

Data File : VV011801.D  
Acq On : 02 Jul 2019 11:16  
Operator : SY/MD  
Sample : VSTD01031  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

Quant Time: Jul 03 07:54:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 03 07:50:25 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 173502   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 169446   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 83443    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |      |       |
|--------------------------------|-------|-----|--------|-------|------|-------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 126596 | 9.69  | ug/L | 0.00  |
| 7) Chloroethane-d5             | 1.58  | 69  | 96425  | 11.13 | ug/L | 0.00  |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 245761 | 9.82  | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 3.95  | 46  | 333819 | 93.25 | ug/L | -0.02 |
| 24) Chloroform-d               | 4.40  | 84  | 253139 | 10.04 | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 133000 | 9.70  | ug/L | 0.00  |
| 32) Benzene-d6                 | 5.10  | 84  | 491920 | 9.80  | ug/L | 0.00  |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 149001 | 9.41  | ug/L | 0.00  |
| 41) Toluene-d8                 | 7.36  | 98  | 460001 | 10.20 | ug/L | 0.00  |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 56318  | 10.55 | ug/L | 0.00  |
| 46) 2-Hexanone-d5              | 8.13  | 63  | 270963 | 91.74 | ug/L | 0.00  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 109019 | 9.24  | ug/L | 0.00  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 158695 | 9.63  | ug/L | 0.00  |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 173083 | 10.819 ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 166574 | 9.806 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 163715 | 9.856 ug/L  | 98     |
| 6) Bromomethane                | 1.54 | 94  | 84622  | 11.546 ug/L | 99     |
| 8) Chloroethane                | 1.60 | 64  | 90493  | 10.686 ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 217019 | 11.381 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 118374 | 10.983 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 109894 | 10.088 ug/L | 94     |
| 13) Acetone                    | 2.21 | 43  | 210884 | 86.989 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 311927 | 10.561 ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 52231  | 8.315 ug/L  | 92     |
| 16) Methylene chloride         | 2.53 | 84  | 113543 | 9.191 ug/L  | 95     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 292265 | 9.189 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 126218 | 10.287 ug/L | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 249923 | 9.854 ug/L  | 98     |
| 21) 2-Butanone                 | 4.04 | 43  | 362970 | 94.276 ug/L | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 138844 | 10.008 ug/L | 97     |
| 23) Bromochloromethane         | 4.30 | 128 | 53880  | 9.736 ug/L  | 98     |
| 25) Chloroform                 | 4.43 | 83  | 253384 | 9.925 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 164503 | 9.264 ug/L  | 100    |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 213349 | 10.132 ug/L | 99     |
| 30) Cyclohexane                | 4.72 | 56  | 232210 | 10.480 ug/L | 99     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 186139 | 10.760 ug/L | 98     |
| 33) Benzene                    | 5.15 | 78  | 547506 | 9.917 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 138337 | 9.829 ug/L  | 97     |
| 35) Methylcyclohexane          | 6.17 | 83  | 236254 | 11.359 ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 135587 | 9.213 ug/L  | 98     |
| 38) Bromodichloromethane       | 6.56 | 83  | 164123 | 9.869 ug/L  | 96     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 196848 | 10.574 ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.27 | 43  | 894144 | 87.734 ug/L | 99     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 03 07:50:25 2019  
Response via : Initial Calibration

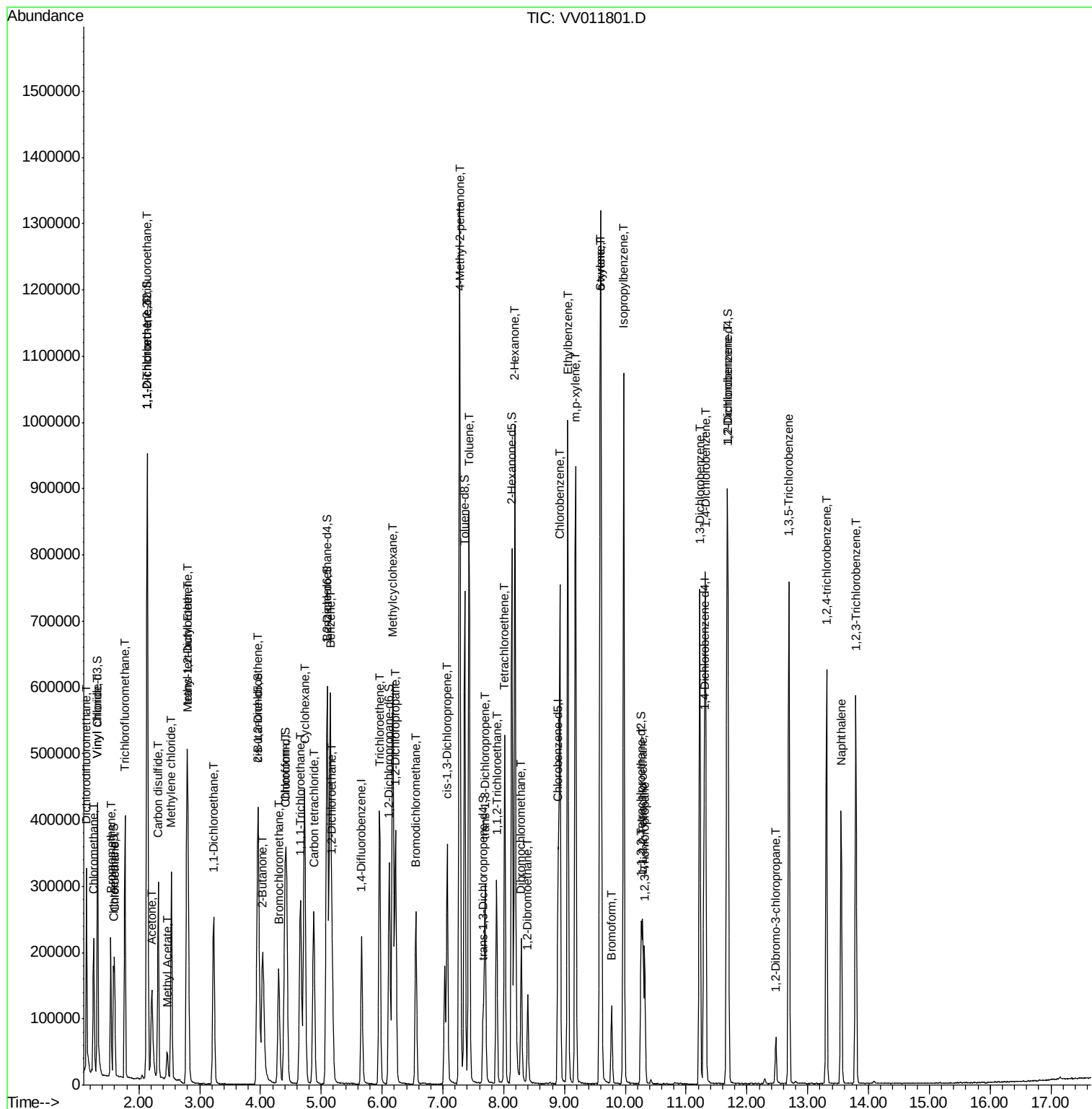
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 592769   | 10.284 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 156321   | 10.964 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 88340    | 9.109  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 109802   | 10.600 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.18  | 43   | 644911   | 90.004 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 100668   | 10.272 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 82723    | 9.420  | ug/L  | 99       |
| 51) Chlorobenzene              | 8.92  | 112  | 359945   | 10.135 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 661900   | 10.828 | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 245433   | 10.966 | ug/L  | 97       |
| 54) o-xylene                   | 9.59  | 106  | 237020   | 10.625 | ug/L  | 98       |
| 55) Styrene                    | 9.60  | 104  | 407649   | 11.001 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.97  | 105  | 641548   | 11.139 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 108261   | 9.145  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 80167    | 8.896  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 48840    | 9.318  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 277316   | 10.194 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 275736   | 9.974  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 259766   | 9.605  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 16244    | 8.485  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 212804   | 10.554 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 175419   | 10.832 | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 302948   | 9.875  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 164150   | 10.510 | ug/L  | 99       |

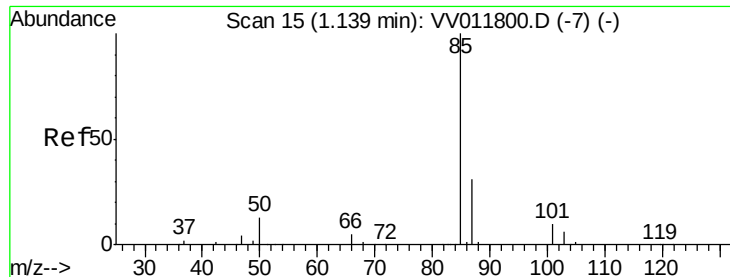
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 10.819 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

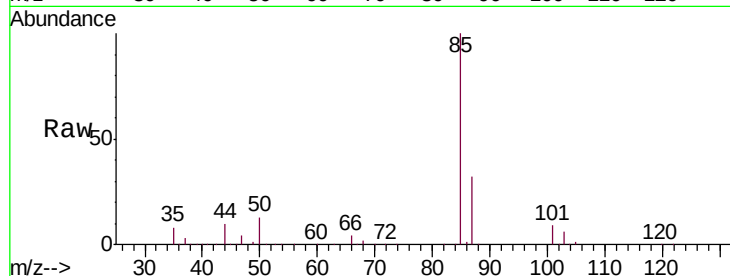
VSTD01031

Tgt Ion: 85 Resp: 173083

Ion Ratio Lower Upper

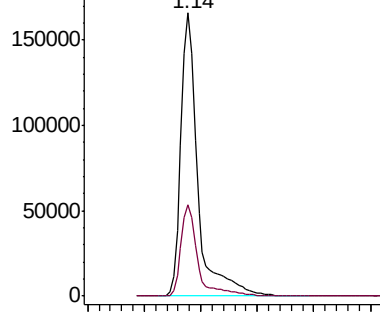
85 100

87 32.1 25.4 38.2

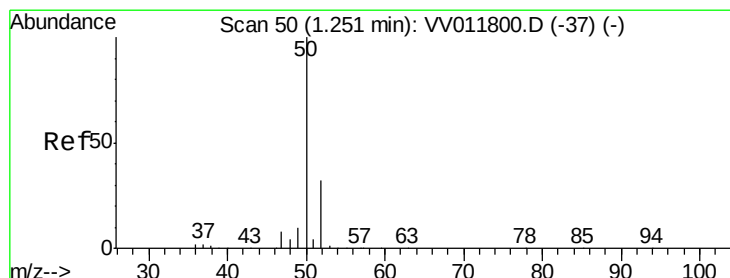
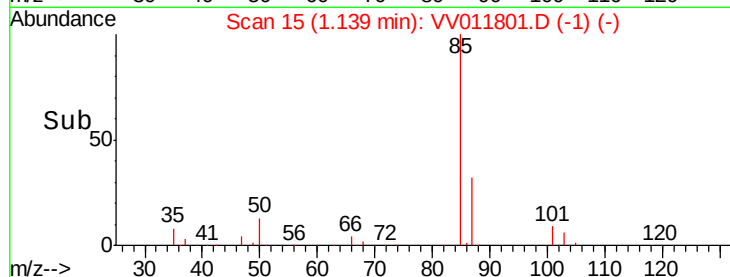


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time--> 1.05 1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 9.806 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV011801.D

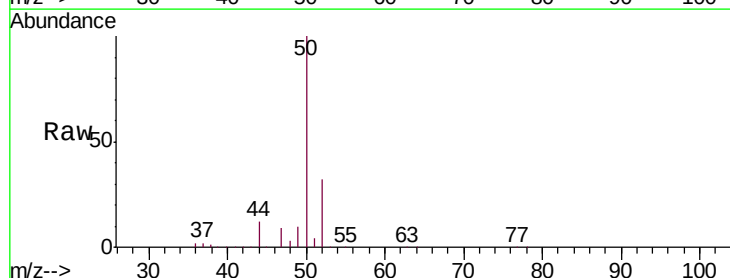
Acq: 02 Jul 2019 11:16

Tgt Ion: 50 Resp: 166574

Ion Ratio Lower Upper

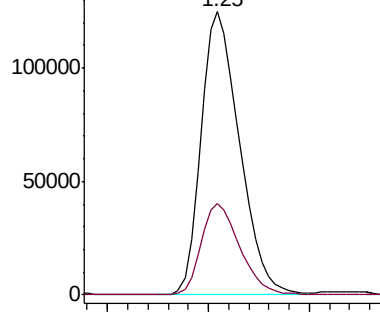
50 100

52 32.1 22.3 41.3

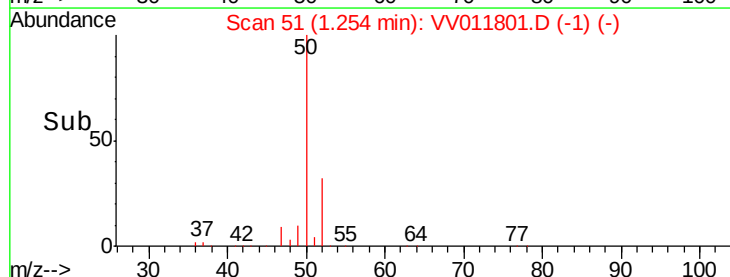


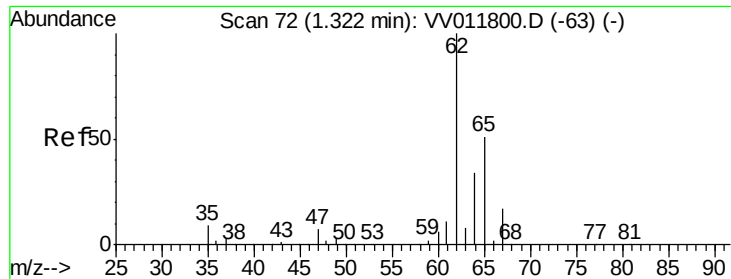
Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



Time--> 1.20 1.25 1.30





#5

Vinyl chloride

Concen: 9.856 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

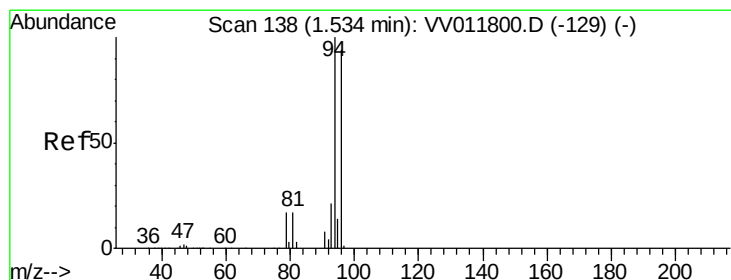
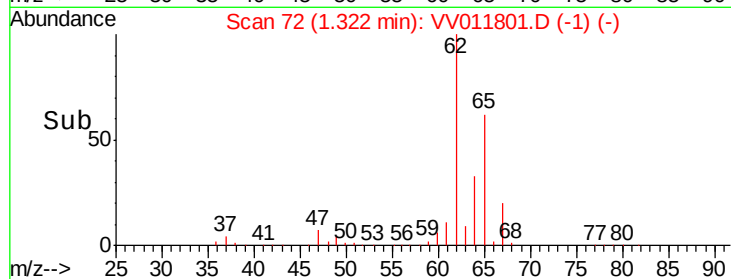
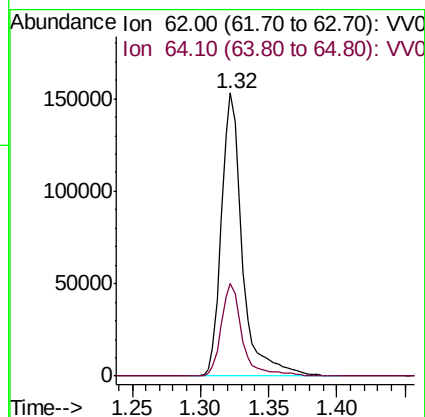
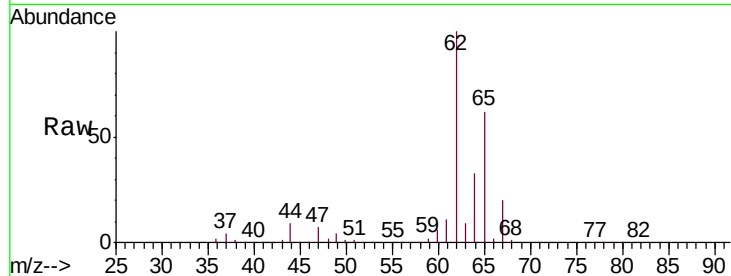
VSTD01031

Tgt Ion: 62 Resp: 163715

Ion Ratio Lower Upper

62 100

64 32.9 23.7 43.9



#6

Bromomethane

Concen: 11.546 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV011801.D

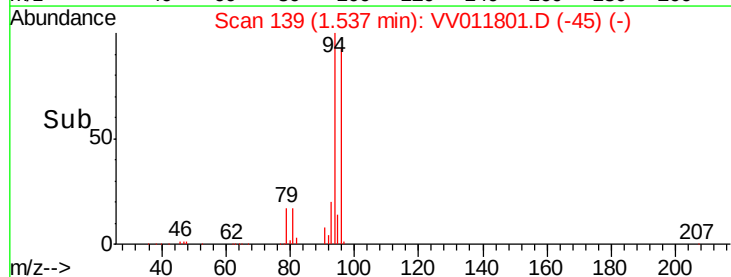
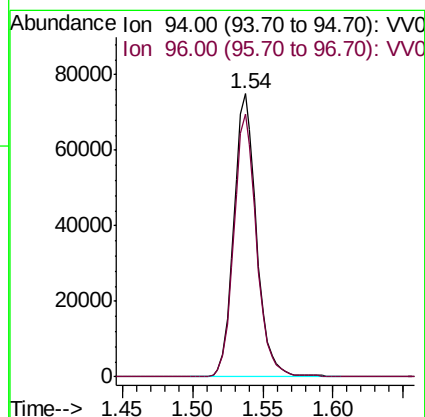
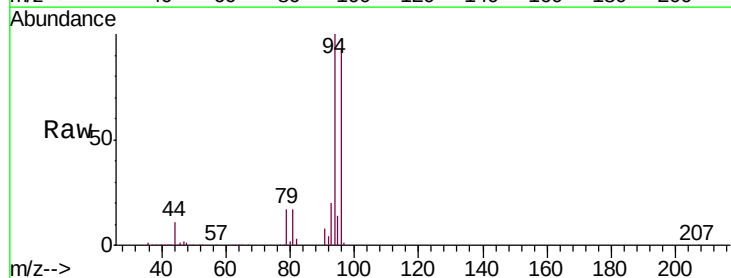
Acq: 02 Jul 2019 11:16

