

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV040320\  
 Data File : VV015399.D  
 Acq On : 03 Apr 2020 17:16  
 Operator : SY/MD  
 Sample : L2065-11  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBF07

Quant Time: Apr 07 18:44:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 07 18:28:34 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 702899   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 676831   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.18 | 152  | 293      | 50.00 | ug/L  | -0.10    |

## System Monitoring Compounds

|                                |         |       |          |          |      |             |
|--------------------------------|---------|-------|----------|----------|------|-------------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 269682   | 42.79    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.58%      |
| 7) Chloroethane-d5             | 1.58    | 69    | 239247   | 44.44    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.88%      |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 397556   | 35.29    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.58%      |
| 21) 2-Butanone-d5              | 3.93    | 46    | 307184   | 91.70    | ug/L | 0.00        |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.70%      |
| 24) Chloroform-d               | 4.38    | 84    | 460909   | 44.30    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.60%      |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 295338   | 45.57    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.14%      |
| 32) Benzene-d6                 | 5.08    | 84    | 967622   | 46.42    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.84%      |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 286391   | 46.60    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.20%      |
| 41) Toluene-d8                 | 7.34    | 98    | 933439   | 46.83    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.66%      |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 149068   | 43.90    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.80%      |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 263512   | 93.89    | ug/L | 0.00        |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.89%      |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 405917   | 46.42    | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.84%      |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 369254   | 55400.36 | ug/L | 0.00        |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 110800.72%# |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc     | Units | Qvalue |
|--------------------------------|-------|------|----------|----------|-------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 3684     | 0.69     | ug/L  | # 25   |
| 13) Acetone                    | 2.22  | 43   | 38723    | 17.61    | ug/L  | 64     |
| 25) Chloroform                 | 4.40  | 83   | 30067    | 3.17     | ug/L  | 91     |
| 27) 1,2-Dichloroethane         | 5.08  | 62   | 5613     | 0.79     | ug/L  | 97     |
| 33) Benzene                    | 5.13  | 78   | 85853    | 4.29     | ug/L  | 100    |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75   | 10377    | 1.26     | ug/L  | 83     |
| 42) Toluene                    | 7.41  | 91   | 727498   | 32.68    | ug/L  | 99     |
| 48) 2-Hexanone                 | 8.11  | 43   | 32487    | 6.21     | ug/L  | # 44   |
| 52) Ethylbenzene               | 9.04  | 91   | 900636   | 36.04    | ug/L  | 99     |
| 53) m,p-Xylene                 | 9.16  | 106  | 776372   | 80.68    | ug/L  | 98     |
| 54) o-xylene                   | 9.56  | 106  | 346360   | 35.93    | ug/L  | 98     |
| 55) Styrene                    | 9.58  | 104  | 556527   | 34.72    | ug/L  | 98     |
| 56) Isopropylbenzene           | 9.95  | 105  | 145919   | 5.84     | ug/L  | 99     |
| 62) 1,3-Dichlorobenzene        | 11.21 | 146  | 626      | 63.46    | ug/L  | # 73   |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 1429     | 142.84   | ug/L  | # 8    |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 1473     | 146.41   | ug/L  | # 21   |
| 66) 1,2-Dibromo-3-chloropropan | 12.49 | 75   | 82618    | 41587.63 | ug/L  | # 4    |

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

Instrument :  
MSVOA\_V  
ClientSampleId :  
DBF07

Quant Time: Apr 07 18:44:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 07 18:28:34 2020  
Response via : Initial Calibration

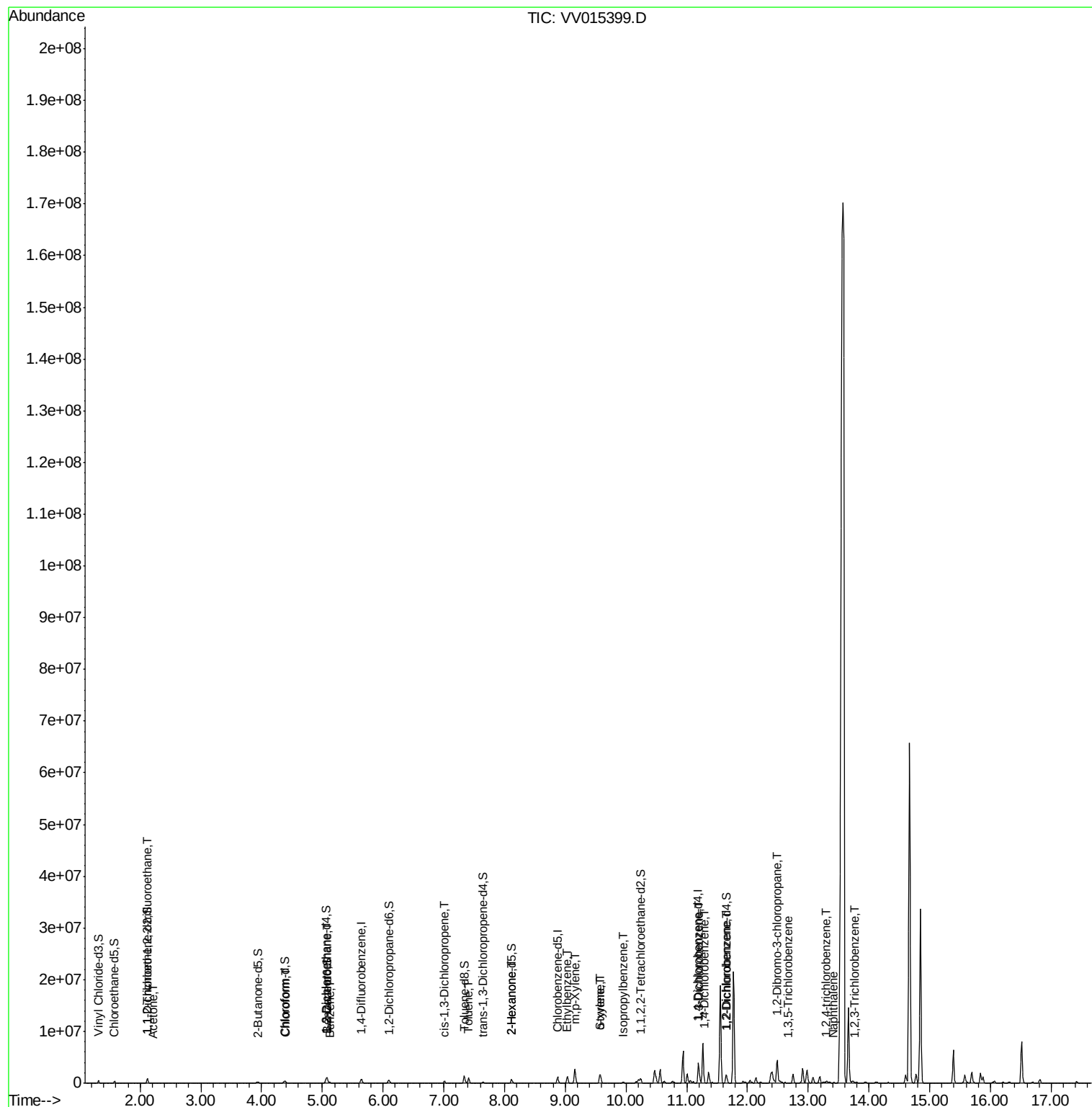
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|-------|------|----------|--------|--------|----------|
| 67) 1,3,5-Trichlorobenzene | 12.67 | 180  | 355      | 54.30  | ug/L # | 1        |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180  | 1364     | 228.43 | ug/L # | 77       |
| 69) Naphthalene            | 13.42 | 128  | 3851     | 168.69 | ug/L # | 1        |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180  | 954      | 155.10 | ug/L # | 1        |

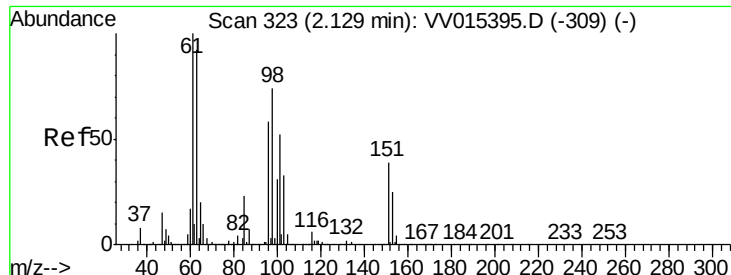
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV040320\  
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#10

