

Data File : VV012078.D  
Acq On : 30 Jul 2019 18:54  
Operator : SY/MD  
Sample : VSTD02031  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

Quant Time: Jul 31 04:37:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR073119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 31 04:32:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 132380   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 127214   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 73210    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |       |
|--------------------------------|-------|-----|--------|--------|------|-------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 116501 | 17.11  | ug/L | 0.00  |
| 7) Chloroethane-d5             | 1.59  | 69  | 90588  | 16.84  | ug/L | 0.00  |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 246346 | 18.09  | ug/L | 0.00  |
| 20) 2-Butanone-d5              | 3.96  | 46  | 353576 | 178.98 | ug/L | -0.01 |
| 24) Chloroform-d               | 4.40  | 84  | 314537 | 17.51  | ug/L | 0.00  |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 179297 | 19.11  | ug/L | 0.00  |
| 32) Benzene-d6                 | 5.10  | 84  | 629023 | 17.88  | ug/L | 0.00  |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 171797 | 17.17  | ug/L | 0.00  |
| 41) Toluene-d8                 | 7.36  | 98  | 609901 | 18.56  | ug/L | 0.00  |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 81802  | 19.77  | ug/L | 0.00  |
| 46) 2-Hexanone-d5              | 8.13  | 63  | 290881 | 181.79 | ug/L | 0.00  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 128287 | 17.73  | ug/L | 0.00  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 252013 | 17.94  | ug/L | 0.00  |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 284112 | 20.593 ug/L  | 98     |
| 3) Chloromethane               | 1.25 | 50  | 136989 | 17.852 ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 147869 | 18.660 ug/L  | 97     |
| 6) Bromomethane                | 1.54 | 94  | 96505  | 20.349 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 81170  | 17.396 ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 291118 | 19.569 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 124051 | 18.590 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 115117 | 19.318 ug/L  | 92     |
| 13) Acetone                    | 2.23 | 43  | 168224 | 161.496 ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 321136 | 19.049 ug/L  | 97     |
| 15) Methyl Acetate             | 2.47 | 43  | 34633  | 15.027 ug/L  | 97     |
| 16) Methylene chloride         | 2.53 | 84  | 109155 | 16.249 ug/L  | 100    |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 393049 | 19.421 ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 171635 | 18.705 ug/L  | 94     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 300962 | 18.540 ug/L  | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 359622 | 180.580 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 187674 | 18.968 ug/L  | 95     |
| 23) Bromochloromethane         | 4.30 | 128 | 81027  | 19.679 ug/L  | 95     |
| 25) Chloroform                 | 4.43 | 83  | 370631 | 18.573 ug/L  | 99     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 218598 | 19.763 ug/L  | 98     |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 333299 | 20.655 ug/L  | 99     |
| 30) Cyclohexane                | 4.72 | 56  | 269173 | 18.219 ug/L  | 98     |
| 31) Carbon tetrachloride       | 4.87 | 117 | 303329 | 20.813 ug/L  | 100    |
| 33) Benzene                    | 5.15 | 78  | 683828 | 18.787 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 192949 | 18.926 ug/L  | 95     |
| 35) Methylcyclohexane          | 6.17 | 83  | 310654 | 19.689 ug/L  | 99     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 154781 | 17.845 ug/L  | 99     |
| 38) Bromodichloromethane       | 6.56 | 83  | 237002 | 20.114 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 263551 | 20.297 ug/L  | 99     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 882290 | 183.876 ug/L | 99     |

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Response via : Initial Calibration

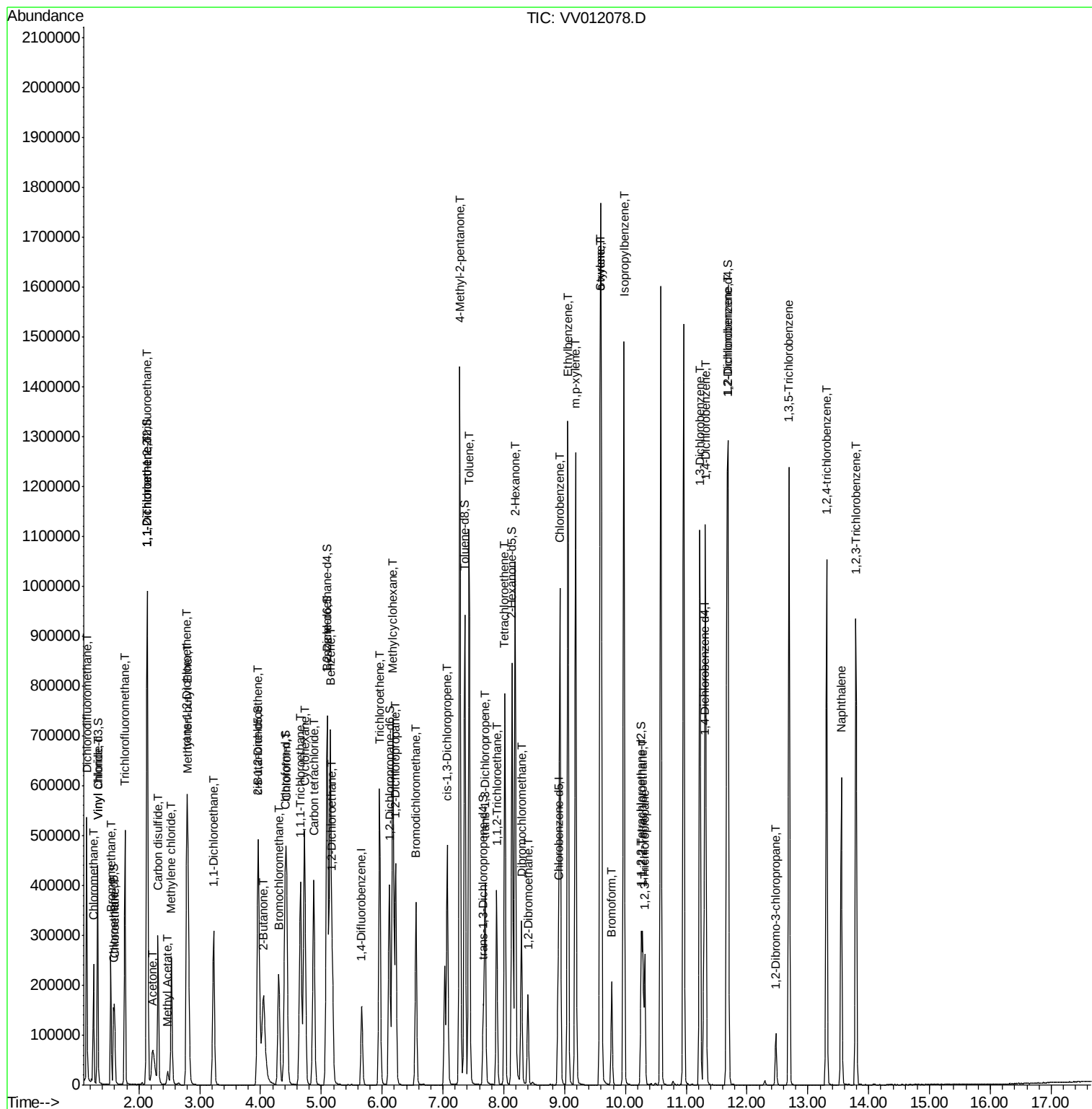
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 762694   | 19.474  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 214954   | 20.750  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 115049   | 18.970  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 175389   | 19.718  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.19  | 43   | 631170   | 188.783 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.29  | 129  | 161559   | 21.412  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 112679   | 19.601  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.92  | 112  | 502974   | 19.478  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 902636   | 20.149  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 344659   | 20.285  | ug/L  | 96       |
| 54) o-xylene                   | 9.59  | 106  | 334768   | 20.632  | ug/L  | 95       |
| 55) Styrene                    | 9.60  | 104  | 564655   | 20.731  | ug/L  | 97       |
| 56) Isopropylbenzene           | 9.97  | 105  | 928062   | 20.542  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 127391   | 19.288  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 97234    | 19.165  | ug/L  | 98       |
| 61) Bromoform                  | 9.77  | 173  | 91815    | 20.859  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 449864   | 19.126  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 445429   | 18.406  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 404876   | 18.824  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 25150    | 19.842  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 377796   | 19.160  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 319250   | 20.101  | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 476661   | 20.332  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 281457   | 19.643  | ug/L  | 99       |

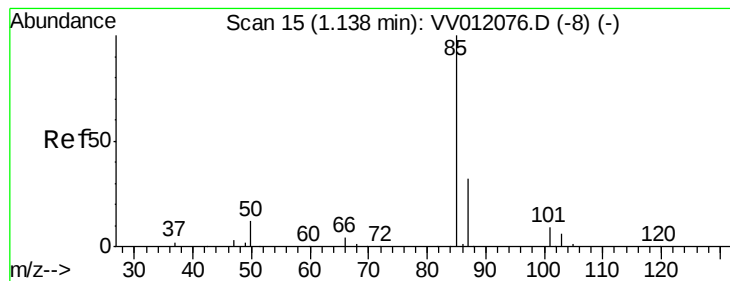
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#2

Dichlorodifluoromethane

Concen: 20.593 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

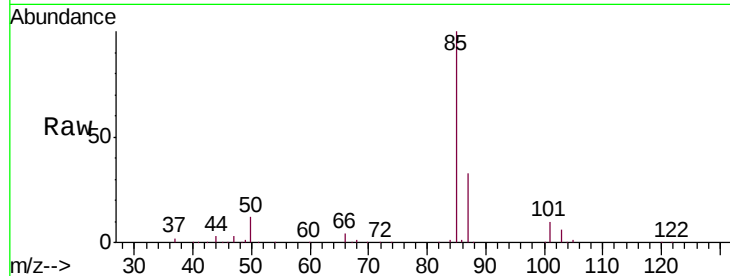
VSTD02031

Tgt Ion: 85 Resp: 284112

Ion Ratio Lower Upper

85 100

87 32.9 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV012076.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012076.D (-8) (-)

1.14

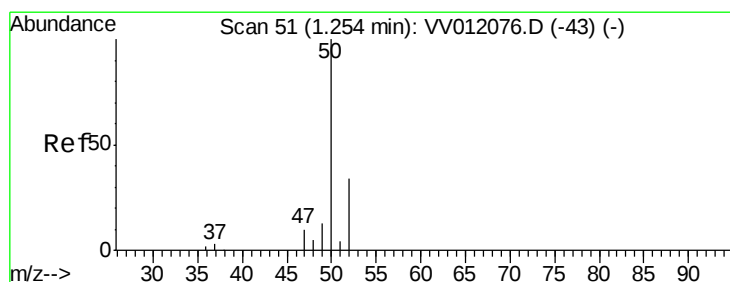
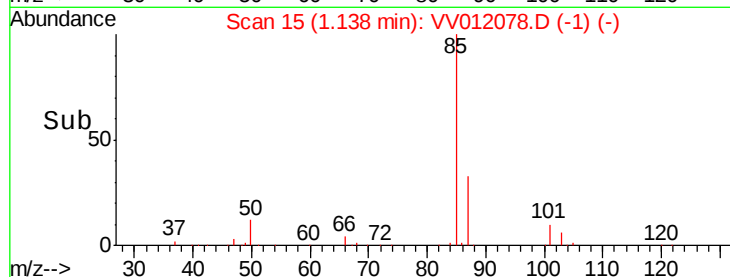
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 17.852 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012078.D

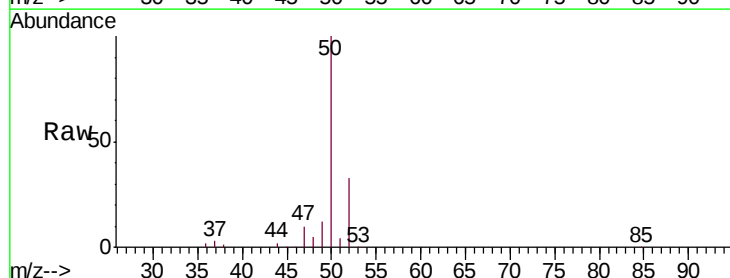
Acq: 30 Jul 2019 18:54

Tgt Ion: 50 Resp: 136989

Ion Ratio Lower Upper

50 100

52 33.4 23.7 43.9



Abundance Ion 50.05 (49.75 to 50.75): VV012076.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV012076.D (-43) (-)

1.25

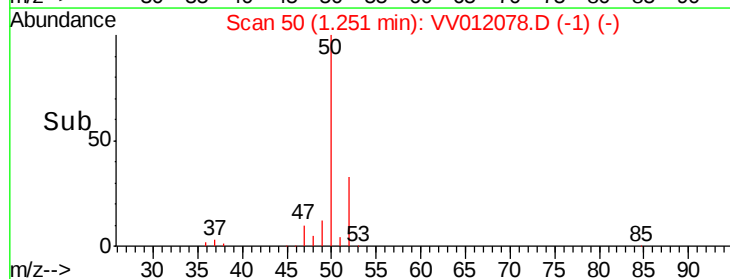
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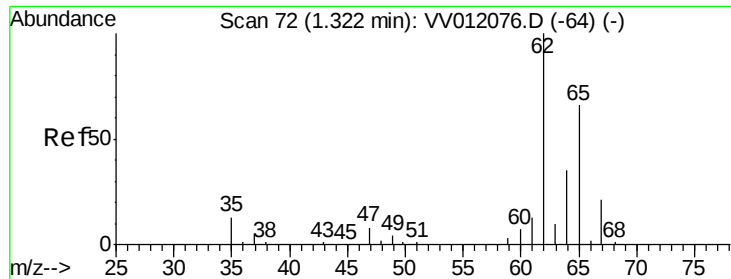
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 18.660 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

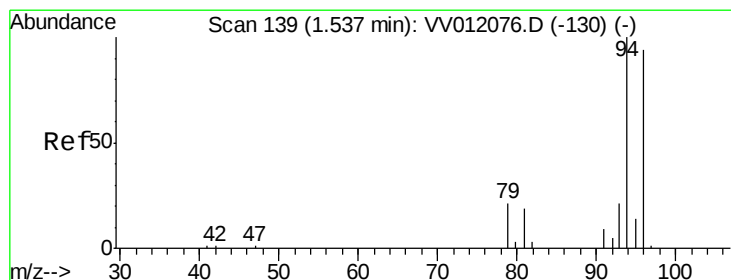
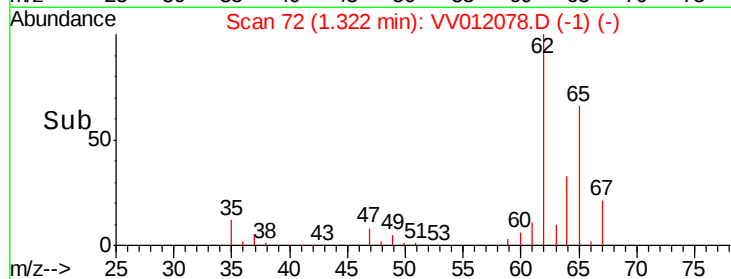
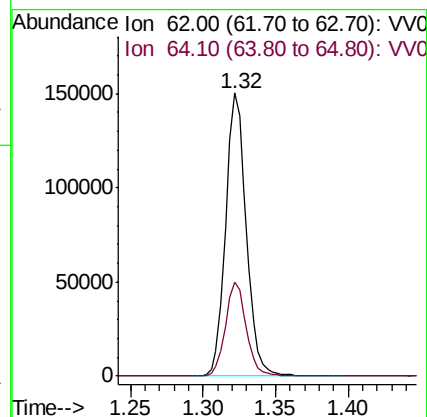
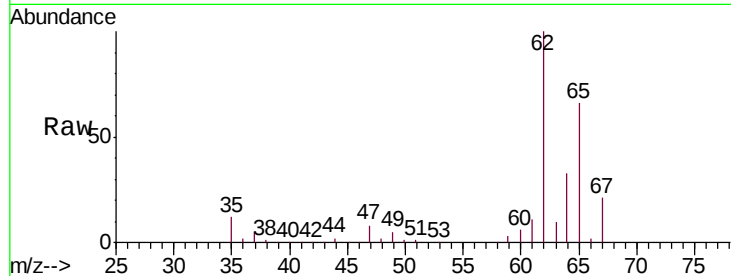
VSTD02031

Tgt Ion: 62 Resp: 147869

Ion Ratio Lower Upper

62 100

64 33.2 24.3 45.1



#6

Bromomethane

Concen: 20.349 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012078.D

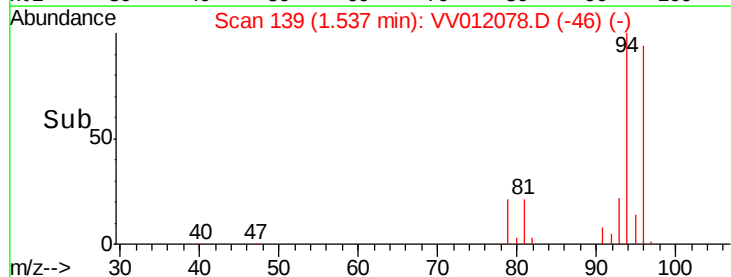
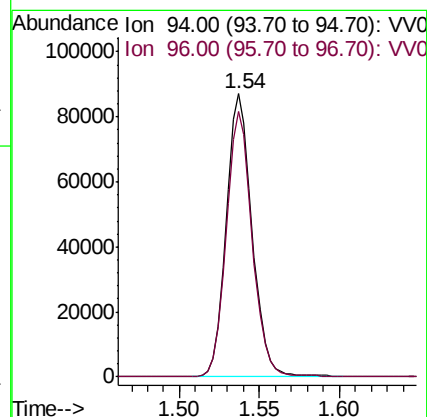
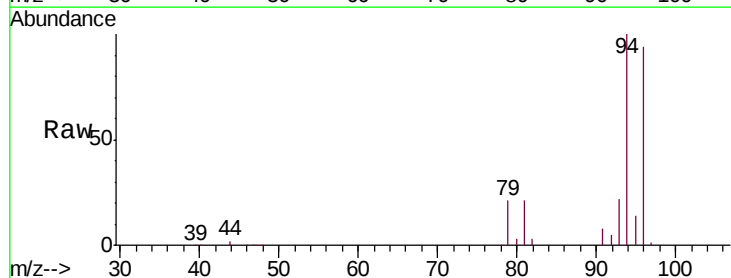
Acq: 30 Jul 2019 18:54

