

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021420\
 Data File : VX014941.D
 Acq On : 14 Feb 2020 12:54
 Operator : JC/SP
 Sample : L1533-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 14 22:10:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	474313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	741135	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	695110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	351662	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	269699	50.38	ug/l	-0.01
Spiked Amount						
			Recovery	=	100.76%	
35) Dibromofluoromethane	5.48	113	226245	49.66	ug/l	0.00
Spiked Amount						
			Recovery	=	99.32%	
50) Toluene-d8	8.71	98	877974	50.48	ug/l	0.00
Spiked Amount						
			Recovery	=	100.96%	
62) 4-Bromofluorobenzene	11.13	95	317087	50.61	ug/l	0.00
Spiked Amount						
			Recovery	=	101.22%	

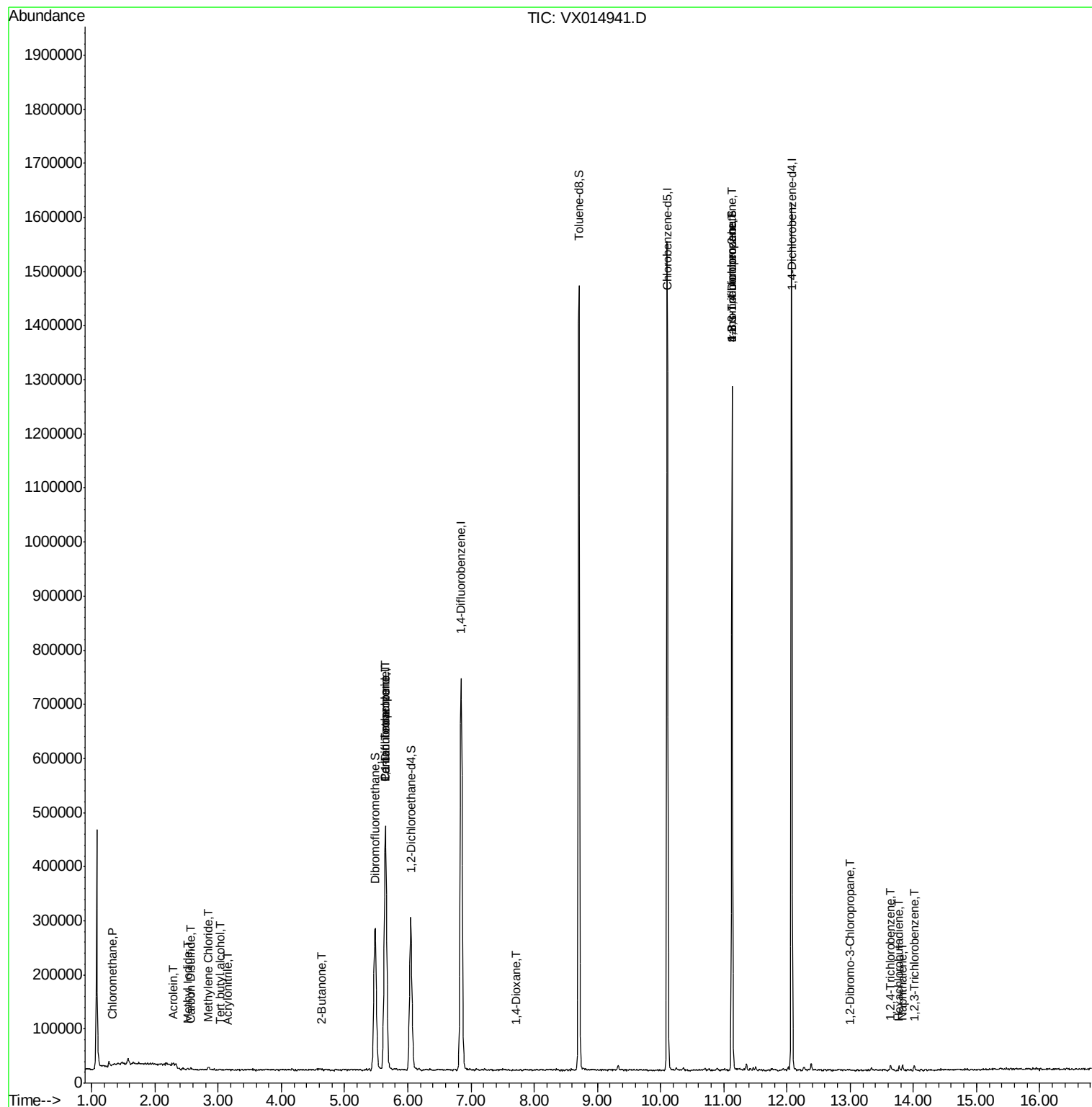
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1412	0.277	ug/l #	71
10) Methyl Iodide	2.51	142	3528	5.018	ug/l #	87
11) Tert butyl alcohol	3.02	59	470	0.497	ug/l #	80
13) Acrolein	2.28	56	321	0.446	ug/l #	76
15) Acrylonitrile	3.14	53	766	0.320	ug/l #	44
16) Acetone	2.42	43	3170	Below Cal	#	86
17) Carbon Disulfide	2.57	76	4357	0.359	ug/l #	92
20) Methylene Chloride	2.84	84	3221	0.626	ug/l #	91
25) 2-Butanone	4.65	43	741	0.203	ug/l #	44
36) 1,1-Dichloropropene	5.65	75	31410	4.738	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41308	6.394	ug/l #	16
49) 1,4-Dioxane	7.73	88	127	1.210	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	160050	25.168	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	160050	64.423	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	555	0.328	ug/l	55
93) 1,2,4-Trichlorobenzene	13.64	180	2868	0.359	ug/l	89
94) Hexachlorobutadiene	13.77	225	1479	0.383	ug/l	85
95) Naphthalene	13.83	128	6412	0.302	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.01	180	2637	0.341	ug/l	89

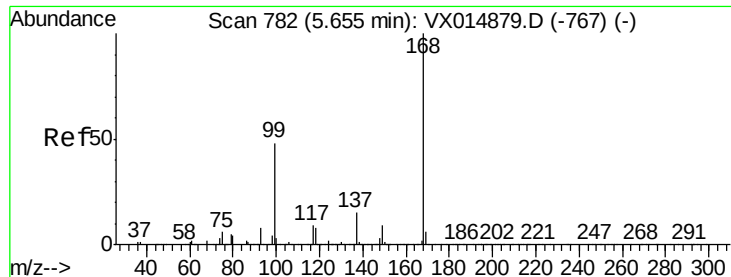
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

Instrument :

MSVOA_X

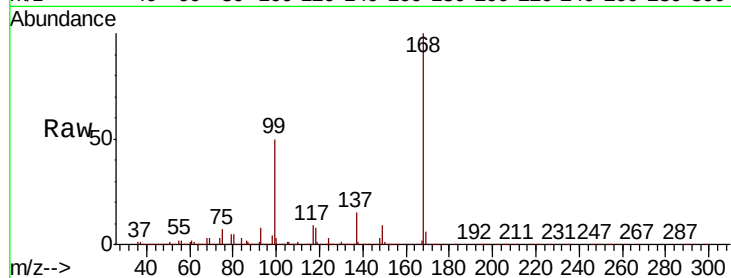
ClientSampleId :

Tot Ion:168 Resp: 474313

Ion Ratio Lower Upper

168 100

99 49.8 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

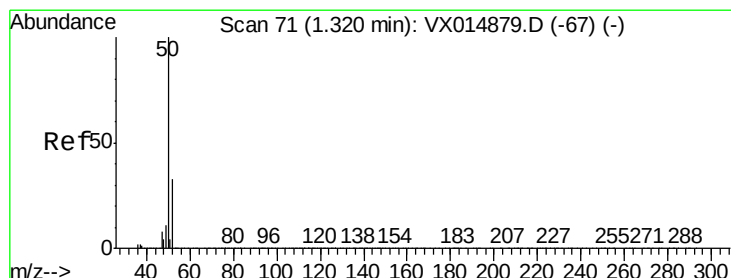
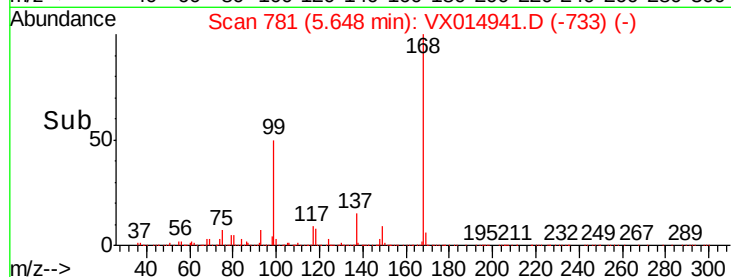
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.277 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014941.D

