

Data File : VW009926.D  
Acq On : 11 Apr 2019 21:23  
Operator : SY/VA  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02528

Quant Time: Apr 12 02:09:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 12 01:59:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 541410   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 512926   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 260205   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 171790   | 24.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.00%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 144008   | 22.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.76%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 412432   | 27.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 108.28% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 109098   | 47.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 94.86%  |
| 24) Chloroform-d               | 7.65   | 84    | 392429   | 26.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.24% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 223623   | 24.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.64%  |
| 29) Benzene-d6                 | 8.27   | 84    | 742115   | 27.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 110.24% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 221762   | 26.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 106.64% |
| 37) Toluene-d8                 | 10.32  | 98    | 680812   | 27.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 109.40% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 98663    | 24.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 99.48%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 81636    | 52.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 104.16% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 188503   | 24.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.52%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 235144   | 25.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.00% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 160630 | 22.523 ug/L | 91     |
| 3) Chloromethane               | 2.21 | 50  | 157436 | 21.361 ug/L | 99     |
| 5) Vinyl chloride              | 2.37 | 62  | 200828 | 21.243 ug/L | 96     |
| 6) Bromomethane                | 2.78 | 94  | 122185 | 18.678 ug/L | 99     |
| 8) Chloroethane                | 2.93 | 64  | 129580 | 20.883 ug/L | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 119202 | 20.554 ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 185673 | 24.613 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 179009 | 24.893 ug/L | 96     |
| 13) Acetone                    | 4.12 | 43  | 107555 | 43.639 ug/L | 98     |
| 14) Carbon disulfide           | 4.38 | 76  | 507770 | 22.717 ug/L | 99     |
| 15) Methyl Acetate             | 4.67 | 43  | 105082 | 23.383 ug/L | 96     |
| 16) Methylene chloride         | 4.91 | 84  | 206502 | 21.627 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 259232 | 26.169 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 188575 | 25.215 ug/L | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 376329 | 26.221 ug/L | 98     |
| 21) 2-Butanone                 | 7.17 | 43  | 141914 | 45.273 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 207851 | 25.986 ug/L | 98     |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02528

Quant Time: Apr 12 02:09:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 12 01:59:20 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 91688    | 24.986 | ug/L  | 92       |