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

Concen: 0.69 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

DBF07

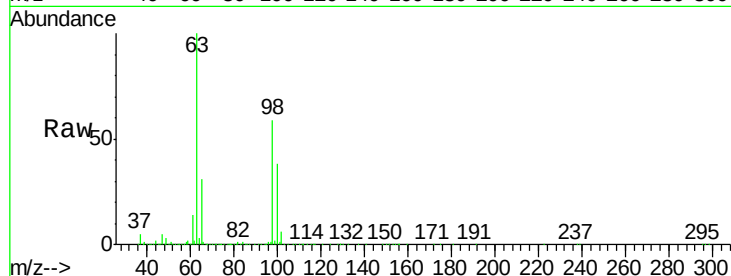
Tgt Ion: 101 Resp: 3684

Ion Ratio Lower Upper

101 100

85 0.8 36.1 54.1#

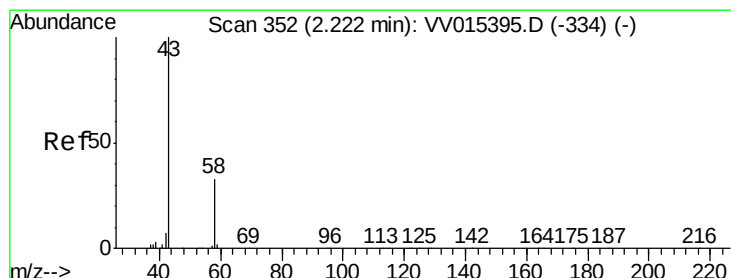
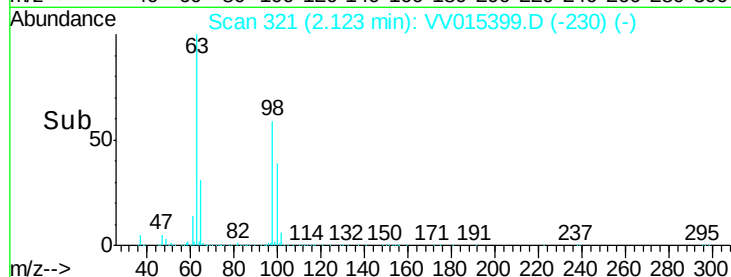
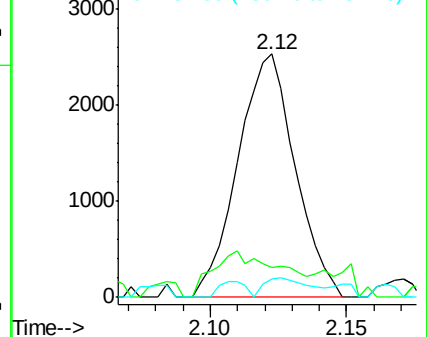
151 6.2 58.2 87.4#



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



#13

Acetone

Concen: 17.61 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.01 min

Lab File: VV015399.D

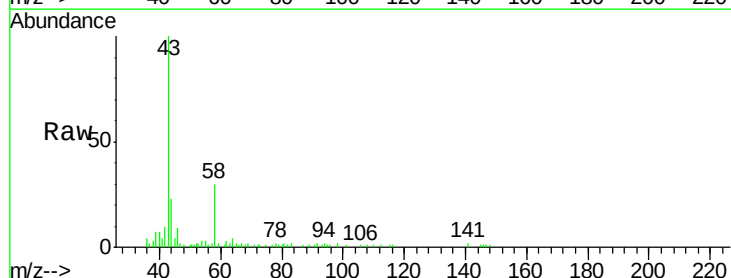
Acq: 03 Apr 2020 17:16

Tgt Ion: 43 Resp: 38723

Ion Ratio Lower Upper

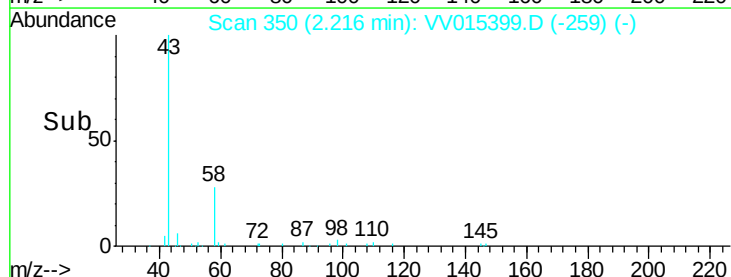
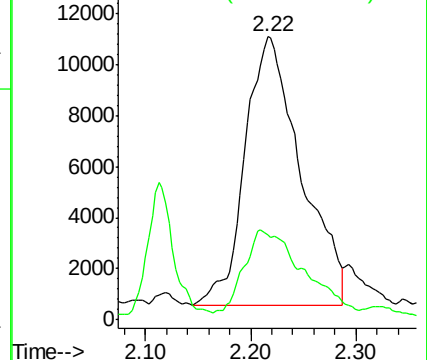
43 100

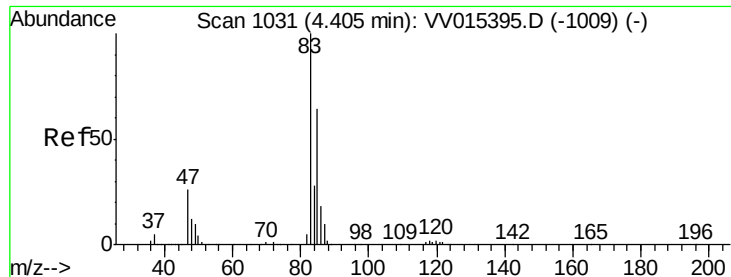
58 13.6 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#25

Chloroform

Concen: 3.17 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

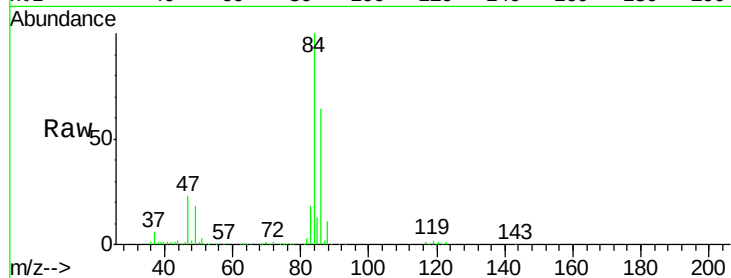
DBF07

Tgt Ion: 83 Resp: 30067

Ion Ratio Lower Upper

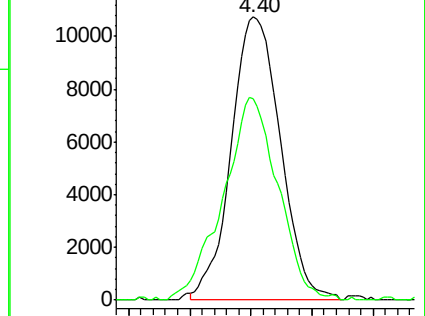
83 100

85 71.2 45.1 83.9

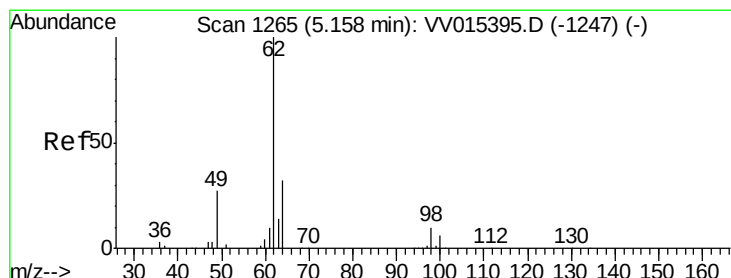
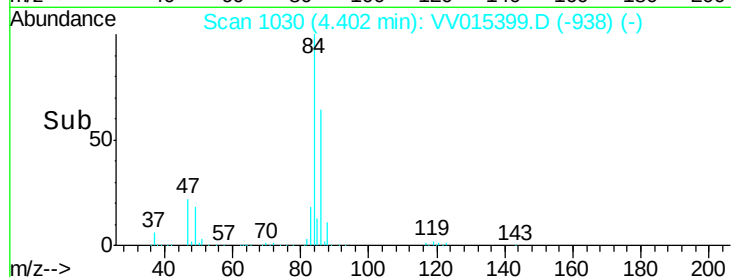


