

Data File : VV014274.D  
Acq On : 10 Jan 2020 17:11  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00553

Quant Time: Jan 11 00:04:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 11 00:01:14 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1003951  | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 919660   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 424690   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 299213   | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.20%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 241705   | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 474698   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 875728   | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.80% |
| 24) Chloroform-d               | 4.40   | 84    | 655729   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 321257   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 1333952  | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 421745   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.20%  |
| 41) Toluene-d8                 | 7.36   | 98    | 1203013  | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 177304   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.20%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 775369   | 48.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.30%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 290345   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 393888   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 356137 | 4.705 ug/L   | 98     |
| 3) Chloromethane               | 1.26 | 50  | 333994 | 4.439 ug/L   | 99     |
| 5) Vinyl chloride              | 1.33 | 62  | 314421 | 4.475 ug/L   | 97     |
| 6) Bromomethane                | 1.54 | 94  | 176985 | 4.440 ug/L   | 98     |
| 8) Chloroethane                | 1.60 | 64  | 169674 | 4.298 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 395581 | 4.769 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 220097 | 4.899 ug/L   | 94     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 202952 | 4.525 ug/L   | 99     |
| 13) Acetone                    | 2.23 | 43  | 386749 | 33.282 ug/L  | 93     |
| 14) Carbon disulfide           | 2.32 | 76  | 912992 | 4.587 ug/L   | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 117317 | 4.337 ug/L   | 95     |
| 16) Methylene chloride         | 2.54 | 84  | 313104 | 4.288 ug/L   | 93     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 741932 | 4.470 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 307056 | 4.554 ug/L   | 94     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 605605 | 4.583 ug/L   | 98     |
| 21) 2-Butanone                 | 4.04 | 43  | 757903 | 43.480 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 342111 | 4.629 ug/L # | 95     |

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Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00553

Quant Time: Jan 11 00:04:38 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 11 00:01:14 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 127755   | 4.547  | ug/L  | 91       |
| 25) Chloroform                 | 4.43  | 83   | 576655   | 4.558  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 342542   | 4.526  | ug/L  | 95       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 518266   | 4.734  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 596483   | 4.935  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 439566   | 4.689  | ug/L  | 100      |
| 33) Benzene                    | 5.14  | 78   | 1314031  | 4.639  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 336840   | 4.628  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.17  | 83   | 598477   | 5.029  | ug/L  | 97       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 321639   | 4.499  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.55  | 83   | 414569   | 4.497  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 516928   | 4.466  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 1978189  | 43.897 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 1382218  | 4.623  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 390627   | 4.395  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 206451   | 4.521  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 236214   | 4.750  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.18  | 43   | 1389406  | 44.575 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 257700   | 4.463  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 196719   | 4.448  | ug/L  | 95       |
| 51) Chlorobenzene              | 8.92  | 112  | 844938   | 4.595  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.05  | 91   | 1574112  | 4.706  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 579044   | 4.693  | ug/L  | 100      |
| 54) o-xylene                   | 9.58  | 106  | 558607   | 4.604  | ug/L  | 93       |
| 55) Styrene                    | 9.60  | 104  | 934979   | 4.549  | ug/L  | 96       |
| 56) Isopropylbenzene           | 9.97  | 105  | 1513493  | 4.782  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 252664   | 4.487  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 189644   | 4.452  | ug/L  | 97       |
| 61) Bromoform                  | 9.77  | 173  | 128222   | 4.454  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 625767   | 4.713  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 619149   | 4.690  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 553597   | 4.617  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 45964    | 4.171  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 446638   | 4.626  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.30 | 180  | 379367   | 4.480  | ug/L  | 97       |
| 69) Naphthalene                | 13.54 | 128  | 729282   | 4.239  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 334843   | 4.493  | ug/L  | 99       |

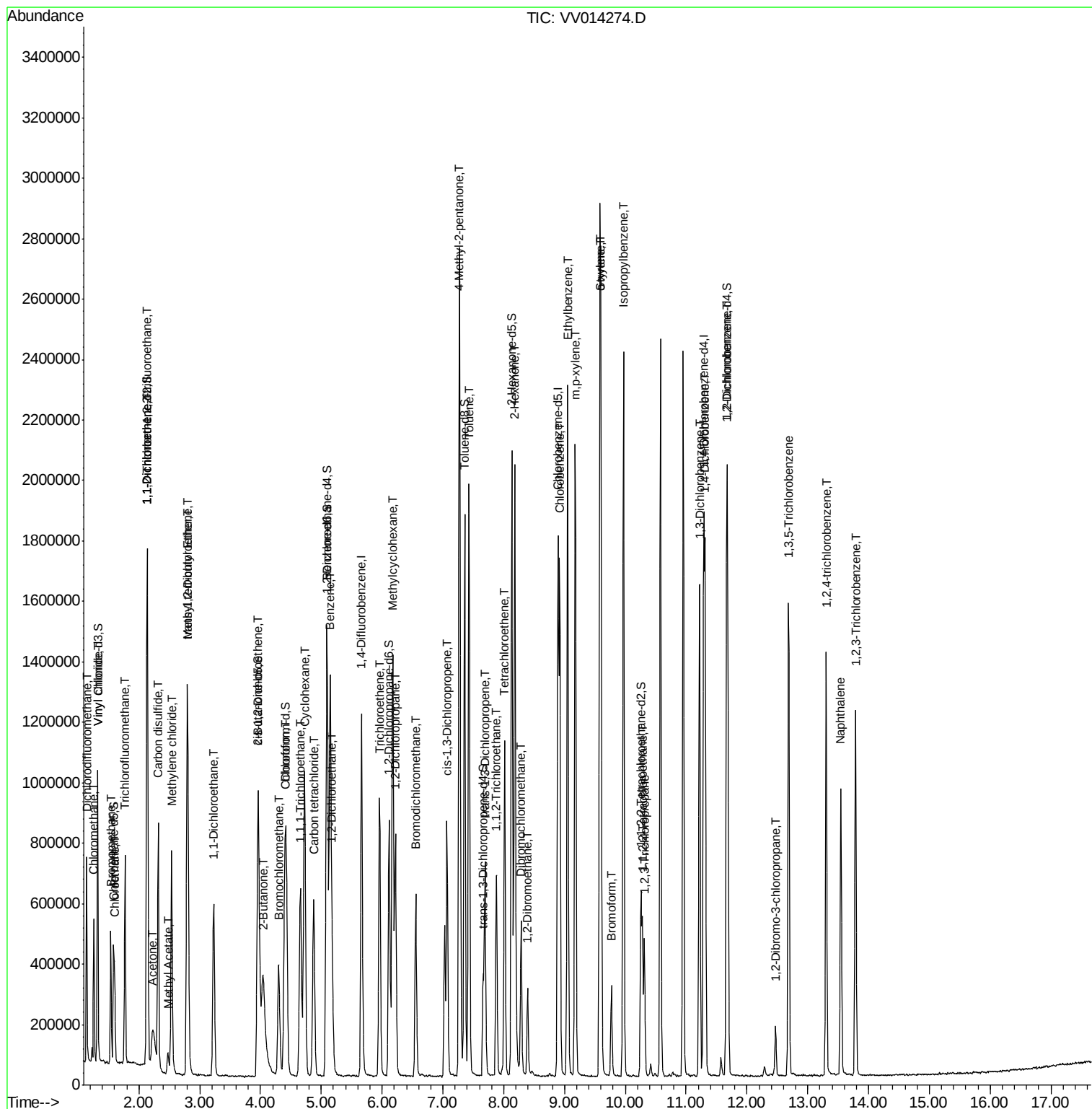
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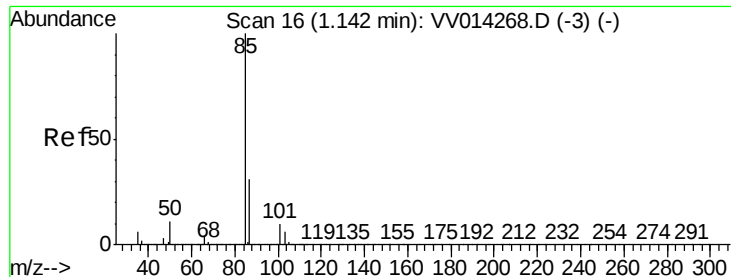
Data File : VV014274.D

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Operator    : SY/MD
Sample      : VSTDCCC005EC
Misc       : 25.0mL/MSV0A_V/WATER
ALS Vial    : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00553

Quant Time: Jan 11 00:04:38 2020  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 11 00:01:14 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.705 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

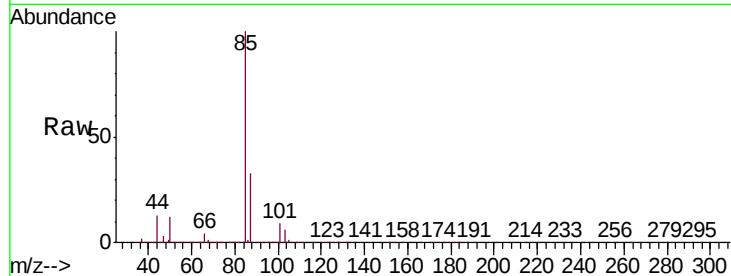
VSTD00553

Tgt Ion: 85 Resp: 356137

Ion Ratio Lower Upper

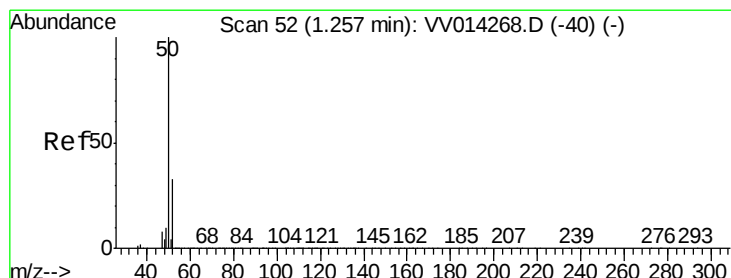
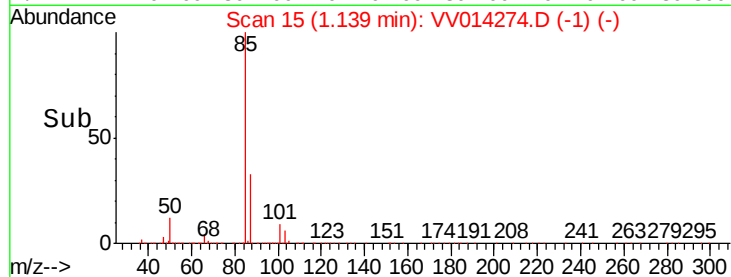
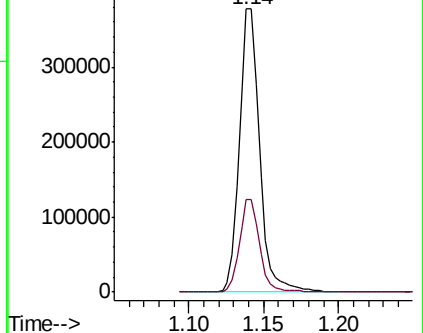
85 100

87 32.4 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.439 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014274.D

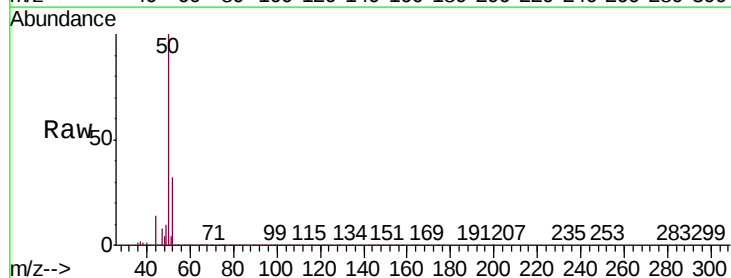
Acq: 10 Jan 2020 17:11

Tgt Ion: 50 Resp: 333994

Ion Ratio Lower Upper

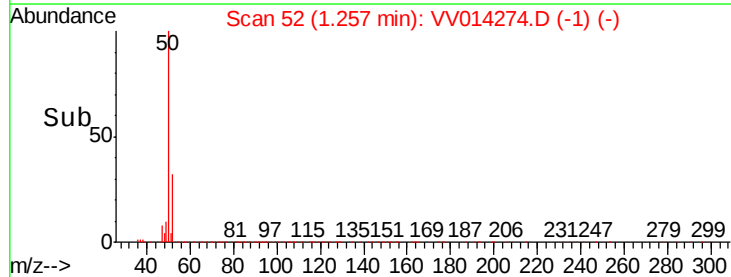
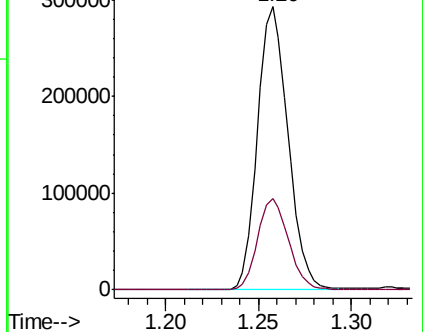
50 100

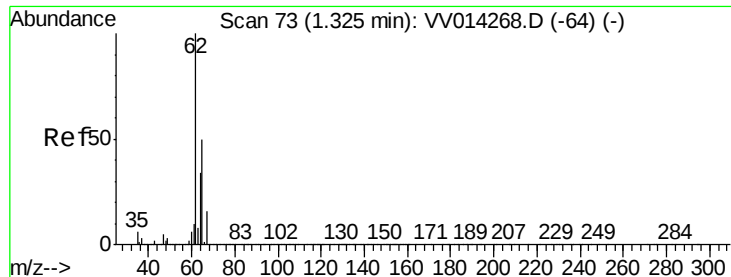
52 32.5 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.475 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

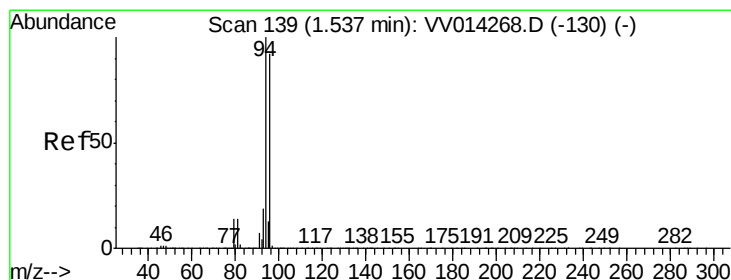
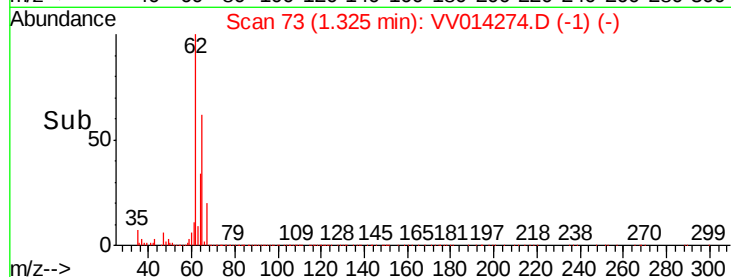
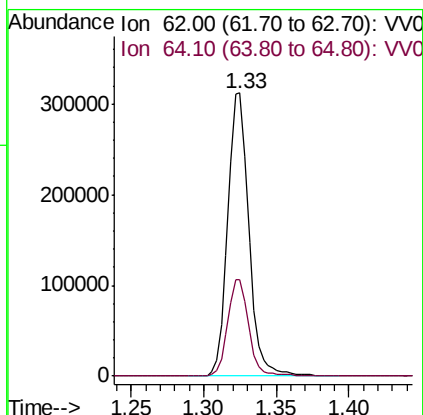
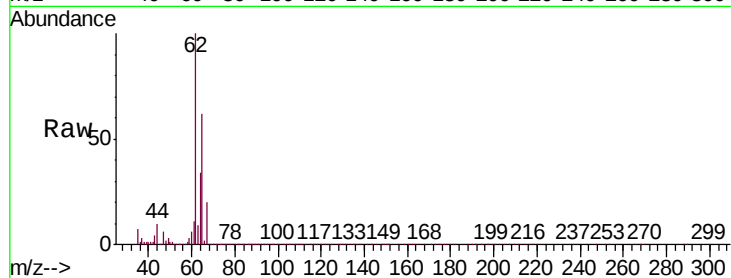
VSTD00553

Tgt Ion: 62 Resp: 314421

Ion Ratio Lower Upper

62 100

64 34.2 23.0 42.6



#6

Bromomethane

Concen: 4.440 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014274.D

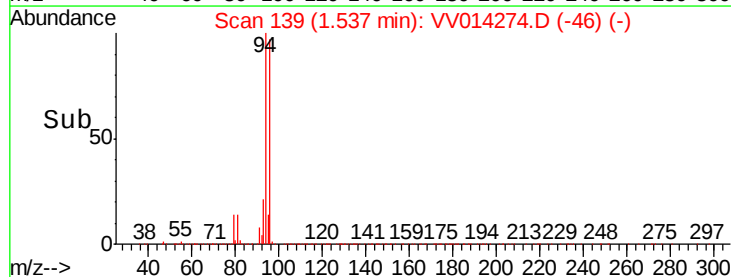
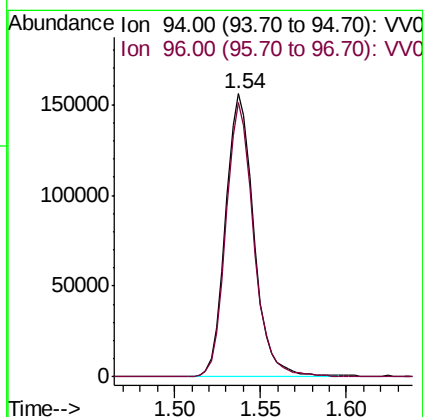
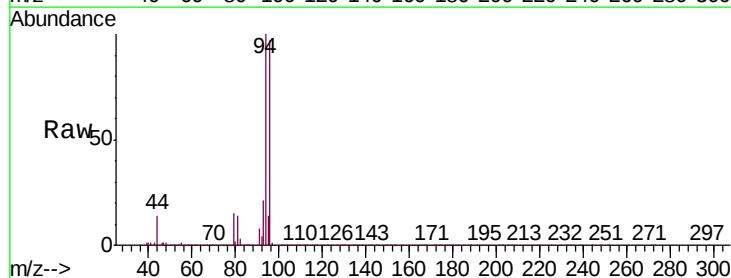
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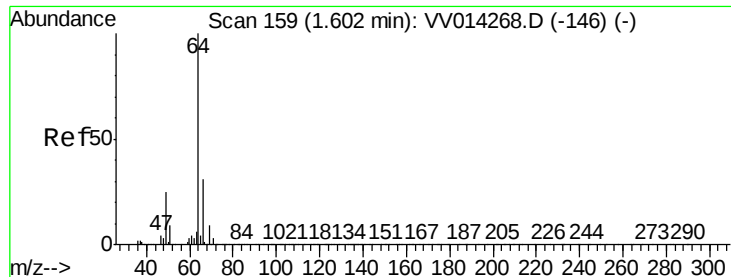
Tgt Ion: 94 Resp: 176985

