

Data File : VV014449.D  
Acq On : 31 Jan 2020 13:14  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 6 Sample Multiplier: 1Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00555Quant Time: Jan 31 23:12:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR012920WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jan 31 23:09:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 226299   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 207220   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 98452    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 58725    | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.80% |
| 7) Chloroethane-d5             | 1.59   | 69    | 40607    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.00% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 85999    | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 107683   | 40.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.62% |
| 24) Chloroform-d               | 4.39   | 84    | 126194   | 4.47     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40% |
| 26) 1,2-Dichloroethane-d4      | 5.07   | 65    | 59156    | 4.70     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.00% |
| 32) Benzene-d6                 | 5.09   | 84    | 277779   | 4.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 84164    | 4.72     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.40% |
| 41) Toluene-d8                 | 7.35   | 98    | 258718   | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 34320    | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.40% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 130792   | 48.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.76% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 59667    | 4.90     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 85501    | 4.84     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.80% |

## Target Compounds

|                                |      |     |        |        | Qvalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 89259  | 4.884  | ug/L 100  |
| 3) Chloromethane               | 1.26 | 50  | 73149  | 5.203  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 70009  | 4.964  | ug/L 98   |
| 6) Bromomethane                | 1.54 | 94  | 29080  | 6.174  | ug/L 98   |
| 8) Chloroethane                | 1.60 | 64  | 35162  | 4.996  | ug/L 96   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 93533  | 5.083  | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 47224  | 4.749  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 43535  | 4.788  | ug/L 99   |
| 13) Acetone                    | 2.21 | 43  | 55745  | 34.570 | ug/L 76   |
| 14) Carbon disulfide           | 2.32 | 76  | 219133 | 4.719  | ug/L 99   |
| 15) Methyl Acetate             | 2.47 | 43  | 29499  | 7.120  | ug/L # 86 |
| 16) Methylene chloride         | 2.53 | 84  | 81450  | 4.604  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 159988 | 4.841  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 77218  | 4.881  | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 138580 | 4.817  | ug/L 100  |
| 21) 2-Butanone                 | 4.03 | 43  | 129949 | 44.060 | ug/L 90   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 84072  | 4.916  | ug/L 97   |

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QLast Update : Fri Jan 31 23:09:59 2020  
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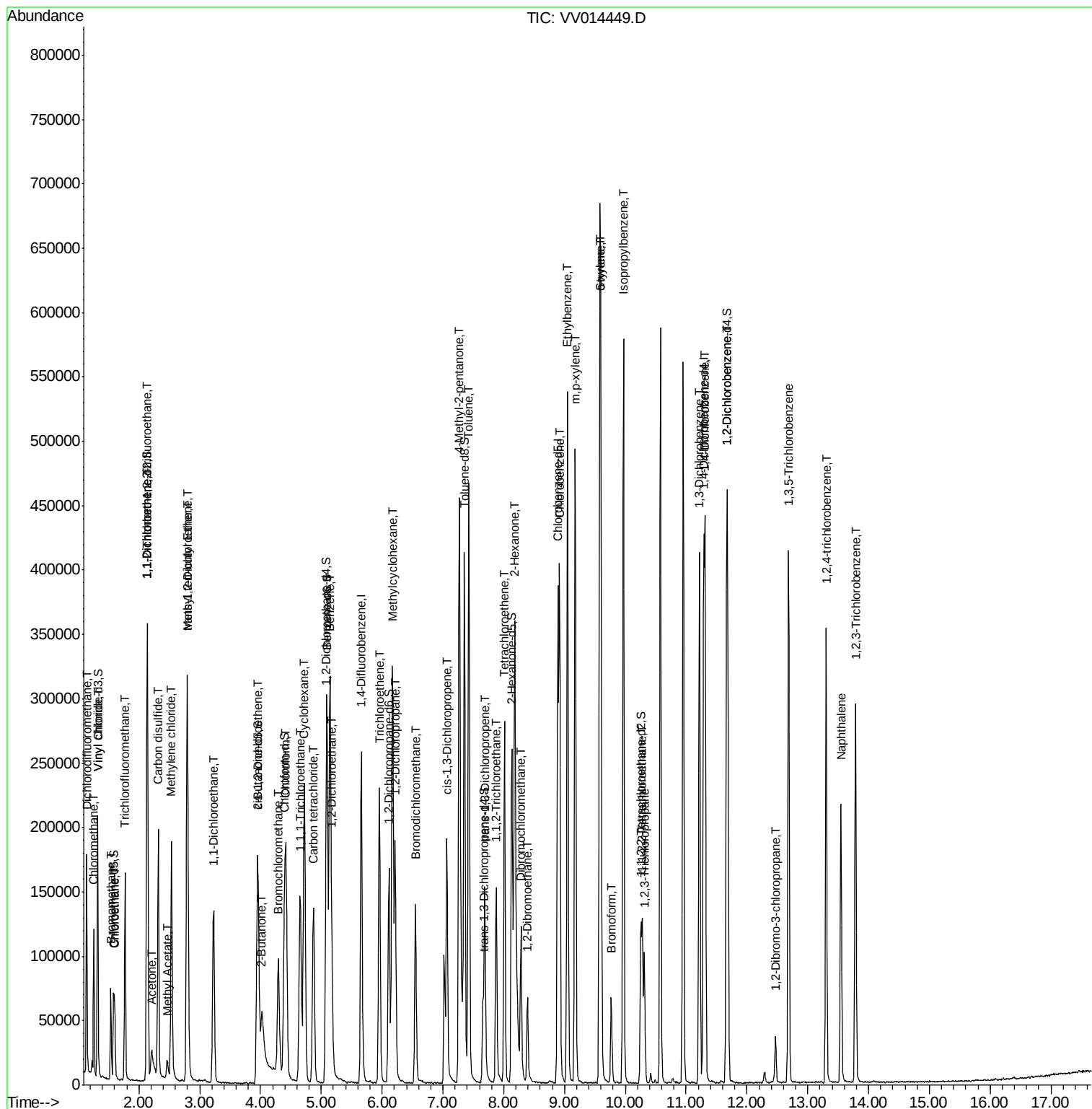
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 31446    | 4.943  | ug/L  | 97       |
| 25) Chloroform                 | 4.42  | 83   | 145918   | 5.050  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.17  | 62   | 73151    | 4.708  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane      | 4.65  | 97   | 120785   | 4.919  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 137777   | 4.863  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 100713   | 4.823  | ug/L  | 98       |
| 33) Benzene                    | 5.14  | 78   | 319790   | 4.930  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 81355    | 4.776  | ug/L  | 93       |
| 35) Methylcyclohexane          | 6.17  | 83   | 141040   | 4.813  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 75273    | 4.708  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 94696    | 4.835  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene    | 7.06  | 75   | 118124   | 4.876  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 421406   | 48.059 | ug/L  | 99       |
| 42) Toluene                    | 7.42  | 91   | 339851   | 4.928  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 90116    | 4.938  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 49165    | 4.717  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.01  | 164  | 60821    | 4.969  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.18  | 43   | 286220   | 46.854 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.28  | 129  | 61653    | 4.973  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 48000    | 4.985  | ug/L  | 97       |
| 51) Chlorobenzene              | 8.92  | 112  | 211845   | 4.950  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 381173   | 4.922  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 142227   | 4.930  | ug/L  | 99       |
| 54) o-xylene                   | 9.58  | 106  | 140294   | 4.980  | ug/L  | 98       |
| 55) Styrene                    | 9.60  | 104  | 229679   | 4.966  | ug/L  | 97       |
| 56) Isopropylbenzene           | 9.97  | 105  | 368977   | 4.996  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 61444    | 5.072  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 43392    | 4.880  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 30219    | 5.057  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 161725   | 5.055  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 158533   | 4.970  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 145896   | 5.053  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 9673     | 4.243  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.68 | 180  | 117616   | 4.980  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.30 | 180  | 100656   | 5.070  | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 170795   | 4.887  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 86975    | 5.066  | ug/L  | 99       |

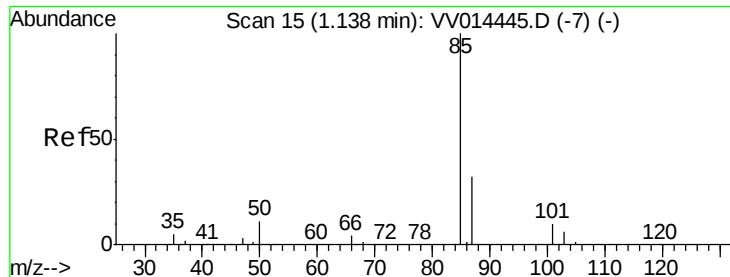
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.884 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampled :

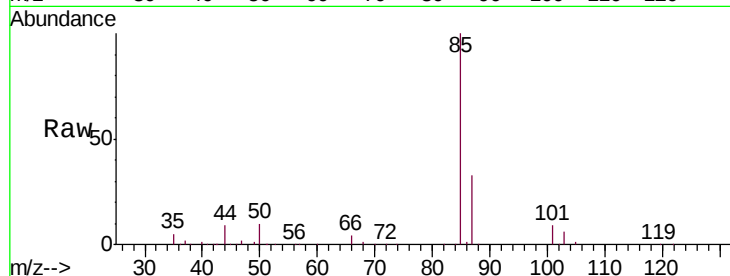
VSTD00555

Tgt Ion: 85 Resp: 89259

Ion Ratio Lower Upper

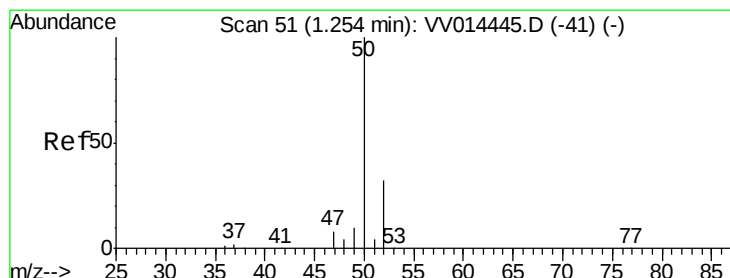
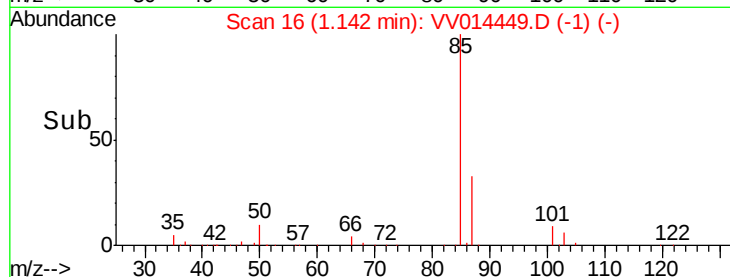
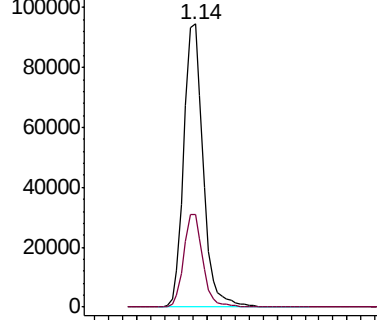
85 100

87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.203 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014449.D

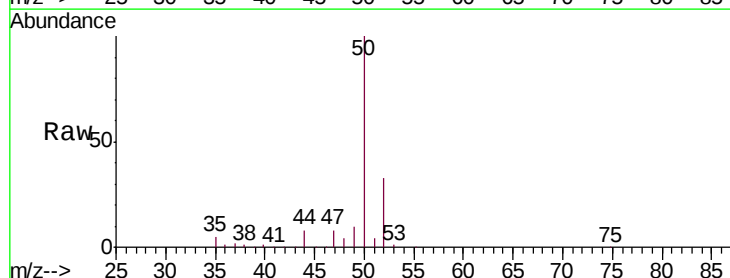
Acq: 31 Jan 2020 13:14

Tgt Ion: 50 Resp: 73149

Ion Ratio Lower Upper

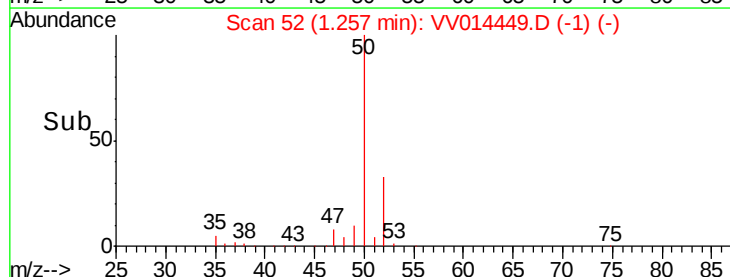
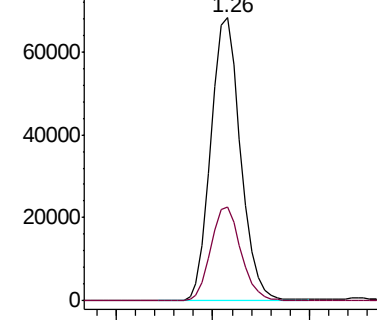
50 100

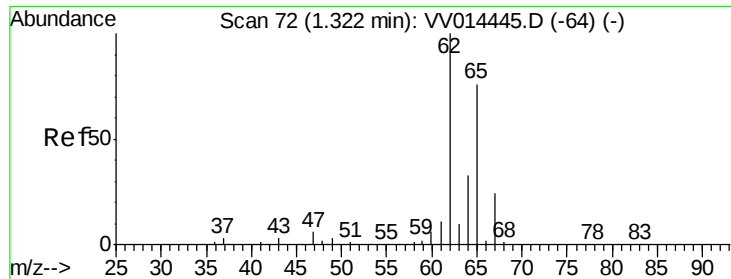
52 33.2 23.4 43.6



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.964 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

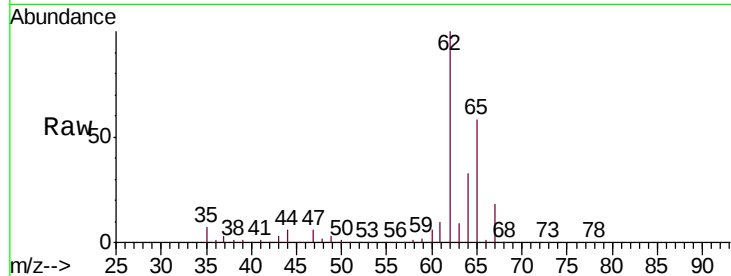
VSTD00555

Tgt Ion: 62 Resp: 70009

Ion Ratio Lower Upper

62 100

64 32.9 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

80000

60000

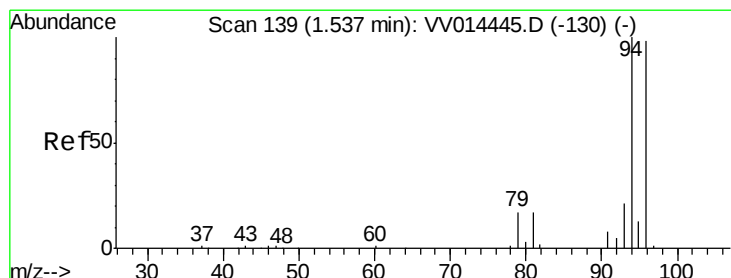
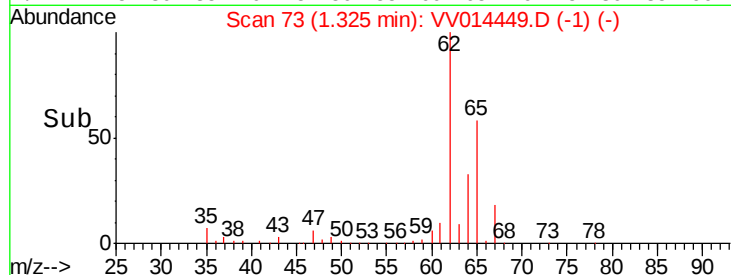
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 6.174 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014449.D

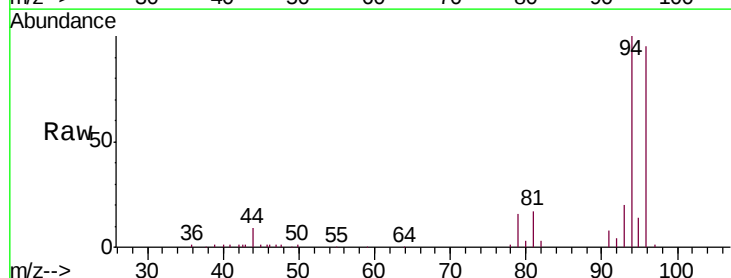
Acq: 31 Jan 2020 13:14

Tgt Ion: 94 Resp: 29080

Ion Ratio Lower Upper

94 100

96 94.9 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

25000

20000

15000

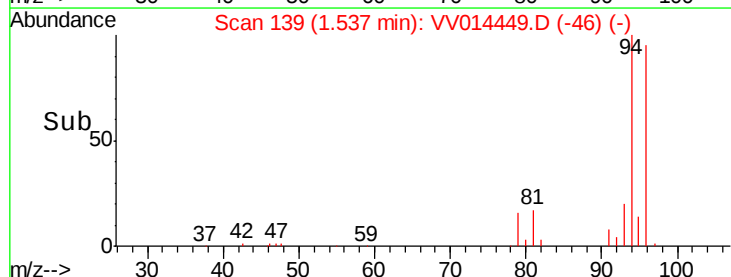
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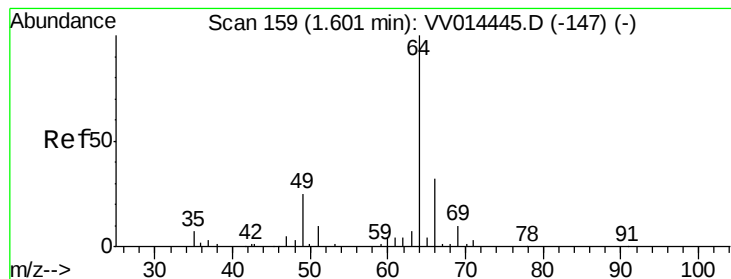
5000

