

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014098.D
 Acq On : 18 Dec 2019 15:47
 Operator : JC/SP
 Sample : K6331-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 N48353

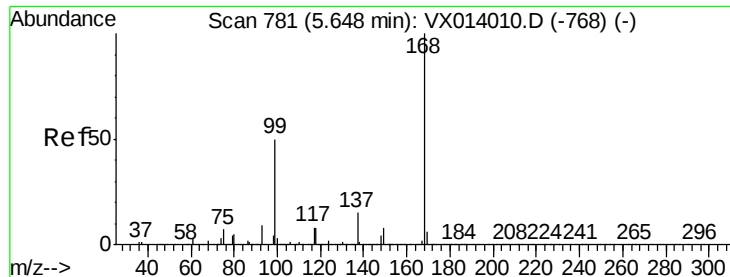
Quant Time: Dec 19 03:00:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	546746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	855701	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	758000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	328305	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	311631	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
35) Dibromofluoromethane	5.49	113	254604	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	8.71	98	1008636	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.13	95	336891	45.51	ug/l	0.00
Spiked Amount			Recovery	=	91.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1364	0.208	ug/l #	80
10) Methyl Iodide	2.52	142	829	2.736	ug/l #	48
11) Tert butyl alcohol	3.01	59	939	0.701	ug/l #	59
13) Acrolein	2.28	56	299	0.390	ug/l #	14
16) Acetone	2.43	43	53416	13.278	ug/l	100
17) Carbon Disulfide	2.56	76	3010	0.953	ug/l #	81
18) Methyl Acetate	2.76	43	4061	0.509	ug/l	98
20) Methylene Chloride	2.85	84	2113	0.334	ug/l #	77
25) 2-Butanone	4.67	43	11291	2.277	ug/l	98
28) Bromochloromethane	5.01	49	361	0.543	ug/l #	94
29) Tetrahydrofuran	5.14	42	1459	0.526	ug/l #	33
36) 1,1-Dichloropropene	5.65	75	37718	4.804	ug/l #	51
38) Carbon Tetrachloride	5.65	117	47266	6.608	ug/l #	15
49) 1,4-Dioxane	7.74	88	581	4.063	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	166459	23.355	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	166459	65.919	ug/l #	11
86) p-Isopropyltoluene	12.06	119	8515	0.417	ug/l #	82
92) 1,2-Dibromo-3-Chloropropan	13.03	75	666	0.376	ug/l #	31

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

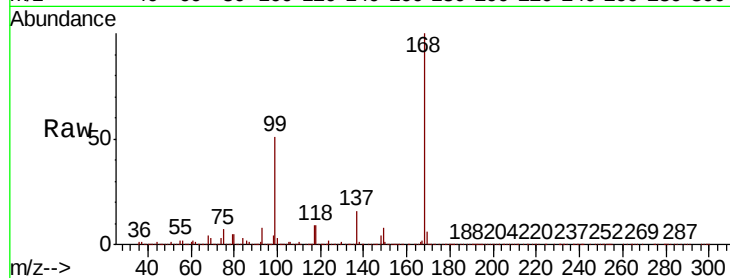


#1

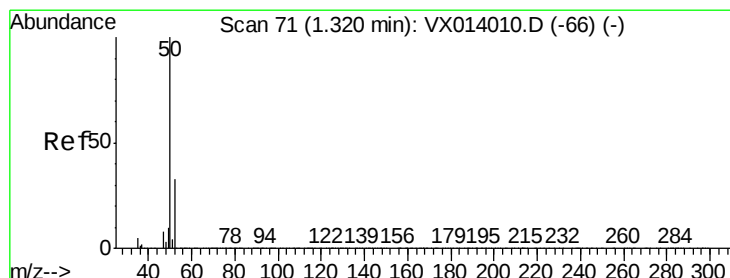
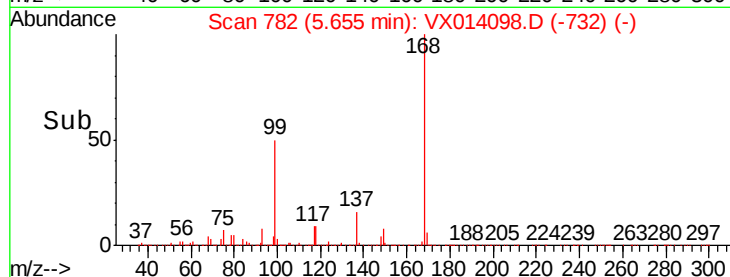
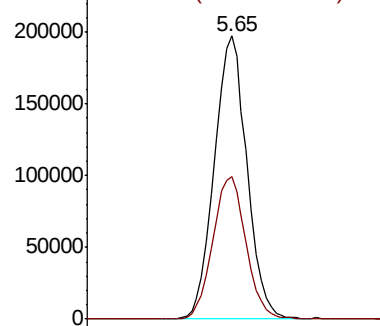
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Instrument :
MSVOA_X
ClientSampled :
N48353

Tot Ion:168 Resp: 546746
Ion Ratio Lower Upper
168 100
99 50.5 40.3 60.5



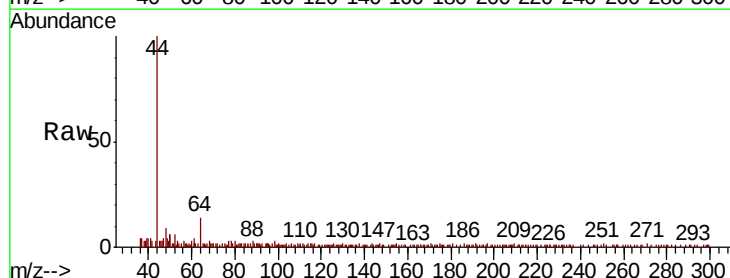
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



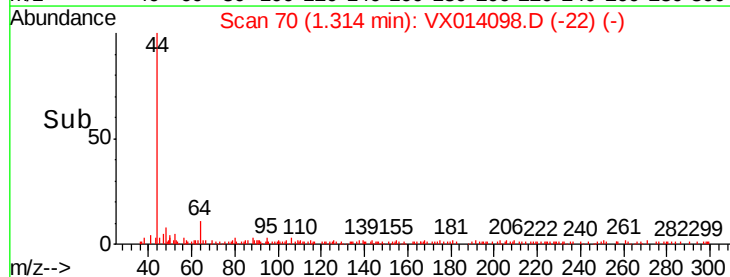
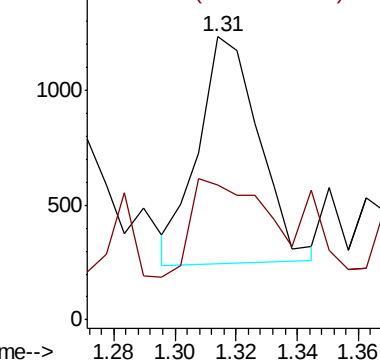
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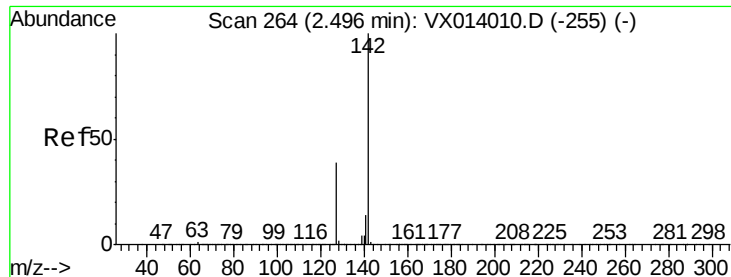
Chloromethane
Concen: 0.208 ug/l
RT: 1.31 min Scan# 70
Delta R.T. -0.01 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Tgt Ion: 50 Resp: 1364
Ion Ratio Lower Upper
50 100
52 44.3 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0
Ion 51.90 (51.60 to 52.60): VX0

