

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010521\  
 Data File : VW017790.D  
 Acq On : 05 Jan 2021 10:22  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

Quant Time: Jan 06 00:28:12 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SFAMWLM123020SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Mon Jan 04 17:35:03 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 314790   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 284812   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 149008   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 116035   | 21.69    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.76% |
| 7) Chloroethane-d5             | 2.89   | 69    | 96794    | 20.81    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.24% |
| 11) 1,1-Dichloroethene-d2      | 4.02   | 63    | 209473   | 23.26    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.04% |
| 21) 2-Butanone-d5              | 7.07   | 46    | 47853    | 35.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 70.82% |
| 24) Chloroform-d               | 7.65   | 84    | 208064   | 23.31    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.24% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 115031   | 22.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 88.96% |
| 32) Benzene-d6                 | 8.27   | 84    | 397590   | 24.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.36% |
| 36) 1,2-Dichloropropane-d6     | 9.27   | 67    | 114274   | 24.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.80% |
| 41) Toluene-d8                 | 10.32  | 98    | 376562   | 23.78    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.12% |
| 43) trans-1,3-Dichloropropene- | 10.58  | 79    | 53273    | 23.72    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.88% |
| 47) 2-Hexanone-d5              | 10.92  | 63    | 35324    | 40.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 80.08% |
| 56) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 98267    | 21.51    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 86.04% |
| 66) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 127144   | 23.01    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.04% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 84216    | 22.201 | ug/L  | 94     |
| 3) Chloromethane               | 2.21 | 50   | 76074    | 23.054 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.37 | 62   | 133518   | 24.541 | ug/L  | 100    |
| 6) Bromomethane                | 2.78 | 94   | 100864   | 20.950 | ug/L  | 98     |
| 8) Chloroethane                | 2.92 | 64   | 87769    | 24.395 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 99789    | 26.972 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 106058   | 25.011 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 102479   | 25.483 | ug/L  | 92     |
| 13) Acetone                    | 4.12 | 43   | 35404    | 38.591 | ug/L  | 95     |
| 14) Carbon disulfide           | 4.39 | 76   | 300447   | 26.061 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.66 | 43   | 43833    | 22.118 | ug/L  | 100    |
| 16) Methylene chloride         | 4.92 | 84   | 106366   | 20.960 | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 5.43 | 96   | 110863   | 25.726 | ug/L  | 95     |
| 18) Methyl tert-butyl Ether    | 5.42 | 73   | 135611   | 24.702 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 197608   | 25.883 | ug/L  | 96     |
| 20) cis-1,2-Dichloroethene     | 7.17 | 96   | 118955   | 25.797 | ug/L  | 99     |
| 22) 2-Butanone                 | 7.17 | 43   | 57498    | 37.717 | ug/L  | 97     |

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 Quant Title : SFAM01.0  
 QLast Update : Mon Jan 04 17:35:03 2021  
 Response via : Initial Calibration

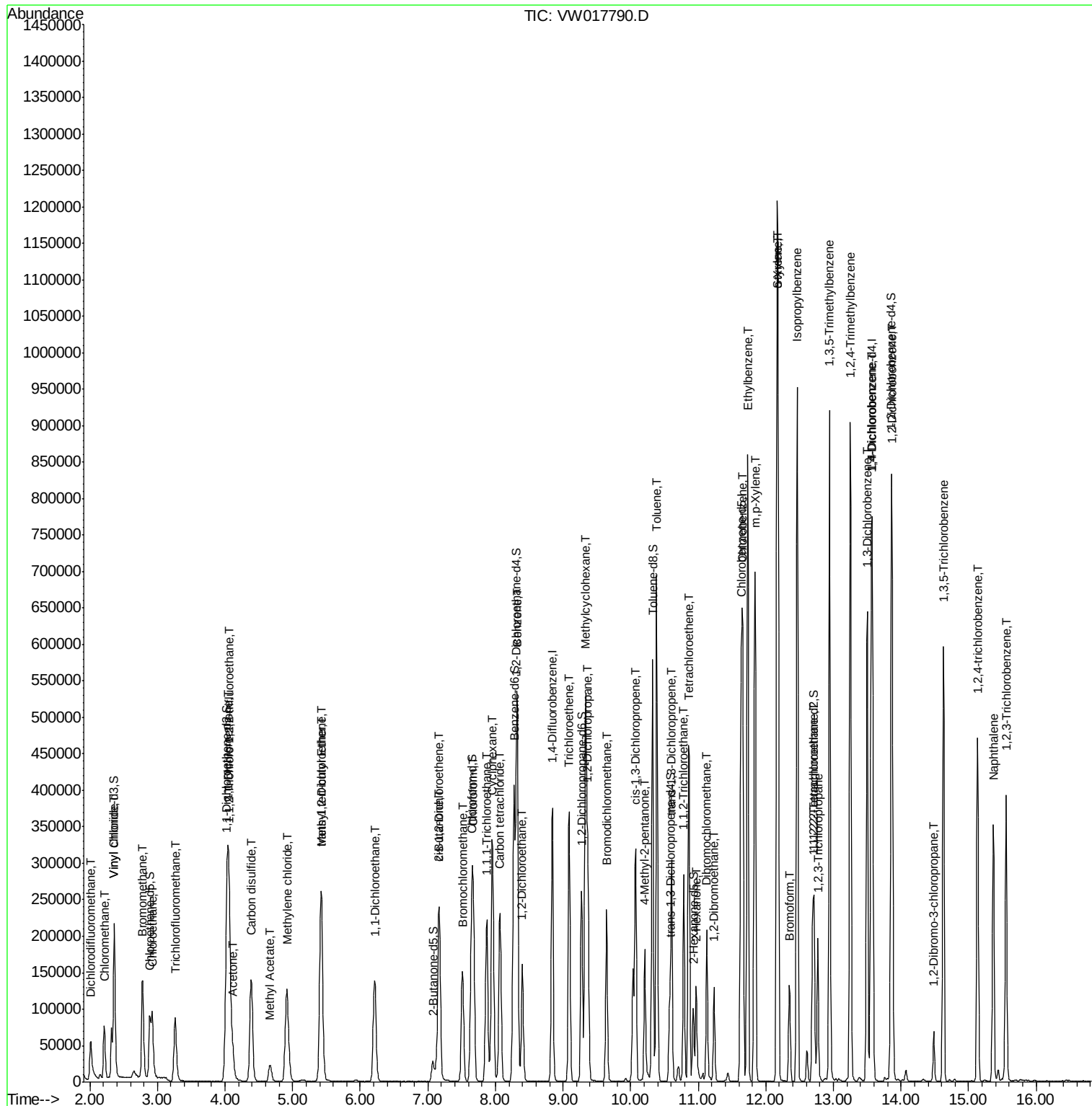
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 52228    | 24.751 | ug/L  | 96       |
| 25) Chloroform                 | 7.67  | 83   | 209315   | 25.847 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 144664   | 25.015 | ug/L  | 99       |
| 29) Cyclohexane                | 7.95  | 56   | 181261   | 27.117 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 7.87  | 97   | 175731   | 26.834 | ug/L  | 100      |
| 31) Carbon tetrachloride       | 8.07  | 117  | 167638   | 27.253 | ug/L  | 99       |
| 33) Benzene                    | 8.32  | 78   | 451594   | 27.152 | ug/L  | 100      |
| 34) Trichloroethene            | 9.09  | 95   | 123030   | 27.086 | ug/L  | 94       |
| 35) Methylcyclohexane          | 9.34  | 83   | 218772   | 28.128 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 9.37  | 63   | 109249   | 27.138 | ug/L  | 99       |
| 38) Bromodichloromethane       | 9.65  | 83   | 153836   | 27.056 | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene    | 10.07 | 75   | 180061   | 28.016 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 10.21 | 43   | 124357   | 43.521 | ug/L  | 100      |
| 42) Toluene                    | 10.38 | 91   | 507731   | 26.953 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 10.60 | 75   | 155328   | 26.503 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 10.79 | 97   | 84886    | 25.122 | ug/L  | 97       |
| 46) Tetrachloroethene          | 10.87 | 164  | 91036    | 26.154 | ug/L  | 86       |
| 48) 2-Hexanone                 | 10.97 | 43   | 84696    | 42.309 | ug/L  | 99       |
| 49) Dibromochloromethane       | 11.13 | 129  | 99866    | 25.755 | ug/L  | 92       |
| 50) 1,2-Dibromoethane          | 11.24 | 107  | 81947    | 24.545 | ug/L  | 97       |
| 51) Chlorobenzene              | 11.66 | 112  | 316932   | 26.516 | ug/L  | 99       |
| 52) Ethylbenzene               | 11.73 | 91   | 584080   | 27.150 | ug/L  | 98       |
| 53) m,p-Xylene                 | 11.84 | 106  | 227574   | 27.343 | ug/L  | 98       |
| 54) o-Xylene                   | 12.16 | 106  | 210539   | 26.802 | ug/L  | 99       |
| 55) Styrene                    | 12.18 | 104  | 367005   | 27.306 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 102167   | 23.255 | ug/L  | 97       |
| 59) Bromoform                  | 12.35 | 173  | 53532    | 24.000 | ug/L  | 98       |
| 60) Isopropylbenzene           | 12.46 | 105  | 601950   | 27.678 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane     | 12.77 | 75   | 77048    | 23.534 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 484058   | 27.978 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 481316   | 27.336 | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene        | 13.50 | 146  | 251322   | 26.768 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 13.58 | 146  | 242821   | 26.036 | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene        | 13.87 | 146  | 223214   | 26.494 | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 17022    | 21.727 | ug/L  | 91       |
| 69) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 168277   | 26.491 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 15.13 | 180  | 140457   | 25.538 | ug/L  | 98       |
| 71) Naphthalene                | 15.36 | 128  | 292857   | 23.107 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 119093   | 24.636 | ug/L  | 98       |

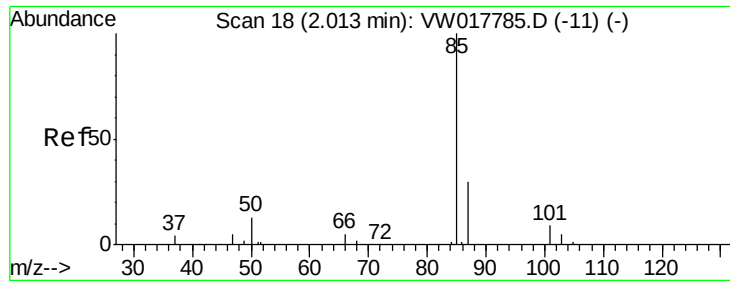
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Quant Title : SFAM01.0  
QLast Update : Mon Jan 04 17:35:03 2021  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 22.201 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

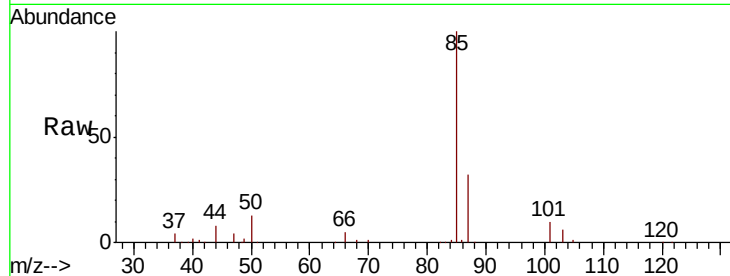
VSTD025110

Tot Ion: 85 Resp: 84216

Ion Ratio Lower Upper

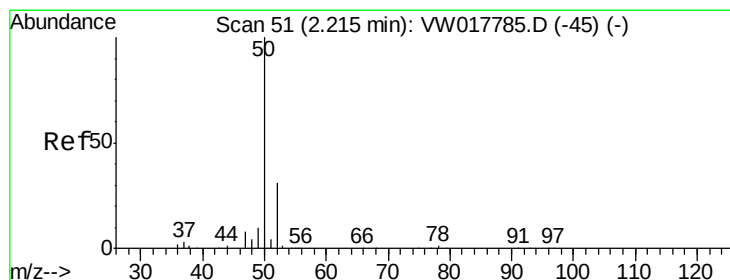
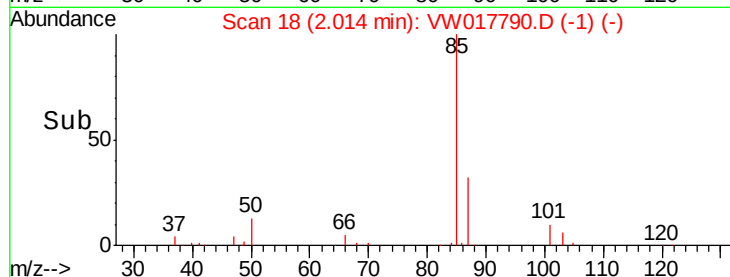
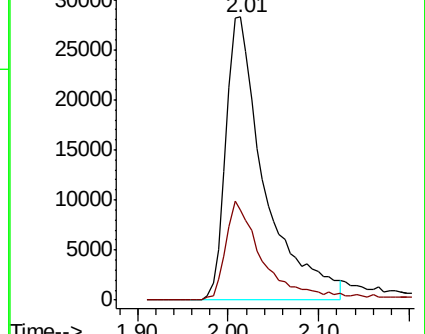
85 100

87 32.2 23.3 34.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.054 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW017790.D

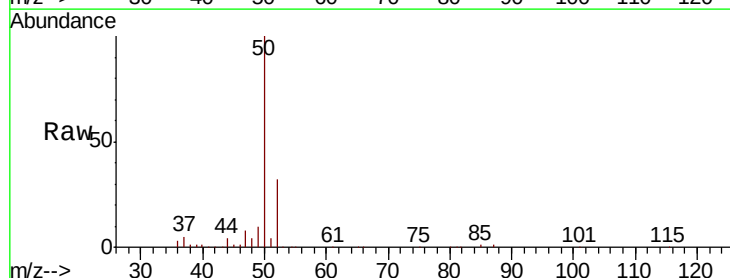
Acq: 05 Jan 2021 10:22

Tgt Ion: 50 Resp: 76074

Ion Ratio Lower Upper

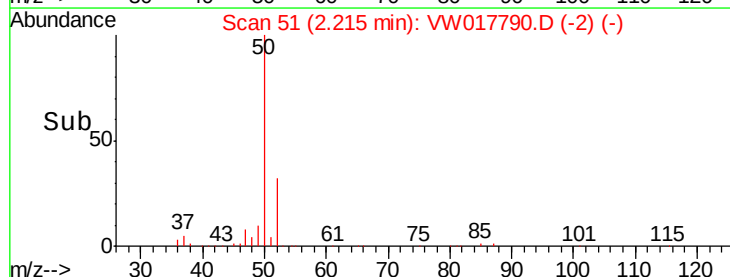
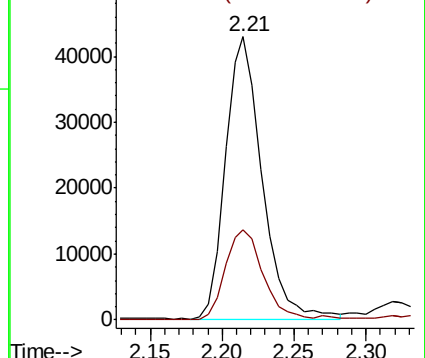
50 100

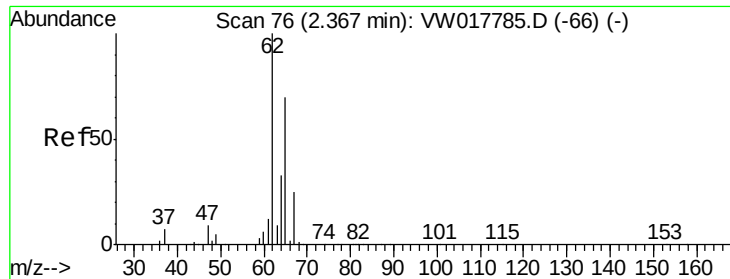
52 32.0 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.541 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

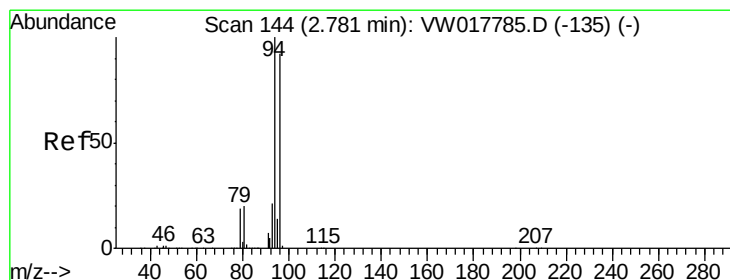
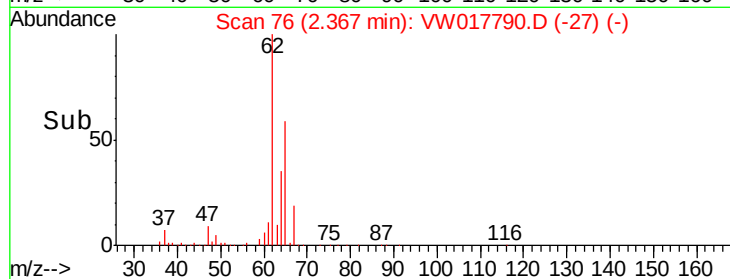
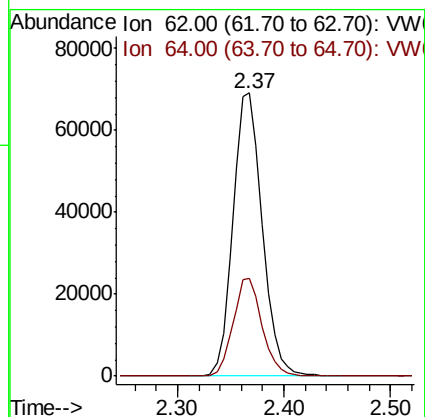
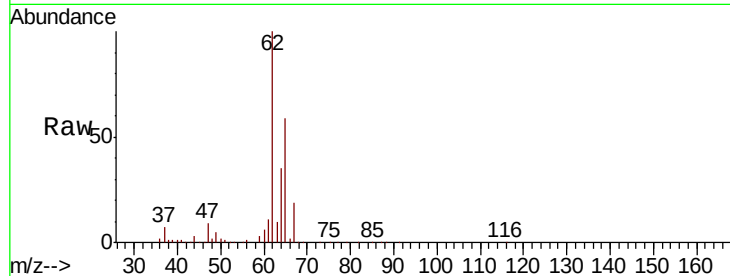
VSTD025110

Tot Ion: 62 Resp: 133518

Ion Ratio Lower Upper

62 100

64 34.6 24.2 45.0



#6

Bromomethane

Concen: 20.950 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW017790.D

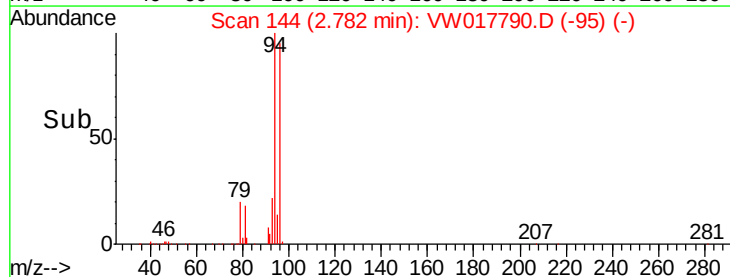
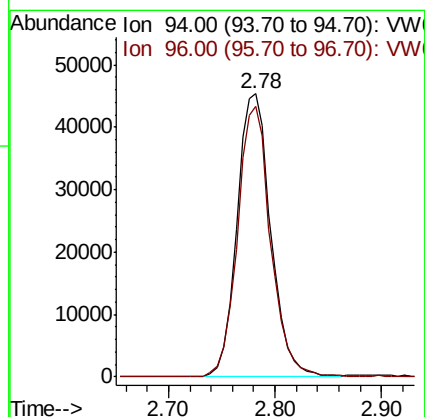
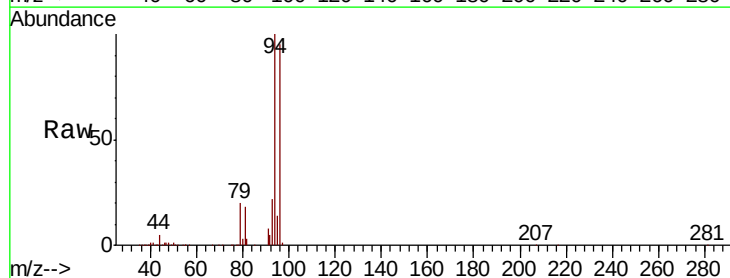
Acq: 05 Jan 2021 10:22

