

Data File : VV012930.D  
Acq On : 23 Sep 2019 11:00  
Operator : SY/MD  
Sample : VSTD02503  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

Quant Time: Sep 23 11:22:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM092319S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 23 11:20:02 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 722859   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 721689   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 390255   | 25.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 283416  | 27.69 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 230224  | 27.32 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 471978  | 27.50 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 218605  | 62.68 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 484516  | 28.20 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 283235  | 29.41 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 1006875 | 27.41 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 306167  | 27.30 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 948802  | 28.45 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.66  | 79  | 134116  | 28.73 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.13  | 63  | 140855  | 65.74 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 305470  | 29.56 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 363925  | 27.09 | ug/L | 0.00 |

Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 248656  | 31.078 | ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 297049  | 28.446 | ug/L | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 296654  | 28.576 | ug/L | 100    |
| 6) Bromomethane                | 1.54 | 94  | 180035  | 28.464 | ug/L | 100    |
| 8) Chloroethane                | 1.60 | 64  | 183303  | 28.216 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 389170  | 28.271 | ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 242572  | 27.975 | ug/L | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 224762  | 27.470 | ug/L | 100    |
| 13) Acetone                    | 2.22 | 43  | 253417  | 56.298 | ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 730180  | 28.039 | ug/L | 100    |
| 15) Methyl Acetate             | 2.47 | 43  | 191029  | 31.853 | ug/L | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 279730  | 17.058 | ug/L | 100    |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 657483  | 29.445 | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 260508  | 27.297 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 476052  | 27.687 | ug/L | 100    |
| 21) 2-Butanone                 | 4.04 | 43  | 292100  | 56.661 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 284431  | 28.144 | ug/L | 100    |
| 23) Bromochloromethane         | 4.30 | 128 | 140258  | 29.472 | ug/L | 100    |
| 25) Chloroform                 | 4.42 | 83  | 488446  | 28.129 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 354619  | 29.285 | ug/L | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 436959  | 26.074 | ug/L | 100    |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 386164  | 26.366 | ug/L | 100    |
| 32) Carbon tetrachloride       | 4.87 | 117 | 348717  | 26.622 | ug/L | 100    |
| 34) Benzene                    | 5.14 | 78  | 1104910 | 27.119 | ug/L | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 299517  | 27.031 | ug/L | 100    |
| 36) Methylcyclohexane          | 6.18 | 83  | 485284  | 26.889 | ug/L | 100    |
| 40) 1,2-Dichloropropane        | 6.22 | 63  | 284012  | 27.941 | ug/L | 100    |
| 41) Bromodichloromethane       | 6.55 | 83  | 357355  | 27.782 | ug/L | 100    |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 424919  | 28.090 | ug/L | 100    |
| 43) 4-Methyl-2-pentanone       | 7.27 | 43  | 513318  | 61.840 | ug/L | 100    |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

Quant Time: Sep 23 11:22:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM092319S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 23 11:20:02 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) Toluene                    | 7.43  | 91   | 1198457  | 27.825 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 353882   | 28.424 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 240605   | 28.772 | ug/L  | 100      |
| 47) Tetrachloroethene          | 8.02  | 164  | 243919   | 26.967 | ug/L  | 100      |
| 49) 2-Hexanone                 | 8.19  | 43   | 406280   | 60.213 | ug/L  | 100      |
| 50) Dibromochloromethane       | 8.29  | 129  | 276292   | 29.136 | ug/L  | 100      |
| 51) 1,2-Dibromoethane          | 8.39  | 107  | 240815   | 29.219 | ug/L  | 100      |
| 52) Chlorobenzene              | 8.92  | 112  | 777591   | 26.978 | ug/L  | 100      |
| 53) Ethylbenzene               | 9.05  | 91   | 1300711  | 27.222 | ug/L  | 100      |
| 54) m,p-Xylene                 | 9.18  | 106  | 503595   | 27.868 | ug/L  | 100      |
| 55) o-xylene                   | 9.59  | 106  | 476783   | 27.999 | ug/L  | 100      |
| 56) Styrene                    | 9.60  | 104  | 853569   | 28.921 | ug/L  | 100      |
| 57) Isopropylbenzene           | 9.97  | 105  | 1268241  | 27.895 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 304455   | 28.777 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 254835   | 29.859 | ug/L  | 100      |
| 62) Bromoform                  | 9.77  | 173  | 179363   | 29.108 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 11.22 | 146  | 644107   | 26.979 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene        | 11.31 | 146  | 656737   | 26.482 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 615849   | 27.443 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 57919    | 29.968 | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 498868   | 26.332 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 433869   | 26.401 | ug/L  | 100      |
| 69) Naphthalene                | 13.55 | 128  | 957198   | 28.776 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 428415   | 26.811 | ug/L  | 100      |

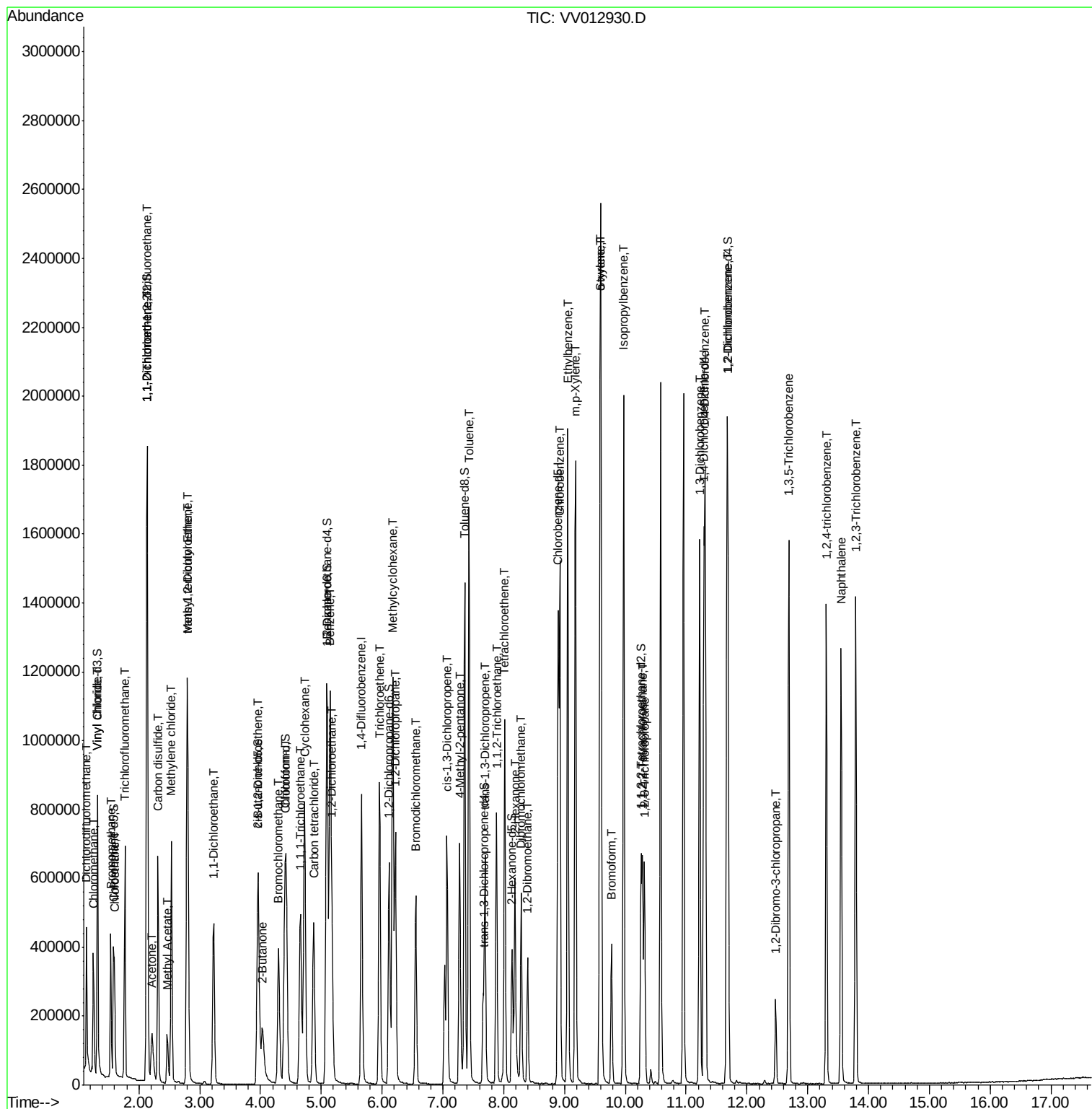
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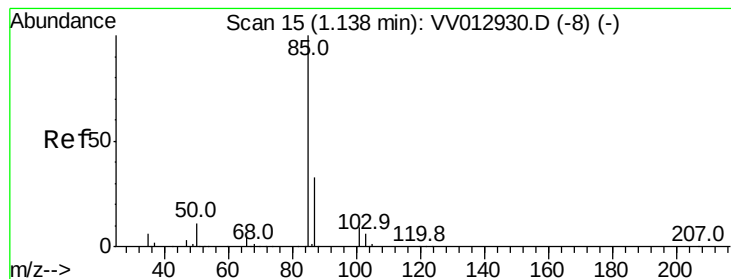
Data File : VV012930.D

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ALS Vial     : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD02563

Quant Time: Sep 23 11:22:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A\_V\METHOD\SOM2VLM092319S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 23 11:20:02 2019  
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#2

Dichlorodifluoromethane

Concen: 31.078 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

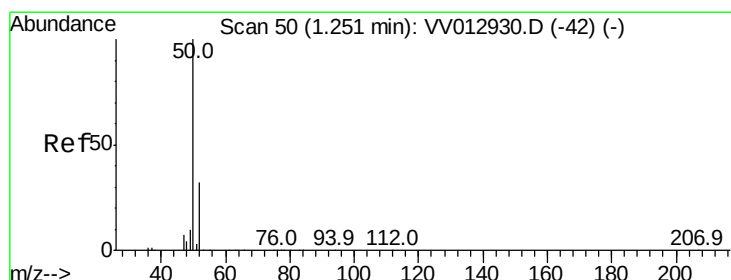
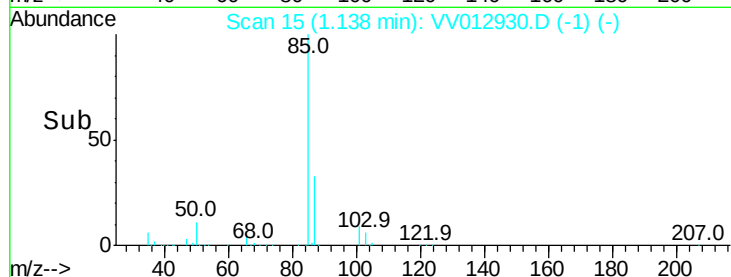
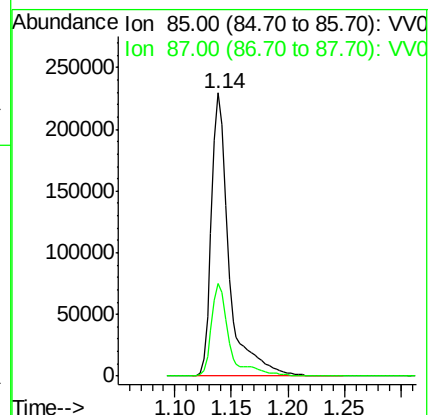
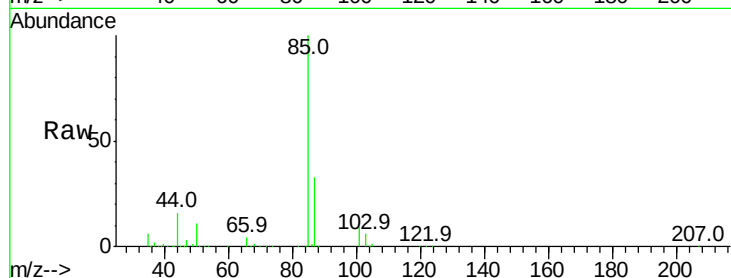
VSTD02563

Tgt Ion: 85 Resp: 248656

Ion Ratio Lower Upper

85 100

87 33.1 23.2 43.0



#3

Chloromethane

Concen: 28.446 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012930.D

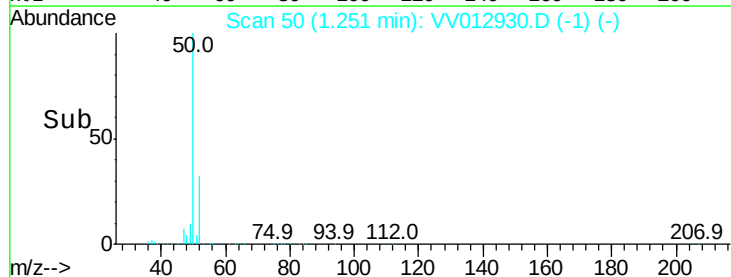
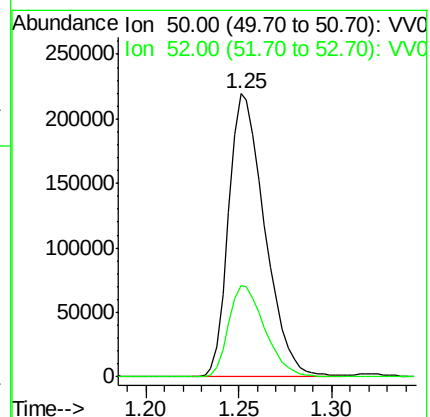
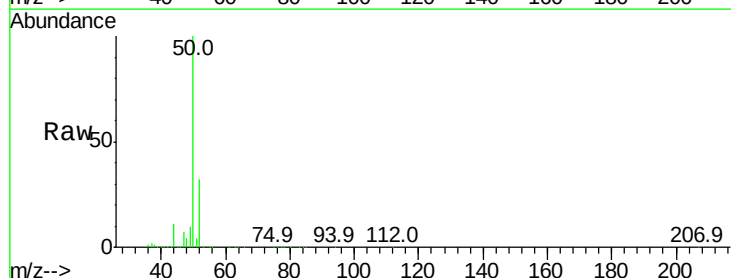
Acq: 23 Sep 2019 11:00

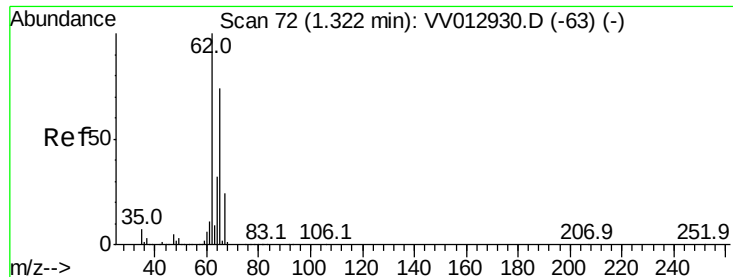
Tgt Ion: 50 Resp: 297049

Ion Ratio Lower Upper

50 100

52 32.4 22.7 42.1





#5

Vinyl chloride

Concen: 28.576 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

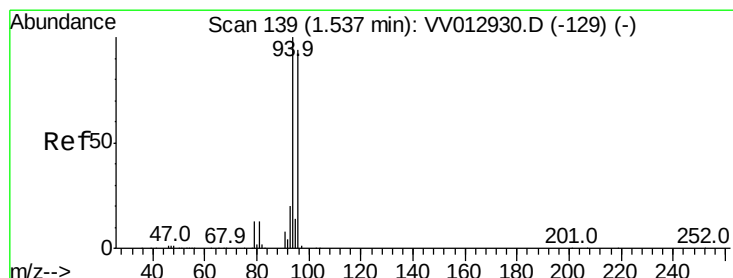
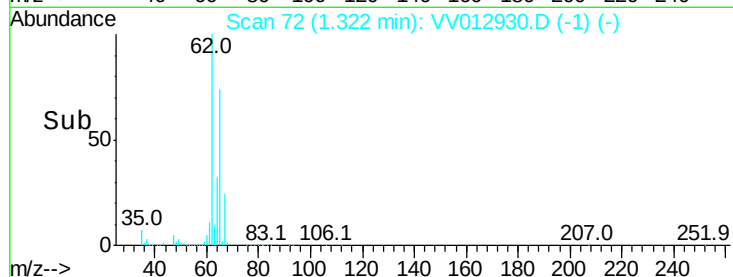
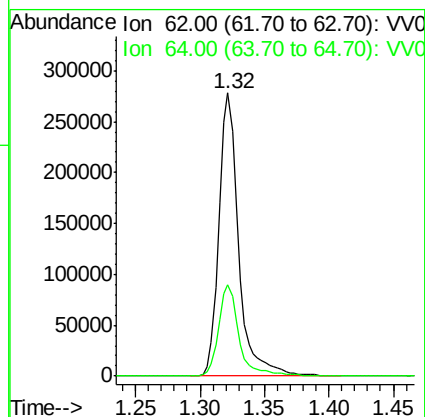
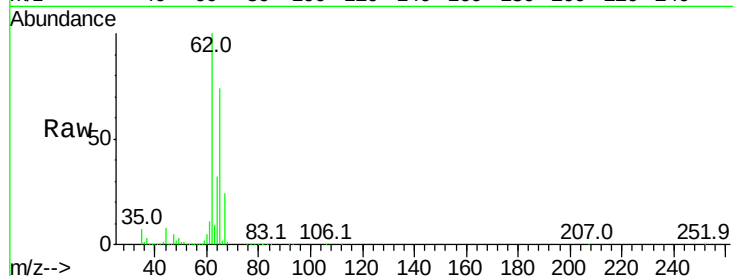
VSTD02563

Tgt Ion: 62 Resp: 296654

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



#6

Bromomethane

Concen: 28.464 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012930.D

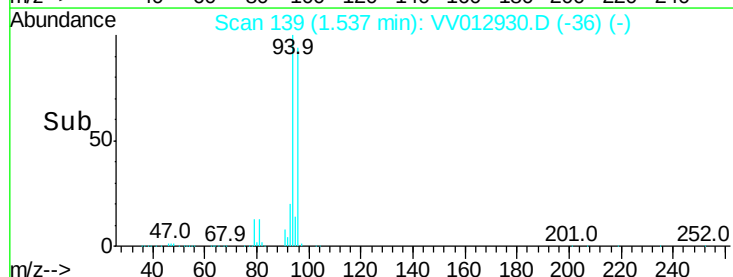
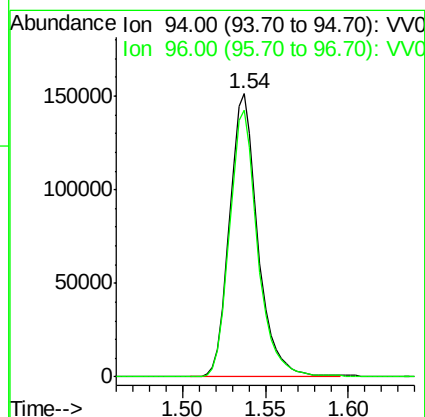
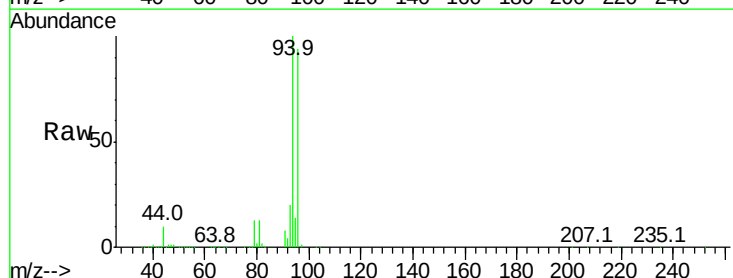
Acq: 23 Sep 2019 11:00