| 25) Chloroform                 | 7.67  | 83   | 391214   | 26.023 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 282608   | 24.855 | ug/L  | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 327660   | 27.065 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 317014   | 27.245 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.06  | 117  | 300040   | 25.720 | ug/L  | 98       |
| 34) Benzene                    | 8.32  | 78   | 817414   | 26.488 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 211078   | 26.136 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 354828   | 26.723 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 209391   | 26.506 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.64  | 83   | 283483   | 26.007 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 320448   | 26.184 | ug/L  | 96       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 302307   | 49.265 | ug/L  | 99       |
| 44) Toluene                    | 10.38 | 91   | 873523   | 26.720 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 271649   | 25.745 | ug/L  | 95       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 150868   | 25.443 | ug/L  | 95       |
| 47) Tetrachloroethene          | 10.86 | 164  | 164577   | 25.874 | ug/L  | 98       |
| 49) 2-Hexanone                 | 10.97 | 43   | 225594   | 49.374 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 181408   | 24.902 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 145065   | 24.409 | ug/L  | 100      |
| 52) Chlorobenzene              | 11.66 | 112  | 550173   | 26.145 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 1011817  | 27.170 | ug/L  | 100      |
| 54) m,p-Xylene                 | 11.84 | 106  | 371143   | 26.945 | ug/L  | 99       |
| 55) o-xylene                   | 12.16 | 106  | 353203   | 26.924 | ug/L  | 96       |
| 56) Styrene                    | 12.18 | 104  | 620454   | 27.259 | ug/L  | 99       |
| 57) Isopropylbenzene           | 12.46 | 105  | 997103   | 27.759 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 196463   | 24.640 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 145815   | 24.567 | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 103949   | 22.721 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 416299   | 25.863 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 438314   | 25.536 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 398139   | 25.855 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 33419    | 22.295 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 316778   | 26.524 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.14 | 180  | 255901   | 26.681 | ug/L  | 99       |
| 69) Naphthalene                | 15.37 | 128  | 492913   | 25.570 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 239401   | 26.682 | ug/L  | 98       |

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

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Misc : 5.00G/10ML/MSVOA\_W/SOIL

```
ALS Vial      : 2      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_W  
**ClientSampleId :**  
VSTD02528

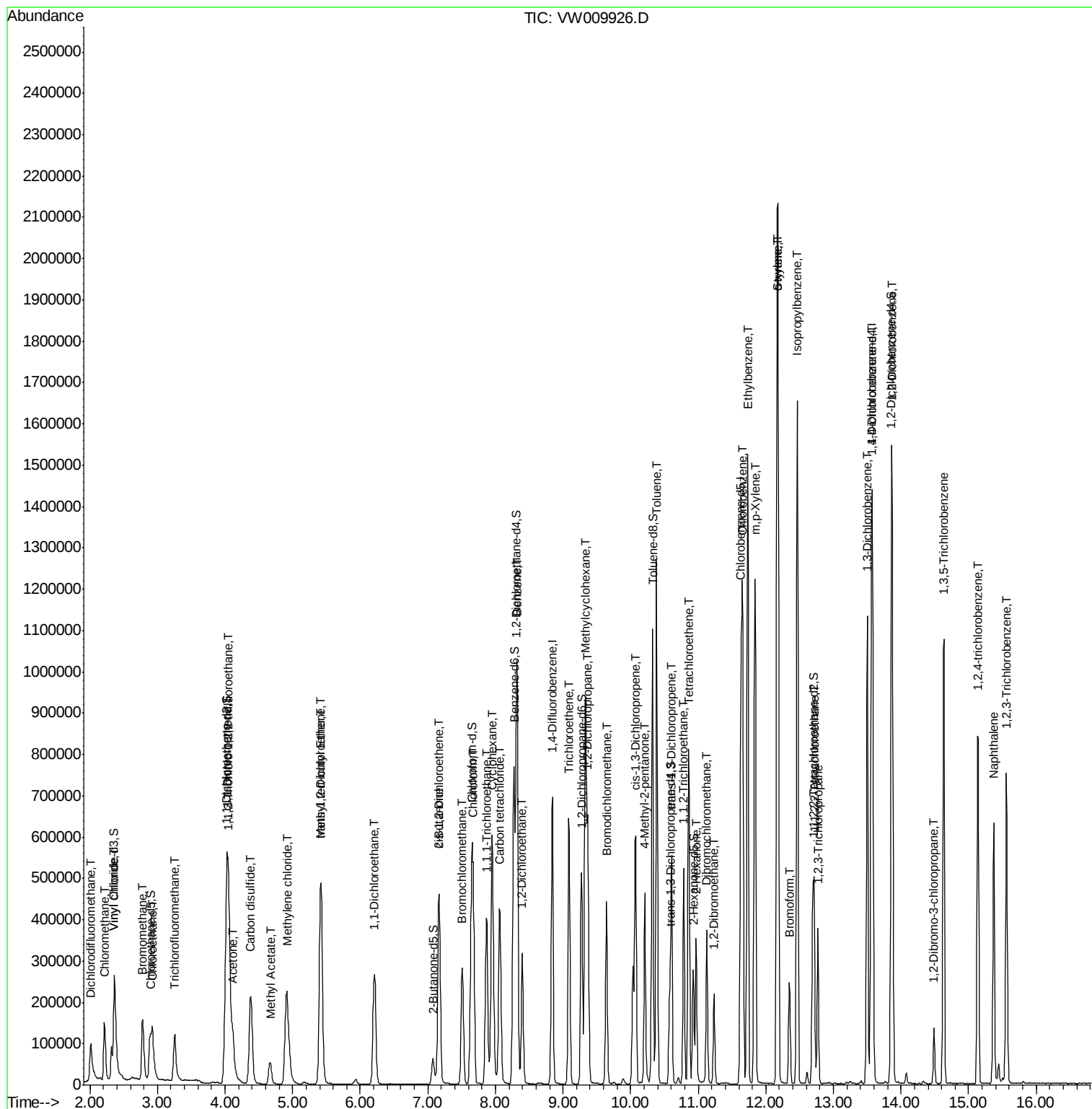
Quant Time: Apr 12 02:09:09 2019

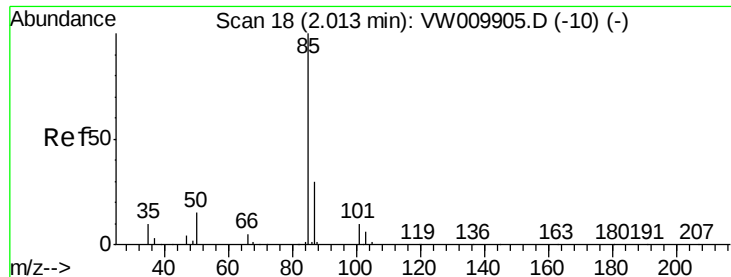
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M

Quant Title : VOC Analysis

QLast Update : Fri Apr 12 01:59:20 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 22.523 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

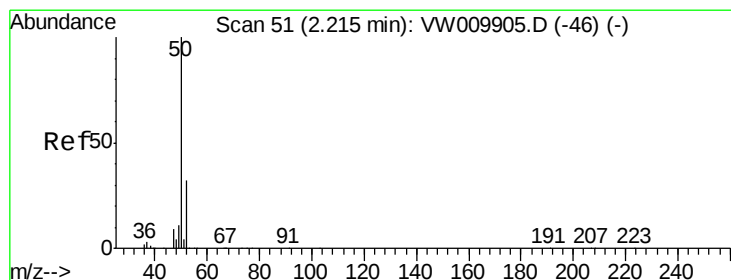
