

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV062818\  
 Data File : VV006486.D  
 Acq On : 28 Jun 2018 10:03  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Quant Time: Jun 29 03:46:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 28 01:18:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 356721   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 320876   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 158084   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 123727   | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 105.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 99665    | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 209002   | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 100.60% |
| 20) 2-Butanone-d5              | 3.97   | 46    | 220772   | 50.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.46% |
| 24) Chloroform-d               | 4.40   | 84    | 195630   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 90641    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.10   | 84    | 420437   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.80% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 123807   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 400082   | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 43484    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 182787   | 50.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.62% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 74213    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 138831   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.60%  |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 122061 | 4.669 ug/L  | 99     |
| 3) Chloromethane               | 1.26 | 50  | 122873 | 4.585 ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 134857 | 4.632 ug/L  | 98     |
| 6) Bromomethane                | 1.54 | 94  | 78894  | 4.678 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 85227  | 4.615 ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 169447 | 4.842 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 109253 | 4.970 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 100687 | 4.667 ug/L  | 99     |
| 13) Acetone                    | 2.23 | 43  | 142461 | 52.881 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 254862 | 4.184 ug/L  | 100    |
| 15) Methyl Acetate             | 2.48 | 43  | 39705  | 5.006 ug/L  | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 112687 | 4.460 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 247923 | 4.742 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 110482 | 4.678 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 199177 | 4.735 ug/L  | 99     |
| 21) 2-Butanone                 | 4.06 | 43  | 234241 | 48.113 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 122037 | 4.699 ug/L  | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV062818\  
 Data File : VV006486.D  
 Acq On : 28 Jun 2018 10:03  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25 mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

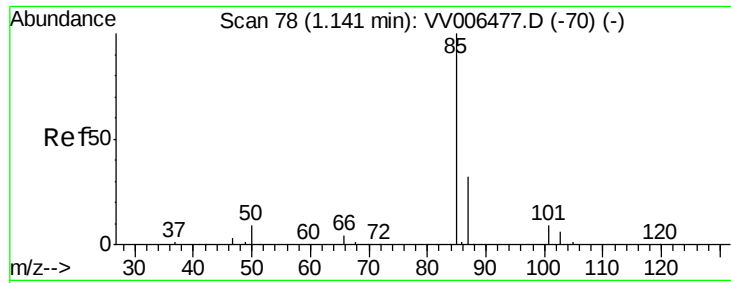
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Quant Time: Jun 29 03:46:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR062518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 28 01:18:56 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 49346    | 4.676  | ug/L  | 98       |
| 25) Chloroform                 | 4.43  | 83   | 201826   | 4.760  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.19  | 62   | 113585   | 4.768  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 165288   | 4.724  | ug/L  | 100      |
| 30) Cyclohexane                | 4.73  | 56   | 167423   | 4.787  | ug/L  | 100      |
| 31) Carbon tetrachloride       | 4.88  | 117  | 138001   | 4.702  | ug/L  | 98       |
| 33) Benzene                    | 5.15  | 78   | 457355   | 4.826  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 127664   | 4.709  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.18  | 83   | 192600   | 4.886  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 112972   | 4.878  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.56  | 83   | 126242   | 4.736  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.08  | 75   | 154611   | 4.798  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 546056   | 48.459 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 484777   | 4.831  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 120140   | 4.753  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 78257    | 4.893  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 98727    | 4.820  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 395659   | 48.806 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.30  | 129  | 80828    | 4.741  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 69836    | 4.857  | ug/L  | 96       |
| 51) Chlorobenzene              | 8.93  | 112  | 320724   | 4.830  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.06  | 91   | 529540   | 4.874  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.19  | 106  | 205950   | 4.915  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 201259   | 4.896  | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 336916   | 5.010  | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.98  | 105  | 526759   | 4.918  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 71329    | 4.729  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 61711    | 4.899  | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 40348    | 4.548  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 245590   | 4.716  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 246800   | 4.739  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 233616   | 4.794  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 9078     | 4.383  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 193452   | 4.889  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 144740   | 4.989  | ug/L  | 99       |
| 69) Naphthalene                | 13.56 | 128  | 207716   | 4.898  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 133274   | 4.934  | ug/L  | 99       |

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





#2

Dichlorodifluoromethane

Concen: 4.669 ug/L

RT: 1.14 min Scan# 78

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

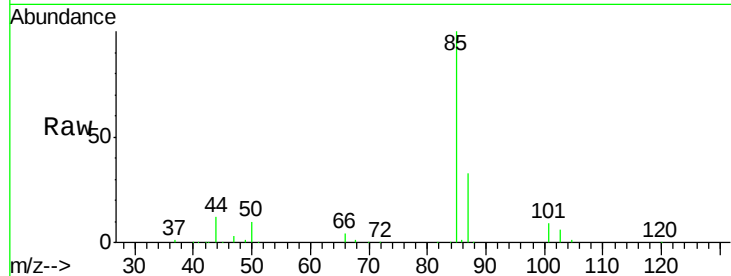
VSTD00566

Tgt Ion: 85 Resp: 122061

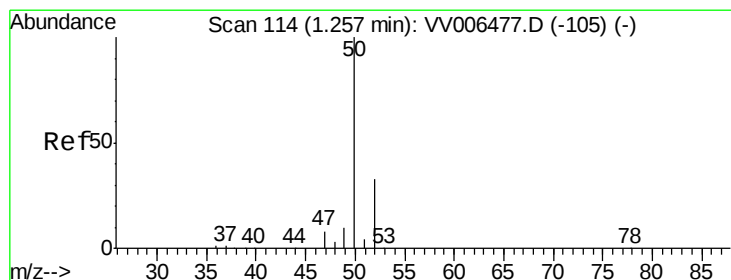
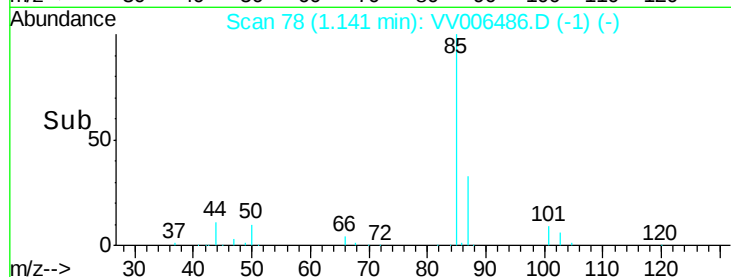
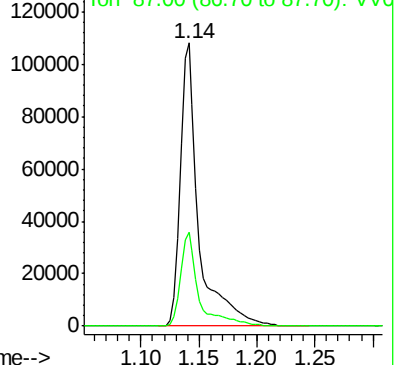
Ion Ratio Lower Upper

85 100

87 32.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV006486.D (-1) (-)



#3

Chloromethane

Concen: 4.585 ug/L

RT: 1.26 min Scan# 114

Delta R.T. -0.00 min

Lab File: VV006486.D

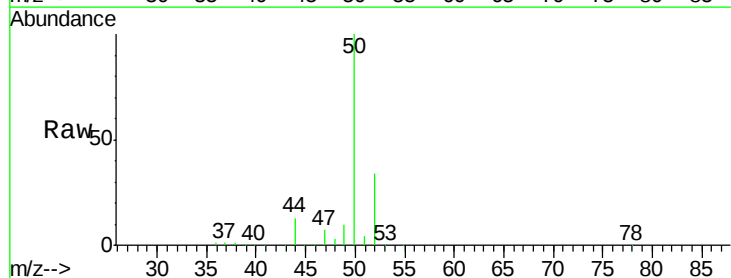
Acq: 28 Jun 2018 10:03

Tgt Ion: 50 Resp: 122873

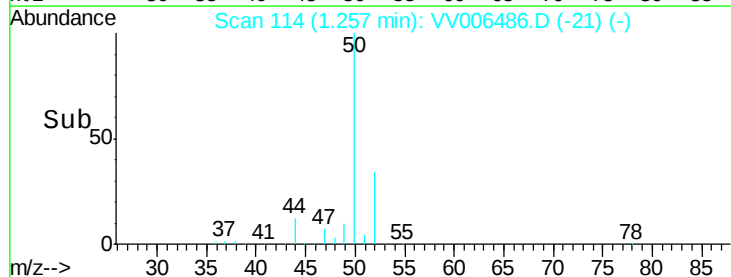
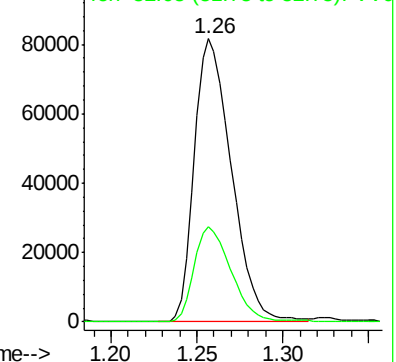
Ion Ratio Lower Upper

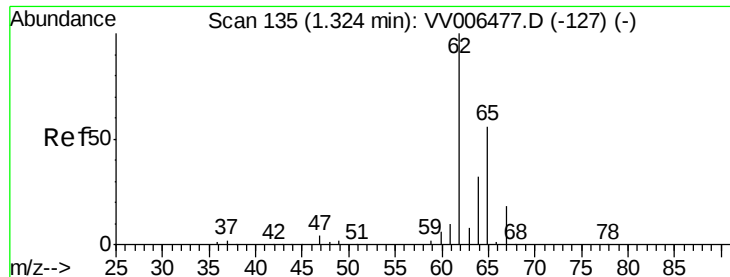
50 100

52 33.8 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV006486.D (-21) (-)





#5

Vinyl chloride

Concen: 4.632 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

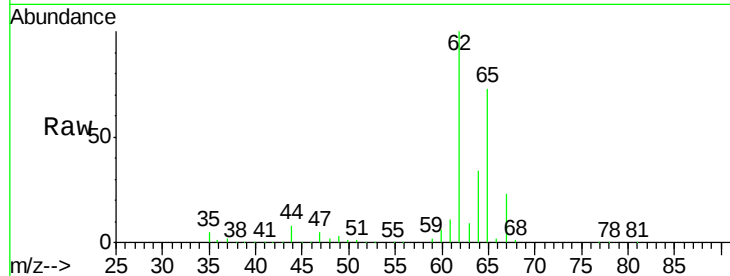
VSTD00566

Tgt Ion: 62 Resp: 134857

Ion Ratio Lower Upper

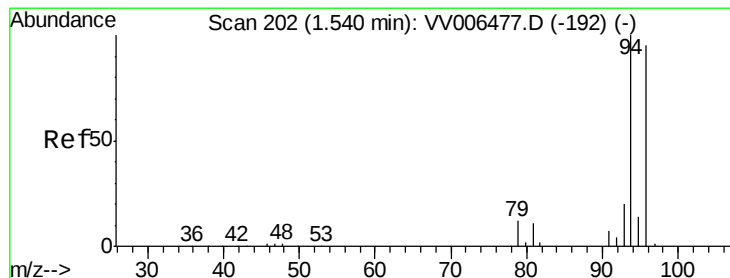
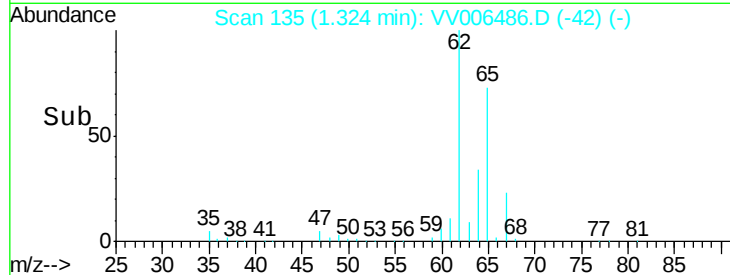
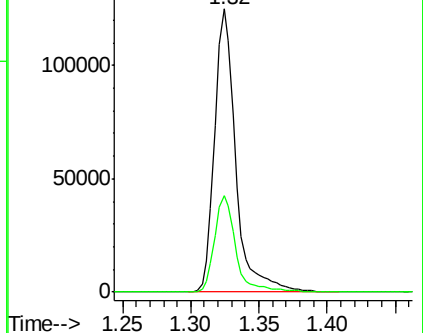
62 100

64 34.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 4.678 ug/L

RT: 1.54 min Scan# 202

Delta R.T. -0.00 min

Lab File: VV006486.D

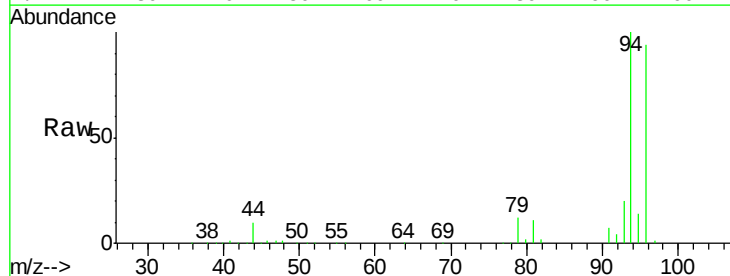
Acq: 28 Jun 2018 10:03

Tgt Ion: 94 Resp: 78894

Ion Ratio Lower Upper

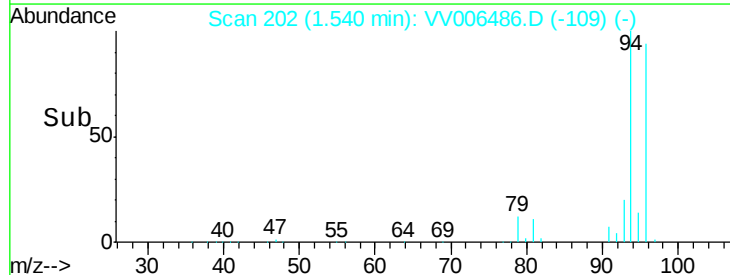
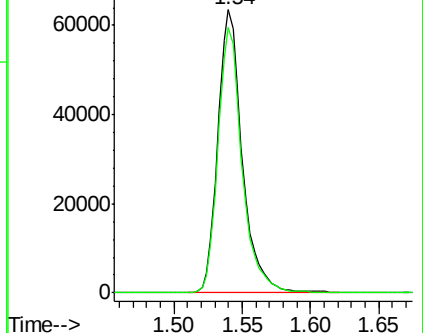
94 100

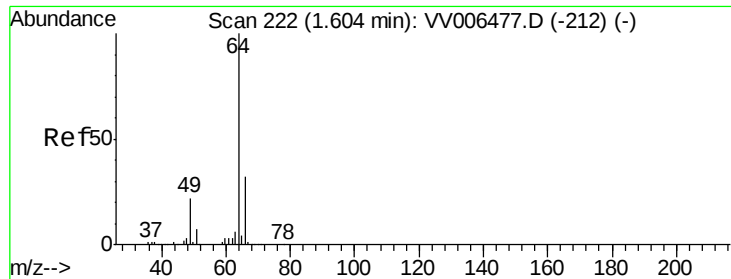
96 93.8 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

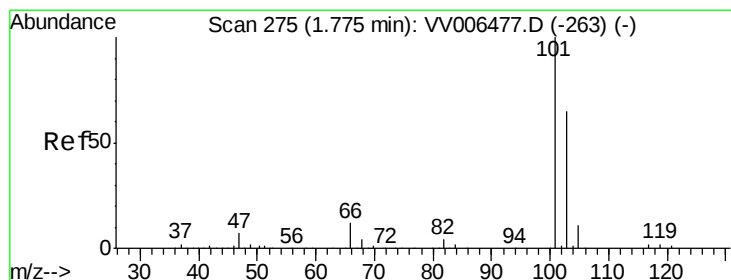
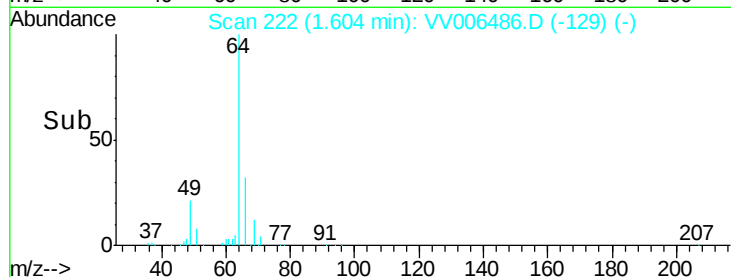
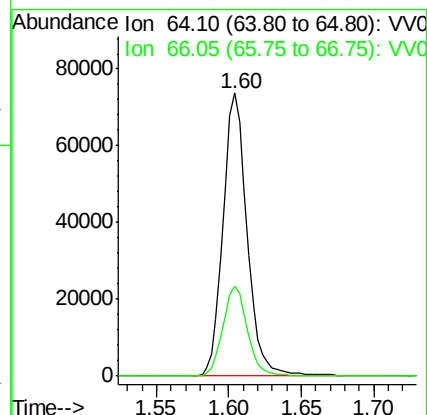
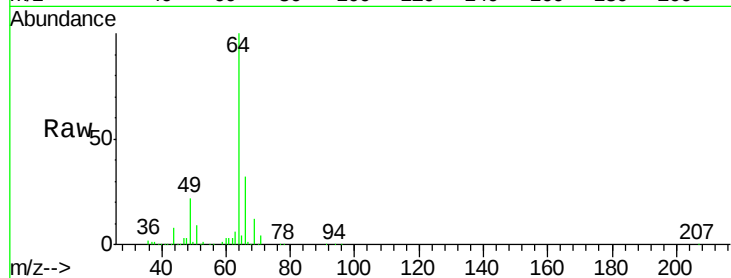




#8  
Chloroethane  
Concen: 4.615 ug/L  
RT: 1.60 min Scan# 222  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

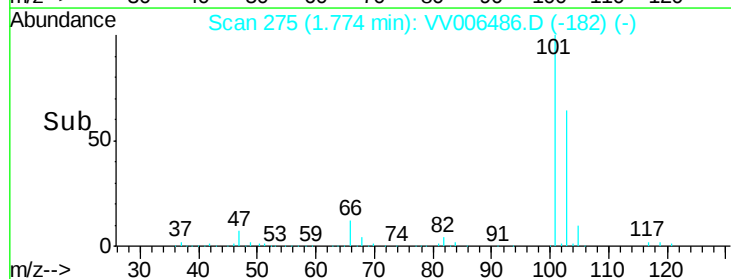
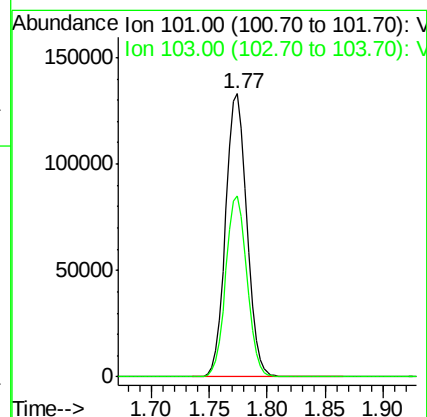
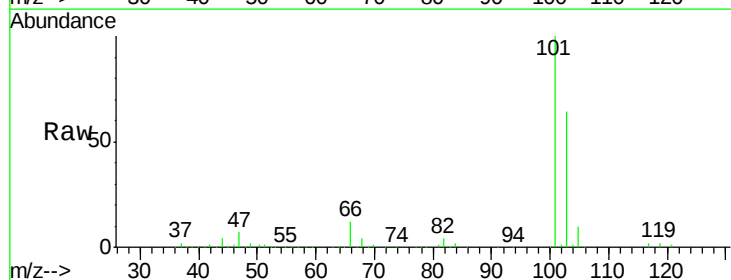
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

