

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122320\  
 Data File : VV019806.D  
 Acq On : 23 Dec 2020 11:45  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

Quant Time: Dec 23 21:57:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 23 08:29:21 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 690076   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 651863   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.25 | 152  | 319771   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 267821   | 54.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 108.24% |
| 7) Chloroethane-d5             | 1.57    | 69    | 207265   | 53.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 106.22% |
| 11) 1,1-Dichloroethene-d2      | 2.11    | 63    | 487391   | 53.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 106.14% |
| 21) 2-Butanone-d5              | 3.89    | 46    | 348457   | 129.56   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 129.56% |
| 24) Chloroform-d               | 4.35    | 84    | 481034   | 53.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.88% |
| 26) 1,2-Dichloroethane-d4      | 5.03    | 65    | 317656   | 54.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 109.00% |
| 32) Benzene-d6                 | 5.05    | 84    | 935703   | 53.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.64% |
| 36) 1,2-Dichloropropane-d6     | 6.07    | 67    | 297947   | 54.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 109.42% |
| 41) Toluene-d8                 | 7.32    | 98    | 827807   | 52.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.76% |
| 43) trans-1,3-Dichloropropene- | 7.62    | 79    | 150059   | 48.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.88%  |
| 47) 2-Hexanone-d5              | 8.09    | 63    | 237139   | 110.95   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 110.95% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.22   | 84    | 378542   | 51.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.78% |
| 64) 1,2-Dichlorobenzene-d4     | 11.63   | 152   | 307888   | 51.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.02% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85   | 241502   | 43.365  | ug/L   | 100    |
| 3) Chloromethane               | 1.24 | 50   | 267003   | 45.105  | ug/L   | 100    |
| 5) Vinyl chloride              | 1.31 | 62   | 274637   | 46.254  | ug/L   | 99     |
| 6) Bromomethane                | 1.52 | 94   | 159238   | 44.657  | ug/L   | 98     |
| 8) Chloroethane                | 1.59 | 64   | 169381   | 47.294  | ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.75 | 101  | 350275   | 48.285  | ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 203209   | 50.723  | ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 2.12 | 96   | 192046   | 46.714  | ug/L # | 70     |
| 13) Acetone                    | 2.18 | 43   | 266068   | 116.120 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.30 | 76   | 560823   | 41.518  | ug/L   | 100    |
| 15) Methyl Acetate             | 2.43 | 43   | 254924   | 51.065  | ug/L   | 98     |
| 16) Methylene chloride         | 2.51 | 84   | 233117   | 48.364  | ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.76 | 96   | 213081   | 47.288  | ug/L   | 98     |
| 18) Methyl tert-butyl Ether    | 2.77 | 73   | 743854   | 47.243  | ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 3.19 | 63   | 436021   | 49.911  | ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 3.91 | 96   | 237078   | 47.861  | ug/L # | 96     |
| 22) 2-Butanone                 | 3.97 | 43   | 366323   | 108.991 | ug/L   | 96     |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

Quant Time: Dec 23 21:57:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121020WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Dec 23 08:29:21 2020  
 Response via : Initial Calibration

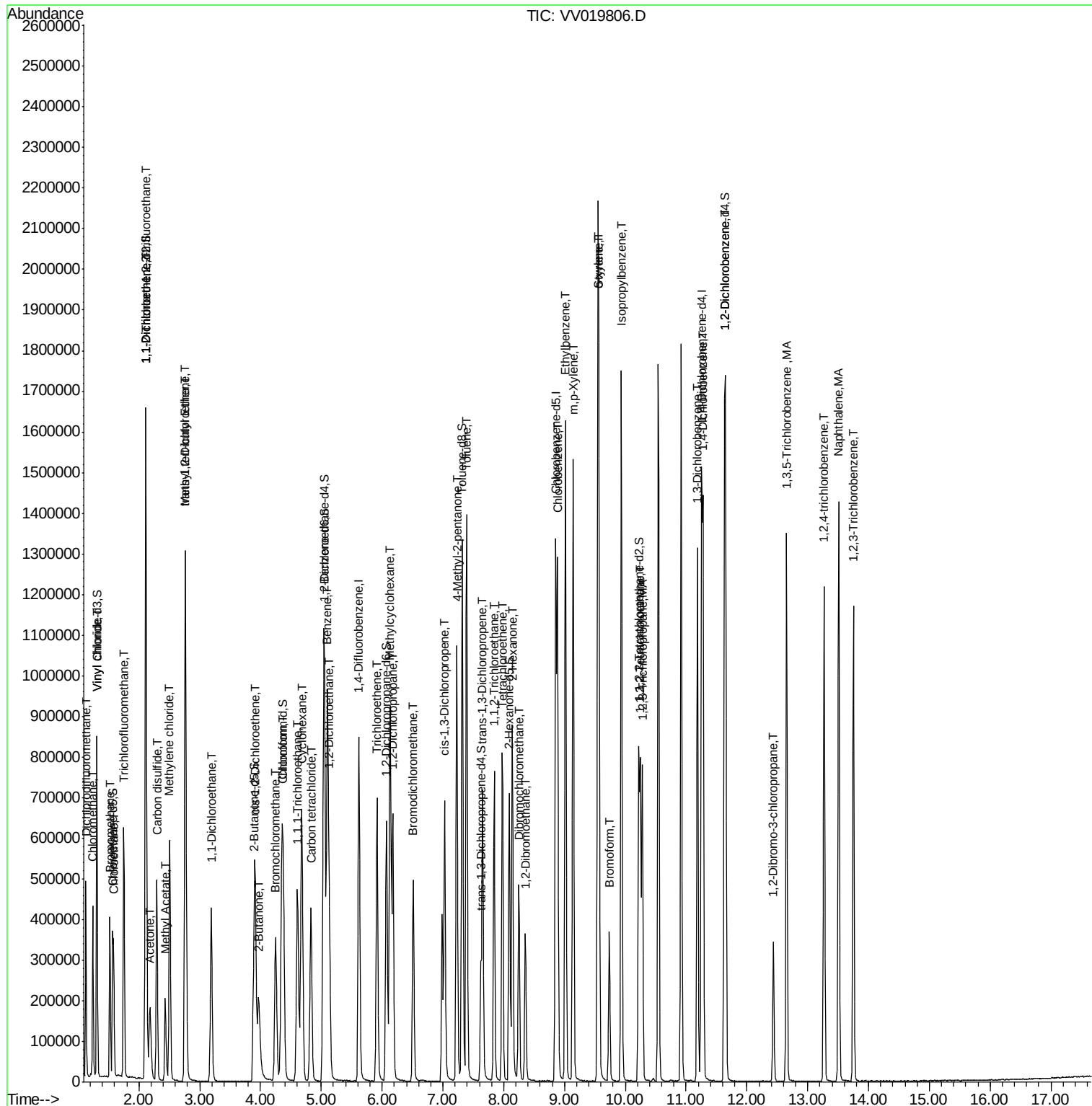
| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.25  | 128  | 114683   | 47.055  | ug/L  | 95       |
| 25) Chloroform                  | 4.38  | 83   | 428405   | 49.102  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.13  | 62   | 349720   | 48.384  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.68  | 56   | 379404   | 47.489  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane       | 4.61  | 97   | 380747   | 46.583  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.83  | 117  | 313929   | 45.497  | ug/L  | 99       |
| 33) Benzene                     | 5.10  | 78   | 913899   | 47.971  | ug/L  | 100      |
| 34) Trichloroethene             | 5.92  | 95   | 243117   | 48.308  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.13  | 83   | 376348   | 49.225  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.18  | 63   | 246843   | 49.615  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.51  | 83   | 325854   | 46.838  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.03  | 75   | 394936   | 47.795  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.23  | 43   | 707914   | 98.626  | ug/L  | 98       |
| 42) Toluene                     | 7.39  | 91   | 949934   | 47.310  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.65  | 75   | 379672   | 45.378  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.84  | 97   | 225364   | 47.700  | ug/L  | 98       |
| 46) Tetrachloroethene           | 7.98  | 164  | 162637   | 46.704  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.14  | 43   | 551727   | 101.302 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.25  | 129  | 236463   | 45.702  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.36  | 107  | 234755   | 47.185  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.88  | 112  | 613205   | 47.816  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.02  | 91   | 1093335  | 47.792  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.14  | 106  | 401884   | 47.022  | ug/L  | 99       |
| 54) o-xylene                    | 9.55  | 106  | 388641   | 46.392  | ug/L  | 99       |
| 55) Styrene                     | 9.57  | 104  | 697340   | 47.761  | ug/L  | 97       |
| 56) Isopropylbenzene            | 9.94  | 105  | 1069197  | 47.908  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.25 | 83   | 357118   | 47.003  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.28 | 75   | 299965   | 48.473  | ug/L  | 99       |
| 61) Bromoform                   | 9.74  | 173  | 148094   | 41.855  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.19 | 146  | 469678   | 47.873  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.28 | 146  | 481282   | 48.445  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.65 | 146  | 471187   | 48.604  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.43 | 75   | 86062    | 42.529  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 12.65 | 180  | 350901   | 50.623  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.27 | 180  | 321782   | 49.649  | ug/L  | 100      |
| 69) Naphthalene                 | 13.51 | 128  | 1010247  | 44.891  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.75 | 180  | 309921   | 48.932  | ug/L  | 99       |

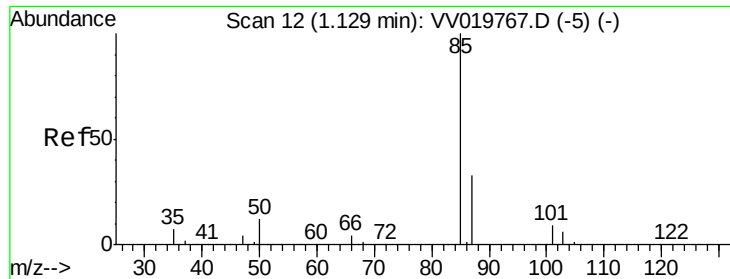
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV122320\  
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ALS Vial : 1 Sample Multiplier: 1

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Quant Title : VOC Analysis  
QLast Update : Wed Dec 23 08:29:21 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 43.365 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

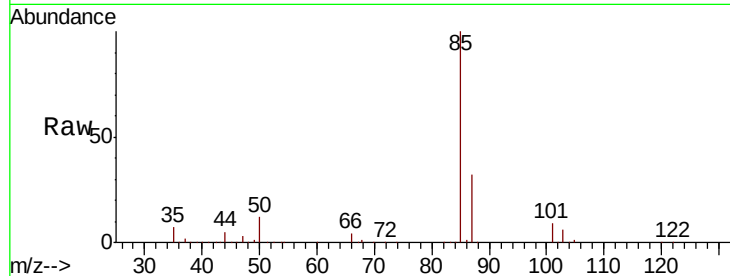
VSTD05071

Tot Ion: 85 Resp: 241502

Ion Ratio Lower Upper

85 100

87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV019767.D (-5) (-)

Ion 87.00 (86.70 to 87.70): VV019767.D (-5) (-)

1.13

250000

200000

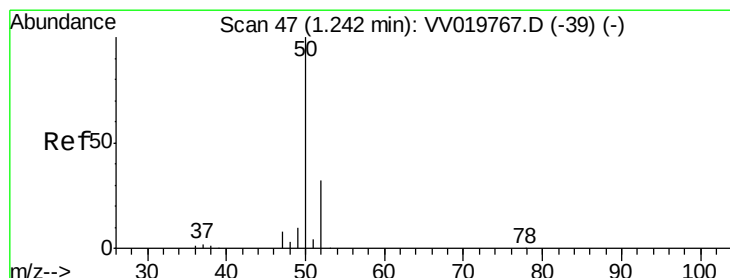
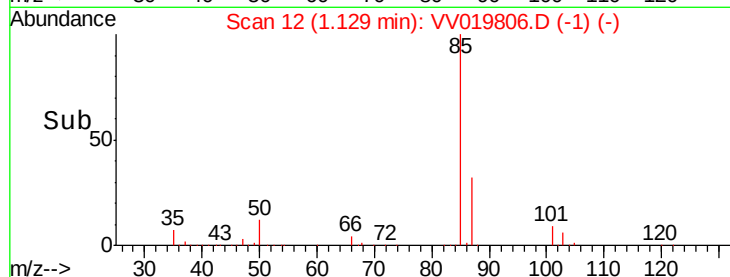
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 45.105 ug/L

RT: 1.24 min Scan# 47

Delta R.T. -0.00 min

Lab File: VV019806.D

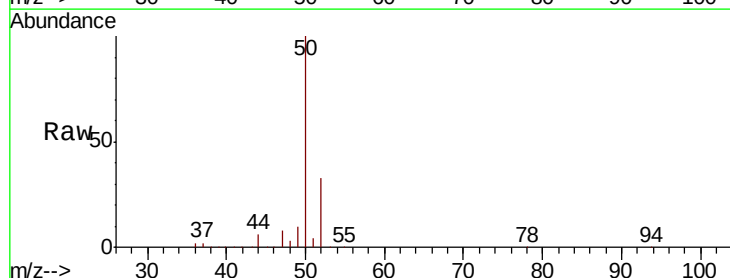
Acq: 23 Dec 2020 11:45

Tgt Ion: 50 Resp: 267003

Ion Ratio Lower Upper

50 100

52 32.9 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VV019767.D (-39) (-)

Ion 52.00 (51.70 to 52.70): VV019767.D (-39) (-)

1.24

250000

200000

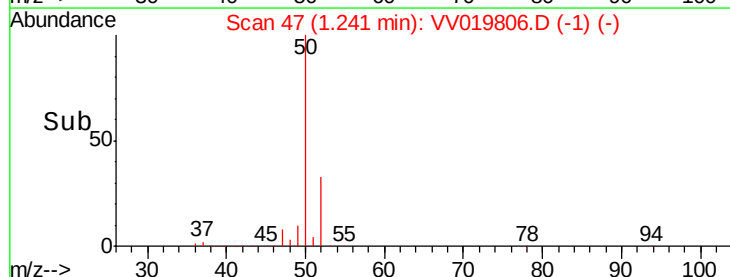
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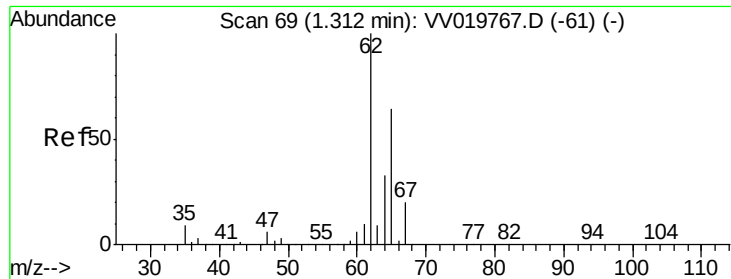
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 46.254 ug/L

RT: 1.31 min Scan# 69

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

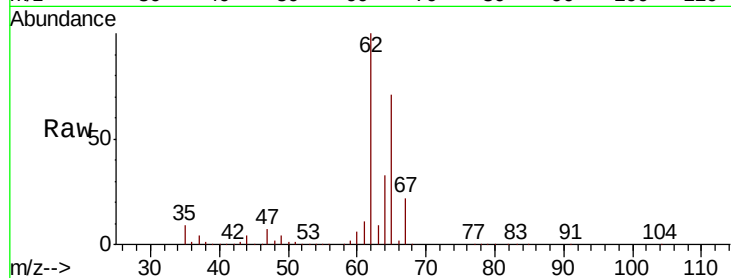
VSTD05071

Tot Ion: 62 Resp: 274637

Ion Ratio Lower Upper

62 100

64 32.8 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

300000

250000

200000

150000

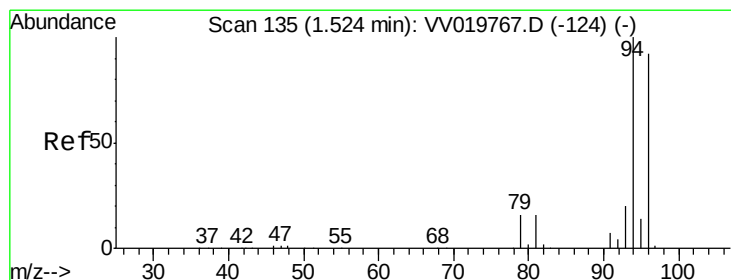
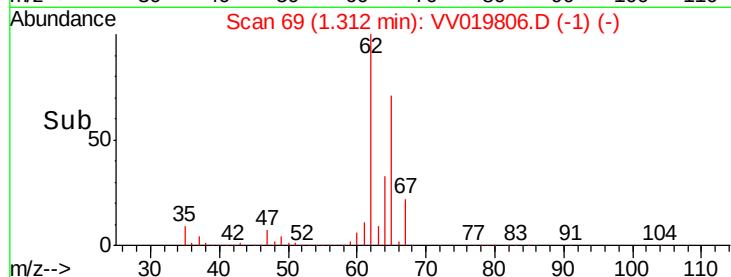
100000

50000

0

1.25 1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 44.657 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV019806.D

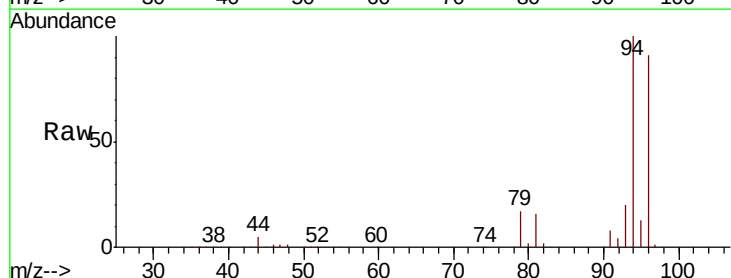
Acq: 23 Dec 2020 11:45

Tgt Ion: 94 Resp: 159238

Ion Ratio Lower Upper

94 100

96 90.9 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

150000

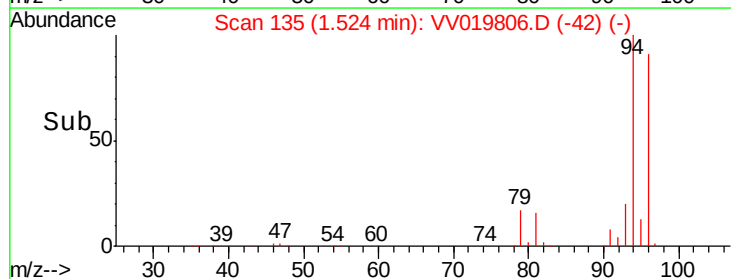
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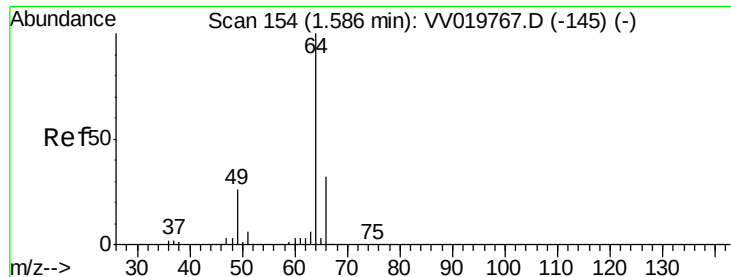
50000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 47.294 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

