

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014096.D
 Acq On : 18 Dec 2019 15:01
 Operator : JC/SP
 Sample : K6365-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-191217

Quant Time: Dec 19 02:59:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	551570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	843715	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	764124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	327231	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	308066	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
35) Dibromofluoromethane	5.49	113	253072	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
50) Toluene-d8	8.71	98	1007972	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
62) 4-Bromofluorobenzene	11.13	95	338072	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

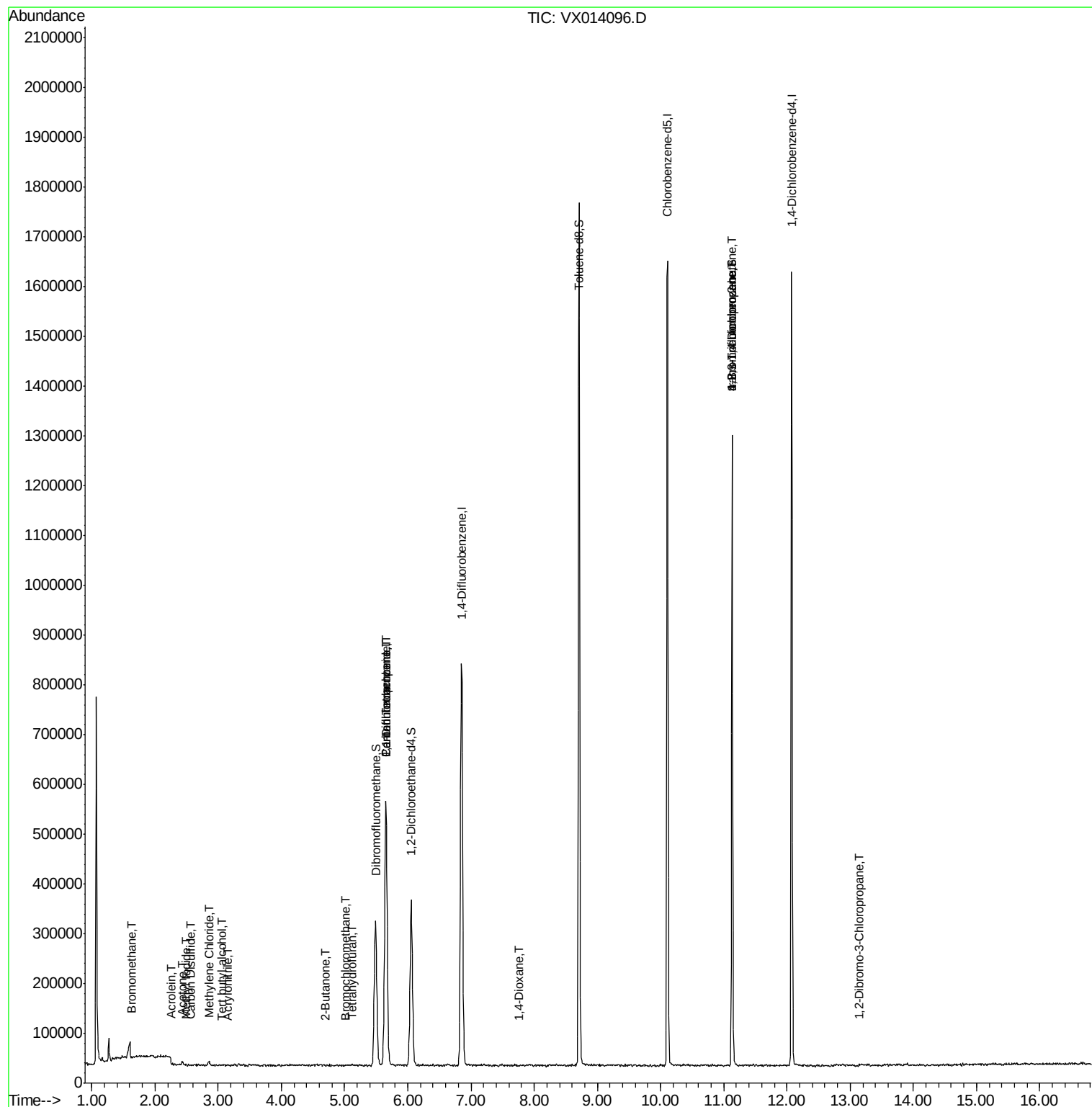
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1355	0.273	ug/l #	24
10) Methyl Iodide	2.50	142	323	2.665	ug/l #	27
11) Tert butyl alcohol	3.06	59	354	0.262	ug/l #	72
13) Acrolein	2.26	56	274	0.354	ug/l	88
15) Acrylonitrile	3.16	53	637	0.202	ug/l	95
16) Acetone	2.43	43	8797	2.168	ug/l	93
17) Carbon Disulfide	2.57	76	890	0.810	ug/l #	75
20) Methylene Chloride	2.84	84	4888	0.765	ug/l	96
25) 2-Butanone	4.69	43	2615	0.523	ug/l #	49
28) Bromochloromethane	5.01	49	739	0.635	ug/l #	8
29) Tetrahydrofuran	5.12	42	1052	0.376	ug/l #	78
36) 1,1-Dichloropropene	5.65	75	38495	4.973	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48591	6.890	ug/l #	16
49) 1,4-Dioxane	7.75	88	92	0.653	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	165963	23.361	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	165963	65.938	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.15	75	494	0.279	ug/l	87

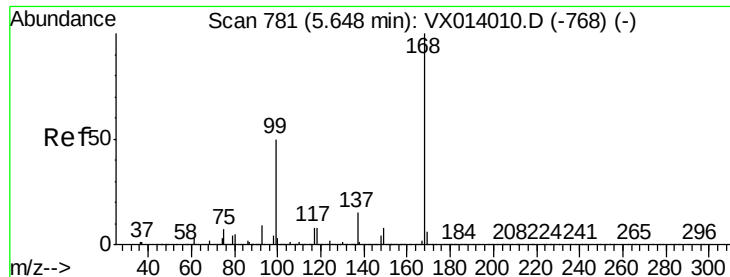
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

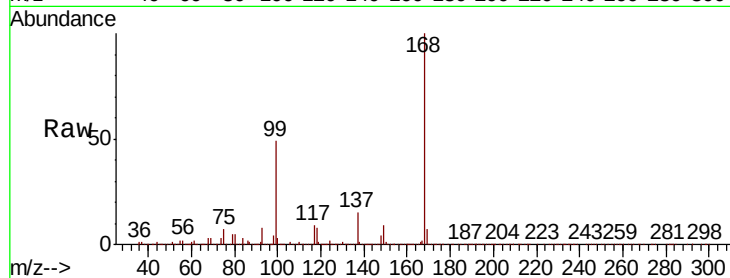
TB-01-191217

Tot Ion:168 Resp: 551570

Ion Ratio Lower Upper

168 100

99 49.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

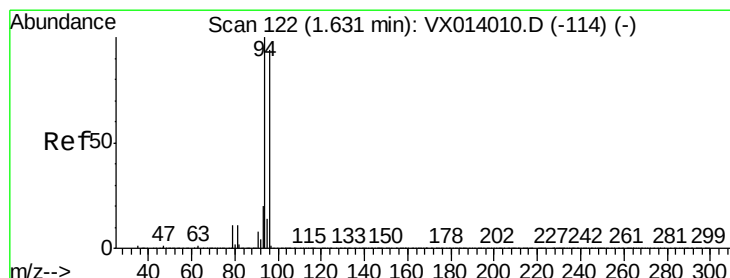
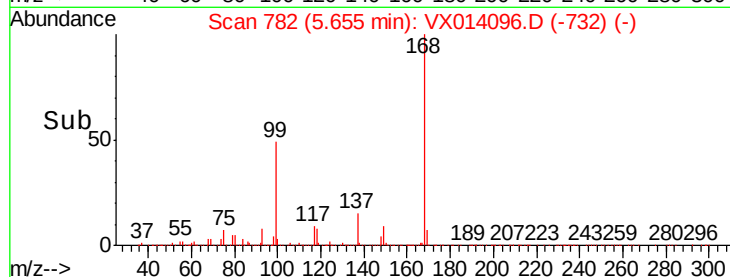
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.273 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014096.D

