

Data File : VX013908.D
Acq On : 10 Dec 2019 19:07
Operator : JC/SP
Sample : K6196-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TW-1

Quant Time: Dec 11 02:29:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	577031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	893830	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	795647	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	347615	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	325692	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	5.49	113	269372	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
50) Toluene-d8	8.71	98	1062479	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
62) 4-Bromofluorobenzene	11.14	95	350451	45.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.28%	

Target Compounds

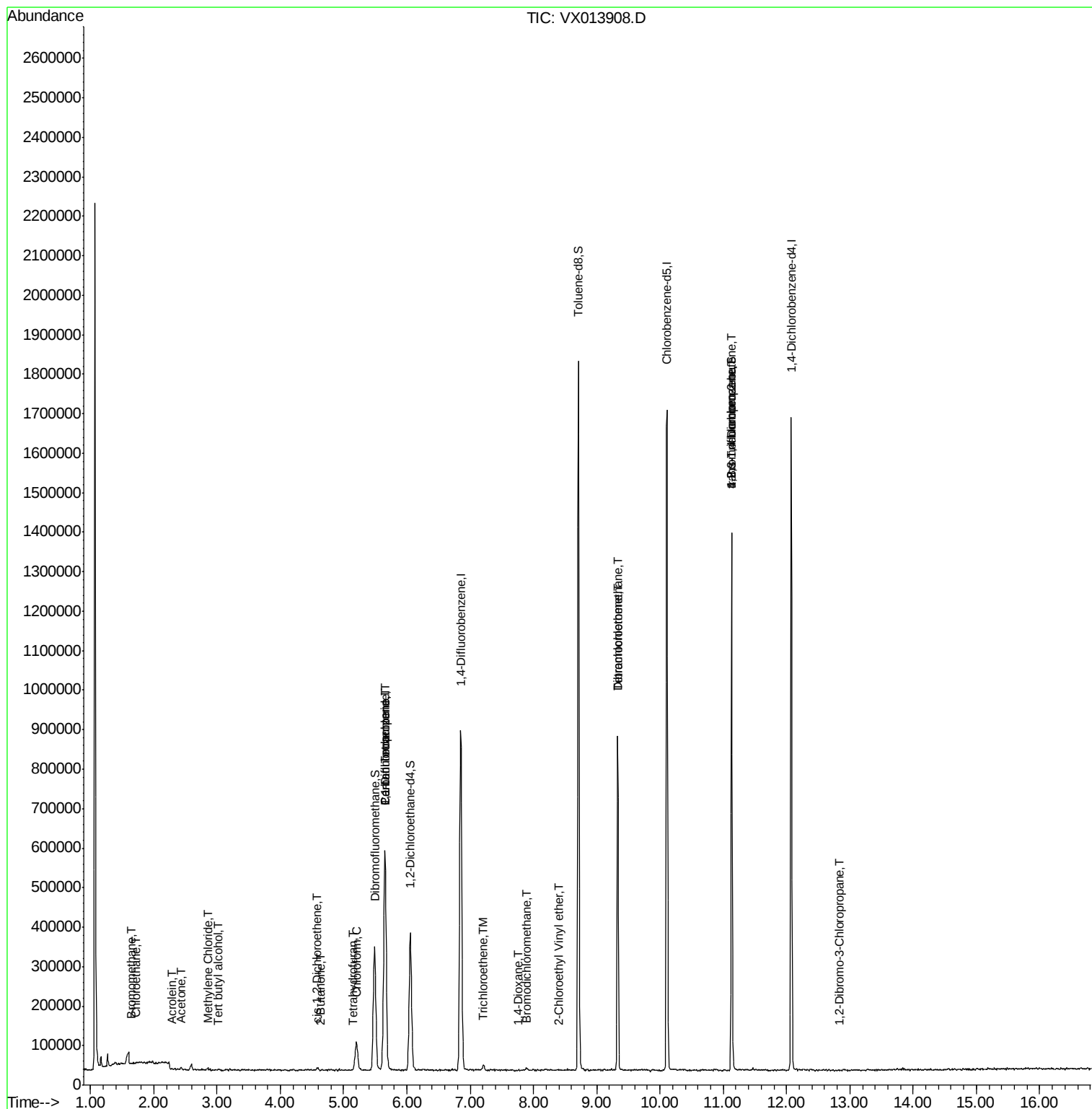
						Qvalue
5) Bromomethane	1.64	94	1763	0.324	ug/l #	42
6) Chloroethane	1.72	64	1183	0.256	ug/l #	87
11) Tert butyl alcohol	3.03	59	2112	1.277	ug/l #	74
13) Acrolein	2.30	56	165	6.149	ug/l #	1
16) Acetone	2.43	43	6605	1.997	ug/l	96
20) Methylene Chloride	2.86	84	1895	0.298	ug/l #	62
25) 2-Butanone	4.64	43	1448	0.295	ug/l #	61
27) cis-1,2-Dichloroethene	4.59	96	3817	0.556	ug/l	86
29) Tetrahydrofuran	5.14	42	810	0.267	ug/l #	53
30) Chloroform	5.20	83	84675	7.959	ug/l	96
36) 1,1-Dichloropropene	5.65	75	40122	4.945	ug/l #	50
38) Carbon Tetrachloride	5.65	117	50648	6.770	ug/l #	16
44) Trichloroethene	7.21	130	6001	0.885	ug/l	80
47) Bromodichloromethane	7.90	83	5220	0.658	ug/l #	90
49) 1,4-Dioxane	7.75	88	53	0.325	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.39	63	939	0.241	ug/l	89
60) Dibromochloromethane	9.33	129	146814	22.867	ug/l #	11
64) Tetrachloroethene	9.33	164	169822	28.621	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	171408	21.923	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	171408	59.979	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.83	75	491	0.267	ug/l	68

(#) = 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# 782

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

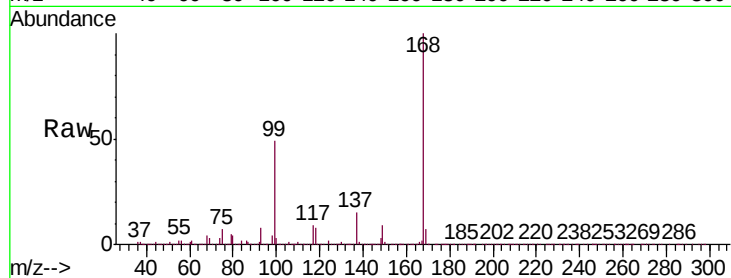
TW-1

Tgt Ion:168 Resp: 577031

Ion Ratio Lower Upper

168 100

99 48.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

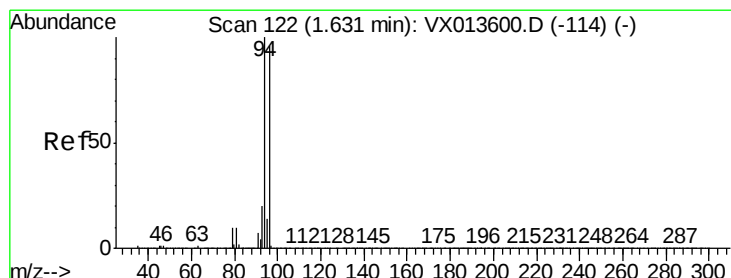
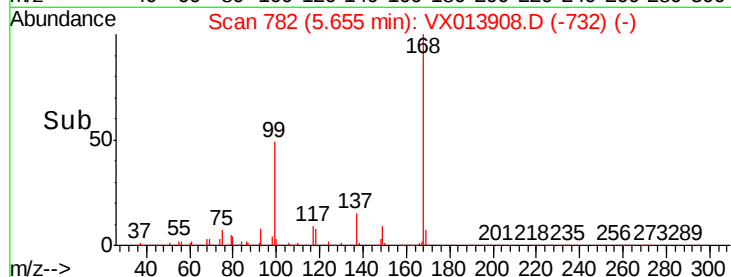
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.324 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013908.D

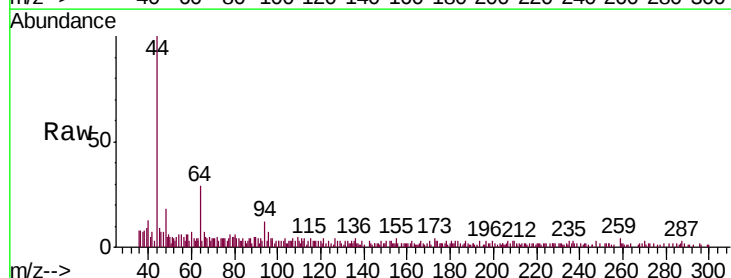
Acq: 10 Dec 2019 19:07

Tgt Ion: 94 Resp: 1763

Ion Ratio Lower Upper

94 100

96 39.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

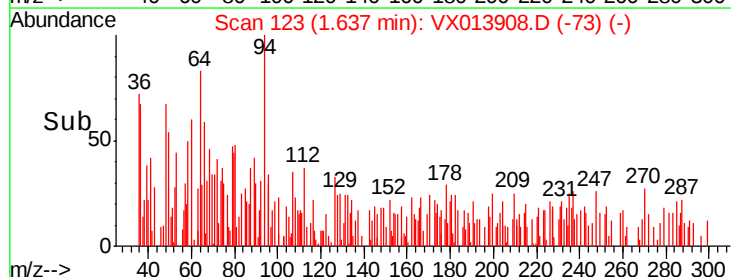
600

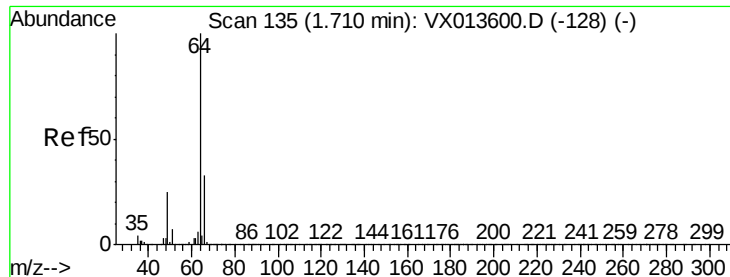
400

200

0

Time-->





#6

Chloroethane

Concen: 0.256 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampled :

