

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042220\  
 Data File : VV015649.D  
 Acq On : 23 Apr 2020 02:15  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 23 03:14:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 23 03:05:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 129516   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 121937   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 63517    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 33564    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 34200    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.80% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 76239    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 103.00% |
| 20) 2-Butanone-d5              | 3.91   | 46    | 116892   | 53.79    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.58% |
| 24) Chloroform-d               | 4.38   | 84    | 84478    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.20% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 46752    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.00% |
| 32) Benzene-d6                 | 5.07   | 84    | 155880   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.20% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 49082    | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 105.60% |
| 41) Toluene-d8                 | 7.34   | 98    | 147305   | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.60% |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 17099    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.00%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 94860    | 54.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 108.18% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 36757    | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 54621    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 56554  | 5.098  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 47277  | 4.926  | ug/L 97  |
| 5) Vinyl chloride              | 1.32 | 62  | 51861  | 5.060  | ug/L 96  |
| 6) Bromomethane                | 1.53 | 94  | 14496  | 3.294  | ug/L 96  |
| 8) Chloroethane                | 1.59 | 64  | 33457  | 4.970  | ug/L 95  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 76420  | 5.312  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 42285  | 5.196  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 38897  | 5.160  | ug/L 94  |
| 13) Acetone                    | 2.19 | 43  | 73252  | 48.540 | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 104492 | 4.904  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 19080  | 5.316  | ug/L 98  |
| 16) Methylene chloride         | 2.52 | 84  | 47111  | 5.062  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 110153 | 5.206  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 44046  | 5.219  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 86314  | 5.208  | ug/L 99  |
| 21) 2-Butanone                 | 3.99 | 43  | 118754 | 51.017 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 46796  | 5.014  | ug/L 95  |

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 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 23 03:14:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 23 03:05:46 2020  
 Response via : Initial Calibration

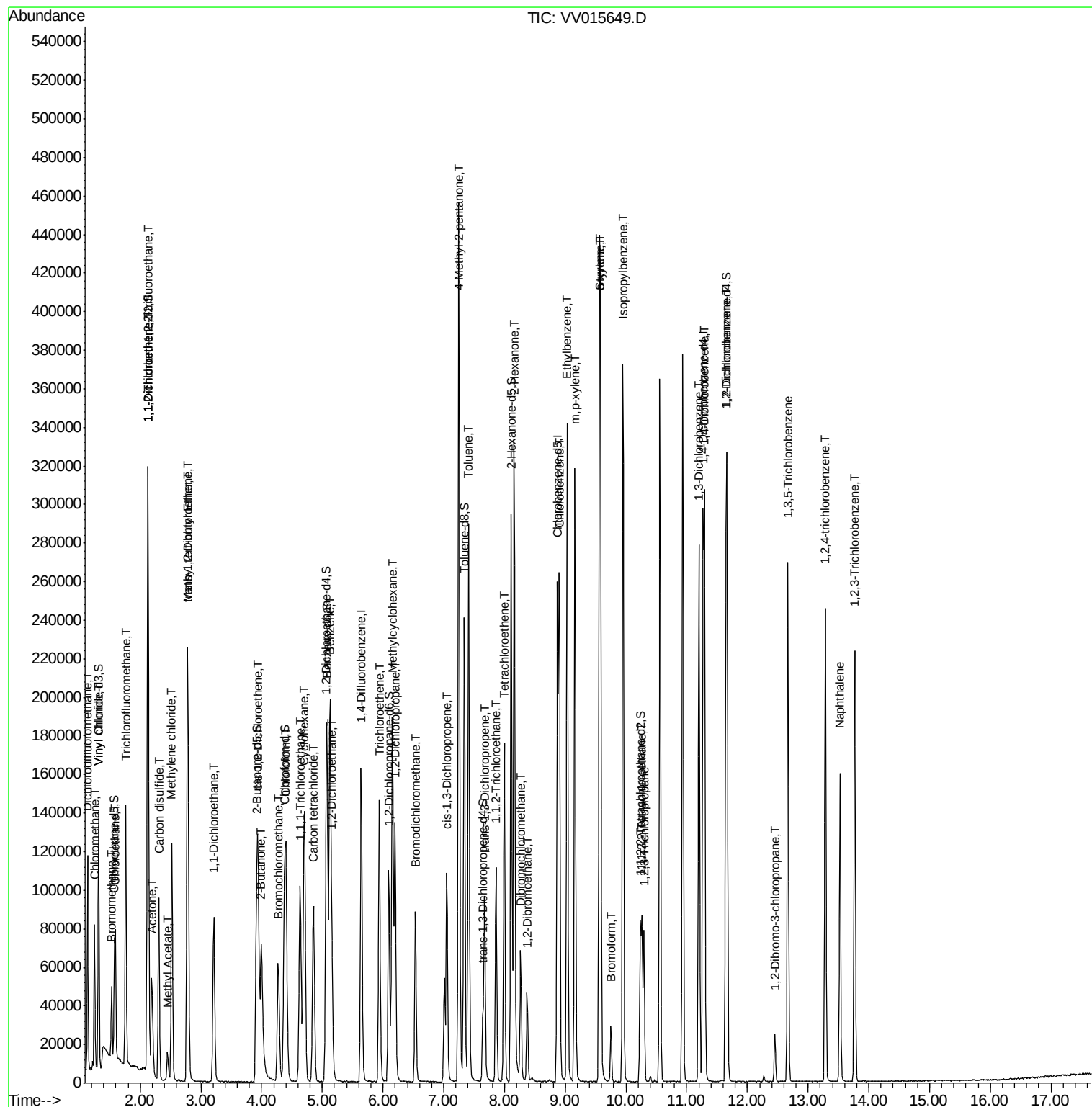
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 19917    | 5.225  | uq/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 92848    | 5.277  | uq/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 60704    | 5.252  | uq/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.64  | 97   | 80665    | 5.216  | uq/L  | 99       |
| 30) Cyclohexane                 | 4.70  | 56   | 75819    | 5.132  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 64850    | 5.064  | uq/L  | 97       |
| 33) Benzene                     | 5.13  | 78   | 183295   | 5.261  | uq/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 49616    | 5.157  | uq/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 73360    | 4.968  | uq/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 47633    | 5.379  | uq/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 56659    | 5.039  | uq/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 59342    | 4.808  | uq/L  | 95       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 301163   | 52.402 | uq/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 195373   | 5.249  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 48920    | 4.716  | uq/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 31216    | 5.172  | uq/L  | 99       |
| 47) Tetrachloroethene           | 8.00  | 164  | 34973    | 5.049  | uq/L  | 97       |
| 48) 2-Hexanone                  | 8.16  | 43   | 215549   | 52.594 | uq/L  | 100      |
| 49) Dibromochloromethane        | 8.27  | 129  | 30436    | 4.873  | uq/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 29104    | 5.214  | uq/L  | 97       |
| 51) Chlorobenzene               | 8.90  | 112  | 125382   | 5.142  | uq/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 224008   | 5.200  | uq/L  | 99       |
| 53) m,p-xylene                  | 9.16  | 106  | 83243    | 5.276  | uq/L  | 99       |
| 54) o-xylene                    | 9.57  | 106  | 81075    | 5.310  | uq/L  | 97       |
| 55) Styrene                     | 9.58  | 104  | 136753   | 5.279  | uq/L  | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 222438   | 5.193  | uq/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 37373    | 5.303  | uq/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 29855    | 5.281  | uq/L  | 98       |
| 61) Bromoform                   | 9.75  | 173  | 11861    | 4.524  | uq/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 100396   | 4.994  | uq/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 101279   | 4.996  | uq/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 91912    | 5.055  | uq/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 6109     | 5.157  | uq/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 72269    | 4.865  | uq/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 65674    | 4.803  | uq/L  | 100      |
| 69) Naphthalene                 | 13.52 | 128  | 115514   | 4.720  | uq/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 58542    | 4.851  | uq/L  | 99       |

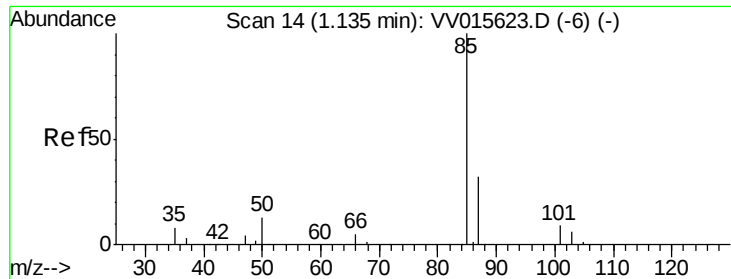
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :

Quant Time: Apr 23 03:14:05 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Apr 23 03:05:46 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.098 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

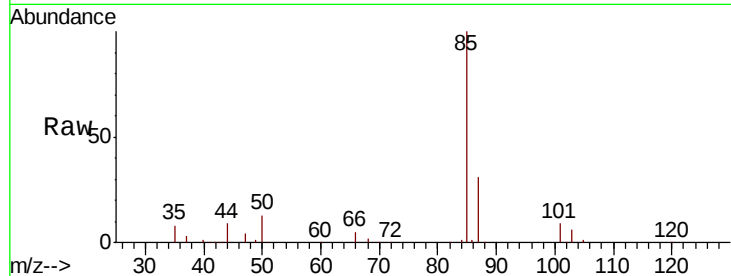
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 56554

Ion Ratio Lower Upper

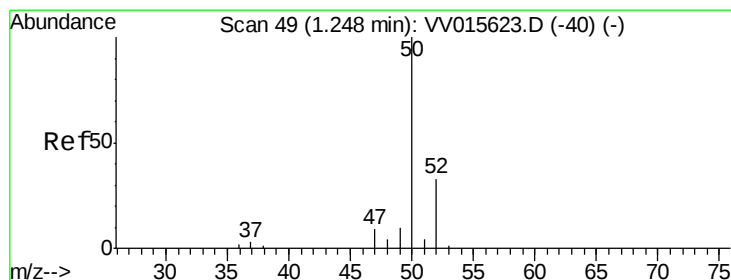
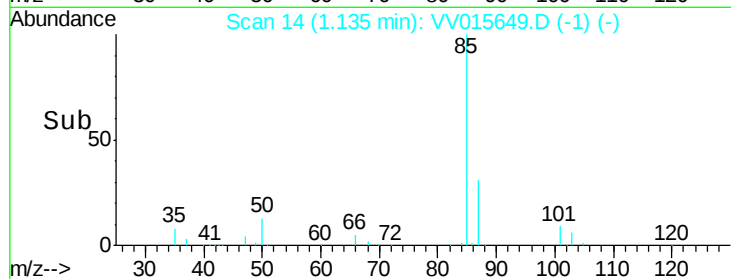
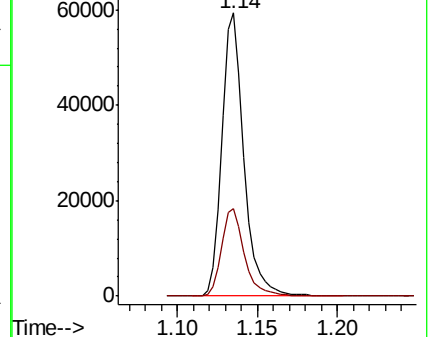
85 100

87 31.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV015623.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015623.D (-6) (-)



#3

Chloromethane

Concen: 4.926 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV015649.D

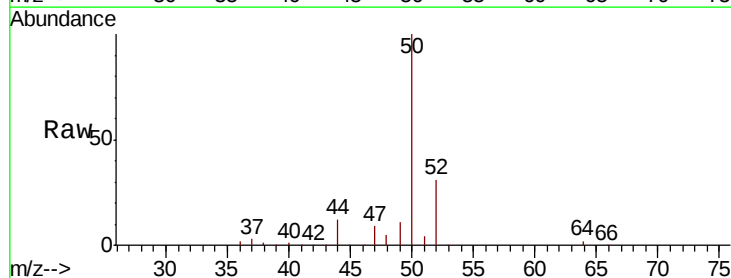
Acq: 23 Apr 2020 02:15

Tgt Ion: 50 Resp: 47277

Ion Ratio Lower Upper

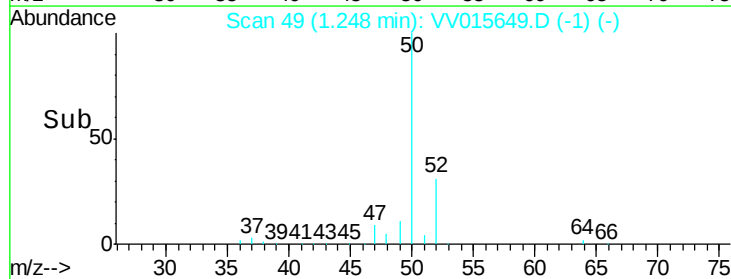
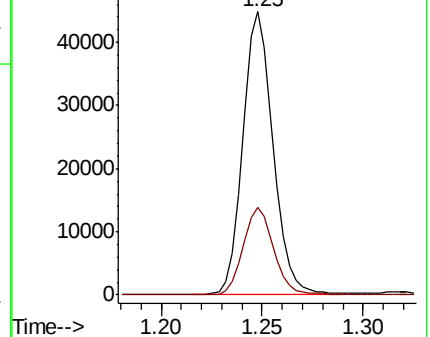
50 100

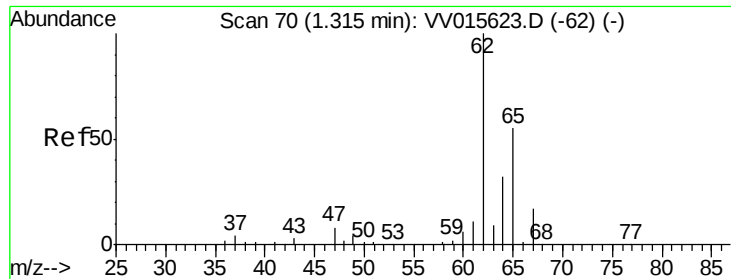
52 30.7 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV015623.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VV015623.D (-40) (-)





#5

Vinyl chloride

Concen: 5.060 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

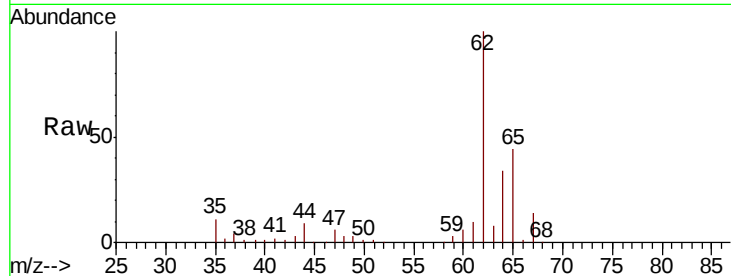
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 51861

Ion Ratio Lower Upper

62 100

64 34.4 22.7 42.1

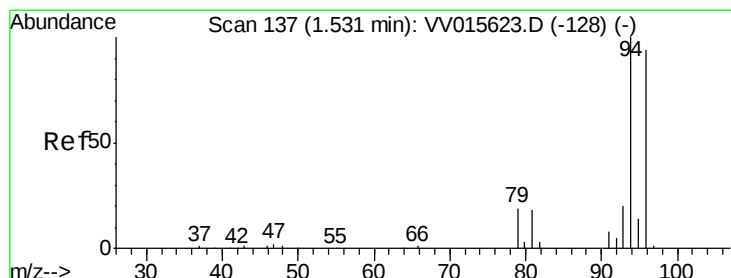
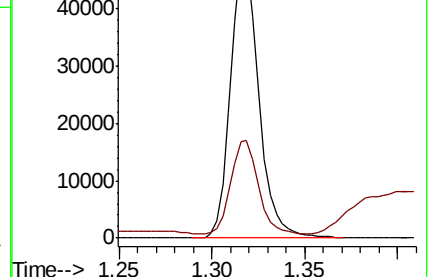
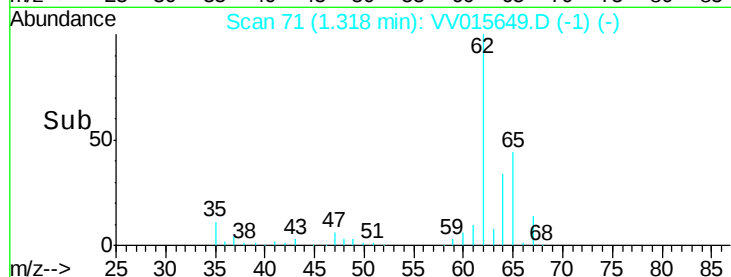


Abundance Ion 62.00 (61.70 to 62.70): VV015623.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV015623.D (-62) (-)

1.32

1.30 1.35



#6

Bromomethane

Concen: 3.294 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV015649.D

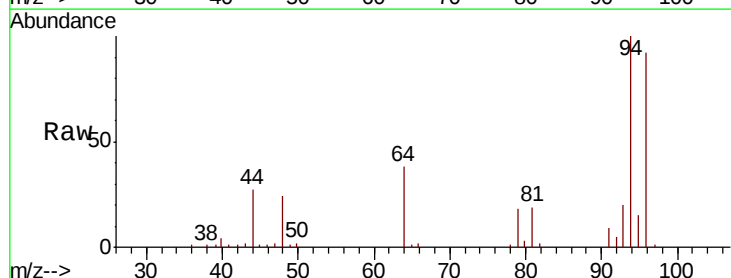
Acq: 23 Apr 2020 02:15

Tgt Ion: 94 Resp: 14496

Ion Ratio Lower Upper

94 100

96 92.1 67.3 125.1

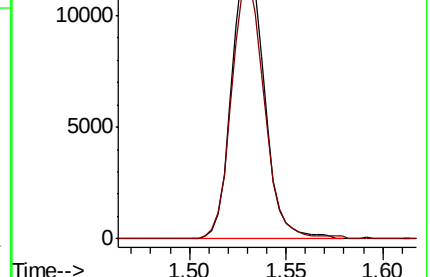
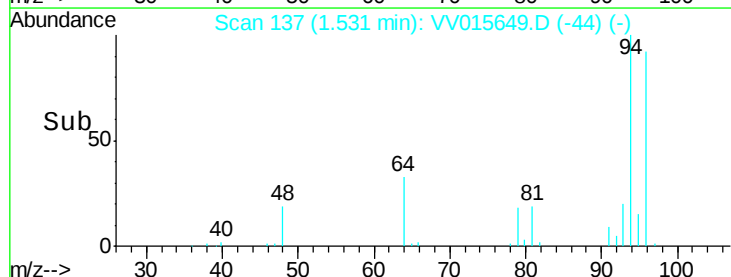


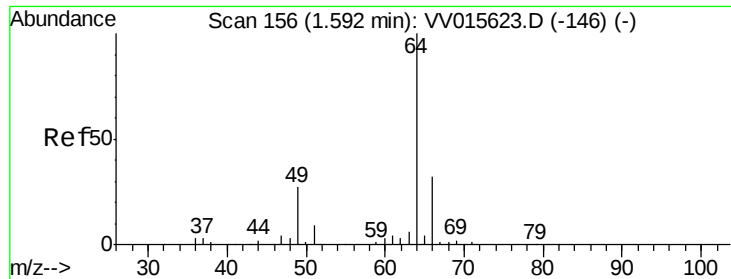
Abundance Ion 94.00 (93.70 to 94.70): VV015623.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV015623.D (-128) (-)