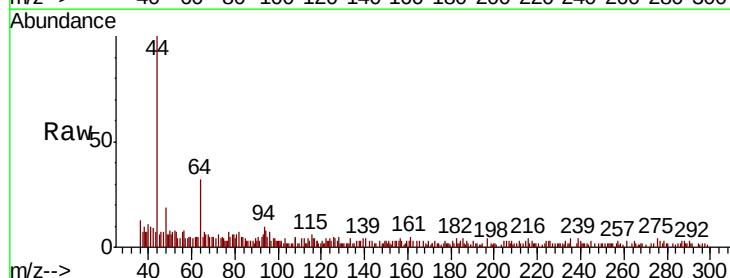
Acq: 18 Dec 2019 15:01

Tgt Ion: 94 Resp: 1355

Ion Ratio Lower Upper

94 100

96 20.3 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

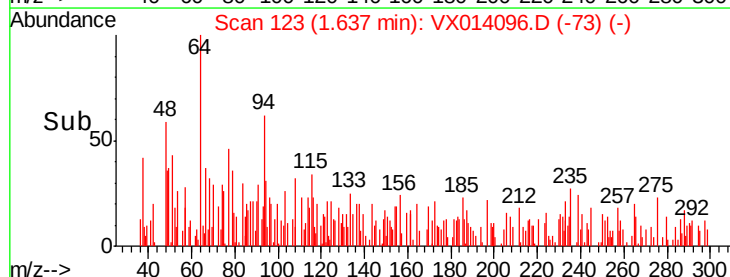
600

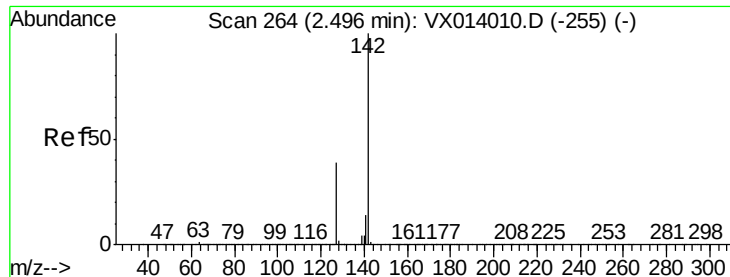
400

200

0

Time-->

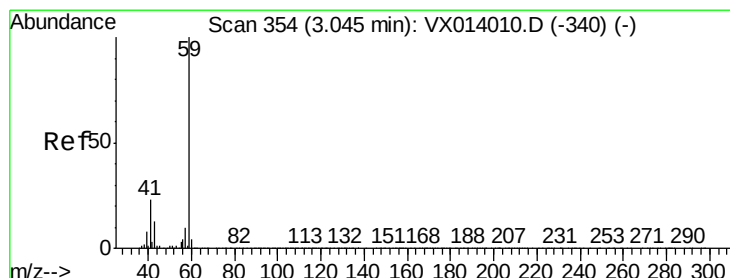
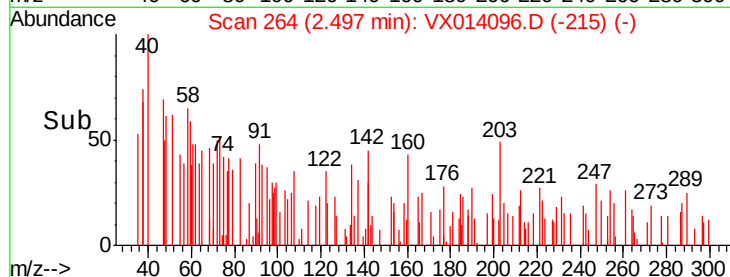
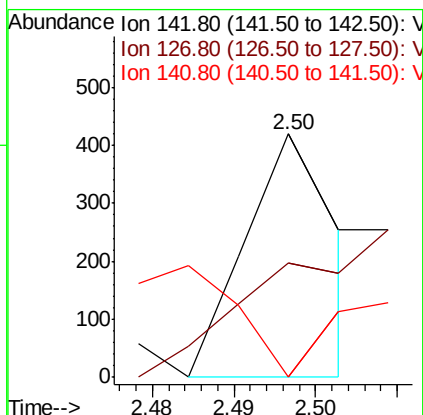
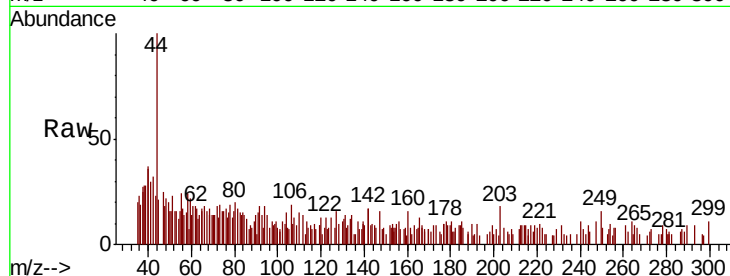




#10
Methvl Iodide
Concen: 2.665 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

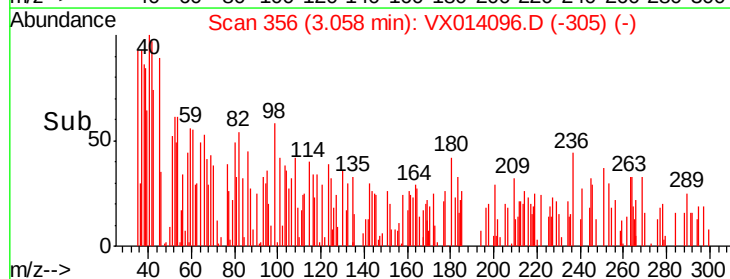
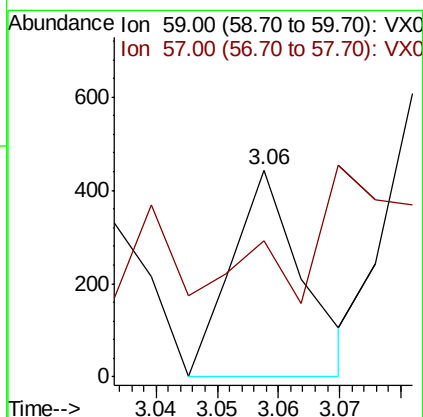
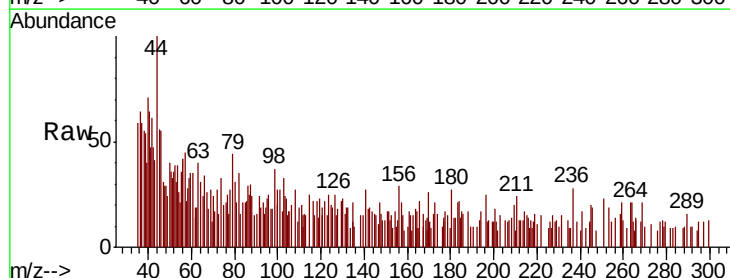
Instrument :
MSVOA_X
ClientSampleId :
TB-01-191217

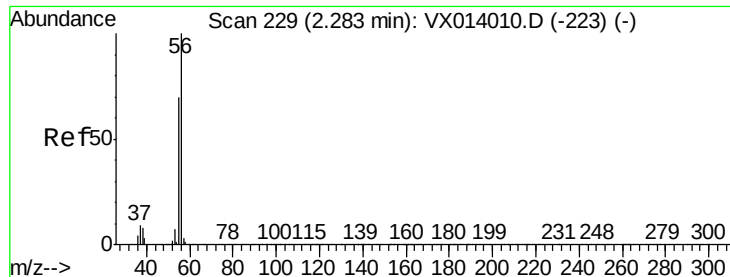
Tot Ion:142 Resp: 323
Ion Ratio Lower Upper
142 100
127 0.0 31.6 47.4#
141 53.9 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.262 ug/l
RT: 3.06 min Scan# 356
Delta R.T. 0.01 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

Tgt Ion: 59 Resp: 354
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.354 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampled :

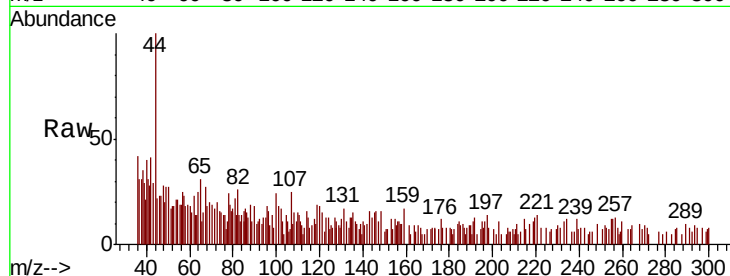
TB-01-191217

Tot Ion: 56 Resp: 274

Ion Ratio Lower Upper

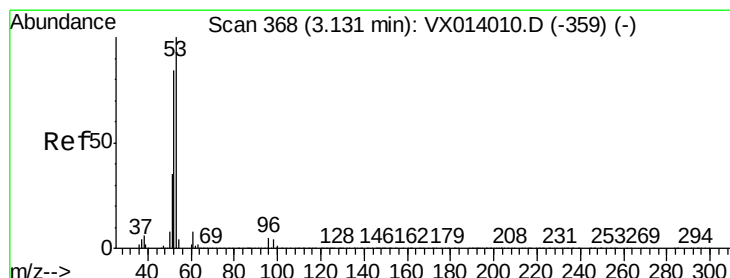
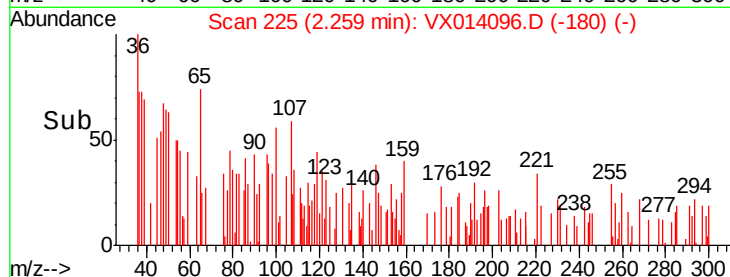
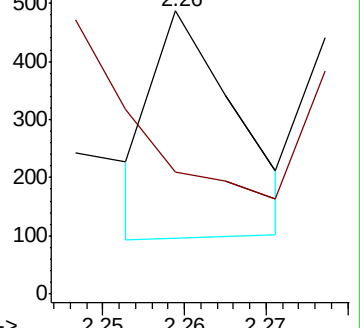
56 100

