

Data File : VV012522.D  
Acq On : 02 Sep 2019 12:11  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

Quant Time: Sep 03 05:40:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Sep 03 02:30:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 176538   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 174412   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 86843    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 78602    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 76798    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 196463   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.80%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 146976   | 44.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.98%  |
| 24) Chloroform-d               | 4.40   | 84    | 123099   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 63849    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 229154   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71088    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00%  |
| 41) Toluene-d8                 | 7.36   | 98    | 215995   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 26457    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 105904   | 50.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 50432    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 72795    | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40%  |

#### Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 105043 | 4.646  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 132020 | 4.932  | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 141271 | 4.864  | ug/L 100 |
| 6) Bromomethane                | 1.54 | 94  | 84396  | 4.887  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 92242  | 4.632  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 203139 | 4.562  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 120339 | 4.843  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 112158 | 4.911  | ug/L 97  |
| 13) Acetone                    | 2.23 | 43  | 192854 | 41.597 | ug/L 98  |
| 14) Carbon disulfide           | 2.32 | 76  | 348266 | 4.743  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 61457  | 5.469  | ug/L 92  |
| 16) Methylene chloride         | 2.53 | 84  | 123419 | 4.697  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 197371 | 5.088  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 86886  | 4.759  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 170485 | 4.851  | ug/L 99  |
| 21) 2-Butanone                 | 4.05 | 43  | 211607 | 47.702 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 89078  | 4.721  | ug/L 98  |

Data File : VV012522.D  
Acq On : 02 Sep 2019 12:11  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

Quant Time: Sep 03 05:40:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Sep 03 02:30:09 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 35843    | 4.756  | ug/L  | 98       |
| 25) Chloroform                 | 4.42  | 83   | 168437   | 4.574  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 106626   | 4.972  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 135123   | 4.675  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 146938   | 4.928  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 117384   | 4.671  | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 358630   | 5.008  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 92873    | 4.681  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.17  | 83   | 145874   | 4.837  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 91908    | 4.796  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.55  | 83   | 115800   | 4.779  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 124157   | 4.982  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.28  | 43   | 575533   | 51.695 | ug/L  | 97       |
| 42) Toluene                    | 7.43  | 91   | 390617   | 5.018  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 96662    | 4.895  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 59072    | 4.876  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 66914    | 4.667  | ug/L  | 95       |
| 48) 2-Hexanone                 | 8.19  | 43   | 417082   | 53.456 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 67769    | 4.804  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 54033    | 4.998  | ug/L  | 97       |
| 51) Chlorobenzene              | 8.92  | 112  | 232687   | 4.759  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 425823   | 5.015  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 154343   | 5.012  | ug/L  | 98       |
| 54) o-xylene                   | 9.59  | 106  | 150198   | 5.169  | ug/L  | 95       |
| 55) Styrene                    | 9.60  | 104  | 257370   | 5.206  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 409805   | 5.095  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 65520    | 4.806  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 52505    | 4.916  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 32721    | 4.636  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 181376   | 4.838  | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 180373   | 4.674  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 162798   | 4.738  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 10135    | 4.376  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 131161   | 4.734  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 101122   | 5.066  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 155539   | 5.256  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 94431    | 5.227  | ug/L  | 95       |

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

Data File : VV012522.D

Acq On : 02 Sep 2019 12:11

Operator : SY/MD

Sample : VSTDCCC005

Misc : 25mL/MSV0A\_V/WATER

ALS Vial : 8 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00560

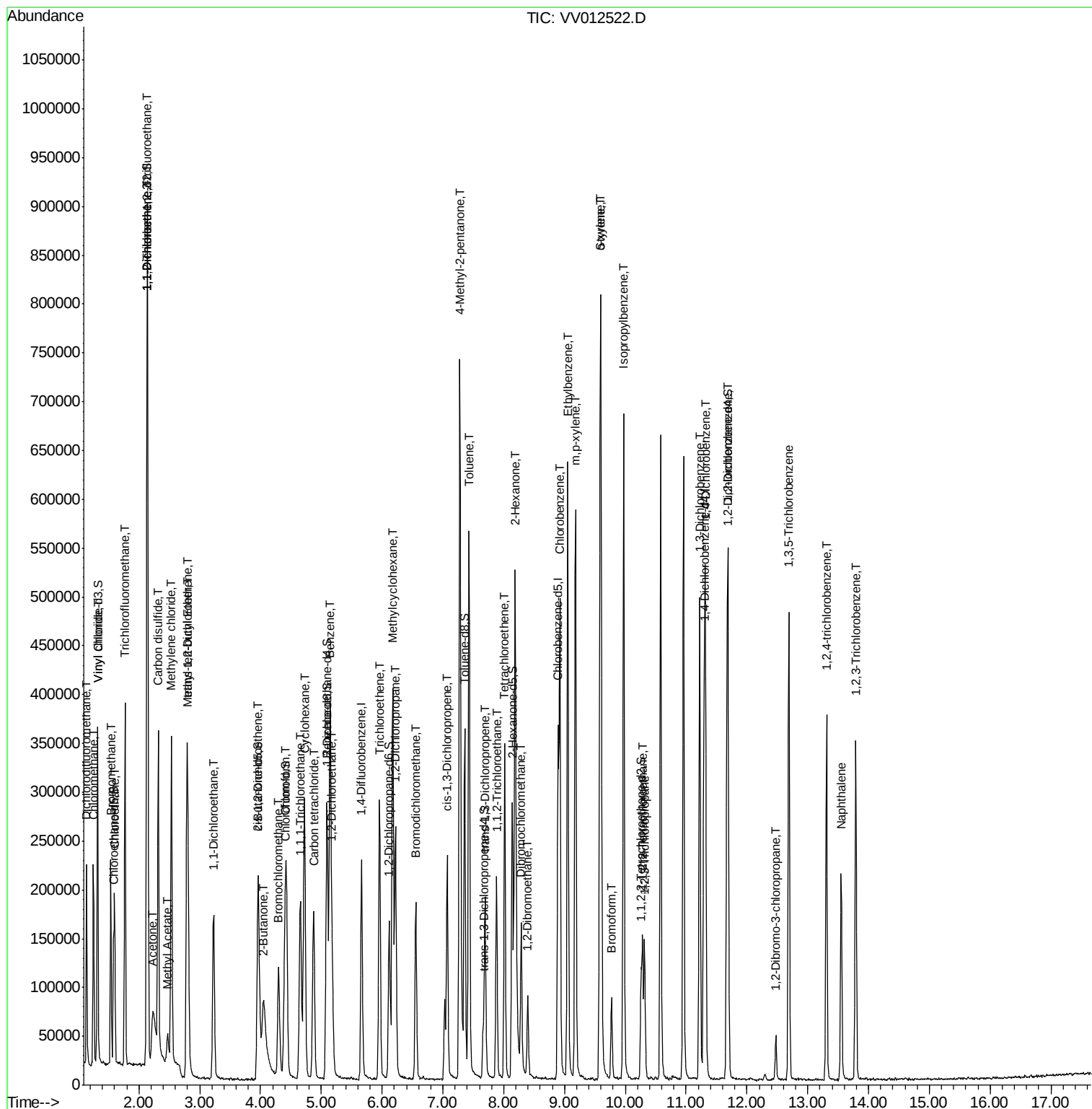
Quant Time: Sep 03 05:40:29 2019

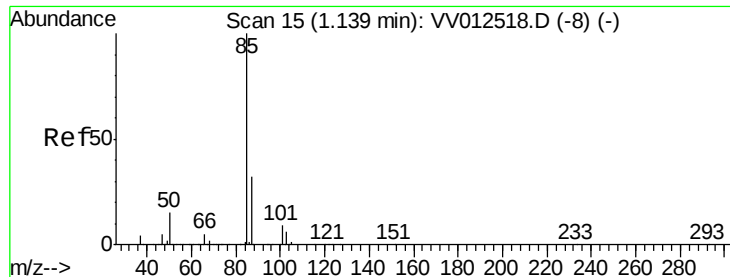
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\S0MVTR090219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Tue Sep 03 02:30:09 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.646 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

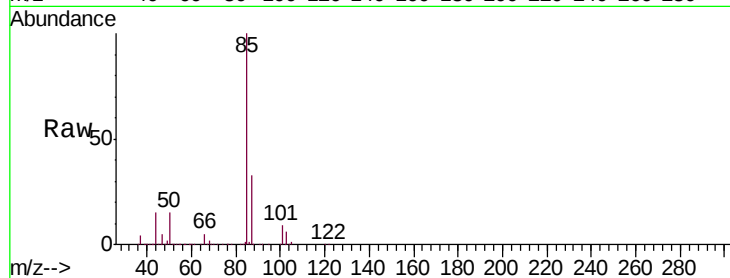
VSTD00560

Tgt Ion: 85 Resp: 105043

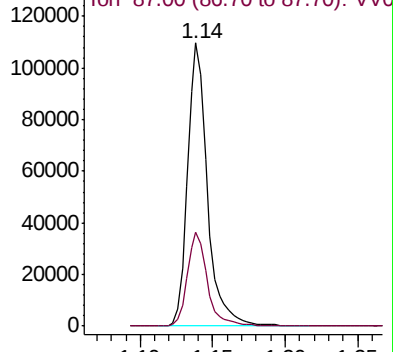
Ion Ratio Lower Upper

85 100

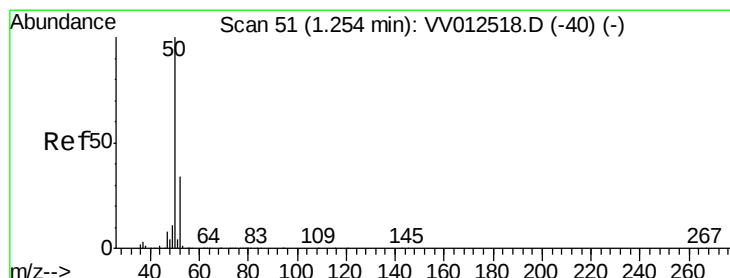
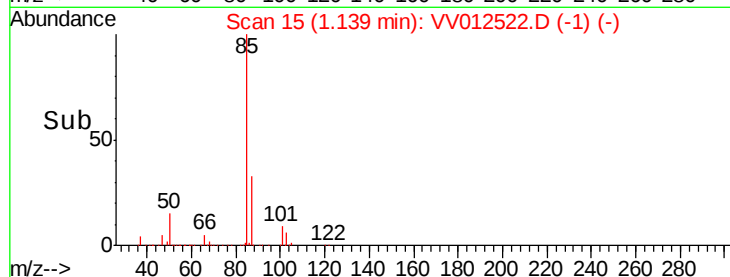
87 33.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VV012518.D (-8) (-)



Time-->



#3

Chloromethane

Concen: 4.932 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012522.D

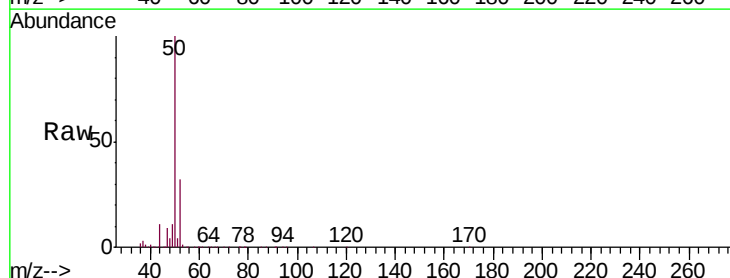
Acq: 02 Sep 2019 12:11

Tgt Ion: 50 Resp: 132020

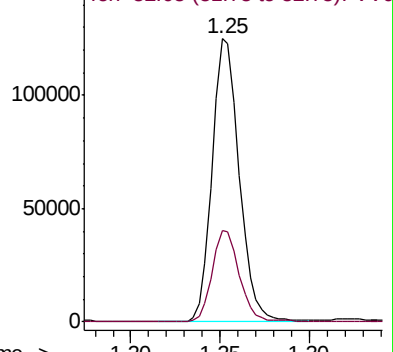
Ion Ratio Lower Upper

50 100

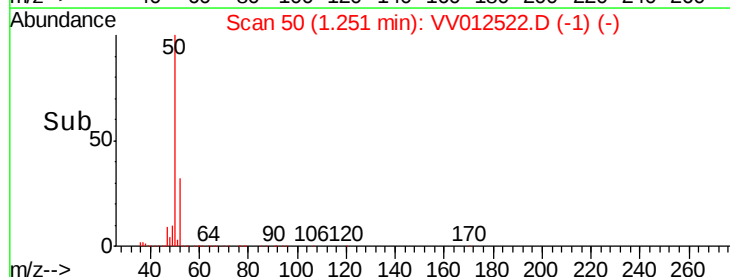
52 32.3 23.5 43.7

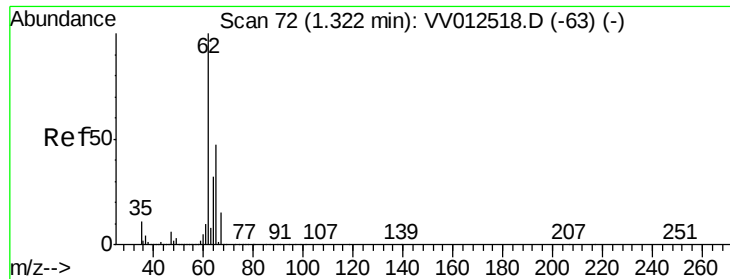


Abundance Ion 50.05 (49.75 to 50.75): VV012518.D (-40) (-)



Time-->





#5

Vinyl chloride

Concen: 4.864 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

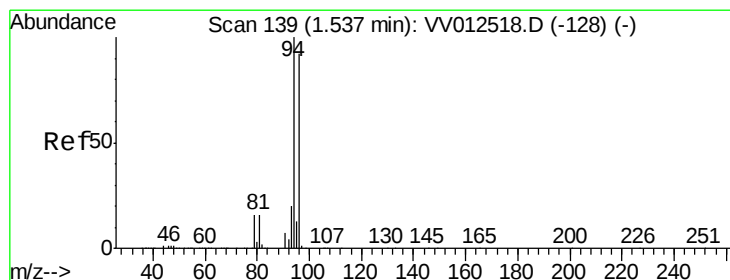
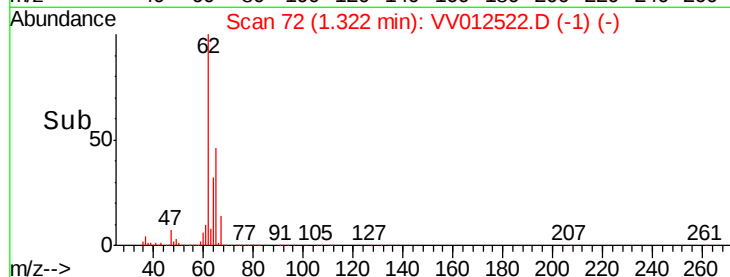
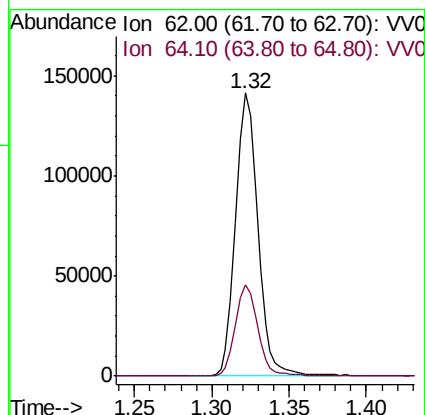
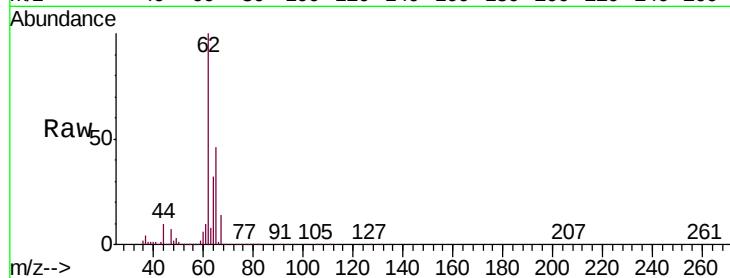
VSTD00560

Tgt Ion: 62 Resp: 141271

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



#6

Bromomethane

Concen: 4.887 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012522.D

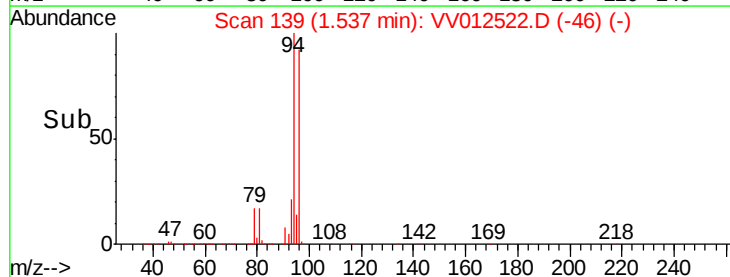
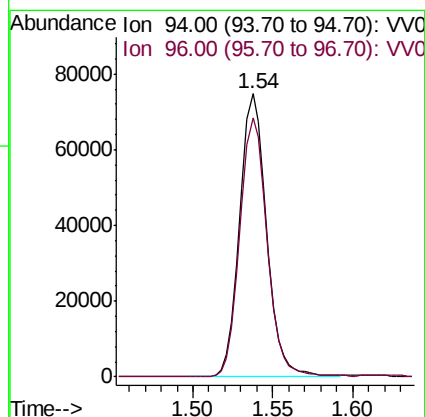
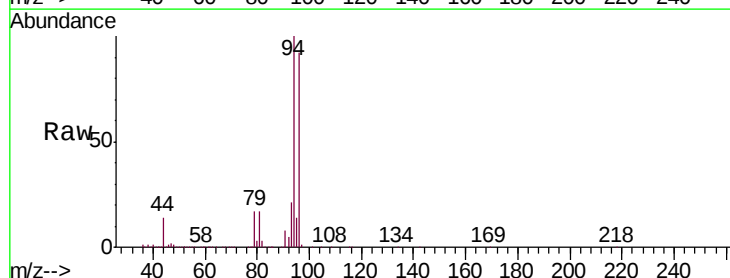
Acq: 02 Sep 2019 12:11