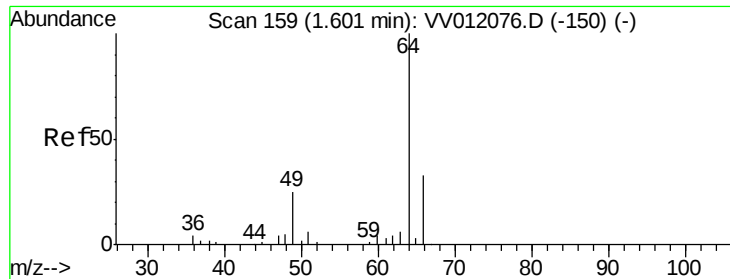
Tgt Ion: 94 Resp: 96505

Ion Ratio Lower Upper

94 100

96 93.9 65.6 121.8





#8

Chloroethane

Concen: 17.396 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

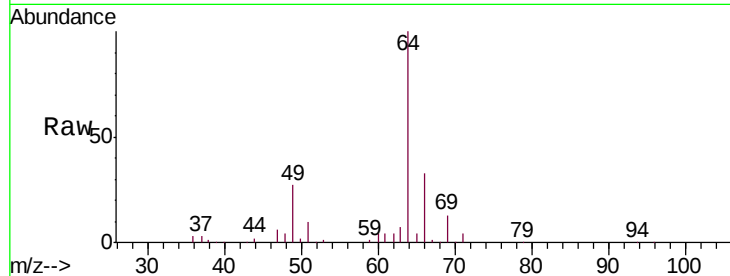
VSTD02031

Tgt Ion: 64 Resp: 81170

Ion Ratio Lower Upper

64 100

66 32.6 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VV012076.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV012076.D (-150) (-)

1.60

80000

60000

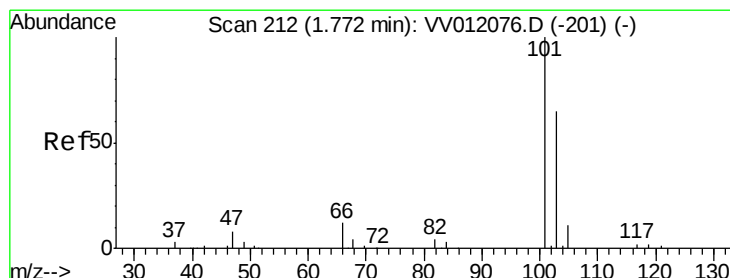
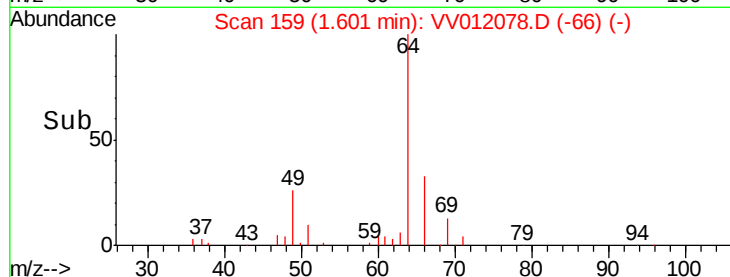
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20000

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Time-->

1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 19.569 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012078.D

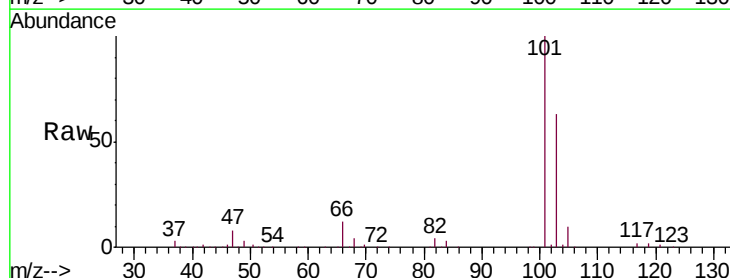
Acq: 30 Jul 2019 18:54

Tgt Ion: 101 Resp: 291118

Ion Ratio Lower Upper

101 100

103 64.7 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VV012076.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012076.D (-201) (-)

1.77

250000

200000

150000

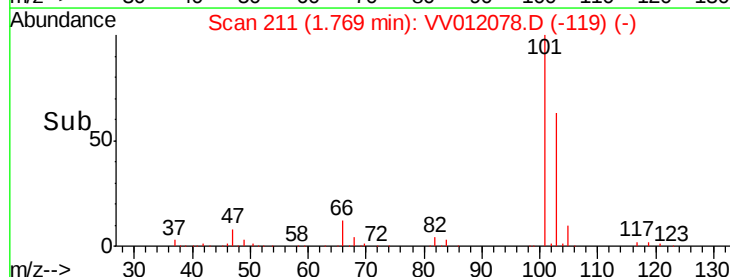
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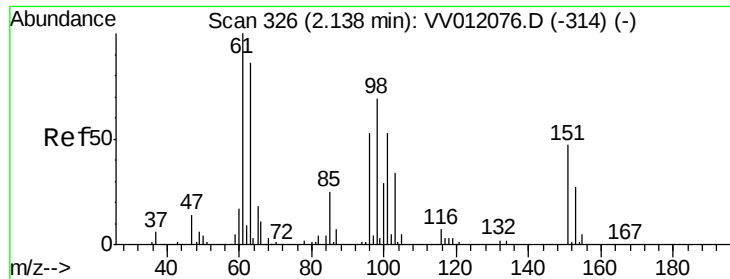
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Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 18.590 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

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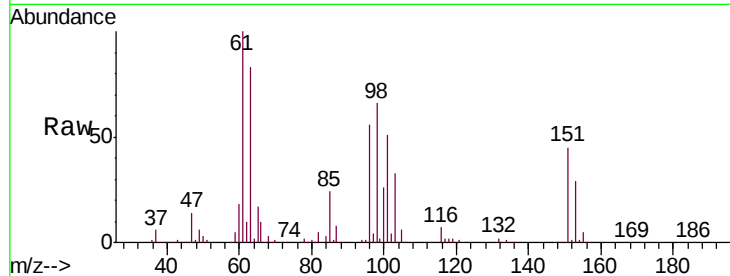
Tgt Ion: 101 Resp: 124051

Ion Ratio Lower Upper

101 100

85 44.9 37.4 56.2

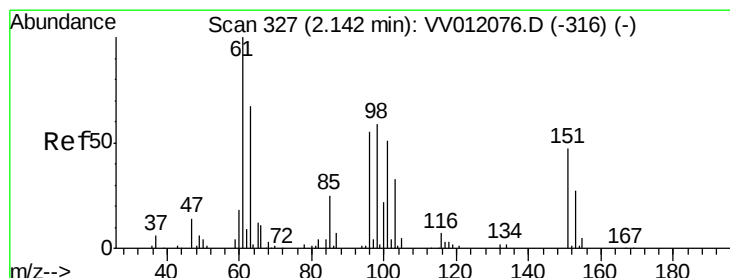
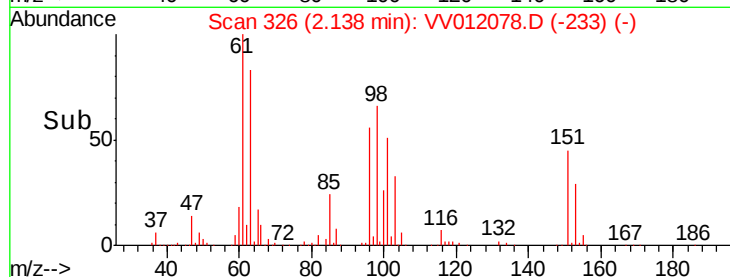
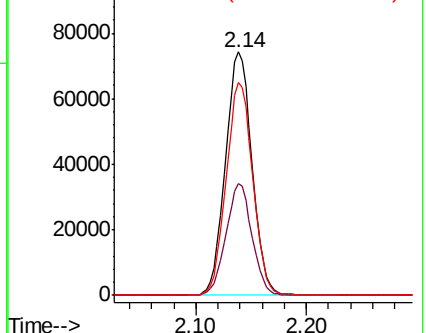
151 87.8 69.1 103.7



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: 19.318 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

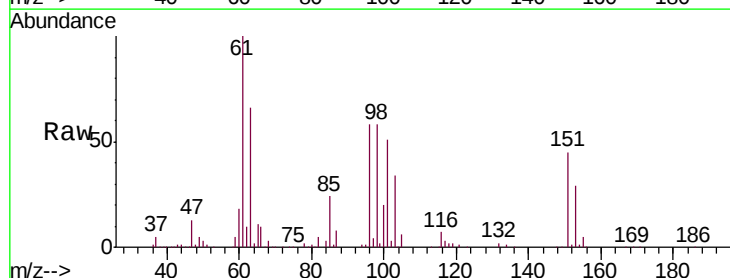
Tgt Ion: 96 Resp: 115117

Ion Ratio Lower Upper

96 100

61 171.8 126.9 235.7

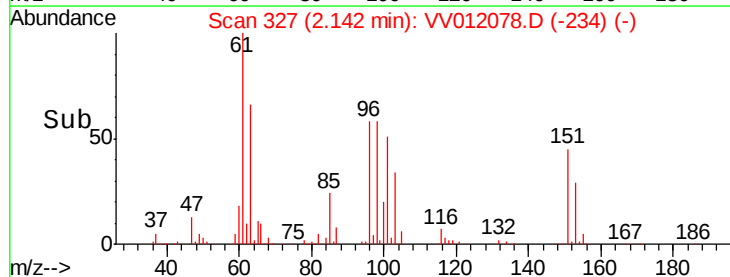
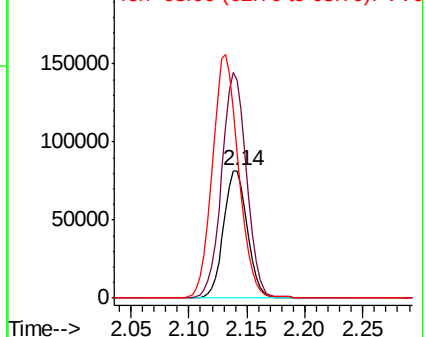
63 114.2 87.6 162.8

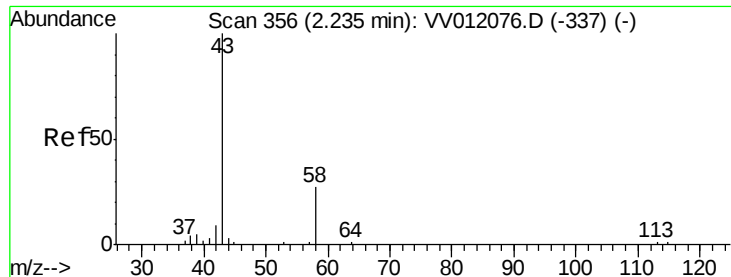


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 161.496 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.01 min

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ClientSampleId :

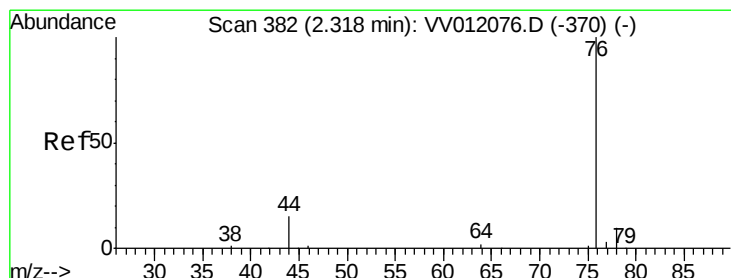
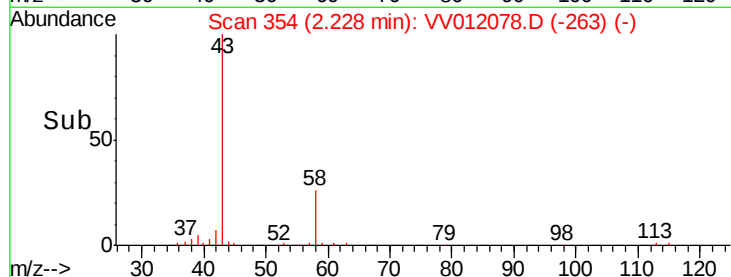
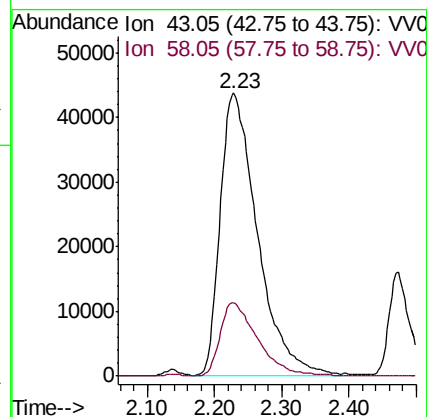
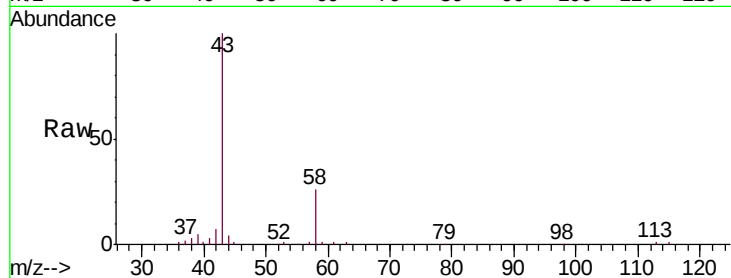
VSTD02031

Tgt Ion: 43 Resp: 168224

Ion Ratio Lower Upper

43 100

58 25.9 0.0 51.0



#14

Carbon disulfide

Concen: 19.049 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012078.D

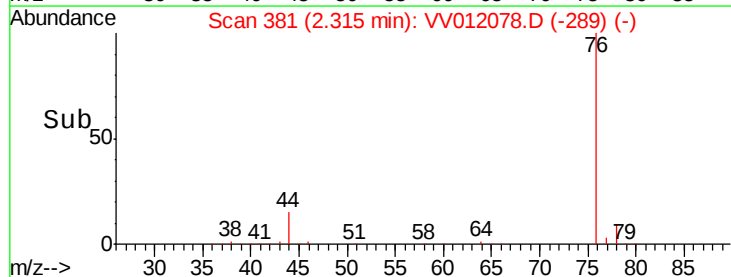
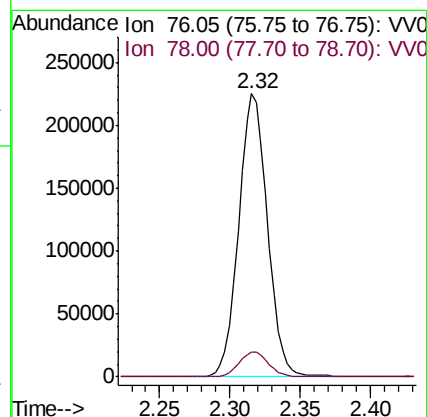
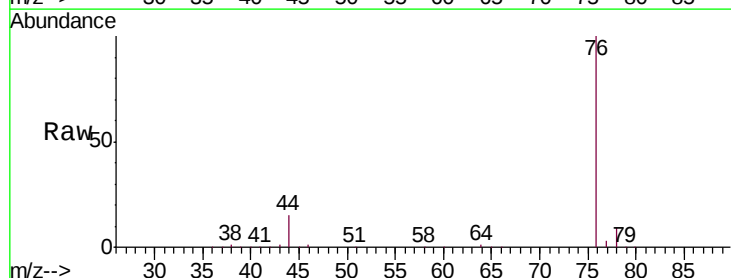
Acq: 30 Jul 2019 18:54

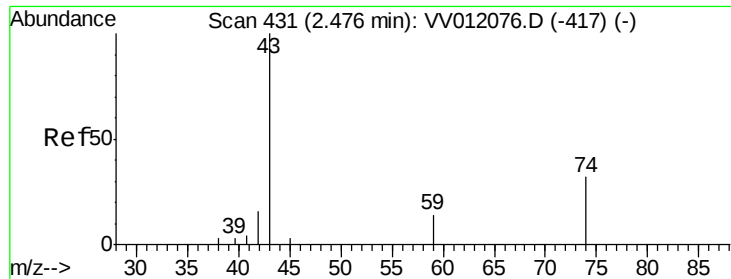
Tgt Ion: 76 Resp: 321136

Ion Ratio Lower Upper

76 100

78 8.8 7.9 11.9

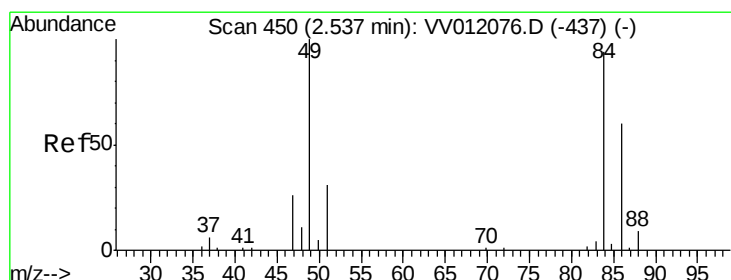
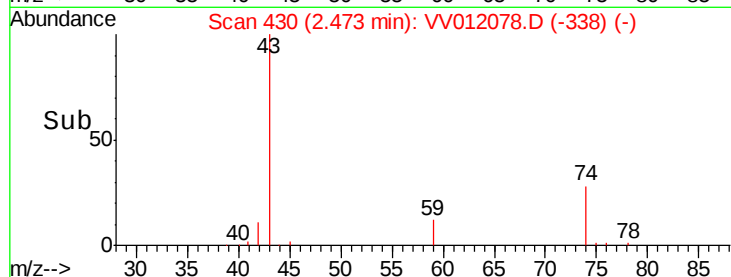
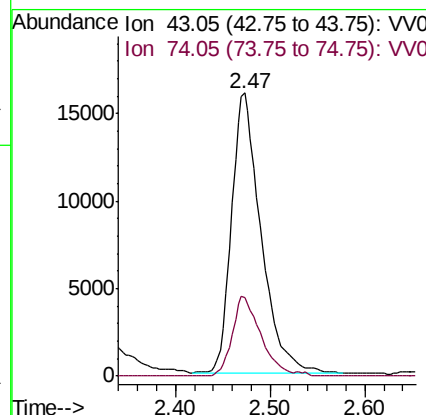
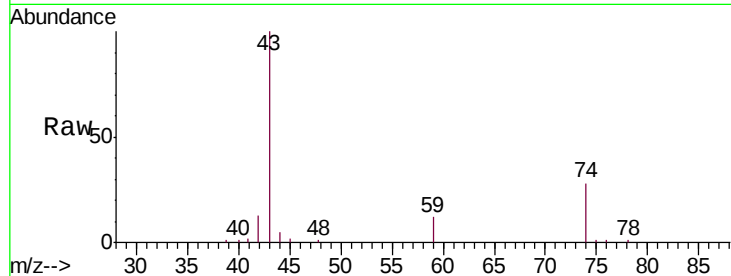




#15  
Methyl Acetate  
Concen: 15.027 ug/L  
RT: 2.47 min Scan# 430  
Delta R.T. -0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

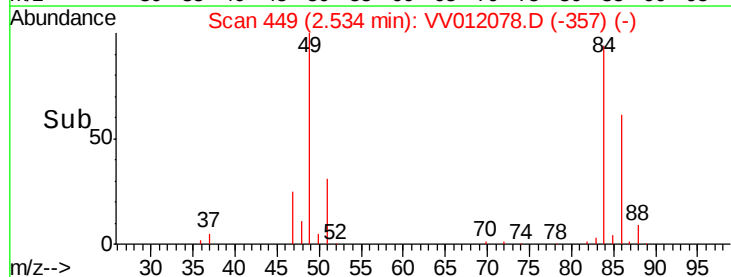
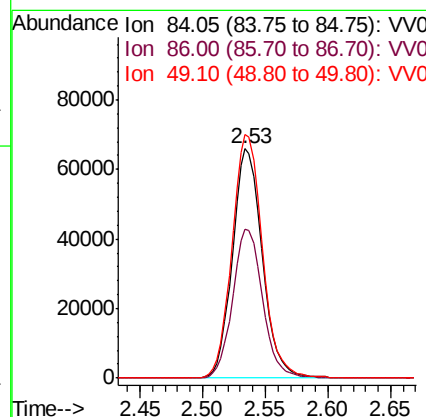
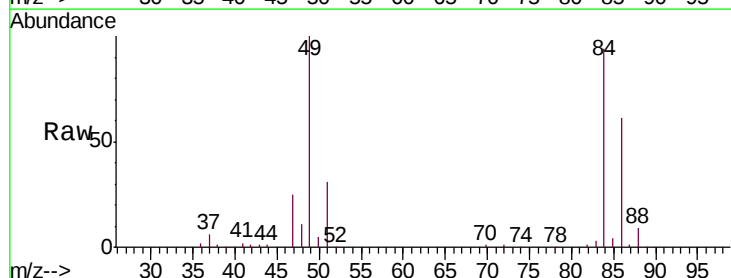
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

