

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011811.D
 Acq On : 23 Aug 2019 20:22
 Operator : JC/SP
 Sample : K4496-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-02-082219

Quant Time: Aug 26 01:59:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	483083	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.85	114	639875	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	571846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	292900	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	192411	39.65	ug/l	0.01
Spiked Amount			Recovery	=	79.30%	
35) Dibromofluoromethane	5.52	113	118003	28.52	ug/l	0.02
Spiked Amount			Recovery	=	57.04%	
50) Toluene-d8	8.71	98	711618	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.14	95	252558	44.27	ug/l	0.00
Spiked Amount			Recovery	=	88.54%	

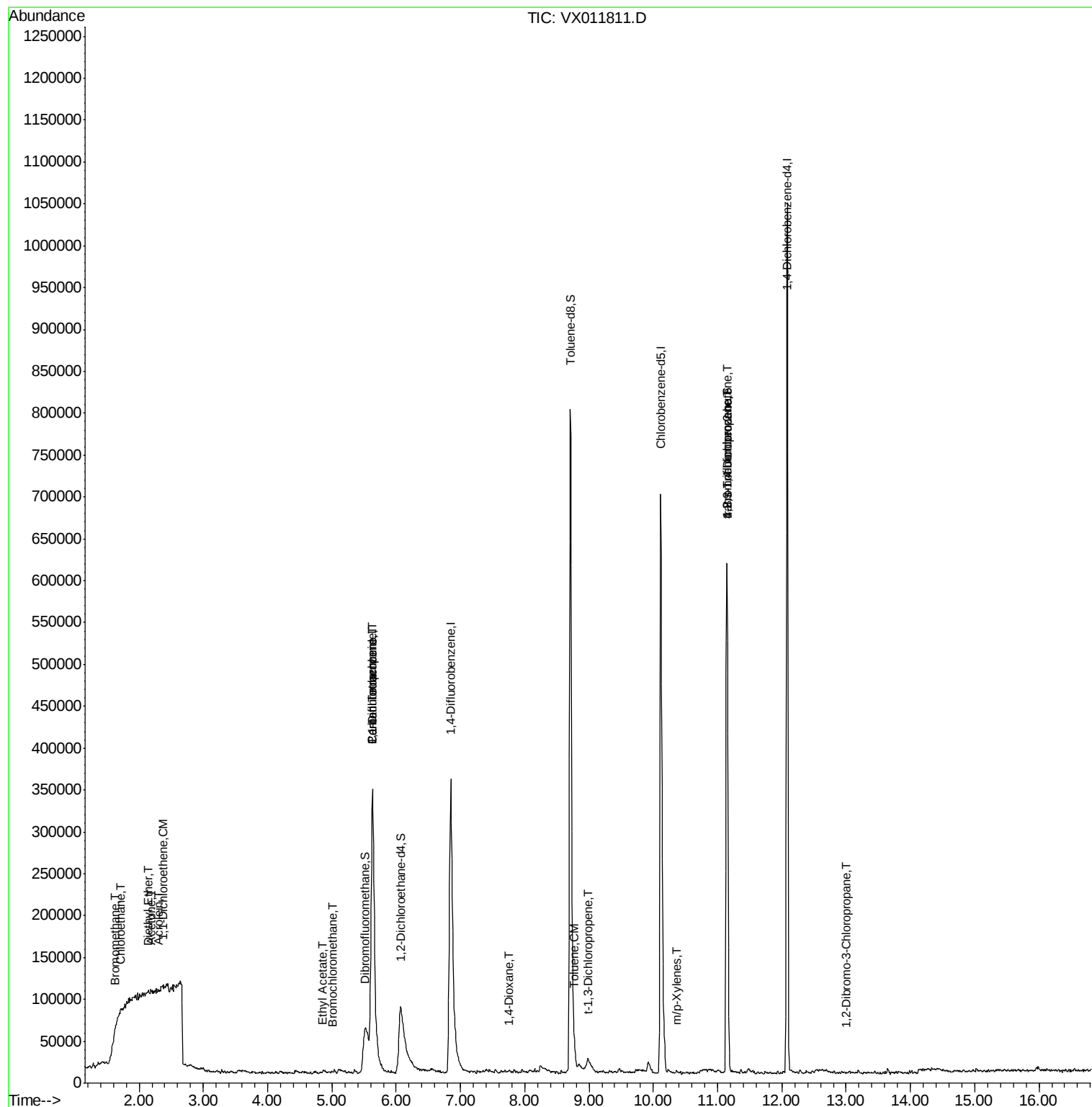
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	1499	0.688	ug/l	89
6) Chloroethane	1.72	64	836	0.362	ug/l	99
8) Diethyl Ether	2.15	74	485	0.227	ug/l	81
12) 1,1-Dichloroethene	2.37	96	1501	0.395	ug/l #	14
13) Acrolein	2.30	56	679	1.832	ug/l #	74
16) Acetone	2.18	43	601	0.285	ug/l #	52
28) Bromochloromethane	5.01	49	755	0.245	ug/l #	4
36) 1,1-Dichloropropene	5.63	75	25721	5.126	ug/l #	49
37) Ethyl Acetate	4.85	43	3477	0.655	ug/l #	84
38) Carbon Tetrachloride	5.63	117	38267	6.729	ug/l #	16
49) 1,4-Dioxane	7.74	88	114	0.962	ug/l #	26
52) Toluene	8.77	92	3435	0.342	ug/l	94
53) t-1,3-Dichloropropene	8.98	75	16337	3.005	ug/l #	50
68) m/p-Xylenes	10.36	106	1578	0.219	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	113712	22.125	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	113712	66.725	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.00	75	354	0.261	ug/l #	12

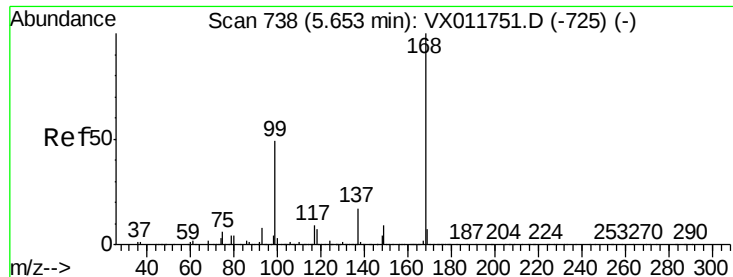
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 735

Delta R.T. -0.02 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

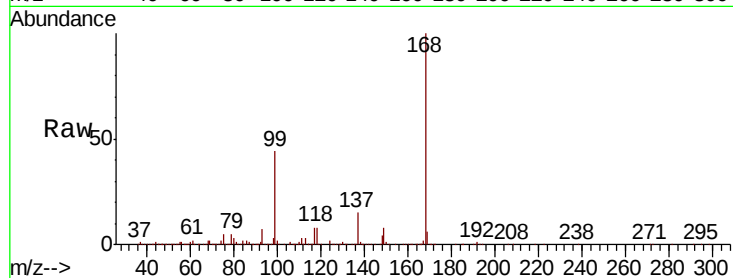
TB-02-082219

Tgt Ion:168 Resp: 483083

Ion Ratio Lower Upper

168 100

99 44.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

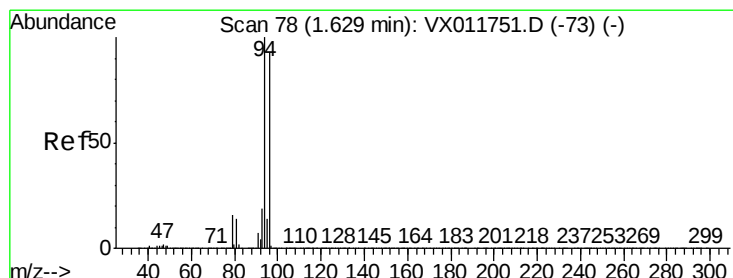
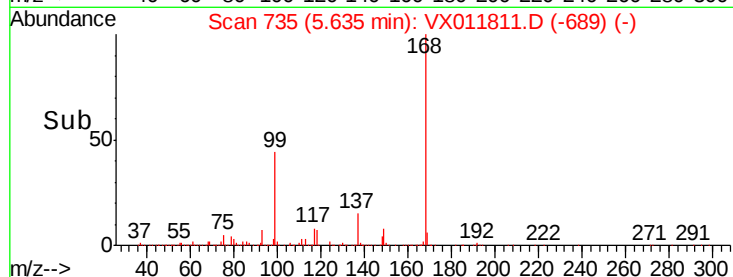
100000

