

Data File : VV014521.D  
Acq On : 06 Feb 2020 16:19  
Operator : SY/MD  
Sample : VSTDCCC050EC  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050207

Quant Time: Feb 07 01:41:21 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM020620W.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 07 01:37:17 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 356882   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 329492   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 167034   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 111920   | 57.83    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 115.66%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 78628    | 58.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 117.90%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 162418   | 55.26    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 110.52%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 175951   | 117.78   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 117.78%  |
| 24) Chloroform-d               | 4.39    | 84    | 261862   | 59.37    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.74%  |
| 26) 1,2-Dichloroethane-d4      | 5.07    | 65    | 160264   | 59.53    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 119.06%  |
| 32) Benzene-d6                 | 5.09    | 84    | 547626   | 60.02    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 120.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 167867   | 60.00    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 120.00%  |
| 41) Toluene-d8                 | 7.35    | 98    | 510758   | 60.80    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 121.60%# |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 88278    | 58.85    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 117.70%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 141594   | 118.96   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 118.96%  |
| 56) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 215216   | 59.24    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 118.48%  |
| 66) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 189669   | 59.21    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 118.42%  |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 140823 | 49.259 ug/L | 100    |
| 3) Chloromethane               | 1.26 | 50  | 138122 | 47.716 ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 106217 | 47.908 ug/L | 99     |
| 6) Bromomethane                | 1.53 | 94  | 47145  | 46.244 ug/L | 97     |
| 8) Chloroethane                | 1.60 | 64  | 51762  | 46.985 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 146119 | 48.925 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 68815  | 47.985 ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 64822  | 47.258 ug/L | 99     |
| 13) Acetone                    | 2.18 | 43  | 106065 | 84.795 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 317617 | 47.691 ug/L | 99     |
| 15) Methyl Acetate             | 2.45 | 43  | 111684 | 46.435 ug/L | 99     |
| 16) Methylene chloride         | 2.54 | 84  | 123975 | 47.591 ug/L | 97     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 116890 | 48.369 ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 360323 | 47.084 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 203831 | 47.168 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 130209 | 47.879 ug/L | 99     |
| 22) 2-Butanone                 | 4.00 | 43  | 164273 | 88.797 ug/L | 98     |

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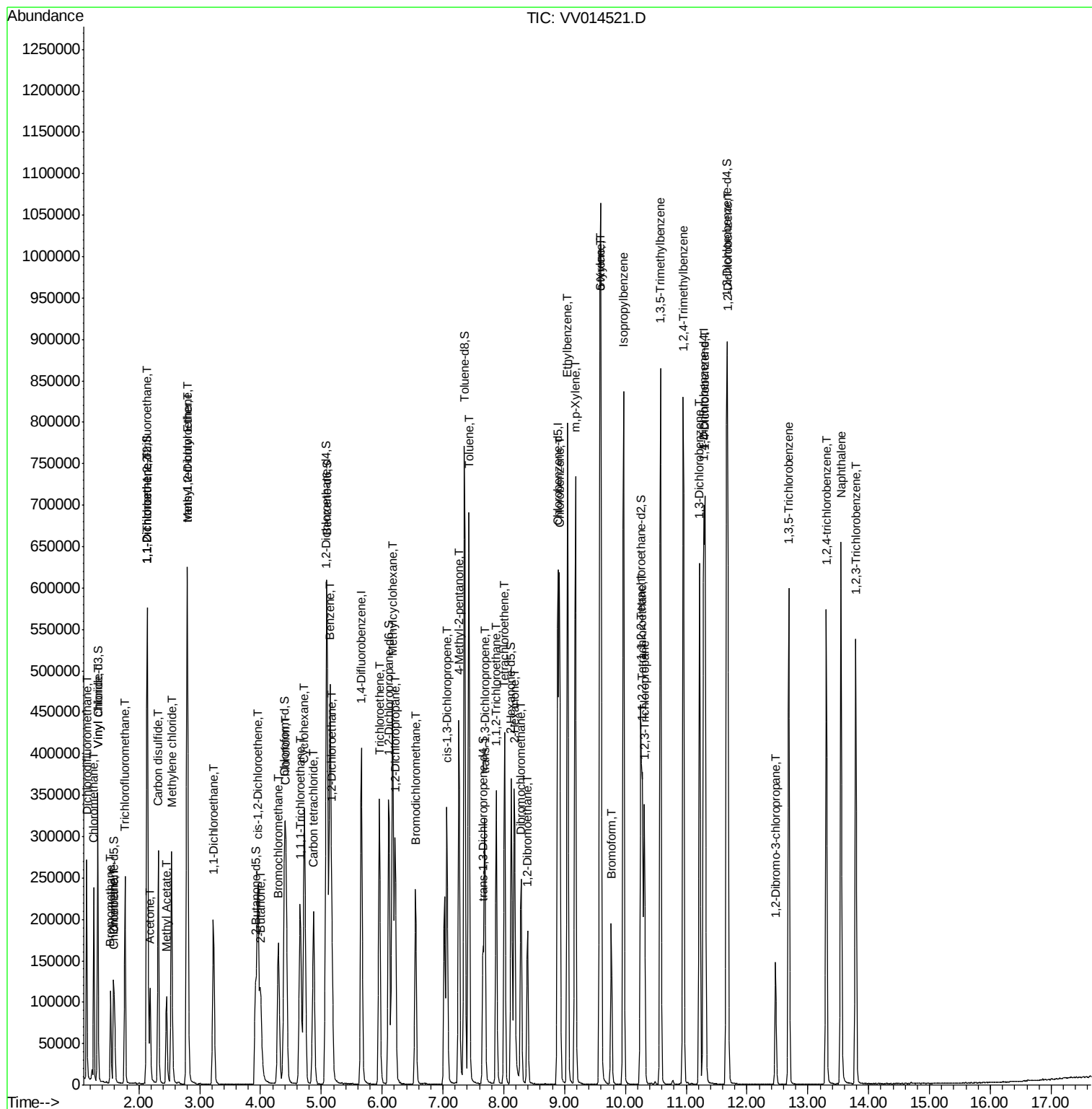
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.29  | 128  | 62028    | 48.168 | ug/L  | 98       |
| 25) Chloroform                 | 4.42  | 83   | 210728   | 47.957 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.17  | 62   | 154641   | 47.232 | ug/L  | 99       |
| 29) Cyclohexane                | 4.72  | 56   | 193953   | 47.876 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.65  | 97   | 180697   | 48.052 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 157724   | 47.543 | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 469041   | 48.420 | ug/L  | 100      |
| 34) Trichloroethene            | 5.95  | 95   | 123402   | 48.060 | ug/L  | 100      |
| 35) Methylcyclohexane          | 6.17  | 83   | 205057   | 48.870 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.21  | 63   | 118639   | 48.083 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.55  | 83   | 157995   | 47.714 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.06  | 75   | 197527   | 47.991 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.26  | 43   | 291385   | 91.386 | ug/L  | 99       |
| 42) Toluene                    | 7.42  | 91   | 501675   | 48.303 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 179651   | 48.680 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.87  | 97   | 112137   | 47.372 | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.01  | 164  | 94706    | 48.349 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.17  | 43   | 223490   | 91.050 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.28  | 129  | 128039   | 47.910 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 121630   | 47.442 | ug/L  | 98       |
| 51) Chlorobenzene              | 8.92  | 112  | 322480   | 47.534 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 560587   | 48.130 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 214122   | 47.726 | ug/L  | 100      |
| 54) o-Xylene                   | 9.58  | 106  | 207448   | 48.309 | ug/L  | 98       |
| 55) Styrene                    | 9.60  | 104  | 358292   | 48.819 | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 176834   | 47.664 | ug/L  | 99       |
| 59) Bromoform                  | 9.77  | 173  | 85454    | 45.868 | ug/L  | 98       |
| 60) Isopropylbenzene           | 9.97  | 105  | 547205   | 48.444 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane     | 10.31 | 75   | 137257   | 46.399 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 10.58 | 105  | 467588   | 48.354 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene     | 10.95 | 105  | 463021   | 48.569 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.22 | 146  | 254746   | 47.812 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.31 | 146  | 258642   | 47.154 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 11.68 | 146  | 245763   | 47.574 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 37239    | 44.952 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 182425   | 48.599 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.30 | 180  | 168038   | 48.759 | ug/L  | 100      |
| 71) Naphthalene                | 13.54 | 128  | 520954   | 46.019 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 157655   | 47.083 | ug/L  | 98       |

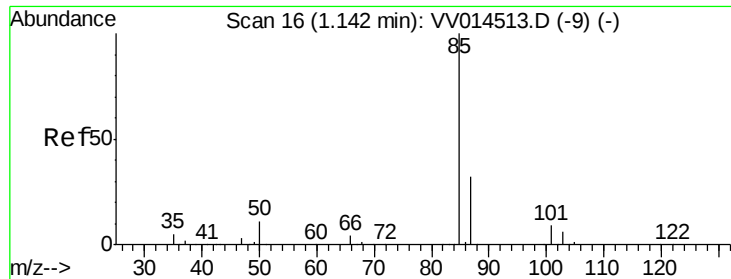
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.259 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

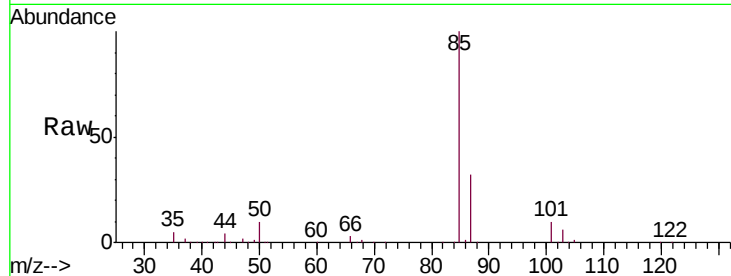
VSTD050207

Tgt Ion: 85 Resp: 140823

Ion Ratio Lower Upper

85 100

87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV014521.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV014521.D (-1) (-)

1.14

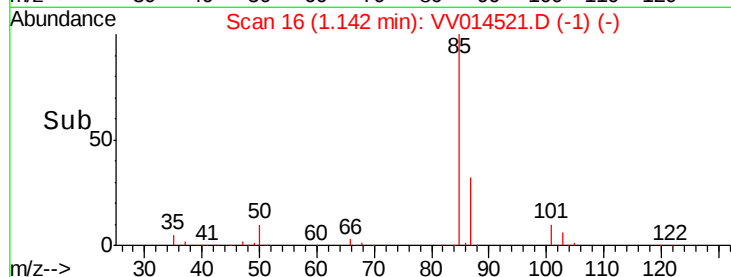
150000

100000

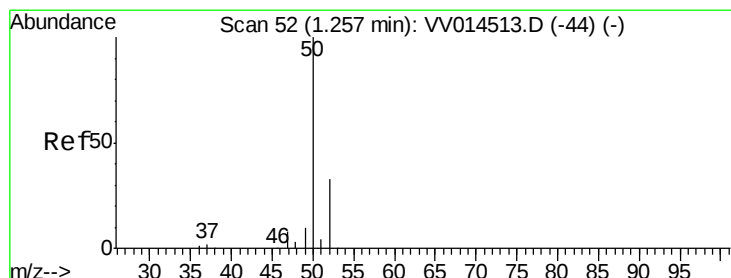
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 47.716 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014521.D

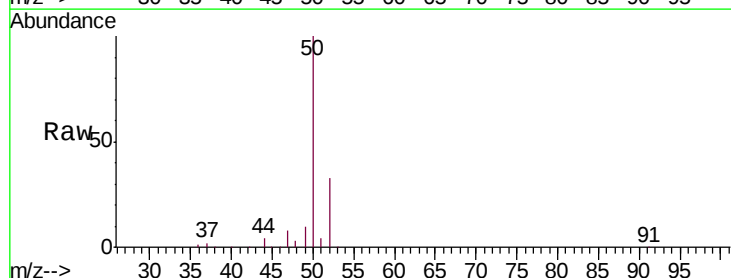
Acq: 06 Feb 2020 16:19

Tgt Ion: 50 Resp: 138122

Ion Ratio Lower Upper

50 100

52 33.1 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014521.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV014521.D (-1) (-)

1.26

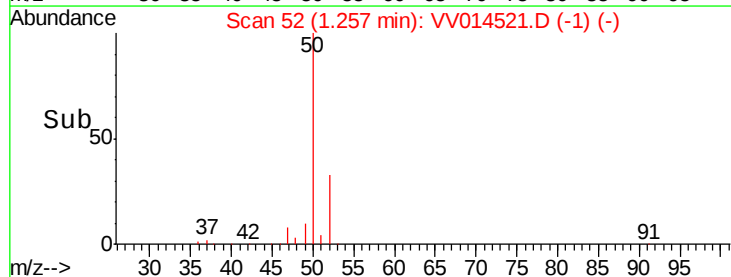
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100000

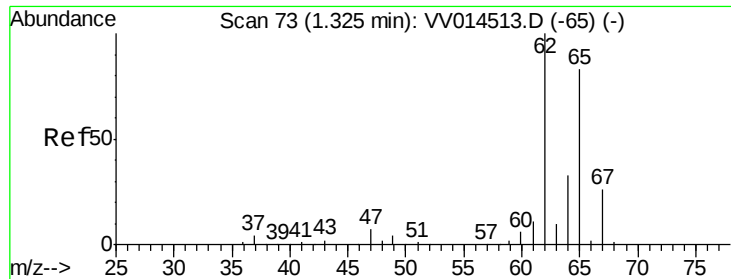
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 47.908 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

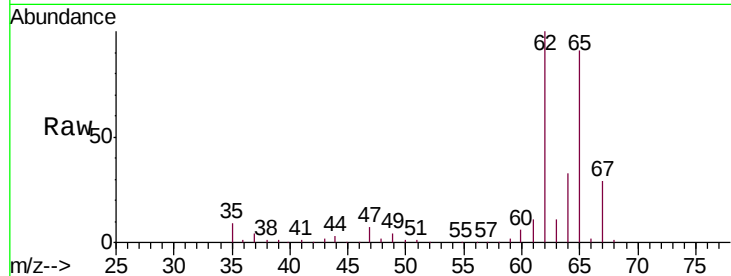
VSTD050207

Tgt Ion: 62 Resp: 106217

Ion Ratio Lower Upper

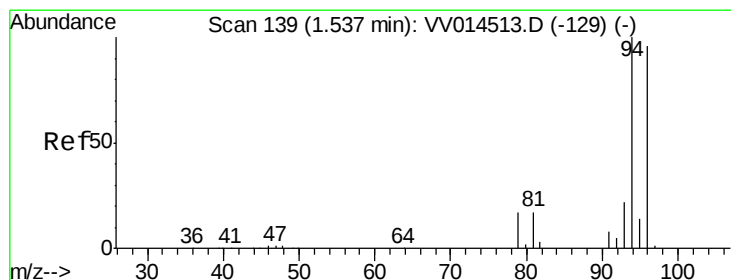
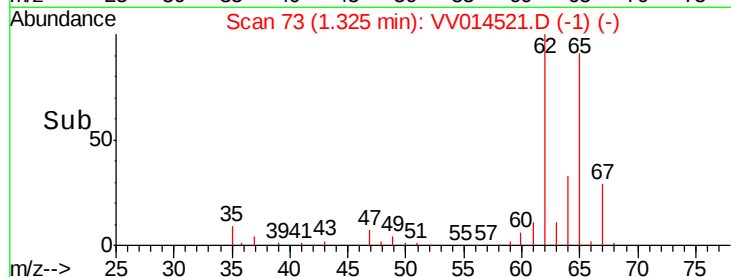
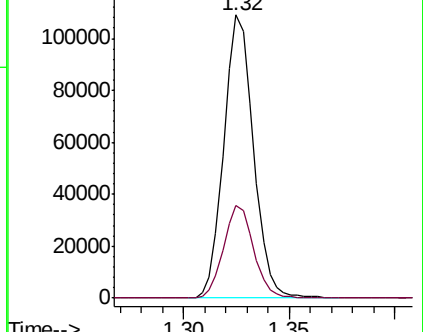
62 100

64 32.6 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 46.244 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014521.D

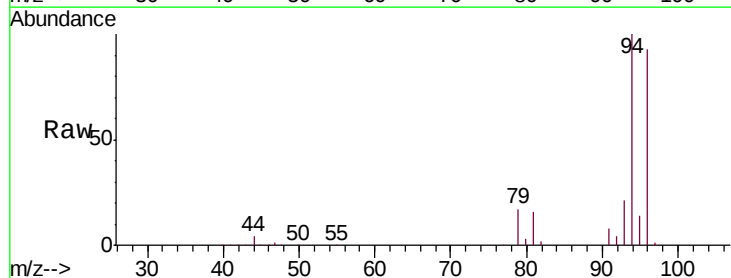
Acq: 06 Feb 2020 16:19

Tgt Ion: 94 Resp: 47145

Ion Ratio Lower Upper

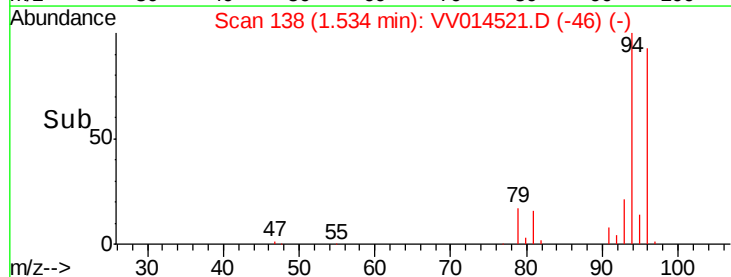
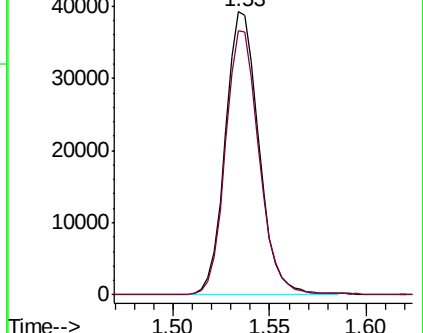
94 100

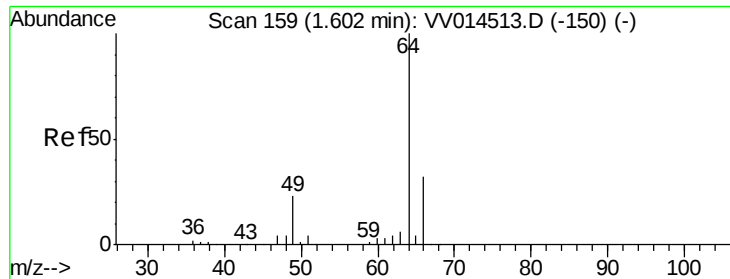
96 93.5 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 46.985 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

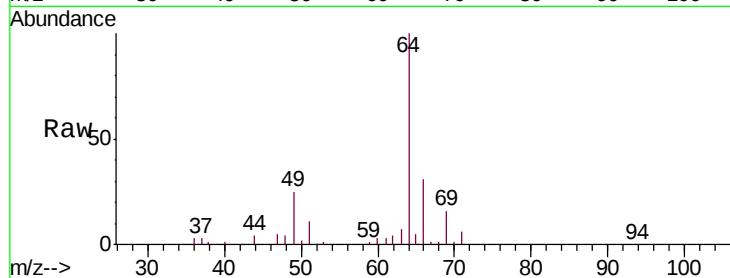
VSTD050207

Tgt Ion: 64 Resp: 51762

Ion Ratio Lower Upper

64 100

66 31.4 22.4 41.6

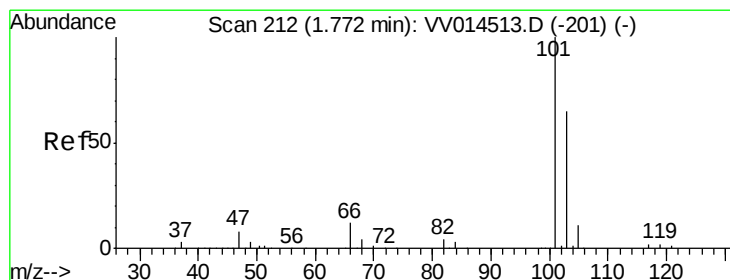
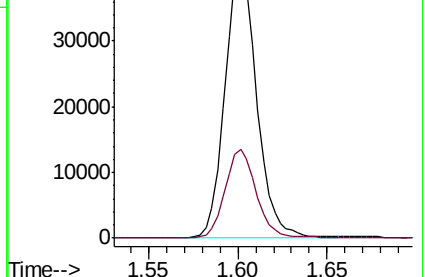
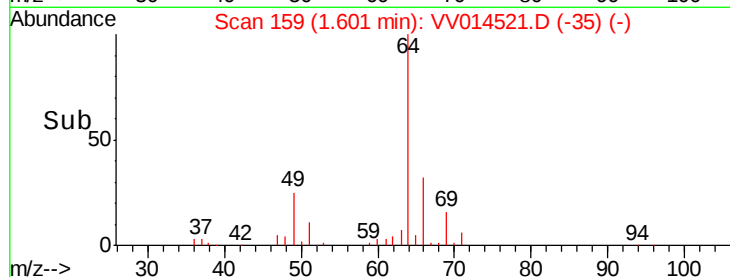


