

Data File : VV015942.D  
Acq On : 07 May 2020 15:33  
Operator : SY/MD  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

Quant Time: May 08 05:14:27 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri May 08 05:09:03 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 151748   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 147276   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 70555    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 38840    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 36638    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 62480    | 3.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 70.60%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 112351   | 47.84    | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.68%  |
| 24) Chloroform-d               | 4.38   | 84    | 83039    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 52232    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.20% |
| 32) Benzene-d6                 | 5.07   | 84    | 171461   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 55423    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 155444   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 19510    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.00%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 88535    | 48.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.02%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 38007    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.00% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 58522    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3040  | 0.261 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 3421  | 0.291 ug/L   | 92     |
| 5) Vinyl chloride              | 1.32 | 62  | 3250  | 0.289 ug/L # | 67     |
| 6) Bromomethane                | 1.53 | 94  | 1695  | 0.265 ug/L   | 85     |
| 8) Chloroethane                | 1.59 | 64  | 4287  | 0.534 ug/L # | 79     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 3930  | 0.255 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 2798  | 0.321 ug/L   | 91     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 2756  | 0.330 ug/L # | 1      |
| 14) Carbon disulfide           | 2.31 | 76  | 6927  | 0.251 ug/L   | 96     |
| 16) Methylene chloride         | 2.52 | 84  | 3099  | 0.310 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 5510  | 0.254 ug/L # | 86     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 2285  | 0.248 ug/L   | 94     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 4316  | 0.243 ug/L   | 91     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 2381  | 0.246 ug/L   | 93     |
| 23) Bromochloromethane         | 4.29 | 128 | 952   | 0.231 ug/L # | 82     |
| 25) Chloroform                 | 4.41 | 83  | 12108 | 0.619 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 5.16 | 62  | 3468  | 0.288 ug/L # | 93     |

Data File : VV015942.D  
Acq On : 07 May 2020 15:33  
Operator : SY/MD  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

Quant Time: May 08 05:14:27 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri May 08 05:09:03 2020  
Response via : Initial Calibration

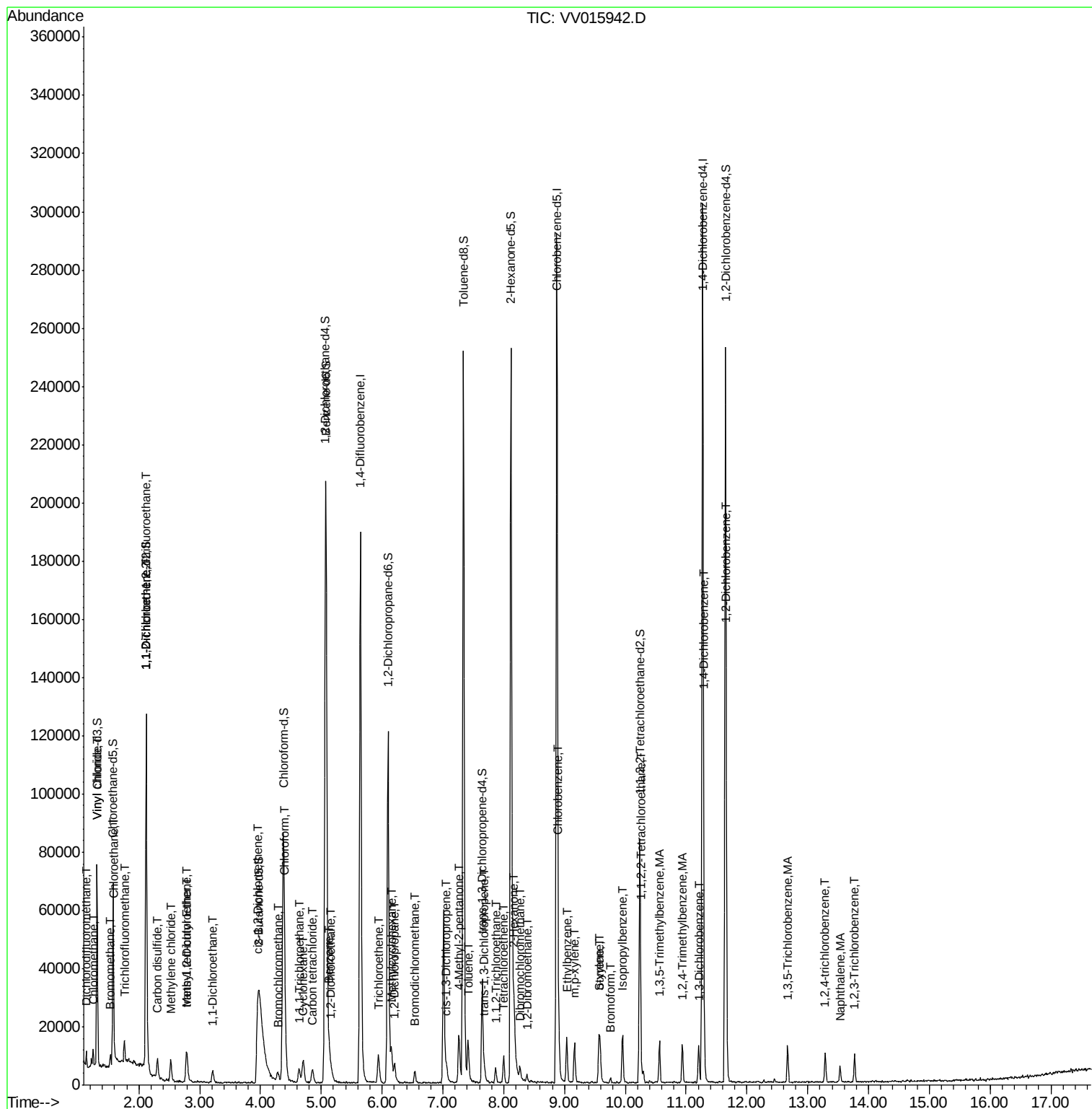
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 29) 1,1,1-Trichloroethane     | 4.64  | 97   | 3884     | 0.239 | ug/L   | 99       |
| 30) Cyclohexane               | 4.70  | 56   | 4206     | 0.258 | ug/L   | 93       |
| 31) Carbon tetrachloride      | 4.85  | 117  | 3343     | 0.239 | ug/L   | 93       |
| 33) Benzene                   | 5.13  | 78   | 9568     | 0.258 | ug/L   | 100      |
| 34) Trichloroethene           | 5.94  | 95   | 2408     | 0.228 | ug/L   | 89       |
| 35) Methylcyclohexane         | 6.15  | 83   | 3942     | 0.246 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 6.21  | 63   | 2584     | 0.274 | ug/L # | 87       |
| 38) Bromodichloromethane      | 6.54  | 83   | 2855     | 0.239 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.06  | 75   | 3399     | 0.255 | ug/L   | 87       |
| 40) 4-Methyl-2-pentanone      | 7.26  | 43   | 13357    | 2.276 | ug/L # | 90       |
| 42) Toluene                   | 7.41  | 91   | 10009    | 0.255 | ug/L   | 88       |
| 43) 1,3,5-Trimethylbenzene    | 10.56 | 105  | 7325     | 0.203 | ug/L # | 100      |
| 44) 1,2,4-Trimethylbenzene    | 10.94 | 105  | 6890     | 0.191 | ug/L # | 100      |
| 46) trans-1,3-Dichloropropene | 7.68  | 75   | 2465     | 0.219 | ug/L   | 87       |
| 47) 1,1,2-Trichloroethane     | 7.87  | 97   | 1567     | 0.249 | ug/L   | 89       |
| 49) Tetrachloroethene         | 8.00  | 164  | 1939     | 0.263 | ug/L   | 93       |
| 50) 2-Hexanone                | 8.17  | 43   | 14668    | 3.535 | ug/L # | 92       |
| 51) Dibromochloromethane      | 8.27  | 129  | 1581     | 0.224 | ug/L   | 95       |
| 52) 1,2-Dibromoethane         | 8.38  | 107  | 1515     | 0.260 | ug/L # | 88       |
| 53) Chlorobenzene             | 8.90  | 112  | 6467     | 0.256 | ug/L   | 96       |
| 54) Ethylbenzene              | 9.04  | 91   | 10058    | 0.225 | ug/L   | 90       |
| 55) m,p-xylene                | 9.16  | 106  | 4131     | 0.250 | ug/L   | 76       |
| 56) o-xylene                  | 9.57  | 106  | 3628     | 0.229 | ug/L   | 85       |
| 57) Styrene                   | 9.59  | 104  | 5736     | 0.217 | ug/L   | 97       |
| 58) Isopropylbenzene          | 9.95  | 105  | 10352    | 0.238 | ug/L   | 98       |
| 60) 1,1,2,2-Tetrachloroethane | 10.26 | 83   | 1952     | 0.291 | ug/L # | 82       |
| 62) Bromoform                 | 9.76  | 173  | 562      | 0.173 | ug/L # | 85       |
| 63) 1,3-Dichlorobenzene       | 11.21 | 146  | 4693     | 0.247 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene       | 11.30 | 146  | 5146     | 0.269 | ug/L   | 98       |
| 66) 1,2-Dichlorobenzene       | 11.67 | 146  | 4534     | 0.264 | ug/L # | 90       |
| 68) 1,3,5-Trichlorobenzene    | 12.67 | 180  | 3453     | 0.248 | ug/L   | 96       |
| 69) 1,2,4-trichlorobenzene    | 13.29 | 180  | 3142     | 0.263 | ug/L   | 97       |
| 70) Naphthalene               | 13.53 | 128  | 4828     | 0.254 | ug/L # | 89       |
| 71) 1,2,3-Trichlorobenzene    | 13.77 | 180  | 2705     | 0.257 | ug/L   | 94       |

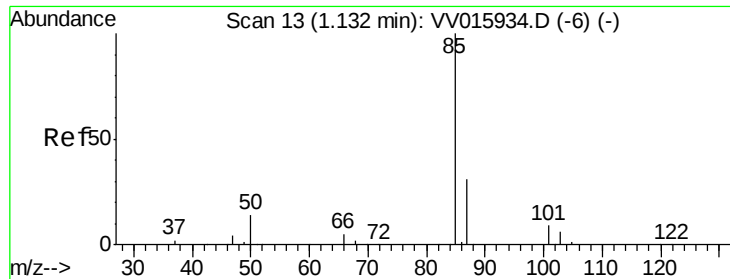
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV015942.D  
Acq On : 07 May 2020 15:33  
Operator : SY/MD  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

Quant Time: May 08 05:14:27 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri May 08 05:09:03 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.261 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

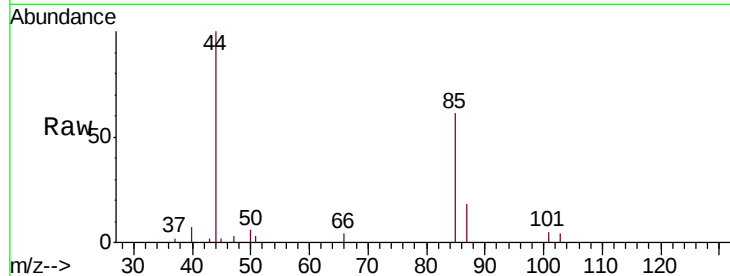
MDL04

Tgt Ion: 85 Resp: 3040

Ion Ratio Lower Upper

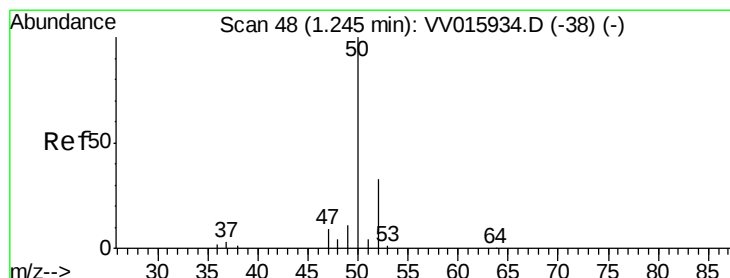
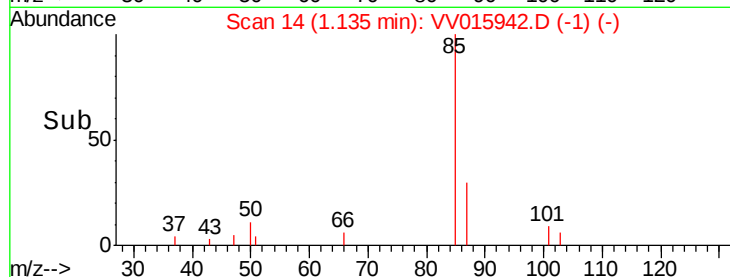
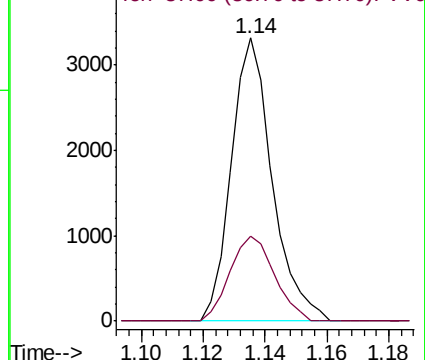
85 100

87 32.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV015934.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015934.D (-6) (-)



#3

Chloromethane

Concen: 0.291 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV015942.D

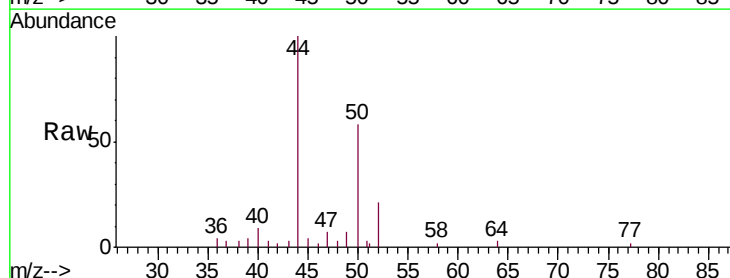
Acq: 07 May 2020 15:33

Tgt Ion: 50 Resp: 3421

Ion Ratio Lower Upper

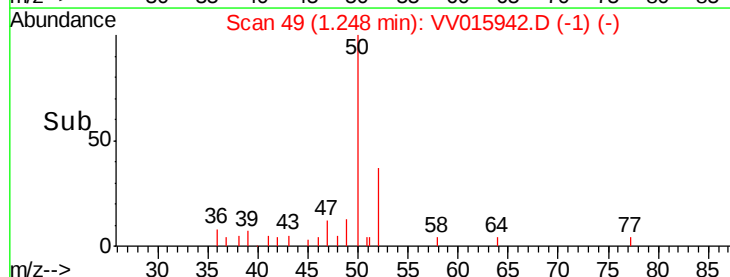
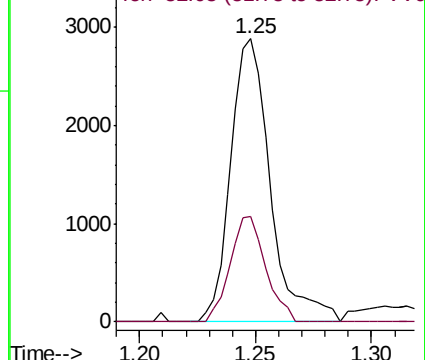
50 100

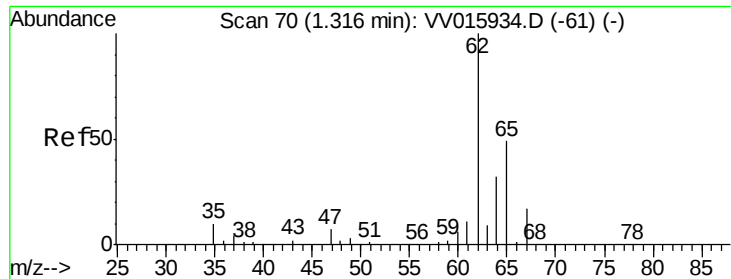
52 37.1 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV015934.D (-38) (-)

Ion 52.05 (51.75 to 52.75): VV015934.D (-38) (-)





#5

Vinyl chloride

Concen: 0.289 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

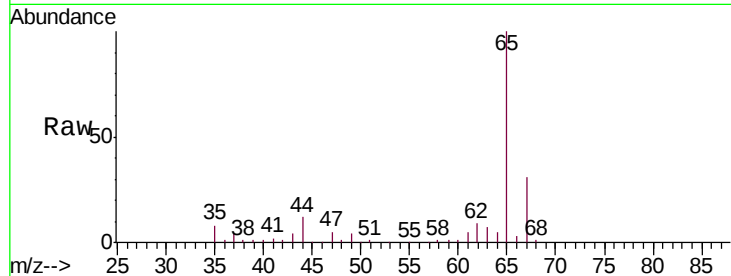
MDL04

Tgt Ion: 62 Resp: 3250

Ion Ratio Lower Upper

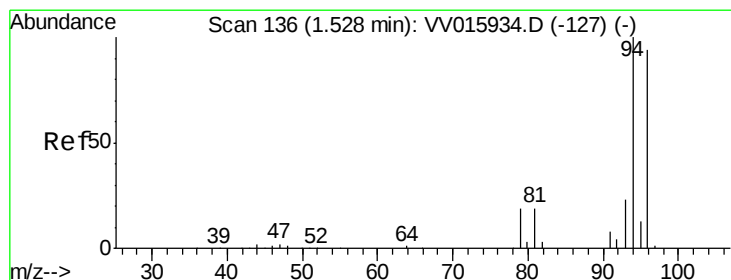
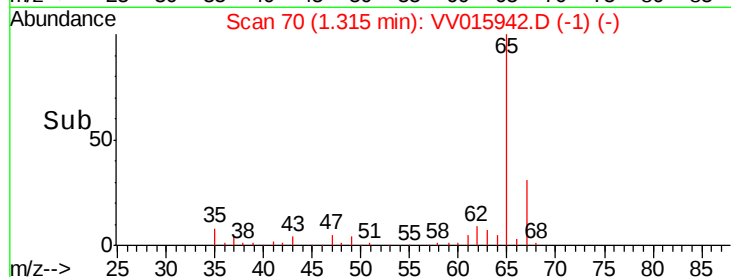
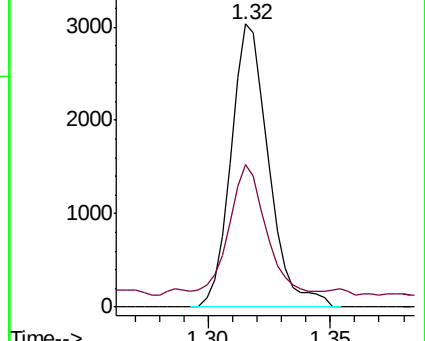
62 100

64 50.2 22.4 41.6#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.265 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV015942.D

