

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014355.D
 Acq On : 30 Dec 2019 15:46
 Operator : JC/SP
 Sample : K6464-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: Dec 31 01:19:26 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	518279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	802996	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	720910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	318328	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	294760	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	5.49	113	240004	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	8.71	98	955898	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	11.14	95	323430	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	

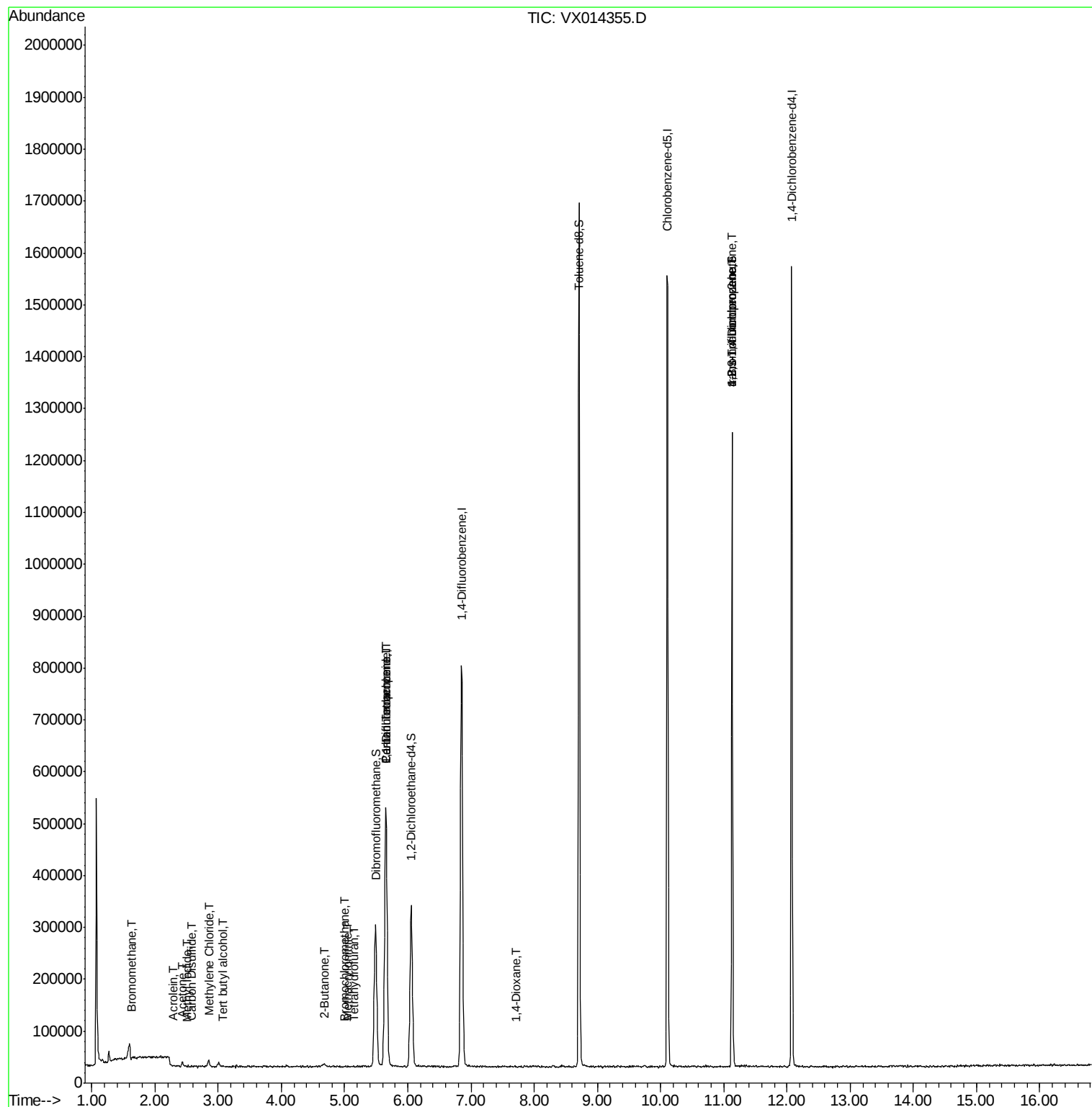
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1598	0.343	ug/l	82
10) Methyl Iodide	2.50	142	646	2.716	ug/l #	30
11) Tert butyl alcohol	3.09	59	447	0.352	ug/l #	19
13) Acrolein	2.28	56	1281	1.763	ug/l #	14
16) Acetone	2.43	43	9120	2.392	ug/l	95
17) Carbon Disulfide	2.57	76	1321	0.844	ug/l #	91
20) Methylene Chloride	2.85	84	7160	1.192	ug/l #	94
25) 2-Butanone	4.69	43	1398	0.297	ug/l #	85
28) Bromochloromethane	5.00	49	157	0.495	ug/l #	1
29) Tetrahydrofuran	5.14	42	599	0.228	ug/l	95
36) 1,1-Dichloropropene	5.65	75	37734	5.121	ug/l #	50
38) Carbon Tetrachloride	5.65	117	46148	6.875	ug/l #	17
41) Methacrylonitrile	5.04	41	998	0.221	ug/l #	61
49) 1,4-Dioxane	7.73	88	464	3.458	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	158745	22.970	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	158745	64.835	ug/l #	12

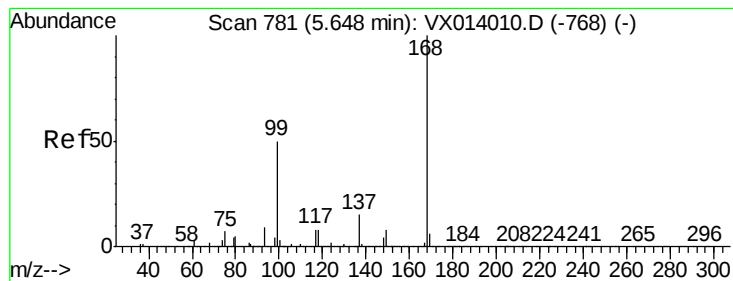
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

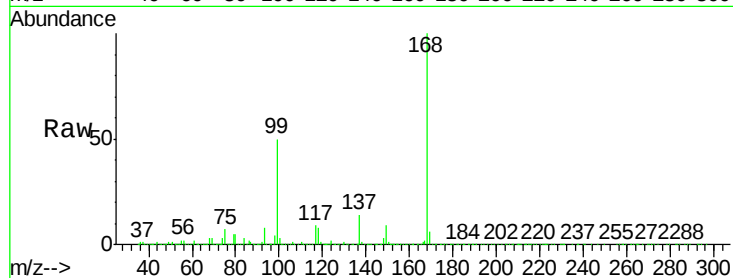
TB

Tot Ion:168 Resp: 518279

Ion Ratio Lower Upper

168 100

99 50.3 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

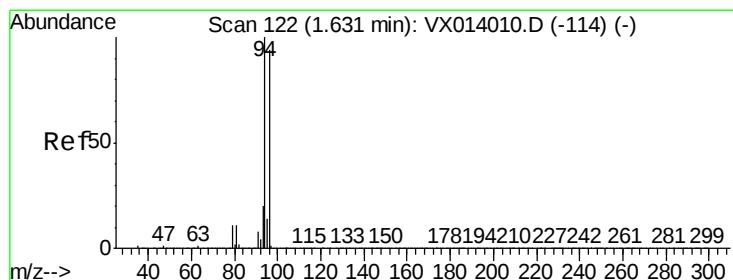
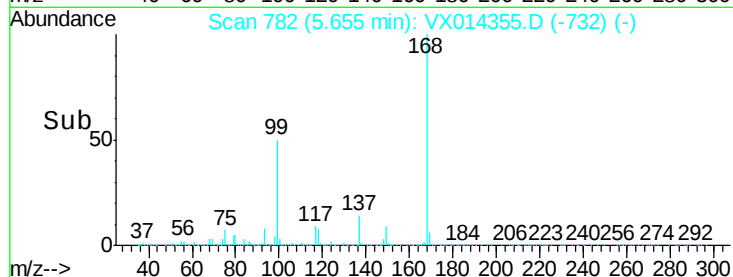
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.343 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014355.D