55 81.0 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.202 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.02 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

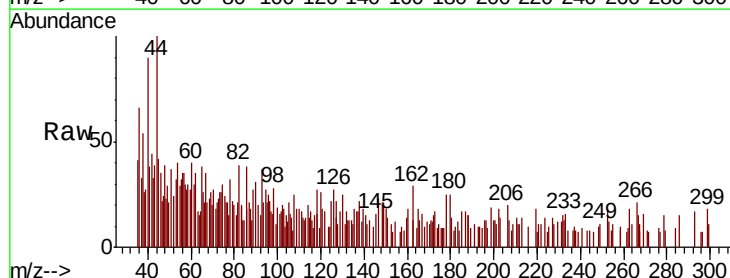
Tgt Ion: 53 Resp: 637

Ion Ratio Lower Upper

53 100

52 89.6 66.5 99.7

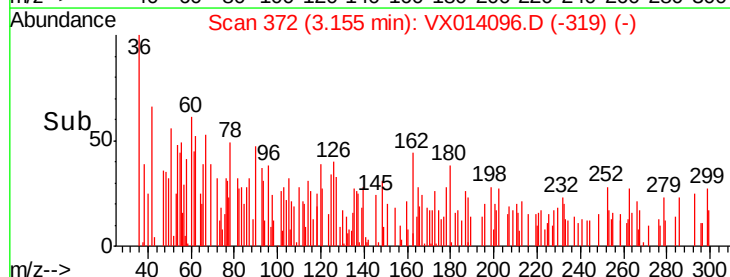
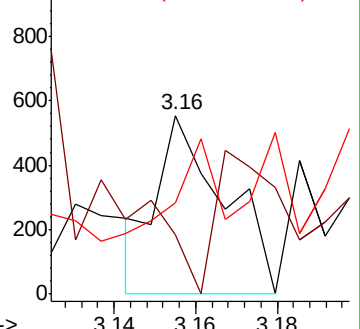
51 34.9 28.1 42.1

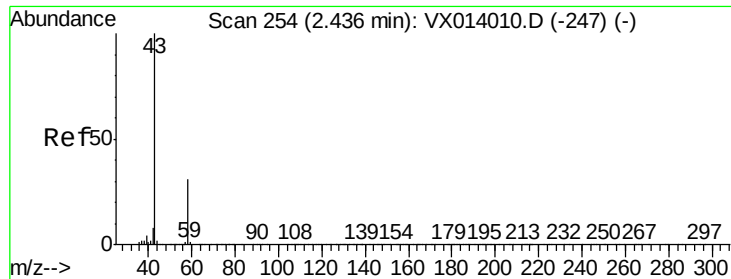


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

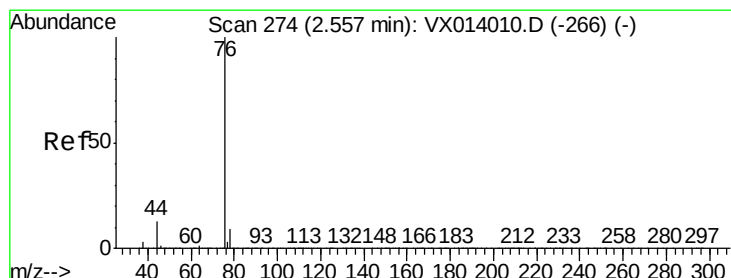
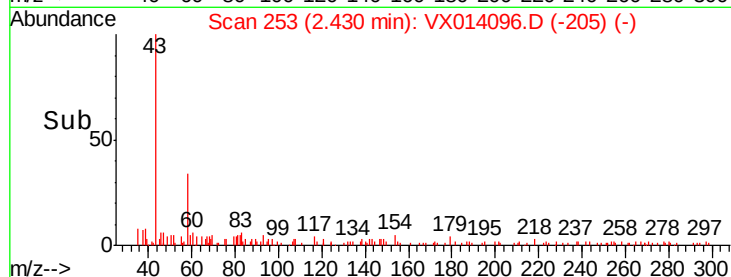
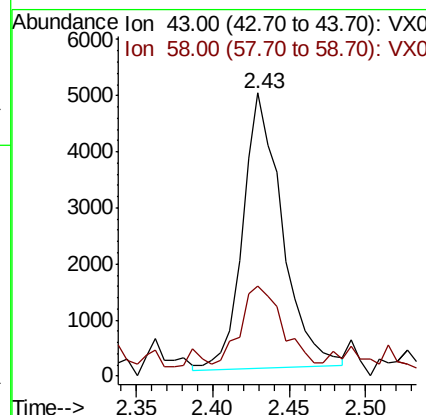
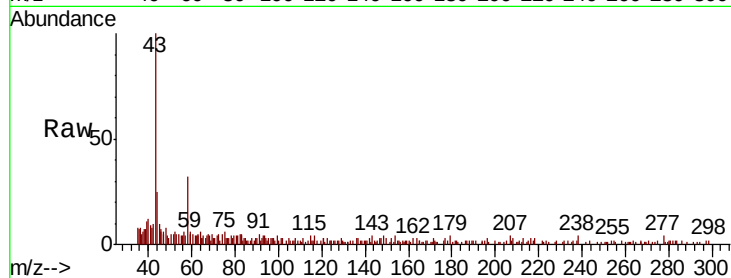




#16
Acetone
Concen: 2.168 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

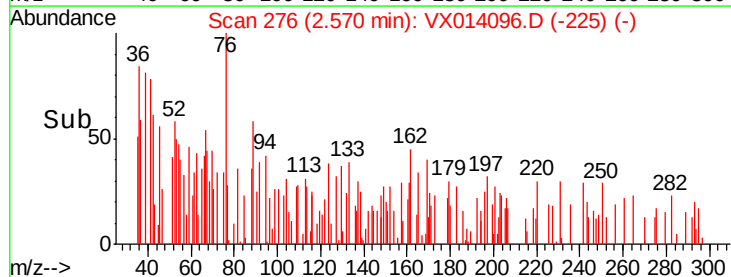
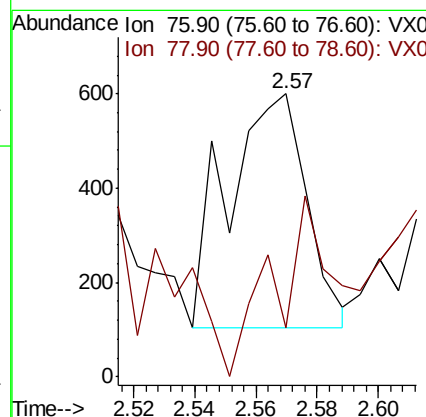
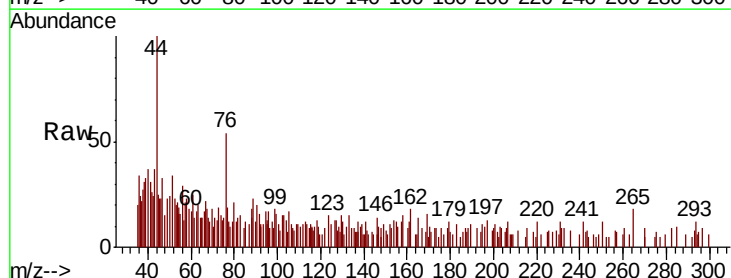
Instrument :
MSVOA_X
ClientSampleId :
TB-01-191217

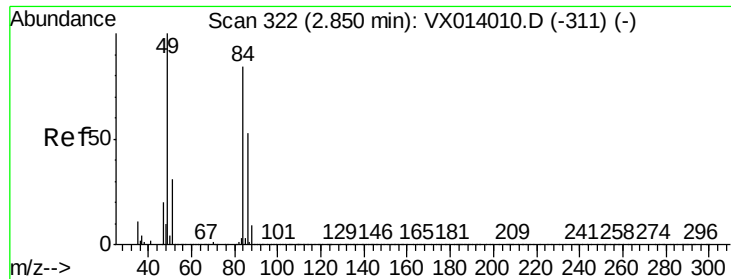
Tot Ion: 43 Resp: 8797
Ion Ratio Lower Upper
43 100
58 27.0 24.9 37.3