0

1.50 1.55 1.60 1.65

Time-->





#8

Chloroethane

Concen: 4.996 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

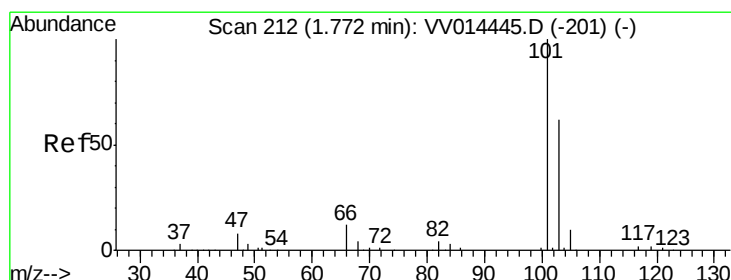
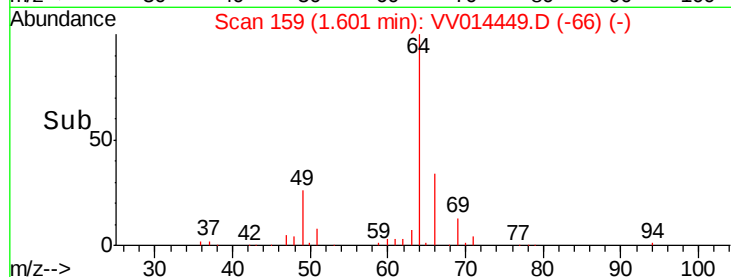
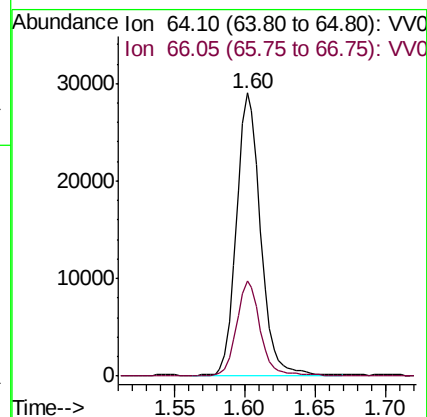
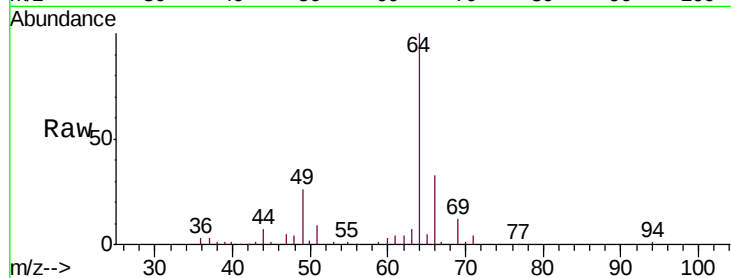
VSTD00555

Tgt Ion: 64 Resp: 35162

Ion Ratio Lower Upper

64 100

66 33.4 21.7 40.3



#9

Trichlorofluoromethane

Concen: 5.083 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014449.D

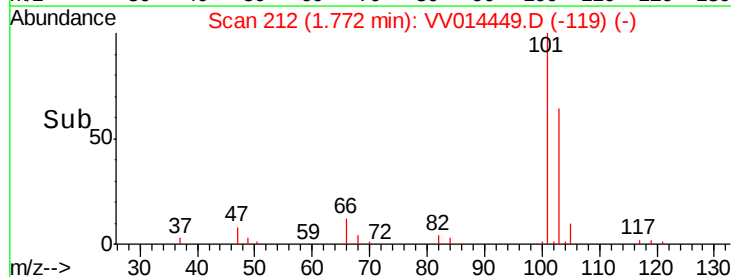
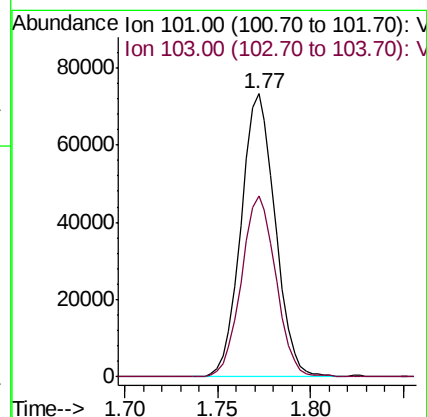
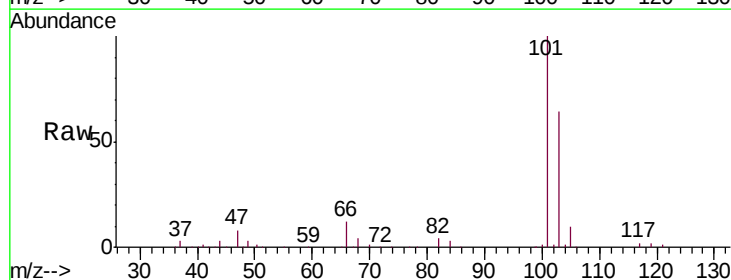
Acq: 31 Jan 2020 13:14

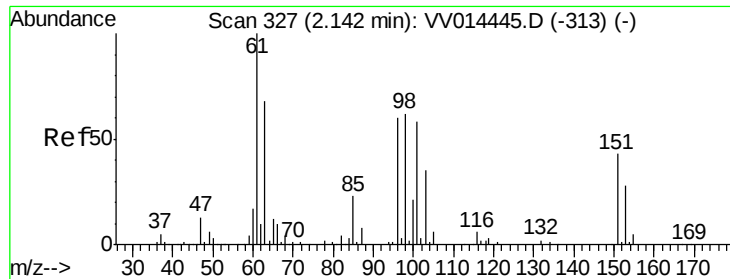
Tgt Ion: 101 Resp: 93533

Ion Ratio Lower Upper

101 100

103 64.7 52.5 78.7





#10

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

Concen: 4.749 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

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VSTD00555

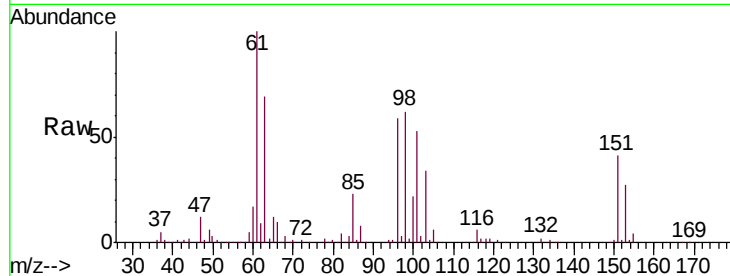
Tgt Ion: 101 Resp: 47224

Ion Ratio Lower Upper

101 100

85 42.8 33.2 49.8

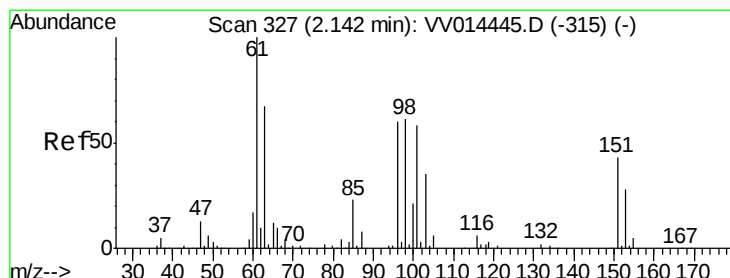
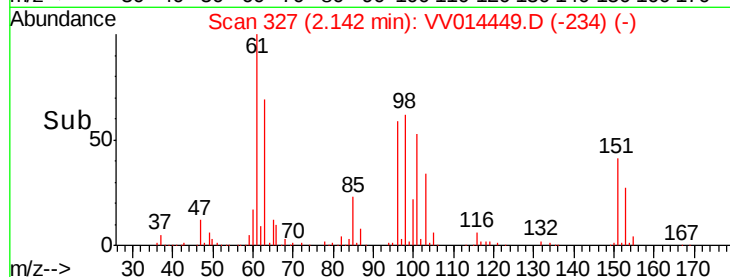
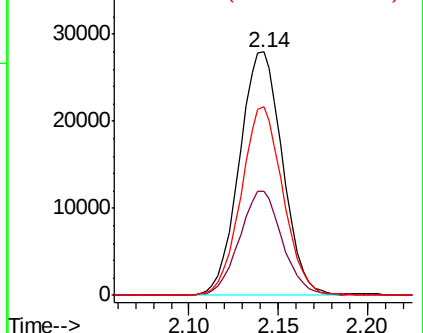
151 75.5 59.6 89.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.788 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

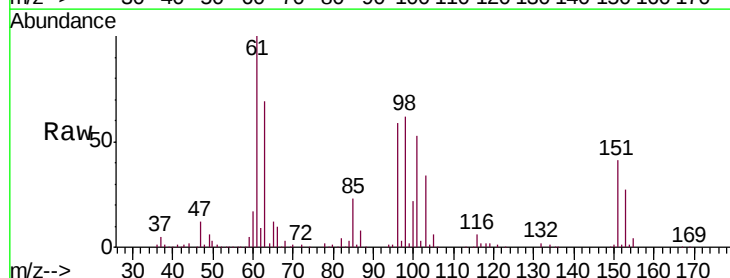
Tgt Ion: 96 Resp: 43535

Ion Ratio Lower Upper

96 100

61 169.3 120.0 223.0

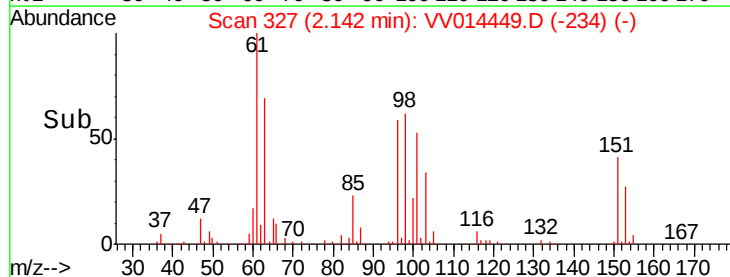
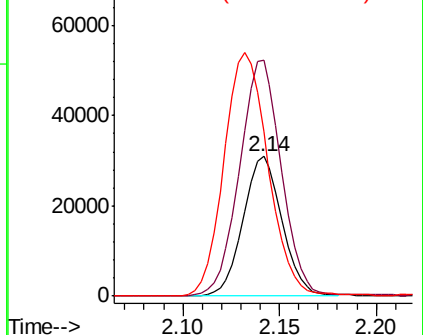
63 117.3 82.4 153.0

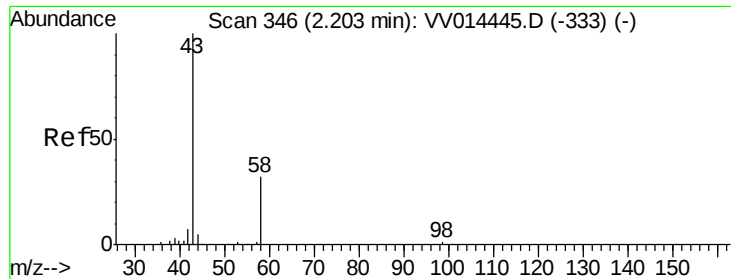


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 34.570 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.01 min

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Instrument :

MSVOA\_V

ClientSampleId :

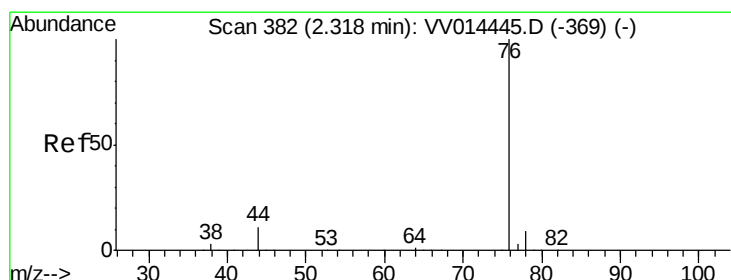
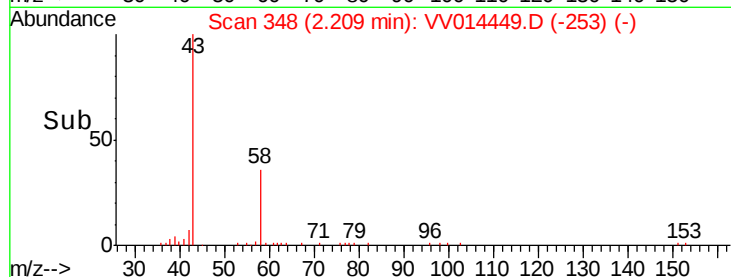
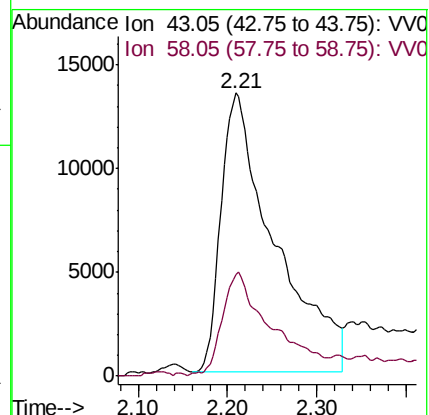
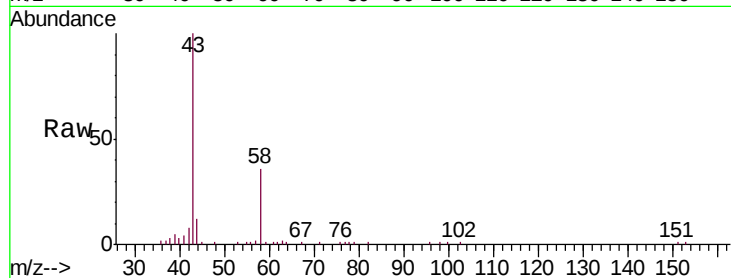
VSTD00555

Tgt Ion: 43 Resp: 55745

Ion Ratio Lower Upper

43 100

58 35.2 0.0 47.0



#14

Carbon disulfide

Concen: 4.719 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014449.D

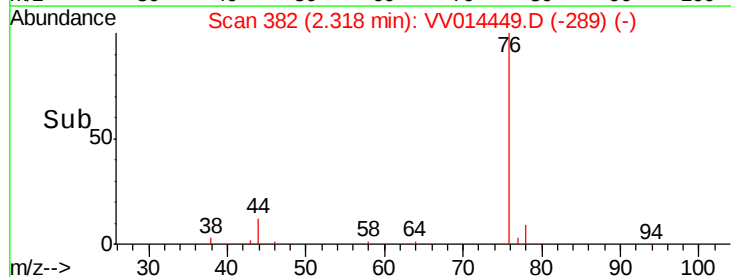
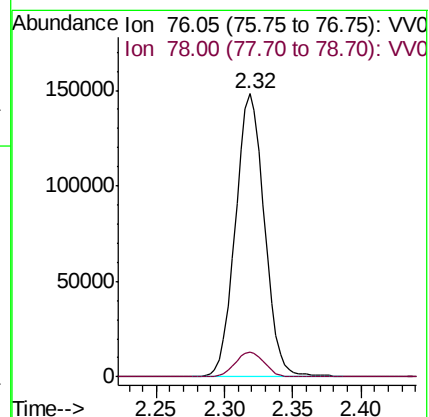
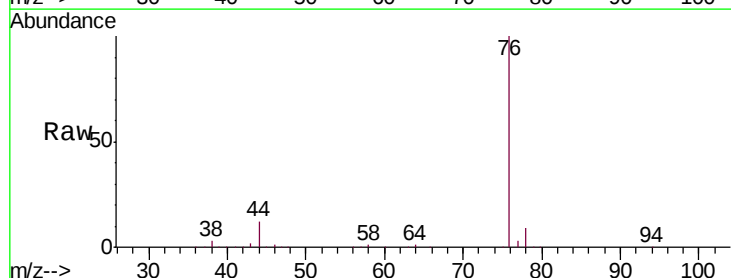
Acq: 31 Jan 2020 13:14

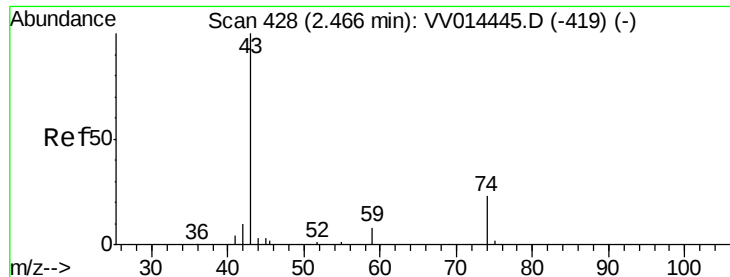
Tgt Ion: 76 Resp: 219133

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0





#15

Methyl Acetate

Concen: 7.120 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

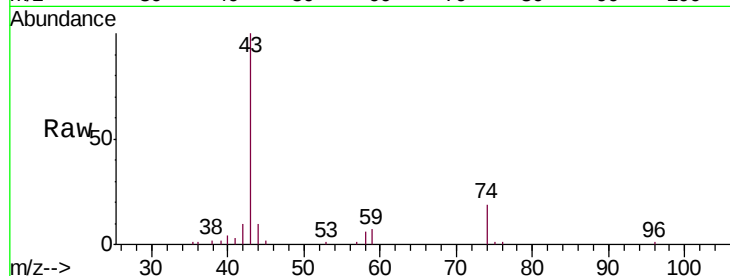
VSTD00555

Tgt Ion: 43 Resp: 29499

Ion Ratio Lower Upper

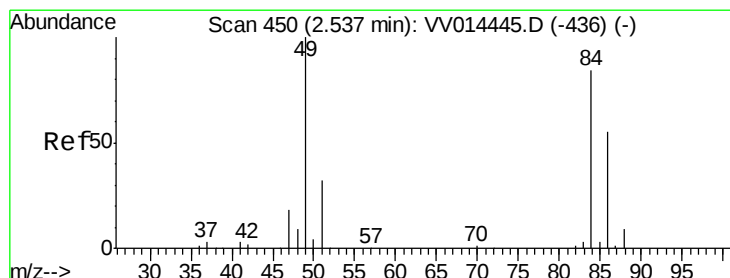
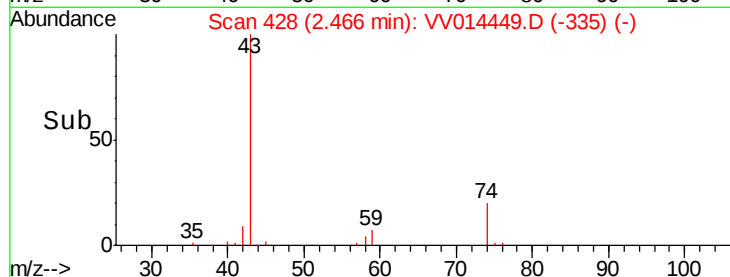
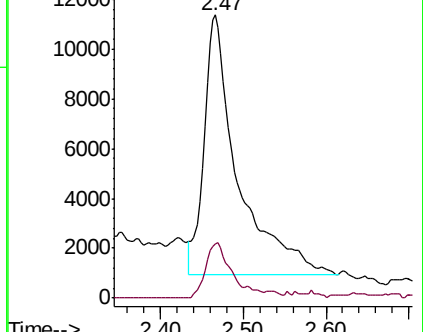
43 100

74 16.9 18.8 28.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 4.604 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

