

Data File : VW011417.D  
Acq On : 22 Jul 2019 13:10  
Operator : SY/VA  
Sample : VSTD02517  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

Quant Time: Jul 22 13:40:56 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072219S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 22 12:45:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 430836   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 379707   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 181650   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.35  | 65  | 133436 | 20.28 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.89  | 69  | 97696  | 21.17 | ug/L | 0.01 |
| 10) 1,1-Dichloroethene-d2      | 4.03  | 63  | 312106 | 22.40 | ug/L | 0.01 |
| 20) 2-Butanone-d5              | 7.07  | 46  | 118299 | 45.65 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.65  | 84  | 261833 | 22.17 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 8.31  | 65  | 154512 | 21.25 | ug/L | 0.00 |
| 29) Benzene-d6                 | 8.27  | 84  | 538949 | 23.04 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 9.27  | 67  | 174325 | 22.89 | ug/L | 0.00 |
| 37) Toluene-d8                 | 10.32 | 98  | 487166 | 23.37 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79  | 76768  | 23.70 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 10.93 | 63  | 80439  | 46.05 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84  | 141251 | 22.42 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 13.85 | 152 | 162907 | 23.36 | ug/L | 0.00 |

Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01  | 85  | 147348 | 27.807 | ug/L   | 100    |
| 3) Chloromethane               | 2.21  | 50  | 154650 | 26.882 | ug/L   | 99     |
| 5) Vinyl chloride              | 2.36  | 62  | 195594 | 26.049 | ug/L   | 99     |
| 6) Bromomethane                | 2.78  | 94  | 92038  | 26.200 | ug/L   | 99     |
| 8) Chloroethane                | 2.92  | 64  | 101854 | 26.838 | ug/L   | 98     |
| 9) Trichlorofluoromethane      | 3.26  | 101 | 93224  | 36.262 | ug/L   | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06  | 101 | 148556 | 25.933 | ug/L   | 97     |
| 12) 1,1-Dichloroethene         | 4.04  | 96  | 146981 | 25.960 | ug/L # | 73     |
| 13) Acetone                    | 4.12  | 43  | 136769 | 54.033 | ug/L   | 98     |
| 14) Carbon disulfide           | 4.39  | 76  | 474742 | 29.312 | ug/L   | 100    |
| 15) Methyl Acetate             | 4.67  | 43  | 104069 | 25.267 | ug/L   | 100    |
| 16) Methylene chloride         | 4.92  | 84  | 153297 | 24.213 | ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 5.42  | 73  | 229876 | 26.181 | ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 5.42  | 96  | 150438 | 26.294 | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 6.21  | 63  | 299098 | 25.751 | ug/L   | 98     |
| 21) 2-Butanone                 | 7.17  | 43  | 175665 | 53.760 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 7.17  | 96  | 157838 | 25.487 | ug/L   | 99     |
| 23) Bromochloromethane         | 7.51  | 128 | 66441  | 25.568 | ug/L   | 97     |
| 25) Chloroform                 | 7.67  | 83  | 272029 | 24.726 | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 8.40  | 62  | 201547 | 23.965 | ug/L   | 98     |
| 30) Cyclohexane                | 7.95  | 56  | 319597 | 27.684 | ug/L   | 99     |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97  | 216387 | 27.458 | ug/L   | 98     |
| 32) Carbon tetrachloride       | 8.07  | 117 | 201945 | 27.324 | ug/L   | 99     |
| 34) Benzene                    | 8.32  | 78  | 634777 | 26.749 | ug/L   | 100    |
| 35) Trichloroethene            | 9.09  | 95  | 157479 | 26.297 | ug/L   | 99     |
| 36) Methylcyclohexane          | 9.34  | 83  | 294609 | 27.337 | ug/L   | 99     |
| 40) 1,2-Dichloropropane        | 9.37  | 63  | 169258 | 26.029 | ug/L   | 99     |
| 41) Bromodichloromethane       | 9.65  | 83  | 198159 | 26.431 | ug/L   | 98     |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75  | 259258 | 27.021 | ug/L   | 98     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 298004 | 49.436 | ug/L   | 99     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

Quant Time: Jul 22 13:40:56 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072219S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jul 22 12:45:44 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 10.39 | 91   | 650318   | 26.475 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 211388   | 26.626 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 112936   | 25.079 | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 121242   | 26.788 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 232935   | 53.086 | ug/L  | 97       |
| 50) Dibromochloromethane       | 11.13 | 129  | 126098   | 26.296 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 110564   | 25.427 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.66 | 112  | 384471   | 25.620 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 726138   | 26.062 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 266889   | 26.383 | ug/L  | 99       |
| 55) o-xylene                   | 12.16 | 106  | 252224   | 26.210 | ug/L  | 99       |
| 56) Styrene                    | 12.18 | 104  | 429410   | 26.013 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 691053   | 26.307 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 148189   | 24.736 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 114391   | 24.864 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 75022    | 27.712 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 295648   | 26.454 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 296075   | 25.879 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 268316   | 25.793 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 26465    | 25.912 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 226371   | 26.734 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 187458   | 26.426 | ug/L  | 99       |
| 69) Naphthalene                | 15.37 | 128  | 399030   | 26.859 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 170394   | 26.253 | ug/L  | 99       |

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
VSTD02506

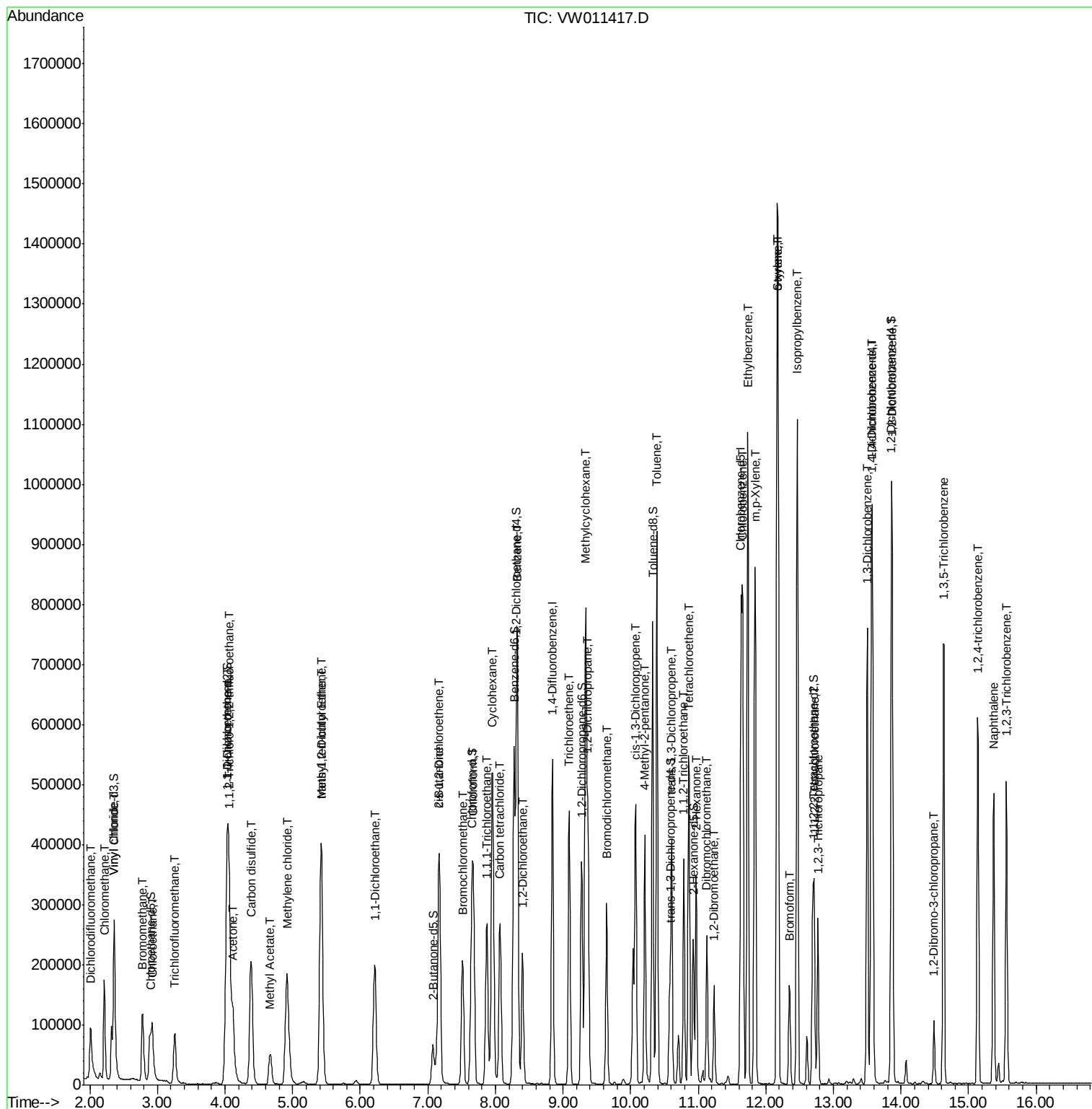
Quant Time: Jul 22 13:40:56 2019

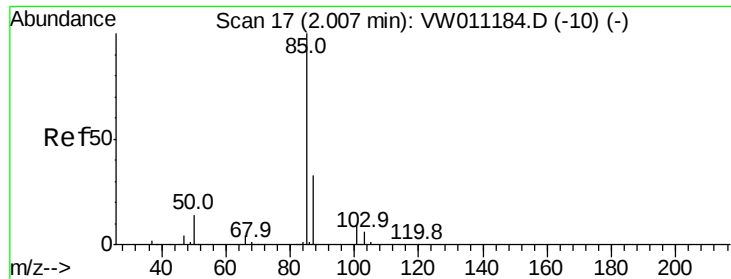
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072219S.M

Quant Title : VOC Analysis

QLast Update : Mon Jul 22 12:45:44 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 27.807 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampled :

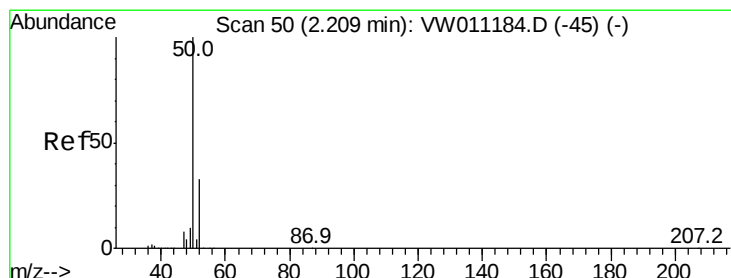
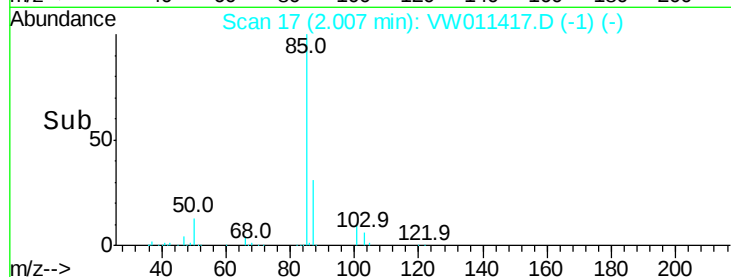
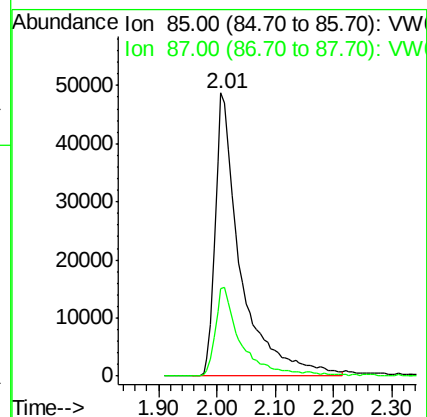
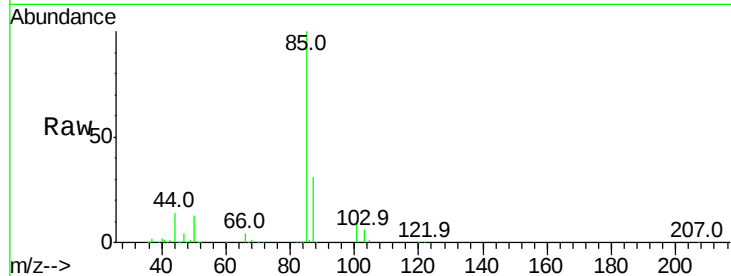
VSTD02506

Tgt Ion: 85 Resp: 147348

Ion Ratio Lower Upper

85 100

87 29.4 20.6 38.4



#3

Chloromethane

Concen: 26.882 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW011417.D

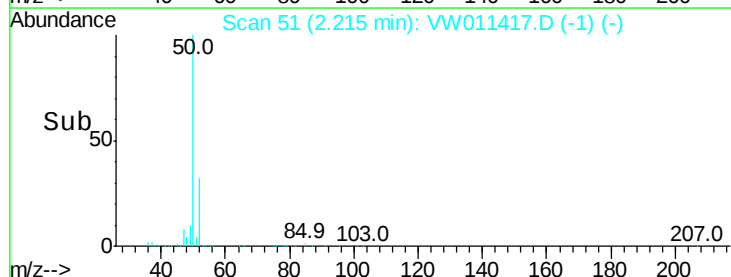
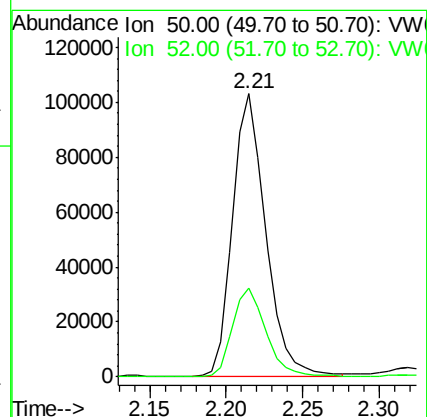
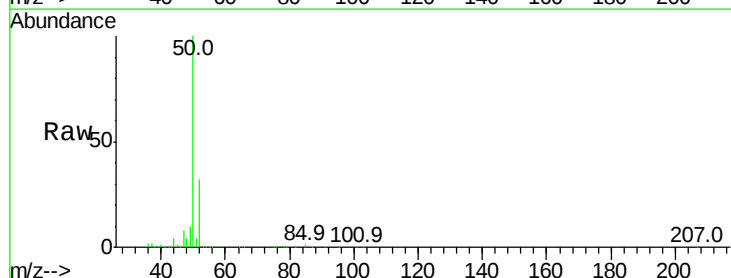
Acq: 22 Jul 2019 13:10

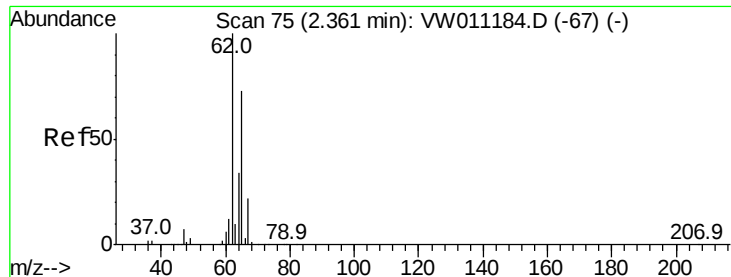
Tgt Ion: 50 Resp: 154650

Ion Ratio Lower Upper

50 100

52 31.5 22.3 41.5





#5

Vinyl chloride

Concen: 26.049 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

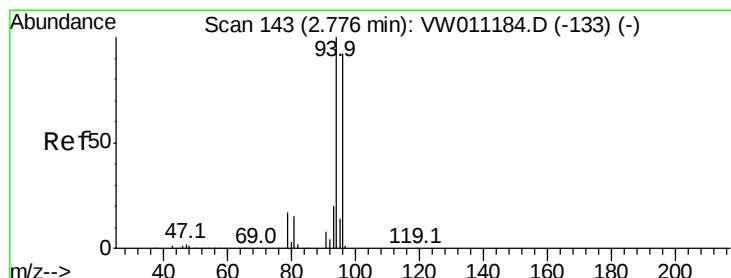
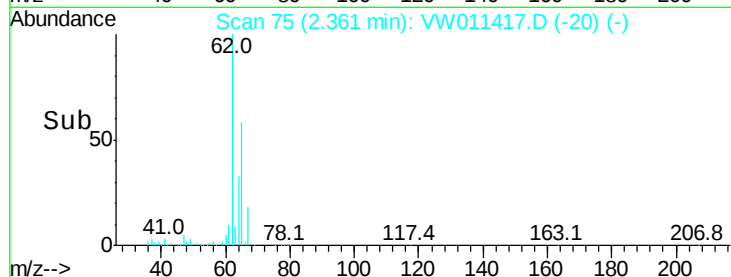
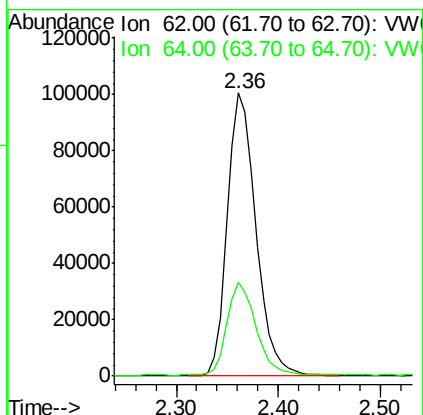
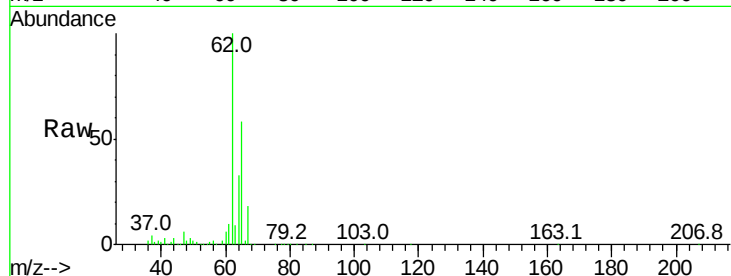
VSTD02506

Tgt Ion: 62 Resp: 195594

Ion Ratio Lower Upper

62 100

64 33.3 23.9 44.3



#6

Bromomethane

Concen: 26.200 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW011417.D

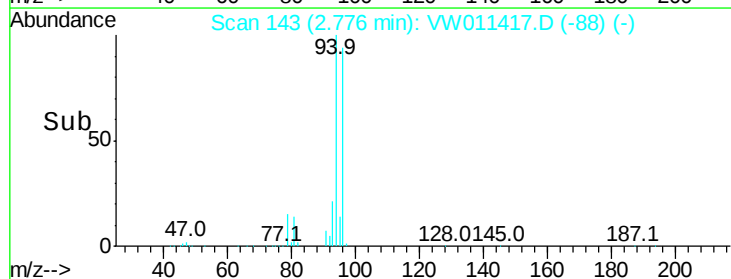
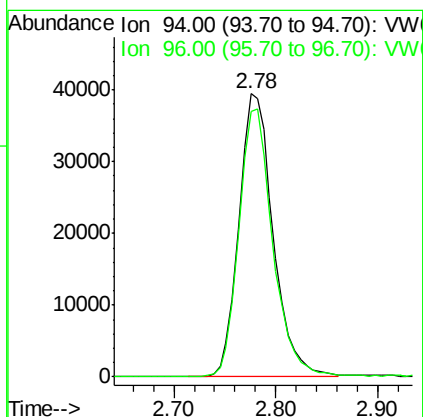
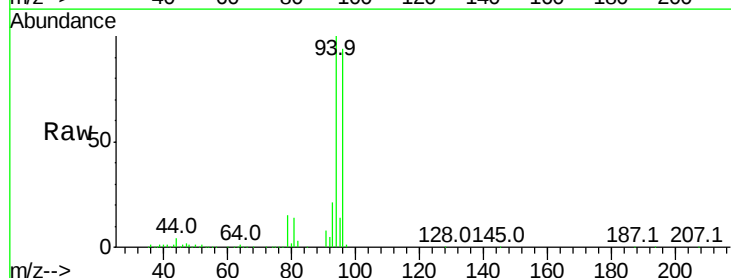
Acq: 22 Jul 2019 13:10