#17
Carbon Disulfide
Concen: 0.810 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

Tgt Ion: 76 Resp: 890
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

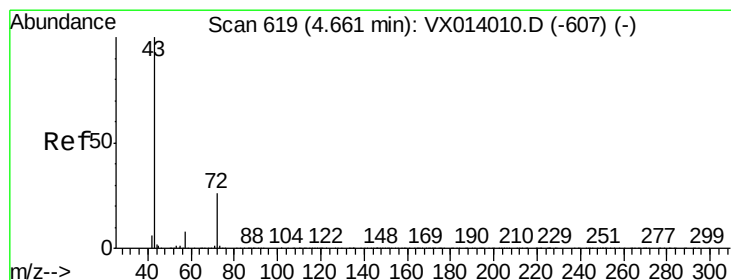
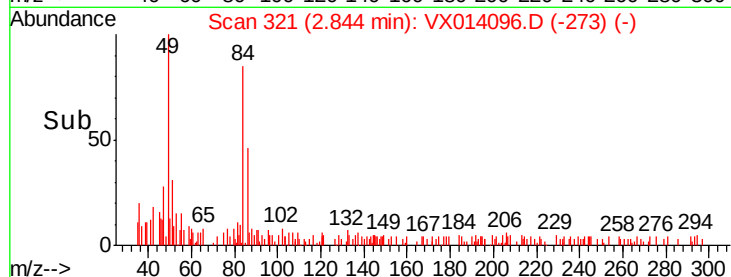
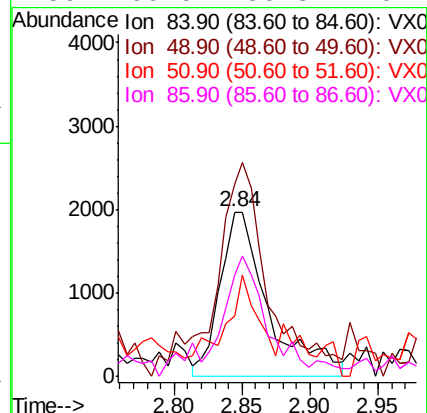
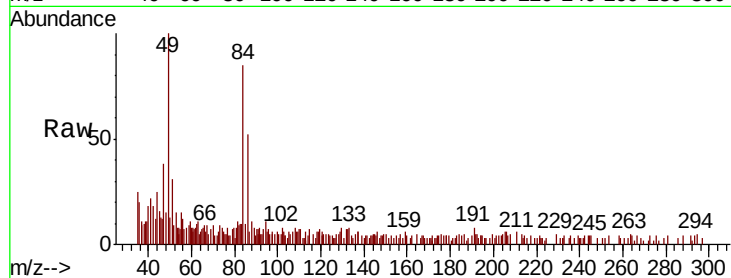




#20
Methvlene Chloride
Concen: 0.765 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

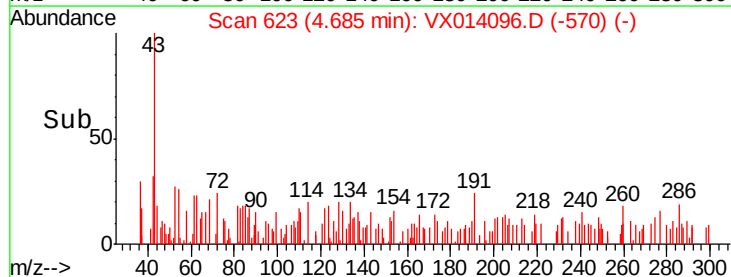
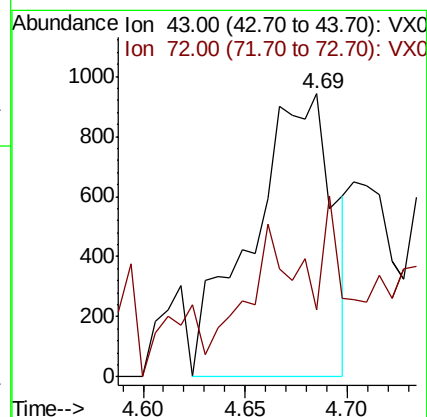
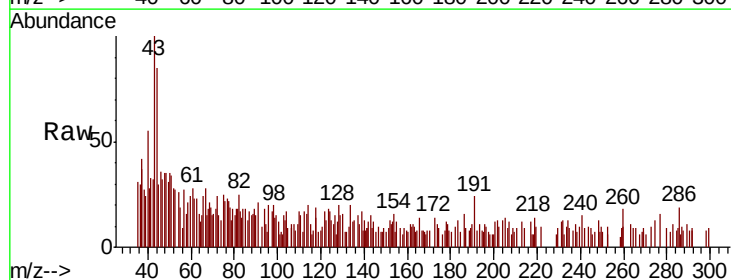
Instrument :
MSVOA_X
ClientSampleId :
TB-01-191217

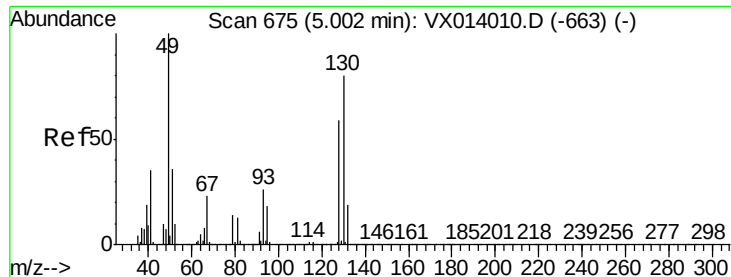
Tot Ion:	84	Resp:	4888
Ion	Ratio	Lower	Upper
84	100		
49	114.3	95.8	143.6
51	39.1	29.8	44.8
86	60.5	50.8	76.2



#25
2-Butanone
Concen: 0.523 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.02 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

Tgt Ion:	43	Resp:	2615
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.0	31.4#





#28

Bromochloromethane

Concen: 0.635 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-191217

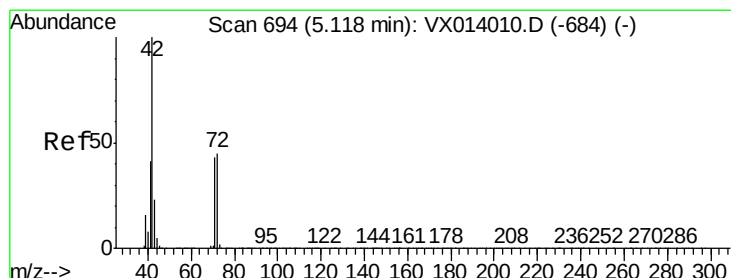
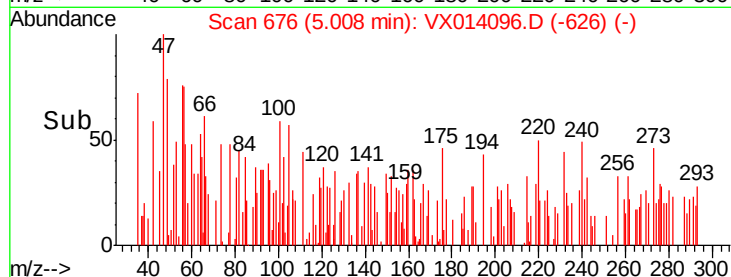
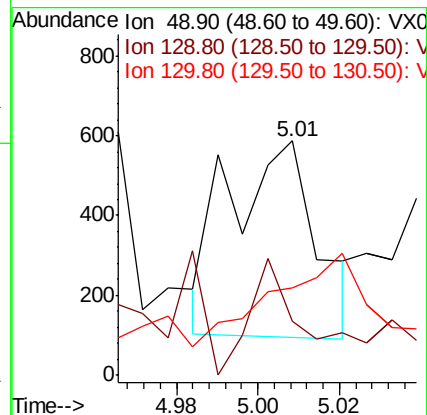
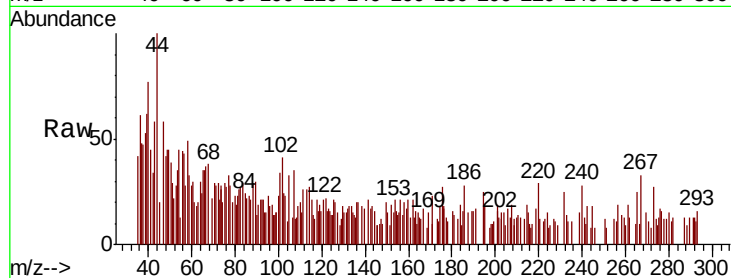
Tot Ion: 49 Resp: 739

Ion Ratio Lower Upper

49 100

129 39.9 0.0 5.0#

130 0.0 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.376 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

