

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081920\  
 Data File : VW016249.D  
 Acq On : 19 Aug 2020 10:16  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 20 01:32:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 19 13:41:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 377712   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 349959   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 171430   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 82407    | 17.60    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.40% |
| 7) Chloroethane-d5             | 2.89   | 69    | 67232    | 18.91    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.64% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 203290   | 20.44    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 81.76% |
| 20) 2-Butanone-d5              | 7.09   | 46    | 44678    | 36.26    | ug/L | 0.01   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 72.52% |
| 24) Chloroform-d               | 7.65   | 84    | 212283   | 20.94    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 83.76% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 103593   | 19.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 76.96% |
| 29) Benzene-d6                 | 8.27   | 84    | 415613   | 21.83    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 87.32% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 117962   | 21.07    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 84.28% |
| 37) Toluene-d8                 | 10.33  | 98    | 387736   | 22.21    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 88.84% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 50801    | 20.19    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.76% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 38389    | 39.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.50% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 99967    | 21.93    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 87.72% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 133411   | 21.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 87.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 95969    | 25.151 | ug/L  | 95     |
| 3) Chloromethane               | 2.21 | 50   | 79757    | 21.048 | ug/L  | 95     |
| 5) Vinyl chloride              | 2.37 | 62   | 115209   | 22.909 | ug/L  | 100    |
| 6) Bromomethane                | 2.79 | 94   | 71670    | 22.755 | ug/L  | 99     |
| 8) Chloroethane                | 2.93 | 64   | 64940    | 22.932 | ug/L  | 100    |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 102400   | 28.526 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 127885   | 25.209 | ug/L  | 94     |
| 12) 1,1-Dichloroethene         | 4.03 | 96   | 122160   | 25.199 | ug/L  | 94     |
| 13) Acetone                    | 4.14 | 43   | 36892    | 39.576 | ug/L  | 95     |
| 14) Carbon disulfide           | 4.38 | 76   | 374061   | 24.582 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.68 | 43   | 39905    | 18.206 | ug/L  | 94     |
| 16) Methylene chloride         | 4.92 | 84   | 131357   | 22.024 | ug/L  | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 156701   | 22.810 | ug/L  | 97     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 125969   | 24.703 | ug/L  | 85     |
| 19) 1,1-Dichloroethane         | 6.22 | 63   | 207902   | 23.043 | ug/L  | 97     |
| 21) 2-Butanone                 | 7.18 | 43   | 53226    | 36.027 | ug/L  | 95     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 128835   | 23.949 | ug/L  | 97     |

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 MSVOA\_W  
 ClientSampleId :

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 19 13:41:12 2020  
 Response via : Initial Calibration

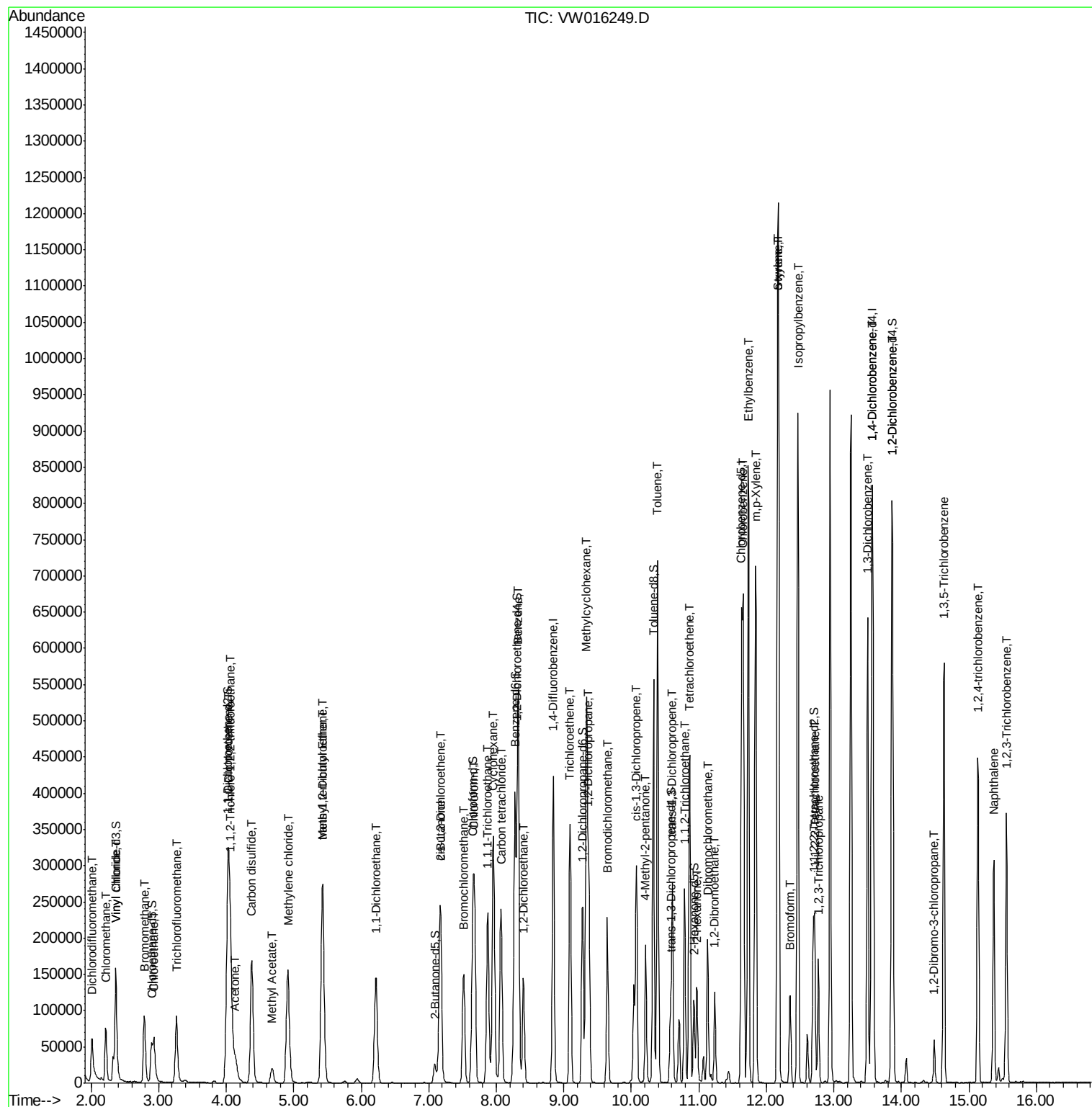
| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 59105    | 23.939 | ug/L   | 85       |
| 25) Chloroform                  | 7.68  | 83   | 222579   | 23.188 | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 132049   | 20.652 | ug/L   | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 185527   | 24.365 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 198330   | 24.663 | ug/L   | 98       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 186293   | 24.494 | ug/L   | 99       |
| 34) Benzene                     | 8.32  | 78   | 494849   | 24.521 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 130903   | 24.123 | ug/L   | 96       |
| 36) Methylcyclohexane           | 9.34  | 83   | 228924   | 25.609 | ug/L   | 96       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 115756   | 23.357 | ug/L   | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 158294   | 23.251 | ug/L   | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 181041   | 23.987 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 114955   | 38.565 | ug/L   | 96       |
| 44) Toluene                     | 10.39 | 91   | 539347   | 25.317 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 155884   | 22.992 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 89106    | 22.841 | ug/L   | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 107797   | 26.498 | ug/L   | 93       |
| 49) 2-Hexanone                  | 10.97 | 43   | 79398    | 39.474 | ug/L   | 96       |
| 50) Dibromochloromethane        | 11.13 | 129  | 108366   | 23.585 | ug/L   | 98       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 84236    | 22.777 | ug/L   | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 348532   | 24.727 | ug/L   | 95       |
| 53) Ethylbenzene                | 11.73 | 91   | 607562   | 25.137 | ug/L   | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 237895   | 26.165 | ug/L   | 95       |
| 55) o-xylene                    | 12.17 | 106  | 222023   | 25.925 | ug/L   | 99       |
| 56) Styrene                     | 12.18 | 104  | 383579   | 25.870 | ug/L   | 98       |
| 57) Isopropylbenzene            | 12.47 | 105  | 610370   | 26.434 | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 100039   | 21.978 | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 73796    | 21.400 | ug/L   | 100      |
| 62) Bromoform                   | 12.35 | 173  | 57321    | 22.112 | ug/L   | 100      |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 263155   | 24.304 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 268147   | 24.310 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 233405   | 23.511 | ug/L   | 91       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 15494    | 17.799 | ug/L # | 76       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 178456   | 26.120 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 141840   | 25.615 | ug/L   | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 271416   | 23.221 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 124759   | 24.799 | ug/L   | 96       |

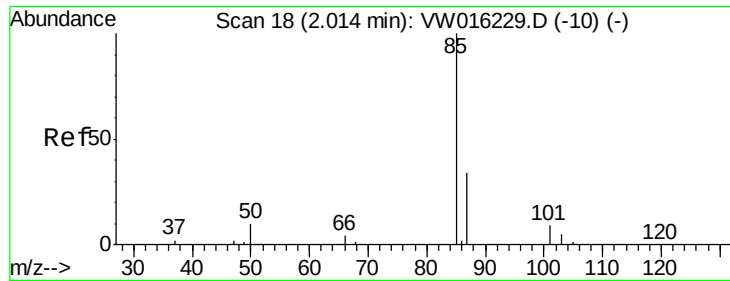
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed Aug 19 13:41:12 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 25.151 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

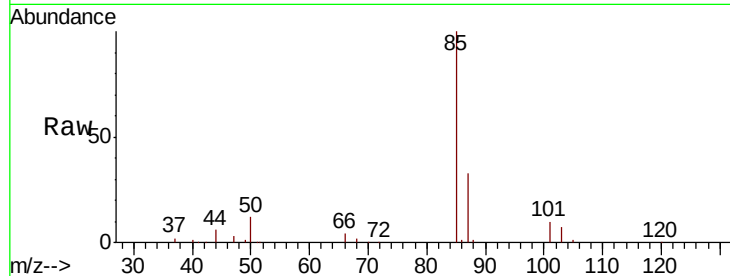
ClientSampleId :

Tot Ion: 85 Resp: 95969

Ion Ratio Lower Upper

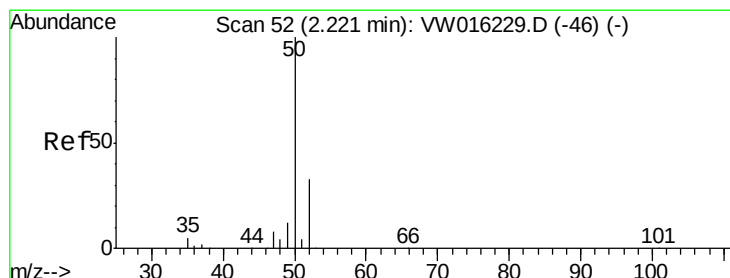
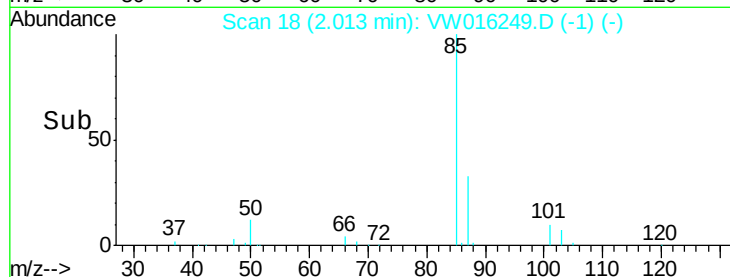
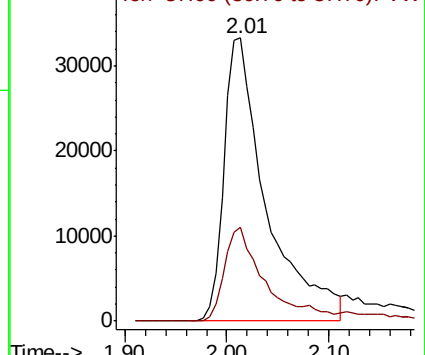
85 100

87 28.8 22.0 41.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.048 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW016249.D

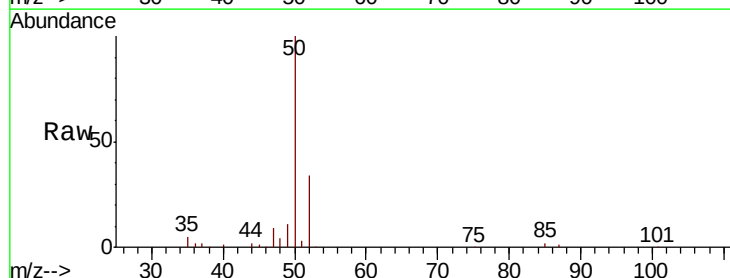
Acq: 19 Aug 2020 10:16

Tgt Ion: 50 Resp: 79757

Ion Ratio Lower Upper

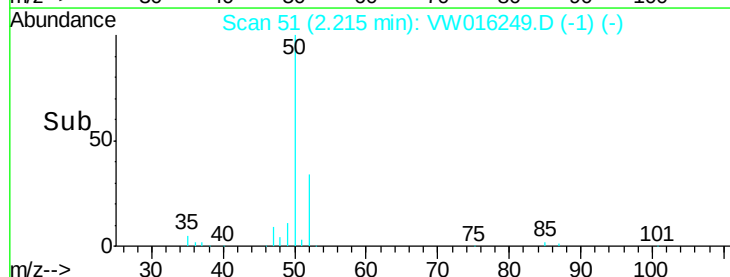
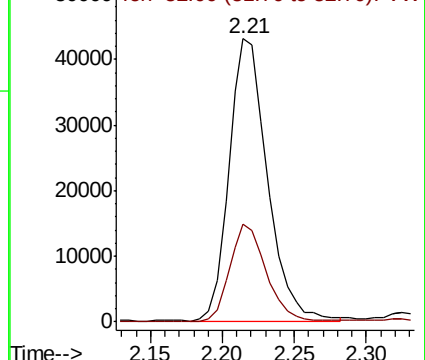
50 100

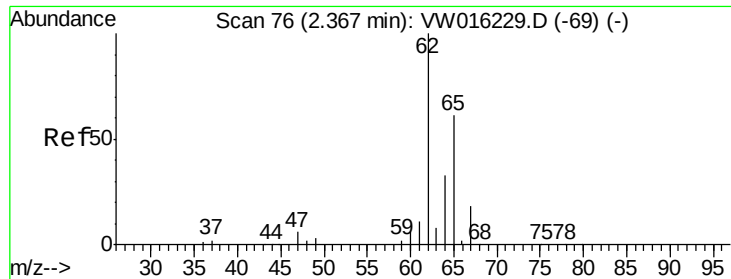
52 34.4 22.0 40.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 22.909 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

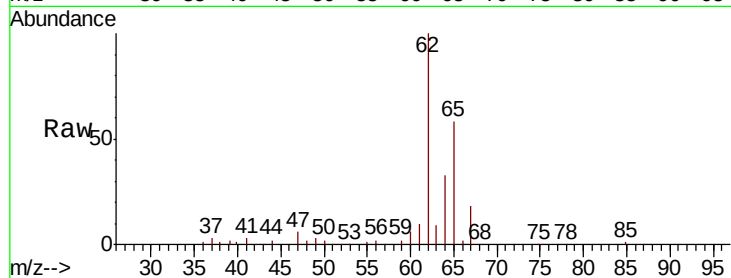
ClientSampled :

Tot Ion: 62 Resp: 115209

Ion Ratio Lower Upper

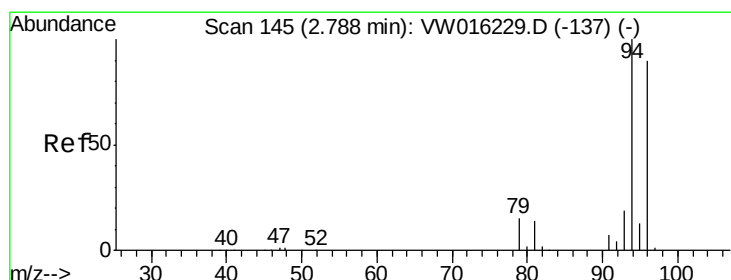
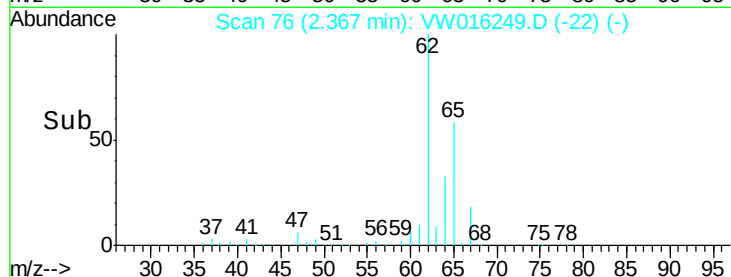
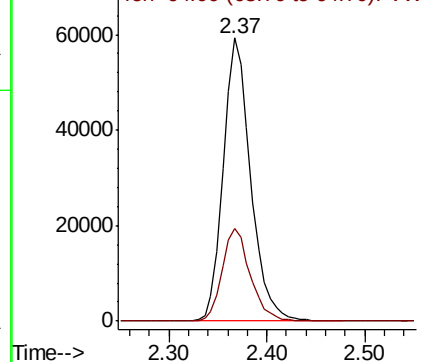
62 100

64 32.8 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 22.755 ug/L

RT: 2.79 min Scan# 145

Delta R.T. -0.00 min

Lab File: VW016249.D

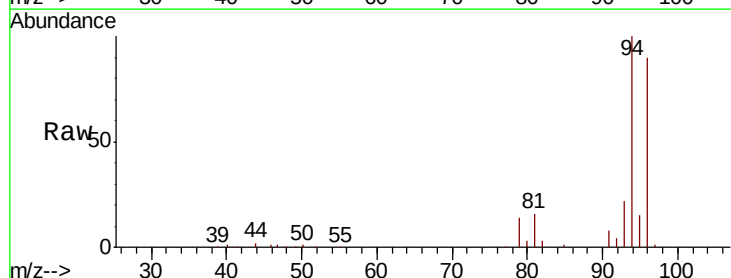
Acq: 19 Aug 2020 10:16

Tgt Ion: 94 Resp: 71670

Ion Ratio Lower Upper

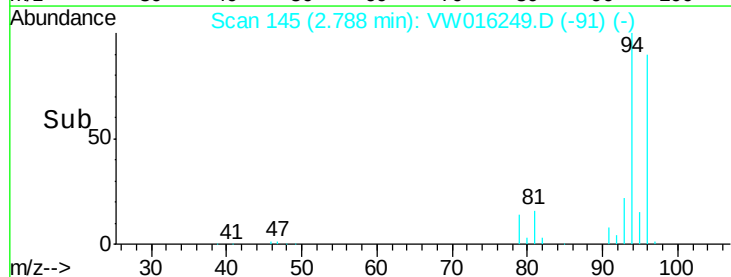
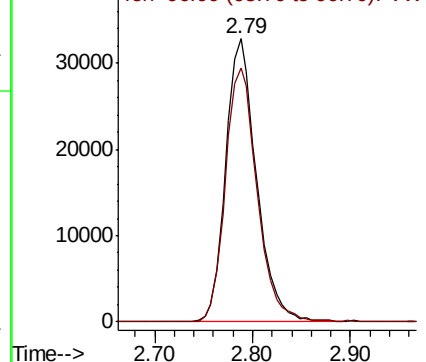
94 100