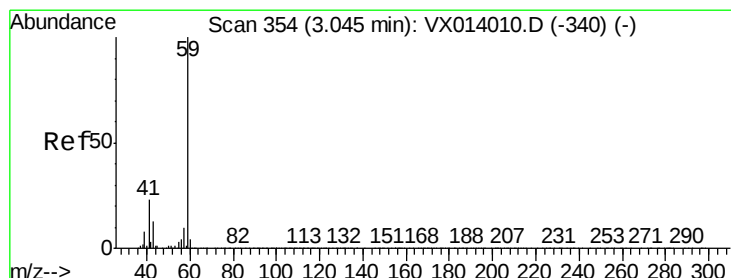
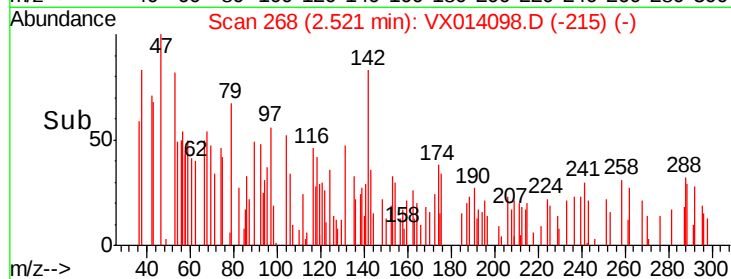
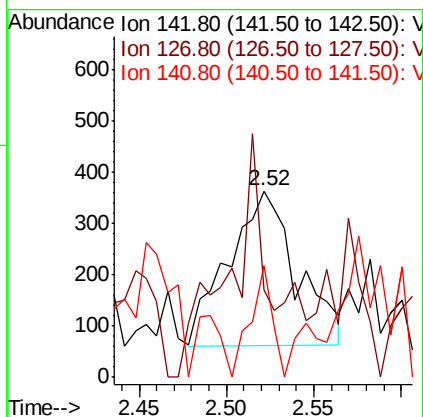
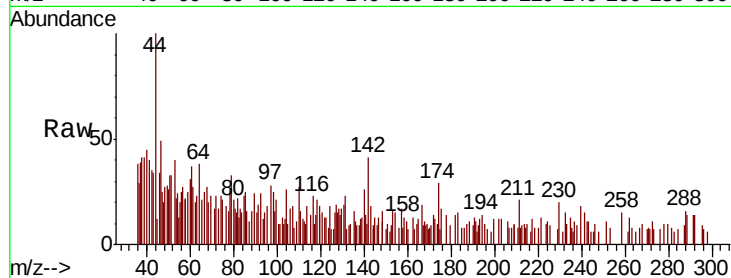




#10
Methyl Iodide
Concen: 2.736 ug/l
RT: 2.52 min Scan# 268
Delta R.T. 0.03 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

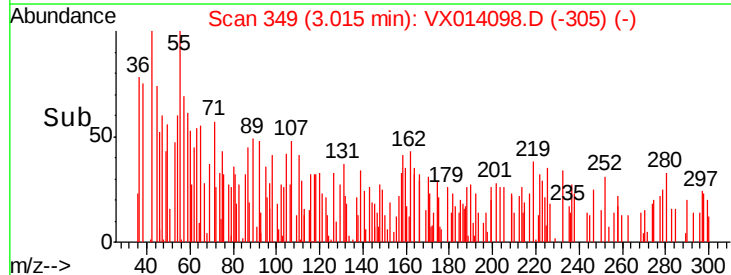
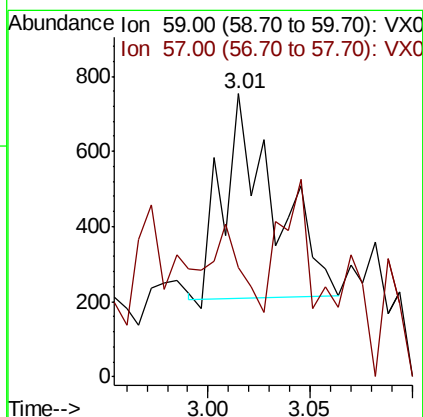
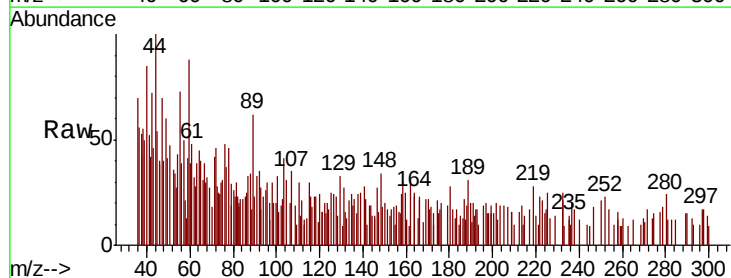
Instrument :
MSVOA_X
ClientSampled :
N48353

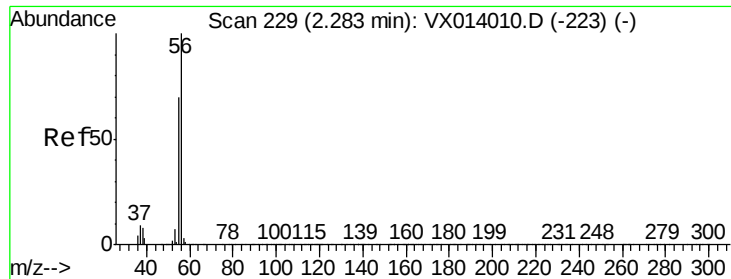
Tot Ion: 142 Resp: 829
Ion Ratio Lower Upper
142 100
127 78.4 31.6 47.4#
141 22.7 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.701 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Tgt Ion: 59 Resp: 939
Ion Ratio Lower Upper
59 100
57 26.0 8.4 12.6#





#13

Acrolein

Concen: 0.390 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

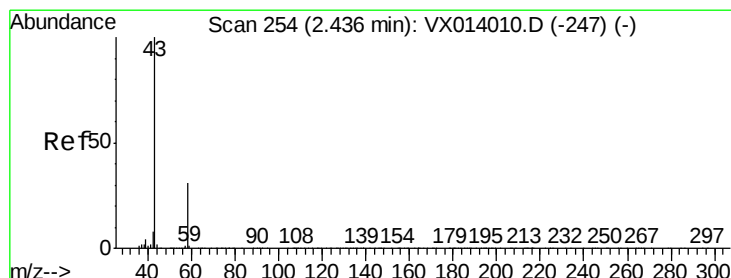
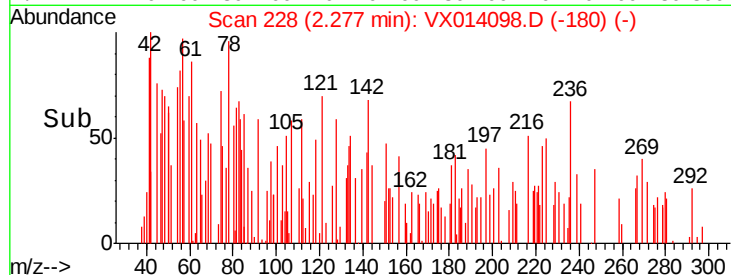
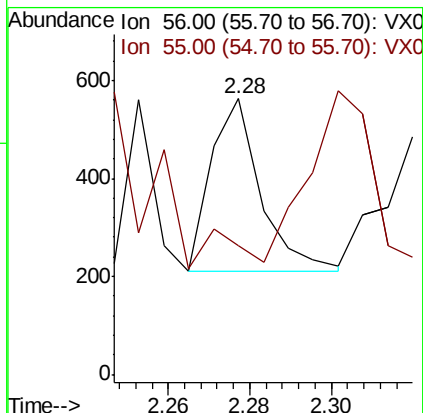
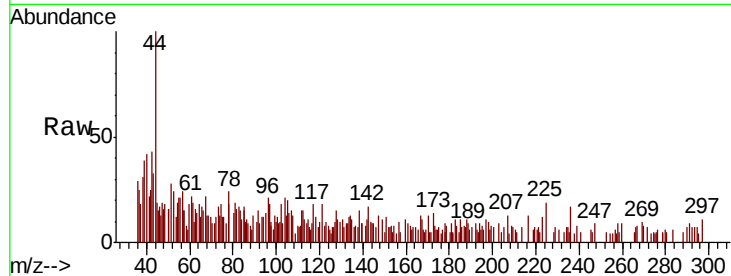
N48353

Tot Ion: 56 Resp: 299

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 13.278 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014098.D

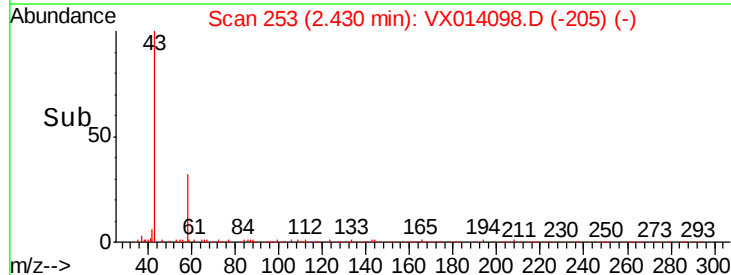
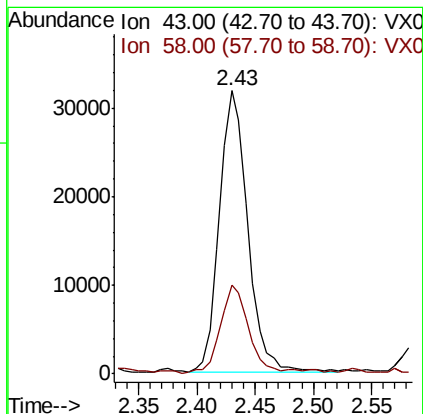
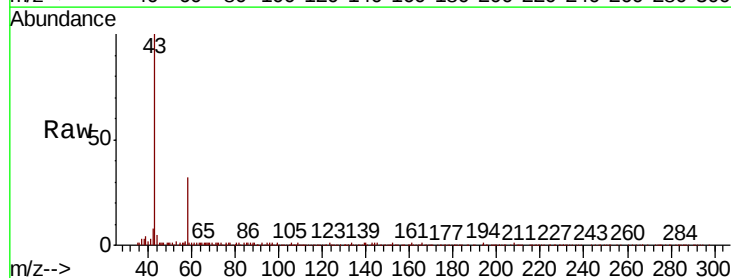
Acq: 18 Dec 2019 15:47