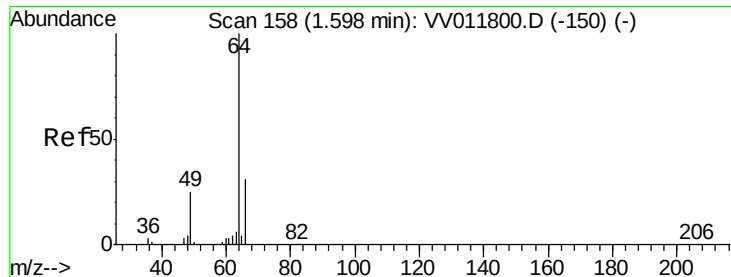
Tgt Ion: 94 Resp: 84622

Ion Ratio Lower Upper

94 100

96 93.0 65.9 122.5





#8

Chloroethane

Concen: 10.686 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

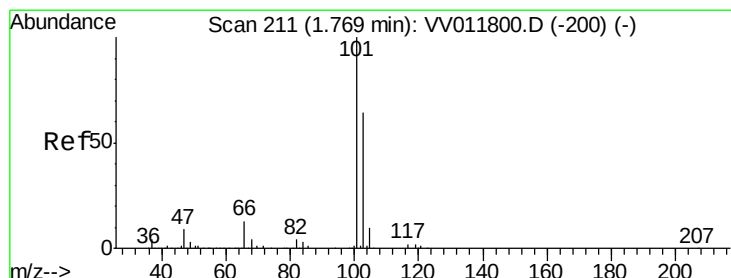
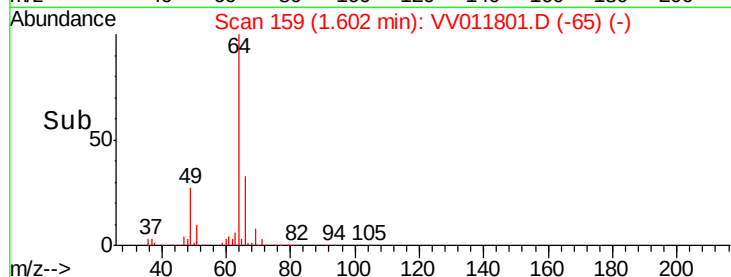
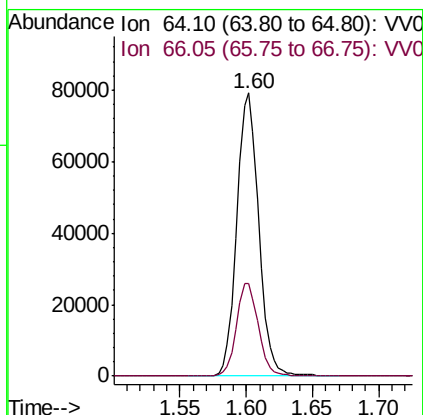
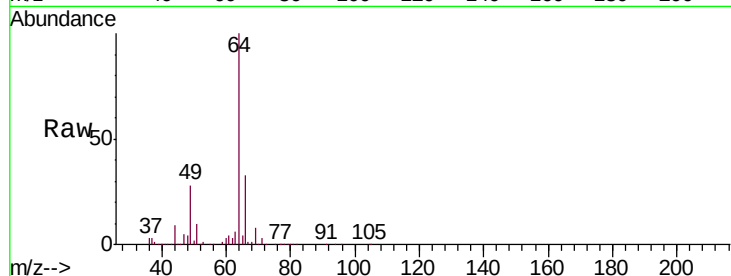
VSTD01031

Tgt Ion: 64 Resp: 90493

Ion Ratio Lower Upper

64 100

66 32.9 21.8 40.6



#9

Trichlorofluoromethane

Concen: 11.381 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV011801.D

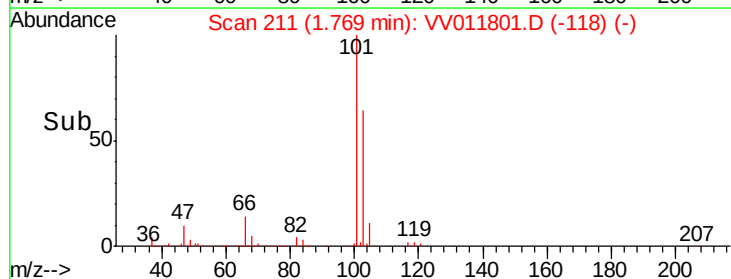
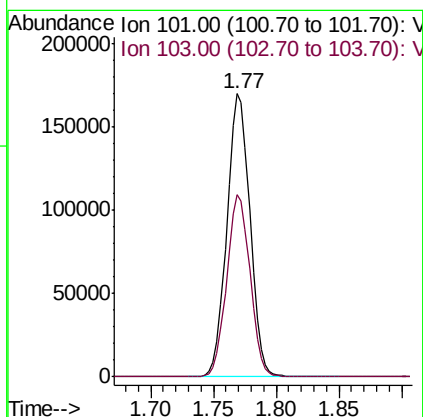
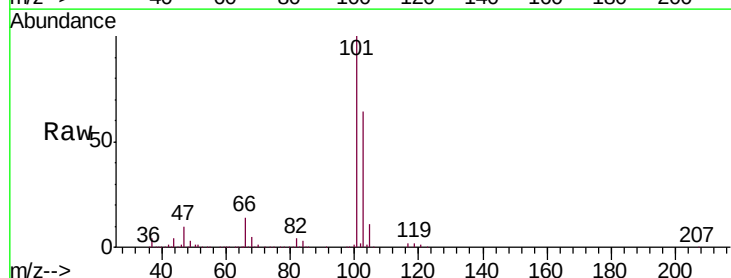
Acq: 02 Jul 2019 11:16

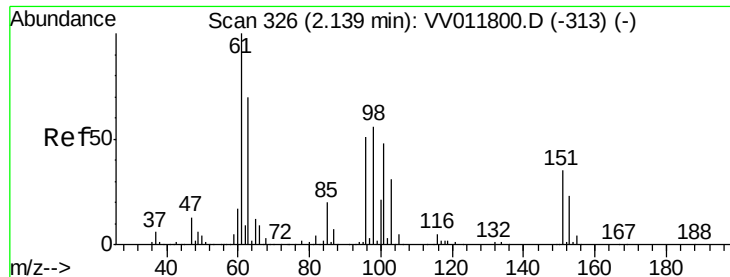
Tgt Ion: 101 Resp: 217019

Ion Ratio Lower Upper

101 100

103 64.7 52.0 78.0





#10

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

Concen: 10.983 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01031

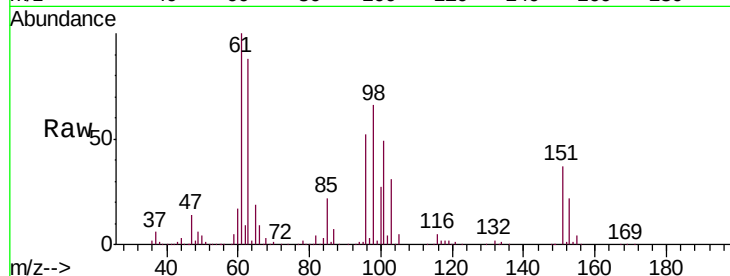
Tgt Ion: 101 Resp: 118374

Ion Ratio Lower Upper

101 100

85 44.9 34.8 52.2

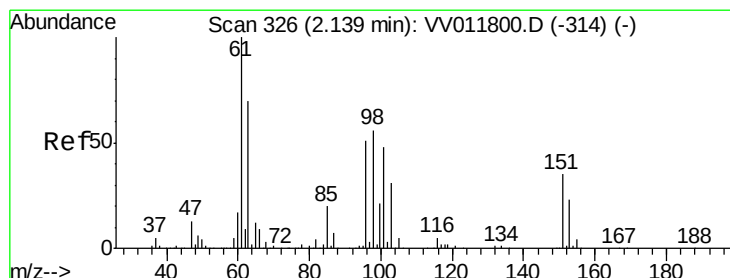
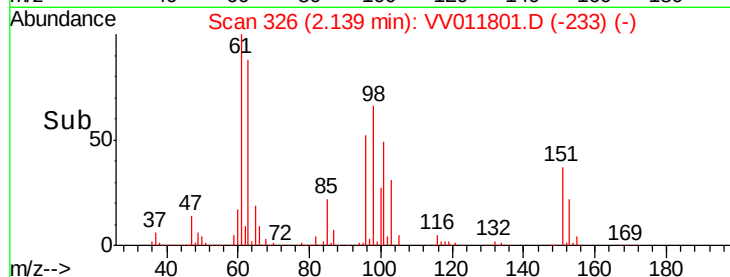
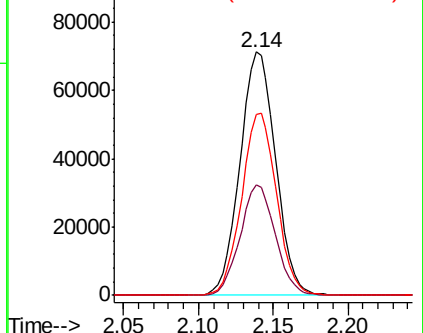
151 73.2 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 10.088 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

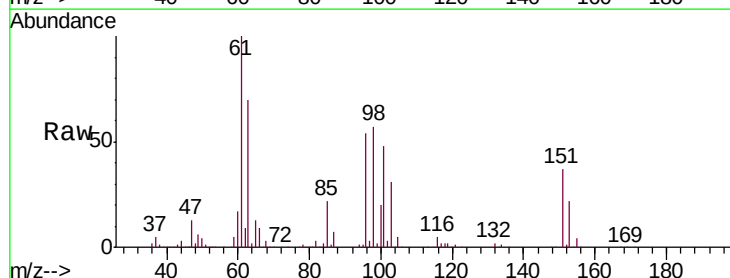
Tgt Ion: 96 Resp: 109894

Ion Ratio Lower Upper

96 100

61 186.3 137.1 254.5

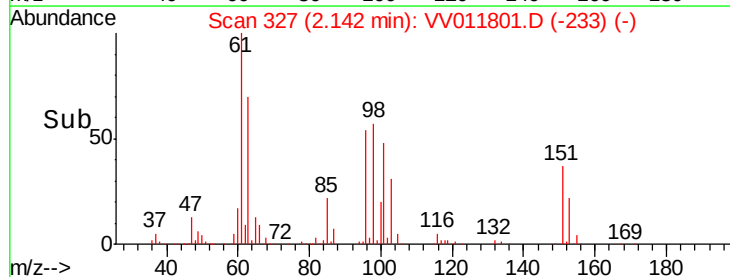
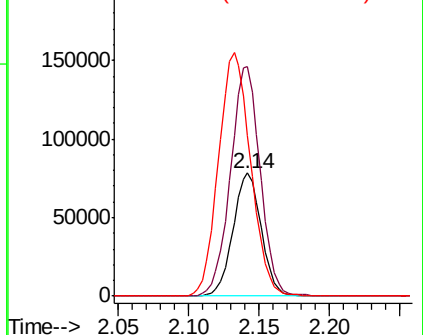
63 130.4 96.5 179.1

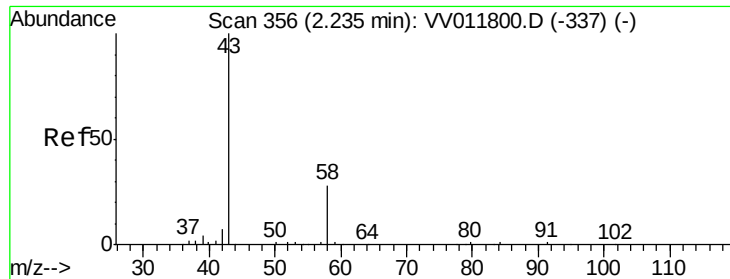


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 86.989 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.02 min

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ClientSampleId :

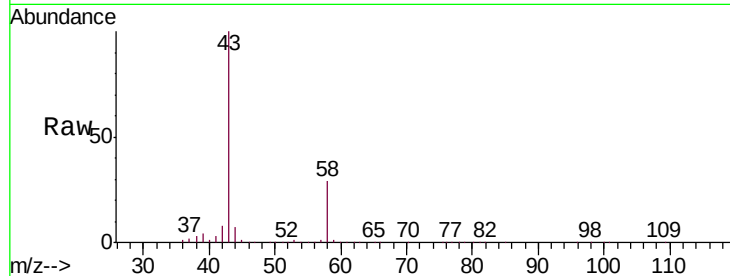
VSTD01031

Tgt Ion: 43 Resp: 210884

Ion Ratio Lower Upper

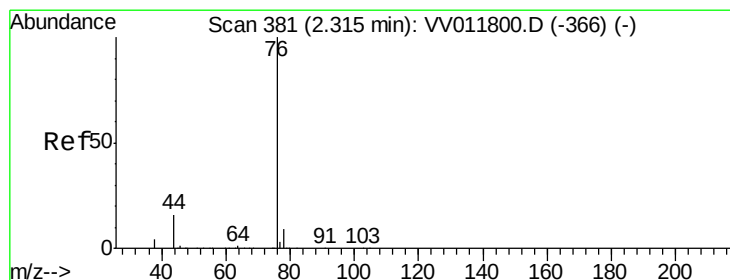
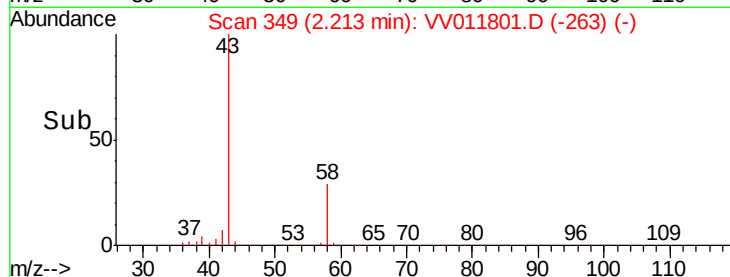
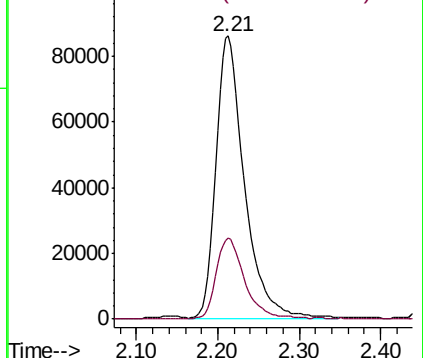
43 100

58 29.2 0.0 58.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 10.561 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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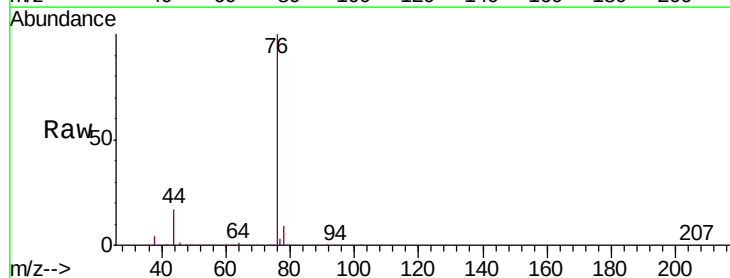
Acq: 02 Jul 2019 11:16

Tgt Ion: 76 Resp: 311927

Ion Ratio Lower Upper

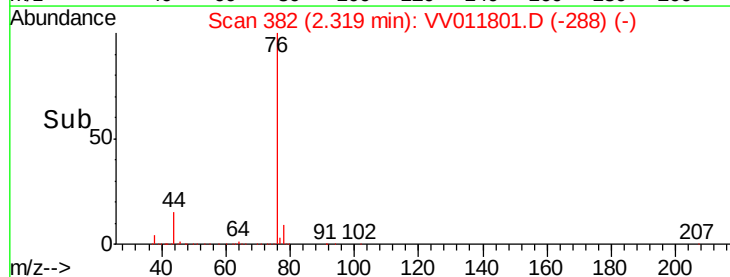
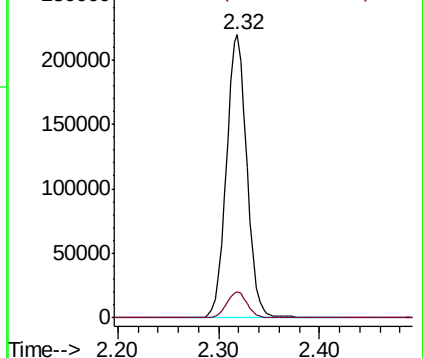
76 100

78 9.3 7.4 11.0

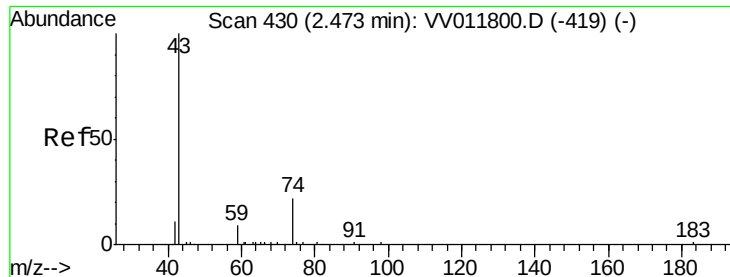


Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



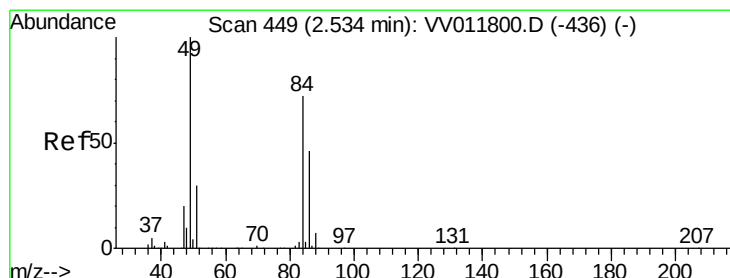
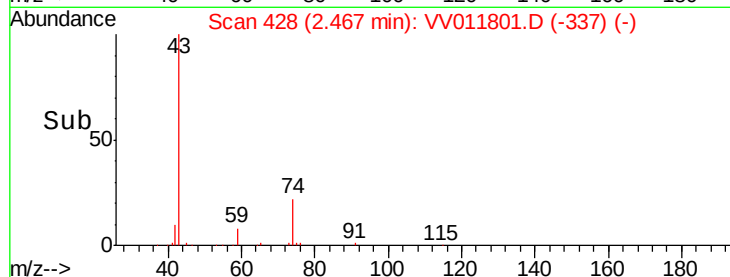
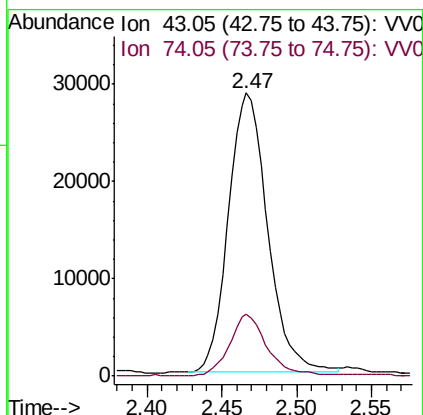
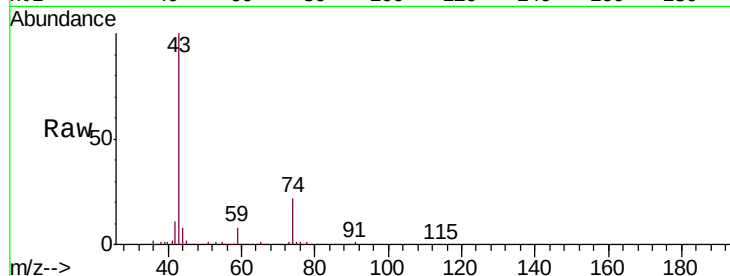




#15  
Methyl Acetate  
Concen: 8.315 ug/L  
RT: 2.47 min Scan# 428  
Delta R.T. -0.01 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