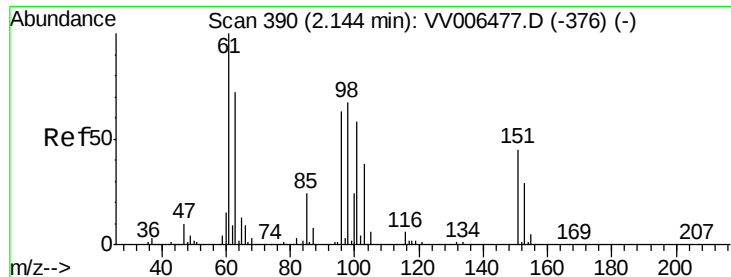
Tgt Ion: 64 Resp: 85227  
Ion Ratio Lower Upper  
64 100  
66 31.7 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 4.842 ug/L  
RT: 1.77 min Scan# 275  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion: 101 Resp: 169447  
Ion Ratio Lower Upper  
101 100  
103 64.2 51.5 77.3





#10

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

Concen: 4.970 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00566

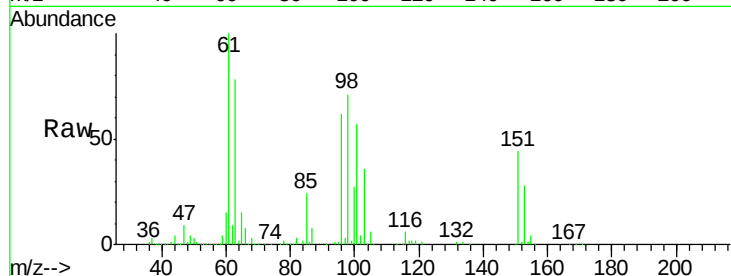
Tgt Ion: 101 Resp: 109253

Ion Ratio Lower Upper

101 100

85 41.9 33.1 49.7

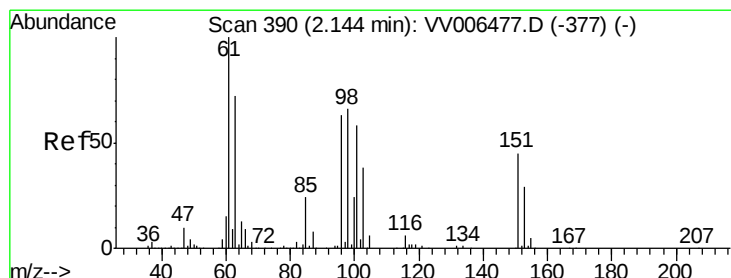
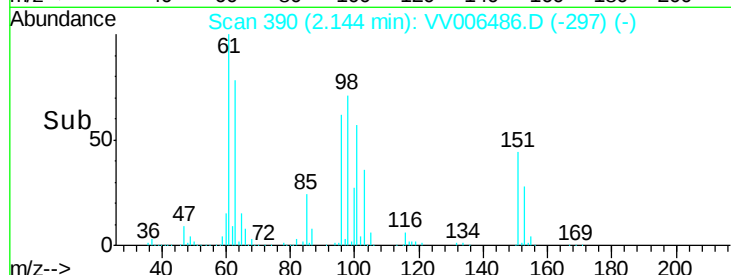
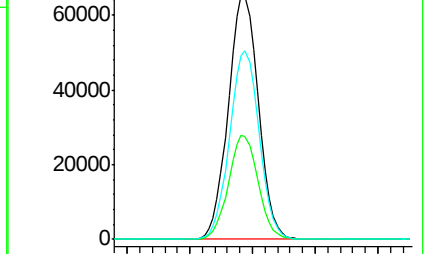
151 75.9 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): VV006486.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VV006486.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VV006486.D (-297) (-)



#12

1,1-Dichloroethene

Concen: 4.667 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

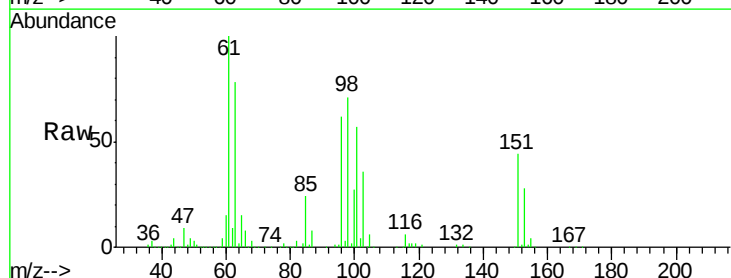
Tgt Ion: 96 Resp: 100687

Ion Ratio Lower Upper

96 100

61 161.2 111.4 207.0

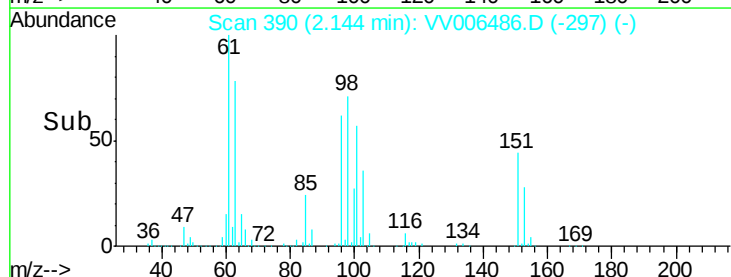
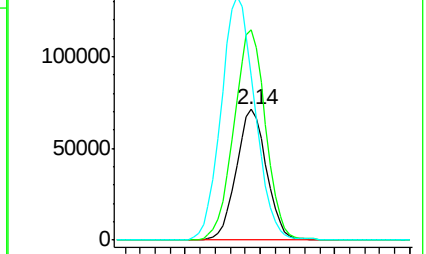
63 125.2 87.4 162.2

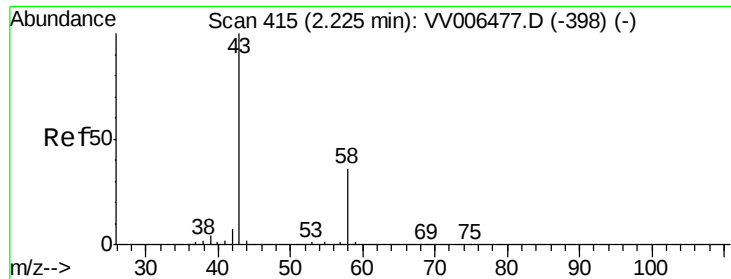


Abundance Ion 96.00 (95.70 to 96.70): VV006486.D (-297) (-)

Ion 61.05 (60.75 to 61.75): VV006486.D (-297) (-)

Ion 63.00 (62.70 to 63.70): VV006486.D (-297) (-)





#13

Acetone

Concen: 52.881 ug/L

RT: 2.23 min Scan# 416

Delta R.T. 0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

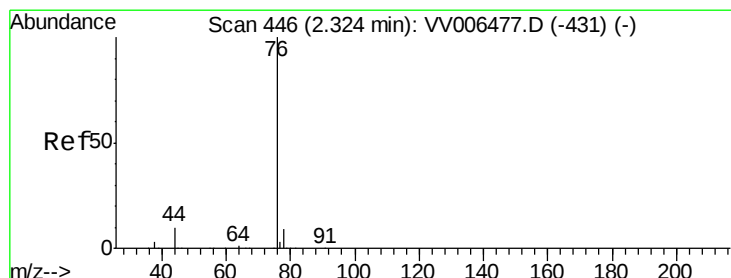
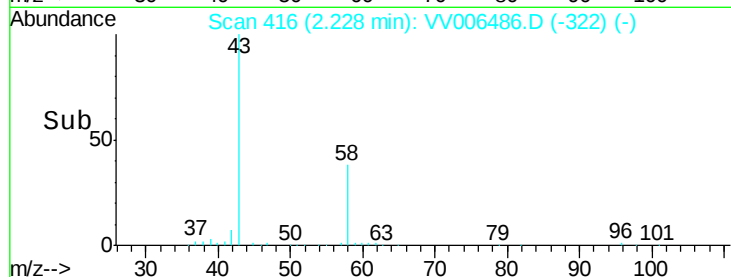
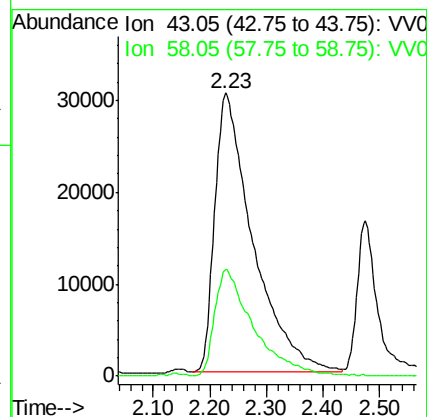
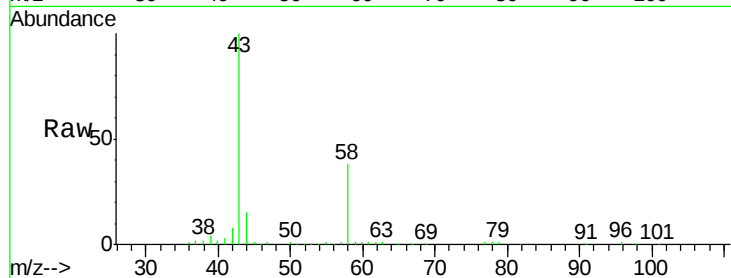
VSTD00566

Tgt Ion: 43 Resp: 142461

Ion Ratio Lower Upper

43 100

58 38.6 0.0 77.4



#14

Carbon disulfide

Concen: 4.184 ug/L

RT: 2.32 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV006486.D

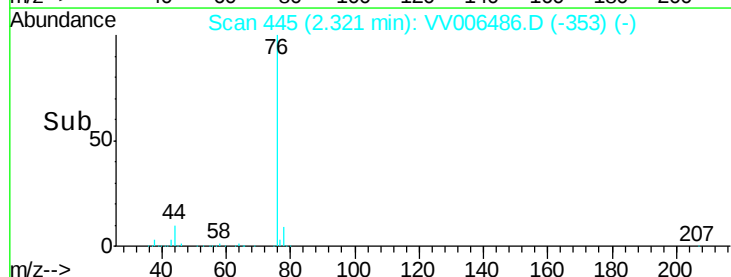
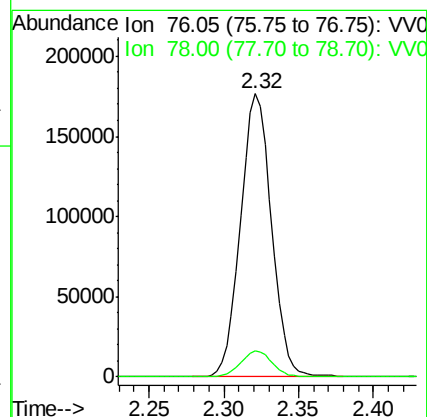
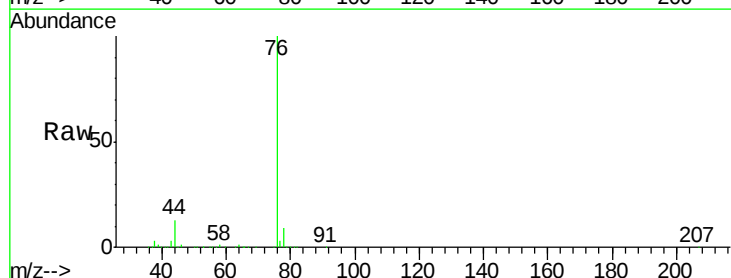
Acq: 28 Jun 2018 10:03

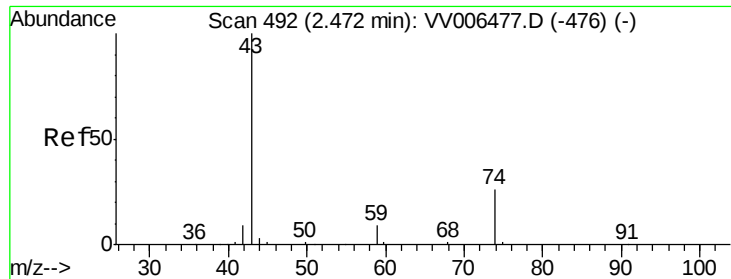
Tgt Ion: 76 Resp: 254862

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3

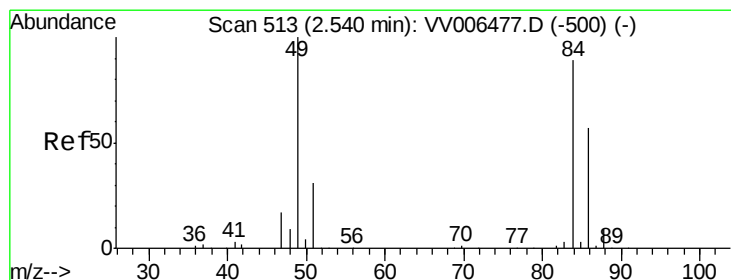
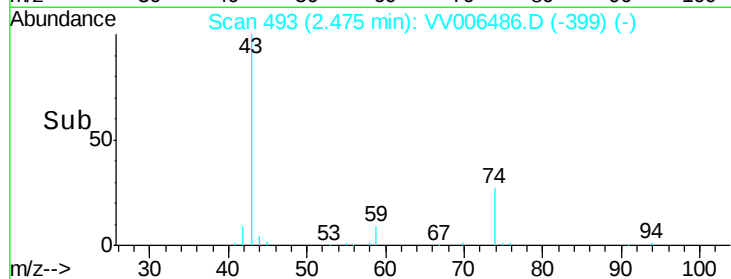
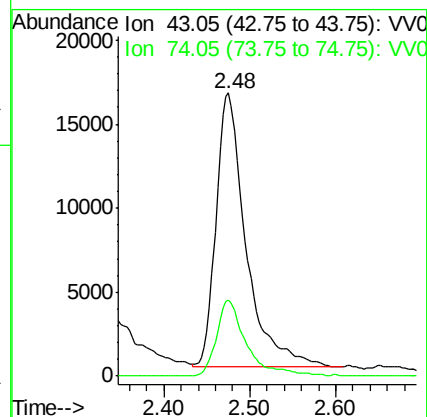
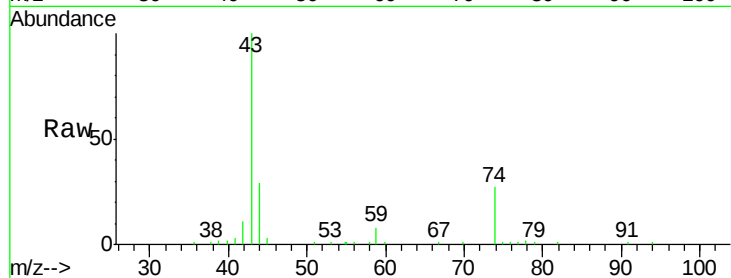




#15  
Methyl Acetate  
Concen: 5.006 ug/L  
RT: 2.48 min Scan# 493  
Delta R.T. 0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

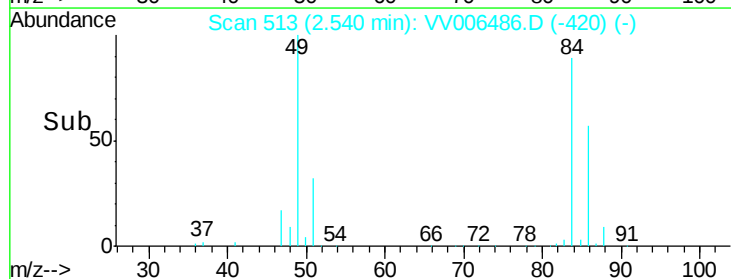
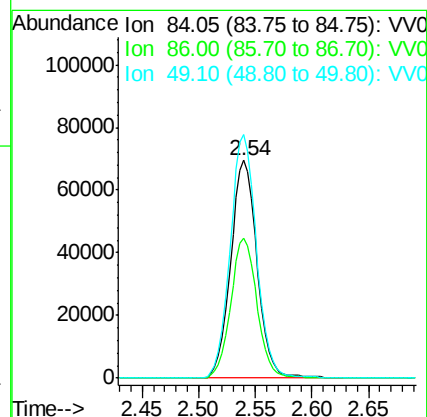
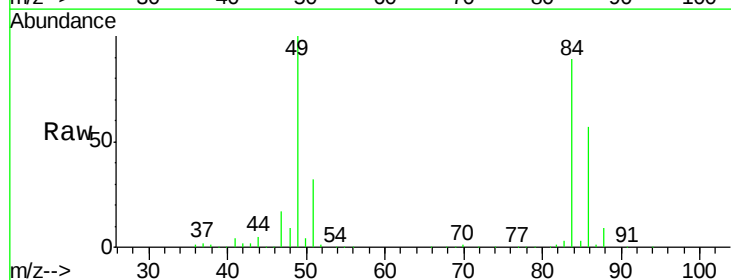
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

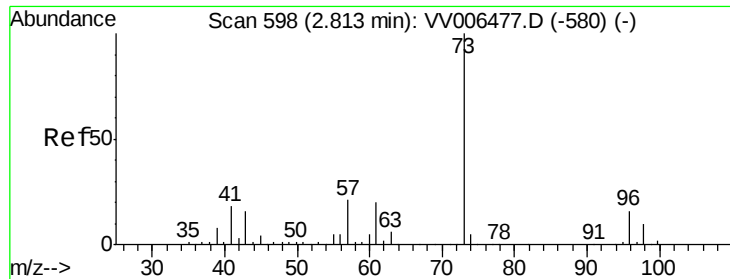
Tgt Ion: 43 Resp: 39705  
Ion Ratio Lower Upper  
43 100  
74 27.8 22.2 33.4



#16  
Methylene chloride  
Concen: 4.460 ug/L  
RT: 2.54 min Scan# 513  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion: 84 Resp: 112687  
Ion Ratio Lower Upper  
84 100  
86 64.2 44.2 82.2  
49 111.9 79.0 146.8





#17

Methyl tert-butyl Ether

Concen: 4.742 ug/L

RT: 2.81 min Scan# 598

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampled :

VSTD00566

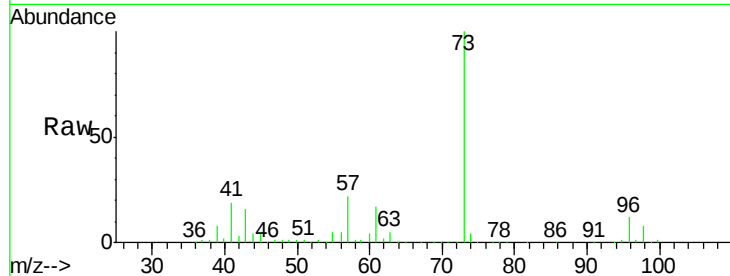
Tgt Ion: 73 Resp: 247923

Ion Ratio Lower Upper

73 100

43 16.2 12.9 19.3

57 22.4 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VV006477.D (-580) (-)