Abundance Ion 64.00 (63.70 to 64.70): VV014513.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014513.D (-150) (-)

1.60

Time-->



#9

Trichlorofluoromethane

Concen: 48.925 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV014521.D

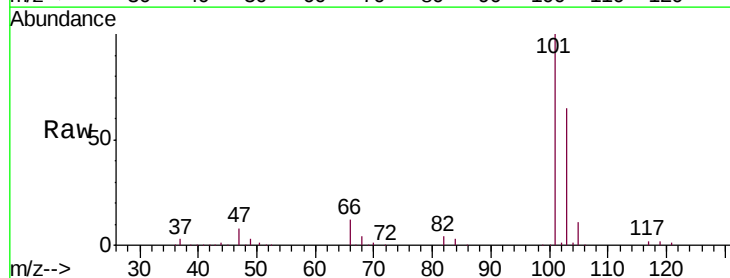
Acq: 06 Feb 2020 16:19

Tgt Ion: 101 Resp: 146119

Ion Ratio Lower Upper

101 100

103 64.8 51.8 77.8

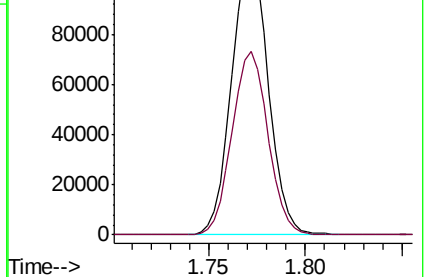
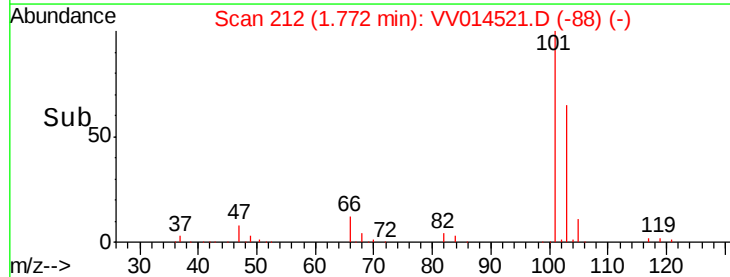


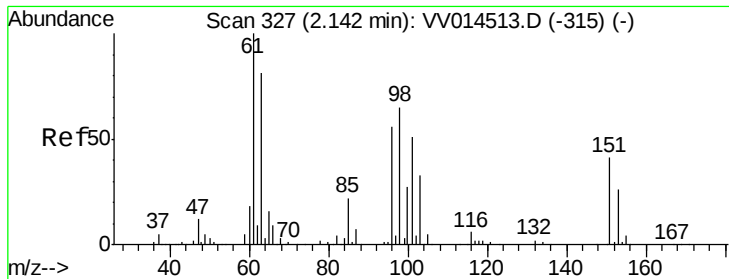
Abundance Ion 101.00 (100.70 to 101.70): VV014513.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014513.D (-201) (-)

1.77

Time-->





#10

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

Concen: 47.985 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014521.D

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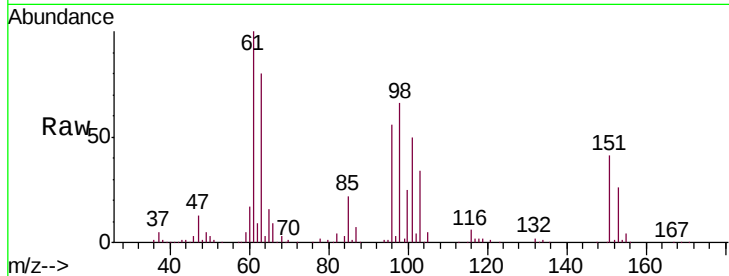
Tgt Ion: 101 Resp: 68815

Ion Ratio Lower Upper

101 100

85 44.2 35.0 52.6

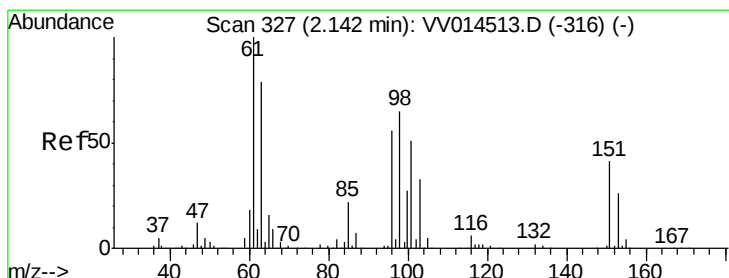
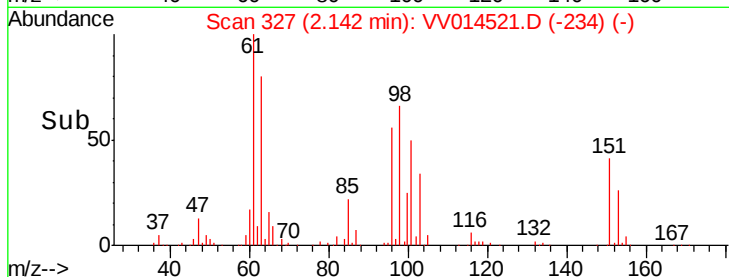
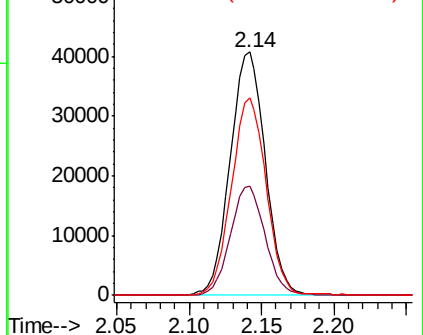
151 80.3 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): VV014521.D (-234) (-)

Ion 85.00 (84.70 to 85.70): VV014521.D (-234) (-)

Ion 151.00 (150.70 to 151.70): VV014521.D (-234) (-)



#12

1,1-Dichloroethene

Concen: 47.258 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

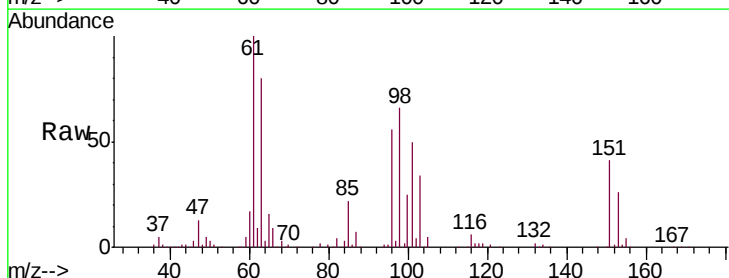
Tgt Ion: 96 Resp: 64822

Ion Ratio Lower Upper

96 100

61 179.2 125.0 232.2

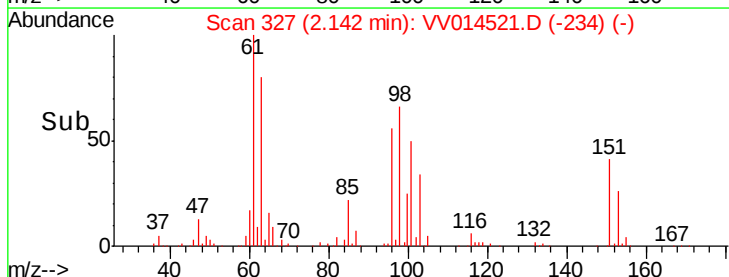
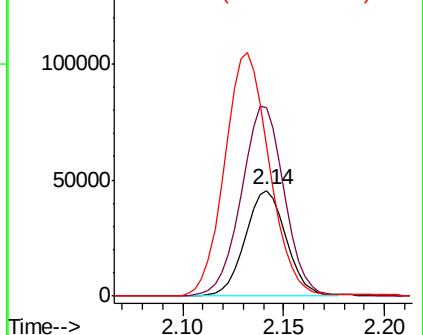
63 142.8 101.6 188.6

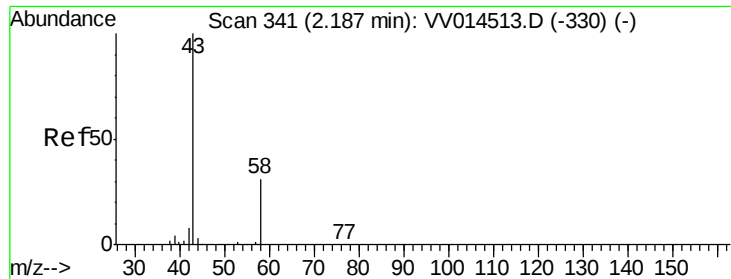


Abundance Ion 96.00 (95.70 to 96.70): VV014521.D (-234) (-)

Ion 61.00 (60.70 to 61.70): VV014521.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV014521.D (-234) (-)





#13

Acetone

Concen: 84.795 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

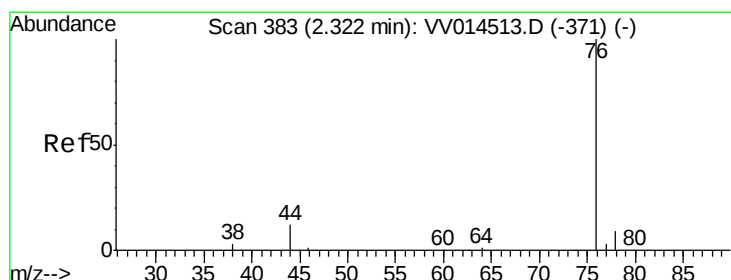
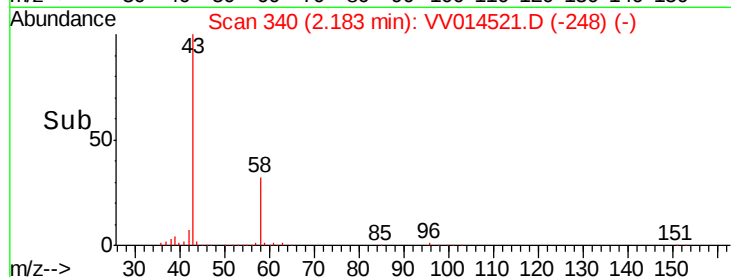
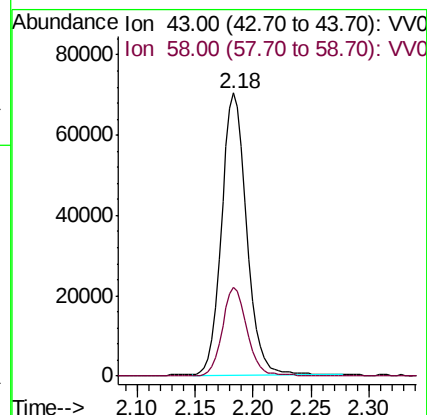
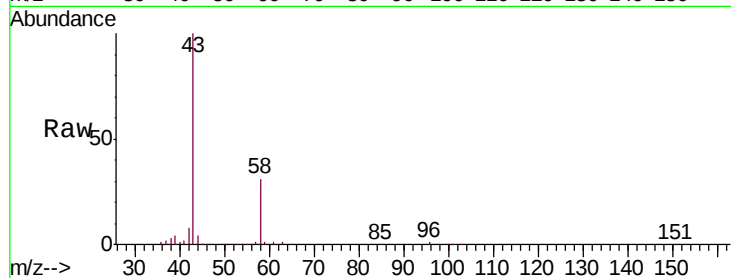
VSTD050207

Tgt Ion: 43 Resp: 106065

Ion Ratio Lower Upper

43 100

58 30.7 0.0 61.8



#14

Carbon disulfide

Concen: 47.691 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014521.D

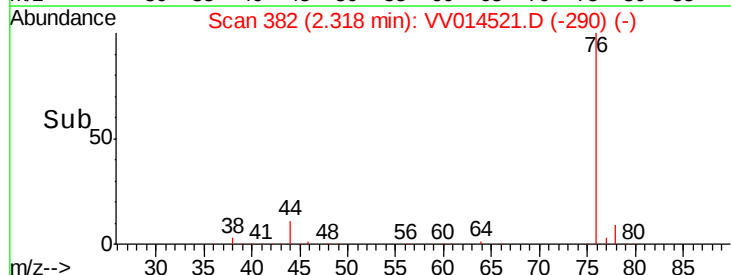
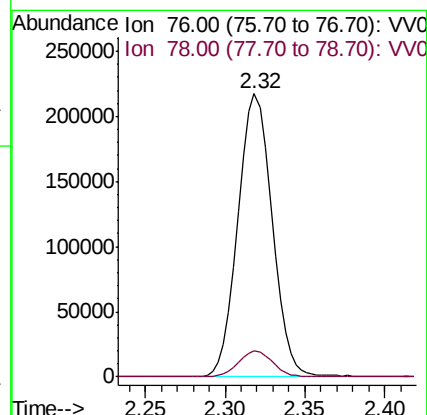
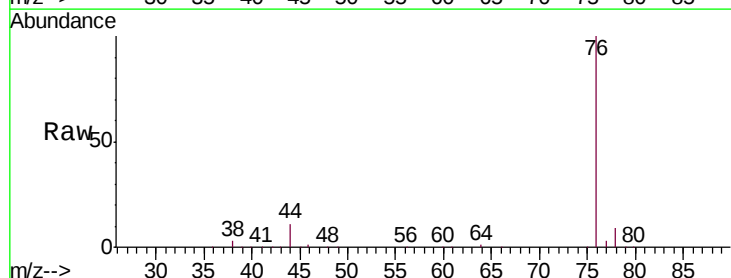
Acq: 06 Feb 2020 16:19

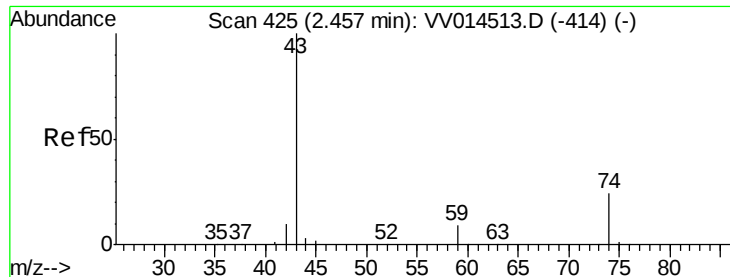
Tgt Ion: 76 Resp: 317617

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2





#15

Methyl Acetate

Concen: 46.435 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

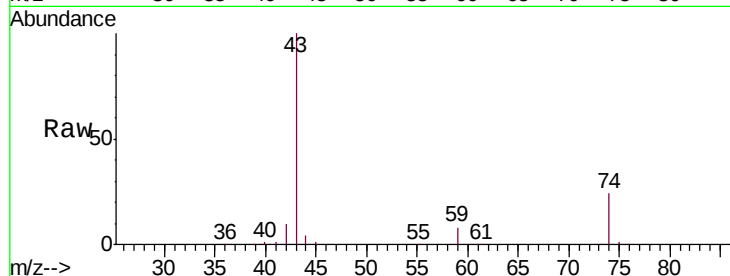
VSTD050207

Tgt Ion: 43 Resp: 111684

Ion Ratio Lower Upper

43 100

74 23.8 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.45

80000

60000

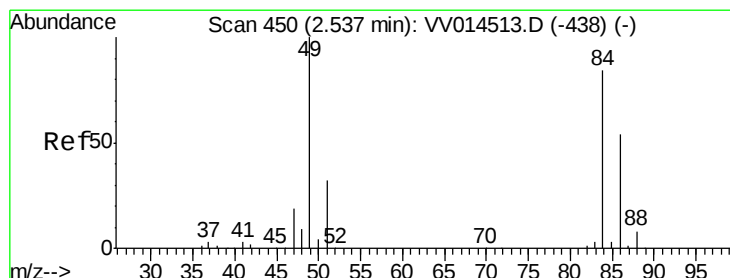
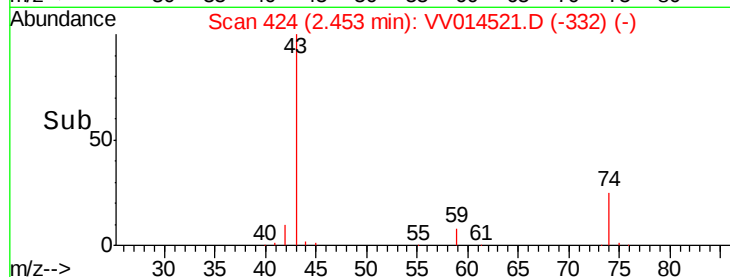
40000

20000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 47.591 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

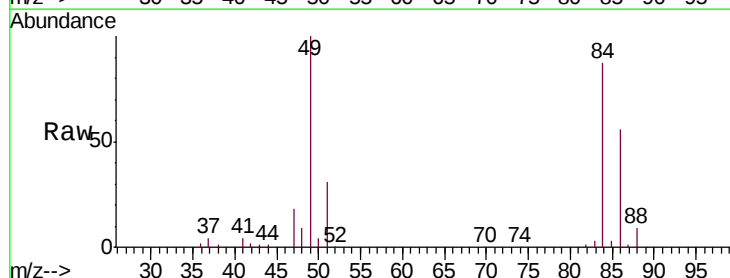
Tgt Ion: 84 Resp: 123975

Ion Ratio Lower Upper

84 100

86 64.6 44.6 82.8

49 114.8 83.2 154.4



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

100000

80000

60000

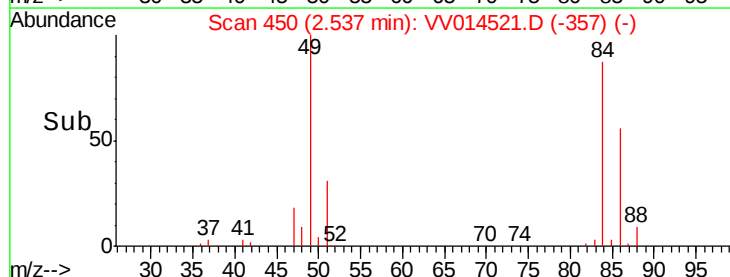
40000

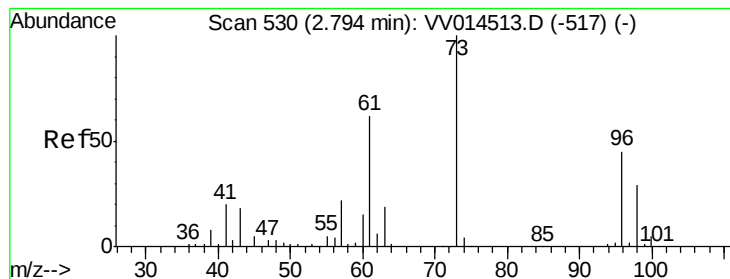
20000

0

Time-->

2.45 2.50 2.55 2.60





#17

trans-1,2-Dichloroethene

Concen: 48.369 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

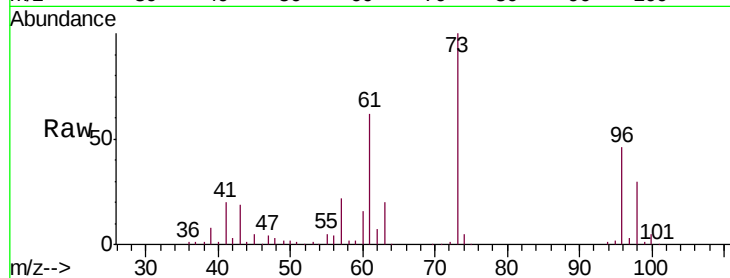
Tgt Ion: 96 Resp: 116890

Ion Ratio Lower Upper

96 100

61 133.2 95.8 178.0

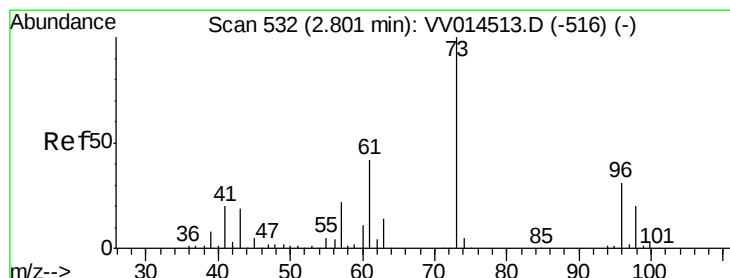
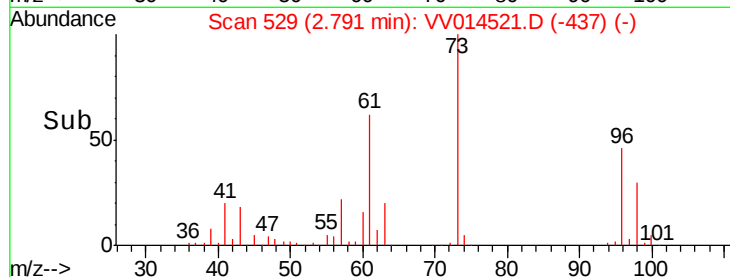
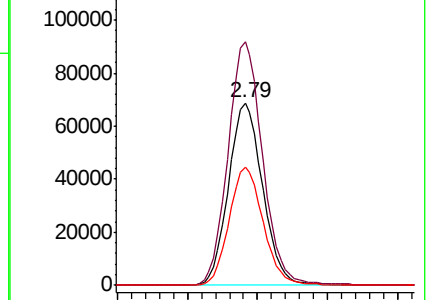
98 64.3 45.1 83.7