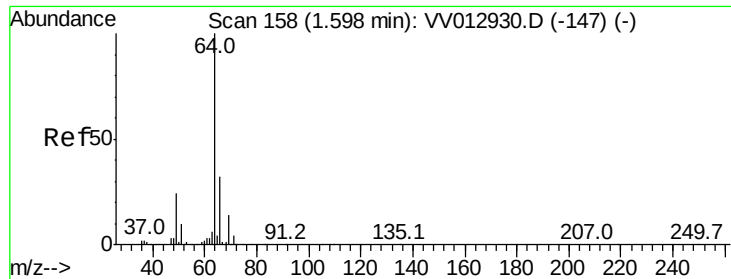
Tgt Ion: 94 Resp: 180035

Ion Ratio Lower Upper

94 100

96 93.6 9.4 177.8





#8

Chloroethane

Concen: 28.216 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

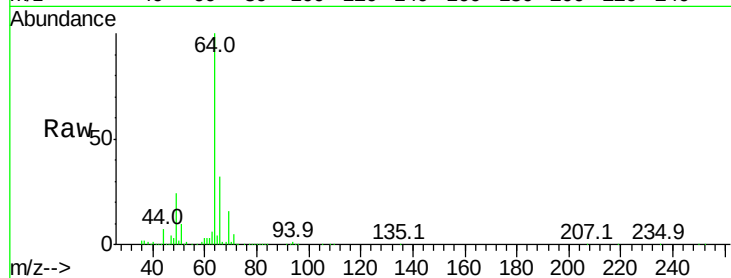
VSTD02563

Tgt Ion: 64 Resp: 183303

Ion Ratio Lower Upper

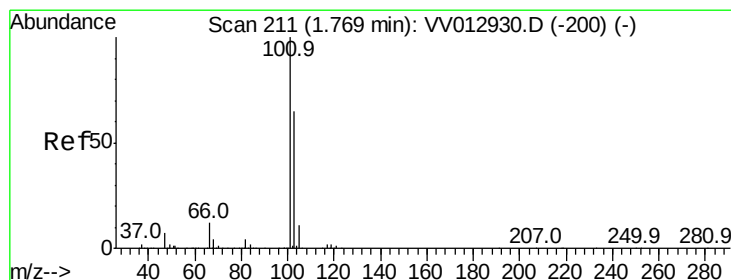
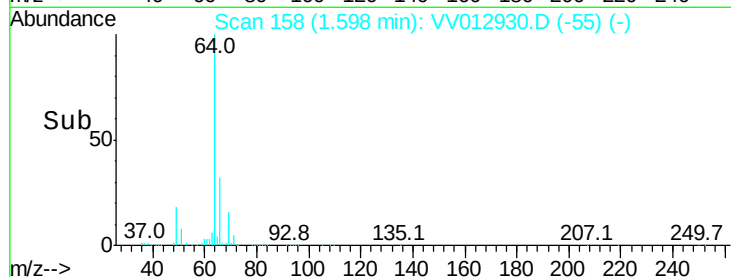
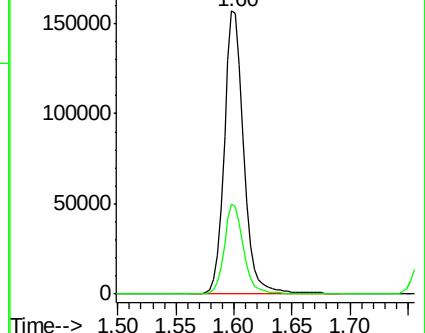
64 100

66 31.7 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV012930.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV012930.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 28.271 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012930.D

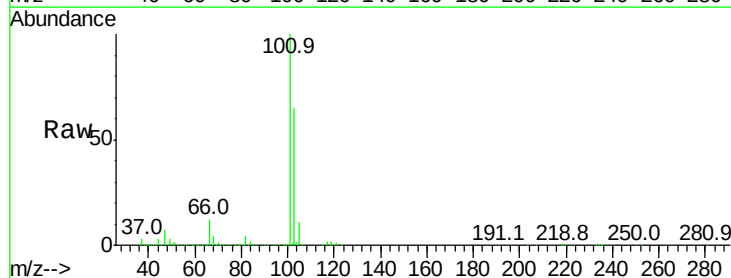
Acq: 23 Sep 2019 11:00

Tgt Ion: 101 Resp: 389170

Ion Ratio Lower Upper

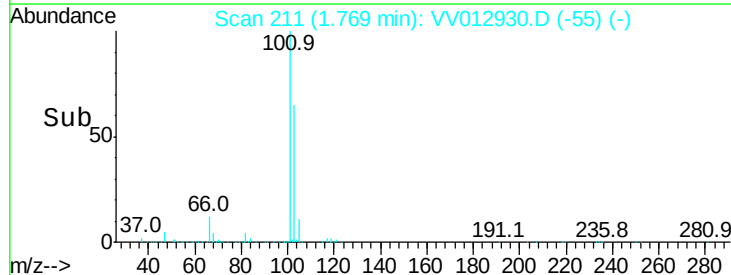
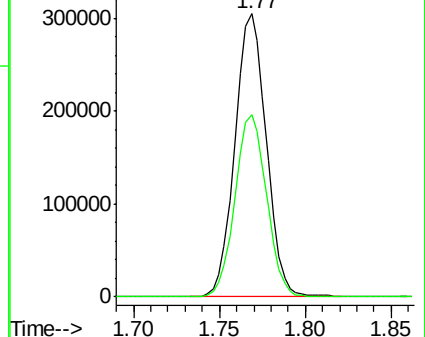
101 100

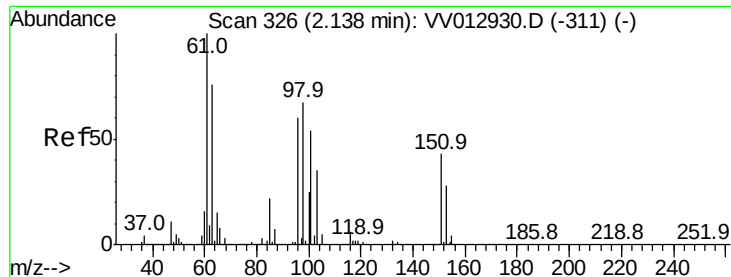
103 64.5 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV012930.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012930.D (-200) (-)





#11

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

Concen: 27.975 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

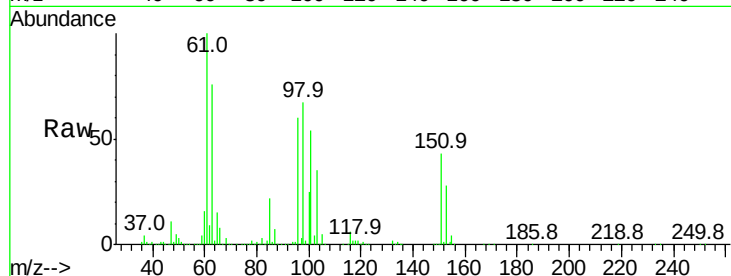
Tgt Ion: 101 Resp: 242572

Ion Ratio Lower Upper

101 100

85 40.8 32.6 49.0

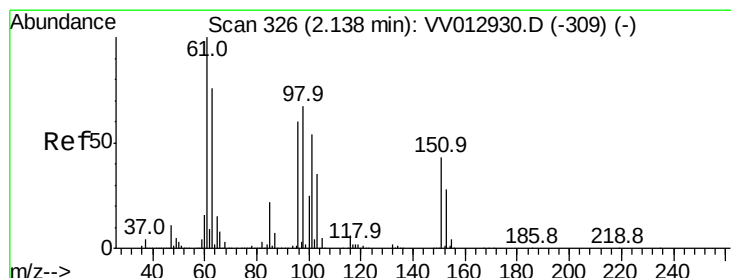
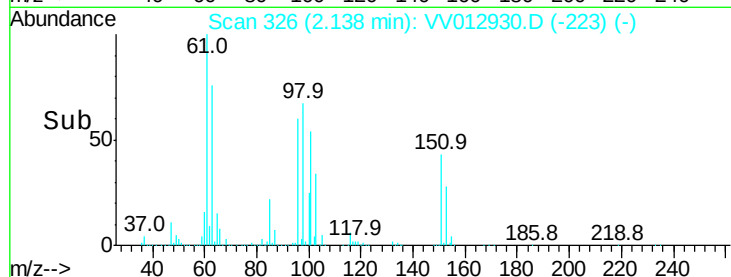
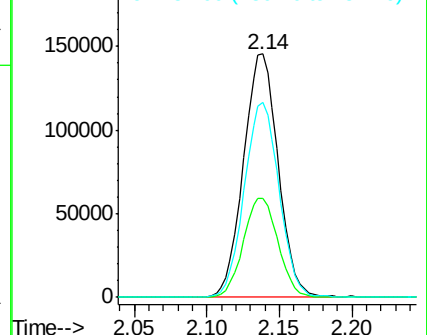
151 80.3 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV012930.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV012930.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV012930.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 27.470 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

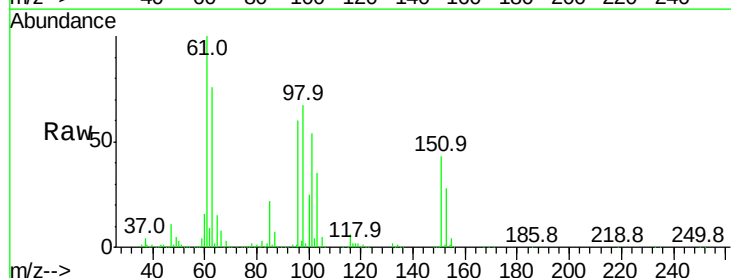
Tgt Ion: 96 Resp: 224762

Ion Ratio Lower Upper

96 100

61 167.5 117.2 217.8

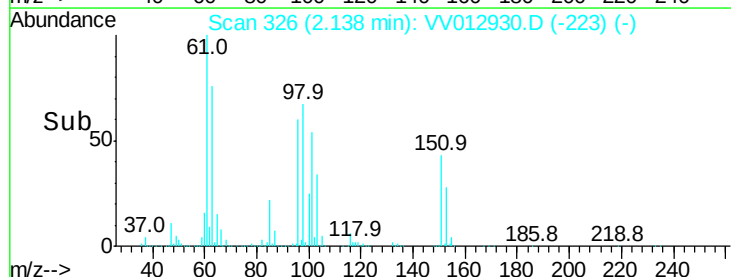
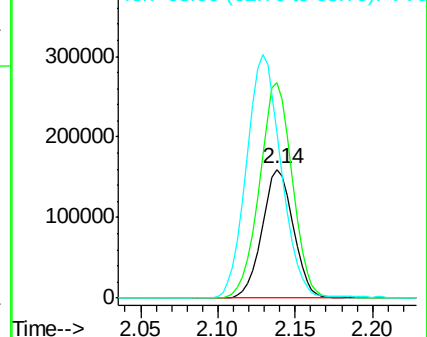
63 128.0 89.6 166.4

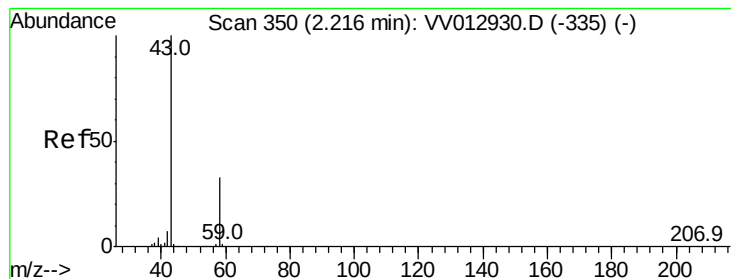


Abundance Ion 96.00 (95.70 to 96.70): VV012930.D (-309) (-)

Ion 61.00 (60.70 to 61.70): VV012930.D (-309) (-)

Ion 63.00 (62.70 to 63.70): VV012930.D (-309) (-)





#13

Acetone

Concen: 56.298 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

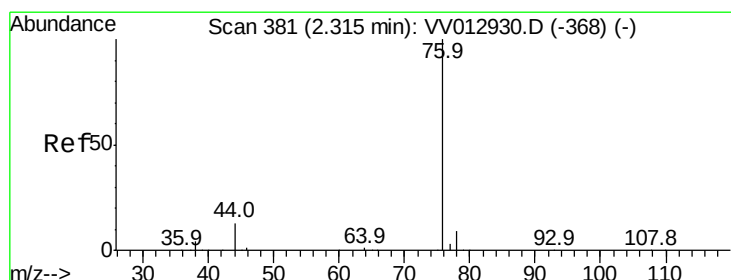
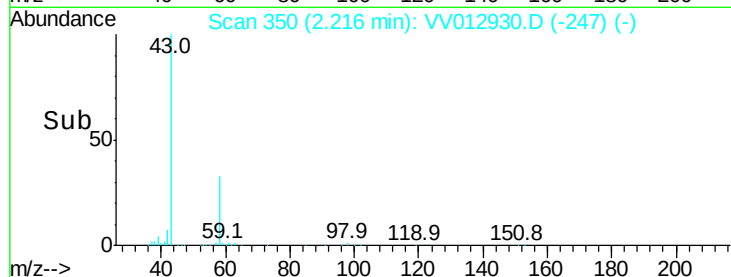
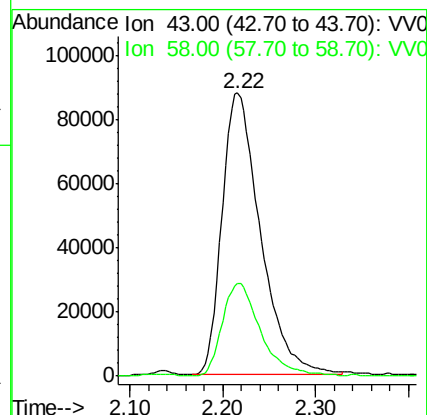
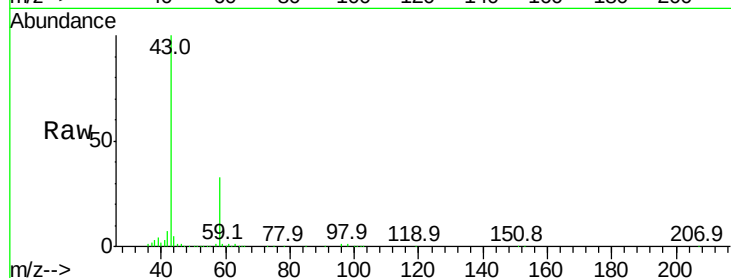
VSTD02563

Tgt Ion: 43 Resp: 253417

Ion Ratio Lower Upper

43 100

58 32.5 0.0 65.0



#14

Carbon disulfide

Concen: 28.039 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012930.D

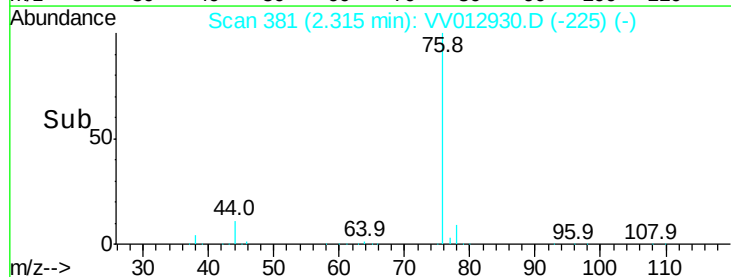
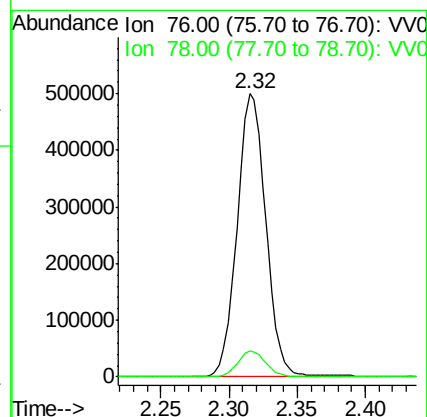
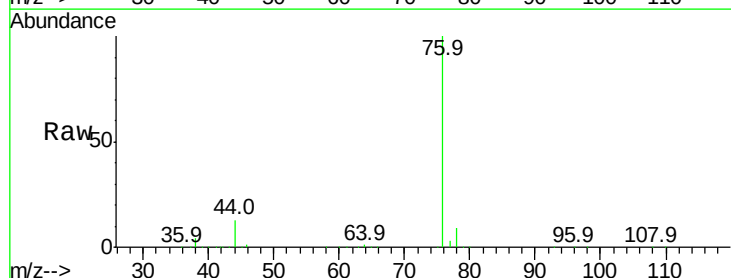
Acq: 23 Sep 2019 11:00

Tgt Ion: 76 Resp: 730180

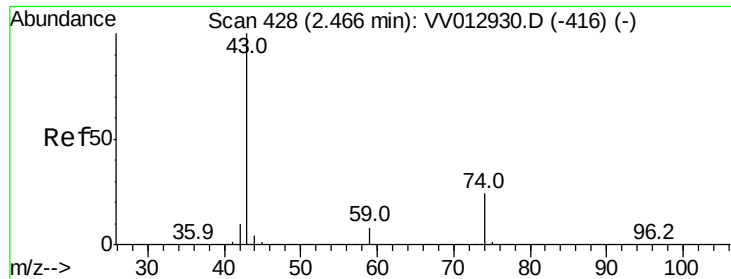
Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9







#15

Methyl Acetate

Concen: 31.853 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

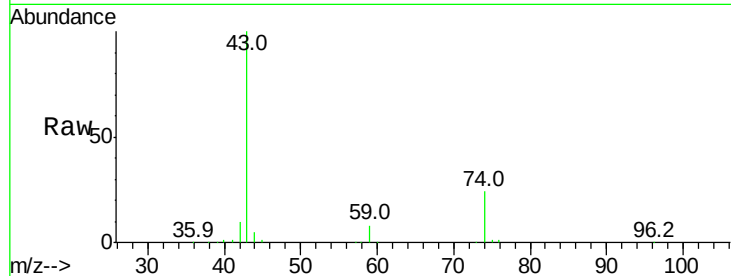
VSTD02563

Tgt Ion: 43 Resp: 191029

Ion Ratio Lower Upper

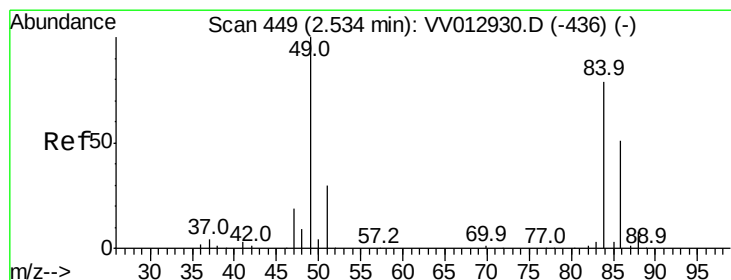
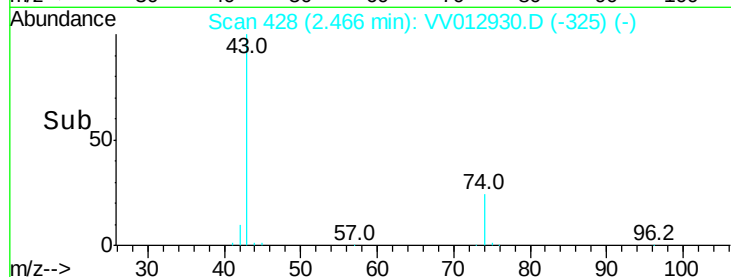
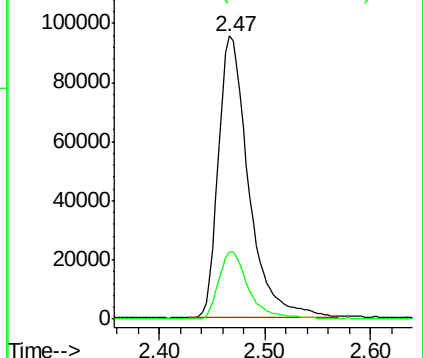
43 100

