

Data File : VV009489.D  
Acq On : 05 Mar 2019 15:49  
Operator : SY/MD  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

Quant Time: Mar 06 04:06:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 06 03:58:46 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 174674   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 166552   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 82456    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 59709    | 28.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 113.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 87297    | 28.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 114.84% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 147688   | 26.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 107.96% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 32339    | 45.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.26%  |
| 24) Chloroform-d               | 4.40   | 84    | 110718   | 26.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.44% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 62179    | 26.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.08% |
| 29) Benzene-d6                 | 5.10   | 84    | 222252   | 26.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 107.76% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 64807    | 26.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 106.48% |
| 37) Toluene-d8                 | 7.36   | 98    | 221573   | 27.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 110.20% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 31128    | 26.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.56% |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 24554    | 43.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.44%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 63525    | 24.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 78313    | 26.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 104.08% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 58392  | 29.033 ug/L | 98     |
| 3) Chloromethane               | 1.25 | 50  | 63171  | 29.471 ug/L | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 69222  | 29.293 ug/L | 99     |
| 6) Bromomethane                | 1.54 | 94  | 60817  | 20.673 ug/L | 98     |
| 8) Chloroethane                | 1.60 | 64  | 80595  | 30.691 ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 143790 | 29.663 ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 76959  | 28.353 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 65825  | 28.345 ug/L | 96     |
| 13) Acetone                    | 2.21 | 43  | 34253  | 47.019 ug/L | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 172079 | 29.234 ug/L | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 26430  | 22.404 ug/L | 96     |
| 16) Methylene chloride         | 2.53 | 84  | 58809  | 25.654 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 139837 | 26.890 ug/L | 97     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 61356  | 29.413 ug/L | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 105610 | 28.733 ug/L | 99     |
| 21) 2-Butanone                 | 4.03 | 43  | 41390  | 45.018 ug/L | 96     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 70441  | 29.912 ug/L | 93     |

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ClientSampleId :  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 06 03:58:46 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 30220    | 27.830 | ug/L  | 90       |
| 25) Chloroform                 | 4.42  | 83   | 117515   | 28.649 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 78147    | 27.431 | ug/L  | 100      |
| 30) Cyclohexane                | 4.72  | 56   | 99548    | 28.163 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane      | 4.66  | 97   | 106822   | 28.691 | ug/L  | 97       |
| 32) Carbon tetrachloride       | 4.87  | 117  | 88857    | 28.229 | ug/L  | 99       |
| 34) Benzene                    | 5.14  | 78   | 246683   | 28.664 | ug/L  | 100      |
| 35) Trichloroethene            | 5.96  | 95   | 70018    | 28.310 | ug/L  | 99       |
| 36) Methylcyclohexane          | 6.17  | 83   | 116438   | 28.900 | ug/L  | 98       |
| 40) 1,2-Dichloropropane        | 6.22  | 63   | 59652    | 26.883 | ug/L  | 100      |
| 41) Bromodichloromethane       | 6.55  | 83   | 86940    | 29.027 | ug/L  | 96       |
| 42) cis-1,3-Dichloropropene    | 7.07  | 75   | 98592    | 28.619 | ug/L  | 95       |
| 43) 4-Methyl-2-pentanone       | 7.28  | 43   | 84824    | 48.493 | ug/L  | 100      |
| 44) Toluene                    | 7.43  | 91   | 282168   | 29.006 | ug/L  | 98       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 85797    | 28.517 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 51281    | 27.817 | ug/L  | 96       |
| 47) Tetrachloroethene          | 8.02  | 164  | 54479    | 29.041 | ug/L  | 96       |
| 49) 2-Hexanone                 | 8.19  | 43   | 65320    | 49.383 | ug/L  | 98       |
| 50) Dibromochloromethane       | 8.29  | 129  | 62536    | 28.019 | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 51598    | 27.089 | ug/L  | 97       |
| 52) Chlorobenzene              | 8.93  | 112  | 184220   | 28.570 | ug/L  | 98       |
| 53) Ethylbenzene               | 9.05  | 91   | 319326   | 28.686 | ug/L  | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 123684   | 29.356 | ug/L  | 94       |
| 55) o-xylene                   | 9.59  | 106  | 119037   | 29.300 | ug/L  | 94       |
| 56) Styrene                    | 9.60  | 104  | 198209   | 29.655 | ug/L  | 100      |
| 57) Isopropylbenzene           | 9.97  | 105  | 326309   | 29.120 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 67735    | 26.021 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 47624    | 25.379 | ug/L  | 98       |
| 62) Bromoform                  | 9.77  | 173  | 35386    | 26.446 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 146459   | 28.436 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 145308   | 27.608 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 135485   | 28.207 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 11399    | 23.694 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 106872   | 28.928 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 85673    | 28.964 | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 171588   | 27.541 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 77577    | 28.509 | ug/L  | 98       |

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

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```
ALS Vial      : 1      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD02566

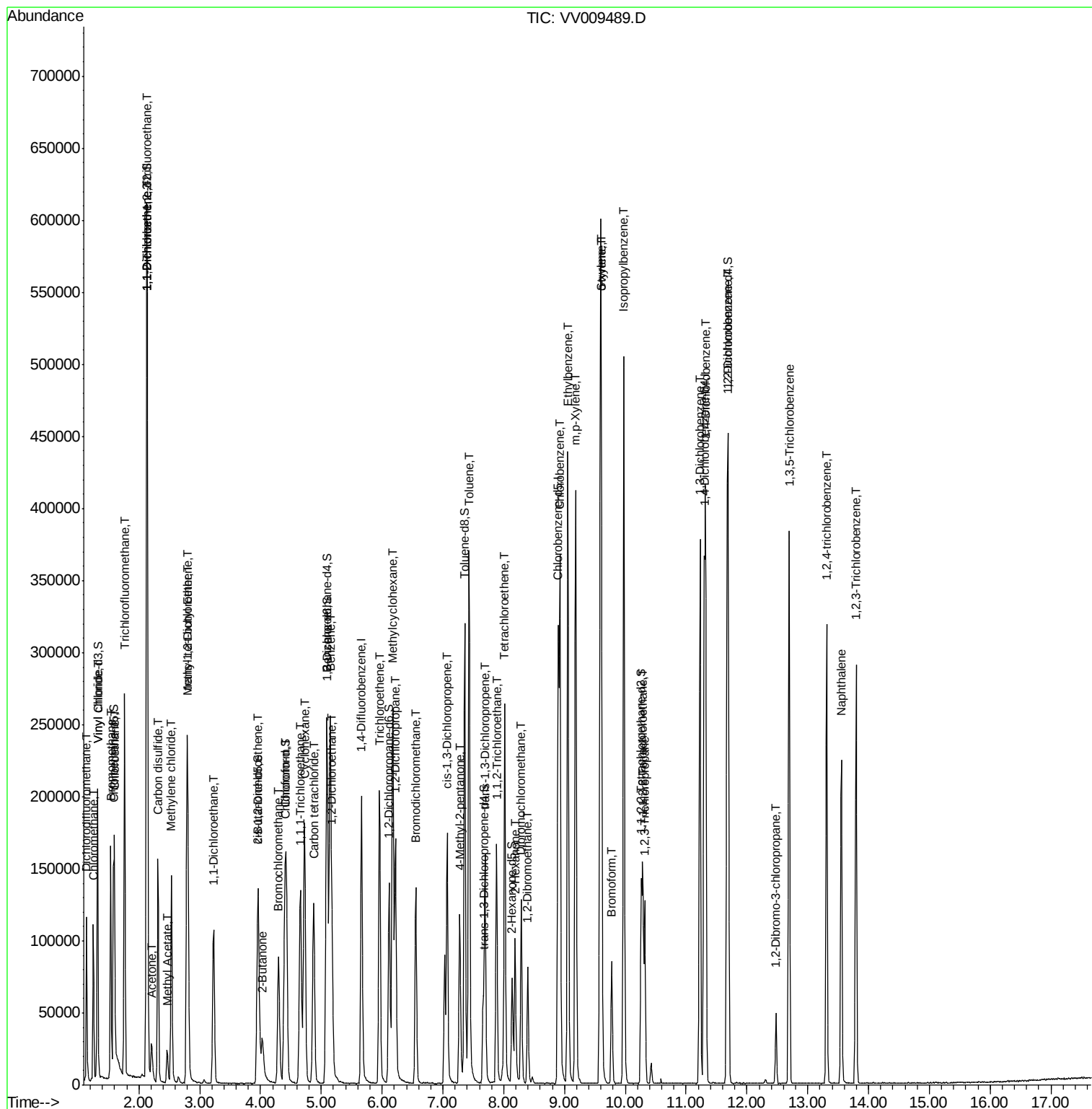
Quant Time: Mar 06 04:06:12 2019

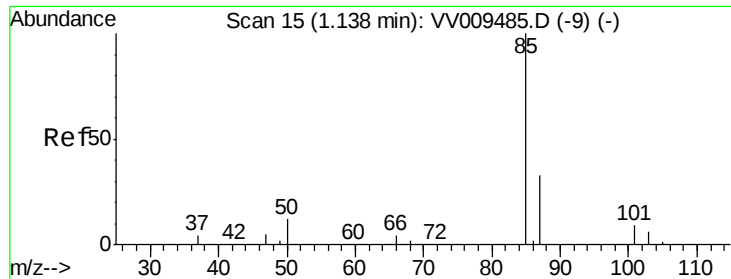
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\S0M2VLM030519S.M

Quant Title : VOC Analysis

QLast Update : Wed Mar 06 03:58:46 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 29.033 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

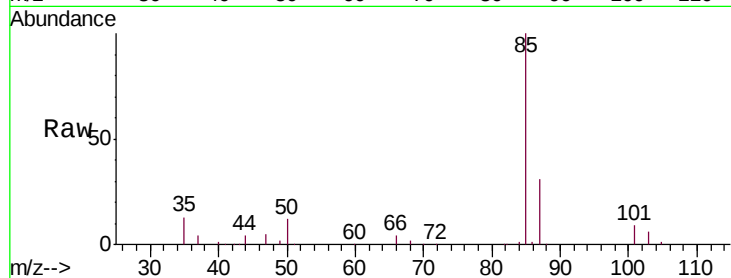
VSTD02566

Tgt Ion: 85 Resp: 58392

Ion Ratio Lower Upper

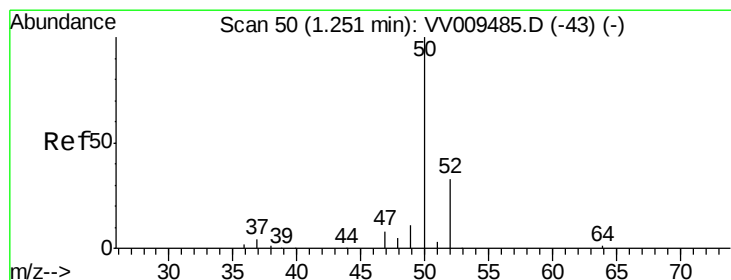
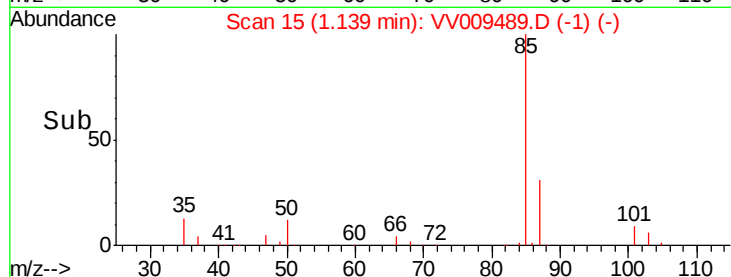
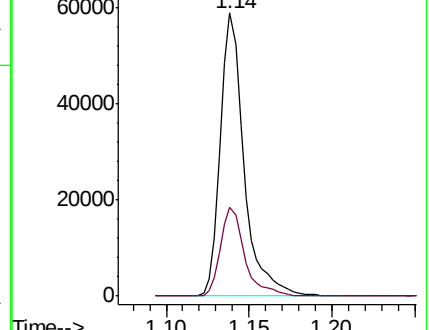
85 100

87 32.1 23.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VV009485.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV009485.D (-9) (-)



#3

Chloromethane

Concen: 29.471 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009489.D

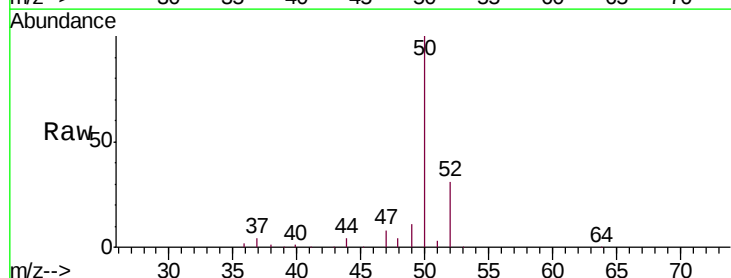
Acq: 05 Mar 2019 15:49

Tgt Ion: 50 Resp: 63171

Ion Ratio Lower Upper

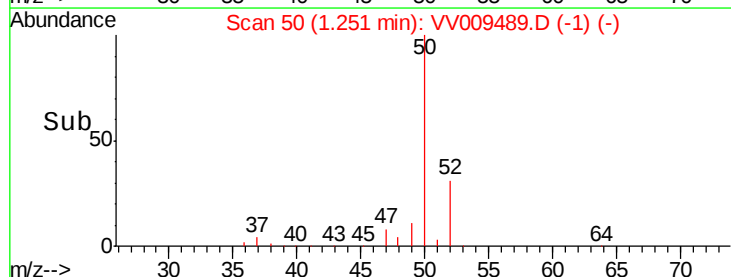
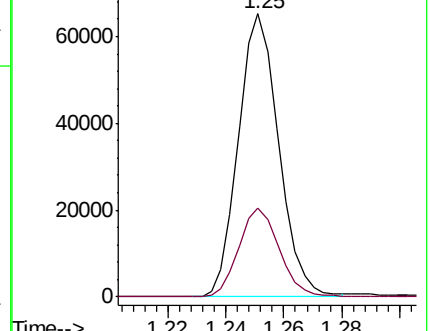
50 100

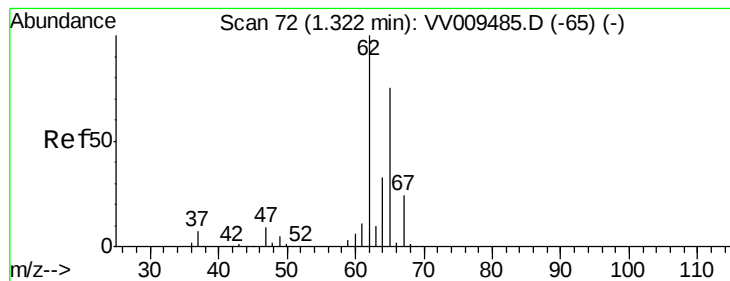
52 31.2 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV009485.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009485.D (-43) (-)





#5

Vinyl chloride

Concen: 29.293 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

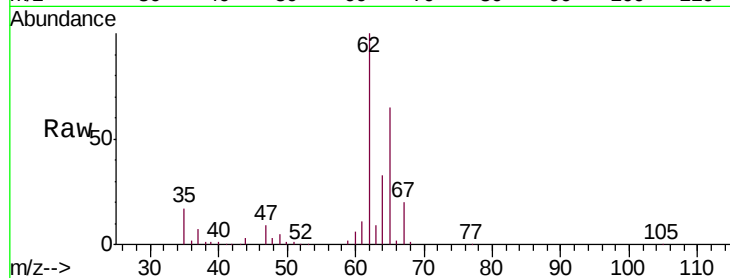
VSTD02566

Tgt Ion: 62 Resp: 69222

Ion Ratio Lower Upper

62 100

64 33.3 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV009489.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009489.D (-65) (-)

1.32

60000

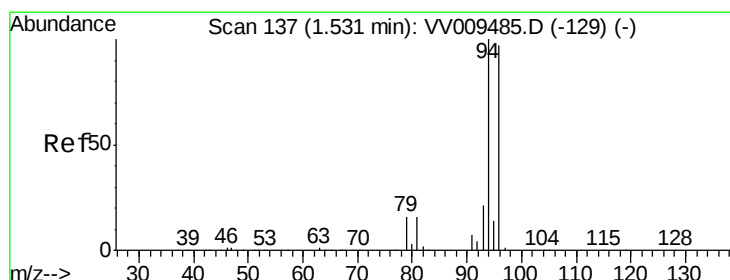
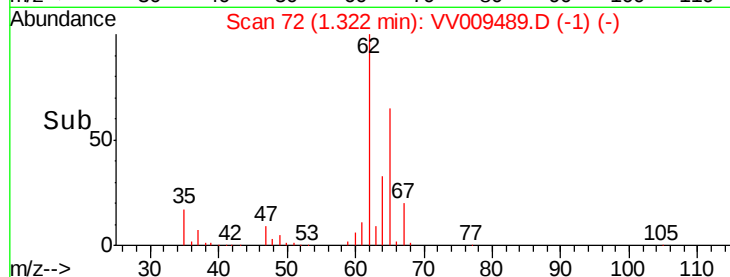
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 20.673 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.01 min

Lab File: VV009489.D

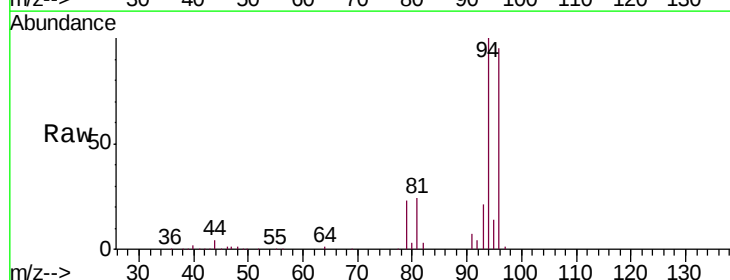
Acq: 05 Mar 2019 15:49

Tgt Ion: 94 Resp: 60817

Ion Ratio Lower Upper

94 100

96 93.6 9.5 181.4



Abundance Ion 94.00 (93.70 to 94.70): VV009489.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV009489.D (-129) (-)

1.54

60000

50000

40000

30000

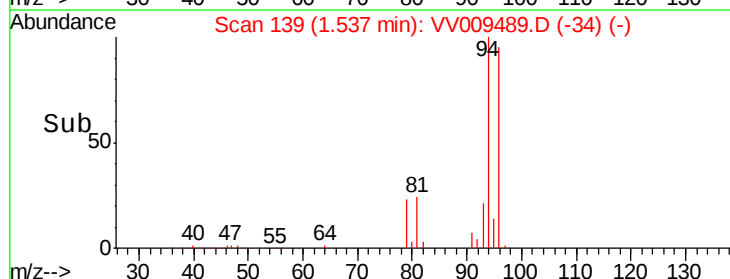
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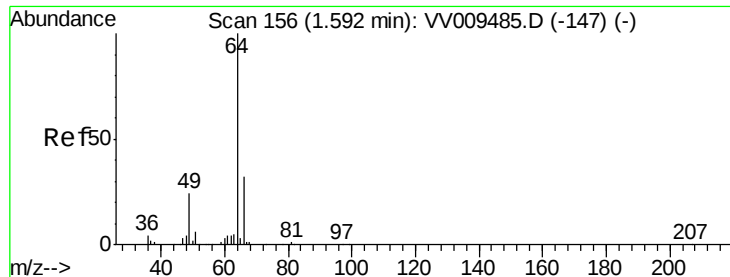
10000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 30.691 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.01 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