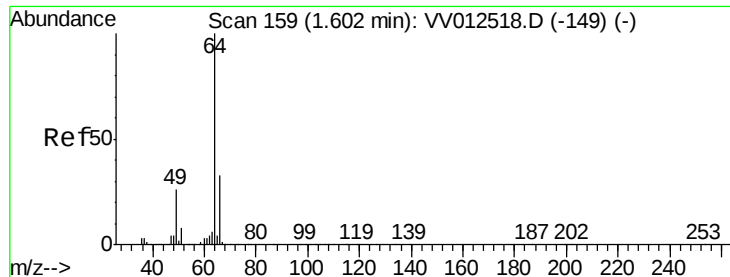
Tgt Ion: 94 Resp: 84396

Ion Ratio Lower Upper

94 100

96 91.6 64.3 119.3

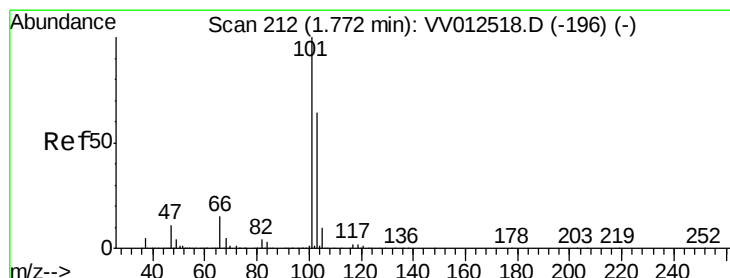
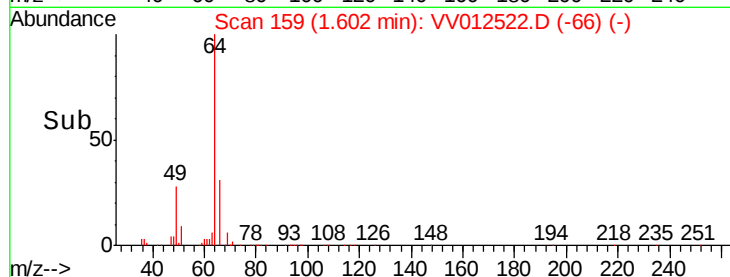
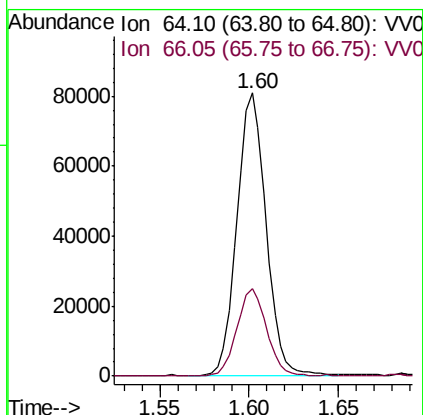
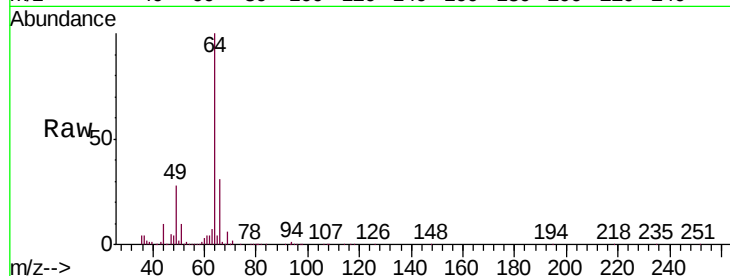




#8  
Chloroethane  
Concen: 4.632 ug/L  
RT: 1.60 min Scan# 159  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

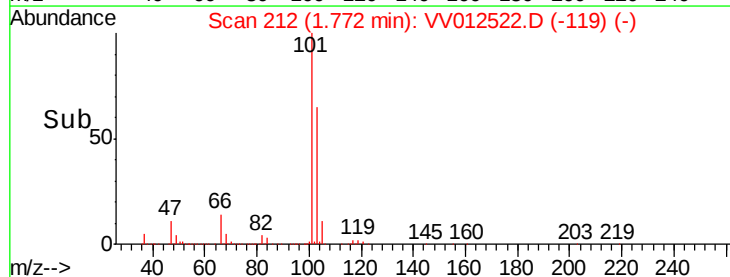
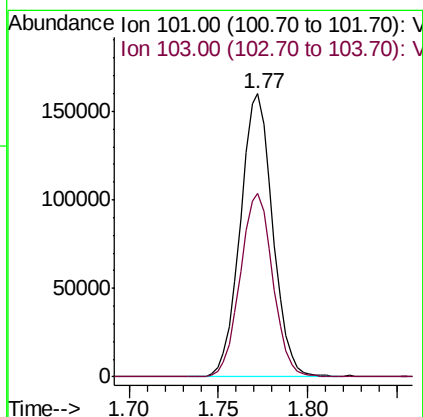
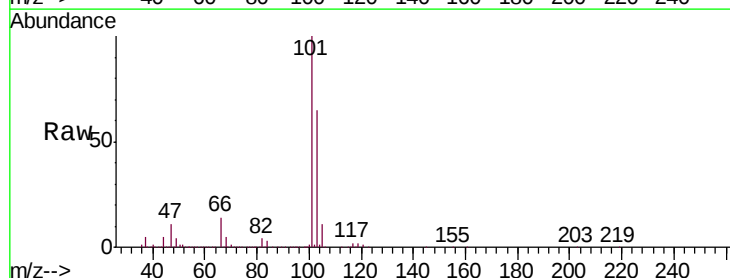
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

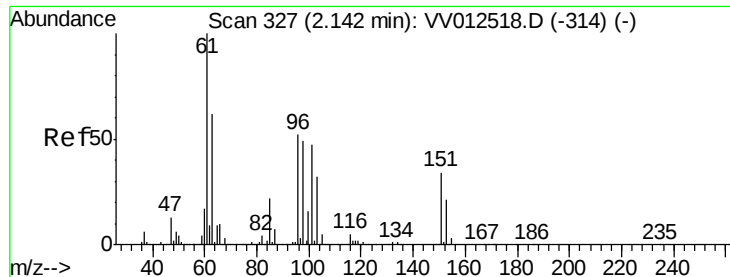
Tgt Ion: 64 Resp: 92242  
Ion Ratio Lower Upper  
64 100  
66 30.9 23.1 42.9



#9  
Trichlorofluoromethane  
Concen: 4.562 ug/L  
RT: 1.77 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Tgt Ion: 101 Resp: 203139  
Ion Ratio Lower Upper  
101 100  
103 65.1 51.2 76.8





#10

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

Concen: 4.843 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

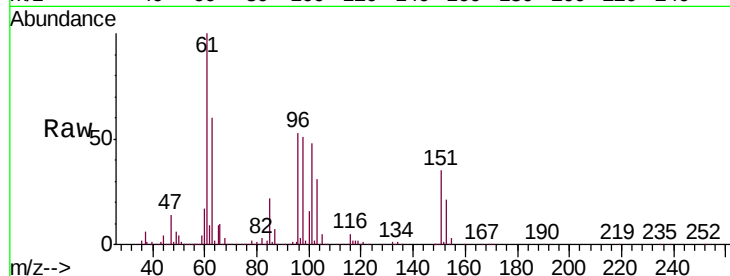
Tgt Ion: 101 Resp: 120339

Ion Ratio Lower Upper

101 100

85 45.2 37.4 56.0

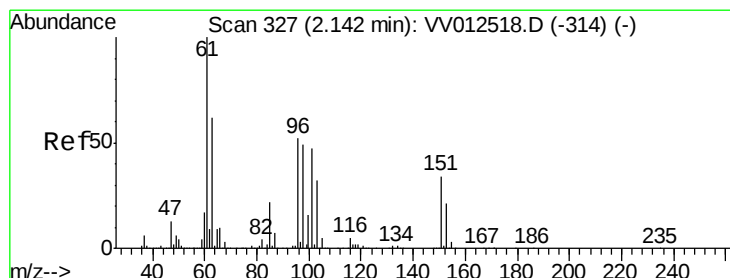
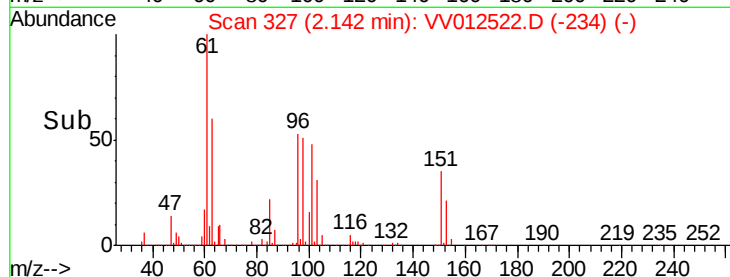
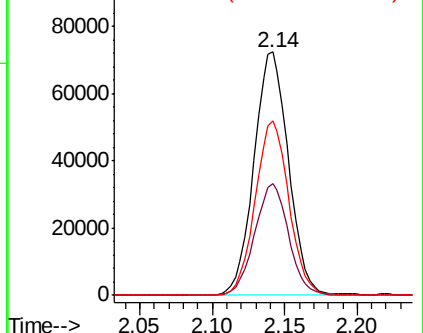
151 70.1 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): VV012518.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV012522.D (-234) (-)

Ion 151.00 (150.70 to 151.70): VV012522.D (-234) (-)



#12

1,1-Dichloroethene

Concen: 4.911 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

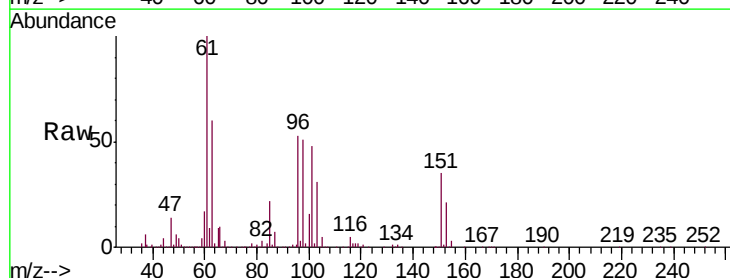
Tgt Ion: 96 Resp: 112158

Ion Ratio Lower Upper

96 100

61 188.1 133.7 248.3

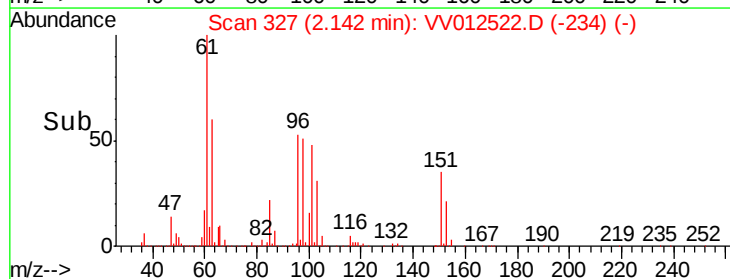
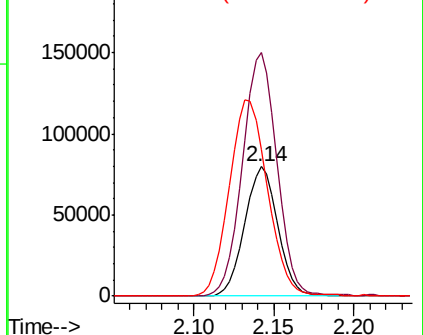
63 112.8 83.2 154.6

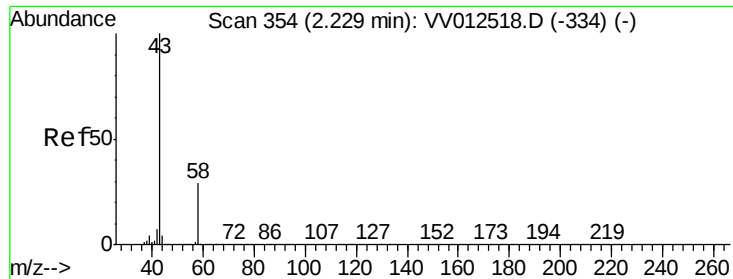


Abundance Ion 96.00 (95.70 to 96.70): VV012518.D (-314) (-)

Ion 61.05 (60.75 to 61.75): VV012522.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV012522.D (-234) (-)





#13

Acetone

Concen: 41.597 ug/L

RT: 2.23 min Scan# 355

Delta R.T. 0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

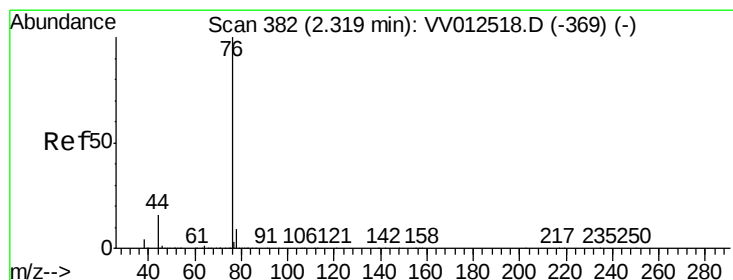
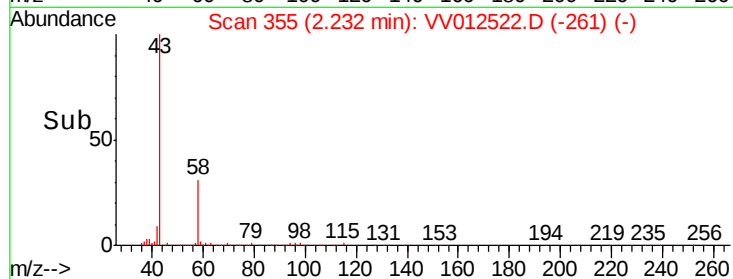
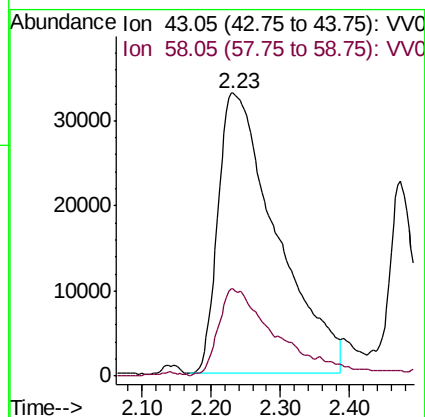
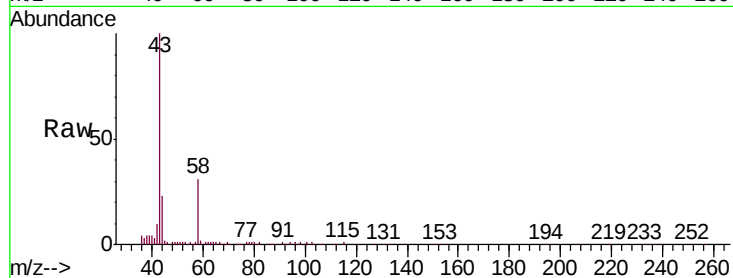
VSTD00560

Tgt Ion: 43 Resp: 192854

Ion Ratio Lower Upper

43 100

58 27.9 0.0 58.2



#14

Carbon disulfide

Concen: 4.743 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012522.D

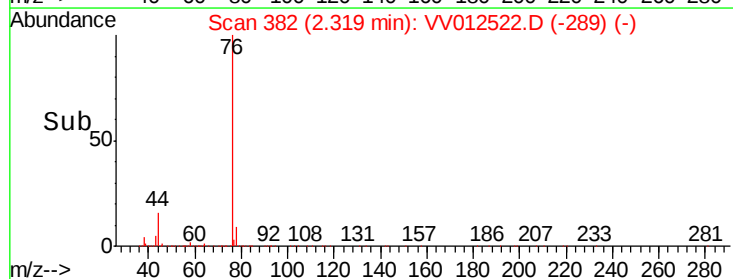
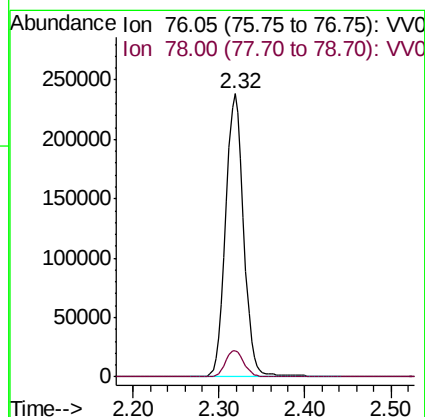
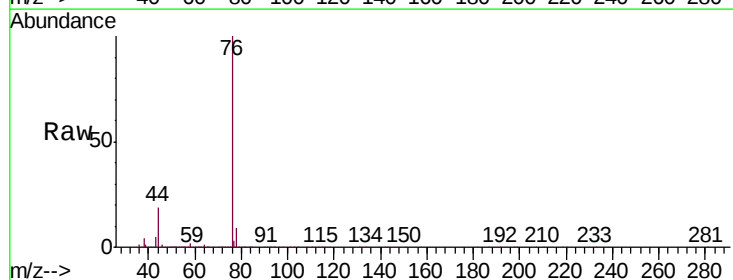
Acq: 02 Sep 2019 12:11

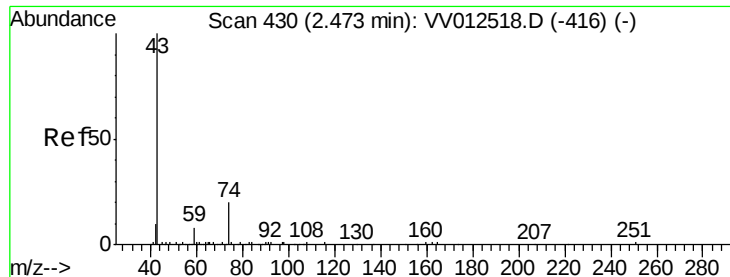
Tgt Ion: 76 Resp: 348266

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0





#15

Methyl Acetate

Concen: 5.469 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

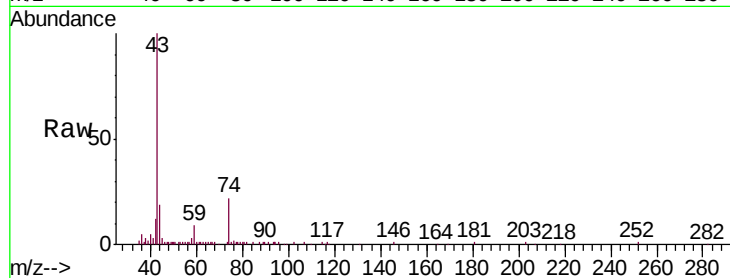
VSTD00560

Tgt Ion: 43 Resp: 61457

Ion Ratio Lower Upper

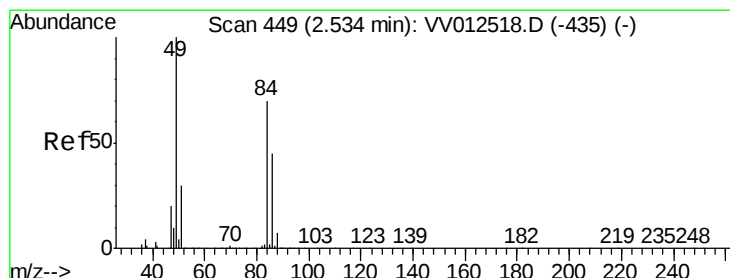
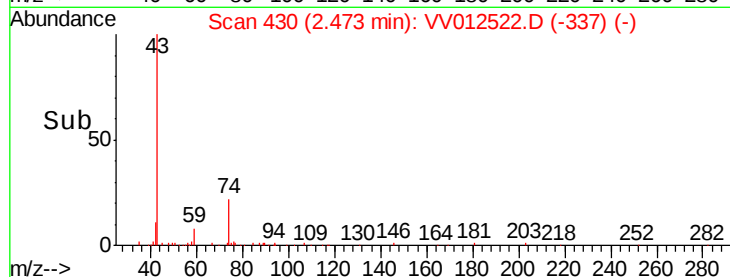
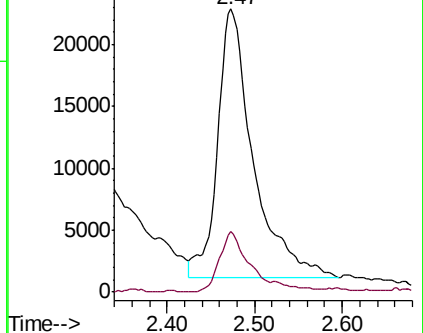
43 100

74 17.9 17.3 25.9



Abundance Ion 43.05 (42.75 to 43.75): VV012518.D (-416) (-)

Ion 74.05 (73.75 to 74.75): VV012518.D (-416) (-)