74 23.5 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 17.058 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

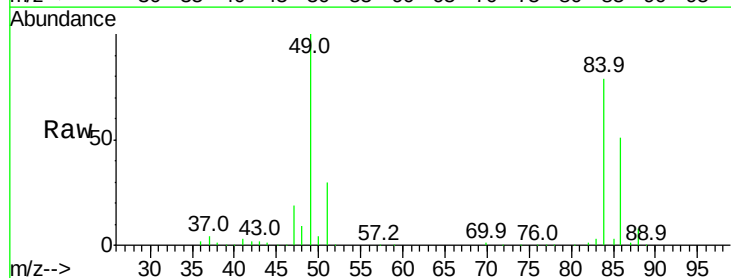
Tgt Ion: 84 Resp: 279730

Ion Ratio Lower Upper

84 100

49 126.2 88.3 164.1

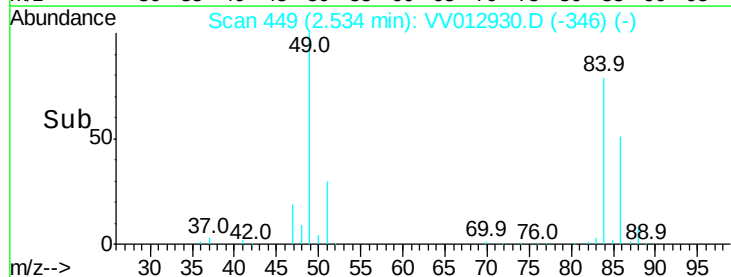
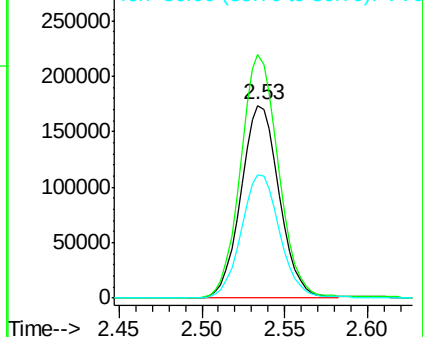
86 64.1 44.9 83.3

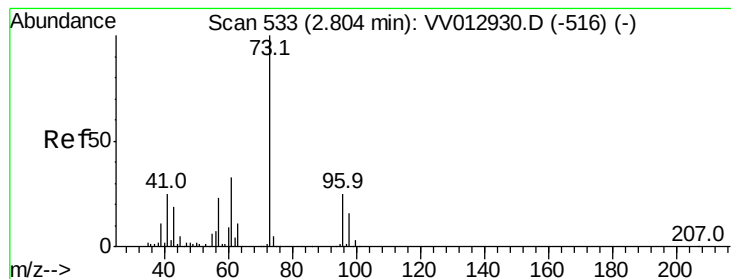


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#17

Methyl tert-butyl Ether

Concen: 29.445 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

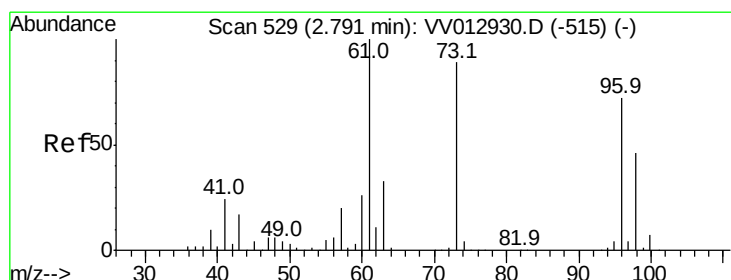
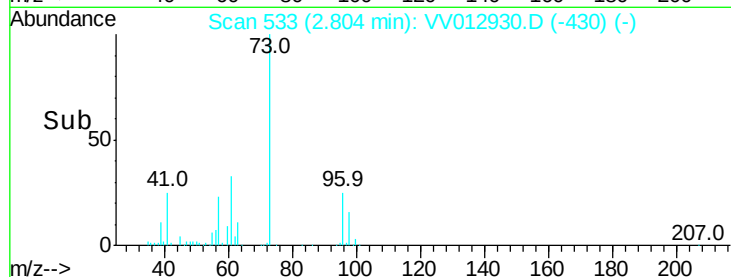
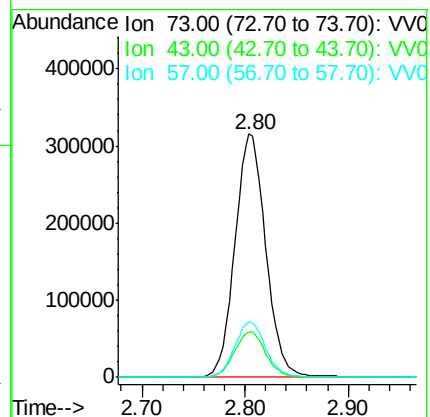
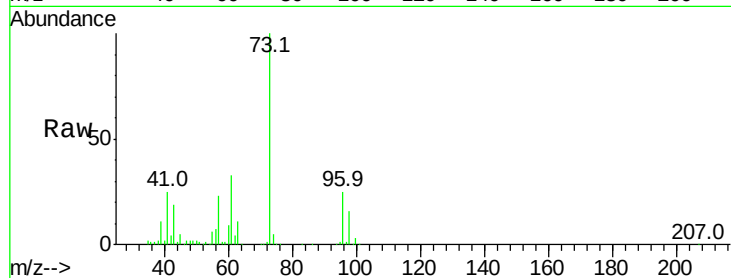
Tgt Ion: 73 Resp: 657483

Ion Ratio Lower Upper

73 100

43 18.8 15.0 22.6

57 22.9 18.3 27.5



#18

trans-1,2-Dichloroethene

Concen: 27.297 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

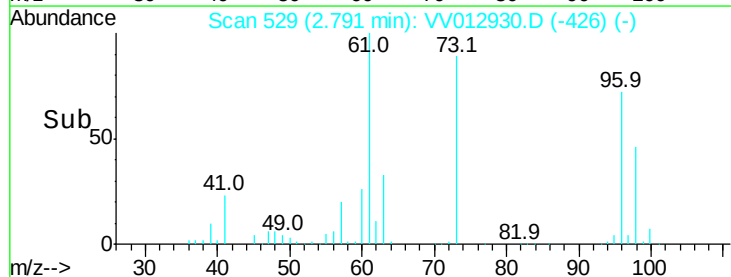
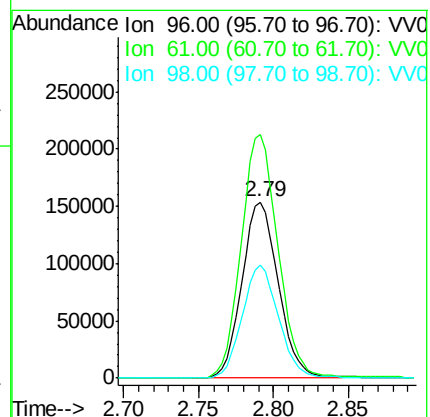
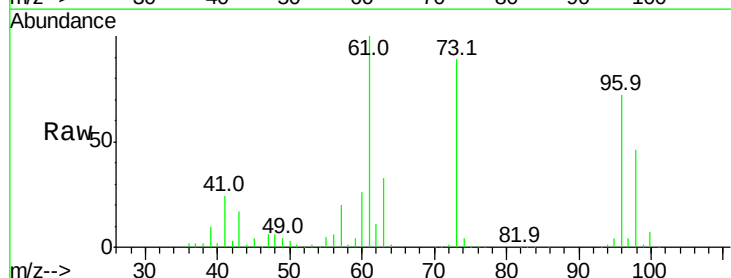
Tgt Ion: 96 Resp: 260508

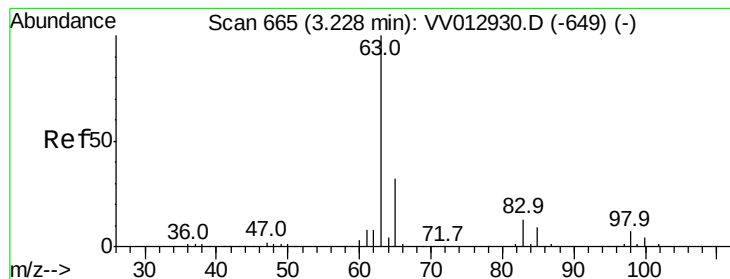
Ion Ratio Lower Upper

96 100

61 138.3 96.8 179.8

98 64.0 44.8 83.2





#19

1,1-Dichloroethane

Concen: 27.687 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

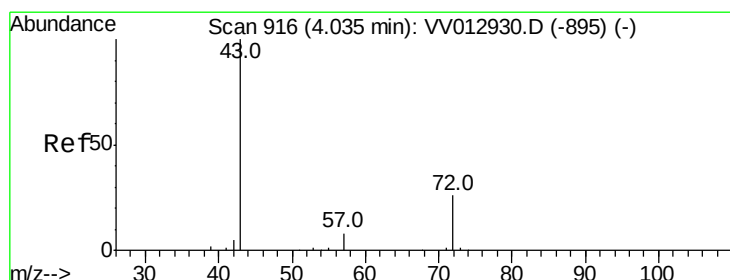
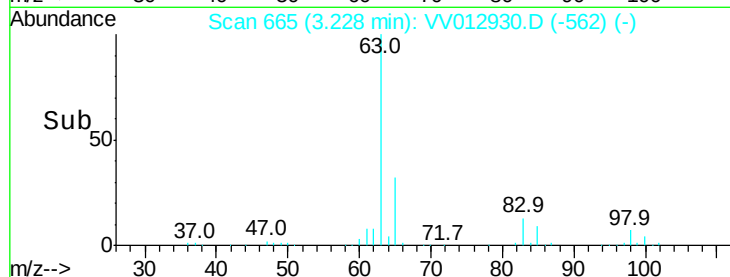
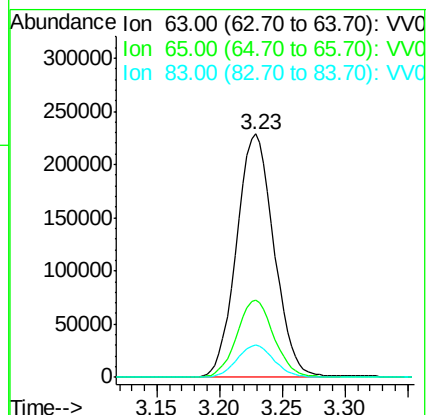
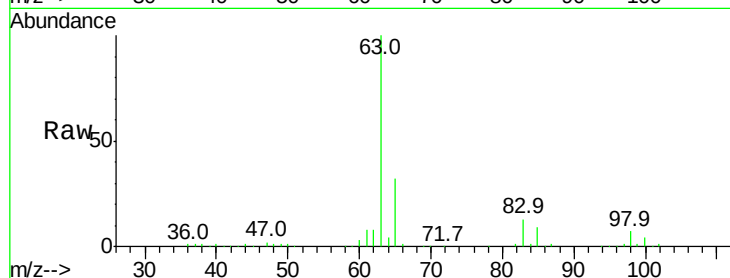
Tgt Ion: 63 Resp: 476052

Ion Ratio Lower Upper

63 100

65 31.5 22.0 41.0

83 13.1 9.2 17.0



#21

2-Butanone

Concen: 56.661 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.00 min

Lab File: VV012930.D

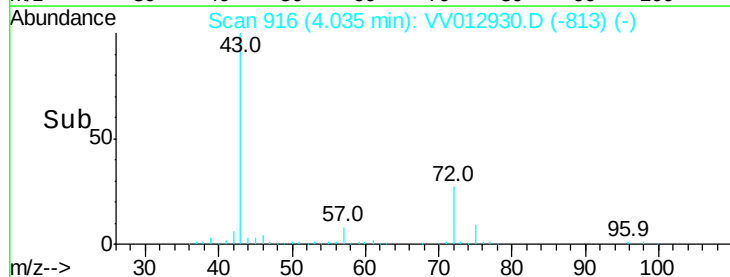
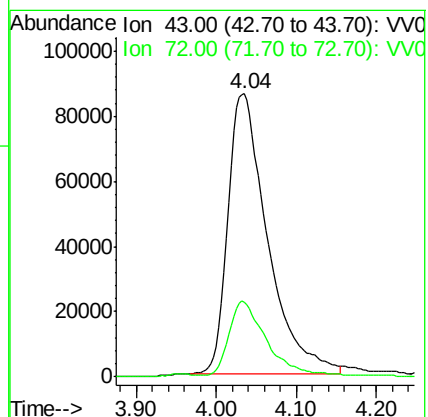
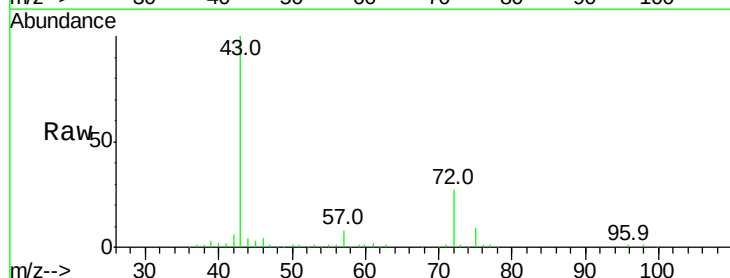
Acq: 23 Sep 2019 11:00

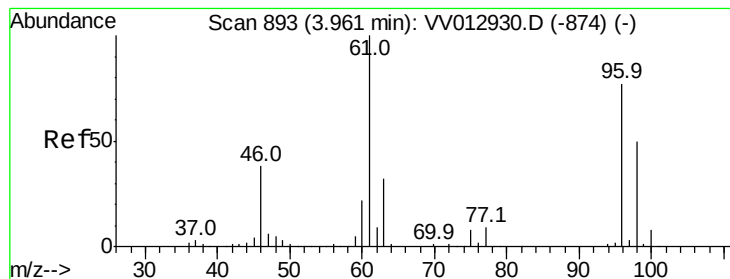
Tgt Ion: 43 Resp: 292100

Ion Ratio Lower Upper

43 100

72 23.9 11.9 35.9



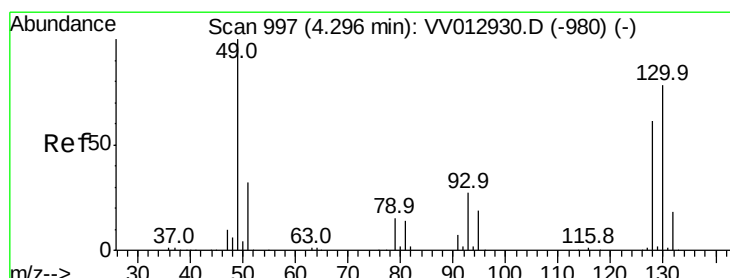
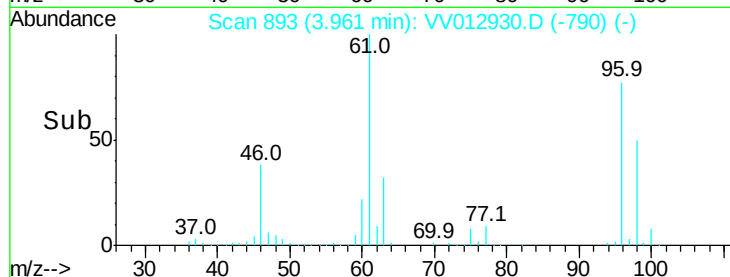
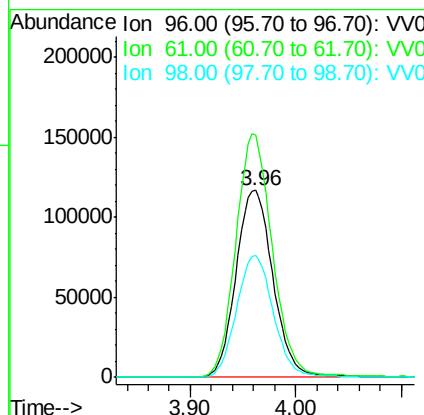
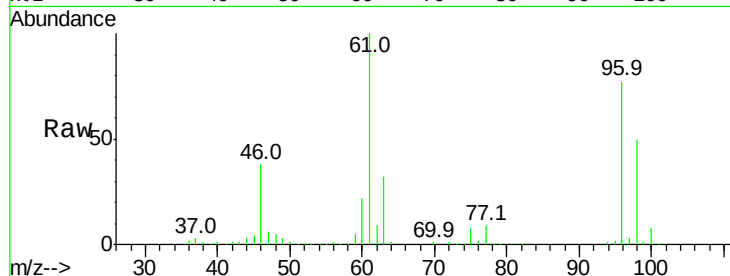


#22

cis-1,2-Dichloroethene  
 Concen: 28.144 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

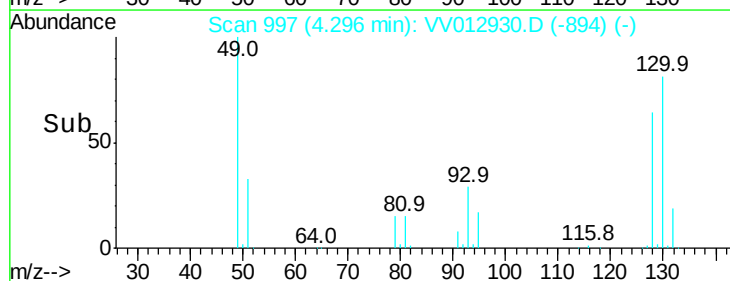
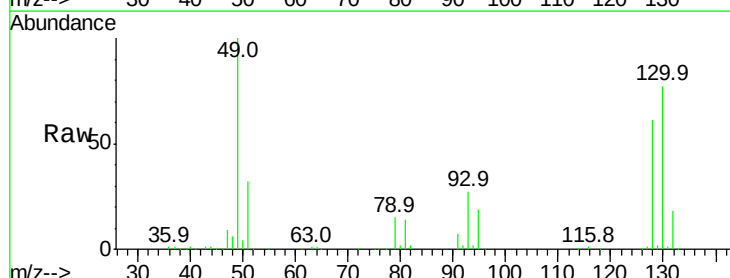
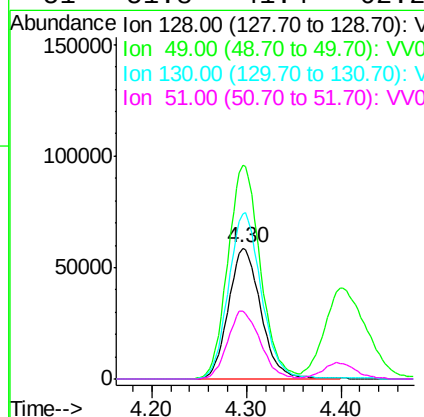
Tgt Ion: 96 Resp: 284431  
 Ion Ratio Lower Upper  
 96 100  
 61 129.8 90.9 168.7  
 98 65.1 45.6 84.6