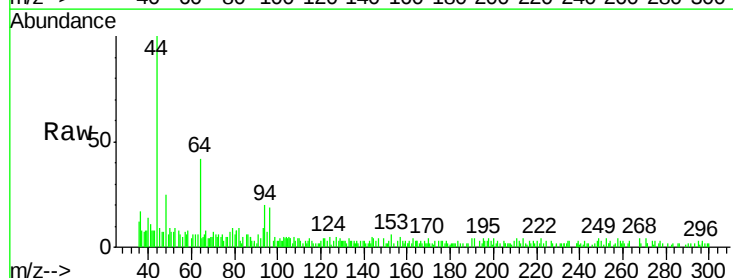
Acq: 30 Dec 2019 15:46

Tgt Ion: 94 Resp: 1598

Ion Ratio Lower Upper

94 100

96 111.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

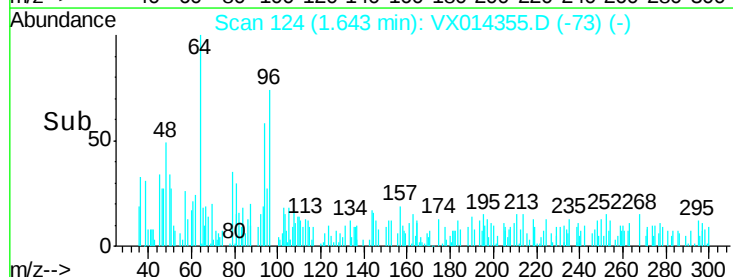
400

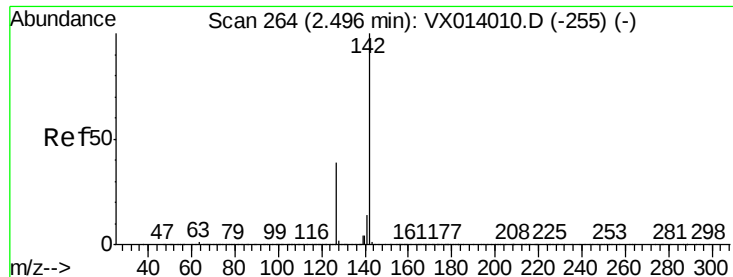
200

0

Time-->

1.60 1.65 1.70

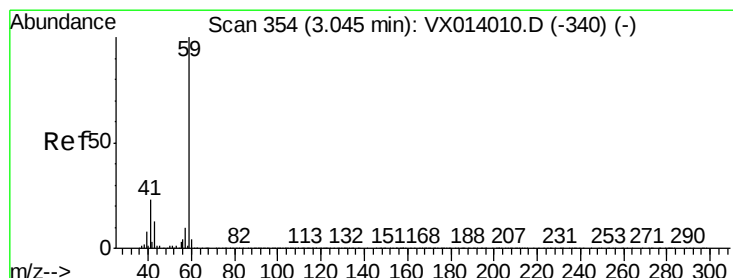
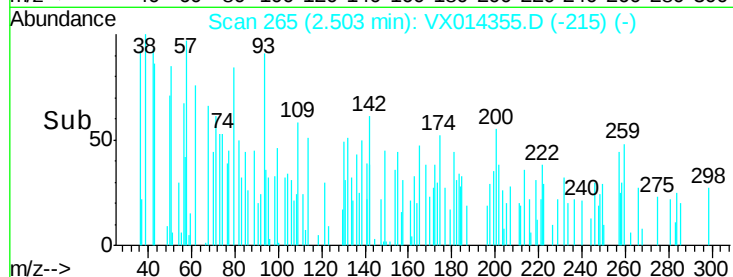
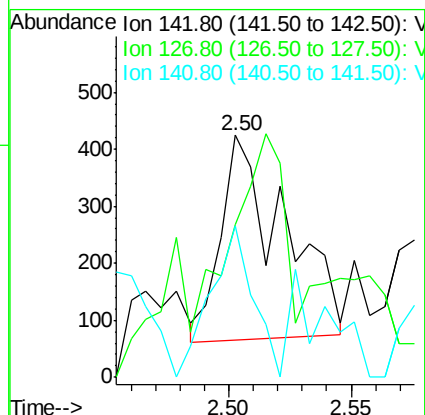
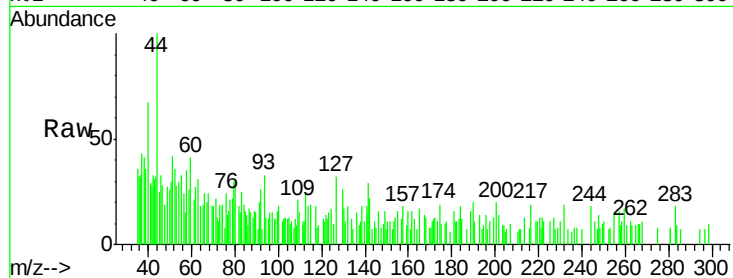




#10
Methyl Iodide
Concen: 2.716 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

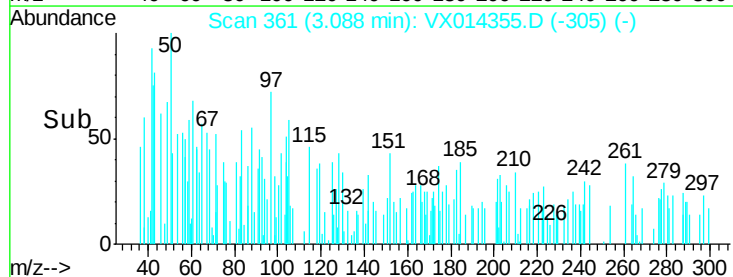
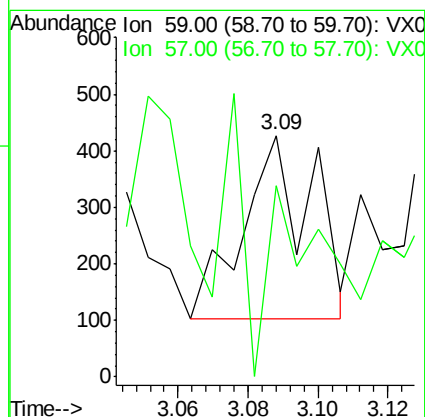
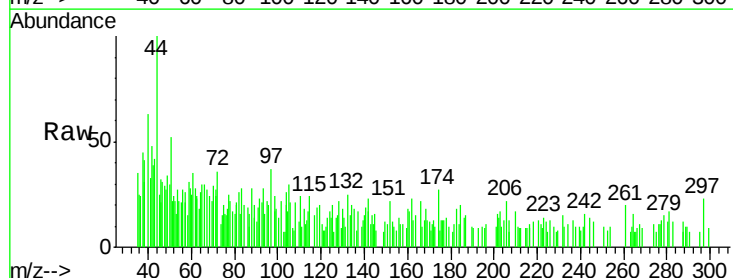
Instrument :
MSVOA_X
ClientSampled :
TB

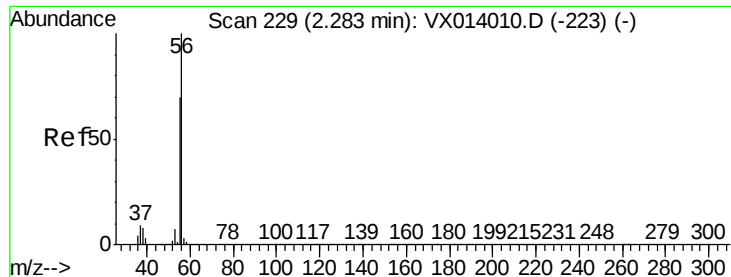
Tot Ion:142 Resp: 646
Ion Ratio Lower Upper
142 100
127 0.0 31.6 47.4#
141 49.2 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.352 ug/l
RT: 3.09 min Scan# 361
Delta R.T. 0.04 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

