

Data File : VV013247.D  
Acq On : 21 Oct 2019 16:35  
Operator : SY/MD  
Sample : VSTD00533  
Misc : 25.00ML/MSVOA\_V/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00533

Quant Time: Oct 22 01:54:39 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Oct 22 01:49:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 484355   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 512991   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 329535   | 5.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.31  | 65  | 178129 | 3.78  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 154830 | 4.08  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 329092 | 4.37  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.99  | 46  | 296427 | 31.09 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.39  | 84  | 438988 | 4.65  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 201830 | 4.53  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.09  | 84  | 869621 | 4.53  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.13  | 67  | 261538 | 4.56  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 830716 | 4.85  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 96999  | 4.70  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.14  | 63  | 390870 | 47.71 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 188956 | 4.59  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 305972 | 4.44  | ug/L | 0.00 |

Target Compounds

|                                |      |     |         |             | Qvalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 270180  | 4.521 ug/L  | 100    |
| 3) Chloromethane               | 1.24 | 50  | 221411  | 3.921 ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 228439  | 4.535 ug/L  | 100    |
| 6) Bromomethane                | 1.53 | 94  | 125765  | 4.460 ug/L  | 100    |
| 8) Chloroethane                | 1.59 | 64  | 136530  | 4.688 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 332740  | 4.622 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 199934  | 4.873 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 189056  | 4.824 ug/L  | 100    |
| 13) Acetone                    | 2.25 | 43  | 183420  | 38.694 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 541117  | 4.850 ug/L  | 100    |
| 15) Methyl Acetate             | 2.49 | 43  | 50321   | 4.554 ug/L  | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 219986  | 4.595 ug/L  | 100    |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 409354  | 4.063 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 204203  | 4.136 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 313835  | 3.587 ug/L  | 100    |
| 21) 2-Butanone                 | 4.07 | 43  | 408173  | 37.506 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.95 | 96  | 211387  | 4.150 ug/L  | 100    |
| 23) Bromochloromethane         | 4.29 | 128 | 113458  | 4.796 ug/L  | 100    |
| 25) Chloroform                 | 4.42 | 83  | 446586  | 4.583 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 256627  | 4.804 ug/L  | 100    |
| 29) 1,1,1-Trichloroethane      | 4.64 | 97  | 374038  | 4.727 ug/L  | 100    |
| 30) Cyclohexane                | 4.70 | 56  | 381372  | 4.695 ug/L  | 100    |
| 31) Carbon tetrachloride       | 4.86 | 117 | 333884  | 4.767 ug/L  | 100    |
| 33) Benzene                    | 5.14 | 78  | 988474  | 4.807 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 254053  | 4.745 ug/L  | 100    |
| 35) Methylcyclohexane          | 6.18 | 83  | 392917  | 4.816 ug/L  | 100    |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 239319  | 4.742 ug/L  | 100    |
| 38) Bromodichloromethane       | 6.57 | 83  | 300447  | 4.682 ug/L  | 100    |
| 39) cis-1,3-Dichloropropene    | 7.08 | 75  | 319856  | 4.736 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 7.29 | 43  | 1262663 | 46.893 ug/L | 100    |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Oct 22 01:49:59 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 1053772  | 4.978  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.70  | 75   | 243900   | 4.707  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 165036   | 4.735  | ug/L  | 100      |
| 47) Tetrachloroethene          | 8.02  | 164  | 234319   | 4.967  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.19  | 43   | 924775   | 47.568 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 201819   | 4.830  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 151913   | 4.822  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.92  | 112  | 662872   | 4.846  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.05  | 91   | 1066342  | 4.849  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 421480   | 5.061  | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 391365   | 4.873  | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 696134   | 5.156  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 1056341  | 4.986  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 186348   | 4.626  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 136775   | 4.667  | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 116082   | 4.372  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 557335   | 4.748  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 562369   | 4.791  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 506870   | 4.569  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 27335    | 3.948  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 392843   | 4.563  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 323856   | 4.356  | ug/L  | 100      |
| 69) Naphthalene                | 13.55 | 128  | 435648   | 3.843  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 317027   | 4.297  | ug/L  | 100      |

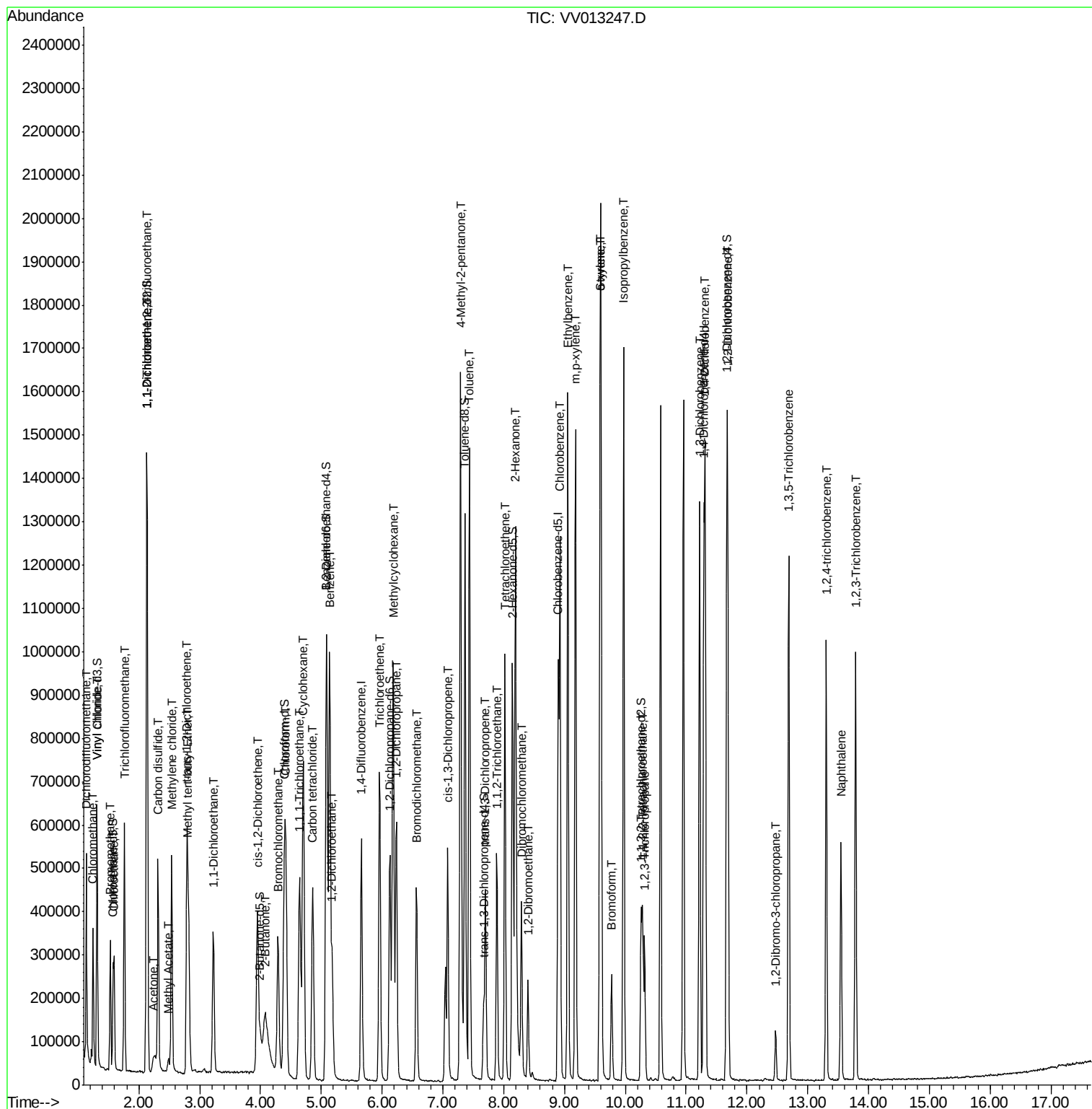
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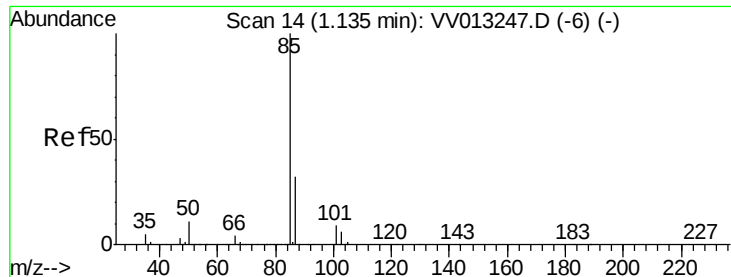
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#2

Dichlorodifluoromethane

Concen: 4.521 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

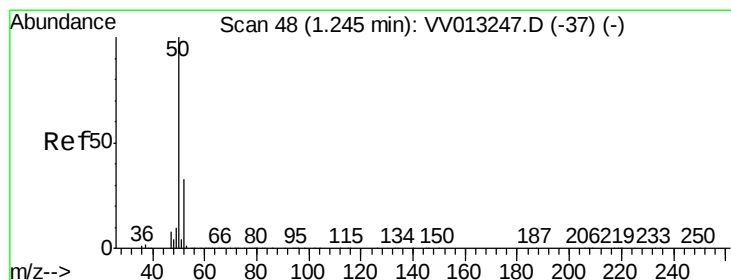
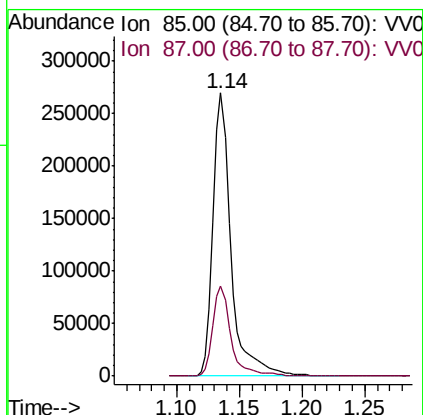
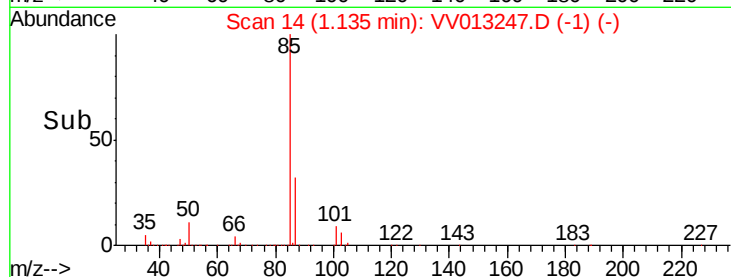
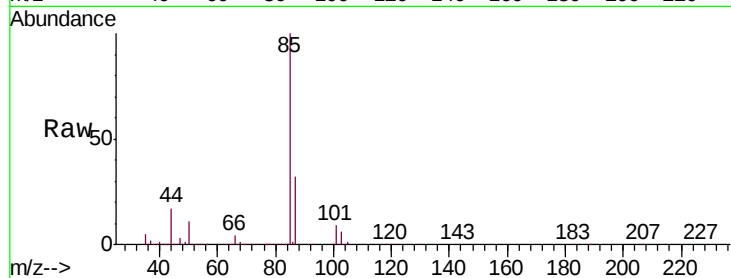
VSTD00533

Tgt Ion: 85 Resp: 270180

Ion Ratio Lower Upper

85 100

87 31.8 25.4 38.2



#3

Chloromethane

Concen: 3.921 ug/L

RT: 1.24 min Scan# 48

Delta R.T. 0.00 min

Lab File: VV013247.D

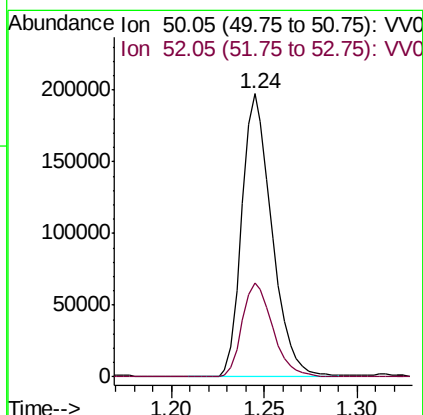
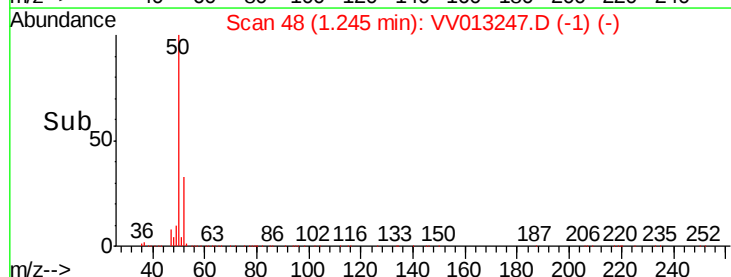
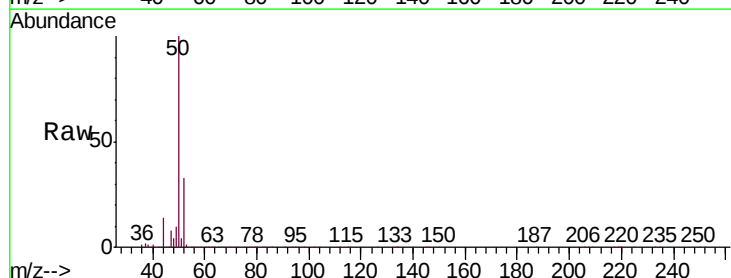
Acq: 21 Oct 2019 16:35

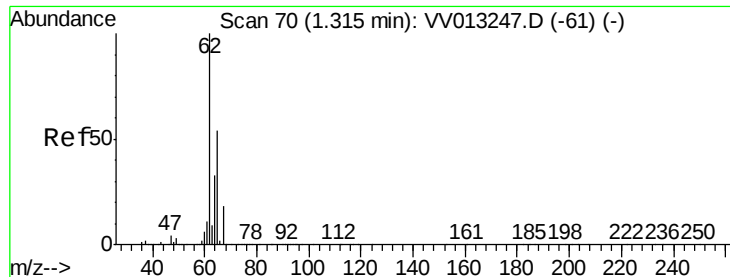
Tgt Ion: 50 Resp: 221411

Ion Ratio Lower Upper

50 100

52 33.3 23.3 43.3





#5

Vinyl chloride

Concen: 4.535 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

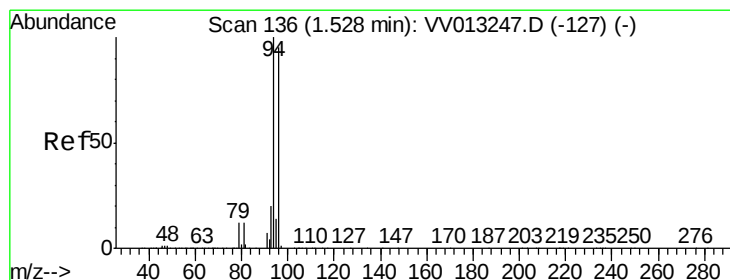
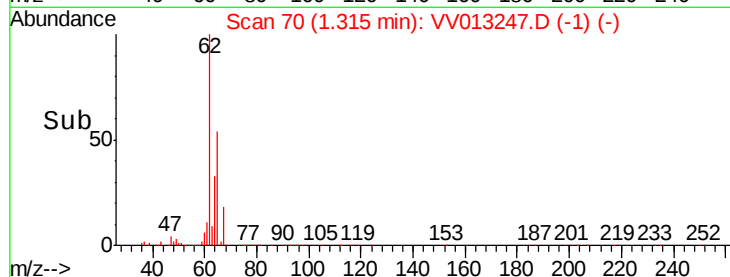
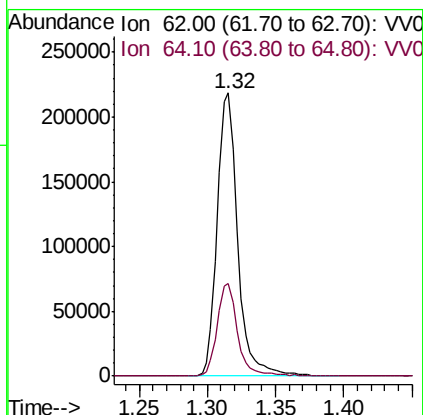
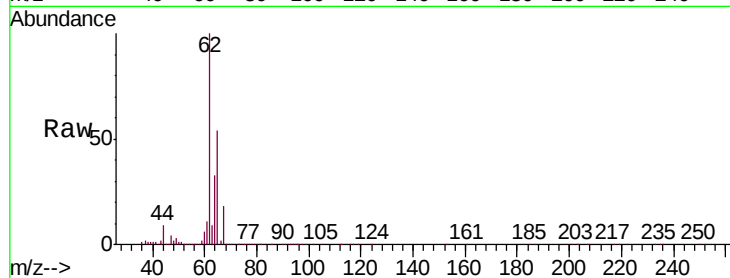
VSTD00533

Tgt Ion: 62 Resp: 228439

Ion Ratio Lower Upper

62 100

64 32.7 22.9 42.5



#6

Bromomethane

Concen: 4.460 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV013247.D

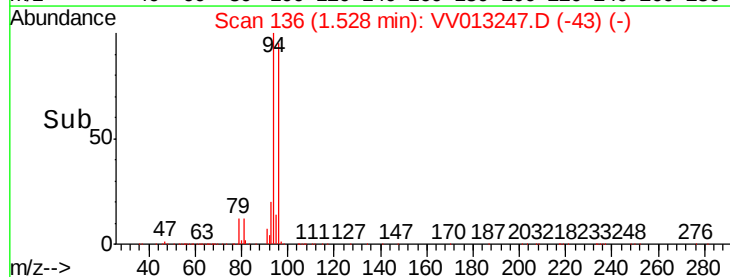
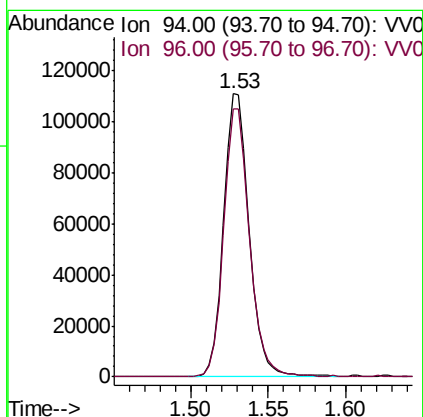
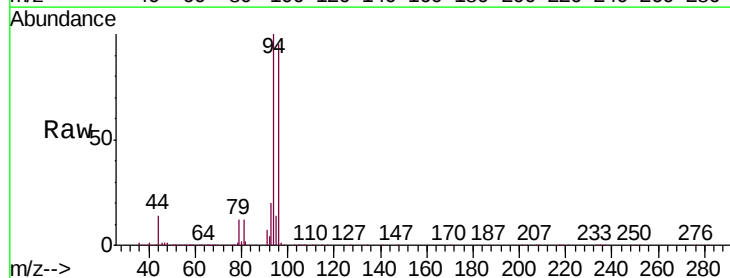
Acq: 21 Oct 2019 16:35