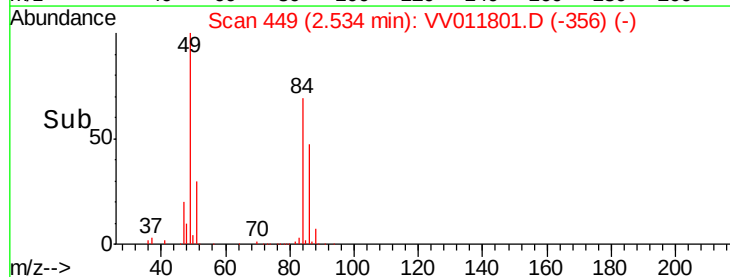
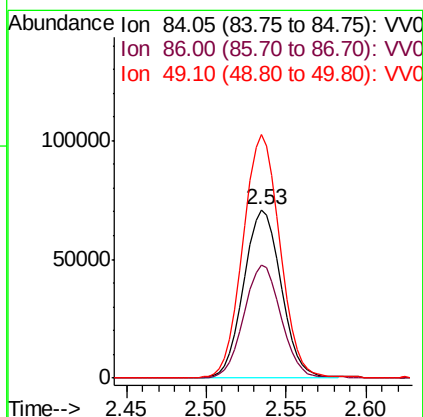
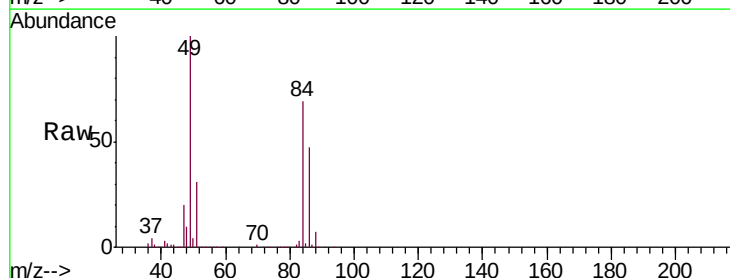
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

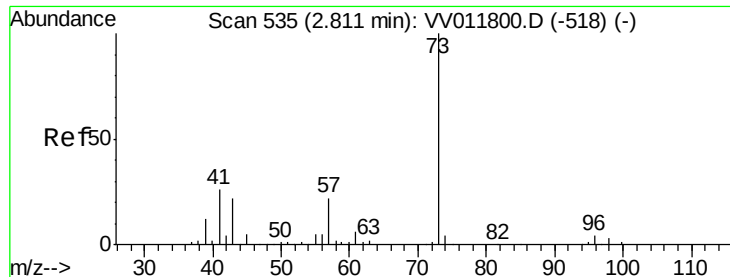
Tgt Ion: 43 Resp: 52231  
Ion Ratio Lower Upper  
43 100  
74 21.2 20.2 30.4



#16  
Methylene chloride  
Concen: 9.191 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

Tgt Ion: 84 Resp: 113543  
Ion Ratio Lower Upper  
84 100  
86 67.3 44.5 82.7  
49 144.5 97.2 180.6



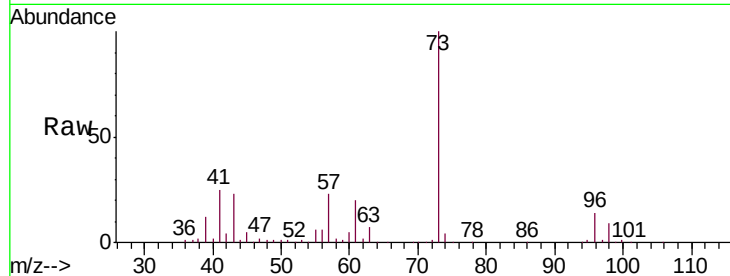


#17

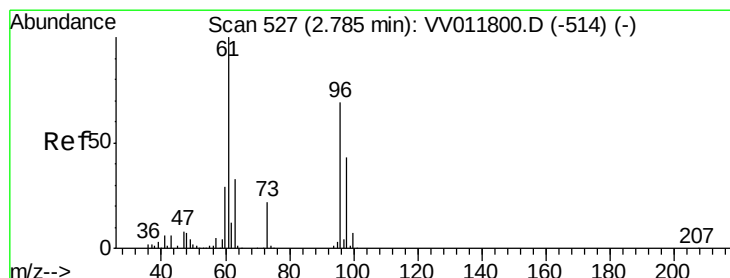
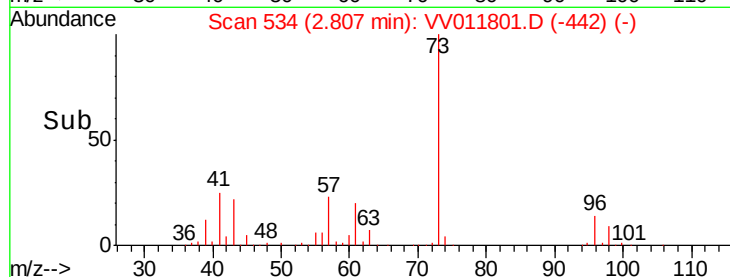
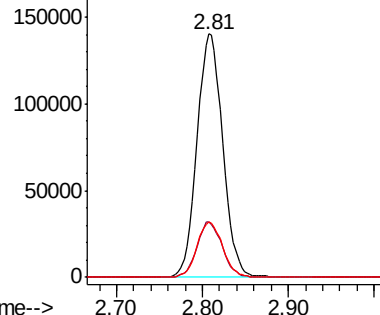
Methyl tert-butyl Ether  
 Concen: 9.189 ug/L  
 RT: 2.81 min Scan# 534  
 Delta R.T. -0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 292265 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 43       | 22.2  | 17.6  | 26.4   |
| 57       | 22.6  | 17.8  | 26.6   |



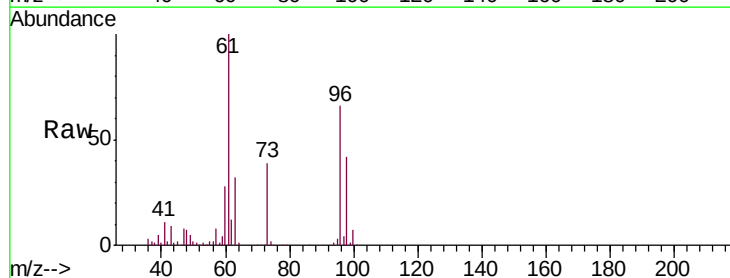
Abundance Ion 73.10 (72.80 to 73.80): VV0  
 Ion 43.05 (42.75 to 43.75): VV0  
 Ion 57.10 (56.80 to 57.80): VV0



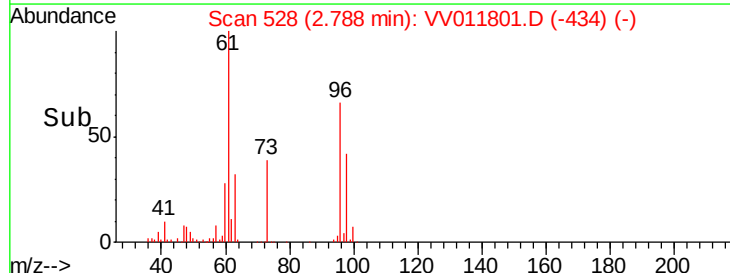
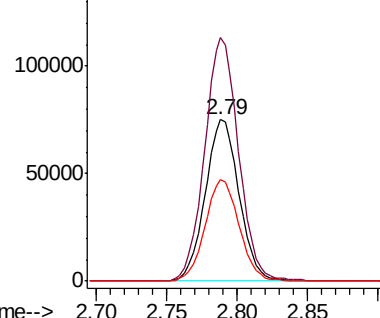
#18

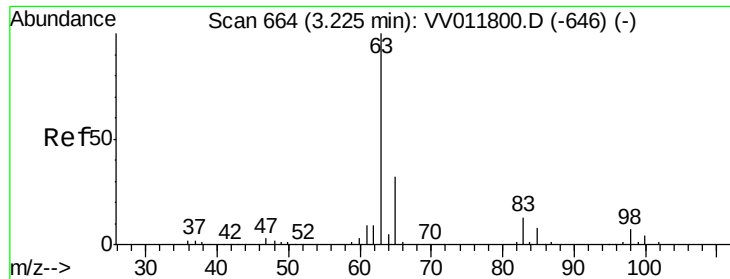
trans-1,2-Dichloroethene  
 Concen: 10.287 ug/L  
 RT: 2.79 min Scan# 528  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 126218 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 151.0 | 102.3 | 189.9  |
| 98       | 62.9  | 44.2  | 82.2   |



Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 97.95 (97.65 to 98.65): VV0

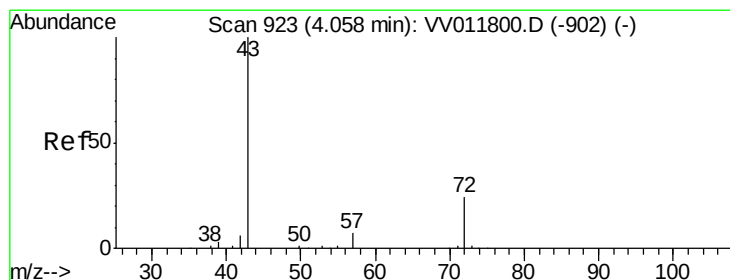
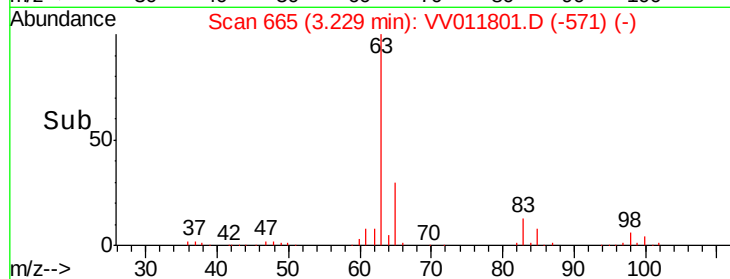
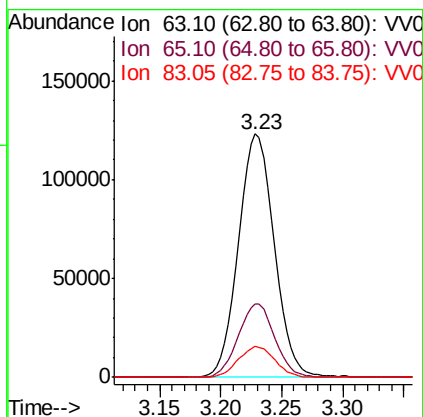
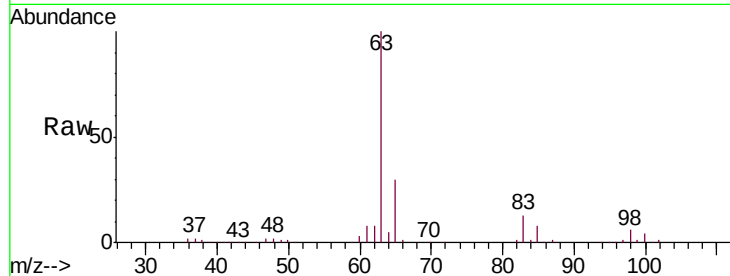




#19  
 1,1-Dichloroethane  
 Concen: 9.854 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

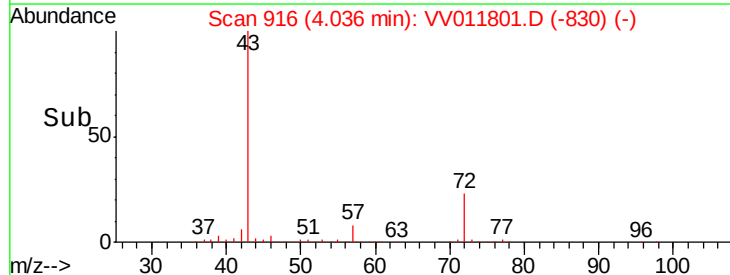
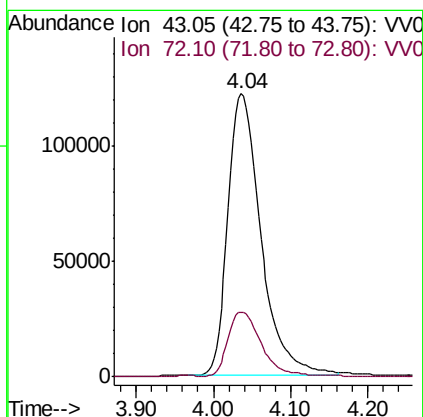
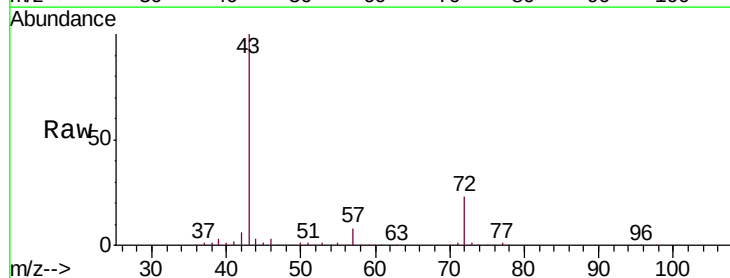
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

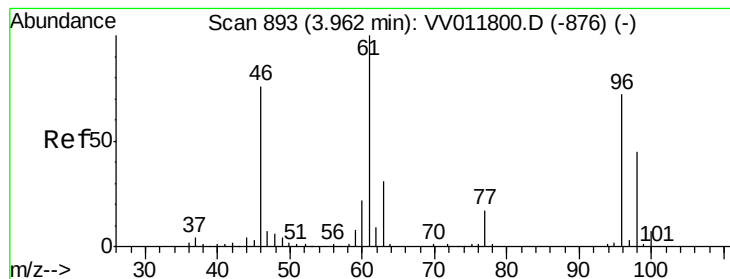
Tgt Ion: 63 Resp: 249923  
 Ion Ratio Lower Upper  
 63 100  
 65 30.0 22.0 41.0  
 83 12.6 8.9 16.5



#21  
 2-Butanone  
 Concen: 94.276 ug/L  
 RT: 4.04 min Scan# 916  
 Delta R.T. -0.02 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 43 Resp: 362970  
 Ion Ratio Lower Upper  
 43 100  
 72 23.0 12.1 36.3



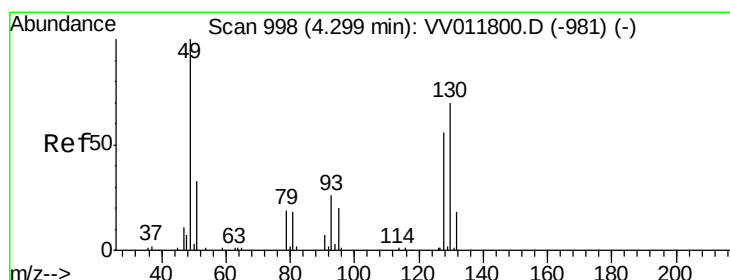
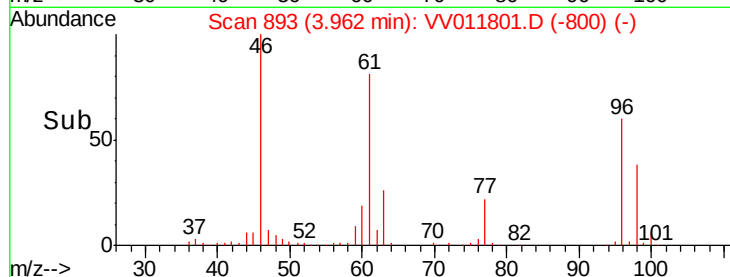
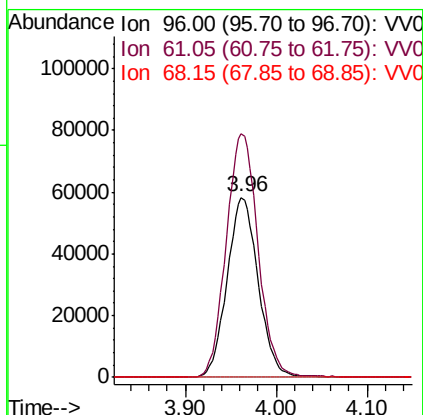
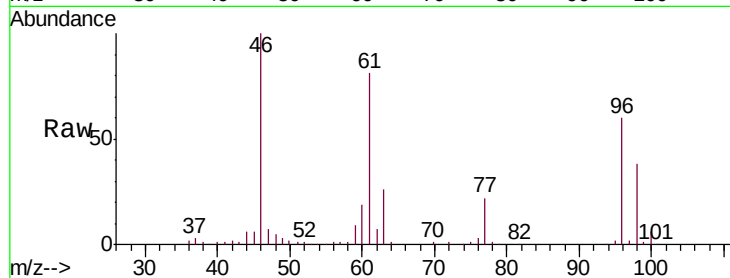


#22

cis-1,2-Dichloroethene  
 Concen: 10.008 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

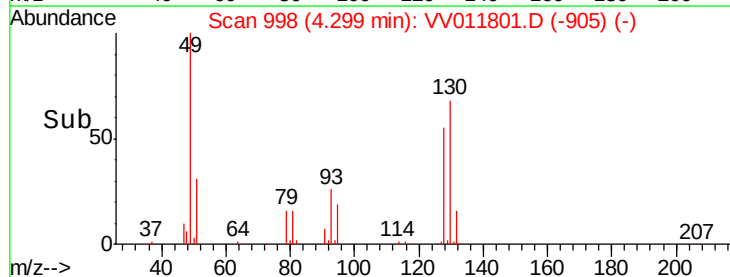
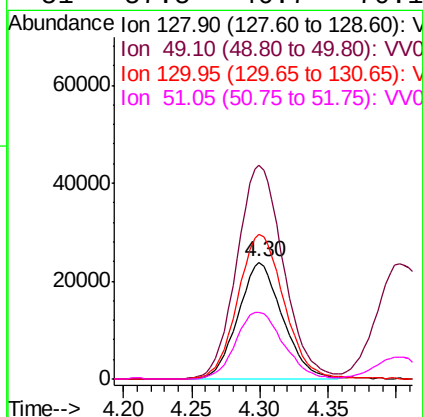
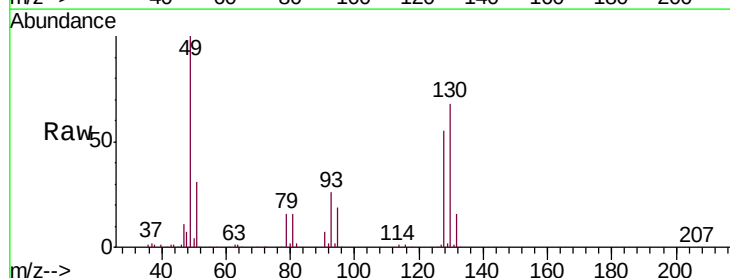
Tgt Ion: 96 Resp: 138844  
 Ion Ratio Lower Upper  
 96 100  
 61 135.5 97.1 180.3  
 68 0.0 0.0 0.0

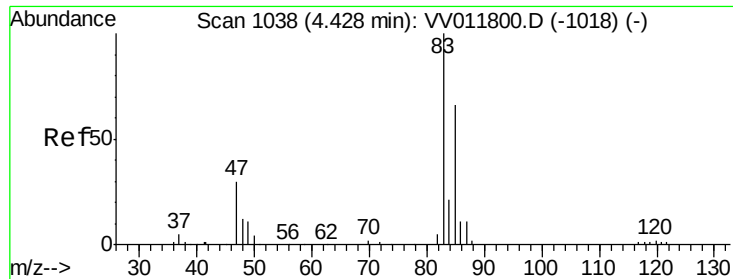


#23

Bromochloromethane  
 Concen: 9.736 ug/L  
 RT: 4.30 min Scan# 998  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 128 Resp: 53880  
 Ion Ratio Lower Upper  
 128 100  
 49 183.2 125.6 233.2  
 130 124.0 87.7 162.9  
 51 57.5 46.7 70.1