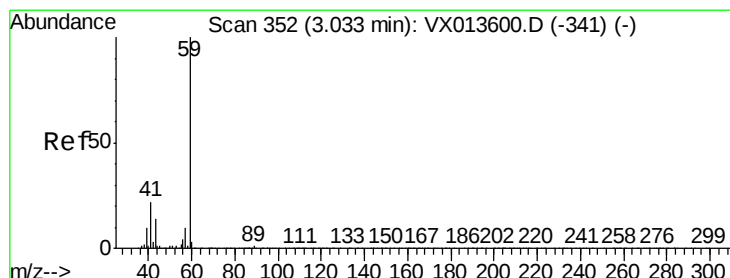
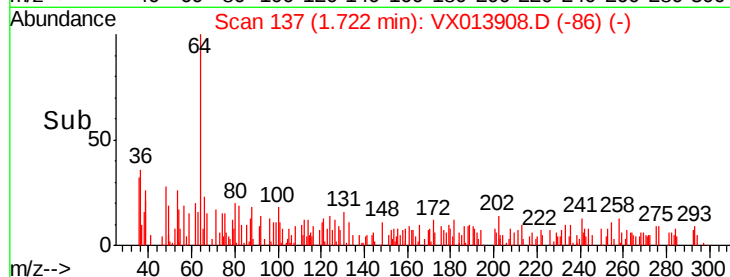
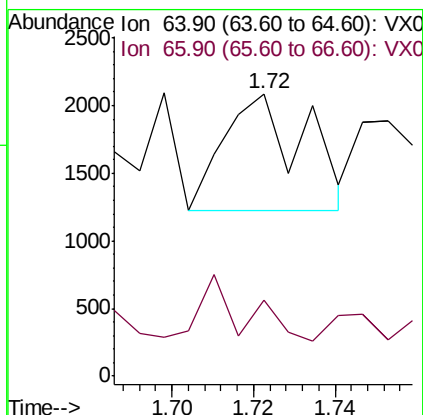
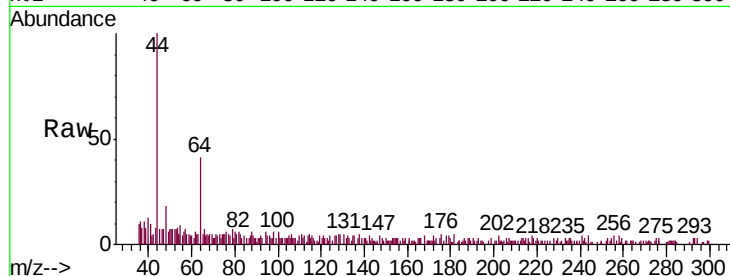
TW-1

Tgt Ion: 64 Resp: 1183

Ion Ratio Lower Upper

64 100

66 25.8 26.7 40.1#



#11

Tert butyl alcohol

Concen: 1.277 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013908.D

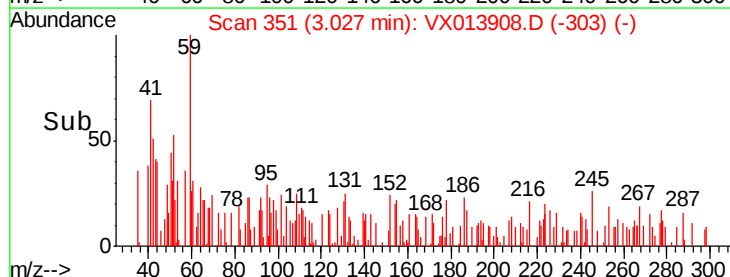
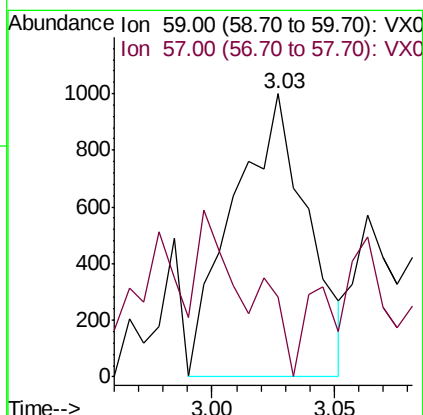
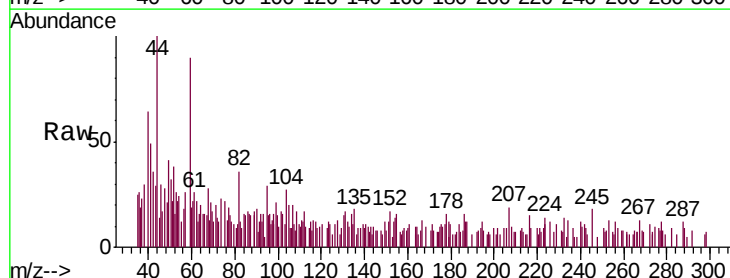
Acq: 10 Dec 2019 19:07

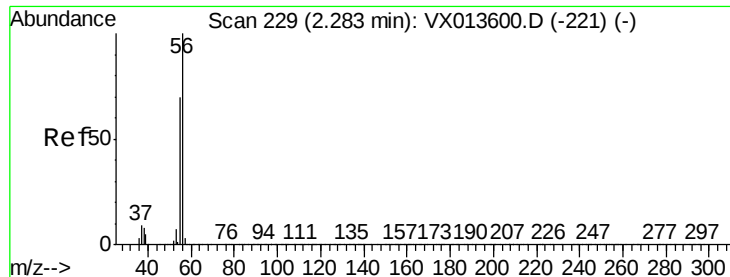
Tgt Ion: 59 Resp: 2112

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#





#13

Acrolein

Concen: 6.149 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

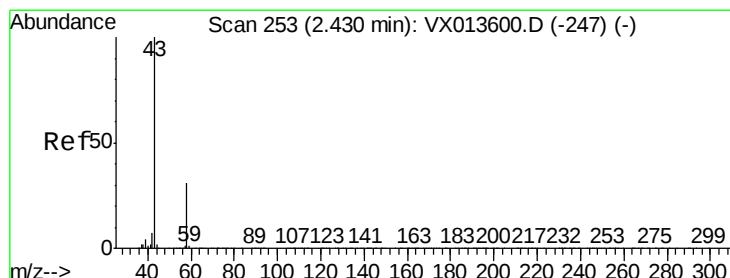
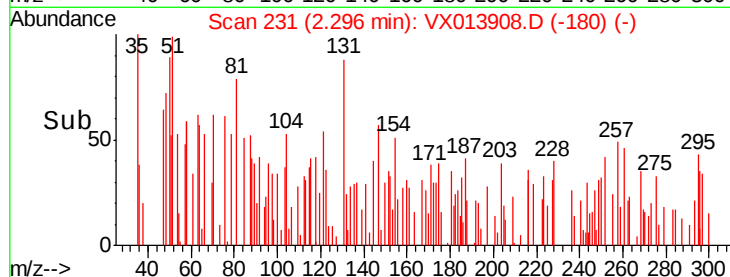
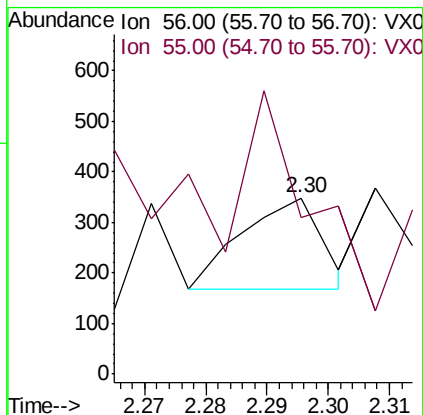
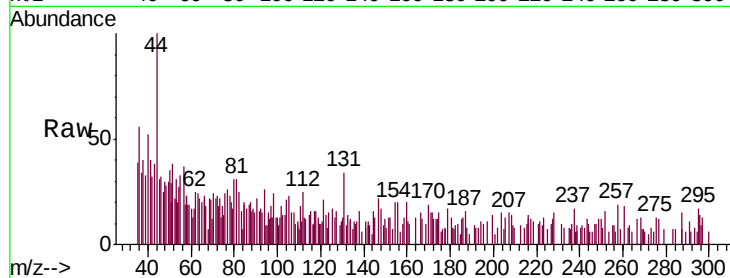
TW-1

Tgt Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 183.0 56.2 84.4#



#16

Acetone

Concen: 1.997 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013908.D

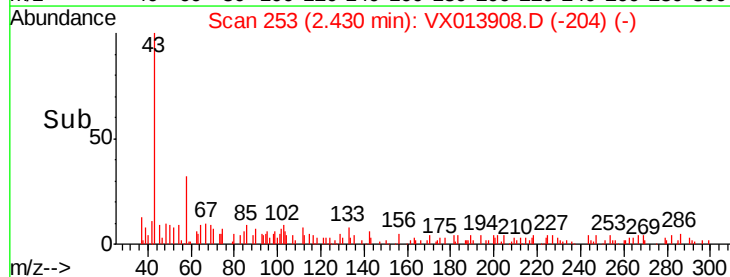
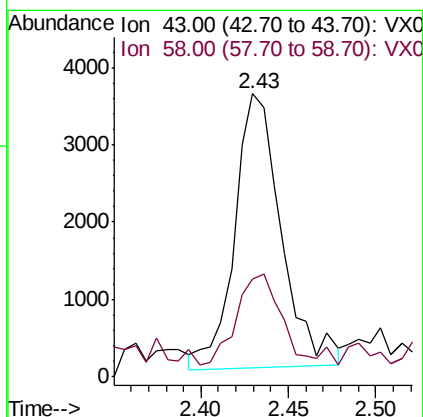
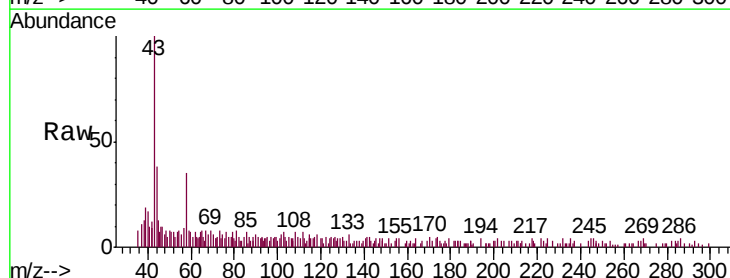
Acq: 10 Dec 2019 19:07