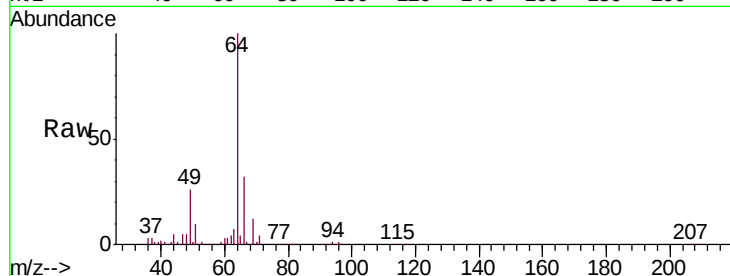
VSTD02566

Tgt Ion: 64 Resp: 80595

Ion Ratio Lower Upper

64 100

66 31.8 21.8 40.6



Abundance Ion 64.00 (63.70 to 64.70): VV009485.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV009485.D (-147) (-)

1.60

80000

60000

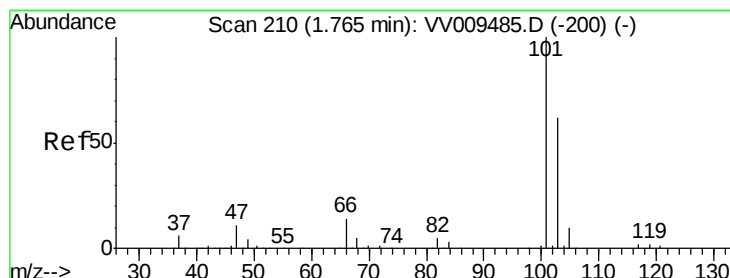
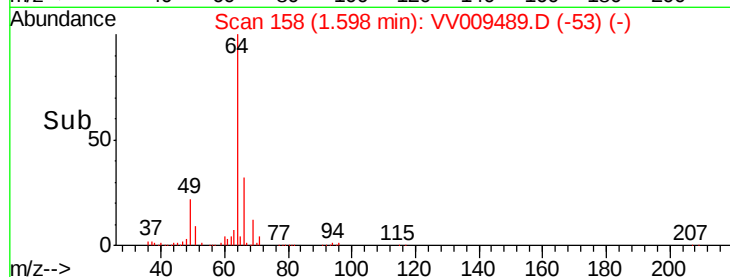
40000

20000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 29.663 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009489.D

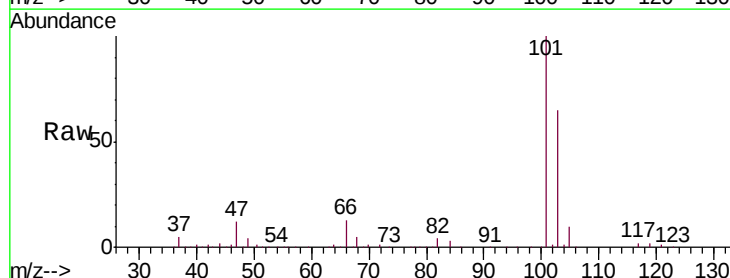
Acq: 05 Mar 2019 15:49

Tgt Ion: 101 Resp: 143790

Ion Ratio Lower Upper

101 100

103 65.1 44.7 83.1



Abundance Ion 101.00 (100.70 to 101.70): VV009485.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV009485.D (-200) (-)

1.77

120000

100000

80000

60000

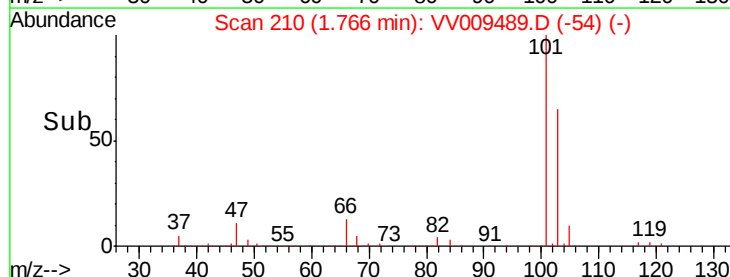
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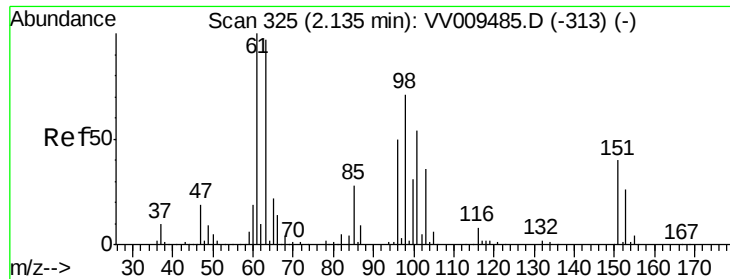
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Time-->

1.70 1.75 1.80 1.85





#11

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

Concen: 28.353 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

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ClientSampleId :

VSTD02566

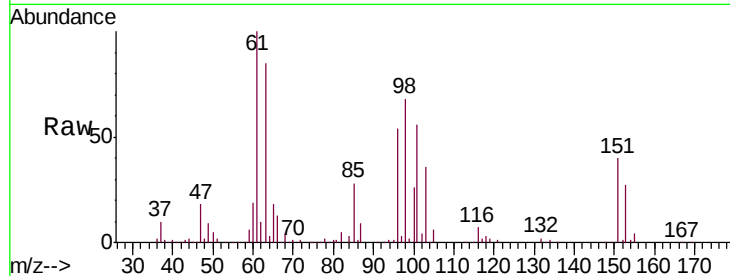
Tgt Ion:101 Resp: 76959

Ion Ratio Lower Upper

101 100

85 49.5 40.1 60.1

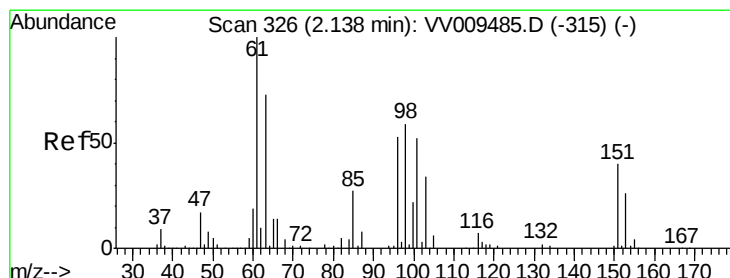
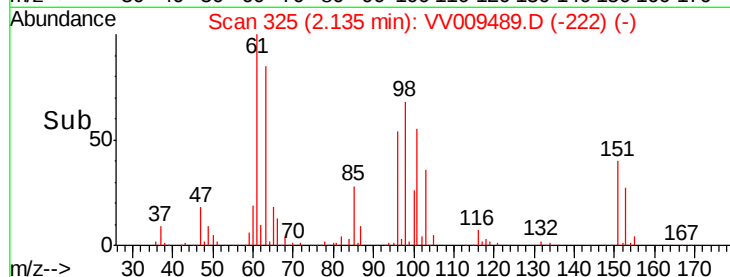
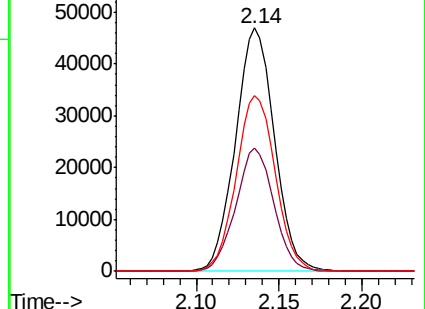
151 72.6 55.9 83.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 28.345 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

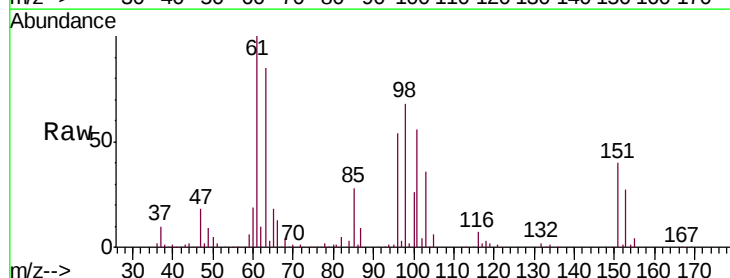
Tgt Ion: 96 Resp: 65825

Ion Ratio Lower Upper

96 100

61 185.2 136.9 254.3

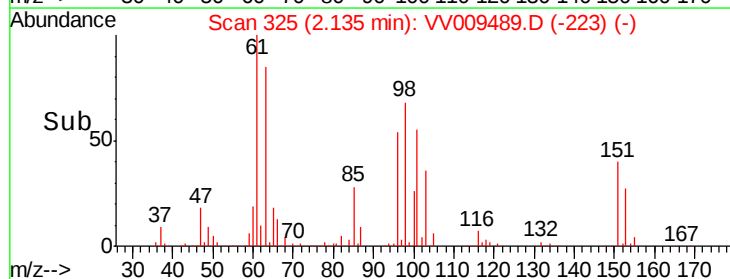
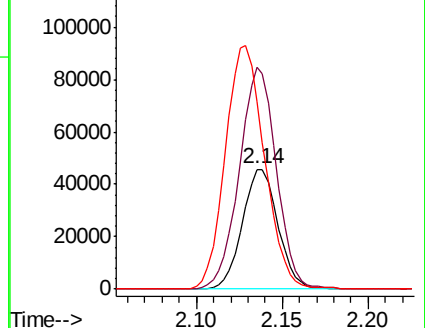
63 156.6 108.7 201.9

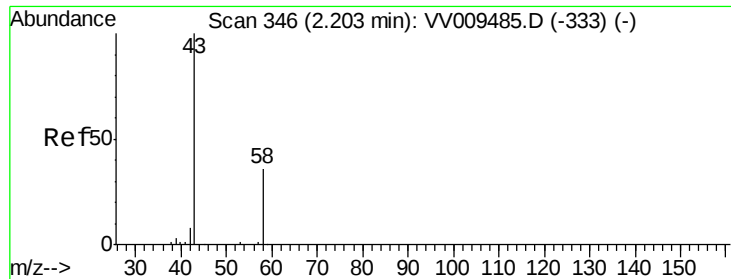


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 47.019 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.01 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

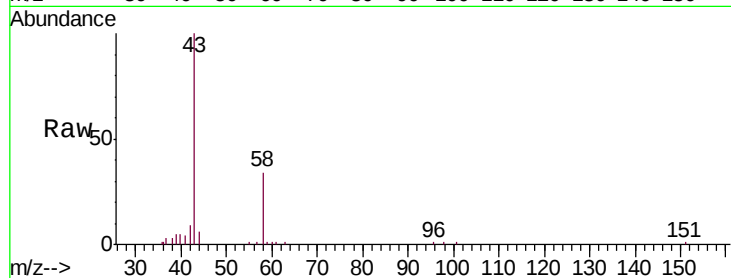
VSTD02566

Tgt Ion: 43 Resp: 34253

Ion Ratio Lower Upper

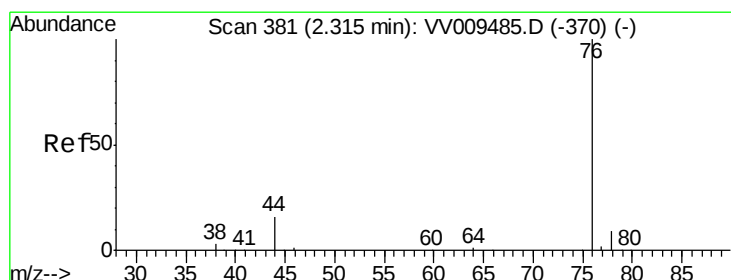
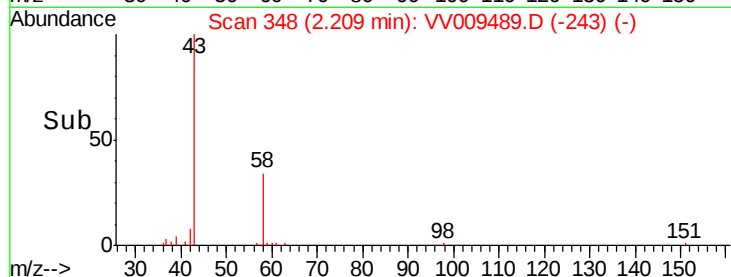
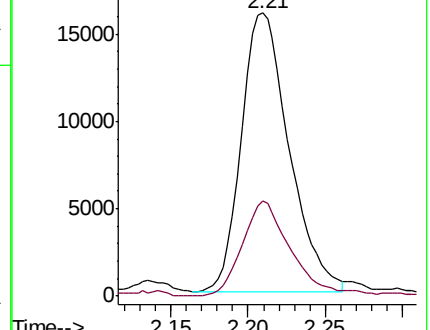
43 100

58 33.9 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VV009485.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV009485.D (-333) (-)



#14

Carbon disulfide

Concen: 29.234 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009489.D

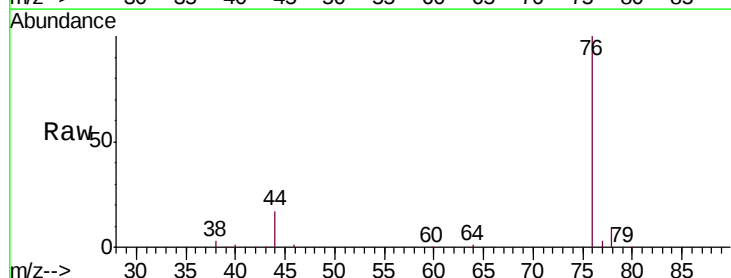
Acq: 05 Mar 2019 15:49

Tgt Ion: 76 Resp: 172079

Ion Ratio Lower Upper

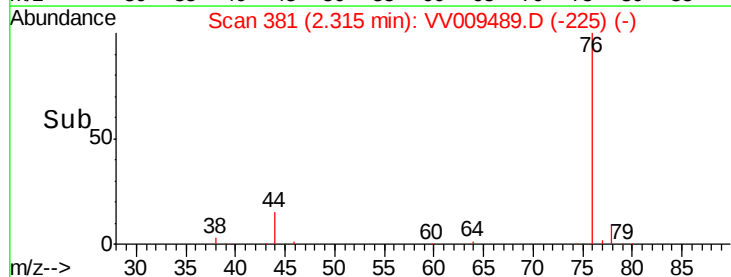
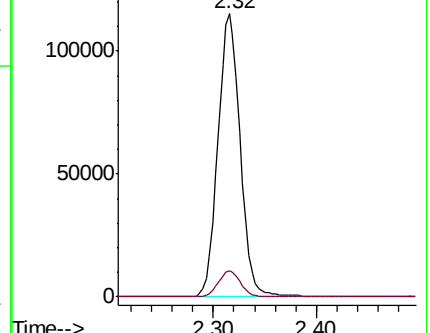
76 100

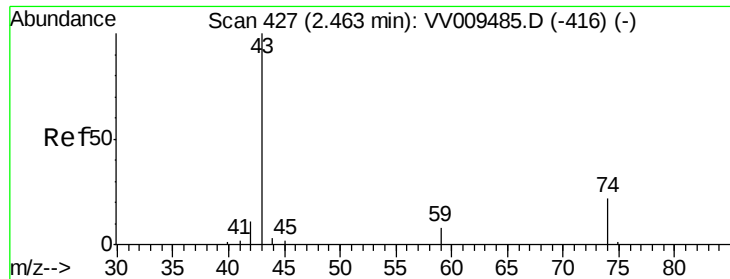
78 9.1 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009485.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV009485.D (-370) (-)





#15

Methyl Acetate

Concen: 22.404 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

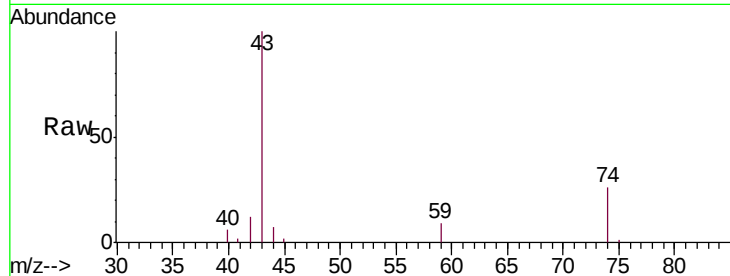
VSTD02566

Tgt Ion: 43 Resp: 26430

Ion Ratio Lower Upper

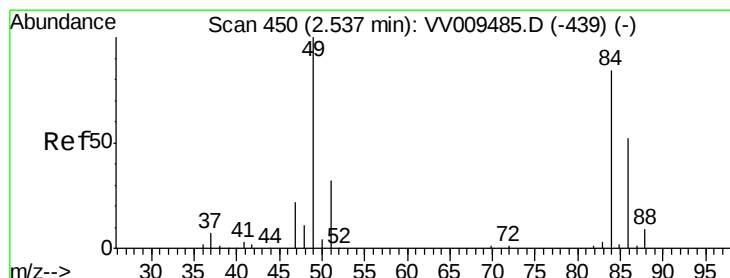
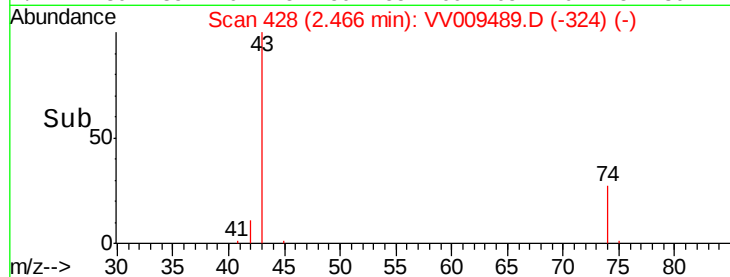
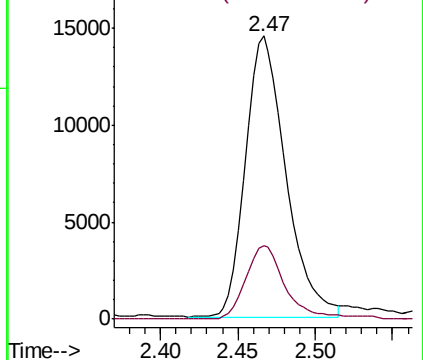
43 100

74 25.2 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VV009485.D (-416) (-)

Ion 74.00 (73.70 to 74.70): VV009485.D (-416) (-)