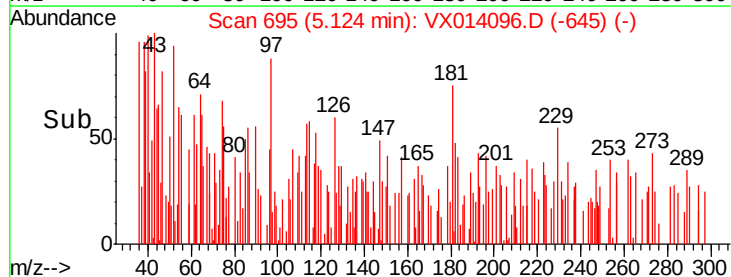
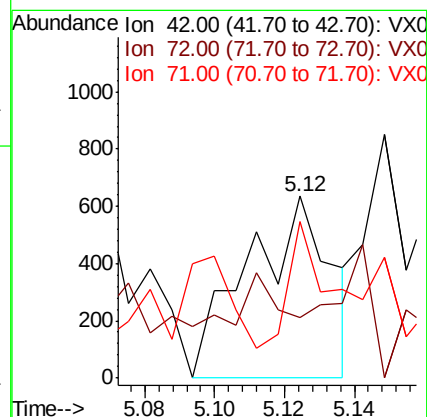
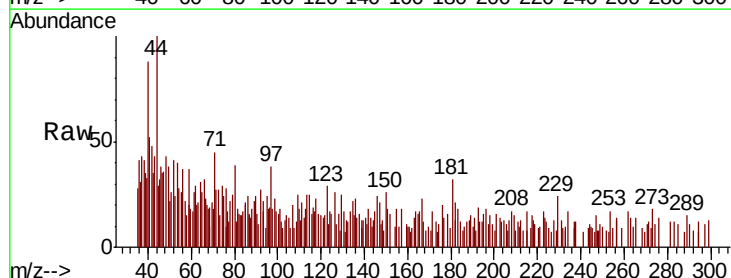
Tgt Ion: 42 Resp: 1052

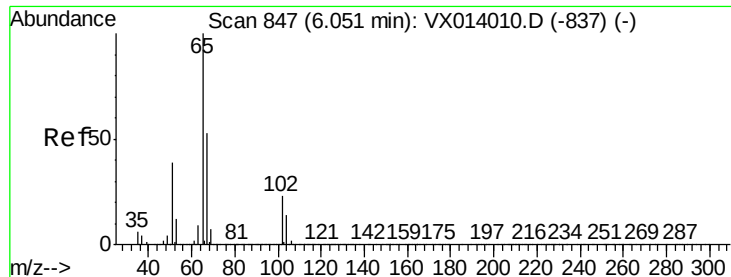
Ion Ratio Lower Upper

42 100

72 32.4 35.8 53.8#

71 58.4 33.6 50.4#

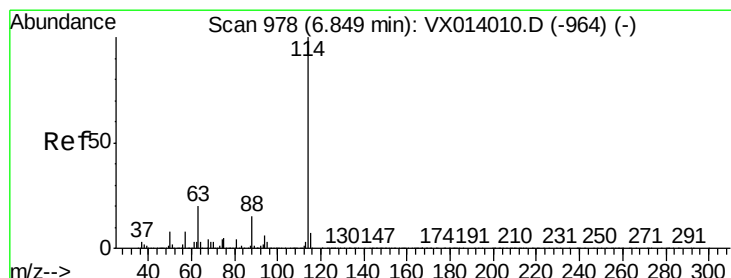
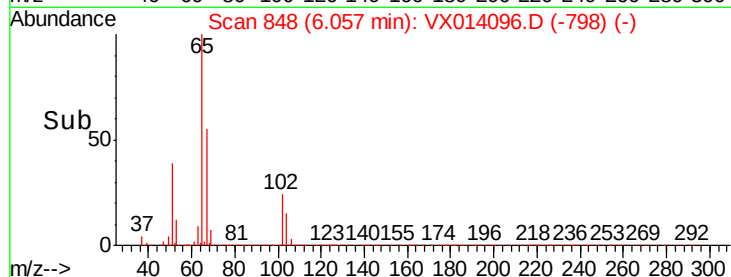
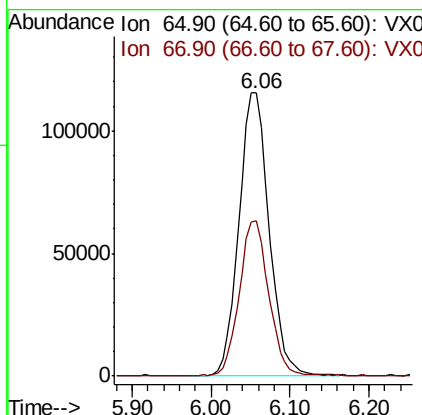
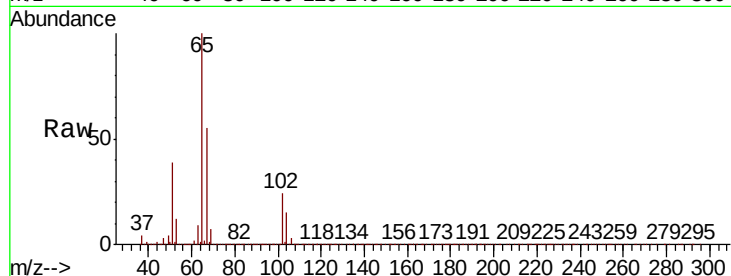




#33
 1,2-Dichloroethane-d4
 Concen: 49.280 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014096.D
 Acq: 18 Dec 2019 15:01

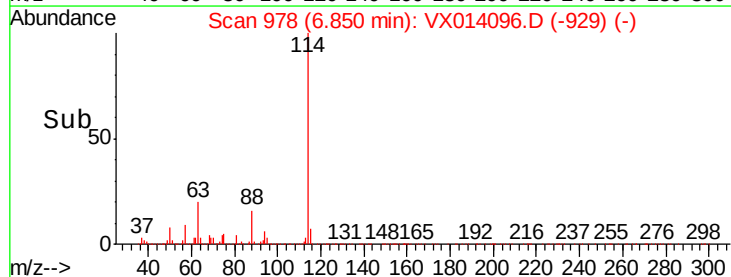
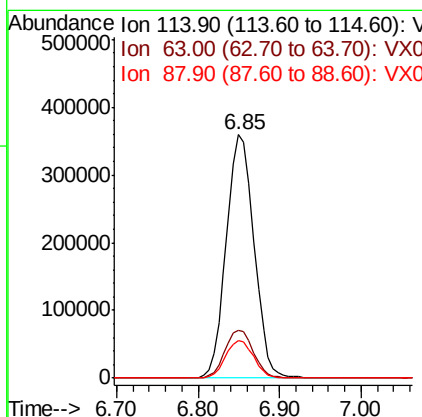
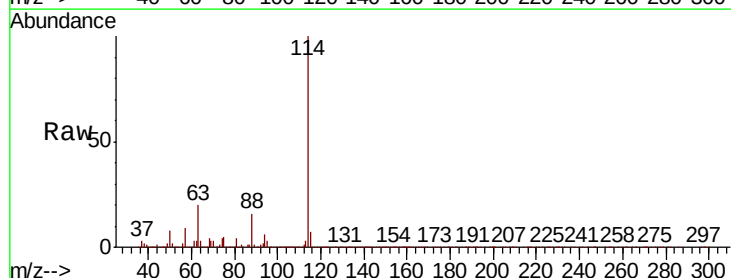
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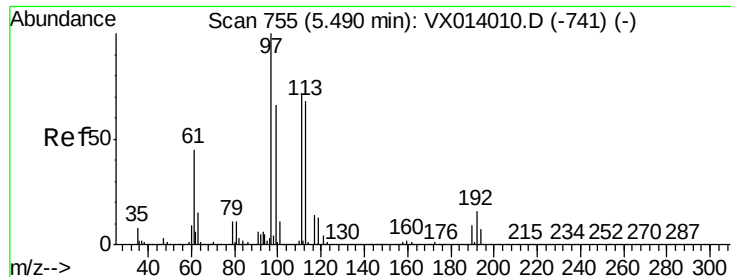
Tot Ion: 65 Resp: 308066
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014096.D
 Acq: 18 Dec 2019 15:01

Tgt Ion: 114 Resp: 843715
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 15.5 0.0 30.4