Ion Ratio Lower Upper

94 100

96 97.1 66.9 124.3

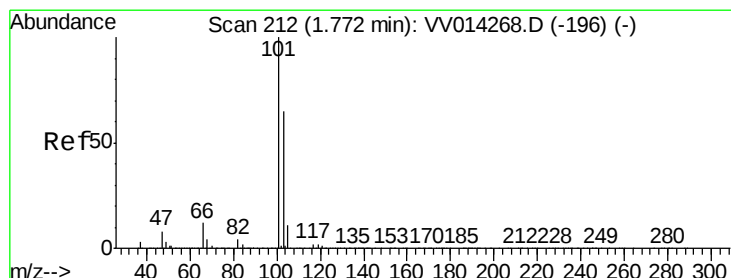
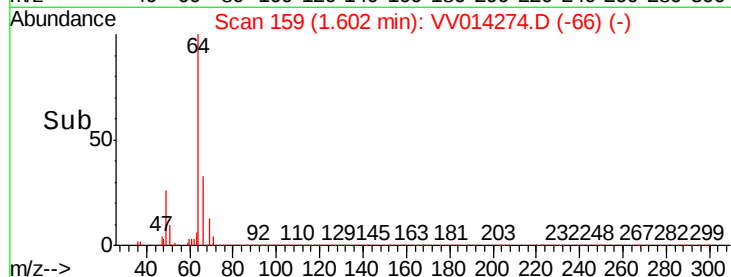
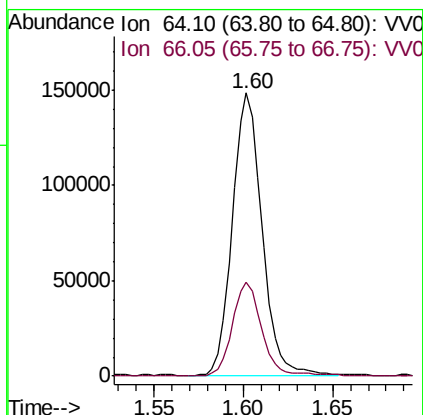
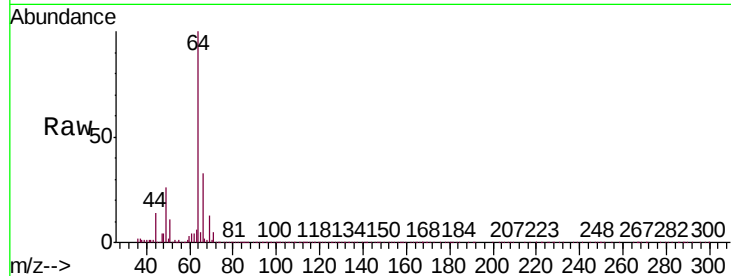




#8  
Chloroethane  
Concen: 4.298 ug/L  
RT: 1.60 min Scan# 159  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

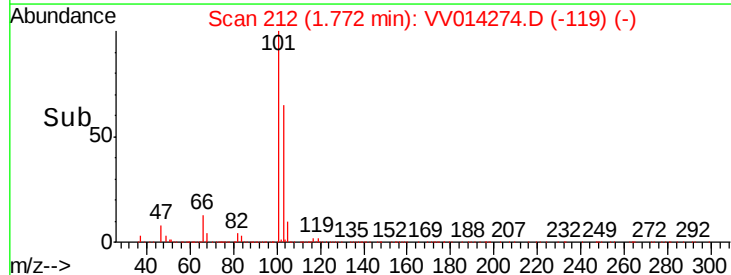
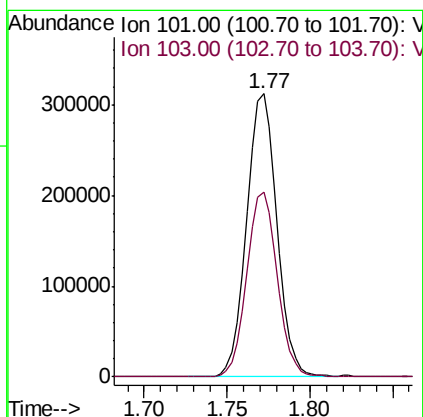
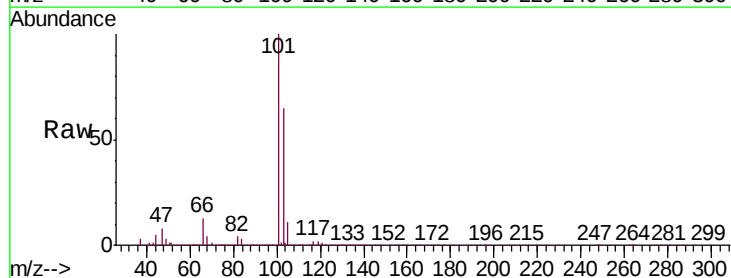
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VSTD00553

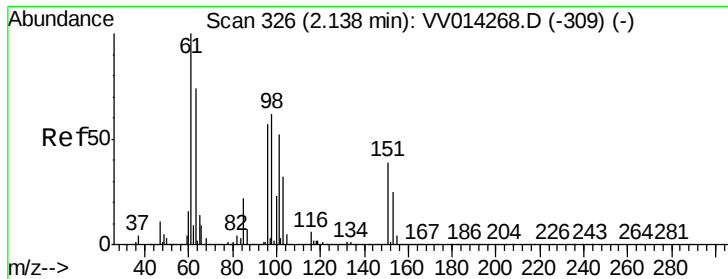
Tgt Ion: 64 Resp: 169674  
Ion Ratio Lower Upper  
64 100  
66 33.3 21.8 40.6



#9  
Trichlorofluoromethane  
Concen: 4.769 ug/L  
RT: 1.77 min Scan# 212  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

Tgt Ion: 101 Resp: 395581  
Ion Ratio Lower Upper  
101 100  
103 65.6 52.6 78.8





#10

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

Concen: 4.899 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00553

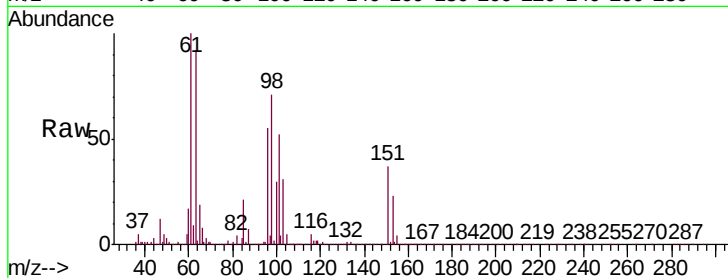
Tgt Ion: 101 Resp: 220097

Ion Ratio Lower Upper

101 100

85 40.7 34.9 52.3

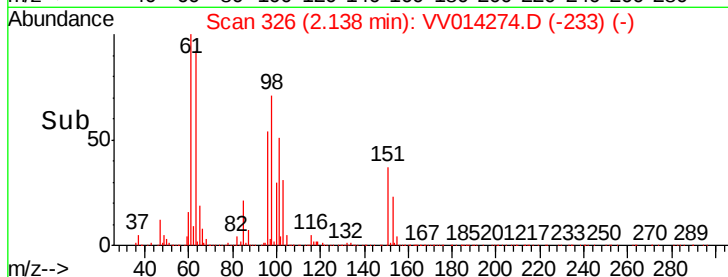
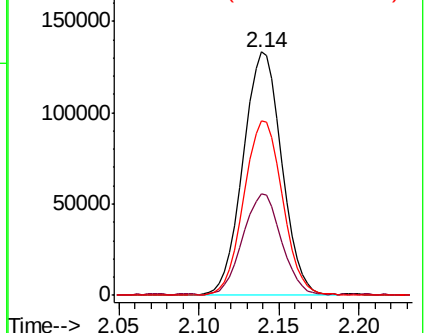
151 72.1 62.5 93.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.525 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

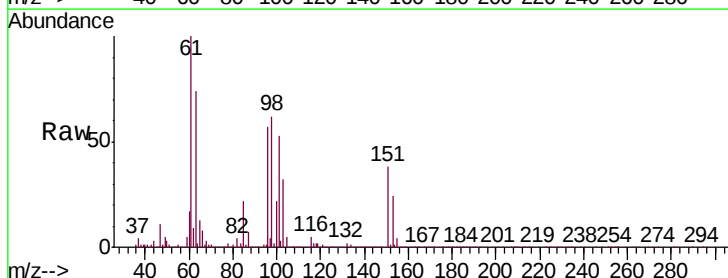
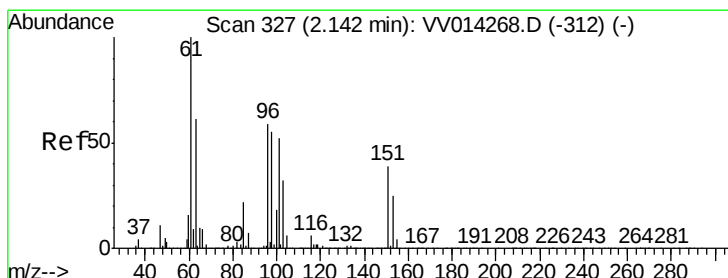
Tgt Ion: 96 Resp: 202952

Ion Ratio Lower Upper

96 100

61 176.2 121.5 225.7

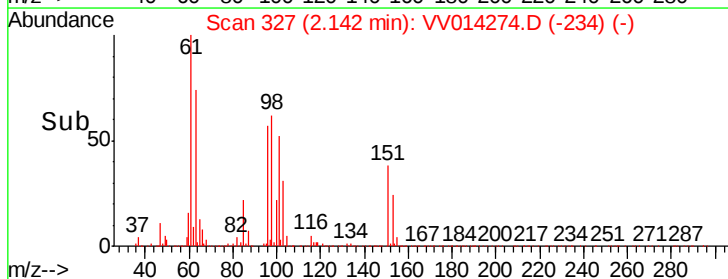
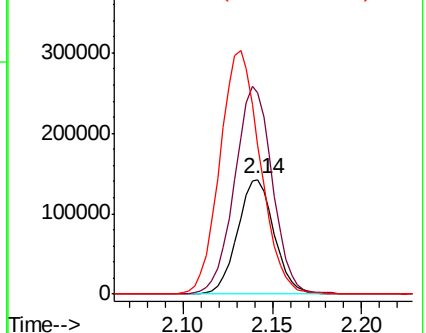
63 130.1 90.3 167.7

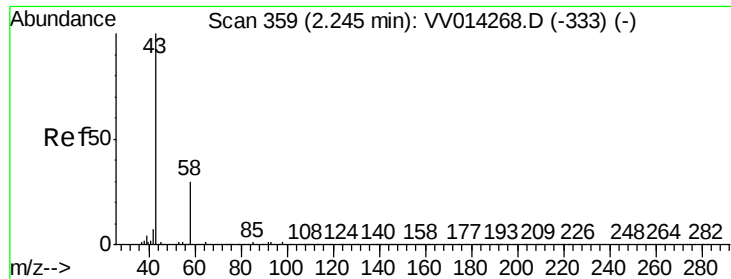


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 33.282 ug/L

RT: 2.23 min Scan# 355

Delta R.T. -0.01 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

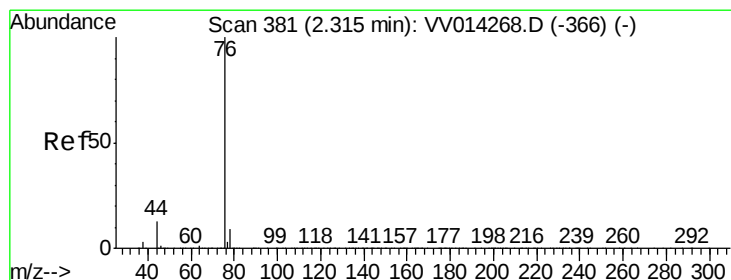
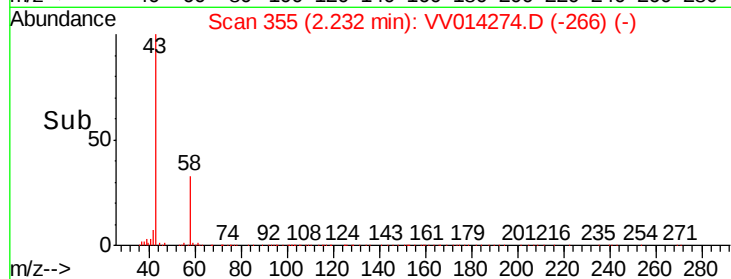
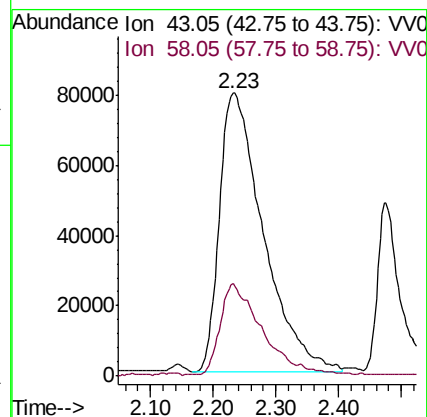
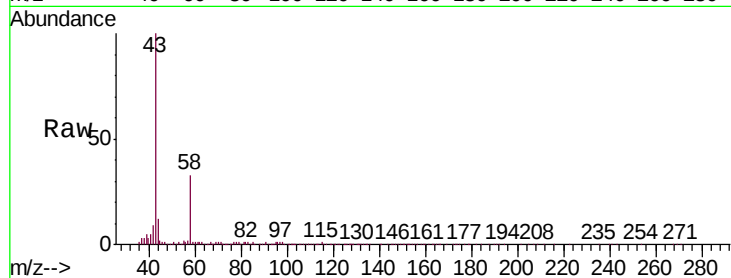
VSTD00553

Tgt Ion: 43 Resp: 386749

Ion Ratio Lower Upper

43 100

58 29.0 0.0 66.0



#14

Carbon disulfide

Concen: 4.587 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014274.D

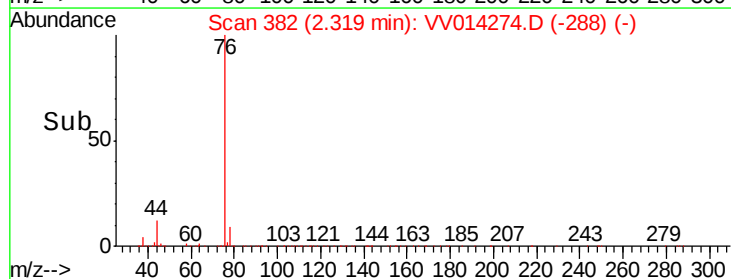
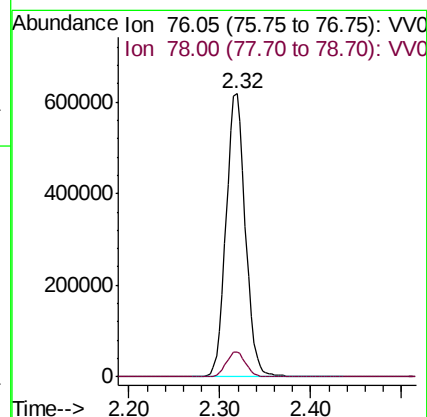
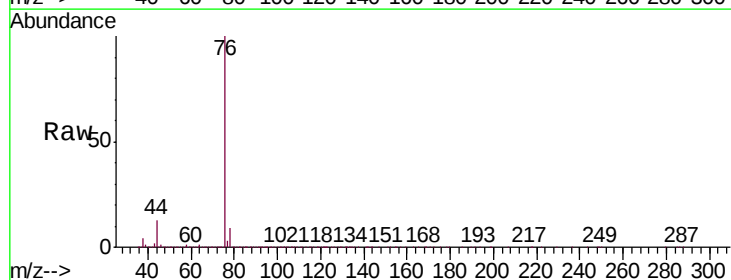
Acq: 10 Jan 2020 17:11

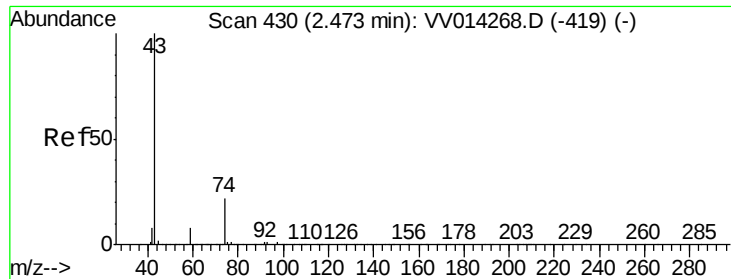
Tgt Ion: 76 Resp: 912992

Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3

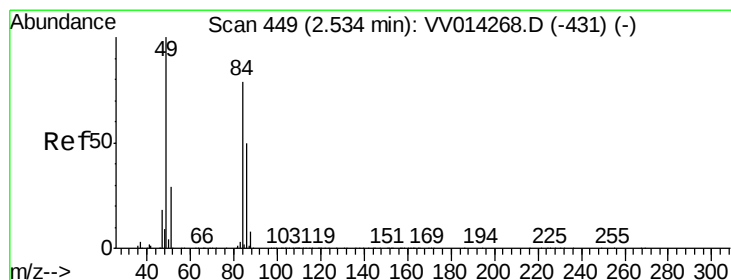
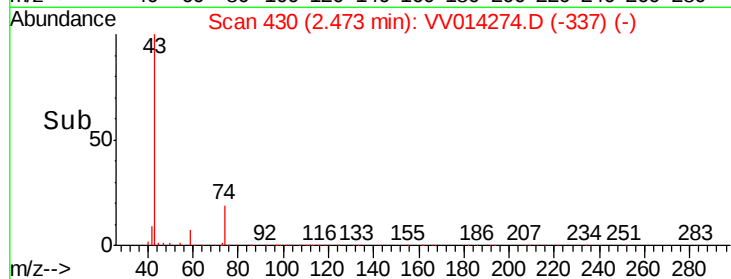
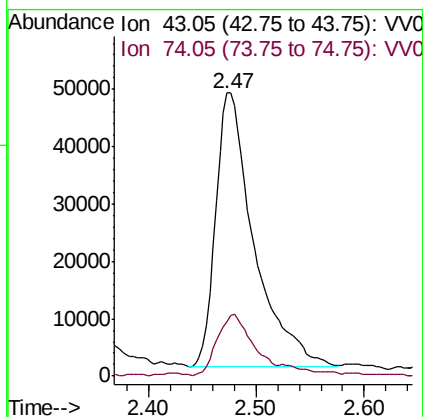
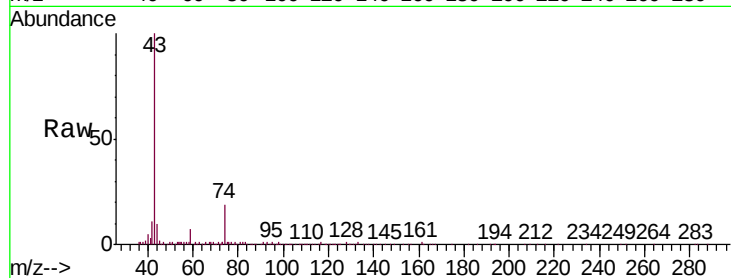




#15  
Methyl Acetate  
Concen: 4.337 ug/L  
RT: 2.47 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