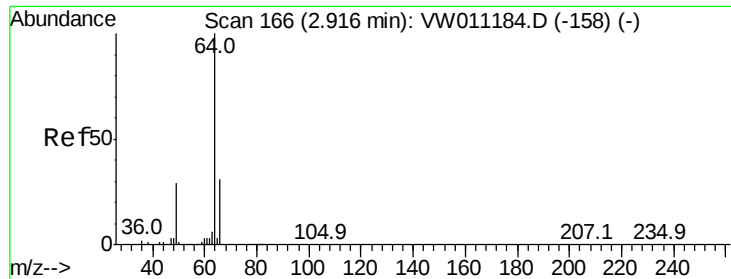
Tgt Ion: 94 Resp: 92038

Ion Ratio Lower Upper

94 100

96 94.1 9.3 177.3

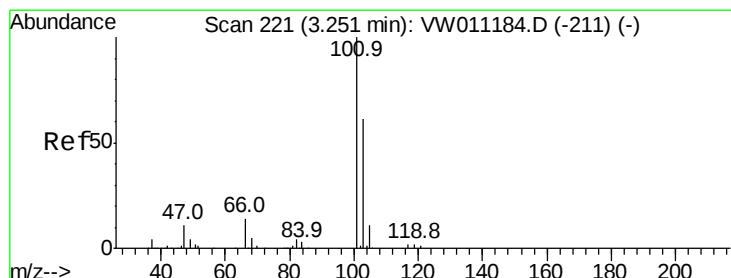
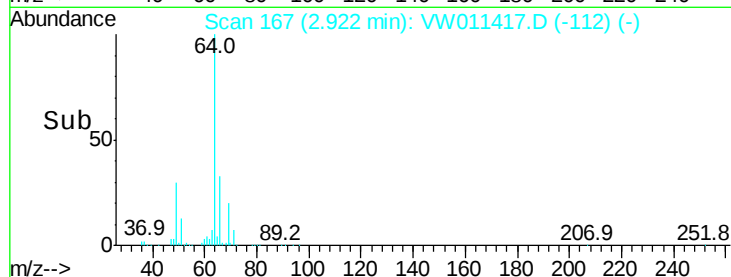
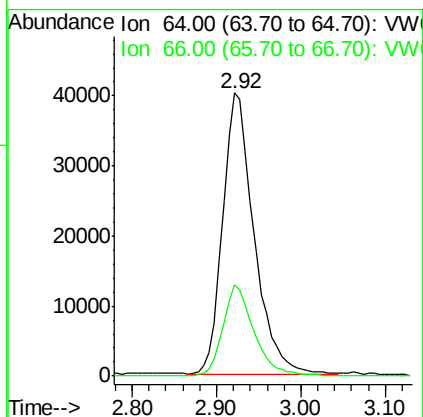
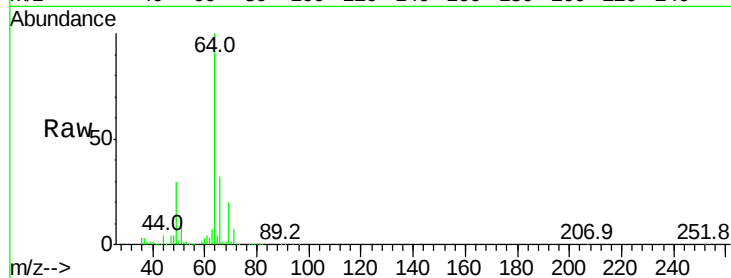




#8  
Chloroethane  
Concen: 26.838 ug/L  
RT: 2.92 min Scan# 167  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

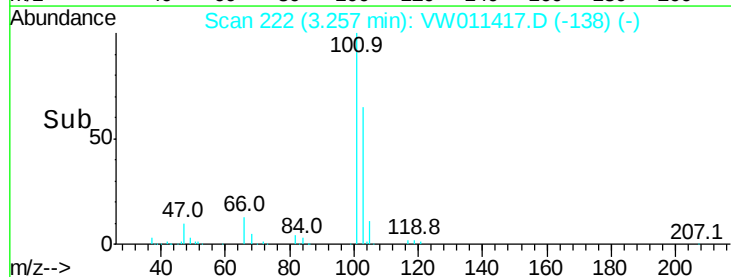
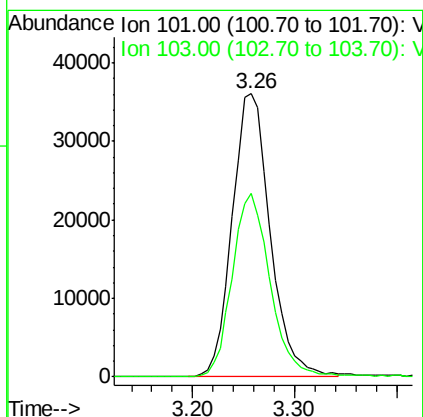
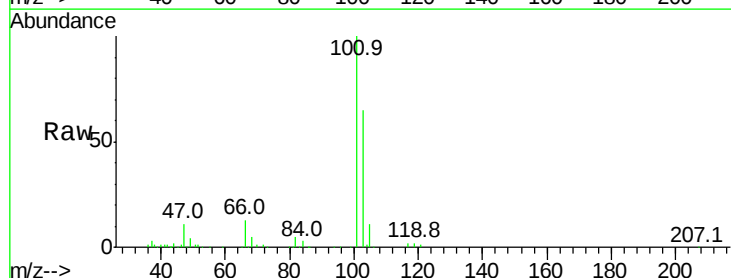
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

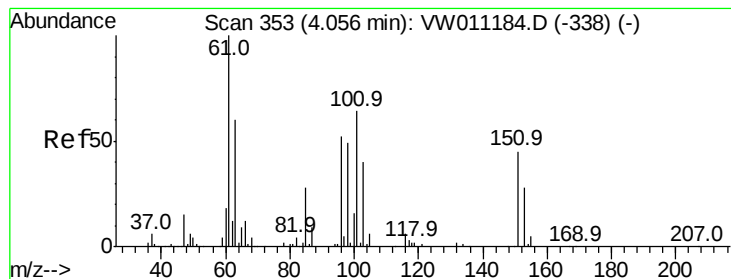
Tgt Ion: 64 Resp: 101854  
Ion Ratio Lower Upper  
64 100  
66 32.5 21.9 40.7



#9  
Trichlorofluoromethane  
Concen: 36.262 ug/L  
RT: 3.26 min Scan# 222  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion: 101 Resp: 93224  
Ion Ratio Lower Upper  
101 100  
103 64.6 44.6 82.8





#11

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

Concen: 25.933 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

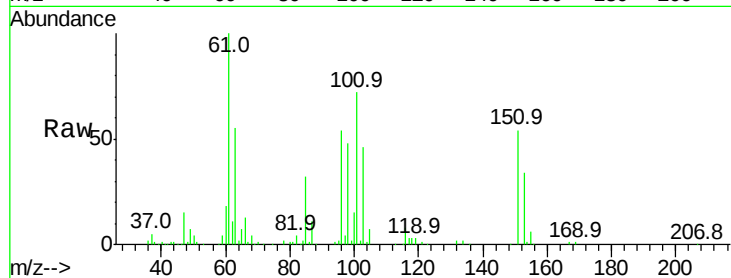
Tgt Ion: 101 Resp: 148556

Ion Ratio Lower Upper

101 100

85 44.0 33.8 50.8

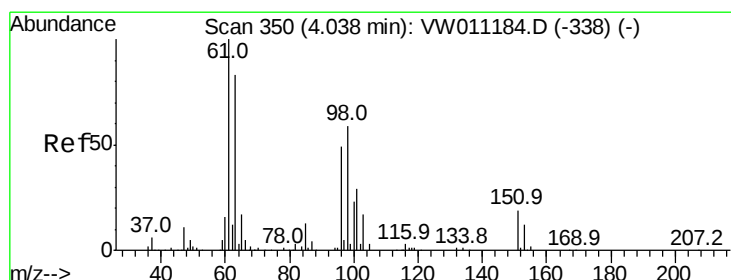
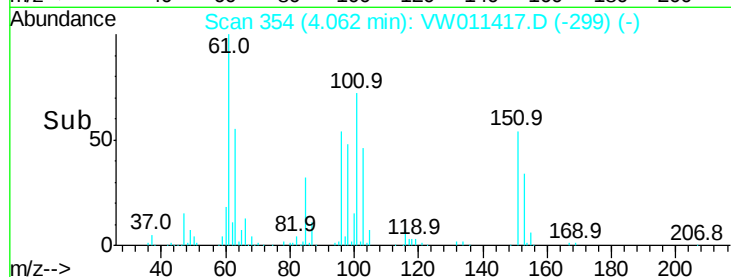
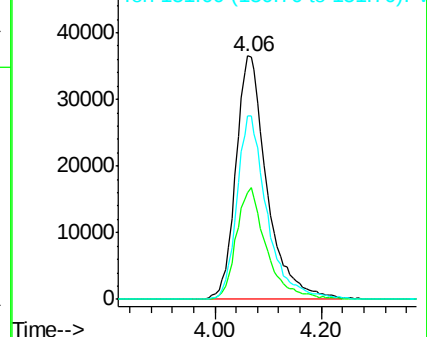
151 73.2 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.960 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

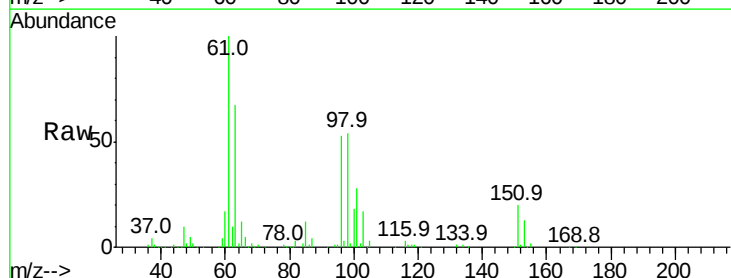
Tgt Ion: 96 Resp: 146981

Ion Ratio Lower Upper

96 100

61 190.3 142.2 264.0

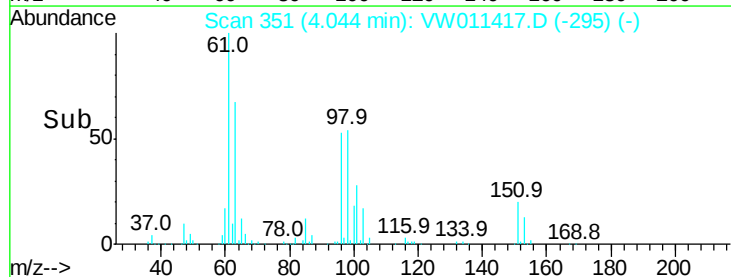
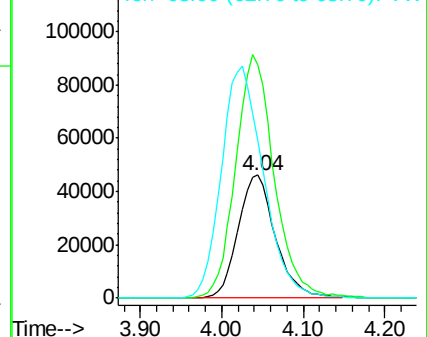
63 128.4 138.9 257.9#

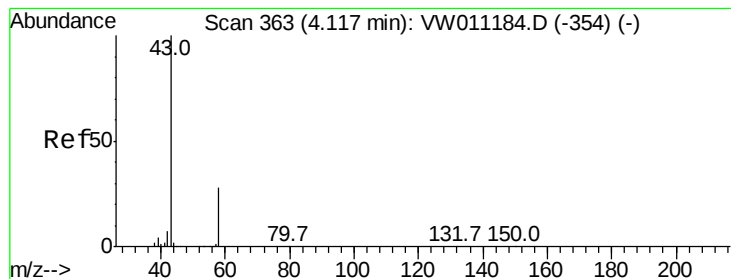


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 54.033 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

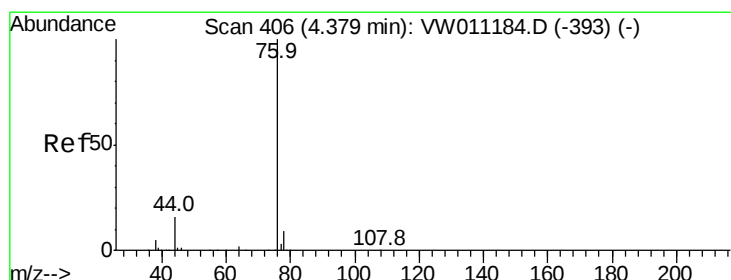
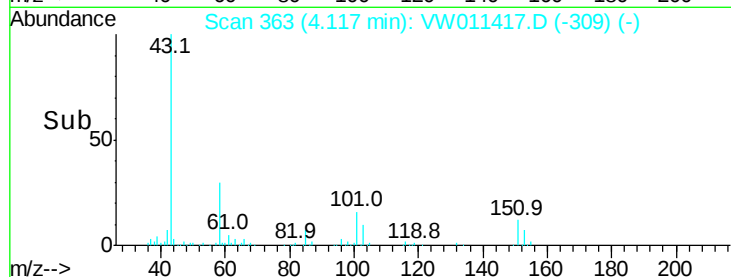
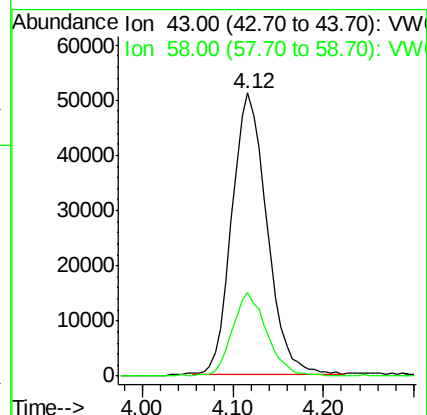
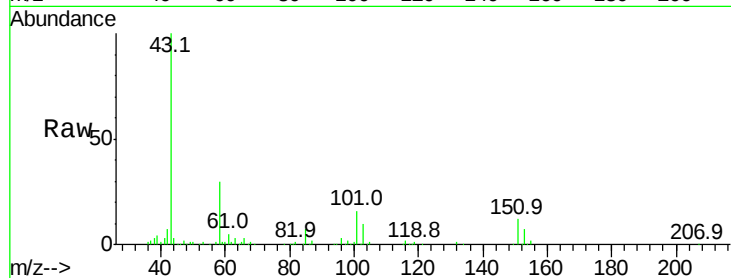
VSTD02506

Tgt Ion: 43 Resp: 136769

Ion Ratio Lower Upper

43 100

58 28.6 0.0 55.0



#14

Carbon disulfide

Concen: 29.312 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW011417.D

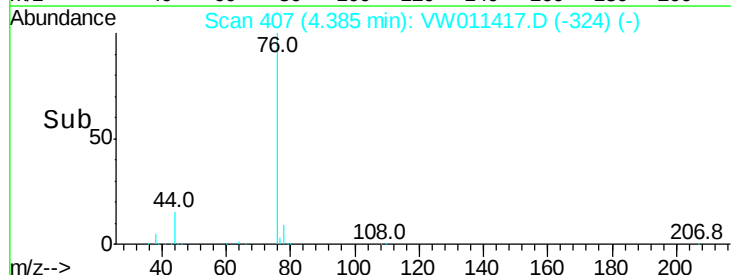
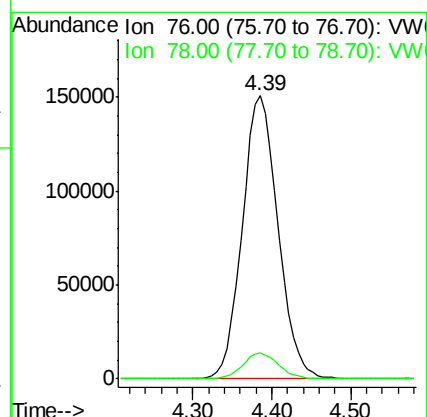
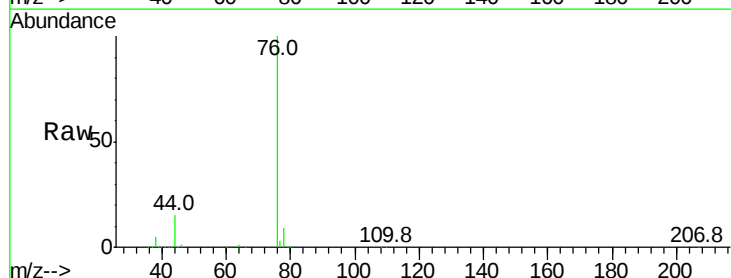
Acq: 22 Jul 2019 13:10

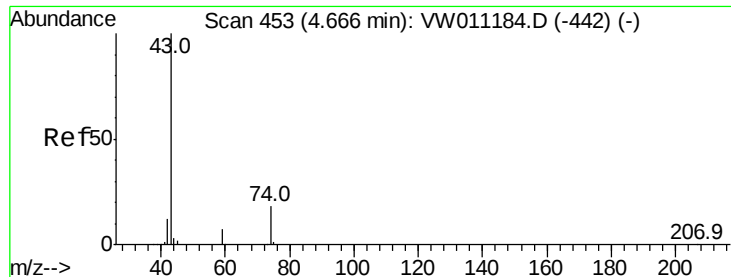
Tgt Ion: 76 Resp: 474742

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 25.267 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

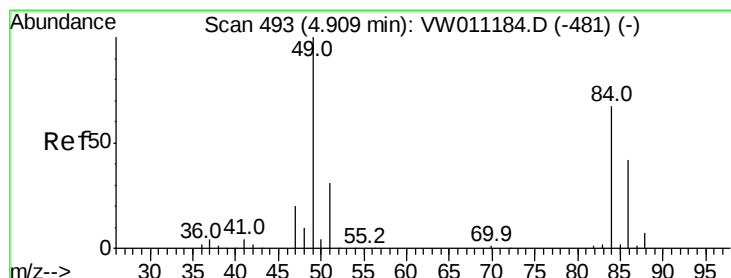
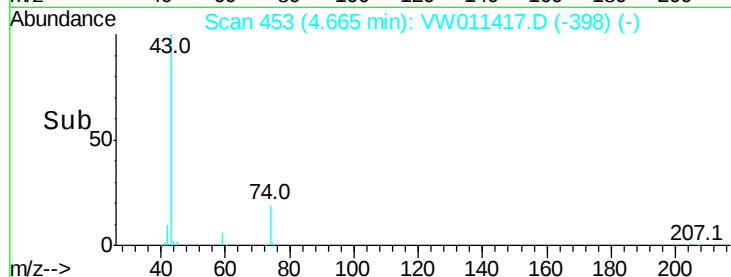
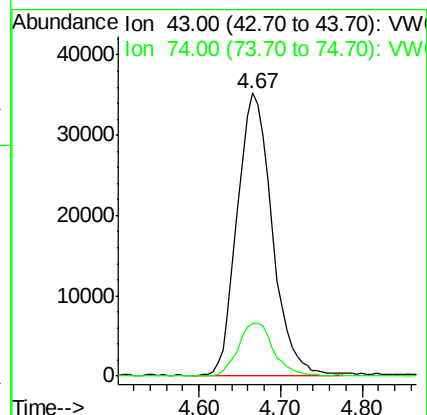
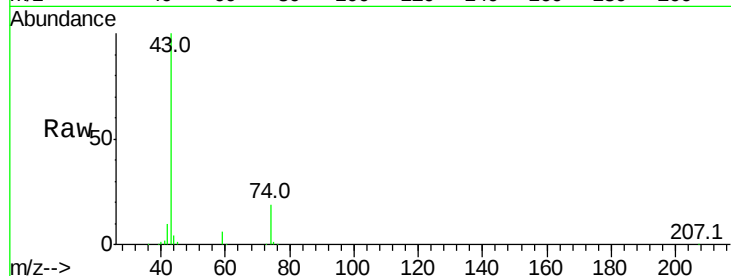
VSTD02506

