

Data File : VV009860.D  
Acq On : 25 Mar 2019 14:17  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV69

Quant Time: Mar 26 07:09:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 07:03:00 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 204232   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 212235   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 105264   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 107155   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.76% |
| 7) Chloroethane-d5             | 1.56    | 69    | 130538   | 55.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 111.26% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 303491   | 49.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.74%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 98766    | 106.11   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.11% |
| 24) Chloroform-d               | 4.40    | 84    | 151081   | 52.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 97586    | 50.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.68% |
| 32) Benzene-d6                 | 5.10    | 84    | 309076   | 53.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.30% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 92750    | 52.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.38% |
| 41) Toluene-d8                 | 7.36    | 98    | 302198   | 53.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.14% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 45090    | 55.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 111.10% |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 79146    | 108.65   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.65% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 148616   | 51.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 121202   | 49.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.40%  |

#### Target Compounds

|                                |      |     |        |        | Qvalue  |
|--------------------------------|------|-----|--------|--------|---------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 75742  | 42.401 | ug/L 99 |
| 3) Chloromethane               | 1.25 | 50  | 78757  | 41.346 | ug/L 97 |
| 5) Vinyl chloride              | 1.32 | 62  | 113164 | 42.935 | ug/L 96 |
| 6) Bromomethane                | 1.51 | 94  | 96747  | 43.144 | ug/L 97 |
| 8) Chloroethane                | 1.58 | 64  | 88930  | 42.102 | ug/L 96 |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 246056 | 43.067 | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 141657 | 45.184 | ug/L 97 |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 121148 | 43.673 | ug/L 88 |
| 13) Acetone                    | 2.19 | 43  | 98355  | 88.737 | ug/L 97 |
| 14) Carbon disulfide           | 2.31 | 76  | 153228 | 41.916 | ug/L 99 |
| 15) Methyl Acetate             | 2.46 | 43  | 59798  | 41.966 | ug/L 99 |
| 16) Methylene chloride         | 2.53 | 84  | 66726  | 42.327 | ug/L 99 |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 62775  | 43.520 | ug/L 88 |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 189332 | 43.381 | ug/L 99 |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 115764 | 43.341 | ug/L 99 |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 71886  | 44.391 | ug/L 91 |
| 22) 2-Butanone                 | 4.02 | 43  | 103249 | 93.608 | ug/L 95 |

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Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 07:03:00 2019  
Response via : Initial Calibration

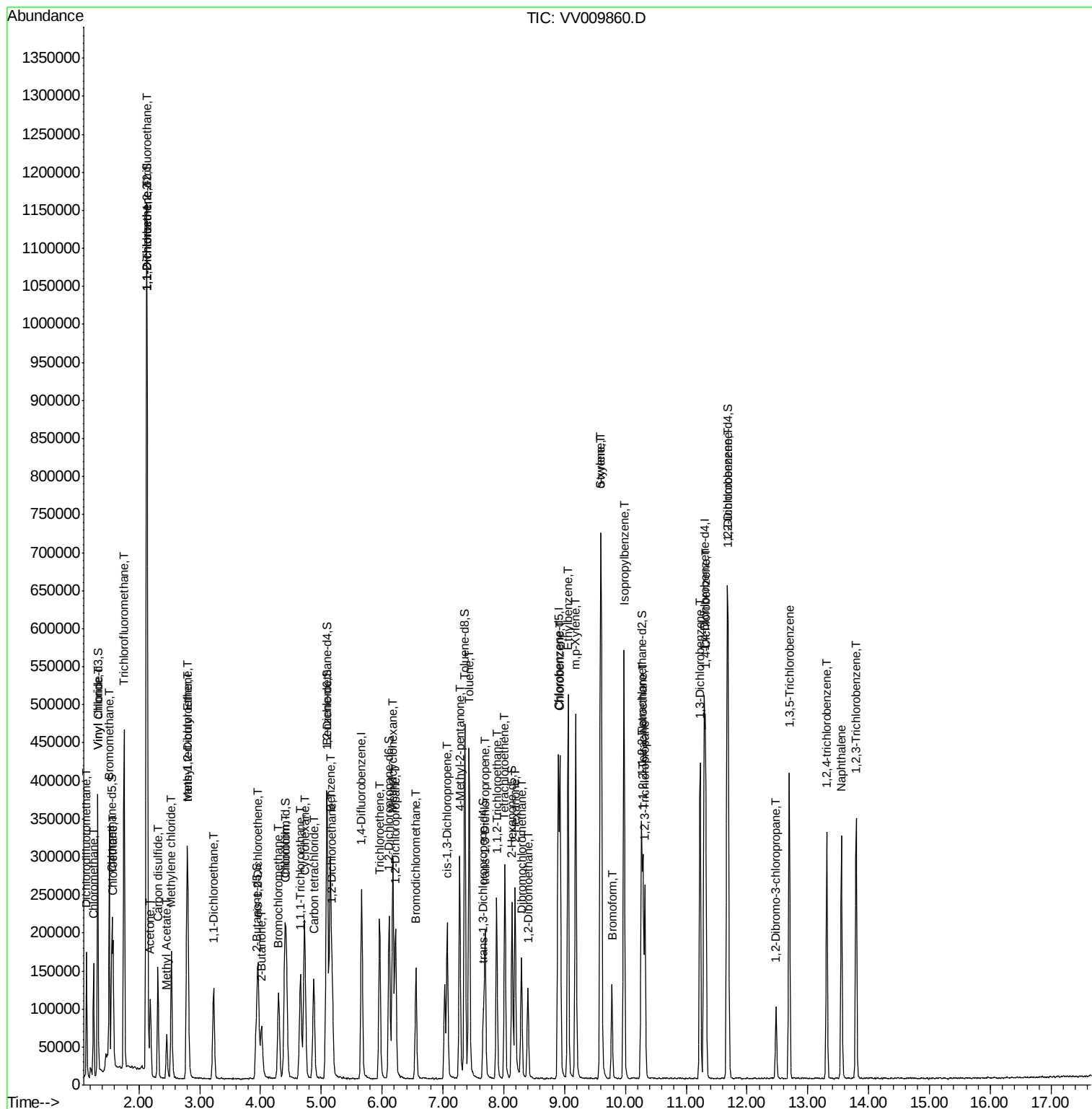
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 34848    | 43.143 | ug/L   | 95       |
| 25) Chloroform                 | 4.42  | 83   | 120738   | 41.725 | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 97797    | 41.481 | ug/L   | 99       |
| 29) Cyclohexane                | 4.72  | 56   | 105196   | 45.228 | ug/L   | 96       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 103258   | 43.931 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 88981    | 43.815 | ug/L   | 98       |
| 33) Benzene                    | 5.15  | 78   | 265598   | 42.866 | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 64041    | 41.471 | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.18  | 83   | 112309   | 43.653 | ug/L   | 96       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 71095    | 44.583 | ug/L   | 99       |
| 38) Bromodichloromethane       | 6.56  | 83   | 86755    | 43.313 | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 104519   | 45.549 | ug/L   | 95       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 192889   | 88.384 | ug/L   | 98       |
| 42) Toluene                    | 7.43  | 91   | 300908   | 42.465 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 96011    | 45.016 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 66490    | 42.560 | ug/L   | 98       |
| 46) Tetrachloroethene          | 8.02  | 164  | 54502    | 43.629 | ug/L   | 97       |
| 48) 2-Hexanone                 | 8.18  | 43   | 161534   | 97.624 | ug/L   | 96       |
| 49) Dibromochloromethane       | 8.29  | 129  | 70886    | 43.450 | ug/L   | 94       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 72443    | 43.626 | ug/L   | 94       |
| 51) Chlorobenzene              | 8.93  | 112  | 201978   | 43.028 | ug/L   | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 347036   | 43.552 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.18  | 106  | 135248   | 43.554 | ug/L   | 99       |
| 54) o-xylene                   | 9.59  | 106  | 135928   | 42.838 | ug/L   | 97       |
| 55) Styrene                    | 9.60  | 104  | 226551   | 43.063 | ug/L   | 98       |
| 56) Isopropylbenzene           | 9.98  | 105  | 354438   | 43.902 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 123826   | 43.201 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 89222    | 41.486 | ug/L   | 99       |
| 61) Bromoform                  | 9.78  | 173  | 44606    | 38.180 | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 153547   | 42.584 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 156300   | 41.344 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 157939   | 41.461 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 18940    | 38.977 | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 109016   | 44.314 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 82585    | 42.133 | ug/L   | 98       |
| 69) Naphthalene                | 13.55 | 128  | 228579   | 44.343 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 87307    | 44.031 | ug/L   | 99       |

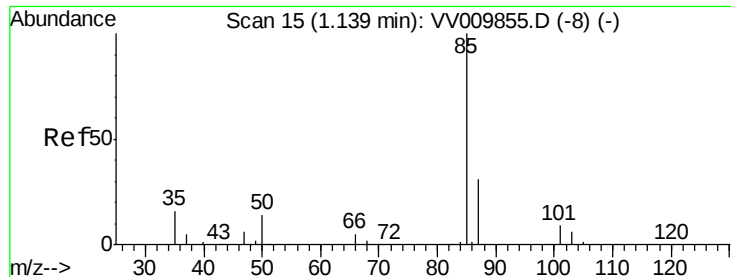
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 42.401 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

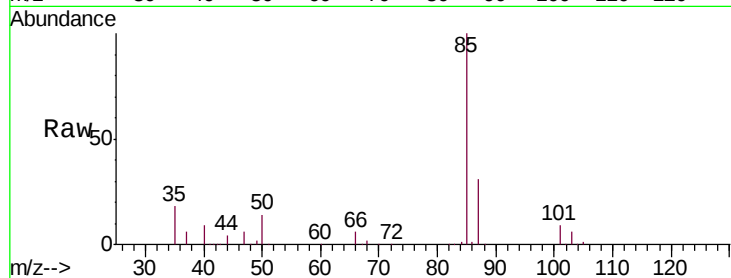
VICV69

Tgt Ion: 85 Resp: 75742

Ion Ratio Lower Upper

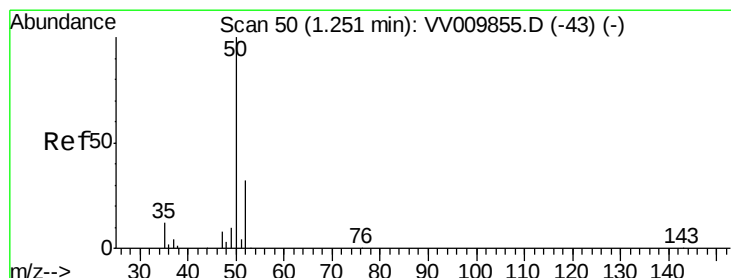
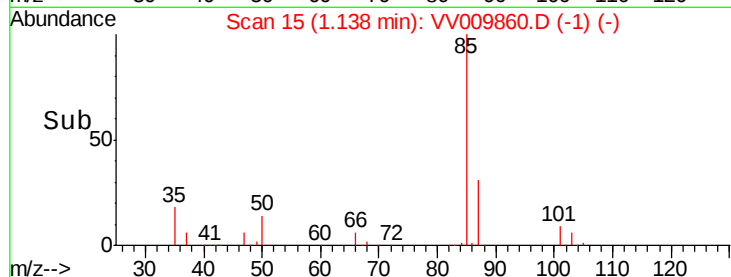
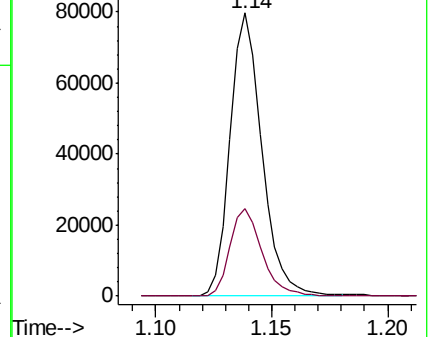
85 100

87 31.3 24.6 37.0



Abundance Ion 85.00 (84.70 to 85.70): VV009855.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009855.D (-8) (-)



#3

Chloromethane

Concen: 41.346 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV009860.D

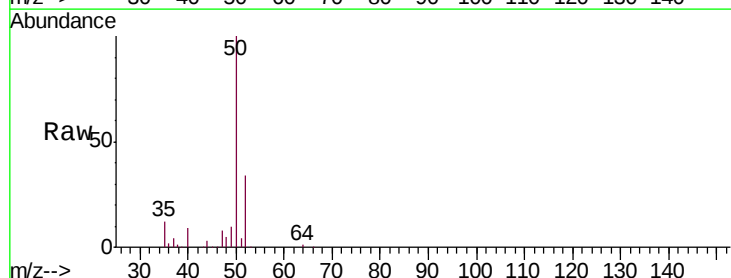
Acq: 25 Mar 2019 14:17

Tgt Ion: 50 Resp: 78757

Ion Ratio Lower Upper

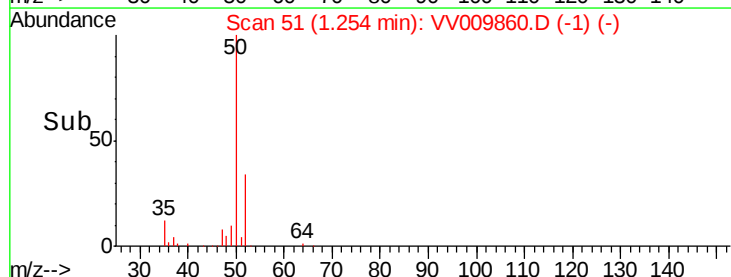
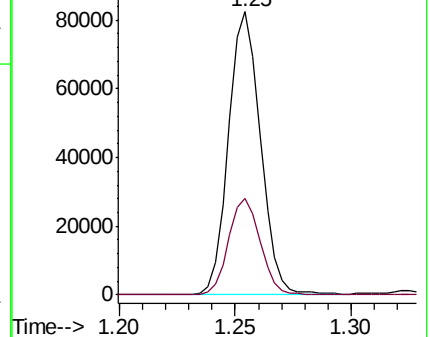
50 100

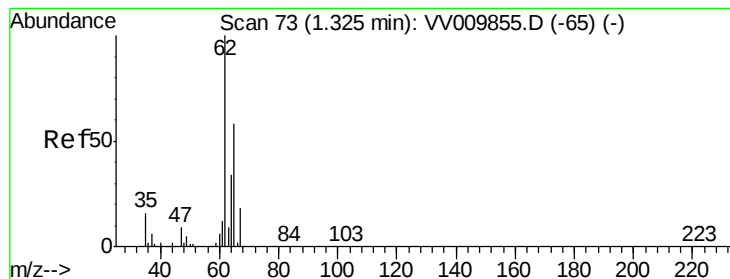
52 34.0 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VV009855.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009855.D (-43) (-)





#5

Vinyl chloride

Concen: 42.935 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampled :

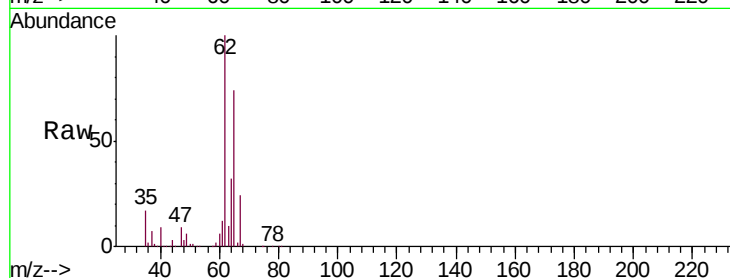
VICV69

Tgt Ion: 62 Resp: 113164

Ion Ratio Lower Upper

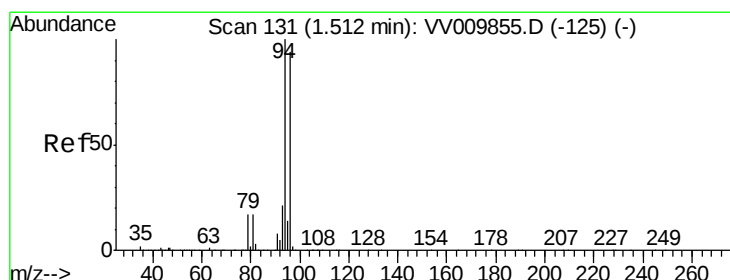
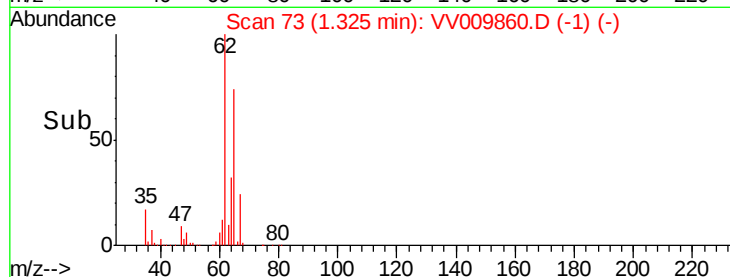
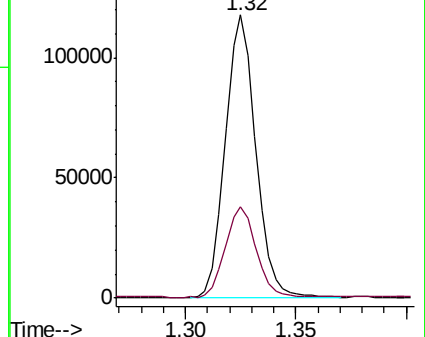
62 100

64 32.2 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VV009855.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009855.D (-65) (-)



#6

Bromomethane

Concen: 43.144 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.00 min

Lab File: VV009860.D

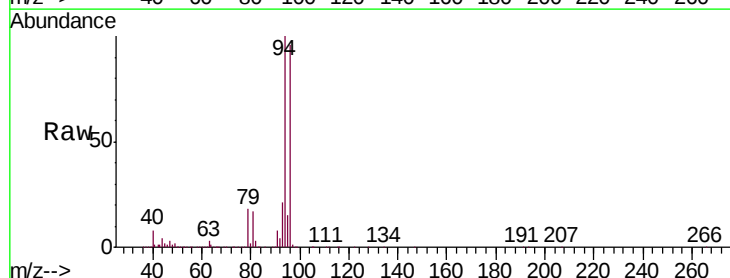
Acq: 25 Mar 2019 14:17

Tgt Ion: 94 Resp: 96747

Ion Ratio Lower Upper

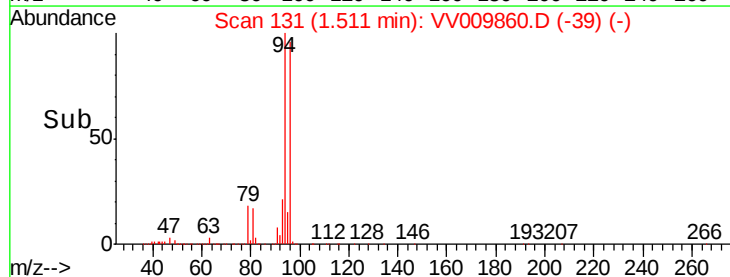
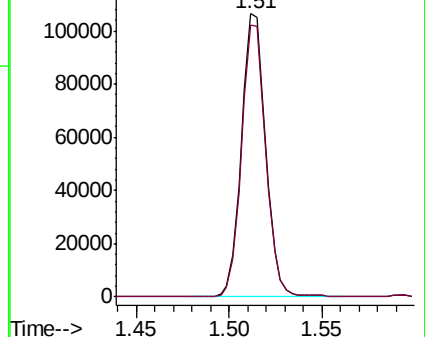
94 100