#16

Methylene chloride

Concen: 4.697 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

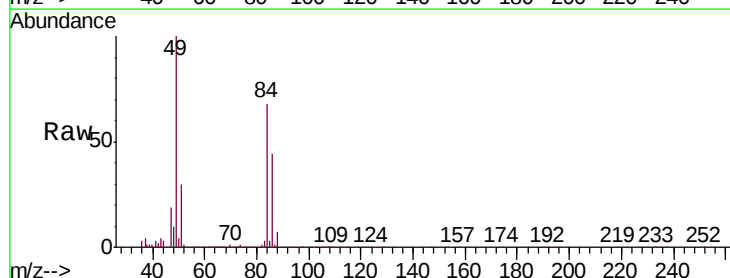
Tgt Ion: 84 Resp: 123419

Ion Ratio Lower Upper

84 100

86 64.5 45.2 84.0

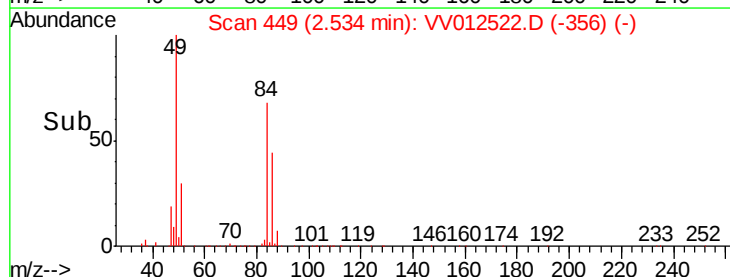
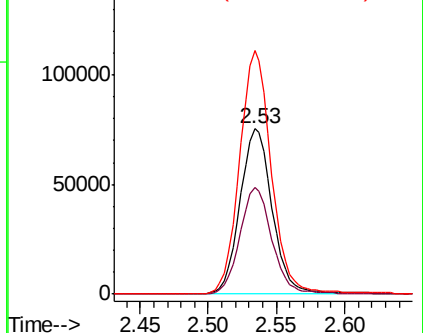
49 147.4 100.4 186.4

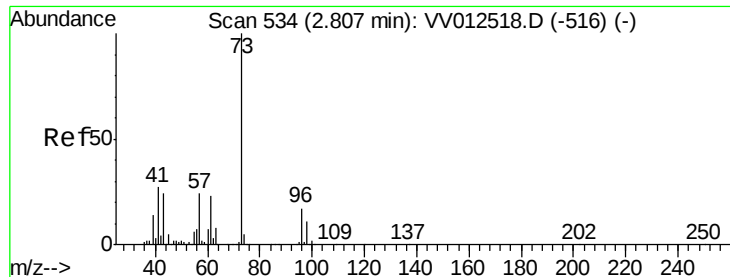


Abundance Ion 84.05 (83.75 to 84.75): VV012518.D (-435) (-)

Ion 86.00 (85.70 to 86.70): VV012518.D (-435) (-)

Ion 49.10 (48.80 to 49.80): VV012518.D (-435) (-)



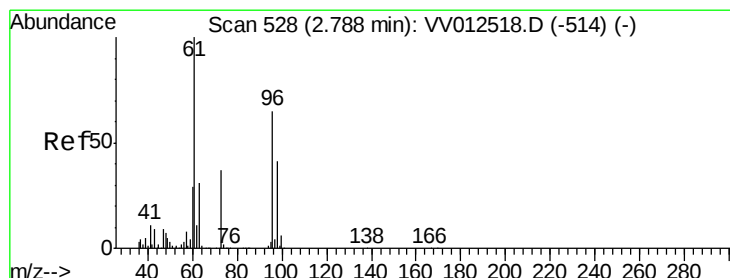
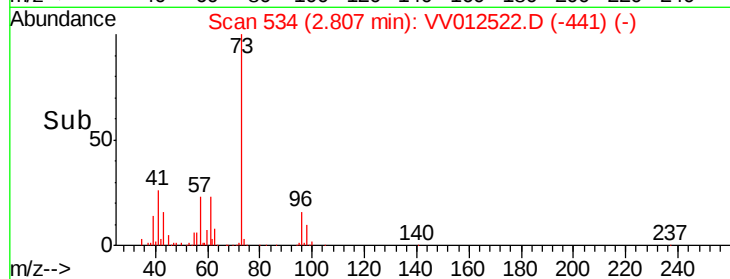
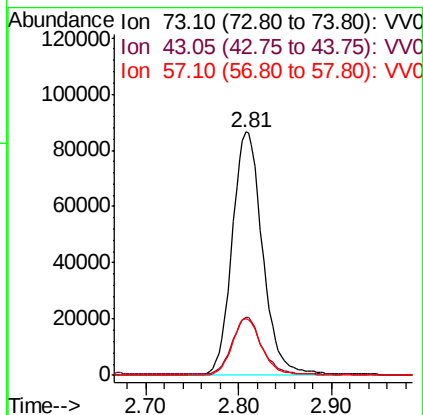
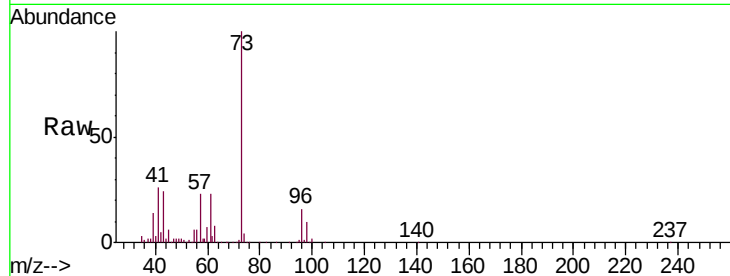


#17

Methyl tert-butyl Ether  
 Concen: 5.088 ug/L  
 RT: 2.81 min Scan# 534  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

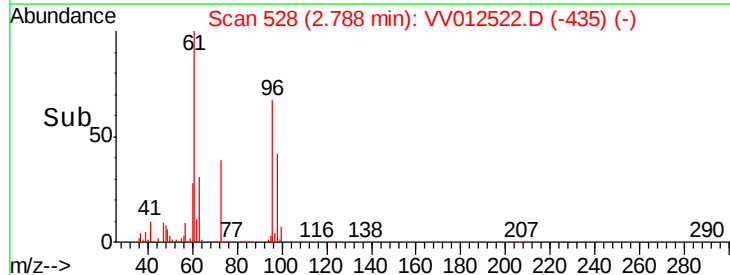
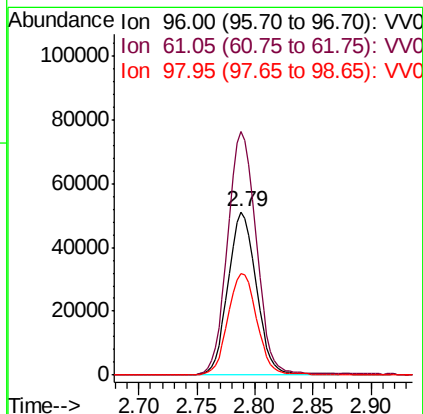
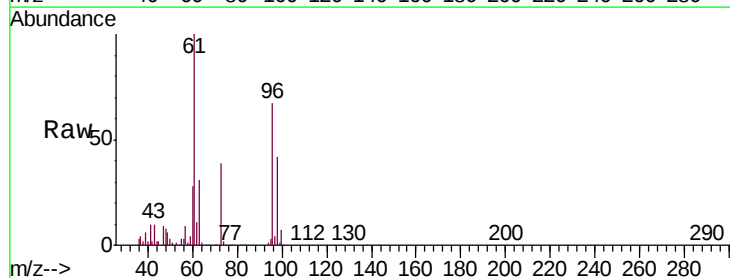
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 197371 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 43       | 22.6  | 18.9  | 28.3   |
| 57       | 22.5  | 18.3  | 27.5   |

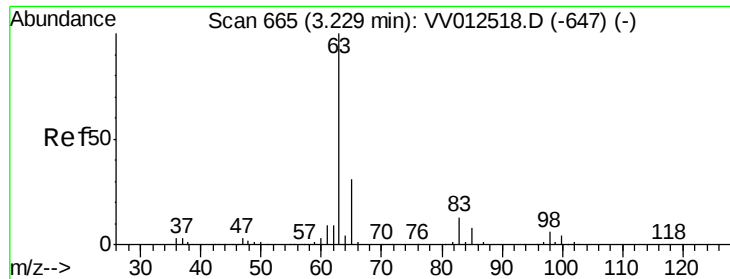


#18

trans-1,2-Dichloroethene  
 Concen: 4.759 ug/L  
 RT: 2.79 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 86886 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 149.3 | 107.6 | 199.8 |
| 98       | 62.5  | 44.4  | 82.4  |

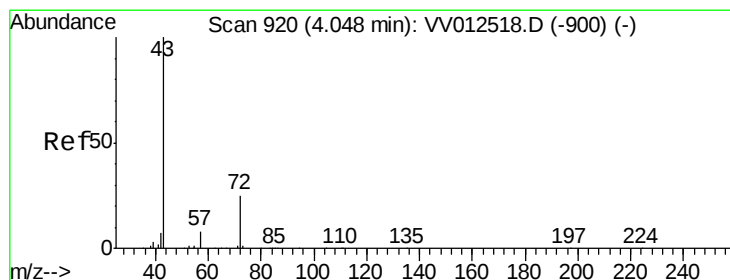
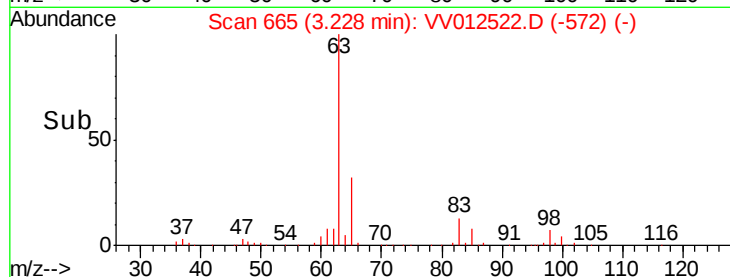
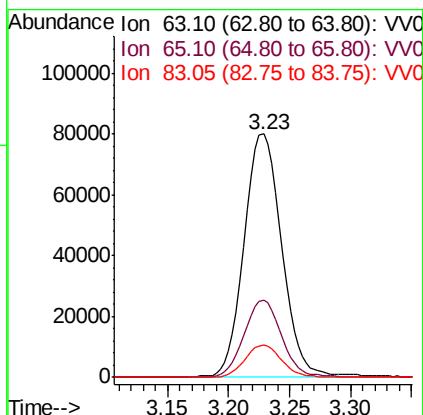
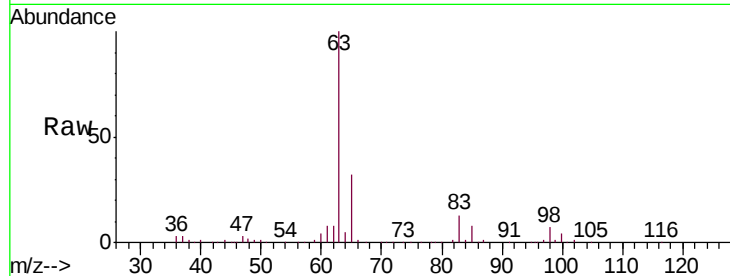




#19  
 1,1-Dichloroethane  
 Concen: 4.851 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

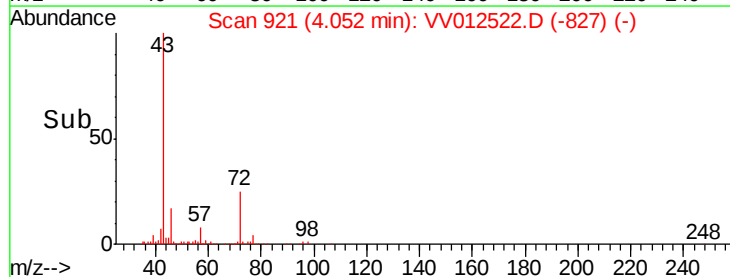
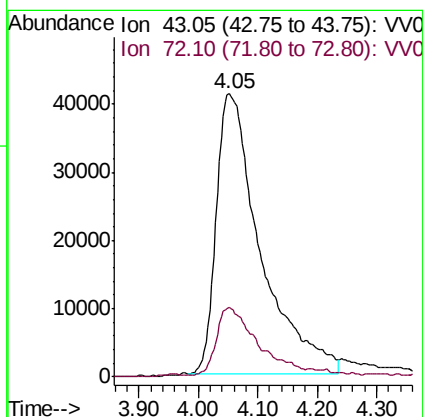
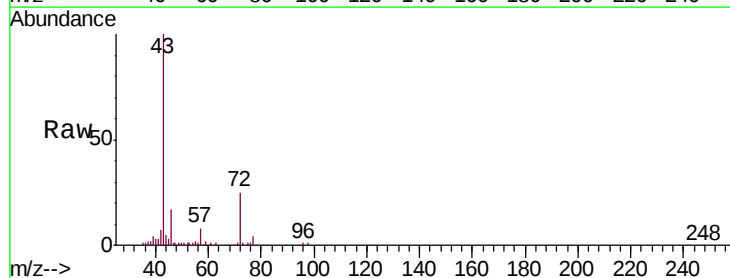
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD00560

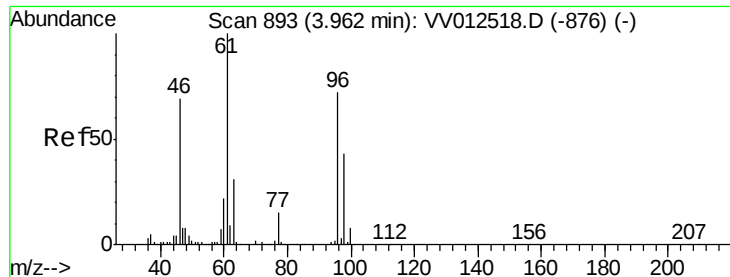
Tgt Ion: 63 Resp: 170485  
 Ion Ratio Lower Upper  
 63 100  
 65 31.7 21.5 39.9  
 83 13.1 9.1 16.9



#21  
 2-Butanone  
 Concen: 47.702 ug/L  
 RT: 4.05 min Scan# 921  
 Delta R.T. 0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Tgt Ion: 43 Resp: 211607  
 Ion Ratio Lower Upper  
 43 100  
 72 20.5 11.4 34.1





#22

cis-1,2-Dichloroethene

Concen: 4.721 ug/L

RT: 3.96 min Scan# 893

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

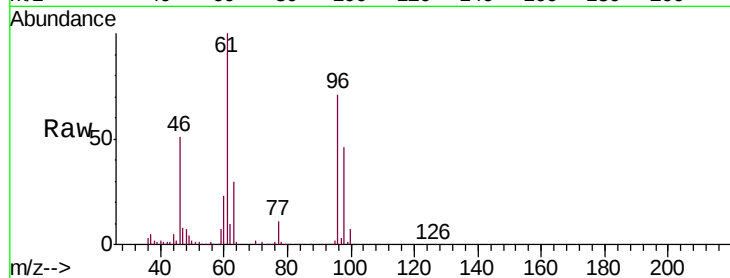
Tgt Ion: 96 Resp: 89078

Ion Ratio Lower Upper

96 100

61 141.8 97.5 181.1

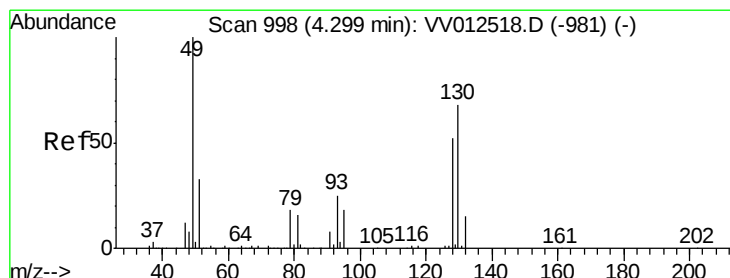
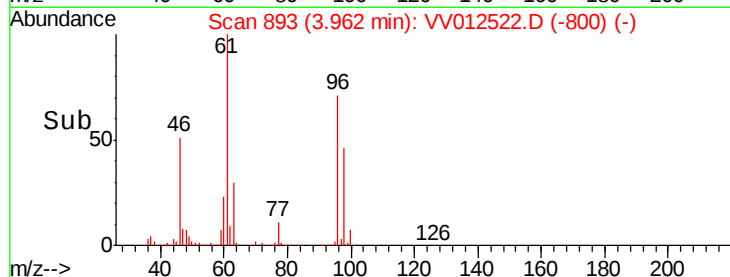
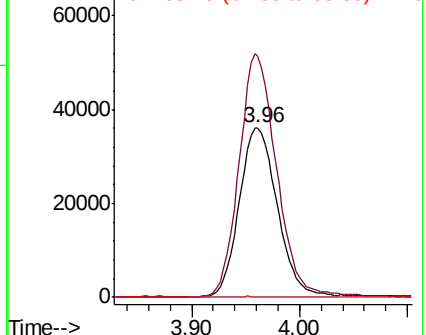
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV012518.D (-876) (-)

Ion 61.05 (60.75 to 61.75): VV012518.D (-876) (-)

Ion 68.15 (67.85 to 68.85): VV012518.D (-876) (-)



#23

Bromochloromethane

Concen: 4.756 ug/L

RT: 4.30 min Scan# 998

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Tgt Ion: 128 Resp: 35843

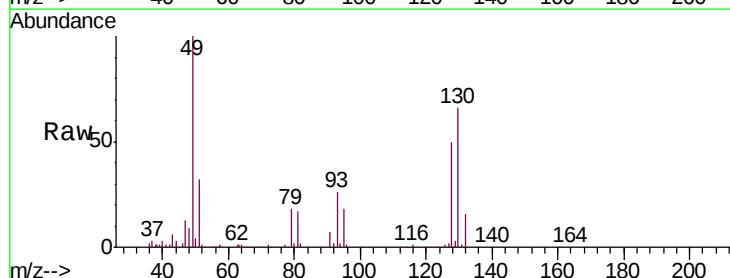
Ion Ratio Lower Upper

128 100

49 199.1 136.5 253.5

130 130.5 92.1 171.1

51 64.1 52.5 78.7

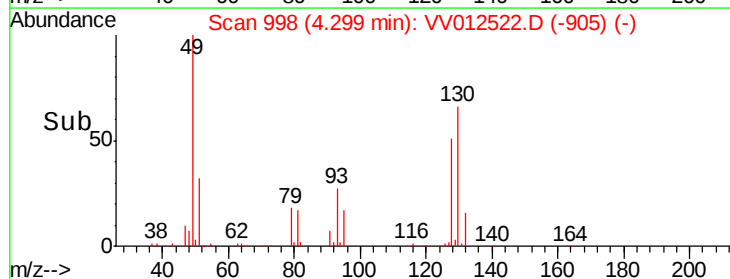
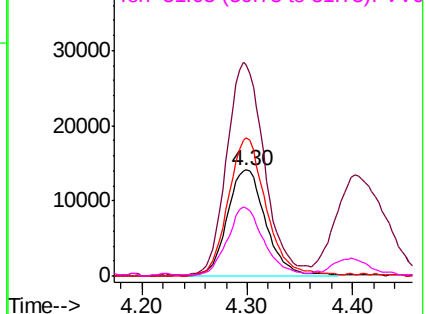


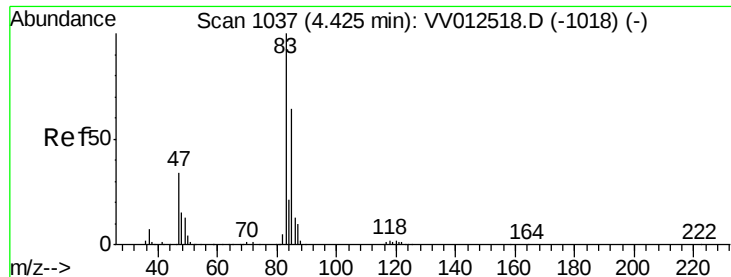
Abundance Ion 127.90 (127.60 to 128.60): VV012518.D (-981) (-)

Ion 49.10 (48.80 to 49.80): VV012518.D (-981) (-)

Ion 129.95 (129.65 to 130.65): VV012518.D (-981) (-)