Tgt Ion: 43 Resp: 104069

Ion Ratio Lower Upper

43 100

74 19.0 15.1 22.7



#16

Methylene chloride

Concen: 24.213 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

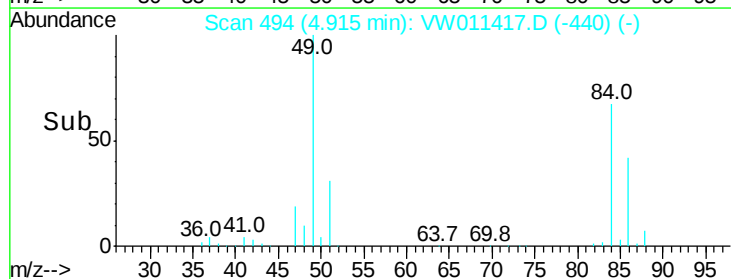
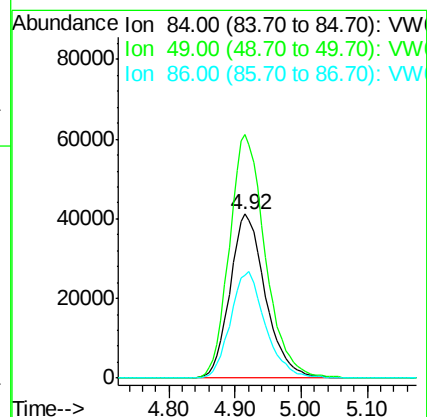
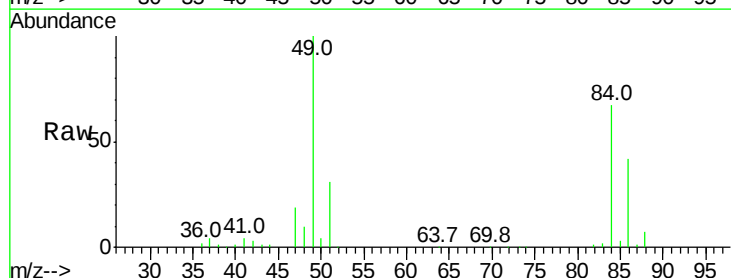
Tgt Ion: 84 Resp: 153297

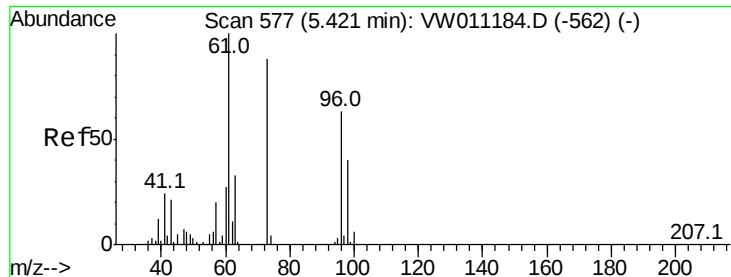
Ion Ratio Lower Upper

84 100

49 148.6 102.5 190.3

86 62.9 46.4 86.2

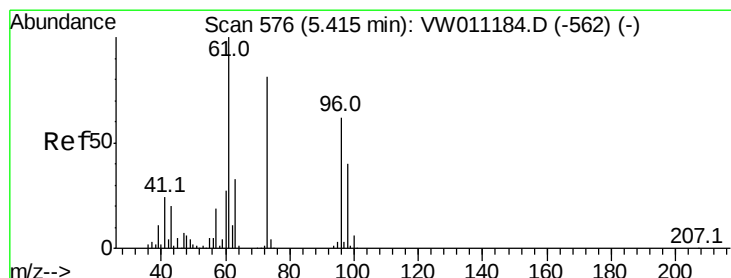
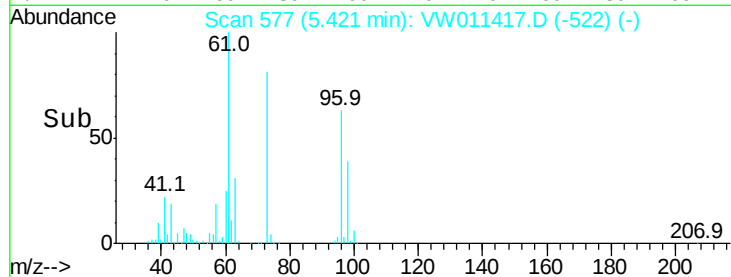
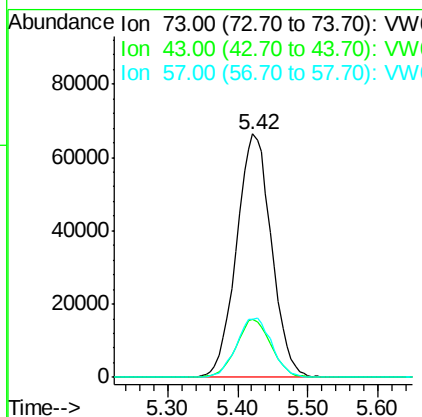
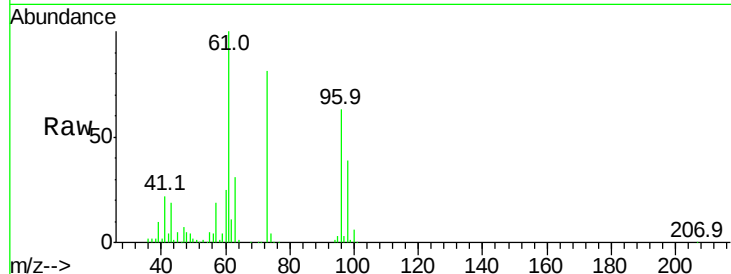




#17  
Methyl tert-butyl Ether  
Concen: 26.181 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

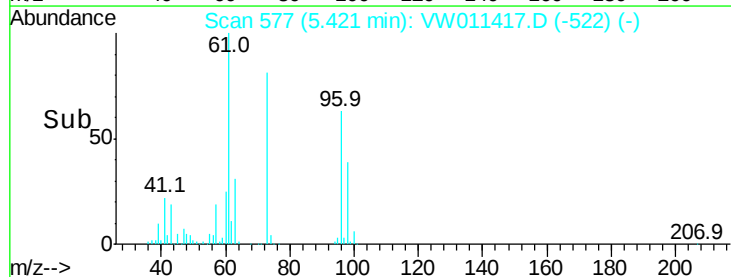
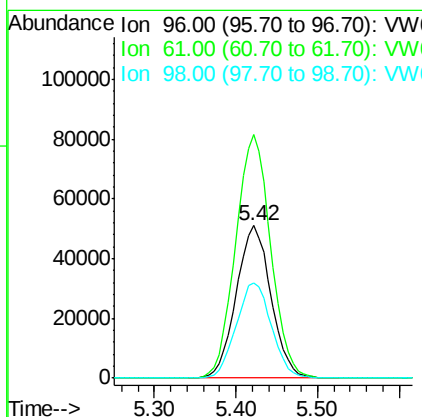
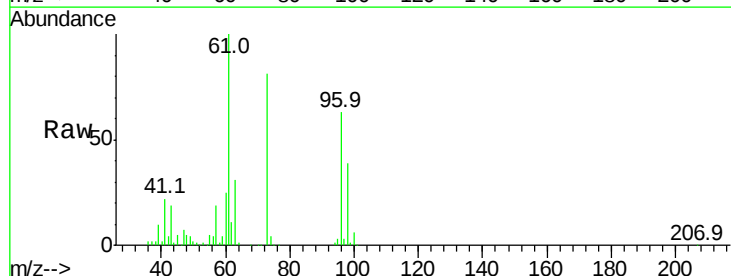
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

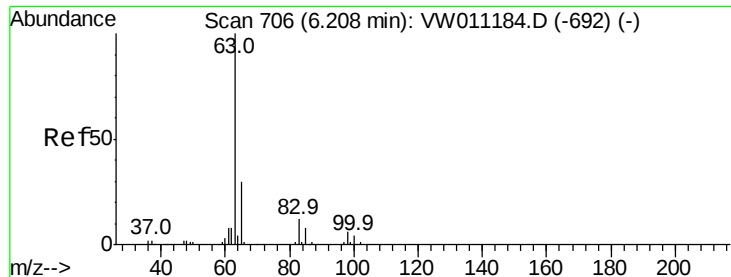
Tgt Ion: 73 Resp: 229876  
Ion Ratio Lower Upper  
73 100  
43 23.7 20.2 30.2  
57 24.7 19.6 29.4



#18  
trans-1,2-Dichloroethene  
Concen: 26.294 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion: 96 Resp: 150438  
Ion Ratio Lower Upper  
96 100  
61 159.6 113.7 211.1  
98 62.0 43.3 80.3





#19

1,1-Dichloroethane

Concen: 25.751 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

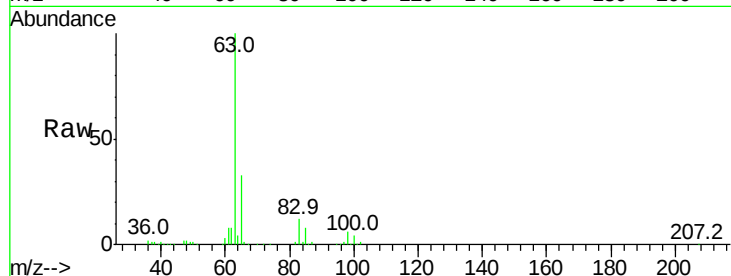
Tgt Ion: 63 Resp: 299098

Ion Ratio Lower Upper

63 100

65 32.6 22.1 41.1

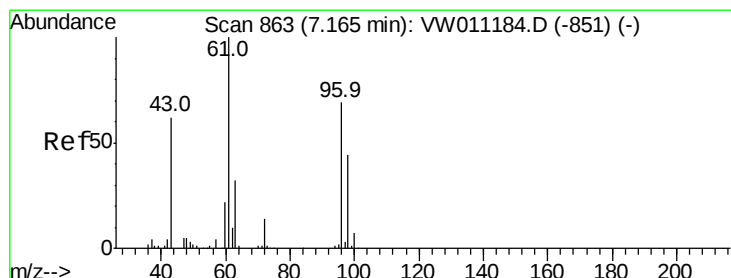
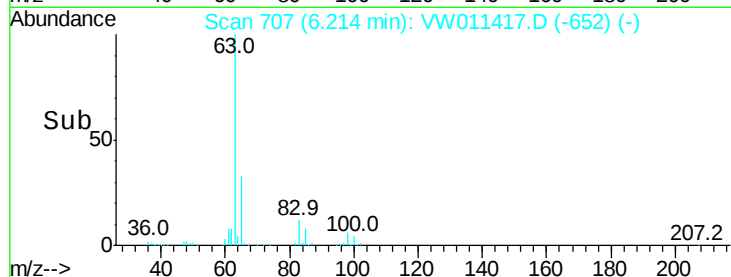
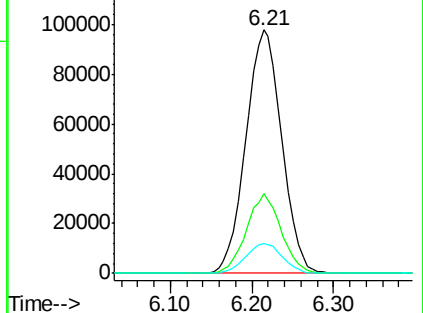
83 12.3 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 53.760 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011417.D

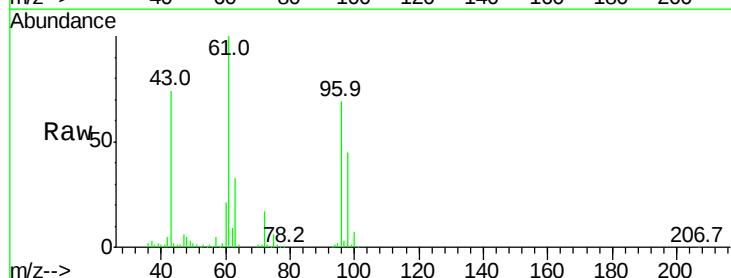
Acq: 22 Jul 2019 13:10

Tgt Ion: 43 Resp: 175665

Ion Ratio Lower Upper

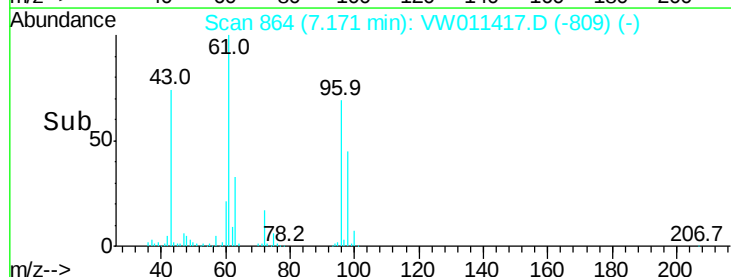
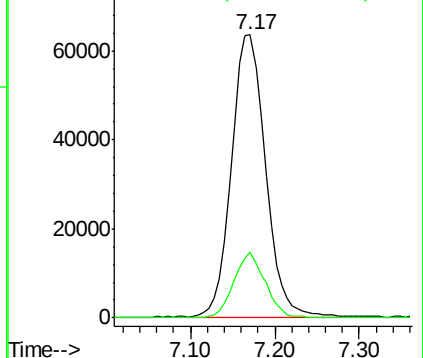
43 100

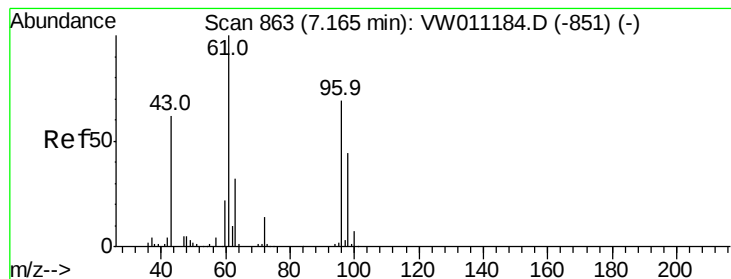
72 21.1 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 25.487 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

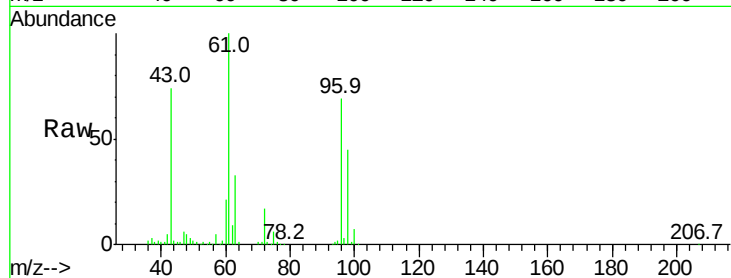
Tgt Ion: 96 Resp: 157838

Ion Ratio Lower Upper

96 100

61 145.4 103.2 191.6

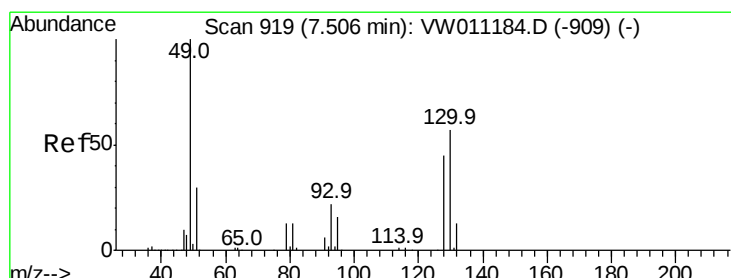
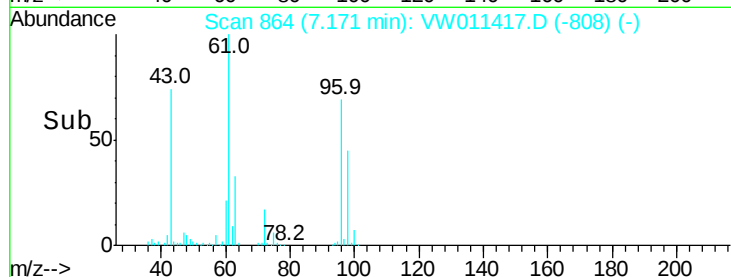
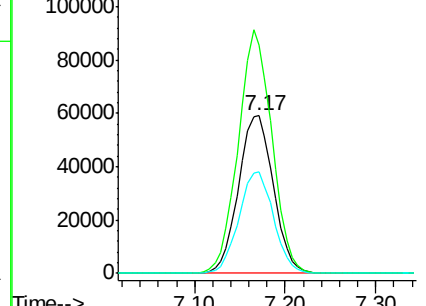
98 64.8 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#23

Bromochloromethane

Concen: 25.568 ug/L

RT: 7.51 min Scan# 920

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Tgt Ion: 128 Resp: 66441

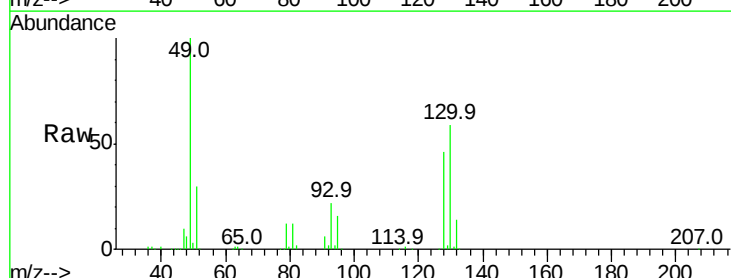
Ion Ratio Lower Upper

128 100

49 217.1 153.8 285.6

130 128.3 86.4 160.4

51 66.1 56.2 84.4

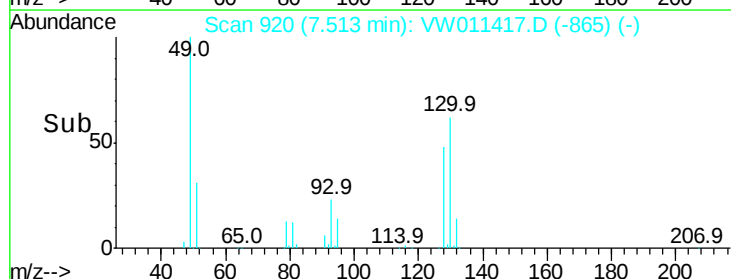
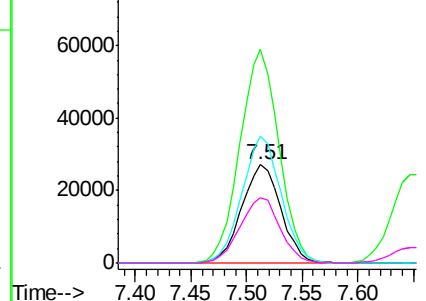