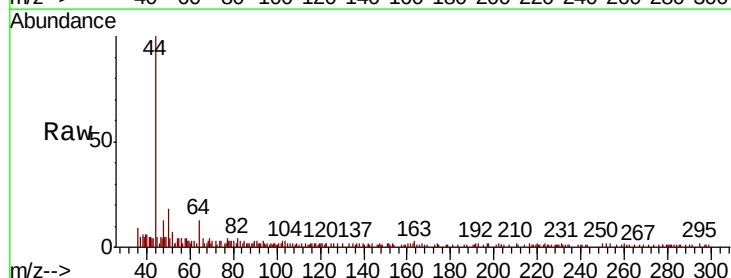
Acq: 14 Feb 2020 12:54

Tgt Ion: 50 Resp: 1412

Ion Ratio Lower Upper

50 100

52 16.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

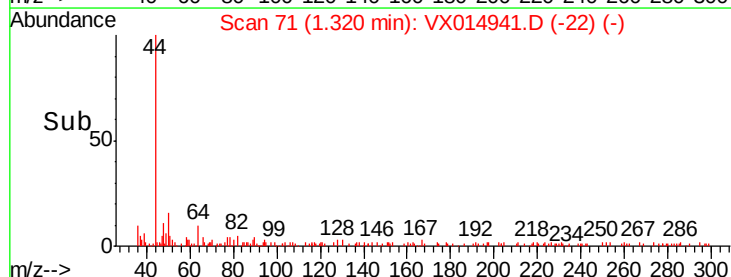
600

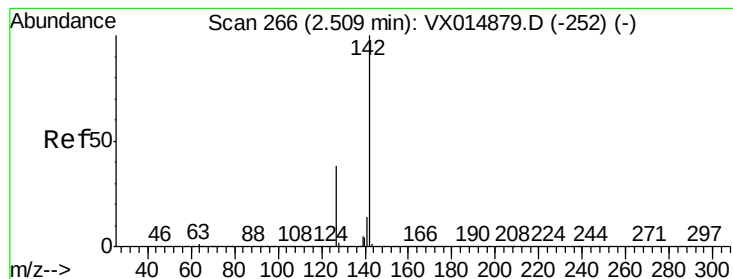
400

200

0

Time-->





#10

Methvl Iodide

Concen: 5.018 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

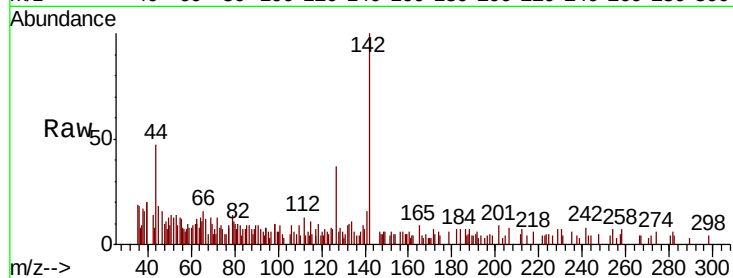
Tot Ion:142 Resp: 3528

Ion Ratio Lower Upper

142 100

127 49.3 31.1 46.7#

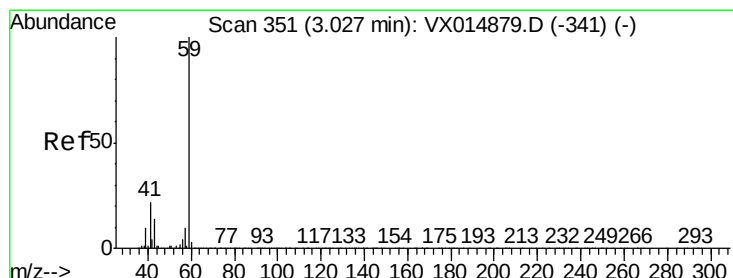
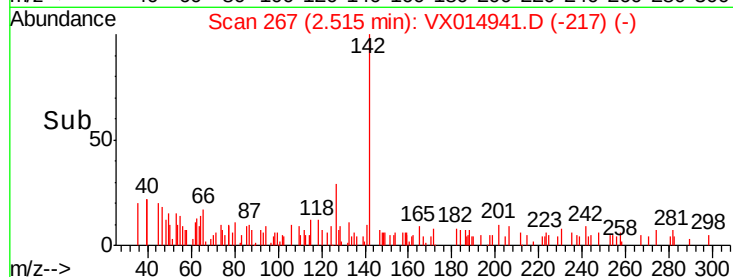
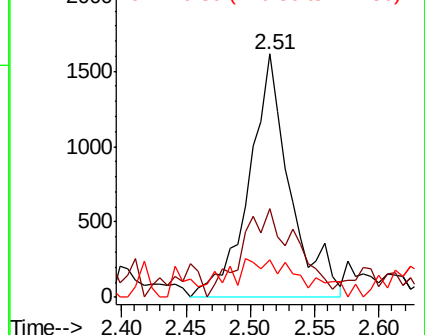
141 14.4 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.497 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX014941.D

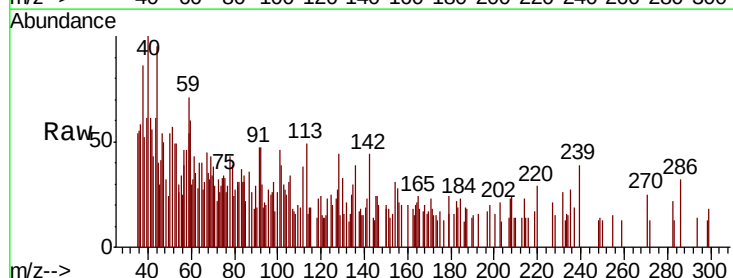
Acq: 14 Feb 2020 12:54

Tgt Ion: 59 Resp: 470

Ion Ratio Lower Upper

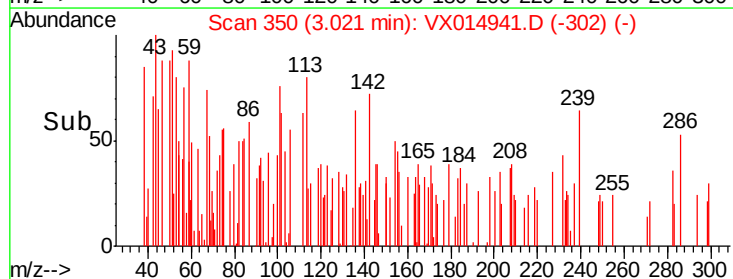
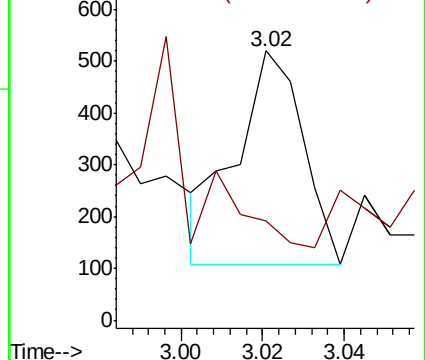
59 100

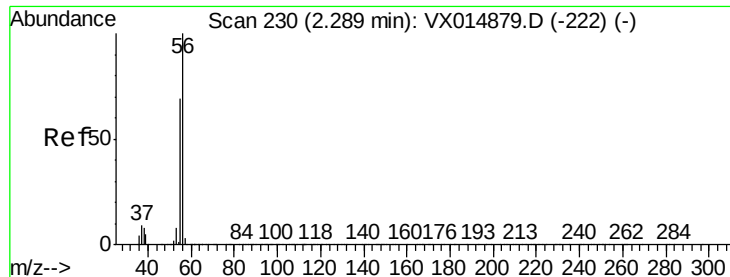
57 17.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.446 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

Instrument :

MSVOA_X

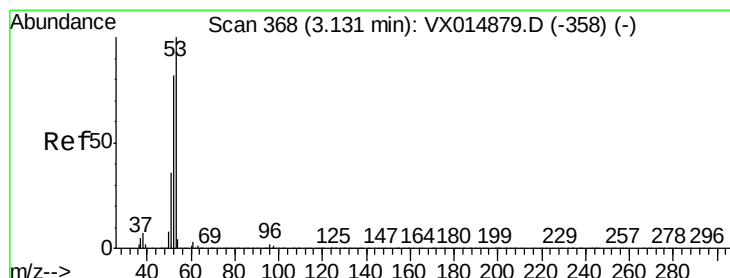
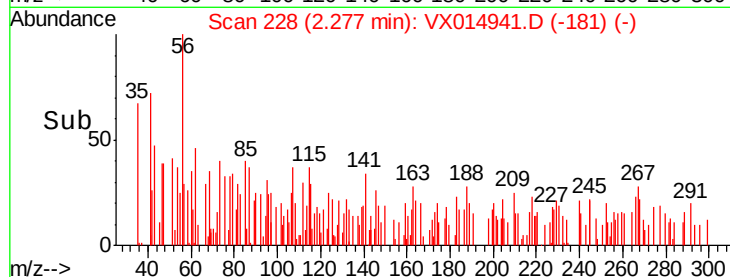
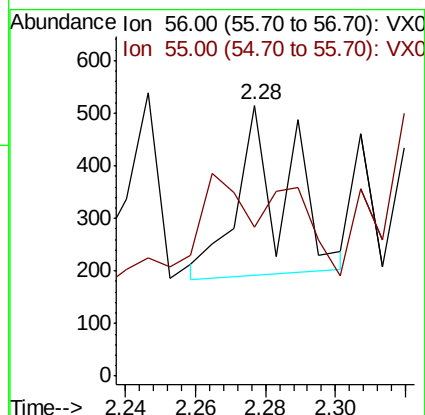
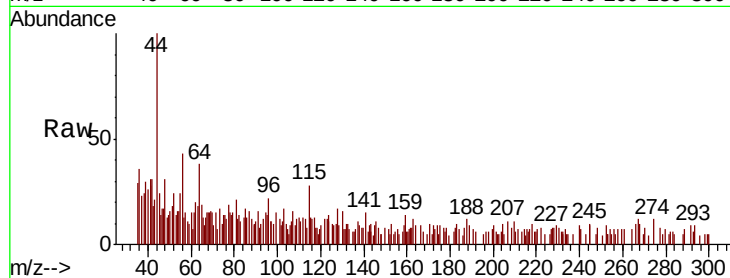
ClientSampled :