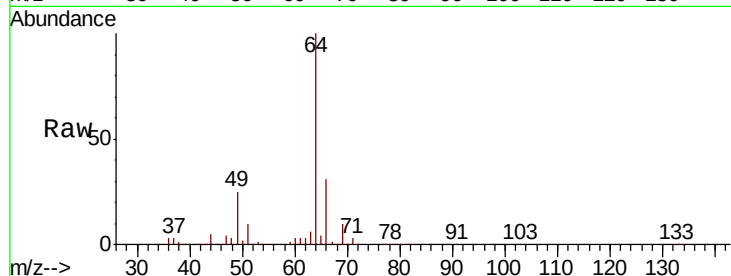
VSTD05071

Tot Ion: 64 Resp: 169381

Ion Ratio Lower Upper

64 100

66 31.2 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VV019767.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV019767.D (-145) (-)

1.59

150000

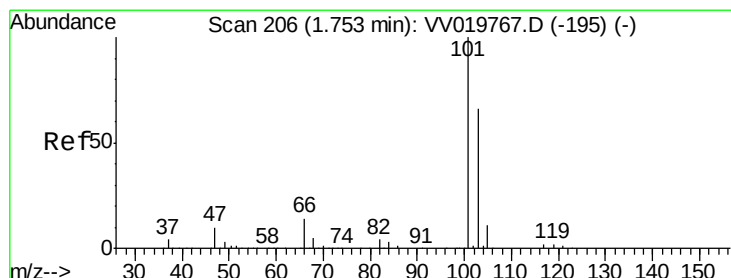
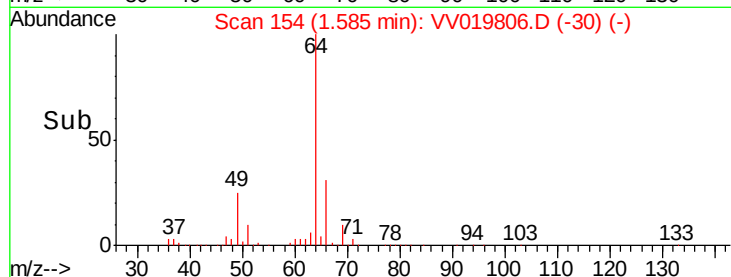
100000

50000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 48.285 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.00 min

Lab File: VV019806.D

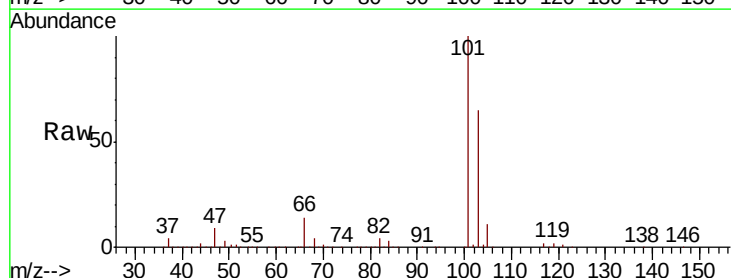
Acq: 23 Dec 2020 11:45

Tgt Ion: 101 Resp: 350275

Ion Ratio Lower Upper

101 100

103 64.5 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VV019767.D (-195) (-)

Ion 103.00 (102.70 to 103.70): VV019767.D (-195) (-)

1.75

300000

250000

200000

150000

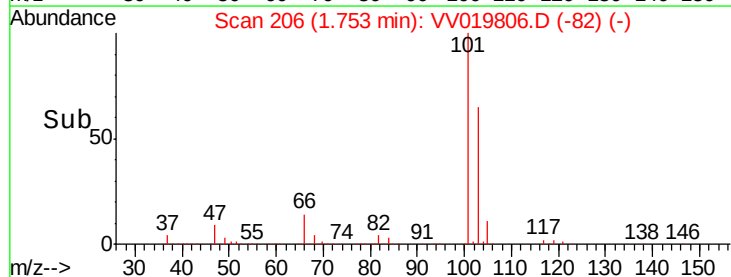
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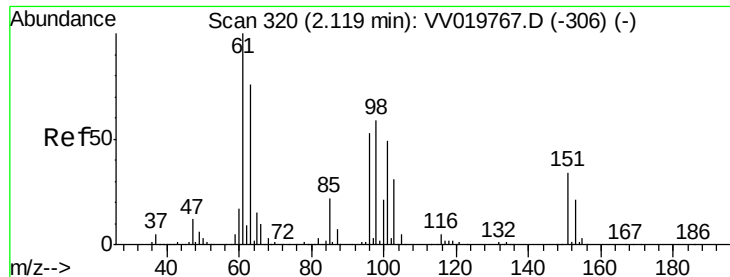
50000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 50.723 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05071

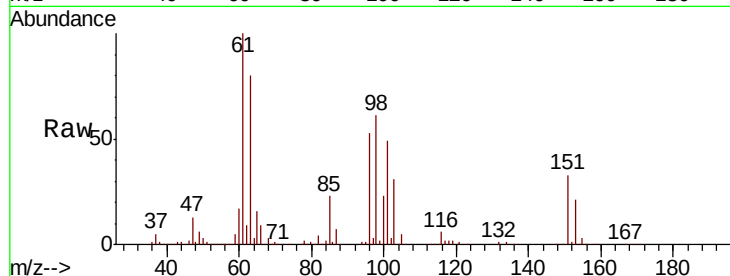
Tot Ion:101 Resp: 203209

Ion Ratio Lower Upper

101 100

85 45.0 35.0 52.4

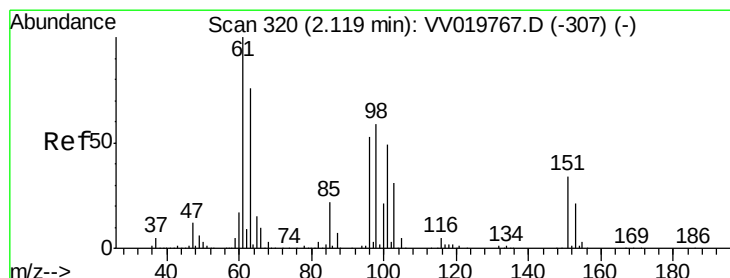
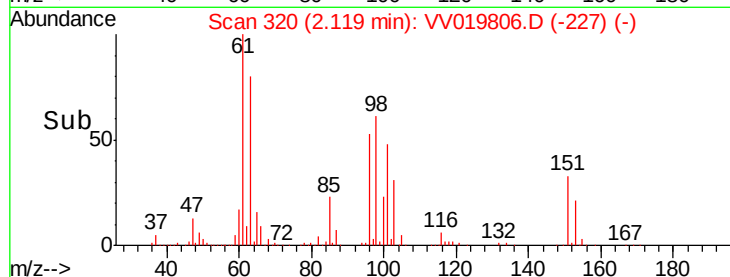
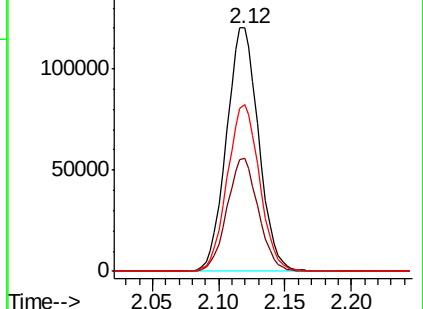
151 68.2 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): VV019767.D (-306) (-)

Ion 85.00 (84.70 to 85.70): VV019767.D (-306) (-)

Ion 151.00 (150.70 to 151.70): VV019767.D (-306) (-)



#12

1,1-Dichloroethene

Concen: 46.714 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

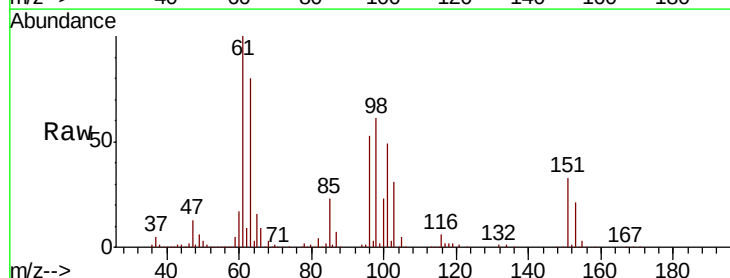
Tgt Ion: 96 Resp: 192046

Ion Ratio Lower Upper

96 100

61 189.3 120.7 224.1

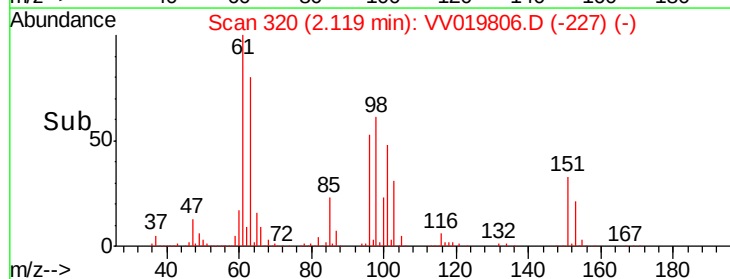
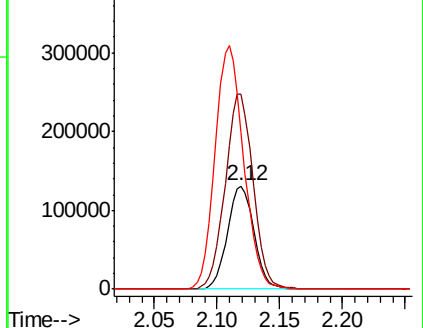
63 152.2 64.3 119.5#

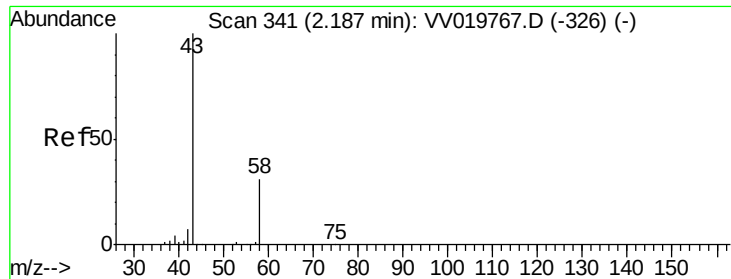


Abundance Ion 96.00 (95.70 to 96.70): VV019767.D (-307) (-)

Ion 61.00 (60.70 to 61.70): VV019767.D (-307) (-)

Ion 63.00 (62.70 to 63.70): VV019767.D (-307) (-)





#13

Acetone

Concen: 116.120 ug/L

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

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Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

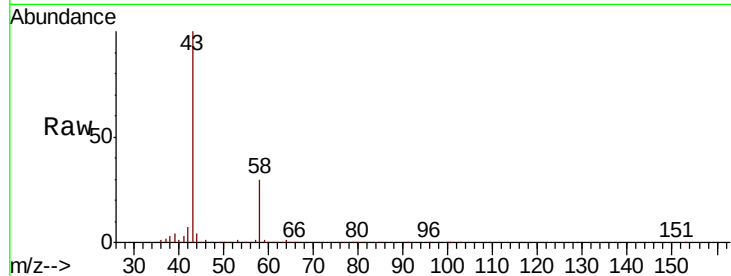
VSTD05071

Tot Ion: 43 Resp: 266068

Ion Ratio Lower Upper

43 100

58 30.4 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV019767.D (-326) (-)

Ion 58.00 (57.70 to 58.70): VV019767.D (-326) (-)

2.18

120000

100000

80000

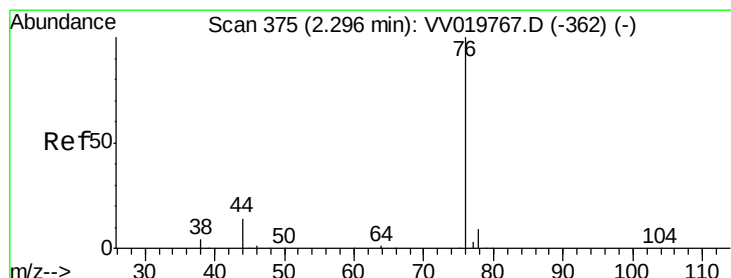
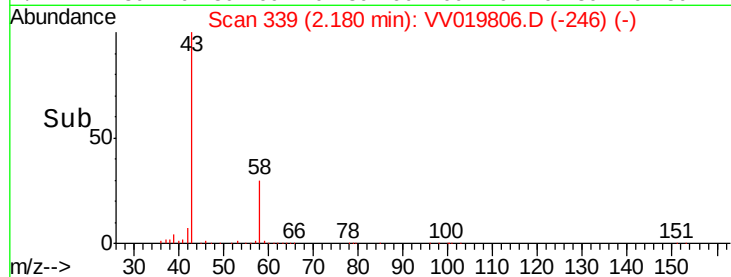
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 41.518 ug/L

RT: 2.30 min Scan# 375

Delta R.T. -0.00 min

Lab File: VV019806.D

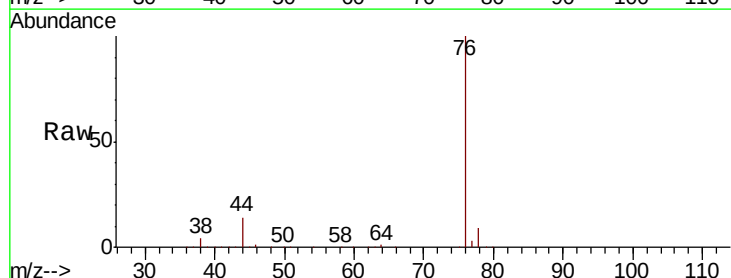
Acq: 23 Dec 2020 11:45

Tgt Ion: 76 Resp: 560823

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV019767.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VV019767.D (-362) (-)

2.30

400000

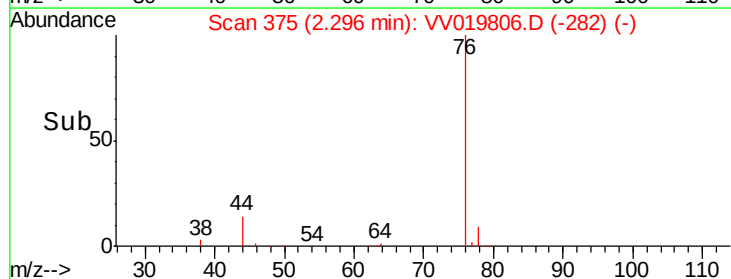
300000

200000

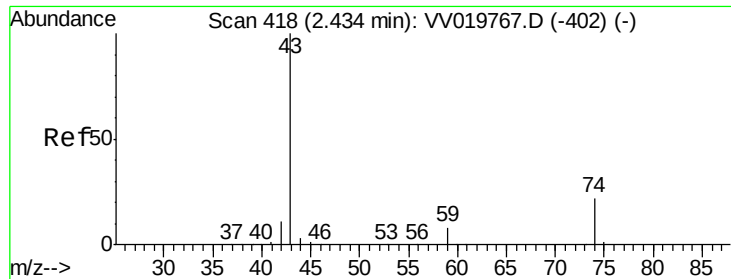
100000

0

Time-->



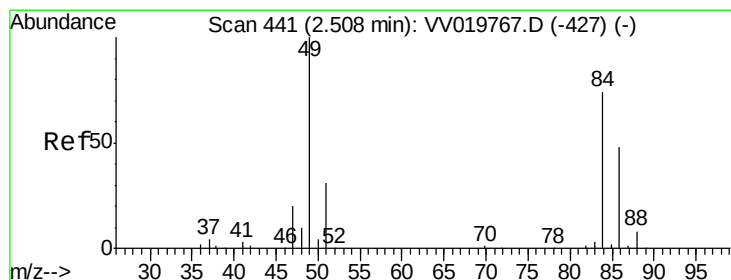
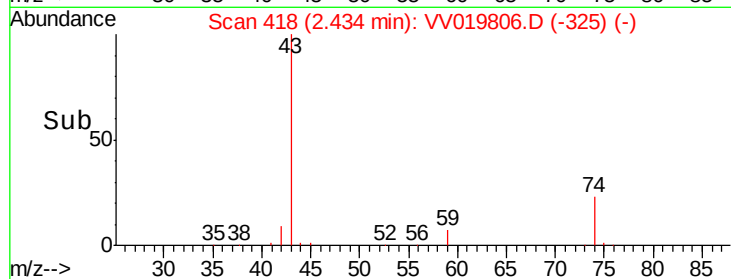
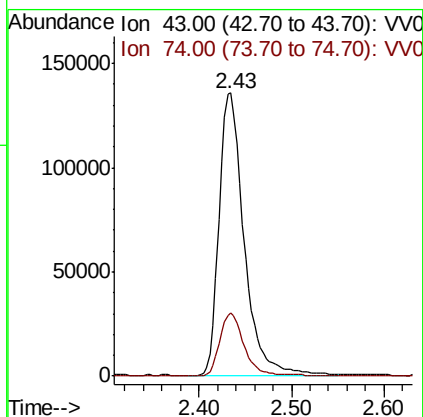
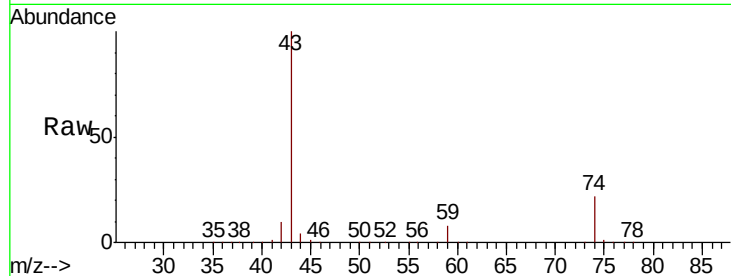




#15  
Methvl Acetate  
Concen: 51.065 ug/L  
RT: 2.43 min Scan# 418  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

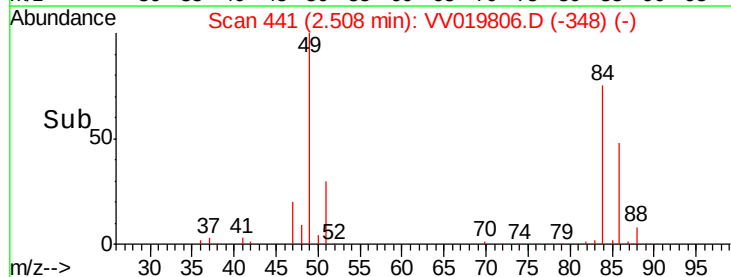
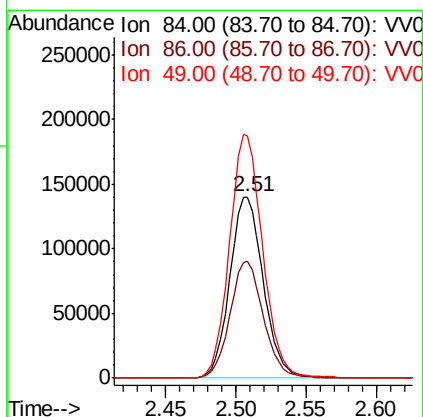
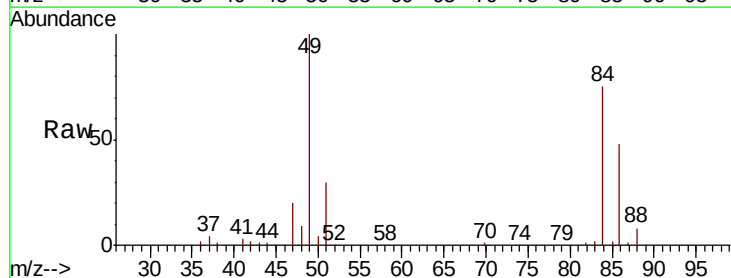
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