Tgt Ion: 59 Resp: 447
Ion Ratio Lower Upper
59 100
57 40.9 8.4 12.6#

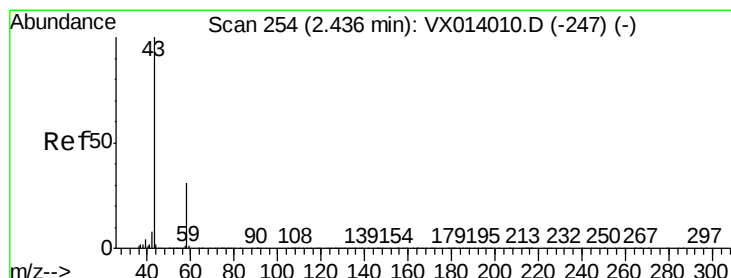
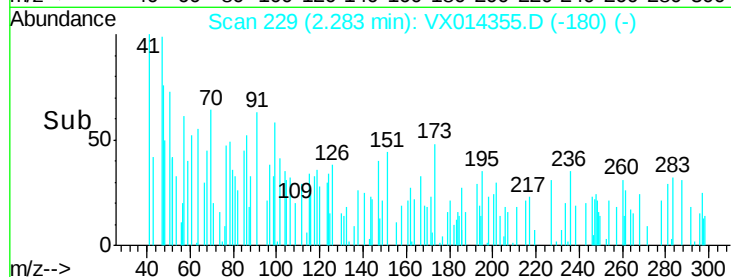
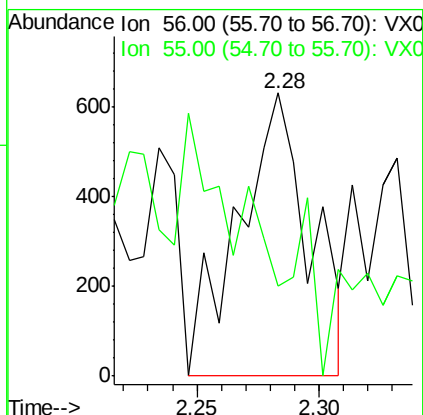
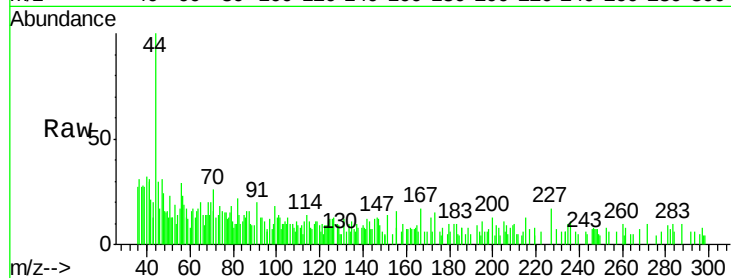




#13
Acrolein
Concen: 1.763 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

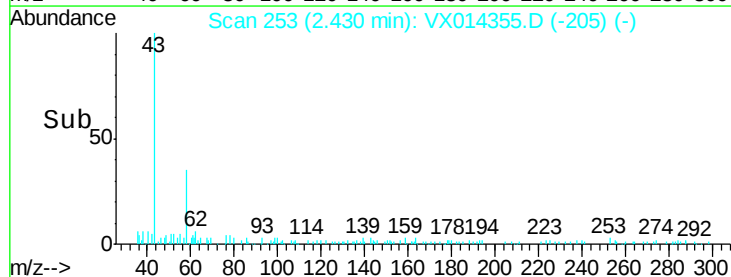
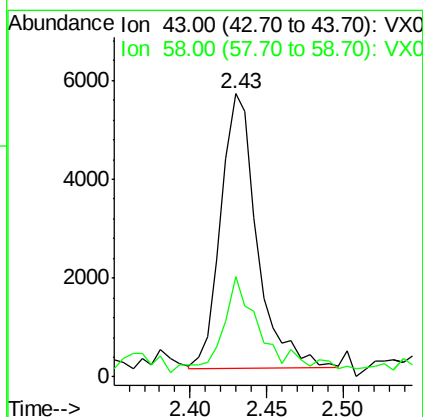
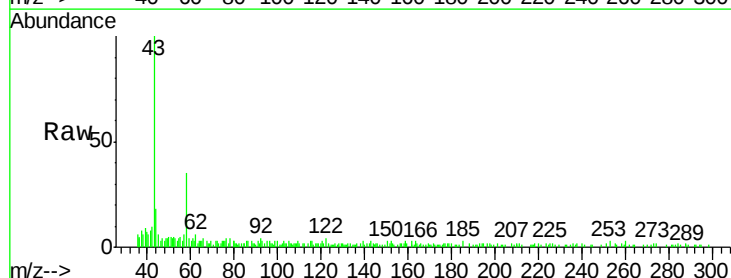
Instrument :
MSVOA_X
ClientSampled :
TB

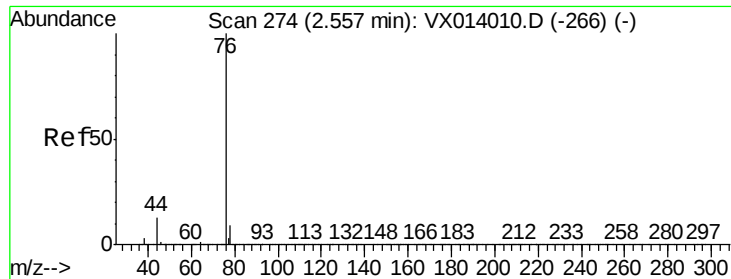
Tot Ion: 56 Resp: 1281
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 2.392 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

Tgt Ion: 43 Resp: 9120
Ion Ratio Lower Upper
43 100
58 33.9 24.9 37.3

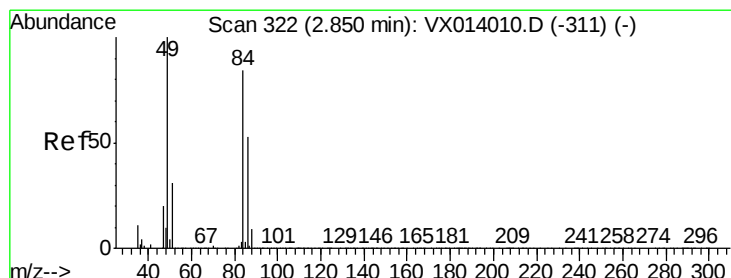
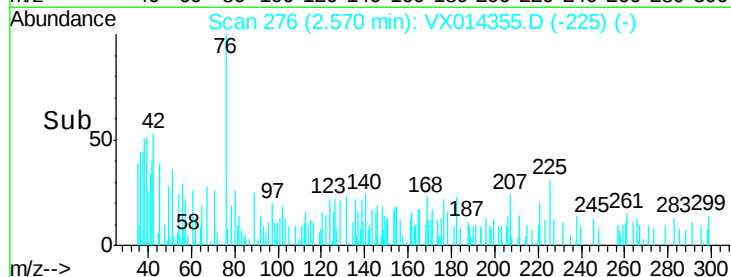
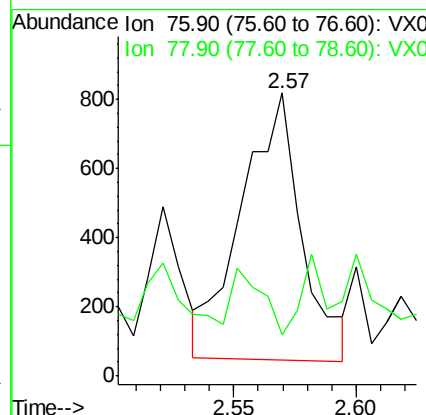
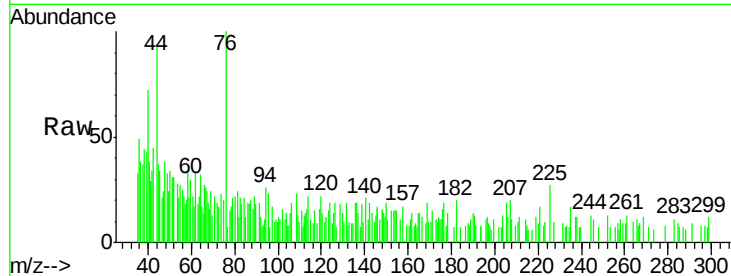




#17
Carbon Disulfide
Concen: 0.844 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

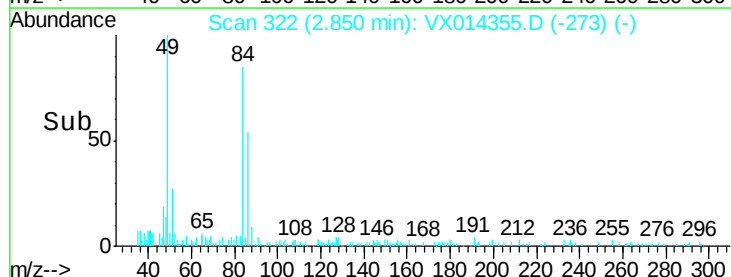
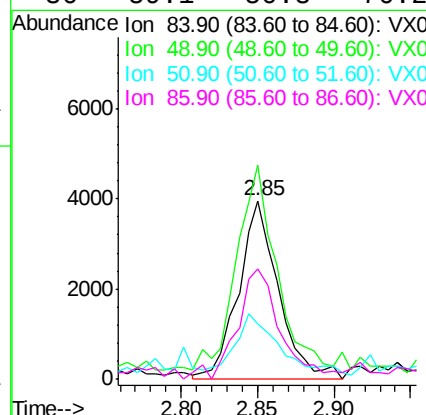
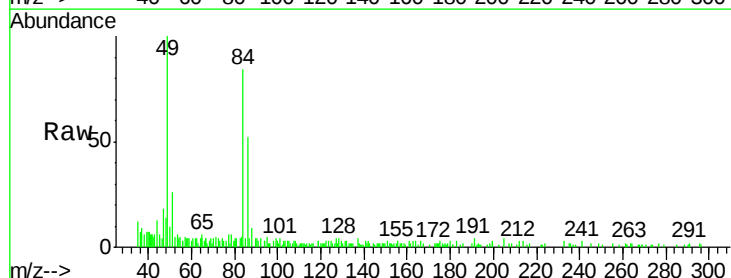
Instrument :
MSVOA_X
ClientSampled :
TB