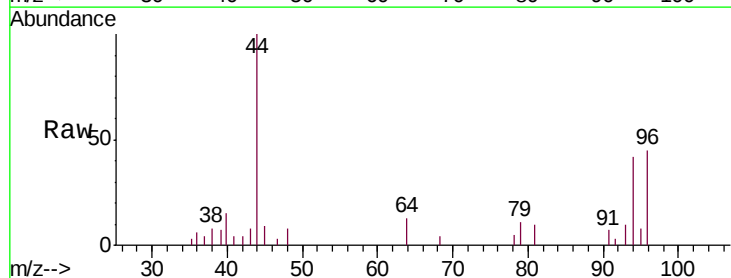
Acq: 07 May 2020 15:33

Tgt Ion: 94 Resp: 1695

Ion Ratio Lower Upper

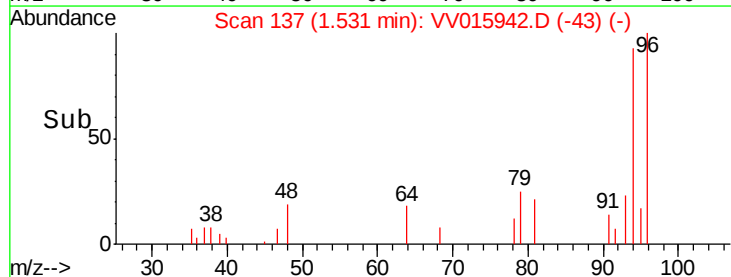
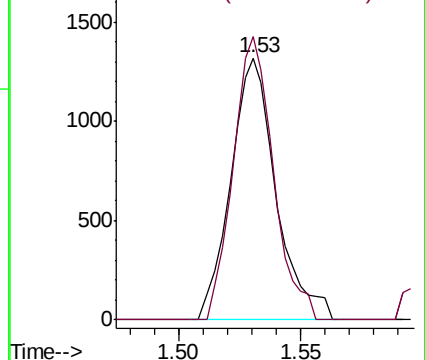
94 100

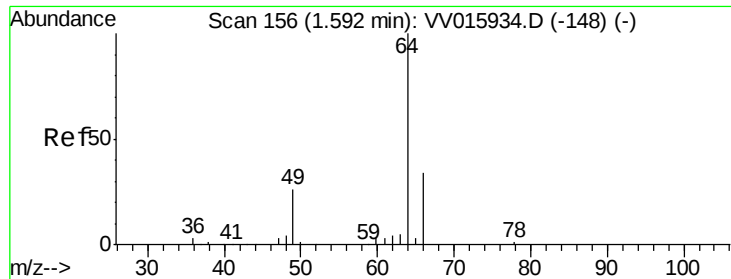
96 108.0 65.4 121.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.534 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

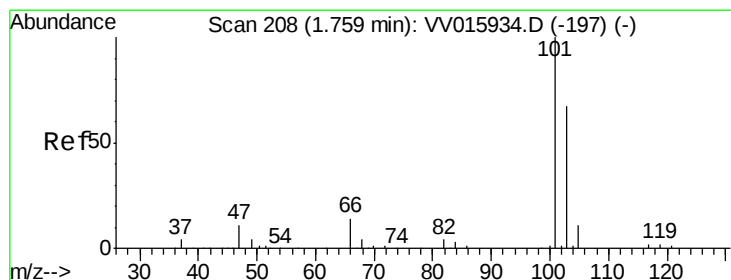
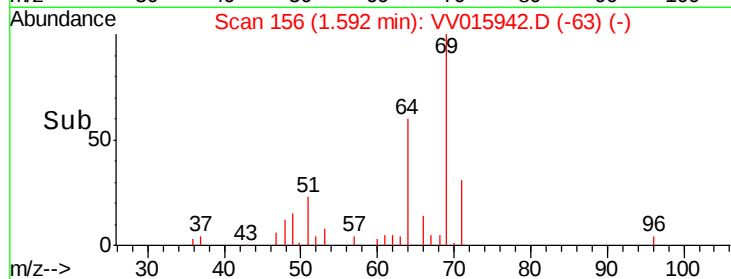
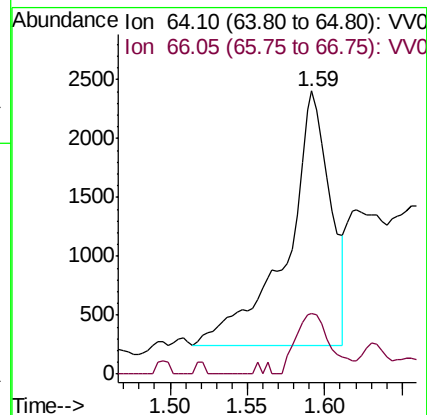
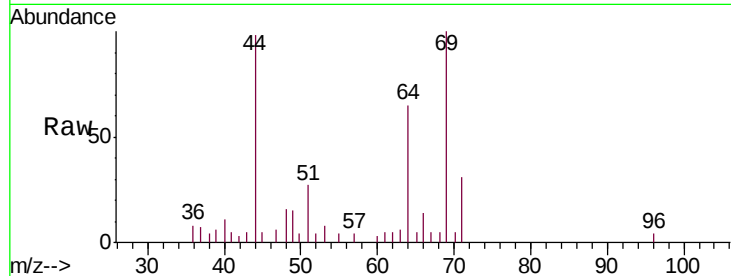
MDL04

Tgt Ion: 64 Resp: 4287

Ion Ratio Lower Upper

64 100

66 21.5 23.6 43.8#



#9

Trichlorofluoromethane

Concen: 0.255 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV015942.D

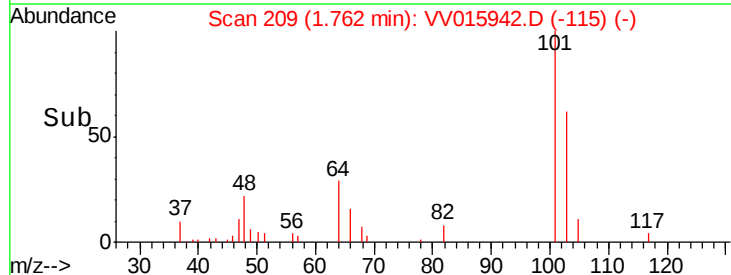
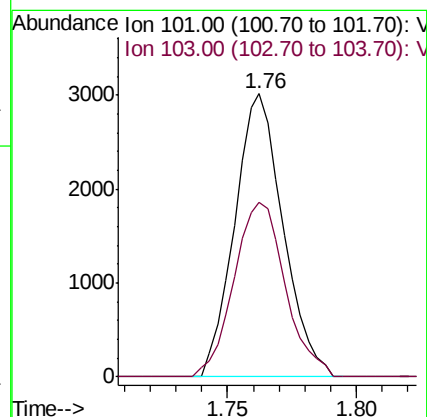
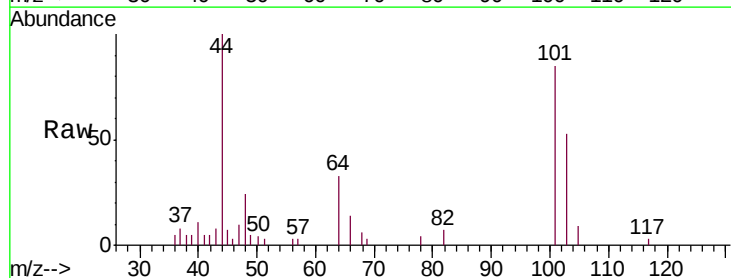
Acq: 07 May 2020 15:33

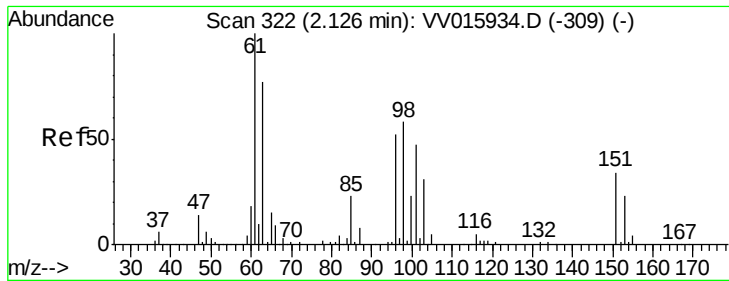
Tgt Ion: 101 Resp: 3930

Ion Ratio Lower Upper

101 100

103 65.5 51.4 77.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.321 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

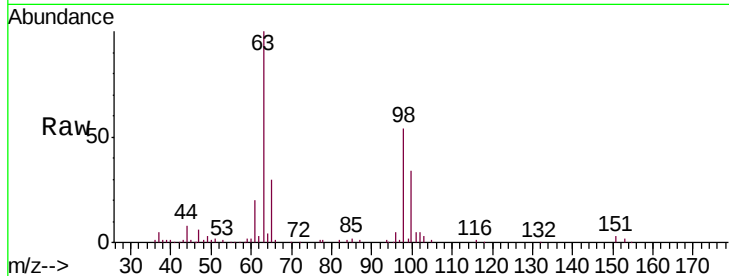
Tgt Ion:101 Resp: 2798

Ion Ratio Lower Upper

101 100

85 42.6 35.7 53.5

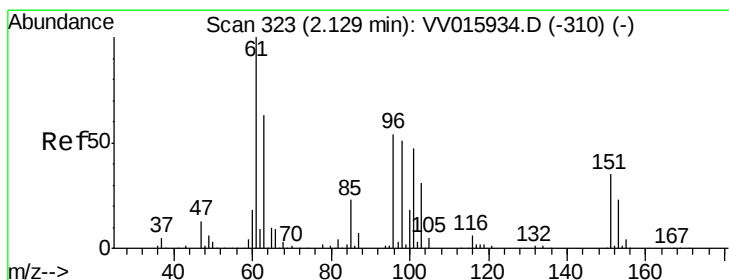
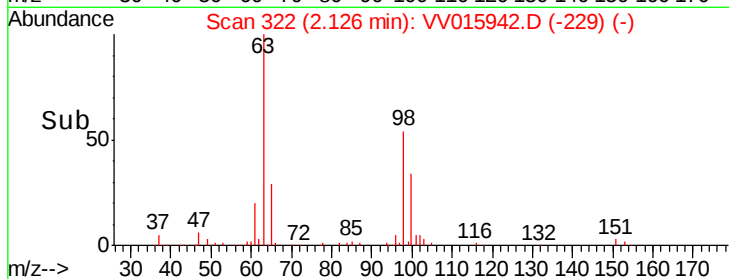
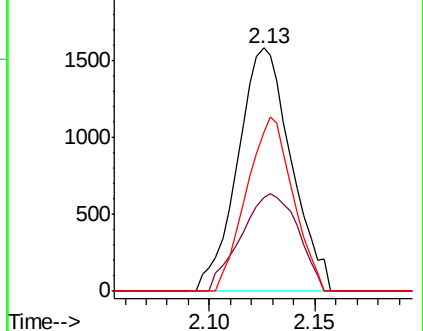
151 62.1 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.330 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

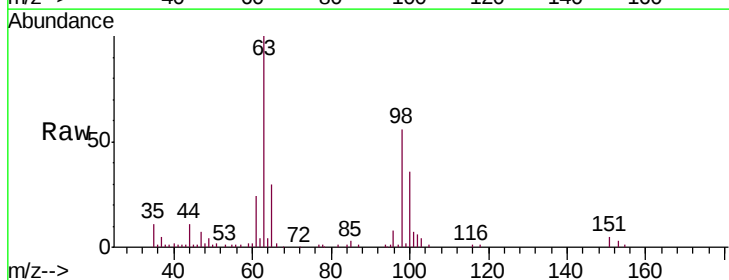
Tgt Ion: 96 Resp: 2756

Ion Ratio Lower Upper

96 100

61 318.6 139.9 259.7#

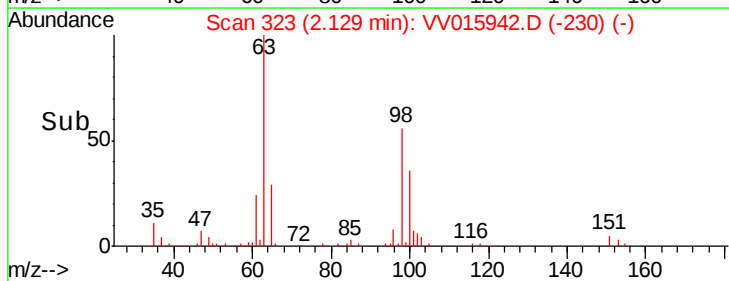
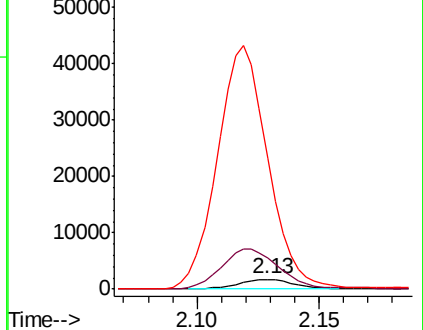
63 1323.9 106.4 197.6#

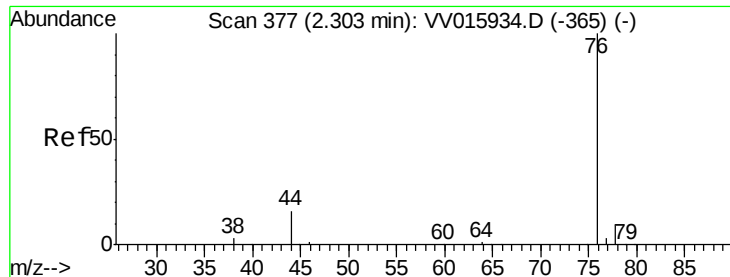


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.251 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

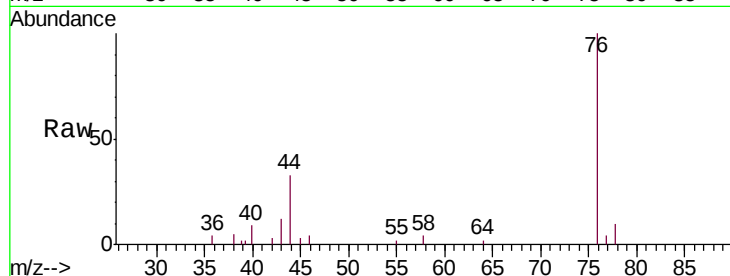
MDL04

Tgt Ion: 76 Resp: 6927

Ion Ratio Lower Upper

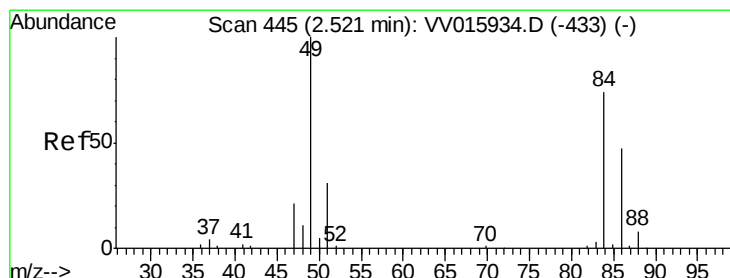
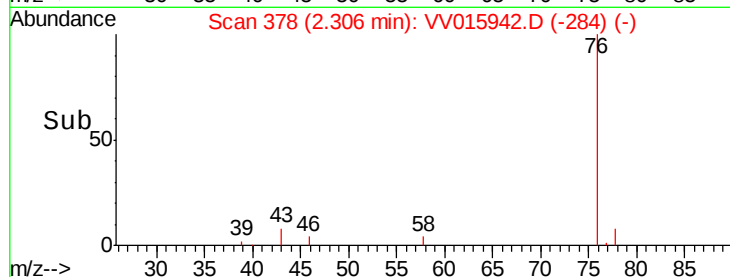
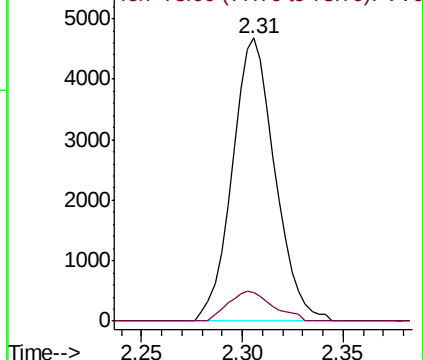
76 100

78 10.3 7.0 10.6



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 0.310 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

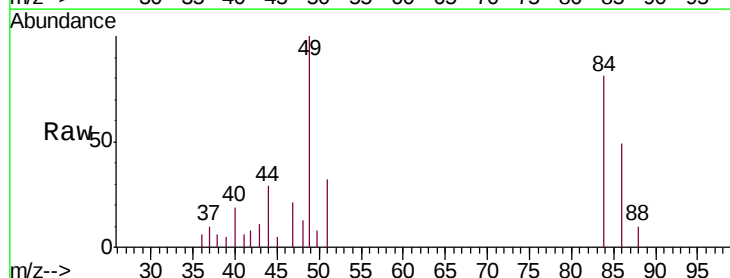
Tgt Ion: 84 Resp: 3099

Ion Ratio Lower Upper

84 100

86 60.6 45.6 84.8

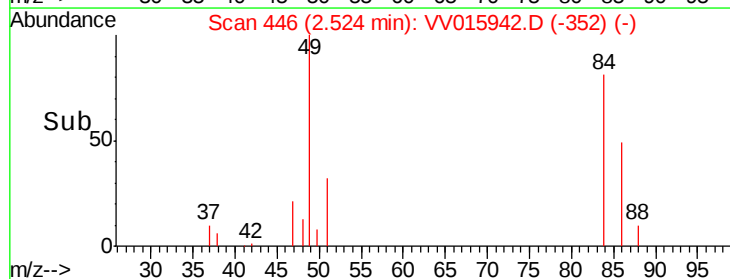
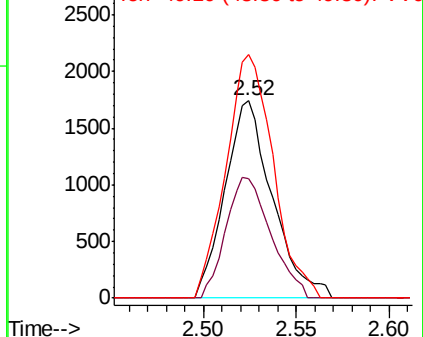
49 133.9 93.6 173.8