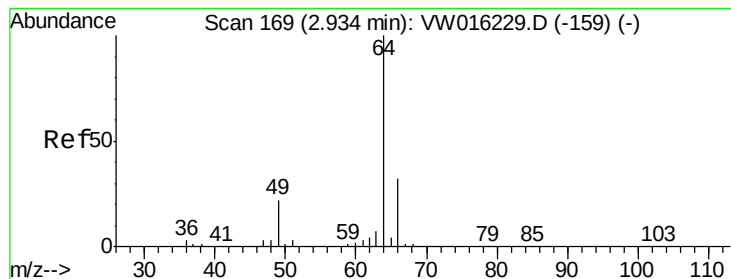
96 92.4 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 22.932 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

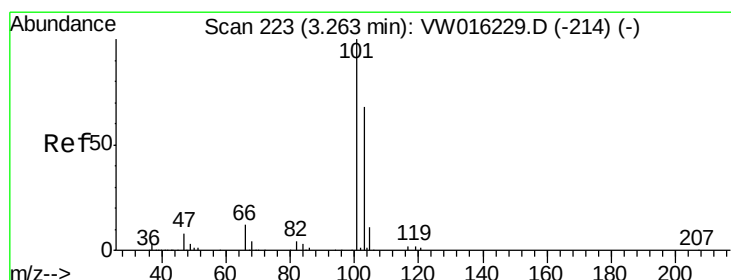
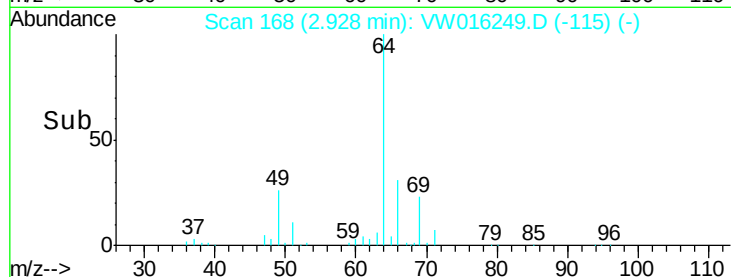
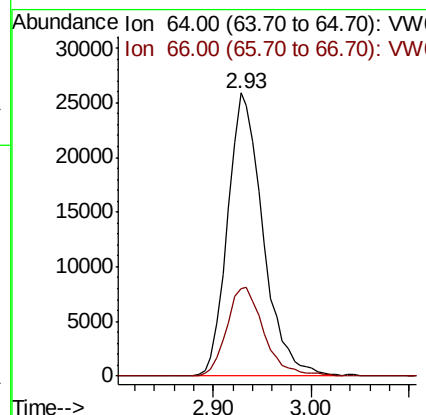
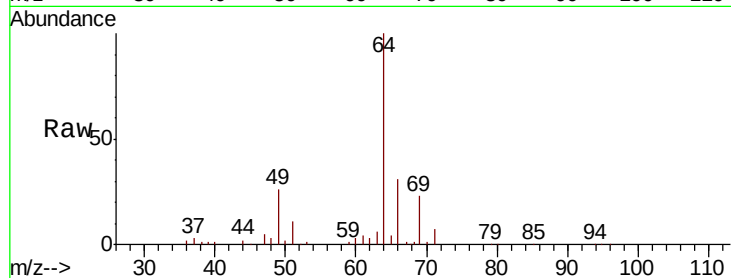
ClientSampleId :

Tot Ion: 64 Resp: 64940

Ion Ratio Lower Upper

64 100

66 31.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 28.526 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW016249.D

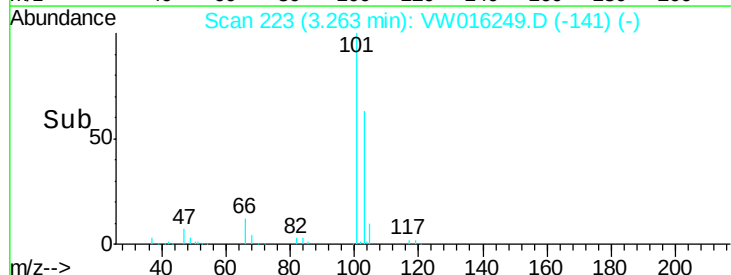
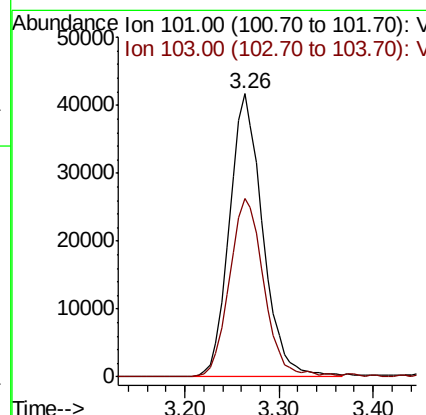
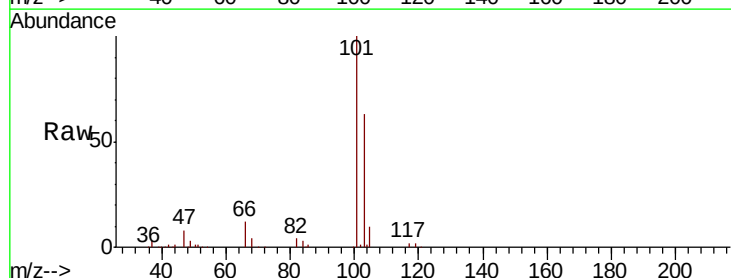
Acq: 19 Aug 2020 10:16

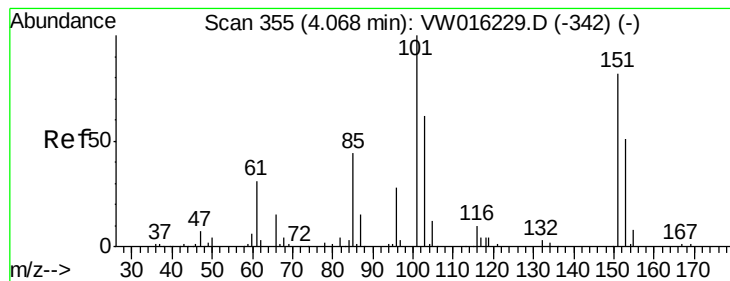
Tgt Ion: 101 Resp: 102400

Ion Ratio Lower Upper

101 100

103 64.1 45.6 84.6





#11

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

Concen: 25.209 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampleId :

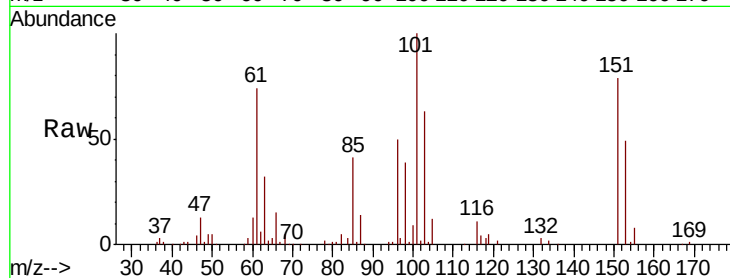
Tot Ion:101 Resp: 127885

Ion Ratio Lower Upper

101 100

85 40.7 34.2 51.4

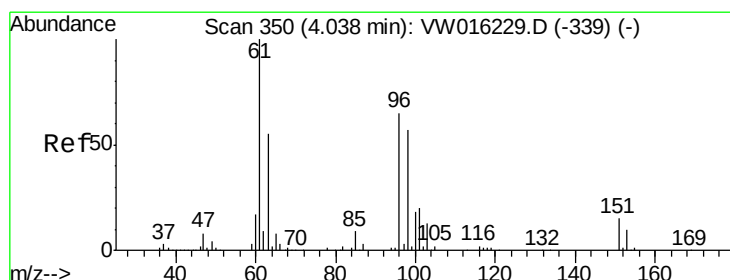
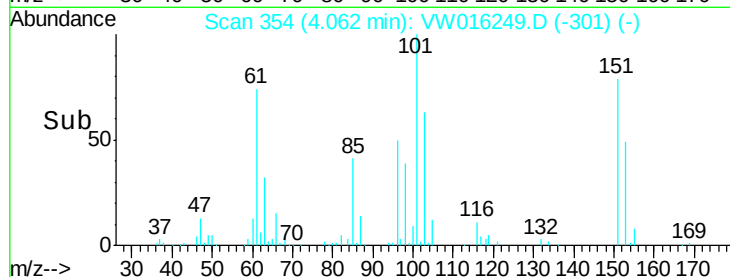
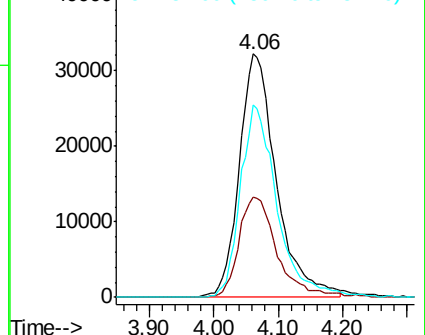
151 77.9 57.4 86.2



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: 25.199 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

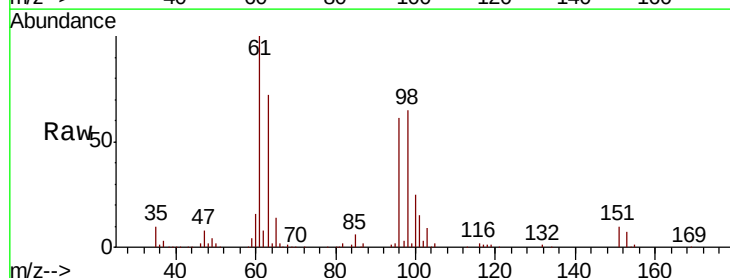
Tgt Ion: 96 Resp: 122160

Ion Ratio Lower Upper

96 100

61 162.6 120.2 223.2

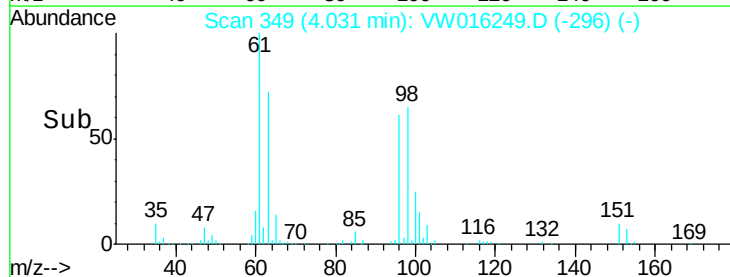
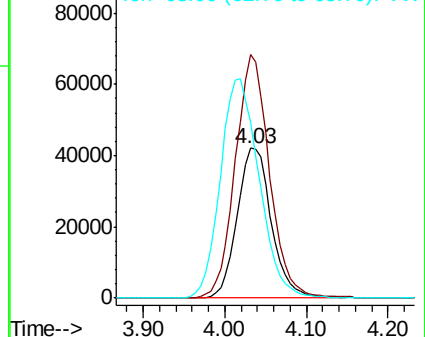
63 117.2 86.4 160.4

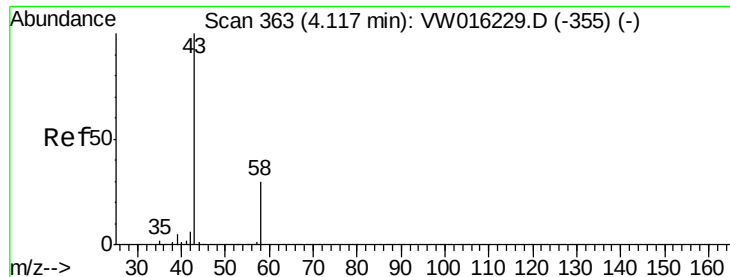


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 39.576 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

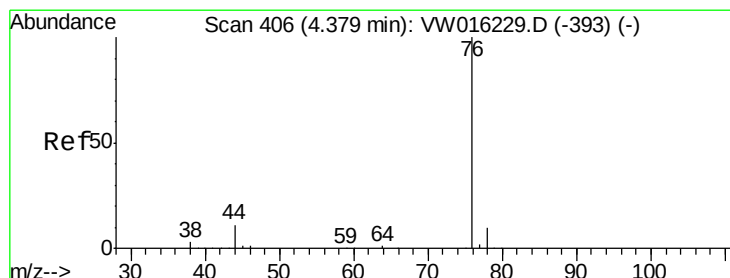
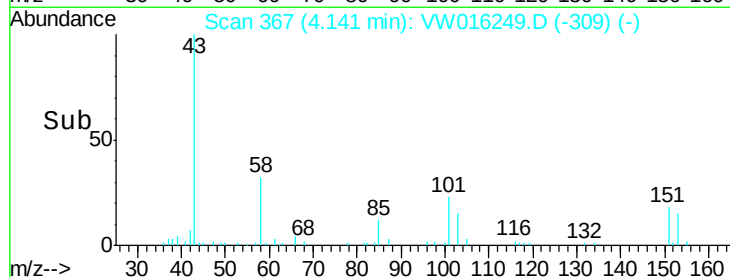
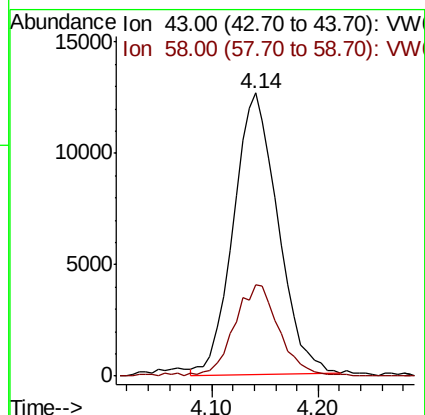
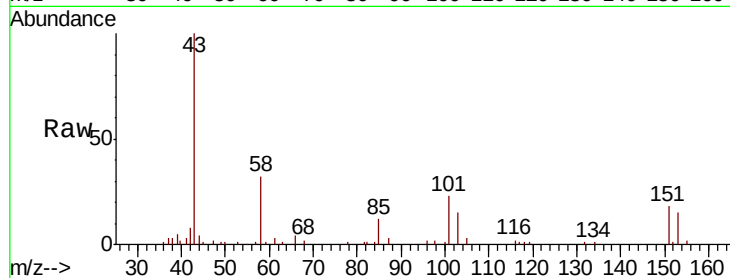
ClientSampleId :

Tot Ion: 43 Resp: 36892

Ion Ratio Lower Upper

43 100

58 32.6 0.0 59.4



#14

Carbon disulfide

Concen: 24.582 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW016249.D

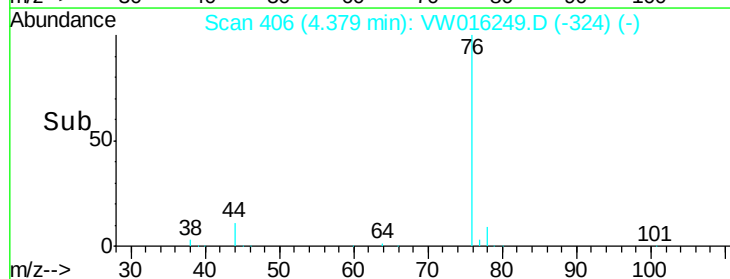
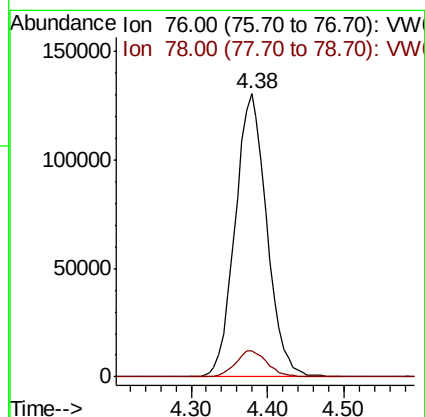
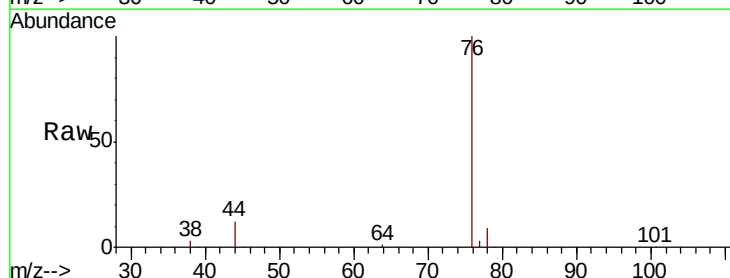
Acq: 19 Aug 2020 10:16

Tgt Ion: 76 Resp: 374061

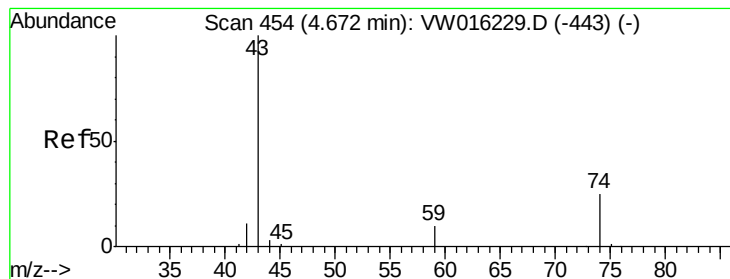
Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.4







#15

Methvl Acetate

Concen: 18.206 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

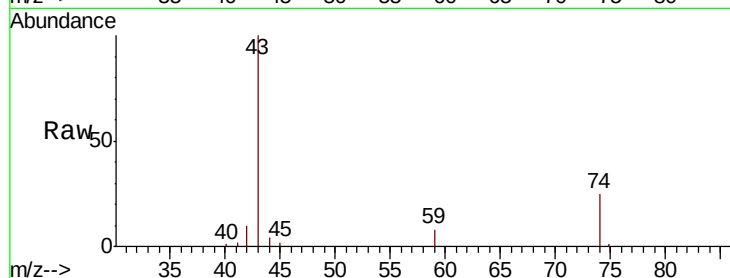
ClientSampled :

Tot Ion: 43 Resp: 39905

Ion Ratio Lower Upper

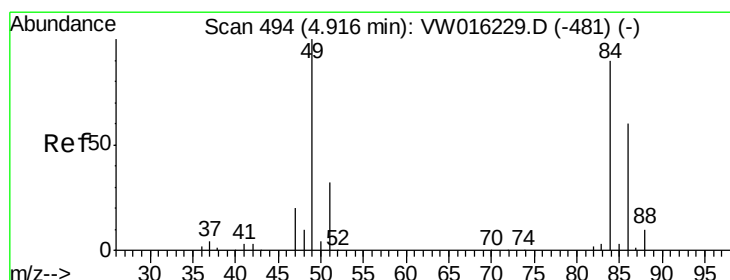
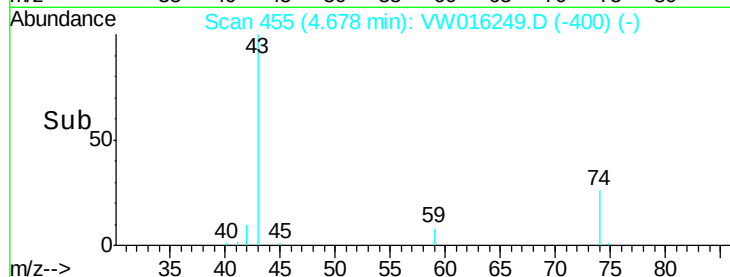
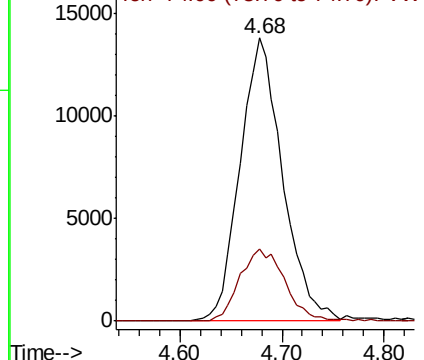
43 100