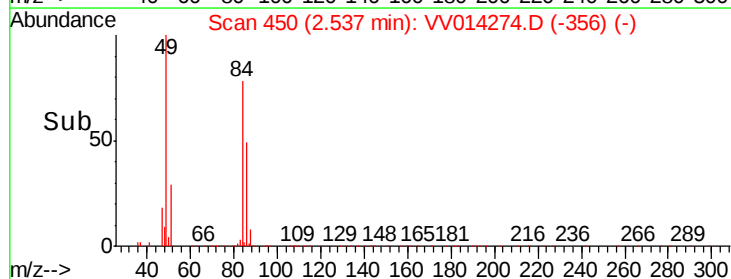
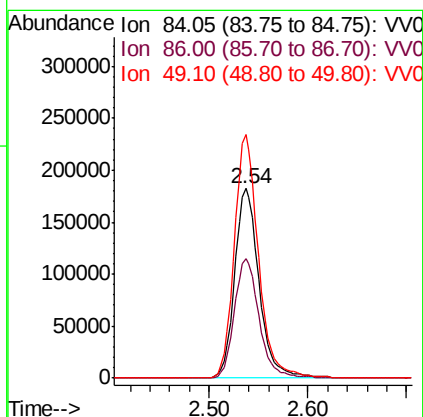
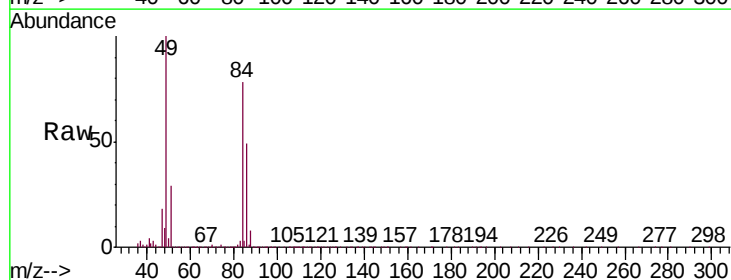
Instrument :  
MSVOA\_V  
ClientSampled :  
VSTD00553

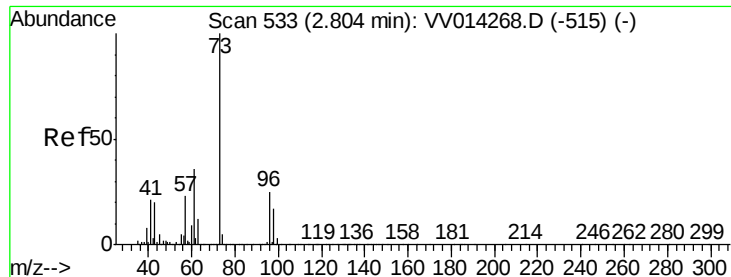
Tgt Ion: 43 Resp: 117317  
Ion Ratio Lower Upper  
43 100  
74 21.0 18.6 28.0



#16  
Methylene chloride  
Concen: 4.288 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

Tgt Ion: 84 Resp: 313104  
Ion Ratio Lower Upper  
84 100  
86 63.1 43.1 80.1  
49 128.6 82.1 152.5



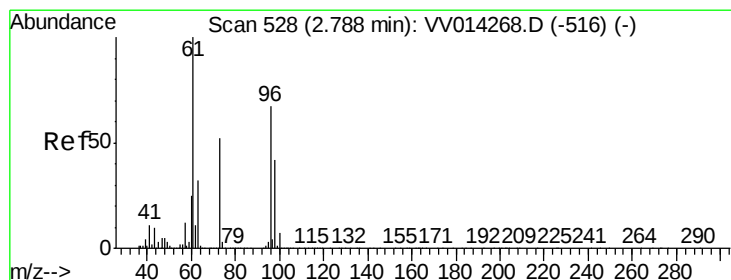
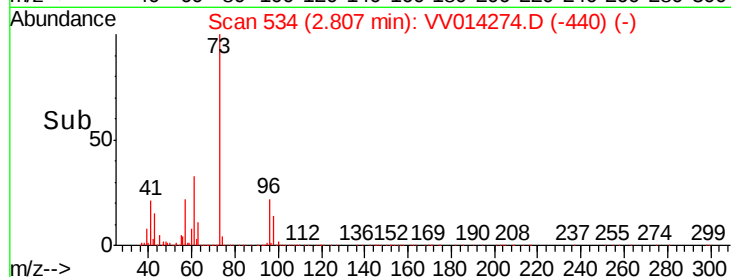
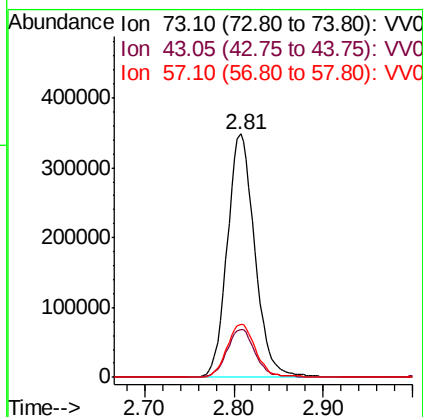
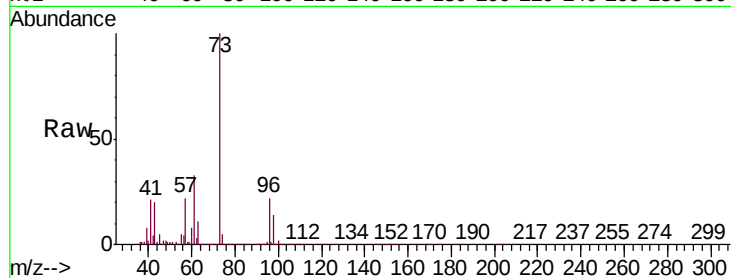


#17

Methyl tert-butyl Ether  
 Concen: 4.470 ug/L  
 RT: 2.81 min Scan# 534  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

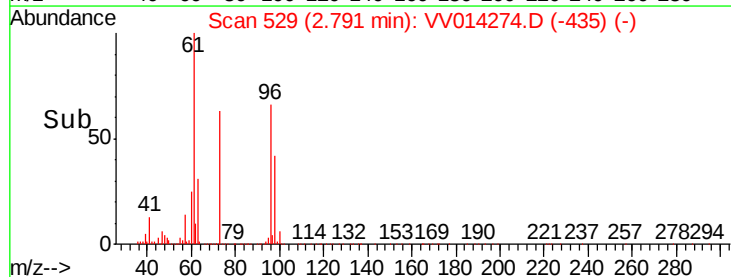
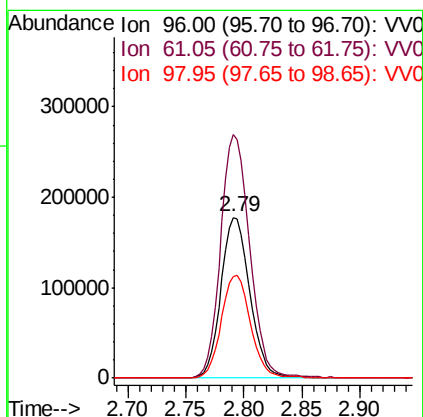
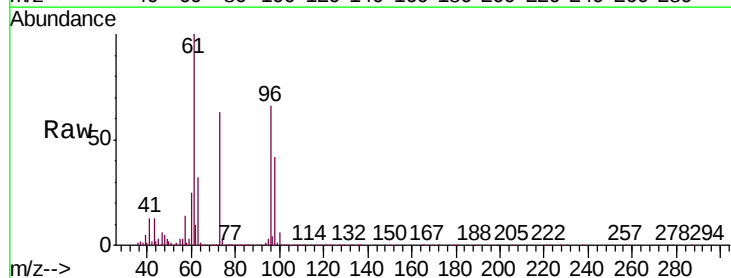
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 741932 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 43       | 19.9  | 14.7  | 22.1   |
| 57       | 22.4  | 17.9  | 26.9   |

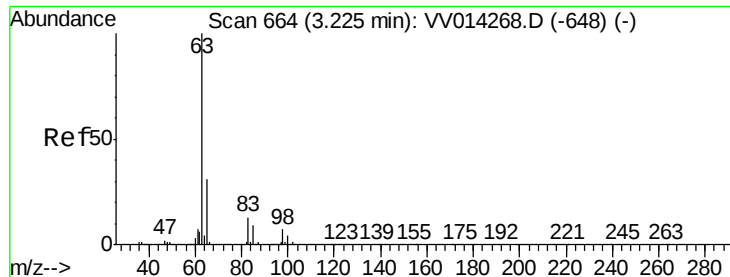


#18

trans-1,2-Dichloroethene  
 Concen: 4.554 ug/L  
 RT: 2.79 min Scan# 529  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 307056 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 151.4 | 99.2  | 184.2  |
| 98       | 63.4  | 43.1  | 80.1   |

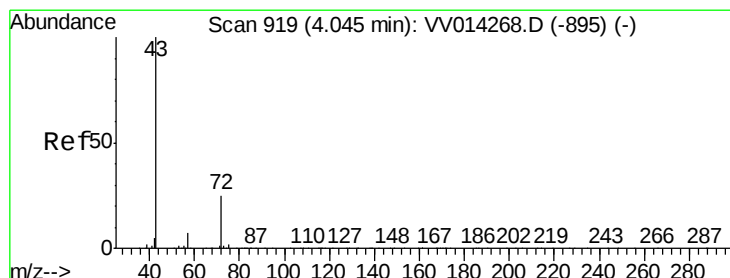
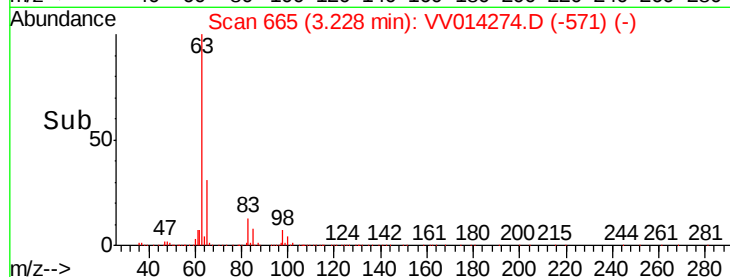
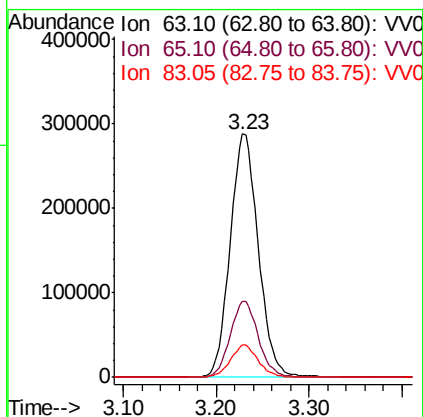
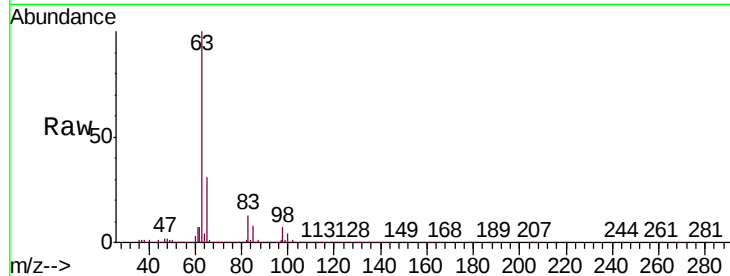




#19  
 1,1-Dichloroethane  
 Concen: 4.583 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

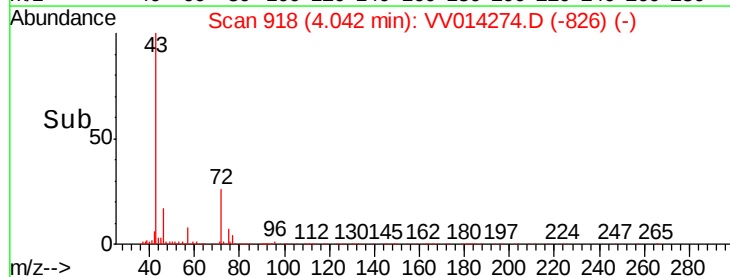
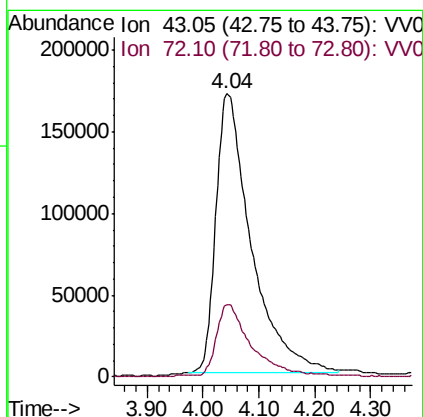
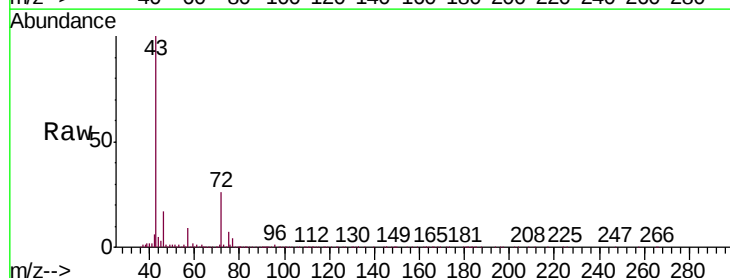
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

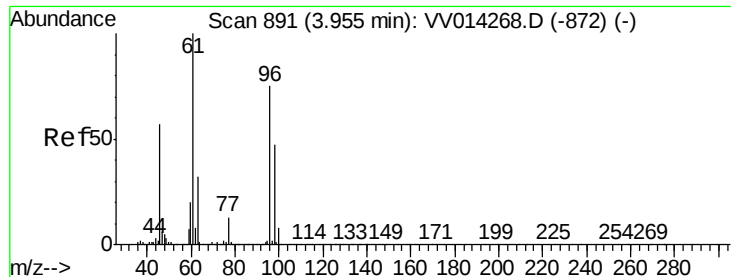
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.4  | 22.7  | 42.3  |
| 83      | 13.3  | 10.0  | 18.6  |



#21  
 2-Butanone  
 Concen: 43.480 ug/L  
 RT: 4.04 min Scan# 918  
 Delta R.T. -0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 24.1  | 12.4  | 37.2  |



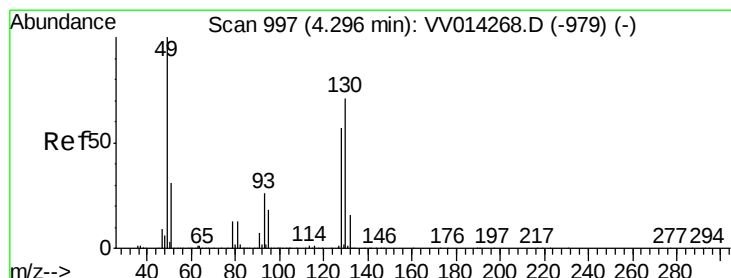
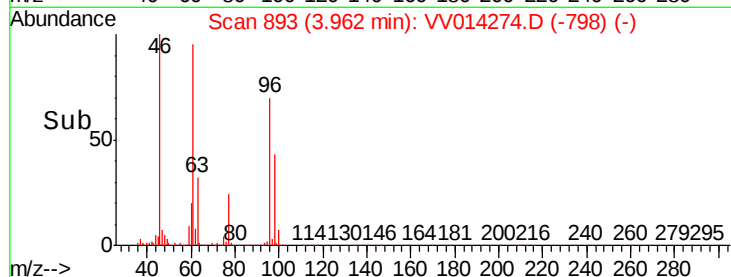
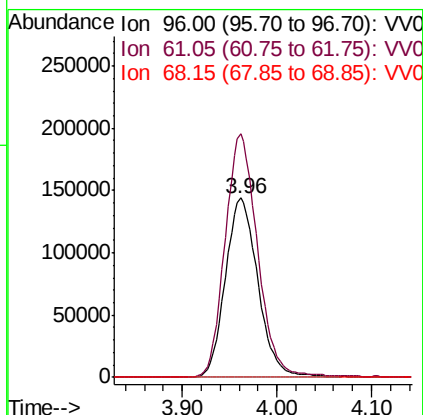
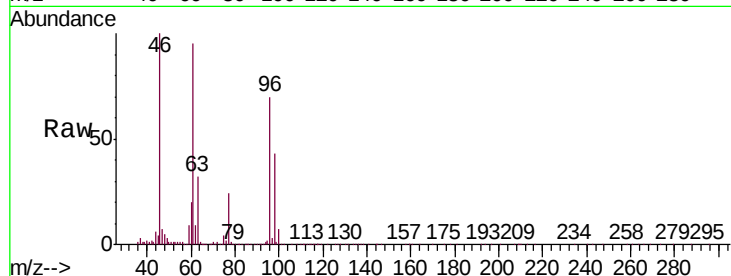


#22

cis-1,2-Dichloroethene  
 Concen: 4.629 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.01 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

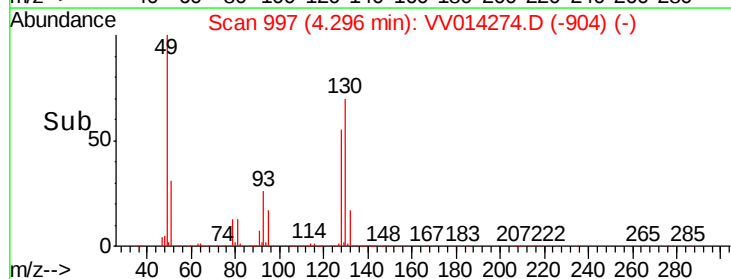
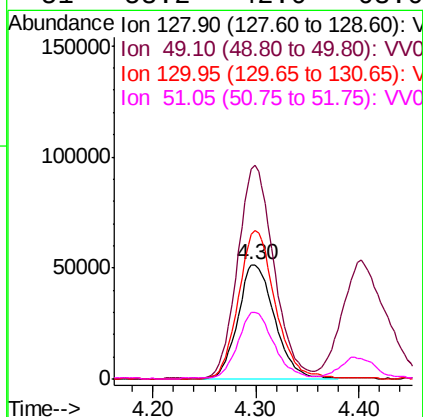
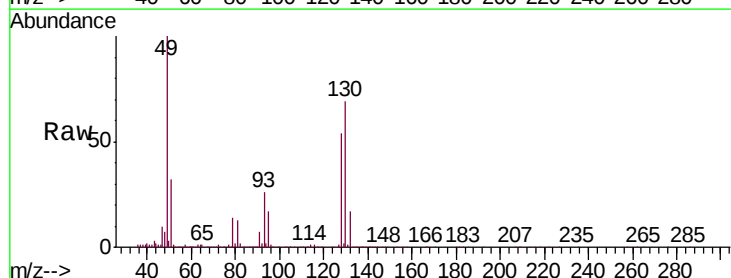
Tgt Ion: 96 Resp: 342111  
 Ion Ratio Lower Upper  
 96 100  
 61 135.9 90.6 168.3  
 68 0.2 0.3 0.7#

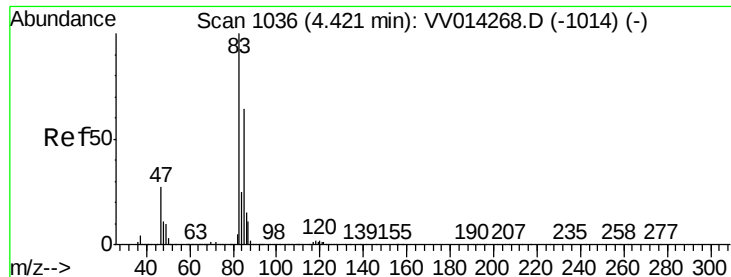


#23

Bromochloromethane  
 Concen: 4.547 ug/L  
 RT: 4.30 min Scan# 997  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Tgt Ion: 128 Resp: 127755  
 Ion Ratio Lower Upper  
 128 100  
 49 184.0 117.5 218.1  
 130 127.0 93.7 173.9  
 51 58.2 42.0 63.0