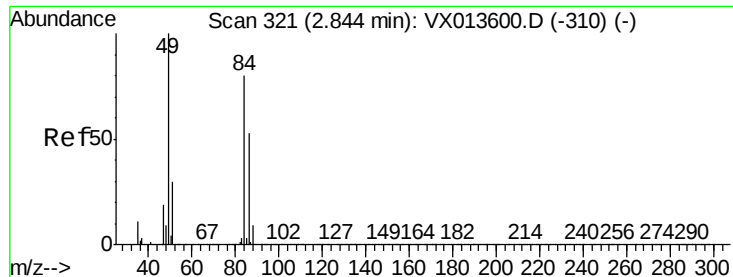
Tgt Ion: 43 Resp: 6605

Ion Ratio Lower Upper

43 100

58 32.8 24.6 36.8

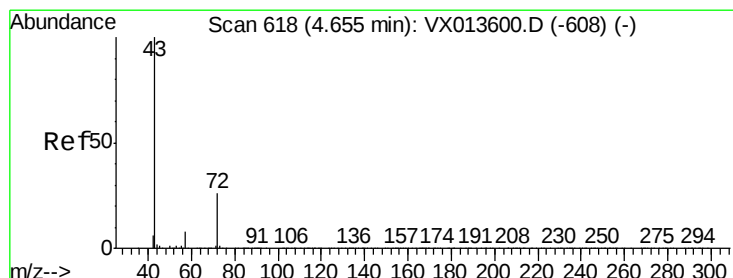
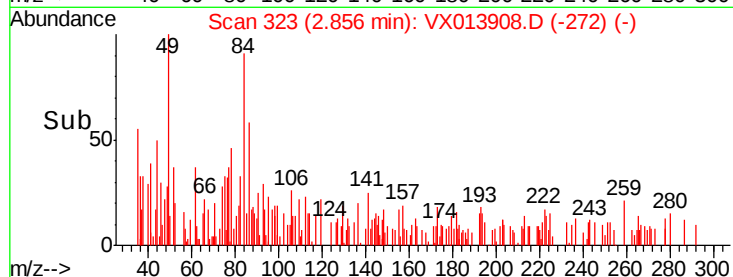
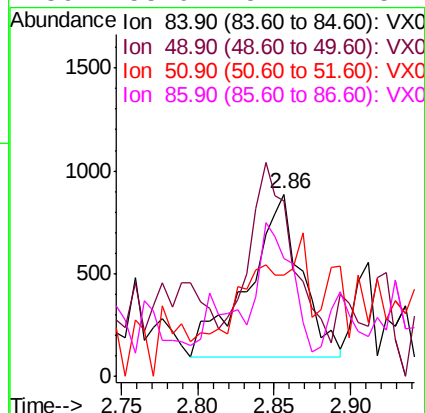
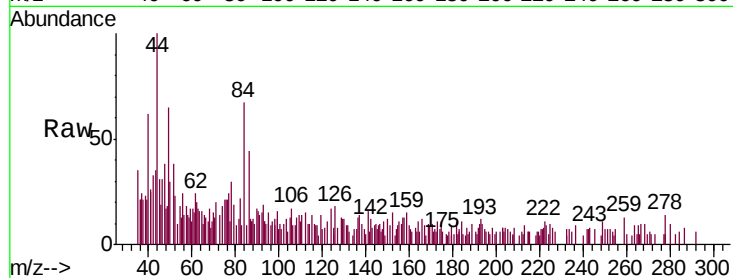




#20
Methylene Chloride
Concen: 0.298 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

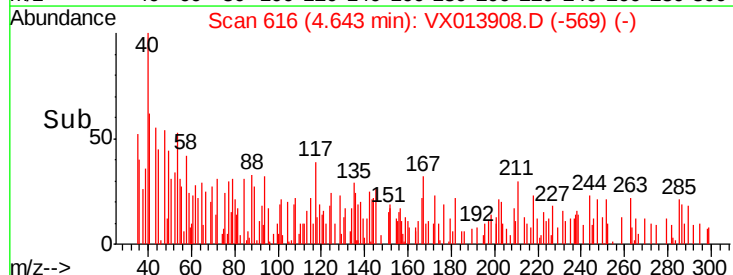
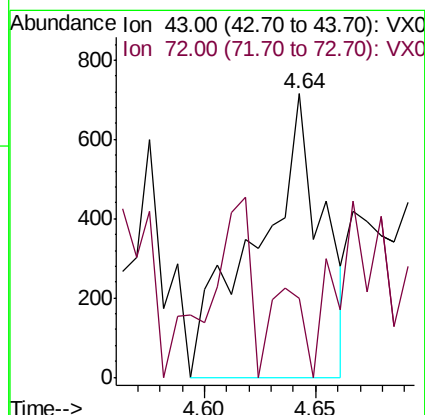
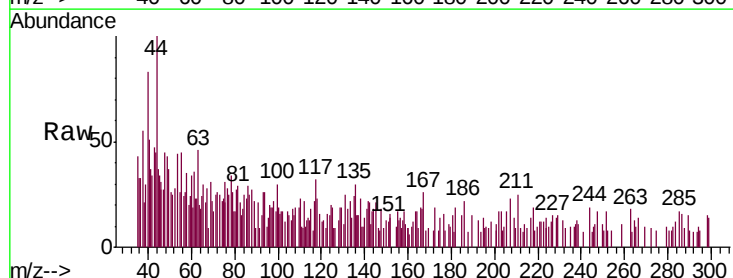
Instrument :
MSVOA_X
ClientSampled :
TW-1

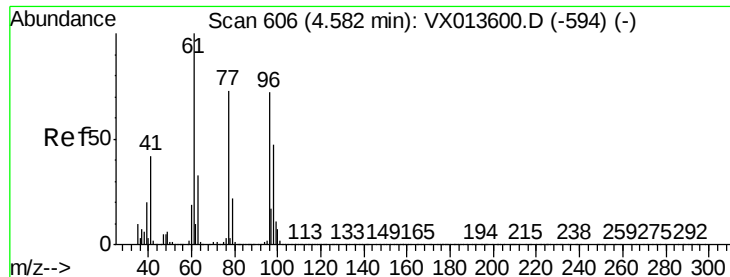
Tgt Ion:	84	Resp:	1895
Ion	Ratio	Lower	Upper
84	100		
49	57.4	99.7	149.5#
51	41.2	29.9	44.9
86	53.9	52.2	78.4



#25
2-Butanone
Concen: 0.295 ug/l
RT: 4.64 min Scan# 616
Delta R.T. -0.01 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

Tgt Ion:	43	Resp:	1448
Ion	Ratio	Lower	Upper
43	100		
72	6.0	20.6	31.0#



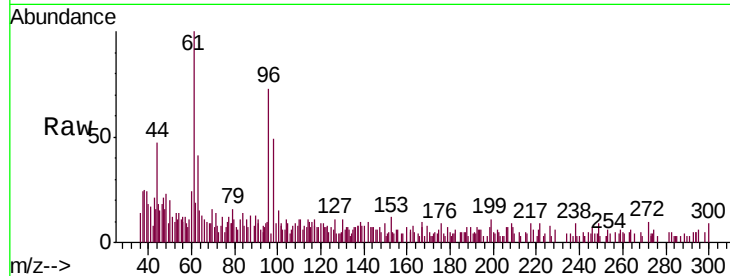


#27

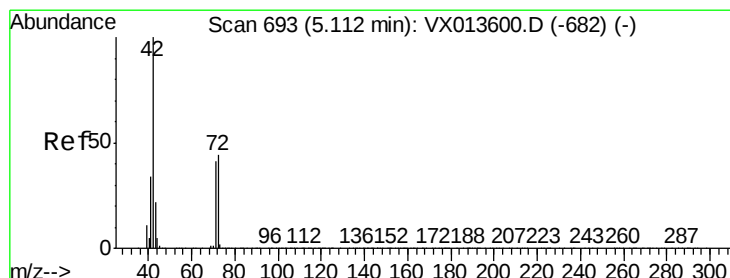
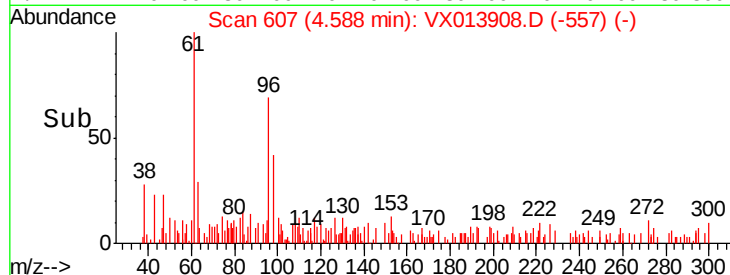
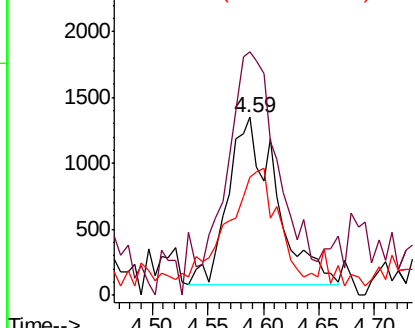
cis-1,2-Dichloroethene
 Concen: 0.556 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013908.D
 Acq: 10 Dec 2019 19:07

Instrument :
 MSVOA_X
 ClientSampled :
 TW-1

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.2	0.0	286.4
98	67.7	0.0	127.4



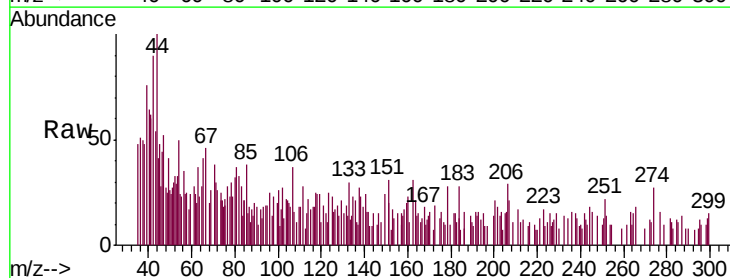
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