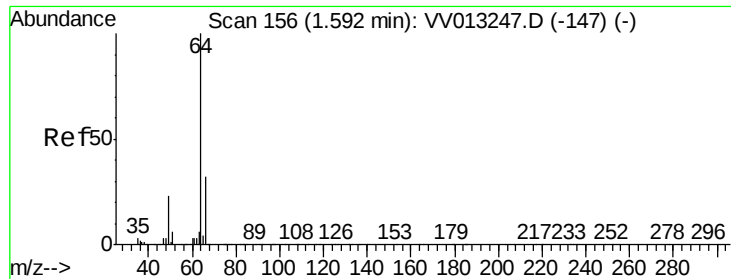
Tgt Ion: 94 Resp: 125765

Ion Ratio Lower Upper

94 100

96 94.6 66.2 123.0





#8

Chloroethane

Concen: 4.688 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

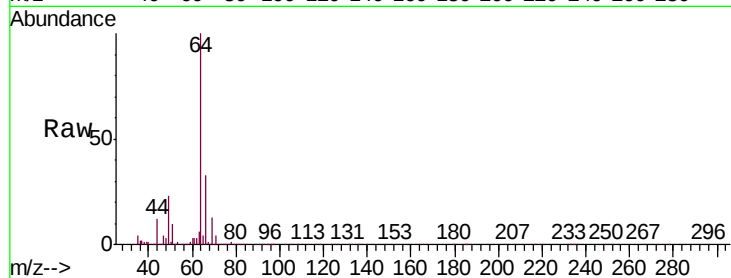
VSTD00533

Tgt Ion: 64 Resp: 136530

Ion Ratio Lower Upper

64 100

66 32.5 22.7 42.3



Abundance Ion 64.10 (63.80 to 64.80): VV013247.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV013247.D (-147) (-)

1.59

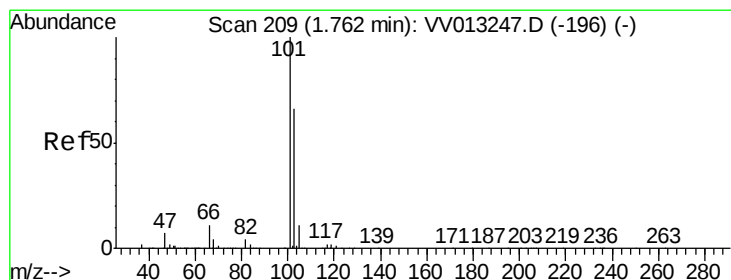
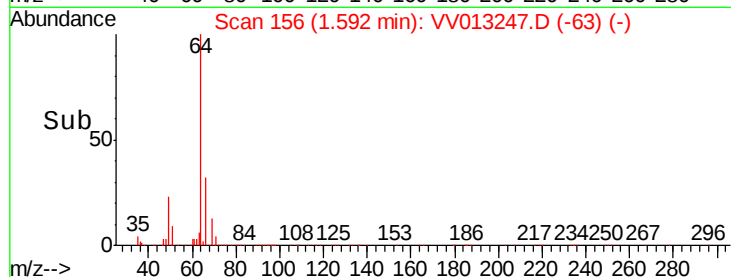
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50000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 4.622 ug/L

RT: 1.76 min Scan# 209

Delta R.T. 0.00 min

Lab File: VV013247.D

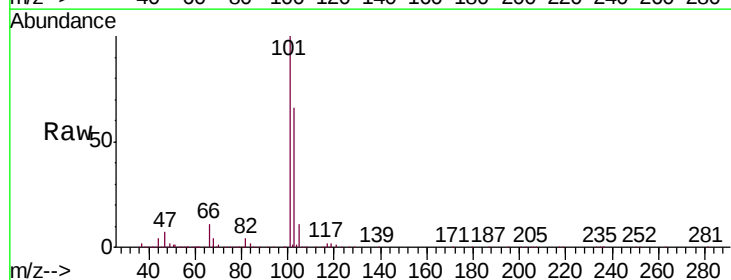
Acq: 21 Oct 2019 16:35

Tgt Ion: 101 Resp: 332740

Ion Ratio Lower Upper

101 100

103 66.0 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): VV013247.D (-196) (-)

Ion 103.00 (102.70 to 103.70): VV013247.D (-196) (-)

1.76

300000

250000

200000

150000

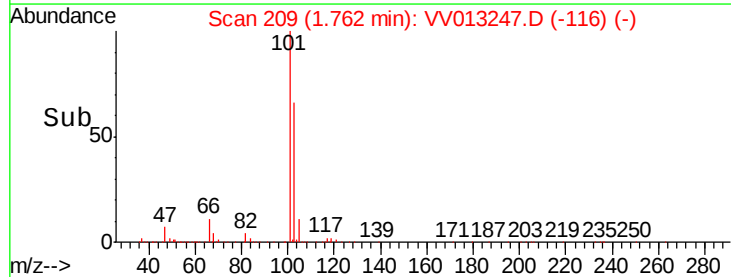
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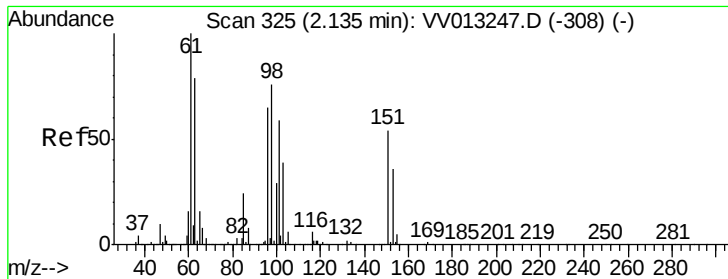
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0

1.70 1.75 1.80

Time-->





#10

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

Concen: 4.873 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

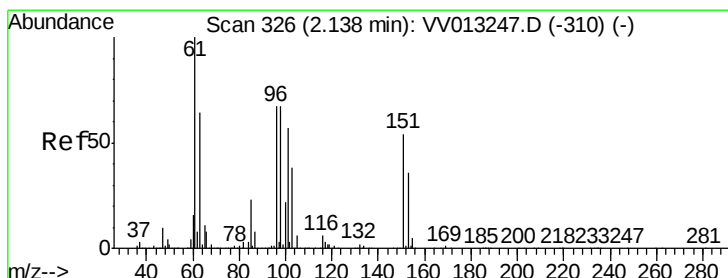
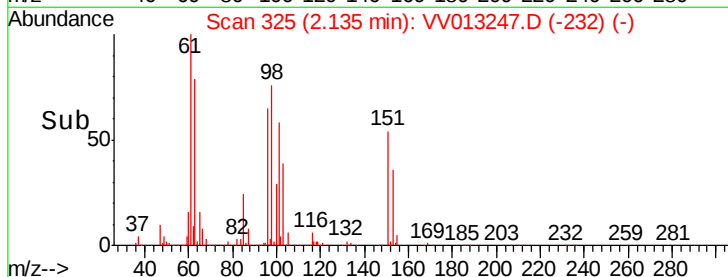
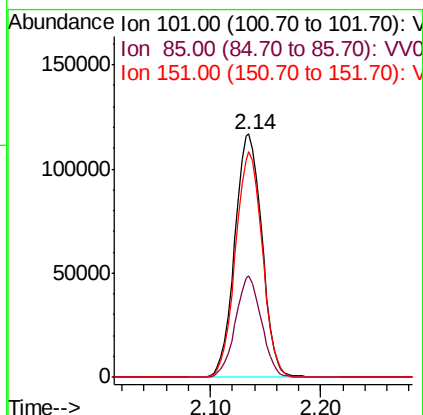
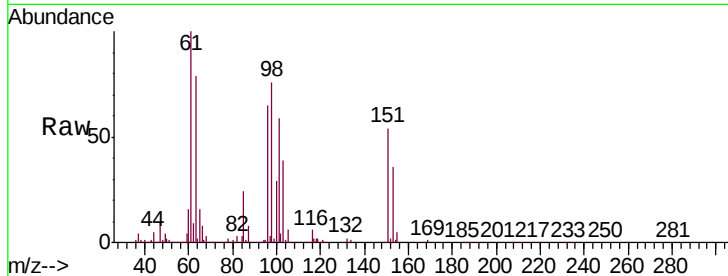
Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 101   | Resp: | 199934 |
| Ion      | Ratio | Lower | Upper  |
| 101      | 100   |       |        |
| 85       | 39.8  | 31.8  | 47.8   |
| 151      | 91.1  | 72.9  | 109.3  |



#12

1,1-Dichloroethene

Concen: 4.824 ug/L

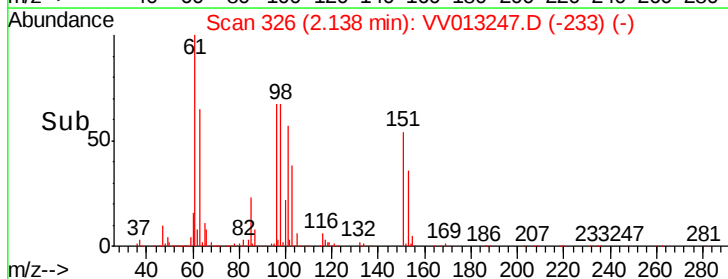
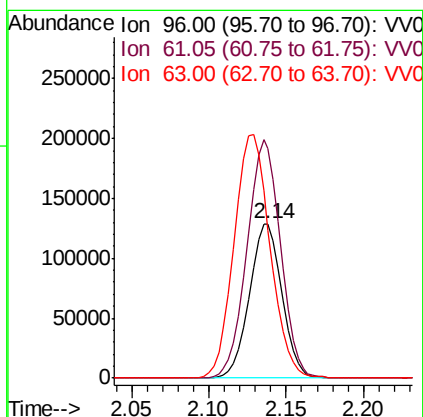
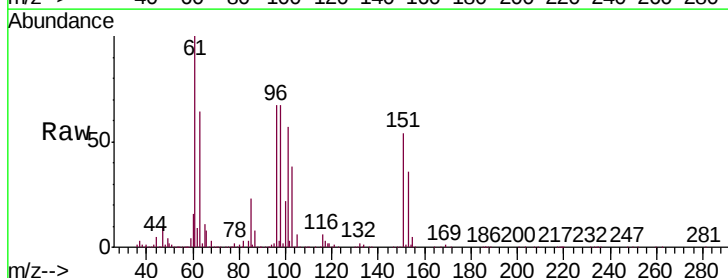
RT: 2.14 min Scan# 326

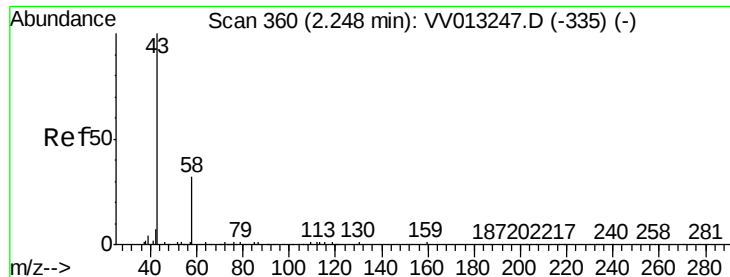
Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 189056 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 148.5 | 104.0 | 193.1  |
| 63       | 95.8  | 67.1  | 124.5  |





#13

Acetone

Concen: 38.694 ug/L

RT: 2.25 min Scan# 360

Delta R.T. 0.00 min

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MSVOA\_V

ClientSampleId :

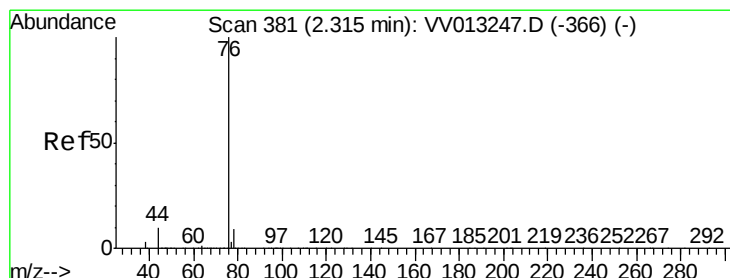
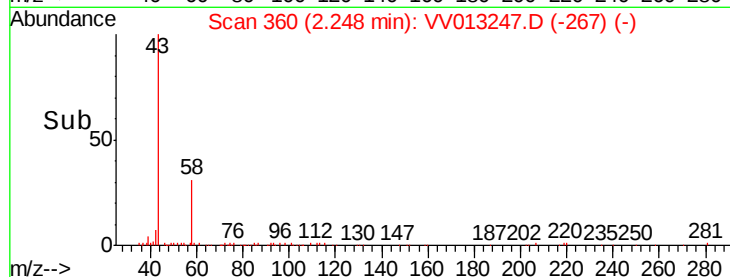
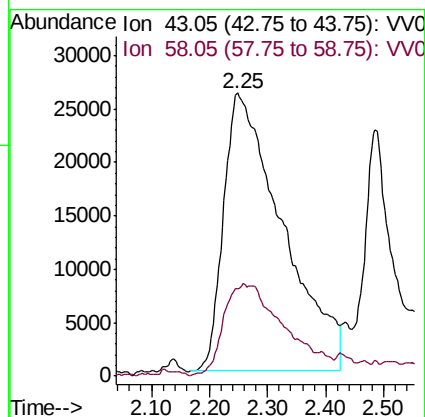
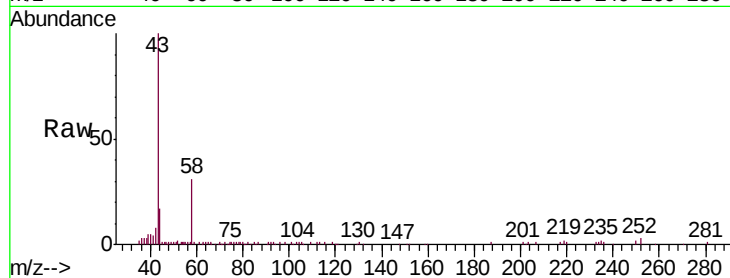
VSTD00533

Tgt Ion: 43 Resp: 183420

Ion Ratio Lower Upper

43 100

58 13.1 0.0 26.2



#14

Carbon disulfide

Concen: 4.850 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013247.D

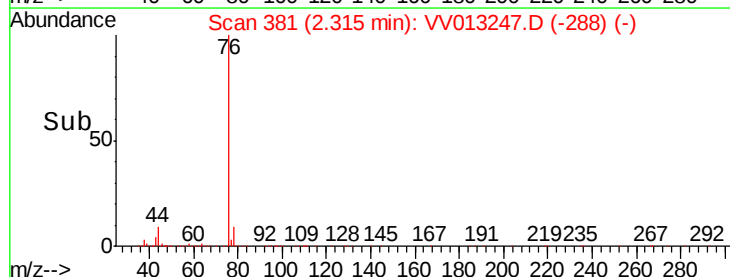
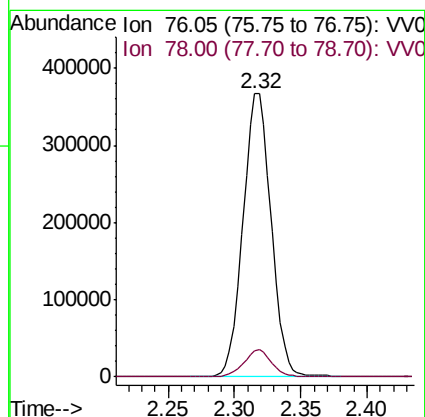
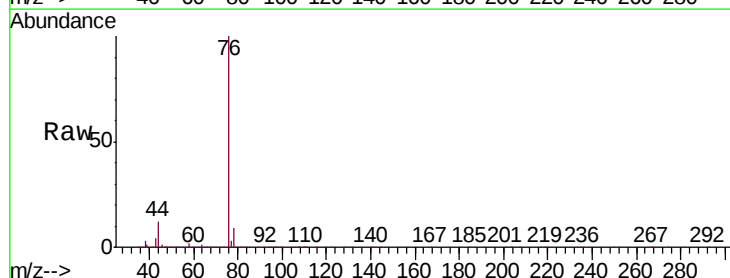
Acq: 21 Oct 2019 16:35

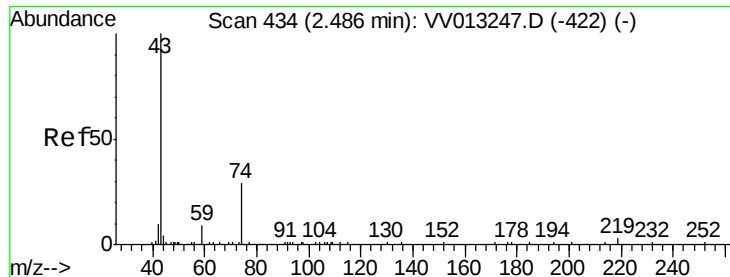
Tgt Ion: 76 Resp: 541117

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

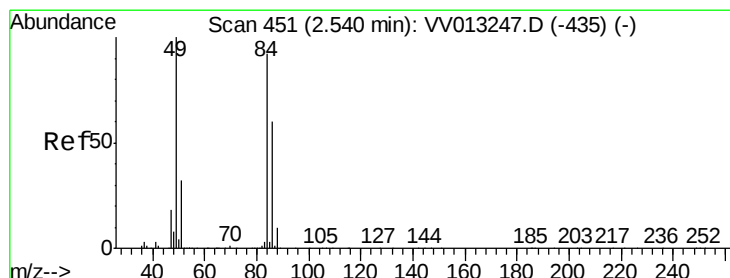
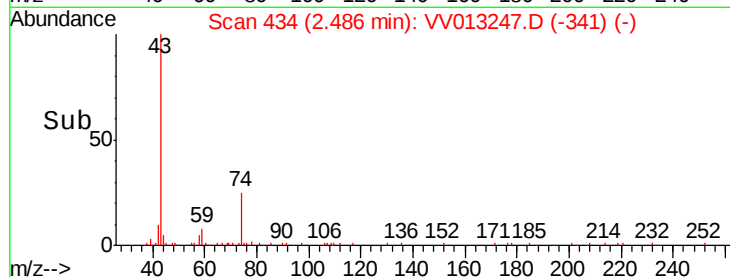
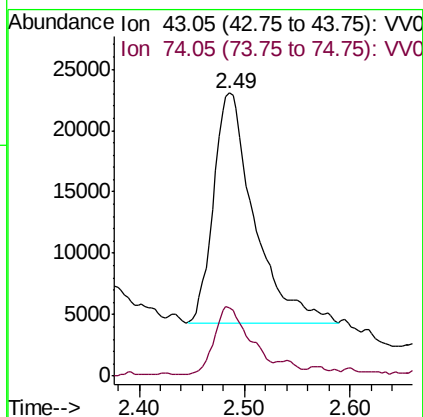
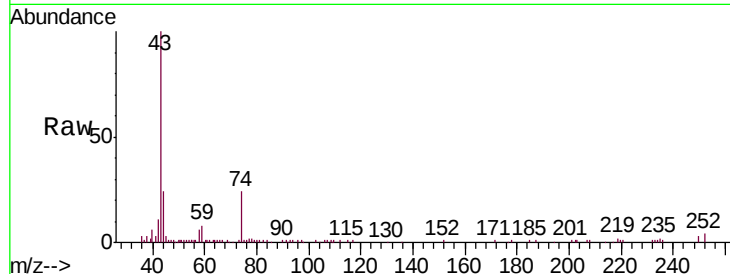