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 47.084 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

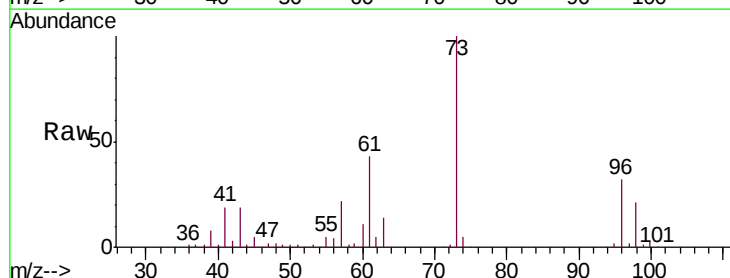
Tgt Ion: 73 Resp: 360323

Ion Ratio Lower Upper

73 100

43 18.6 14.9 22.3

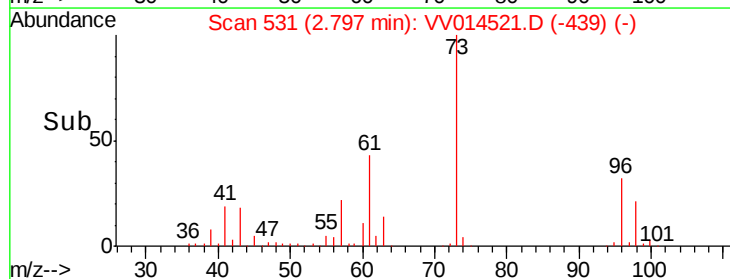
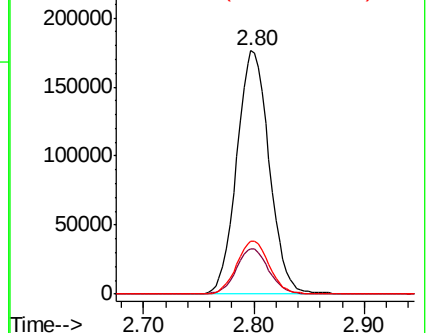
57 21.7 17.5 26.3

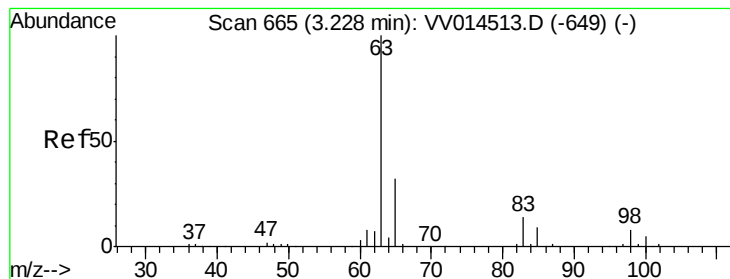


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 47.168 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

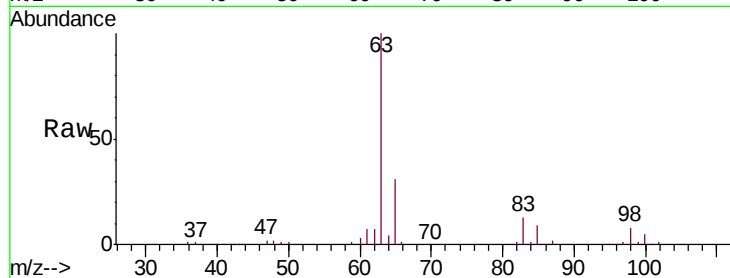
Tgt Ion: 63 Resp: 203831

Ion Ratio Lower Upper

63 100

65 31.2 22.5 41.7

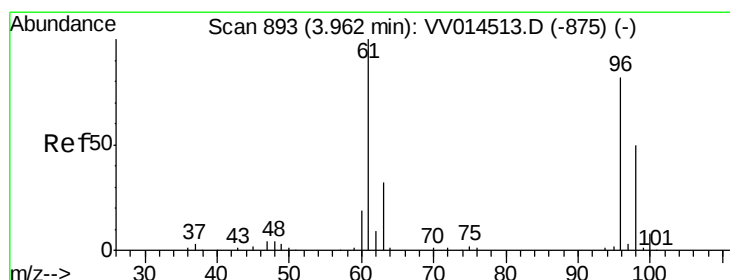
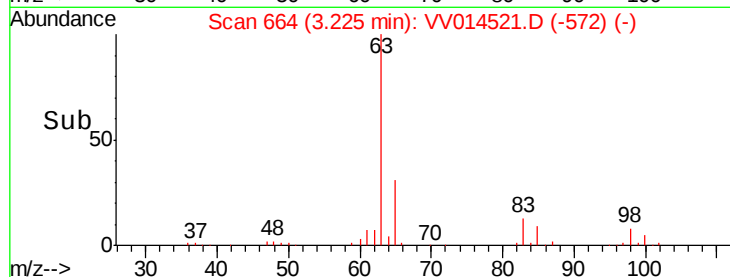
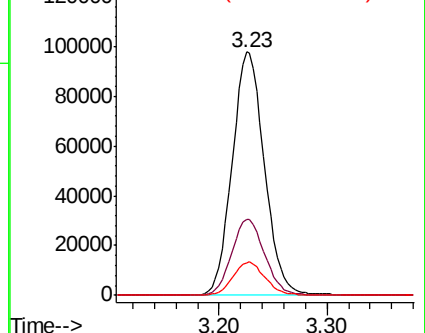
83 13.5 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 47.879 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

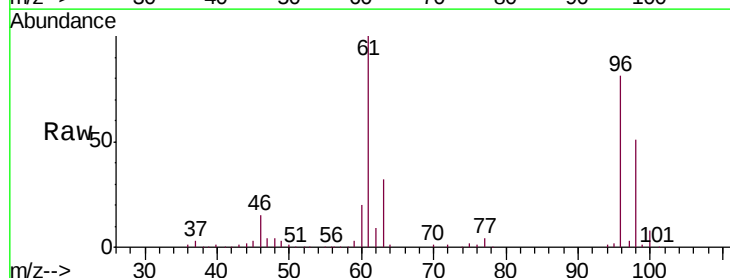
Tgt Ion: 96 Resp: 130209

Ion Ratio Lower Upper

96 100

61 123.1 85.2 158.2

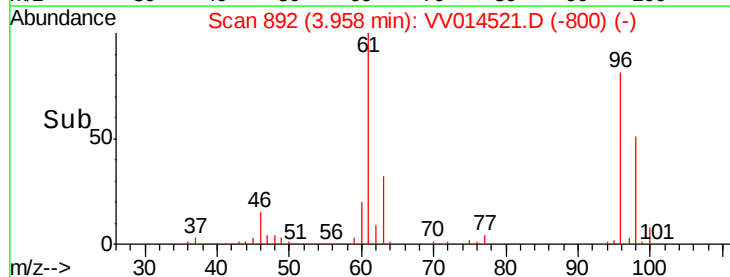
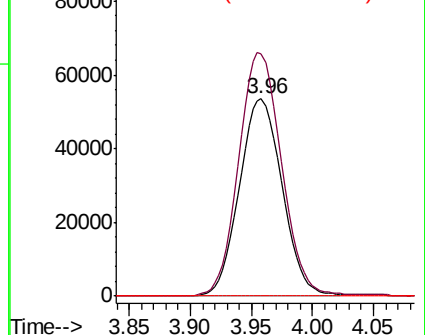
68 0.0 0.0 0.0

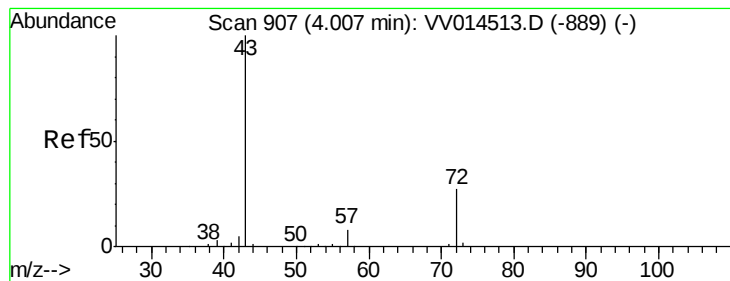


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 88.797 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.01 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

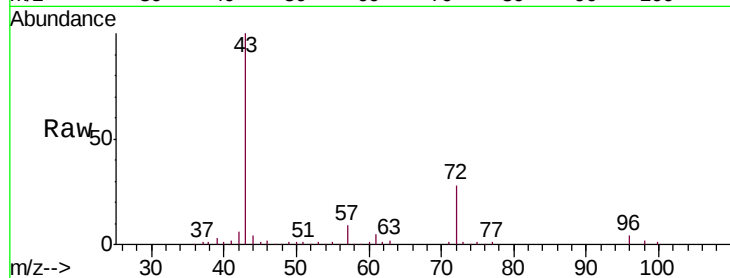
VSTD050207

Tgt Ion: 43 Resp: 164273

Ion Ratio Lower Upper

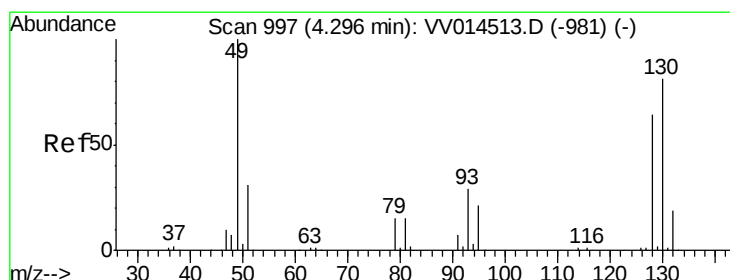
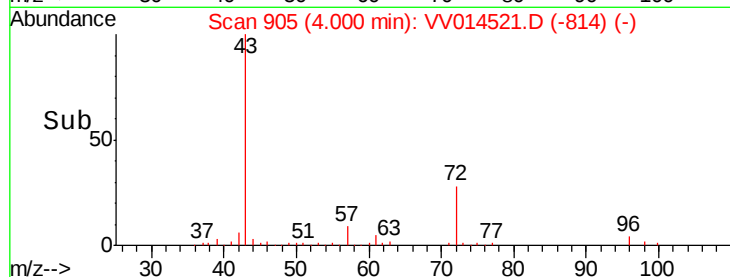
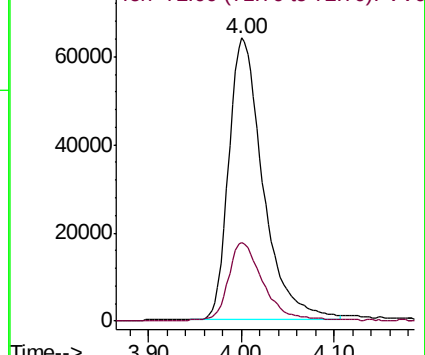
43 100

72 26.6 12.7 38.1



Abundance Ion 43.00 (42.70 to 43.70): VV014521.D (-905) (-)

Ion 72.00 (71.70 to 72.70): VV014521.D (-905) (-)



#23

Bromochloromethane

Concen: 48.168 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Tgt Ion: 128 Resp: 62028

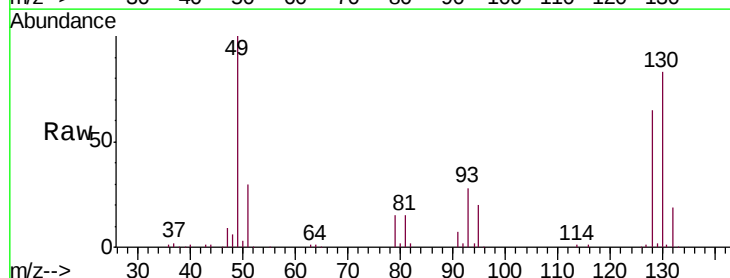
Ion Ratio Lower Upper

128 100

49 154.5 110.1 204.5

130 127.9 88.5 164.4

51 46.8 39.4 59.0

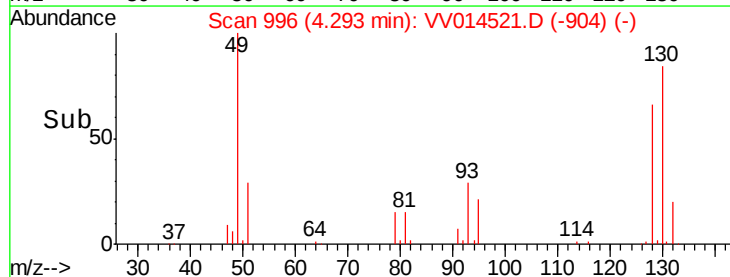
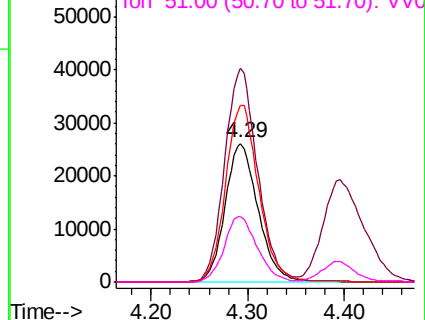


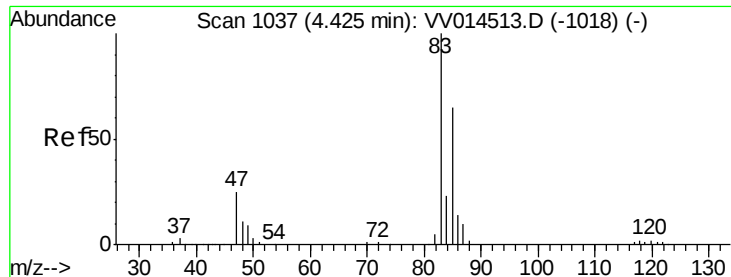
Abundance Ion 128.00 (127.70 to 128.70): VV014521.D (-906) (-)

Ion 49.00 (48.70 to 49.70): VV014521.D (-906) (-)

Ion 130.00 (129.70 to 130.70): VV014521.D (-906) (-)

Ion 51.00 (50.70 to 51.70): VV014521.D (-906) (-)

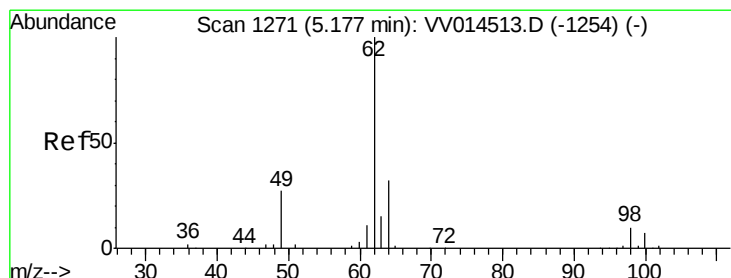
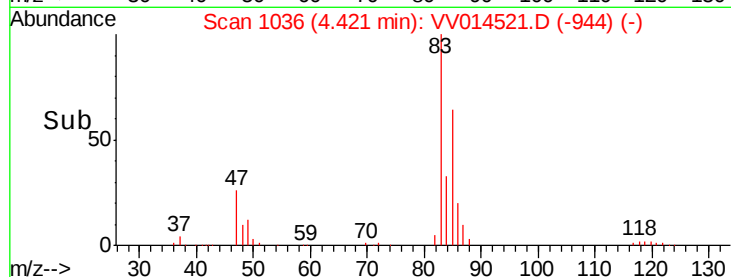
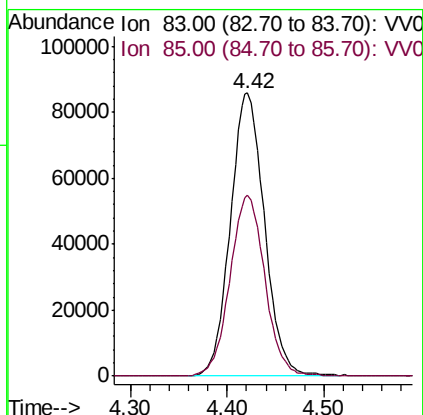
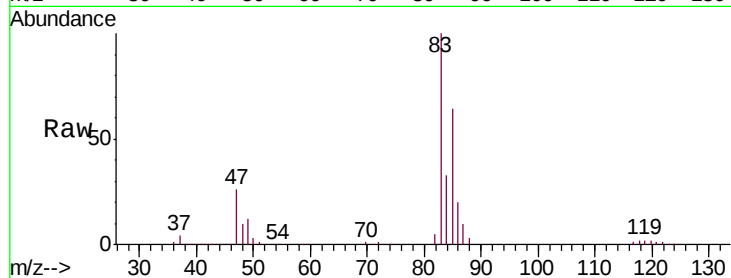




#25  
Chloroform  
Concen: 47.957 ug/L  
RT: 4.42 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

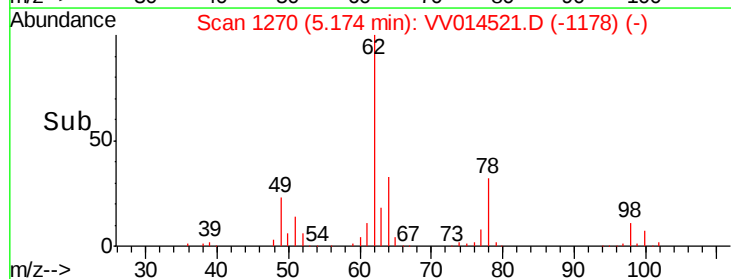
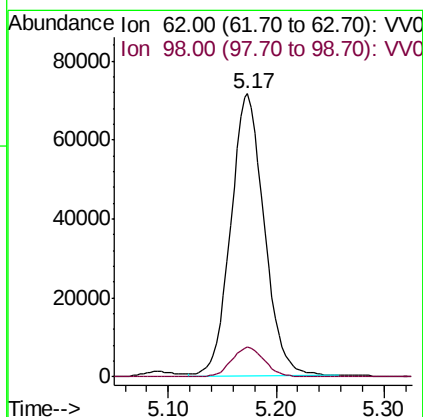
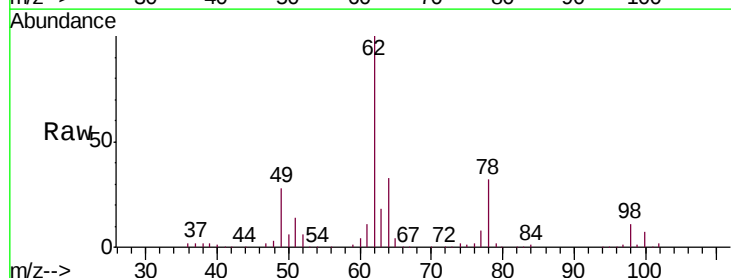
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050207