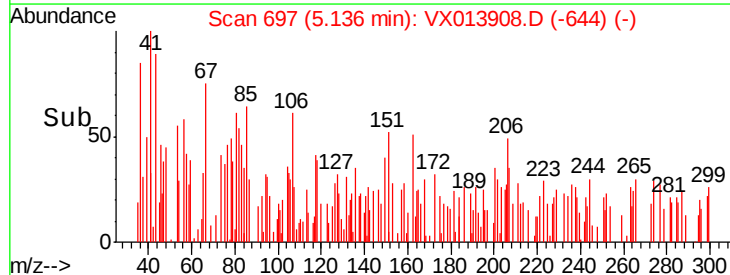
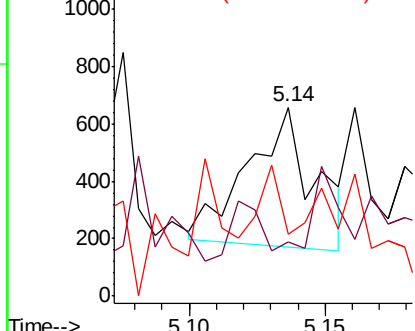
#29

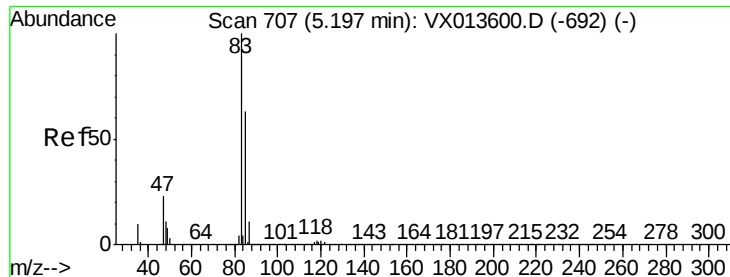
Tetrahydrofuran
 Concen: 0.267 ug/l
 RT: 5.14 min Scan# 697
 Delta R.T. 0.02 min
 Lab File: VX013908.D
 Acq: 10 Dec 2019 19:07

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.3	54.5#
71	27.5	33.2	49.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#30

Chloroform

Concen: 7.959 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

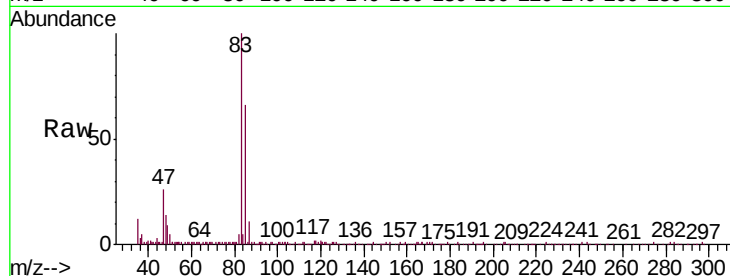
TW-1

Tgt Ion: 83 Resp: 84675

Ion Ratio Lower Upper

83 100

85 65.9 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.20

30000

25000

20000

15000

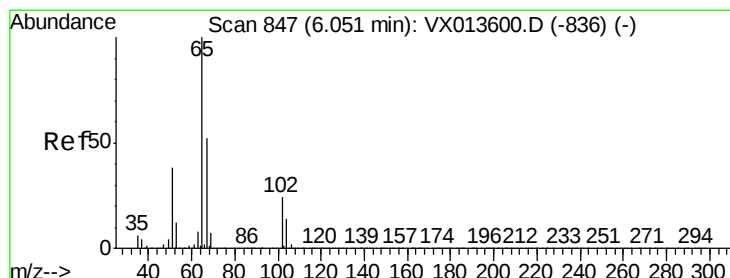
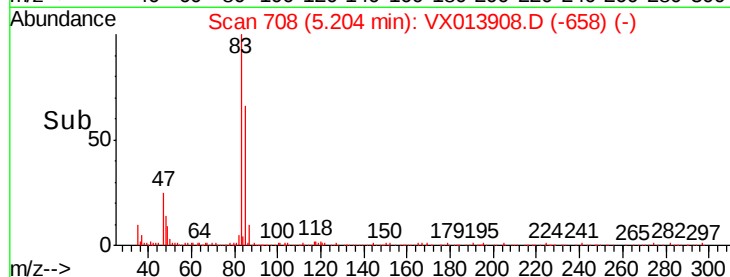
10000

5000

0

Time-->

5.10 5.20 5.30



#33

1,2-Dichloroethane-d4

Concen: 48.625 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013908.D

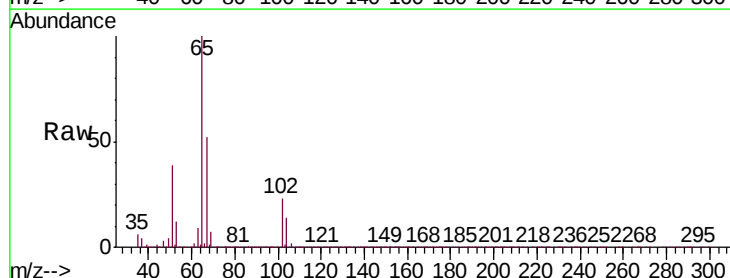
Acq: 10 Dec 2019 19:07

Tgt Ion: 65 Resp: 325692

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

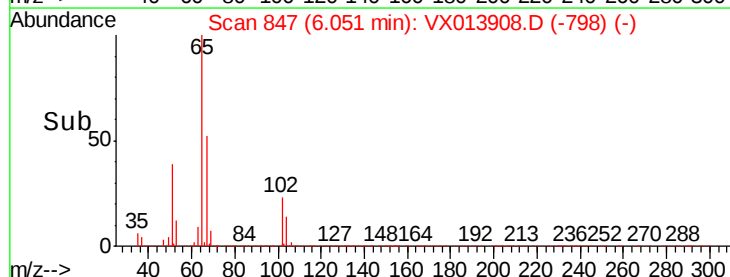
100000

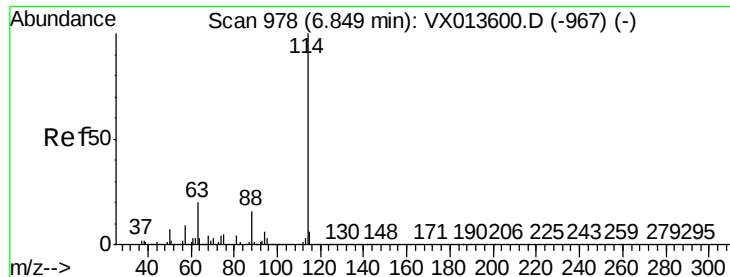
50000

0

Time-->

6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

TW-1

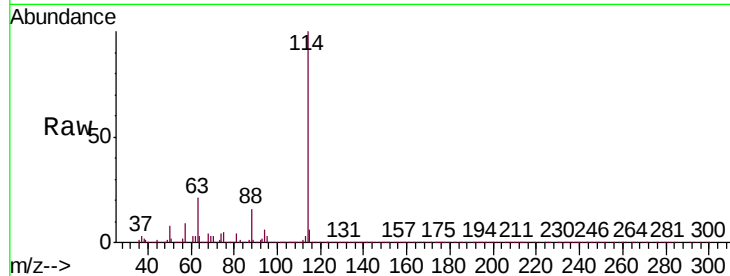
Tgt Ion:114 Resp: 893830

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.6

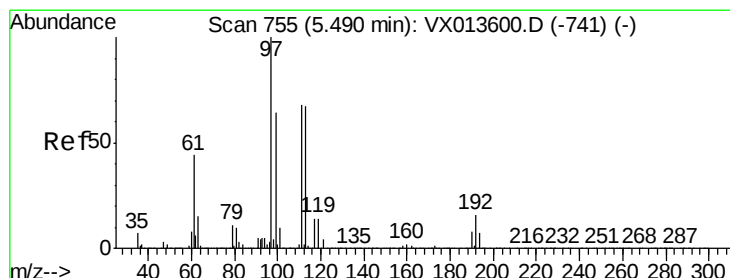
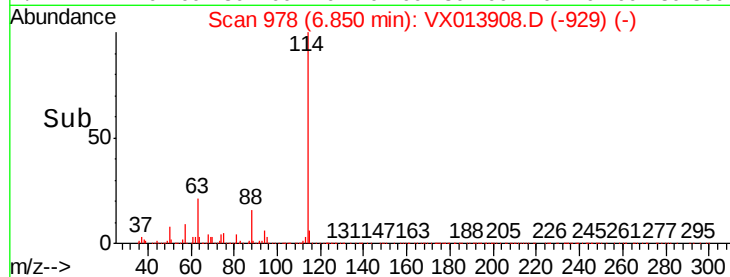
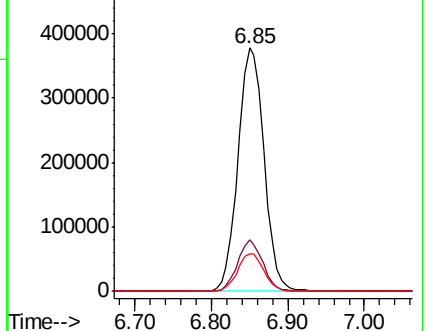
88 15.5 0.0 31.4



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: 48.748 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