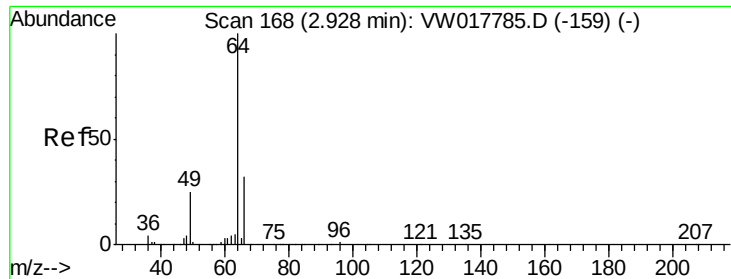
Tgt Ion: 94 Resp: 100864

Ion Ratio Lower Upper

94 100

96 95.5 65.3 121.3





#8

Chloroethane

Concen: 24.395 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

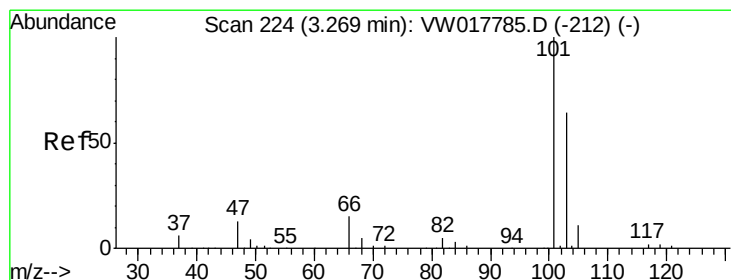
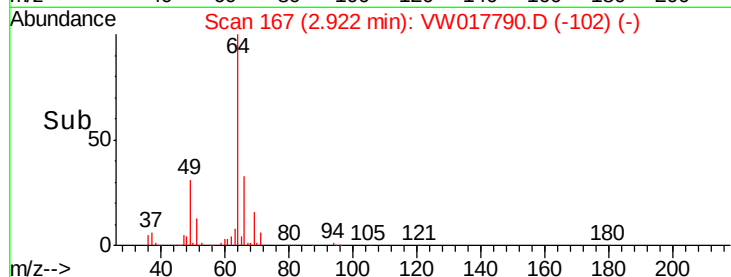
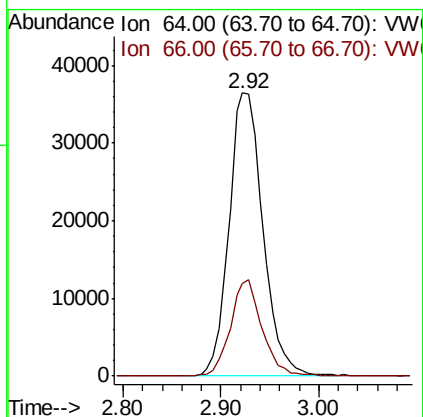
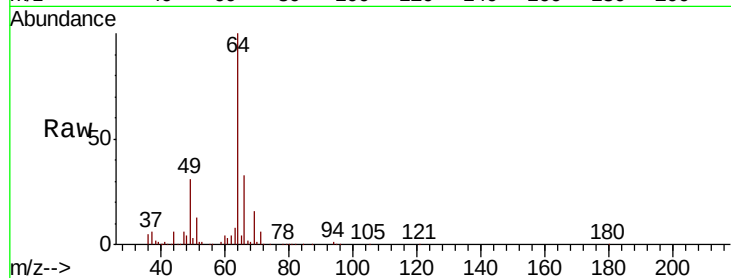
VSTD025110

Tot Ion: 64 Resp: 87769

Ion Ratio Lower Upper

64 100

66 32.6 23.4 43.6



#9

Trichlorofluoromethane

Concen: 26.972 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.01 min

Lab File: VW017790.D

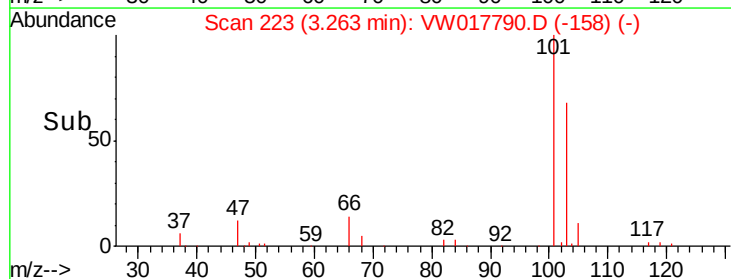
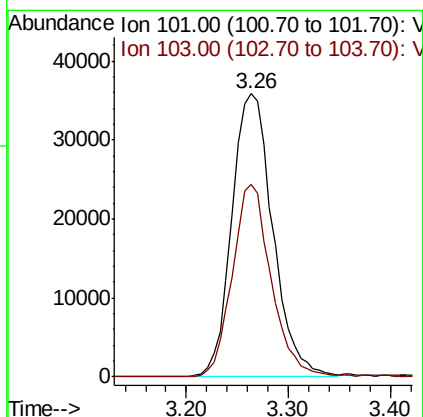
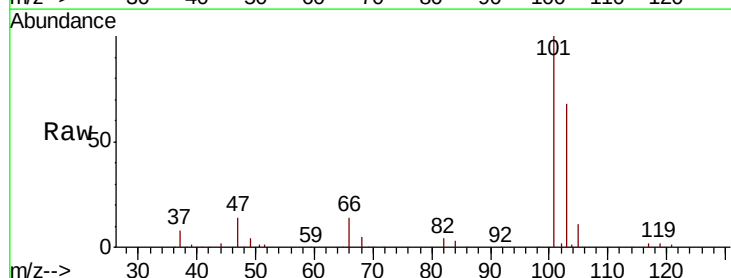
Acq: 05 Jan 2021 10:22

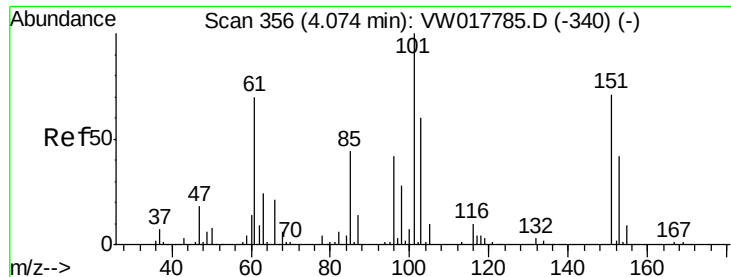
Tgt Ion: 101 Resp: 99789

Ion Ratio Lower Upper

101 100

103 64.5 51.0 76.4





#10

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

Concen: 25.011 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

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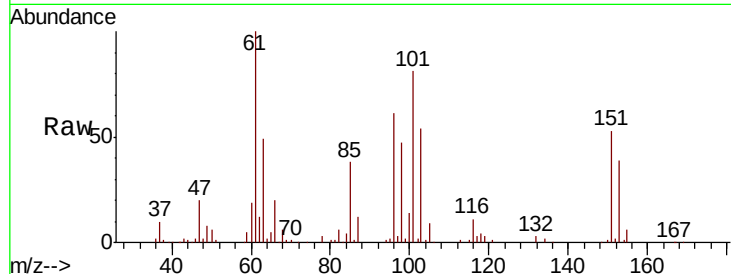
Tot Ion:101 Resp: 106058

Ion Ratio Lower Upper

101 100

85 47.9 38.2 57.2

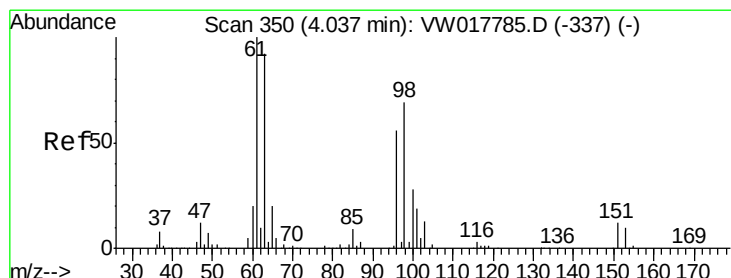
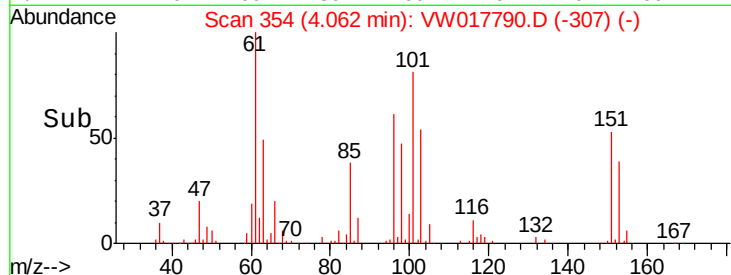
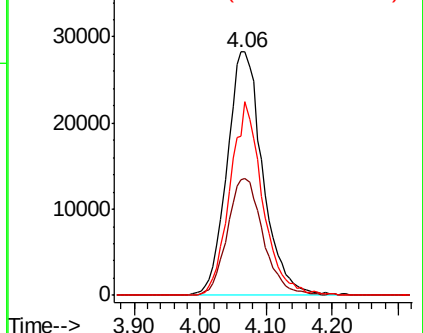
151 72.0 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.483 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

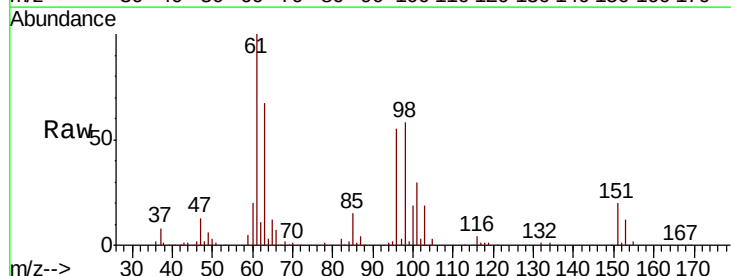
Tgt Ion: 96 Resp: 102479

Ion Ratio Lower Upper

96 100

61 183.4 118.1 219.3

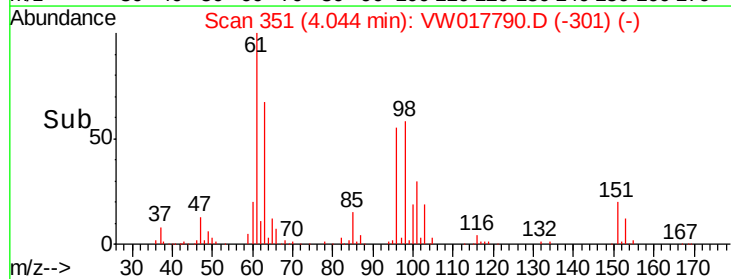
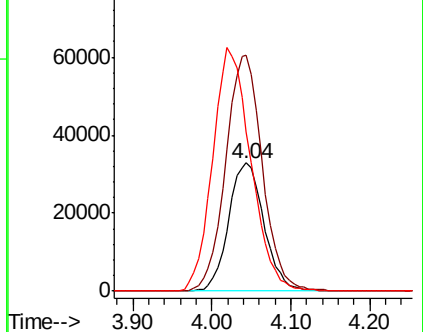
63 123.7 83.7 155.5

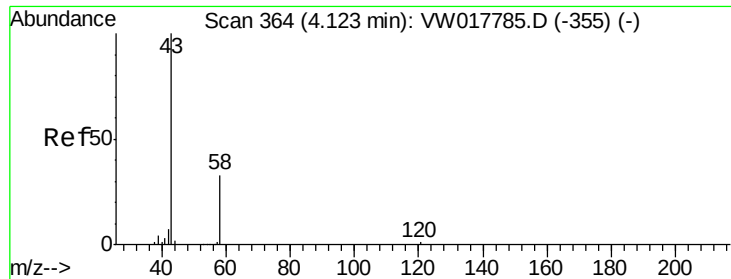


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 38.591 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampled :

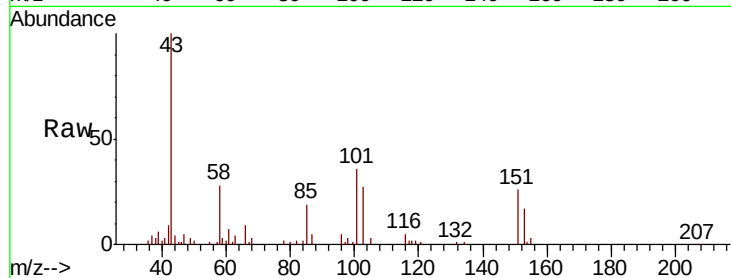
VSTD025110

Tot Ion: 43 Resp: 35404

Ion Ratio Lower Upper

43 100

58 29.7 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

15000

10000

5000

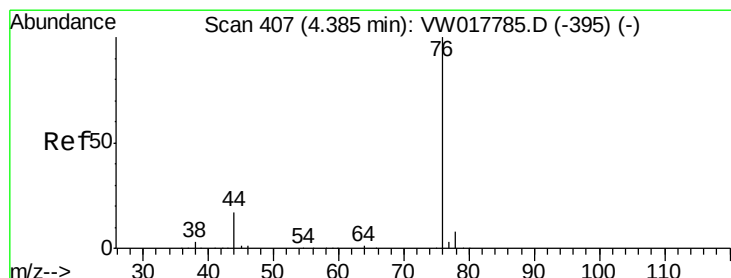
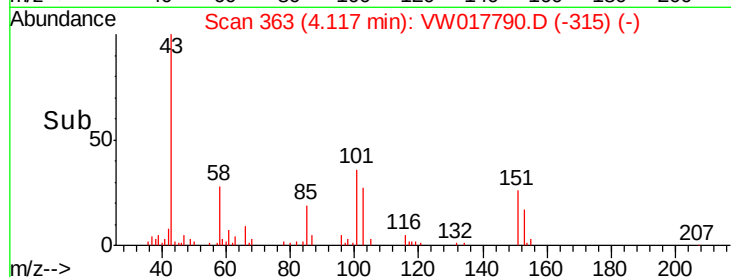
0

Time-->

4.00

4.10

4.20



#14

Carbon disulfide

Concen: 26.061 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW017790.D

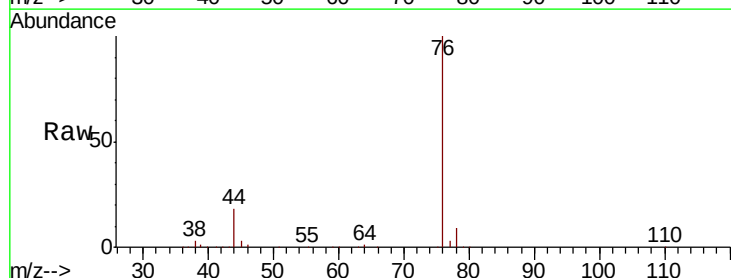
Acq: 05 Jan 2021 10:22

Tgt Ion: 76 Resp: 300447

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

100000

80000

60000

40000

20000

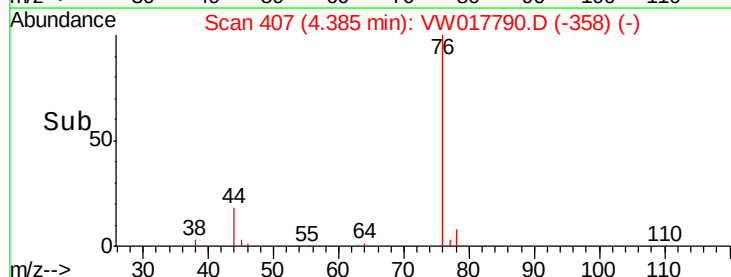
0

Time-->

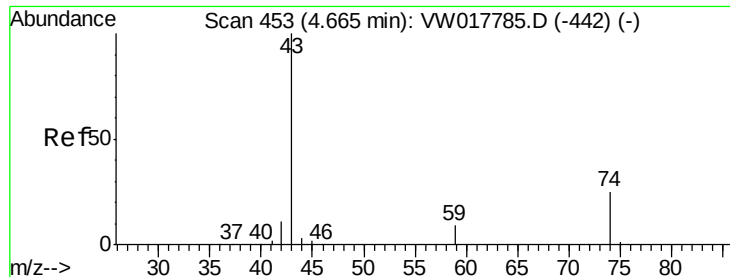
4.30

4.40

4.50



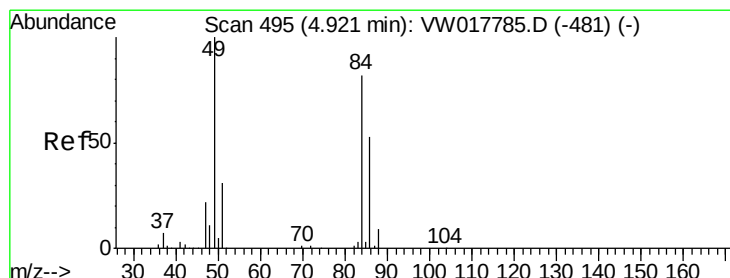
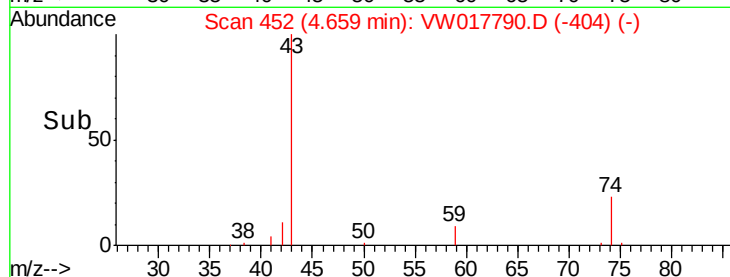
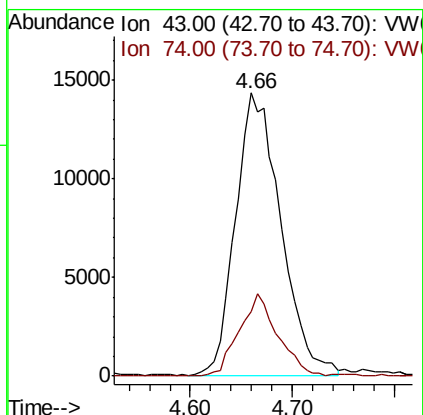
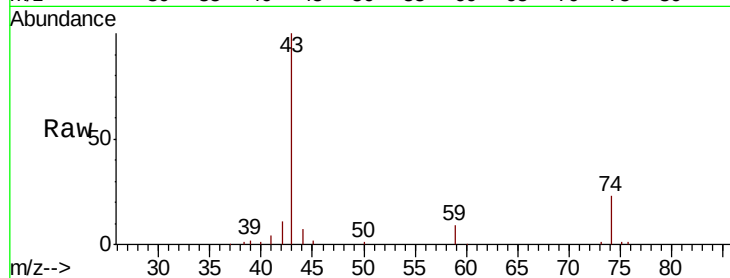




#15  
Methyl Acetate  
Concen: 22.118 ug/L  
RT: 4.66 min Scan# 452  
Delta R.T. -0.01 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