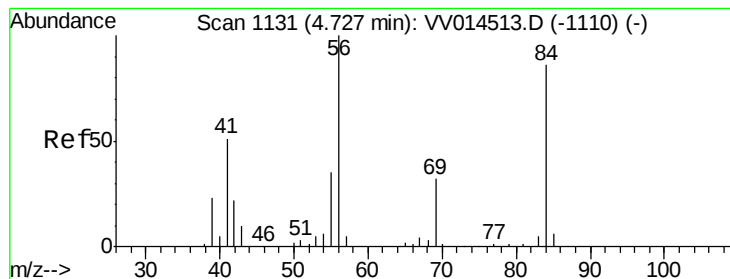
Tgt Ion: 83 Resp: 210728  
Ion Ratio Lower Upper  
83 100  
85 63.8 45.8 85.0



#27  
1,2-Dichloroethane  
Concen: 47.232 ug/L  
RT: 5.17 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Tgt Ion: 62 Resp: 154641  
Ion Ratio Lower Upper  
62 100  
98 10.7 8.2 12.4





#29

Cyclohexane

Concen: 47.876 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

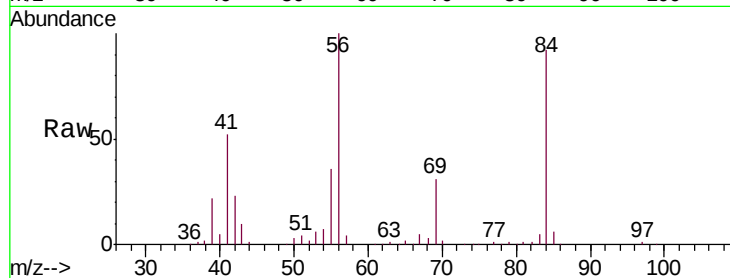
Tgt Ion: 56 Resp: 193953

Ion Ratio Lower Upper

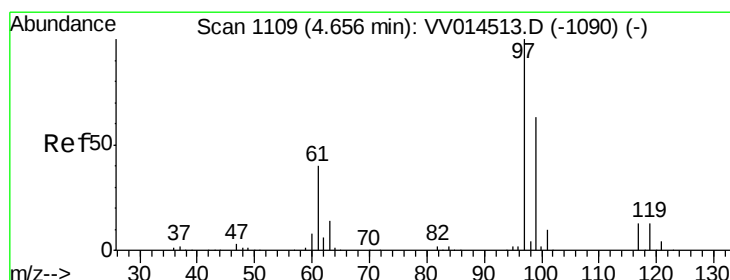
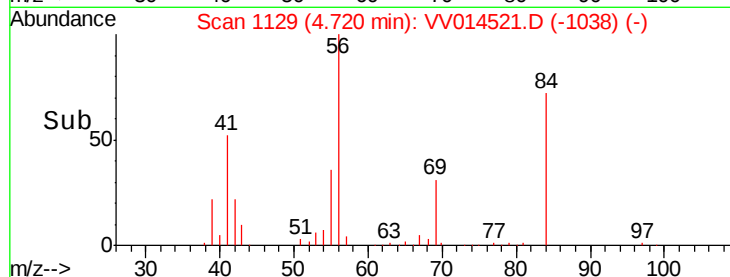
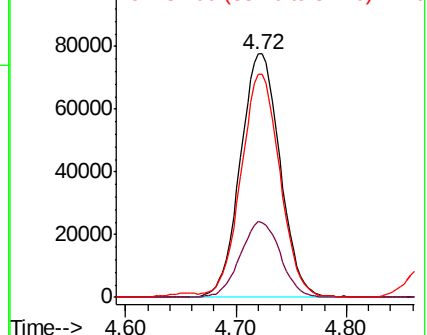
56 100

69 31.5 25.2 37.8

84 90.3 69.8 104.8



Abundance Ion 56.00 (55.70 to 56.70): VV0  
Ion 69.00 (68.70 to 69.70): VV0  
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 48.052 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

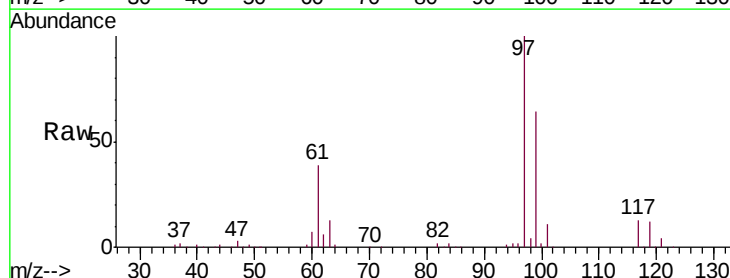
Tgt Ion: 97 Resp: 180697

Ion Ratio Lower Upper

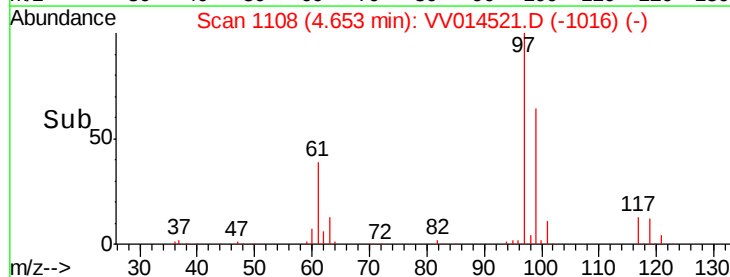
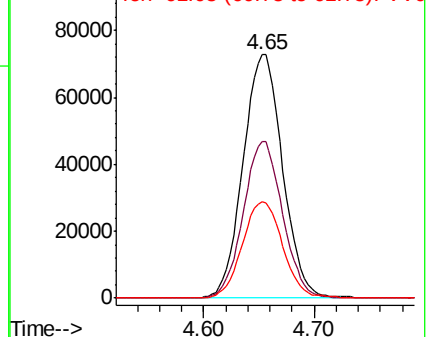
97 100

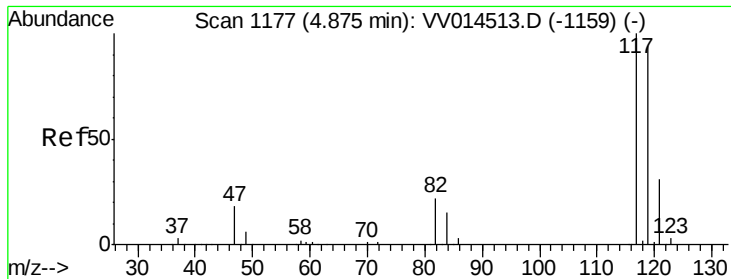
99 63.7 50.6 76.0

61 40.7 33.0 49.4



Abundance Ion 97.00 (96.70 to 97.70): VV0  
Ion 99.00 (98.70 to 99.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0



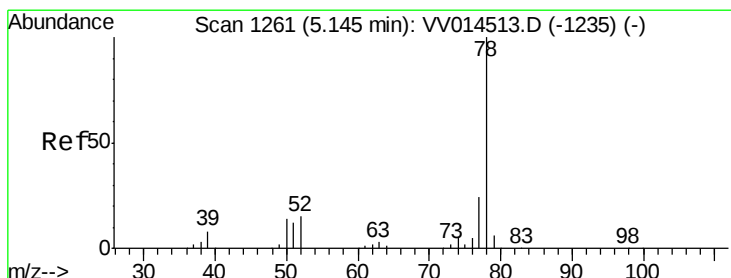
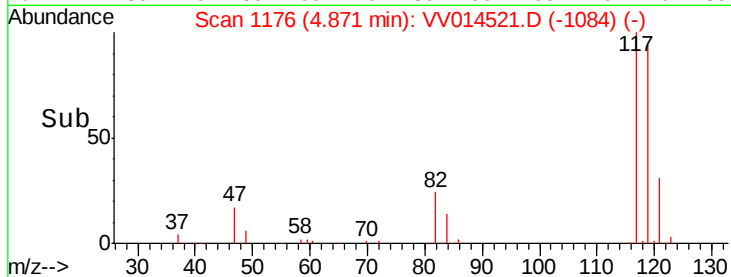
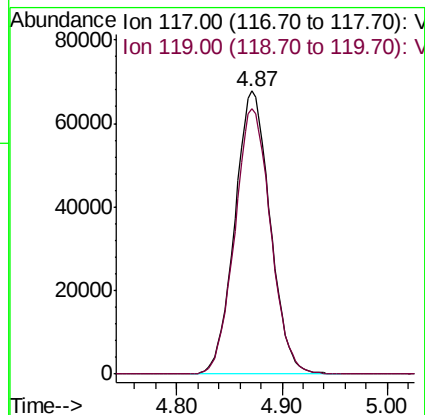
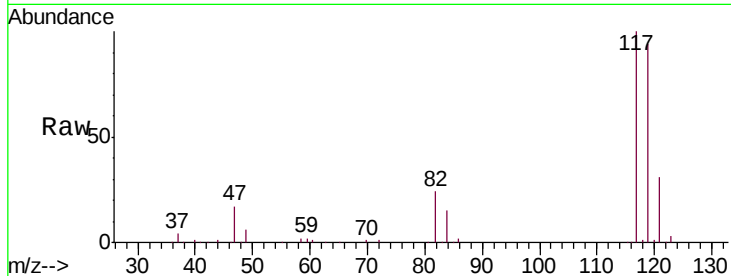


#31

Carbon tetrachloride  
 Concen: 47.543 ug/L  
 RT: 4.87 min Scan# 1176  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050207

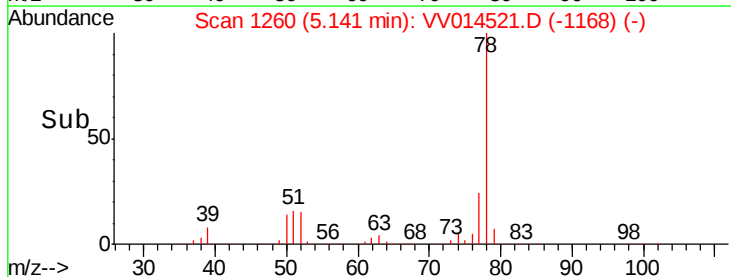
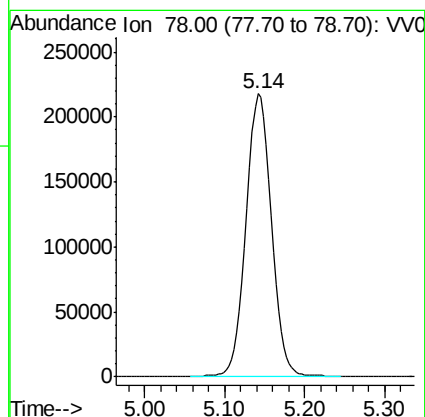
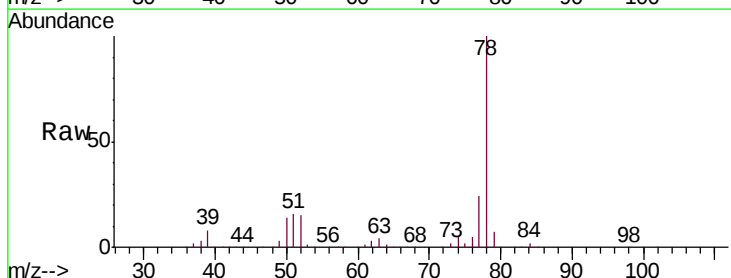
Tgt Ion:117 Resp: 157724  
 Ion Ratio Lower Upper  
 117 100  
 119 95.1 76.7 115.1

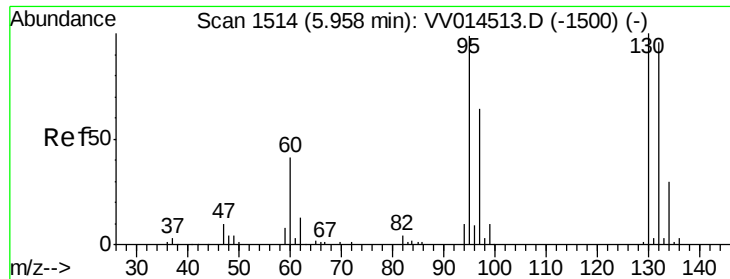


#33

Benzene  
 Concen: 48.420 ug/L  
 RT: 5.14 min Scan# 1260  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

Tgt Ion: 78 Resp: 469041





#34

Trichloroethene

Concen: 48.060 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

Tgt Ion: 95 Resp: 123402

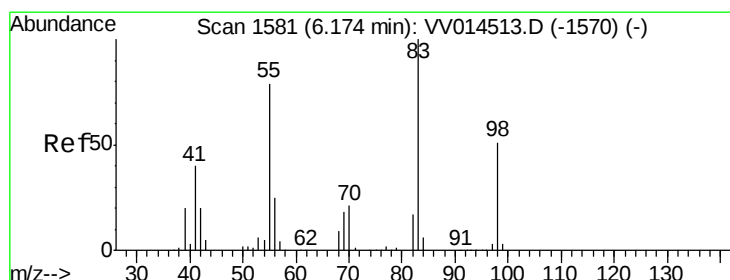
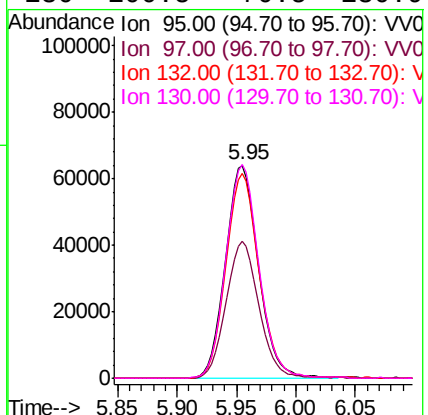
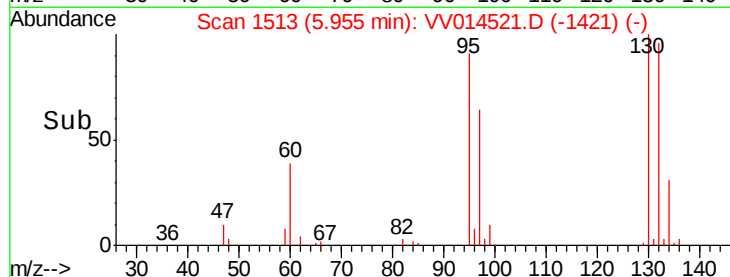
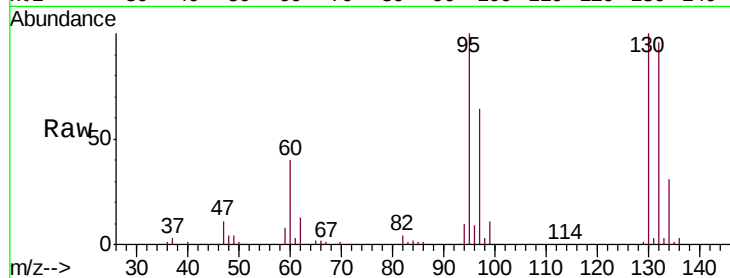
Ion Ratio Lower Upper

95 100

97 64.5 45.1 83.7

132 96.2 67.7 125.7

130 100.5 70.5 130.9



#35

Methylcyclohexane

Concen: 48.870 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

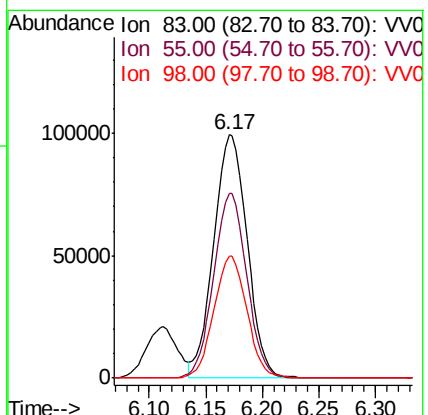
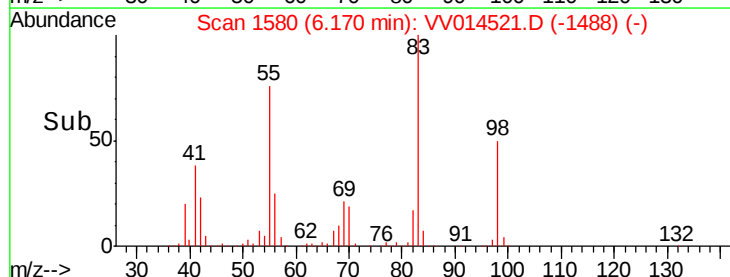
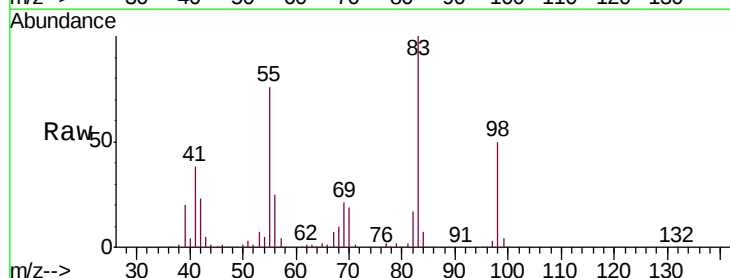
Tgt Ion: 83 Resp: 205057

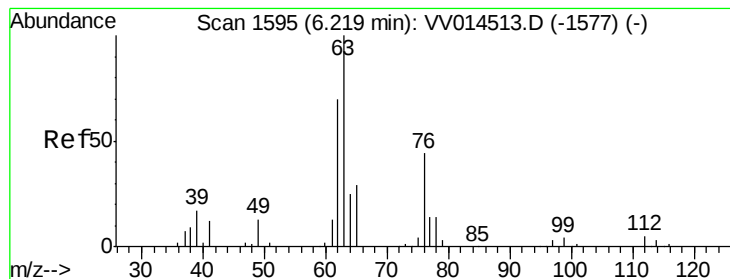
Ion Ratio Lower Upper

83 100

55 75.0 60.7 91.1

98 49.4 39.4 59.0





#37

1,2-Dichloropropane

Concen: 48.083 ug/L

RT: 6.21 min Scan# 1593

Delta R.T. -0.01 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

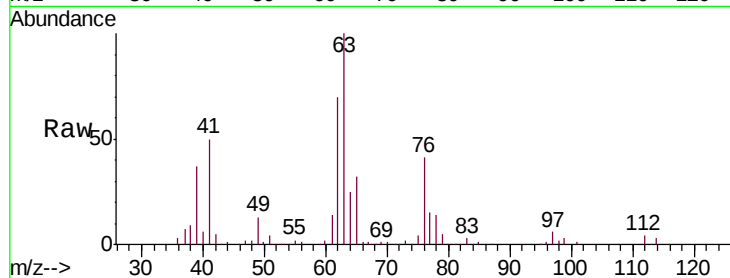
VSTD050207

Tgt Ion: 63 Resp: 118639

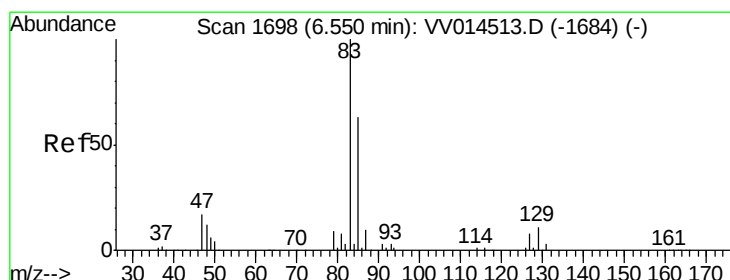
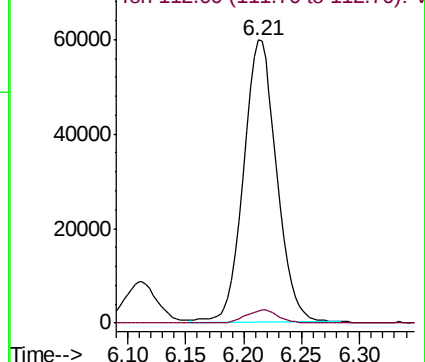
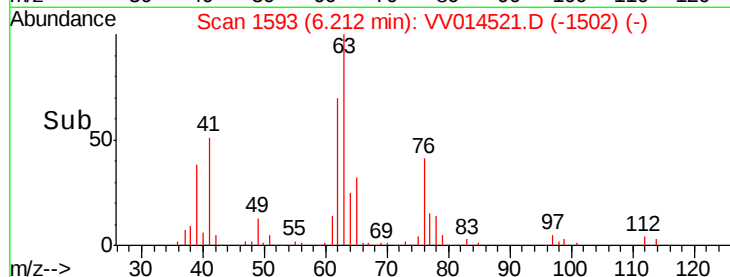
Ion Ratio Lower Upper