#15  
Methyl Acetate  
Concen: 4.554 ug/L  
RT: 2.49 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

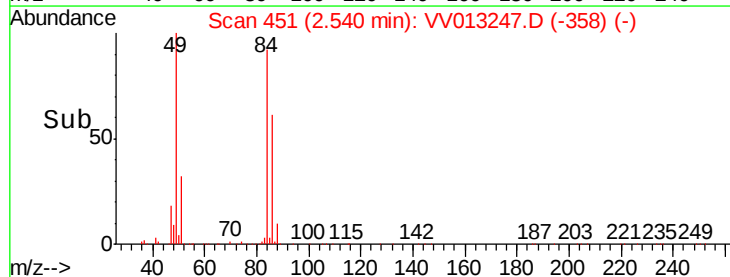
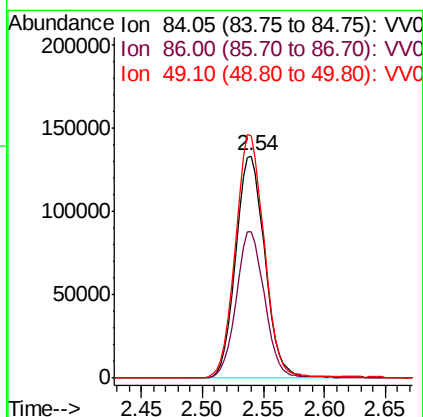
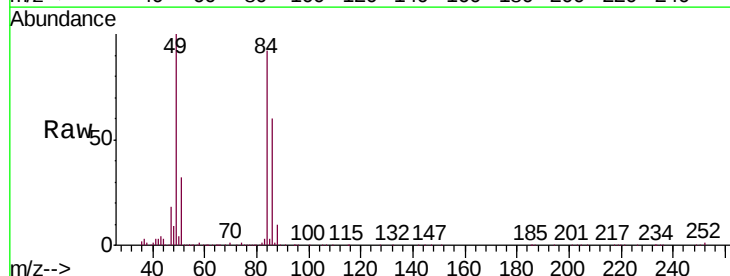
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD00533

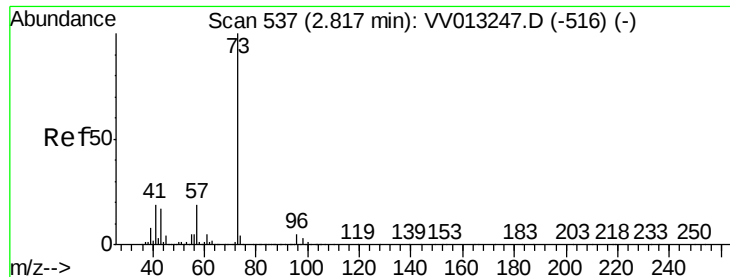
Tgt Ion: 43 Resp: 50321  
Ion Ratio Lower Upper  
43 100  
74 25.5 20.4 30.6



#16  
Methylene chloride  
Concen: 4.595 ug/L  
RT: 2.54 min Scan# 451  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Tgt Ion: 84 Resp: 219986  
Ion Ratio Lower Upper  
84 100  
86 66.0 46.2 85.8  
49 109.1 76.4 141.8





#17

Methyl tert-butyl Ether

Concen: 4.063 ug/L

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

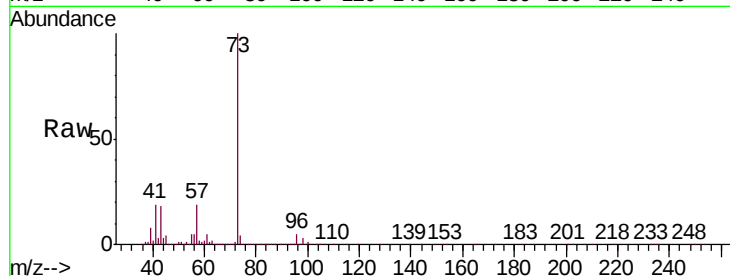
Tgt Ion: 73 Resp: 409354

Ion Ratio Lower Upper

73 100

43 16.4 13.1 19.7

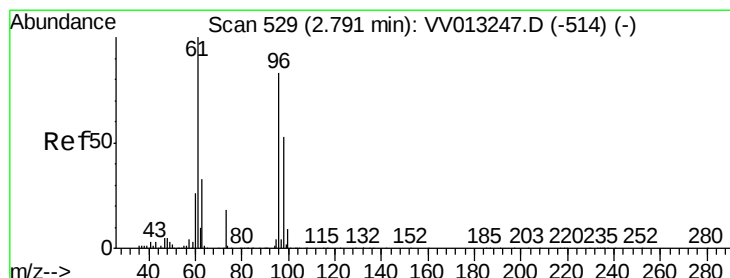
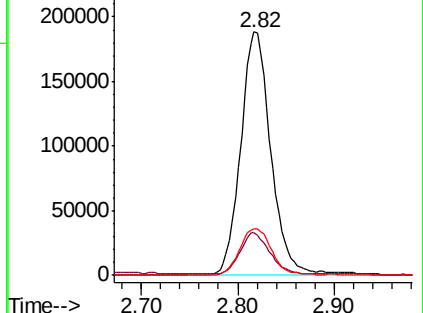
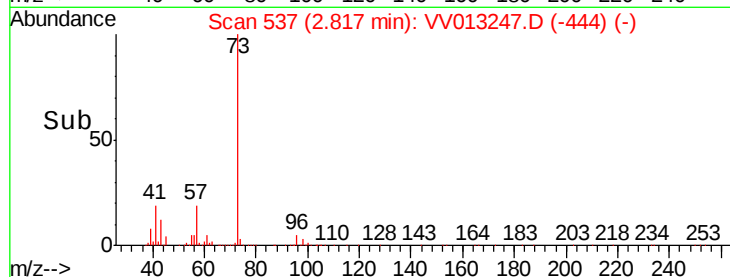
57 20.5 16.4 24.6



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 4.136 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

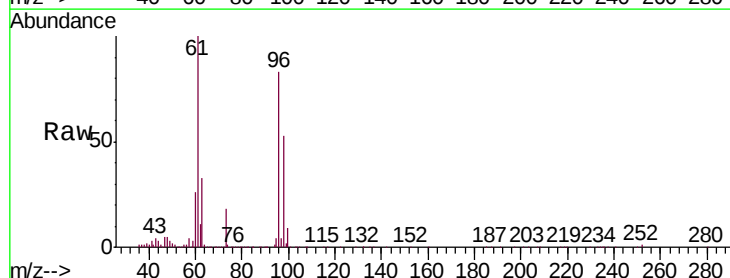
Tgt Ion: 96 Resp: 204203

Ion Ratio Lower Upper

96 100

61 120.6 84.4 156.8

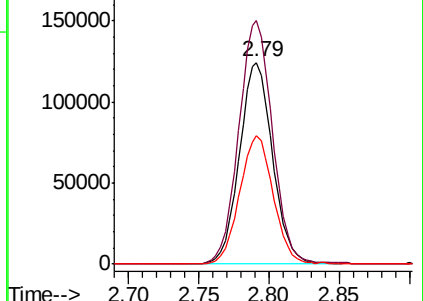
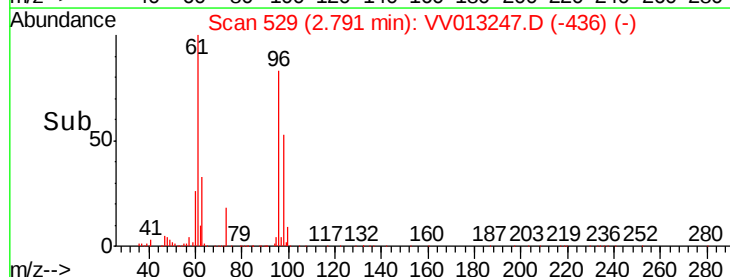
98 63.4 44.4 82.4

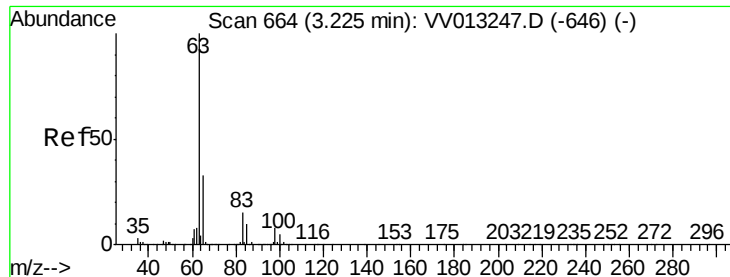


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

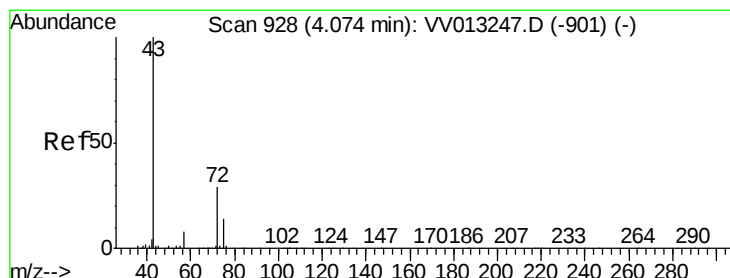
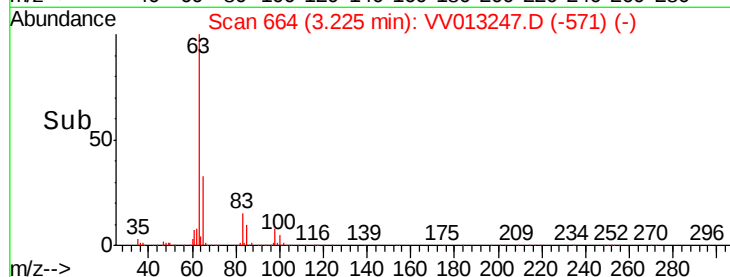
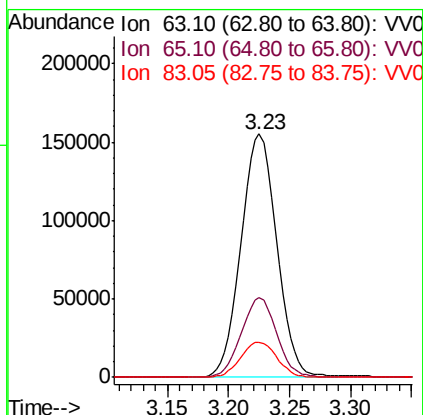
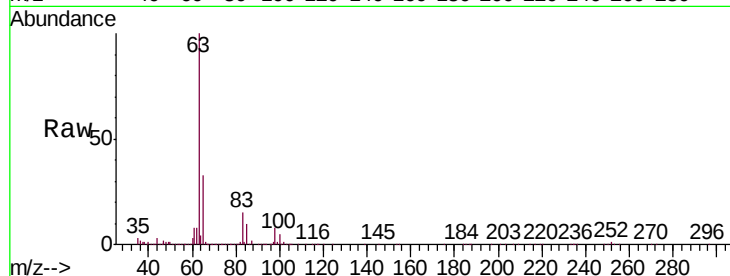




#19  
 1,1-Dichloroethane  
 Concen: 3.587 ug/L  
 RT: 3.23 min Scan# 664  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

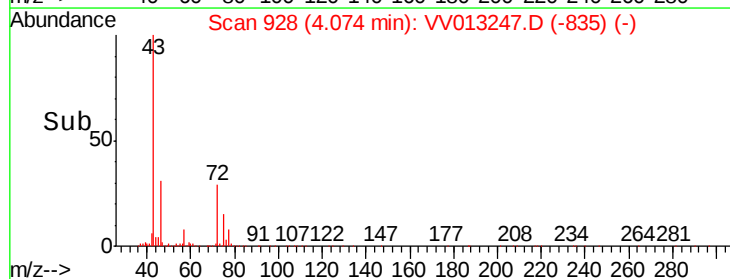
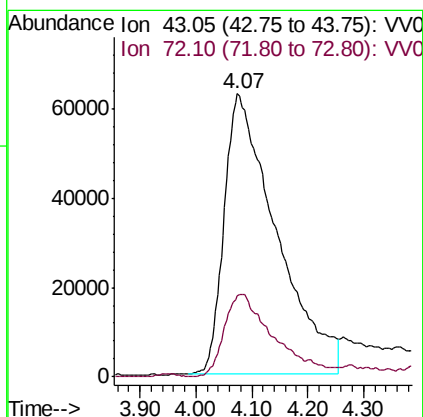
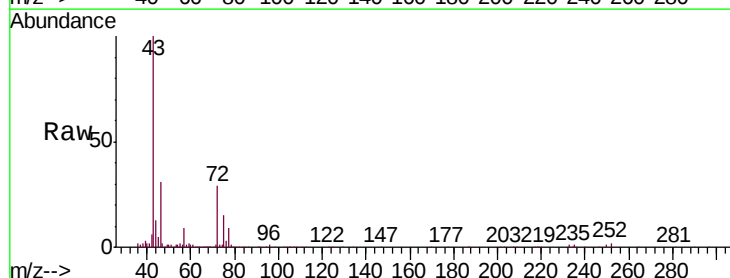
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

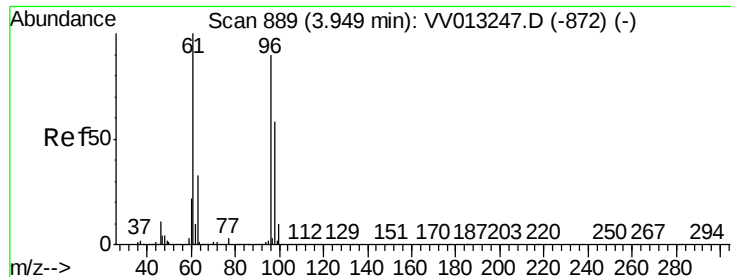
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 313835 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 32.9  | 23.0  | 42.8   |
| 83       | 14.6  | 10.2  | 19.0   |



#21  
 2-Butanone  
 Concen: 37.506 ug/L  
 RT: 4.07 min Scan# 928  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 408173 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 26.2  | 13.1  | 39.3   |



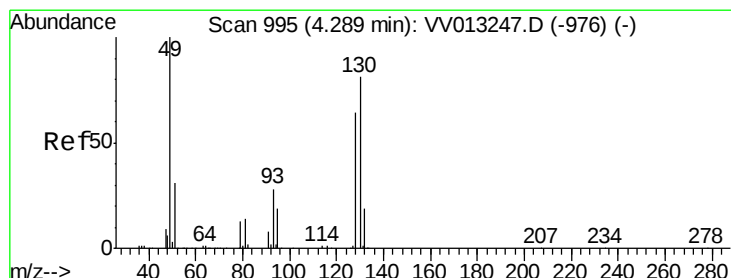
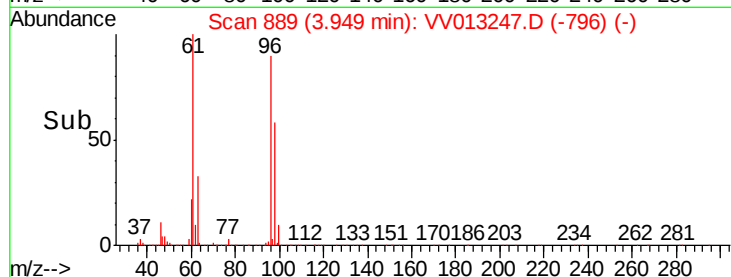
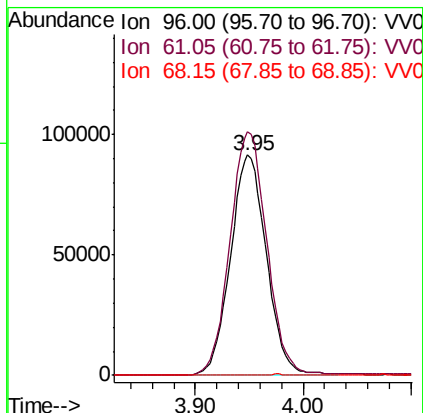
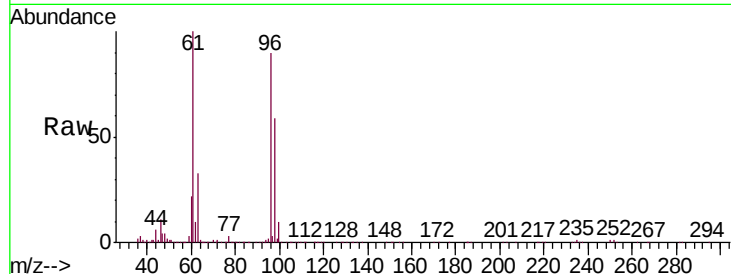


#22

cis-1,2-Dichloroethene  
Concen: 4.150 ug/L  
RT: 3.95 min Scan# 889  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00533

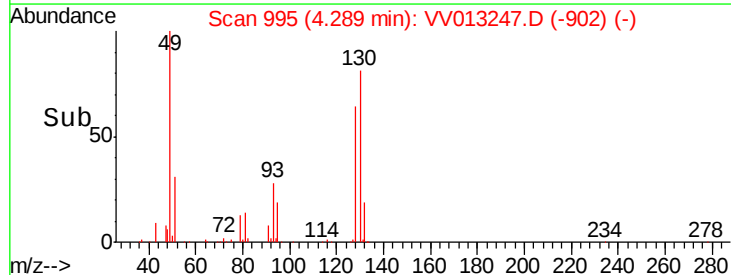
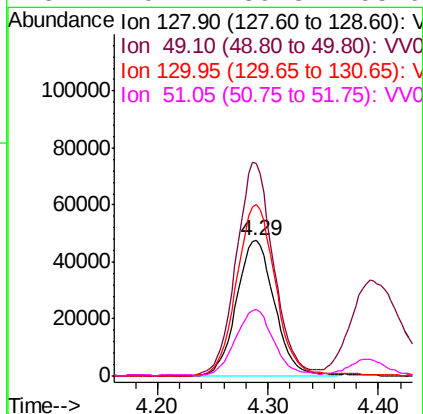
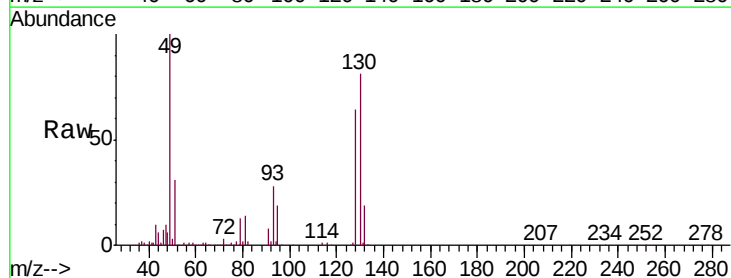
Tgt Ion: 96 Resp: 211387  
Ion Ratio Lower Upper  
96 100  
61 110.5 77.3 143.7  
68 0.1 0.1 0.1