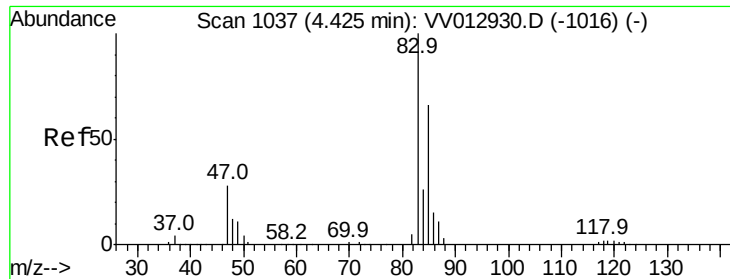


#23

Bromochloromethane  
 Concen: 29.472 ug/L  
 RT: 4.30 min Scan# 997  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Tgt Ion: 128 Resp: 140258  
 Ion Ratio Lower Upper  
 128 100  
 49 163.5 114.4 212.6  
 130 126.5 88.5 164.4  
 51 51.8 41.4 62.2

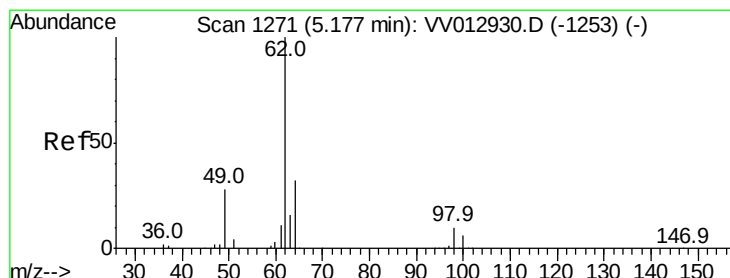
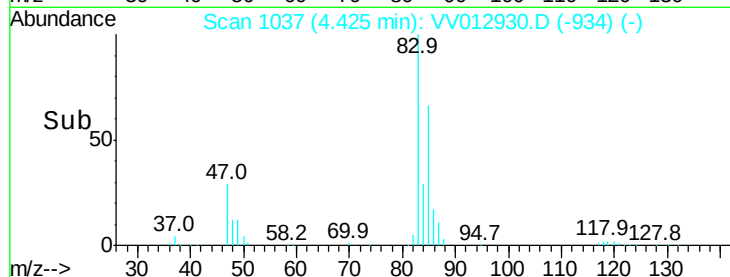
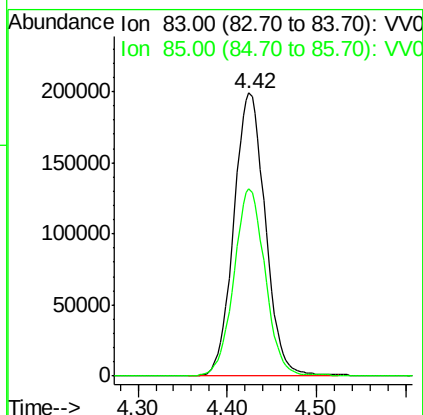
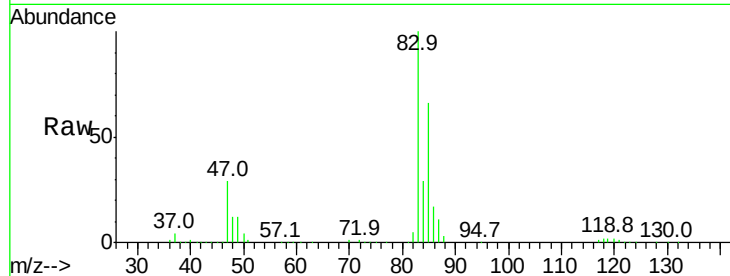




#25  
Chloroform  
Concen: 28.129 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

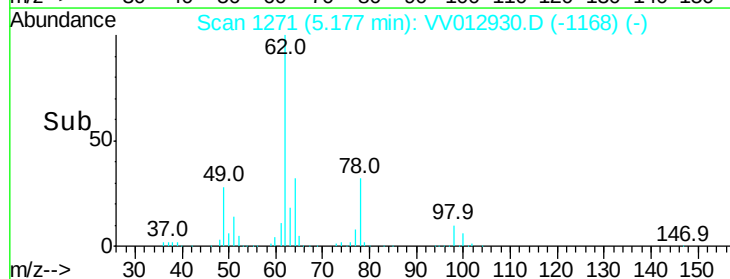
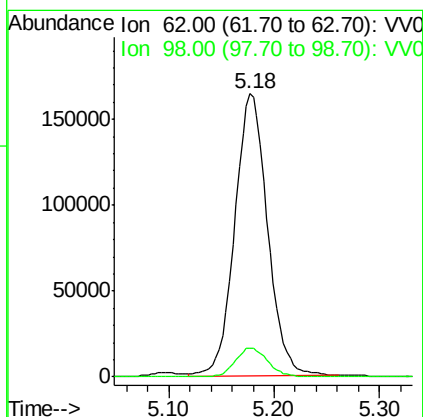
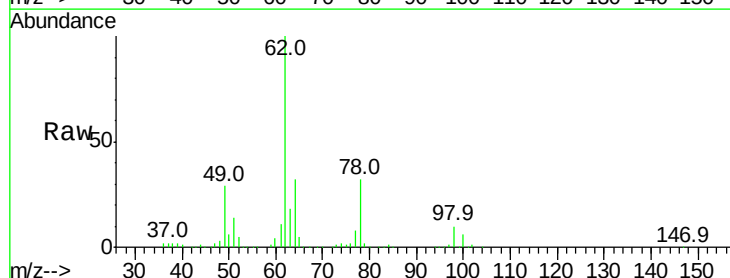
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

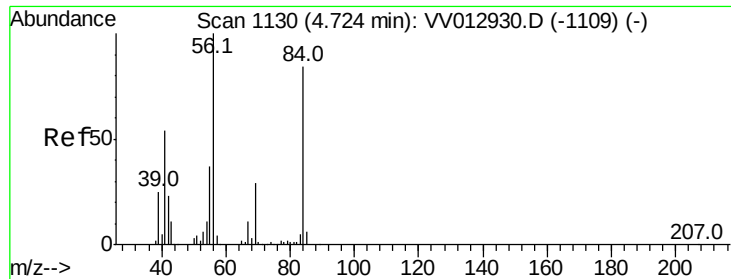
Tgt Ion: 83 Resp: 488446  
Ion Ratio Lower Upper  
83 100  
85 65.4 45.8 85.0



#27  
1,2-Dichloroethane  
Concen: 29.285 ug/L  
RT: 5.18 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

Tgt Ion: 62 Resp: 354619  
Ion Ratio Lower Upper  
62 100  
98 10.3 8.2 12.4

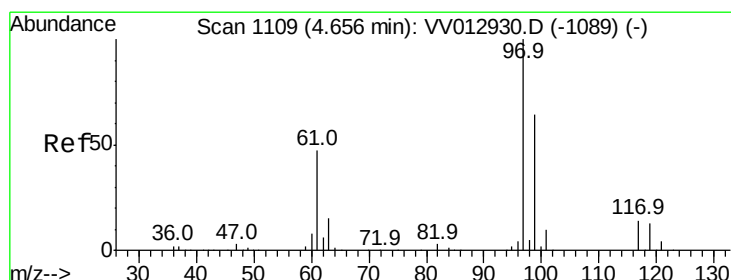
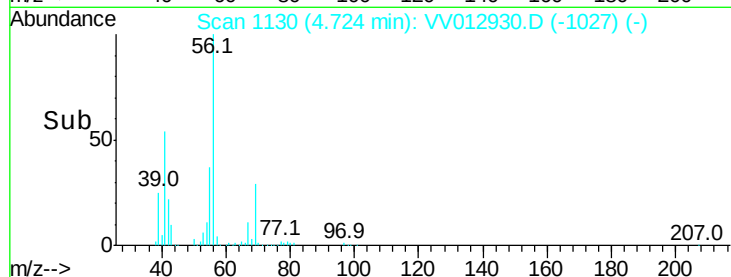
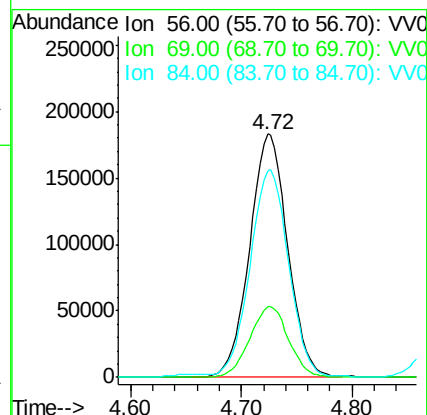
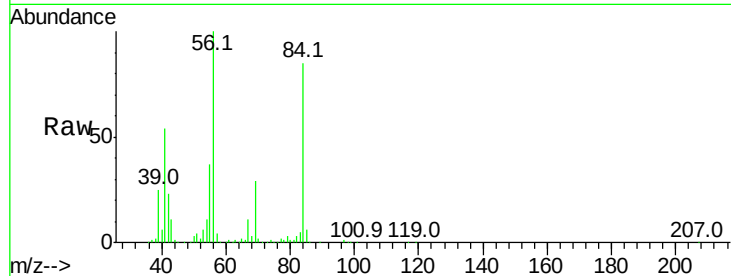




#30  
Cyclohexane  
Concen: 26.074 ug/L  
RT: 4.72 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

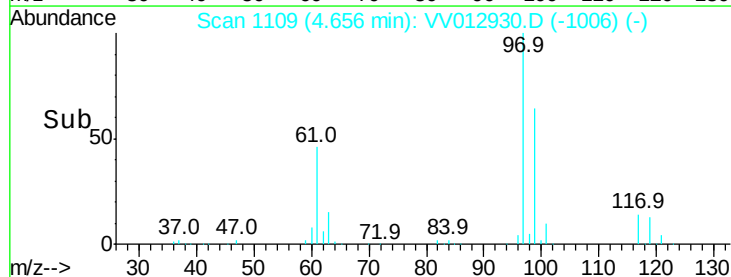
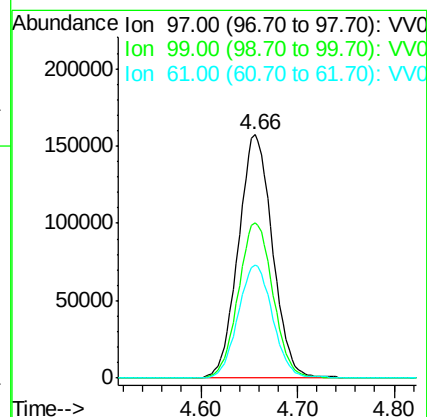
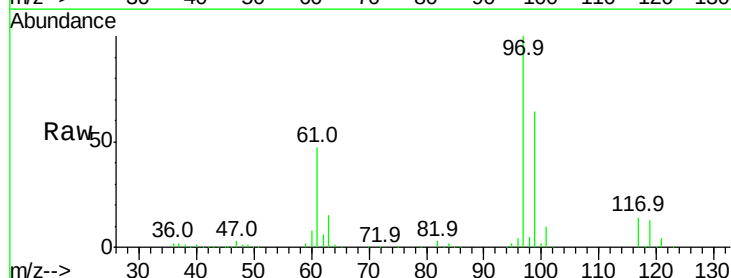
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

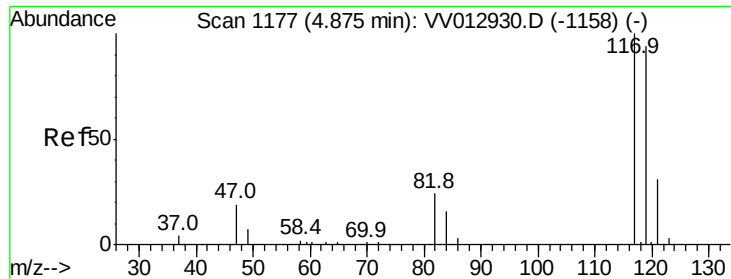
Tgt Ion: 56 Resp: 436959  
Ion Ratio Lower Upper  
56 100  
69 29.8 23.8 35.8  
84 85.5 68.4 102.6



#31  
1,1,1-Trichloroethane  
Concen: 26.366 ug/L  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

Tgt Ion: 97 Resp: 386164  
Ion Ratio Lower Upper  
97 100  
99 64.6 51.7 77.5  
61 47.3 37.8 56.8

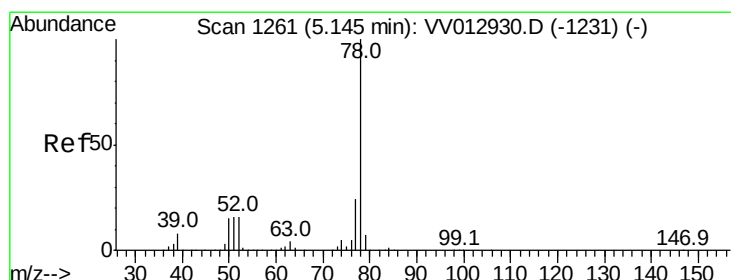
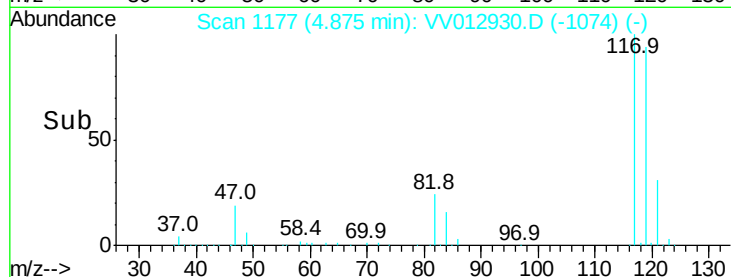
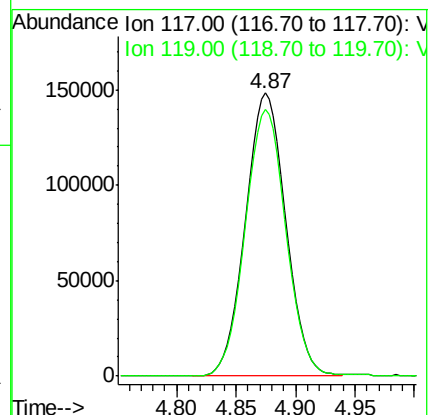
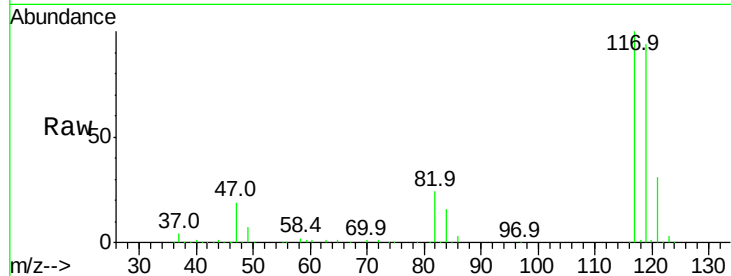




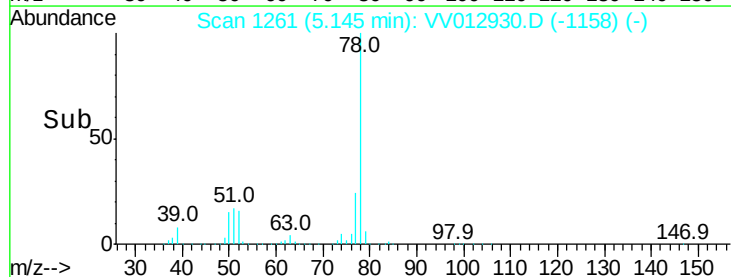
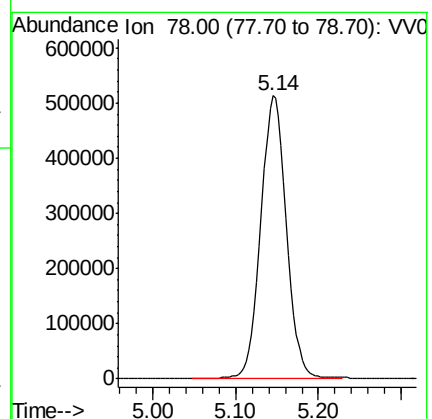
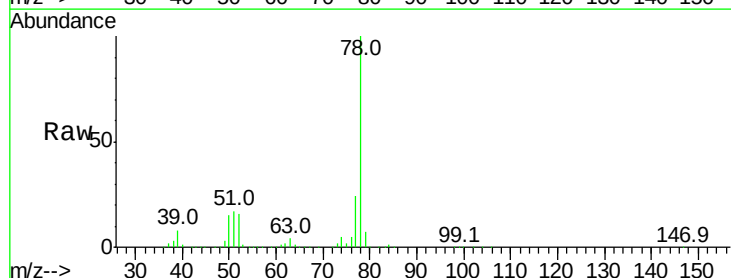
#32  
Carbon tetrachloride  
Concen: 26.622 ug/L  
RT: 4.87 min Scan# 1177  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

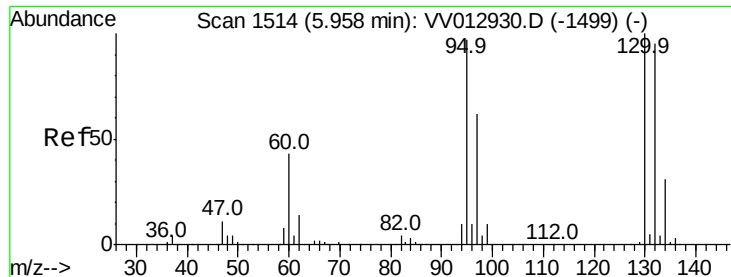
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

Tgt Ion:117 Resp: 348717  
Ion Ratio Lower Upper  
117 100  
119 95.0 76.0 114.0



#34  
Benzene  
Concen: 27.119 ug/L  
RT: 5.14 min Scan# 1261  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00  
Tgt Ion: 78 Resp: 1104910





#35

Trichloroethene

Concen: 27.031 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

Tgt Ion: 95 Resp: 299517

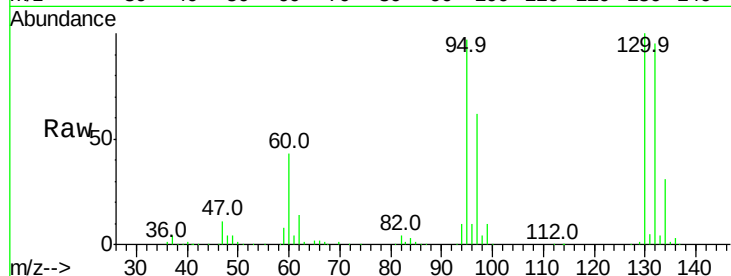
Ion Ratio Lower Upper

95 100

97 63.8 44.7 82.9

132 100.1 70.1 130.1

130 104.7 73.3 136.1

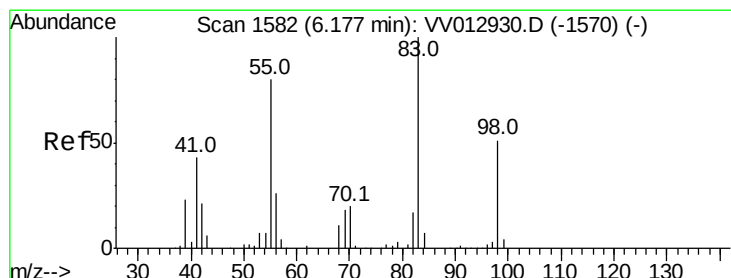
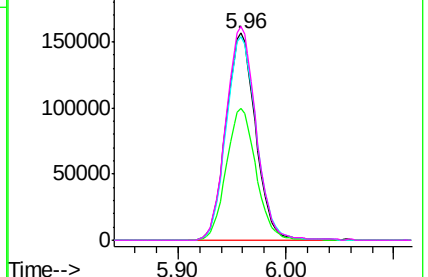
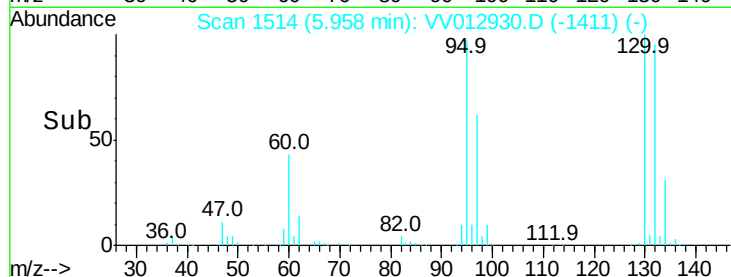


