

Data File : VX012179.D  
Acq On : 07 Sep 2019 16:35  
Operator : SY/SP  
Sample : K4602-07  
Misc : 1.75g/5.0mL/MSVOA\_X/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-G4-(2.7)

Quant Time: Sep 08 07:43:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 104813   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 185182   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 160950   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 65313    | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 79821    | 55.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.38% |      |
| 35) Dibromofluoromethane  | 5.48   | 113 | 56258    | 49.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.80%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 216769   | 51.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.74% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 86098    | 44.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.60%  |      |

Target Compounds

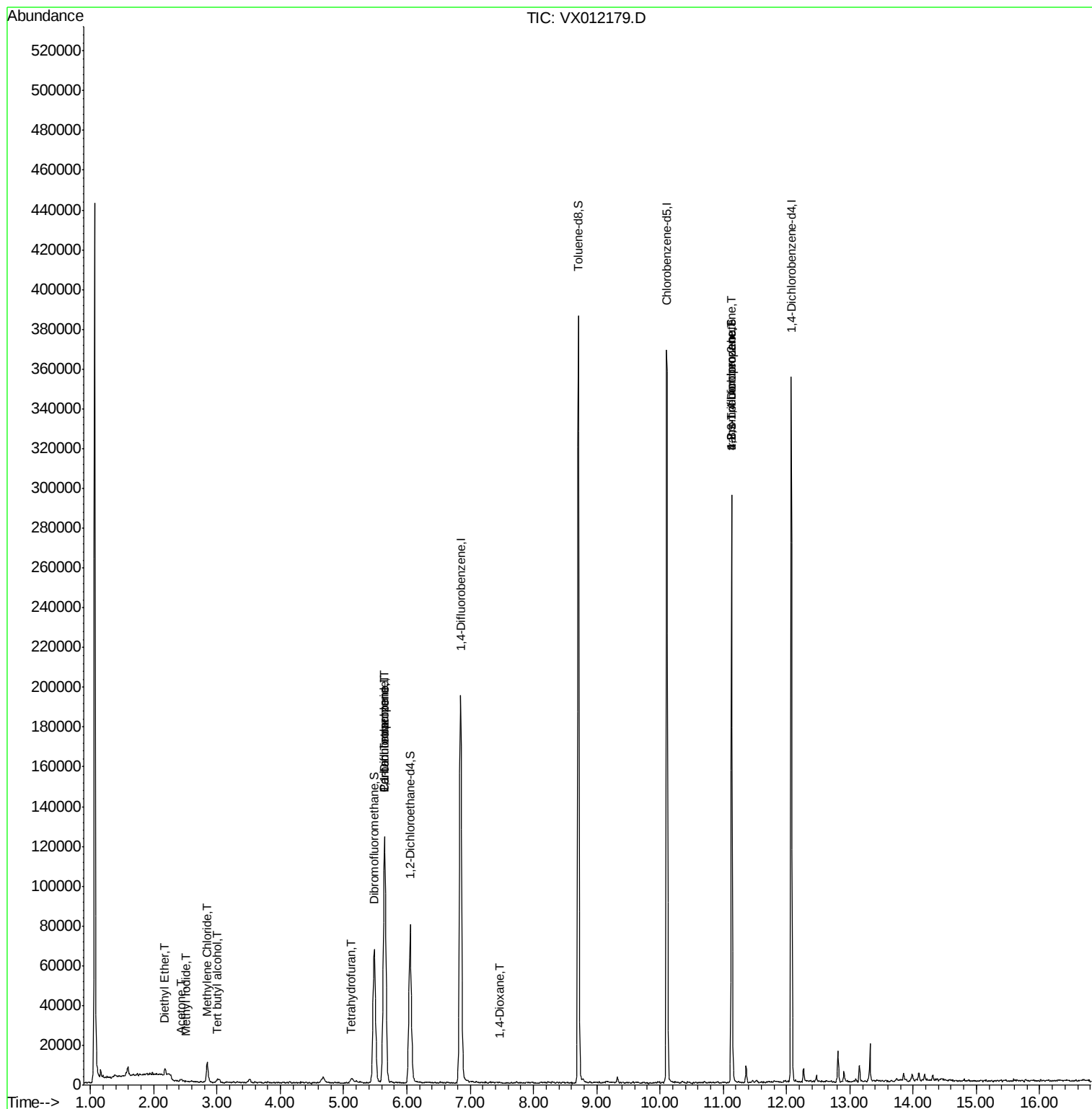
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.17  | 74  | 830   | 1.660     | ug/l   | 100    |
| 10) Methyl Iodide              | 2.51  | 142 | 44    | 7.023     | ug/l # | 40     |
| 11) Tert butyl alcohol         | 3.01  | 59  | 1065  | 7.667     | ug/l # | 76     |
| 13) Acrolein                   | 2.29  | 56  | 140   | Below Cal | #      | 12     |
| 16) Acetone                    | 2.43  | 43  | 1598  | 4.623     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.84  | 84  | 4839  | 3.486     | ug/l   | 93     |
| 29) Tetrahydrofuran            | 5.12  | 42  | 2579  | 9.728     | ug/l # | 89     |
| 36) 1,1-Dichloropropene        | 5.64  | 75  | 9569  | 5.867     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.64  | 117 | 12296 | 7.155     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.47  | 88  | 20    | 1.618     | ug/l # | 23     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 44571 | 55.852    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 44571 | 132.042   | ug/l # | 10     |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampleId :

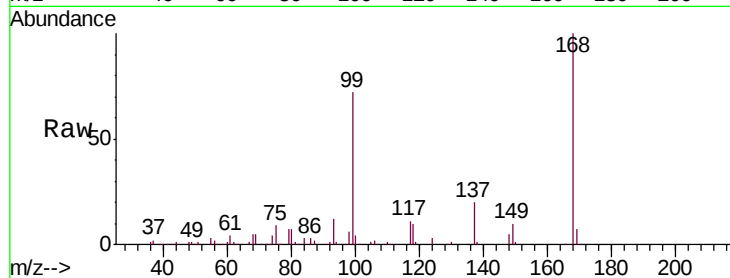
T12-G4-(2.7)

Tgt Ion:168 Resp: 104813

Ion Ratio Lower Upper

168 100

99 72.0 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

30000

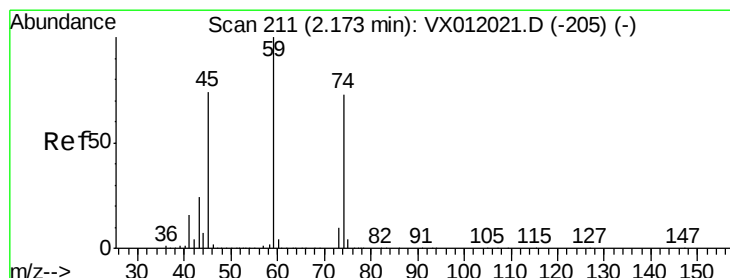
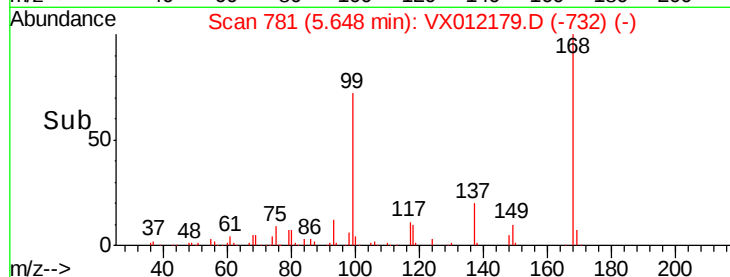
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 1.660 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012179.D