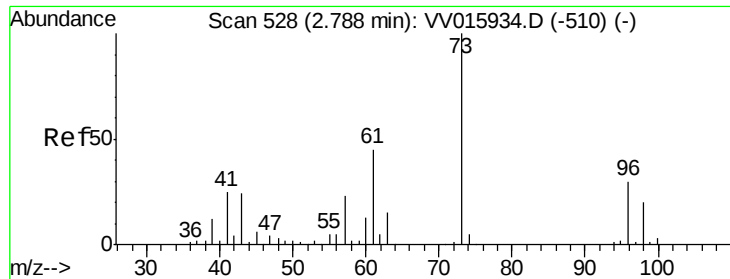


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

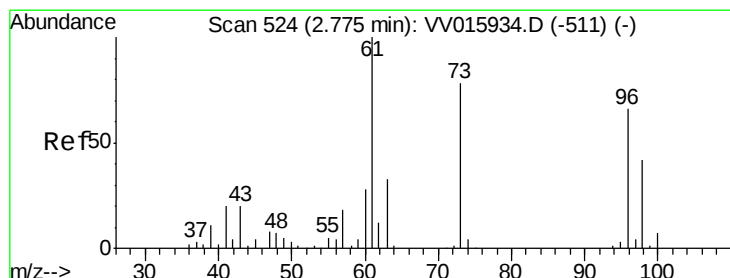
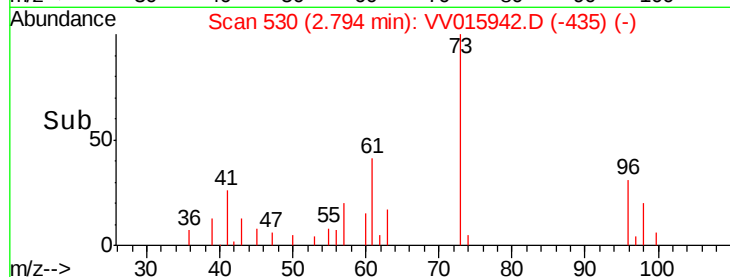
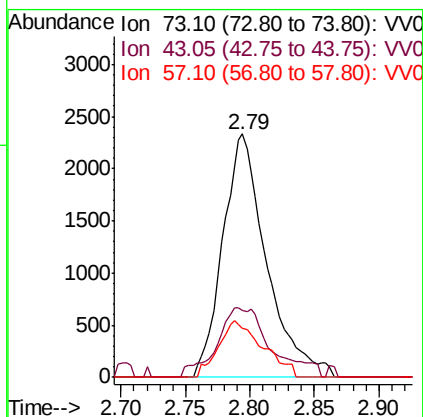
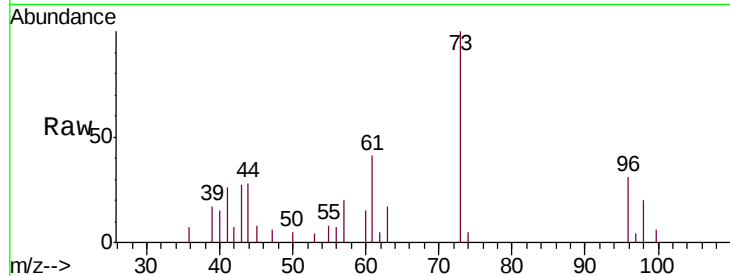




#17  
Methyl tert-butyl Ether  
Concen: 0.254 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.01 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

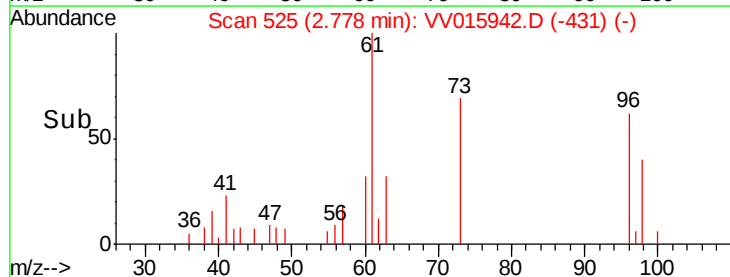
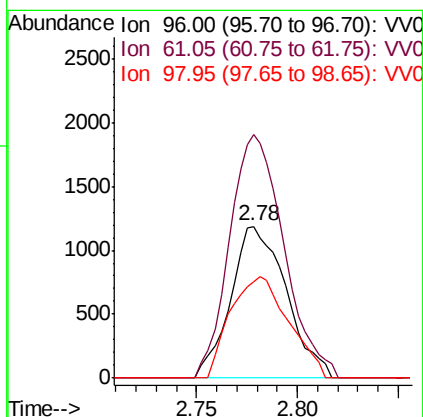
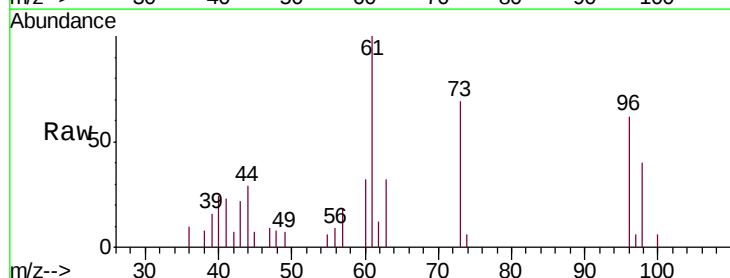
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

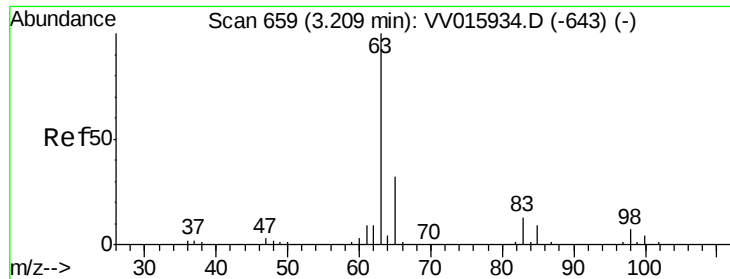
Tgt Ion: 73 Resp: 5510  
Ion Ratio Lower Upper  
73 100  
43 35.4 18.8 28.2#  
57 23.6 17.8 26.6



#18  
trans-1,2-Dichloroethene  
Concen: 0.248 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

Tgt Ion: 96 Resp: 2285  
Ion Ratio Lower Upper  
96 100  
61 160.4 105.3 195.5  
98 63.6 44.0 81.6

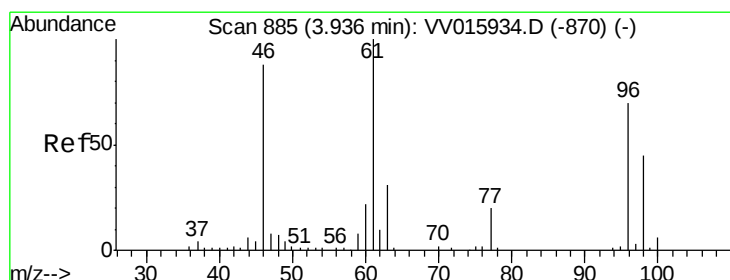
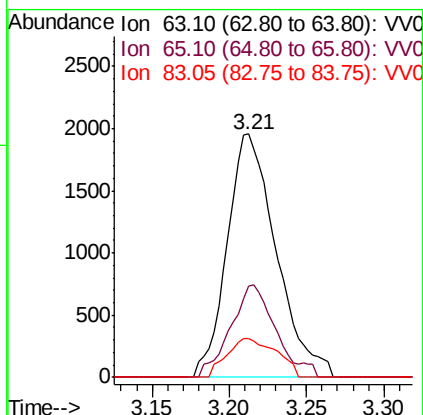
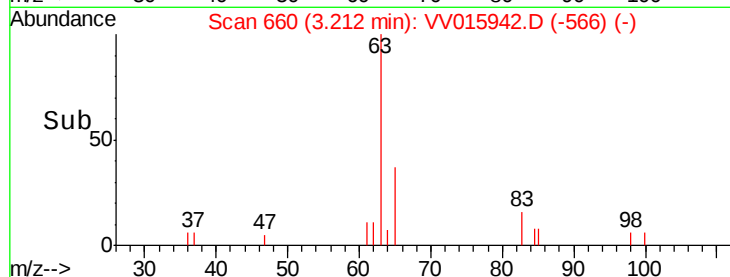
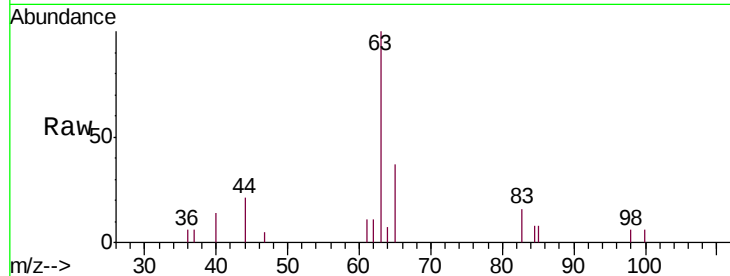




#19  
 1,1-Dichloroethane  
 Concen: 0.243 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

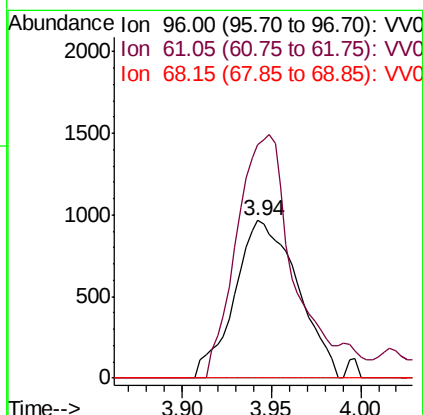
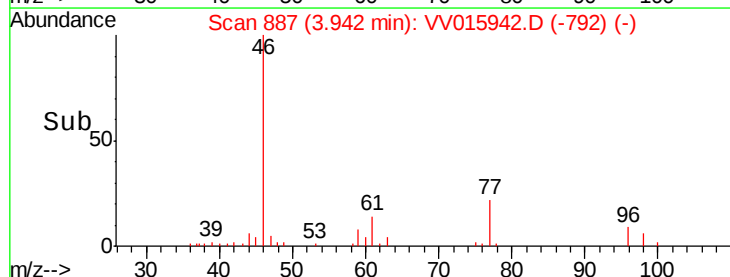
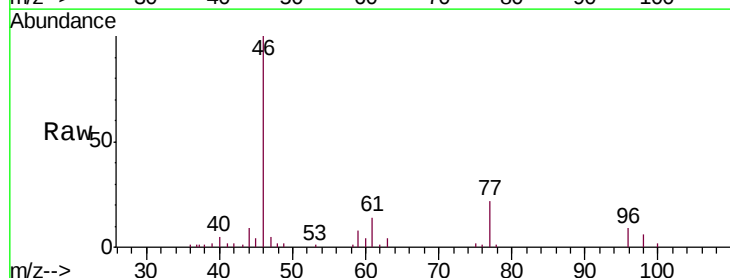
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL04

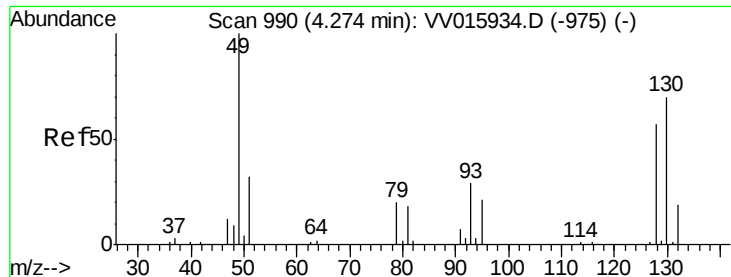
Tgt Ion: 63 Resp: 4316  
 Ion Ratio Lower Upper  
 63 100  
 65 37.5 22.0 41.0  
 83 15.9 9.8 18.2



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.246 ug/L  
 RT: 3.94 min Scan# 887  
 Delta R.T. 0.01 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion: 96 Resp: 2381  
 Ion Ratio Lower Upper  
 96 100  
 61 147.6 97.2 180.6  
 68 0.0 0.0 0.0

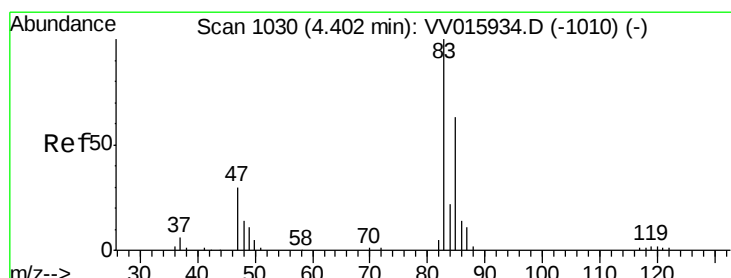
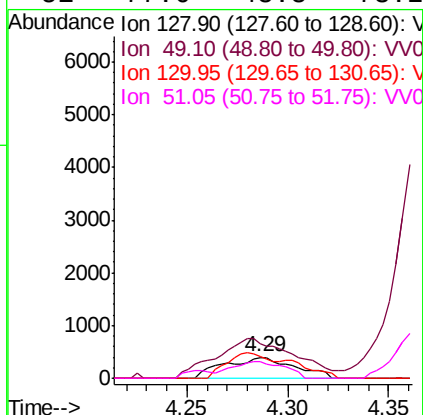
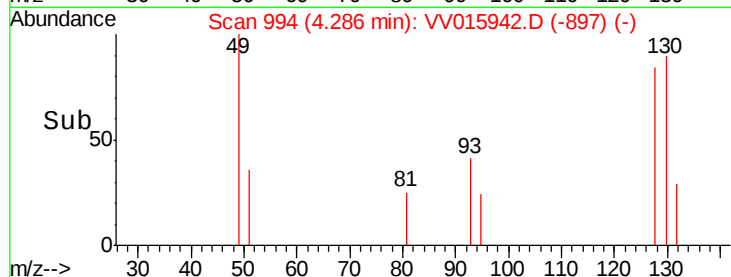
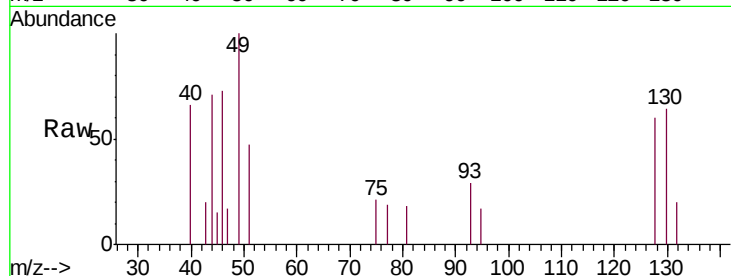




#23  
Bromochloromethane  
Concen: 0.231 ug/L  
RT: 4.29 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

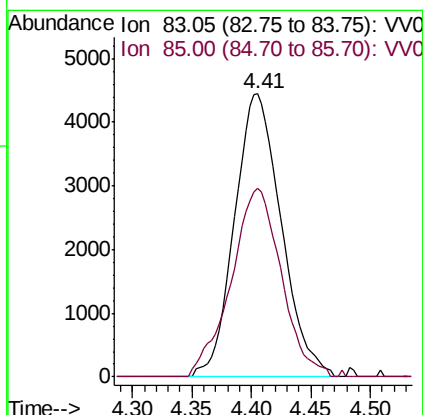
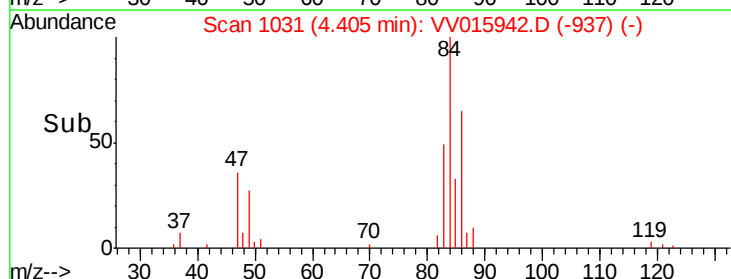
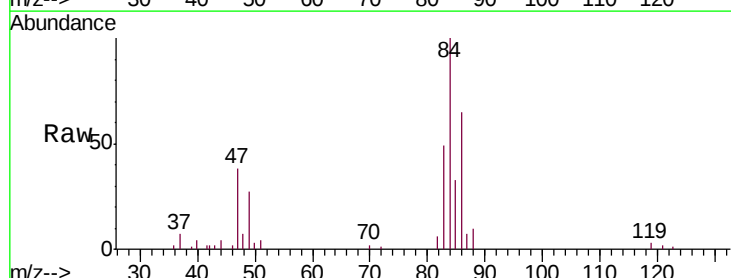
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

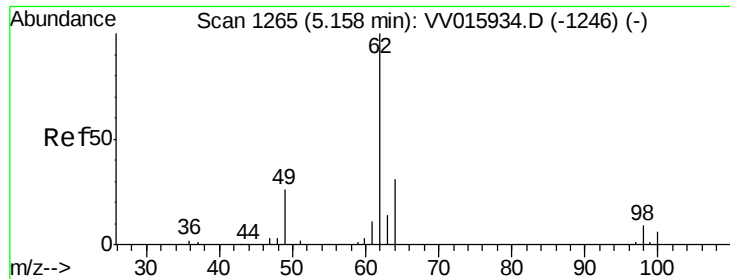
Tgt Ion:128 Resp: 952  
Ion Ratio Lower Upper  
128 100  
49 166.0 131.3 243.8  
130 106.5 91.8 170.4  
51 77.6 48.8 73.2#



#25  
Chloroform  
Concen: 0.619 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

Tgt Ion: 83 Resp: 12108  
Ion Ratio Lower Upper  
83 100  
85 66.8 45.7 84.9

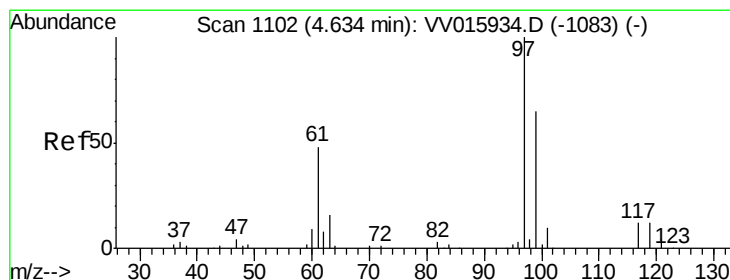
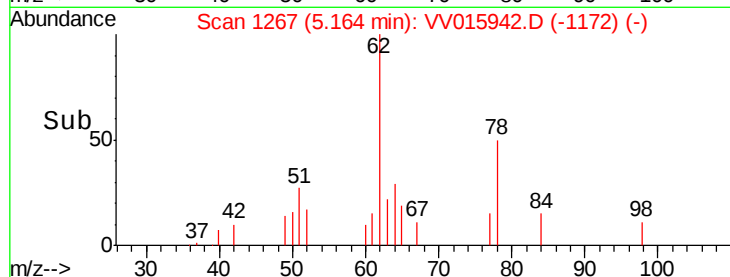
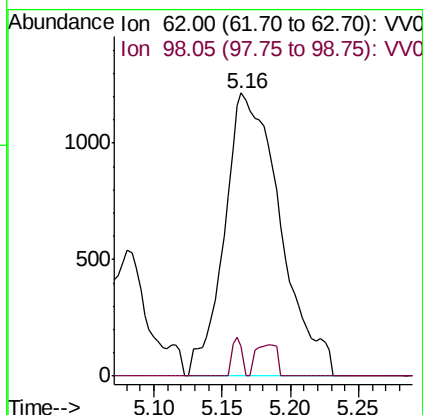
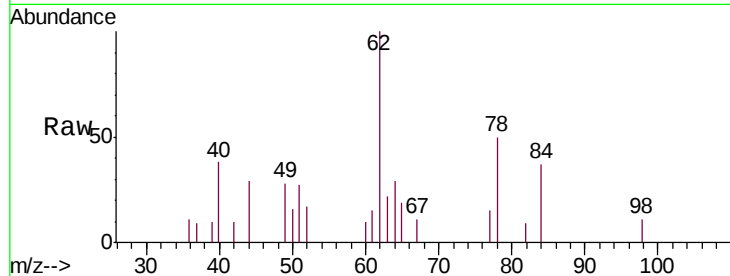