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 26.889 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

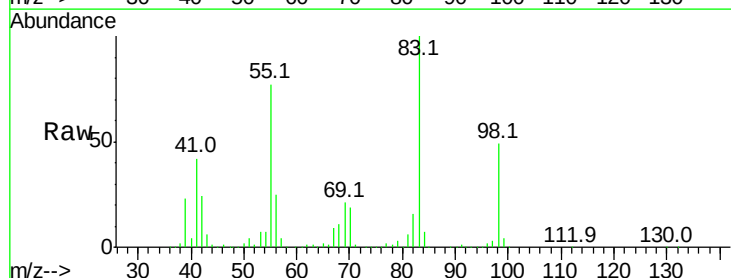
Tgt Ion: 83 Resp: 485284

Ion Ratio Lower Upper

83 100

55 77.3 61.8 92.8

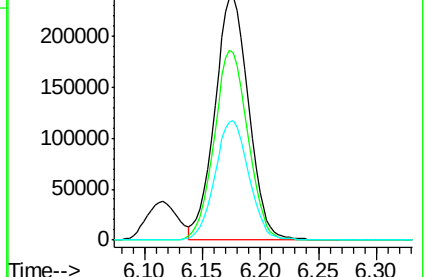
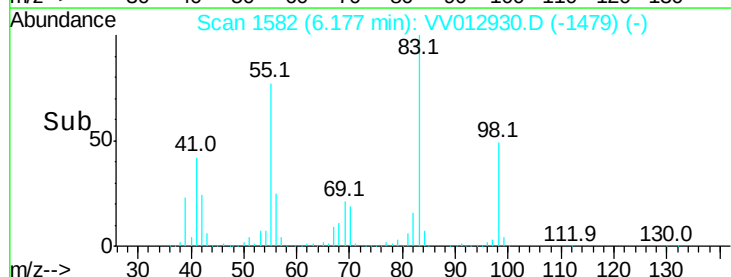
98 49.1 39.3 58.9



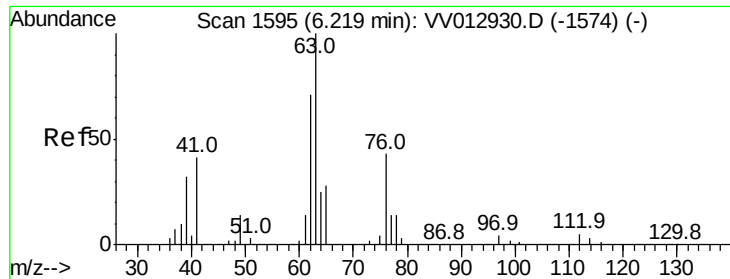
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0







#40

1,2-Dichloropropane

Concen: 27.941 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

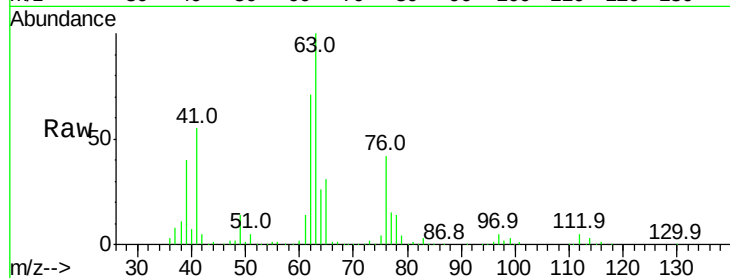
VSTD02563

Tgt Ion: 63 Resp: 284012

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

150000

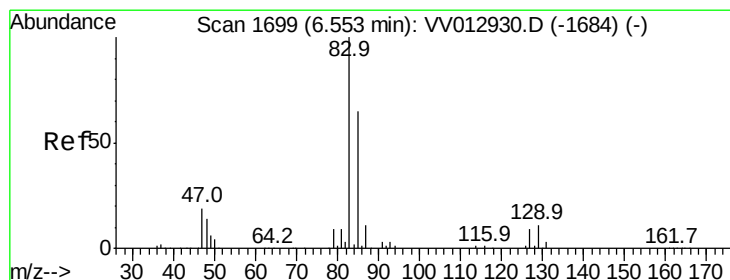
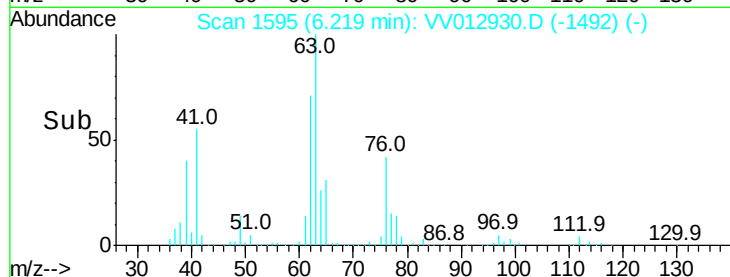
100000

50000

0

6.10 6.20 6.30

Time-->



#41

Bromodichloromethane

Concen: 27.782 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

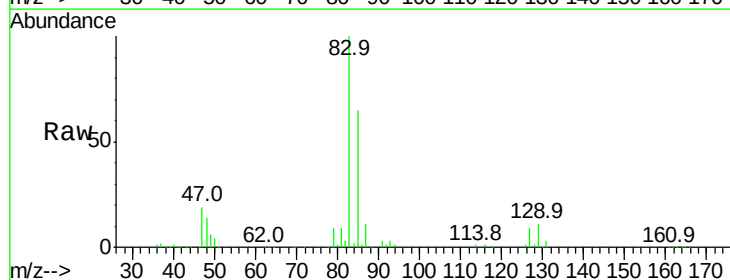
Tgt Ion: 83 Resp: 357355

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

127 9.0 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V

250000

200000

150000

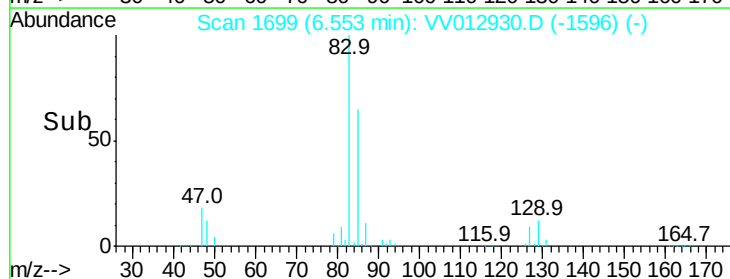
100000

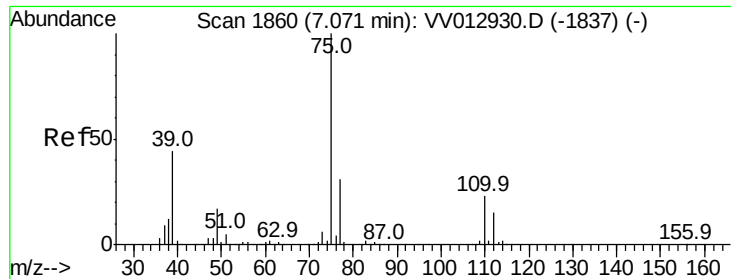
50000

0

6.45 6.50 6.55 6.60 6.65

Time-->





#42

cis-1,3-Dichloropropene

Concen: 28.090 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

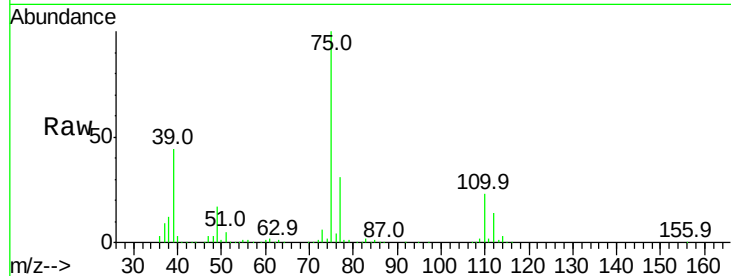
VSTD02563

Tgt Ion: 75 Resp: 424919

Ion Ratio Lower Upper

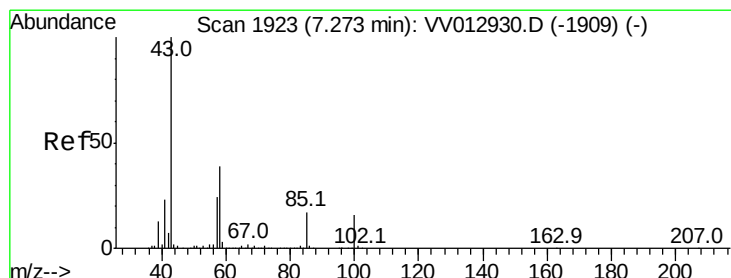
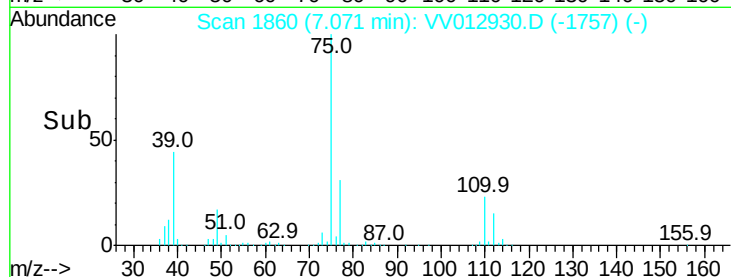
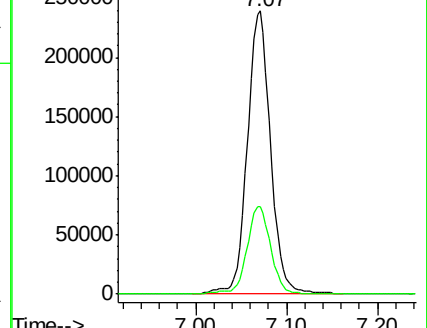
75 100

77 30.7 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#43

4-Methyl-2-pentanone

Concen: 61.840 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

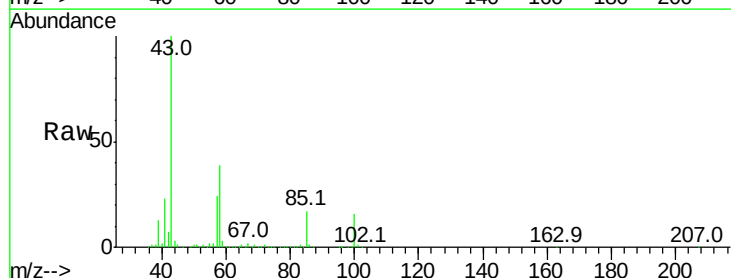
Tgt Ion: 43 Resp: 513318

Ion Ratio Lower Upper

43 100

58 39.0 31.2 46.8

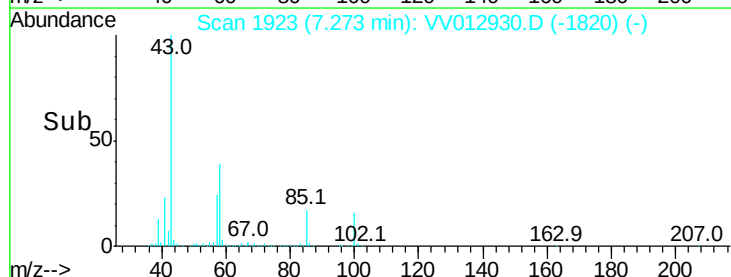
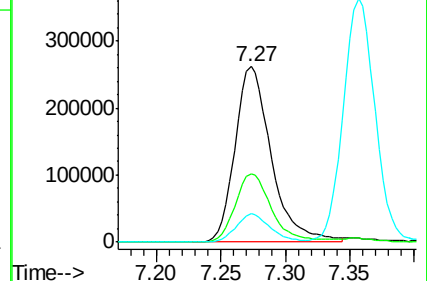
100 15.2 12.2 18.2

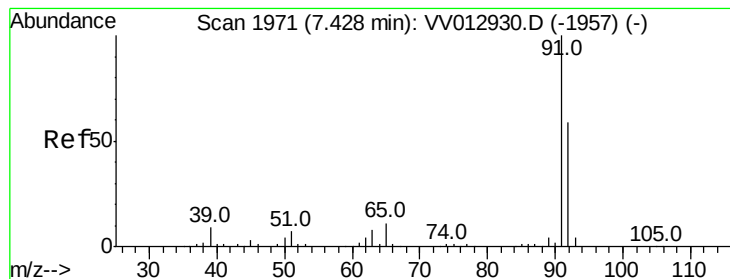


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 27.825 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

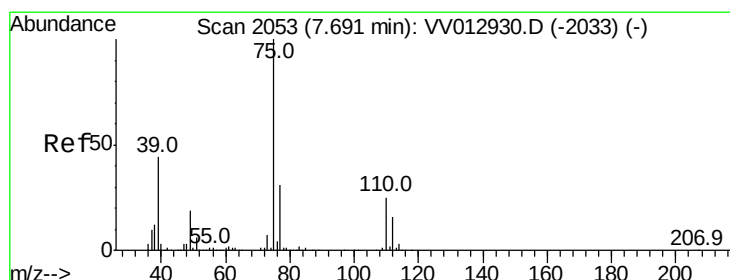
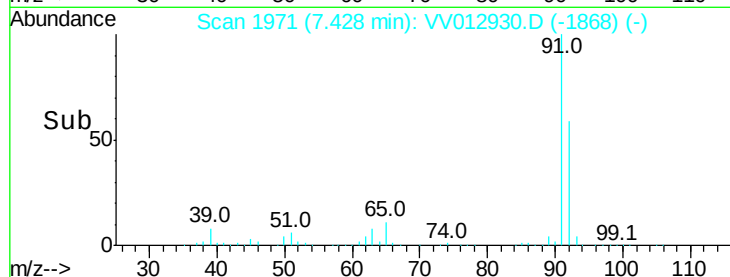
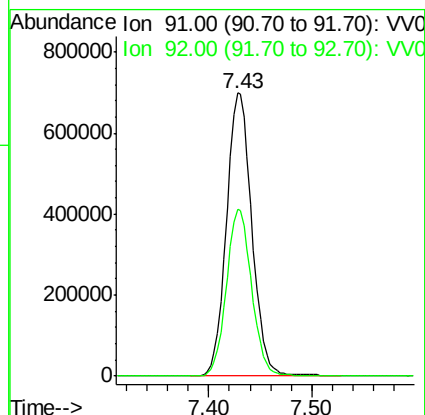
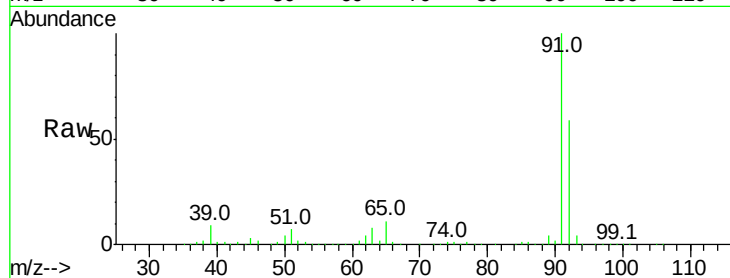
VSTD02563

Tgt Ion: 91 Resp: 1198457

Ion Ratio Lower Upper

91 100

92 59.0 41.3 76.7



#45

trans-1,3-Dichloropropene

Concen: 28.424 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012930.D

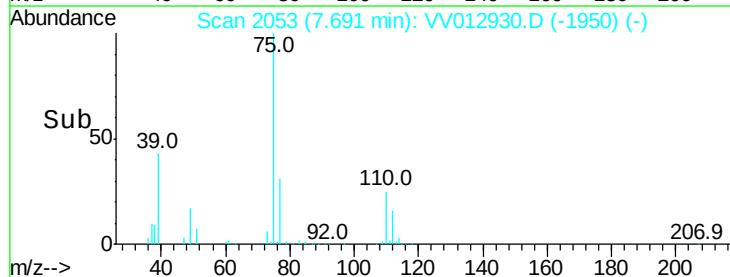
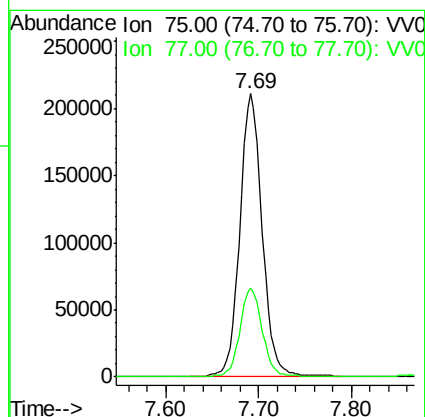
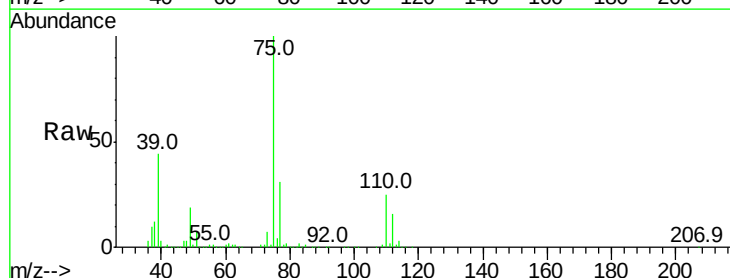
Acq: 23 Sep 2019 11:00

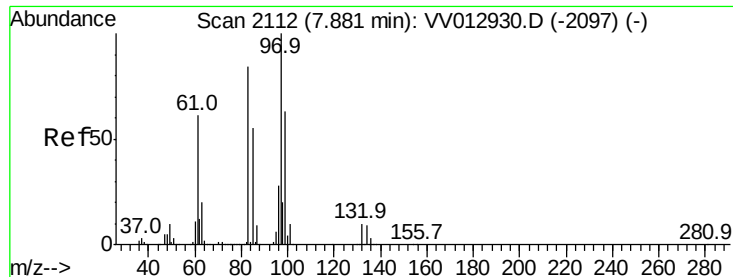
Tgt Ion: 75 Resp: 353882

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8

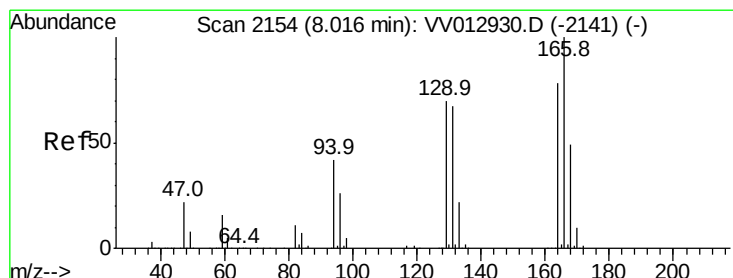
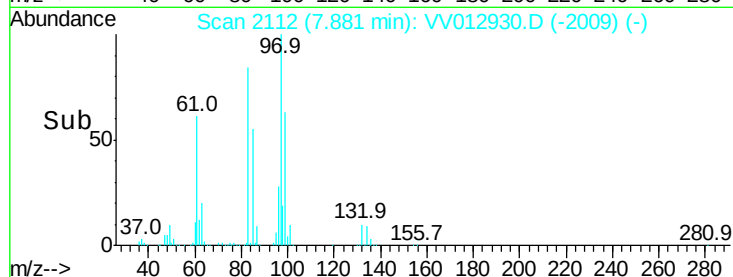
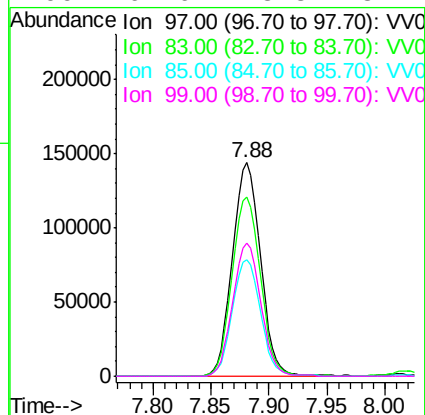
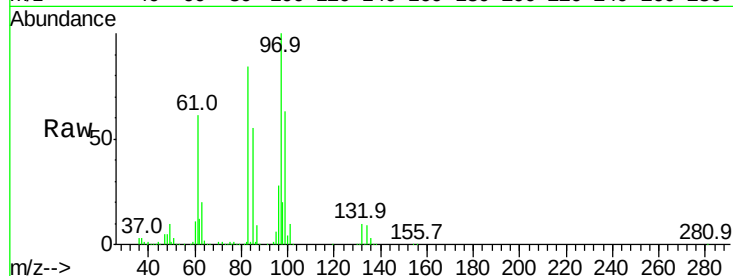