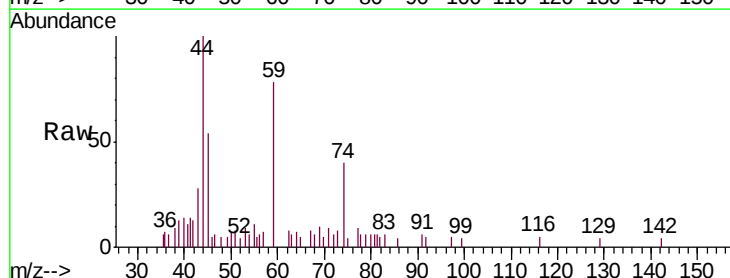
Acq: 07 Sep 2019 16:35

Tgt Ion: 74 Resp: 830

Ion Ratio Lower Upper

74 100

45 91.8 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

800

600

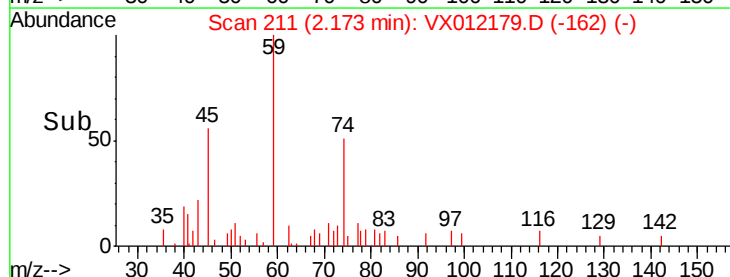
400

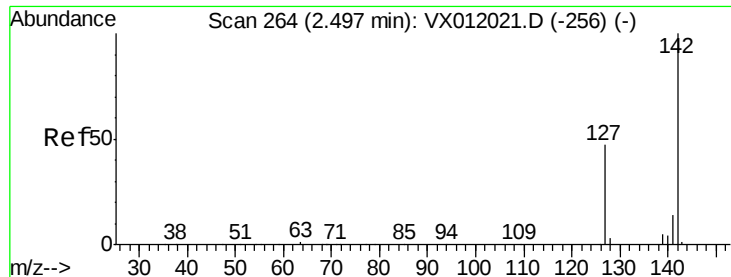
200

0

Time-->

2.10 2.15 2.20

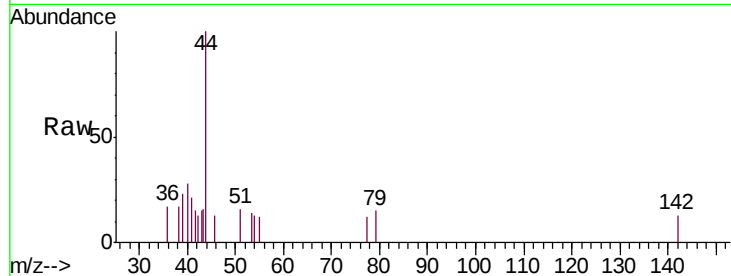




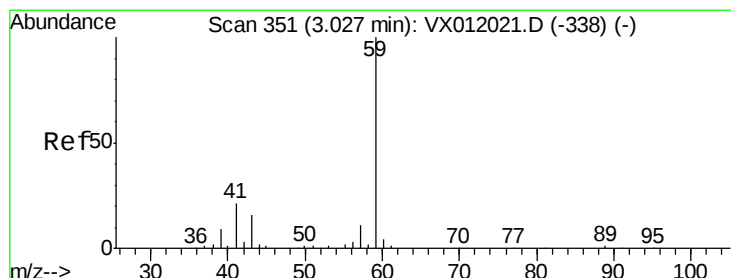
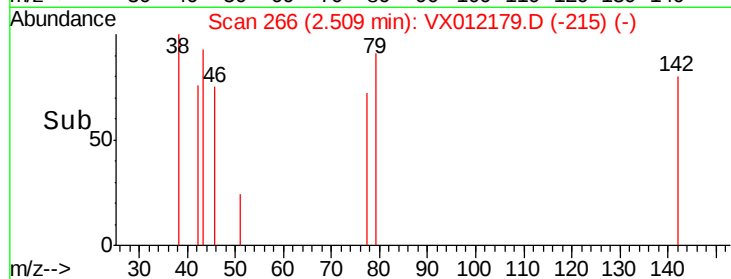
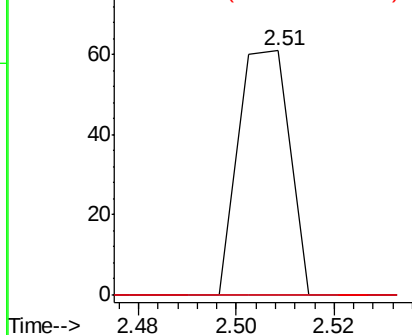
#10  
Methyl Iodide  
Concen: 7.023 ug/l  
RT: 2.51 min Scan# 266  
Delta R.T. 0.01 min  
Lab File: VX012179.D  
Acq: 07 Sep 2019 16:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-G4-(2.7)

Tgt Ion: 142 Resp: 44  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.4 53.2#  
141 0.0 11.4 17.2#

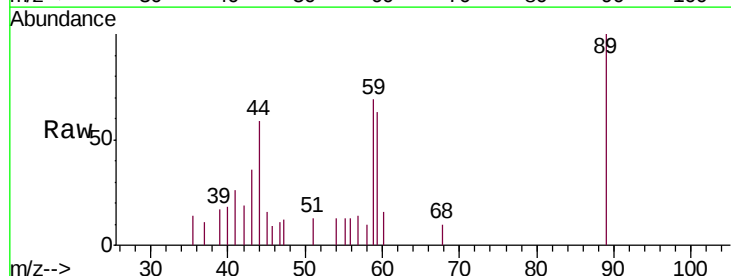


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

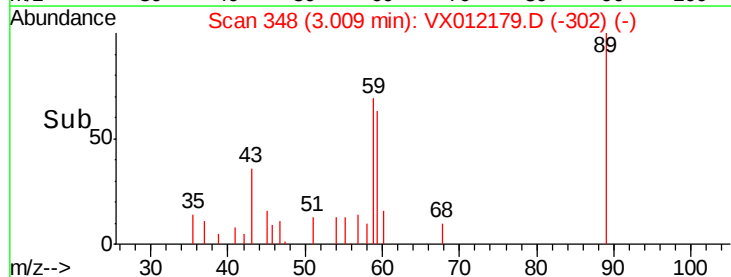
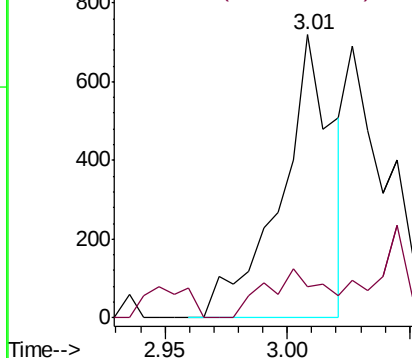