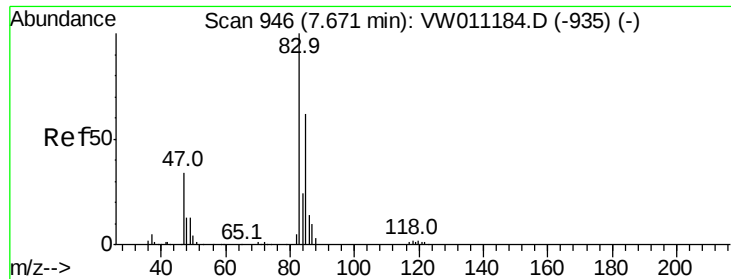
Abundance Ion 128.00 (127.70 to 128.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): VW

Ion 51.00 (50.70 to 51.70): VW

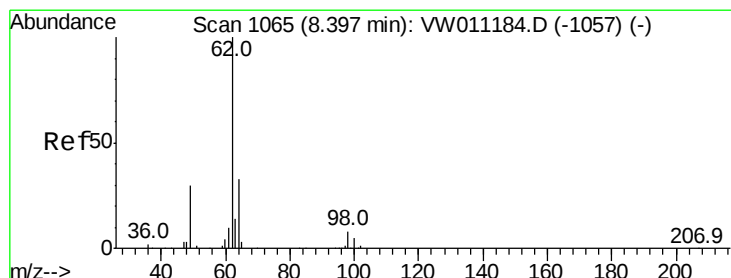
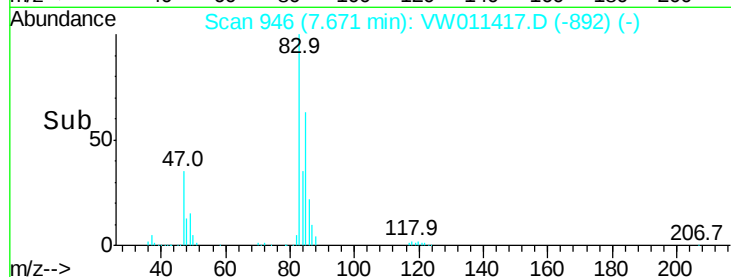
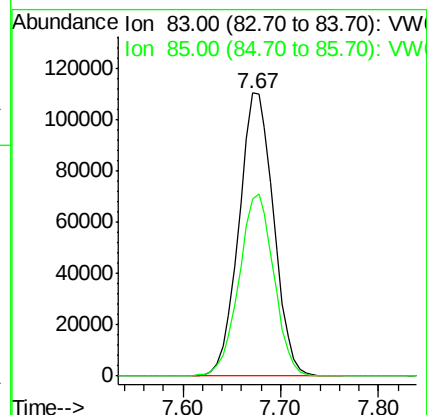
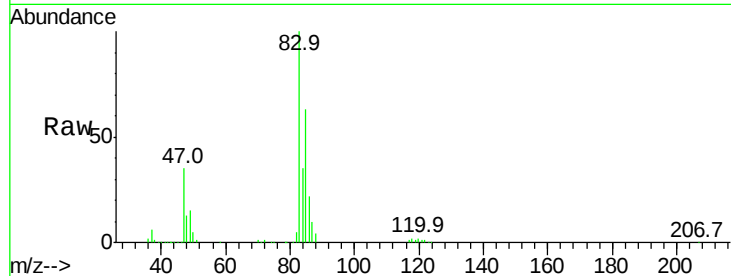




#25  
Chloroform  
Concen: 24.726 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

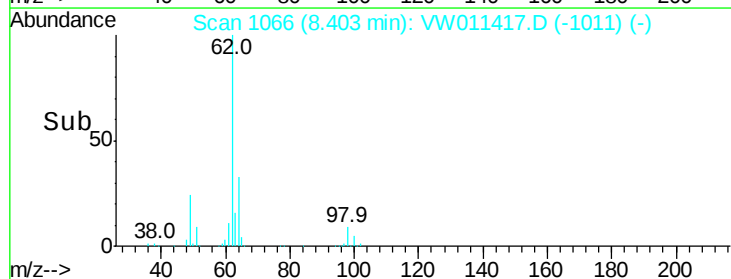
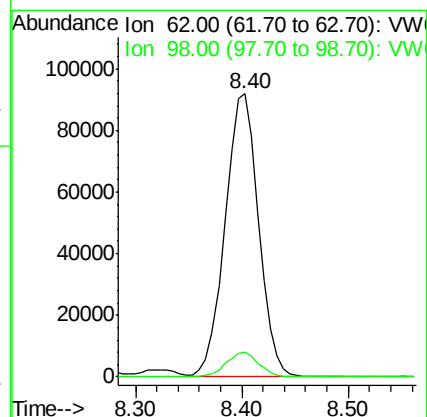
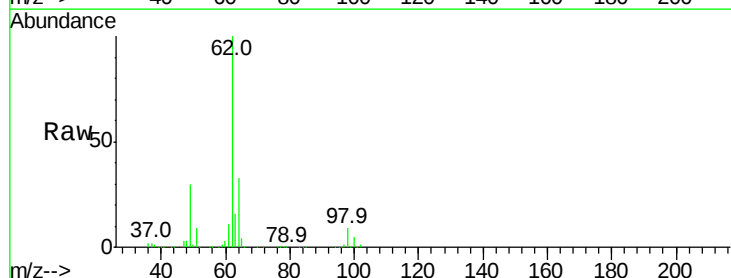
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

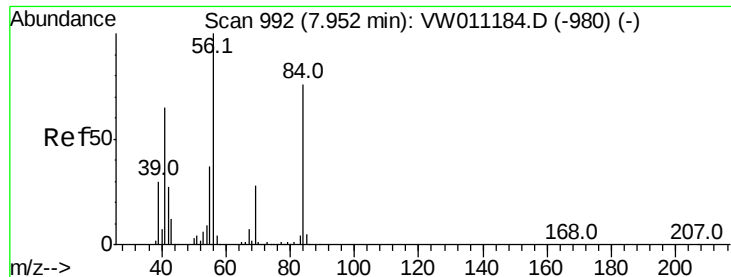
Tgt Ion: 83 Resp: 272029  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 23.965 ug/L  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion: 62 Resp: 201547  
Ion Ratio Lower Upper  
62 100  
98 8.9 6.6 10.0

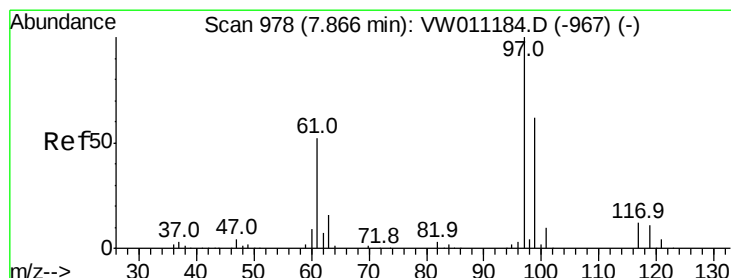
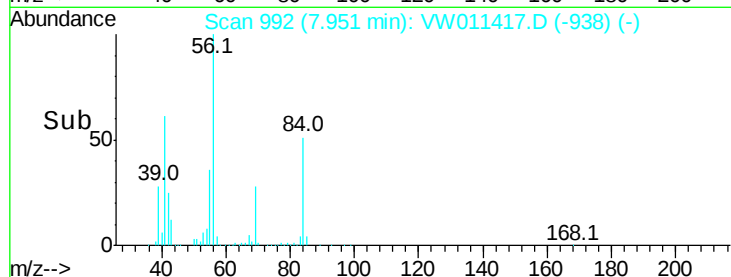
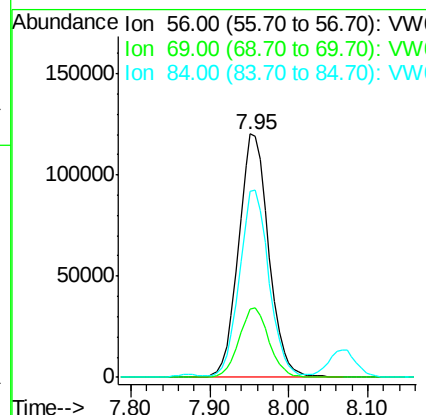
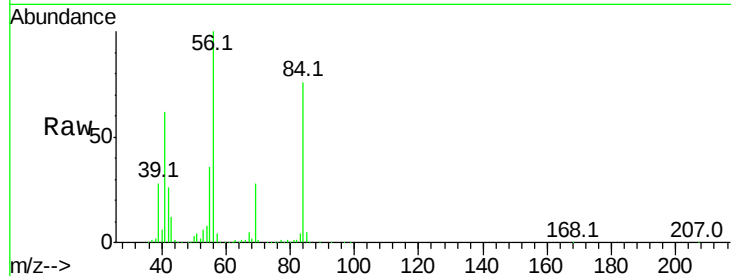




#30  
Cyclohexane  
Concen: 27.684 ug/L  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

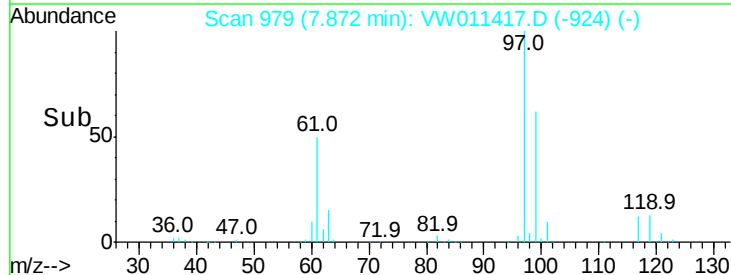
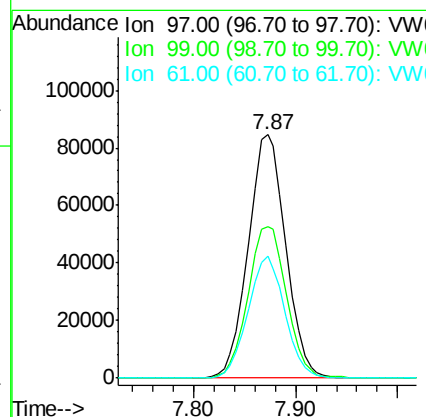
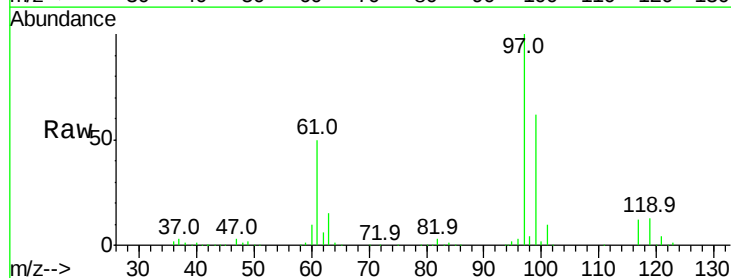
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

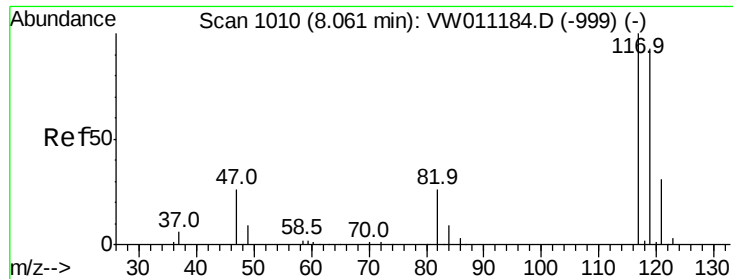
Tgt Ion: 56 Resp: 319597  
Ion Ratio Lower Upper  
56 100  
69 28.3 22.5 33.7  
84 75.5 60.9 91.3



#31  
1,1,1-Trichloroethane  
Concen: 27.458 ug/L  
RT: 7.87 min Scan# 979  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion: 97 Resp: 216387  
Ion Ratio Lower Upper  
97 100  
99 63.8 50.6 75.8  
61 49.3 40.9 61.3





#32

Carbon tetrachloride

Concen: 27.324 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

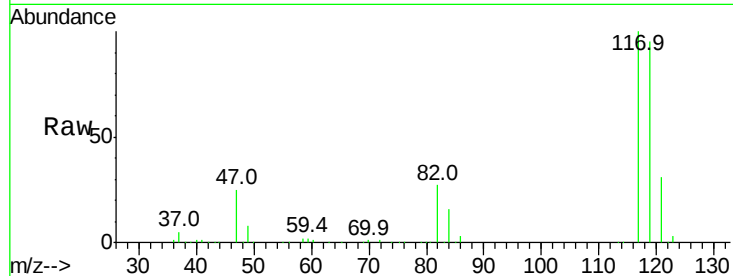
VSTD02506

Tgt Ion:117 Resp: 201945

Ion Ratio Lower Upper

117 100

119 95.7 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

80000

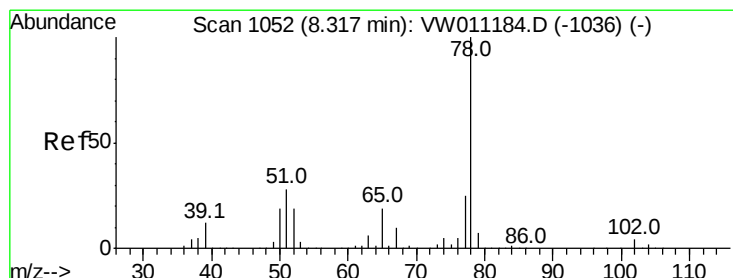
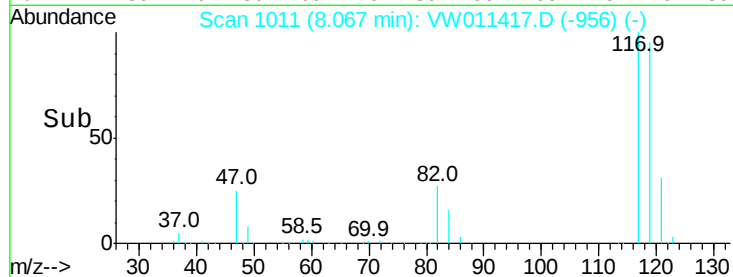
60000

40000

20000

0

Time-->



#34

Benzene

Concen: 26.749 ug/L

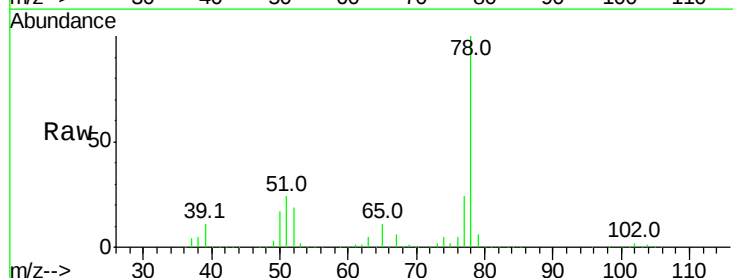
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Tgt Ion: 78 Resp: 634777



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

300000

250000

200000

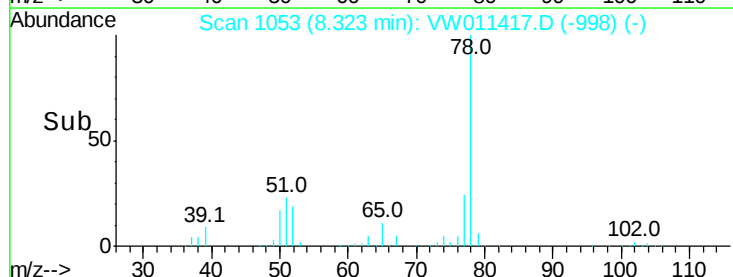
150000

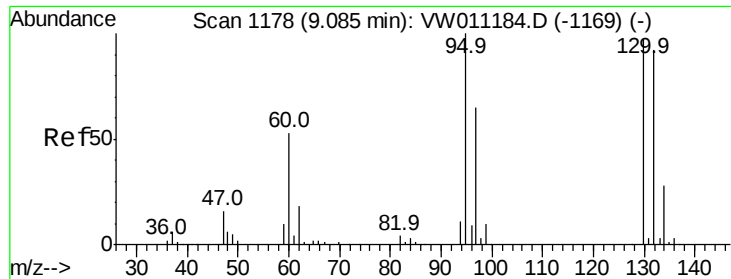
100000

50000

0

Time-->





#35

Trichloroethene

Concen: 26.297 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

Tgt Ion: 95 Resp: 157479

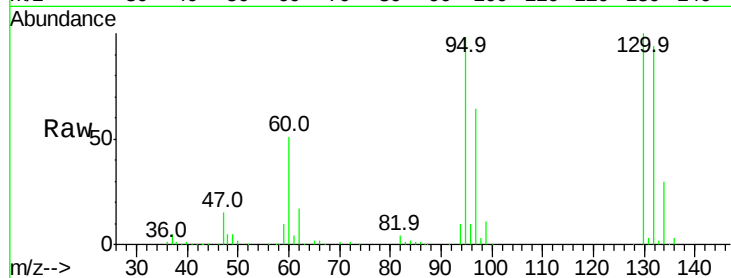
Ion Ratio Lower Upper

95 100

97 63.7 45.4 84.2

132 94.3 65.0 120.8

130 97.7 67.8 126.0



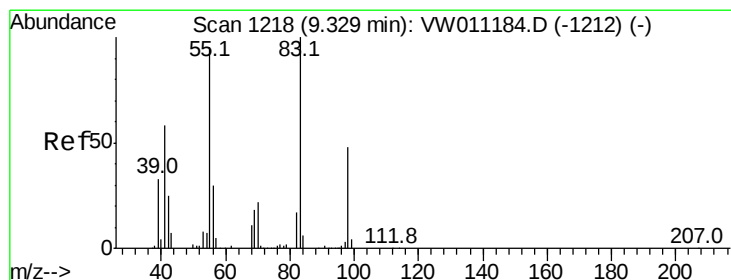
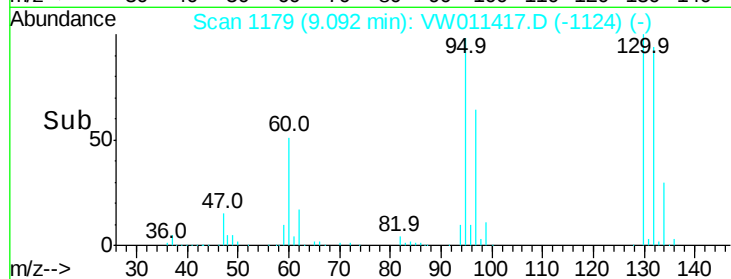
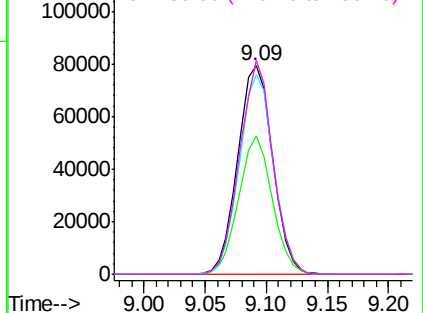
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 27.337 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

