

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081219\  
 Data File : VX011473.D  
 Acq On : 12 Aug 2019 11:02  
 Operator : JC/SP  
 Sample : VX0812WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0812WBL01

Quant Time: Aug 13 07:36:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 190627   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 286608   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 254383   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 114321   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 104686   | 54.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.06% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 88258    | 47.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.34%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 331211   | 46.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.78%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 109975   | 43.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.22%  |          |

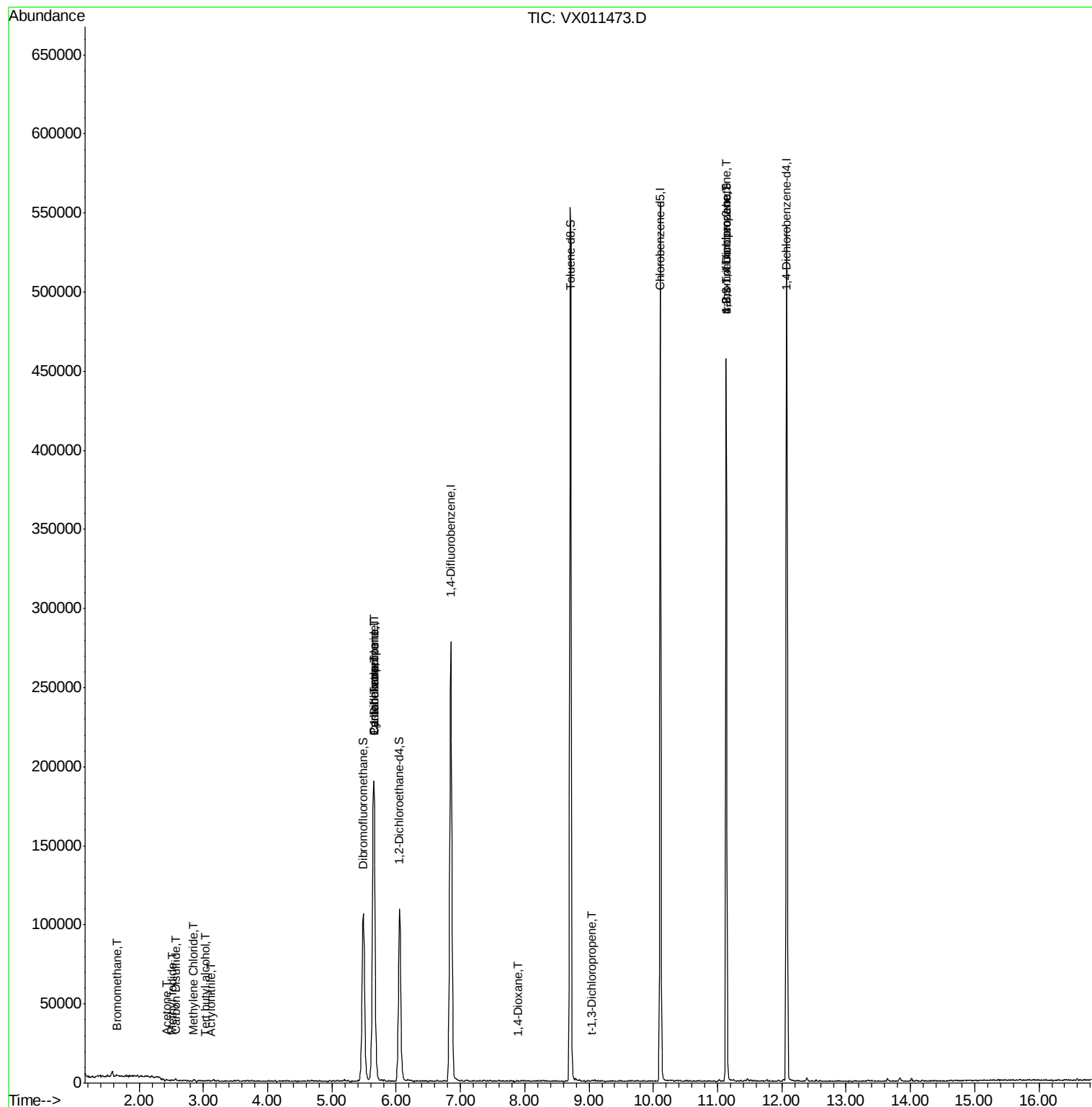
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 641      | 0.494     | ug/l   | 99     |
| 6) Chloroethane                | 1.68  | 64   | 136      | Below Cal | #      | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 566      | 0.257     | ug/l # | 88     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 94       | 0.268     | ug/l # | 1      |
| 13) Acrolein                   | 2.29  | 56   | 99       | Below Cal | #      | 1      |
| 15) Acrylonitrile              | 3.12  | 53   | 251      | 0.275     | ug/l # | 11     |
| 16) Acetone                    | 2.43  | 43   | 385      | 0.421     | ug/l   | 93     |
| 17) Carbon Disulfide           | 2.56  | 76   | 974      | 0.239     | ug/l # | 93     |
| 20) Methylene Chloride         | 2.85  | 84   | 402      | 0.201     | ug/l # | 69     |
| 31) Cyclohexane                | 5.65  | 56   | 3707     | 1.499     | ug/l # | 18     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 12789    | 5.111     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18435    | 7.323     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.90  | 88   | 41       | 0.749     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 51       | 2.856     | ug/l # | 43     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 56013    | 26.904    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 56013    | 69.864    | ug/l # | 10     |

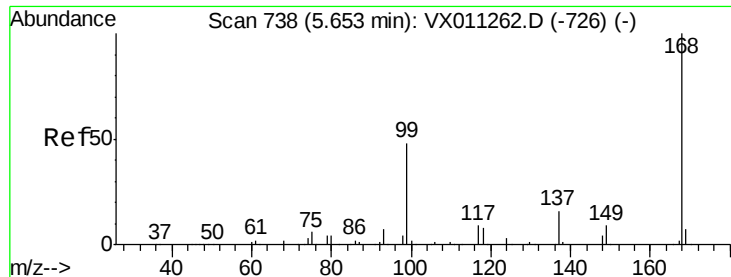
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX081219\  
Data File : VX011473.D  
Acq On : 12 Aug 2019 11:02  
Operator : JC/SP  
Sample : VX0812WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0812WBL01

Quant Time: Aug 13 07:36:45 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

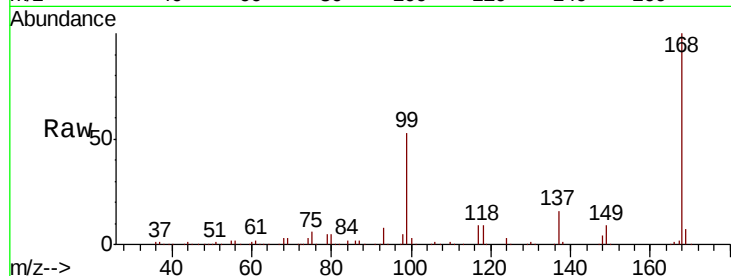
VX0812WBL01

Tgt Ion:168 Resp: 190627

Ion Ratio Lower Upper

168 100

99 52.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

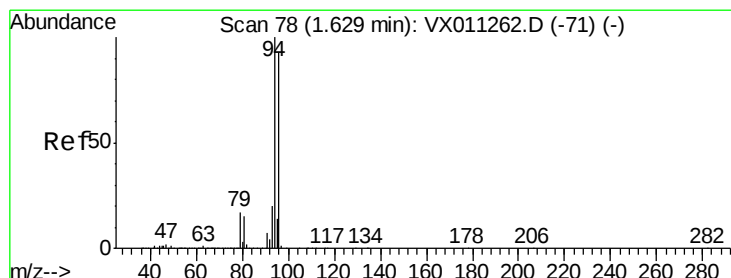
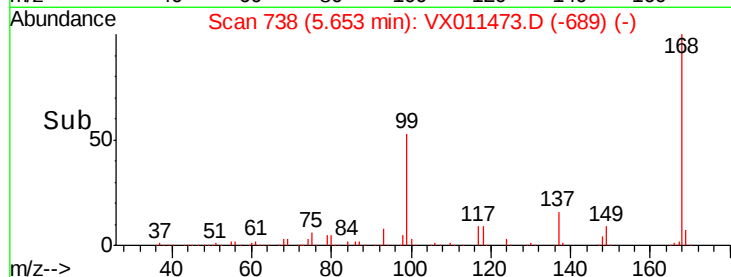
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.494 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011473.D