74 26.8 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 22.024 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

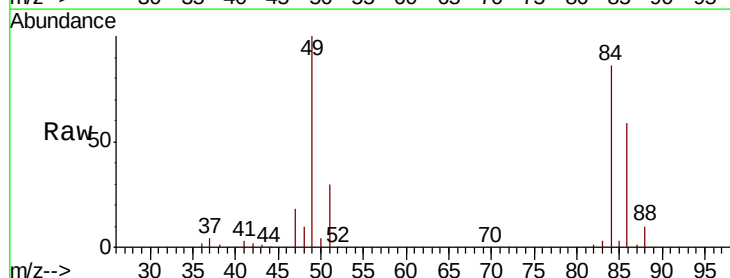
Tgt Ion: 84 Resp: 131357

Ion Ratio Lower Upper

84 100

49 116.2 80.4 149.4

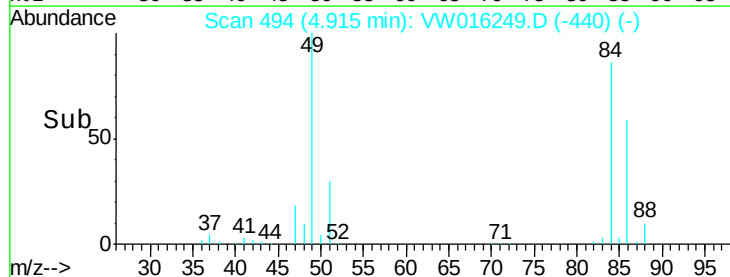
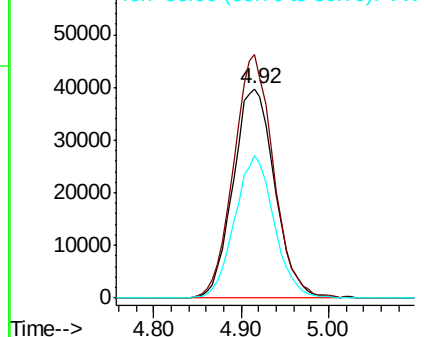
86 68.2 43.8 81.3

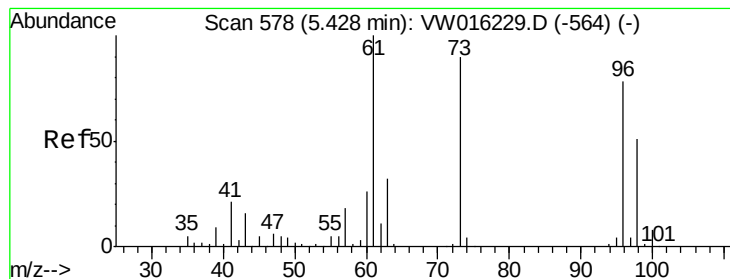


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#17

Methyl tert-butyl Ether

Concen: 22.810 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampled :

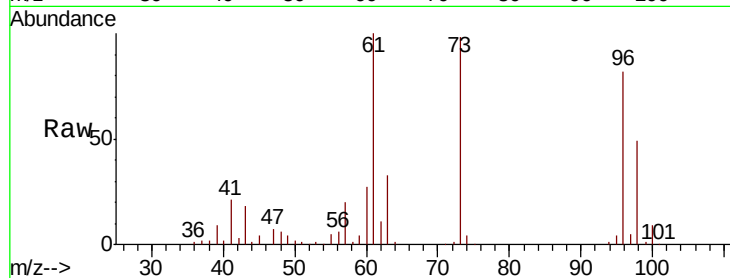
Tot Ion: 73 Resp: 156701

Ion Ratio Lower Upper

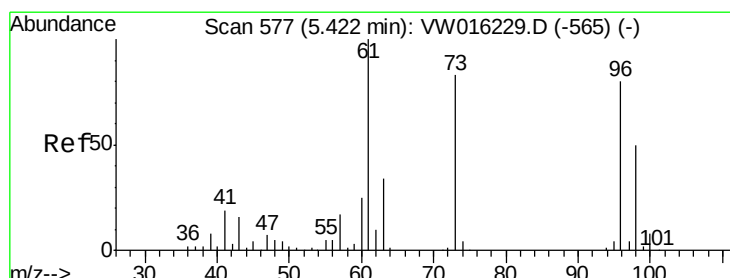
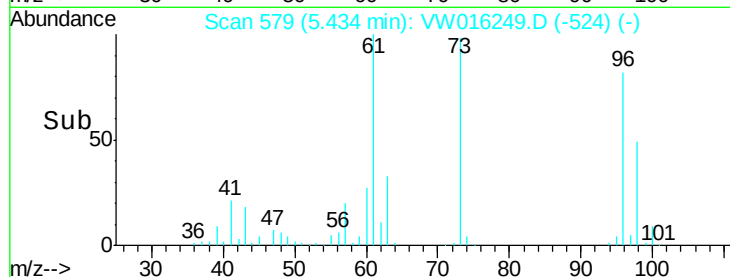
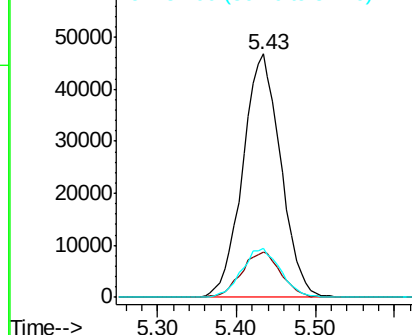
73 100

43 19.2 16.6 24.8

57 20.3 17.1 25.7



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



#18

trans-1,2-Dichloroethene

Concen: 24.703 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

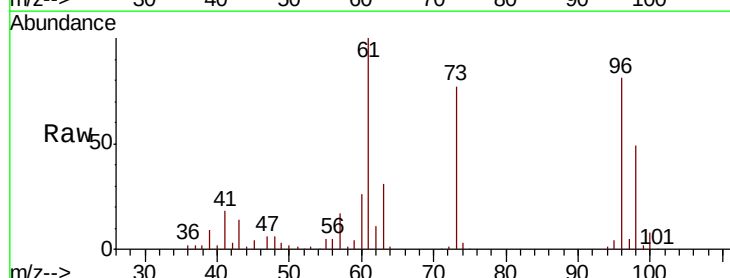
Tgt Ion: 96 Resp: 125969

Ion Ratio Lower Upper

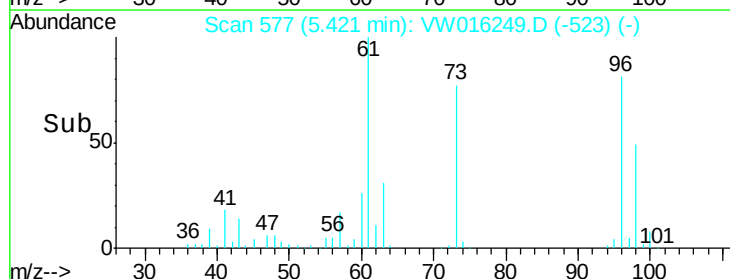
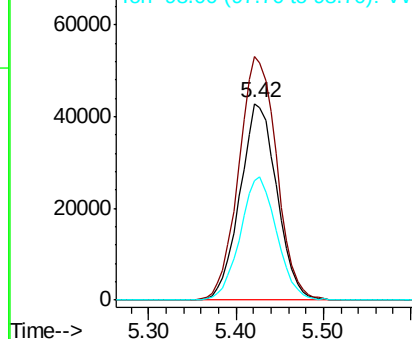
96 100

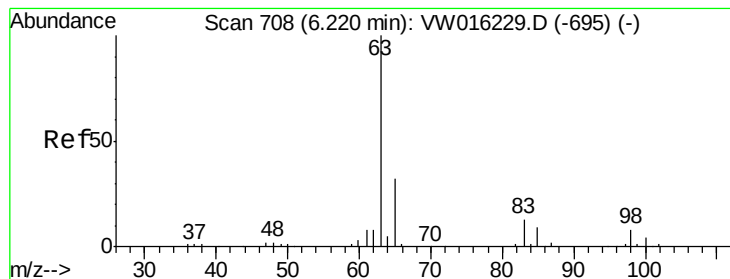
61 123.8 101.6 188.8

98 61.0 47.7 88.7



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





#19

1,1-Dichloroethane

Concen: 23.043 ug/L

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampleId :

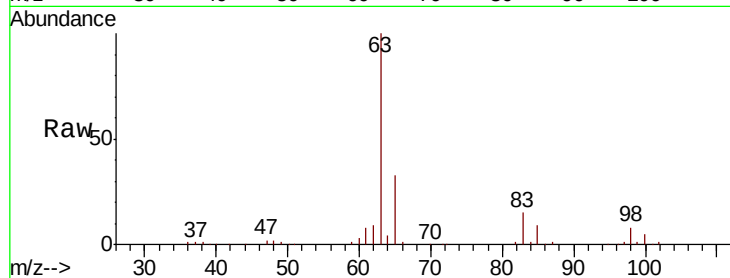
Tot Ion: 63 Resp: 207902

Ion Ratio Lower Upper

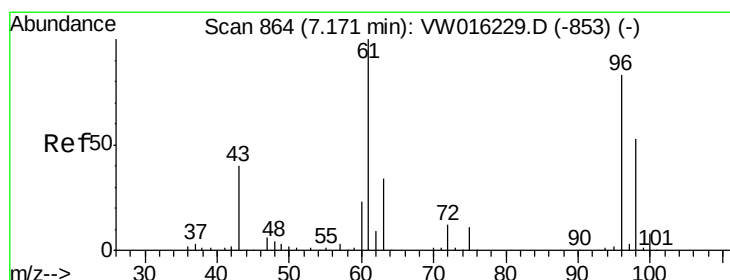
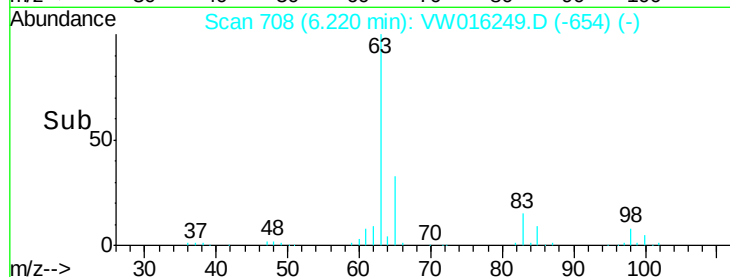
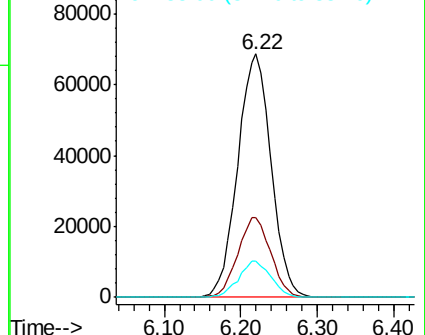
63 100

65 32.5 21.6 40.0

83 14.7 9.8 18.2



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



#21

2-Butanone

Concen: 36.027 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW016249.D

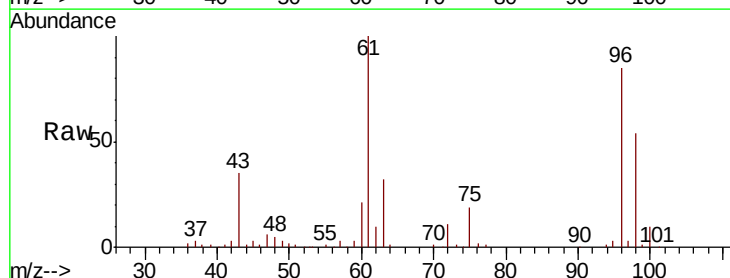
Acq: 19 Aug 2020 10:16

Tgt Ion: 43 Resp: 53226

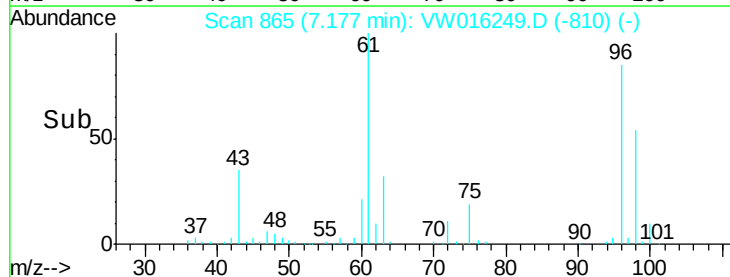
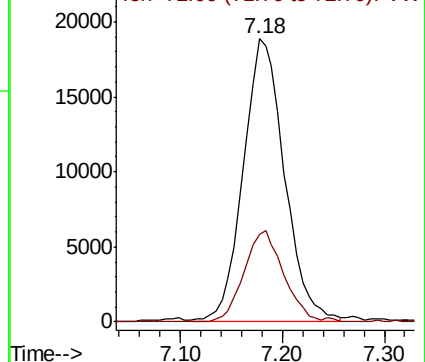
Ion Ratio Lower Upper

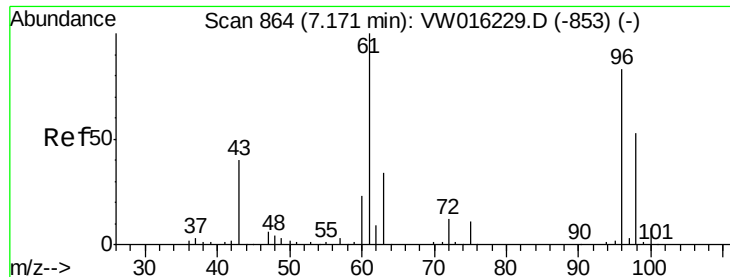
43 100

72 30.6 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW



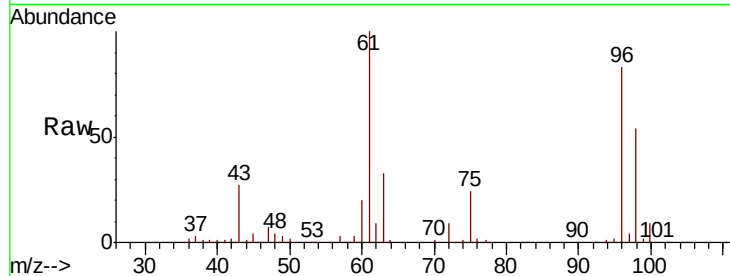


#22

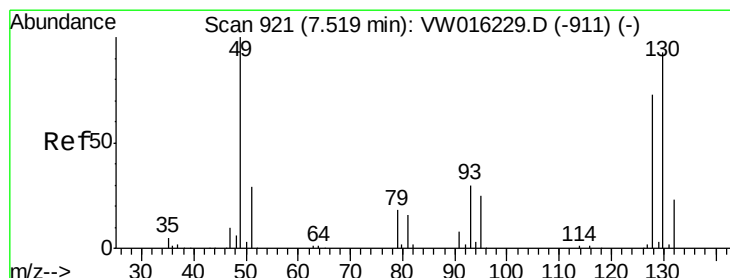
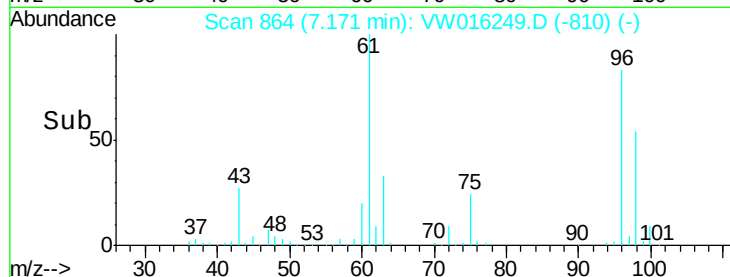
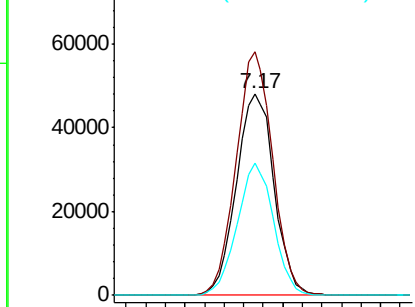
cis-1,2-Dichloroethene  
 Concen: 23.949 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 96 Resp: 128835  
 Ion Ratio Lower Upper  
 96 100  
 61 120.7 87.0 161.6  
 98 65.5 44.0 81.6



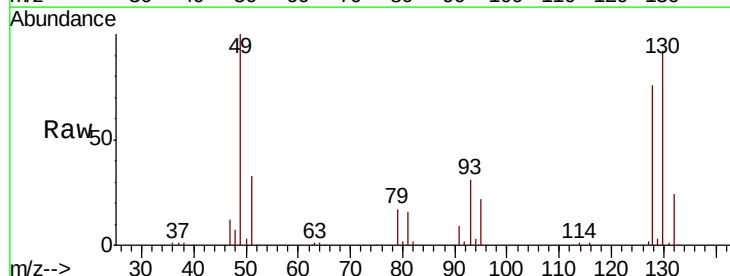
Abundance Ion 96.00 (95.70 to 96.70): VW  
 Ion 61.00 (60.70 to 61.70): VW  
 Ion 98.00 (97.70 to 98.70): VW



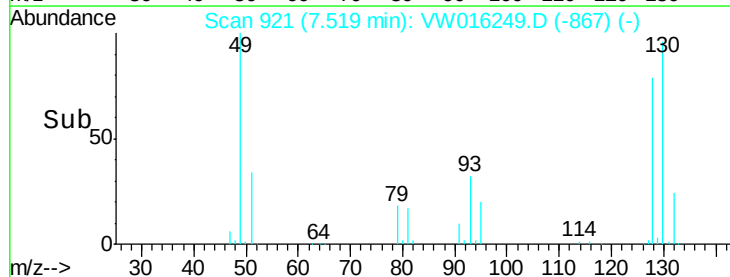
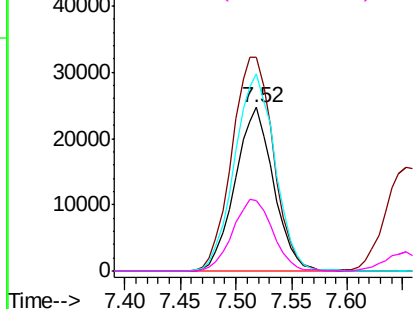
#23

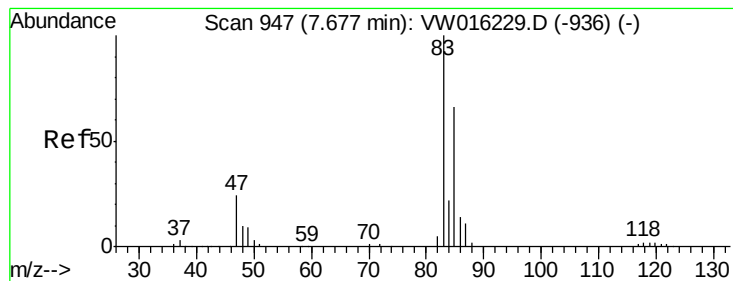
Bromochloromethane  
 Concen: 23.939 ug/L  
 RT: 7.52 min Scan# 921  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Tgt Ion:128 Resp: 59105  
 Ion Ratio Lower Upper  
 128 100  
 49 130.8 111.8 207.6  
 130 120.7 90.6 168.3  
 51 43.0 42.6 63.8