#25

Chloroform

Concen: 4.558 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampled :

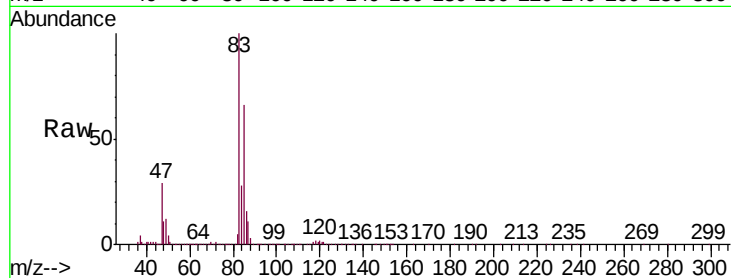
VSTD00553

Tgt Ion: 83 Resp: 576655

Ion Ratio Lower Upper

83 100

85 65.9 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

250000

200000

150000

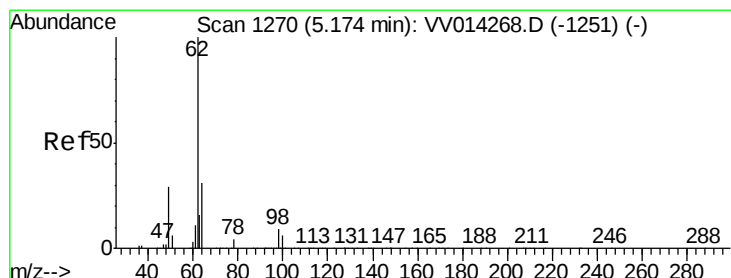
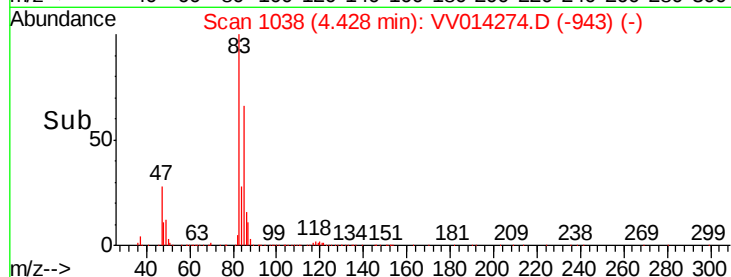
100000

50000

0

4.30 4.40 4.50

Time-->



#27

1,2-Dichloroethane

Concen: 4.526 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VV014274.D

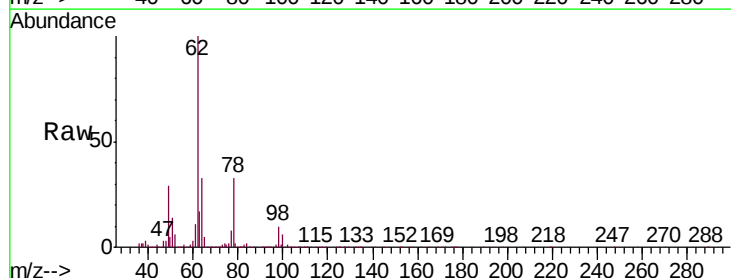
Acq: 10 Jan 2020 17:11

Tgt Ion: 62 Resp: 342542

Ion Ratio Lower Upper

62 100

98 9.6 9.2 13.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

150000

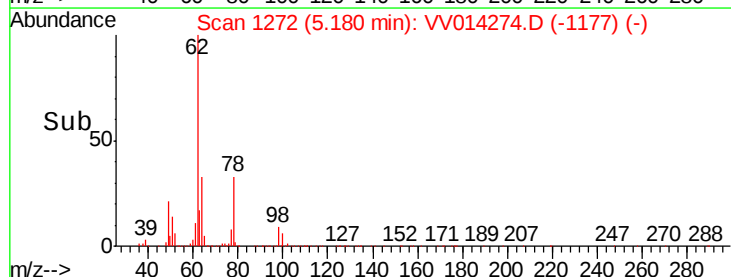
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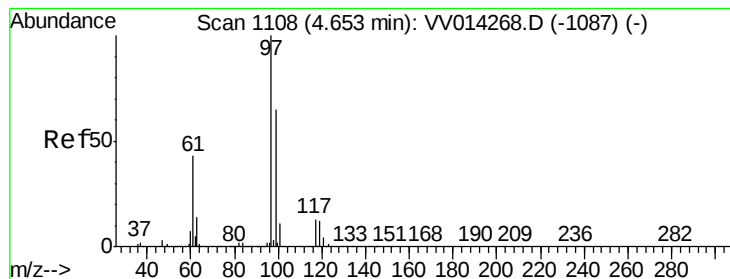
50000

0

5.10 5.20 5.30

Time-->





#29

1,1,1-Trichloroethane

Concen: 4.734 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00553

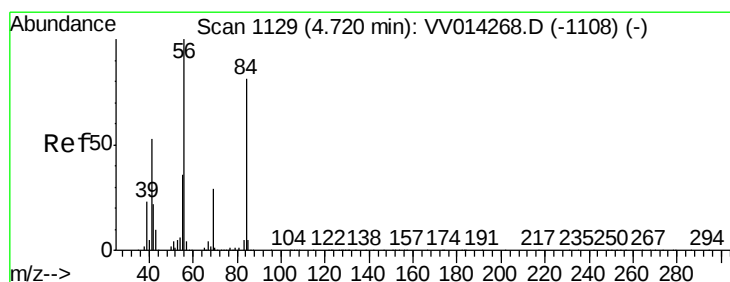
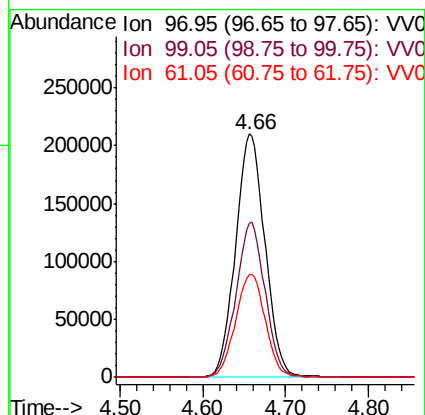
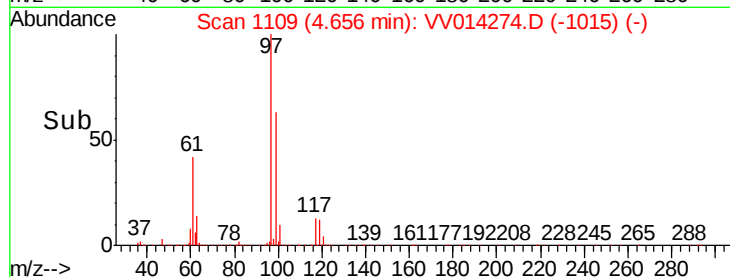
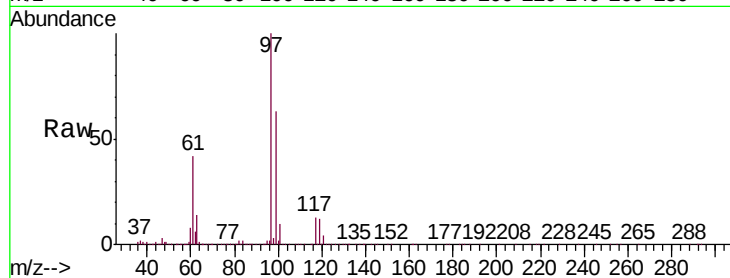
Tgt Ion: 97 Resp: 518266

Ion Ratio Lower Upper

97 100

99 63.0 51.1 76.7

61 42.7 33.9 50.9



#30

Cyclohexane

Concen: 4.935 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

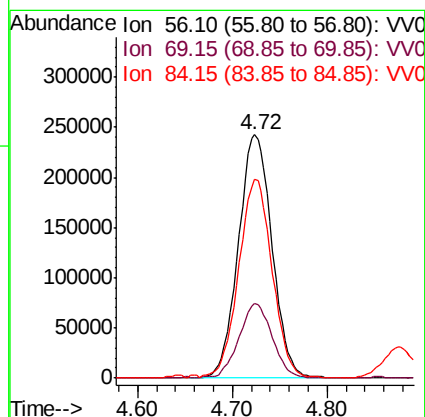
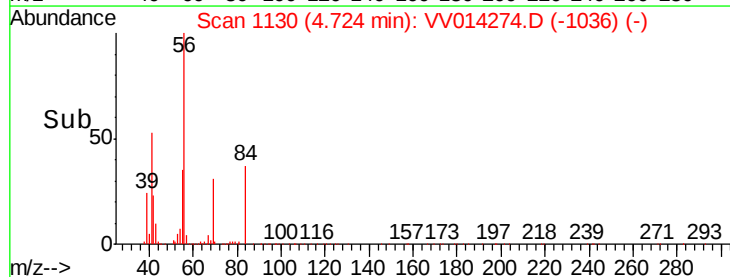
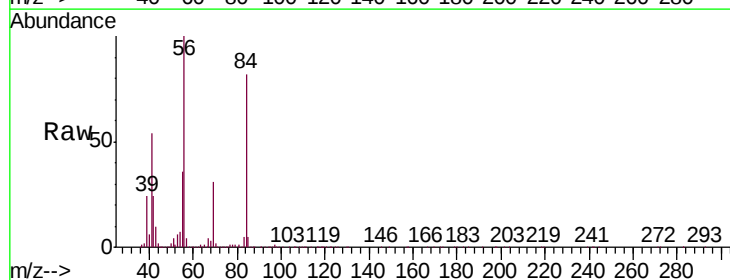
Tgt Ion: 56 Resp: 596483

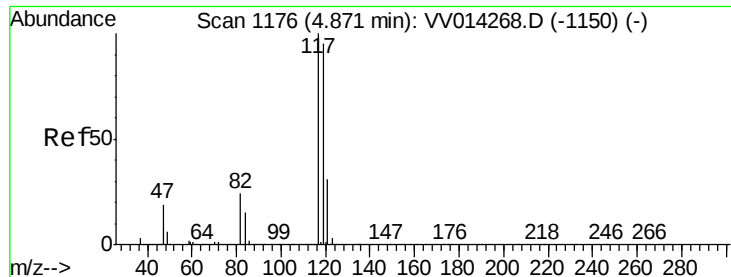
Ion Ratio Lower Upper

56 100

69 30.1 23.9 35.9

84 82.0 68.9 103.3





#31

Carbon tetrachloride

Concen: 4.689 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

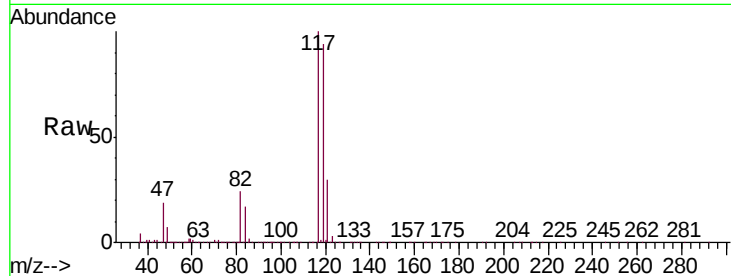
VSTD00553

Tgt Ion:117 Resp: 439566

Ion Ratio Lower Upper

117 100

119 96.2 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

200000

150000

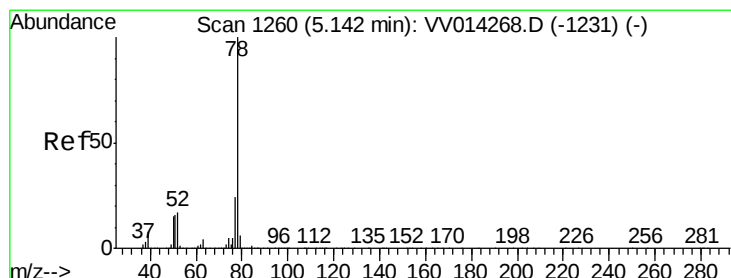
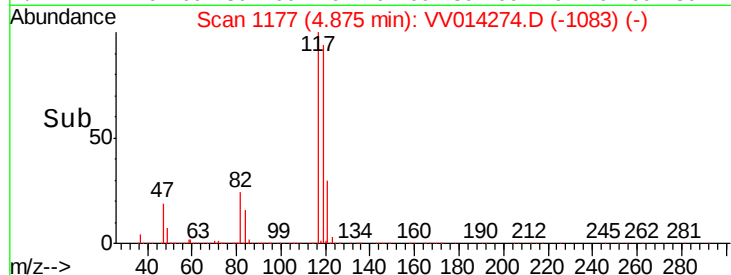
100000

50000

0

Time-->

4.80 4.90 5.00



#33

Benzene

Concen: 4.639 ug/L

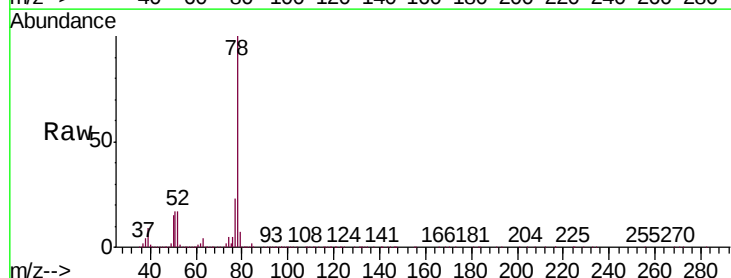
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Tgt Ion: 78 Resp: 1314031



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

600000

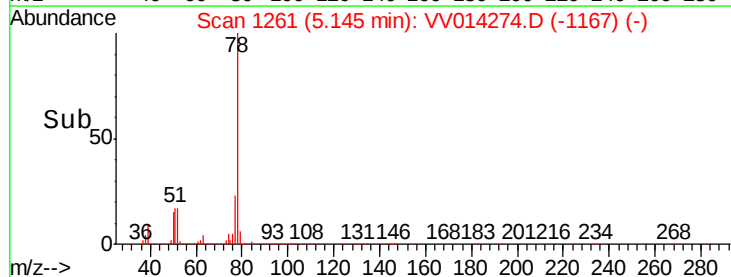
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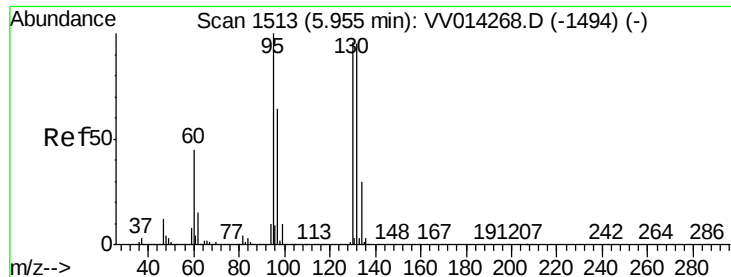
200000

0

Time-->

5.00 5.10 5.20 5.30

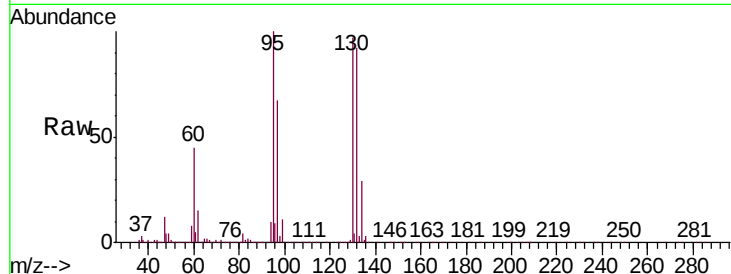




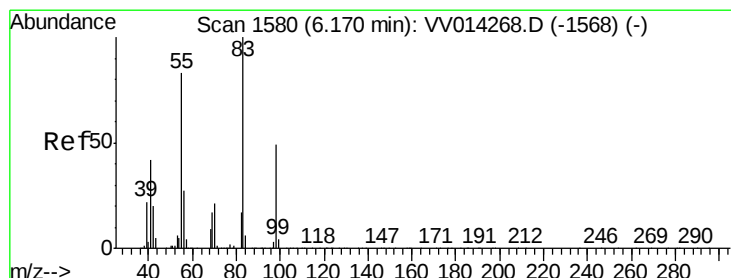
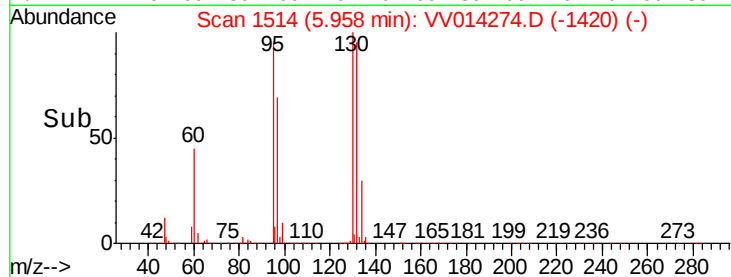
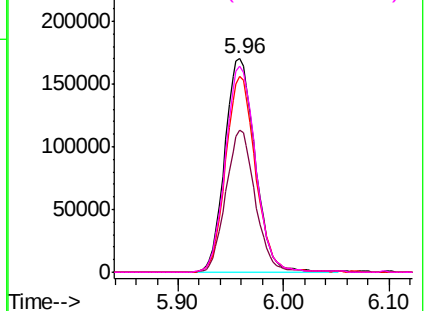
#34  
 Trichloroethene  
 Concen: 4.628 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 336840 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 66.8  | 43.8  | 81.3   |
| 132      | 91.6  | 63.4  | 117.8  |
| 130      | 96.5  | 65.7  | 122.1  |

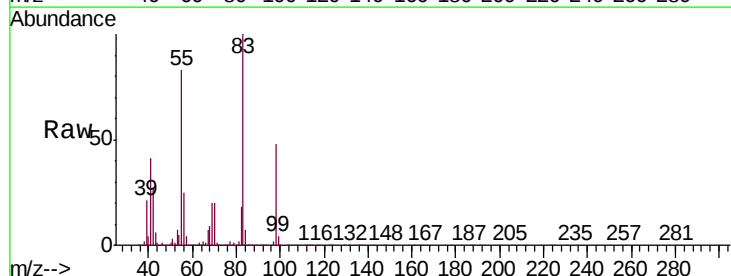


Abundance Ion 95.00 (94.70 to 95.70): VV014274.D (-1420) (-)  
 Ion 96.95 (96.65 to 97.65): VV014274.D (-1420) (-)  
 Ion 131.95 (131.65 to 132.65): VV014274.D (-1420) (-)  
 Ion 129.95 (129.65 to 130.65): VV014274.D (-1420) (-)