50000

0

Time-->

5.40 5.60 5.80



#5

Bromomethane

Concen: 0.688 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.01 min

Lab File: VX011811.D

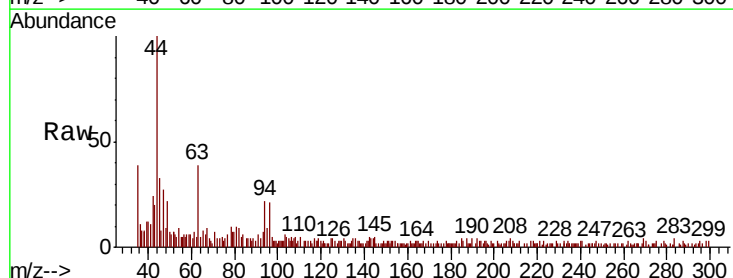
Acq: 23 Aug 2019 20:22

Tgt Ion: 94 Resp: 1499

Ion Ratio Lower Upper

94 100

96 82.0 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

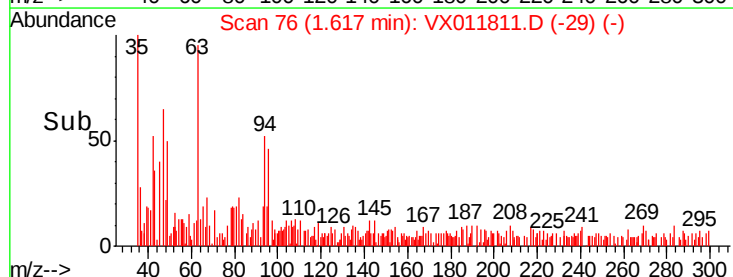
400

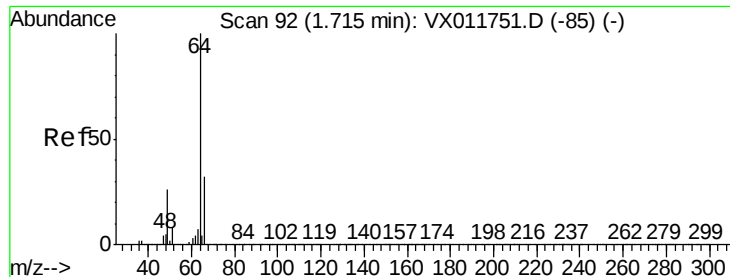
200

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.362 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

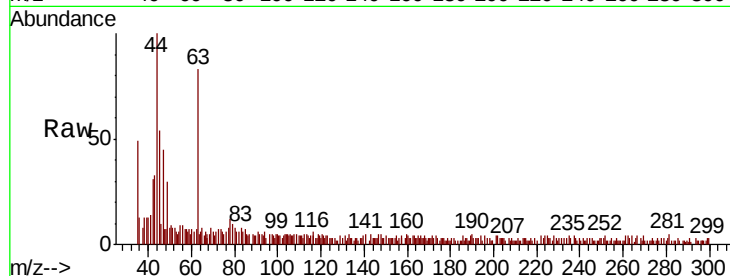
TB-02-082219

Tgt Ion: 64 Resp: 836

Ion Ratio Lower Upper

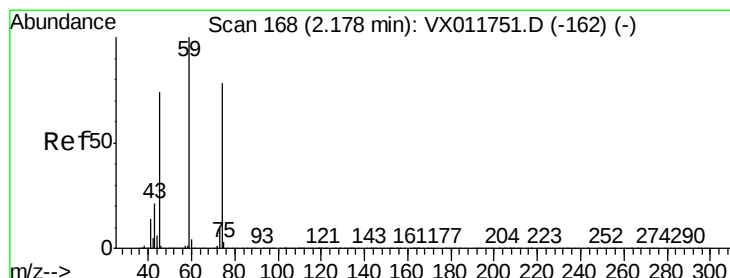
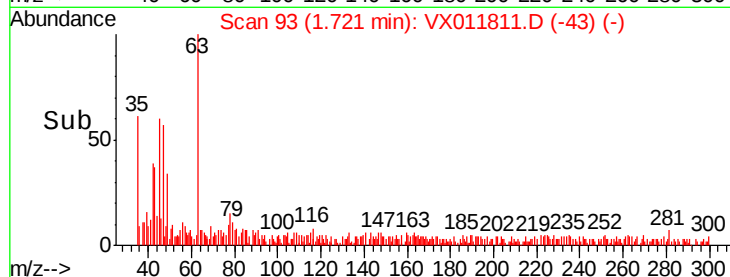
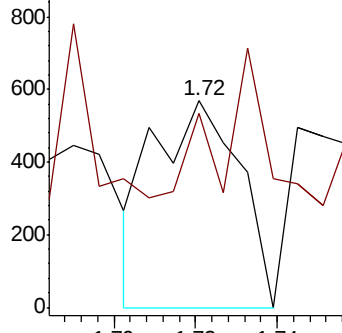
64 100

66 31.6 24.9 37.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.227 ug/l

RT: 2.15 min Scan# 164

Delta R.T. -0.02 min

Lab File: VX011811.D

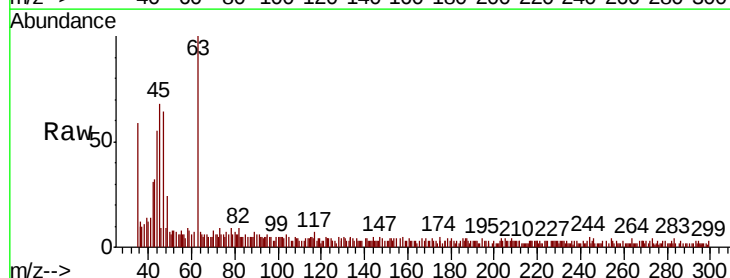
Acq: 23 Aug 2019 20:22

Tgt Ion: 74 Resp: 485

Ion Ratio Lower Upper

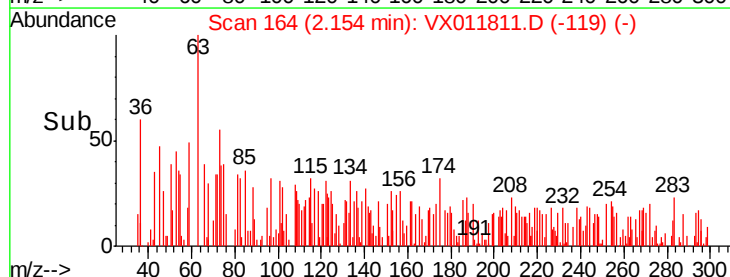
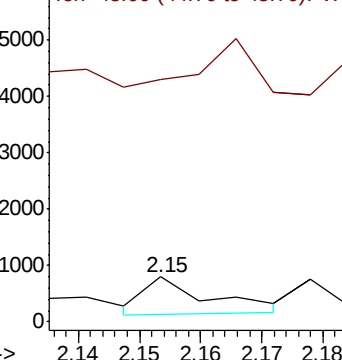
74 100

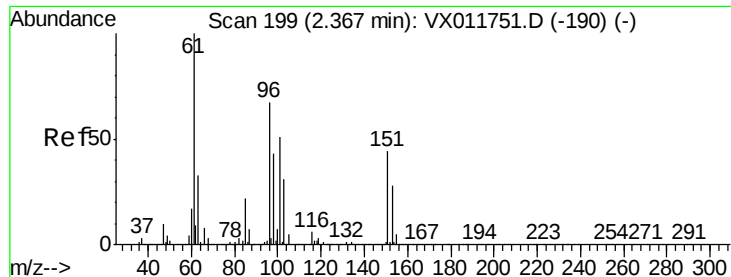
45 75.1 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#12

1,1-Dichloroethene

Concen: 0.395 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.00 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampled :

TB-02-082219

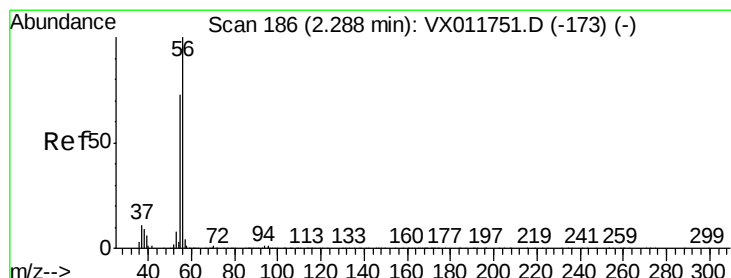
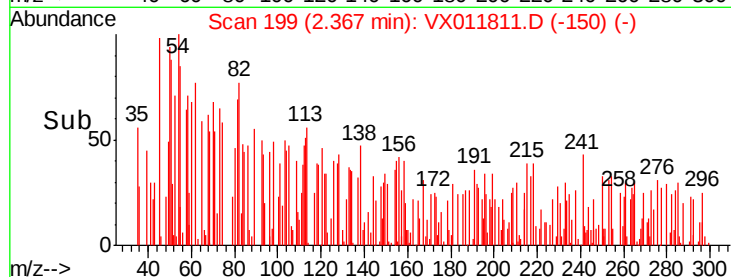
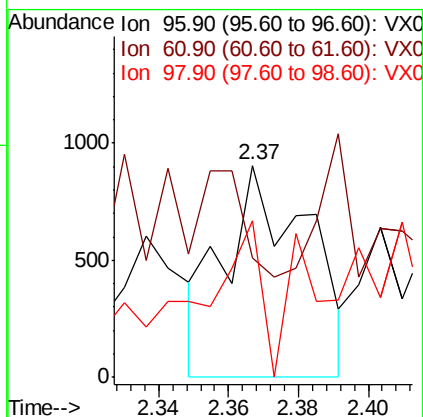
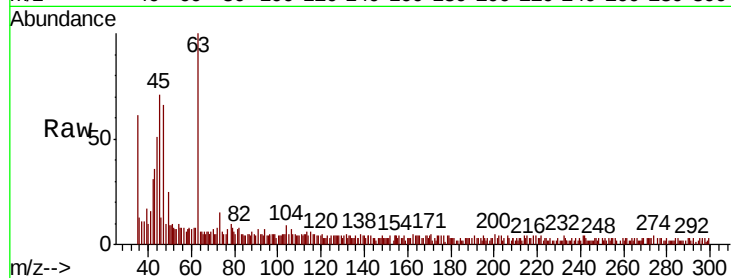
Tgt Ion: 96 Resp: 1501