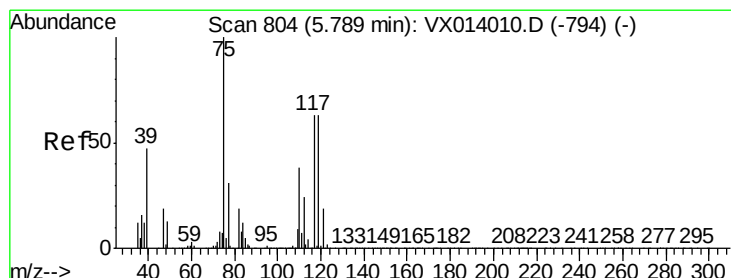
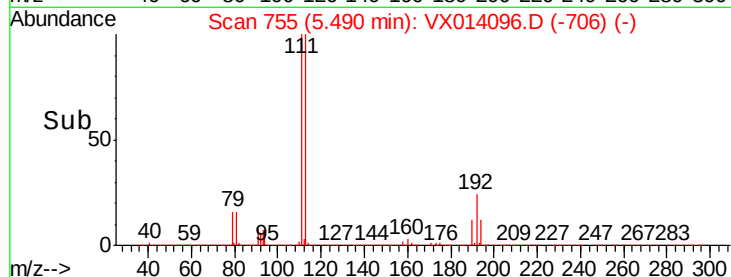
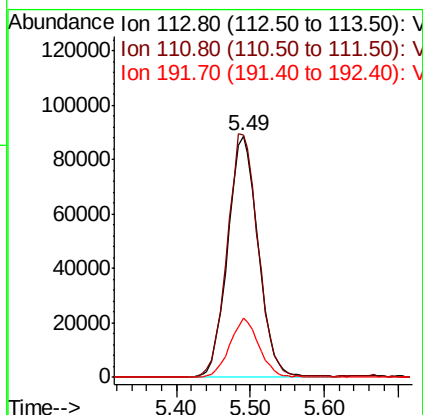
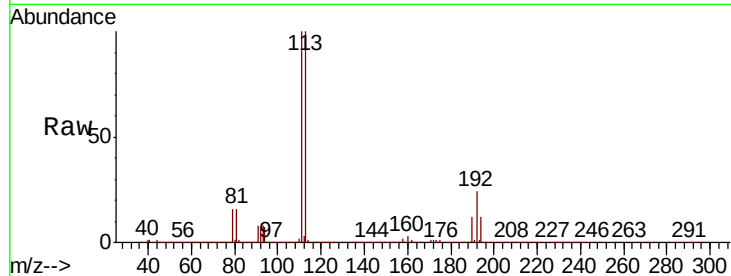




#35
Dibromofluoromethane
Concen: 49.343 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

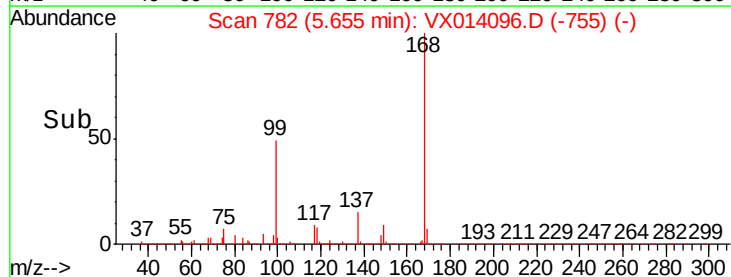
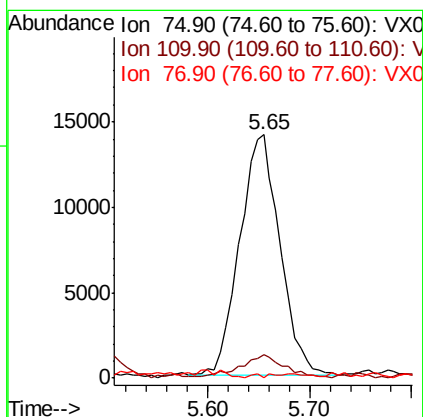
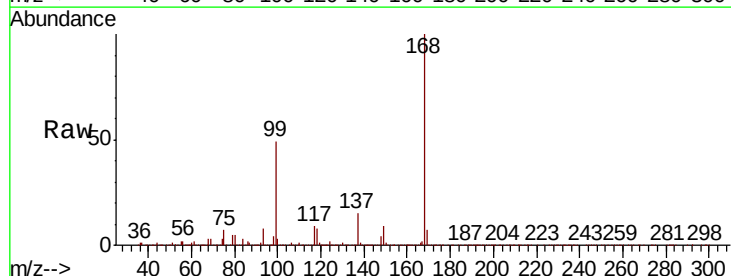
Instrument :
MSVOA_X
ClientSampleId :
TB-01-191217

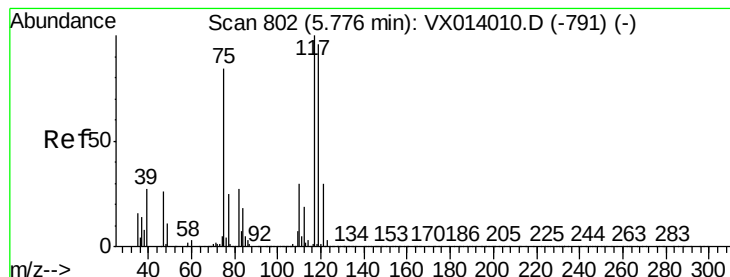
Tot Ion:113 Resp: 253072
Ion Ratio Lower Upper
113 100
111 102.0 82.0 123.0
192 23.9 19.3 28.9



#36
1,1-Dichloropropene
Concen: 4.973 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

Tgt Ion: 75 Resp: 38495
Ion Ratio Lower Upper
75 100
110 11.1 18.3 54.9#
77 0.6 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.890 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-191217

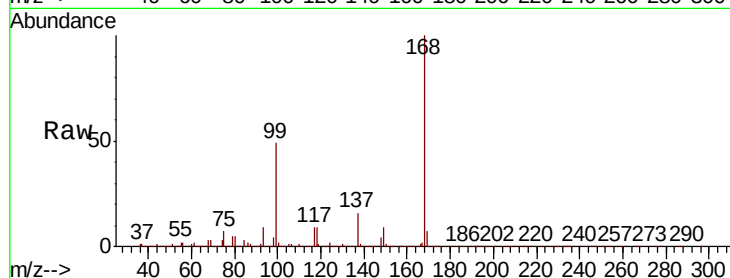
Tot Ion:117 Resp: 48591

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.4#

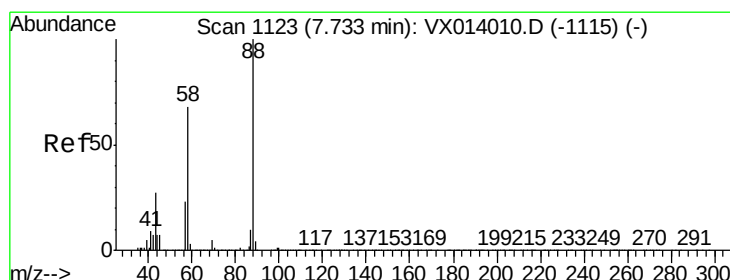
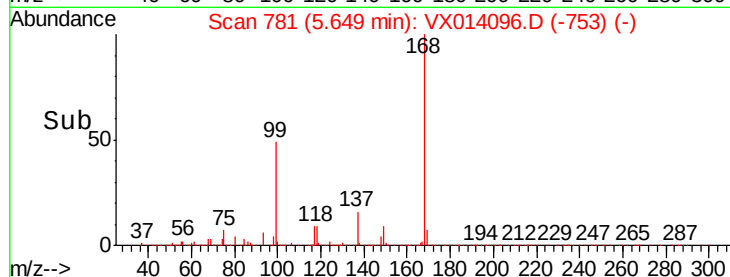
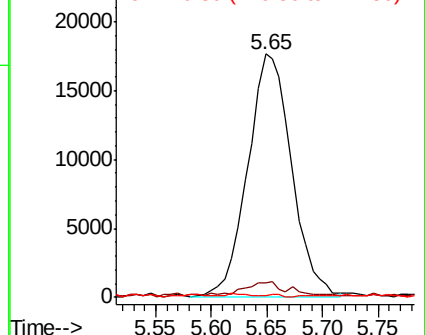
121 0.2 23.6 35.4#



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: 0.653 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