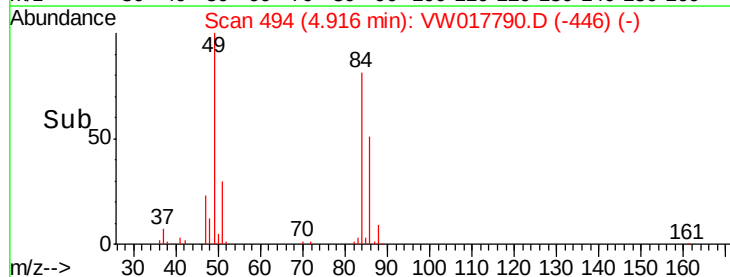
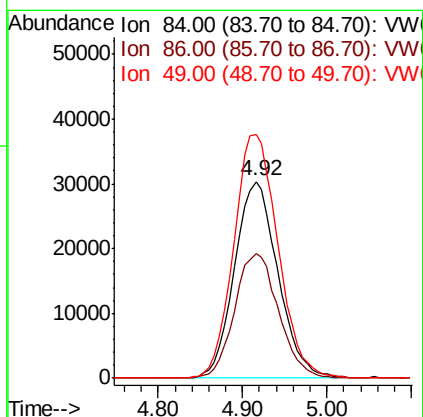
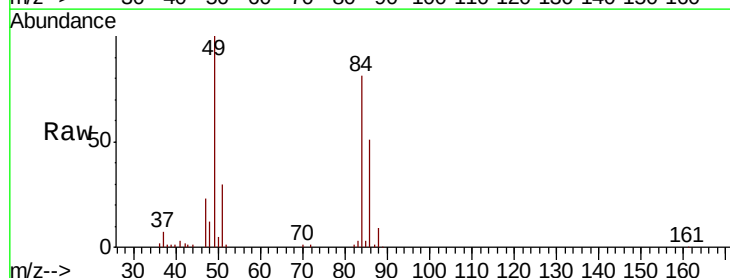
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD025110

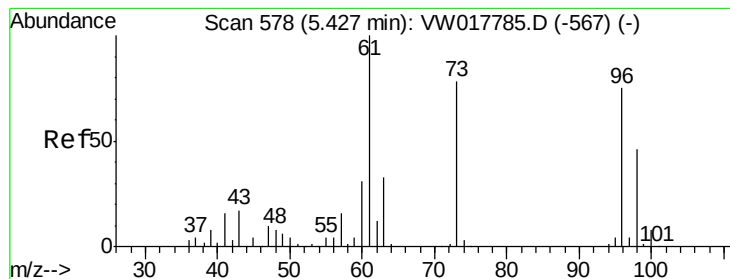
Tot Ion: 43 Resp: 43833  
Ion Ratio Lower Upper  
43 100  
74 25.0 20.0 30.0



#16  
Methylene chloride  
Concen: 20.960 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion: 84 Resp: 106366  
Ion Ratio Lower Upper  
84 100  
86 63.2 45.3 84.1  
49 124.0 86.6 160.8





#17

trans-1,2-Dichloroethene

Concen: 25.726 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025110

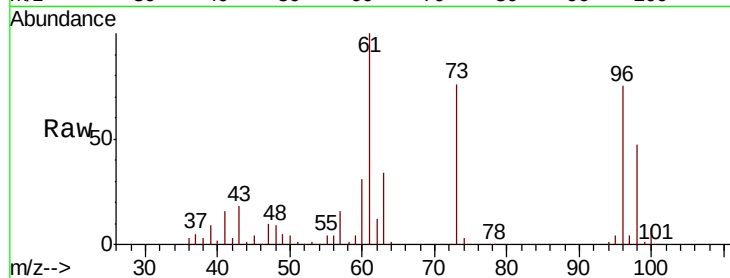
Tot Ion: 96 Resp: 110863

Ion Ratio Lower Upper

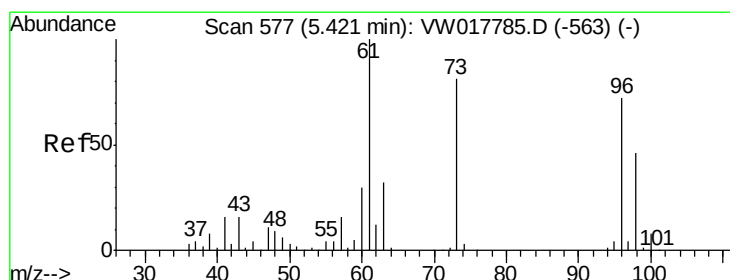
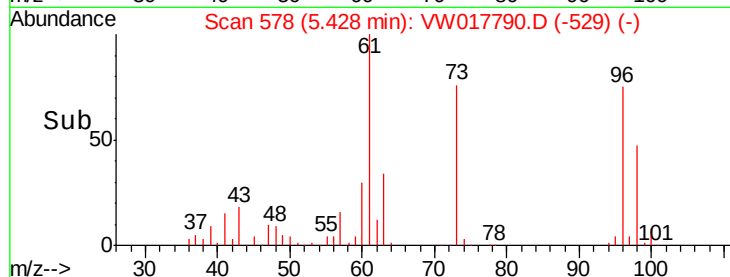
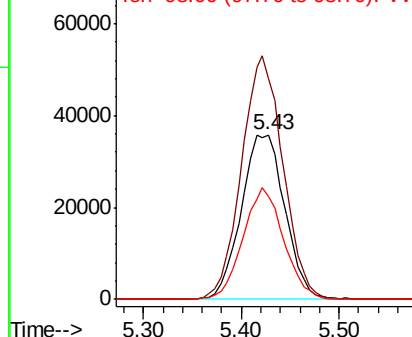
96 100

61 133.6 98.3 182.7

98 62.6 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



#18

Methyl tert-butyl Ether

Concen: 24.702 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

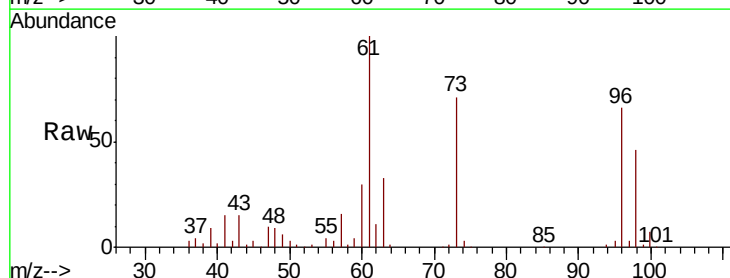
Tgt Ion: 73 Resp: 135611

Ion Ratio Lower Upper

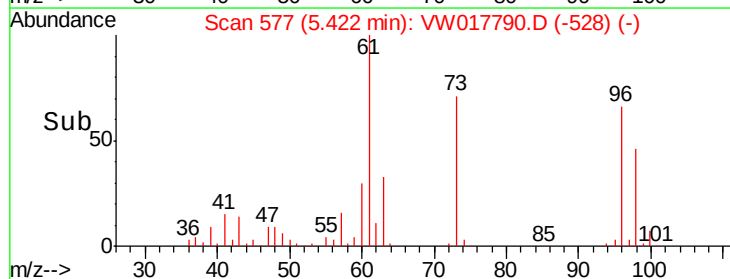
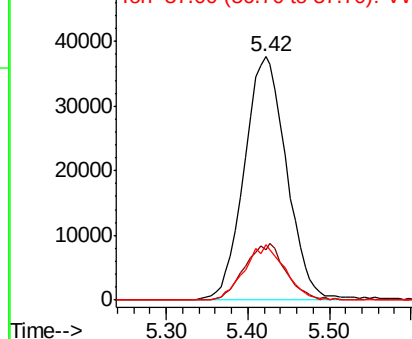
73 100

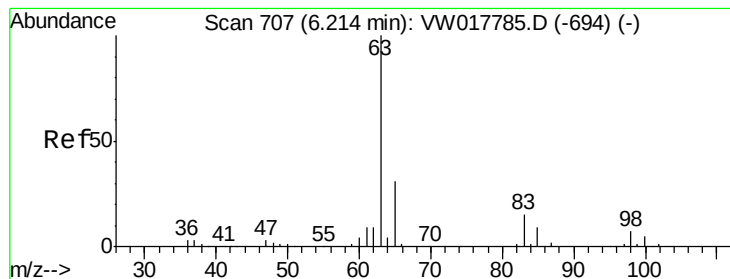
43 22.6 17.7 26.5

57 21.7 17.0 25.4



Abundance Ion 73.00 (72.70 to 73.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 57.00 (56.70 to 57.70): VW





#19

1,1-Dichloroethane

Concen: 25.883 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025110

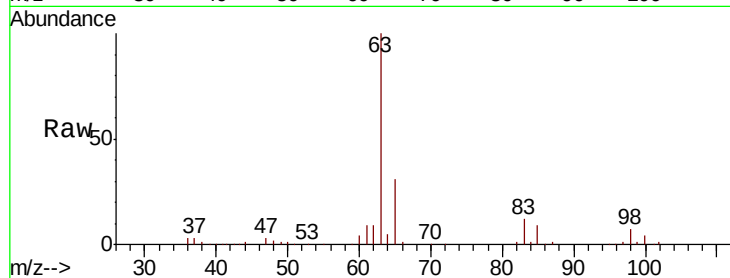
Tot Ion: 63 Resp: 197608

Ion Ratio Lower Upper

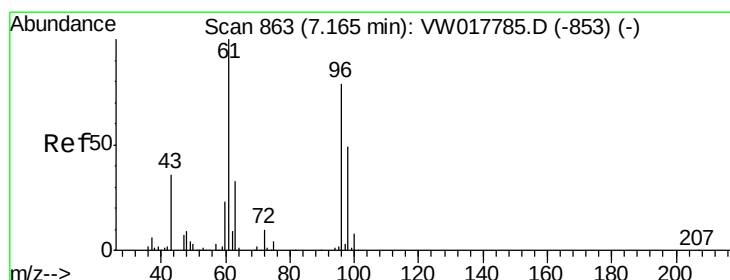
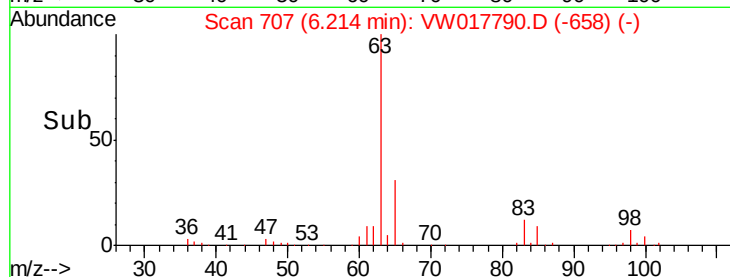
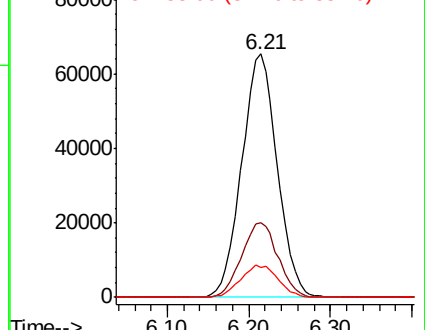
63 100

65 30.7 22.9 42.5

83 12.5 10.2 19.0



Abundance Ion 63.00 (62.70 to 63.70): VW  
Ion 65.00 (64.70 to 65.70): VW  
Ion 83.00 (82.70 to 83.70): VW



#20

cis-1,2-Dichloroethene

Concen: 25.797 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

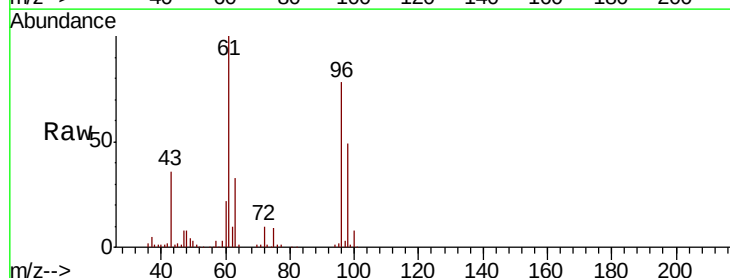
Tgt Ion: 96 Resp: 118955

Ion Ratio Lower Upper

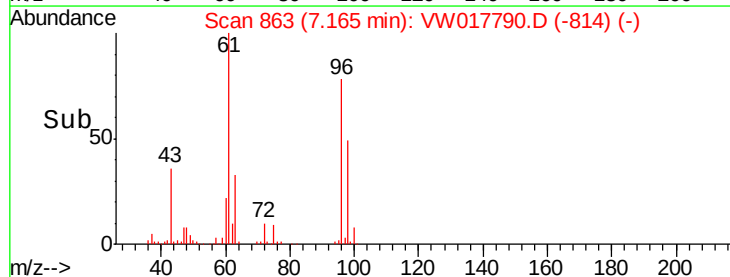
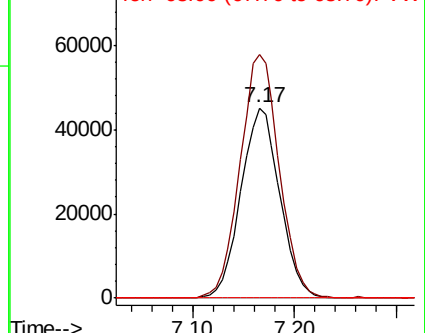
96 100

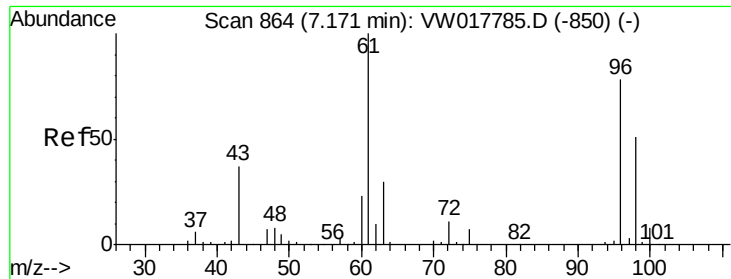
61 128.0 88.5 164.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 68.00 (67.70 to 68.70): VW





#22

2-Butanone

Concen: 37.717 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

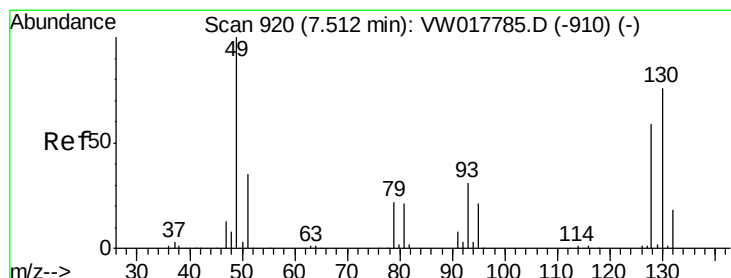
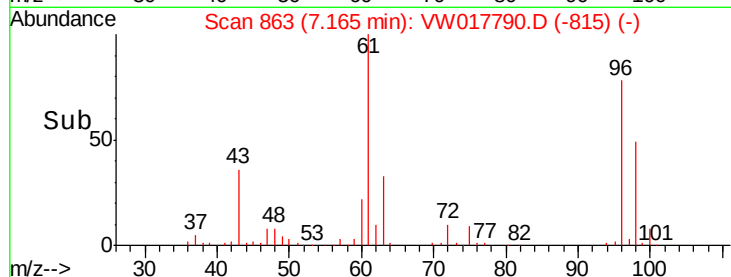
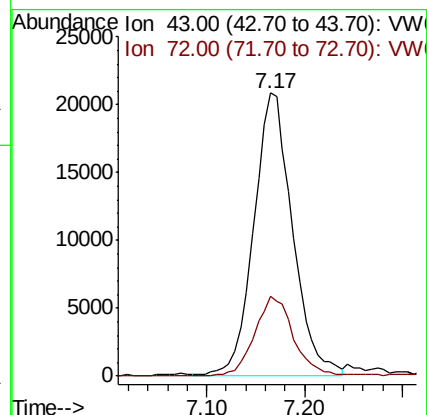
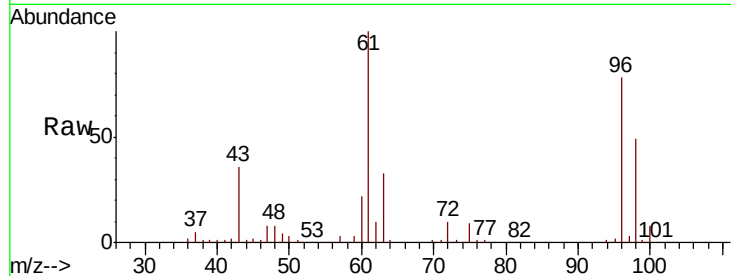
VSTD025110

Tot Ion: 43 Resp: 57498

Ion Ratio Lower Upper

43 100

72 28.1 14.9 44.7



#23

Bromochloromethane

Concen: 24.751 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Tgt Ion:128 Resp: 52228

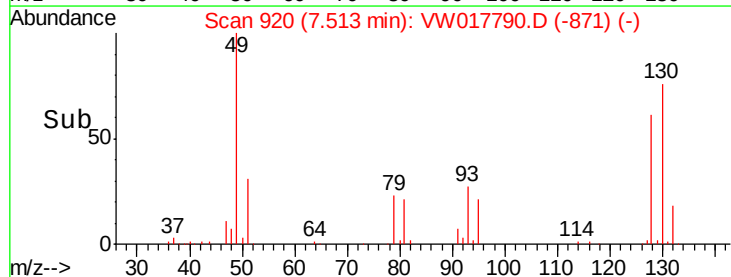
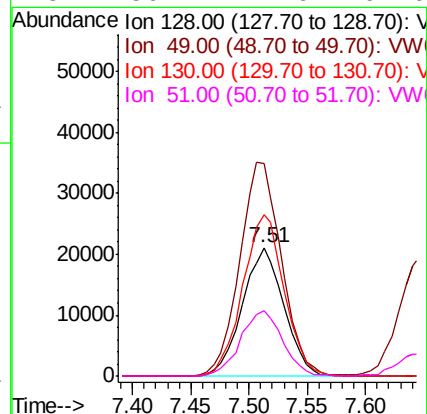
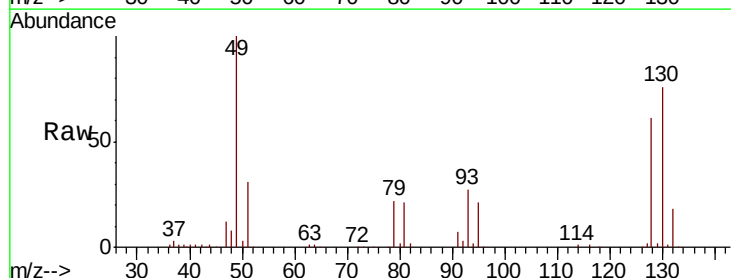
Ion Ratio Lower Upper

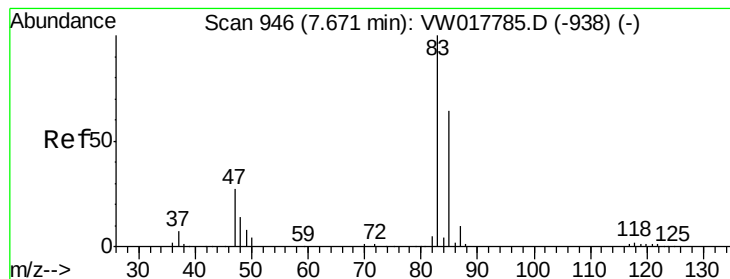
128 100

49 164.9 116.3 215.9

130 125.4 82.4 153.0

51 50.4 42.6 64.0





#25

Chloroform

Concen: 25.847 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

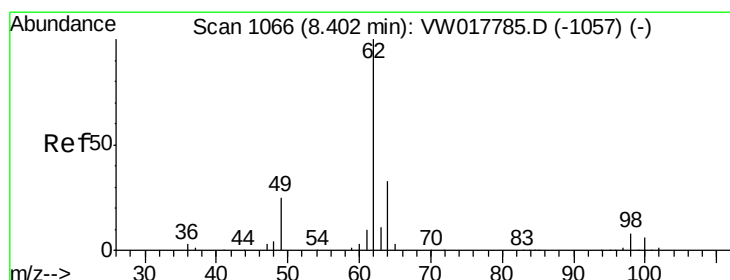
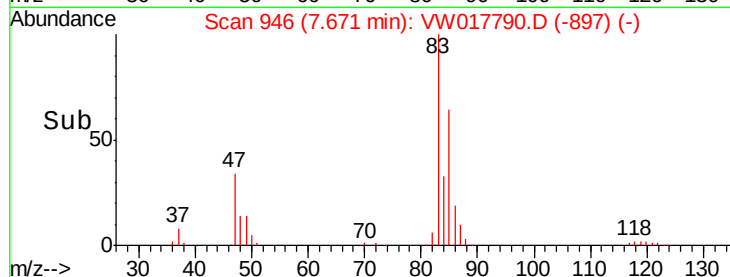
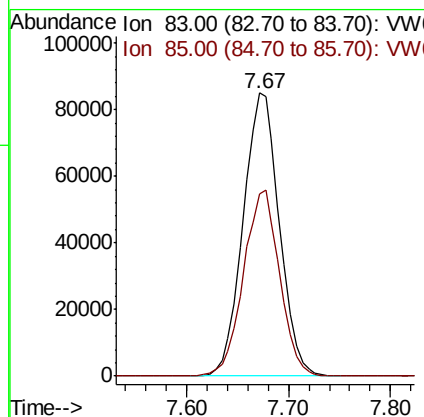
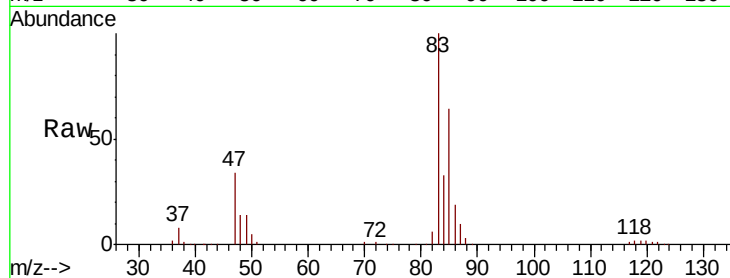
VSTD025110