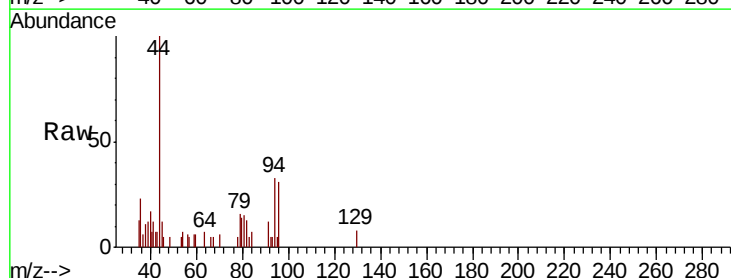
Acq: 12 Aug 2019 11:02

Tgt Ion: 94 Resp: 641

Ion Ratio Lower Upper

94 100

96 92.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

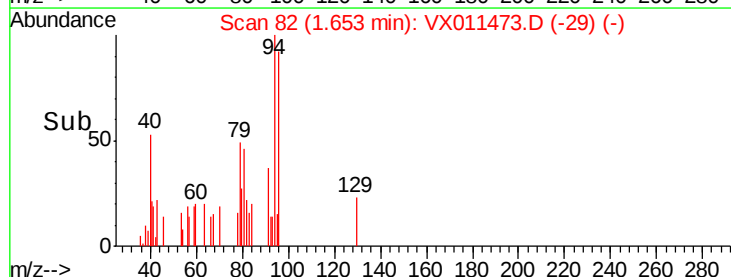
200

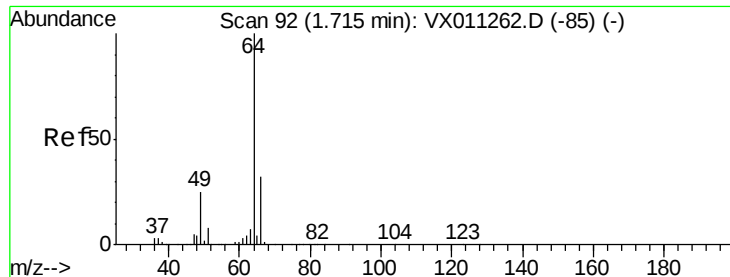
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

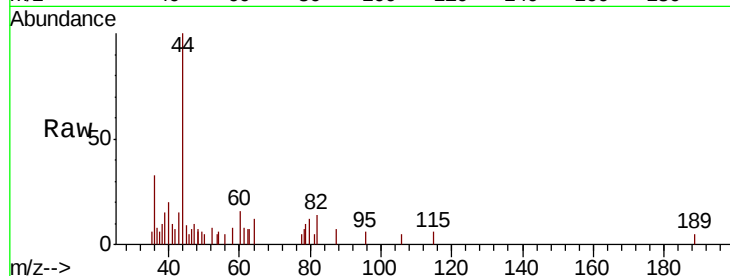
VX0812WBL01

Tgt Ion: 64 Resp: 136

Ion Ratio Lower Upper

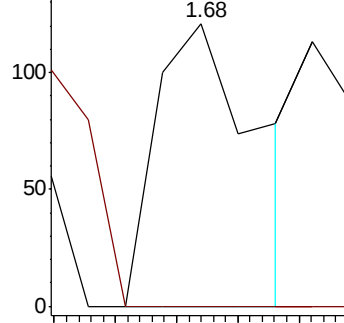
64 100

66 0.0 25.1 37.7#

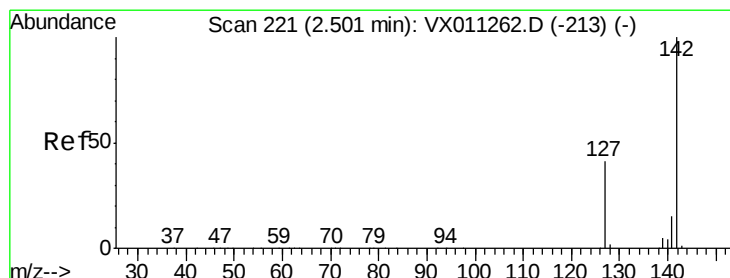
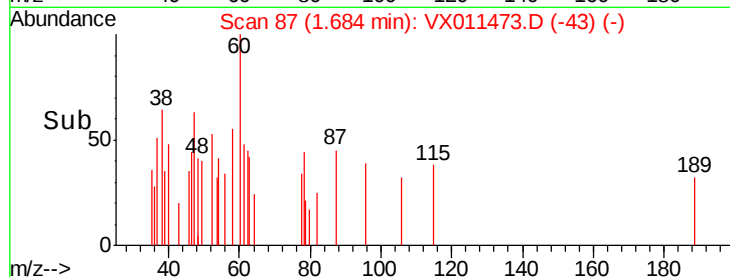


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time--> 1.66 1.67 1.68 1.69 1.70



#10

Methyl Iodide

Concen: 0.257 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.02 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

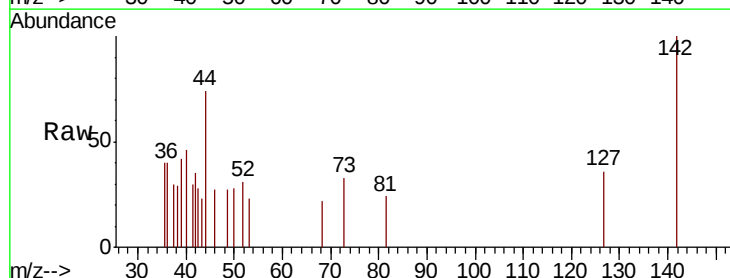
Tgt Ion: 142 Resp: 566

Ion Ratio Lower Upper

142 100

127 50.4 33.8 50.8

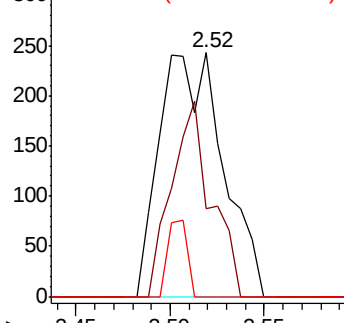
141 9.7 11.4 17.2#



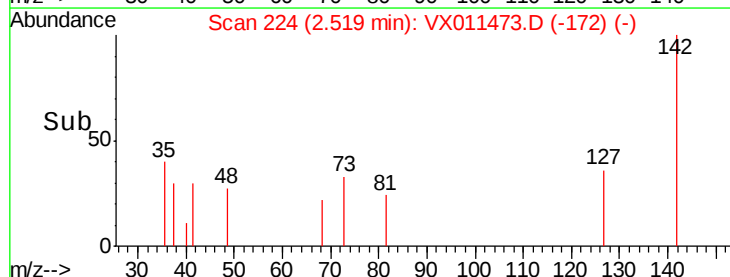
Abundance Ion 141.80 (141.50 to 142.50): V

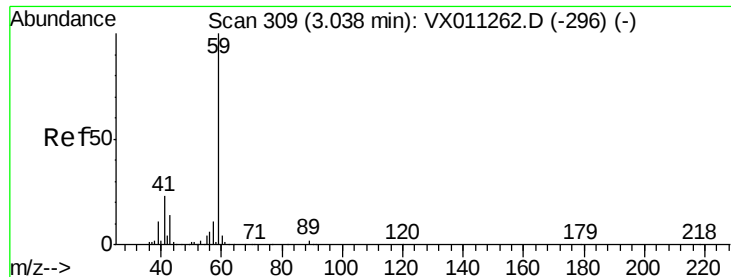
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time--> 2.45 2.50 2.55