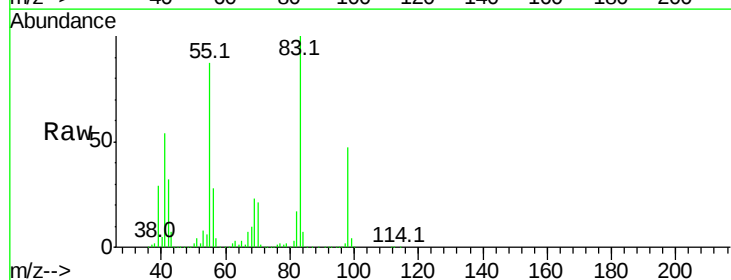
Tgt Ion: 83 Resp: 294609

Ion Ratio Lower Upper

83 100

55 89.4 72.2 108.4

98 46.8 38.2 57.4

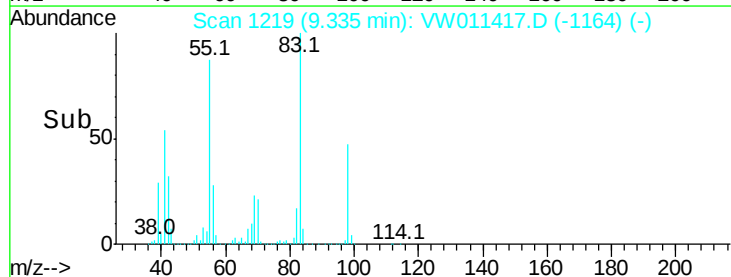
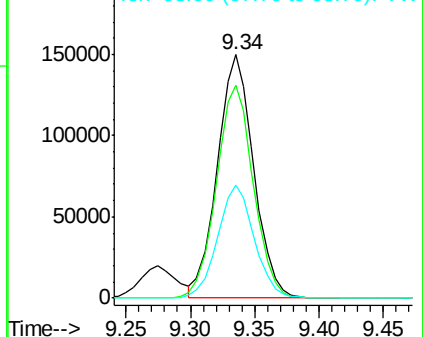


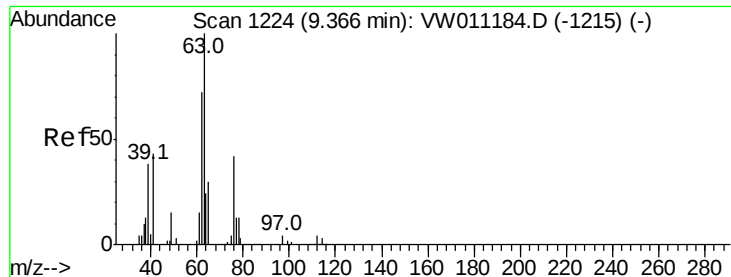
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 26.029 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

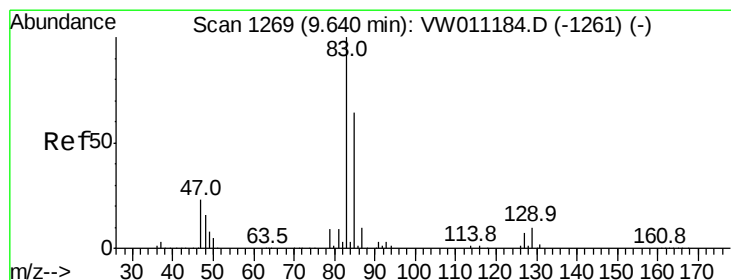
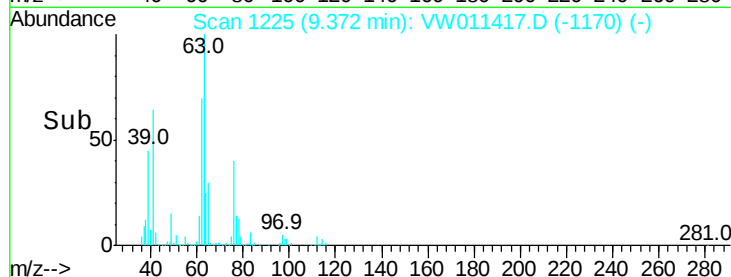
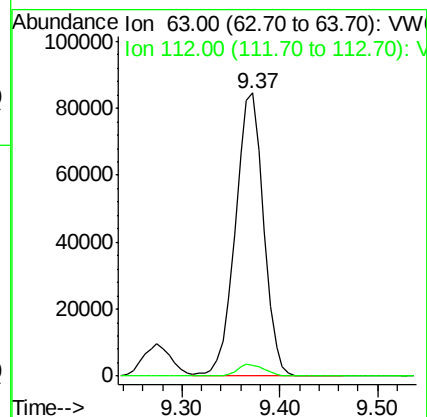
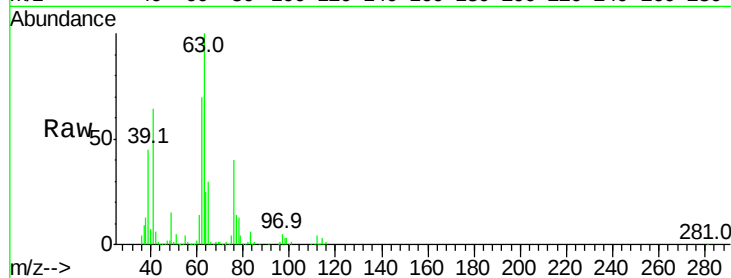
VSTD02506

Tgt Ion: 63 Resp: 169258

Ion Ratio Lower Upper

63 100

112 4.0 3.0 4.6



#41

Bromodichloromethane

Concen: 26.431 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

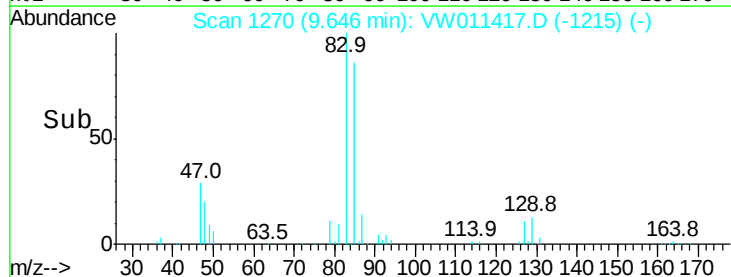
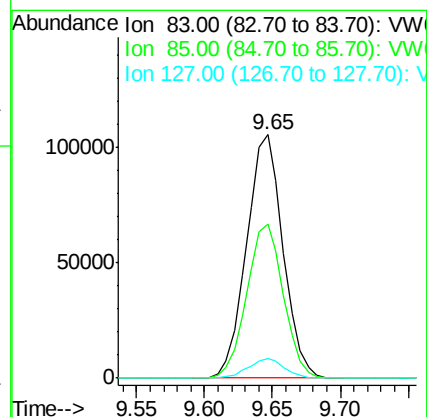
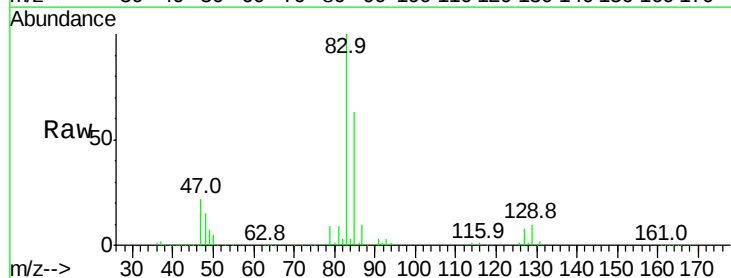
Tgt Ion: 83 Resp: 198159

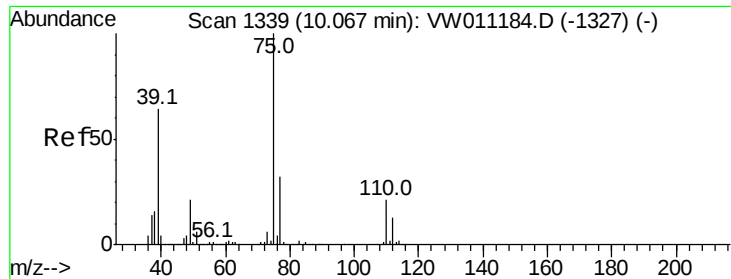
Ion Ratio Lower Upper

83 100

85 63.3 45.5 84.5

127 8.2 5.8 8.8

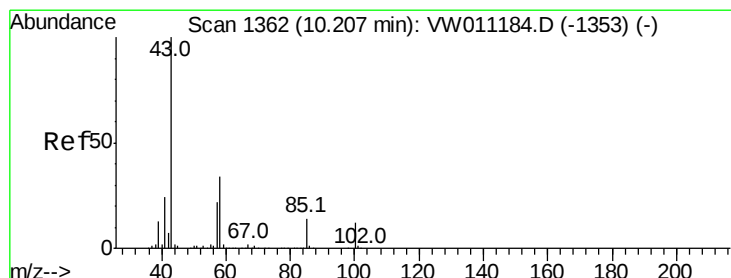
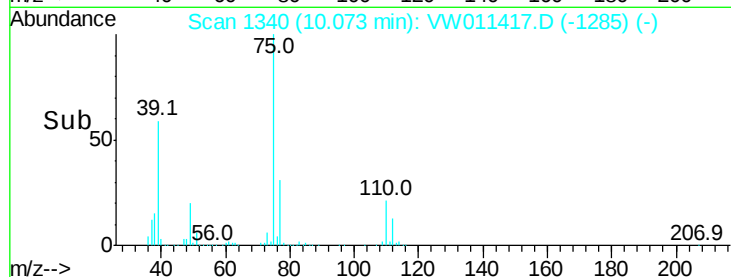
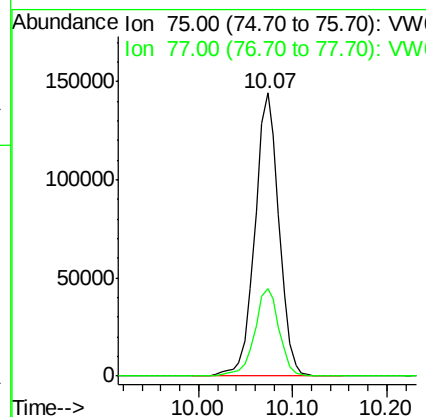
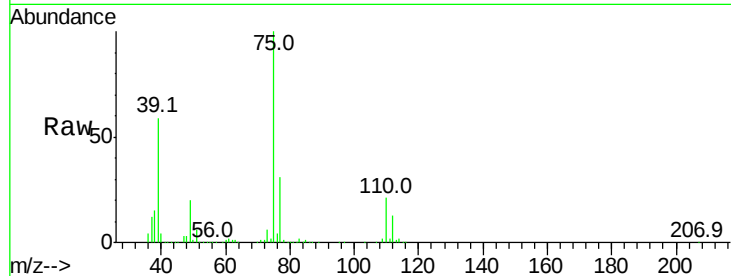




#42  
 cis-1,3-Dichloropropene  
 Concen: 27.021 ug/L  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.01 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

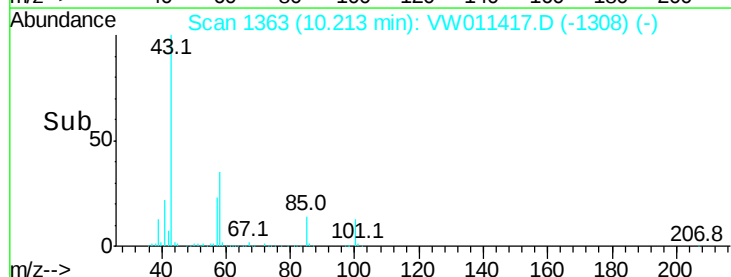
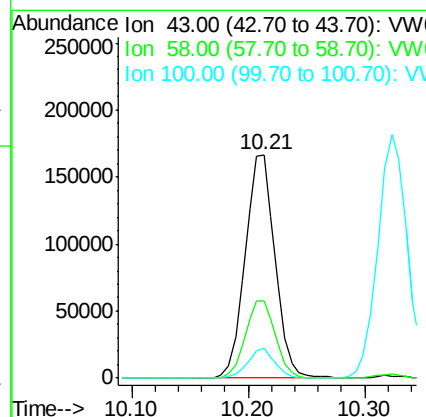
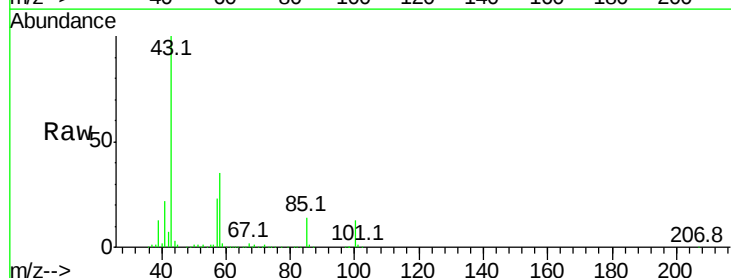
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

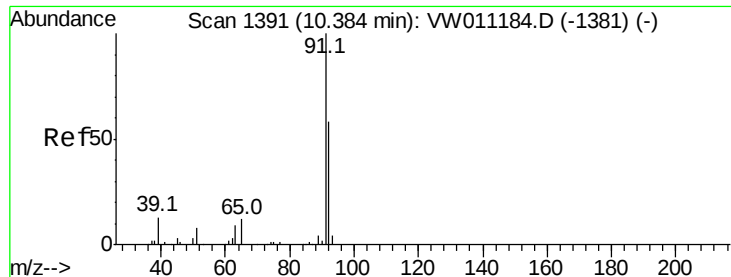
Tgt Ion: 75 Resp: 259258  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 21.1 39.1



#43  
 4-Methyl-2-pentanone  
 Concen: 49.436 ug/L  
 RT: 10.21 min Scan# 1363  
 Delta R.T. 0.01 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Tgt Ion: 43 Resp: 298004  
 Ion Ratio Lower Upper  
 43 100  
 58 35.0 28.1 42.1  
 100 12.3 9.3 13.9





#44

Toluene

Concen: 26.475 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

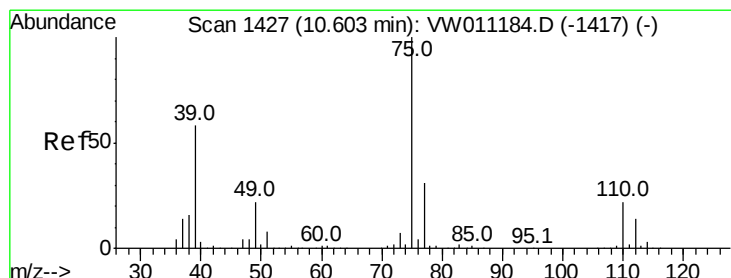
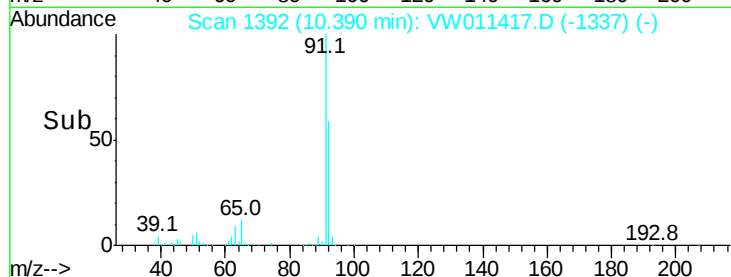
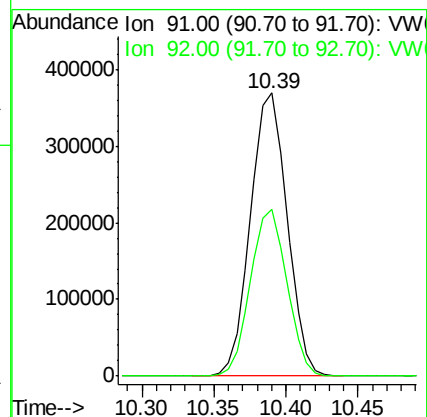
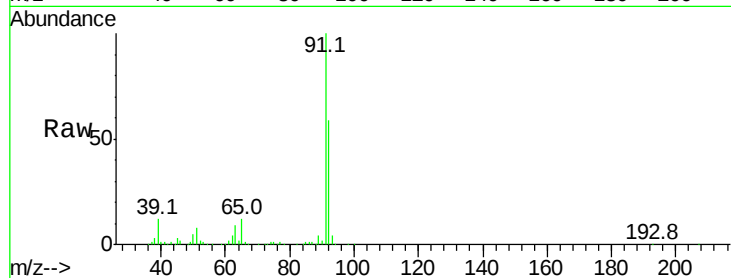
VSTD02506

Tgt Ion: 91 Resp: 650318

Ion Ratio Lower Upper

91 100

92 58.8 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 26.626 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011417.D

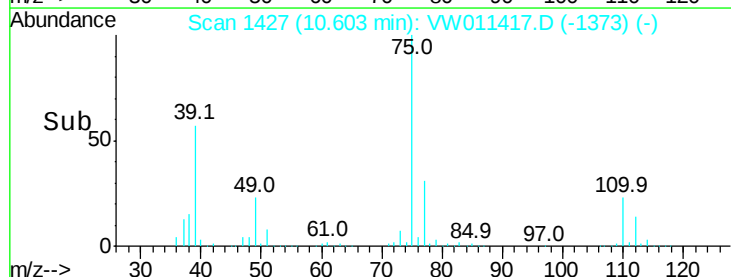
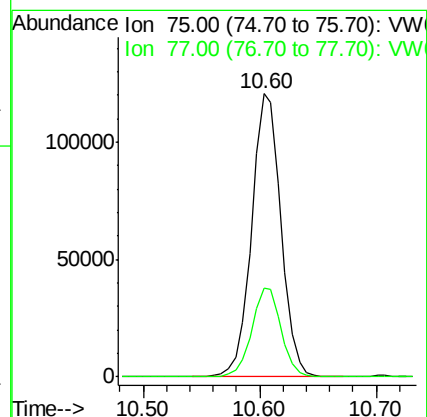
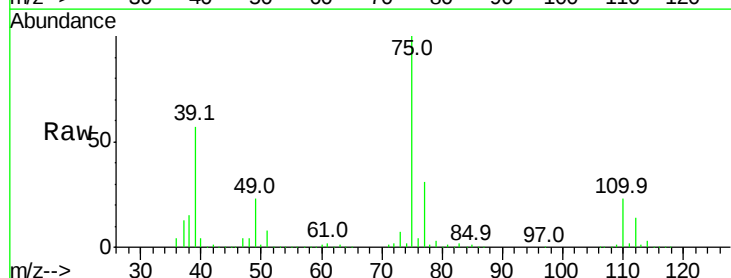
Acq: 22 Jul 2019 13:10