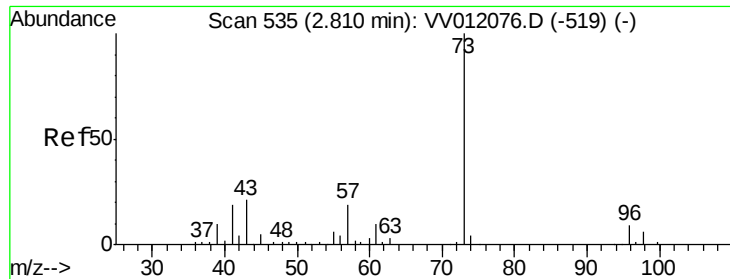
Tgt Ion: 43 Resp: 34633  
Ion Ratio Lower Upper  
43 100  
74 27.6 23.4 35.0



#16  
Methylene chloride  
Concen: 16.249 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. -0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion: 84 Resp: 109155  
Ion Ratio Lower Upper  
84 100  
86 64.9 45.0 83.6  
49 106.2 74.4 138.2

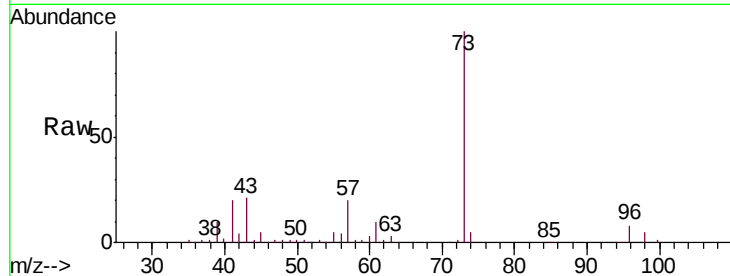




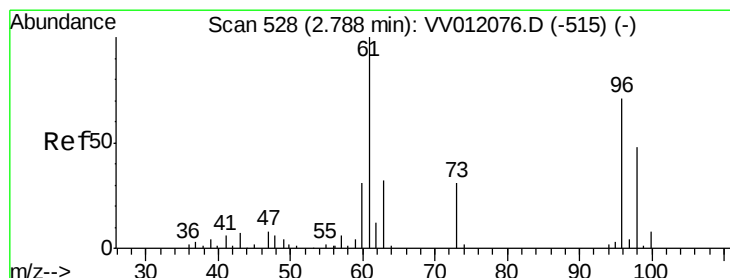
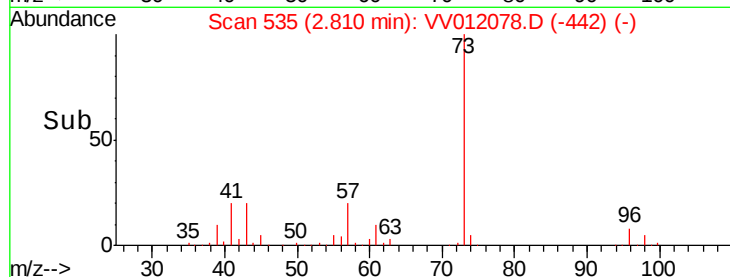
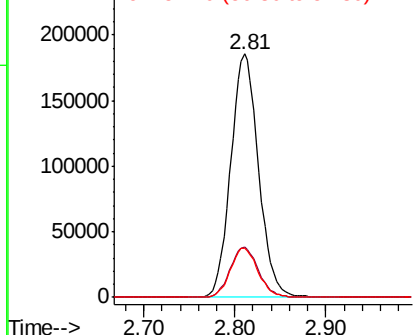
#17  
Methyl tert-butyl Ether  
Concen: 19.421 ug/L  
RT: 2.81 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

Tgt Ion: 73 Resp: 393049  
Ion Ratio Lower Upper  
73 100  
43 21.1 17.2 25.8  
57 20.2 15.1 22.7

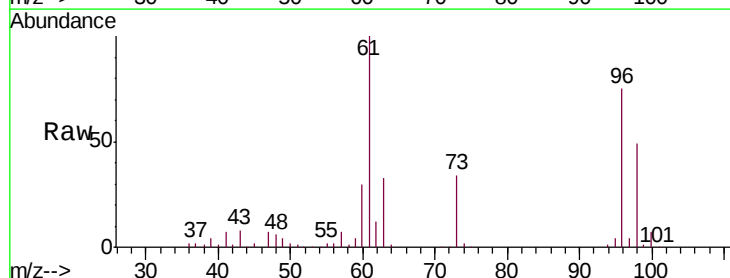


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

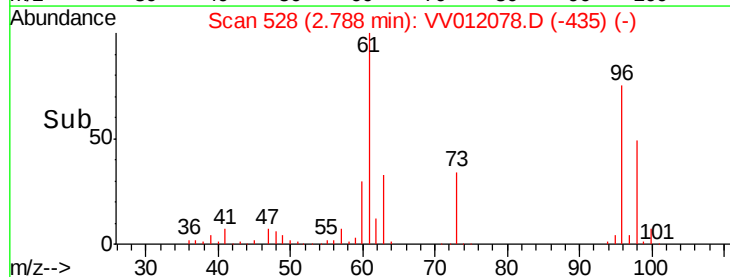
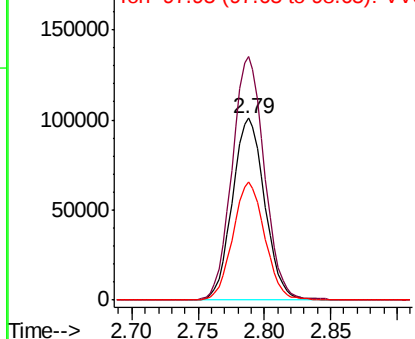


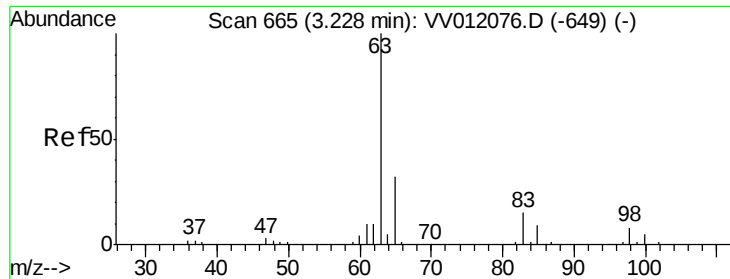
#18  
trans-1,2-Dichloroethene  
Concen: 18.705 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion: 96 Resp: 171635  
Ion Ratio Lower Upper  
96 100  
61 133.8 99.0 184.0  
98 65.2 47.9 88.9



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

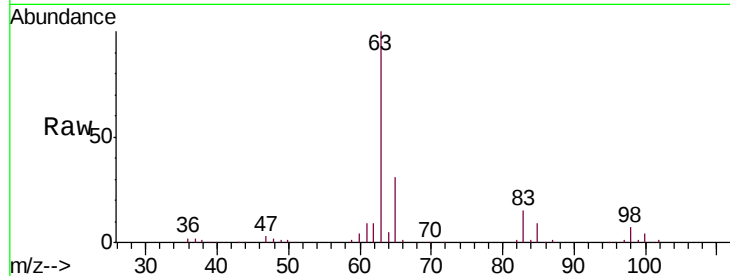




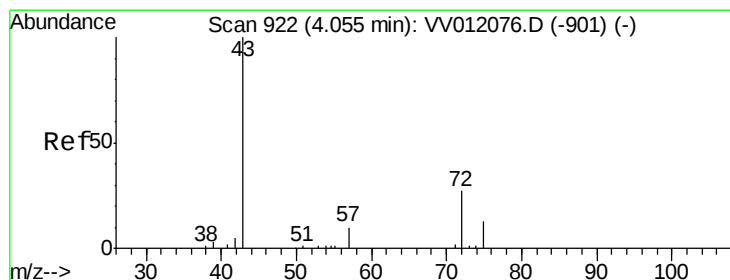
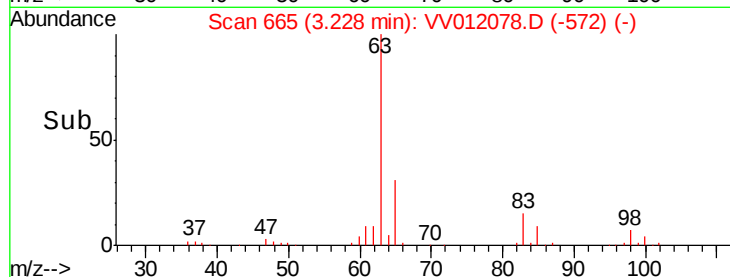
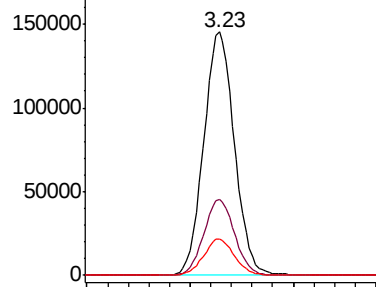
#19  
 1,1-Dichloroethane  
 Concen: 18.540 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

Tgt Ion: 63 Resp: 300962  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 22.3 41.3  
 83 14.9 10.4 19.2

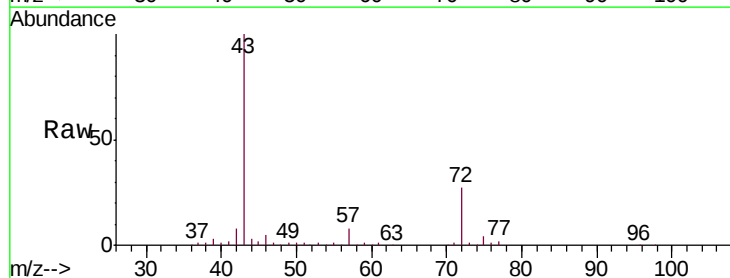


Abundance Ion 63.10 (62.80 to 63.80): VV0  
 Ion 65.10 (64.80 to 65.80): VV0  
 Ion 83.05 (82.75 to 83.75): VV0

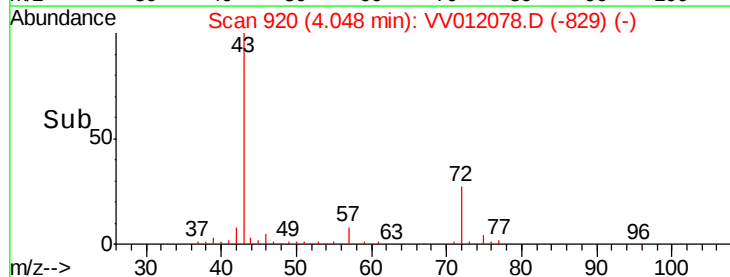
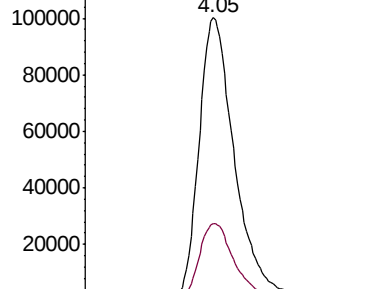


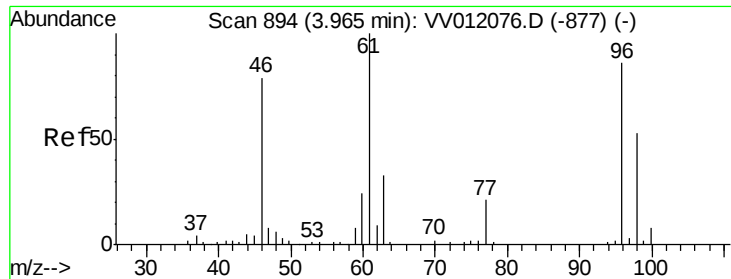
#21  
 2-Butanone  
 Concen: 180.580 ug/L  
 RT: 4.05 min Scan# 920  
 Delta R.T. -0.01 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Tgt Ion: 43 Resp: 359622  
 Ion Ratio Lower Upper  
 43 100  
 72 28.2 14.0 42.0



Abundance Ion 43.05 (42.75 to 43.75): VV0  
 Ion 72.10 (71.80 to 72.80): VV0



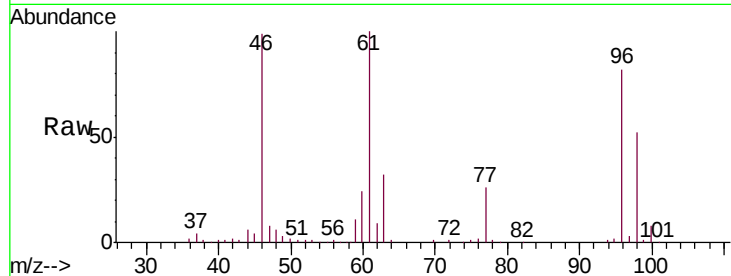


#22

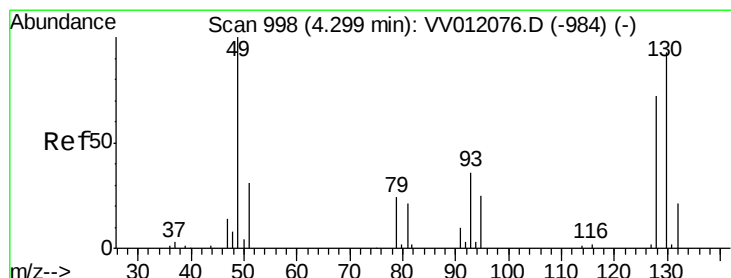
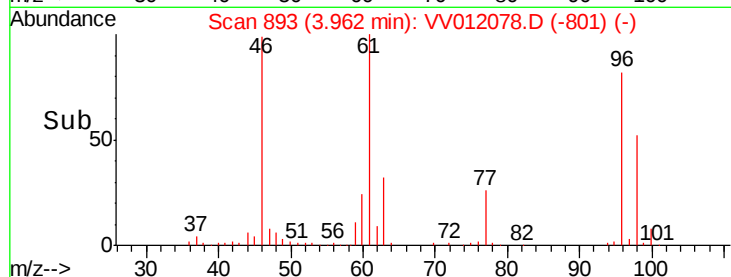
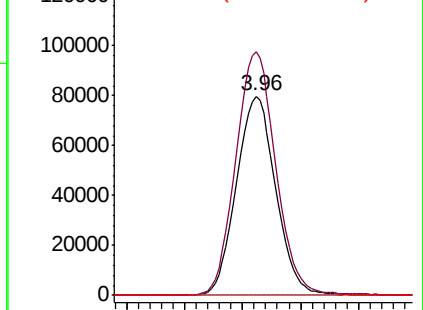
cis-1,2-Dichloroethene  
 Concen: 18.968 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. -0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

Tgt Ion: 96 Resp: 187674  
 Ion Ratio Lower Upper  
 96 100  
 61 122.3 81.5 151.5  
 68 0.0 0.0 0.0



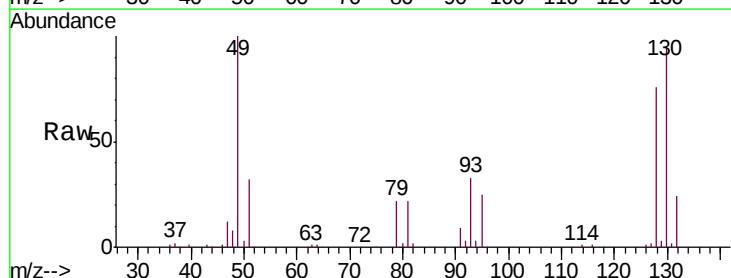
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



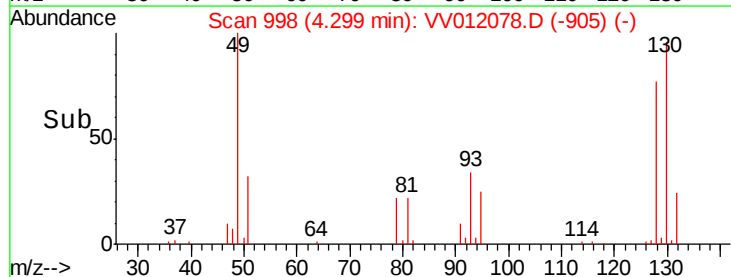
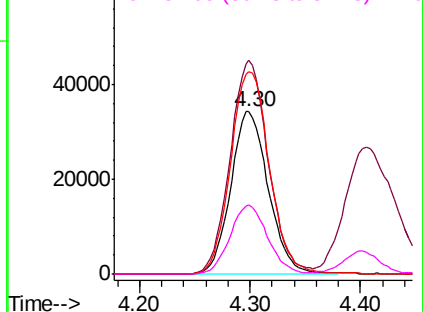
#23

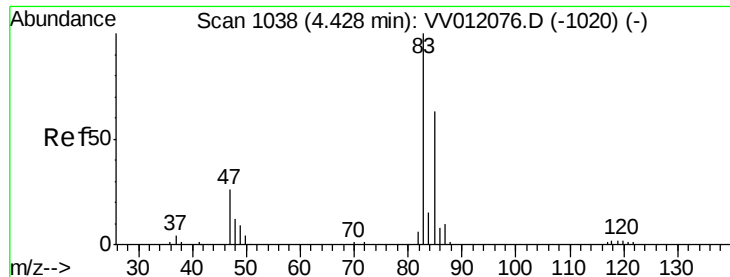
Bromochloromethane  
 Concen: 19.679 ug/L  
 RT: 4.30 min Scan# 998  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Tgt Ion: 128 Resp: 81027  
 Ion Ratio Lower Upper  
 128 100  
 49 131.4 97.9 181.7  
 130 124.7 90.9 168.9  
 51 42.2 34.6 51.8



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VV0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VV0