63 100

112 4.7 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VV014521.D (-1502) (-)



#38

Bromodichloromethane

Concen: 47.714 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

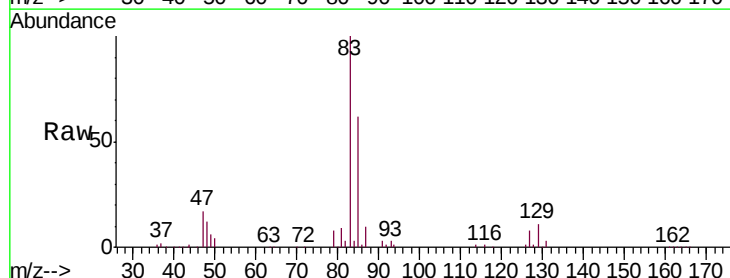
Tgt Ion: 83 Resp: 157995

Ion Ratio Lower Upper

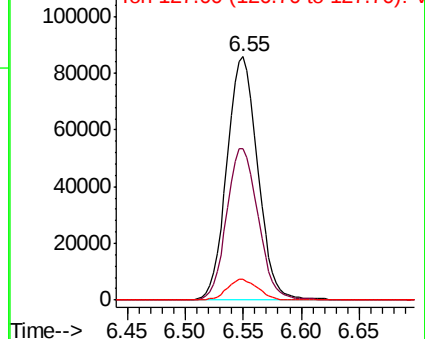
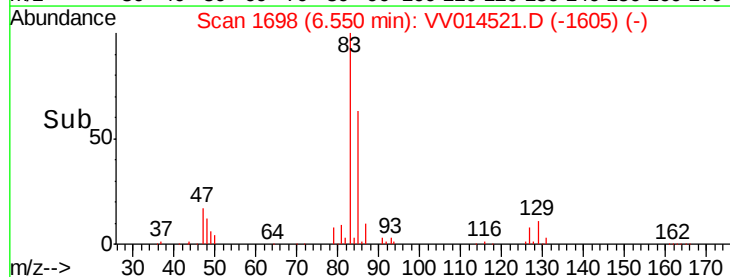
83 100

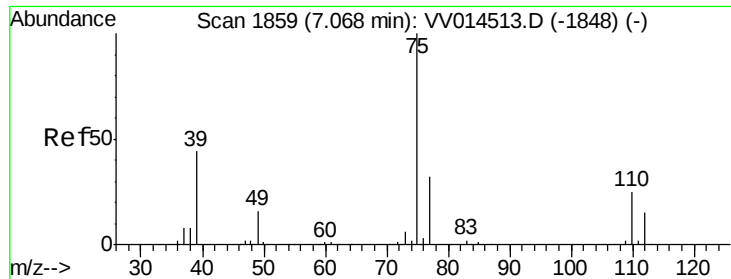
85 62.4 44.4 82.4

127 8.5 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV014521.D (-1605) (-)

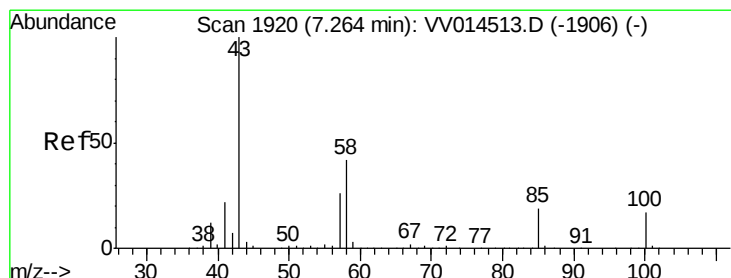
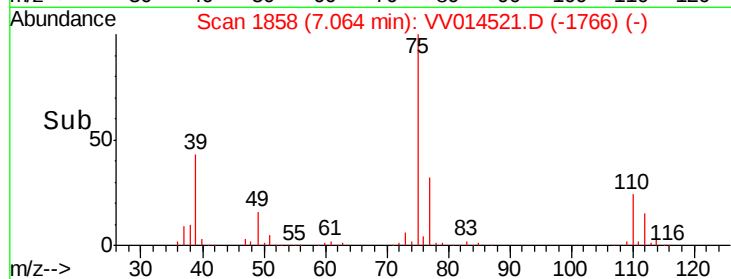
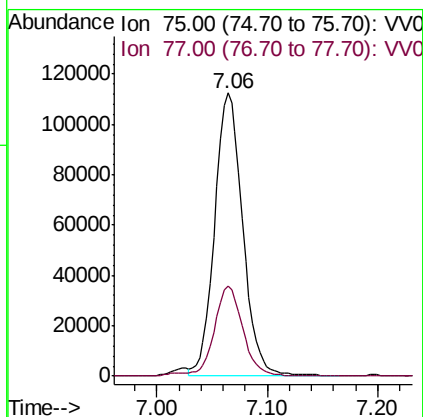
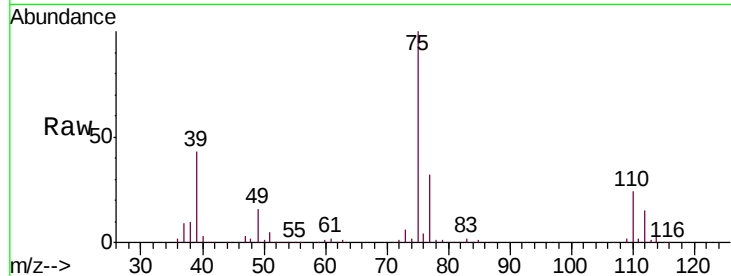




#39  
 cis-1,3-Dichloropropene  
 Concen: 47.991 ug/L  
 RT: 7.06 min Scan# 1858  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

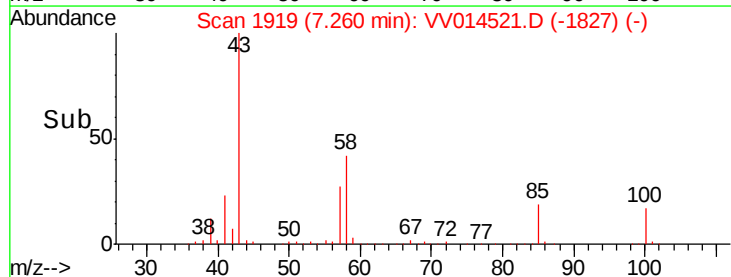
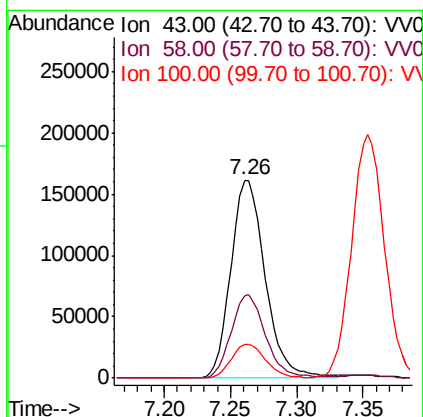
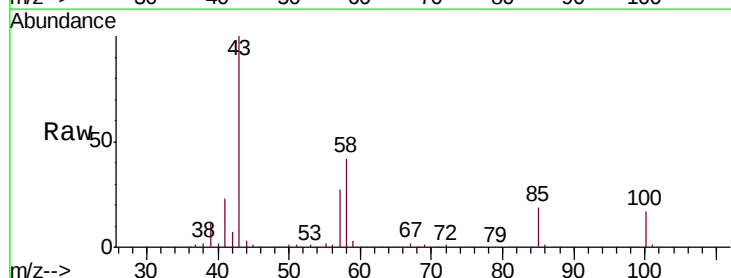
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050207

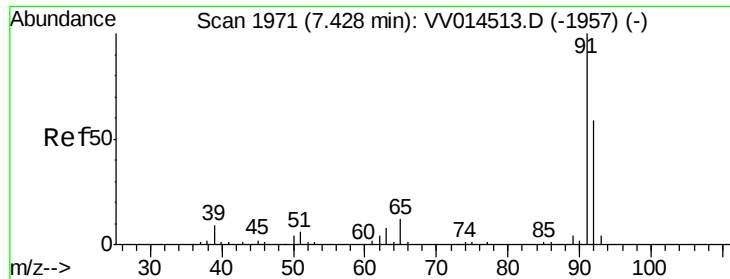
Tgt Ion: 75 Resp: 197527  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 22.7 42.1



#40  
 4-Methyl-2-pentanone  
 Concen: 91.386 ug/L  
 RT: 7.26 min Scan# 1919  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

Tgt Ion: 43 Resp: 291385  
 Ion Ratio Lower Upper  
 43 100  
 58 42.1 33.2 49.8  
 100 17.0 13.9 20.9





#42

Toluene

Concen: 48.303 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

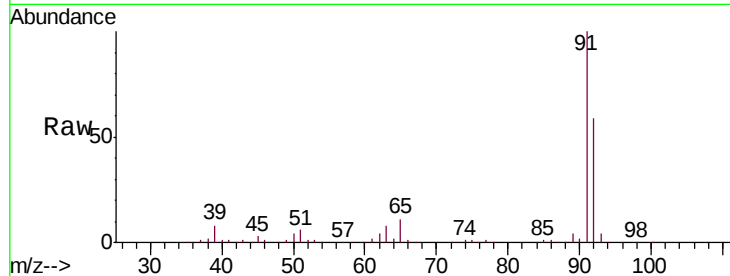
VSTD050207

Tgt Ion: 91 Resp: 501675

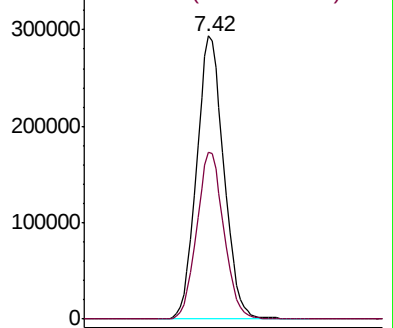
Ion Ratio Lower Upper

91 100

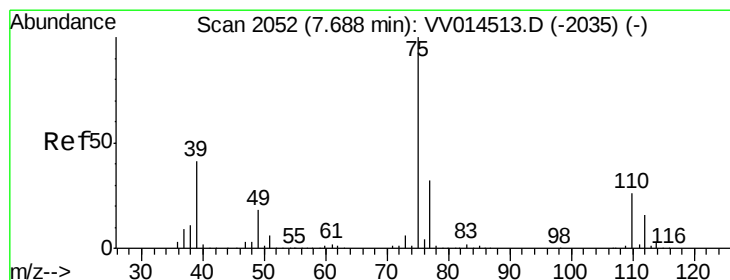
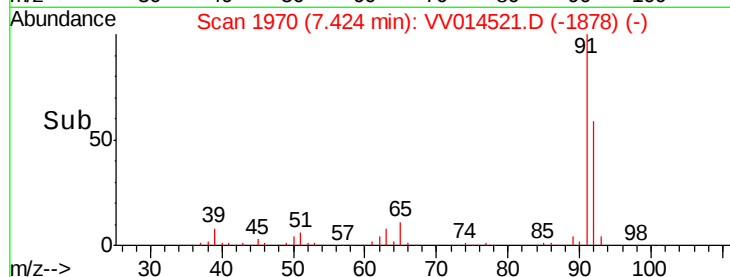
92 58.9 41.6 77.2



Abundance Ion 91.00 (90.70 to 91.70): VV014521.D (-1957) (-)



Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.680 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014521.D

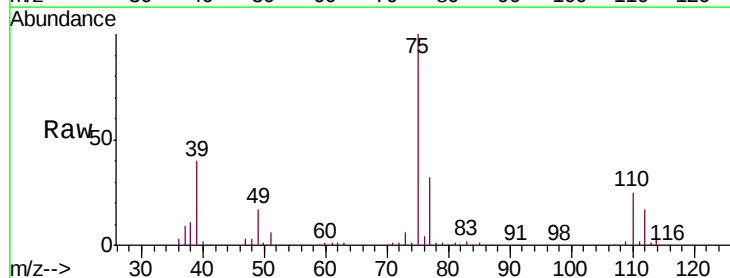
Acq: 06 Feb 2020 16:19

Tgt Ion: 75 Resp: 179651

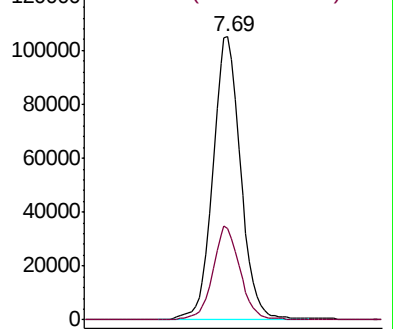
Ion Ratio Lower Upper

75 100

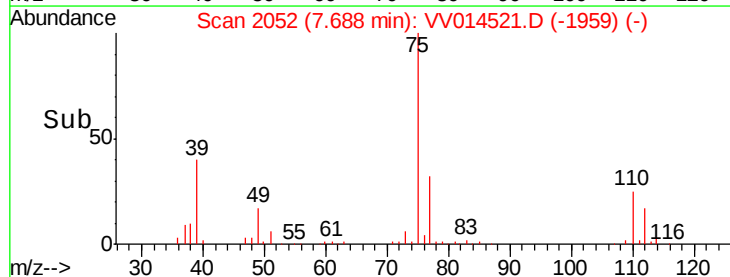
77 32.3 22.2 41.2

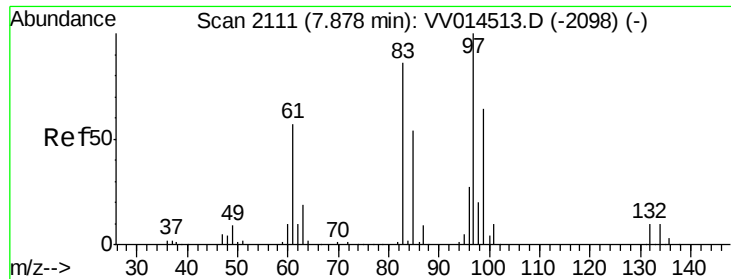


Abundance Ion 75.00 (74.70 to 75.70): VV014521.D (-1959) (-)



Time-->

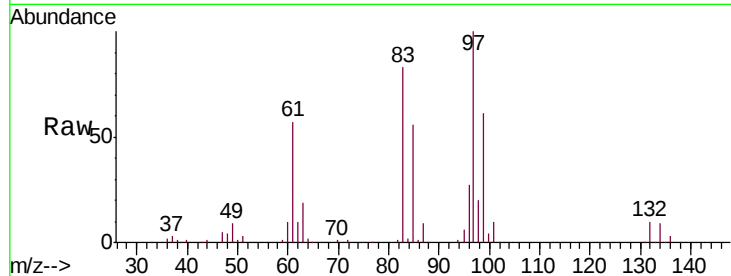




#45  
 1,1,2-Trichloroethane  
 Concen: 47.372 ug/L  
 RT: 7.87 min Scan# 2110  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050207

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 112137 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.0  | 44.5  | 82.7   |
| 83       | 83.3  | 60.1  | 111.5  |
| 85       | 55.6  | 38.1  | 70.9   |



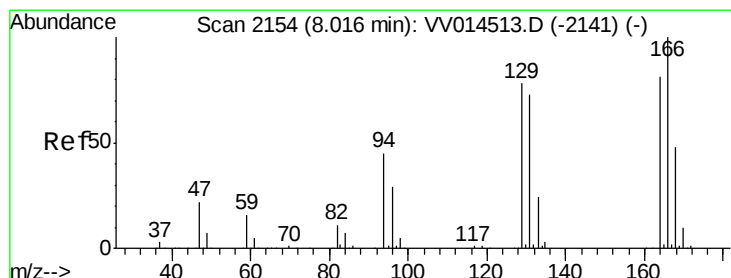
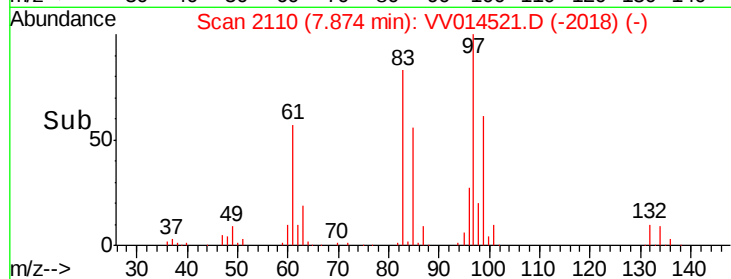
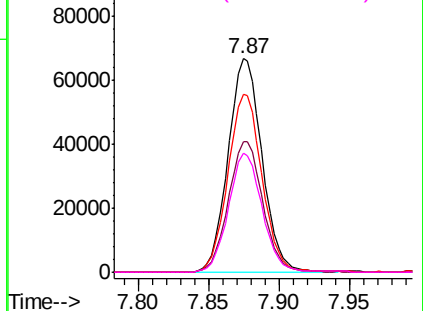
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

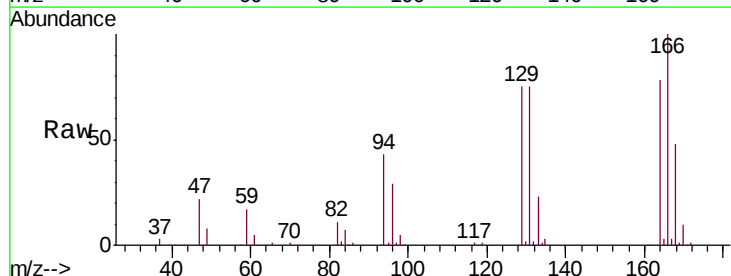
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46  
 Tetrachloroethene  
 Concen: 48.349 ug/L  
 RT: 8.01 min Scan# 2153  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 94706 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 95.6  | 68.0  | 126.4 |
| 131      | 95.5  | 63.4  | 117.8 |
| 166      | 127.8 | 86.9  | 161.3 |



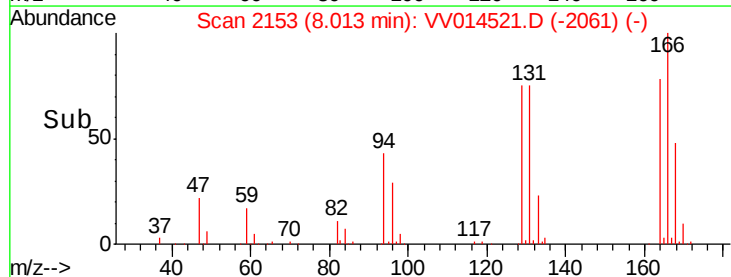
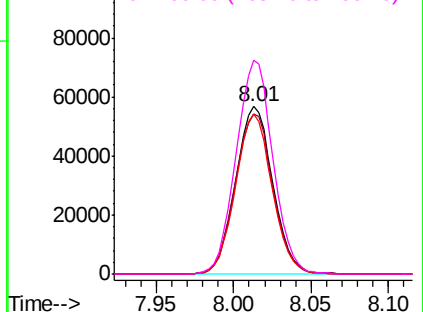
Abundance