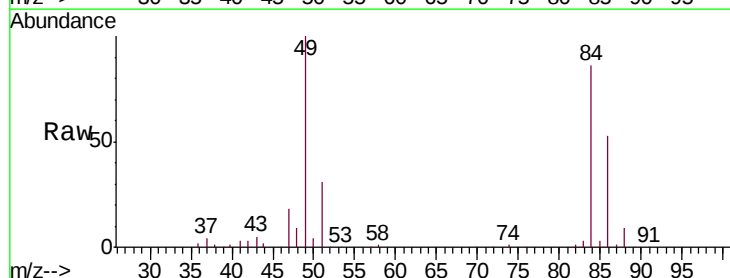
Tgt Ion: 84 Resp: 81450

Ion Ratio Lower Upper

84 100

86 61.8 45.6 84.6

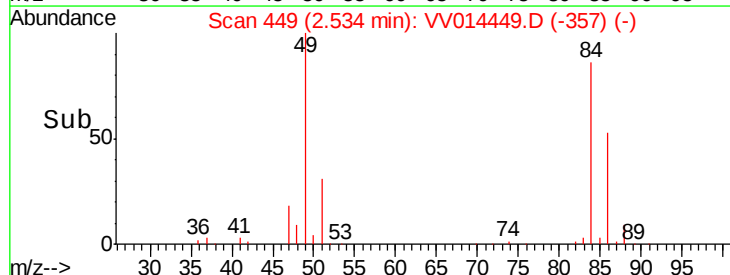
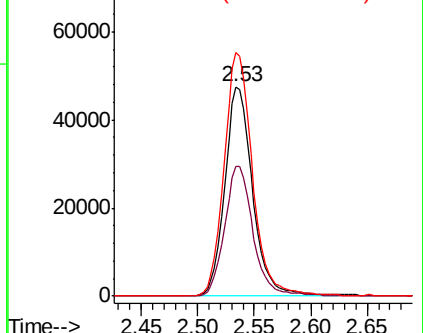
49 116.3 86.1 159.9

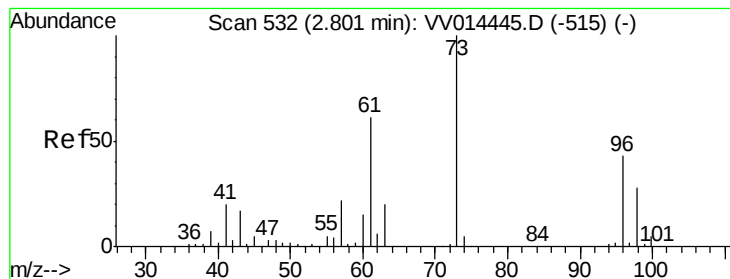


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#17

Methyl tert-butyl Ether

Concen: 4.841 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

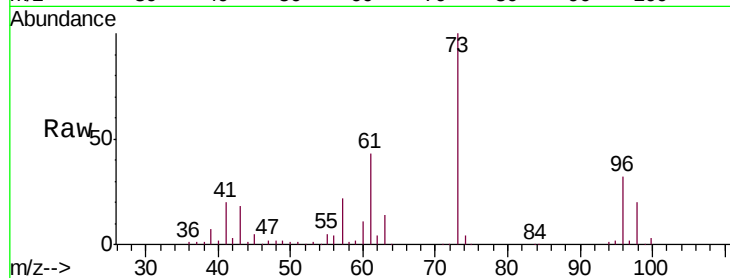
Tgt Ion: 73 Resp: 159988

Ion Ratio Lower Upper

73 100

43 18.2 14.2 21.2

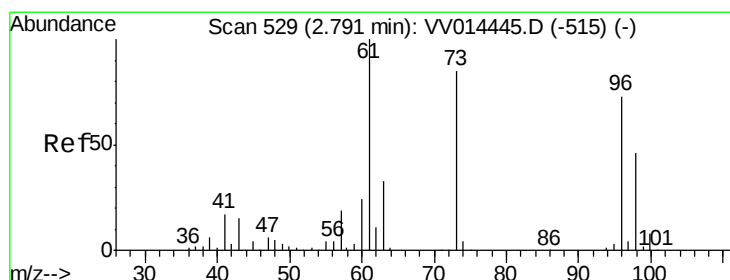
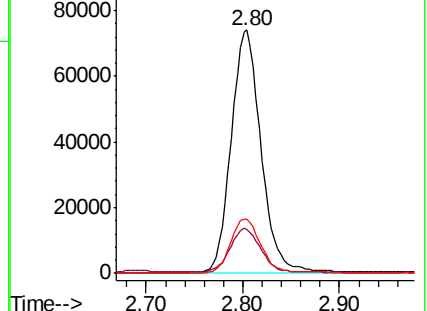
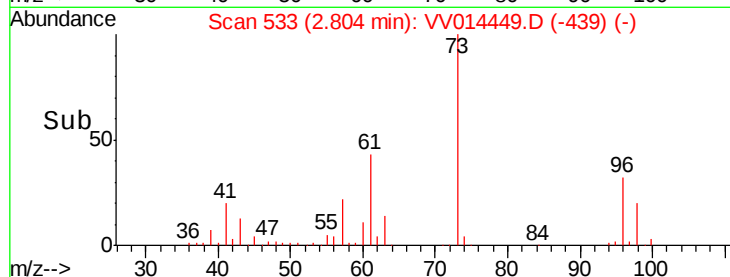
57 22.7 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VV014449.D (-439) (-)

Ion 43.05 (42.75 to 43.75): VV014449.D (-439) (-)

Ion 57.10 (56.80 to 57.80): VV014449.D (-439) (-)



#18

trans-1,2-Dichloroethene

Concen: 4.881 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

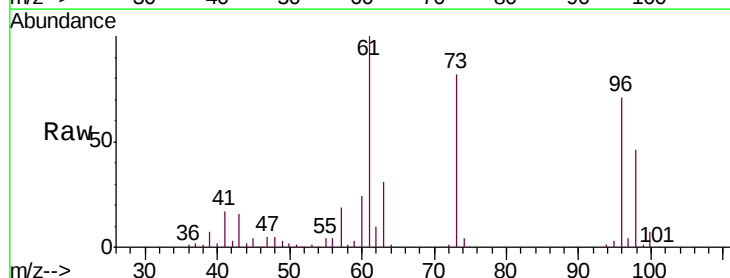
Tgt Ion: 96 Resp: 77218

Ion Ratio Lower Upper

96 100

61 141.8 99.9 185.5

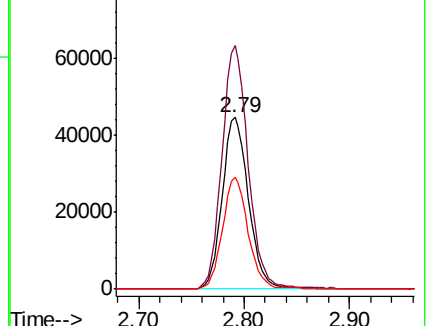
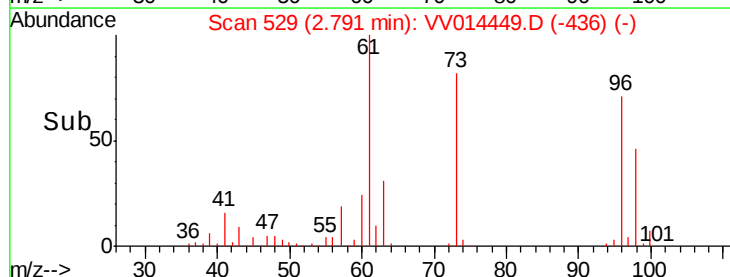
98 65.4 45.4 84.4

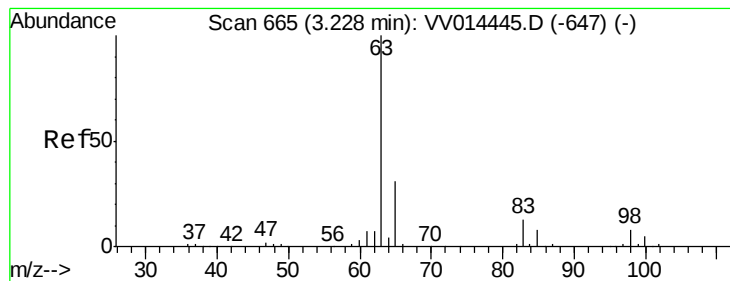


Abundance Ion 96.00 (95.70 to 96.70): VV014449.D (-436) (-)

Ion 61.05 (60.75 to 61.75): VV014449.D (-436) (-)

Ion 97.95 (97.65 to 98.65): VV014449.D (-436) (-)





#19

1,1-Dichloroethane

Concen: 4.817 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

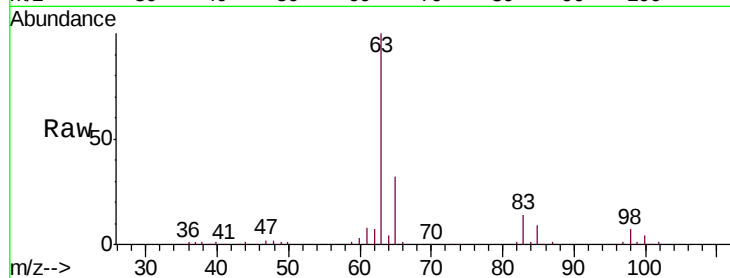
Tgt Ion: 63 Resp: 138580

Ion Ratio Lower Upper

63 100

65 32.2 22.4 41.6

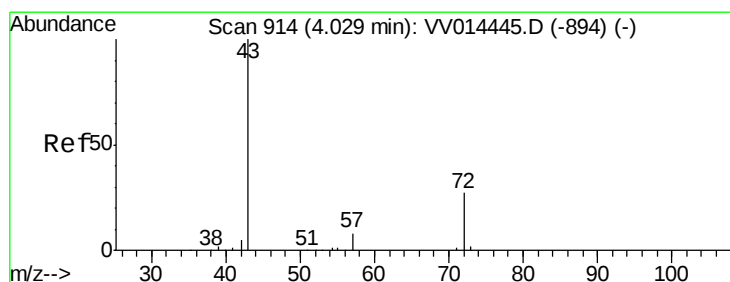
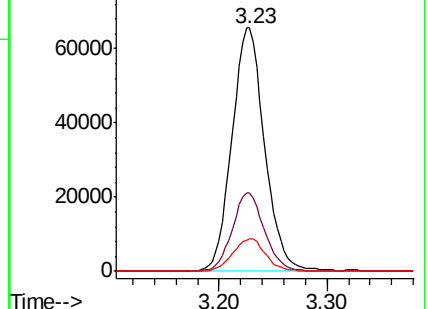
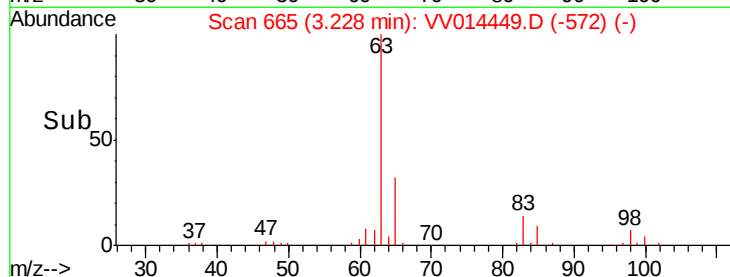
83 13.5 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV014449.D (-647) (-)

Ion 65.10 (64.80 to 65.80): VV014449.D (-647) (-)

Ion 83.05 (82.75 to 83.75): VV014449.D (-647) (-)



#21

2-Butanone

Concen: 44.060 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.00 min

Lab File: VV014449.D

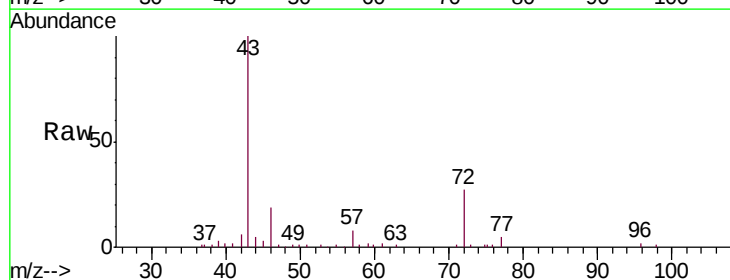
Acq: 31 Jan 2020 13:14

Tgt Ion: 43 Resp: 129949

Ion Ratio Lower Upper

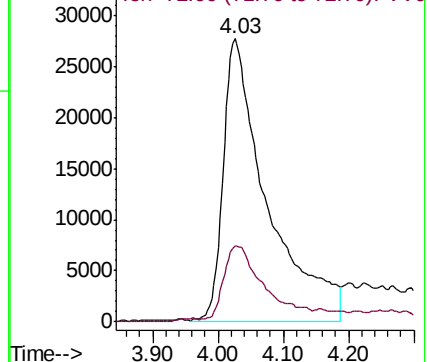
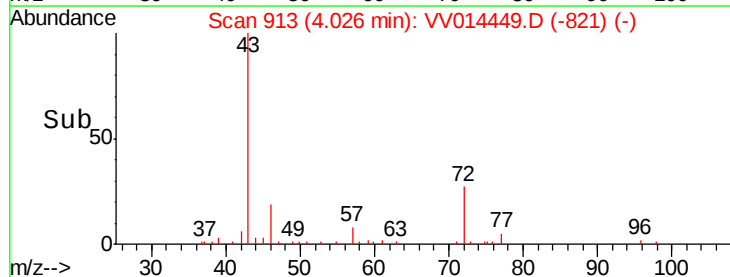
43 100

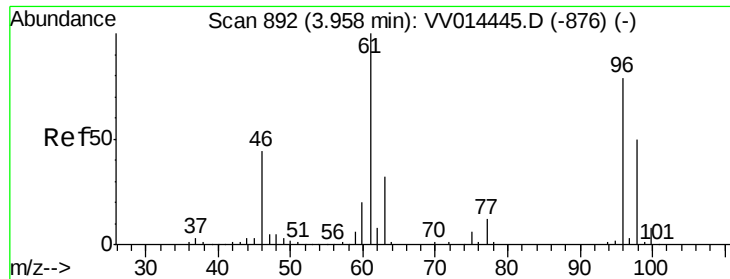
72 22.7 9.2 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV014449.D (-821) (-)

Ion 72.00 (71.70 to 72.70): VV014449.D (-821) (-)



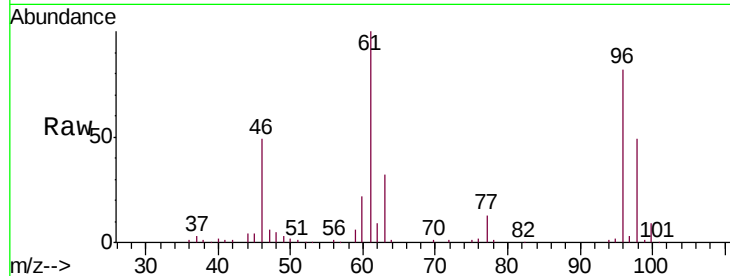


#22

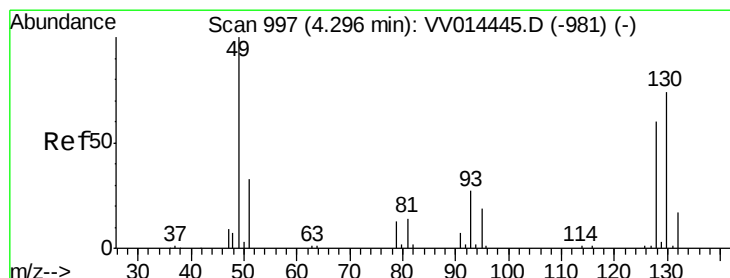
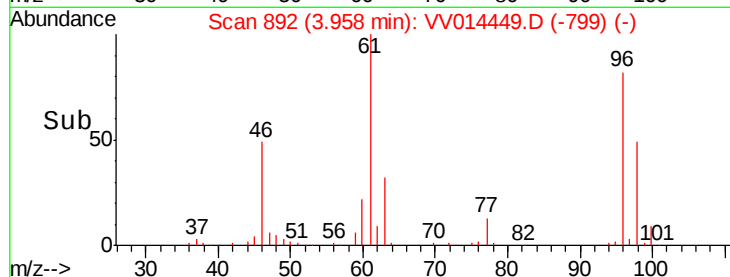
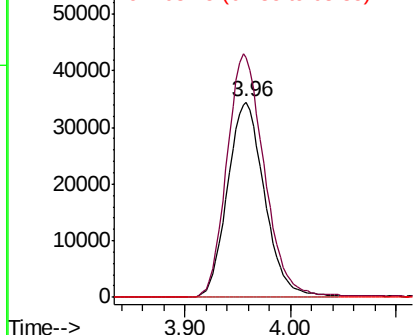
cis-1,2-Dichloroethene  
 Concen: 4.916 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Tgt Ion: 96 Resp: 84072  
 Ion Ratio Lower Upper  
 96 100  
 61 122.6 88.5 164.4  
 68 0.0 0.0 0.0



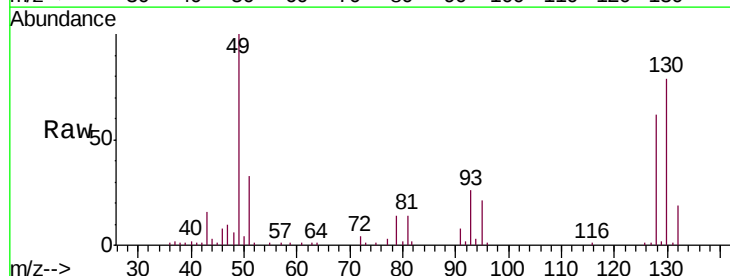
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



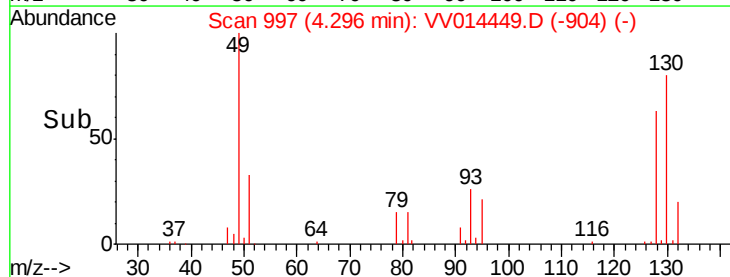
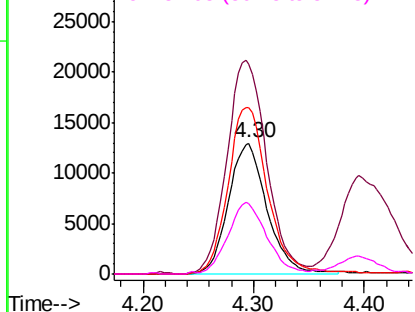
#23

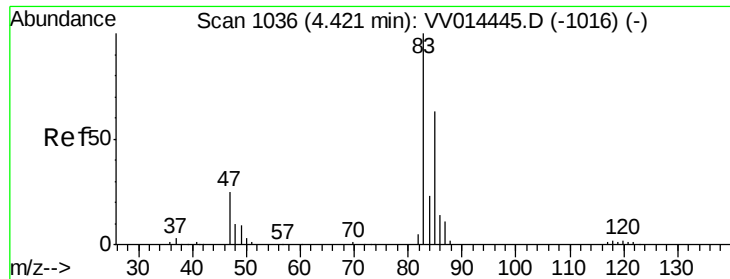
Bromochloromethane  
 Concen: 4.943 ug/L  
 RT: 4.30 min Scan# 997  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Tgt Ion: 128 Resp: 31446  
 Ion Ratio Lower Upper  
 128 100  
 49 161.0 114.9 213.5  
 130 127.1 85.7 159.1  
 51 53.8 42.6 64.0