1.53

1.50 1.55 1.60





#8

Chloroethane

Concen: 4.970 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

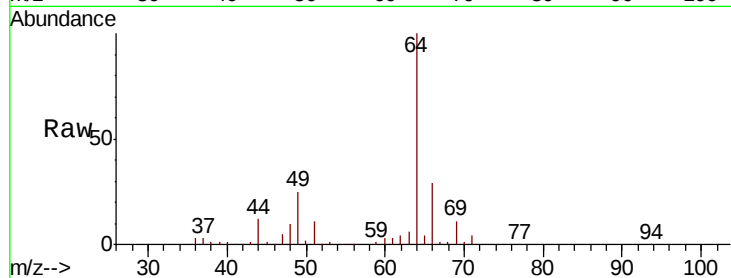
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 33457

Ion Ratio Lower Upper

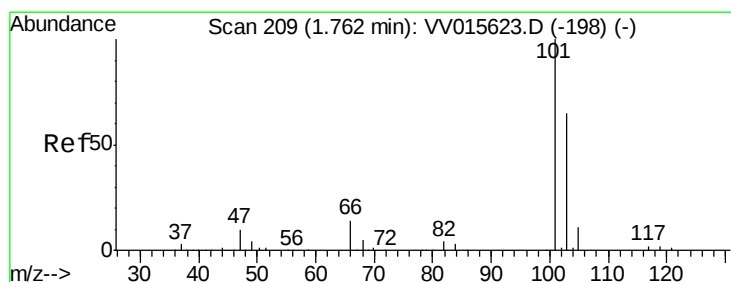
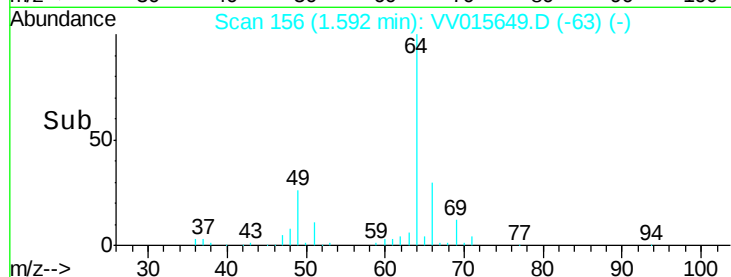
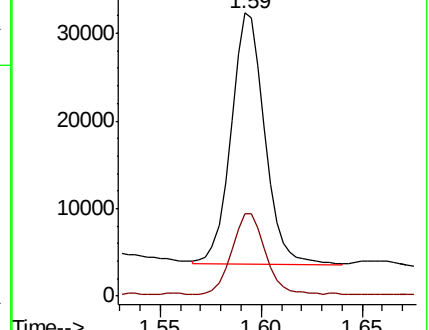
64 100

66 29.1 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VV015623.D (-146) (-)

Ion 66.05 (65.75 to 66.75): VV015623.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 5.312 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV015649.D

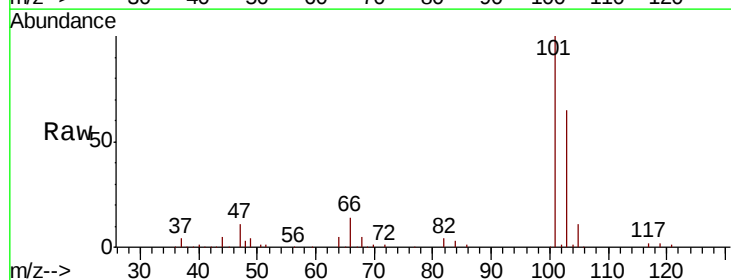
Acq: 23 Apr 2020 02:15

Tgt Ion:101 Resp: 76420

Ion Ratio Lower Upper

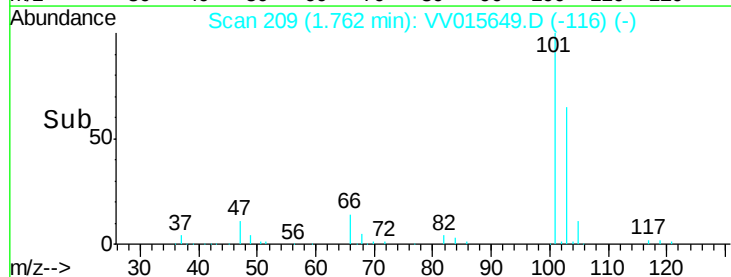
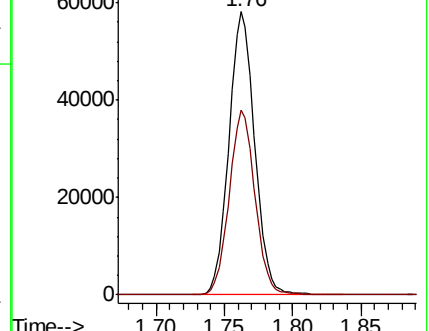
101 100

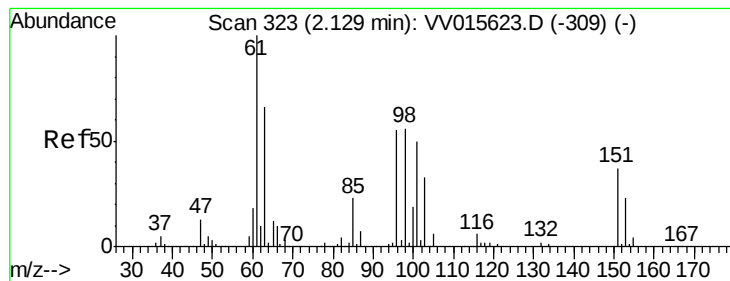
103 65.4 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV015623.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV015623.D (-198) (-)





#10

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

Concen: 5.196 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

ClientSampleId :

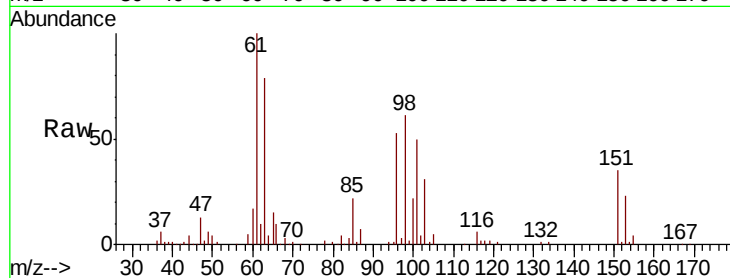
Tot Ion:101 Resp: 42285

Ion Ratio Lower Upper

101 100

85 44.5 36.1 54.1

151 71.5 55.2 82.8

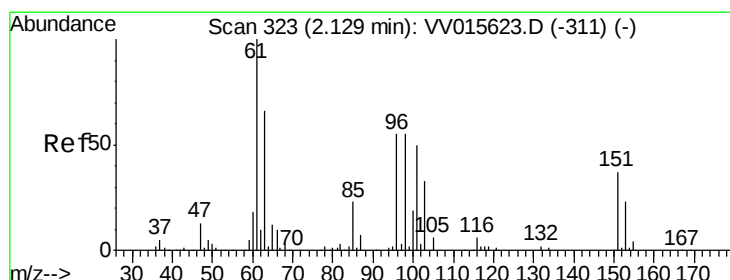
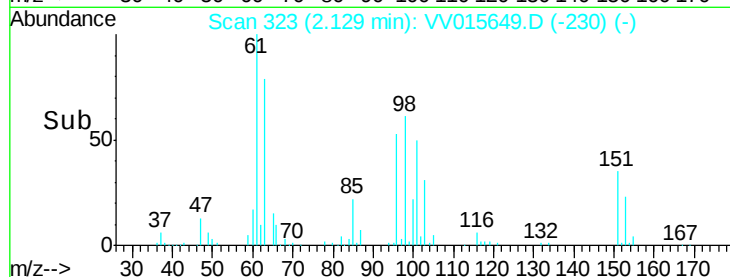


Abundance Ion 101.00 (100.70 to 101.70): VV015623.D (-309) (-)

Ion 85.00 (84.70 to 85.70): VV015623.D (-309) (-)

Ion 151.00 (150.70 to 151.70): VV015623.D (-309) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 5.160 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

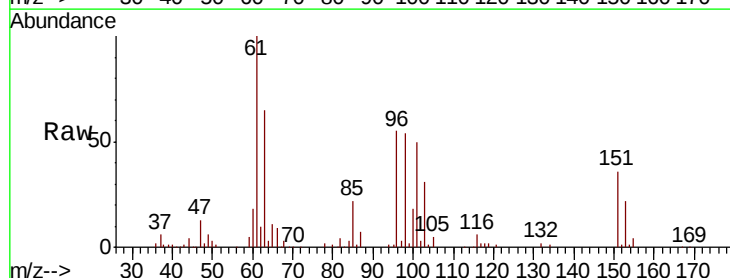
Tgt Ion: 96 Resp: 38897

Ion Ratio Lower Upper

96 100

61 182.9 130.1 241.7

63 118.1 91.4 169.8

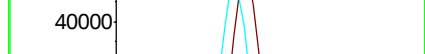
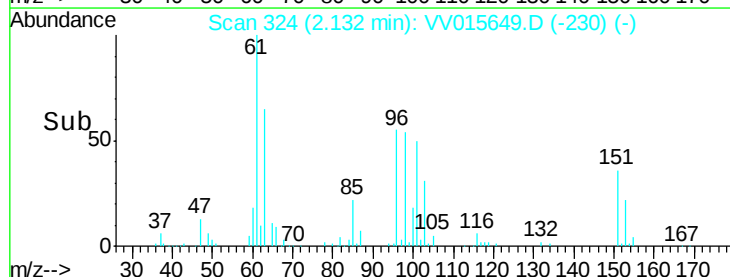


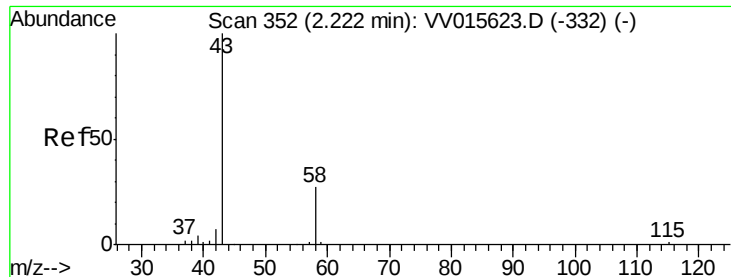
Abundance Ion 96.00 (95.70 to 96.70): VV015649.D (-230) (-)

Ion 61.05 (60.75 to 61.75): VV015649.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV015649.D (-230) (-)

Time-->





#13

Acetone

Concen: 48.540 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

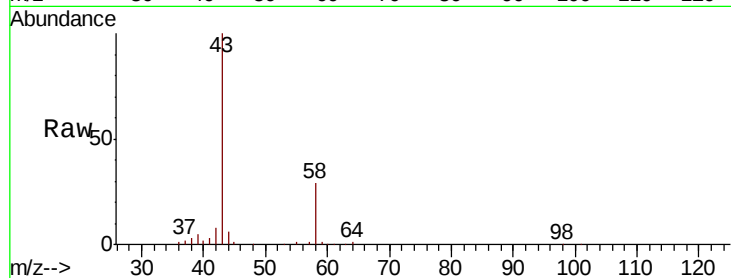
ClientSampleId :

Tot Ion: 43 Resp: 73252

Ion Ratio Lower Upper

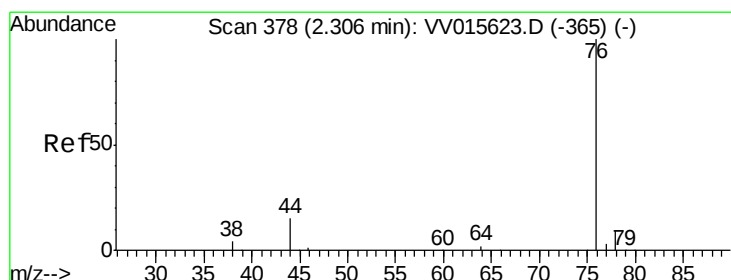
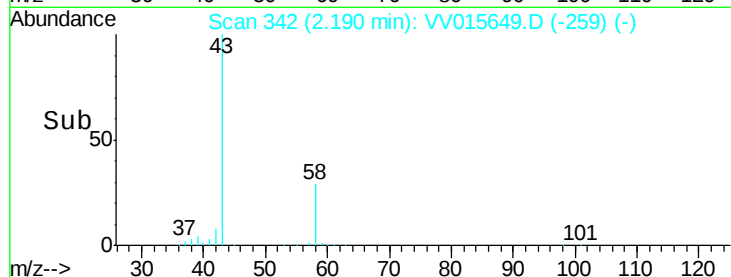
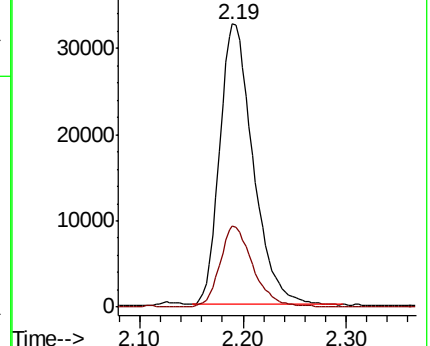
43 100

58 28.8 0.0 57.6



Abundance Ion 43.05 (42.75 to 43.75): VV015649.D (-259) (-)

Ion 58.05 (57.75 to 58.75): VV015649.D (-259) (-)



#14

Carbon disulfide

Concen: 4.904 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV015649.D

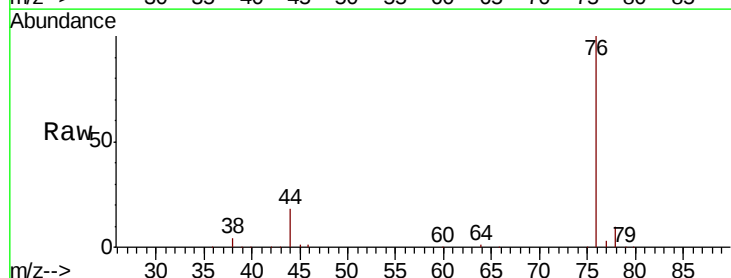
Acq: 23 Apr 2020 02:15

Tgt Ion: 76 Resp: 104492

Ion Ratio Lower Upper

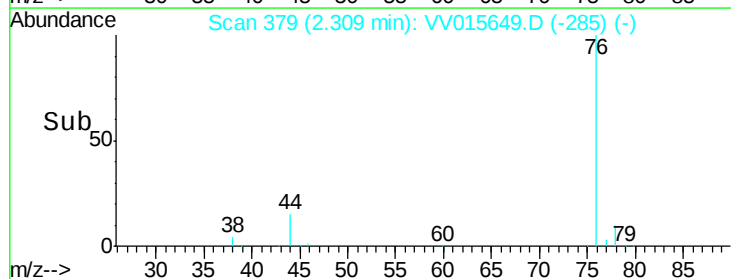
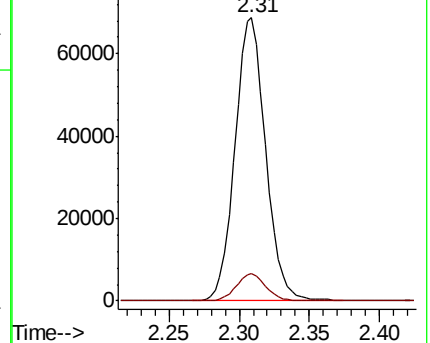
76 100

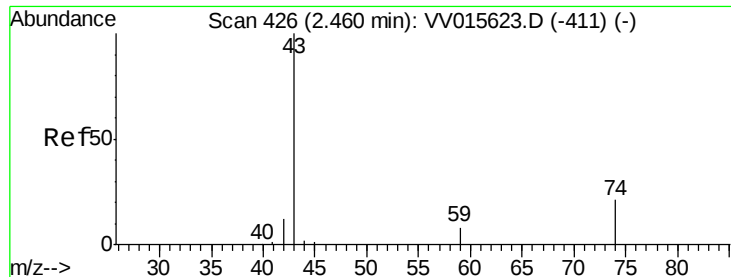
78 9.7 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV015649.D (-285) (-)

Ion 78.00 (77.70 to 78.70): VV015649.D (-285) (-)

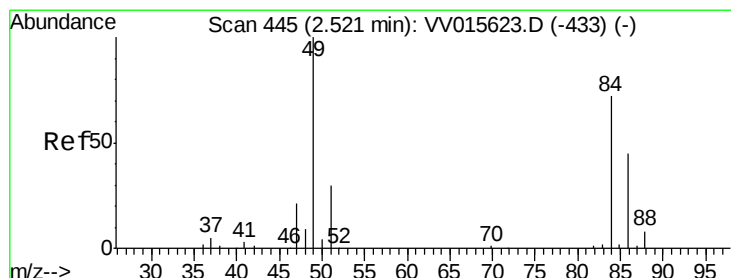
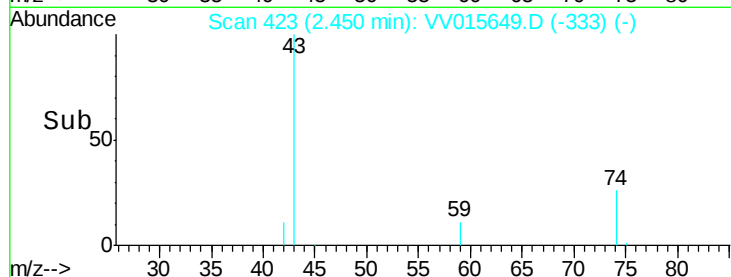
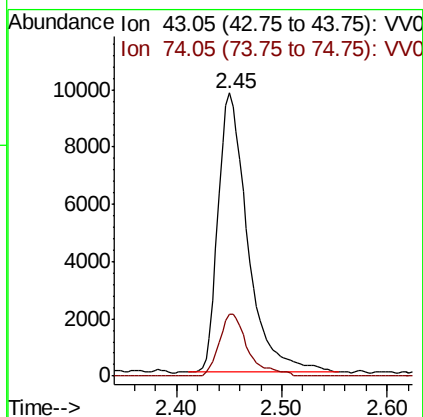
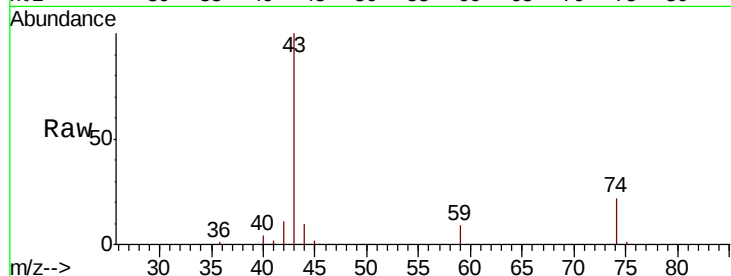




#15  
Methvl Acetate  
Concen: 5.316 ug/L  
RT: 2.45 min Scan# 423  
Delta R.T. -0.01 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