#16

Methylene chloride

Concen: 25.654 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

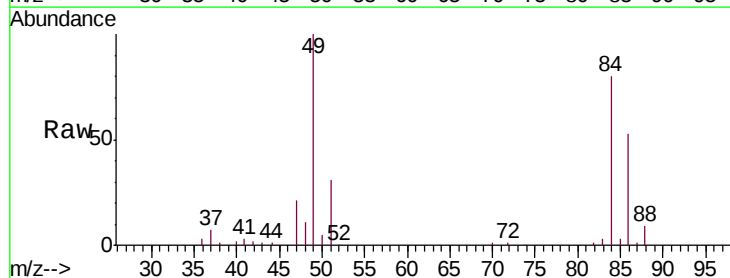
Tgt Ion: 84 Resp: 58809

Ion Ratio Lower Upper

84 100

49 125.3 84.6 157.0

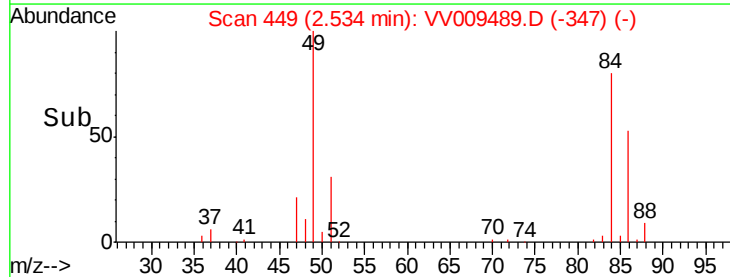
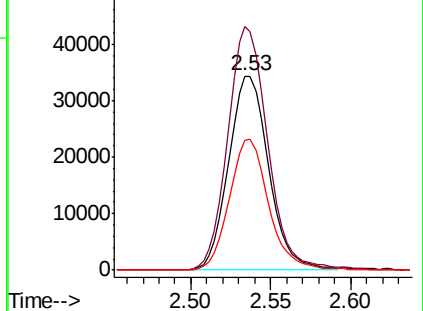
86 66.8 46.1 85.7

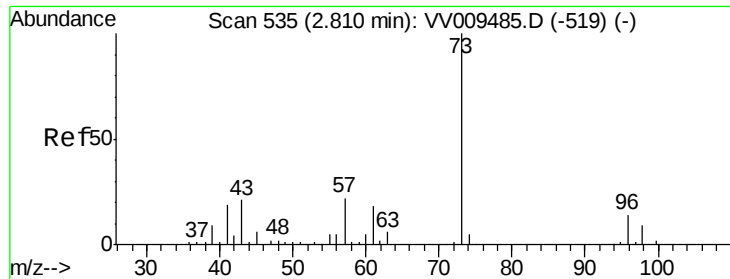


Abundance Ion 84.00 (83.70 to 84.70): VV009485.D (-439) (-)

Ion 49.00 (48.70 to 49.70): VV009485.D (-439) (-)

Ion 86.00 (85.70 to 86.70): VV009485.D (-439) (-)

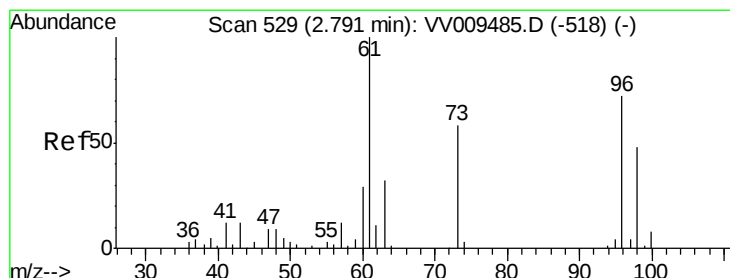
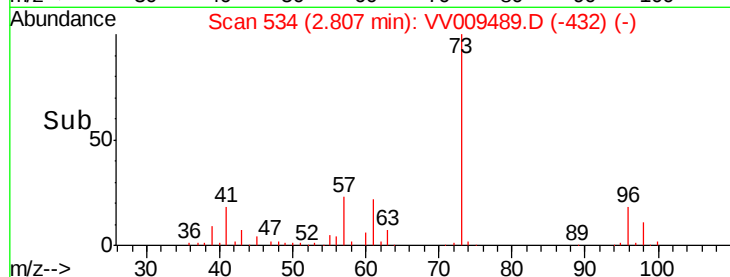
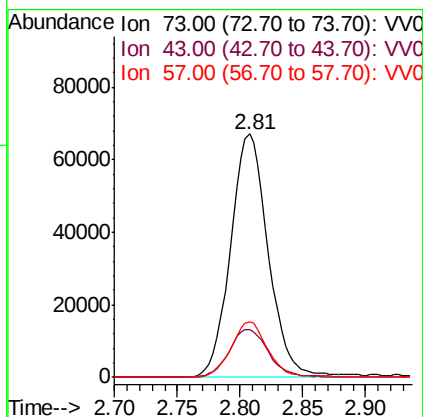
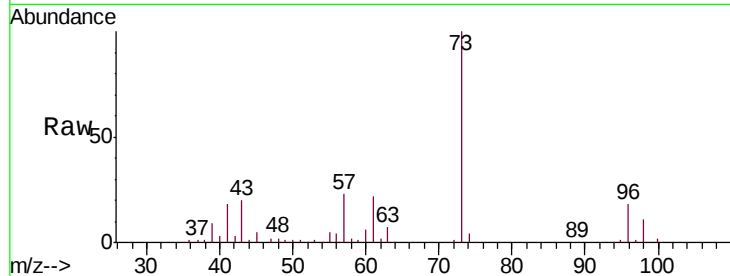




#17  
Methyl tert-butyl Ether  
Concen: 26.890 ug/L  
RT: 2.81 min Scan# 534  
Delta R.T. -0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

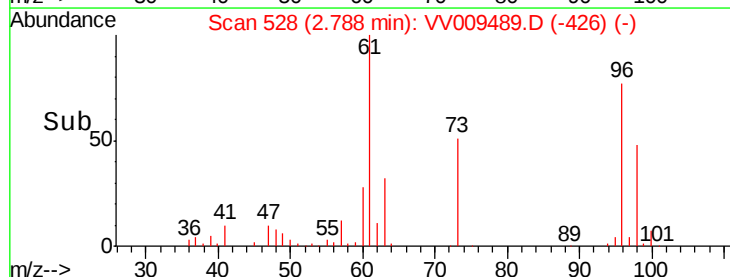
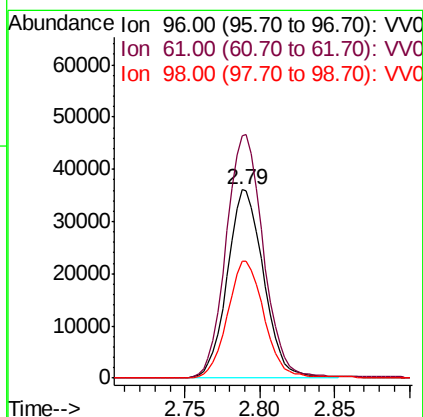
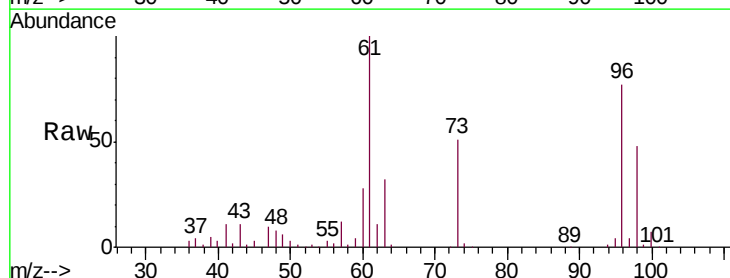
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

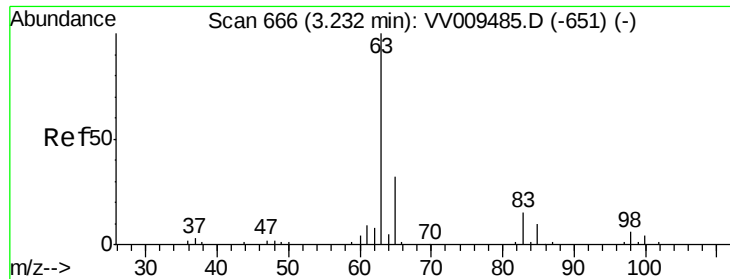
Tgt Ion: 73 Resp: 139837  
Ion Ratio Lower Upper  
73 100  
43 20.5 15.0 22.4  
57 21.9 17.0 25.4



#18  
trans-1,2-Dichloroethene  
Concen: 29.413 ug/L  
RT: 2.79 min Scan# 528  
Delta R.T. -0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion: 96 Resp: 61356  
Ion Ratio Lower Upper  
96 100  
61 129.1 95.6 177.6  
98 62.0 44.0 81.6

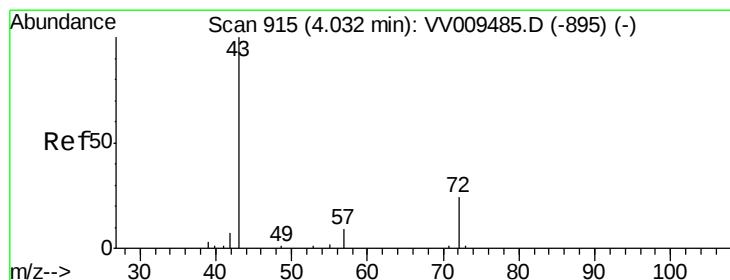
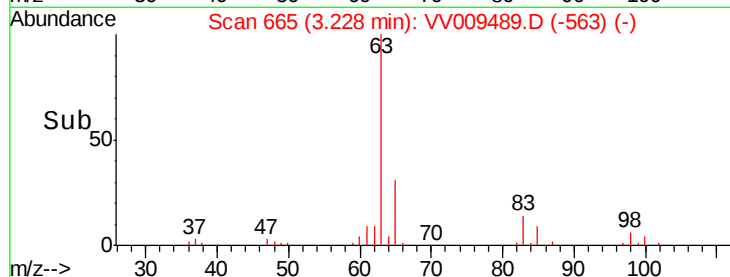
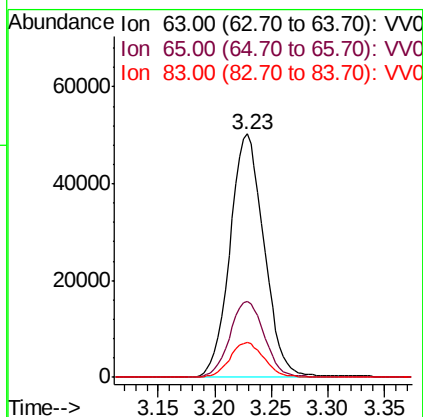
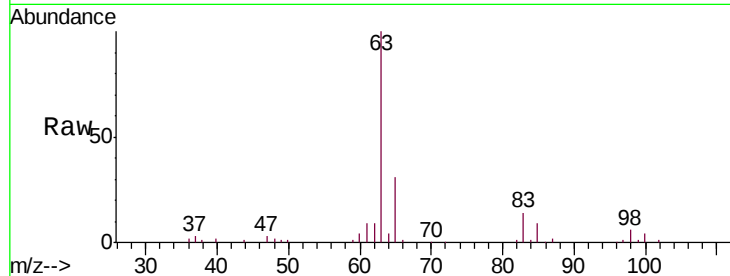




#19  
 1,1-Dichloroethane  
 Concen: 28.733 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

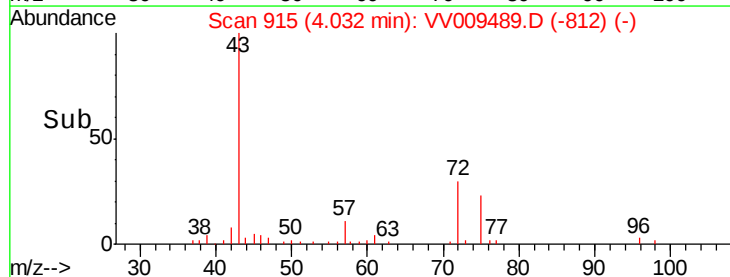
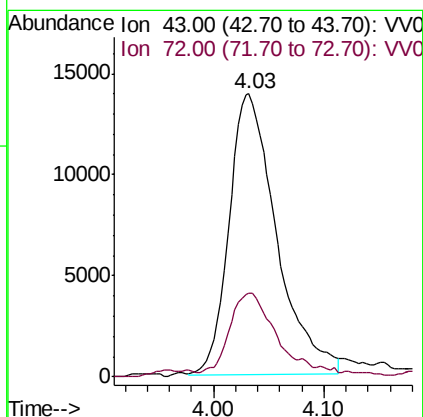
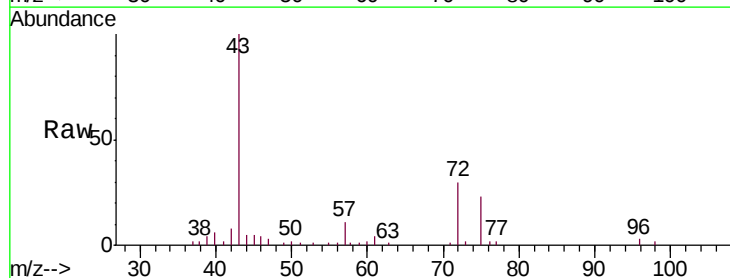
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

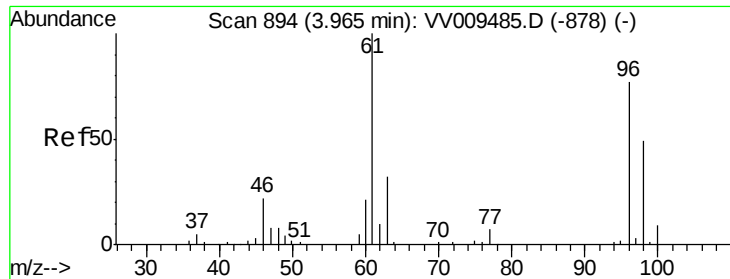
Tgt Ion: 63 Resp: 105610  
 Ion Ratio Lower Upper  
 63 100  
 65 31.0 22.1 41.1  
 83 14.2 10.2 19.0



#21  
 2-Butanone  
 Concen: 45.018 ug/L  
 RT: 4.03 min Scan# 915  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion: 43 Resp: 41390  
 Ion Ratio Lower Upper  
 43 100  
 72 25.0 13.7 41.0



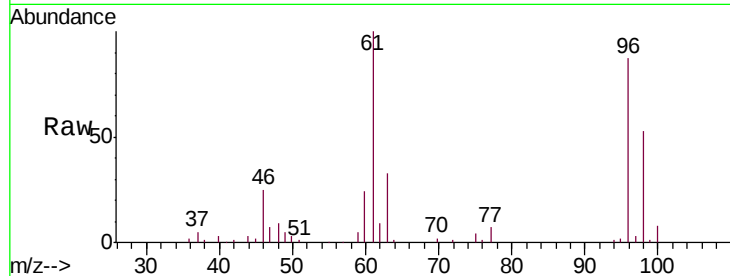


#22

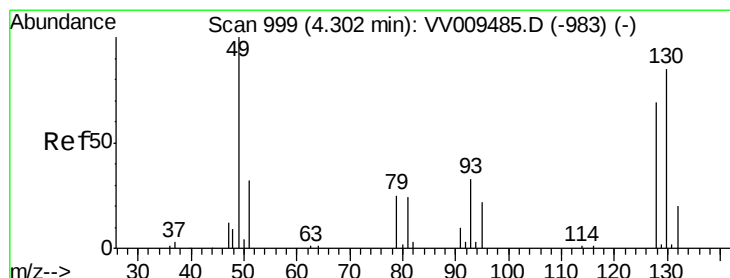
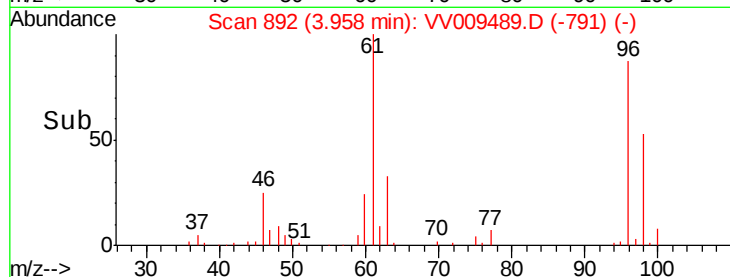
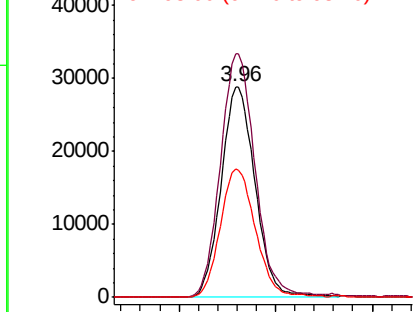
cis-1,2-Dichloroethene  
 Concen: 29.912 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. -0.01 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

Tgt Ion: 96 Resp: 70441  
 Ion Ratio Lower Upper  
 96 100  
 61 115.4 87.2 161.9  
 98 60.7 44.6 82.8



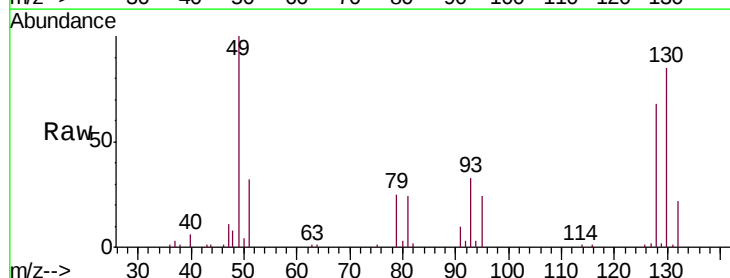
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 98.00 (97.70 to 98.70): VV0



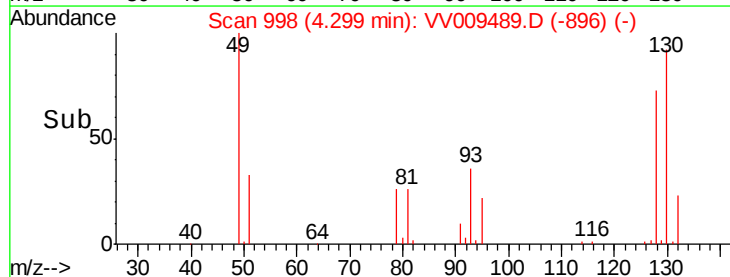
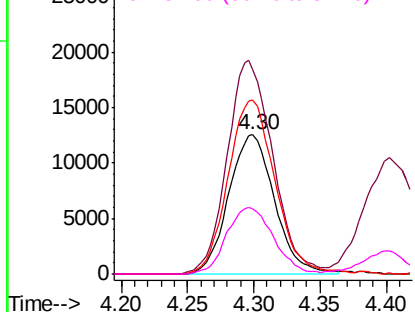
#23

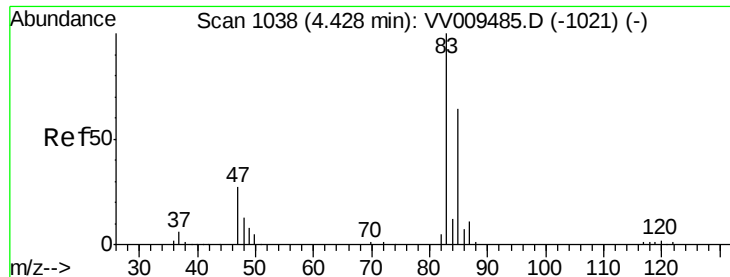
Bromochloromethane  
 Concen: 27.830 ug/L  
 RT: 4.30 min Scan# 998  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion: 128 Resp: 30220  
 Ion Ratio Lower Upper  
 128 100  
 49 147.2 115.5 214.5  
 130 125.1 92.6 172.0  
 51 47.0 43.4 65.2



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 49.00 (48.70 to 49.70): VV0  
 Ion 130.00 (129.70 to 130.70): V  
 Ion 51.00 (50.70 to 51.70): VV0