Ion 43.05 (42.75 to 43.75): VV006477.D (-580) (-)

Ion 57.10 (56.80 to 57.80): VV006477.D (-580) (-)

2.81

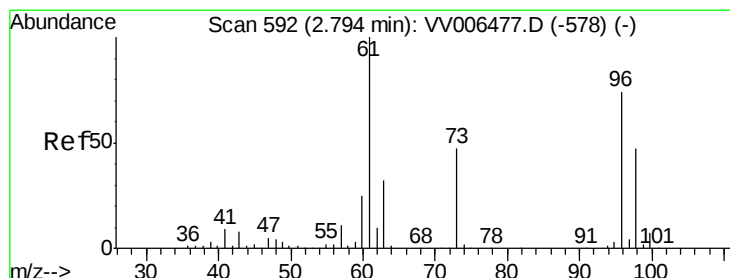
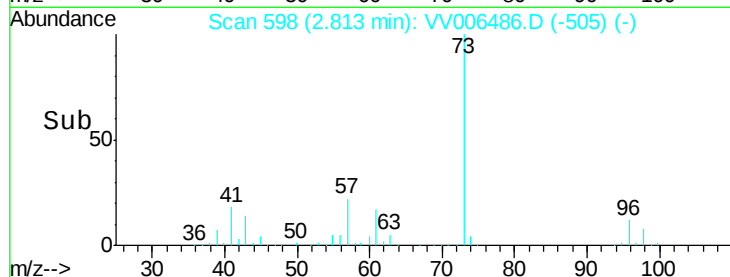
100000

50000

0

Time-->

2.70 2.80 2.90 3.00



#18

trans-1,2-Dichloroethene

Concen: 4.678 ug/L

RT: 2.79 min Scan# 592

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

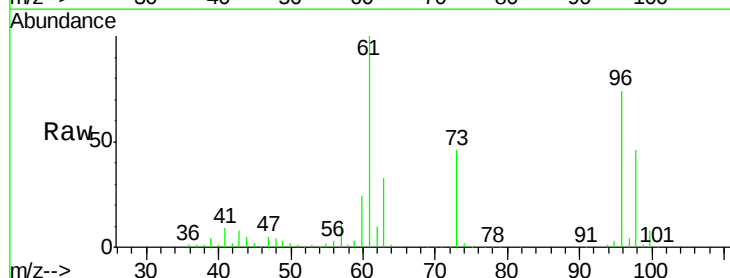
Tgt Ion: 96 Resp: 110482

Ion Ratio Lower Upper

96 100

61 135.8 94.4 175.2

98 62.9 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VV006477.D (-578) (-)

Ion 61.05 (60.75 to 61.75): VV006477.D (-578) (-)

Ion 97.95 (97.65 to 98.65): VV006477.D (-578) (-)

120000

100000

80000

60000

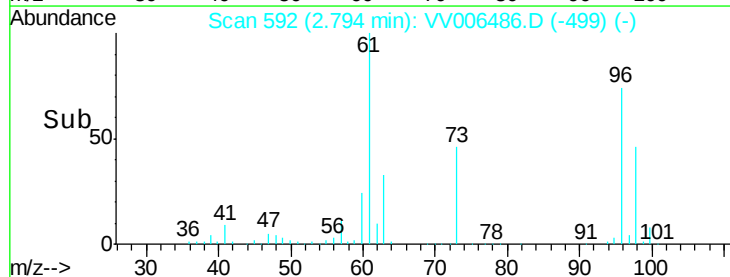
40000

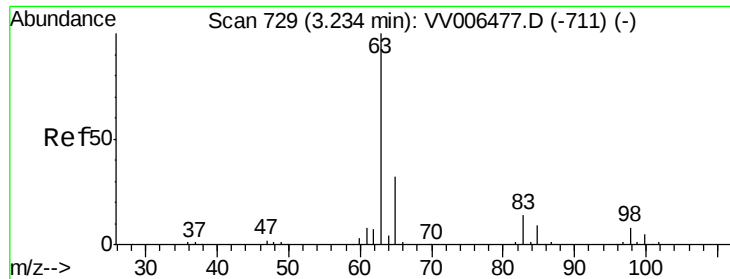
20000

0

Time-->

2.70 2.75 2.80 2.85

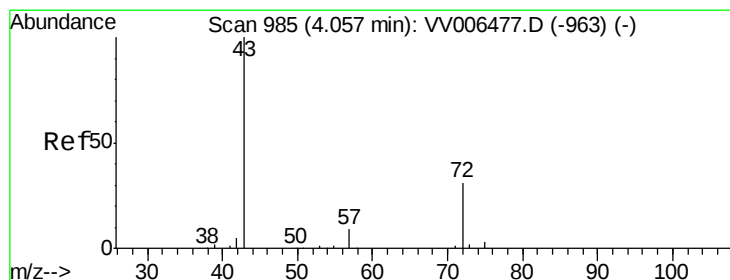
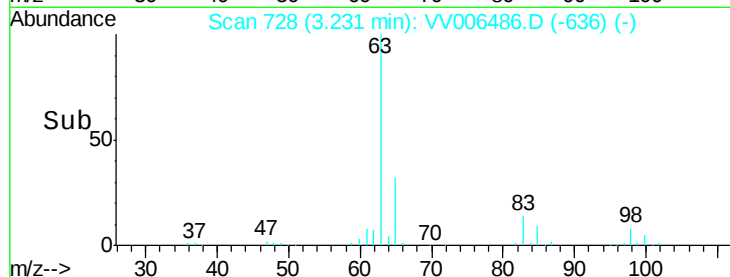
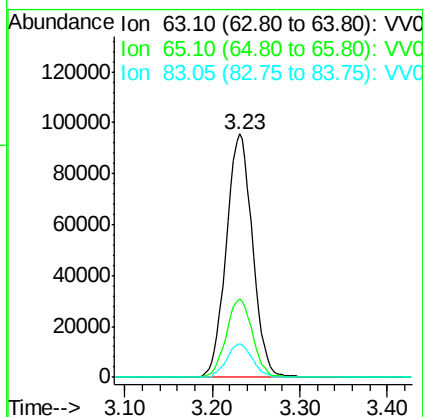
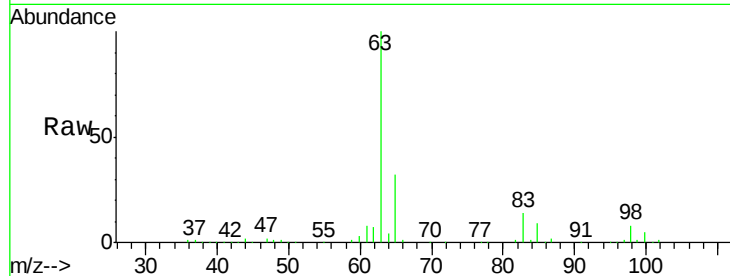




#19  
 1,1-Dichloroethane  
 Concen: 4.735 ug/L  
 RT: 3.23 min Scan# 728  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

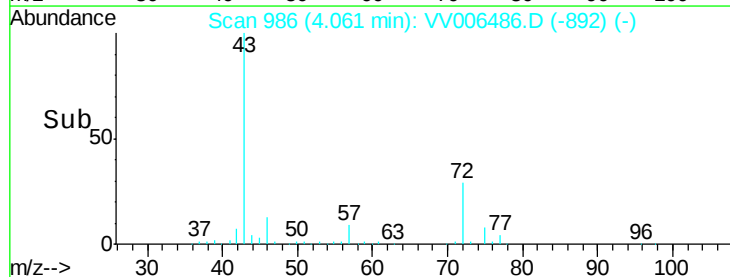
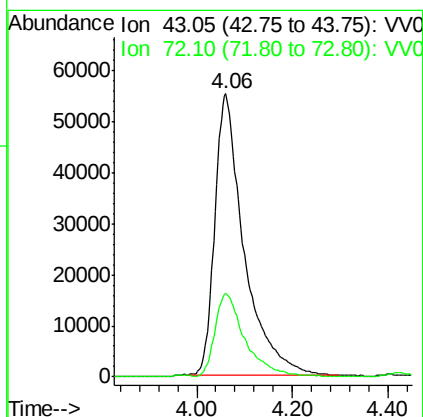
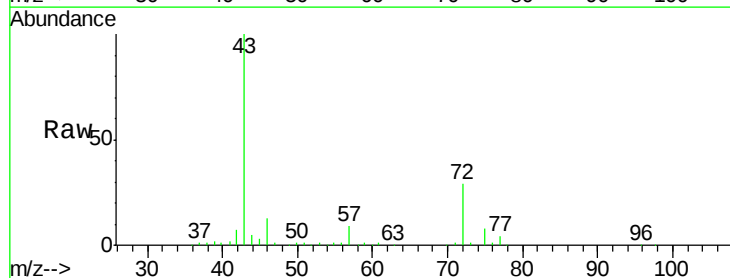
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

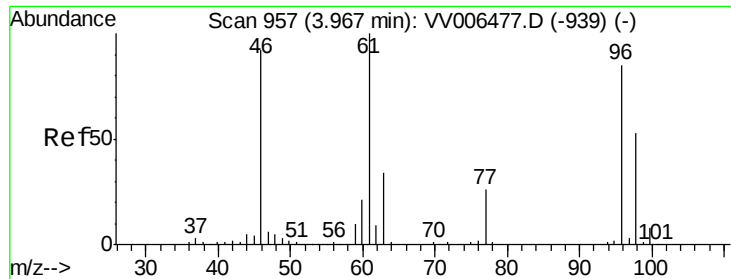
Tgt Ion: 63 Resp: 199177  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 22.2 41.2  
 83 13.9 9.2 17.2



#21  
 2-Butanone  
 Concen: 48.113 ug/L  
 RT: 4.06 min Scan# 986  
 Delta R.T. 0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 43 Resp: 234241  
 Ion Ratio Lower Upper  
 43 100  
 72 30.7 15.4 46.1

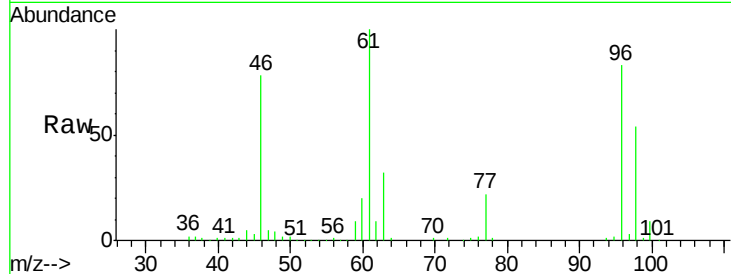




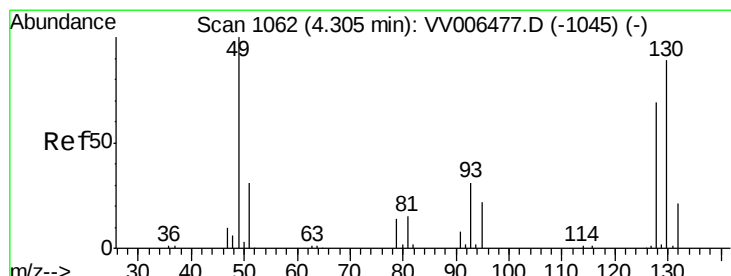
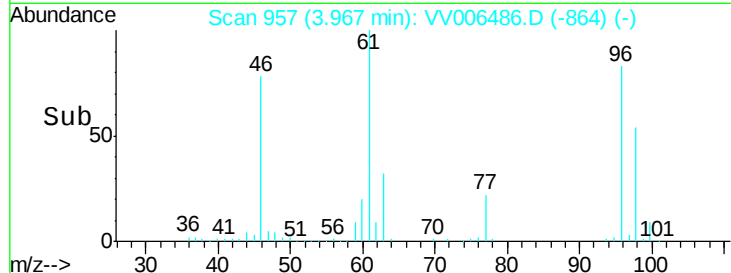
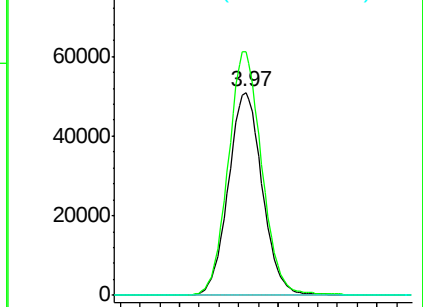
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.699 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Tgt Ion: 96 Resp: 122037  
 Ion Ratio Lower Upper  
 96 100  
 61 120.2 81.8 151.8  
 68 0.0 0.0 0.0

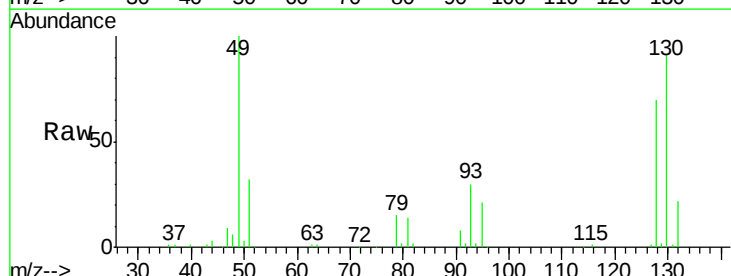


Abundance Ion 96.00 (95.70 to 96.70): VV006486.D (-864) (-)  
 Ion 61.05 (60.75 to 61.75): VV006486.D (-864) (-)  
 Ion 68.15 (67.85 to 68.85): VV006486.D (-864) (-)

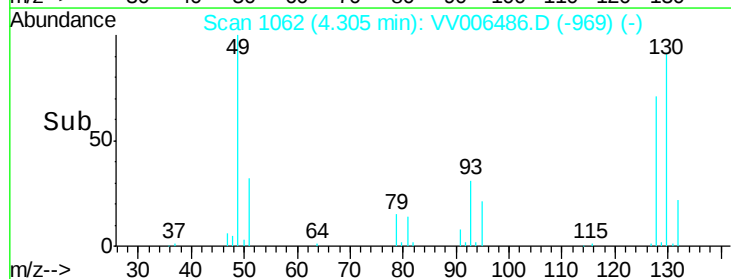
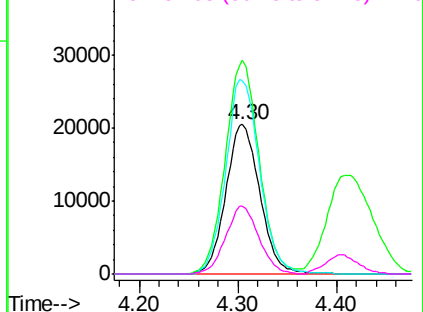


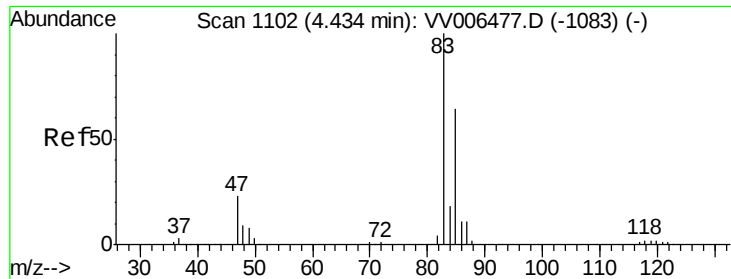
#23  
 Bromochloromethane  
 Concen: 4.676 ug/L  
 RT: 4.30 min Scan# 1062  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 128 Resp: 49346  
 Ion Ratio Lower Upper  
 128 100  
 49 142.8 101.2 188.0  
 130 129.4 93.0 172.6  
 51 45.4 37.0 55.6



Abundance Ion 127.90 (127.60 to 128.60): VV006486.D (-969) (-)  
 Ion 49.10 (48.80 to 49.80): VV006486.D (-969) (-)  
 Ion 129.95 (129.65 to 130.65): VV006486.D (-969) (-)  
 Ion 51.05 (50.75 to 51.75): VV006486.D (-969) (-)

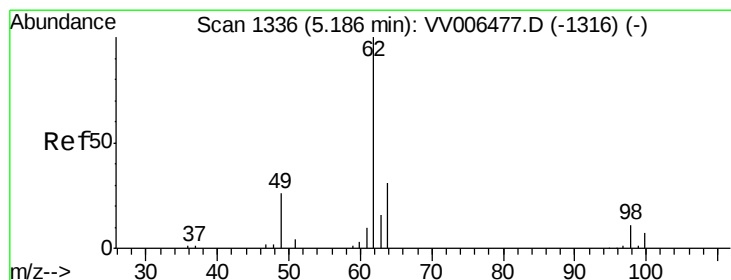
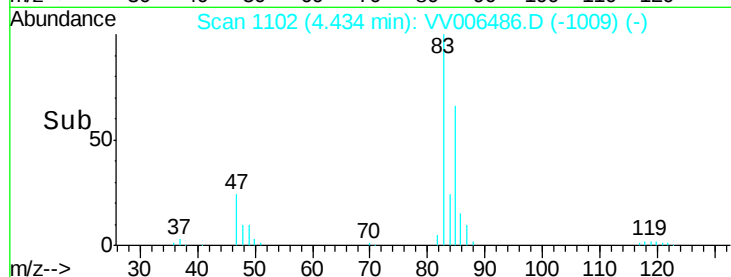
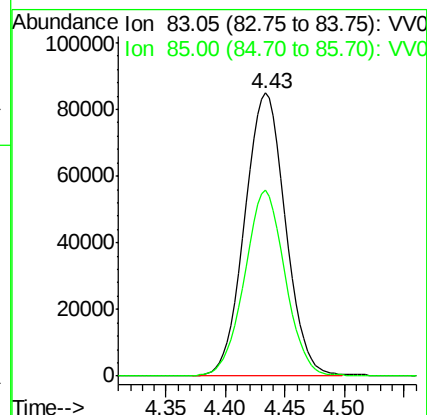
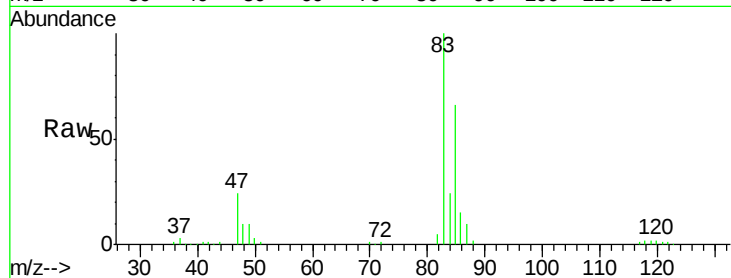




#25  
Chloroform  
Concen: 4.760 ug/L  
RT: 4.43 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