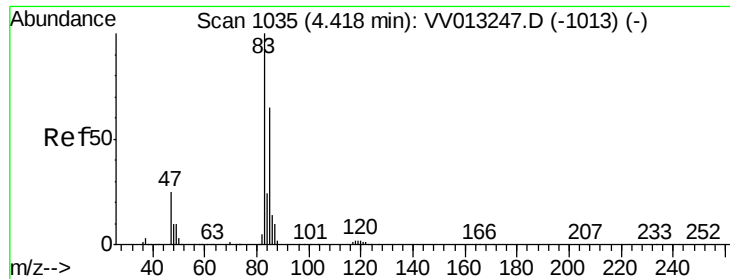


#23

Bromochloromethane  
Concen: 4.796 ug/L  
RT: 4.29 min Scan# 995  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Tgt Ion: 128 Resp: 113458  
Ion Ratio Lower Upper  
128 100  
49 157.0 109.9 204.1  
130 126.7 88.7 164.7  
51 49.1 39.3 58.9

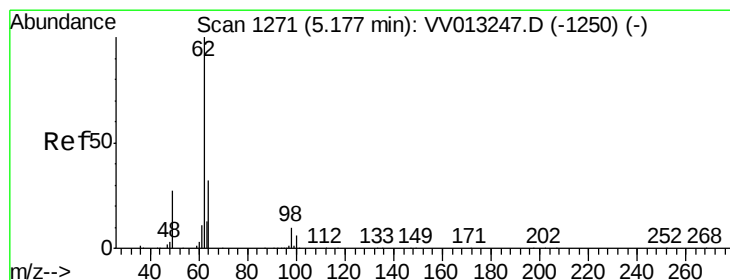
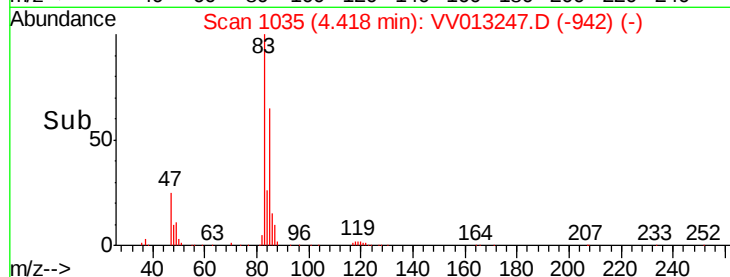
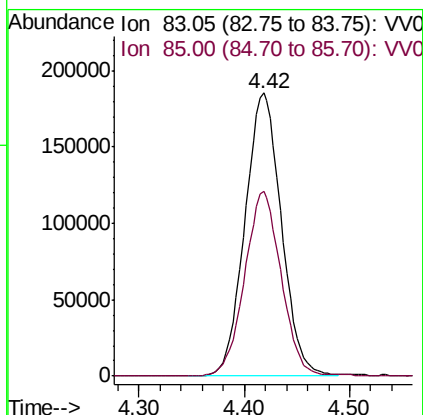
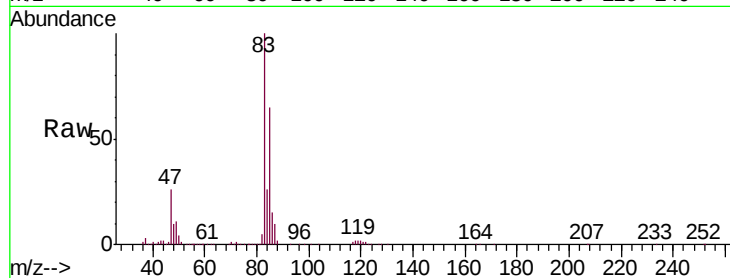




#25  
Chloroform  
Concen: 4.583 ug/L  
RT: 4.42 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

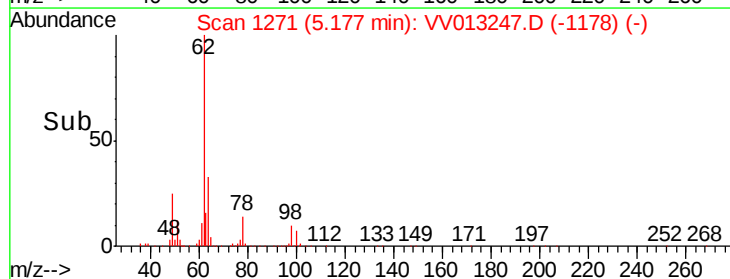
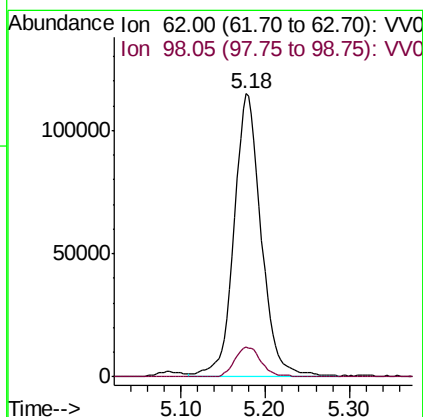
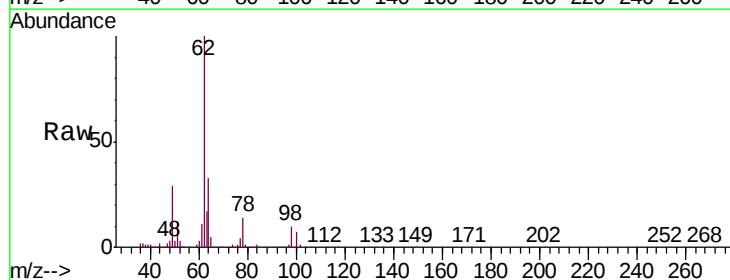
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00533

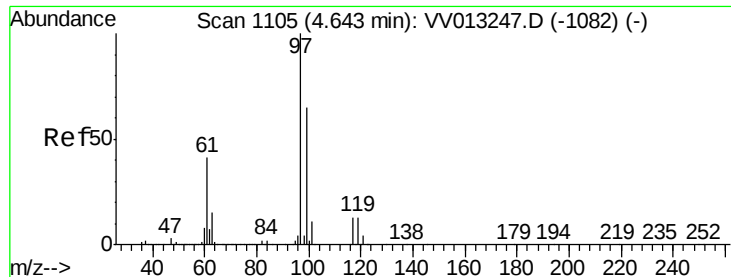
Tgt Ion: 83 Resp: 446586  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.7 84.9



#27  
1,2-Dichloroethane  
Concen: 4.804 ug/L  
RT: 5.18 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Tgt Ion: 62 Resp: 256627  
Ion Ratio Lower Upper  
62 100  
98 10.4 8.3 12.5

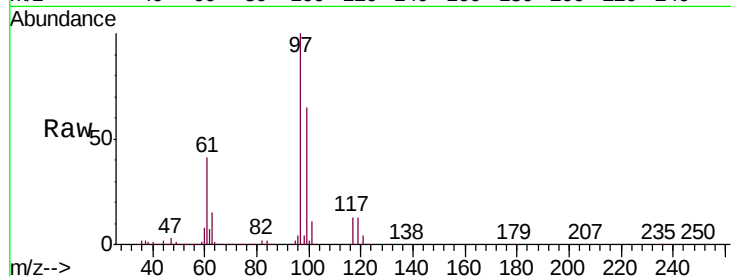




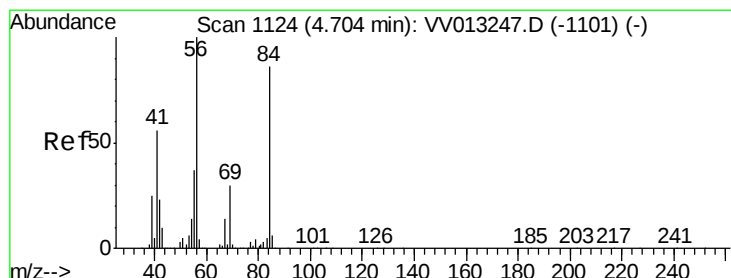
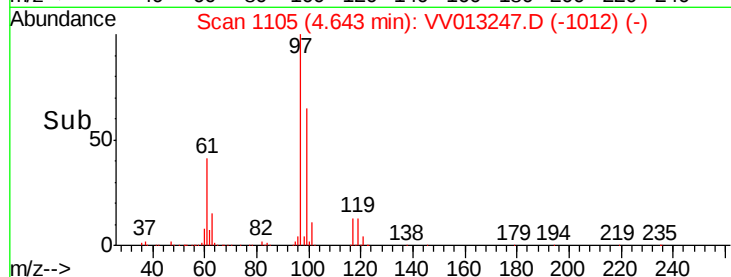
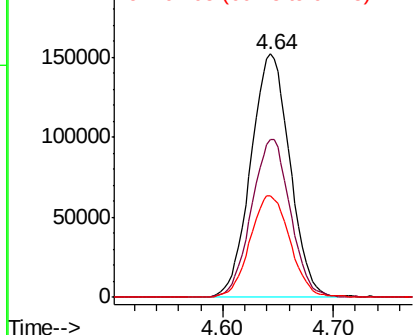
#29  
 1,1,1-Trichloroethane  
 Concen: 4.727 ug/L  
 RT: 4.64 min Scan# 1105  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

Tgt Ion: 97 Resp: 374038  
 Ion Ratio Lower Upper  
 97 100  
 99 64.6 51.7 77.5  
 61 42.9 34.3 51.5

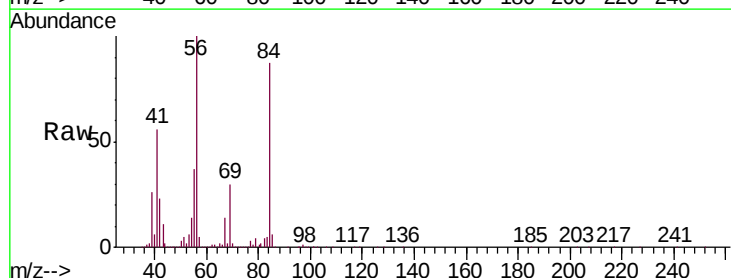


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 61.05 (60.75 to 61.75): VV0

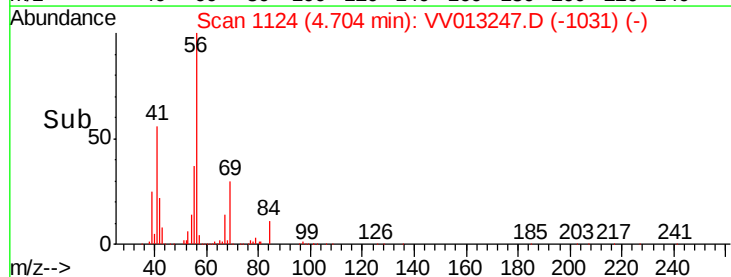
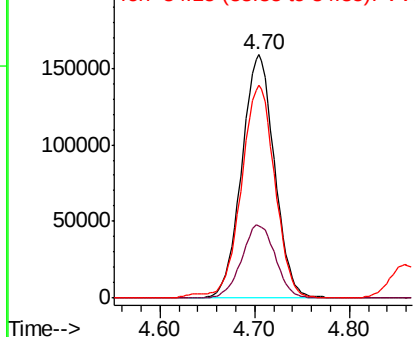


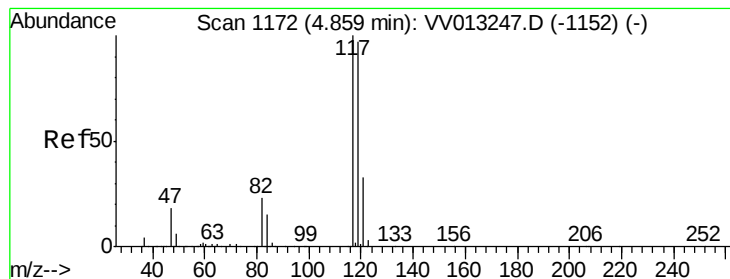
#30  
 Cyclohexane  
 Concen: 4.695 ug/L  
 RT: 4.70 min Scan# 1124  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

Tgt Ion: 56 Resp: 381372  
 Ion Ratio Lower Upper  
 56 100  
 69 30.8 24.6 37.0  
 84 88.8 71.0 106.6



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: 4.767 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

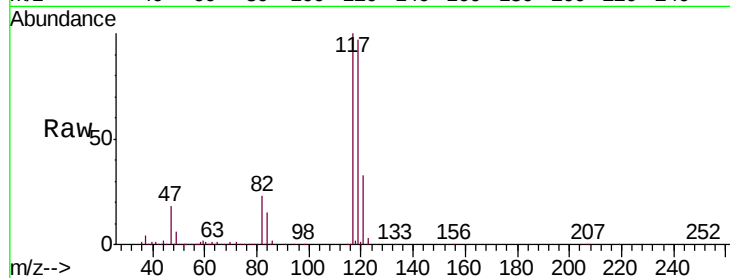
VSTD00533

Tgt Ion:117 Resp: 333884

Ion Ratio Lower Upper

117 100

119 96.7 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

150000

100000

50000

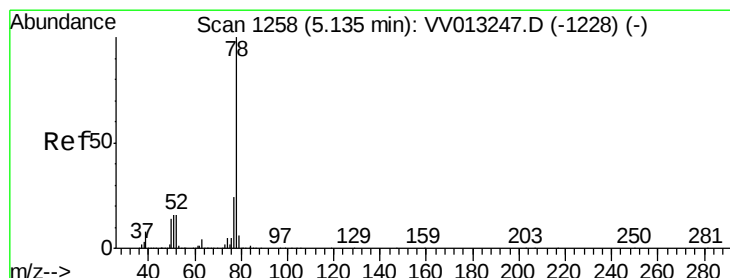
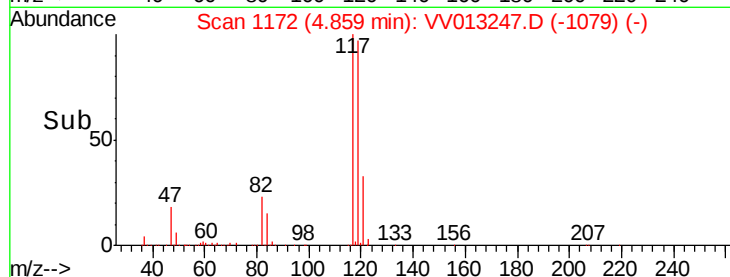
0

4.86

4.80

4.90

Time-->



#33

Benzene

Concen: 4.807 ug/L

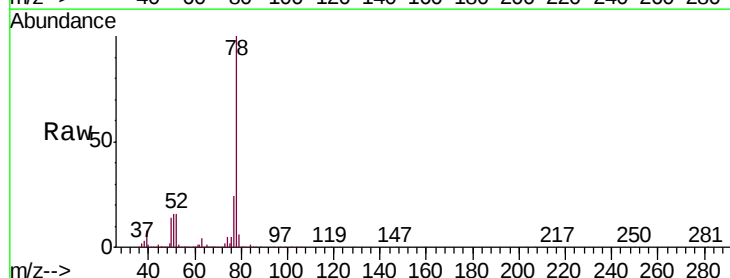
RT: 5.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Tgt Ion: 78 Resp: 988474



Abundance Ion 78.10 (77.80 to 78.80): VV0

500000

400000

300000

200000

100000

0

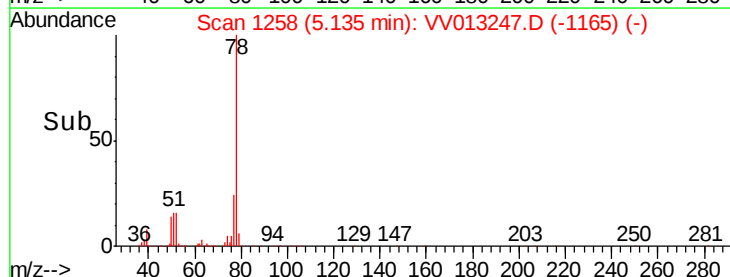
5.14

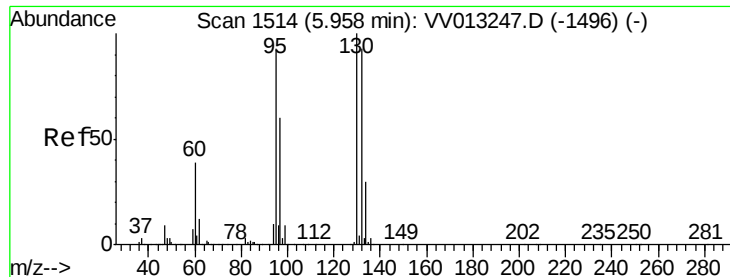
5.00

5.20

5.30

Time-->





#34

Trichloroethene

Concen: 4.745 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

Tgt Ion: 95 Resp: 254053

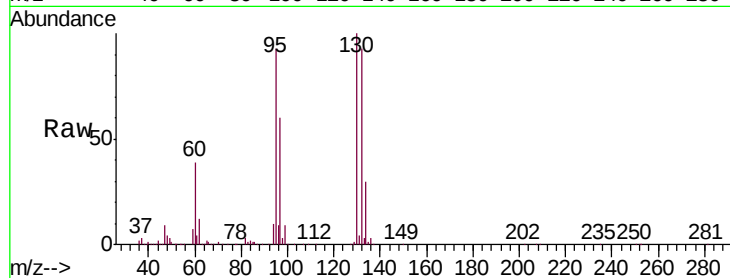
Ion Ratio Lower Upper

95 100

97 64.6 45.2 84.0

132 100.9 70.6 131.2

130 107.9 75.5 140.3



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

200000

150000

100000

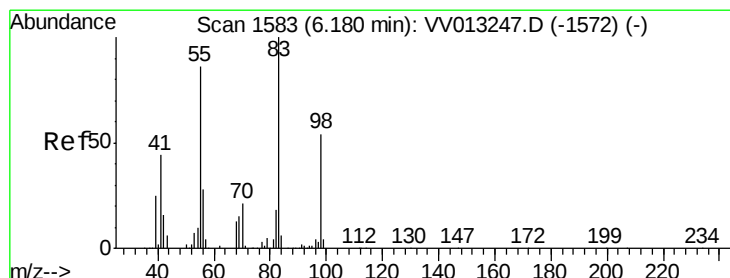
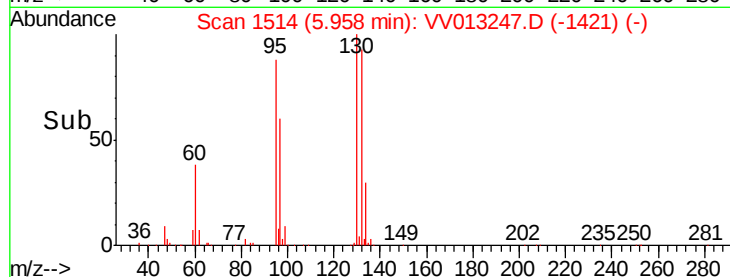
50000