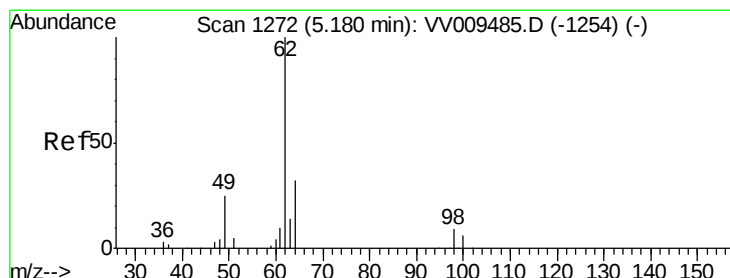
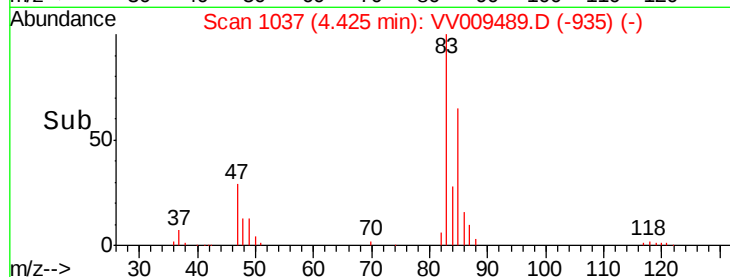
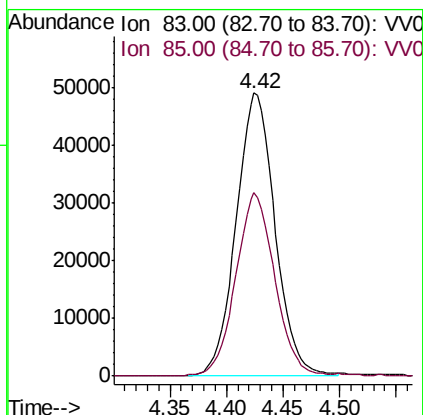
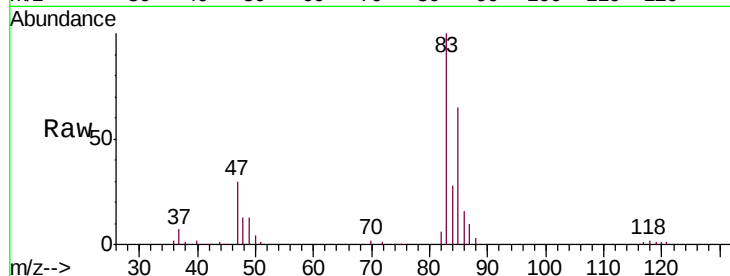




#25  
Chloroform  
Concen: 28.649 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

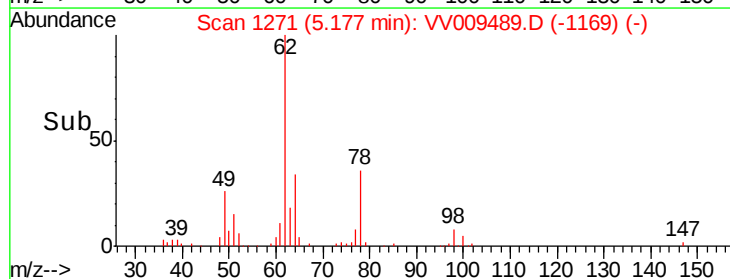
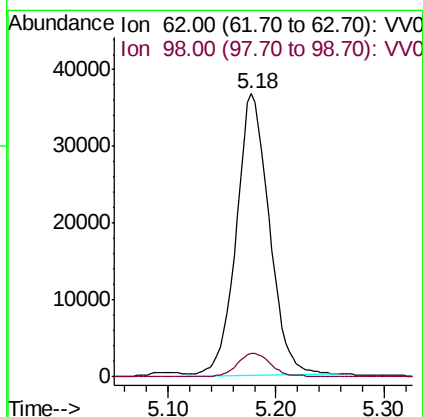
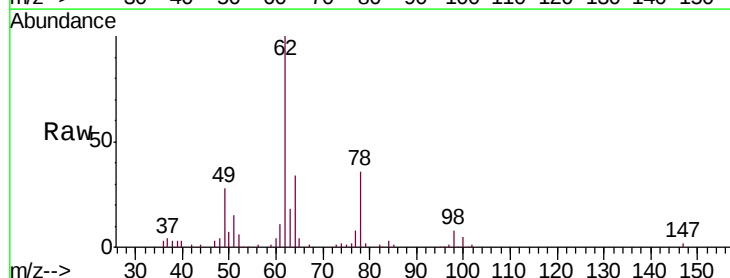
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

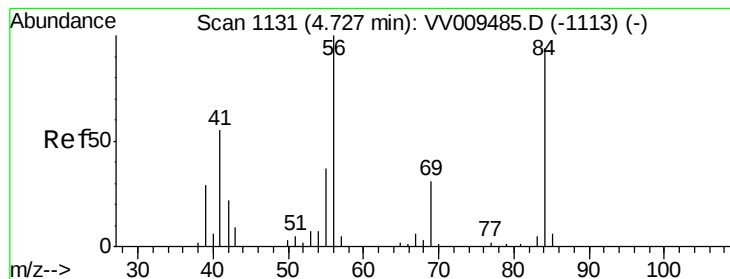
Tgt Ion: 83 Resp: 117515  
Ion Ratio Lower Upper  
83 100  
85 64.9 45.4 84.2



#27  
1,2-Dichloroethane  
Concen: 27.431 ug/L  
RT: 5.18 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion: 62 Resp: 78147  
Ion Ratio Lower Upper  
62 100  
98 8.4 6.6 10.0





#30

Cyclohexane

Concen: 28.163 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02566

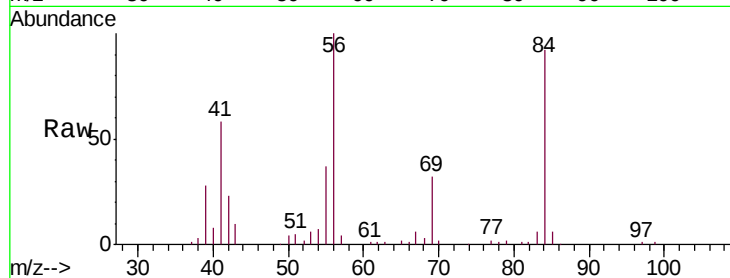
Tgt Ion: 56 Resp: 99548

Ion Ratio Lower Upper

56 100

69 32.2 24.9 37.3

84 91.9 71.9 107.9

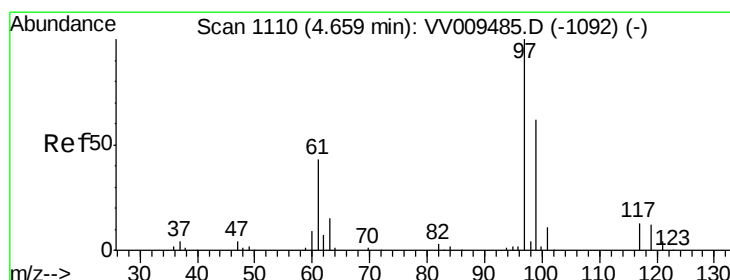
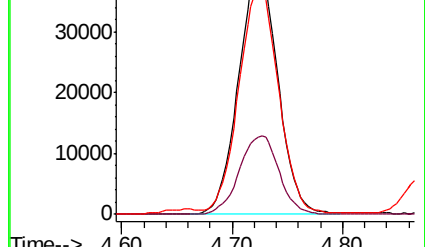
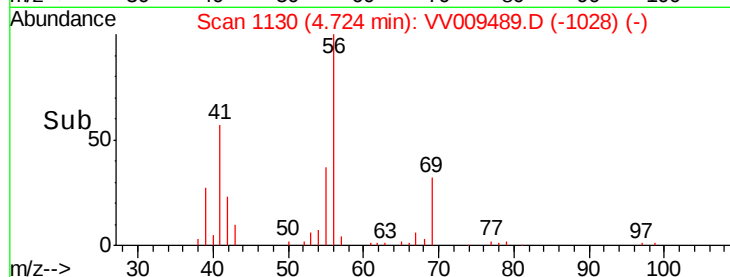


Abundance Ion 56.00 (55.70 to 56.70): VV009485.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV009485.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV009485.D (-1113) (-)

Time-->



#31

1,1,1-Trichloroethane

Concen: 28.691 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

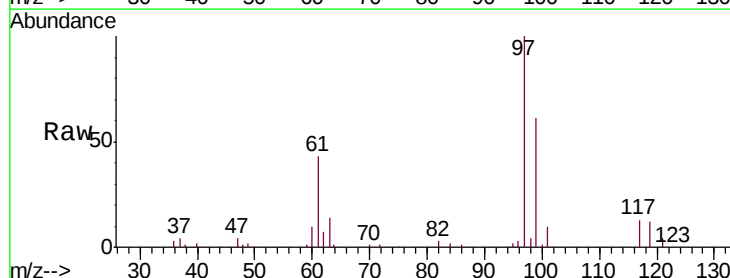
Tgt Ion: 97 Resp: 106822

Ion Ratio Lower Upper

97 100

99 62.4 51.0 76.4

61 42.6 36.1 54.1

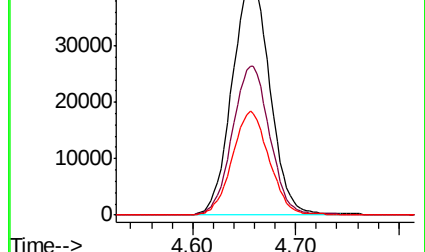
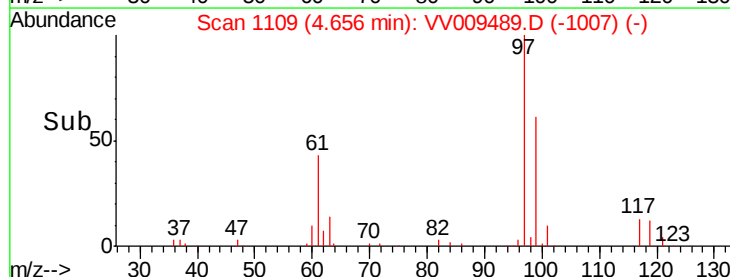


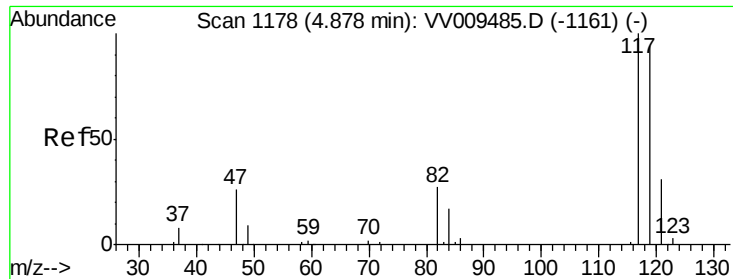
Abundance Ion 97.00 (96.70 to 97.70): VV009485.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV009485.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV009485.D (-1092) (-)

Time-->





#32

Carbon tetrachloride

Concen: 28.229 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

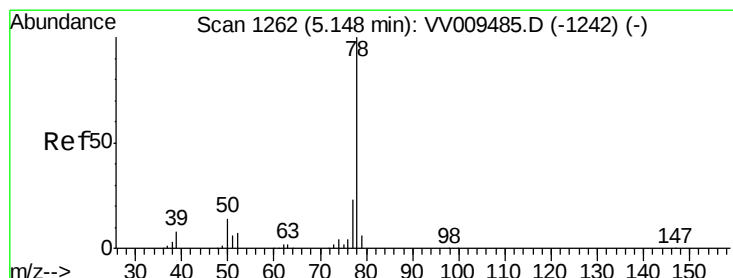
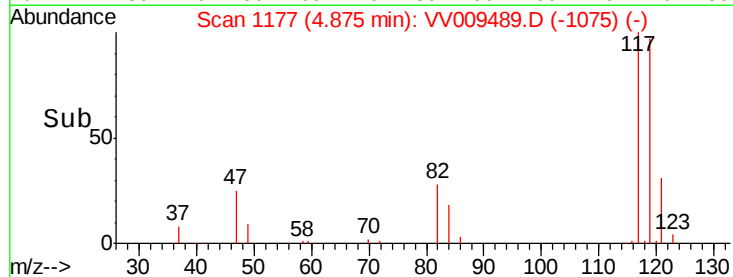
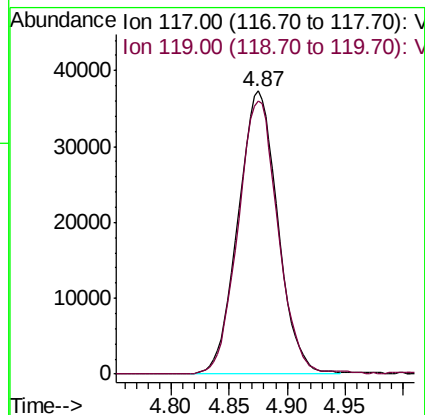
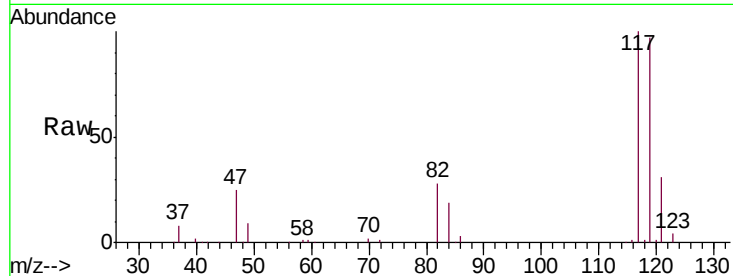
VSTD02566

Tgt Ion:117 Resp: 88857

Ion Ratio Lower Upper

117 100

119 96.6 76.5 114.7



#34

Benzene

Concen: 28.664 ug/L

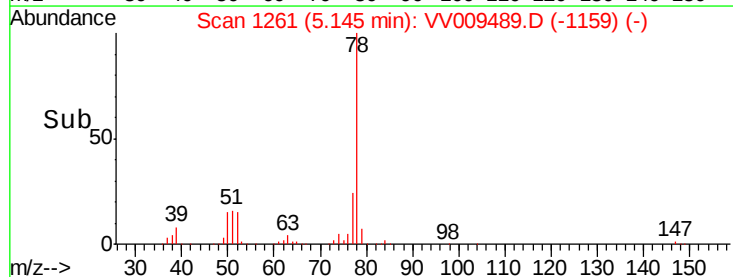
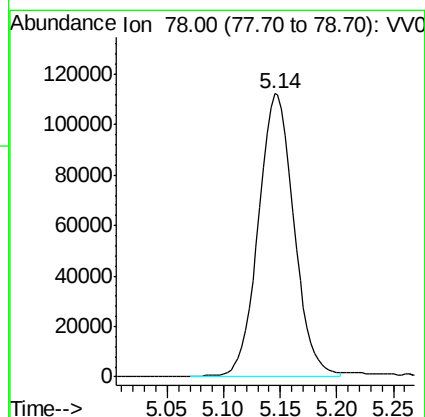
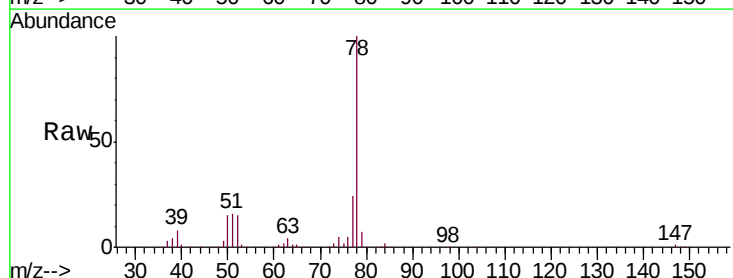
RT: 5.14 min Scan# 1261

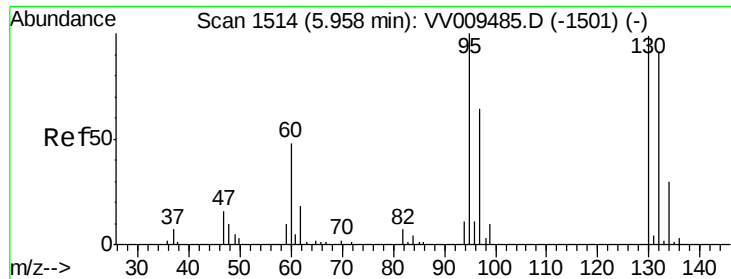
Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Tgt Ion: 78 Resp: 246683

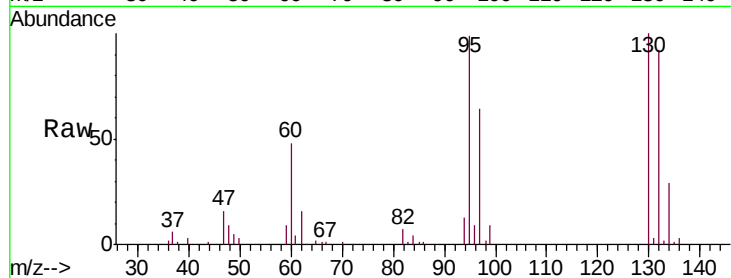




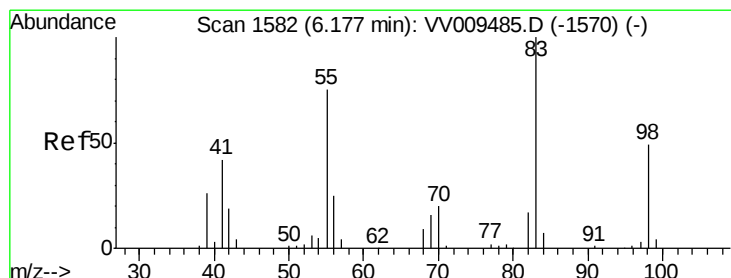
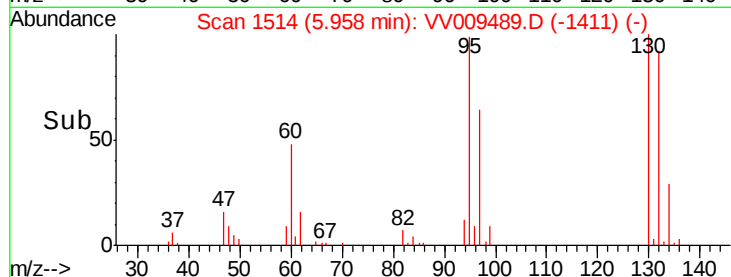
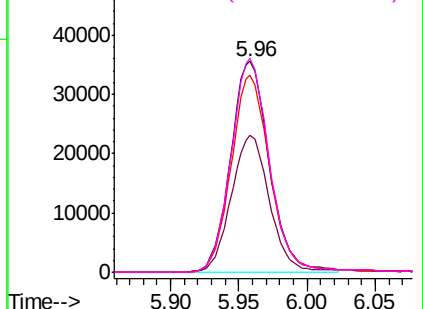
#35  
 Trichloroethene  
 Concen: 28.310 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

Tgt Ion: 95 Resp: 70018  
 Ion Ratio Lower Upper  
 95 100  
 97 63.9 44.3 82.3  
 132 93.1 64.4 119.6  
 130 100.4 69.4 128.8