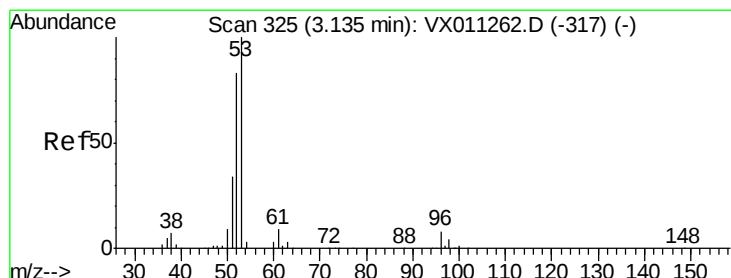
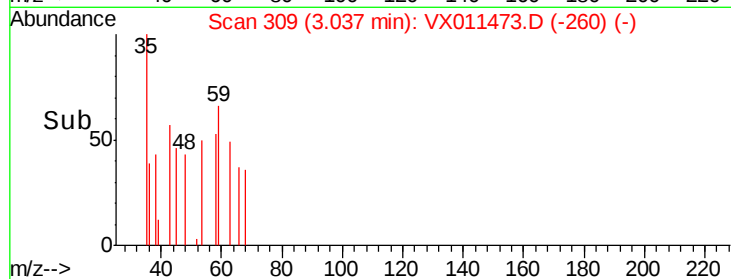
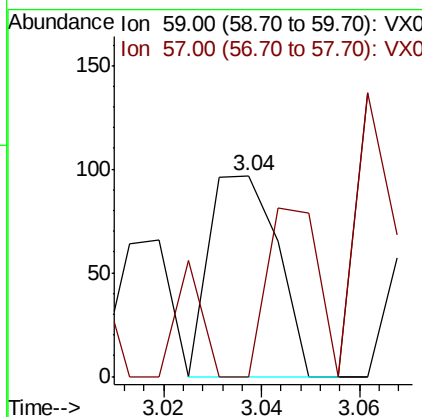
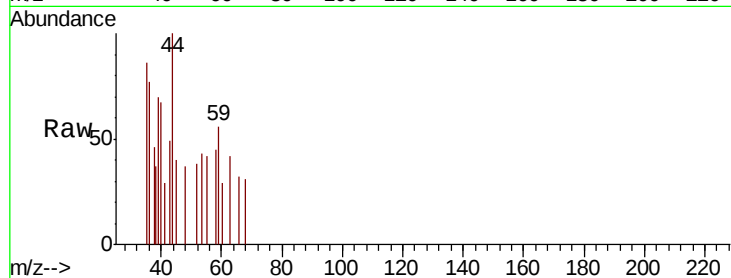




#11  
Tert butyl alcohol  
Concen: 0.268 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. 0.00 min  
Lab File: VX011473.D  
Acq: 12 Aug 2019 11:02

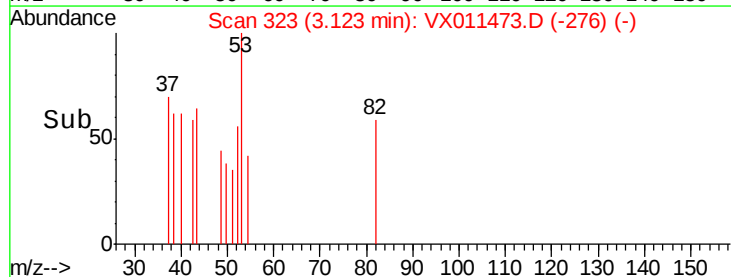
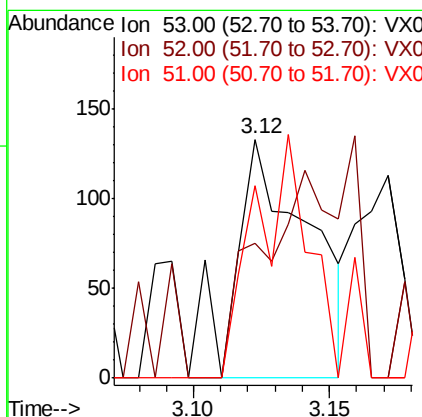
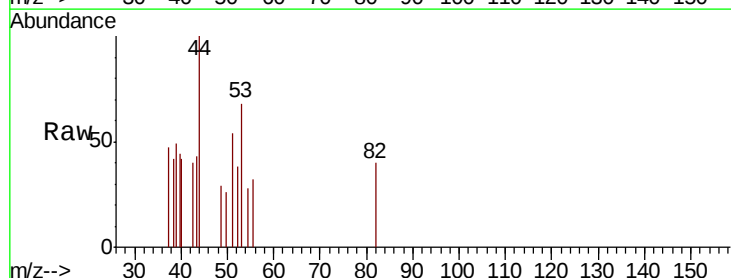
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0812WBL01

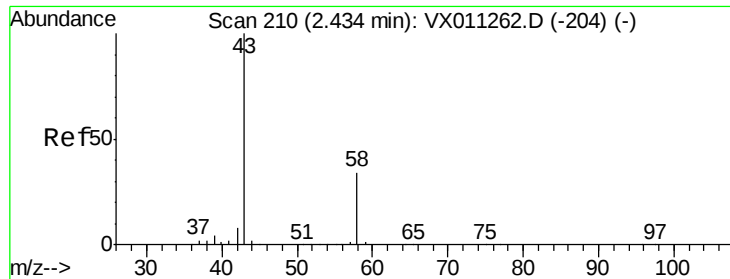
Tgt Ion: 59 Resp: 94  
Ion Ratio Lower Upper  
59 100  
57 62.8 8.3 12.5#



#15  
Acrylonitrile  
Concen: 0.275 ug/l  
RT: 3.12 min Scan# 323  
Delta R.T. -0.01 min  
Lab File: VX011473.D  
Acq: 12 Aug 2019 11:02

Tgt Ion: 53 Resp: 251  
Ion Ratio Lower Upper  
53 100  
52 0.0 65.5 98.3#  
51 82.9 27.9 41.9#





#16

Acetone

Concen: 0.421 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

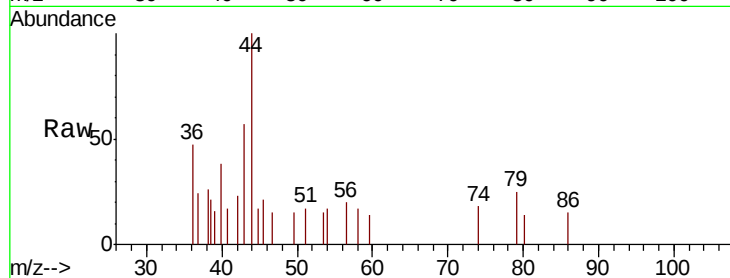
VX0812WBL01

Tgt Ion: 43 Resp: 385

Ion Ratio Lower Upper

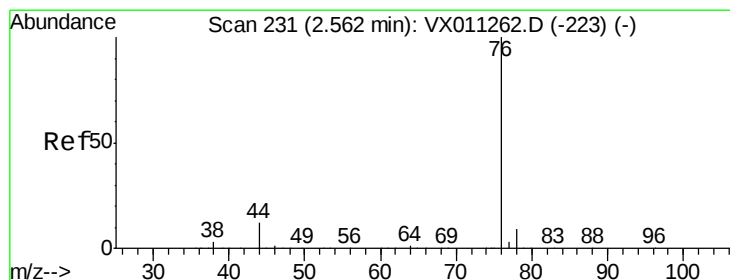
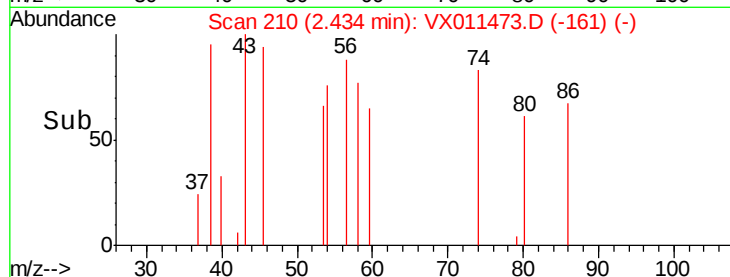
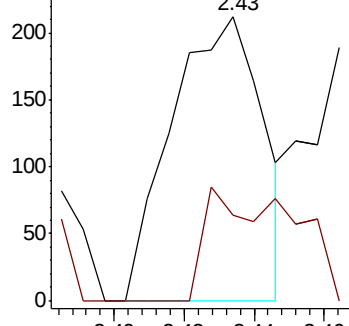
43 100