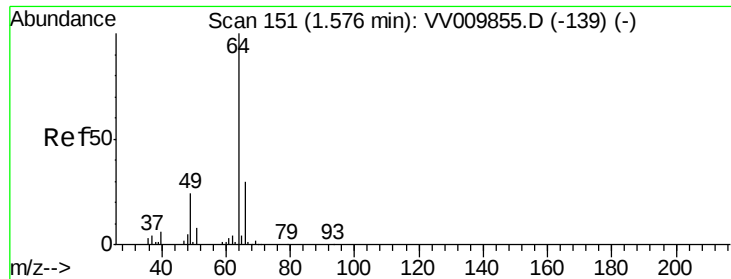
96 96.1 65.4 121.4



Abundance Ion 94.00 (93.70 to 94.70): VV009855.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV009855.D (-125) (-)





#8

Chloroethane

Concen: 42.102 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.01 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

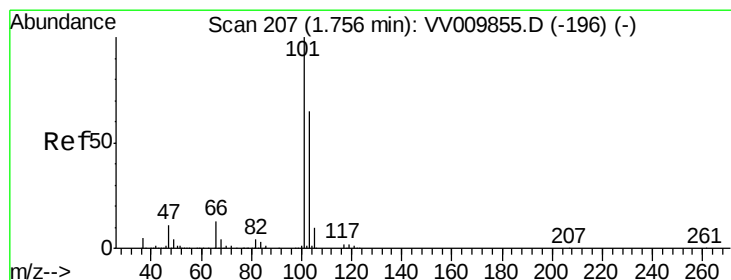
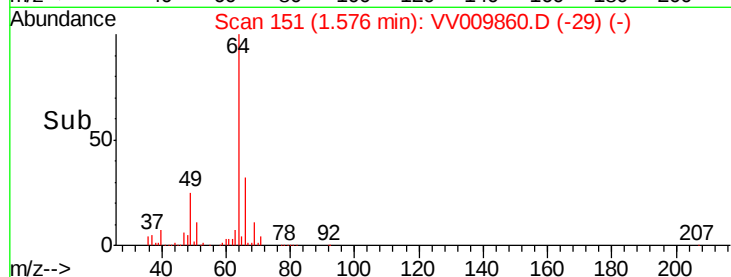
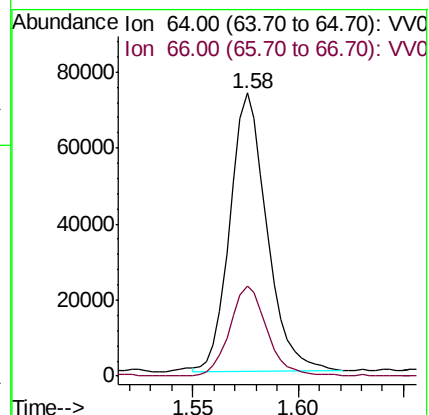
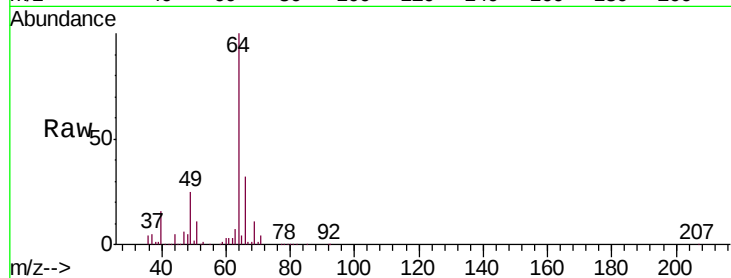
VICV69

Tgt Ion: 64 Resp: 88930

Ion Ratio Lower Upper

64 100

66 31.8 20.9 38.7



#9

Trichlorofluoromethane

Concen: 43.067 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.01 min

Lab File: VV009860.D

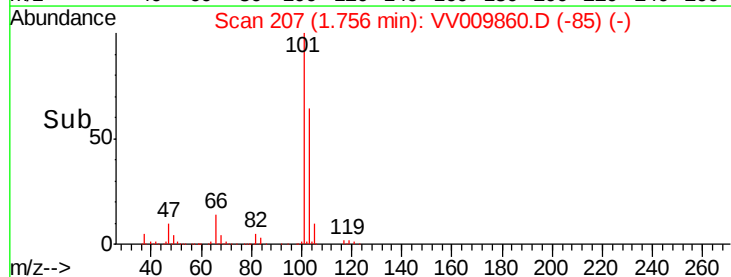
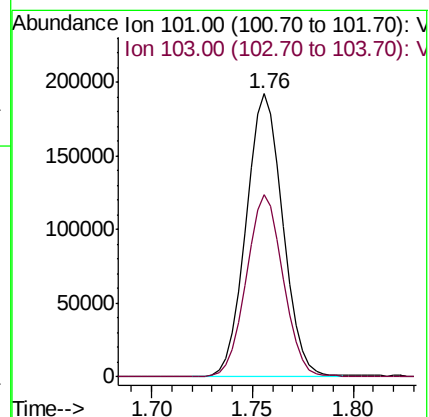
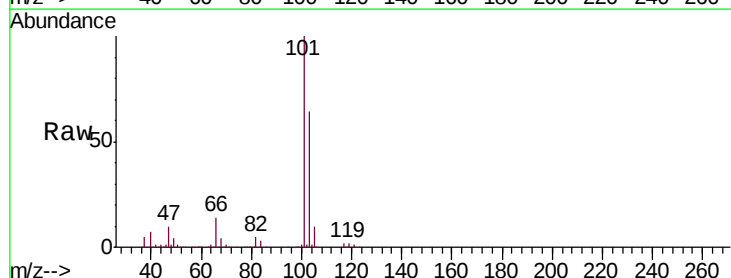
Acq: 25 Mar 2019 14:17

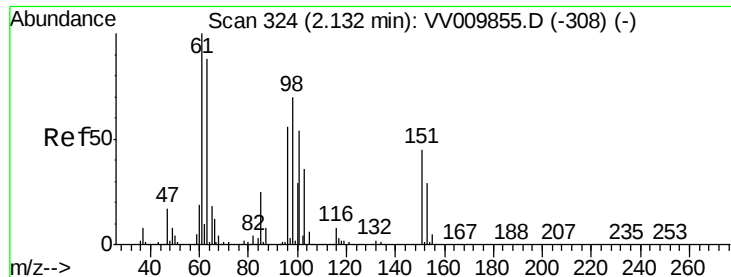
Tgt Ion: 101 Resp: 246056

Ion Ratio Lower Upper

101 100

103 64.3 52.2 78.4





#10

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

Concen: 45.184 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampled :

VICV69

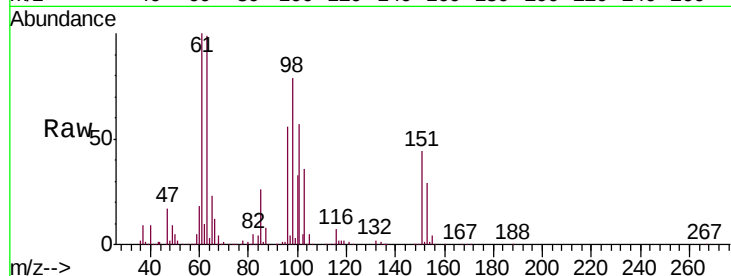
Tgt Ion: 101 Resp: 141657

Ion Ratio Lower Upper

101 100

85 45.2 37.0 55.4

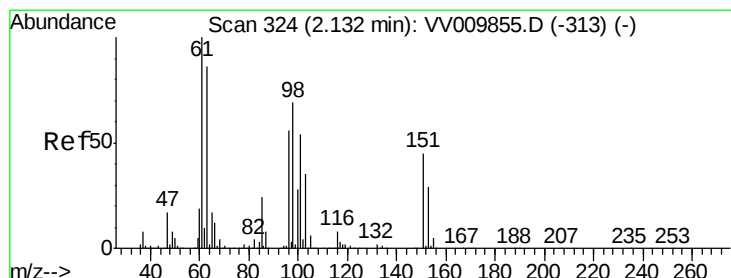
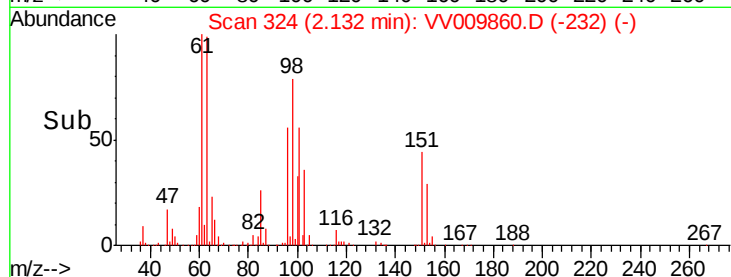
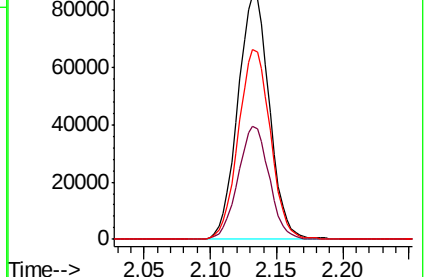
151 78.5 65.4 98.2



Abundance Ion 101.00 (100.70 to 101.70): VV009855.D (-308) (-)

Ion 85.00 (84.70 to 85.70): VV009855.D (-308) (-)

Ion 151.00 (150.70 to 151.70): VV009855.D (-308) (-)



#12

1,1-Dichloroethene

Concen: 43.673 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

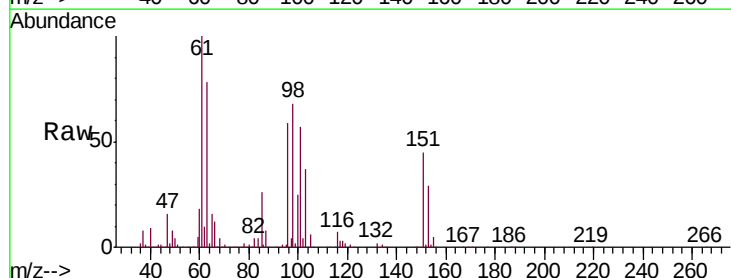
Tgt Ion: 96 Resp: 121148

Ion Ratio Lower Upper

96 100

61 170.3 125.3 232.7

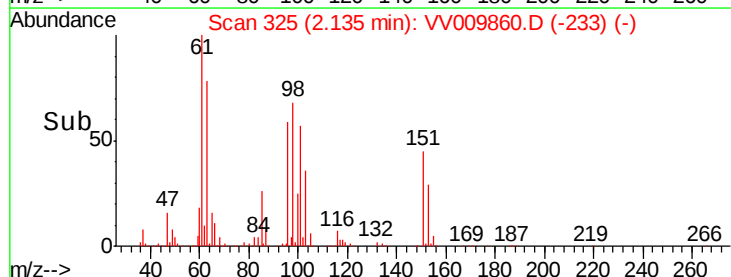
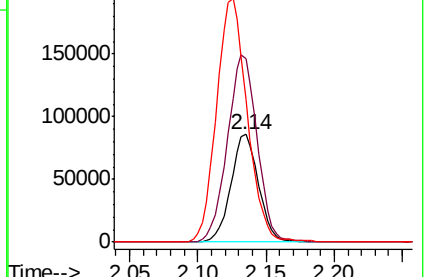
63 132.5 109.7 203.7

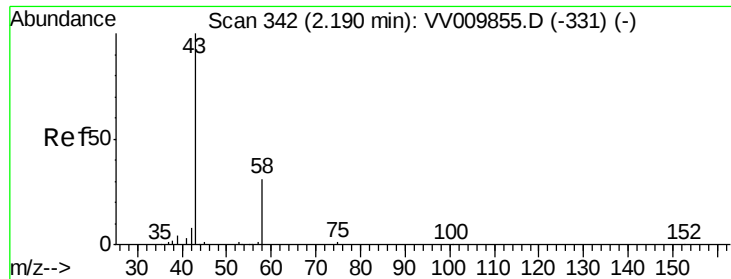


Abundance Ion 96.00 (95.70 to 96.70): VV009855.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV009855.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV009855.D (-313) (-)





#13

Acetone

Concen: 88.737 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

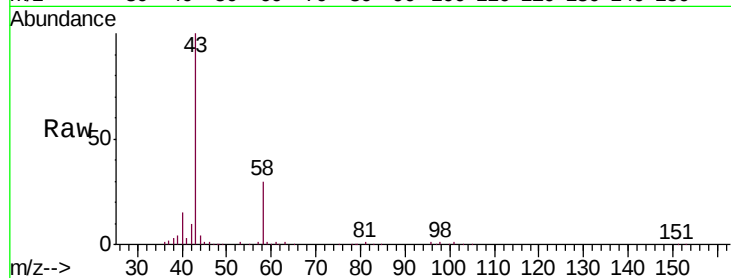
VICV69

Tgt Ion: 43 Resp: 98355

Ion Ratio Lower Upper

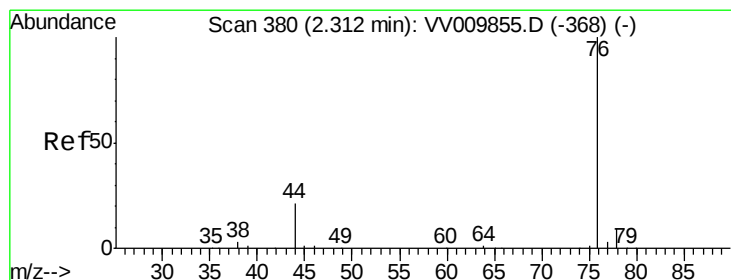
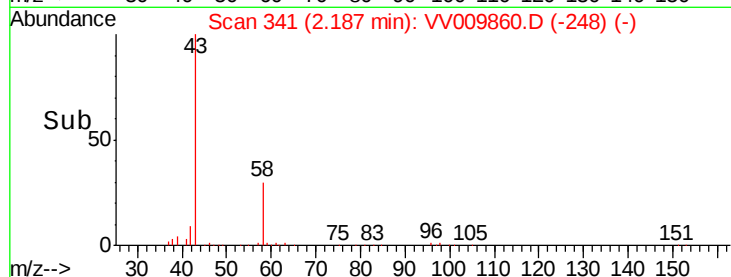
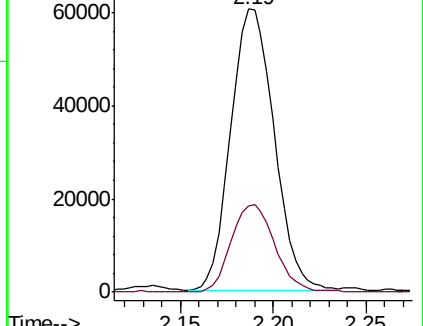
43 100

58 31.1 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV009855.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009855.D (-331) (-)



#14

Carbon disulfide

Concen: 41.916 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009860.D

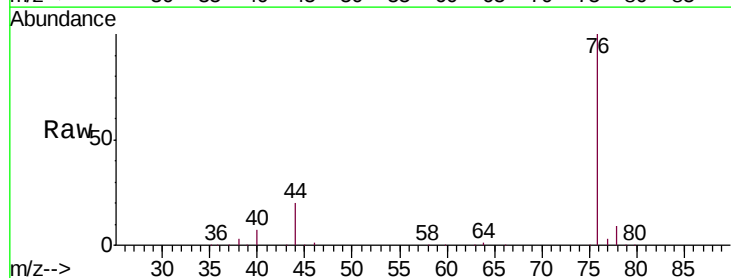
Acq: 25 Mar 2019 14:17

Tgt Ion: 76 Resp: 153228

Ion Ratio Lower Upper

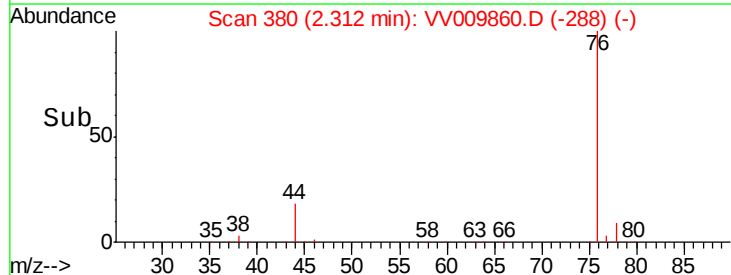
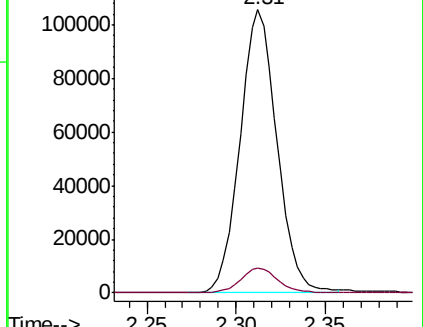
76 100

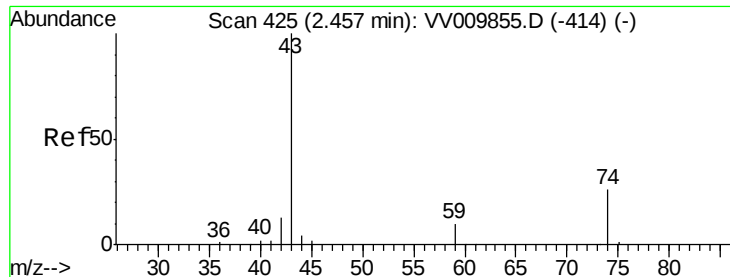
78 8.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV009855.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV009855.D (-368) (-)





#15

Methyl Acetate

Concen: 41.966 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

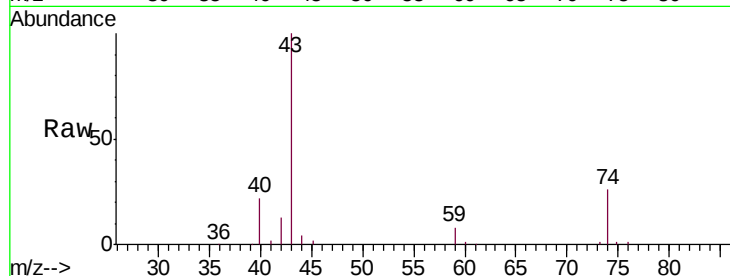
VICV69

Tgt Ion: 43 Resp: 59798

Ion Ratio Lower Upper

43 100

74 25.4 20.6 31.0

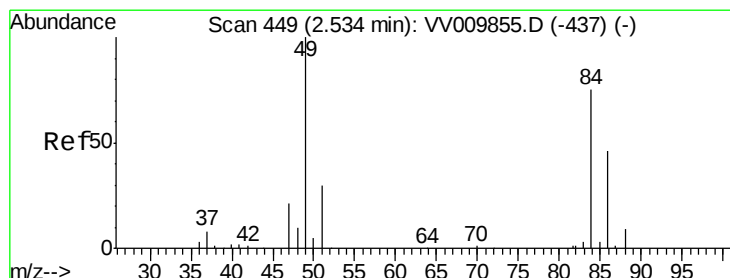
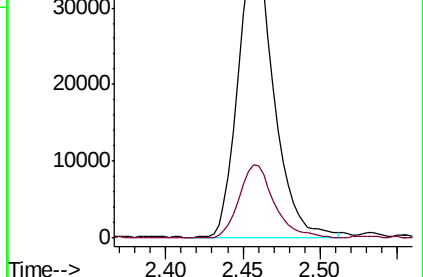
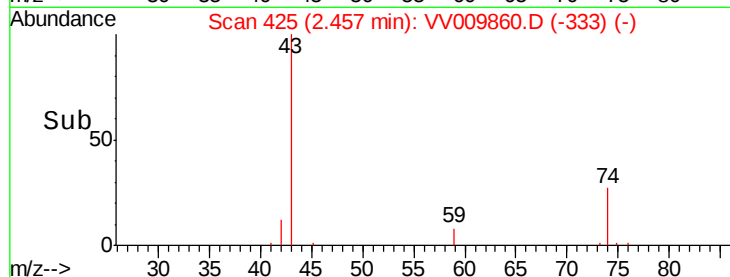