Tot Ion: 56 Resp: 321

Ion Ratio Lower Upper

56 100

55 48.9 55.0 82.4#



#15

Acrylonitrile

Concen: 0.320 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

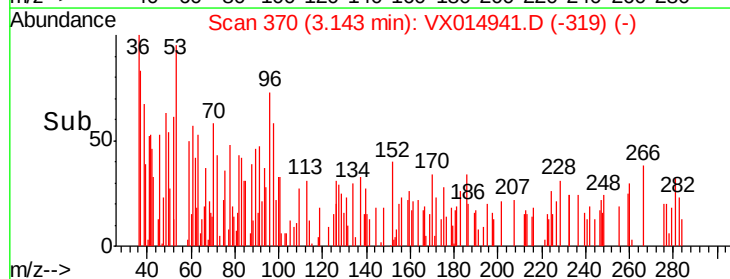
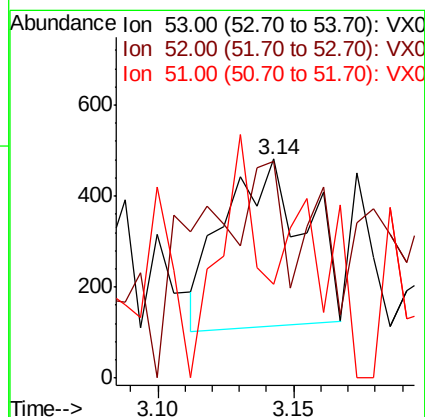
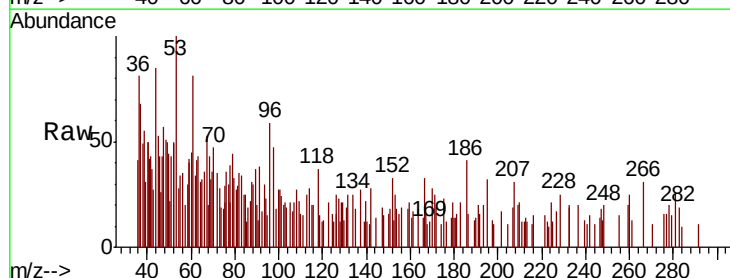
Tgt Ion: 53 Resp: 766

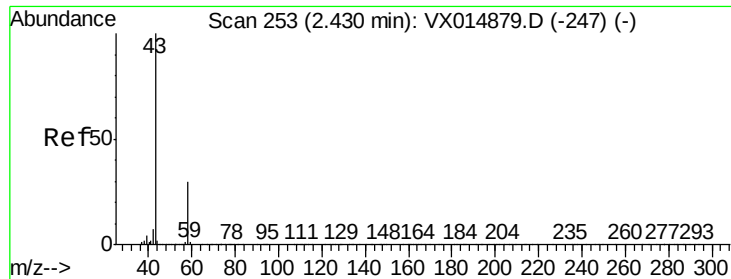
Ion Ratio Lower Upper

53 100

52 33.6 65.8 98.6#

51 71.3 29.1 43.7#

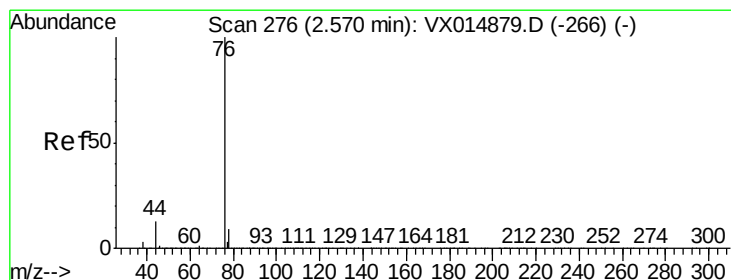
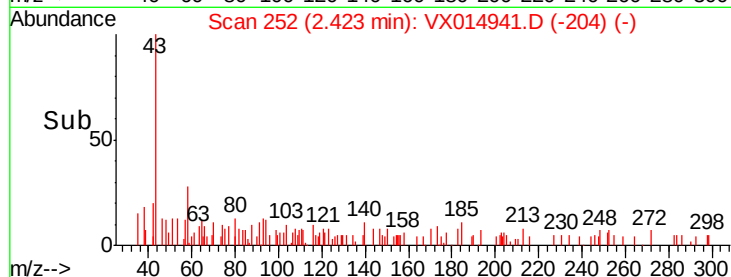
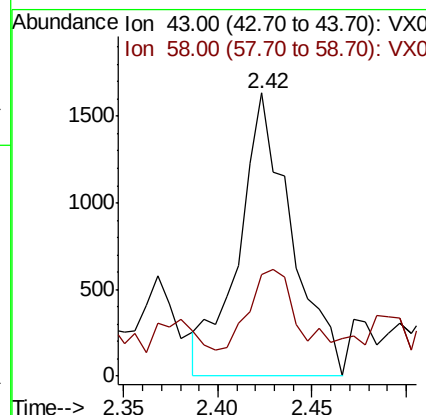
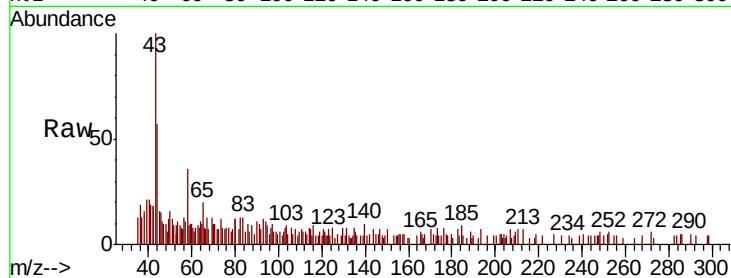




#16
Acetone
Concen: Below Cal
RT: 2.42 min Scan# 252
Delta R.T. -0.01 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

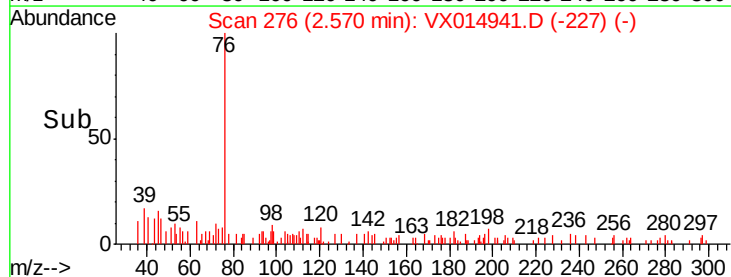
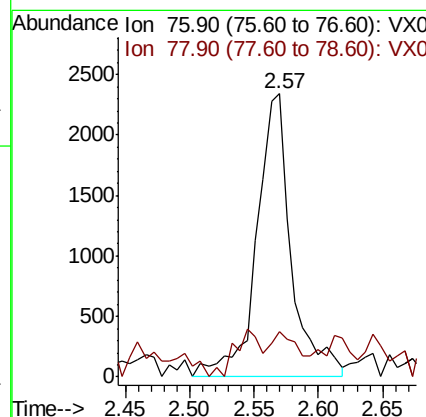
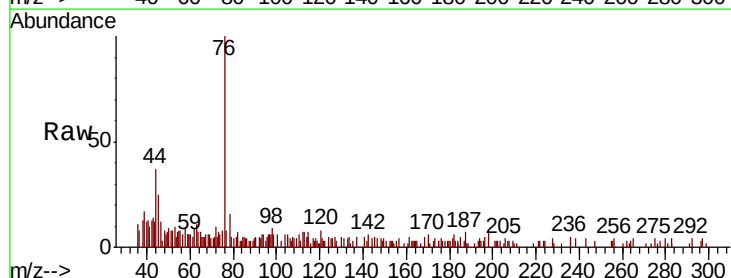
Instrument :
MSVOA_X
ClientSampleId :

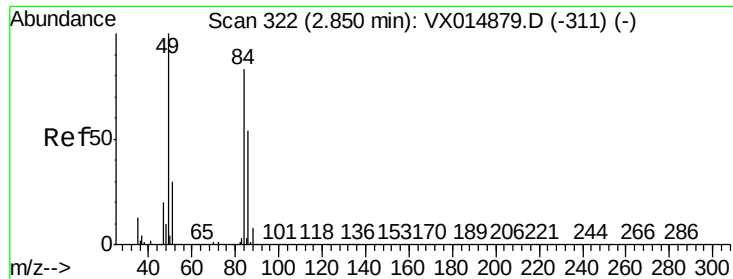
Tot Ion: 43 Resp: 3170
Ion Ratio Lower Upper
43 100
58 22.7 24.1 36.1#



#17
Carbon Disulfide
Concen: 0.359 ug/l
RT: 2.57 min Scan# 276
Delta R.T. -0.00 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