0

5.96

5.90 6.00 6.10

Time-->



#35

Methylcyclohexane

Concen: 4.816 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

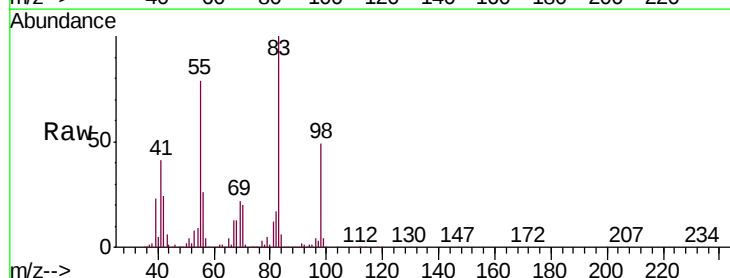
Tgt Ion: 83 Resp: 392917

Ion Ratio Lower Upper

83 100

55 78.0 62.4 93.6

98 49.0 39.2 58.8



Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

250000

200000

150000

100000

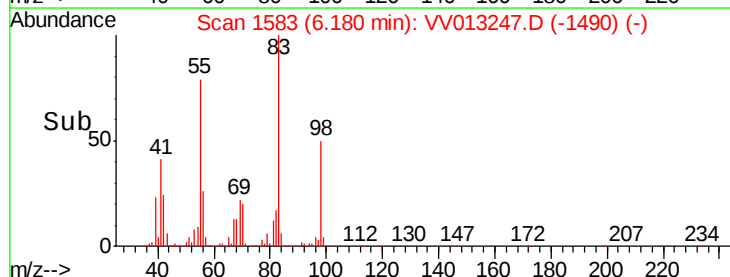
50000

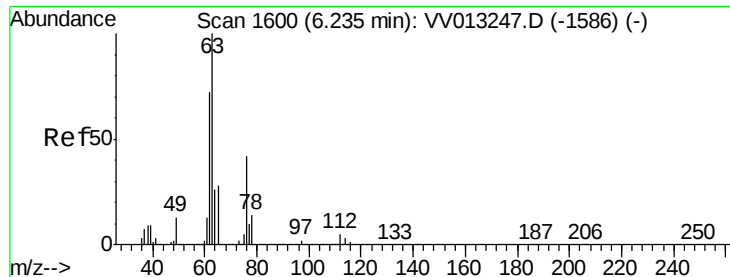
0

6.18

6.10 6.15 6.20 6.25

Time-->





#37

1,2-Dichloropropane

Concen: 4.742 ug/L

RT: 6.23 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

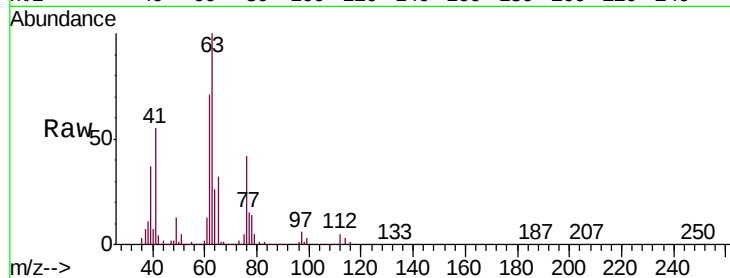
VSTD00533

Tgt Ion: 63 Resp: 239319

Ion Ratio Lower Upper

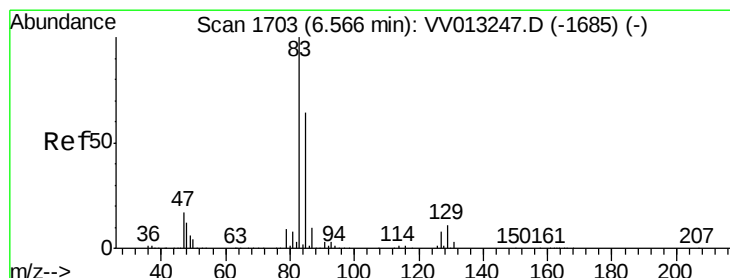
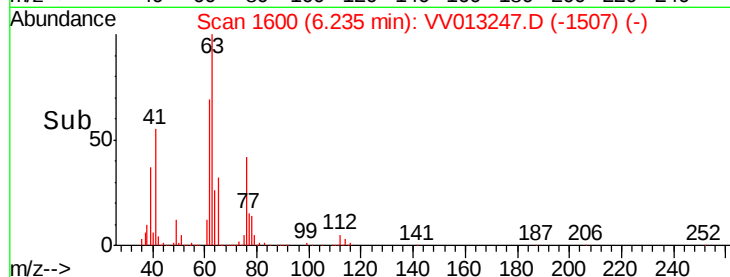
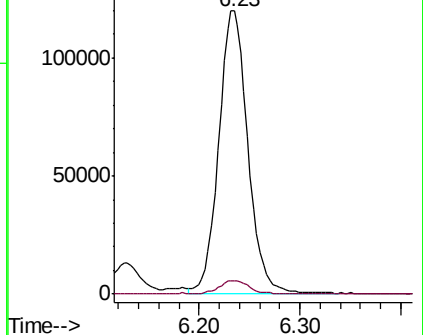
63 100

112 5.1 4.1 6.1



Abundance Ion 63.10 (62.80 to 63.80): VV013247.D (-1586) (-)

Ion 112.10 (111.80 to 112.80): VV013247.D (-1586) (-)



#38

Bromodichloromethane

Concen: 4.682 ug/L

RT: 6.57 min Scan# 1703

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

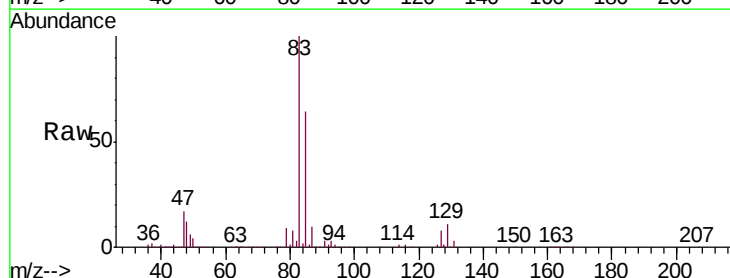
Tgt Ion: 83 Resp: 300447

Ion Ratio Lower Upper

83 100

85 63.5 44.4 82.5

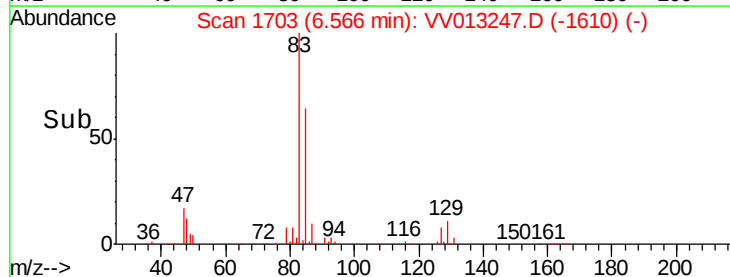
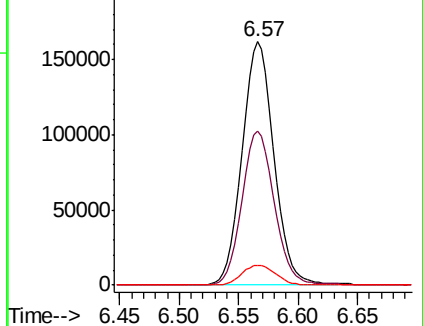
127 8.3 6.6 10.0

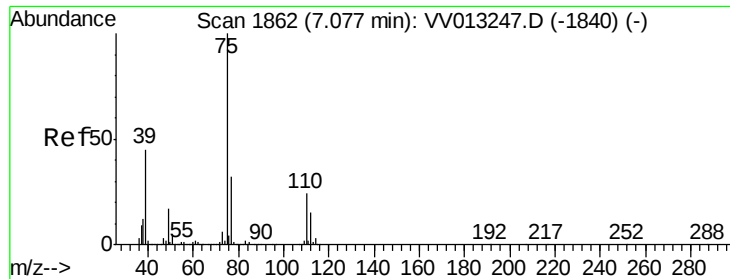


Abundance Ion 82.95 (82.65 to 83.65): VV013247.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV013247.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV013247.D (-1685) (-)





#39

cis-1,3-Dichloropropene

Concen: 4.736 ug/L

RT: 7.08 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

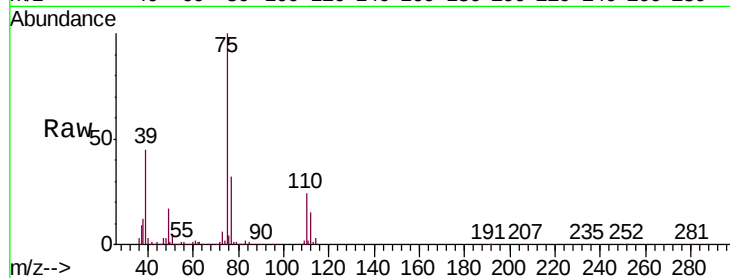
VSTD00533

Tgt Ion: 75 Resp: 319856

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.08

200000

150000

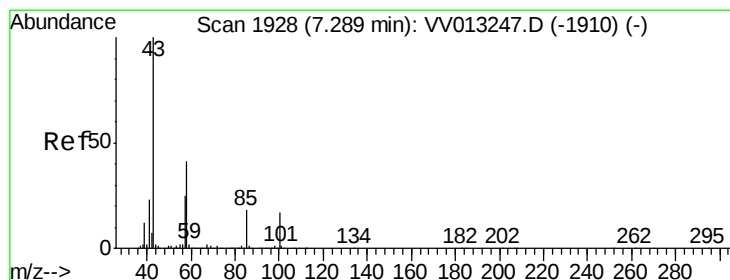
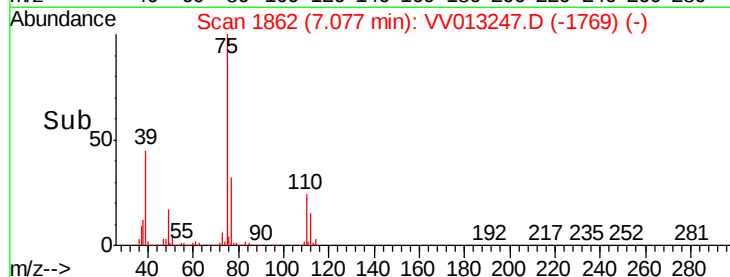
100000

50000

0

7.00 7.10 7.20

Time-->



#40

4-Methyl-2-pentanone

Concen: 46.893 ug/L

RT: 7.29 min Scan# 1928

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

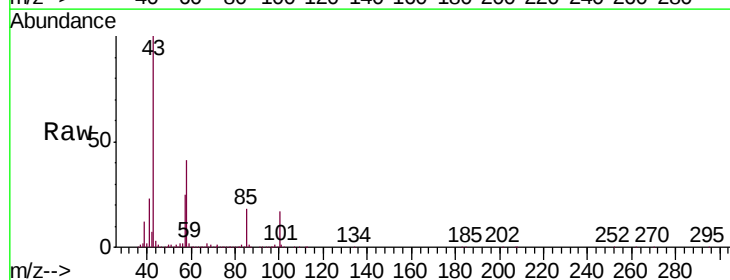
Tgt Ion: 43 Resp: 1262663

Ion Ratio Lower Upper

43 100

58 38.4 30.7 46.1

100 15.5 12.4 18.6



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

800000

600000

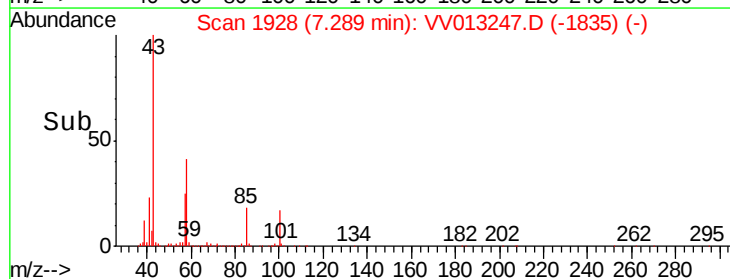
400000

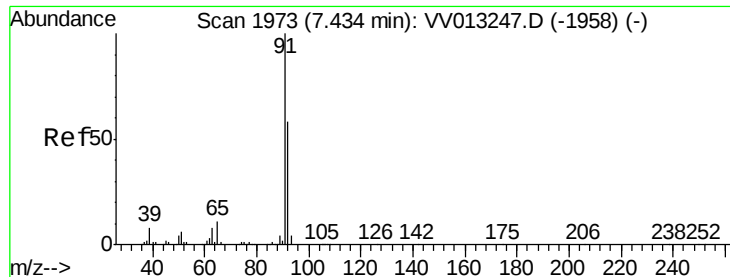
200000

0

7.20 7.30 7.40

Time-->





#42

Toluene

Concen: 4.978 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

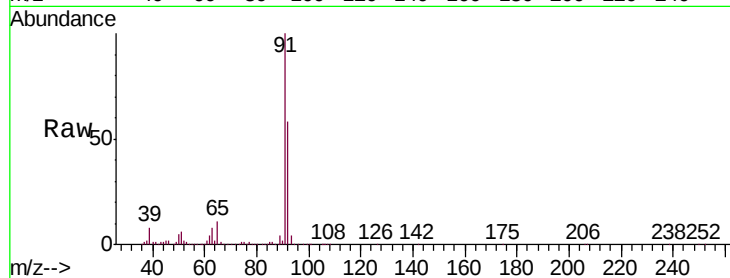
VSTD00533

Tgt Ion: 91 Resp: 1053772

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

600000

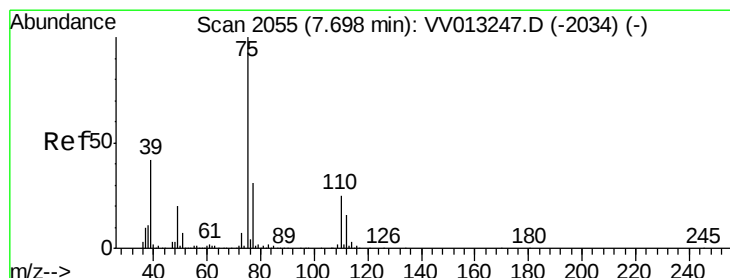
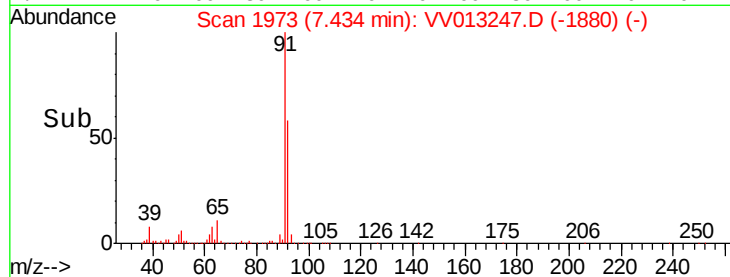
400000

200000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 4.707 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV013247.D

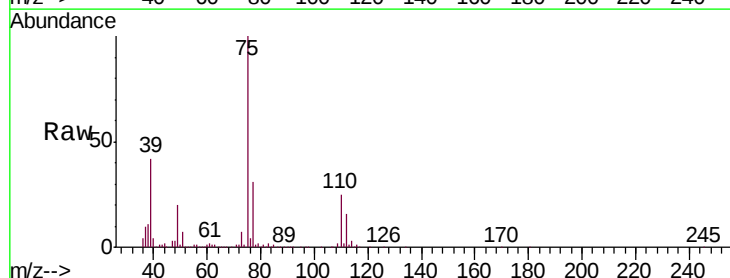
Acq: 21 Oct 2019 16:35

Tgt Ion: 75 Resp: 243900

Ion Ratio Lower Upper

75 100

77 31.2 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

150000

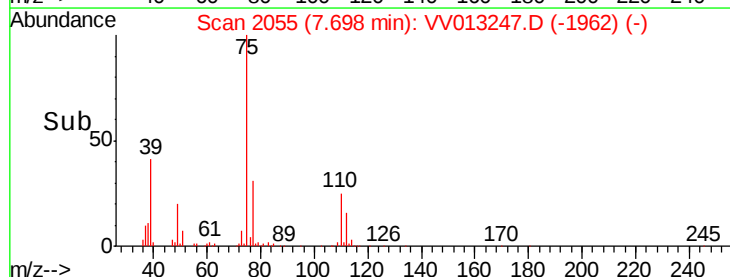
100000

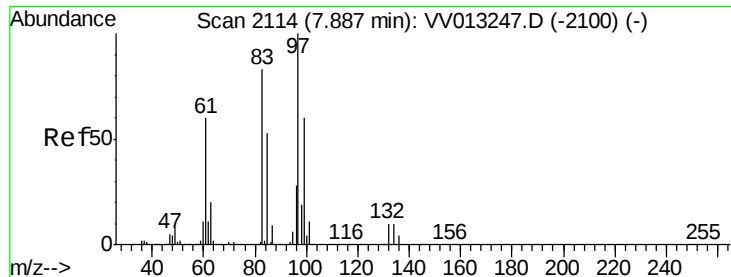
50000

0

Time-->

7.60 7.70 7.80

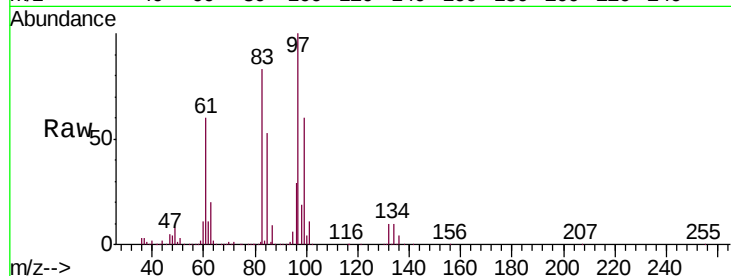




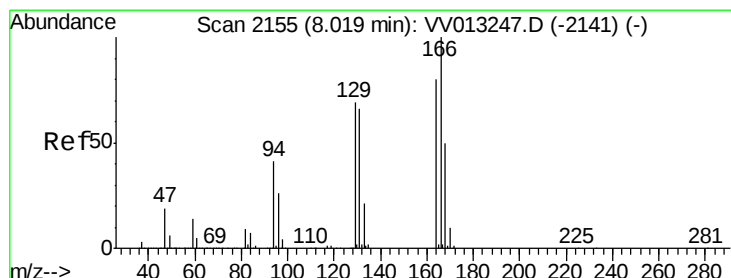
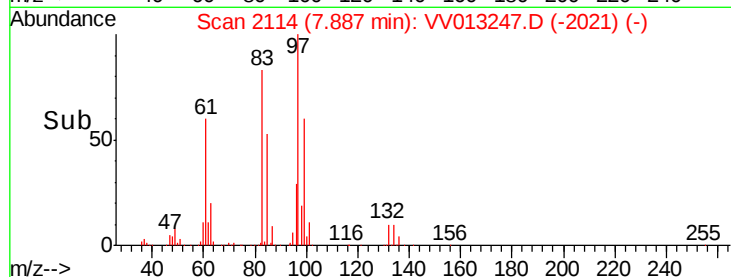
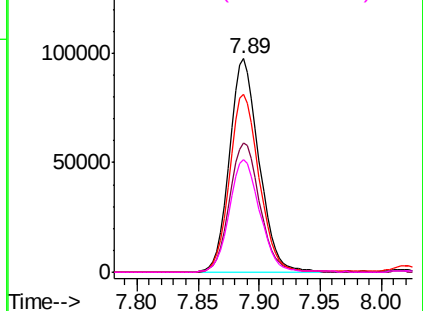
#45  
 1,1,2-Trichloroethane  
 Concen: 4.735 ug/L  
 RT: 7.89 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 165036 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 60.3  | 42.2  | 78.4   |
| 83       | 83.4  | 58.4  | 108.4  |
| 85       | 52.8  | 37.0  | 68.6   |