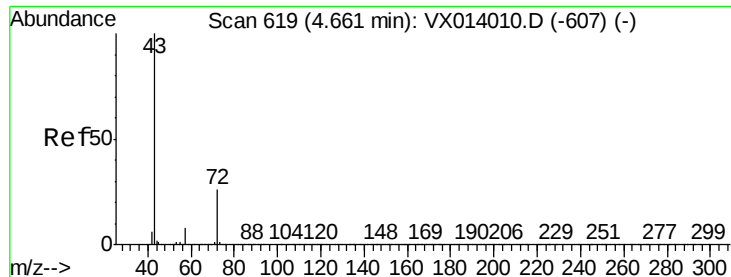
Tot Ion: 76 Resp: 1321
Ion Ratio Lower Upper
76 100
78 12.3 7.2 10.8#



#20
Methylene Chloride
Concen: 1.192 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

Tgt Ion: 84 Resp: 7160
Ion Ratio Lower Upper
84 100
49 116.7 95.8 143.6
51 27.6 29.8 44.8#
86 59.1 50.8 76.2





#25

2-Butanone

Concen: 0.297 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

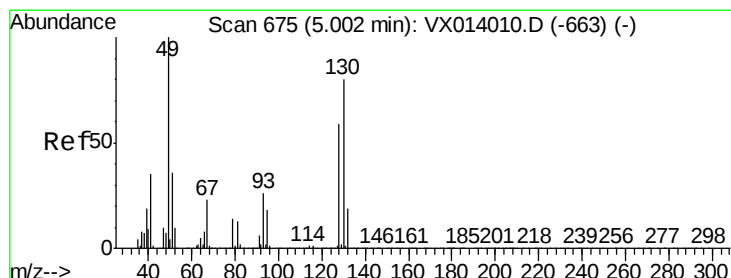
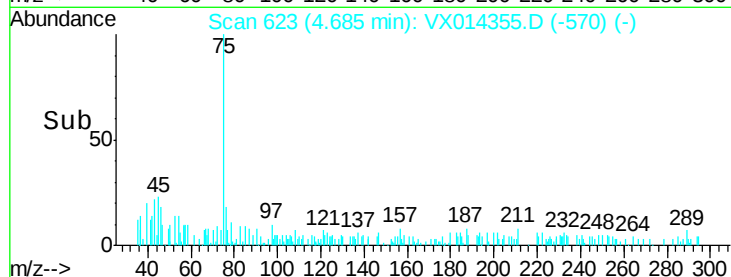
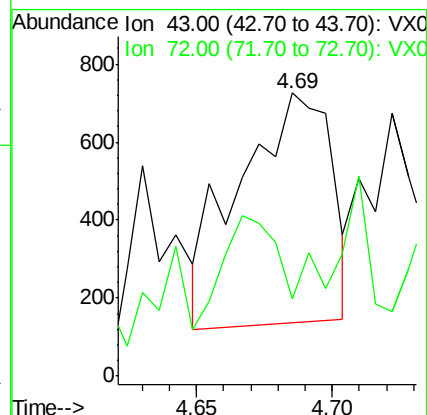
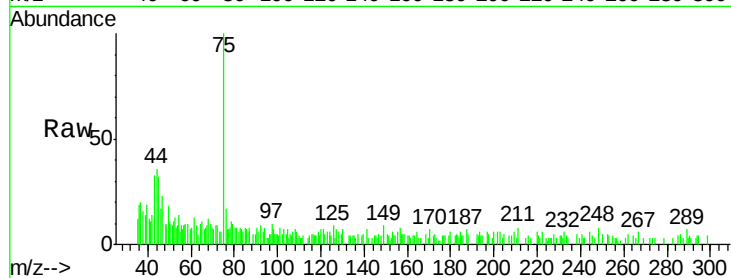
TB

Tot Ion: 43 Resp: 1398

Ion Ratio Lower Upper

43 100

72 18.5 21.0 31.4#



#28

Bromochloromethane

Concen: 0.495 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

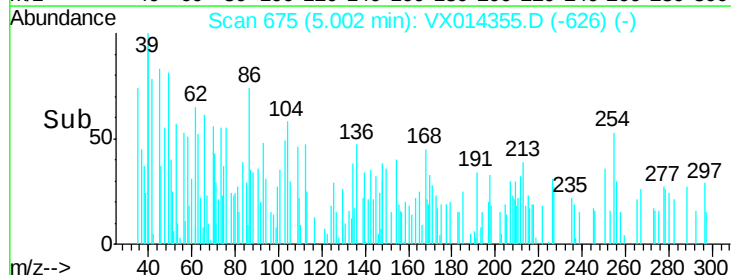
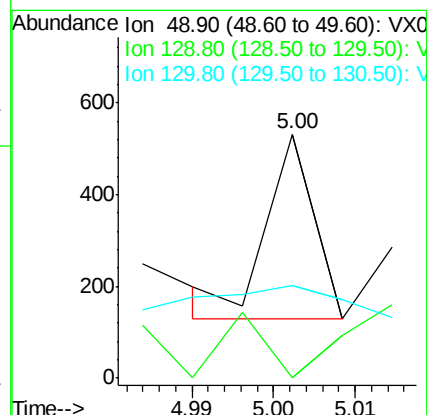
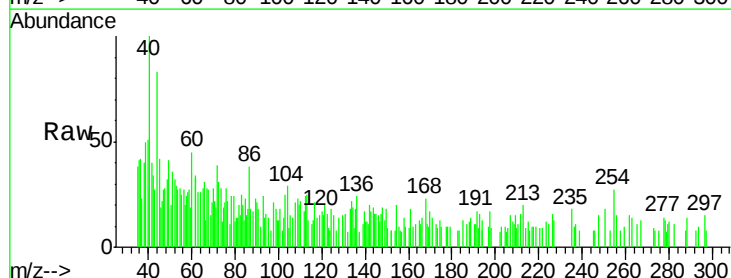
Tgt Ion: 49 Resp: 157

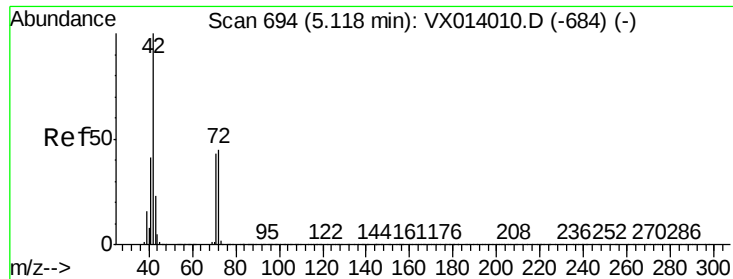
Ion Ratio Lower Upper

49 100

129 33.8 0.0 5.0#

130 168.8 64.6 97.0#

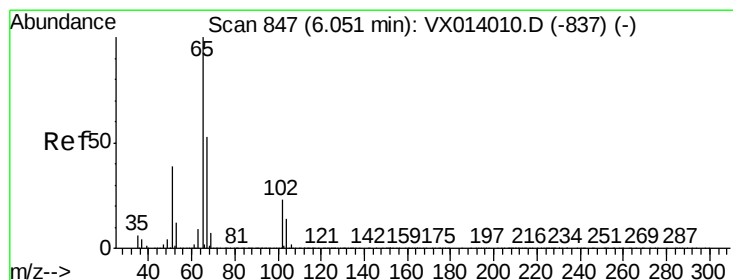
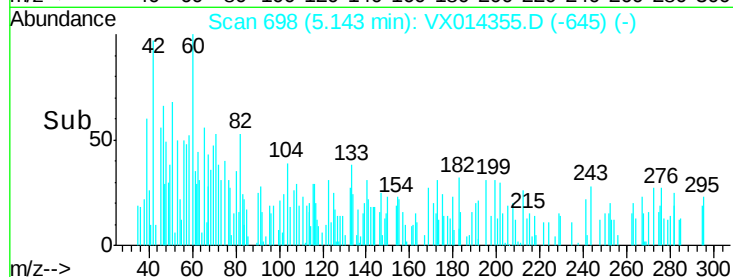
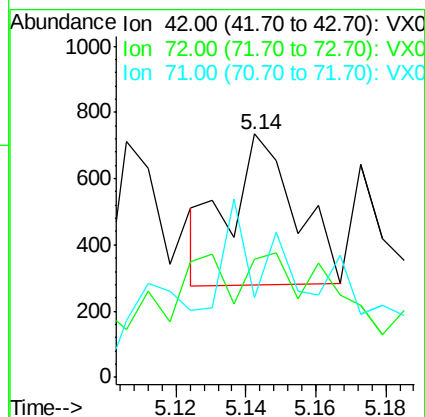
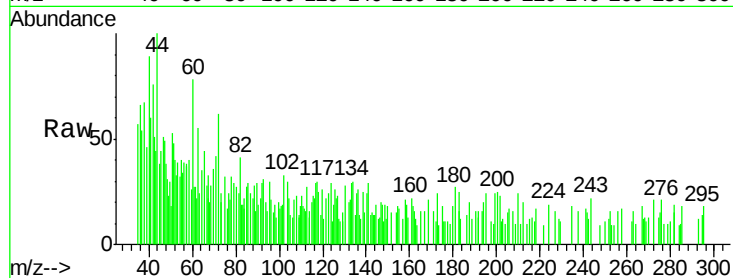