Tot Ion: 83 Resp: 209315

Ion Ratio Lower Upper

83 100

85 64.5 44.6 82.8



#27

1,2-Dichloroethane

Concen: 25.015 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW017790.D

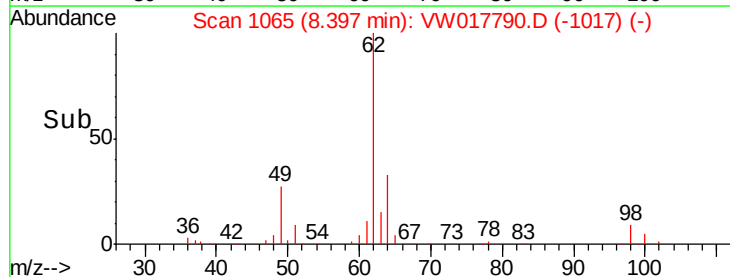
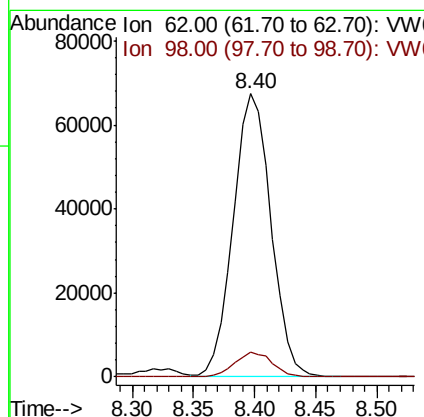
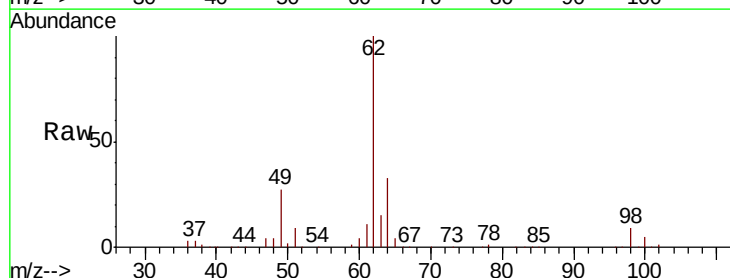
Acq: 05 Jan 2021 10:22

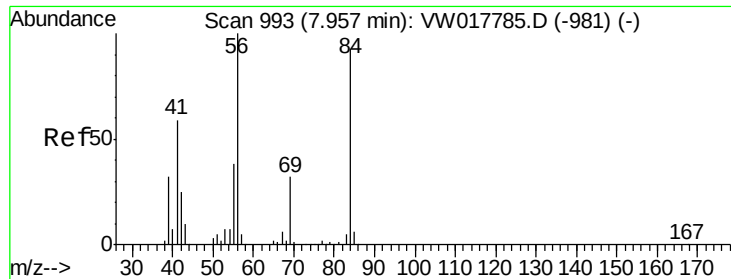
Tgt Ion: 62 Resp: 144664

Ion Ratio Lower Upper

62 100

98 8.8 6.9 10.3

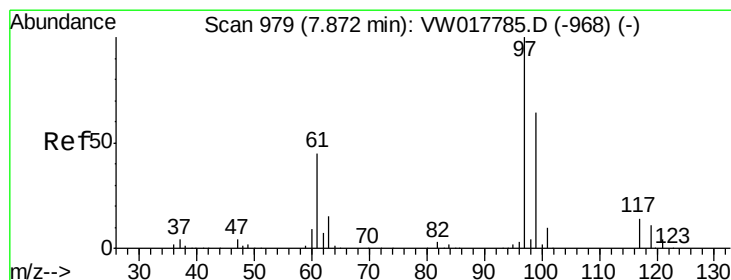
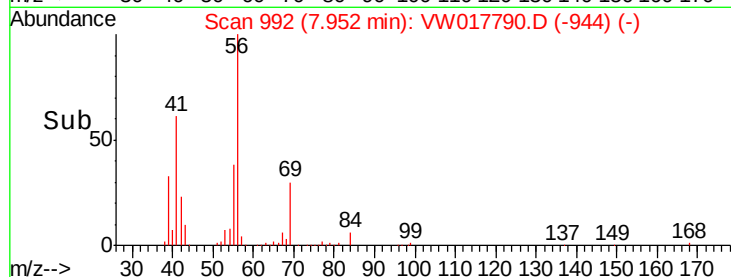
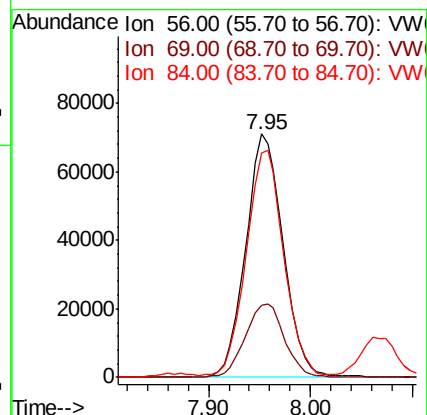
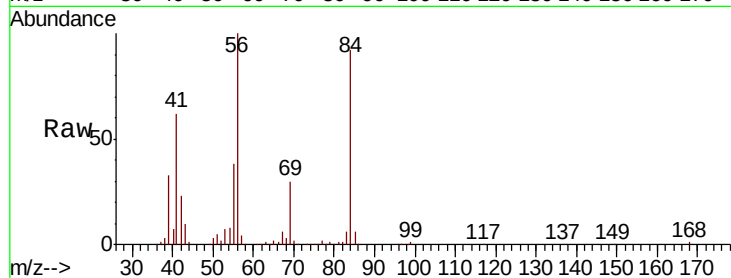




#29  
Cyclohexane  
Concen: 27.117 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

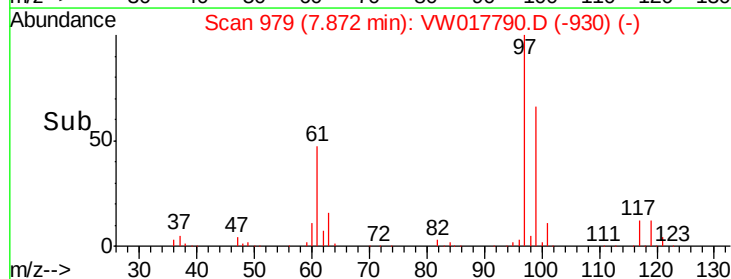
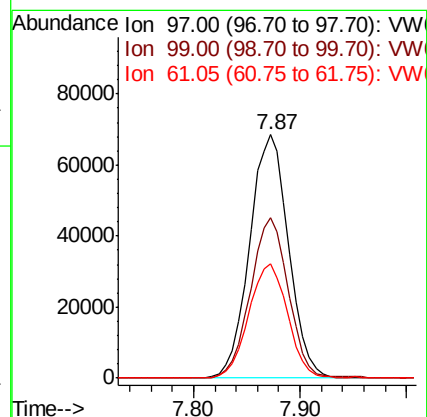
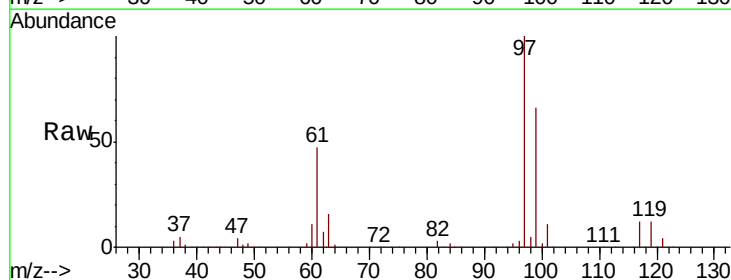
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025110

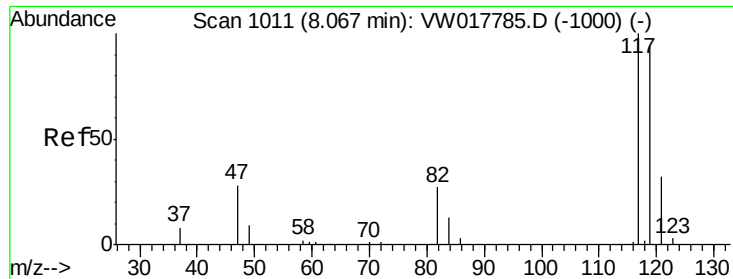
Tot Ion: 56 Resp: 181261  
Ion Ratio Lower Upper  
56 100  
69 31.5 24.5 36.7  
84 93.4 75.0 112.4



#30  
1,1,1-Trichloroethane  
Concen: 26.834 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion: 97 Resp: 175731  
Ion Ratio Lower Upper  
97 100  
99 64.3 51.4 77.2  
61 46.9 37.8 56.6





#31

Carbon tetrachloride

Concen: 27.253 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

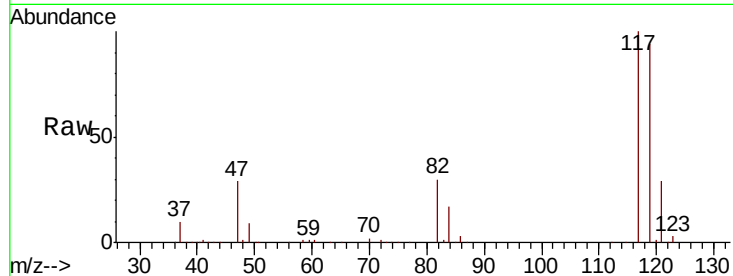
VSTD025110

Tot Ion:117 Resp: 167638

Ion Ratio Lower Upper

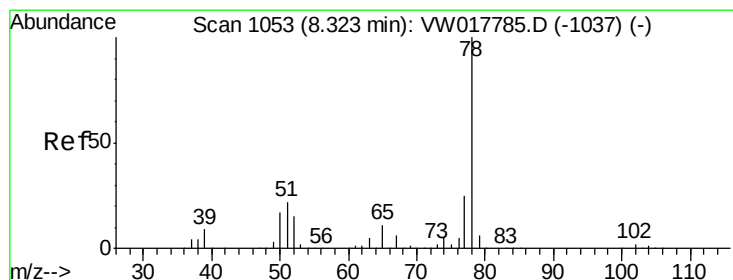
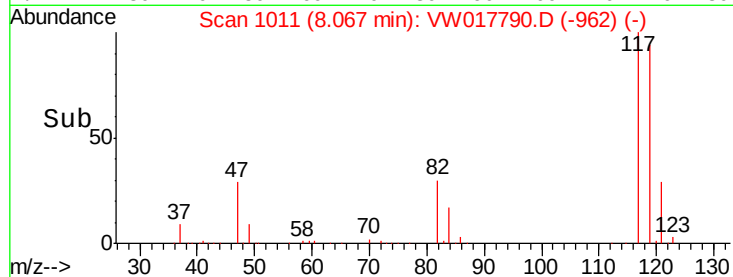
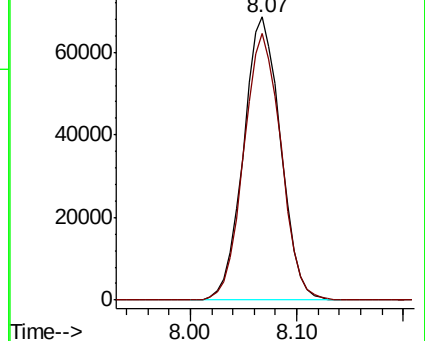
117 100

119 94.8 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 27.152 ug/L

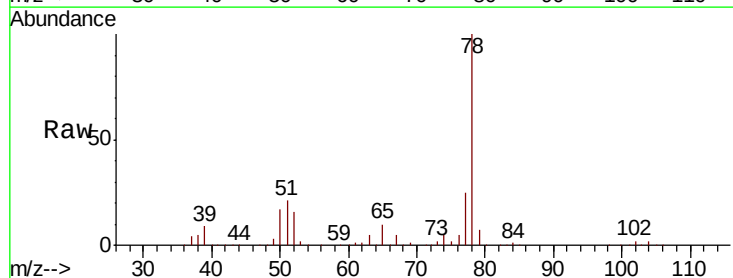
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

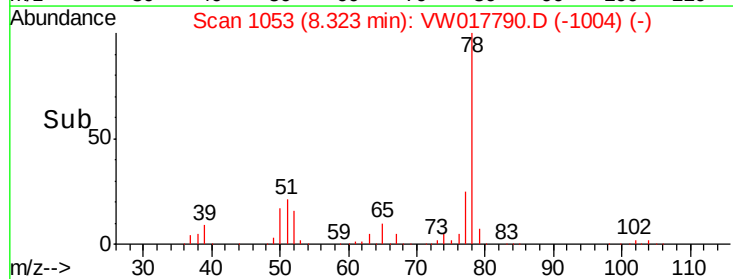
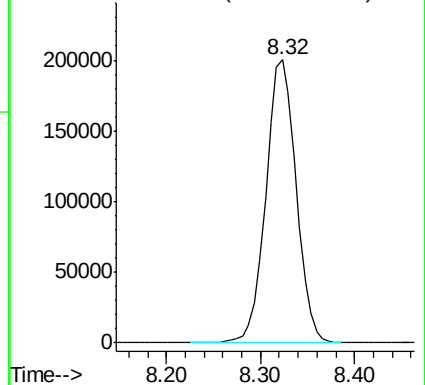
Lab File: VW017790.D

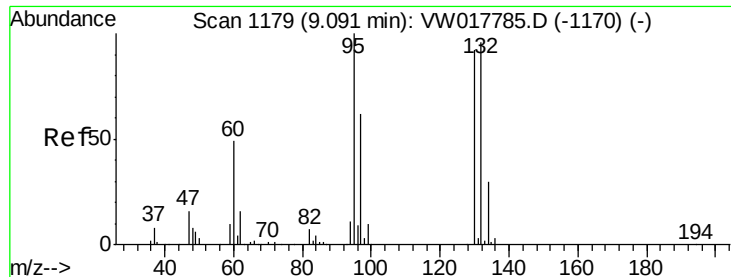
Acq: 05 Jan 2021 10:22

Tgt Ion: 78 Resp: 451594



Abundance Ion 78.00 (77.70 to 78.70): VW





#34

Trichloroethene

Concen: 27.086 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025110

Tot Ion: 95 Resp: 123030

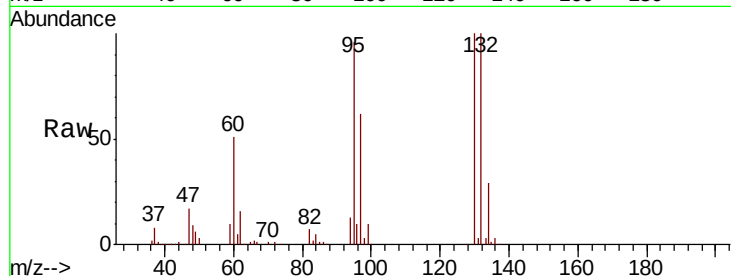
Ion Ratio Lower Upper

95 100

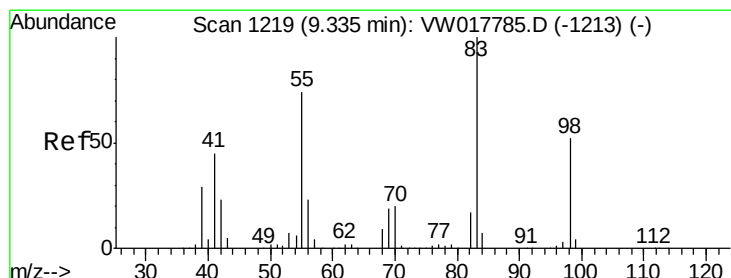
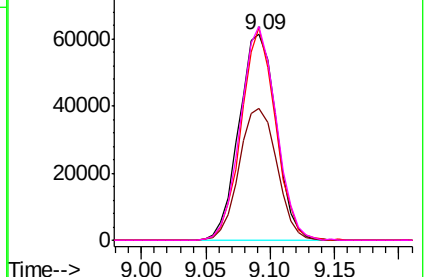
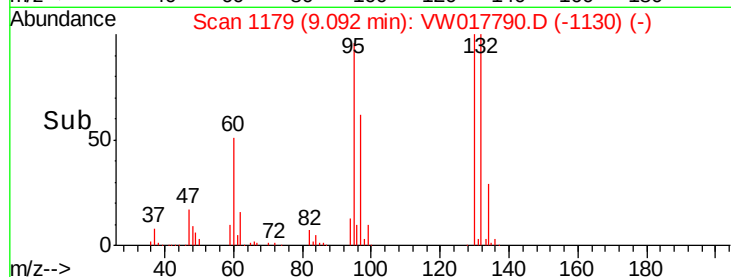
97 63.9 47.3 87.8

132 103.4 71.0 131.8

130 103.7 65.1 120.9



Abundance Ion 95.00 (94.70 to 95.70): VW  
Ion 97.00 (96.70 to 97.70): VW  
Ion 132.00 (131.70 to 132.70): V  
Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 28.128 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

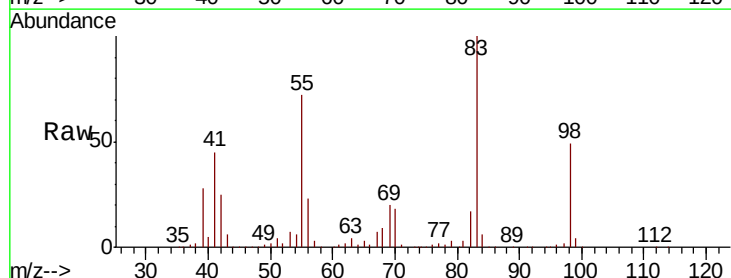
Tgt Ion: 83 Resp: 218772

Ion Ratio Lower Upper

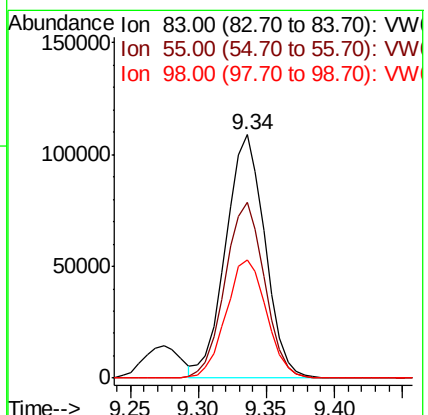
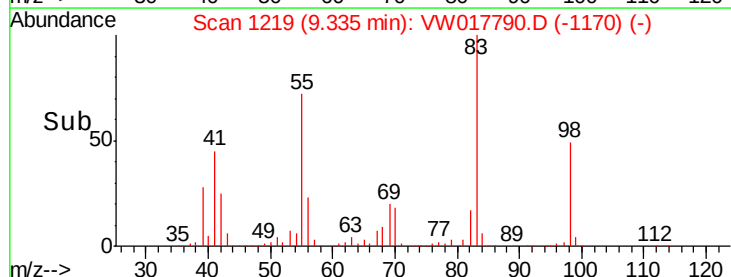
83 100