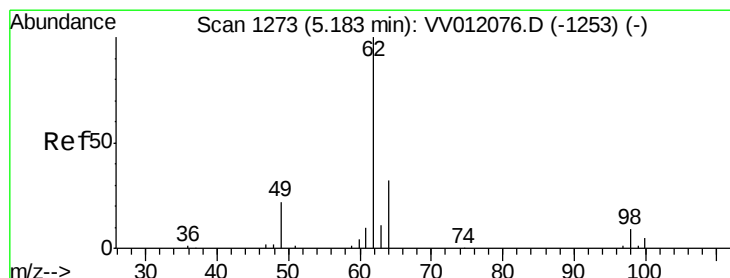
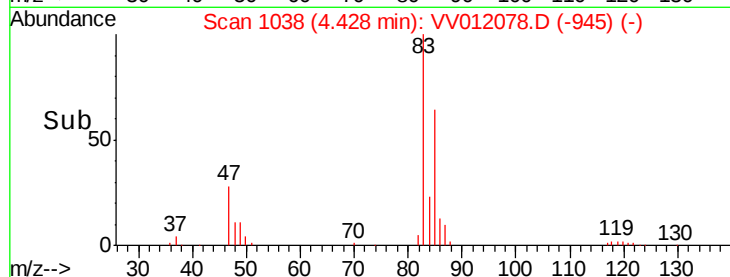
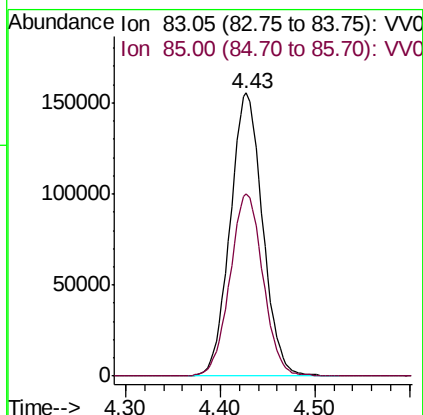
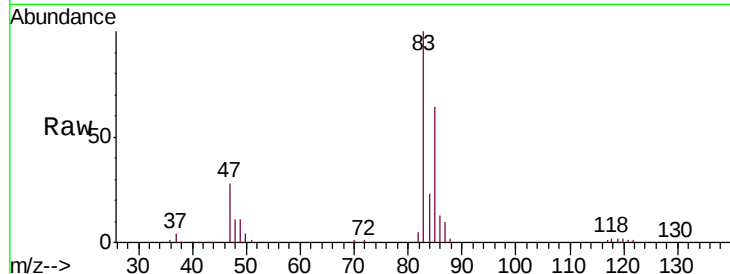




#25  
Chloroform  
Concen: 18.573 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

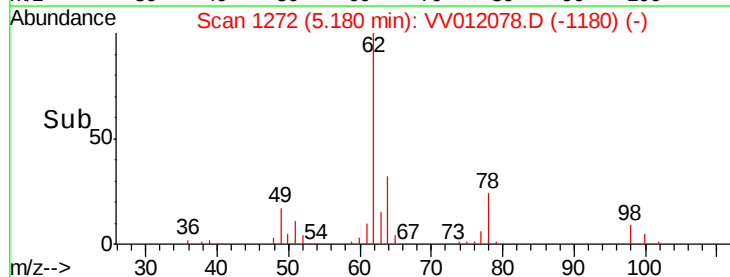
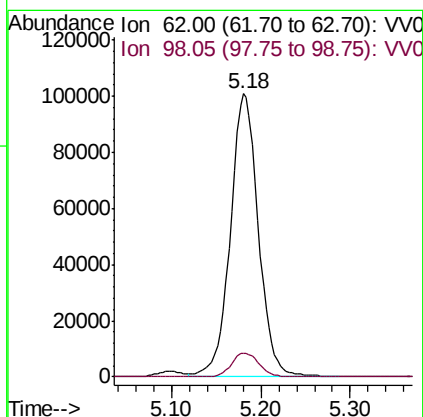
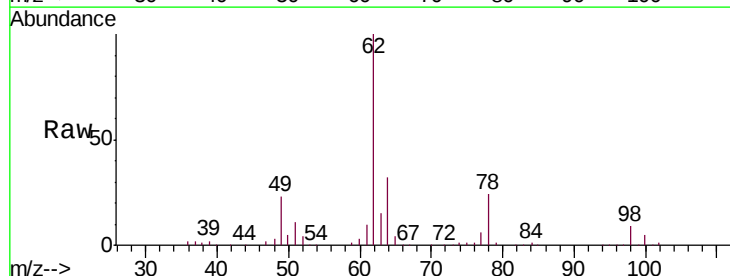
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

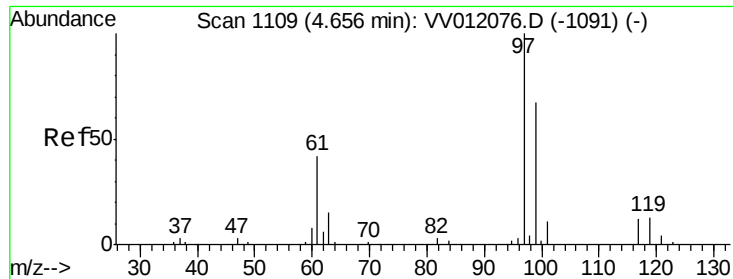
Tgt Ion: 83 Resp: 370631  
Ion Ratio Lower Upper  
83 100  
85 64.4 44.7 83.1



#27  
1,2-Dichloroethane  
Concen: 19.763 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion: 62 Resp: 218598  
Ion Ratio Lower Upper  
62 100  
98 8.5 7.3 10.9

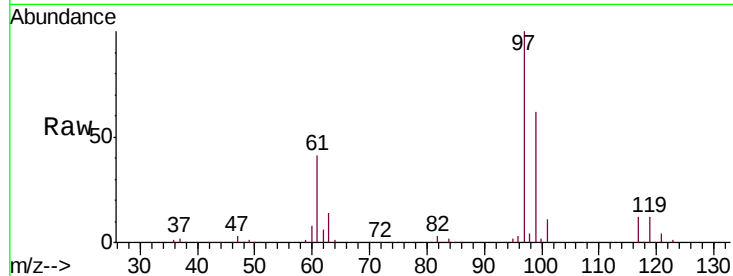




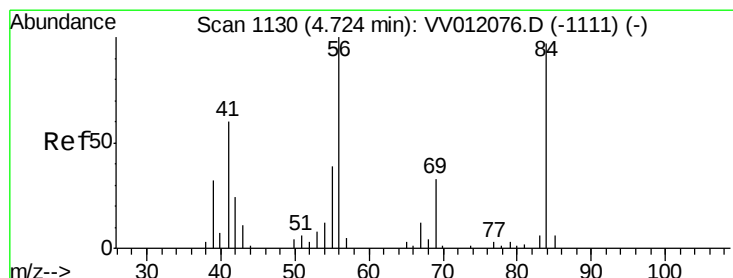
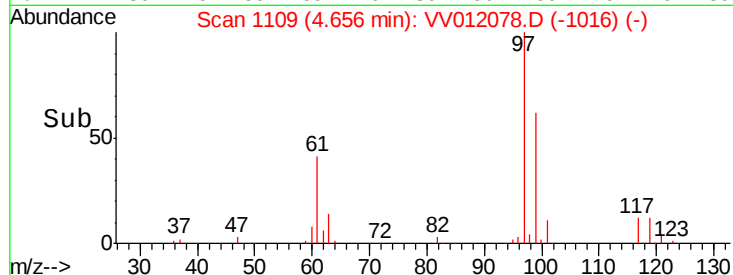
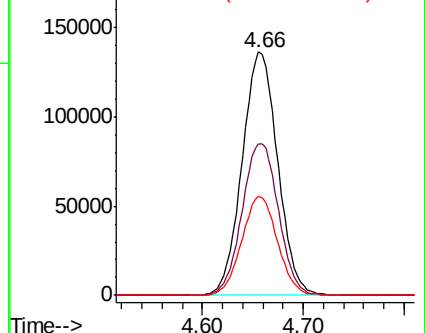
#29  
 1,1,1-Trichloroethane  
 Concen: 20.655 ug/L  
 RT: 4.66 min Scan# 1109  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

Tgt Ion: 97 Resp: 333299  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 51.7 77.5  
 61 41.2 34.2 51.2

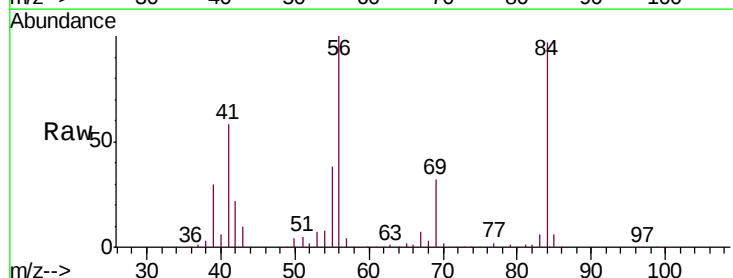


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

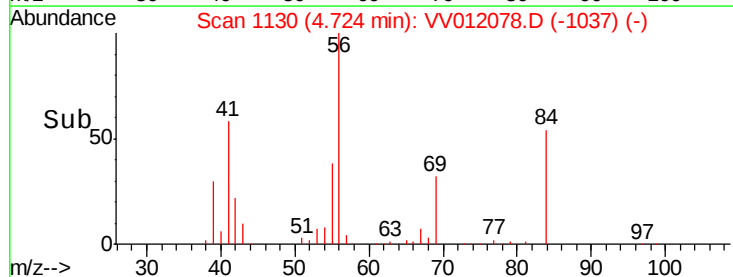
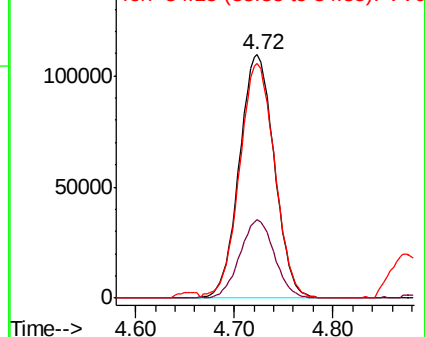


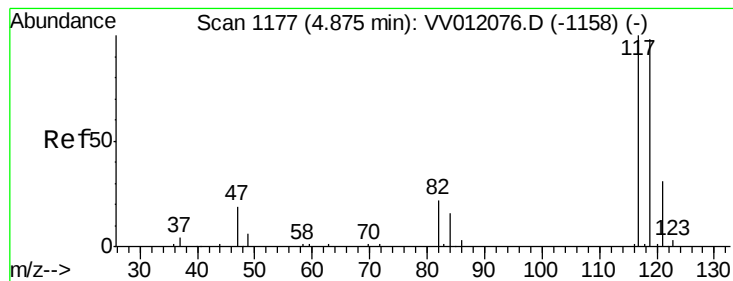
#30  
 Cyclohexane  
 Concen: 18.219 ug/L  
 RT: 4.72 min Scan# 1130  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Tgt Ion: 56 Resp: 269173  
 Ion Ratio Lower Upper  
 56 100  
 69 31.7 26.0 39.0  
 84 97.3 79.9 119.9



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





#31

Carbon tetrachloride

Concen: 20.813 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

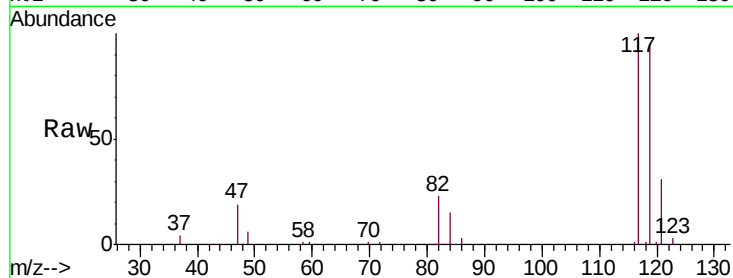
VSTD02031

Tgt Ion:117 Resp: 303329

Ion Ratio Lower Upper

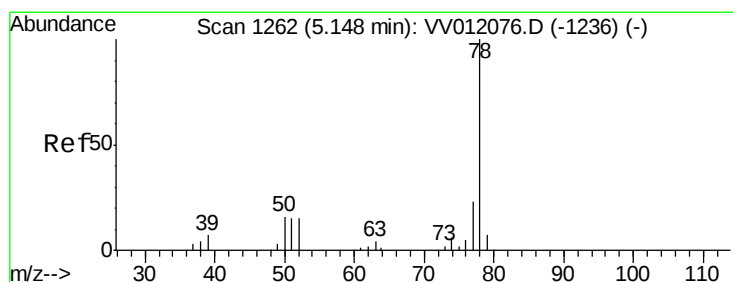
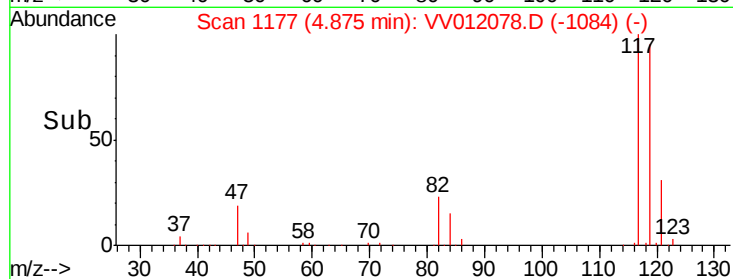
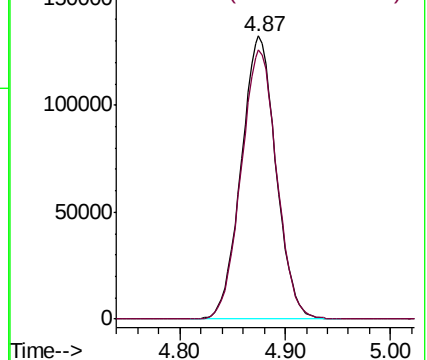
117 100

119 97.3 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 18.787 ug/L

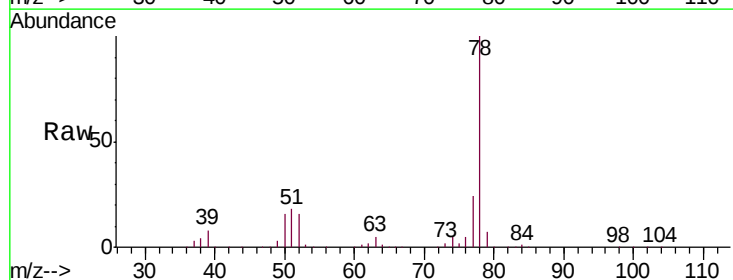
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

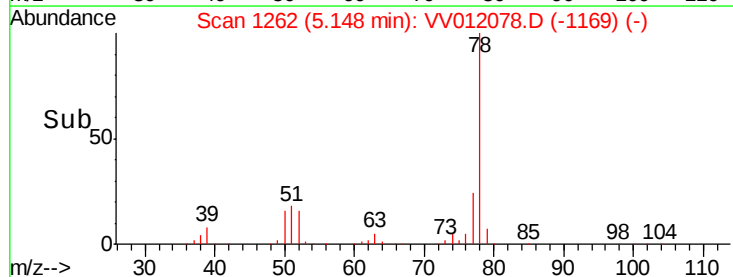
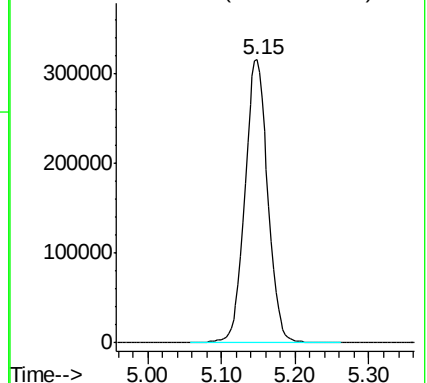
Lab File: VV012078.D

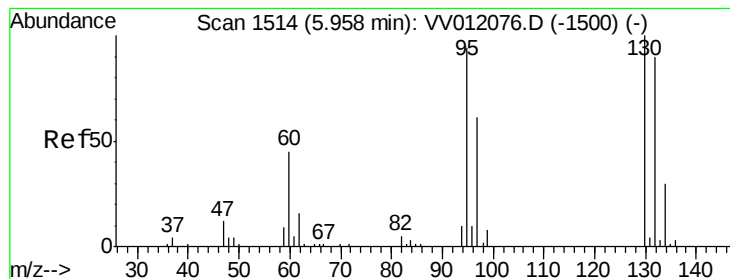
Acq: 30 Jul 2019 18:54

Tgt Ion: 78 Resp: 683828



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 18.926 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02031

Tgt Ion: 95 Resp: 192949

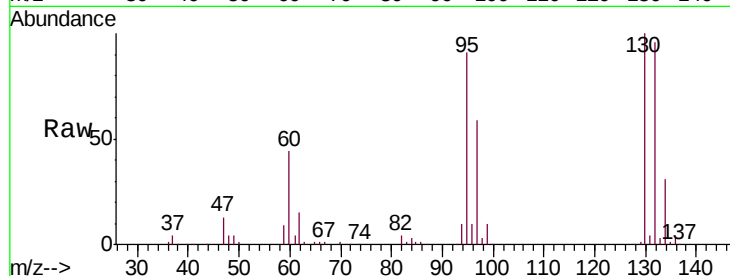
Ion Ratio Lower Upper

95 100

97 64.5 45.4 84.2

132 105.1 67.0 124.4

130 109.7 74.3 137.9

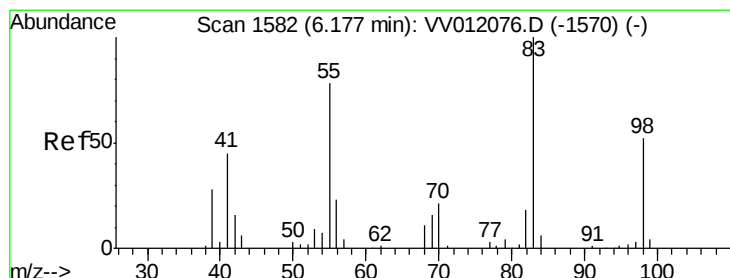
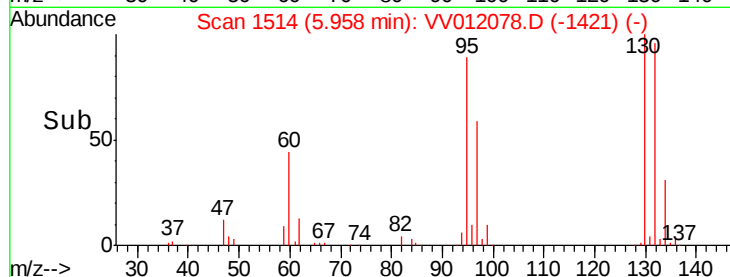
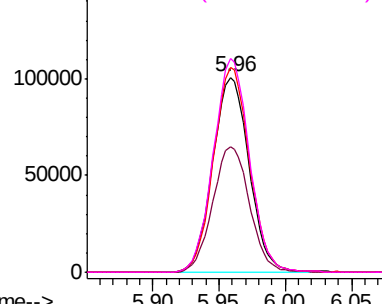


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 19.689 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