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 49.00 (48.70 to 49.70): VW  
 Ion 130.00 (129.70 to 130.70): V  
 Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 23.188 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

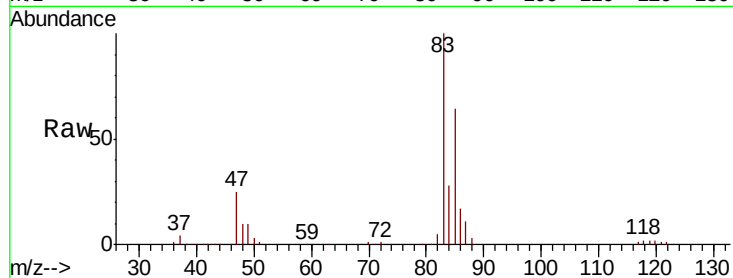
ClientSampleId :

Tot Ion: 83 Resp: 222579

Ion Ratio Lower Upper

83 100

85 65.9 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

7.68

100000

80000

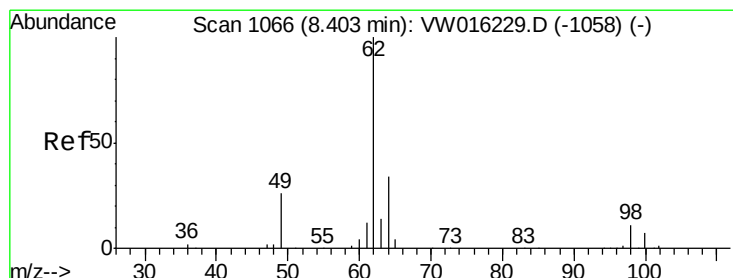
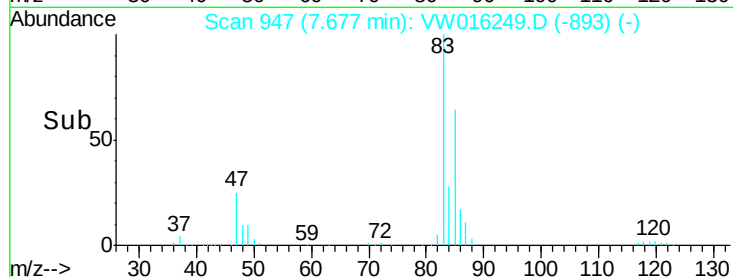
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 20.652 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VW016249.D

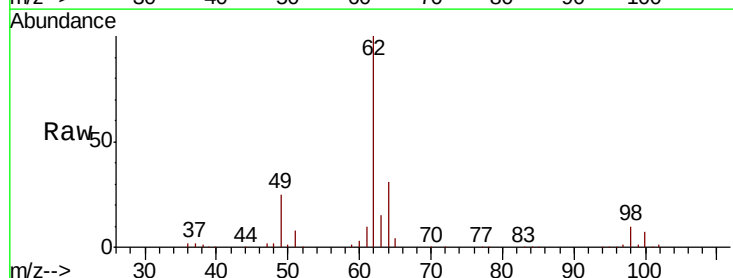
Acq: 19 Aug 2020 10:16

Tgt Ion: 62 Resp: 132049

Ion Ratio Lower Upper

62 100

98 10.0 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.40

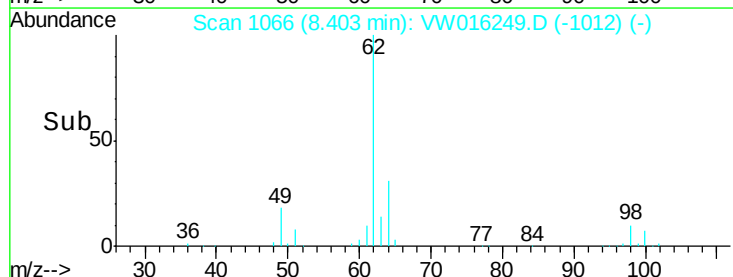
60000

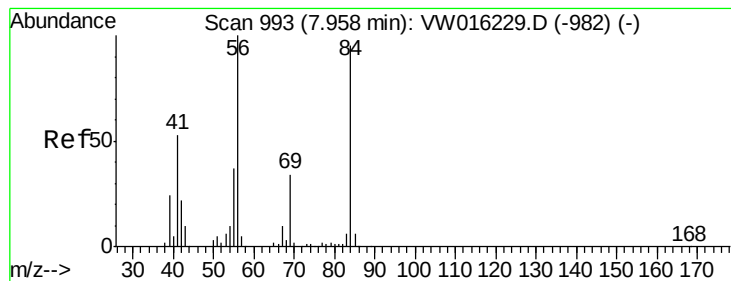
40000

20000

0

Time-->





#30

Cyclohexane

Concen: 24.365 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampled :

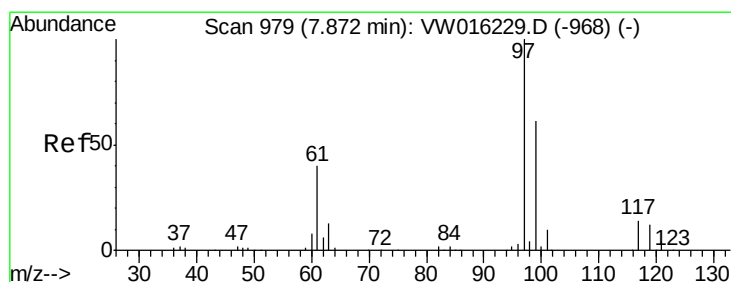
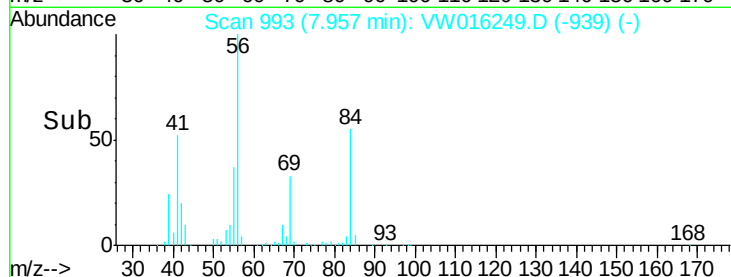
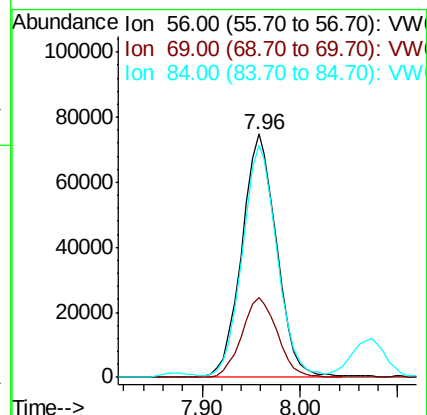
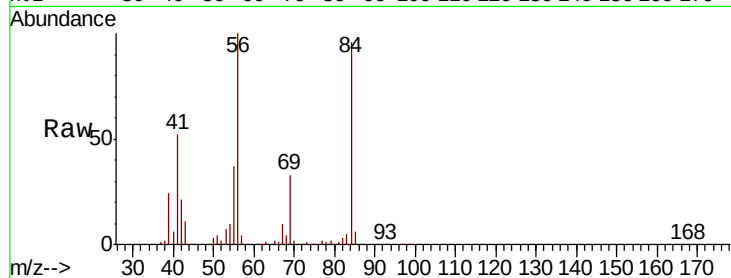
Tot Ion: 56 Resp: 185527

Ion Ratio Lower Upper

56 100

69 33.5 25.4 38.0

84 95.3 73.0 109.6



#31

1,1,1-Trichloroethane

Concen: 24.663 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

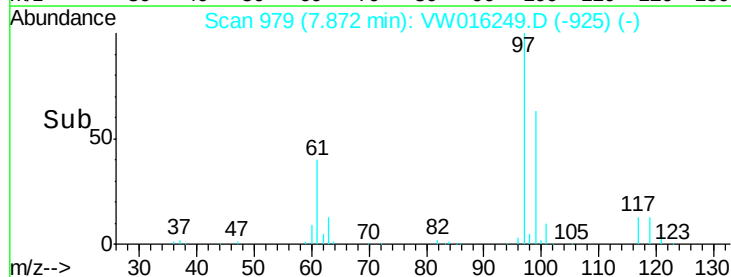
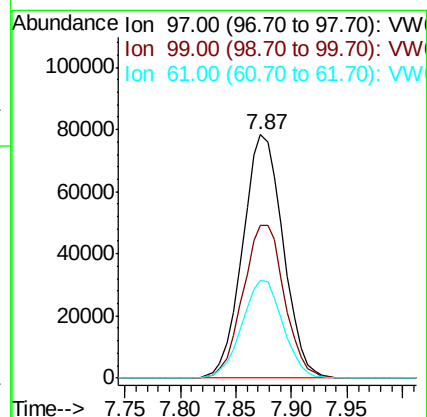
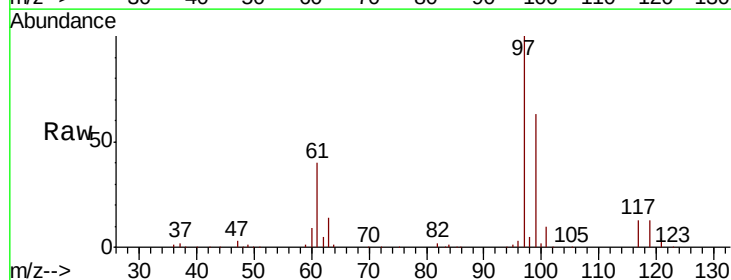
Tgt Ion: 97 Resp: 198330

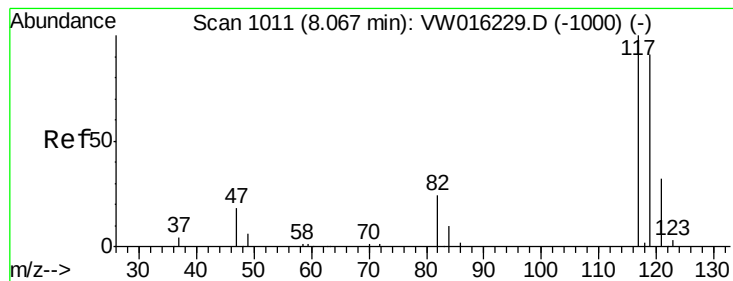
Ion Ratio Lower Upper

97 100

99 64.2 51.6 77.4

61 40.7 34.5 51.7





#32

Carbon tetrachloride

Concen: 24.494 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

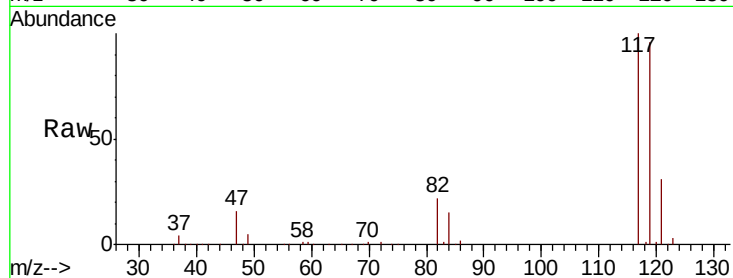
ClientSampleId :

Tot Ion:117 Resp: 186293

Ion Ratio Lower Upper

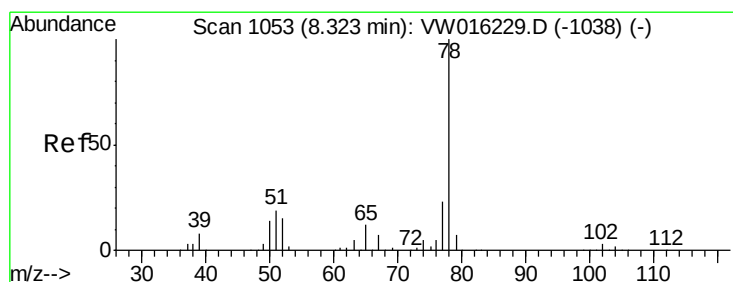
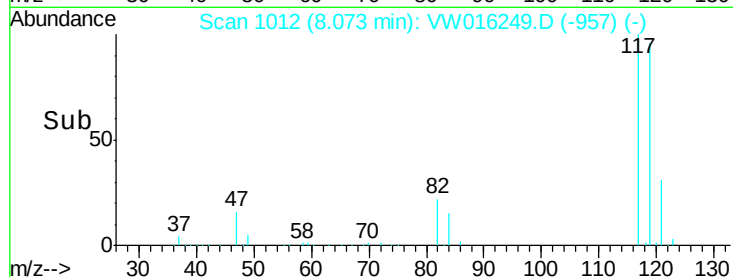
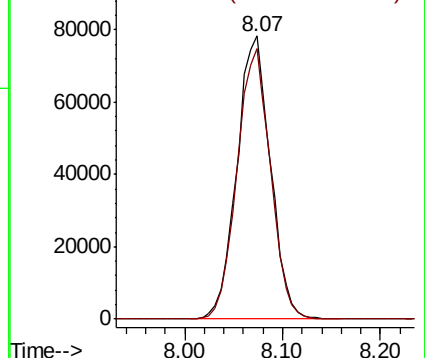
117 100

119 95.4 75.2 112.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.521 ug/L

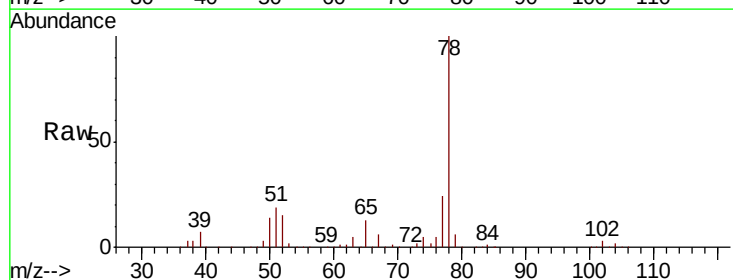
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

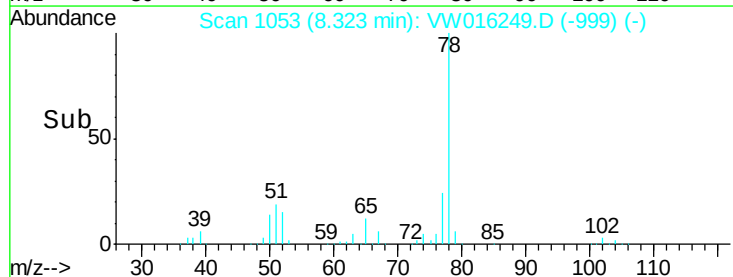
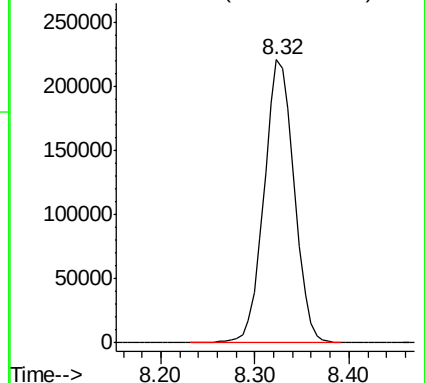
Lab File: VW016249.D

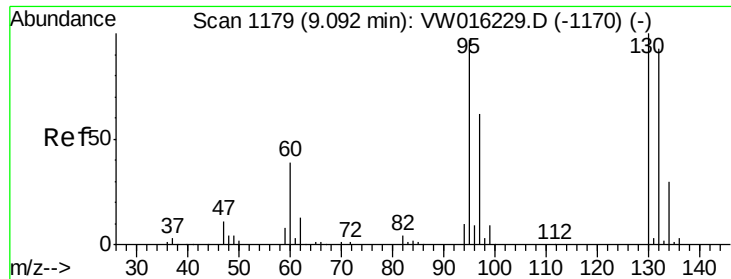
Acq: 19 Aug 2020 10:16

Tgt Ion: 78 Resp: 494849



Abundance Ion 78.00 (77.70 to 78.70): VW

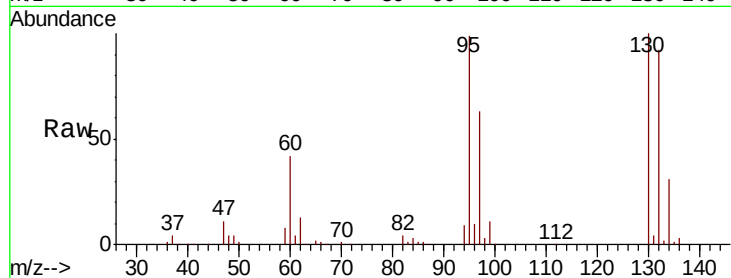




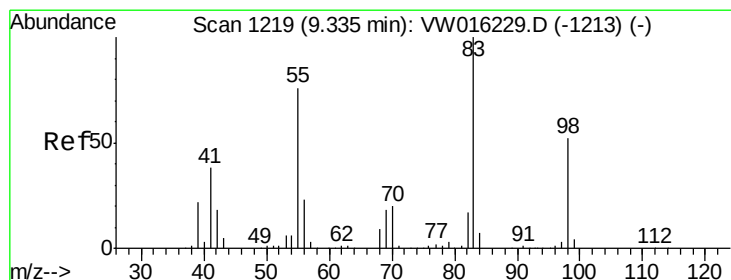
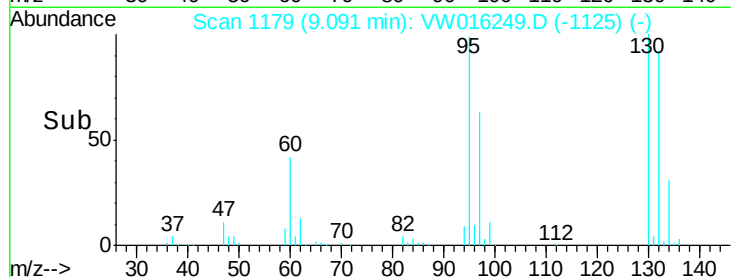
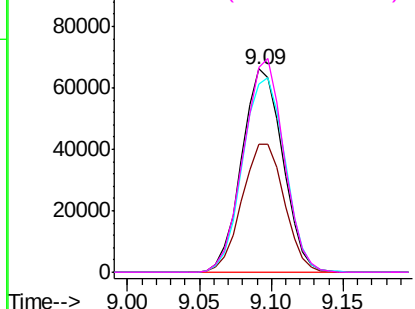
#35  
 Trichloroethene  
 Concen: 24.123 ug/L  
 RT: 9.09 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 95 Resp: 130903  
 Ion Ratio Lower Upper  
 95 100  
 97 64.8 44.9 83.3  
 132 98.5 65.8 122.2  
 130 103.4 69.5 129.1