58 30.2 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.239 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011473.D

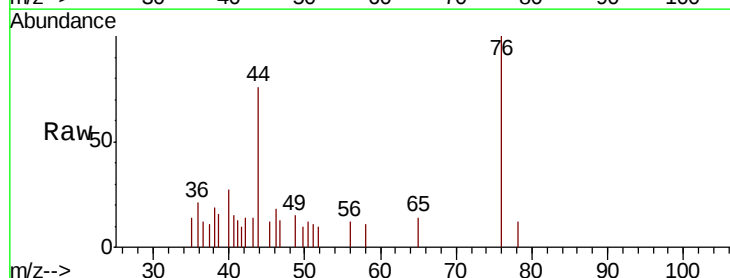
Acq: 12 Aug 2019 11:02

Tgt Ion: 76 Resp: 974

Ion Ratio Lower Upper

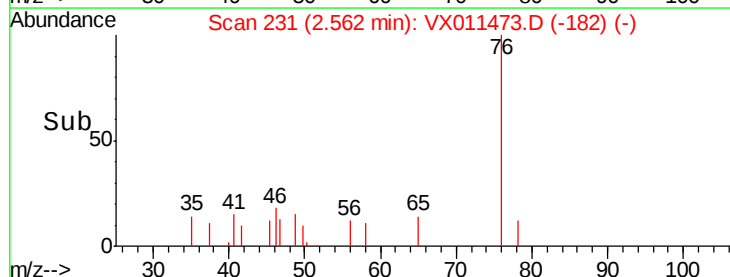
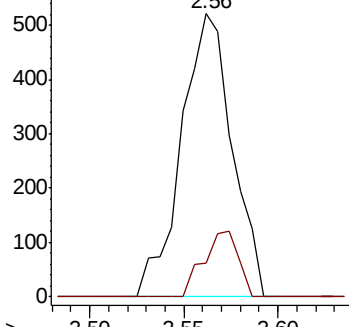
76 100

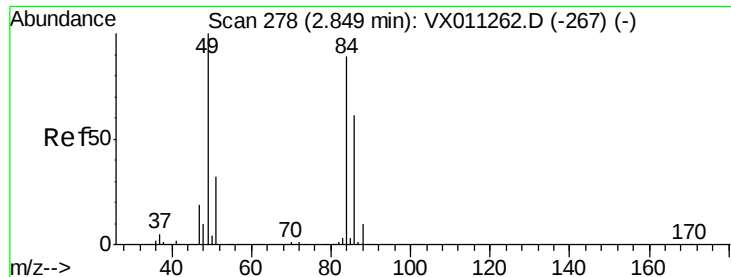
78 11.9 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

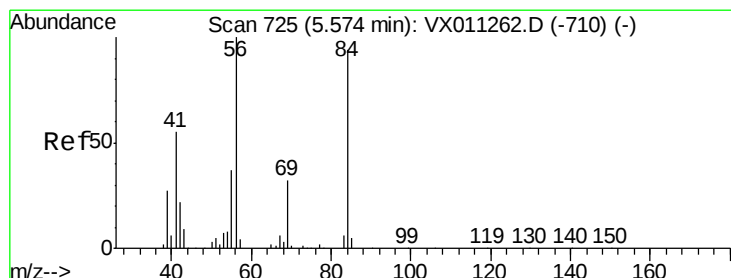
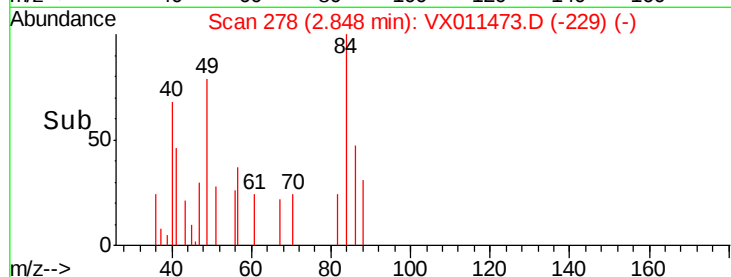
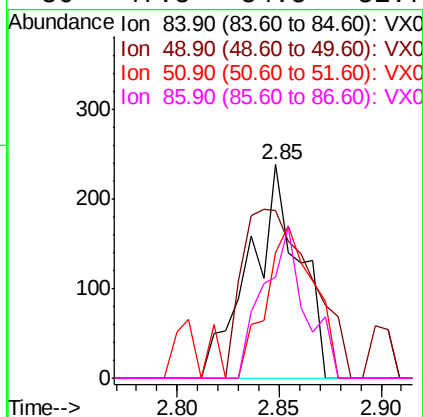
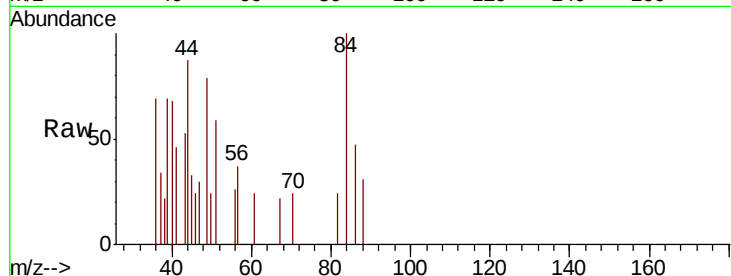




#20  
Methylene Chloride  
Concen: 0.201 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. -0.00 min  
Lab File: VX011473.D  
Acq: 12 Aug 2019 11:02

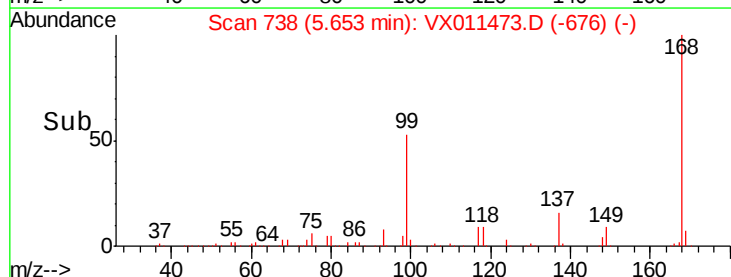
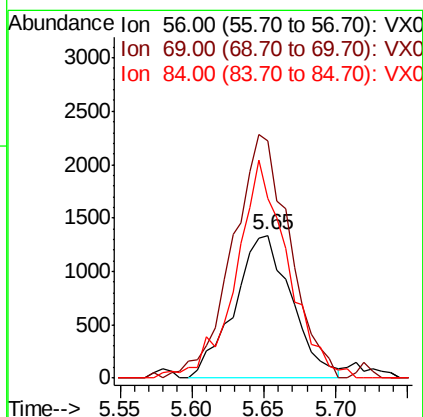
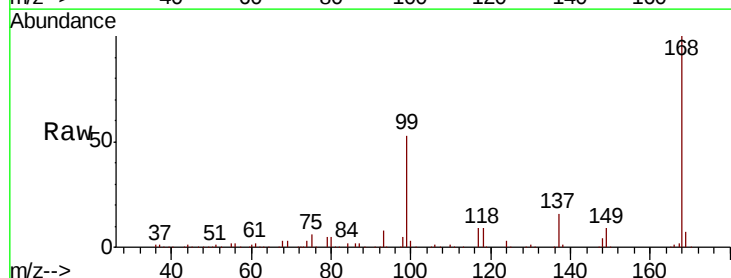
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0812WBL01