#46  
 1,1,2-Trichloroethane  
 Concen: 28.772 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

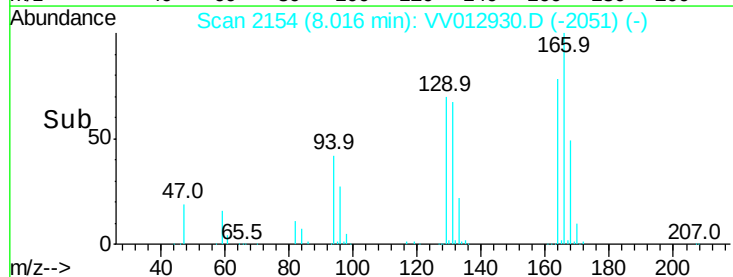
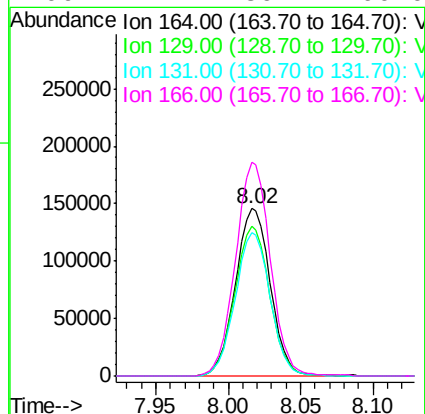
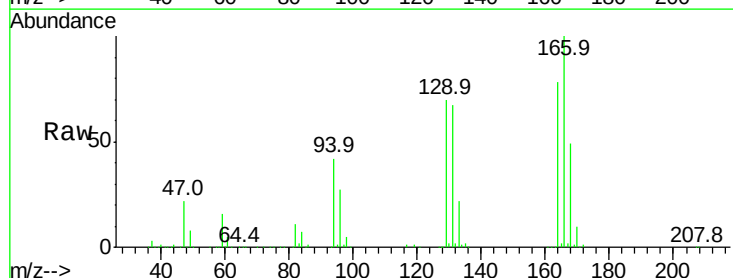
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

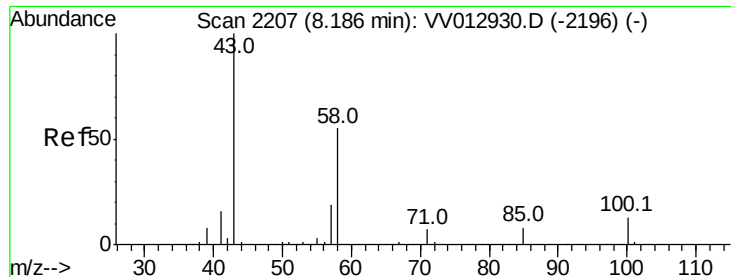
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 240605 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 84.2  | 58.9  | 109.5  |
| 85       | 54.8  | 38.4  | 71.2   |
| 99       | 62.6  | 43.8  | 81.4   |



#47  
 Tetrachloroethene  
 Concen: 26.967 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 243919 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.7  | 62.8  | 116.6  |
| 131      | 86.0  | 60.2  | 111.8  |
| 166      | 127.7 | 89.4  | 166.0  |

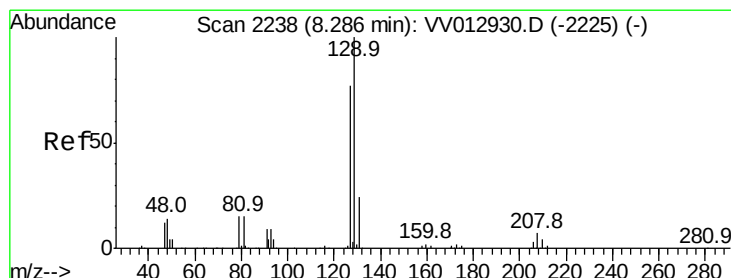
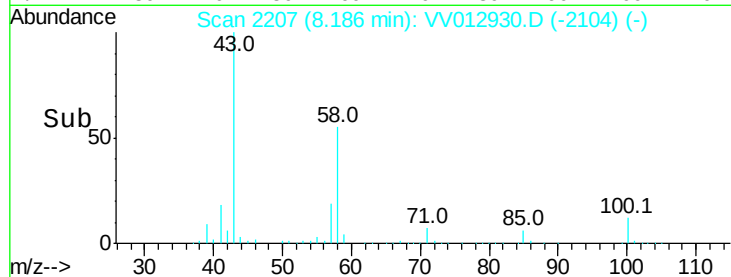
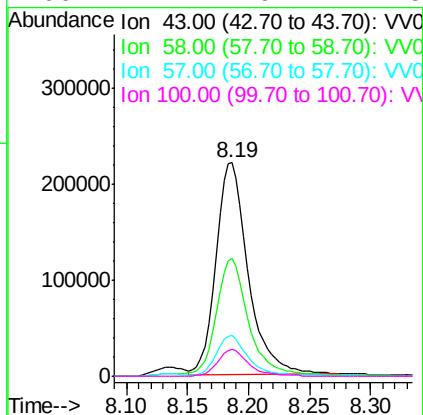
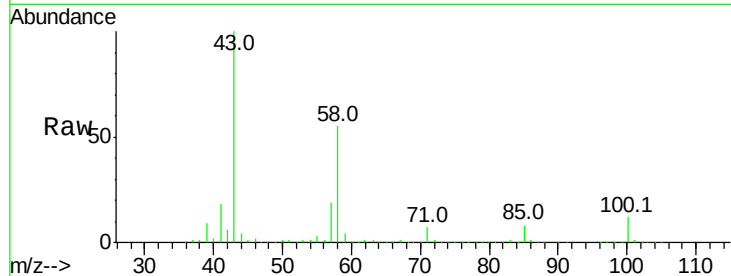




#49  
2-Hexanone  
Concen: 60.213 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

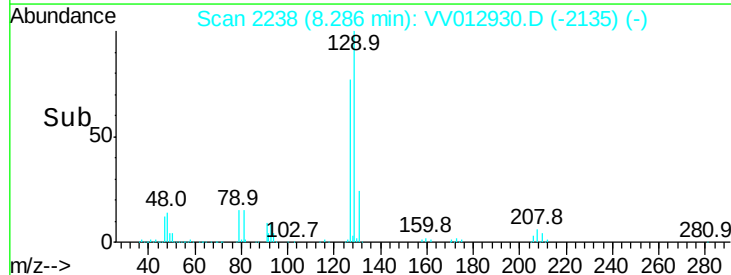
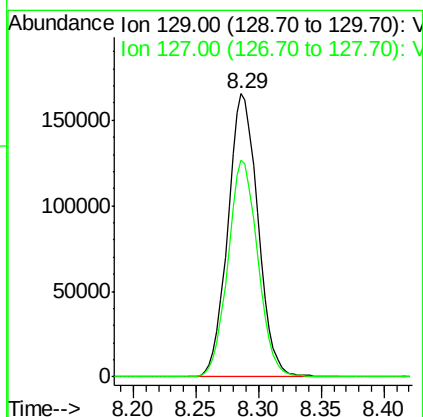
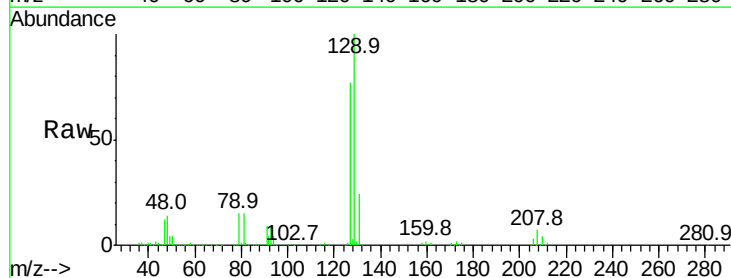
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

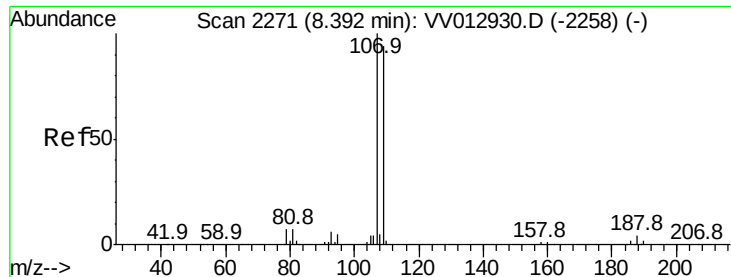
Tgt Ion: 43 Resp: 406280  
Ion Ratio Lower Upper  
43 100  
58 58.1 46.5 69.7  
57 19.4 15.5 23.3  
100 12.1 9.7 14.5



#50  
Dibromochloromethane  
Concen: 29.136 ug/L  
RT: 8.29 min Scan# 2238  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

Tgt Ion: 129 Resp: 276292  
Ion Ratio Lower Upper  
129 100  
127 76.7 53.7 99.7

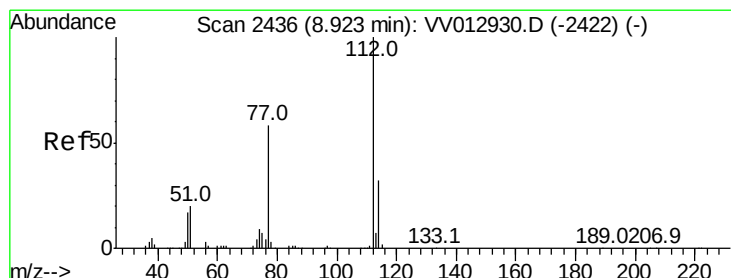
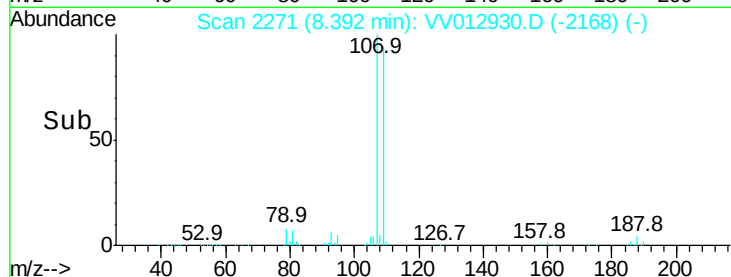
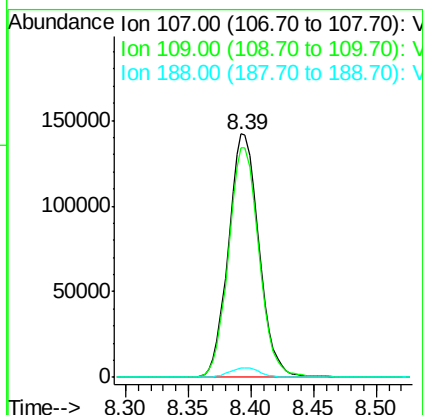
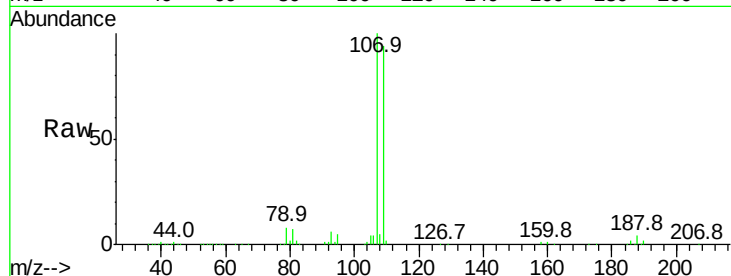




#51  
 1,2-Dibromoethane  
 Concen: 29.219 ug/L  
 RT: 8.39 min Scan# 2271  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

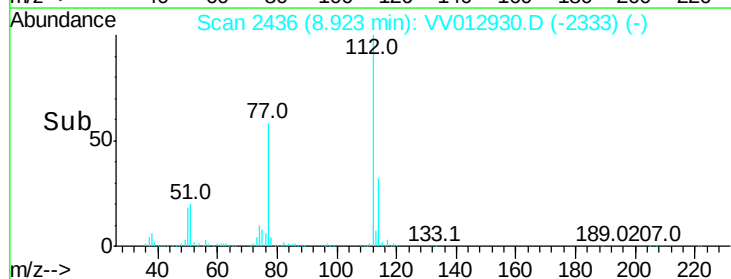
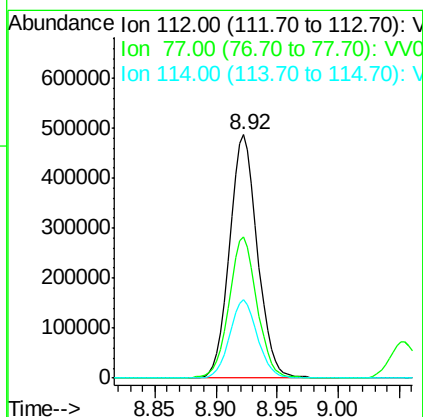
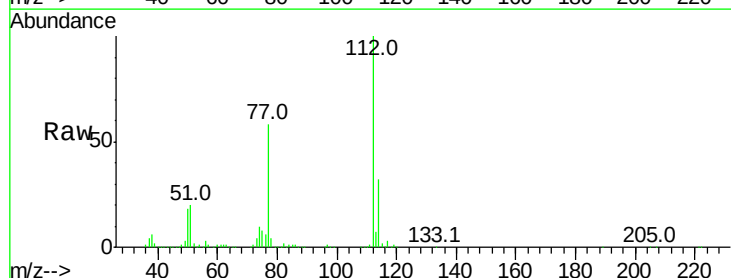
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

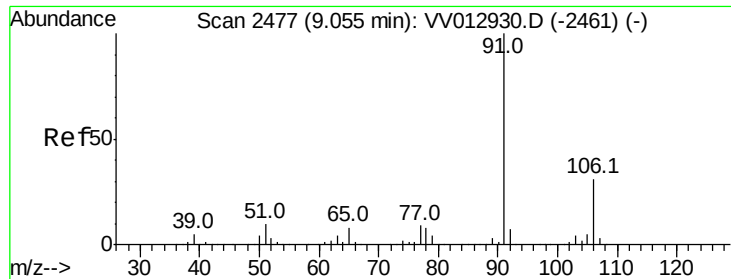
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.5  | 66.1  | 122.8 |
| 188     | 3.9   | 3.1   | 4.7   |



#52  
 Chlorobenzene  
 Concen: 26.978 ug/L  
 RT: 8.92 min Scan# 2436  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 57.9  | 46.3  | 69.5  |
| 114     | 32.1  | 22.5  | 41.7  |

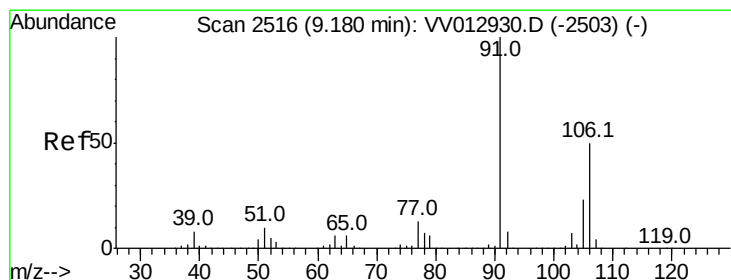
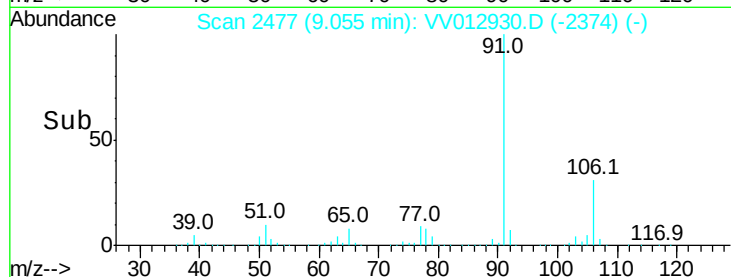
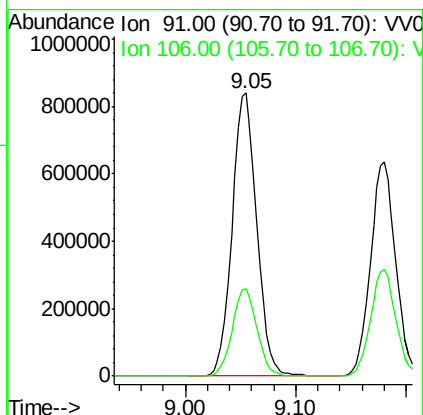
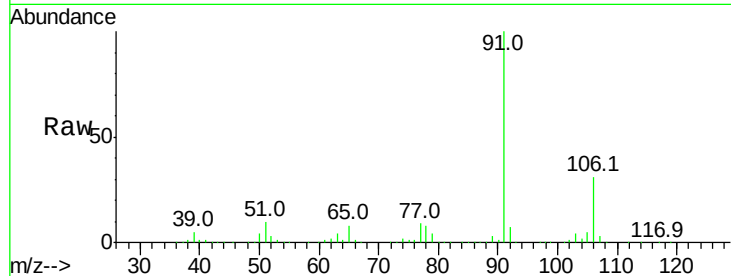




#53  
Ethylbenzene  
Concen: 27.222 ug/L  
RT: 9.05 min Scan# 2477  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

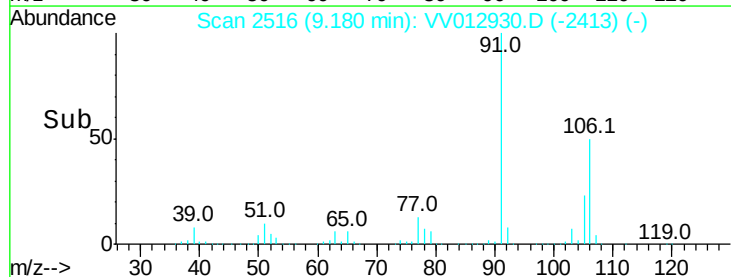
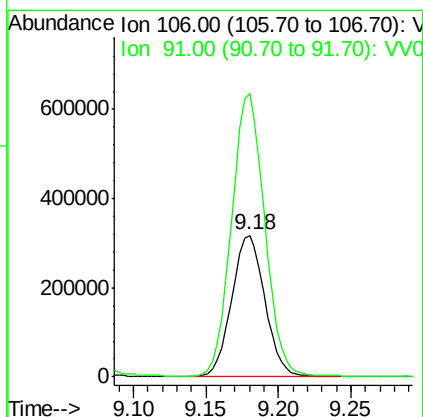
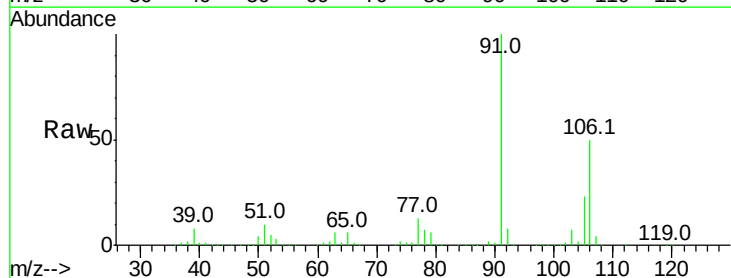
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