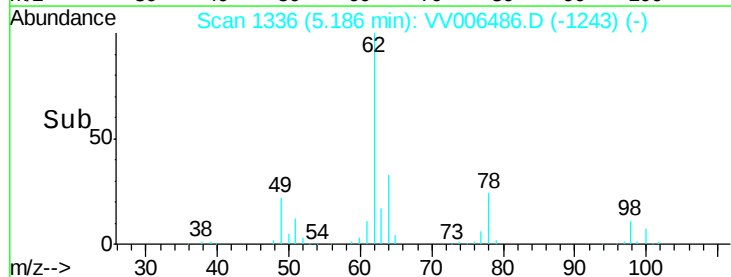
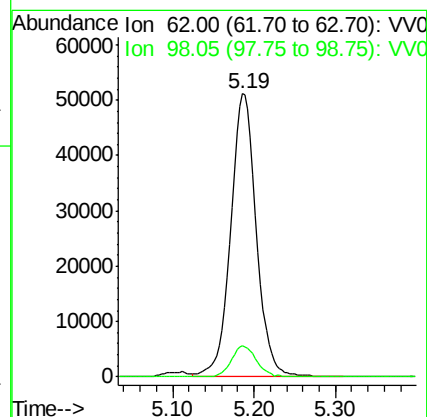
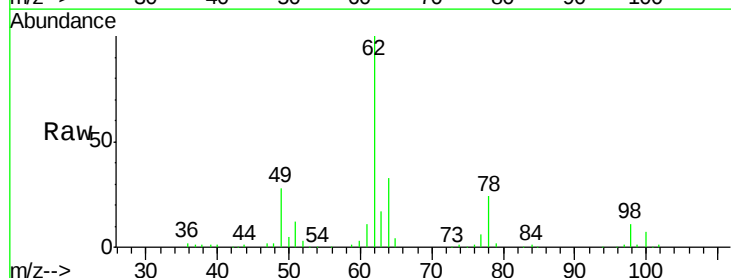
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

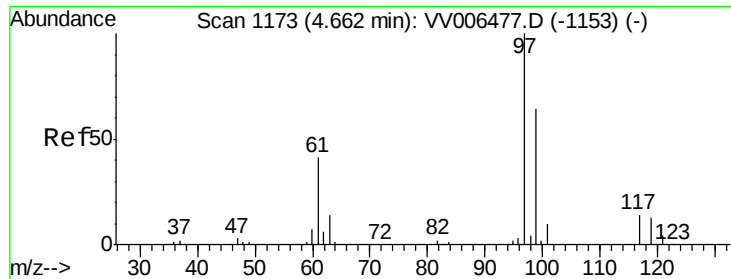
Tgt Ion: 83 Resp: 201826  
Ion Ratio Lower Upper  
83 100  
85 65.6 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 4.768 ug/L  
RT: 5.19 min Scan# 1336  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion: 62 Resp: 113585  
Ion Ratio Lower Upper  
62 100  
98 11.0 8.8 13.2

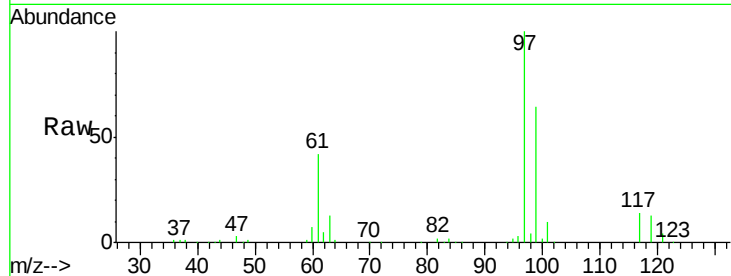




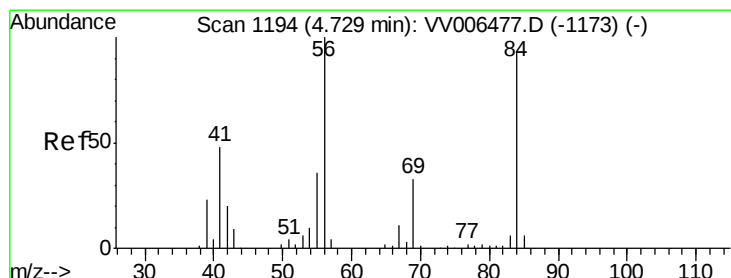
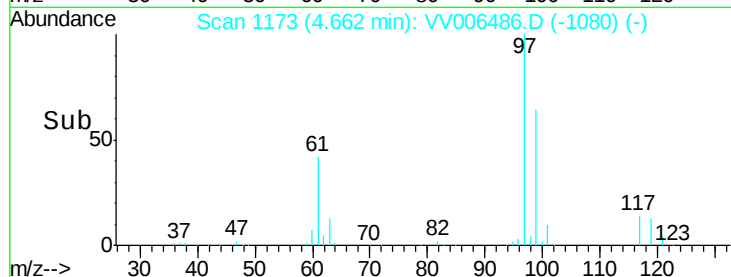
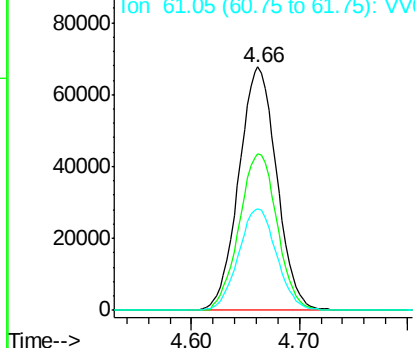
#29  
 1,1,1-Trichloroethane  
 Concen: 4.724 ug/L  
 RT: 4.66 min Scan# 1173  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Tgt Ion: 97 Resp: 165288  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.0 76.4  
 61 42.2 33.8 50.6

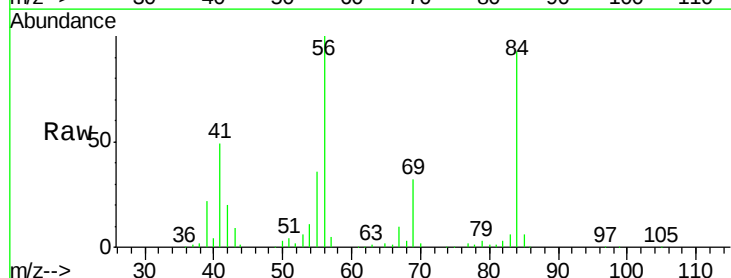


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

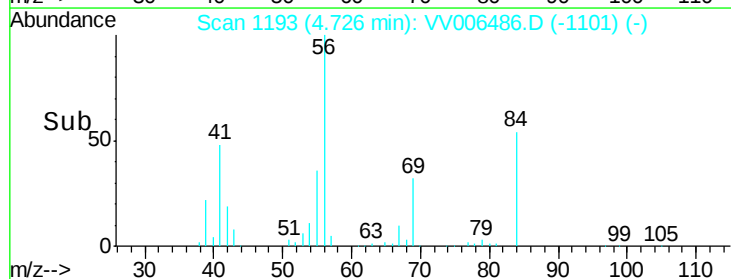
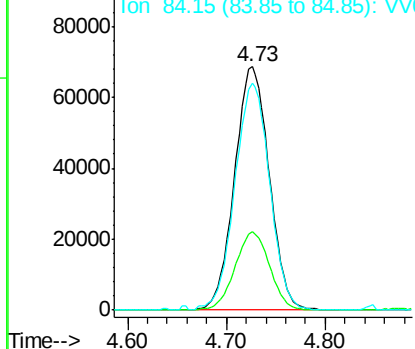


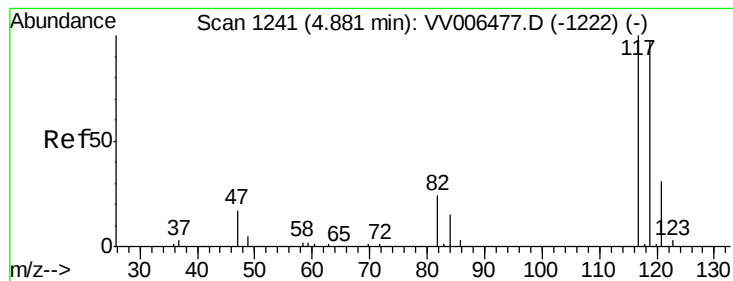
#30  
 Cyclohexane  
 Concen: 4.787 ug/L  
 RT: 4.73 min Scan# 1193  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 56 Resp: 167423  
 Ion Ratio Lower Upper  
 56 100  
 69 32.1 25.6 38.4  
 84 93.7 75.4 113.0



Abundance Ion 56.10 (55.80 to 56.80): VV0  
 Ion 69.15 (68.85 to 69.85): VV0  
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.702 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

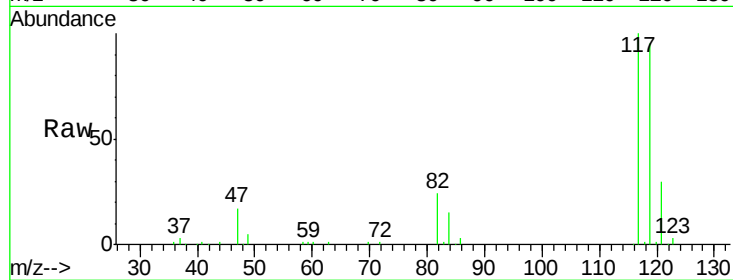
VSTD00566

Tgt Ion:117 Resp: 138001

Ion Ratio Lower Upper

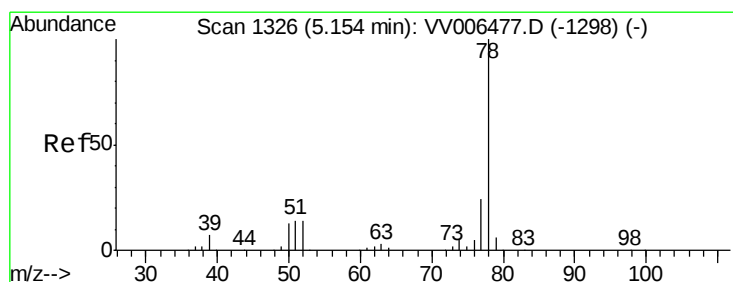
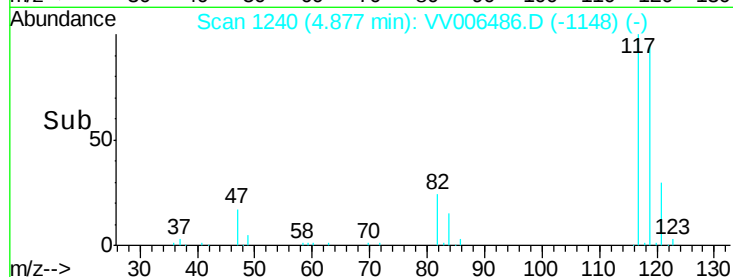
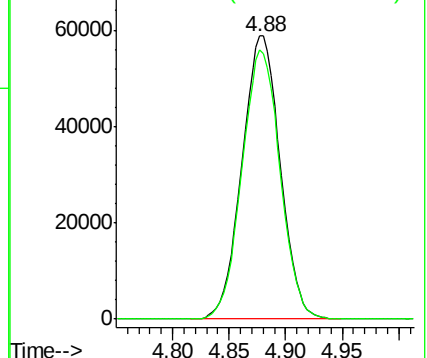
117 100

119 95.1 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.826 ug/L

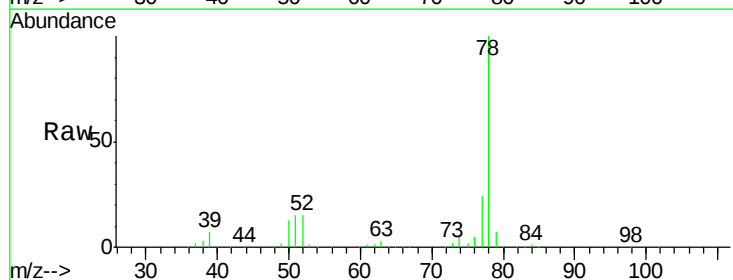
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

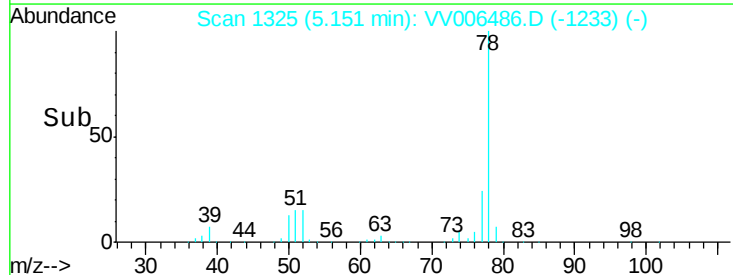
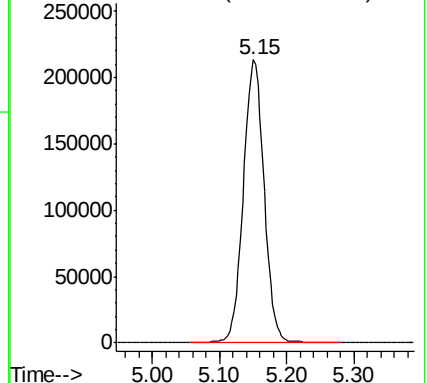
Lab File: VV006486.D

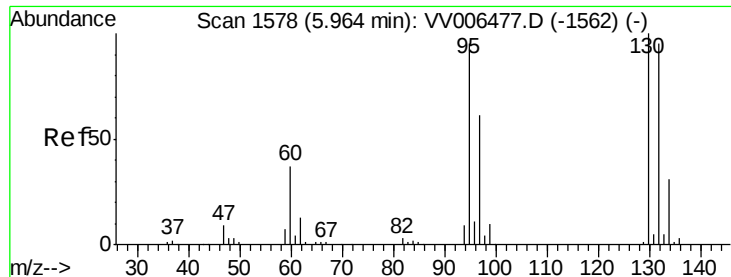
Acq: 28 Jun 2018 10:03

Tgt Ion: 78 Resp: 457355



Abundance Ion 78.10 (77.80 to 78.80): VV0

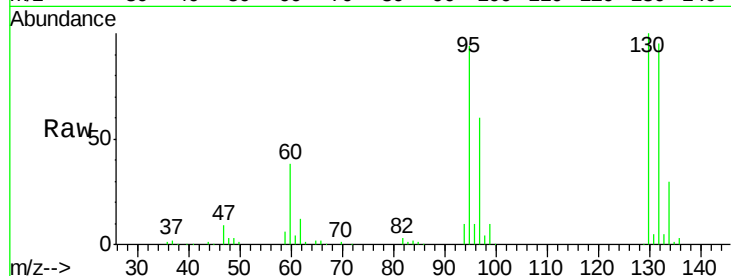




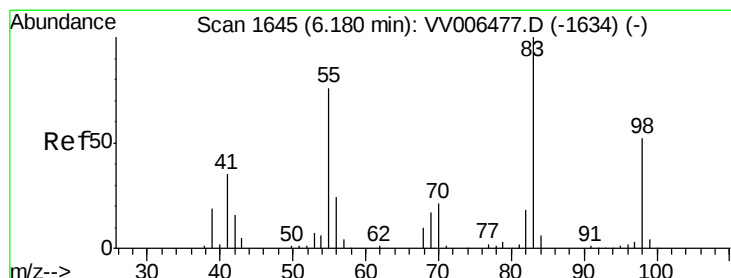
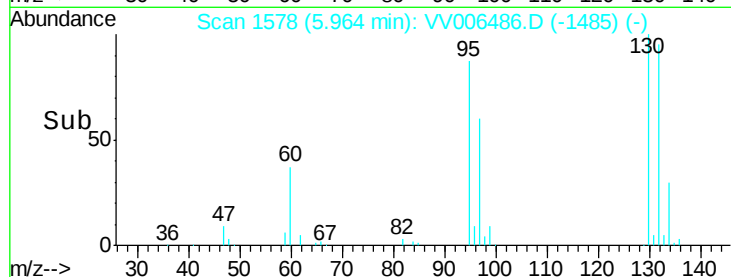
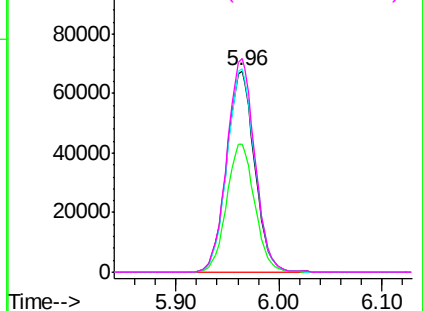
#34  
 Trichloroethene  
 Concen: 4.709 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Tgt Ion: 95 Resp: 127664  
 Ion Ratio Lower Upper  
 95 100  
 97 63.7 44.6 82.8  
 132 101.1 70.1 130.1  
 130 106.0 73.3 136.1

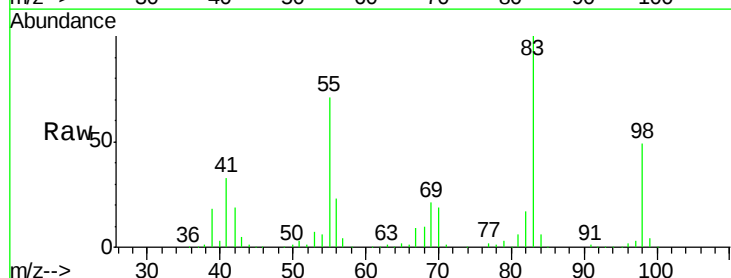


Abundance Ion 95.00 (94.70 to 95.70): VV006486.D (-1485) (-)  
 Ion 96.95 (96.65 to 97.65): VV006486.D (-1485) (-)  
 Ion 131.95 (131.65 to 132.65): VV006486.D (-1485) (-)  
 Ion 129.95 (129.65 to 130.65): VV006486.D (-1485) (-)

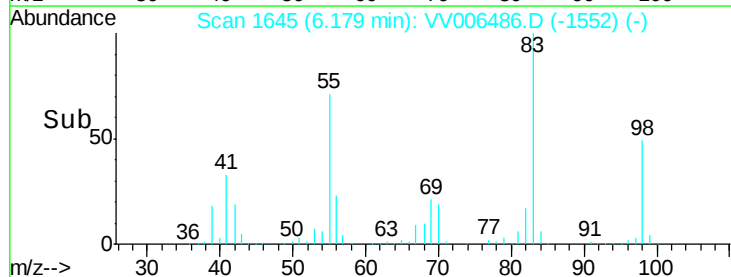
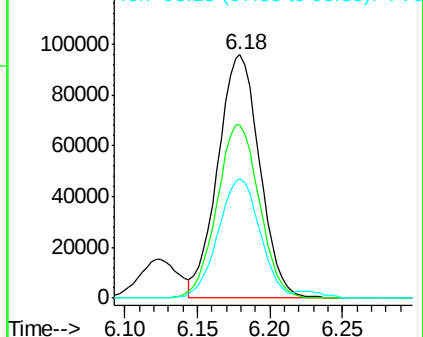