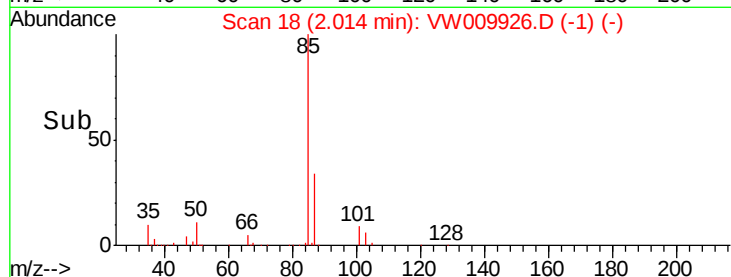
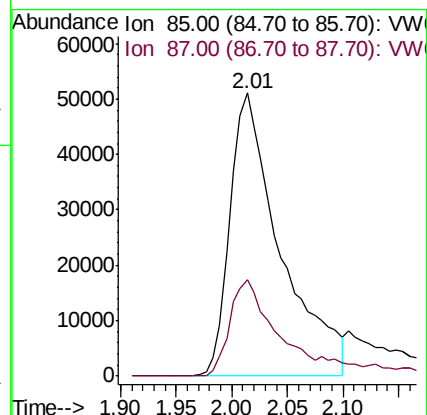
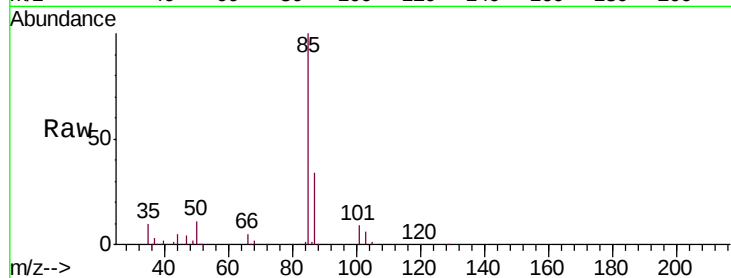
VSTD02528

Tgt Ion: 85 Resp: 160630

Ion Ratio Lower Upper

85 100

87 30.3 18.1 33.5



#3

Chloromethane

Concen: 21.361 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW009926.D

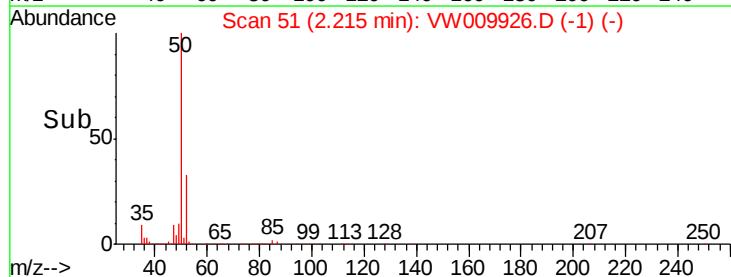
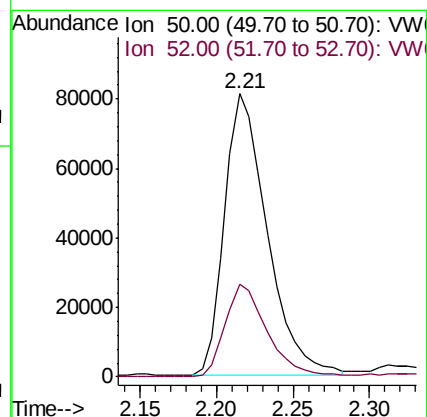
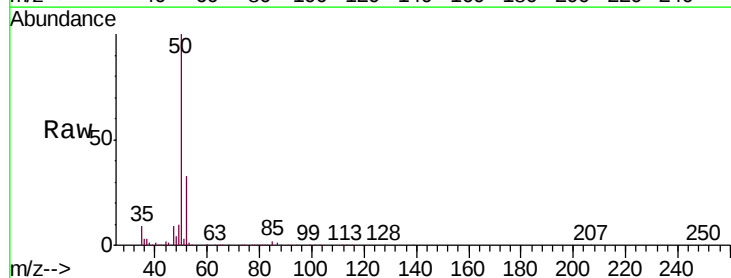
Acq: 11 Apr 2019 21:23

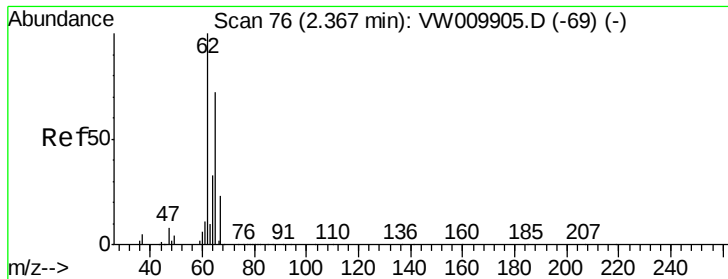
Tgt Ion: 50 Resp: 157436

Ion Ratio Lower Upper

50 100

52 32.5 22.3 41.3





#5

Vinyl chloride

Concen: 21.243 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

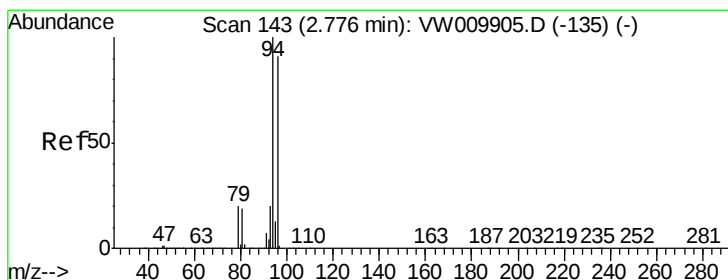
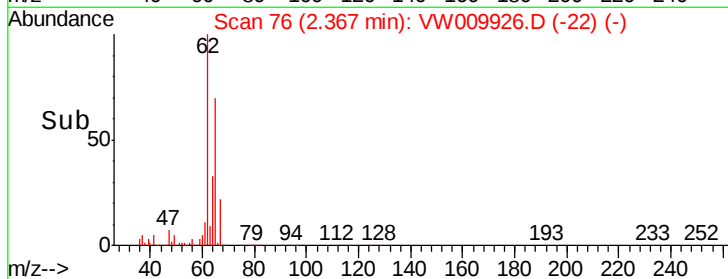
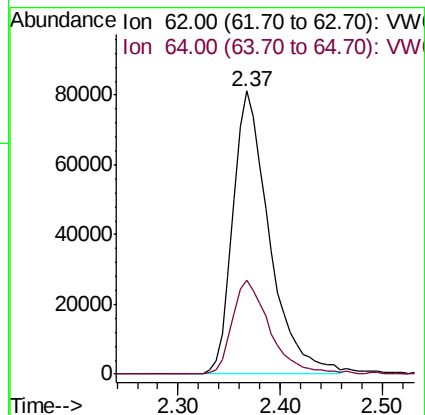
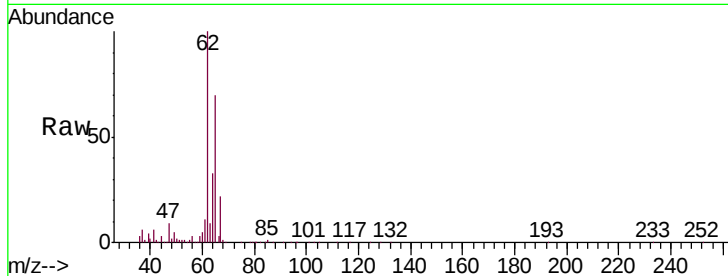
VSTD02528

Tgt Ion: 62 Resp: 200828

Ion Ratio Lower Upper

62 100

64 33.2 21.8 40.6



#6

Bromomethane

Concen: 18.678 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW009926.D

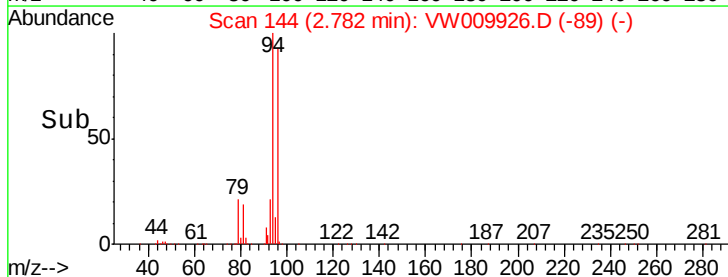
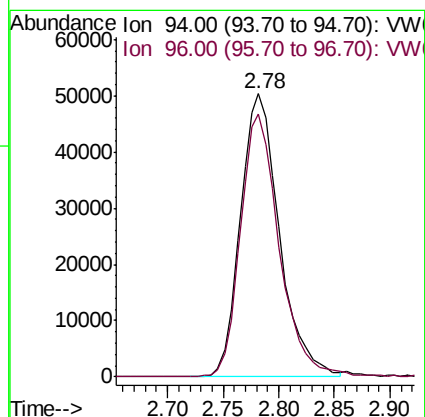
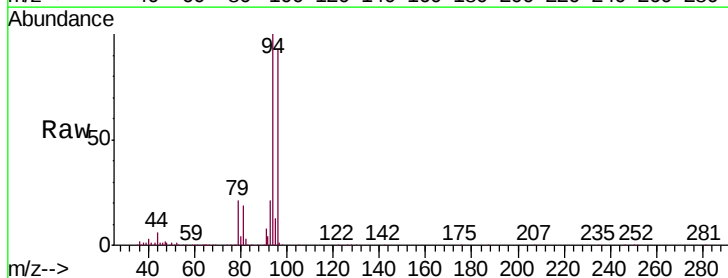
Acq: 11 Apr 2019 21:23

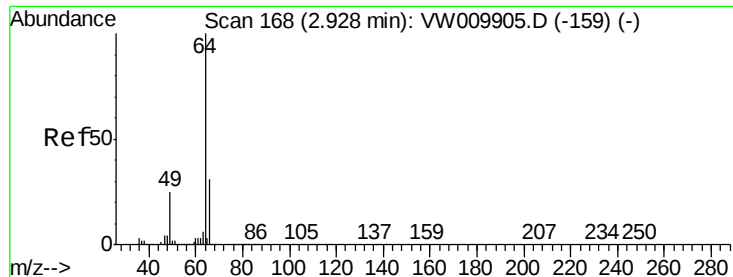
Tgt Ion: 94 Resp: 122185

Ion Ratio Lower Upper

94 100

96 92.5 9.3 177.3





#8

Chloroethane

Concen: 20.883 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

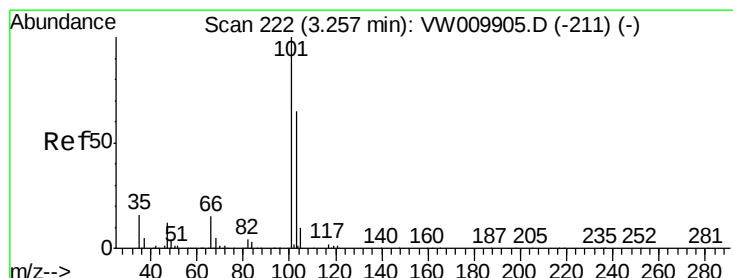
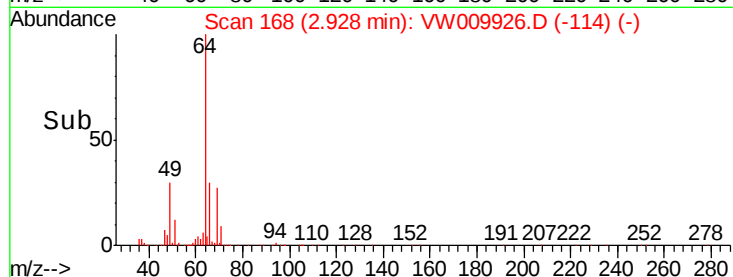
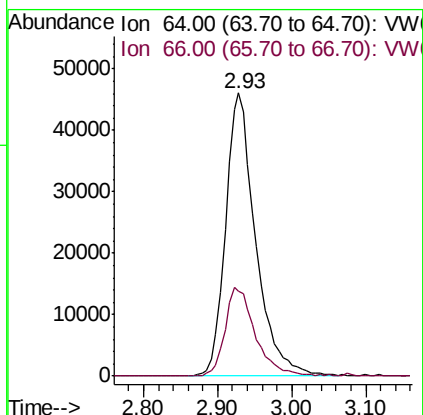
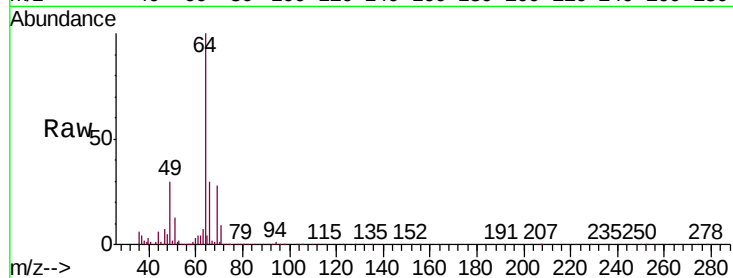
VSTD02528

Tgt Ion: 64 Resp: 129580

Ion Ratio Lower Upper

64 100

66 29.9 21.6 40.2



#9

Trichlorofluoromethane

Concen: 20.554 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW009926.D

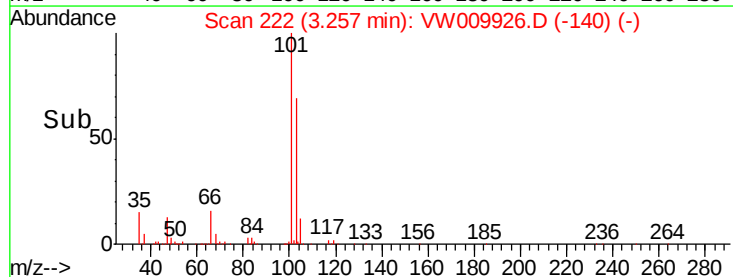
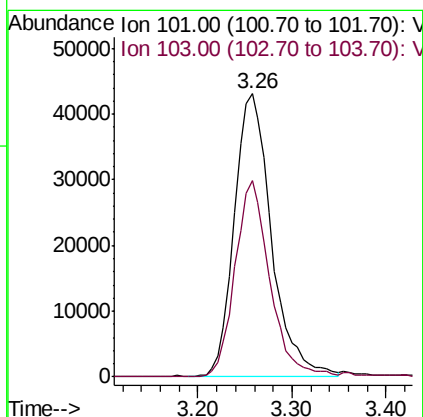
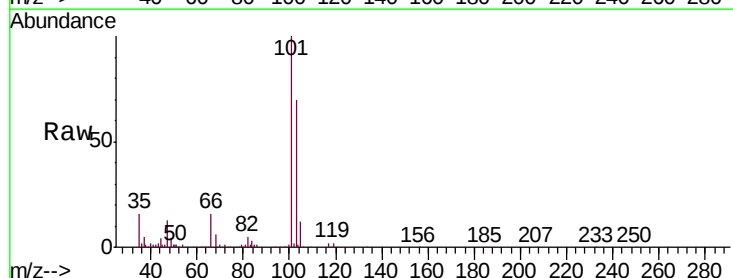
Acq: 11 Apr 2019 21:23

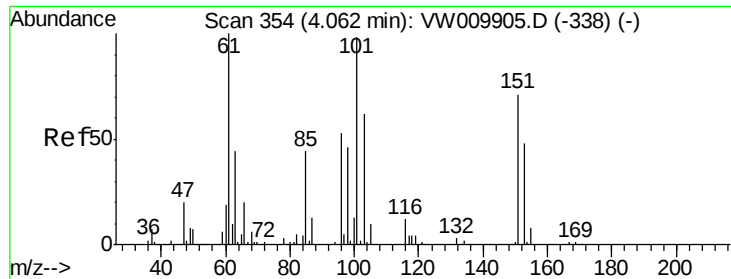
Tgt Ion: 101 Resp: 119202

Ion Ratio Lower Upper

101 100

103 64.3 45.1 83.7





#11

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

Concen: 24.613 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

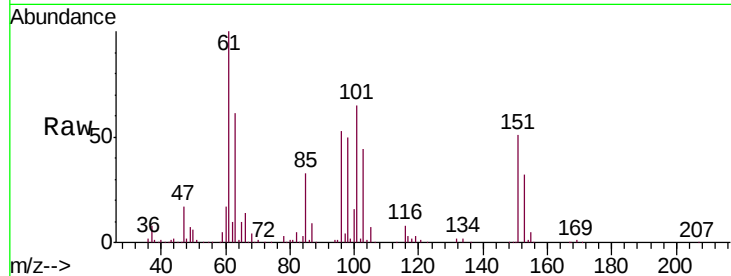
Tgt Ion: 101 Resp: 185673

Ion Ratio Lower Upper

101 100

85 44.0 37.8 56.6

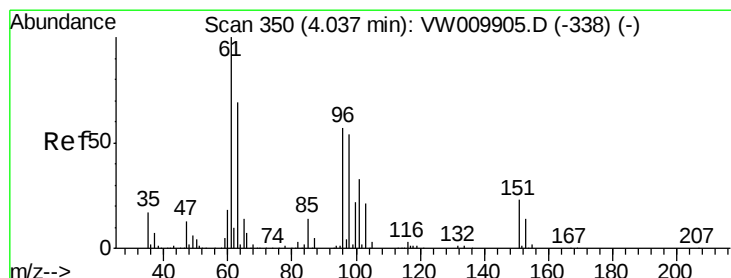
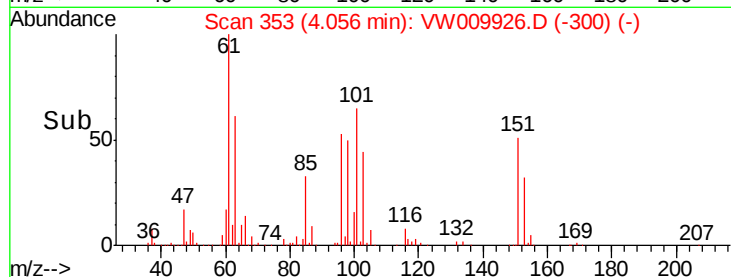
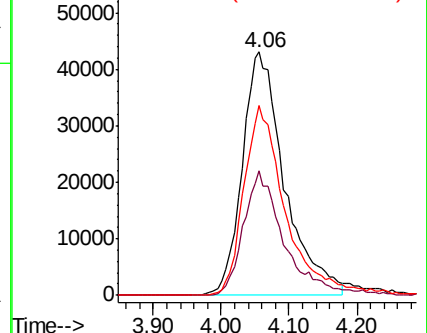
151 75.0 60.6 91.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 24.893 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

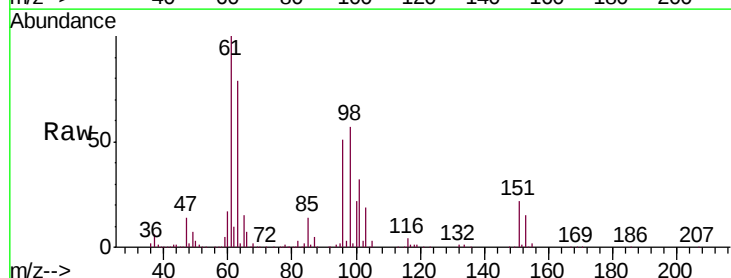
Tgt Ion: 96 Resp: 179009

Ion Ratio Lower Upper

96 100

61 195.4 138.8 257.8

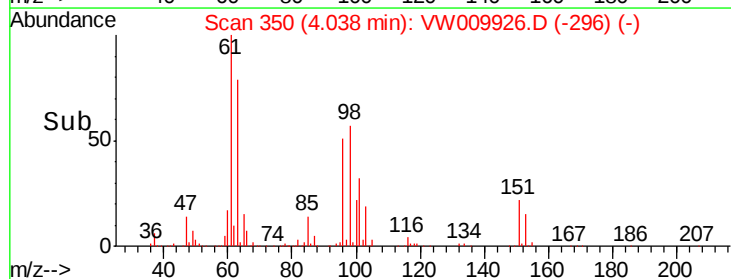
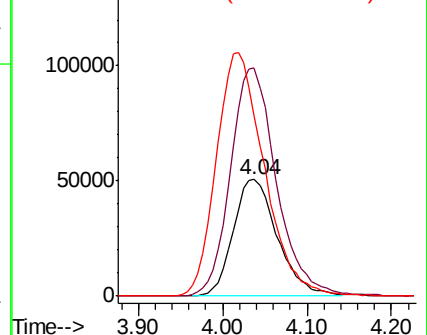
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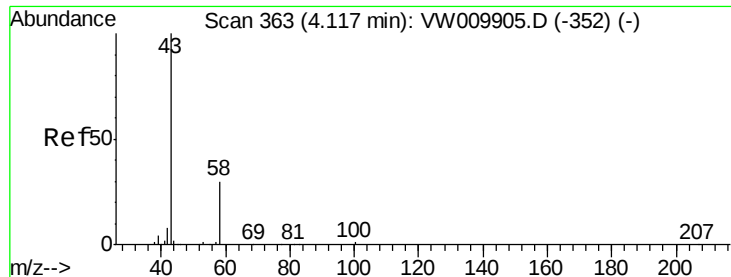


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 43.639 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

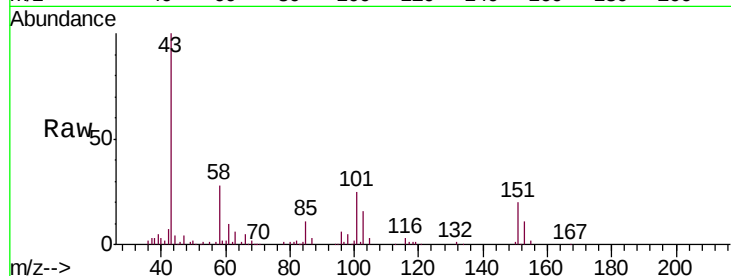
VSTD02528

Tgt Ion: 43 Resp: 107555

Ion Ratio Lower Upper

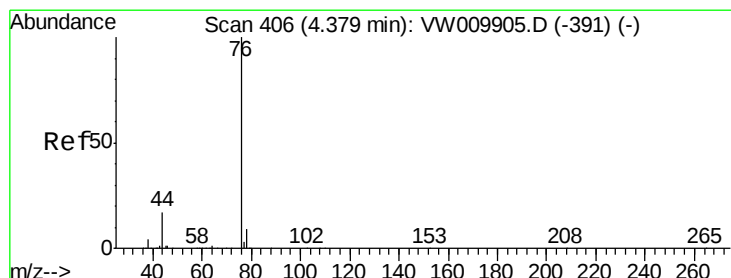
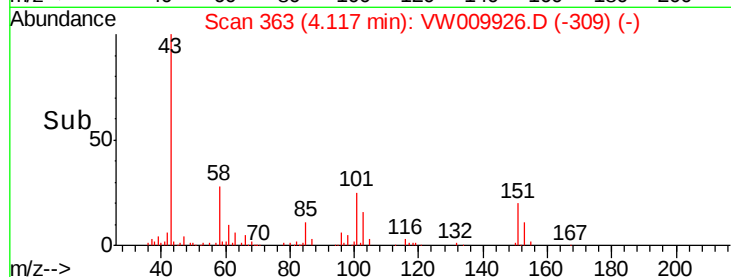
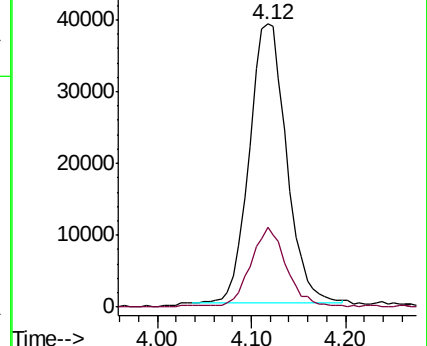
43 100

58 27.3 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 22.717 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009926.D

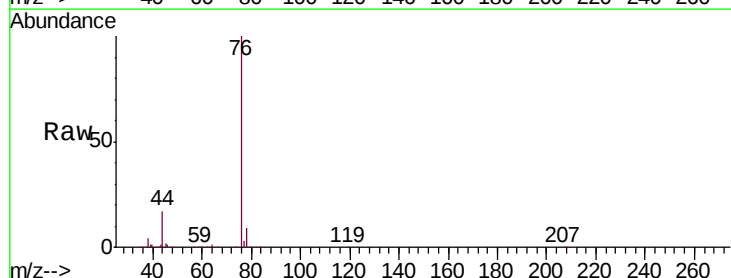
Acq: 11 Apr 2019 21:23

Tgt Ion: 76 Resp: 507770

Ion Ratio Lower Upper

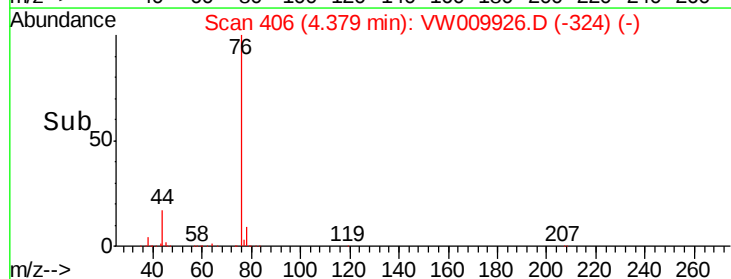
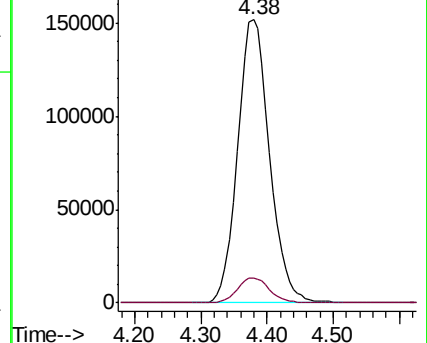
76 100

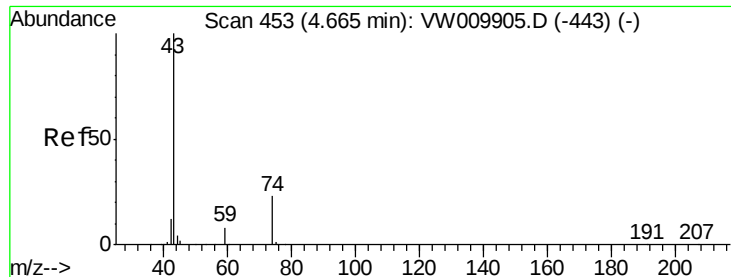