#29
Tetrahydrofuran
Concen: 0.228 ug/l
RT: 5.14 min Scan# 698
Delta R.T. 0.02 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

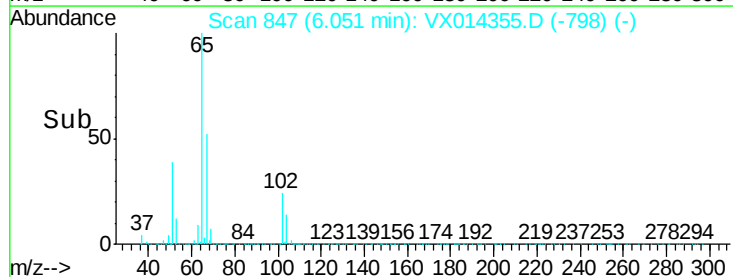
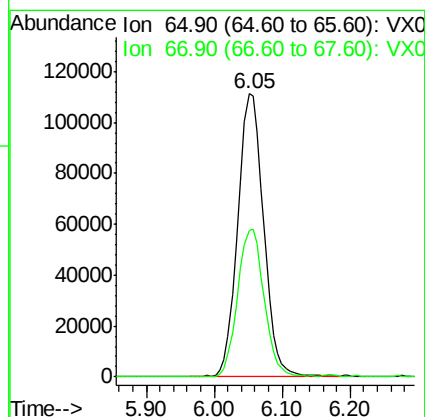
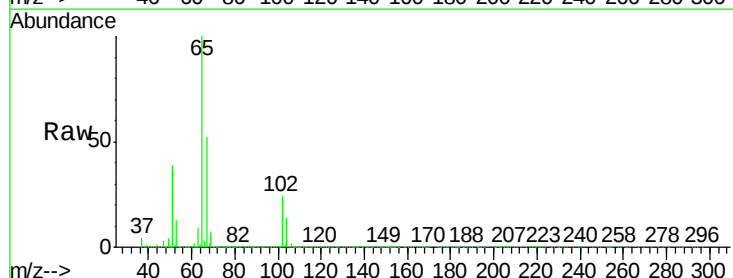
Instrument :
MSVOA_X
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TB

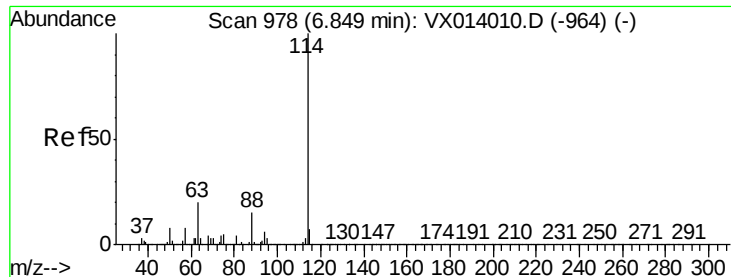
Tot Ion: 42 Resp: 599
Ion Ratio Lower Upper
42 100
72 39.6 35.8 53.8
71 43.4 33.6 50.4



#33
1,2-Dichloroethane-d4
Concen: 50.181 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

Tgt Ion: 65 Resp: 294760
Ion Ratio Lower Upper
65 100
67 52.7 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: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

TB

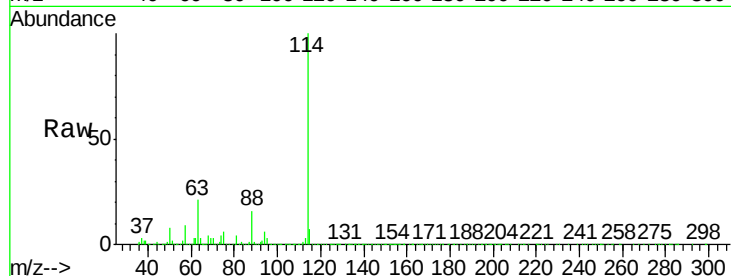
Tot Ion:114 Resp: 802996

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

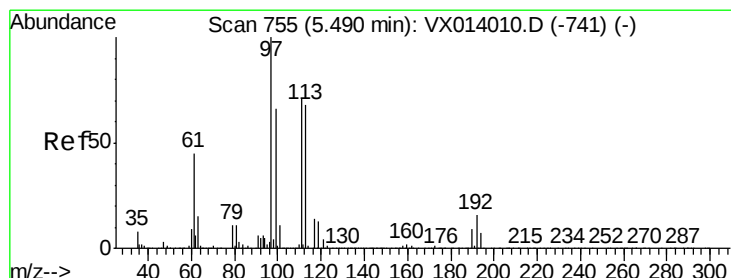
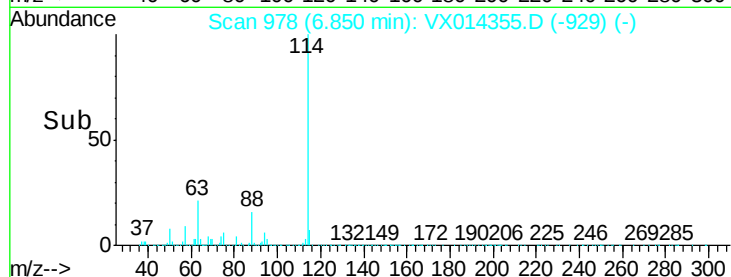
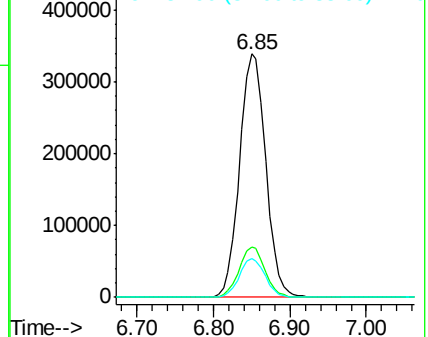
88 15.8 0.0 30.4



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: 49.168 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

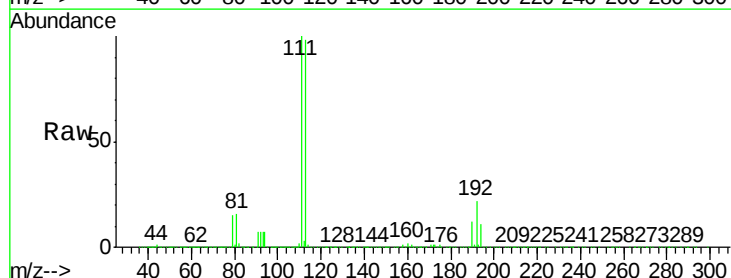
Tgt Ion:113 Resp: 240004

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

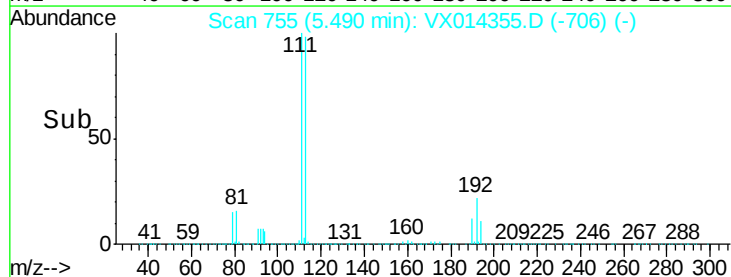
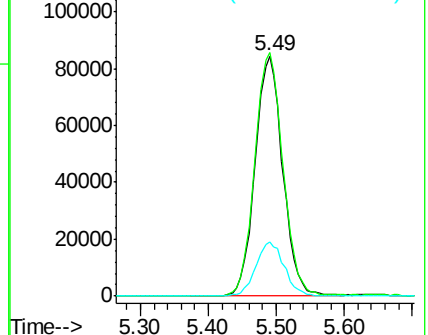
192 23.2 19.3 28.9