Abundance Ion 43.00 (42.70 to 43.70): VV009855.D (-414) (-)

Ion 74.00 (73.70 to 74.70): VV009855.D (-414) (-)

2.46

Time-->



#16

Methylene chloride

Concen: 42.327 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

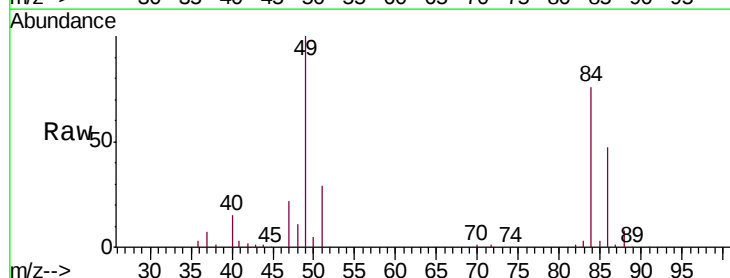
Tgt Ion: 84 Resp: 66726

Ion Ratio Lower Upper

84 100

86 62.3 42.8 79.4

49 132.2 93.7 173.9



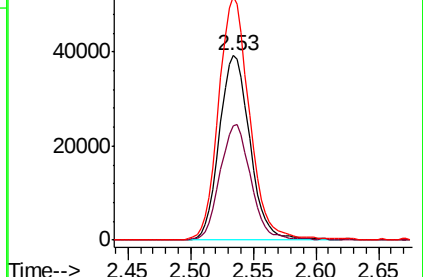
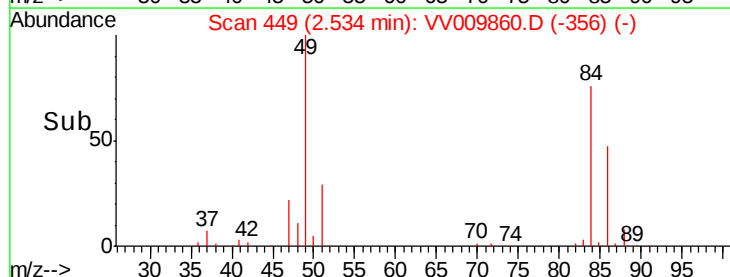
Abundance Ion 84.00 (83.70 to 84.70): VV009855.D (-437) (-)

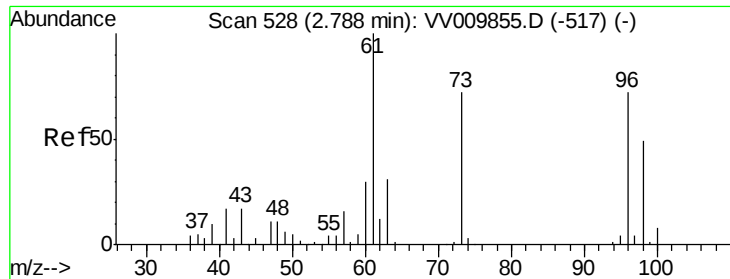
Ion 86.00 (85.70 to 86.70): VV009855.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV009855.D (-437) (-)

2.53

Time-->





#17

trans-1,2-Dichloroethene

Concen: 43.520 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

VICV69

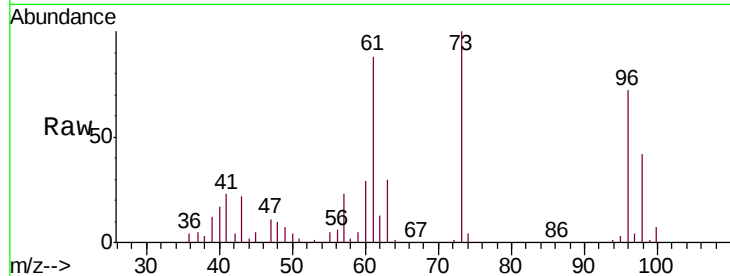
Tgt Ion: 96 Resp: 62775

Ion Ratio Lower Upper

96 100

61 121.9 96.9 179.9

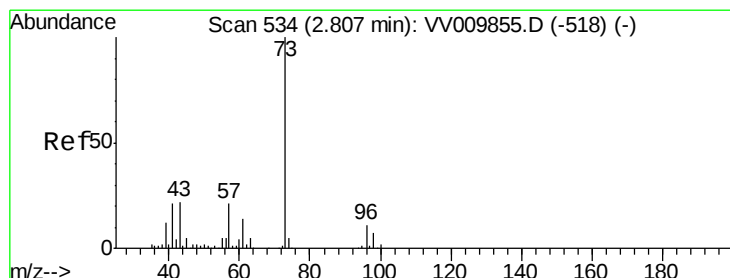
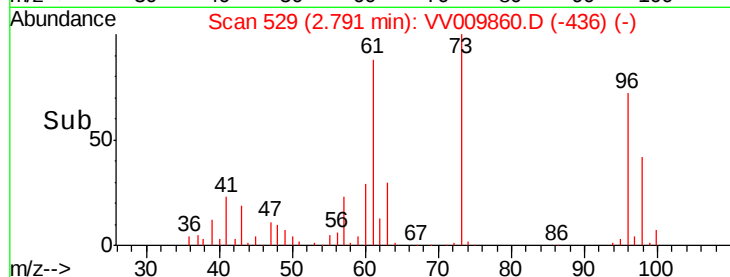
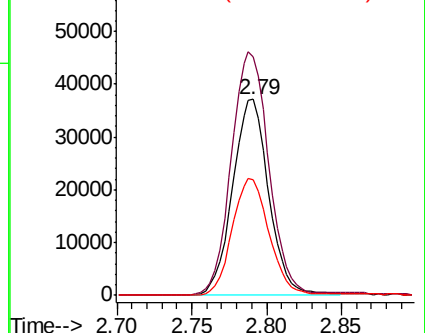
98 58.9 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VV009855.D (-517) (-)

Ion 61.00 (60.70 to 61.70): VV009855.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV009855.D (-517) (-)



#18

Methyl tert-butyl Ether

Concen: 43.381 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

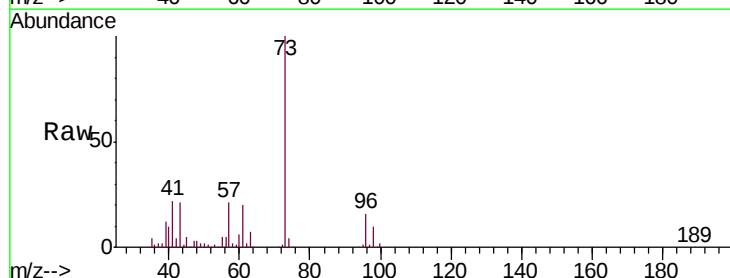
Tgt Ion: 73 Resp: 189332

Ion Ratio Lower Upper

73 100

43 21.3 17.1 25.7

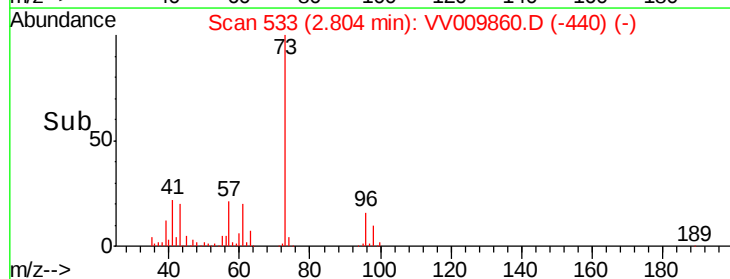
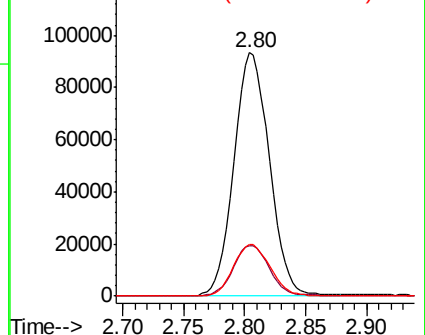
57 22.1 16.9 25.3

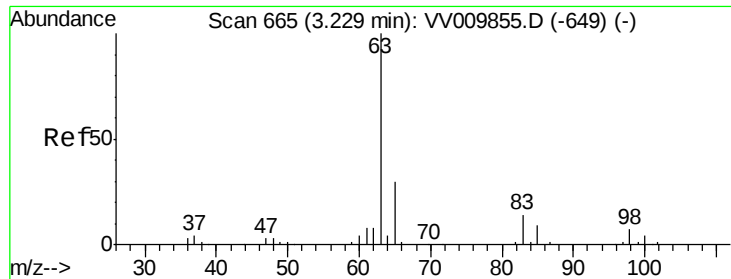


Abundance Ion 73.00 (72.70 to 73.70): VV009855.D (-518) (-)

Ion 43.00 (42.70 to 43.70): VV009855.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VV009855.D (-518) (-)

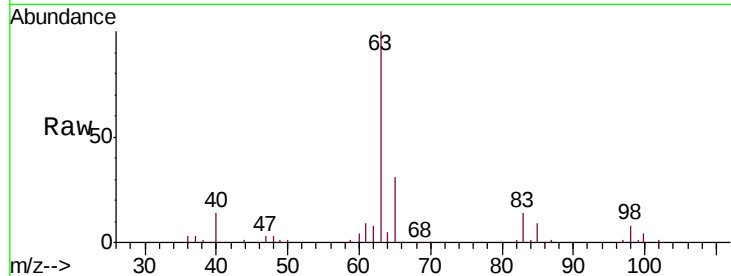




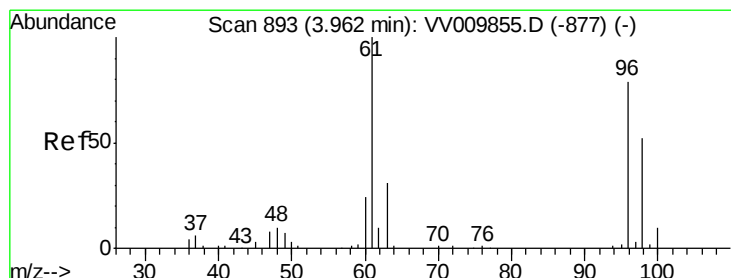
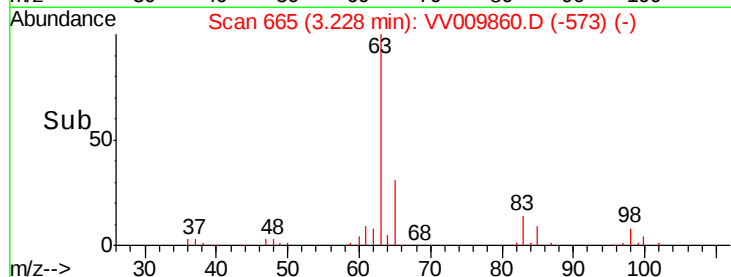
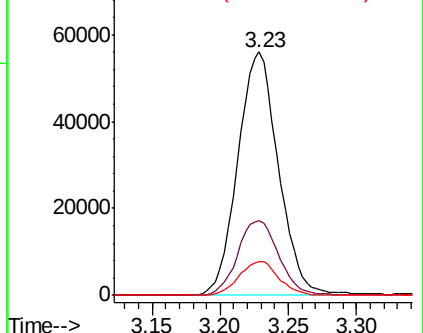
#19  
 1,1-Dichloroethane  
 Concen: 43.341 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VICV69

Tgt Ion: 63 Resp: 115764  
 Ion Ratio Lower Upper  
 63 100  
 65 30.5 20.8 38.6  
 83 13.9 9.7 17.9

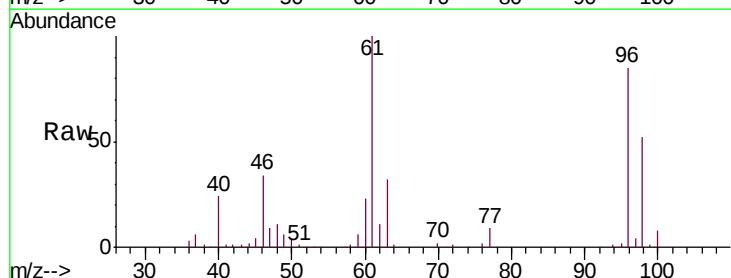


Abundance Ion 63.00 (62.70 to 63.70): VV0  
 Ion 65.00 (64.70 to 65.70): VV0  
 Ion 83.00 (82.70 to 83.70): VV0

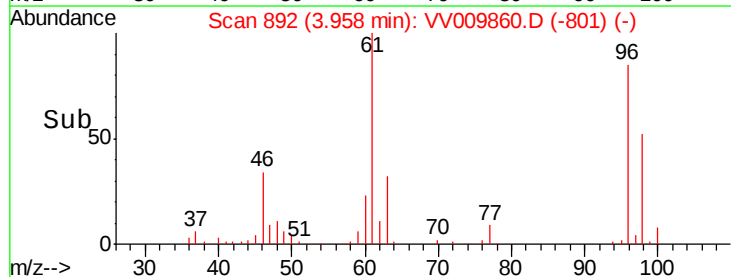
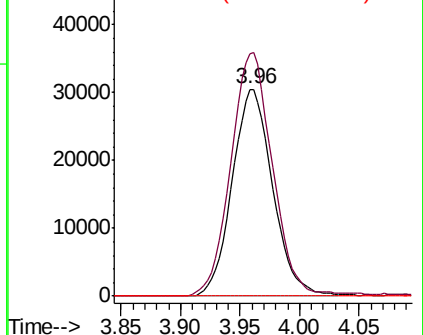


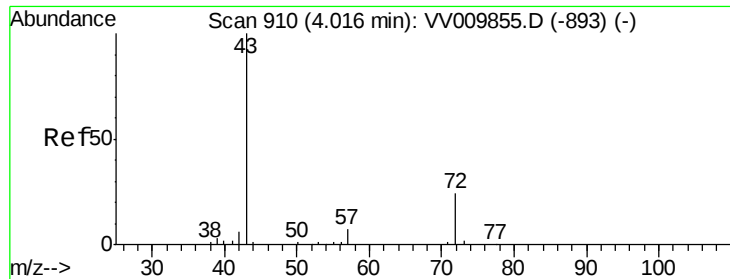
#20  
 cis-1,2-Dichloroethene  
 Concen: 44.391 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. -0.01 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

Tgt Ion: 96 Resp: 71886  
 Ion Ratio Lower Upper  
 96 100  
 61 117.1 89.4 166.0  
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 93.608 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.01 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

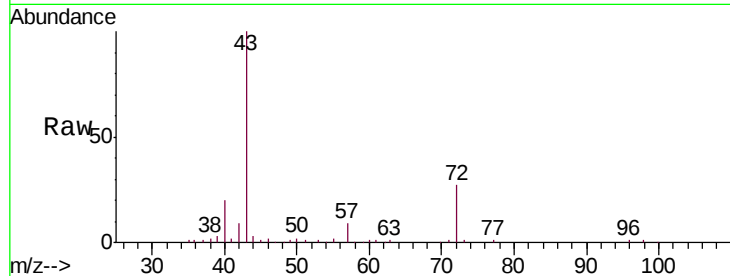
VICV69

Tgt Ion: 43 Resp: 103249

Ion Ratio Lower Upper

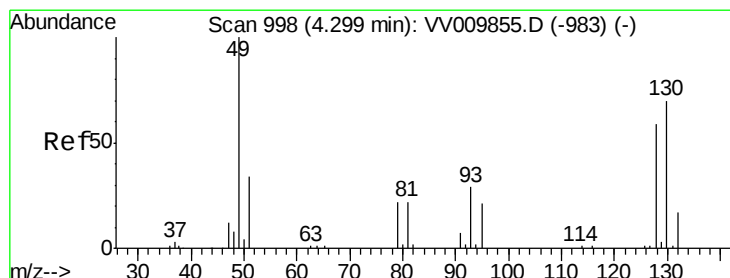
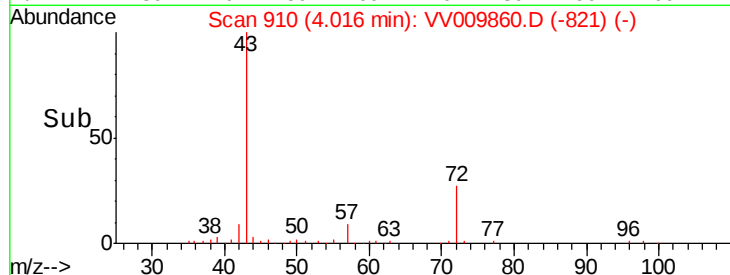
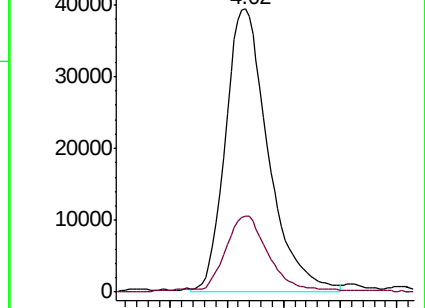
43 100

72 27.5 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VV009855.D (-893) (-)

Ion 72.00 (71.70 to 72.70): VV009855.D (-893) (-)



#23

Bromochloromethane

Concen: 43.143 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.01 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Tgt Ion: 128 Resp: 34848

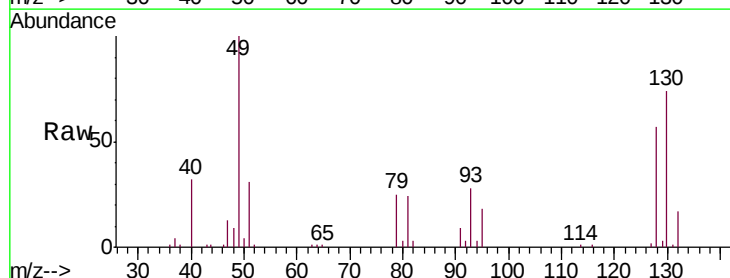
Ion Ratio Lower Upper

128 100

49 176.6 120.5 223.9

130 129.8 84.0 156.0

51 55.1 46.9 70.3

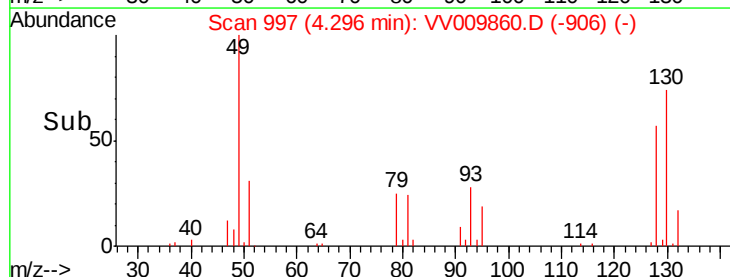
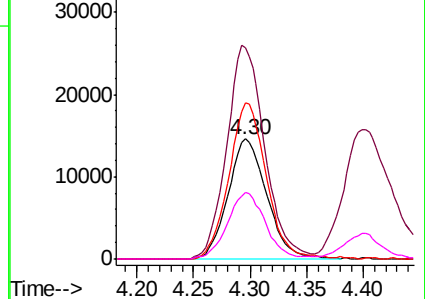