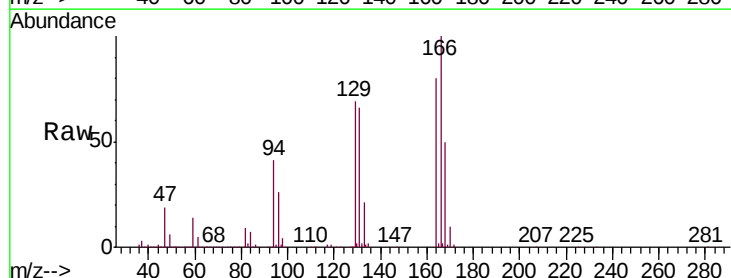


Abundance Ion 96.95 (96.65 to 97.65): VV013247.D (-2100) (-)  
 Ion 99.05 (98.75 to 99.75): VV013247.D (-2100) (-)  
 Ion 82.95 (82.65 to 83.65): VV013247.D (-2100) (-)  
 Ion 85.00 (84.70 to 85.70): VV013247.D (-2100) (-)

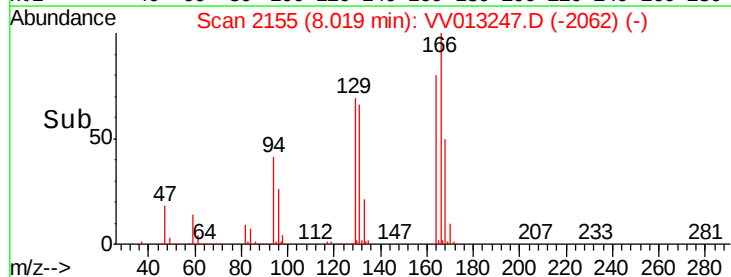
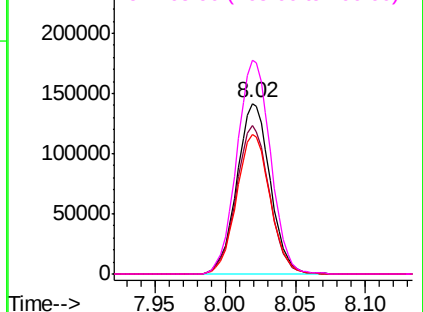


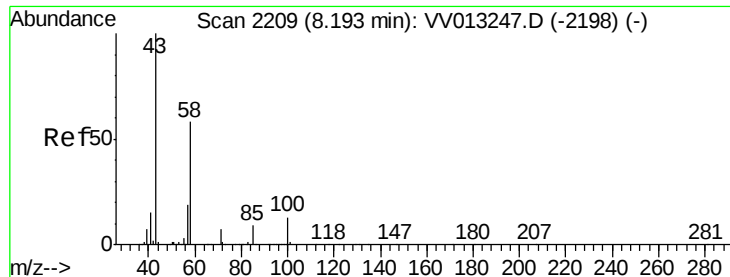
#47  
 Tetrachloroethene  
 Concen: 4.967 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 234319 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 87.1  | 61.0  | 113.2  |
| 131      | 82.2  | 57.5  | 106.9  |
| 166      | 125.4 | 87.8  | 163.0  |



Abundance Ion 163.90 (163.60 to 164.60): VV013247.D (-2141) (-)  
 Ion 128.95 (128.65 to 129.65): VV013247.D (-2141) (-)  
 Ion 130.95 (130.65 to 131.65): VV013247.D (-2141) (-)  
 Ion 165.90 (165.60 to 166.60): VV013247.D (-2141) (-)

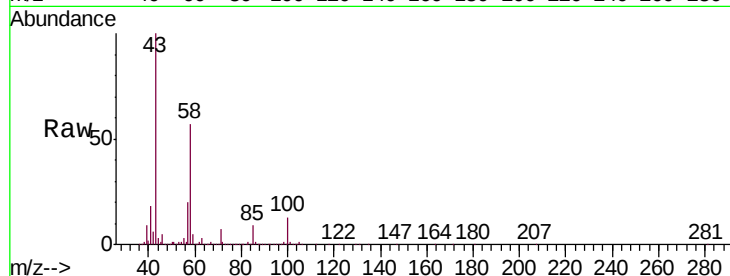




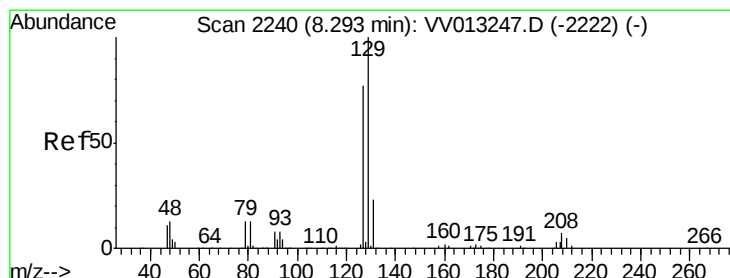
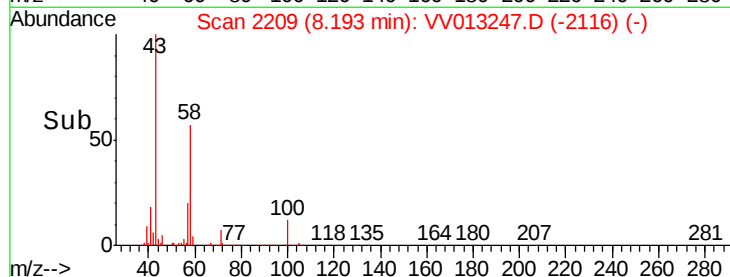
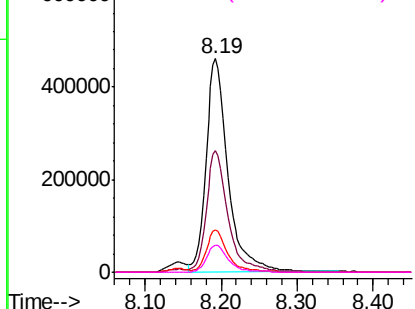
#48  
2-Hexanone  
Concen: 47.568 ug/L  
RT: 8.19 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00533

Tgt Ion: 43 Resp: 924775  
Ion Ratio Lower Upper  
43 100  
58 56.4 45.1 67.7  
57 19.4 15.5 23.3  
100 12.7 10.2 15.2

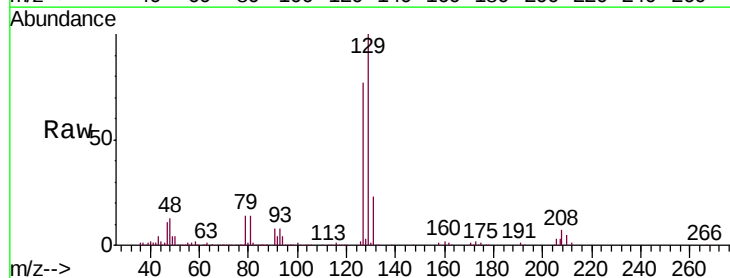


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

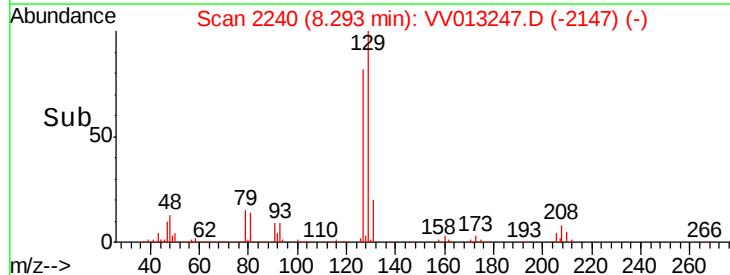
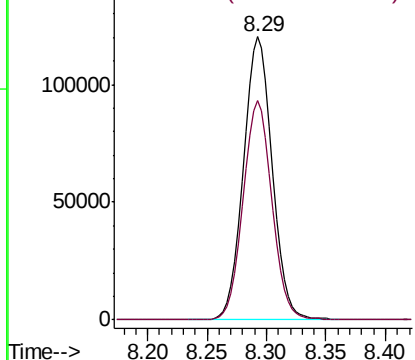


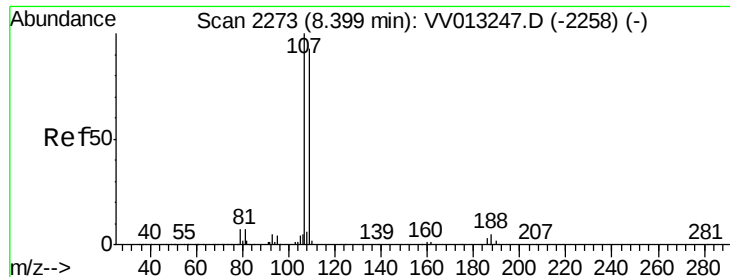
#49  
Dibromochloromethane  
Concen: 4.830 ug/L  
RT: 8.29 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VV013247.D  
Acq: 21 Oct 2019 16:35

Tgt Ion: 129 Resp: 201819  
Ion Ratio Lower Upper  
129 100  
127 77.3 54.1 100.5



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

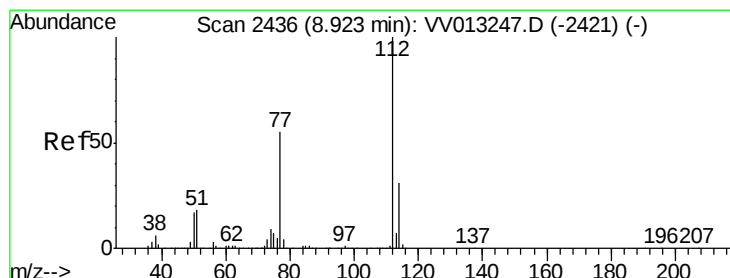
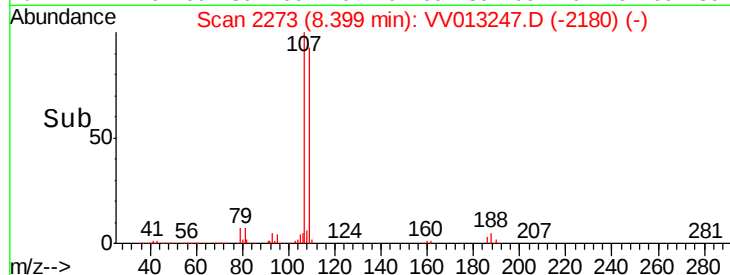
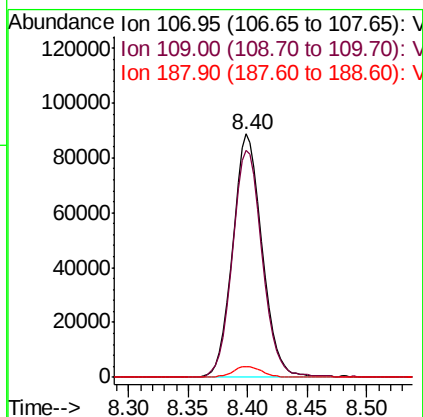
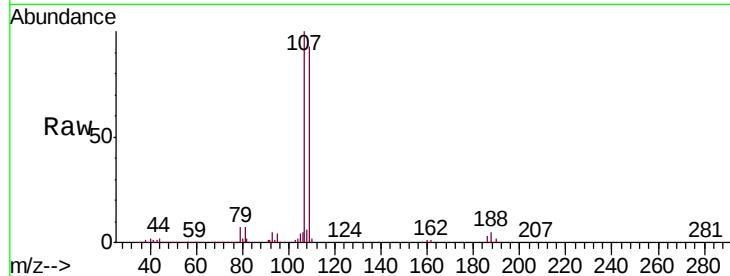




#50  
 1,2-Dibromoethane  
 Concen: 4.822 ug/L  
 RT: 8.40 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

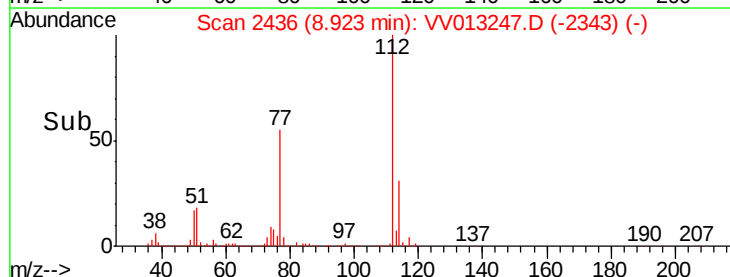
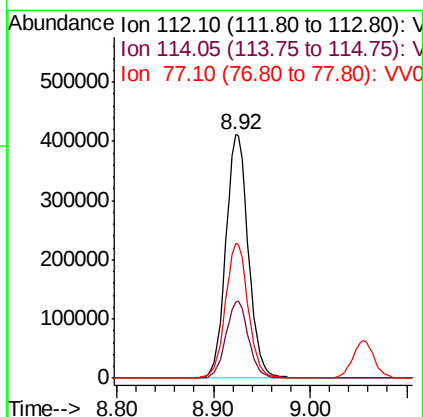
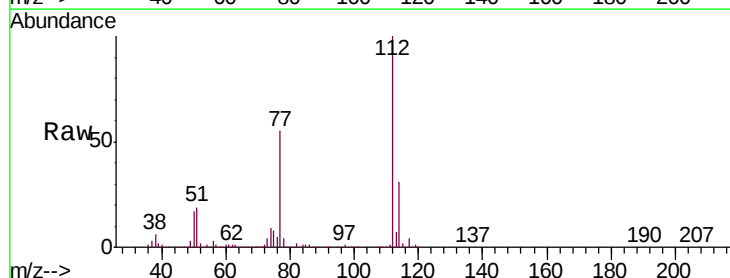
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

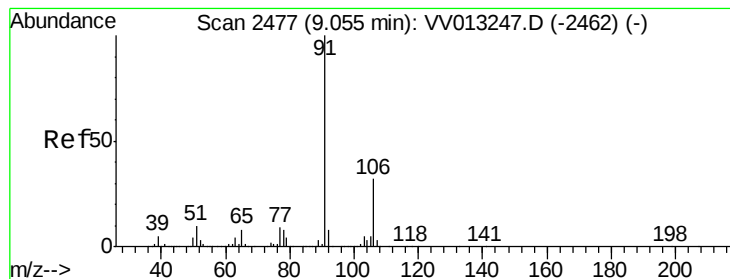
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 107     | 151913 |       |       |
| 109     | 93.5   | 65.5  | 121.6 |
| 188     | 4.6    | 3.7   | 5.5   |



#51  
 Chlorobenzene  
 Concen: 4.846 ug/L  
 RT: 8.92 min Scan# 2436  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 112     | 662872 |       |       |
| 114     | 31.2   | 21.8  | 40.6  |
| 77      | 55.5   | 44.4  | 66.6  |





#52

Ethylbenzene

Concen: 4.849 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

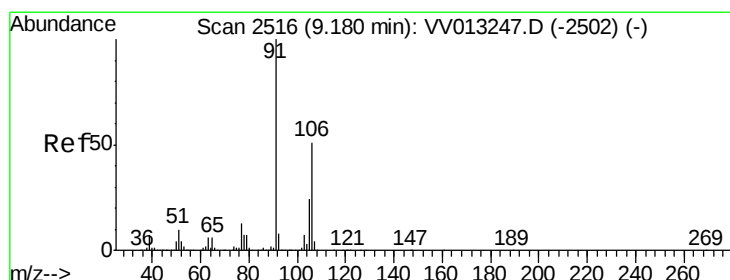
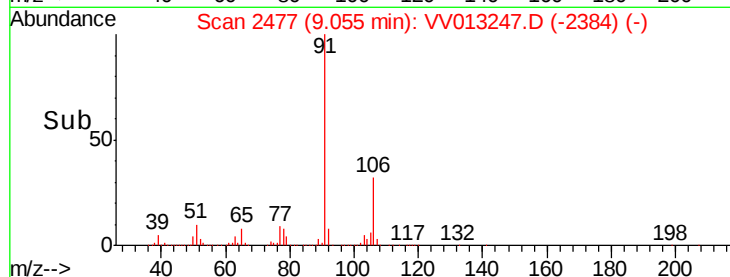
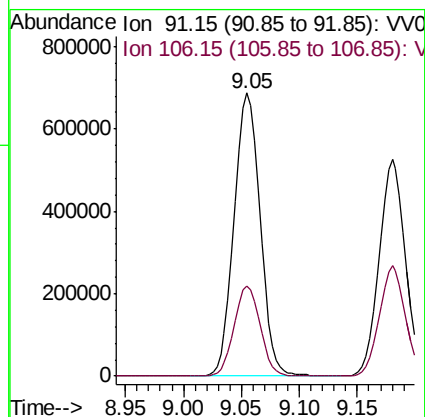
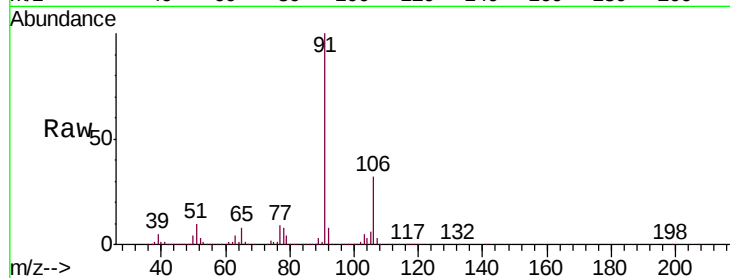
VSTD00533