Tgt Ion: 76 Resp: 4357
Ion Ratio Lower Upper
76 100
78 12.2 7.4 11.0#

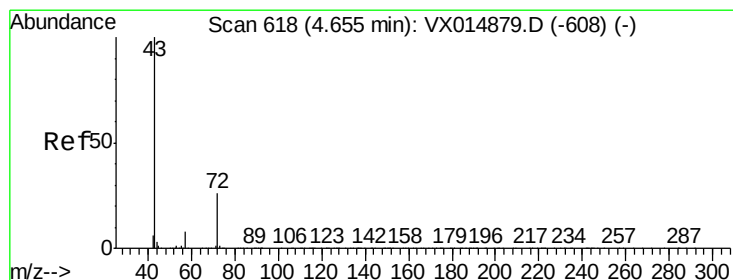
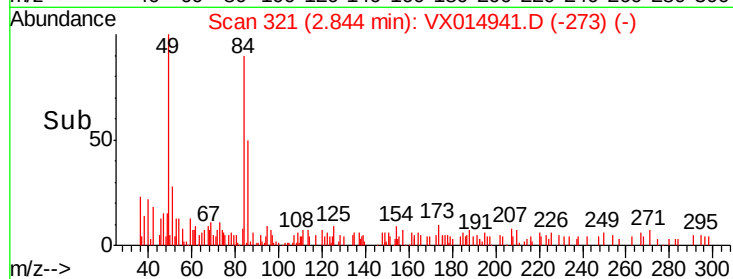
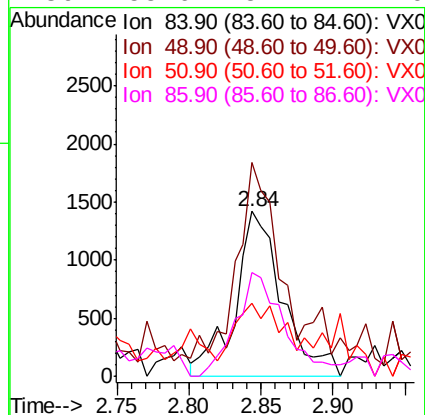
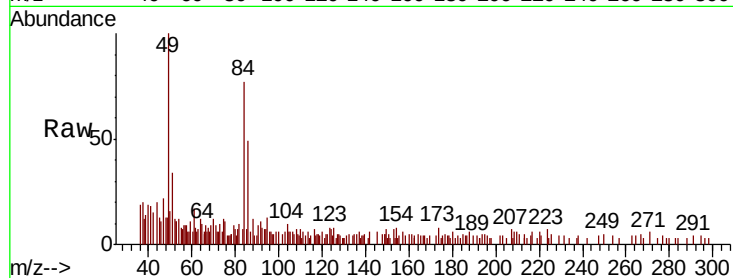




#20
Methylene Chloride
Concen: 0.626 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

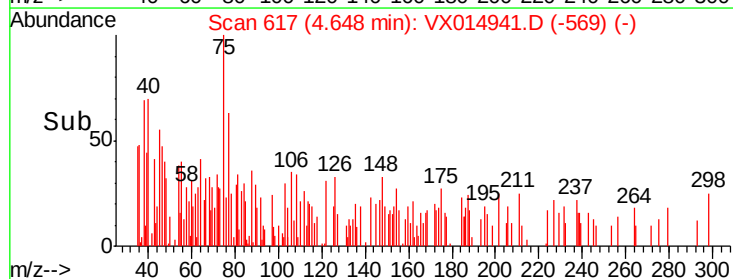
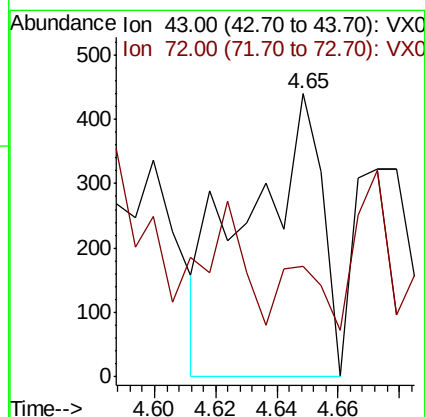
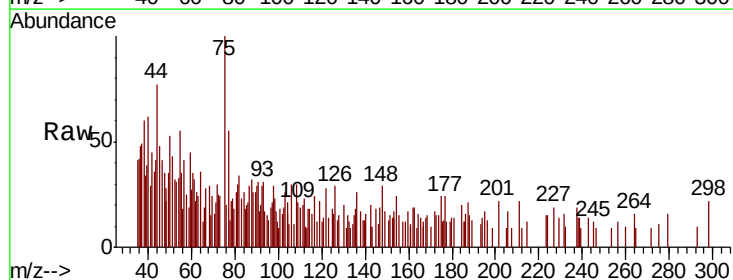
Instrument :
MSVOA_X
ClientSampled :

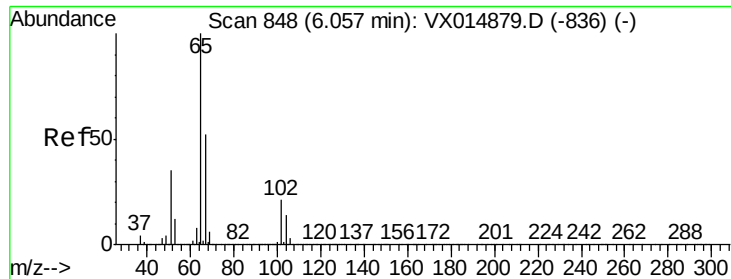
Tot Ion: 84 Resp: 3221
Ion Ratio Lower Upper
84 100
49 118.9 95.6 143.4
51 15.8 29.0 43.6#
86 55.6 51.4 77.0



#25
2-Butanone
Concen: 0.203 ug/l
RT: 4.65 min Scan# 617
Delta R.T. -0.01 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

Tgt Ion: 43 Resp: 741
Ion Ratio Lower Upper
43 100
72 54.9 21.0 31.6#

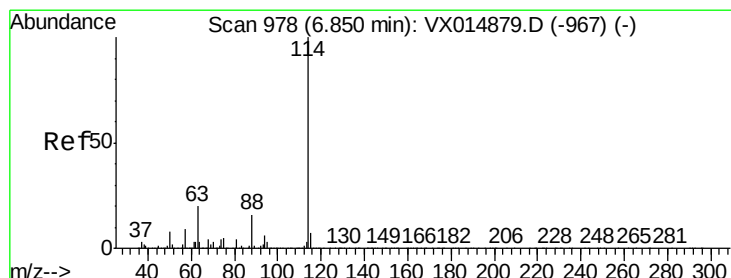
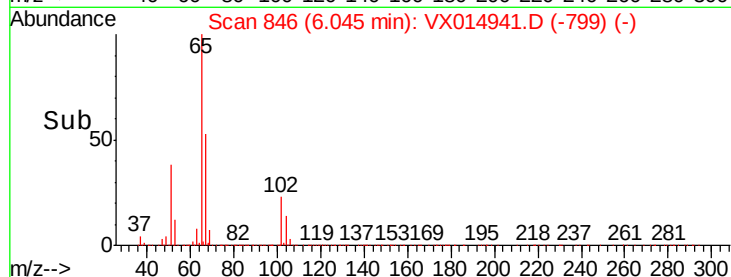
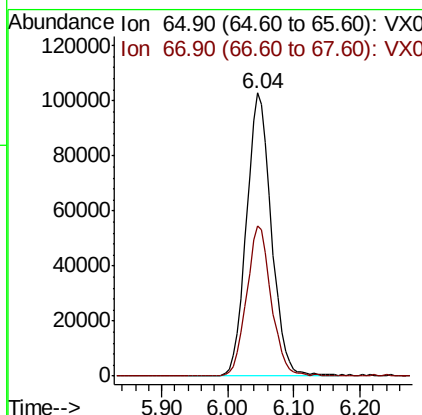
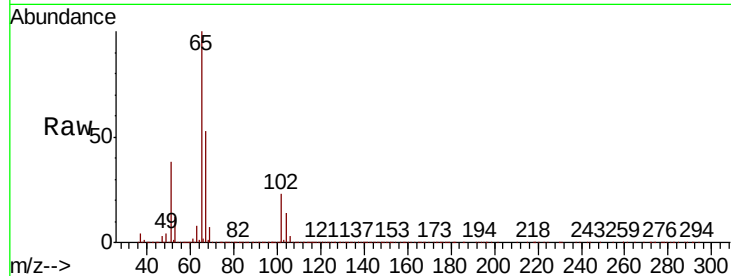




#33
 1,2-Dichloroethane-d4
 Concen: 50.383 ug/l
 RT: 6.04 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

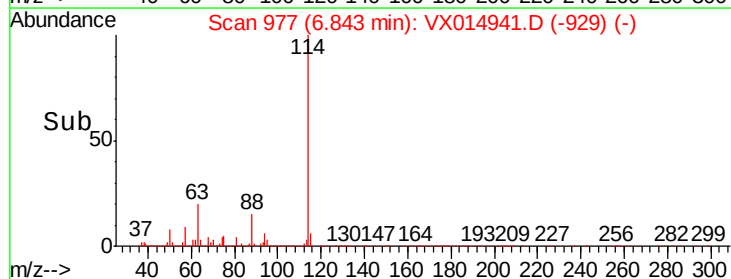
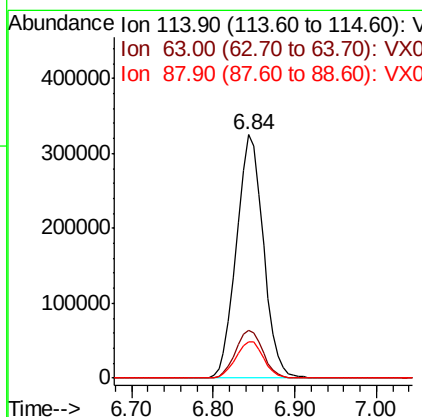
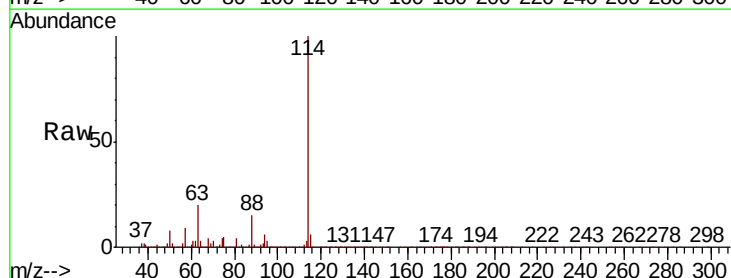
Instrument :
 MSVOA_X
 ClientSampled :