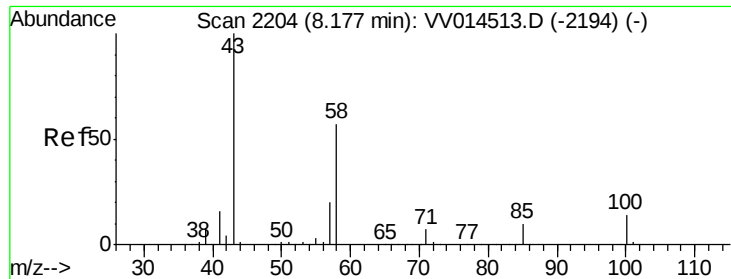
Ion 164.00 (163.70 to 164.70): V

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: 91.050 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

Tgt Ion: 43 Resp: 223490

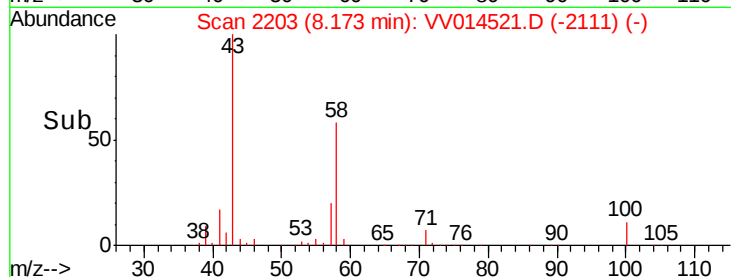
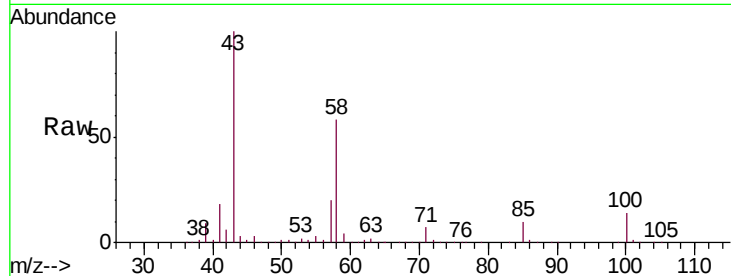
Ion Ratio Lower Upper

43 100

58 59.7 45.5 68.3

57 20.4 15.8 23.6

100 14.4 10.8 16.2

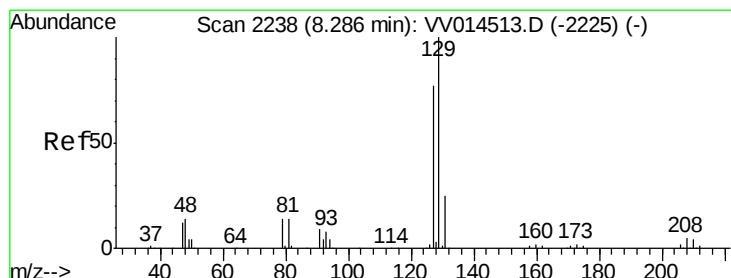
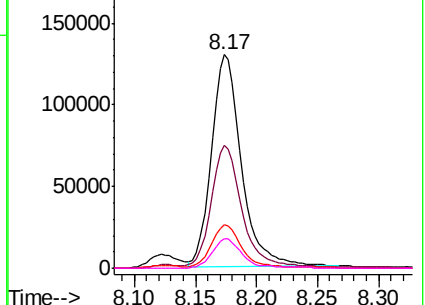


Abundance Ion 43.00 (42.70 to 43.70): VV014521.D (-2111) (-)

Ion 58.00 (57.70 to 58.70): VV014521.D (-2111) (-)

Ion 57.00 (56.70 to 57.70): VV014521.D (-2111) (-)

Ion 100.00 (99.70 to 100.70): VV014521.D (-2111) (-)



#49

Dibromochloromethane

Concen: 47.910 ug/L

RT: 8.28 min Scan# 2237

Delta R.T. -0.00 min

Lab File: VV014521.D

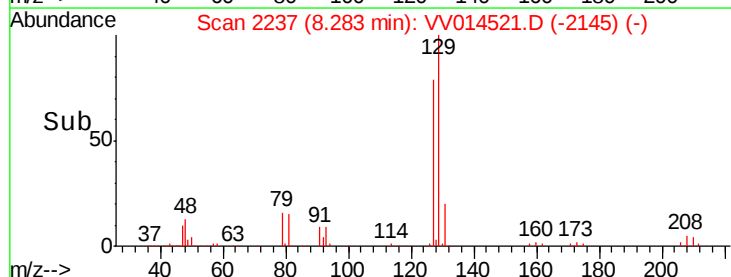
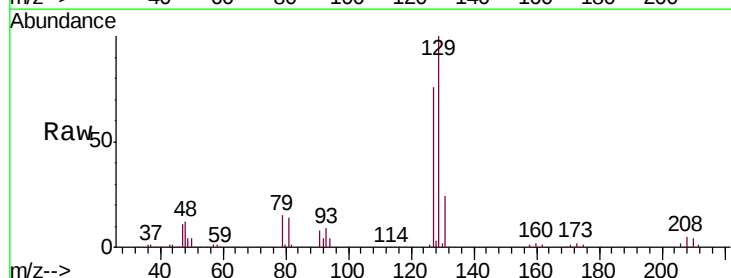
Acq: 06 Feb 2020 16:19

Tgt Ion: 129 Resp: 128039

Ion Ratio Lower Upper

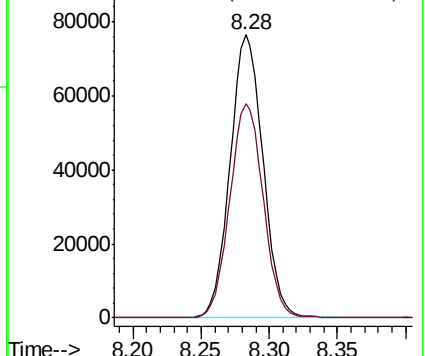
129 100

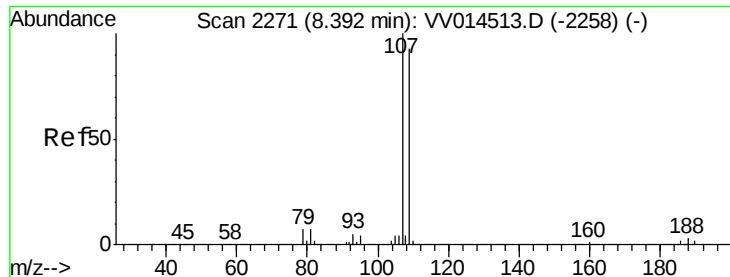
127 75.5 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): VV014521.D (-2145) (-)

Ion 127.00 (126.70 to 127.70): VV014521.D (-2145) (-)

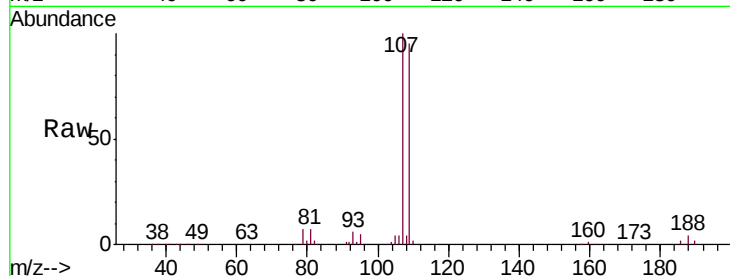




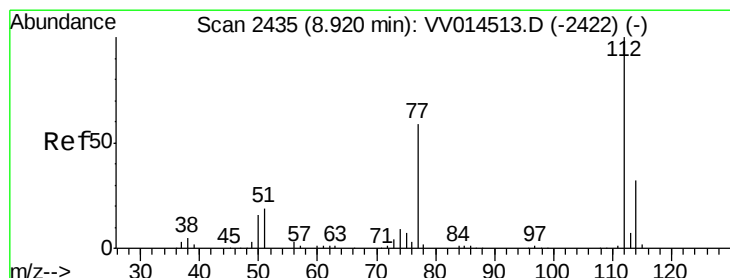
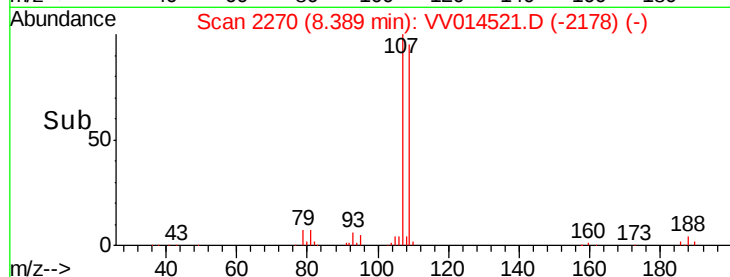
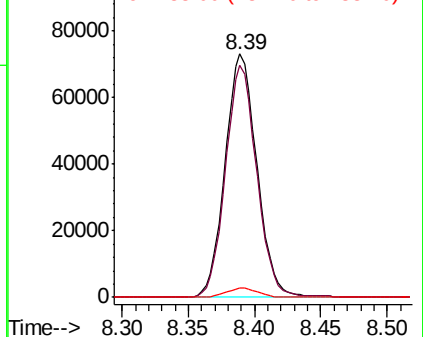
#50  
1,2-Dibromoethane  
Concen: 47.442 ug/L  
RT: 8.39 min Scan# 2270  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050207

Tgt Ion:107 Resp: 121630  
Ion Ratio Lower Upper  
107 100  
109 95.3 65.2 121.2  
188 3.6 2.6 4.0

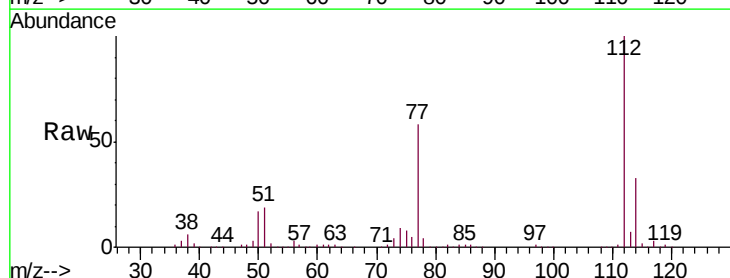


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

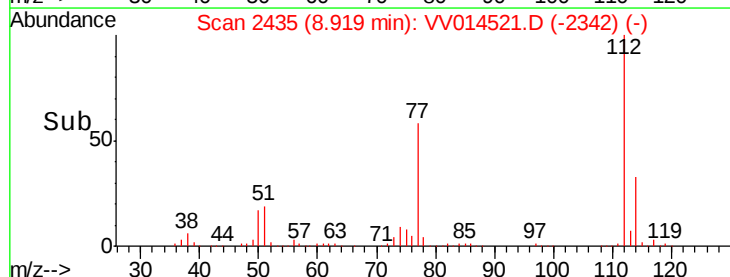
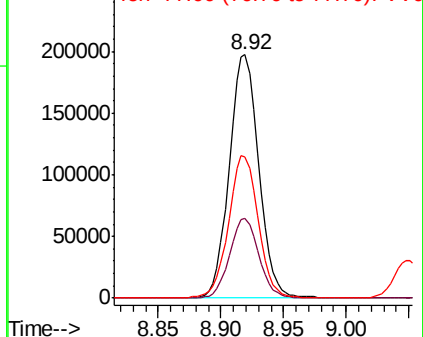


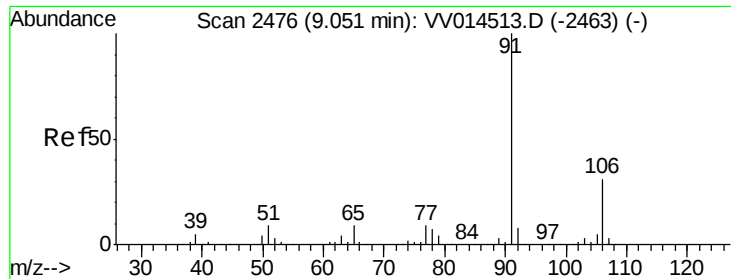
#51  
Chlorobenzene  
Concen: 47.534 ug/L  
RT: 8.92 min Scan# 2435  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Tgt Ion:112 Resp: 322480  
Ion Ratio Lower Upper  
112 100  
114 32.8 22.3 41.5  
77 58.3 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 48.130 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

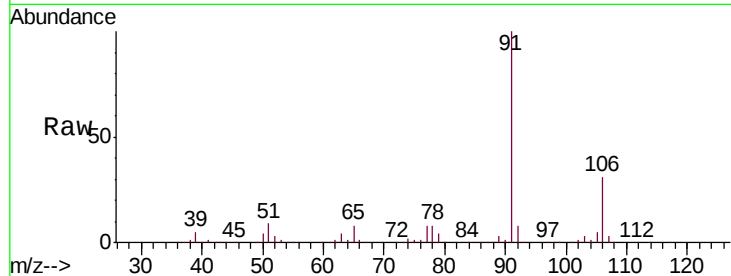
VSTD050207

Tgt Ion: 91 Resp: 560587

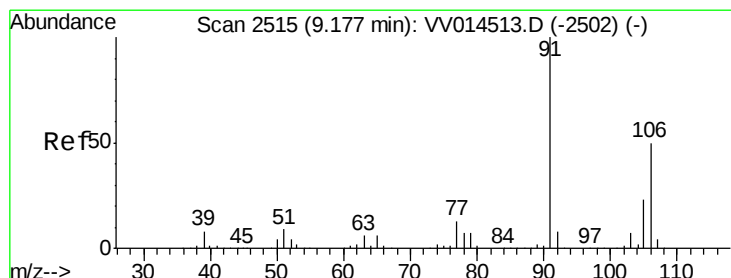
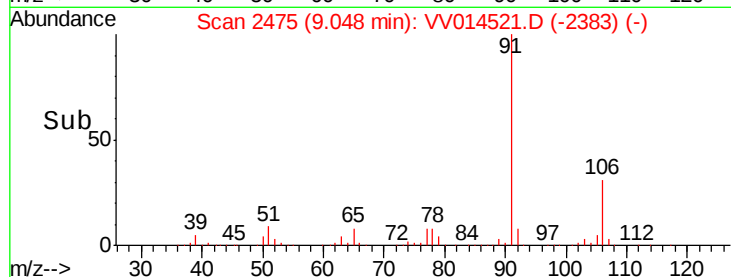
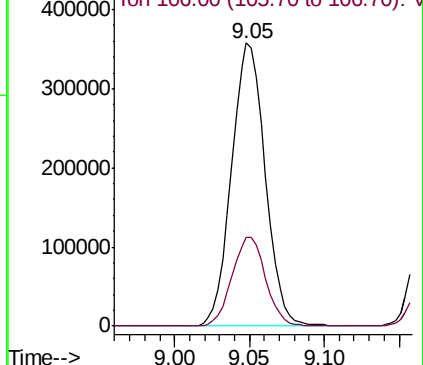
Ion Ratio Lower Upper

91 100

106 31.2 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VV014521.D (-2463) (-)



#53

m,p-Xylene

Concen: 47.726 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014521.D

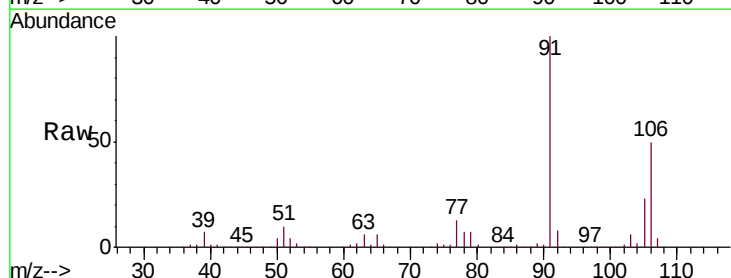
Acq: 06 Feb 2020 16:19

Tgt Ion: 106 Resp: 214122

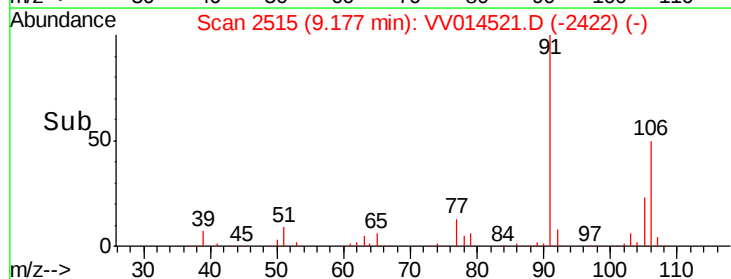
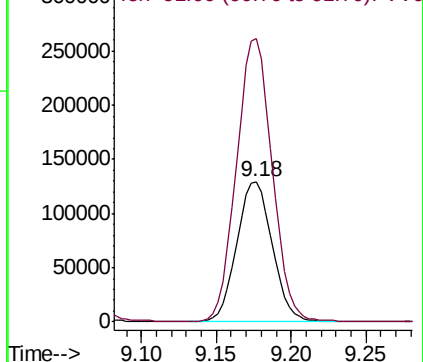
Ion Ratio Lower Upper

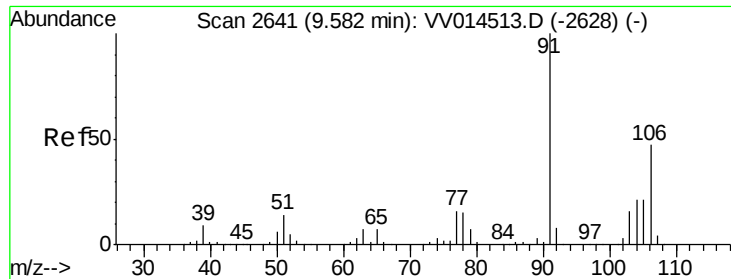
106 100

91 201.7 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV014521.D (-2502) (-)

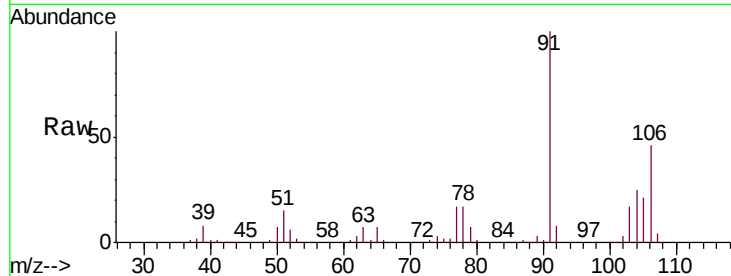




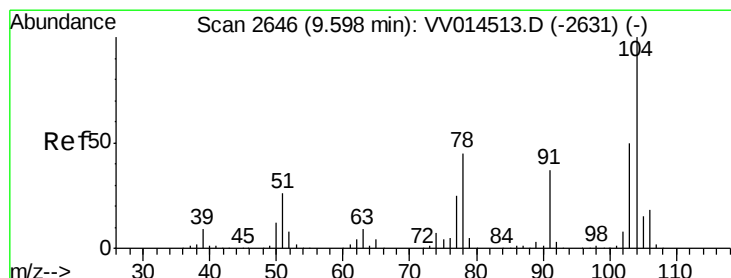
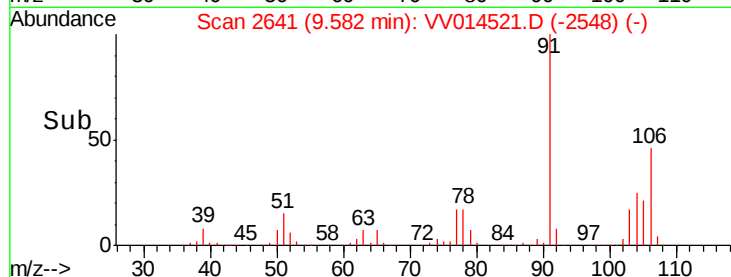
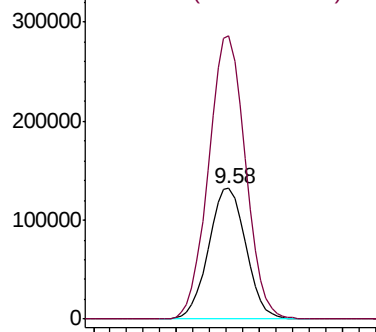
#54  
o-Xylene  
Concen: 48.309 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050207