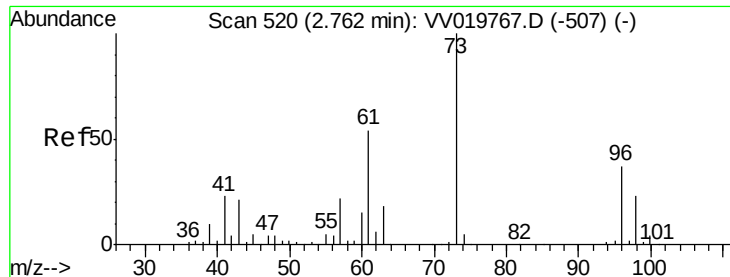
Tot Ion: 43 Resp: 254924  
Ion Ratio Lower Upper  
43 100  
74 21.8 18.2 27.4



#16  
Methylene chloride  
Concen: 48.364 ug/L  
RT: 2.51 min Scan# 441  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Tgt Ion: 84 Resp: 233117  
Ion Ratio Lower Upper  
84 100  
86 64.5 45.7 84.9  
49 133.9 90.6 168.3

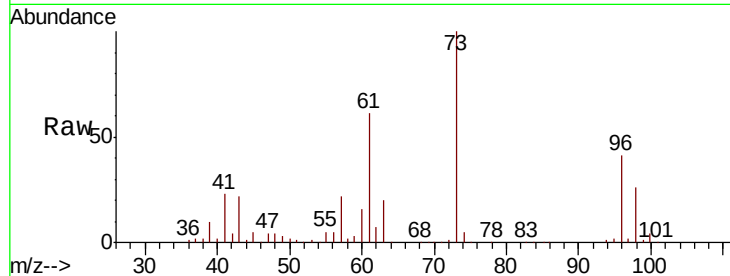




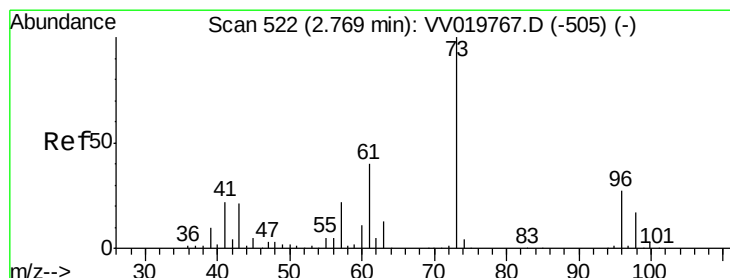
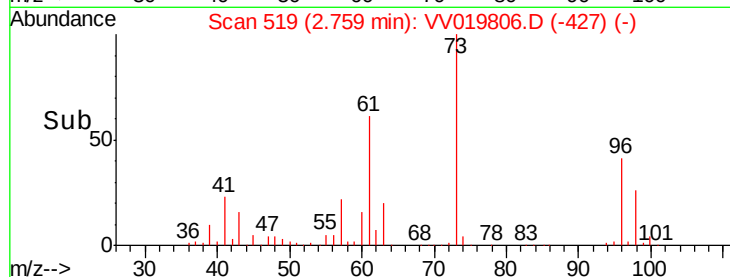
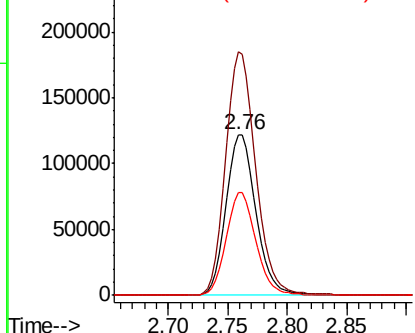
#17  
trans-1,2-Dichloroethene  
Concen: 47.288 ug/L  
RT: 2.76 min Scan# 519  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

Tot Ion: 96 Resp: 213081  
Ion Ratio Lower Upper  
96 100  
61 151.2 103.5 192.1  
98 63.7 44.4 82.5

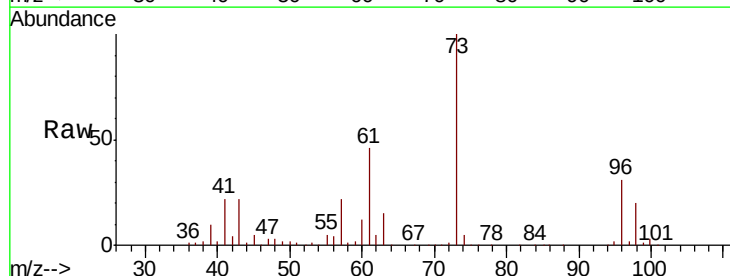


Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

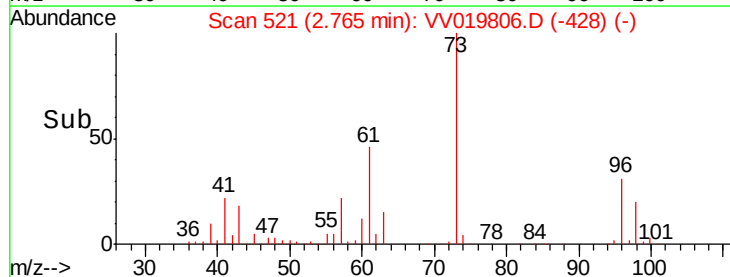
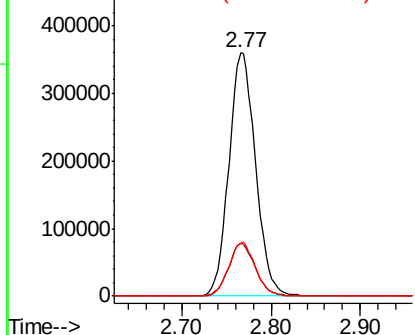


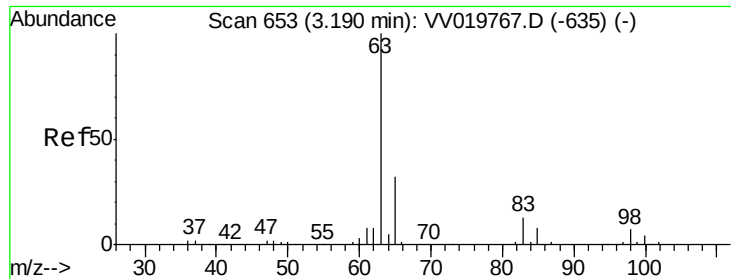
#18  
Methyl tert-butyl Ether  
Concen: 47.243 ug/L  
RT: 2.77 min Scan# 521  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Tgt Ion: 73 Resp: 743854  
Ion Ratio Lower Upper  
73 100  
43 21.5 17.3 25.9  
57 22.1 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VV0  
Ion 43.00 (42.70 to 43.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0

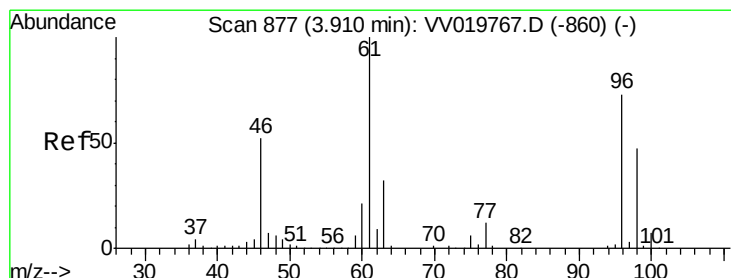
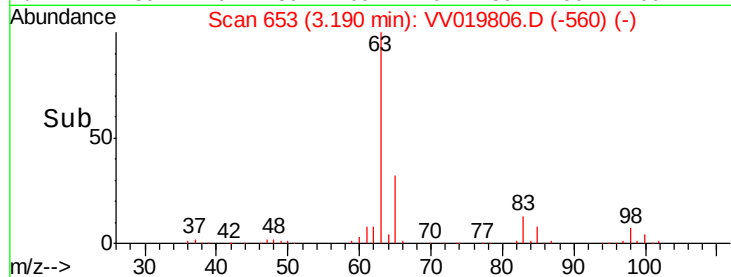
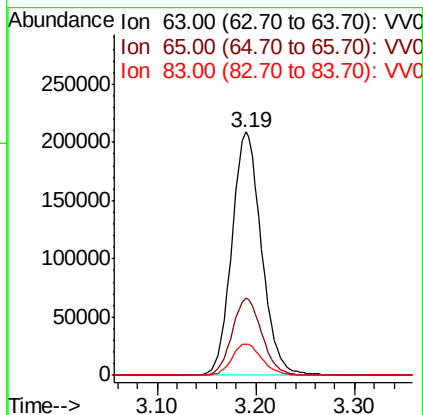
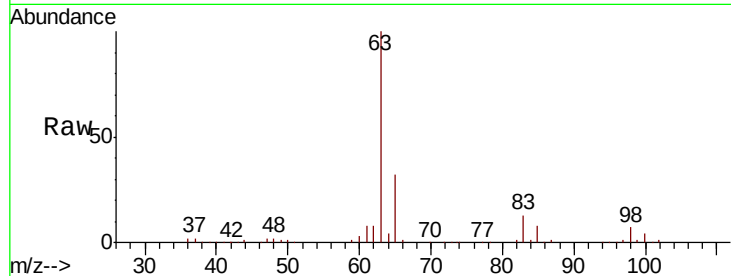




#19  
 1,1-Dichloroethane  
 Concen: 49.911 ug/L  
 RT: 3.19 min Scan# 653  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

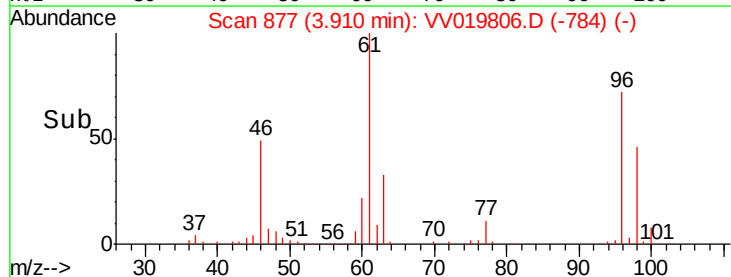
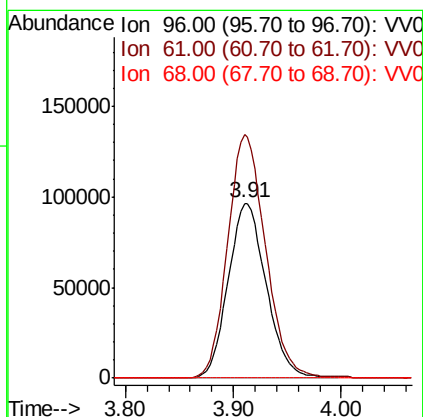
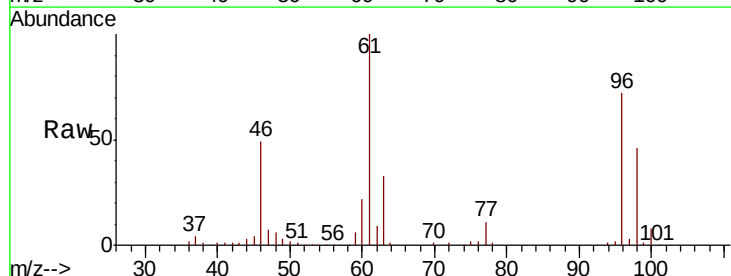
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD05071

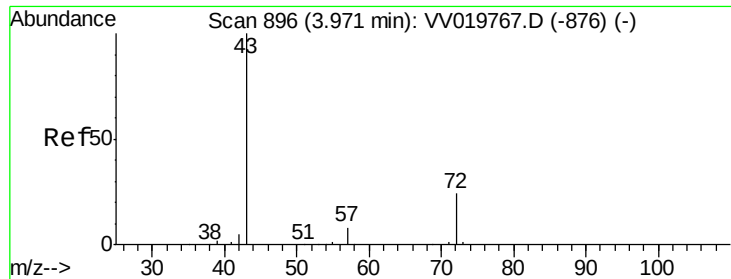
Tot Ion: 63 Resp: 436021  
 Ion Ratio Lower Upper  
 63 100  
 65 31.6 22.4 41.6  
 83 13.0 9.6 17.8



#20  
 cis-1,2-Dichloroethene  
 Concen: 47.861 ug/L  
 RT: 3.91 min Scan# 877  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Tgt Ion: 96 Resp: 237078  
 Ion Ratio Lower Upper  
 96 100  
 61 139.1 94.1 174.8  
 68 0.0 0.1 0.1#





#22

2-Butanone

Concen: 108.991 ug/L

RT: 3.97 min Scan# 896

Delta R.T. 0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

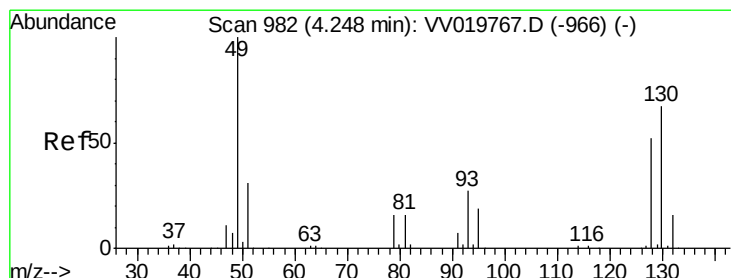
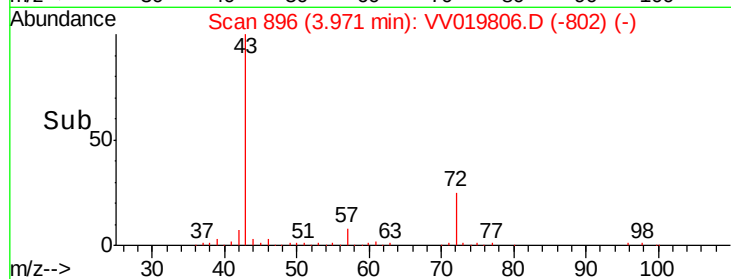
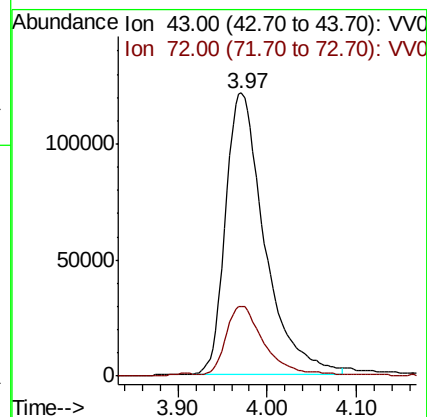
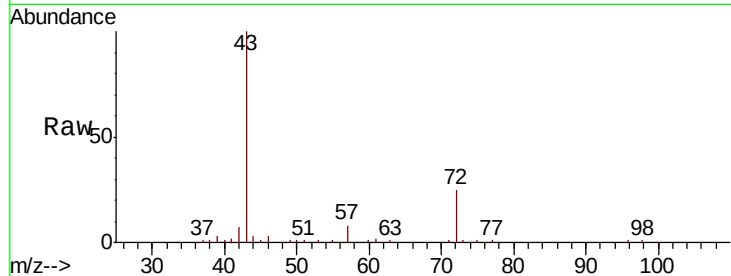
VSTD05071

Tot Ion: 43 Resp: 366323

Ion Ratio Lower Upper

43 100

72 22.8 12.3 36.9



#23

Bromochloromethane

Concen: 47.055 ug/L

RT: 4.25 min Scan# 982

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Tgt Ion: 128 Resp: 114683

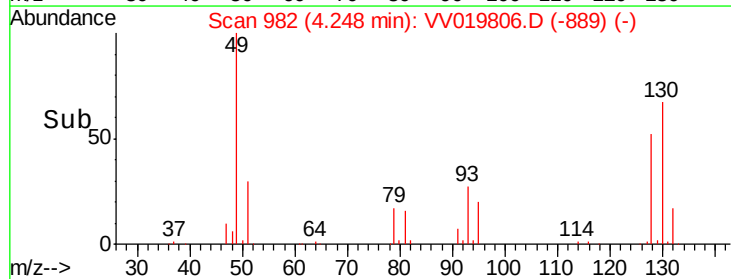
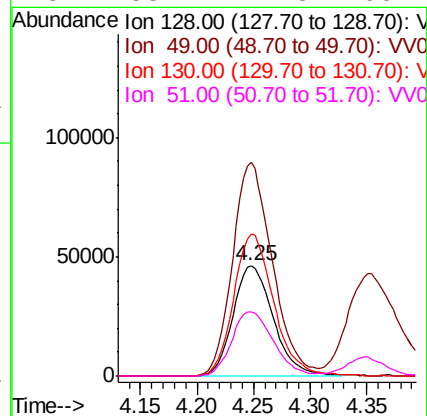
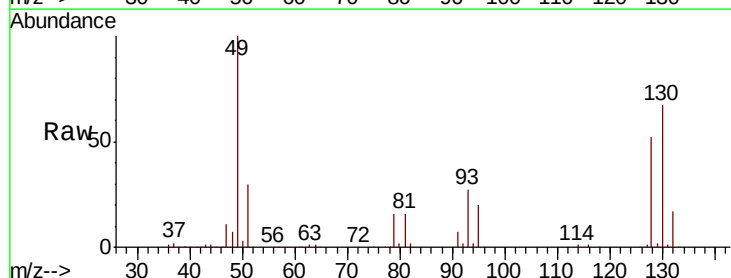
Ion Ratio Lower Upper

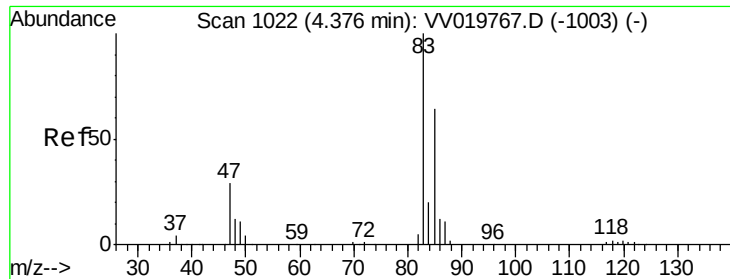
128 100

49 193.3 127.0 235.8

130 128.8 90.3 167.7

51 58.4 44.5 66.7

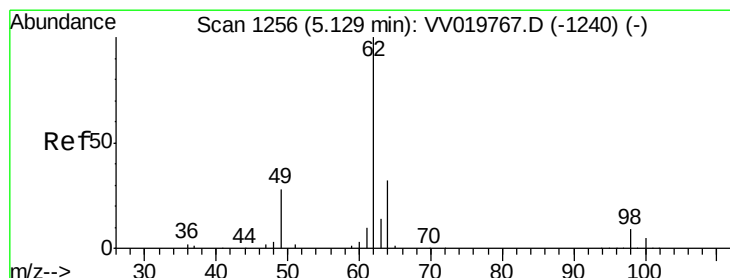
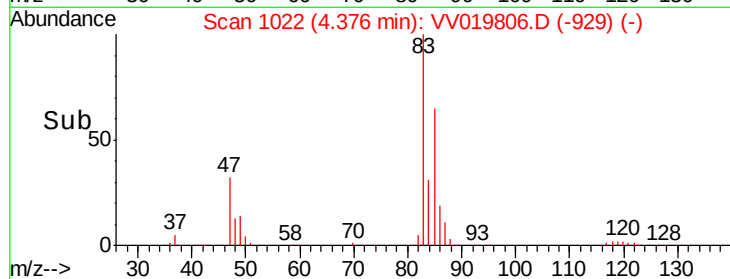
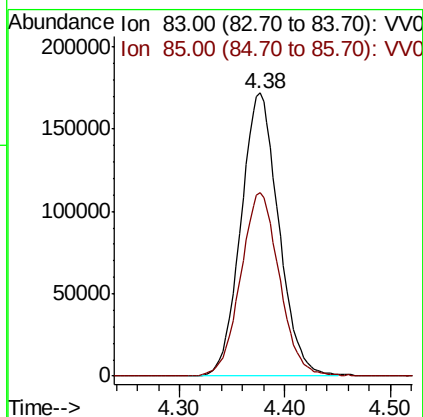
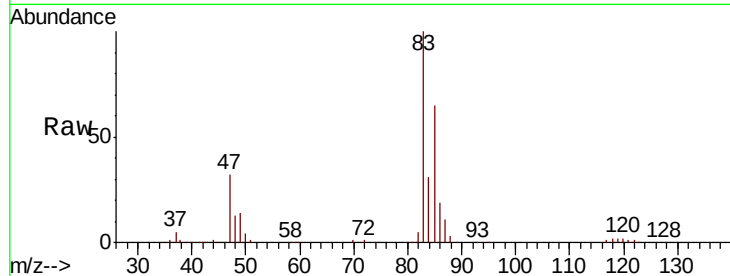