Ion Ratio Lower Upper

96 100

61 0.0 119.4 179.2#

98 56.4 51.2 76.8



#13

Acrolein

Concen: 1.832 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011811.D

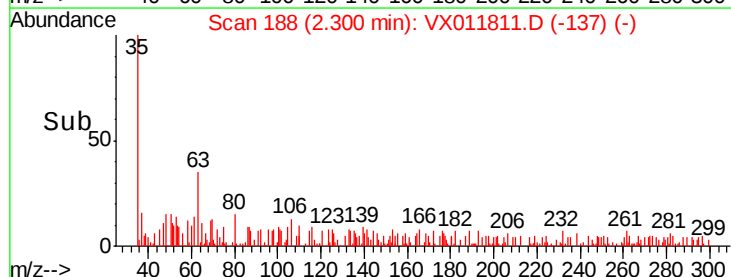
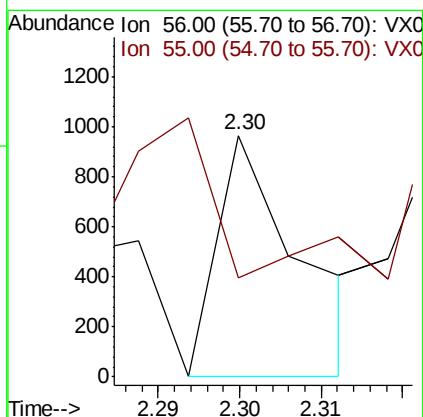
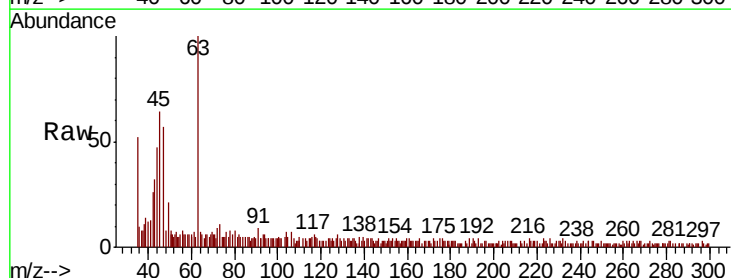
Acq: 23 Aug 2019 20:22

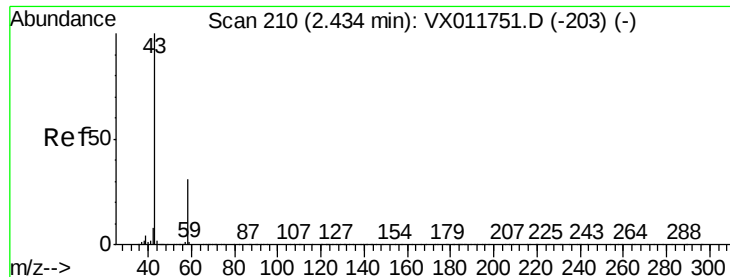
Tgt Ion: 56 Resp: 679

Ion Ratio Lower Upper

56 100

55 47.7 54.8 82.2#

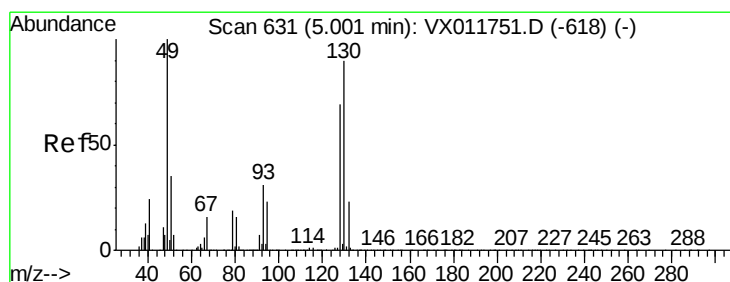
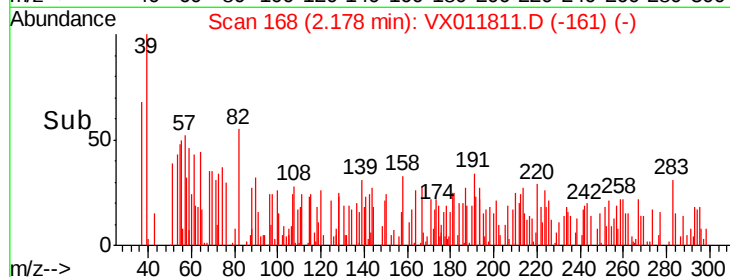
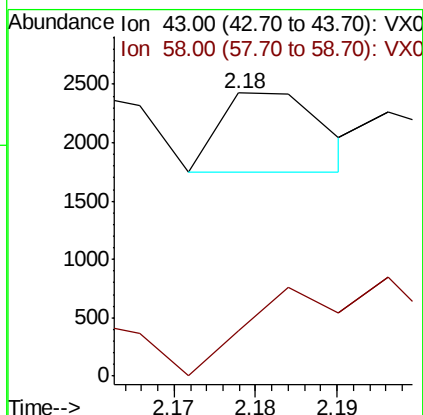
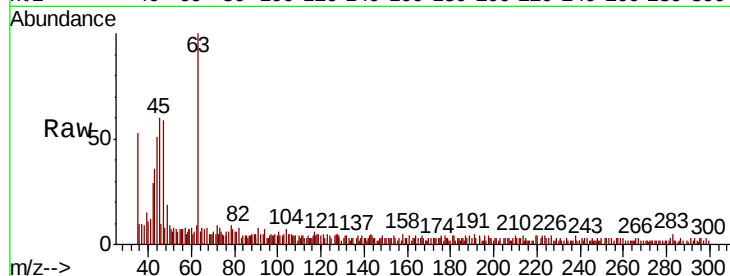




#16
Acetone
Concen: 0.285 ug/l
RT: 2.18 min Scan# 168
Delta R.T. -0.26 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

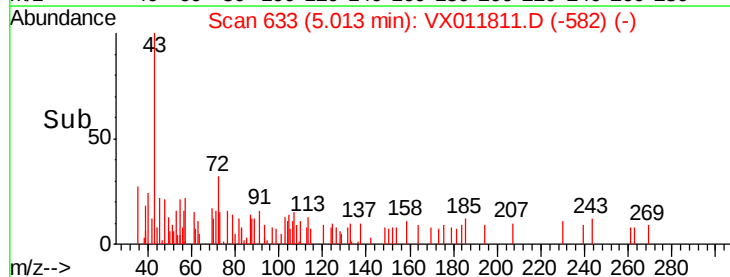
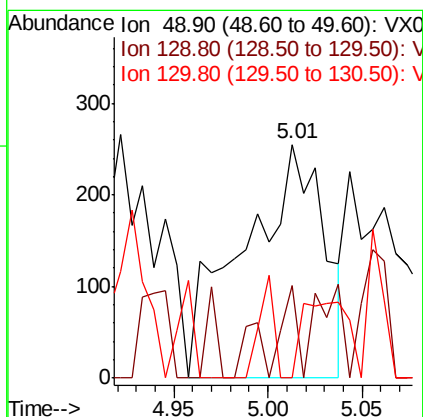
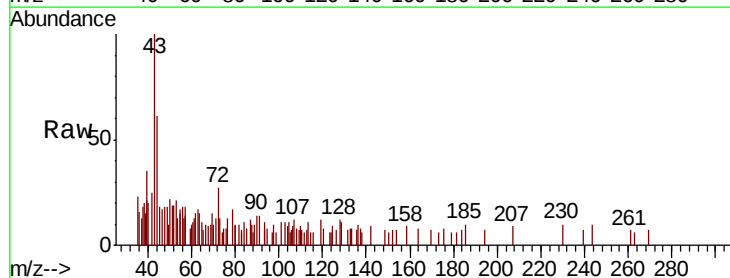
Instrument :
MSVOA_X
ClientSampleId :
TB-02-082219

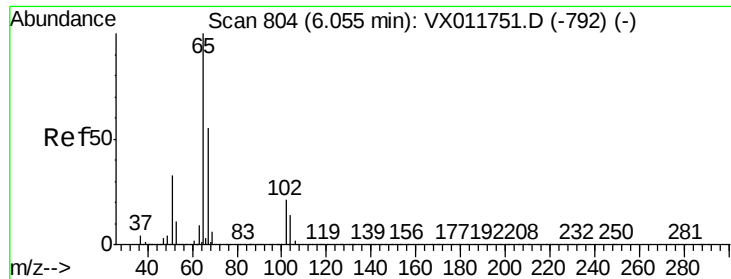
Tgt Ion: 43 Resp: 601
Ion Ratio Lower Upper
43 100
58 56.7 24.4 36.6#