Tgt Ion: 91 Resp: 1066342

Ion Ratio Lower Upper

91 100

106 32.0 22.4 41.6



#53

m,p-xylene

Concen: 5.061 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013247.D

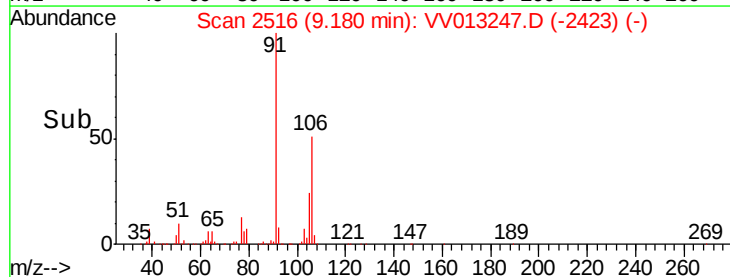
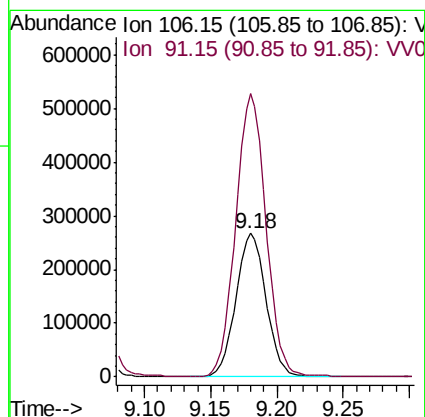
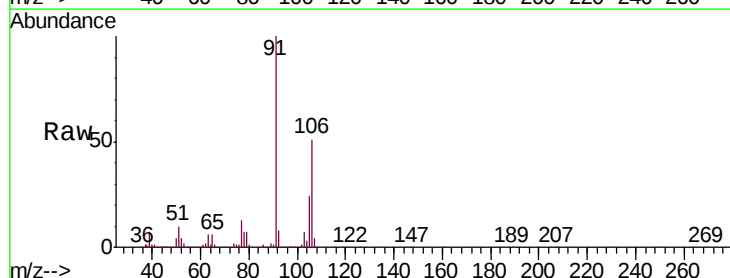
Acq: 21 Oct 2019 16:35

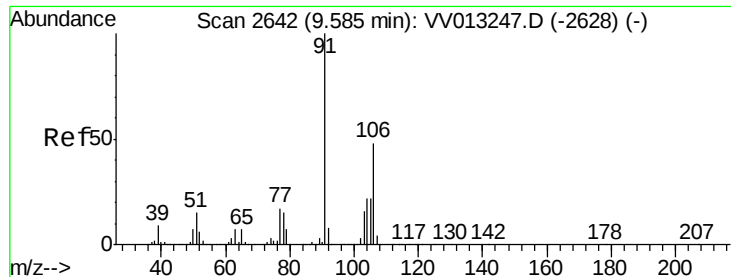
Tgt Ion: 106 Resp: 421480

Ion Ratio Lower Upper

106 100

91 196.8 137.8 255.8





#54

o-xylene

Concen: 4.873 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

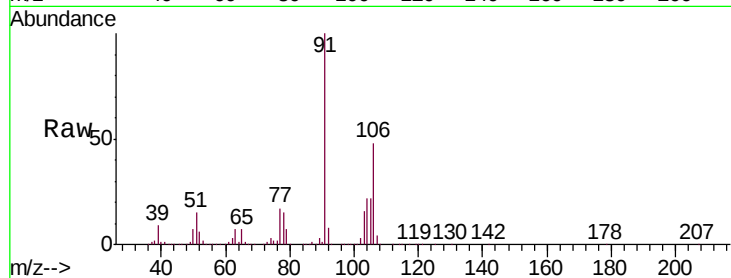
VSTD00533

Tgt Ion:106 Resp: 391365

Ion Ratio Lower Upper

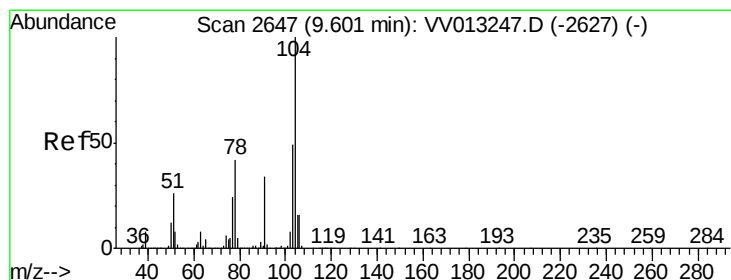
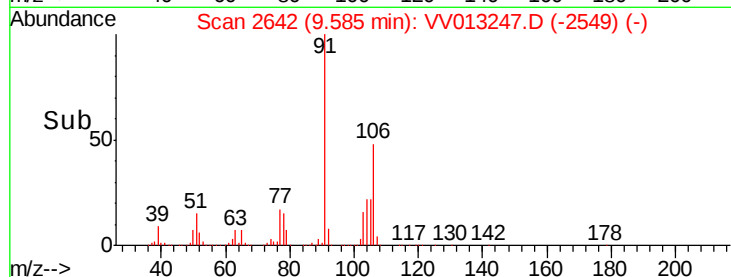
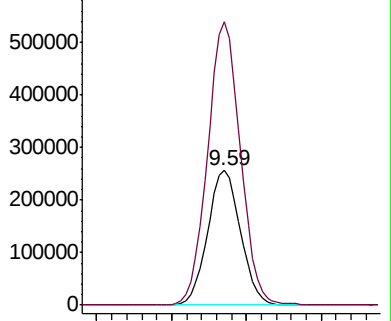
106 100

91 210.0 147.0 273.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.156 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013247.D

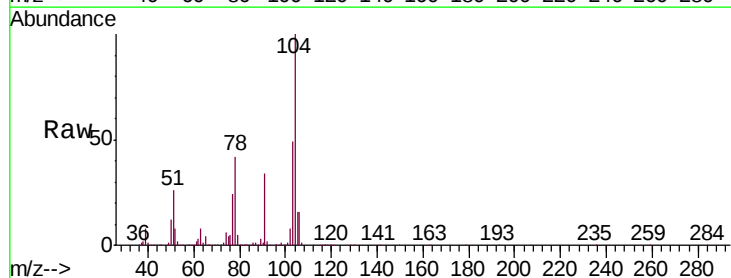
Acq: 21 Oct 2019 16:35

Tgt Ion:104 Resp: 696134

Ion Ratio Lower Upper

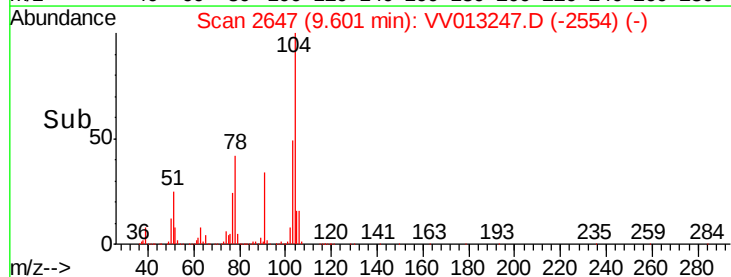
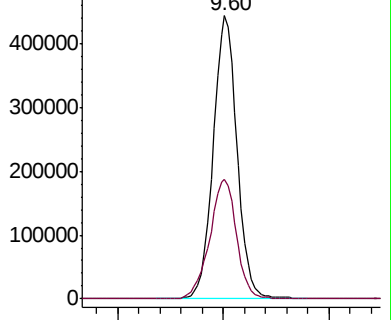
104 100

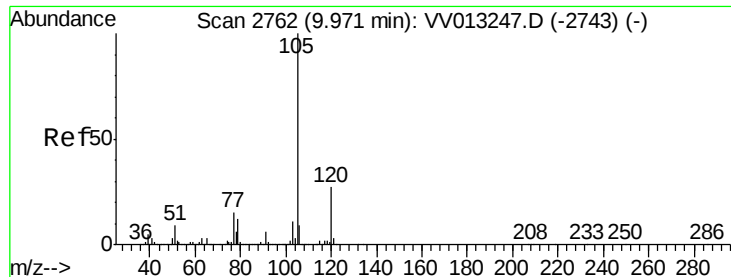
78 42.3 29.6 55.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.986 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

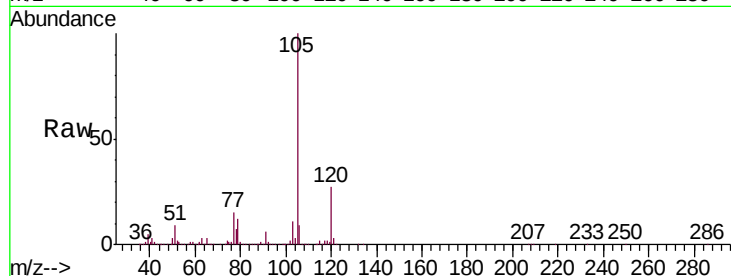
Tgt Ion: 105 Resp: 1056341

Ion Ratio Lower Upper

105 100

120 27.2 21.8 32.6

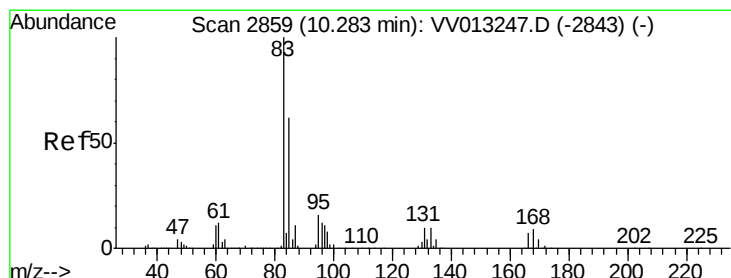
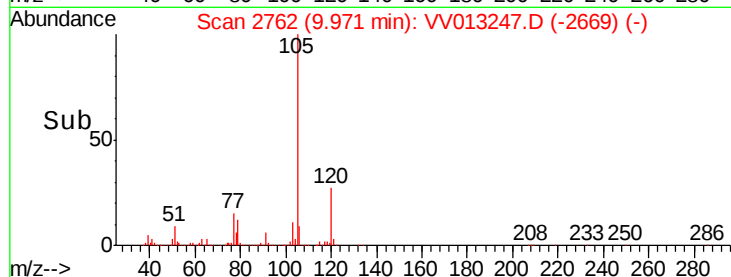
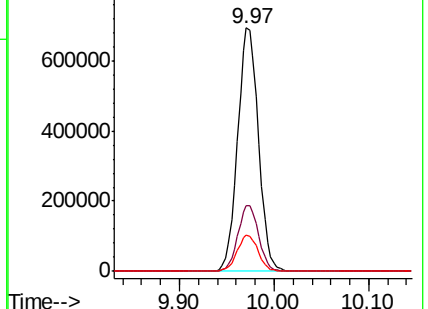
77 15.0 12.0 18.0



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: 4.626 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

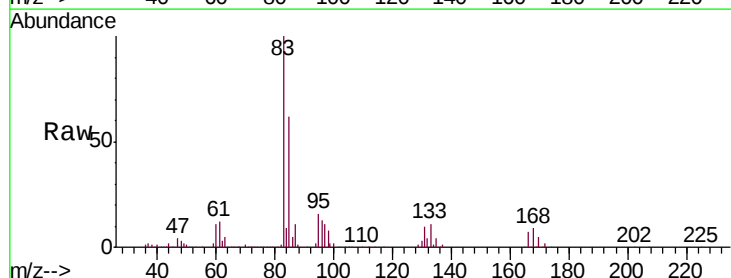
Tgt Ion: 83 Resp: 186348

Ion Ratio Lower Upper

83 100

85 61.8 43.3 80.3

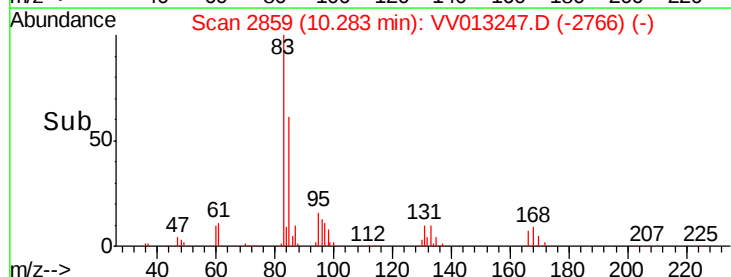
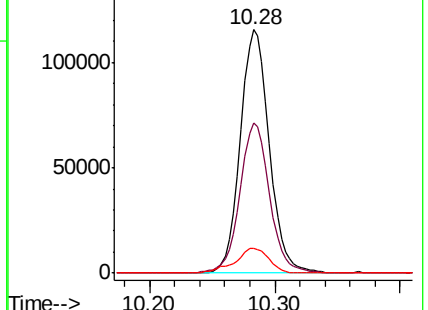
131 10.4 8.3 12.5

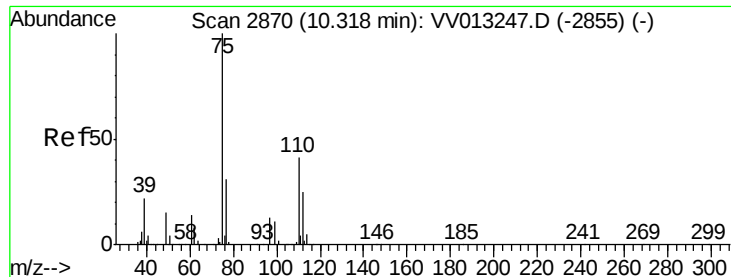


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.667 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

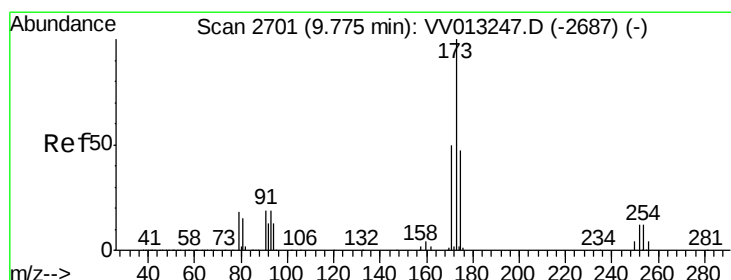
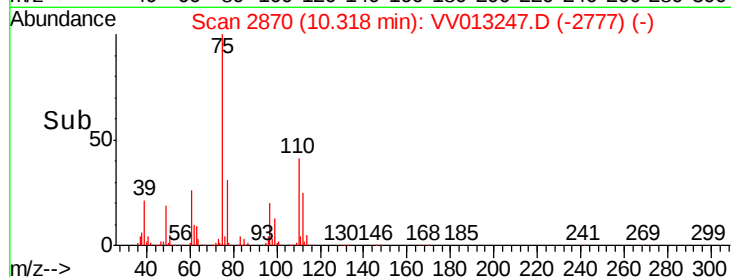
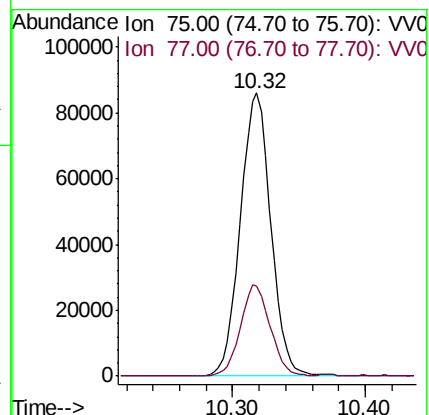
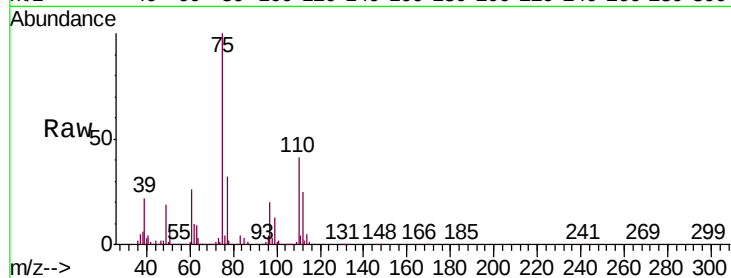
VSTD00533

Tgt Ion: 75 Resp: 136775

Ion Ratio Lower Upper

75 100

77 30.9 24.7 37.1



#61

Bromoform

Concen: 4.372 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

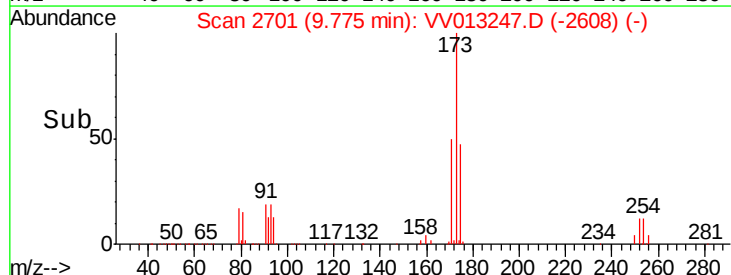
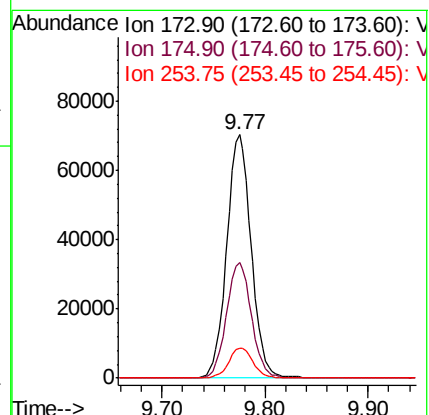
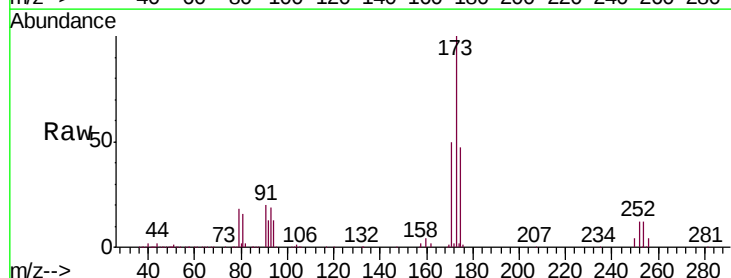
Tgt Ion: 173 Resp: 116082