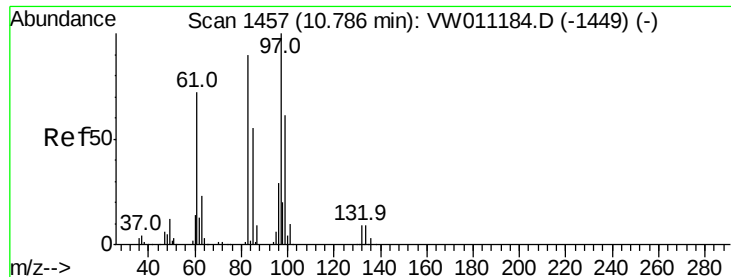
Tgt Ion: 75 Resp: 211388

Ion Ratio Lower Upper

75 100

77 31.2 22.3 41.5

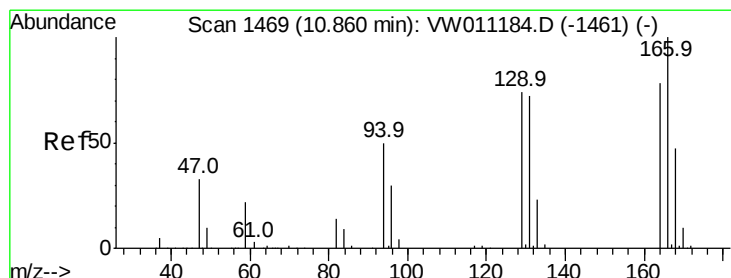
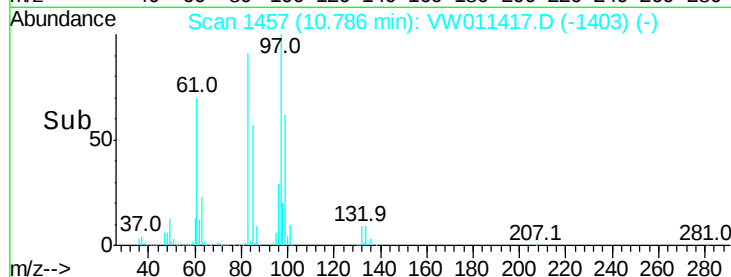
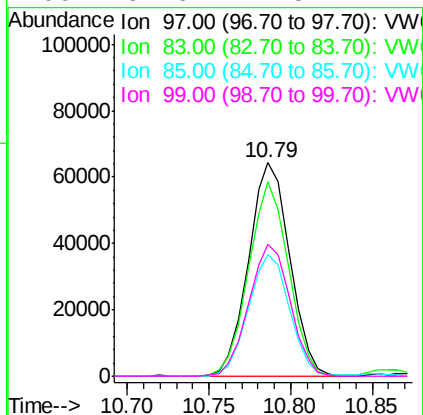
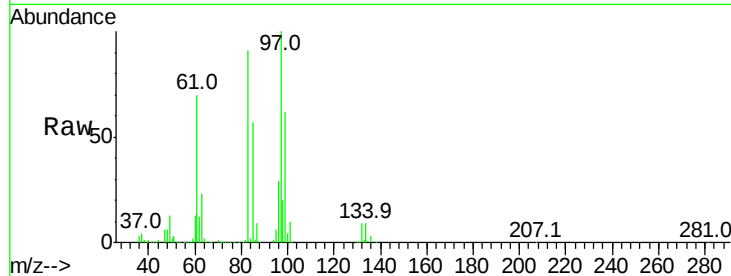




#46  
 1,1,2-Trichloroethane  
 Concen: 25.079 ug/L  
 RT: 10.79 min Scan# 1457  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

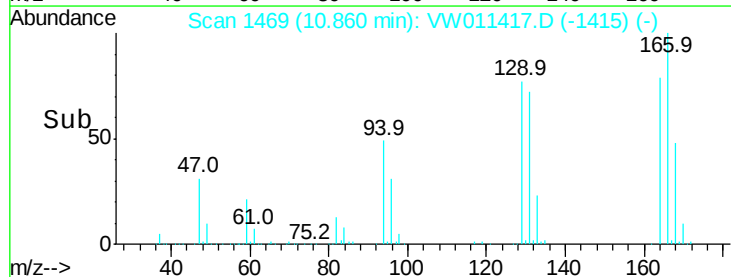
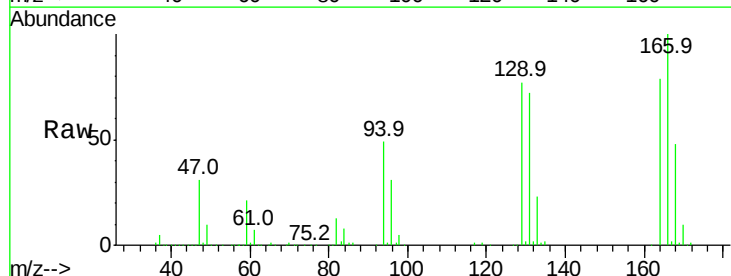
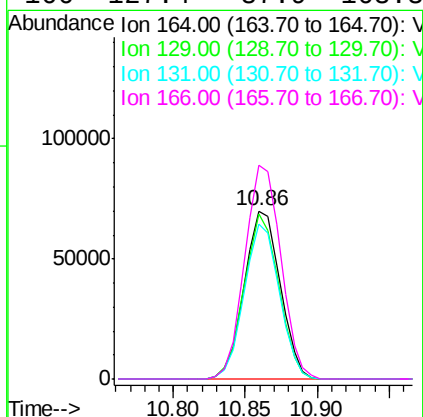
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

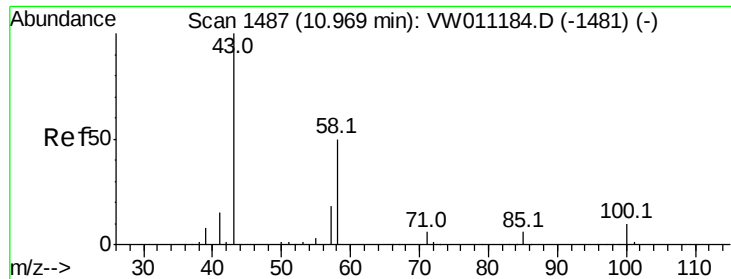
Tgt Ion: 97 Resp: 112936  
 Ion Ratio Lower Upper  
 97 100  
 83 91.2 63.1 117.3  
 85 57.2 39.0 72.4  
 99 61.6 41.5 77.1



#47  
 Tetrachloroethene  
 Concen: 26.788 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Tgt Ion: 164 Resp: 121242  
 Ion Ratio Lower Upper  
 164 100  
 129 98.5 68.5 127.1  
 131 92.1 64.8 120.4  
 166 127.4 87.9 163.3

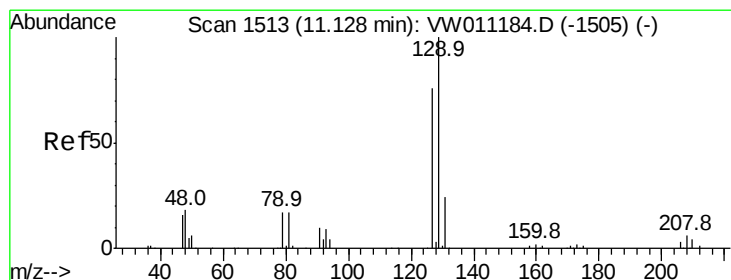
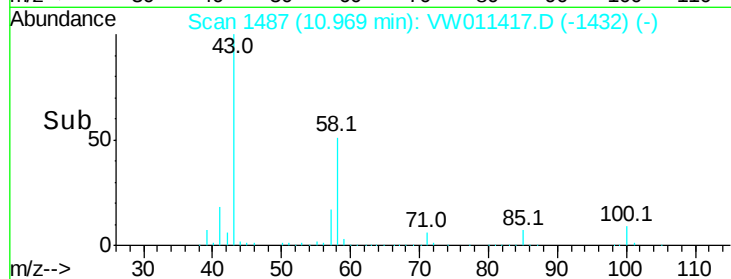
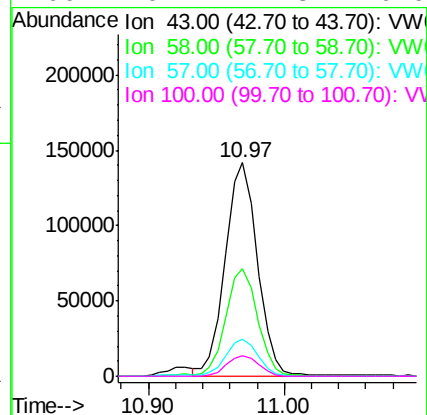
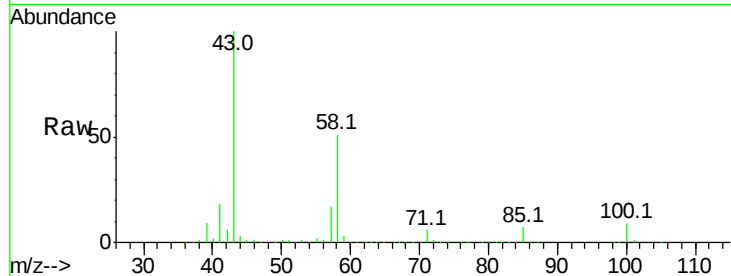




#49  
2-Hexanone  
Concen: 53.086 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.01 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

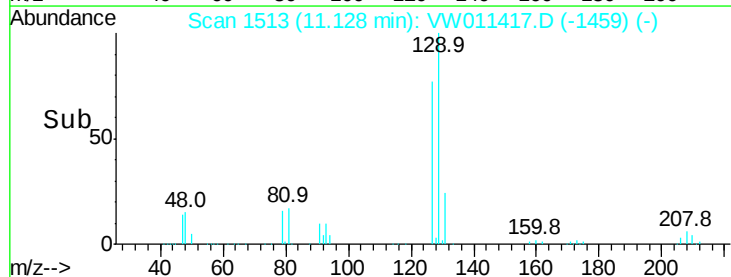
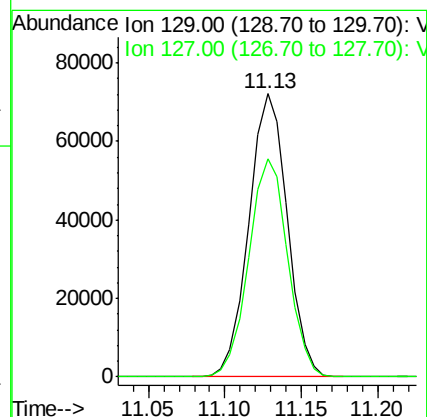
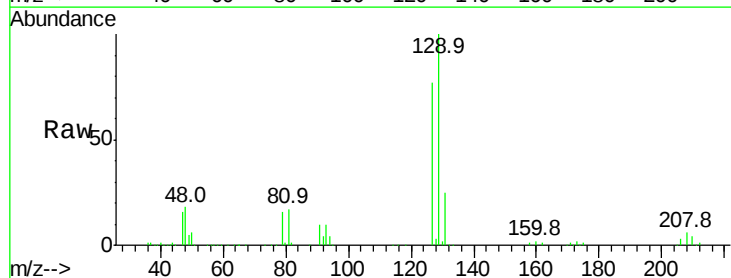
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

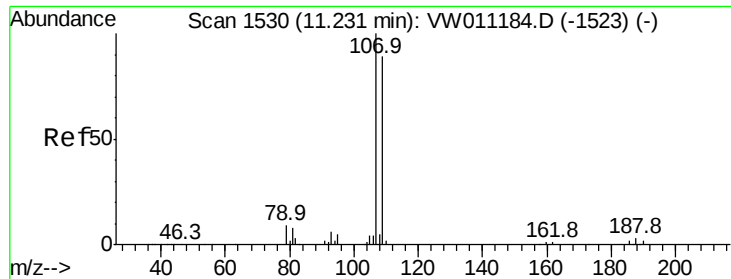
Tgt Ion: 43 Resp: 232935  
Ion Ratio Lower Upper  
43 100  
58 50.1 38.4 57.6  
57 17.2 13.3 19.9  
100 9.7 7.3 10.9



#50  
Dibromochloromethane  
Concen: 26.296 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion: 129 Resp: 126098  
Ion Ratio Lower Upper  
129 100  
127 77.0 53.3 99.1

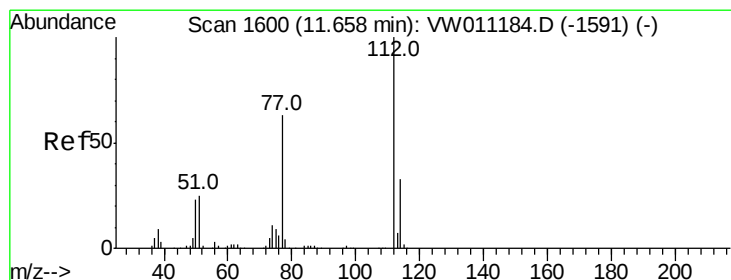
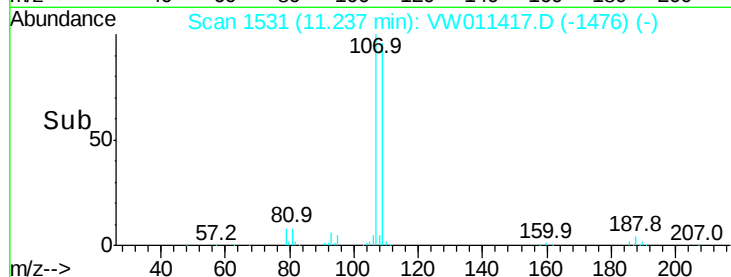
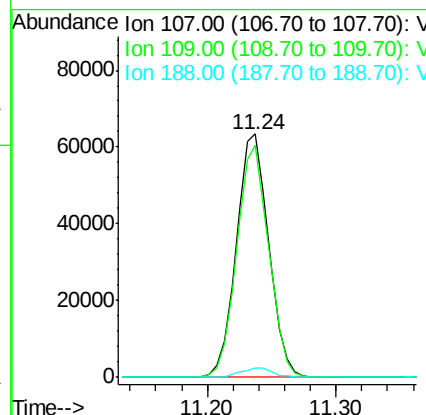
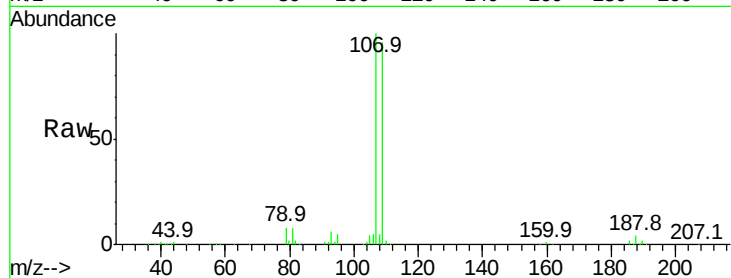




#51  
 1,2-Dibromoethane  
 Concen: 25.427 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.01 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

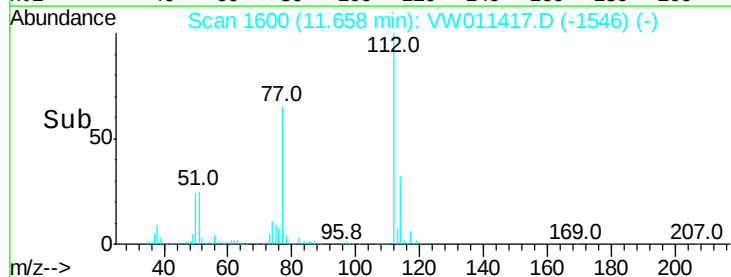
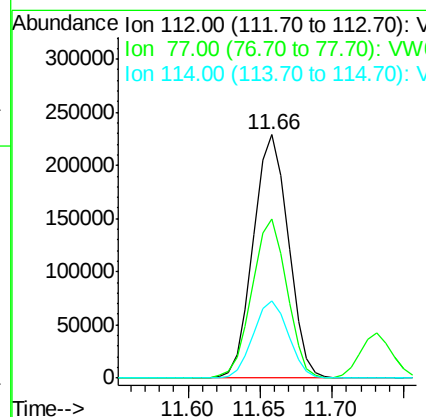
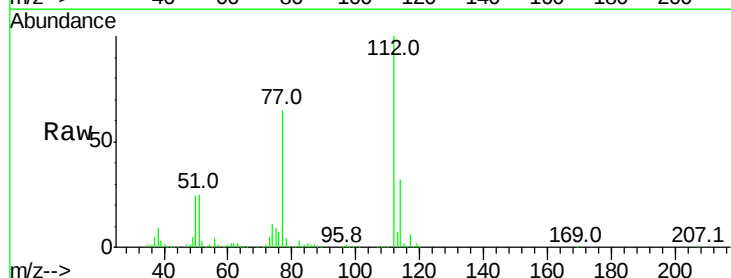
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

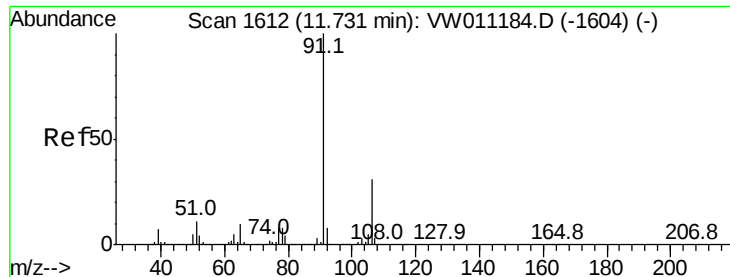
Tgt Ion:107 Resp: 110564  
 Ion Ratio Lower Upper  
 107 100  
 109 95.5 64.3 119.3  
 188 3.8 3.2 4.8



#52  
 Chlorobenzene  
 Concen: 25.620 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Tgt Ion:112 Resp: 384471  
 Ion Ratio Lower Upper  
 112 100  
 77 65.2 51.2 76.8  
 114 31.5 22.0 40.8





#53

Ethylbenzene

Concen: 26.062 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampled :

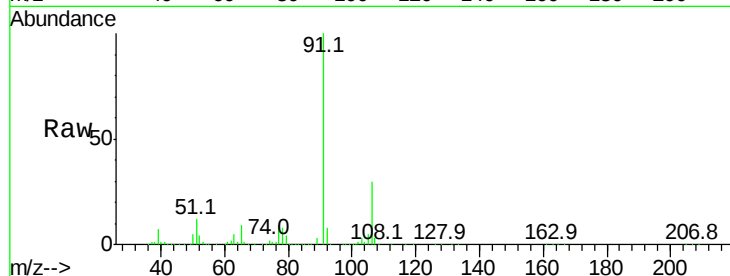
VSTD02506

Tgt Ion: 91 Resp: 726138

Ion Ratio Lower Upper

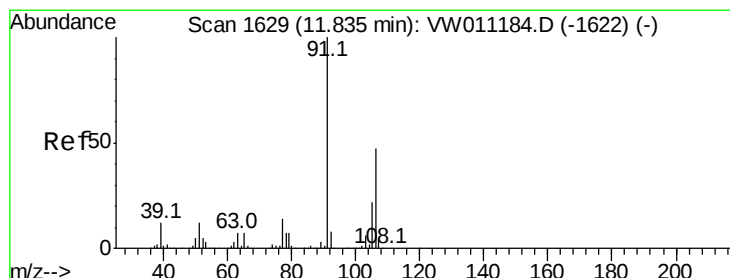
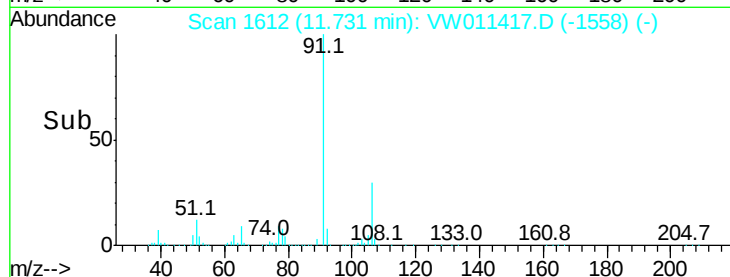
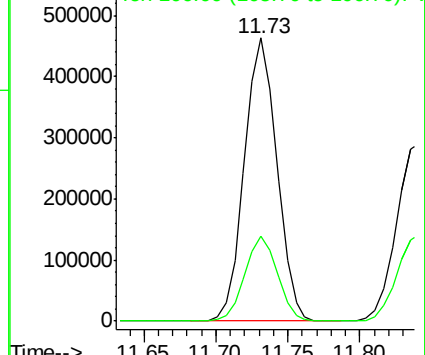
91 100

106 30.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 26.383 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW011417.D