#28
Bromochloromethane
Concen: 0.245 ug/l
RT: 5.01 min Scan# 633
Delta R.T. 0.01 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

Tgt Ion: 49 Resp: 755
Ion Ratio Lower Upper
49 100
129 7.4 0.0 5.8#
130 0.0 76.8 115.2#





#33

1,2-Dichloroethane-d4

Concen: 39.649 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

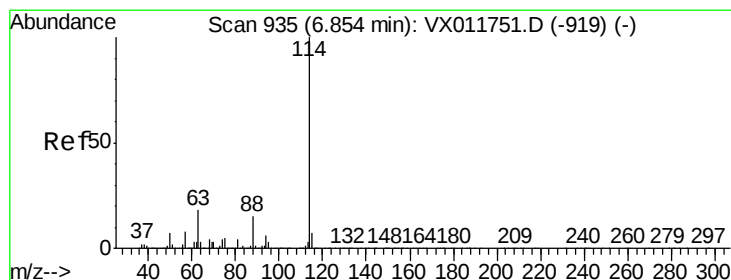
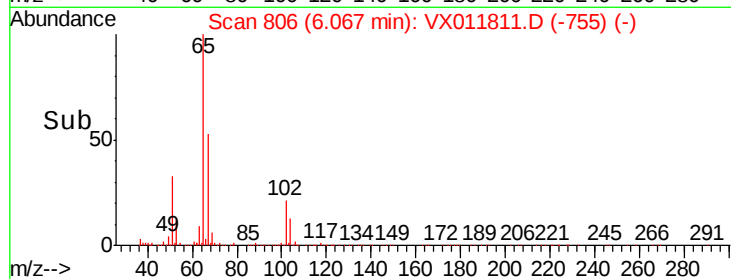
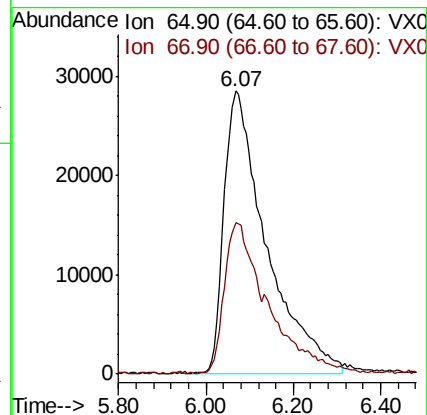
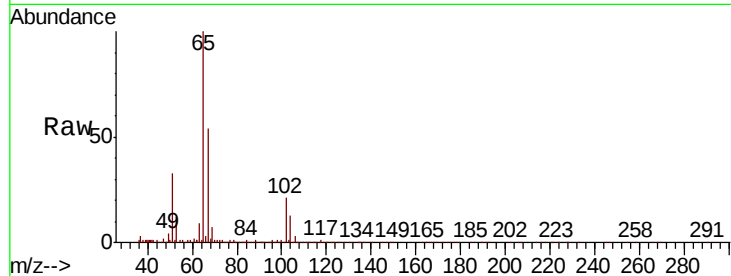
TB-02-082219

Tgt Ion: 65 Resp: 192411

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 934

Delta R.T. -0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

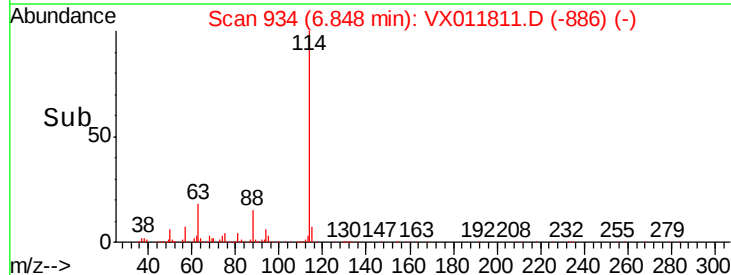
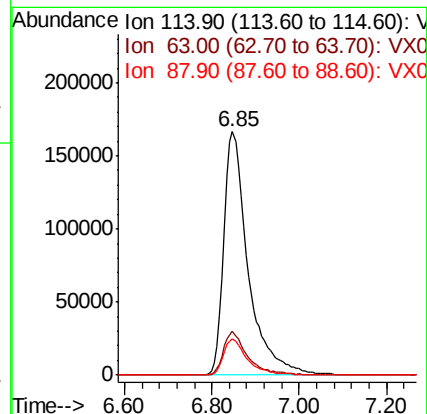
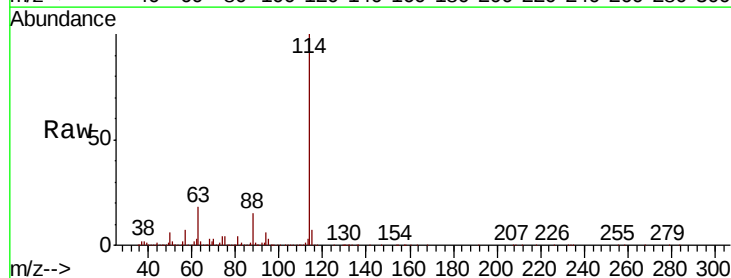
Tgt Ion: 114 Resp: 639875

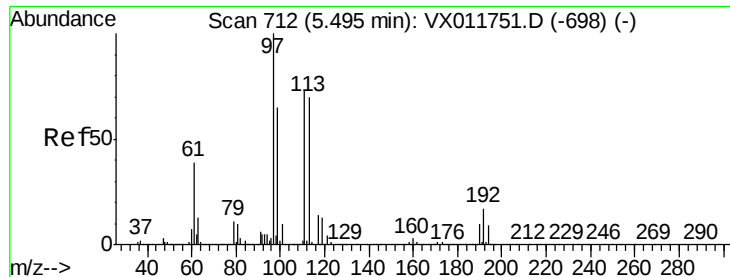
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.8

88 14.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 28.519 ug/l

RT: 5.52 min Scan# 716

Delta R.T. 0.02 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

TB-02-082219

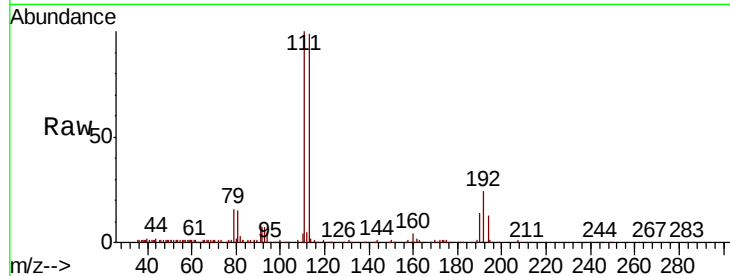
Tgt Ion:113 Resp: 118003

Ion Ratio Lower Upper

113 100

111 97.7 81.0 121.4

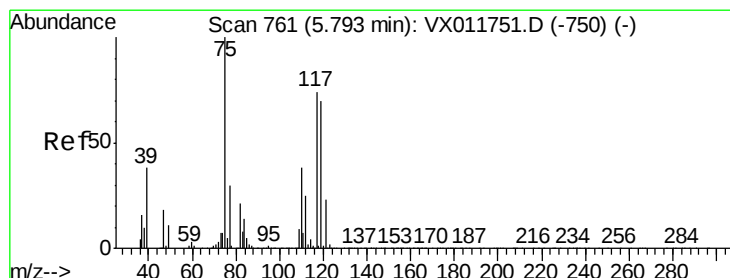
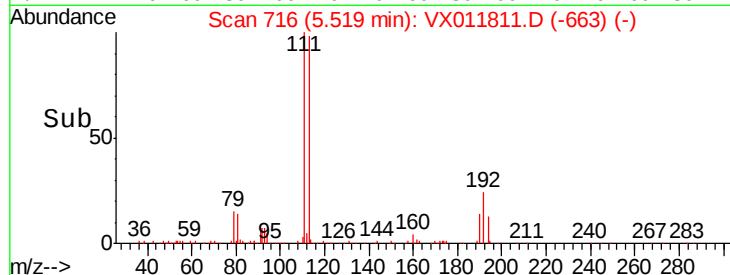
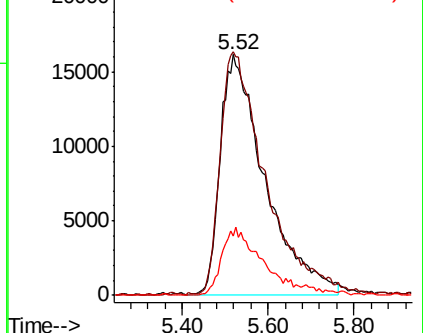
192 23.0 19.9 29.9