#27  
 1,2-Dichloroethane  
 Concen: 0.288 ug/L  
 RT: 5.16 min Scan# 1267  
 Delta R.T. 0.01 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

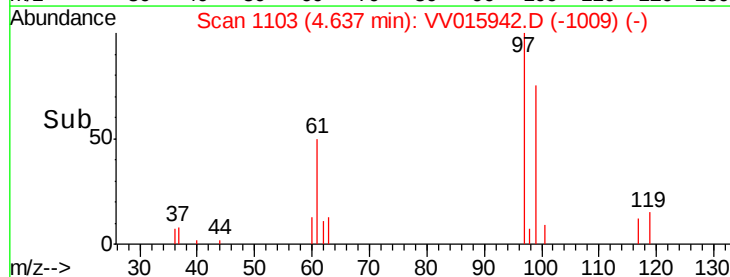
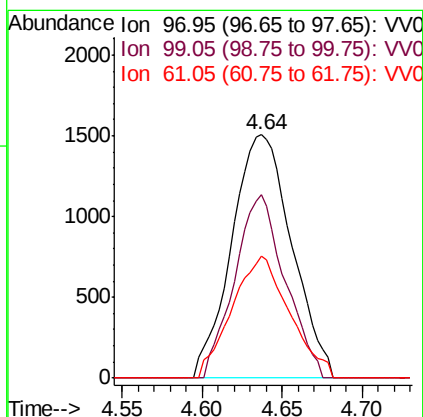
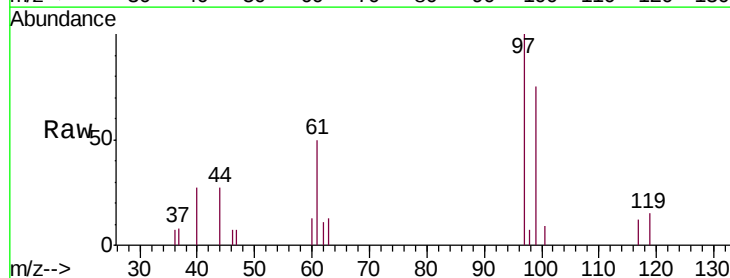
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL04

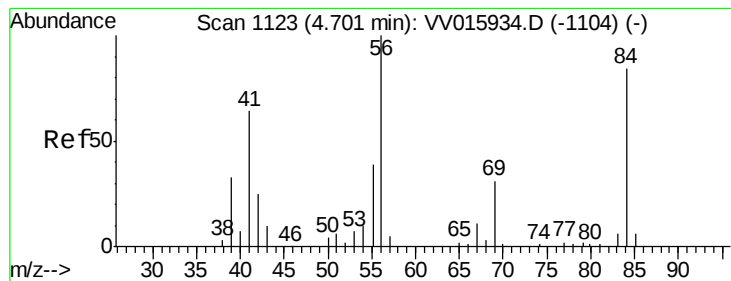
Tgt Ion: 62 Resp: 3468  
 Ion Ratio Lower Upper  
 62 100  
 98 10.8 6.7 10.1#



#29  
 1,1,1-Trichloroethane  
 Concen: 0.239 ug/L  
 RT: 4.64 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion: 97 Resp: 3884  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 50.7 76.1  
 61 48.0 38.8 58.2





#30

Cyclohexane

Concen: 0.258 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

MDL04

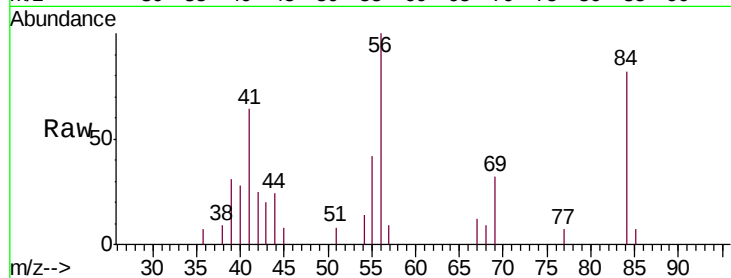
Tgt Ion: 56 Resp: 4206

Ion Ratio Lower Upper

56 100

69 29.9 24.2 36.2

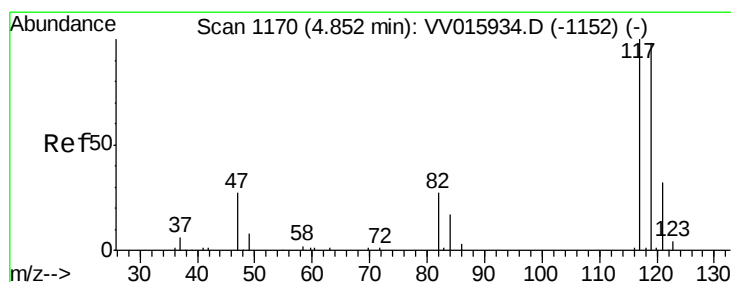
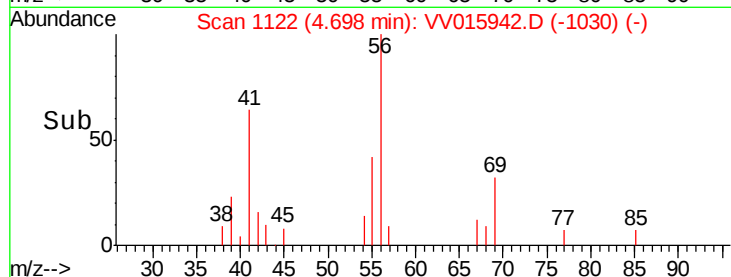
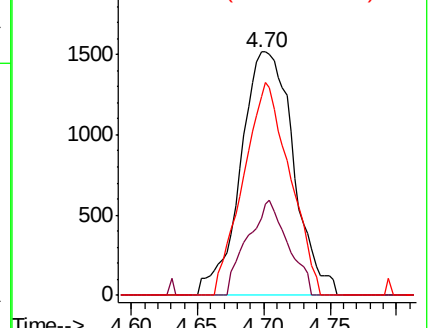
84 76.8 68.3 102.5



Abundance Ion 56.10 (55.80 to 56.80): VV015942.D (-1030) (-)

Ion 69.15 (68.85 to 69.85): VV015942.D (-1030) (-)

Ion 84.15 (83.85 to 84.85): VV015942.D (-1030) (-)



#31

Carbon tetrachloride

Concen: 0.239 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV015942.D

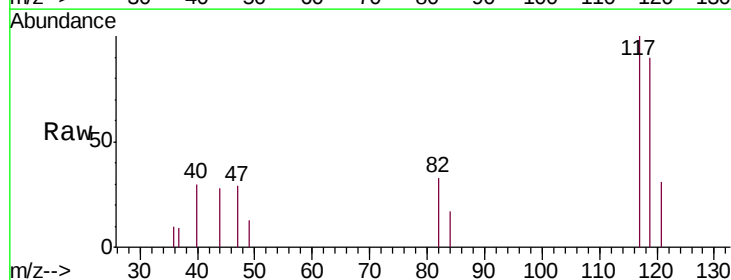
Acq: 07 May 2020 15:33

Tgt Ion: 117 Resp: 3343

Ion Ratio Lower Upper

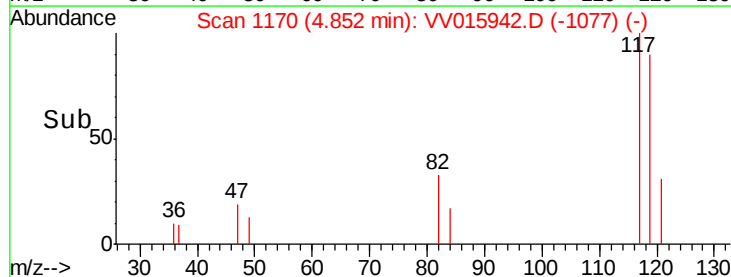
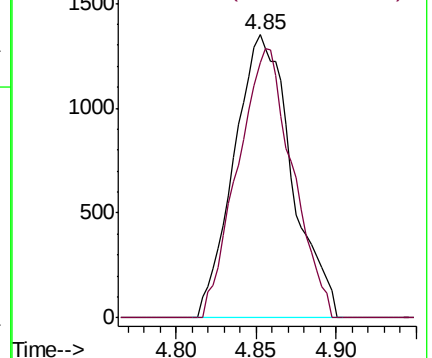
117 100

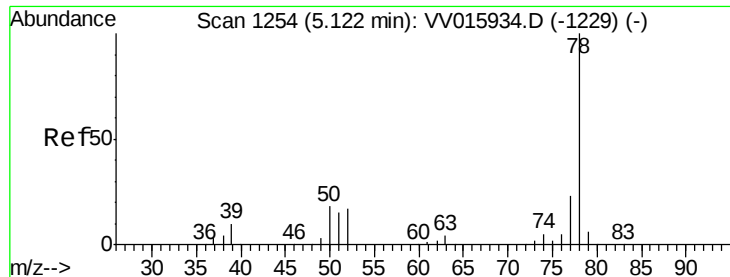
119 90.1 77.3 115.9



Abundance Ion 116.90 (116.60 to 117.60): VV015942.D (-1077) (-)

Ion 118.90 (118.60 to 119.60): VV015942.D (-1077) (-)





#33

Benzene

Concen: 0.258 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

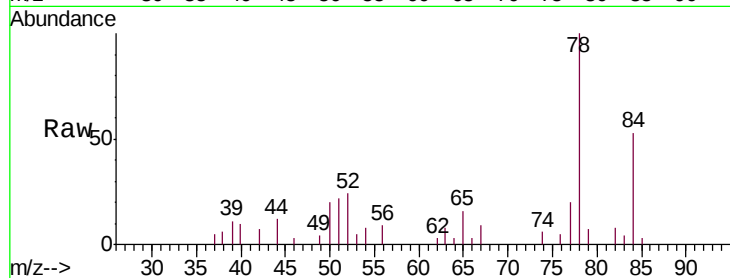
Instrument :

MSVOA\_V

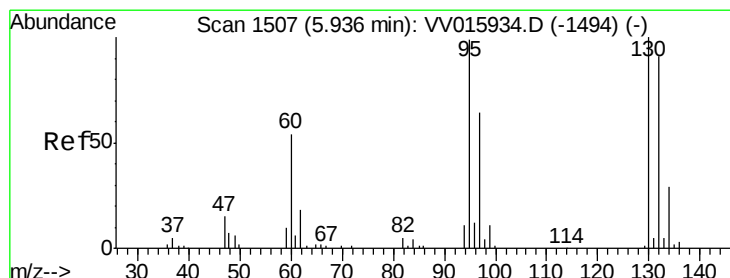
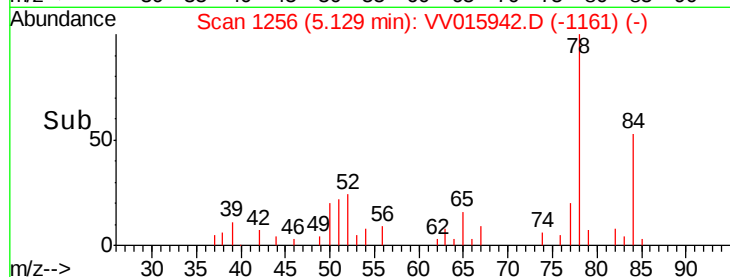
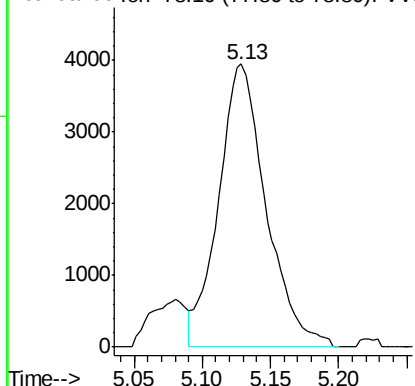
ClientSampleId :

MDL04

Tgt Ion: 78 Resp: 9568



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.228 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Tgt Ion: 95 Resp: 2408

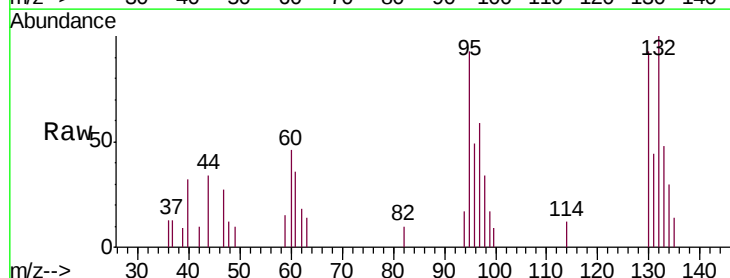
Ion Ratio Lower Upper

95 100

97 63.6 43.3 80.5

132 107.7 60.3 112.1

130 100.3 66.0 122.6

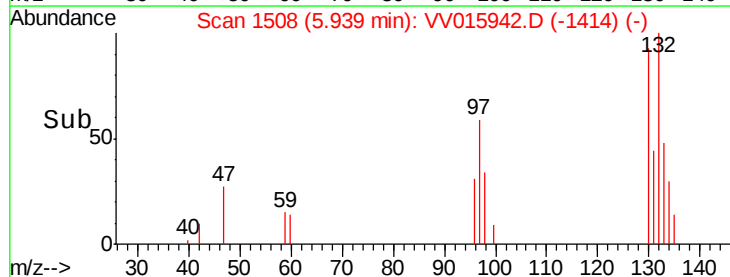
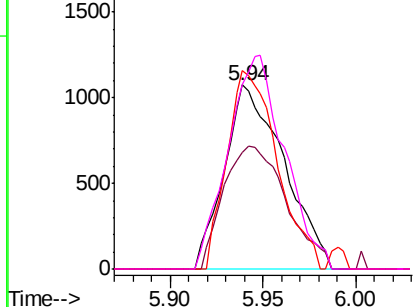


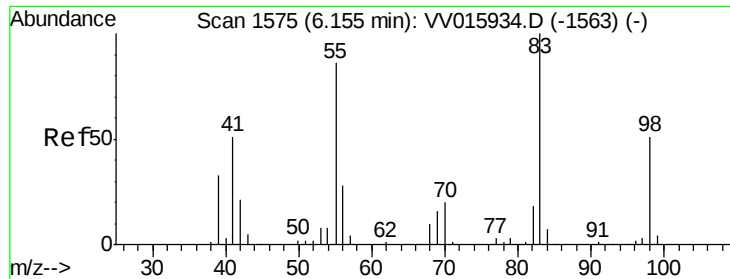
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

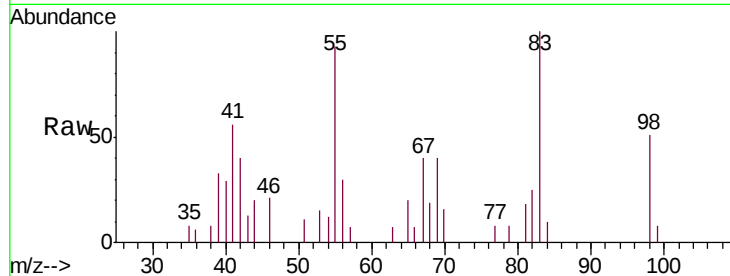




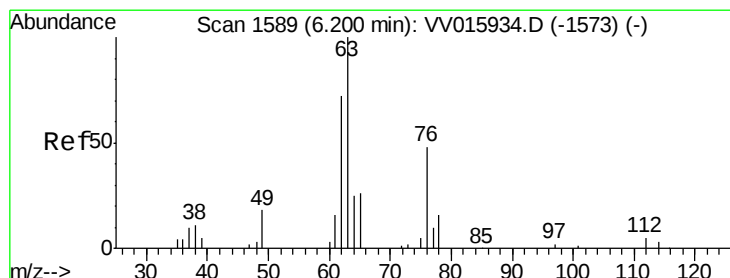
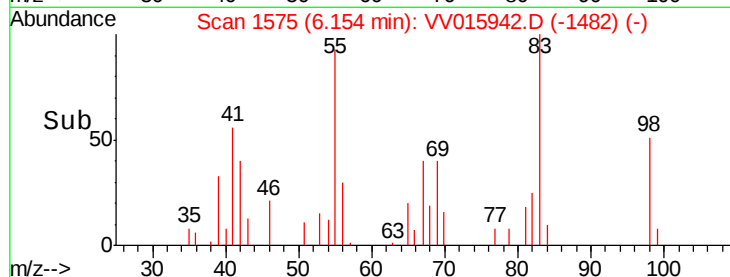
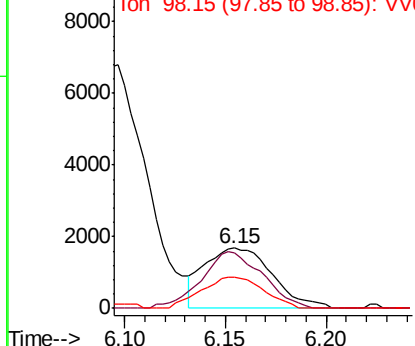
#35  
Methylcyclohexane  
Concen: 0.246 ug/L  
RT: 6.15 min Scan# 1575  
Delta R.T. -0.00 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL04

Tgt Ion: 83 Resp: 3942  
Ion Ratio Lower Upper  
83 100  
55 84.3 66.2 99.2  
98 47.4 37.9 56.9