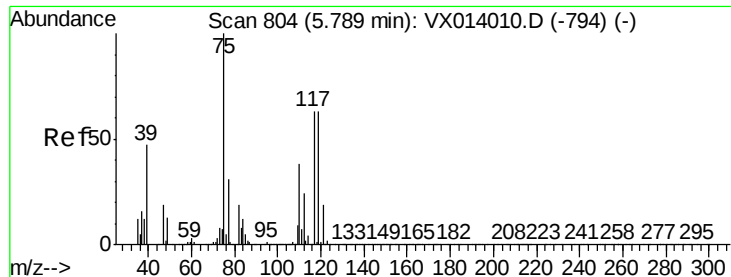


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

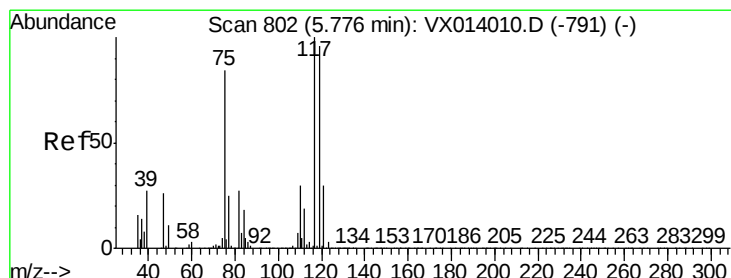
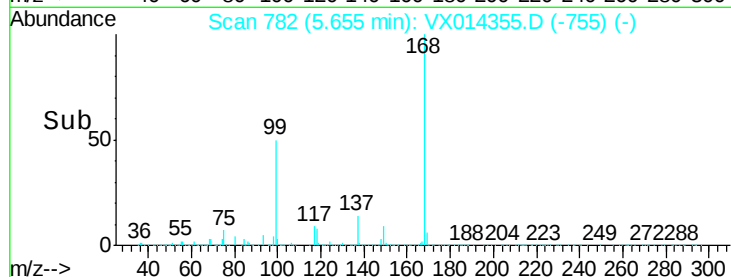
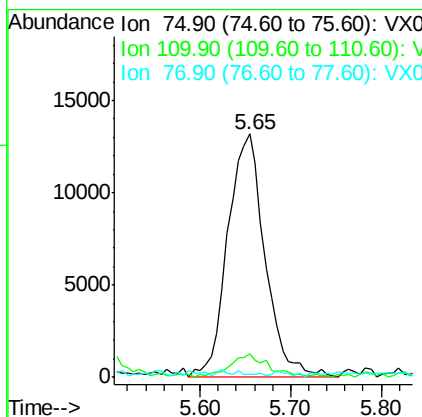
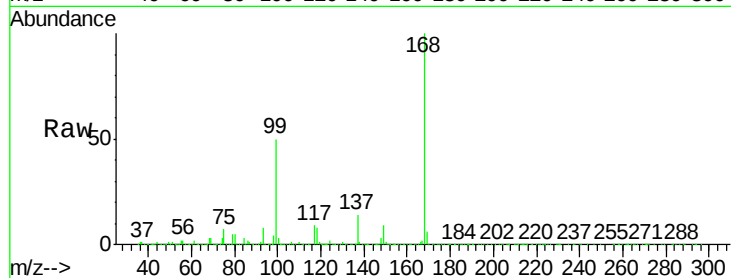




#36
 1,1-Dichloropropene
 Concen: 5.121 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014355.D
 Acq: 30 Dec 2019 15:46

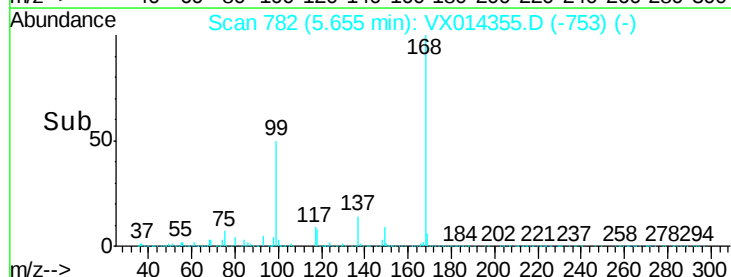
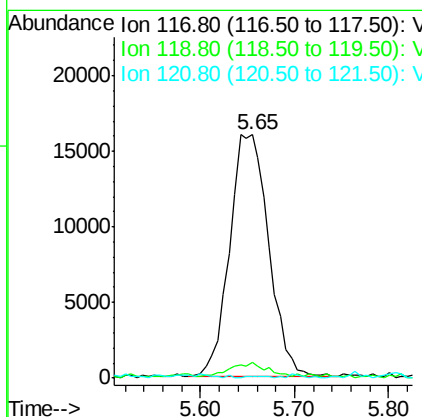
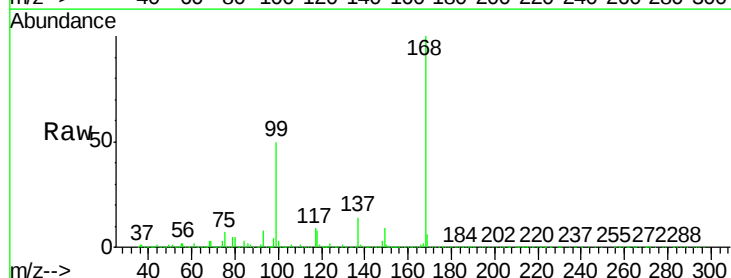
Instrument :
 MSVOA_X
 ClientSampleId :
 TB

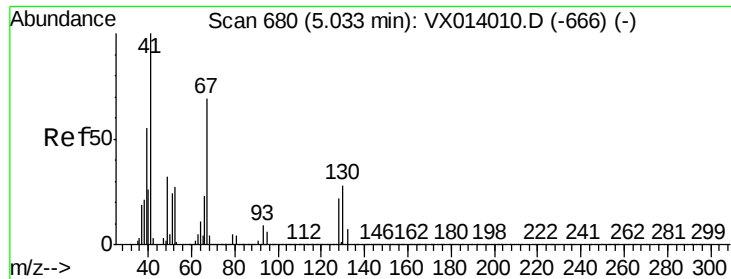
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.875 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014355.D
 Acq: 30 Dec 2019 15:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.2	114.4#
121	0.5	23.6	35.4#





#41

Methacrylonitrile

Concen: 0.221 ug/l

RT: 5.04 min Scan# 682

Delta R.T. 0.01 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

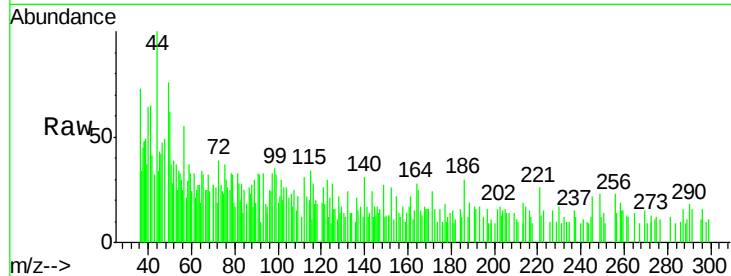
MSVOA_X

ClientSampled :

TB

Tot Ion: 41 Resp: 998

Ion	Ratio	Lower	Upper
41	100		
39	26.2	44.5	66.7#
67	37.3	57.4	86.0#
52	11.7	23.0	34.4#

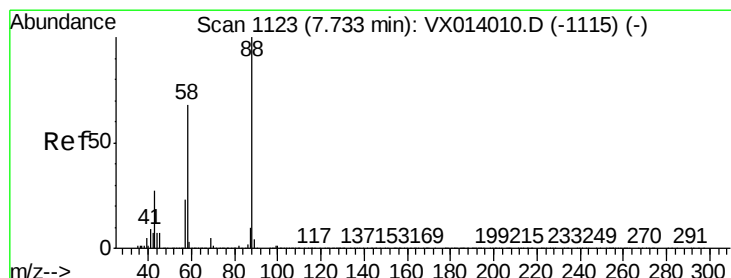
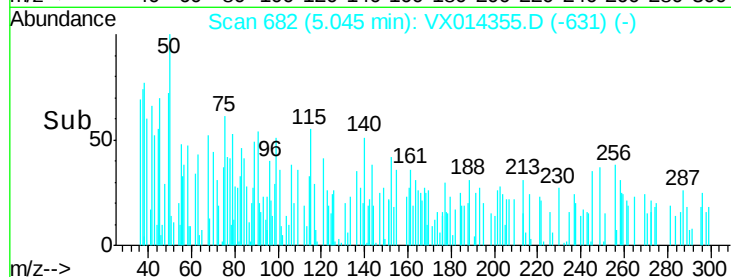
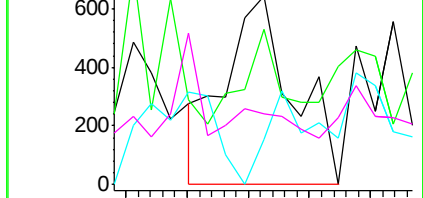