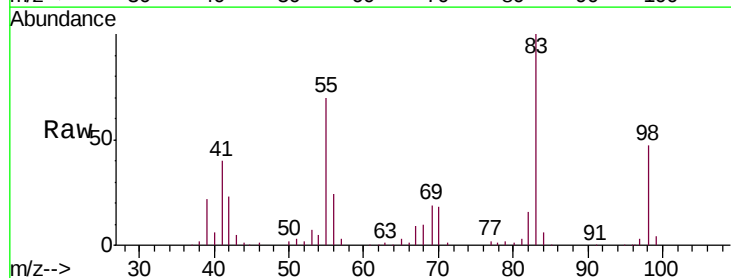


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0

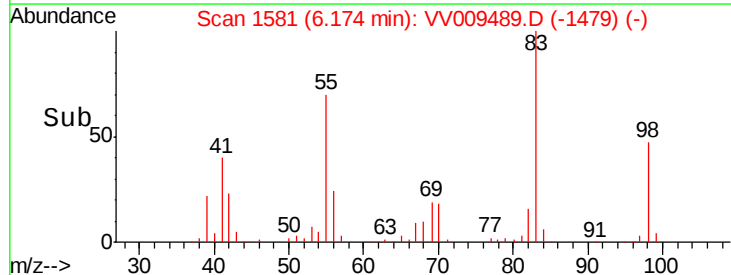
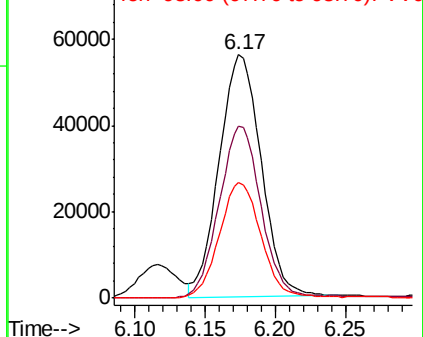


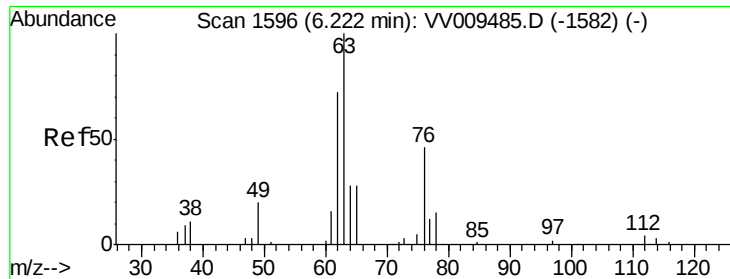
#36  
 Methylcyclohexane  
 Concen: 28.900 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion: 83 Resp: 116438  
 Ion Ratio Lower Upper  
 83 100  
 55 71.1 58.8 88.2  
 98 46.6 37.7 56.5



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

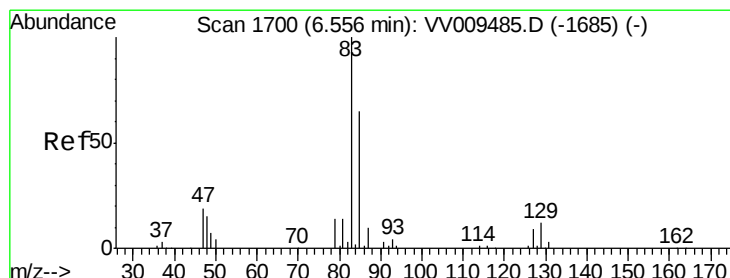
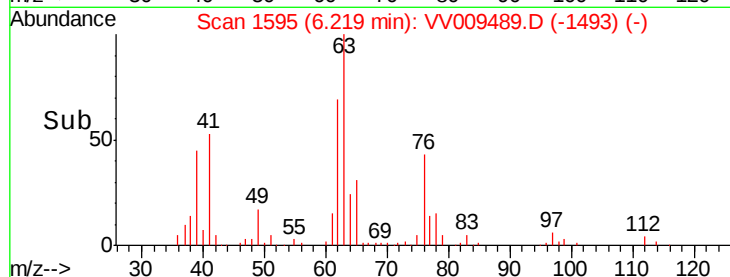
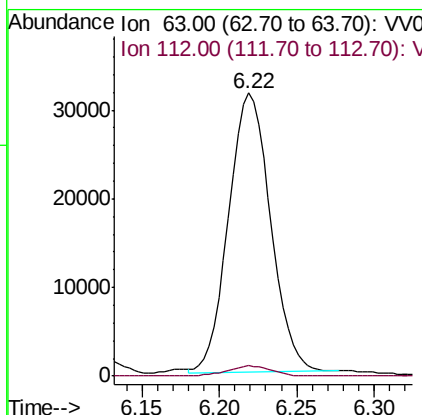
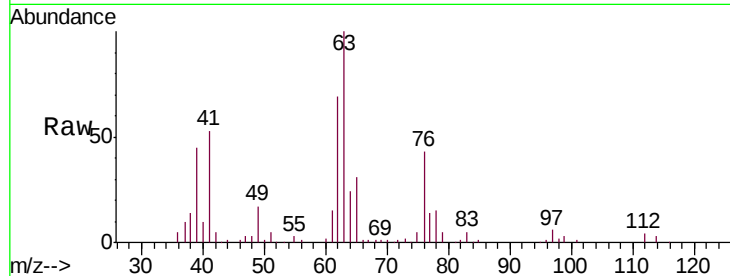




#40  
 1,2-Dichloropropane  
 Concen: 26.883 ug/L  
 RT: 6.22 min Scan# 1595  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

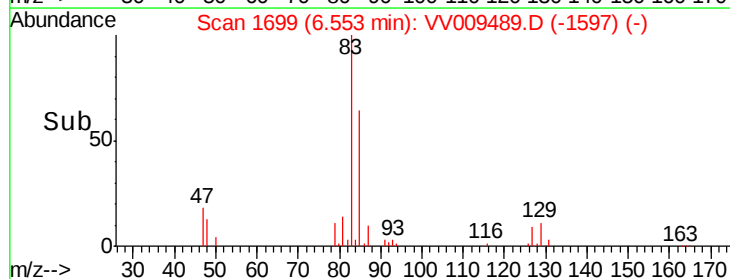
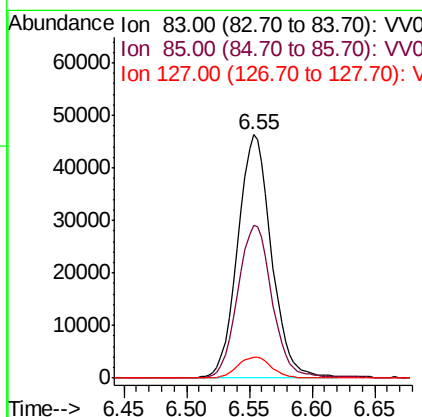
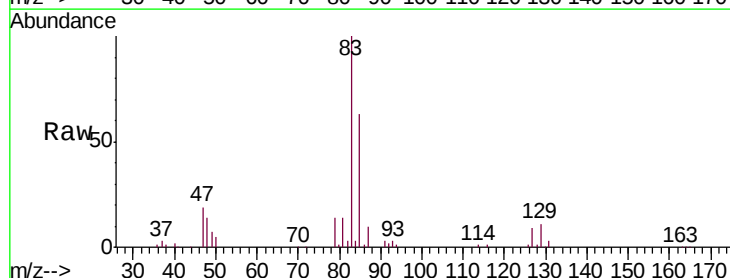
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

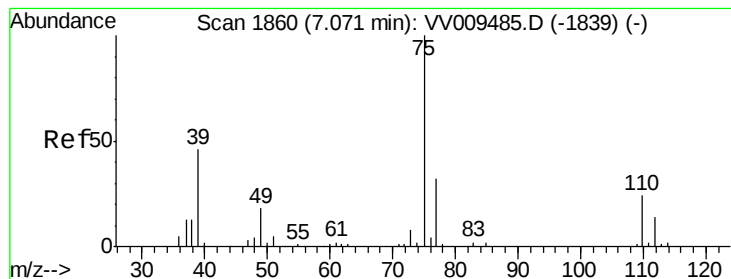
Tgt Ion: 63 Resp: 59652  
 Ion Ratio Lower Upper  
 63 100  
 112 3.8 3.0 4.4



#41  
 Bromodichloromethane  
 Concen: 29.027 ug/L  
 RT: 6.55 min Scan# 1699  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion: 83 Resp: 86940  
 Ion Ratio Lower Upper  
 83 100  
 85 62.6 46.5 86.3  
 127 8.8 7.2 10.8



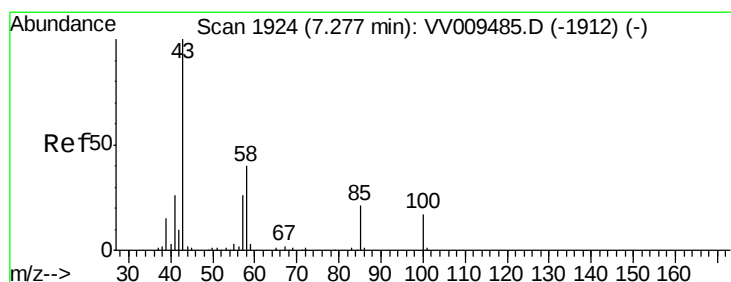
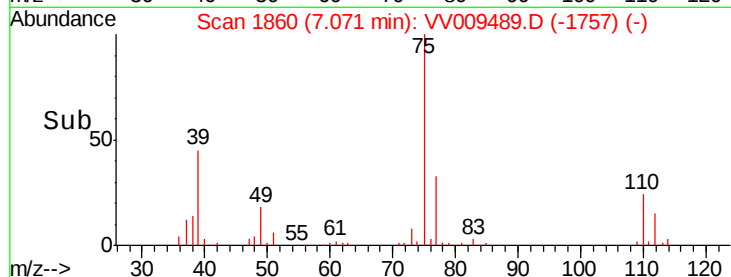
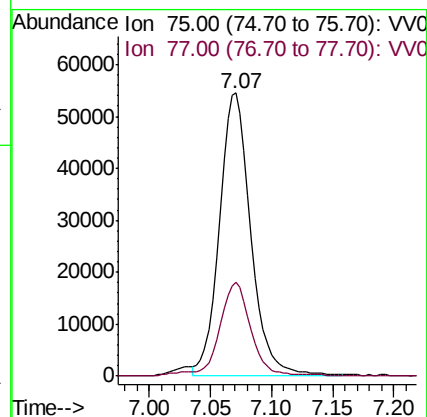
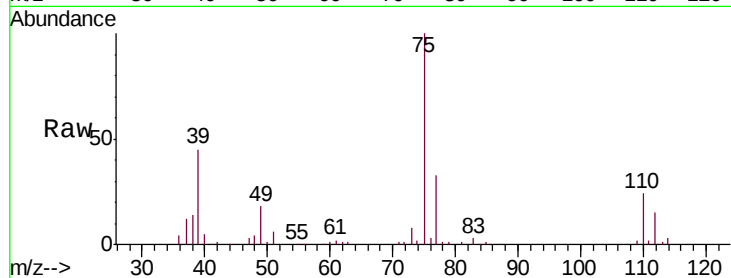


#42

cis-1,3-Dichloropropene  
Concen: 28.619 ug/L  
RT: 7.07 min Scan# 1860  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

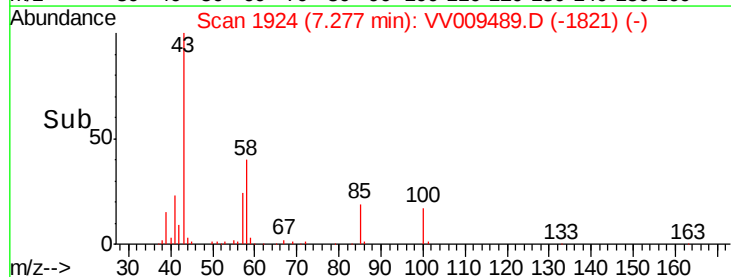
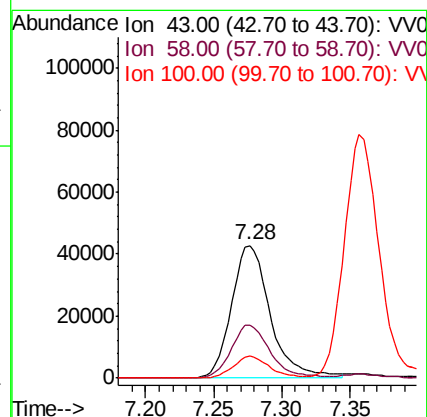
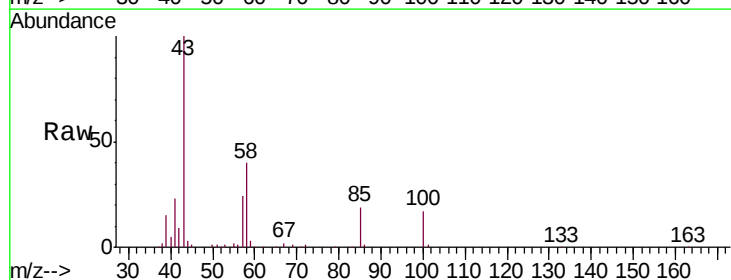
Tgt Ion: 75 Resp: 98592  
Ion Ratio Lower Upper  
75 100  
77 33.1 21.4 39.8

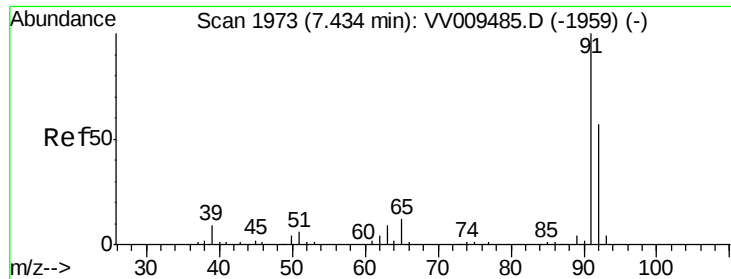


#43

4-Methyl-2-pentanone  
Concen: 48.493 ug/L  
RT: 7.28 min Scan# 1924  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion: 43 Resp: 84824  
Ion Ratio Lower Upper  
43 100  
58 39.9 31.9 47.9  
100 15.8 12.8 19.2





#44

Toluene

Concen: 29.006 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

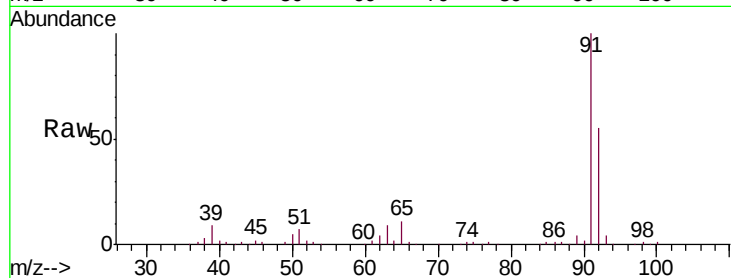
VSTD02566

Tgt Ion: 91 Resp: 282168

Ion Ratio Lower Upper

91 100

92 55.5 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

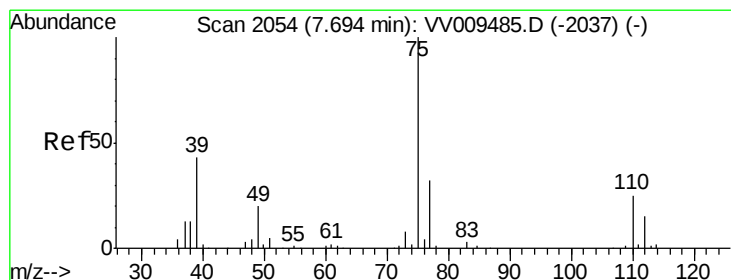
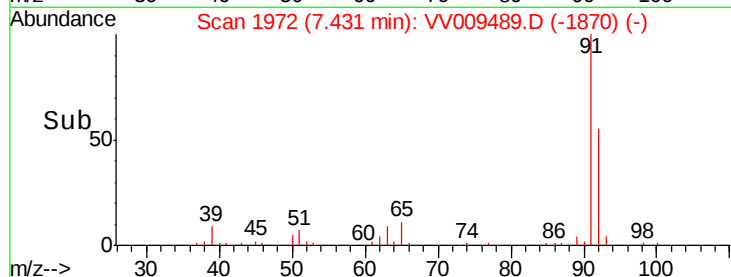
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#45

trans-1,3-Dichloropropene

Concen: 28.517 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009489.D

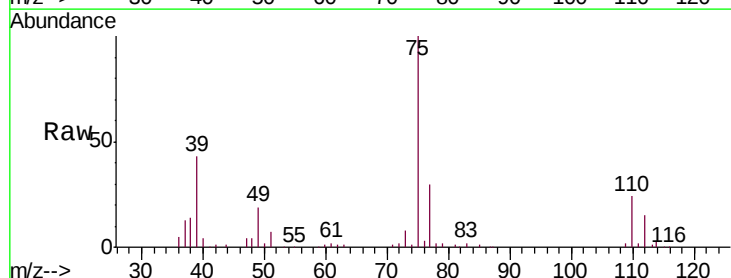
Acq: 05 Mar 2019 15:49

Tgt Ion: 75 Resp: 85797

Ion Ratio Lower Upper

75 100

77 30.2 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.69

50000

40000

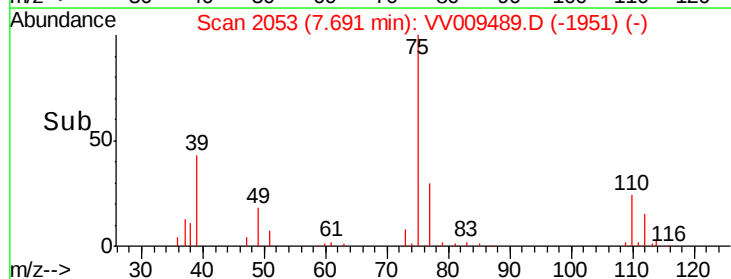
30000

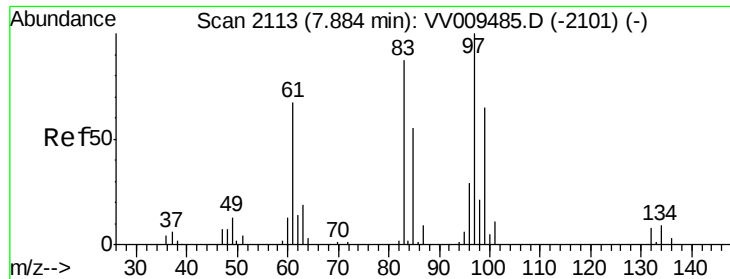
20000

10000

0

Time--> 7.60 7.65 7.70 7.75 7.80

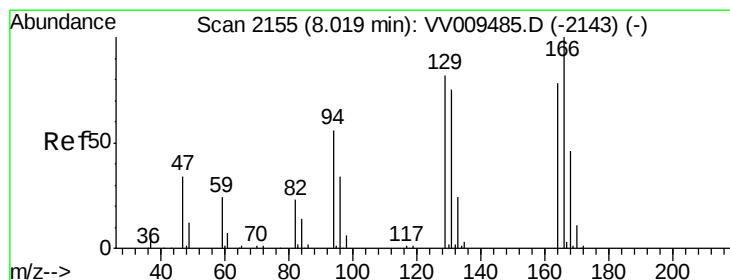
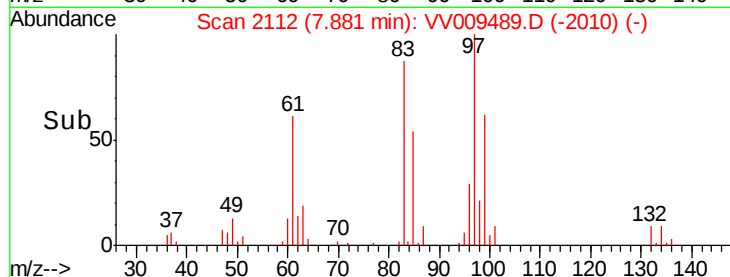
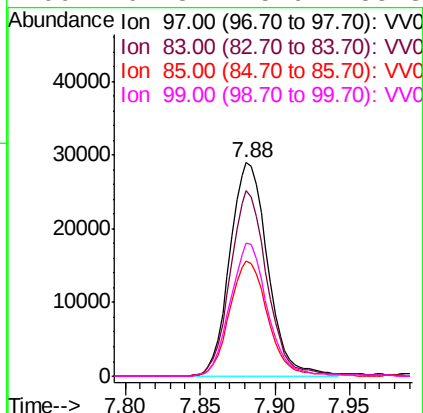
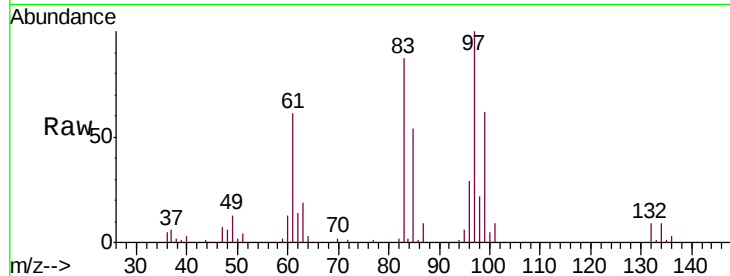




