

Data File : VV012625.D  
Acq On : 09 Sep 2019 15:41  
Operator : SY/MD  
Sample : VSTD010  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01035

Quant Time: Sep 10 08:58:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Sep 10 08:53:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 469774   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 457471   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 237788   | 5.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 290019  | 10.63  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 238693  | 10.40  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 485842  | 10.73  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 753893  | 113.03 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 540590  | 10.68  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 257340  | 10.51  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 1053691 | 10.77  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 331203  | 10.74  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 982373  | 10.77  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 116407  | 10.94  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.13  | 63  | 502912  | 124.11 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 243219  | 10.92  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 375565  | 10.75  | ug/L | 0.00 |

Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 394079  | 11.487  | ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 389724  | 11.791  | ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 398493  | 11.543  | ug/L | 97     |
| 6) Bromomethane                | 1.54 | 94  | 224634  | 11.911  | ug/L | 98     |
| 8) Chloroethane                | 1.60 | 64  | 235488  | 11.494  | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 507206  | 11.569  | ug/L | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 304991  | 11.604  | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 280362  | 11.430  | ug/L | 100    |
| 13) Acetone                    | 2.23 | 43  | 434125  | 118.863 | ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 784173  | 11.673  | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 117373  | 11.801  | ug/L | 99     |
| 16) Methylene chloride         | 2.53 | 84  | 303580  | 11.494  | ug/L | 99     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 692421  | 12.049  | ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 331249  | 11.816  | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 624951  | 11.851  | ug/L | 99     |
| 21) 2-Butanone                 | 4.05 | 43  | 830145  | 124.918 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 363358  | 12.121  | ug/L | 98     |
| 23) Bromochloromethane         | 4.30 | 128 | 153472  | 11.872  | ug/L | 98     |
| 25) Chloroform                 | 4.42 | 83  | 632315  | 11.500  | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 362873  | 11.850  | ug/L | 100    |
| 29) 1,1,1-Trichloroethane      | 4.65 | 97  | 507655  | 11.881  | ug/L | 99     |
| 30) Cyclohexane                | 4.72 | 56  | 549317  | 12.744  | ug/L | 100    |
| 31) Carbon tetrachloride       | 4.87 | 117 | 451372  | 11.931  | ug/L | 99     |
| 33) Benzene                    | 5.14 | 78  | 1395358 | 11.876  | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 367751  | 11.901  | ug/L | 99     |
| 35) Methylcyclohexane          | 6.17 | 83  | 565654  | 12.610  | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 347058  | 11.938  | ug/L | 100    |
| 38) Bromodichloromethane       | 6.55 | 83  | 427009  | 11.798  | ug/L | 99     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 471522  | 12.573  | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 2059650 | 127.036 | ug/L | 98     |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Sep 10 08:53:49 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 1505051  | 12.018  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 357365   | 12.663  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 237513   | 11.892  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.02  | 164  | 293791   | 11.914  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.19  | 43   | 1485411  | 123.112 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 286892   | 12.204  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 211713   | 12.026  | ug/L  | 98       |
| 51) Chlorobenzene              | 8.92  | 112  | 945814   | 12.005  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.05  | 91   | 1637890  | 12.513  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 628209   | 12.472  | ug/L  | 99       |
| 54) o-xylene                   | 9.59  | 106  | 610656   | 12.699  | ug/L  | 99       |
| 55) Styrene                    | 9.60  | 104  | 1041668  | 12.471  | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.97  | 105  | 1617733  | 12.647  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 244929   | 12.317  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 202114   | 12.081  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 155253   | 12.313  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 755171   | 11.943  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 746650   | 11.999  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 697240   | 12.038  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 37344    | 12.801  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 561869   | 12.088  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 457117   | 12.749  | ug/L  | 100      |
| 69) Naphthalene                | 13.55 | 128  | 752434   | 14.084  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 446326   | 12.721  | ug/L  | 99       |

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

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VSTD01035

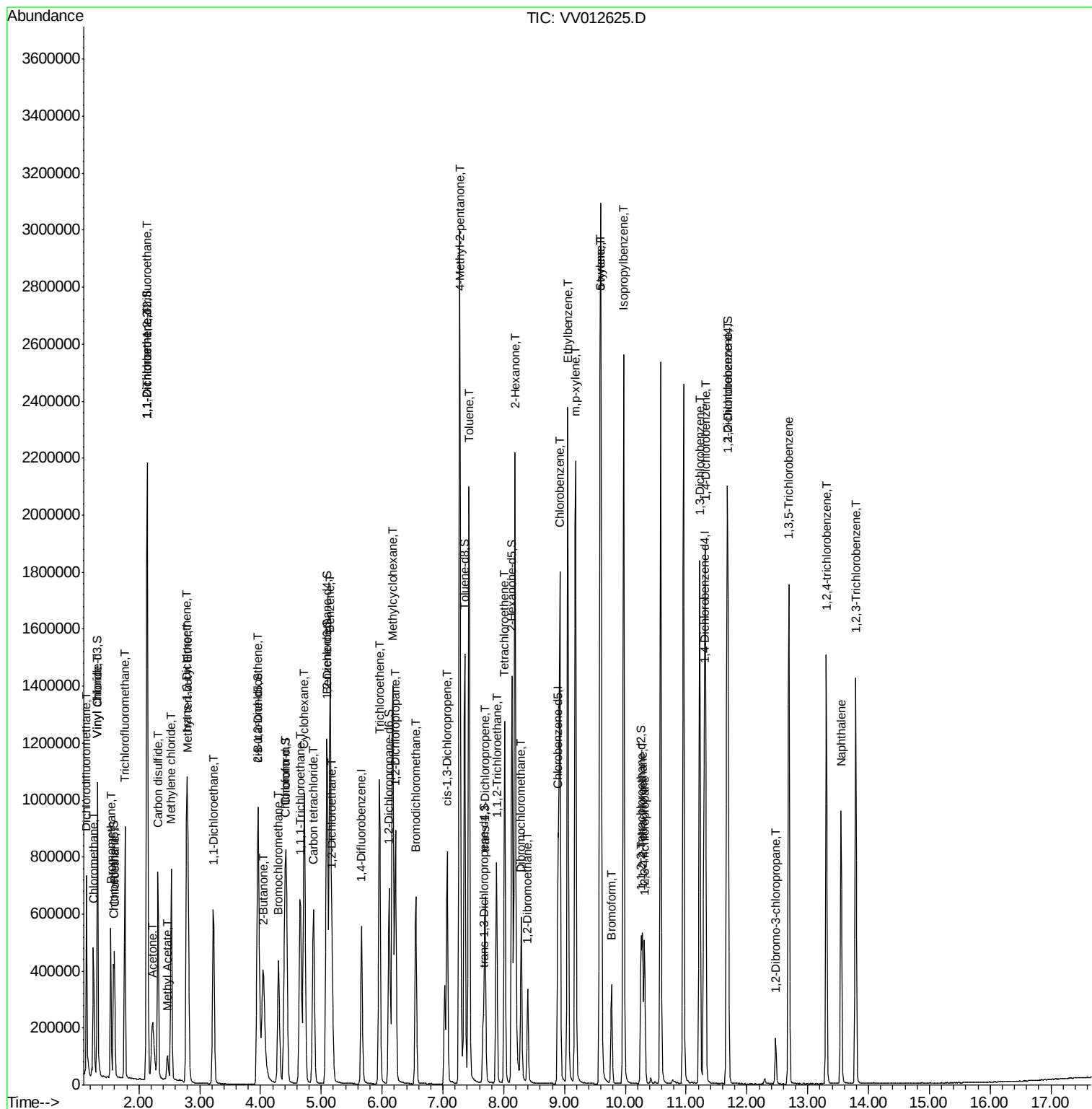
Quant Time: Sep 10 08:58:05 2019

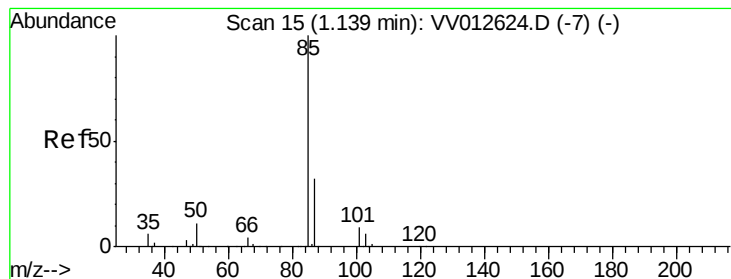
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\S0MVTR090919WMA.M

Quant Title : TRACE VOA SOM01.0

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 11.487 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

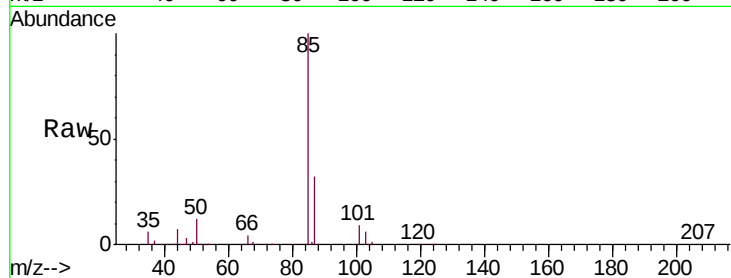
VSTD01035

Tgt Ion: 85 Resp: 394079

Ion Ratio Lower Upper

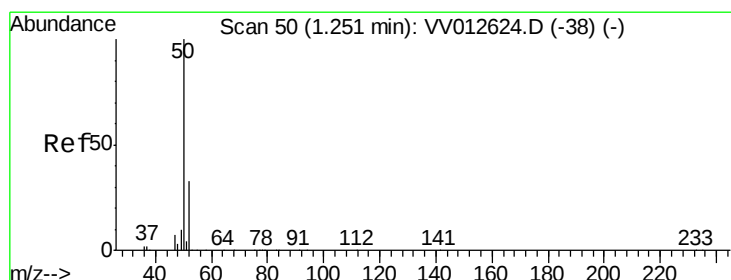
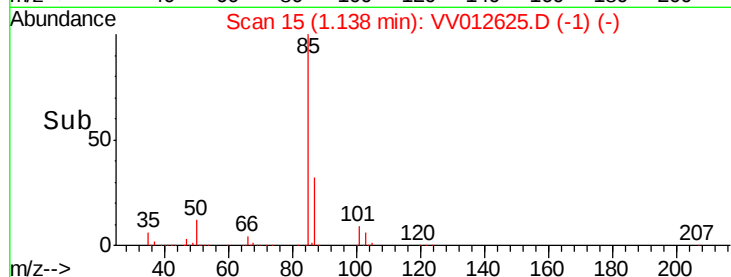
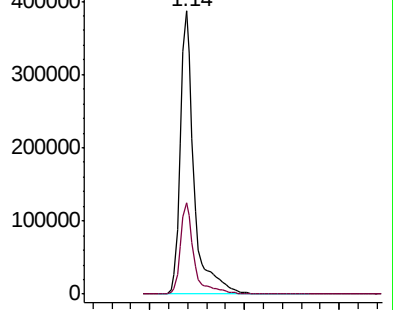
85 100

87 32.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VV012625.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012625.D (-7) (-)



#3

Chloromethane

Concen: 11.791 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012625.D

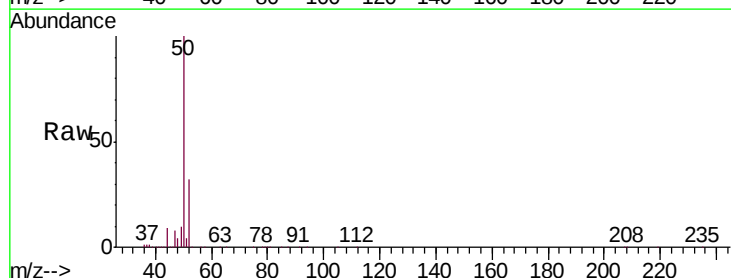
Acq: 09 Sep 2019 15:41

Tgt Ion: 50 Resp: 389724

Ion Ratio Lower Upper

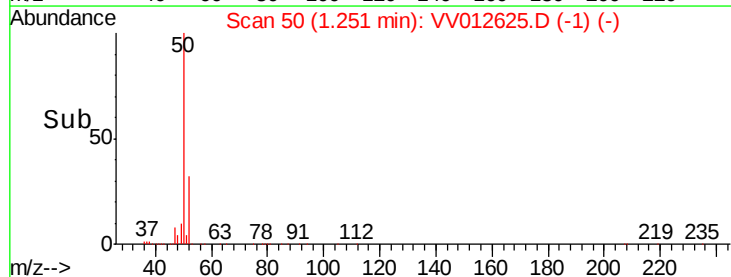
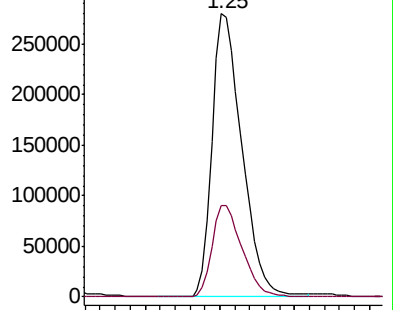
50 100

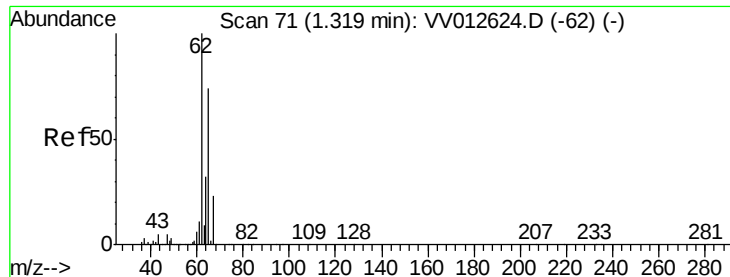
52 32.3 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV012625.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV012625.D (-1) (-)





#5

Vinyl chloride

Concen: 11.543 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

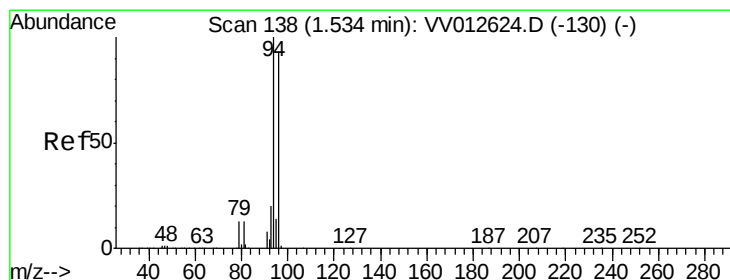
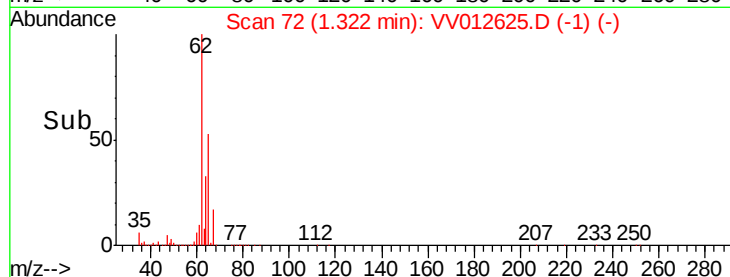
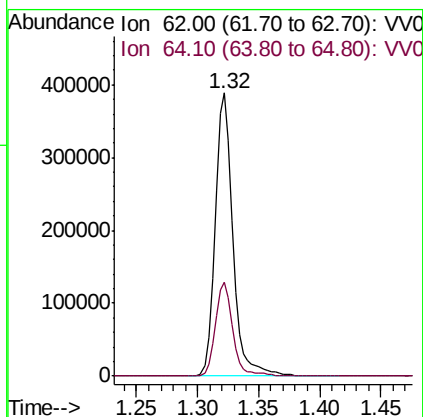
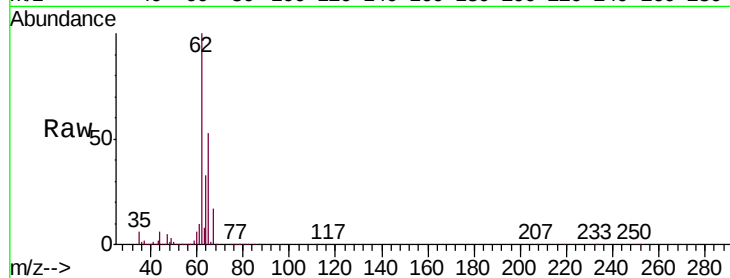
VSTD01035

Tgt Ion: 62 Resp: 398493

Ion Ratio Lower Upper

62 100

64 33.2 22.1 41.1



#6

Bromomethane

Concen: 11.911 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012625.D

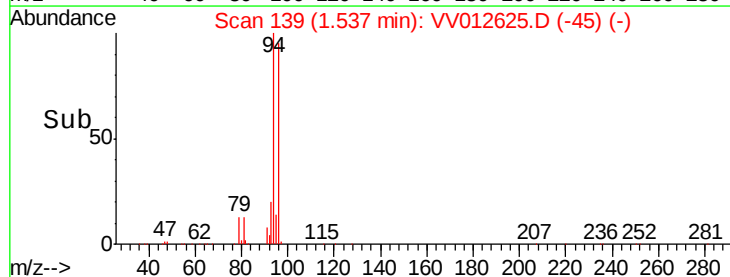
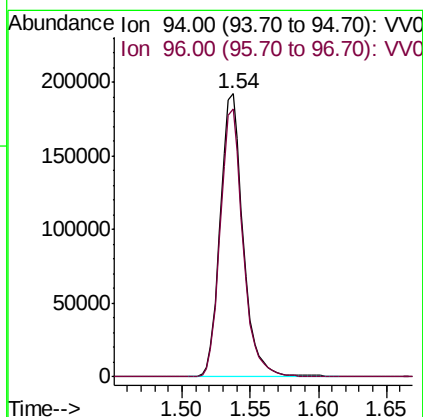
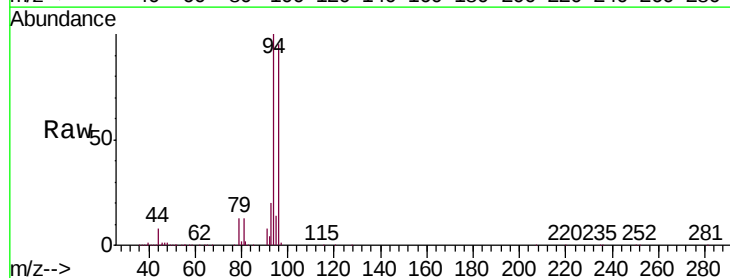
Acq: 09 Sep 2019 15:41