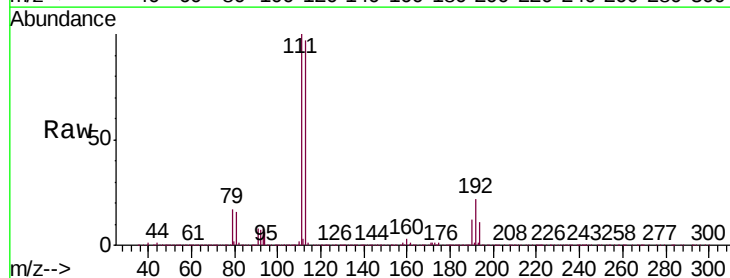
Tgt Ion:113 Resp: 269372

Ion Ratio Lower Upper

113 100

111 103.2 83.6 125.4

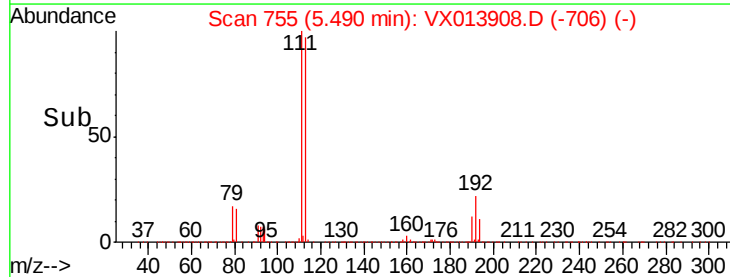
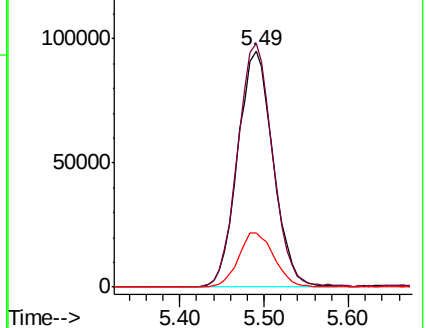
192 23.2 19.2 28.8

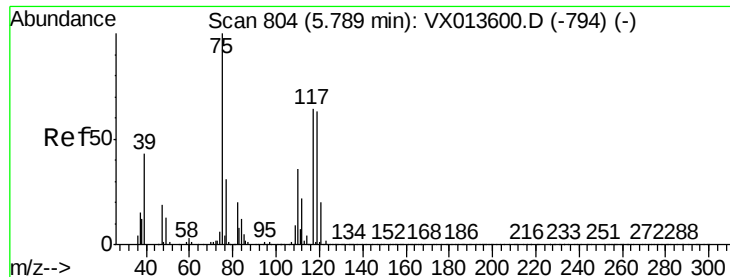


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.945 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

TW-1

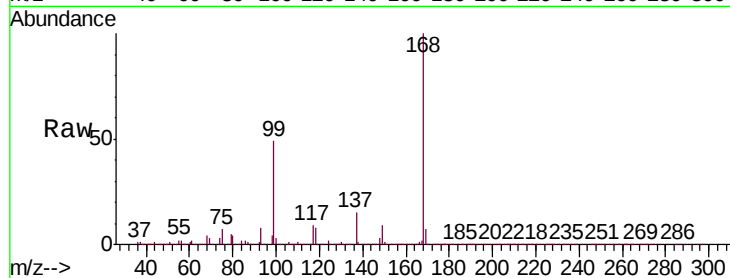
Tgt Ion: 75 Resp: 40122

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

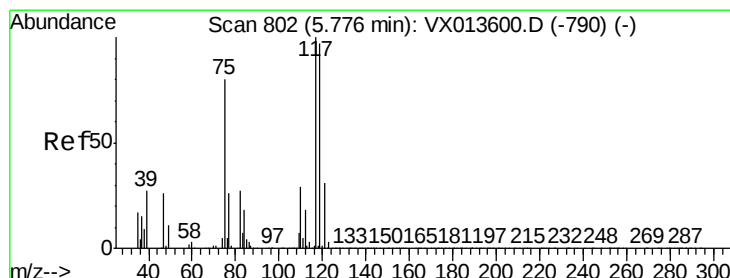
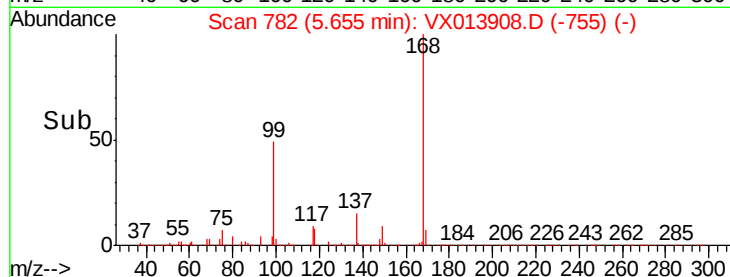
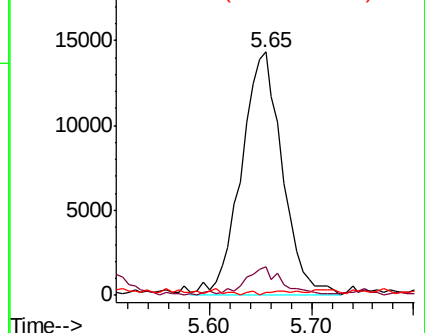
77 0.5 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.770 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

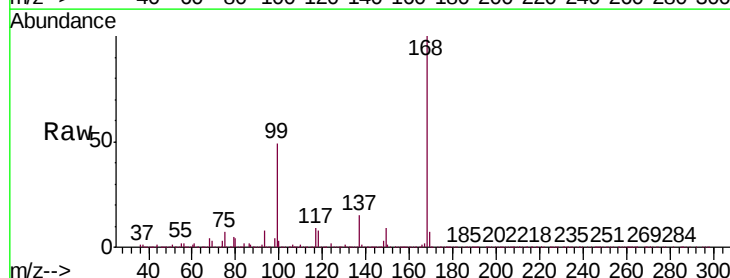
Tgt Ion: 117 Resp: 50648

Ion Ratio Lower Upper

117 100

119 5.7 77.5 116.3#

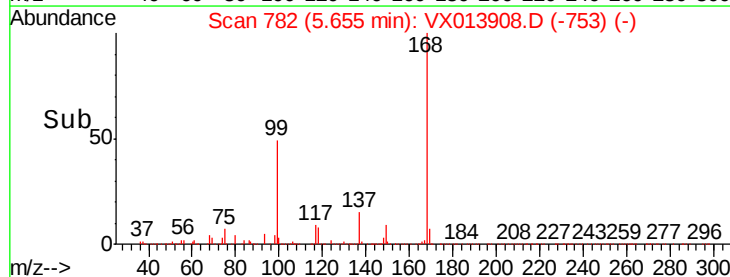
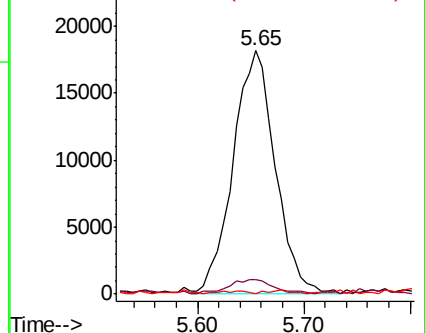
121 0.0 25.0 37.6#

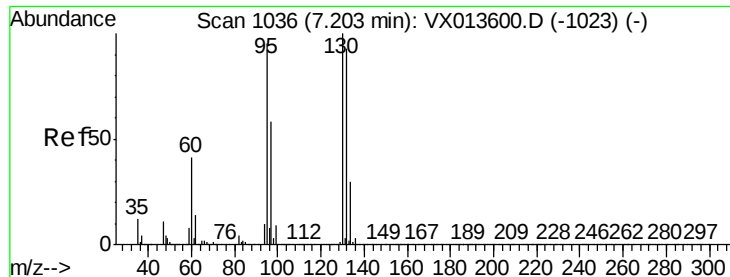


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.885 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

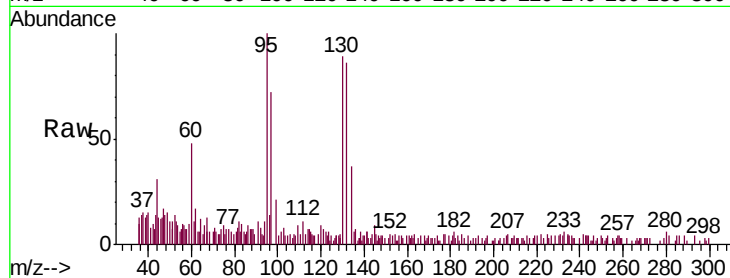
TW-1

Tgt Ion:130 Resp: 6001

Ion Ratio Lower Upper

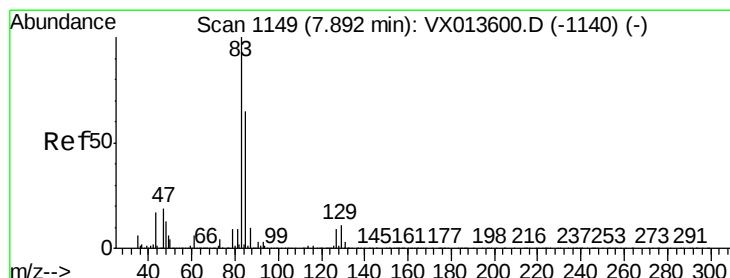
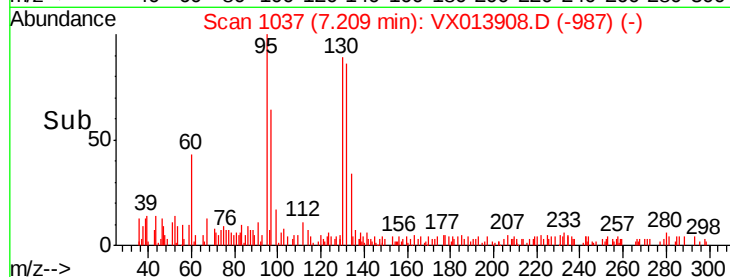
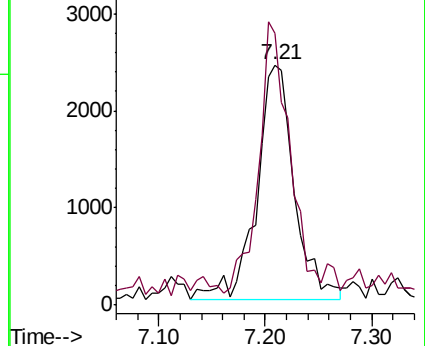
130 100