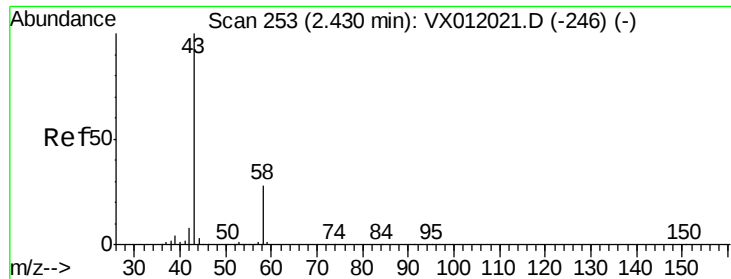
#11  
Tert butyl alcohol  
Concen: 7.667 ug/l  
RT: 3.01 min Scan# 348  
Delta R.T. -0.02 min  
Lab File: VX012179.D  
Acq: 07 Sep 2019 16:35

Tgt Ion: 59 Resp: 1065  
Ion Ratio Lower Upper  
59 100  
57 18.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.623 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampled :

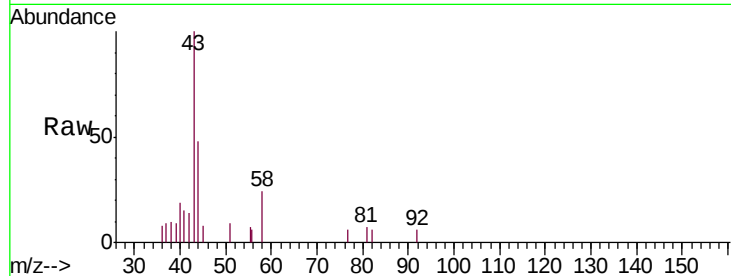
T12-G4-(2.7)

Tgt Ion: 43 Resp: 1598

Ion Ratio Lower Upper

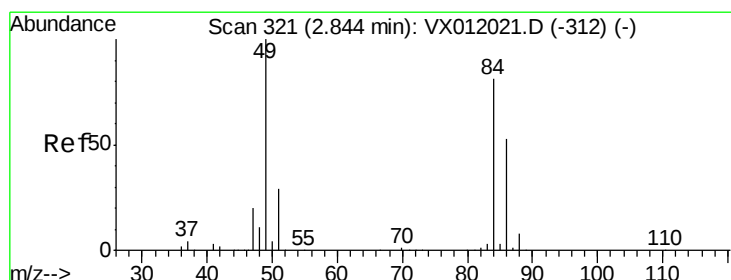
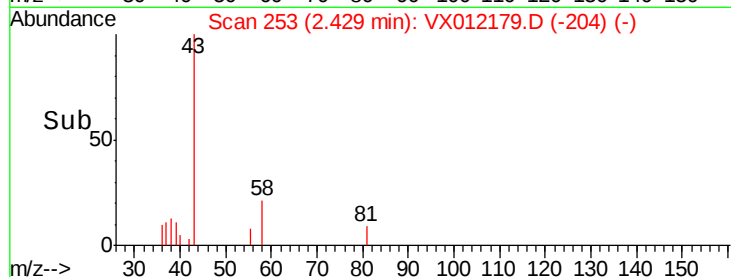
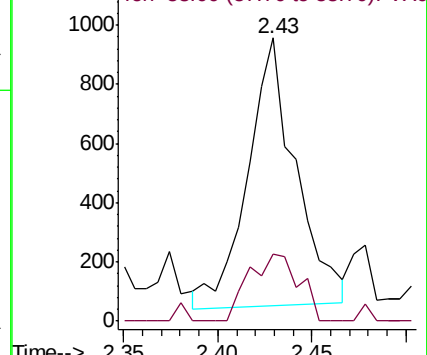
43 100

58 26.2 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 3.486 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Tgt Ion: 84 Resp: 4839

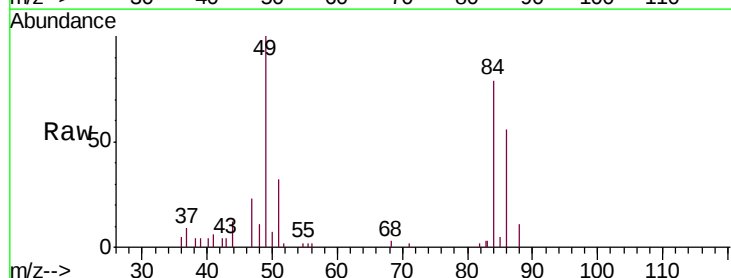
Ion Ratio Lower Upper

84 100

49 126.1 95.8 143.8

51 39.9 28.6 43.0

86 70.7 50.9 76.3

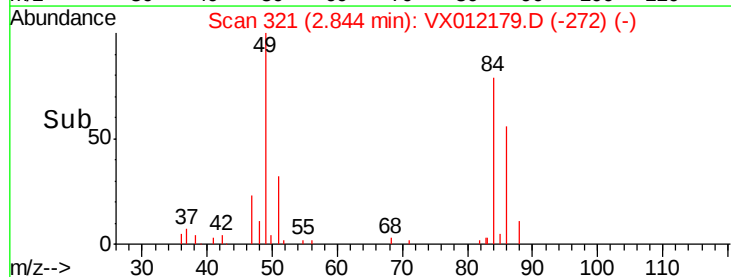
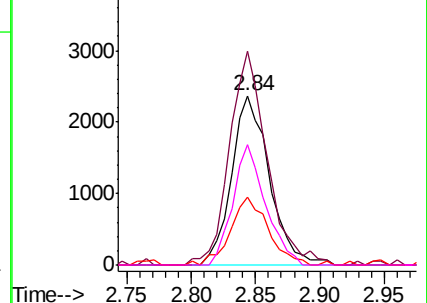


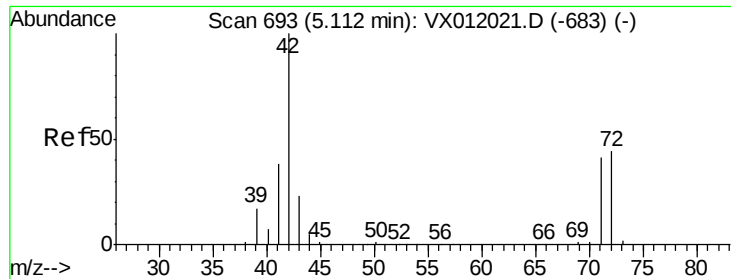
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