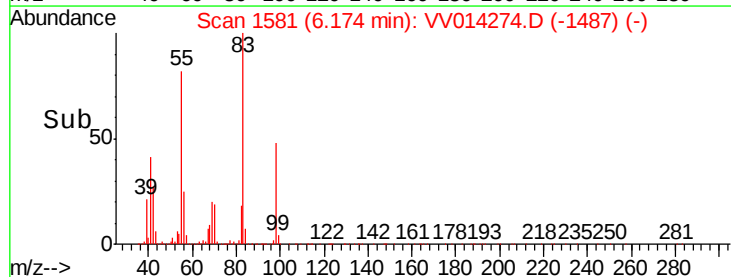
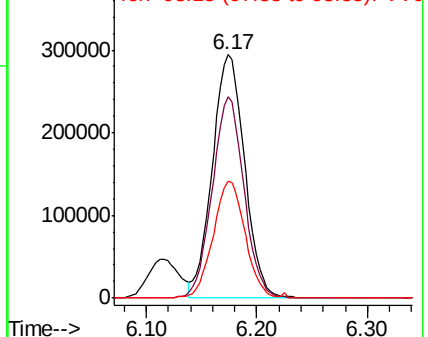


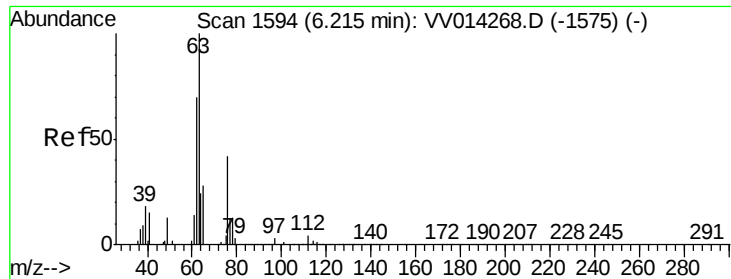
#35  
 Methylcyclohexane  
 Concen: 5.029 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 598477 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 80.3  | 61.7  | 92.5   |
| 98       | 46.7  | 38.1  | 57.1   |



Abundance Ion 83.15 (82.85 to 83.85): VV014274.D (-1487) (-)  
 Ion 55.10 (54.80 to 55.80): VV014274.D (-1487) (-)  
 Ion 98.15 (97.85 to 98.85): VV014274.D (-1487) (-)





#37

1,2-Dichloropropane

Concen: 4.499 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

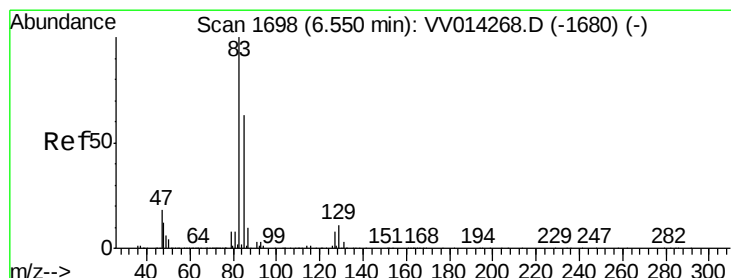
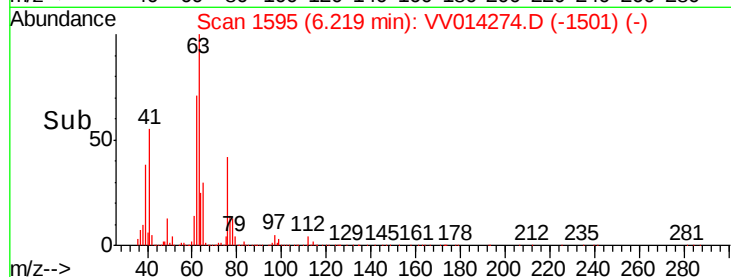
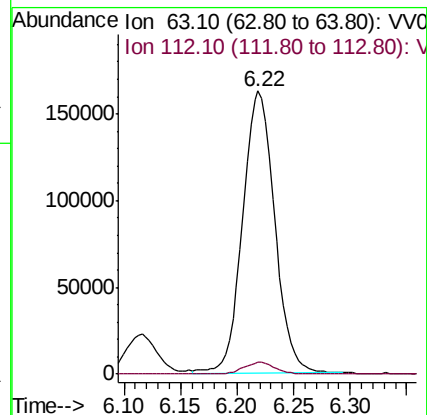
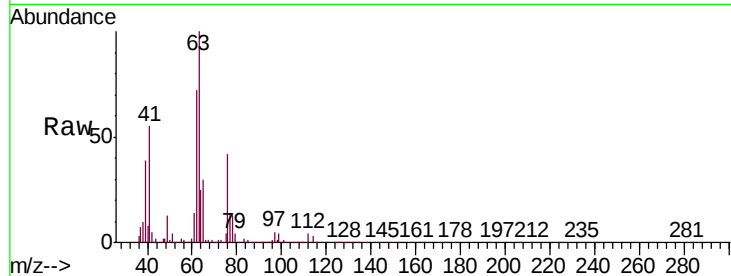
VSTD00553

Tgt Ion: 63 Resp: 321639

Ion Ratio Lower Upper

63 100

112 4.1 3.7 5.5



#38

Bromodichloromethane

Concen: 4.497 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

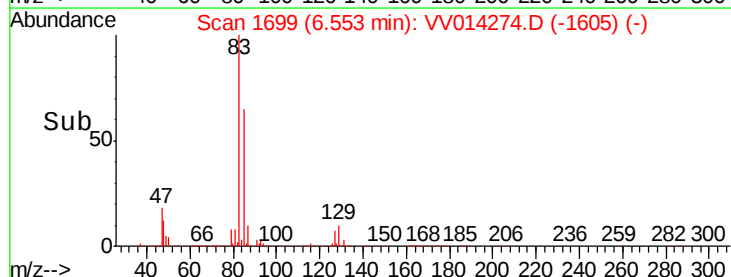
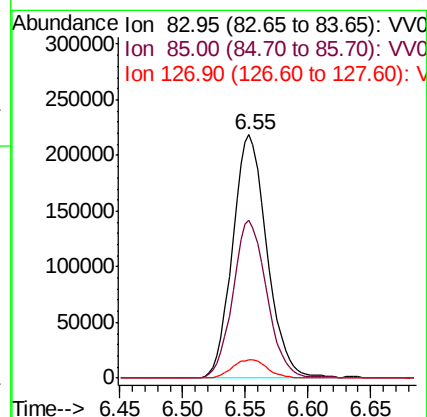
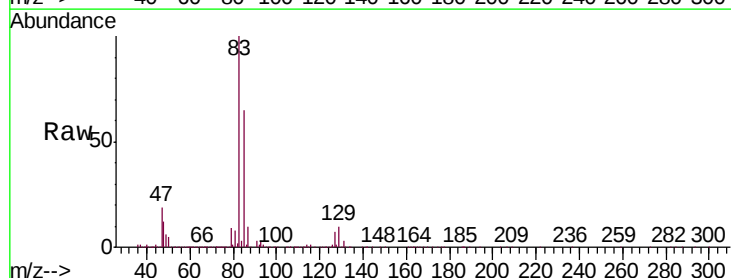
Tgt Ion: 83 Resp: 414569

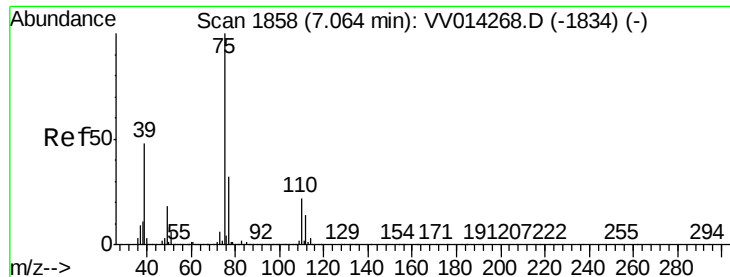
Ion Ratio Lower Upper

83 100

85 64.8 46.4 86.2

127 7.5 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 4.466 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

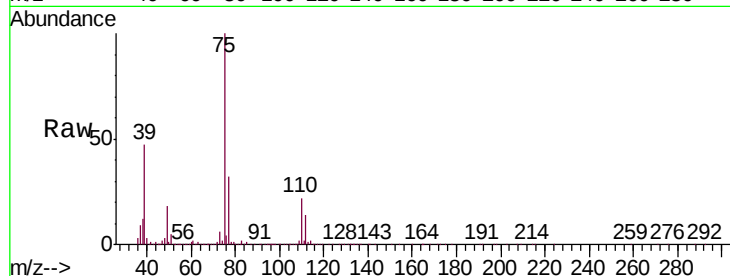
VSTD00553

Tgt Ion: 75 Resp: 516928

Ion Ratio Lower Upper

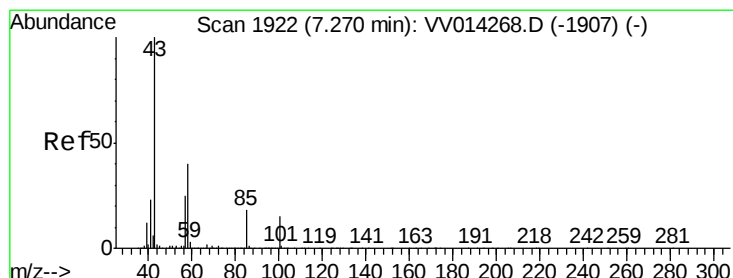
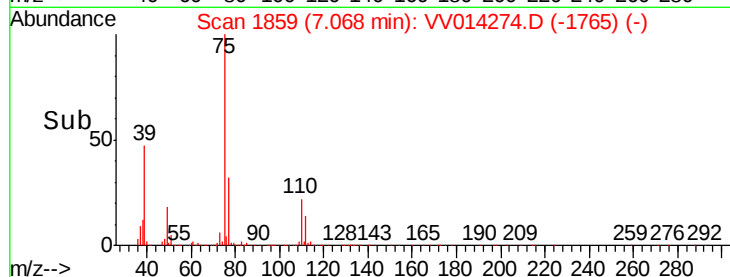
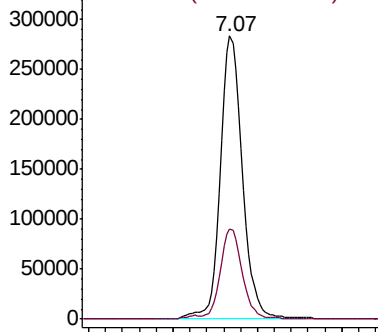
75 100

77 31.8 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 43.897 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

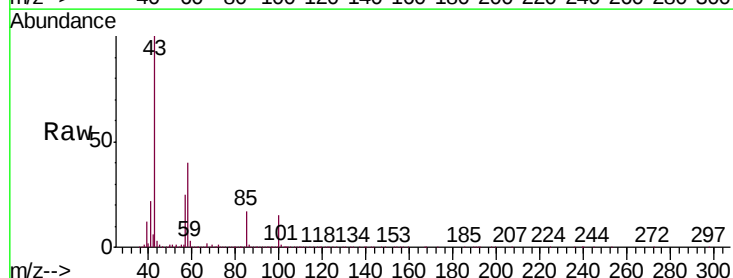
Tgt Ion: 43 Resp: 1978189

Ion Ratio Lower Upper

43 100

58 39.6 31.5 47.3

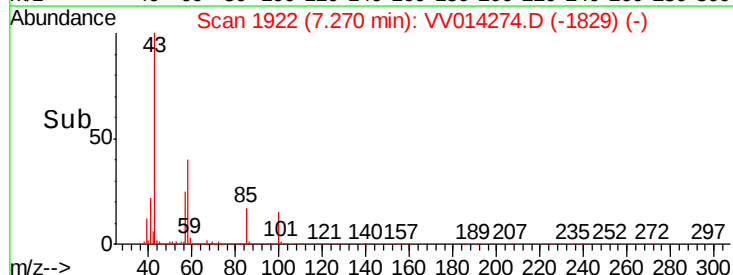
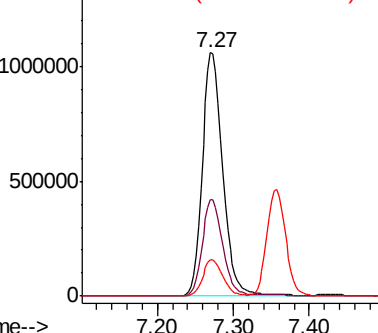
100 14.7 12.2 18.2

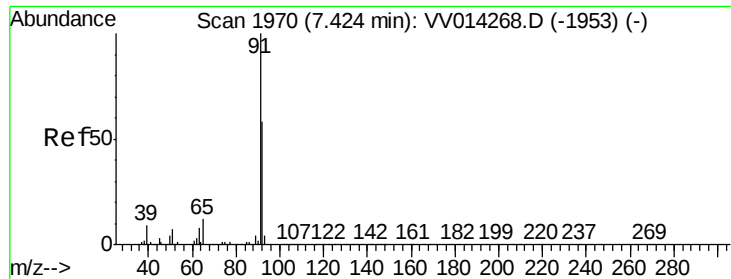


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 4.623 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

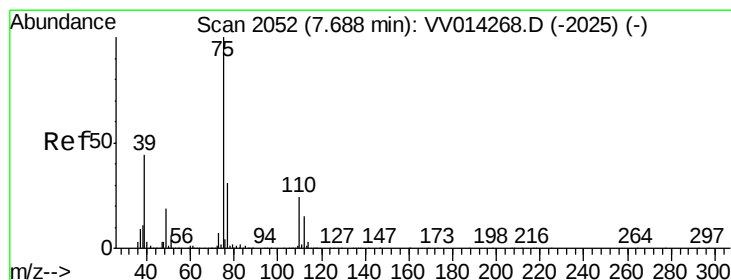
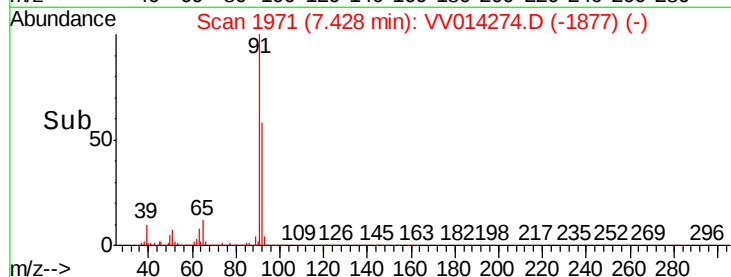
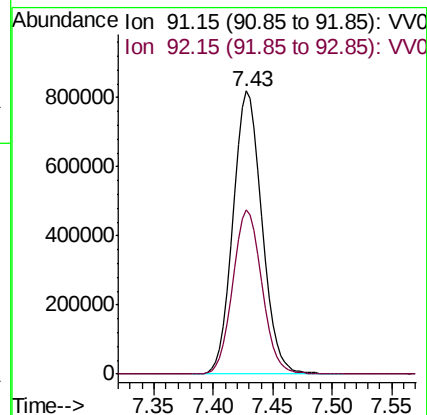
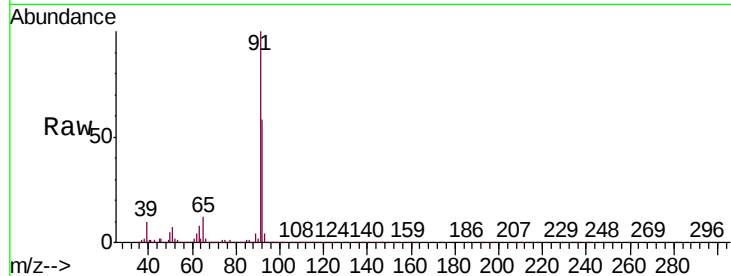
VSTD00553

Tgt Ion: 91 Resp: 1382218

Ion Ratio Lower Upper

91 100

92 57.9 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 4.395 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014274.D

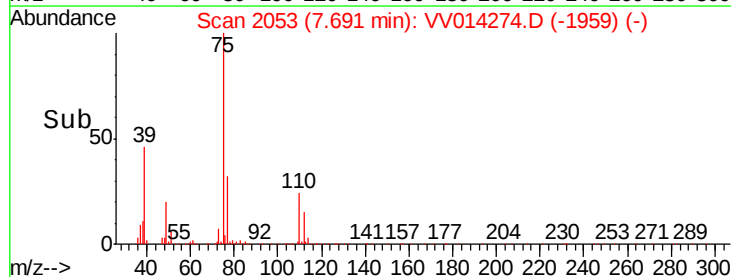
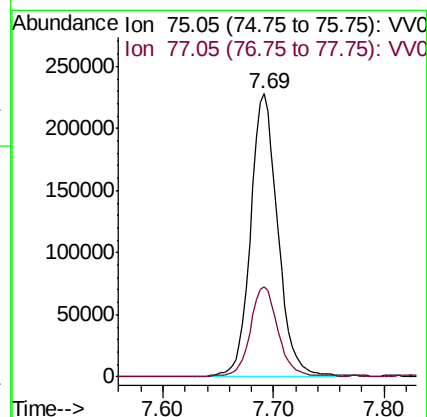
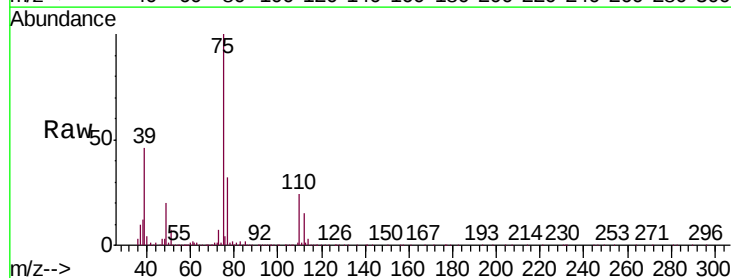
Acq: 10 Jan 2020 17:11

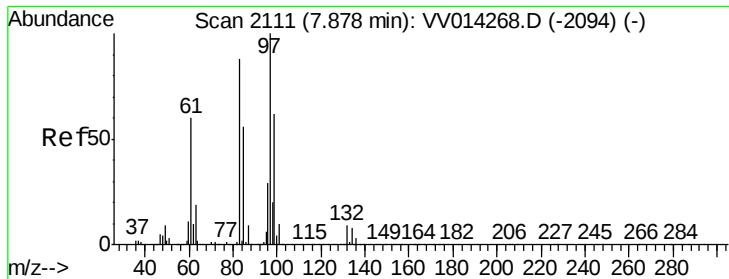
Tgt Ion: 75 Resp: 390627

Ion Ratio Lower Upper

75 100

77 31.7 22.0 41.0

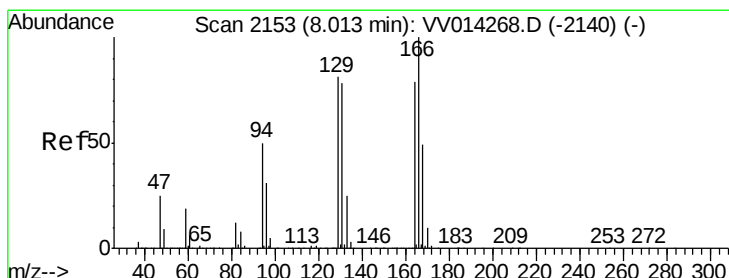
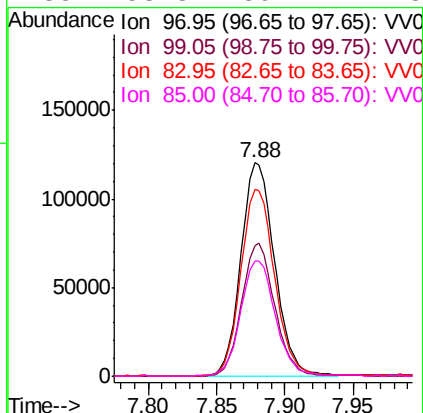
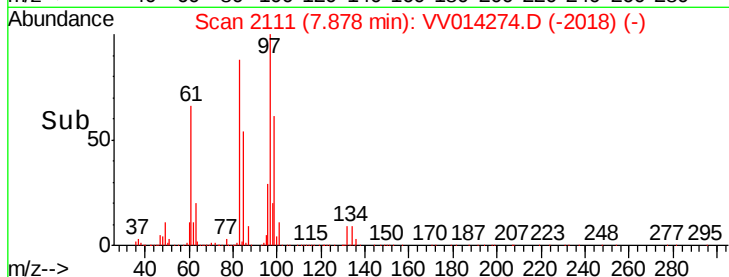
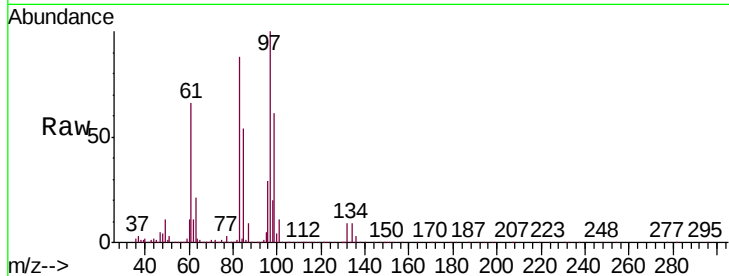