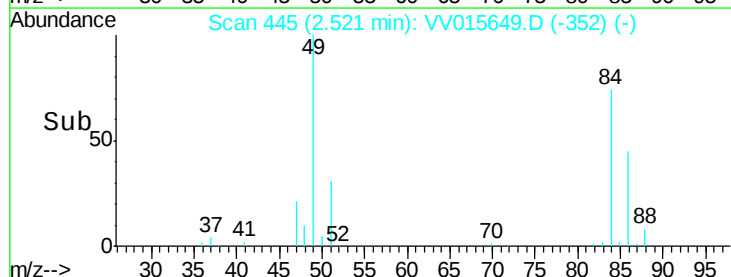
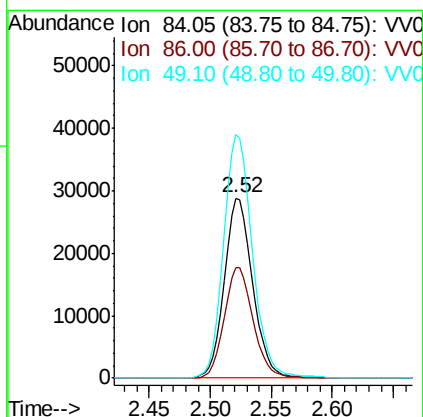
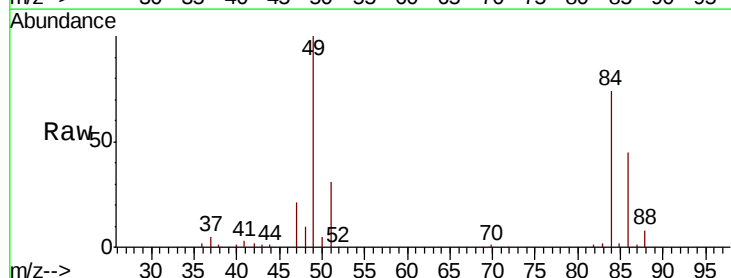
Instrument :  
MSVOA\_V  
ClientSampled :

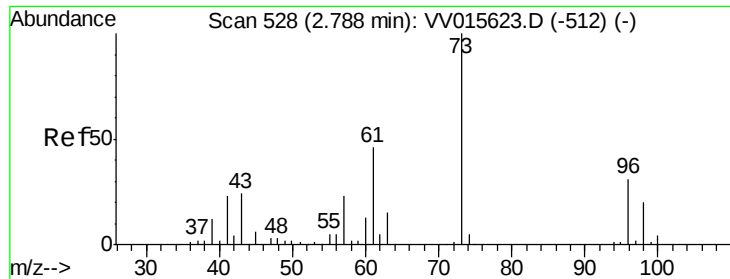
Tot Ion: 43 Resp: 19080  
Ion Ratio Lower Upper  
43 100  
74 21.2 16.3 24.5



#16  
Methylene chloride  
Concen: 5.062 ug/L  
RT: 2.52 min Scan# 445  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 84 Resp: 47111  
Ion Ratio Lower Upper  
84 100  
86 61.5 45.1 83.7  
49 135.4 94.4 175.4

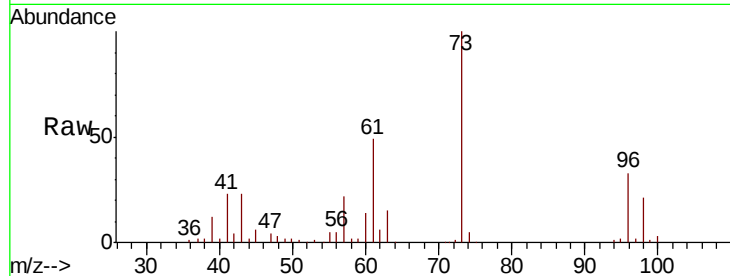




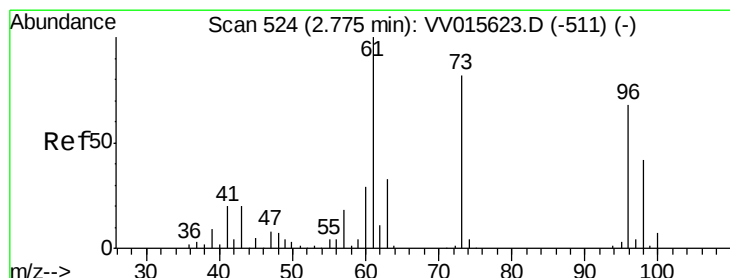
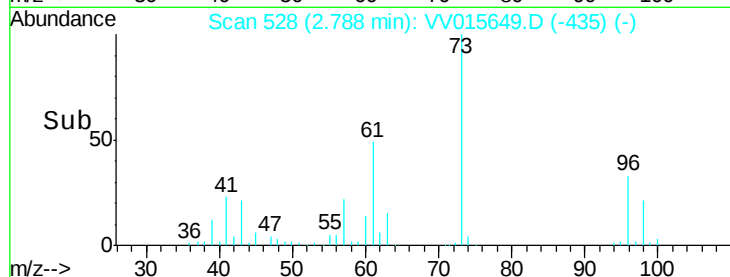
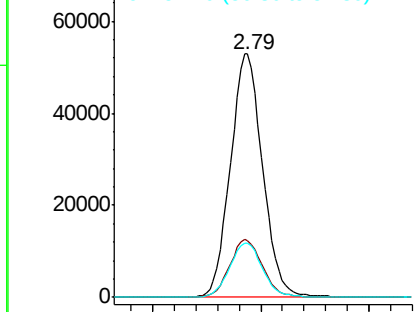
#17  
Methvl tert-butvl Ether  
Concen: 5.206 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 73 Resp: 110153  
Ion Ratio Lower Upper  
73 100  
43 24.2 20.1 30.1  
57 22.8 17.8 26.8

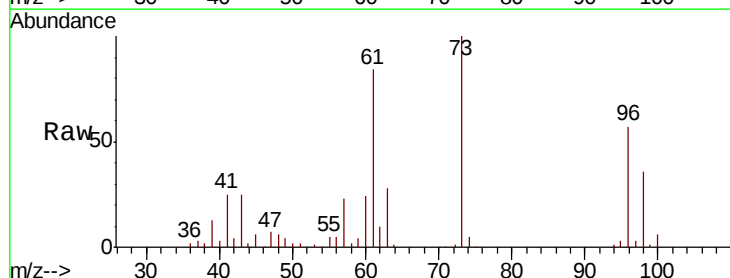


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

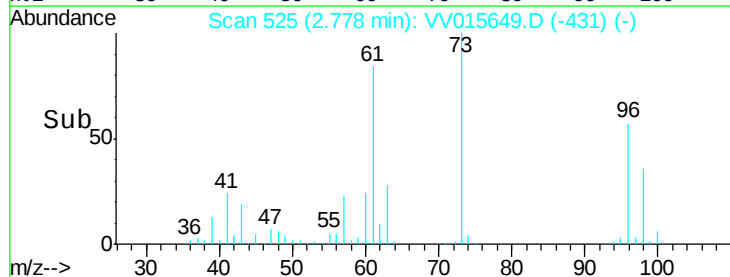
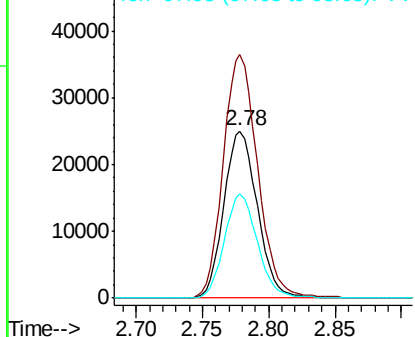


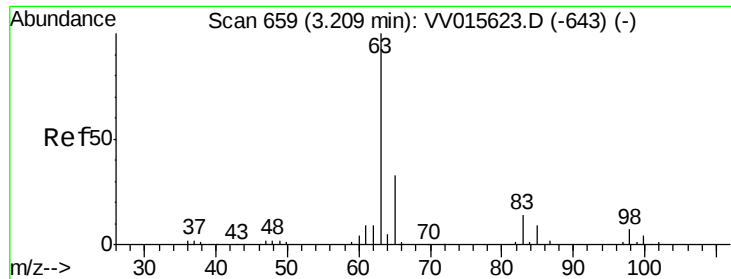
#18  
trans-1,2-Dichloroethene  
Concen: 5.219 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 96 Resp: 44046  
Ion Ratio Lower Upper  
96 100  
61 145.9 105.5 195.9  
98 62.3 44.2 82.0



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: 5.208 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

ClientSampleId :

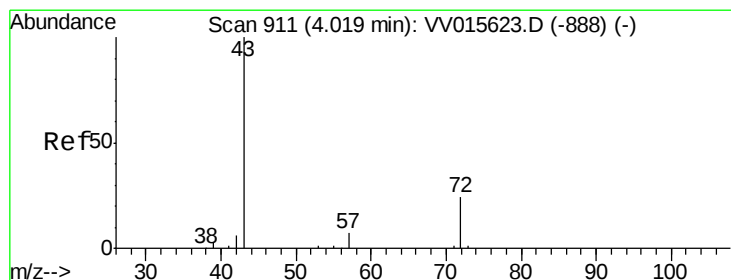
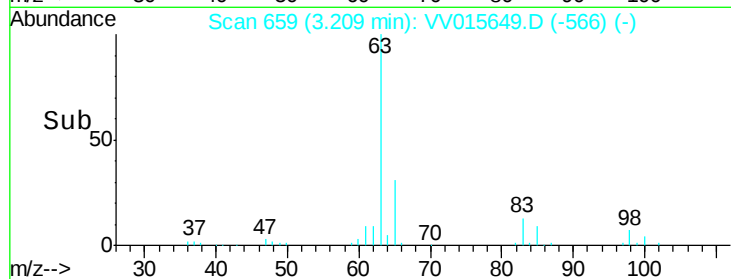
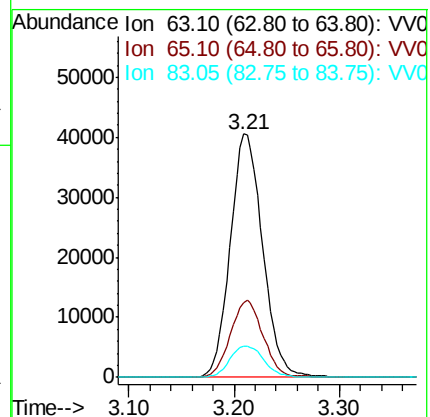
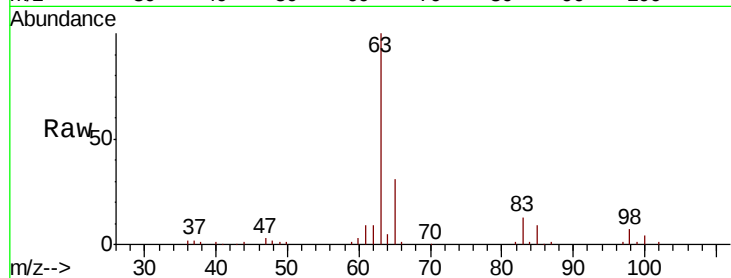
Tot Ion: 63 Resp: 86314

Ion Ratio Lower Upper

63 100

65 30.9 22.3 41.3

83 12.9 9.3 17.3



#21

2-Butanone

Concen: 51.017 ug/L

RT: 3.99 min Scan# 903

Delta R.T. -0.03 min

Lab File: VV015649.D

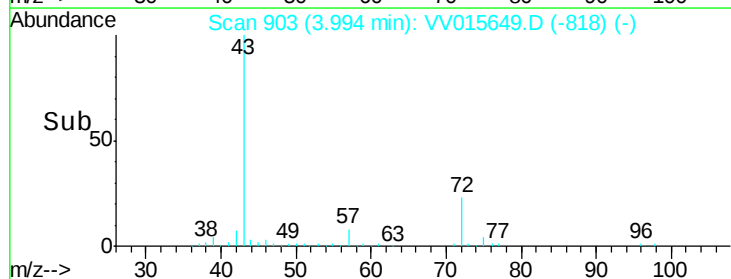
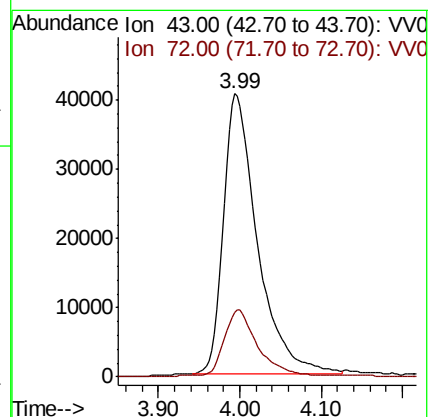
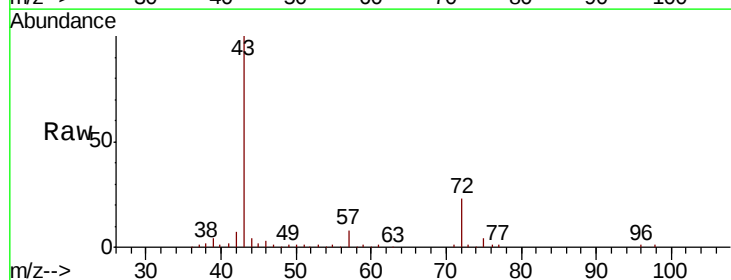
Acq: 23 Apr 2020 02:15

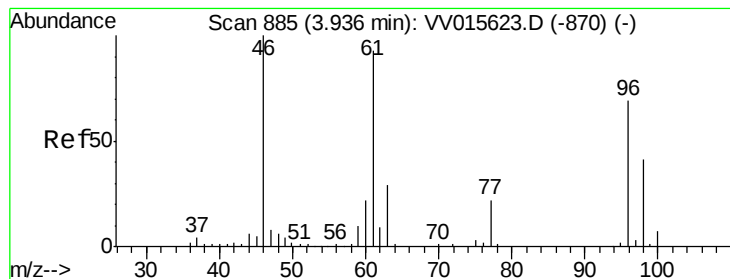
Tgt Ion: 43 Resp: 118754

Ion Ratio Lower Upper

43 100

72 24.9 12.3 36.9



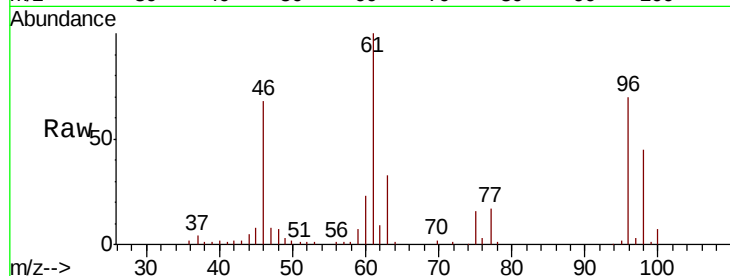


#22

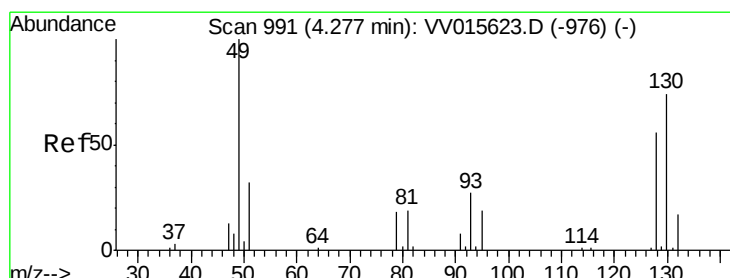
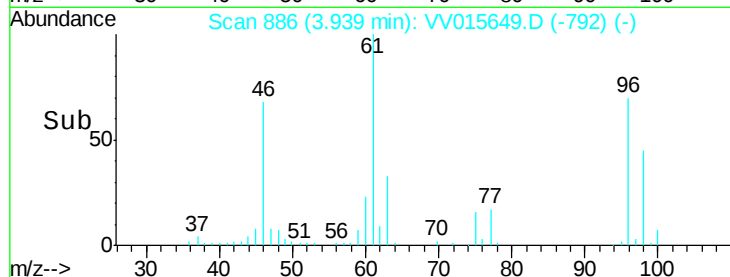
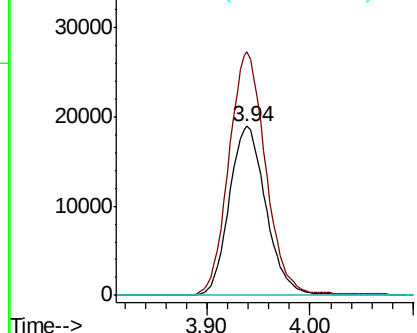
cis-1,2-Dichloroethene  
Concen: 5.014 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 96 Resp: 46796  
Ion Ratio Lower Upper  
96 100  
61 143.9 96.4 179.0  
68 0.0 0.0 0.0



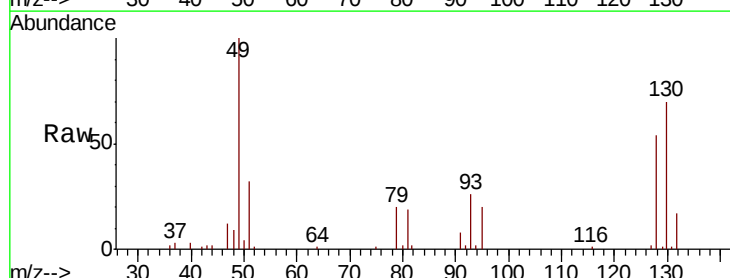
Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0



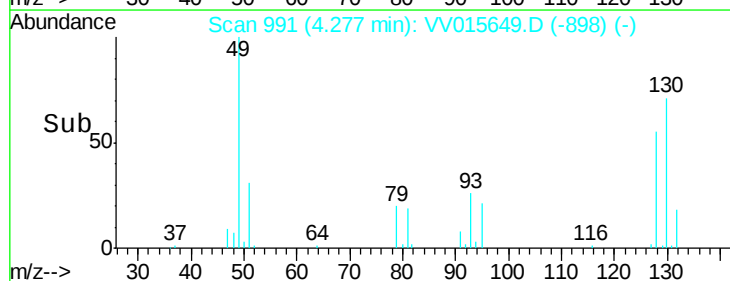
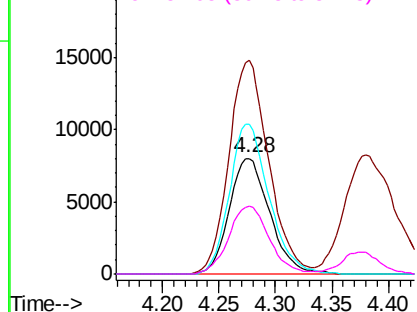
#23

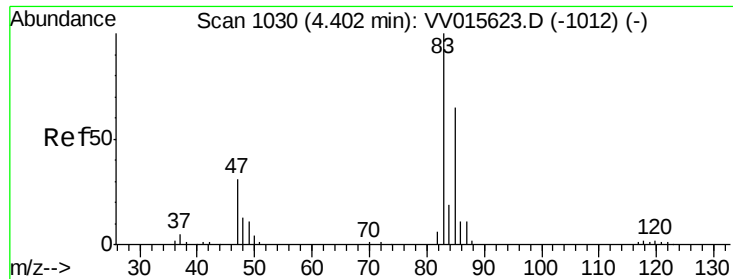
Bromochloromethane  
Concen: 5.225 ug/L  
RT: 4.28 min Scan# 991  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 128 Resp: 19917  
Ion Ratio Lower Upper  
128 100  
49 184.5 130.8 242.8  
130 128.8 91.1 169.3  
51 58.2 45.2 67.8