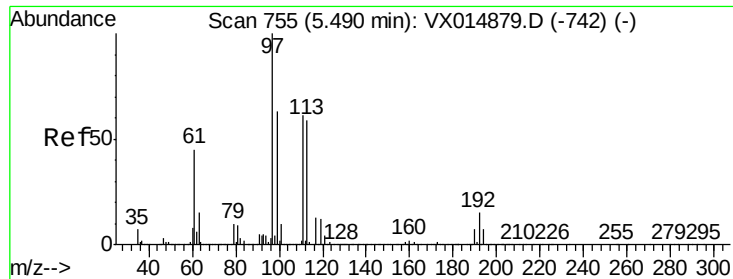
Tot Ion: 65 Resp: 269699
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

Tgt Ion: 114 Resp: 741135
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.2
 88 15.0 0.0 32.0

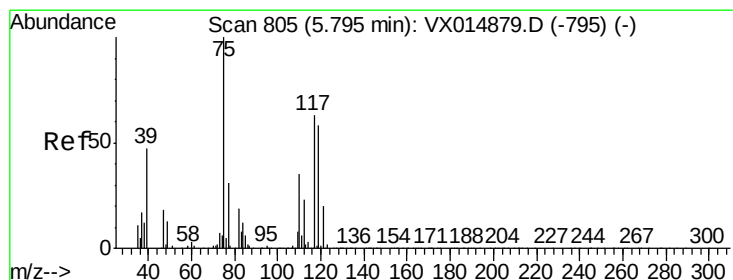
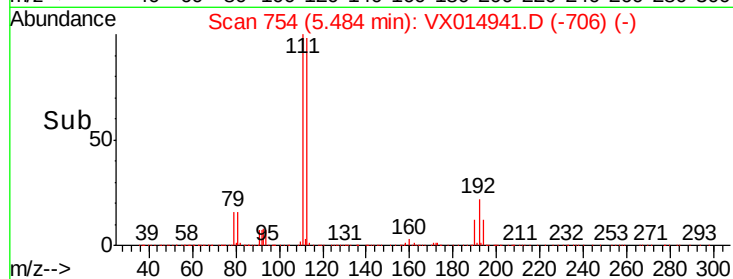
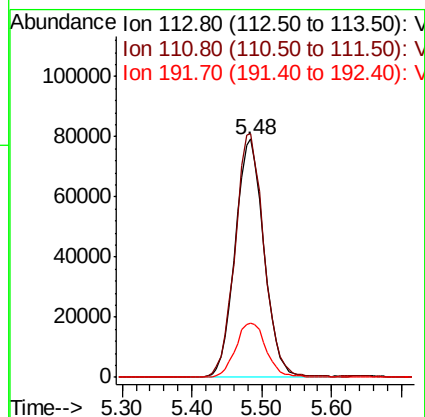
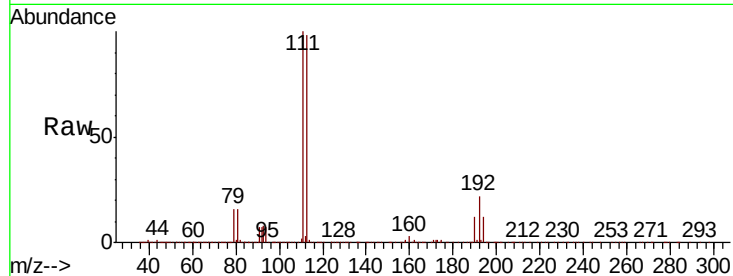




#35
 Dibromofluoromethane
 Concen: 49.655 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

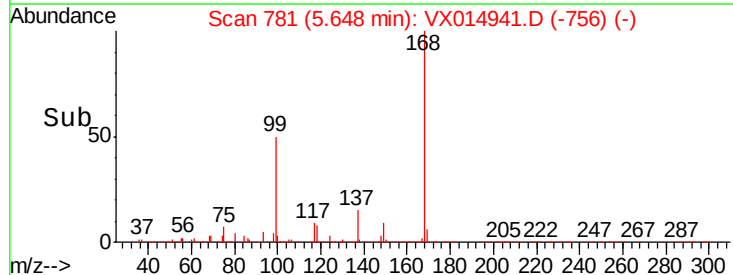
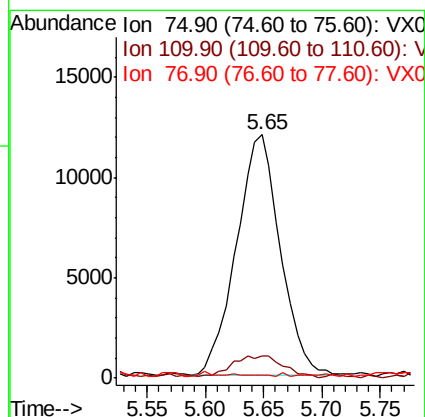
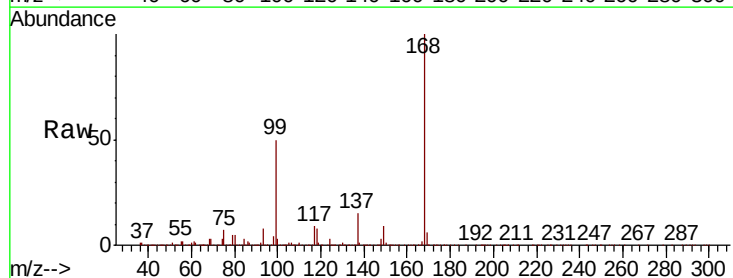
Instrument :
 MSVOA_X
 ClientSampled :

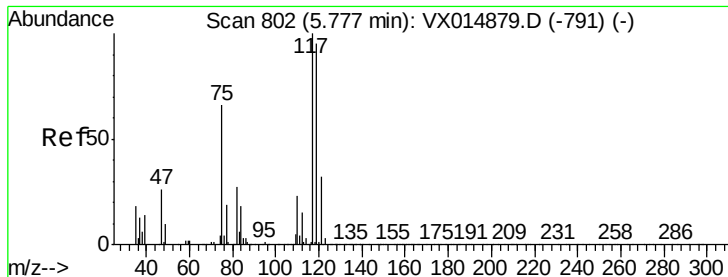
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	24.0	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.738 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.3	54.8#
77	0.2	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.394 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

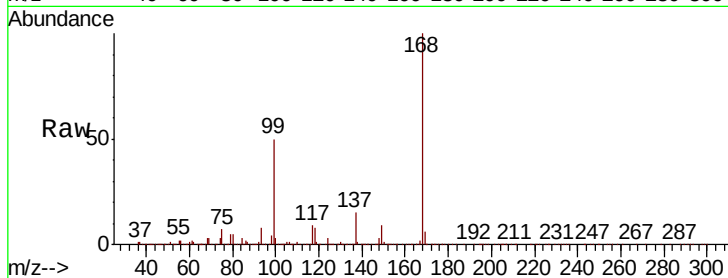
Tot Ion:117 Resp: 41308

Ion Ratio Lower Upper

117 100

119 5.2 76.0 114.0#

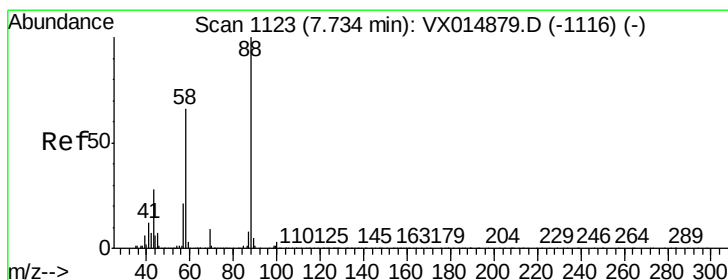
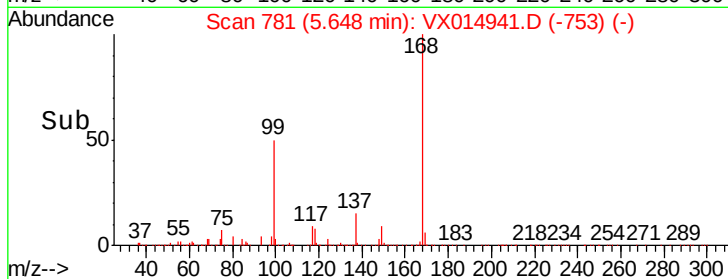
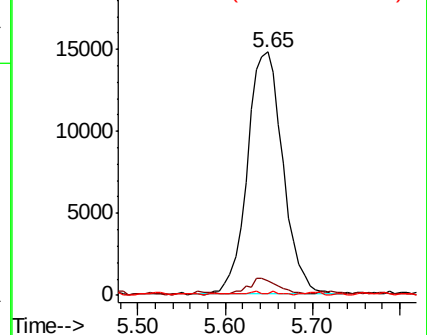
121 0.2 25.4 38.2#



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: 1.210 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