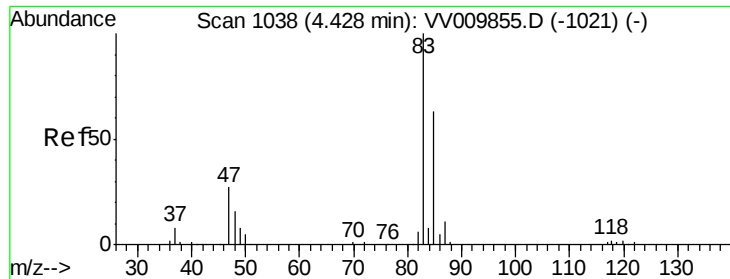
Abundance Ion 128.00 (127.70 to 128.70): VV009855.D (-983) (-)

Ion 49.00 (48.70 to 49.70): VV009855.D (-983) (-)

Ion 130.00 (129.70 to 130.70): VV009855.D (-983) (-)

Ion 51.00 (50.70 to 51.70): VV009855.D (-983) (-)

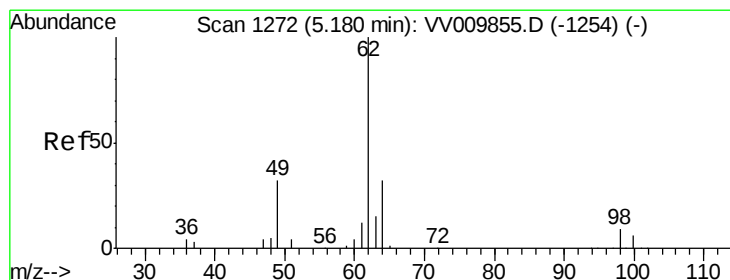
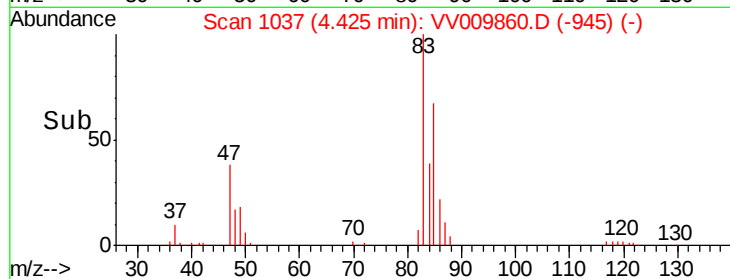
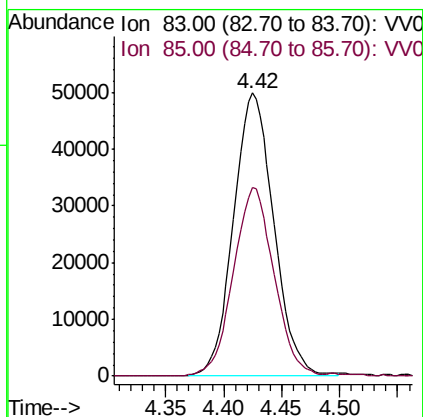
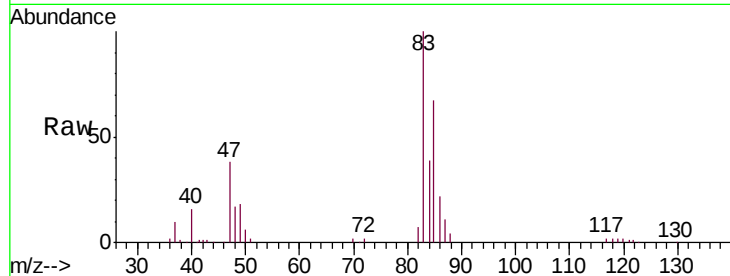




#25  
Chloroform  
Concen: 41.725 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

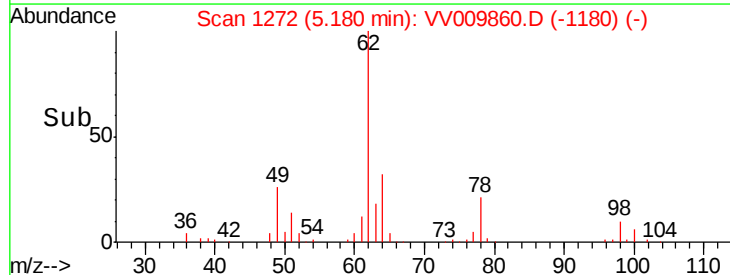
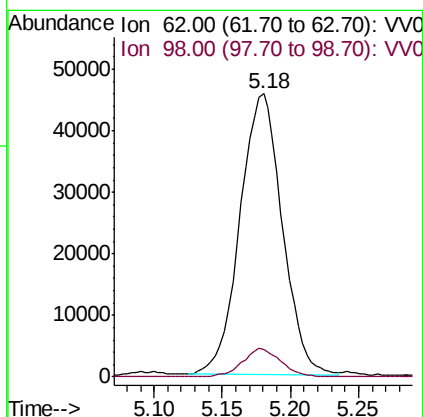
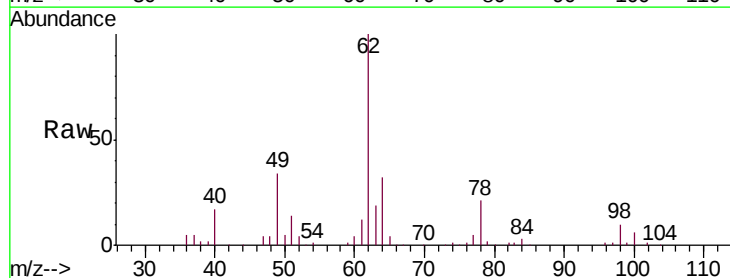
Instrument :  
MSVOA\_V  
ClientSampled :  
VICV69

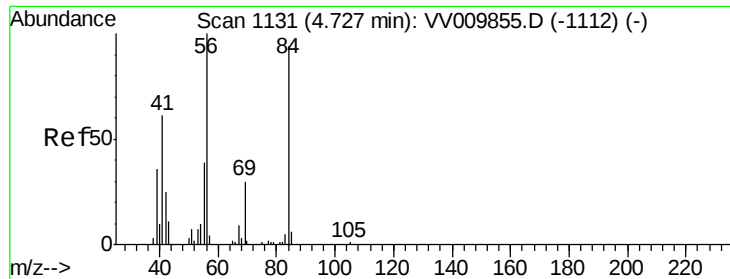
Tgt Ion: 83 Resp: 120738  
Ion Ratio Lower Upper  
83 100  
85 66.5 44.7 82.9



#27  
1,2-Dichloroethane  
Concen: 41.481 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Tgt Ion: 62 Resp: 97797  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.4 11.2

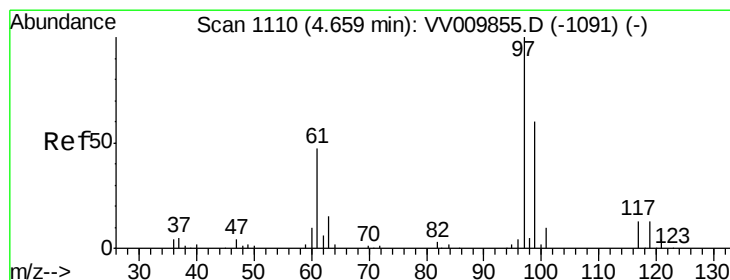
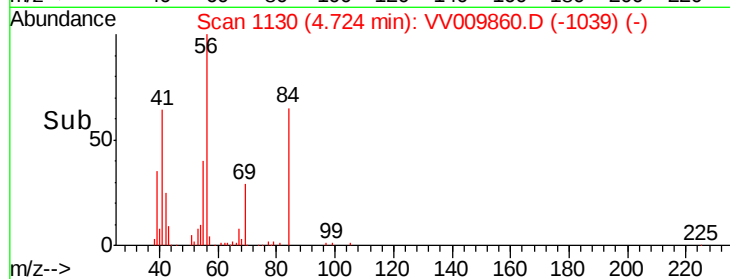
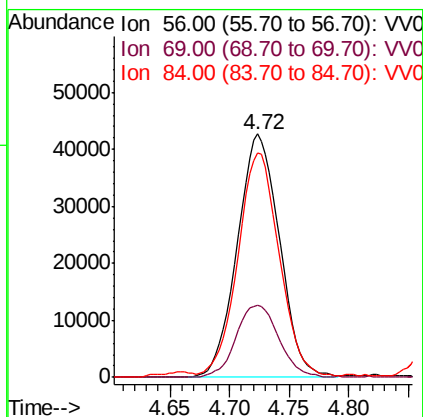
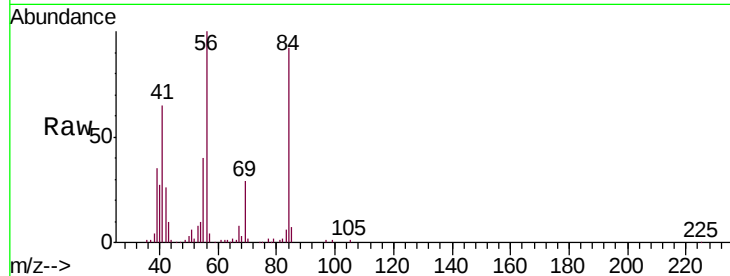




#29  
Cyclohexane  
Concen: 45.228 ug/L  
RT: 4.72 min Scan# 1130  
Delta R.T. -0.01 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

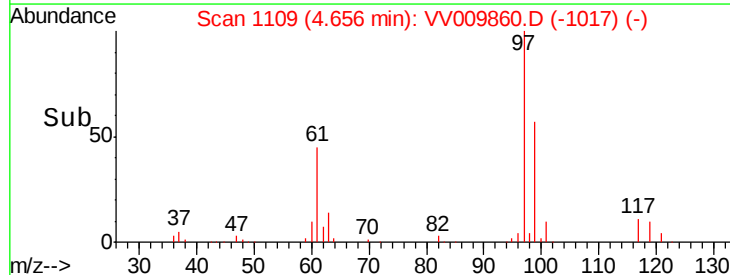
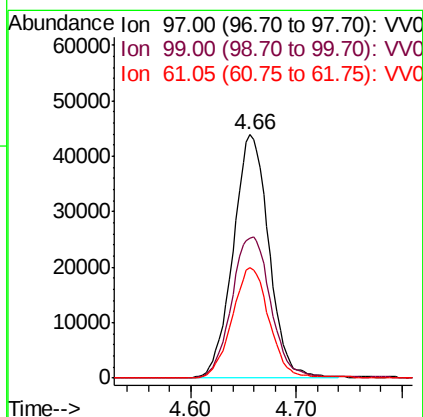
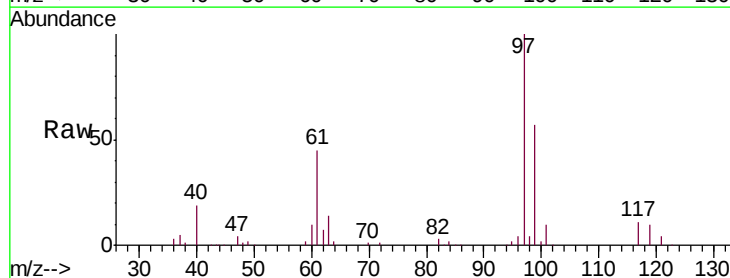
Instrument :  
MSVOA\_V  
ClientSampled :  
VICV69

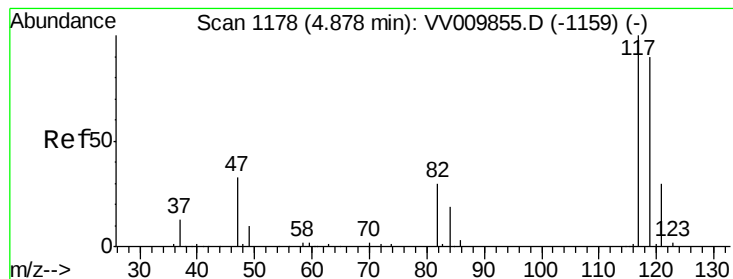
Tgt Ion: 56 Resp: 105196  
Ion Ratio Lower Upper  
56 100  
69 29.9 23.4 35.0  
84 89.0 75.0 112.6



#30  
1,1,1-Trichloroethane  
Concen: 43.931 ug/L  
RT: 4.66 min Scan# 1109  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Tgt Ion: 97 Resp: 103258  
Ion Ratio Lower Upper  
97 100  
99 62.9 49.1 73.7  
61 46.5 37.6 56.4





#31

Carbon tetrachloride

Concen: 43.815 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

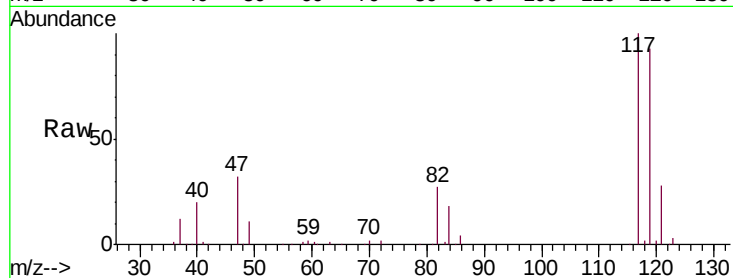
VICV69

Tgt Ion:117 Resp: 88981

Ion Ratio Lower Upper

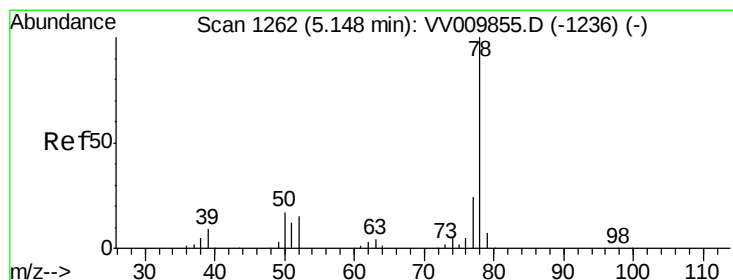
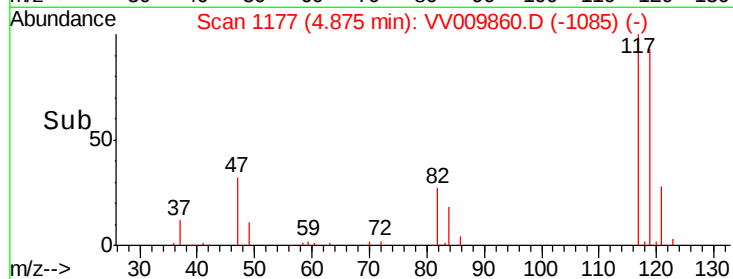
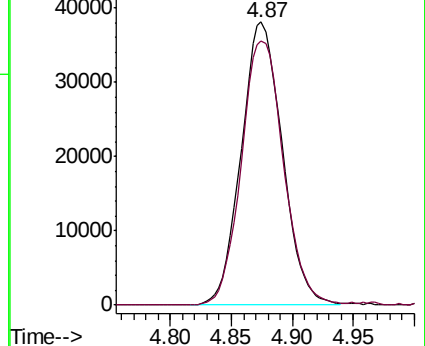
117 100

119 95.7 75.4 113.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 42.866 ug/L

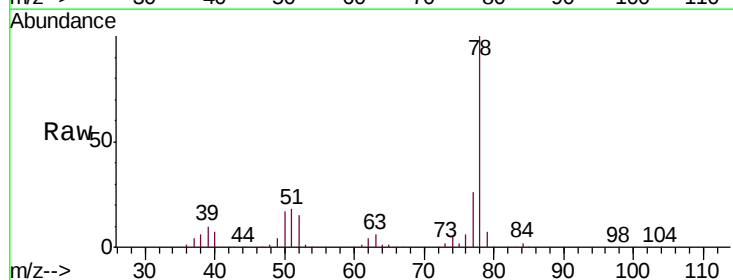
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

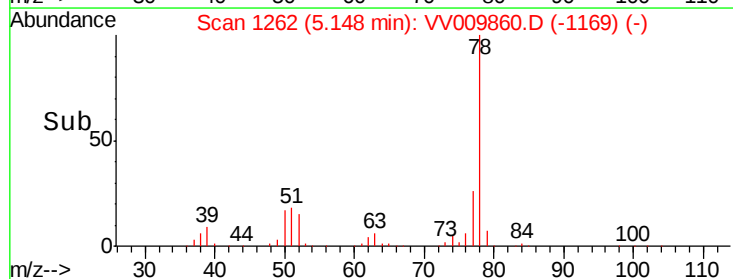
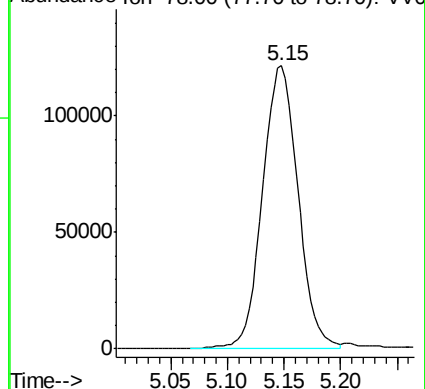
Lab File: VV009860.D

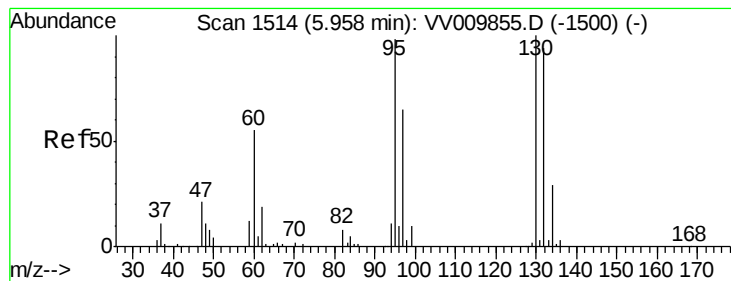
Acq: 25 Mar 2019 14:17

Tgt Ion: 78 Resp: 265598



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 41.471 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampled :

VICV69

Tgt Ion: 95 Resp: 64041

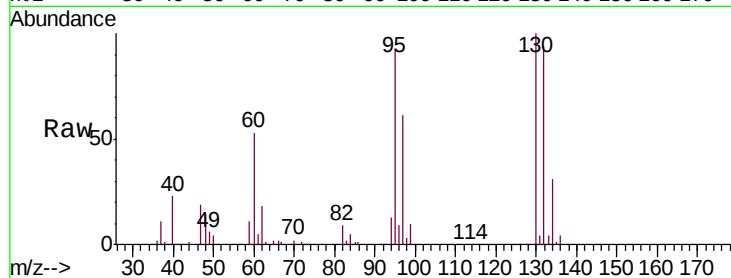
Ion Ratio Lower Upper

95 100

97 65.9 46.1 85.5

132 100.8 67.0 124.4

130 107.6 71.4 132.6

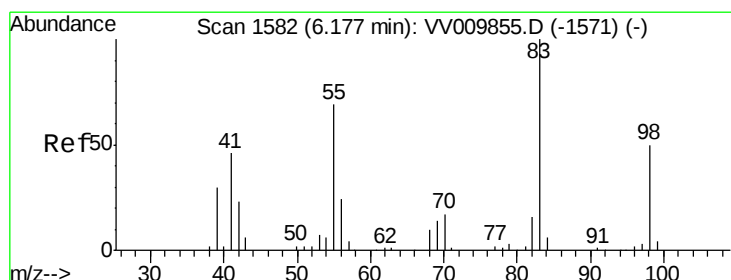
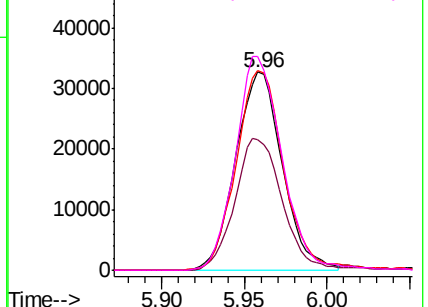
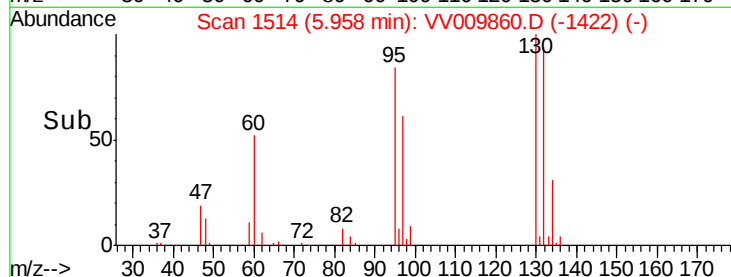