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

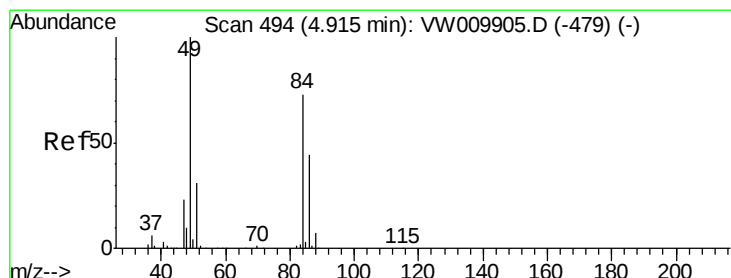
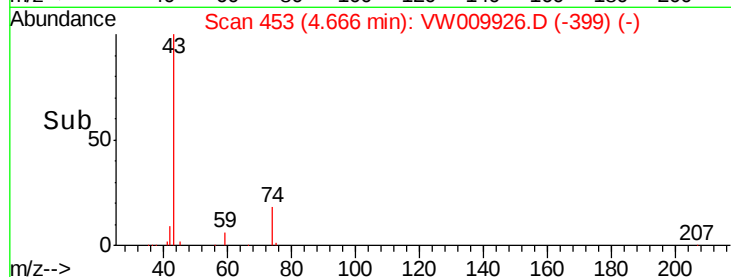
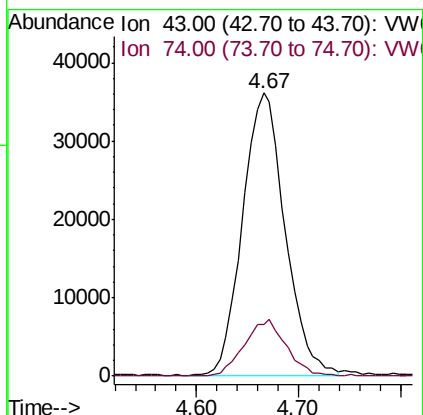
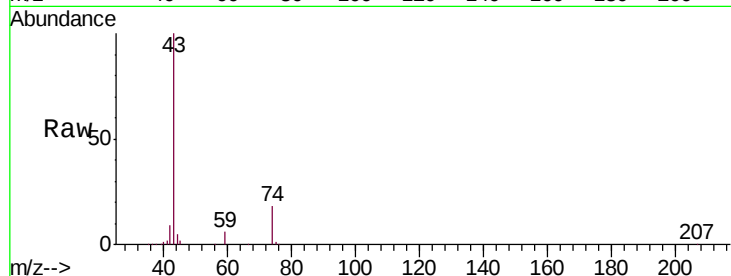




#15  
Methyl Acetate  
Concen: 23.383 ug/L  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

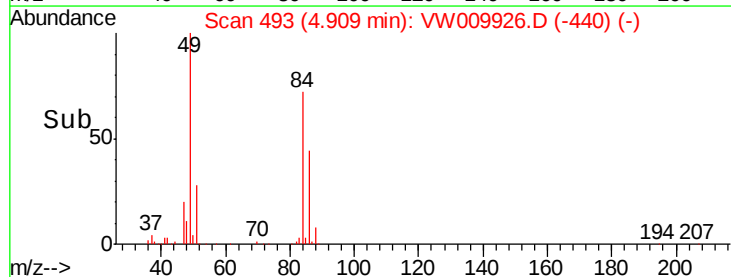
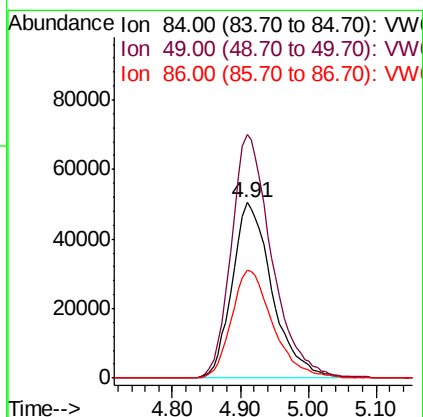
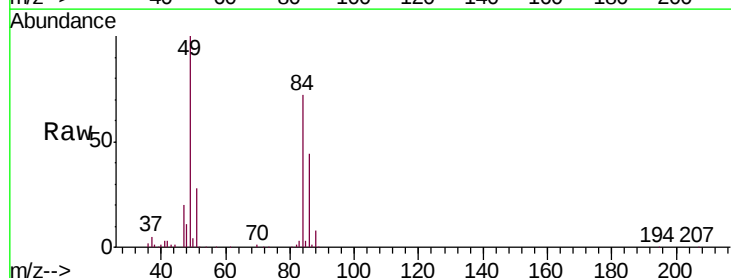
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02528

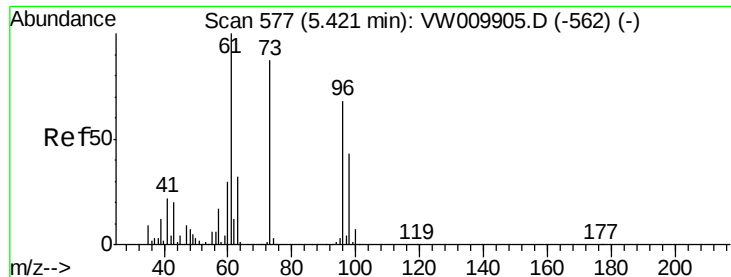
Tgt Ion: 43 Resp: 105082  
Ion Ratio Lower Upper  
43 100  
74 19.6 17.2 25.8



#16  
Methylene chloride  
Concen: 21.627 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

Tgt Ion: 84 Resp: 206502  
Ion Ratio Lower Upper  
84 100  
49 138.7 98.3 182.5  
86 61.5 46.4 86.2

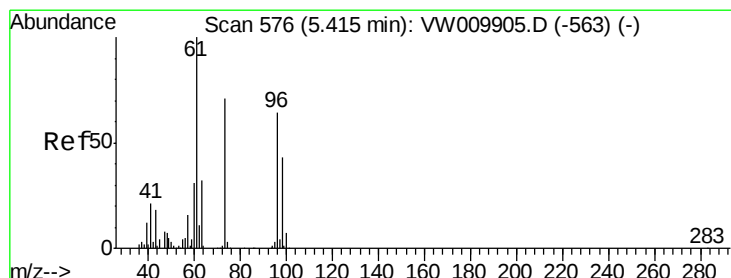
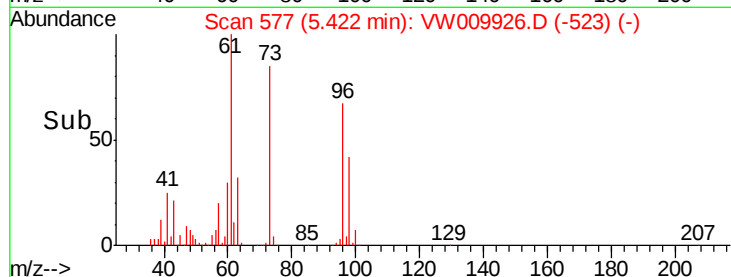
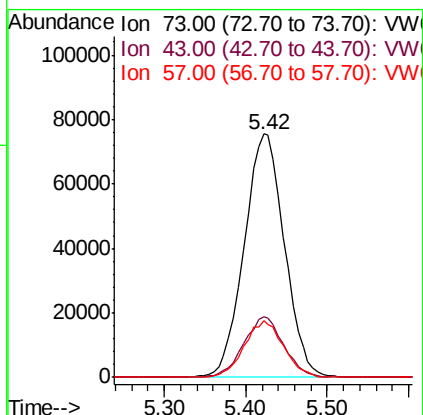
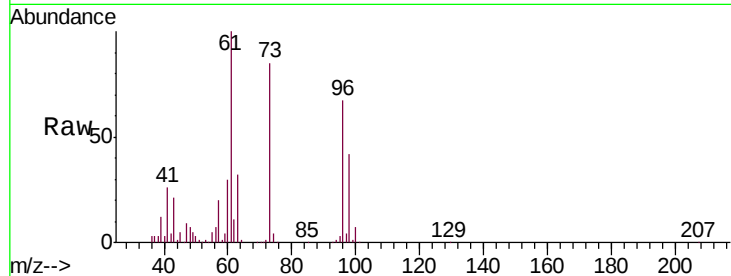




#17  
Methyl tert-butyl Ether  
Concen: 26.169 ug/L  
RT: 5.42 min Scan# 577  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

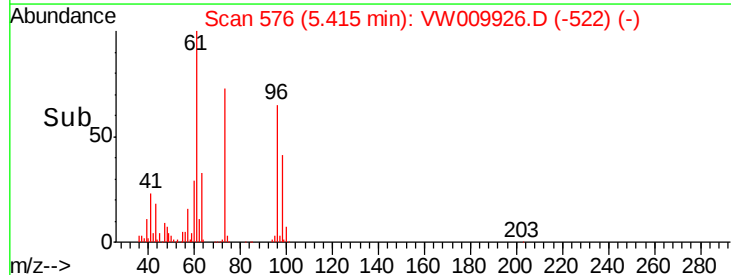
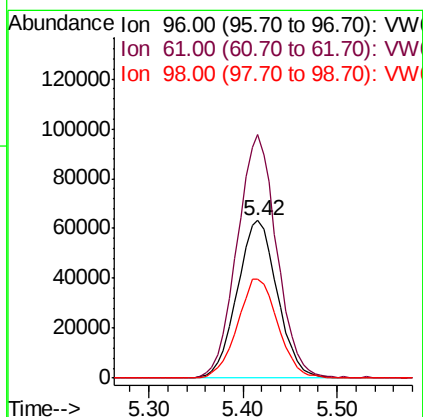
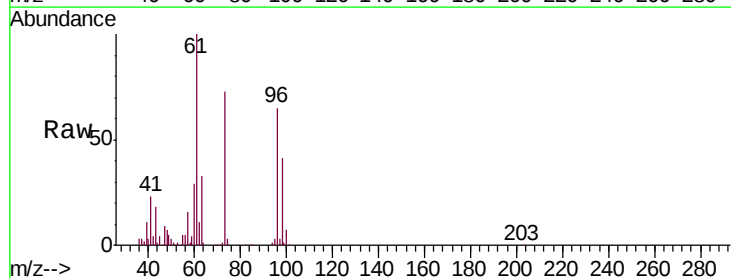
Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD02528

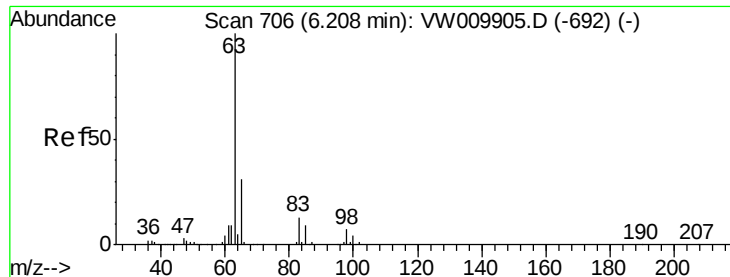
Tgt Ion: 73 Resp: 259232  
Ion Ratio Lower Upper  
73 100  
43 24.6 20.2 30.2  
57 22.9 17.8 26.8



#18  
trans-1,2-Dichloroethene  
Concen: 25.215 ug/L  
RT: 5.42 min Scan# 576  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

Tgt Ion: 96 Resp: 188575  
Ion Ratio Lower Upper  
96 100  
61 154.7 103.7 192.5  
98 63.1 43.7 81.1





#19

1,1-Dichloroethane

Concen: 26.221 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

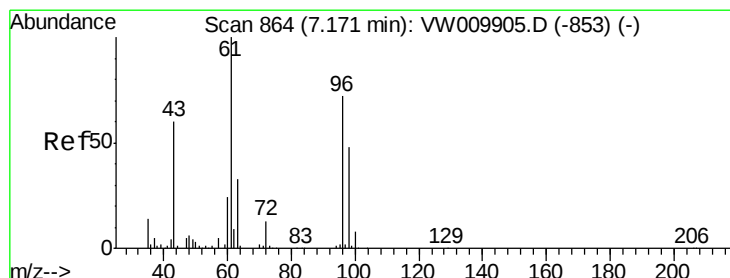
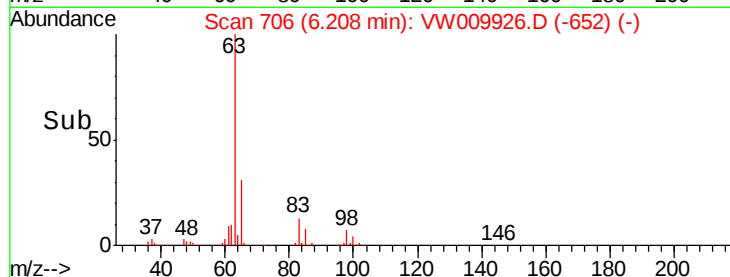
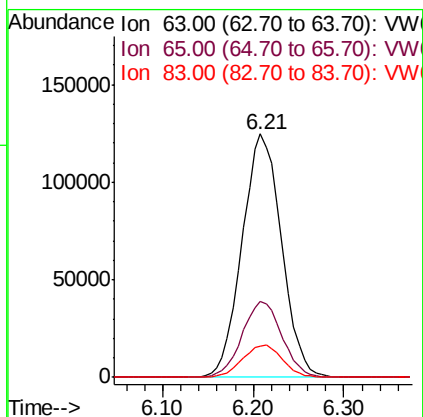
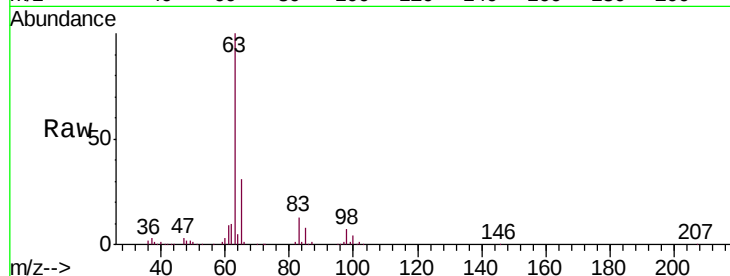
Tgt Ion: 63 Resp: 376329

Ion Ratio Lower Upper

63 100

65 31.0 22.6 42.0

83 13.0 9.8 18.2



#21

2-Butanone

Concen: 45.273 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW009926.D

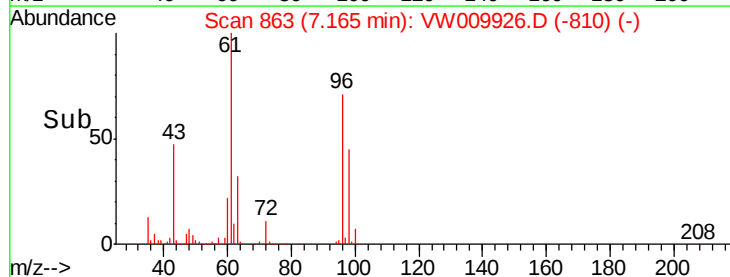
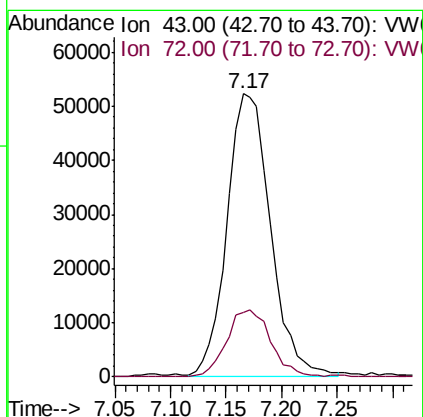
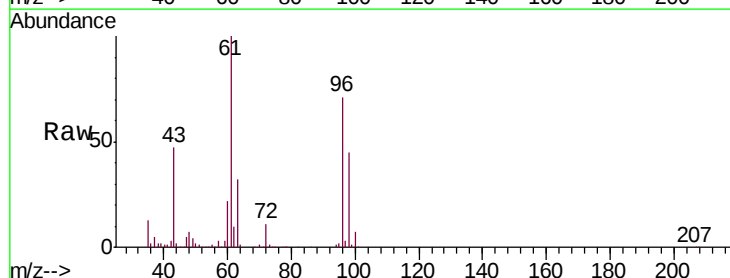
Acq: 11 Apr 2019 21:23

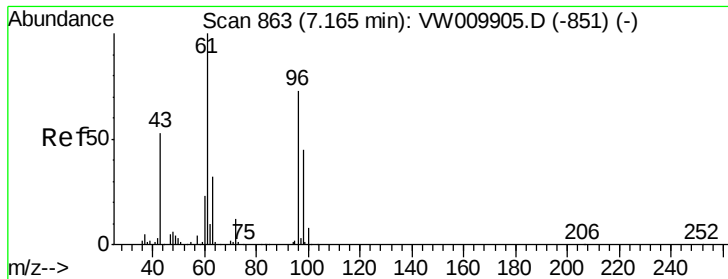
Tgt Ion: 43 Resp: 141914

Ion Ratio Lower Upper

43 100

72 24.1 12.0 36.1



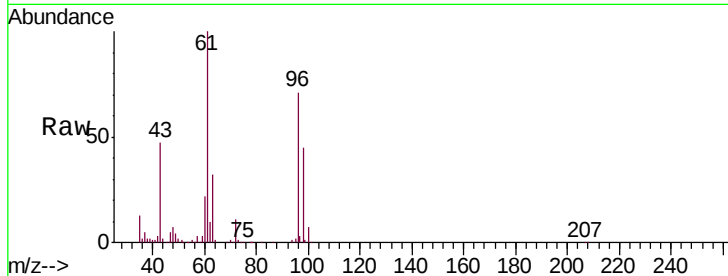


#22

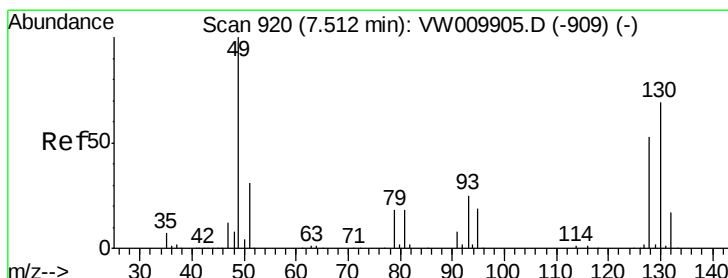
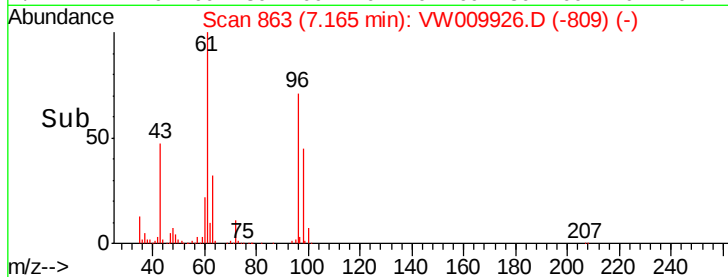
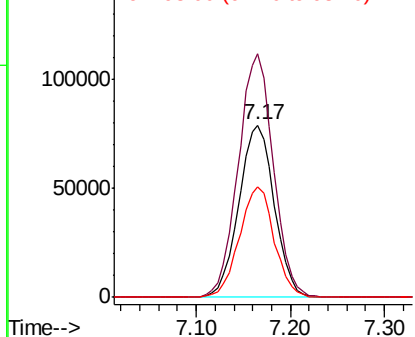
cis-1,2-Dichloroethene  
Concen: 25.986 ug/L  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

Instrument :  
MSVOA\_W  
ClientSampled :  
VSTD02528

Tgt Ion: 96 Resp: 207851  
Ion Ratio Lower Upper  
96 100  
61 141.3 96.8 179.8  
98 63.9 43.5 80.9



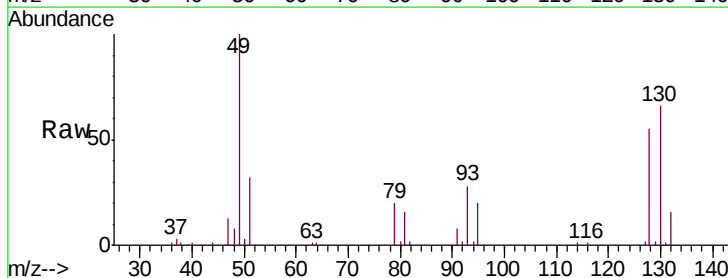
Abundance Ion 96.00 (95.70 to 96.70): VW  
Ion 61.00 (60.70 to 61.70): VW  
Ion 98.00 (97.70 to 98.70): VW



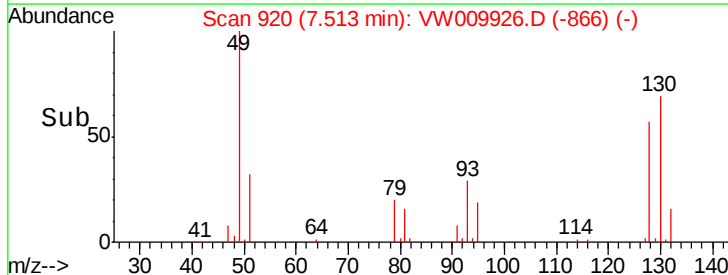
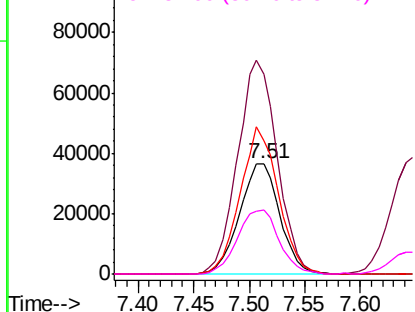
#23

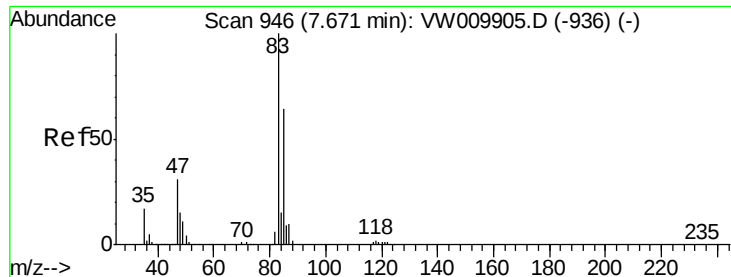
Bromochloromethane  
Concen: 24.986 ug/L  
RT: 7.51 min Scan# 920  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

Tgt Ion: 128 Resp: 91688  
Ion Ratio Lower Upper  
128 100  
49 181.5 132.6 246.2  
130 120.5 95.5 177.4  
51 58.0 48.6 73.0



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





#25

Chloroform

Concen: 26.023 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

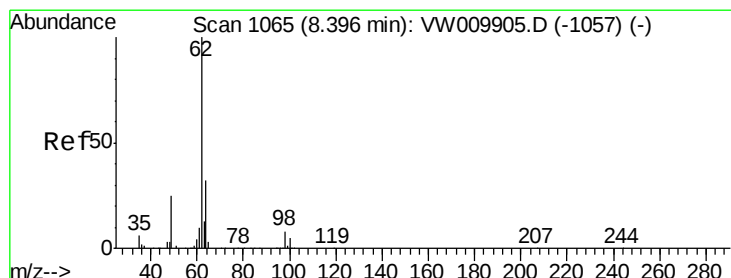
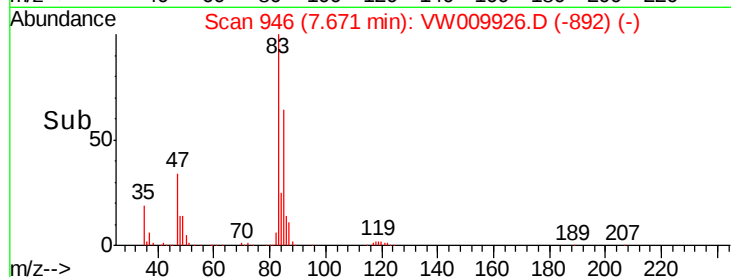