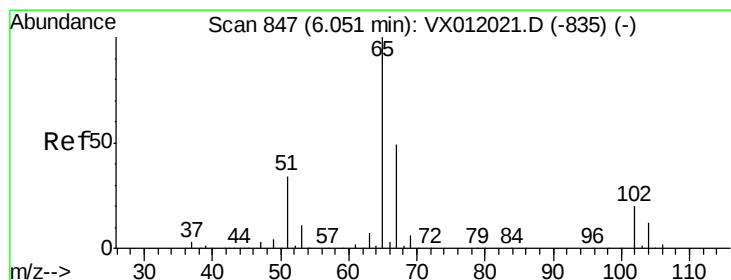
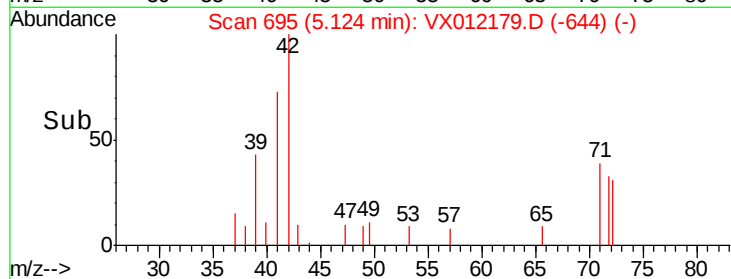
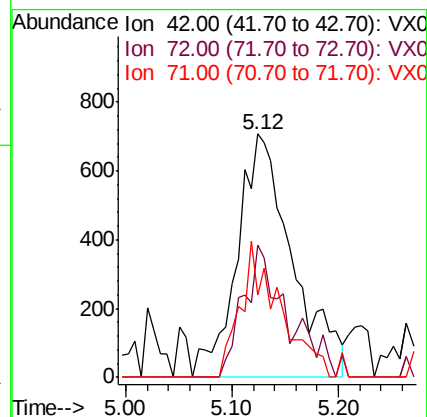
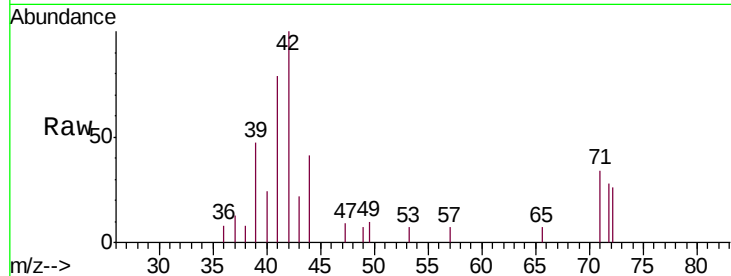




#29  
Tetrahydrofuran  
Concen: 9.728 ug/l  
RT: 5.12 min Scan# 695  
Delta R.T. 0.01 min  
Lab File: VX012179.D  
Acq: 07 Sep 2019 16:35

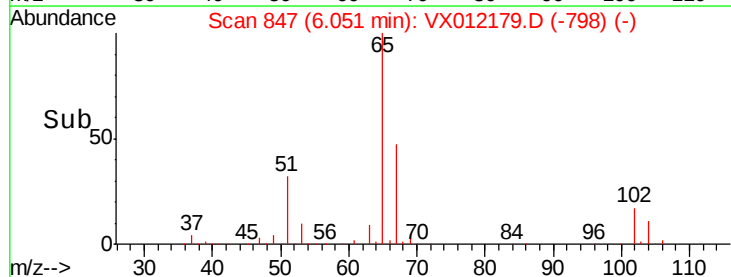
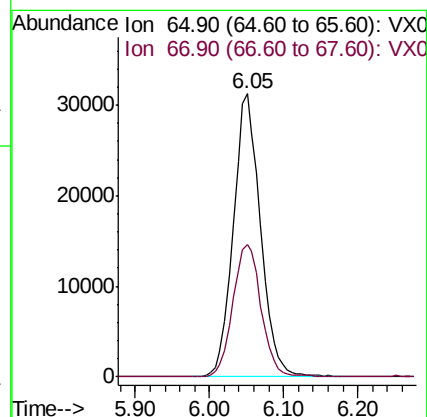
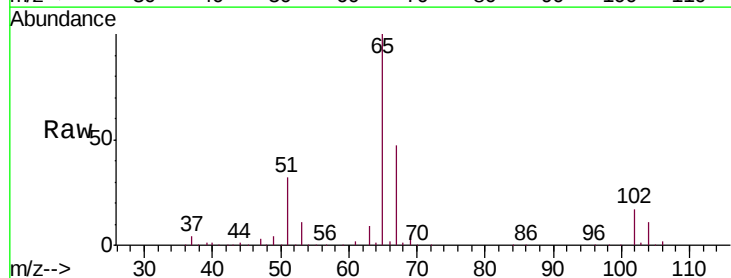
Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-G4-(2.7)

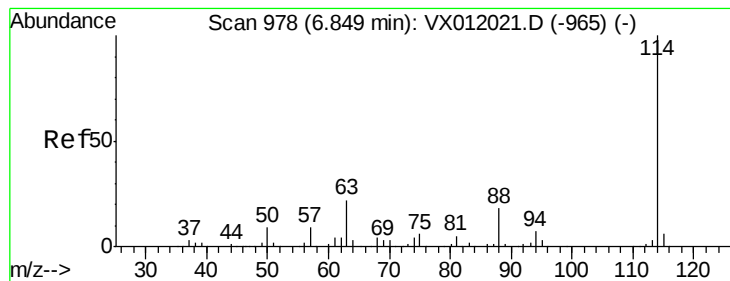
Tgt Ion: 42 Resp: 2579  
Ion Ratio Lower Upper  
42 100  
72 35.5 37.0 55.4#  
71 39.3 33.8 50.8



#33  
1,2-Dichloroethane-d4  
Concen: 55.193 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX012179.D  
Acq: 07 Sep 2019 16:35

Tgt Ion: 65 Resp: 79821  
Ion Ratio Lower Upper  
65 100  
67 49.0 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampleId :

T12-G4-(2.7)