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



Time-->



#27

1,2-Dichloroethane

Concen: 0.79 ug/L

RT: 5.08 min Scan# 1240

Delta R.T. -0.08 min

Lab File: VV015399.D

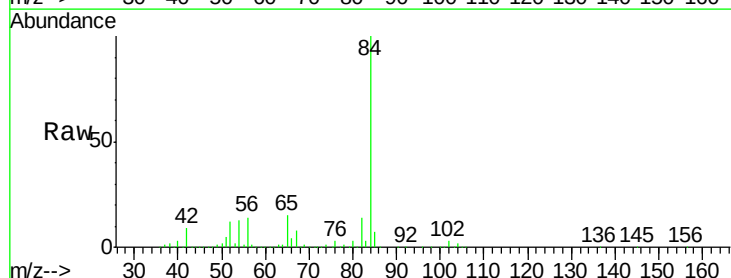
Acq: 03 Apr 2020 17:16

Tgt Ion: 62 Resp: 5613

Ion Ratio Lower Upper

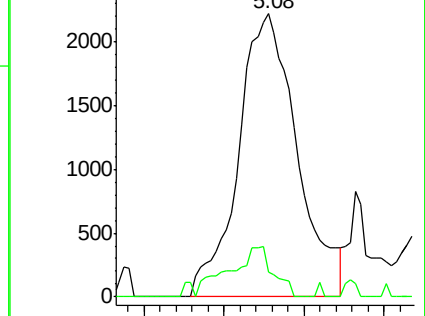
62 100

98 8.6 7.9 11.9

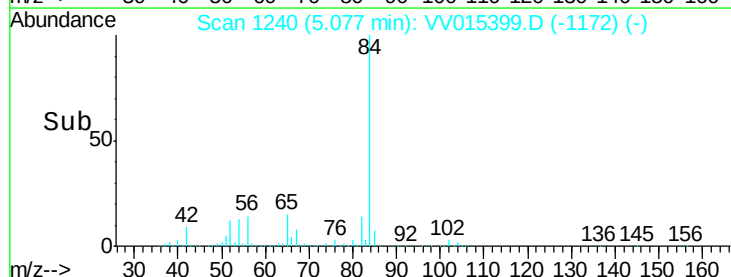


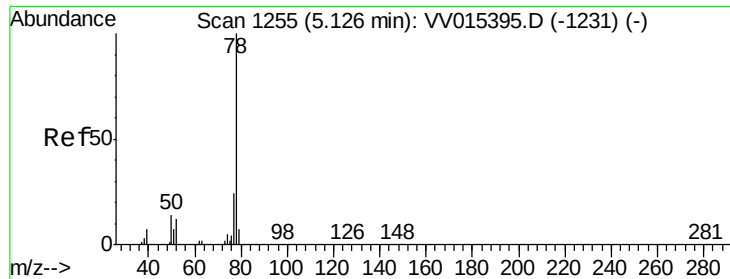
Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



Time-->





#33

Benzene

Concen: 4.29 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

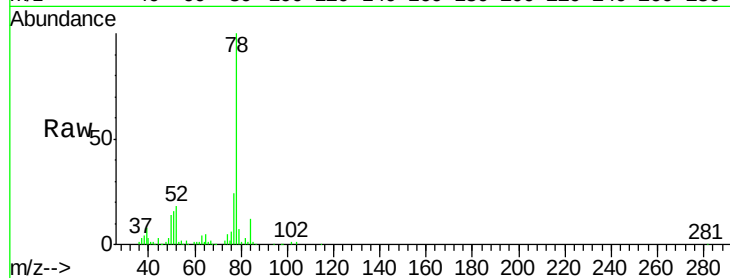
Instrument :

MSVOA\_V

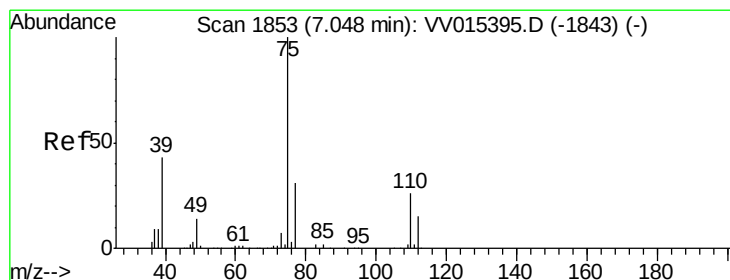
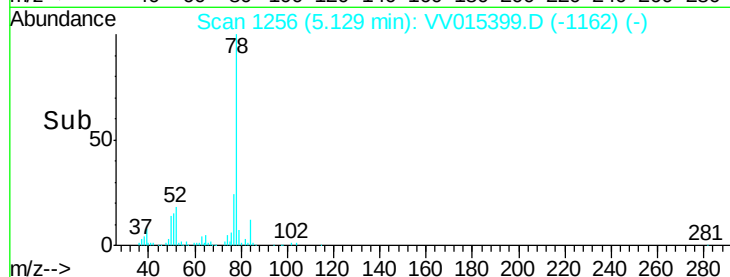
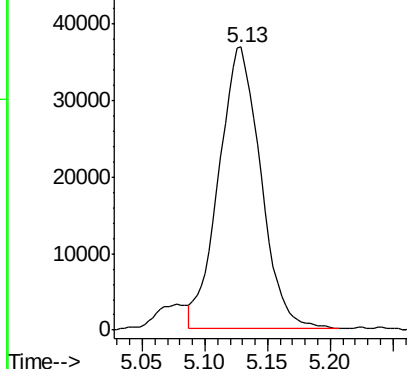
ClientSampleId :

DBF07

Tgt Ion: 78 Resp: 85853



Abundance Ion 78.00 (77.70 to 78.70): VV0



#39

cis-1,3-Dichloropropene

Concen: 1.26 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV015399.D

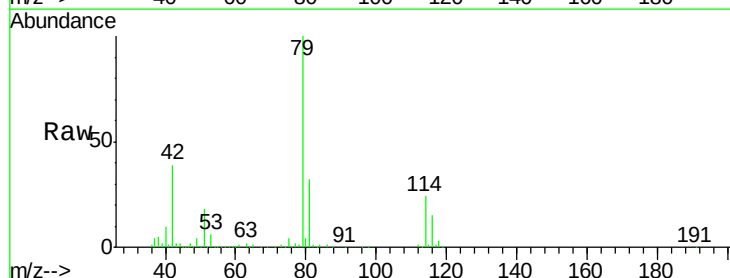
Acq: 03 Apr 2020 17:16

Tgt Ion: 75 Resp: 10377

Ion Ratio Lower Upper

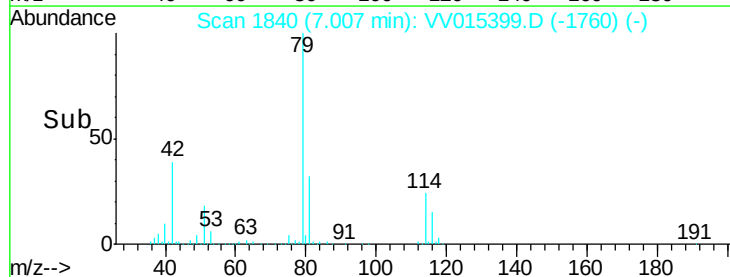
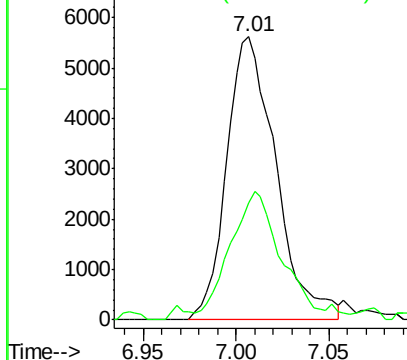
75 100