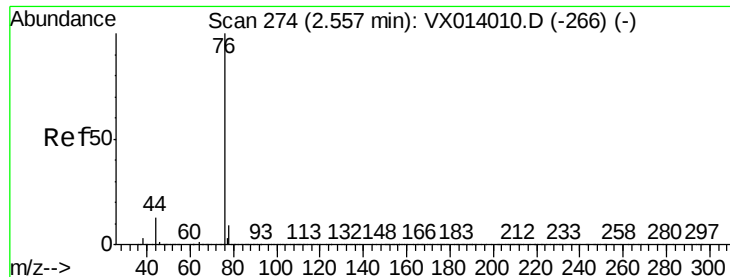
Tgt Ion: 43 Resp: 53416

Ion Ratio Lower Upper

43 100

58 31.1 24.9 37.3

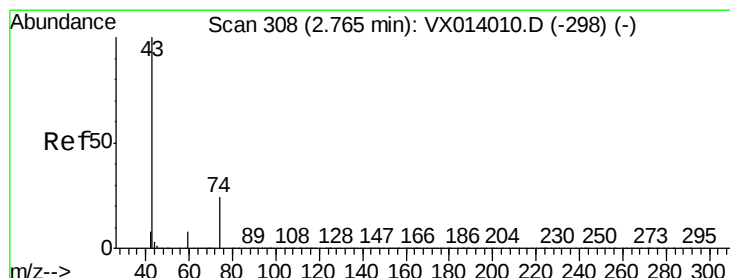
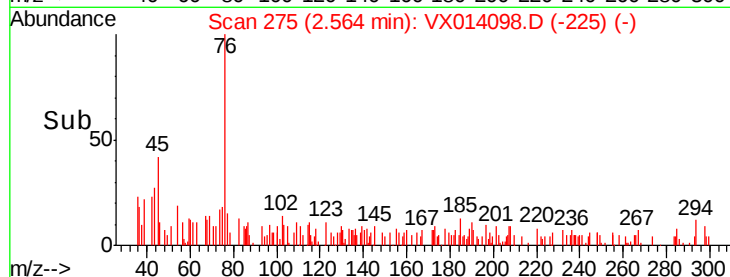
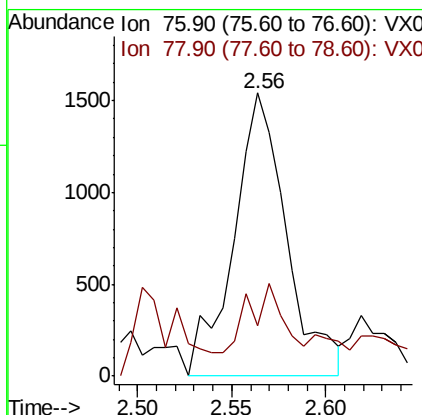
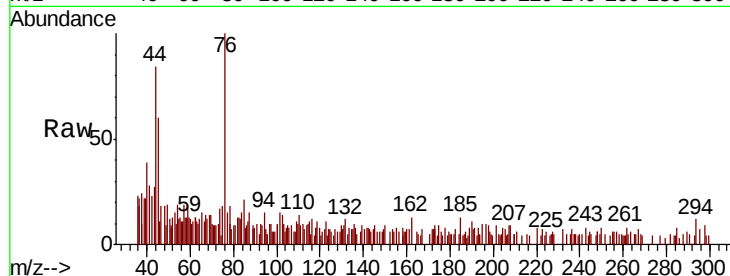




#17
Carbon Disulfide
Concen: 0.953 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

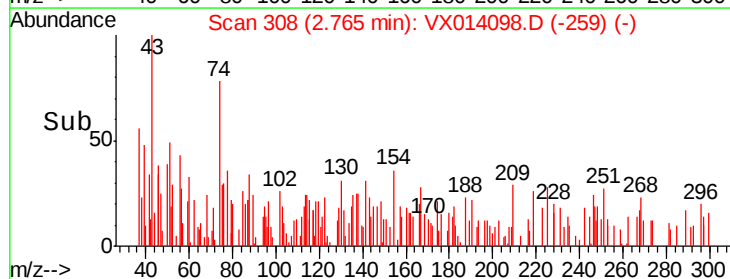
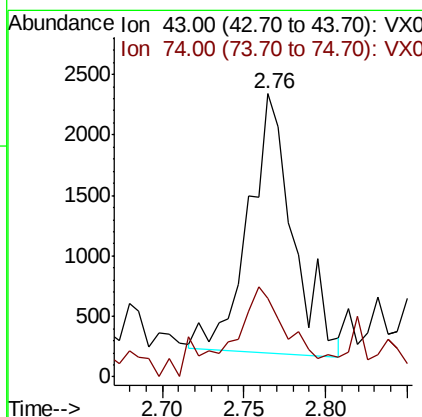
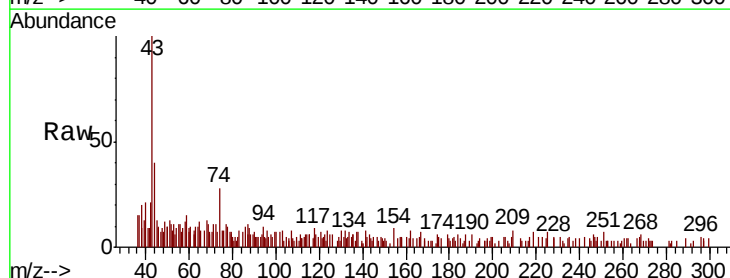
Instrument :
MSVOA_X
ClientSampleId :
N48353

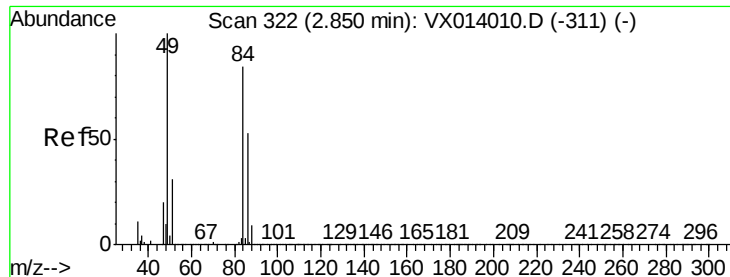
Tot Ion: 76 Resp: 3010
Ion Ratio Lower Upper
76 100
78 16.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.509 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Tgt Ion: 43 Resp: 4061
Ion Ratio Lower Upper
43 100
74 25.6 19.5 29.3

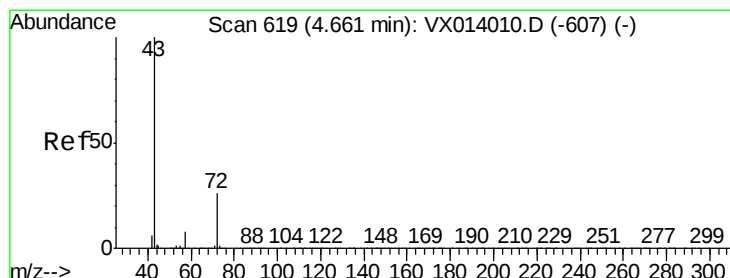
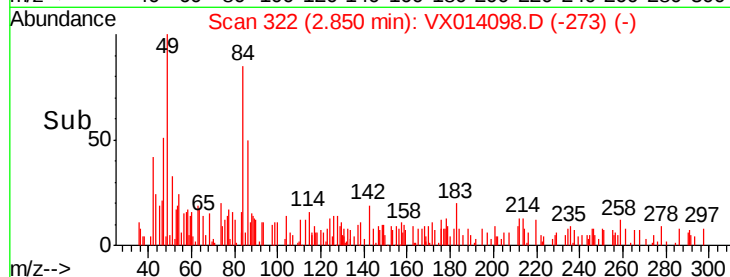
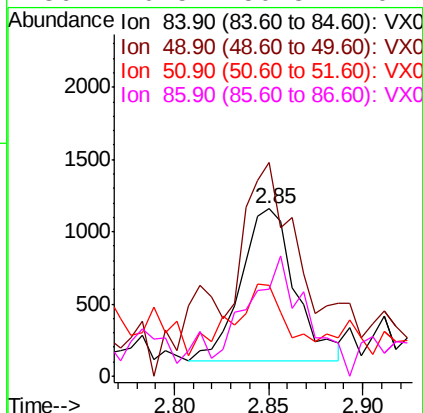
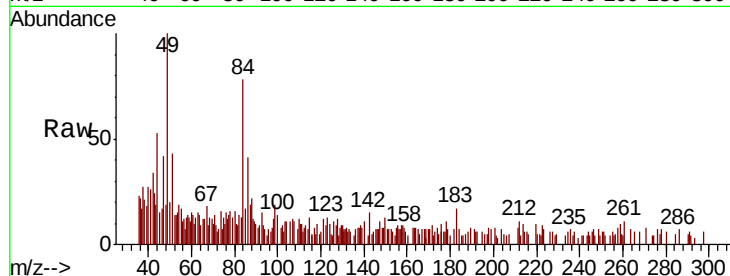