#46  
 1,1,2-Trichloroethane  
 Concen: 27.817 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

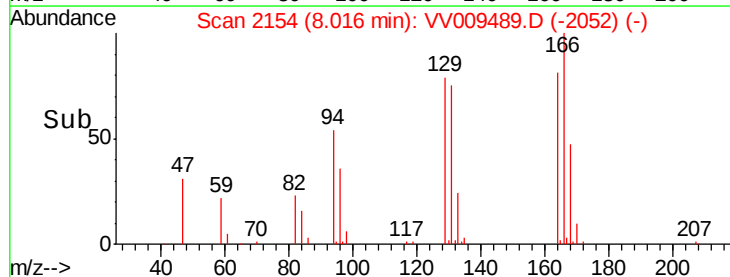
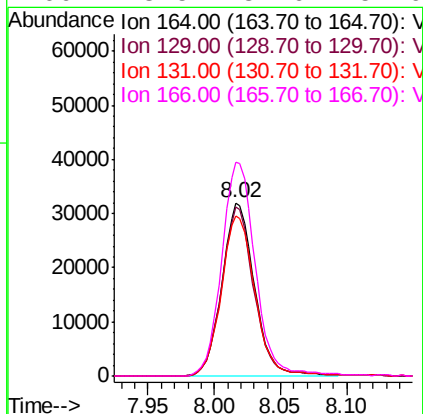
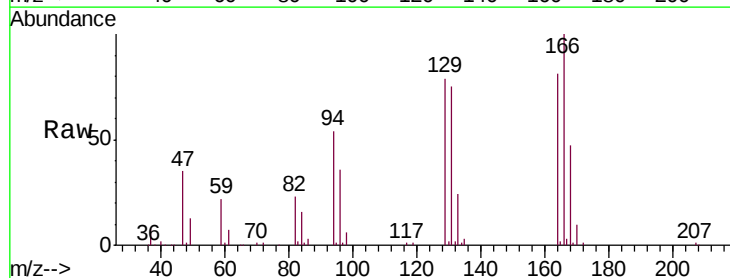
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

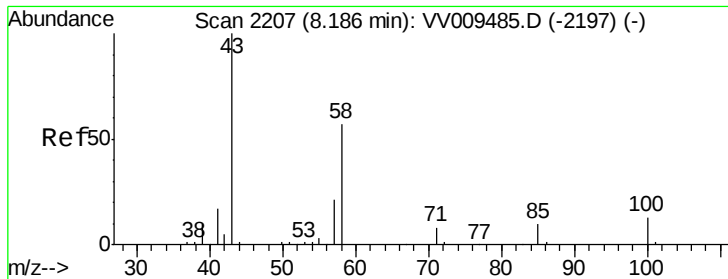
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 51281 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 86.8  | 63.8  | 118.6 |
| 85       | 54.1  | 39.5  | 73.4  |
| 99       | 62.3  | 45.9  | 85.3  |



#47  
 Tetrachloroethene  
 Concen: 29.041 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. -0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 54479 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 98.0  | 67.7  | 125.7 |
| 131      | 92.9  | 67.5  | 125.3 |
| 166      | 123.5 | 81.6  | 151.6 |

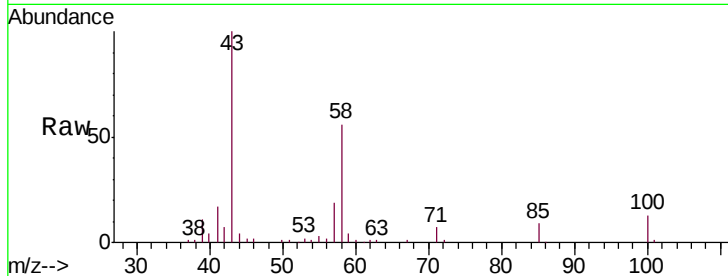




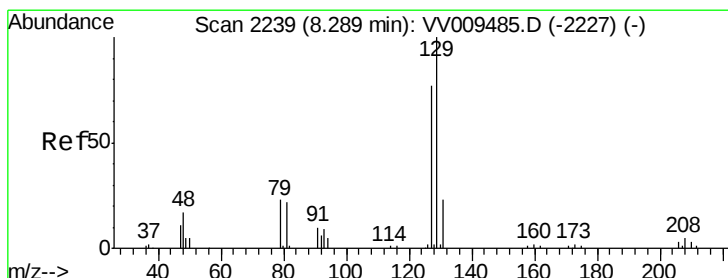
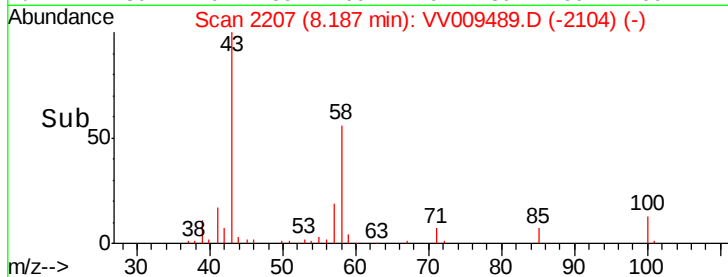
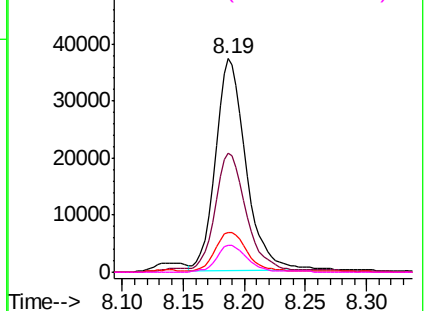
#49  
2-Hexanone  
Concen: 49.383 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

Tgt Ion: 43 Resp: 65320  
Ion Ratio Lower Upper  
43 100  
58 55.6 46.3 69.5  
57 19.7 15.8 23.6  
100 12.9 10.0 15.0

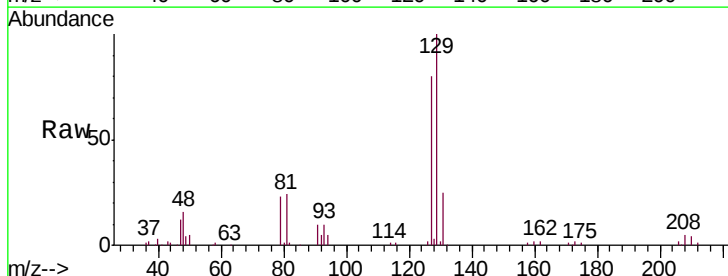


Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

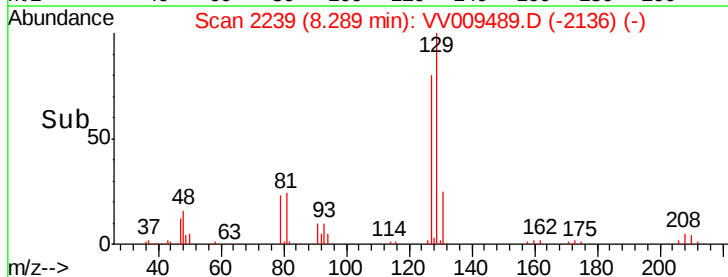
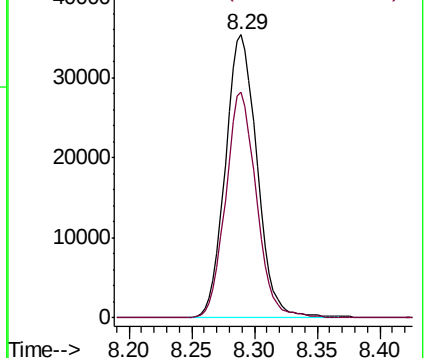


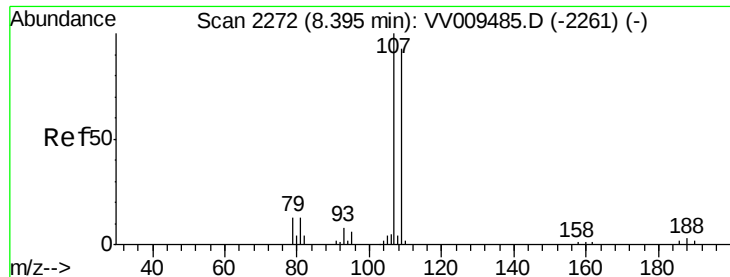
#50  
Dibromochloromethane  
Concen: 28.019 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion: 129 Resp: 62536  
Ion Ratio Lower Upper  
129 100  
127 79.9 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

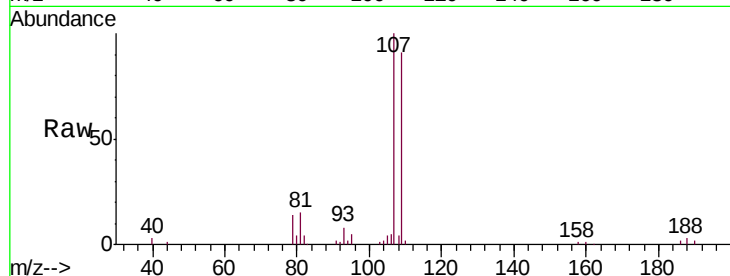




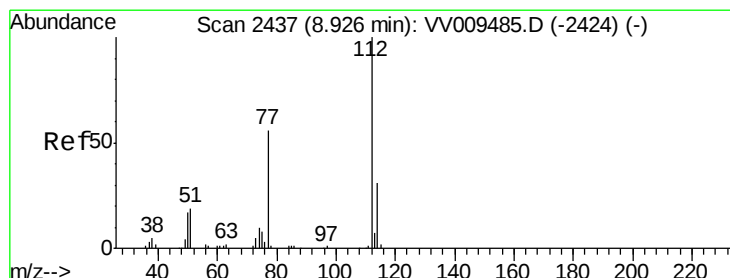
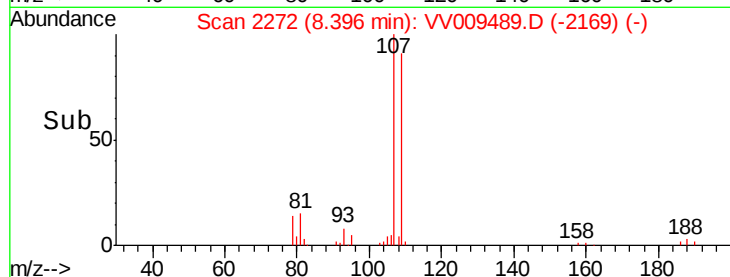
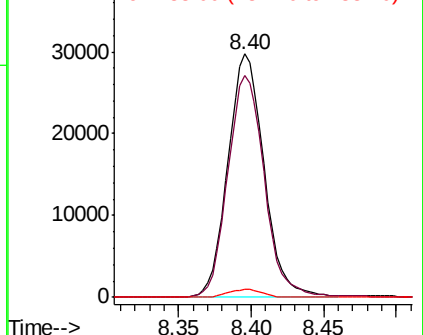
#51  
1,2-Dibromoethane  
Concen: 27.089 ug/L  
RT: 8.40 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

Tgt Ion:107 Resp: 51598  
Ion Ratio Lower Upper  
107 100  
109 91.0 65.6 121.8  
188 3.2 2.3 3.5

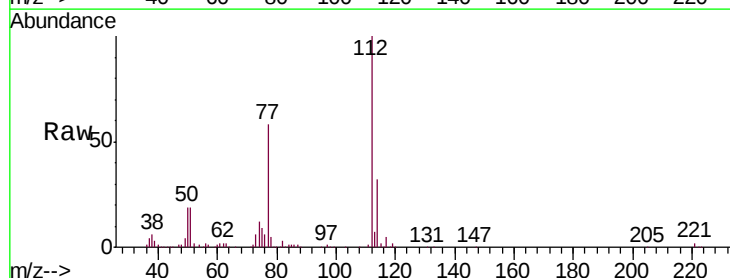


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

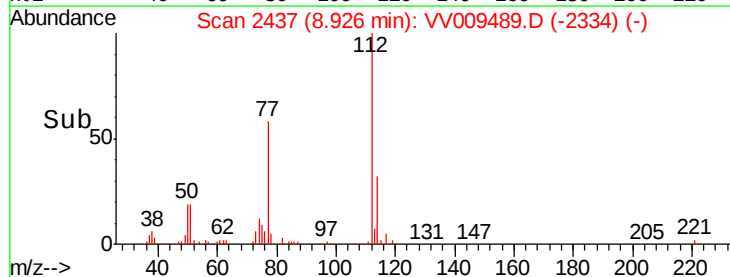
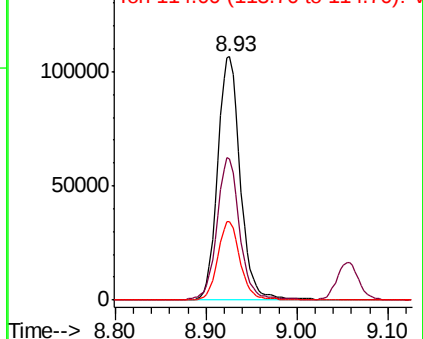


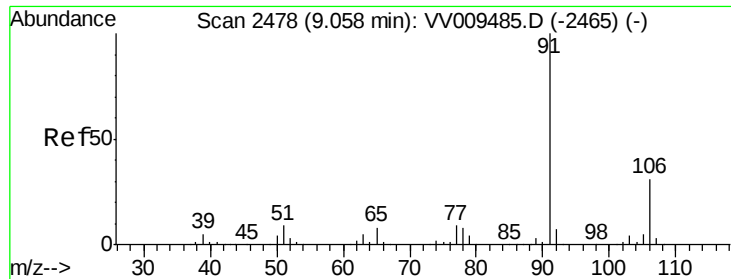
#52  
Chlorobenzene  
Concen: 28.570 ug/L  
RT: 8.93 min Scan# 2437  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion:112 Resp: 184220  
Ion Ratio Lower Upper  
112 100  
77 58.1 45.0 67.6  
114 32.3 22.9 42.5



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 77.00 (76.70 to 77.70): V  
Ion 114.00 (113.70 to 114.70): V

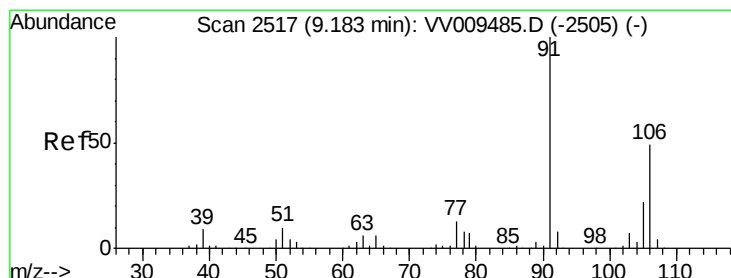
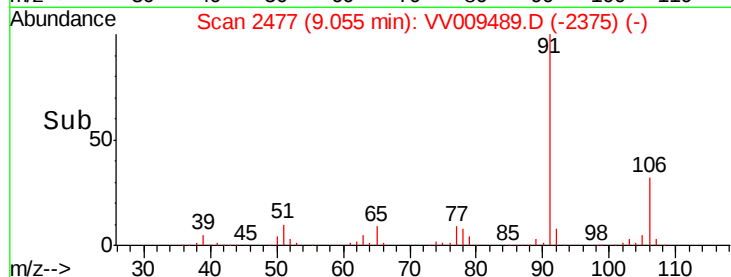
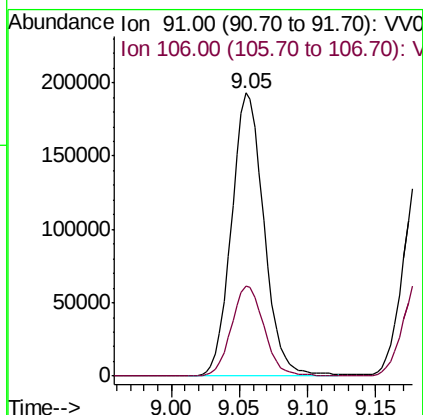
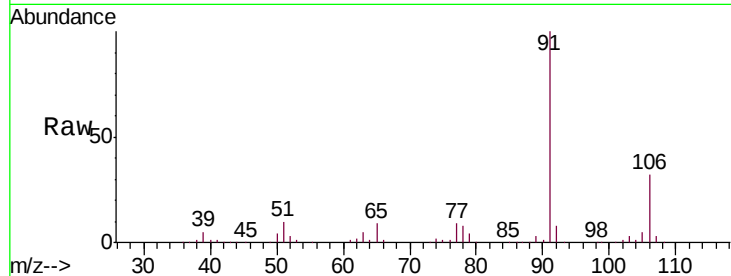




#53  
Ethylbenzene  
Concen: 28.686 ug/L  
RT: 9.05 min Scan# 2477  
Delta R.T. -0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