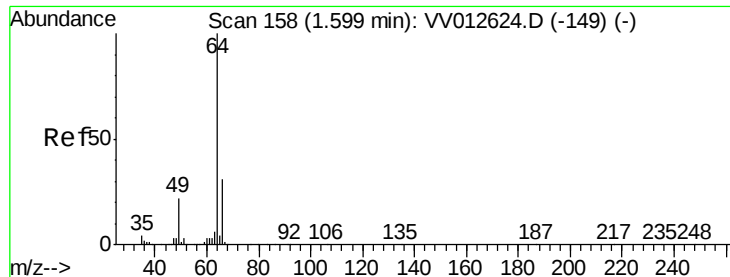
Tgt Ion: 94 Resp: 224634

Ion Ratio Lower Upper

94 100

96 94.5 65.0 120.6





#8

Chloroethane

Concen: 11.494 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

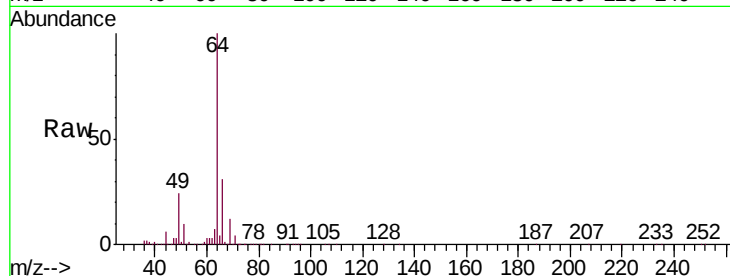
VSTD01035

Tgt Ion: 64 Resp: 235488

Ion Ratio Lower Upper

64 100

66 31.3 21.6 40.0



Abundance Ion 64.10 (63.80 to 64.80): VV012625.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV012625.D (-149) (-)

1.60

200000

150000

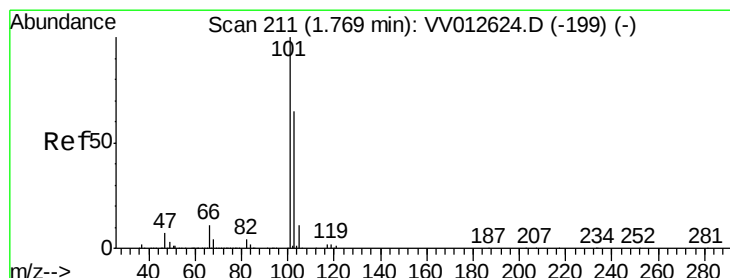
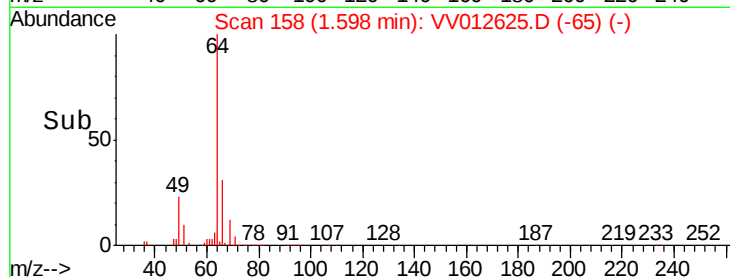
100000

50000

0

1.55 1.60 1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 11.569 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012625.D

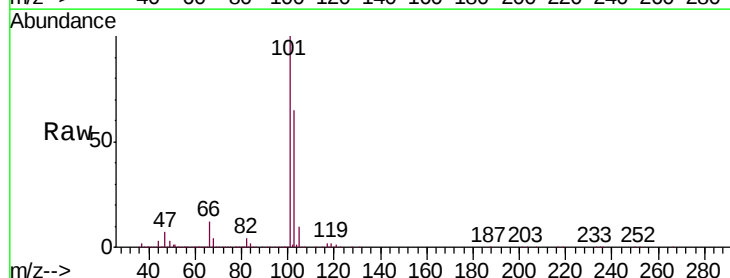
Acq: 09 Sep 2019 15:41

Tgt Ion: 101 Resp: 507206

Ion Ratio Lower Upper

101 100

103 64.5 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): VV012625.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV012625.D (-199) (-)

1.77

400000

300000

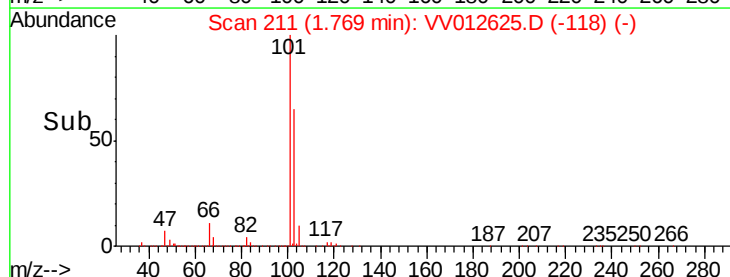
200000

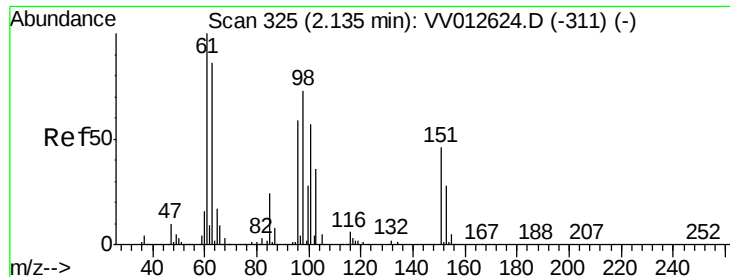
100000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 11.604 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01035

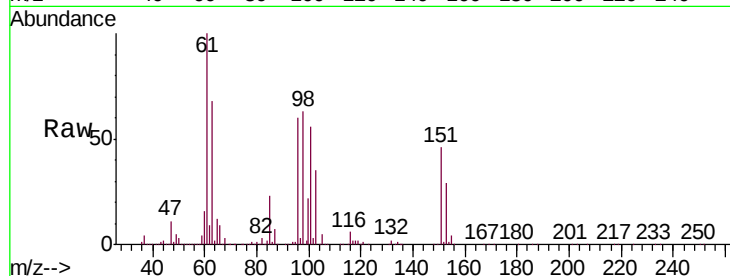
Tgt Ion: 101 Resp: 304991

Ion Ratio Lower Upper

101 100

85 41.6 33.0 49.6

151 81.4 65.8 98.8



Abundance Ion 101.00 (100.70 to 101.70): VV012624.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV012625.D (-232) (-)

Ion 151.00 (150.70 to 151.70): VV012625.D (-233) (-)

250000

200000

150000

100000

50000

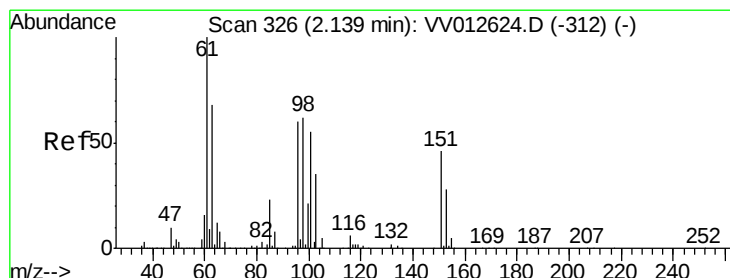
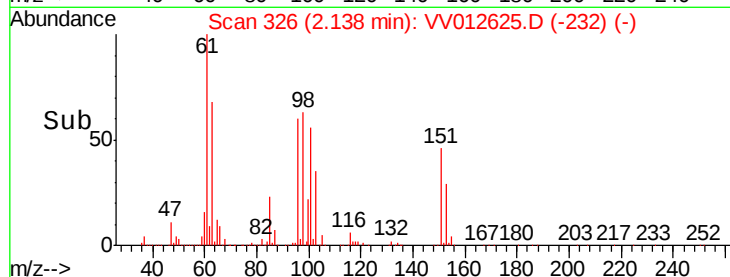
0

2.10

2.14

2.20

Time-->



#12

1,1-Dichloroethene

Concen: 11.430 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

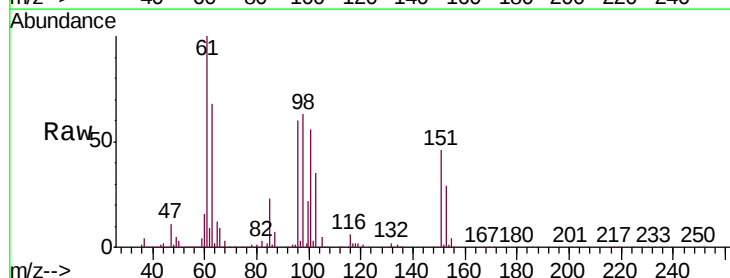
Tgt Ion: 96 Resp: 280362

Ion Ratio Lower Upper

96 100

61 165.7 115.8 215.0

63 113.0 79.4 147.4



Abundance Ion 96.00 (95.70 to 96.70): VV012624.D (-312) (-)

Ion 61.05 (60.75 to 61.75): VV012625.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV012625.D (-233) (-)

400000

300000

200000

100000

0

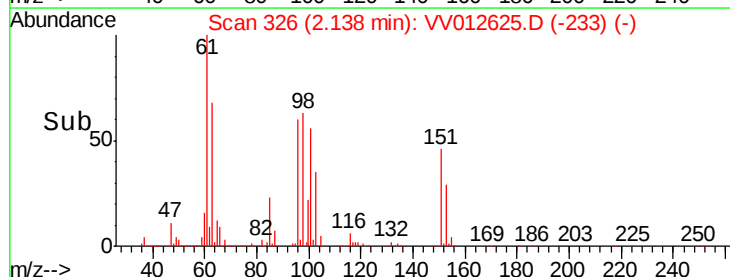
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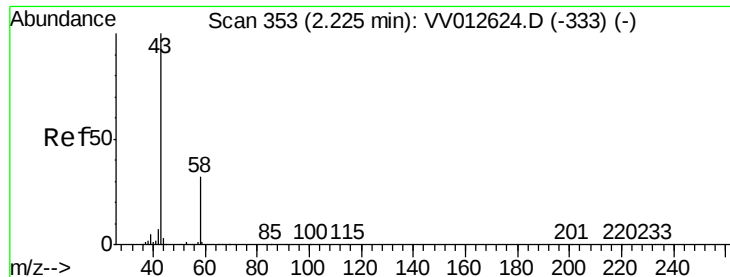
2.10

2.14

2.20

Time-->





#13

Acetone

Concen: 118.863 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

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MSVOA\_V

ClientSampleId :

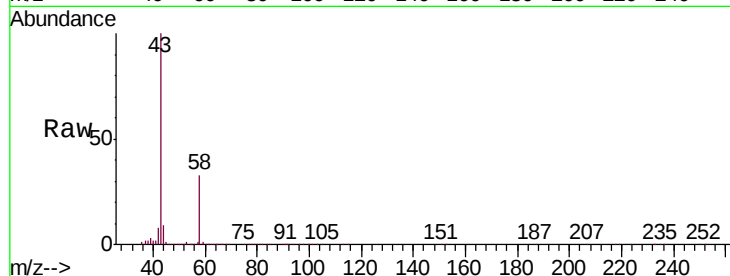
VSTD01035

Tgt Ion: 43 Resp: 434125

Ion Ratio Lower Upper

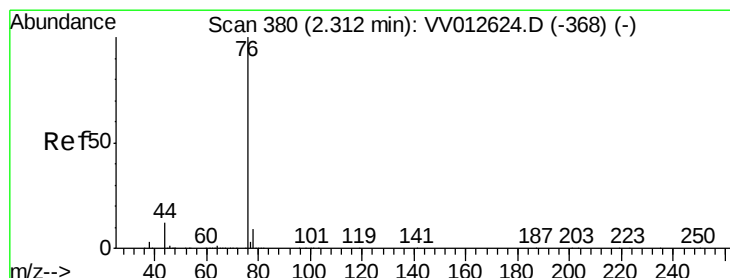
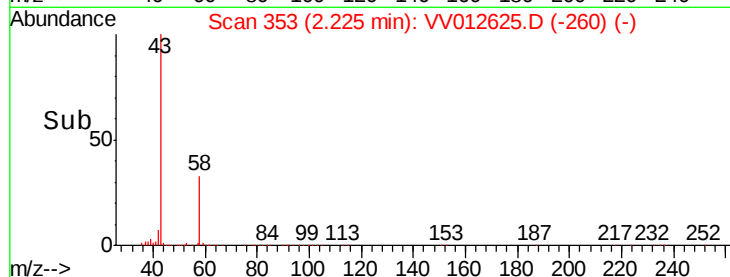
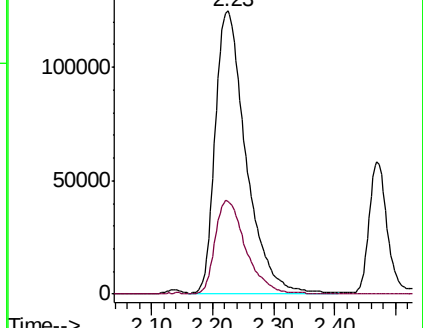
43 100

58 32.9 0.0 67.4



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 11.673 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012625.D

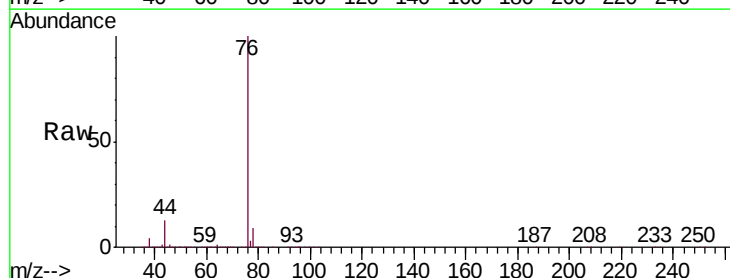
Acq: 09 Sep 2019 15:41

Tgt Ion: 76 Resp: 784173

Ion Ratio Lower Upper

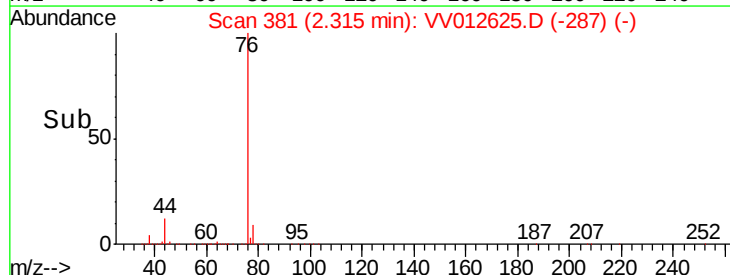
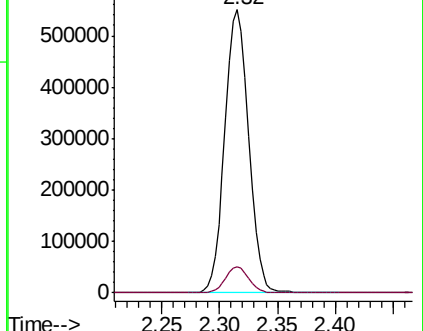
76 100

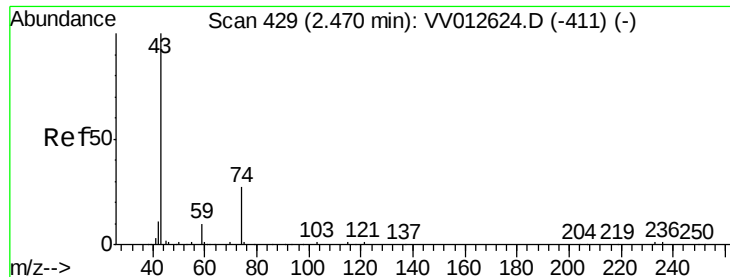
78 9.4 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 11.801 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

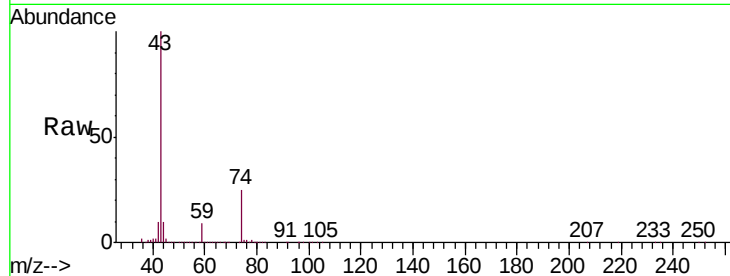
VSTD01035

Tgt Ion: 43 Resp: 117373

Ion Ratio Lower Upper

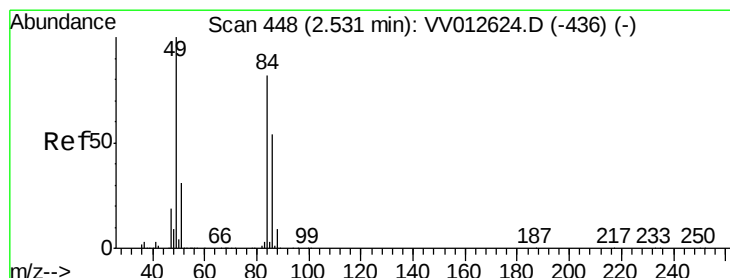
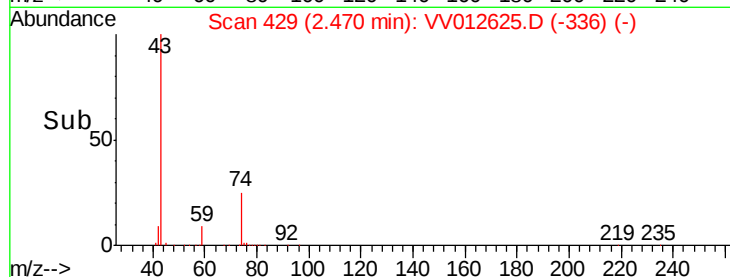
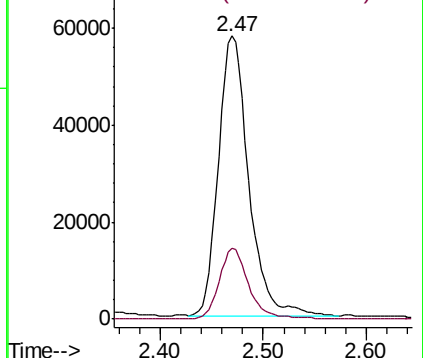
43 100

74 25.2 19.8 29.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 11.494 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

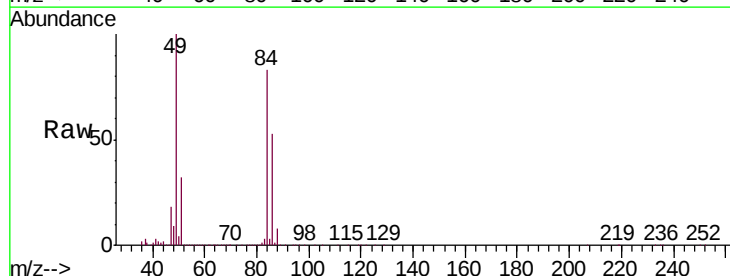
Tgt Ion: 84 Resp: 303580

Ion Ratio Lower Upper

84 100

86 64.0 46.1 85.7

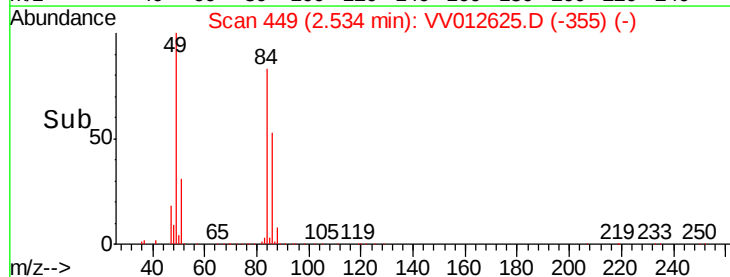
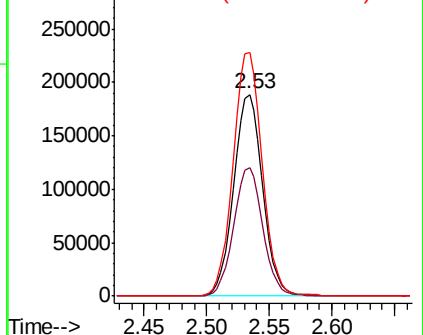
49 120.9 85.3 158.3