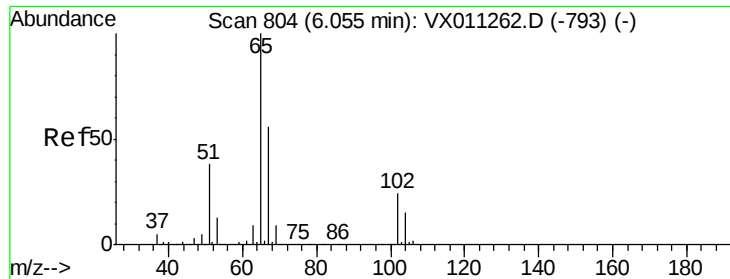
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 402    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 78.6  | 89.3  | 133.9# |
| 51       | 58.8  | 28.3  | 42.5#  |
| 86       | 47.5  | 54.5  | 81.7#  |



#31  
Cyclohexane  
Concen: 1.499 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. 0.08 min  
Lab File: VX011473.D  
Acq: 12 Aug 2019 11:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3707   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 165.8 | 25.5  | 38.3#  |
| 84       | 120.3 | 75.0  | 112.4# |

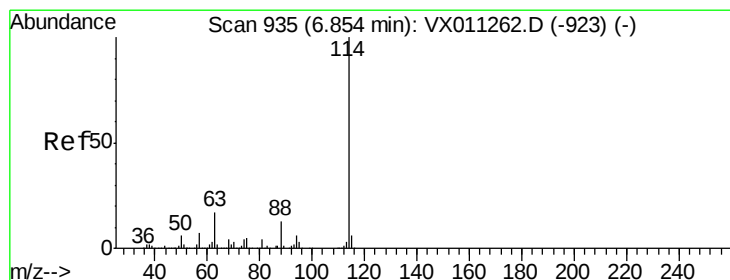
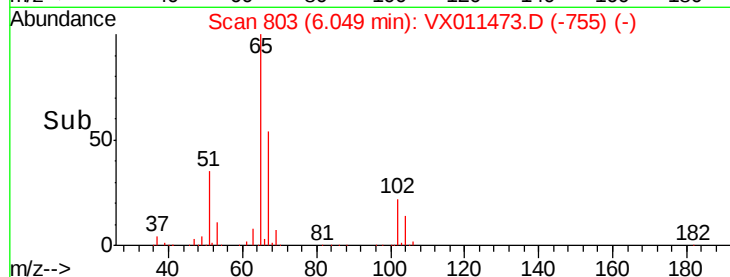
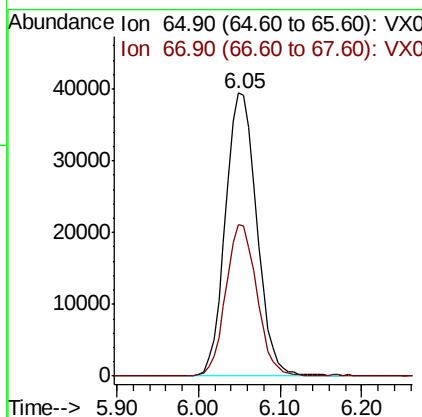
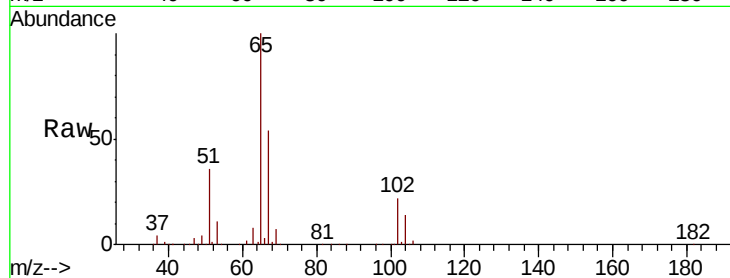




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.532 ug/l  
 RT: 6.05 min Scan# 803  
 Delta R.T. -0.01 min  
 Lab File: VX011473.D  
 Acq: 12 Aug 2019 11:02

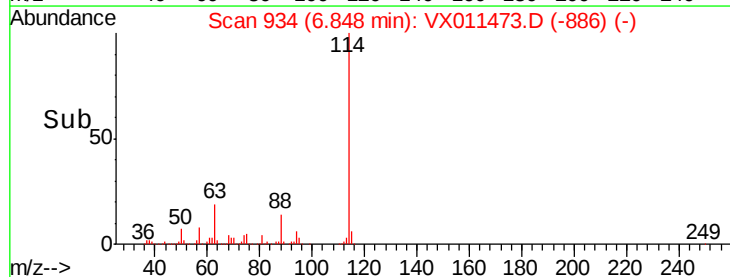
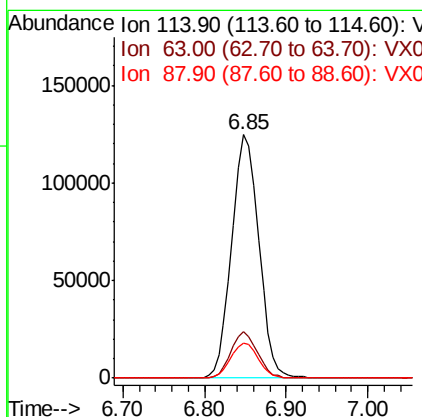
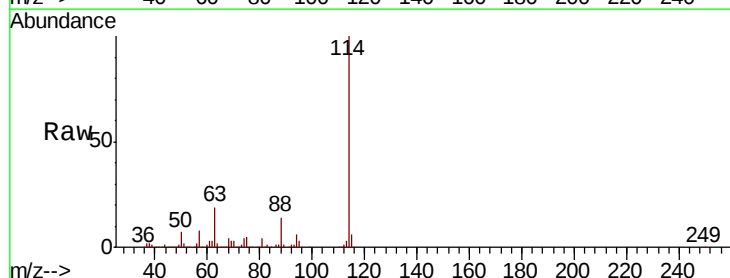
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0812WBL01

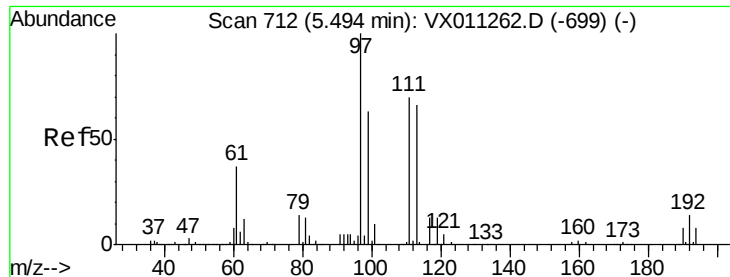
Tgt Ion: 65 Resp: 104686  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 934  
 Delta R.T. -0.01 min  
 Lab File: VX011473.D  
 Acq: 12 Aug 2019 11:02

Tgt Ion: 114 Resp: 286608  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 34.0  
 88 14.5 0.0 26.4

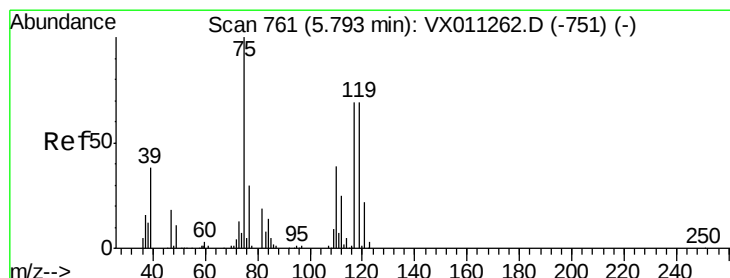
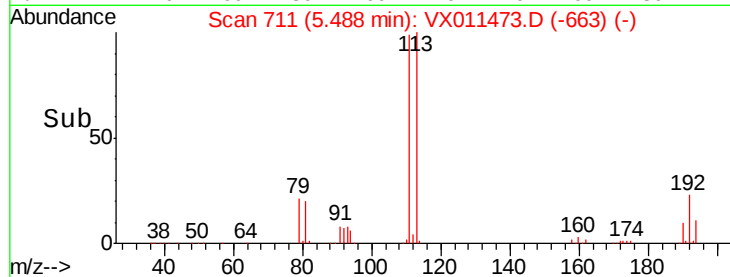
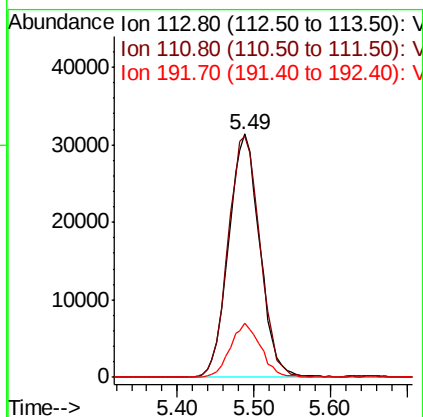
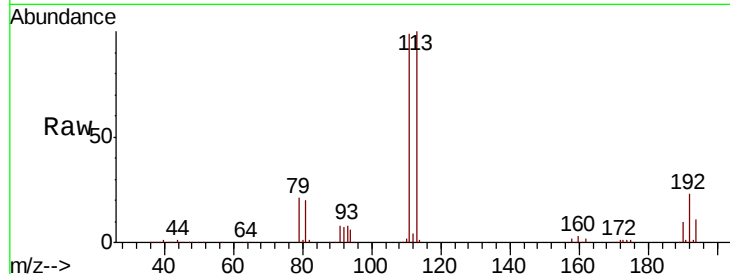