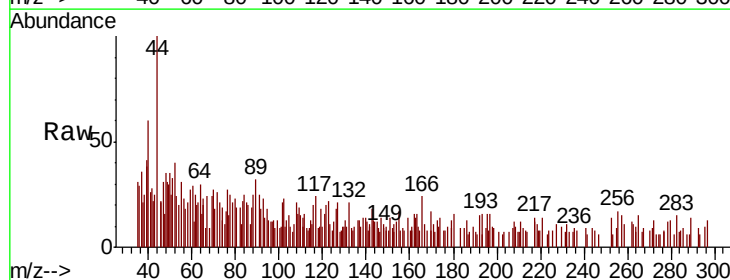
Tgt Ion: 88 Resp: 92

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

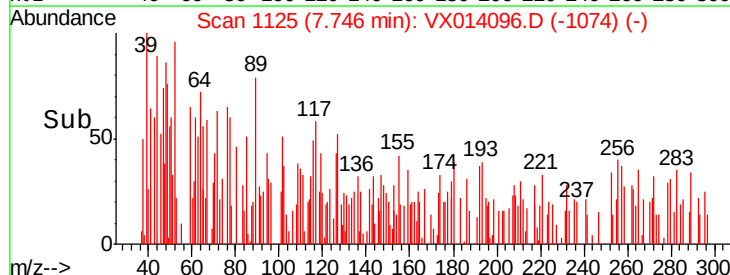
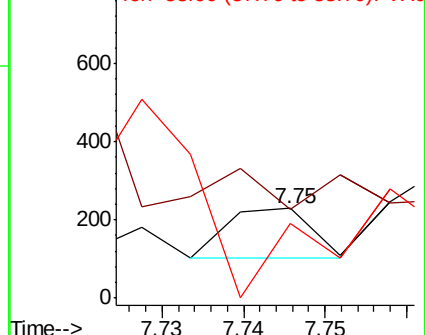
58 0.0 56.8 85.2#

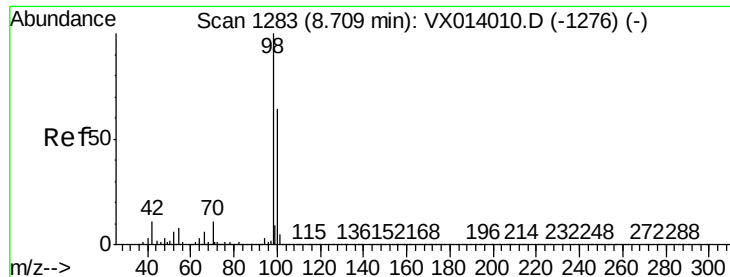


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.480 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

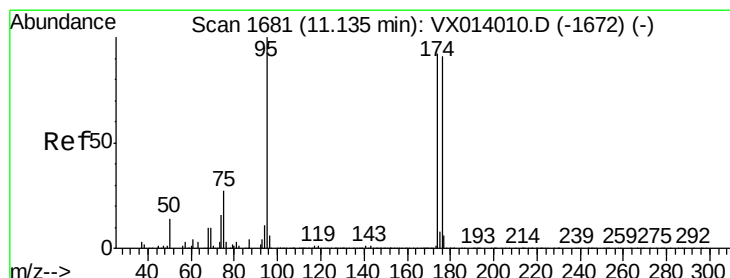
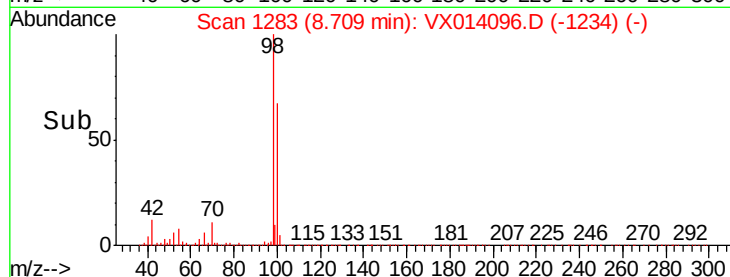
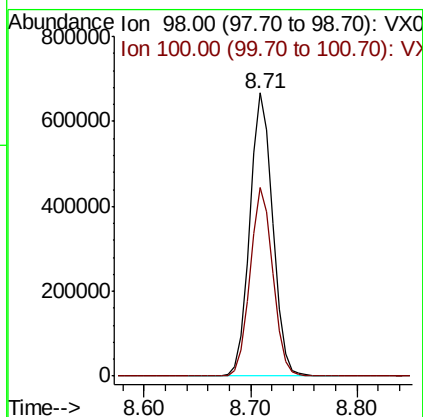
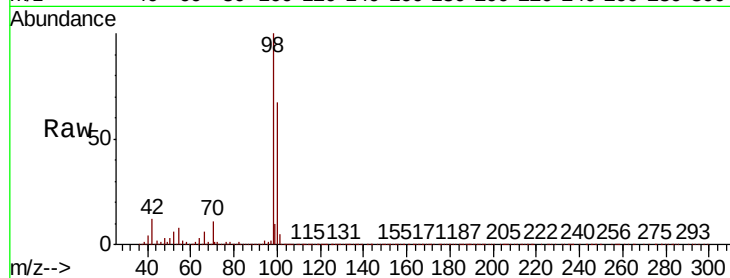
TB-01-191217

Tot Ion: 98 Resp: 1007972

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.317 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

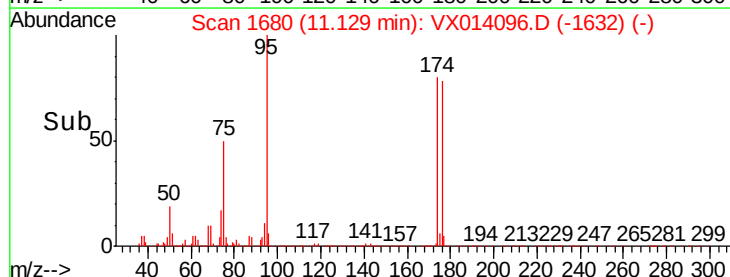
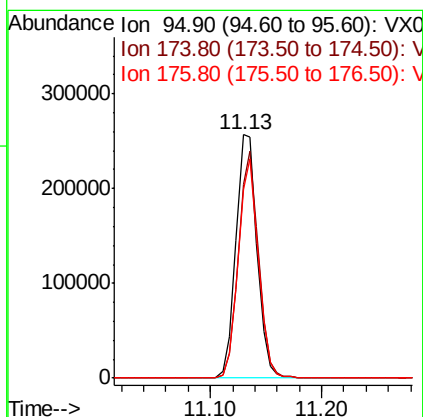
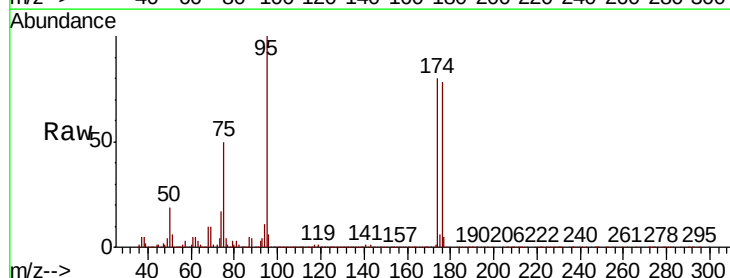
Tgt Ion: 95 Resp: 338072

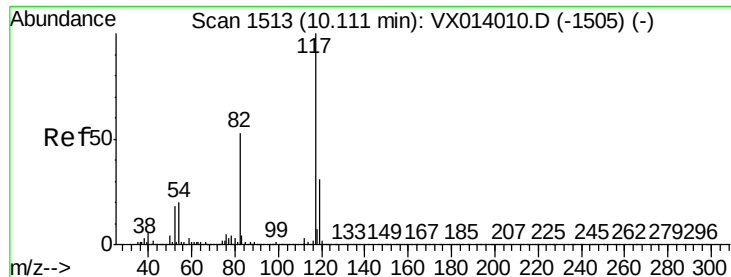
Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.8

176 85.8 0.0 173.0

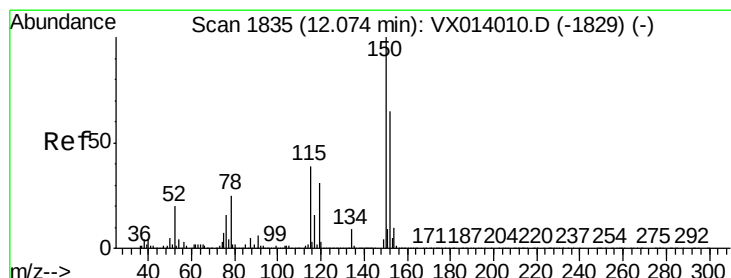
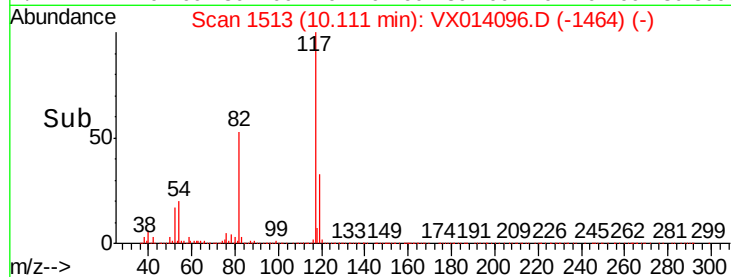
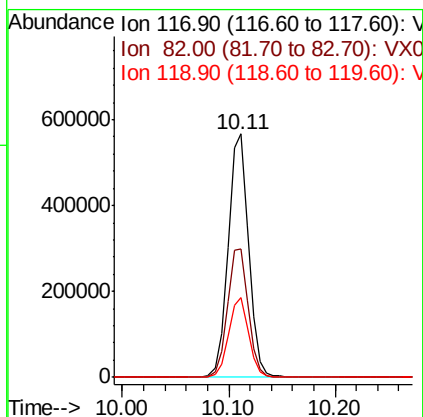
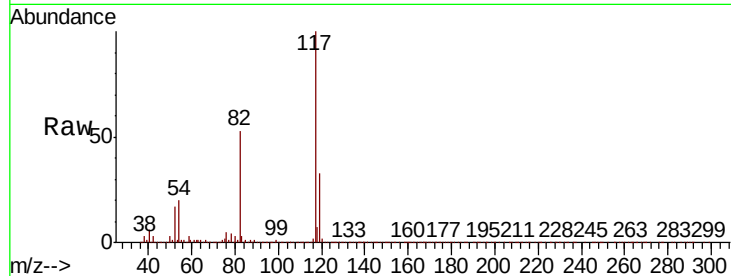