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

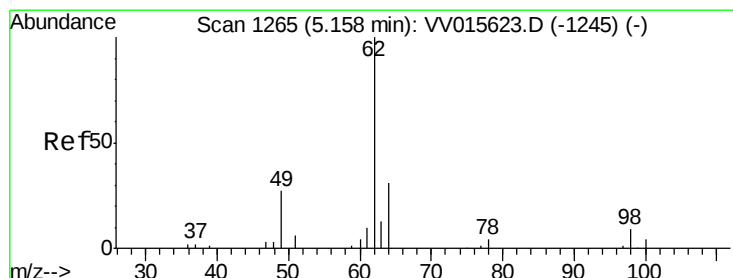
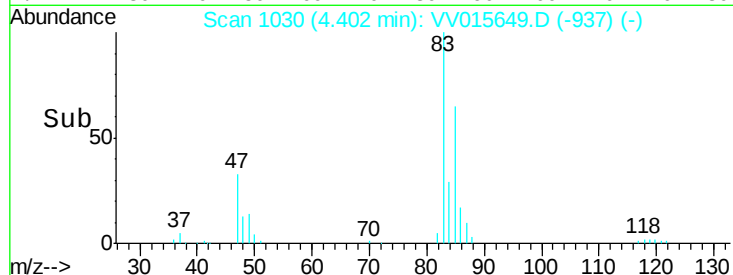
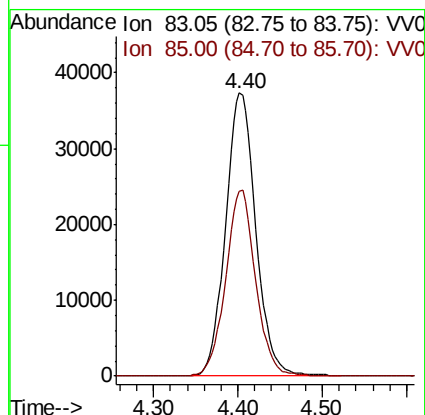
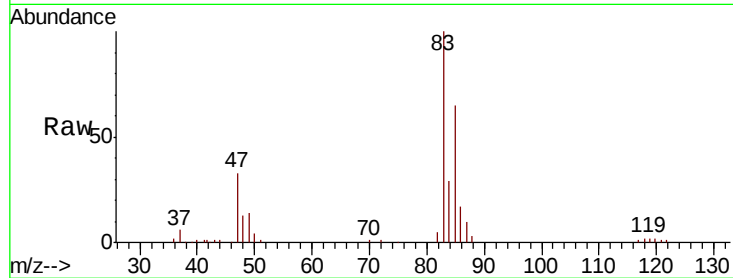




#25  
Chloroform  
Concen: 5.277 ug/L  
RT: 4.40 min Scan# 1030  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

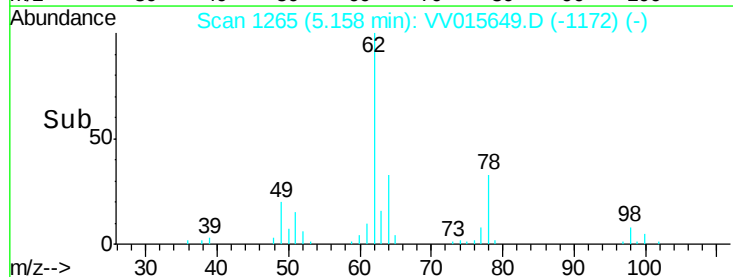
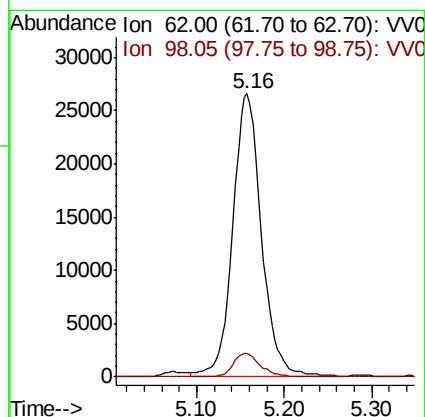
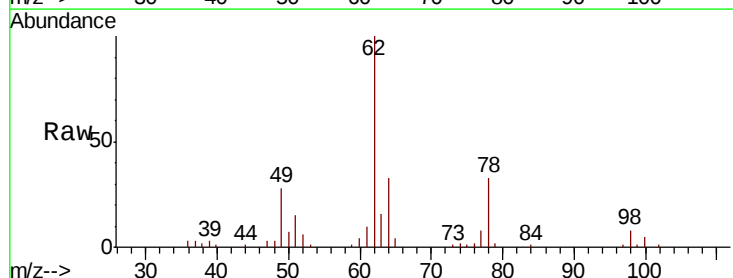
Instrument :  
MSVOA\_V  
ClientSampleId :

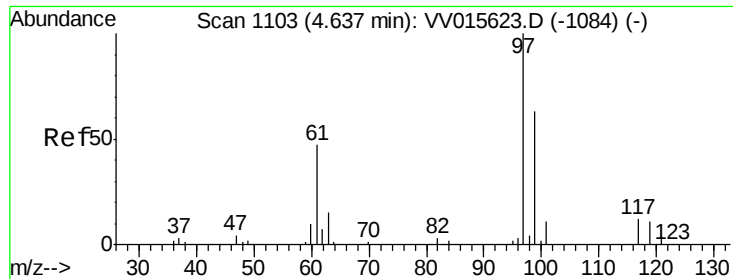
Tot Ion: 83 Resp: 92848  
Ion Ratio Lower Upper  
83 100  
85 65.4 46.1 85.5



#27  
1,2-Dichloroethane  
Concen: 5.252 ug/L  
RT: 5.16 min Scan# 1265  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 62 Resp: 60704  
Ion Ratio Lower Upper  
62 100  
98 8.3 6.3 9.5

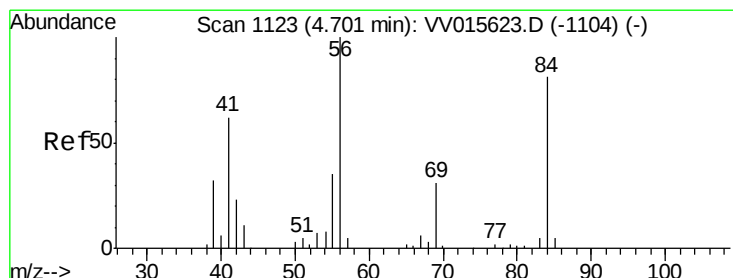
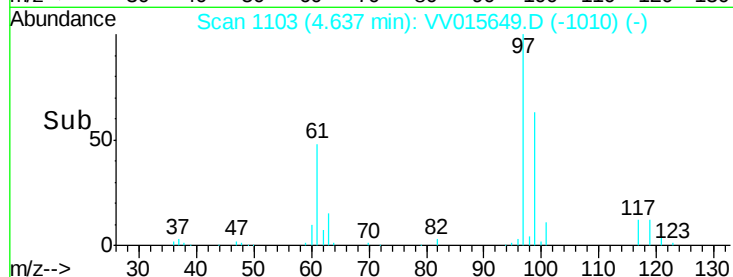
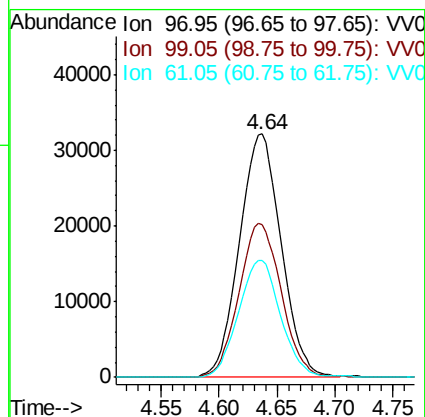
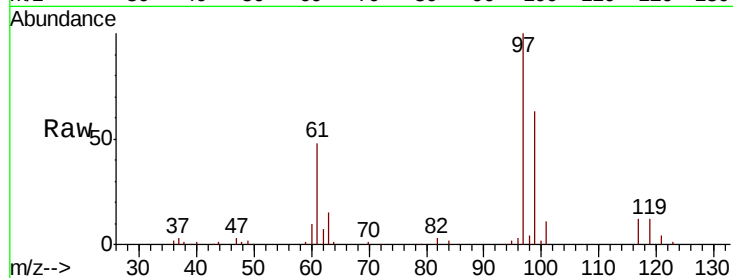




#29  
1,1,1-Trichloroethane  
Concen: 5.216 ug/L  
RT: 4.64 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

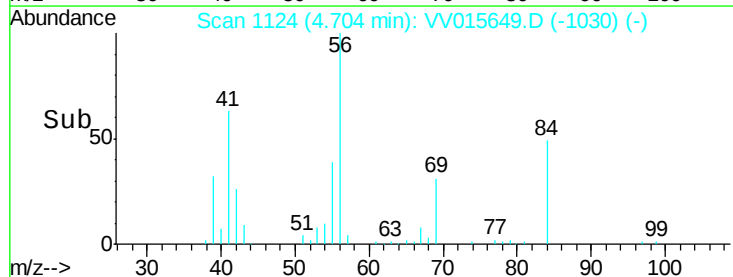
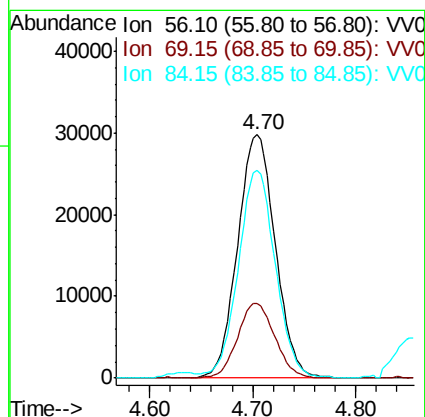
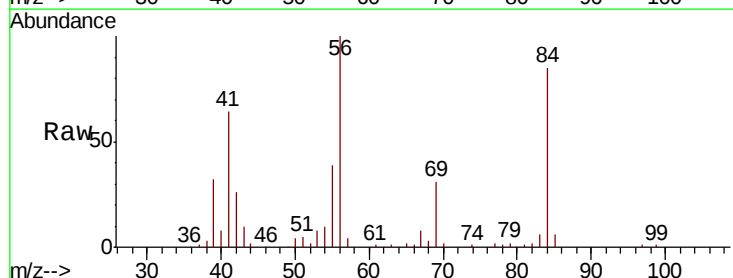
Instrument :  
MSVOA\_V  
ClientSampled :

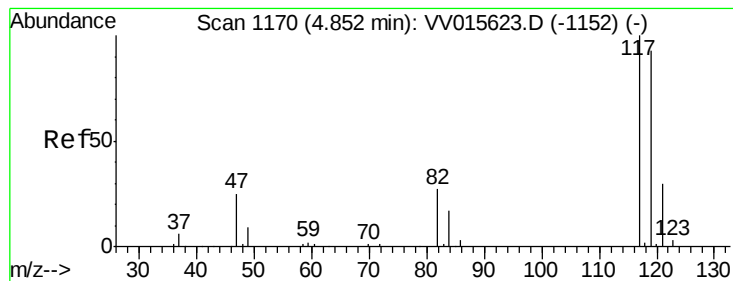
Tot Ion: 97 Resp: 80665  
Ion Ratio Lower Upper  
97 100  
99 64.0 51.6 77.4  
61 48.7 38.6 57.8



#30  
Cyclohexane  
Concen: 5.132 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 56 Resp: 75819  
Ion Ratio Lower Upper  
56 100  
69 30.2 23.9 35.9  
84 84.2 66.9 100.3





#31

Carbon tetrachloride

Concen: 5.064 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

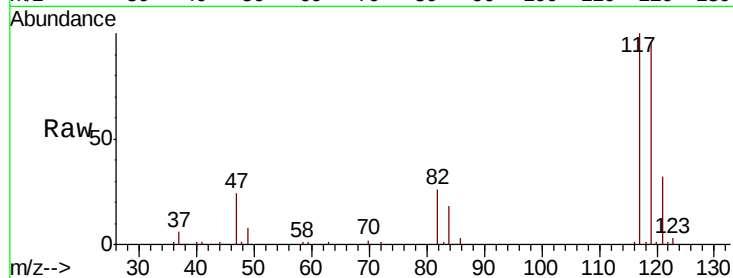
ClientSampleId :

Tot Ion:117 Resp: 64850

Ion Ratio Lower Upper

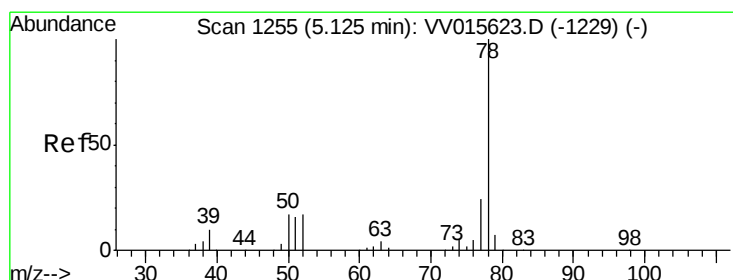
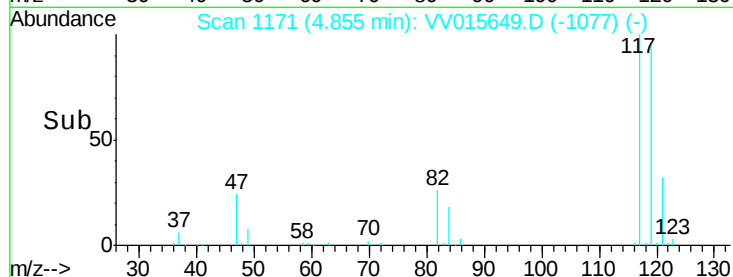
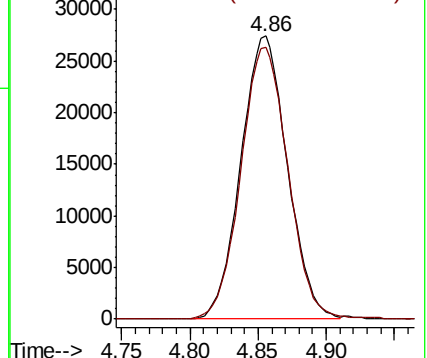
117 100

119 97.2 75.6 113.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.261 ug/L

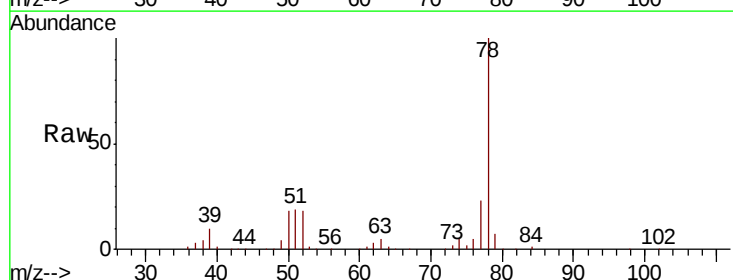
RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

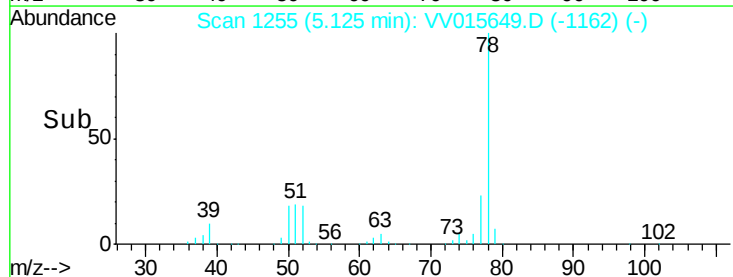
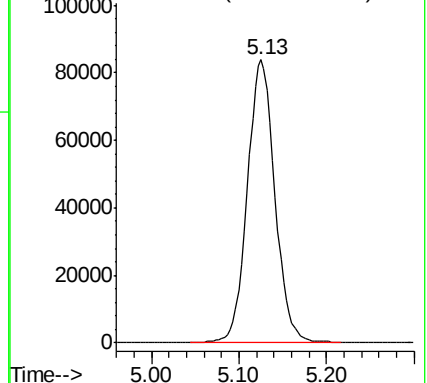
Lab File: VV015649.D

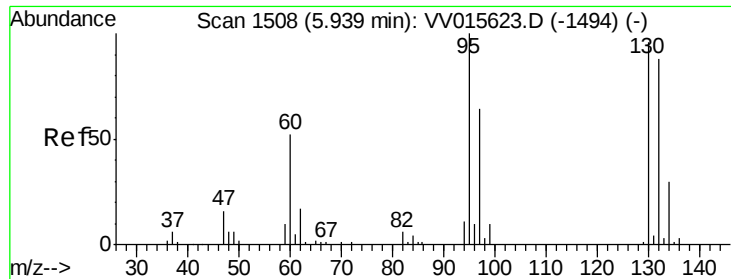
Acq: 23 Apr 2020 02:15

Tgt Ion: 78 Resp: 183295



Abundance Ion 78.10 (77.80 to 78.80): VV0

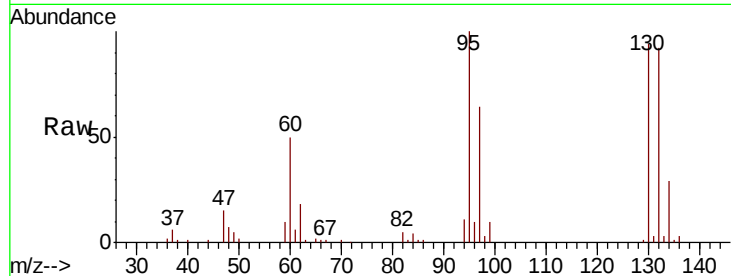




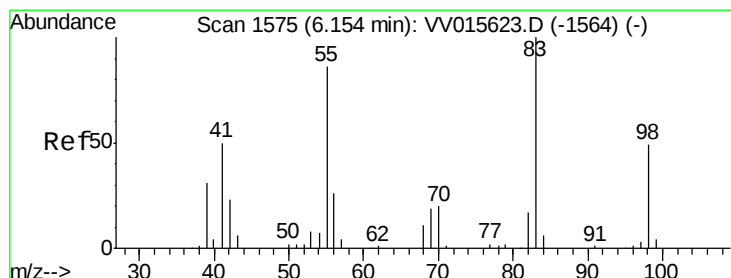
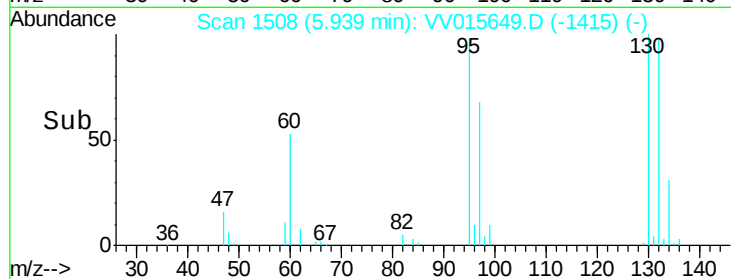
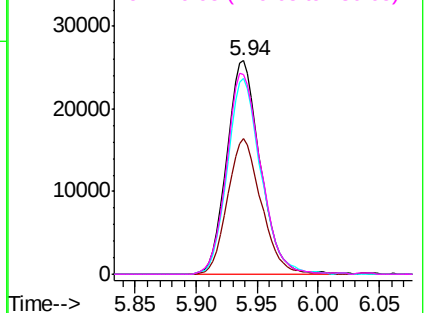
#34  
 Trichloroethene  
 Concen: 5.157 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion: 95 Resp: 49616  
 Ion Ratio Lower Upper  
 95 100  
 97 63.8 44.7 82.9  
 132 91.7 65.2 121.0  
 130 93.6 65.0 120.6