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: 5.126 ug/l

RT: 5.63 min Scan# 734

Delta R.T. -0.16 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

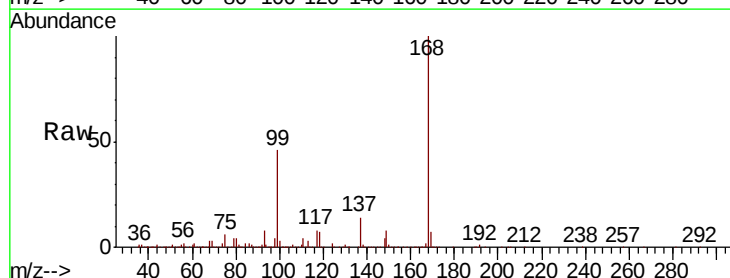
Tgt Ion: 75 Resp: 25721

Ion Ratio Lower Upper

75 100

110 9.1 19.0 57.0#

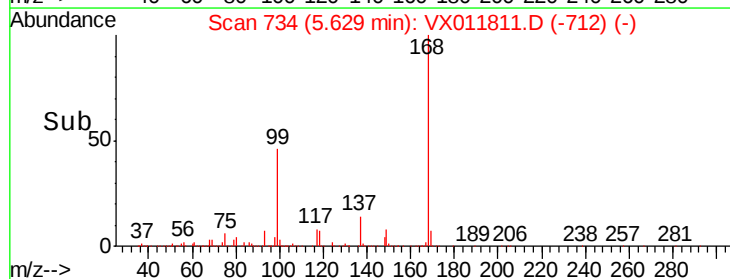
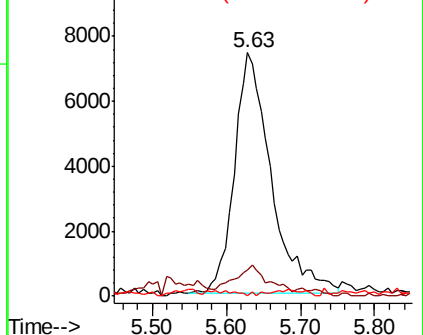
77 0.6 24.6 36.8#

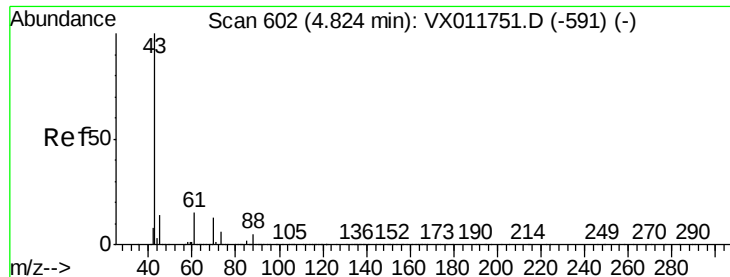


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

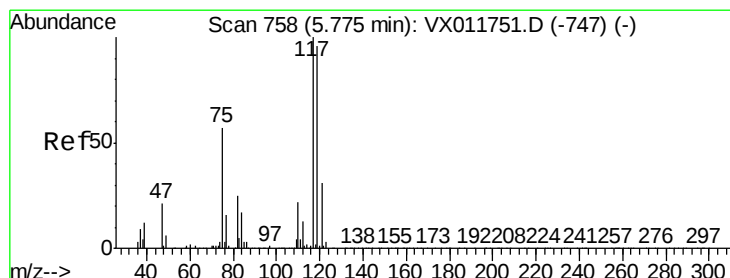
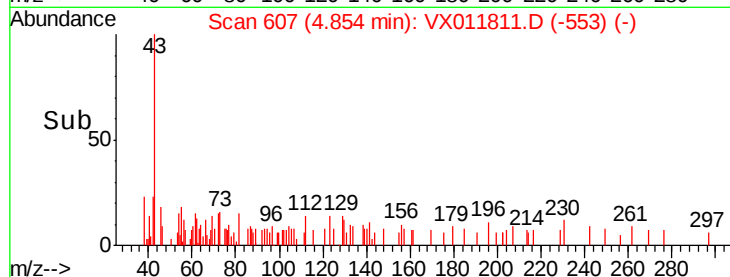
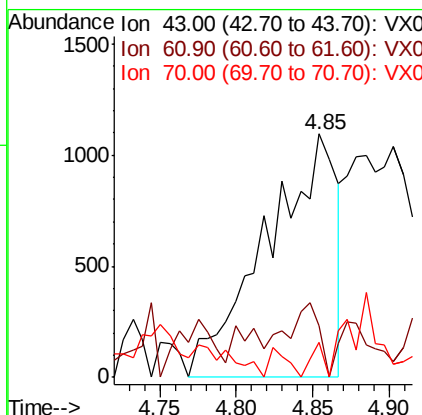
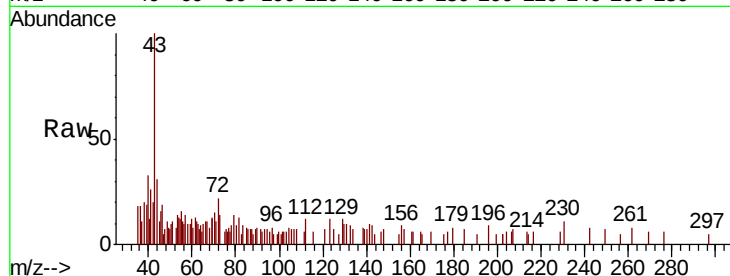




#37
Ethyl Acetate
Concen: 0.655 ug/l
RT: 4.85 min Scan# 607
Delta R.T. 0.03 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

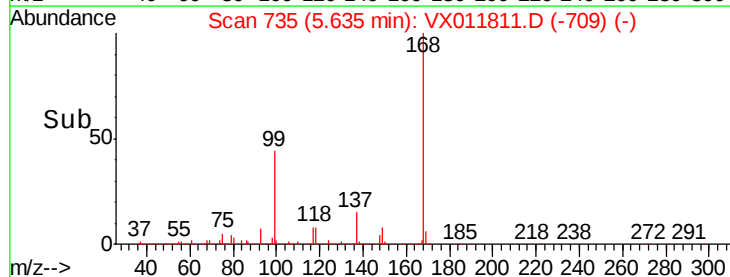
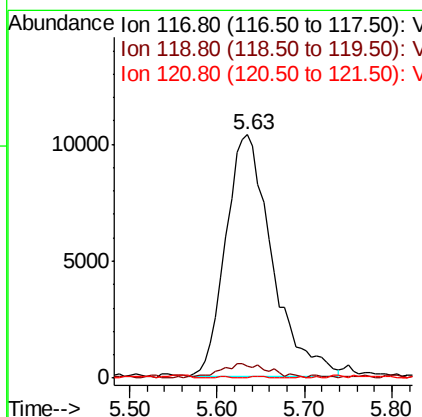
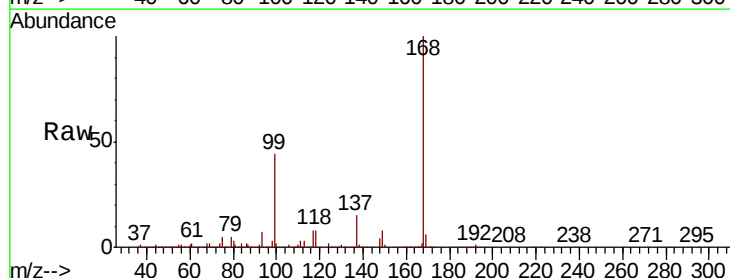
Instrument :
MSVOA_X
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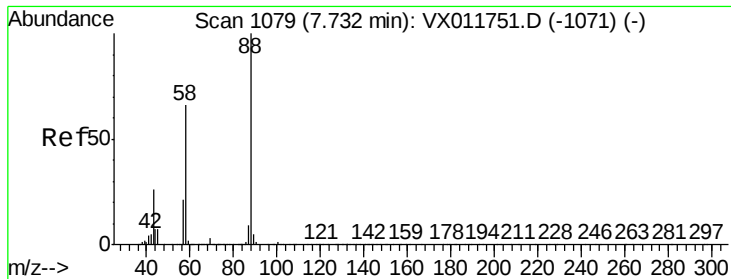
Tgt Ion: 43 Resp: 3477
Ion Ratio Lower Upper
43 100
61 13.1 11.5 17.3
70 0.0 9.5 14.3#



#38
Carbon Tetrachloride
Concen: 6.729 ug/l
RT: 5.63 min Scan# 735
Delta R.T. -0.14 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

Tgt Ion: 117 Resp: 38267
Ion Ratio Lower Upper
117 100
119 5.2 76.6 114.8#
121 0.0 25.2 37.8#