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 43.653 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

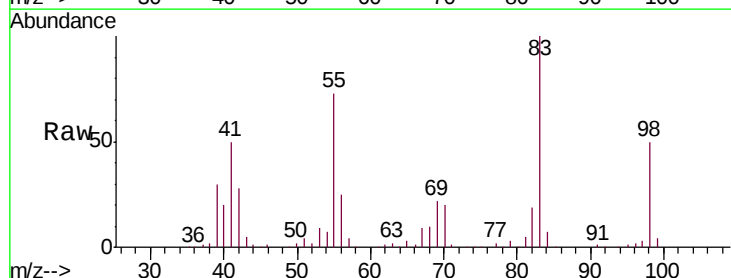
Tgt Ion: 83 Resp: 112309

Ion Ratio Lower Upper

83 100

55 73.8 55.5 83.3

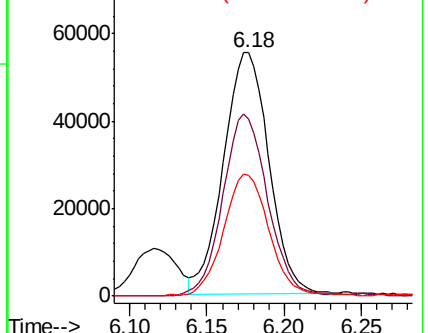
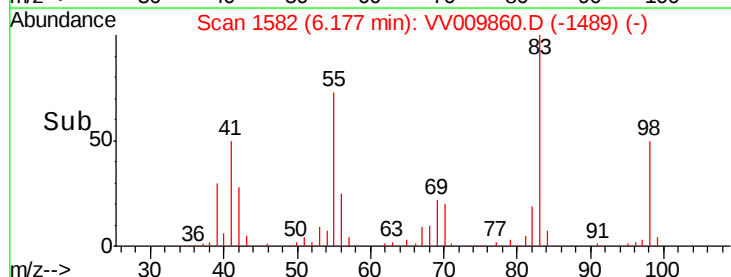
98 49.3 40.2 60.2

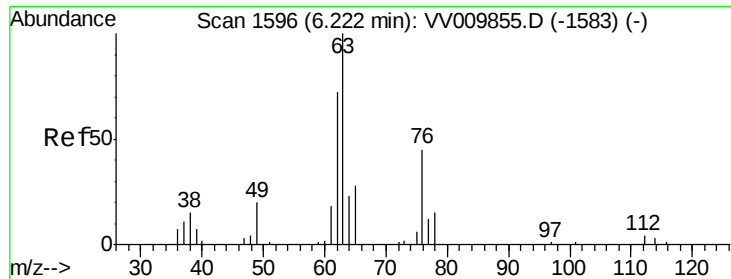


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 44.583 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

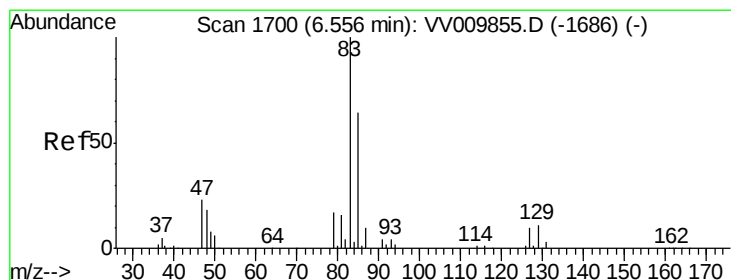
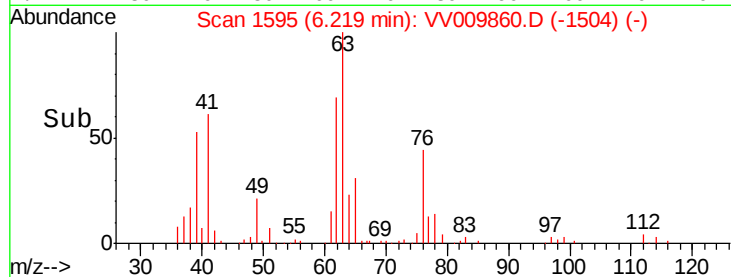
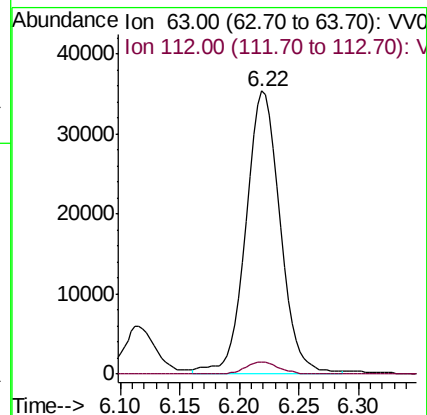
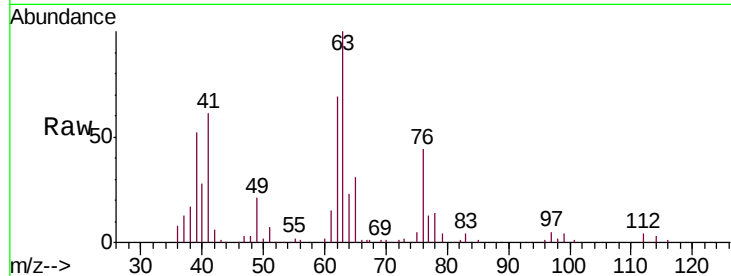
VICV69

Tgt Ion: 63 Resp: 71095

Ion Ratio Lower Upper

63 100

112 3.9 3.5 5.3



#38

Bromodichloromethane

Concen: 43.313 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

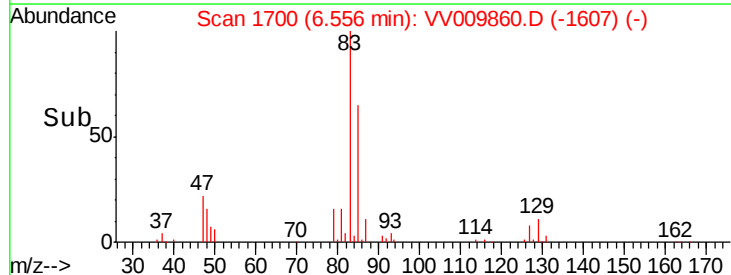
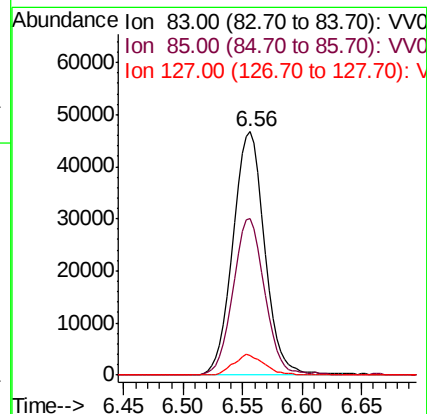
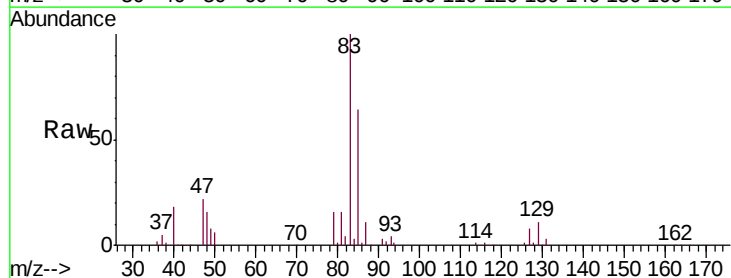
Tgt Ion: 83 Resp: 86755

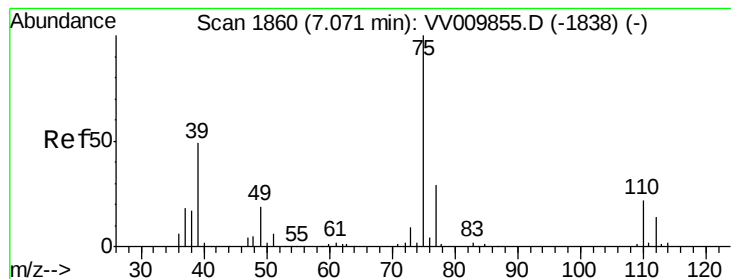
Ion Ratio Lower Upper

83 100

85 64.1 44.6 82.8

127 8.1 8.2 12.2#



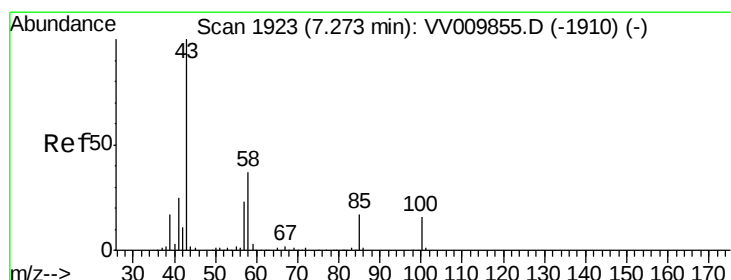
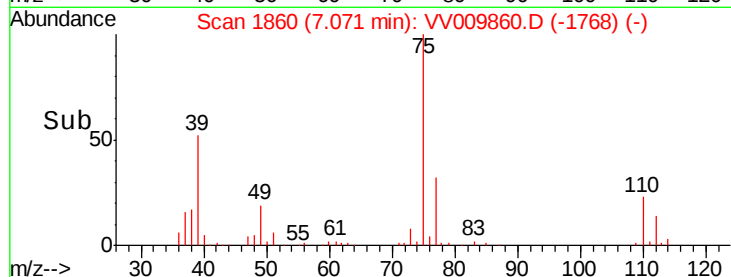
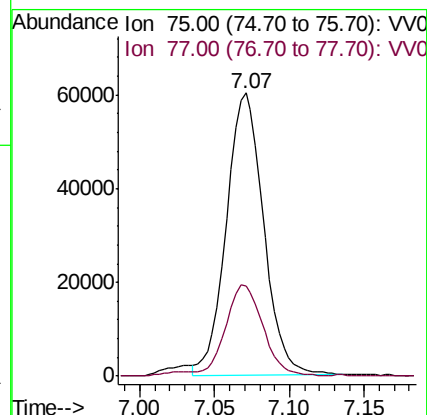
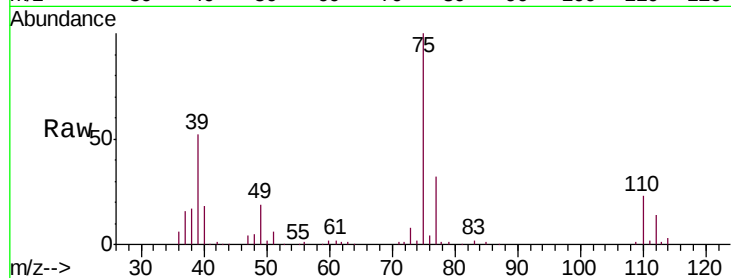


#39

cis-1,3-Dichloropropene  
Concen: 45.549 ug/L  
RT: 7.07 min Scan# 1860  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV69

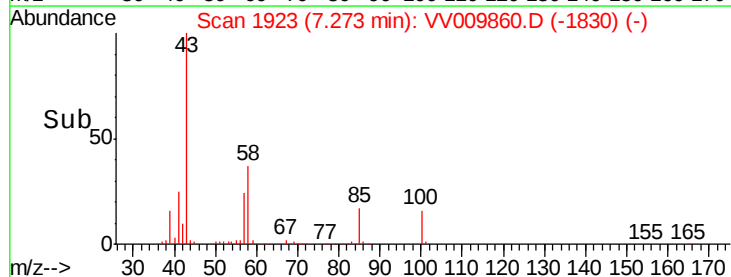
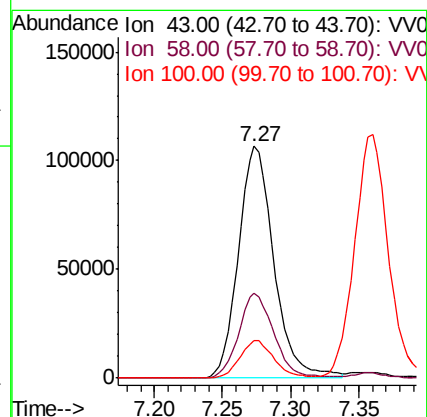
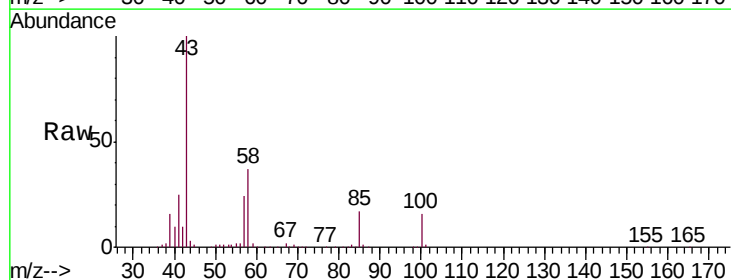
Tgt Ion: 75 Resp: 104519  
Ion Ratio Lower Upper  
75 100  
77 31.9 20.5 38.1

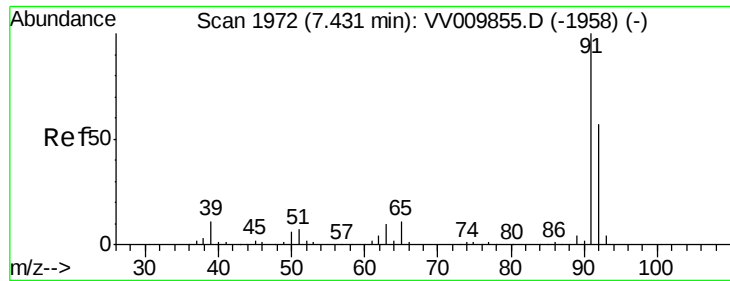


#40

4-Methyl-2-pentanone  
Concen: 88.384 ug/L  
RT: 7.27 min Scan# 1923  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Tgt Ion: 43 Resp: 192889  
Ion Ratio Lower Upper  
43 100  
58 36.0 29.8 44.8  
100 15.7 12.2 18.4





#42

Toluene

Concen: 42.465 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

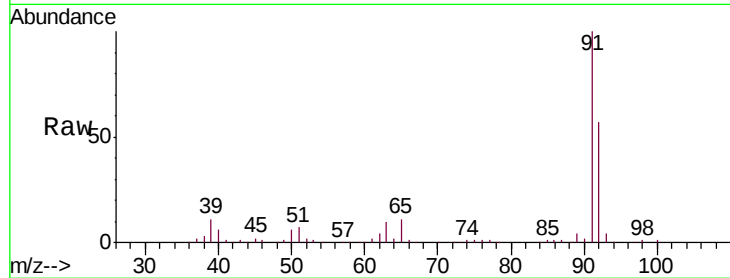
VICV69

Tgt Ion: 91 Resp: 300908

Ion Ratio Lower Upper

91 100

92 56.8 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VV009855.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009860.D (-1880) (-)

7.43

200000

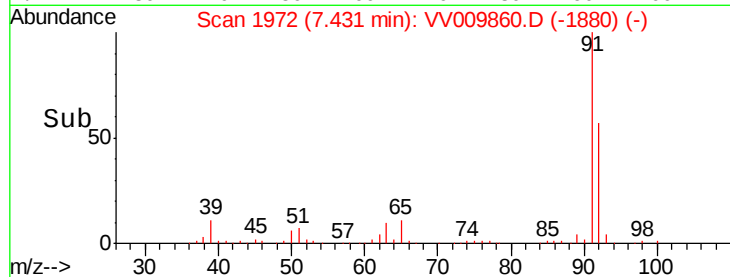
150000

100000

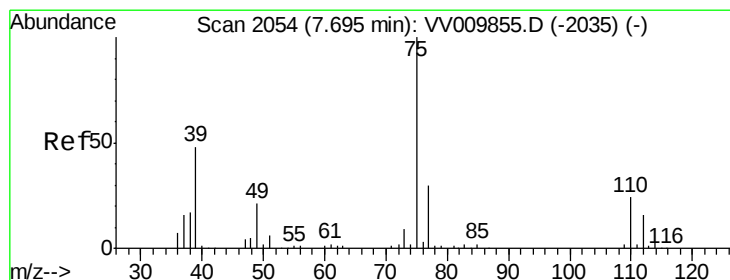
50000

0

Time-->



Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.016 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009860.D

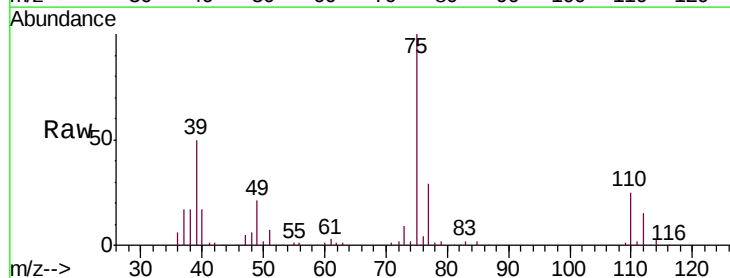
Acq: 25 Mar 2019 14:17

Tgt Ion: 75 Resp: 96011

Ion Ratio Lower Upper

75 100

77 29.1 20.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV009855.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV009860.D (-1961) (-)