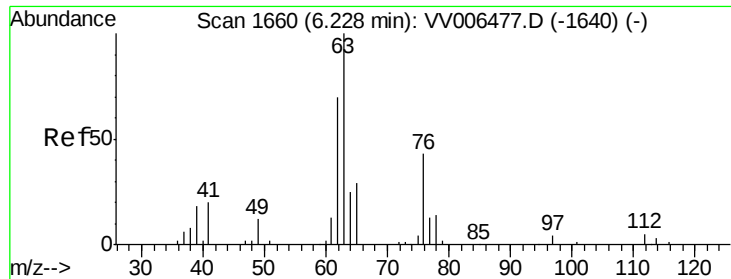
#35  
 Methylcyclohexane  
 Concen: 4.886 ug/L  
 RT: 6.18 min Scan# 1645  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 83 Resp: 192600  
 Ion Ratio Lower Upper  
 83 100  
 55 72.2 57.5 86.3  
 98 48.9 39.6 59.4



Abundance Ion 83.15 (82.85 to 83.85): VV006486.D (-1552) (-)  
 Ion 55.10 (54.80 to 55.80): VV006486.D (-1552) (-)  
 Ion 98.15 (97.85 to 98.85): VV006486.D (-1552) (-)

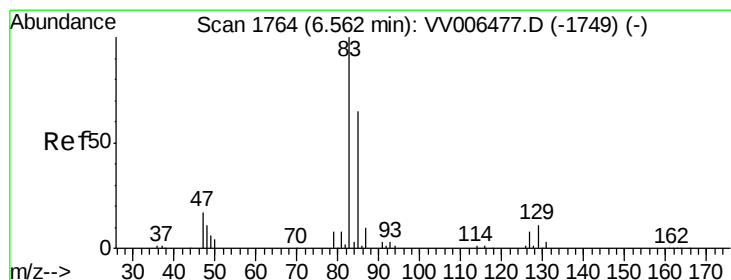
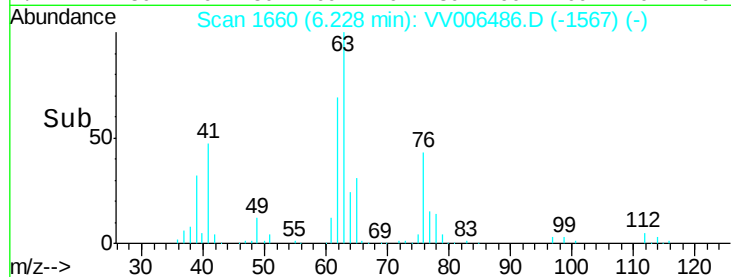
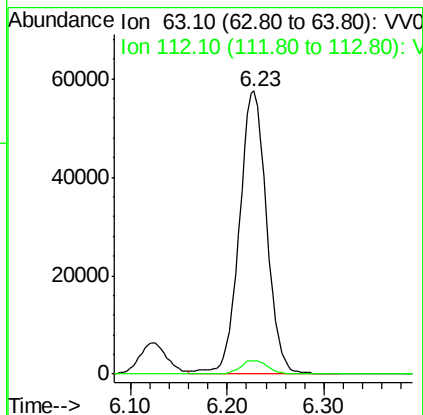
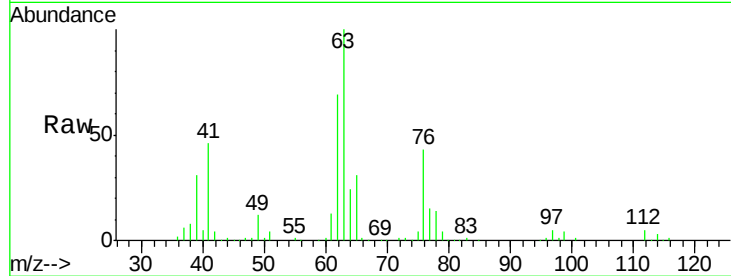




#37  
 1,2-Dichloropropane  
 Concen: 4.878 ug/L  
 RT: 6.23 min Scan# 1660  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

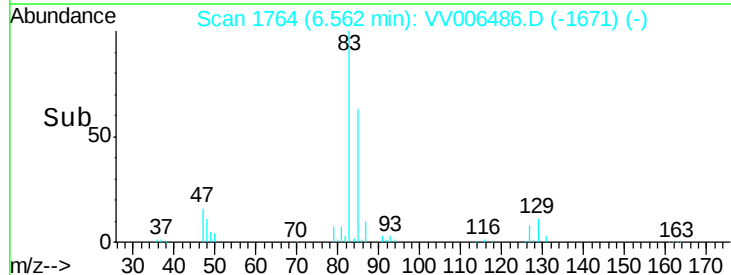
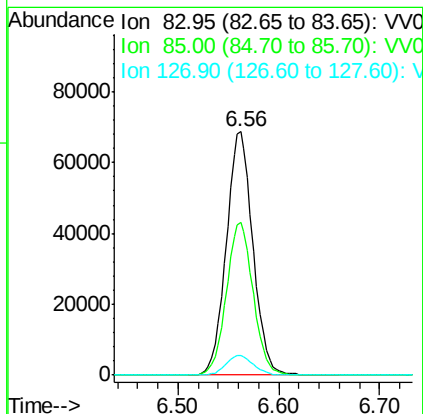
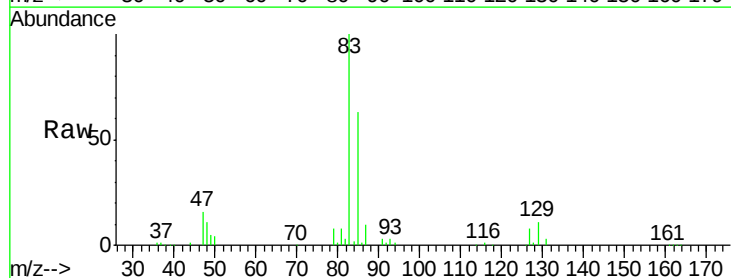
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

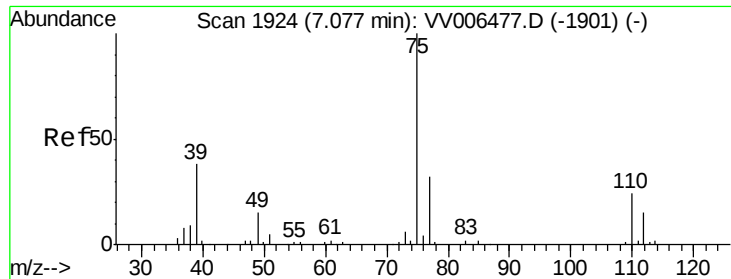
Tgt Ion: 63 Resp: 112972  
 Ion Ratio Lower Upper  
 63 100  
 112 4.8 4.0 6.0



#38  
 Bromodichloromethane  
 Concen: 4.736 ug/L  
 RT: 6.56 min Scan# 1764  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 83 Resp: 126242  
 Ion Ratio Lower Upper  
 83 100  
 85 62.7 45.1 83.9  
 127 8.0 6.6 9.8



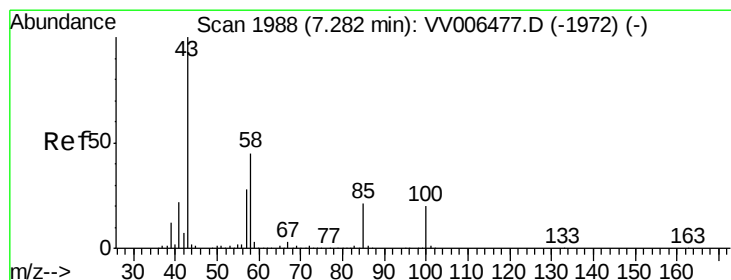
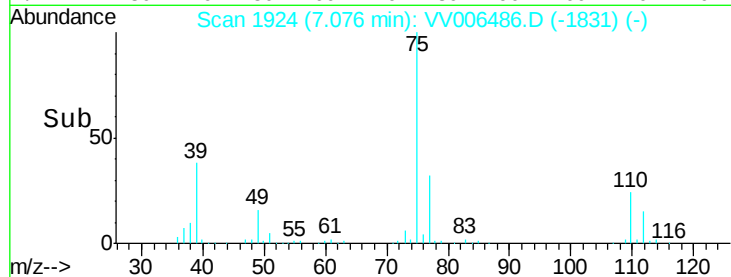
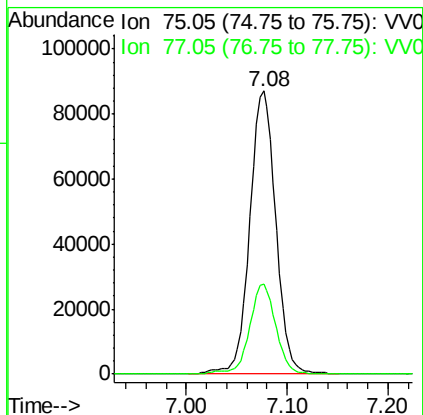
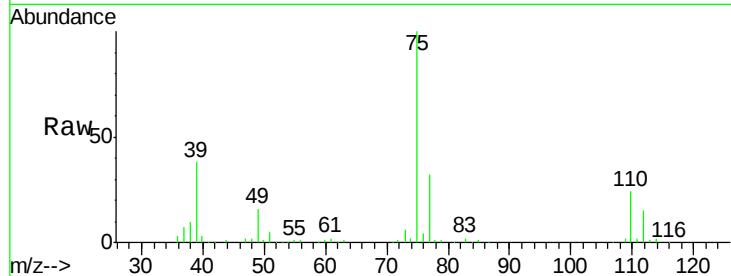


#39

cis-1,3-Dichloropropene  
 Concen: 4.798 ug/L  
 RT: 7.08 min Scan# 1924  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

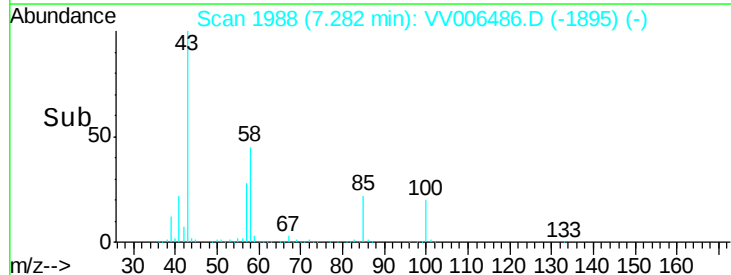
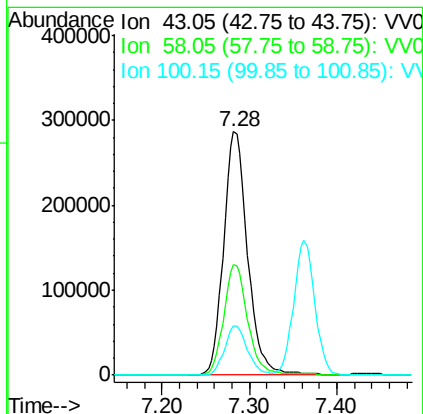
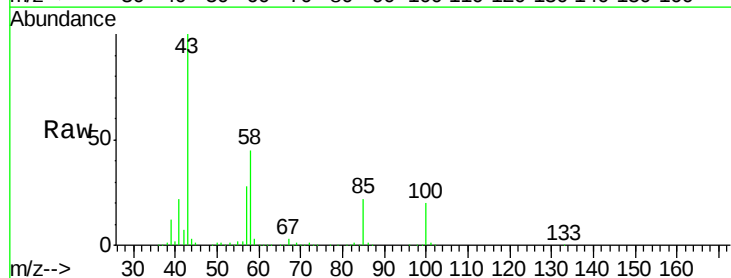
Tgt Ion: 75 Resp: 154611  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 22.3 41.3

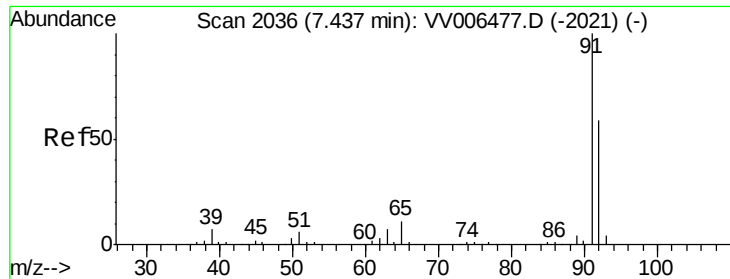


#40

4-Methyl-2-pentanone  
 Concen: 48.459 ug/L  
 RT: 7.28 min Scan# 1988  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion: 43 Resp: 546056  
 Ion Ratio Lower Upper  
 43 100  
 58 44.9 35.4 53.2  
 100 19.4 15.5 23.3





#42

Toluene

Concen: 4.831 ug/L

RT: 7.43 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

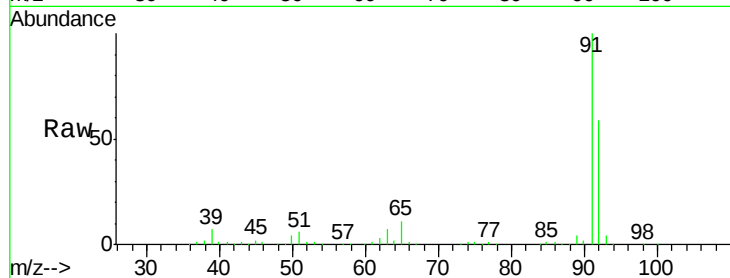
VSTD00566

Tgt Ion: 91 Resp: 484777

Ion Ratio Lower Upper

91 100

92 58.9 41.2 76.4



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

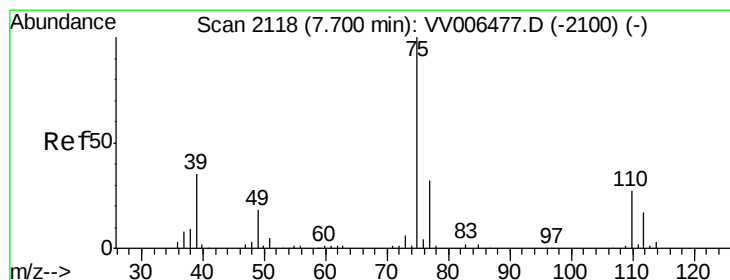
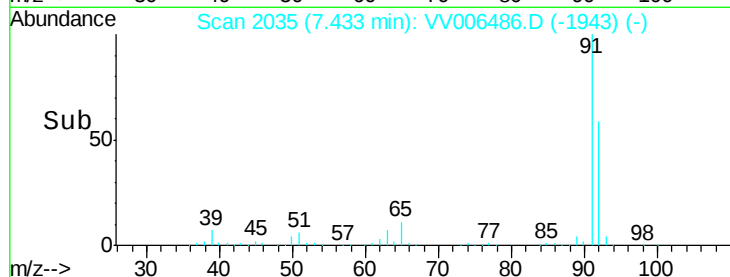
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.753 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006486.D

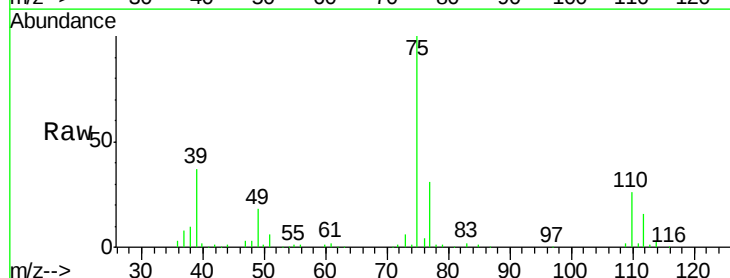
Acq: 28 Jun 2018 10:03

Tgt Ion: 75 Resp: 120140

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

80000

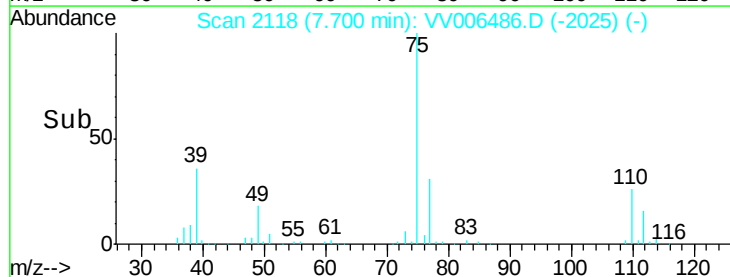
60000

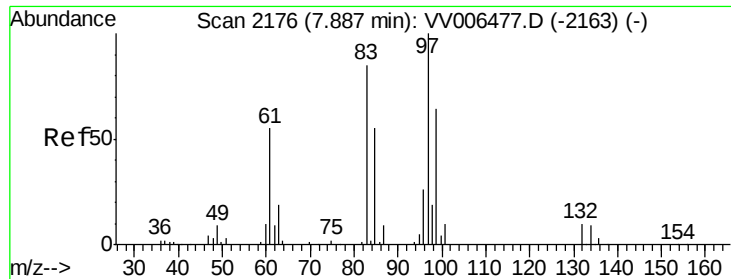
40000

20000

0

Time-->

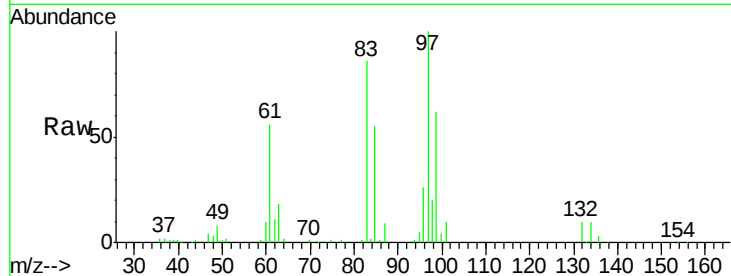




#45  
 1,1,2-Trichloroethane  
 Concen: 4.893 ug/L  
 RT: 7.89 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 78257 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.5  | 44.2  | 82.2  |
| 83       | 85.6  | 59.0  | 109.6 |
| 85       | 54.9  | 36.8  | 68.3  |

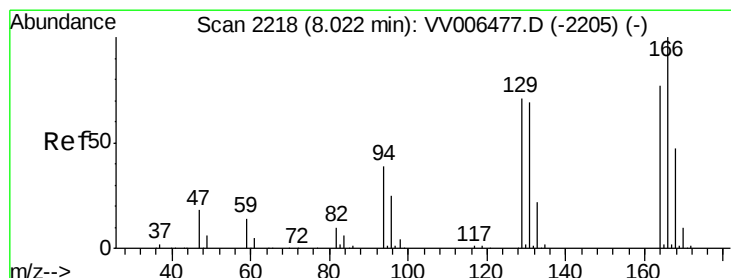
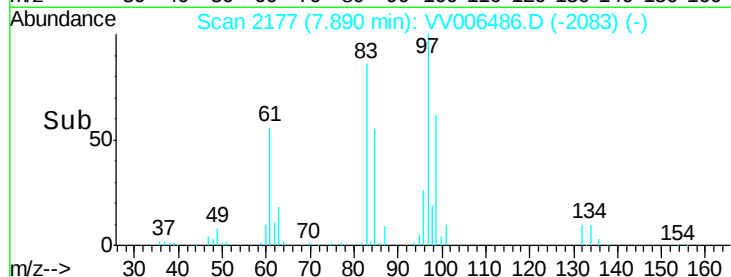
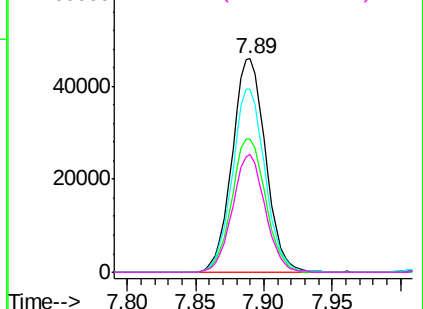