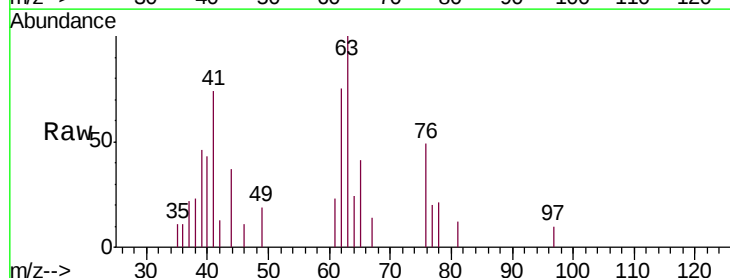


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

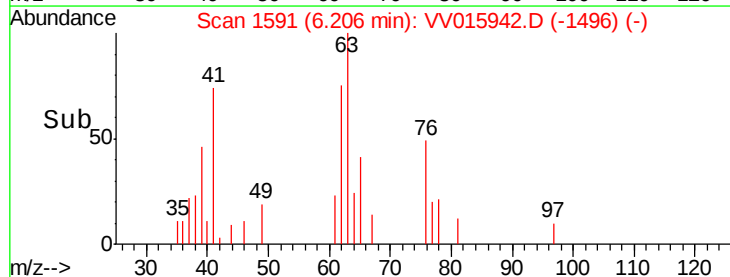
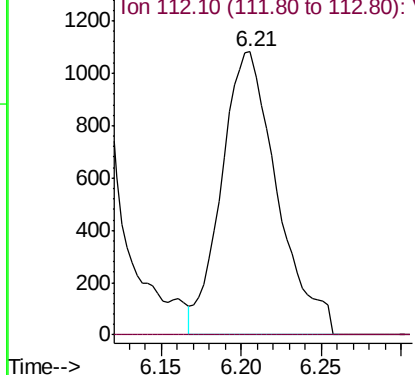


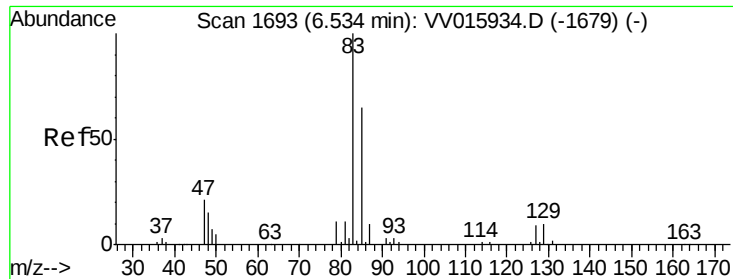
#37  
1,2-Dichloropropane  
Concen: 0.274 ug/L  
RT: 6.21 min Scan# 1591  
Delta R.T. 0.01 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

Tgt Ion: 63 Resp: 2584  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.0#



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





#38

Bromodichloromethane

Concen: 0.239 ug/L

RT: 6.54 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

MDL04

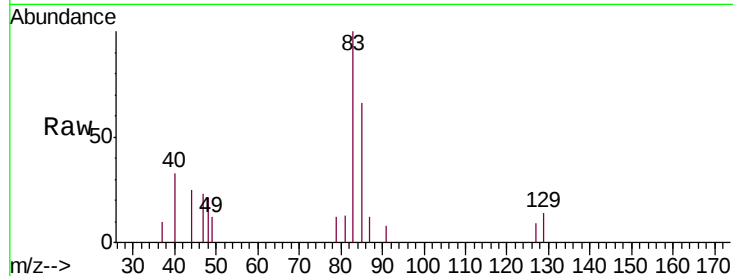
Tgt Ion: 83 Resp: 2855

Ion Ratio Lower Upper

83 100

85 65.6 45.5 84.5

127 9.3 6.2 9.4

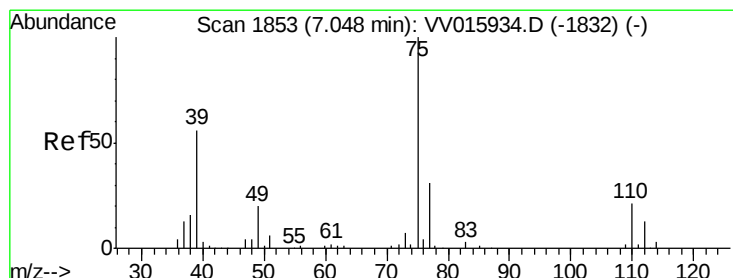
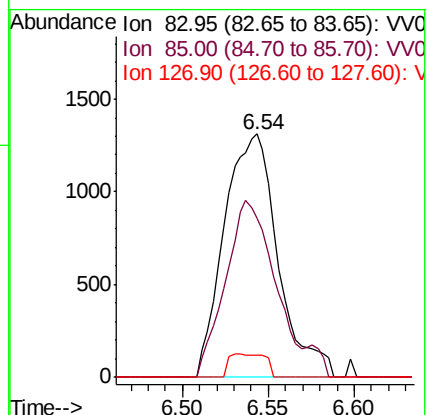
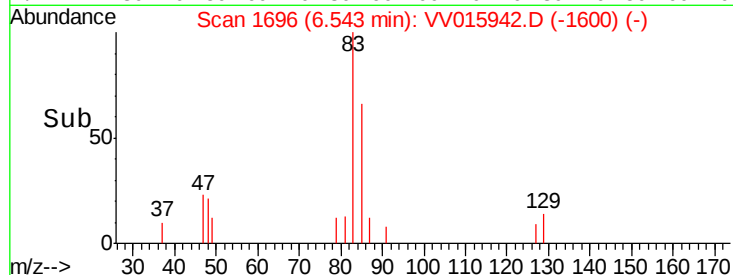


Abundance Ion 82.95 (82.65 to 83.65): VV015942.D (-1600) (-)

Ion 85.00 (84.70 to 85.70): VV015942.D (-1600) (-)

Ion 126.90 (126.60 to 127.60): VV015942.D (-1600) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.255 ug/L

RT: 7.06 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VV015942.D

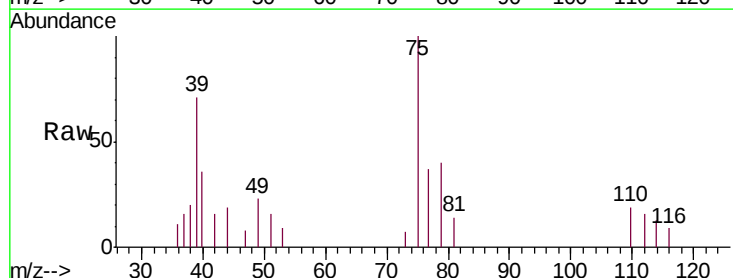
Acq: 07 May 2020 15:33

Tgt Ion: 75 Resp: 3399

Ion Ratio Lower Upper

75 100

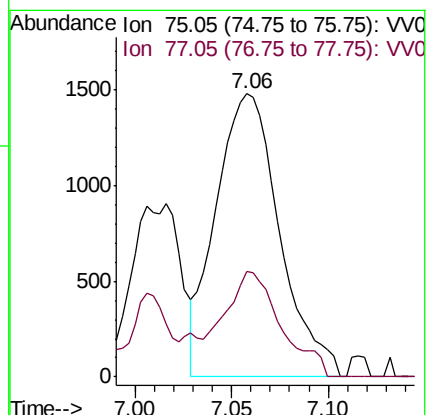
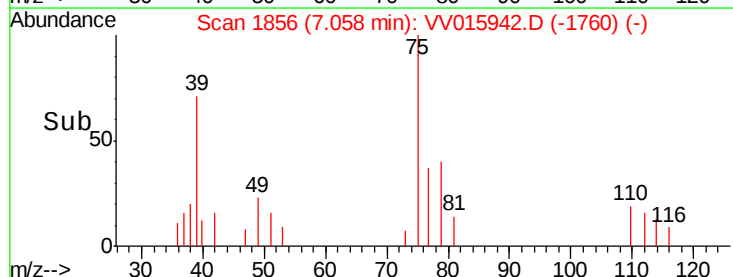
77 37.4 21.3 39.5

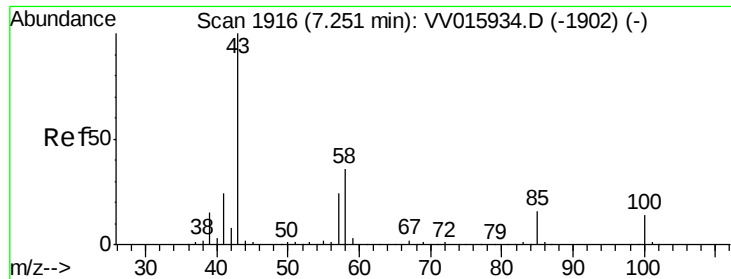


Abundance Ion 75.05 (74.75 to 75.75): VV015942.D (-1760) (-)

Ion 77.05 (76.75 to 77.75): VV015942.D (-1760) (-)

Time-->

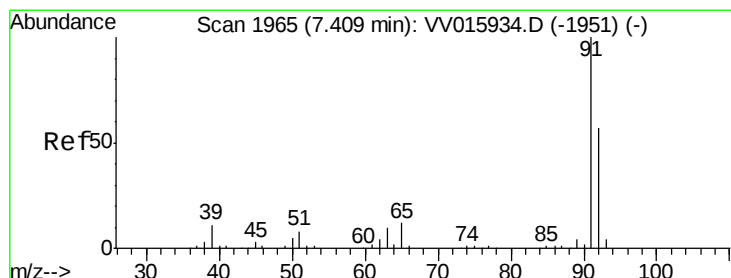
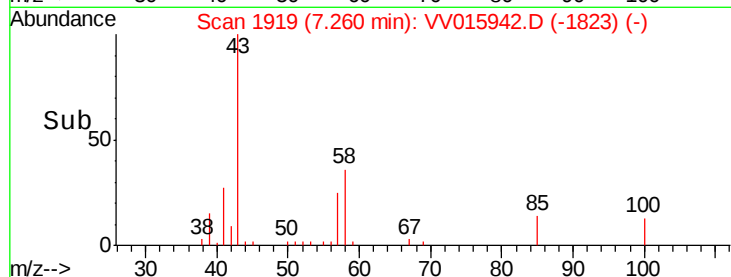
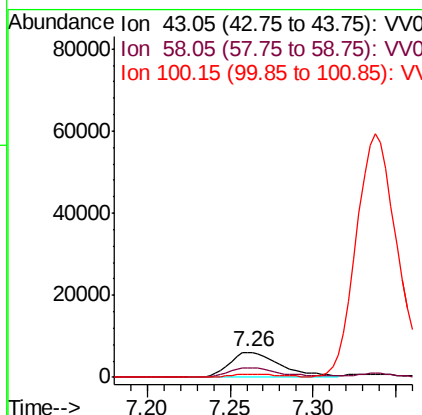
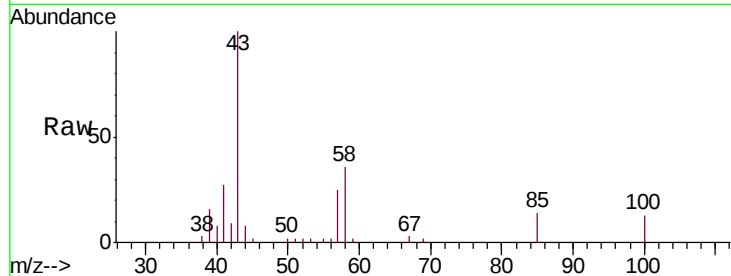




#40  
4-Methyl-2-pentanone  
Concen: 2.276 ug/L  
RT: 7.26 min Scan# 1919  
Delta R.T. 0.01 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

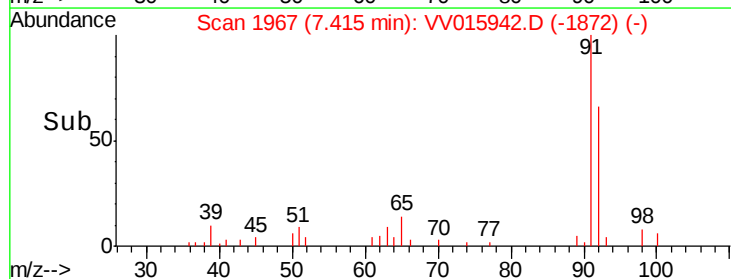
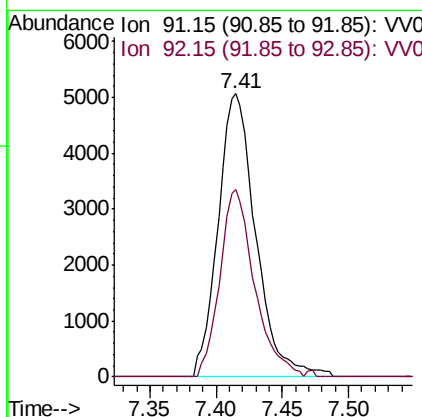
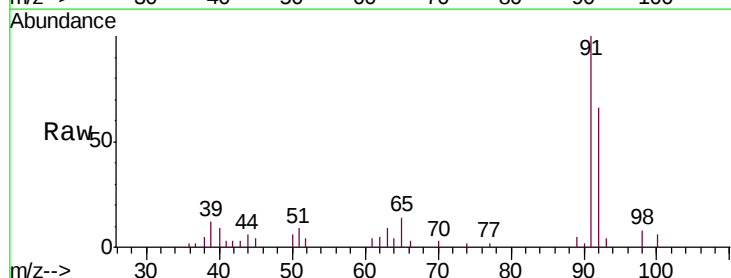
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL04

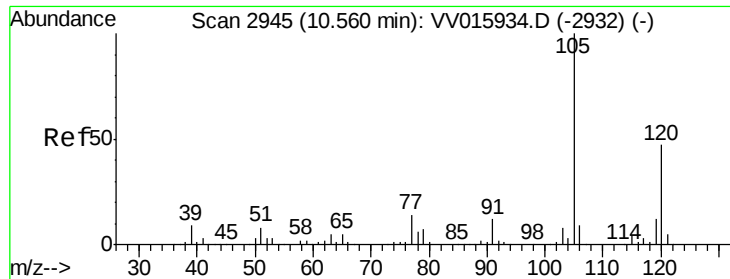
Tgt Ion: 43 Resp: 13357  
Ion Ratio Lower Upper  
43 100  
58 37.2 29.0 43.4  
100 0.0 10.9 16.3#



#42  
Toluene  
Concen: 0.255 ug/L  
RT: 7.41 min Scan# 1967  
Delta R.T. 0.01 min  
Lab File: VV015942.D  
Acq: 07 May 2020 15:33

Tgt Ion: 91 Resp: 10009  
Ion Ratio Lower Upper  
91 100  
92 66.4 40.1 74.5

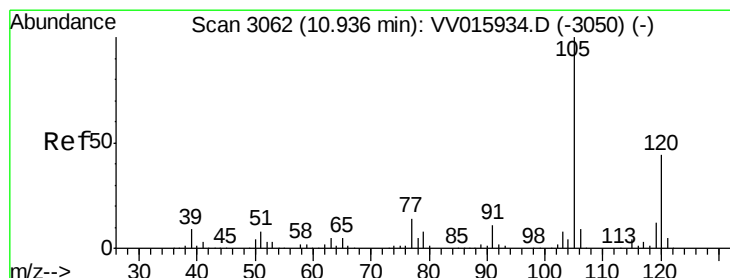
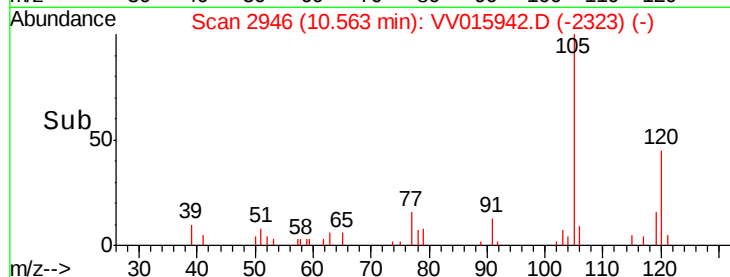
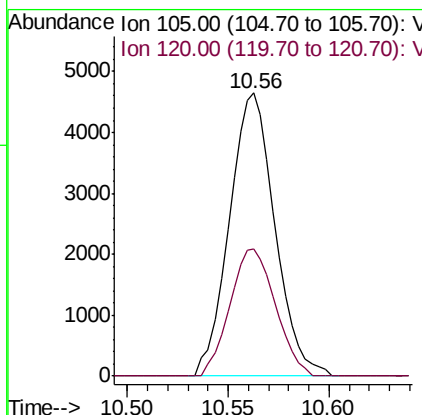
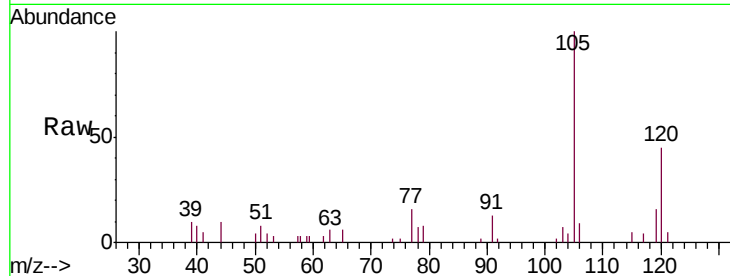




#43  
 1,3,5-Trimethylbenzene  
 Concen: 0.203 ug/L  
 RT: 10.56 min Scan# 2946  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

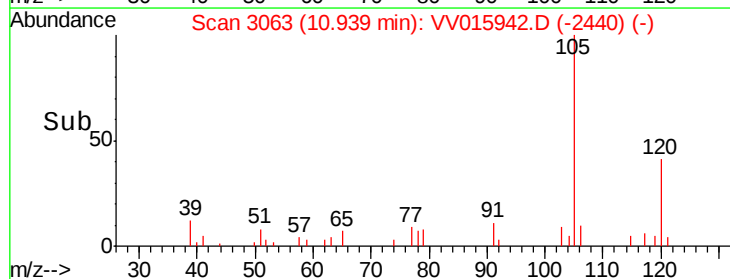
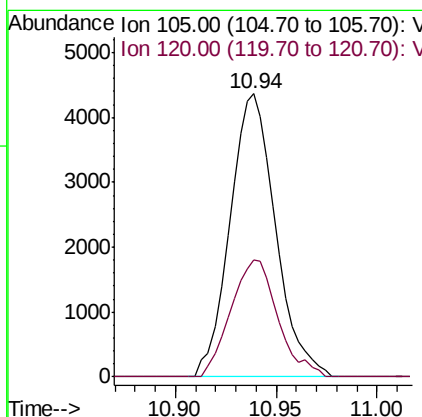
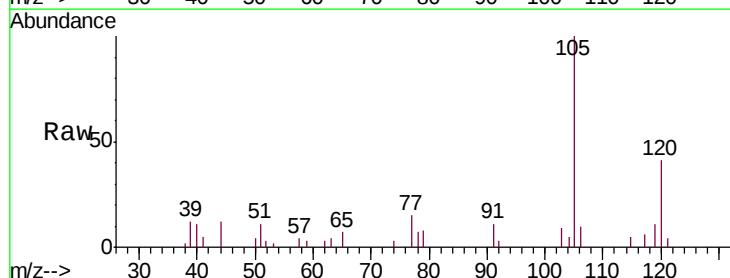
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL04