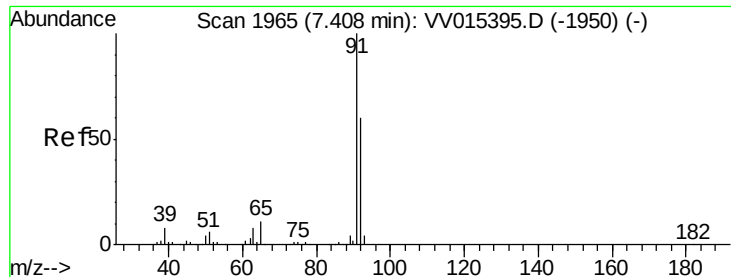
77 41.5 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#42

Toluene

Concen: 32.68 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

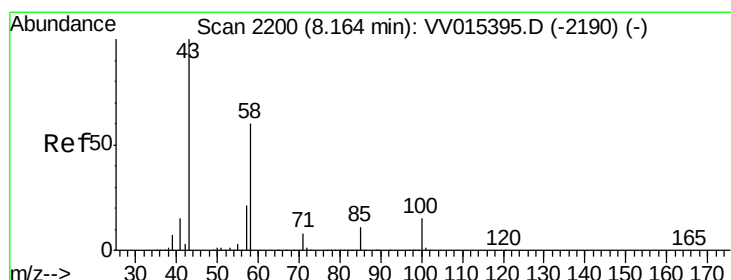
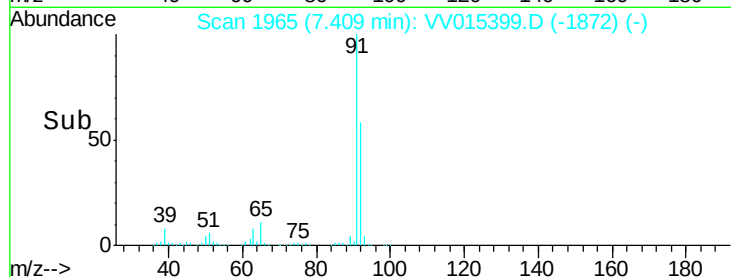
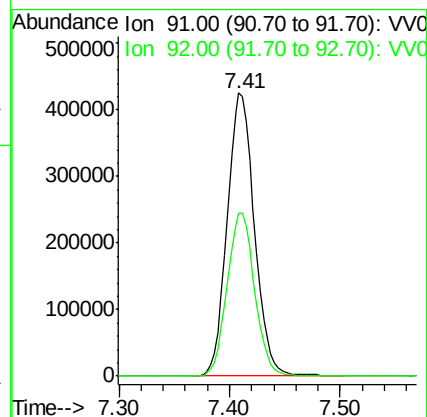
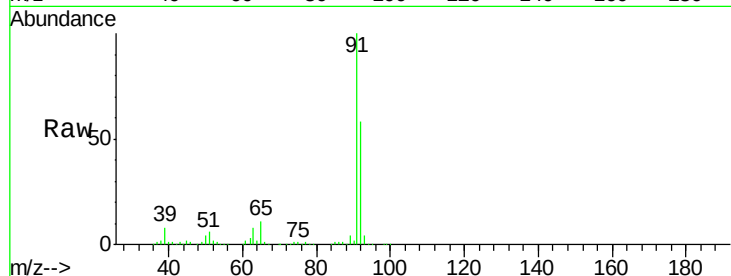
DBF07

Tgt Ion: 91 Resp: 727498

Ion Ratio Lower Upper

91 100

92 57.8 41.0 76.2



#48

2-Hexanone

Concen: 6.21 ug/L

RT: 8.11 min Scan# 2184

Delta R.T. -0.05 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Tgt Ion: 43 Resp: 32487

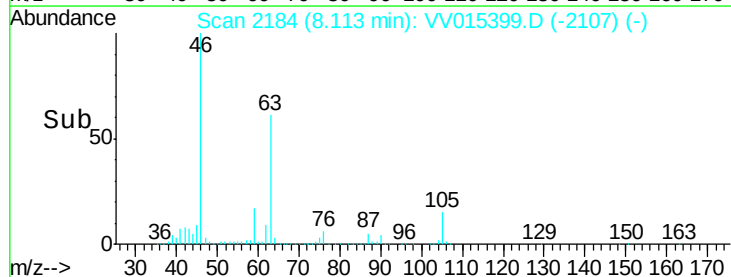
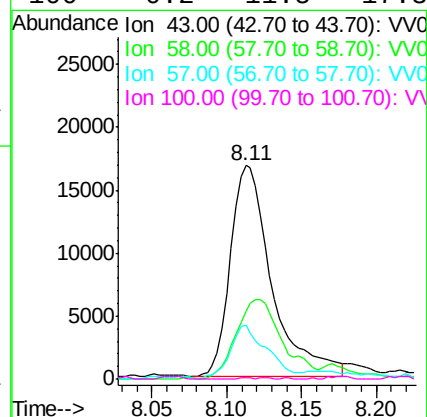
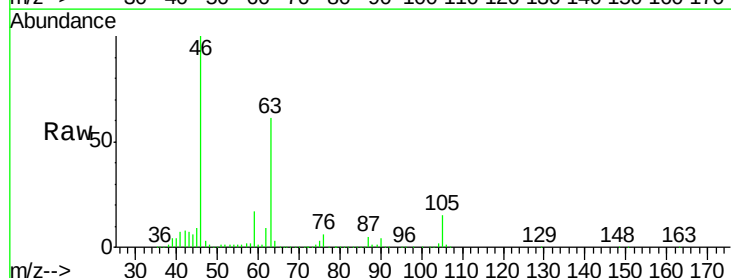
Ion Ratio Lower Upper

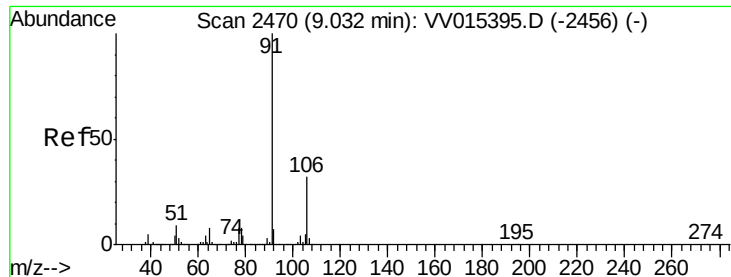
43 100

58 0.0 47.4 71.2#

57 22.6 16.7 25.1

100 0.2 11.5 17.3#





#52

Ethylbenzene

Concen: 36.04 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

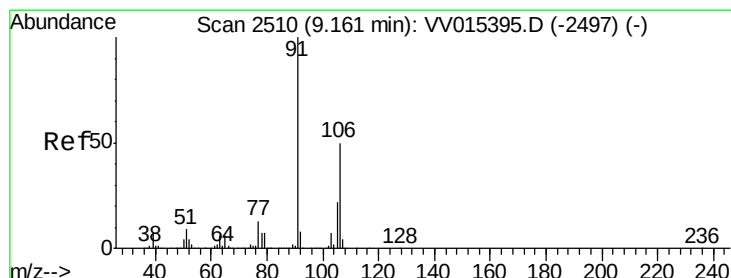
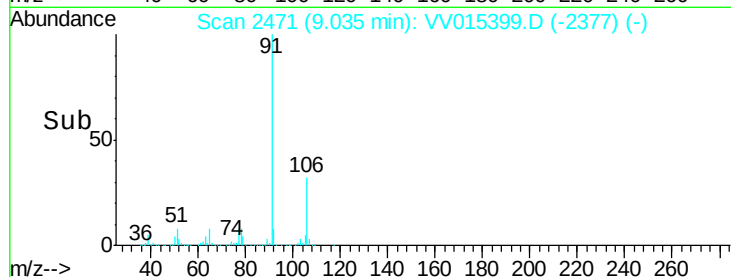
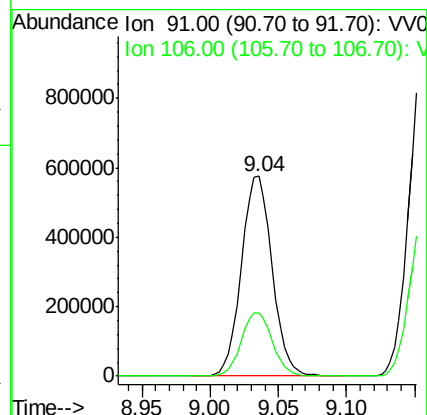
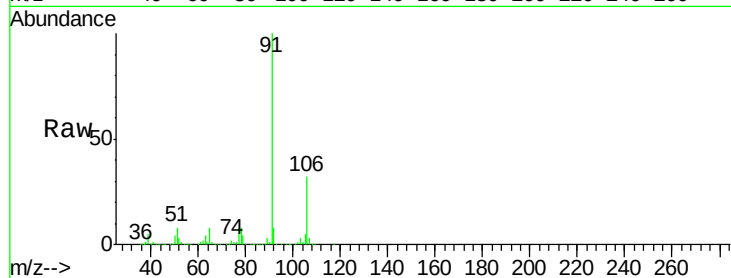
DBF07