#20
Methvlene Chloride
Concen: 0.334 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

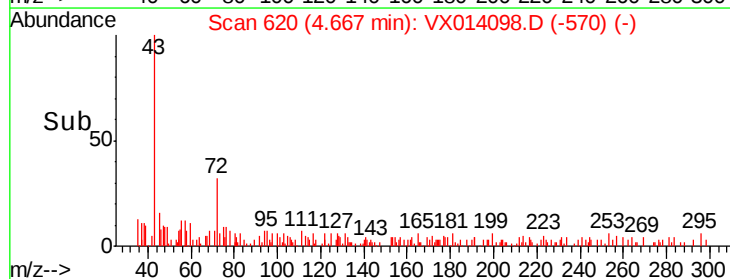
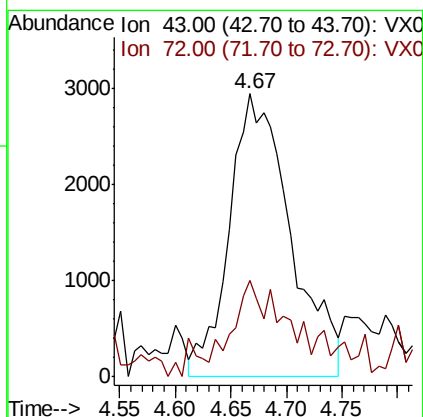
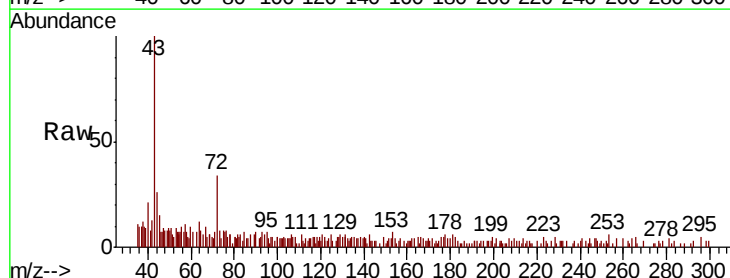
Instrument :
MSVOA_X
ClientSampleId :
N48353

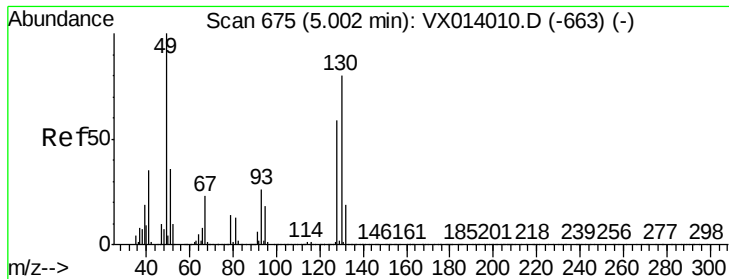
Tot Ion:	84	Resp:	2113
Ion	Ratio	Lower	Upper
84	100		
49	94.2	95.8	143.6#
51	45.8	29.8	44.8#
86	40.5	50.8	76.2#



#25
2-Butanone
Concen: 2.277 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Tgt Ion:	43	Resp:	11291
Ion	Ratio	Lower	Upper
43	100		
72	25.2	21.0	31.4





#28

Bromochloromethane

Concen: 0.543 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

N48353

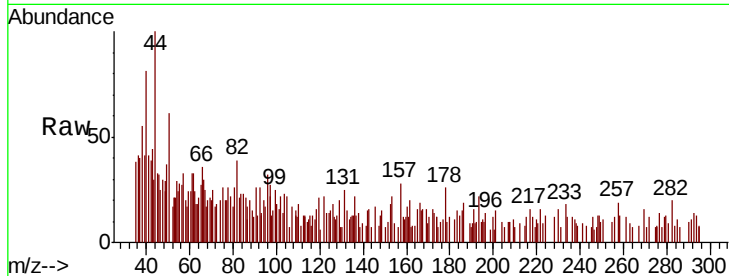
Tot Ion: 49 Resp: 361

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

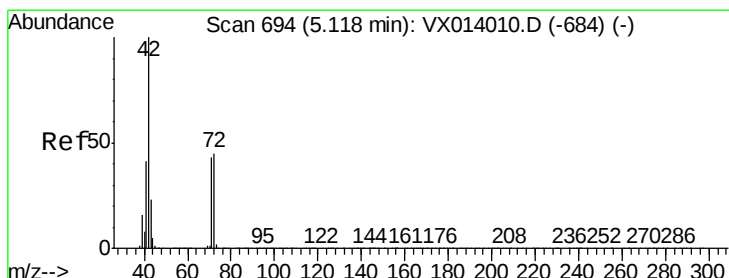
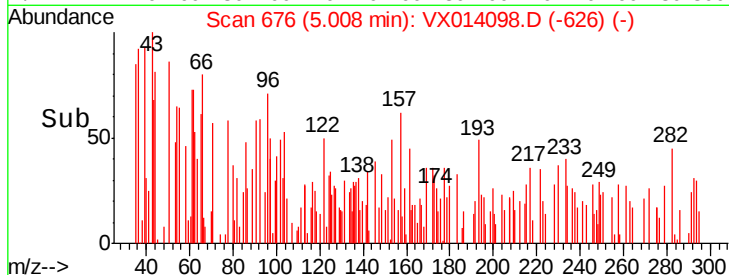
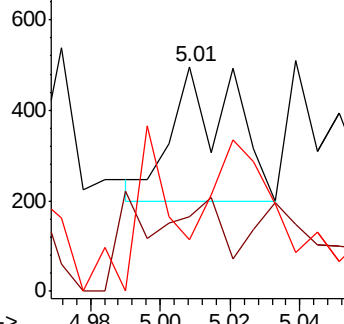
130 86.1 64.6 97.0



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.526 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.02 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

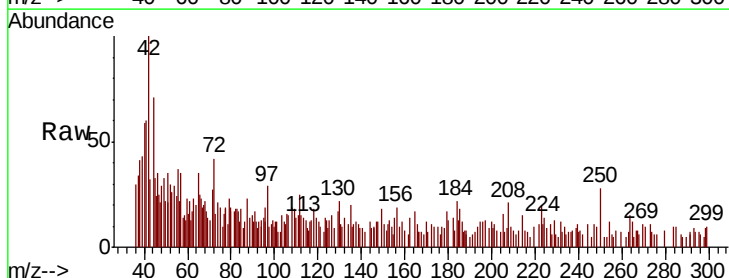
Tgt Ion: 42 Resp: 1459

Ion Ratio Lower Upper

42 100

72 109.3 35.8 53.8#

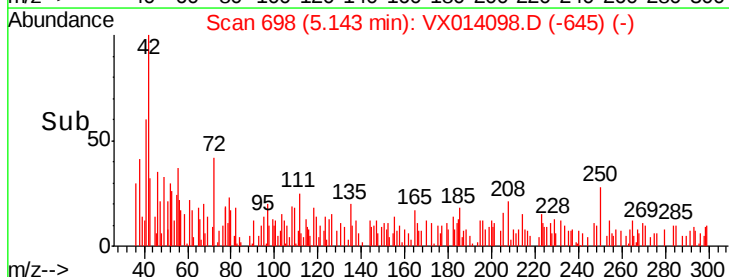
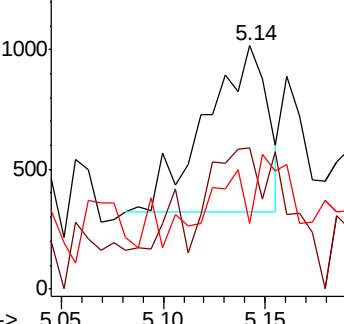
71 21.2 33.6 50.4#

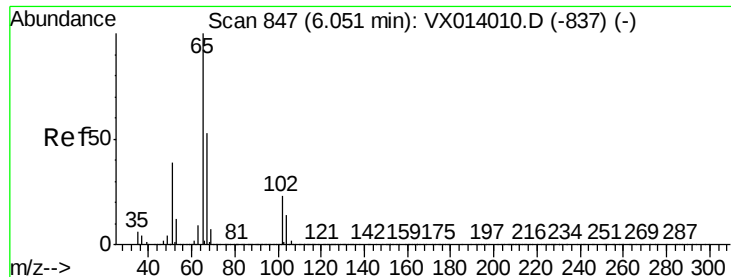


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.291 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