#49

1,4-Dioxane

Concen: 0.962 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

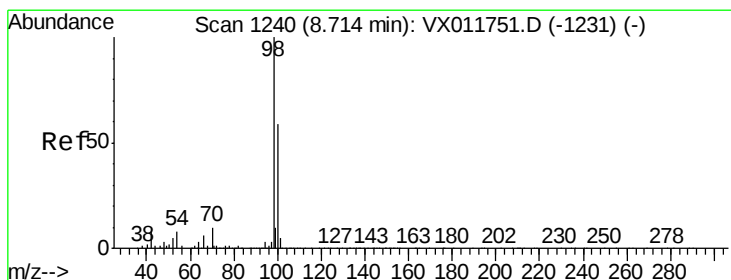
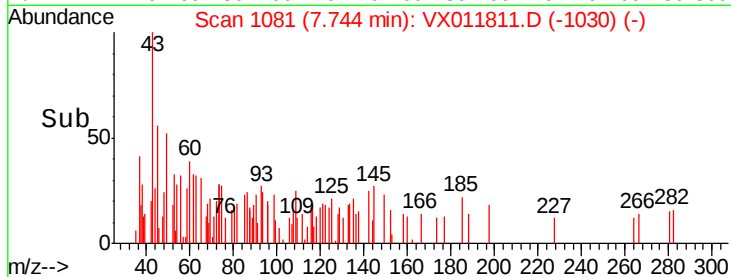
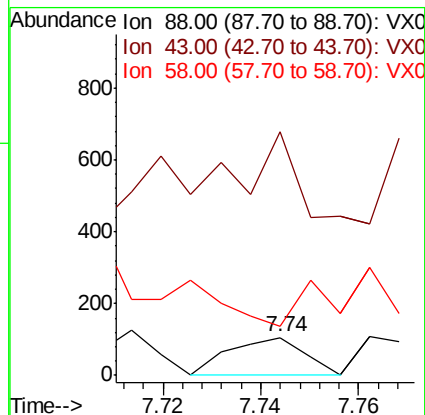
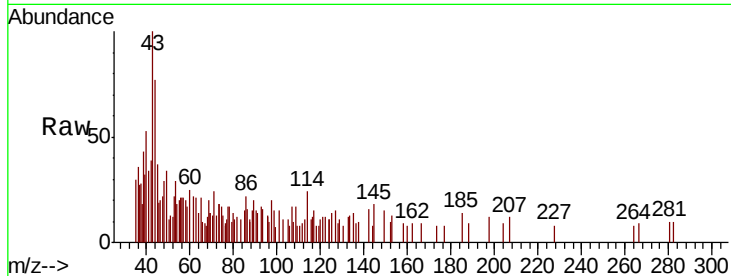
Instrument :

MSVOA_X

ClientSampleId :

TB-02-082219

Tgt Ion:	88	Resp:	114
Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.6	37.0#
58	0.0	51.4	77.2#



#50

Toluene-d8

Concen: 49.307 ug/l

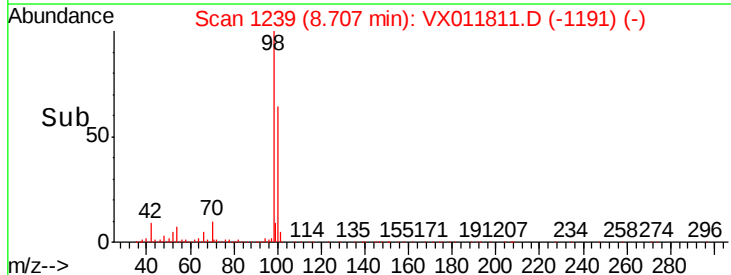
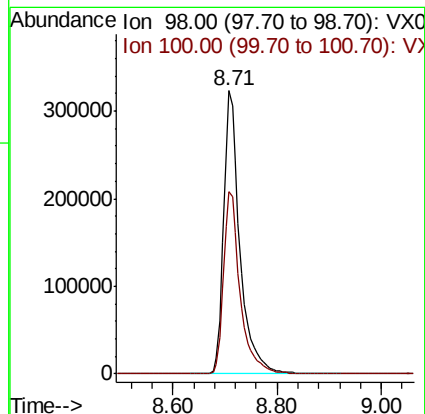
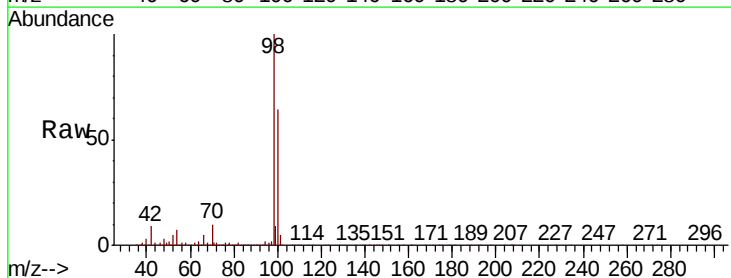
RT: 8.71 min Scan# 1239

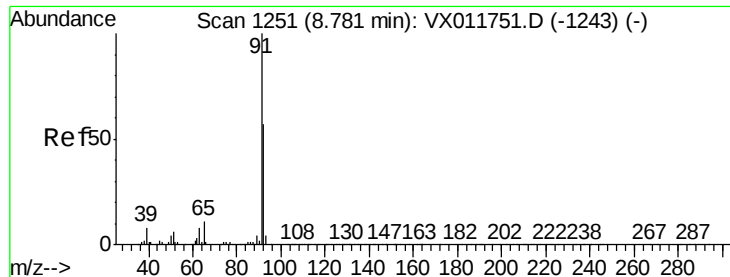
Delta R.T. -0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Tgt Ion:	98	Resp:	711618
Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.1	78.1





#52

Toluene

Concen: 0.342 ug/l

RT: 8.77 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

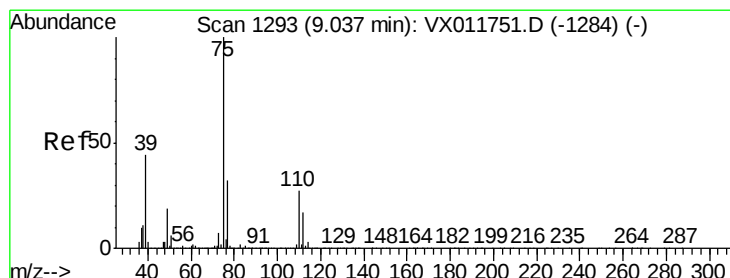
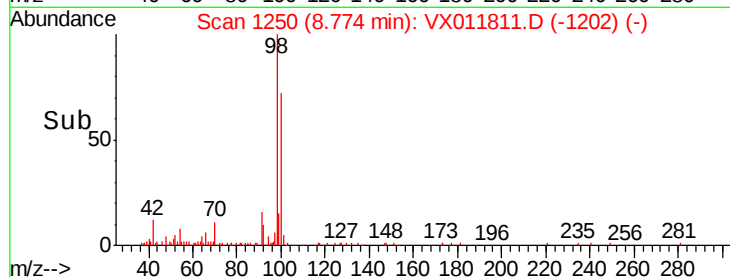
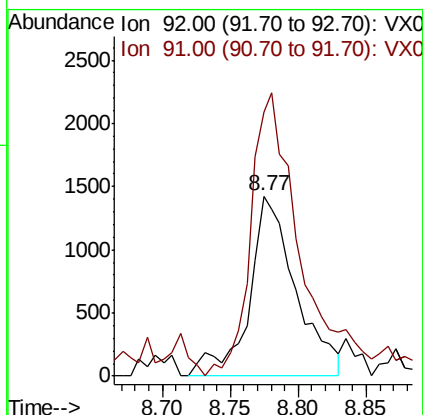
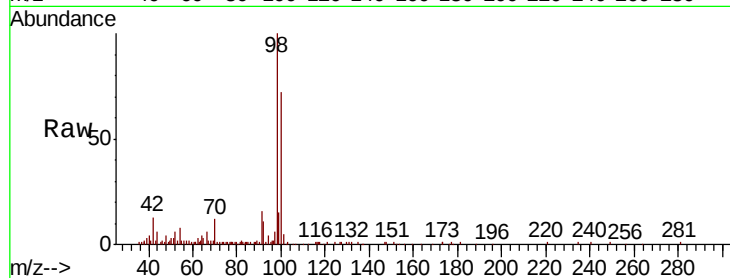
TB-02-082219

Tgt Ion: 92 Resp: 3435

Ion Ratio Lower Upper

92 100

91 165.3 138.6 207.8



#53

t-1,3-Dichloropropene

Concen: 3.005 ug/l

RT: 8.98 min Scan# 1284

Delta R.T. -0.06 min

Lab File: VX011811.D

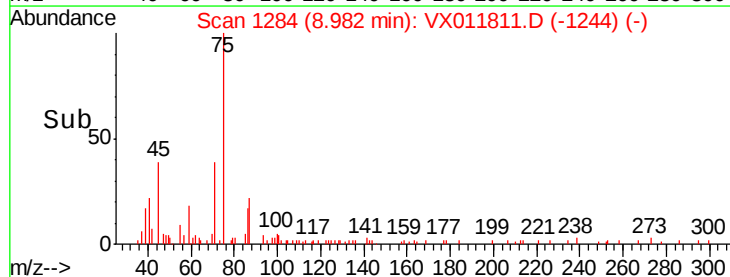
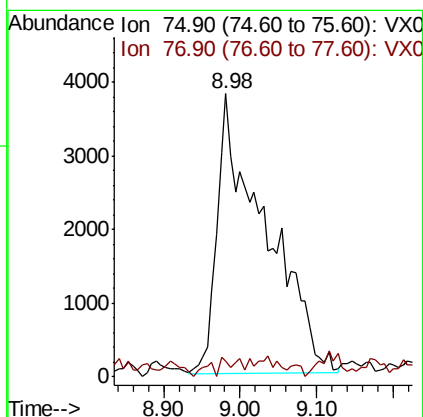
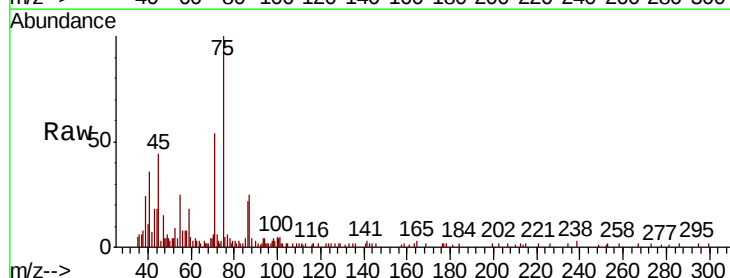
Acq: 23 Aug 2019 20:22