Tgt Ion: 91 Resp: 900636

Ion Ratio Lower Upper

91 100

106 31.8 21.8 40.6



#53

m,p-Xylene

Concen: 80.68 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015399.D

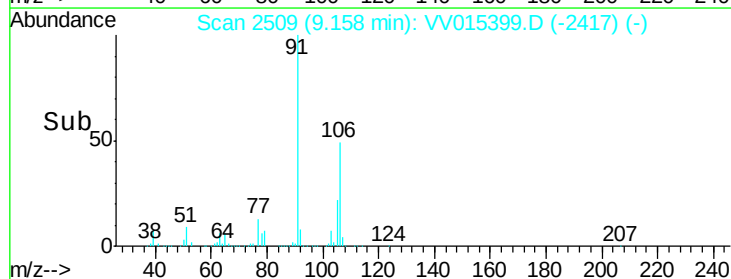
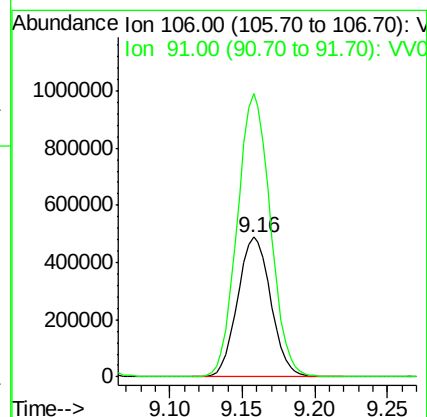
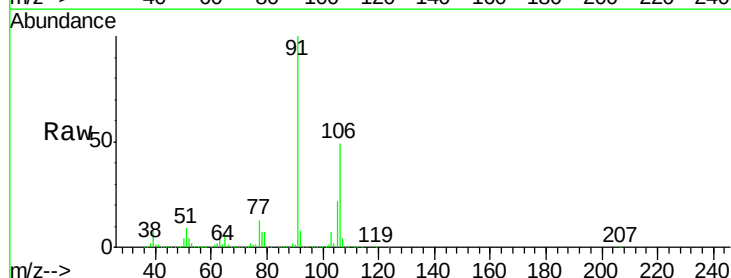
Acq: 03 Apr 2020 17:16

Tgt Ion: 106 Resp: 776372

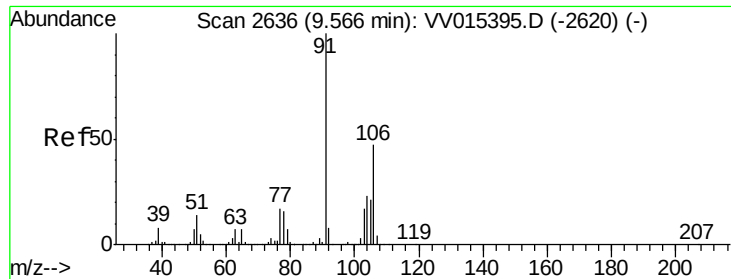
Ion Ratio Lower Upper

106 100

91 202.9 139.7 259.5







#54

o-xylene

Concen: 35.93 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

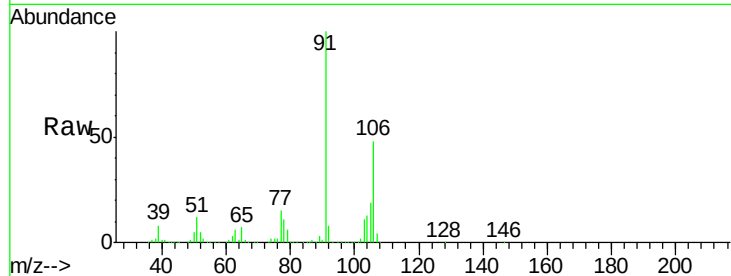
DBF07

Tgt Ion:106 Resp: 346360

Ion Ratio Lower Upper

106 100

91 208.1 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

500000

400000

300000

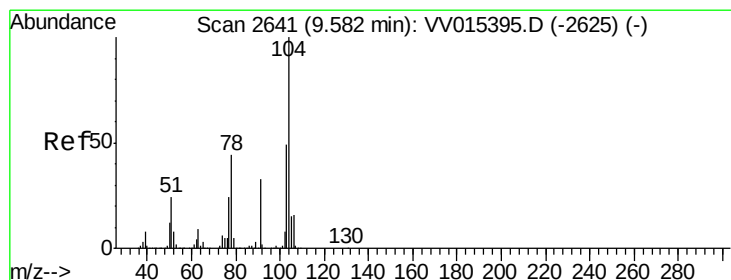
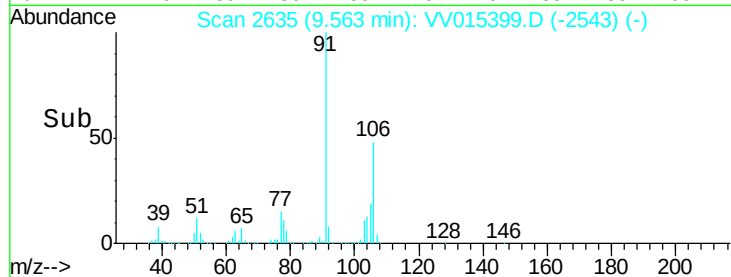
200000