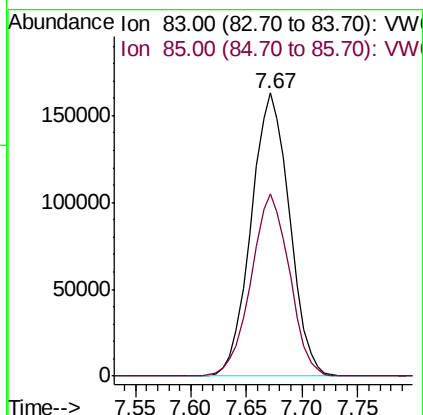
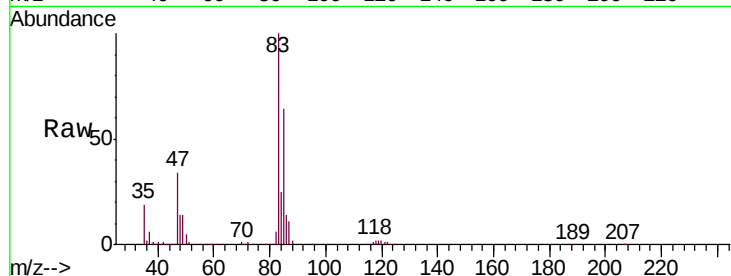
VSTD02528

Tgt Ion: 83 Resp: 391214

Ion Ratio Lower Upper

83 100

85 64.6 45.6 84.8



#27

1,2-Dichloroethane

Concen: 24.855 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009926.D

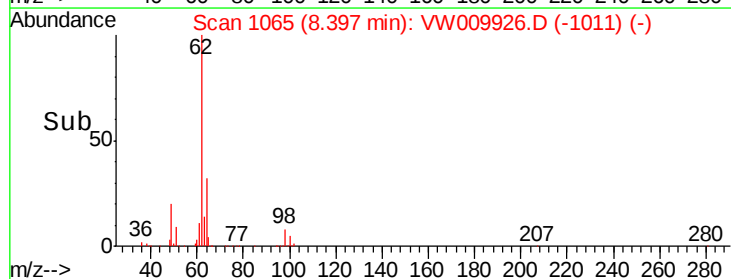
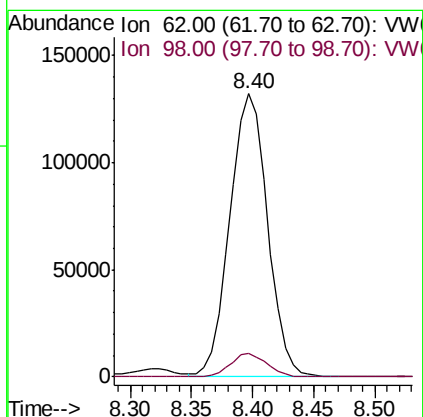
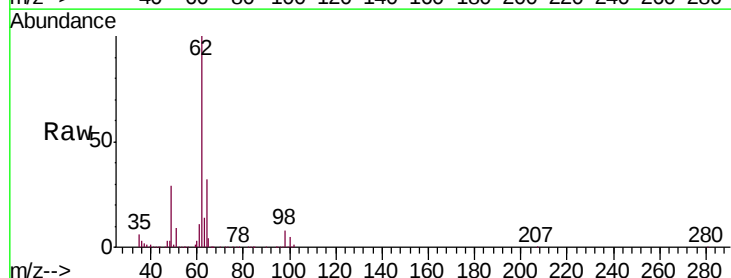
Acq: 11 Apr 2019 21:23

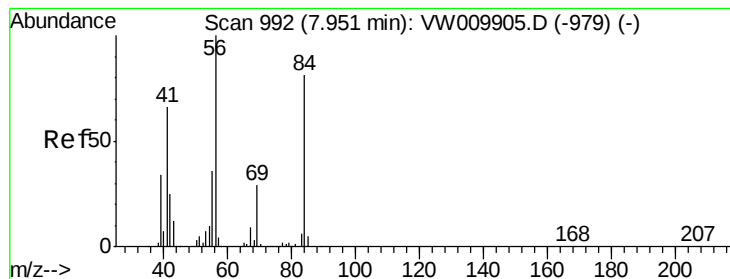
Tgt Ion: 62 Resp: 282608

Ion Ratio Lower Upper

62 100

98 8.2 7.0 10.4





#30

Cyclohexane

Concen: 27.065 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

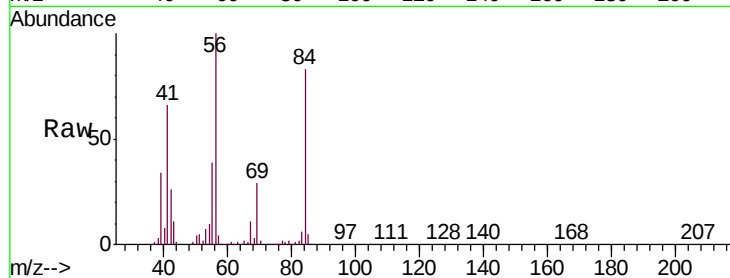
Tgt Ion: 56 Resp: 327660

Ion Ratio Lower Upper

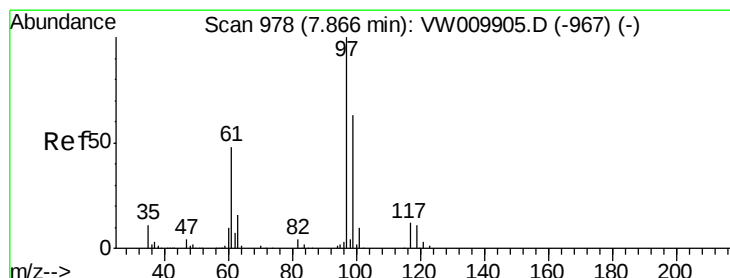
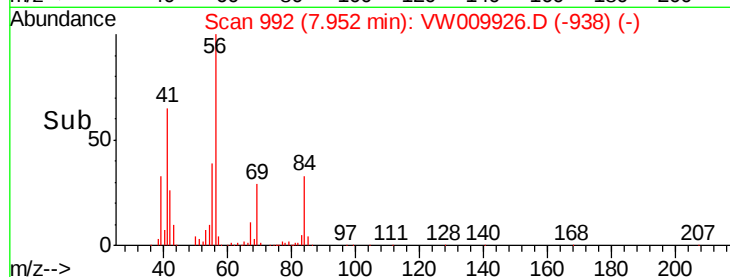
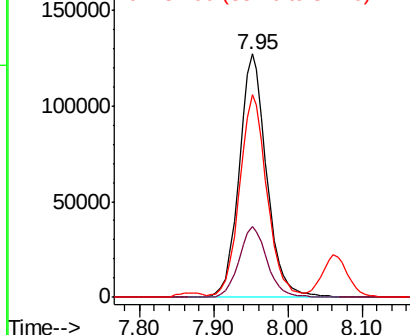
56 100

69 29.5 23.4 35.2

84 83.4 67.7 101.5



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



#31

1,1,1-Trichloroethane

Concen: 27.245 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

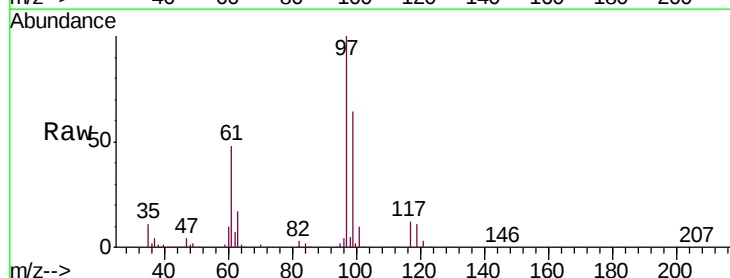
Tgt Ion: 97 Resp: 317014

Ion Ratio Lower Upper

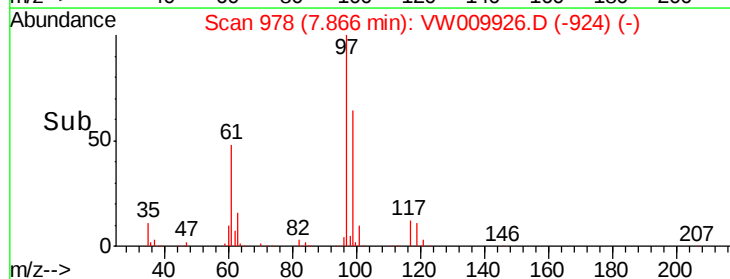
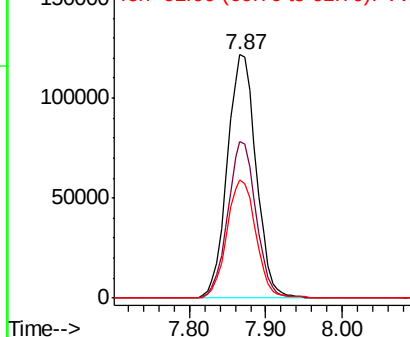
97 100

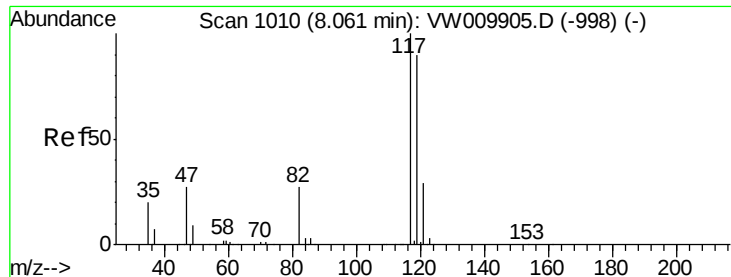
99 63.2 50.8 76.2

61 49.0 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VW  
Ion 99.00 (98.70 to 99.70): VW  
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 25.720 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

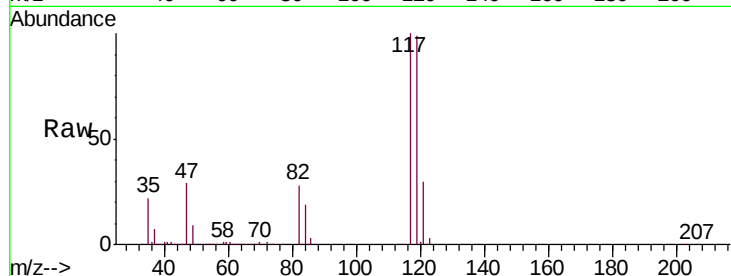
VSTD02528

Tgt Ion:117 Resp: 300040

Ion Ratio Lower Upper

117 100

119 96.4 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

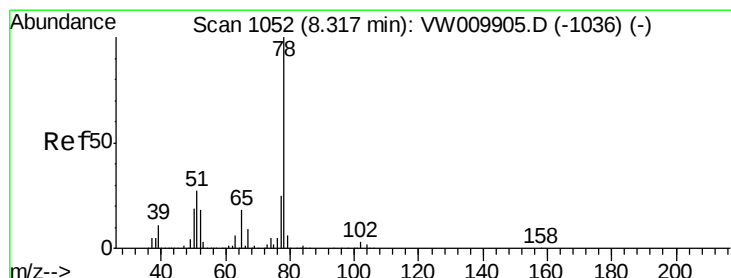
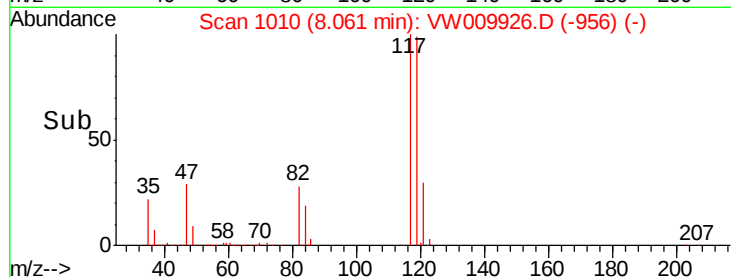
100000

50000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 26.488 ug/L

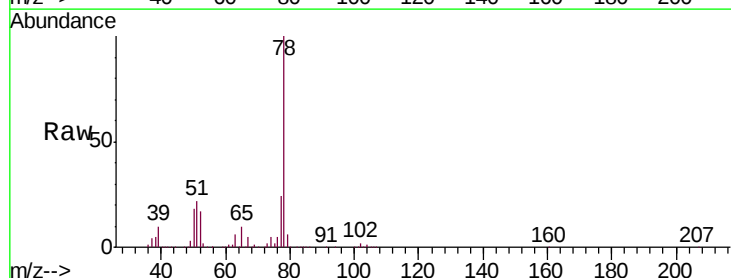
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Tgt Ion: 78 Resp: 817414



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

400000

300000

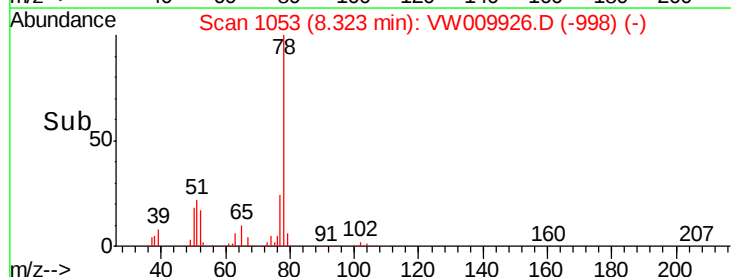
200000

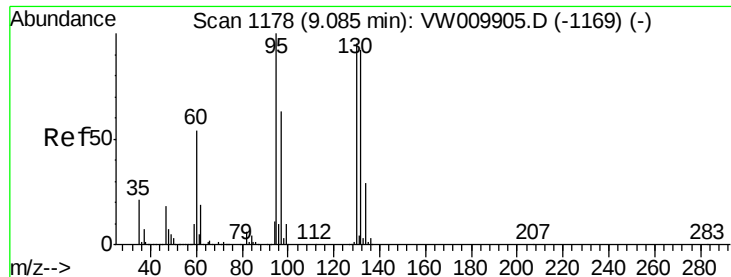
100000

0

8.20 8.30 8.40

Time-->

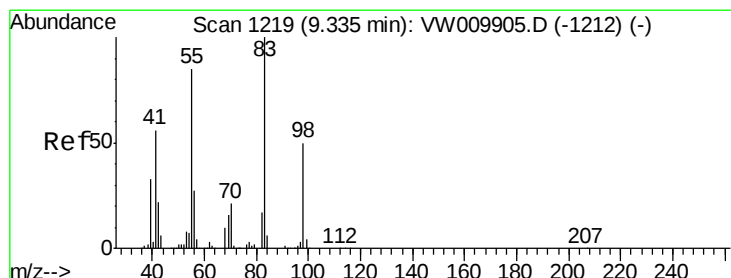
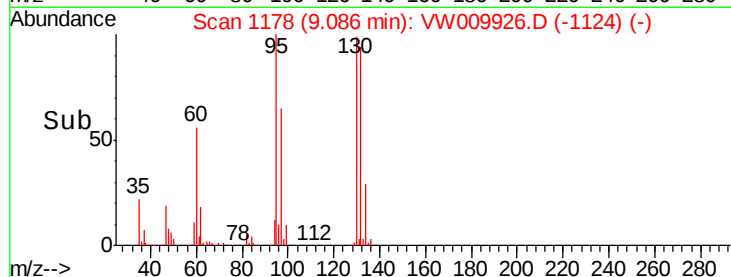
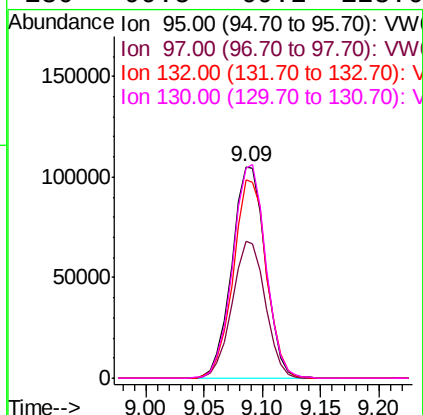
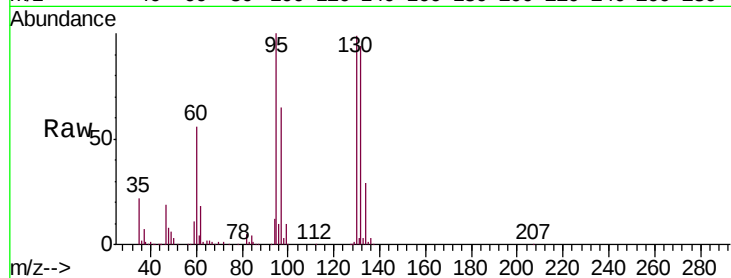




#35  
 Trichloroethene  
 Concen: 26.136 ug/L  
 RT: 9.09 min Scan# 1178  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

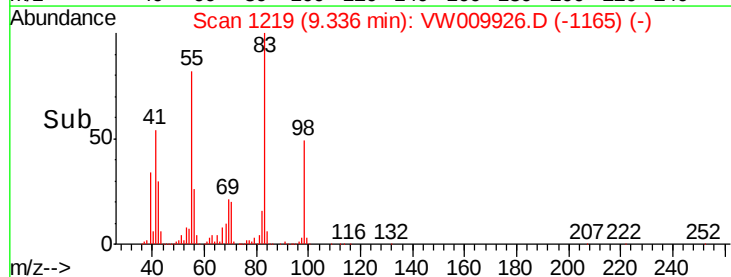
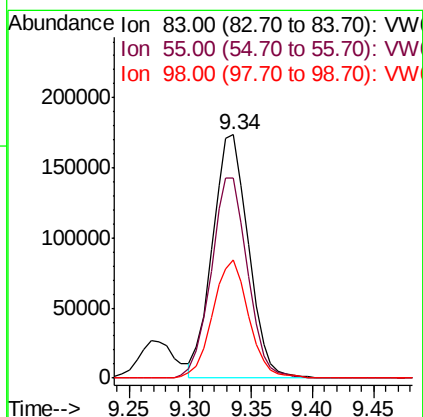
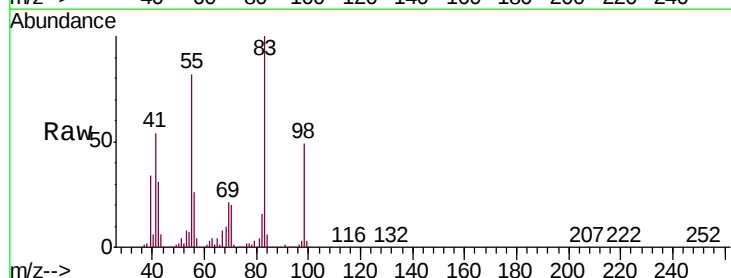
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02528

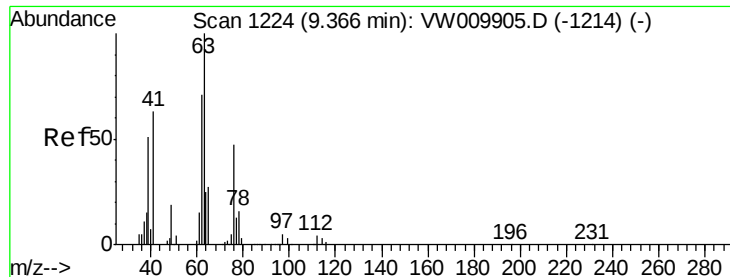
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 211078 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.0  | 44.9  | 83.5   |
| 132      | 93.0  | 67.1  | 124.7  |
| 130      | 99.5  | 69.2  | 128.6  |



#36  
 Methylcyclohexane  
 Concen: 26.723 ug/L  
 RT: 9.34 min Scan# 1219  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 354828 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 83.4  | 66.3  | 99.5   |
| 98       | 48.8  | 39.4  | 59.0   |





#40

1,2-Dichloropropane

Concen: 26.506 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

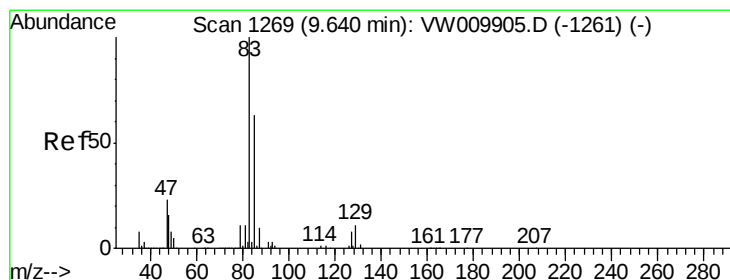
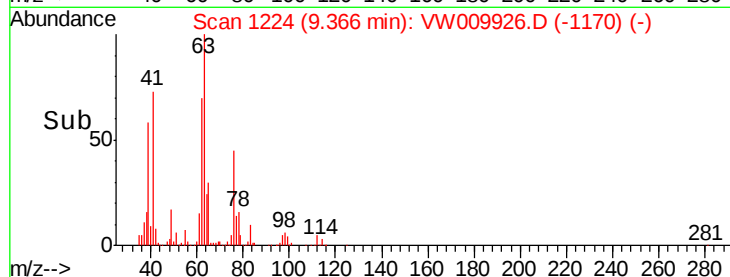
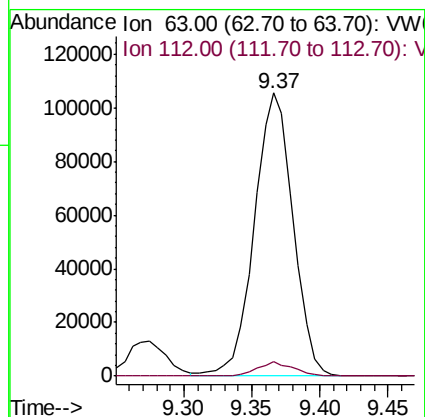
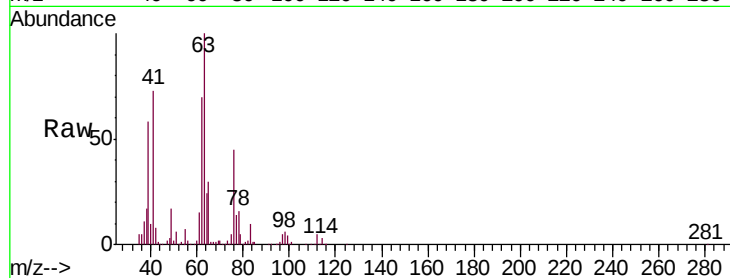
VSTD02528

Tgt Ion: 63 Resp: 209391

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8



#41

Bromodichloromethane