#25  
Chloroform  
Concen: 49.102 ug/L  
RT: 4.38 min Scan# 1022  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

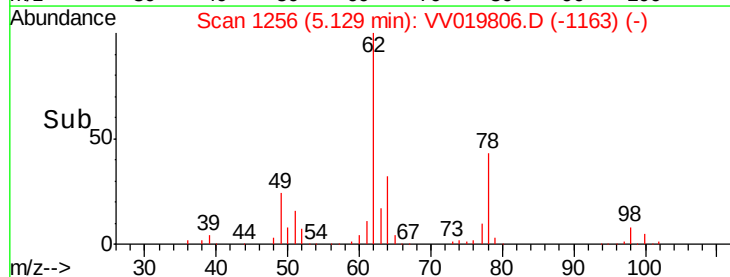
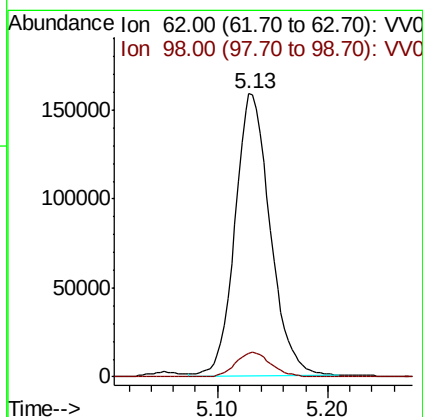
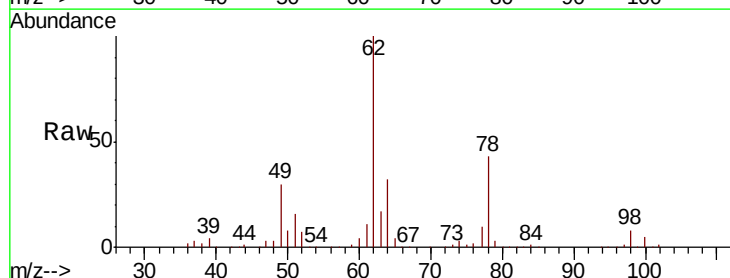
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

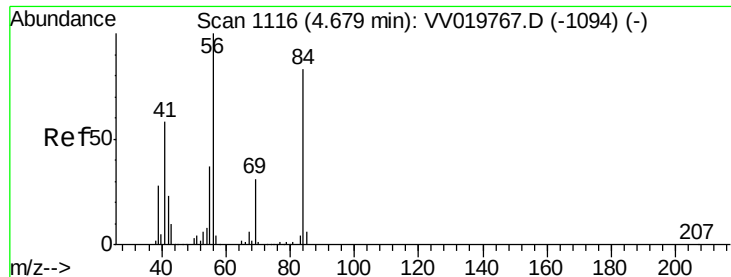
Tot Ion: 83 Resp: 428405  
Ion Ratio Lower Upper  
83 100  
85 65.0 45.6 84.6



#27  
1,2-Dichloroethane  
Concen: 48.384 ug/L  
RT: 5.13 min Scan# 1256  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Tgt Ion: 62 Resp: 349720  
Ion Ratio Lower Upper  
62 100  
98 8.5 7.4 11.0

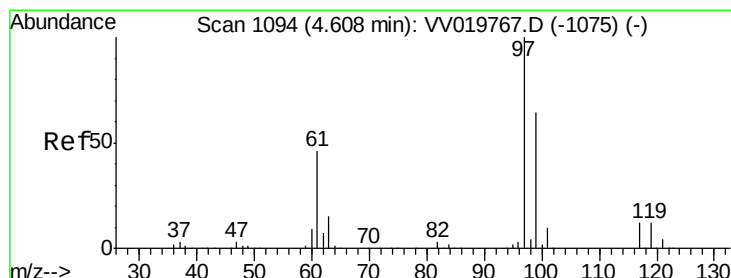
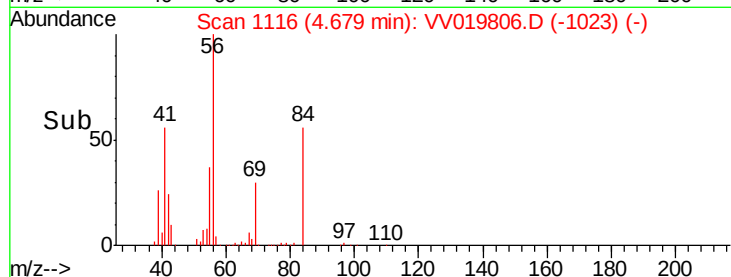
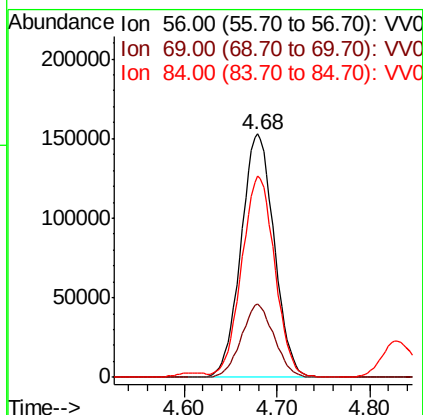
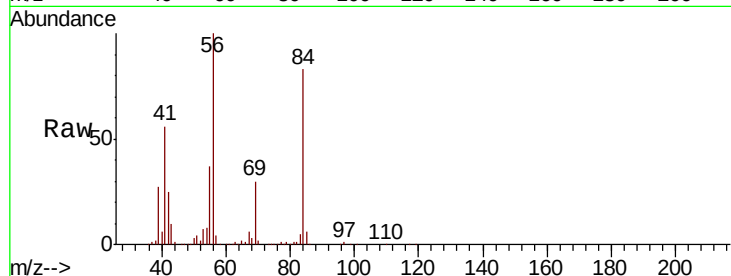




#29  
Cyclohexane  
Concen: 47.489 ug/L  
RT: 4.68 min Scan# 1116  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

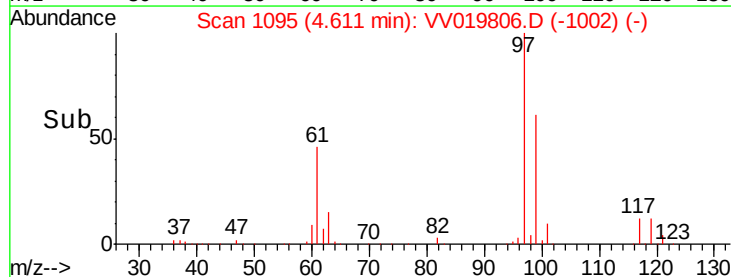
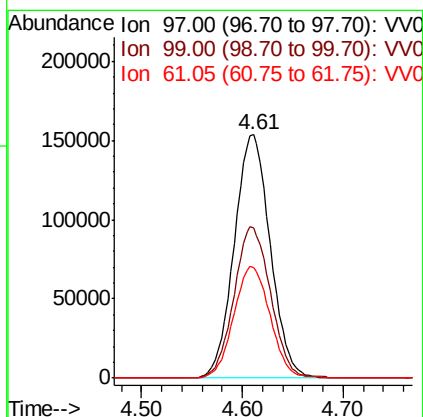
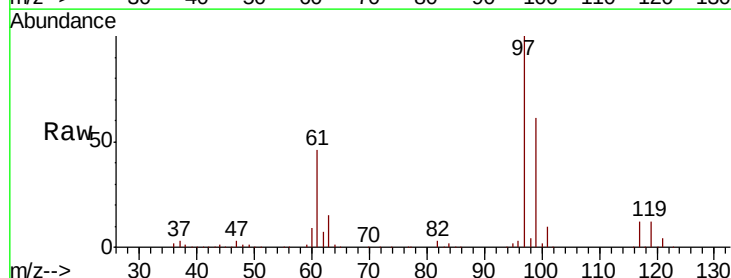
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

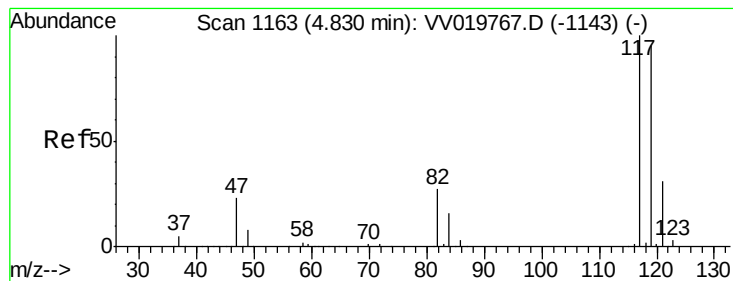
Tot Ion: 56 Resp: 379404  
Ion Ratio Lower Upper  
56 100  
69 29.6 24.6 37.0  
84 82.3 68.2 102.4



#30  
1,1,1-Trichloroethane  
Concen: 46.583 ug/L  
RT: 4.61 min Scan# 1095  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Tgt Ion: 97 Resp: 380747  
Ion Ratio Lower Upper  
97 100  
99 63.1 51.3 76.9  
61 46.8 36.3 54.5





#31

Carbon tetrachloride

Concen: 45.497 ug/L

RT: 4.83 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampled :

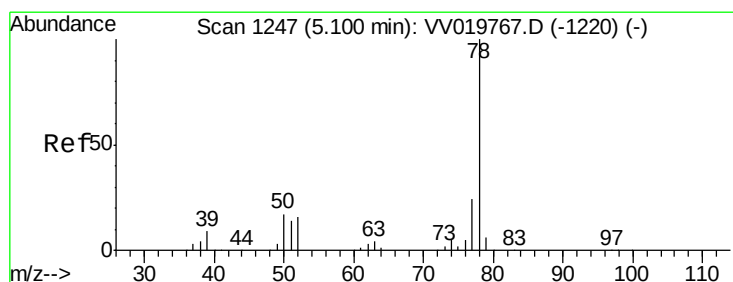
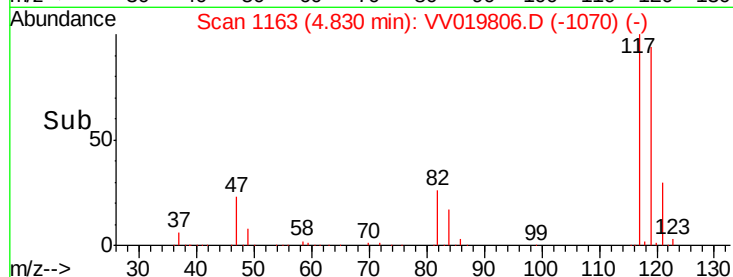
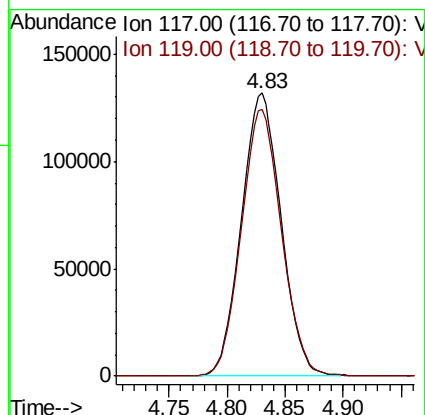
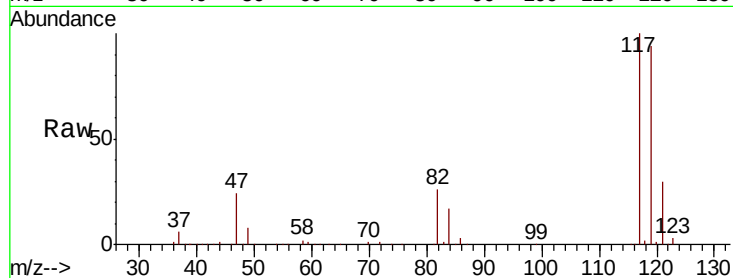
VSTD05071

Tot Ion:117 Resp: 313929

Ion Ratio Lower Upper

117 100

119 95.3 75.7 113.5



#33

Benzene

Concen: 47.971 ug/L

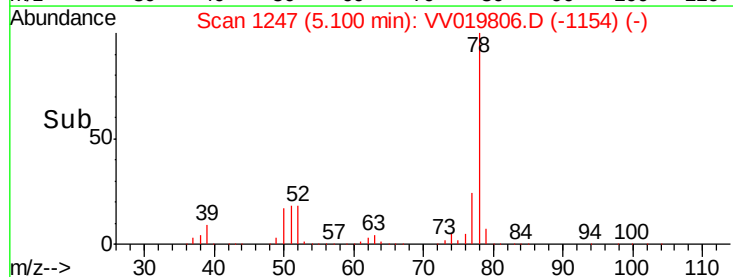
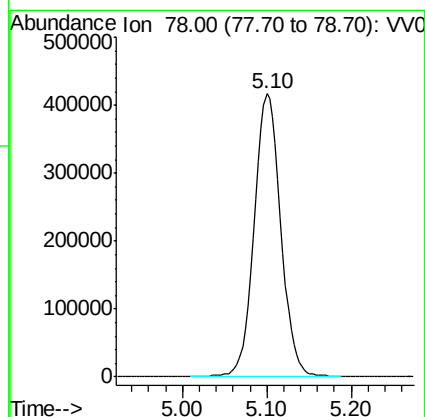
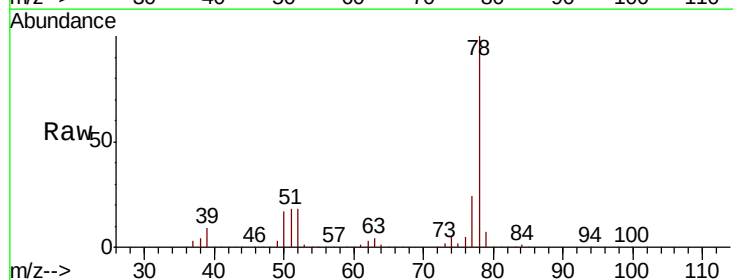
RT: 5.10 min Scan# 1247

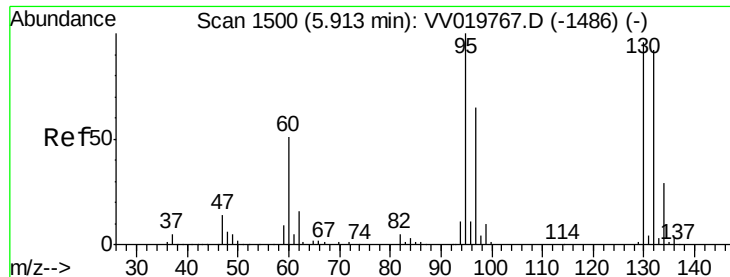
Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Tgt Ion: 78 Resp: 913899





#34

Trichloroethene

Concen: 48.308 ug/L

RT: 5.92 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05071

Tot Ion: 95 Resp: 243117

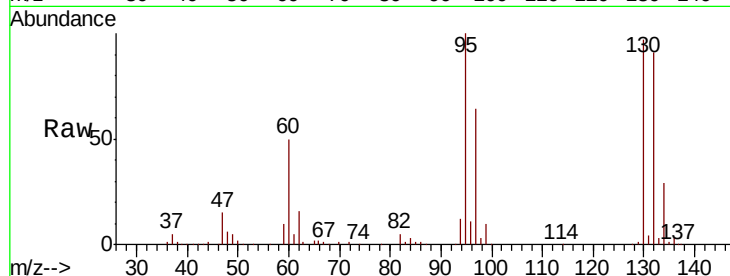
Ion Ratio Lower Upper

95 100

97 63.6 44.4 82.4

132 90.6 64.3 119.3

130 96.8 67.8 125.8

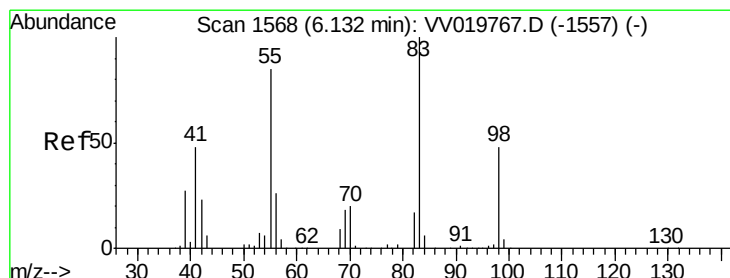
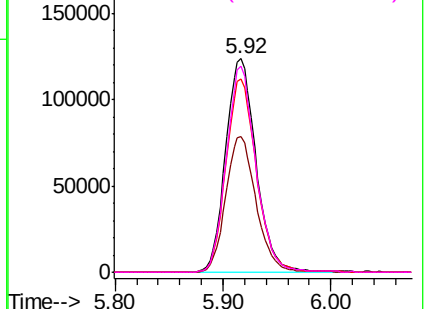
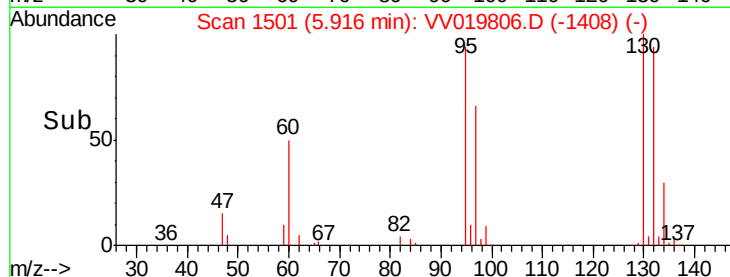