#45  
 1,1,2-Trichloroethane  
 Concen: 4.521 ug/L  
 RT: 7.88 min Scan# 2111  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

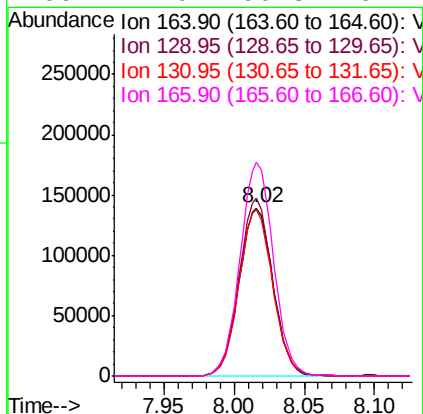
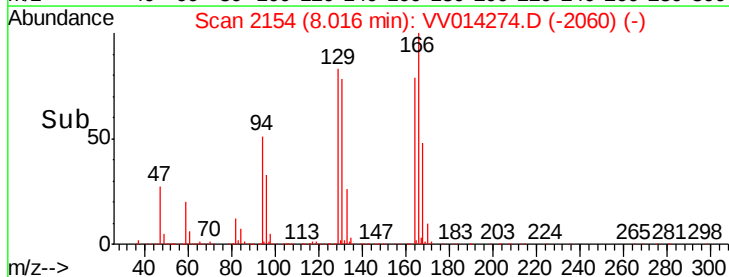
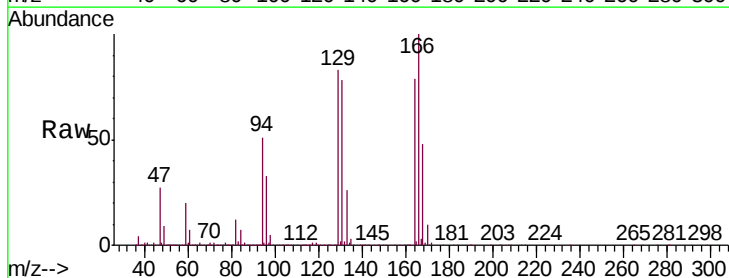
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

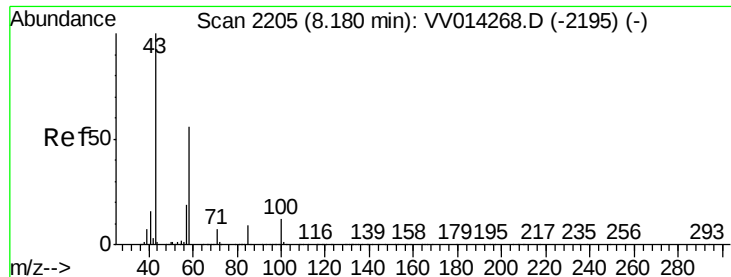
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 206451 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.2  | 43.7  | 81.1   |
| 83       | 87.6  | 60.0  | 111.4  |
| 85       | 53.8  | 39.2  | 72.8   |



#47  
 Tetrachloroethene  
 Concen: 4.750 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 236214 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 105.5 | 71.7  | 133.3  |
| 131      | 99.2  | 70.4  | 130.8  |
| 166      | 127.0 | 90.3  | 167.7  |

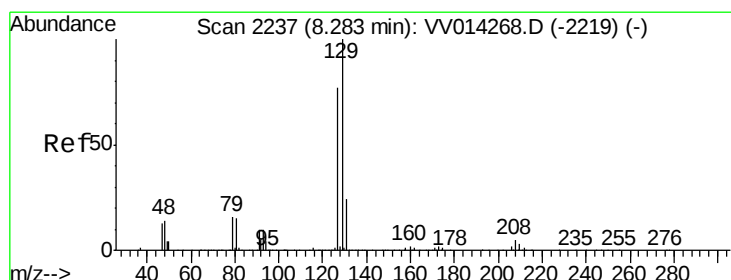
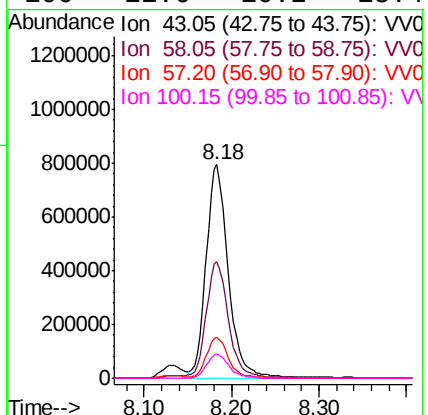
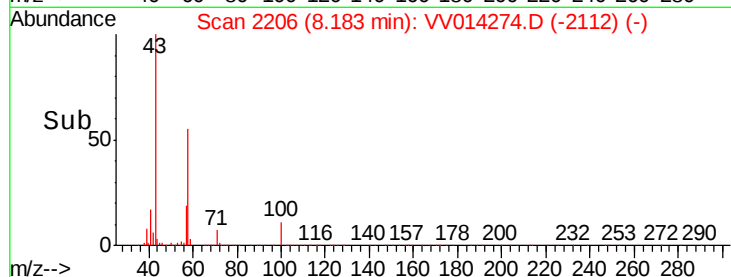
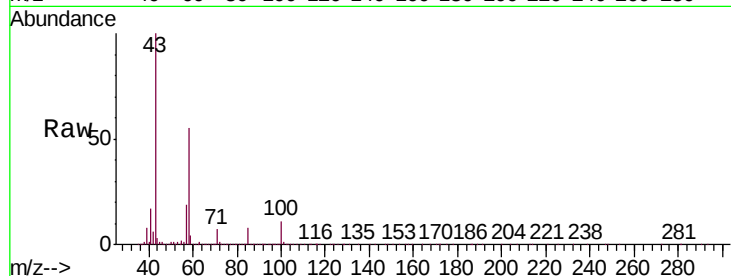




#48  
2-Hexanone  
Concen: 44.575 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

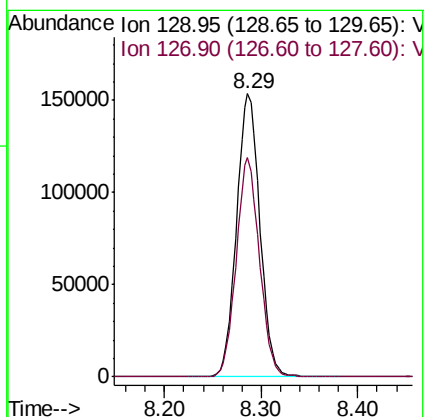
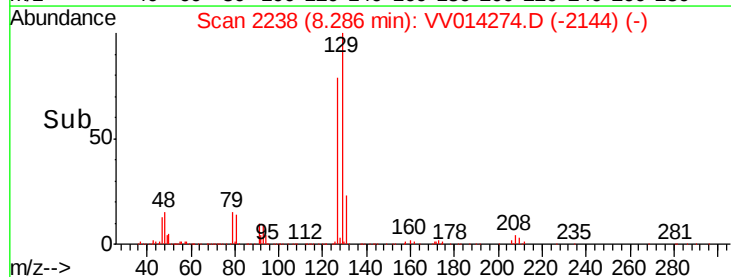
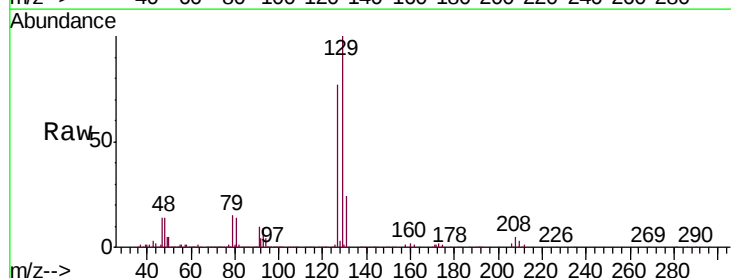
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00553

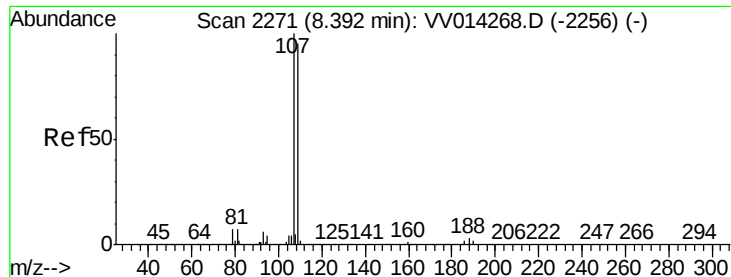
Tgt Ion: 43 Resp: 1389406  
Ion Ratio Lower Upper  
43 100  
58 56.9 45.4 68.0  
57 18.9 15.8 23.8  
100 11.6 10.2 15.4



#49  
Dibromochloromethane  
Concen: 4.463 ug/L  
RT: 8.29 min Scan# 2238  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

Tgt Ion: 129 Resp: 257700  
Ion Ratio Lower Upper  
129 100  
127 77.4 55.7 103.5

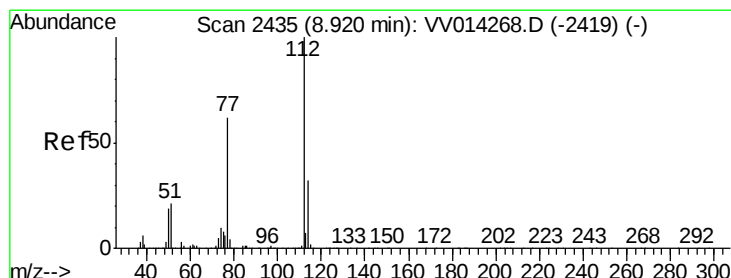
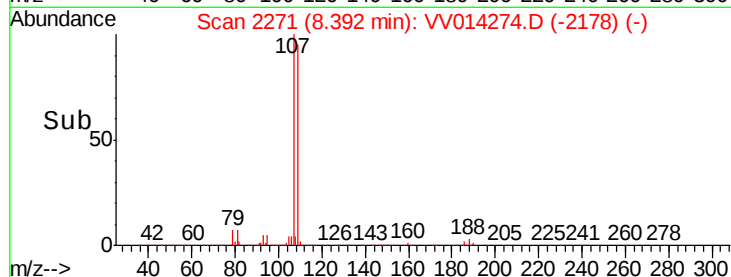
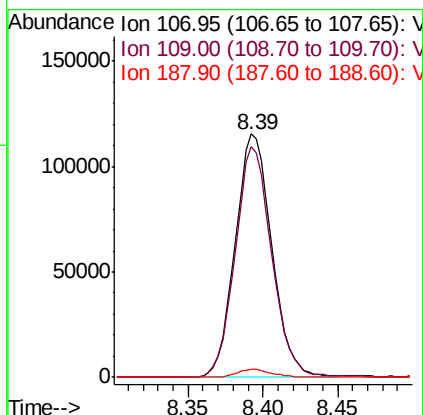
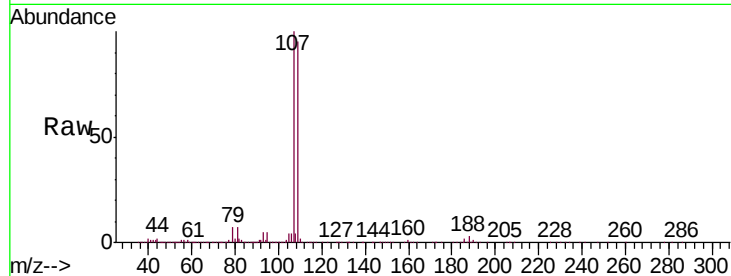




#50  
1,2-Dibromoethane  
Concen: 4.448 ug/L  
RT: 8.39 min Scan# 2271  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

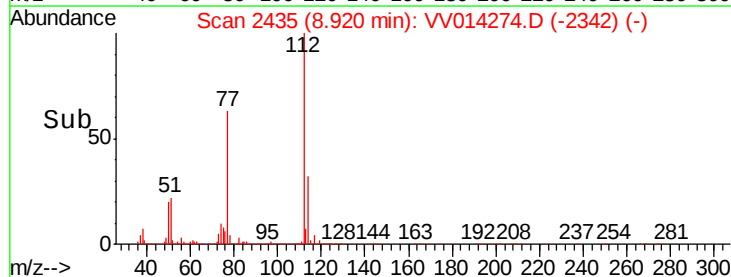
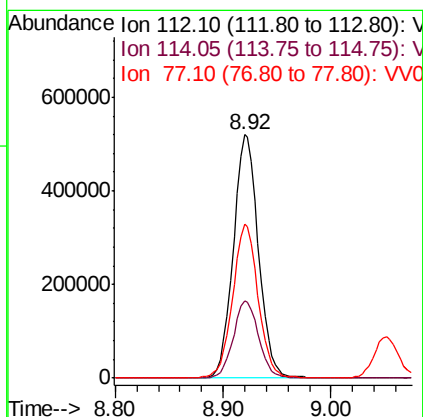
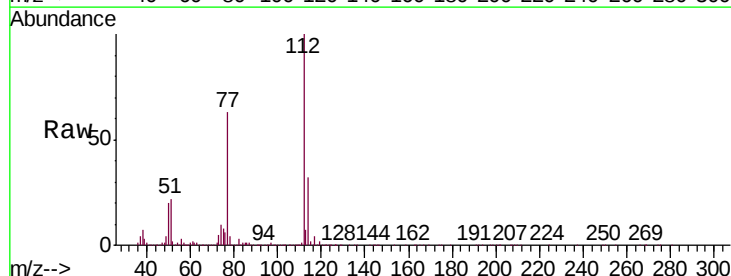
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00553

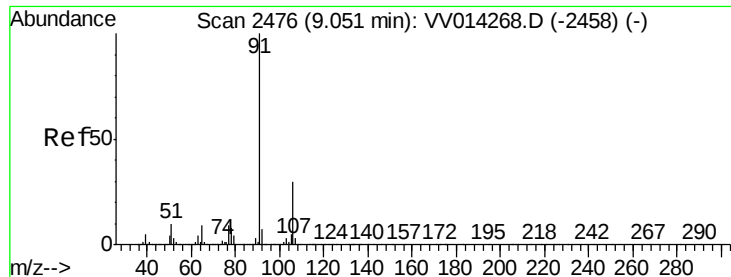
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.6  | 63.0  | 117.0 |
| 188     | 3.2   | 3.0   | 4.4   |



#51  
Chlorobenzene  
Concen: 4.595 ug/L  
RT: 8.92 min Scan# 2435  
Delta R.T. 0.00 min  
Lab File: VV014274.D  
Acq: 10 Jan 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.9  | 22.5  | 41.7  |
| 77      | 63.2  | 49.3  | 73.9  |





#52

Ethylbenzene

Concen: 4.706 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

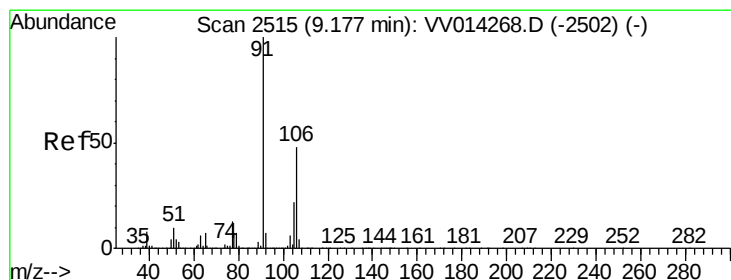
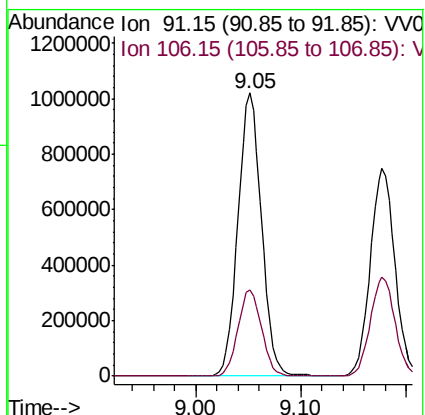
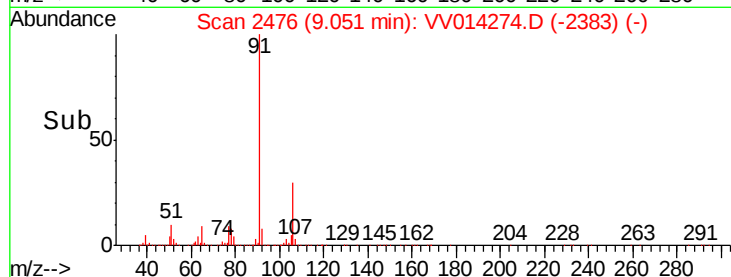
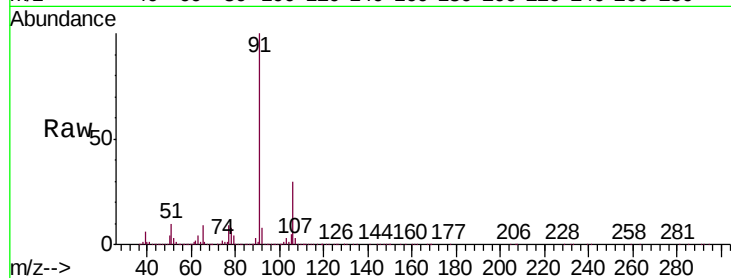
VSTD00553