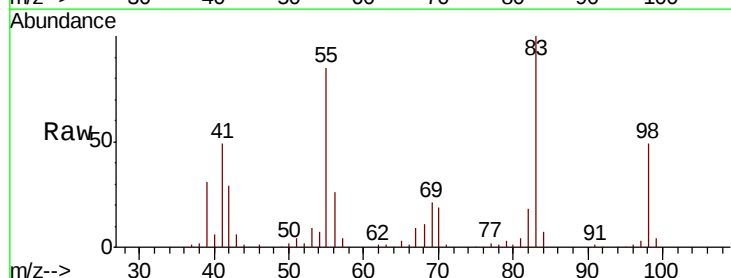


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

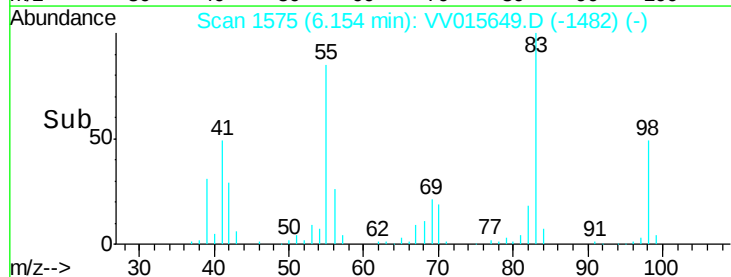
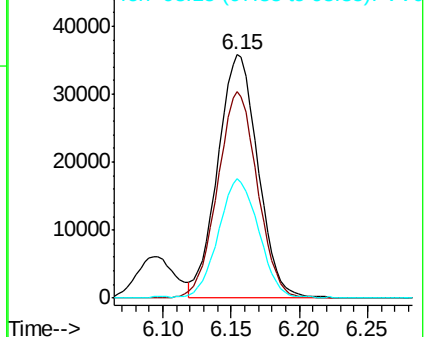


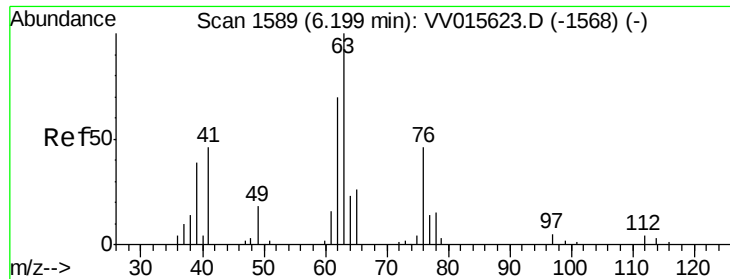
#35  
 Methylcyclohexane  
 Concen: 4.968 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Tgt Ion: 83 Resp: 73360  
 Ion Ratio Lower Upper  
 83 100  
 55 84.1 66.6 99.8  
 98 49.3 39.5 59.3



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

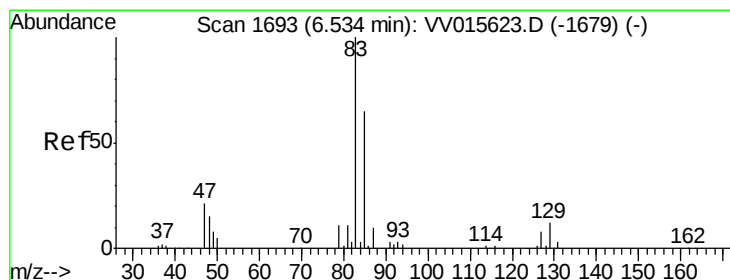
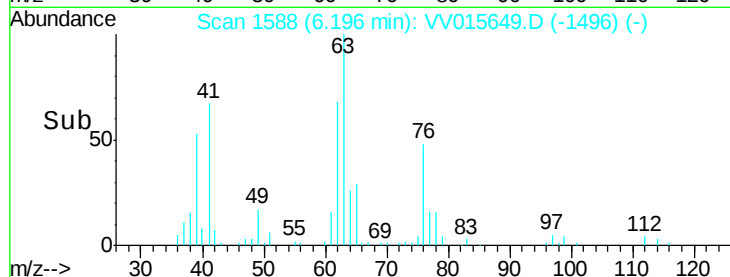
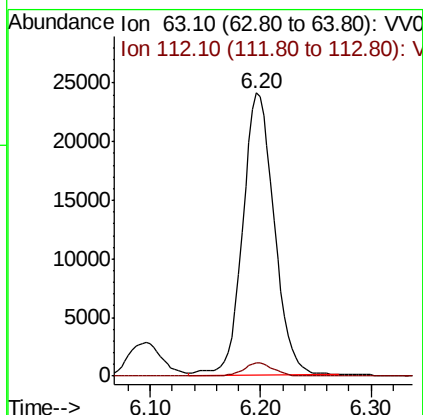
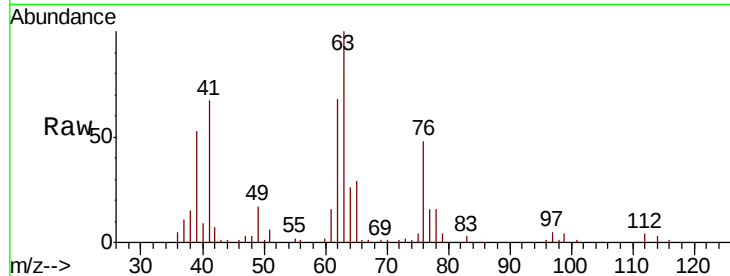




#37  
 1,2-Dichloropropane  
 Concen: 5.379 ug/L  
 RT: 6.20 min Scan# 1588  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

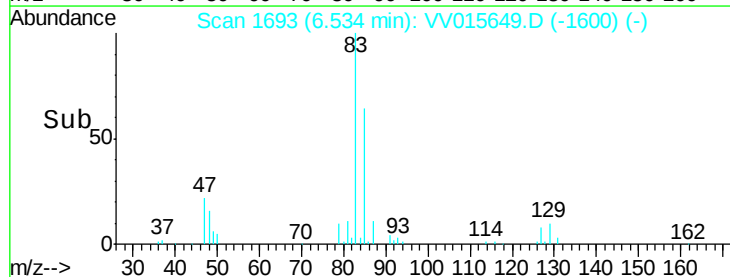
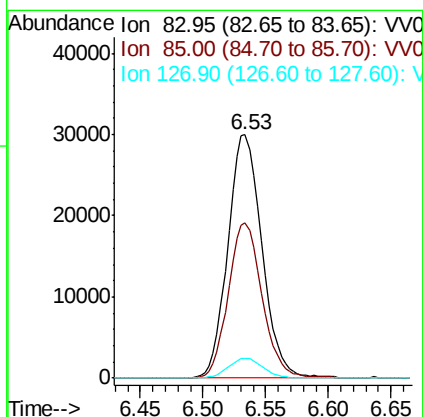
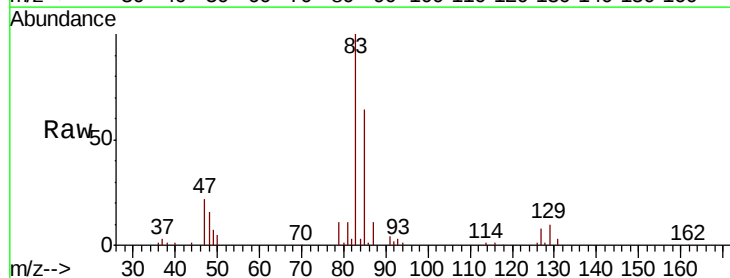
Instrument :  
 MSVOA\_V  
 ClientSampled :

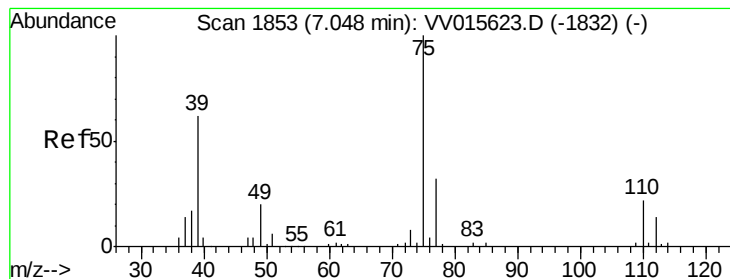
Tot Ion: 63 Resp: 47633  
 Ion Ratio Lower Upper  
 63 100  
 112 4.2 3.6 5.4



#38  
 Bromodichloromethane  
 Concen: 5.039 ug/L  
 RT: 6.53 min Scan# 1693  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Tgt Ion: 83 Resp: 56659  
 Ion Ratio Lower Upper  
 83 100  
 85 64.0 44.7 83.1  
 127 8.3 5.8 8.6



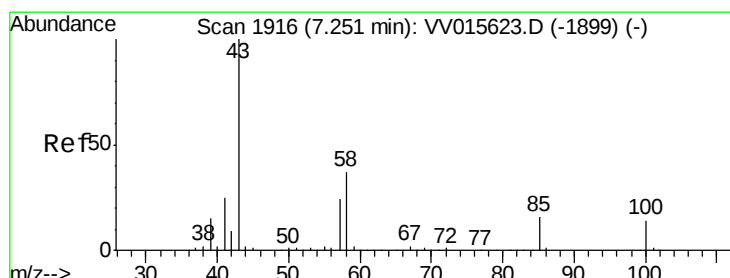
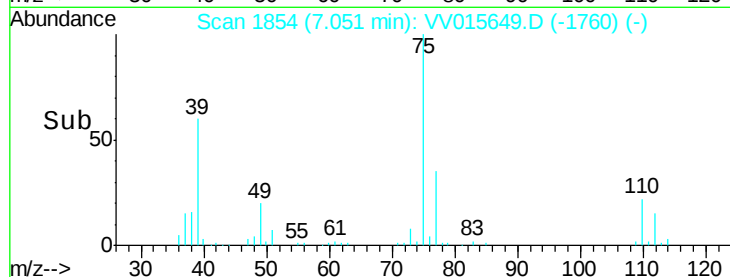
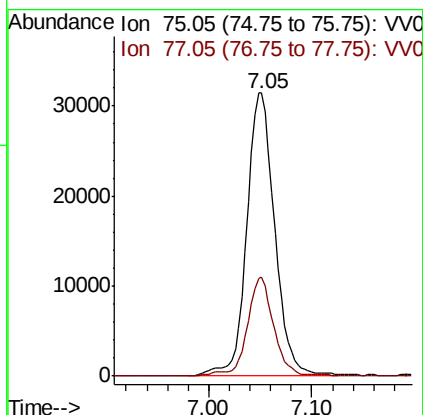
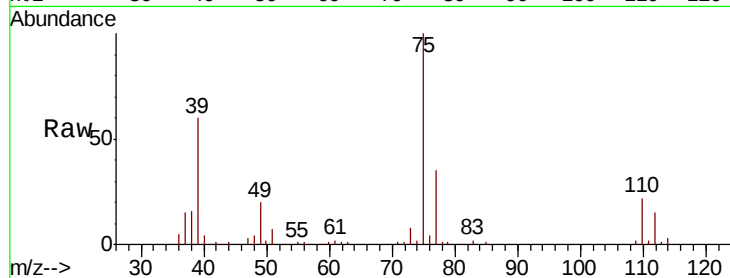


#39

cis-1,3-Dichloropropene  
 Concen: 4.808 ug/L  
 RT: 7.05 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :

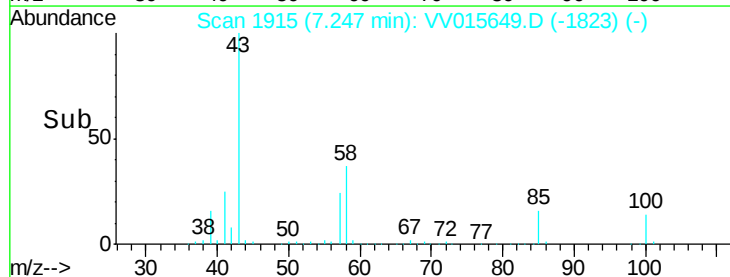
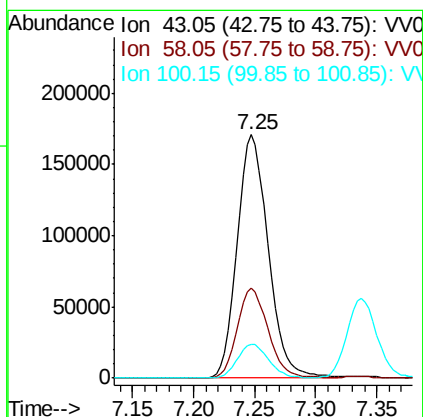
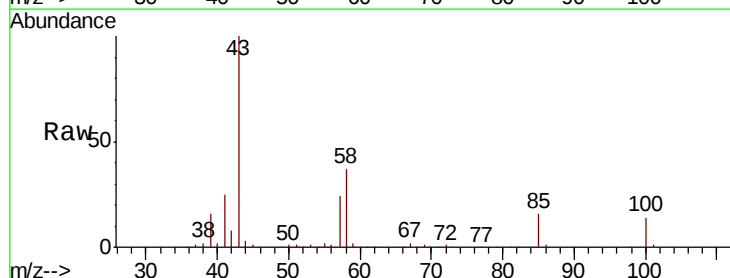
Tot Ion: 75 Resp: 59342  
 Ion Ratio Lower Upper  
 75 100  
 77 34.8 22.3 41.5

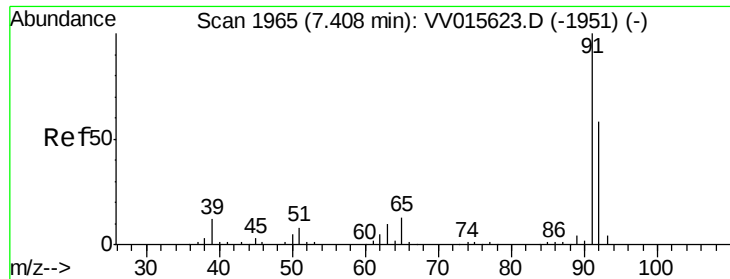


#40

4-Methyl-2-pentanone  
 Concen: 52.402 ug/L  
 RT: 7.25 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Tgt Ion: 43 Resp: 301163  
 Ion Ratio Lower Upper  
 43 100  
 58 36.6 29.2 43.8  
 100 14.1 11.4 17.2





#42

Toluene

Concen: 5.249 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

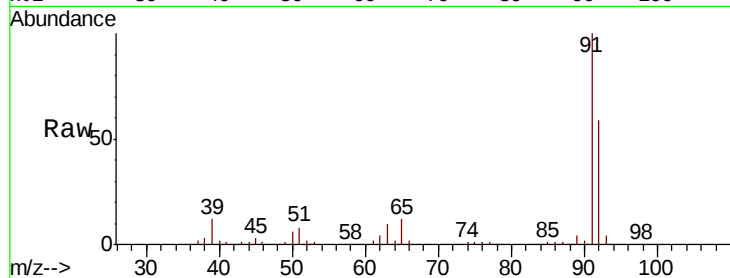
ClientSampled :

Tot Ion: 91 Resp: 195373

Ion Ratio Lower Upper

91 100

92 58.7 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

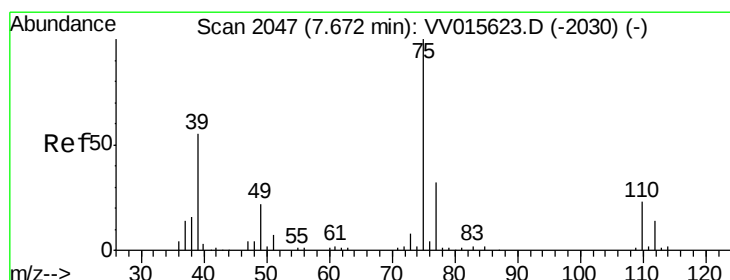
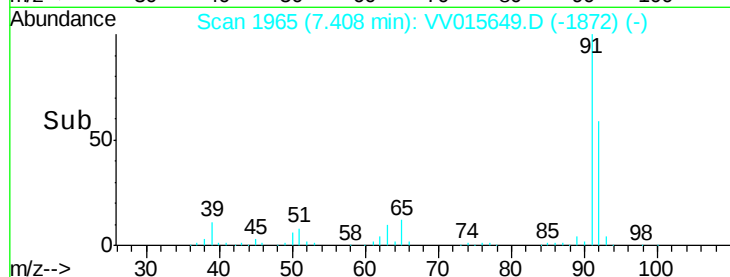
7.41

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.716 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV015649.D

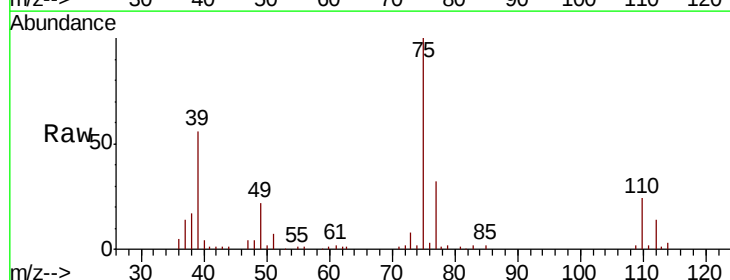
Acq: 23 Apr 2020 02:15

Tgt Ion: 75 Resp: 48920

Ion Ratio Lower Upper

75 100

77 31.7 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.67

30000

25000

20000

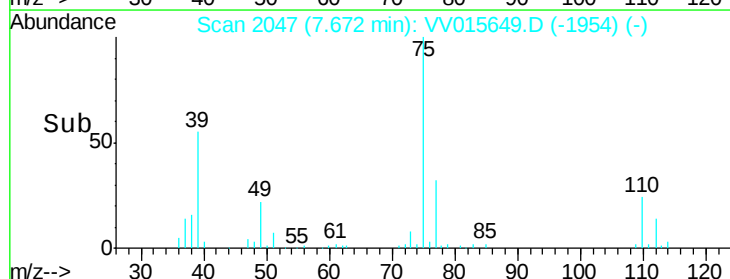
15000

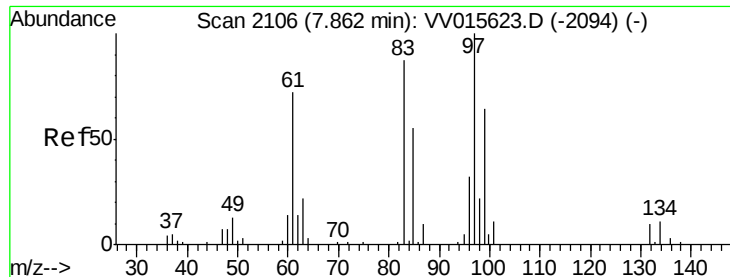
10000

5000

0

Time-->

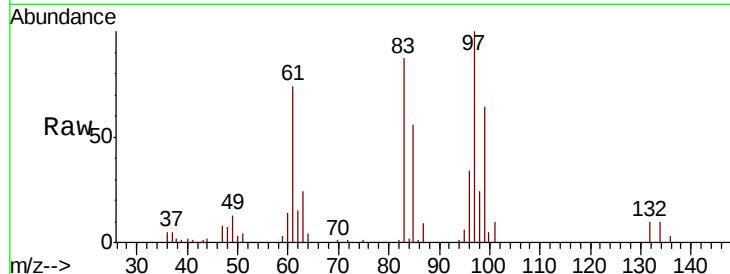




#45  
 1,1,2-Trichloroethane  
 Concen: 5.172 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 31216 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 45.4  | 84.4  |
| 83       | 87.2  | 61.3  | 113.9 |
| 85       | 56.1  | 38.4  | 71.4  |