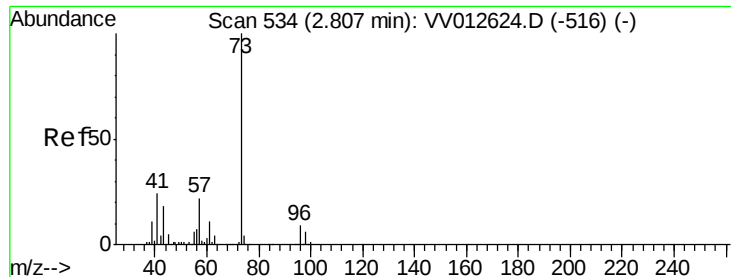


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



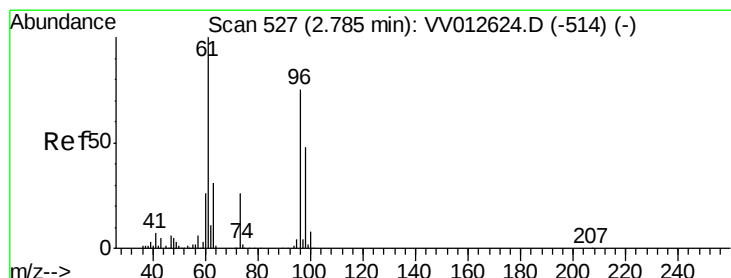
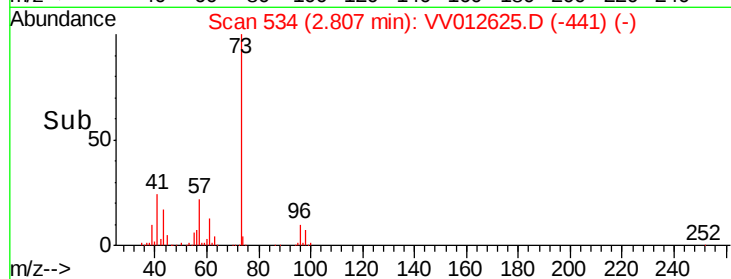
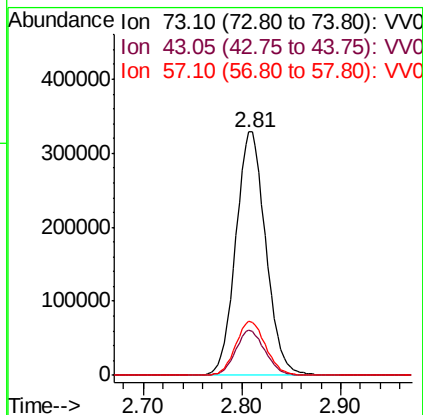
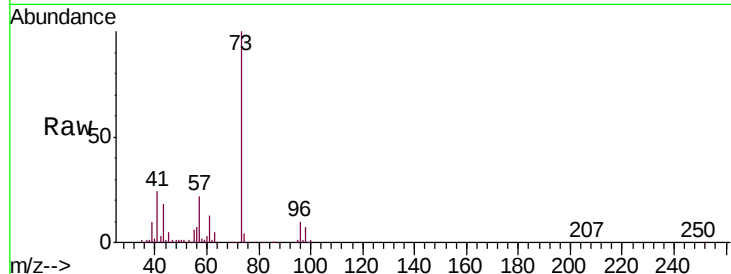


#17

Methyl tert-butyl Ether  
 Concen: 12.049 ug/L  
 RT: 2.81 min Scan# 534  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

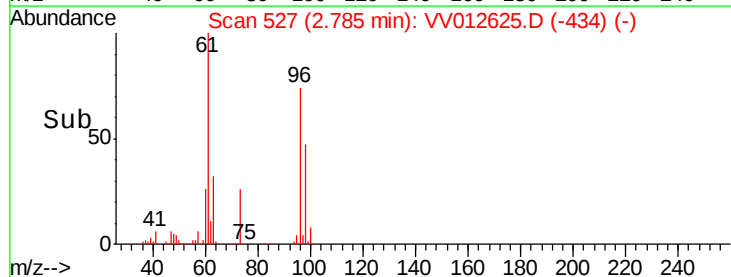
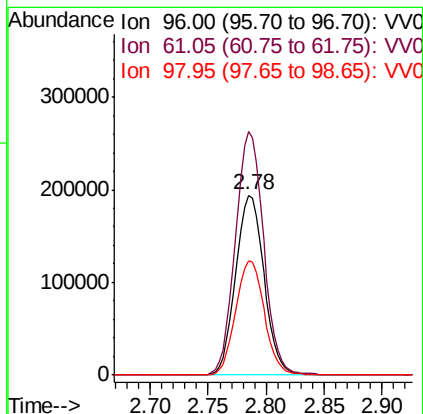
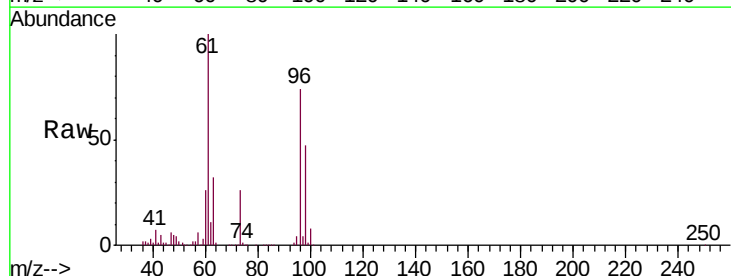
Tgt Ion: 73 Resp: 692421  
 Ion Ratio Lower Upper  
 73 100  
 43 18.0 14.6 21.8  
 57 22.3 18.2 27.2

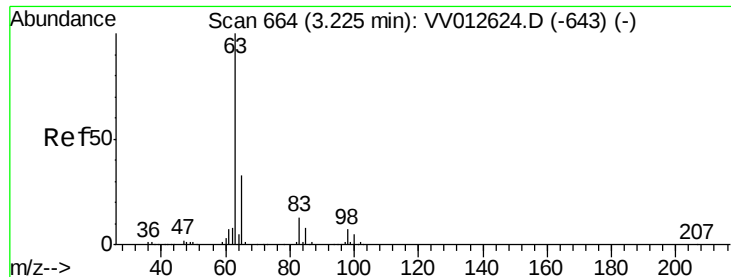


#18

trans-1,2-Dichloroethene  
 Concen: 11.816 ug/L  
 RT: 2.78 min Scan# 527  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Tgt Ion: 96 Resp: 331249  
 Ion Ratio Lower Upper  
 96 100  
 61 135.3 93.0 172.8  
 98 63.4 44.7 83.1

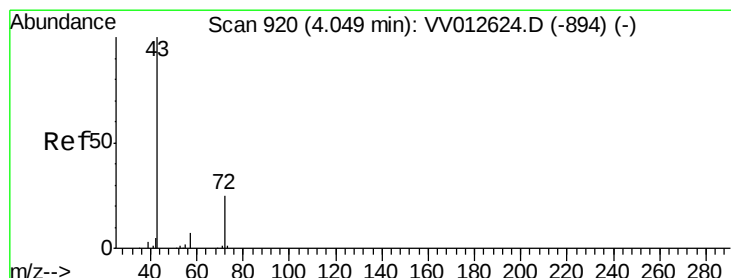
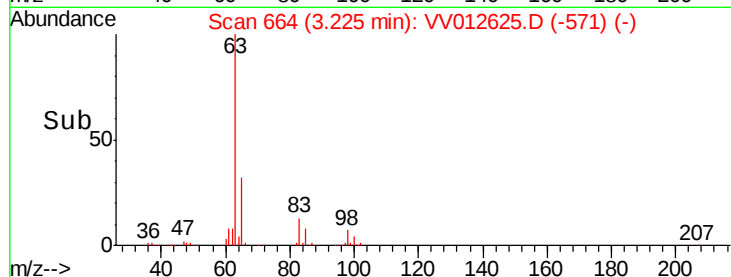
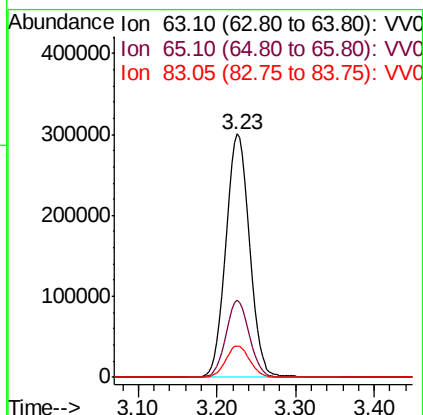
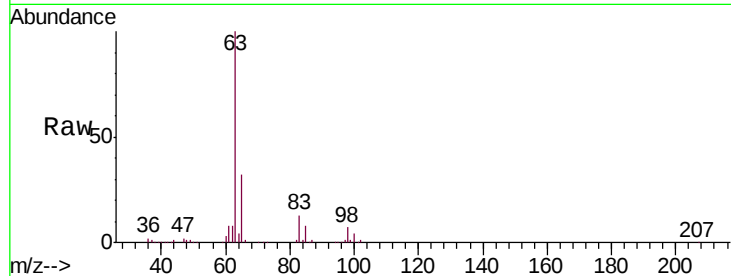




#19  
 1,1-Dichloroethane  
 Concen: 11.851 ug/L  
 RT: 3.23 min Scan# 664  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

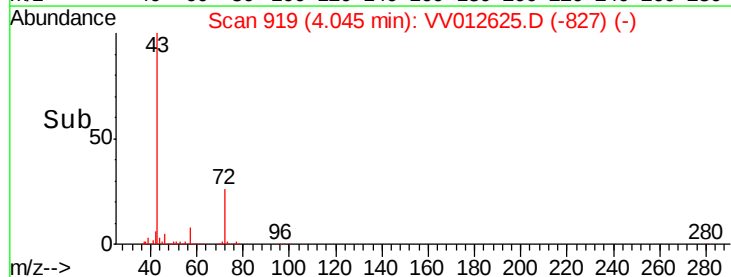
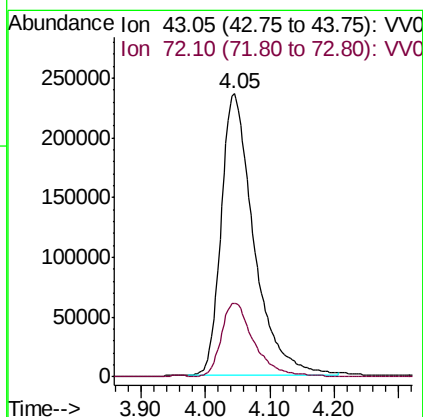
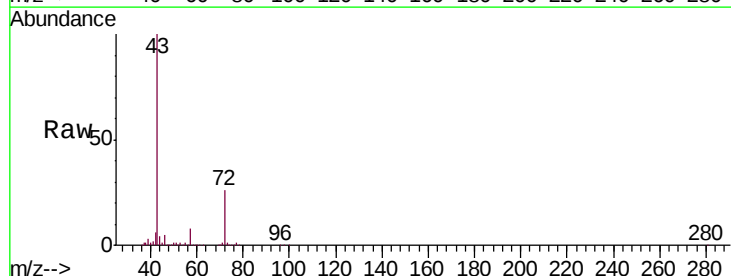
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

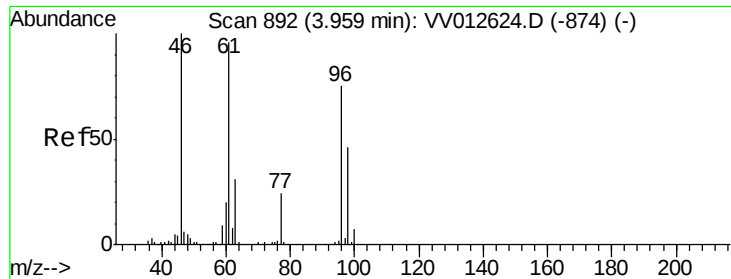
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 624951 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 31.6  | 22.7  | 42.3   |
| 83       | 13.0  | 9.1   | 16.9   |



#21  
 2-Butanone  
 Concen: 124.918 ug/L  
 RT: 4.05 min Scan# 919  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 830145 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 25.9  | 13.0  | 38.9   |



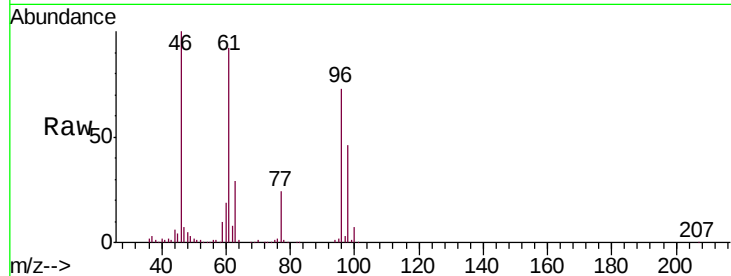


#22

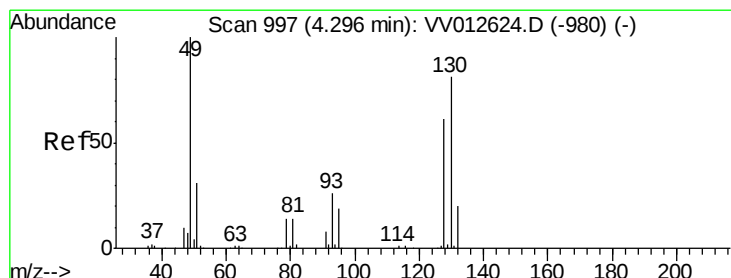
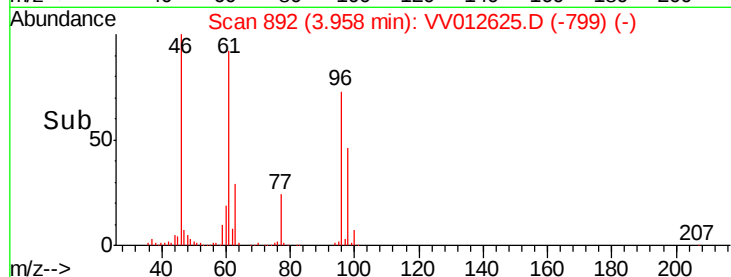
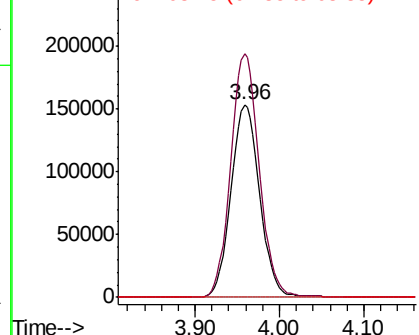
cis-1,2-Dichloroethene  
 Concen: 12.121 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD01035

Tgt Ion: 96 Resp: 363358  
 Ion Ratio Lower Upper  
 96 100  
 61 126.3 89.7 166.5  
 68 0.0 0.0 0.0



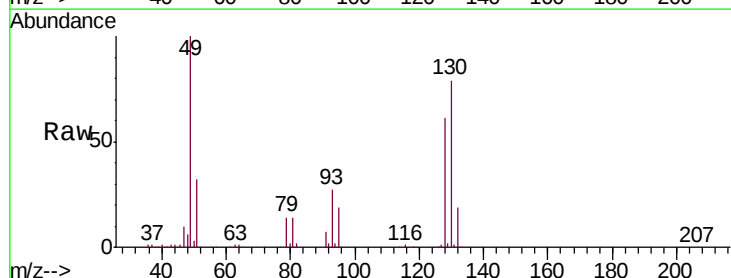
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.05 (60.75 to 61.75): VV0  
 Ion 68.15 (67.85 to 68.85): VV0



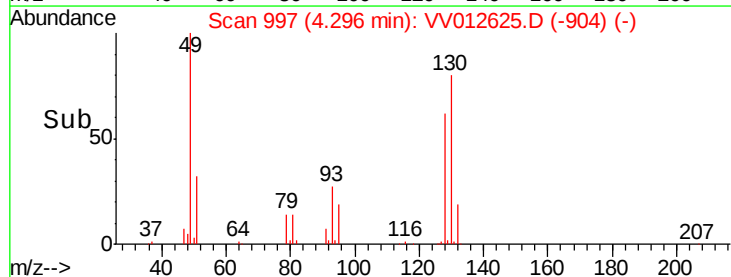
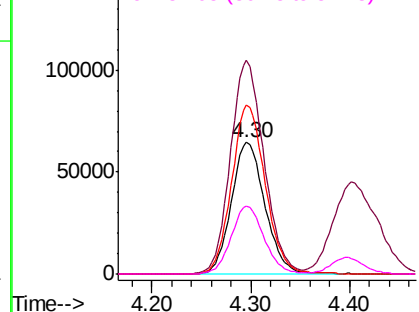
#23

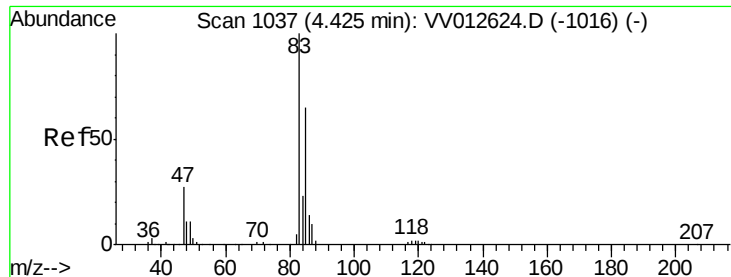
Bromochloromethane  
 Concen: 11.872 ug/L  
 RT: 4.30 min Scan# 997  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Tgt Ion: 128 Resp: 153472  
 Ion Ratio Lower Upper  
 128 100  
 49 162.7 115.2 214.0  
 130 128.3 92.9 172.5  
 51 52.0 40.8 61.2