Abundance Ion 96.95 (96.65 to 97.65): VV006486.D (-2177) (-)

Ion 99.05 (98.75 to 99.75): VV006486.D (-2177) (-)

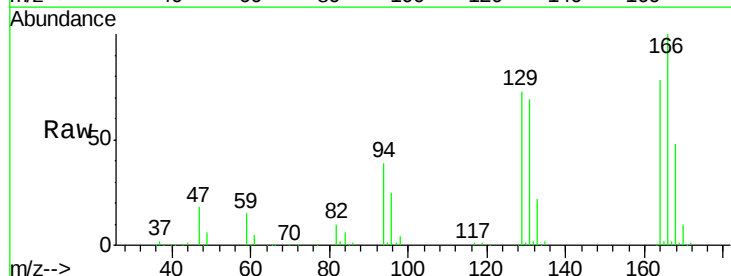
Ion 82.95 (82.65 to 83.65): VV006486.D (-2177) (-)

Ion 85.00 (84.70 to 85.70): VV006486.D (-2177) (-)



#47  
 Tetrachloroethene  
 Concen: 4.820 ug/L  
 RT: 8.02 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 98727 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.0  | 64.0  | 118.8 |
| 131      | 88.0  | 61.7  | 114.5 |
| 166      | 128.0 | 89.0  | 165.2 |

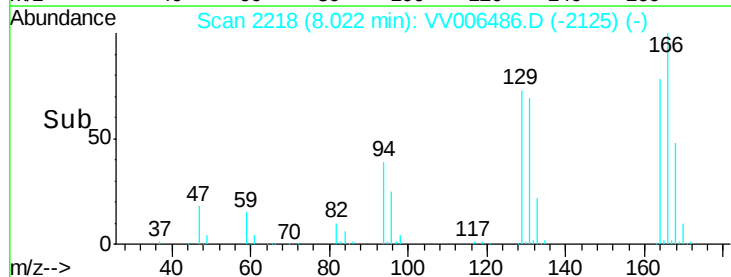
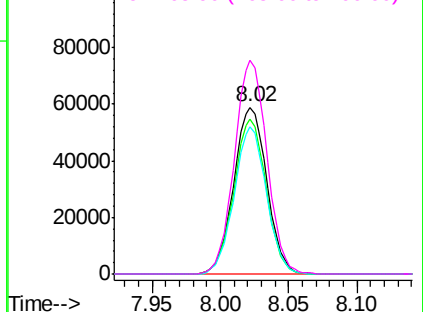


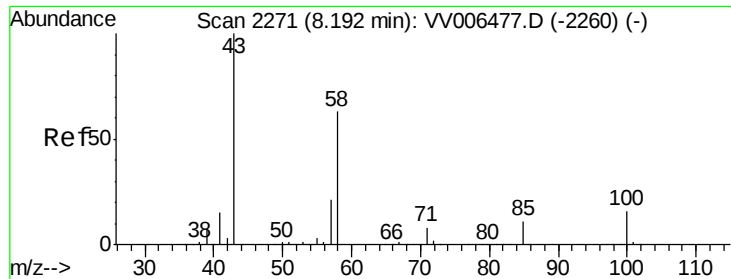
Abundance Ion 163.90 (163.60 to 164.60): VV006486.D (-2218) (-)

Ion 128.95 (128.65 to 129.65): VV006486.D (-2218) (-)

Ion 130.95 (130.65 to 131.65): VV006486.D (-2218) (-)

Ion 165.90 (165.60 to 166.60): VV006486.D (-2218) (-)

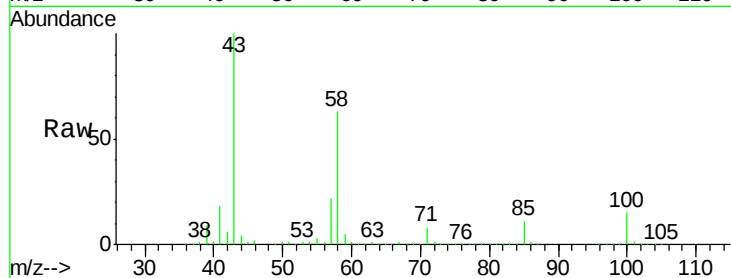




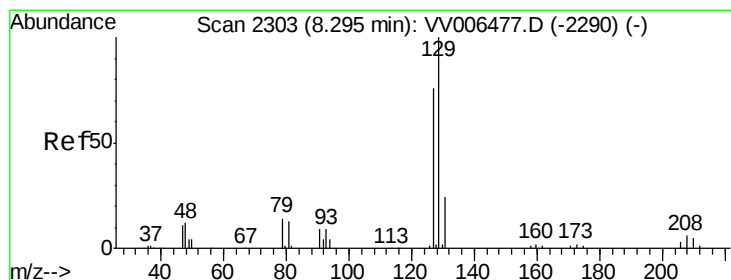
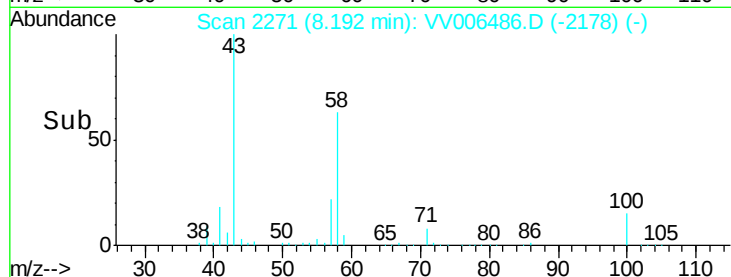
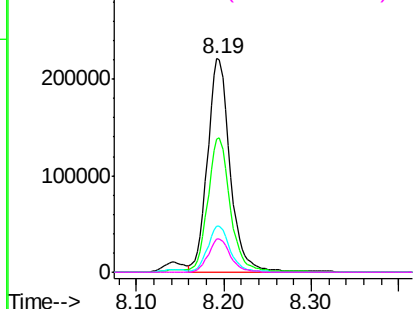
#48  
2-Hexanone  
Concen: 48.806 ug/L  
RT: 8.19 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

Tgt Ion: 43 Resp: 395659  
Ion Ratio Lower Upper  
43 100  
58 62.9 49.9 74.9  
57 21.8 17.3 25.9  
100 15.5 12.5 18.7

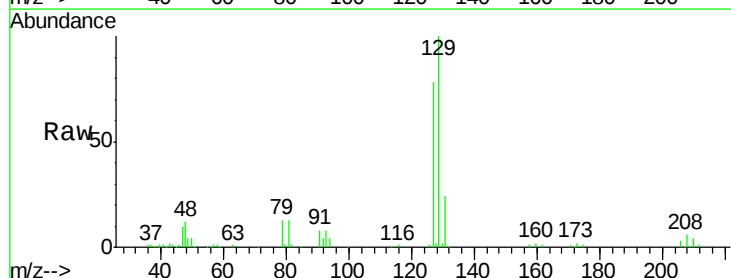


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

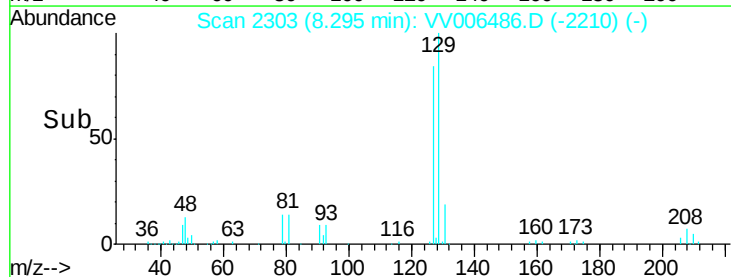
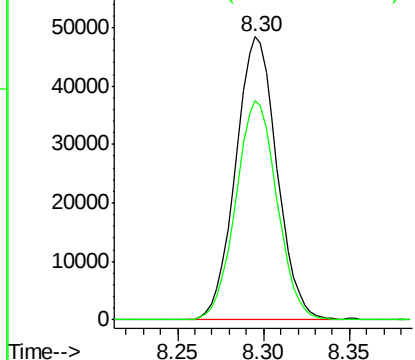


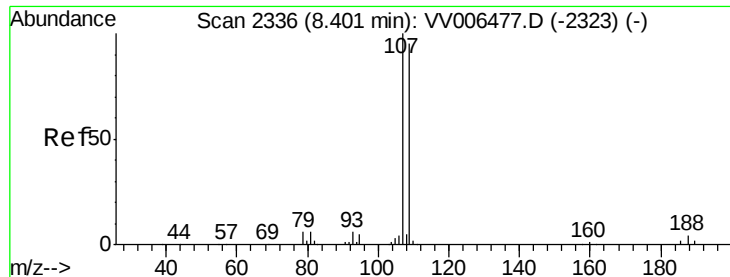
#49  
Dibromochloromethane  
Concen: 4.741 ug/L  
RT: 8.30 min Scan# 2303  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion: 129 Resp: 80828  
Ion Ratio Lower Upper  
129 100  
127 77.6 54.0 100.2



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

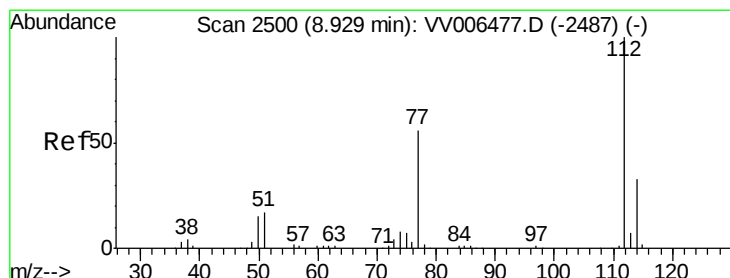
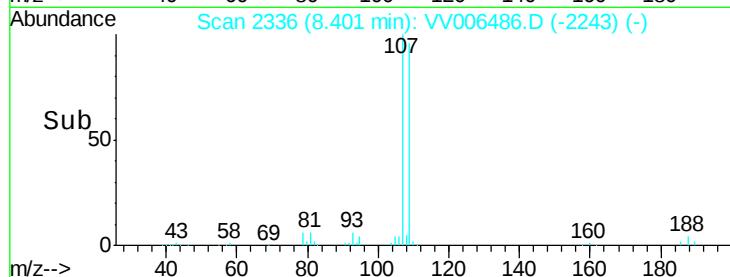
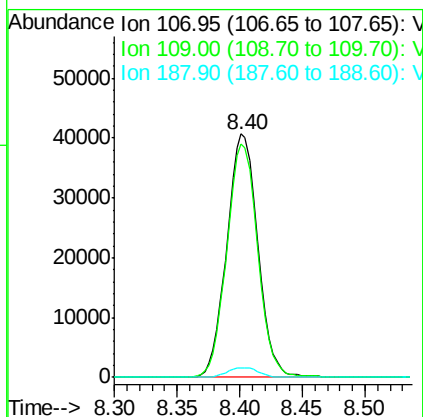
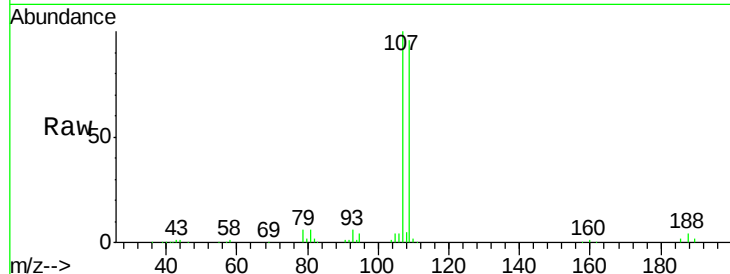




#50  
1,2-Dibromoethane  
Concen: 4.857 ug/L  
RT: 8.40 min Scan# 2336  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

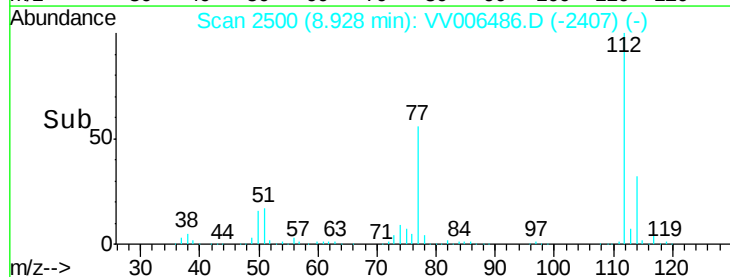
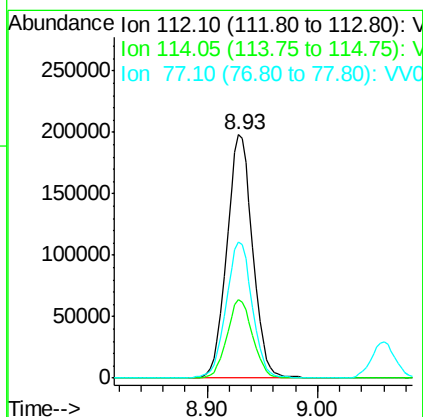
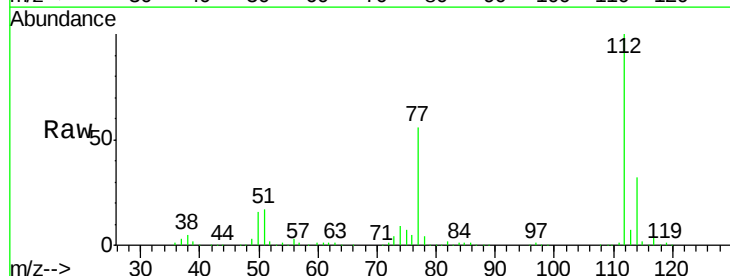
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD00566

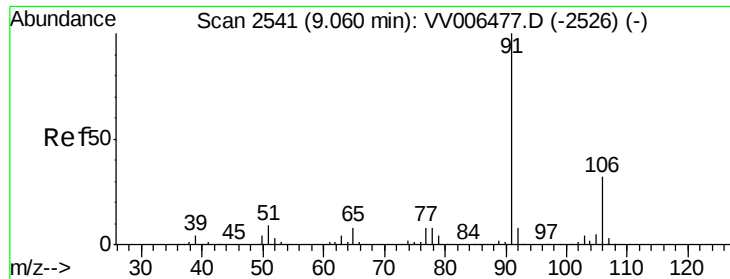
Tgt Ion:107 Resp: 69836  
Ion Ratio Lower Upper  
107 100  
109 96.1 64.3 119.5  
188 4.0 3.0 4.6



#51  
Chlorobenzene  
Concen: 4.830 ug/L  
RT: 8.93 min Scan# 2500  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion:112 Resp: 320724  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.8 42.4  
77 55.8 44.6 66.8

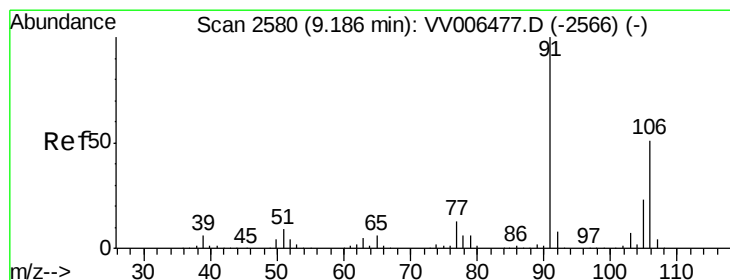
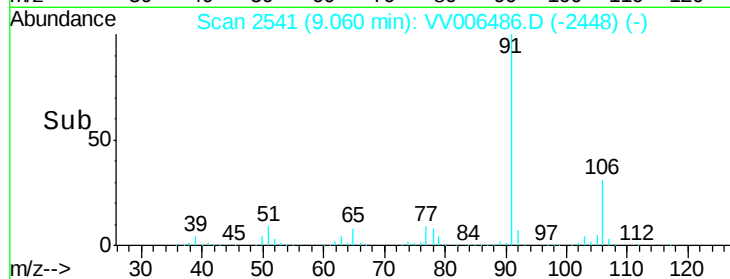
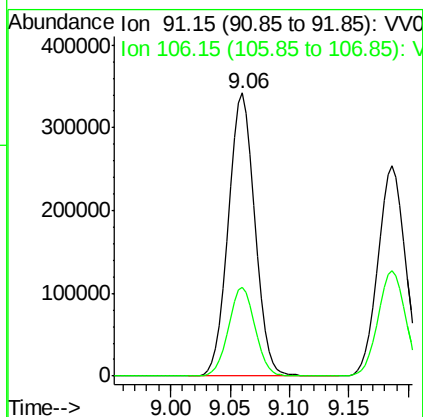
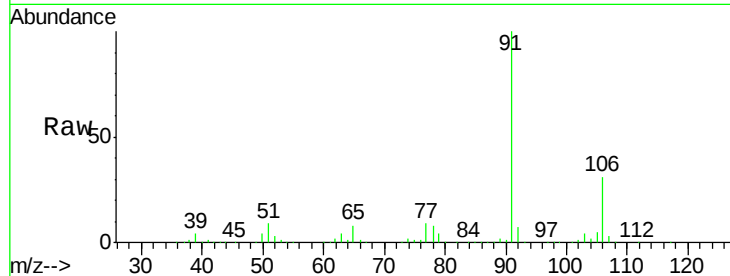




#52  
Ethylbenzene  
Concen: 4.874 ug/L  
RT: 9.06 min Scan# 2541  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

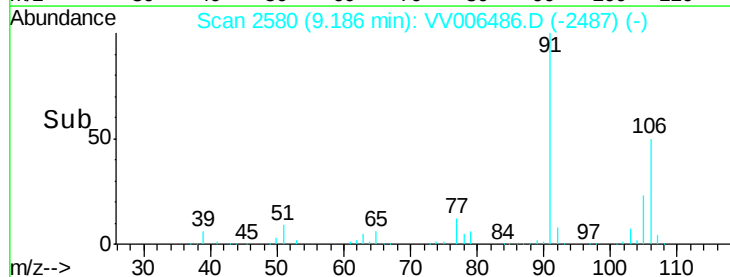
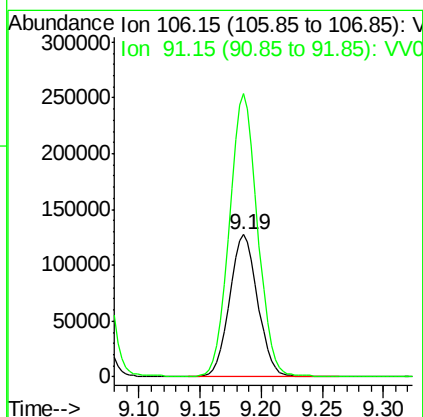
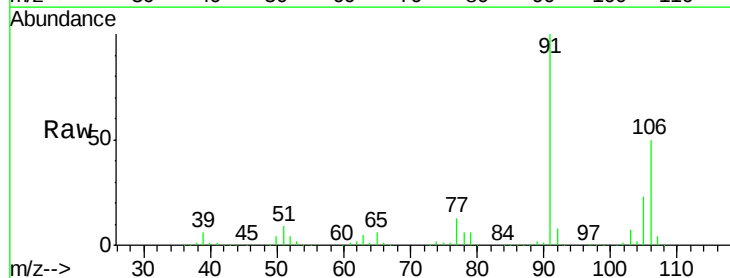
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