Concen: 26.007 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

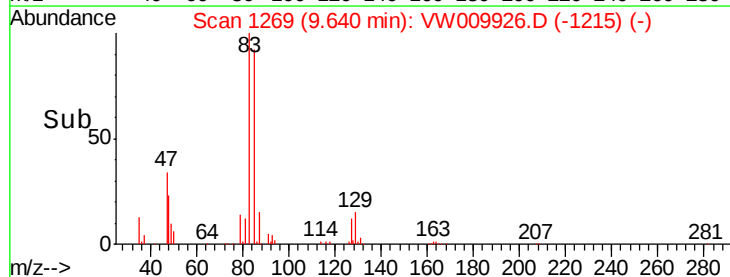
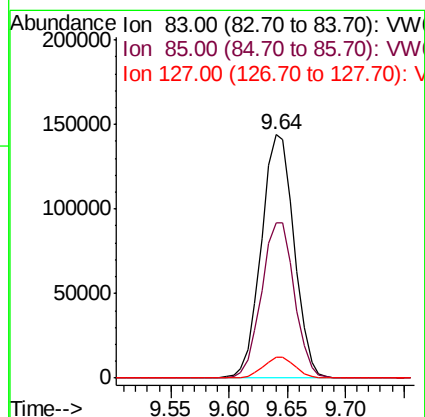
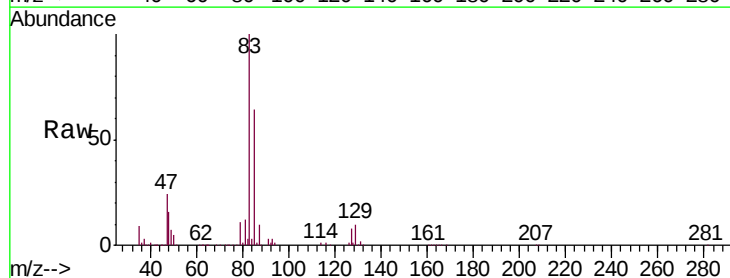
Tgt Ion: 83 Resp: 283483

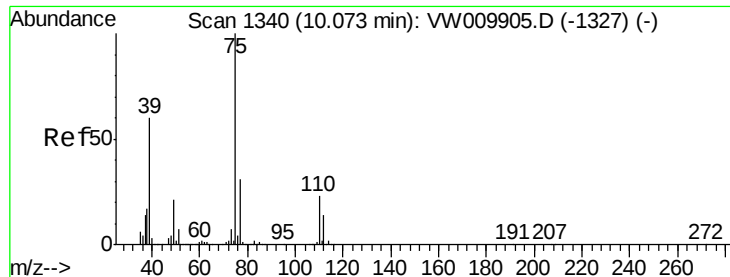
Ion Ratio Lower Upper

83 100

85 63.6 45.0 83.6

127 8.4 6.7 10.1





#42

cis-1,3-Dichloropropene

Concen: 26.184 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

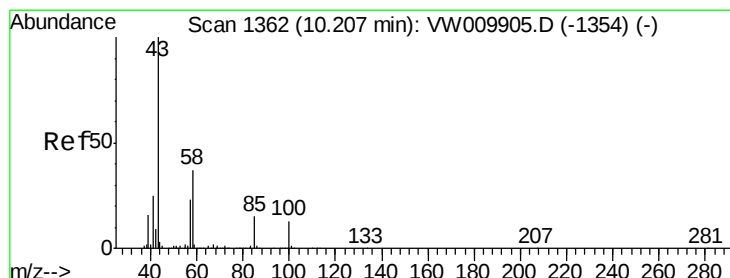
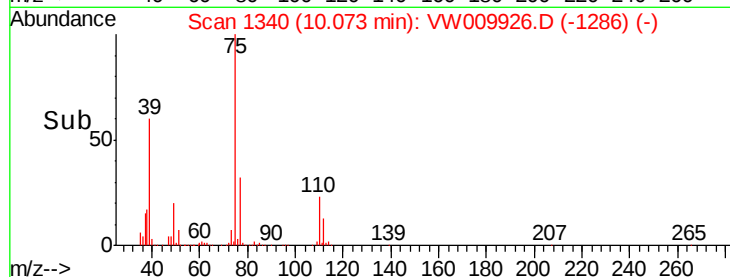
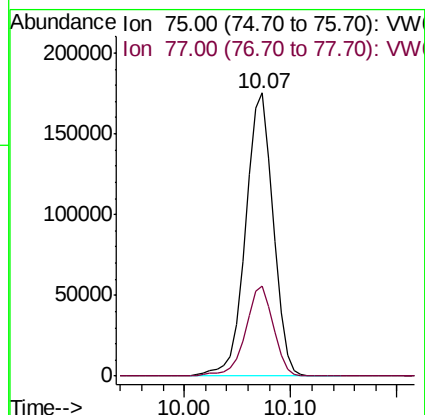
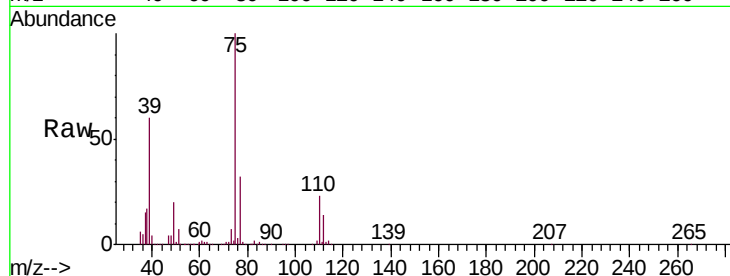
VSTD02528

Tgt Ion: 75 Resp: 320448

Ion Ratio Lower Upper

75 100

77 31.9 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 49.265 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

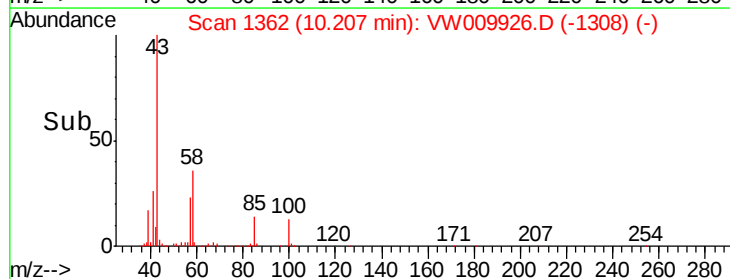
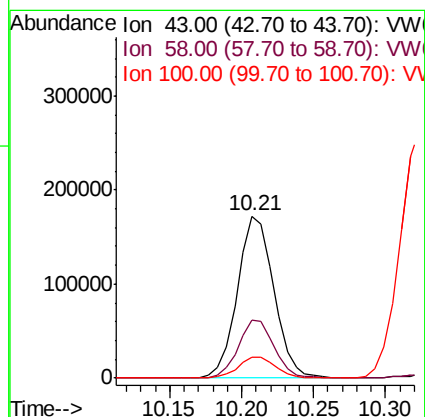
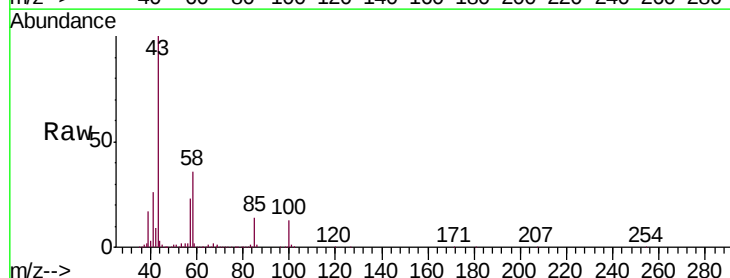
Tgt Ion: 43 Resp: 302307

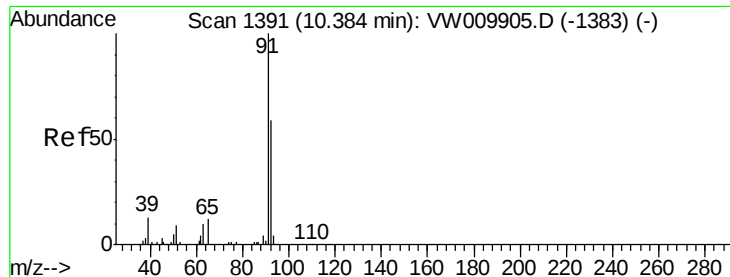
Ion Ratio Lower Upper

43 100

58 35.6 28.2 42.4

100 13.3 10.9 16.3





#44

Toluene

Concen: 26.720 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

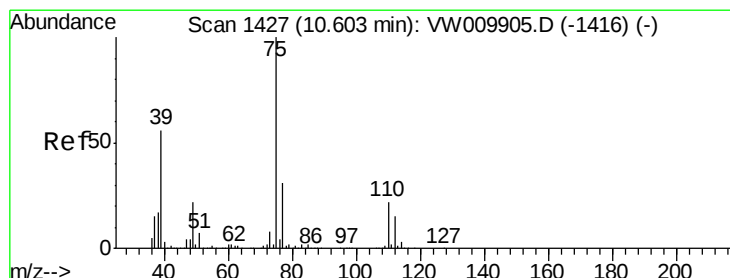
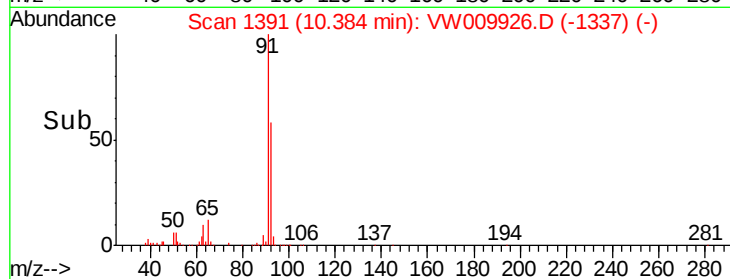
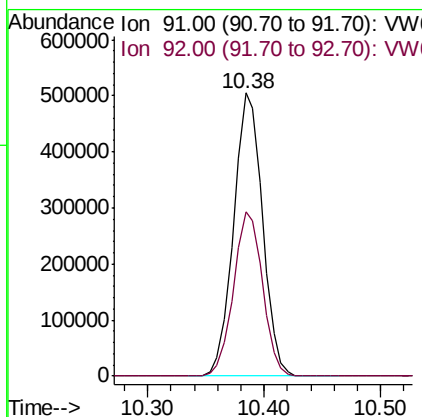
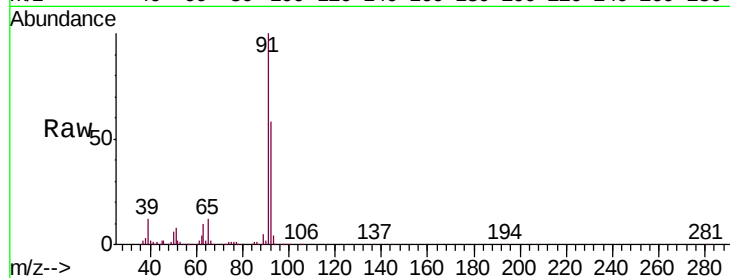
VSTD02528

Tgt Ion: 91 Resp: 873523

Ion Ratio Lower Upper

91 100

92 58.3 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 25.745 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009926.D

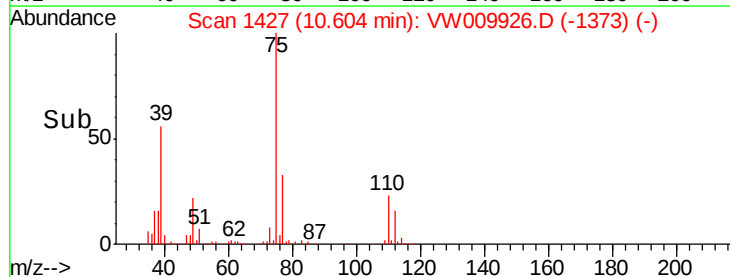
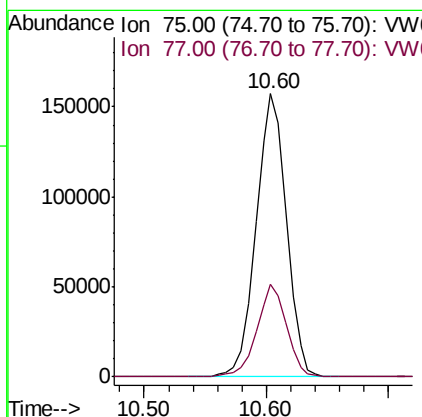
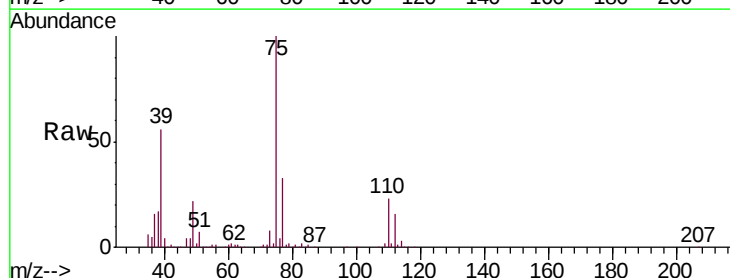
Acq: 11 Apr 2019 21:23

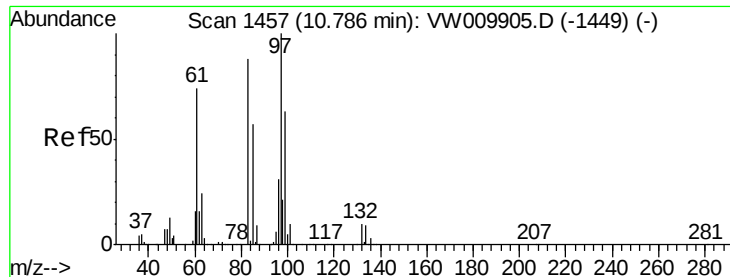
Tgt Ion: 75 Resp: 271649

Ion Ratio Lower Upper

75 100

77 32.8 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 25.443 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

Tgt Ion: 97 Resp: 150868

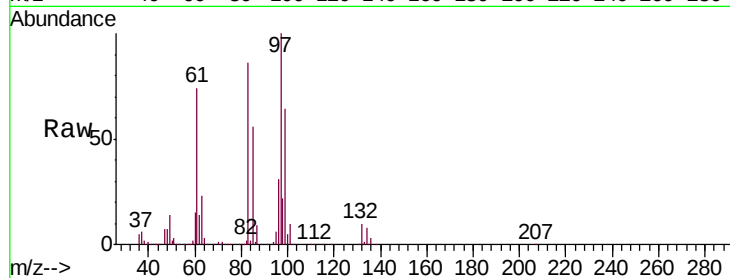
Ion Ratio Lower Upper

97 100

83 86.5 57.3 106.3

85 56.4 38.1 70.7

99 64.2 40.9 75.9

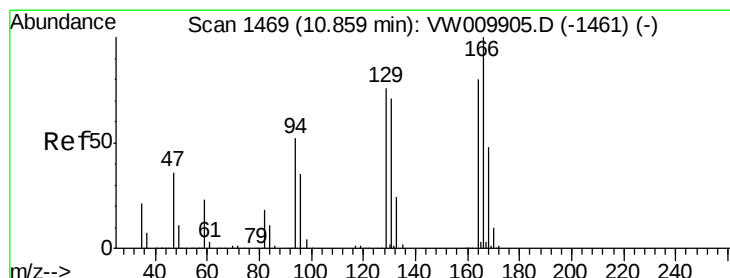
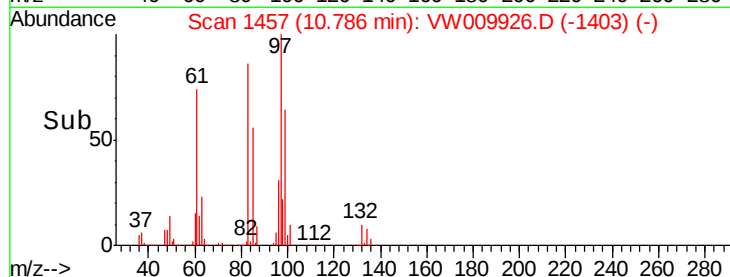
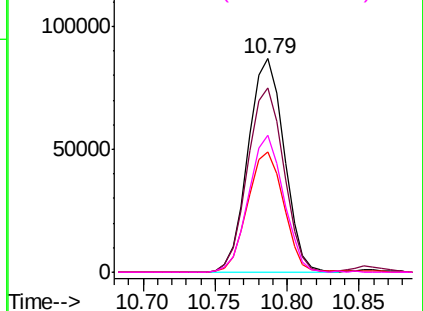


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.874 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Tgt Ion: 164 Resp: 164577

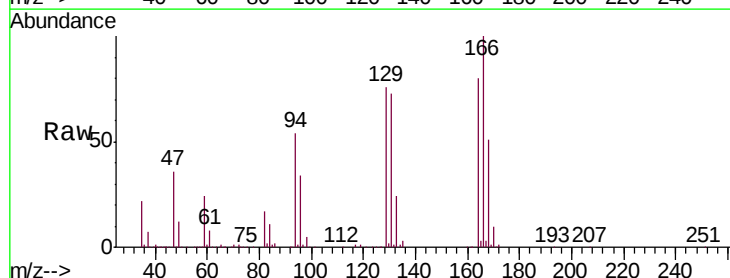
Ion Ratio Lower Upper

164 100

129 95.5 68.9 127.9

131 91.7 63.1 117.1

166 124.9 88.5 164.4

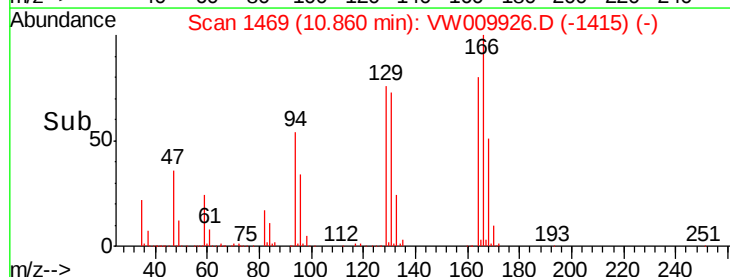
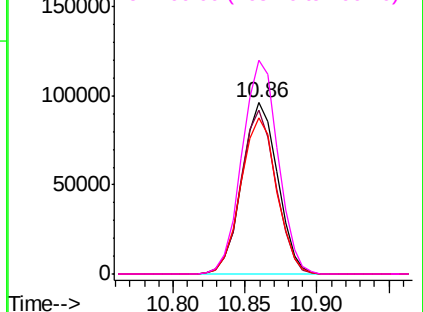


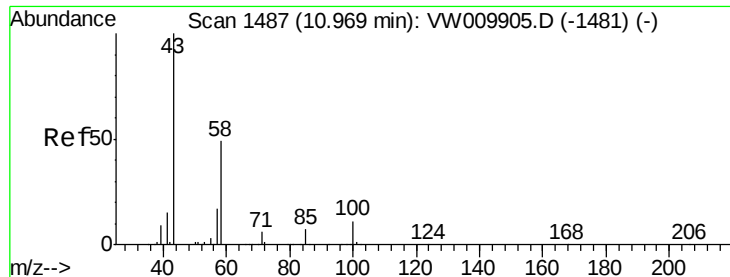
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

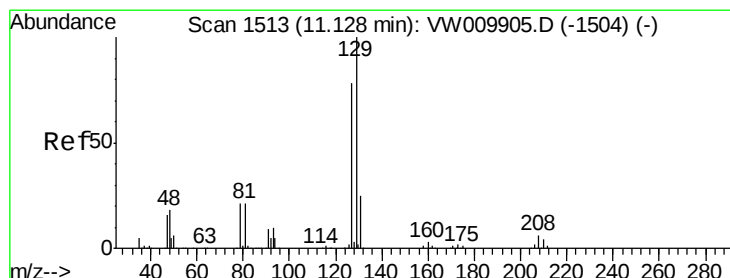
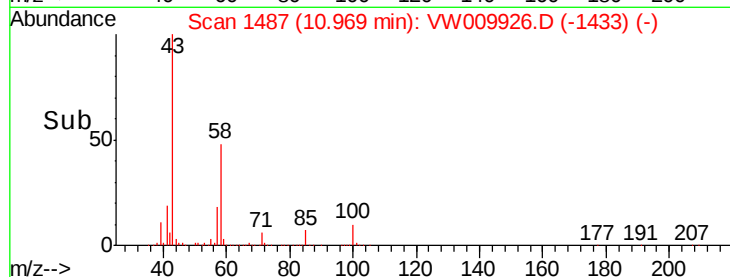
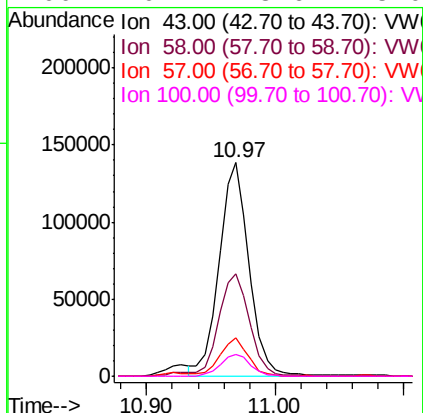
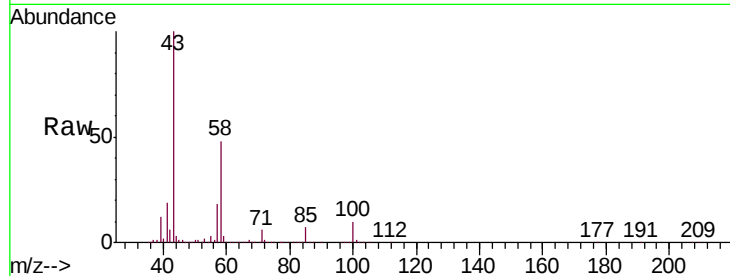




#49  
2-Hexanone  
Concen: 49.374 ug/L  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

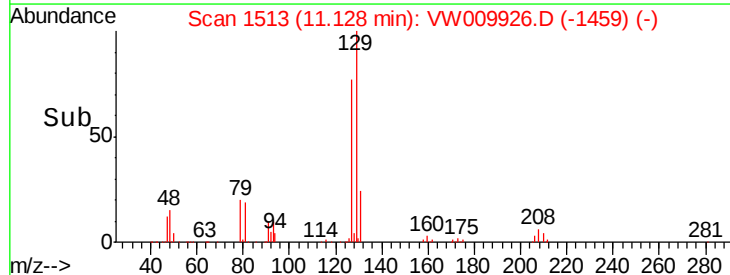
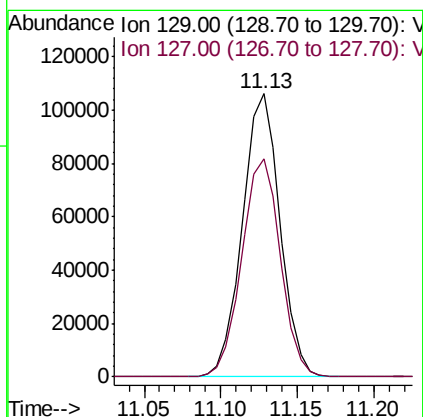
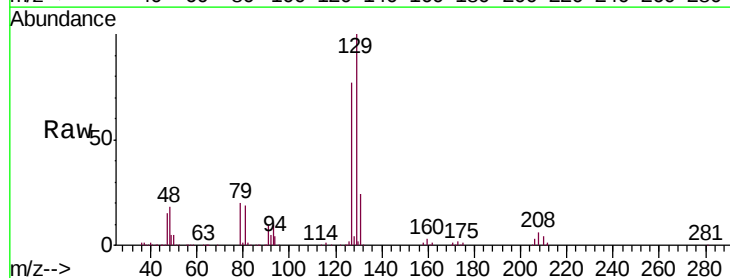
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02528

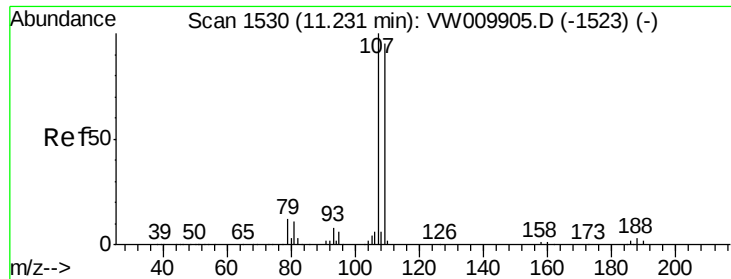
Tgt Ion: 43 Resp: 225594  
Ion Ratio Lower Upper  
43 100  
58 48.8 38.9 58.3  
57 16.8 13.8 20.6  
100 10.1 8.6 13.0



#50  
Dibromochloromethane  
Concen: 24.902 ug/L  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW009926.D  
Acq: 11 Apr 2019 21:23

Tgt Ion: 129 Resp: 181408  
Ion Ratio Lower Upper  
129 100  
127 76.9 53.0 98.4

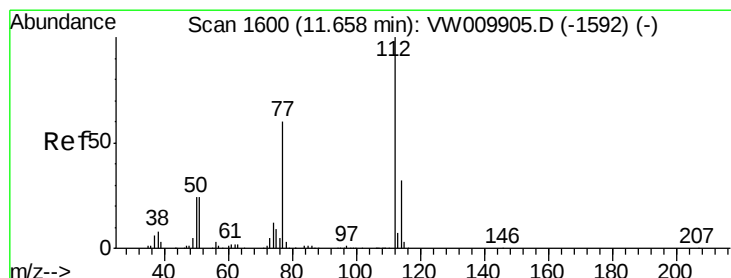
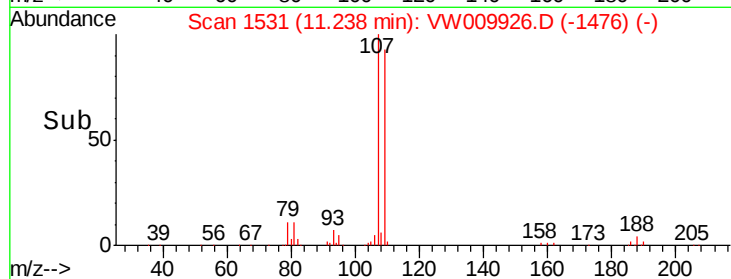
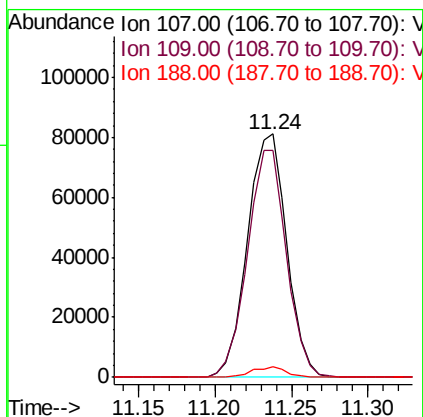