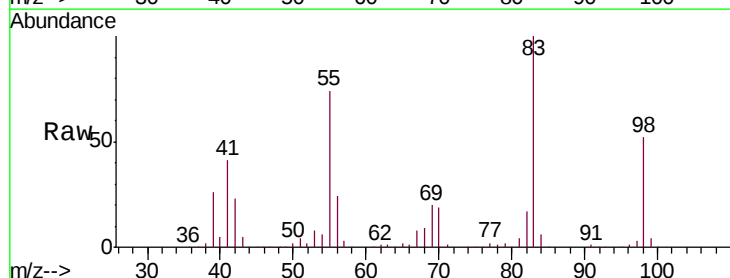
Tgt Ion: 83 Resp: 310654

Ion Ratio Lower Upper

83 100

55 73.2 59.9 89.9

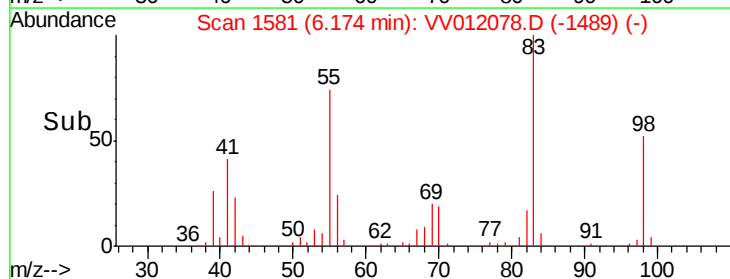
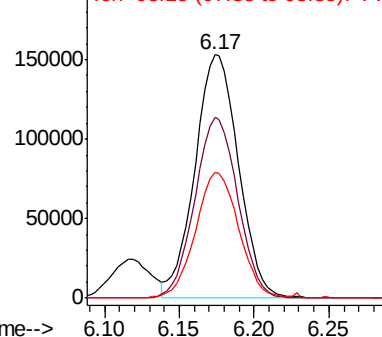
98 51.3 40.8 61.2

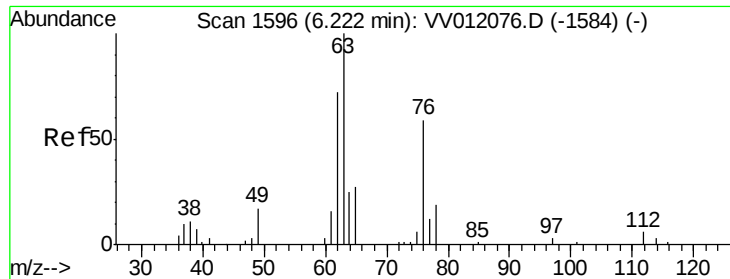


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

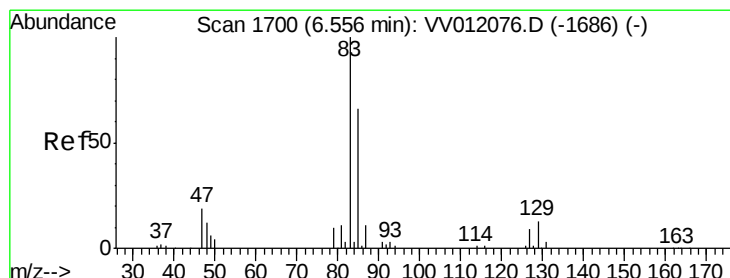
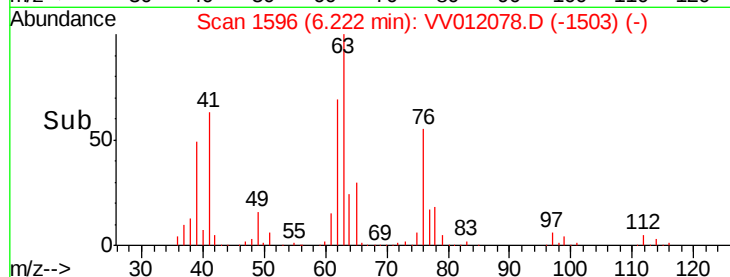
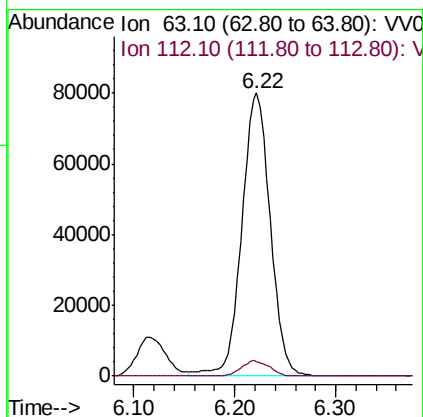
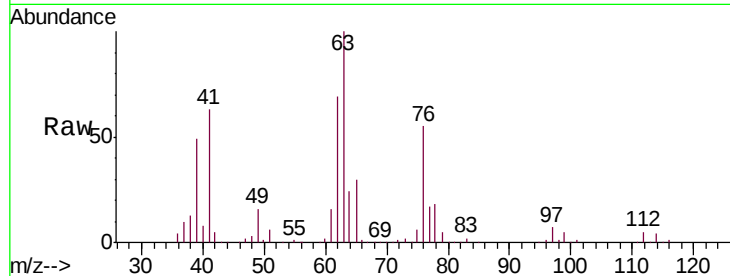




#37  
 1,2-Dichloropropane  
 Concen: 17.845 ug/L  
 RT: 6.22 min Scan# 1596  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

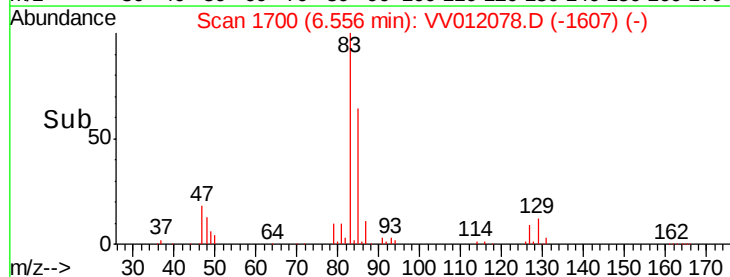
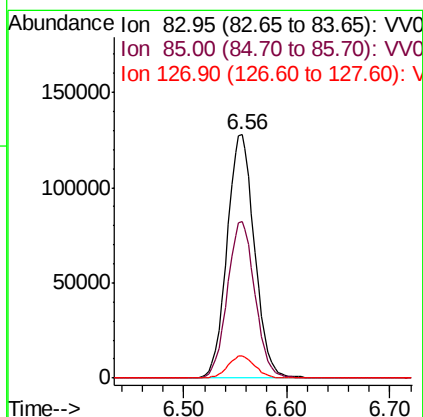
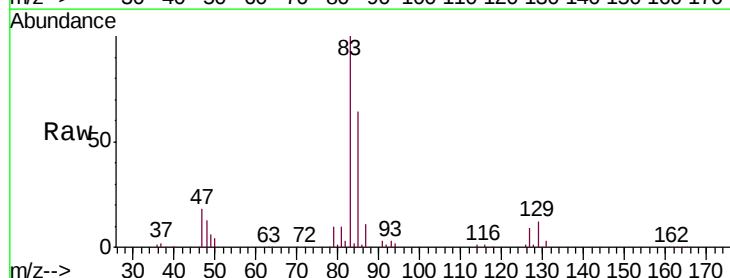
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

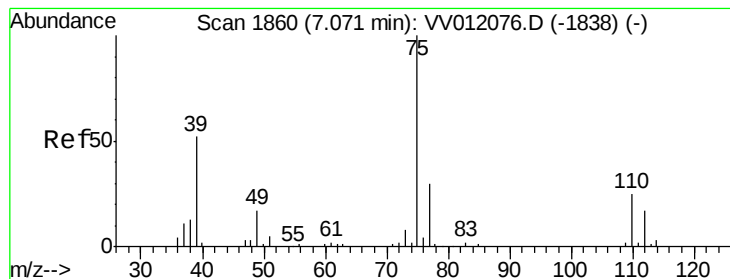
Tgt Ion: 63 Resp: 154781  
 Ion Ratio Lower Upper  
 63 100  
 112 5.5 4.7 7.1



#38  
 Bromodichloromethane  
 Concen: 20.114 ug/L  
 RT: 6.56 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Tgt Ion: 83 Resp: 237002  
 Ion Ratio Lower Upper  
 83 100  
 85 64.3 46.2 85.8  
 127 9.1 7.2 10.8



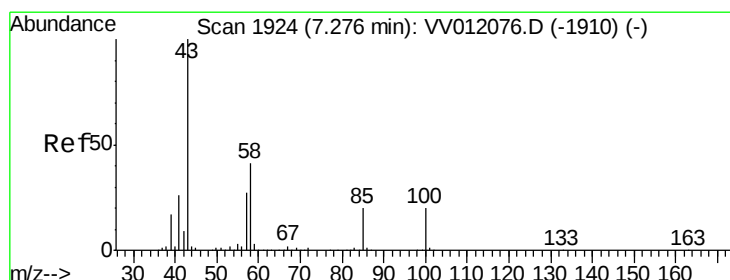
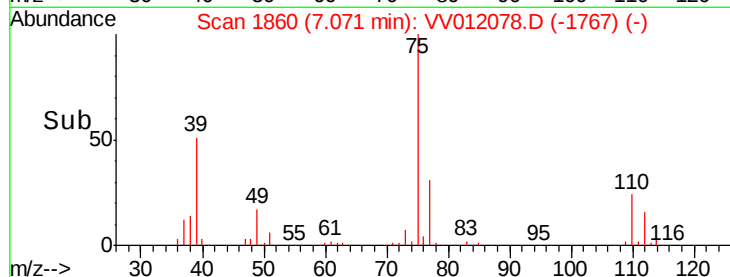
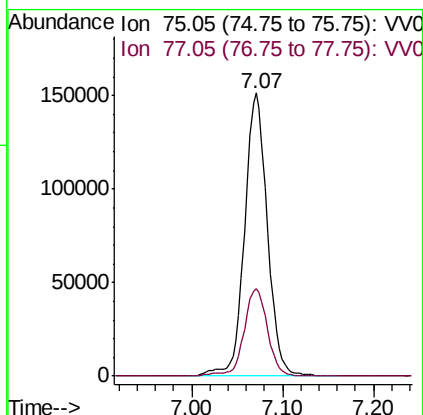
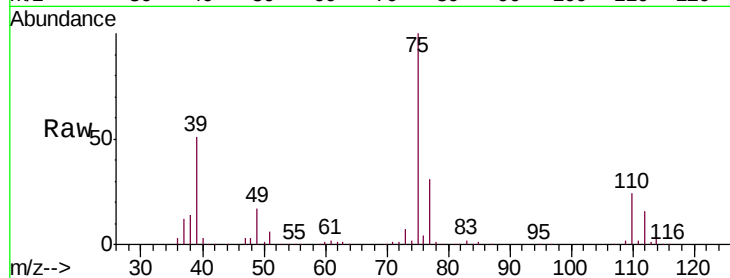


#39

cis-1,3-Dichloropropene  
Concen: 20.297 ug/L  
RT: 7.07 min Scan# 1860  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

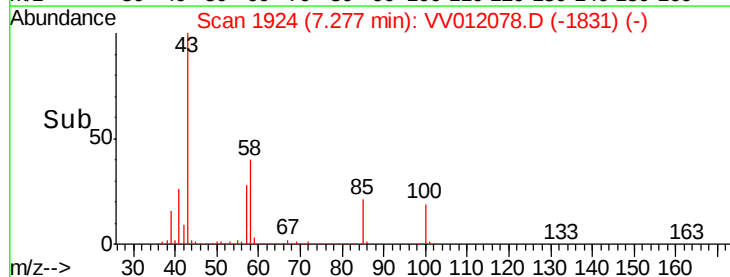
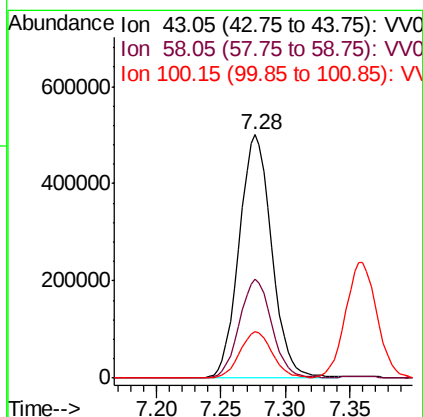
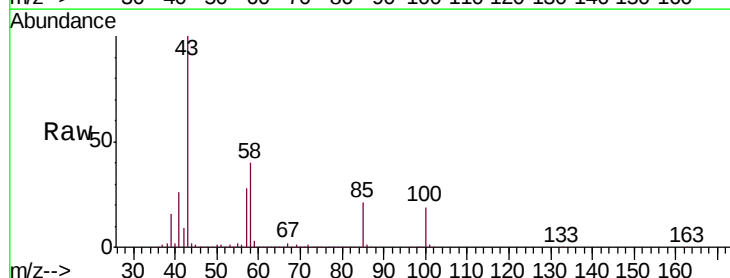
Tgt Ion: 75 Resp: 263551  
Ion Ratio Lower Upper  
75 100  
77 31.1 21.3 39.5

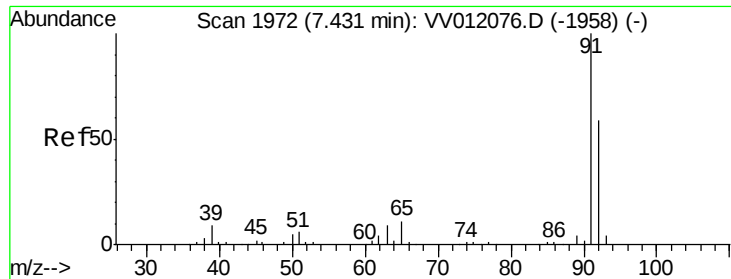


#40

4-Methyl-2-pentanone  
Concen: 183.876 ug/L  
RT: 7.28 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion: 43 Resp: 882290  
Ion Ratio Lower Upper  
43 100  
58 40.5 31.8 47.6  
100 19.0 15.0 22.4





#42

Toluene

Concen: 19.474 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

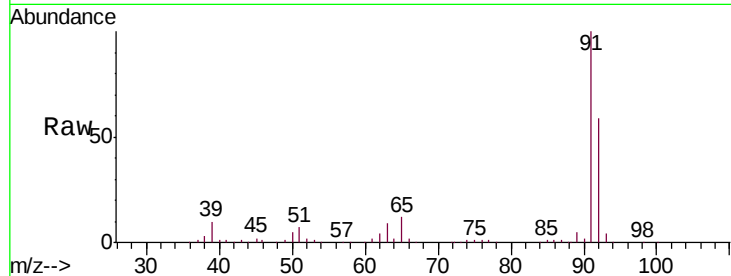
VSTD02031

Tgt Ion: 91 Resp: 762694

Ion Ratio Lower Upper

91 100

92 58.8 41.6 77.2



Abundance Ion 91.15 (90.85 to 91.85): VV012076.D (-1958) (-)

Ion 92.15 (91.85 to 92.85): VV012076.D (-1958) (-)

7.43

500000

400000

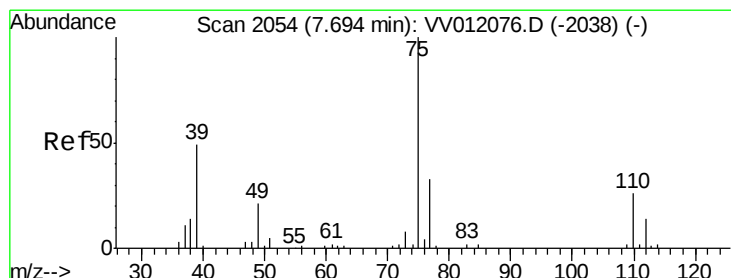
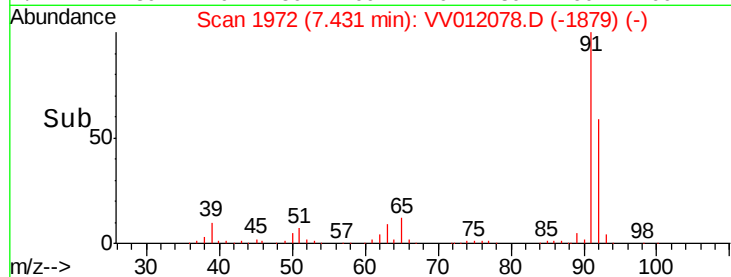
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 20.750 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012078.D

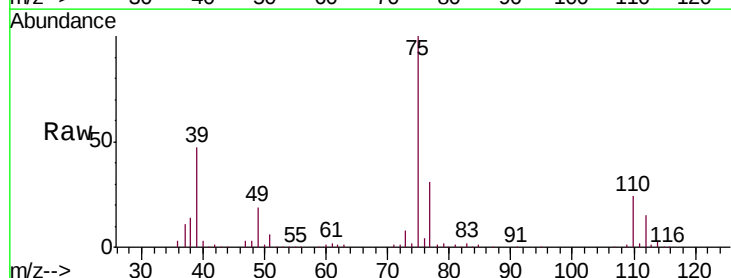
Acq: 30 Jul 2019 18:54

Tgt Ion: 75 Resp: 214954

Ion Ratio Lower Upper

75 100

77 31.2 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV012076.D (-2038) (-)

Ion 77.05 (76.75 to 77.75): VV012076.D (-2038) (-)

7.69

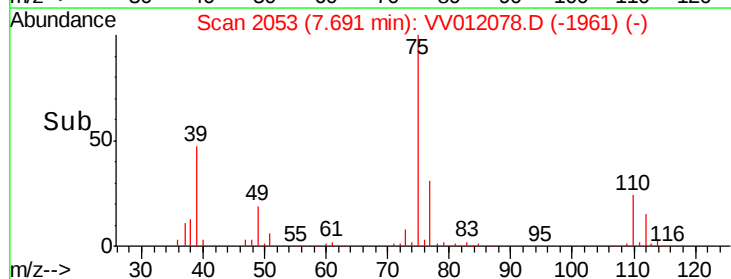
150000

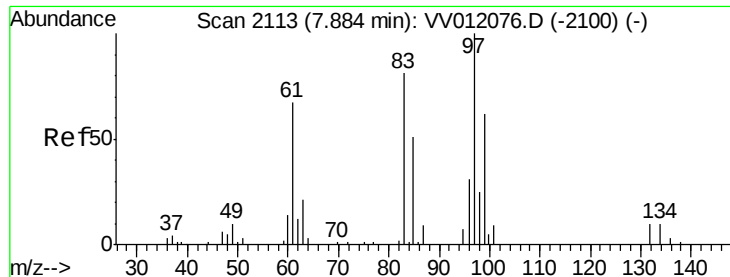
100000

50000

0

Time-->

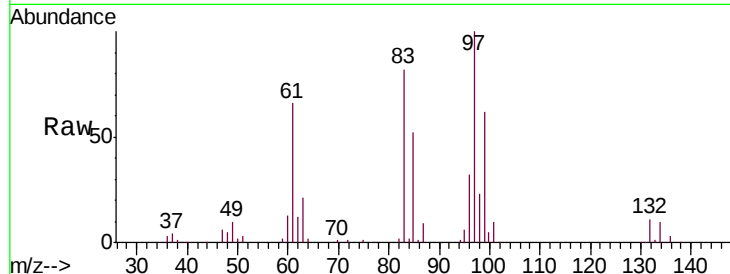




#45  
 1,1,2-Trichloroethane  
 Concen: 18.970 ug/L  
 RT: 7.88 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 115049 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 62.0  | 43.3  | 80.3   |
| 83       | 81.9  | 56.6  | 105.0  |
| 85       | 51.7  | 35.8  | 66.6   |