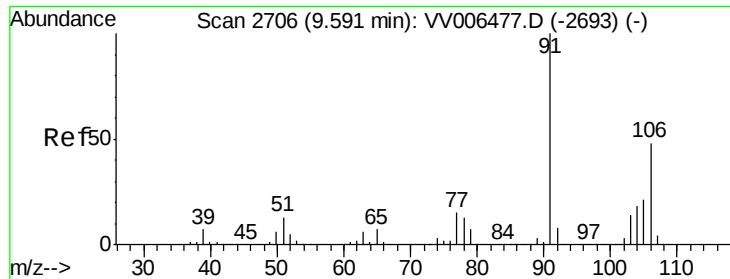
Tgt Ion: 91 Resp: 529540  
Ion Ratio Lower Upper  
91 100  
106 31.5 22.2 41.2



#53  
m,p-xylene  
Concen: 4.915 ug/L  
RT: 9.19 min Scan# 2580  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion: 106 Resp: 205950  
Ion Ratio Lower Upper  
106 100  
91 199.0 138.8 257.8

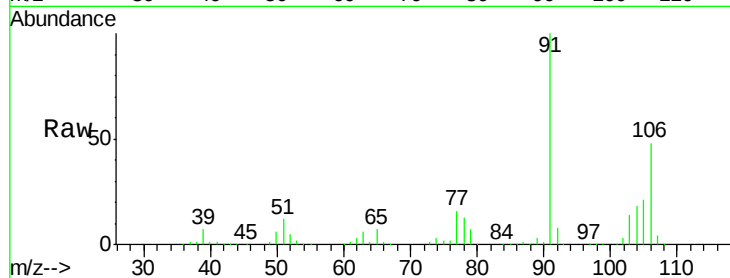




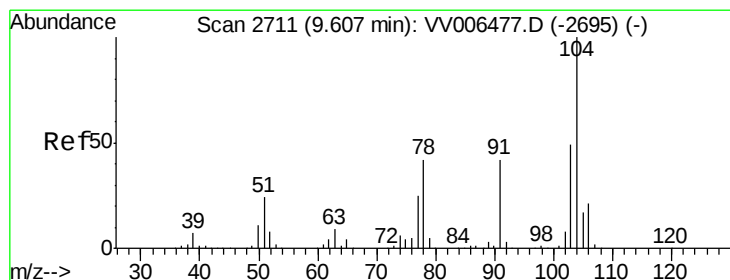
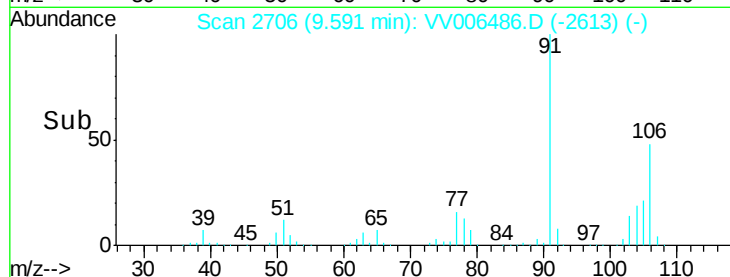
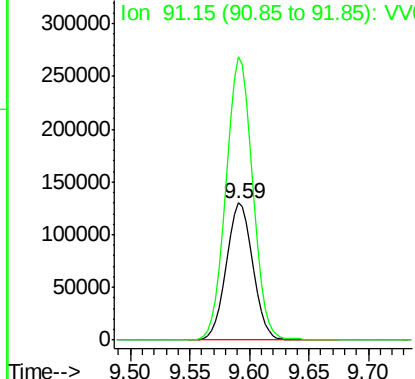
#54  
o-xylene  
Concen: 4.896 ug/L  
RT: 9.59 min Scan# 2706  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00566

Tgt Ion:106 Resp: 201259  
Ion Ratio Lower Upper  
106 100  
91 206.8 145.7 270.7

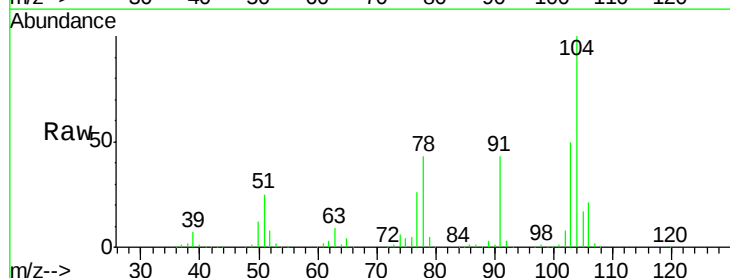


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

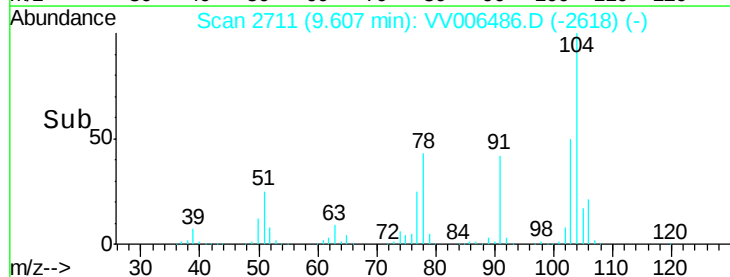
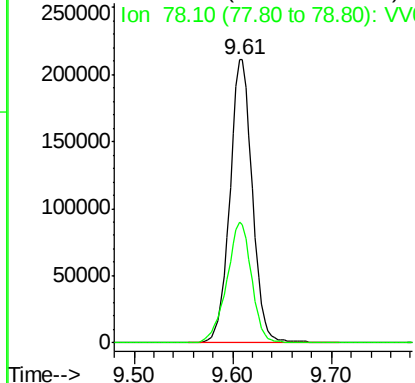


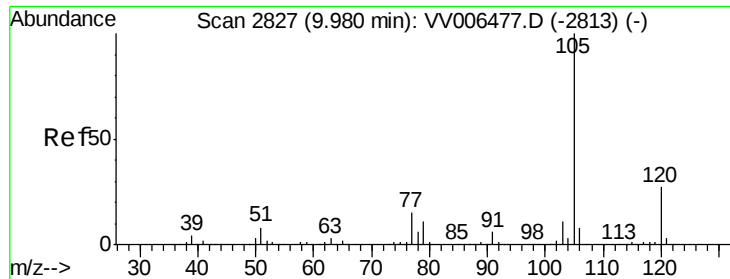
#55  
Styrene  
Concen: 5.010 ug/L  
RT: 9.61 min Scan# 2711  
Delta R.T. -0.00 min  
Lab File: VV006486.D  
Acq: 28 Jun 2018 10:03

Tgt Ion:104 Resp: 336916  
Ion Ratio Lower Upper  
104 100  
78 42.7 29.1 54.1



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.918 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00566

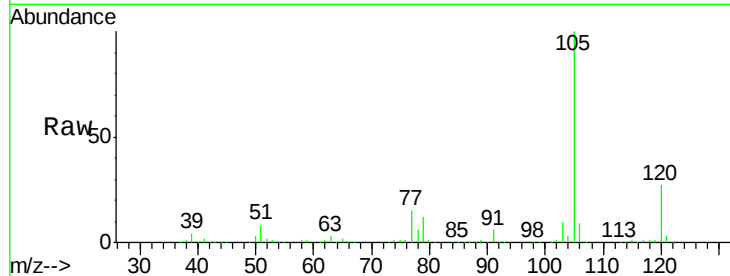
Tgt Ion: 105 Resp: 526759

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

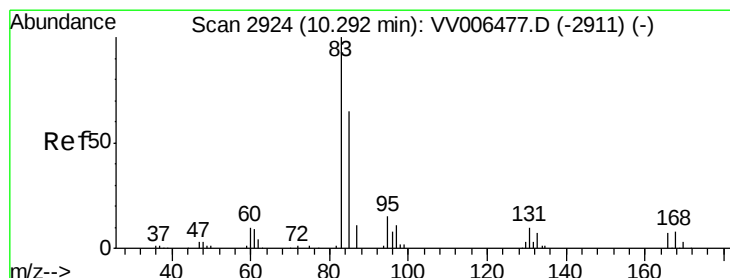
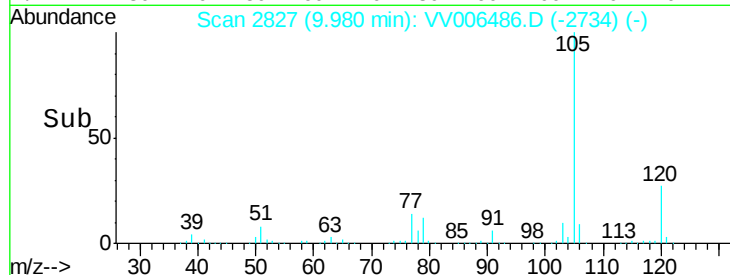
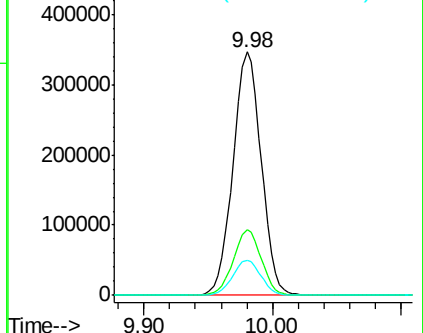
77 14.5 11.8 17.8



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



#58

1,1,2,2-Tetrachloroethane

Concen: 4.729 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

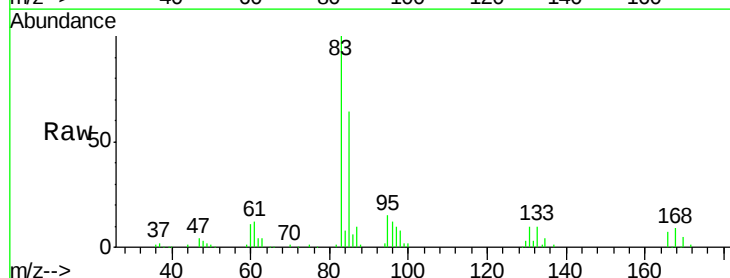
Tgt Ion: 83 Resp: 71329

Ion Ratio Lower Upper

83 100

85 64.1 44.8 83.2

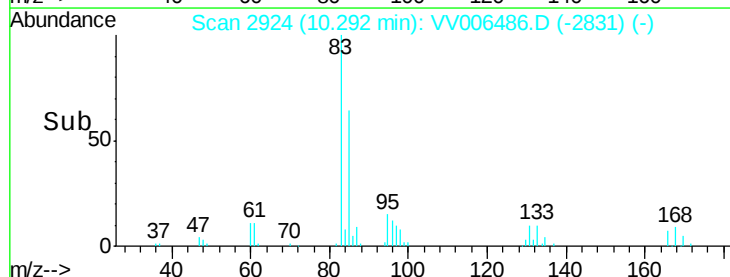
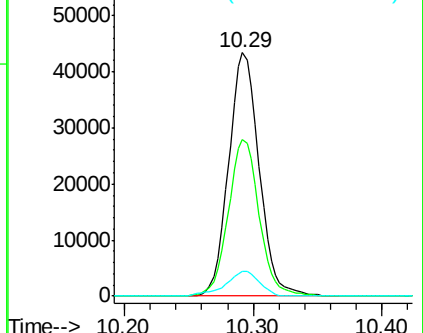
131 9.9 7.9 11.9

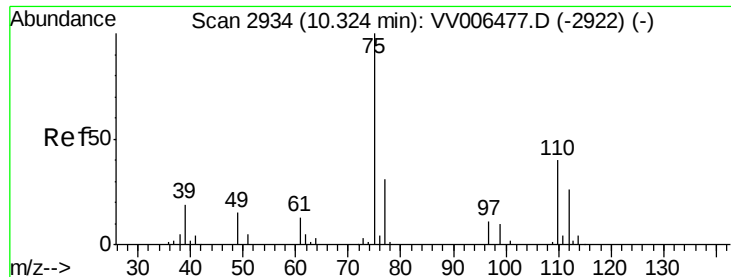


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.899 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

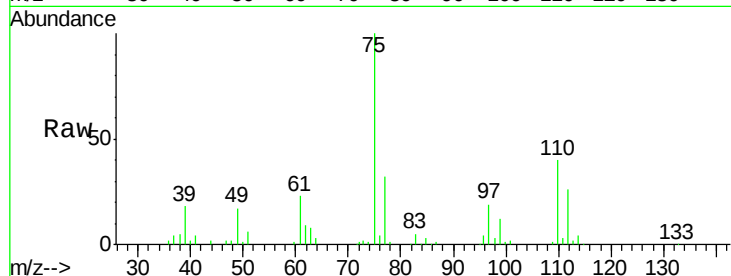
VSTD00566

Tgt Ion: 75 Resp: 61711

Ion Ratio Lower Upper

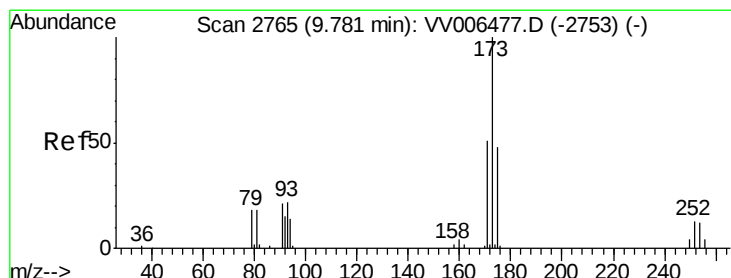
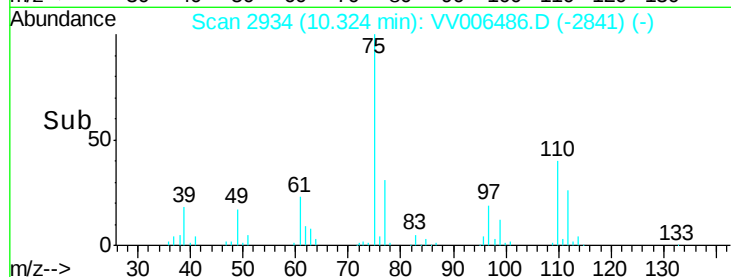
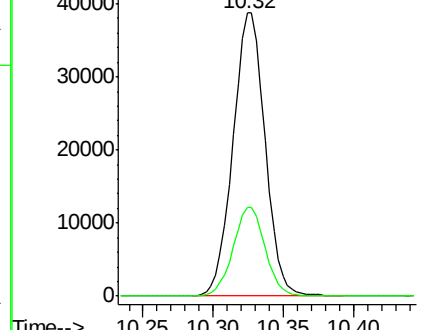
75 100

77 31.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV006477.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006477.D (-2922) (-)



#61

Bromoform

Concen: 4.548 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

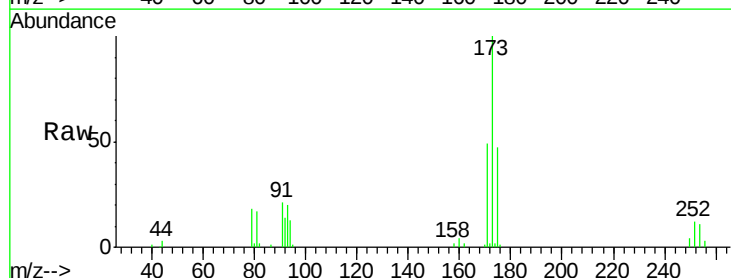
Tgt Ion: 173 Resp: 40348

Ion Ratio Lower Upper

173 100

175 47.3 38.8 58.2

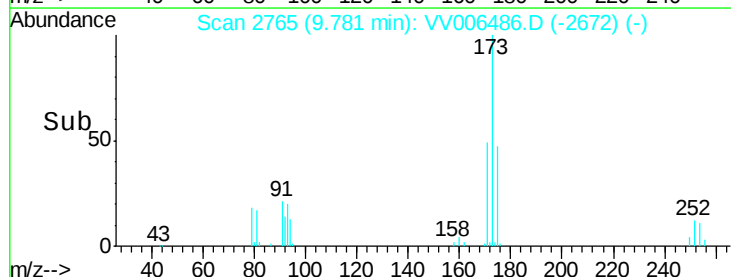
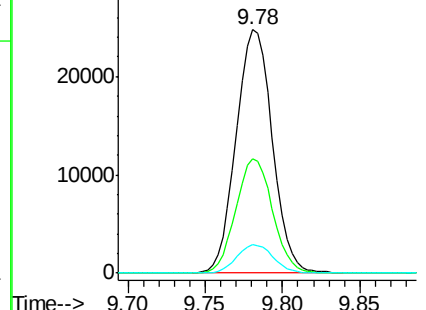
254 11.7 9.0 13.6

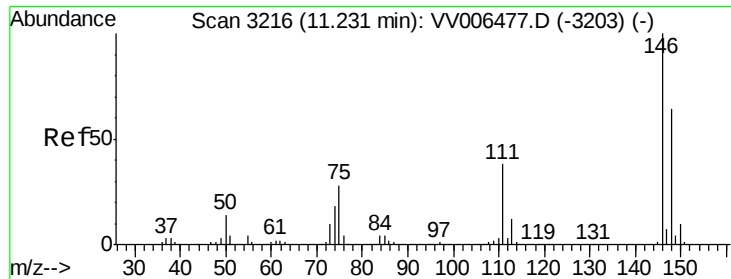


Abundance Ion 172.90 (172.60 to 173.60): VV006477.D (-2753) (-)

Ion 174.90 (174.60 to 175.60): VV006477.D (-2753) (-)

Ion 253.75 (253.45 to 254.45): VV006477.D (-2753) (-)