7.69

60000

50000

40000

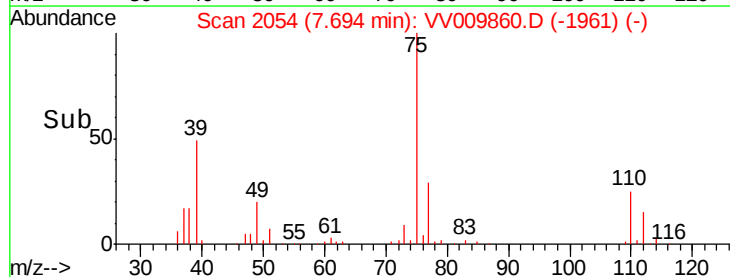
30000

20000

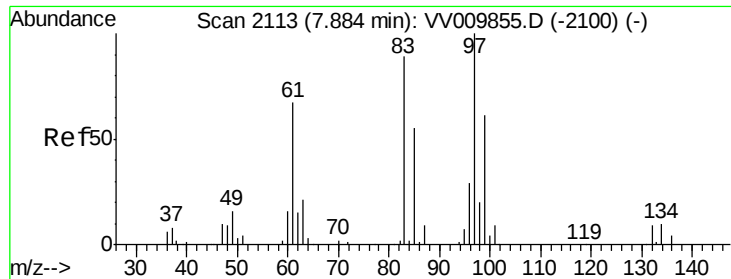
10000

0

Time-->



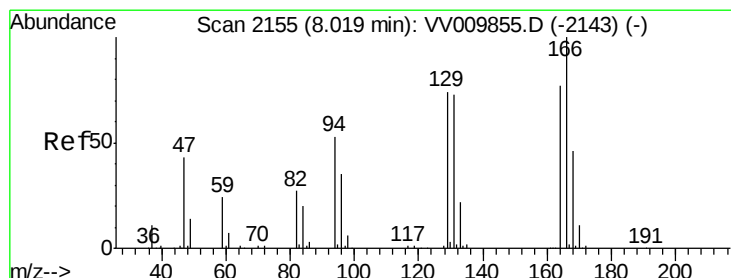
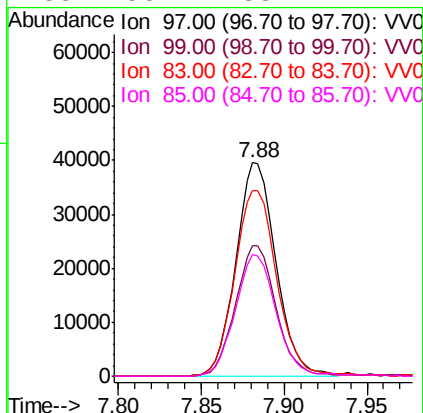
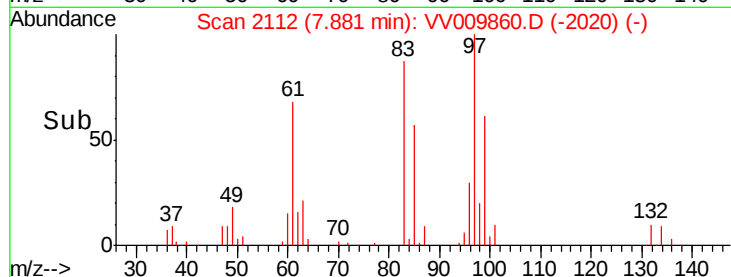
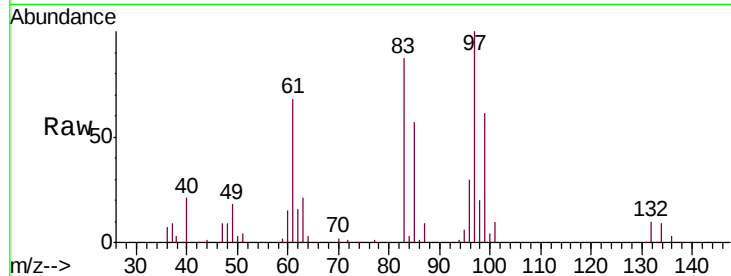
Time-->



#45  
1,1,2-Trichloroethane  
Concen: 42.560 ug/L  
RT: 7.88 min Scan# 2112  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

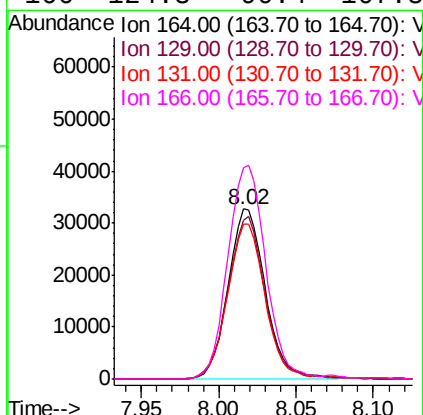
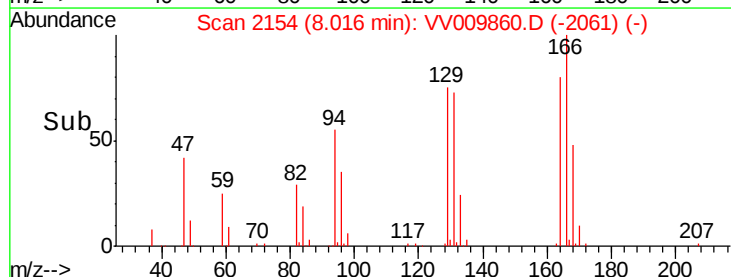
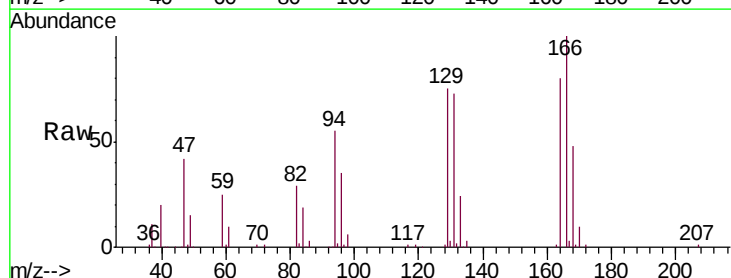
Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV69

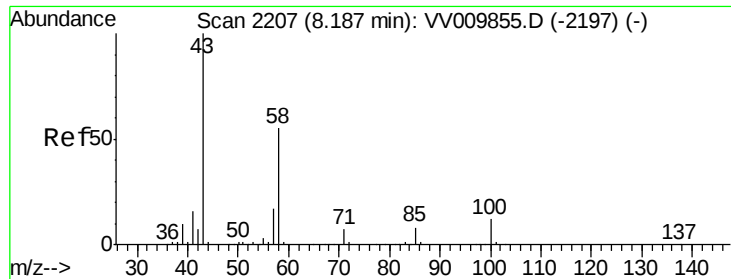
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 66490 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.1  | 42.4  | 78.6  |
| 83       | 86.7  | 62.1  | 115.3 |
| 85       | 56.7  | 38.4  | 71.4  |



#46  
Tetrachloroethene  
Concen: 43.629 ug/L  
RT: 8.02 min Scan# 2154  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 54502 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.6  | 66.8  | 124.0 |
| 131      | 91.1  | 65.7  | 122.1 |
| 166      | 124.3 | 90.4  | 167.8 |

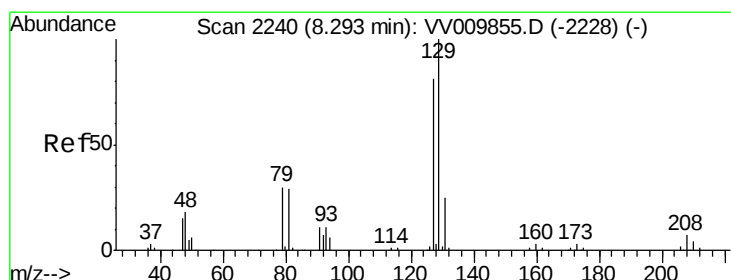
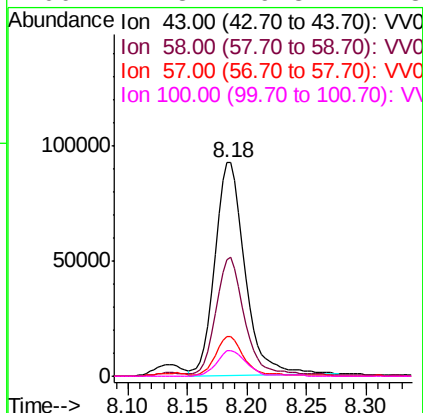
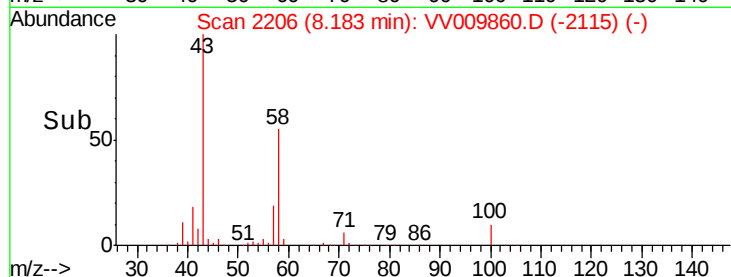
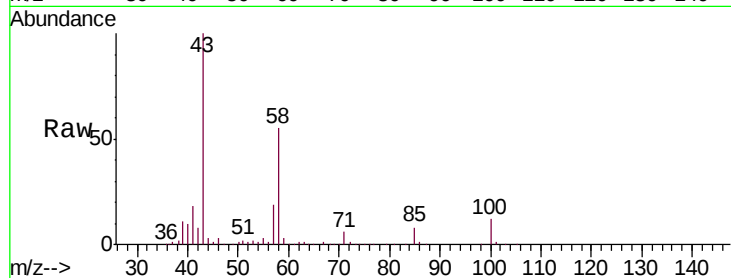




#48  
2-Hexanone  
Concen: 97.624 ug/L  
RT: 8.18 min Scan# 2206  
Delta R.T. -0.01 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

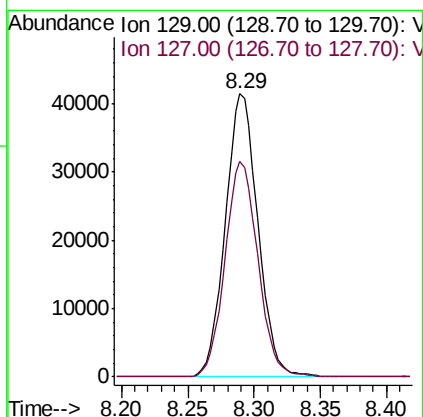
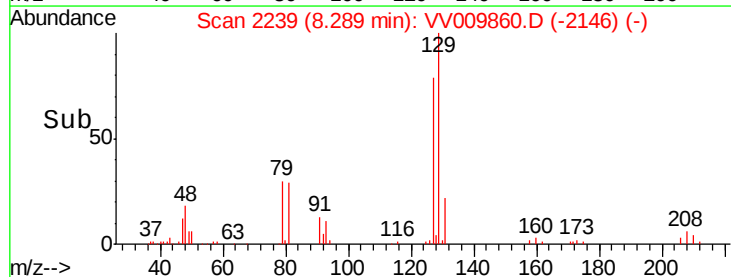
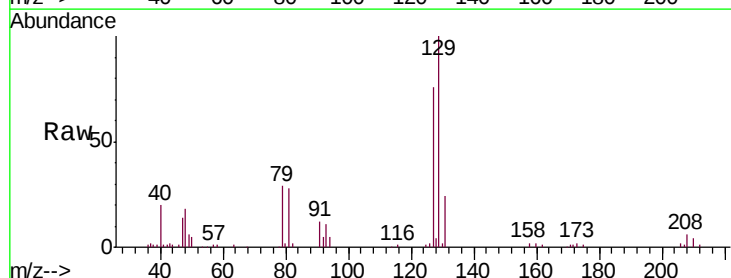
Instrument :  
MSVOA\_V  
ClientSampled :  
VICV69

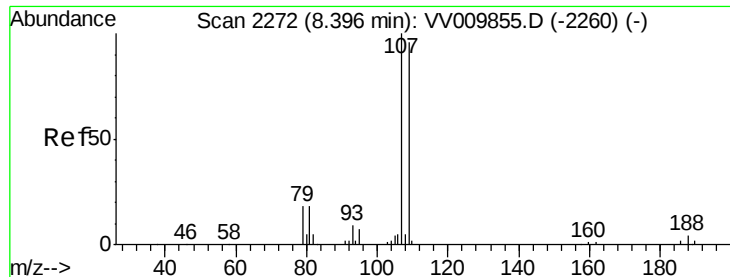
Tgt Ion: 43 Resp: 161534  
Ion Ratio Lower Upper  
43 100  
58 55.2 41.9 62.9  
57 15.6 14.2 21.2  
100 11.8 9.8 14.8



#49  
Dibromochloromethane  
Concen: 43.450 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Tgt Ion: 129 Resp: 70886  
Ion Ratio Lower Upper  
129 100  
127 76.0 56.8 105.4

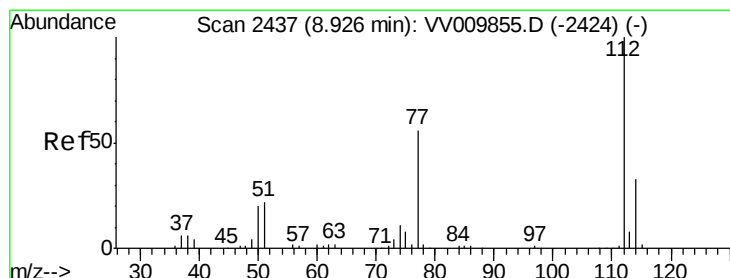
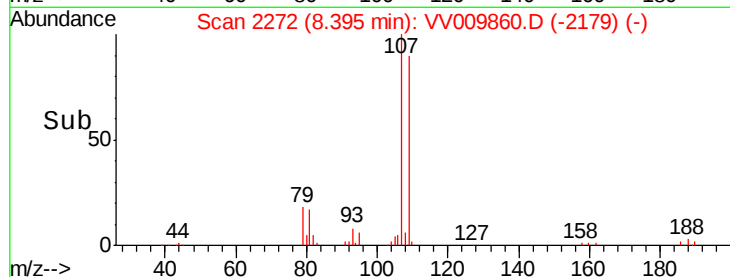
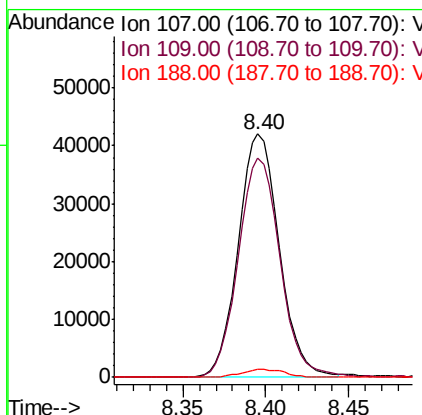
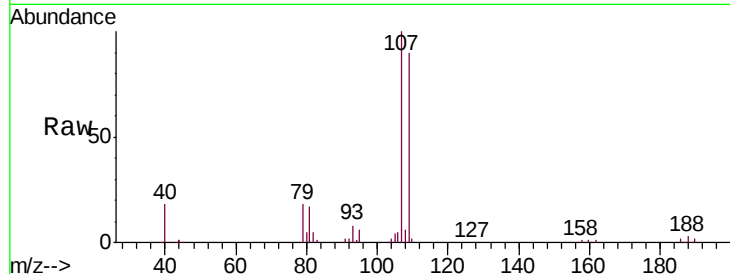




#50  
 1,2-Dibromoethane  
 Concen: 43.626 ug/L  
 RT: 8.40 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

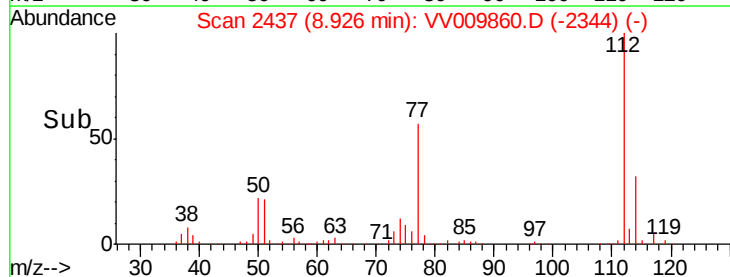
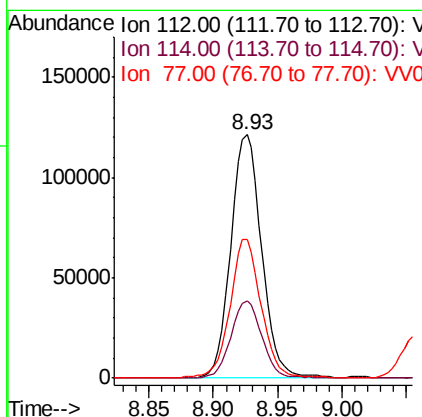
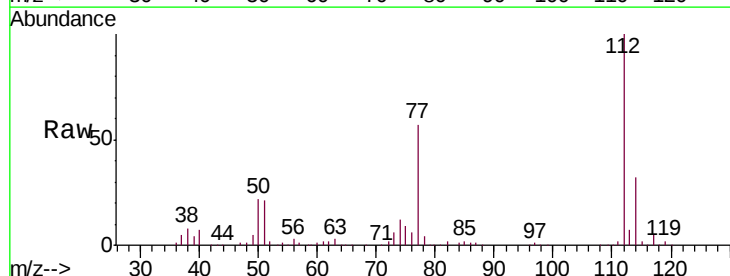
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VICV69

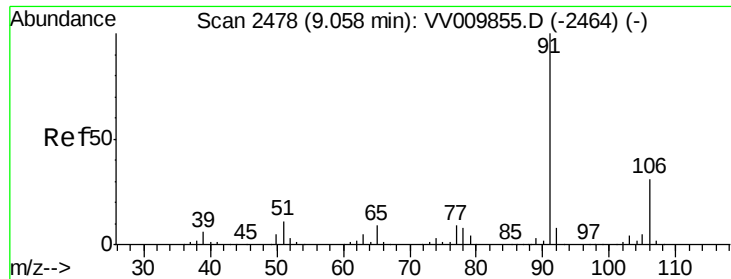
Tgt Ion:107 Resp: 72443  
 Ion Ratio Lower Upper  
 107 100  
 109 90.0 67.5 125.3  
 188 3.2 3.0 4.6



#51  
 Chlorobenzene  
 Concen: 43.028 ug/L  
 RT: 8.93 min Scan# 2437  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

Tgt Ion:112 Resp: 201978  
 Ion Ratio Lower Upper  
 112 100  
 114 31.8 23.3 43.3  
 77 57.0 45.8 68.6





#52

Ethylbenzene

Concen: 43.552 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

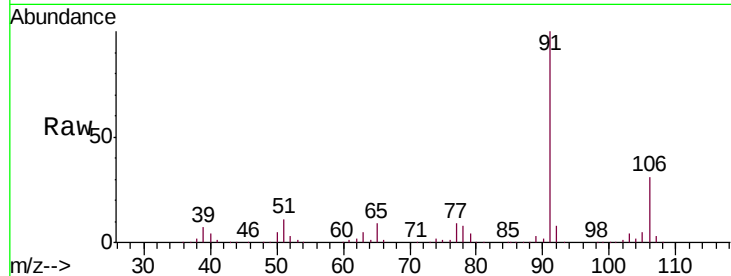
VICV69

Tgt Ion: 91 Resp: 347036

Ion Ratio Lower Upper

91 100

106 30.7 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV009855.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV009860.D (-2384) (-)

250000

200000

150000

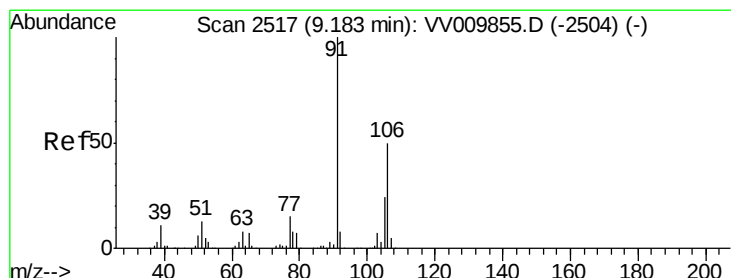
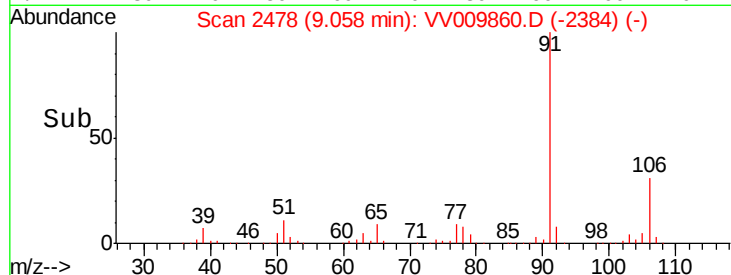
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-Xylene