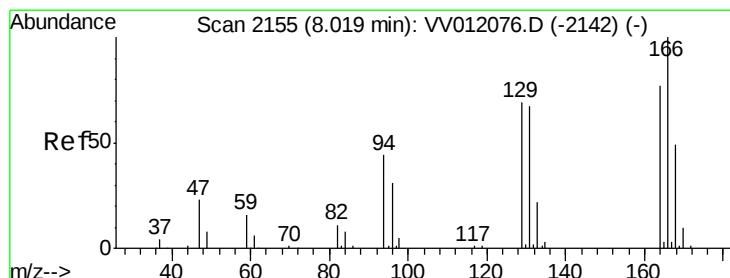
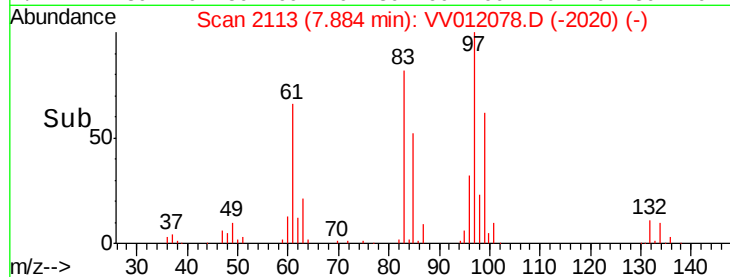
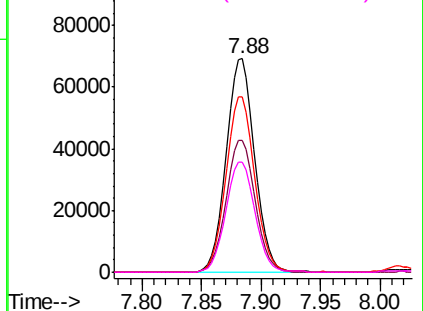
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

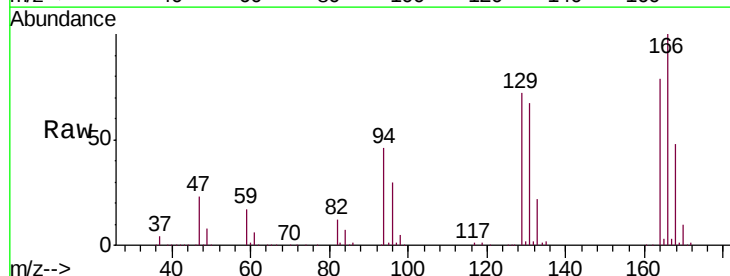
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47  
 Tetrachloroethene  
 Concen: 19.718 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 175389 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 90.7  | 62.5  | 116.1  |
| 131      | 84.9  | 60.9  | 113.1  |
| 166      | 126.6 | 90.4  | 168.0  |



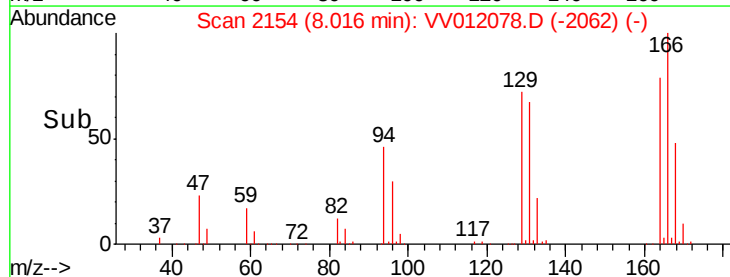
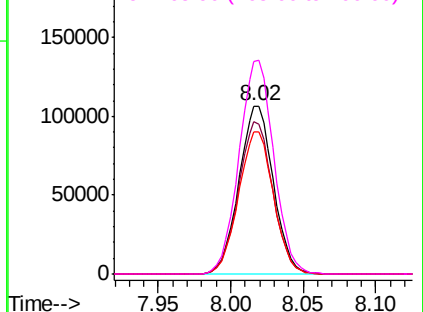
Abundance

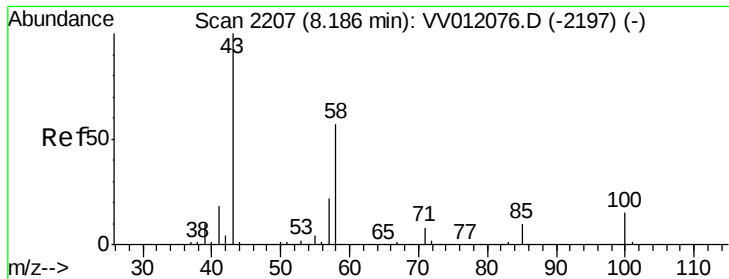
Ion 163.90 (163.60 to 164.60): V

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

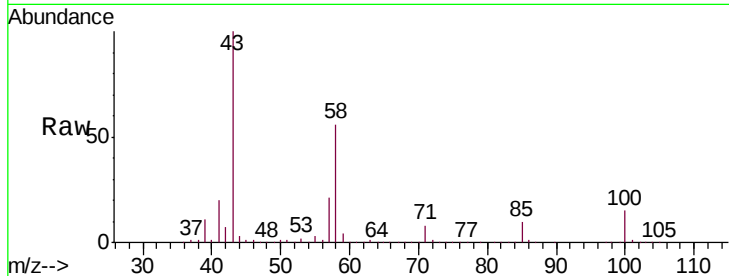




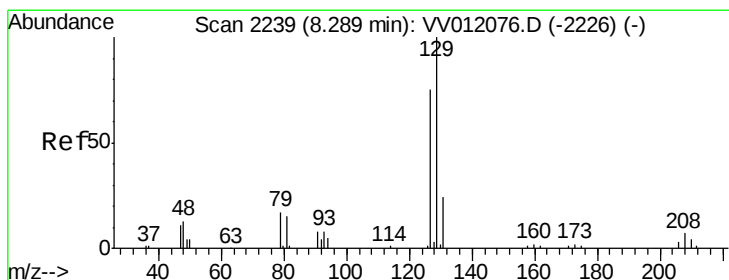
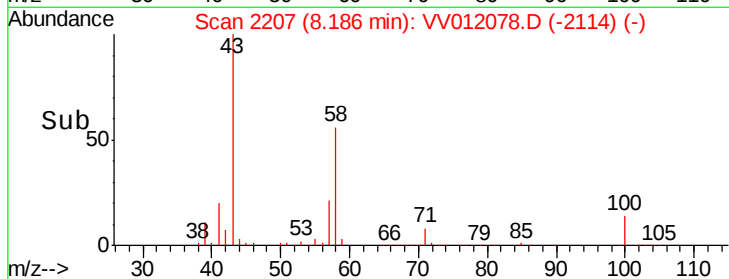
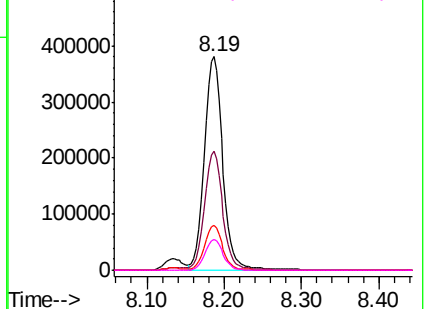
#48  
2-Hexanone  
Concen: 188.783 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

Tgt Ion: 43 Resp: 631170  
Ion Ratio Lower Upper  
43 100  
58 55.3 45.7 68.5  
57 20.7 17.0 25.4  
100 14.5 12.6 18.8

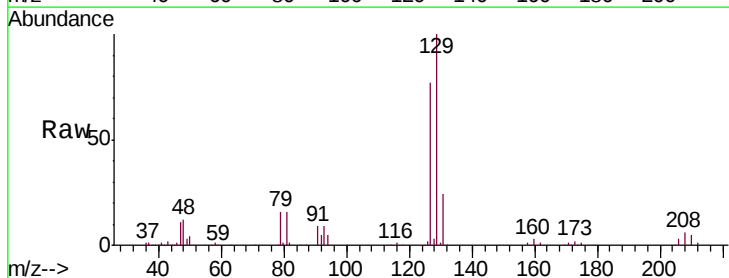


Abundance Ion 43.05 (42.75 to 43.75): VV012078.D (-2197) (-)  
Ion 58.05 (57.75 to 58.75): VV012078.D (-2197) (-)  
Ion 57.20 (56.90 to 57.90): VV012078.D (-2197) (-)  
Ion 100.15 (99.85 to 100.85): VV012078.D (-2197) (-)

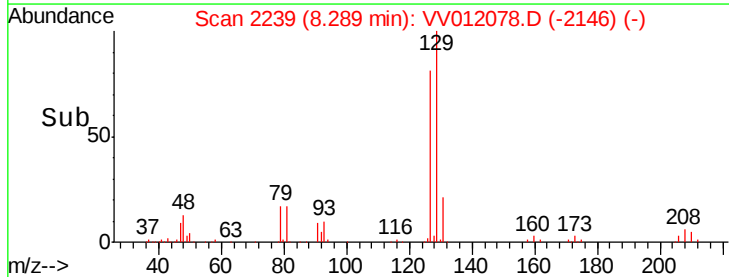
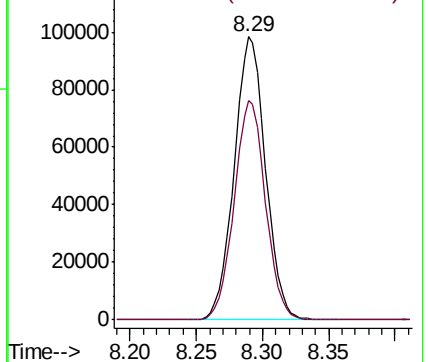


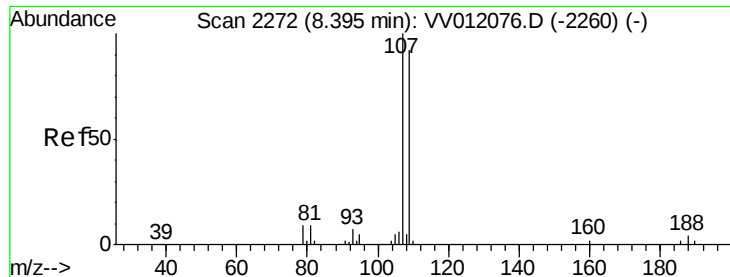
#49  
Dibromochloromethane  
Concen: 21.412 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion: 129 Resp: 161559  
Ion Ratio Lower Upper  
129 100  
127 77.5 52.8 98.2



Abundance Ion 128.95 (128.65 to 129.65): VV012078.D (-2226) (-)  
Ion 126.90 (126.60 to 127.60): VV012078.D (-2226) (-)

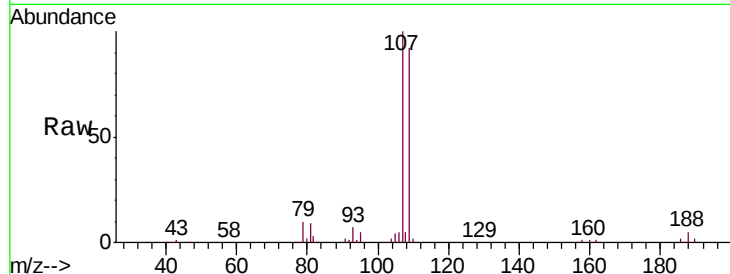




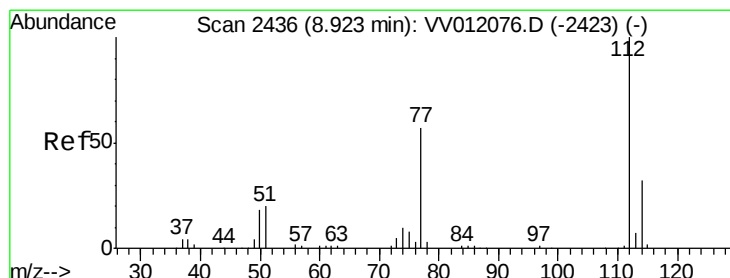
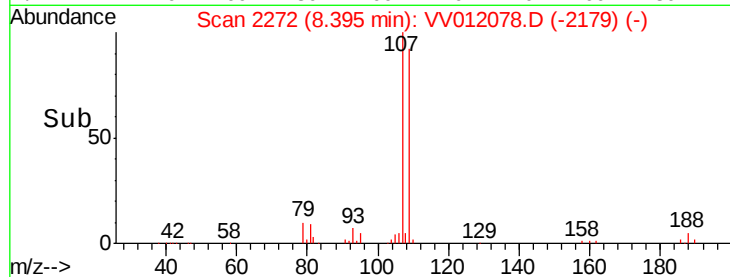
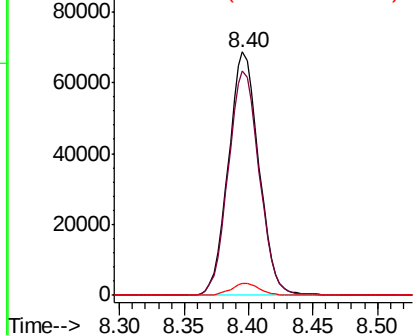
#50  
1,2-Dibromoethane  
Concen: 19.601 ug/L  
RT: 8.40 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

Tgt Ion:107 Resp: 112679  
Ion Ratio Lower Upper  
107 100  
109 92.3 64.7 120.1  
188 4.9 3.4 5.0

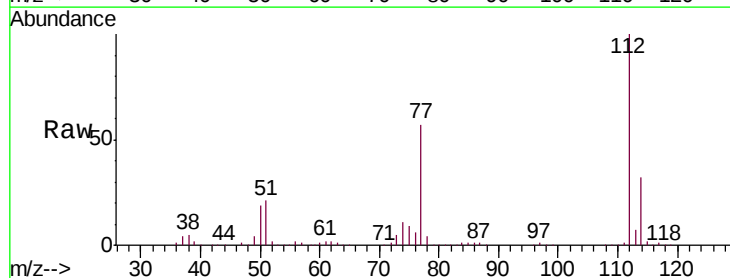


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

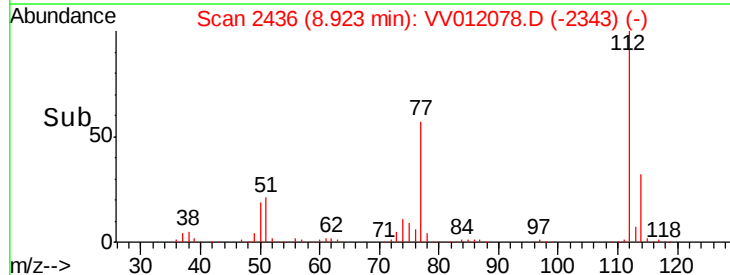
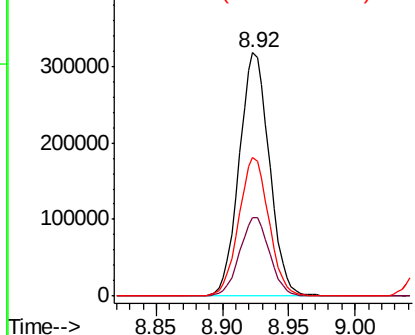


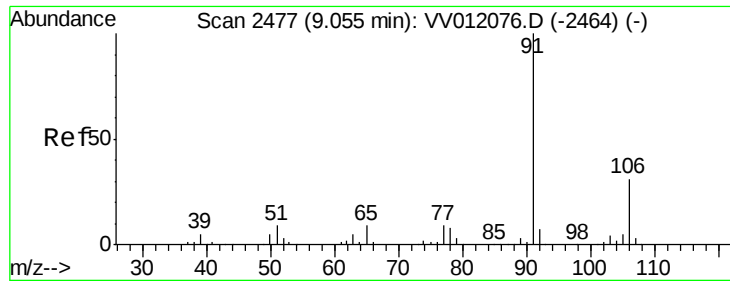
#51  
Chlorobenzene  
Concen: 19.478 ug/L  
RT: 8.92 min Scan# 2436  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion:112 Resp: 502974  
Ion Ratio Lower Upper  
112 100  
114 32.4 22.4 41.6  
77 57.2 46.1 69.1



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 20.149 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

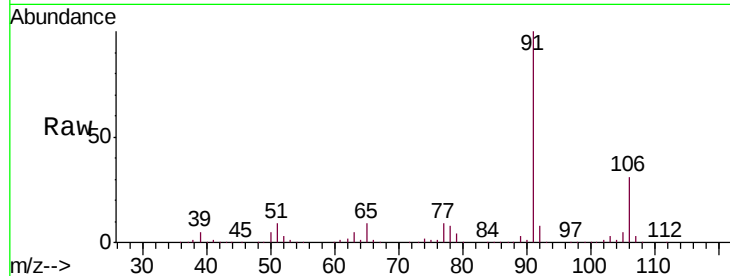
VSTD02031

Tgt Ion: 91 Resp: 902636

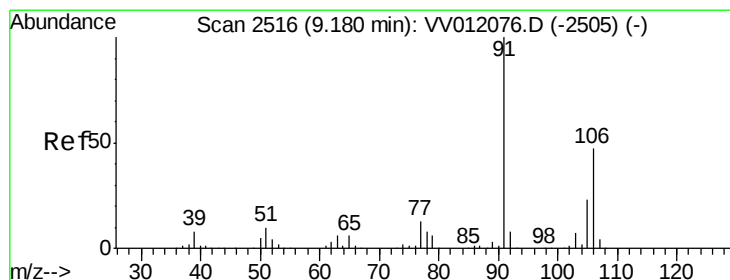
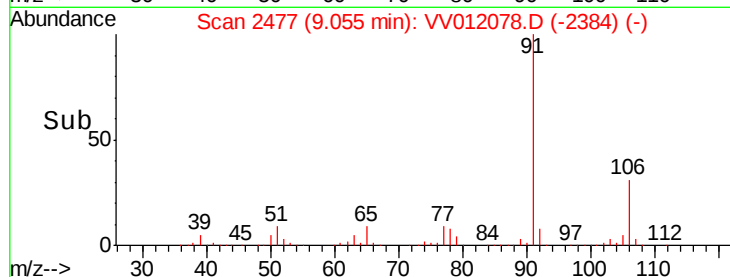
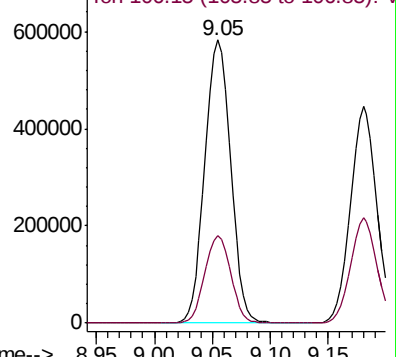
Ion Ratio Lower Upper

91 100

106 30.7 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012076.D (-2464) (-)