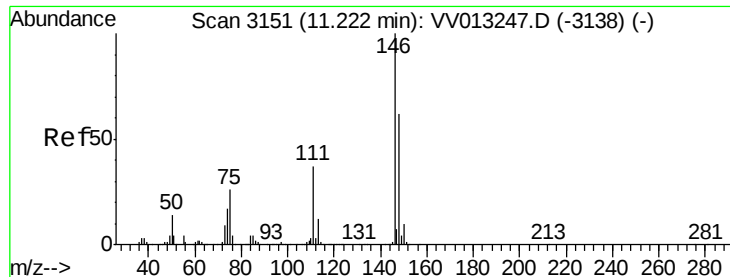
Ion Ratio Lower Upper

173 100

175 48.5 38.8 58.2

254 12.3 9.8 14.8





#62

1,3-Dichlorobenzene

Concen: 4.748 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

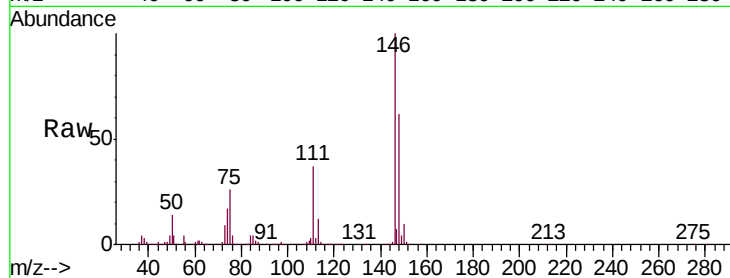
Tgt Ion:146 Resp: 557335

Ion Ratio Lower Upper

146 100

111 36.8 25.8 47.8

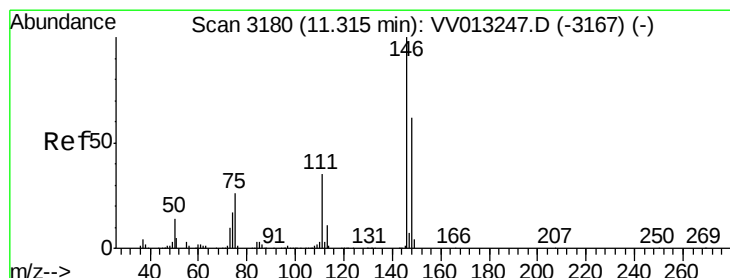
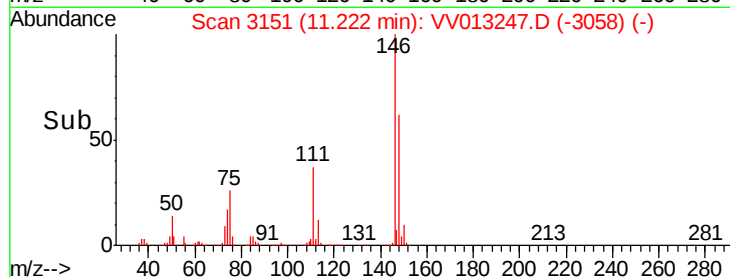
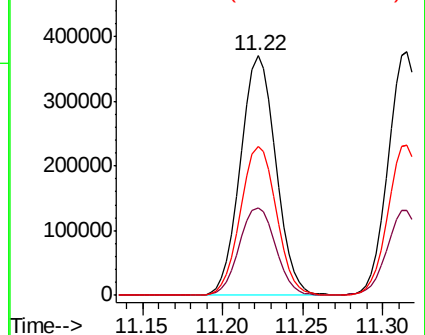
148 62.5 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.791 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

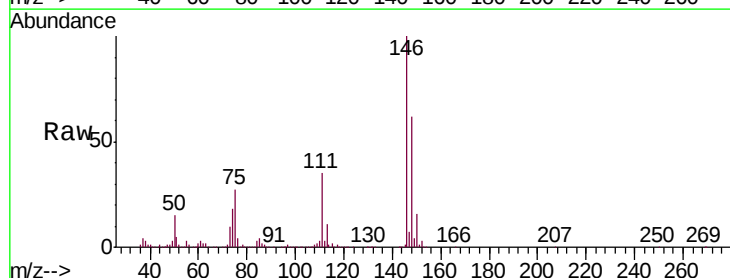
Tgt Ion:146 Resp: 562369

Ion Ratio Lower Upper

146 100

111 35.1 24.6 45.6

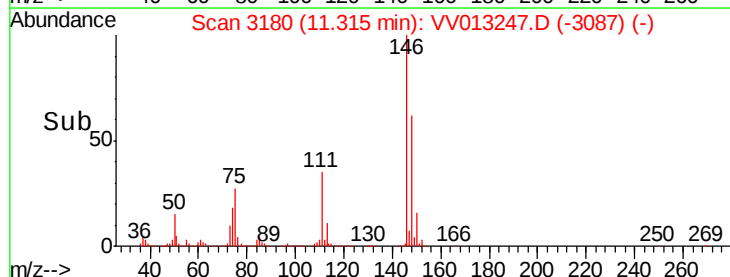
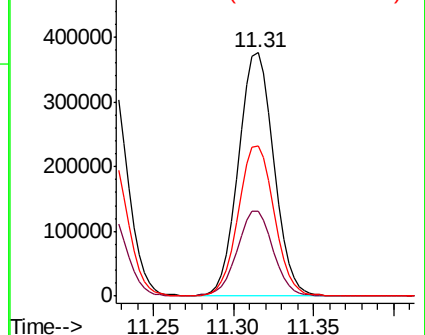
148 61.9 43.3 80.5

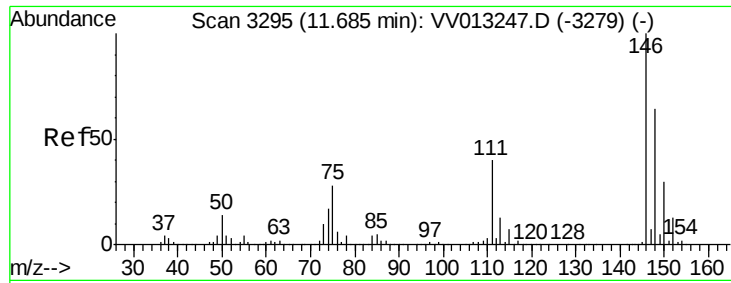


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

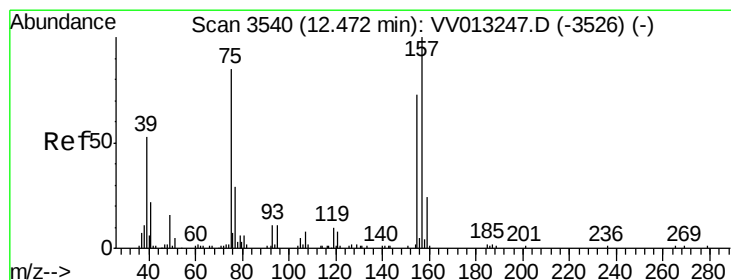
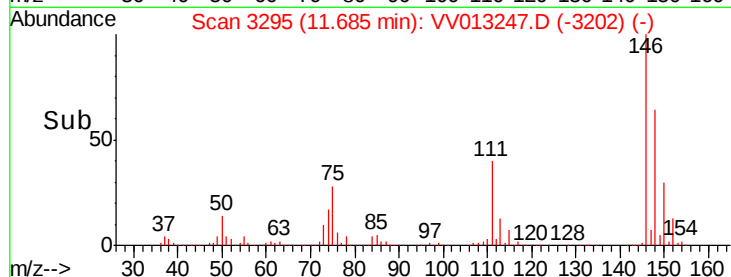
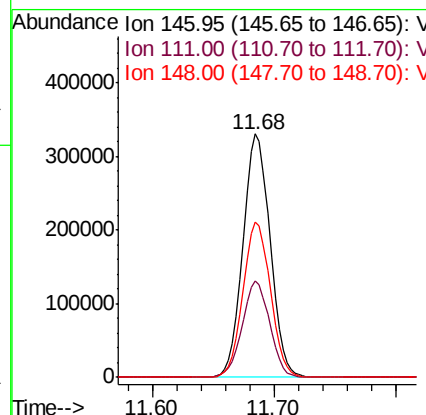
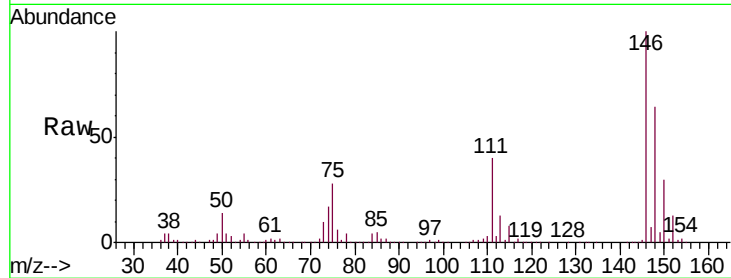




#65  
 1,2-Dichlorobenzene  
 Concen: 4.569 ug/L  
 RT: 11.68 min Scan# 3295  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

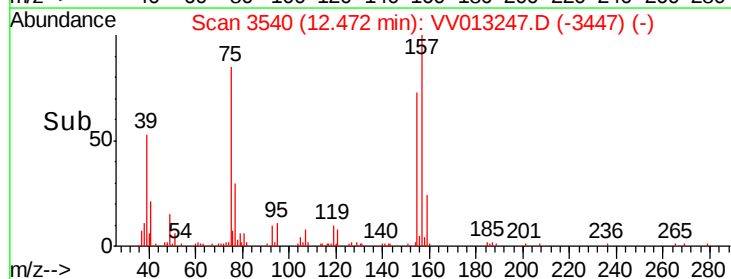
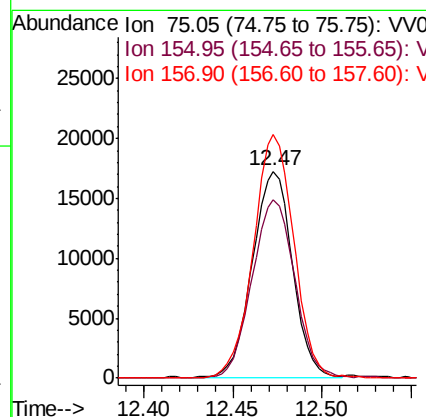
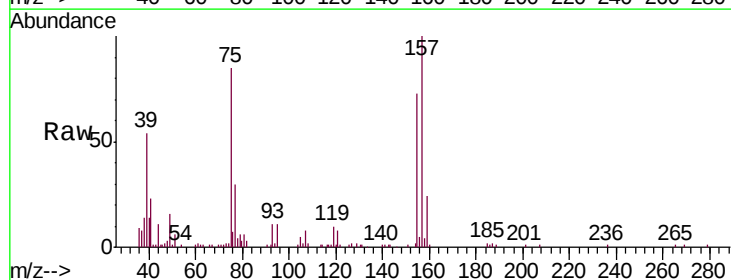
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

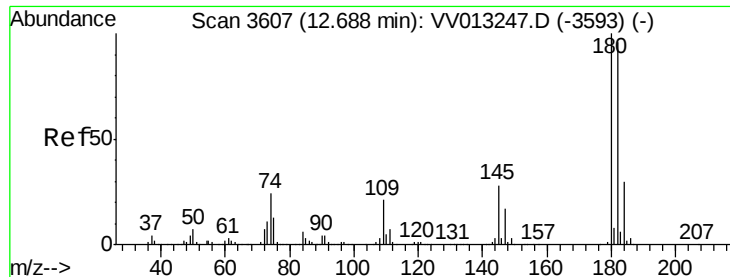
Tgt Ion: 146 Resp: 506870  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 31.8 47.6  
 148 63.8 51.0 76.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 3.948 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

Tgt Ion: 75 Resp: 27335  
 Ion Ratio Lower Upper  
 75 100  
 155 86.6 69.3 103.9  
 157 117.9 94.3 141.5

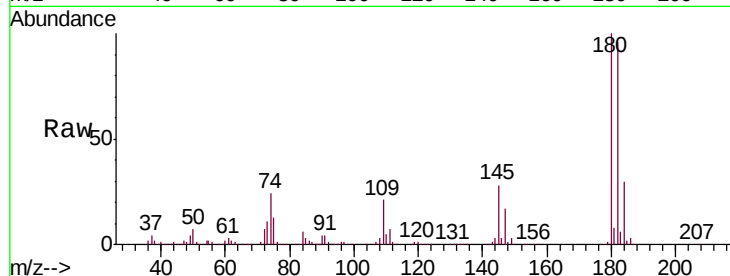




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.563 ug/L  
 RT: 12.69 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00533

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.2  | 76.2  | 114.2 |
| 184     | 30.0  | 24.0  | 36.0  |
| 145     | 27.3  | 21.8  | 32.8  |



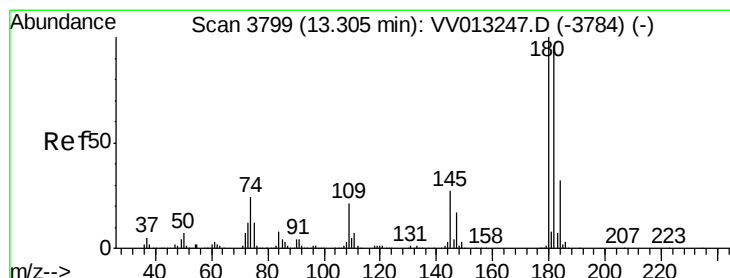
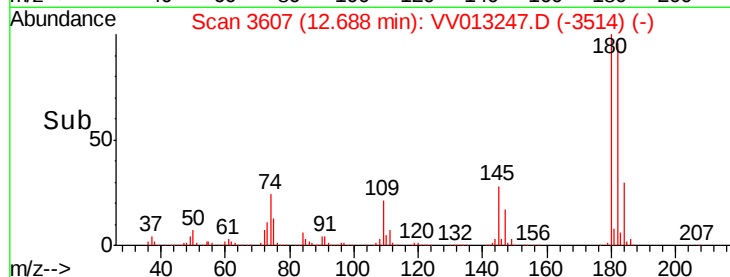
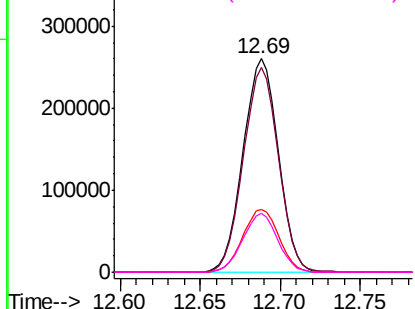
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

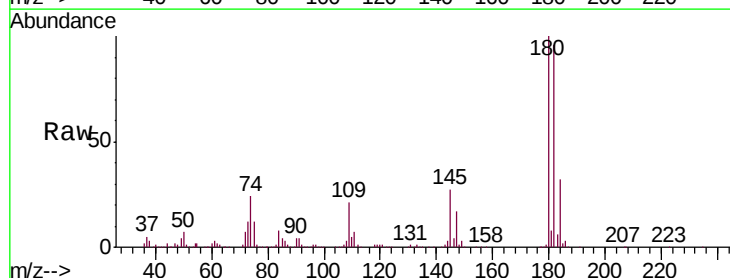
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.356 ug/L  
 RT: 13.31 min Scan# 3799  
 Delta R.T. 0.00 min  
 Lab File: VV013247.D  
 Acq: 21 Oct 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.9  | 76.7  | 115.1 |
| 145     | 27.6  | 22.1  | 33.1  |

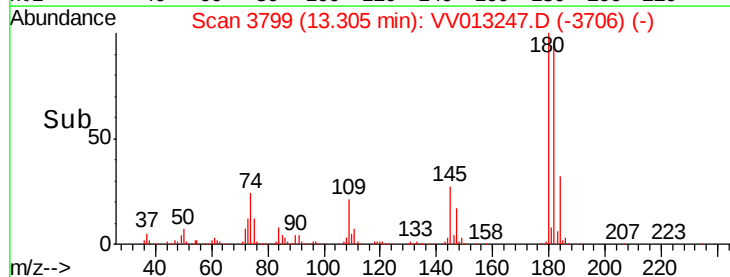
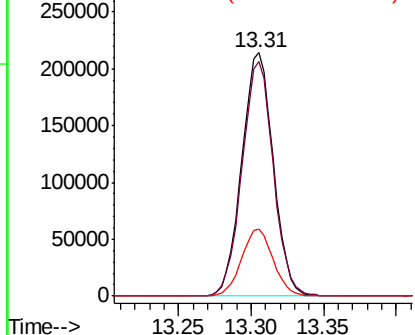


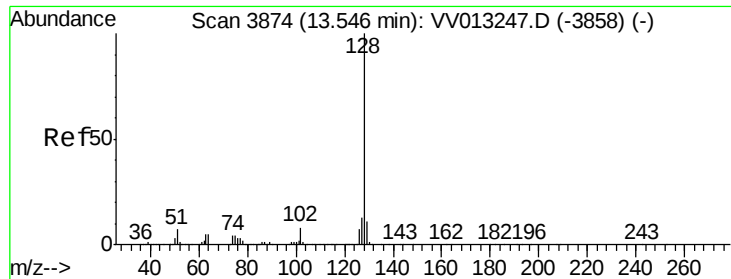
Abundance

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: 3.843 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00533

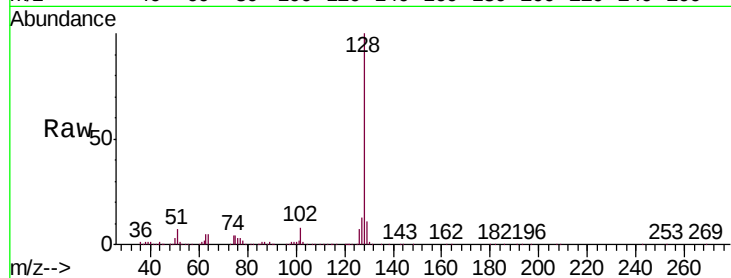
Tgt Ion:128 Resp: 435648

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

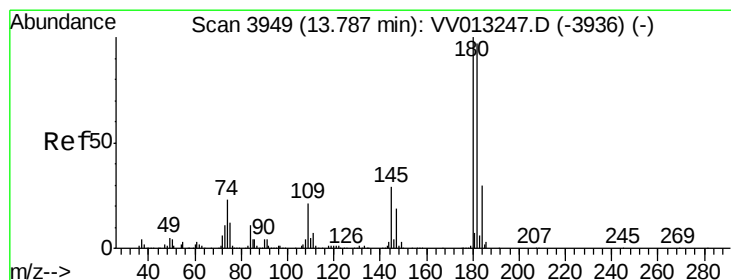
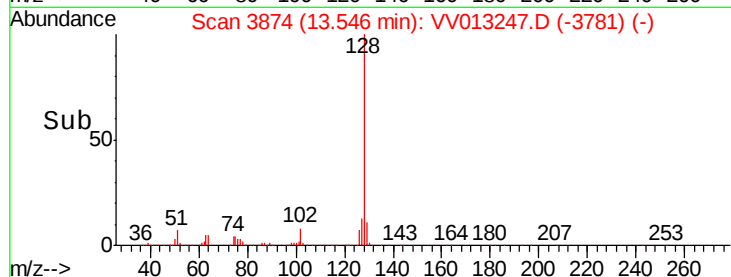
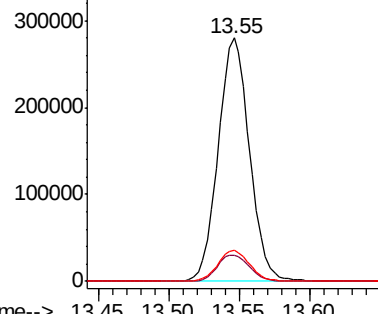
127 13.0 10.4 15.6



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: 4.297 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013247.D

Acq: 21 Oct 2019 16:35

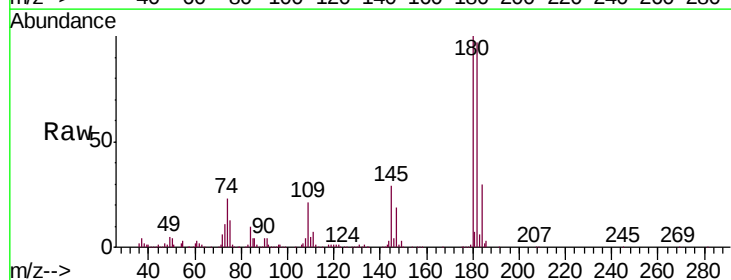
Tgt Ion:180 Resp: 317027

Ion Ratio Lower Upper

180 100

182 95.6 76.5 114.7

145 29.4 23.5 35.3



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