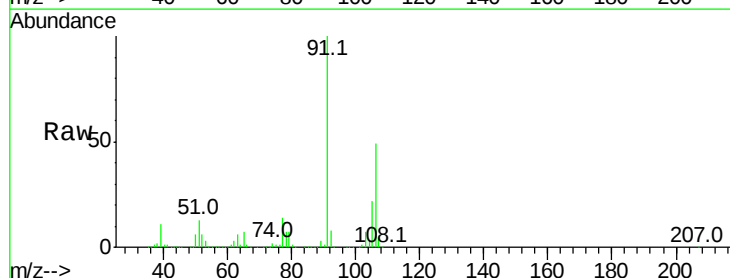
Acq: 22 Jul 2019 13:10

Tgt Ion:106 Resp: 266889

Ion Ratio Lower Upper

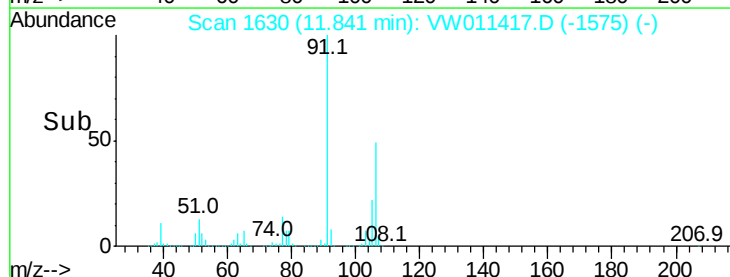
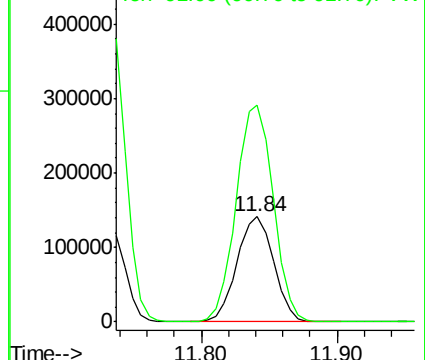
106 100

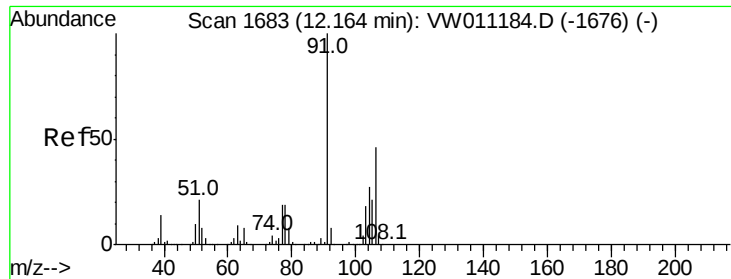
91 205.3 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

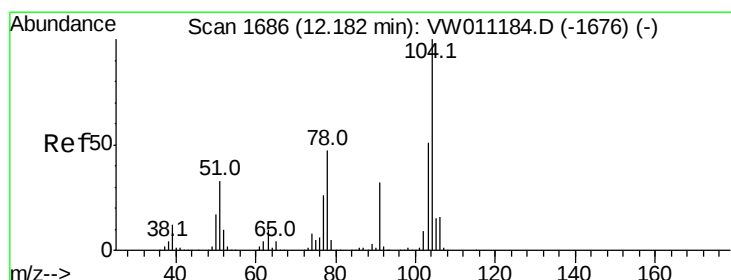
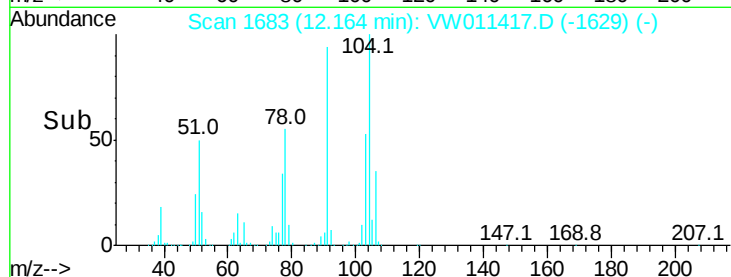
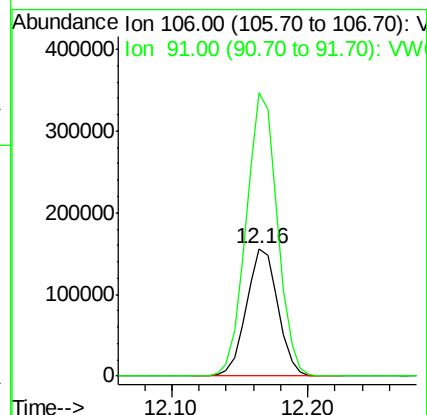
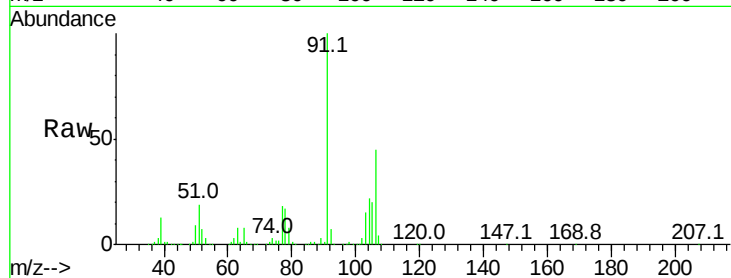




#55  
o-xylene  
Concen: 26.210 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.00 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

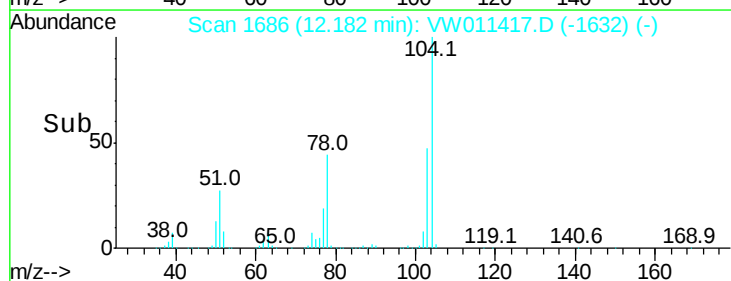
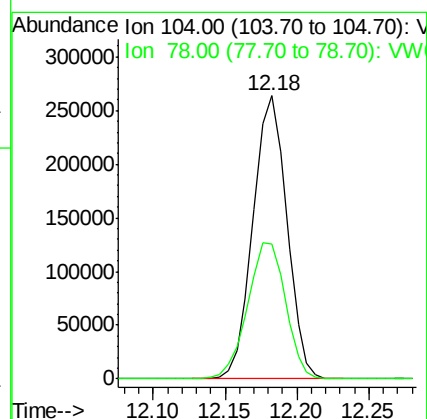
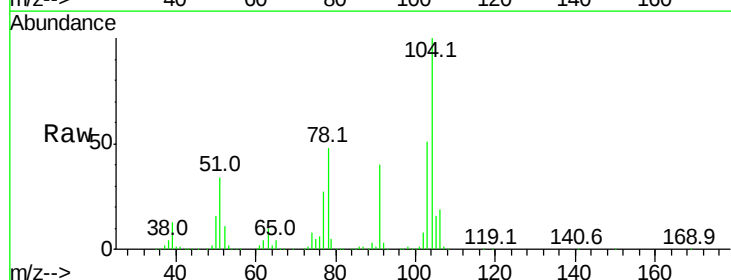
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02506

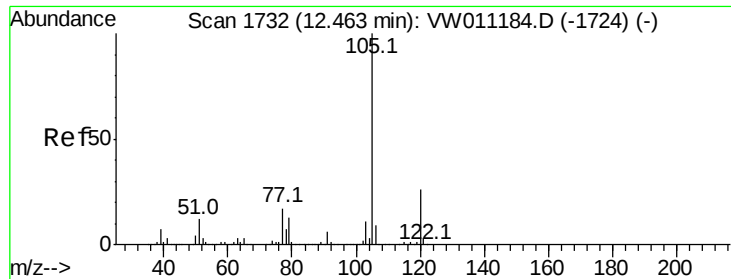
Tgt Ion:106 Resp: 252224  
Ion Ratio Lower Upper  
106 100  
91 222.2 154.6 287.2



#56  
Styrene  
Concen: 26.013 ug/L  
RT: 12.18 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: VW011417.D  
Acq: 22 Jul 2019 13:10

Tgt Ion:104 Resp: 429410  
Ion Ratio Lower Upper  
104 100  
78 47.8 33.7 62.7





#57

Isopropylbenzene

Concen: 26.307 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

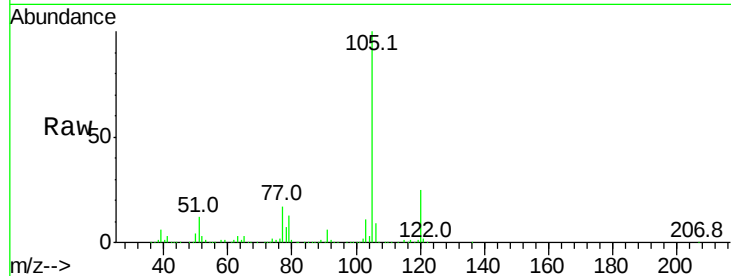
Tgt Ion:105 Resp: 691053

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

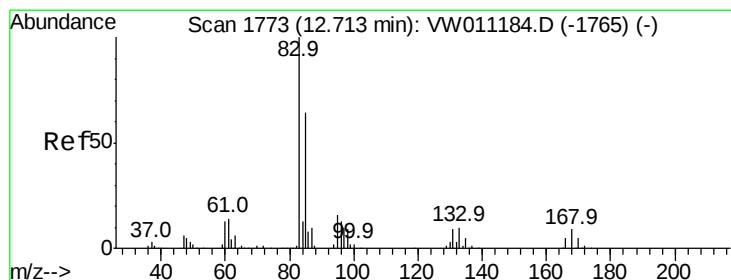
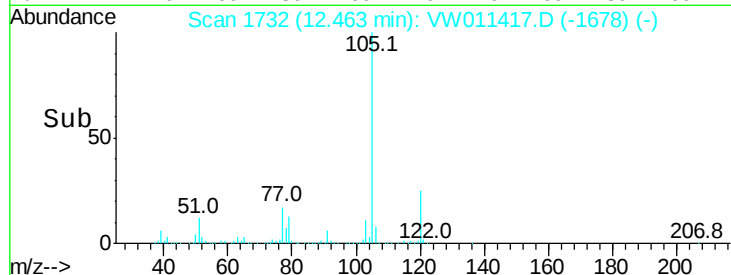
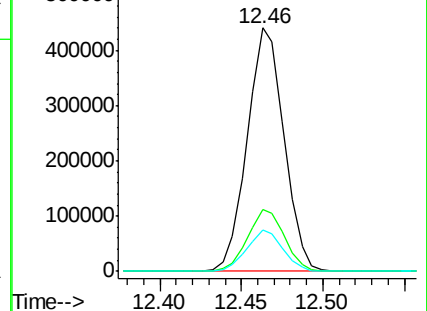
77 16.6 13.5 20.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.736 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

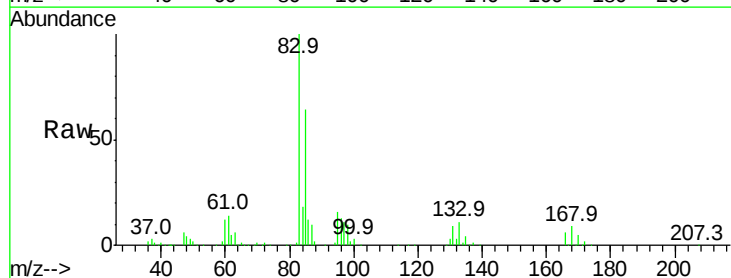
Tgt Ion: 83 Resp: 148189

Ion Ratio Lower Upper

83 100

85 64.5 44.0 81.6

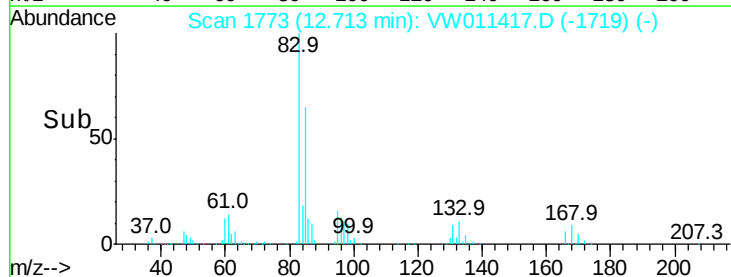
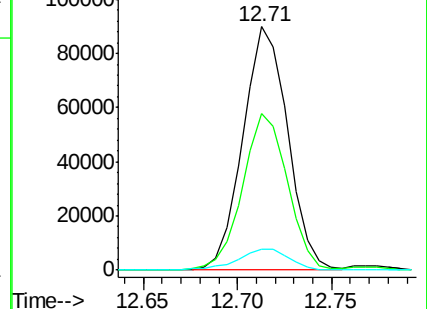
131 8.8 6.7 10.1

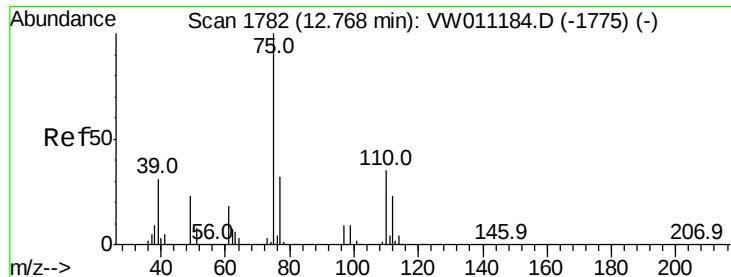


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.864 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

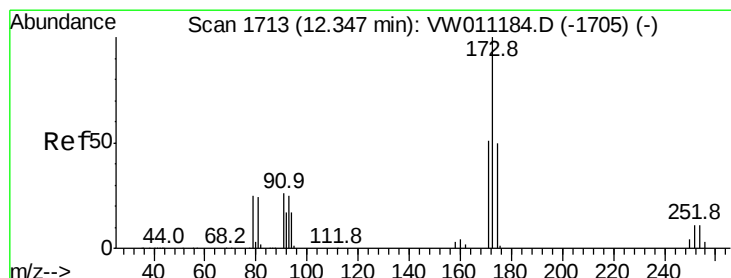
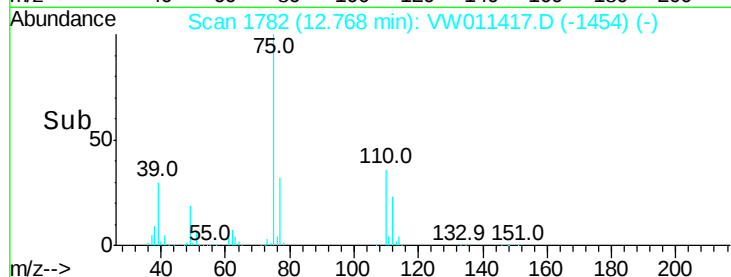
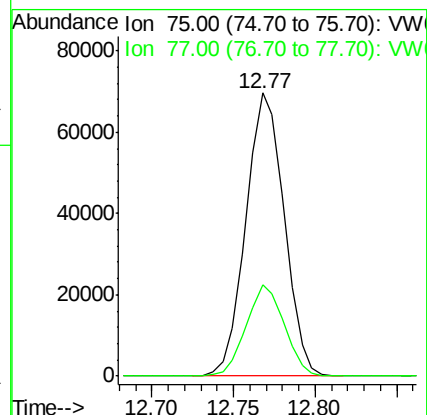
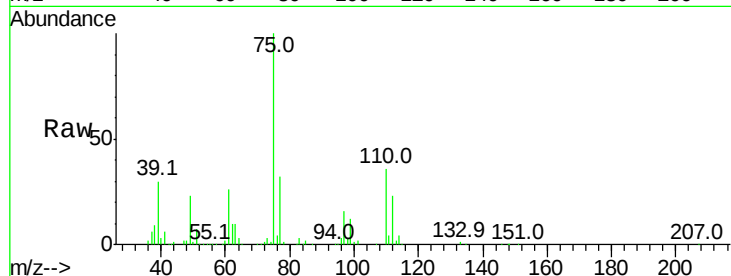
VSTD02506

Tgt Ion: 75 Resp: 114391

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.0



#62

Bromoform

Concen: 27.712 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

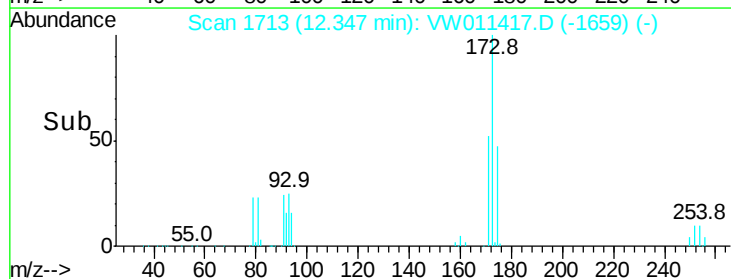
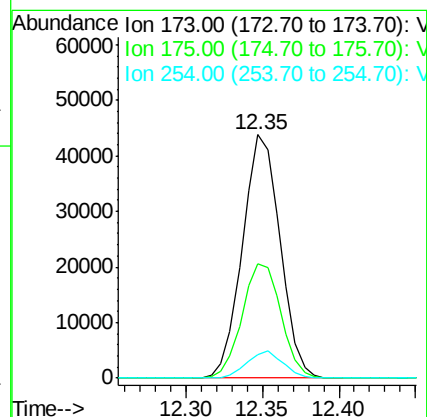
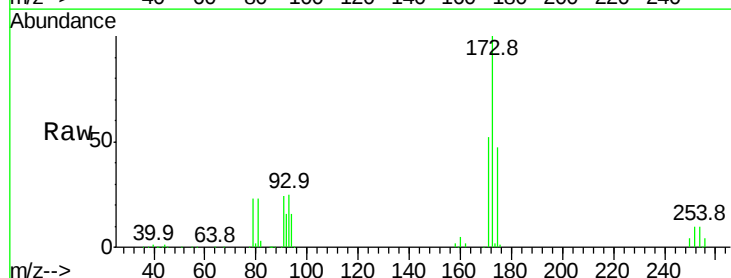
Tgt Ion: 173 Resp: 75022

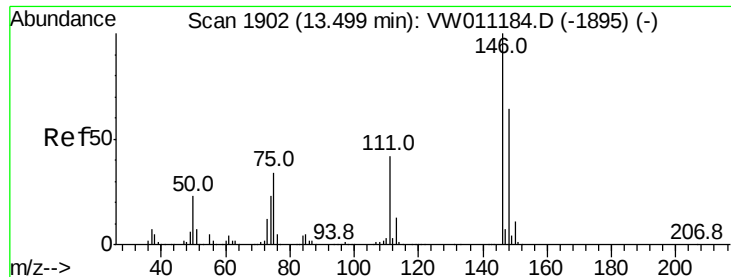
Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.6