#35  
 Dibromofluoromethane  
 Concen: 47.167 ug/l  
 RT: 5.49 min Scan# 711  
 Delta R.T. -0.01 min  
 Lab File: VX011473.D  
 Acq: 12 Aug 2019 11:02

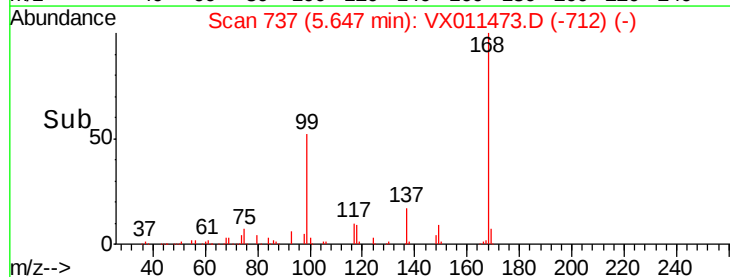
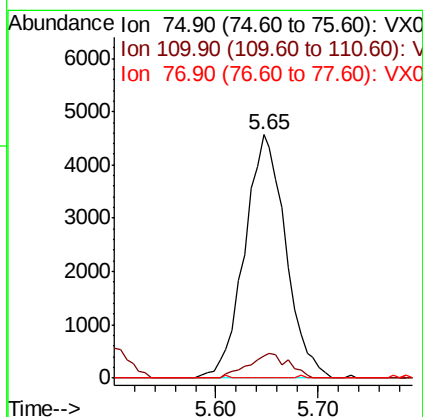
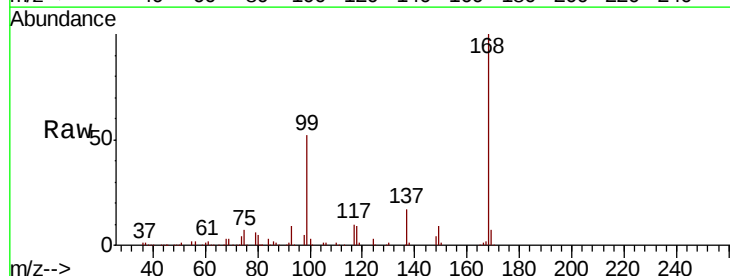
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0812WBL01

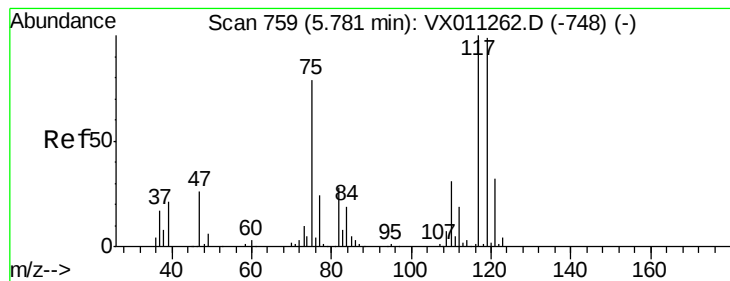
Tgt Ion:113 Resp: 88258  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 81.9 122.9  
 192 21.9 17.8 26.8



#36  
 1,1-Dichloropropene  
 Concen: 5.111 ug/l  
 RT: 5.65 min Scan# 737  
 Delta R.T. -0.15 min  
 Lab File: VX011473.D  
 Acq: 12 Aug 2019 11:02

Tgt Ion: 75 Resp: 12789  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 20.0 59.9#  
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.323 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.13 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX0812WBL01

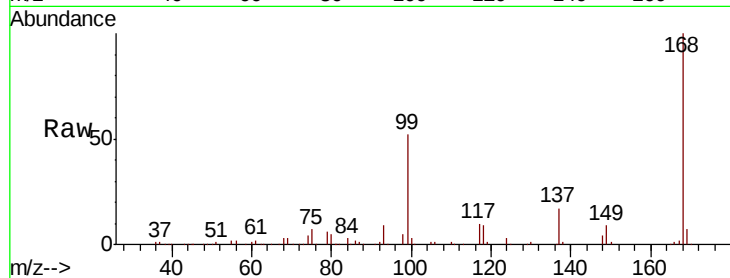
Tgt Ion: 117 Resp: 18435

Ion Ratio Lower Upper

117 100

119 5.9 79.0 118.4#

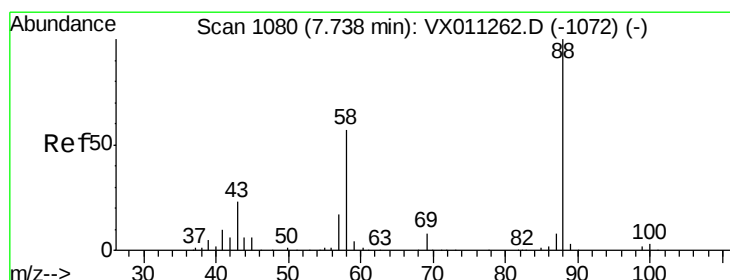
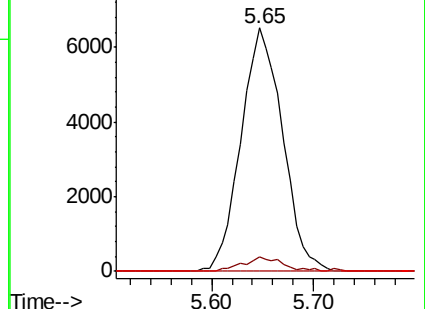
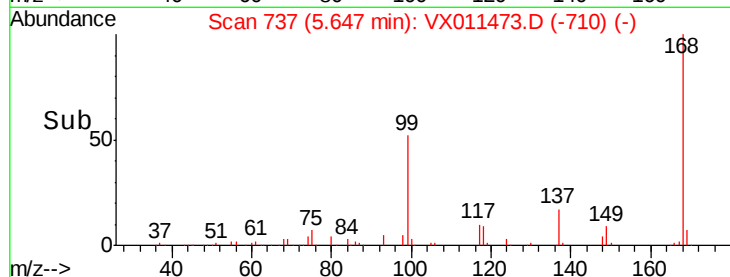
121 0.0 25.9 38.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.749 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.16 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

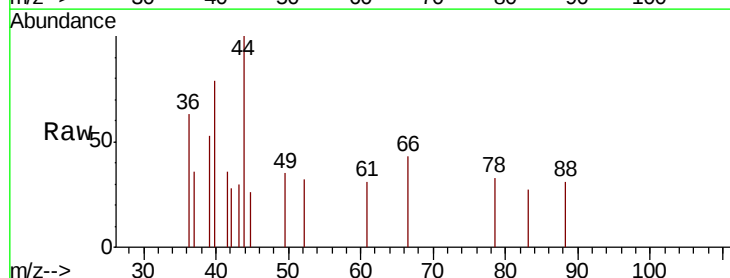
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 336.6 22.2 33.2#