100000

0

9.50 9.55 9.60 9.65

Time-->



#55

Styrene

Concen: 34.72 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV015399.D

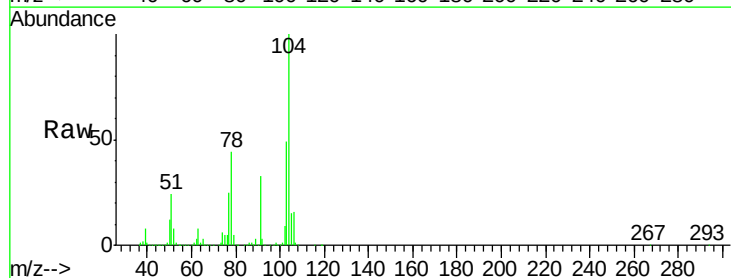
Acq: 03 Apr 2020 17:16

Tgt Ion:104 Resp: 556527

Ion Ratio Lower Upper

104 100

78 43.7 31.5 58.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

400000

300000

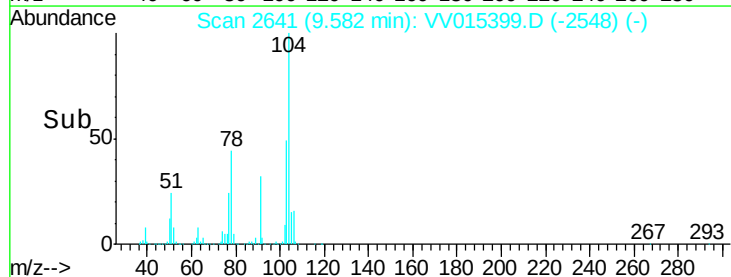
200000

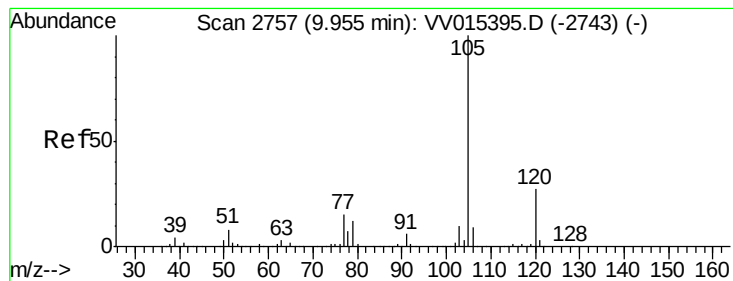
100000

0

9.50 9.55 9.60 9.65

Time-->





#56

Isopropylbenzene

Concen: 5.84 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

DBF07

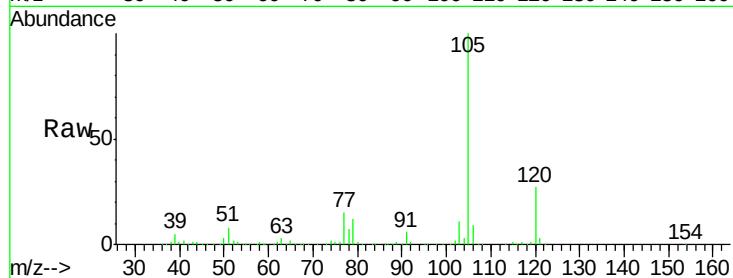
Tgt Ion:105 Resp: 145919

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.0

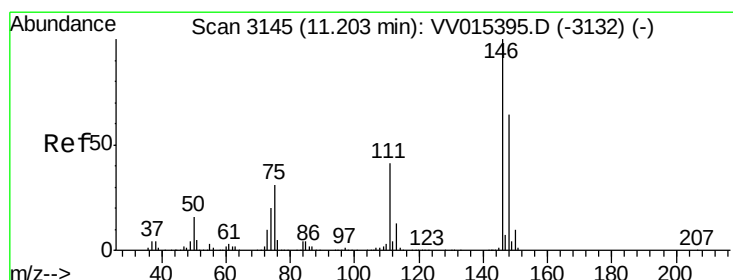
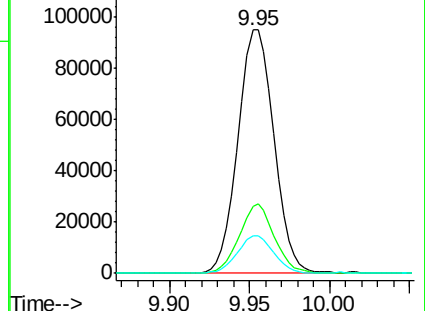
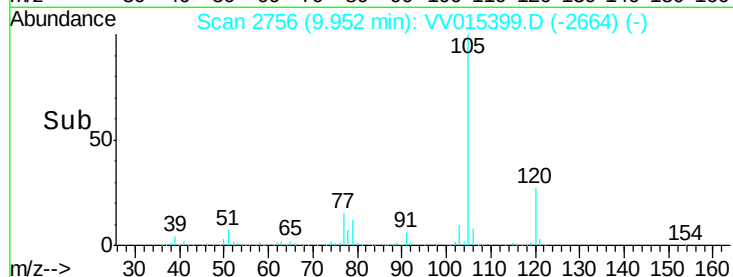
77 15.6 12.4 18.6



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



#62

1,3-Dichlorobenzene

Concen: 63.46 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

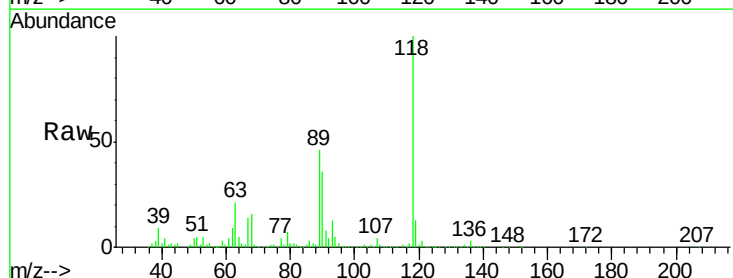
Tgt Ion:146 Resp: 626

Ion Ratio Lower Upper

146 100

111 64.9 30.2 56.2#

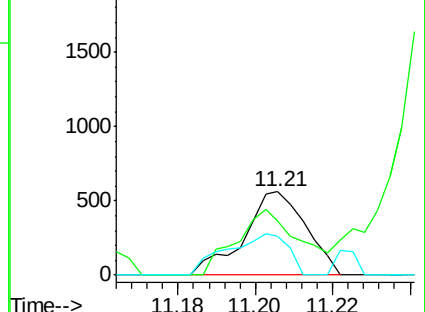
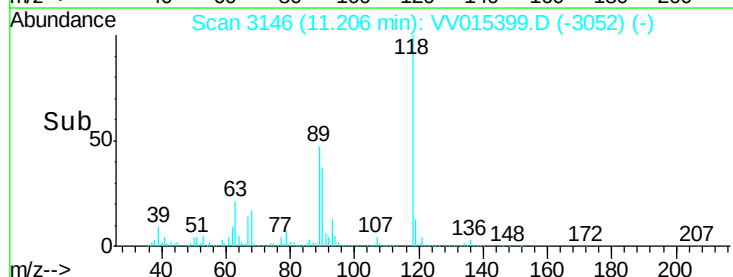
148 46.7 44.7 83.1

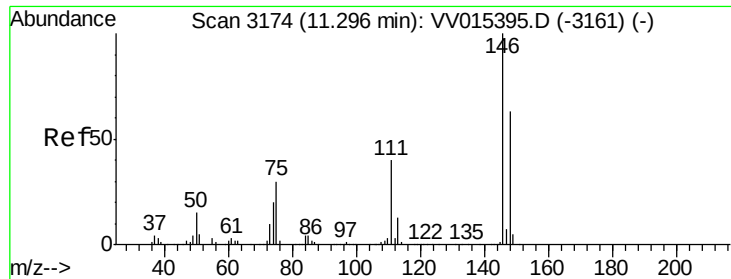


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

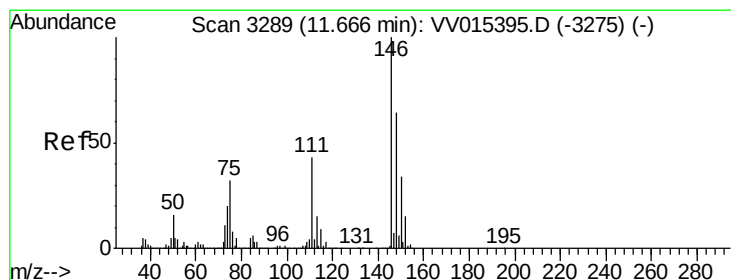
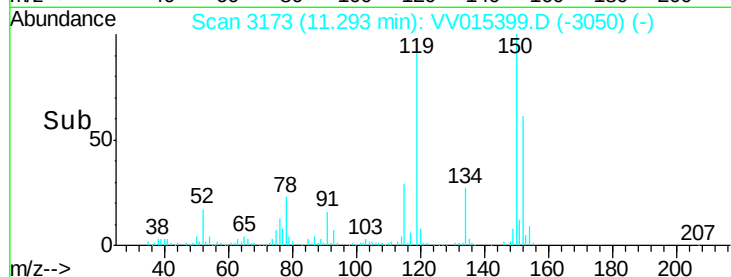
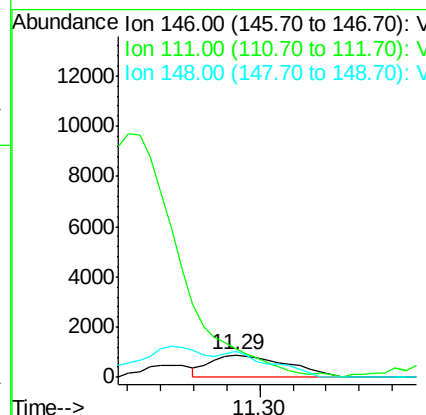
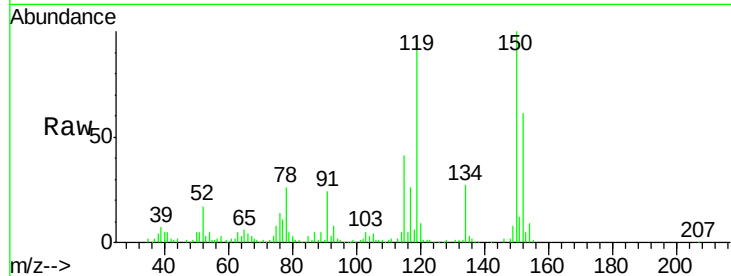