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

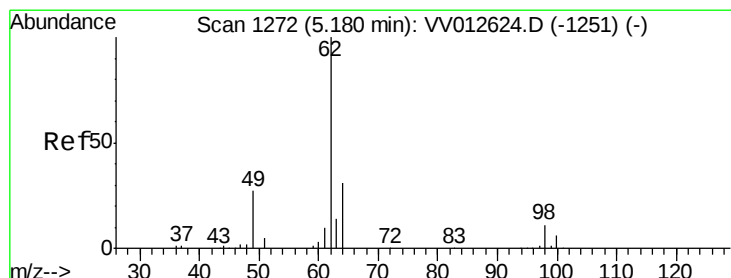
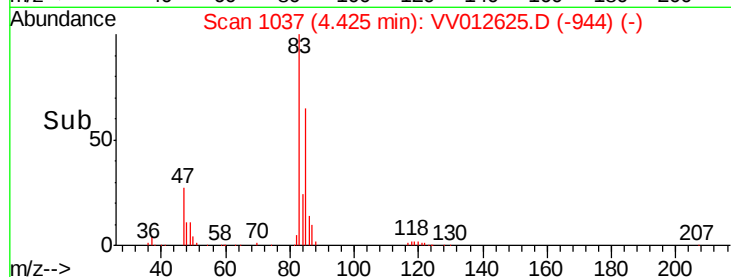
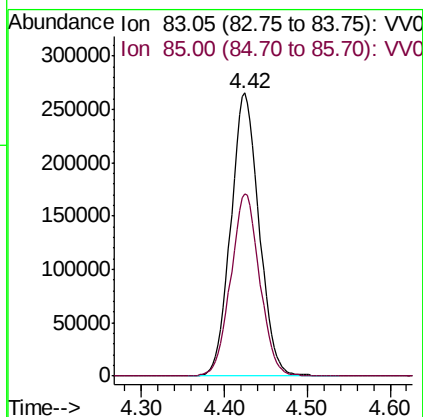
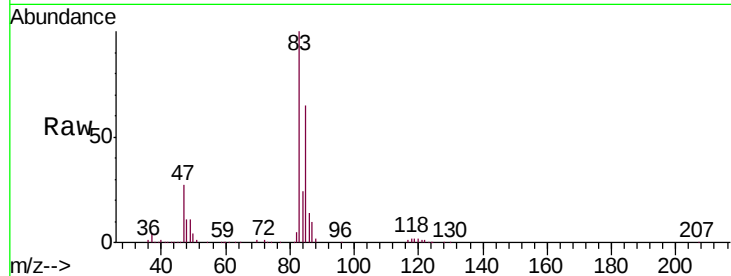




#25  
Chloroform  
Concen: 11.500 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

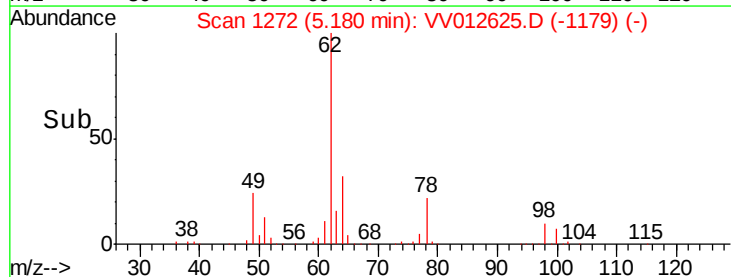
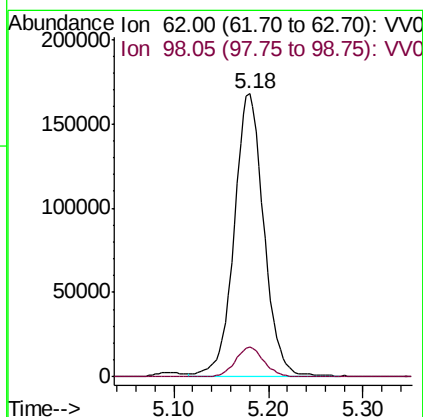
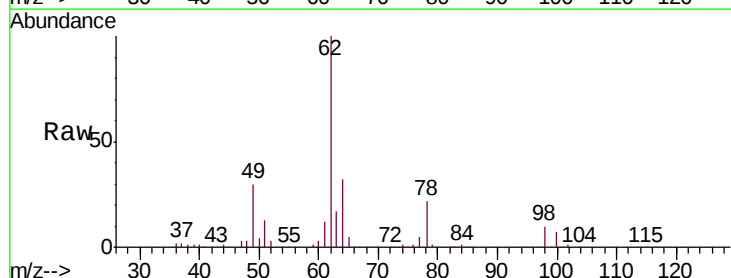
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01035

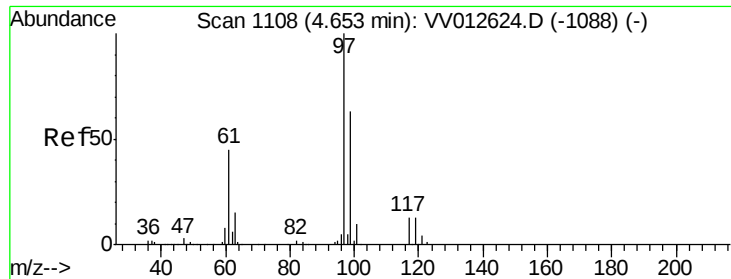
Tgt Ion: 83 Resp: 632315  
Ion Ratio Lower Upper  
83 100  
85 64.6 45.3 84.1



#27  
1,2-Dichloroethane  
Concen: 11.850 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

Tgt Ion: 62 Resp: 362873  
Ion Ratio Lower Upper  
62 100  
98 10.4 8.4 12.6

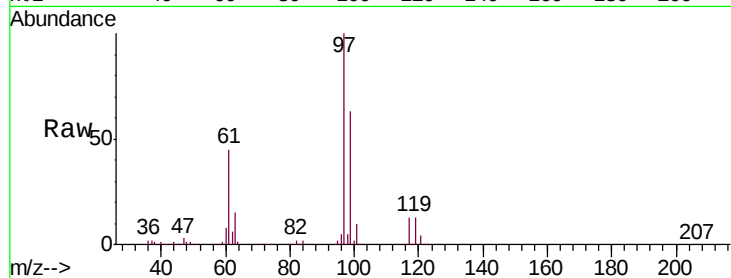




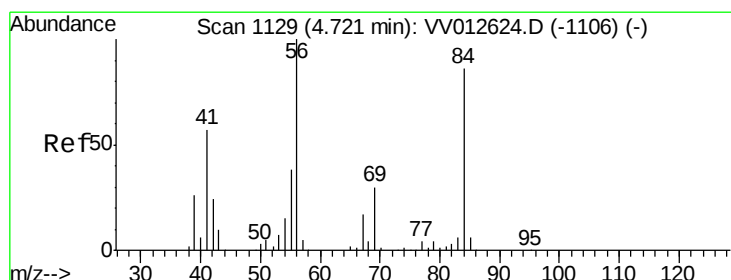
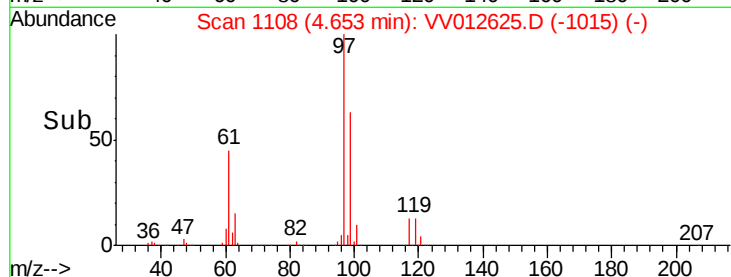
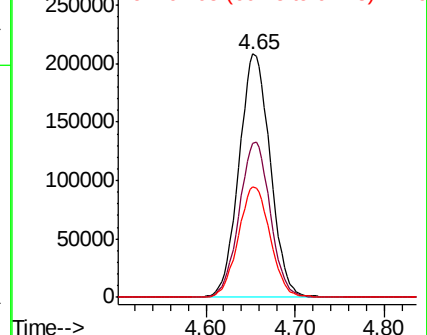
#29  
 1,1,1-Trichloroethane  
 Concen: 11.881 ug/L  
 RT: 4.65 min Scan# 1108  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD01035

Tgt Ion: 97 Resp: 507655  
 Ion Ratio Lower Upper  
 97 100  
 99 63.4 51.6 77.4  
 61 46.3 37.5 56.3

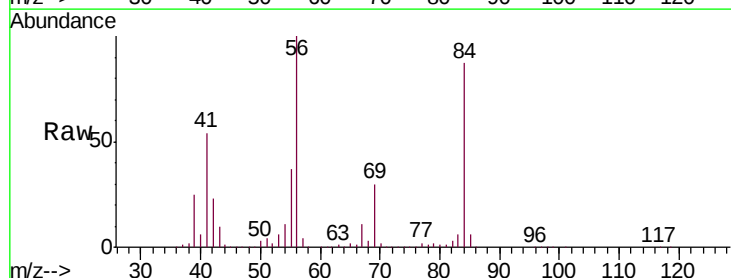


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

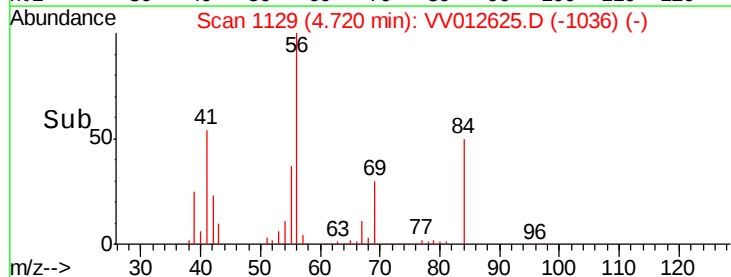
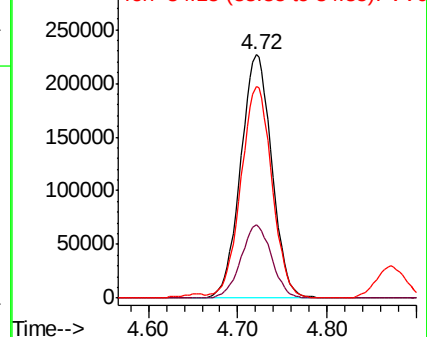


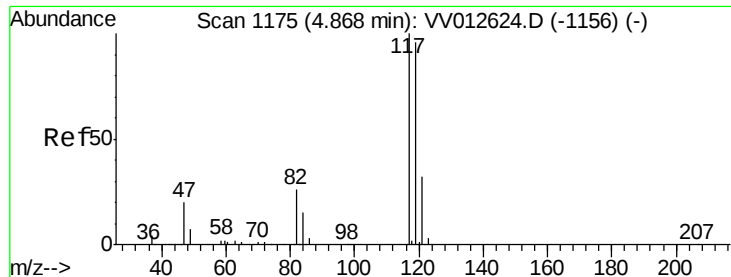
#30  
 Cyclohexane  
 Concen: 12.744 ug/L  
 RT: 4.72 min Scan# 1129  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Tgt Ion: 56 Resp: 549317  
 Ion Ratio Lower Upper  
 56 100  
 69 29.7 23.8 35.8  
 84 87.2 70.1 105.1



Abundance Ion 56.10 (55.80 to 56.80): VV0  
 Ion 69.15 (68.85 to 69.85): VV0  
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 11.931 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

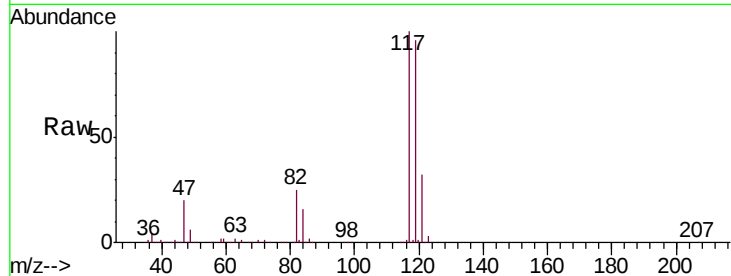
VSTD01035

Tgt Ion:117 Resp: 451372

Ion Ratio Lower Upper

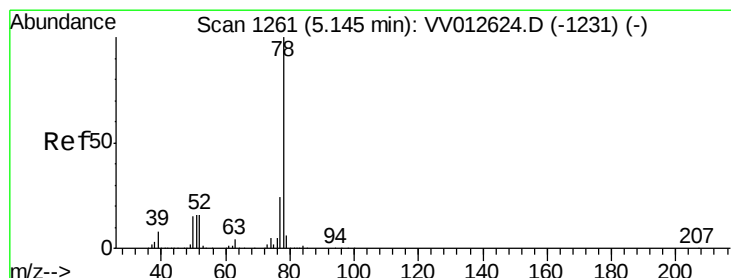
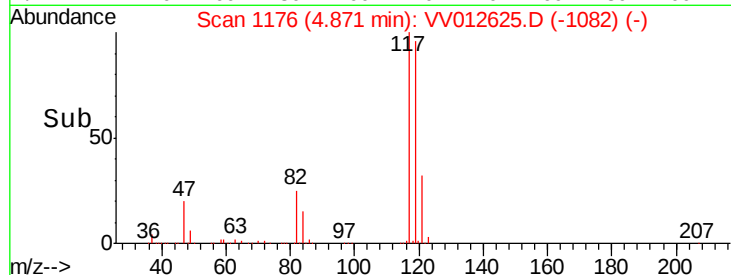
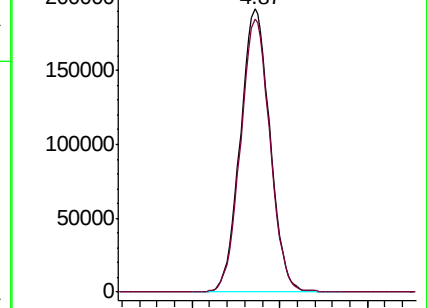
117 100

119 96.0 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 11.876 ug/L

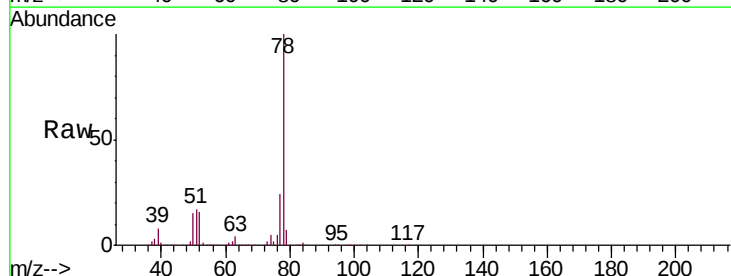
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

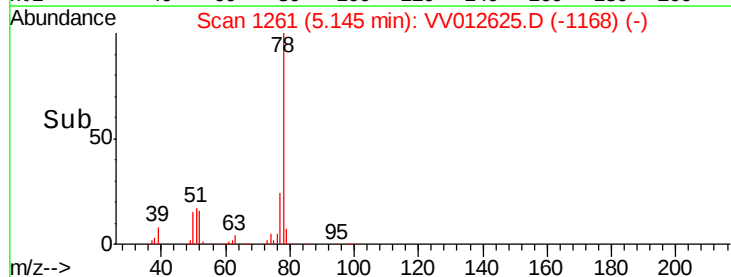
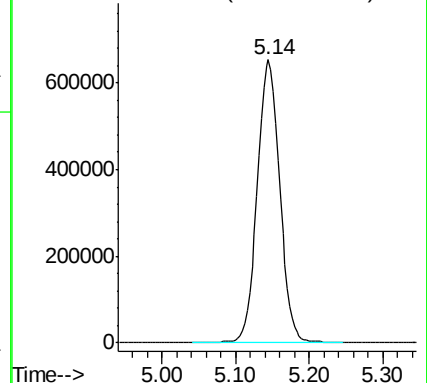
Lab File: VV012625.D

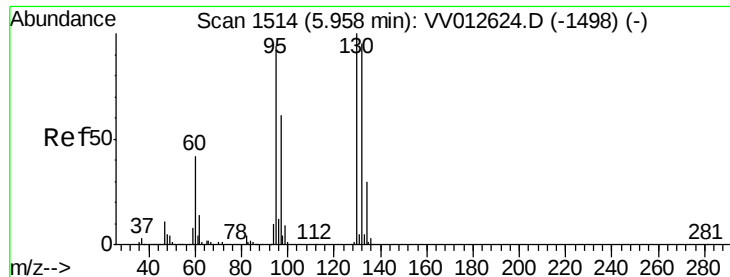
Acq: 09 Sep 2019 15:41

Tgt Ion: 78 Resp: 1395358



Abundance Ion 78.10 (77.80 to 78.80): VV0

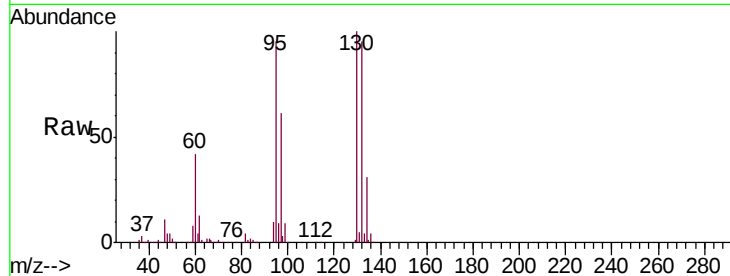




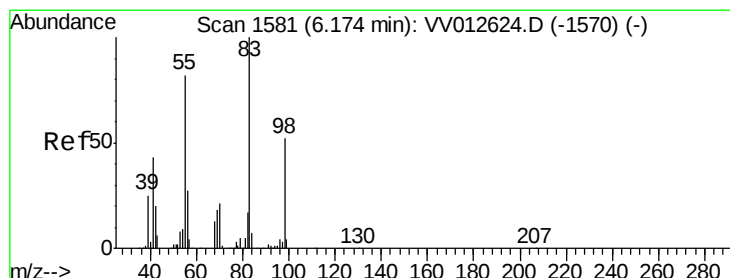
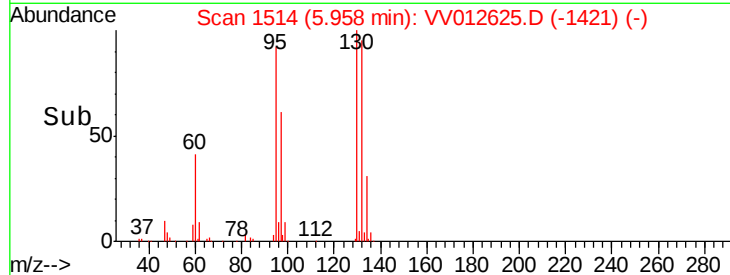
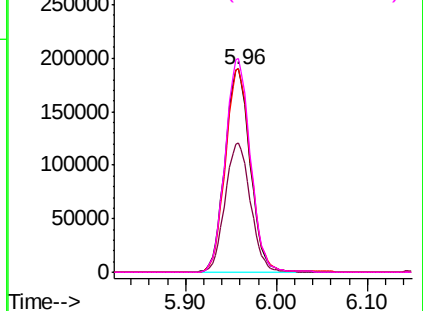
#34  
 Trichloroethene  
 Concen: 11.901 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 367751 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.0  | 45.4  | 84.2   |
| 132      | 100.4 | 70.2  | 130.4  |
| 130      | 105.2 | 74.2  | 137.8  |