55 72.5 58.9 88.3

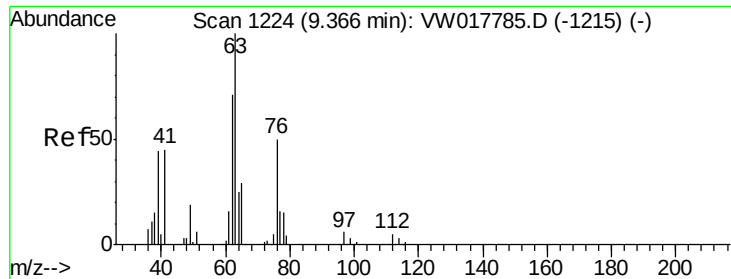
98 50.2 40.1 60.1



Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 55.00 (54.70 to 55.70): VW  
Ion 98.00 (97.70 to 98.70): VW



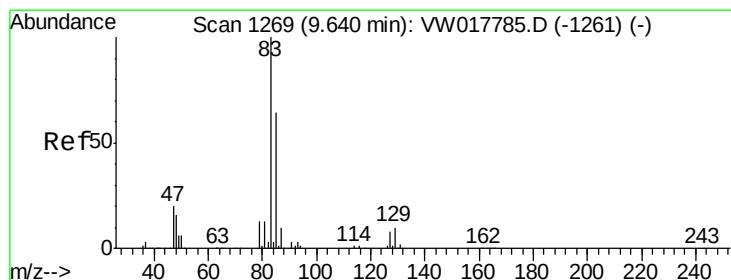
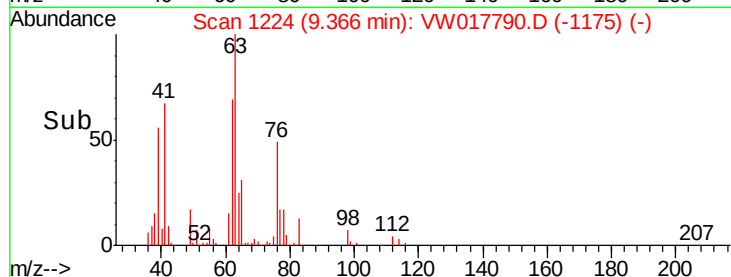
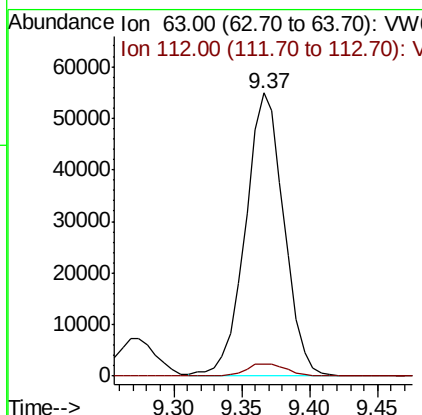
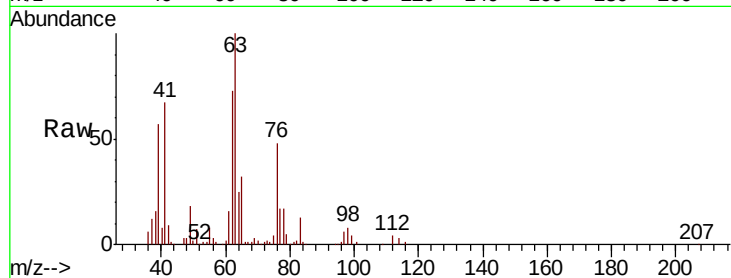




#37  
 1,2-Dichloropropane  
 Concen: 27.138 ug/L  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

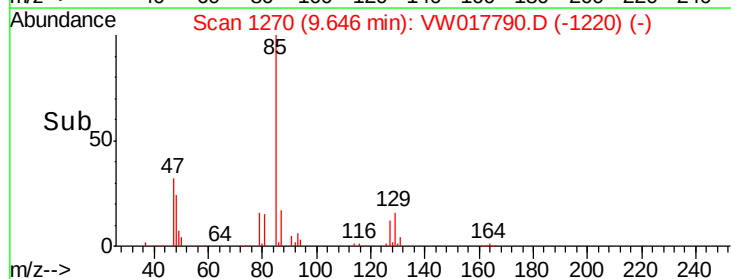
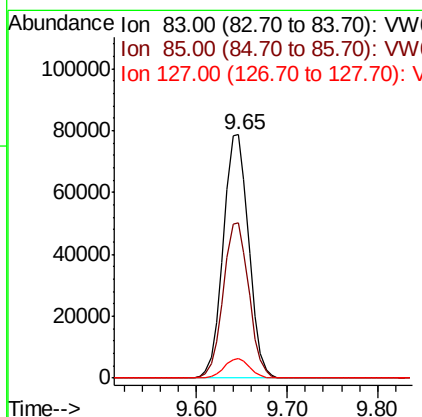
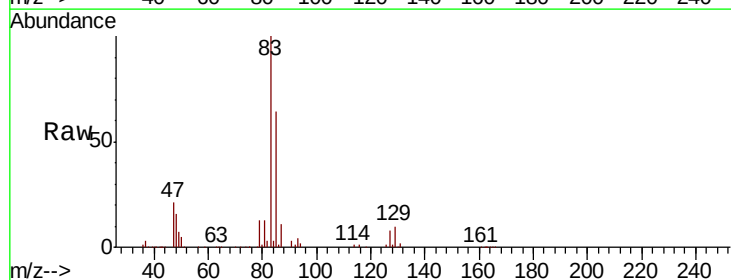
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

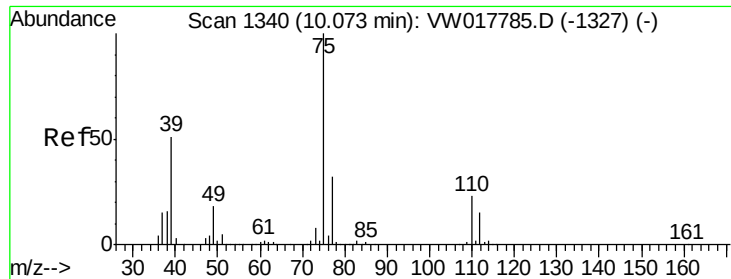
Tot Ion: 63 Resp: 109249  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.9 5.9



#38  
 Bromodichloromethane  
 Concen: 27.056 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. 0.01 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

Tgt Ion: 83 Resp: 153836  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 42.3 78.5  
 127 7.9 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 28.016 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampled :

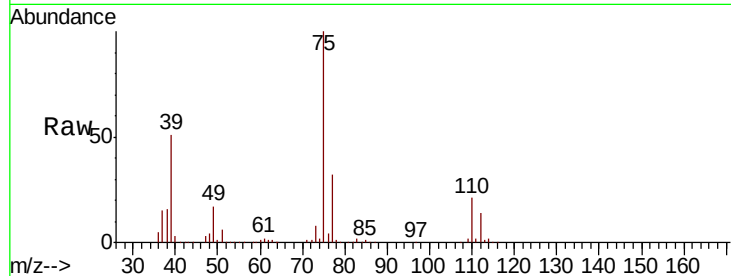
VSTD025110

Tot Ion: 75 Resp: 180061

Ion Ratio Lower Upper

75 100

77 31.8 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

80000

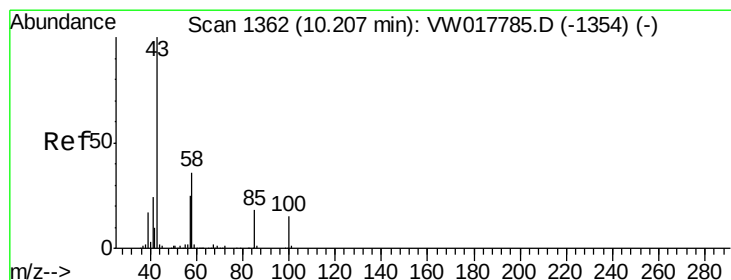
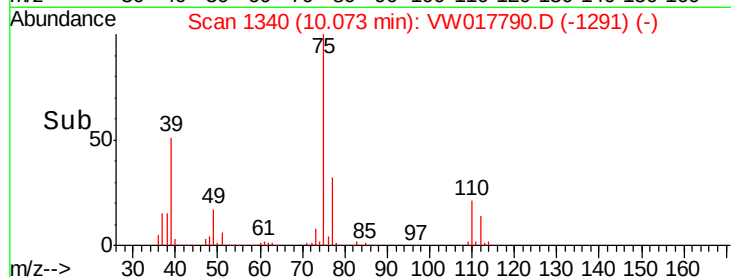
60000

40000

20000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 43.521 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

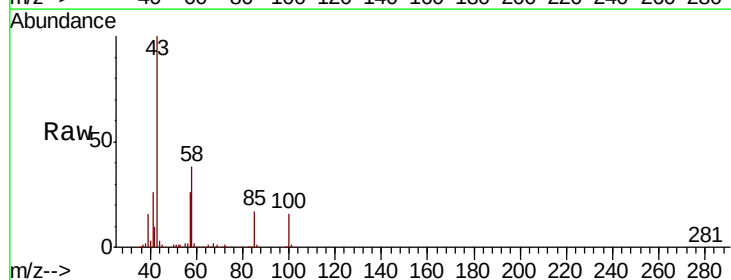
Tgt Ion: 43 Resp: 124357

Ion Ratio Lower Upper

43 100

58 38.7 31.0 46.4

100 16.0 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.21

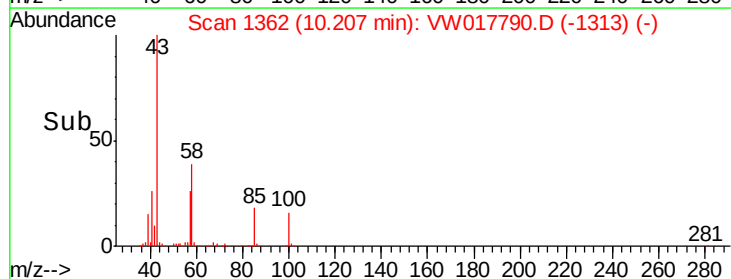
150000

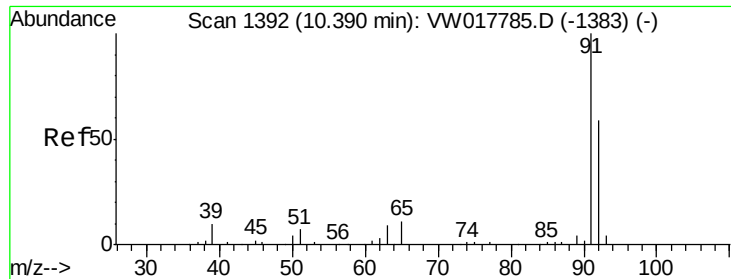
100000

50000

0

Time-->





#42

Toluene

Concen: 26.953 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

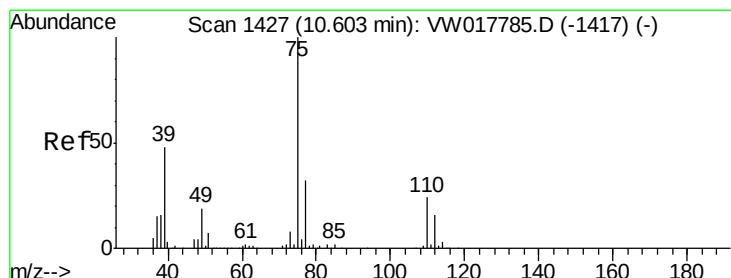
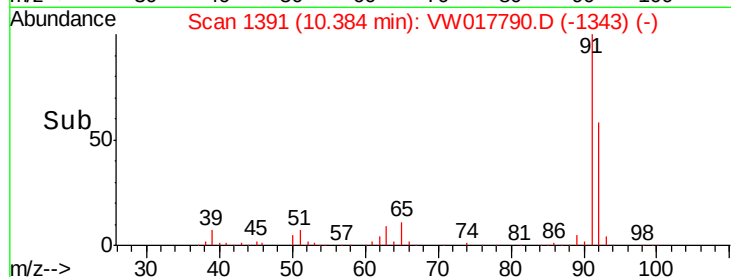
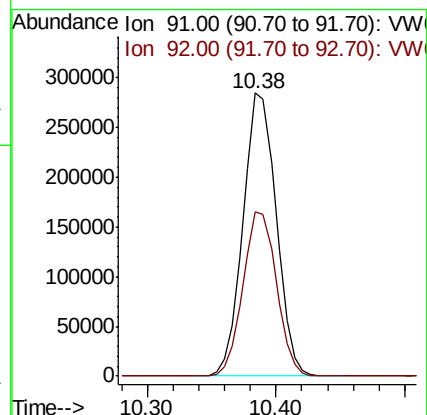
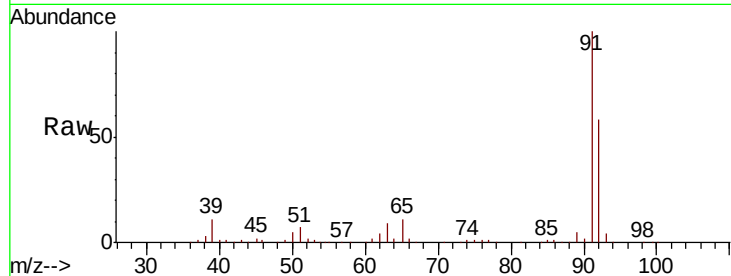
VSTD025110

Tot Ion: 91 Resp: 507731

Ion Ratio Lower Upper

91 100

92 58.1 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 26.503 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW017790.D

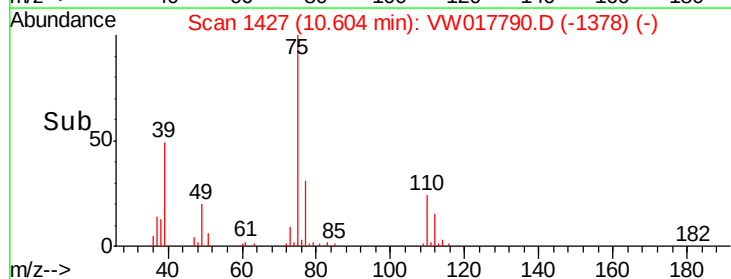
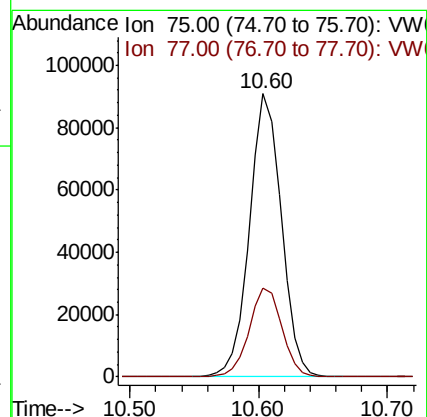
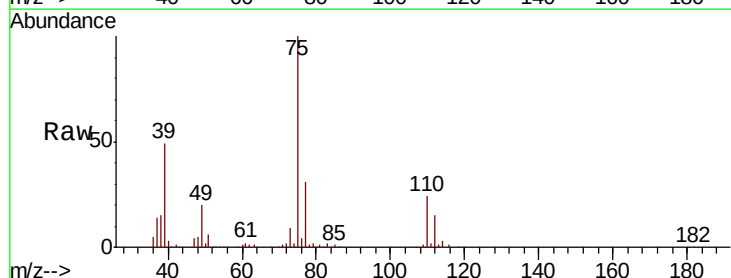
Acq: 05 Jan 2021 10:22

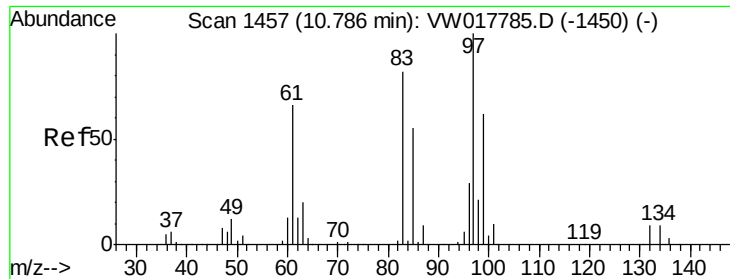
Tgt Ion: 75 Resp: 155328

Ion Ratio Lower Upper

75 100

77 31.4 21.1 39.1





#45

1,1,2-Trichloroethane

Concen: 25.122 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025110

Tot Ion: 97 Resp: 84886

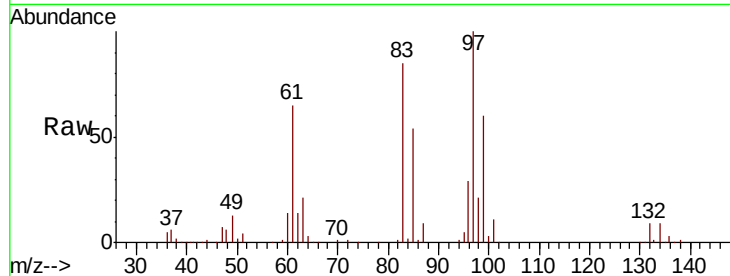
Ion Ratio Lower Upper

97 100

99 59.7 45.1 83.7

83 84.7 58.1 107.9

85 54.1 37.3 69.3

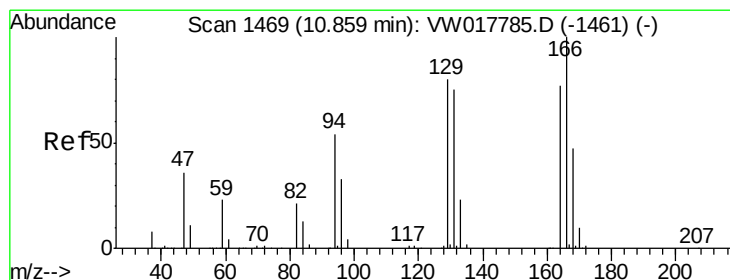
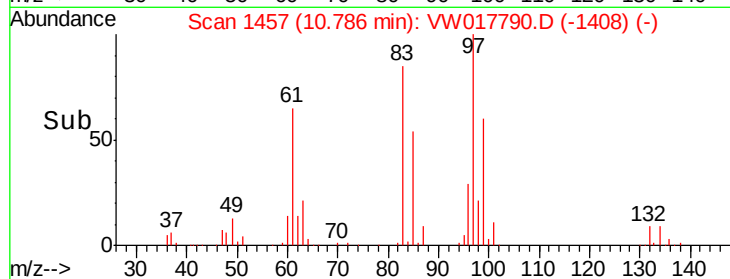
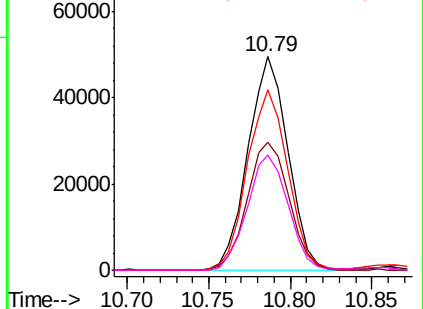


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#46

Tetrachloroethene

Concen: 26.154 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Tgt Ion: 164 Resp: 91036

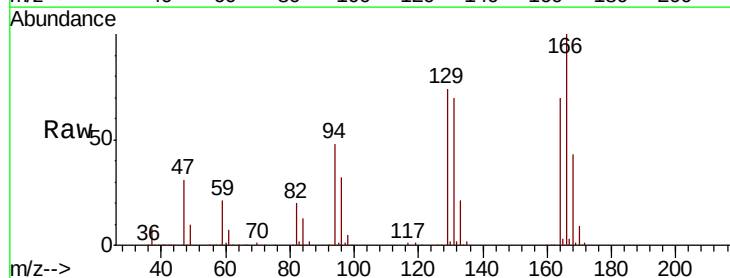
Ion Ratio Lower Upper

164 100

129 105.9 66.7 123.9

131 99.8 61.1 113.5

166 142.4 87.0 161.6

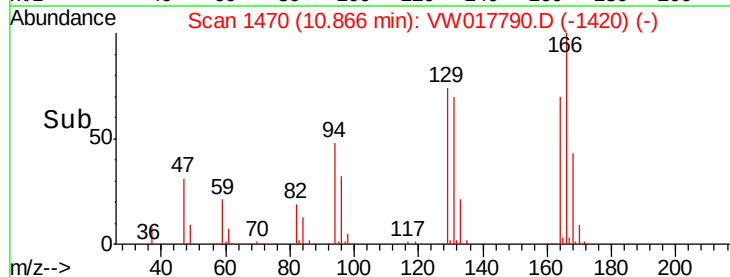
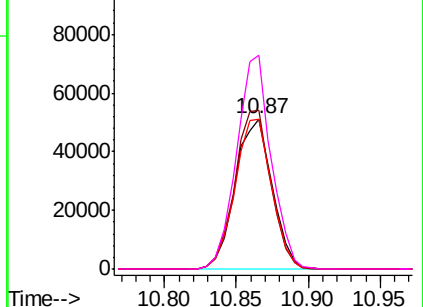