#63  
 1,4-Dichlorobenzene  
 Concen: 142.84 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV015399.D  
 Acq: 03 Apr 2020 17:16

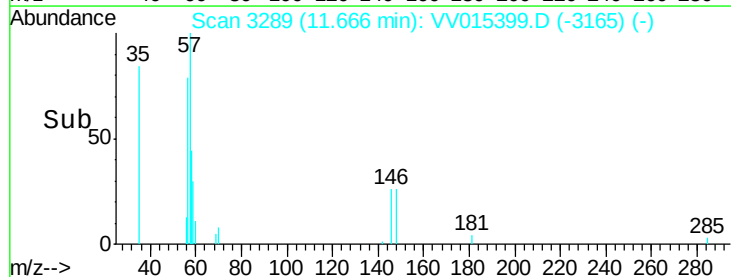
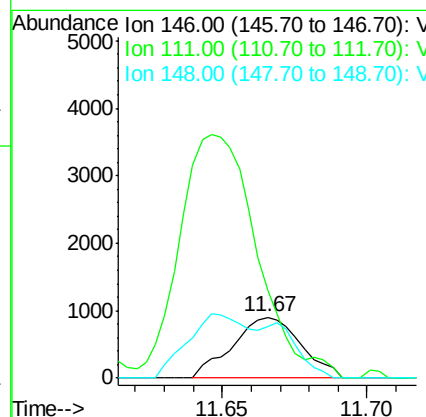
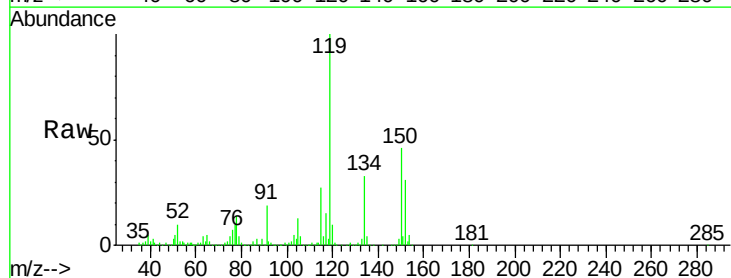
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBF07

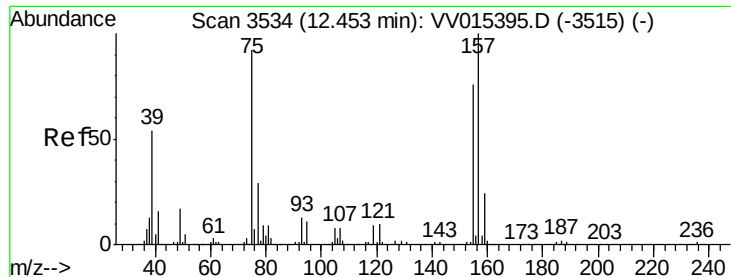
Tgt Ion:146 Resp: 1429  
 Ion Ratio Lower Upper  
 146 100  
 111 127.0 29.3 54.5#  
 148 114.0 44.7 82.9#



#65  
 1,2-Dichlorobenzene  
 Concen: 146.41 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015399.D  
 Acq: 03 Apr 2020 17:16

Tgt Ion:146 Resp: 1473  
 Ion Ratio Lower Upper  
 146 100  
 111 143.7 35.1 52.7#  
 148 85.2 51.0 76.4#

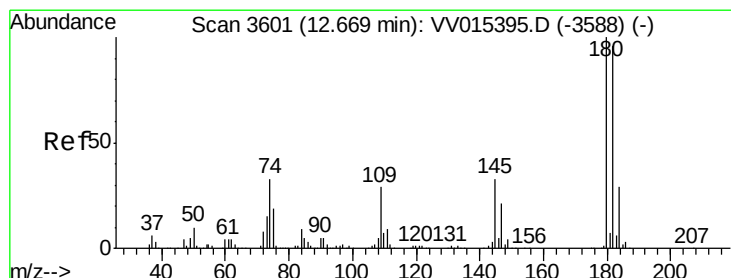
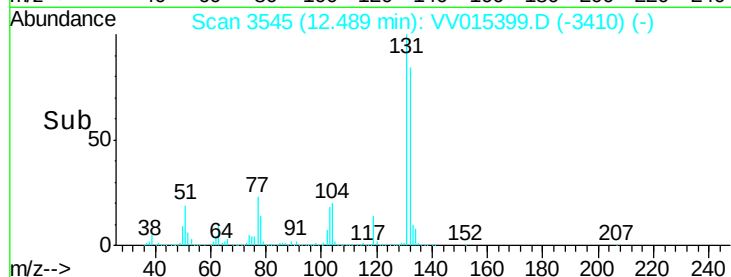
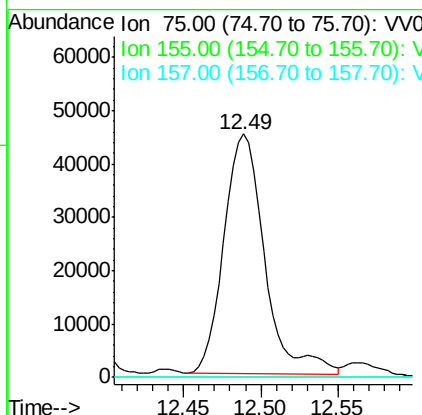
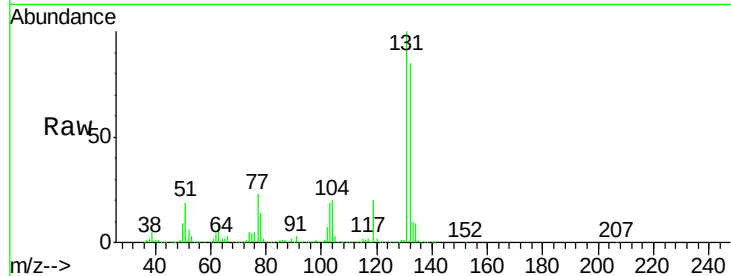




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 41587.63 ug/L  
 RT: 12.49 min Scan# 3545  
 Delta R.T. 0.04 min  
 Lab File: VV015399.D  
 Acq: 03 Apr 2020 17:16

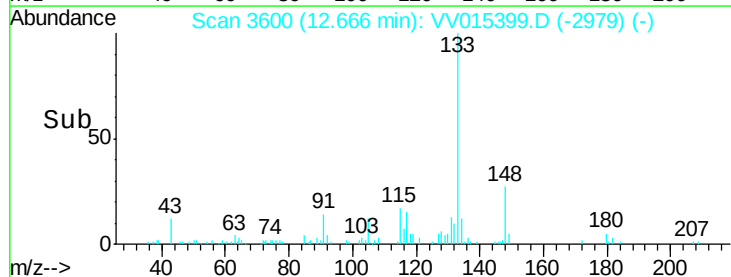
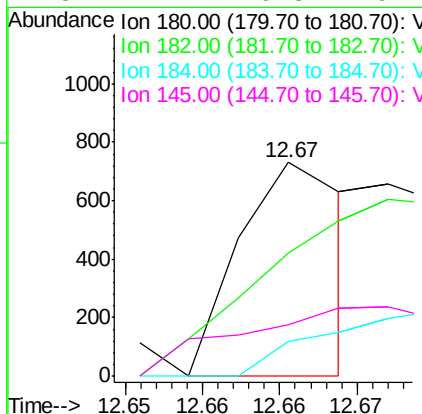
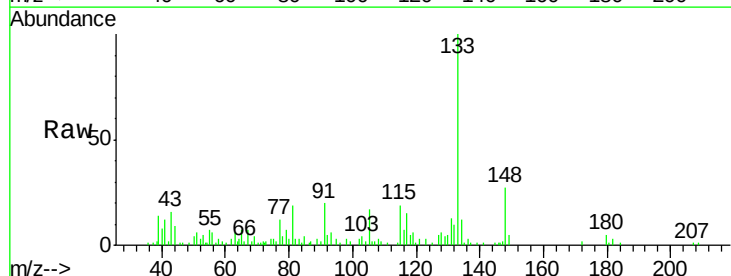
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBF07