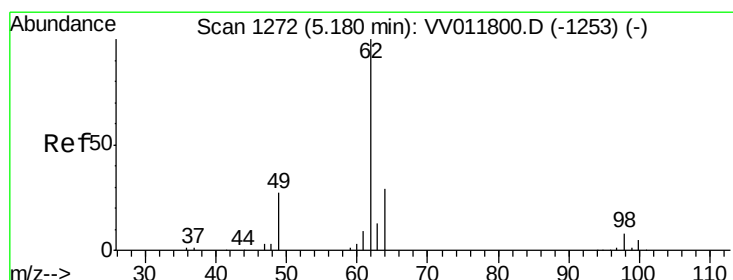
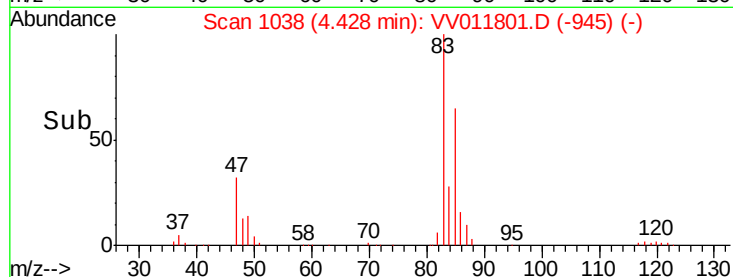
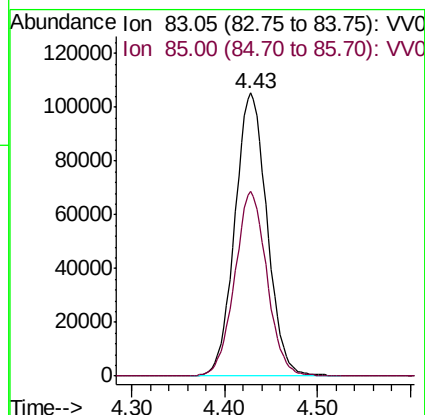
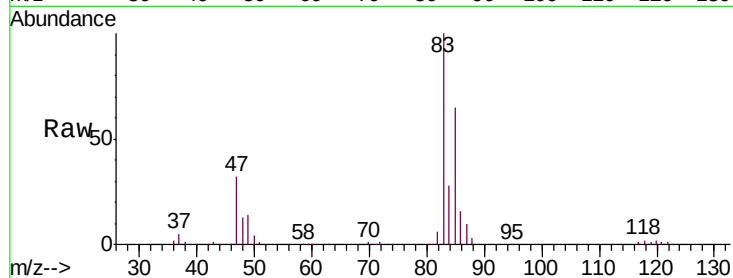




#25  
Chloroform  
Concen: 9.925 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

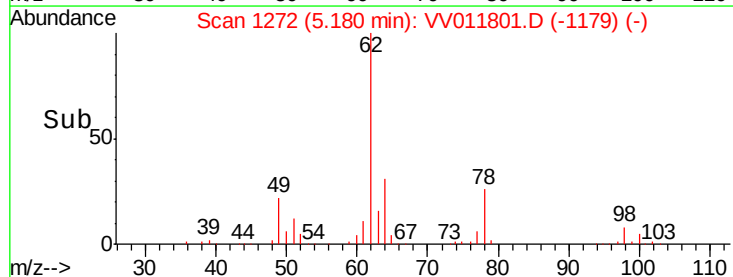
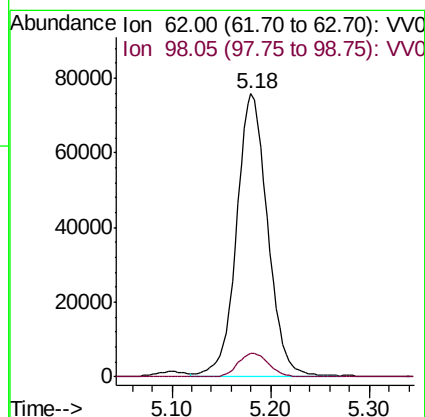
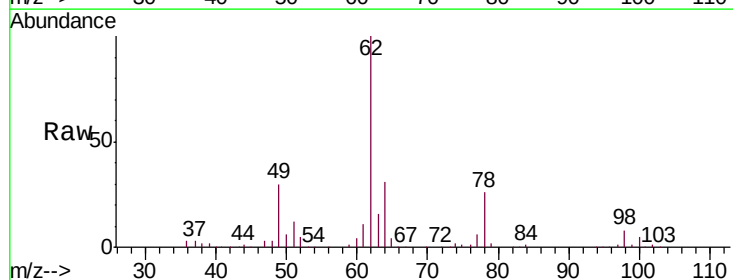
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

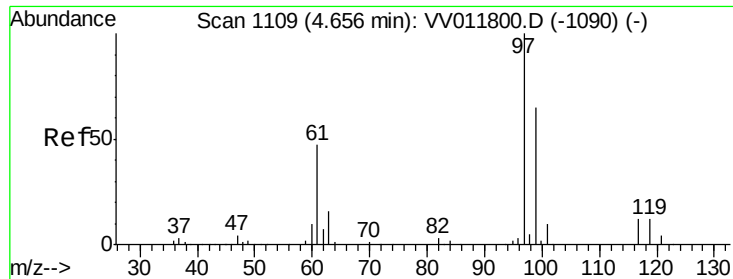
Tgt Ion: 83 Resp: 253384  
Ion Ratio Lower Upper  
83 100  
85 65.5 45.9 85.3



#27  
1,2-Dichloroethane  
Concen: 9.264 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

Tgt Ion: 62 Resp: 164503  
Ion Ratio Lower Upper  
62 100  
98 8.2 6.6 9.8

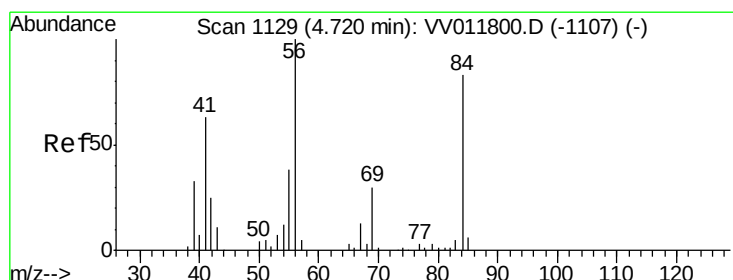
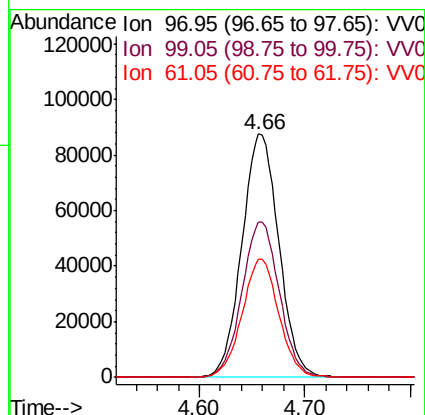
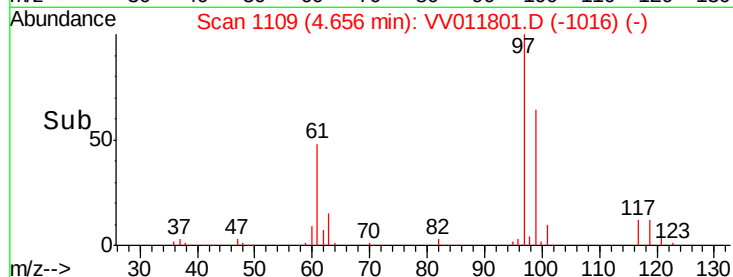
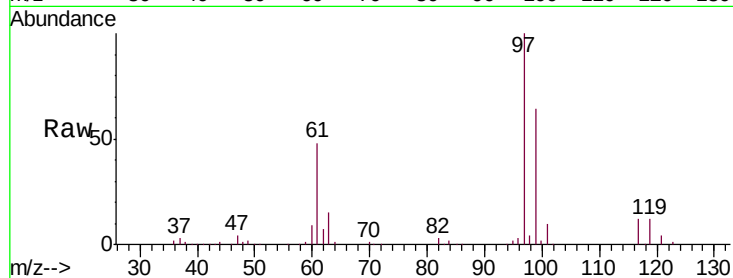




#29  
1,1,1-Trichloroethane  
Concen: 10.132 ug/L  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

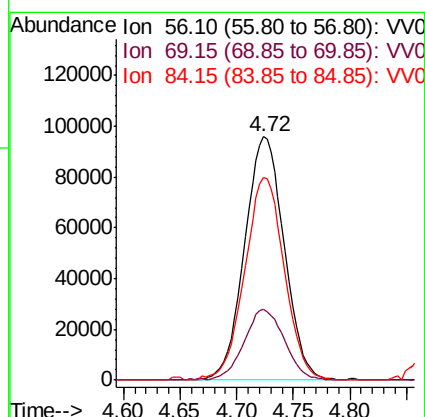
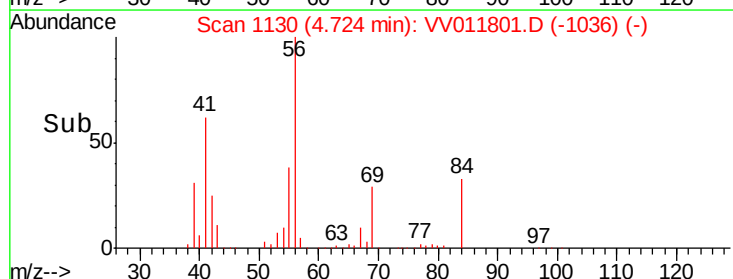
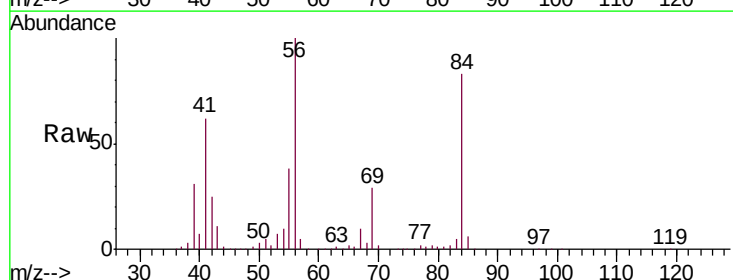
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

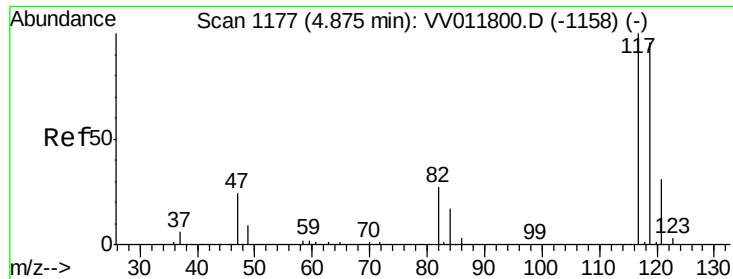
Tgt Ion: 97 Resp: 213349  
Ion Ratio Lower Upper  
97 100  
99 64.5 52.2 78.4  
61 48.5 38.5 57.7



#30  
Cyclohexane  
Concen: 10.480 ug/L  
RT: 4.72 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

Tgt Ion: 56 Resp: 232210  
Ion Ratio Lower Upper  
56 100  
69 29.8 23.5 35.3  
84 83.7 67.6 101.4





#31

Carbon tetrachloride

Concen: 10.760 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

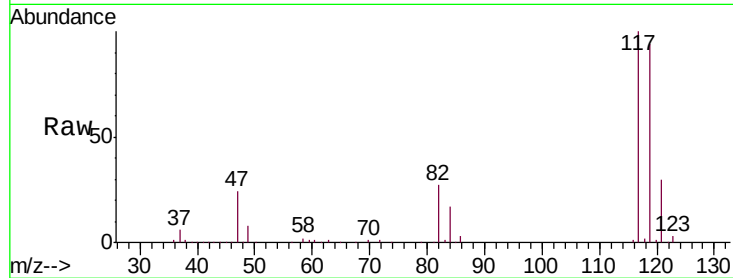
VSTD01031

Tgt Ion:117 Resp: 186139

Ion Ratio Lower Upper

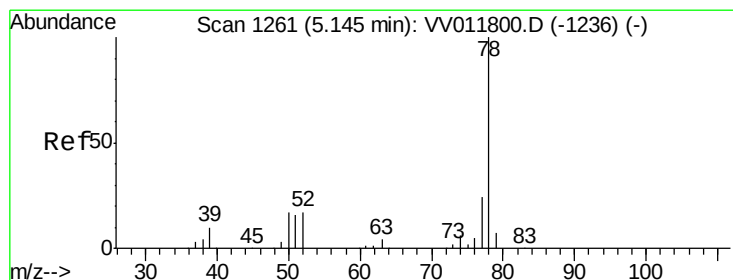
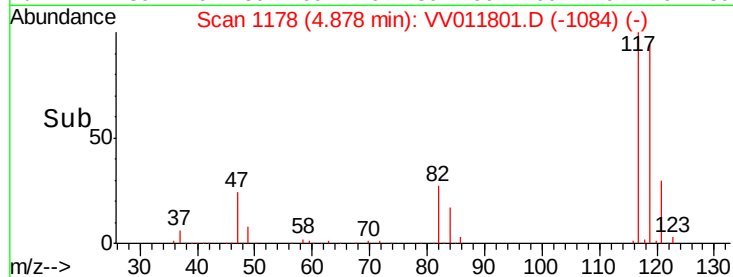
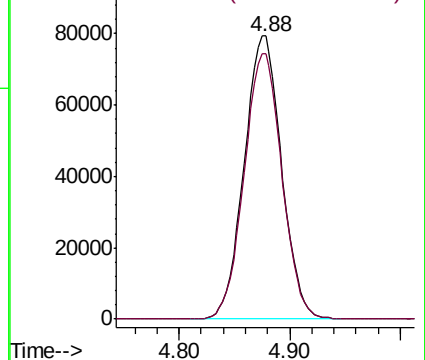
117 100

119 94.7 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 9.917 ug/L

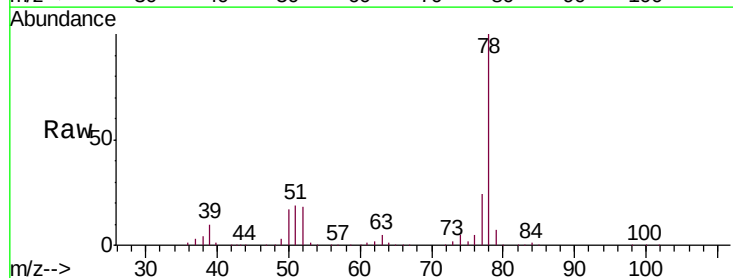
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

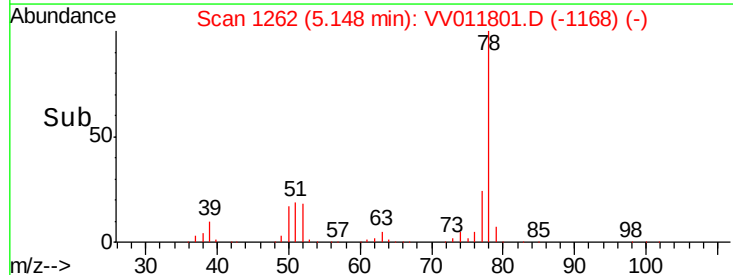
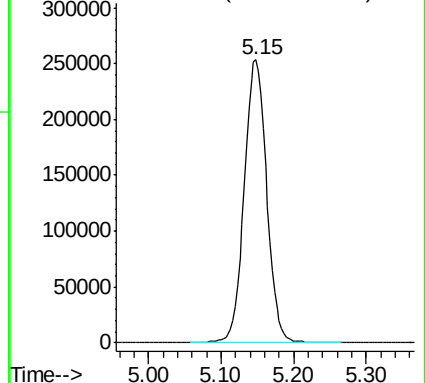
Lab File: VV011801.D

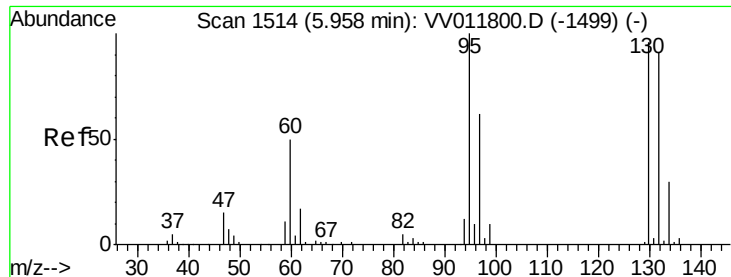
Acq: 02 Jul 2019 11:16

Tgt Ion: 78 Resp: 547506



Abundance Ion 78.10 (77.80 to 78.80): VV0

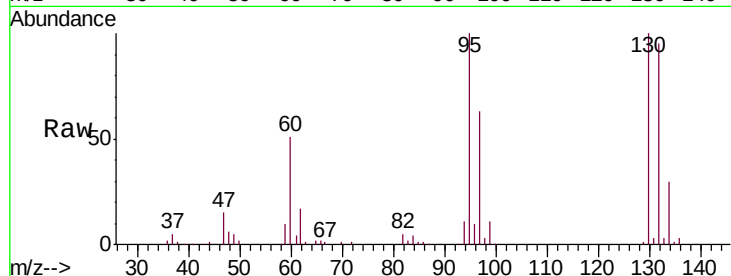




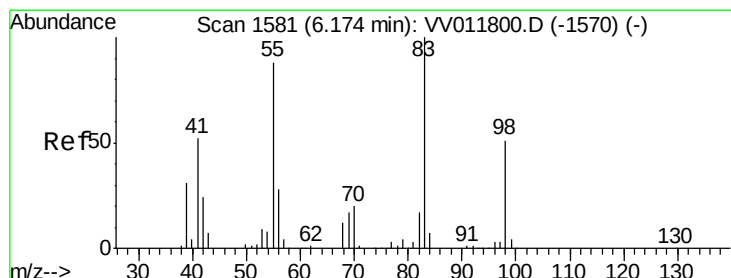
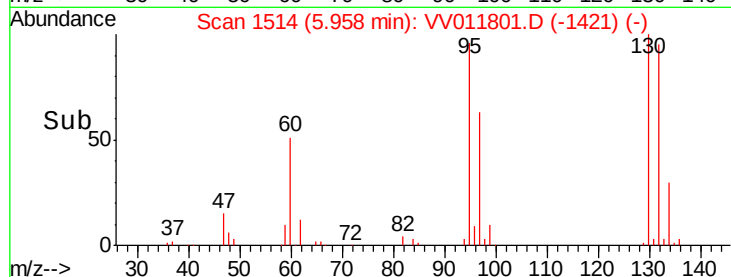
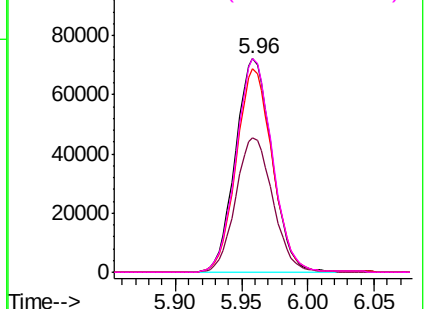
#34  
 Trichloroethene  
 Concen: 9.829 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD01031

Tgt Ion: 95 Resp: 138337  
 Ion Ratio Lower Upper  
 95 100  
 97 63.0 43.7 81.1  
 132 95.3 63.7 118.3  
 130 100.0 67.1 124.7