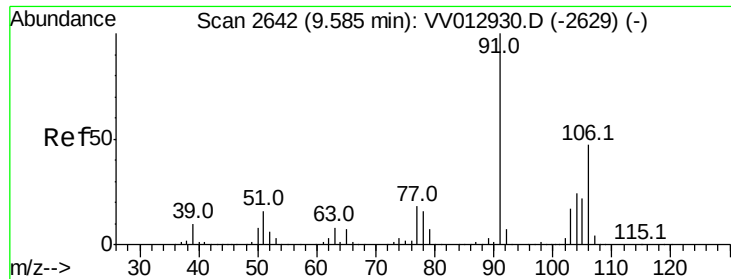
Tgt Ion: 91 Resp: 1300711  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.8 40.4



#54  
m,p-Xylene  
Concen: 27.868 ug/L  
RT: 9.18 min Scan# 2516  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

Tgt Ion: 106 Resp: 503595  
Ion Ratio Lower Upper  
106 100  
91 200.2 140.1 260.3

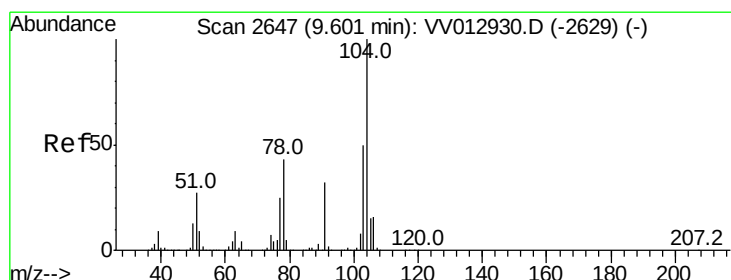
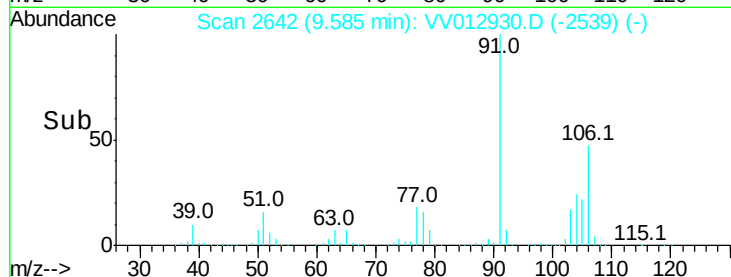
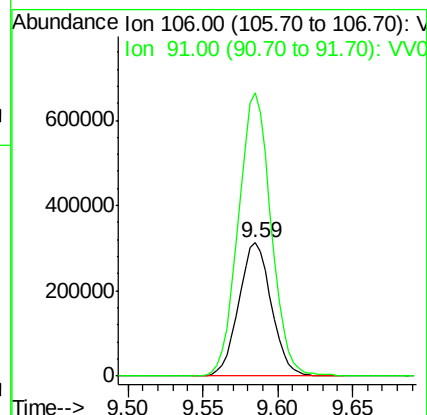
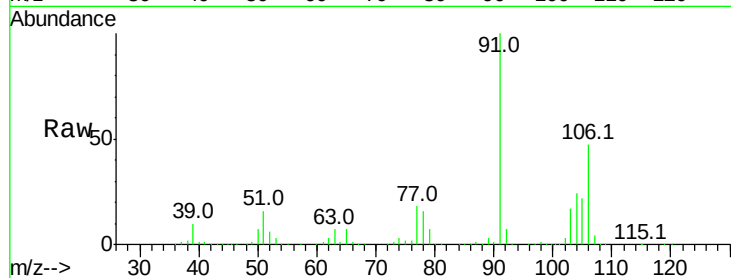




#55  
o-xylene  
Concen: 27.999 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

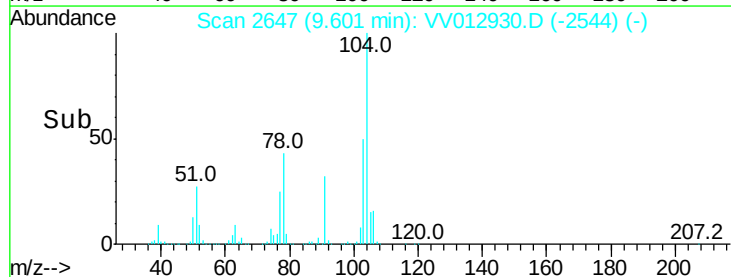
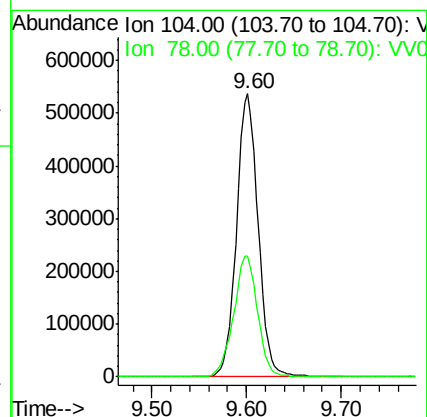
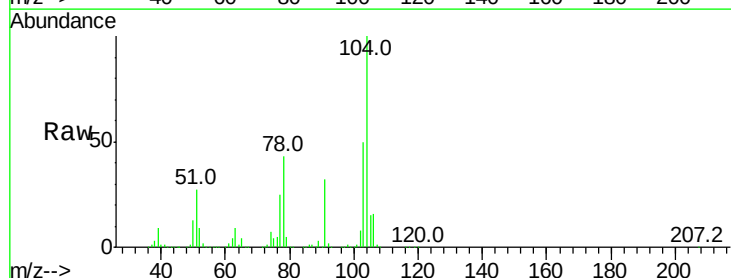
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02563

Tgt Ion:106 Resp: 476783  
Ion Ratio Lower Upper  
106 100  
91 212.6 148.8 276.4

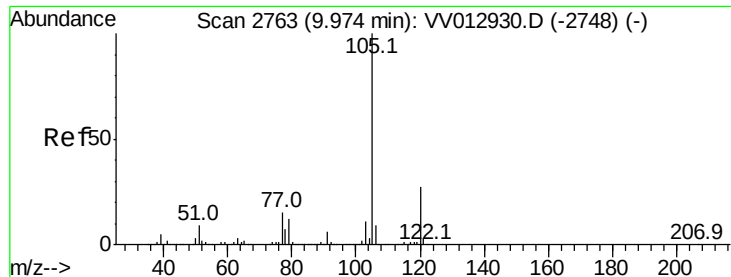


#56  
Styrene  
Concen: 28.921 ug/L  
RT: 9.60 min Scan# 2647  
Delta R.T. 0.00 min  
Lab File: VV012930.D  
Acq: 23 Sep 2019 11:00

Tgt Ion:104 Resp: 853569  
Ion Ratio Lower Upper  
104 100  
78 42.5 29.8 55.3







#57

Isopropylbenzene

Concen: 27.895 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

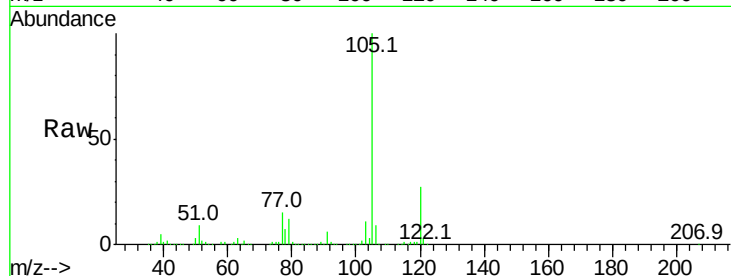
Tgt Ion:105 Resp: 1268241

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

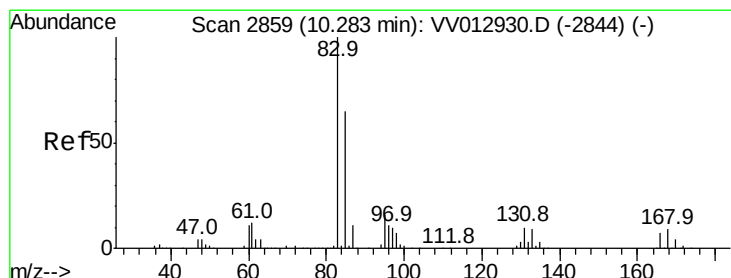
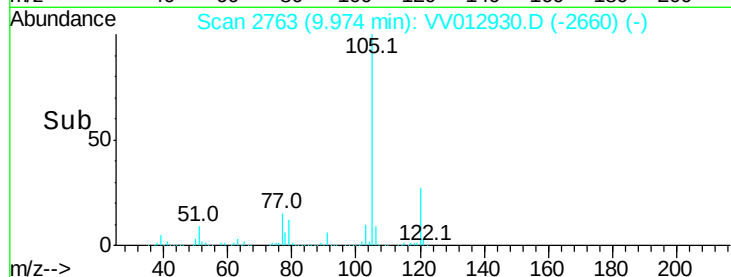
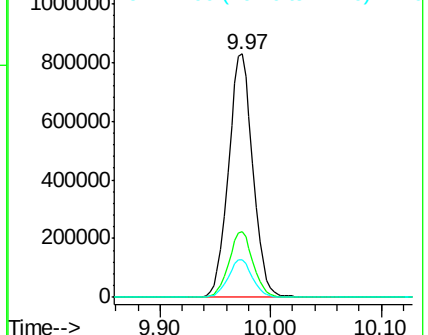
77 15.3 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 28.777 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

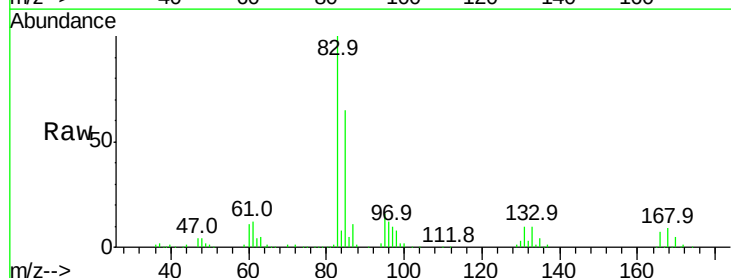
Tgt Ion: 83 Resp: 304455

Ion Ratio Lower Upper

83 100

85 64.8 45.4 84.2

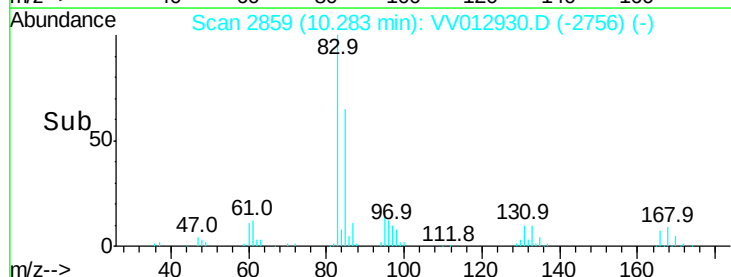
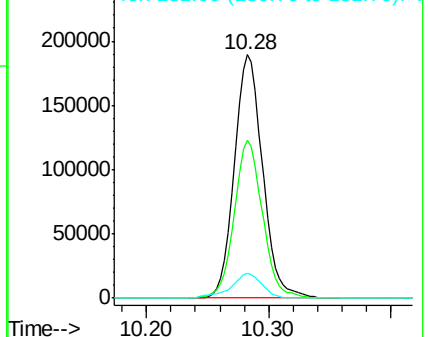
131 10.2 8.2 12.2

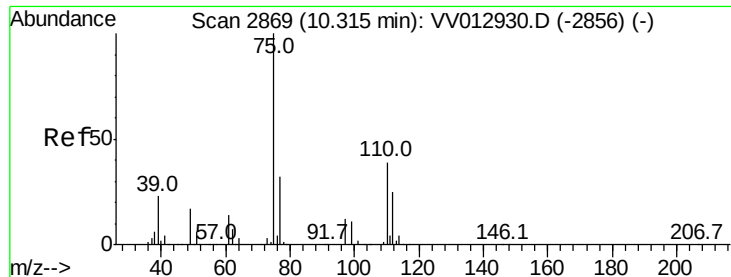


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

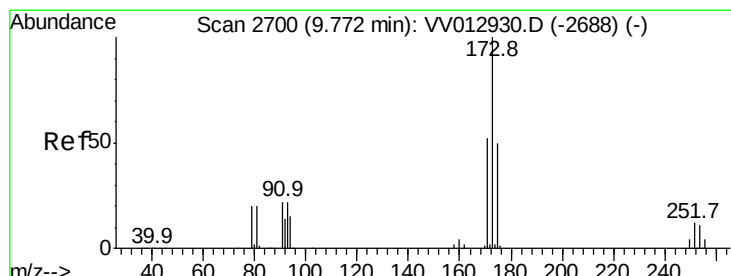
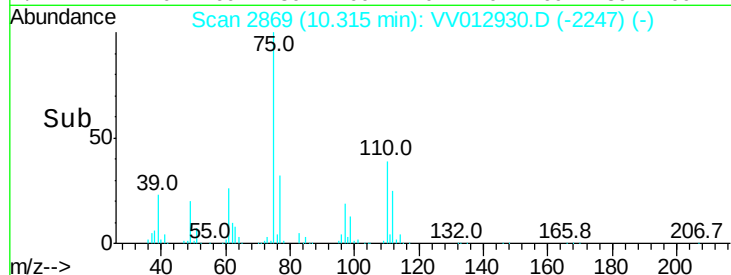
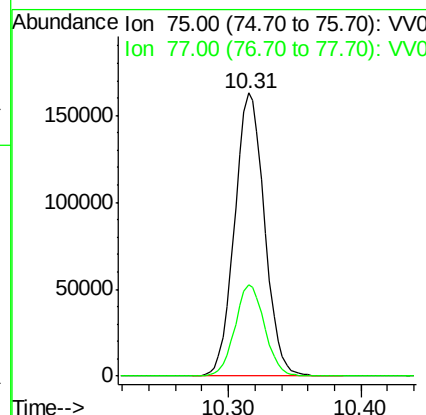
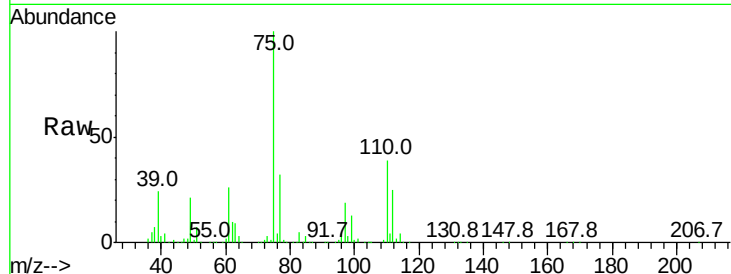




#59  
 1,2,3-Trichloropropane  
 Concen: 29.859 ug/L  
 RT: 10.31 min Scan# 2869  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

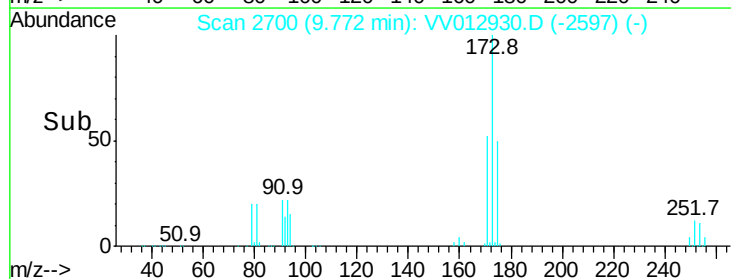
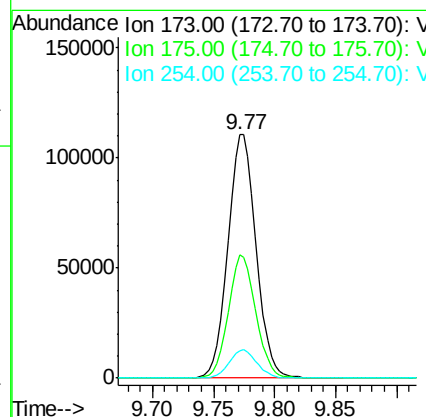
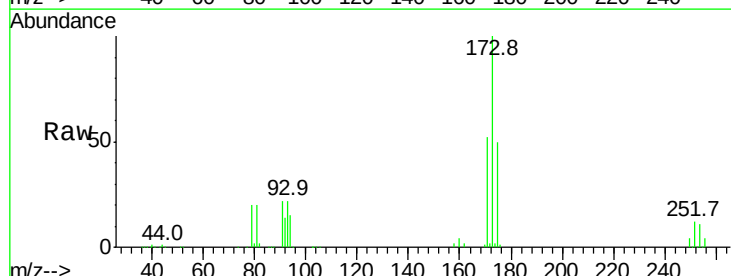
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

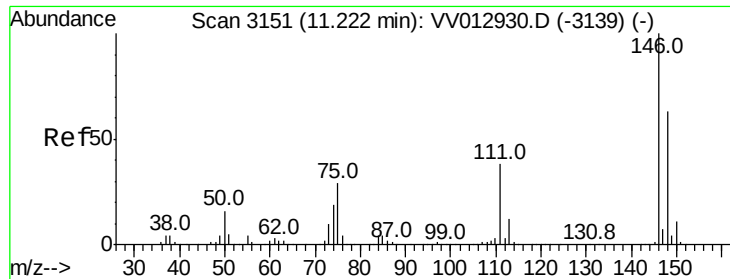
Tgt Ion: 75 Resp: 254835  
 Ion Ratio Lower Upper  
 75 100  
 77 31.7 25.4 38.0



#62  
 Bromoform  
 Concen: 29.108 ug/L  
 RT: 9.77 min Scan# 2700  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Tgt Ion: 173 Resp: 179363  
 Ion Ratio Lower Upper  
 173 100  
 175 49.4 39.5 59.3  
 254 11.4 9.1 13.7