Ion 51.05 (50.75 to 51.75): VV012518.D (-981) (-)

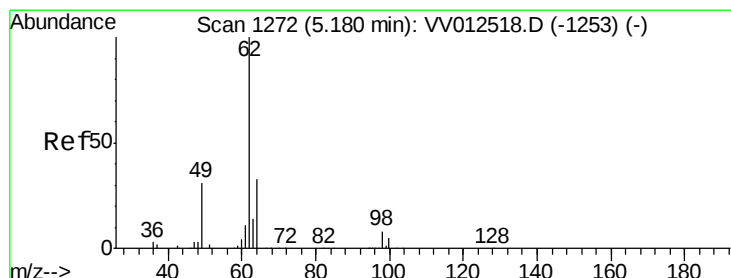
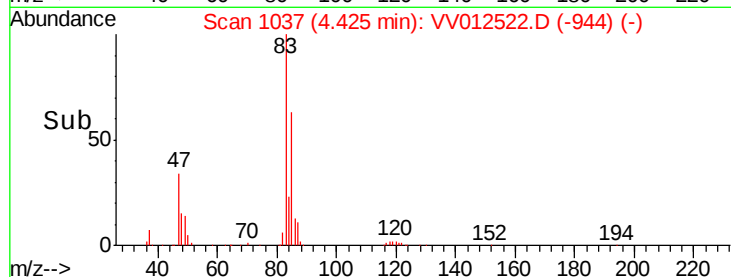
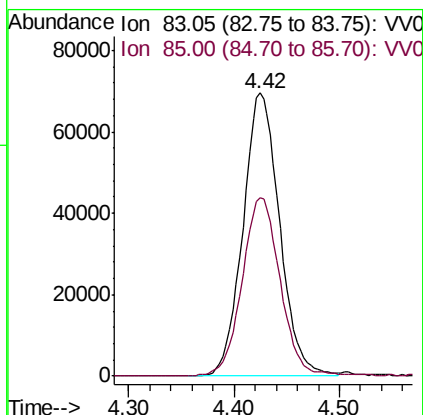
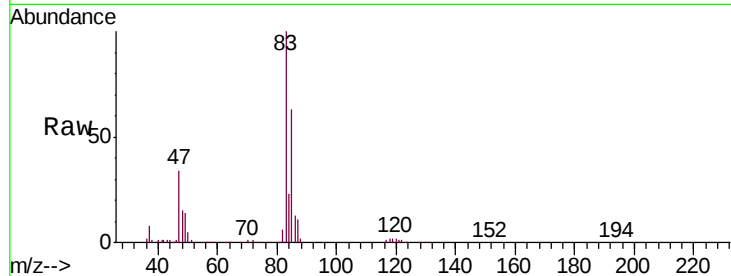




#25  
Chloroform  
Concen: 4.574 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

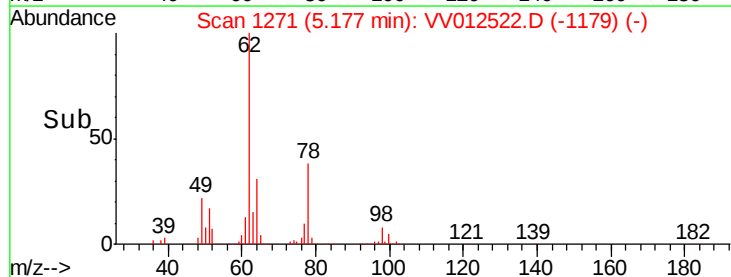
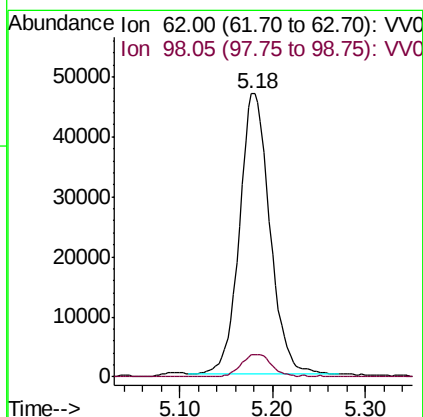
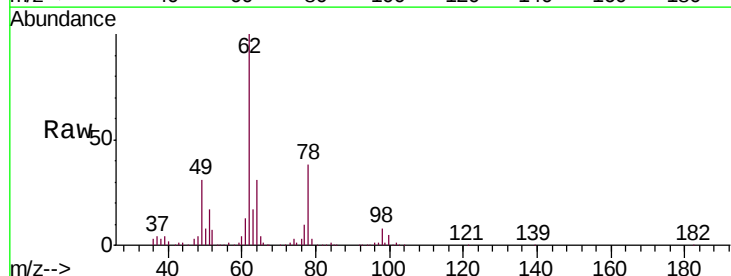
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

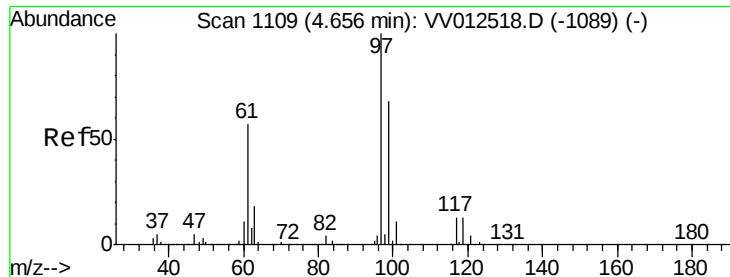
Tgt Ion: 83 Resp: 168437  
Ion Ratio Lower Upper  
83 100  
85 63.2 45.1 83.9



#27  
1,2-Dichloroethane  
Concen: 4.972 ug/L  
RT: 5.18 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Tgt Ion: 62 Resp: 106626  
Ion Ratio Lower Upper  
62 100  
98 7.7 6.7 10.1

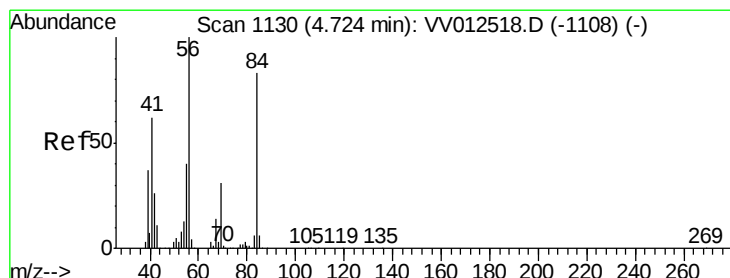
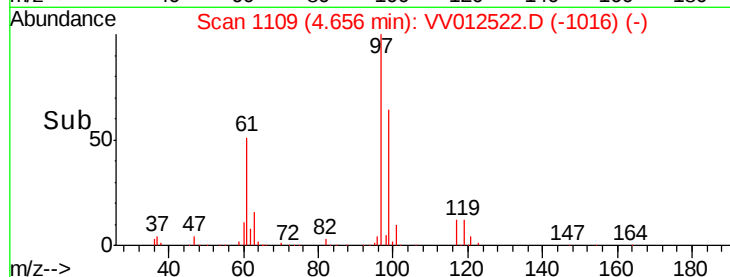
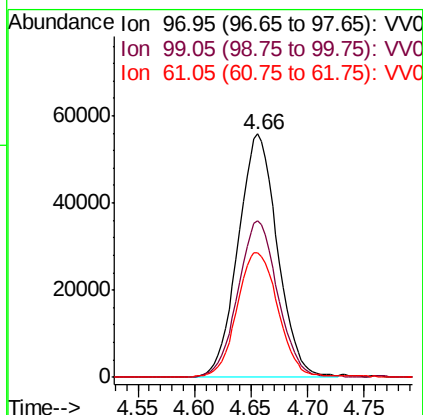
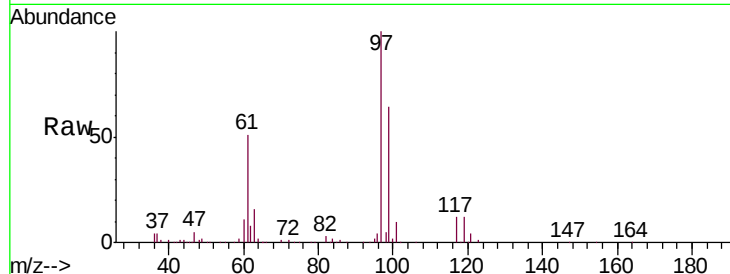




#29  
 1,1,1-Trichloroethane  
 Concen: 4.675 ug/L  
 RT: 4.66 min Scan# 1109  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

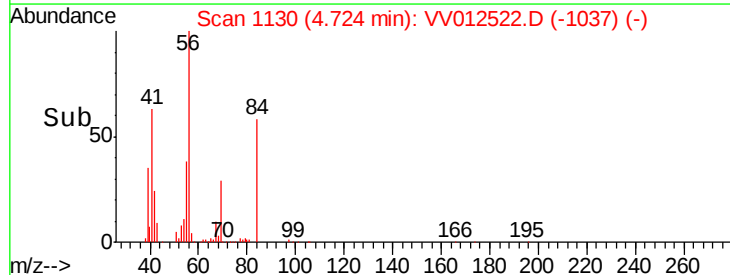
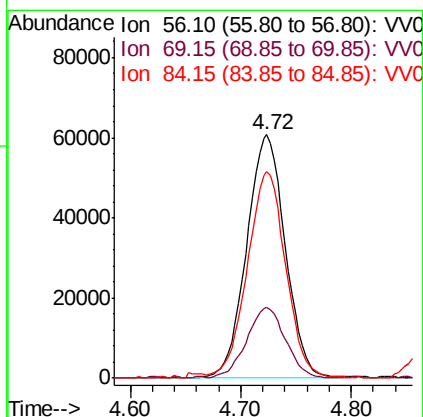
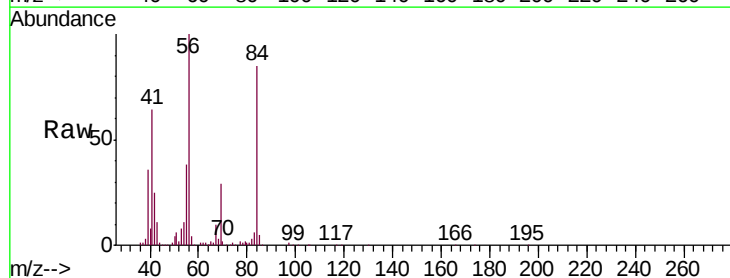
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

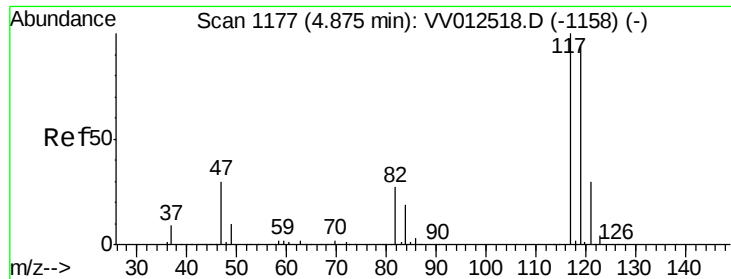
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.3  | 52.6  | 79.0  |
| 61      | 52.9  | 43.4  | 65.2  |



#30  
 Cyclohexane  
 Concen: 4.928 ug/L  
 RT: 4.72 min Scan# 1130  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.6  | 23.5  | 35.3  |
| 84      | 82.8  | 67.1  | 100.7 |





#31

Carbon tetrachloride

Concen: 4.671 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampled :

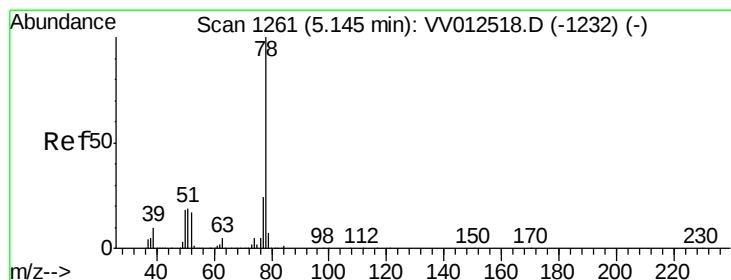
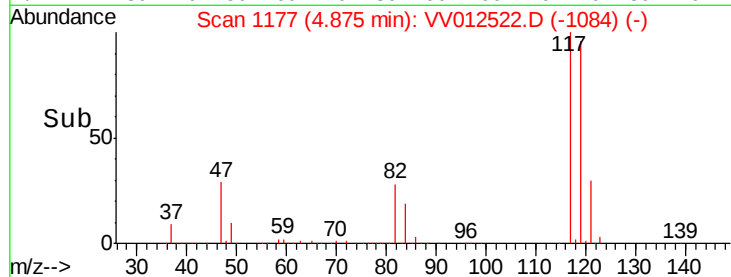
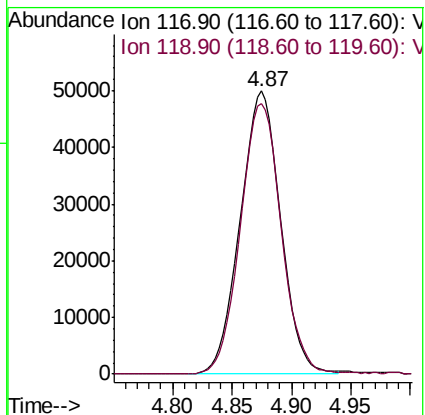
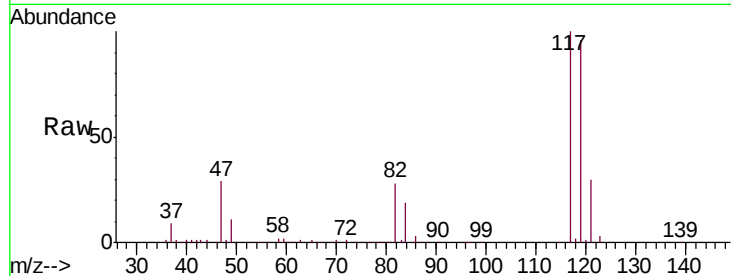
VSTD00560

Tgt Ion:117 Resp: 117384

Ion Ratio Lower Upper

117 100

119 96.9 76.5 114.7



#33

Benzene

Concen: 5.008 ug/L

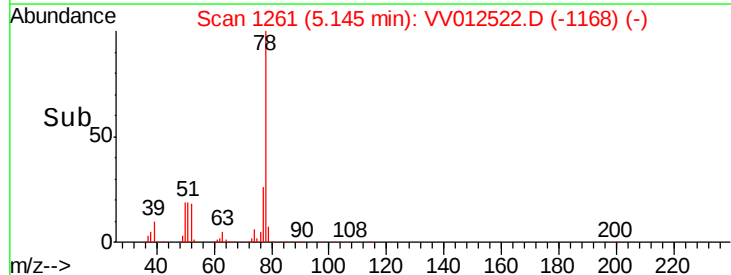
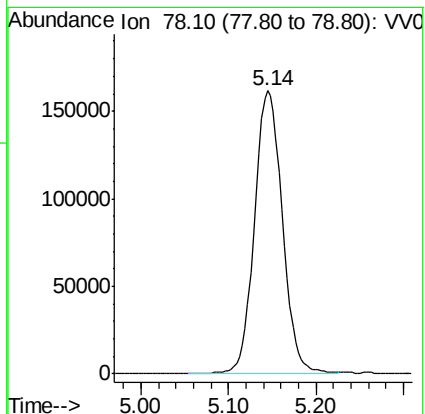
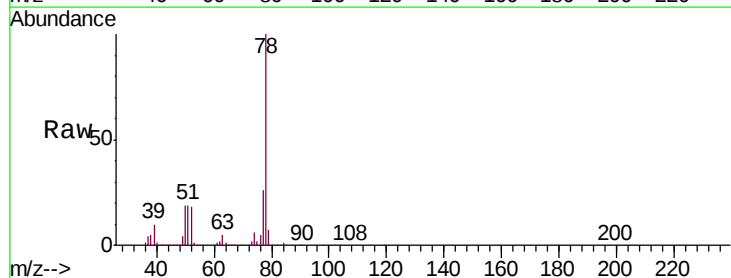
RT: 5.14 min Scan# 1261

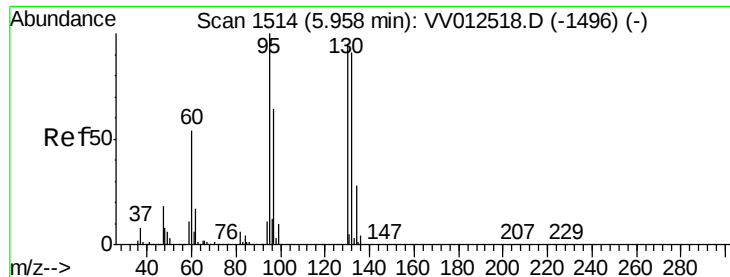
Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Tgt Ion: 78 Resp: 358630

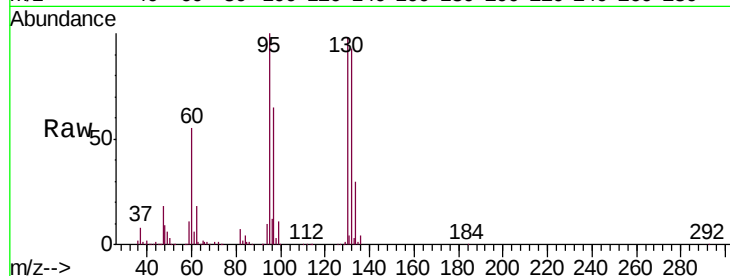




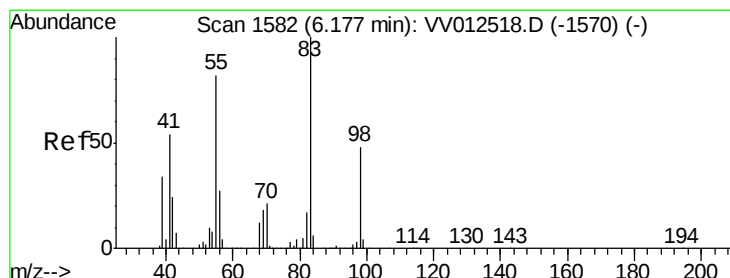
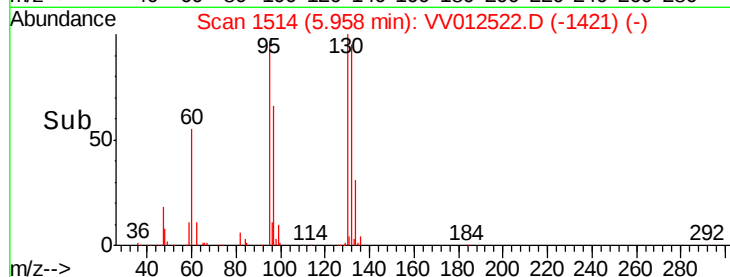
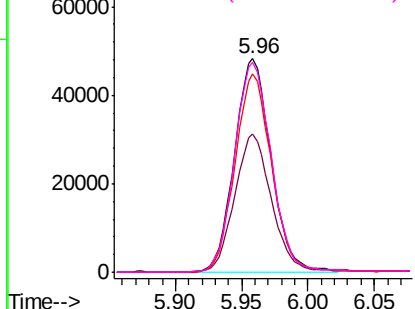
#34  
 Trichloroethene  
 Concen: 4.681 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Tgt Ion: 95 Resp: 92873  
 Ion Ratio Lower Upper  
 95 100  
 97 64.8 44.7 83.1  
 132 92.9 63.8 118.4  
 130 98.2 66.6 123.6