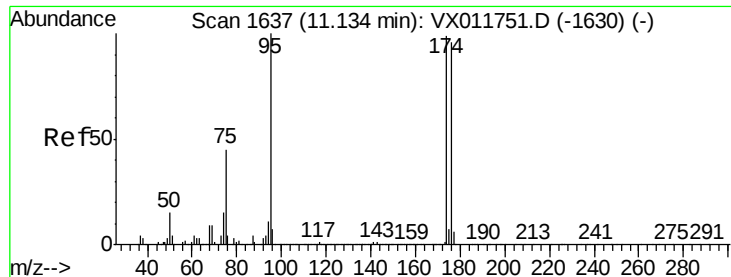
Tgt Ion: 75 Resp: 16337

Ion Ratio Lower Upper

75 100

77 3.8 25.4 38.0#

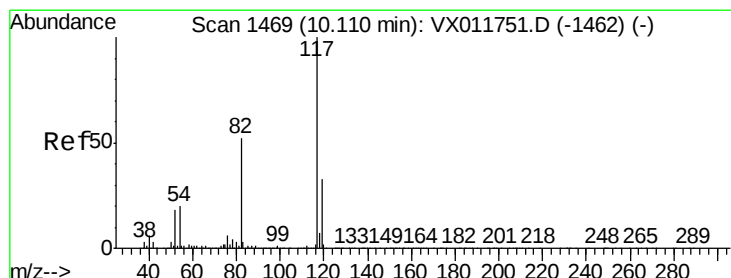
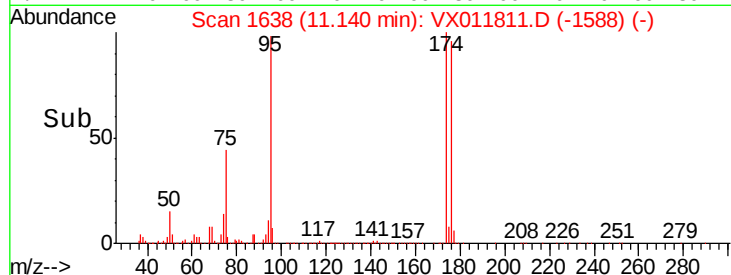
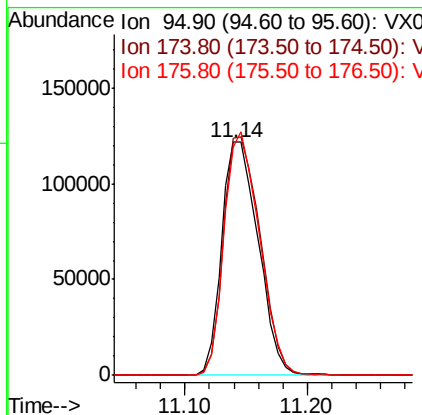
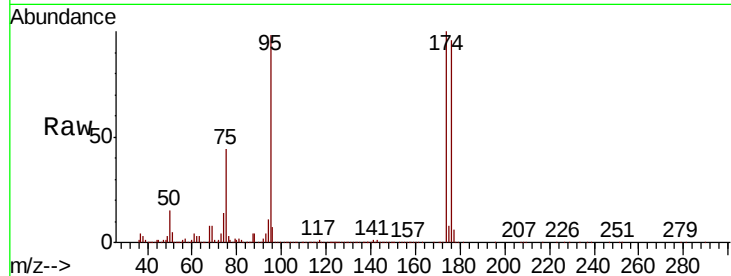




#62
4-Bromofluorobenzene
Concen: 44.273 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

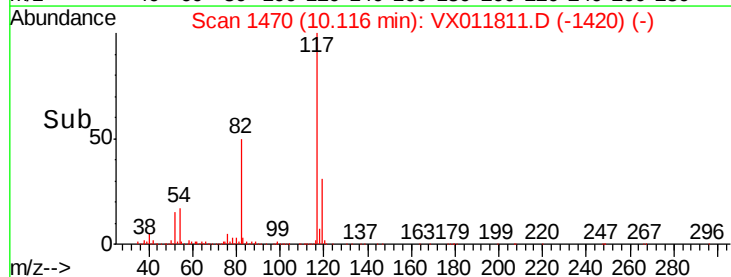
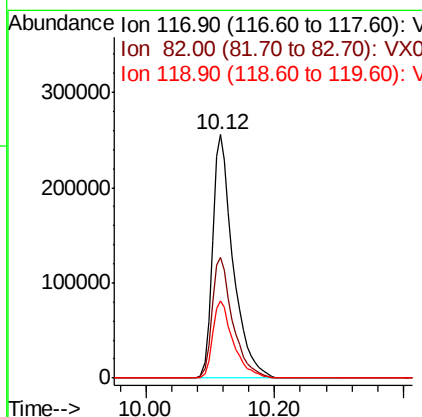
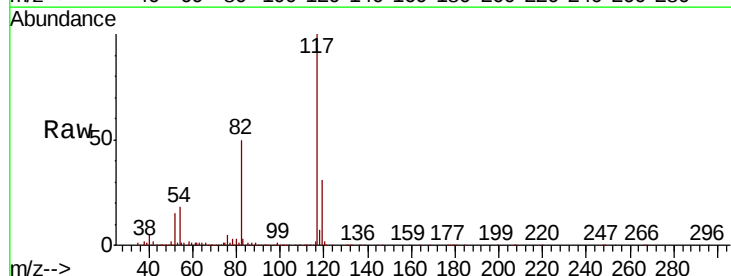
Instrument :
MSVOA_X
ClientSampleId :
TB-02-082219

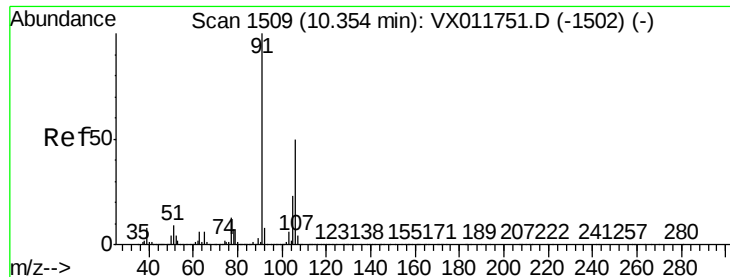
Tgt Ion: 95 Resp: 252558
Ion Ratio Lower Upper
95 100
174 102.7 0.0 197.4
176 100.9 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX011811.D
Acq: 23 Aug 2019 20:22

Tgt Ion: 117 Resp: 571846
Ion Ratio Lower Upper
117 100
82 49.6 41.7 62.5
119 31.4 26.2 39.2





#68

m/p-Xylenes

Concen: 0.219 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

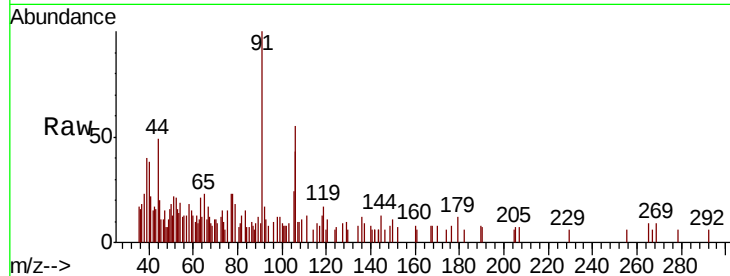
TB-02-082219

Tgt Ion:106 Resp: 1578

Ion Ratio Lower Upper

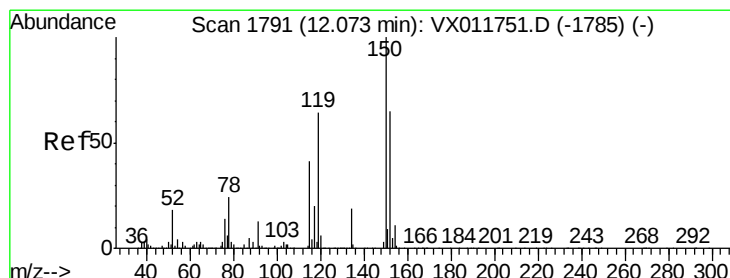
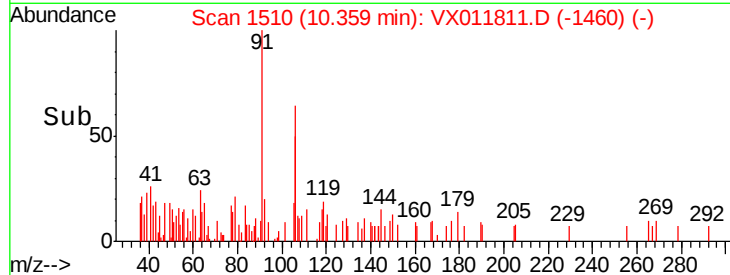
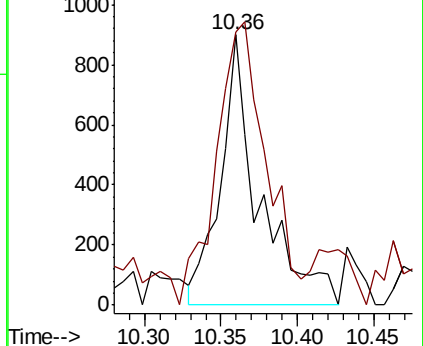
106 100