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

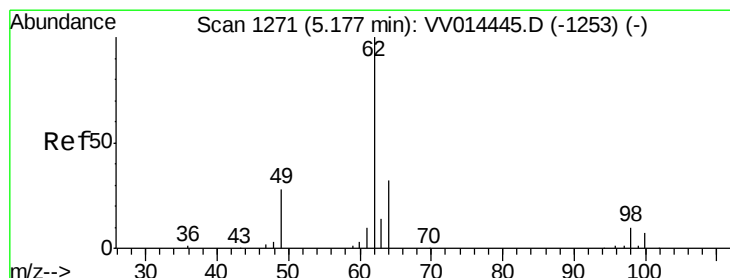
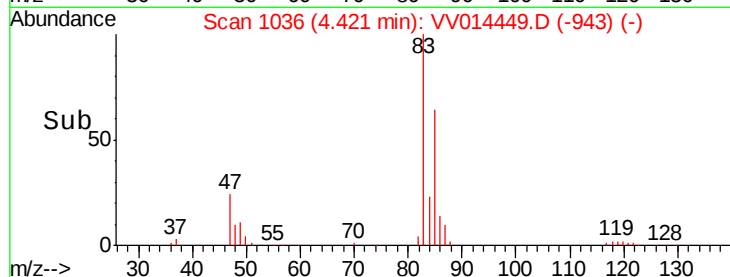
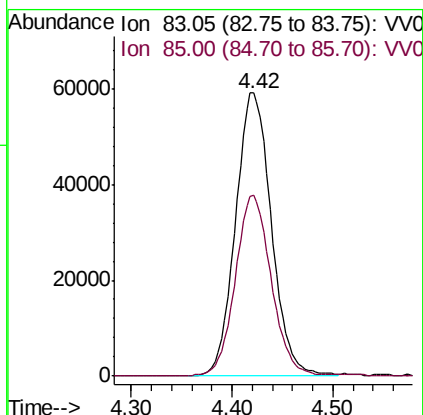
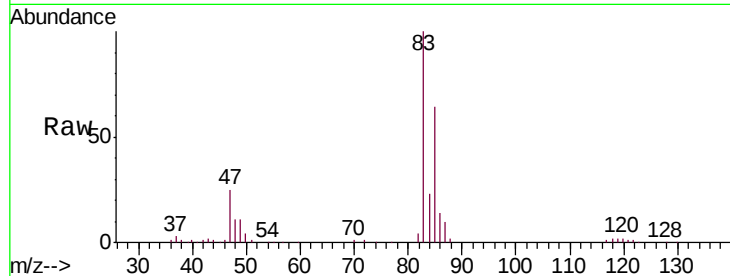




#25  
 Chloroform  
 Concen: 5.050 ug/L  
 RT: 4.42 min Scan# 1036  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

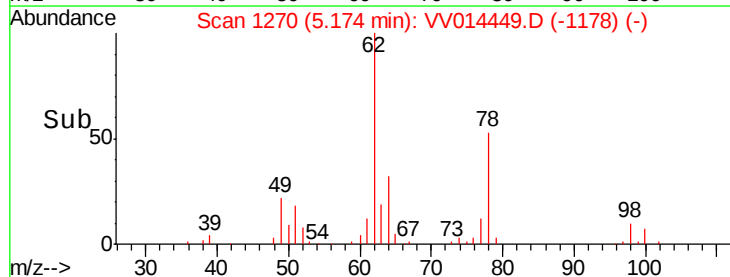
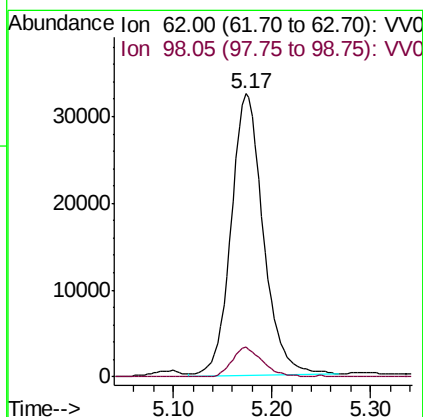
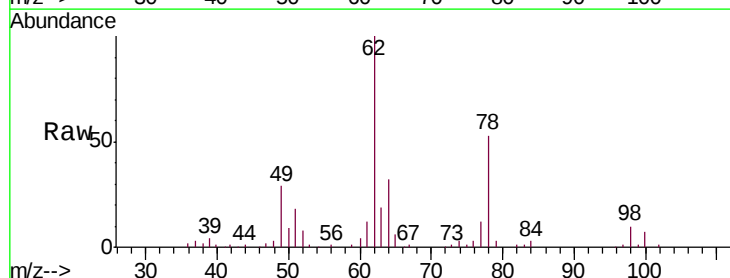
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

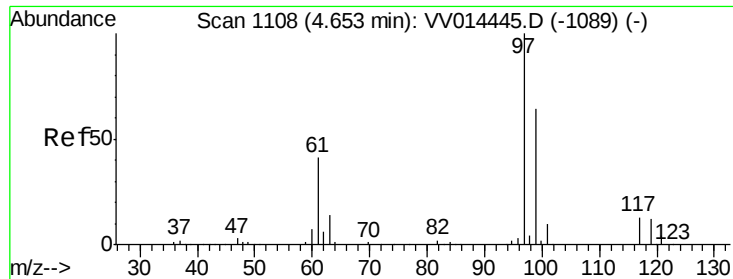
Tgt Ion: 83 Resp: 145918  
 Ion Ratio Lower Upper  
 83 100  
 85 64.1 45.9 85.3



#27  
 1,2-Dichloroethane  
 Concen: 4.708 ug/L  
 RT: 5.17 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Tgt Ion: 62 Resp: 73151  
 Ion Ratio Lower Upper  
 62 100  
 98 10.5 8.5 12.7

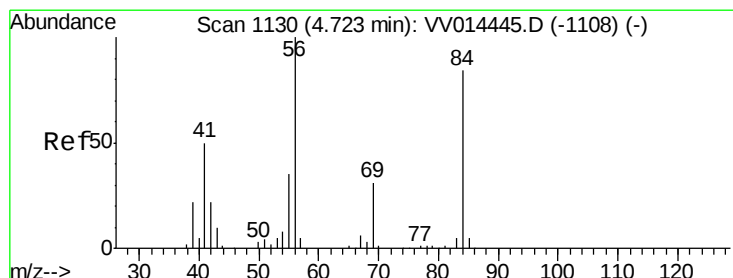
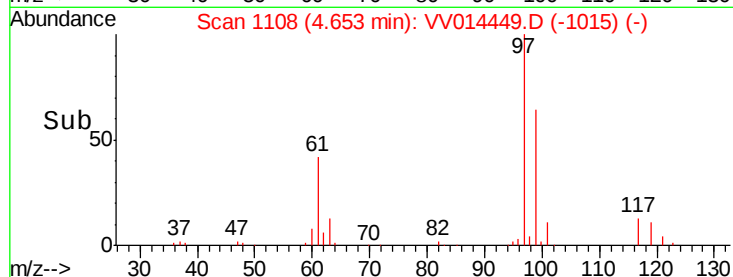
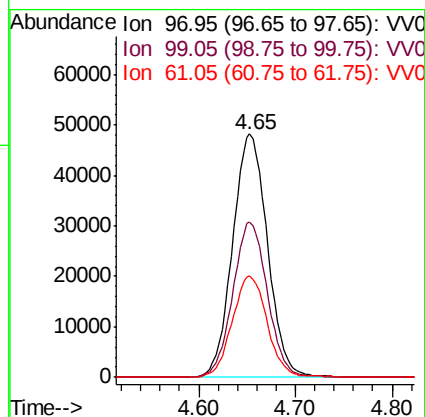
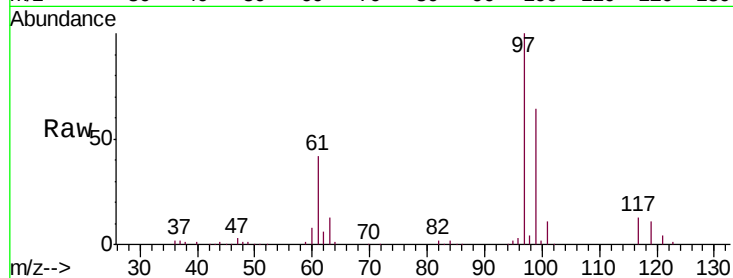




#29  
 1,1,1-Trichloroethane  
 Concen: 4.919 ug/L  
 RT: 4.65 min Scan# 1108  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

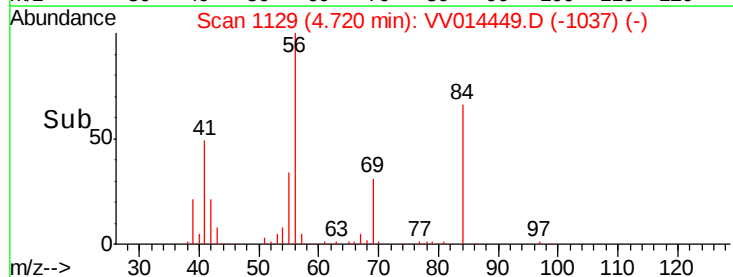
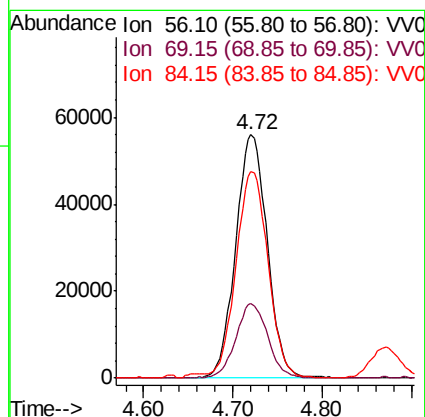
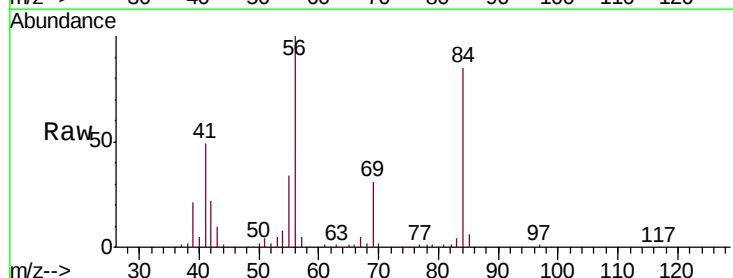
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

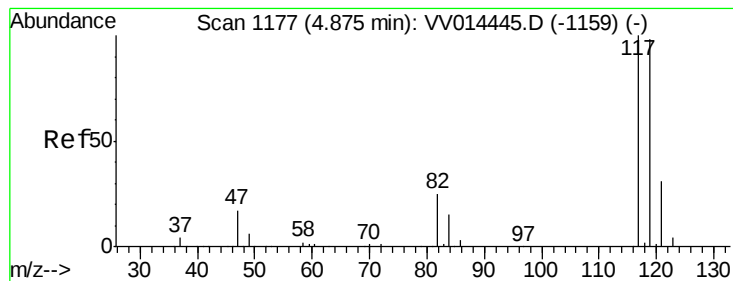
Tgt Ion: 97 Resp: 120785  
 Ion Ratio Lower Upper  
 97 100  
 99 63.3 51.1 76.7  
 61 42.0 34.2 51.2



#30  
 Cyclohexane  
 Concen: 4.863 ug/L  
 RT: 4.72 min Scan# 1129  
 Delta R.T. -0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Tgt Ion: 56 Resp: 137777  
 Ion Ratio Lower Upper  
 56 100  
 69 30.8 24.1 36.1  
 84 86.6 68.8 103.2





#31

Carbon tetrachloride

Concen: 4.823 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

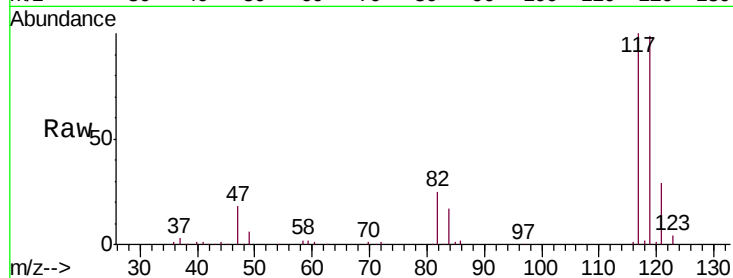
VSTD00555

Tgt Ion:117 Resp: 100713

Ion Ratio Lower Upper

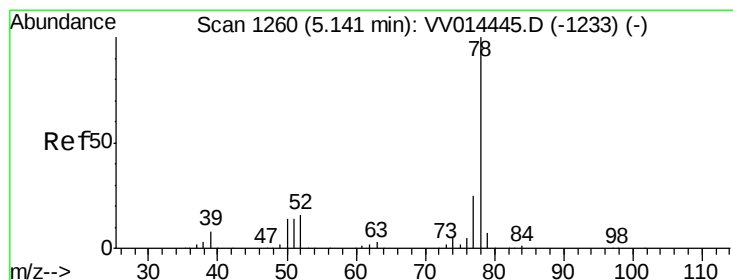
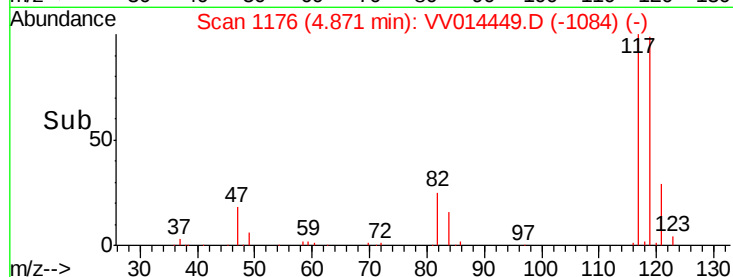
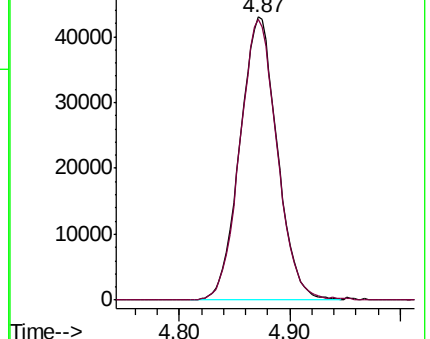
117 100

119 98.8 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.930 ug/L

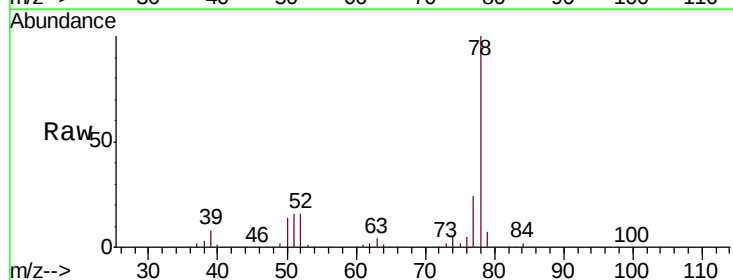
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

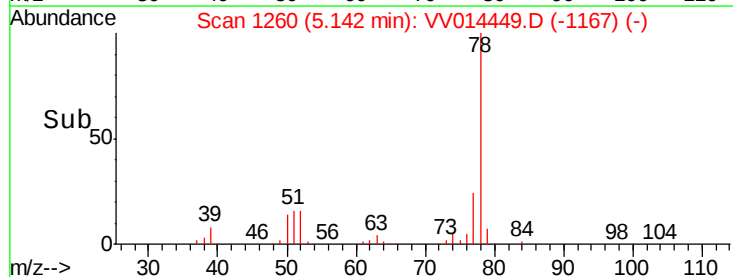
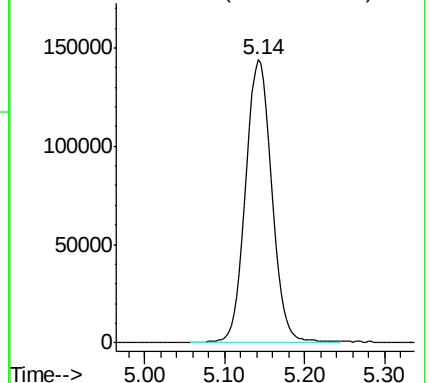
Lab File: VV014449.D

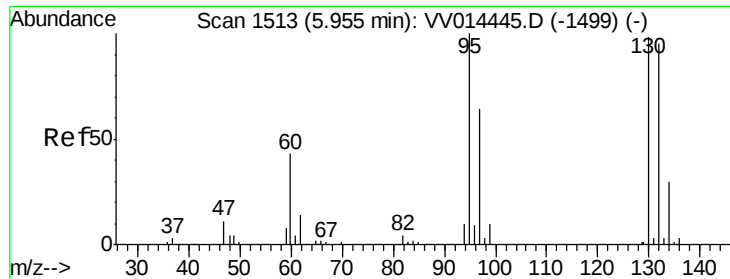
Acq: 31 Jan 2020 13:14

Tgt Ion: 78 Resp: 319790



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.776 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

Tgt Ion: 95 Resp: 81355

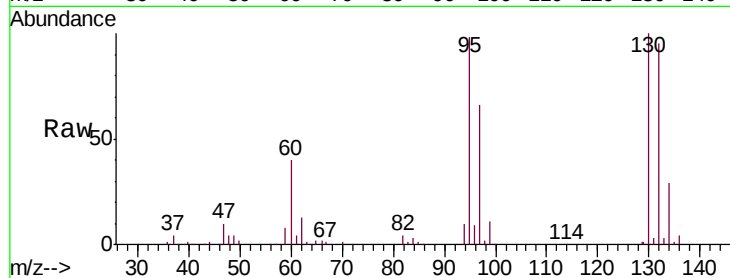
Ion Ratio Lower Upper

95 100

97 67.2 43.6 81.0

132 96.7 63.3 117.7

130 102.3 66.0 122.6

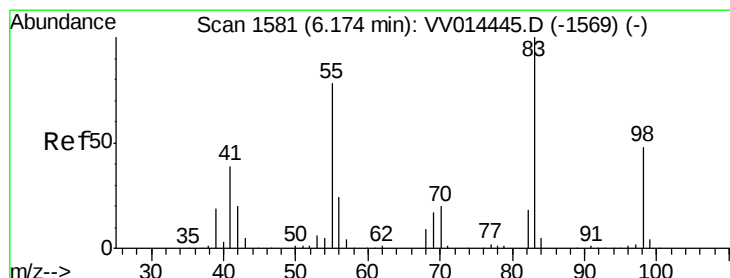
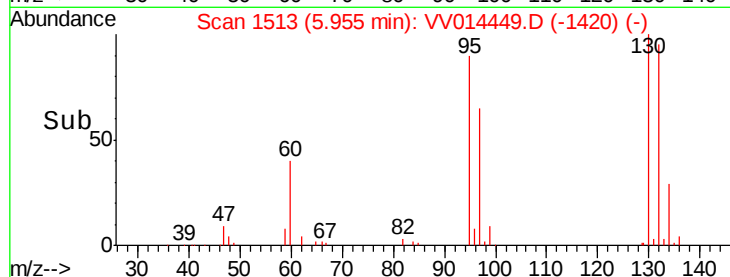
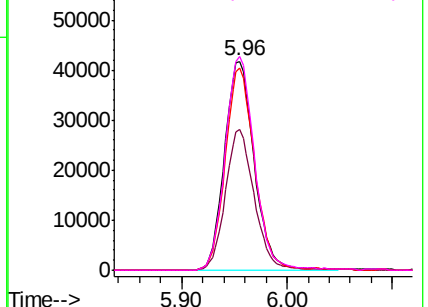