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

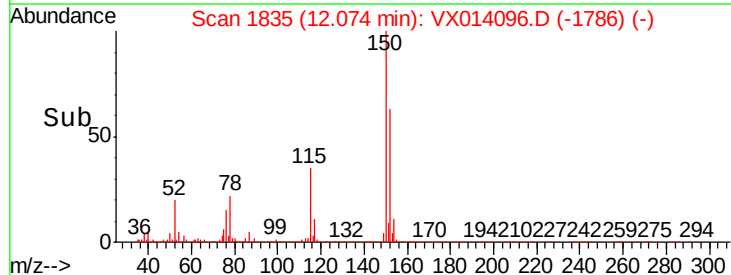
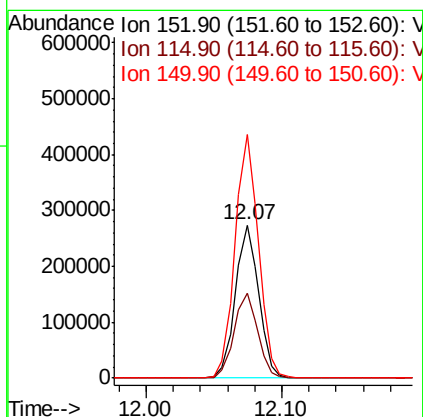
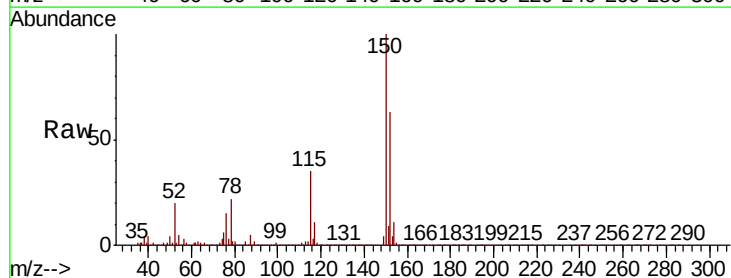
Instrument :
MSVOA_X
ClientSampleId :
TB-01-191217

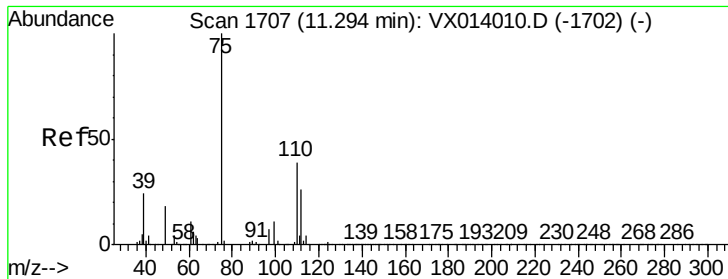
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.4
119	32.9	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014096.D
Acq: 18 Dec 2019 15:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	38.3	114.9
150	159.2	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 23.361 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

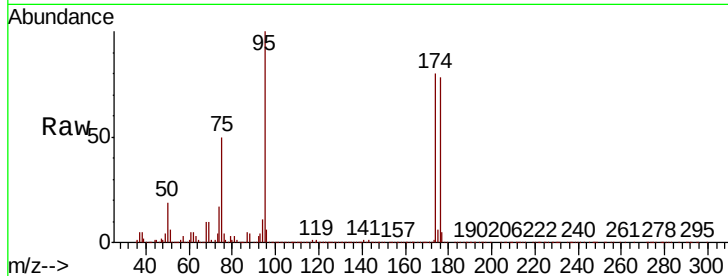
TB-01-191217

Tot Ion: 75 Resp: 165963

Ion Ratio Lower Upper

75 100

77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

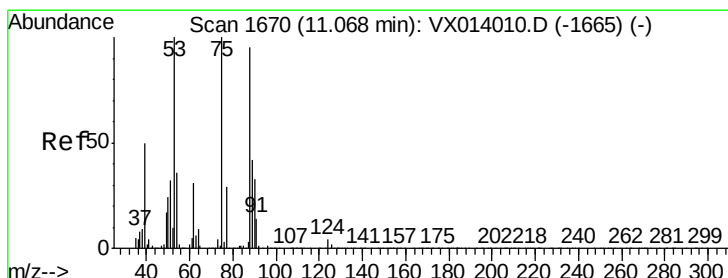
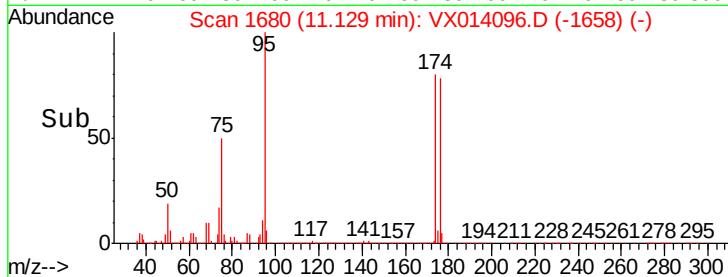
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.938 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

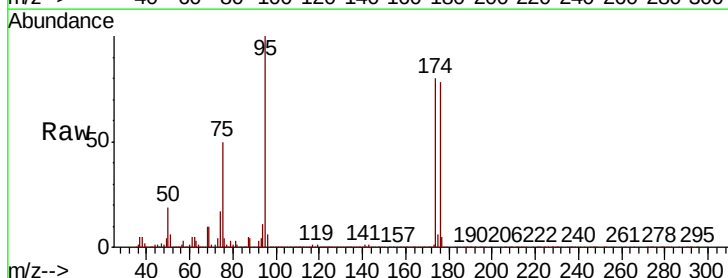
Tgt Ion: 75 Resp: 165963

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

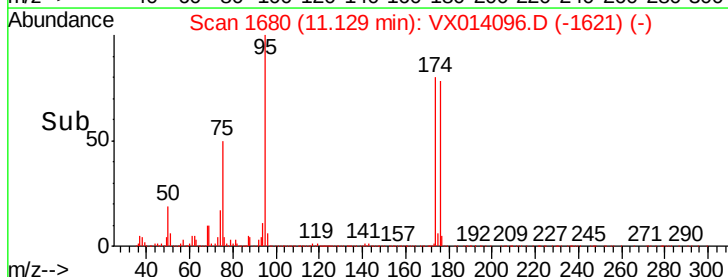
150000

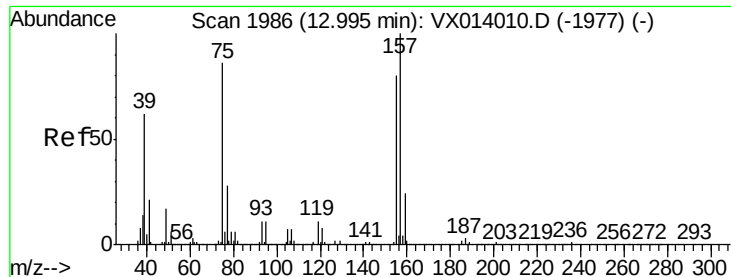
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.279 ug/l

RT: 13.15 min Scan# 2012

Delta R.T. 0.16 min

Lab File: VX014096.D

Acq: 18 Dec 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

TB-01-191217

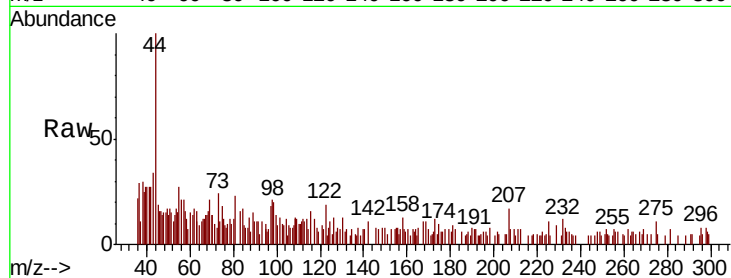
Tot Ion: 75 Resp: 494

Ion Ratio Lower Upper

75 100

155 76.9 46.9 140.6

157 111.1 60.8 182.4



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