95 115.1 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#47

Bromodichloromethane

Concen: 0.658 ug/l

RT: 7.90 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

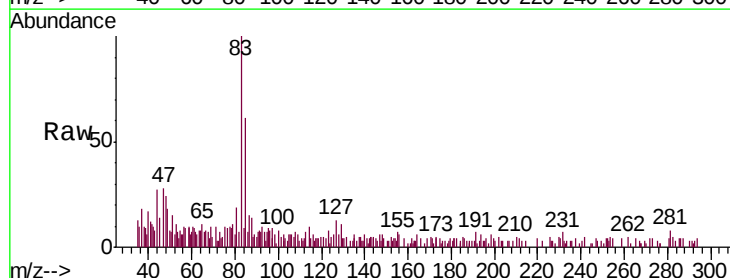
Tgt Ion: 83 Resp: 5220

Ion Ratio Lower Upper

83 100

85 57.0 52.1 78.1

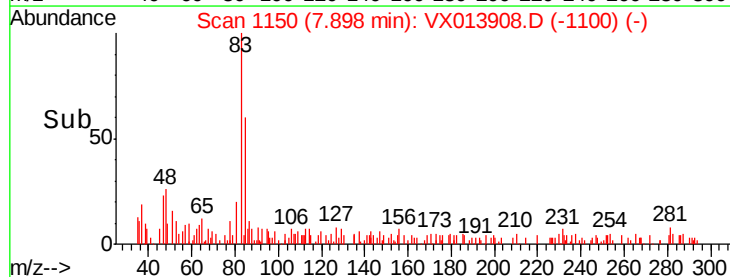
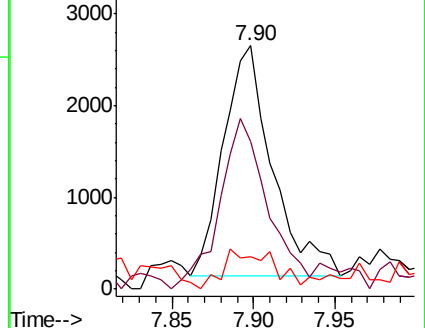
127 11.2 7.0 10.4#

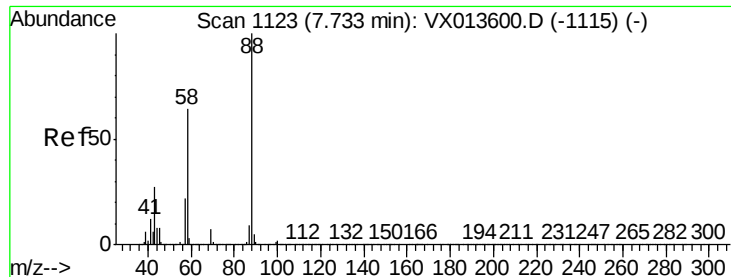


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

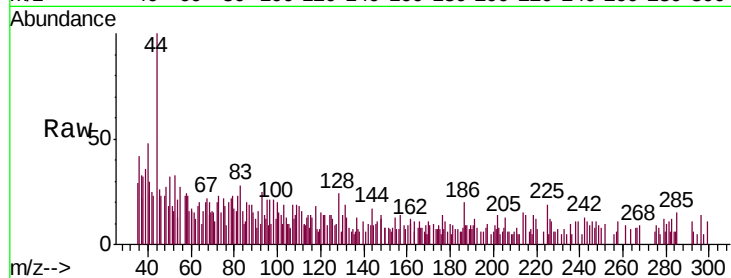




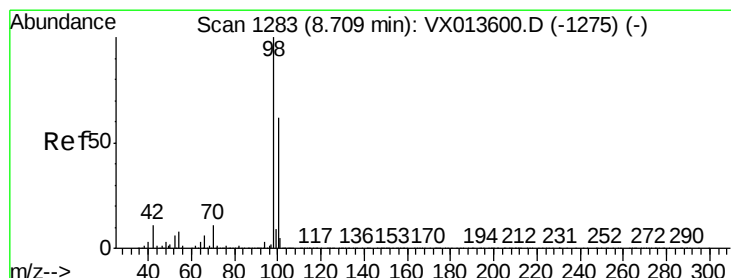
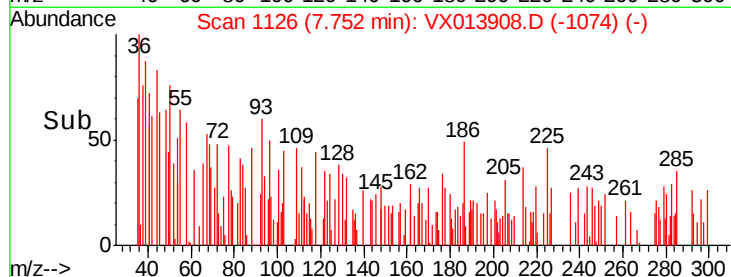
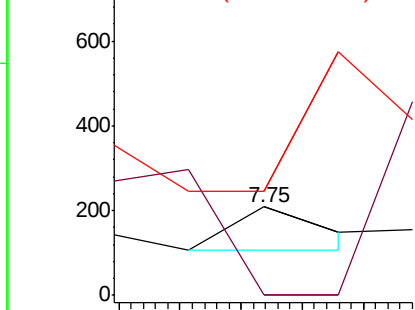
#49
1,4-Dioxane
Concen: 0.325 ug/l
RT: 7.75 min Scan# 1126
Delta R.T. 0.02 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

Instrument :
MSVOA_X
ClientSampled :
TW-1

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 688.7 25.8 38.6#
58 1066.0 54.6 82.0#

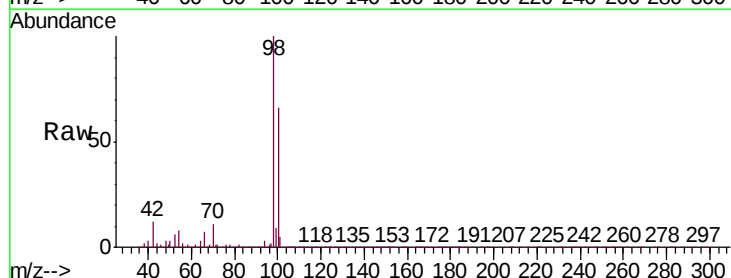


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

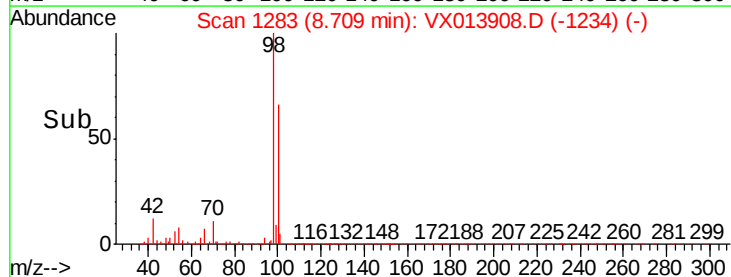
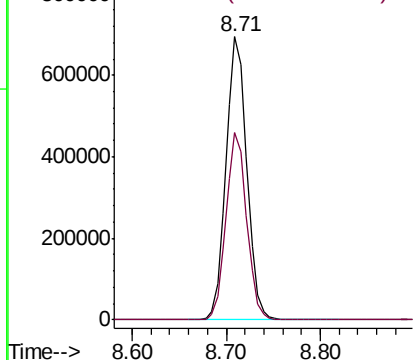


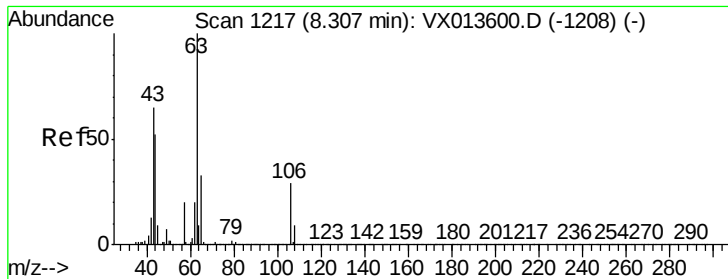
#50
Toluene-d8
Concen: 49.351 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

Tgt Ion: 98 Resp: 1062479
Ion Ratio Lower Upper
98 100
100 65.6 53.1 79.7



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

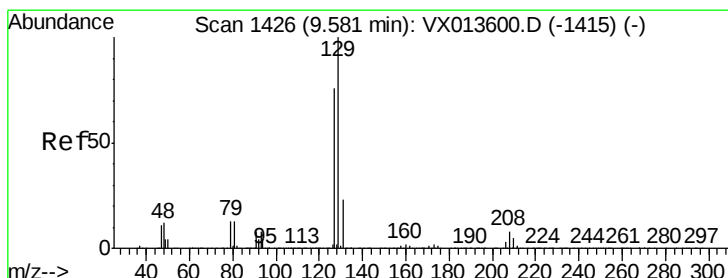
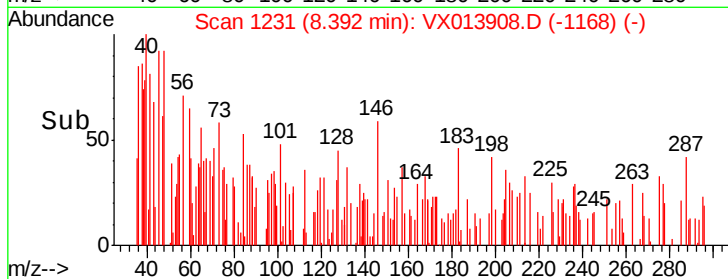
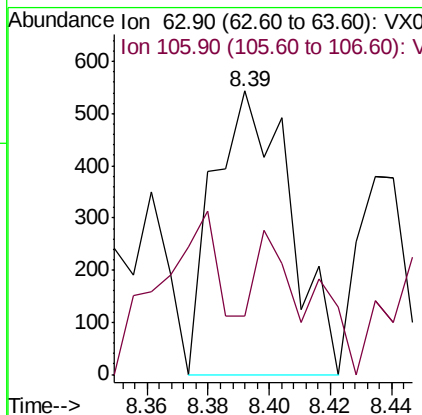
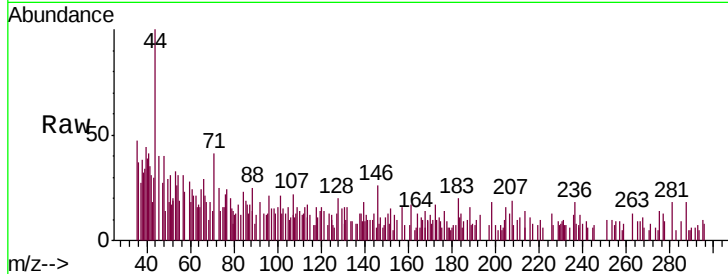