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#49

1,4-Dioxane

Concen: 3.458 ug/l

RT: 7.73 min Scan# 1122

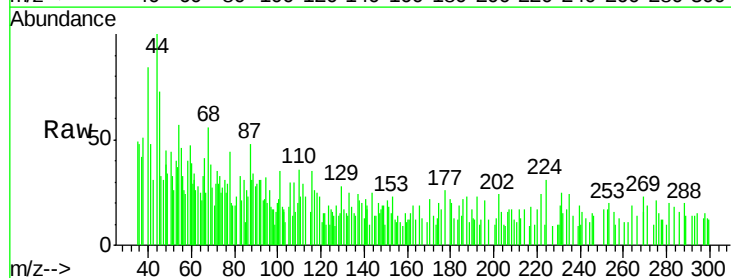
Delta R.T. -0.01 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Tgt Ion: 88 Resp: 464

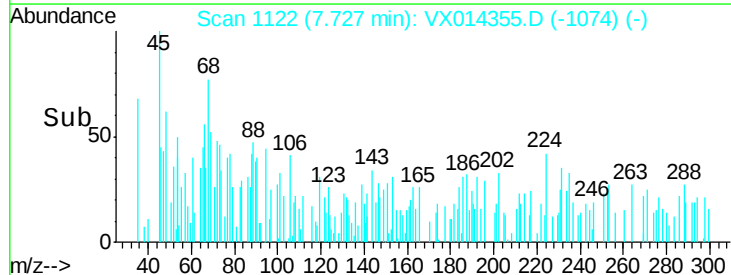
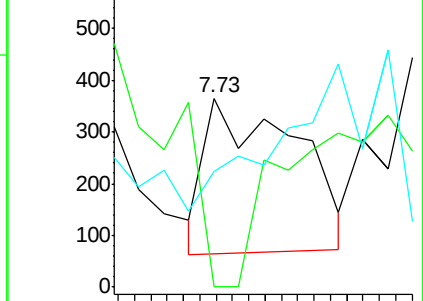
Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.5	39.7#
58	0.0	56.8	85.2#

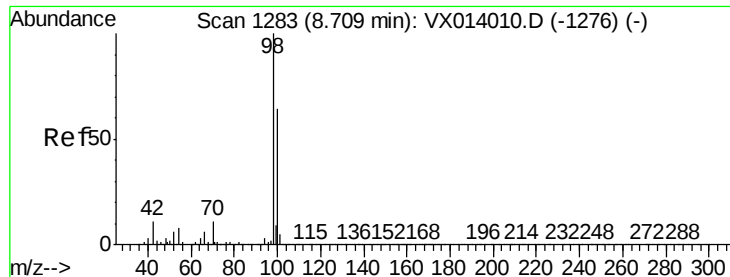


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.299 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

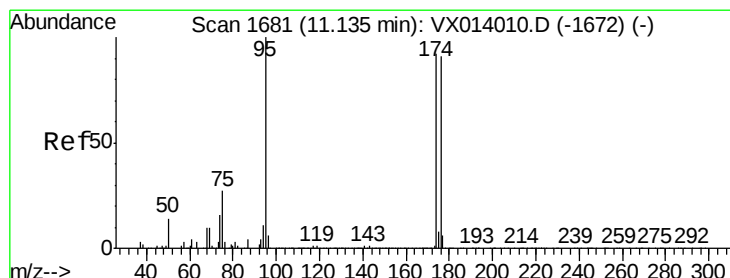
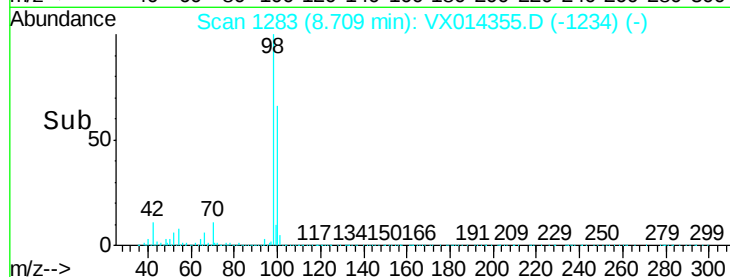
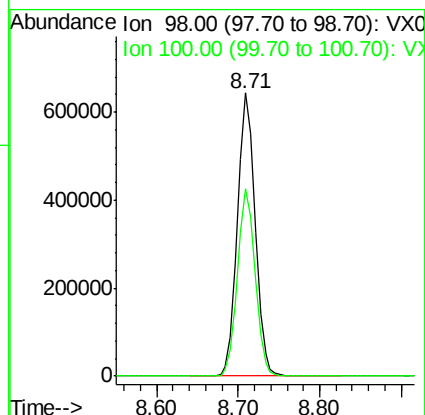
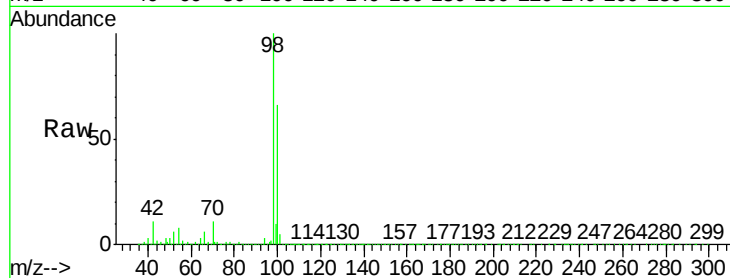
TB

Tot Ion: 98 Resp: 955898

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.558 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

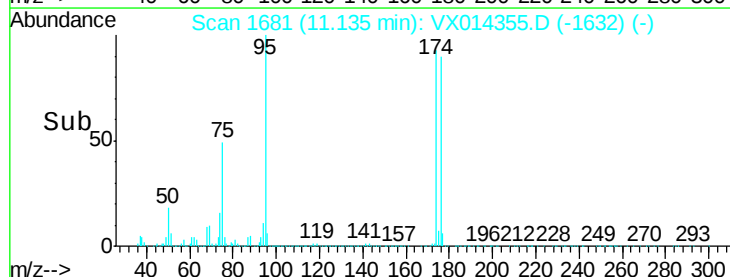
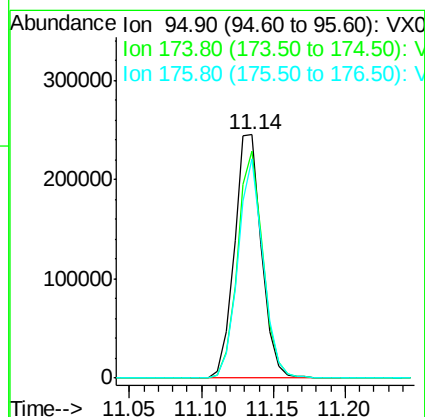
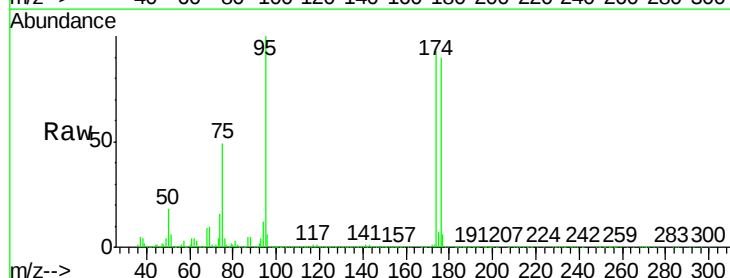
Tgt Ion: 95 Resp: 323430