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 4.813 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

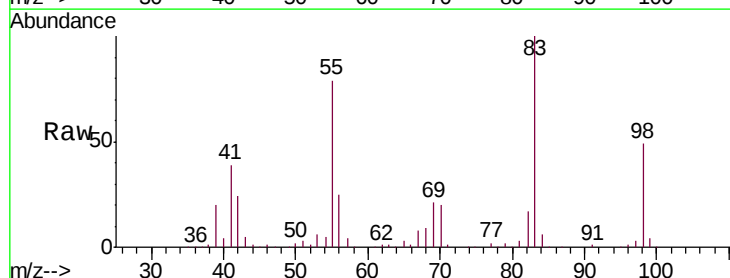
Tgt Ion: 83 Resp: 141040

Ion Ratio Lower Upper

83 100

55 76.9 61.3 91.9

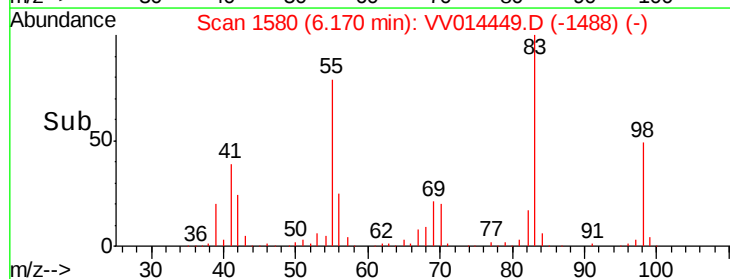
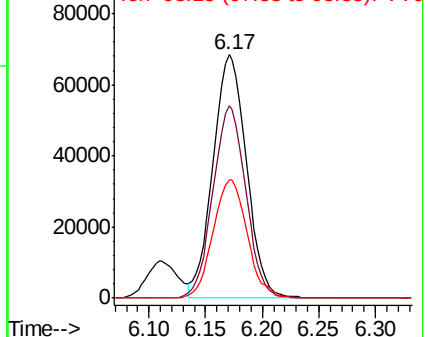
98 49.4 37.5 56.3

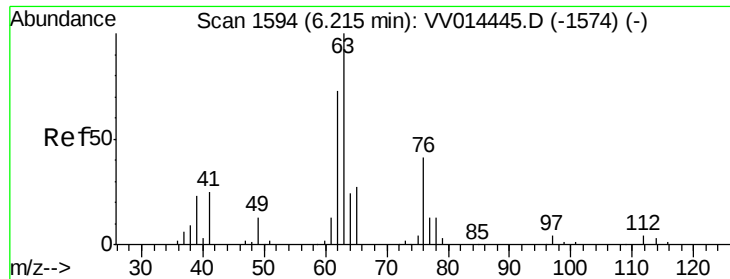


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

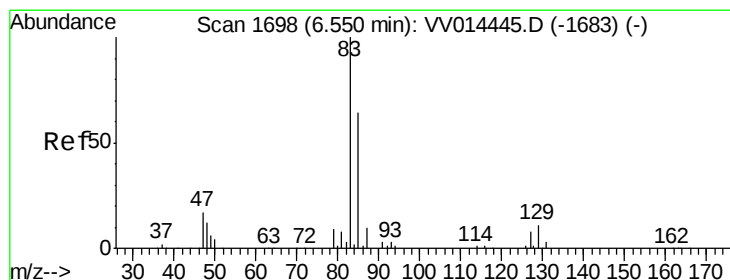
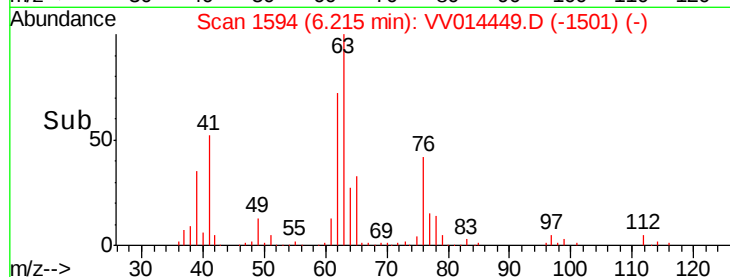
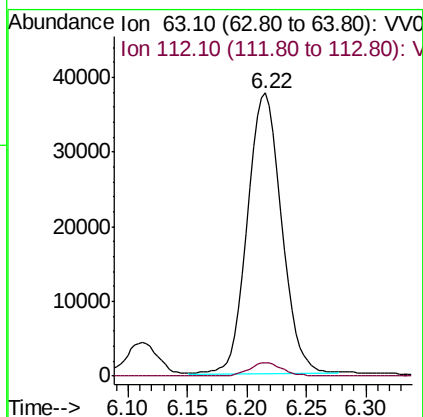
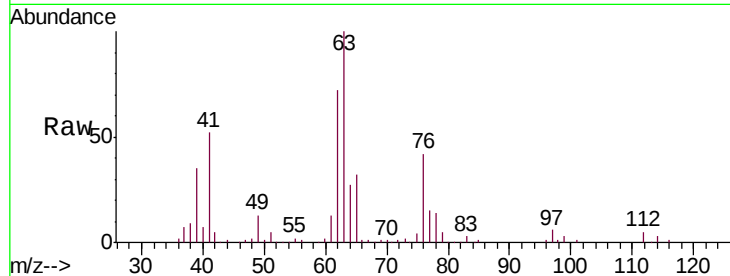




#37  
 1,2-Dichloropropane  
 Concen: 4.708 ug/L  
 RT: 6.22 min Scan# 1594  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

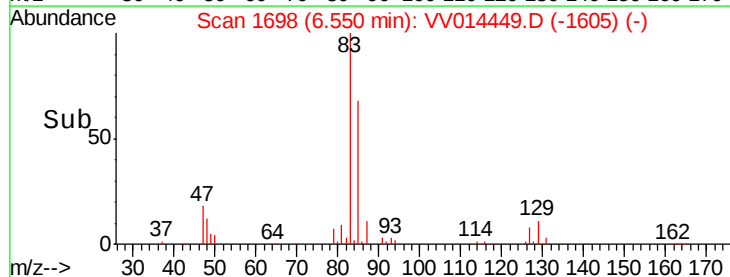
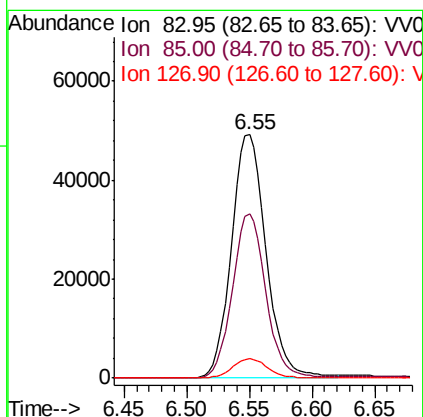
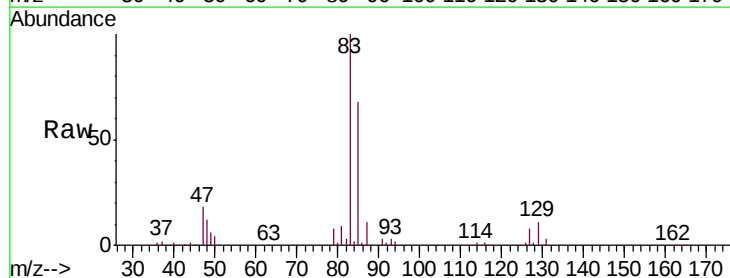
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

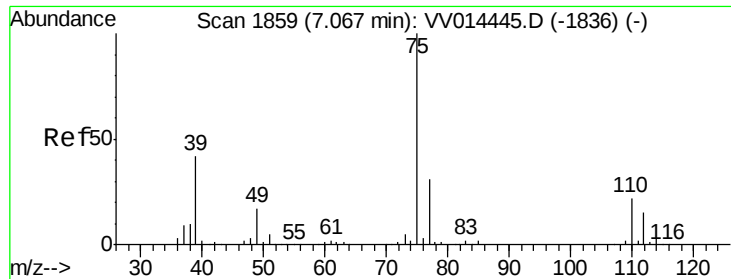
Tgt Ion: 63 Resp: 75273  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.5 5.3



#38  
 Bromodichloromethane  
 Concen: 4.835 ug/L  
 RT: 6.55 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Tgt Ion: 83 Resp: 94696  
 Ion Ratio Lower Upper  
 83 100  
 85 67.6 44.5 82.7  
 127 7.9 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 4.876 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

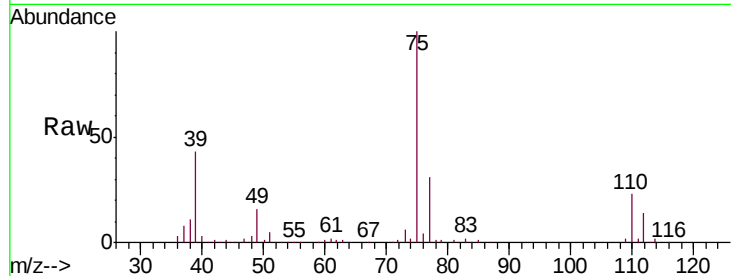
VSTD00555

Tgt Ion: 75 Resp: 118124

Ion Ratio Lower Upper

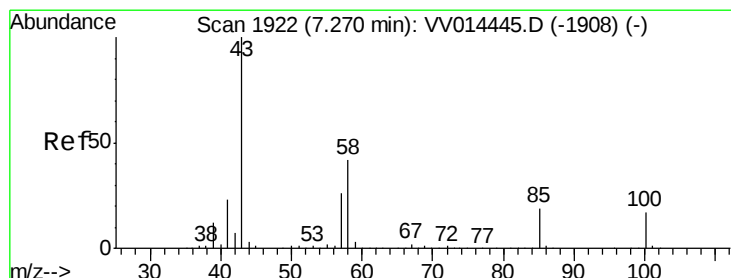
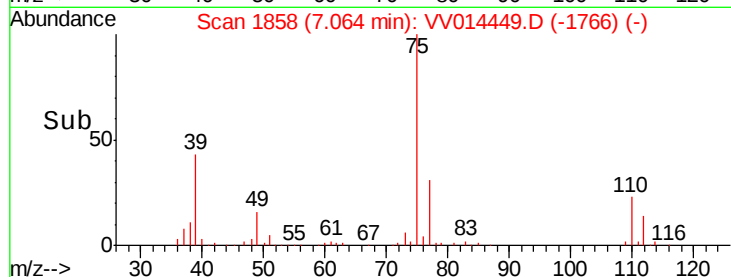
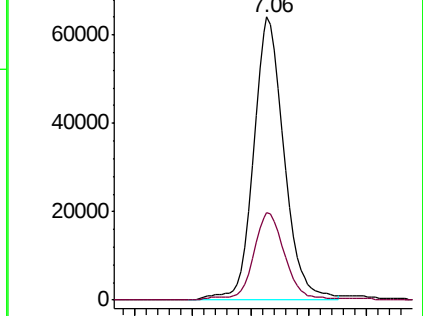
75 100

77 30.7 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 48.059 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

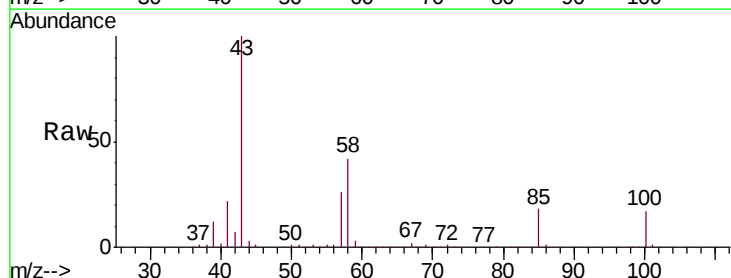
Tgt Ion: 43 Resp: 421406

Ion Ratio Lower Upper

43 100

58 42.2 33.1 49.7

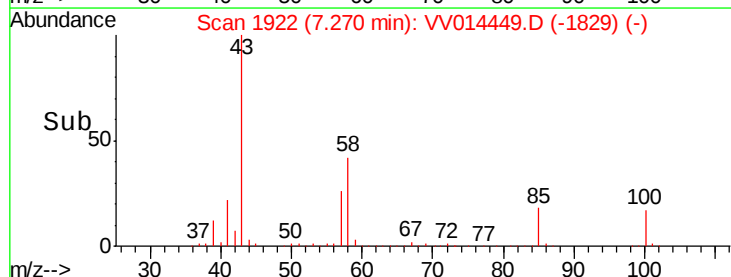
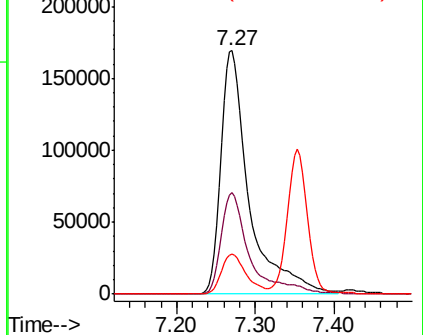
100 14.5 12.1 18.1

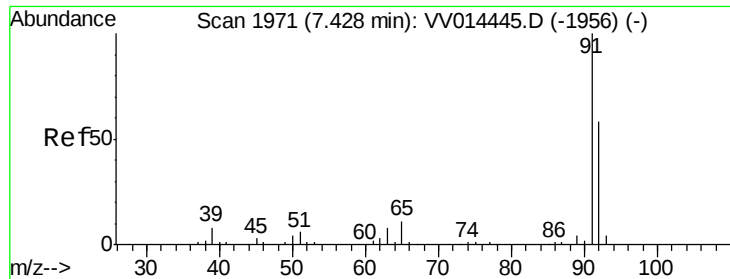


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 4.928 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

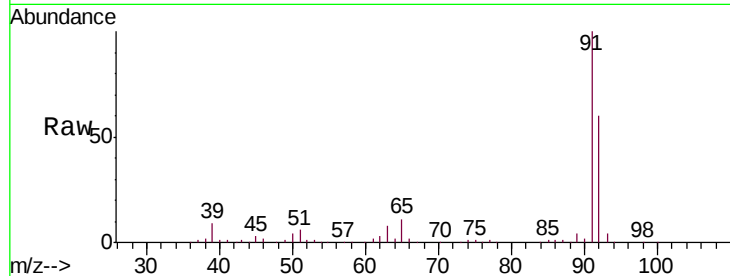
VSTD00555

Tgt Ion: 91 Resp: 339851

Ion Ratio Lower Upper

91 100

92 60.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.42

200000

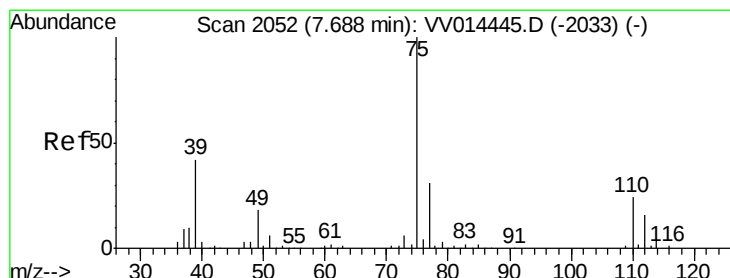
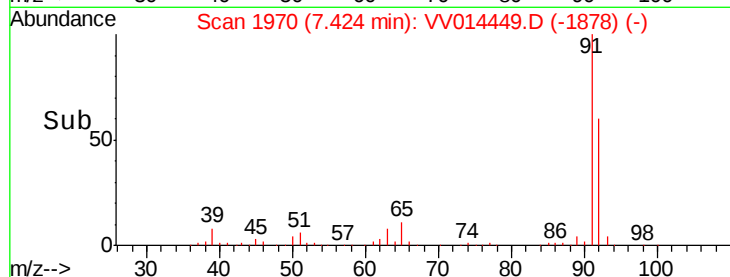
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.938 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014449.D

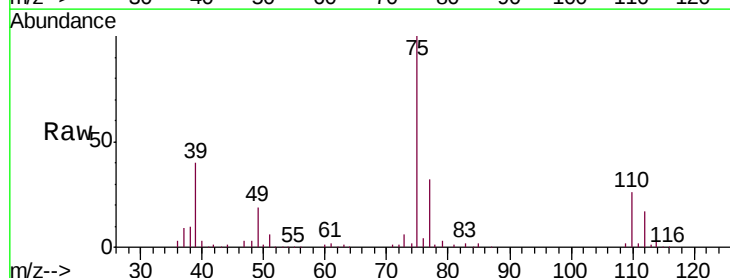
Acq: 31 Jan 2020 13:14

Tgt Ion: 75 Resp: 90116

Ion Ratio Lower Upper

75 100

77 31.7 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

50000

40000

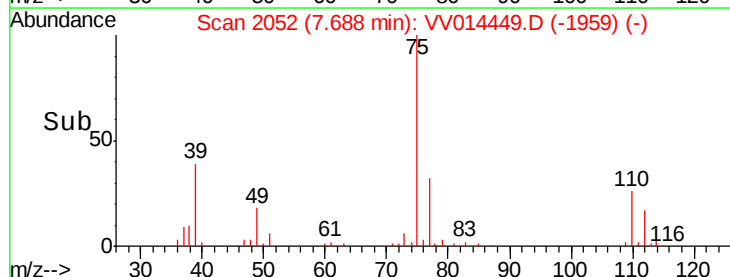
30000

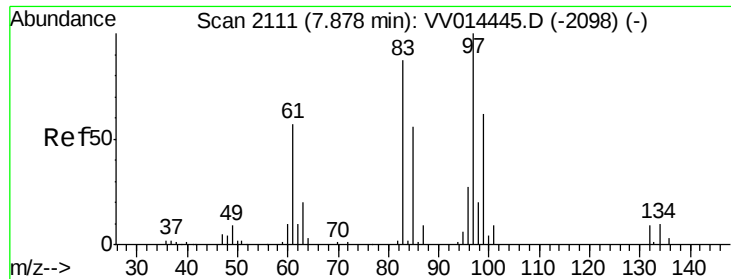
20000

10000

0

Time-->

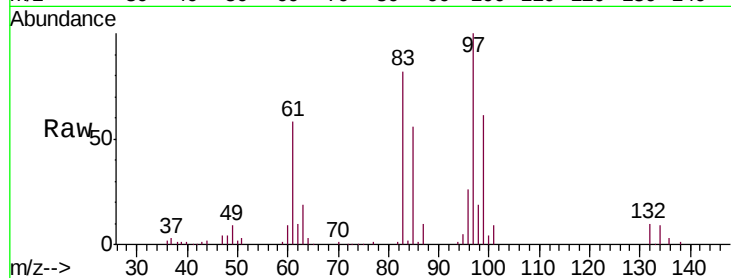




#45  
 1,1,2-Trichloroethane  
 Concen: 4.717 ug/L  
 RT: 7.88 min Scan# 2111  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 49165 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.1  | 42.5  | 78.9  |
| 83       | 82.4  | 59.8  | 111.0 |
| 85       | 56.0  | 38.4  | 71.4  |