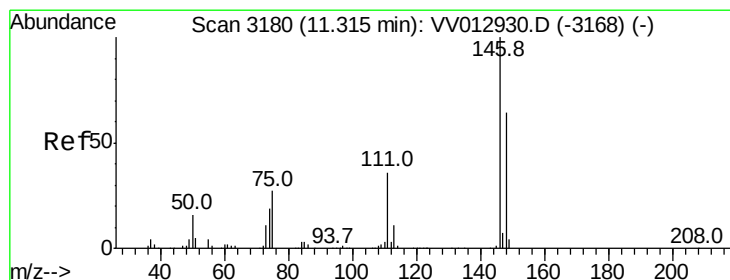
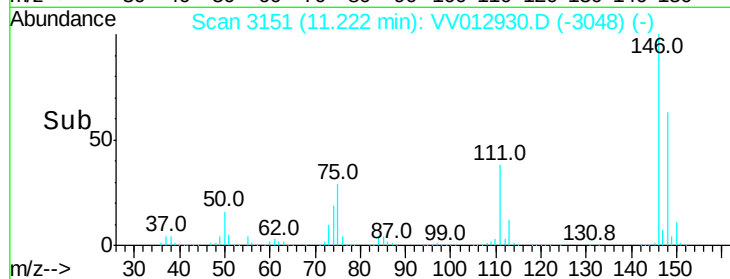
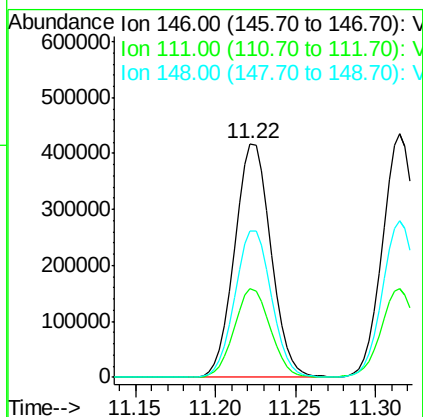
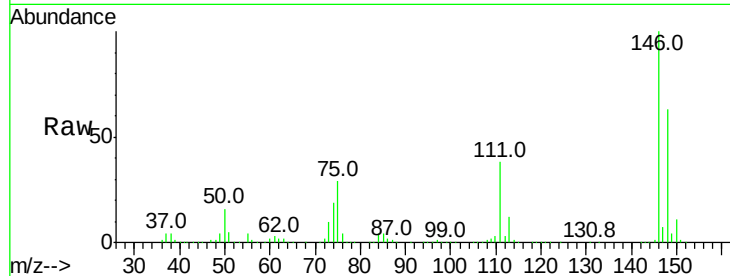




#63  
 1,3-Dichlorobenzene  
 Concen: 26.979 ug/L  
 RT: 11.22 min Scan# 3151  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

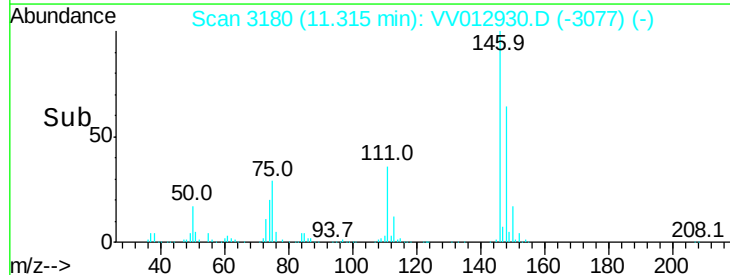
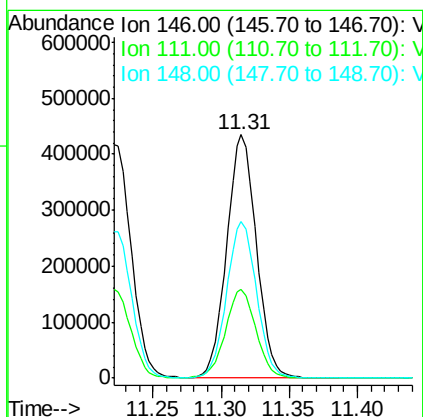
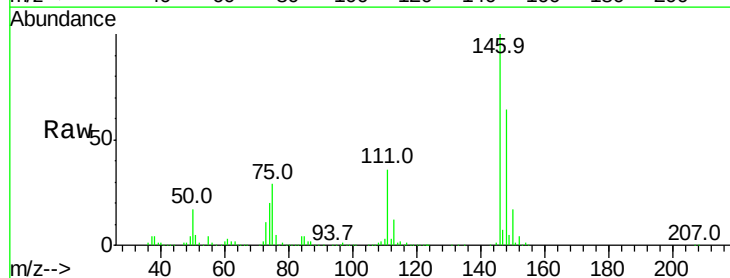
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

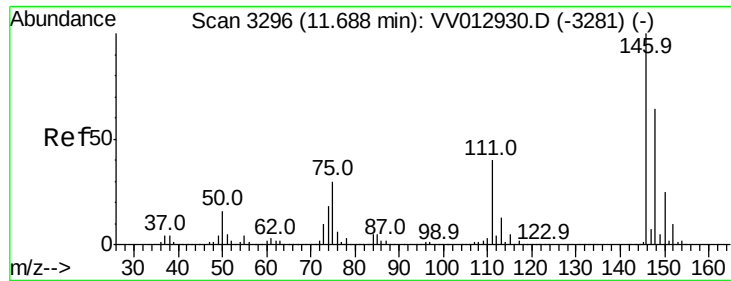
Tgt Ion:146 Resp: 644107  
 Ion Ratio Lower Upper  
 146 100  
 111 38.2 26.7 49.7  
 148 62.7 43.9 81.5



#64  
 1,4-Dichlorobenzene  
 Concen: 26.482 ug/L  
 RT: 11.31 min Scan# 3180  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Tgt Ion:146 Resp: 656737  
 Ion Ratio Lower Upper  
 146 100  
 111 36.4 25.5 47.3  
 148 64.5 45.1 83.9

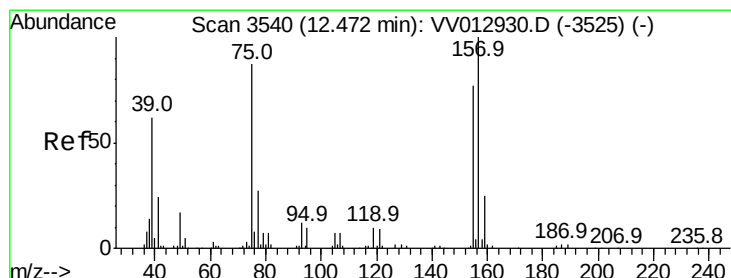
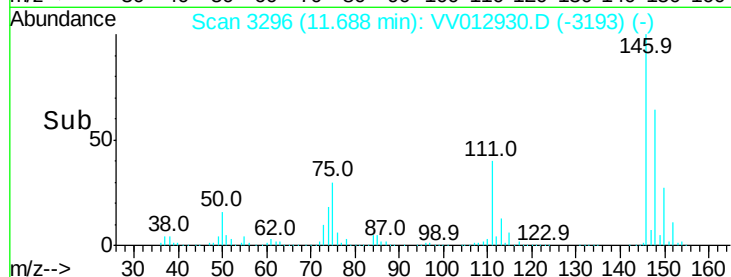
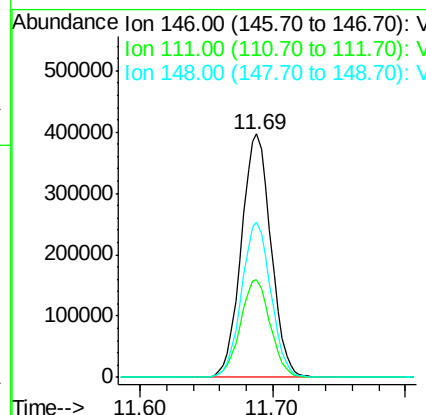
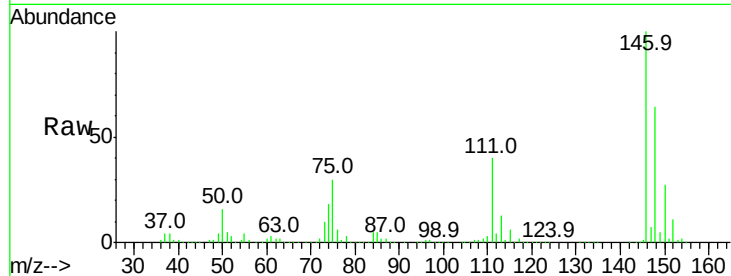




#65  
 1,2-Dichlorobenzene  
 Concen: 27.443 ug/L  
 RT: 11.69 min Scan# 3296  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

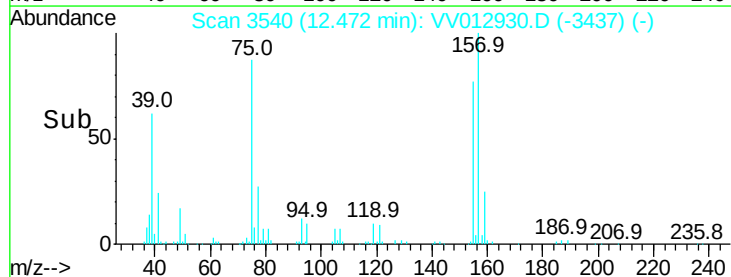
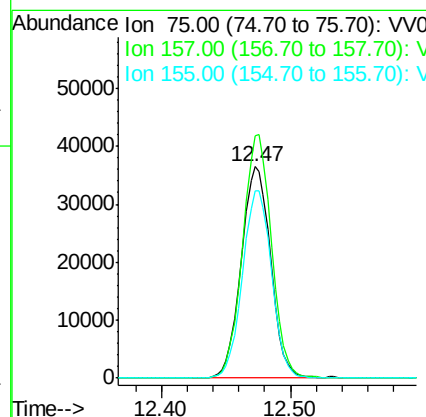
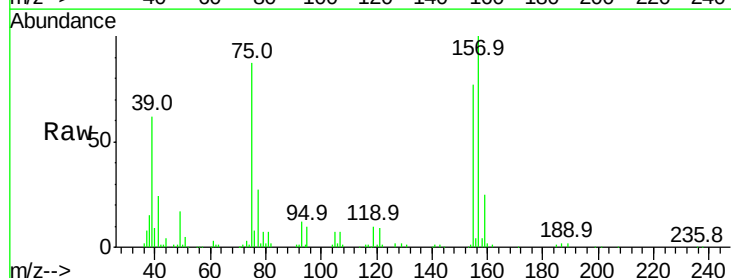
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

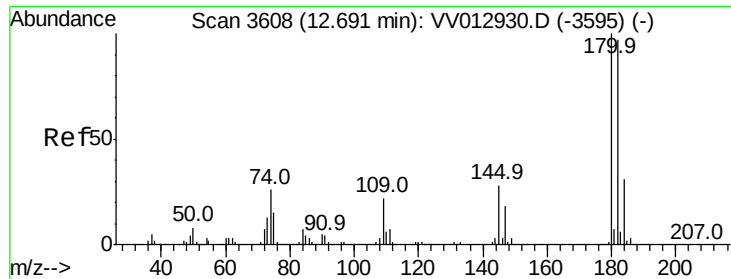
Tgt Ion: 146 Resp: 615849  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 31.9 47.9  
 148 63.8 51.0 76.6



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 29.968 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Tgt Ion: 75 Resp: 57919  
 Ion Ratio Lower Upper  
 75 100  
 157 114.6 91.7 137.5  
 155 88.5 70.8 106.2

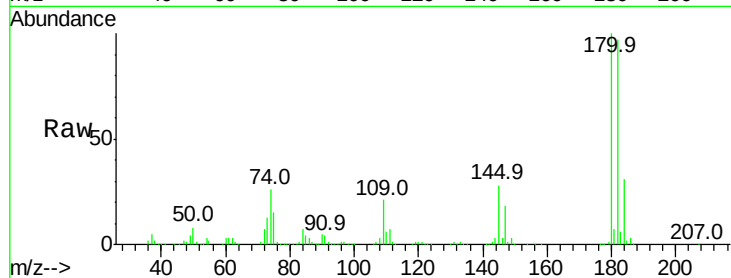




#67  
 1,3,5-Trichlorobenzene  
 Concen: 26.332 ug/L  
 RT: 12.69 min Scan# 3608  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02563

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 498868 |       |       |
| 182     | 95.5  | 76.4   | 114.6 |       |
| 184     | 30.8  | 24.6   | 37.0  |       |
| 145     | 27.8  | 22.2   | 33.4  |       |

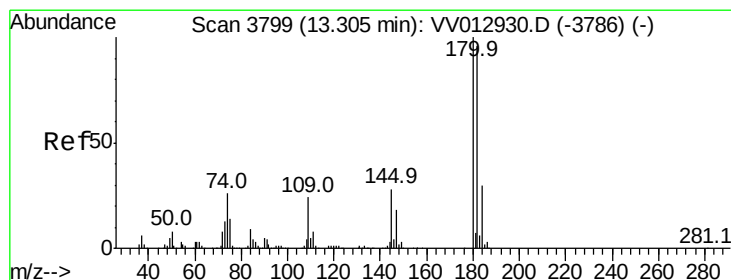
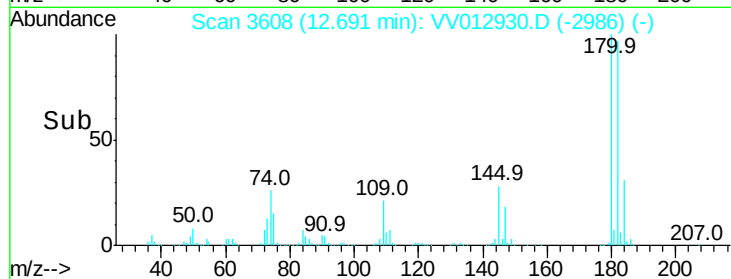
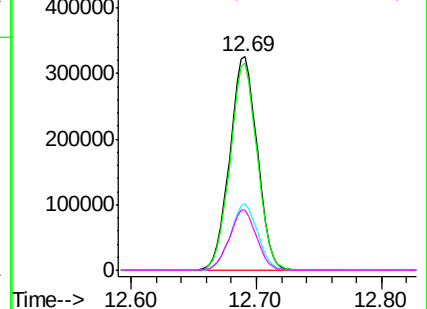


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

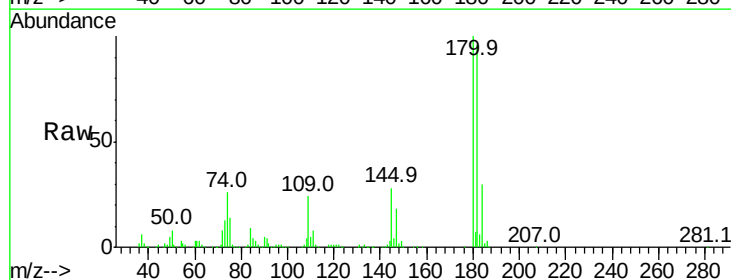
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.401 ug/L  
 RT: 13.31 min Scan# 3799  
 Delta R.T. 0.00 min  
 Lab File: VV012930.D  
 Acq: 23 Sep 2019 11:00

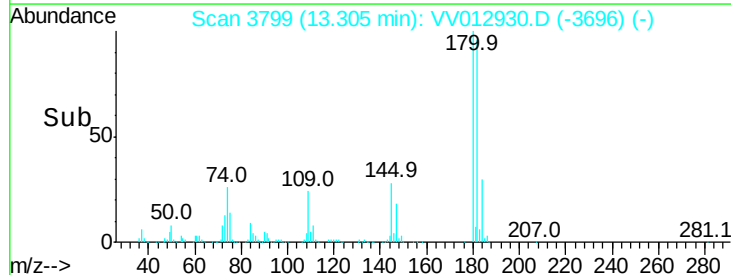
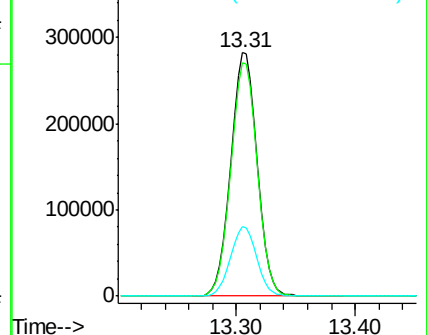
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 433869 |       |       |
| 182     | 96.0  | 76.8   | 115.2 |       |
| 145     | 28.3  | 22.6   | 34.0  |       |

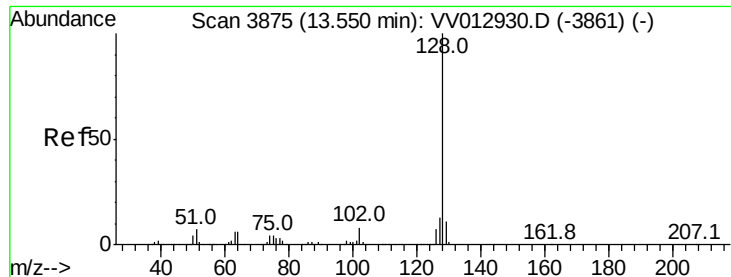


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.776 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

Instrument :

MSVOA\_V

ClientSampleId :

VSTD02563

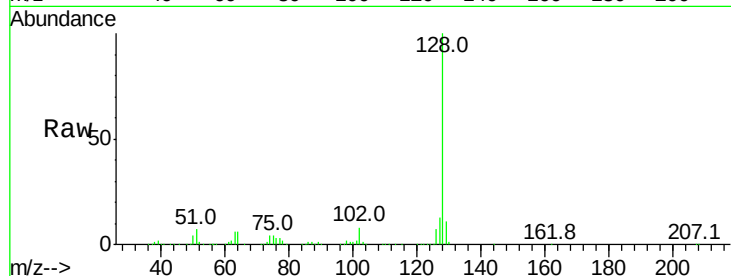
Tgt Ion:128 Resp: 957198

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

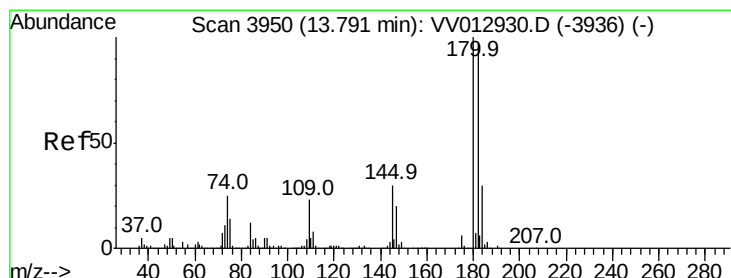
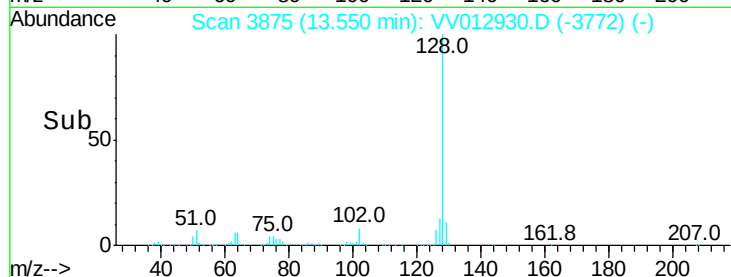
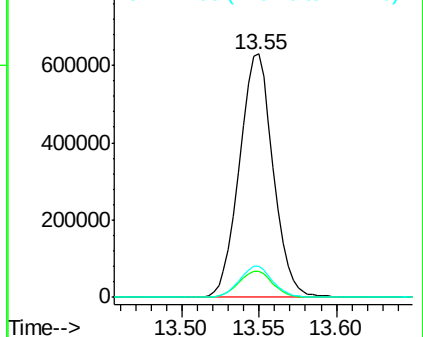
127 12.7 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.811 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012930.D

Acq: 23 Sep 2019 11:00

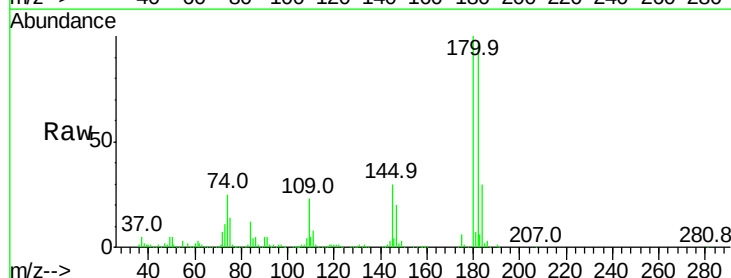
Tgt Ion:180 Resp: 428415

Ion Ratio Lower Upper

180 100

182 96.8 77.4 116.2

145 29.9 23.9 35.9



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