Concen: 43.554 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009860.D

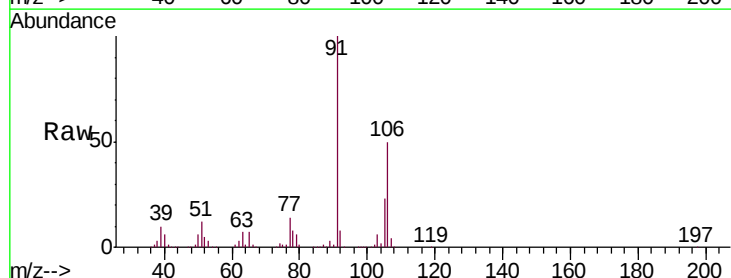
Acq: 25 Mar 2019 14:17

Tgt Ion: 106 Resp: 135248

Ion Ratio Lower Upper

106 100

91 200.2 139.5 259.1



Abundance Ion 106.00 (105.70 to 106.70): VV009860.D (-2384) (-)

Ion 91.00 (90.70 to 91.70): VV009855.D (-2504) (-)

150000

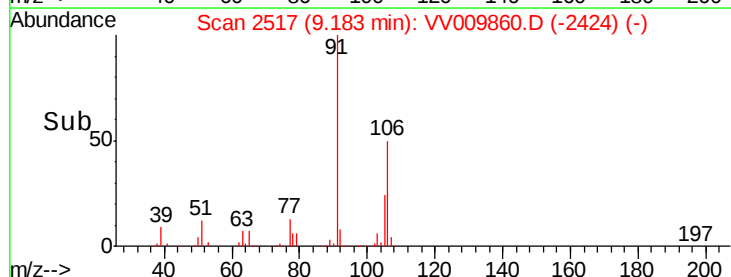
100000

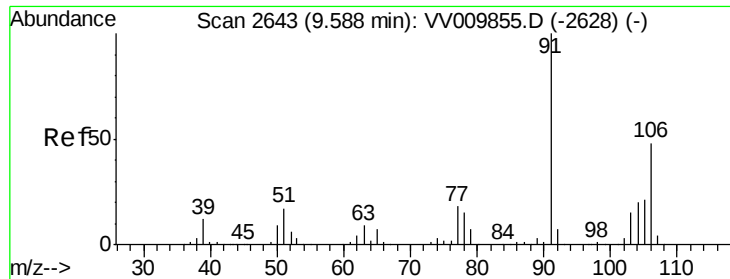
50000

0

9.10 9.15 9.20 9.25

Time-->

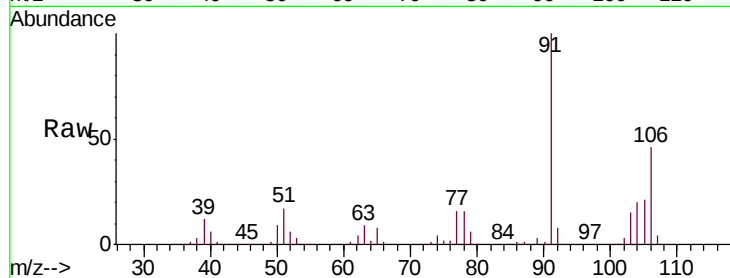




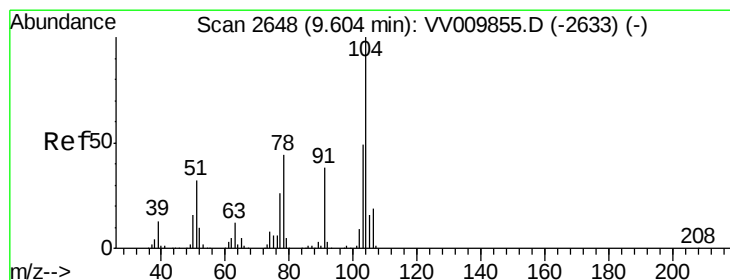
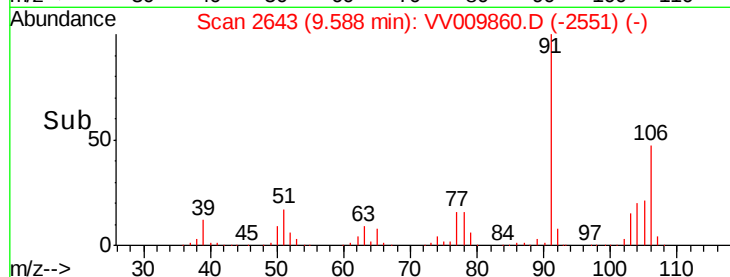
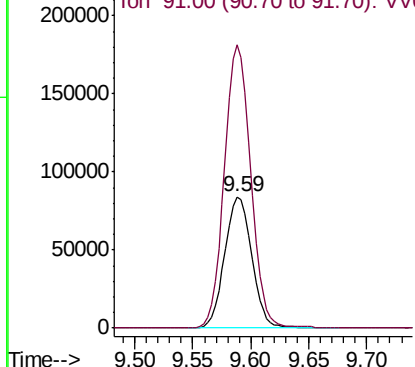
#54  
o-xylene  
Concen: 42.838 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Instrument :  
MSVOA\_V  
ClientSampled :  
VICV69

Tgt Ion:106 Resp: 135928  
Ion Ratio Lower Upper  
106 100  
91 215.1 147.0 273.0

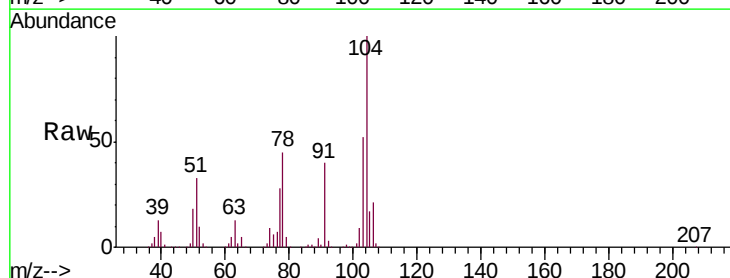


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

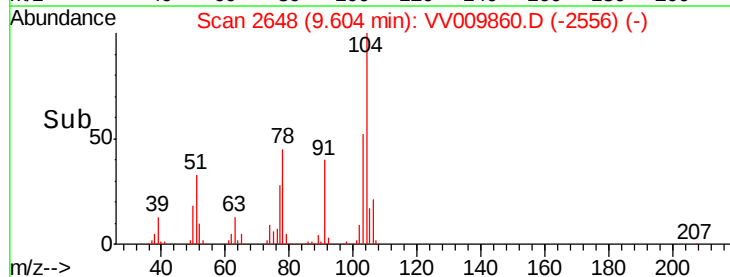
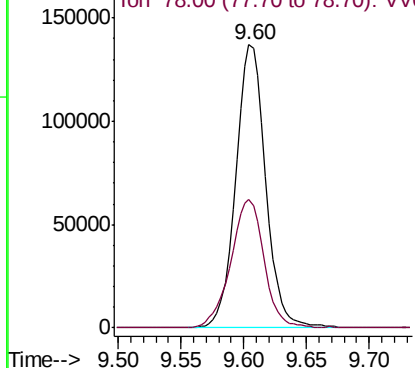


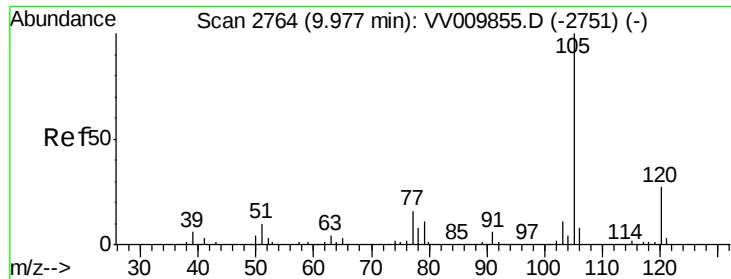
#55  
Styrene  
Concen: 43.063 ug/L  
RT: 9.60 min Scan# 2648  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

Tgt Ion:104 Resp: 226551  
Ion Ratio Lower Upper  
104 100  
78 45.4 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0

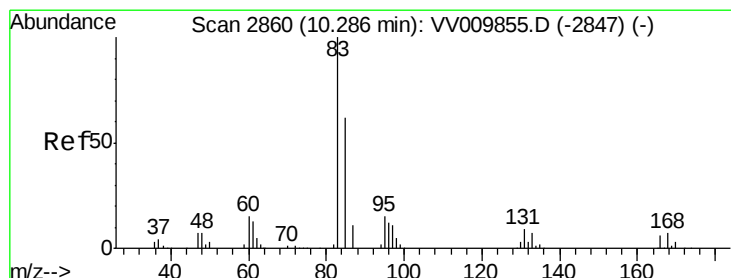
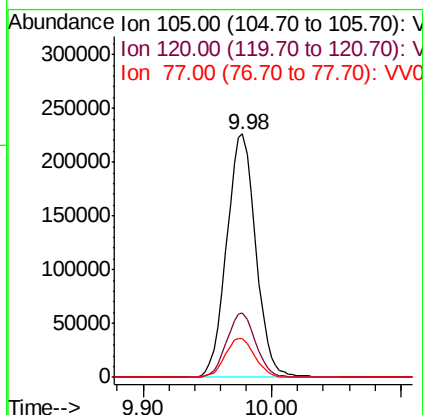
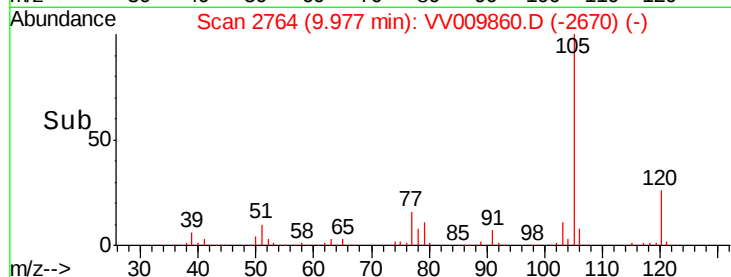
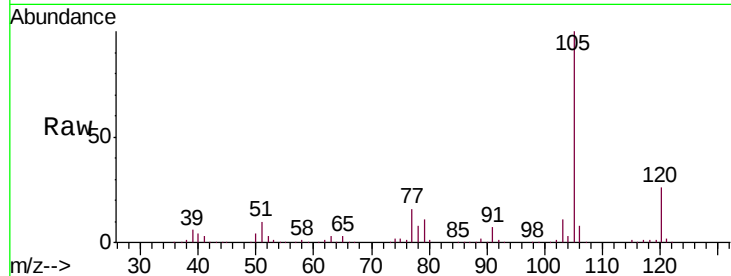




#56  
Isopropylbenzene  
Concen: 43.902 ug/L  
RT: 9.98 min Scan# 2764  
Delta R.T. 0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

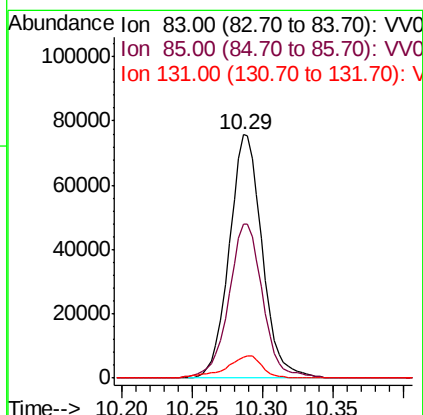
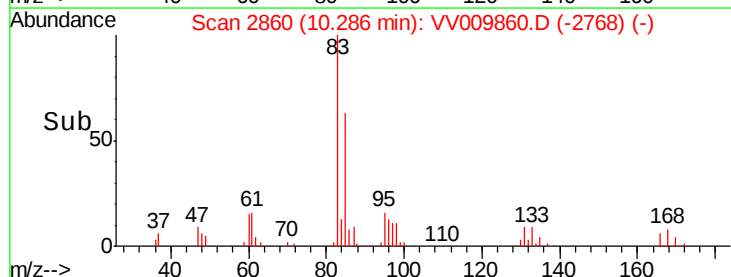
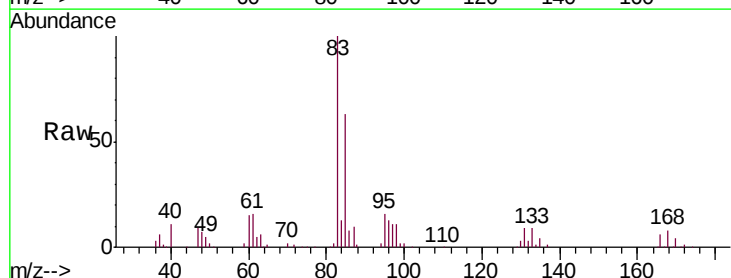
Instrument :  
MSVOA\_V  
ClientSampleId :  
VICV69

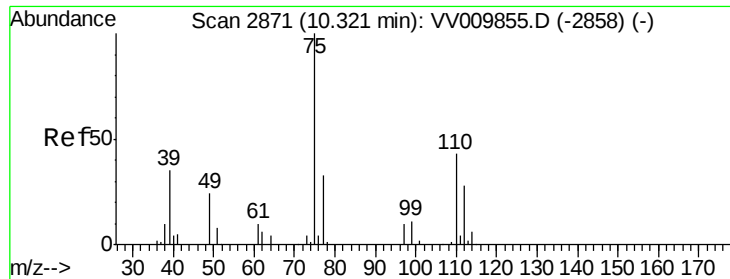
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.4  | 21.5  | 32.3  |
| 77      | 16.3  | 13.1  | 19.7  |



#58  
1,1,2,2-Tetrachloroethane  
Concen: 43.201 ug/L  
RT: 10.29 min Scan# 2860  
Delta R.T. -0.00 min  
Lab File: VV009860.D  
Acq: 25 Mar 2019 14:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.4  | 44.0  | 81.6  |
| 131     | 8.6   | 7.0   | 10.6  |





#59

1,2,3-Trichloropropane

Concen: 41.486 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

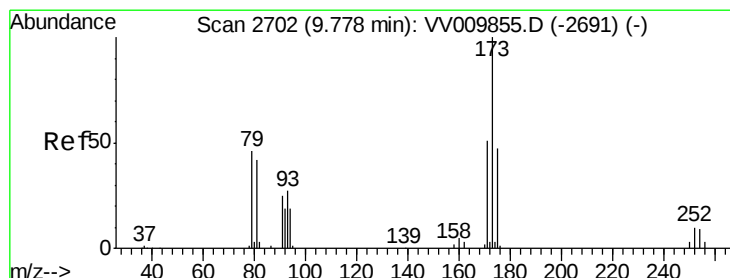
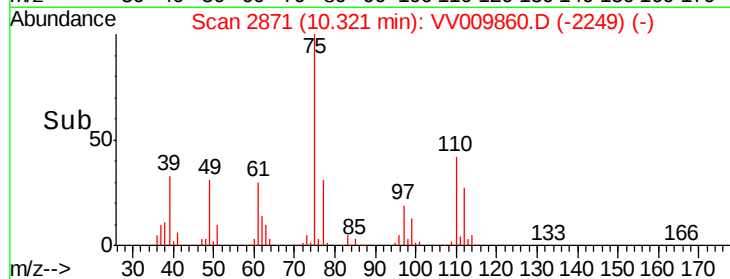
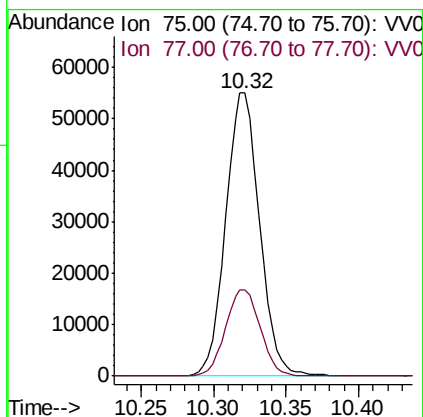
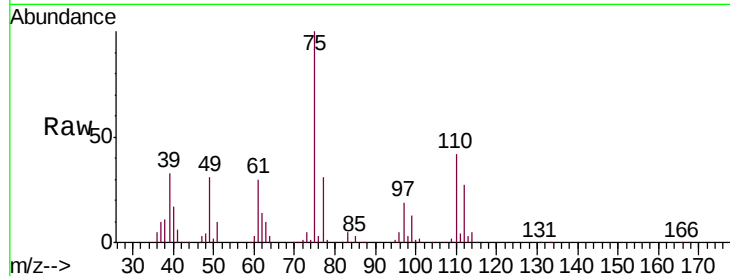
VICV69

Tgt Ion: 75 Resp: 89222

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0



#61

Bromoform

Concen: 38.180 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

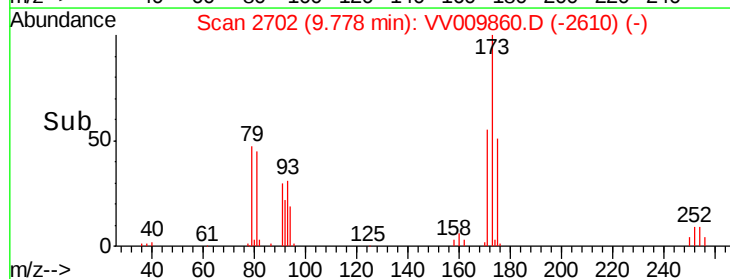
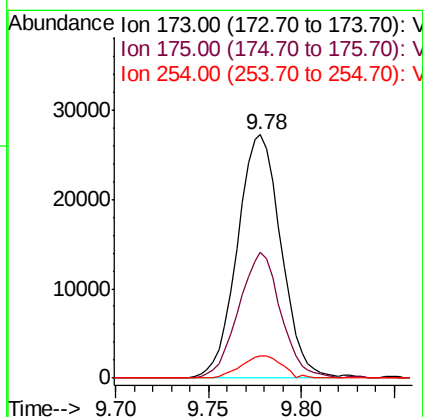
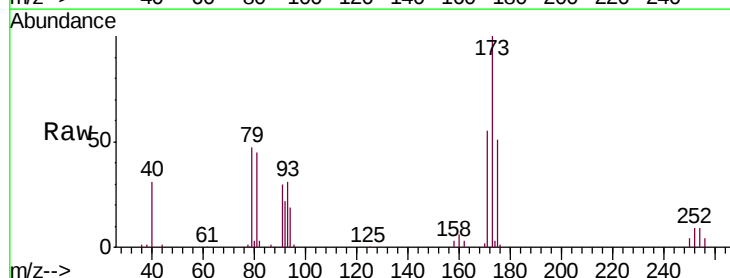
Tgt Ion: 173 Resp: 44606

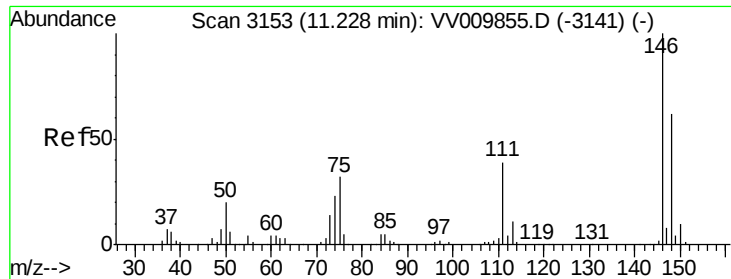
Ion Ratio Lower Upper

173 100

175 49.8 39.0 58.6

254 8.4 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 42.584 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampled :