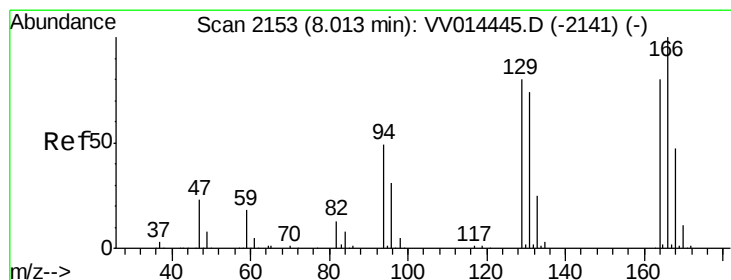
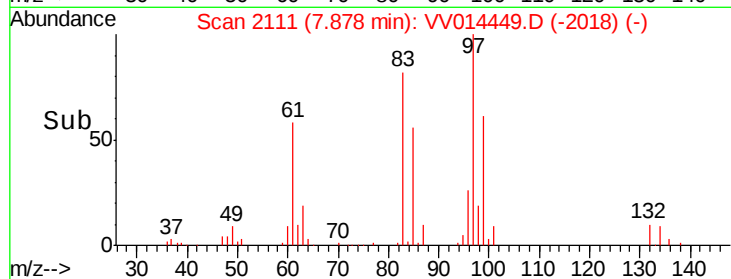
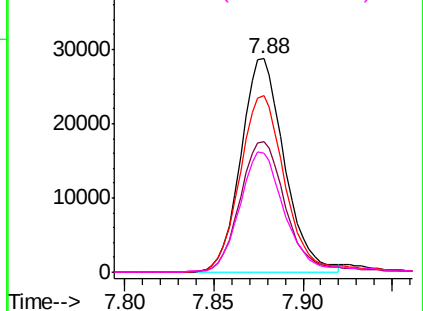
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

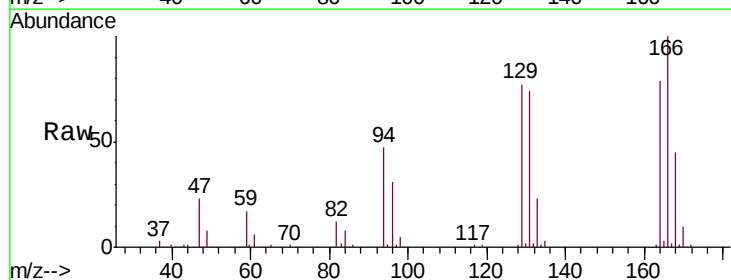
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47  
 Tetrachloroethene  
 Concen: 4.969 ug/L  
 RT: 8.01 min Scan# 2153  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 60821 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.3  | 69.9  | 129.7 |
| 131      | 94.5  | 67.5  | 125.3 |
| 166      | 127.1 | 90.6  | 168.3 |



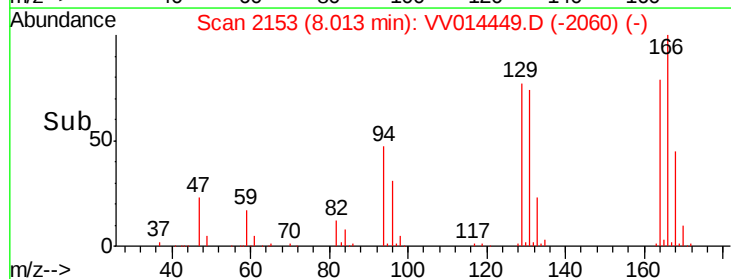
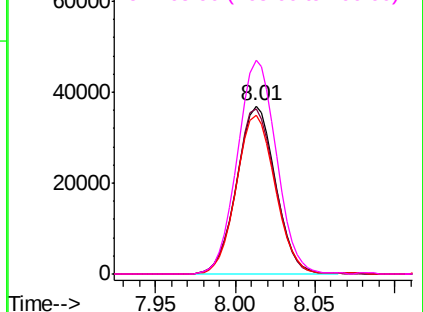
Abundance

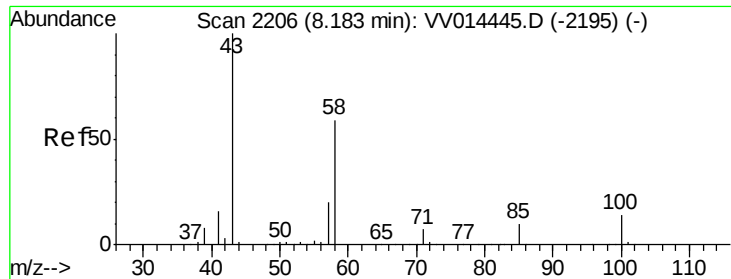
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

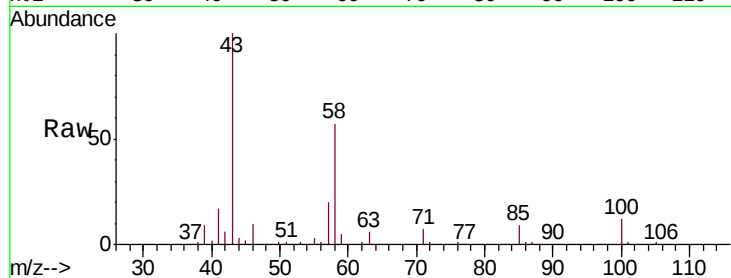




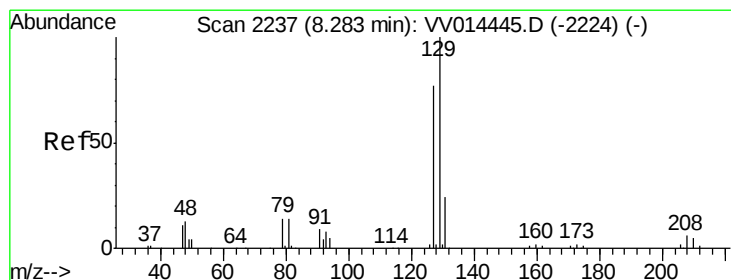
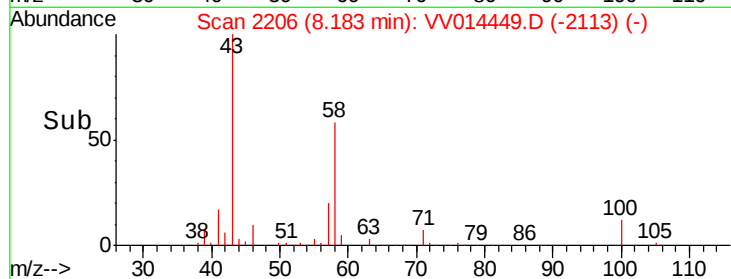
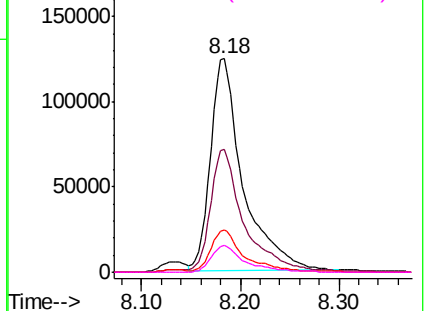
#48  
2-Hexanone  
Concen: 46.854 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00555

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 286220 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.5  | 45.8  | 68.6   |
| 57       | 20.7  | 15.4  | 23.0   |
| 100      | 13.2  | 9.8   | 14.8   |

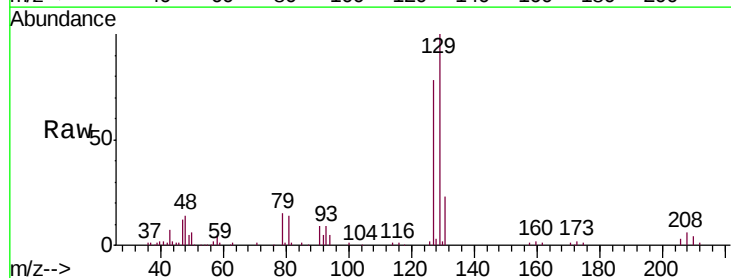


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

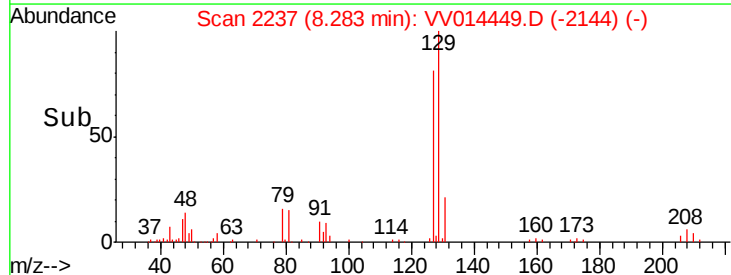
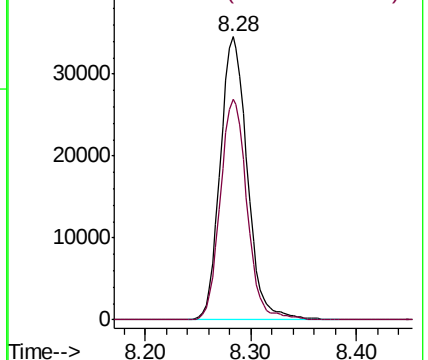


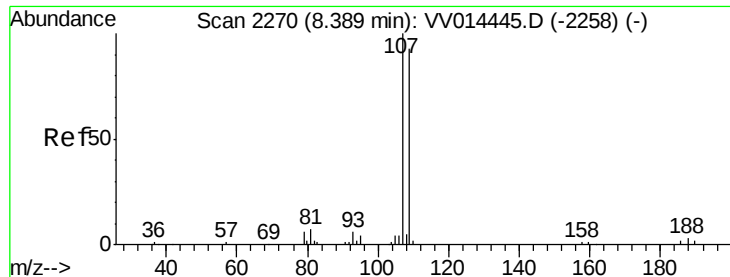
#49  
Dibromochloromethane  
Concen: 4.973 ug/L  
RT: 8.28 min Scan# 2237  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 61653 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.1  | 54.9  | 102.1 |



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

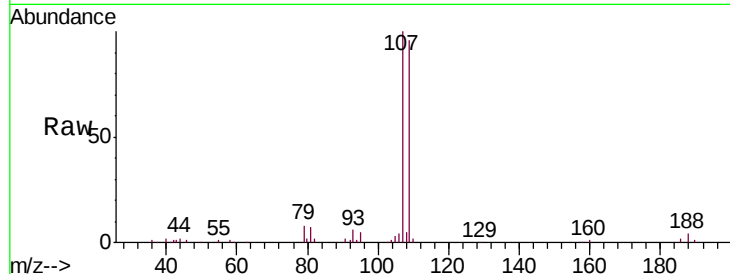




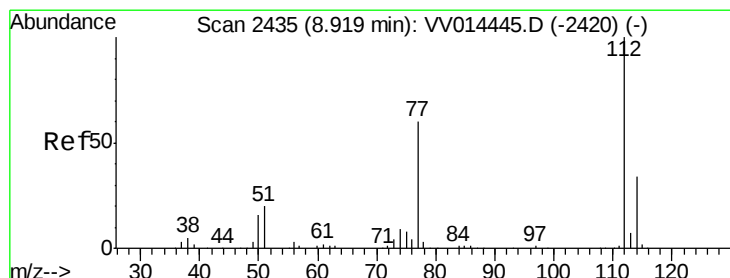
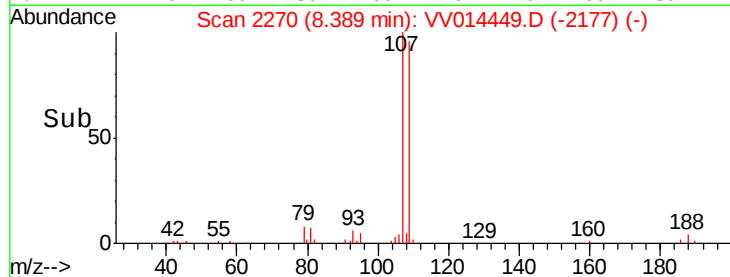
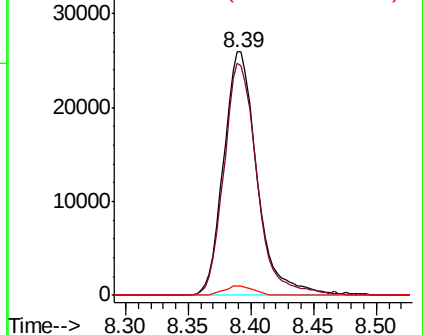
#50  
1,2-Dibromoethane  
Concen: 4.985 ug/L  
RT: 8.39 min Scan# 2270  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00555

Tgt Ion:107 Resp: 48000  
Ion Ratio Lower Upper  
107 100  
109 95.6 65.0 120.6  
188 3.8 2.7 4.1

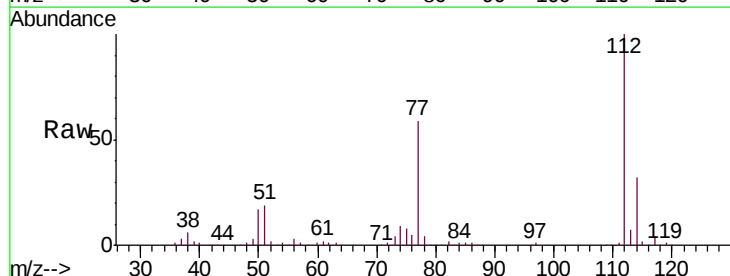


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

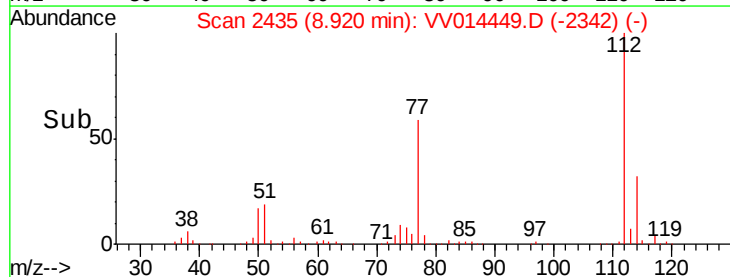
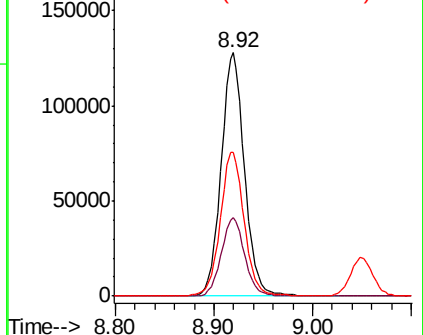


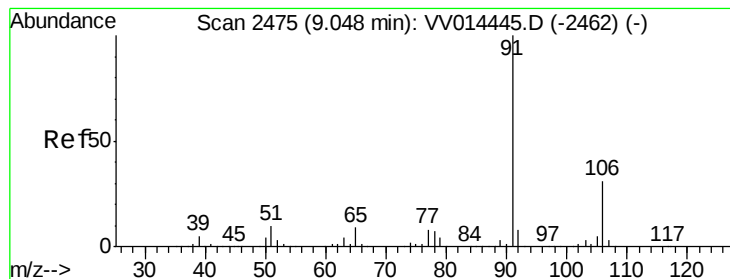
#51  
Chlorobenzene  
Concen: 4.950 ug/L  
RT: 8.92 min Scan# 2435  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

Tgt Ion:112 Resp: 211845  
Ion Ratio Lower Upper  
112 100  
114 32.2 21.8 40.6  
77 59.1 48.5 72.7



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





#52

Ethylbenzene

Concen: 4.922 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

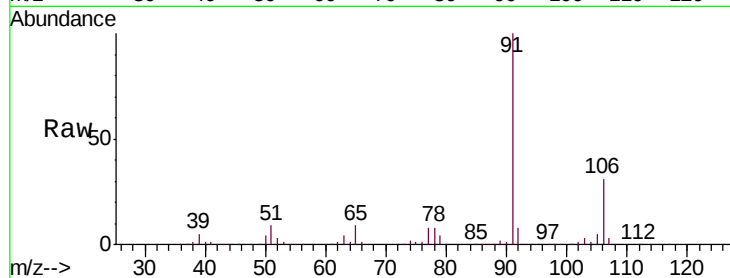
VSTD00555

Tgt Ion: 91 Resp: 381173

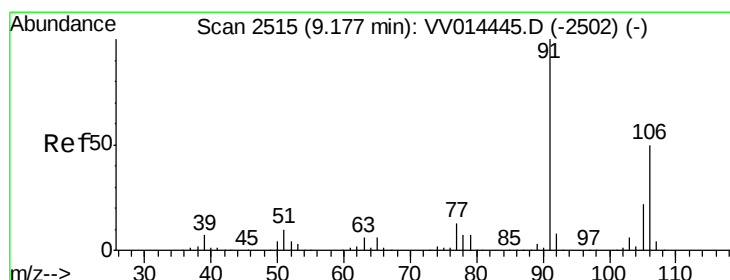
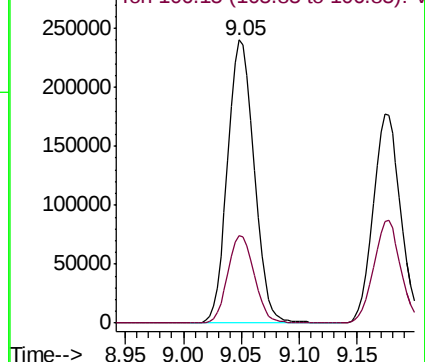
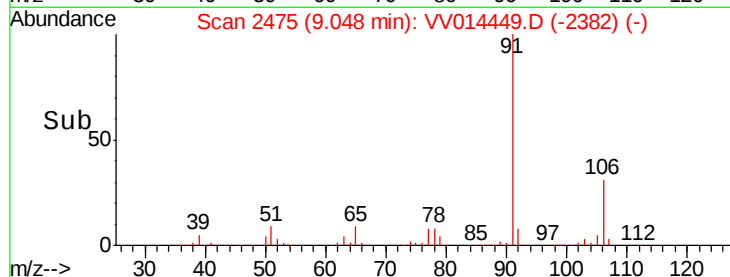
Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VV014449.D (-2382) (-)