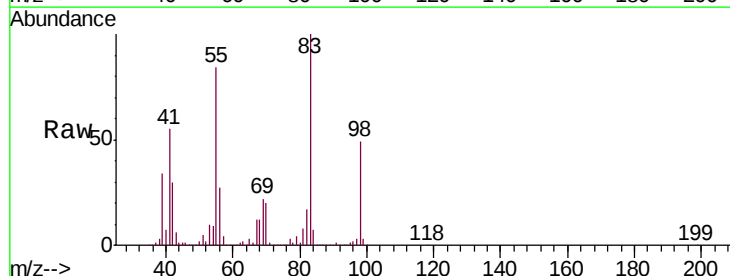


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

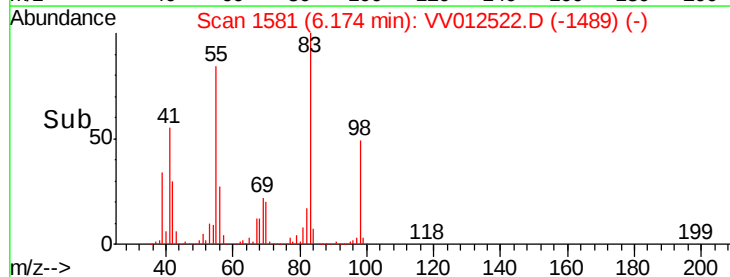
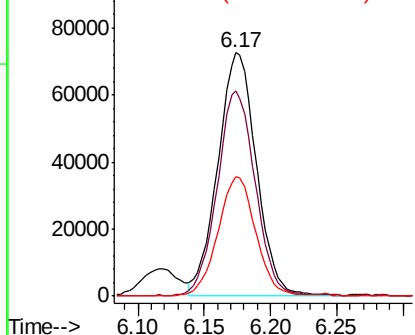


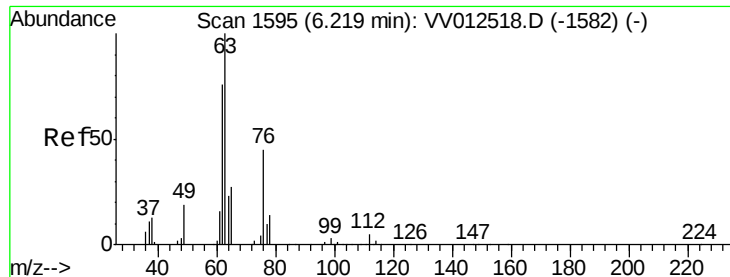
#35  
 Methylcyclohexane  
 Concen: 4.837 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Tgt Ion: 83 Resp: 145874  
 Ion Ratio Lower Upper  
 83 100  
 55 82.7 67.3 100.9  
 98 48.5 37.4 56.2



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: 4.796 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

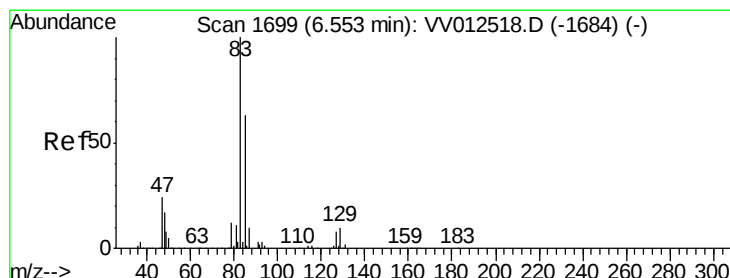
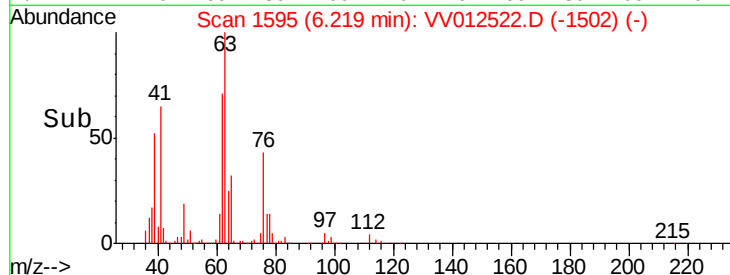
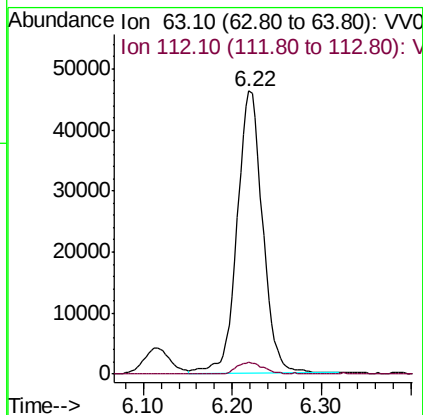
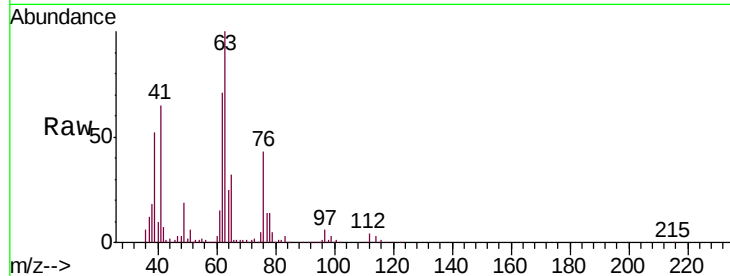
VSTD00560

Tgt Ion: 63 Resp: 91908

Ion Ratio Lower Upper

63 100

112 4.5 3.5 5.3



#38

Bromodichloromethane

Concen: 4.779 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

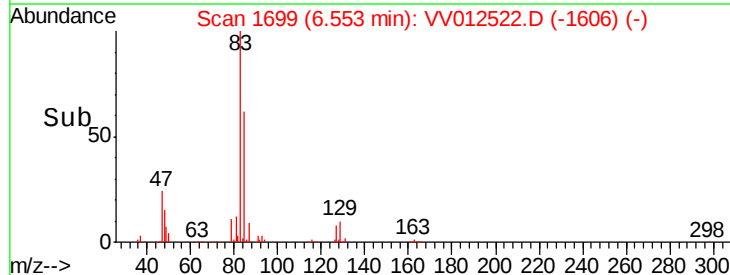
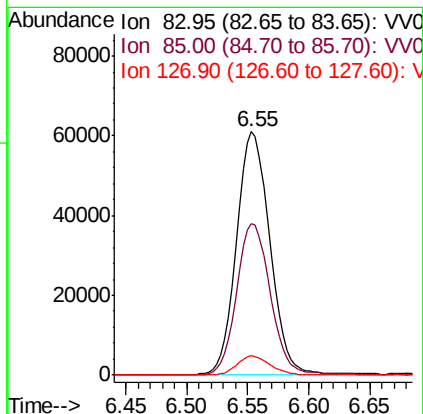
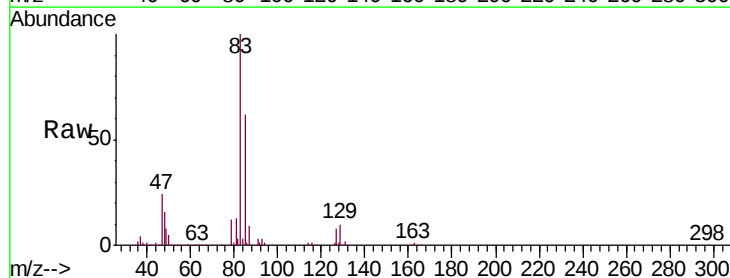
Tgt Ion: 83 Resp: 115800

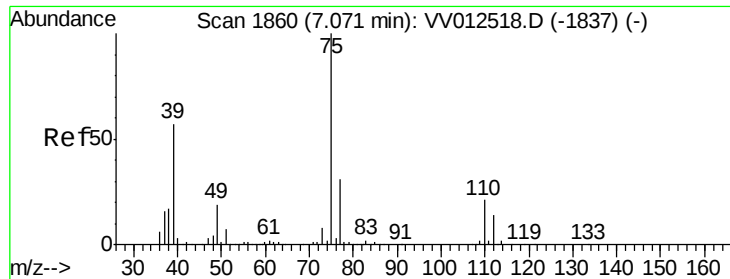
Ion Ratio Lower Upper

83 100

85 62.2 44.2 82.0

127 8.0 6.2 9.2

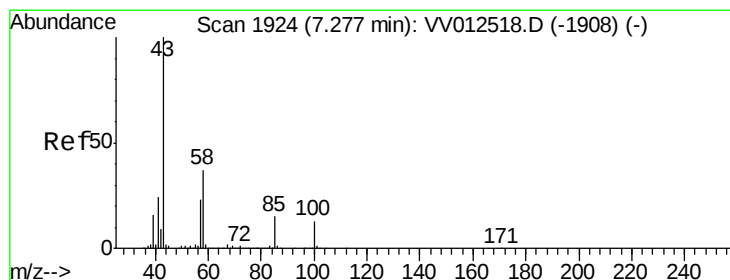
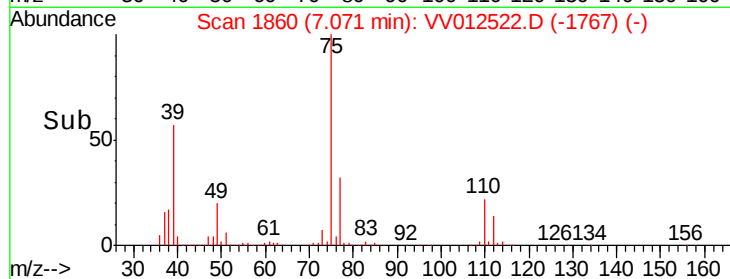
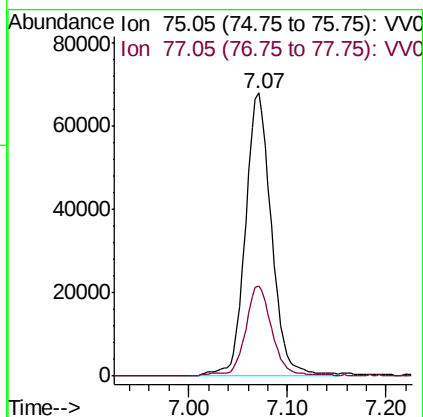
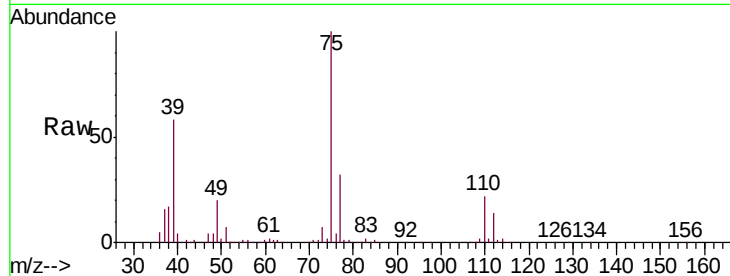




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.982 ug/L  
 RT: 7.07 min Scan# 1860  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

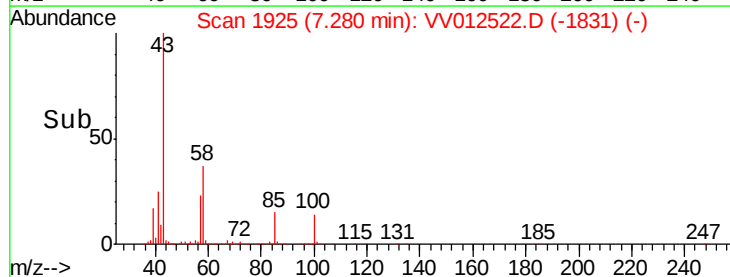
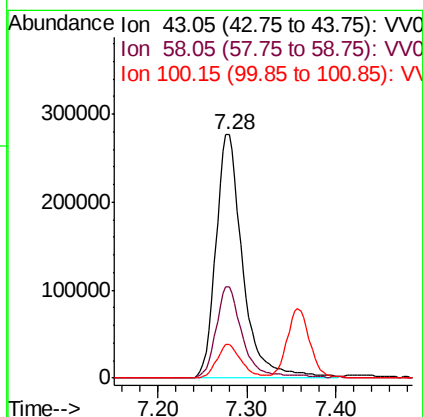
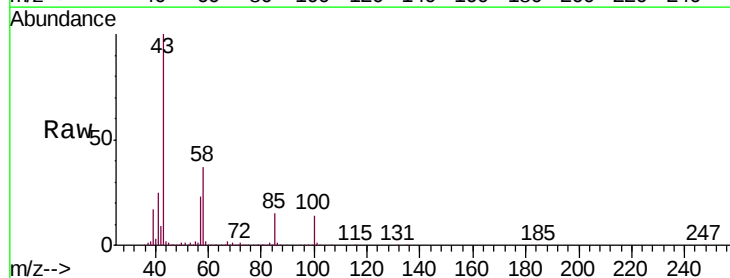
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

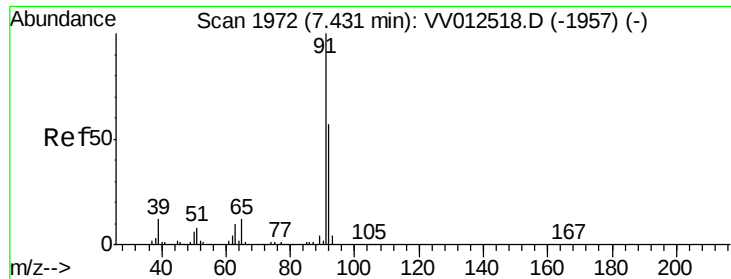
Tgt Ion: 75 Resp: 124157  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 21.6 40.0



#40  
 4-Methyl-2-pentanone  
 Concen: 51.695 ug/L  
 RT: 7.28 min Scan# 1925  
 Delta R.T. 0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Tgt Ion: 43 Resp: 575533  
 Ion Ratio Lower Upper  
 43 100  
 58 37.4 28.2 42.2  
 100 12.8 9.9 14.9





#42

Toluene

Concen: 5.018 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

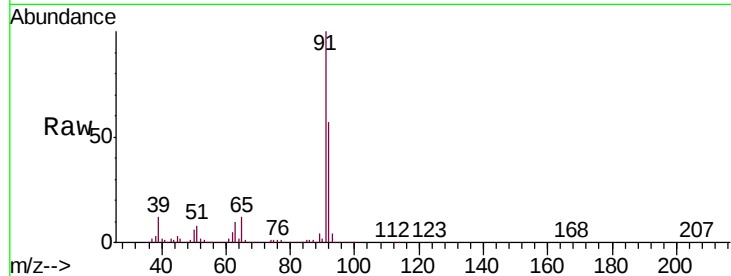
VSTD00560

Tgt Ion: 91 Resp: 390617

Ion Ratio Lower Upper

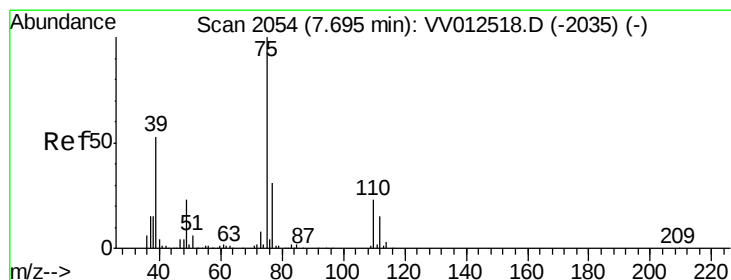
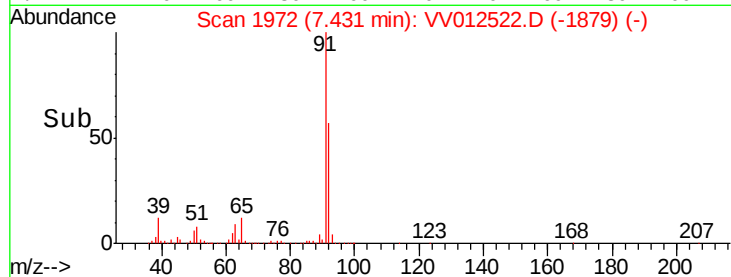
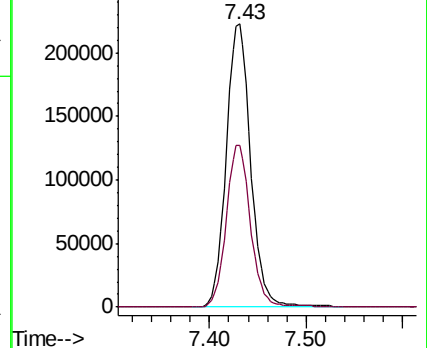
91 100

92 57.4 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 4.895 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012522.D

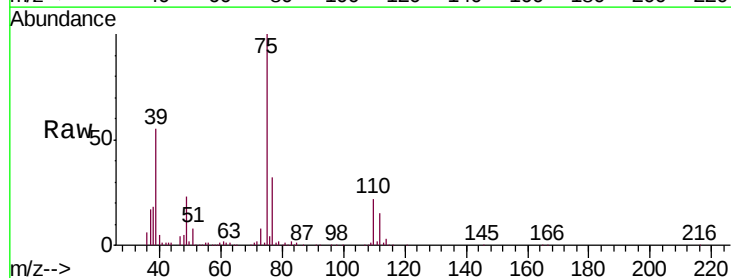
Acq: 02 Sep 2019 12:11

Tgt Ion: 75 Resp: 96662

Ion Ratio Lower Upper

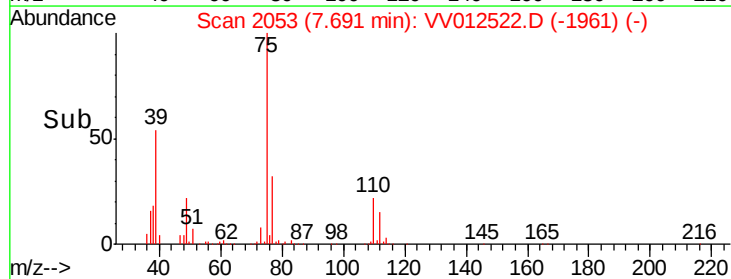
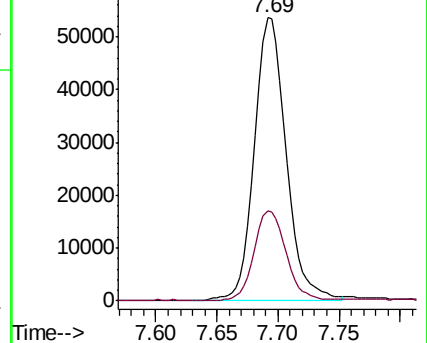
75 100

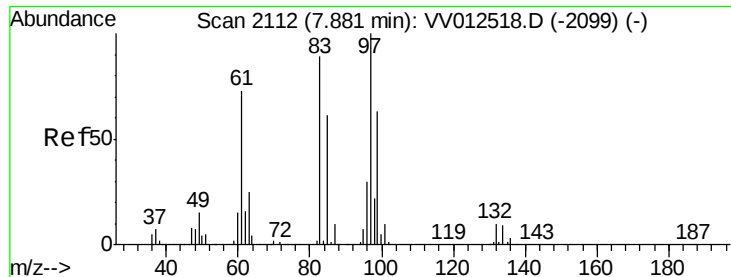
77 31.7 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