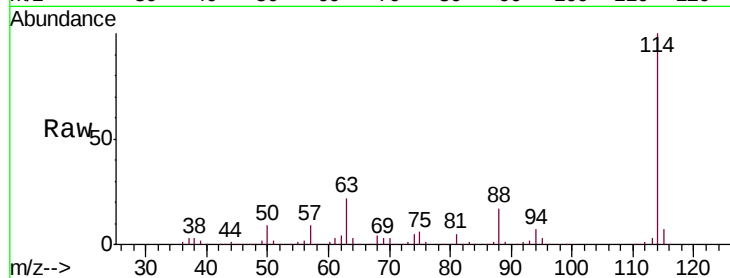
Tgt Ion:114 Resp: 185182

Ion Ratio Lower Upper

114 100

63 22.1 0.0 37.4

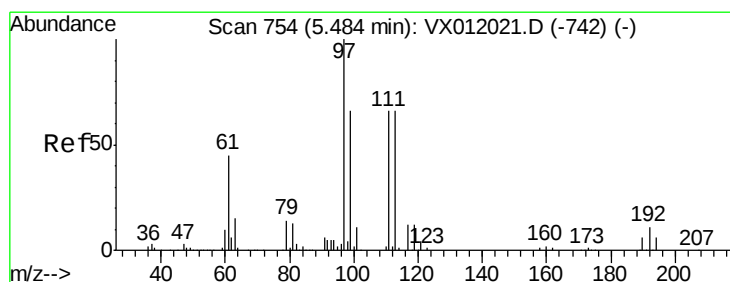
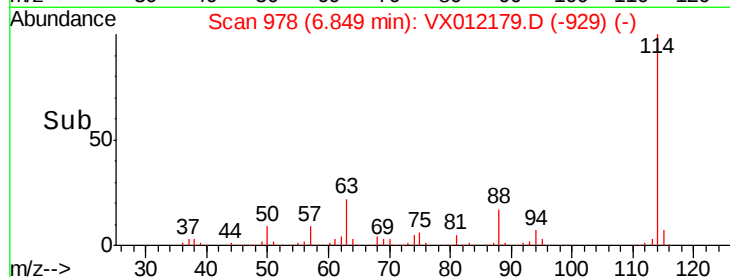
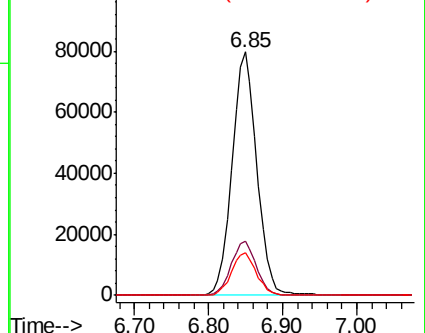
88 17.4 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.400 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

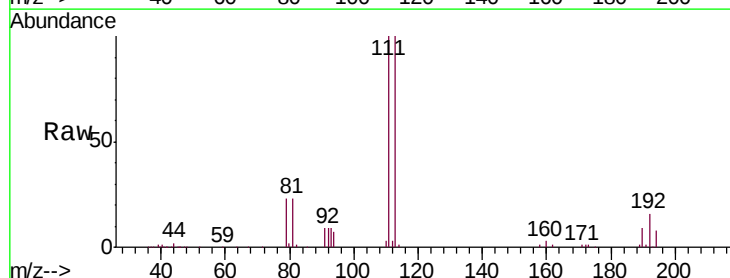
Tgt Ion:113 Resp: 56258

Ion Ratio Lower Upper

113 100

111 102.2 81.7 122.5

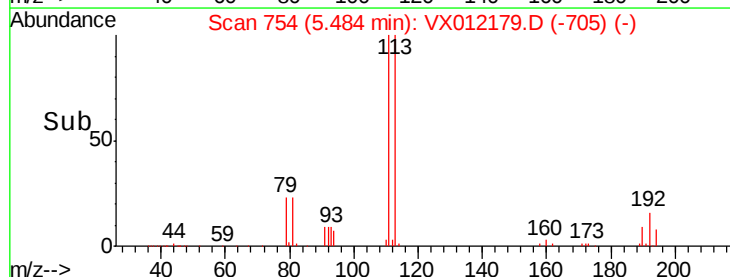
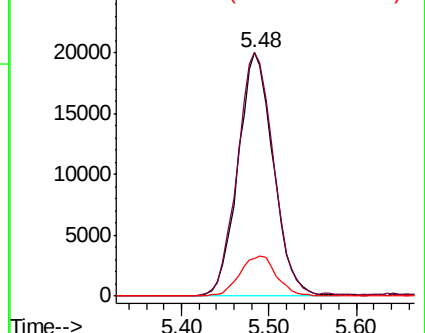
192 0.0 22.5 33.7#

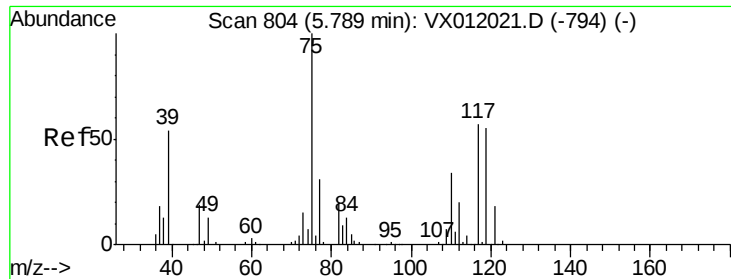


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

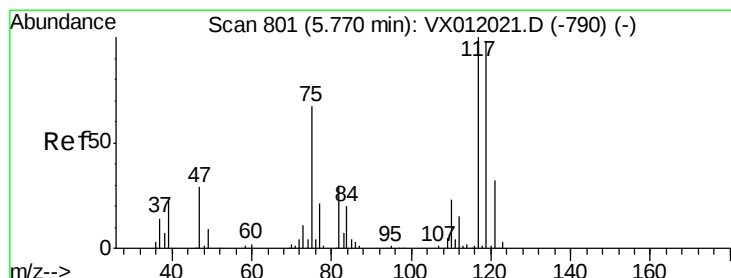
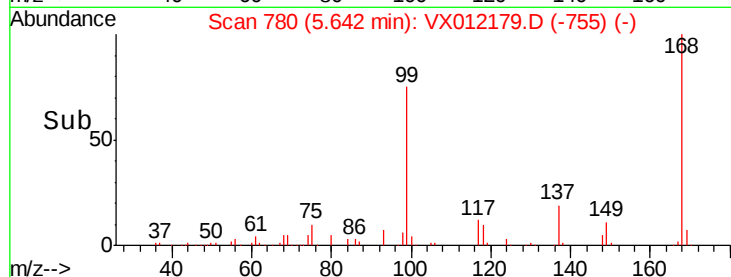
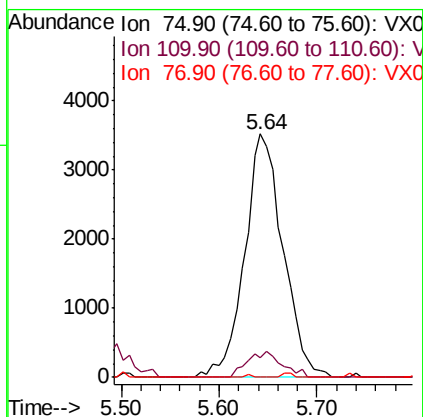
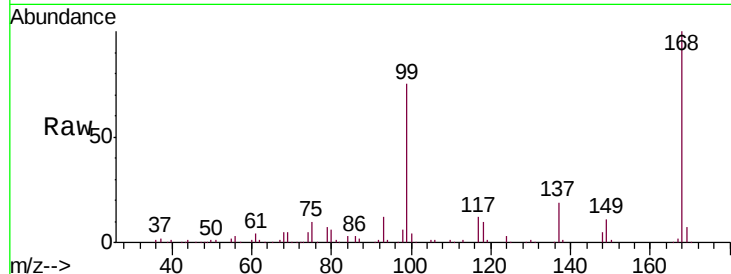