91 134.3 158.3 237.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

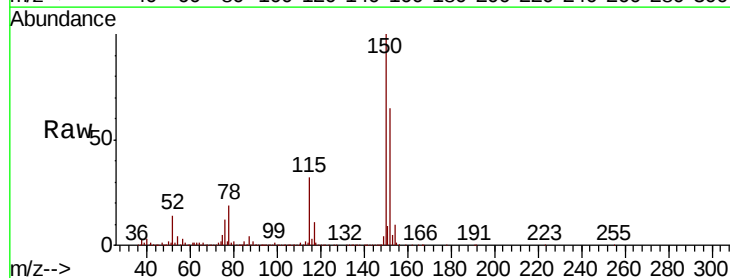
Tgt Ion:152 Resp: 292900

Ion Ratio Lower Upper

152 100

115 51.6 37.3 111.8

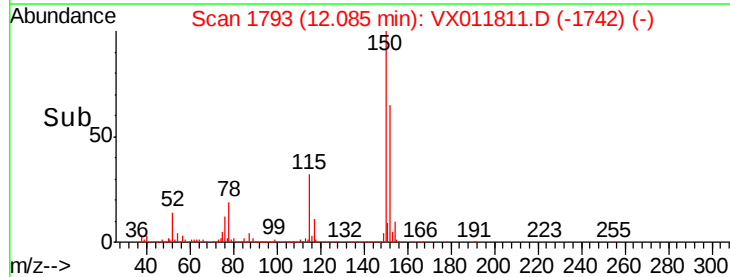
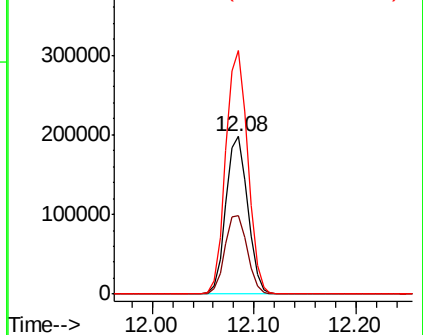
150 155.9 0.0 343.0

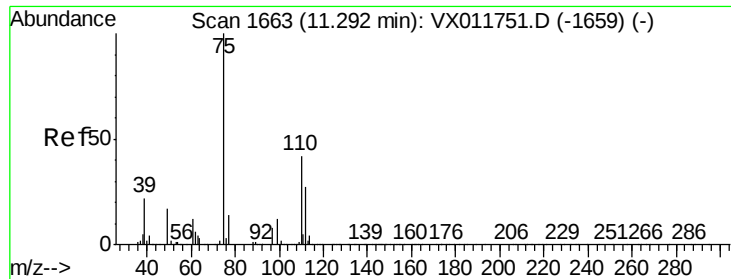


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.125 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.15 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

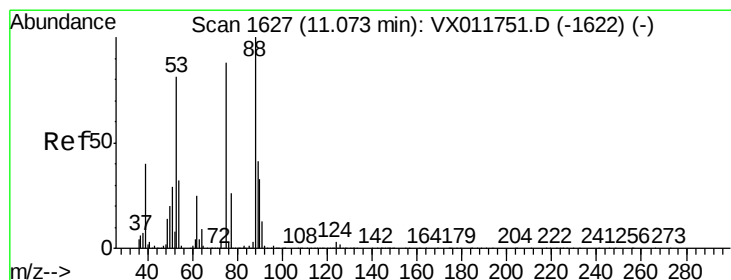
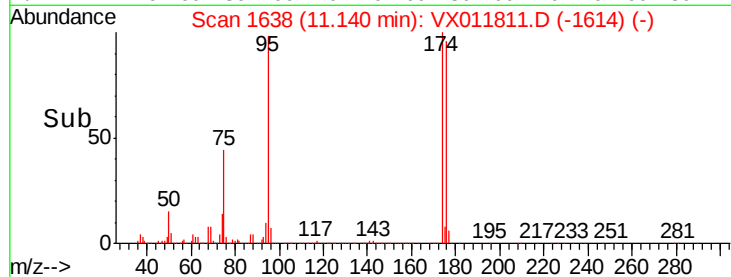
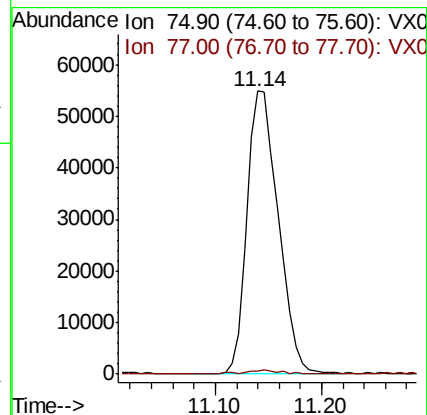
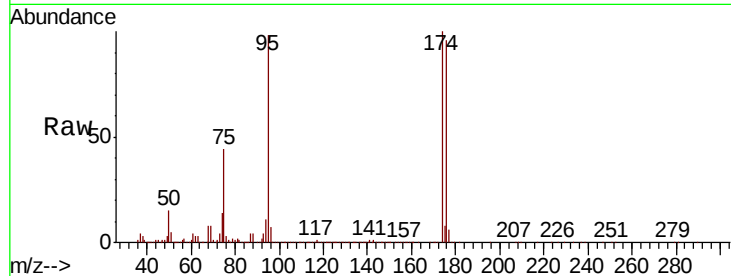
TB-02-082219

Tgt Ion: 75 Resp: 113712

Ion Ratio Lower Upper

75 100

77 1.8 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.725 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

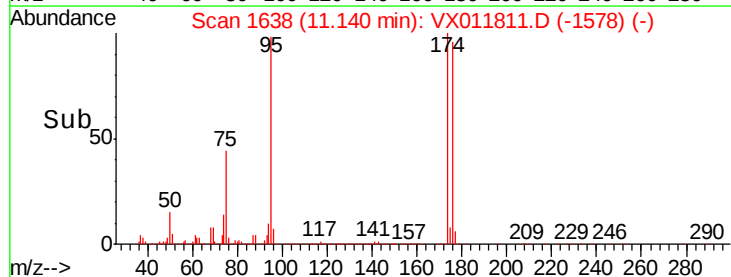
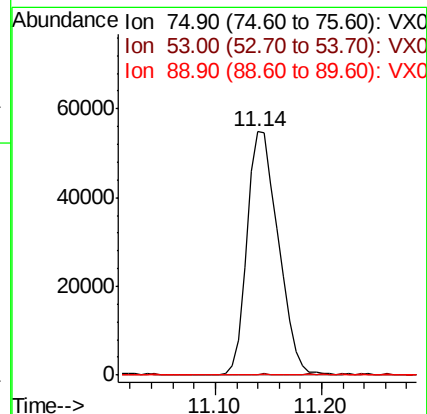
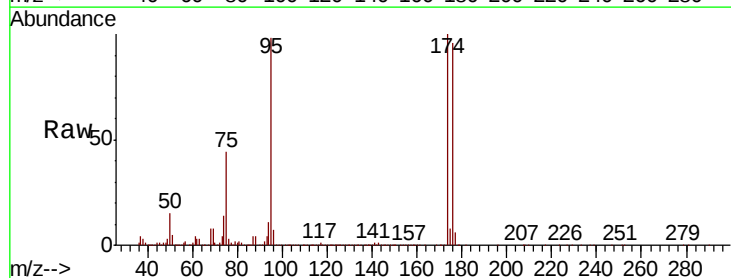
Tgt Ion: 75 Resp: 113712

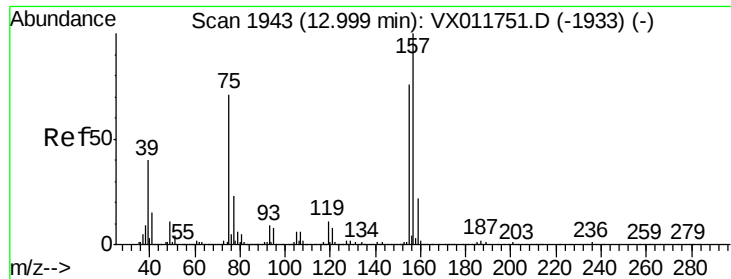
Ion Ratio Lower Upper

75 100

53 0.2 77.1 115.7#

89 0.0 38.5 57.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.261 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX011811.D

Acq: 23 Aug 2019 20:22

Instrument :

MSVOA_X

ClientSampleId :

TB-02-082219

Tgt Ion: 75 Resp: 354

Ion Ratio Lower Upper

75 100

155 6.8 52.6 157.9#

157 37.3 68.3 204.9#