#53

m,p-xylene

Concen: 4.930 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014449.D

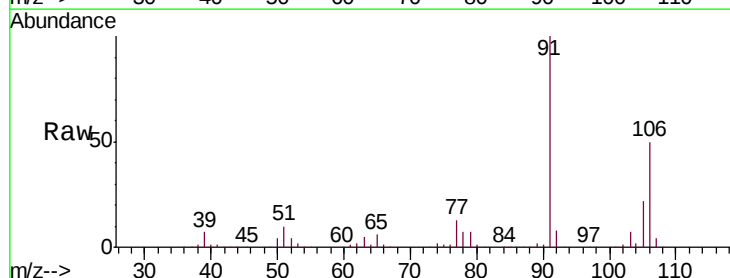
Acq: 31 Jan 2020 13:14

Tgt Ion: 106 Resp: 142227

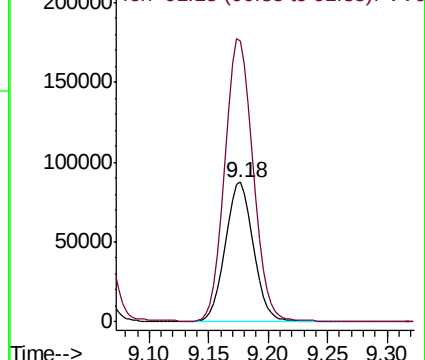
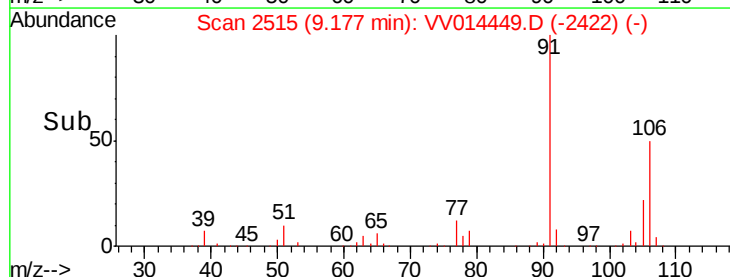
Ion Ratio Lower Upper

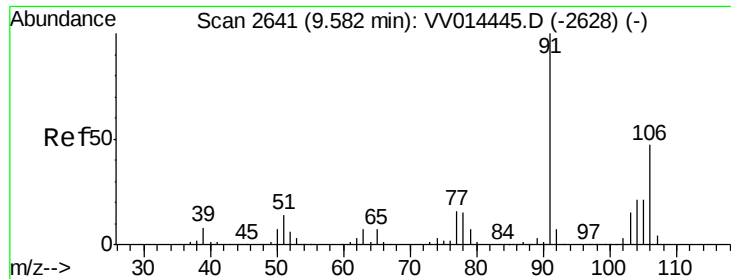
106 100

91 201.6 139.9 259.9



Abundance Ion 106.15 (105.85 to 106.85): VV014449.D (-2422) (-)

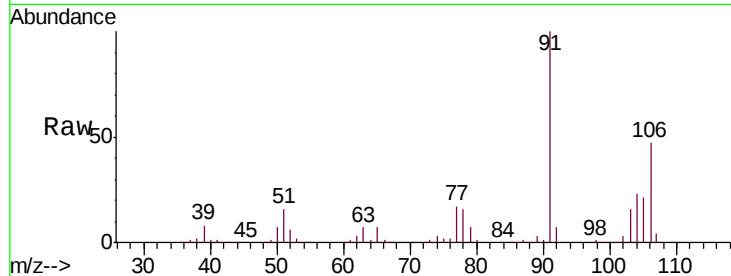




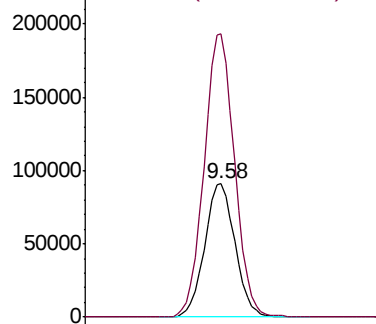
#54  
o-xylene  
Concen: 4.980 ug/L  
RT: 9.58 min Scan# 2641  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00555

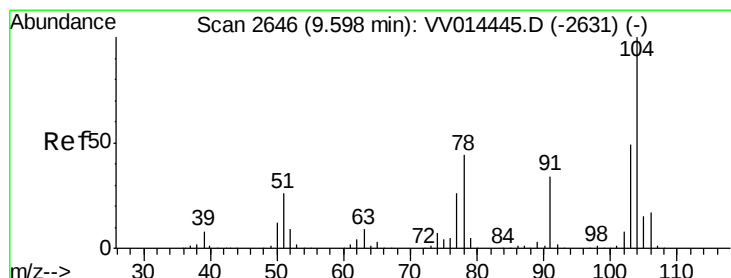
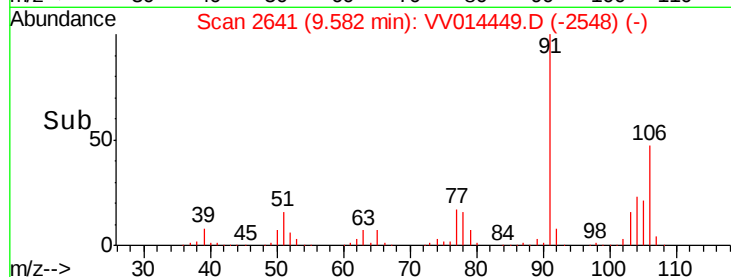
Tgt Ion:106 Resp: 140294  
Ion Ratio Lower Upper  
106 100  
91 211.9 145.9 271.1



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

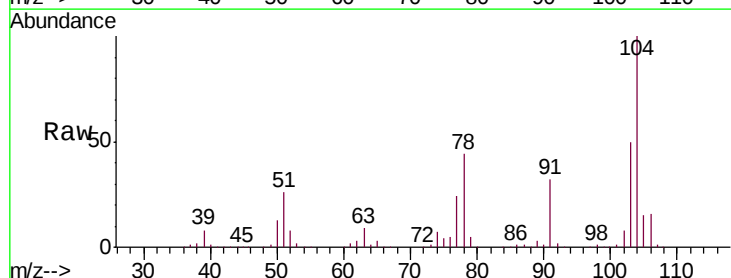


Time-->

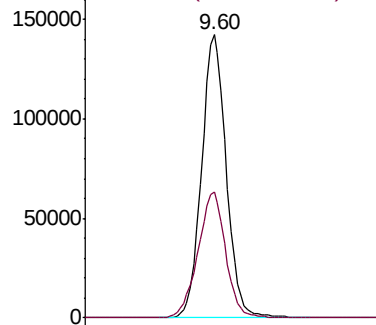


#55  
Styrene  
Concen: 4.966 ug/L  
RT: 9.60 min Scan# 2646  
Delta R.T. 0.00 min  
Lab File: VV014449.D  
Acq: 31 Jan 2020 13:14

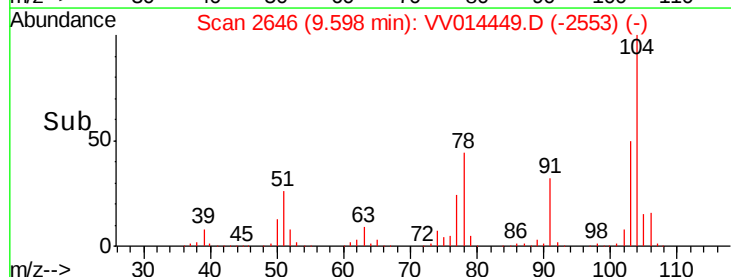
Tgt Ion:104 Resp: 229679  
Ion Ratio Lower Upper  
104 100  
78 44.3 32.3 60.1

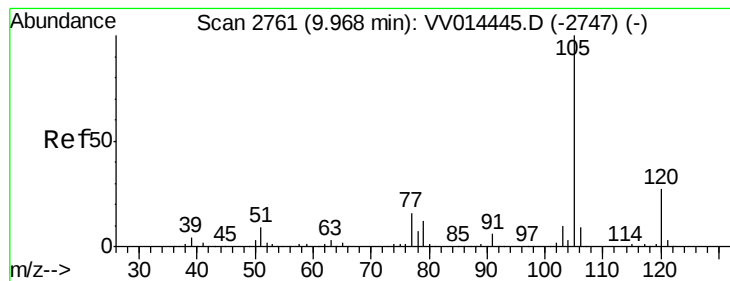


Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VV0



Time-->





#56

Isopropylbenzene

Concen: 4.996 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

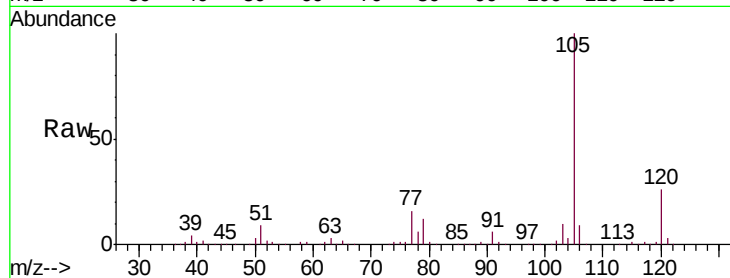
Tgt Ion: 105 Resp: 368977

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

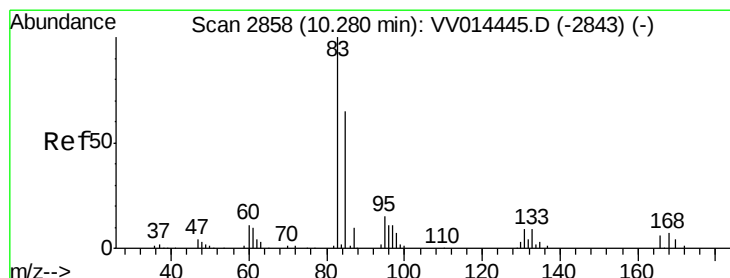
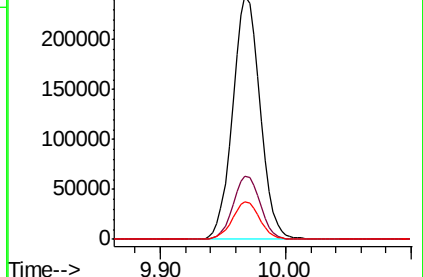
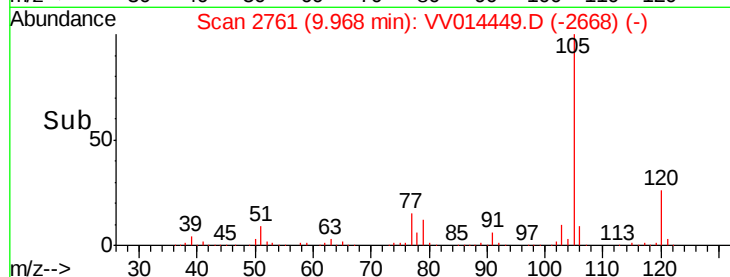
77 15.4 12.8 19.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.072 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

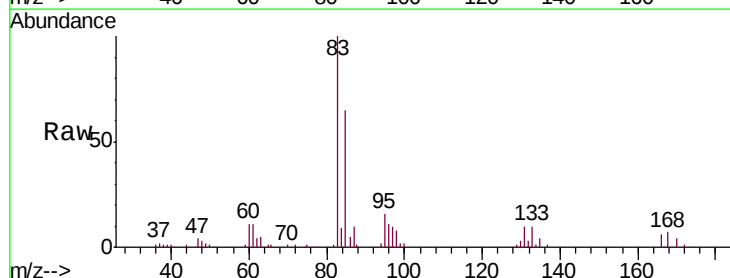
Tgt Ion: 83 Resp: 61444

Ion Ratio Lower Upper

83 100

85 65.3 45.3 84.1

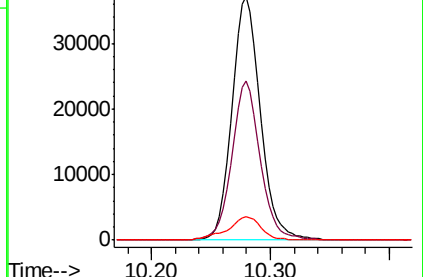
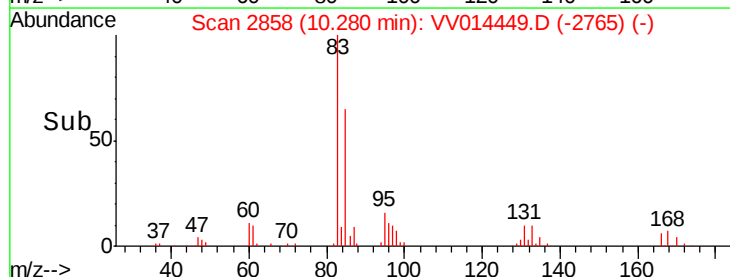
131 9.6 7.9 11.9

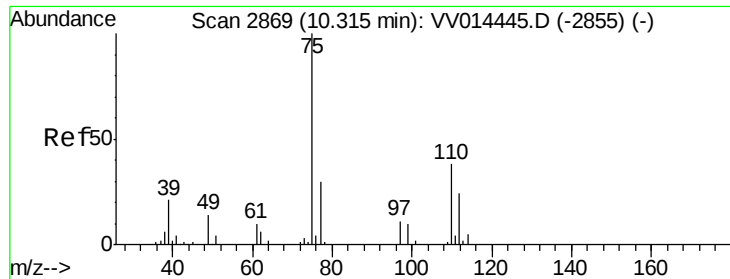


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.880 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

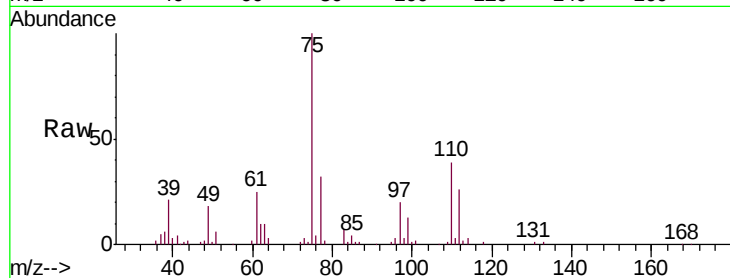
VSTD00555

Tgt Ion: 75 Resp: 43392

Ion Ratio Lower Upper

75 100

77 33.1 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VV014445.D (-2855) (-)

Ion 77.00 (76.70 to 77.70): VV014445.D (-2855) (-)

10.31

25000

20000

15000

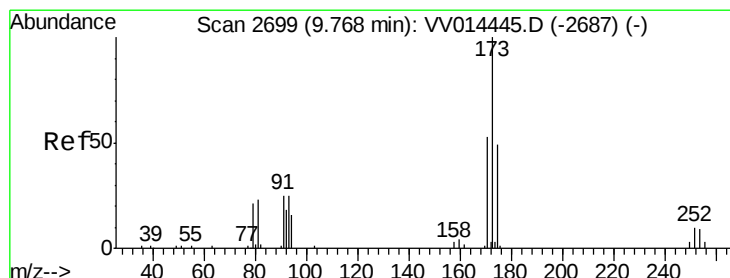
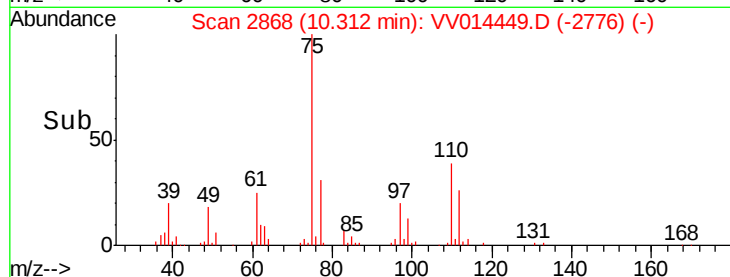
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 5.057 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

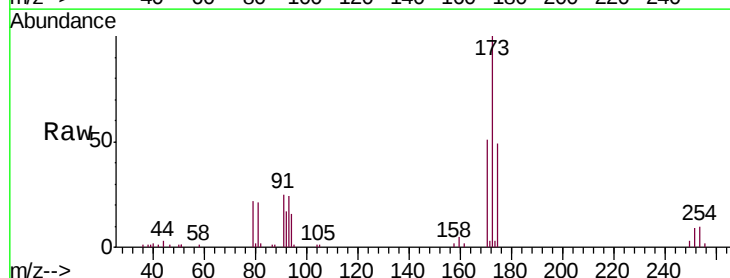
Tgt Ion: 173 Resp: 30219

Ion Ratio Lower Upper

173 100

175 49.4 38.9 58.3

254 8.6 7.0 10.4



Abundance Ion 172.90 (172.60 to 173.60): VV014445.D (-2687) (-)

Ion 174.90 (174.60 to 175.60): VV014445.D (-2687) (-)

Ion 253.75 (253.45 to 254.45): VV014445.D (-2687) (-)

9.77

20000

15000

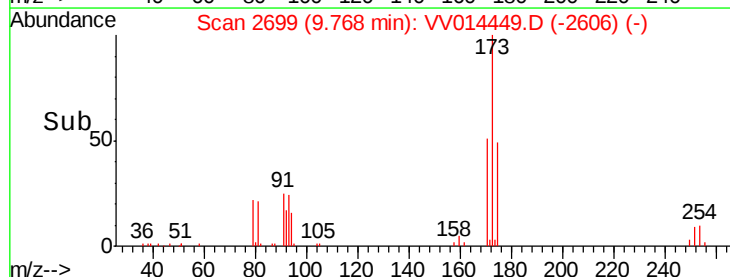
10000

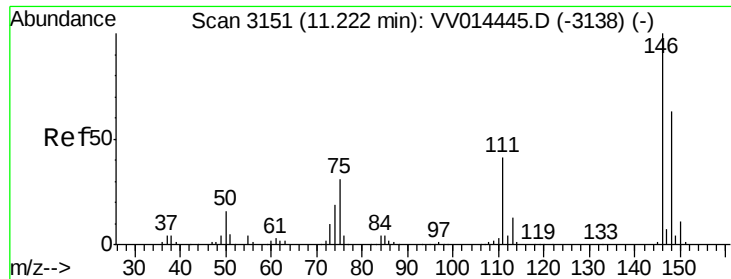
5000

0

Time-->

9.70 9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 5.055 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