Tgt Ion:106 Resp: 207448  
Ion Ratio Lower Upper  
106 100  
91 216.2 149.4 277.4

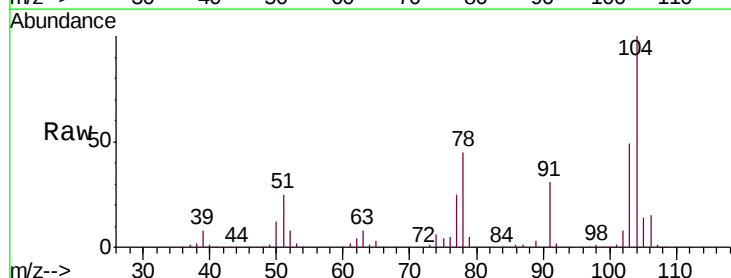


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

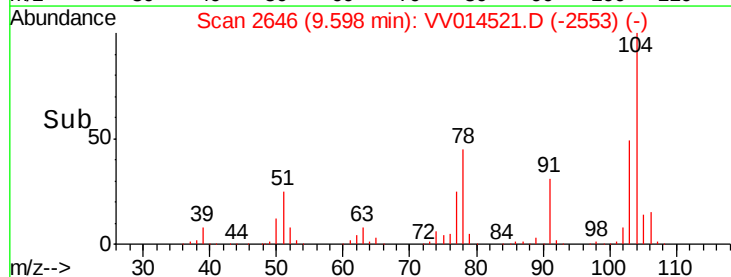
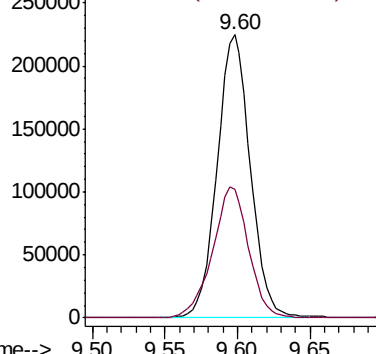


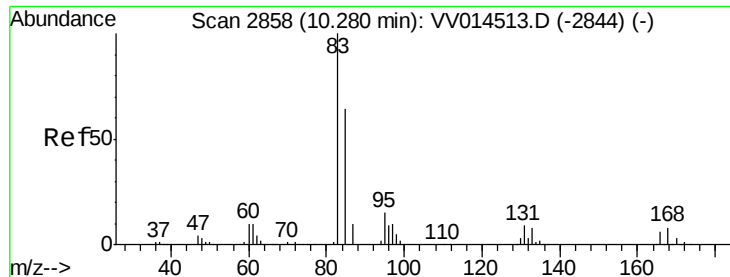
#55  
Styrene  
Concen: 48.819 ug/L  
RT: 9.60 min Scan# 2646  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Tgt Ion:104 Resp: 358292  
Ion Ratio Lower Upper  
104 100  
78 45.5 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 47.664 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

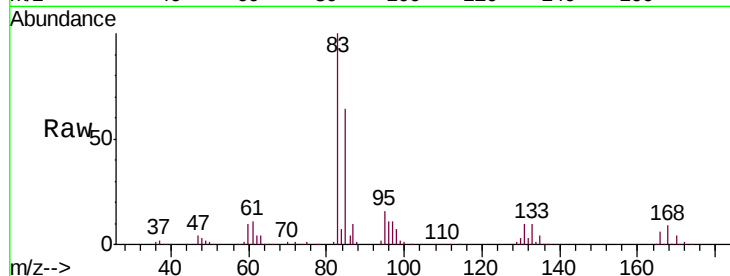
Tgt Ion: 83 Resp: 176834

Ion Ratio Lower Upper

83 100

85 63.7 45.2 84.0

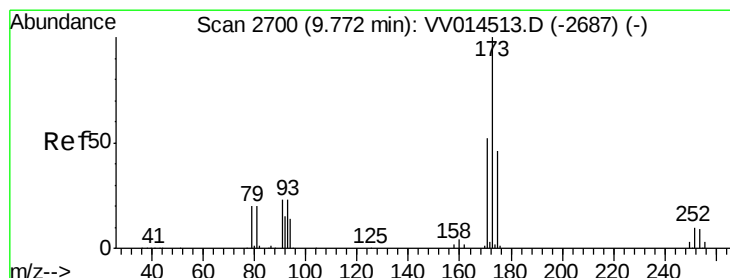
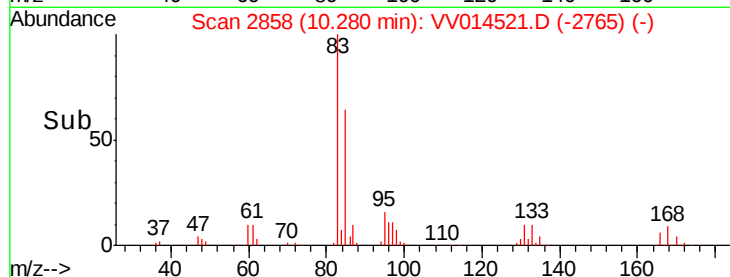
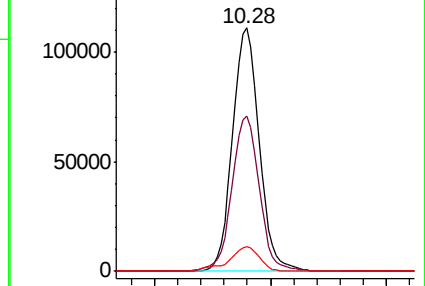
131 10.2 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VV014521.D (-2607) (-)

Ion 85.00 (84.70 to 85.70): VV014521.D (-2607) (-)

Ion 131.00 (130.70 to 131.70): VV014521.D (-2607) (-)



#59

Bromoform

Concen: 45.868 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

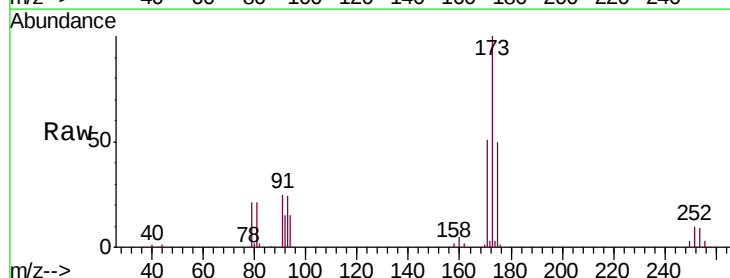
Tgt Ion: 173 Resp: 85454

Ion Ratio Lower Upper

173 100

175 48.7 37.8 56.8

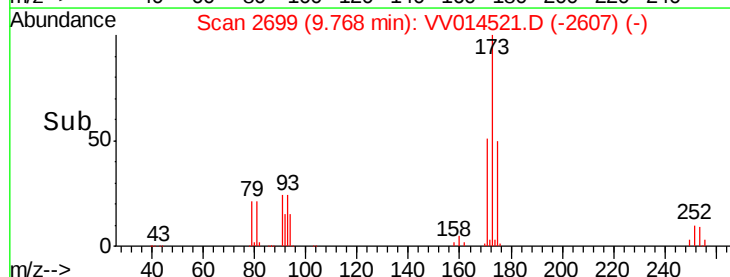
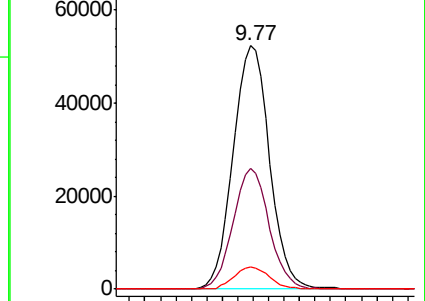
254 8.7 7.0 10.6

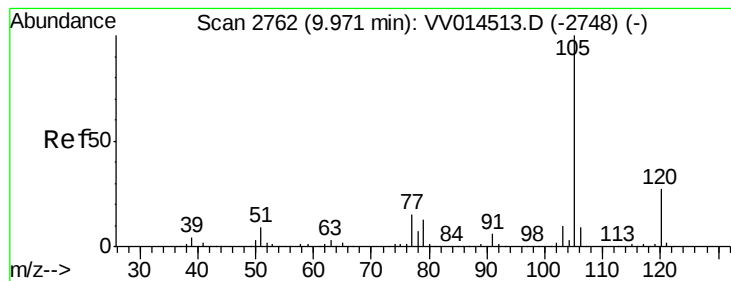


Abundance Ion 173.00 (172.70 to 173.70): VV014521.D (-2607) (-)

Ion 175.00 (174.70 to 175.70): VV014521.D (-2607) (-)

Ion 254.00 (253.70 to 254.70): VV014521.D (-2607) (-)





#60

Isopropylbenzene

Concen: 48.444 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

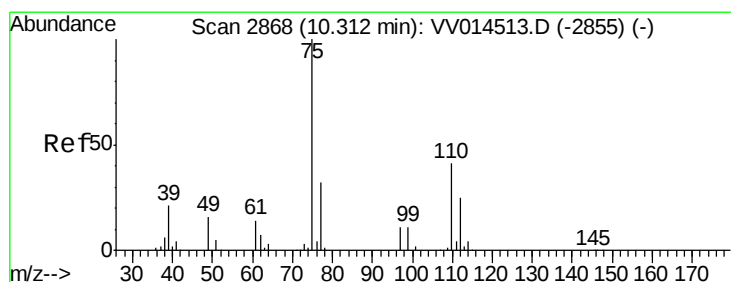
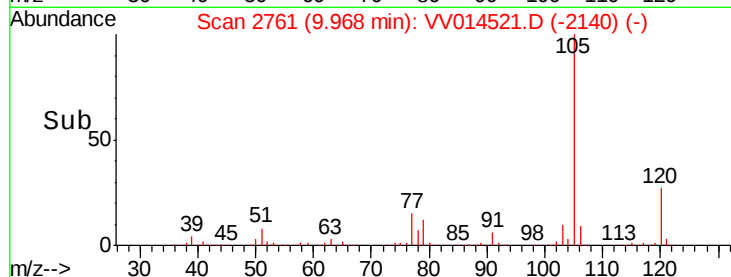
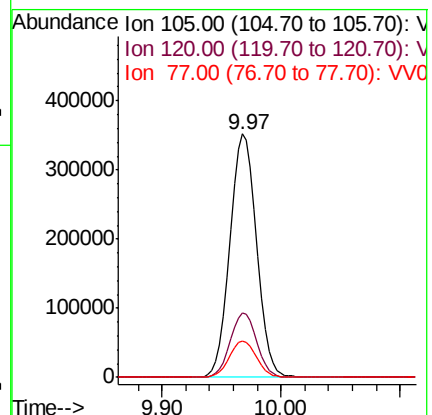
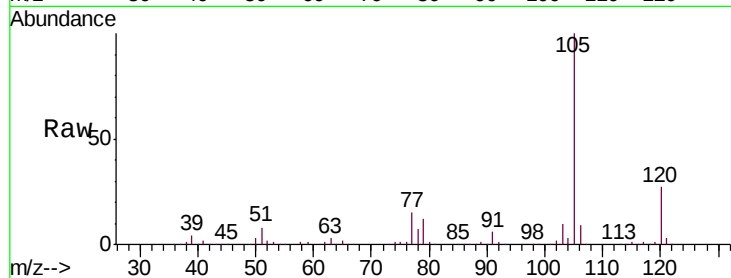
Tgt Ion: 105 Resp: 547205

Ion Ratio Lower Upper

105 100

120 26.4 21.5 32.3

77 15.1 12.2 18.4



#61

1,2,3-Trichloropropane

Concen: 46.399 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

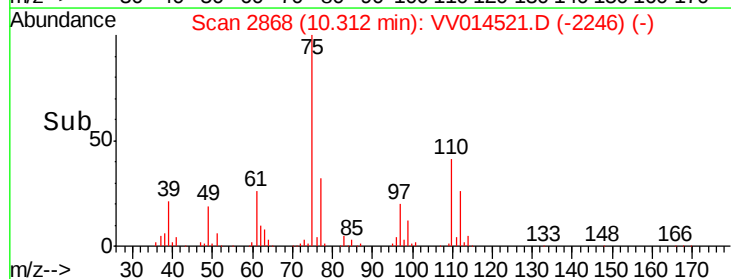
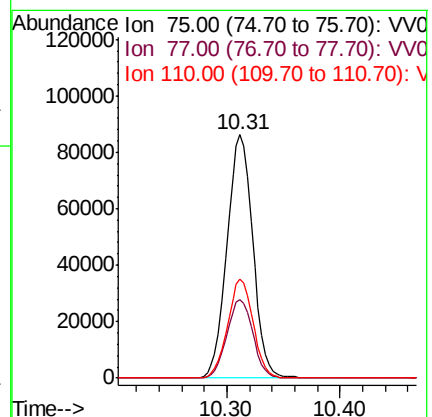
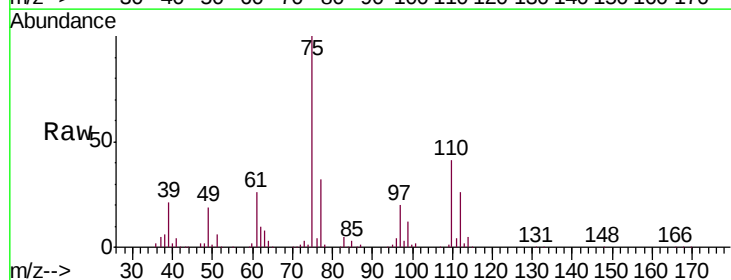
Tgt Ion: 75 Resp: 137257

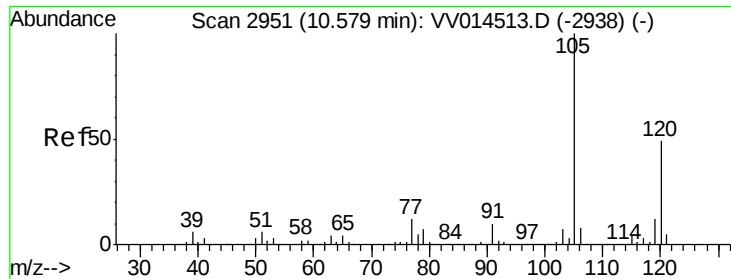
Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8

110 40.2 32.4 48.6





#62

1,3,5-Trimethylbenzene

Concen: 48.354 ug/L

RT: 10.58 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

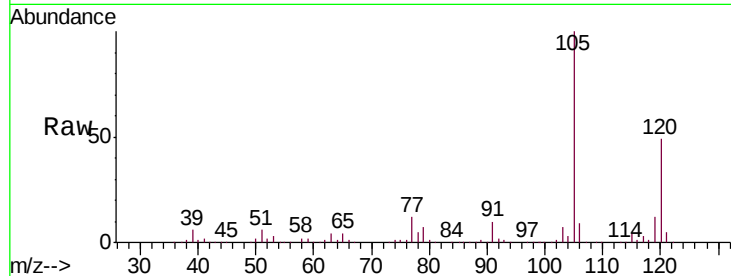
VSTD050207

Tgt Ion:105 Resp: 467588

Ion Ratio Lower Upper

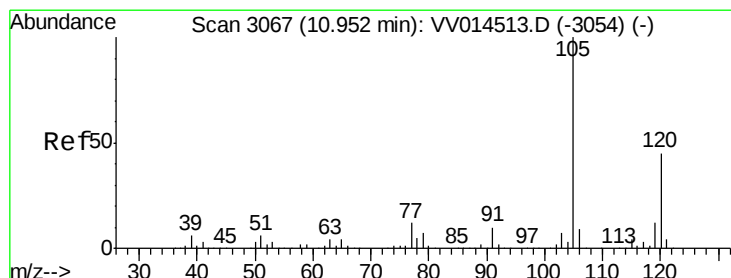
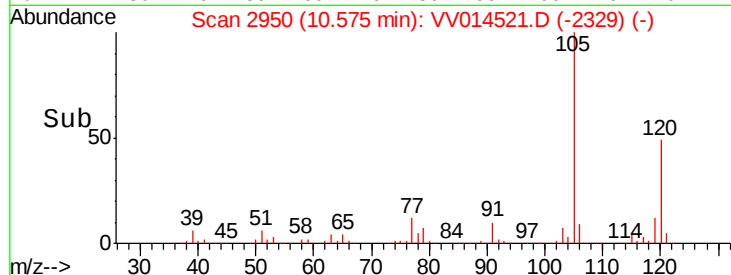
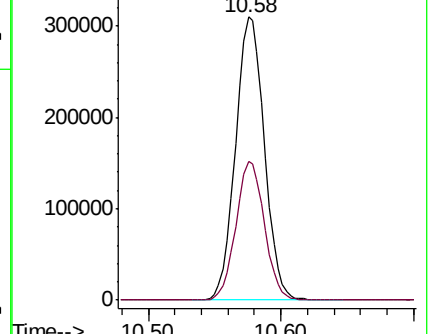
105 100

120 48.6 39.0 58.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 48.569 ug/L

RT: 10.95 min Scan# 3067

Delta R.T. -0.00 min

Lab File: VV014521.D

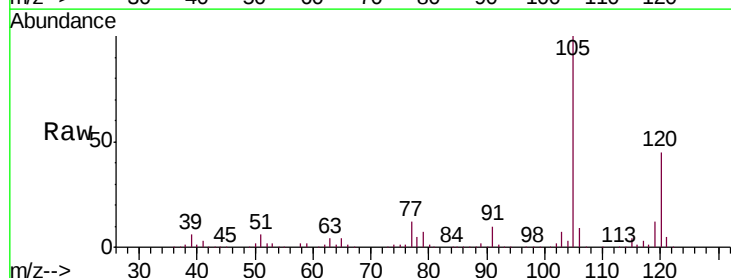
Acq: 06 Feb 2020 16:19

Tgt Ion:105 Resp: 463021

Ion Ratio Lower Upper

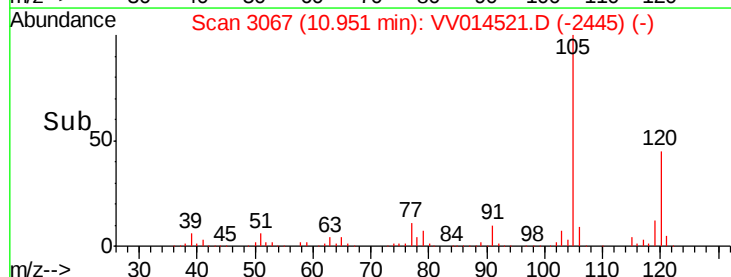
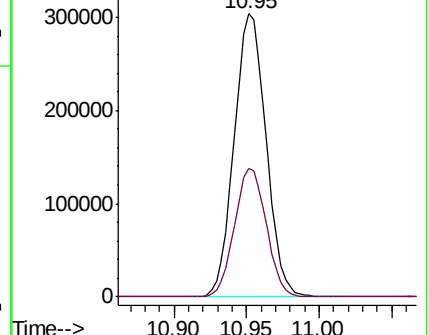
105 100

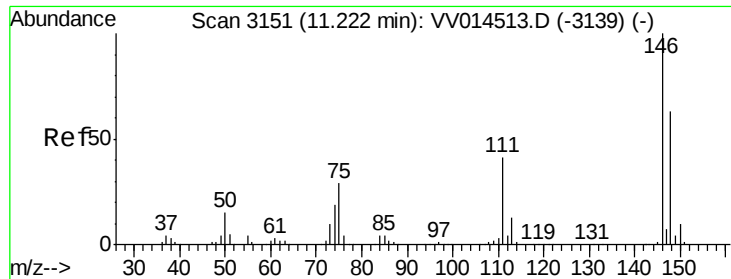
120 45.5 36.2 54.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 47.812 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050207