VICV69

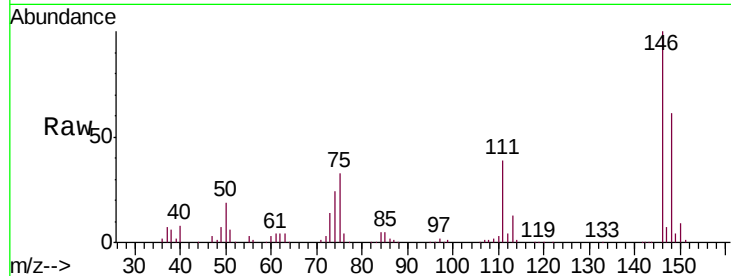
Tgt Ion:146 Resp: 153547

Ion Ratio Lower Upper

146 100

111 38.7 27.5 51.1

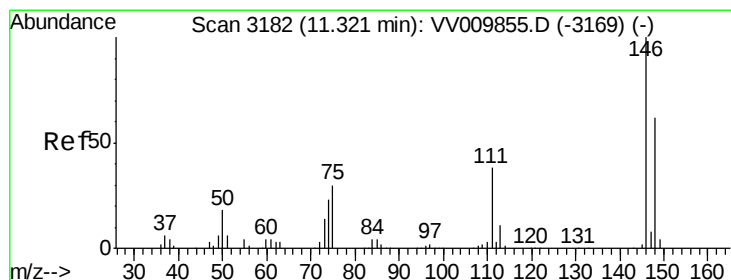
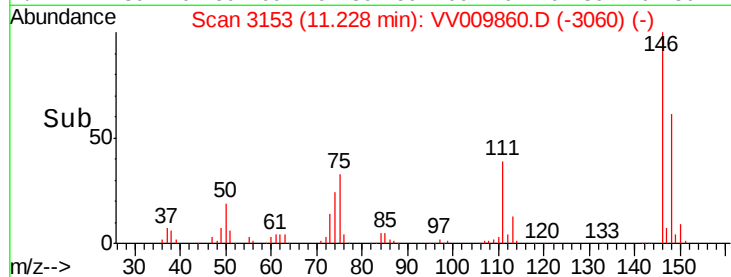
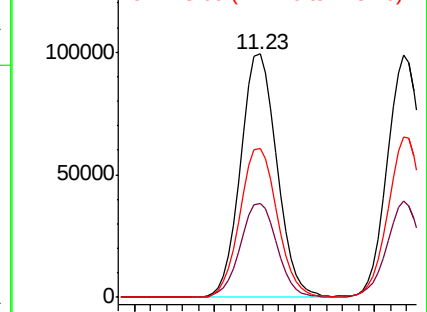
148 61.2 43.0 80.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 41.344 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

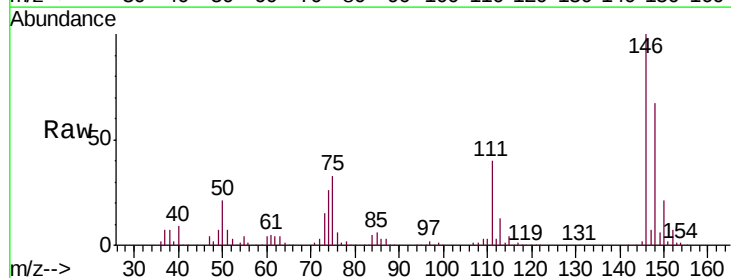
Tgt Ion:146 Resp: 156300

Ion Ratio Lower Upper

146 100

111 39.8 26.5 49.3

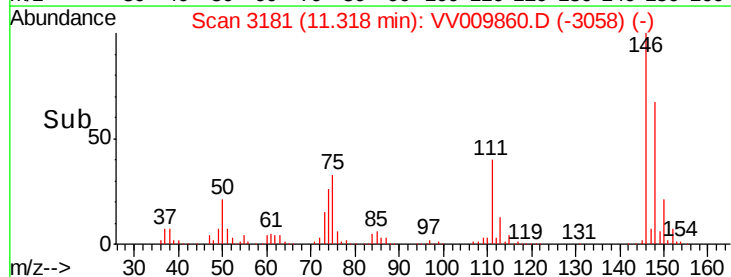
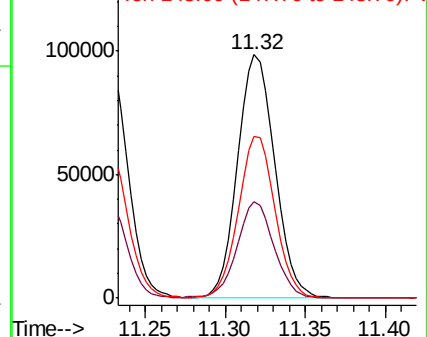
148 66.5 43.2 80.2

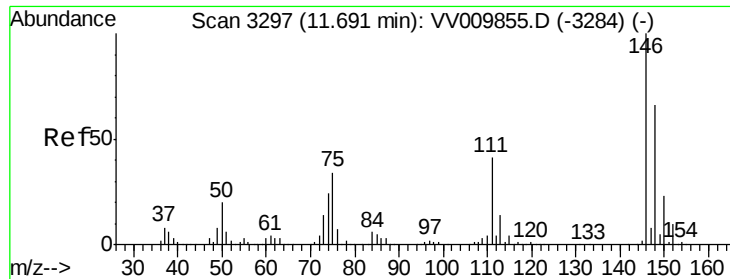


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

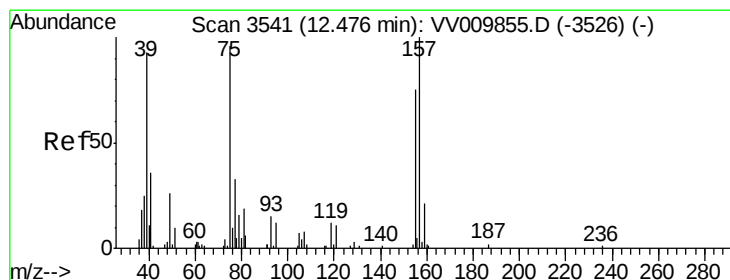
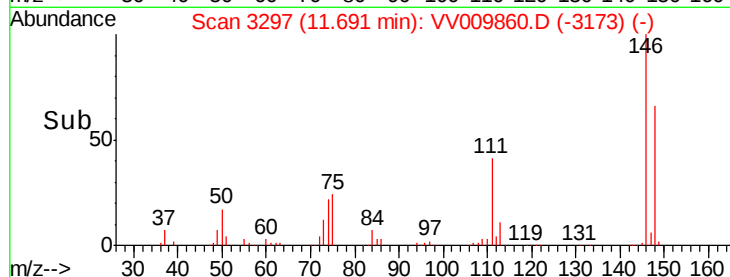
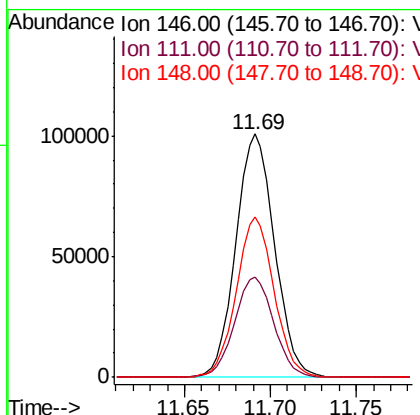
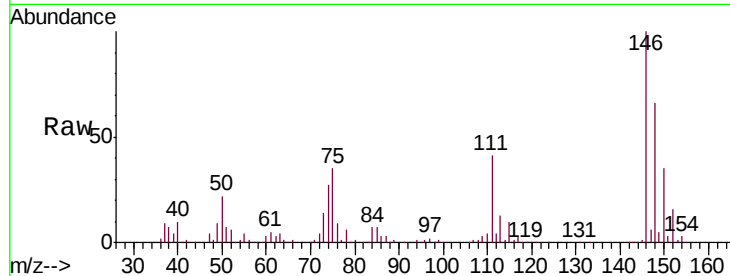




#65  
 1,2-Dichlorobenzene  
 Concen: 41.461 ug/L  
 RT: 11.69 min Scan# 3297  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

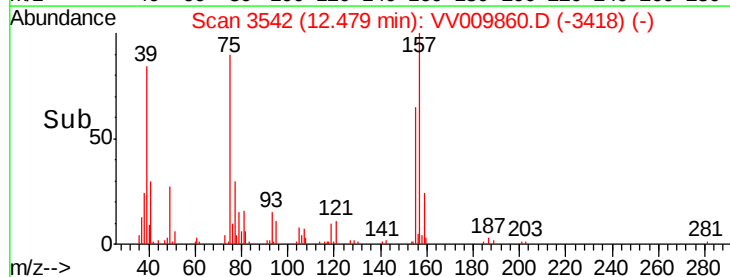
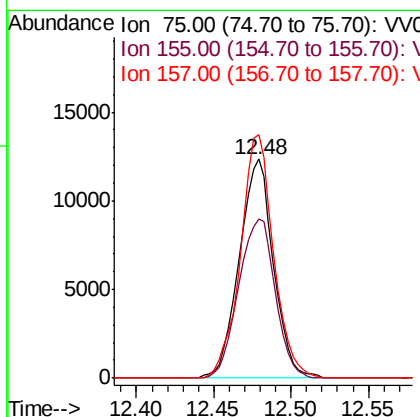
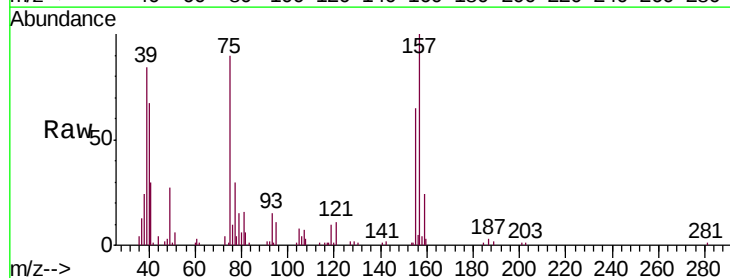
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV69

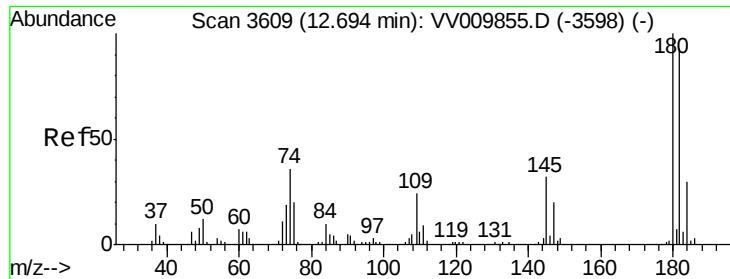
Tgt Ion: 146 Resp: 157939  
 Ion Ratio Lower Upper  
 146 100  
 111 41.4 33.0 49.6  
 148 65.8 53.2 79.8



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 38.977 ug/L  
 RT: 12.48 min Scan# 3542  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

Tgt Ion: 75 Resp: 18940  
 Ion Ratio Lower Upper  
 75 100  
 155 72.8 62.8 94.2  
 157 111.3 83.4 125.2

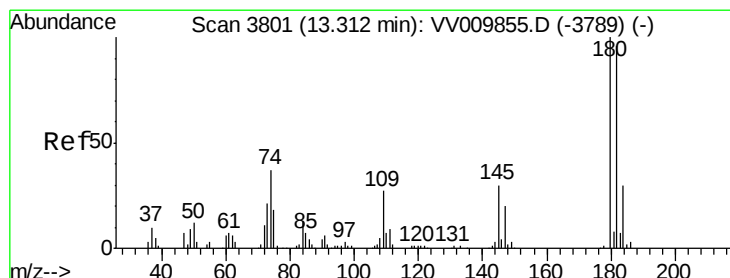
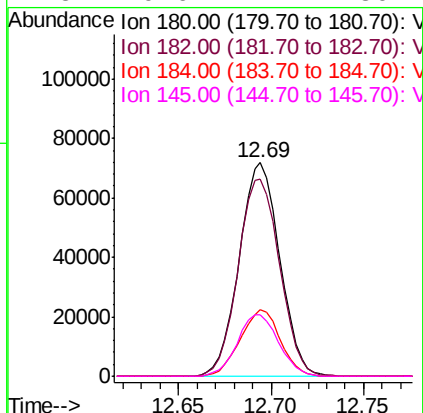
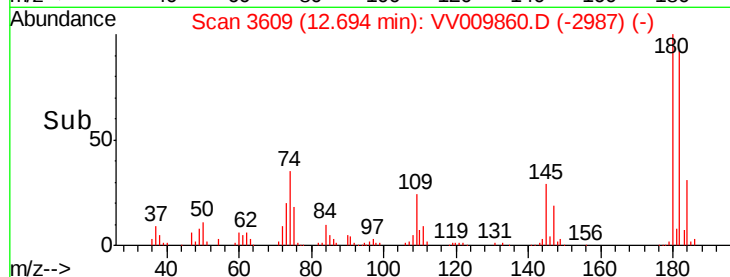
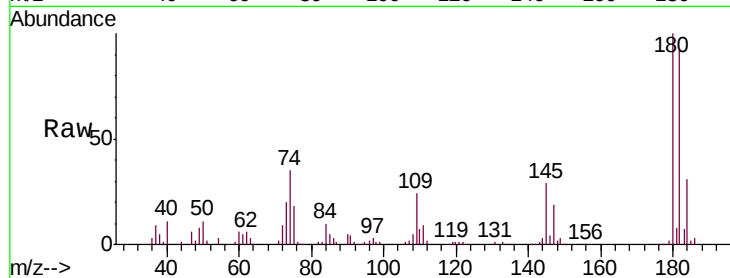




#67  
 1,3,5-Trichlorobenzene  
 Concen: 44.314 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

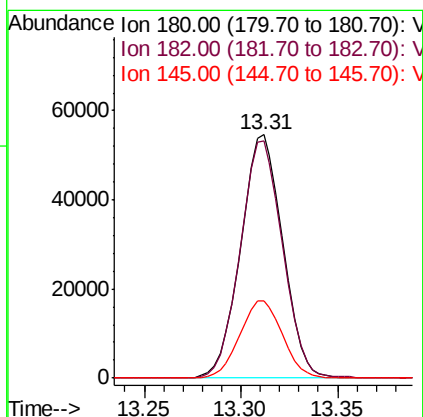
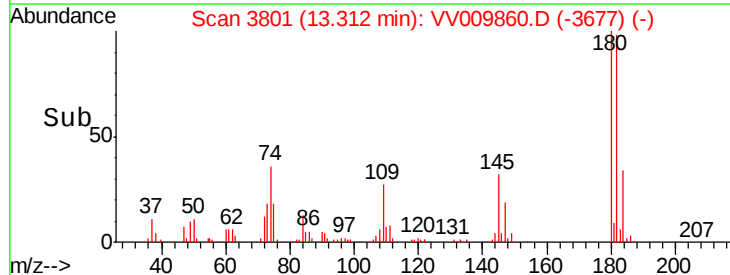
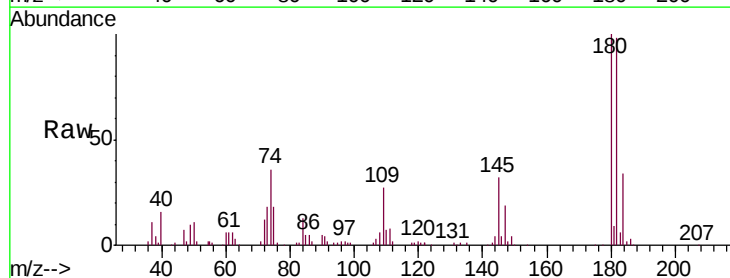
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV69

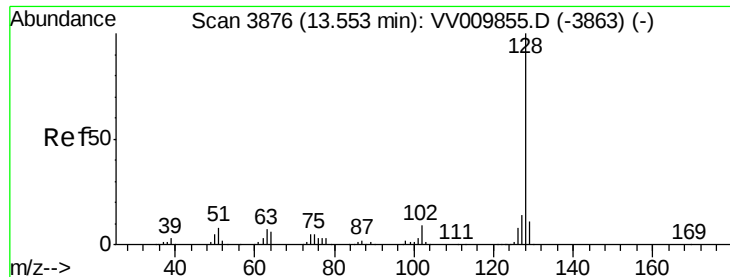
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 109016 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 94.7  | 75.0  | 112.6  |
| 184      | 30.8  | 24.1  | 36.1   |
| 145      | 29.6  | 24.2  | 36.4   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 42.133 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. -0.00 min  
 Lab File: VV009860.D  
 Acq: 25 Mar 2019 14:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 82585 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 98.3  | 77.1  | 115.7 |
| 145      | 32.4  | 24.3  | 36.5  |





#69

Naphthalene

Concen: 44.343 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

Instrument :

MSVOA\_V

ClientSampleId :

VICV69

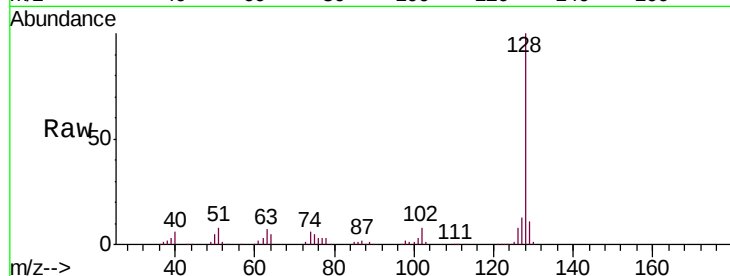
Tgt Ion:128 Resp: 228579

Ion Ratio Lower Upper

128 100

127 12.9 11.0 16.6

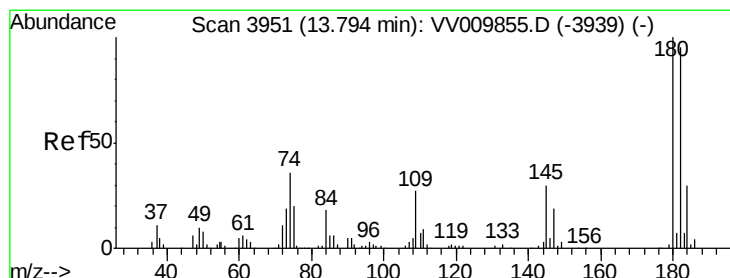
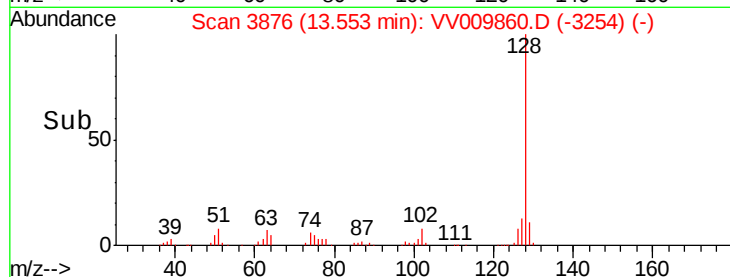
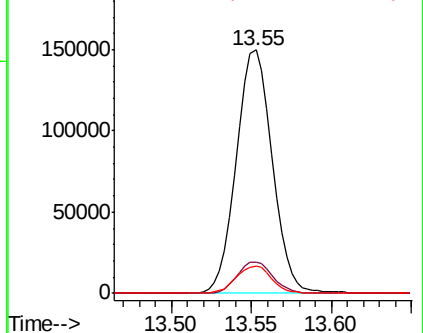
129 11.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 44.031 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VV009860.D

Acq: 25 Mar 2019 14:17

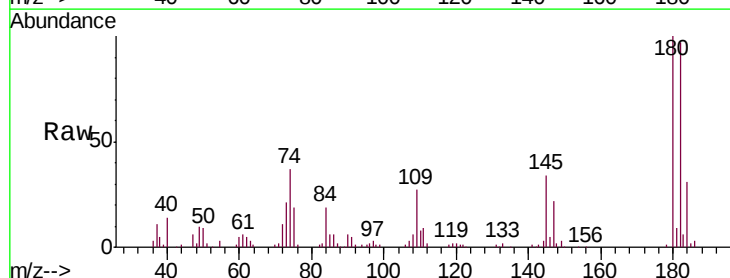
Tgt Ion:180 Resp: 87307

Ion Ratio Lower Upper

180 100

182 95.3 75.6 113.4

145 32.4 24.8 37.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