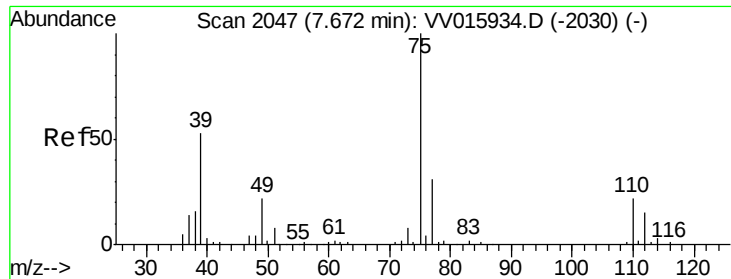
Tgt Ion:105 Resp: 7325  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 0.0 0.0#



#44  
 1,2,4-Trimethylbenzene  
 Concen: 0.191 ug/L  
 RT: 10.94 min Scan# 3063  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion:105 Resp: 6890  
 Ion Ratio Lower Upper  
 105 100  
 120 42.6 0.0 0.0#





#46

trans-1,3-Dichloropropene

Concen: 0.219 ug/L

RT: 7.68 min Scan# 2051

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

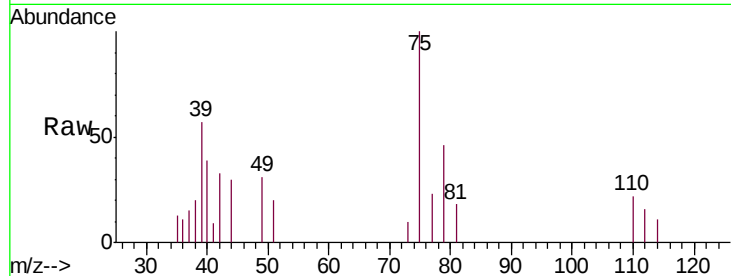
MDL04

Tgt Ion: 75 Resp: 2465

Ion Ratio Lower Upper

75 100

77 23.3 21.3 39.6



Abundance Ion 75.05 (74.75 to 75.75): VV015934.D (-2030) (-)

Ion 77.05 (76.75 to 77.75): VV015934.D (-2030) (-)

7.68

1500

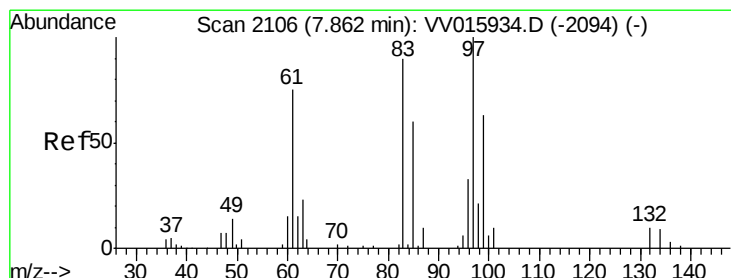
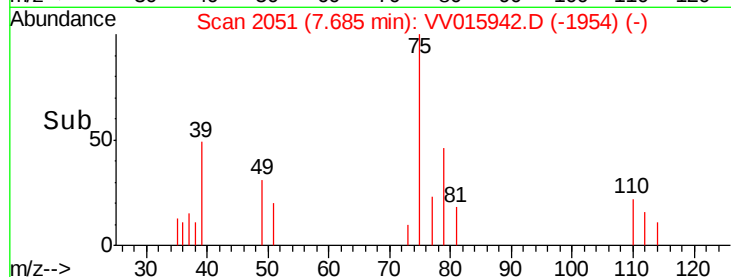
1000

500

0

7.65 7.70 7.75

Time-->



#47

1,1,2-Trichloroethane

Concen: 0.249 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Tgt Ion: 97 Resp: 1567

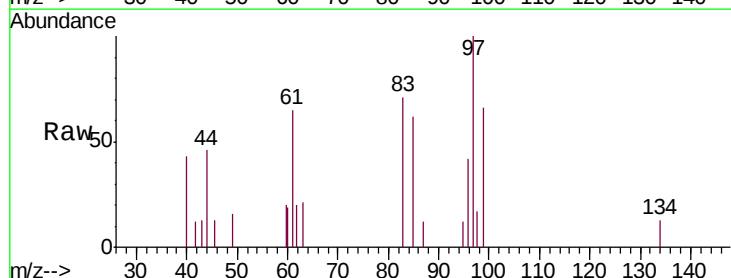
Ion Ratio Lower Upper

97 100

99 66.2 42.1 78.1

83 71.3 59.2 110.0

85 62.1 38.6 71.8



Abundance Ion 96.95 (96.65 to 97.65): VV015934.D (-2094) (-)

Ion 99.05 (98.75 to 99.75): VV015934.D (-2094) (-)

Ion 82.95 (82.65 to 83.65): VV015934.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV015934.D (-2094) (-)

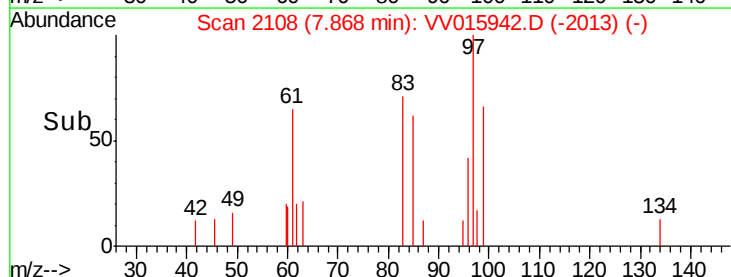
1000

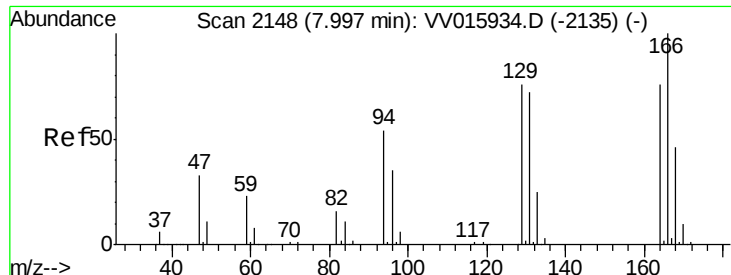
500

0

7.85 7.90

Time-->





#49

Tetrachloroethene

Concen: 0.263 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleID :

MDL04

Tgt Ion:164 Resp: 1939

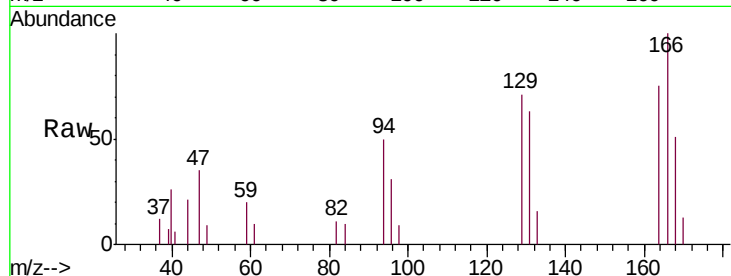
Ion Ratio Lower Upper

164 100

129 95.2 69.7 129.4

131 83.9 66.8 124.2

166 133.5 89.1 165.5



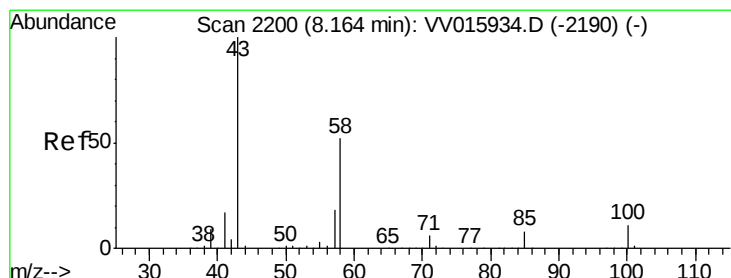
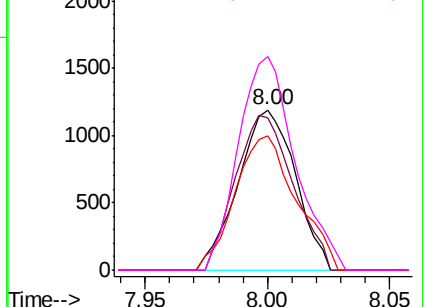
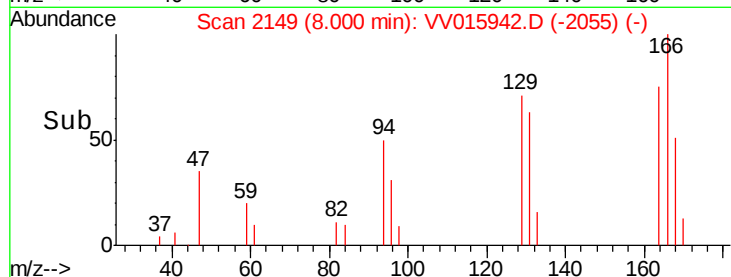
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#50

2-Hexanone

Concen: 3.535 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Tgt Ion: 43 Resp: 14668

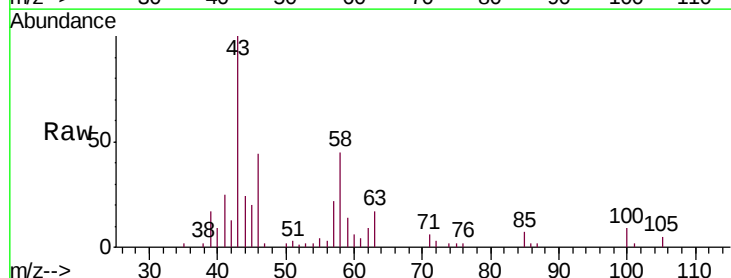
Ion Ratio Lower Upper

43 100

58 56.8 40.8 61.2

57 23.2 14.7 22.1#

100 10.2 9.0 13.6



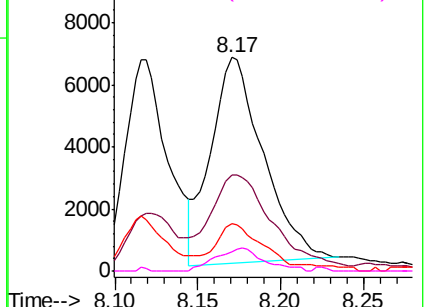
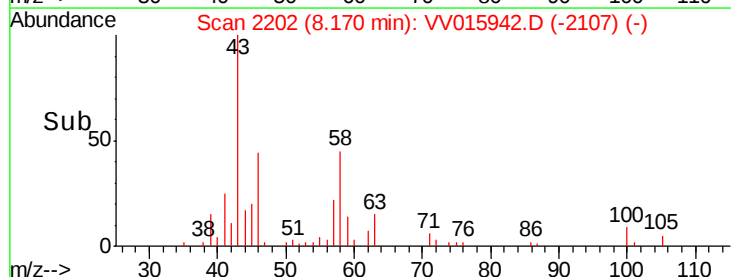
Abundance

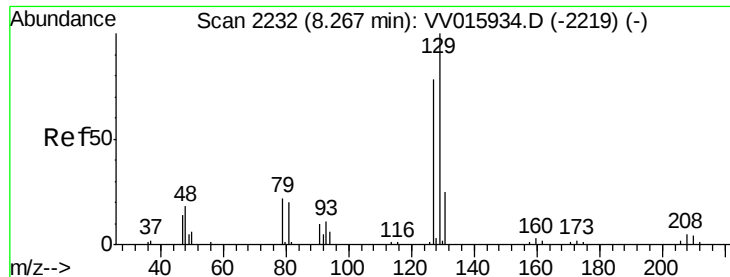
Ion 43.05 (42.75 to 43.75): VV0

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

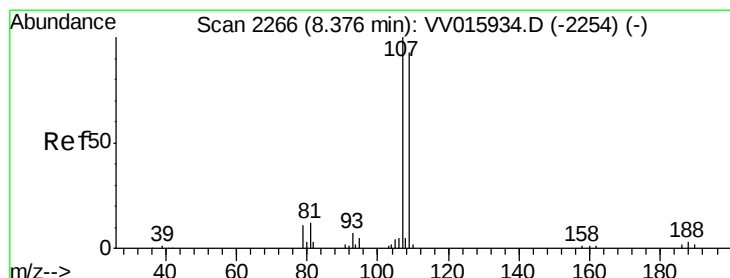
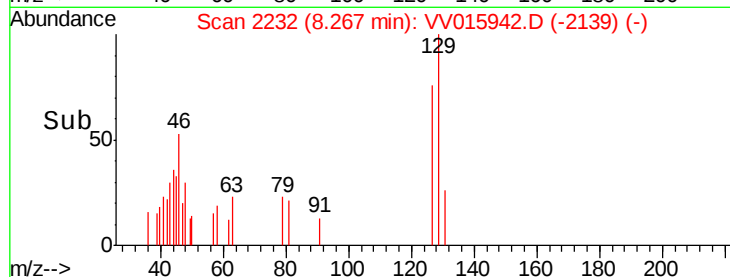
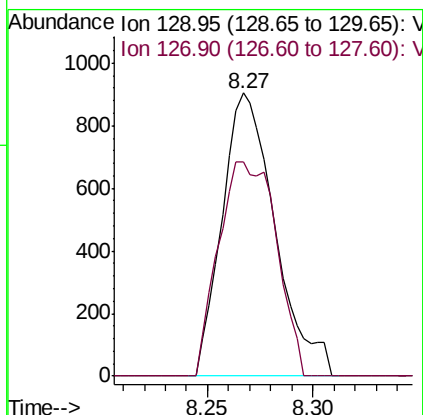
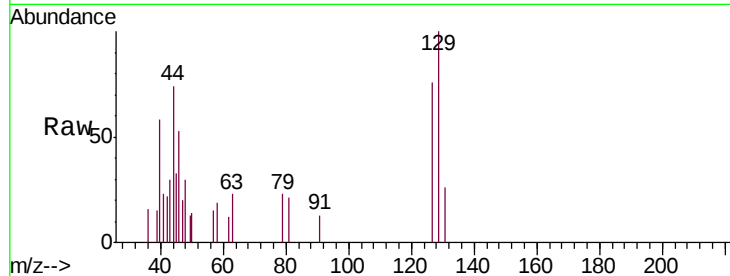




#51  
 Dibromochloromethane  
 Concen: 0.224 ug/L  
 RT: 8.27 min Scan# 2232  
 Delta R.T. -0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

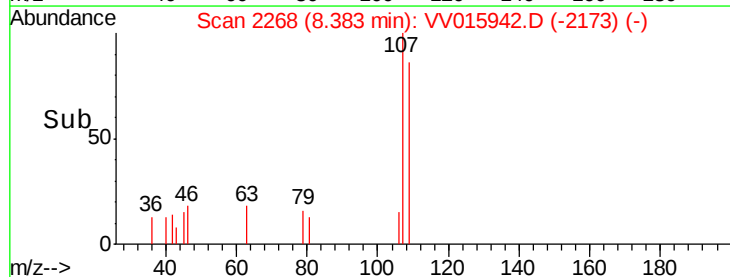
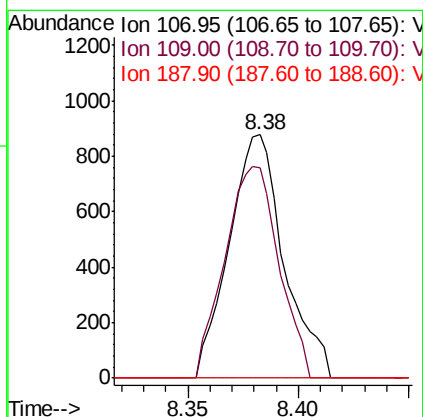
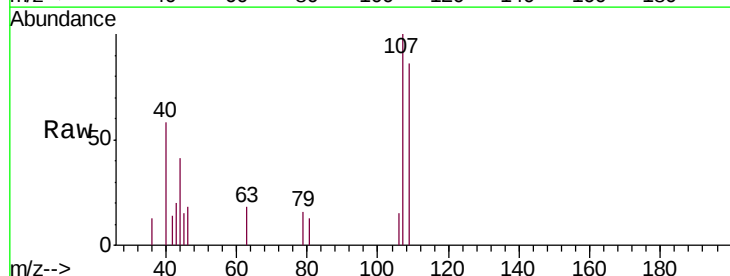
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

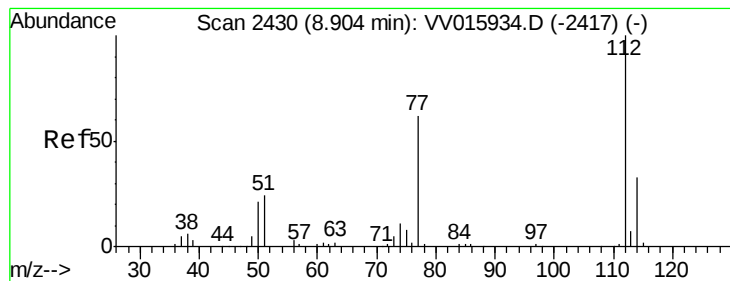
Tgt Ion:129 Resp: 1581  
 Ion Ratio Lower Upper  
 129 100  
 127 75.9 56.0 104.0



#52  
 1,2-Dibromoethane  
 Concen: 0.260 ug/L  
 RT: 8.38 min Scan# 2268  
 Delta R.T. 0.01 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion:107 Resp: 1515  
 Ion Ratio Lower Upper  
 107 100  
 109 86.4 68.9 127.9  
 188 0.0 2.7 4.1#





#53

Chlorobenzene

Concen: 0.256 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

MDL04

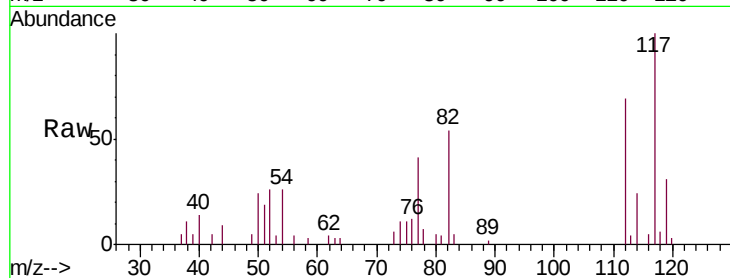
Tgt Ion: 112 Resp: 6467

Ion Ratio Lower Upper

112 100

114 35.2 21.6 40.0

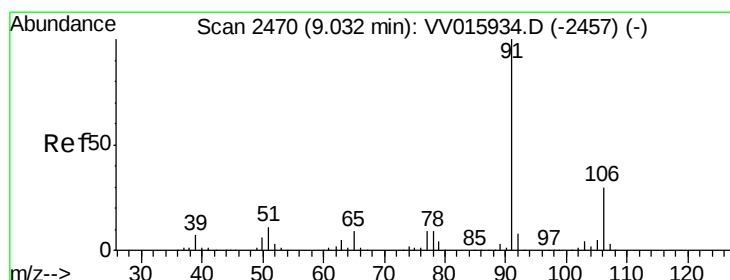
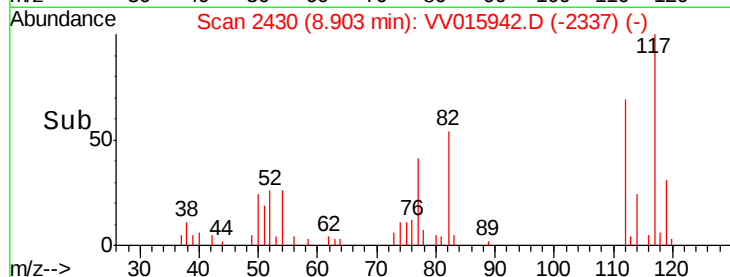
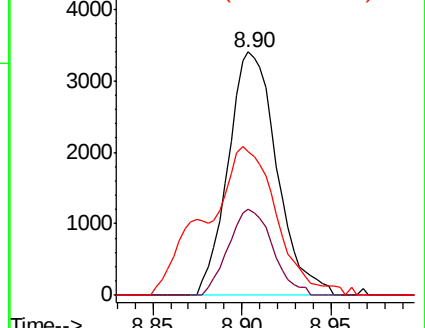
77 59.1 48.6 73.0