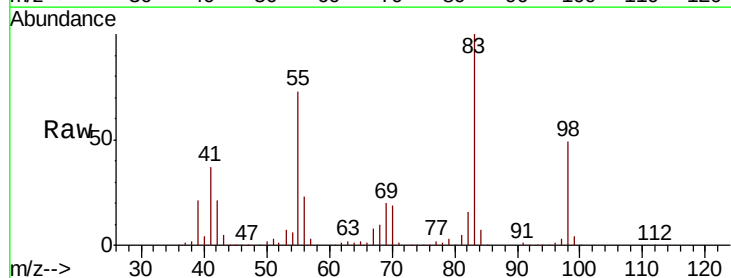


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

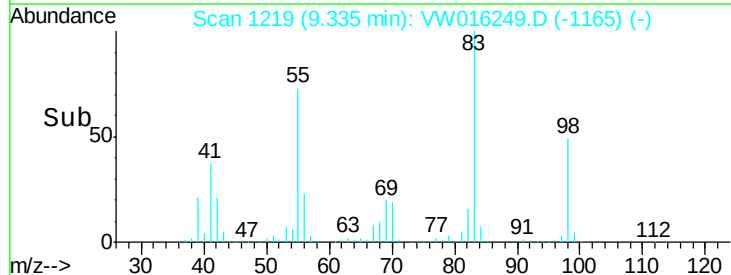
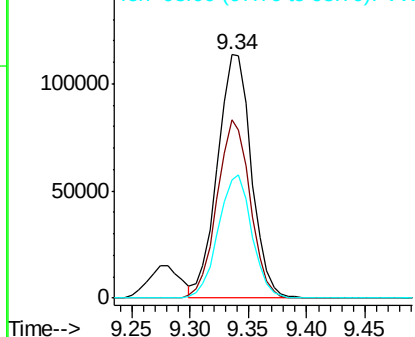


#36  
 Methylcyclohexane  
 Concen: 25.609 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

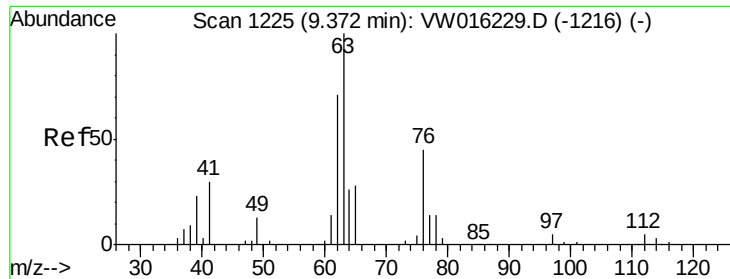
Tgt Ion: 83 Resp: 228924  
 Ion Ratio Lower Upper  
 83 100  
 55 71.6 60.7 91.1  
 98 50.1 39.4 59.0



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



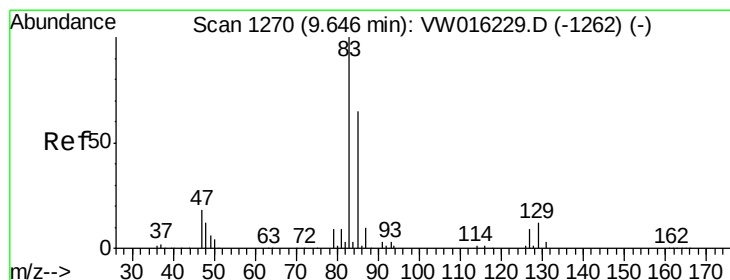
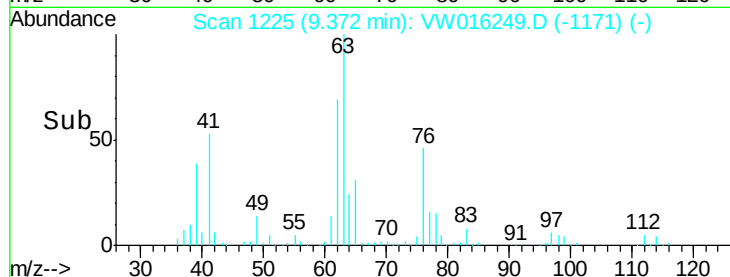
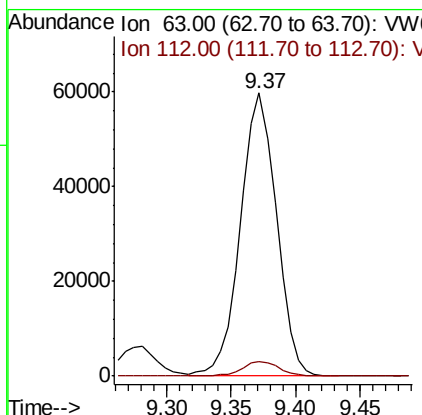
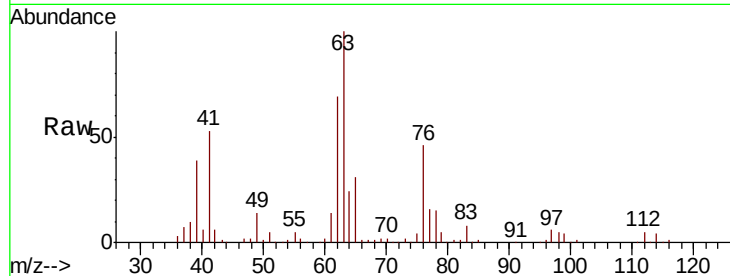




#40  
 1,2-Dichloropropane  
 Concen: 23.357 ug/L  
 RT: 9.37 min Scan# 1225  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

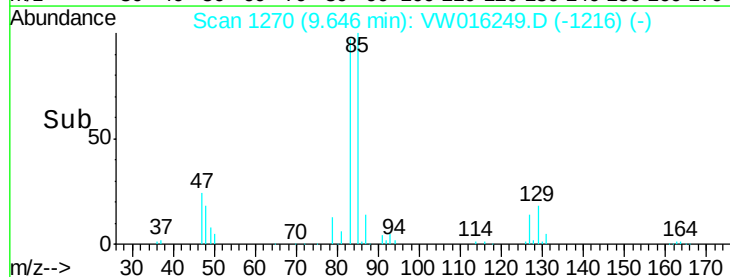
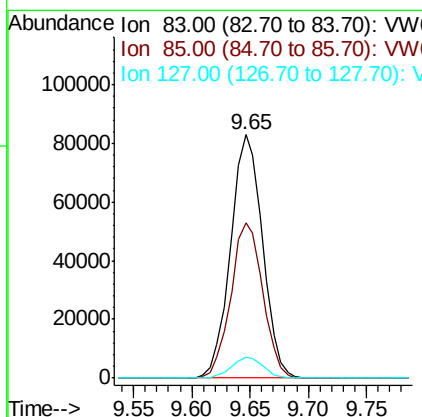
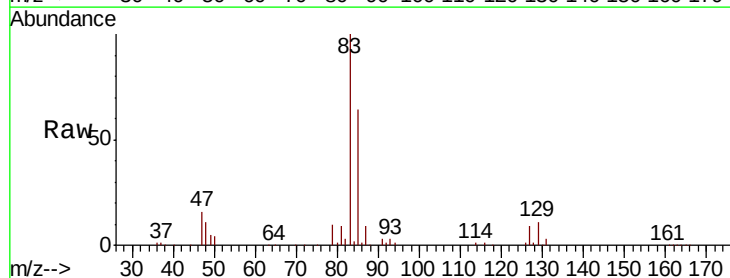
Instrument :  
 MSVOA\_W  
 ClientSampled :

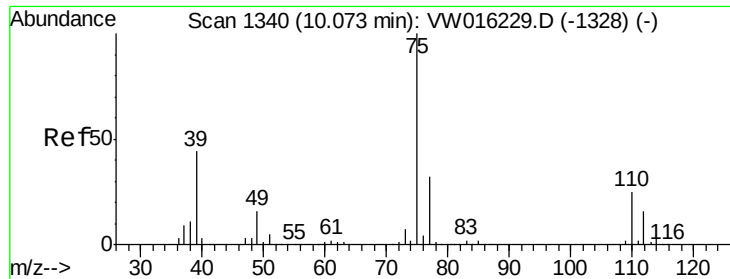
Tot Ion: 63 Resp: 115756  
 Ion Ratio Lower Upper  
 63 100  
 112 5.3 4.0 6.0



#41  
 Bromodichloromethane  
 Concen: 23.251 ug/L  
 RT: 9.65 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Tgt Ion: 83 Resp: 158294  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 46.1 85.5  
 127 8.7 7.2 10.8

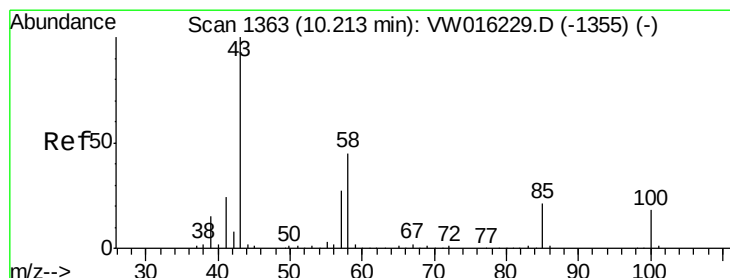
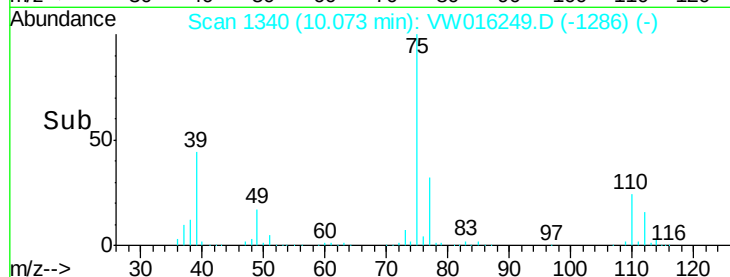
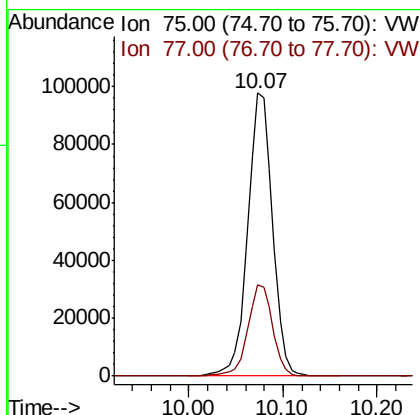
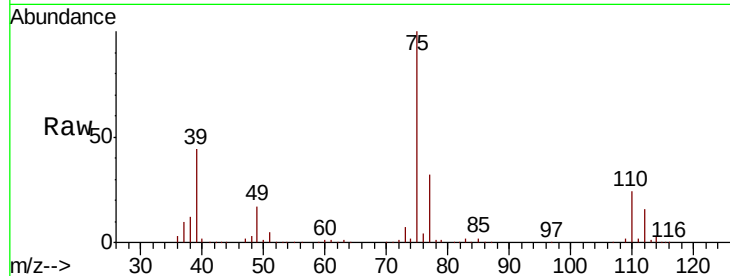




#42  
 cis-1,3-Dichloropropene  
 Concen: 23.987 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

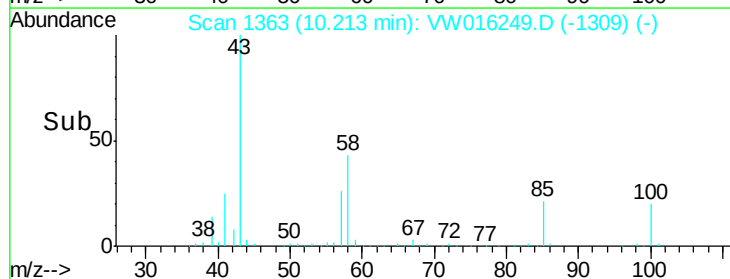
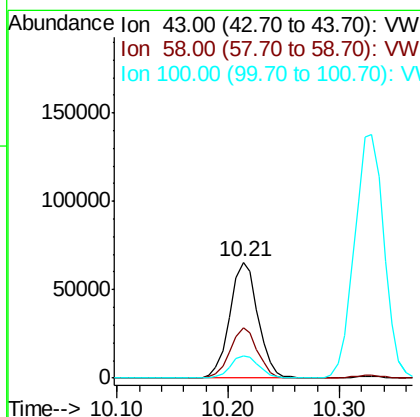
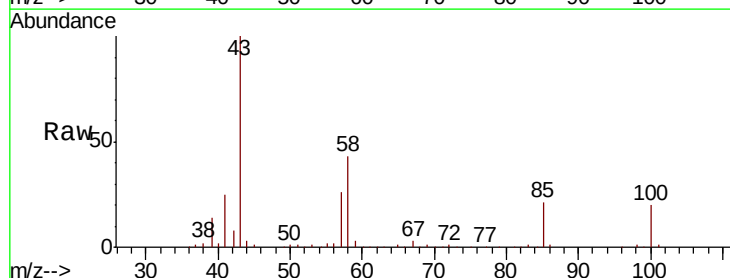
Instrument :  
 MSVOA\_W  
 ClientSampled :

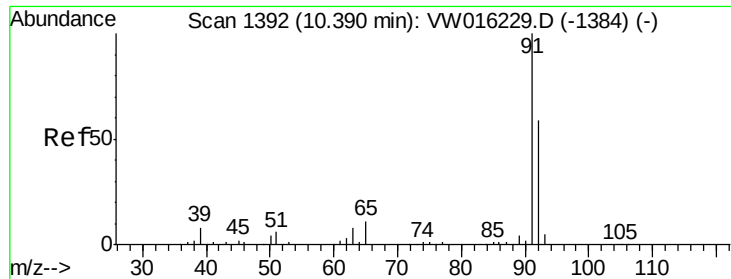
Tot Ion: 75 Resp: 181041  
 Ion Ratio Lower Upper  
 75 100  
 77 32.4 22.9 42.5



#43  
 4-Methyl-2-pentanone  
 Concen: 38.565 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Tgt Ion: 43 Resp: 114955  
 Ion Ratio Lower Upper  
 43 100  
 58 42.4 32.1 48.1  
 100 19.5 13.8 20.8





#44

Toluene

Concen: 25.317 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

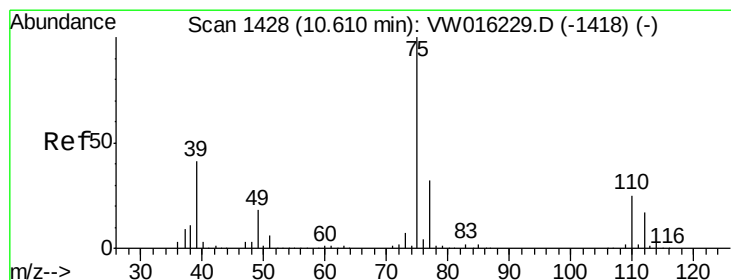
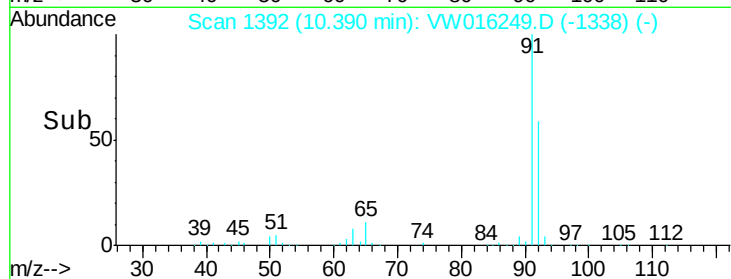
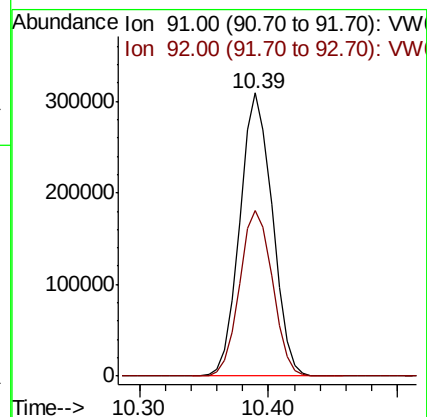
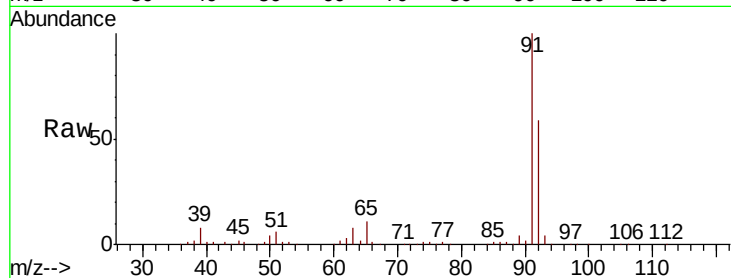
ClientSampleId :

Tot Ion: 91 Resp: 539347

Ion Ratio Lower Upper

91 100

92 58.6 41.8 77.6



#45

trans-1,3-Dichloropropene

Concen: 22.992 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016249.D

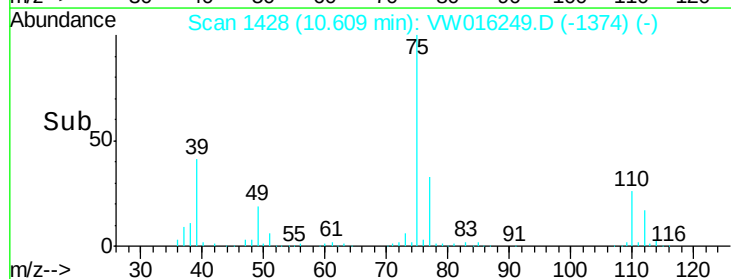
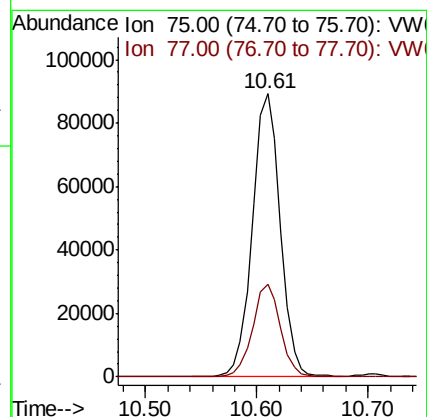
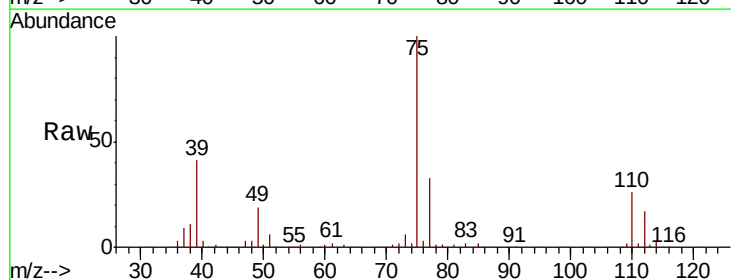
Acq: 19 Aug 2020 10:16

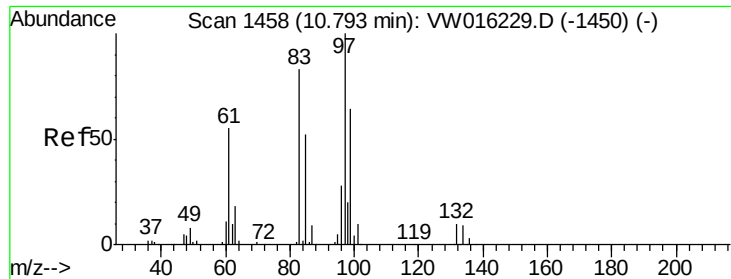
Tgt Ion: 75 Resp: 155884

Ion Ratio Lower Upper

75 100

77 32.9 22.7 42.1

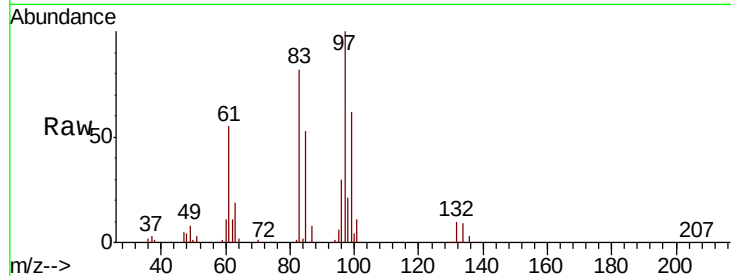




#46  
 1,1,2-Trichloroethane  
 Concen: 22.841 ug/L  
 RT: 10.79 min Scan# 1458  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 89106 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 81.9  | 57.8  | 107.4 |
| 85       | 52.6  | 38.0  | 70.6  |
| 99       | 62.4  | 44.4  | 82.4  |