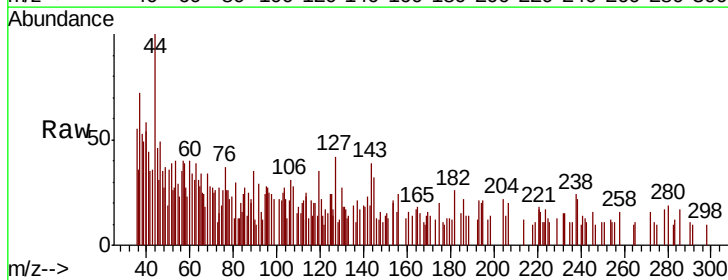
Tgt Ion: 88 Resp: 127

Ion Ratio Lower Upper

88 100

43 309.4 27.0 40.4#

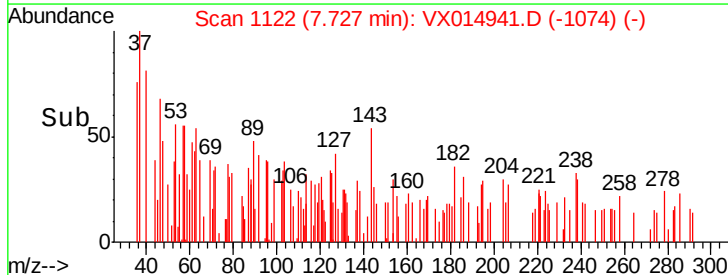
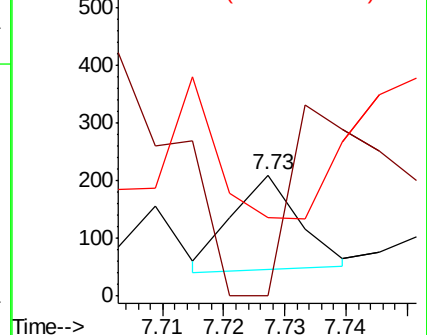
58 0.0 53.2 79.8#

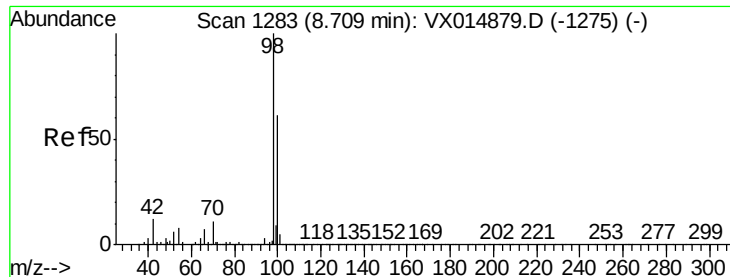


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

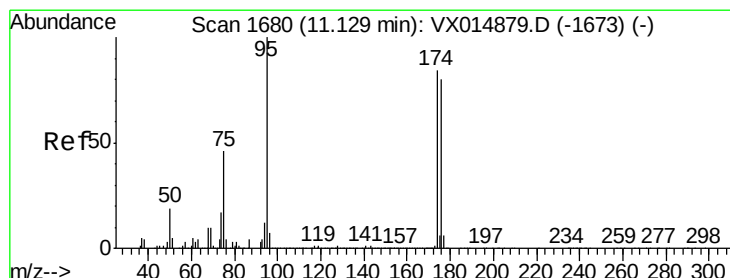
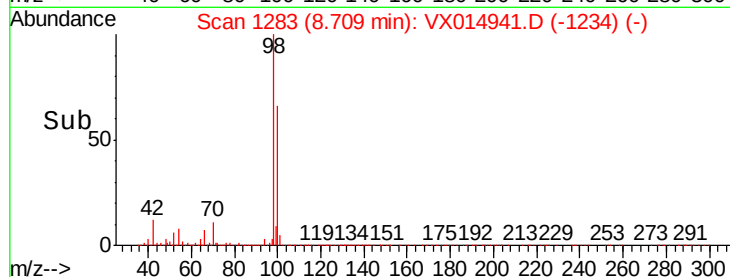
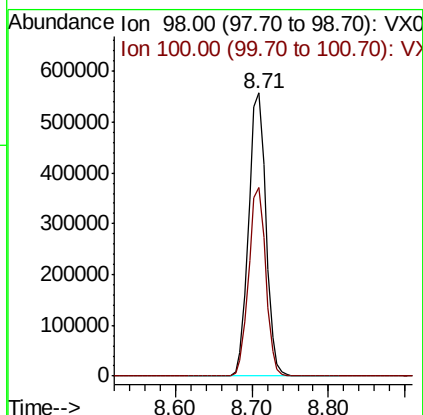
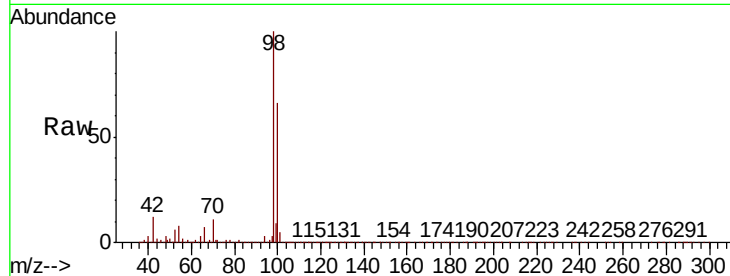




#50
Toluene-d8
Concen: 50.482 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

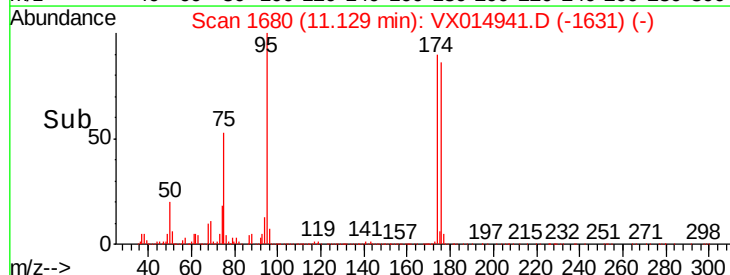
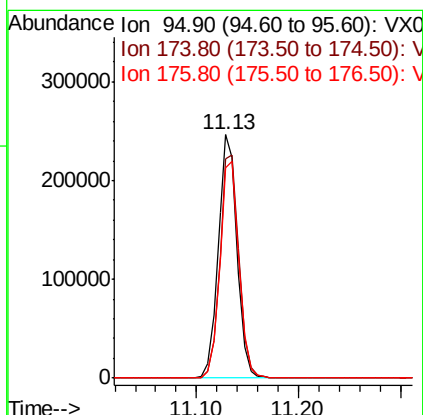
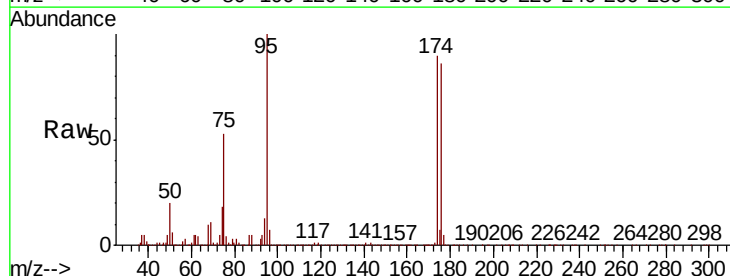
Instrument :
MSVOA_X
ClientSampled :

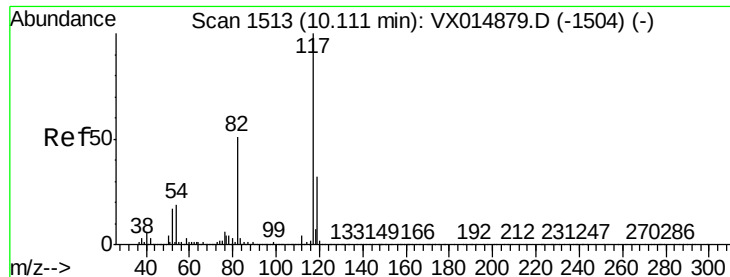
Tot Ion: 98 Resp: 877974
Ion Ratio Lower Upper
98 100
100 65.6 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 50.612 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

Tgt Ion: 95 Resp: 317087
Ion Ratio Lower Upper
95 100
174 93.2 0.0 183.0
176 90.4 0.0 178.0

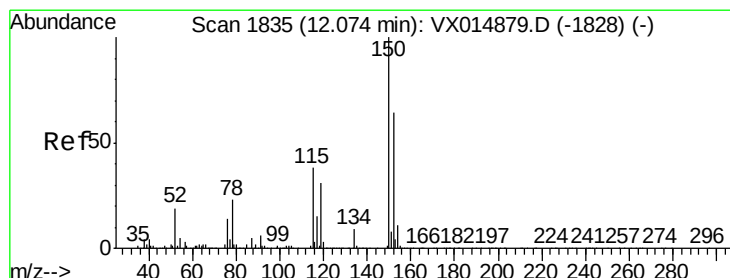
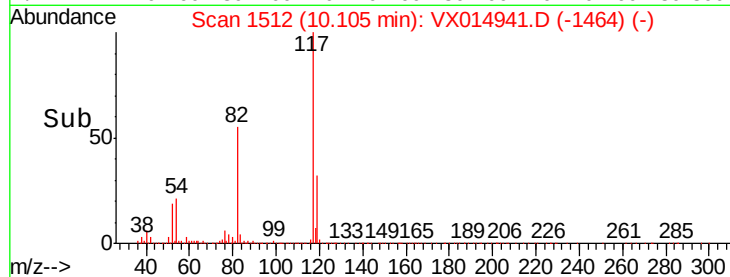
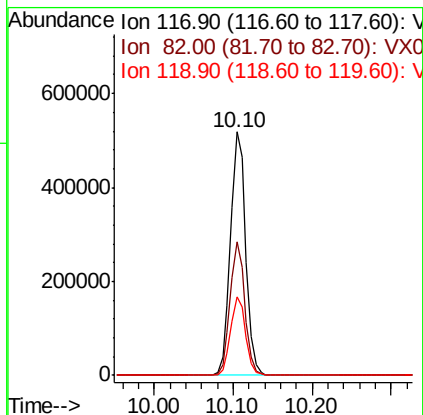
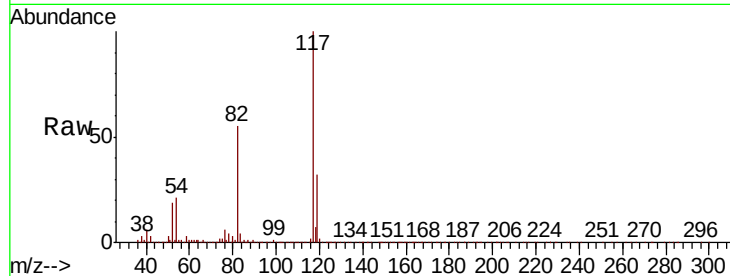