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 0.225 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015942.D

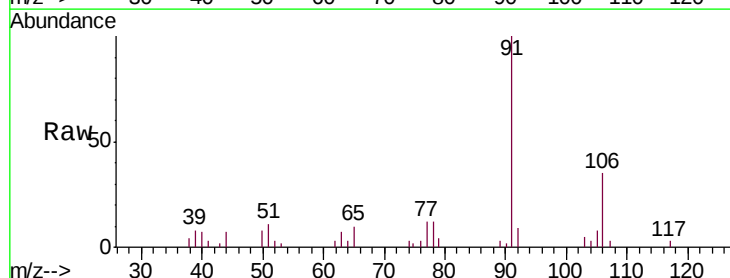
Acq: 07 May 2020 15:33

Tgt Ion: 91 Resp: 10058

Ion Ratio Lower Upper

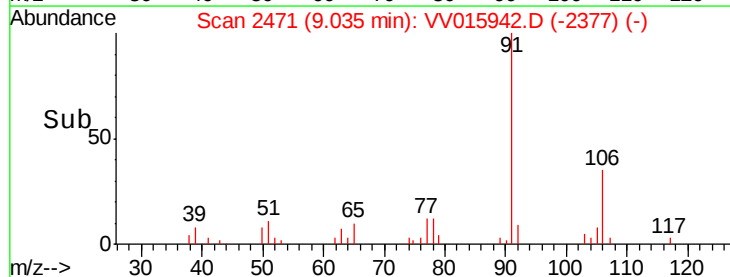
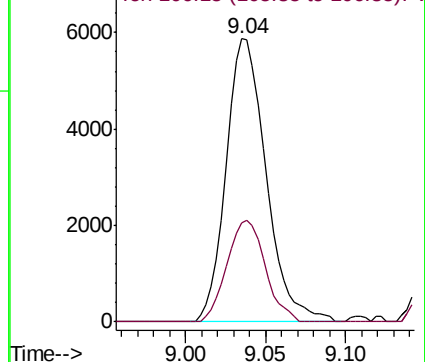
91 100

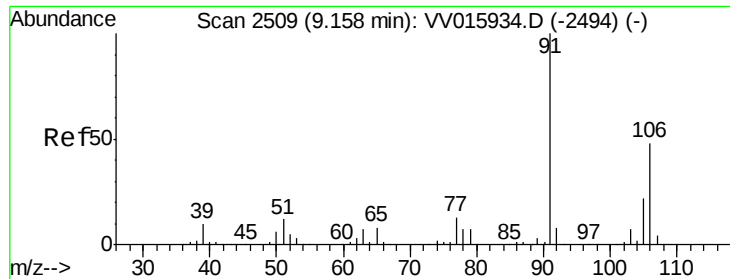
106 35.1 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 0.250 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampleId :

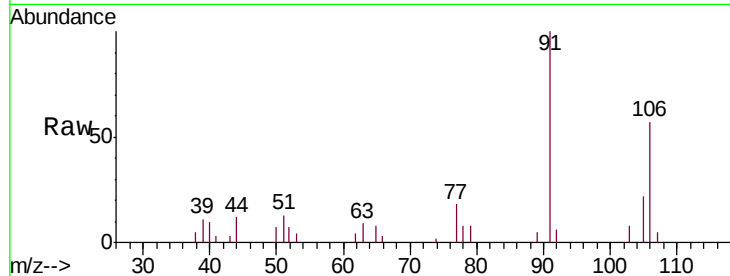
MDL04

Tgt Ion:106 Resp: 4131

Ion Ratio Lower Upper

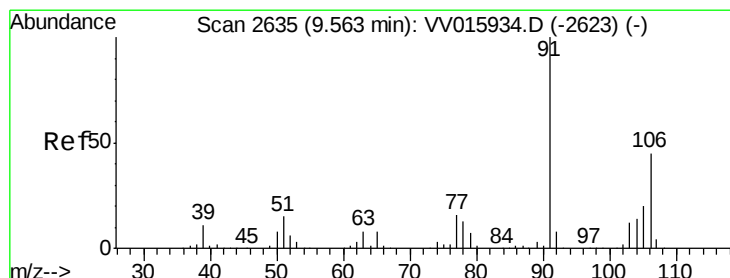
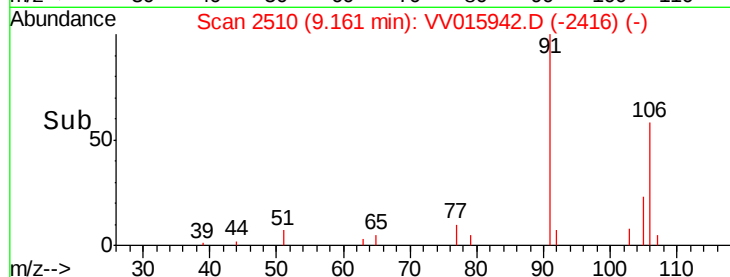
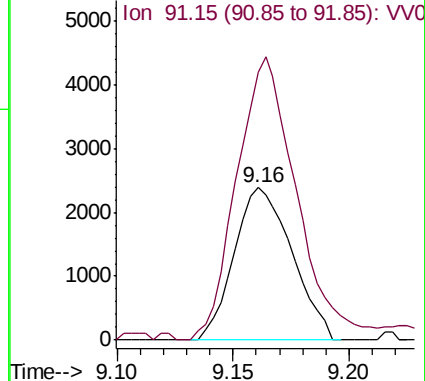
106 100

91 176.3 149.9 278.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 0.229 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015942.D

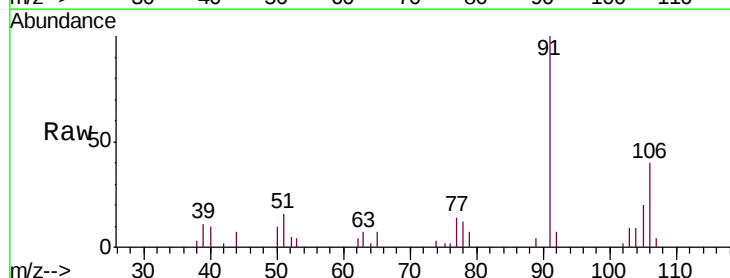
Acq: 07 May 2020 15:33

Tgt Ion:106 Resp: 3628

Ion Ratio Lower Upper

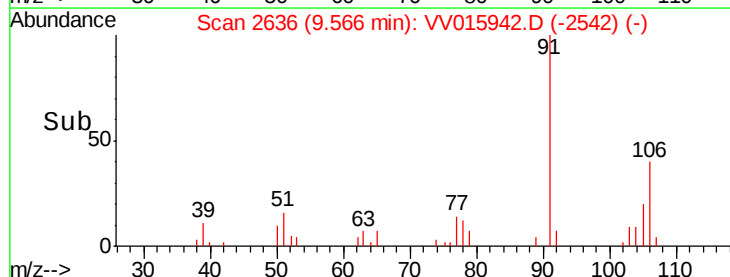
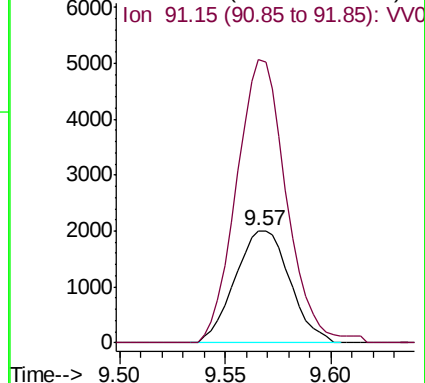
106 100

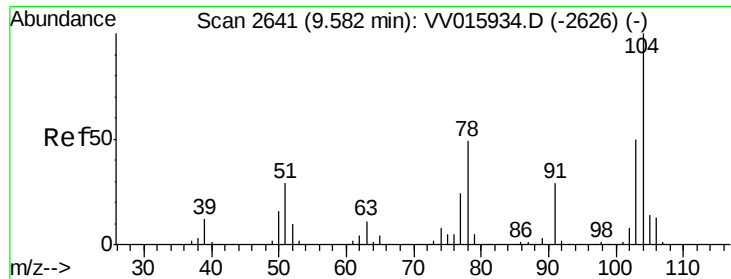
91 252.1 159.7 296.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#57

Styrene

Concen: 0.217 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

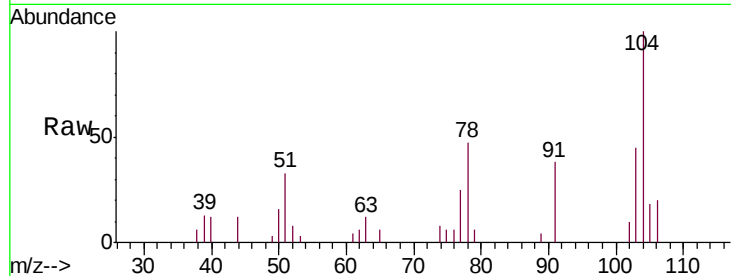
MDL04

Tgt Ion:104 Resp: 5736

Ion Ratio Lower Upper

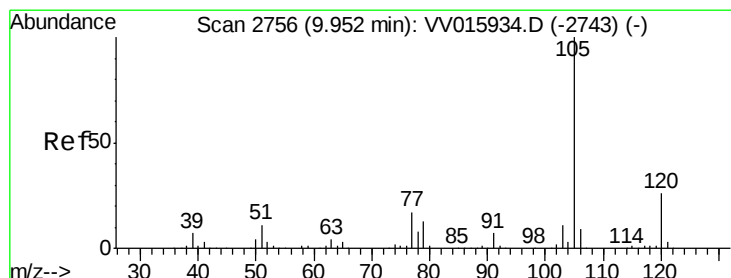
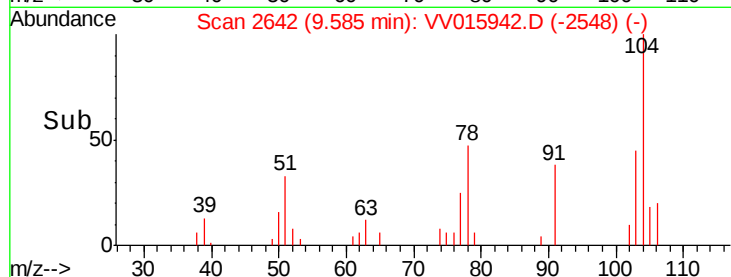
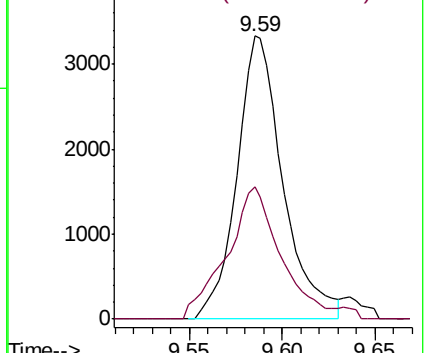
104 100

78 46.7 33.9 63.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#58

Isopropylbenzene

Concen: 0.238 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

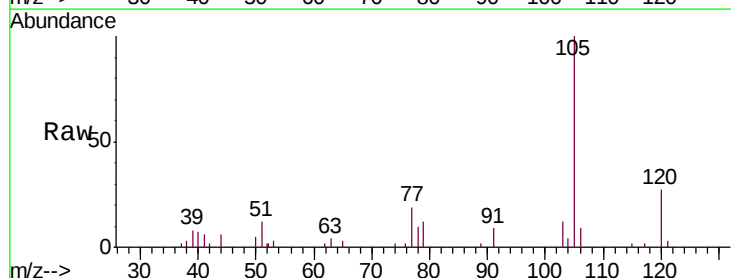
Tgt Ion:105 Resp: 10352

Ion Ratio Lower Upper

105 100

120 24.2 20.8 31.2

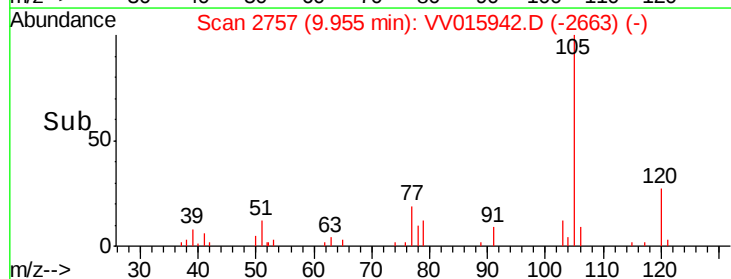
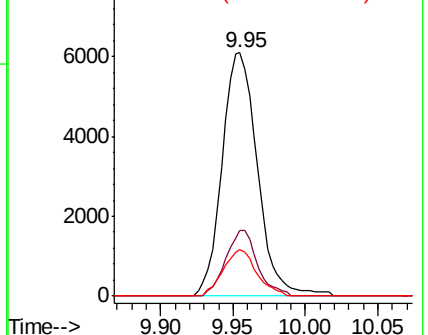
77 18.0 14.1 21.1

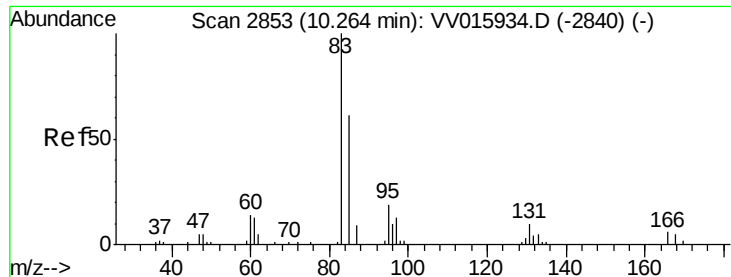


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#60

1,1,2,2-Tetrachloroethane

Concen: 0.291 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

Instrument :

MSVOA\_V

ClientSampled :

MDL04

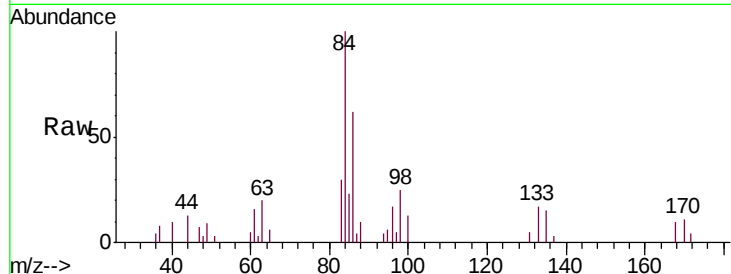
Tgt Ion: 83 Resp: 1952

Ion Ratio Lower Upper

83 100

85 76.0 44.0 81.6

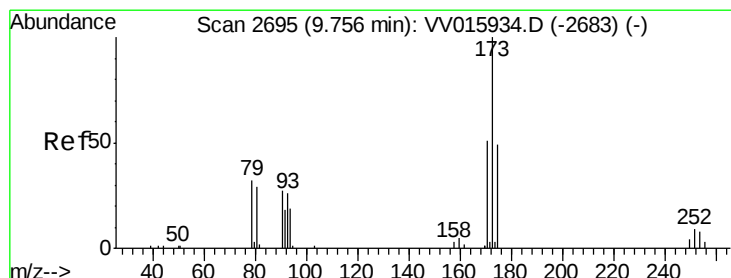
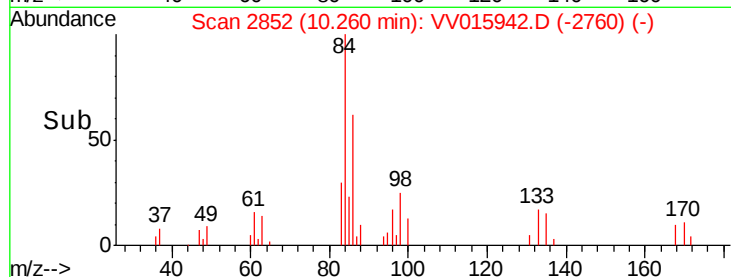
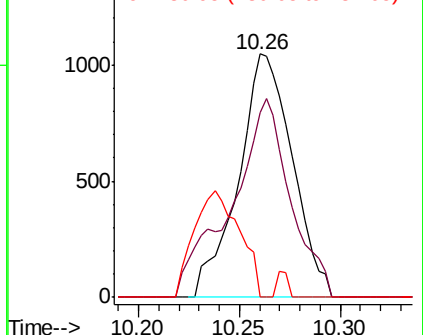
131 0.0 7.7 11.5#



Abundance Ion 82.95 (82.65 to 83.65): VV015934.D (-2840) (-)

Ion 85.00 (84.70 to 85.70): VV015934.D (-2840) (-)

Ion 130.95 (130.65 to 131.65): VV015934.D (-2840) (-)



#62

Bromoform

Concen: 0.173 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.01 min

Lab File: VV015942.D

Acq: 07 May 2020 15:33

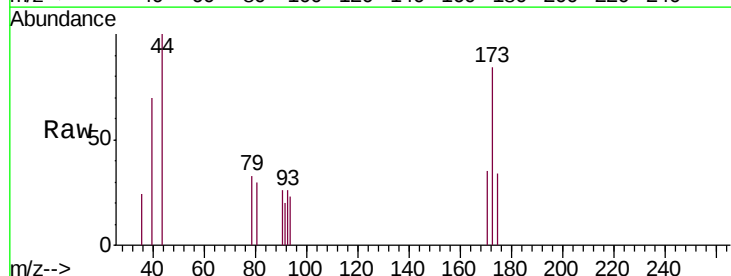
Tgt Ion: 173 Resp: 562

Ion Ratio Lower Upper

173 100

175 40.6 39.8 59.8

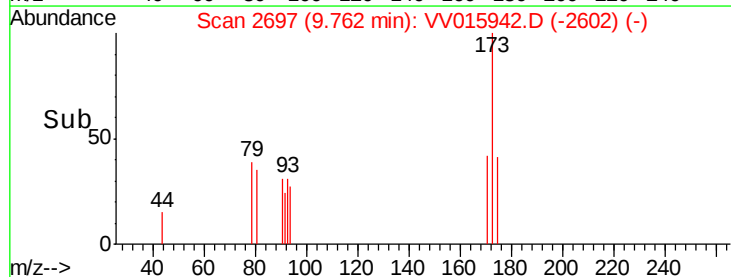
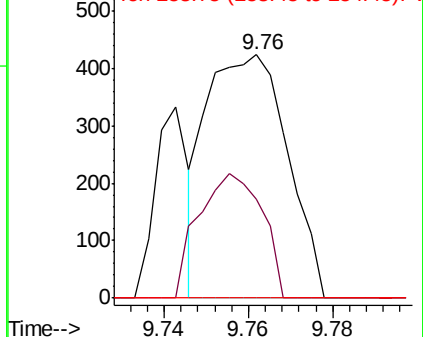
254 0.0 7.1 10.7#