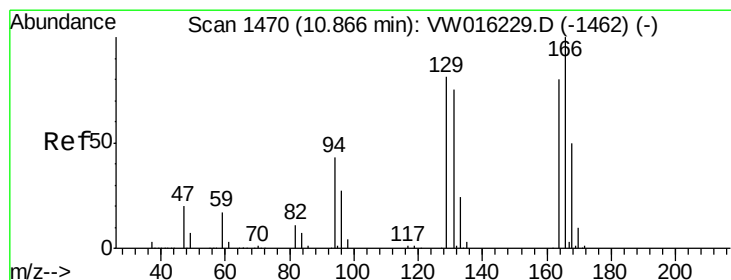
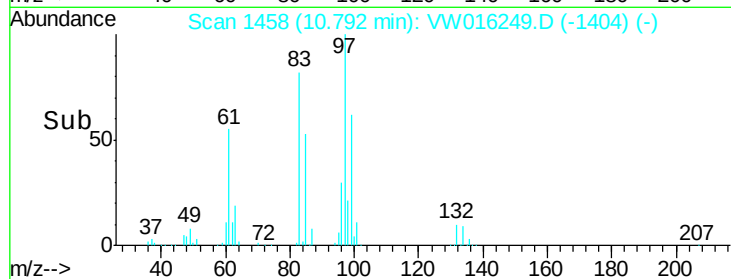
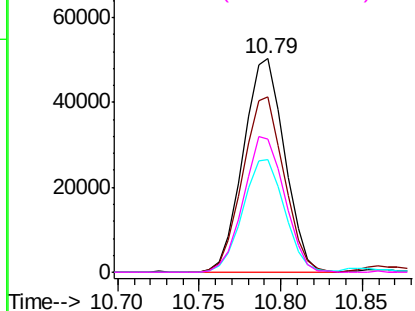
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

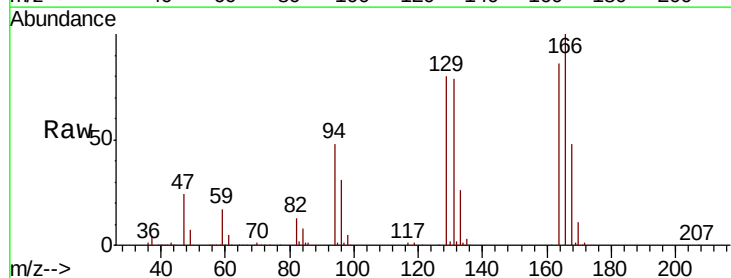
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47  
 Tetrachloroethene  
 Concen: 26.498 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 107797 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 92.7  | 71.5  | 132.9  |
| 131      | 91.4  | 65.4  | 121.4  |
| 166      | 115.6 | 86.9  | 161.5  |



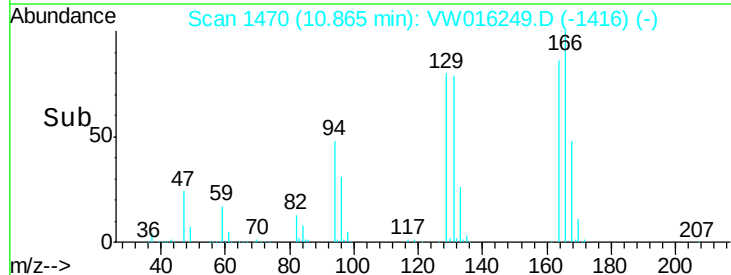
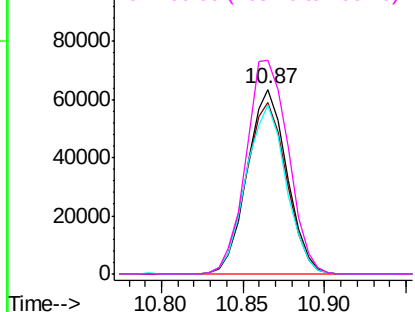
Abundance

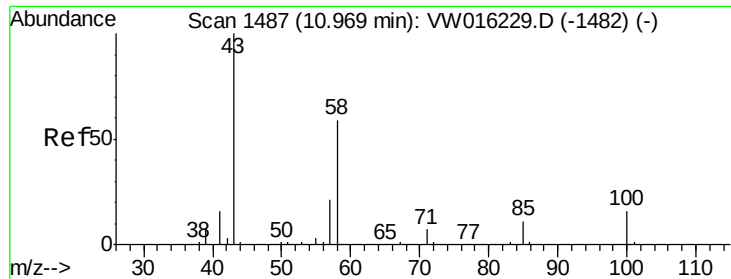
Ion 164.00 (163.70 to 164.70): V

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





#49

2-Hexanone

Concen: 39.474 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 79398

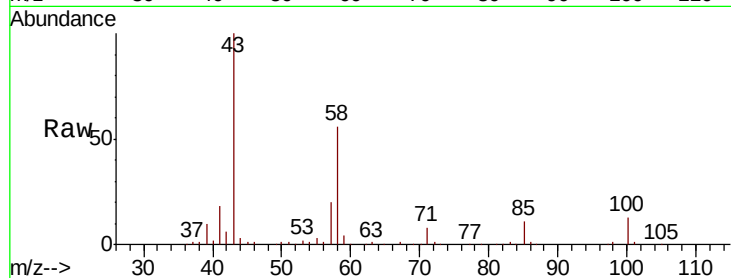
Ion Ratio Lower Upper

43 100

58 59.3 44.2 66.2

57 20.2 15.8 23.6

100 14.7 10.8 16.2

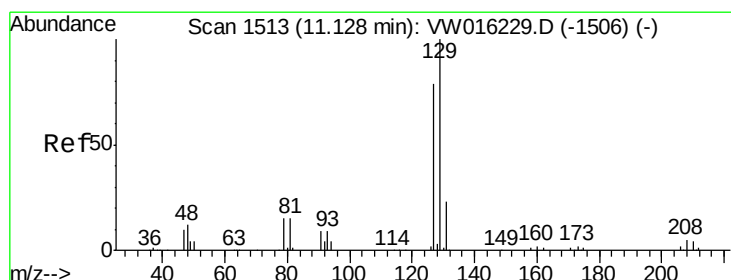
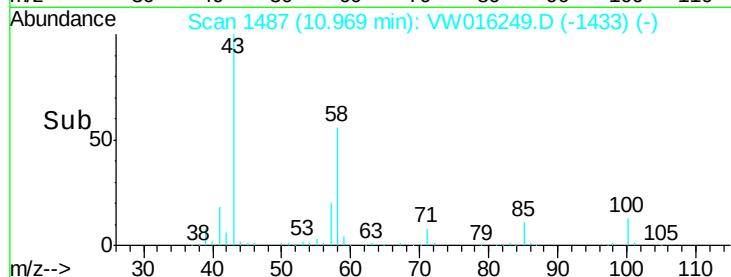
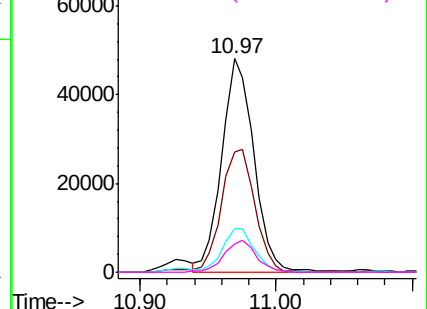


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#50

Dibromochloromethane

Concen: 23.585 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VW016249.D

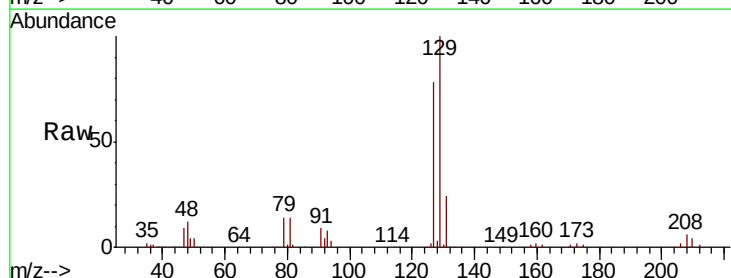
Acq: 19 Aug 2020 10:16

Tgt Ion: 129 Resp: 108366

Ion Ratio Lower Upper

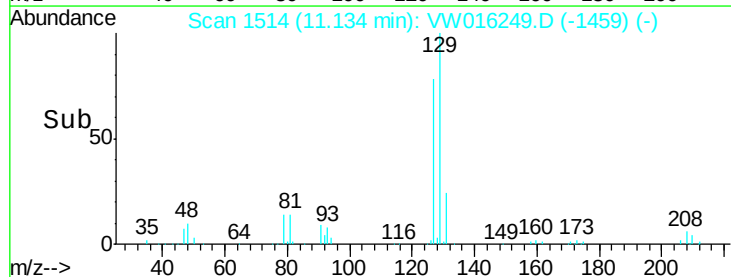
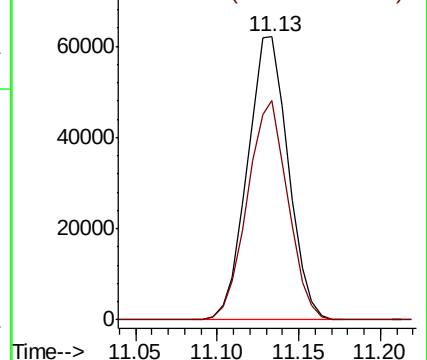
129 100

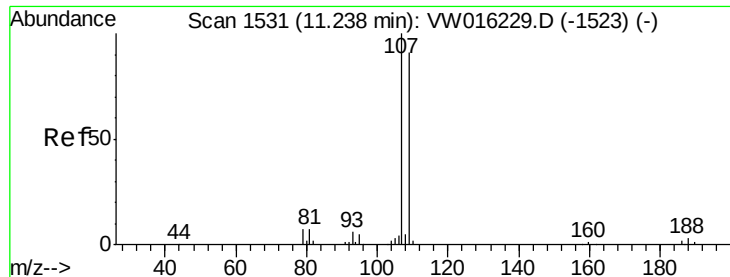
127 77.7 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

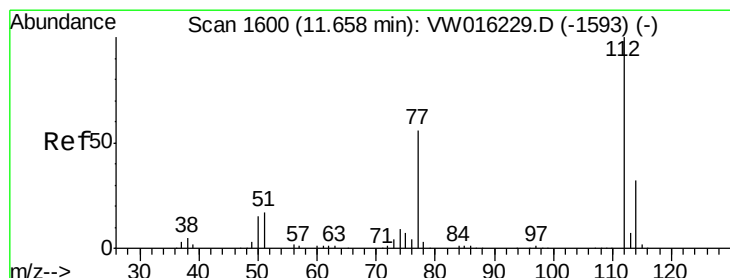
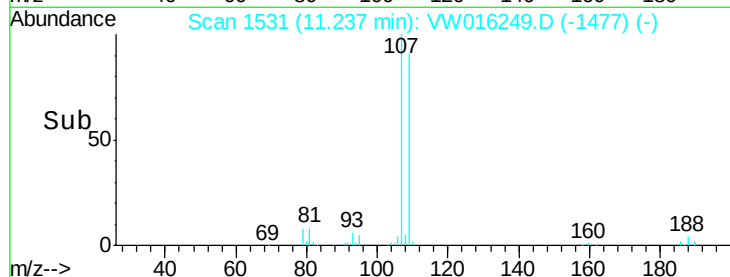
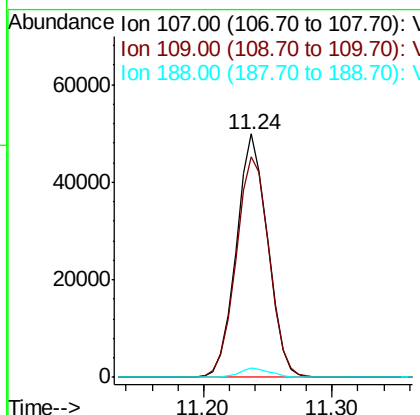
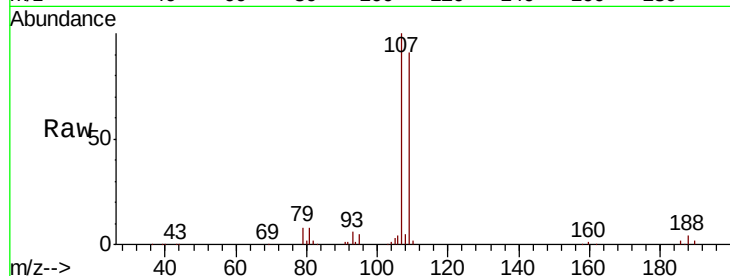




#51  
 1,2-Dibromoethane  
 Concen: 22.777 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

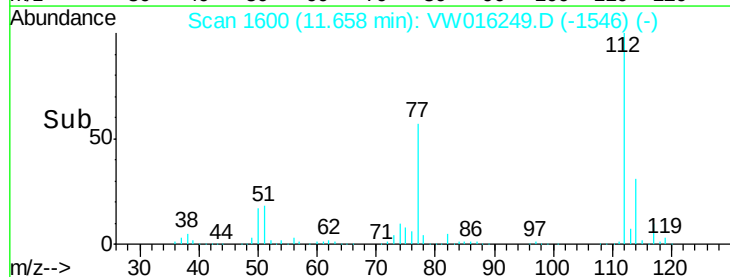
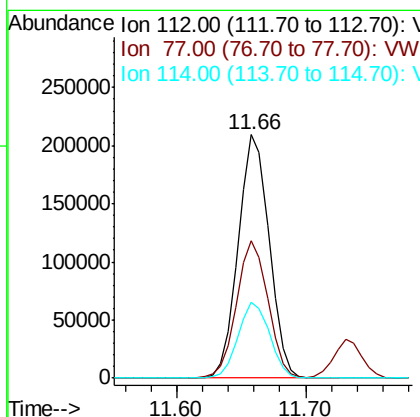
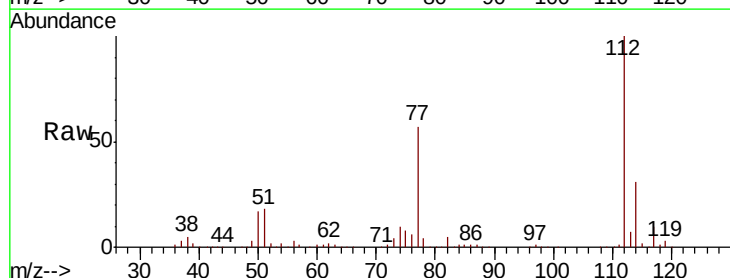
Instrument :  
 MSVOA\_W  
 ClientSampleId :

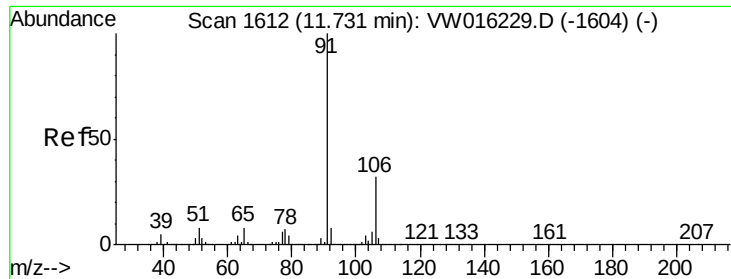
Tot Ion:107 Resp: 84236  
 Ion Ratio Lower Upper  
 107 100  
 109 90.8 66.0 122.6  
 188 3.6 2.8 4.2



#52  
 Chlorobenzene  
 Concen: 24.727 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Tgt Ion:112 Resp: 348532  
 Ion Ratio Lower Upper  
 112 100  
 77 56.6 49.1 73.7  
 114 31.4 23.5 43.7

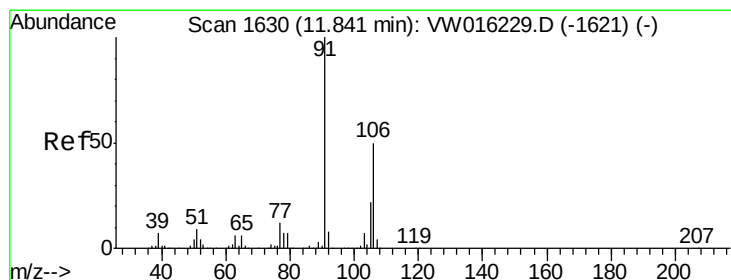
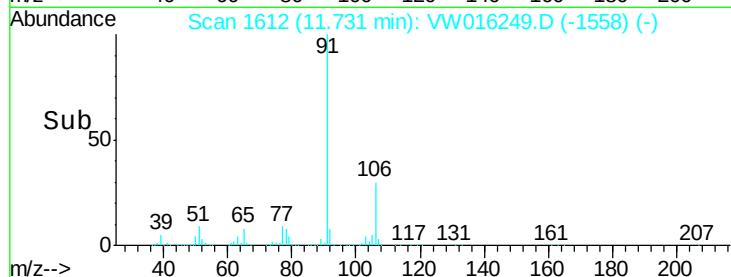
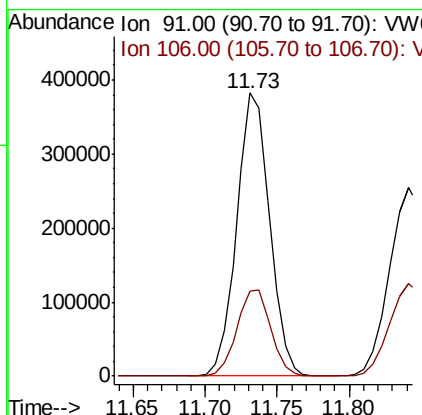
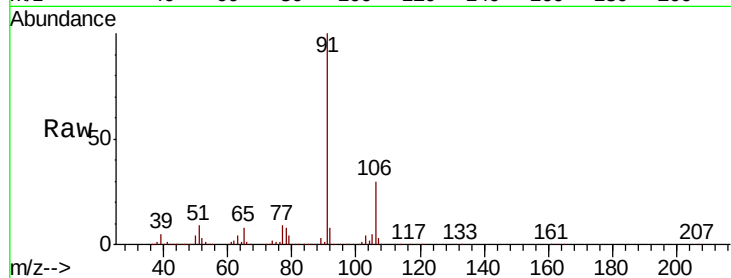




#53  
Ethylbenzene  
Concen: 25.137 ug/L  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW016249.D  
Acq: 19 Aug 2020 10:16