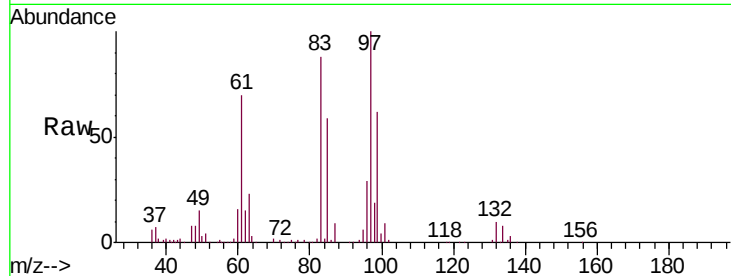




#45  
 1,1,2-Trichloroethane  
 Concen: 4.876 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 59072 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.0  | 44.1  | 81.9  |
| 83       | 87.6  | 62.7  | 116.5 |
| 85       | 59.5  | 42.6  | 79.0  |



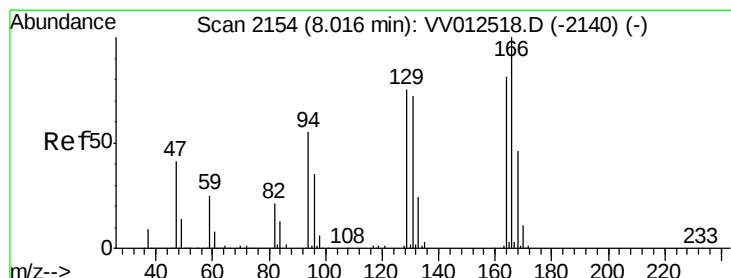
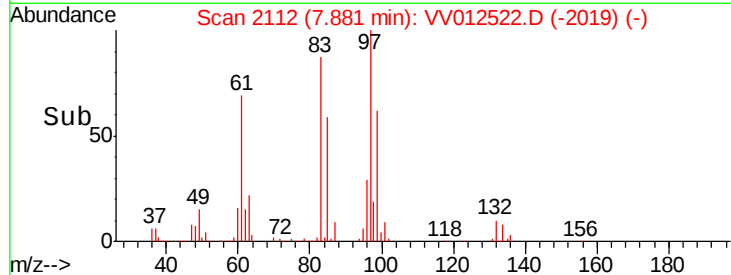
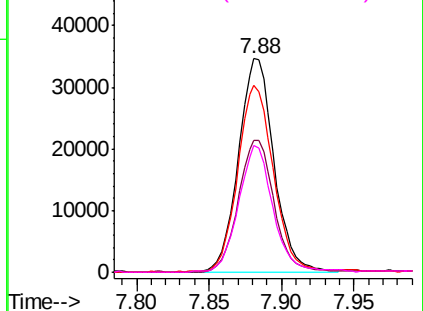
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

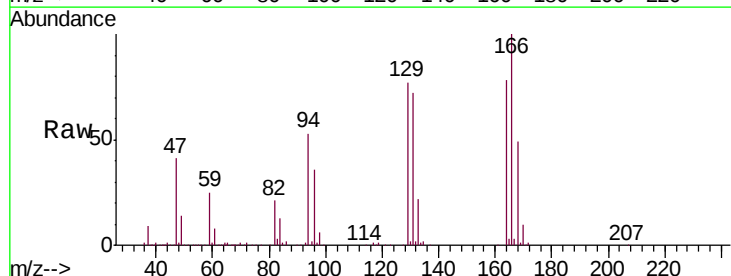
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47  
 Tetrachloroethene  
 Concen: 4.667 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 66914 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.7  | 64.5  | 119.9 |
| 131      | 92.8  | 62.3  | 115.7 |
| 166      | 129.0 | 86.5  | 160.6 |



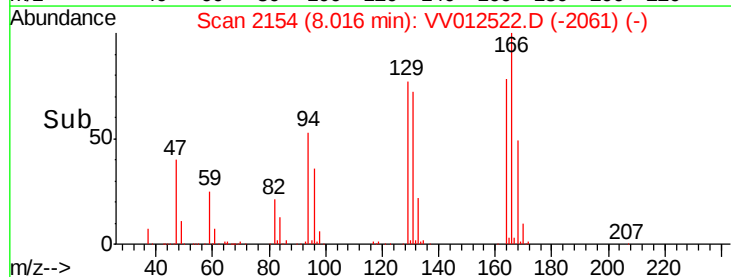
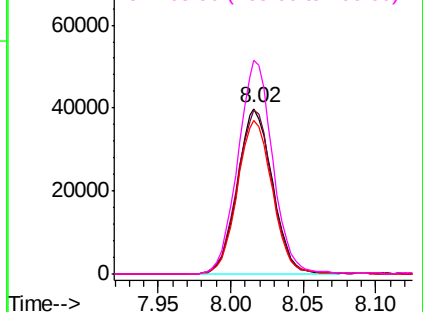
Abundance

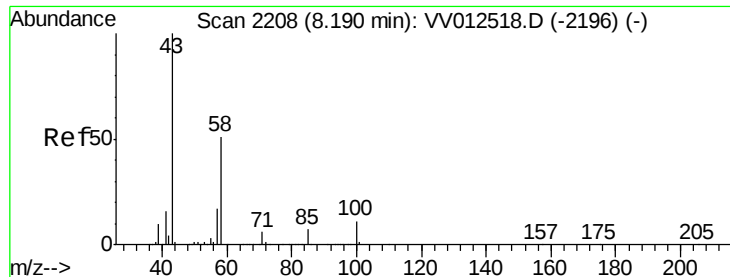
Ion 163.90 (163.60 to 164.60): V

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

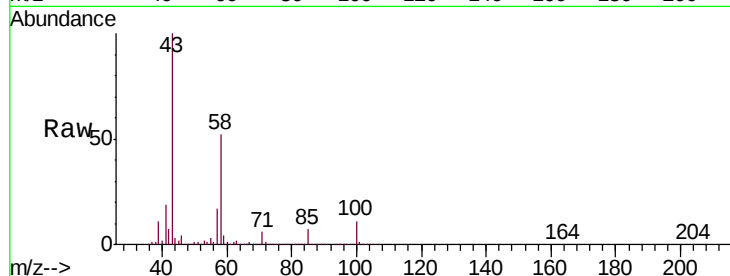




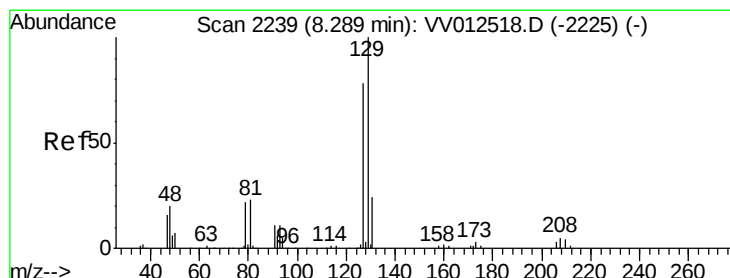
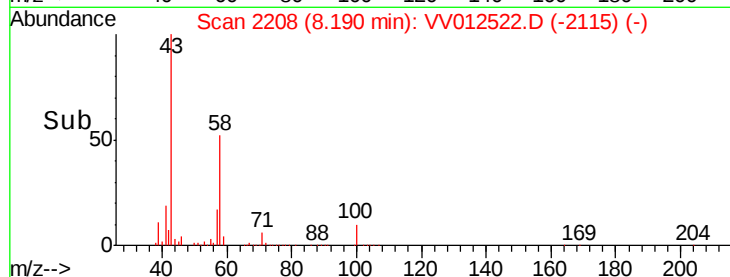
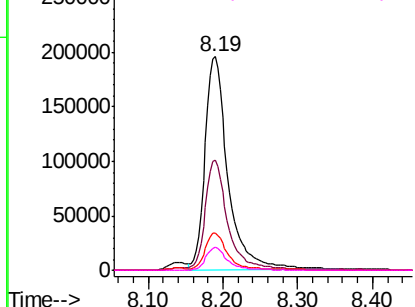
#48  
2-Hexanone  
Concen: 53.456 ug/L  
RT: 8.19 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

Tgt Ion: 43 Resp: 417082  
Ion Ratio Lower Upper  
43 100  
58 48.9 40.0 60.0  
57 17.1 13.4 20.2  
100 10.3 8.2 12.2

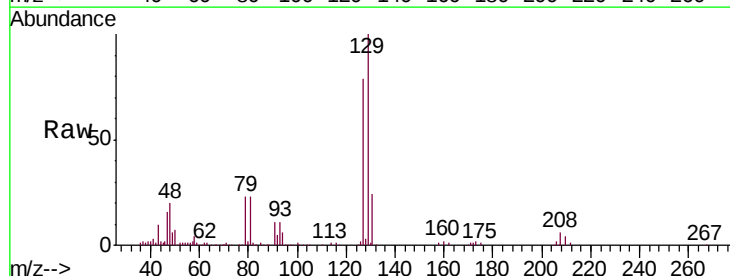


Abundance Ion 43.05 (42.75 to 43.75): VV012522.D (-2115) (-)  
Ion 58.05 (57.75 to 58.75): VV012522.D (-2115) (-)  
Ion 57.20 (56.90 to 57.90): VV012522.D (-2115) (-)  
Ion 100.15 (99.85 to 100.85): VV012522.D (-2115) (-)

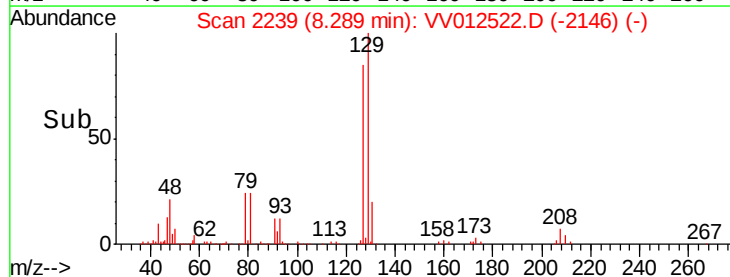
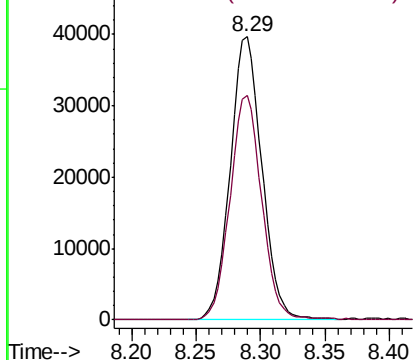


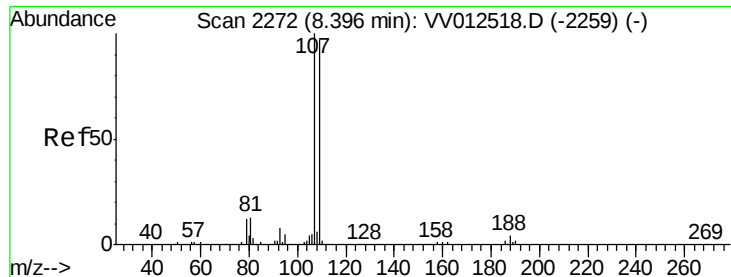
#49  
Dibromochloromethane  
Concen: 4.804 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Tgt Ion: 129 Resp: 67769  
Ion Ratio Lower Upper  
129 100  
127 79.5 54.9 102.1



Abundance Ion 128.95 (128.65 to 129.65): VV012522.D (-2146) (-)  
Ion 126.90 (126.60 to 127.60): VV012522.D (-2146) (-)

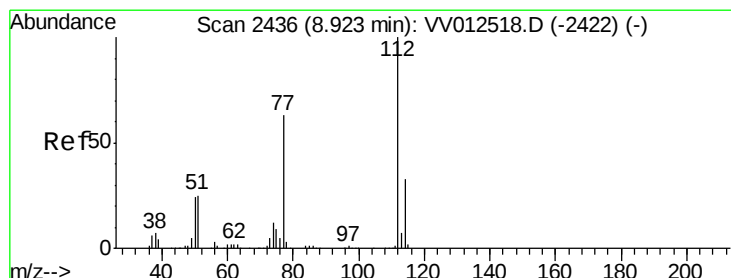
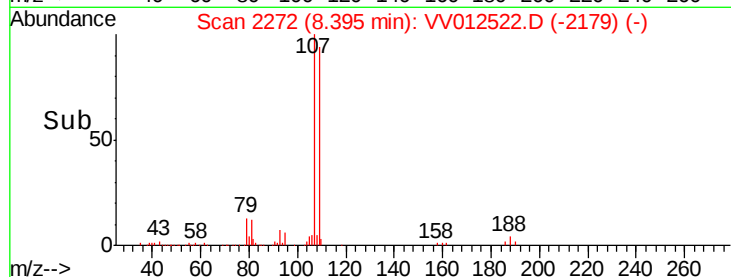
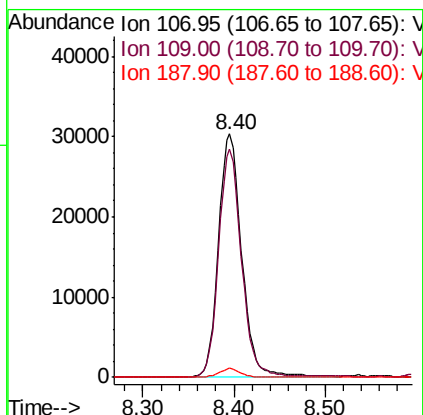
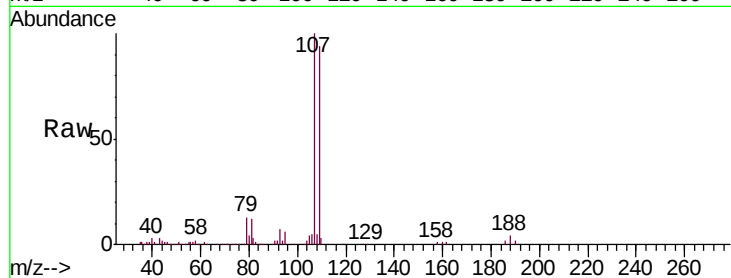




#50  
 1,2-Dibromoethane  
 Concen: 4.998 ug/L  
 RT: 8.40 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

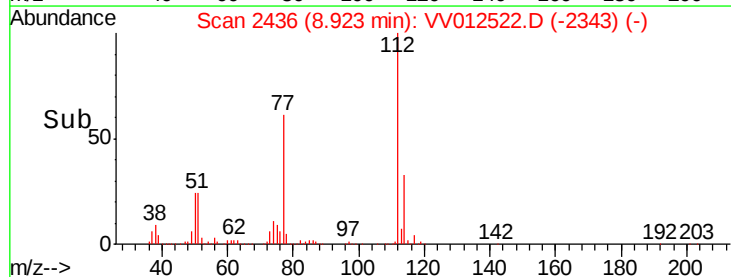
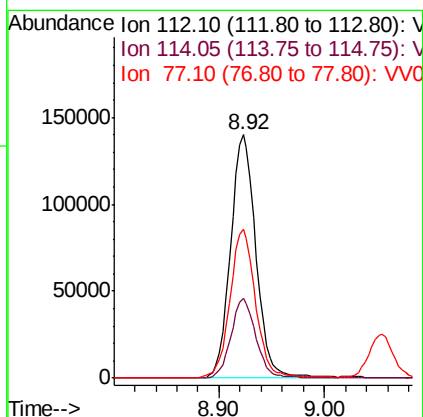
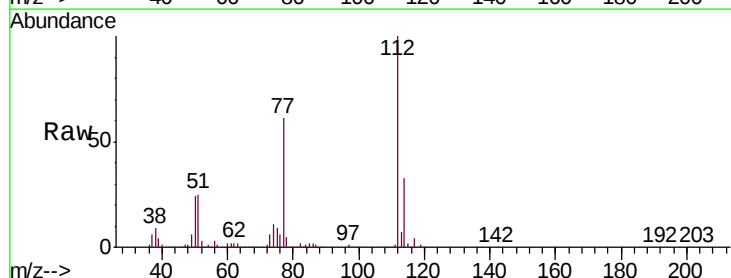
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

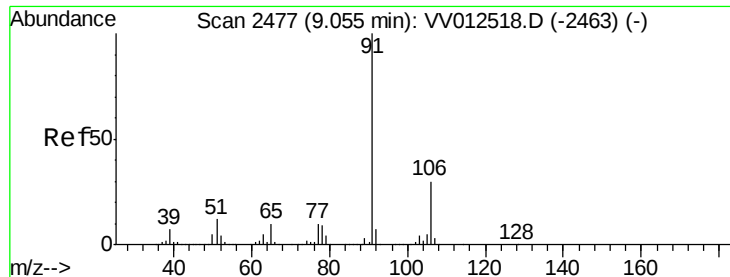
Tgt Ion:107 Resp: 54033  
 Ion Ratio Lower Upper  
 107 100  
 109 93.5 67.8 125.8  
 188 3.7 3.2 4.8



#51  
 Chlorobenzene  
 Concen: 4.759 ug/L  
 RT: 8.92 min Scan# 2436  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Tgt Ion:112 Resp: 232687  
 Ion Ratio Lower Upper  
 112 100  
 114 32.8 23.0 42.6  
 77 61.0 50.4 75.6





#52

Ethylbenzene

Concen: 5.015 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

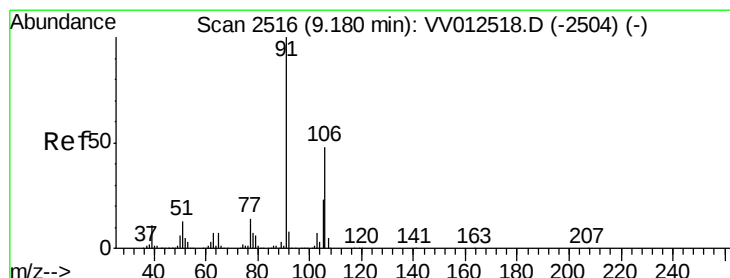
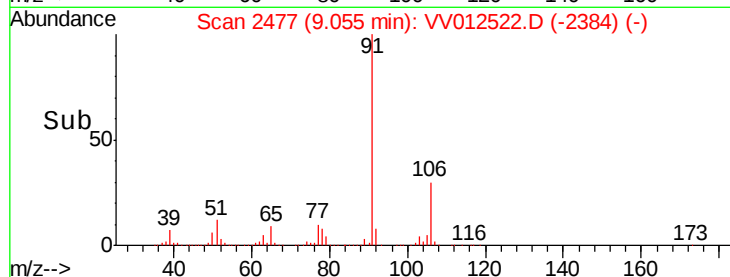
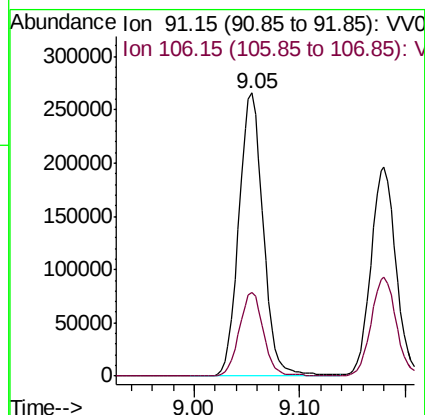
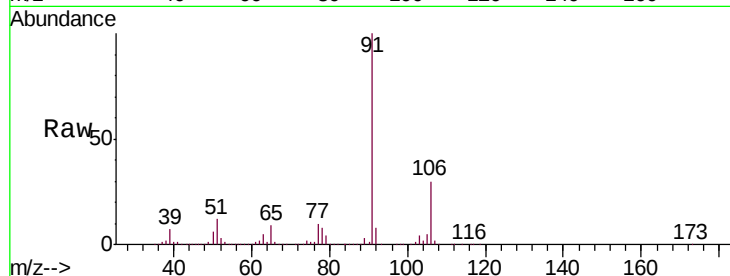
VSTD00560