#53

m,p-xylene

Concen: 20.285 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012078.D

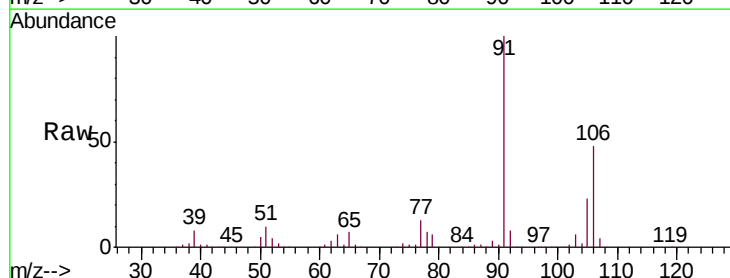
Acq: 30 Jul 2019 18:54

Tgt Ion: 106 Resp: 344659

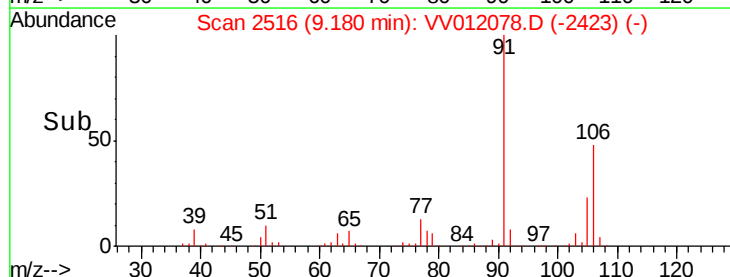
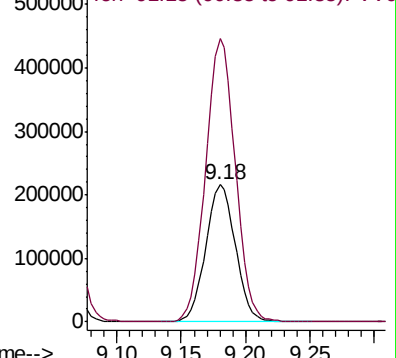
Ion Ratio Lower Upper

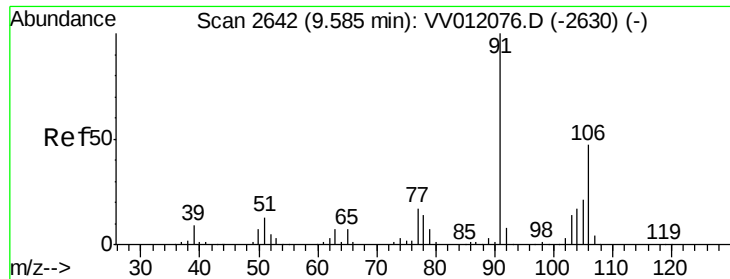
106 100

91 206.6 148.7 276.3



Abundance Ion 106.15 (105.85 to 106.85): VV012076.D (-2505) (-)

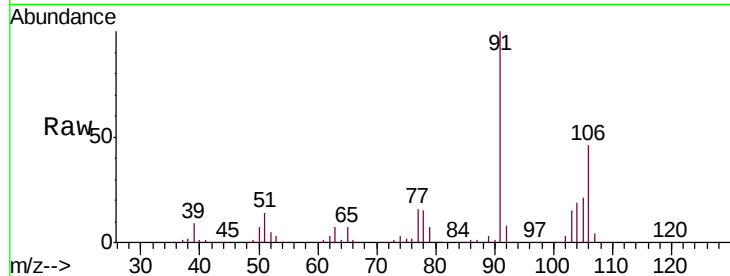




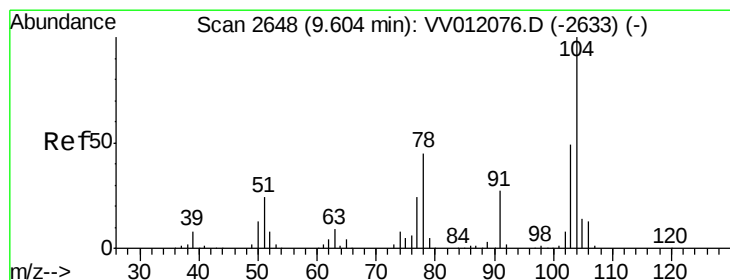
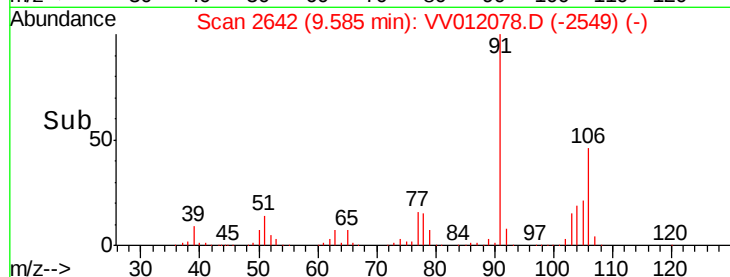
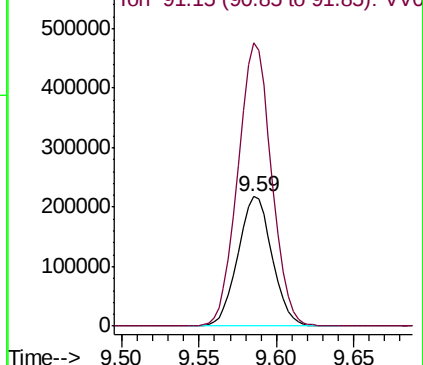
#54  
o-xylene  
Concen: 20.632 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. 0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02031

Tgt Ion:106 Resp: 334768  
Ion Ratio Lower Upper  
106 100  
91 218.2 147.7 274.3

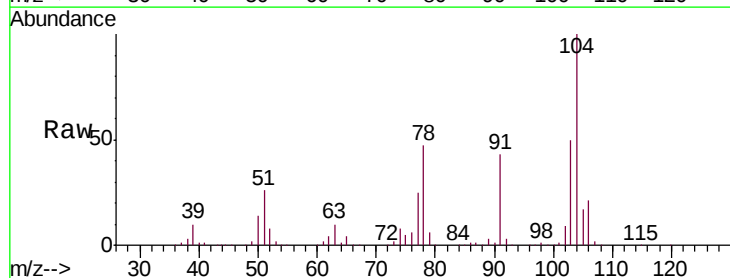


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

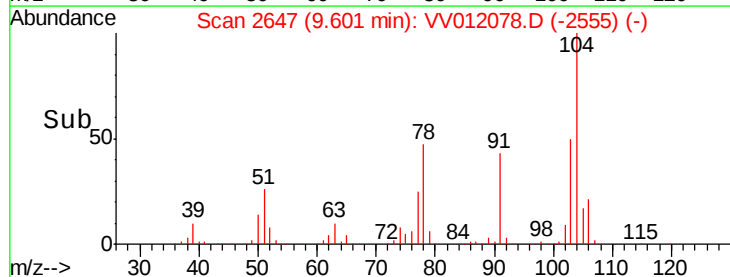
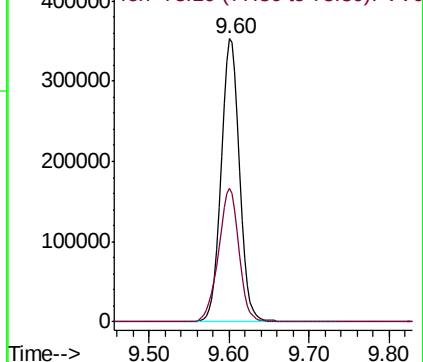


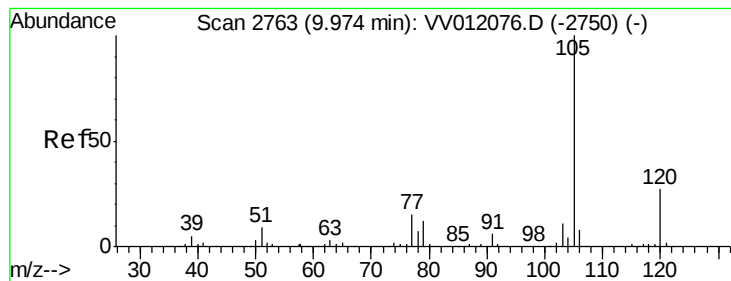
#55  
Styrene  
Concen: 20.731 ug/L  
RT: 9.60 min Scan# 2647  
Delta R.T. -0.00 min  
Lab File: VV012078.D  
Acq: 30 Jul 2019 18:54

Tgt Ion:104 Resp: 564655  
Ion Ratio Lower Upper  
104 100  
78 47.2 31.7 58.9



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





#56

Isopropylbenzene

Concen: 20.542 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02031

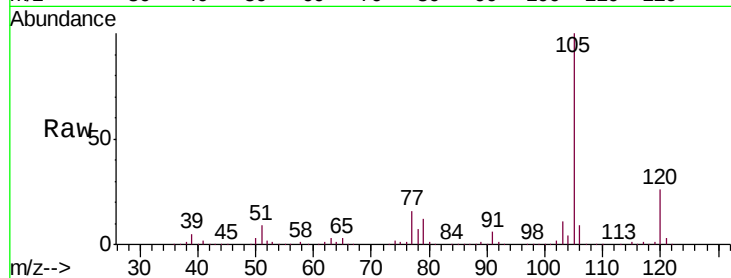
Tgt Ion: 105 Resp: 928062

Ion Ratio Lower Upper

105 100

120 26.7 21.8 32.8

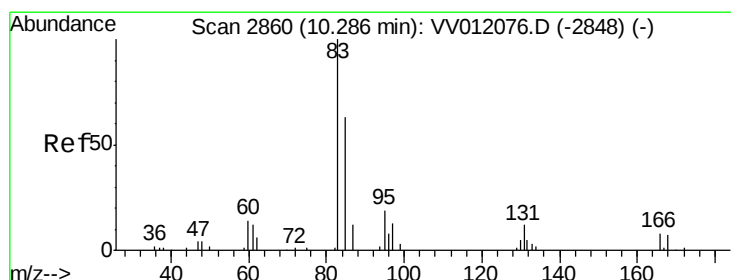
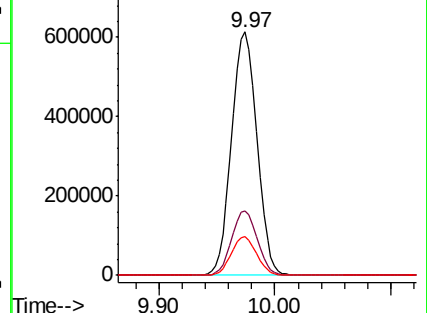
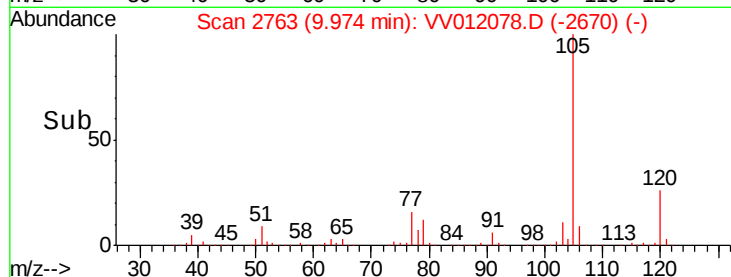
77 15.7 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 19.288 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

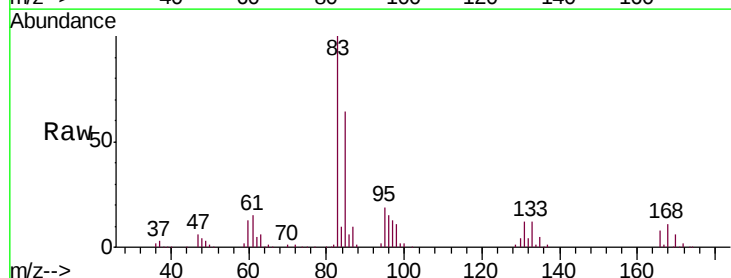
Tgt Ion: 83 Resp: 127391

Ion Ratio Lower Upper

83 100

85 64.0 45.1 83.7

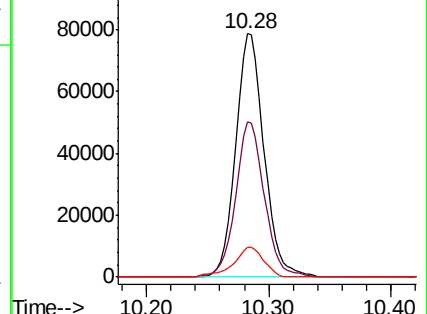
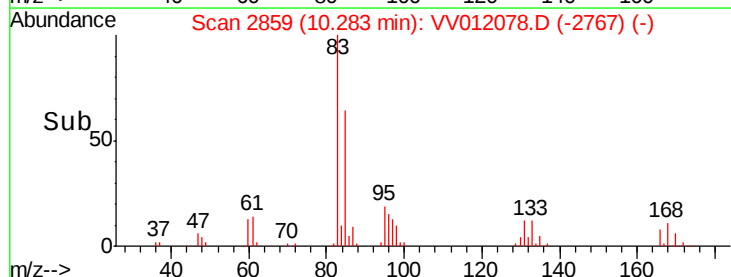
131 12.2 10.3 15.5

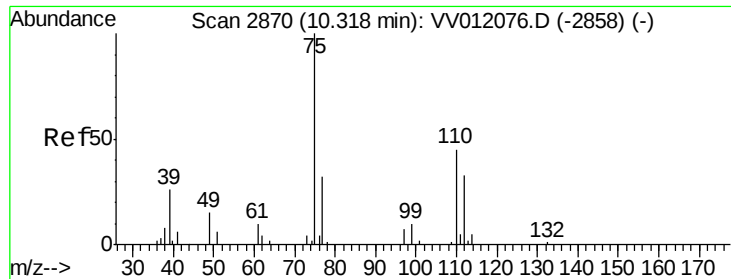


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

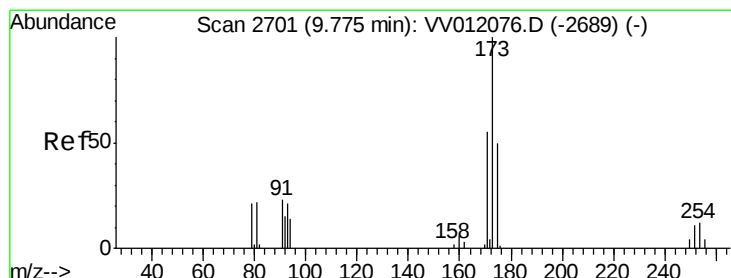
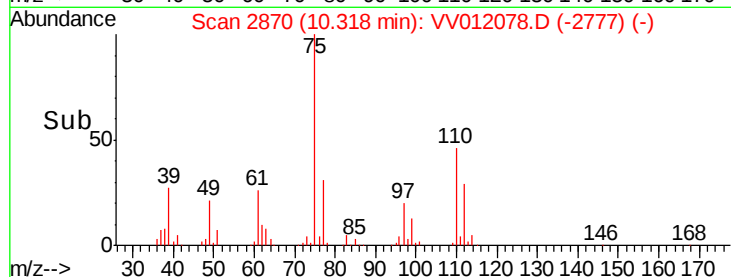
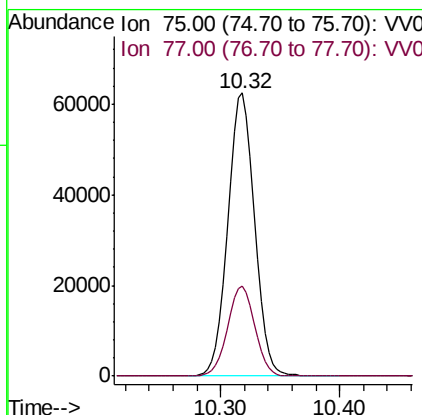
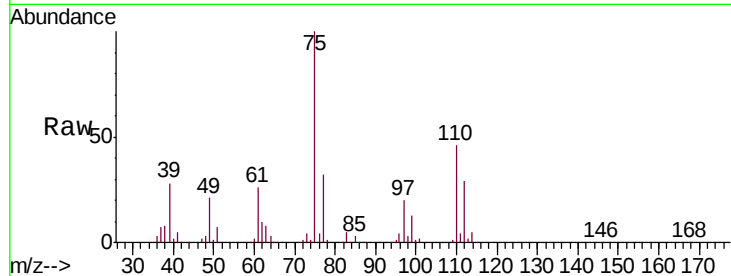




#59  
 1,2,3-Trichloropropane  
 Concen: 19.165 ug/L  
 RT: 10.32 min Scan# 2870  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

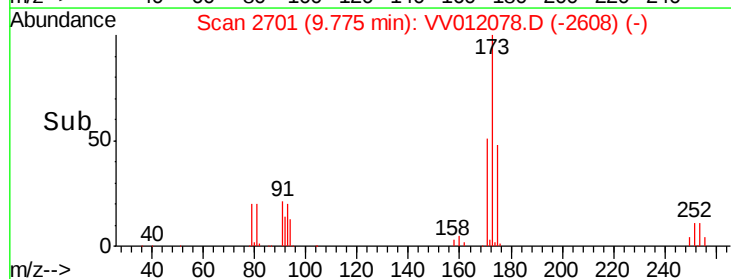
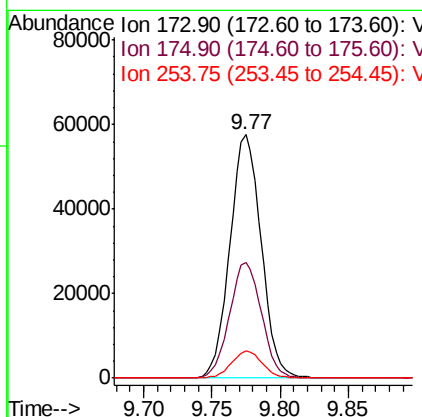
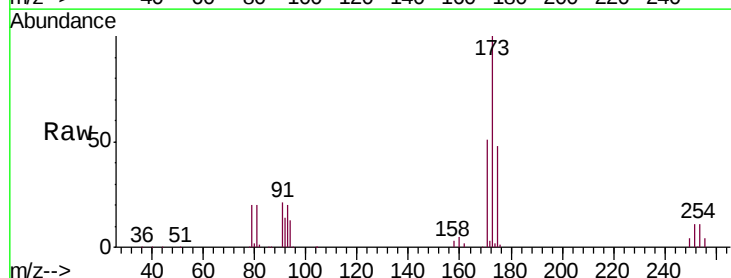
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD02031

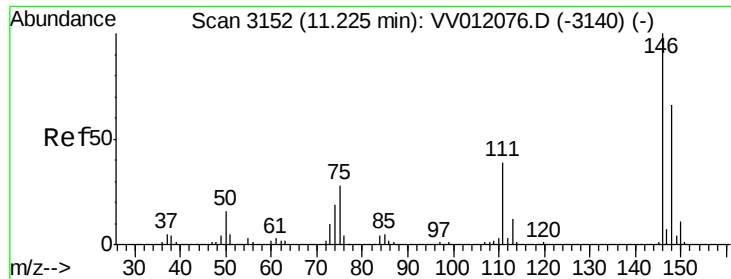
Tgt Ion: 75 Resp: 97234  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 26.9 40.3



#61  
 Bromoform  
 Concen: 20.859 ug/L  
 RT: 9.77 min Scan# 2701  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Tgt Ion: 173 Resp: 91815  
 Ion Ratio Lower Upper  
 173 100  
 175 48.5 39.4 59.2  
 254 10.9 8.7 13.1