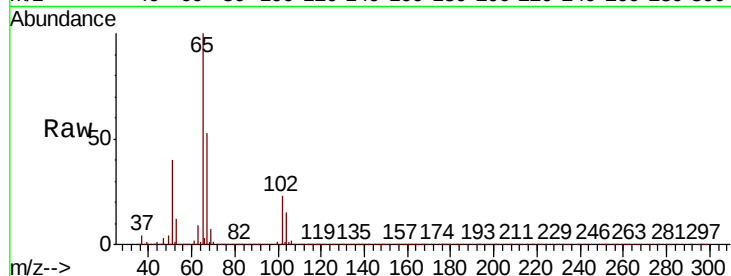
N48353

Tot Ion: 65 Resp: 311631

Ion Ratio Lower Upper

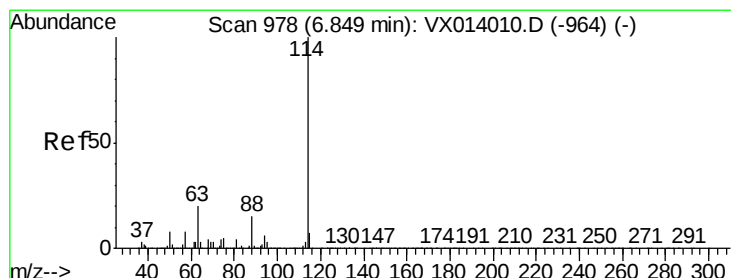
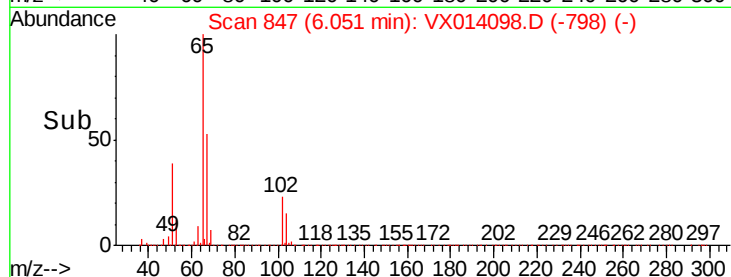
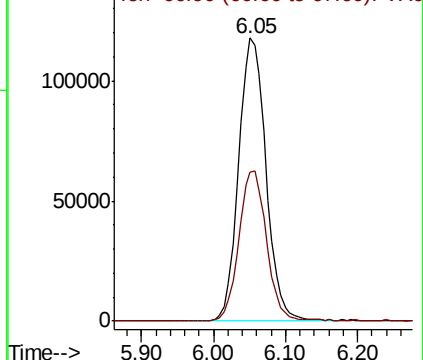
65 100

67 53.5 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

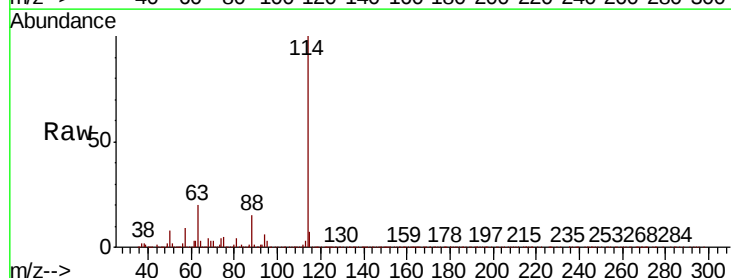
Tgt Ion: 114 Resp: 855701

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

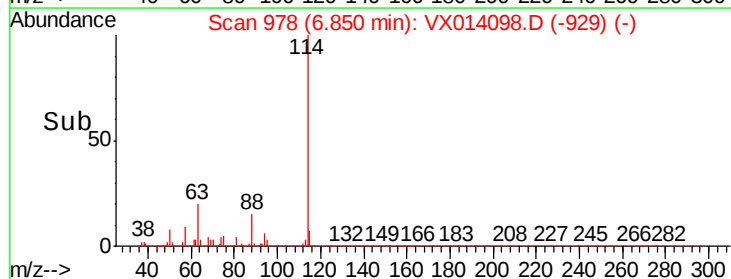
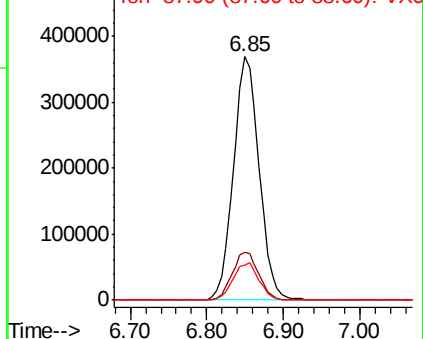
88 14.5 0.0 30.4

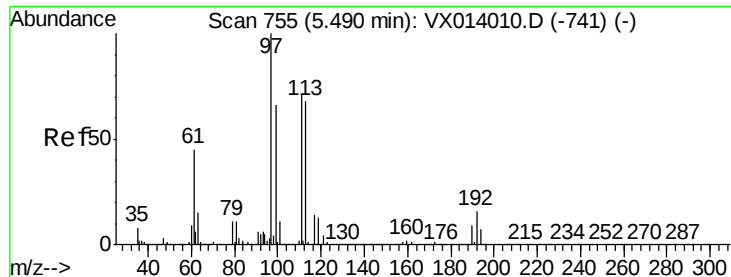


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.946 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

N48353

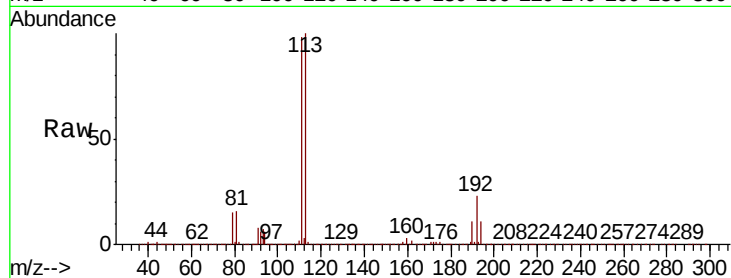
Tot Ion:113 Resp: 254604

Ion Ratio Lower Upper

113 100

111 104.0 82.0 123.0

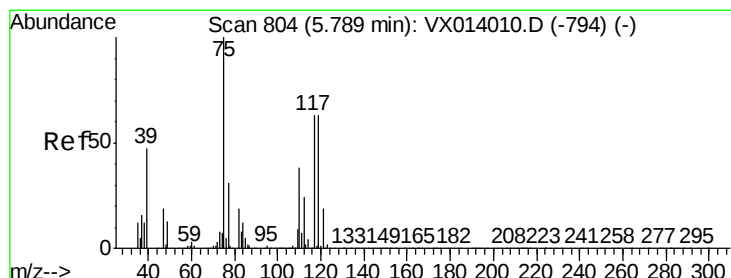
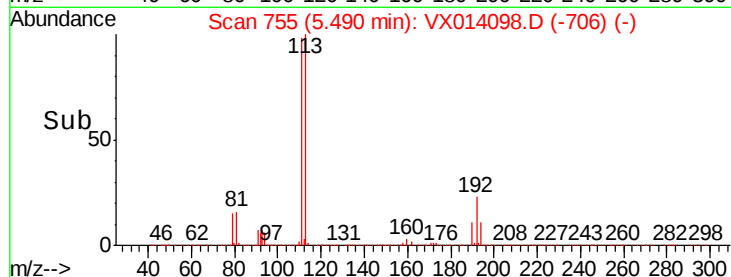
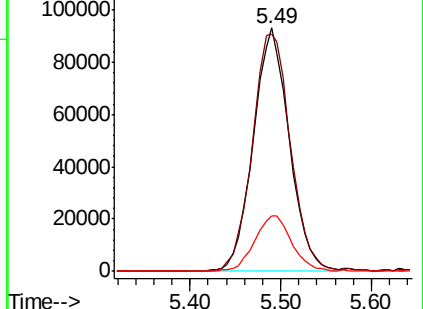
192 23.4 19.3 28.9



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: 4.804 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