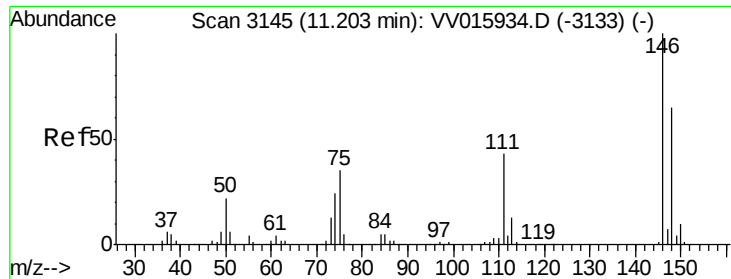


Abundance Ion 172.90 (172.60 to 173.60): VV015934.D (-2683) (-)

Ion 174.90 (174.60 to 175.60): VV015934.D (-2683) (-)

Ion 253.75 (253.45 to 254.45): VV015934.D (-2683) (-)

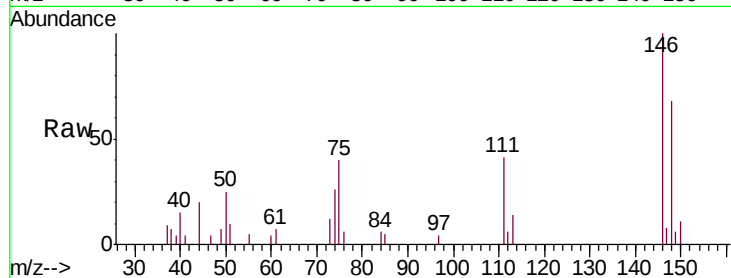




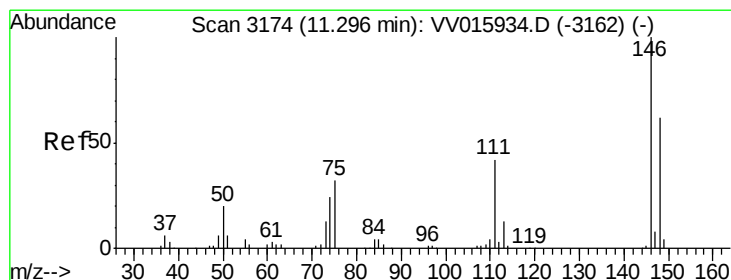
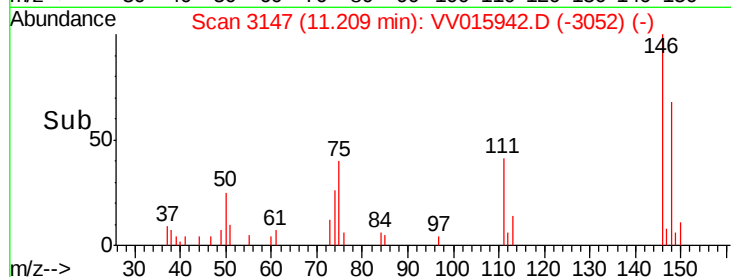
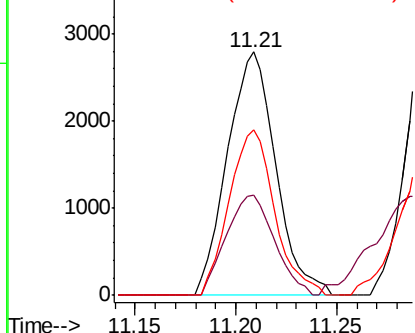
#63  
 1,3-Dichlorobenzene  
 Concen: 0.247 ug/L  
 RT: 11.21 min Scan# 3147  
 Delta R.T. 0.01 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion:146 Resp: 4693  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 28.7 53.3  
 148 67.9 44.0 81.8

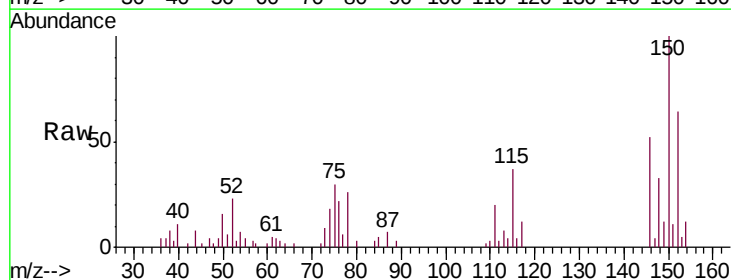


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

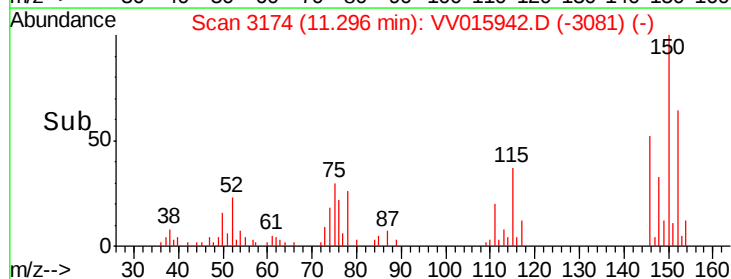
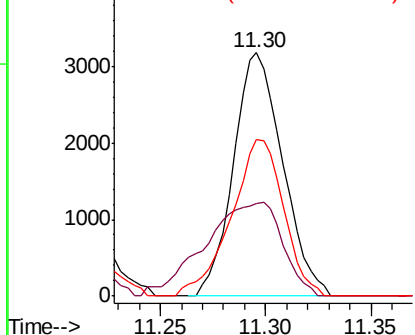


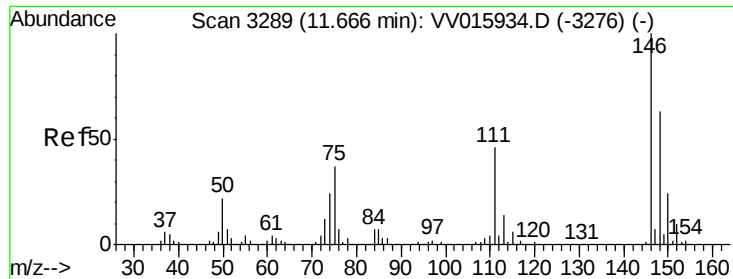
#64  
 1,4-Dichlorobenzene  
 Concen: 0.269 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion:146 Resp: 5146  
 Ion Ratio Lower Upper  
 146 100  
 111 38.0 28.9 53.7  
 148 64.1 44.6 82.8



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

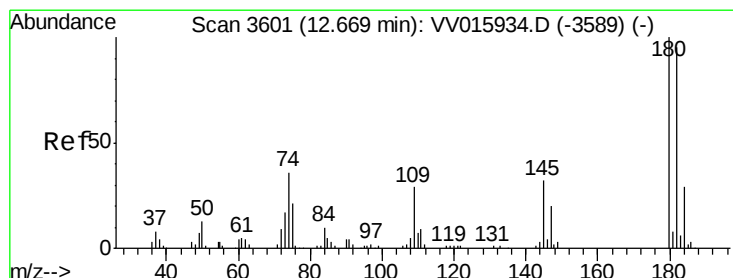
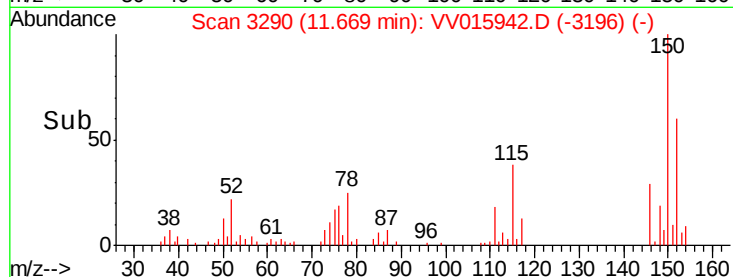
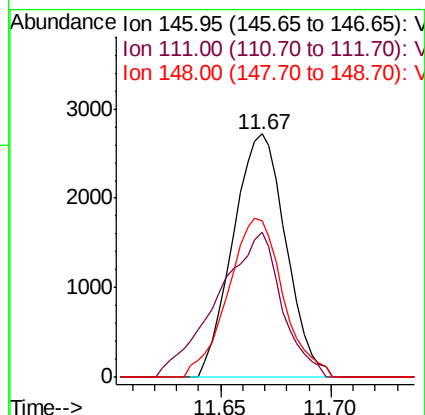
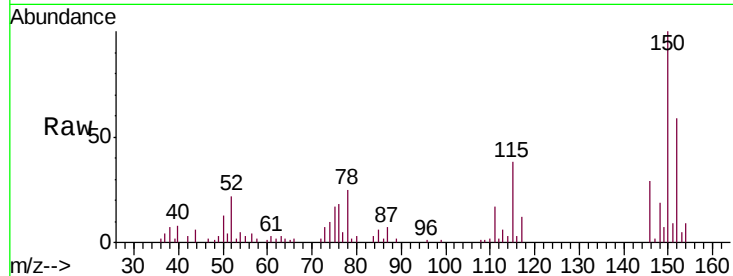




#66  
 1,2-Dichlorobenzene  
 Concen: 0.264 ug/L  
 RT: 11.67 min Scan# 3290  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

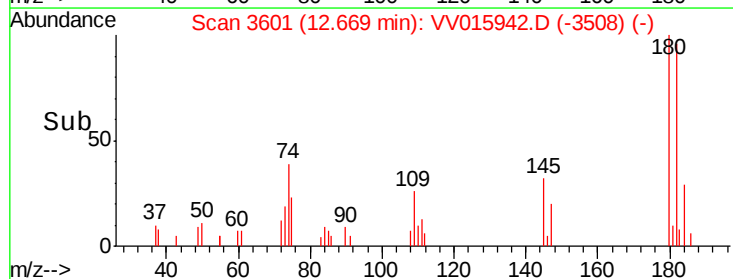
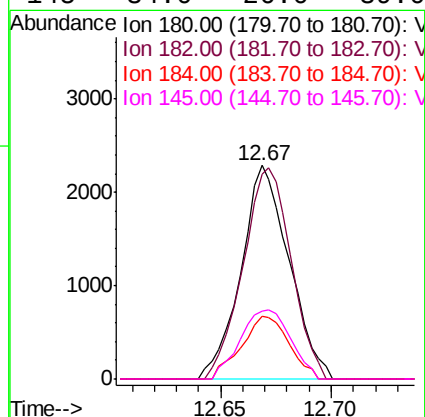
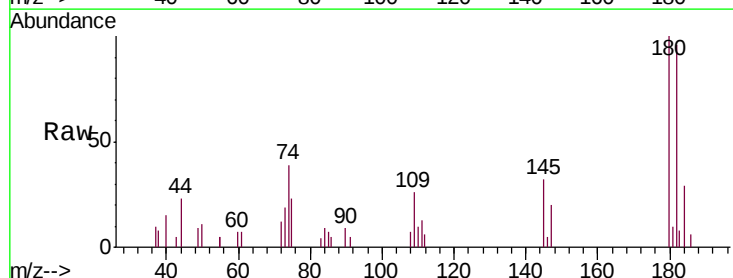
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

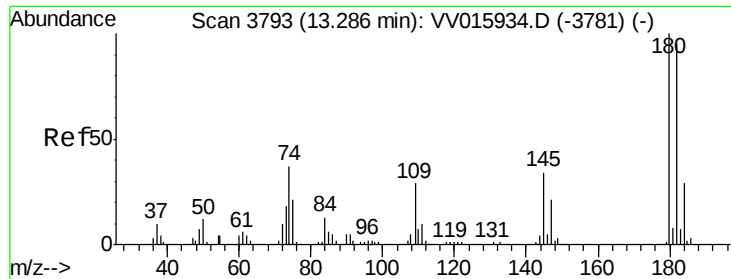
Tgt Ion:146 Resp: 4534  
 Ion Ratio Lower Upper  
 146 100  
 111 59.7 37.0 55.4#  
 148 64.4 49.8 74.6



#68  
 1,3,5-Trichlorobenzene  
 Concen: 0.248 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion:180 Resp: 3453  
 Ion Ratio Lower Upper  
 180 100  
 182 98.8 75.8 113.6  
 184 29.1 24.6 36.8  
 145 34.0 26.0 39.0

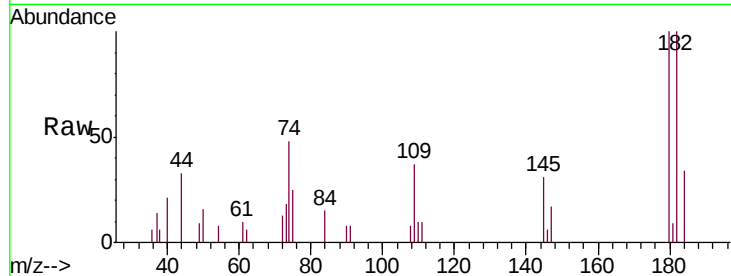




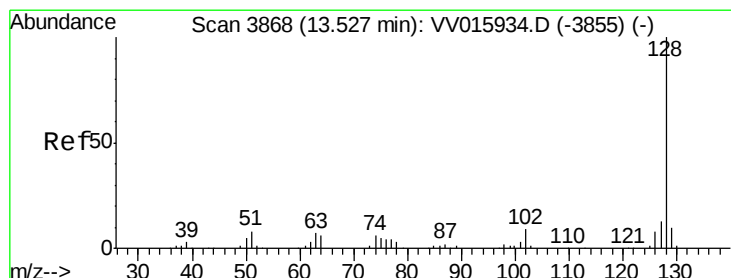
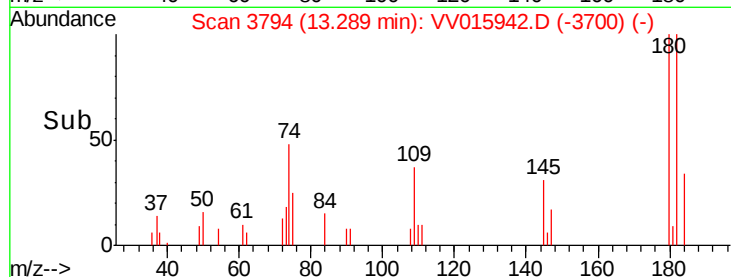
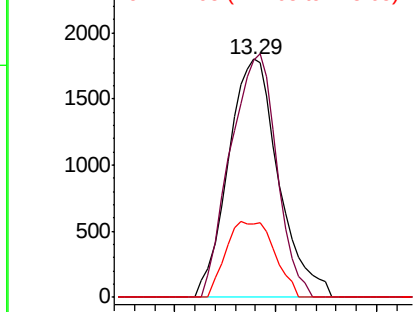
#69  
 1,2,4-trichlorobenzene  
 Concen: 0.263 ug/L  
 RT: 13.29 min Scan# 3794  
 Delta R.T. 0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion:180 Resp: 3142  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 76.7 115.1  
 145 30.5 26.4 39.6

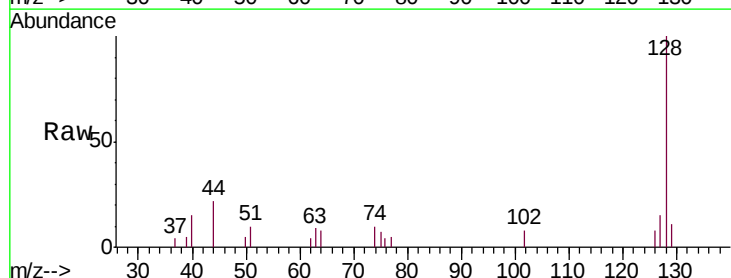


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

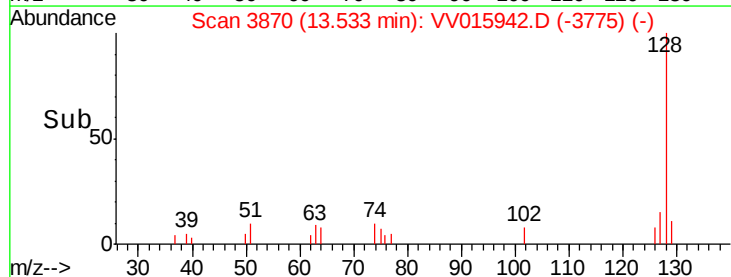
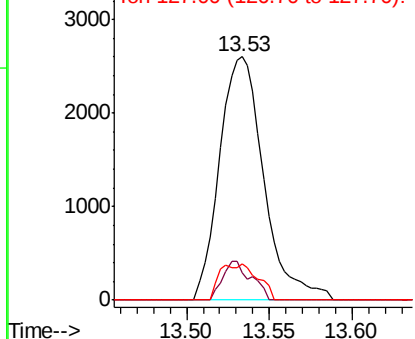


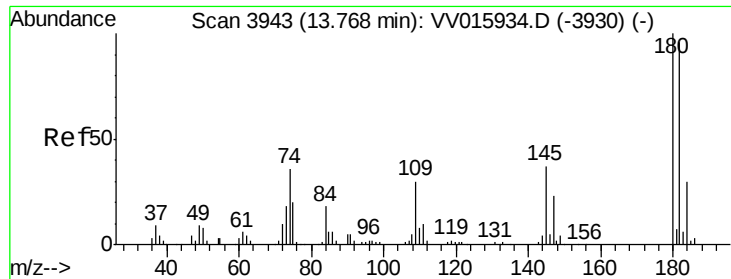
#70  
 Naphthalene  
 Concen: 0.254 ug/L  
 RT: 13.53 min Scan# 3870  
 Delta R.T. 0.01 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Tgt Ion:128 Resp: 4828  
 Ion Ratio Lower Upper  
 128 100  
 129 10.1 8.5 12.7  
 127 5.0 10.2 15.2#



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





#71  
 1,2,3-Trichlorobenzene  
 Concen: 0.257 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VV015942.D  
 Acq: 07 May 2020 15:33

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL04

Tgt Ion:180 Resp: 2705  
 Ion Ratio Lower Upper  
 180 100  
 182 102.7 77.0 115.6  
 145 33.6 28.3 42.5