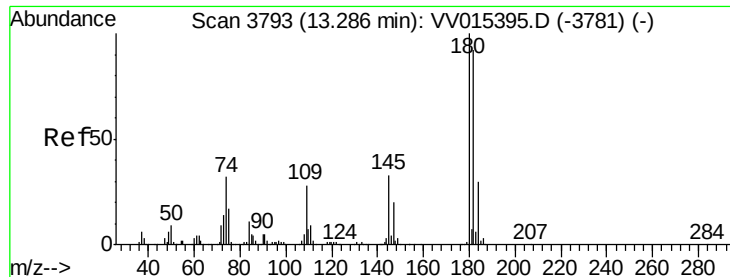
Tgt Ion: 75 Resp: 82618  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 64.5 96.7#  
 157 0.0 79.8 119.6#



#67  
 1,3,5-Trichlorobenzene  
 Concen: 54.30 ug/L  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV015399.D  
 Acq: 03 Apr 2020 17:16

Tgt Ion: 180 Resp: 355  
 Ion Ratio Lower Upper  
 180 100  
 182 255.5 74.7 112.1#  
 184 68.5 23.7 35.5#  
 145 74.4 26.8 40.2#





#68

1,2,4-trichlorobenzene

Concen: 228.43 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

Instrument :

MSVOA\_V

ClientSampleId :

DBF07

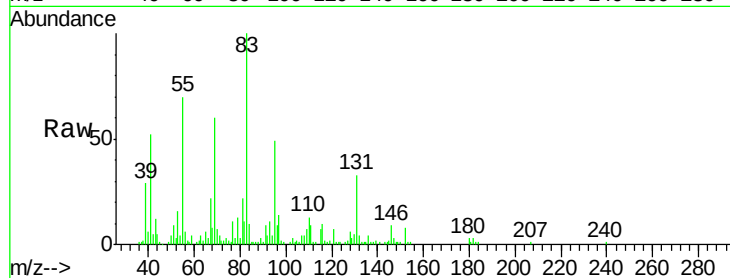
Tgt Ion:180 Resp: 1364

Ion Ratio Lower Upper

180 100

182 111.9 75.8 113.8

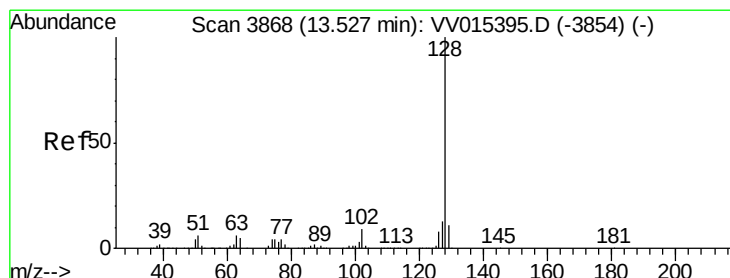
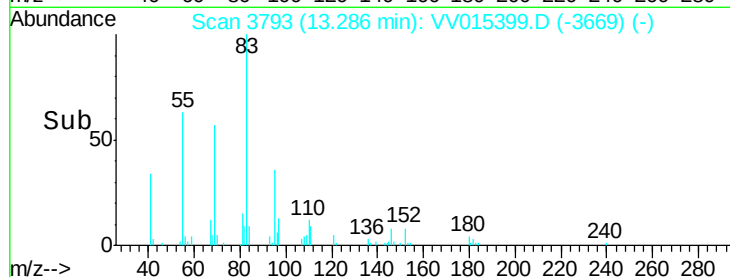
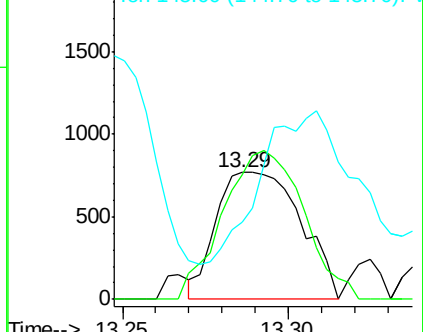
145 57.0 27.7 41.5#



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



#69

Naphthalene

Concen: 168.69 ug/L

RT: 13.42 min Scan# 3834

Delta R.T. -0.11 min

Lab File: VV015399.D

Acq: 03 Apr 2020 17:16

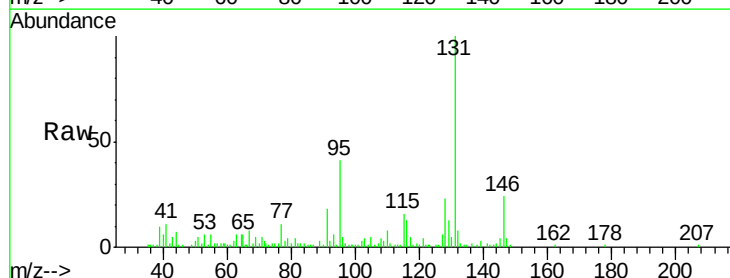
Tgt Ion:128 Resp: 3851

Ion Ratio Lower Upper

128 100

127 27.5 10.3 15.5#

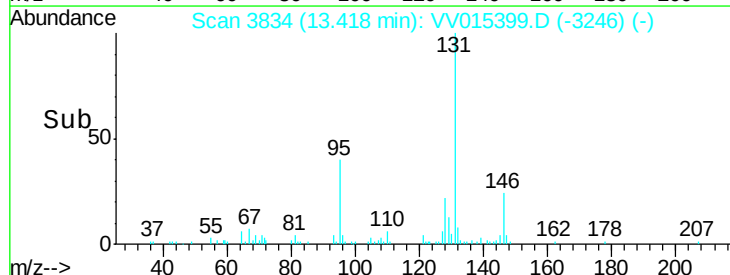
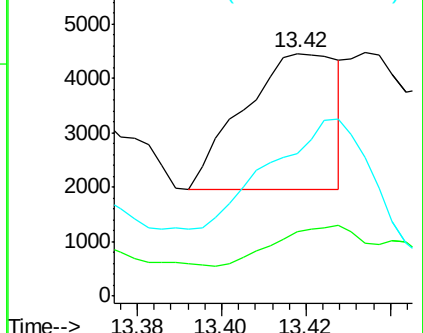
129 112.8 8.6 13.0#

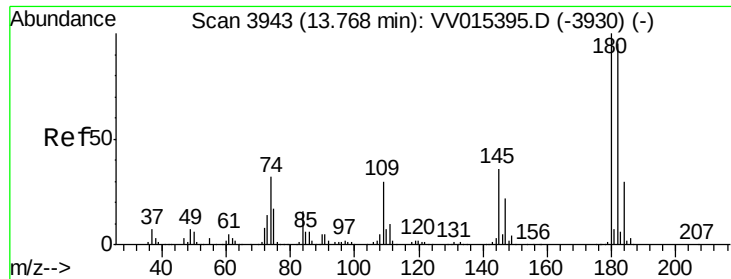


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

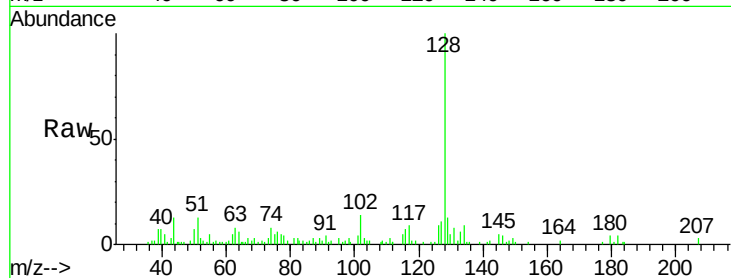




#70  
 1,2,3-Trichlorobenzene  
 Concen: 155.10 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015399.D  
 Acq: 03 Apr 2020 17:16

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DBF07

Tgt Ion:180 Resp: 954  
 Ion Ratio Lower Upper  
 180 100  
 182 50.1 76.1 114.1#  
 145 1478.3 28.2 42.4#



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