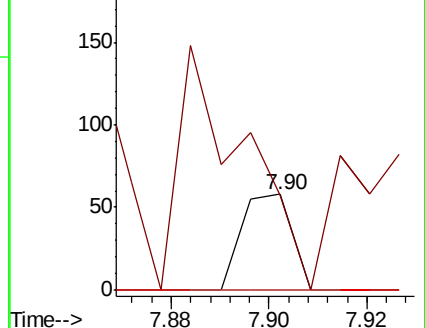
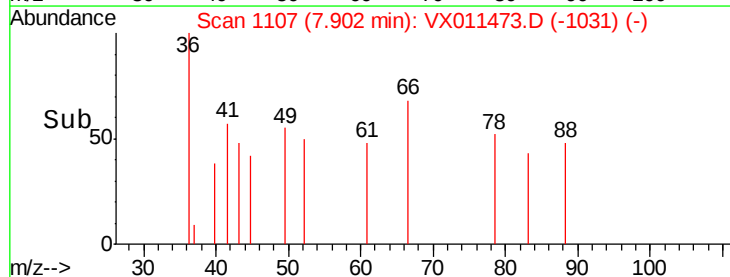
58 0.0 47.8 71.8#

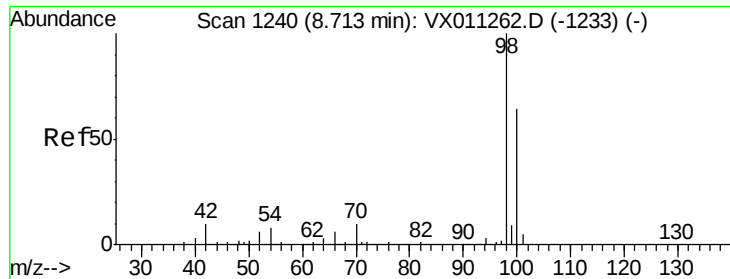


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 46.892 ug/l

RT: 8.71 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

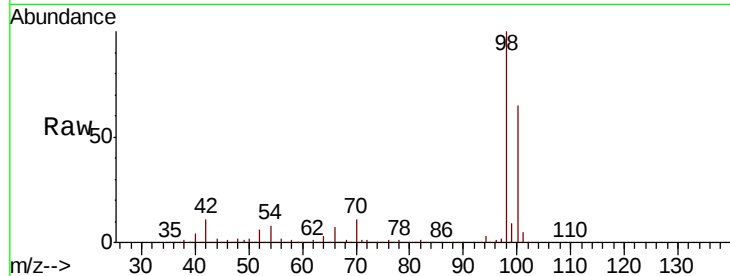
VX0812WBL01

Tgt Ion: 98 Resp: 331211

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

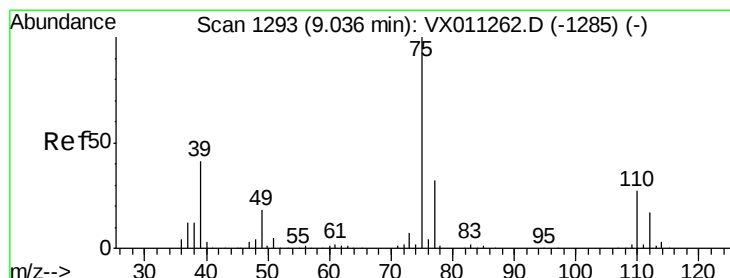
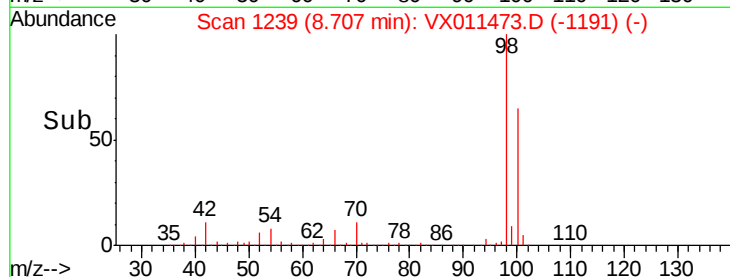
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.856 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.01 min

Lab File: VX011473.D

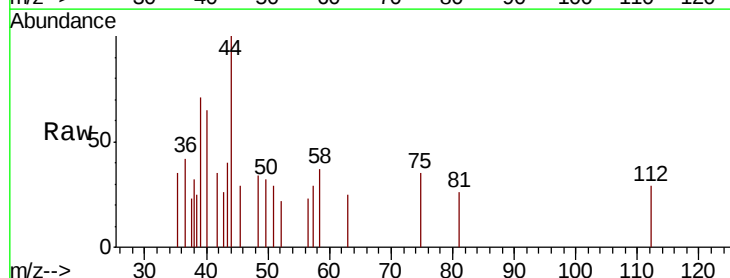
Acq: 12 Aug 2019 11:02

Tgt Ion: 75 Resp: 51

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

80

60

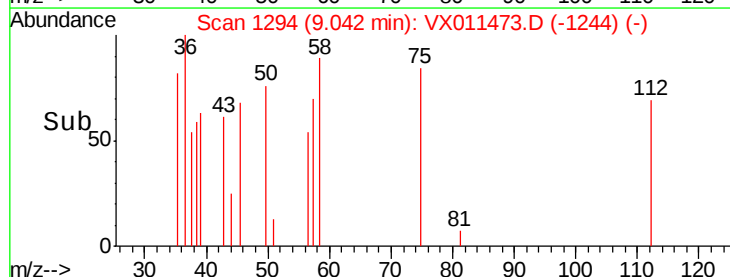
40

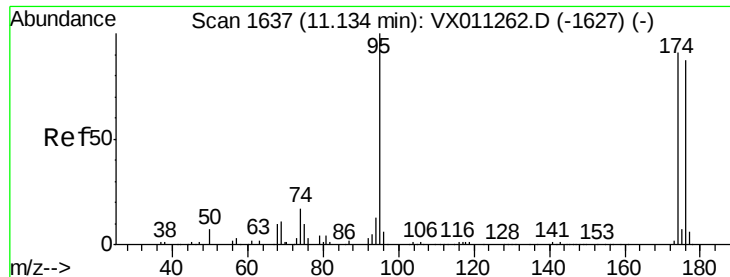
20

0

9.02 9.04 9.06

Time-->





#62

4-Bromofluorobenzene

Concen: 43.610 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX0812WBL01

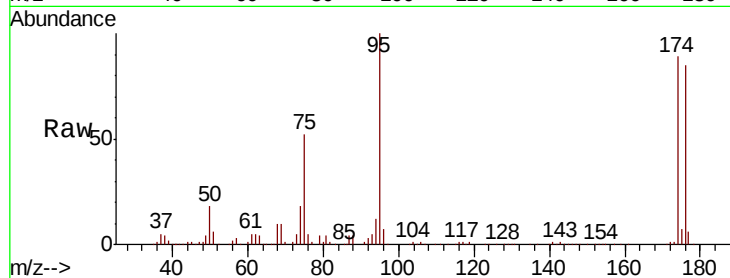
Tgt Ion: 95 Resp: 109975

Ion Ratio Lower Upper

95 100

174 91.1 0.0 191.2

176 87.2 0.0 184.8



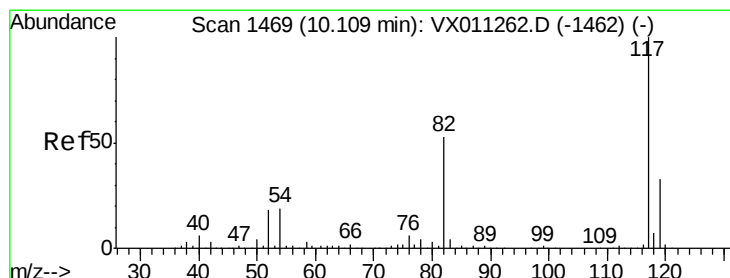
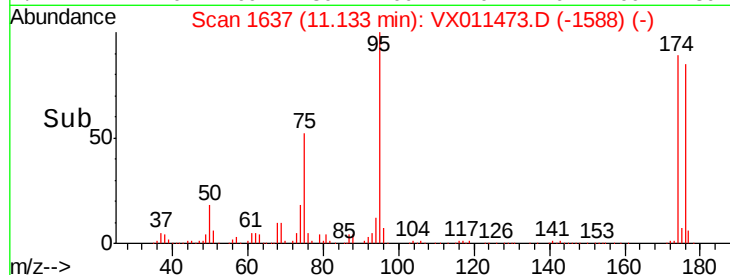
Abundance Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)