#36  
 1,1-Dichloropropene  
 Concen: 5.867 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.15 min  
 Lab File: VX012179.D  
 Acq: 07 Sep 2019 16:35

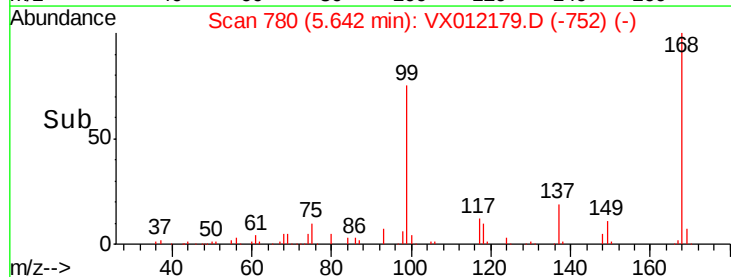
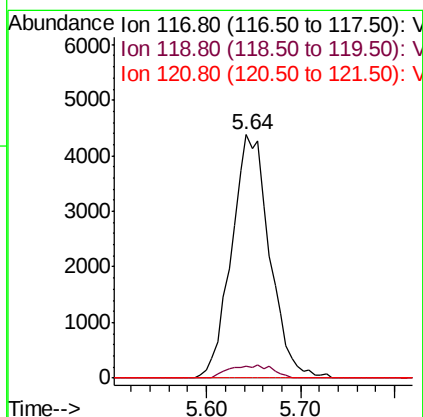
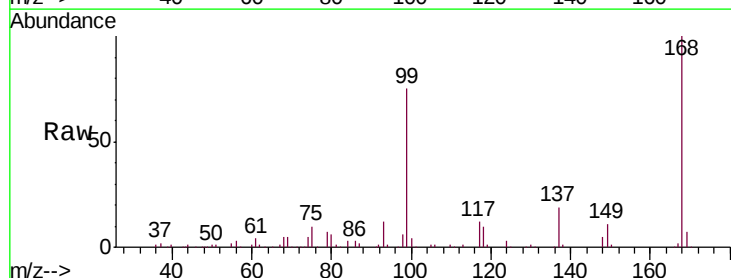
Instrument :  
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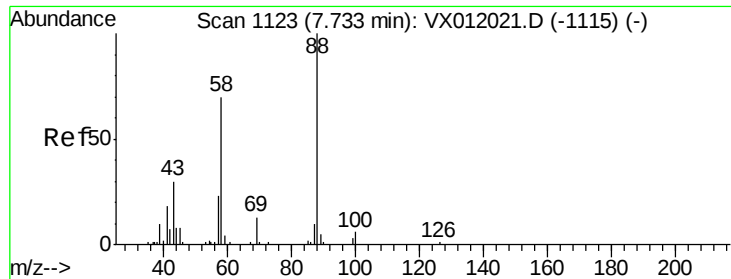
Tgt Ion: 75 Resp: 9569  
 Ion Ratio Lower Upper  
 75 100  
 110 9.6 19.5 58.5#  
 77 0.2 24.6 37.0#



#38  
 Carbon Tetrachloride  
 Concen: 7.155 ug/l  
 RT: 5.64 min Scan# 780  
 Delta R.T. -0.13 min  
 Lab File: VX012179.D  
 Acq: 07 Sep 2019 16:35

Tgt Ion: 117 Resp: 12296  
 Ion Ratio Lower Upper  
 117 100  
 119 5.2 78.3 117.5#  
 121 0.0 24.2 36.2#

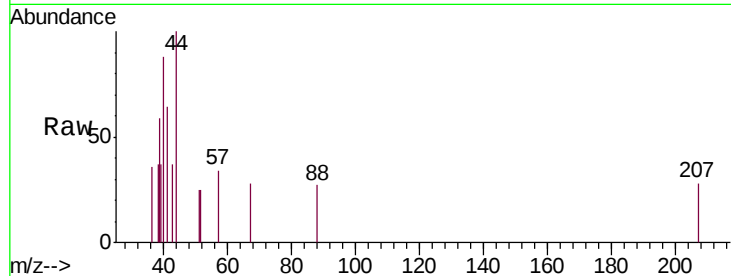




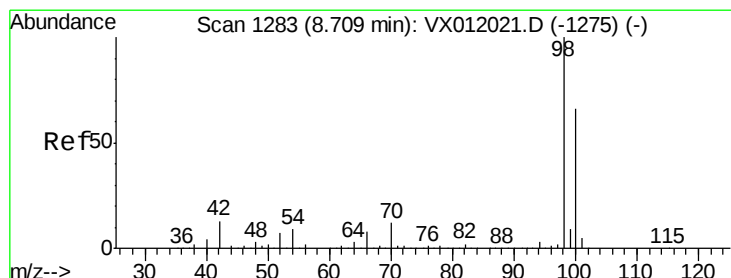
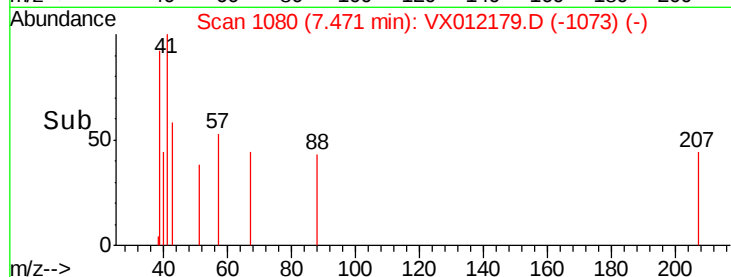
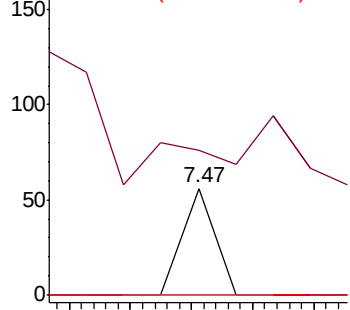
#49  
 1,4-Dioxane  
 Concen: 1.618 ug/l  
 RT: 7.47 min Scan# 1080  
 Delta R.T. -0.26 min  
 Lab File: VX012179.D  
 Acq: 07 Sep 2019 16:35

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 T12-G4-(2.7)

Tgt Ion: 88 Resp: 20  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 29.8 44.6#  
 58 0.0 55.4 83.2#