#62

1,3-Dichlorobenzene

Concen: 19.126 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02031

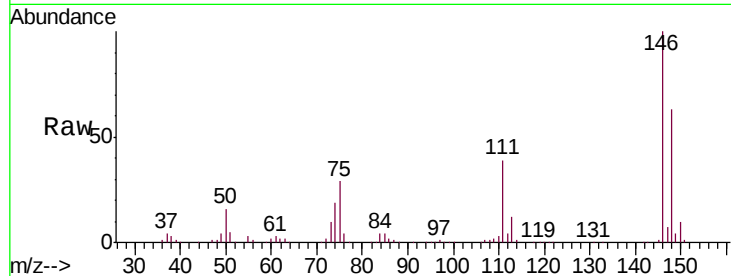
Tgt Ion:146 Resp: 449864

Ion Ratio Lower Upper

146 100

111 38.9 27.2 50.6

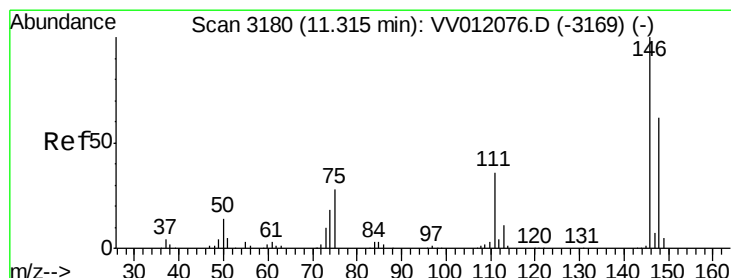
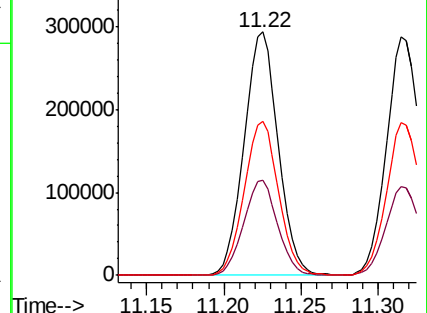
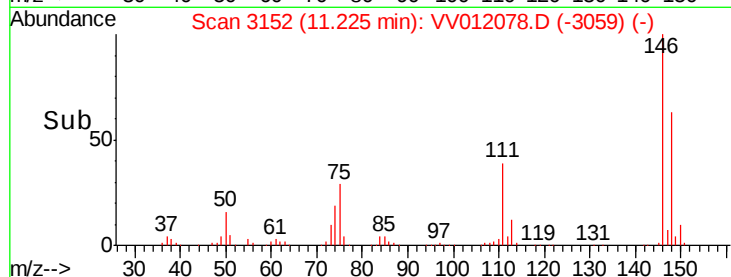
148 63.5 45.9 85.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 18.406 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

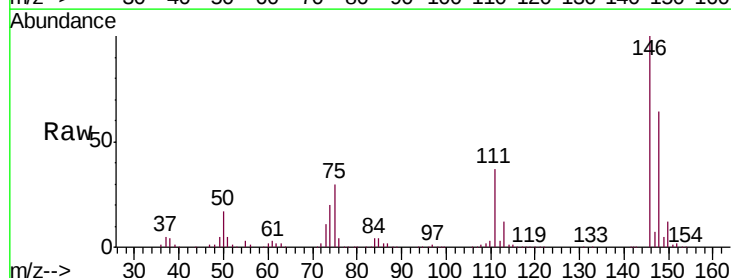
Tgt Ion:146 Resp: 445429

Ion Ratio Lower Upper

146 100

111 37.3 25.4 47.2

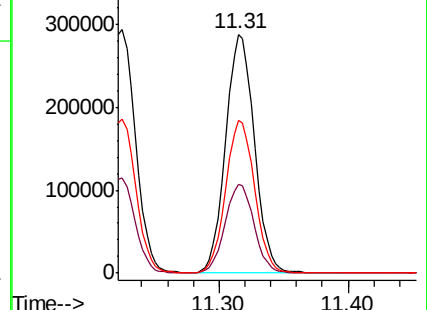
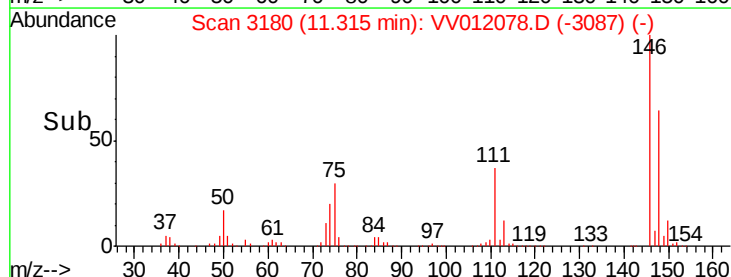
148 64.2 43.5 80.7

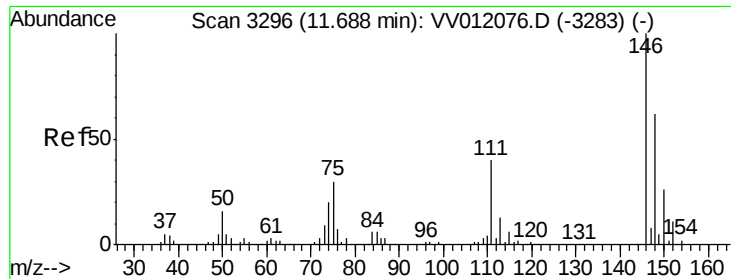


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 18.824 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02031

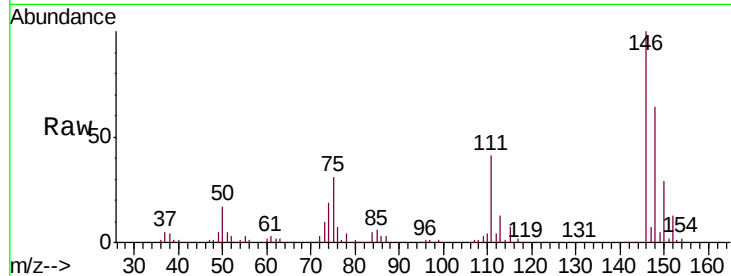
Tgt Ion: 146 Resp: 404876

Ion Ratio Lower Upper

146 100

111 40.7 32.3 48.5

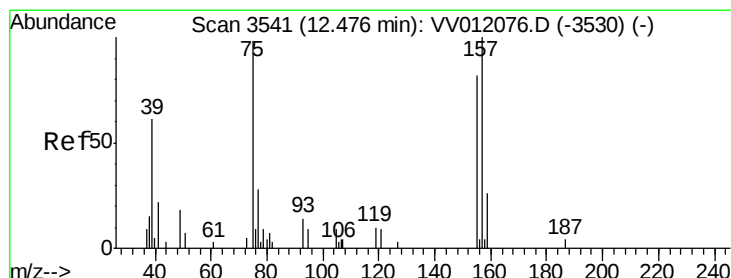
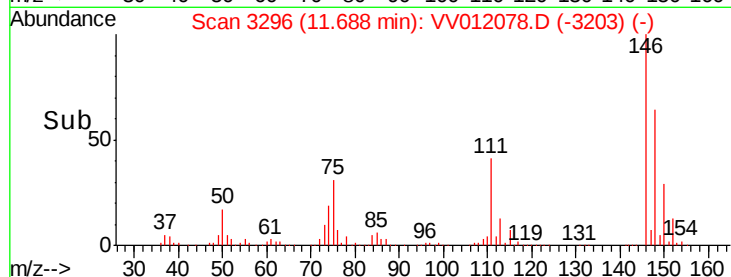
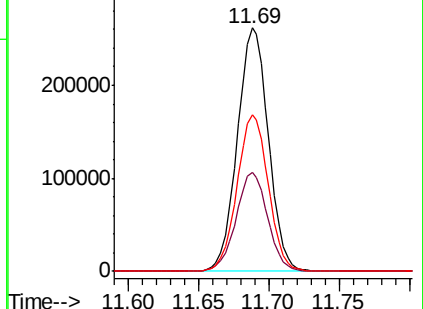
148 64.4 49.9 74.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.842 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

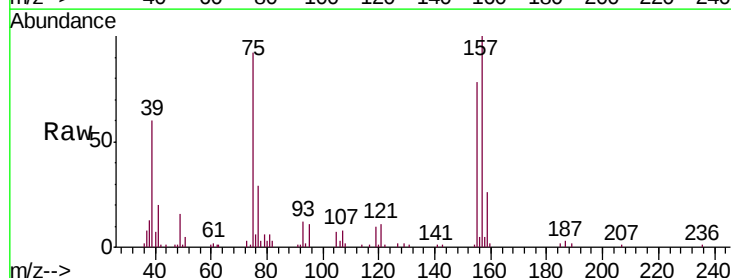
Tgt Ion: 75 Resp: 25150

Ion Ratio Lower Upper

75 100

155 84.4 66.9 100.3

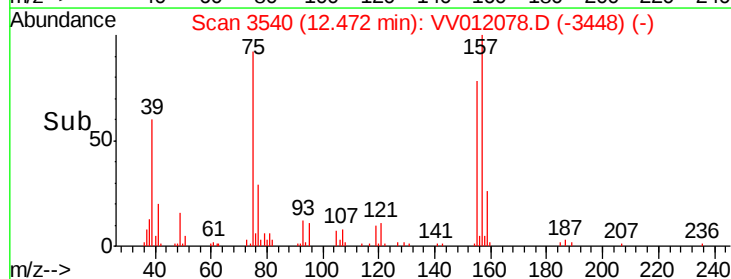
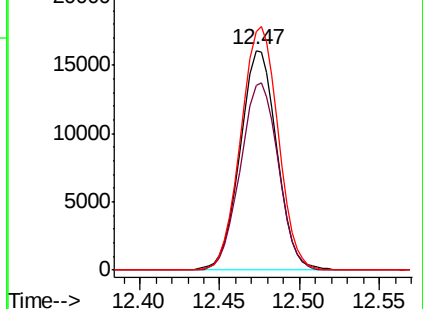
157 108.5 81.8 122.6

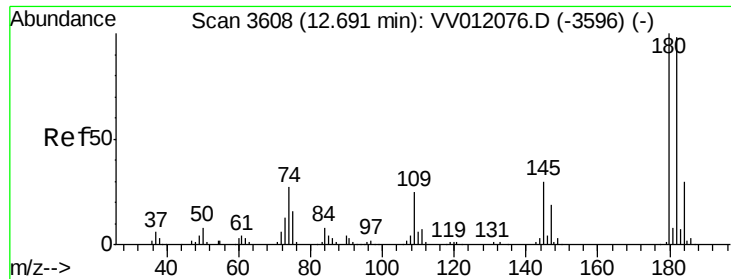


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

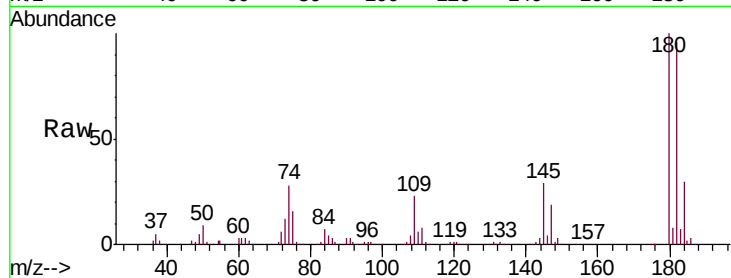




#67  
 1,3,5-Trichlorobenzene  
 Concen: 19.160 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02031

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.7  | 76.6  | 115.0 |
| 184     | 30.5  | 23.8  | 35.8  |
| 145     | 29.2  | 22.6  | 33.8  |



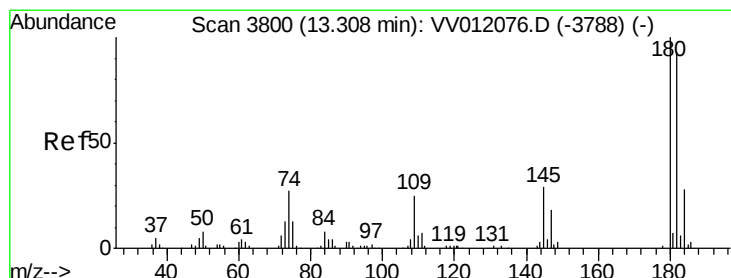
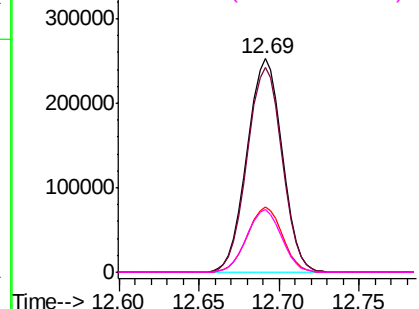
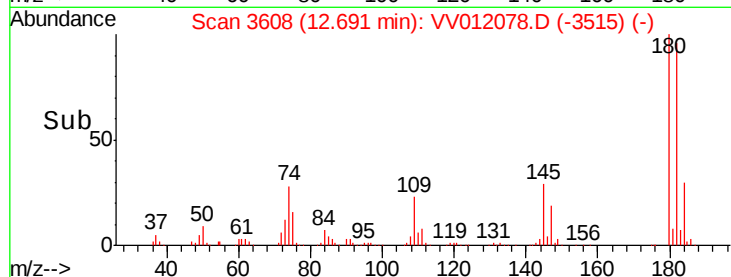
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

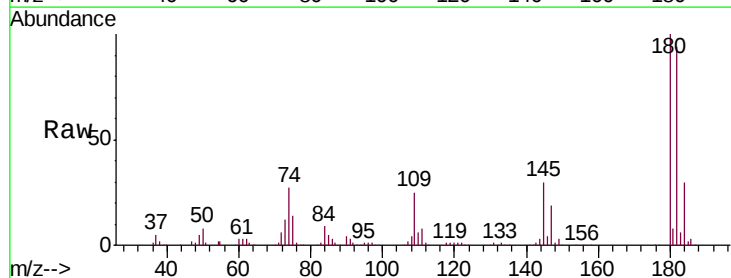
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 20.101 ug/L  
 RT: 13.31 min Scan# 3800  
 Delta R.T. 0.00 min  
 Lab File: VV012078.D  
 Acq: 30 Jul 2019 18:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 75.4  | 113.0 |
| 145     | 29.9  | 23.5  | 35.3  |

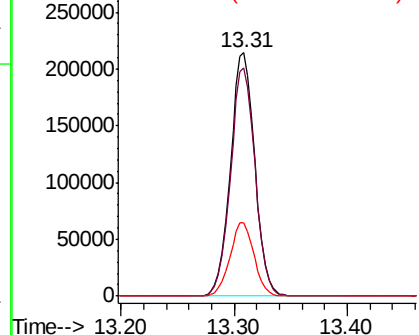
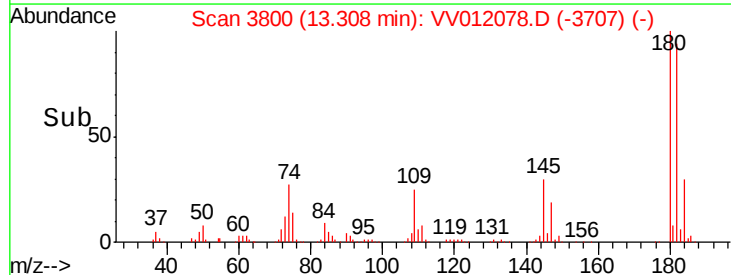


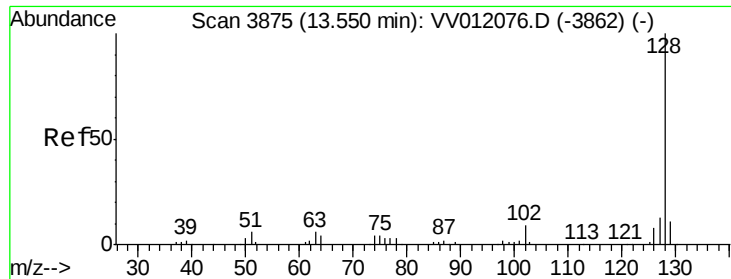
Abundance

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: 20.332 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02031

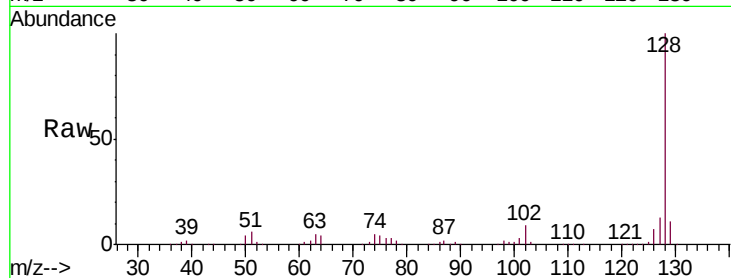
Tgt Ion:128 Resp: 476661

Ion Ratio Lower Upper

128 100

129 10.8 8.4 12.6

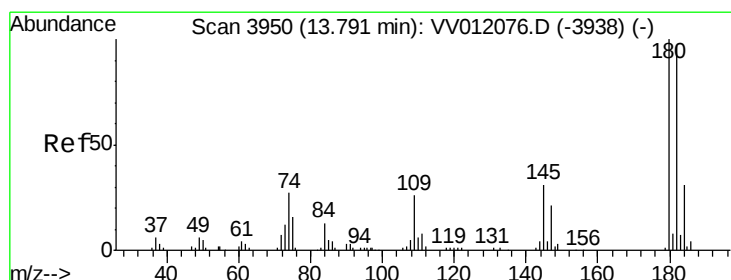
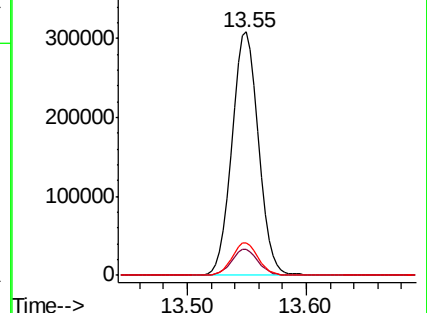
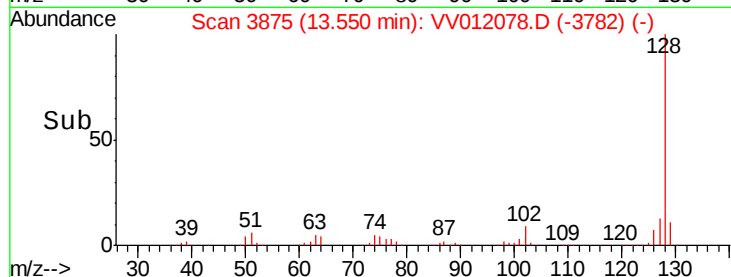
127 13.1 10.0 15.0



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: 19.643 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012078.D

Acq: 30 Jul 2019 18:54

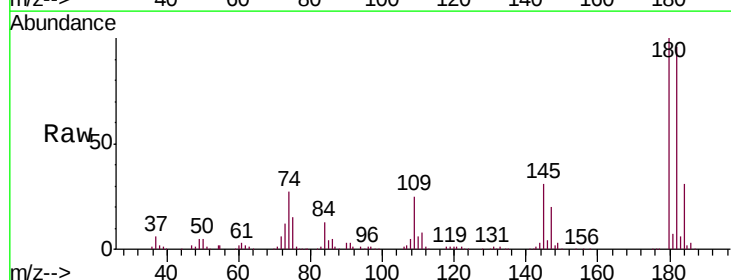
Tgt Ion:180 Resp: 281457

Ion Ratio Lower Upper

180 100

182 96.9 76.5 114.7

145 30.9 24.4 36.6



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