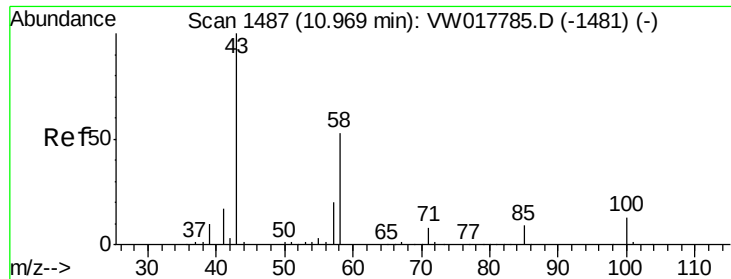
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

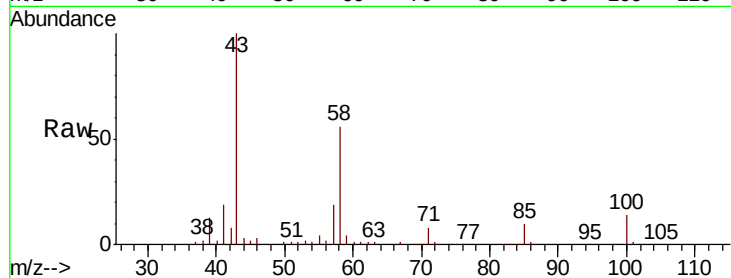




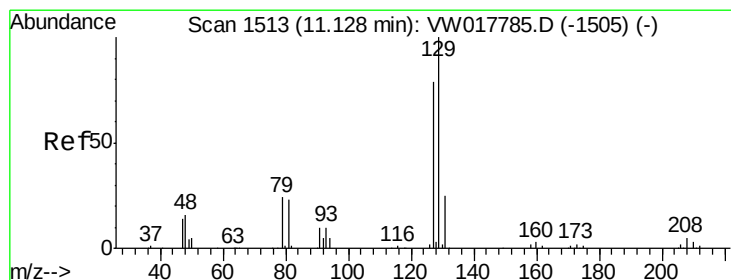
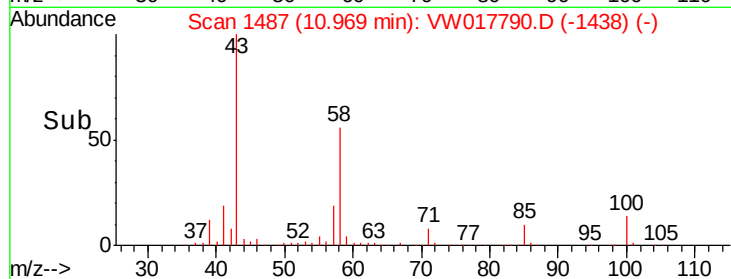
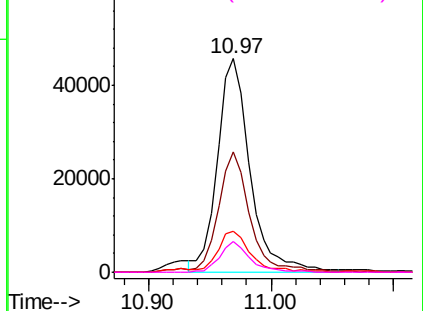
#48  
2-Hexanone  
Concen: 42.309 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025110

Tot Ion: 43 Resp: 84696  
Ion Ratio Lower Upper  
43 100  
58 53.2 42.7 64.1  
57 18.6 15.8 23.8  
100 12.6 10.0 15.0

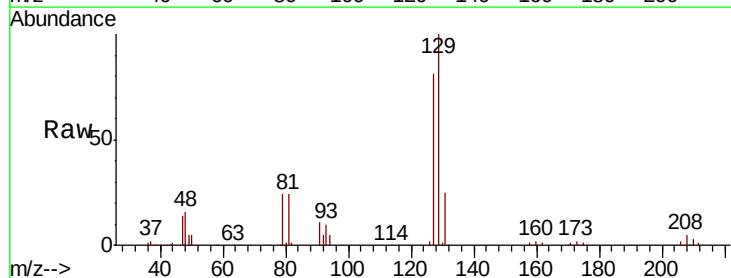


Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW  
Ion 57.00 (56.70 to 57.70): VW  
Ion 100.00 (99.70 to 100.70): VW

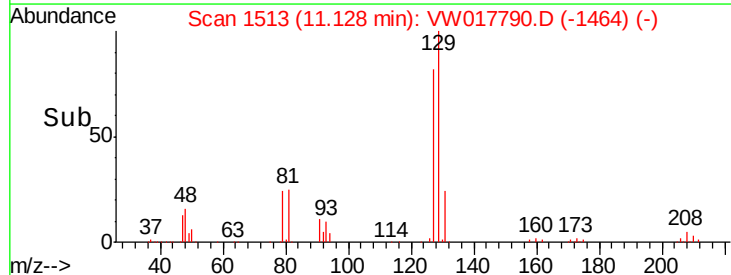
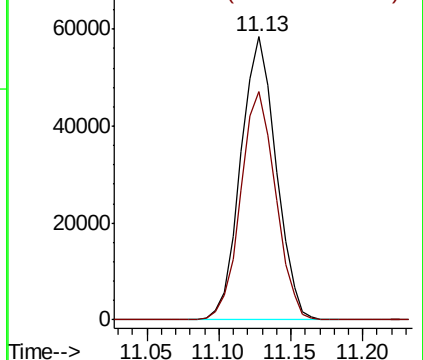


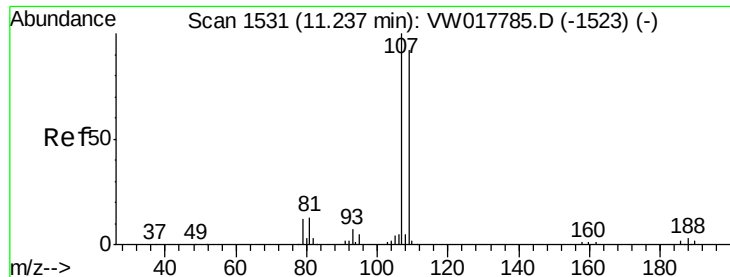
#49  
Dibromochloromethane  
Concen: 25.755 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion: 129 Resp: 99866  
Ion Ratio Lower Upper  
129 100  
127 80.7 51.7 95.9



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

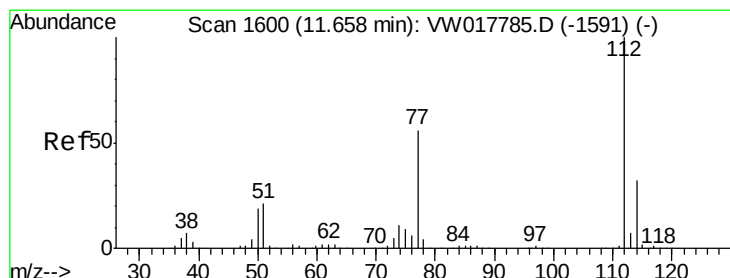
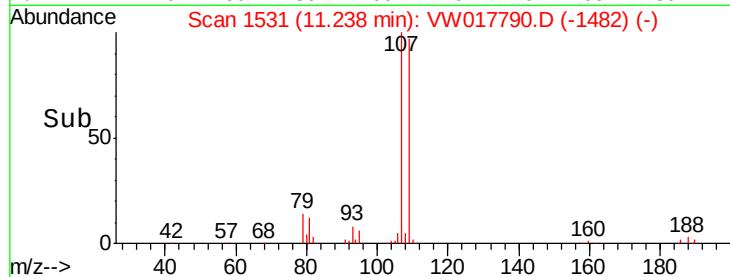
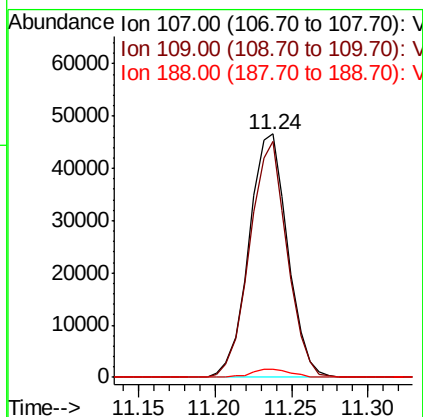
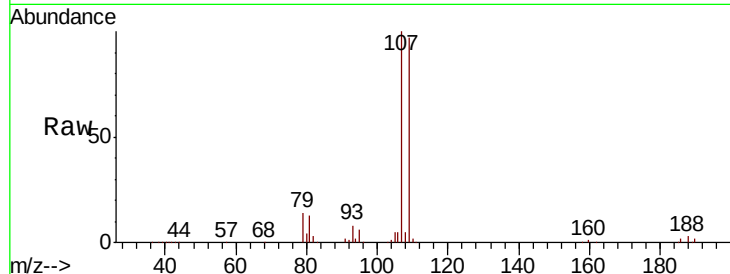




#50  
 1,2-Dibromoethane  
 Concen: 24.545 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

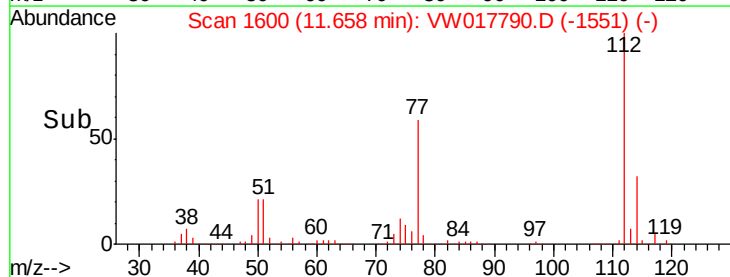
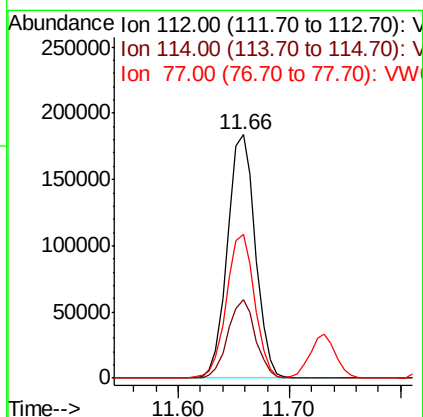
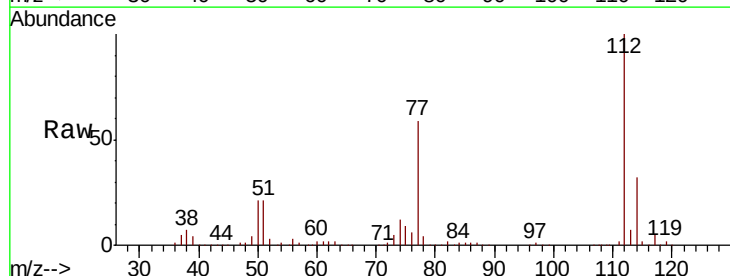
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

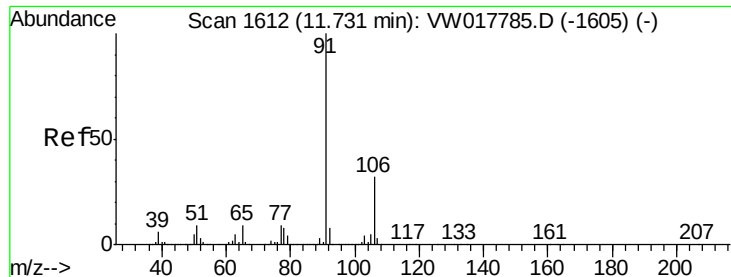
Tot Ion:107 Resp: 81947  
 Ion Ratio Lower Upper  
 107 100  
 109 96.7 65.4 121.4  
 188 3.3 2.6 4.0



#51  
 Chlorobenzene  
 Concen: 26.516 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

Tgt Ion:112 Resp: 316932  
 Ion Ratio Lower Upper  
 112 100  
 114 32.0 23.4 43.6  
 77 59.0 47.6 71.4

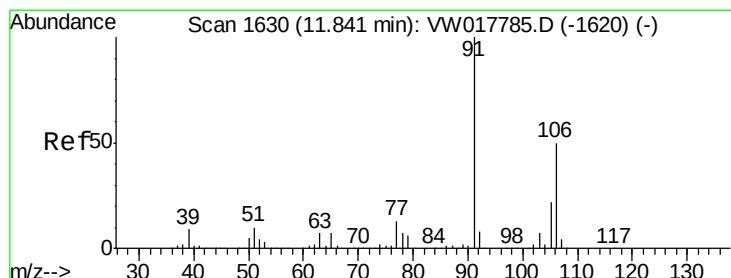
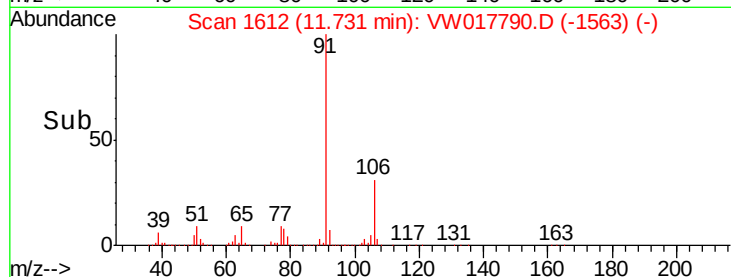
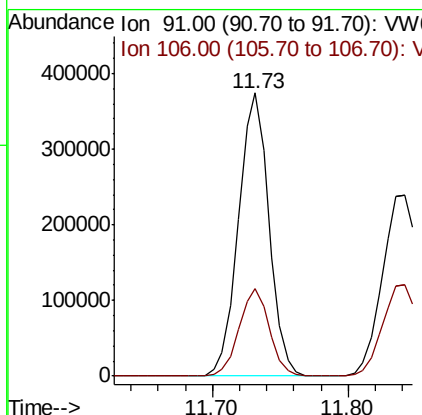
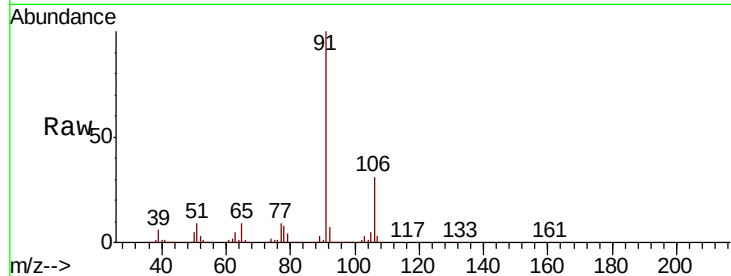




#52  
Ethylbenzene  
Concen: 27.150 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

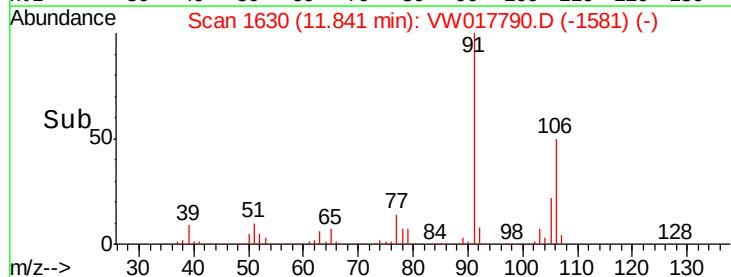
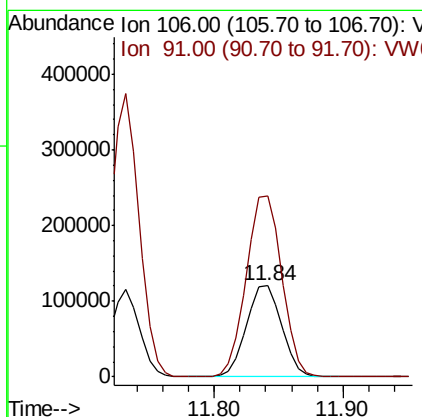
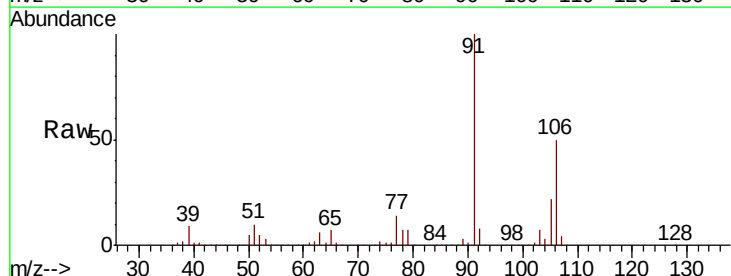
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025110

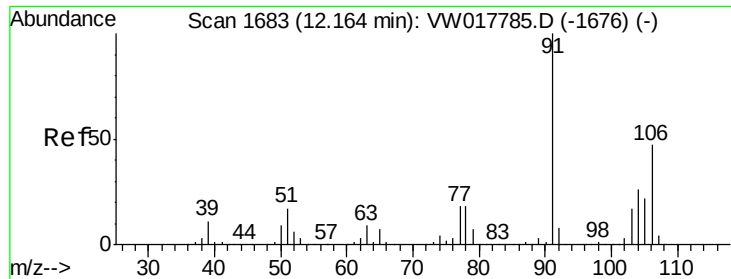
Tot Ion: 91 Resp: 584080  
Ion Ratio Lower Upper  
91 100  
106 31.0 22.5 41.7



#53  
m,p-Xylene  
Concen: 27.343 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion: 106 Resp: 227574  
Ion Ratio Lower Upper  
106 100  
91 198.9 141.3 262.3

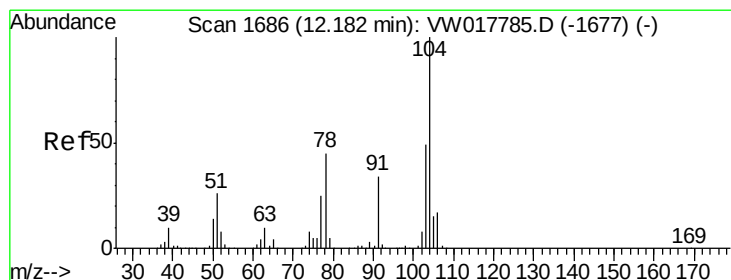
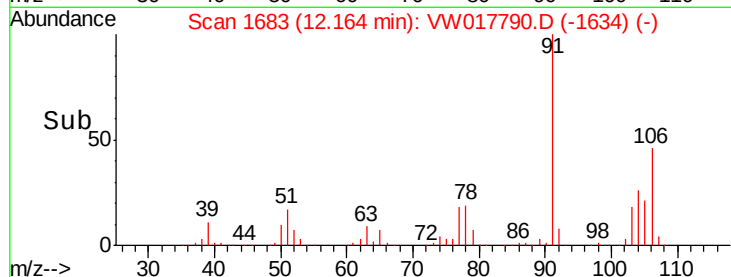
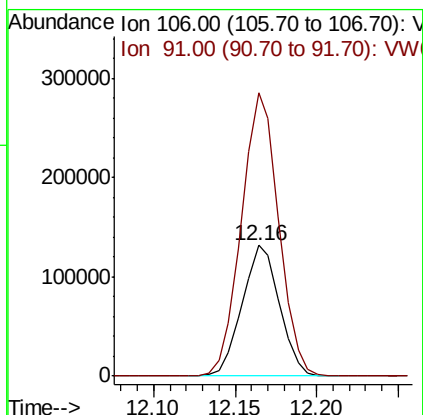
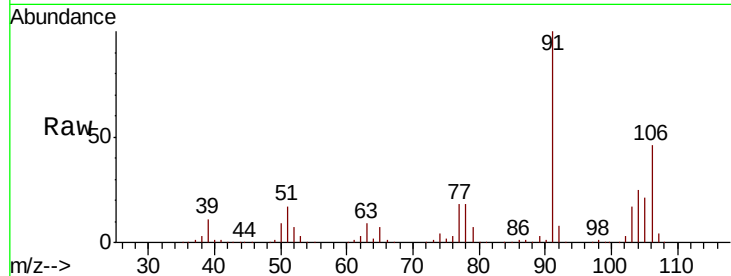