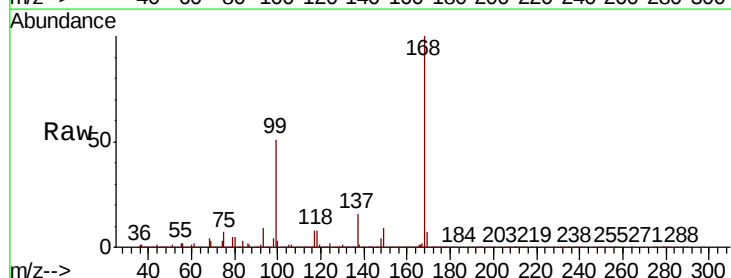
Tgt Ion: 75 Resp: 37718

Ion Ratio Lower Upper

75 100

110 11.0 18.3 54.9#

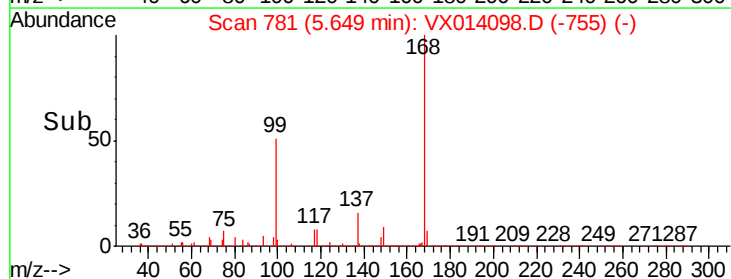
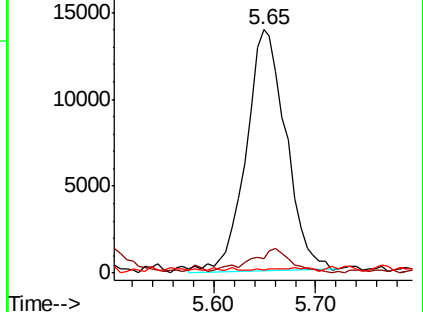
77 0.0 24.8 37.2#

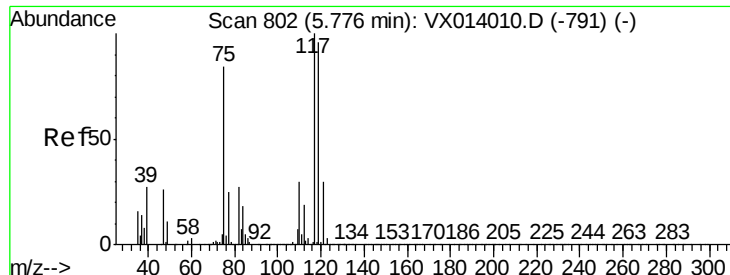


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.608 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampled :

N48353

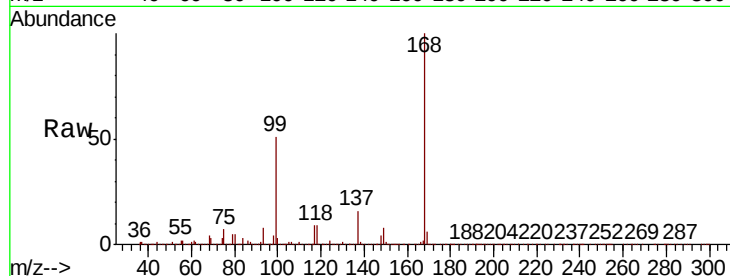
Tot Ion:117 Resp: 47266

Ion Ratio Lower Upper

117 100

119 2.9 76.2 114.4#

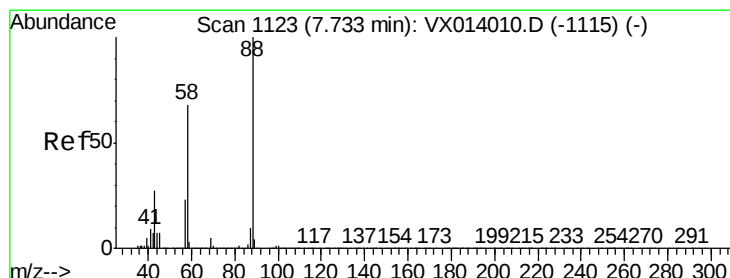
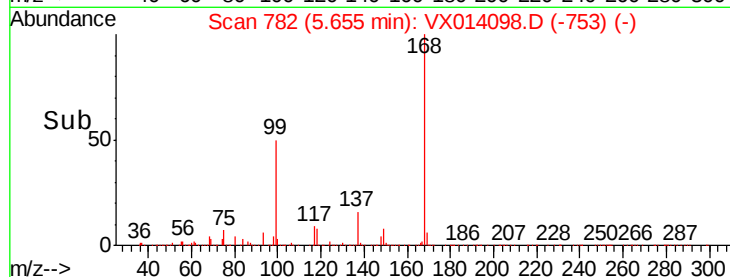
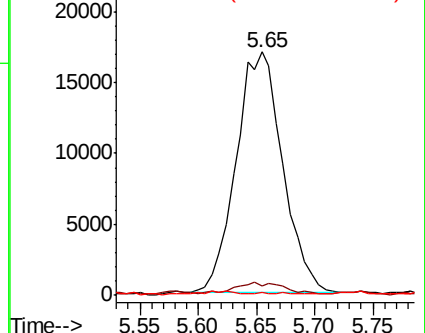
121 0.4 23.6 35.4#



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: 4.063 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

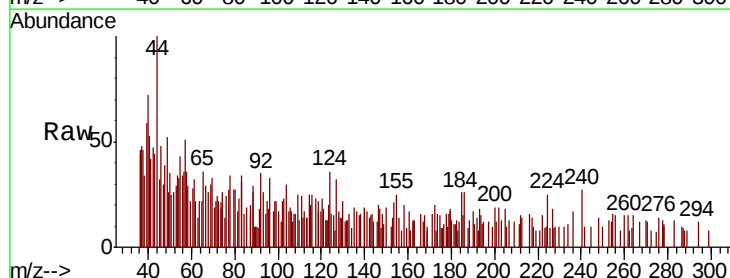
Tgt Ion: 88 Resp: 581

Ion Ratio Lower Upper

88 100

43 72.6 26.5 39.7#

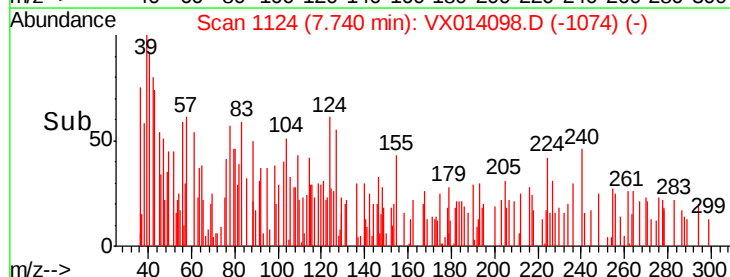
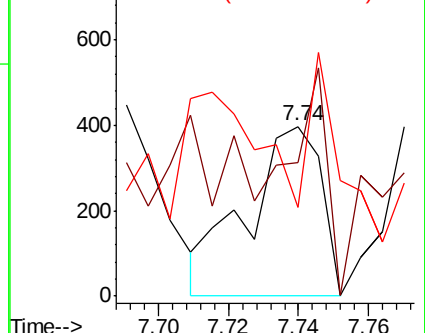
58 44.2 56.8 85.2#

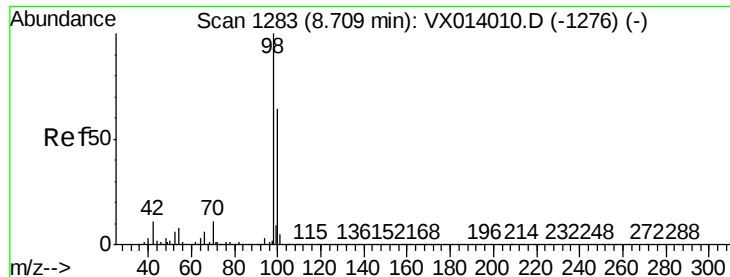


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.805 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