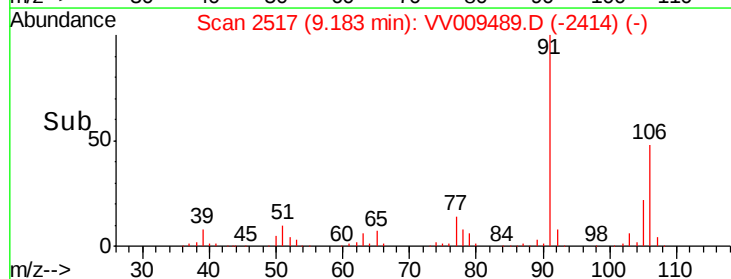
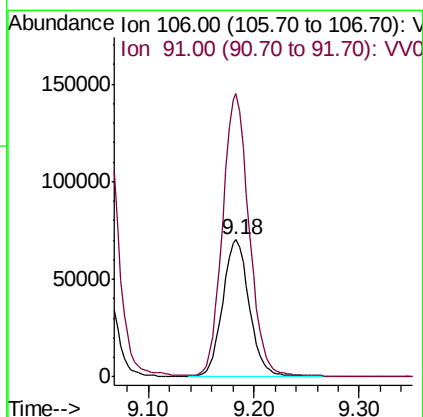
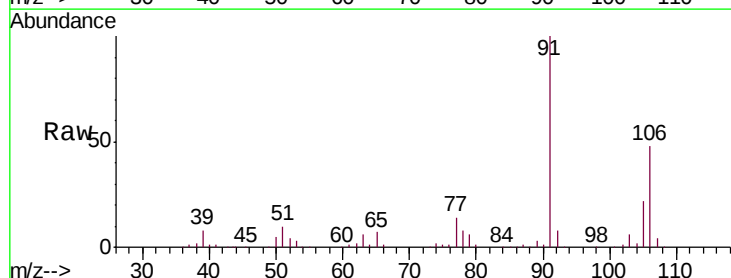
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

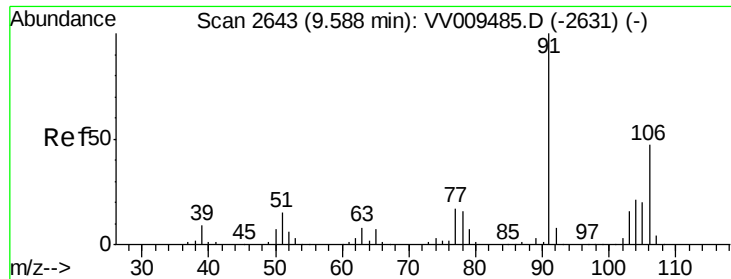
Tgt Ion: 91 Resp: 319326  
Ion Ratio Lower Upper  
91 100  
106 32.0 23.0 42.6



#54  
m,p-Xylene  
Concen: 29.356 ug/L  
RT: 9.18 min Scan# 2517  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion: 106 Resp: 123684  
Ion Ratio Lower Upper  
106 100  
91 206.3 138.5 257.1

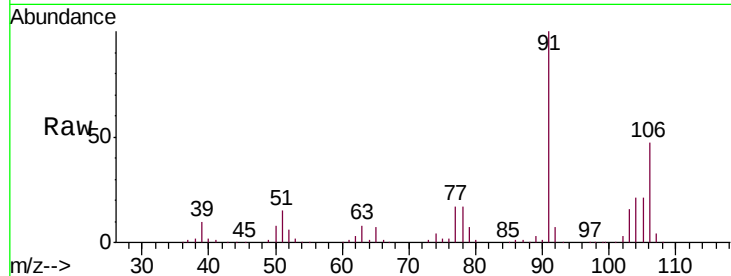




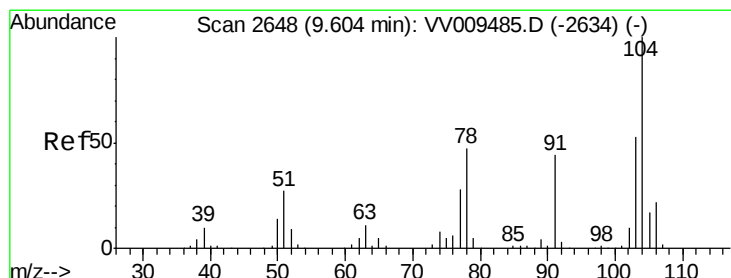
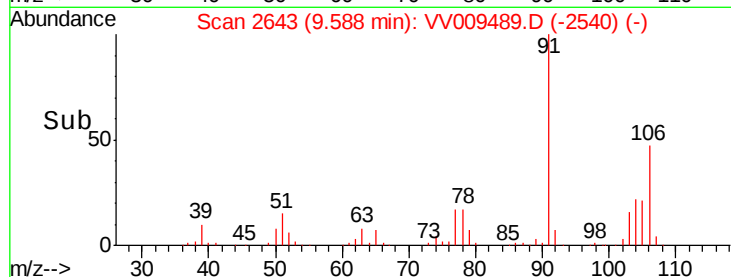
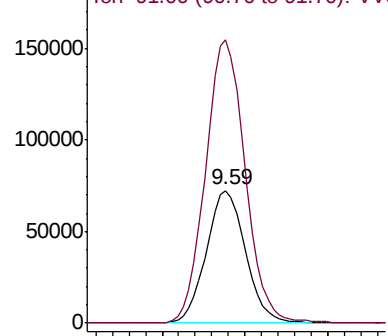
#55  
o-xylene  
Concen: 29.300 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02566

Tgt Ion:106 Resp: 119037  
Ion Ratio Lower Upper  
106 100  
91 213.9 143.8 267.0

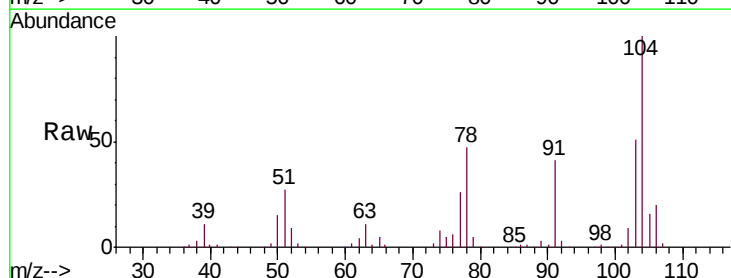


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VV0

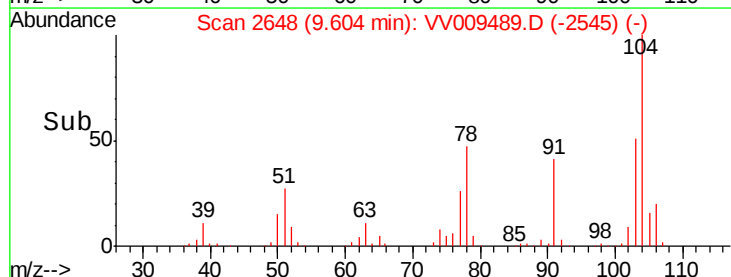
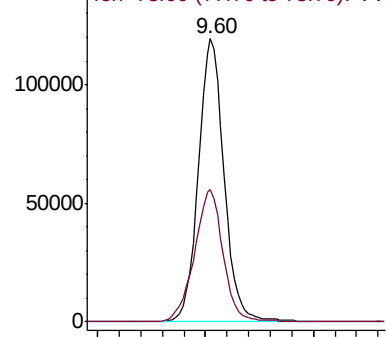


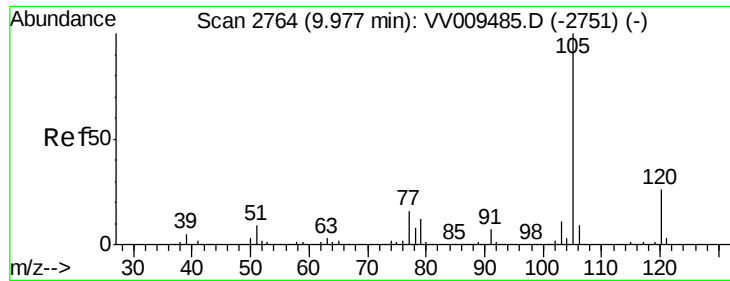
#56  
Styrene  
Concen: 29.655 ug/L  
RT: 9.60 min Scan# 2648  
Delta R.T. 0.00 min  
Lab File: VV009489.D  
Acq: 05 Mar 2019 15:49

Tgt Ion:104 Resp: 198209  
Ion Ratio Lower Upper  
104 100  
78 46.6 32.7 60.7



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





#57

Isopropylbenzene

Concen: 29.120 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02566

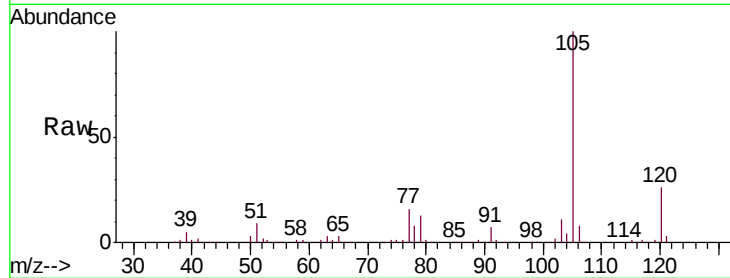
Tgt Ion: 105 Resp: 326309

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

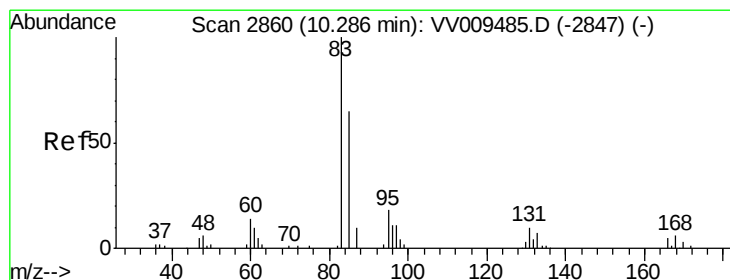
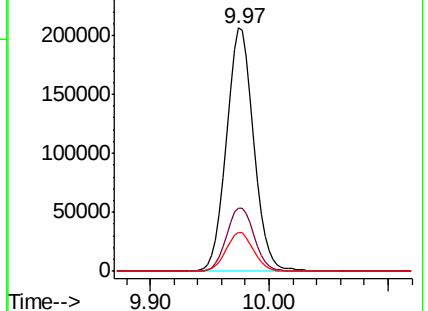
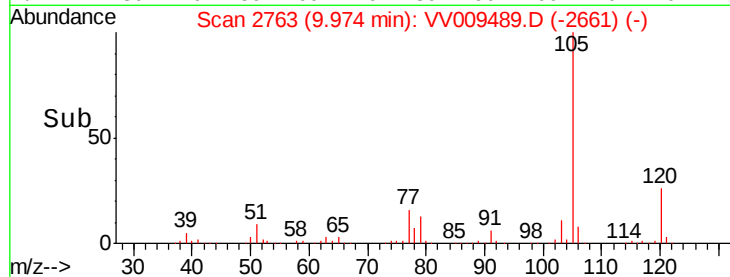
77 16.1 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): VV009489.D (-2661) (-)

Ion 120.00 (119.70 to 120.70): VV009489.D (-2661) (-)

Ion 77.00 (76.70 to 77.70): VV009489.D (-2661) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 26.021 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

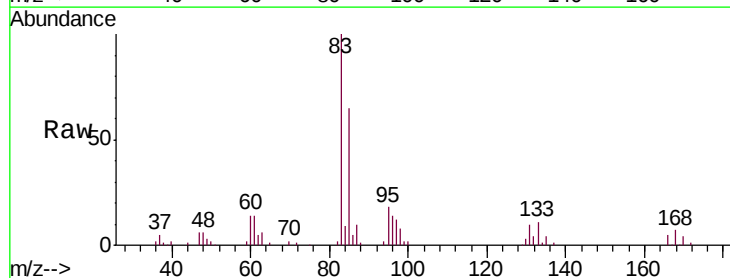
Tgt Ion: 83 Resp: 67735

Ion Ratio Lower Upper

83 100

85 65.3 44.7 83.1

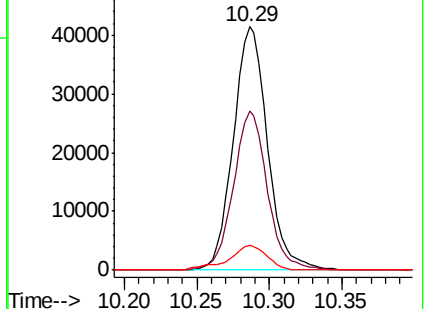
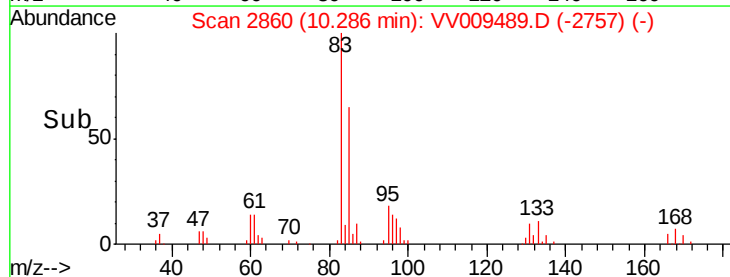
131 10.0 7.0 10.6

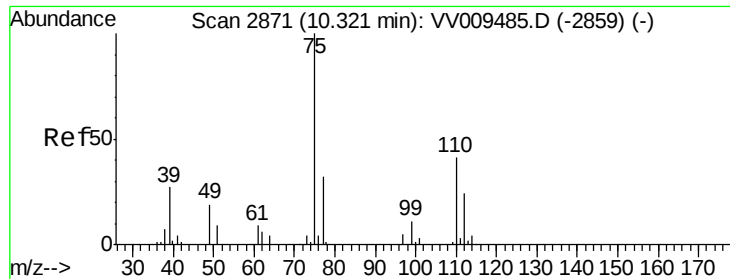


Abundance Ion 83.00 (82.70 to 83.70): VV009489.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV009489.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV009489.D (-2757) (-)





#59

1,2,3-Trichloropropane

Concen: 25.379 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

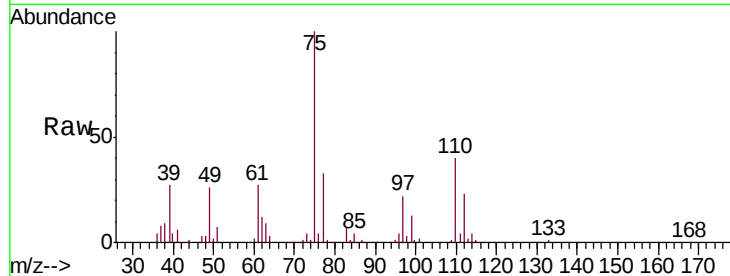
VSTD02566

Tgt Ion: 75 Resp: 47624

Ion Ratio Lower Upper

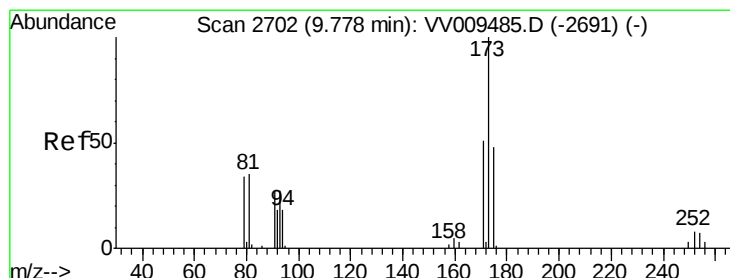
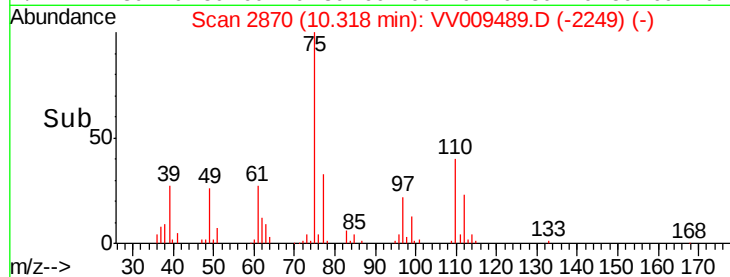
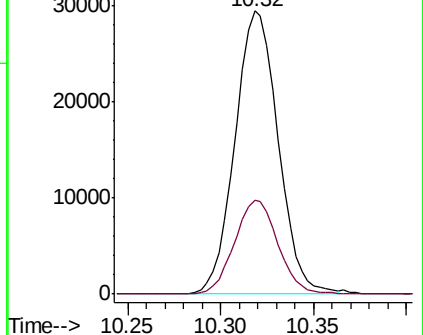
75 100

77 33.5 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV009485.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009485.D (-2859) (-)



#62

Bromoform

Concen: 26.446 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

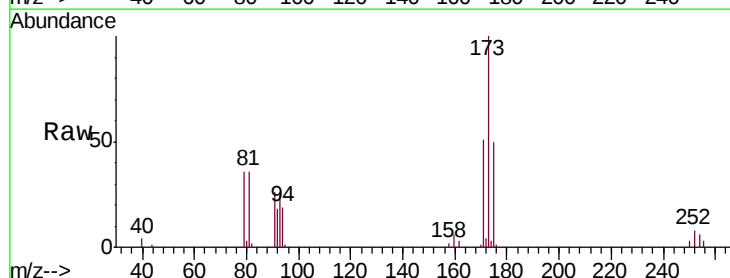
Tgt Ion: 173 Resp: 35386

Ion Ratio Lower Upper

173 100

175 48.4 38.8 58.2

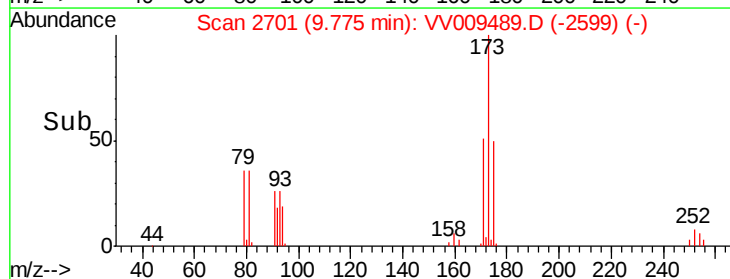
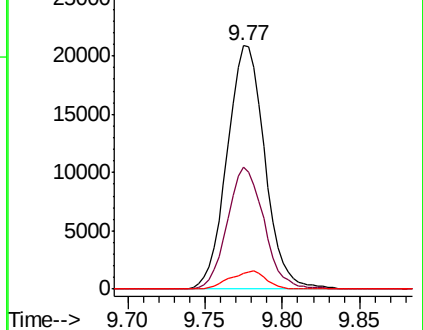
254 7.1 5.8 8.8

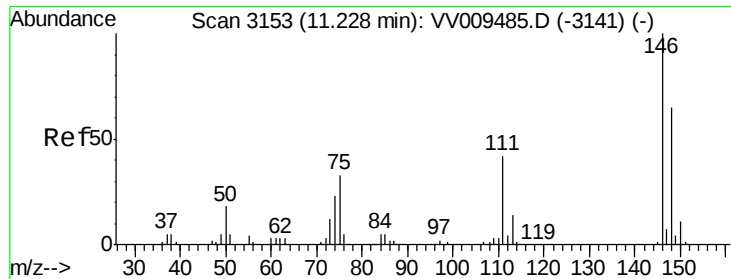


Abundance Ion 173.00 (172.70 to 173.70): VV009485.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VV009485.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV009485.D (-2691) (-)