#54  
o-Xylene  
Concen: 26.802 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

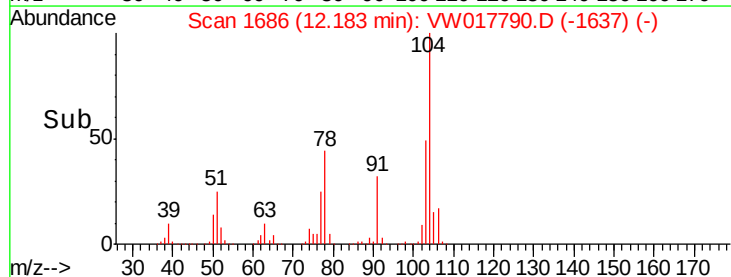
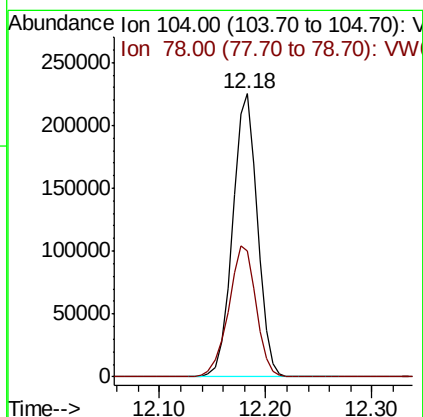
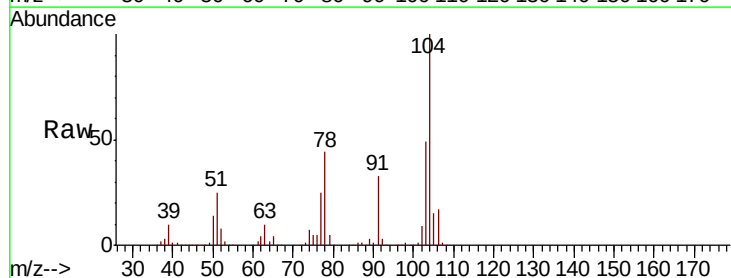
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025110

Tot Ion:106 Resp: 210539  
Ion Ratio Lower Upper  
106 100  
91 216.5 150.0 278.6

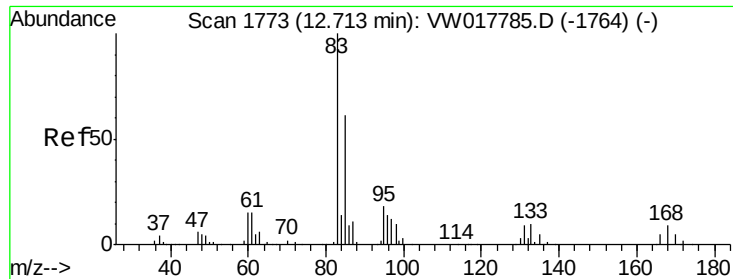


#55  
Styrene  
Concen: 27.306 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion:104 Resp: 367005  
Ion Ratio Lower Upper  
104 100  
78 44.4 32.5 60.3



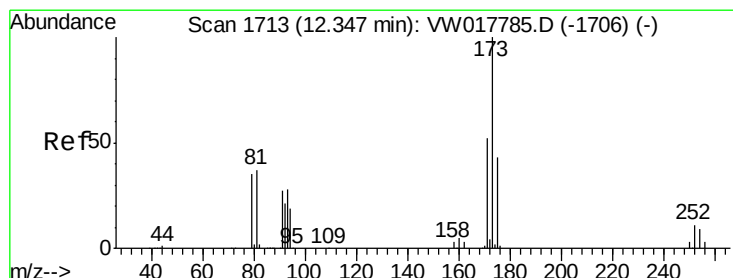
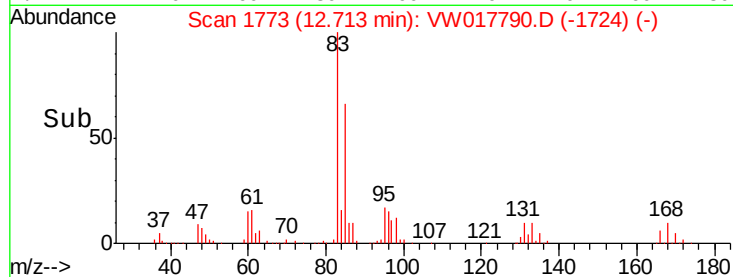
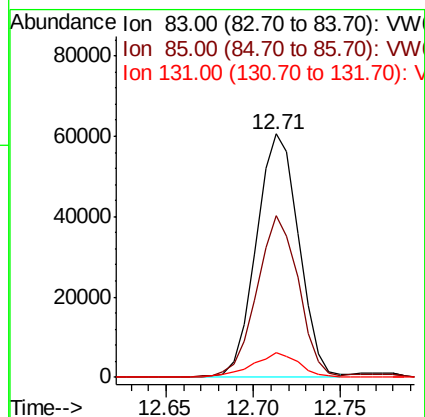
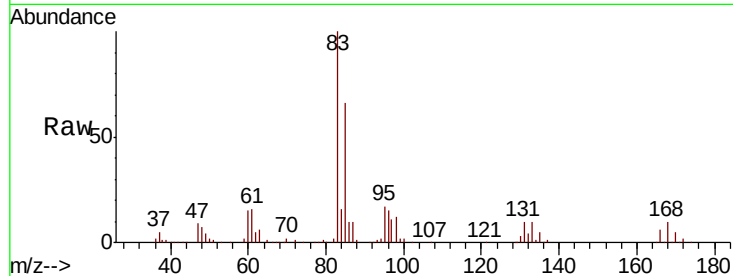




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 23.255 ug/L  
 RT: 12.71 min Scan# 1773  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

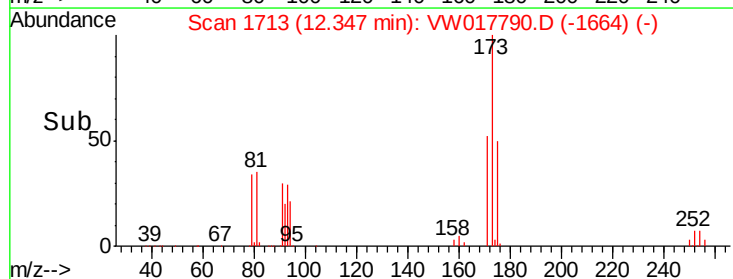
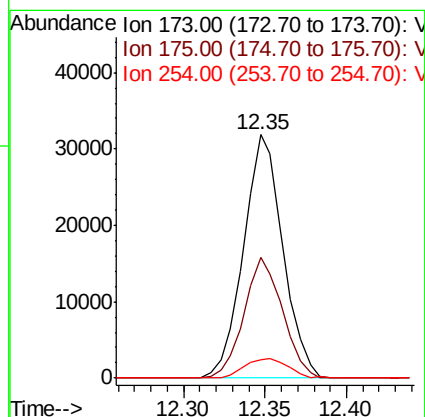
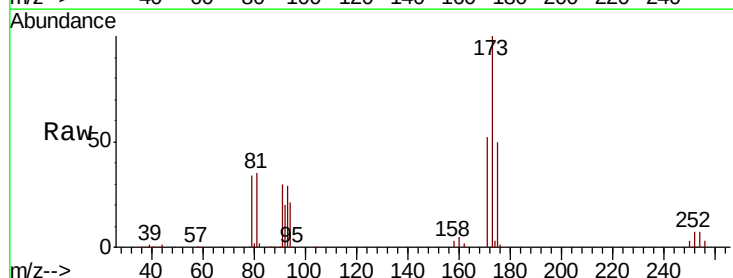
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

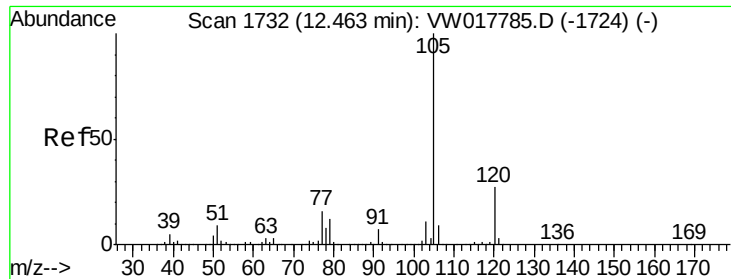
| Tot Ion   | 83    | Resp  | 102167 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 66.2  | 44.4  | 82.4   |
| 131       | 9.9   | 8.2   | 12.4   |



#59  
 Bromoform  
 Concen: 24.000 ug/L  
 RT: 12.35 min Scan# 1713  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

| Tgt Ion   | 173   | Resp  | 53532 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 48.6  | 37.5  | 56.3  |
| 254       | 8.6   | 7.0   | 10.4  |





#60

Isopropylbenzene

Concen: 27.678 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025110

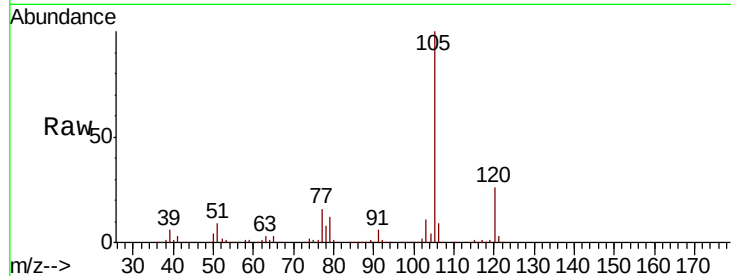
Tot Ion:105 Resp: 601950

Ion Ratio Lower Upper

105 100

120 27.1 21.1 31.7

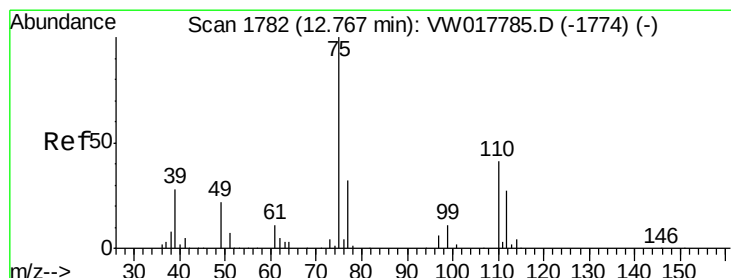
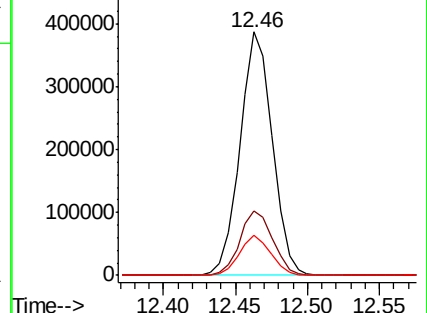
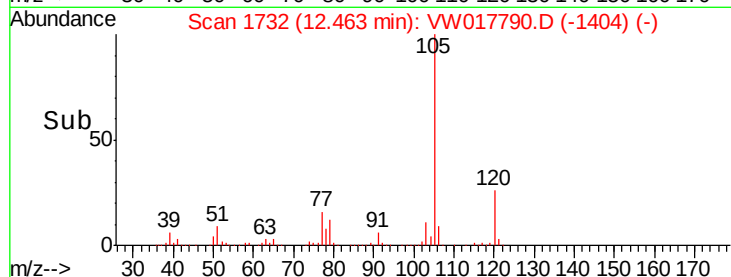
77 16.2 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 23.534 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW017790.D

Acq: 05 Jan 2021 10:22

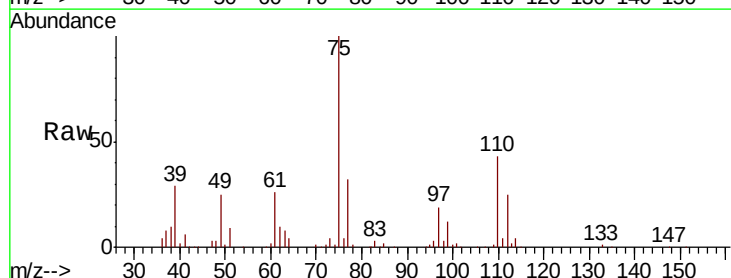
Tgt Ion: 75 Resp: 77048

Ion Ratio Lower Upper

75 100

77 33.1 25.3 37.9

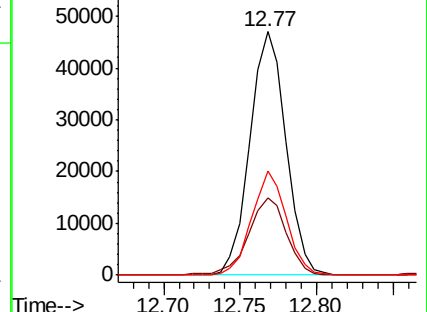
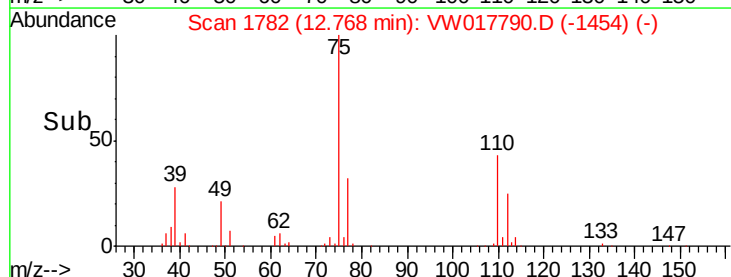
110 40.9 32.6 48.8

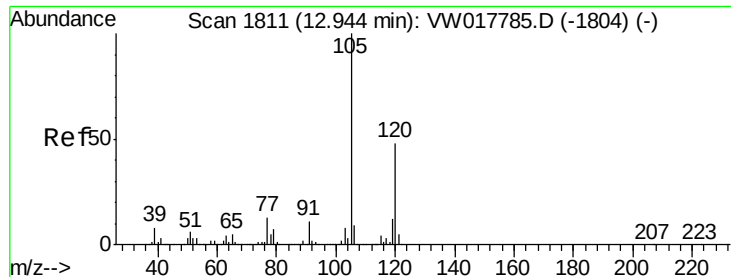


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V

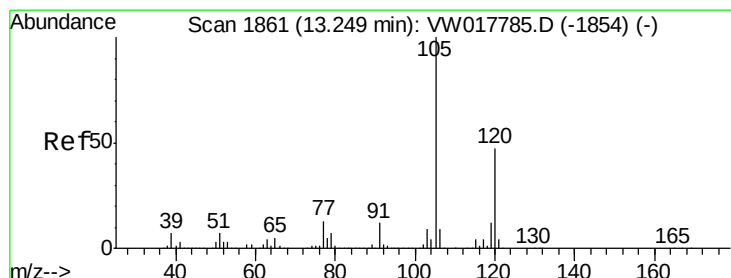
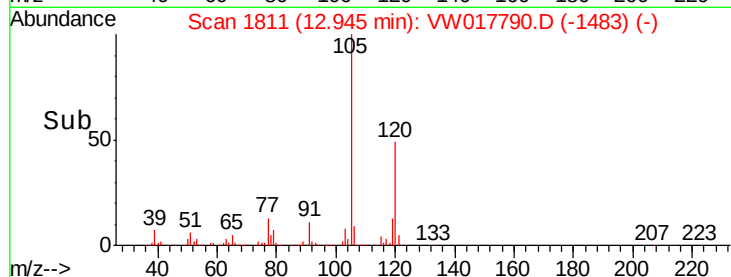
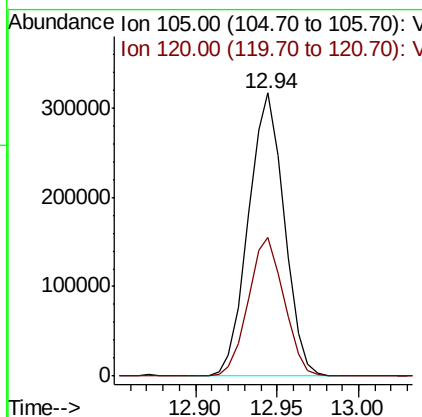
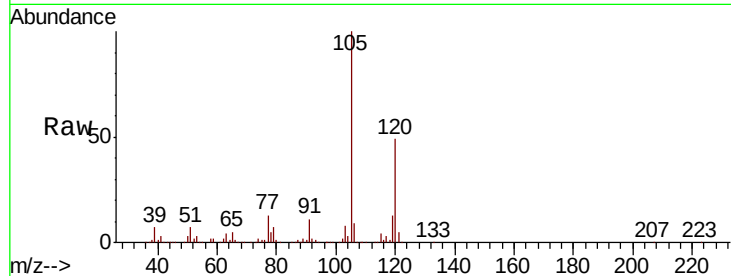




#62  
 1,3,5-Trimethylbenzene  
 Concen: 27.978 ug/L  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

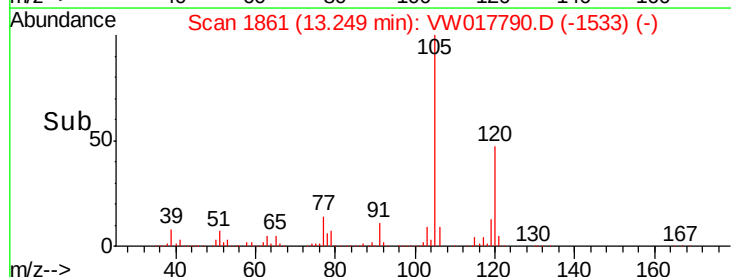
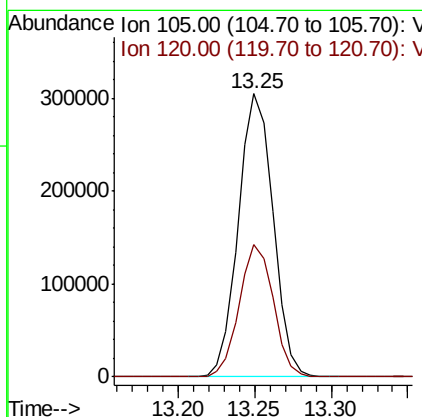
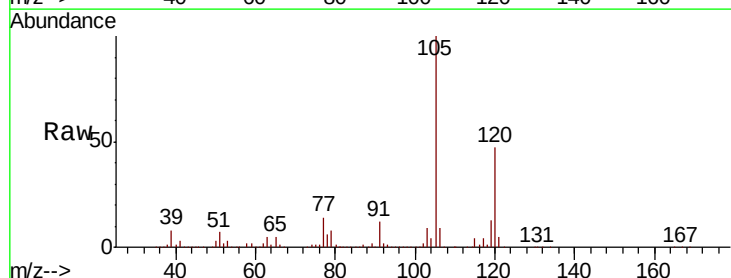
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

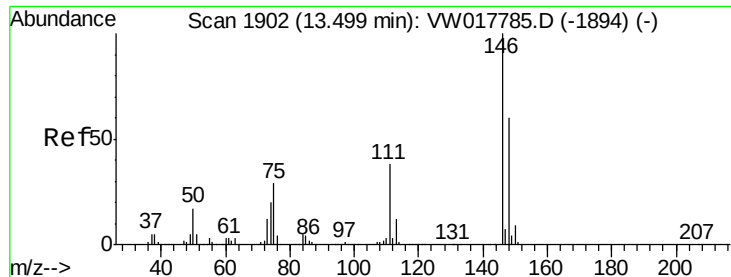
Tot Ion:105 Resp: 484058  
 Ion Ratio Lower Upper  
 105 100  
 120 48.9 39.0 58.6



#63  
 1,2,4-Trimethylbenzene  
 Concen: 27.336 ug/L  
 RT: 13.25 min Scan# 1861  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

Tgt Ion:105 Resp: 481316  
 Ion Ratio Lower Upper  
 105 100  
 120 45.8 35.6 53.4