#58
2-Chloroethyl Vinyl ether
Concen: 0.241 ug/l
RT: 8.39 min Scan# 1231
Delta R.T. 0.09 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

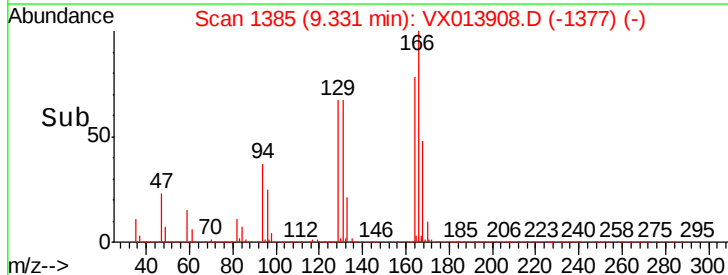
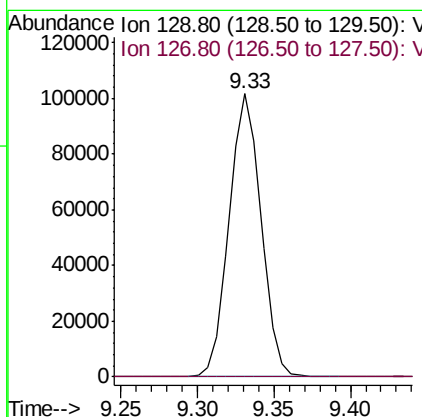
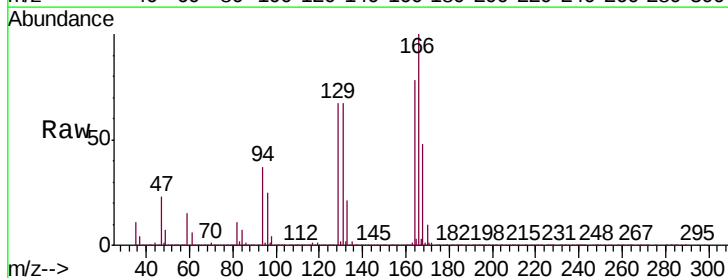
Instrument :
MSVOA_X
ClientSampled :
TW-1

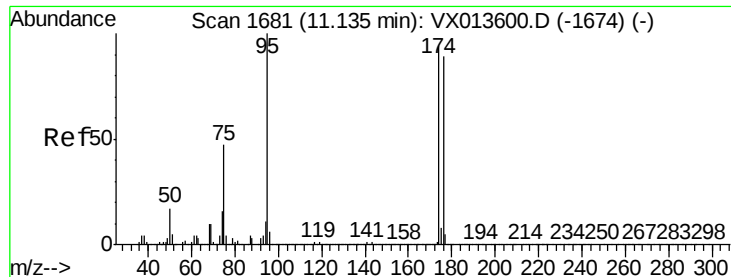
Tgt Ion: 63 Resp: 939
Ion Ratio Lower Upper
63 100
106 35.0 23.4 35.0



#60
Dibromochloromethane
Concen: 22.867 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX013908.D
Acq: 10 Dec 2019 19:07

Tgt Ion: 129 Resp: 146814
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 45.141 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

TW-1

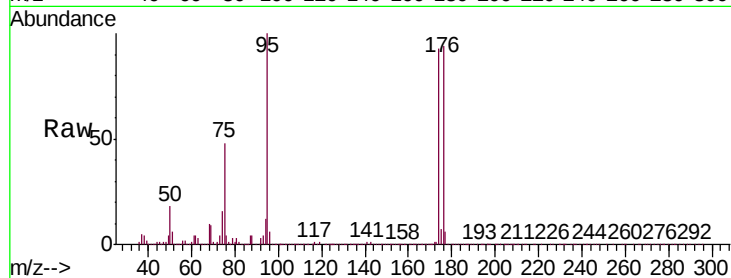
Tgt Ion: 95 Resp: 350451

Ion Ratio Lower Upper

95 100

174 89.1 0.0 180.0

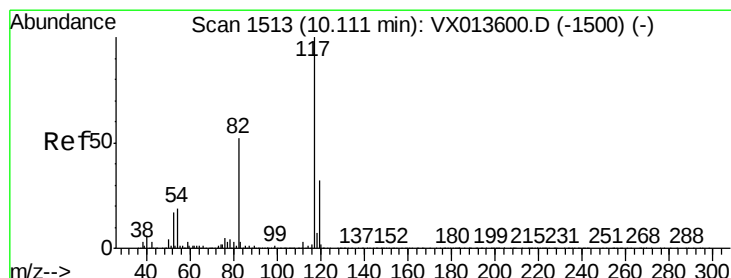
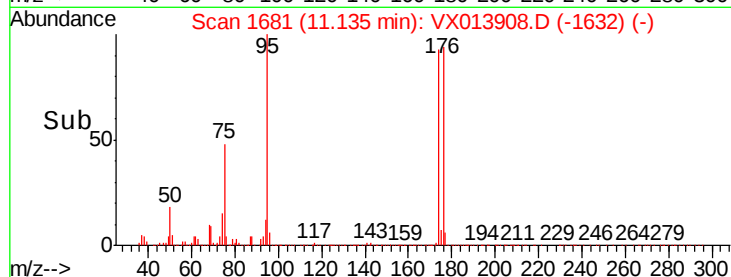
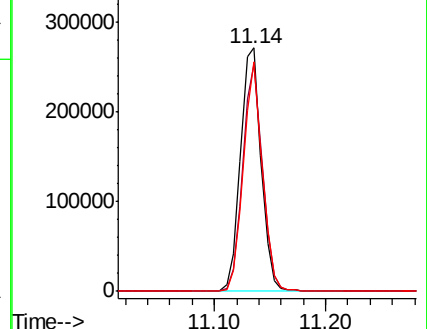
176 86.6 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

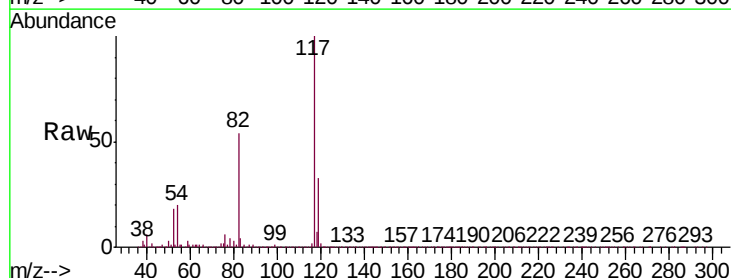
Tgt Ion: 117 Resp: 795647

Ion Ratio Lower Upper

117 100

82 54.3 41.8 62.8

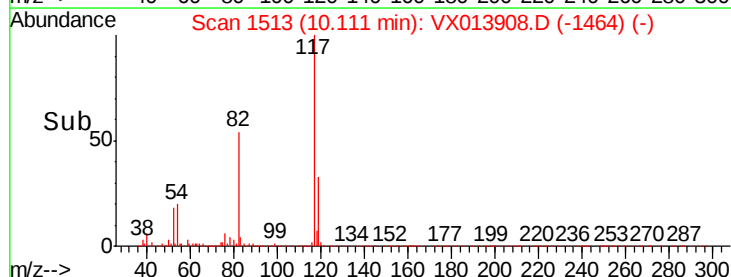
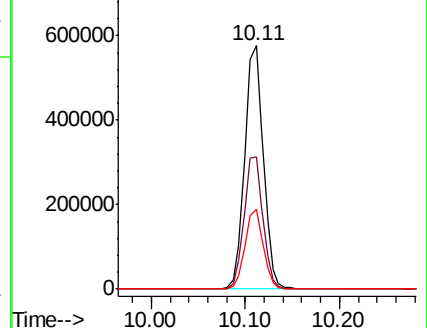
119 32.7 25.8 38.8

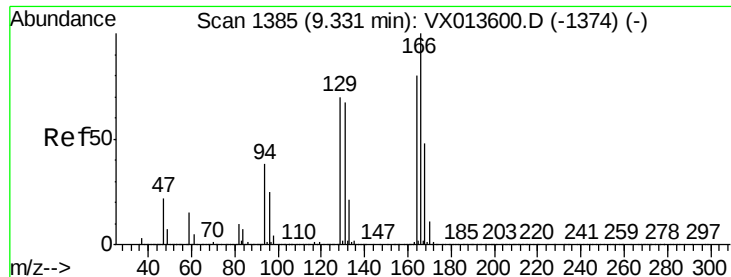


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 28.621 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

TW-1

Tgt Ion:164 Resp: 169822

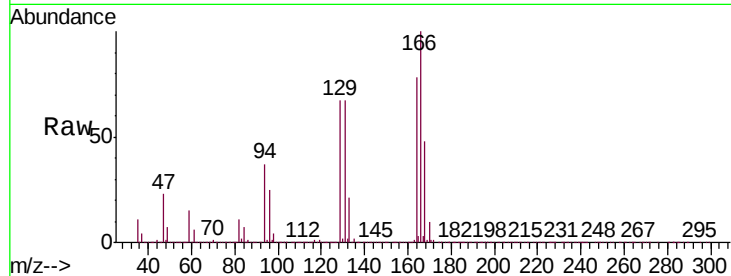
Ion Ratio Lower Upper

164 100

166 127.5 99.7 149.5

129 85.8 70.1 105.1

131 84.9 66.9 100.3

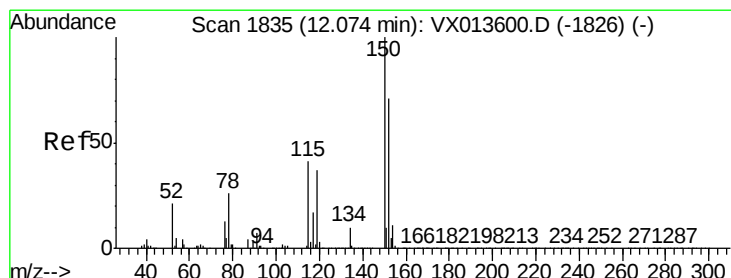
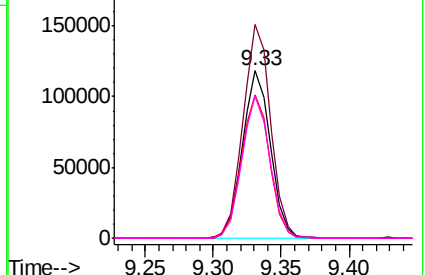
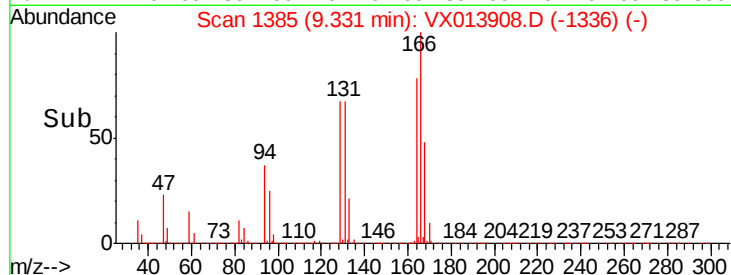