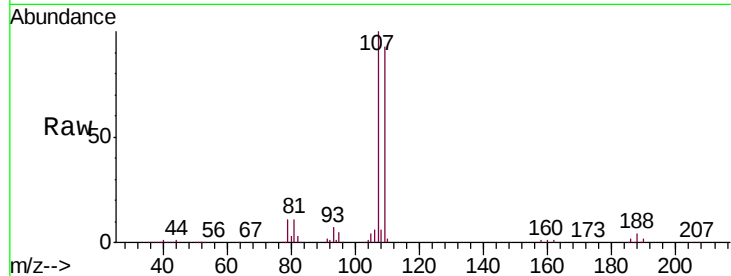




#51  
 1,2-Dibromoethane  
 Concen: 24.409 ug/L  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.01 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

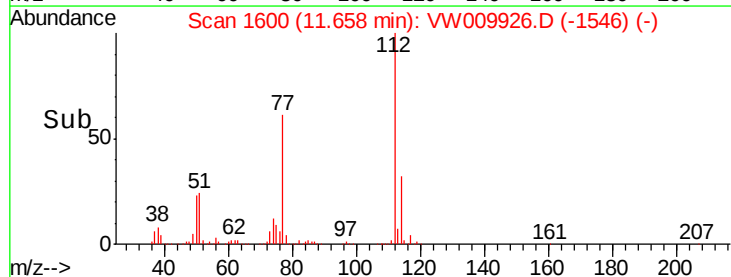
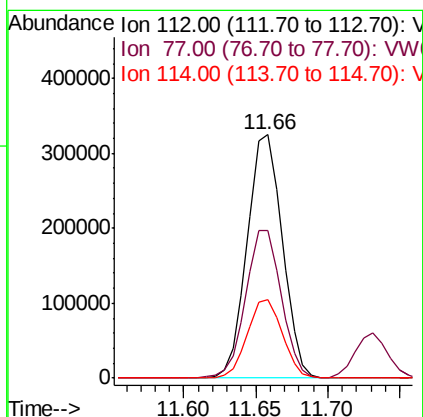
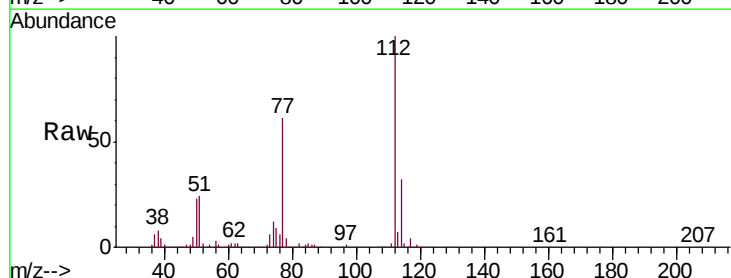
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02528

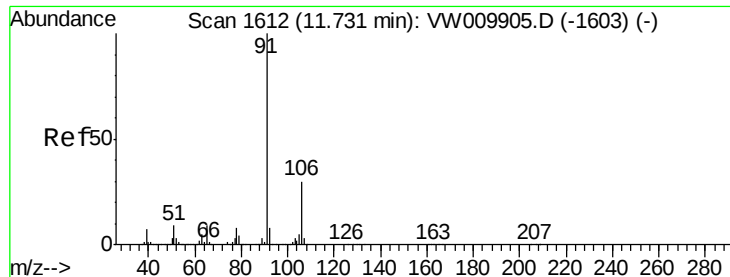
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.1  | 65.4  | 121.4 |
| 188     | 4.2   | 3.2   | 4.8   |



#52  
 Chlorobenzene  
 Concen: 26.145 ug/L  
 RT: 11.66 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 60.5  | 48.2  | 72.2  |
| 114     | 32.0  | 23.0  | 42.6  |





#53

Ethylbenzene

Concen: 27.170 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

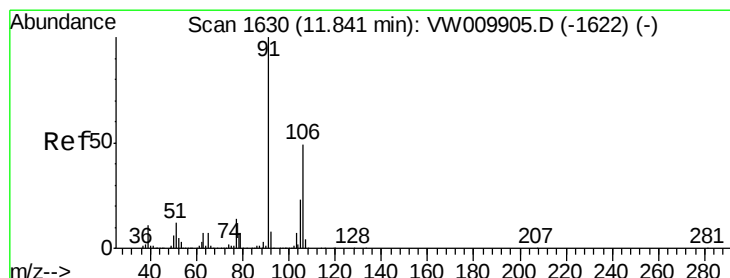
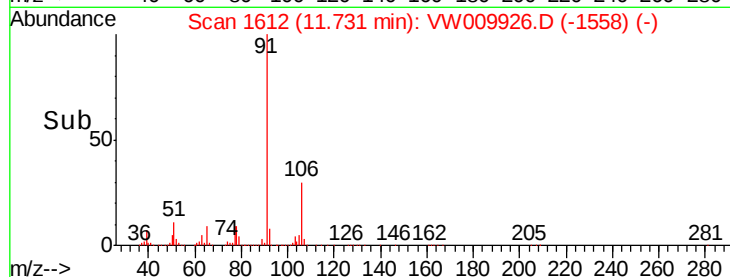
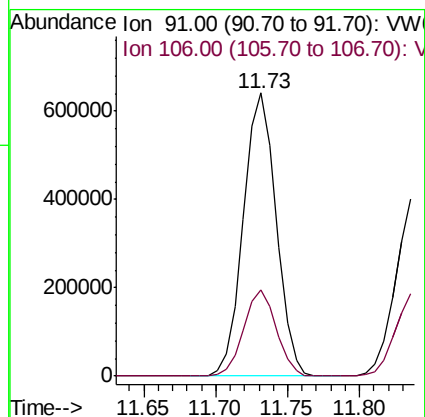
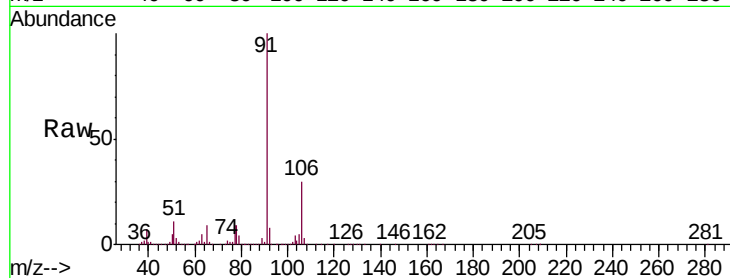
VSTD02528

Tgt Ion: 91 Resp: 1011817

Ion Ratio Lower Upper

91 100

106 30.4 21.5 39.9



#54

m,p-Xylene

Concen: 26.945 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009926.D

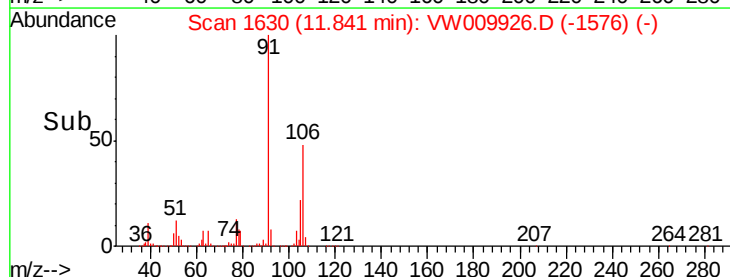
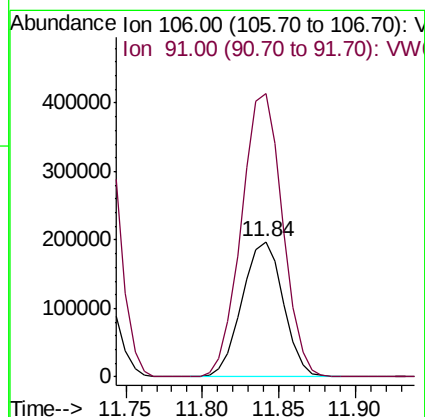
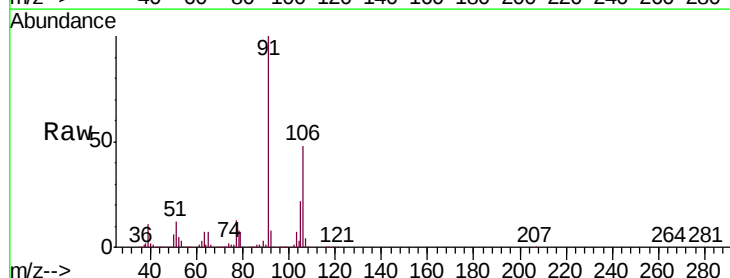
Acq: 11 Apr 2019 21:23

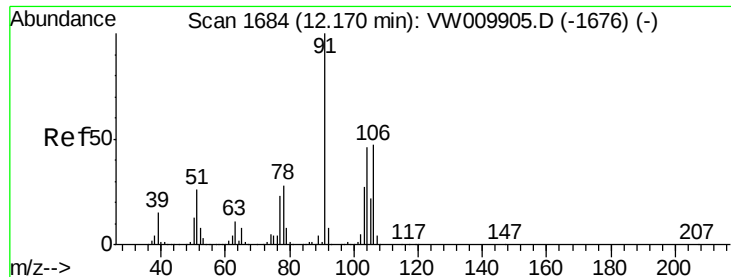
Tgt Ion: 106 Resp: 371143

Ion Ratio Lower Upper

106 100

91 209.2 145.3 269.9





#55

o-xylene

Concen: 26.924 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

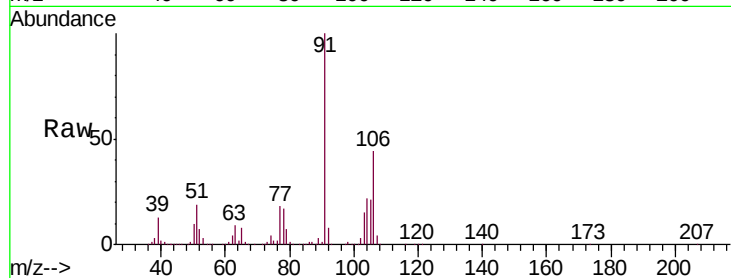
VSTD02528

Tgt Ion:106 Resp: 353203

Ion Ratio Lower Upper

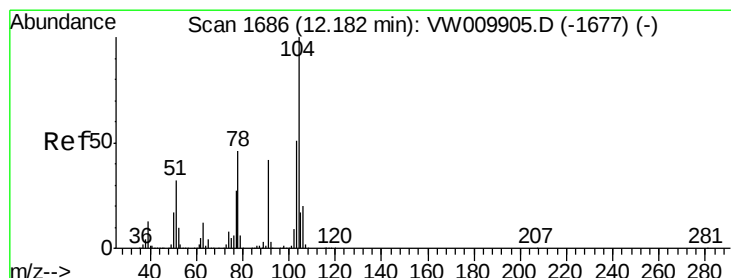
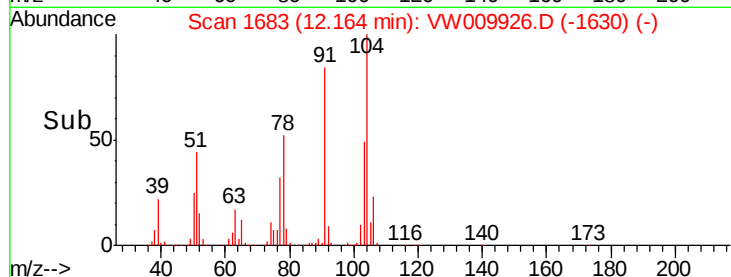
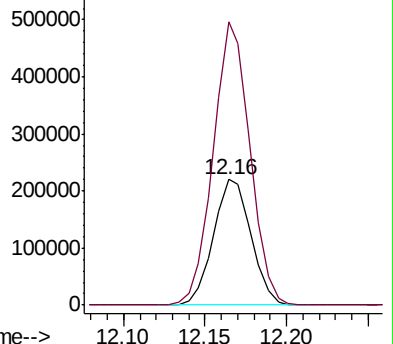
106 100

91 225.5 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.259 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009926.D

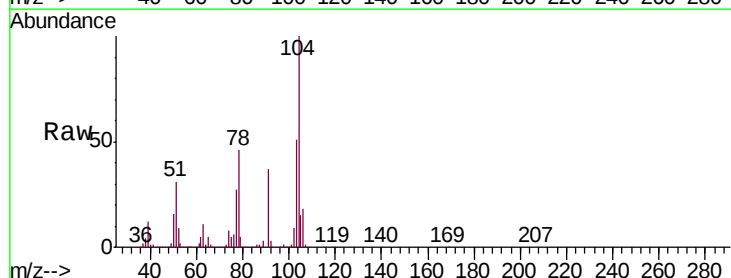
Acq: 11 Apr 2019 21:23

Tgt Ion:104 Resp: 620454

Ion Ratio Lower Upper

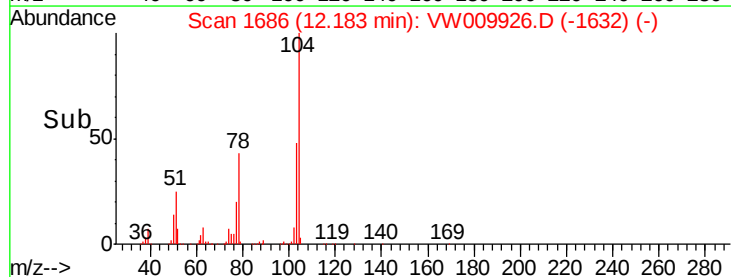
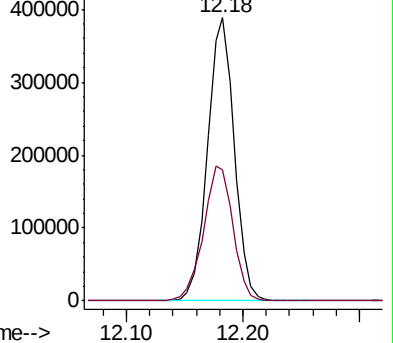
104 100

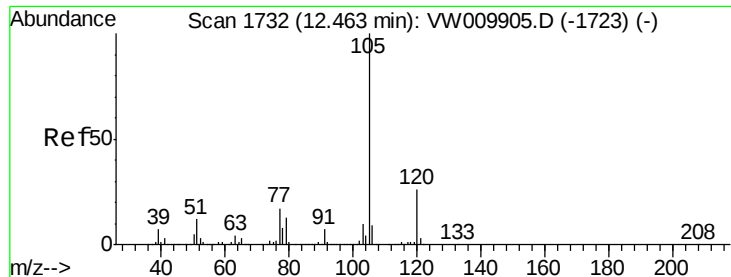
78 46.3 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 27.759 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

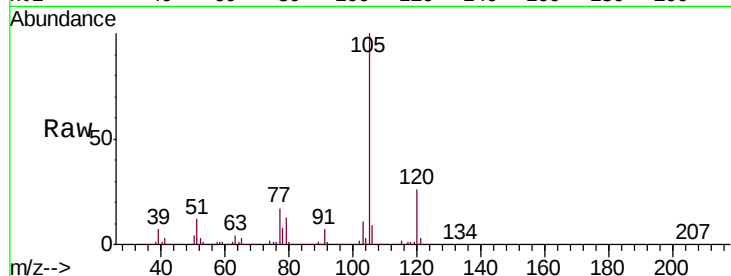
Tgt Ion: 105 Resp: 997103

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

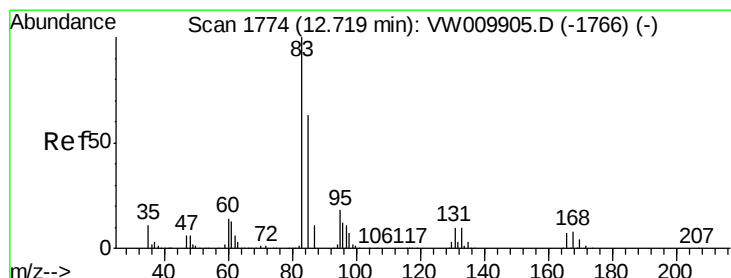
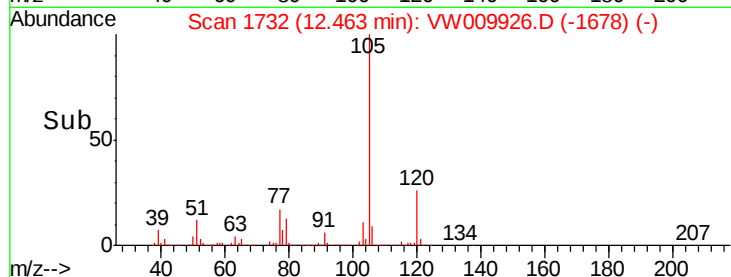
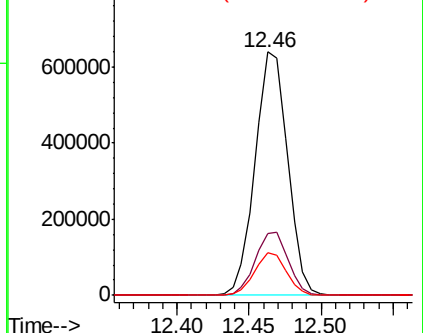
77 16.9 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): VW

Ion 120.00 (119.70 to 120.70): VW

Ion 77.00 (76.70 to 77.70): VW



#58

1,1,2,2-Tetrachloroethane

Concen: 24.640 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

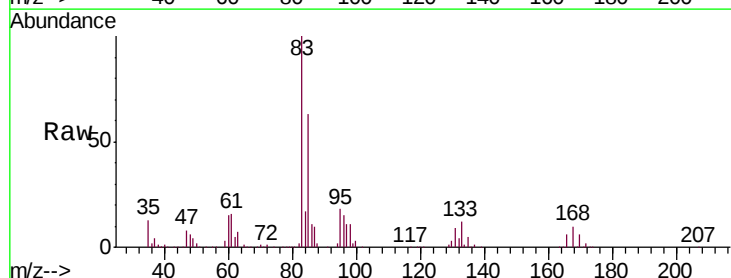
Tgt Ion: 83 Resp: 196463

Ion Ratio Lower Upper

83 100

85 63.1 44.9 83.3

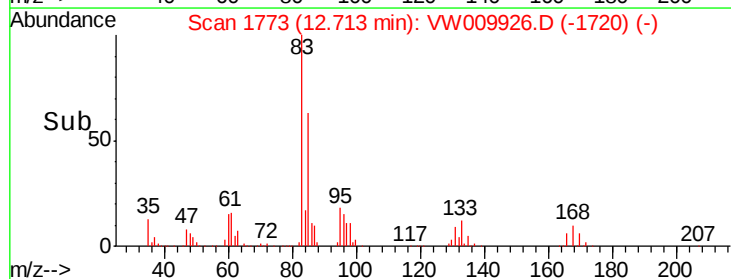
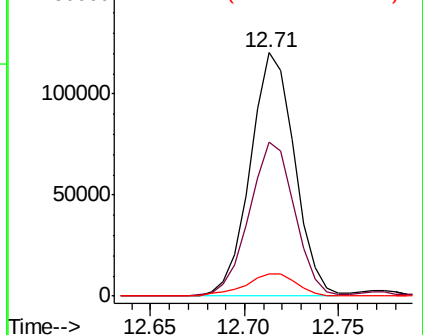
131 9.3 7.2 10.8

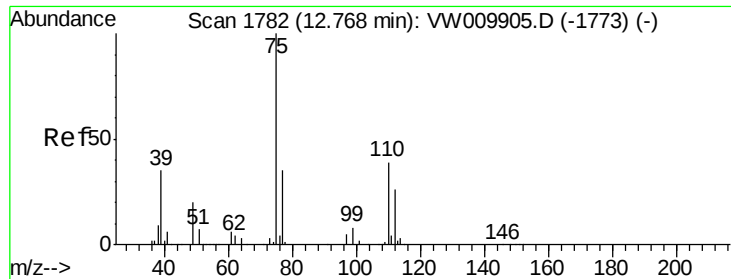


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW





#59

1,2,3-Trichloropropane

Concen: 24.567 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

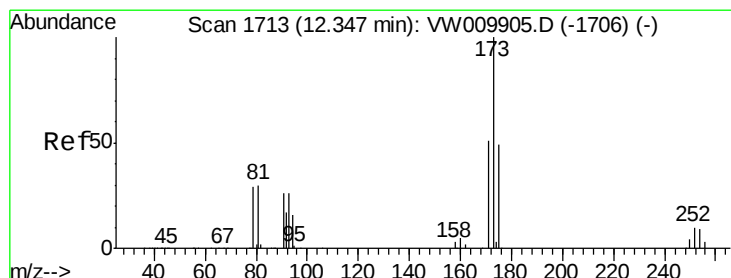
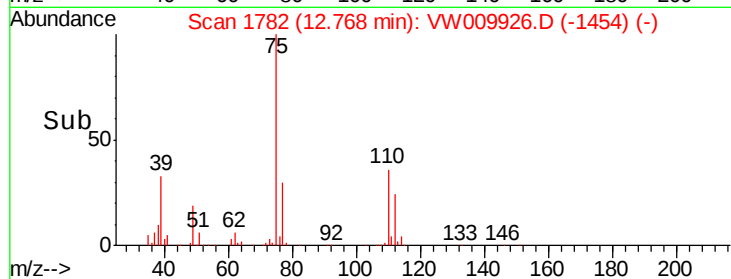
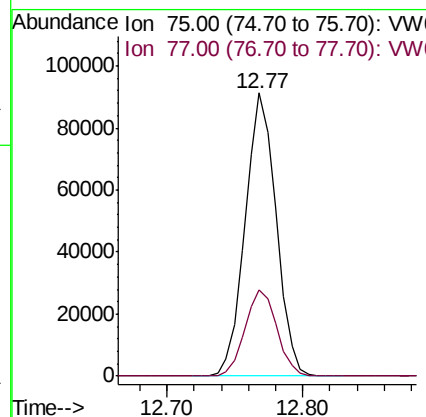
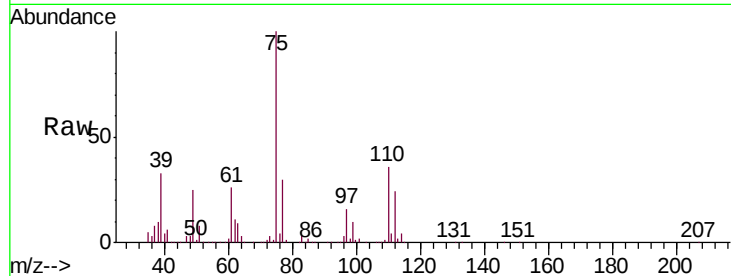
VSTD02528

Tgt Ion: 75 Resp: 145815

Ion Ratio Lower Upper

75 100

77 31.3 26.2 39.2



#62

Bromoform

Concen: 22.721 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

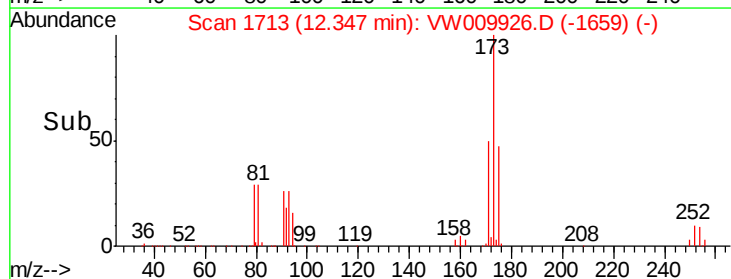
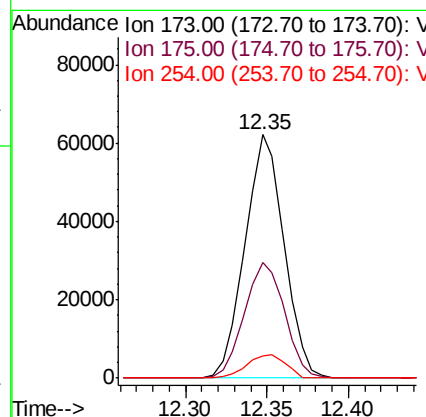