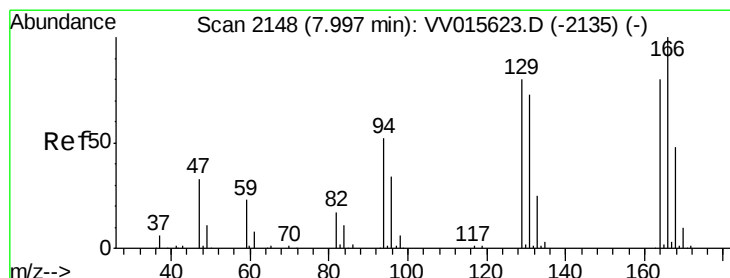
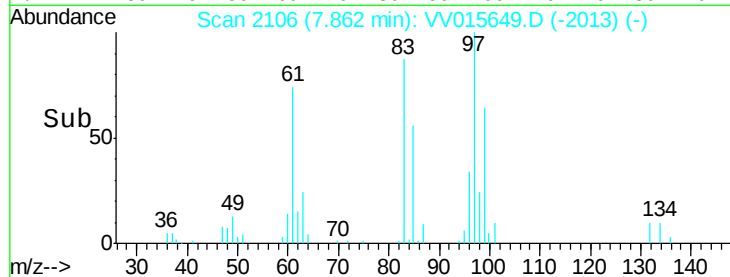
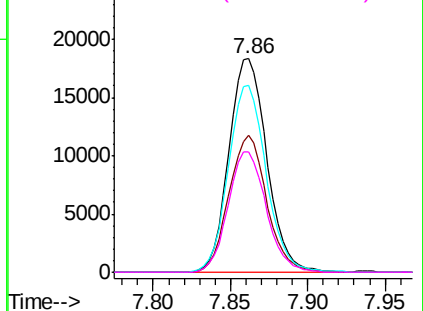


Abundance Ion 96.95 (96.65 to 97.65): VV015649.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV015649.D (-2013) (-)

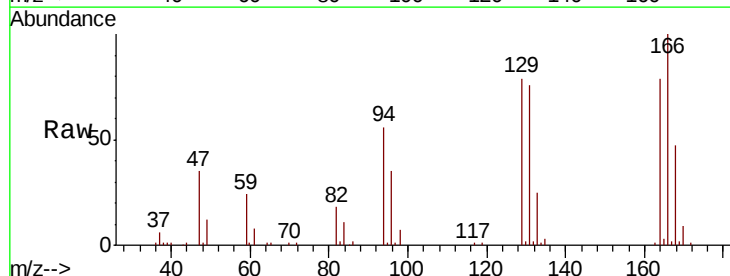
Ion 82.95 (82.65 to 83.65): VV015649.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV015649.D (-2013) (-)



#47  
 Tetrachloroethene  
 Concen: 5.049 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 34973 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.7  | 66.7  | 123.9 |
| 131      | 96.7  | 66.6  | 123.6 |
| 166      | 126.4 | 85.3  | 158.5 |

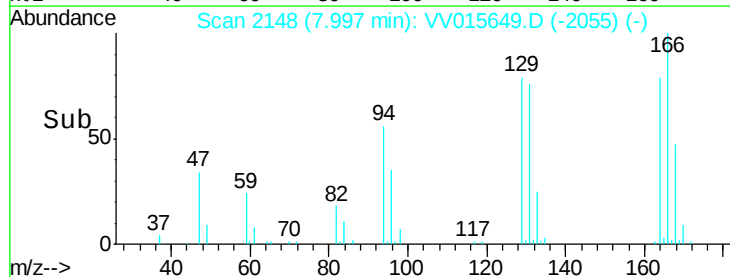
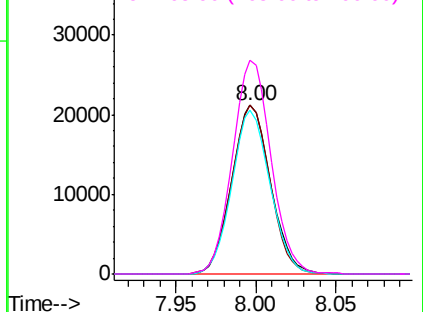


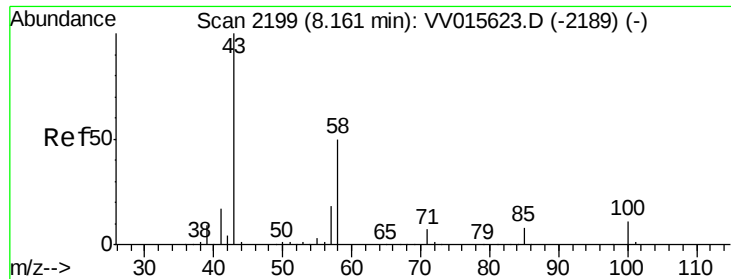
Abundance Ion 163.90 (163.60 to 164.60): VV015649.D (-2055) (-)

Ion 128.95 (128.65 to 129.65): VV015649.D (-2055) (-)

Ion 130.95 (130.65 to 131.65): VV015649.D (-2055) (-)

Ion 165.90 (165.60 to 166.60): VV015649.D (-2055) (-)

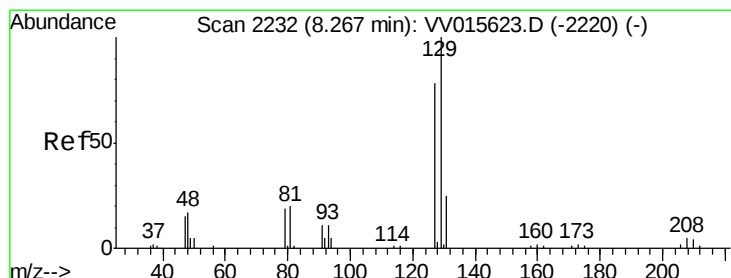
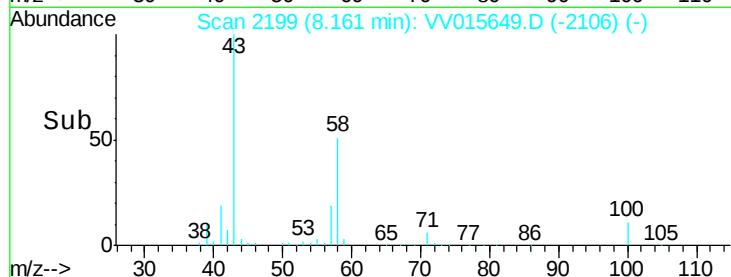
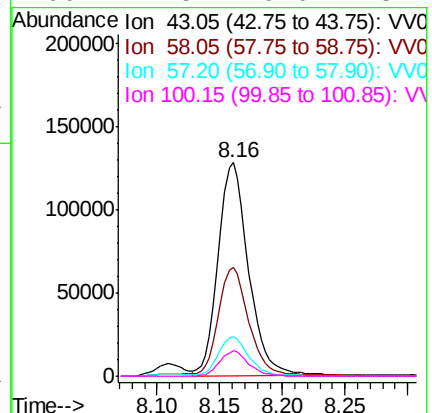
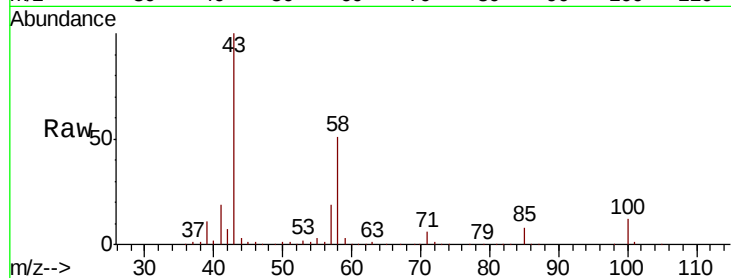




#48  
2-Hexanone  
Concen: 52.594 ug/L  
RT: 8.16 min Scan# 2199  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

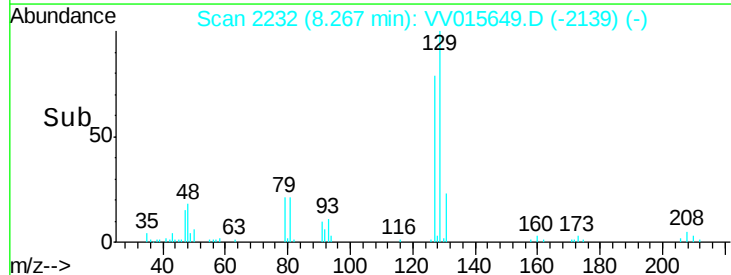
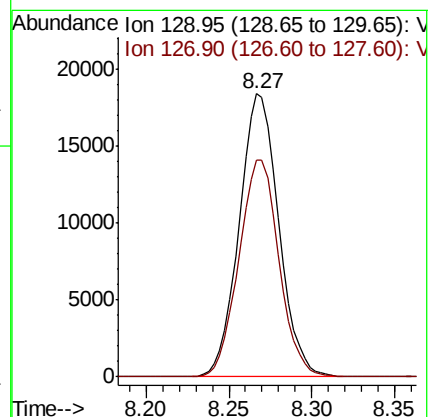
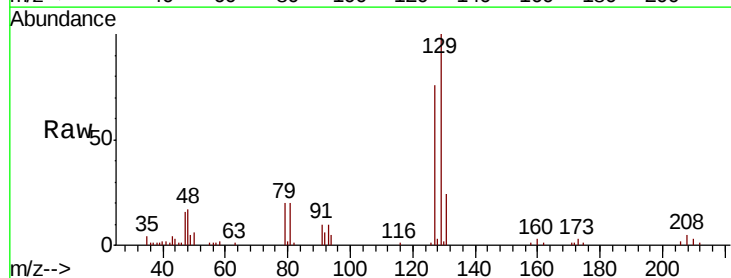
Instrument :  
MSVOA\_V  
ClientSampled :

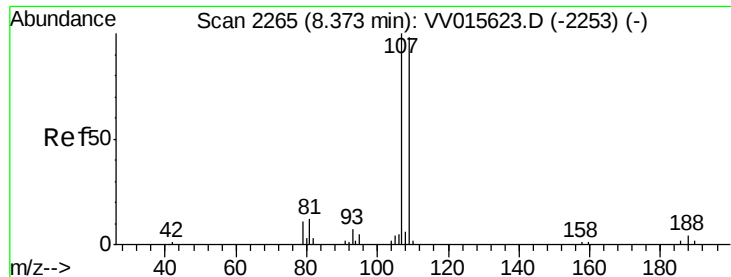
Tot Ion: 43 Resp: 215549  
Ion Ratio Lower Upper  
43 100  
58 51.1 41.1 61.7  
57 18.5 15.0 22.4  
100 11.5 9.0 13.4



#49  
Dibromochloromethane  
Concen: 4.873 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion: 129 Resp: 30436  
Ion Ratio Lower Upper  
129 100  
127 76.5 52.6 97.8

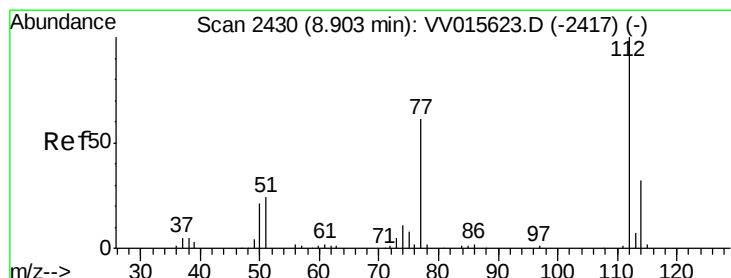
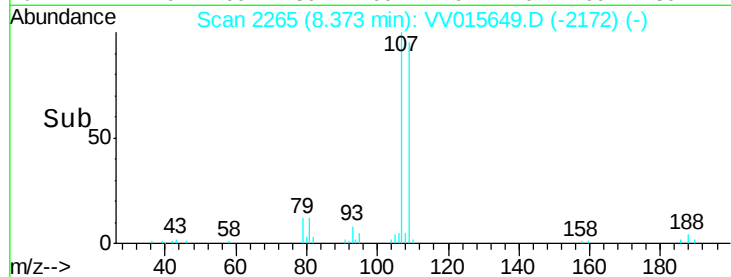
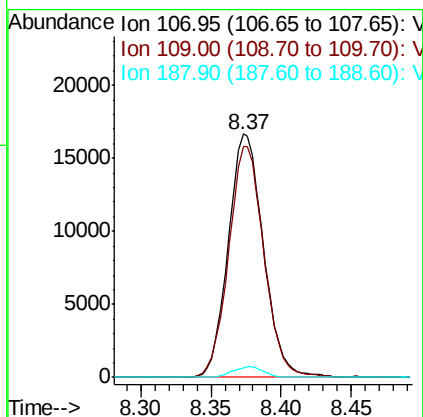
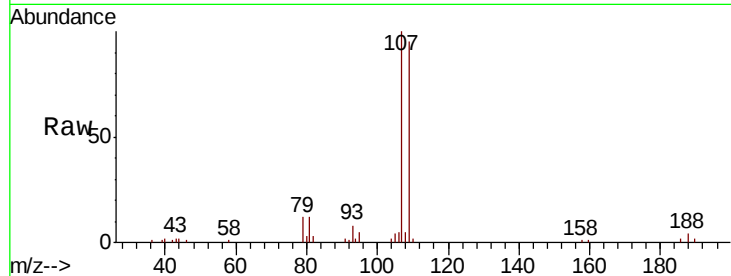




#50  
 1,2-Dibromoethane  
 Concen: 5.214 ug/L  
 RT: 8.37 min Scan# 2265  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

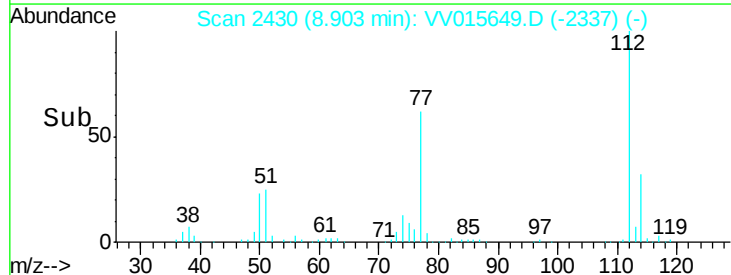
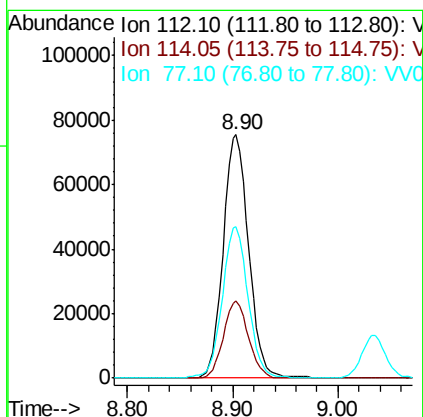
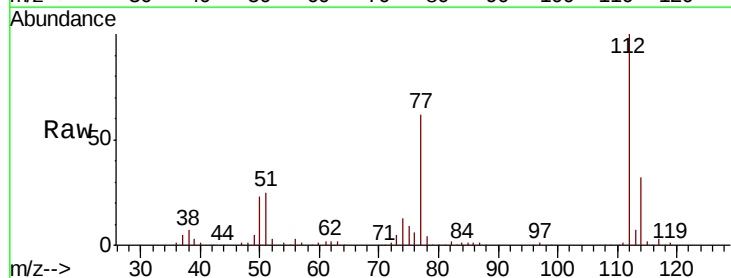
Instrument :  
 MSVOA\_V  
 ClientSampleId :

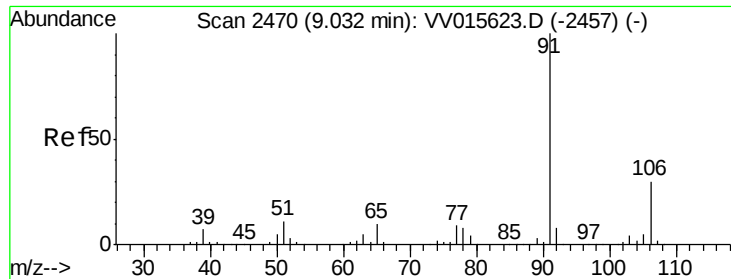
Tot Ion:107 Resp: 29104  
 Ion Ratio Lower Upper  
 107 100  
 109 94.6 68.1 126.5  
 188 3.8 3.2 4.8



#51  
 Chlorobenzene  
 Concen: 5.142 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Tgt Ion:112 Resp: 125382  
 Ion Ratio Lower Upper  
 112 100  
 114 31.7 21.6 40.2  
 77 62.3 48.9 73.3





#52

Ethylbenzene

Concen: 5.200 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

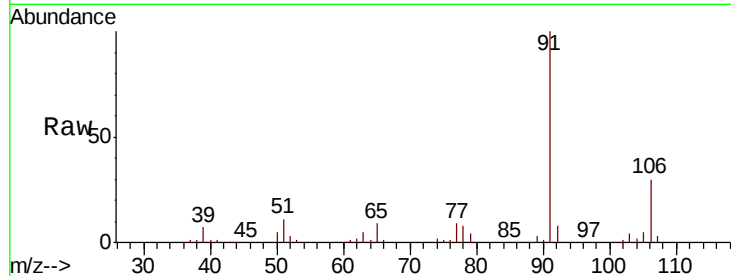
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 91 Resp: 224008

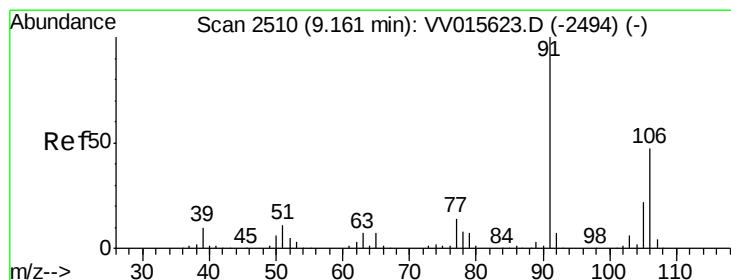
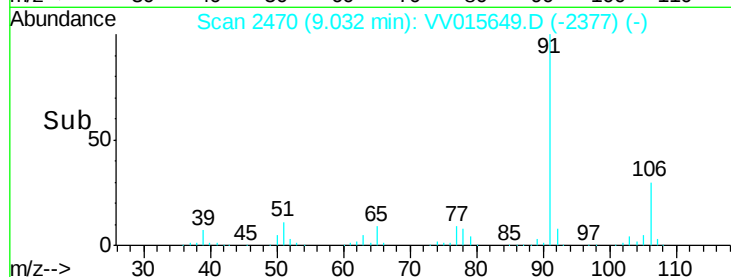
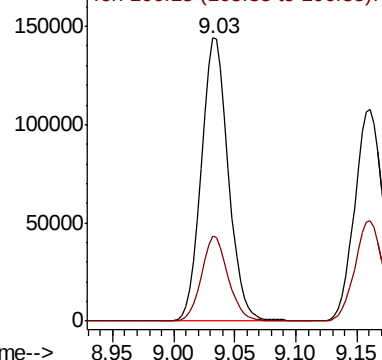
Ion Ratio Lower Upper

91 100

106 30.0 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV015649.D (-2377) (-)