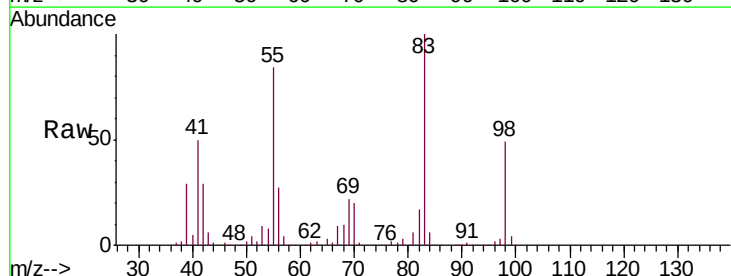


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

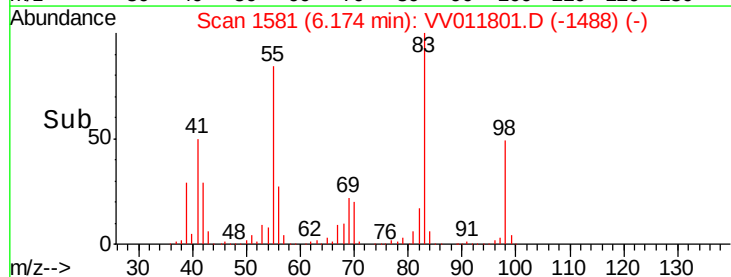
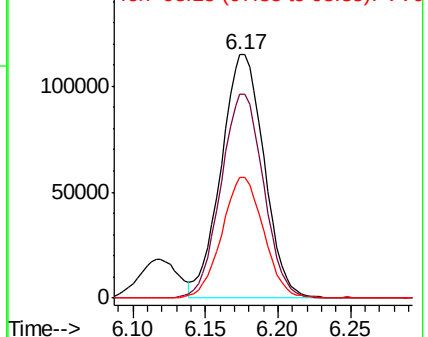


#35  
 Methylcyclohexane  
 Concen: 11.359 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

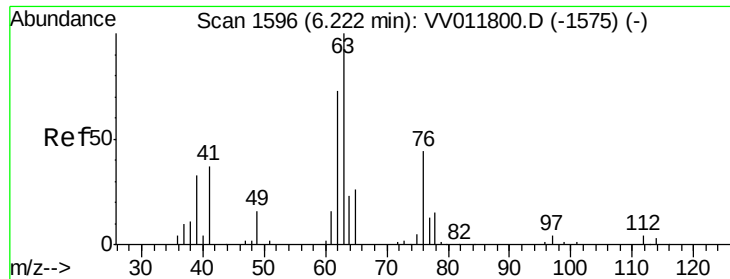
Tgt Ion: 83 Resp: 236254  
 Ion Ratio Lower Upper  
 83 100  
 55 83.2 67.8 101.6  
 98 48.3 39.8 59.8



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



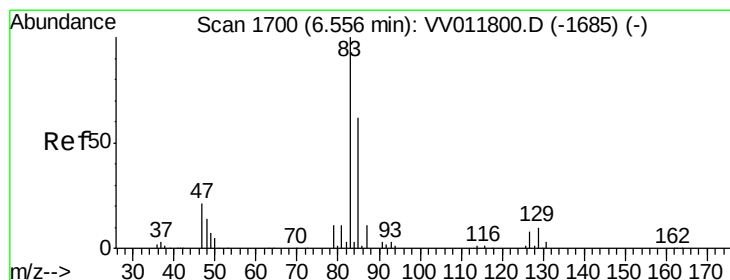
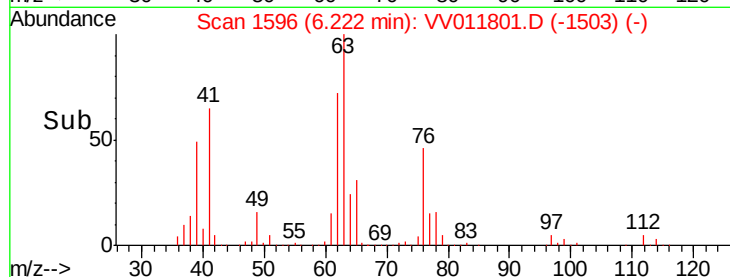
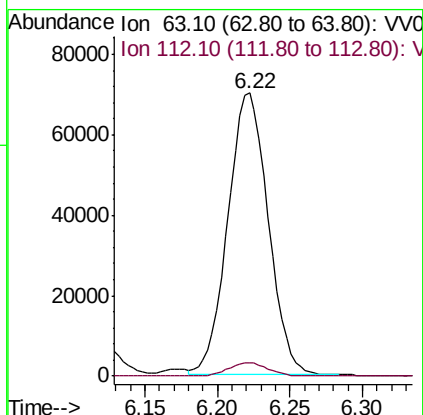
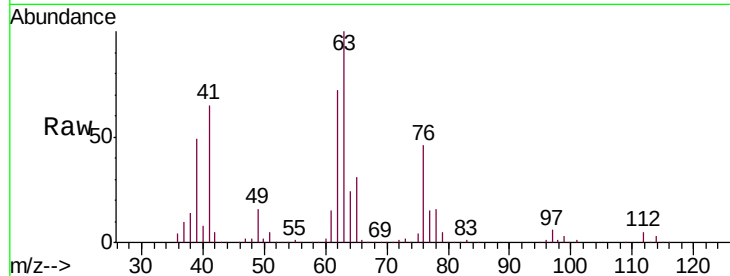




#37  
 1,2-Dichloropropane  
 Concen: 9.213 ug/L  
 RT: 6.22 min Scan# 1596  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

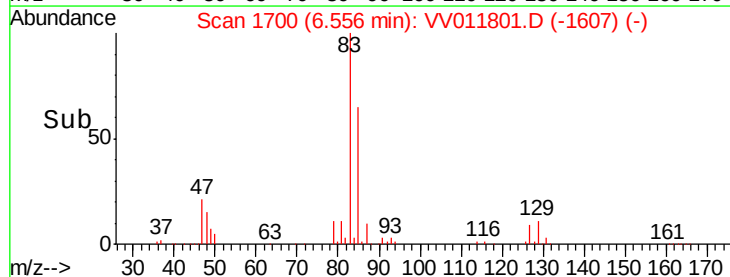
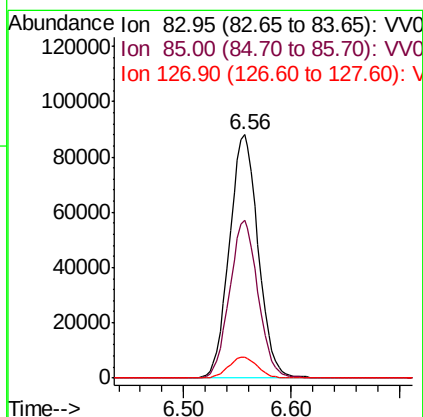
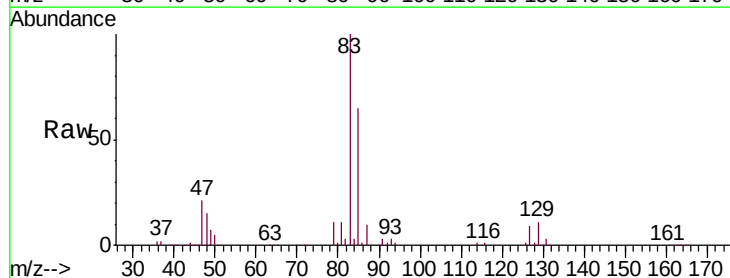
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

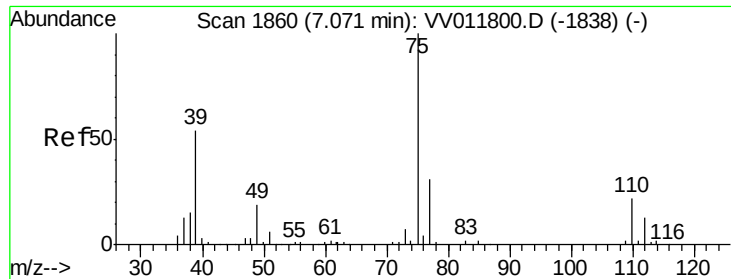
Tgt Ion: 63 Resp: 135587  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.2 4.8



#38  
 Bromodichloromethane  
 Concen: 9.869 ug/L  
 RT: 6.56 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 83 Resp: 164123  
 Ion Ratio Lower Upper  
 83 100  
 85 64.9 43.1 80.1  
 127 8.7 6.2 9.4

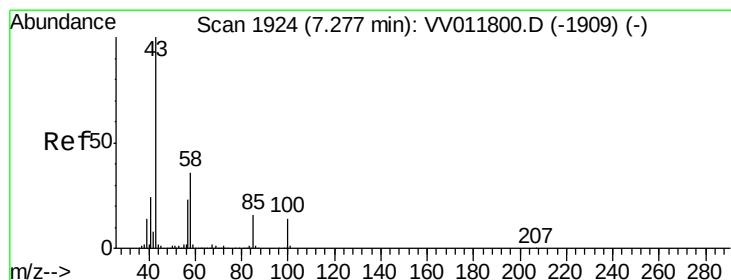
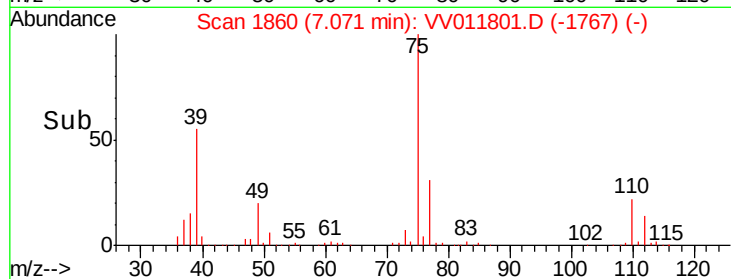
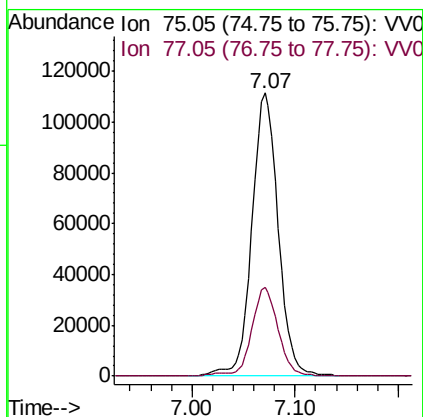
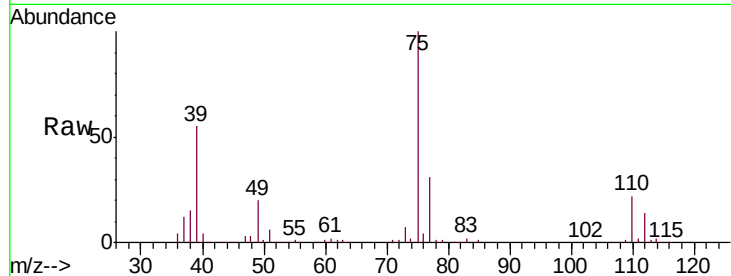




#39  
 cis-1,3-Dichloropropene  
 Concen: 10.574 ug/L  
 RT: 7.07 min Scan# 1860  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

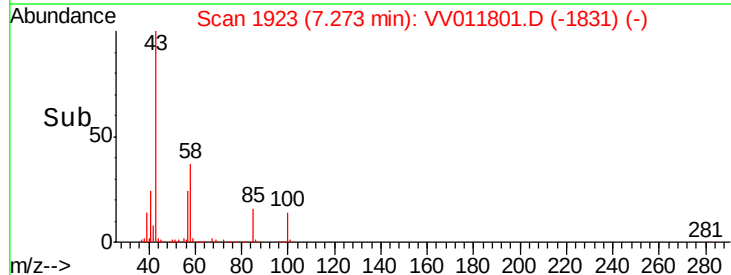
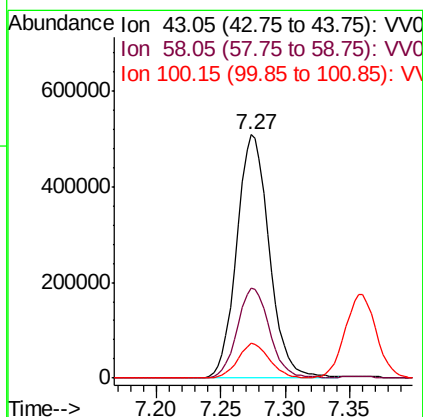
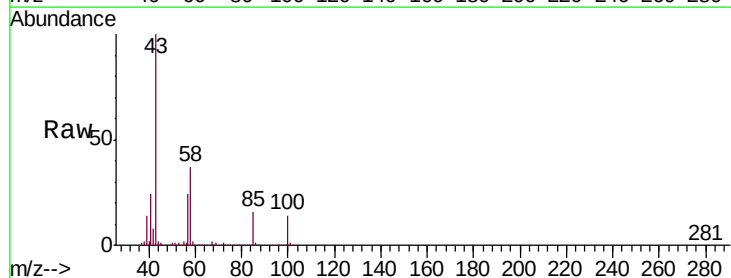
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

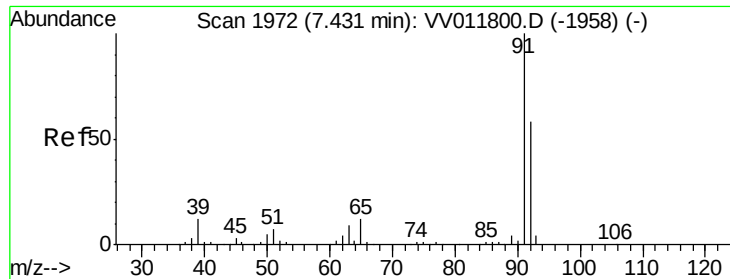
Tgt Ion: 75 Resp: 196848  
 Ion Ratio Lower Upper  
 75 100  
 77 31.4 22.0 40.8



#40  
 4-Methyl-2-pentanone  
 Concen: 87.734 ug/L  
 RT: 7.27 min Scan# 1923  
 Delta R.T. -0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 43 Resp: 894144  
 Ion Ratio Lower Upper  
 43 100  
 58 36.7 28.7 43.1  
 100 13.8 10.7 16.1





#42

Toluene

Concen: 10.284 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

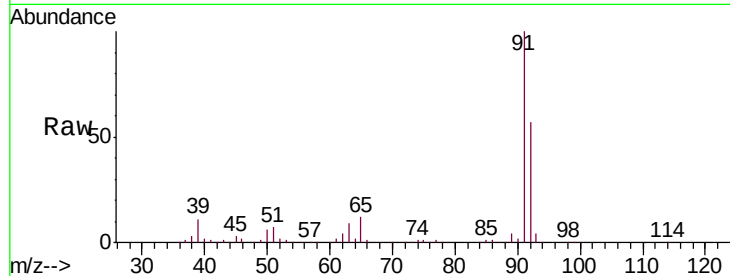
VSTD01031

Tgt Ion: 91 Resp: 592769

Ion Ratio Lower Upper

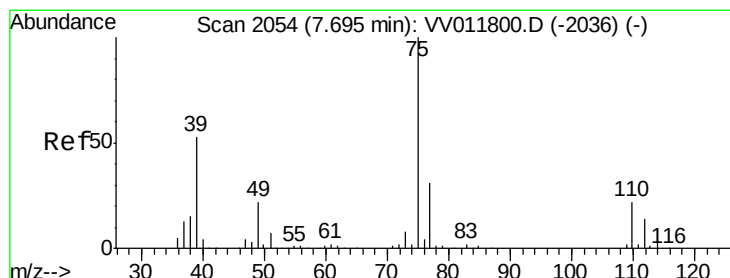
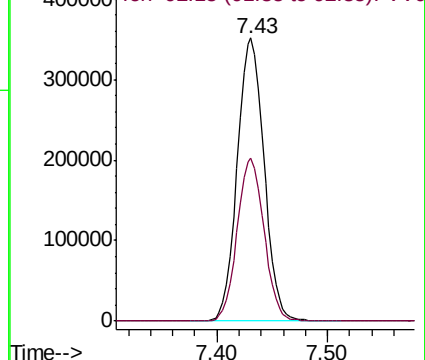
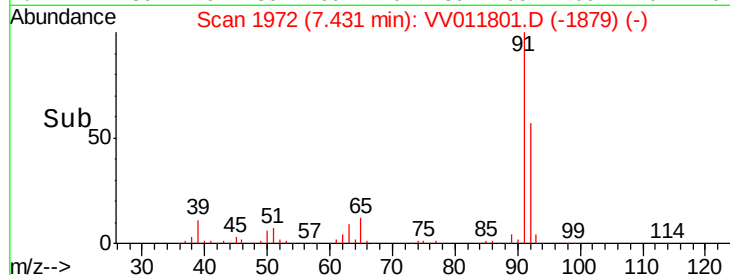
91 100

92 57.4 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV011801.D (-1879) (-)

Ion 92.15 (91.85 to 92.85): VV011801.D (-1879) (-)



#44

trans-1,3-Dichloropropene

Concen: 10.964 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011801.D

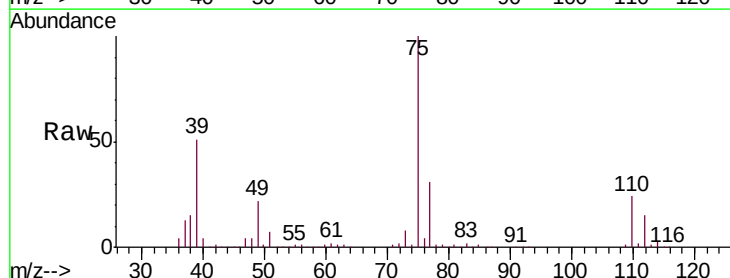
Acq: 02 Jul 2019 11:16

Tgt Ion: 75 Resp: 156321

Ion Ratio Lower Upper

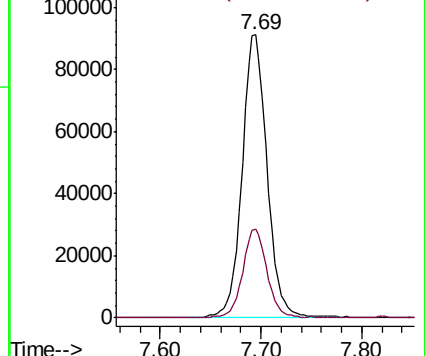
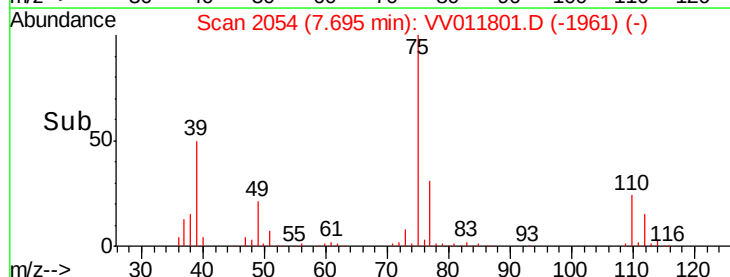
75 100

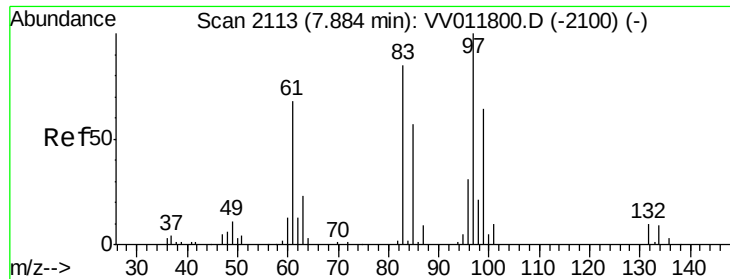
77 31.5 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VV011801.D (-1961) (-)

Ion 77.05 (76.75 to 77.75): VV011801.D (-1961) (-)