Tgt Ion: 91 Resp: 1574112

Ion Ratio Lower Upper

91 100

106 30.3 21.6 40.0



#53

m,p-xylene

Concen: 4.693 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014274.D

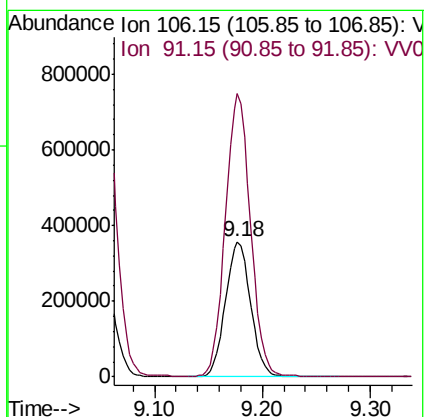
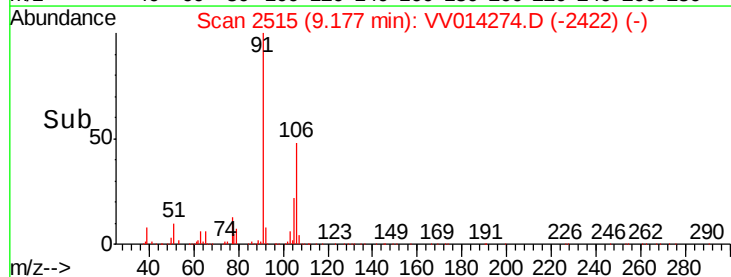
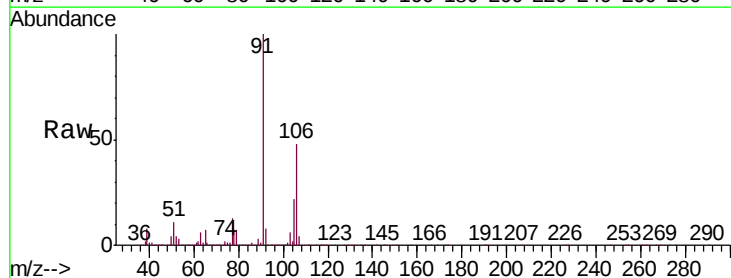
Acq: 10 Jan 2020 17:11

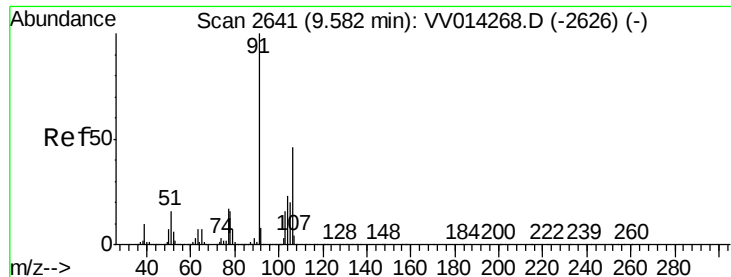
Tgt Ion: 106 Resp: 579044

Ion Ratio Lower Upper

106 100

91 209.2 146.8 272.6





#54

o-xylene

Concen: 4.604 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

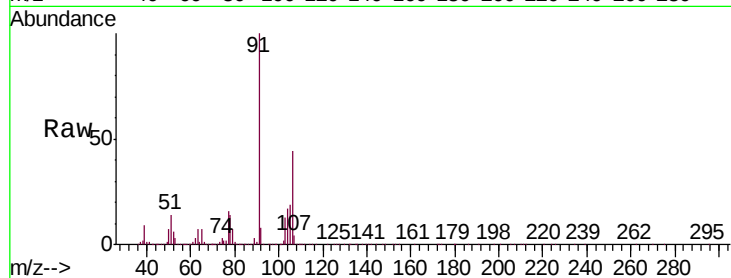
VSTD00553

Tgt Ion:106 Resp: 558607

Ion Ratio Lower Upper

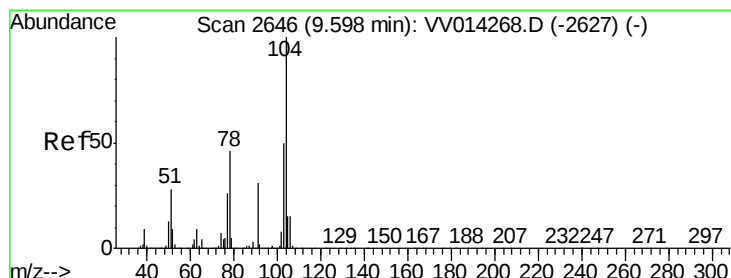
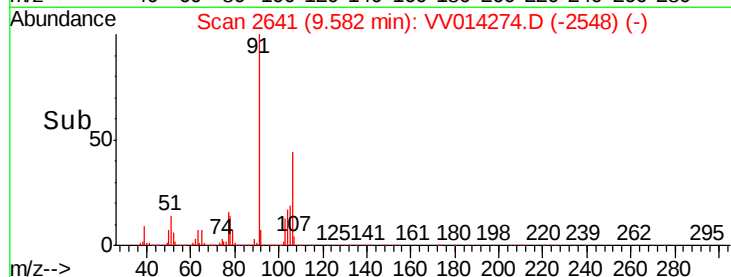
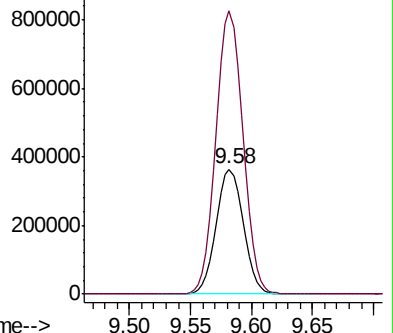
106 100

91 226.2 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.549 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014274.D

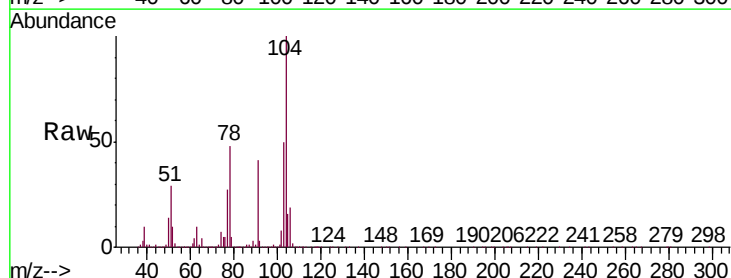
Acq: 10 Jan 2020 17:11

Tgt Ion:104 Resp: 934979

Ion Ratio Lower Upper

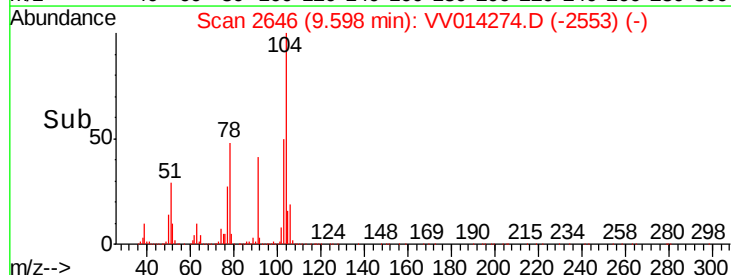
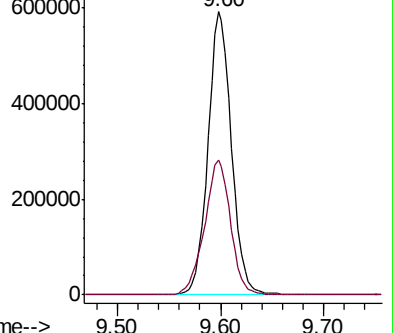
104 100

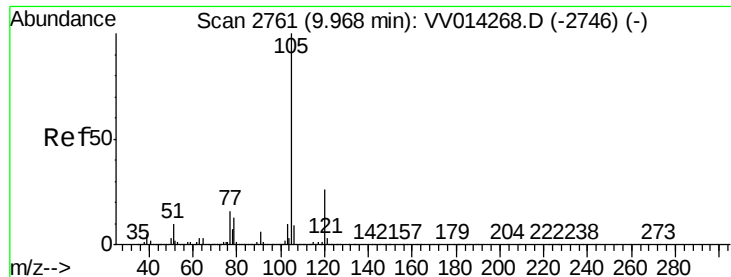
78 47.8 31.7 58.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.782 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00553

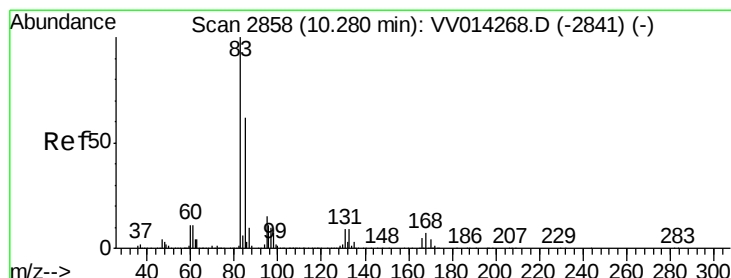
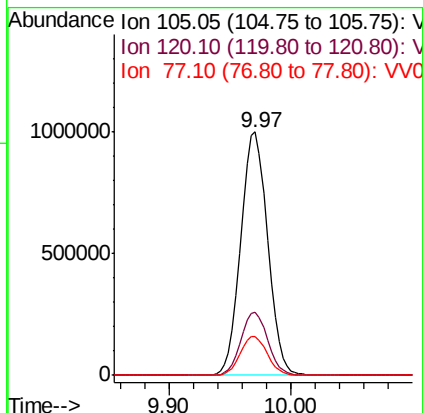
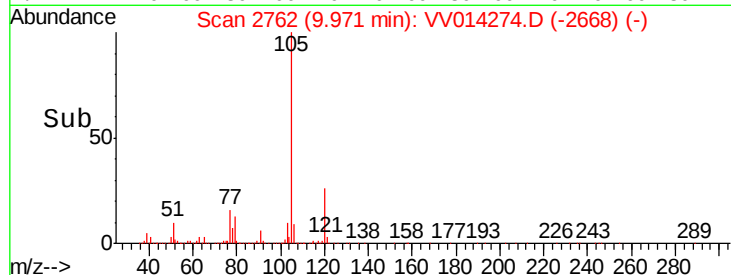
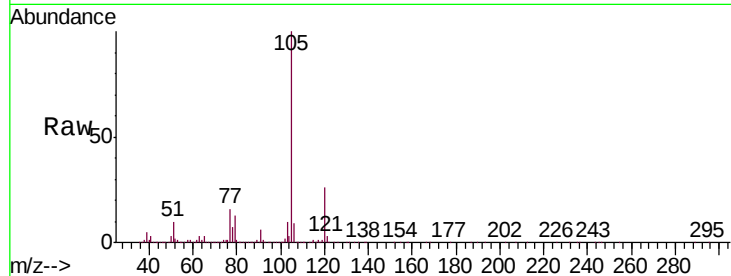
Tgt Ion:105 Resp: 1513493

Ion Ratio Lower Upper

105 100

120 25.9 21.0 31.4

77 16.0 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 4.487 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

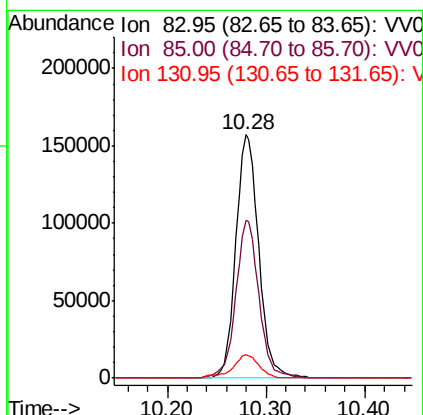
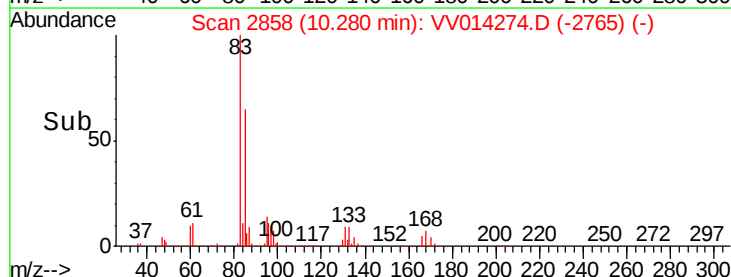
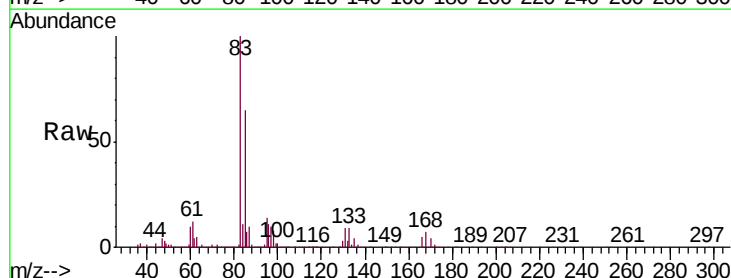
Tgt Ion: 83 Resp: 252664

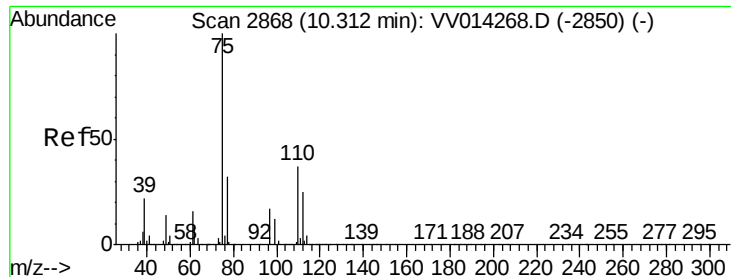
Ion Ratio Lower Upper

83 100

85 64.8 45.9 85.3

131 9.4 7.8 11.8





#59

1,2,3-Trichloropropane

Concen: 4.452 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

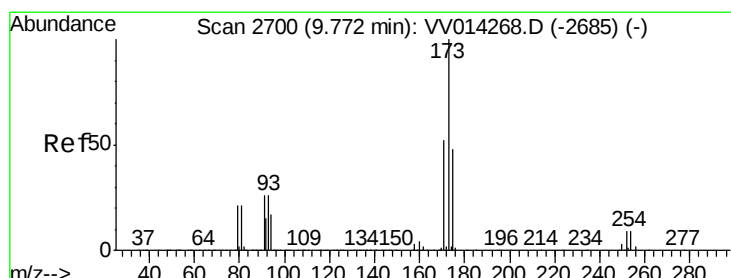
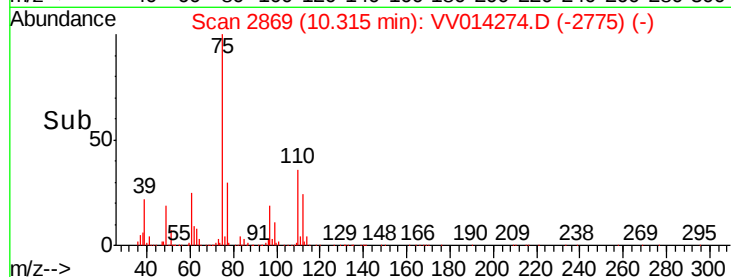
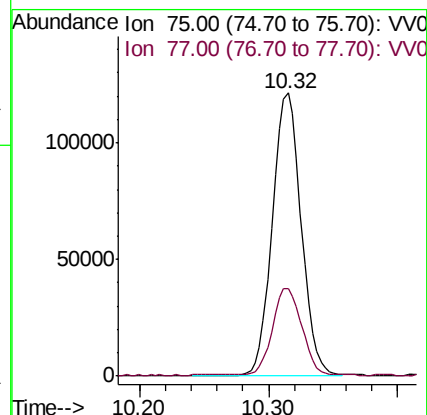
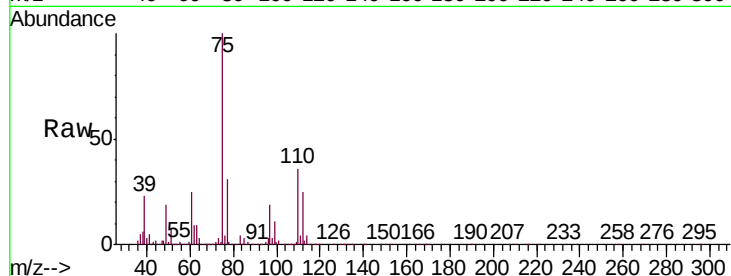
VSTD00553

Tgt Ion: 75 Resp: 189644

Ion Ratio Lower Upper

75 100

77 30.6 25.7 38.5



#61

Bromoform

Concen: 4.454 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

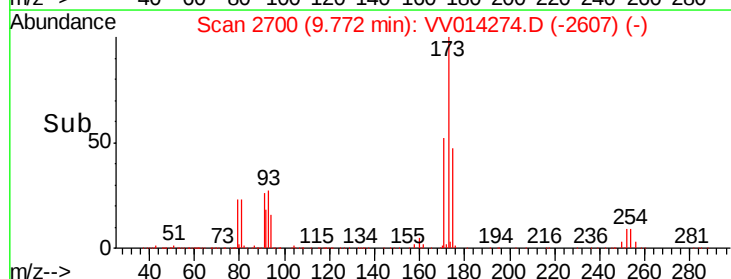
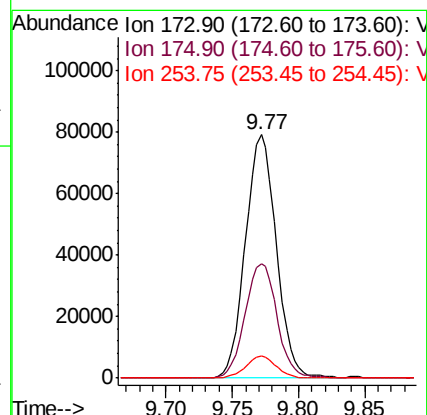
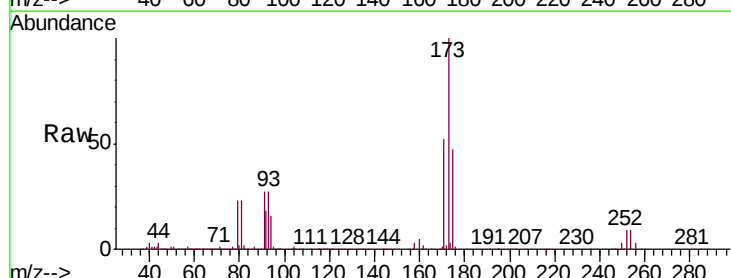
Tgt Ion: 173 Resp: 128222