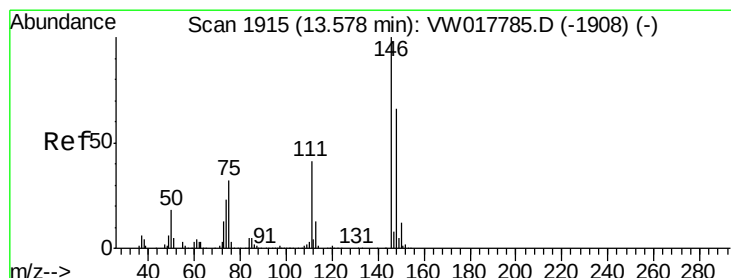
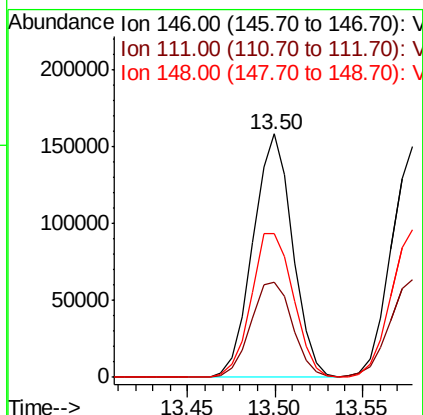
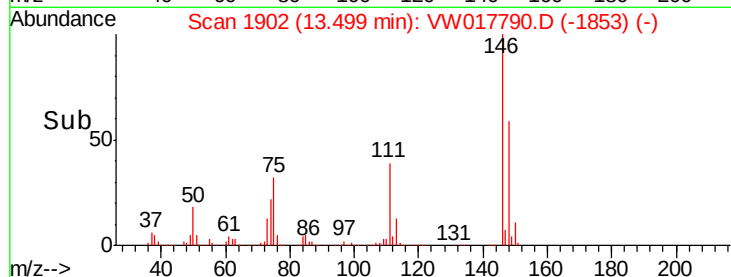
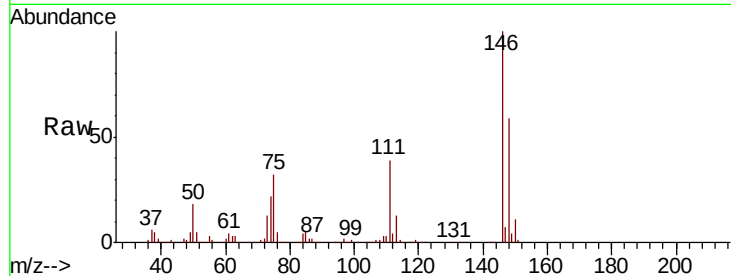




#64  
 1,3-Dichlorobenzene  
 Concen: 26.768 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

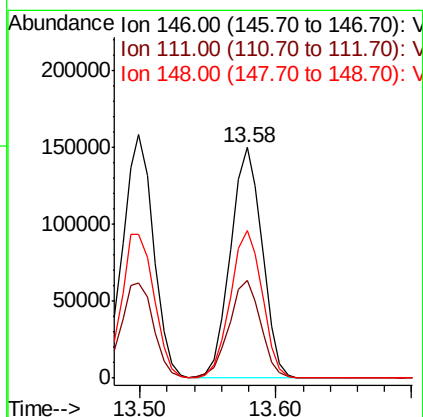
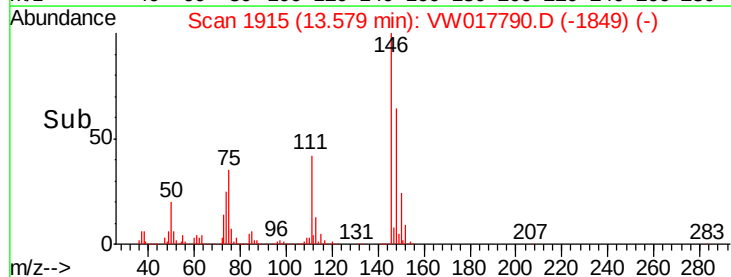
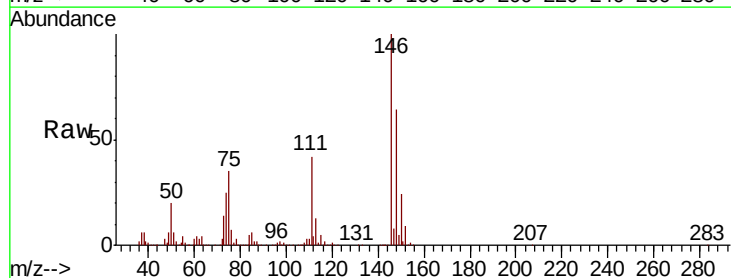
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

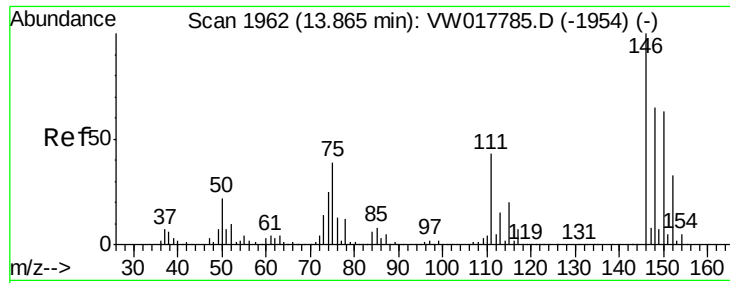
Tot Ion:146 Resp: 251322  
 Ion Ratio Lower Upper  
 146 100  
 111 39.2 26.7 49.7  
 148 59.0 41.1 76.3



#65  
 1,4-Dichlorobenzene  
 Concen: 26.036 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

Tgt Ion:146 Resp: 242821  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 28.8 53.4  
 148 64.3 46.8 87.0

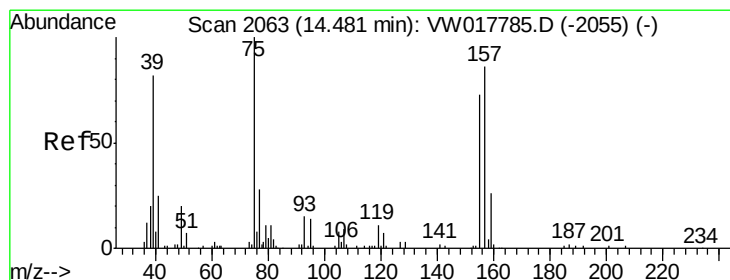
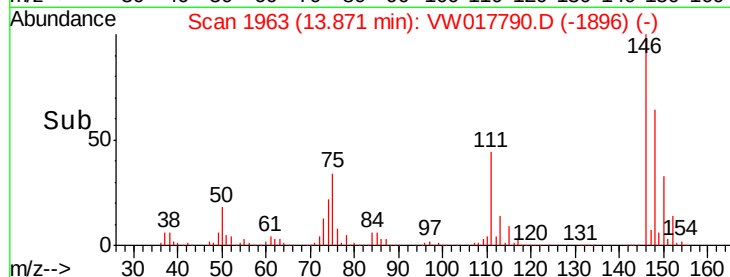
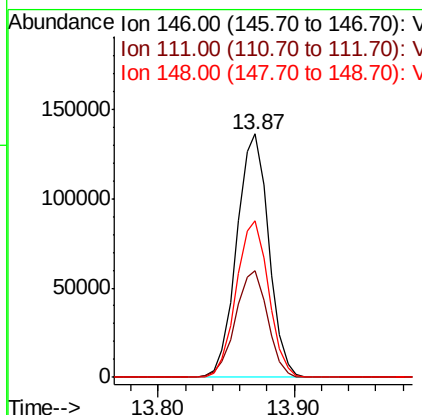
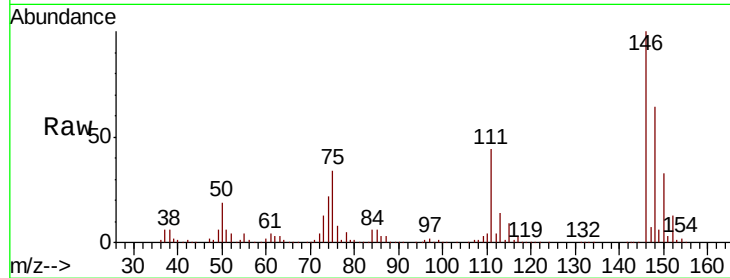




#67  
 1,2-Dichlorobenzene  
 Concen: 26.494 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.01 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

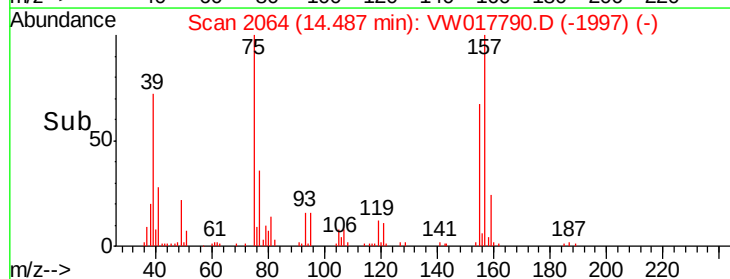
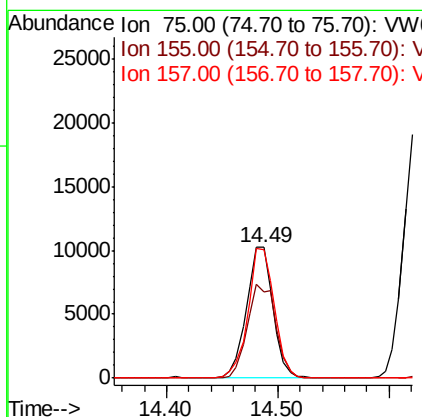
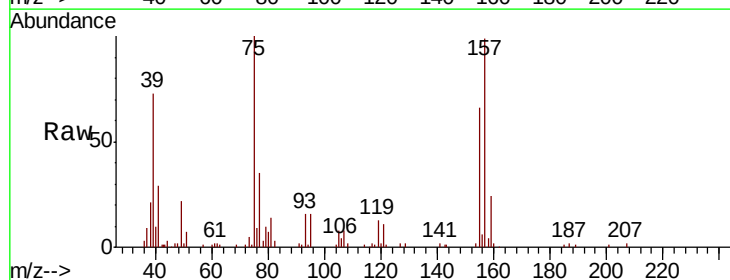
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

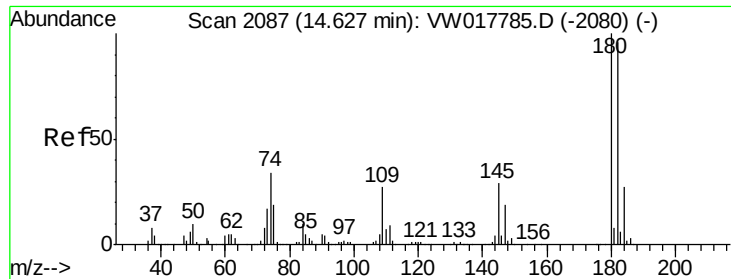
Tot Ion:146 Resp: 223214  
 Ion Ratio Lower Upper  
 146 100  
 111 44.0 33.2 49.8  
 148 64.4 50.4 75.6



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 21.727 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.01 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

Tgt Ion: 75 Resp: 17022  
 Ion Ratio Lower Upper  
 75 100  
 155 66.3 59.4 89.0  
 157 98.6 72.2 108.2

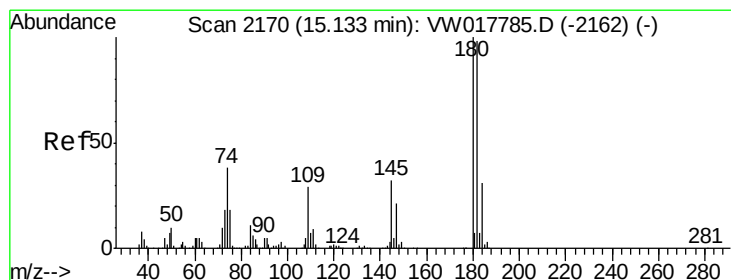
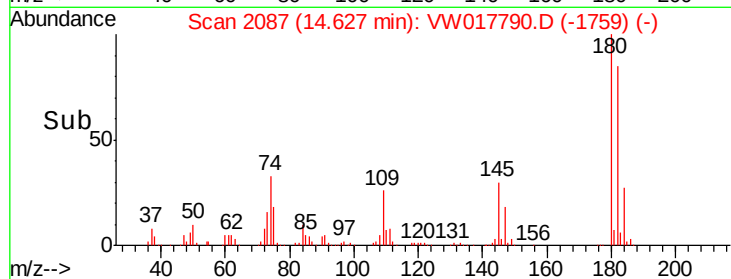
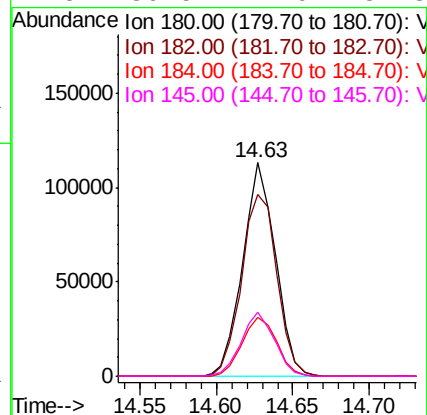
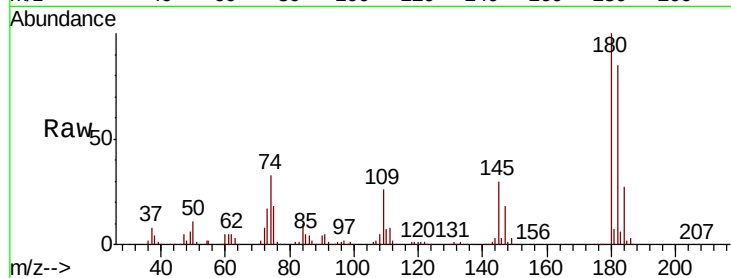




#69  
 1,3,5-Trichlorobenzene  
 Concen: 26.491 ug/L  
 RT: 14.63 min Scan# 2087  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

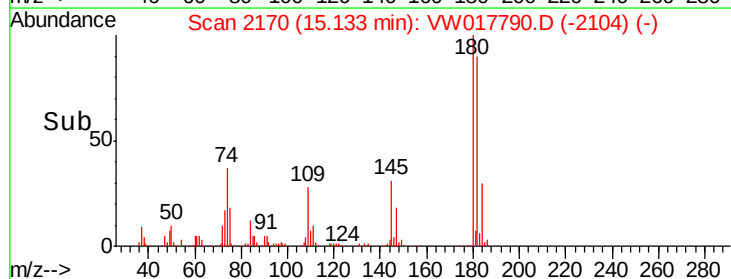
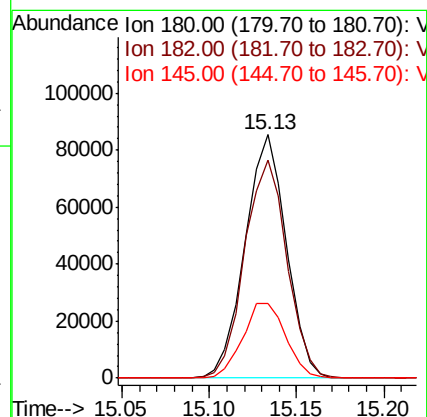
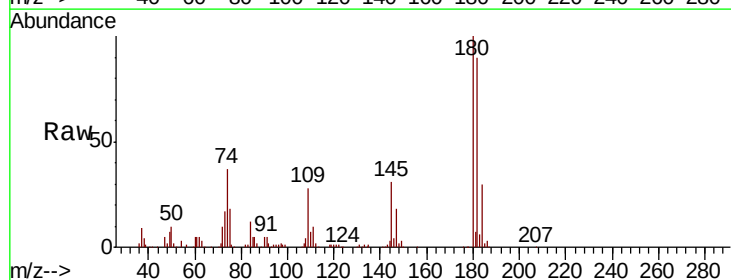
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025110

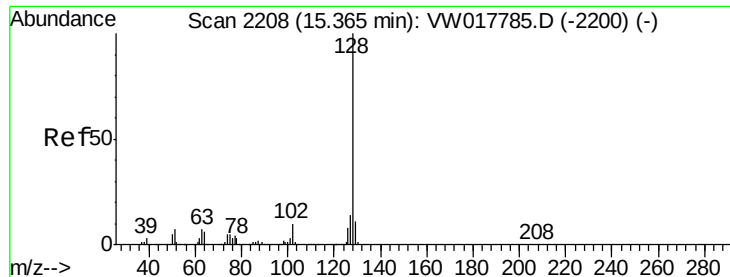
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.0  | 73.4  | 110.2 |
| 184     | 29.6  | 23.6  | 35.4  |
| 145     | 30.5  | 24.9  | 37.3  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 25.538 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. 0.00 min  
 Lab File: VW017790.D  
 Acq: 05 Jan 2021 10:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.7  | 74.7  | 112.1 |
| 145     | 32.1  | 25.0  | 37.4  |

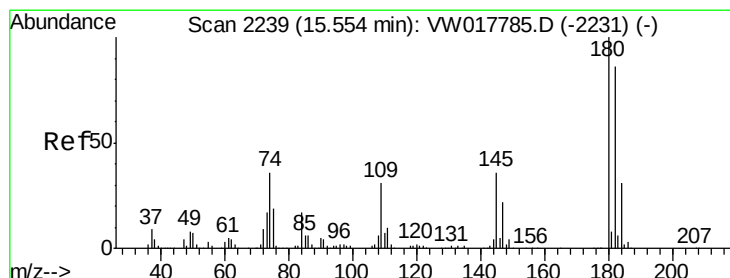
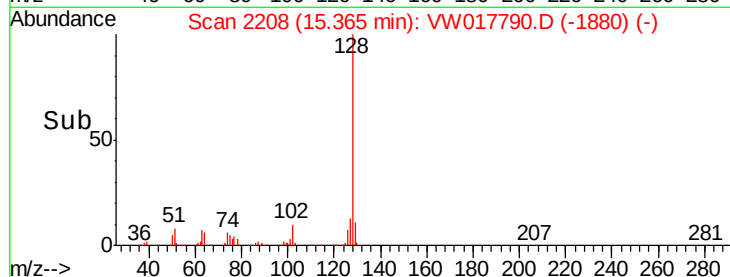
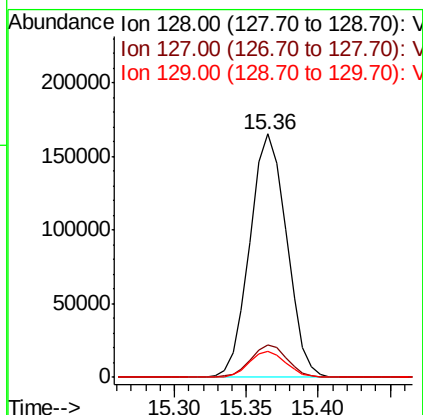
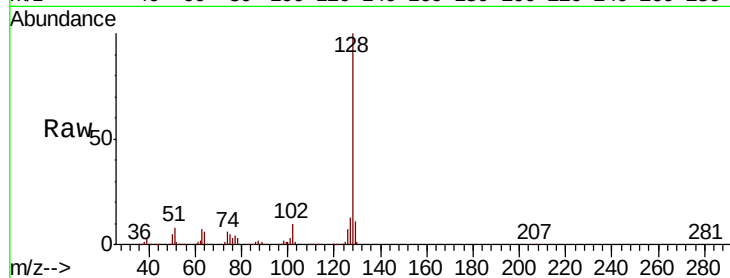




#71  
Naphthalene  
Concen: 23.107 ug/L  
RT: 15.36 min Scan# 2208  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025110

Tot Ion:128 Resp: 292857  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 15.8  
129 10.6 9.0 13.6



#72  
1,2,3-Trichlorobenzene  
Concen: 24.636 ug/L  
RT: 15.55 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VW017790.D  
Acq: 05 Jan 2021 10:22

Tgt Ion:180 Resp: 119093  
Ion Ratio Lower Upper  
180 100  
182 94.5 76.7 115.1  
145 34.2 28.9 43.3