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

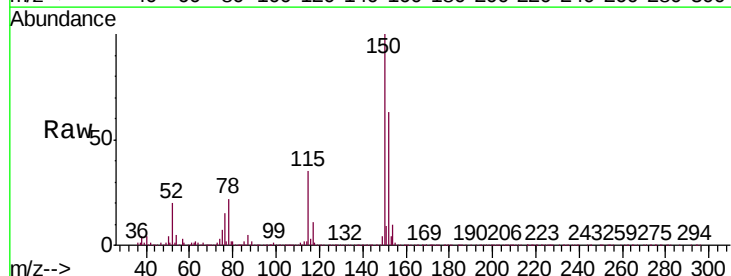
Tgt Ion:152 Resp: 347615

Ion Ratio Lower Upper

152 100

115 56.3 38.4 115.1

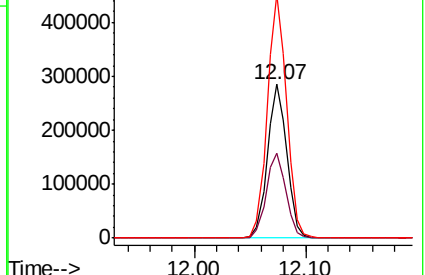
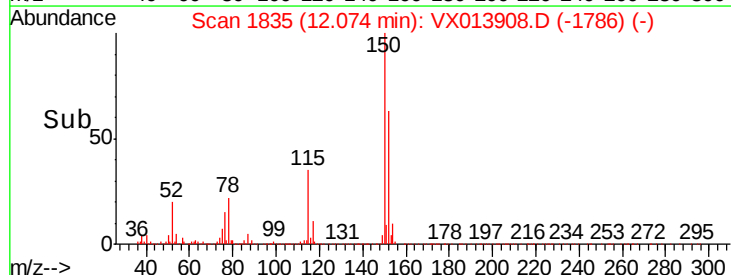
150 157.7 0.0 346.8

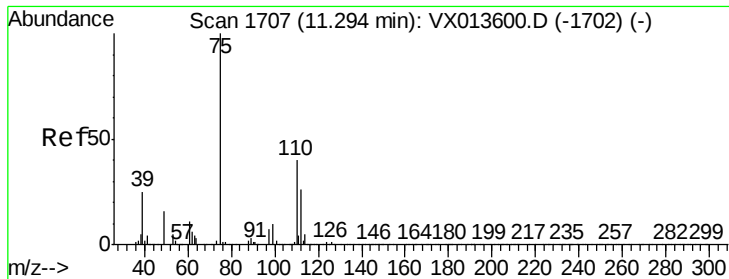


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.923 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

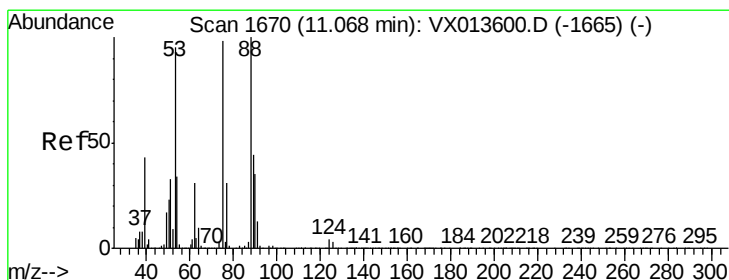
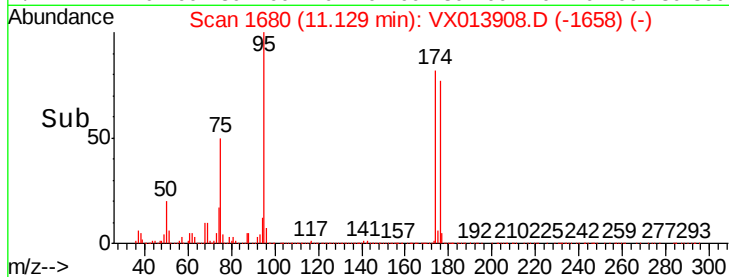
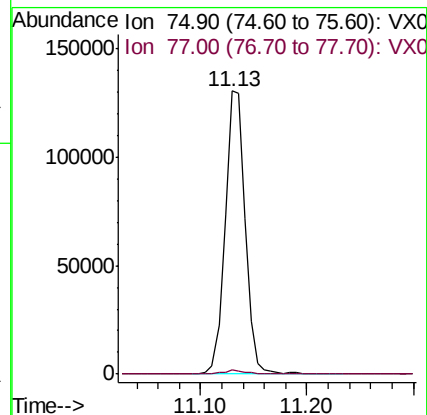
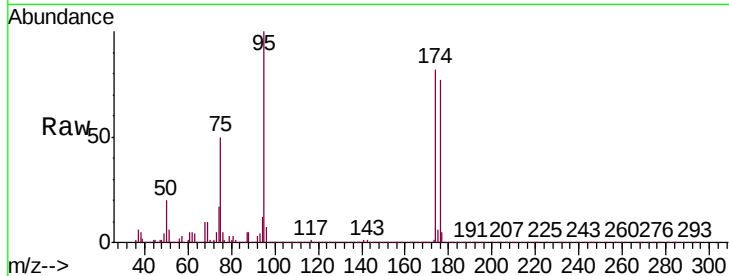
TW-1

Tgt Ion: 75 Resp: 171408

Ion Ratio Lower Upper

75 100

77 1.7 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.979 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

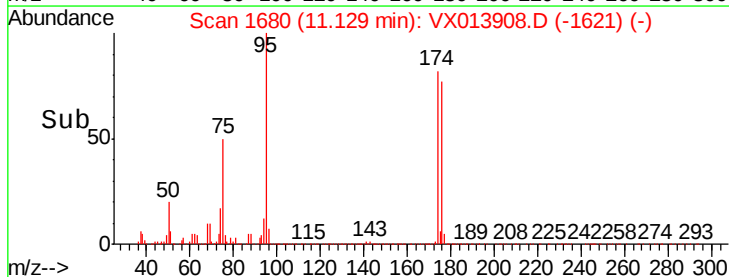
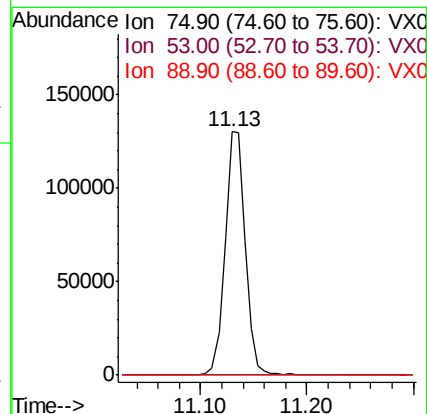
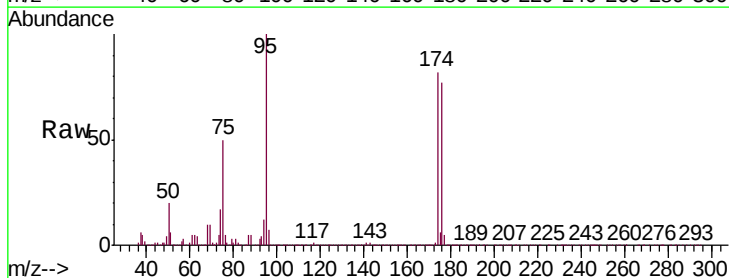
Tgt Ion: 75 Resp: 171408

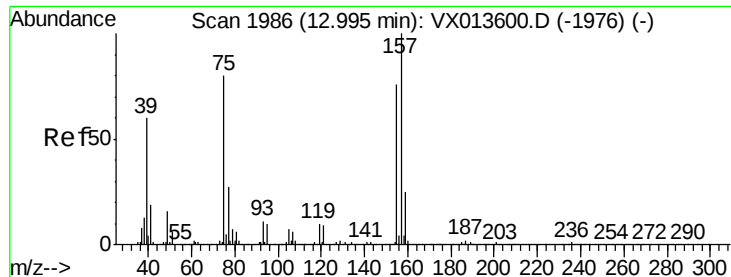
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.2 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.267 ug/l

RT: 12.83 min Scan# 1959

Delta R.T. -0.16 min

Lab File: VX013908.D

Acq: 10 Dec 2019 19:07

Instrument :

MSVOA_X

ClientSampleId :

TW-1

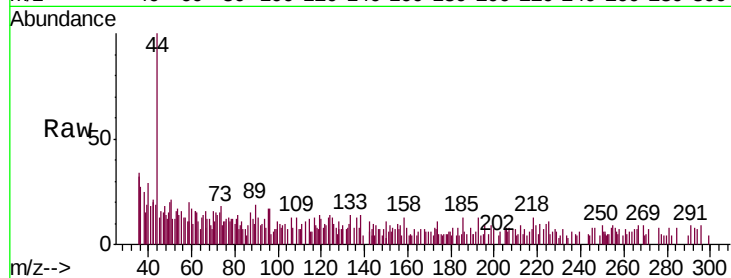
Tgt Ion: 75 Resp: 491

Ion Ratio Lower Upper

75 100

155 87.2 47.6 142.8

157 66.6 62.1 186.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