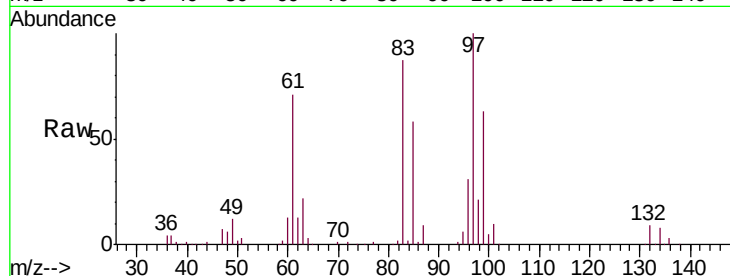




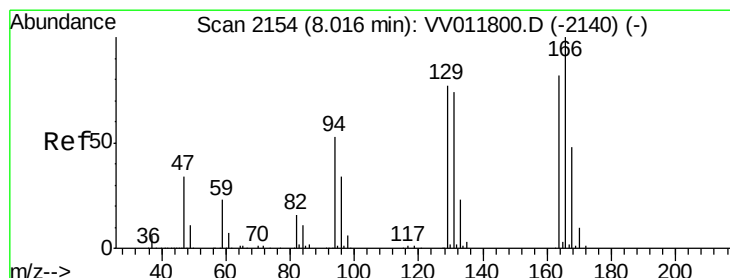
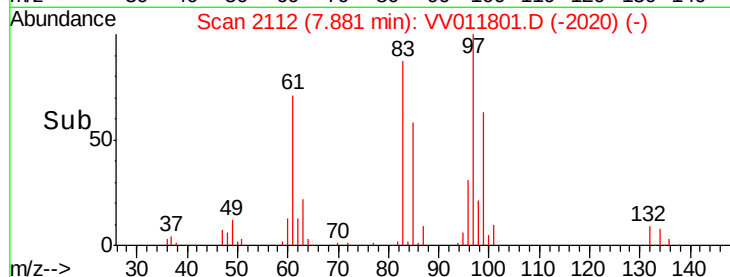
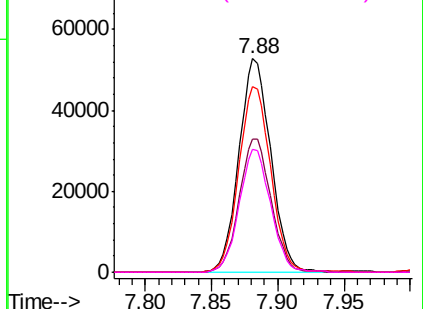
#45  
 1,1,2-Trichloroethane  
 Concen: 9.109 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

Tgt Ion: 97 Resp: 88340  
 Ion Ratio Lower Upper  
 97 100  
 99 62.5 44.9 83.5  
 83 86.9 59.6 110.8  
 85 57.6 40.1 74.5

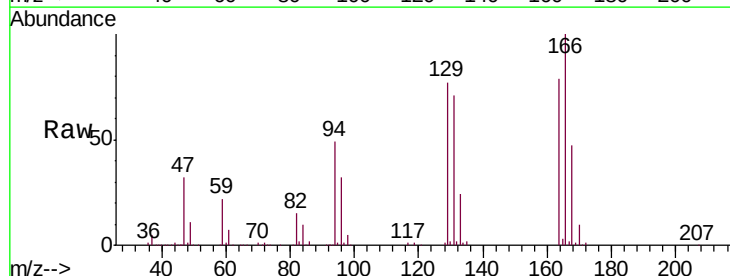


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 82.95 (82.65 to 83.65): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

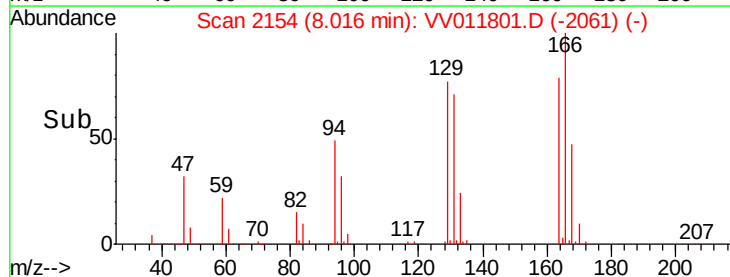
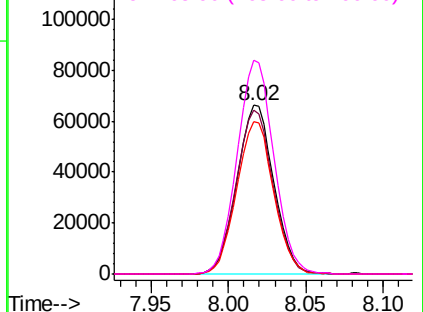


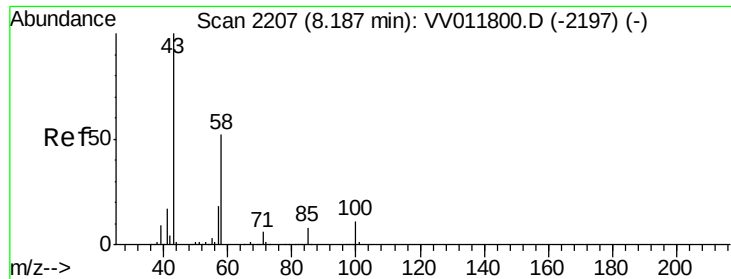
#47  
 Tetrachloroethene  
 Concen: 10.600 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 164 Resp: 109802  
 Ion Ratio Lower Upper  
 164 100  
 129 96.8 65.7 121.9  
 131 89.9 63.2 117.4  
 166 126.5 85.8 159.3



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

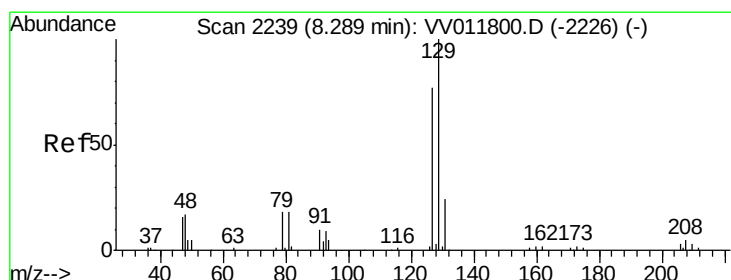
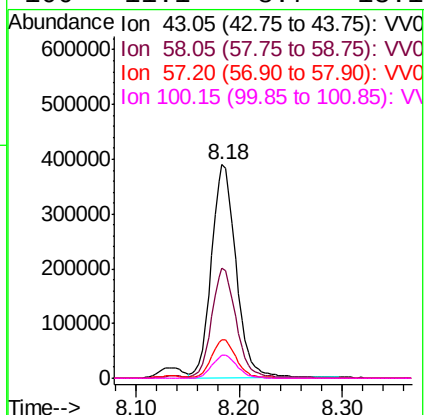
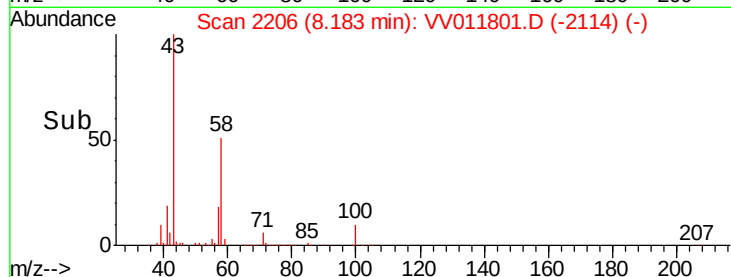
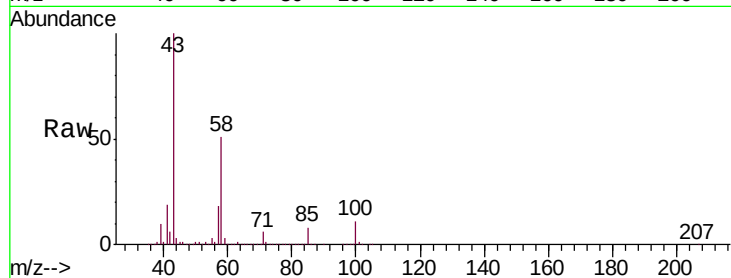




#48  
2-Hexanone  
Concen: 90.004 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. -0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

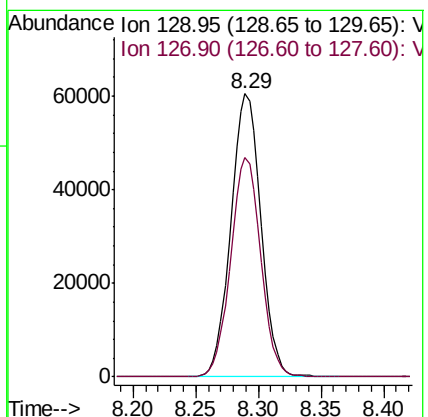
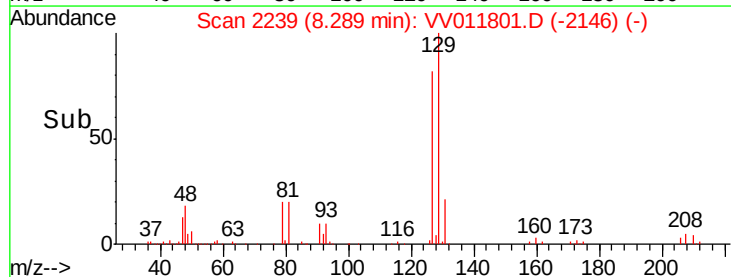
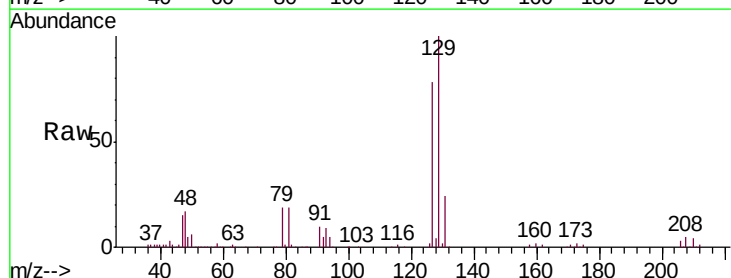
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

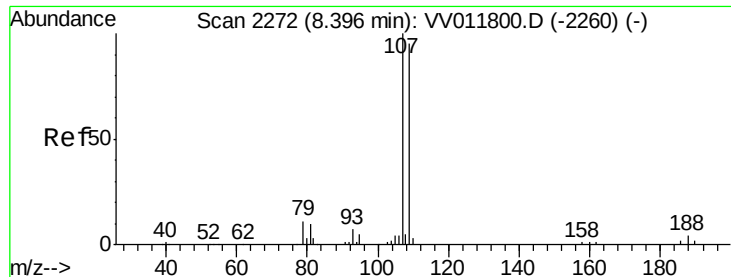
Tgt Ion: 43 Resp: 644911  
Ion Ratio Lower Upper  
43 100  
58 51.1 40.9 61.3  
57 18.2 14.3 21.5  
100 11.1 8.7 13.1



#49  
Dibromochloromethane  
Concen: 10.272 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

Tgt Ion: 129 Resp: 100668  
Ion Ratio Lower Upper  
129 100  
127 77.7 53.9 100.1

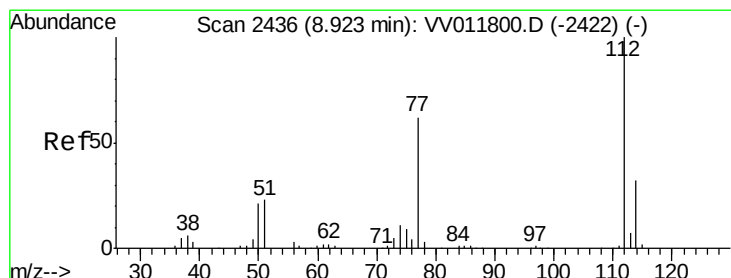
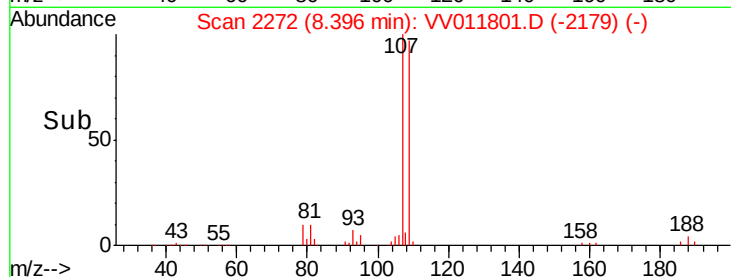
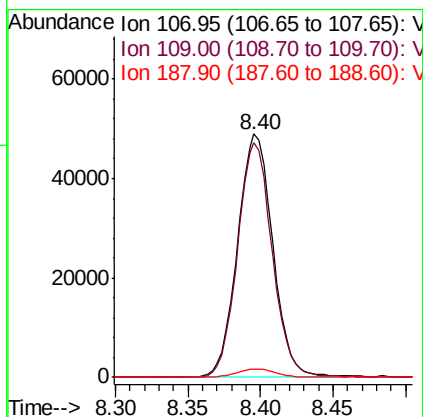
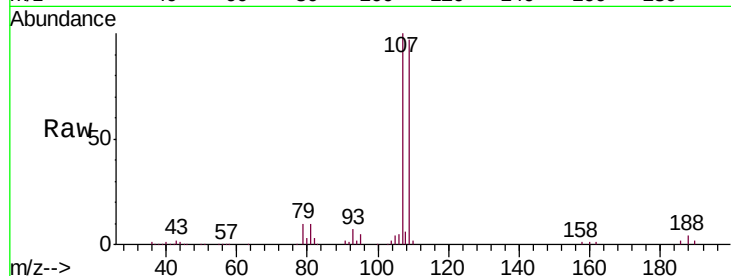




#50  
1,2-Dibromoethane  
Concen: 9.420 ug/L  
RT: 8.40 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

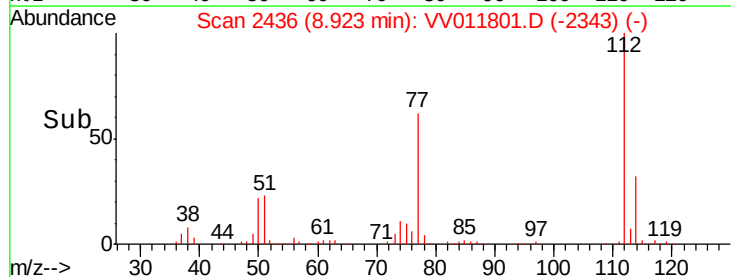
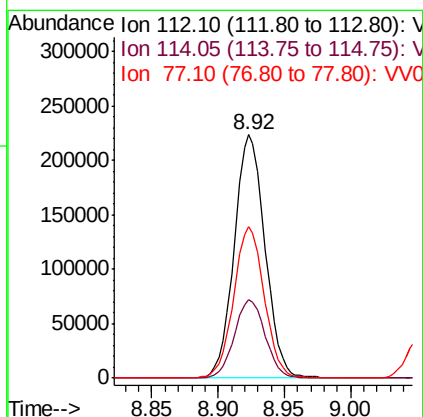
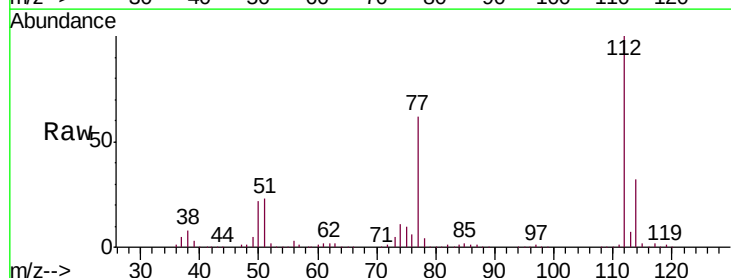
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01031

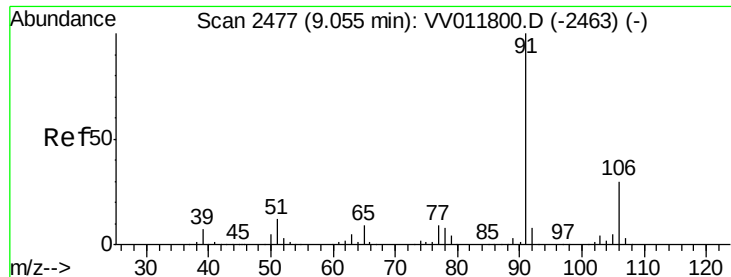
Tgt Ion:107 Resp: 82723  
Ion Ratio Lower Upper  
107 100  
109 96.6 66.8 124.2  
188 3.6 3.0 4.6



#51  
Chlorobenzene  
Concen: 10.135 ug/L  
RT: 8.92 min Scan# 2436  
Delta R.T. 0.00 min  
Lab File: VV011801.D  
Acq: 02 Jul 2019 11:16

Tgt Ion:112 Resp: 359945  
Ion Ratio Lower Upper  
112 100  
114 32.2 22.7 42.3  
77 62.4 50.3 75.5





#52

Ethylbenzene

Concen: 10.828 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

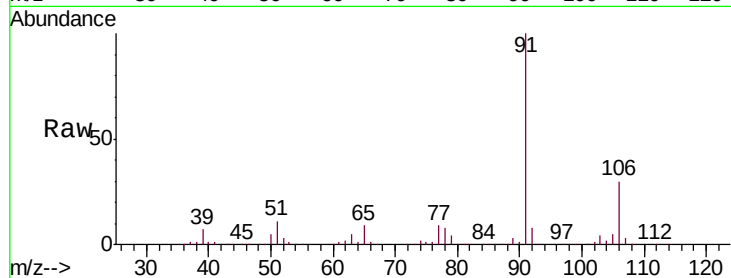
VSTD01031

Tgt Ion: 91 Resp: 661900

Ion Ratio Lower Upper

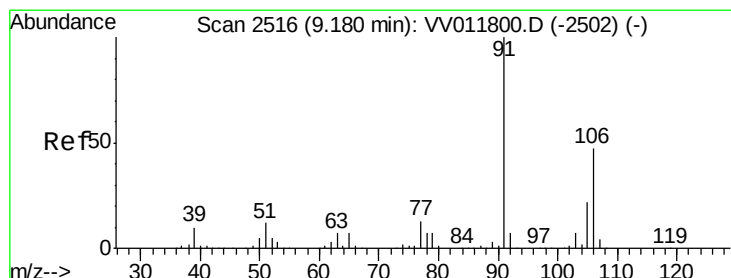
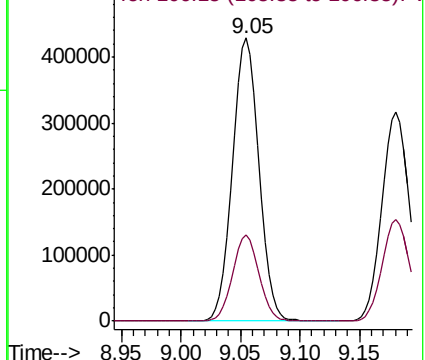
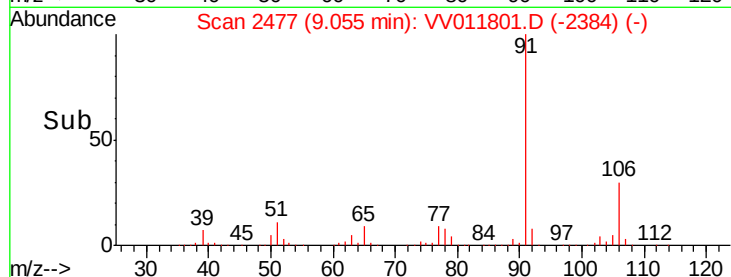
91 100