11.13

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

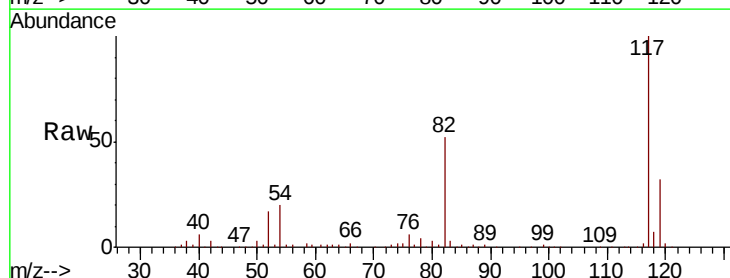
Tgt Ion: 117 Resp: 254383

Ion Ratio Lower Upper

117 100

82 51.5 42.2 63.2

119 32.0 26.6 39.8



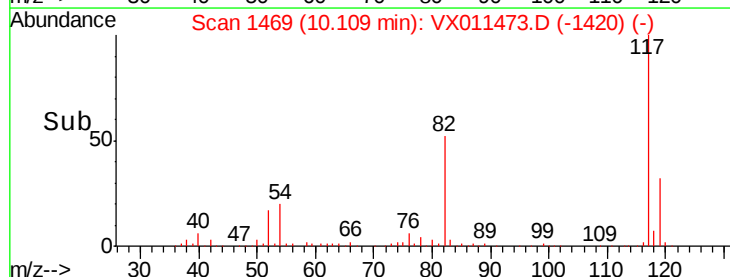
Abundance Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

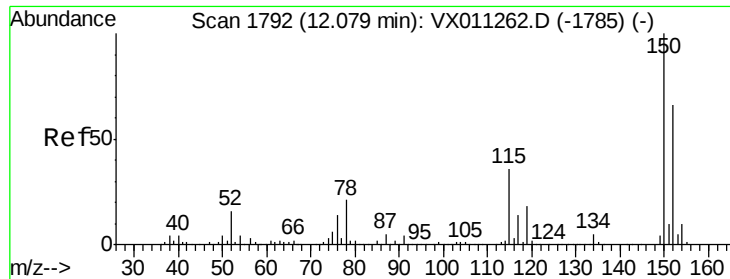
Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)

10.11

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX0812WBL01

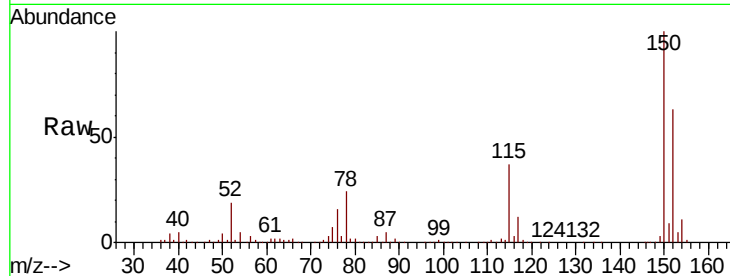
Tgt Ion:152 Resp: 114321

Ion Ratio Lower Upper

152 100

115 57.1 40.0 119.9

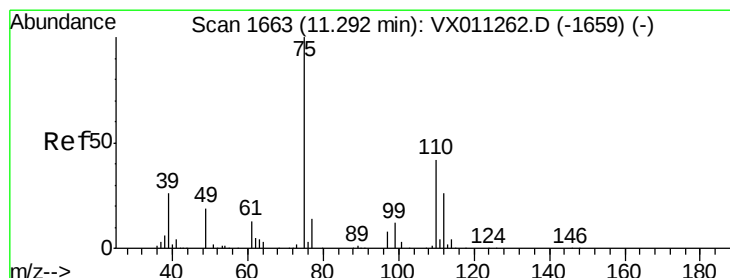
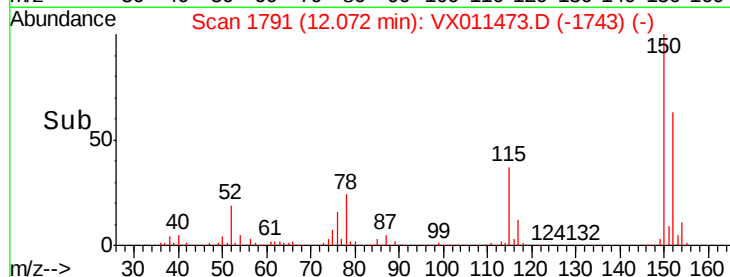
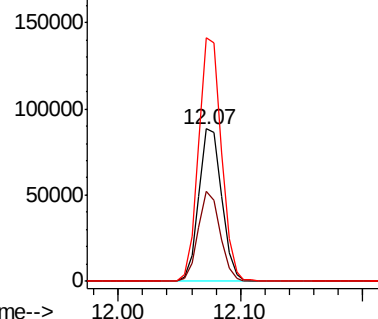
150 159.3 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.904 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011473.D

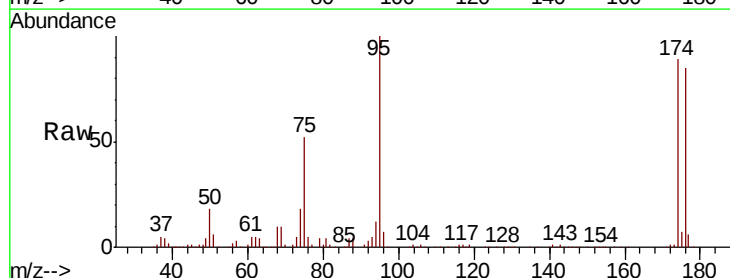
Acq: 12 Aug 2019 11:02

Tgt Ion: 75 Resp: 56013

Ion Ratio Lower Upper

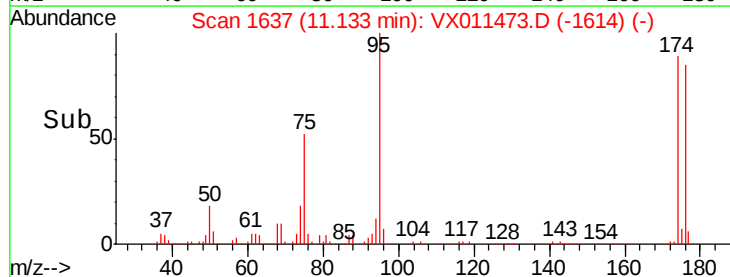
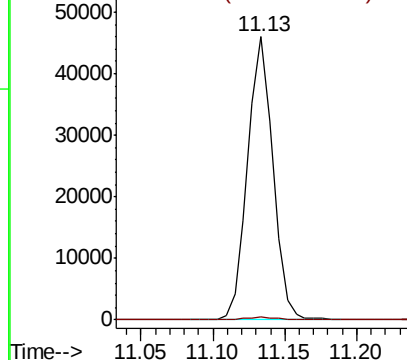
75 100

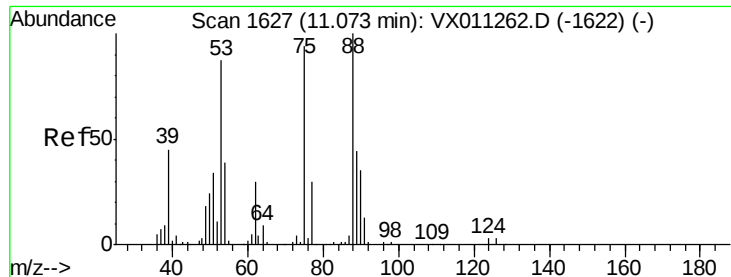
77 1.2 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.864 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011473.D

Acq: 12 Aug 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX0812WBL01

Tgt Ion: 75 Resp: 56013

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#