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 49.225 ug/L

RT: 6.13 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

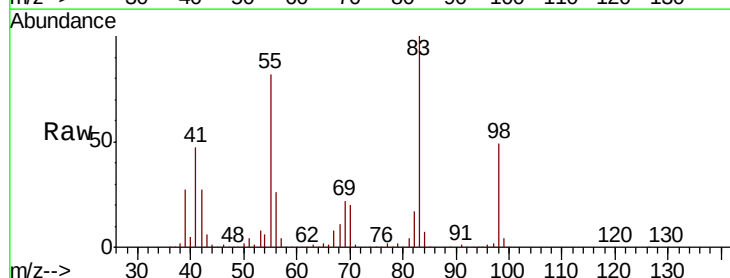
Tgt Ion: 83 Resp: 376348

Ion Ratio Lower Upper

83 100

55 81.5 64.2 96.4

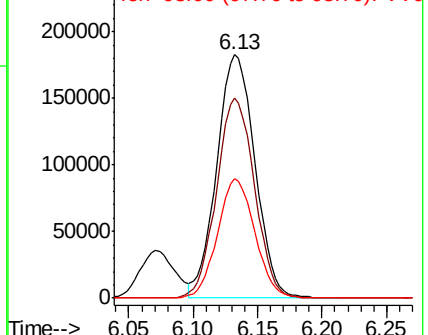
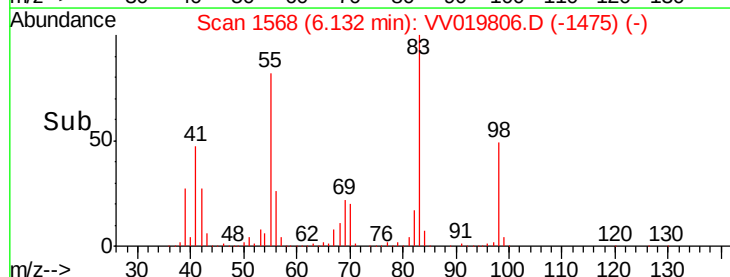
98 48.0 39.3 58.9



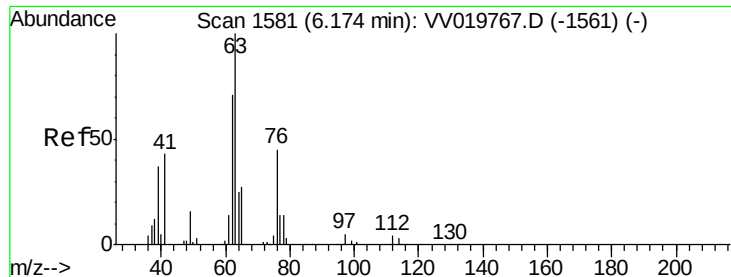
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



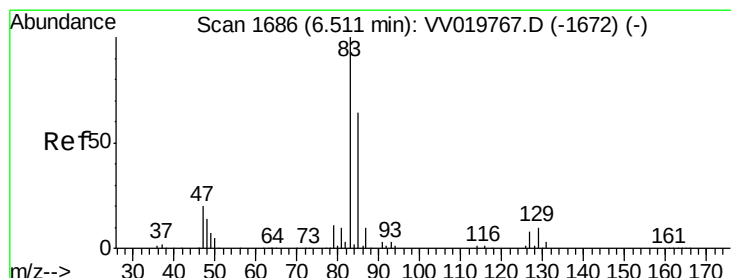
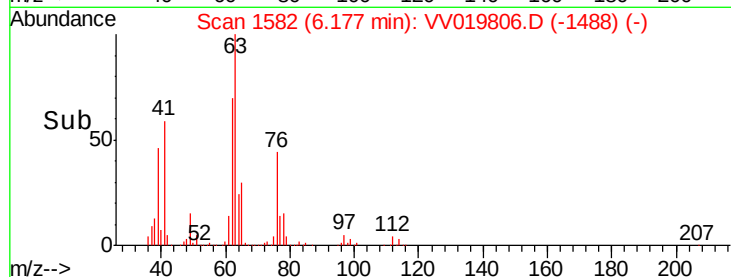
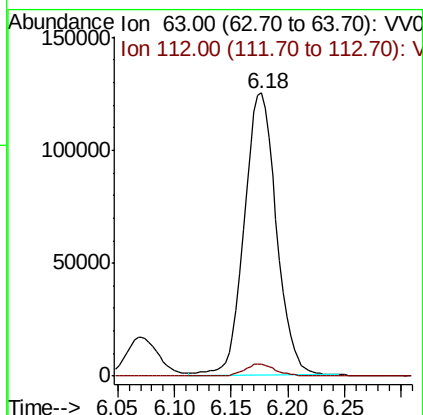
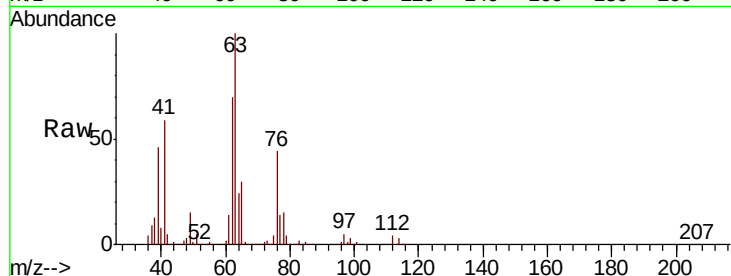




#37  
 1,2-Dichloropropane  
 Concen: 49.615 ug/L  
 RT: 6.18 min Scan# 1582  
 Delta R.T. 0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

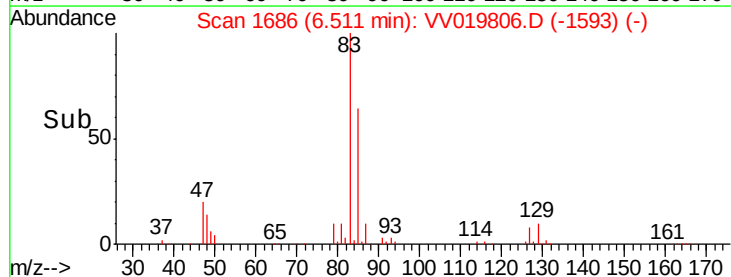
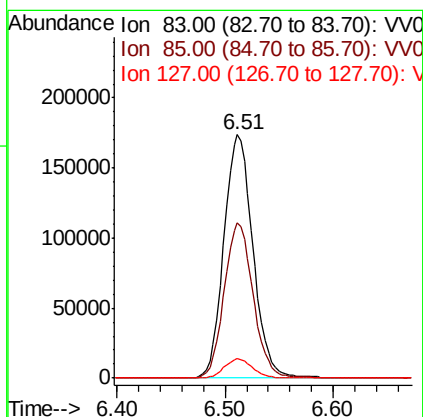
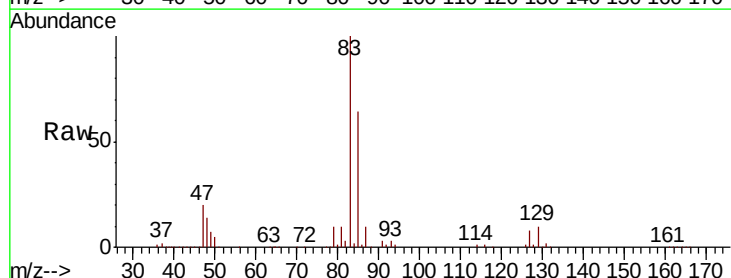
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VSTD05071

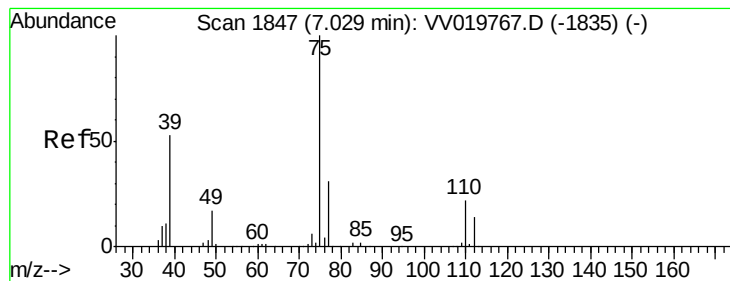
Tot Ion: 63 Resp: 246843  
 Ion Ratio Lower Upper  
 63 100  
 112 4.2 3.5 5.3



#38  
 Bromodichloromethane  
 Concen: 46.838 ug/L  
 RT: 6.51 min Scan# 1686  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Tgt Ion: 83 Resp: 325854  
 Ion Ratio Lower Upper  
 83 100  
 85 63.5 44.9 83.5  
 127 7.8 6.7 10.1



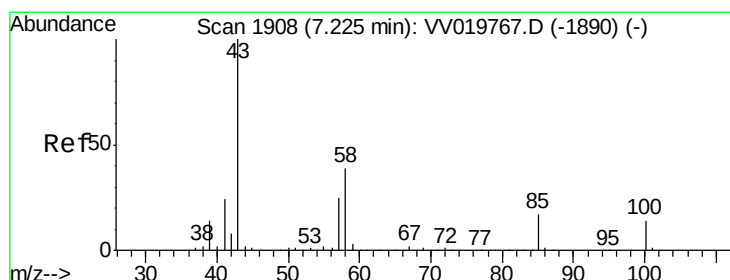
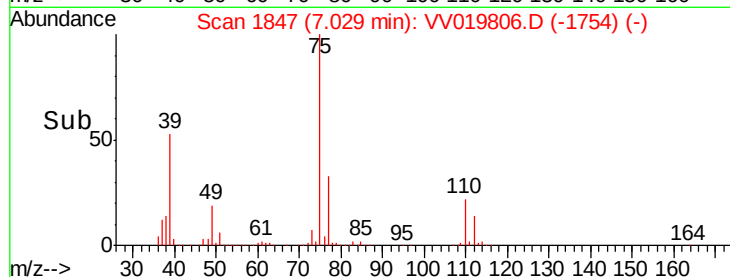
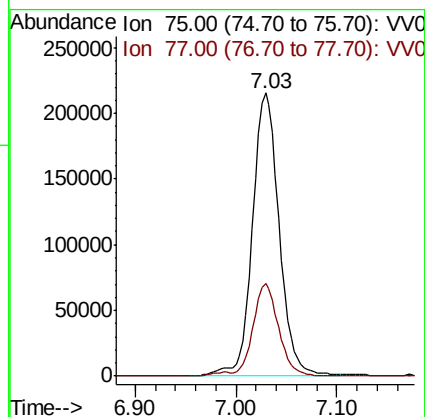
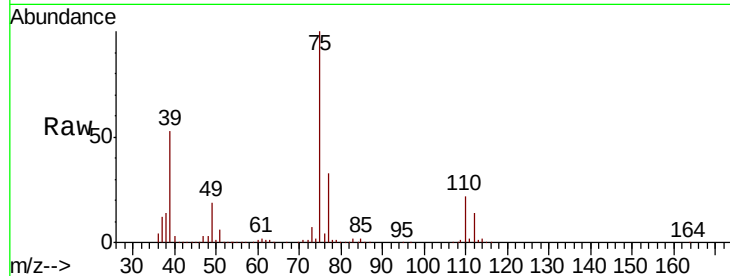


#39

cis-1,3-Dichloropropene  
 Concen: 47.795 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

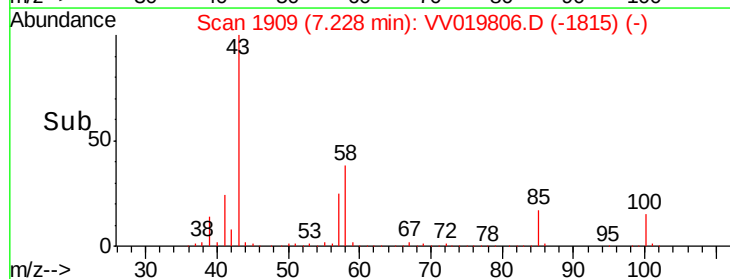
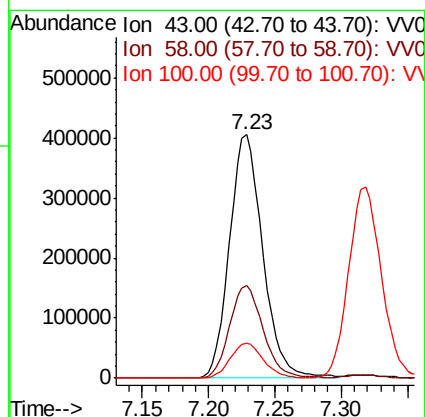
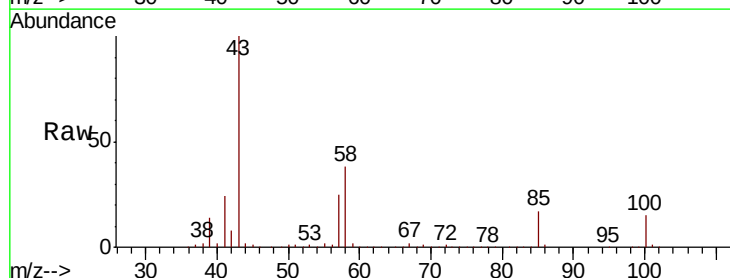
Tot Ion: 75 Resp: 394936  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 22.4 41.6

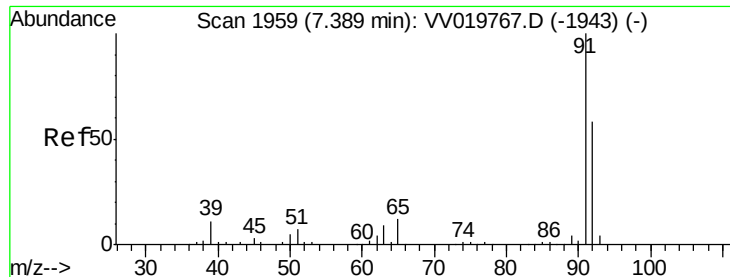


#40

4-Methyl-2-pentanone  
 Concen: 98.626 ug/L  
 RT: 7.23 min Scan# 1909  
 Delta R.T. 0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Tgt Ion: 43 Resp: 707914  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 31.7 47.5  
 100 14.3 12.5 18.7





#42

Toluene

Concen: 47.310 ug/L

RT: 7.39 min Scan# 1959

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

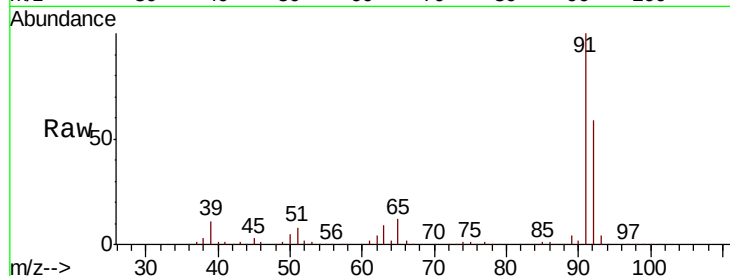
VSTD05071

Tot Ion: 91 Resp: 949934

Ion Ratio Lower Upper

91 100

92 58.6 41.4 76.8



Abundance Ion 91.00 (90.70 to 91.70): VV019767.D (-1943) (-)

Ion 92.00 (91.70 to 92.70): VV019767.D (-1943) (-)

7.39

600000

500000

400000

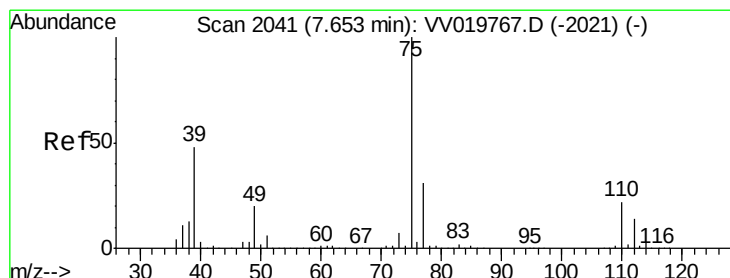
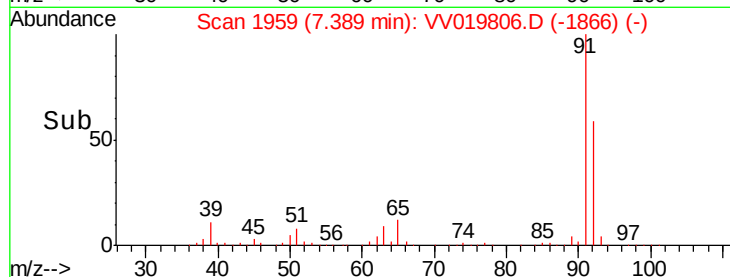
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.378 ug/L

RT: 7.65 min Scan# 2041

Delta R.T. -0.00 min

Lab File: VV019806.D

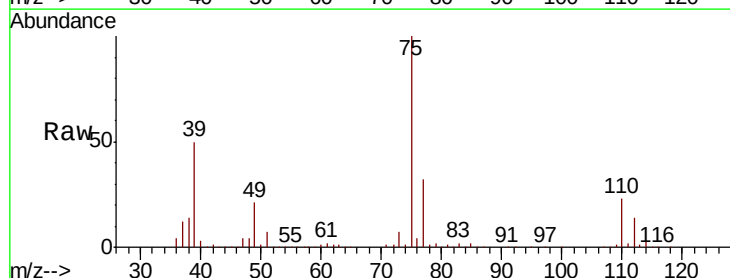
Acq: 23 Dec 2020 11:45

Tgt Ion: 75 Resp: 379672

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV019767.D (-2021) (-)

Ion 77.00 (76.70 to 77.70): VV019767.D (-2021) (-)

7.65

250000

200000

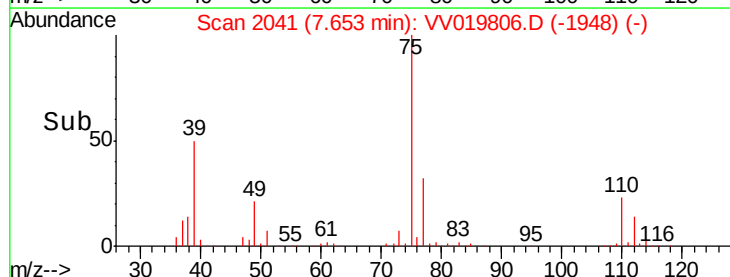
150000

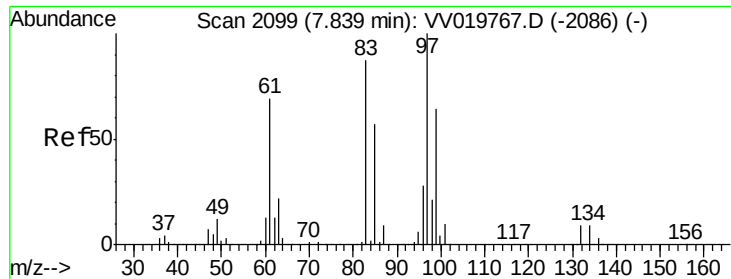
100000

50000

0

Time-->

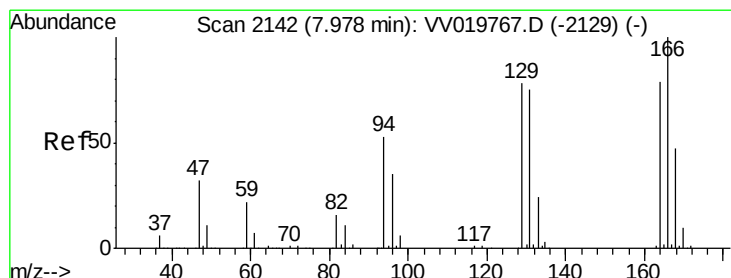
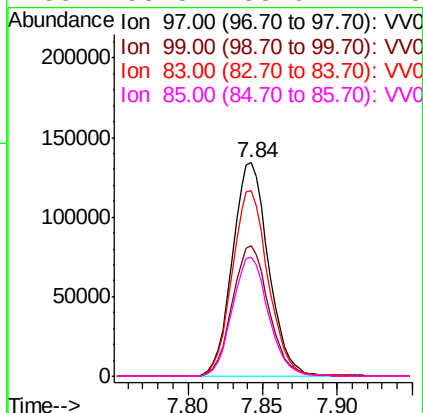
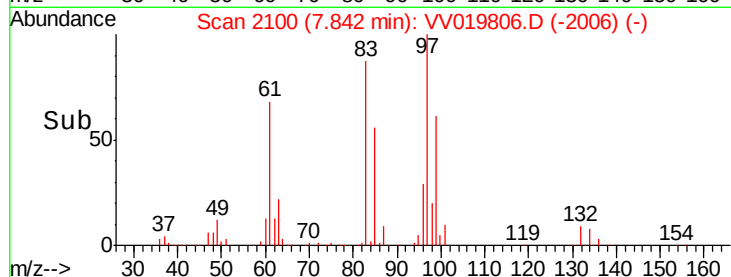
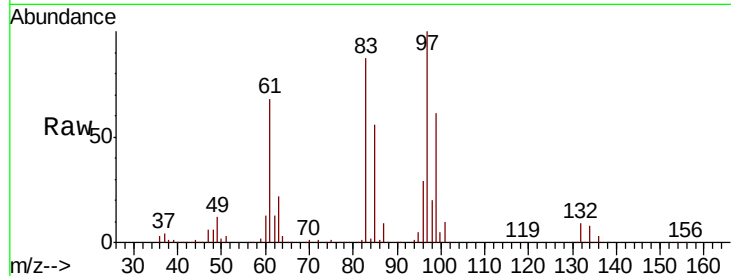