254 10.6 8.5 12.7

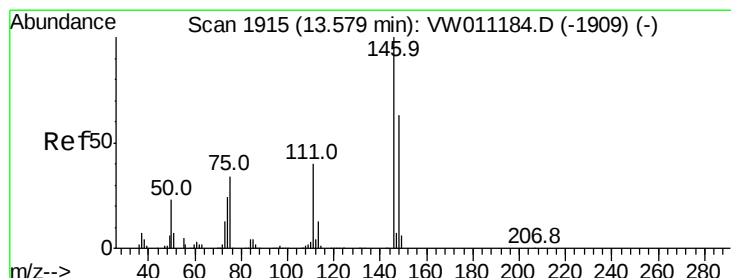
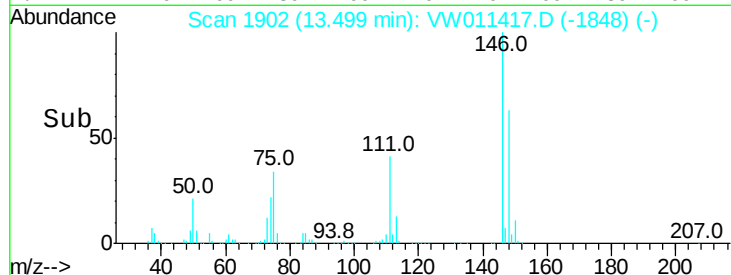
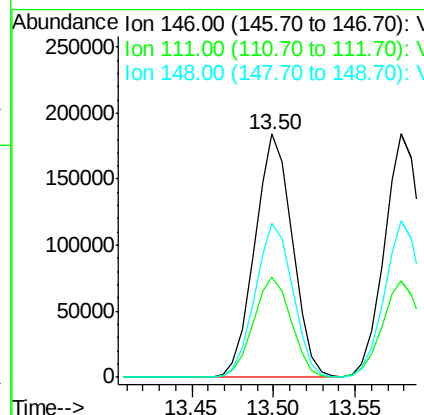
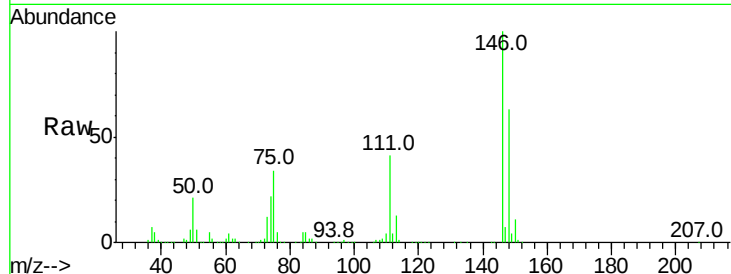




#63  
 1,3-Dichlorobenzene  
 Concen: 26.454 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

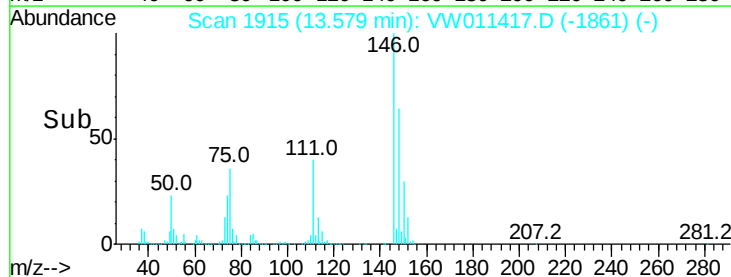
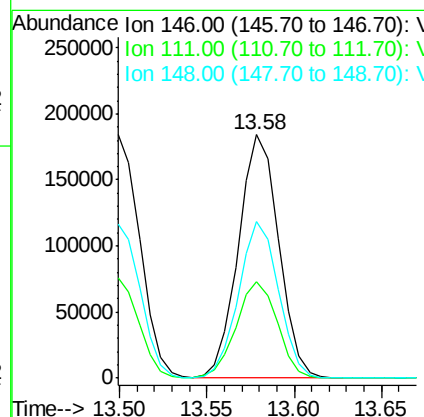
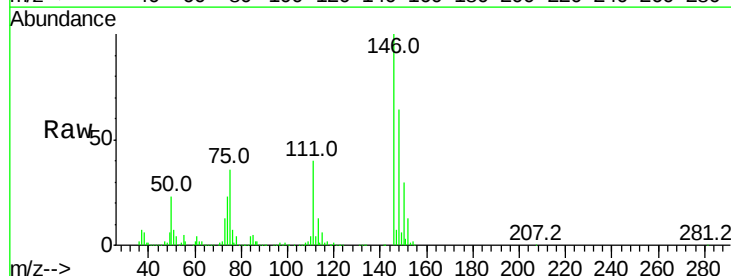
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

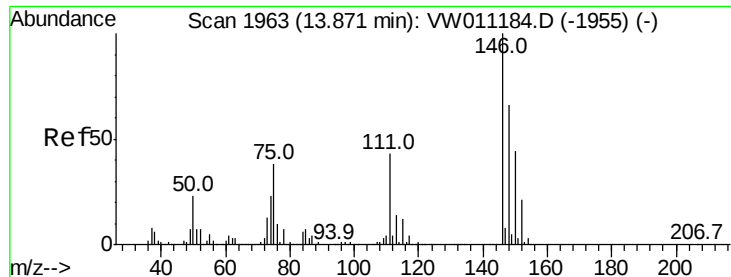
Tgt Ion:146 Resp: 295648  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 29.0 53.8  
 148 63.3 44.4 82.5



#64  
 1,4-Dichlorobenzene  
 Concen: 25.879 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Tgt Ion:146 Resp: 296075  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 27.5 51.1  
 148 64.2 43.8 81.3

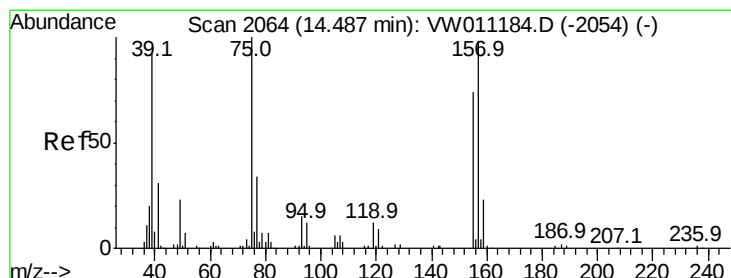
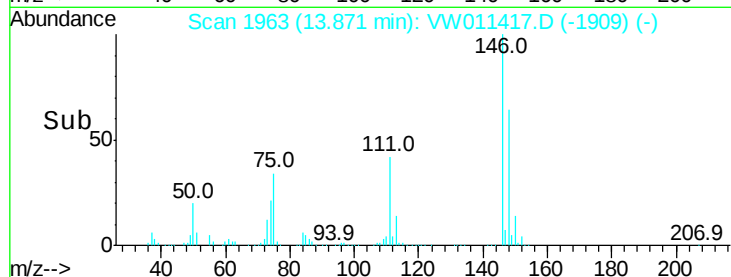
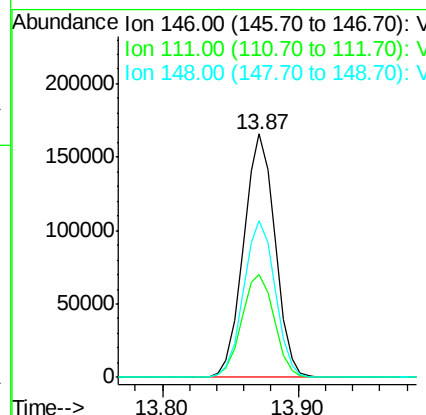
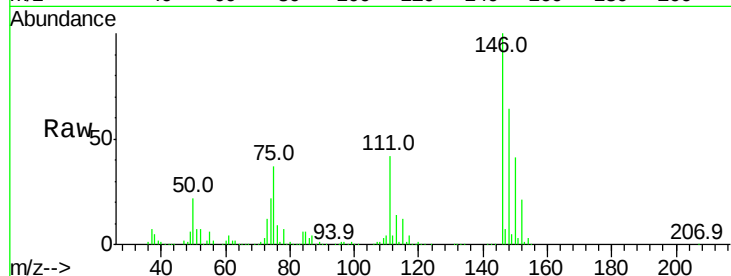




#65  
 1,2-Dichlorobenzene  
 Concen: 25.793 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

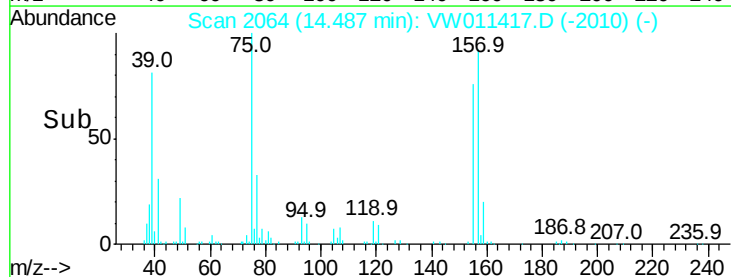
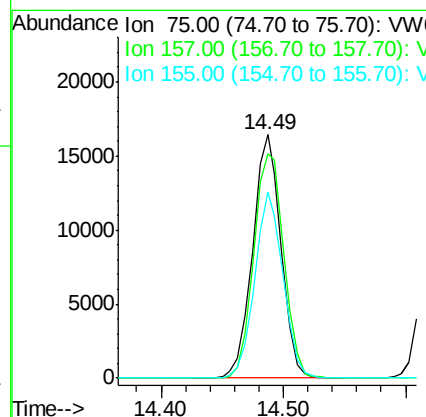
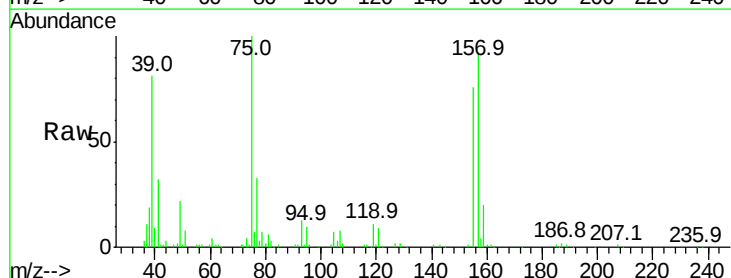
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

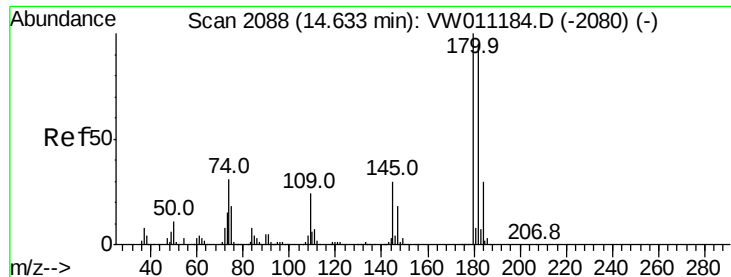
Tgt Ion: 146 Resp: 268316  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 34.1 51.1  
 148 64.5 51.0 76.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 25.912 ug/L  
 RT: 14.49 min Scan# 2064  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Tgt Ion: 75 Resp: 26465  
 Ion Ratio Lower Upper  
 75 100  
 157 92.1 75.3 112.9  
 155 76.3 60.2 90.2

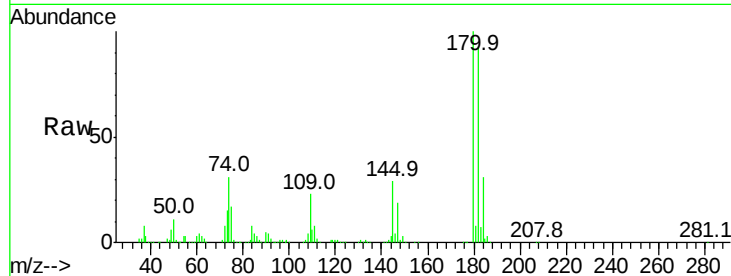




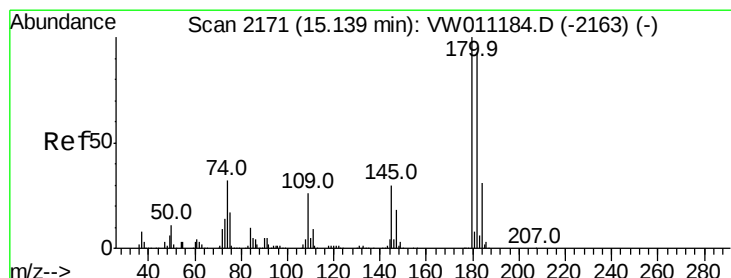
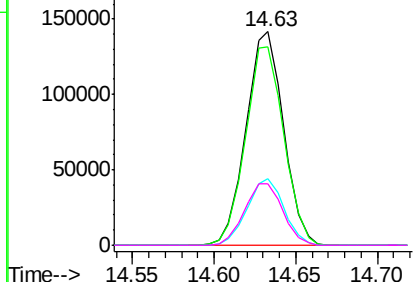
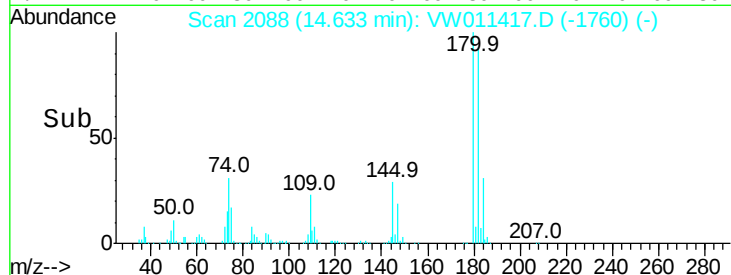
#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.734 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02506

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 226371 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.1  | 77.0  | 115.4  |
| 184      | 30.9  | 24.3  | 36.5   |
| 145      | 29.7  | 24.2  | 36.2   |

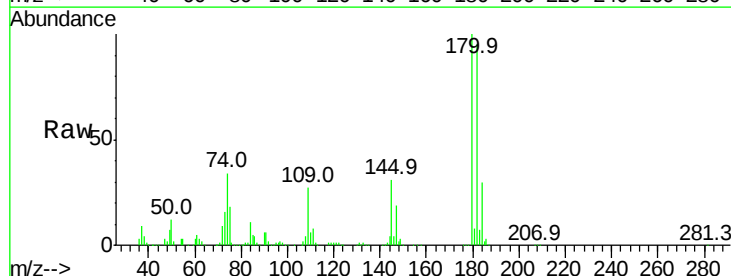


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

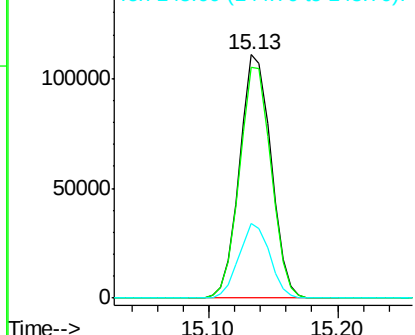
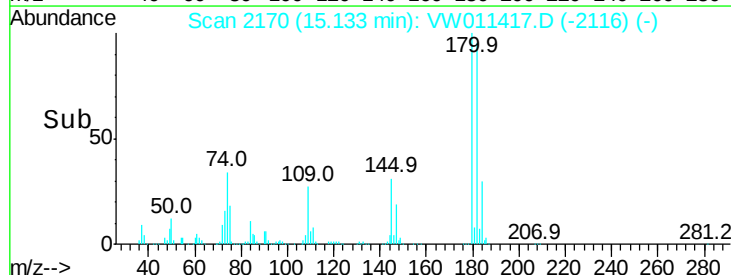


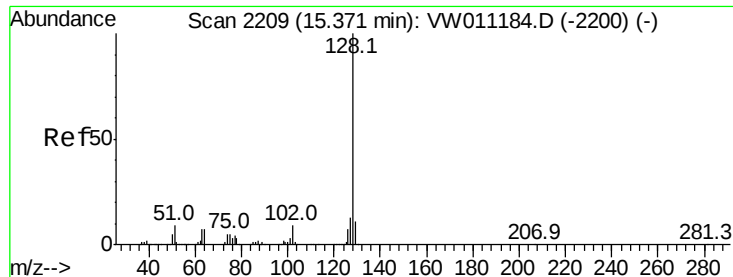
#68  
 1,2,4-trichlorobenzene  
 Concen: 26.426 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW011417.D  
 Acq: 22 Jul 2019 13:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 187458 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.5  | 77.0  | 115.6  |
| 145      | 30.2  | 24.5  | 36.7   |



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





#69

Naphthalene

Concen: 26.859 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02506

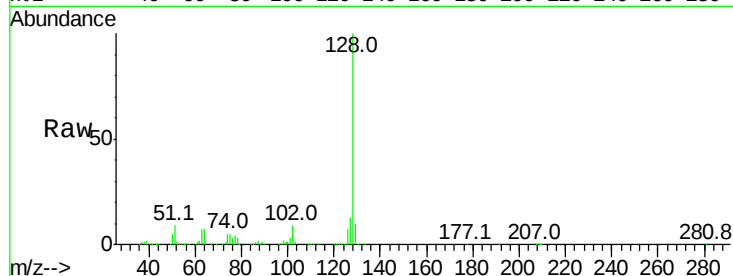
Tgt Ion:128 Resp: 399030

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.4

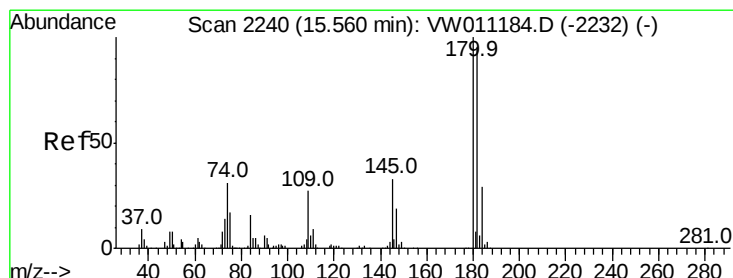
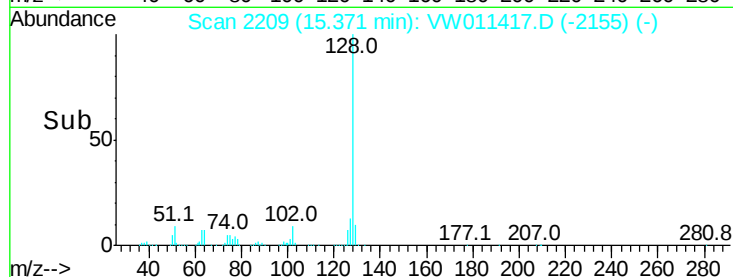
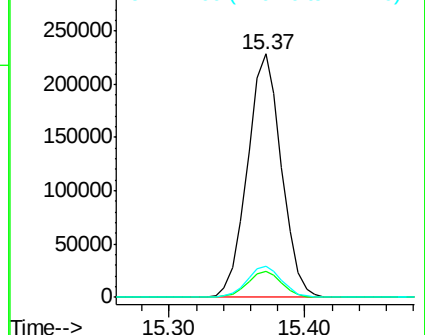
127 13.1 10.6 15.8



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: 26.253 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011417.D

Acq: 22 Jul 2019 13:10

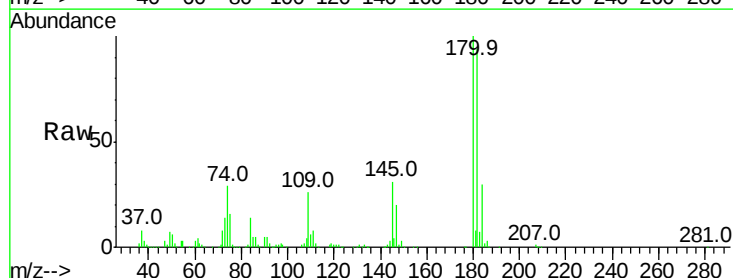
Tgt Ion:180 Resp: 170394

Ion Ratio Lower Upper

180 100

182 94.8 76.4 114.6

145 31.6 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