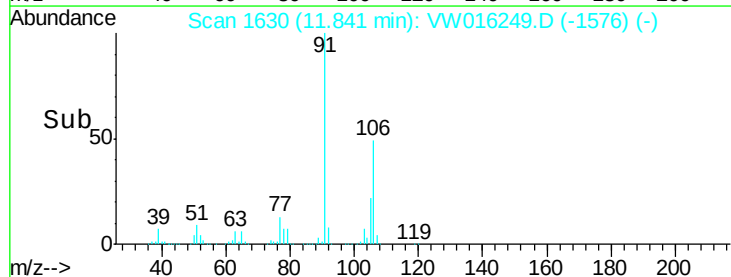
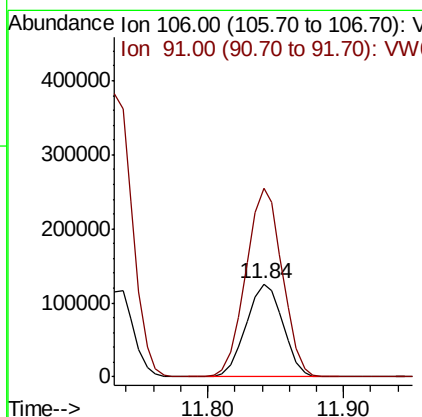
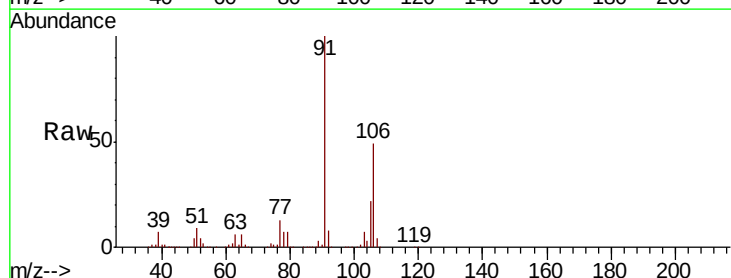
Instrument :  
MSVOA\_W  
ClientSampled :

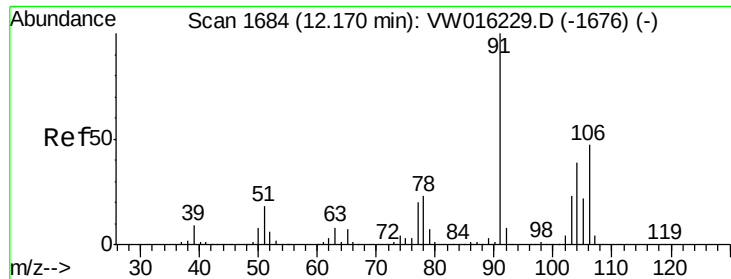
Tot Ion: 91 Resp: 607562  
Ion Ratio Lower Upper  
91 100  
106 29.9 21.8 40.4



#54  
m,p-Xylene  
Concen: 26.165 ug/L  
RT: 11.84 min Scan# 1630  
Delta R.T. -0.00 min  
Lab File: VW016249.D  
Acq: 19 Aug 2020 10:16

Tgt Ion: 106 Resp: 237895  
Ion Ratio Lower Upper  
106 100  
91 202.6 136.4 253.2

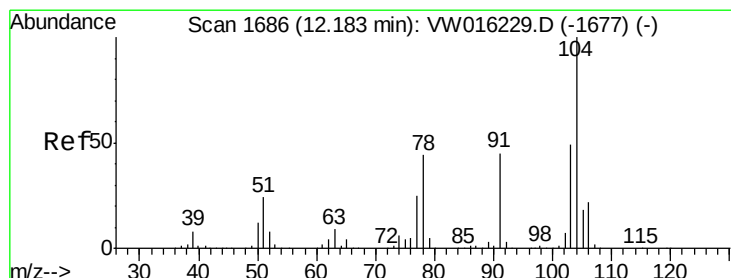
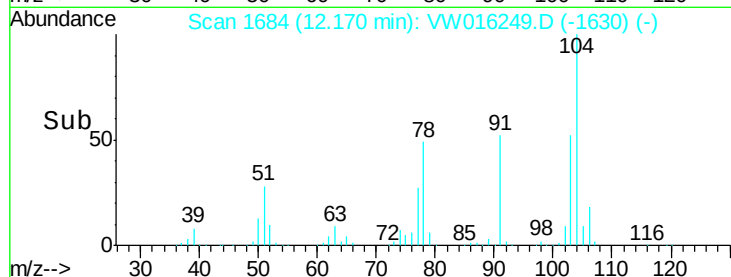
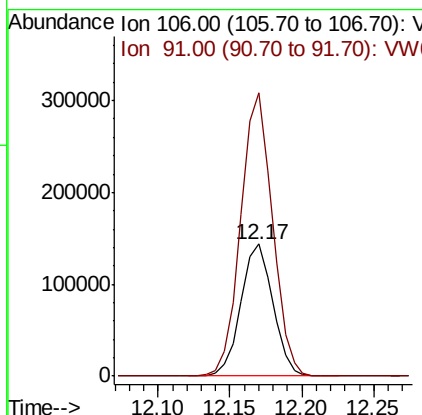
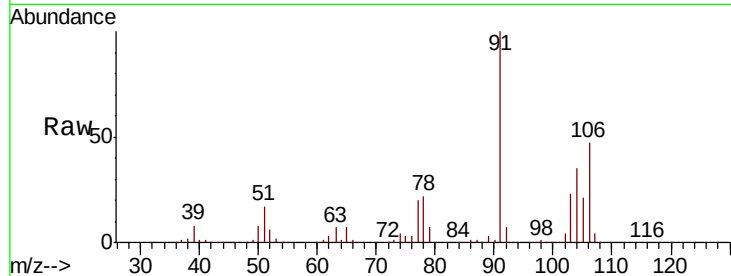




#55  
o-xylene  
Concen: 25.925 ug/L  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW016249.D  
Acq: 19 Aug 2020 10:16

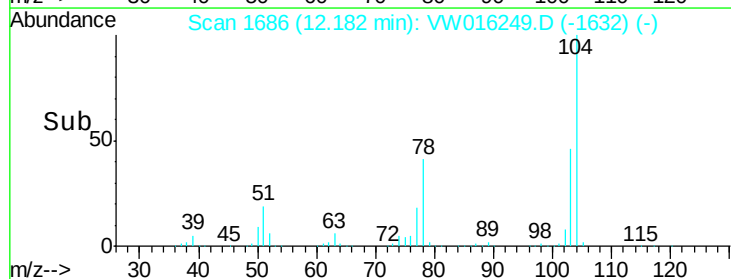
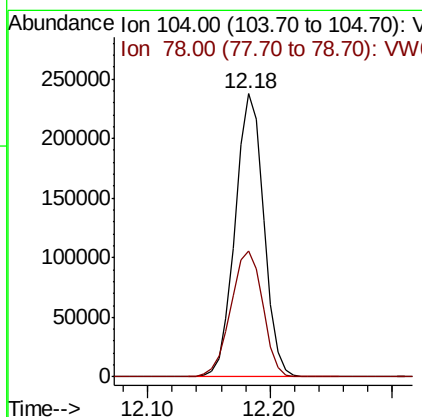
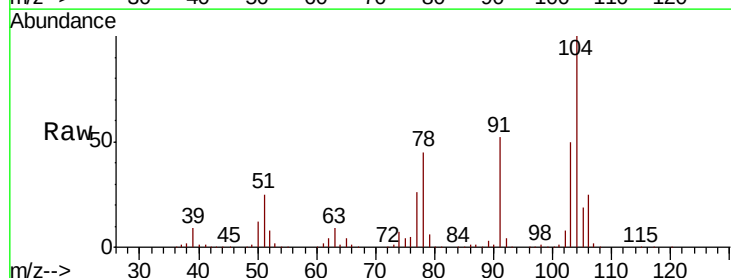
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:106 Resp: 222023  
Ion Ratio Lower Upper  
106 100  
91 214.3 151.3 281.1

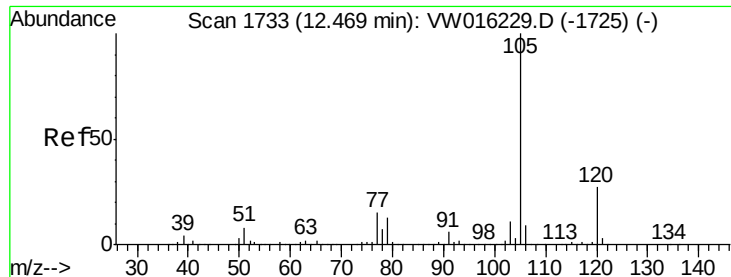


#56  
Styrene  
Concen: 25.870 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW016249.D  
Acq: 19 Aug 2020 10:16

Tgt Ion:104 Resp: 383579  
Ion Ratio Lower Upper  
104 100  
78 44.7 32.0 59.4







#57

Isopropylbenzene

Concen: 26.434 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampled :

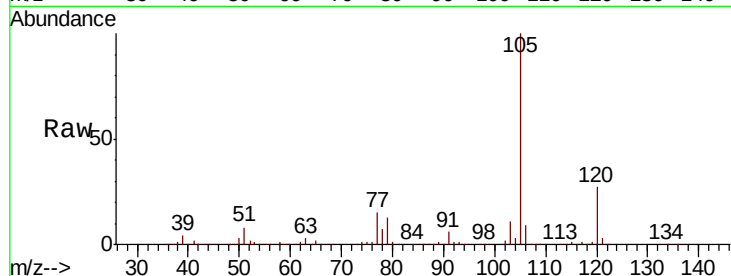
Tot Ion: 105 Resp: 610370

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

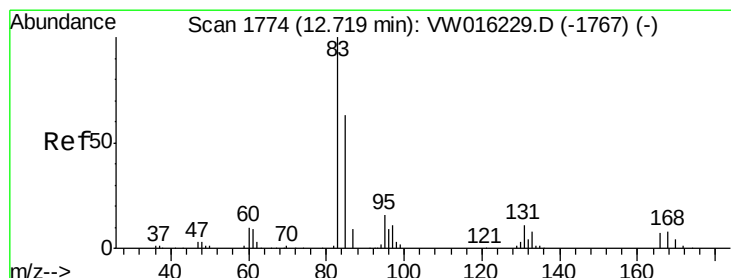
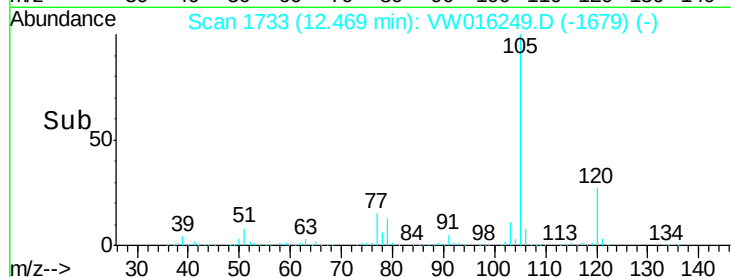
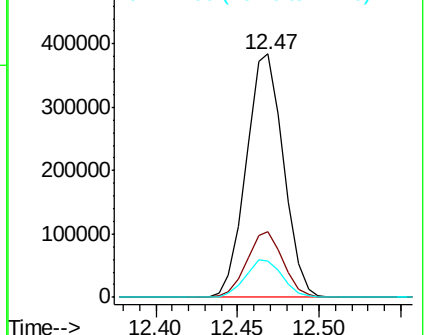
77 15.2 12.6 18.8



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



#58

1,1,2,2-Tetrachloroethane

Concen: 21.978 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

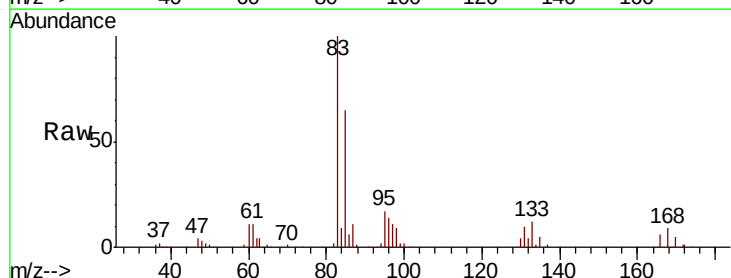
Tgt Ion: 83 Resp: 100039

Ion Ratio Lower Upper

83 100

85 64.9 42.4 78.8

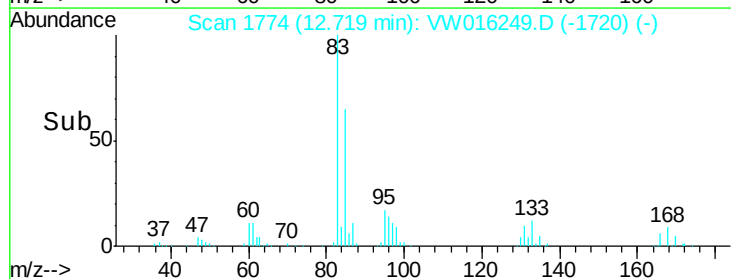
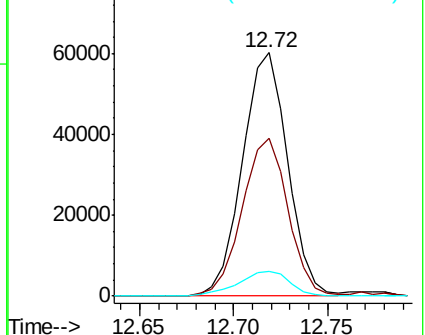
131 9.9 7.8 11.8

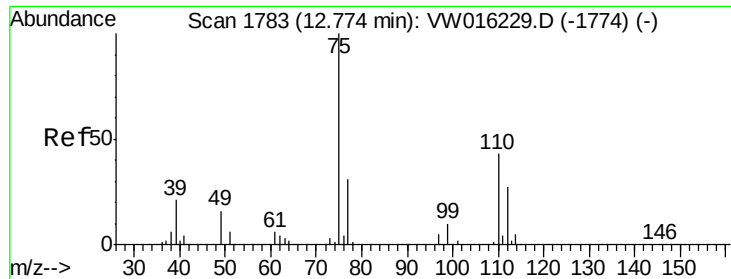


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 21.400 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

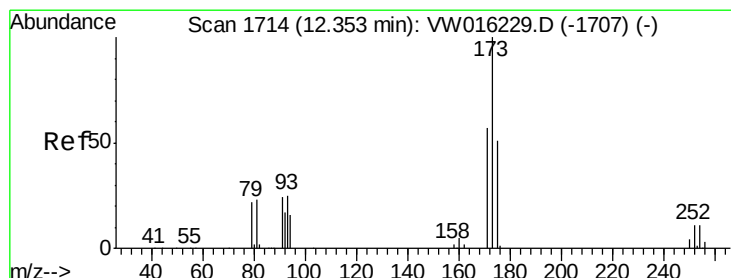
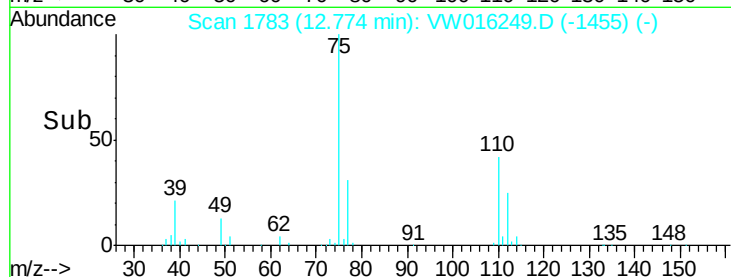
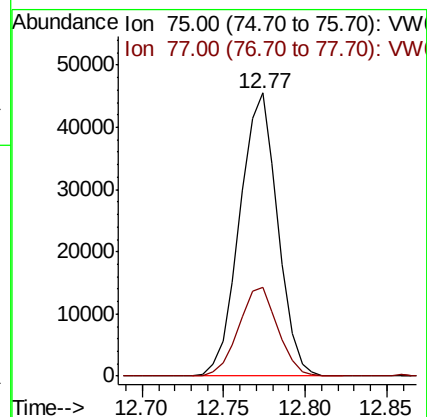
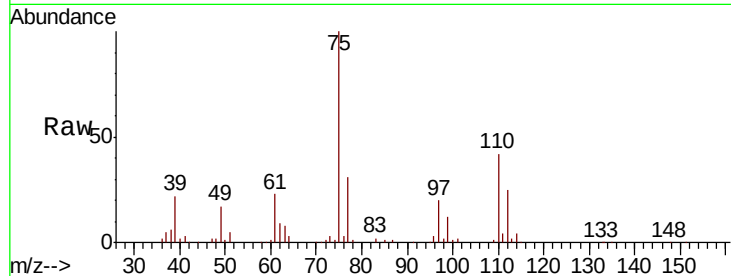
ClientSampleId :

Tot Ion: 75 Resp: 73796

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#62

Bromoform

Concen: 22.112 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

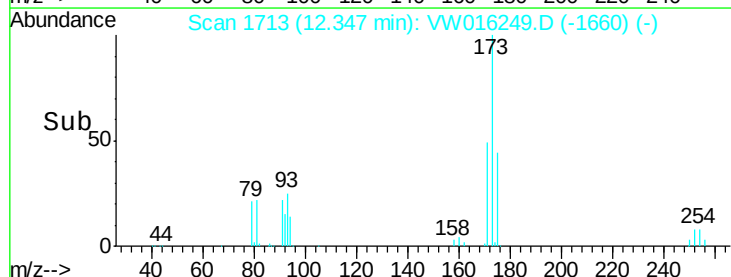
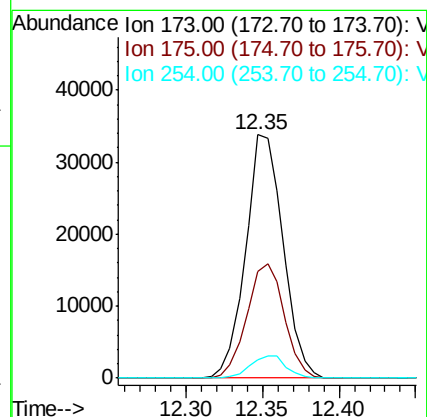
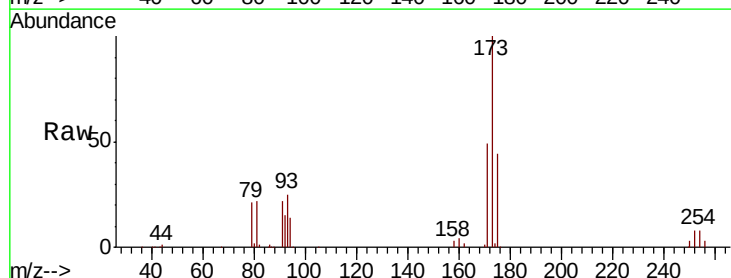
Tgt Ion: 173 Resp: 57321