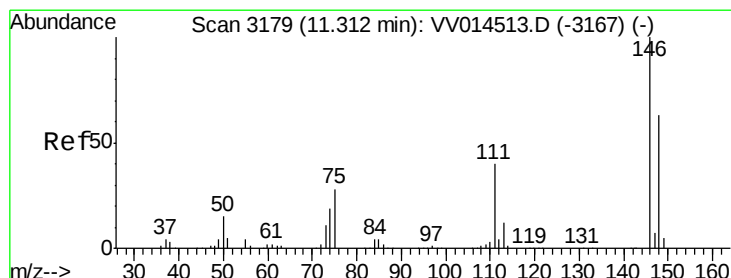
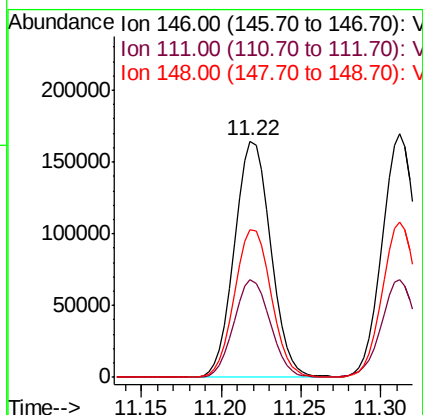
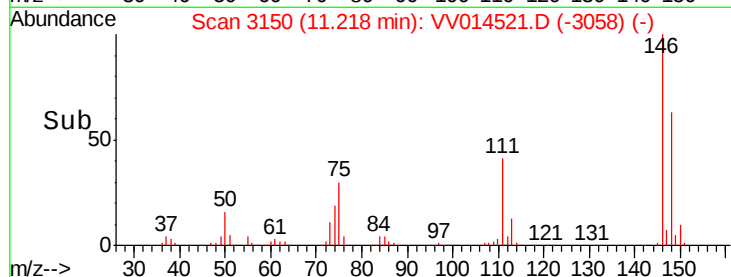
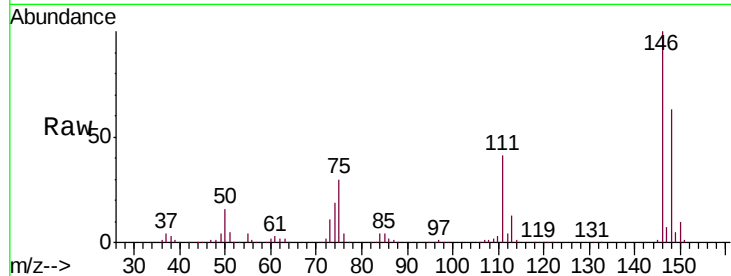
Tgt Ion:146 Resp: 254746

Ion Ratio Lower Upper

146 100

111 41.4 28.9 53.7

148 62.6 44.4 82.5



#65

1,4-Dichlorobenzene

Concen: 47.154 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014521.D

Acq: 06 Feb 2020 16:19

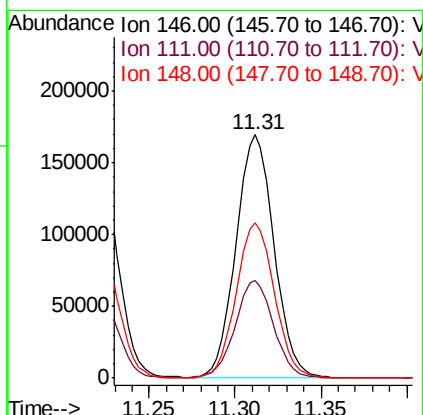
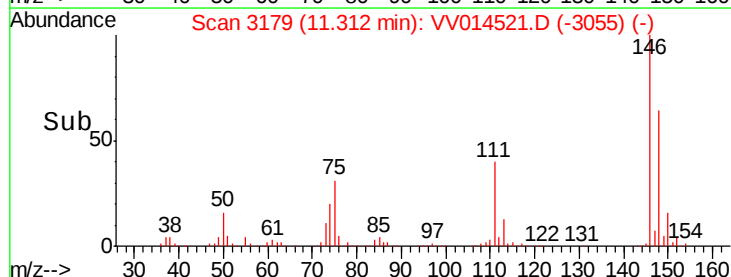
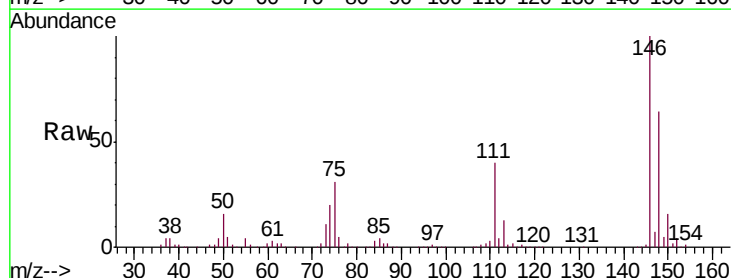
Tgt Ion:146 Resp: 258642

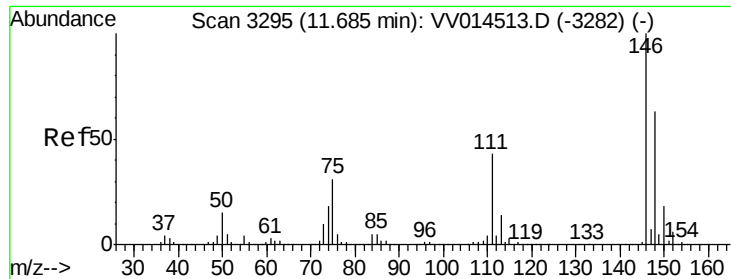
Ion Ratio Lower Upper

146 100

111 40.1 28.1 52.3

148 64.0 44.4 82.4

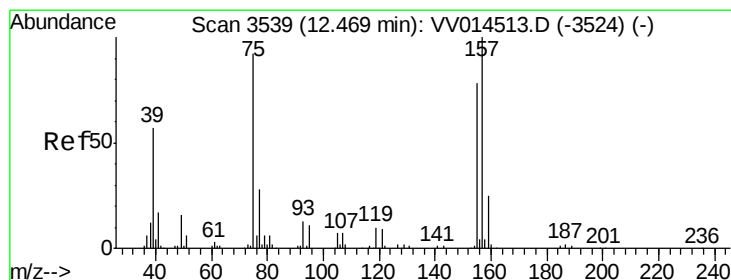
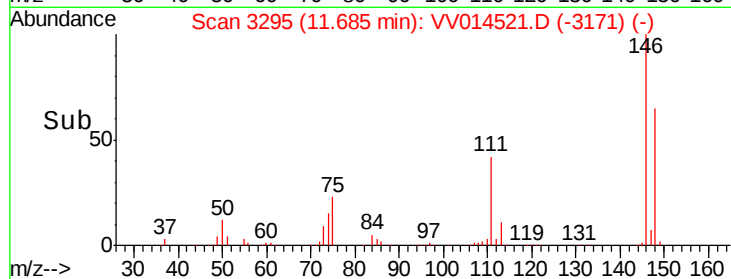
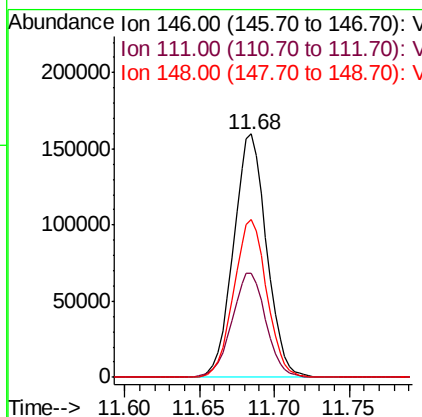
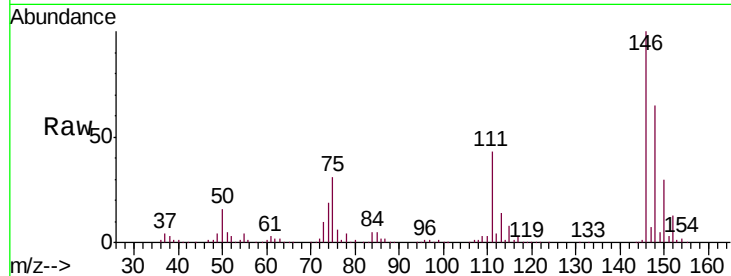




#67  
 1,2-Dichlorobenzene  
 Concen: 47.574 ug/L  
 RT: 11.68 min Scan# 3295  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

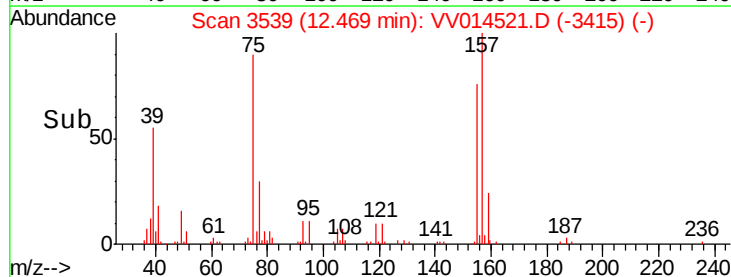
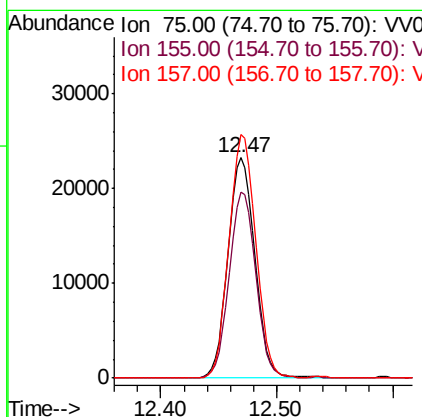
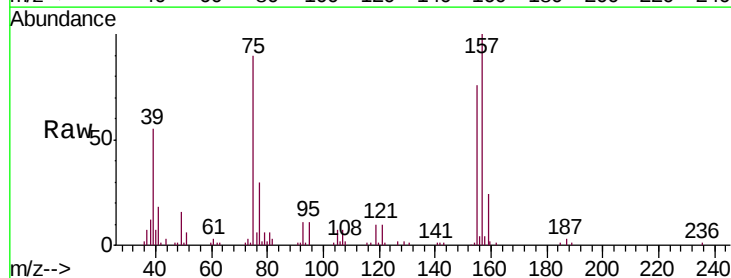
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050207

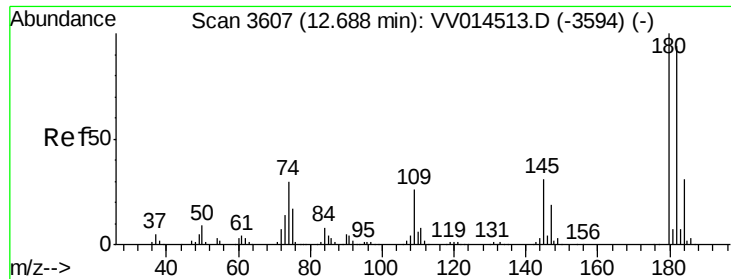
Tgt Ion: 146 Resp: 245763  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 34.6 51.8  
 148 64.7 50.2 75.4



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 44.952 ug/L  
 RT: 12.47 min Scan# 3539  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

Tgt Ion: 75 Resp: 37239  
 Ion Ratio Lower Upper  
 75 100  
 155 84.2 68.3 102.5  
 157 110.6 87.1 130.7

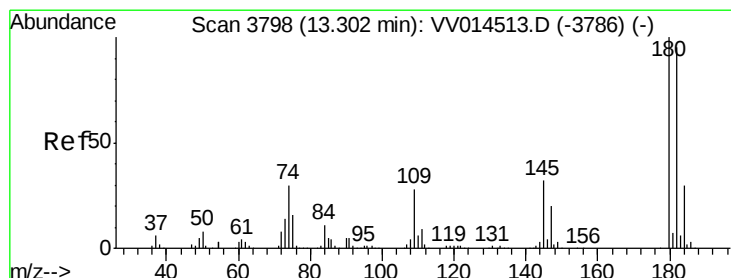
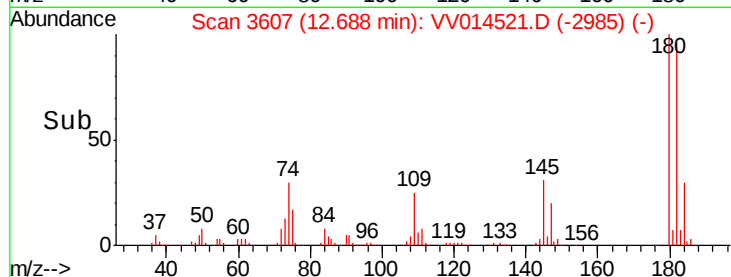
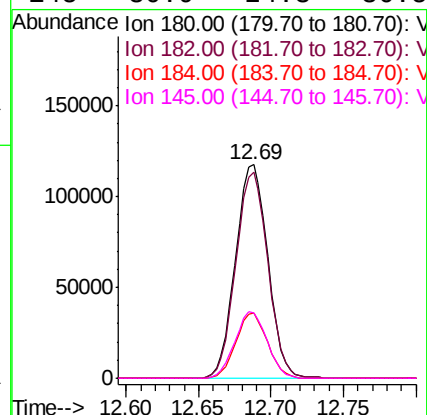
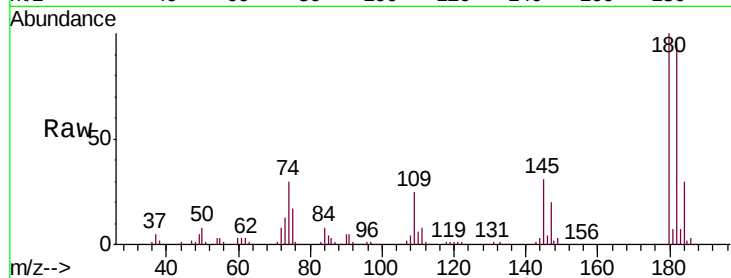




#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.599 ug/L  
 RT: 12.69 min Scan# 3607  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

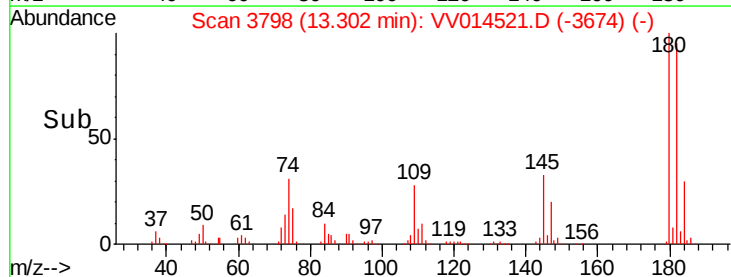
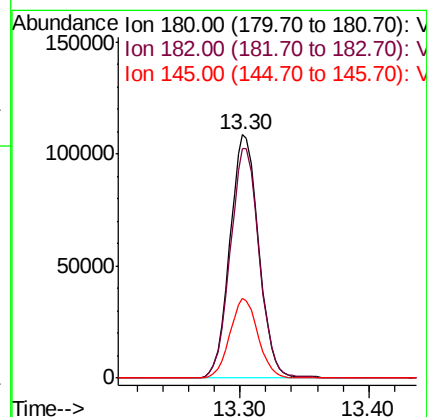
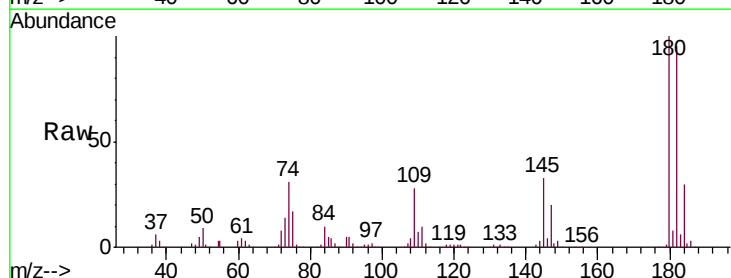
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050207

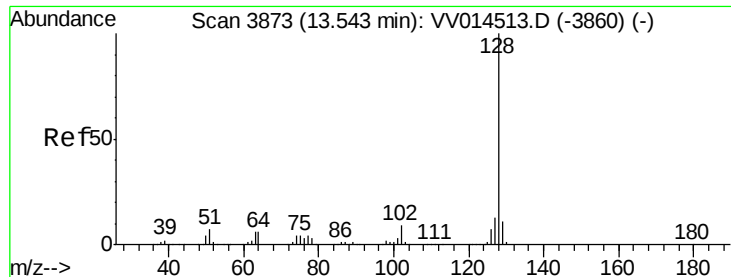
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 75.0  | 112.4 |
| 184     | 29.9  | 24.2  | 36.2  |
| 145     | 30.9  | 24.3  | 36.5  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 48.759 ug/L  
 RT: 13.30 min Scan# 3798  
 Delta R.T. -0.00 min  
 Lab File: VV014521.D  
 Acq: 06 Feb 2020 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.7  | 76.0  | 114.0 |
| 145     | 31.8  | 25.3  | 37.9  |

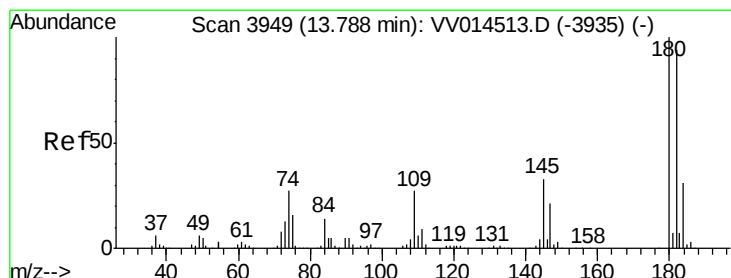
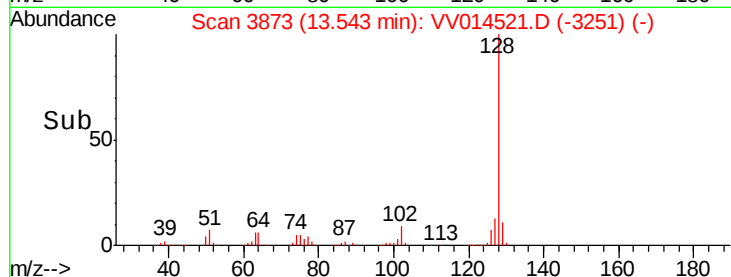
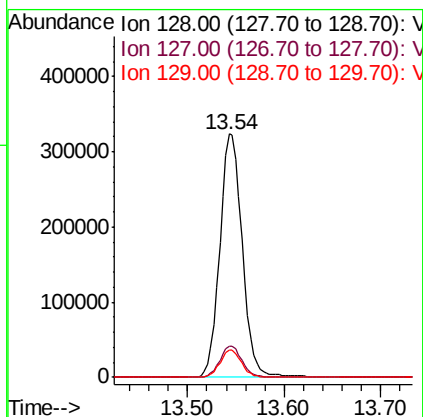
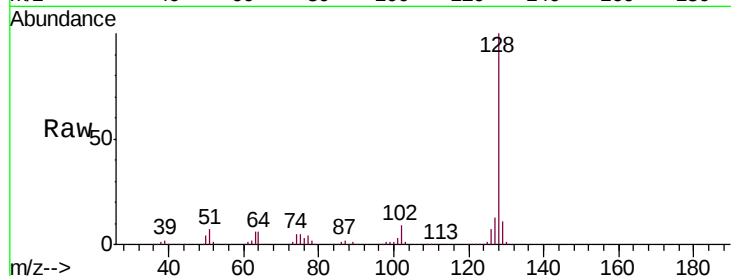




#71  
Naphthalene  
Concen: 46.019 ug/L  
RT: 13.54 min Scan# 3873  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050207

Tgt Ion:128 Resp: 520954  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.3 15.5  
129 10.9 8.7 13.1



#72  
1,2,3-Trichlorobenzene  
Concen: 47.083 ug/L  
RT: 13.79 min Scan# 3949  
Delta R.T. -0.00 min  
Lab File: VV014521.D  
Acq: 06 Feb 2020 16:19

Tgt Ion:180 Resp: 157655  
Ion Ratio Lower Upper  
180 100  
182 96.0 75.2 112.8  
145 34.3 27.1 40.7