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

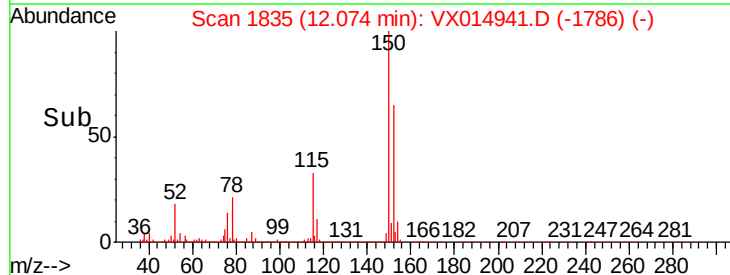
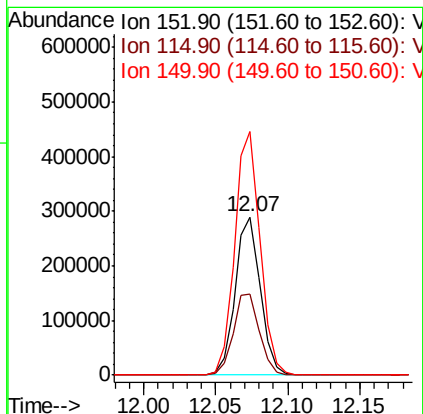
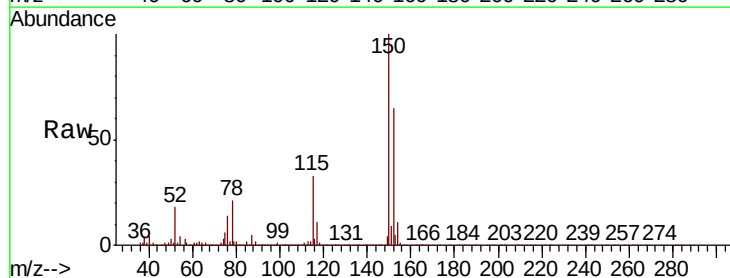
Instrument :
MSVOA_X
ClientSampleId :

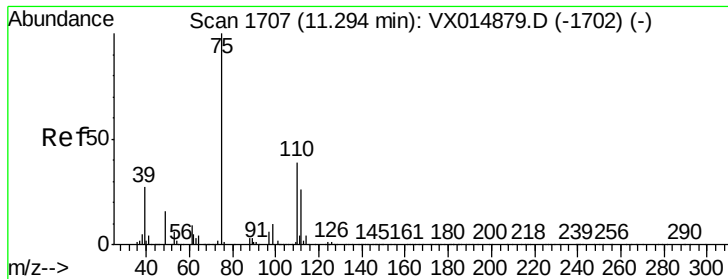
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	40.5	60.7
119	32.5	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014941.D
Acq: 14 Feb 2020 12:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.8	38.6	116.0
150	155.7	0.0	349.0





#76

1,2,3-Trichloropropane

Concen: 25.168 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

Instrument :

MSVOA_X

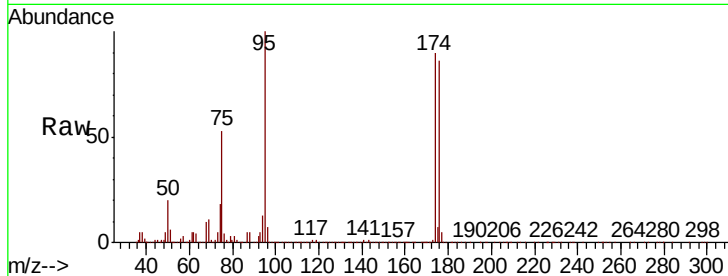
ClientSampled :

Tot Ion: 75 Resp: 160050

Ion Ratio Lower Upper

75 100

77 1.4 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

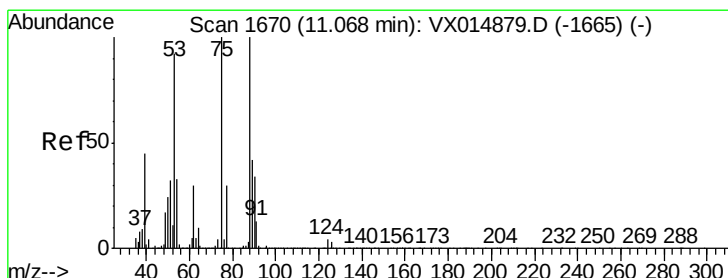
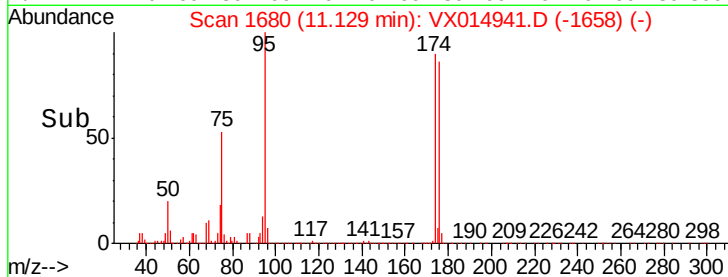
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.423 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014941.D

Acq: 14 Feb 2020 12:54

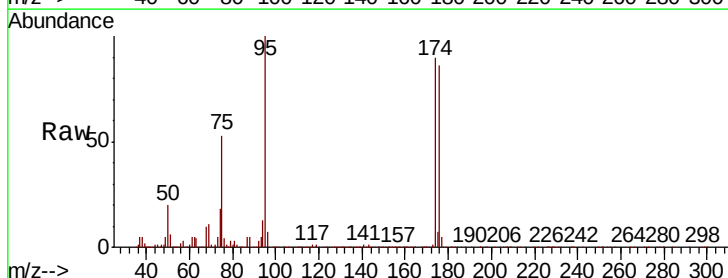
Tgt Ion: 75 Resp: 160050

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 35.8 53.6#



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

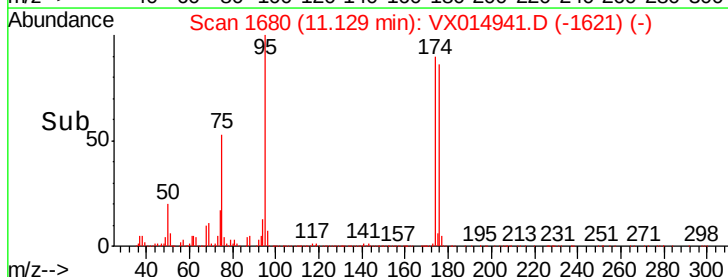
150000

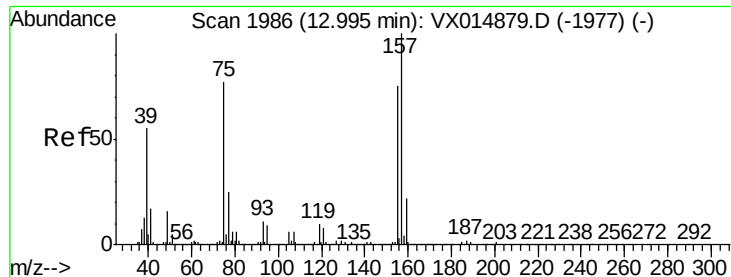
100000

50000

0

Time-->

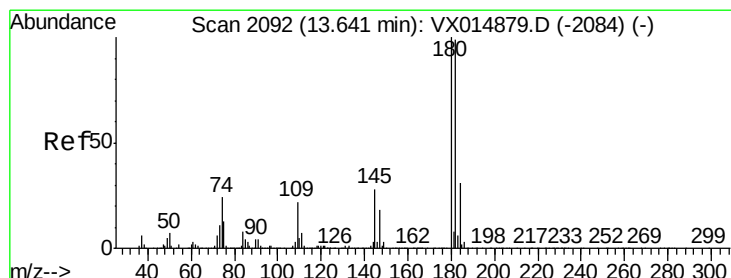
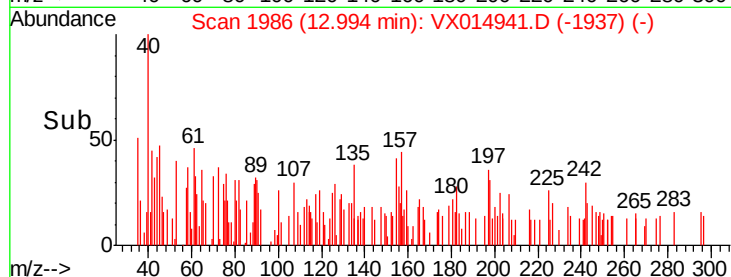
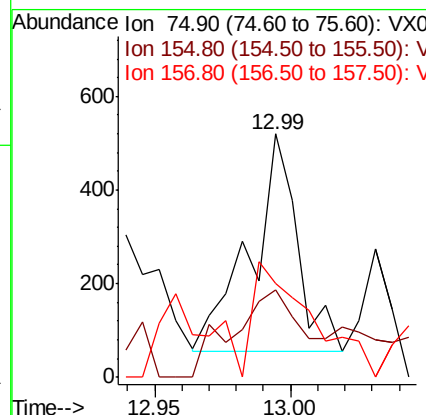
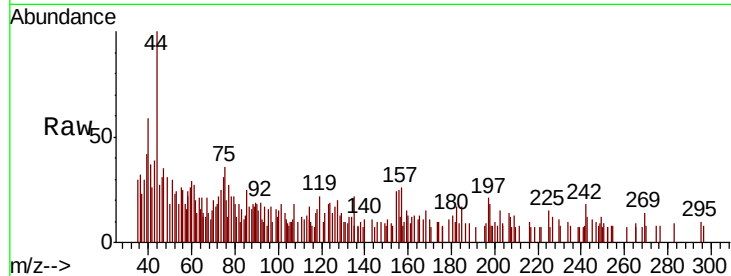