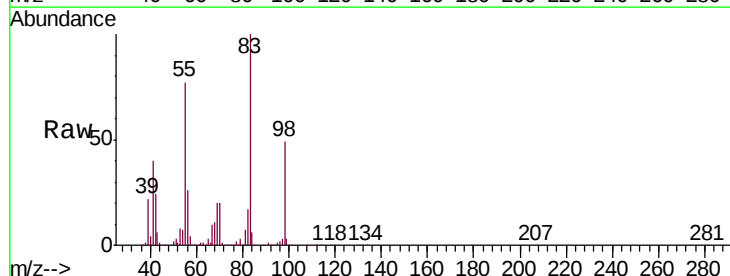


Abundance Ion 95.00 (94.70 to 95.70): VV012625.D (-1498) (-)  
 Ion 96.95 (96.65 to 97.65): VV012625.D (-1498) (-)  
 Ion 131.95 (131.65 to 132.65): VV012625.D (-1498) (-)  
 Ion 129.95 (129.65 to 130.65): VV012625.D (-1498) (-)

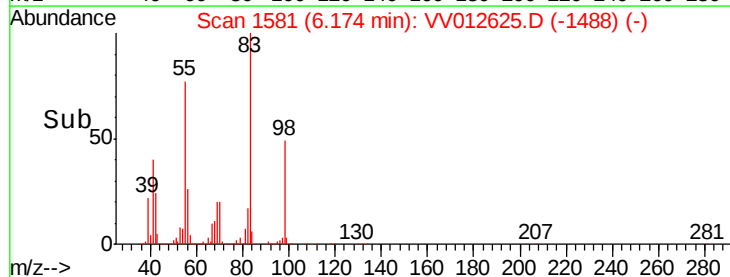
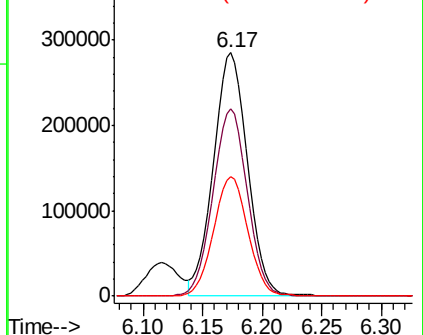


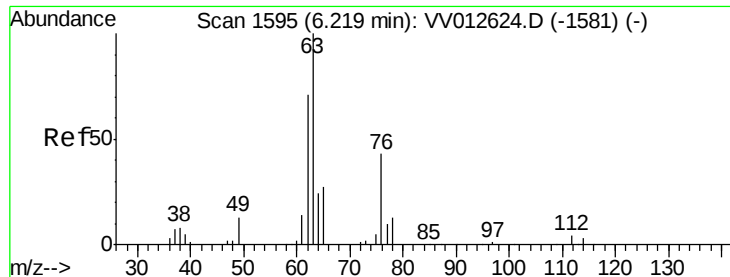
#35  
 Methylcyclohexane  
 Concen: 12.610 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 565654 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 77.9  | 63.0  | 94.4   |
| 98       | 49.7  | 39.8  | 59.8   |



Abundance Ion 83.15 (82.85 to 83.85): VV012625.D (-1498) (-)  
 Ion 55.10 (54.80 to 55.80): VV012625.D (-1498) (-)  
 Ion 98.15 (97.85 to 98.85): VV012625.D (-1498) (-)

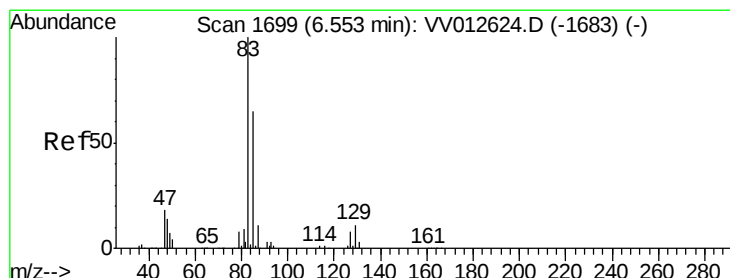
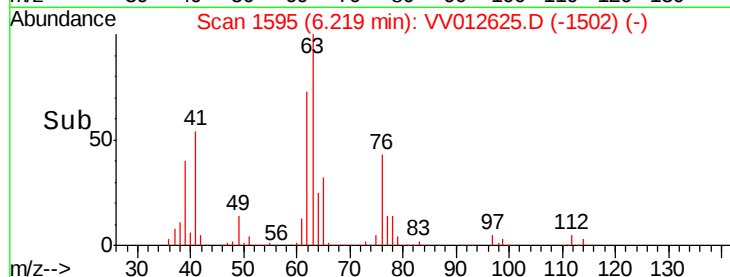
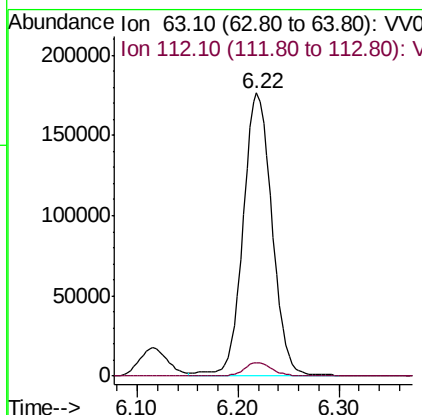
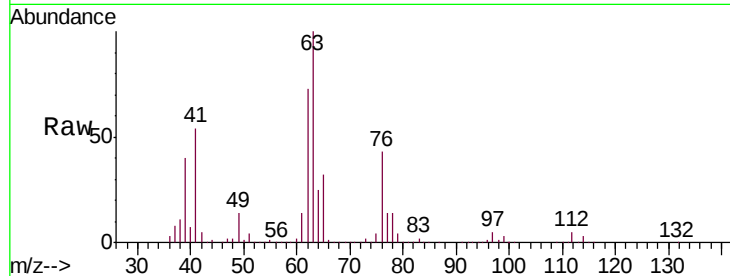




#37  
 1,2-Dichloropropane  
 Concen: 11.938 ug/L  
 RT: 6.22 min Scan# 1595  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

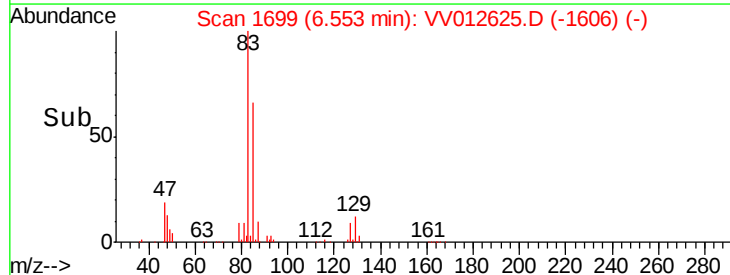
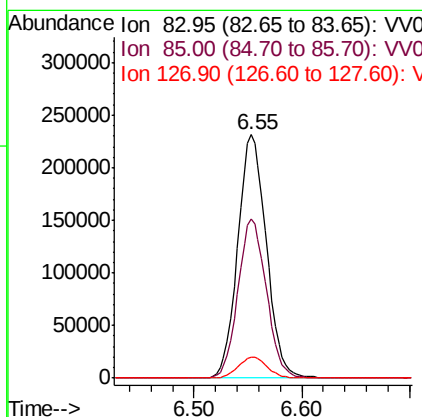
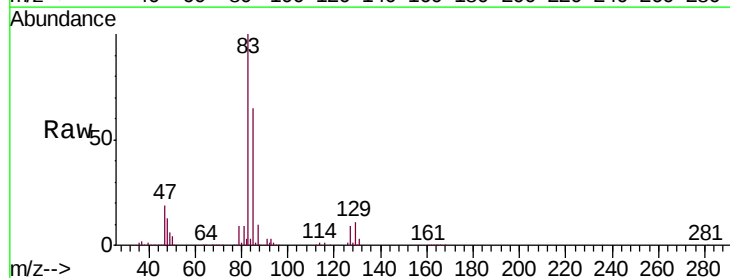
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

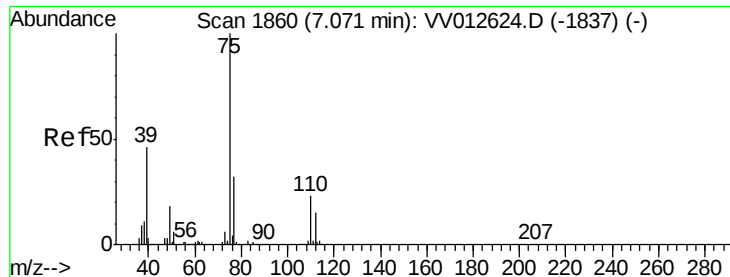
Tgt Ion: 63 Resp: 347058  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.8 5.6



#38  
 Bromodichloromethane  
 Concen: 11.798 ug/L  
 RT: 6.55 min Scan# 1699  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Tgt Ion: 83 Resp: 427009  
 Ion Ratio Lower Upper  
 83 100  
 85 65.4 45.3 84.1  
 127 8.6 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 12.573 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

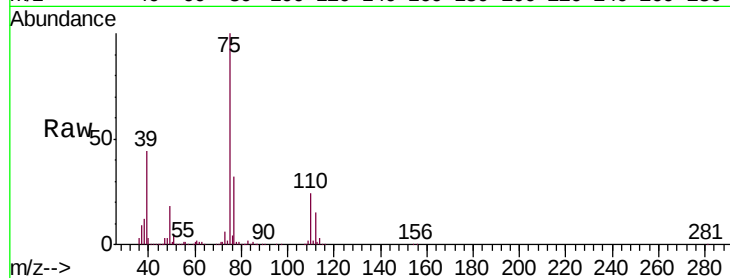
VSTD01035

Tgt Ion: 75 Resp: 471522

Ion Ratio Lower Upper

75 100

77 32.0 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.07

250000

200000

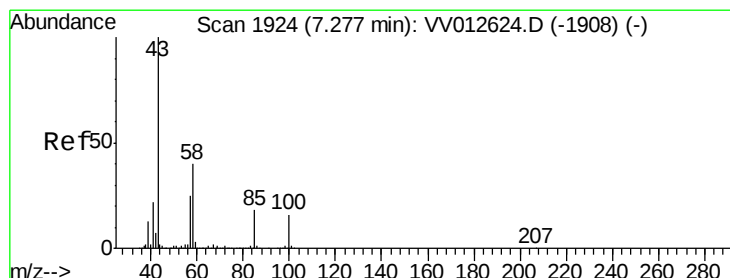
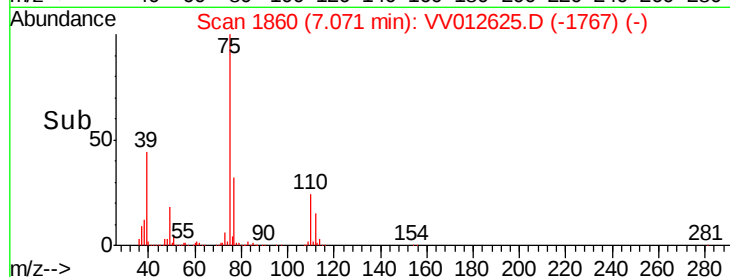
150000

100000

50000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 127.036 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

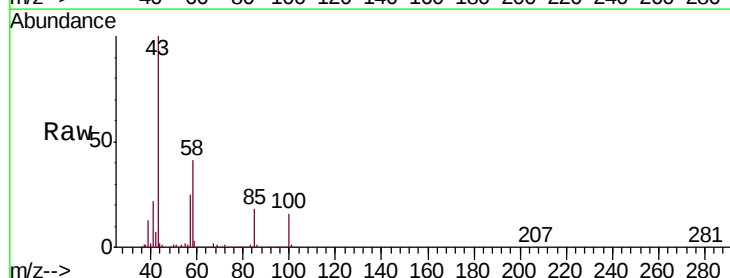
Tgt Ion: 43 Resp: 2059650

Ion Ratio Lower Upper

43 100

58 40.9 31.4 47.0

100 15.9 12.6 18.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0

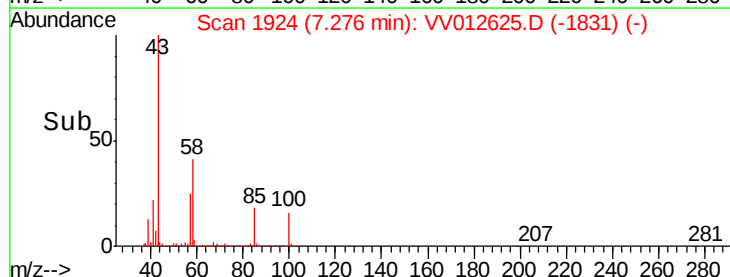
1500000

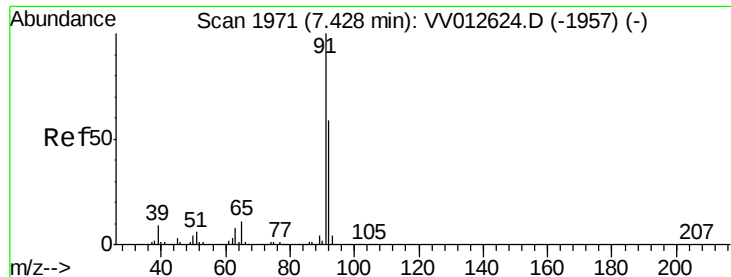
1000000

500000

0

Time-->





#42

Toluene

Concen: 12.018 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

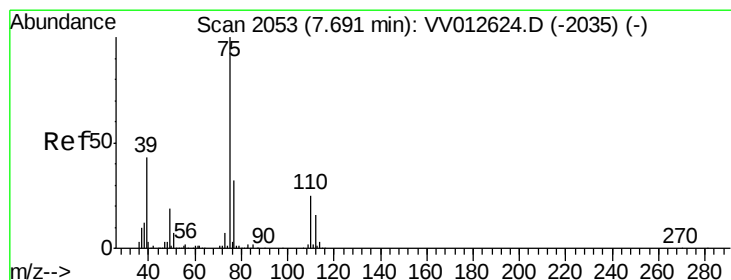
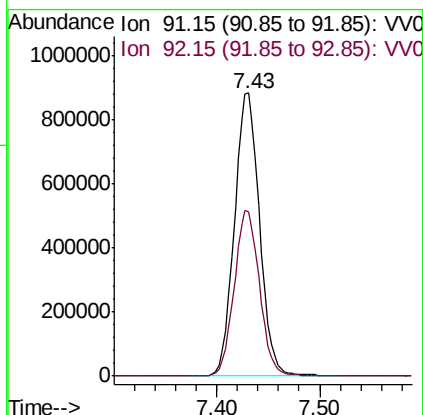
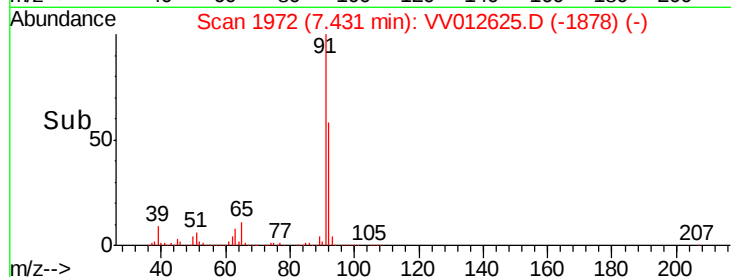
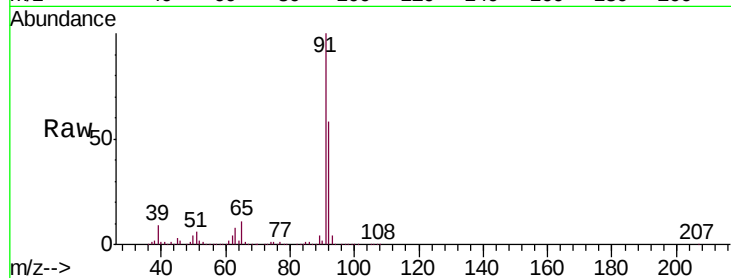
VSTD01035

Tgt Ion: 91 Resp: 1505051

Ion Ratio Lower Upper

91 100

92 57.9 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 12.663 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012625.D

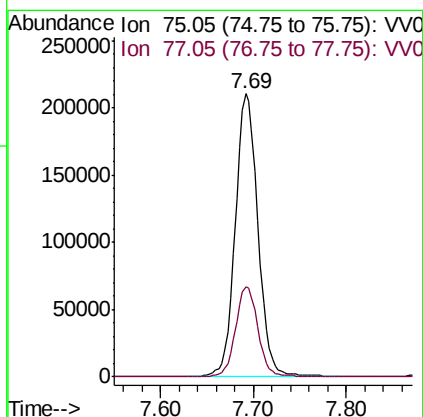
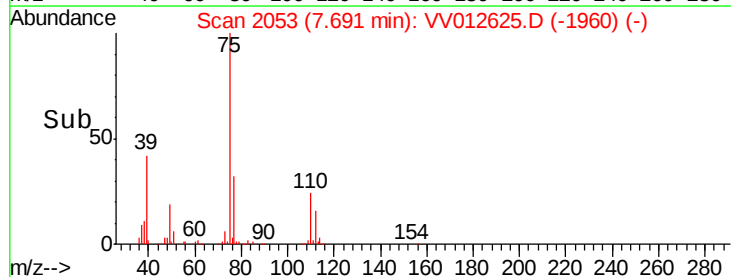
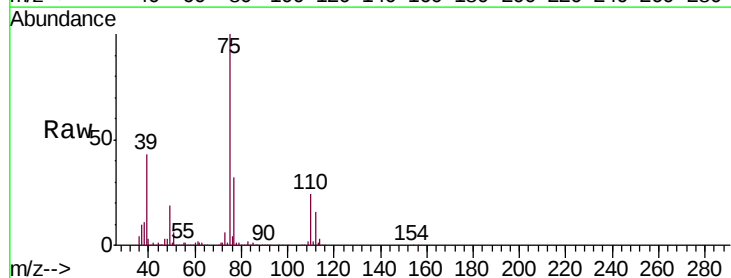
Acq: 09 Sep 2019 15:41

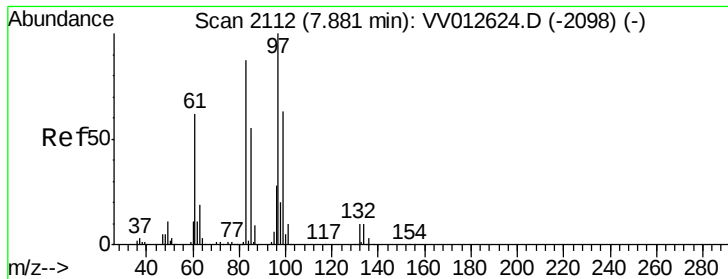
Tgt Ion: 75 Resp: 357365

Ion Ratio Lower Upper

75 100

77 31.8 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 11.892 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01035