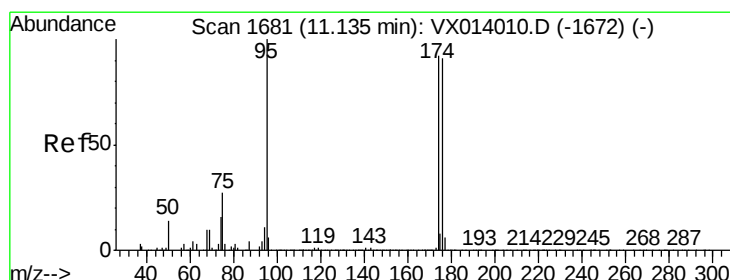
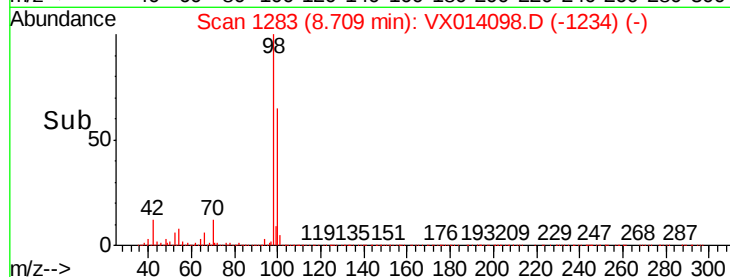
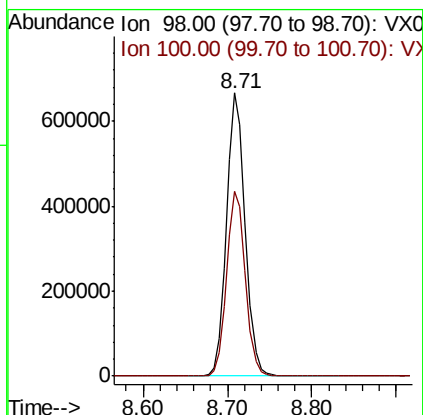
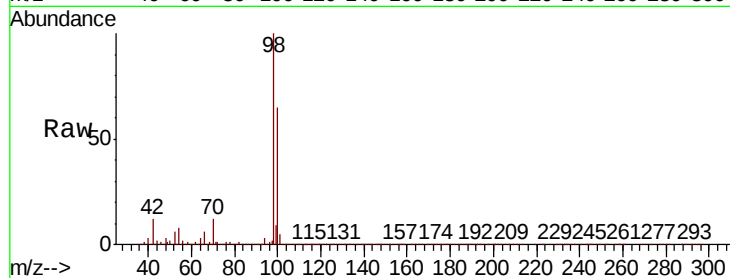
N48353

Tot Ion: 98 Resp: 1008636

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.508 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

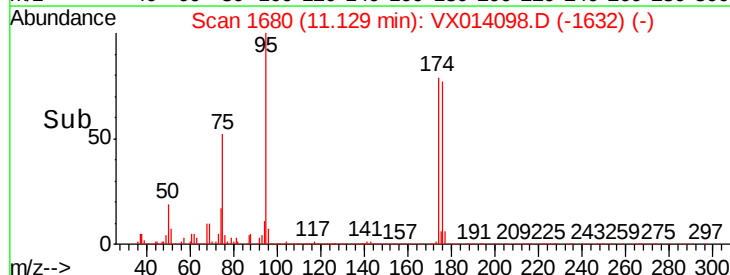
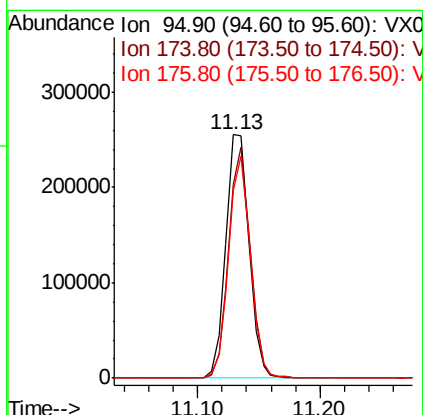
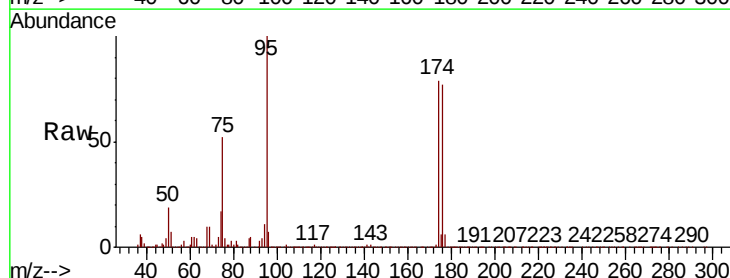
Tgt Ion: 95 Resp: 336891

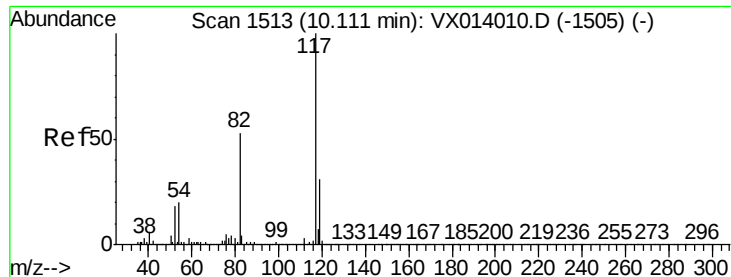
Ion Ratio Lower Upper

95 100

174 87.8 0.0 175.8

176 84.9 0.0 173.0

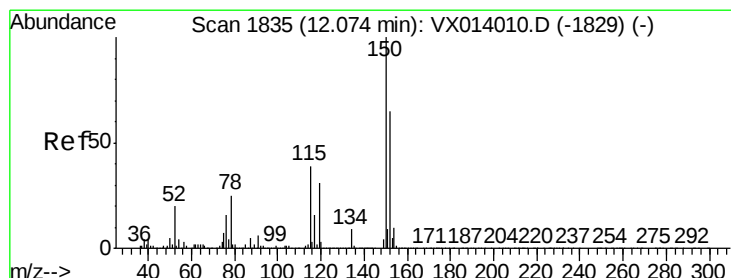
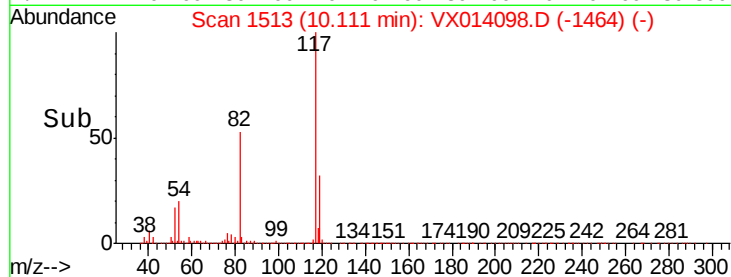
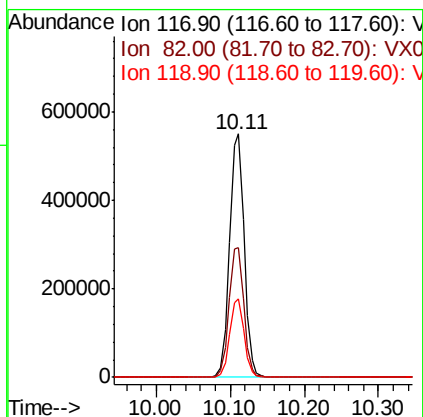
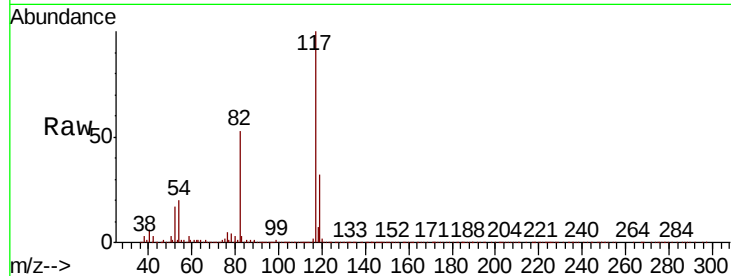




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

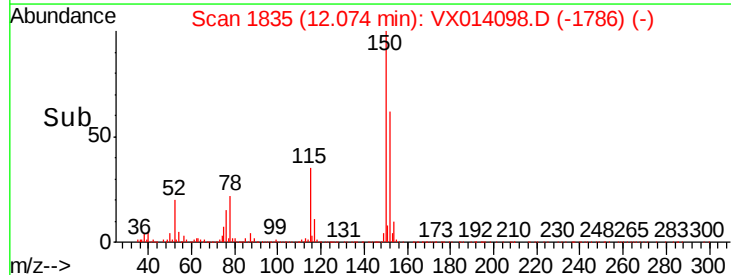
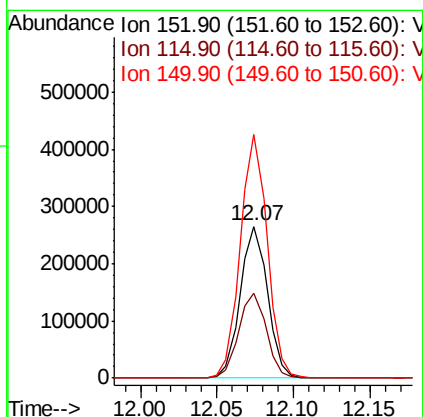
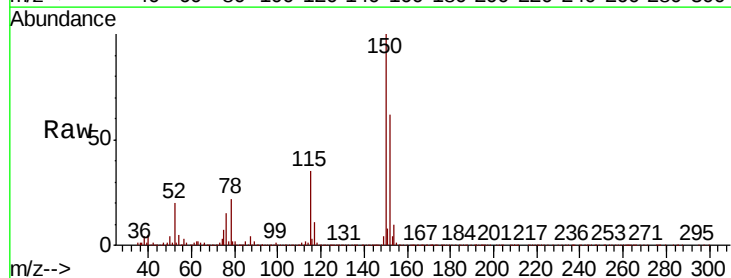
Instrument :
MSVOA_X
ClientSampleId :
N48353