106 30.4 20.8 38.6



Abundance Ion 91.15 (90.85 to 91.85): VV011801.D (-2384) (-)

Ion 106.15 (105.85 to 106.85): VV011801.D (-2384) (-)



#53

m,p-xylene

Concen: 10.966 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011801.D

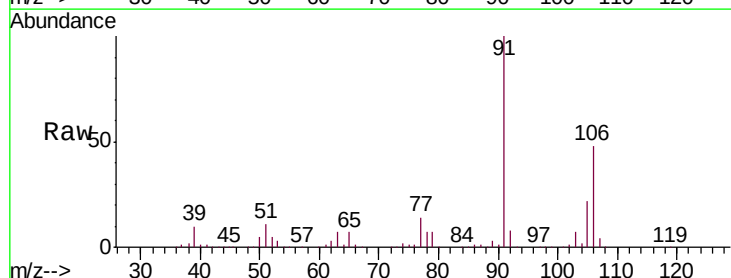
Acq: 02 Jul 2019 11:16

Tgt Ion: 106 Resp: 245433

Ion Ratio Lower Upper

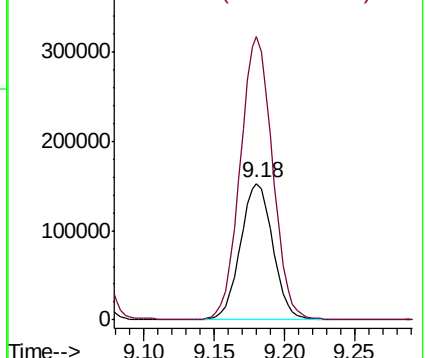
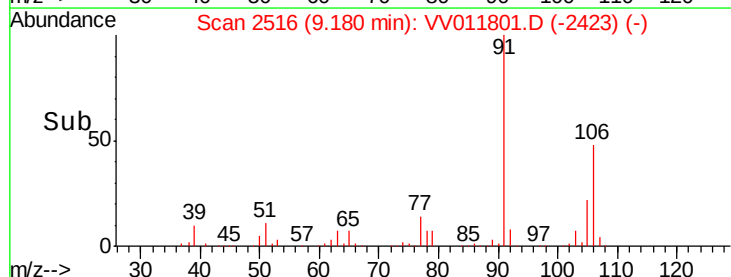
106 100

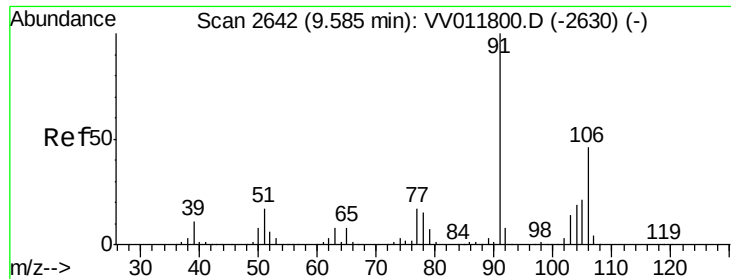
91 207.0 148.2 275.2



Abundance Ion 106.15 (105.85 to 106.85): VV011801.D (-2423) (-)

Ion 91.15 (90.85 to 91.85): VV011801.D (-2423) (-)





#54

o-xylene

Concen: 10.625 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

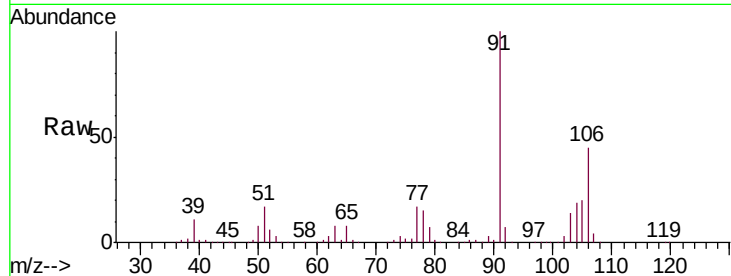
VSTD01031

Tgt Ion:106 Resp: 237020

Ion Ratio Lower Upper

106 100

91 221.5 153.2 284.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

400000

300000

200000

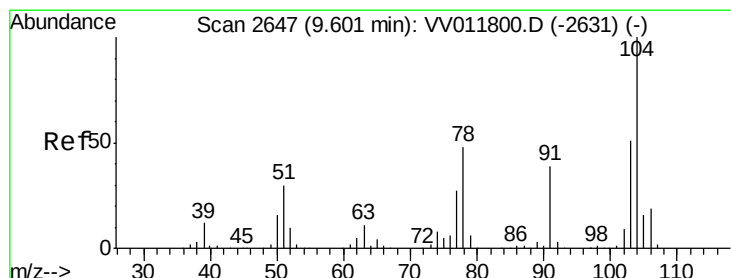
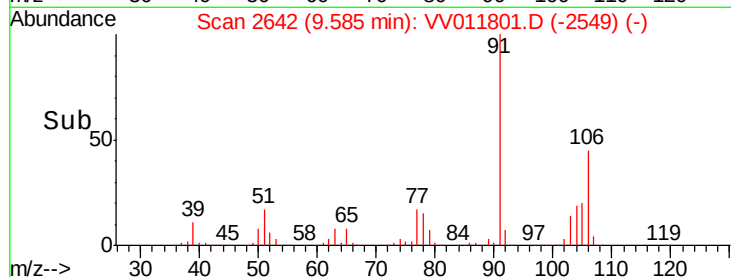
100000

0

9.59

9.55 9.60 9.65

Time-->



#55

Styrene

Concen: 11.001 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV011801.D

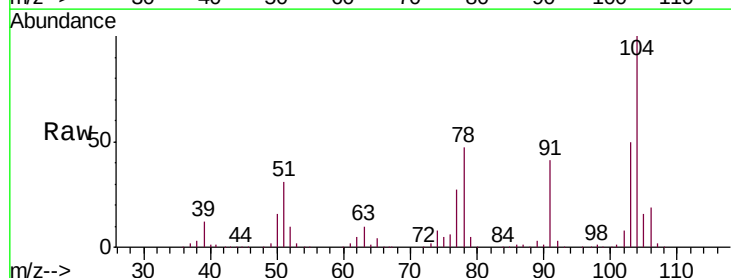
Acq: 02 Jul 2019 11:16

Tgt Ion:104 Resp: 407649

Ion Ratio Lower Upper

104 100

78 46.6 33.4 62.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

300000

250000

200000

150000

100000

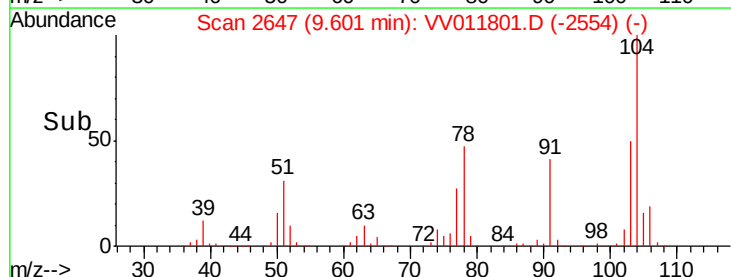
50000

0

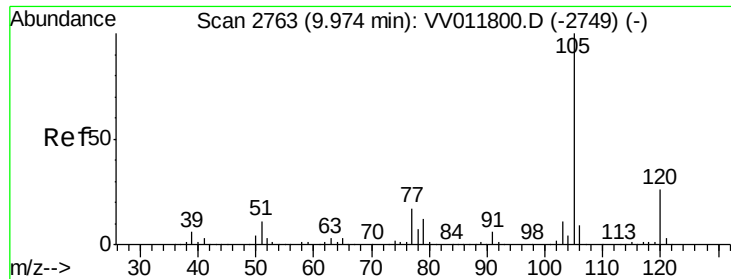
9.60

9.55 9.60 9.65

Time-->







#56

Isopropylbenzene

Concen: 11.139 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01031

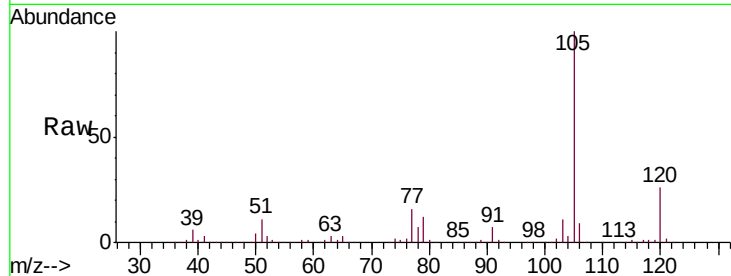
Tgt Ion: 105 Resp: 641548

Ion Ratio Lower Upper

105 100

120 26.1 21.2 31.8

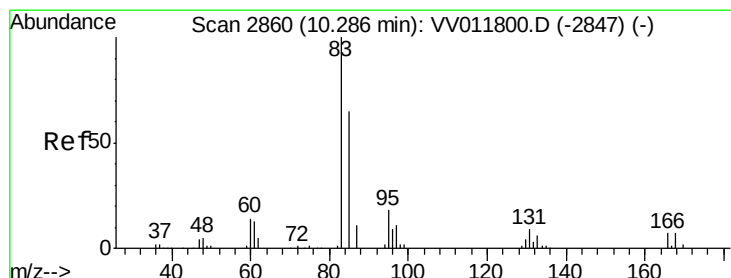
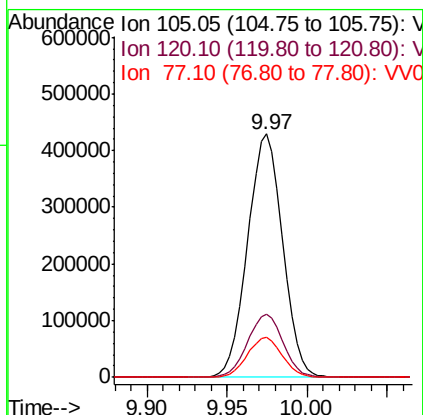
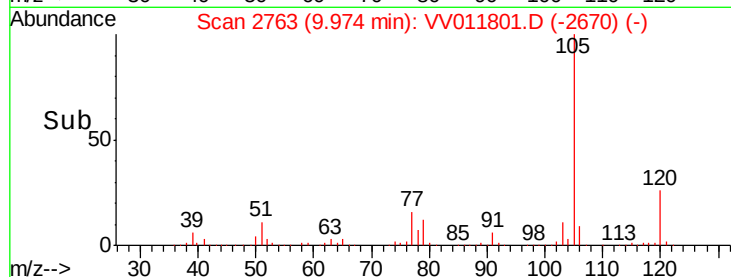
77 16.4 13.5 20.3



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: 9.145 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

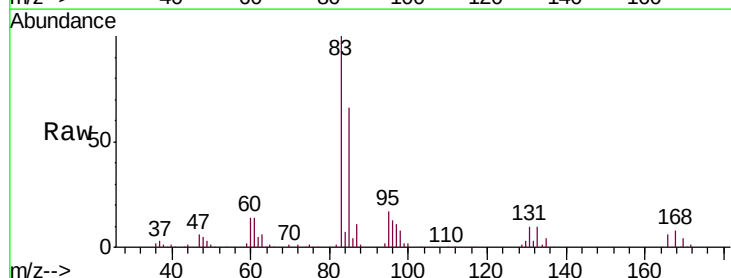
Tgt Ion: 83 Resp: 108261

Ion Ratio Lower Upper

83 100

85 66.3 46.1 85.7

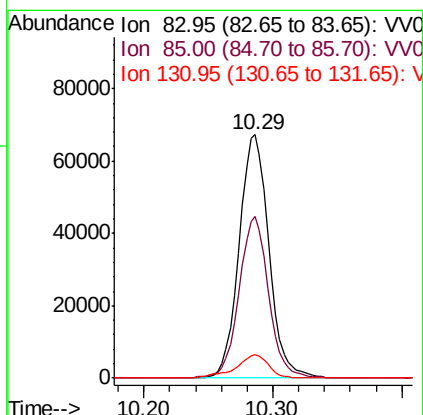
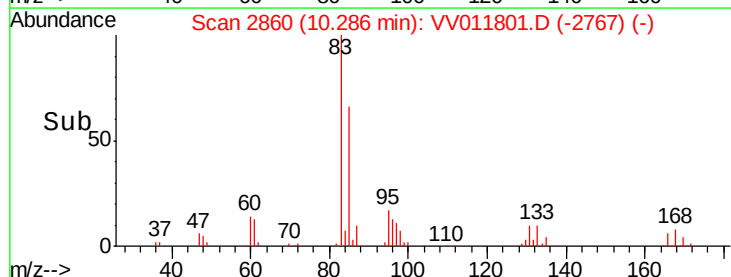
131 9.6 7.8 11.6

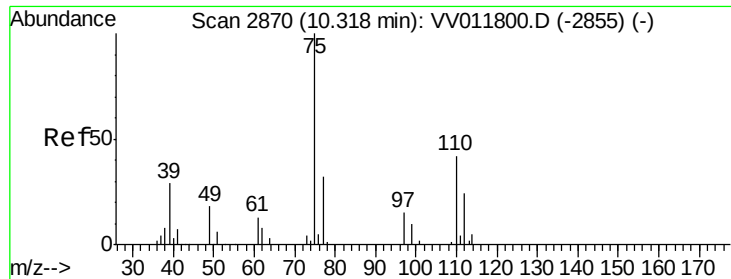


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 8.896 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

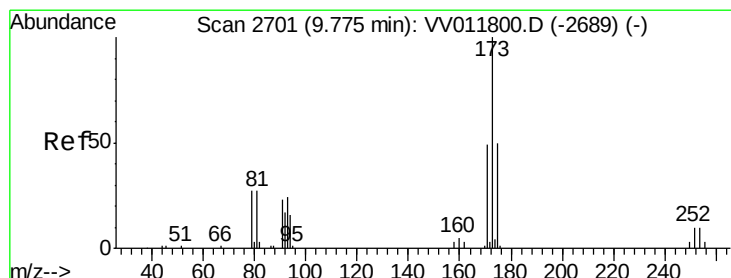
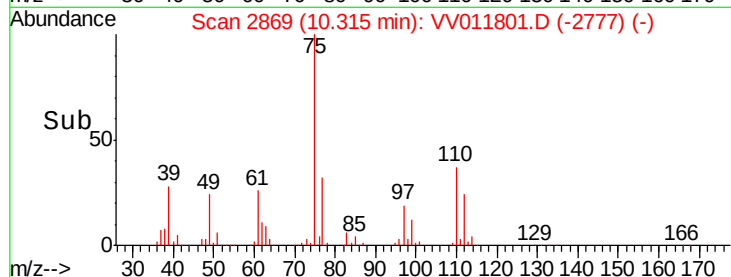
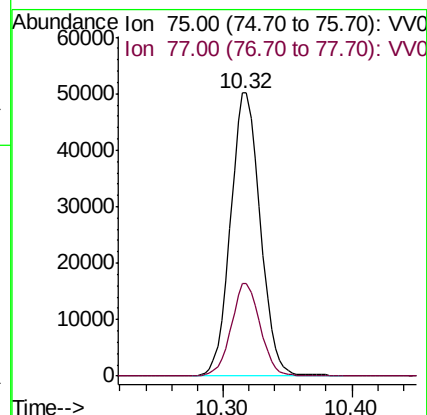
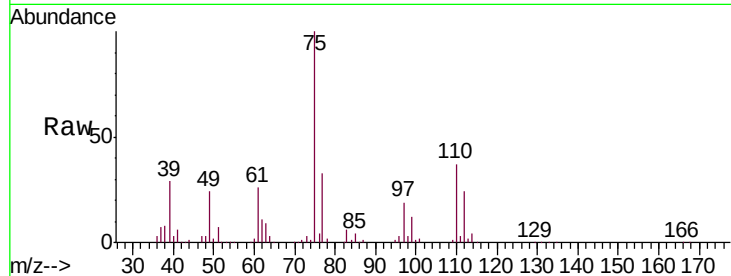
VSTD01031

Tgt Ion: 75 Resp: 80167

Ion Ratio Lower Upper

75 100

77 31.1 25.4 38.2



#61

Bromoform

Concen: 9.318 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

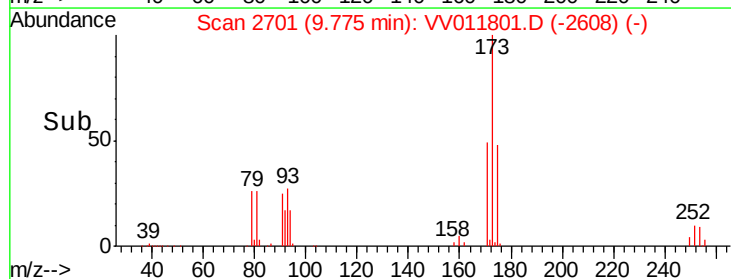
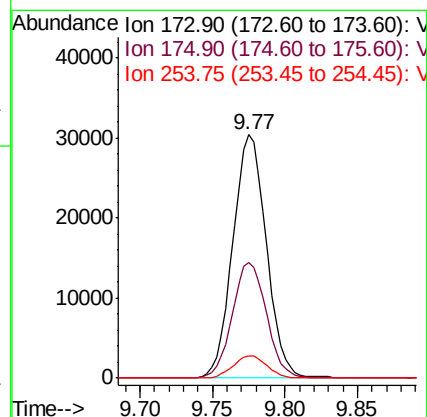
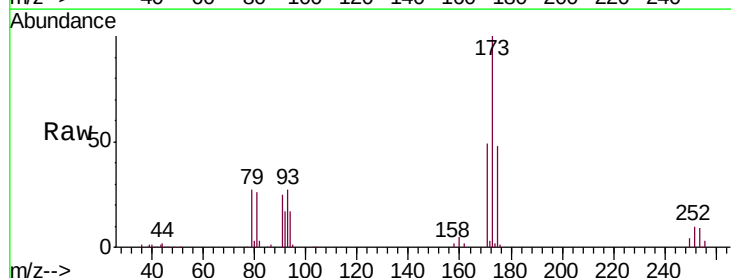
Tgt Ion: 173 Resp: 48840