Tgt Ion: 97 Resp: 237513

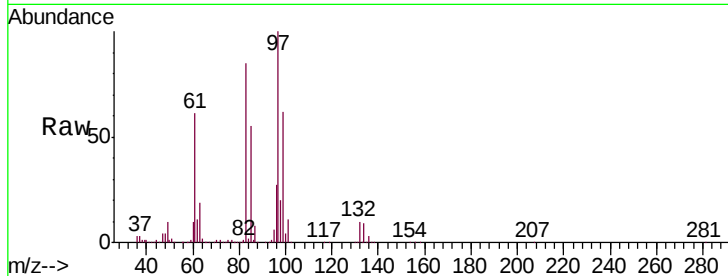
Ion Ratio Lower Upper

97 100

99 61.9 44.2 82.0

83 84.9 60.8 112.8

85 55.1 38.6 71.6



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

200000

150000

100000

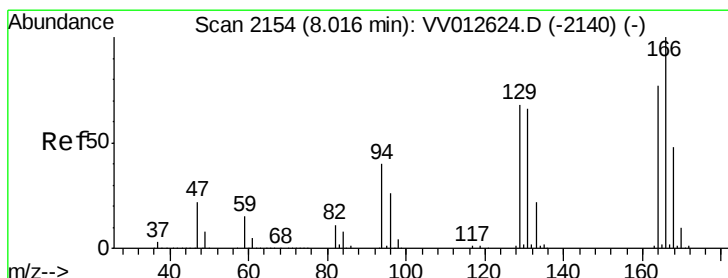
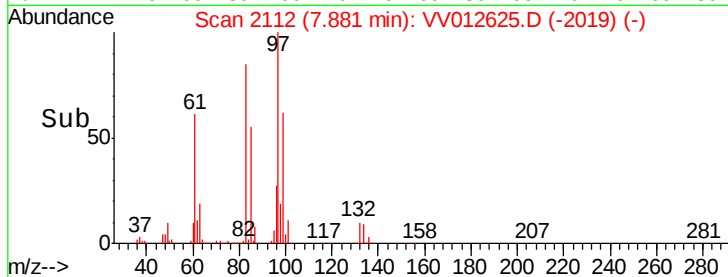
50000

0

7.88

7.85 7.90 7.95

Time-->



#47

Tetrachloroethene

Concen: 11.914 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Tgt Ion: 164 Resp: 293791

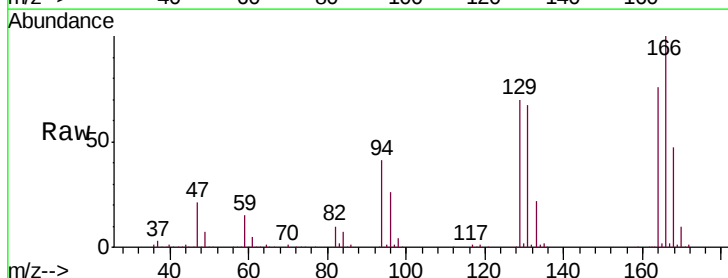
Ion Ratio Lower Upper

164 100

129 92.2 61.9 114.9

131 87.7 59.7 110.9

166 131.2 90.4 167.8



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

300000

200000

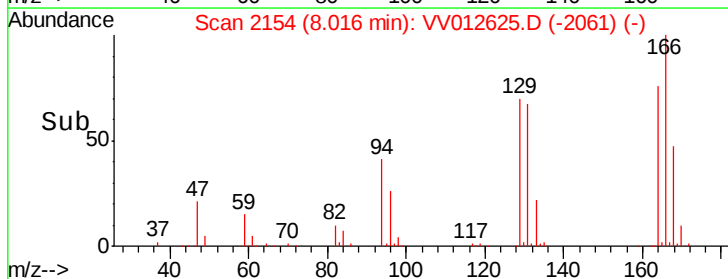
100000

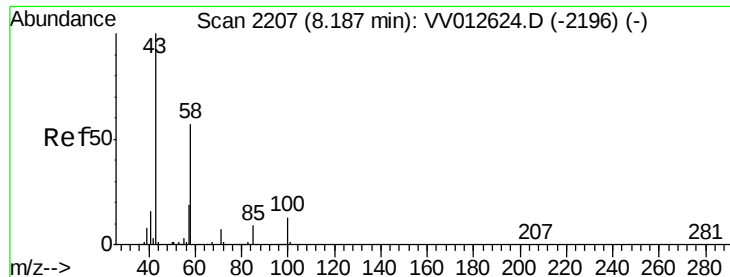
0

8.02

7.95 8.00 8.05 8.10

Time-->



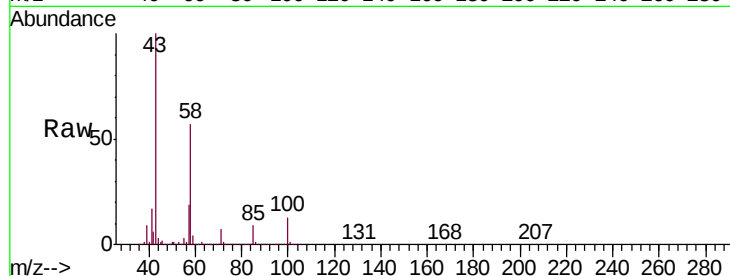


#48  
2-Hexanone  
Concen: 123.112 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01035

Tgt Ion: 43 Resp: 1485411

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 55.3  | 44.8  | 67.2  |
| 57  | 19.1  | 14.9  | 22.3  |
| 100 | 12.6  | 9.8   | 14.8  |

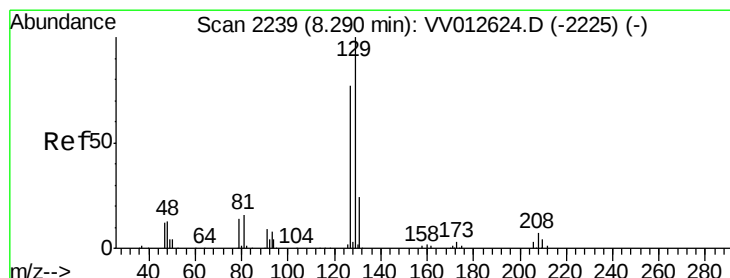
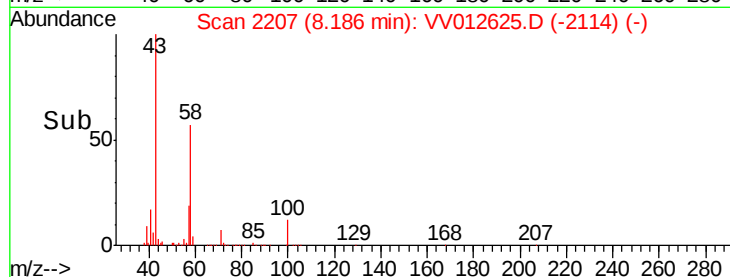
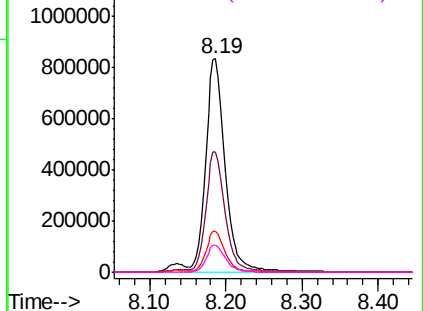


Abundance Ion 43.05 (42.75 to 43.75): VV012625.D (-2114) (-)

Ion 58.05 (57.75 to 58.75): VV012625.D (-2114) (-)

Ion 57.20 (56.90 to 57.90): VV012625.D (-2114) (-)

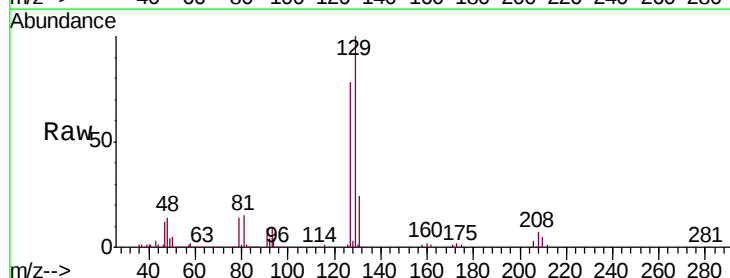
Ion 100.15 (99.85 to 100.85): VV012625.D (-2114) (-)



#49  
Dibromochloromethane  
Concen: 12.204 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

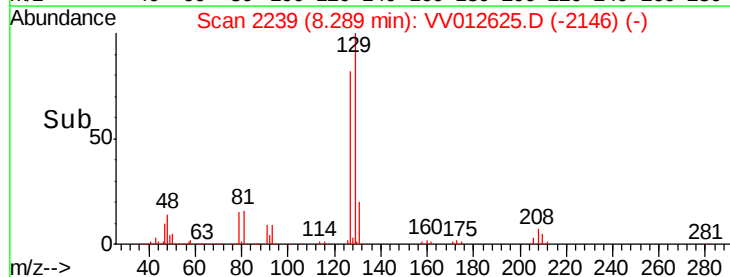
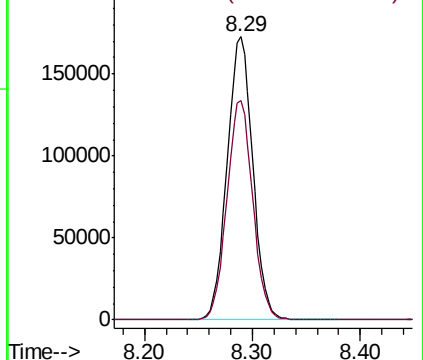
Tgt Ion: 129 Resp: 286892

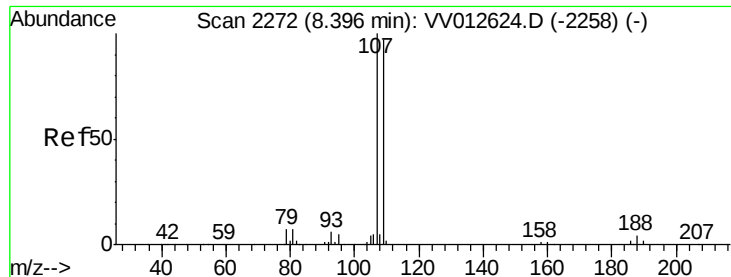
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.7  | 53.5  | 99.5  |



Abundance Ion 128.95 (128.65 to 129.65): VV012625.D (-2146) (-)

Ion 126.90 (126.60 to 127.60): VV012625.D (-2146) (-)

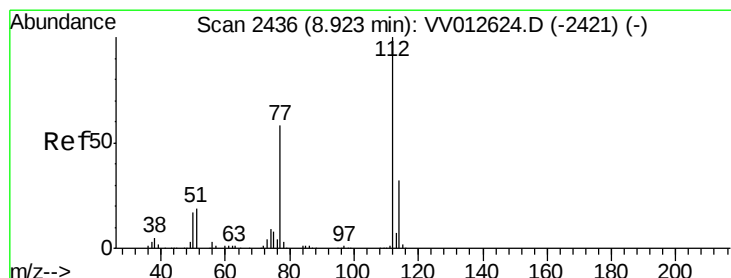
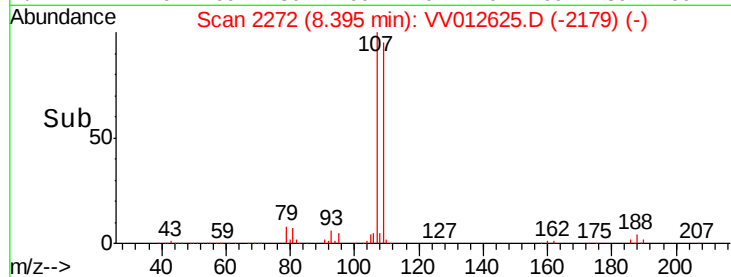
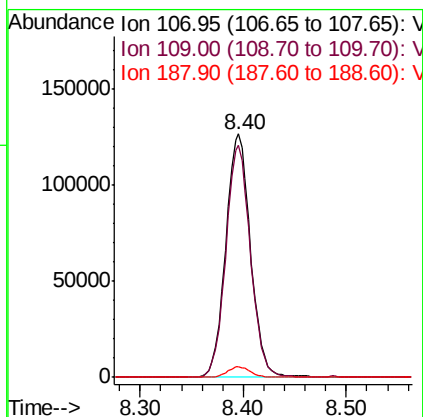
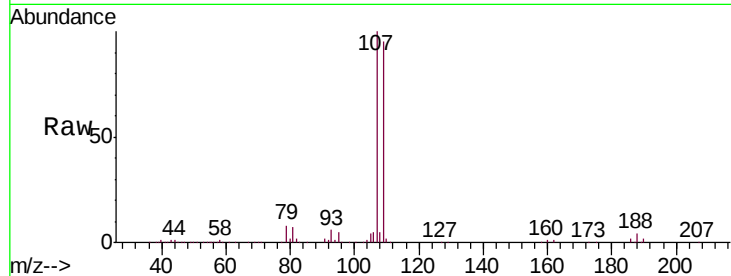




#50  
1,2-Dibromoethane  
Concen: 12.026 ug/L  
RT: 8.40 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

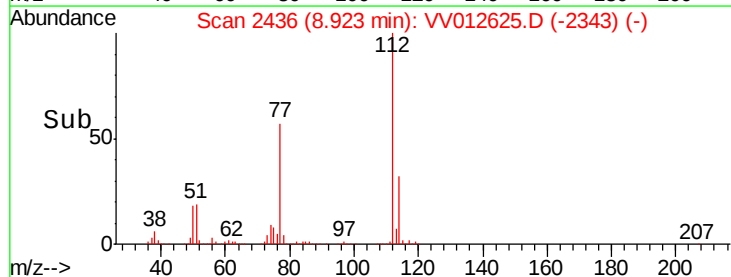
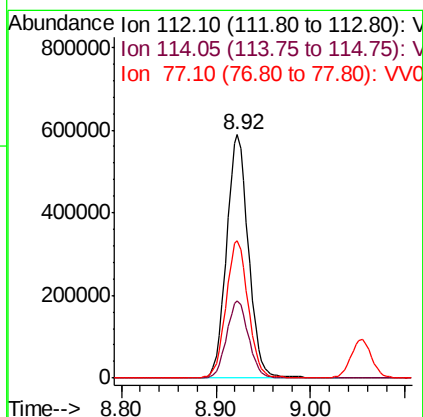
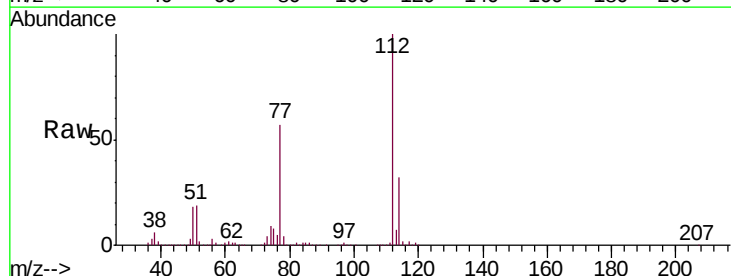
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD01035

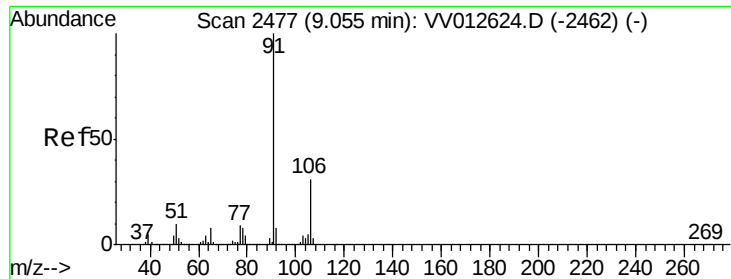
Tgt Ion:107 Resp: 211713  
Ion Ratio Lower Upper  
107 100  
109 95.1 67.7 125.7  
188 4.3 3.3 4.9



#51  
Chlorobenzene  
Concen: 12.005 ug/L  
RT: 8.92 min Scan# 2436  
Delta R.T. -0.00 min  
Lab File: VV012625.D  
Acq: 09 Sep 2019 15:41

Tgt Ion:112 Resp: 945814  
Ion Ratio Lower Upper  
112 100  
114 31.8 22.5 41.9  
77 56.6 46.2 69.2





#52

Ethylbenzene

Concen: 12.513 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

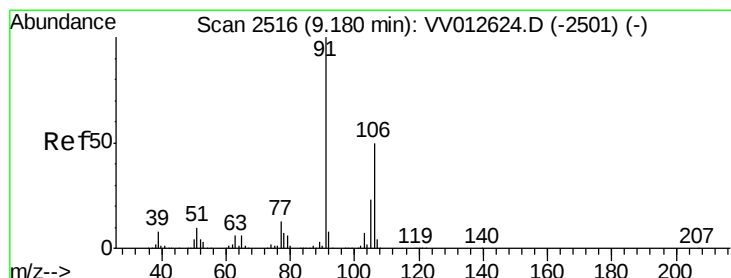
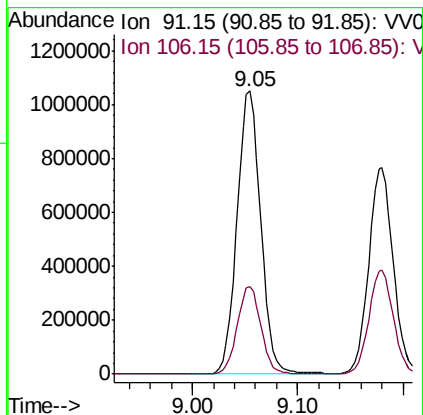
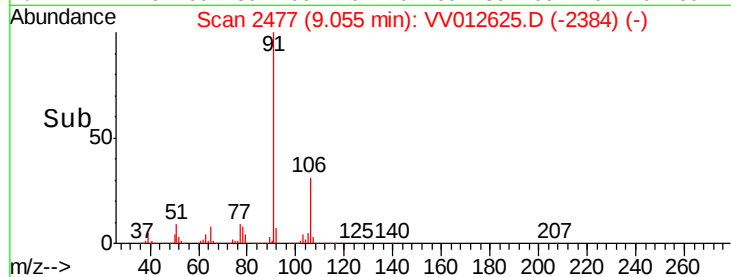
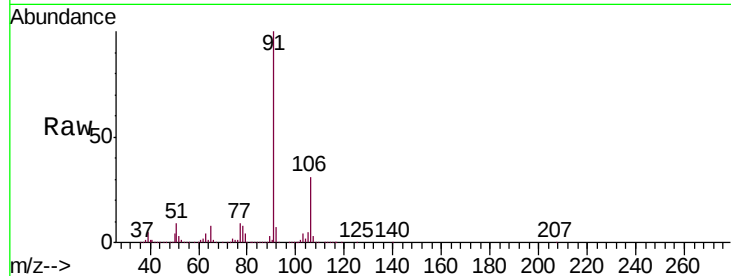
VSTD01035