Tgt Ion: 91 Resp: 425823

Ion Ratio Lower Upper

91 100

106 29.7 21.1 39.3



#53

m,p-xylene

Concen: 5.012 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012522.D

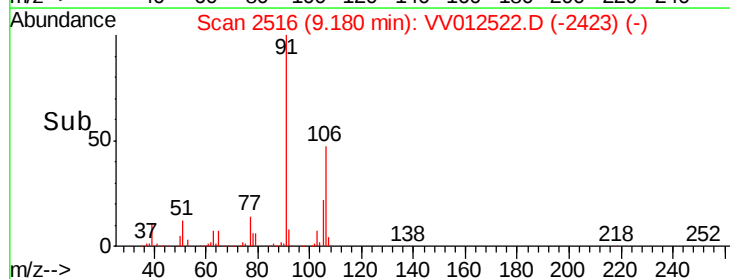
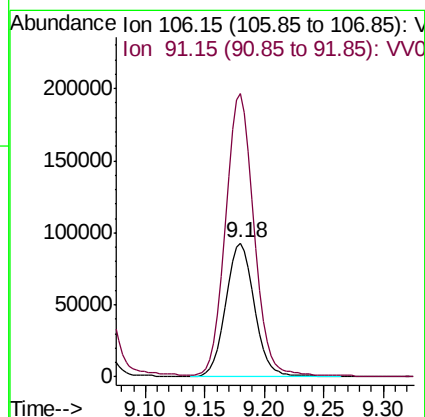
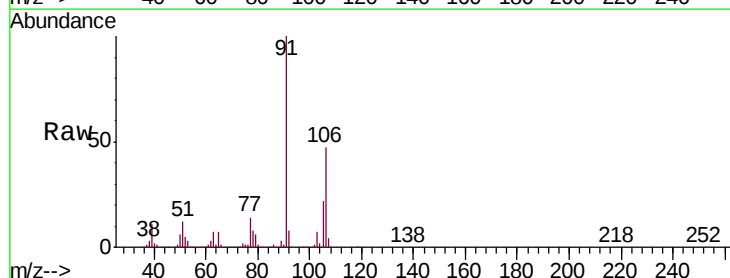
Acq: 02 Sep 2019 12:11

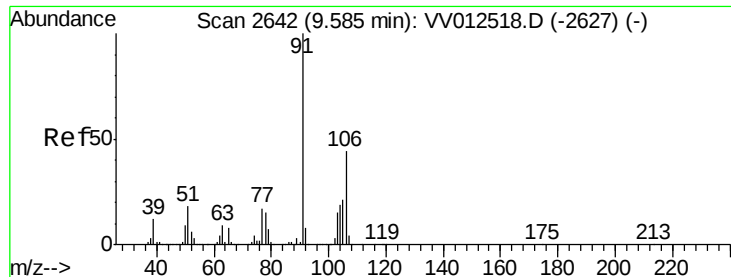
Tgt Ion: 106 Resp: 154343

Ion Ratio Lower Upper

106 100

91 211.6 145.8 270.8

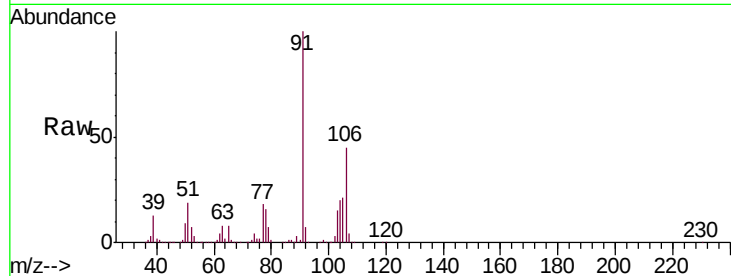




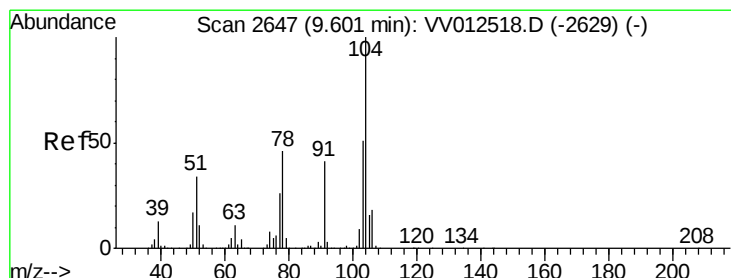
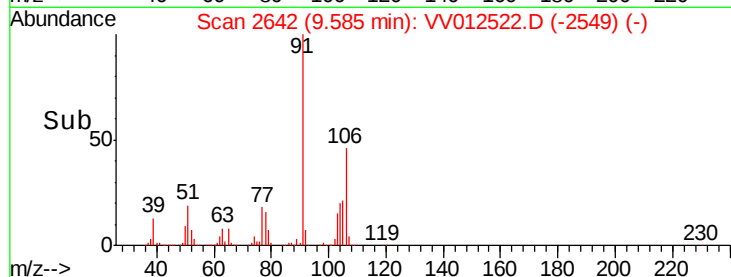
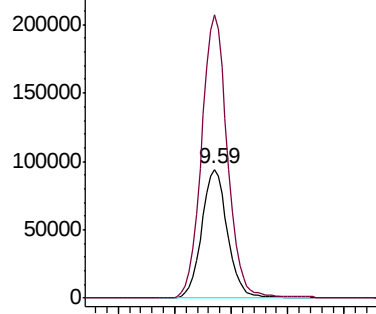
#54  
o-xylene  
Concen: 5.169 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00560

Tgt Ion:106 Resp: 150198  
Ion Ratio Lower Upper  
106 100  
91 220.0 159.5 296.3

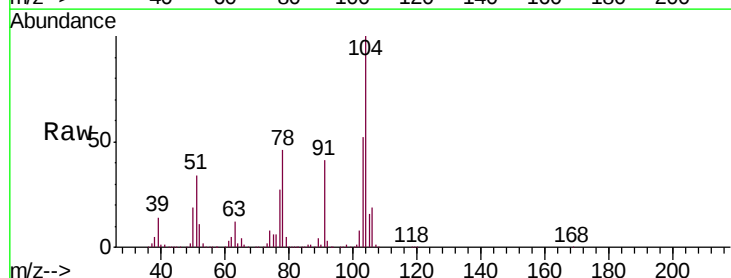


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

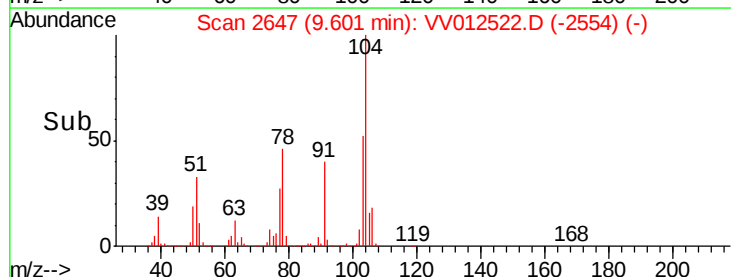
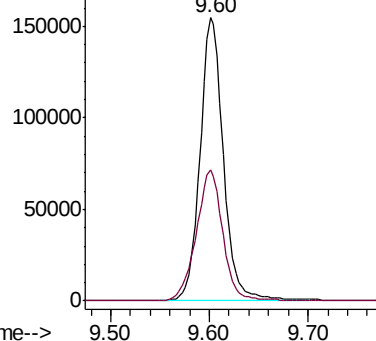


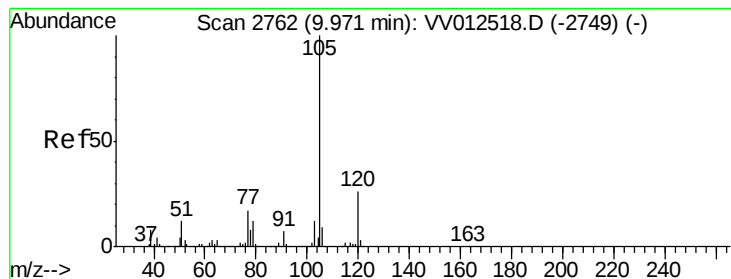
#55  
Styrene  
Concen: 5.206 ug/L  
RT: 9.60 min Scan# 2647  
Delta R.T. -0.00 min  
Lab File: VV012522.D  
Acq: 02 Sep 2019 12:11

Tgt Ion:104 Resp: 257370  
Ion Ratio Lower Upper  
104 100  
78 46.3 32.3 60.1



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





#56

Isopropylbenzene

Concen: 5.095 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

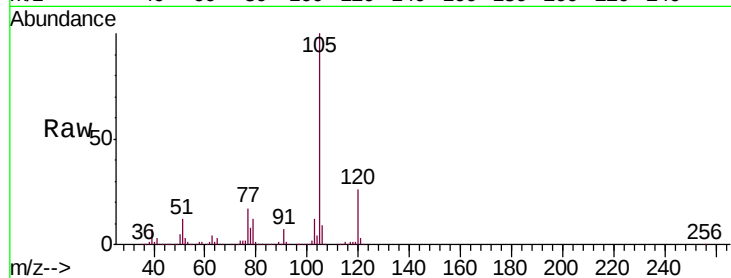
Tgt Ion: 105 Resp: 409805

Ion Ratio Lower Upper

105 100

120 25.8 20.9 31.3

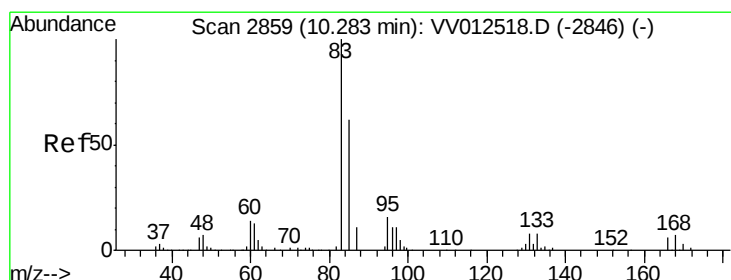
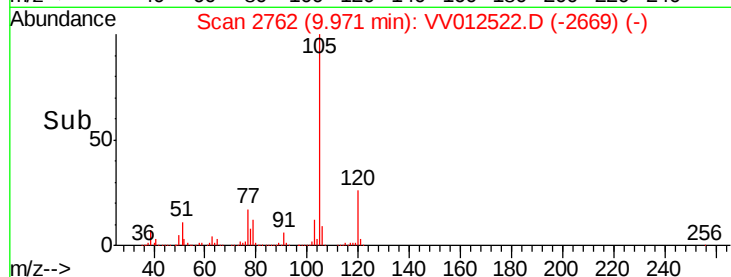
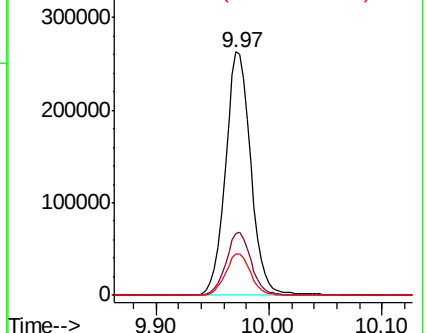
77 17.0 13.5 20.3



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: 4.806 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

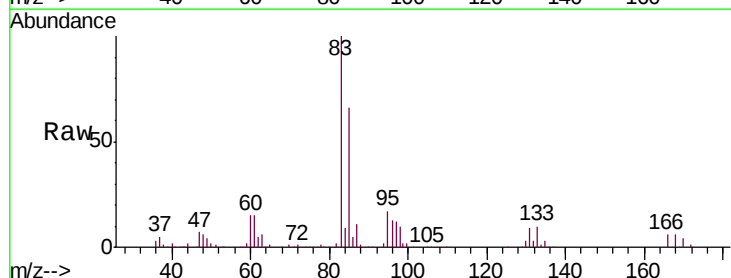
Tgt Ion: 83 Resp: 65520

Ion Ratio Lower Upper

83 100

85 66.5 43.8 81.4

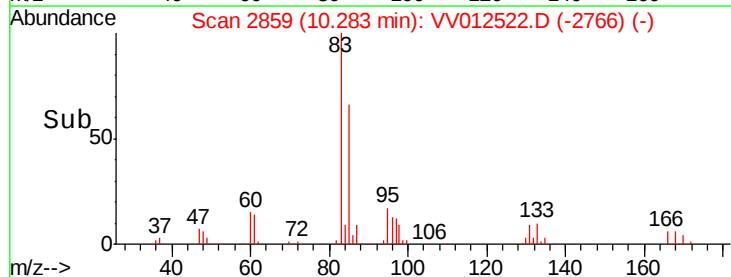
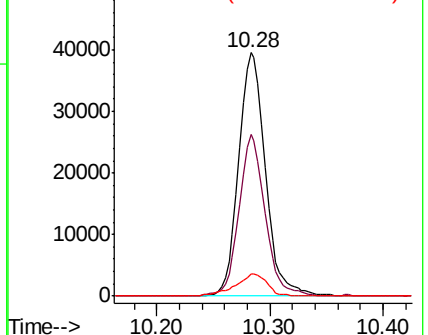
131 8.9 6.6 10.0

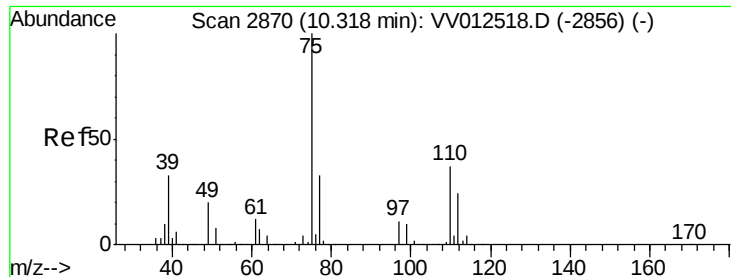


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.916 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

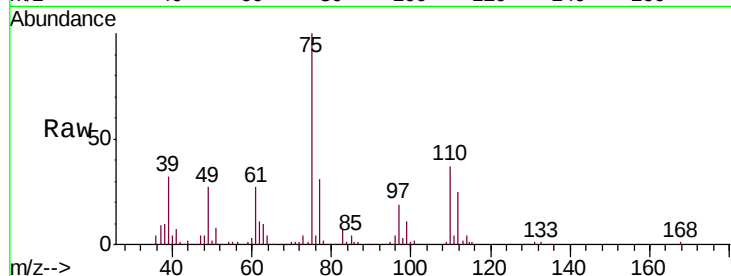
VSTD00560

Tgt Ion: 75 Resp: 52505

Ion Ratio Lower Upper

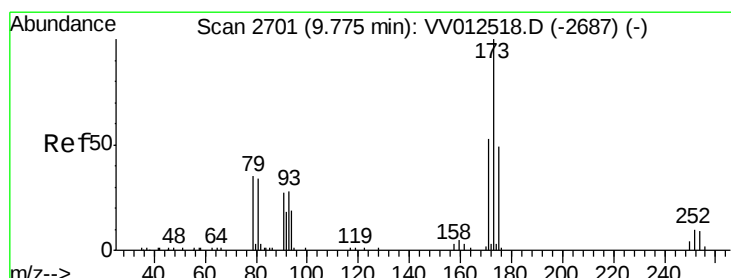
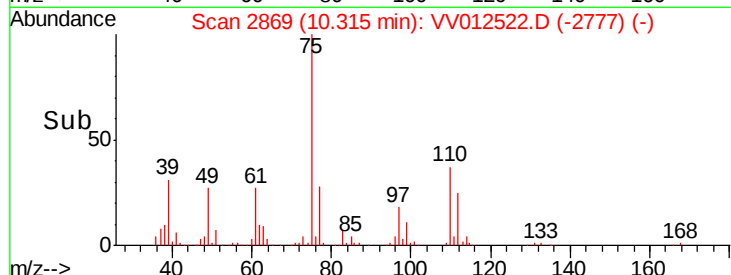
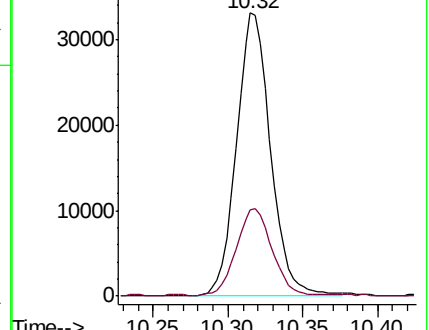
75 100

77 32.7 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VV012518.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012518.D (-2856) (-)



#61

Bromoform

Concen: 4.636 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

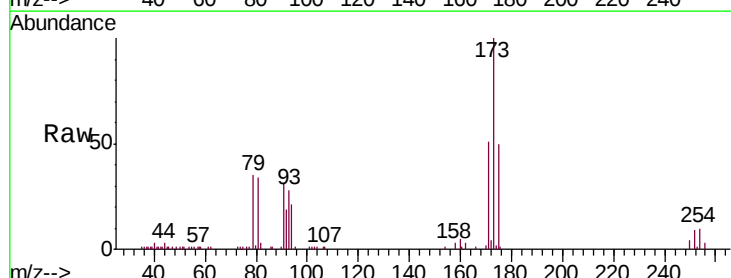
Tgt Ion: 173 Resp: 32721

Ion Ratio Lower Upper

173 100

175 50.3 39.1 58.7

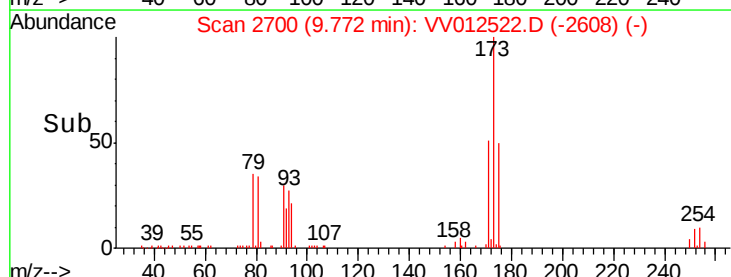
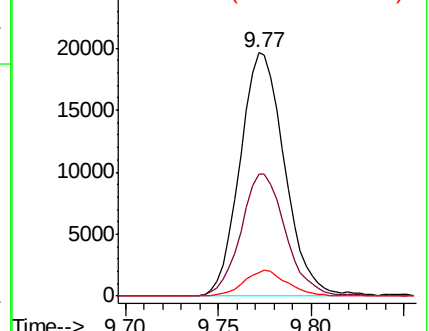
254 10.1 7.4 11.2

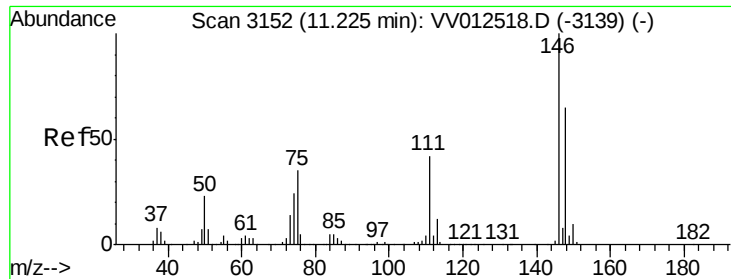


Abundance Ion 172.90 (172.60 to 173.60): VV012518.D (-2687) (-)

Ion 174.90 (174.60 to 175.60): VV012518.D (-2687) (-)

Ion 253.75 (253.45 to 254.45): VV012518.D (-2687) (-)