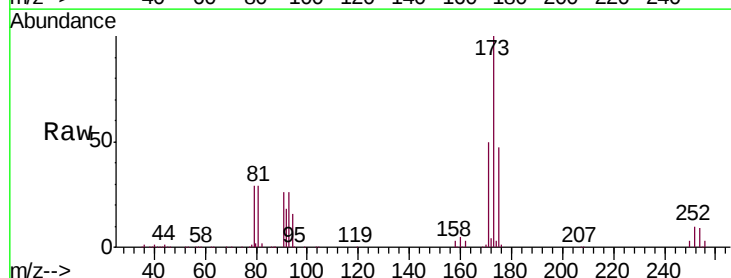
Tgt Ion: 173 Resp: 103949

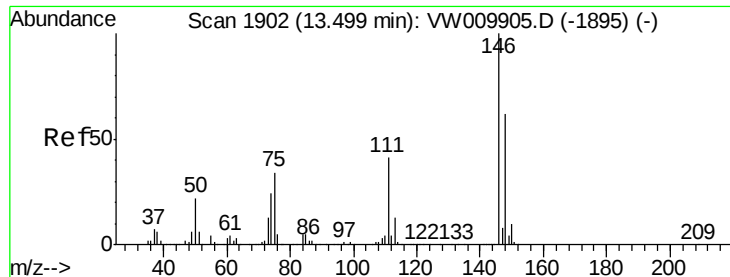
Ion Ratio Lower Upper

173 100

175 48.8 39.4 59.2

254 9.5 8.5 12.7

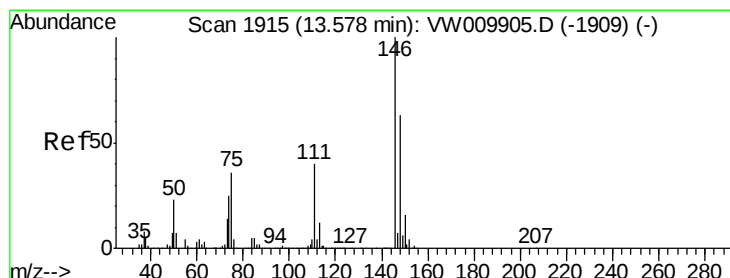
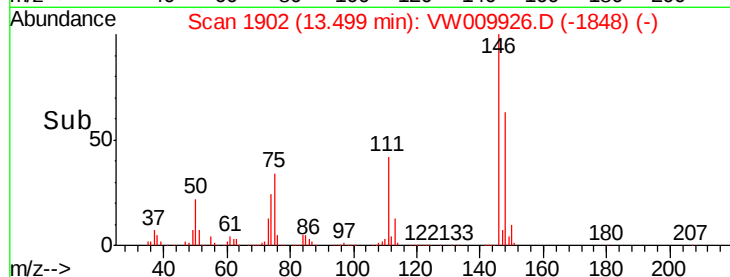
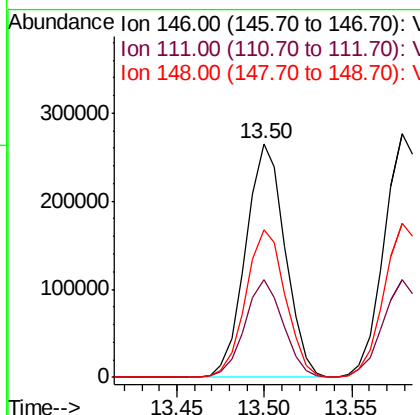
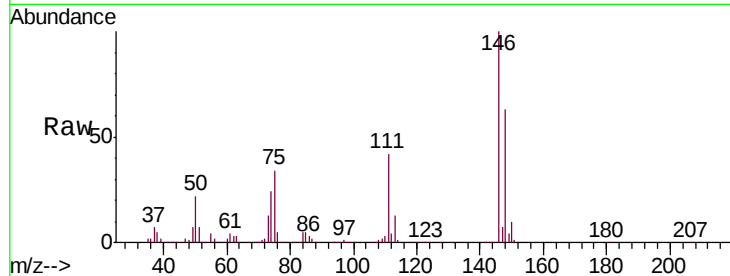




#63  
 1,3-Dichlorobenzene  
 Concen: 25.863 ug/L  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

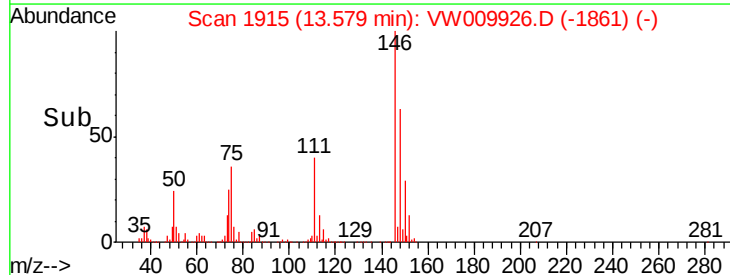
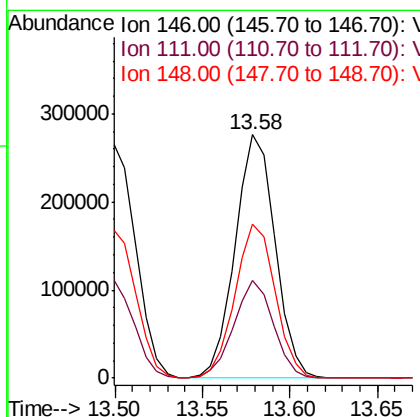
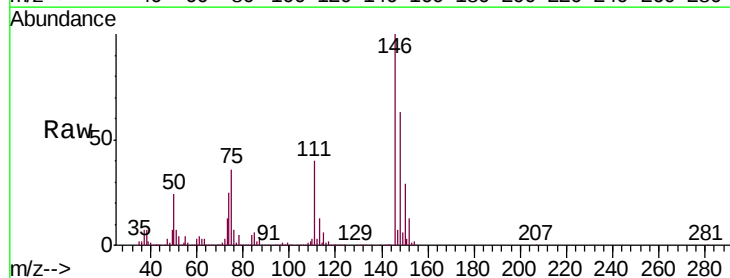
Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 VSTD02528

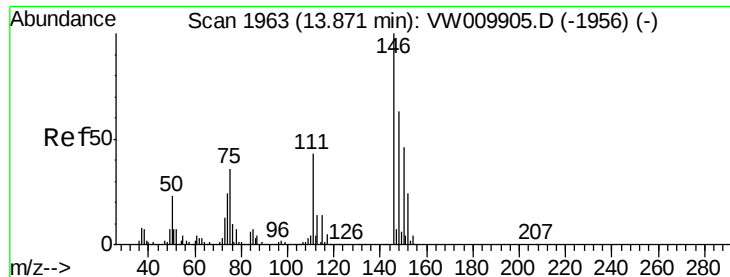
Tgt Ion:146 Resp: 416299  
 Ion Ratio Lower Upper  
 146 100  
 111 41.8 28.1 52.3  
 148 63.4 44.3 82.3



#64  
 1,4-Dichlorobenzene  
 Concen: 25.536 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

Tgt Ion:146 Resp: 438314  
 Ion Ratio Lower Upper  
 146 100  
 111 40.1 27.4 50.8  
 148 63.0 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 25.855 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

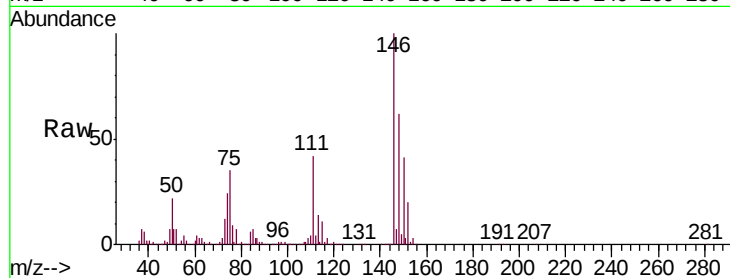
Tgt Ion:146 Resp: 398139

Ion Ratio Lower Upper

146 100

111 41.6 32.4 48.6

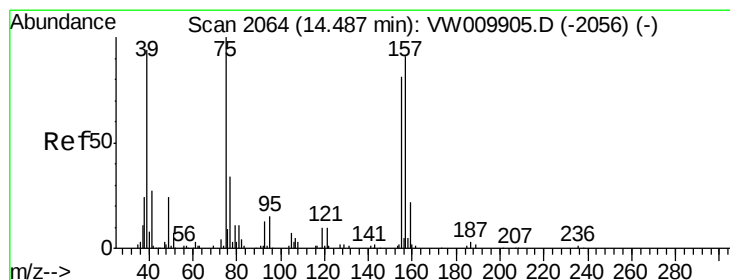
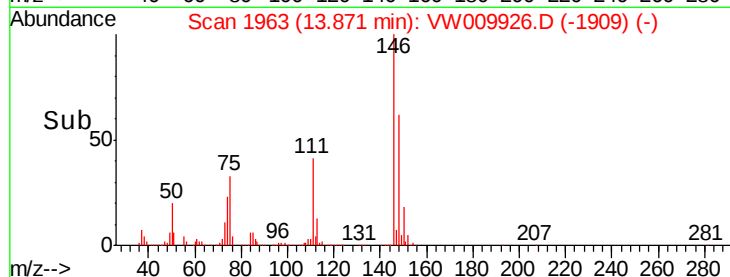
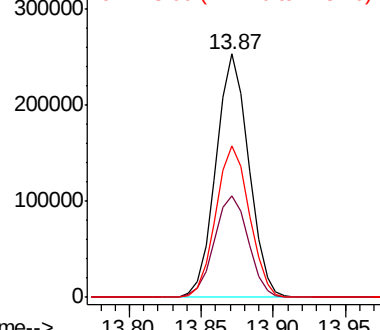
148 62.1 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): 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: 22.295 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

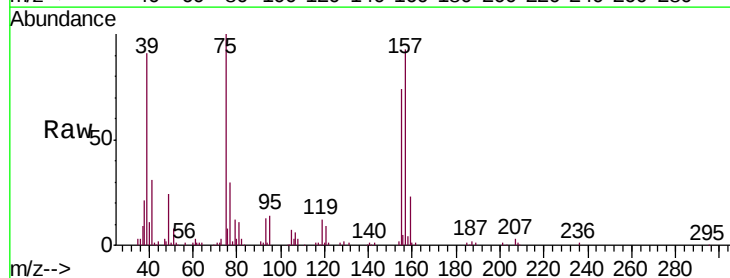
Tgt Ion: 75 Resp: 33419

Ion Ratio Lower Upper

75 100

157 92.8 77.2 115.8

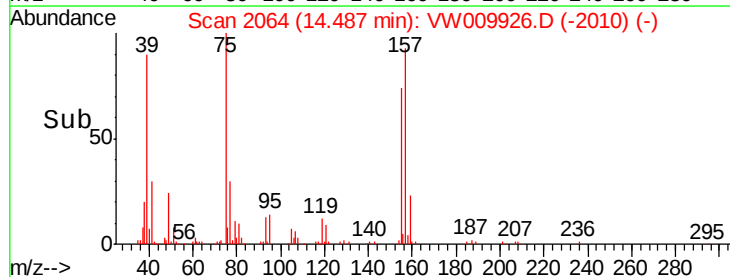
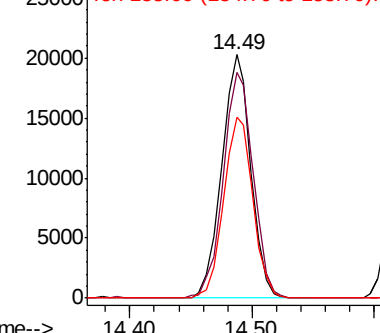
155 74.1 61.9 92.9

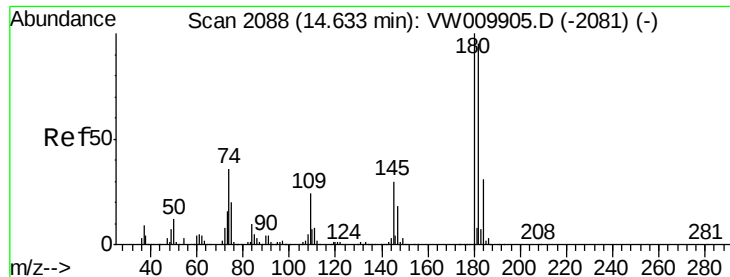


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

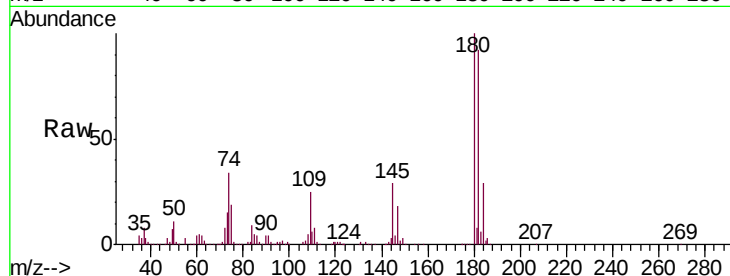




#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.524 ug/L  
 RT: 14.63 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02528

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.8  | 75.8  | 113.6 |
| 184     | 30.6  | 24.7  | 37.1  |
| 145     | 30.1  | 24.5  | 36.7  |



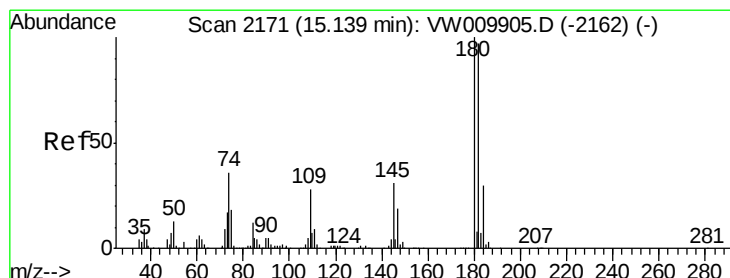
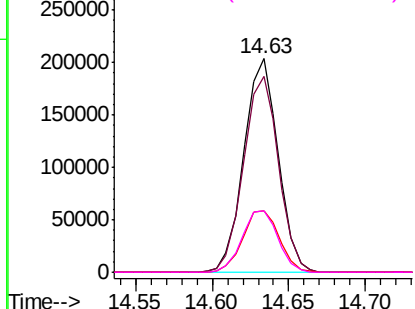
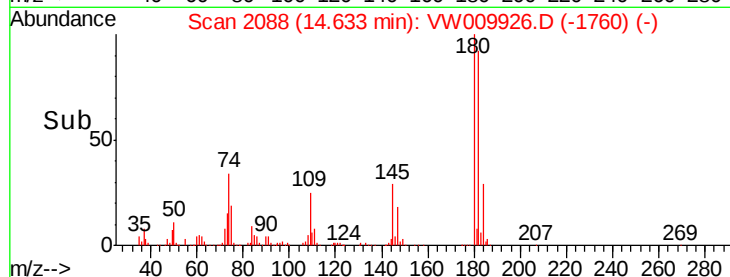
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

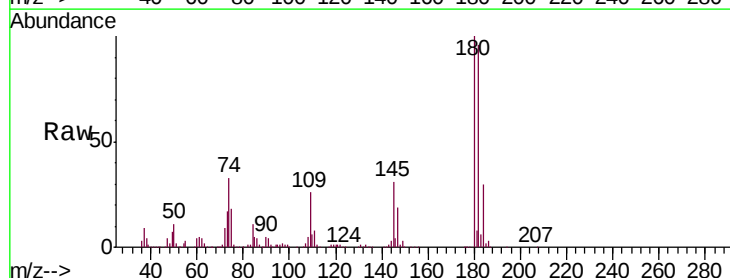
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.681 ug/L  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW009926.D  
 Acq: 11 Apr 2019 21:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.2  | 75.8  | 113.8 |
| 145     | 31.0  | 24.3  | 36.5  |

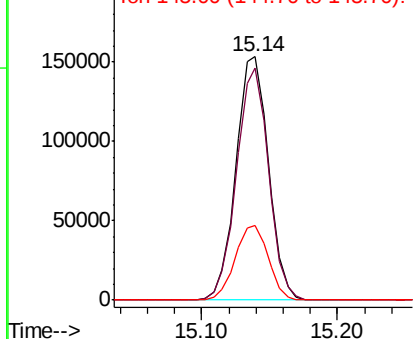
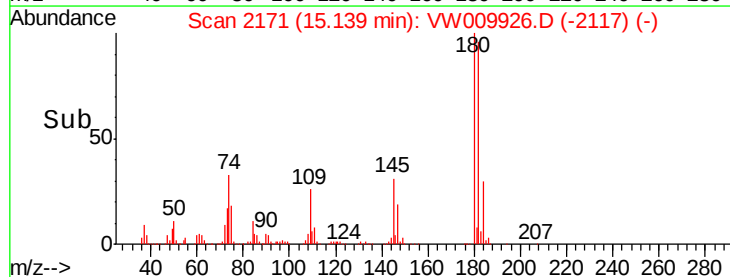


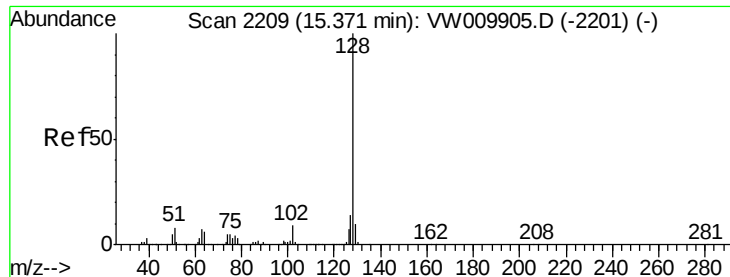
Abundance

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: 25.570 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

Instrument :

MSVOA\_W

ClientSampleId :

VSTD02528

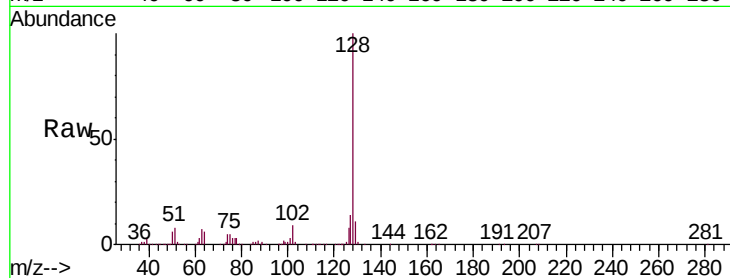
Tgt Ion:128 Resp: 492913

Ion Ratio Lower Upper

128 100

129 11.2 8.5 12.7

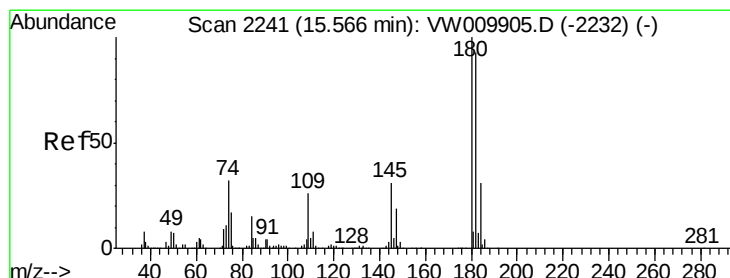
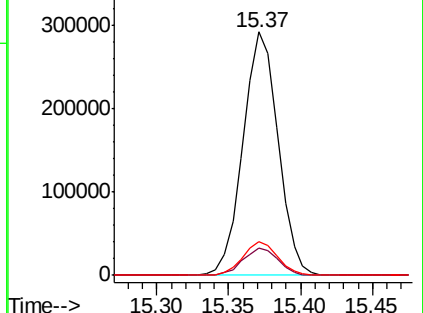
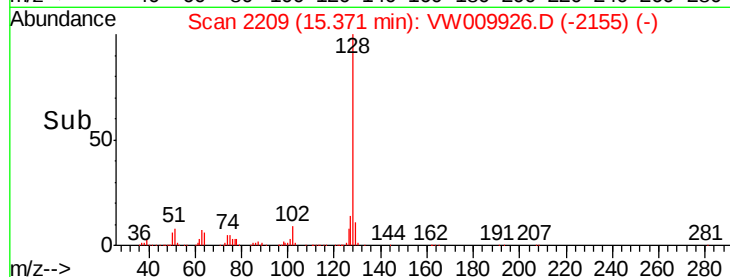
127 13.7 10.8 16.2



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: 26.682 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW009926.D

Acq: 11 Apr 2019 21:23

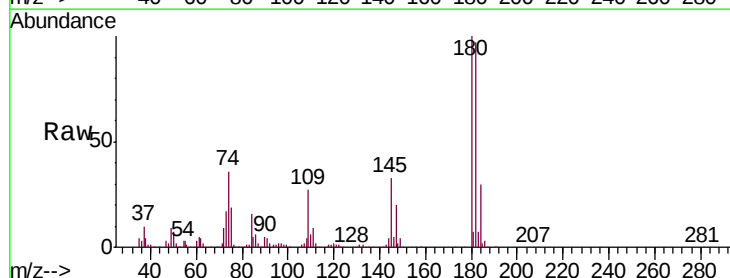
Tgt Ion:180 Resp: 239401

Ion Ratio Lower Upper

180 100

182 95.7 75.0 112.4

145 32.7 25.8 38.6



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