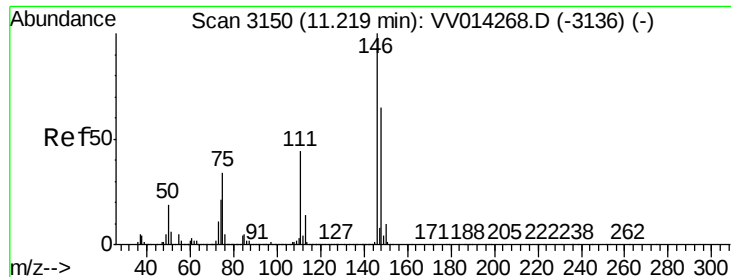
Ion Ratio Lower Upper

173 100

175 48.7 37.9 56.9

254 8.9 7.6 11.4

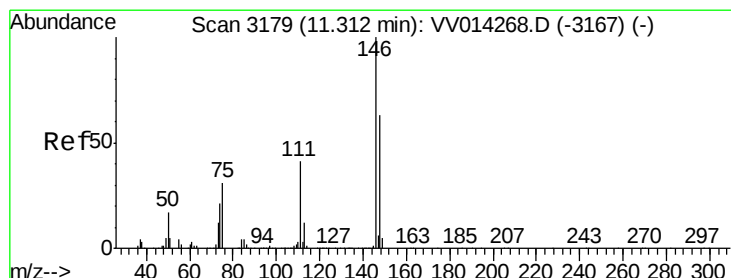
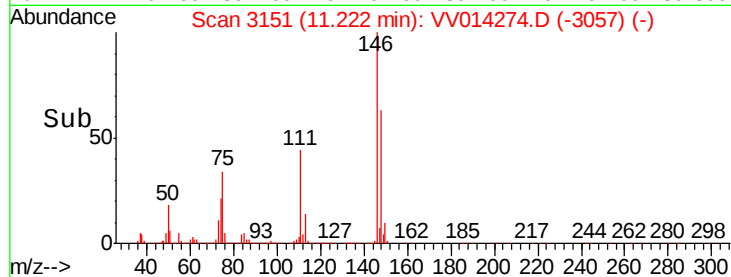
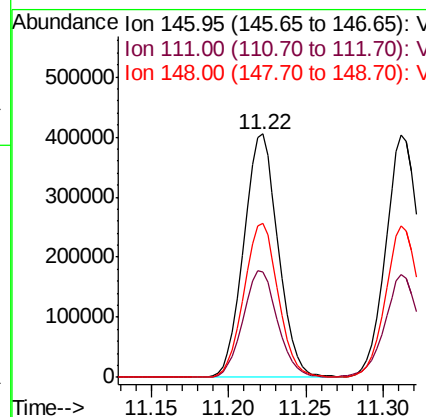
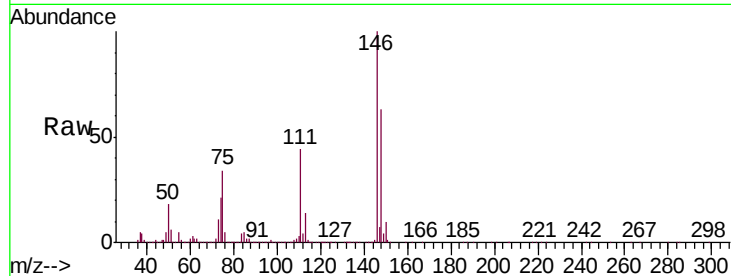




#62  
 1,3-Dichlorobenzene  
 Concen: 4.713 ug/L  
 RT: 11.22 min Scan# 3151  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

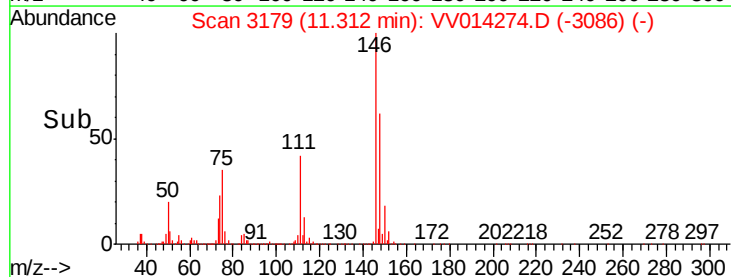
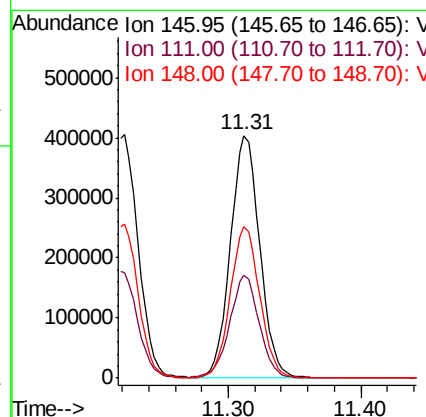
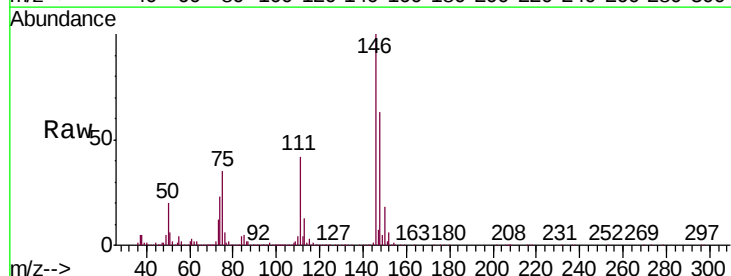
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

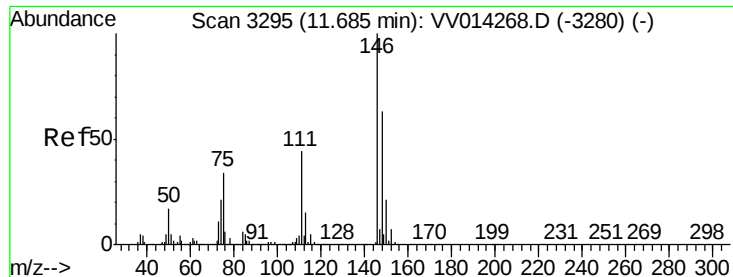
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.5  | 30.7  | 57.1  |
| 148     | 63.2  | 44.4  | 82.5  |



#63  
 1,4-Dichlorobenzene  
 Concen: 4.690 ug/L  
 RT: 11.31 min Scan# 3179  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 28.8  | 53.4  |
| 148     | 62.5  | 44.5  | 82.7  |

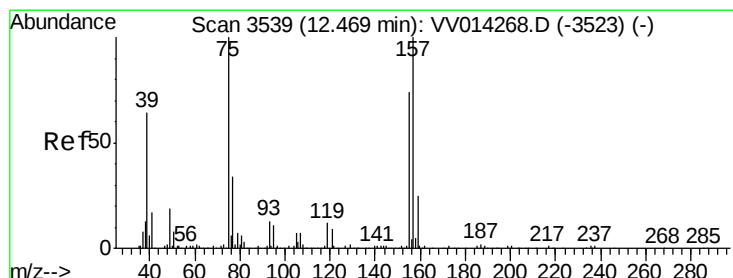
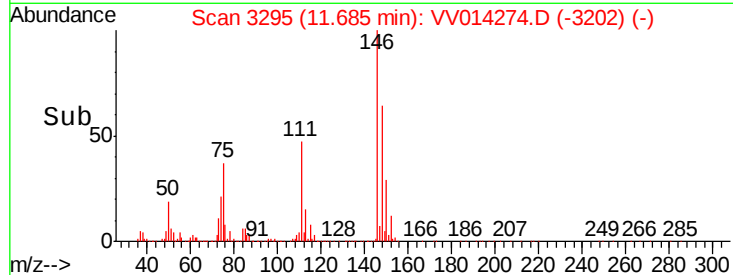
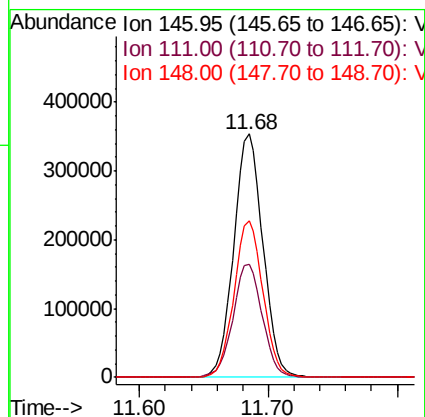
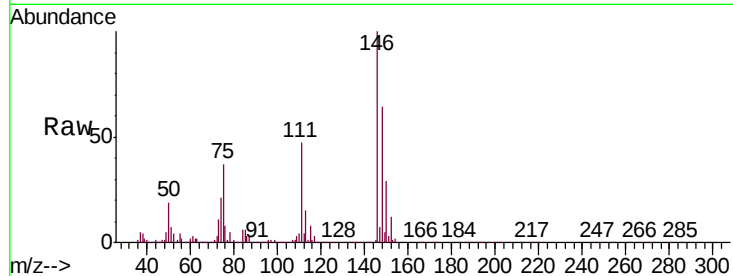




#65  
 1,2-Dichlorobenzene  
 Concen: 4.617 ug/L  
 RT: 11.68 min Scan# 3295  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

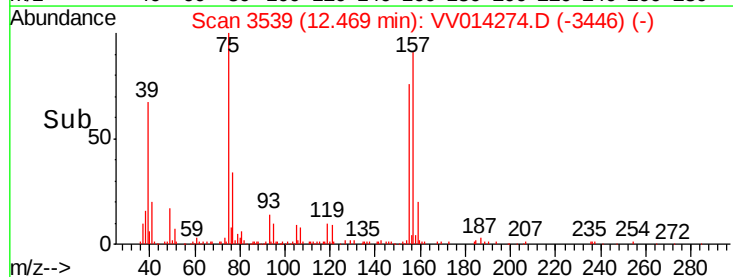
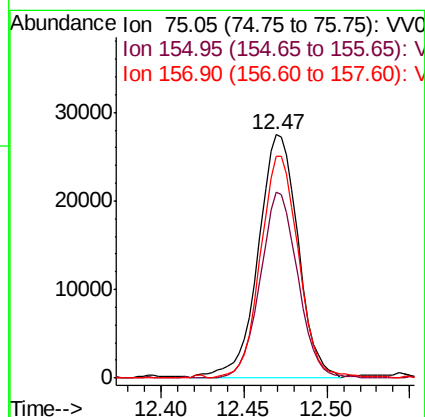
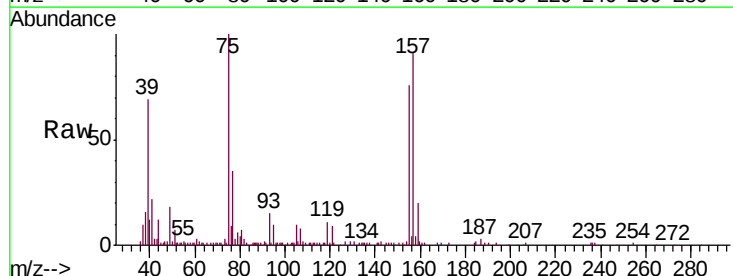
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

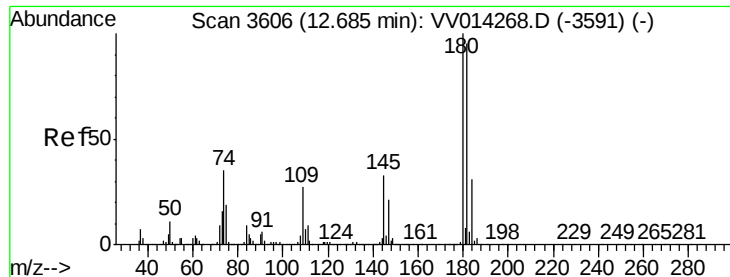
Tgt Ion: 146 Resp: 553597  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 36.4 54.6  
 148 64.2 51.3 76.9



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.171 ug/L  
 RT: 12.47 min Scan# 3539  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Tgt Ion: 75 Resp: 45964  
 Ion Ratio Lower Upper  
 75 100  
 155 76.3 56.9 85.3  
 157 91.2 82.0 123.0

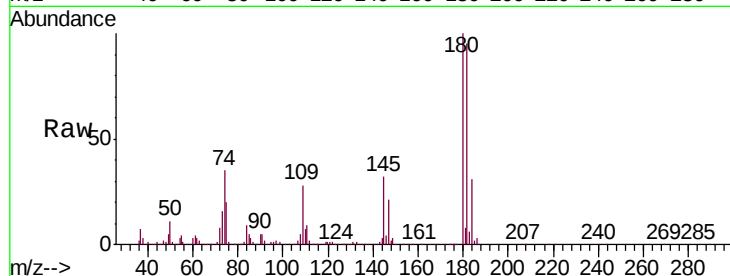




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.626 ug/L  
 RT: 12.69 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00553

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 446638 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.2  | 77.2  | 115.8  |
| 184      | 29.9  | 24.6  | 36.8   |
| 145      | 32.8  | 26.9  | 40.3   |



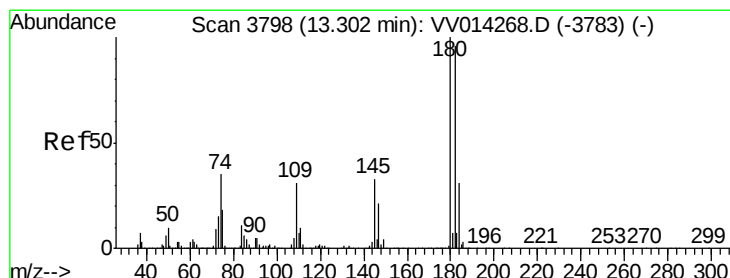
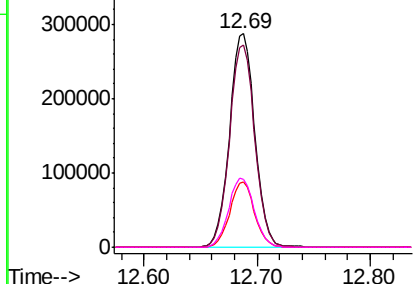
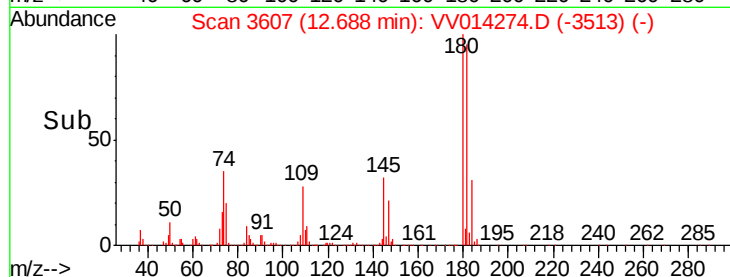
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

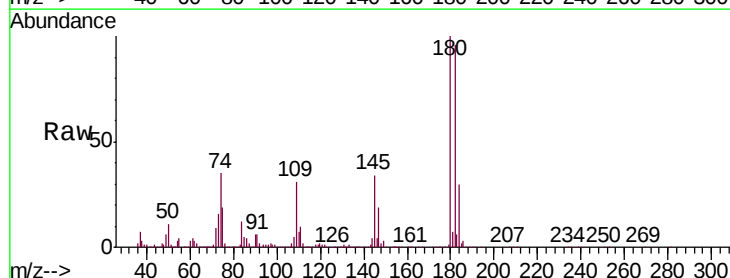
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.480 ug/L  
 RT: 13.30 min Scan# 3798  
 Delta R.T. 0.00 min  
 Lab File: VV014274.D  
 Acq: 10 Jan 2020 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 379367 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.5  | 75.2  | 112.8  |
| 145      | 34.2  | 26.2  | 39.4   |

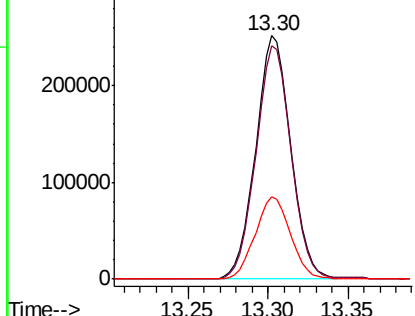
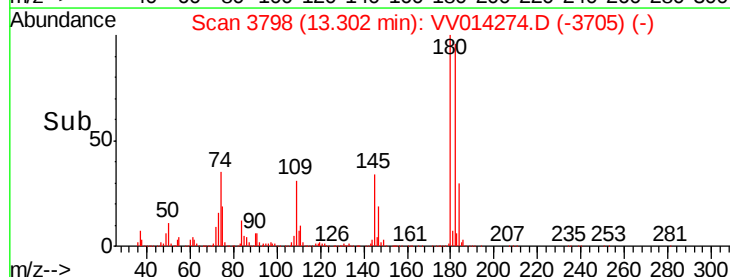


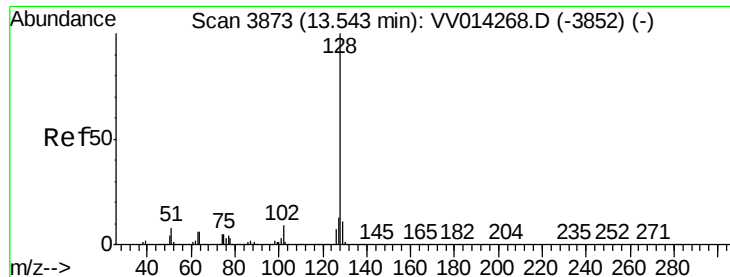
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.239 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

VSTD00553

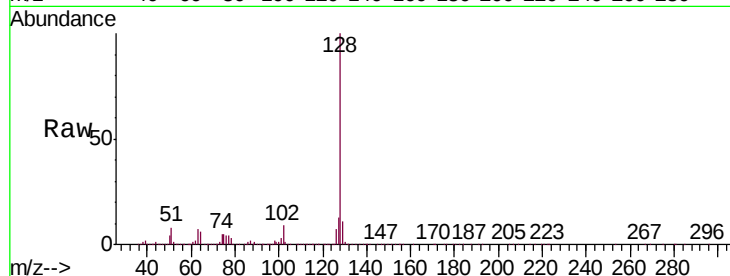
Tgt Ion:128 Resp: 729282

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

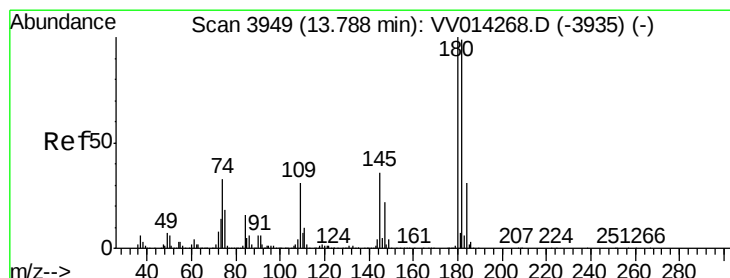
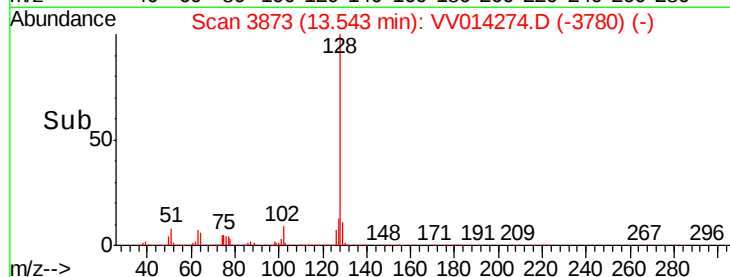
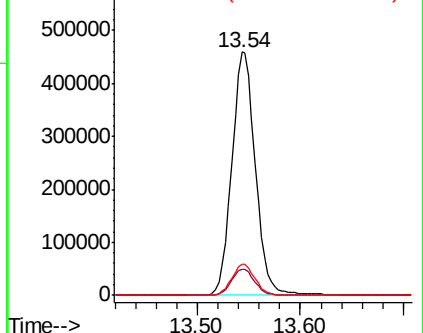
127 12.7 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.493 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014274.D

Acq: 10 Jan 2020 17:11

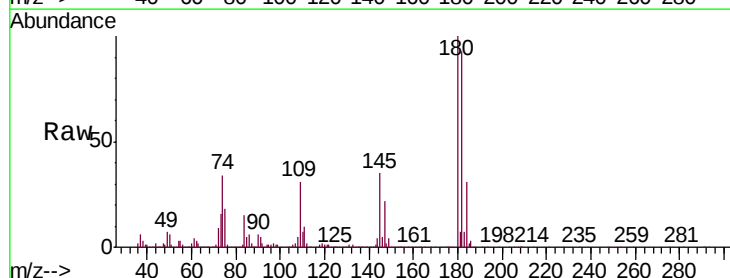
Tgt Ion:180 Resp: 334843

Ion Ratio Lower Upper

180 100

182 94.3 74.8 112.2

145 36.0 29.0 43.6



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