#53

m,p-xylene

Concen: 5.276 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. -0.00 min

Lab File: VV015649.D

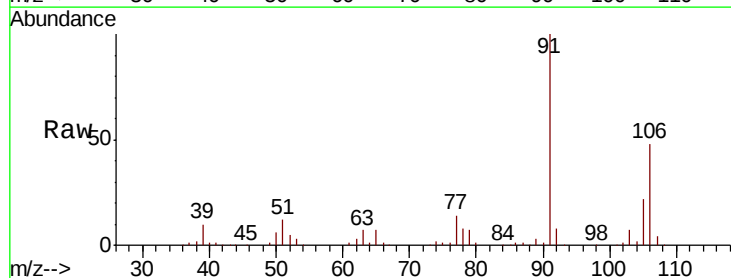
Acq: 23 Apr 2020 02:15

Tgt Ion: 106 Resp: 83243

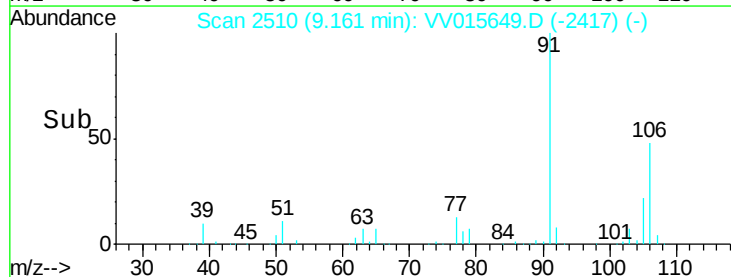
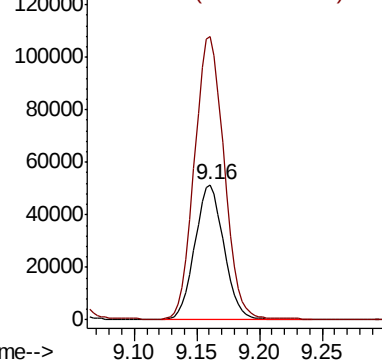
Ion Ratio Lower Upper

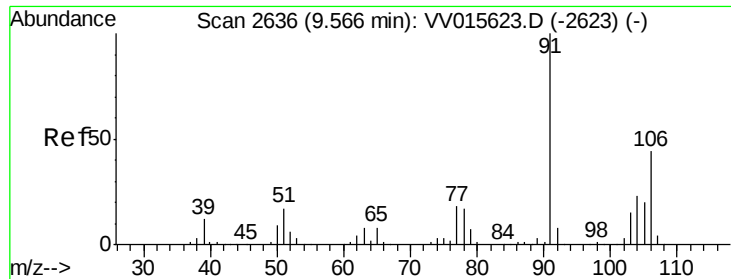
106 100

91 209.7 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VV015649.D (-2417) (-)

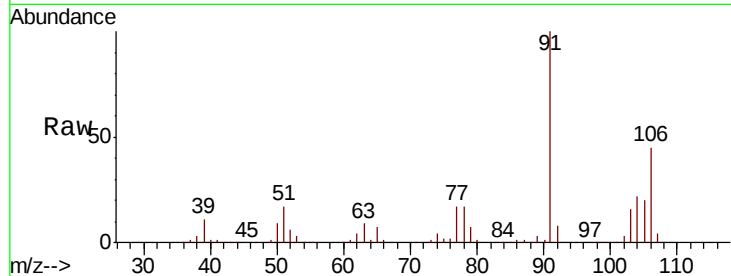




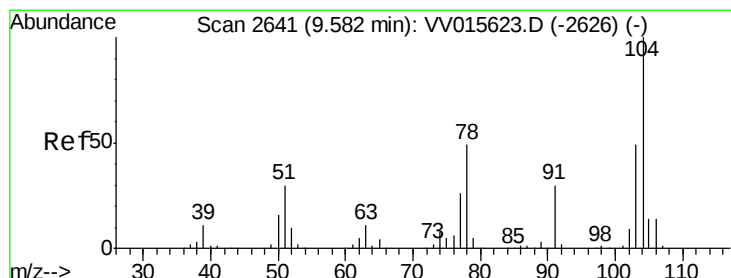
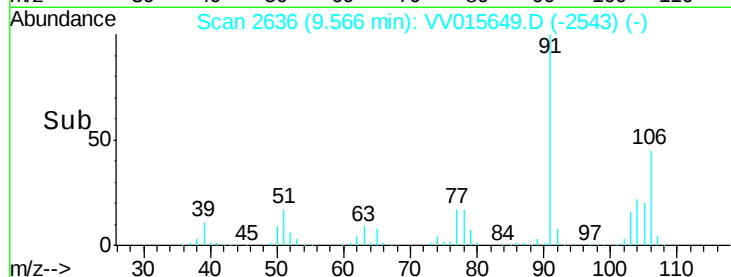
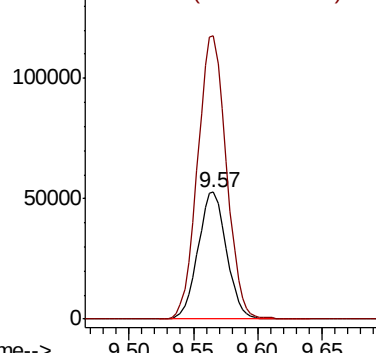
#54  
o-xylene  
Concen: 5.310 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 81075  
Ion Ratio Lower Upper  
106 100  
91 222.6 159.8 296.8

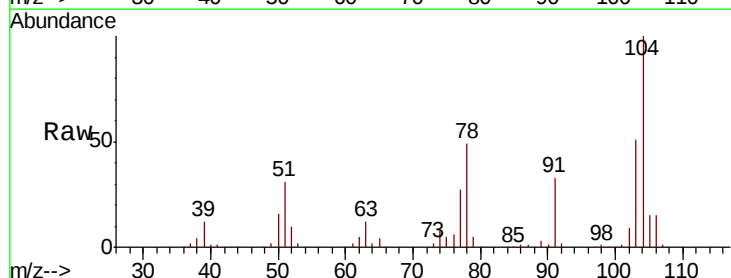


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VV0

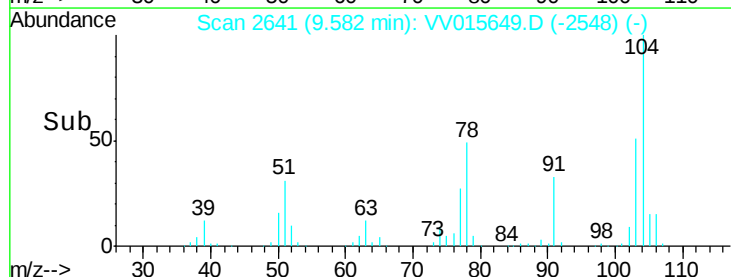
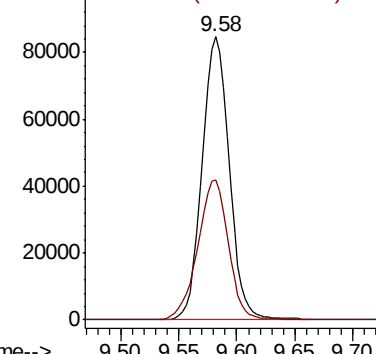


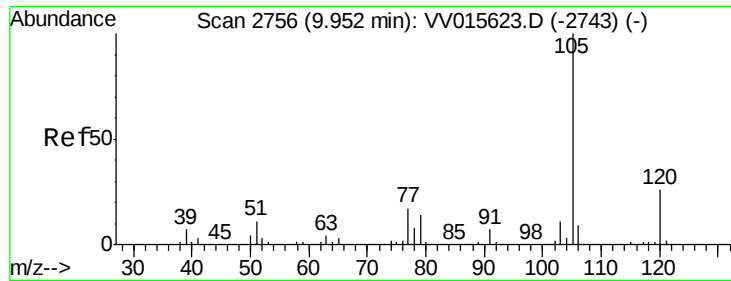
#55  
Styrene  
Concen: 5.279 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. -0.00 min  
Lab File: VV015649.D  
Acq: 23 Apr 2020 02:15

Tgt Ion:104 Resp: 136753  
Ion Ratio Lower Upper  
104 100  
78 49.5 34.5 64.1



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





#56

Isopropylbenzene

Concen: 5.193 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :  
MSVOA\_V  
ClientSampleId :

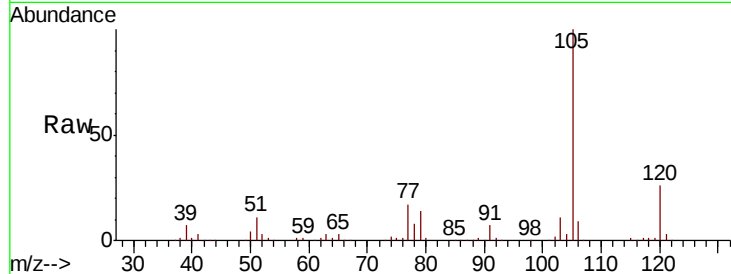
Tot Ion:105 Resp: 222438

Ion Ratio Lower Upper

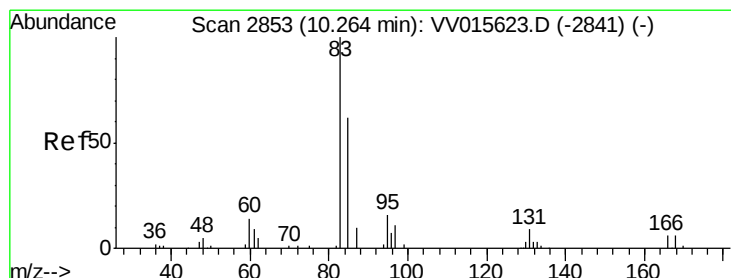
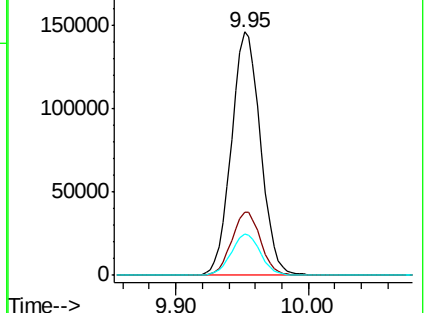
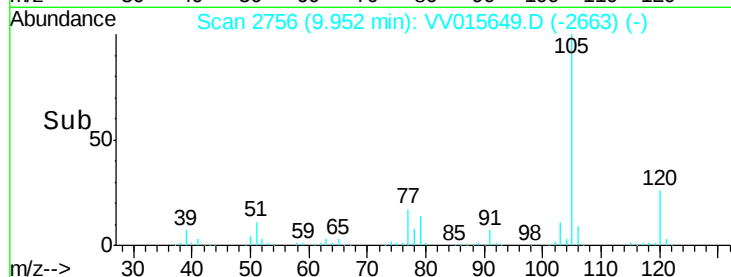
105 100

120 25.8 20.7 31.1

77 17.0 13.9 20.9



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: 5.303 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

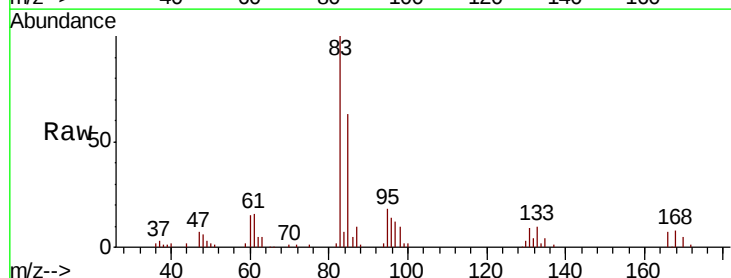
Tgt Ion: 83 Resp: 37373

Ion Ratio Lower Upper

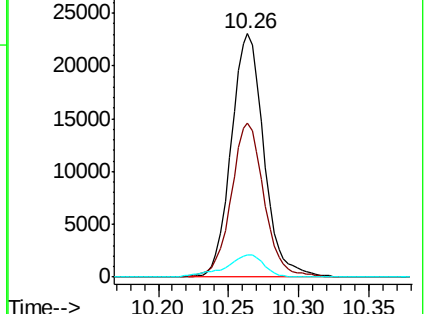
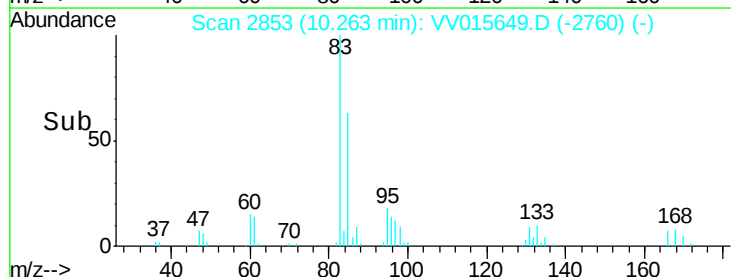
83 100

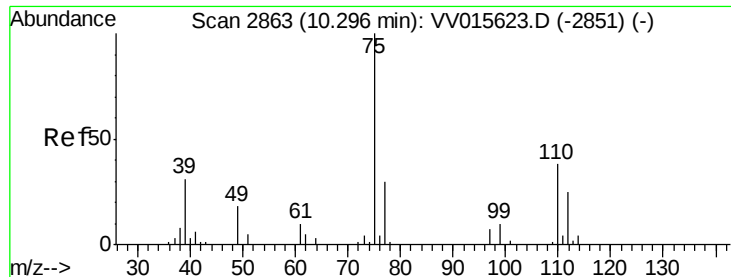
85 63.5 46.3 85.9

131 9.2 7.7 11.5



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: 5.281 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

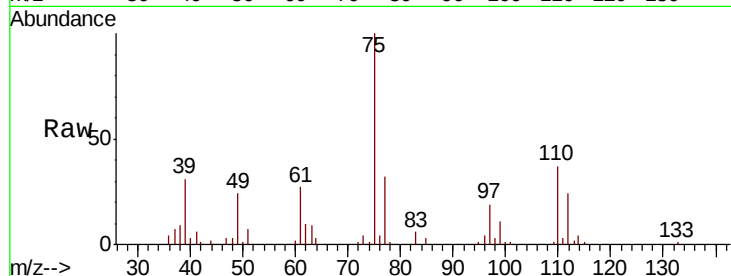
ClientSampleId :

Tot Ion: 75 Resp: 29855

Ion Ratio Lower Upper

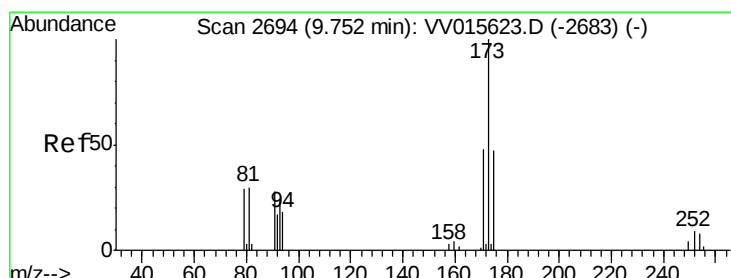
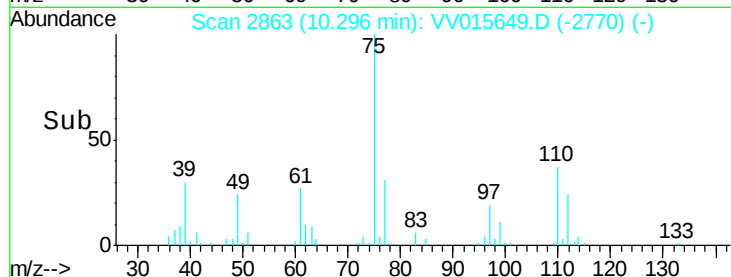
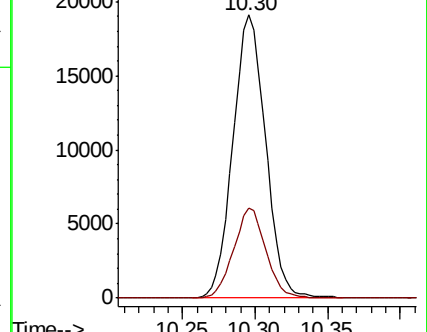
75 100

77 31.3 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VV015623.D (-2851) (-)

Ion 77.00 (76.70 to 77.70): VV015623.D (-2851) (-)



#61

Bromoform

Concen: 4.524 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

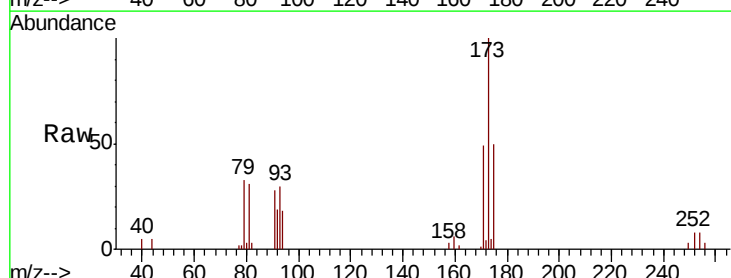
Tgt Ion:173 Resp: 11861

Ion Ratio Lower Upper

173 100

175 47.7 39.8 59.8

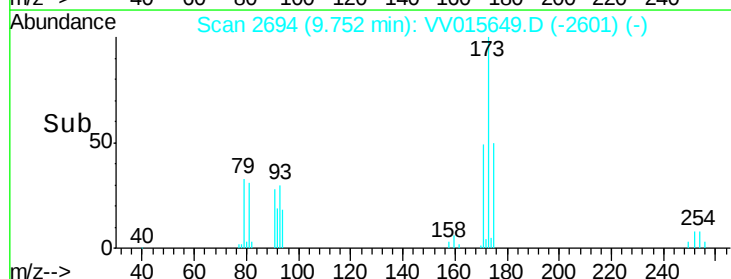
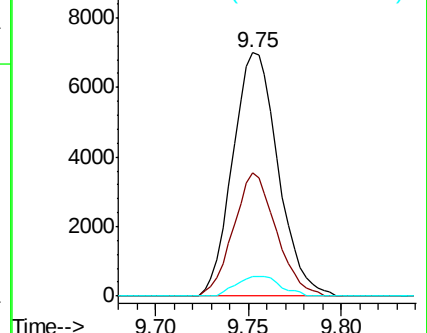
254 7.8 5.8 8.8

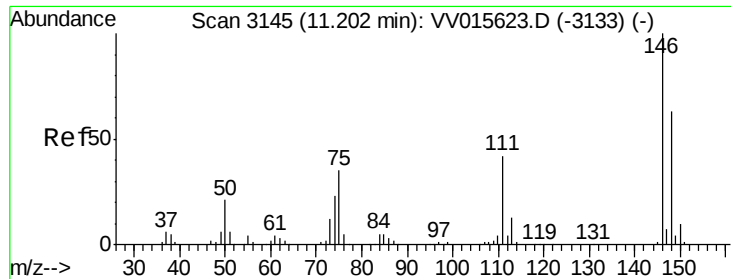


Abundance Ion 172.90 (172.60 to 173.60): VV015623.D (-2683) (-)

Ion 174.90 (174.60 to 175.60): VV015623.D (-2683) (-)

Ion 253.75 (253.45 to 254.45): VV015623.D (-2683) (-)





#62

1,3-Dichlorobenzene

Concen: 4.994 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

ClientSampled :