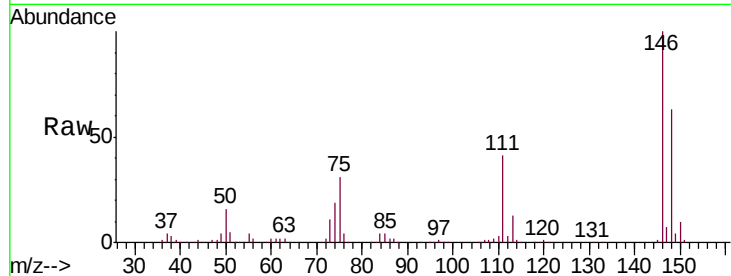
Tgt Ion:146 Resp: 161725

Ion Ratio Lower Upper

146 100

111 40.7 29.5 54.7

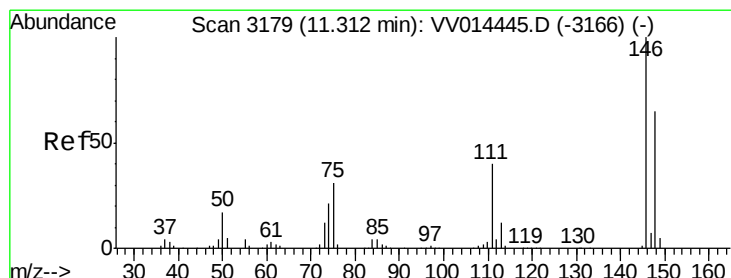
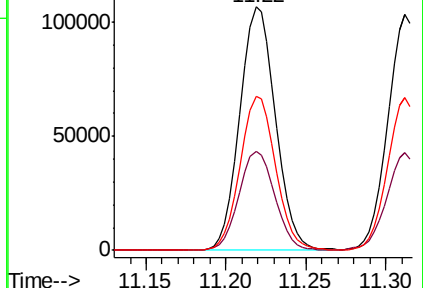
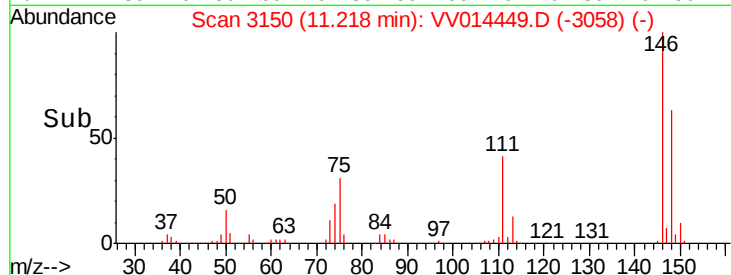
148 63.1 44.7 83.1



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.970 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

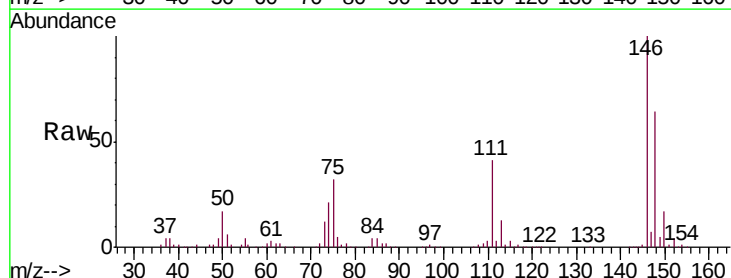
Tgt Ion:146 Resp: 158533

Ion Ratio Lower Upper

146 100

111 41.2 27.9 51.7

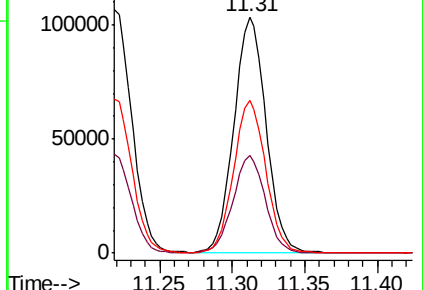
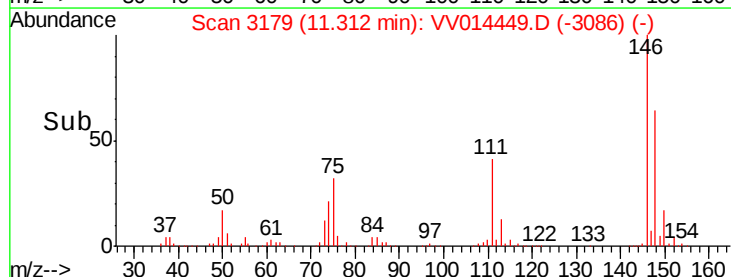
148 64.5 44.3 82.3

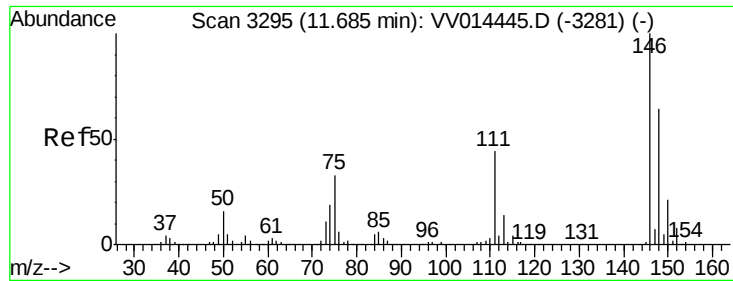


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.053 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

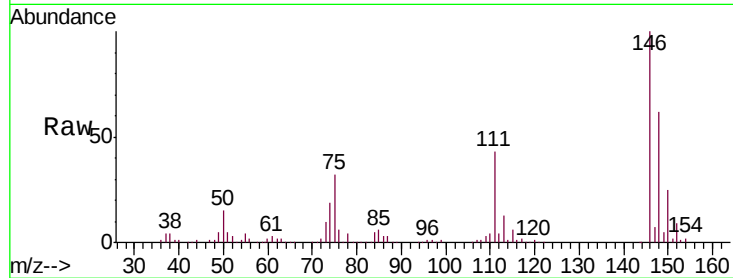
Tgt Ion:146 Resp: 145896

Ion Ratio Lower Upper

146 100

111 43.3 35.0 52.6

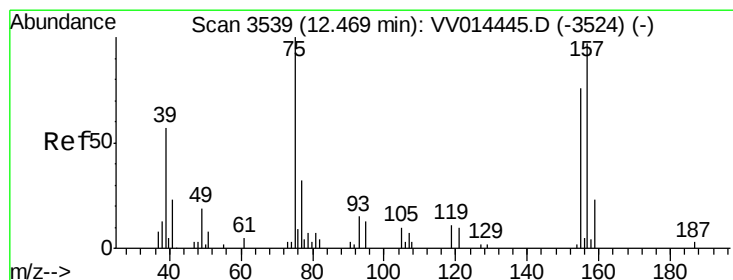
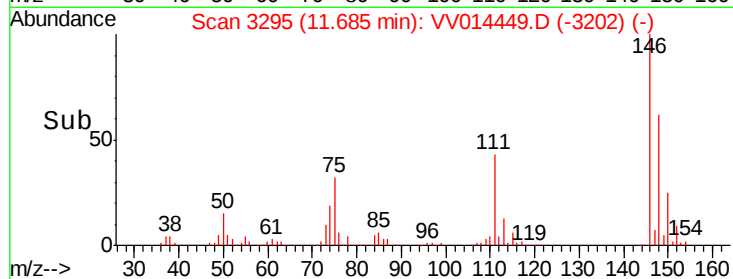
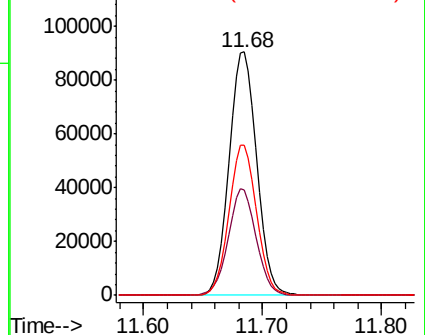
148 61.8 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.243 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

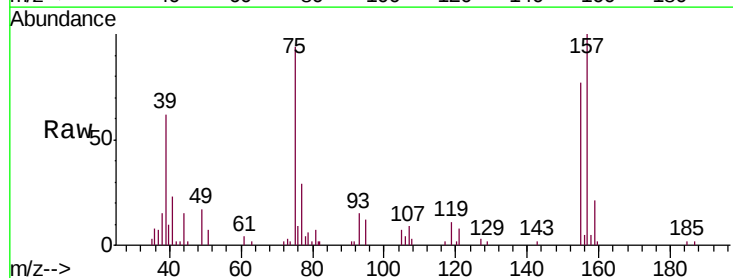
Tgt Ion: 75 Resp: 9673

Ion Ratio Lower Upper

75 100

155 81.6 61.8 92.8

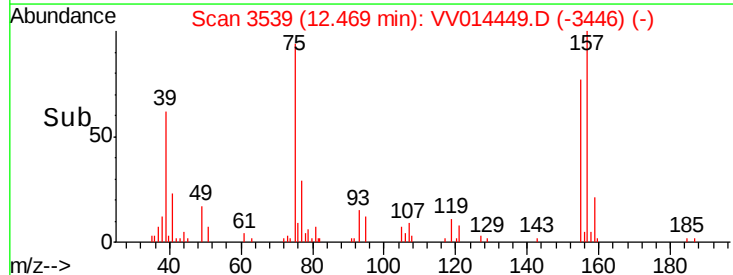
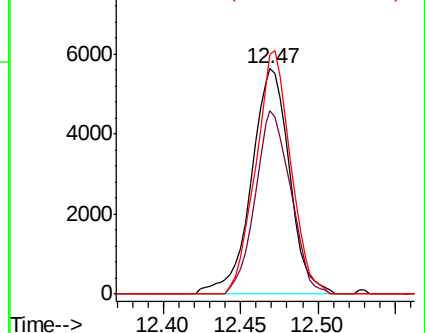
157 106.5 76.6 114.8

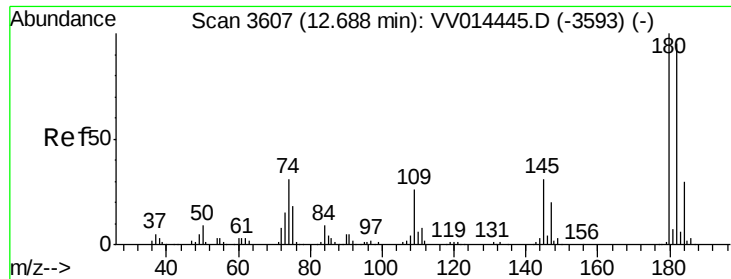


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

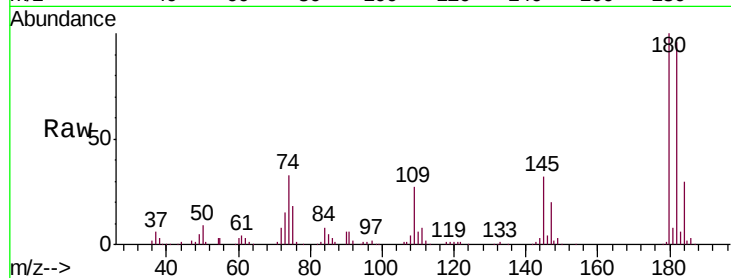




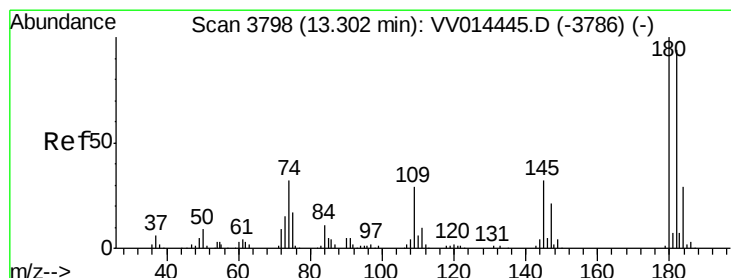
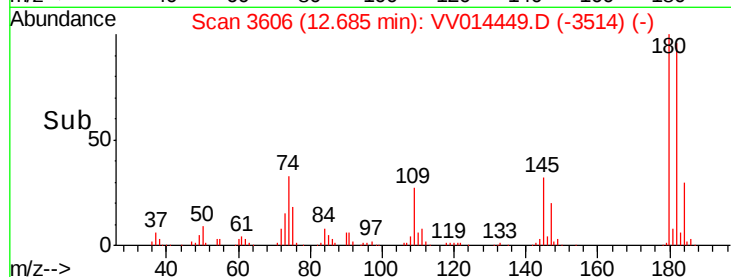
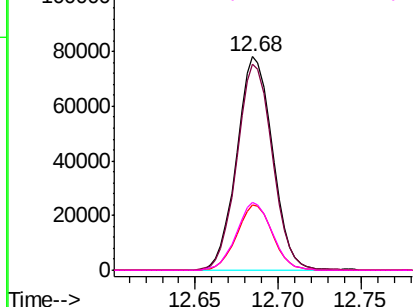
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.980 ug/L  
 RT: 12.68 min Scan# 3606  
 Delta R.T. -0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00555

Tgt Ion:180 Resp: 117616  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 76.5 114.7  
 184 30.5 23.7 35.5  
 145 31.6 25.8 38.6

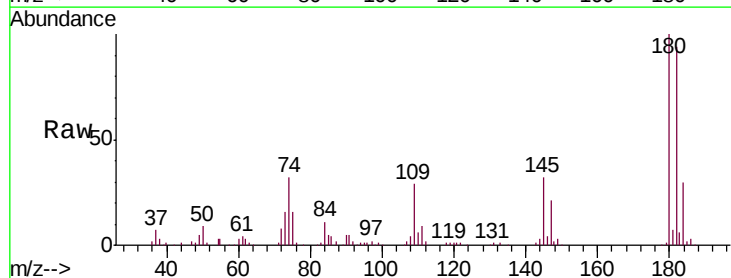


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

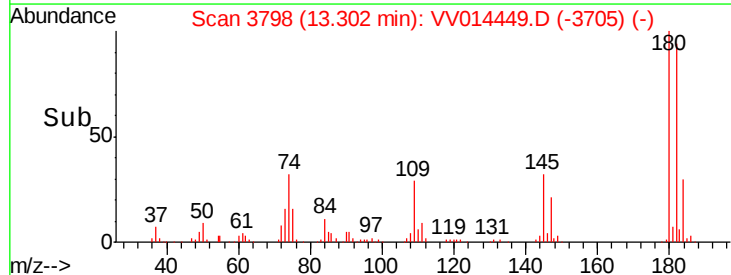
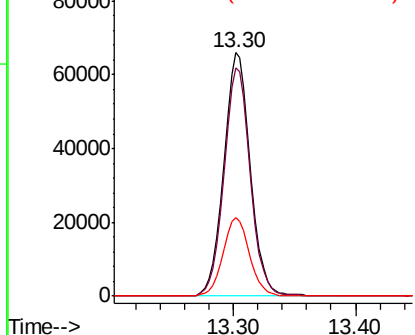


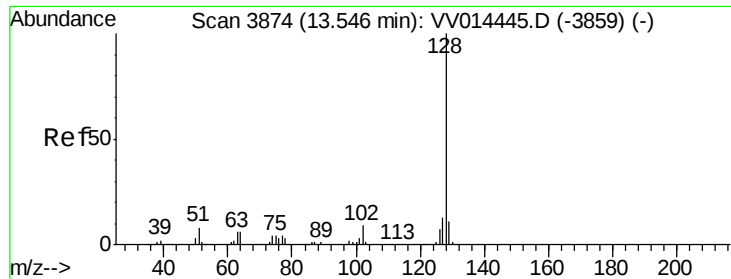
#68  
 1,2,4-trichlorobenzene  
 Concen: 5.070 ug/L  
 RT: 13.30 min Scan# 3798  
 Delta R.T. 0.00 min  
 Lab File: VV014449.D  
 Acq: 31 Jan 2020 13:14

Tgt Ion:180 Resp: 100656  
 Ion Ratio Lower Upper  
 180 100  
 182 93.1 75.5 113.3  
 145 32.1 26.8 40.2



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





#69

Naphthalene

Concen: 4.887 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00555

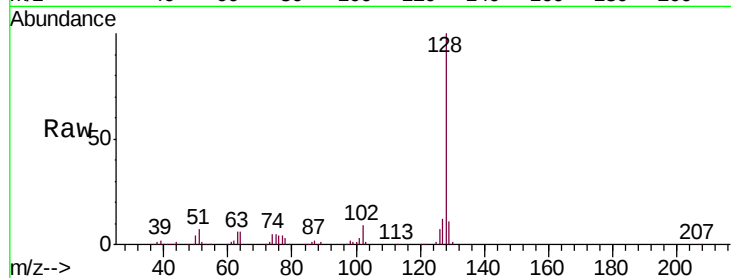
Tgt Ion:128 Resp: 170795

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

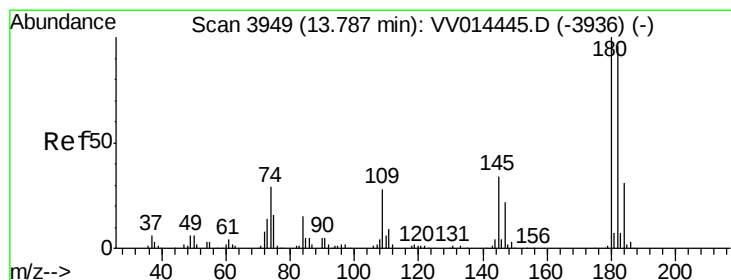
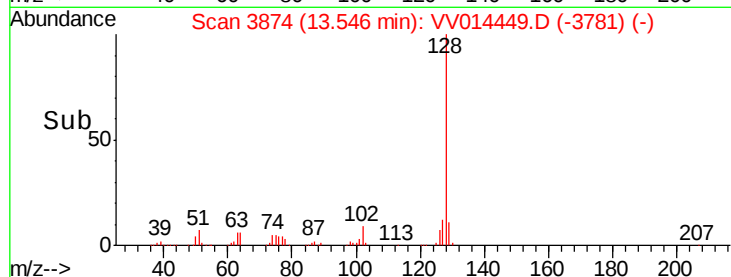
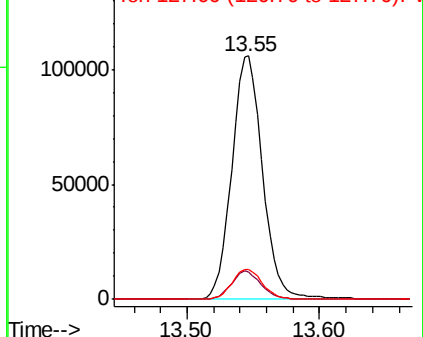
127 12.4 10.3 15.5



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: 5.066 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014449.D

Acq: 31 Jan 2020 13:14

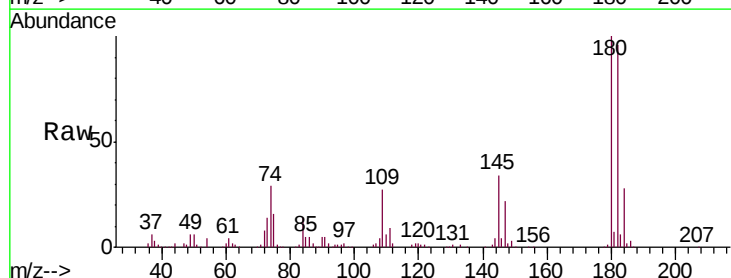
Tgt Ion:180 Resp: 86975

Ion Ratio Lower Upper

180 100

182 95.2 76.0 114.0

145 33.5 27.6 41.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