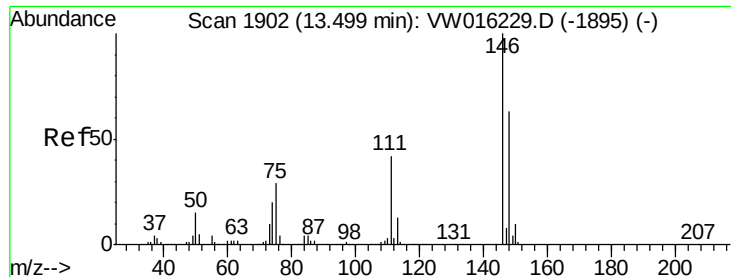
Ion Ratio Lower Upper

173 100

175 47.2 37.8 56.6

254 8.9 6.8 10.2





#63

1,3-Dichlorobenzene

Concen: 24.304 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW016249.D

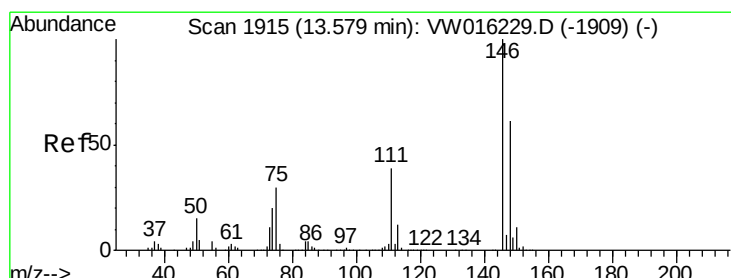
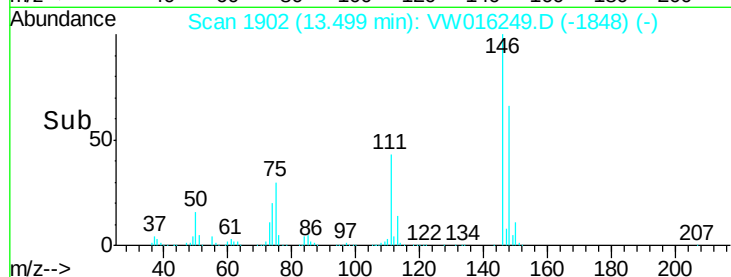
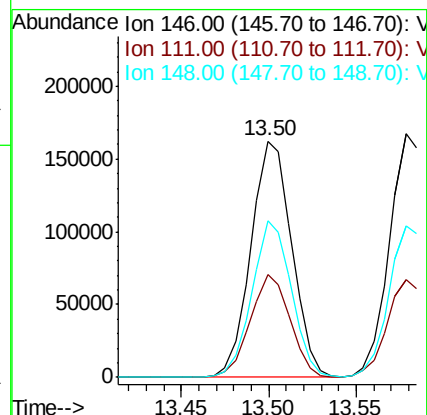
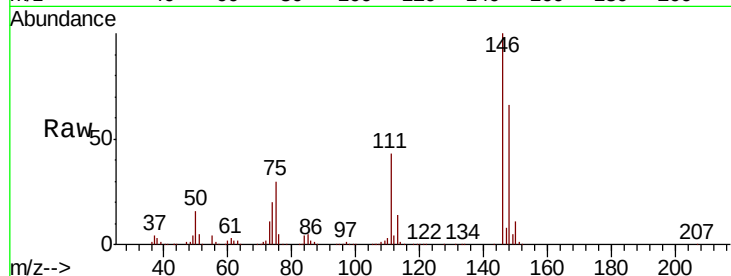
Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampled :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:146 | Resp: | 263155    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 43.4  | 28.9 53.7 |
| 148         | 66.4  | 44.7 82.9 |



#64

1,4-Dichlorobenzene

Concen: 24.310 ug/L

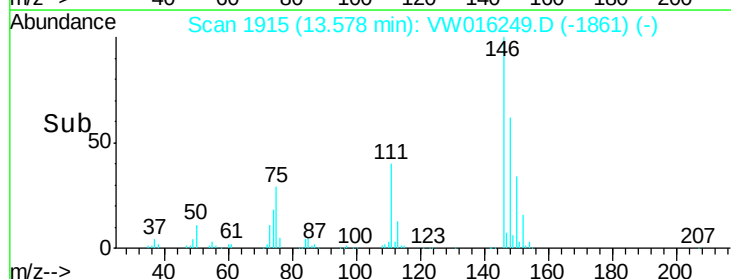
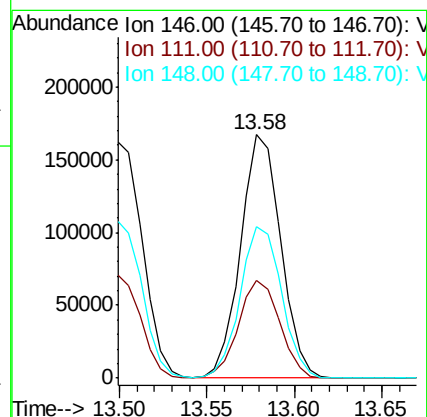
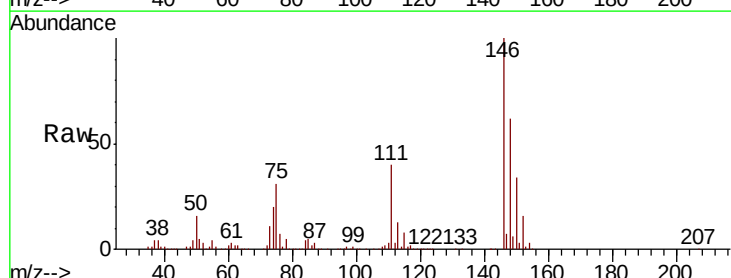
RT: 13.58 min Scan# 1915

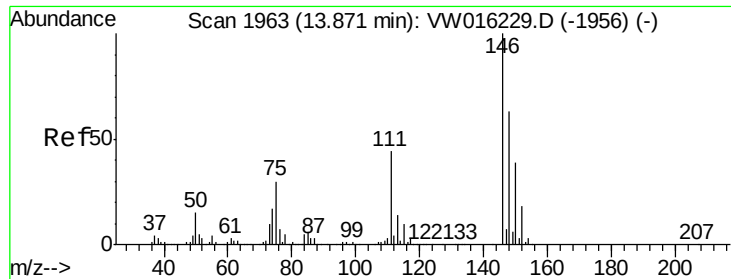
Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 268147    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 40.3  | 28.6 53.2 |
| 148         | 62.3  | 47.7 88.5 |

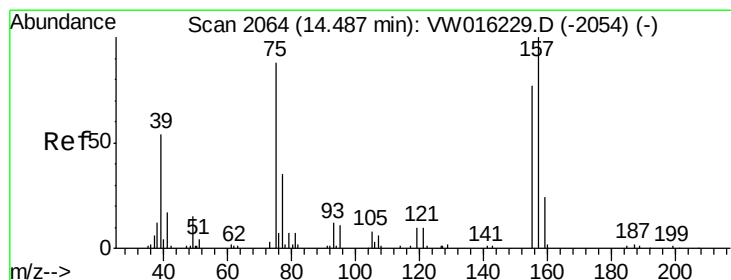
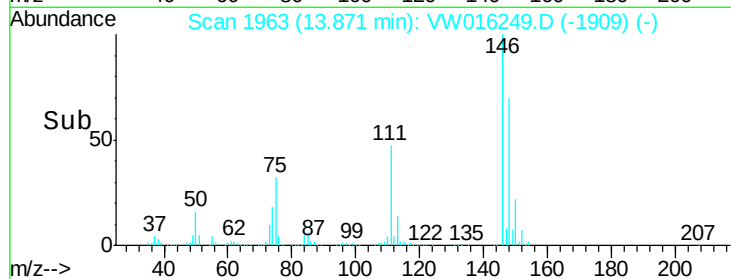
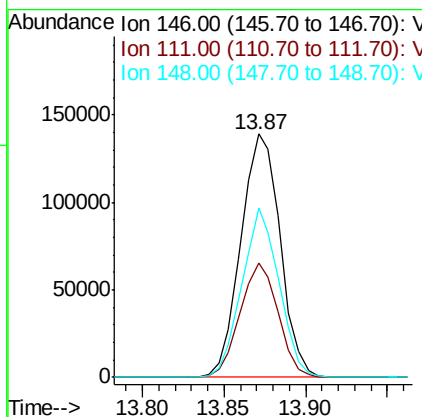
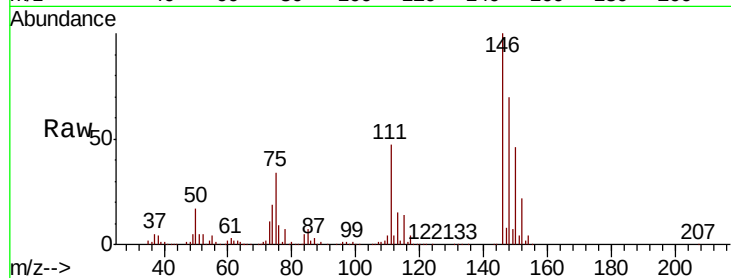




#65  
 1,2-Dichlorobenzene  
 Concen: 23.511 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

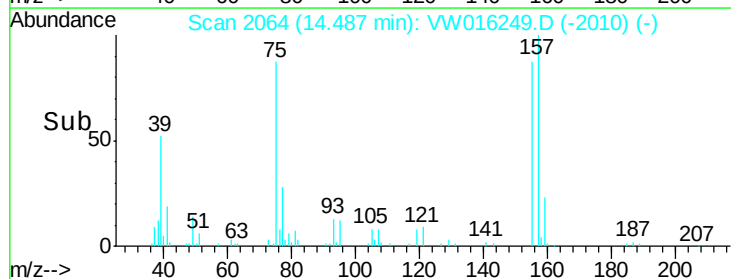
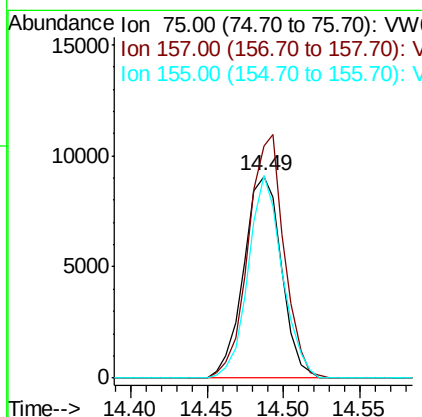
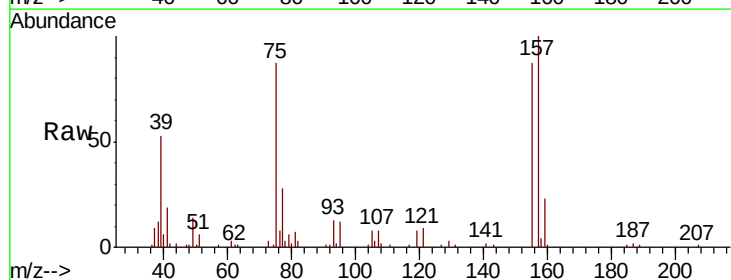
Instrument :  
 MSVOA\_W  
 ClientSampleId :

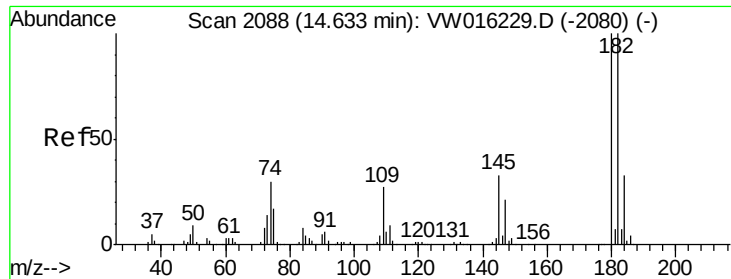
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.2  | 35.3  | 52.9  |
| 148     | 69.8  | 49.0  | 73.4  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 17.799 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 157     | 114.9 | 73.9  | 110.9# |
| 155     | 100.4 | 63.4  | 95.2#  |

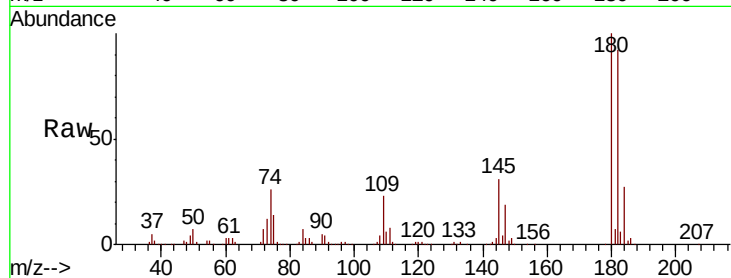




#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.120 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.7  | 76.3  | 114.5 |
| 184     | 29.9  | 25.1  | 37.7  |
| 145     | 32.3  | 26.9  | 40.3  |

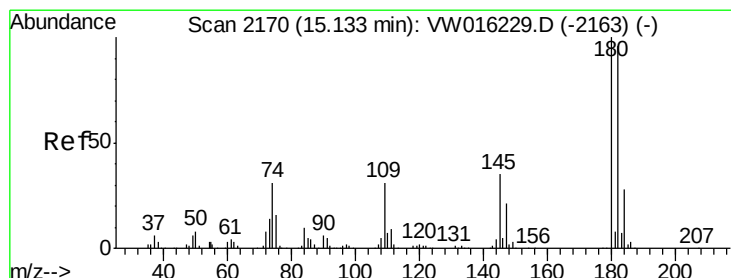
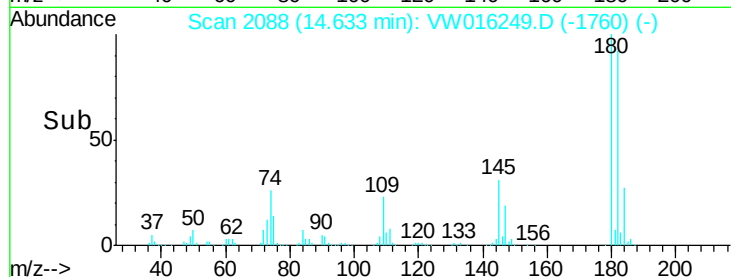
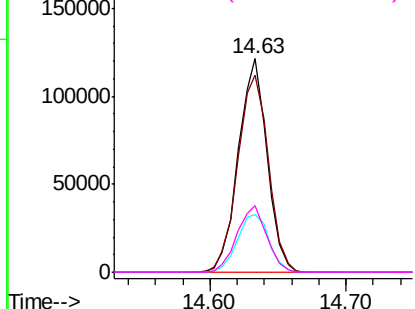


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

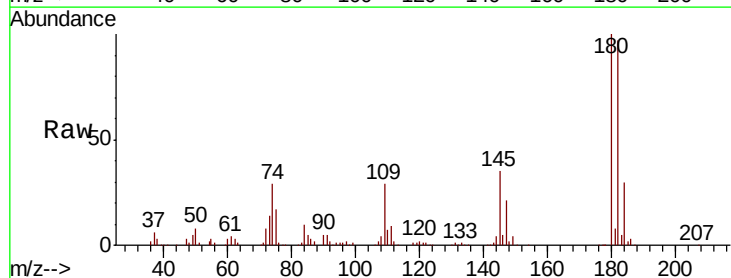
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 25.615 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW016249.D  
 Acq: 19 Aug 2020 10:16

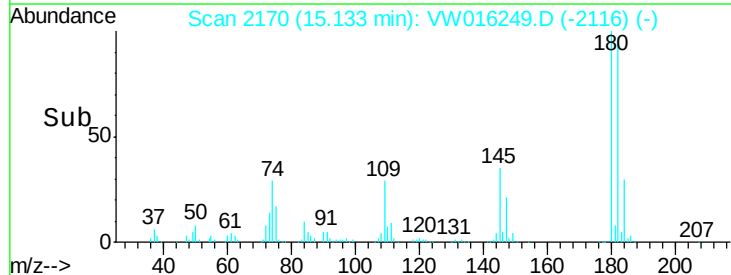
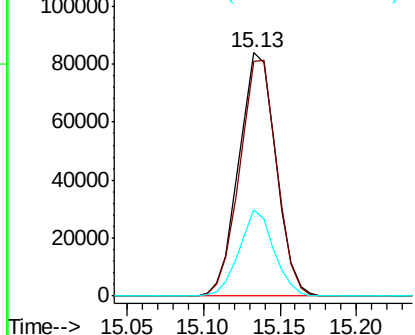
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.5  | 77.8  | 116.8 |
| 145     | 33.1  | 26.5  | 39.7  |

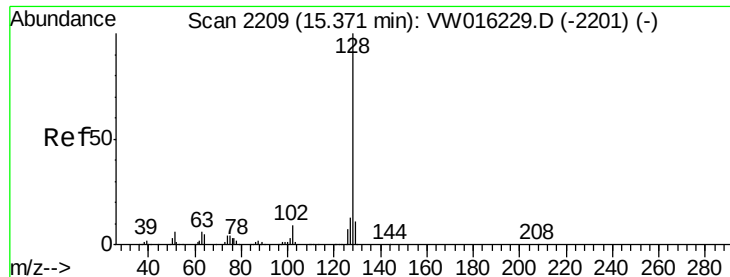


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 23.221 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

Instrument :

MSVOA\_W

ClientSampleId :

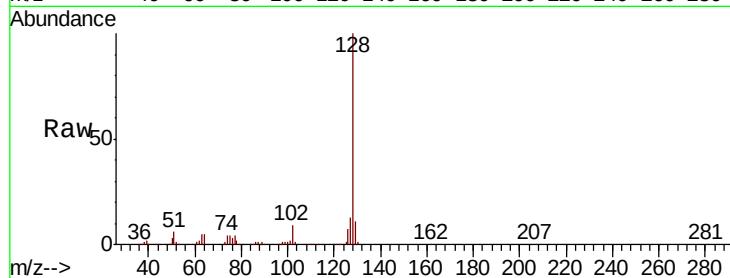
Tot Ion:128 Resp: 271416

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

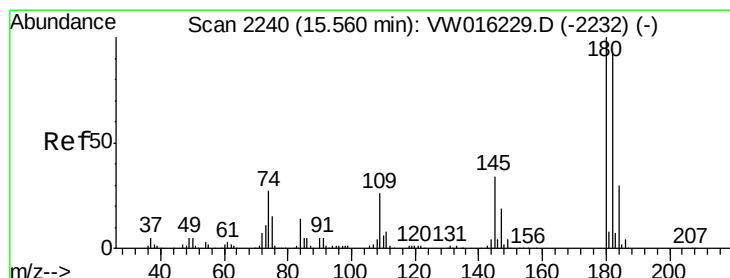
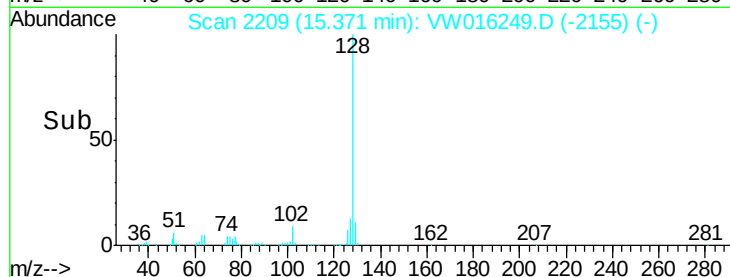
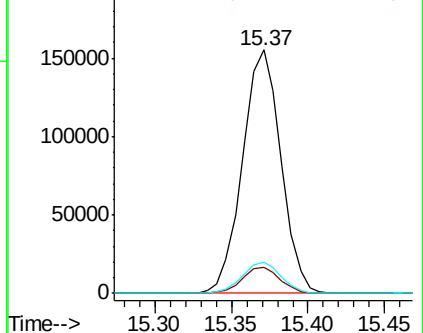
127 12.8 10.3 15.5



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: 24.799 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016249.D

Acq: 19 Aug 2020 10:16

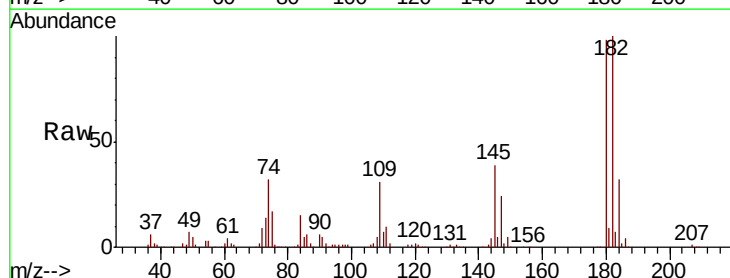
Tgt Ion:180 Resp: 124759

Ion Ratio Lower Upper

180 100

182 101.0 76.0 114.0

145 37.3 29.9 44.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