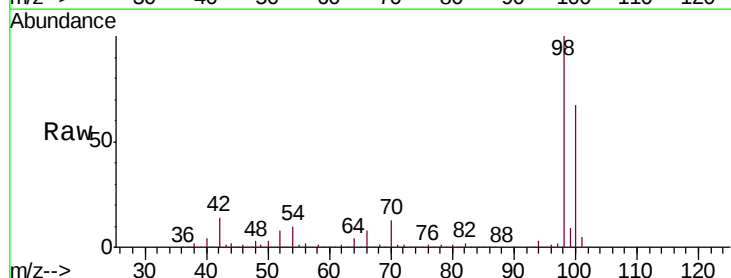


Abundance Ion 88.00 (87.70 to 88.70): VX0  
 Ion 43.00 (42.70 to 43.70): VX0  
 Ion 58.00 (57.70 to 58.70): VX0

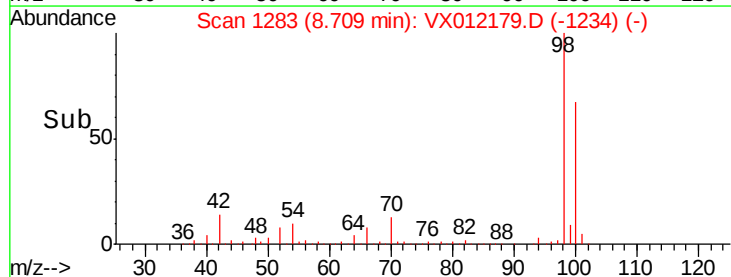
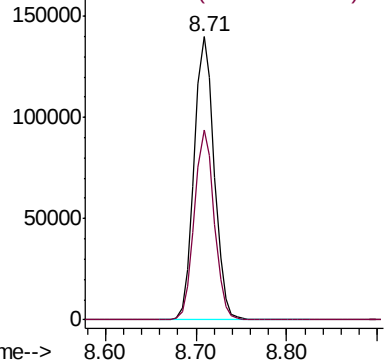


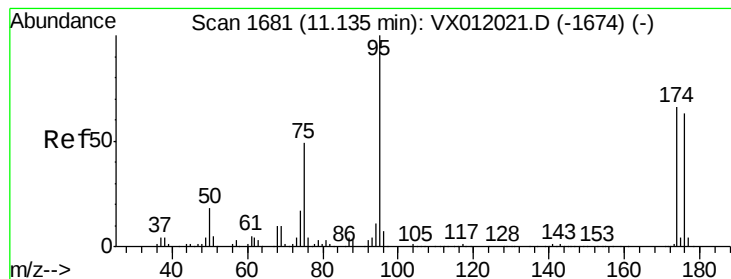
#50  
 Toluene-d8  
 Concen: 51.872 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. -0.00 min  
 Lab File: VX012179.D  
 Acq: 07 Sep 2019 16:35

Tgt Ion: 98 Resp: 216769  
 Ion Ratio Lower Upper  
 98 100  
 100 66.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0  
 Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.302 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampleId :

T12-G4-(2.7)

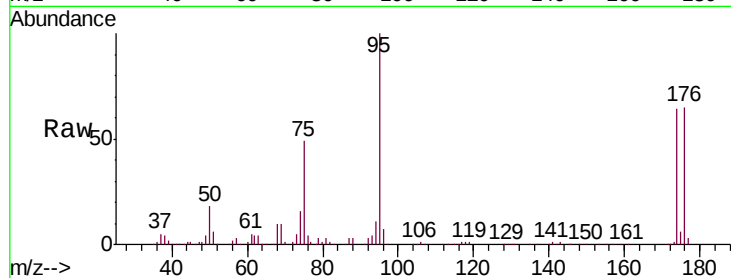
Tgt Ion: 95 Resp: 86098

Ion Ratio Lower Upper

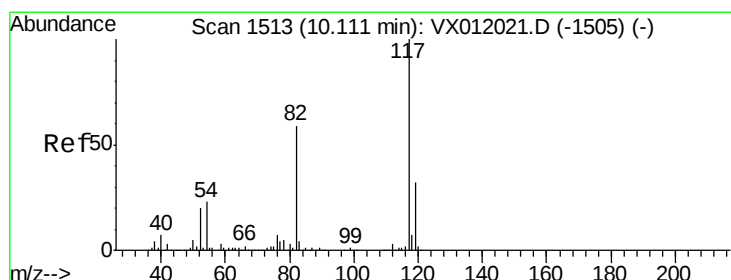
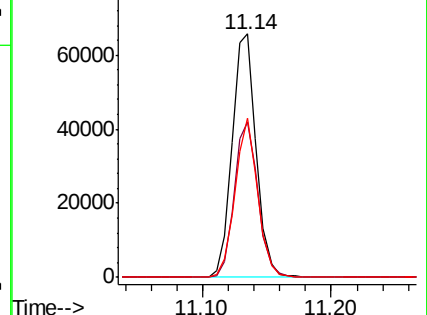
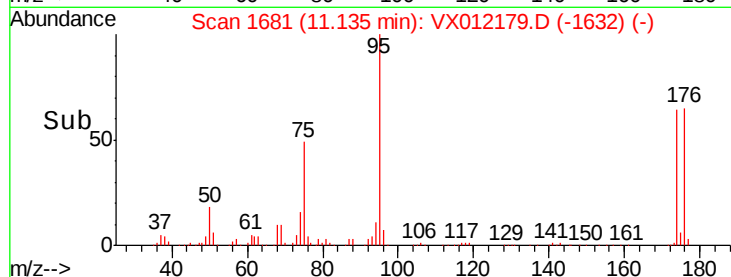
95 100

174 62.9 0.0 205.4

176 61.6 0.0 201.8



Abundance Ion 94.90 (94.60 to 95.60): VX012179.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

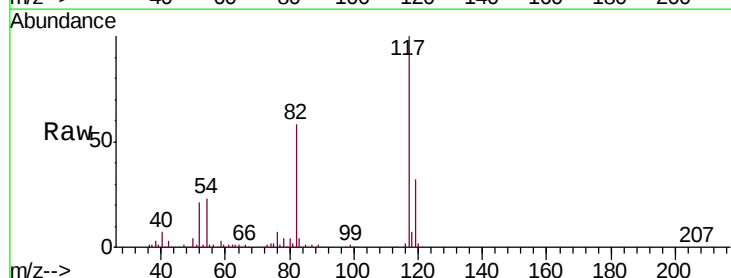
Tgt Ion: 117 Resp: 160950

Ion Ratio Lower Upper

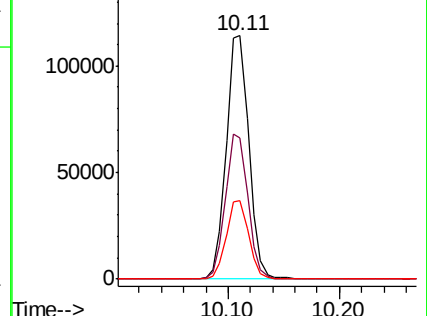
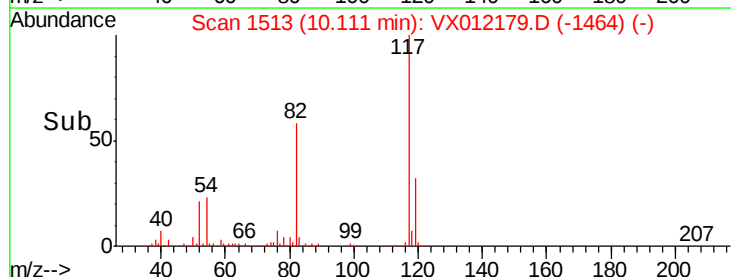
117 100