#45  
1,1,2-Trichloroethane  
Concen: 47.700 ug/L  
RT: 7.84 min Scan# 2100  
Delta R.T. 0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

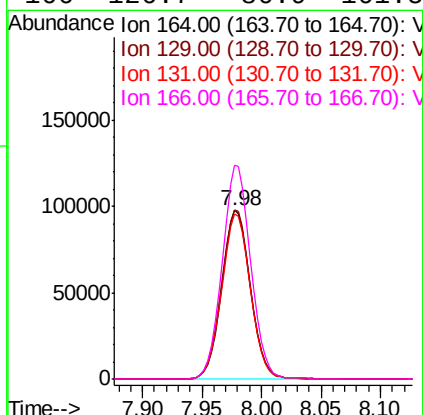
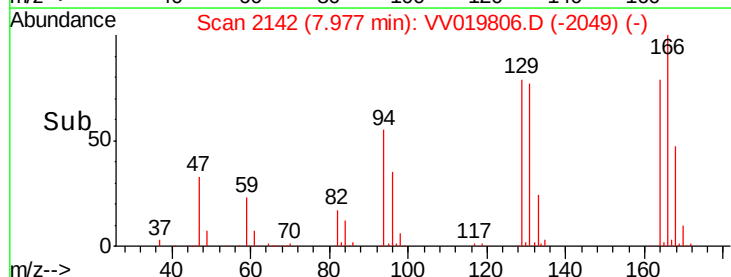
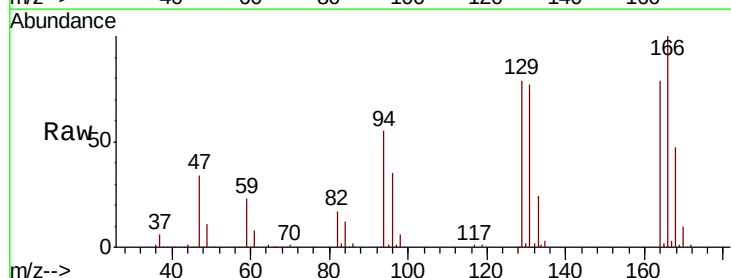
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

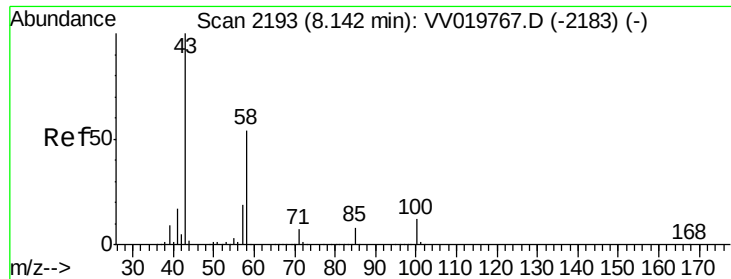
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 225364 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 60.9  | 44.1  | 81.9   |
| 83       | 86.8  | 60.0  | 111.4  |
| 85       | 55.8  | 38.6  | 71.8   |



#46  
Tetrachloroethene  
Concen: 46.704 ug/L  
RT: 7.98 min Scan# 2142  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 162637 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 100.5 | 70.6  | 131.0  |
| 131      | 97.9  | 68.0  | 126.4  |
| 166      | 126.7 | 86.9  | 161.5  |

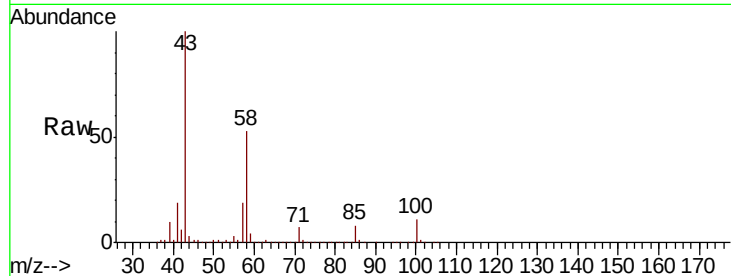




#48  
2-Hexanone  
Concen: 101.302 ug/L  
RT: 8.14 min Scan# 2193  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 53.2  | 44.4  | 66.6  |
| 57      | 19.1  | 15.7  | 23.5  |
| 100     | 11.5  | 9.9   | 14.9  |



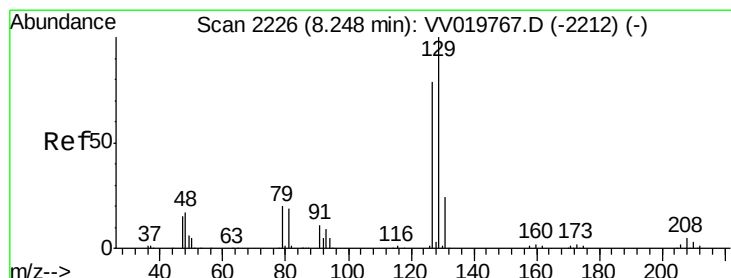
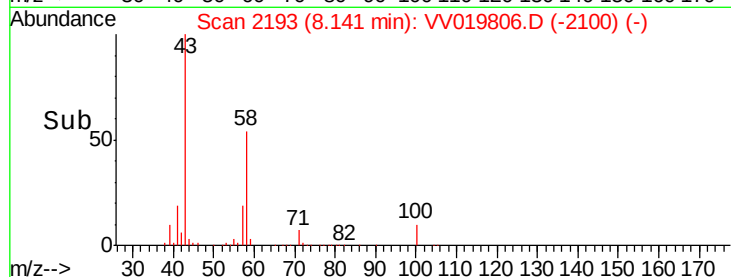
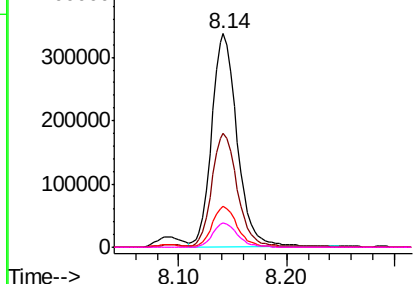
Abundance

Ion 43.00 (42.70 to 43.70): VV019767.D (-2183) (-)

Ion 58.00 (57.70 to 58.70): VV019767.D (-2183) (-)

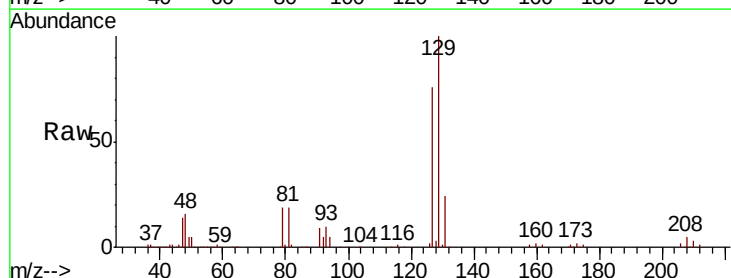
Ion 57.00 (56.70 to 57.70): VV019767.D (-2183) (-)

Ion 100.00 (99.70 to 100.70): VV019767.D (-2183) (-)



#49  
Dibromochloromethane  
Concen: 45.702 ug/L  
RT: 8.25 min Scan# 2227  
Delta R.T. 0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

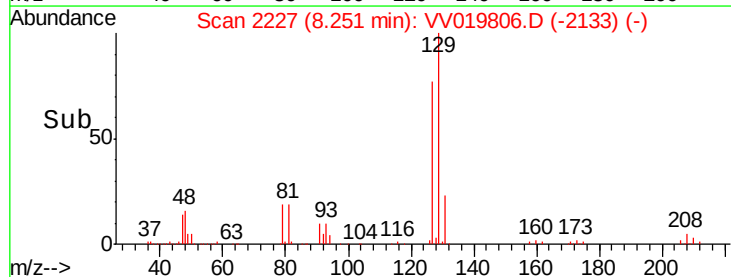
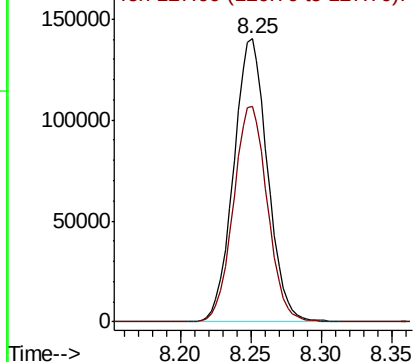
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 76.0  | 54.2  | 100.6 |

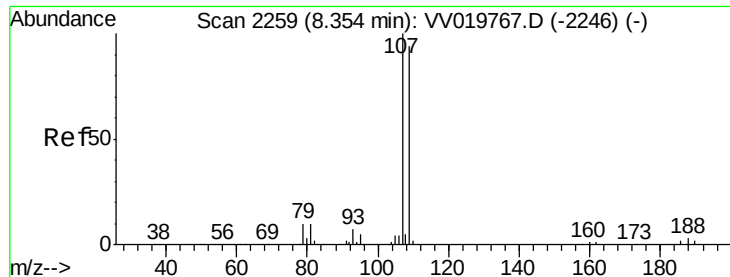


Abundance

Ion 129.00 (128.70 to 129.70): VV019767.D (-2212) (-)

Ion 127.00 (126.70 to 127.70): VV019767.D (-2212) (-)

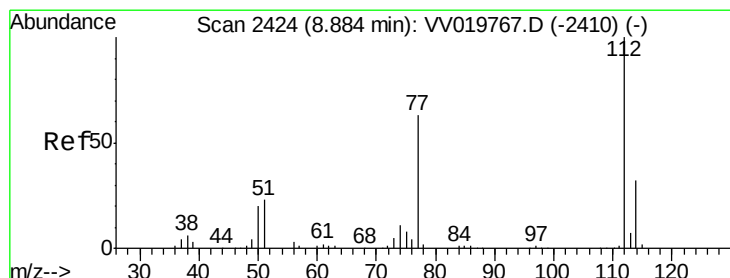
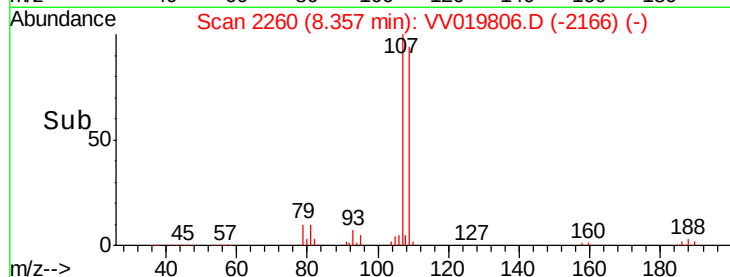
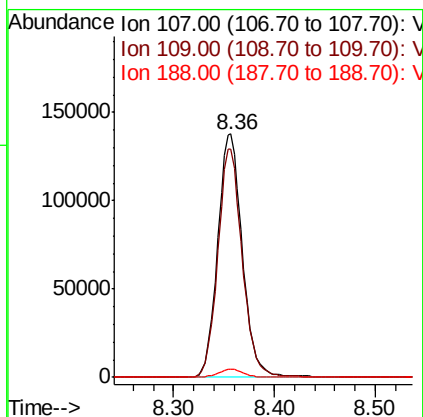
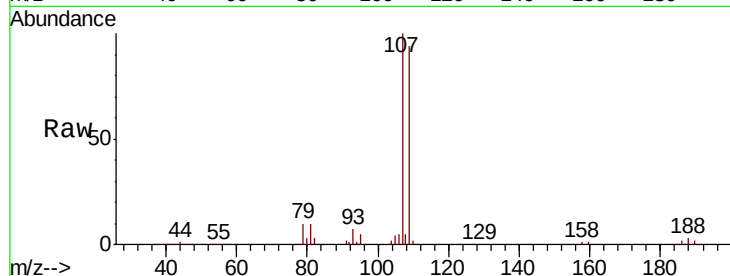




#50  
1,2-Dibromoethane  
Concen: 47.185 ug/L  
RT: 8.36 min Scan# 2260  
Delta R.T. 0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

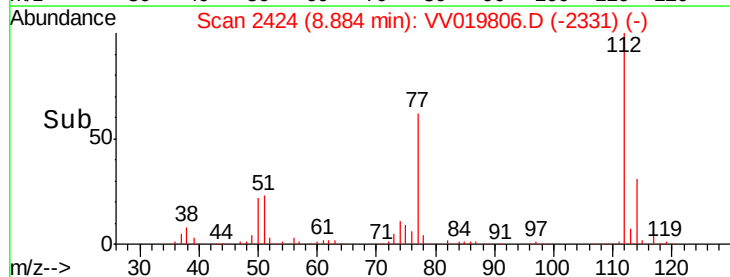
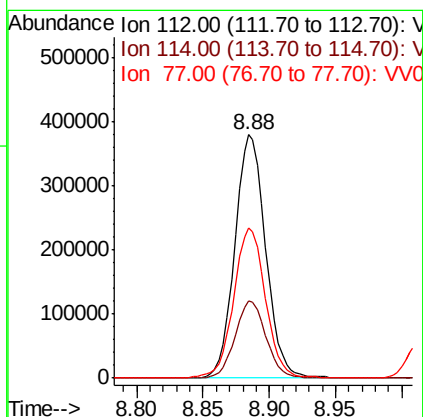
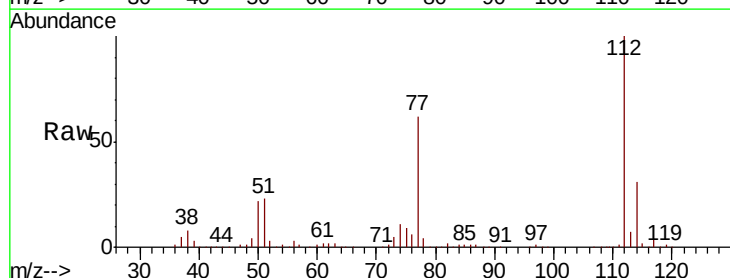
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD05071

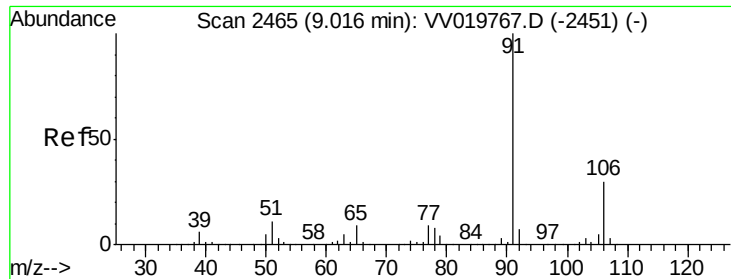
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.7  | 66.4  | 123.2 |
| 188     | 3.2   | 2.9   | 4.3   |



#51  
Chlorobenzene  
Concen: 47.816 ug/L  
RT: 8.88 min Scan# 2424  
Delta R.T. -0.00 min  
Lab File: VV019806.D  
Acq: 23 Dec 2020 11:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.5  | 22.2  | 41.2  |
| 77      | 61.8  | 50.6  | 75.8  |





#52

Ethylbenzene

Concen: 47.792 ug/L

RT: 9.02 min Scan# 2465

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

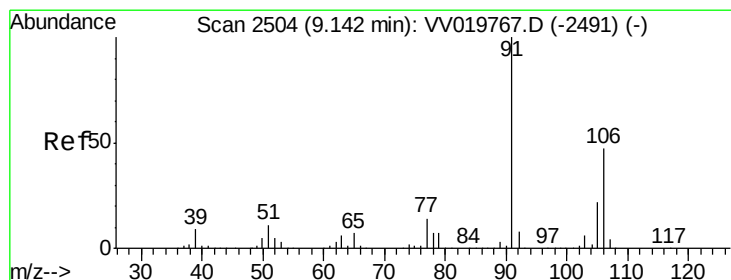
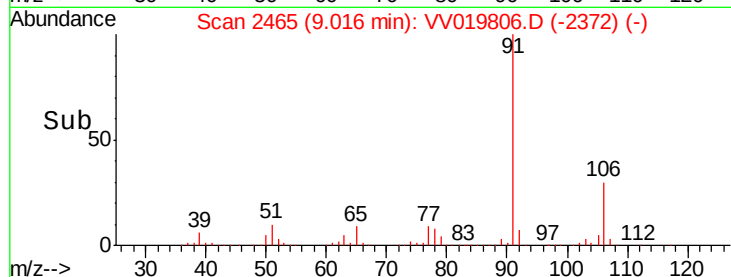
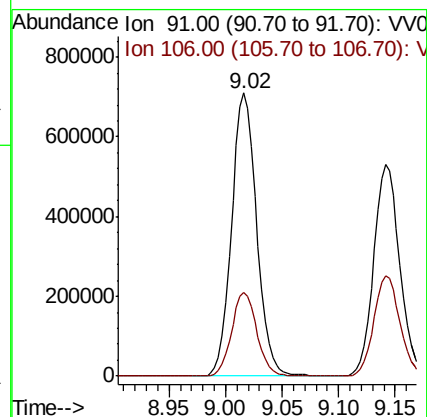
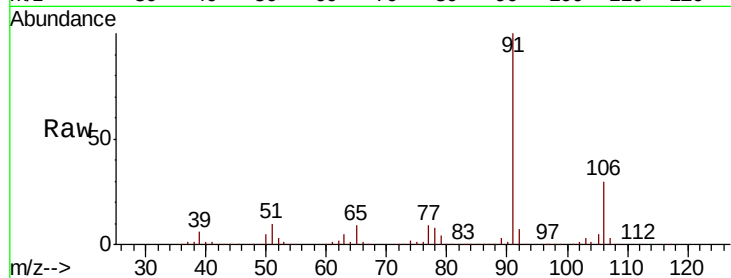
VSTD05071