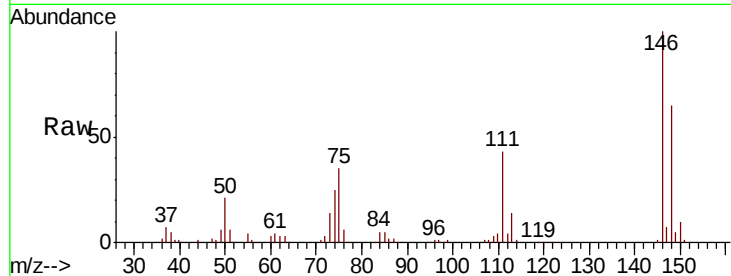
Tot Ion:146 Resp: 100396

Ion Ratio Lower Upper

146 100

111 42.8 30.0 55.6

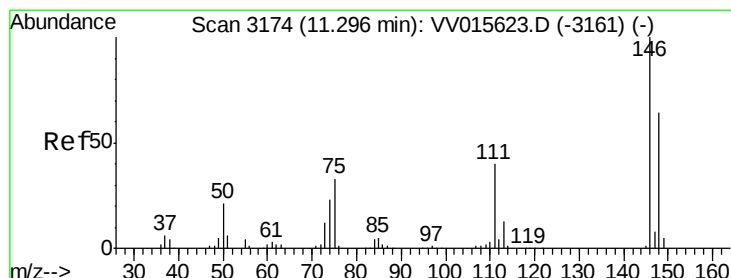
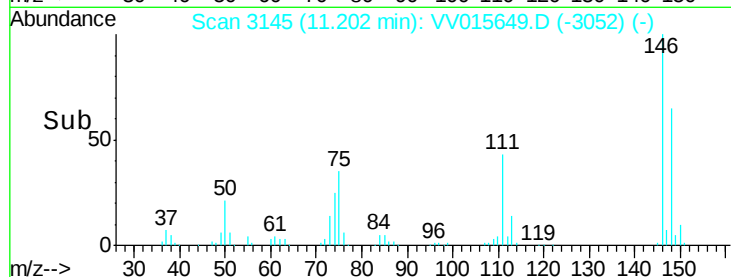
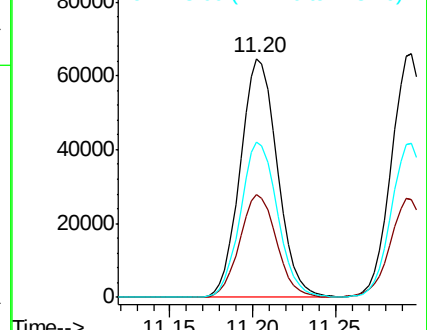
148 65.3 44.2 82.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.996 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

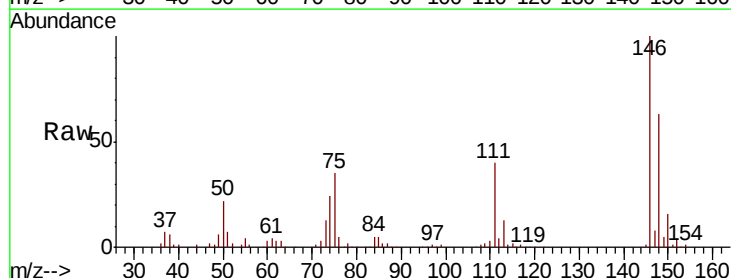
Tgt Ion:146 Resp: 101279

Ion Ratio Lower Upper

146 100

111 40.2 28.2 52.4

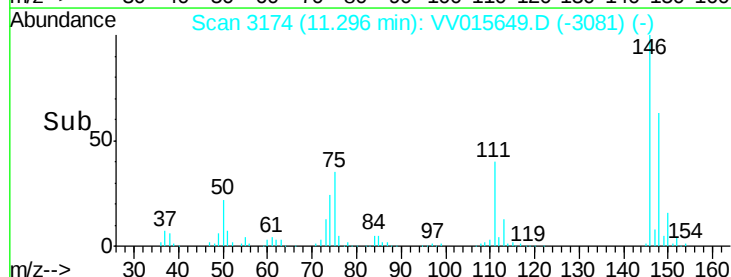
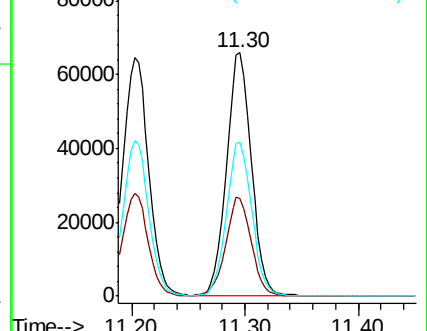
148 63.2 45.7 84.9

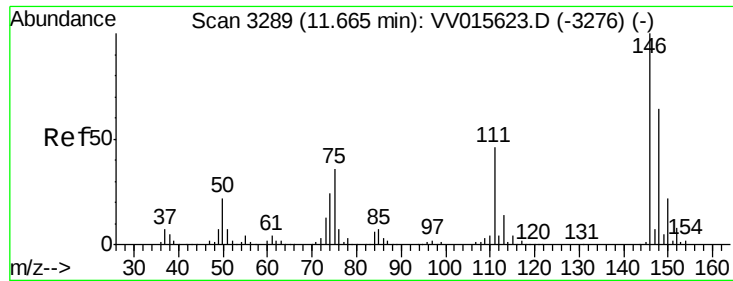


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.055 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

ClientSampleId :

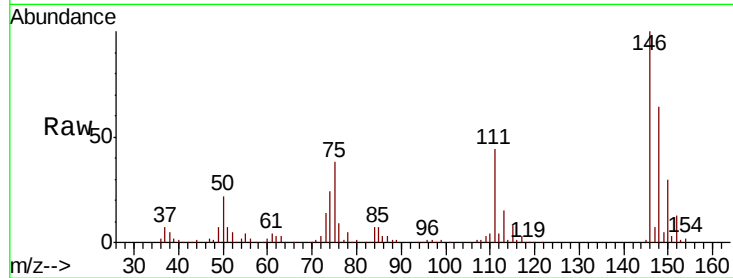
Tot Ion:146 Resp: 91912

Ion Ratio Lower Upper

146 100

111 44.3 34.7 52.1

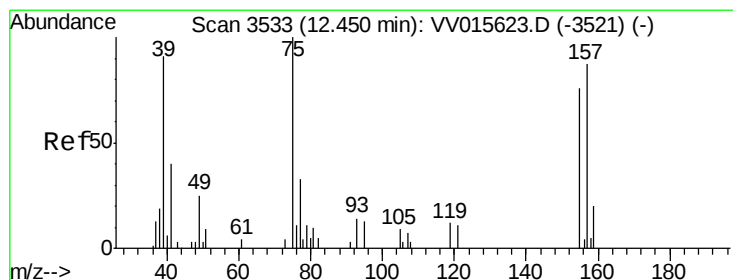
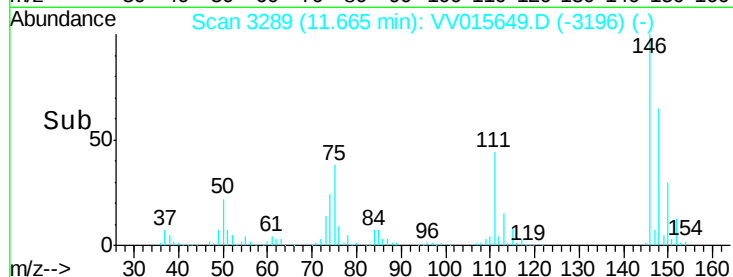
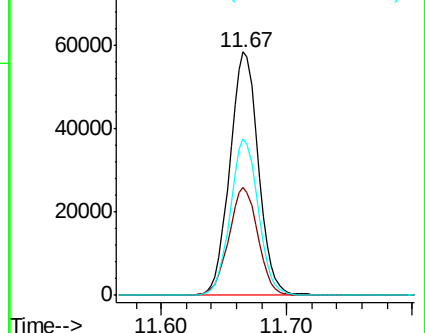
148 64.5 51.3 76.9



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: 5.157 ug/L

RT: 12.45 min Scan# 3534

Delta R.T. 0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

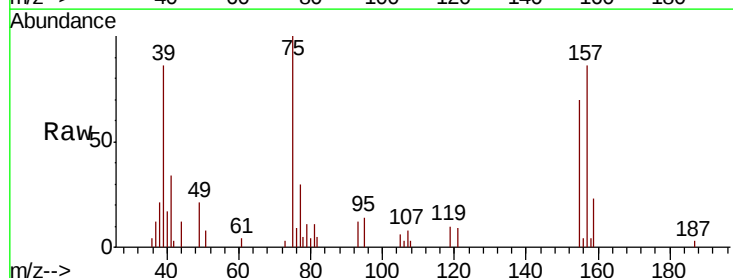
Tgt Ion: 75 Resp: 6109

Ion Ratio Lower Upper

75 100

155 69.9 51.0 76.4

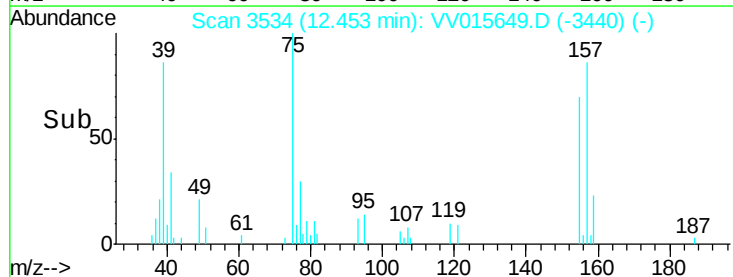
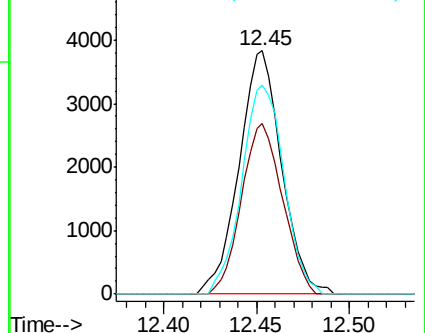
157 85.7 70.6 106.0

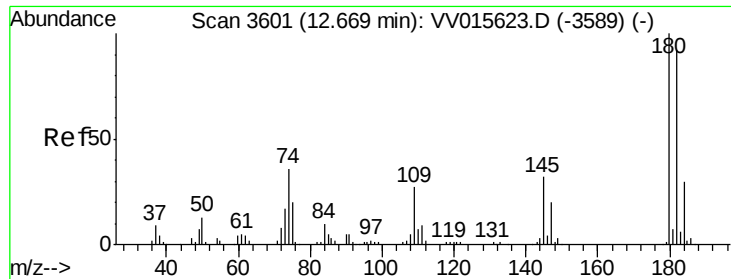


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

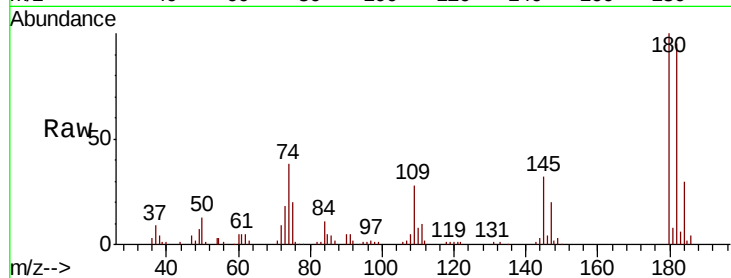




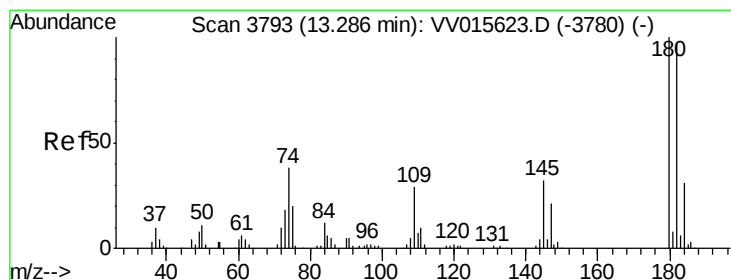
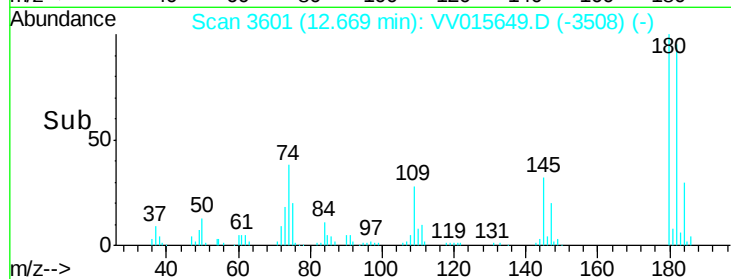
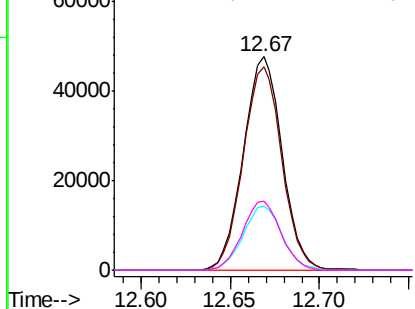
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.865 ug/L  
 RT: 12.67 min Scan# 3601  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Tot Ion:180 Resp: 72269  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 78.2 117.4  
 184 30.2 25.0 37.4  
 145 32.1 26.4 39.6

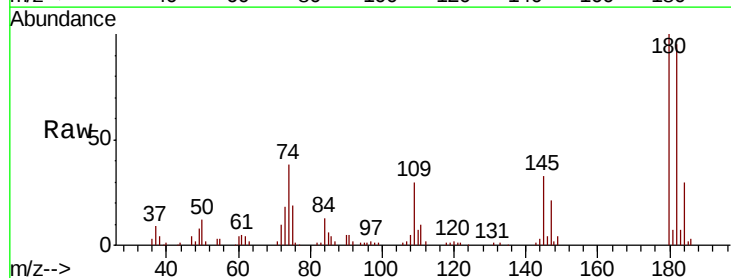


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

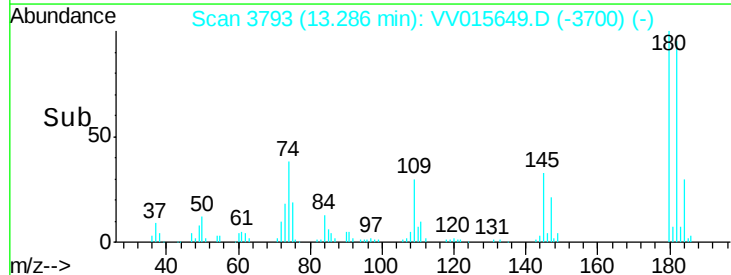
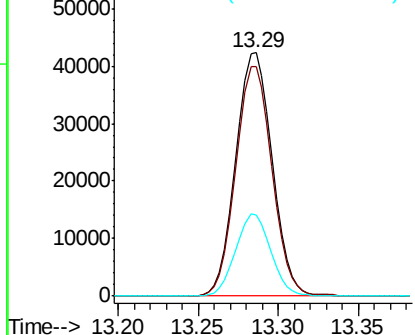


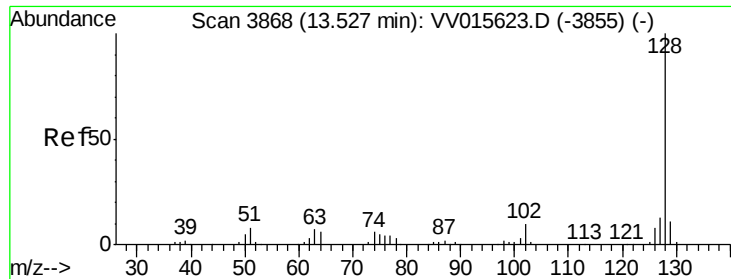
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.803 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV015649.D  
 Acq: 23 Apr 2020 02:15

Tgt Ion:180 Resp: 65674  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 74.8 112.2  
 145 32.5 25.9 38.9



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





#69

Naphthalene

Concen: 4.720 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

Instrument :

MSVOA\_V

ClientSampleId :

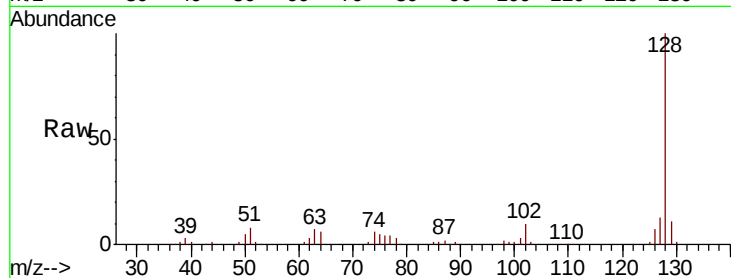
Tot Ion:128 Resp: 115514

Ion Ratio Lower Upper

128 100

129 10.5 8.4 12.6

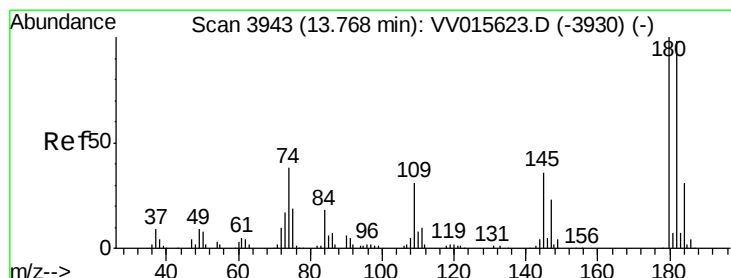
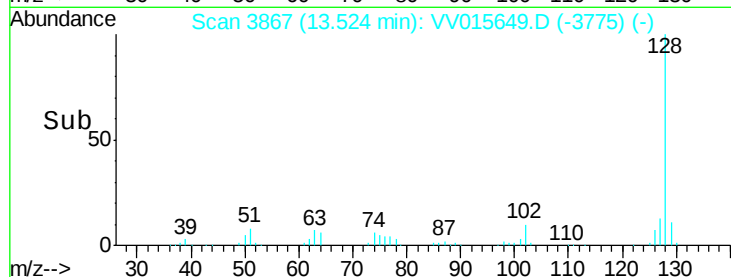
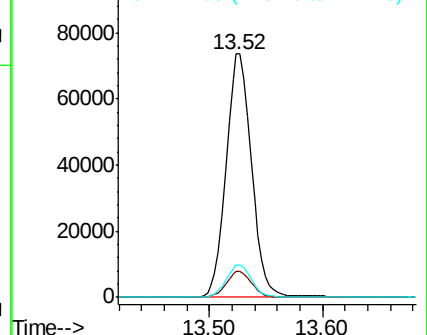
127 13.3 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.851 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV015649.D

Acq: 23 Apr 2020 02:15

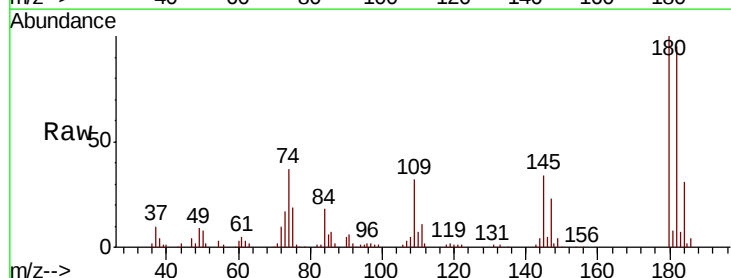
Tgt Ion:180 Resp: 58542

Ion Ratio Lower Upper

180 100

182 94.8 74.8 112.2

145 34.7 28.4 42.6



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