Tgt Ion: 91 Resp: 1637890

Ion Ratio Lower Upper

91 100

106 31.1 21.7 40.3



#53

m,p-xylene

Concen: 12.472 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012625.D

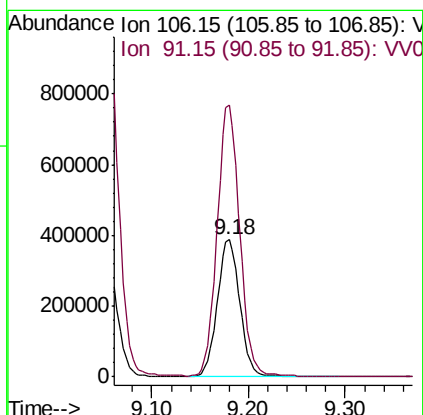
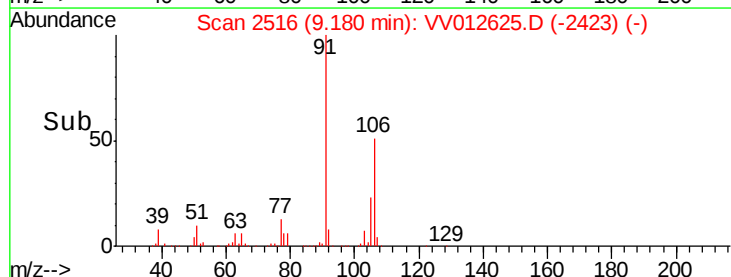
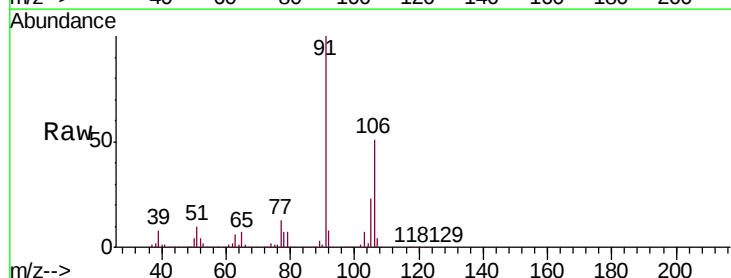
Acq: 09 Sep 2019 15:41

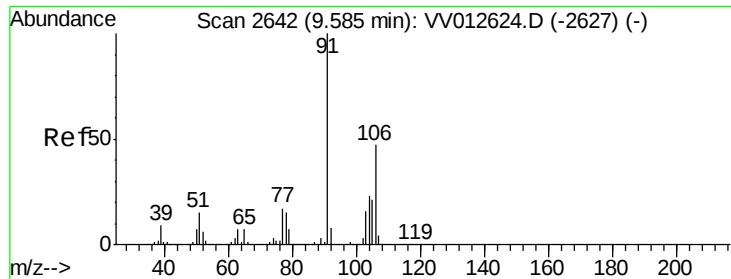
Tgt Ion: 106 Resp: 628209

Ion Ratio Lower Upper

106 100

91 197.9 140.0 260.0





#54

o-xylene

Concen: 12.699 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

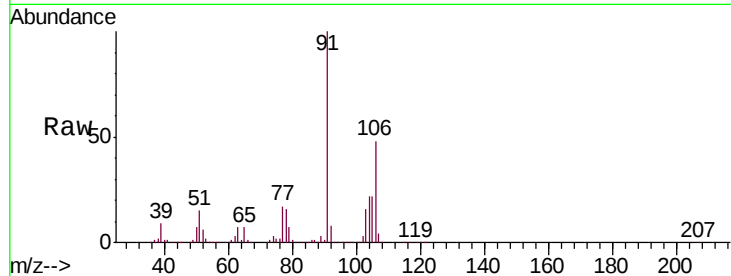
VSTD01035

Tgt Ion:106 Resp: 610656

Ion Ratio Lower Upper

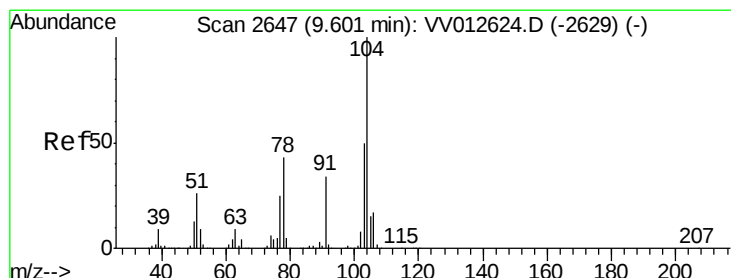
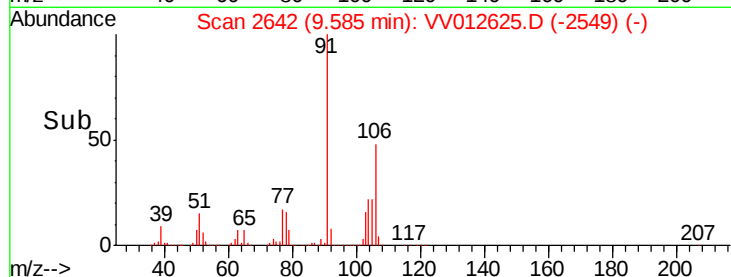
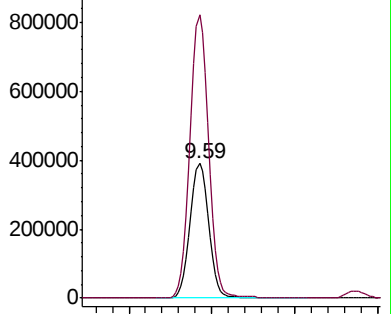
106 100

91 210.2 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 12.471 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012625.D

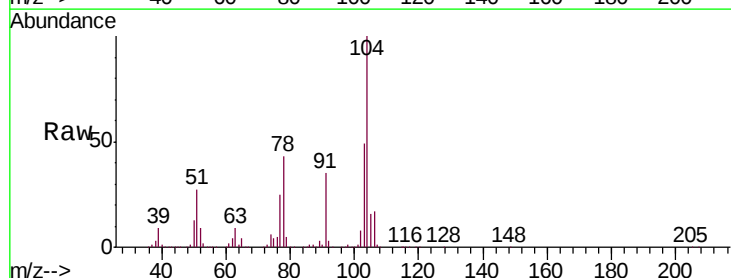
Acq: 09 Sep 2019 15:41

Tgt Ion:104 Resp: 1041668

Ion Ratio Lower Upper

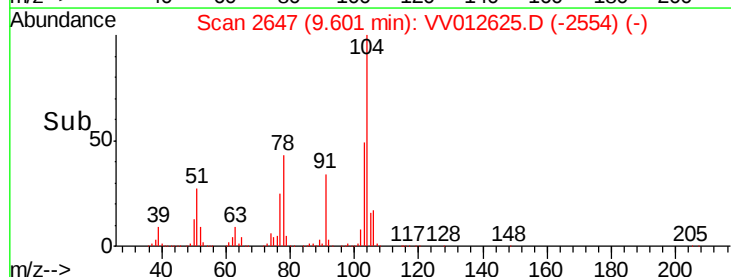
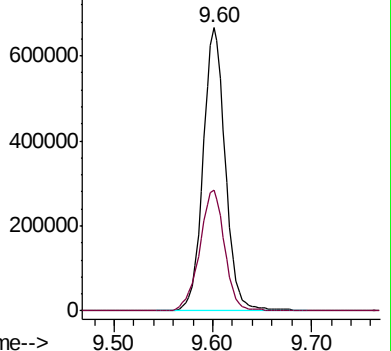
104 100

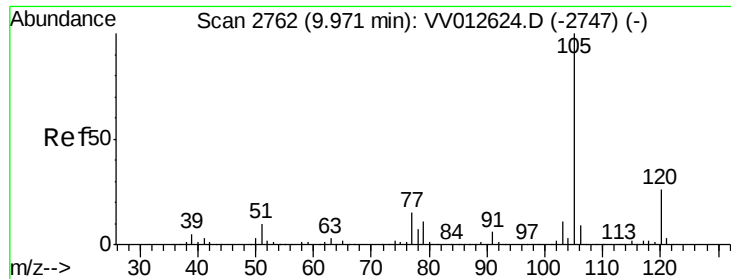
78 42.7 30.2 56.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 12.647 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampled :

VSTD01035

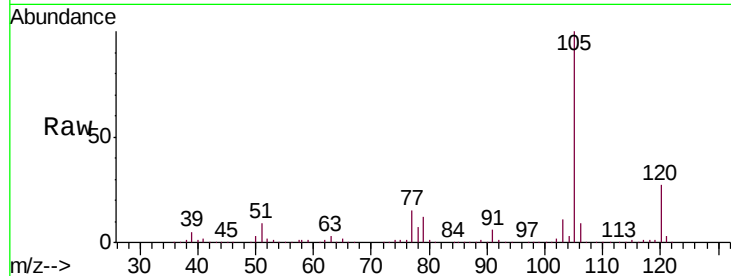
Tgt Ion:105 Resp: 1617733

Ion Ratio Lower Upper

105 100

120 26.5 21.1 31.7

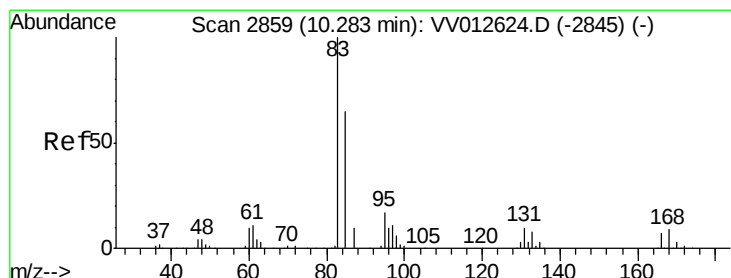
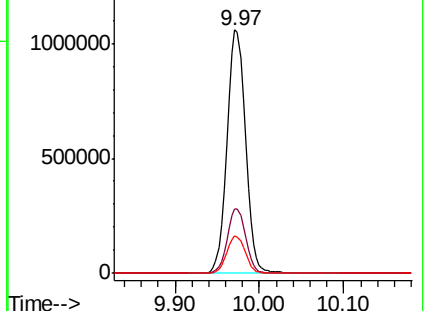
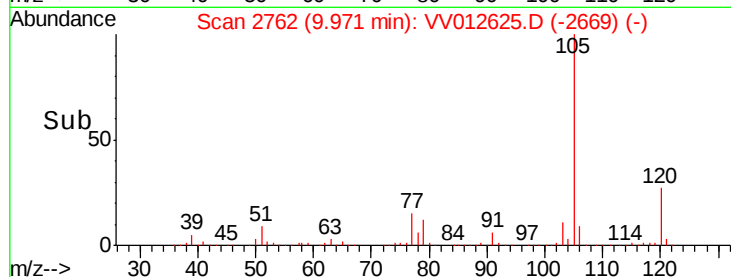
77 15.4 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 12.317 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

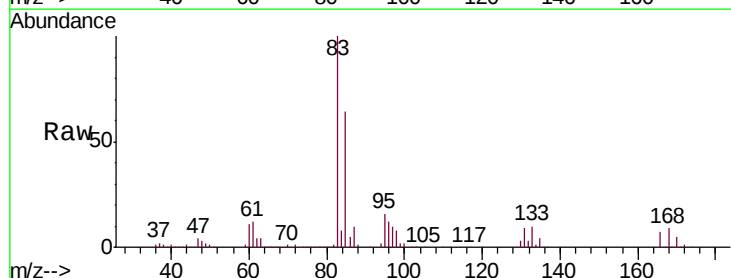
Tgt Ion: 83 Resp: 244929

Ion Ratio Lower Upper

83 100

85 63.9 45.4 84.2

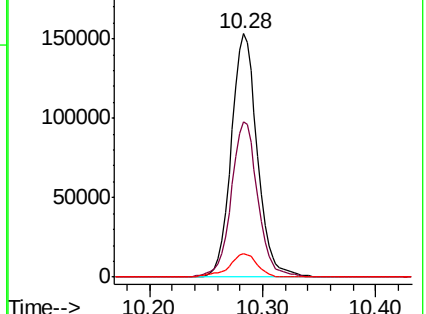
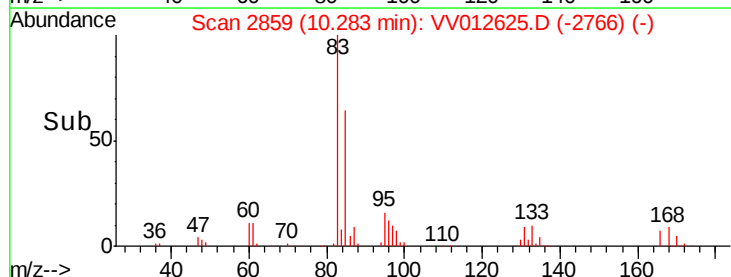
131 9.5 8.2 12.4

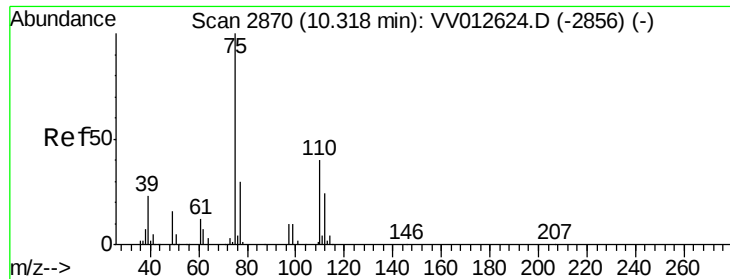


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 12.081 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

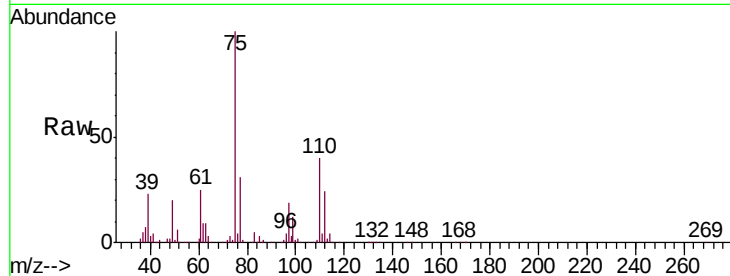
VSTD01035

Tgt Ion: 75 Resp: 202114

Ion Ratio Lower Upper

75 100

77 31.7 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VV012624.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012624.D (-2856) (-)

10.31

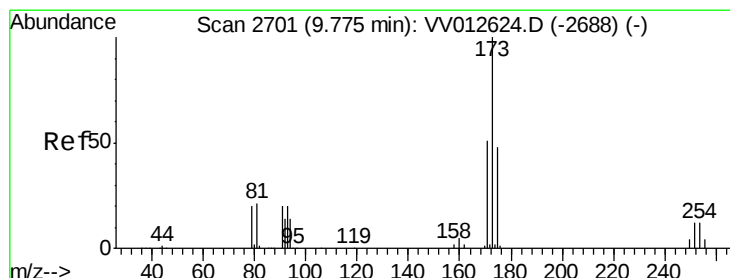
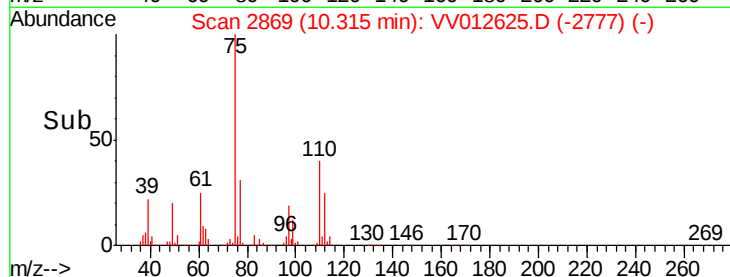
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 12.313 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

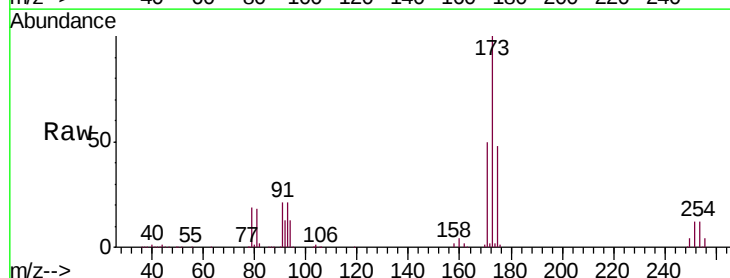
Tgt Ion: 173 Resp: 155253

Ion Ratio Lower Upper

173 100

175 48.0 39.8 59.6

254 11.7 9.1 13.7



Abundance Ion 172.90 (172.60 to 173.60): VV012624.D (-2688) (-)

Ion 174.90 (174.60 to 175.60): VV012624.D (-2688) (-)

Ion 253.75 (253.45 to 254.45): VV012624.D (-2688) (-)

9.77

120000

100000

80000

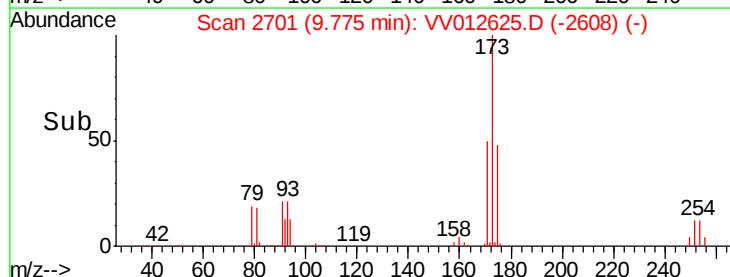
60000

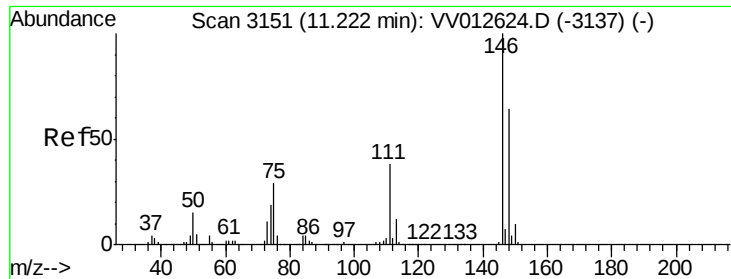
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 11.943 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01035