Tot Ion: 91 Resp: 1093335

Ion Ratio Lower Upper

91 100

106 29.7 21.1 39.3



#53

m,p-Xylene

Concen: 47.022 ug/L

RT: 9.14 min Scan# 2504

Delta R.T. -0.00 min

Lab File: VV019806.D

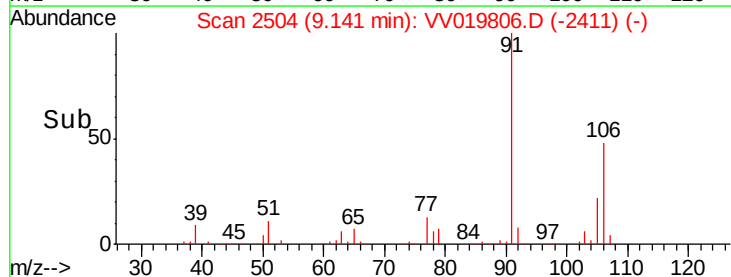
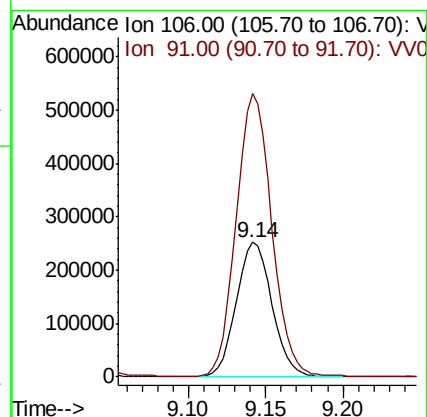
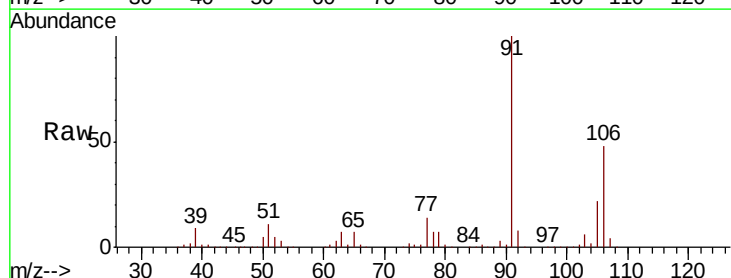
Acq: 23 Dec 2020 11:45

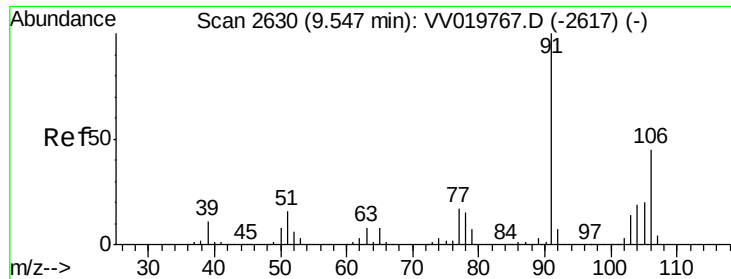
Tgt Ion: 106 Resp: 401884

Ion Ratio Lower Upper

106 100

91 210.1 147.7 274.3





#54

o-xylene

Concen: 46.392 ug/L

RT: 9.55 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

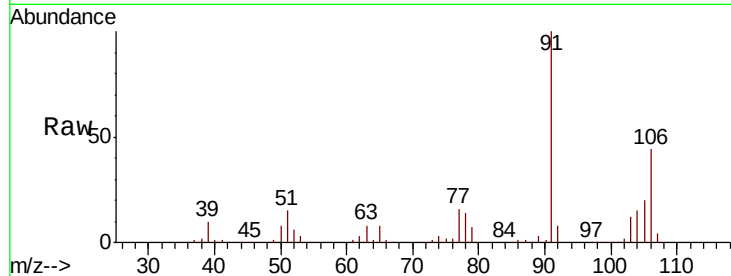
VSTD05071

Tot Ion:106 Resp: 388641

Ion Ratio Lower Upper

106 100

91 225.7 156.7 291.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

600000

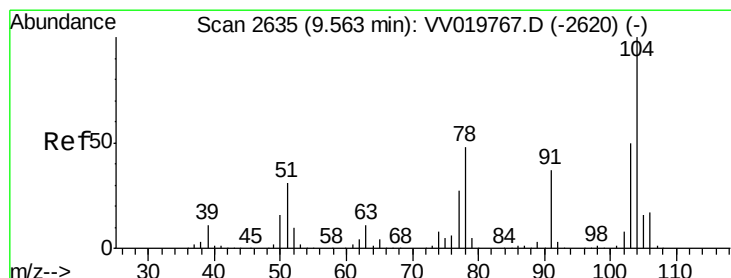
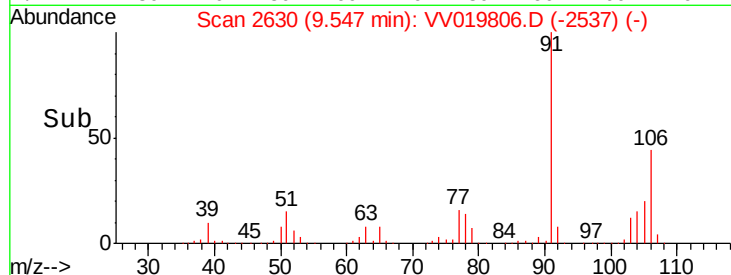
400000

200000

0

9.50 9.55 9.60

Time-->



#55

Styrene

Concen: 47.761 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019806.D

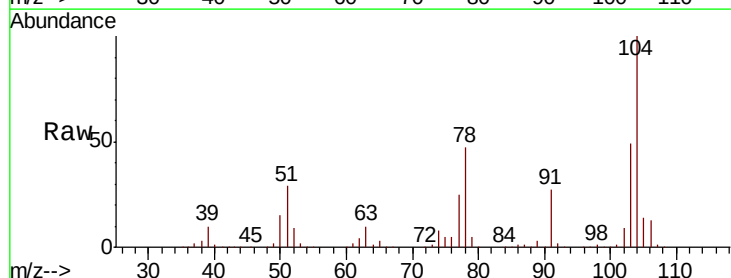
Acq: 23 Dec 2020 11:45

Tgt Ion:104 Resp: 697340

Ion Ratio Lower Upper

104 100

78 46.5 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

500000

400000

300000

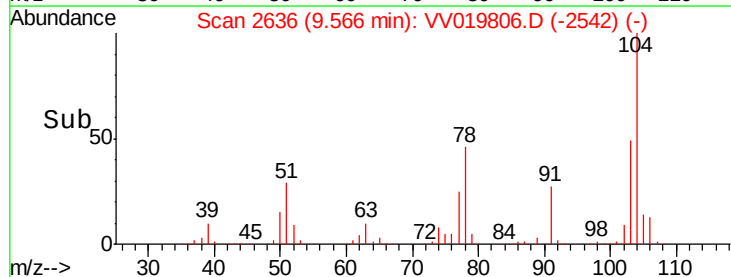
200000

100000

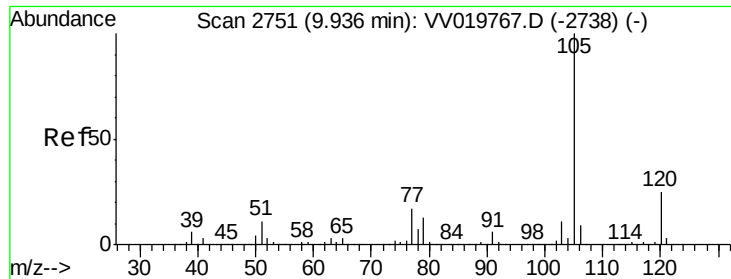
0

9.50 9.55 9.60 9.70

Time-->







#56

Isopropylbenzene

Concen: 47.908 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

VSTD05071

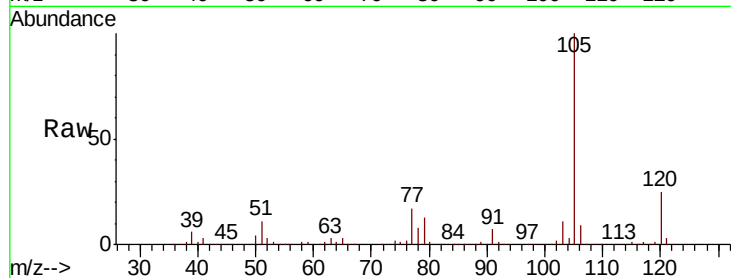
Tot Ion:105 Resp: 1069197

Ion Ratio Lower Upper

105 100

120 25.5 20.6 31.0

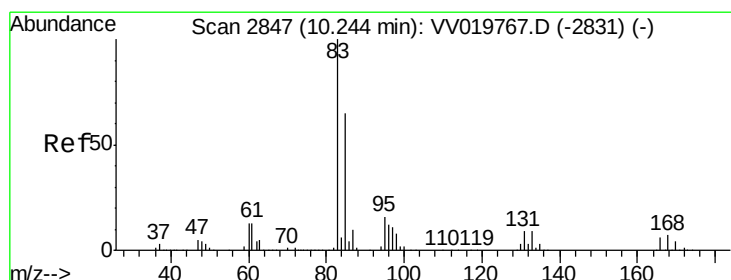
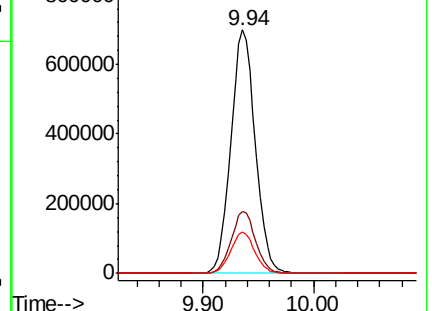
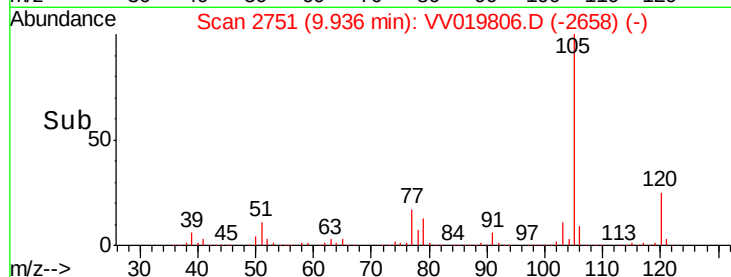
77 16.9 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.003 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

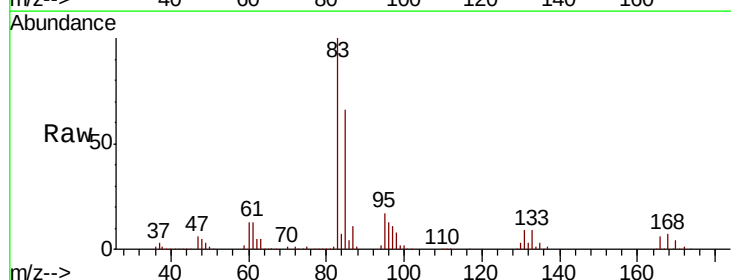
Tgt Ion: 83 Resp: 357118

Ion Ratio Lower Upper

83 100

85 66.0 44.9 83.5

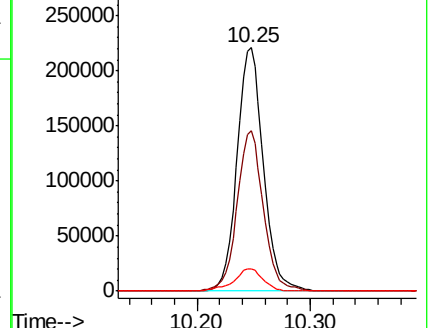
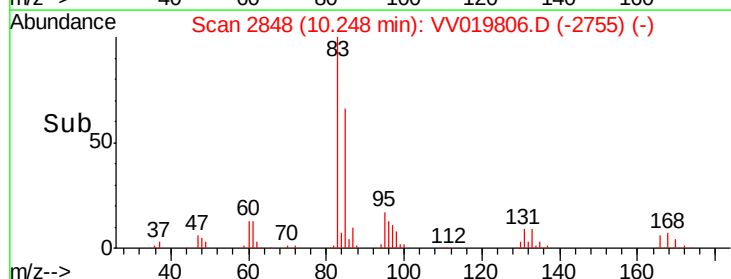
131 9.2 7.6 11.4

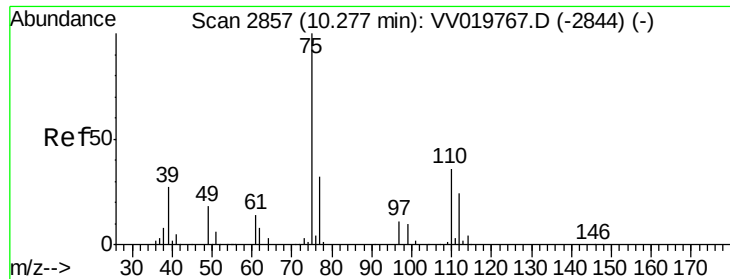


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.473 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

MSVOA\_V

ClientSampleId :

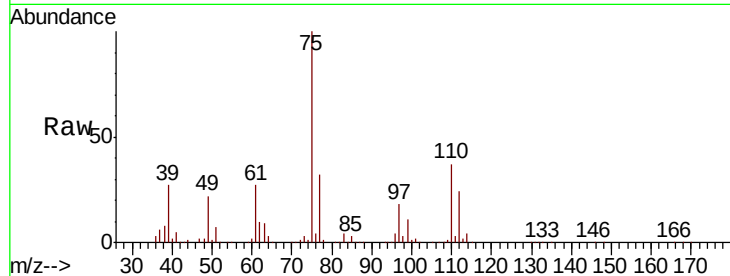
VSTD05071

Tot Ion: 75 Resp: 299965

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV019767.D (-2844) (-)

Ion 77.00 (76.70 to 77.70): VV019767.D (-2844) (-)

10.28

200000

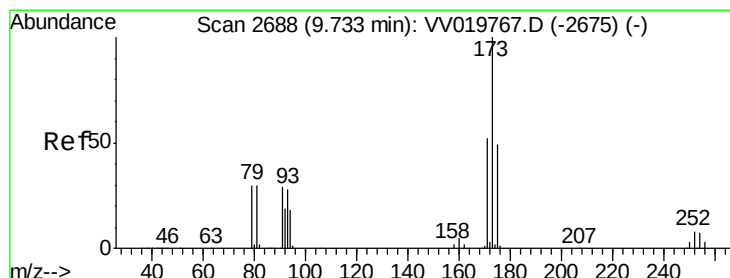
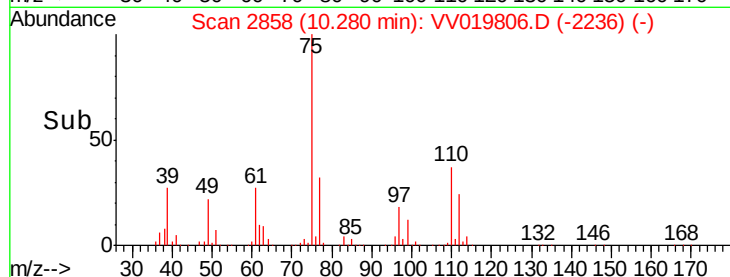
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 41.855 ug/L

RT: 9.74 min Scan# 2689

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

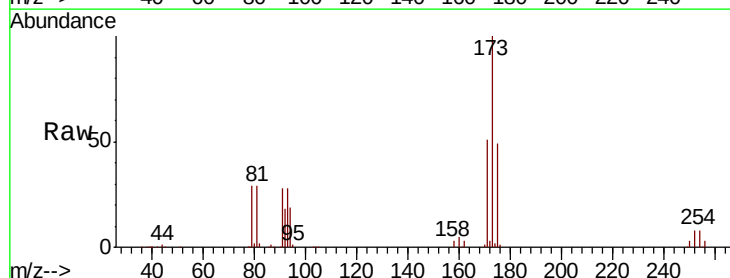
Tgt Ion: 173 Resp: 148094

Ion Ratio Lower Upper

173 100

175 48.9 38.4 57.6

254 8.0 6.6 10.0



Abundance Ion 173.00 (172.70 to 173.70): VV019767.D (-2675) (-)

Ion 175.00 (174.70 to 175.70): VV019767.D (-2675) (-)

Ion 254.00 (253.70 to 254.70): VV019767.D (-2675) (-)

9.74

120000

100000

80000

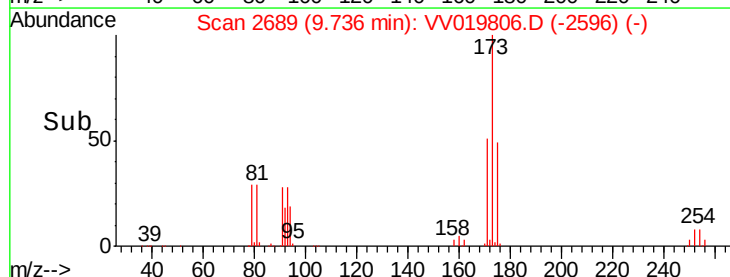
60000

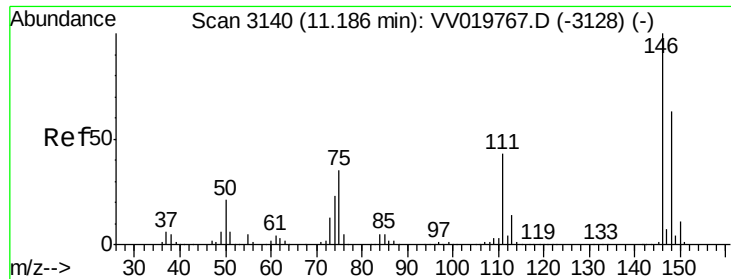
40000

20000

0

Time-->

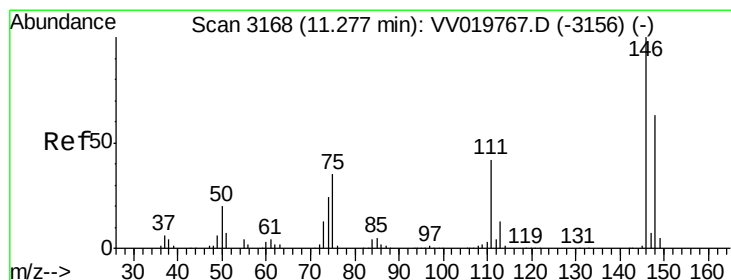
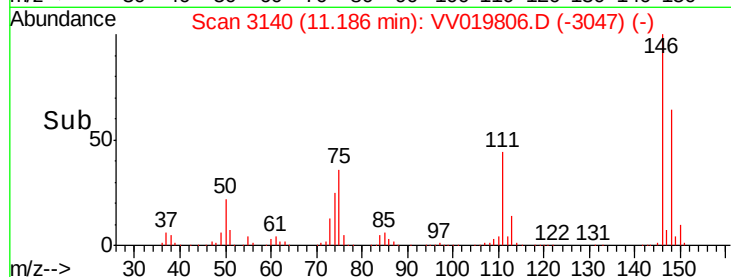
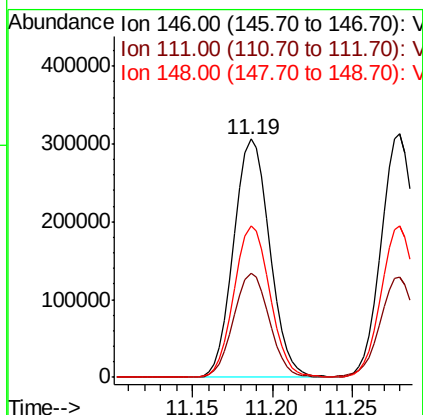
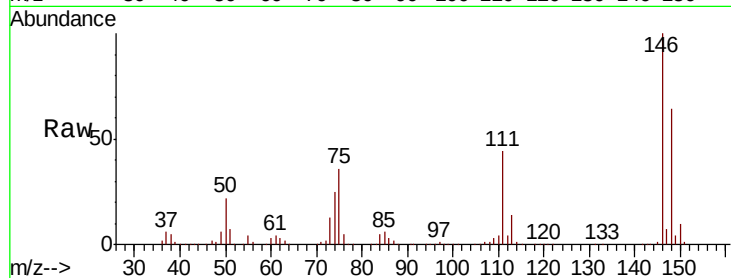