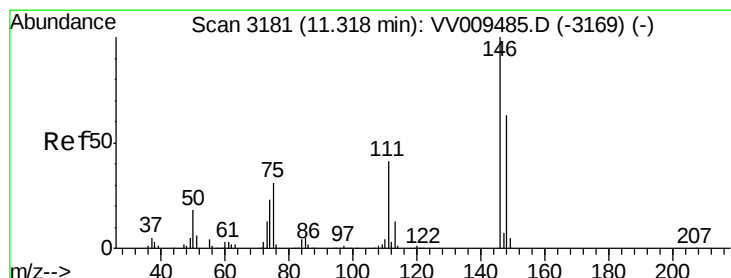
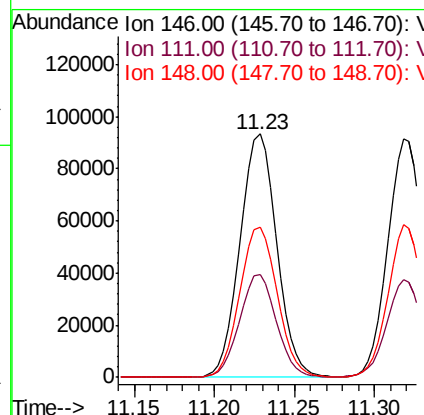
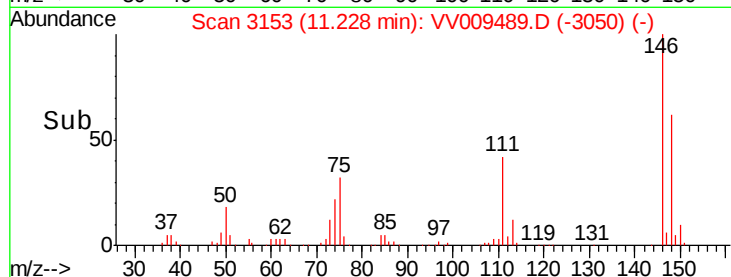
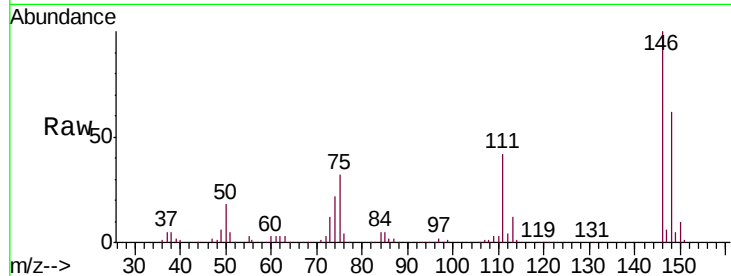




#63  
 1,3-Dichlorobenzene  
 Concen: 28.436 ug/L  
 RT: 11.23 min Scan# 3153  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

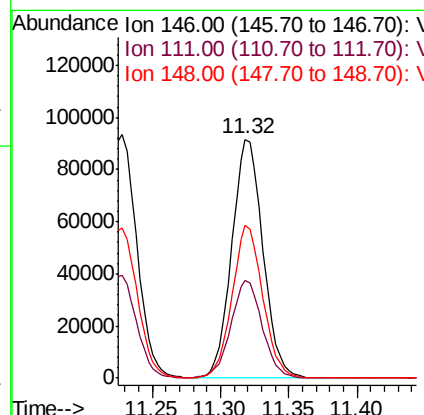
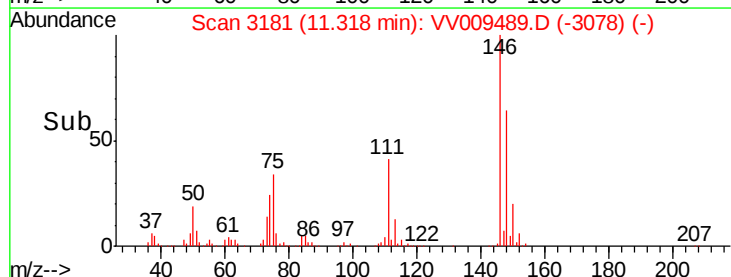
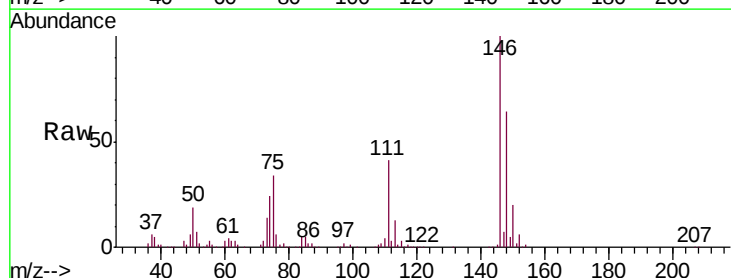
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

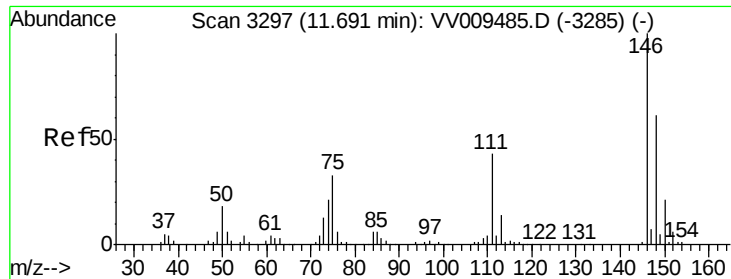
Tgt Ion:146 Resp: 146459  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 29.6 55.0  
 148 61.5 44.8 83.2



#64  
 1,4-Dichlorobenzene  
 Concen: 27.608 ug/L  
 RT: 11.32 min Scan# 3181  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion:146 Resp: 145308  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 29.2 54.2  
 148 63.9 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 28.207 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02566

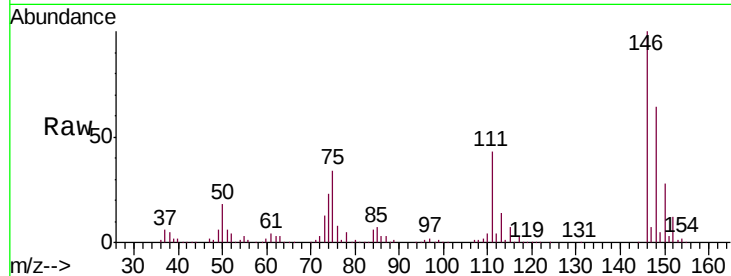
Tgt Ion: 146 Resp: 135485

Ion Ratio Lower Upper

146 100

111 43.2 35.4 53.0

148 64.1 50.6 76.0

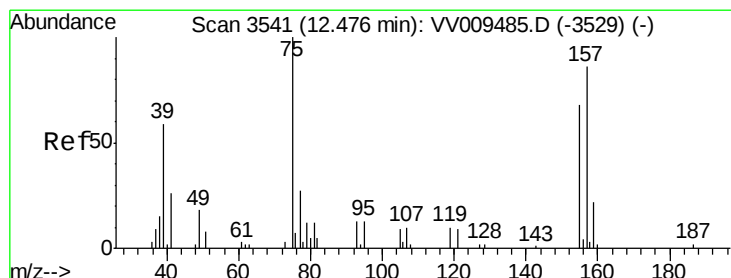
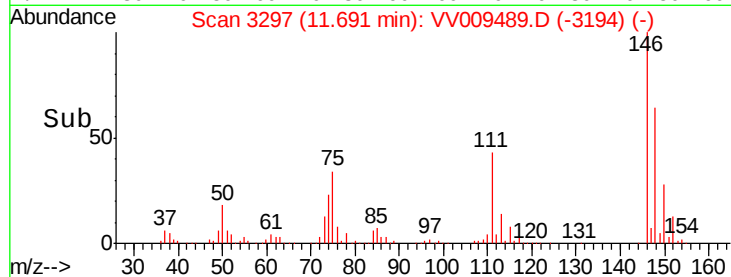
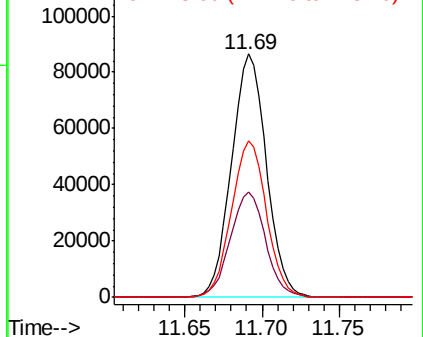


Abundance

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



#66

1,2-Dibromo-3-chloropropane

Concen: 23.694 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

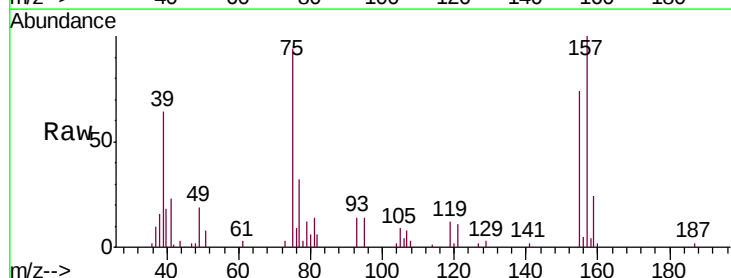
Tgt Ion: 75 Resp: 11399

Ion Ratio Lower Upper

75 100

157 106.7 81.0 121.4

155 78.6 61.2 91.8

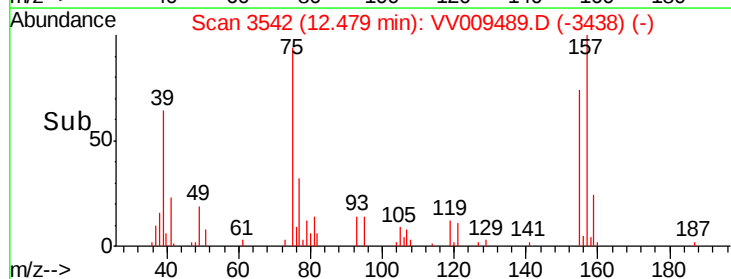
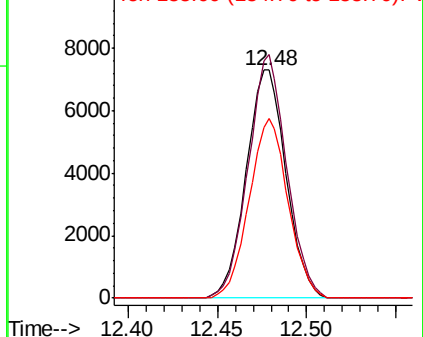


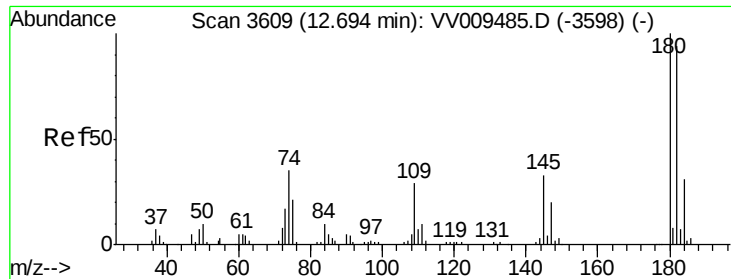
Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

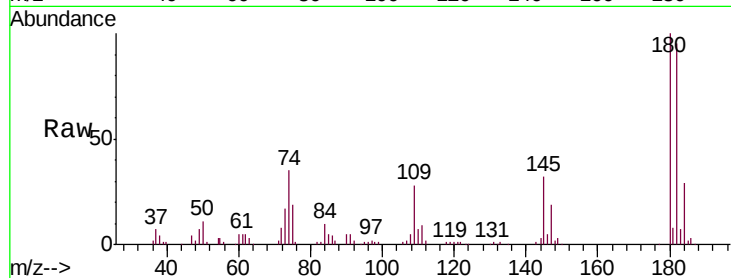




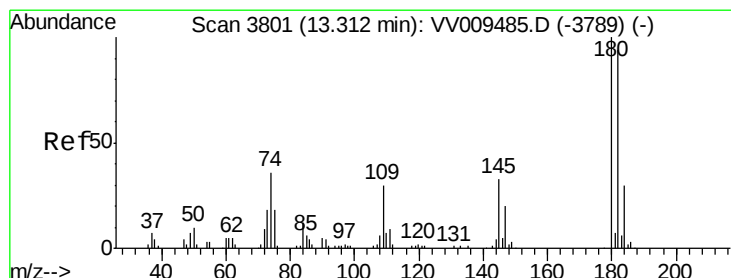
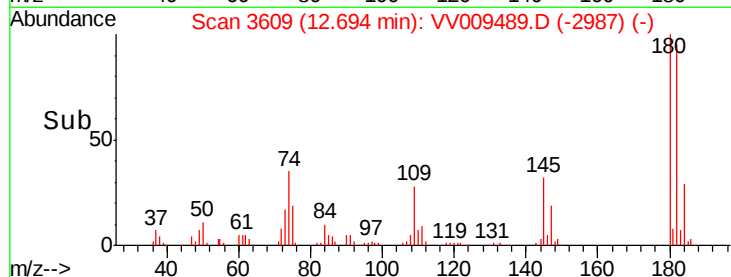
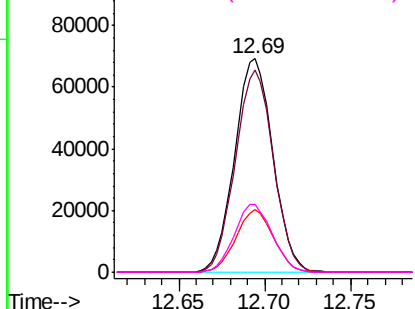
#67  
 1,3,5-Trichlorobenzene  
 Concen: 28.928 ug/L  
 RT: 12.69 min Scan# 3609  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02566

Tgt Ion:180 Resp: 106872  
 Ion Ratio Lower Upper  
 180 100  
 182 94.1 75.4 113.2  
 184 28.8 23.9 35.9  
 145 31.6 26.0 39.0

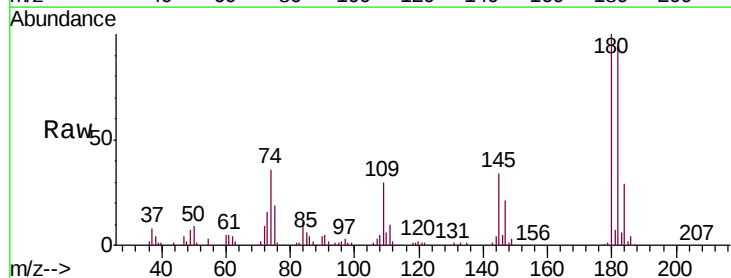


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

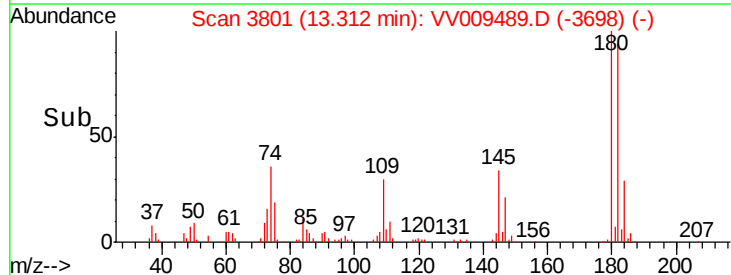
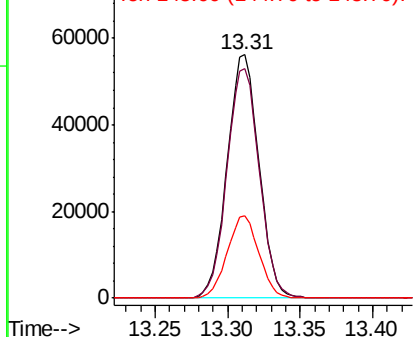


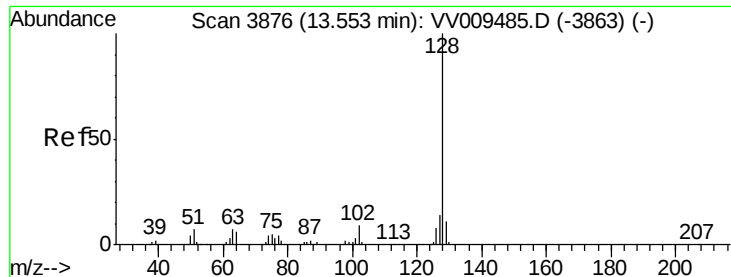
#68  
 1,2,4-trichlorobenzene  
 Concen: 28.964 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. 0.00 min  
 Lab File: VV009489.D  
 Acq: 05 Mar 2019 15:49

Tgt Ion:180 Resp: 85673  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 75.9 113.9  
 145 33.7 26.2 39.4



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: 27.541 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02566

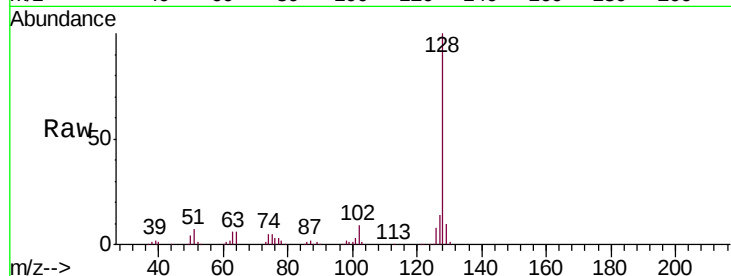
Tgt Ion:128 Resp: 171588

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

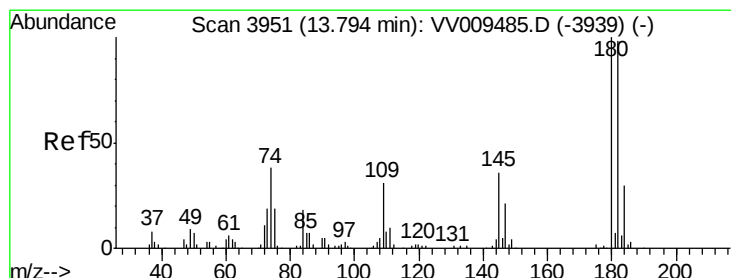
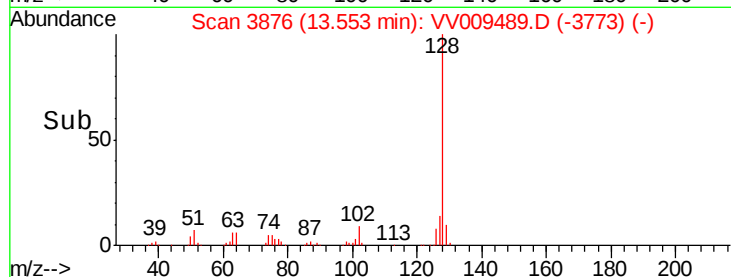
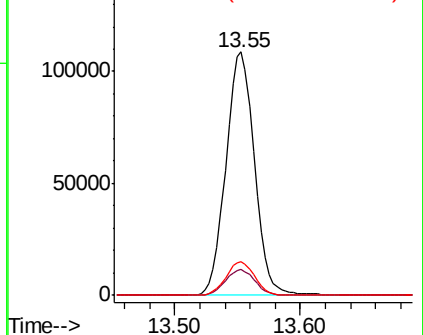
127 13.8 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 28.509 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009489.D

Acq: 05 Mar 2019 15:49

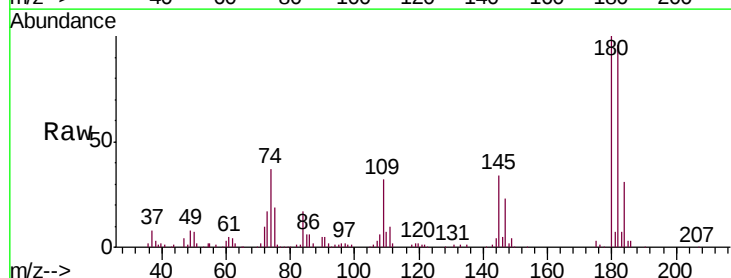
Tgt Ion:180 Resp: 77577

Ion Ratio Lower Upper

180 100

182 94.7 74.2 111.2

145 35.0 27.7 41.5



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