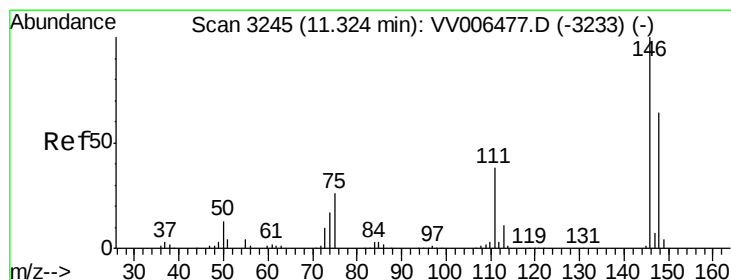
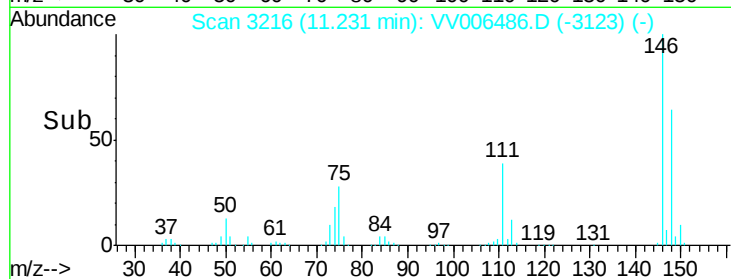
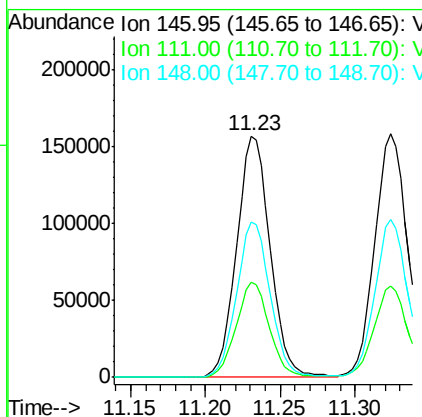
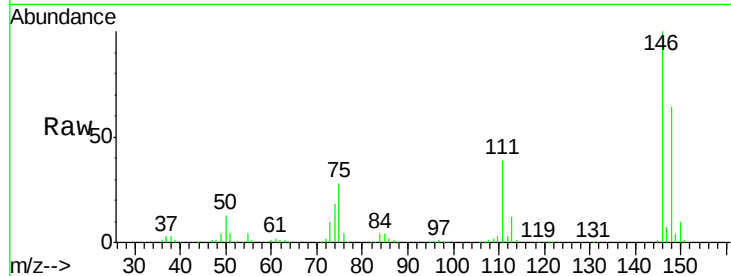




#62  
 1,3-Dichlorobenzene  
 Concen: 4.716 ug/L  
 RT: 11.23 min Scan# 3216  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

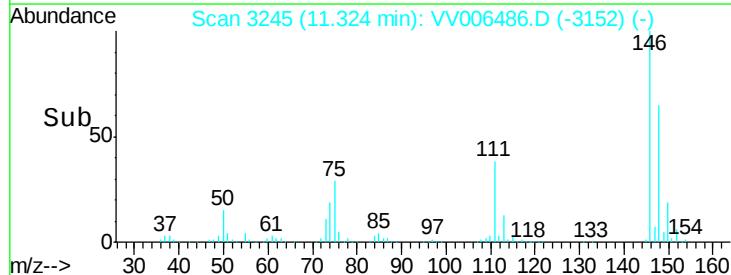
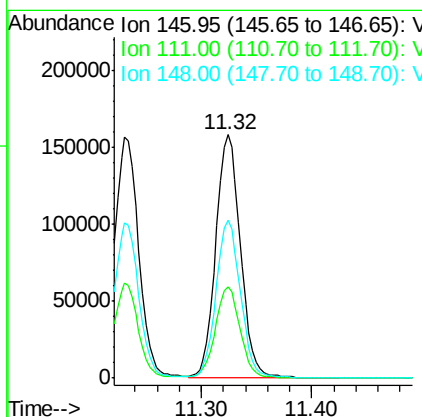
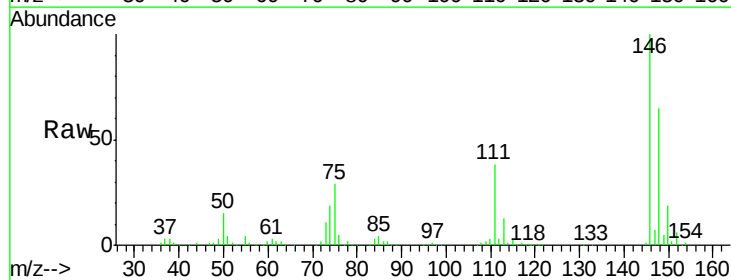
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

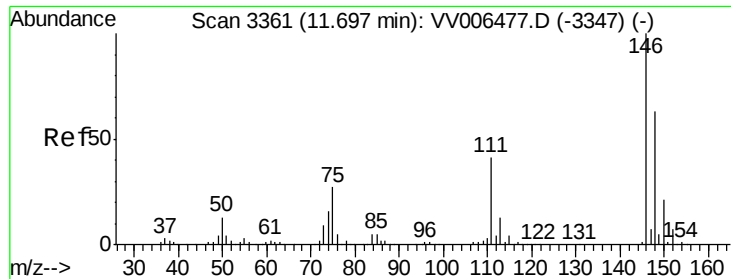
Tgt Ion:146 Resp: 245590  
 Ion Ratio Lower Upper  
 146 100  
 111 39.3 27.4 51.0  
 148 64.3 44.1 81.9



#63  
 1,4-Dichlorobenzene  
 Concen: 4.739 ug/L  
 RT: 11.32 min Scan# 3245  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion:146 Resp: 246800  
 Ion Ratio Lower Upper  
 146 100  
 111 37.6 26.3 48.9  
 148 65.0 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 4.794 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00566

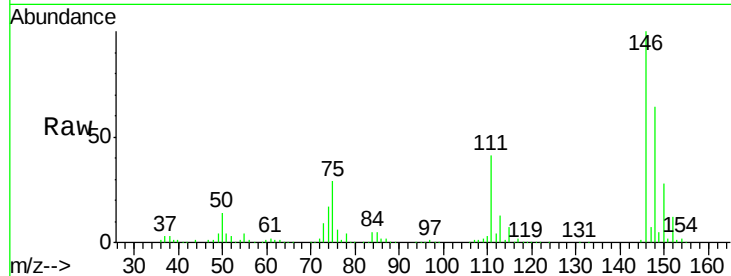
Tgt Ion:146 Resp: 233616

Ion Ratio Lower Upper

146 100

111 40.6 32.0 48.0

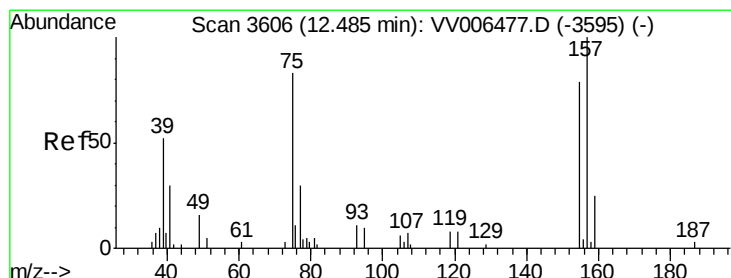
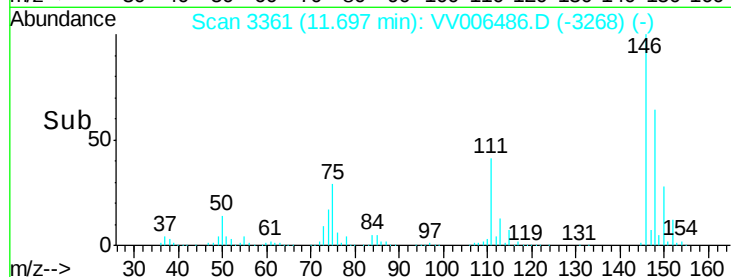
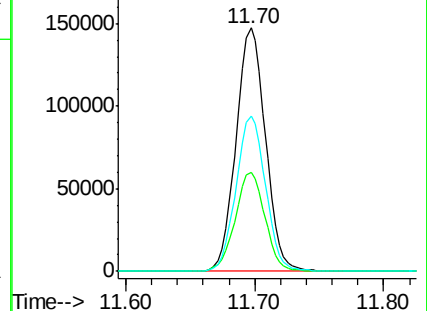
148 63.7 50.8 76.2



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-Dibromo-3-chloropropane

Concen: 4.383 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

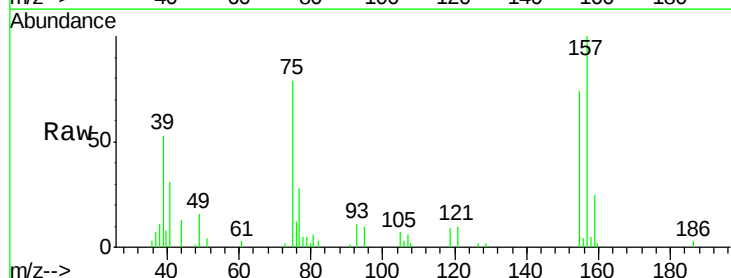
Tgt Ion: 75 Resp: 9078

Ion Ratio Lower Upper

75 100

155 93.9 73.9 110.9

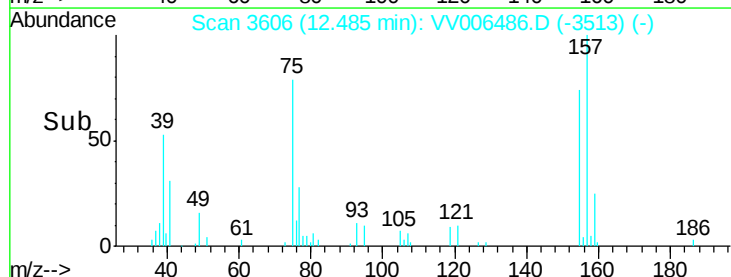
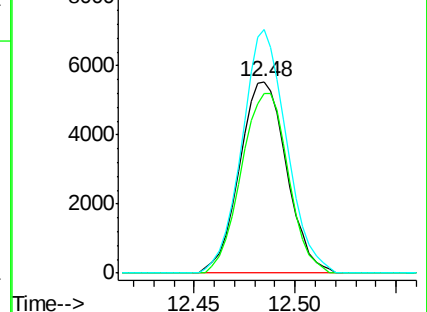
157 127.2 92.9 139.3

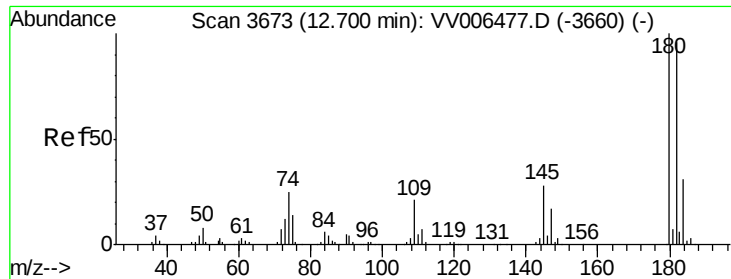


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

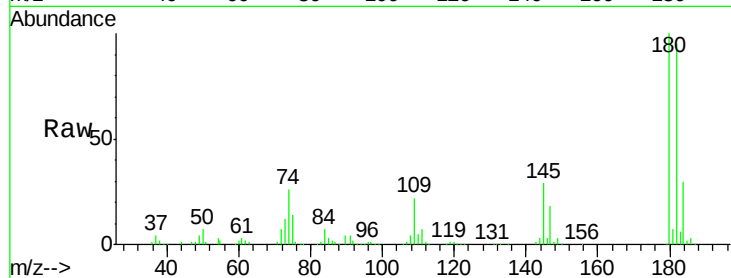




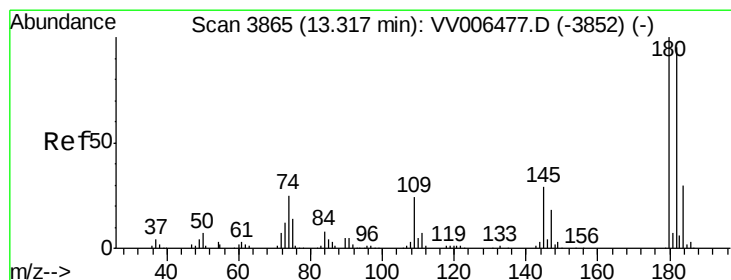
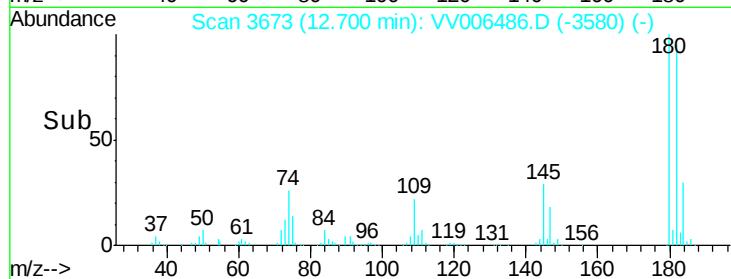
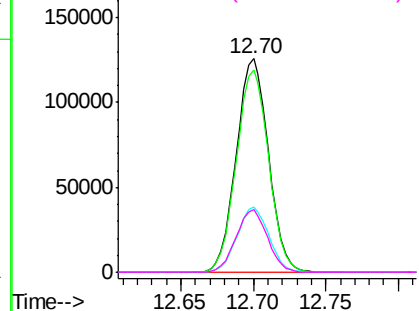
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.889 ug/L  
 RT: 12.70 min Scan# 3673  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00566

Tgt Ion:180 Resp: 193452  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 76.6 115.0  
 184 30.2 24.5 36.7  
 145 28.7 22.6 34.0

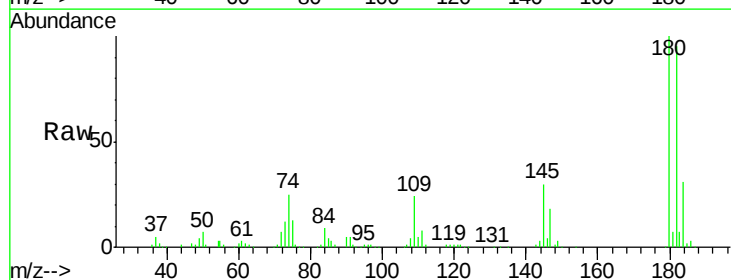


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

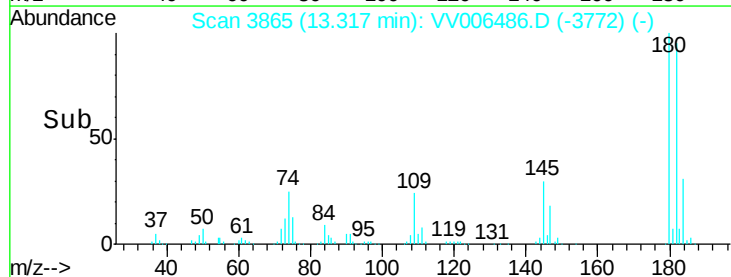
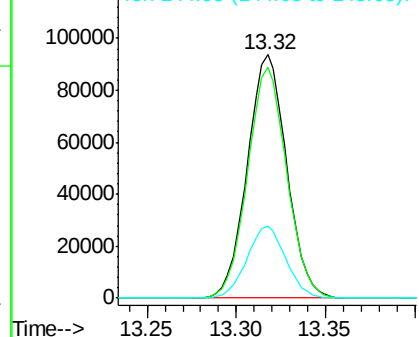


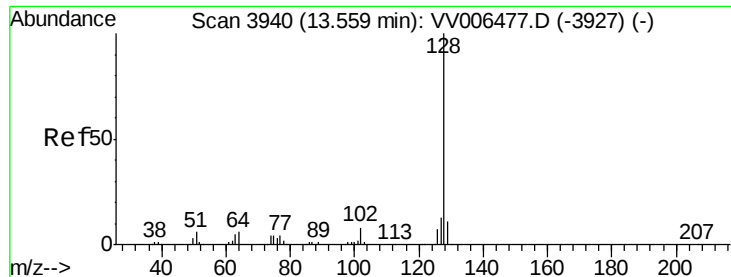
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.989 ug/L  
 RT: 13.32 min Scan# 3865  
 Delta R.T. -0.00 min  
 Lab File: VV006486.D  
 Acq: 28 Jun 2018 10:03

Tgt Ion:180 Resp: 144740  
 Ion Ratio Lower Upper  
 180 100  
 182 94.4 76.7 115.1  
 145 29.3 23.0 34.6



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





#69

Naphthalene

Concen: 4.898 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00566

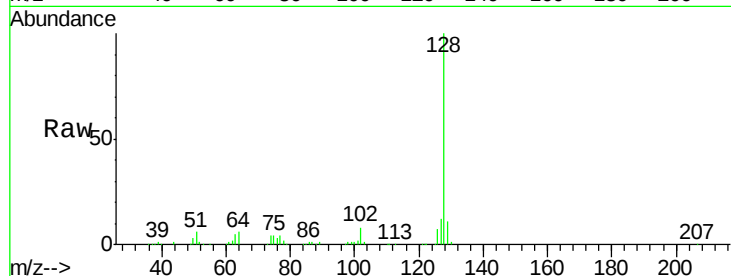
Tgt Ion:128 Resp: 207716

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

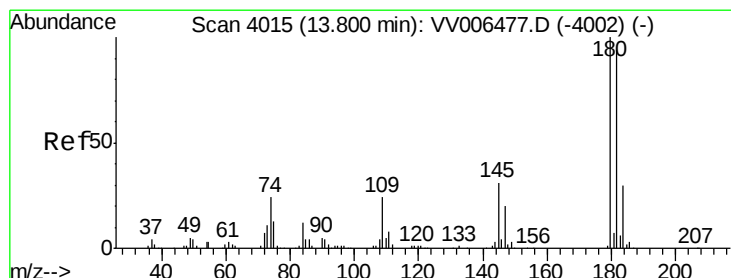
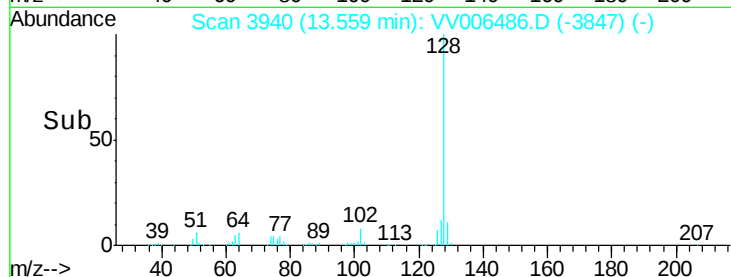
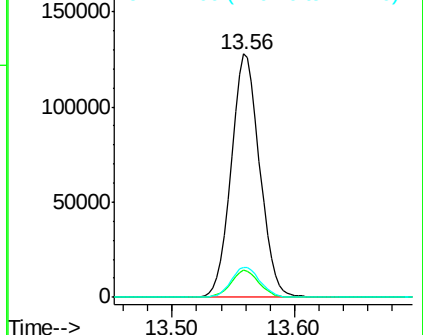
127 12.6 10.2 15.4



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



#70

1,2,3-Trichlorobenzene

Concen: 4.934 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006486.D

Acq: 28 Jun 2018 10:03

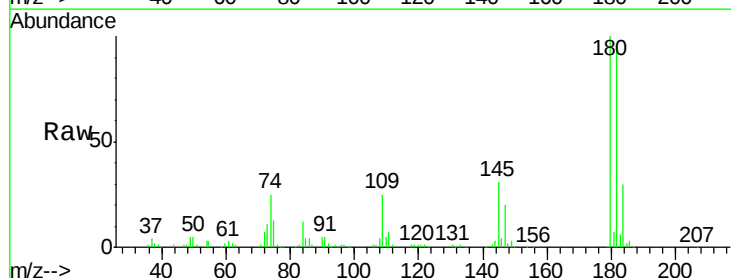
Tgt Ion:180 Resp: 133274

Ion Ratio Lower Upper

180 100

182 96.4 76.0 114.0

145 30.7 24.8 37.2



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