#62  
 1,3-Dichlorobenzene  
 Concen: 47.873 ug/L  
 RT: 11.19 min Scan# 3140  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

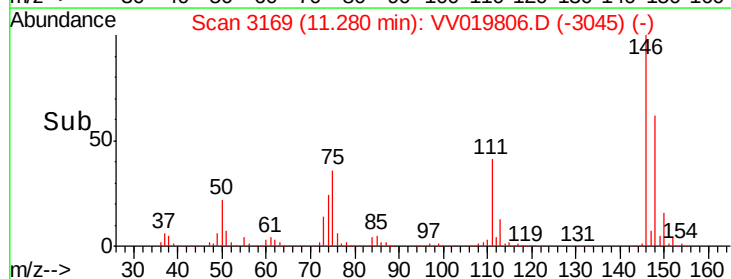
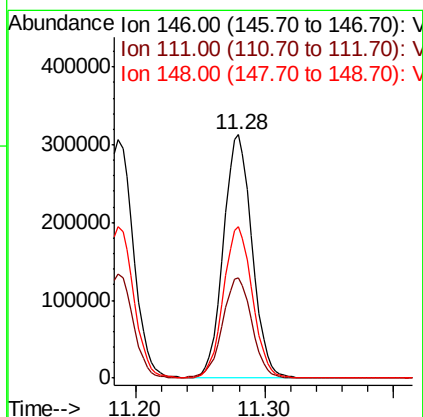
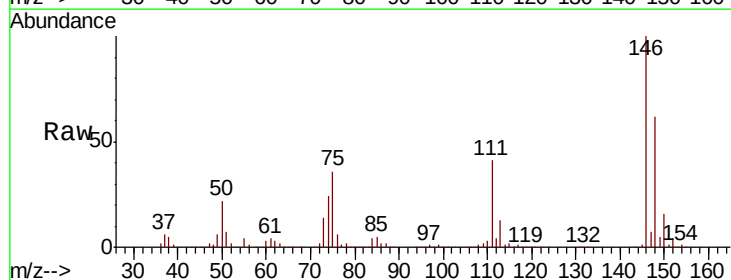
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

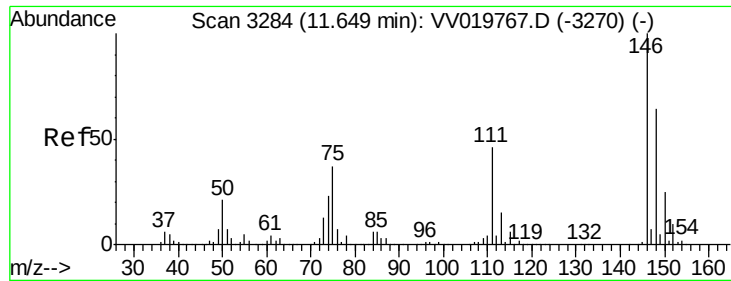
Tot Ion:146 Resp: 469678  
 Ion Ratio Lower Upper  
 146 100  
 111 43.7 30.7 57.1  
 148 63.7 45.3 84.1



#63  
 1,4-Dichlorobenzene  
 Concen: 48.445 ug/L  
 RT: 11.28 min Scan# 3169  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Tgt Ion:146 Resp: 481282  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 29.8 55.4  
 148 62.0 44.2 82.0

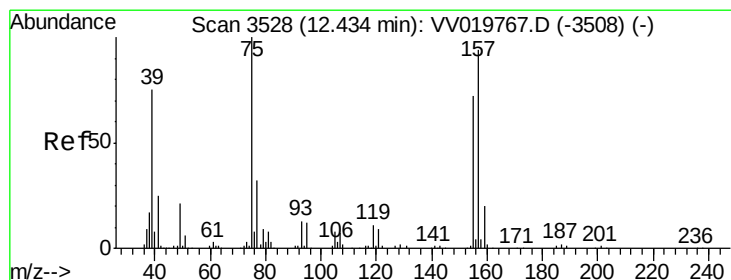
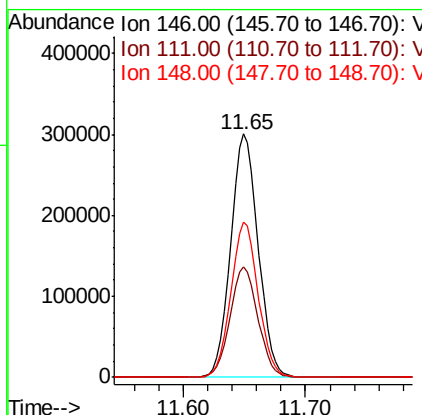
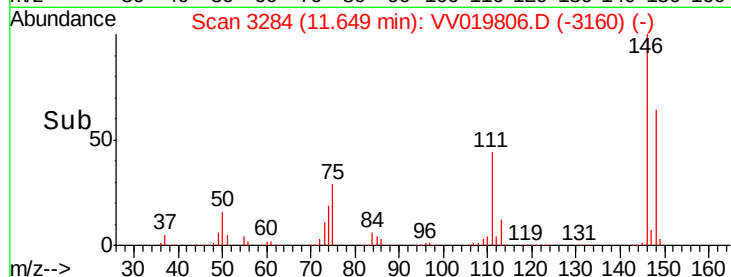
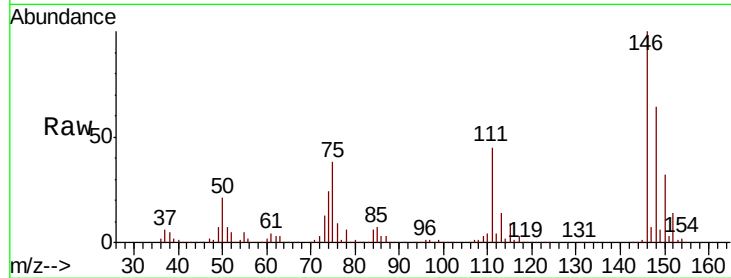




#65  
 1,2-Dichlorobenzene  
 Concen: 48.604 ug/L  
 RT: 11.65 min Scan# 3284  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

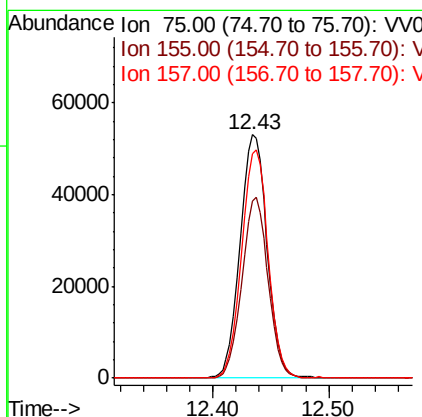
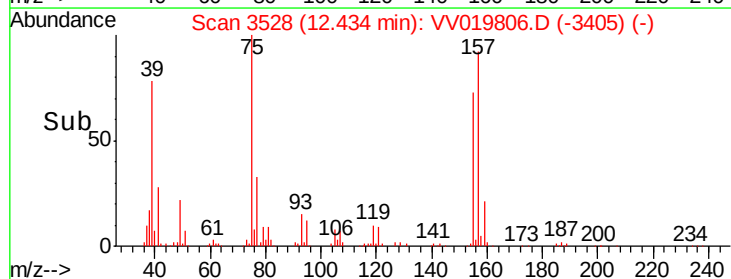
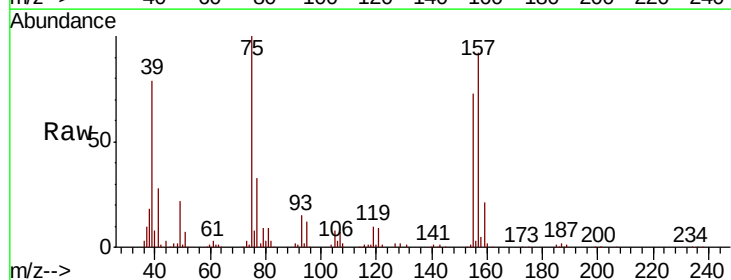
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

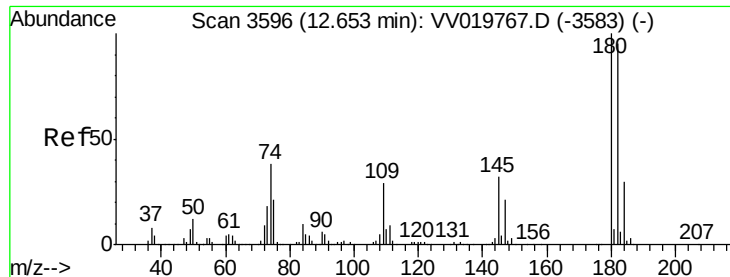
Tot Ion:146 Resp: 471187  
 Ion Ratio Lower Upper  
 146 100  
 111 45.3 36.6 55.0  
 148 63.8 50.7 76.1



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 42.529 ug/L  
 RT: 12.43 min Scan# 3528  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Tgt Ion: 75 Resp: 86062  
 Ion Ratio Lower Upper  
 75 100  
 155 72.8 61.1 91.7  
 157 92.2 78.7 118.1

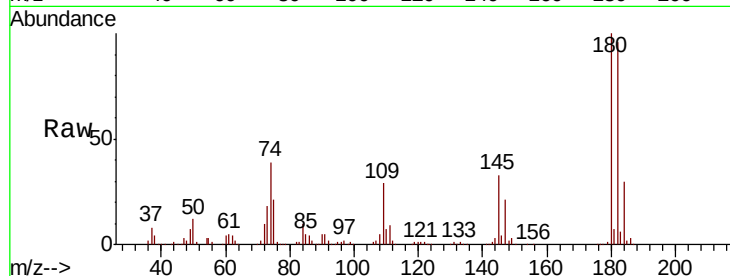




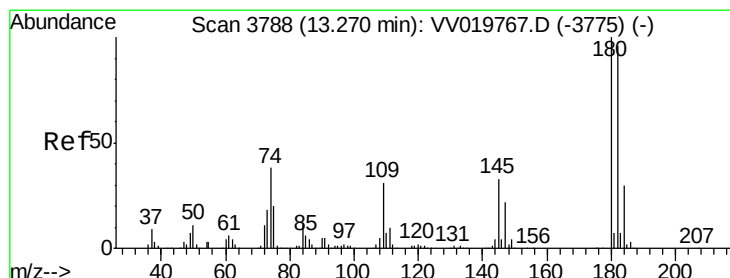
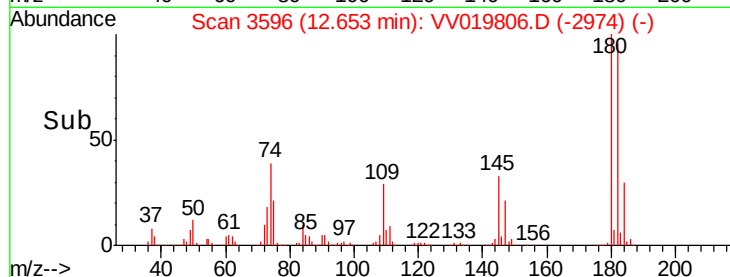
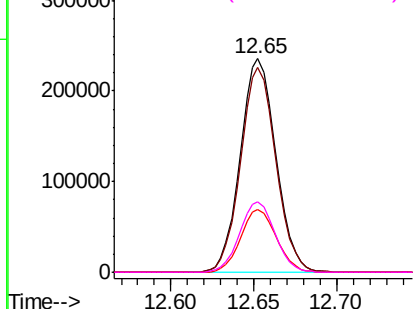
#67  
 1,3,5-Trichlorobenzene  
 Concen: 50.623 ug/L  
 RT: 12.65 min Scan# 3596  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05071

|             |       |            |
|-------------|-------|------------|
| Tot Ion:180 | Resp: | 350901     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.3  | 75.8 113.6 |
| 184         | 29.7  | 23.9 35.9  |
| 145         | 33.1  | 26.2 39.2  |

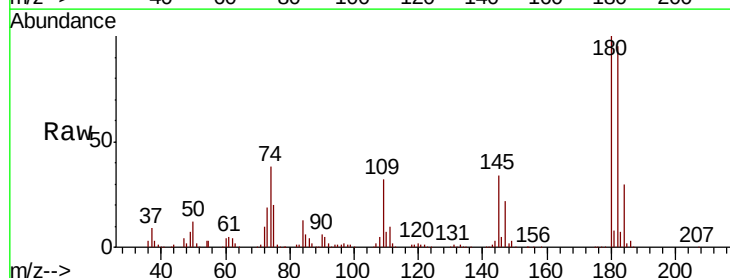


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

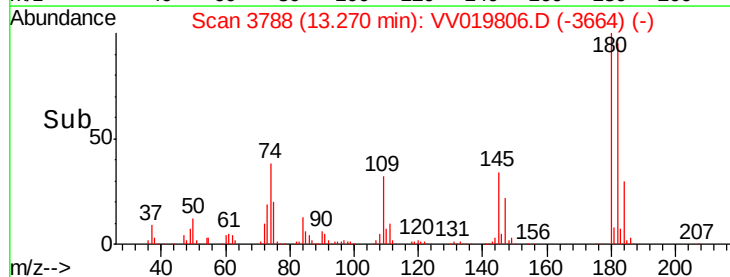
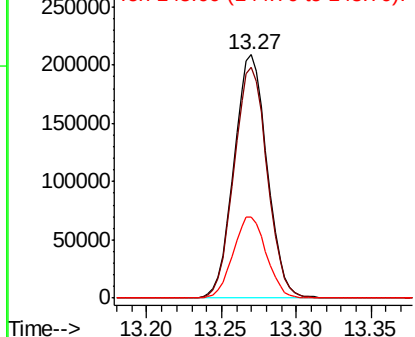


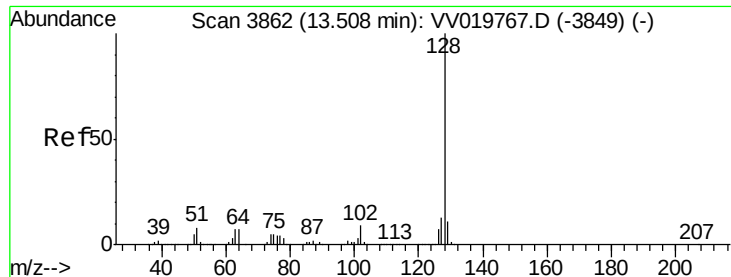
#68  
 1,2,4-trichlorobenzene  
 Concen: 49.649 ug/L  
 RT: 13.27 min Scan# 3788  
 Delta R.T. -0.00 min  
 Lab File: VV019806.D  
 Acq: 23 Dec 2020 11:45

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 321782     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.3  | 76.5 114.7 |
| 145         | 33.6  | 27.0 40.6  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 44.891 ug/L

RT: 13.51 min Scan# 3863

Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Instrument :

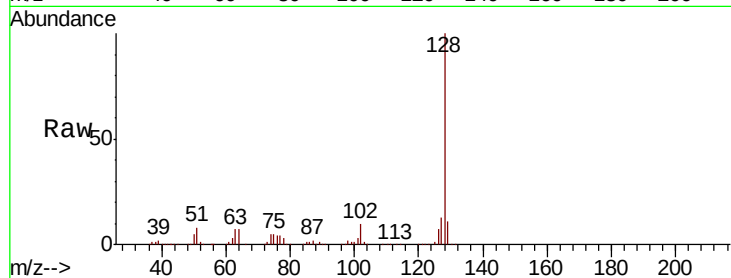
MSVOA\_V

ClientSampleId :

VSTD05071

Tot Ion:128 Resp: 1010247

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.0  | 10.3  | 15.5  |
| 129 | 10.9  | 8.6   | 12.8  |

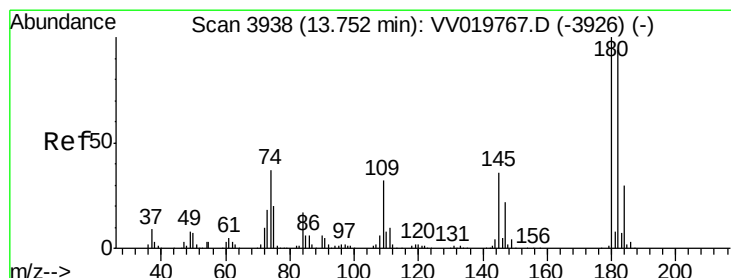
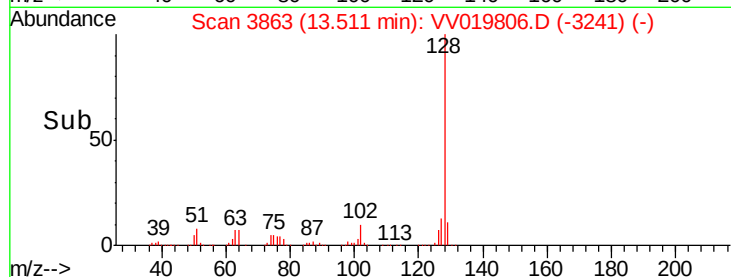
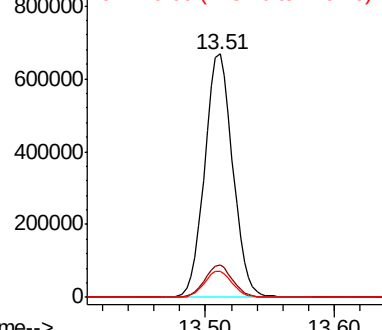


Abundance

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: 48.932 ug/L

RT: 13.75 min Scan# 3938

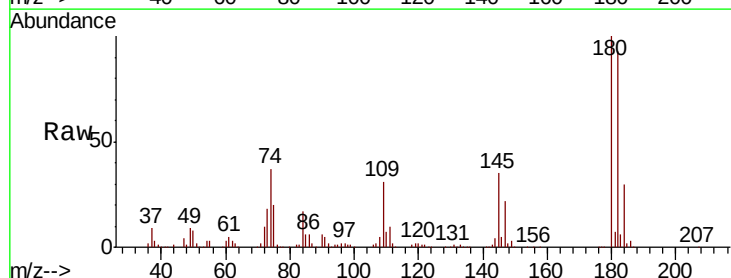
Delta R.T. -0.00 min

Lab File: VV019806.D

Acq: 23 Dec 2020 11:45

Tgt Ion:180 Resp: 309921

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 94.4  | 75.8  | 113.6 |
| 145 | 35.4  | 29.1  | 43.7  |



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