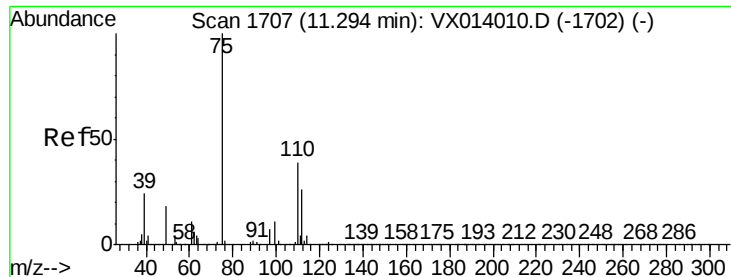
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.2	63.4
119	32.0	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014098.D
Acq: 18 Dec 2019 15:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	38.3	114.9
150	158.6	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 23.355 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

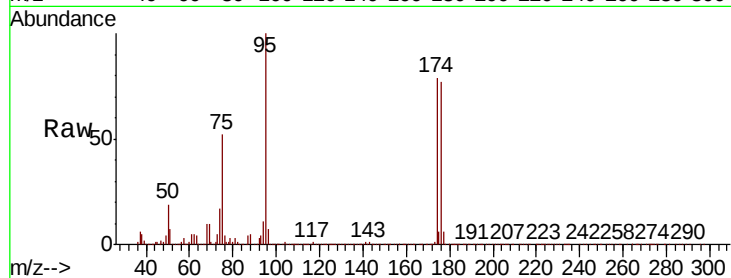
N48353

Tot Ion: 75 Resp: 166459

Ion Ratio Lower Upper

75 100

77 1.6 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

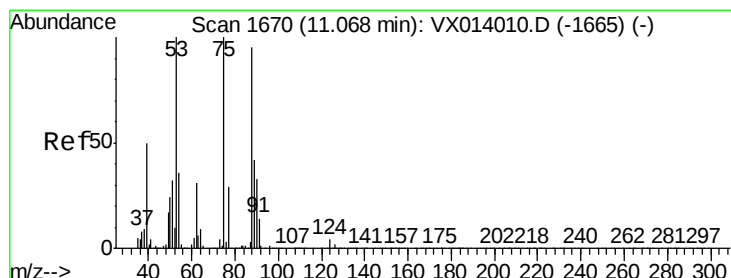
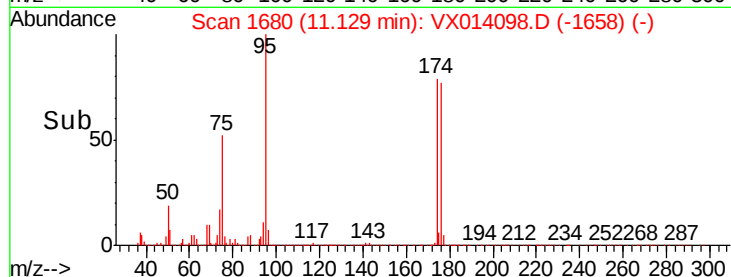
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.919 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

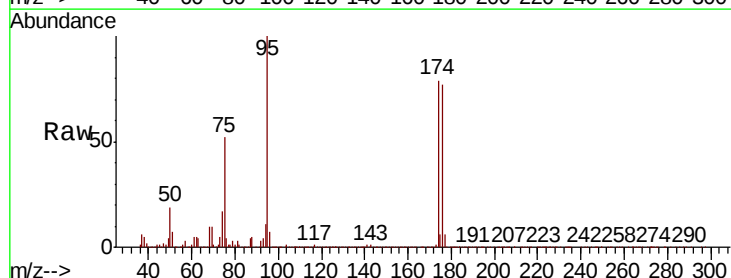
Tgt Ion: 75 Resp: 166459

Ion Ratio Lower Upper

75 100

53 0.1 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

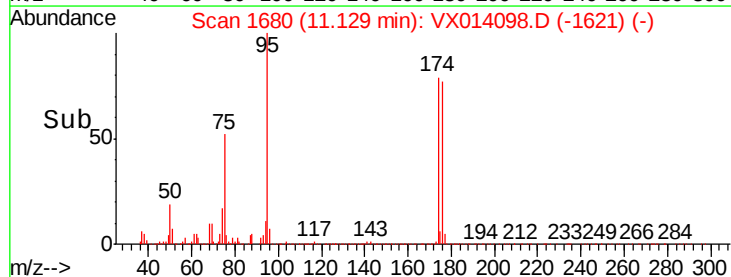
150000

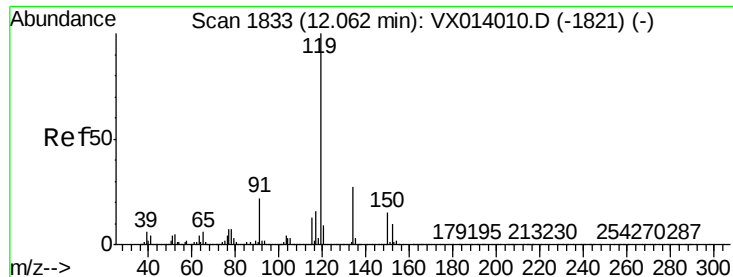
100000

50000

0

Time-->





#86

p-Isopropyltoluene

Concen: 0.417 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

N48353

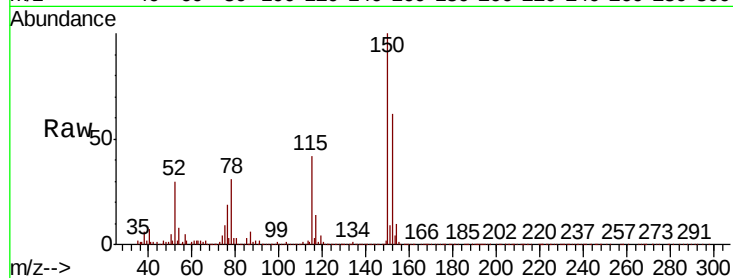
Tot Ion:119 Resp: 8515

Ion Ratio Lower Upper

119 100

134 31.2 13.4 40.1

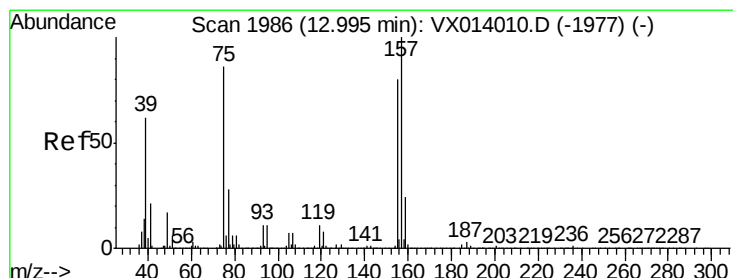
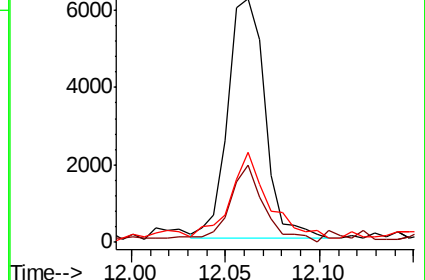
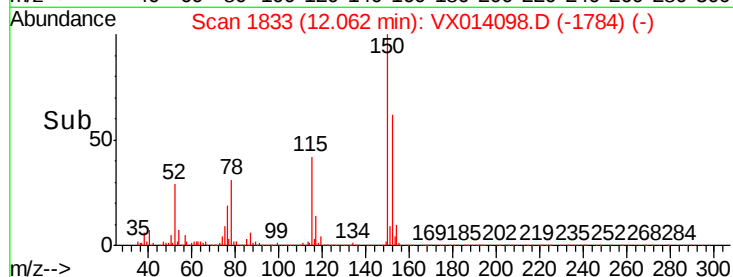
91 36.2 11.4 34.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.376 ug/l

RT: 13.03 min Scan# 1991

Delta R.T. 0.03 min

Lab File: VX014098.D

Acq: 18 Dec 2019 15:47

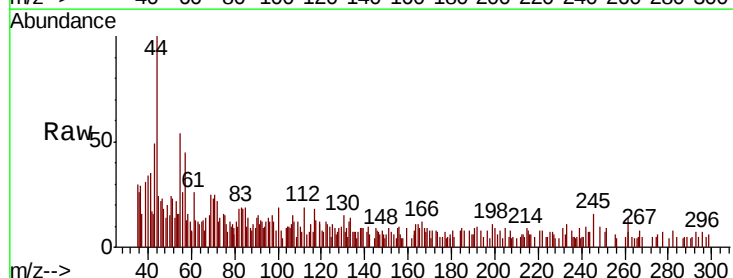
Tgt Ion: 75 Resp: 666

Ion Ratio Lower Upper

75 100

155 54.4 46.9 140.6

157 19.1 60.8 182.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