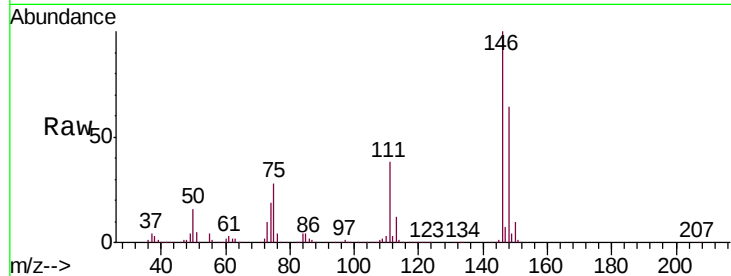
Tgt Ion:146 Resp: 755171

Ion Ratio Lower Upper

146 100

111 38.0 26.3 48.9

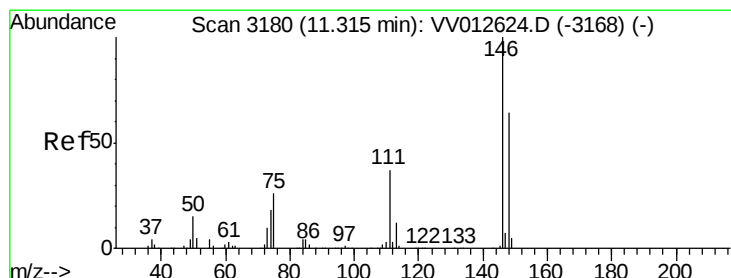
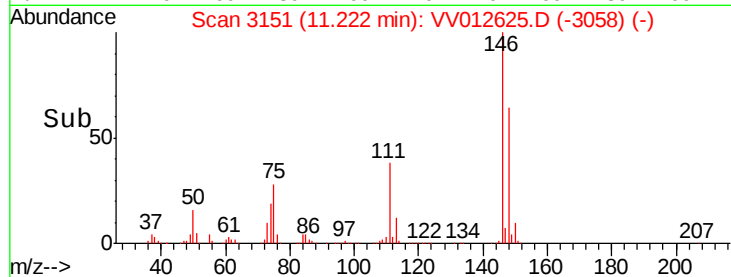
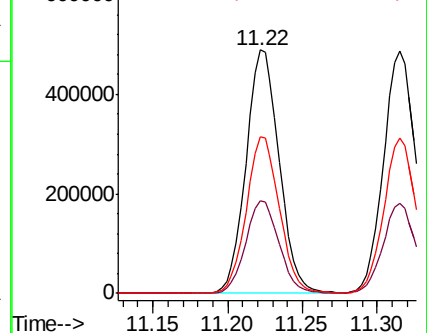
148 64.1 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 11.999 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

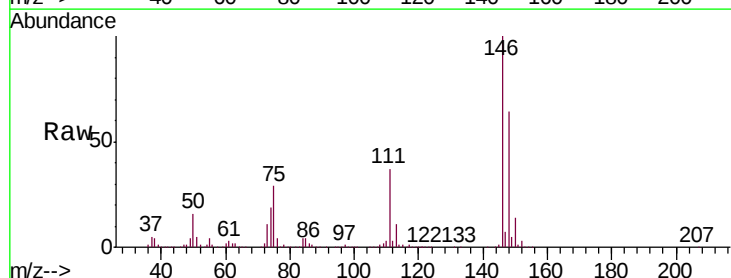
Tgt Ion:146 Resp: 746650

Ion Ratio Lower Upper

146 100

111 37.2 25.9 48.1

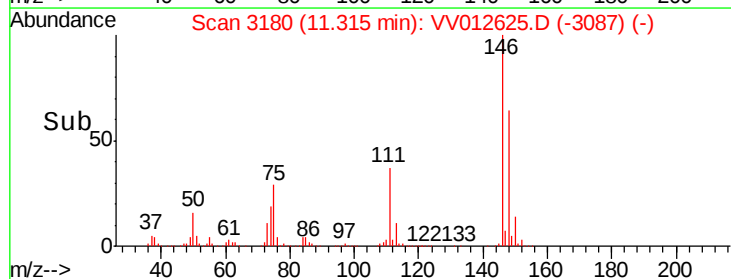
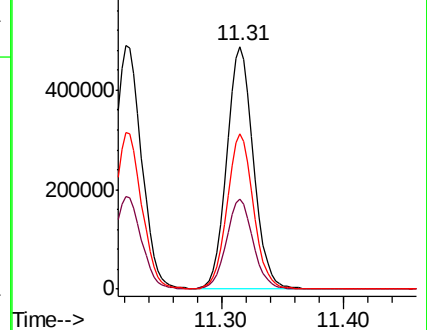
148 63.9 45.1 83.7

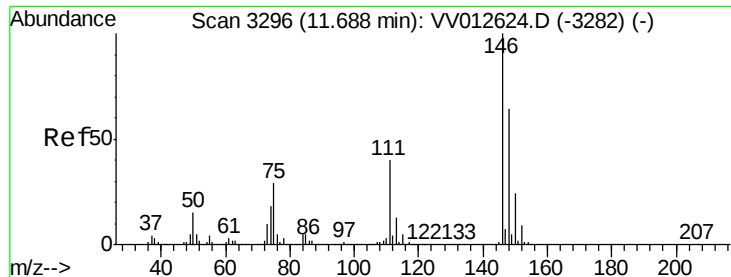


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

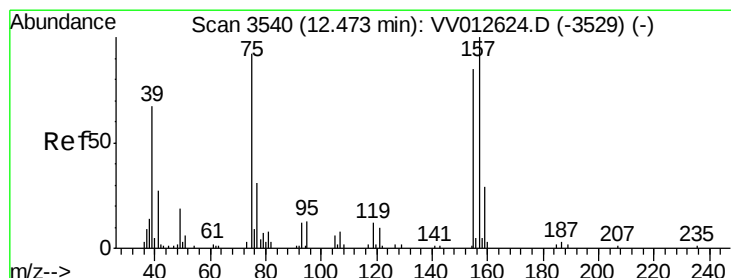
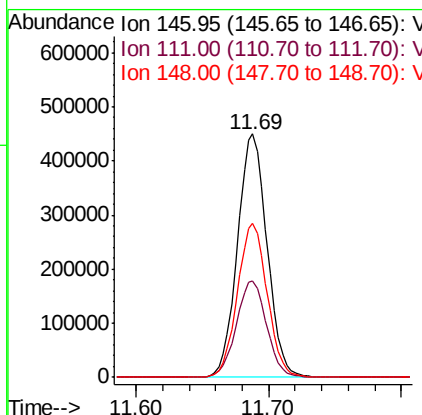
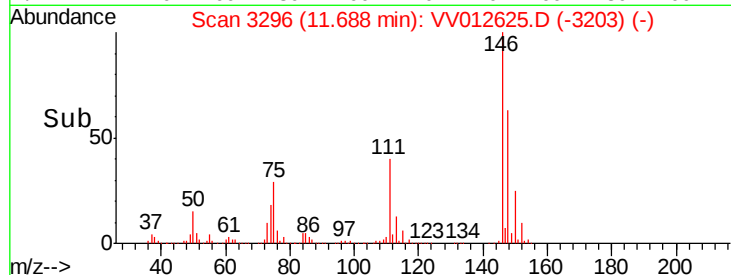
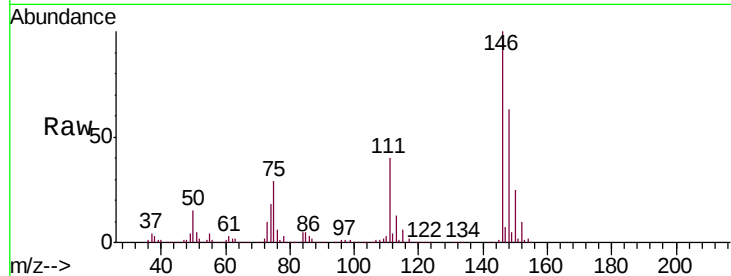




#65  
 1,2-Dichlorobenzene  
 Concen: 12.038 ug/L  
 RT: 11.69 min Scan# 3296  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

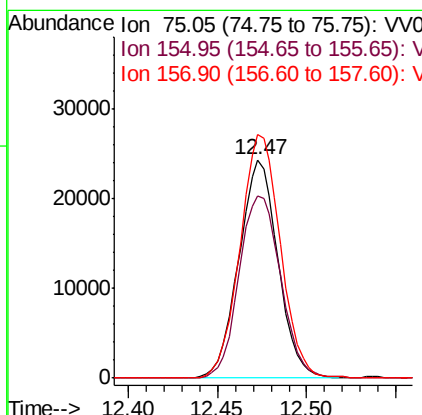
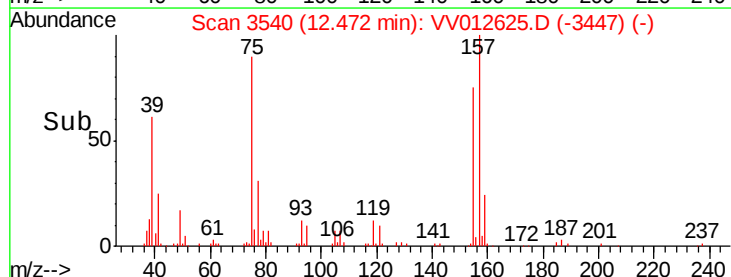
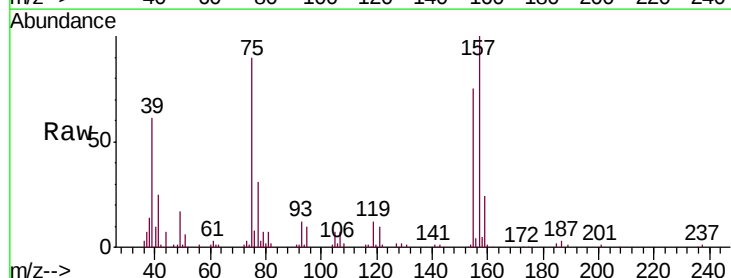
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

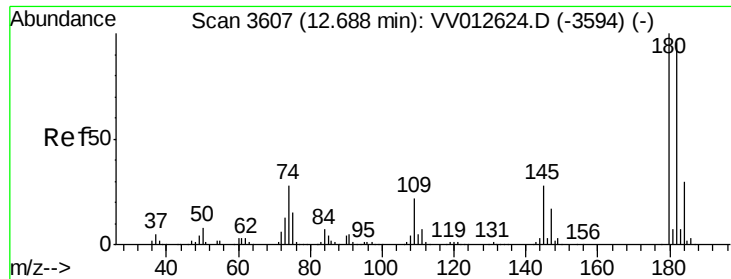
Tgt Ion: 146 Resp: 697240  
 Ion Ratio Lower Upper  
 146 100  
 111 39.5 32.2 48.4  
 148 63.4 51.0 76.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 12.801 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Tgt Ion: 75 Resp: 37344  
 Ion Ratio Lower Upper  
 75 100  
 155 83.7 74.3 111.5  
 157 111.6 87.4 131.0

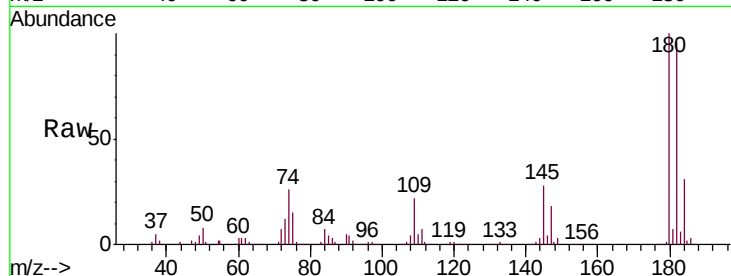




#67  
 1,3,5-Trichlorobenzene  
 Concen: 12.088 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. 0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD01035

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 76.2  | 114.4 |
| 184     | 30.7  | 24.3  | 36.5  |
| 145     | 27.8  | 22.0  | 33.0  |



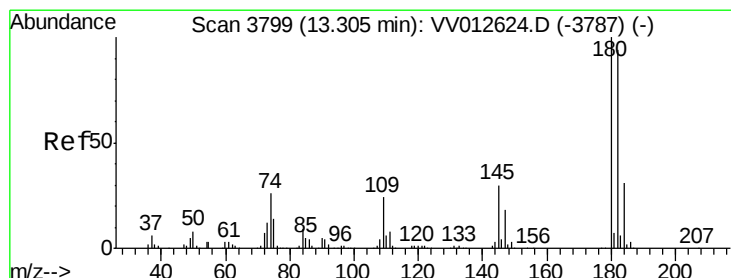
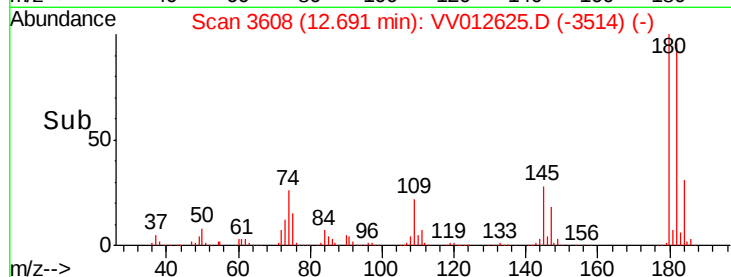
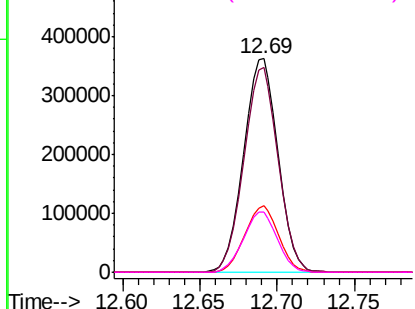
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

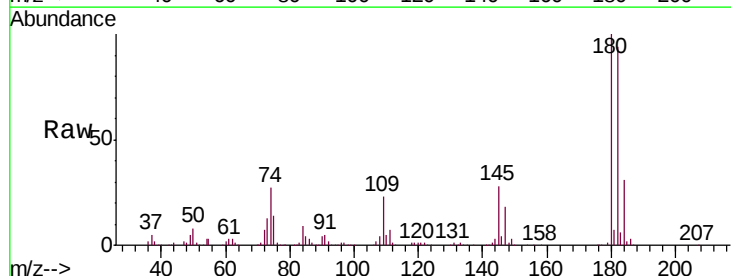
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 12.749 ug/L  
 RT: 13.31 min Scan# 3799  
 Delta R.T. -0.00 min  
 Lab File: VV012625.D  
 Acq: 09 Sep 2019 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 76.1  | 114.1 |
| 145     | 28.2  | 23.2  | 34.8  |

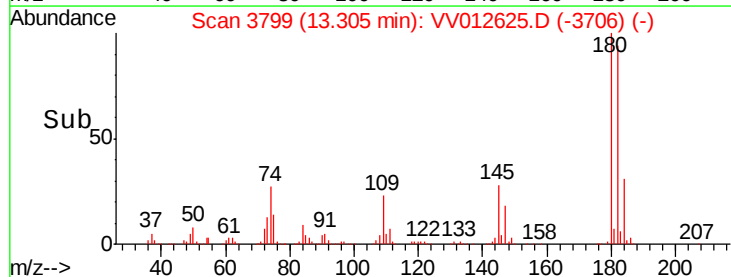
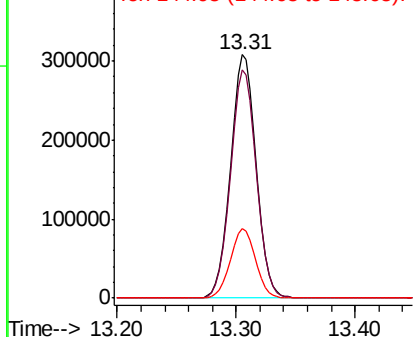


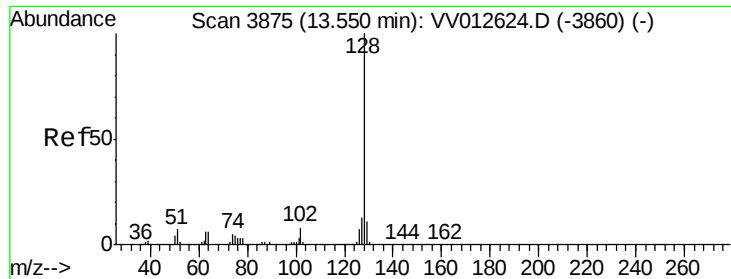
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 14.084 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

Instrument :

MSVOA\_V

ClientSampleId :

VSTD01035

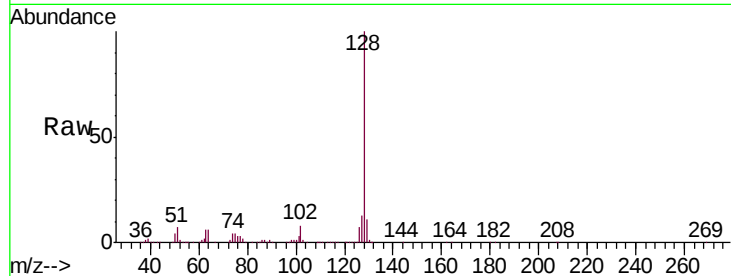
Tgt Ion:128 Resp: 752434

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

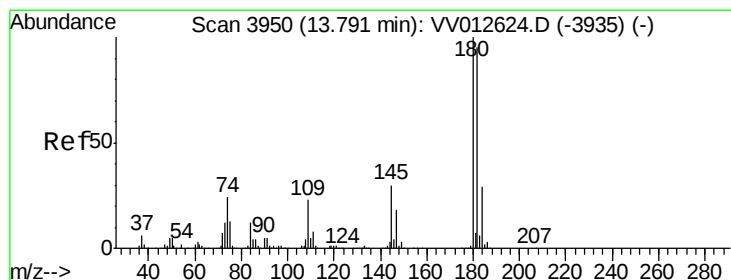
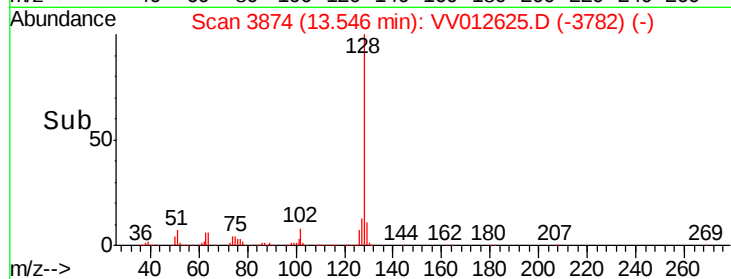
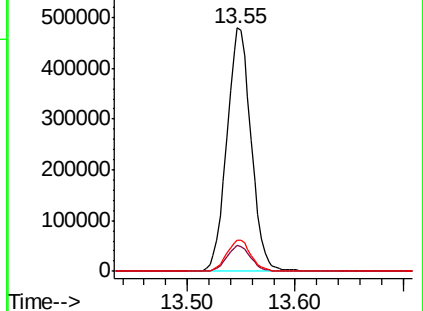
127 12.8 10.2 15.4



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: 12.721 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012625.D

Acq: 09 Sep 2019 15:41

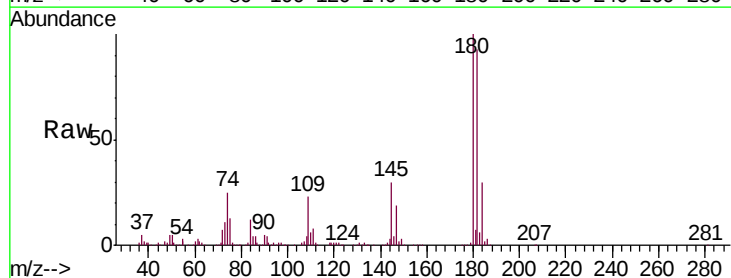
Tgt Ion:180 Resp: 446326

Ion Ratio Lower Upper

180 100

182 94.6 77.0 115.6

145 30.4 24.5 36.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