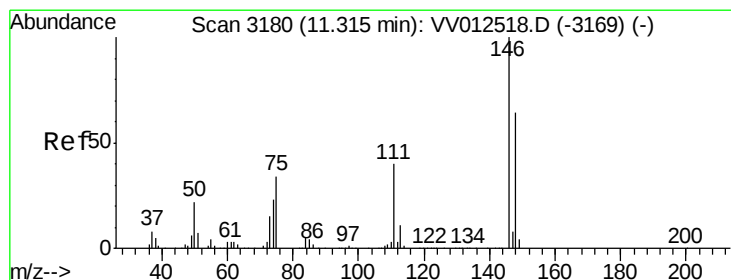
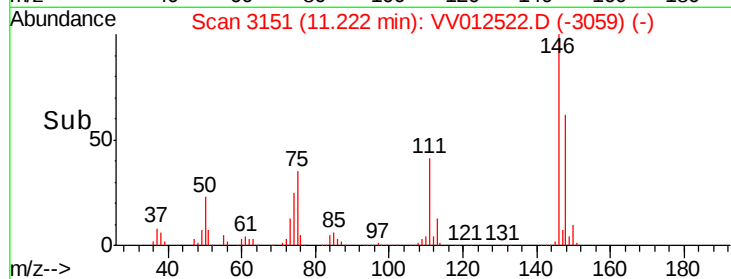
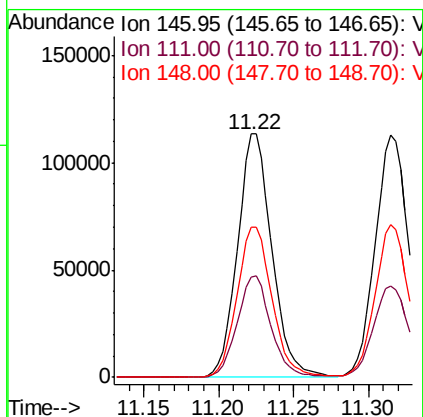
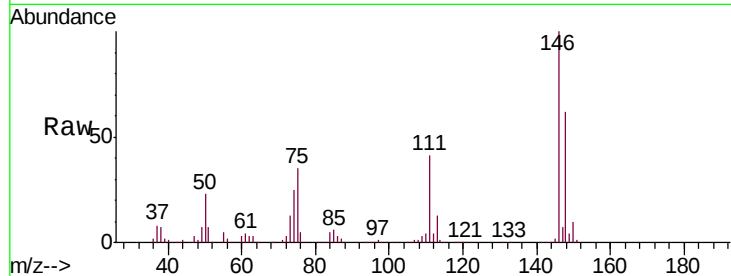




#62  
 1,3-Dichlorobenzene  
 Concen: 4.838 ug/L  
 RT: 11.22 min Scan# 3151  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

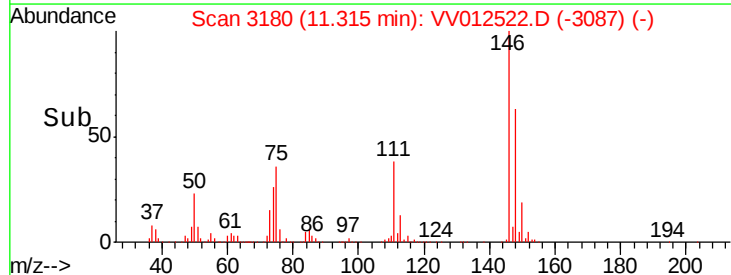
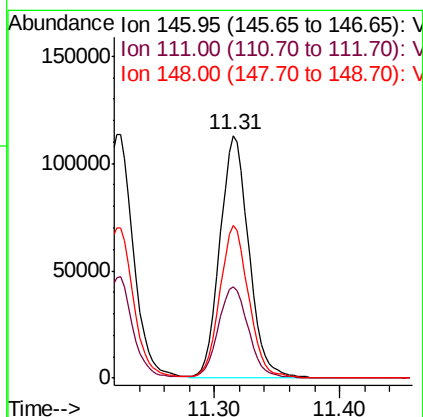
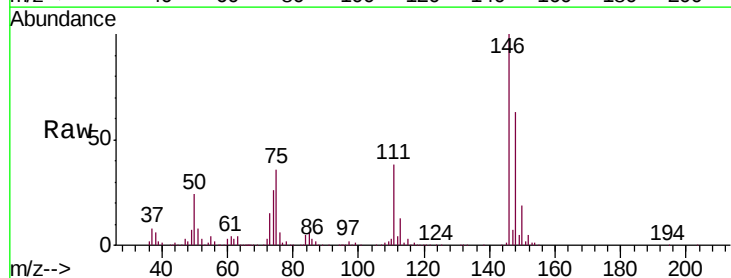
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD00560

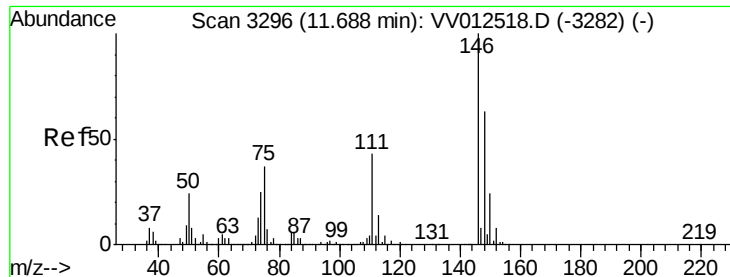
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 29.7  | 55.1  |
| 148     | 61.7  | 45.7  | 84.9  |



#63  
 1,4-Dichlorobenzene  
 Concen: 4.674 ug/L  
 RT: 11.31 min Scan# 3180  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.7  | 27.9  | 51.7  |
| 148     | 62.9  | 44.9  | 83.3  |

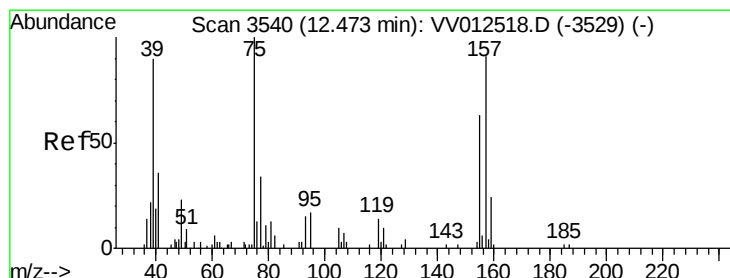
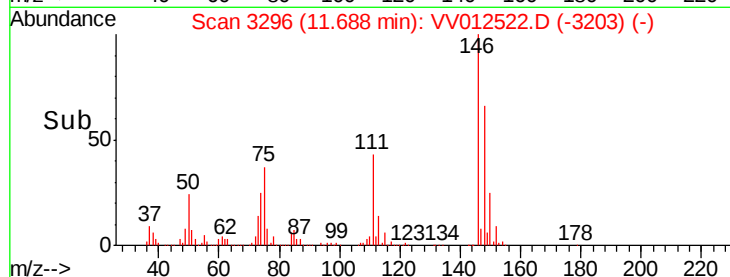
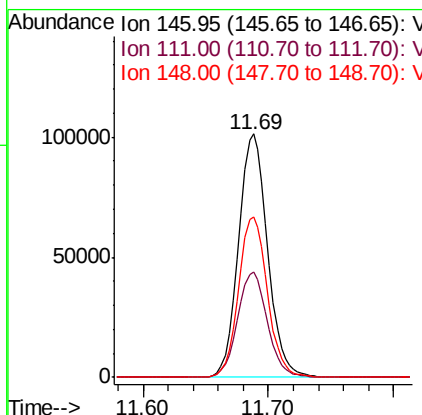
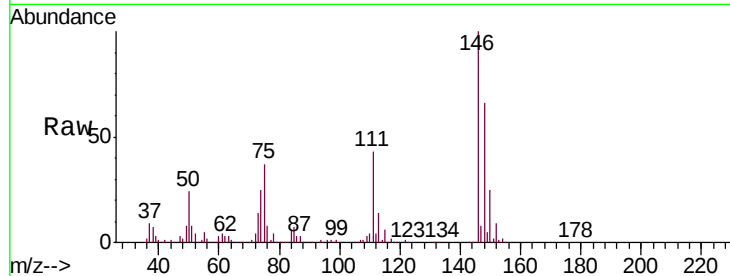




#65  
 1,2-Dichlorobenzene  
 Concen: 4.738 ug/L  
 RT: 11.69 min Scan# 3296  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

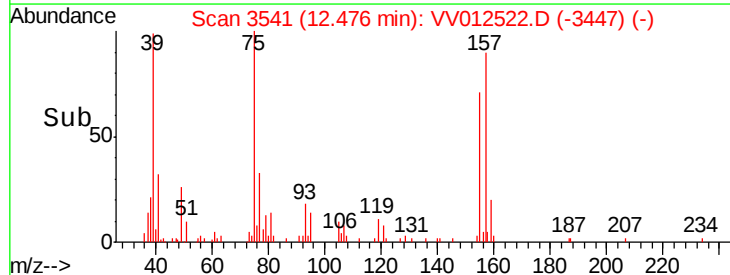
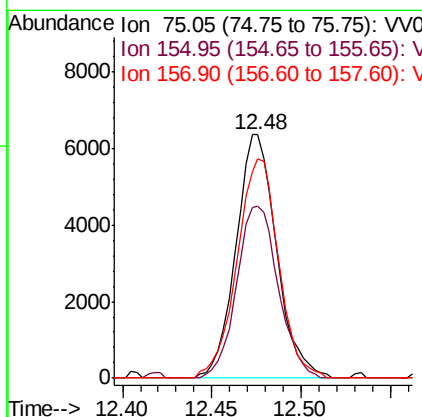
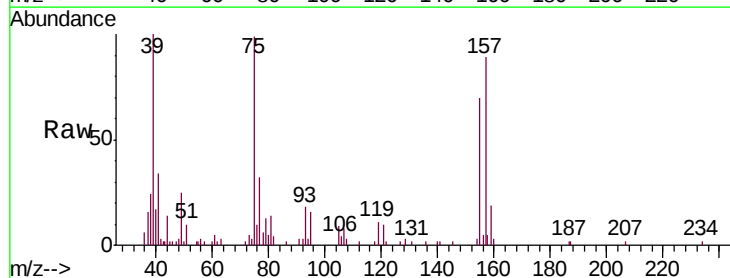
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD00560

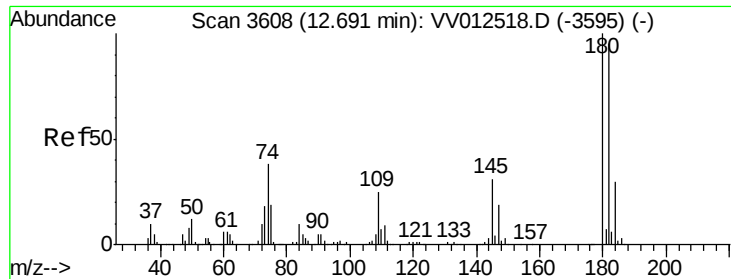
Tgt Ion: 146 Resp: 162798  
 Ion Ratio Lower Upper  
 146 100  
 111 43.4 34.2 51.2  
 148 65.8 50.8 76.2



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.376 ug/L  
 RT: 12.48 min Scan# 3541  
 Delta R.T. 0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Tgt Ion: 75 Resp: 10135  
 Ion Ratio Lower Upper  
 75 100  
 155 70.8 50.6 75.8  
 157 90.2 72.6 109.0

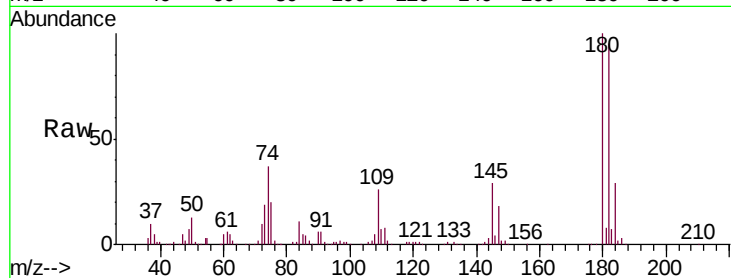




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.734 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.9  | 74.4  | 111.6 |
| 184     | 30.0  | 23.4  | 35.0  |
| 145     | 29.6  | 24.0  | 36.0  |



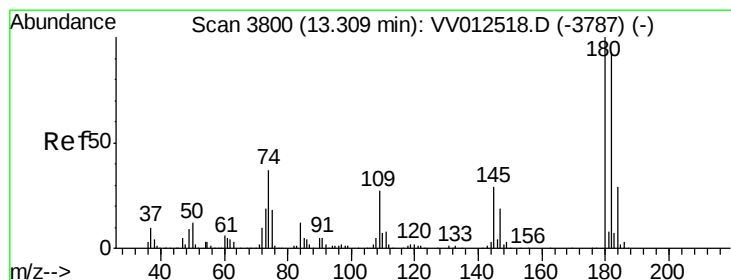
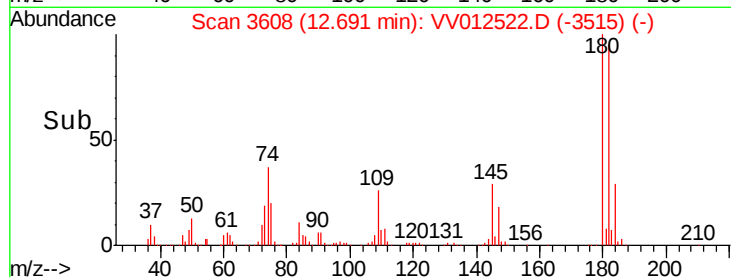
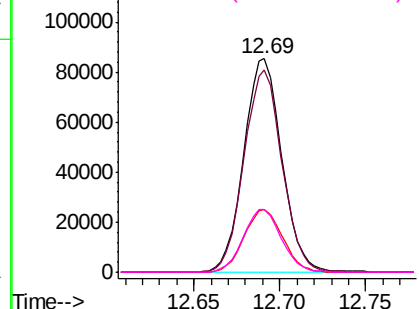
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

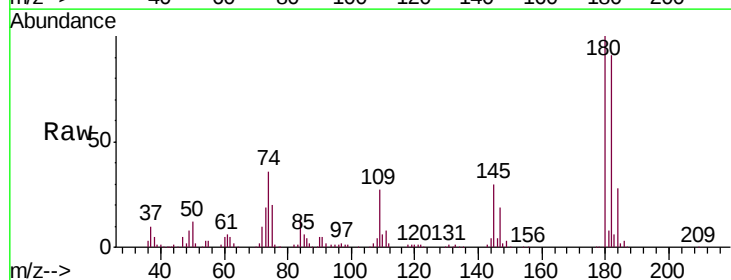
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 5.066 ug/L  
 RT: 13.31 min Scan# 3800  
 Delta R.T. -0.00 min  
 Lab File: VV012522.D  
 Acq: 02 Sep 2019 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.0  | 75.8  | 113.6 |
| 145     | 30.6  | 23.8  | 35.8  |

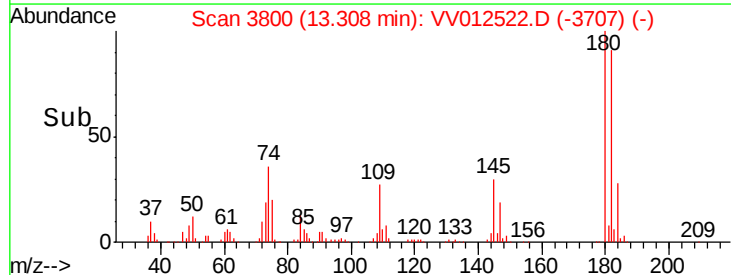
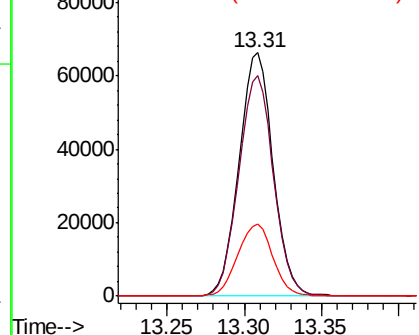


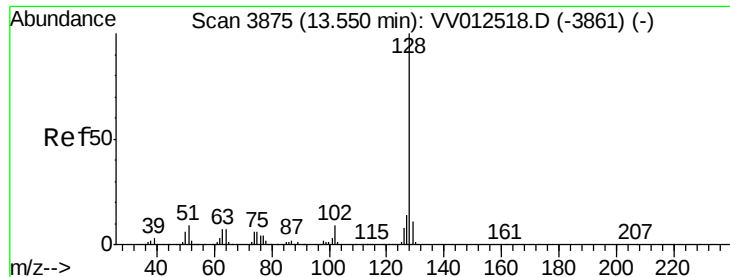
Abundance

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: 5.256 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00560

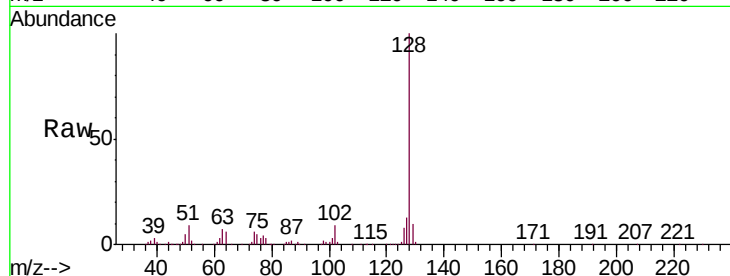
Tgt Ion:128 Resp: 155539

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

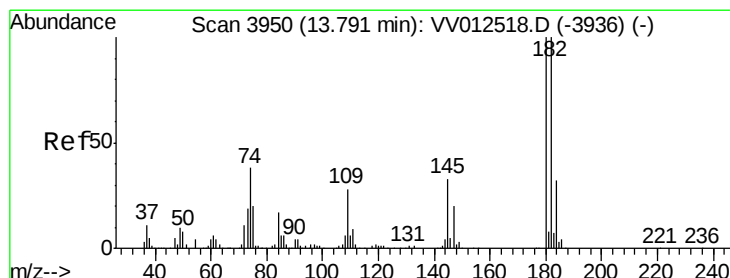
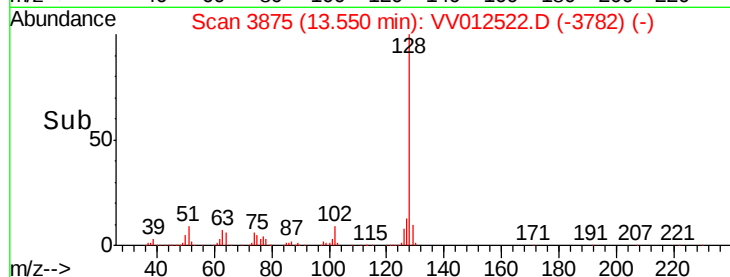
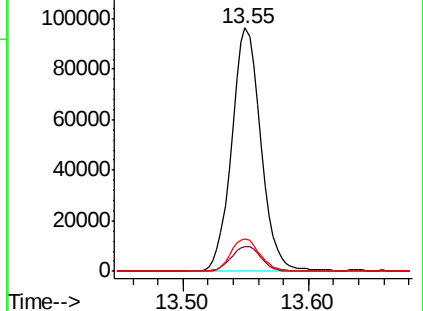
127 13.6 11.0 16.4



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: 5.227 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012522.D

Acq: 02 Sep 2019 12:11

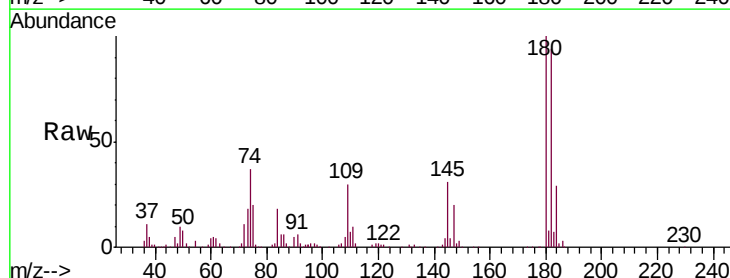
Tgt Ion:180 Resp: 94431

Ion Ratio Lower Upper

180 100

182 93.8 79.4 119.0

145 31.0 26.2 39.4



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