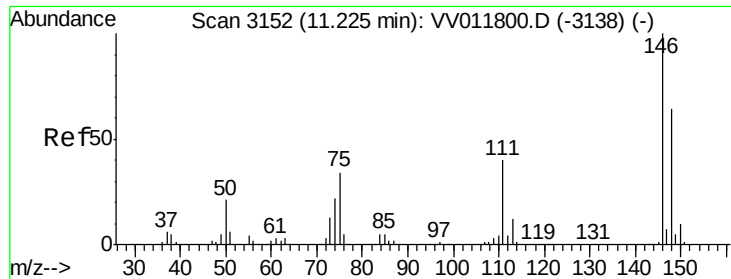
Ion Ratio Lower Upper

173 100

175 48.3 38.1 57.1

254 9.2 7.9 11.9





#62

1,3-Dichlorobenzene

Concen: 10.194 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01031

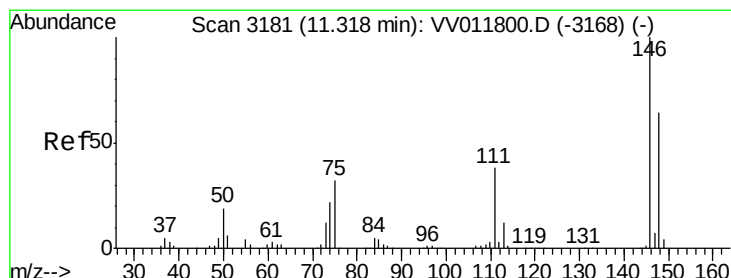
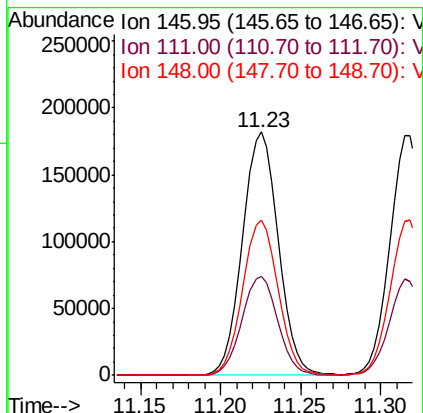
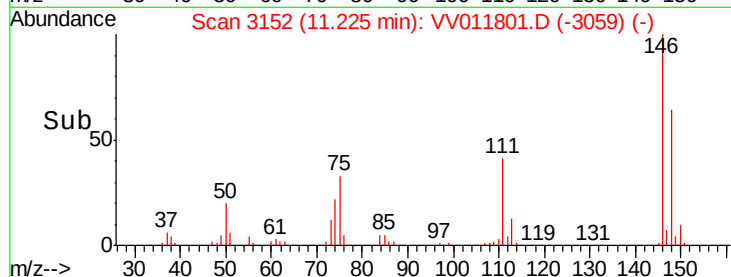
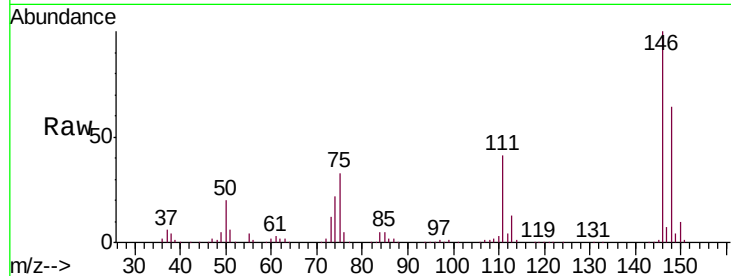
Tgt Ion:146 Resp: 277316

Ion Ratio Lower Upper

146 100

111 40.7 28.1 52.1

148 63.7 44.7 83.1



#63

1,4-Dichlorobenzene

Concen: 9.974 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

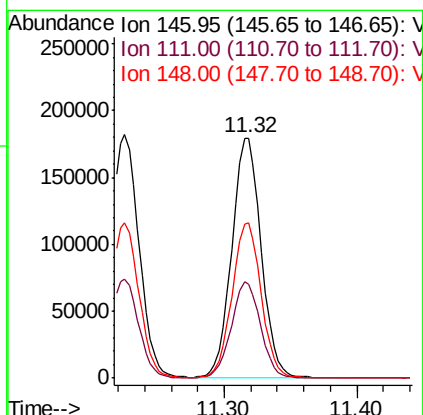
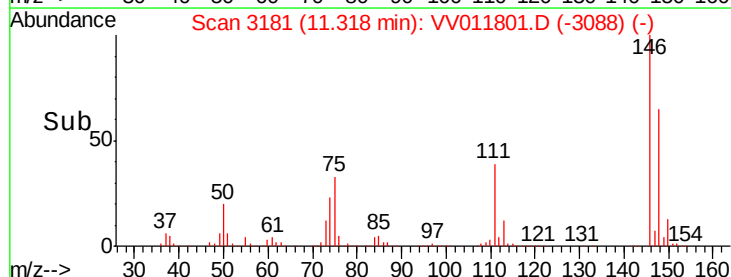
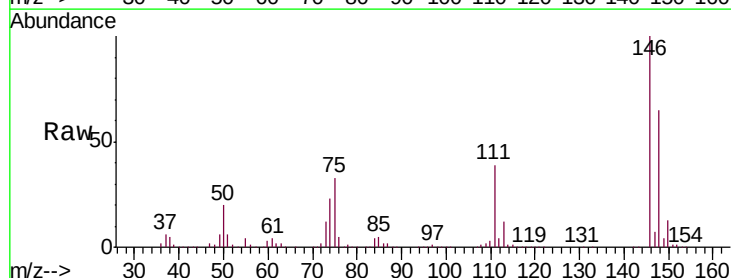
Tgt Ion:146 Resp: 275736

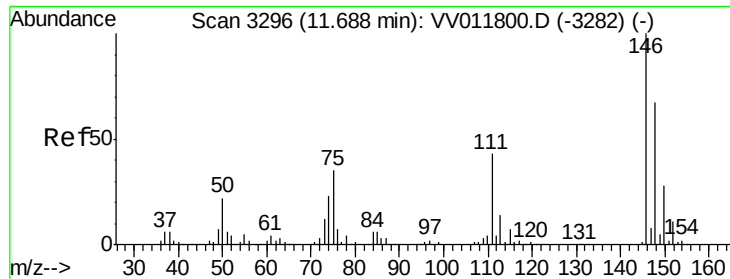
Ion Ratio Lower Upper

146 100

111 39.2 27.2 50.4

148 64.7 45.1 83.7

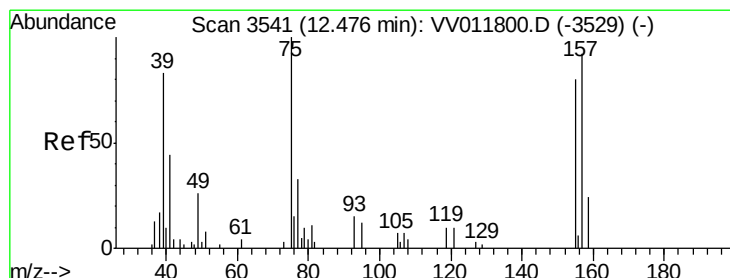
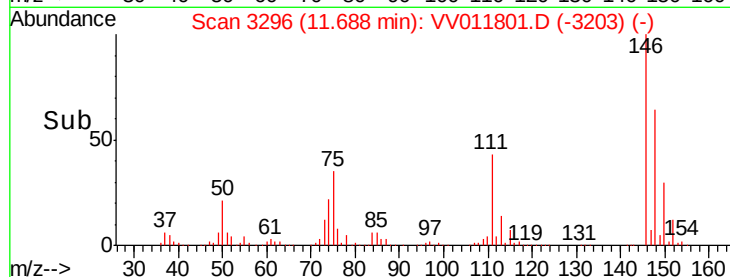
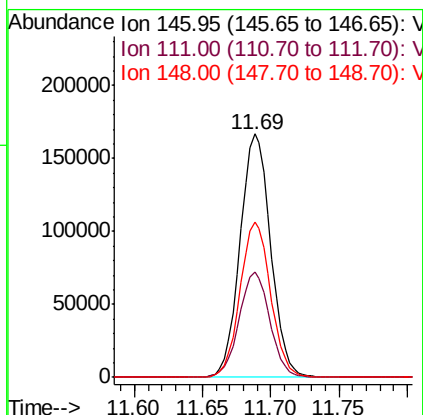
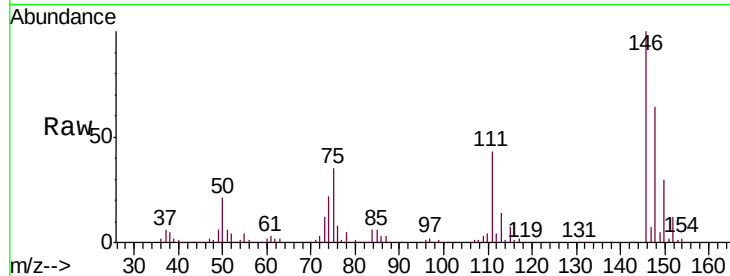




#65  
 1,2-Dichlorobenzene  
 Concen: 9.605 ug/L  
 RT: 11.69 min Scan# 3296  
 Delta R.T. 0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

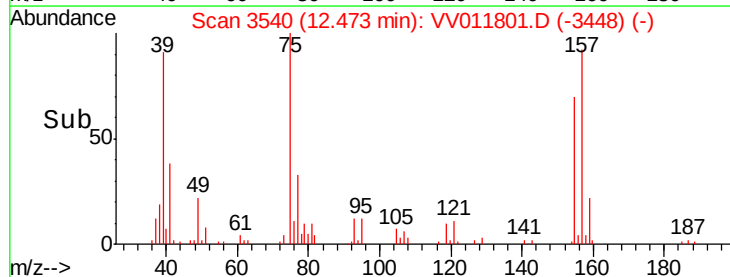
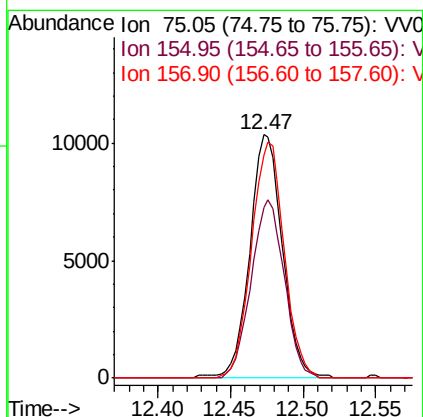
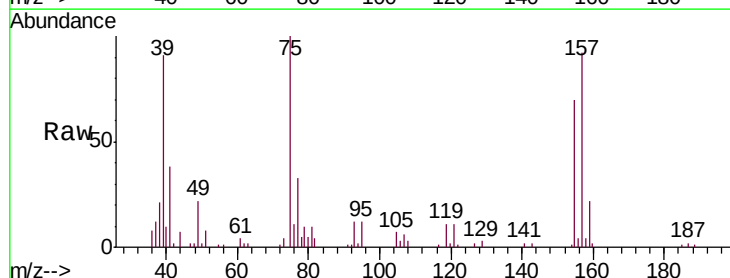
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01031

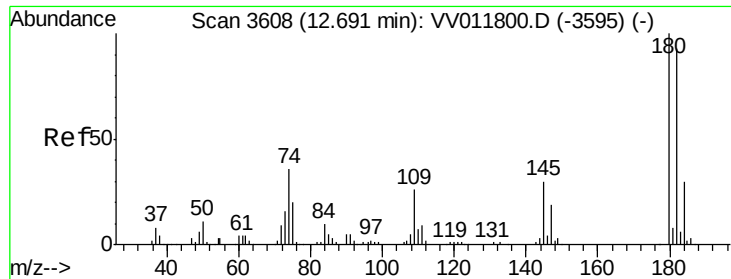
Tgt Ion: 146 Resp: 259766  
 Ion Ratio Lower Upper  
 146 100  
 111 43.2 34.6 52.0  
 148 63.8 53.3 79.9



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 8.485 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. -0.00 min  
 Lab File: VV011801.D  
 Acq: 02 Jul 2019 11:16

Tgt Ion: 75 Resp: 16244  
 Ion Ratio Lower Upper  
 75 100  
 155 70.0 64.2 96.4  
 157 91.7 73.6 110.4





#67

1,3,5-Trichlorobenzene

Concen: 10.554 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01031

Tgt Ion:180 Resp: 212804

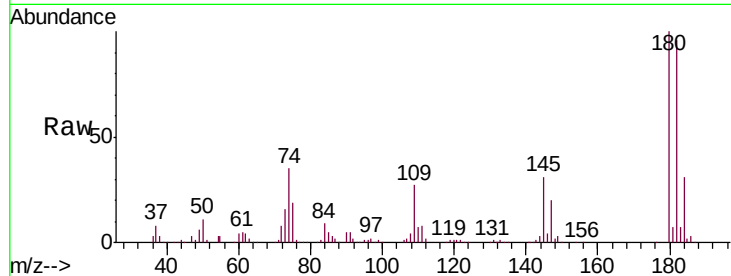
Ion Ratio Lower Upper

180 100

182 96.0 75.3 112.9

184 30.2 24.2 36.4

145 30.4 23.7 35.5

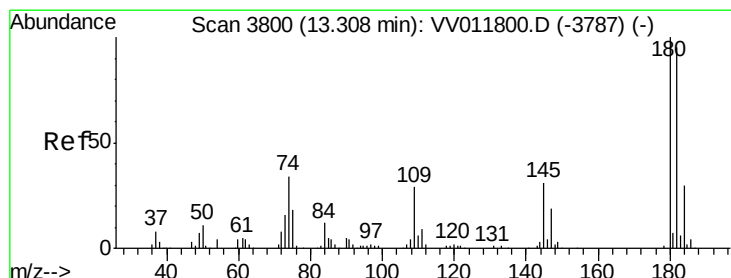
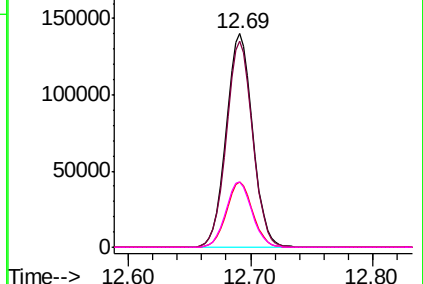
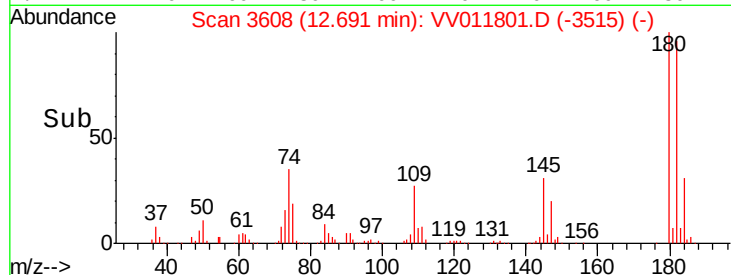


Abundance Ion 180.00 (179.70 to 180.70): V

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: 10.832 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

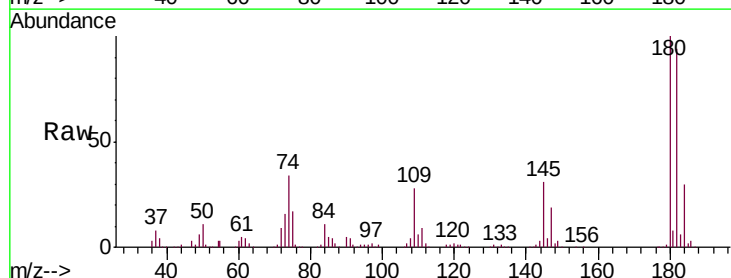
Tgt Ion:180 Resp: 175419

Ion Ratio Lower Upper

180 100

182 94.9 75.2 112.8

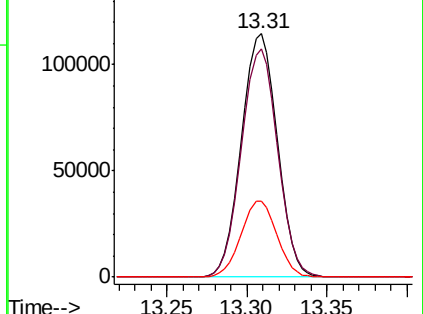
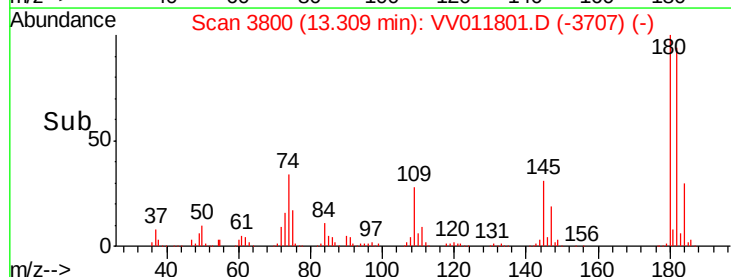
145 31.1 24.5 36.7

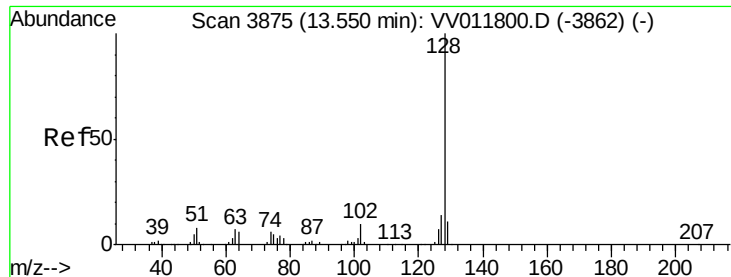


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 9.875 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01031

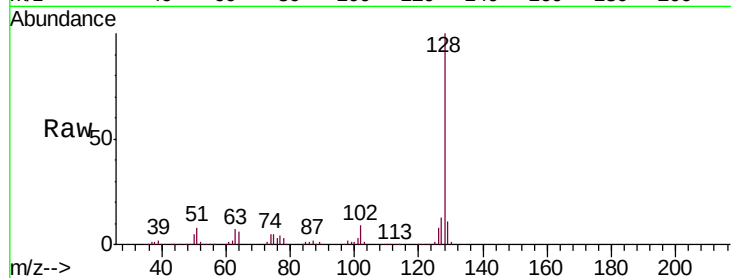
Tgt Ion:128 Resp: 302948

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

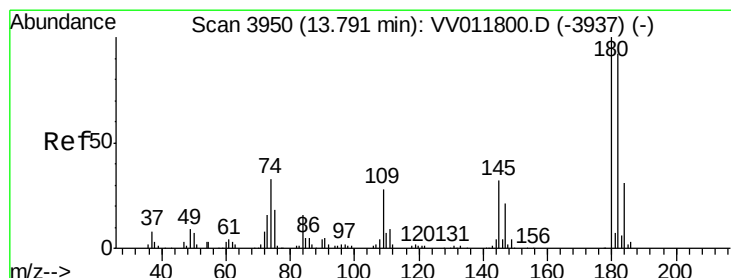
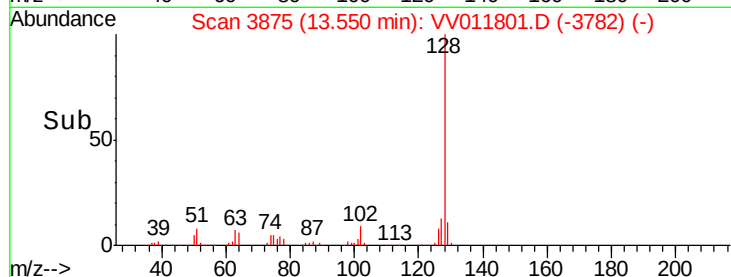
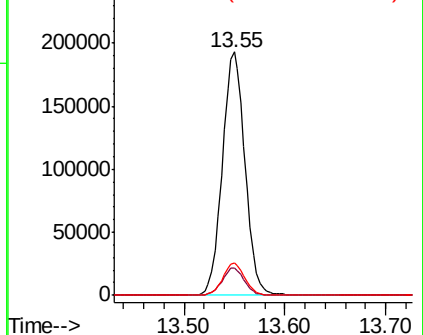
127 12.9 10.6 16.0



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: 10.510 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV011801.D

Acq: 02 Jul 2019 11:16

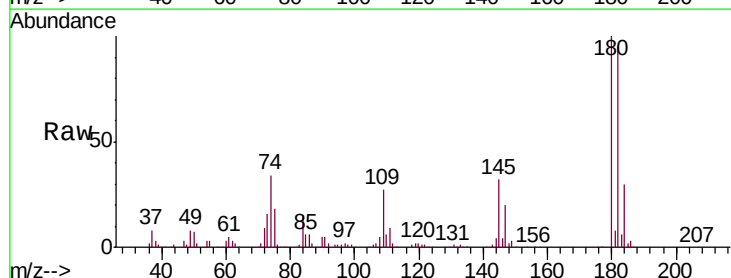
Tgt Ion:180 Resp: 164150

Ion Ratio Lower Upper

180 100

182 94.0 74.7 112.1

145 32.0 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