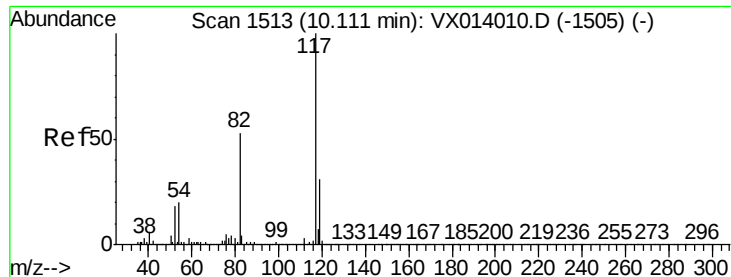
Ion Ratio Lower Upper

95 100

174 87.3 0.0 175.8

176 83.9 0.0 173.0

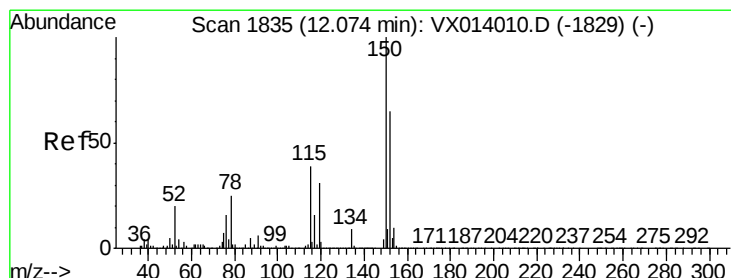
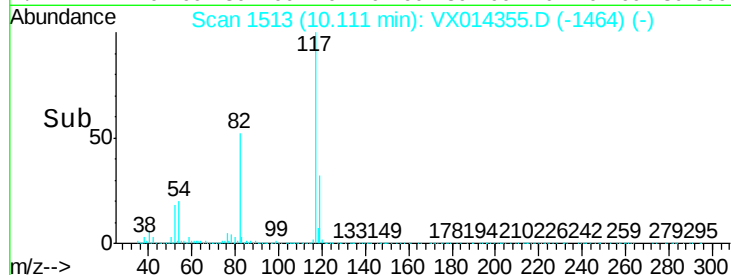
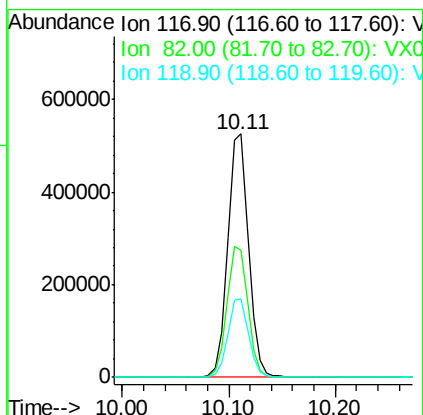
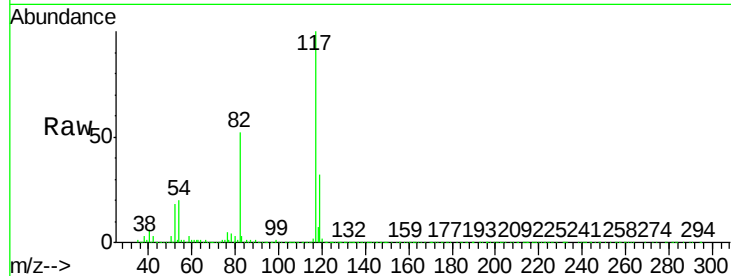




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

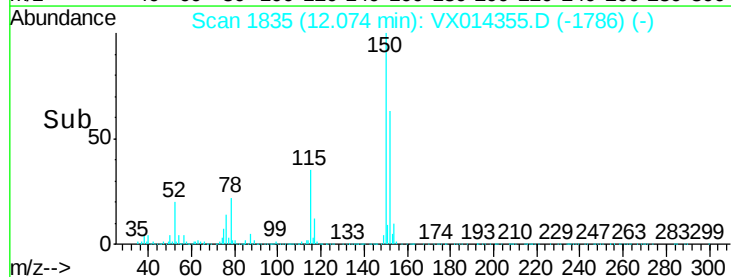
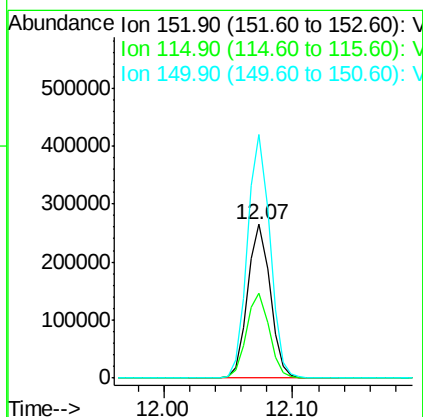
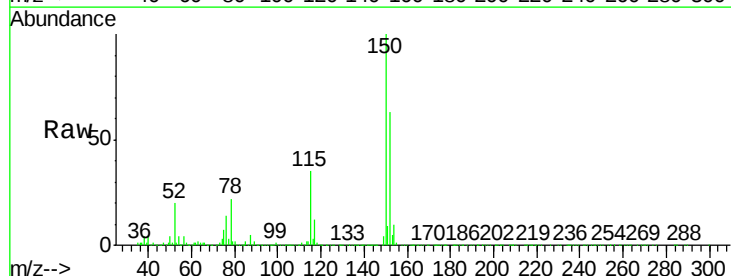
Instrument :
MSVOA_X
ClientSampleId :
TB

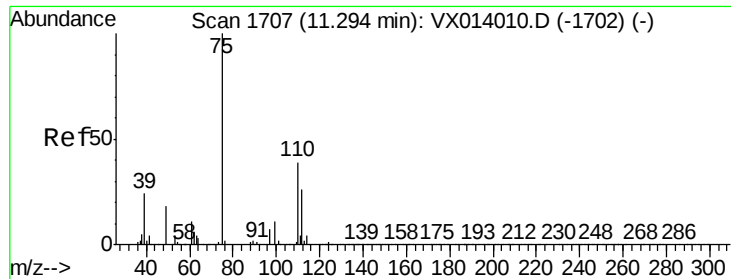
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.4
119	32.4	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014355.D
Acq: 30 Dec 2019 15:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	38.3	114.9
150	157.9	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 22.970 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

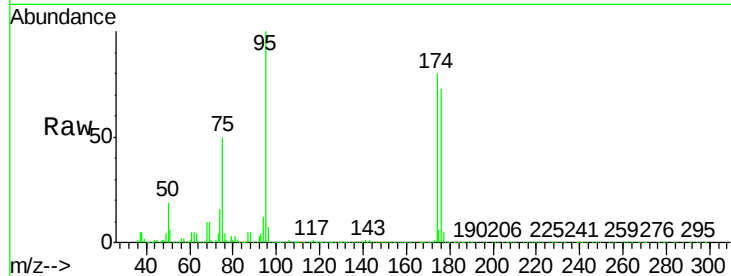
TB

Tot Ion: 75 Resp: 158745

Ion Ratio Lower Upper

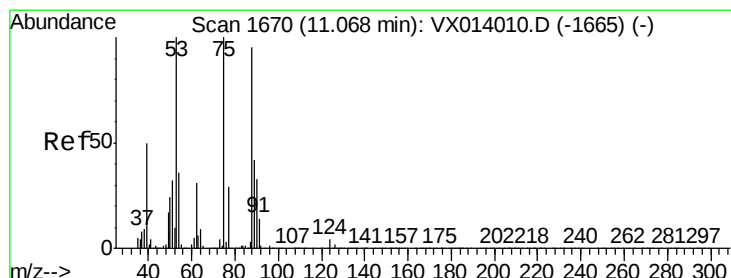
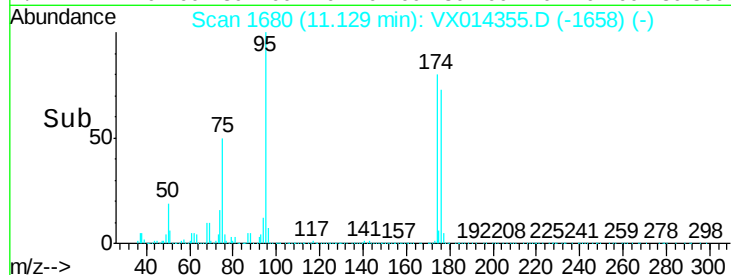
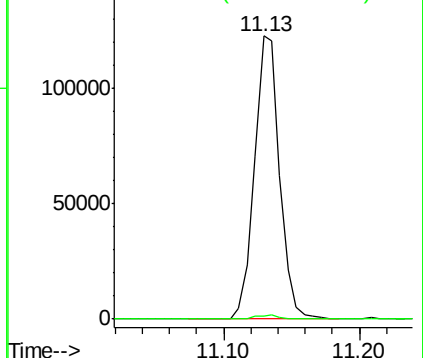
75 100

77 1.4 19.3 57.8#



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: 64.835 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014355.D

Acq: 30 Dec 2019 15:46

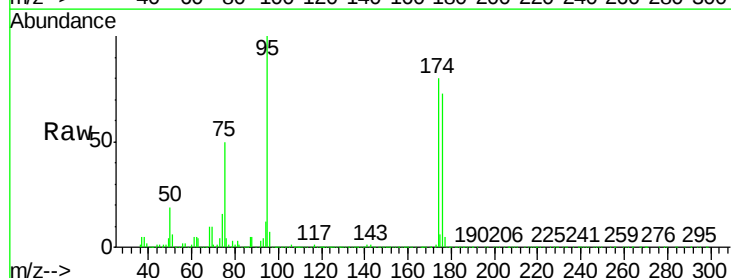
Tgt Ion: 75 Resp: 158745

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.2 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