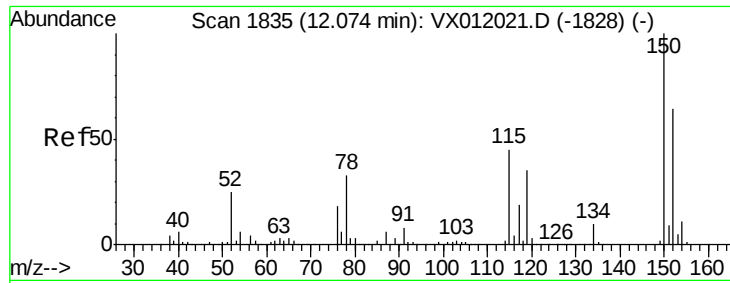
82 58.1 39.4 59.0

119 32.1 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): VX012179.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampled :

T12-G4-(2.7)

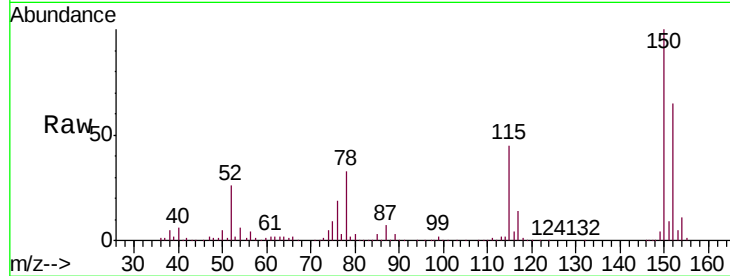
Tgt Ion:152 Resp: 65313

Ion Ratio Lower Upper

152 100

115 66.9 36.4 109.3

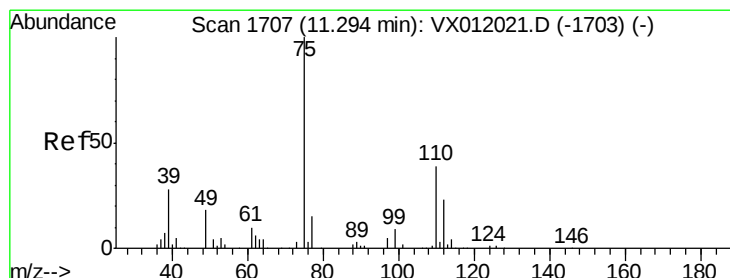
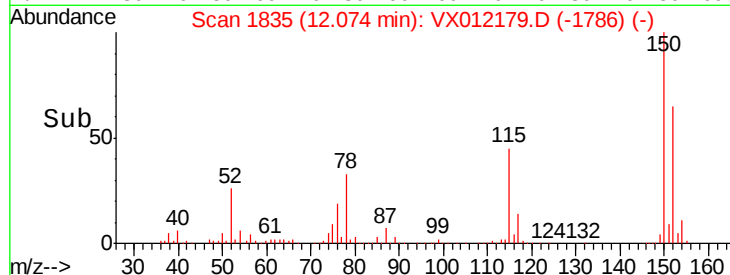
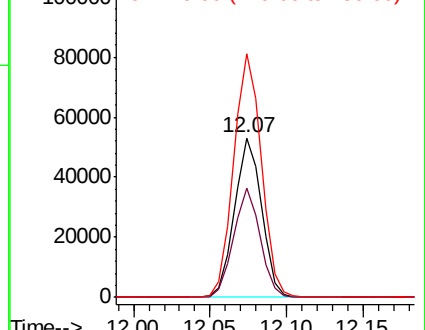
150 155.8 0.0 341.2



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: 55.852 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012179.D

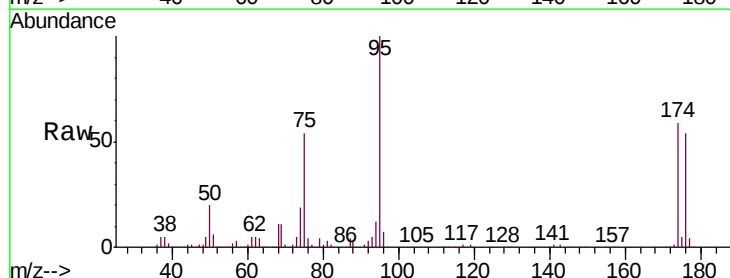
Acq: 07 Sep 2019 16:35

Tgt Ion: 75 Resp: 44571

Ion Ratio Lower Upper

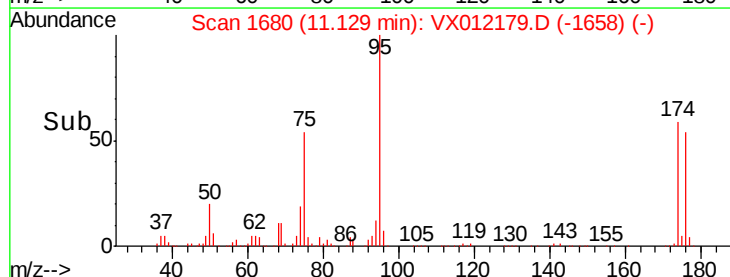
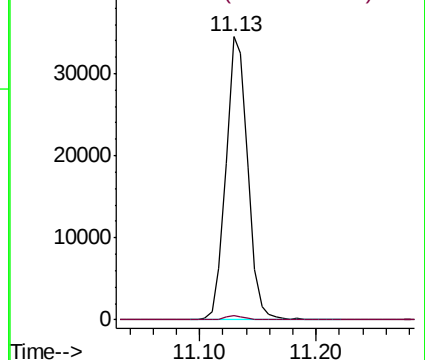
75 100

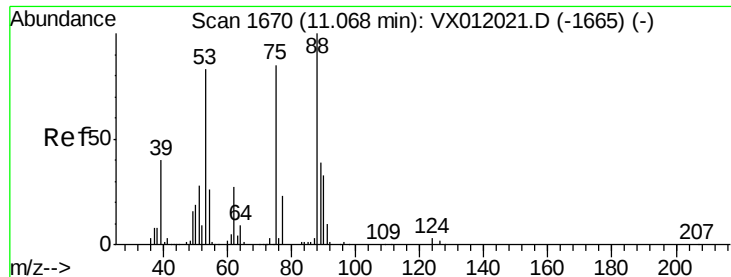
77 1.4 23.5 70.5#



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: 132.042 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012179.D

Acq: 07 Sep 2019 16:35

Instrument :

MSVOA\_X

ClientSampleId :

T12-G4-(2.7)

Tgt Ion: 75 Resp: 44571

Ion Ratio Lower Upper

75 100

53 0.1 78.6 117.8#

89 0.0 38.8 58.2#