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.328 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

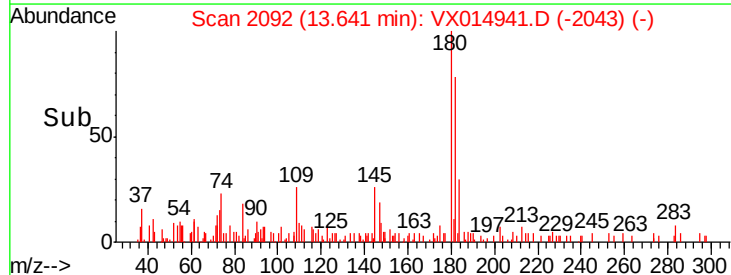
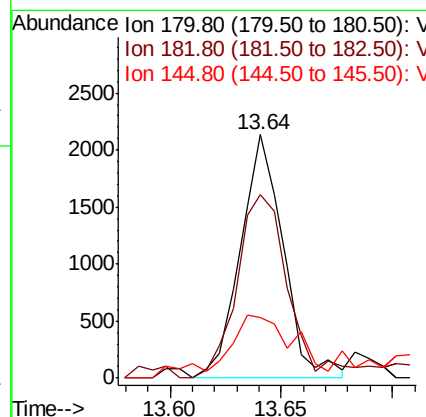
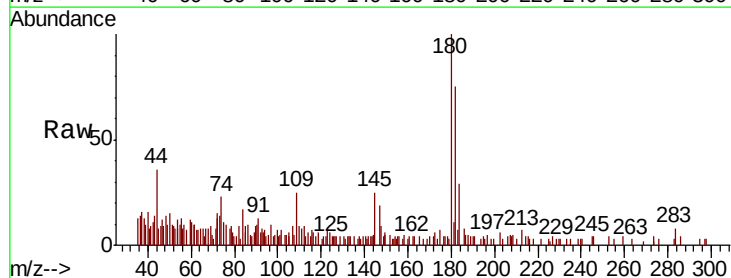
Instrument :
 MSVOA_X
 ClientSampleId :

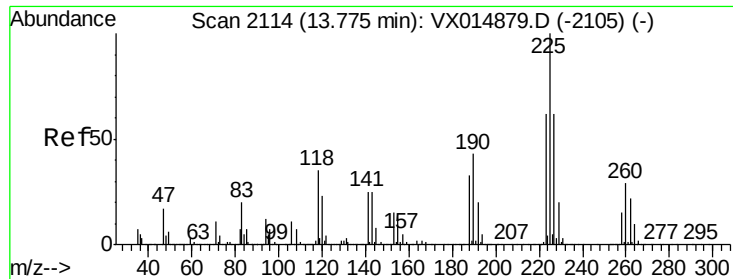
Tot Ion	Ratio	Lower	Upper
75	100		
155	61.1	48.6	145.9
157	65.8	62.0	186.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.359 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.7	48.4	145.3
145	41.5	14.1	42.4





#94

Hexachlorobutadiene

Concen: 0.383 ug/l

RT: 13.77 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VX014941.D

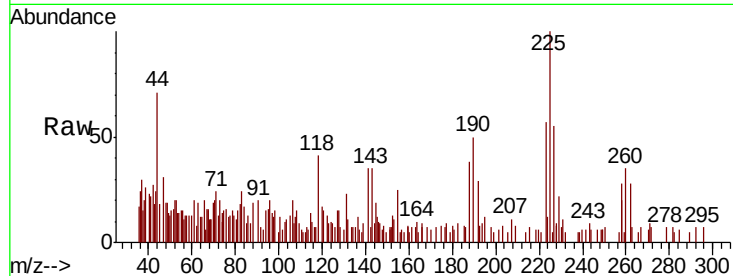
Acq: 14 Feb 2020 12:54

Instrument :

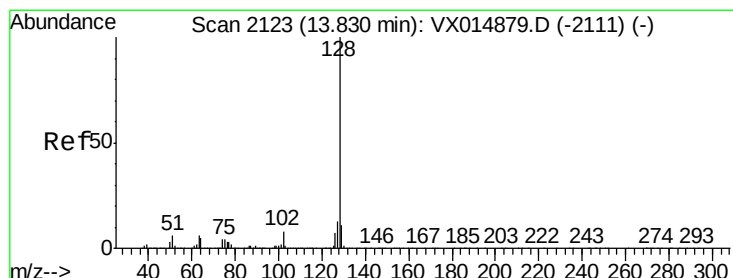
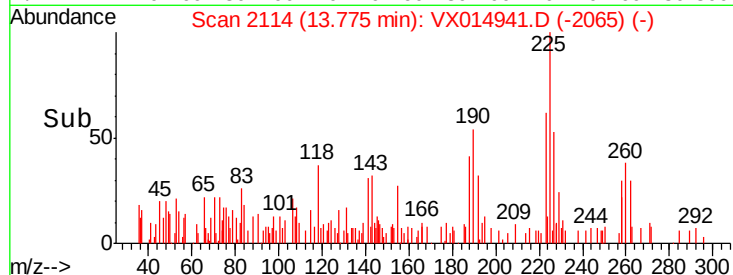
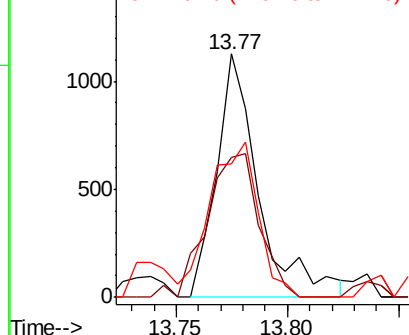
MSVOA_X

ClientSampled :

Tot Ion:	225	Resp:	1479
Ion	Ratio	Lower	Upper
225	100		
223	73.6	31.1	93.2
227	73.1	30.9	92.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.302 ug/l

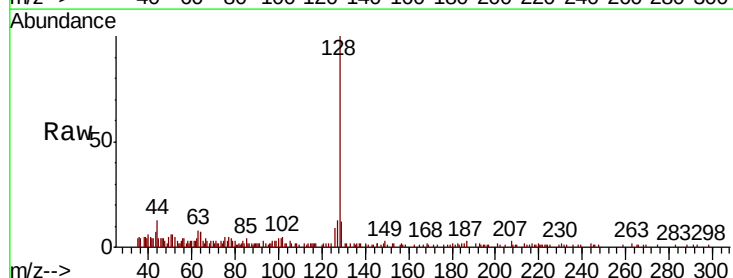
RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

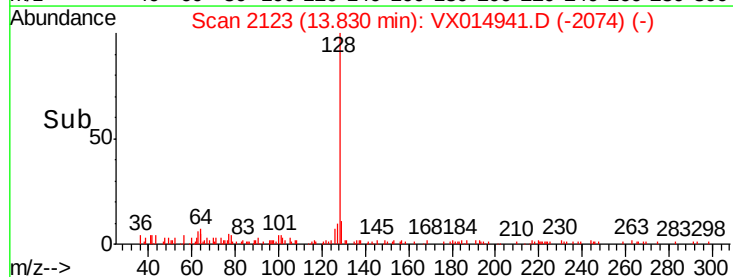
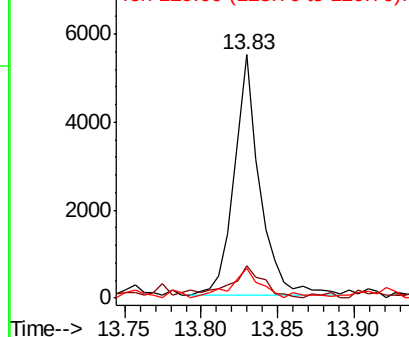
Lab File: VX014941.D

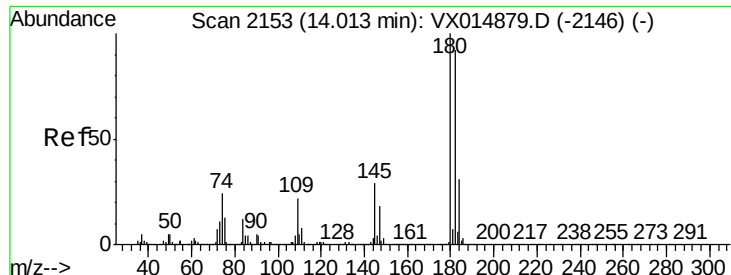
Acq: 14 Feb 2020 12:54

Tgt Ion:	128	Resp:	6412
Ion	Ratio	Lower	Upper
128	100		
127	18.5	10.4	15.6#
129	13.8	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

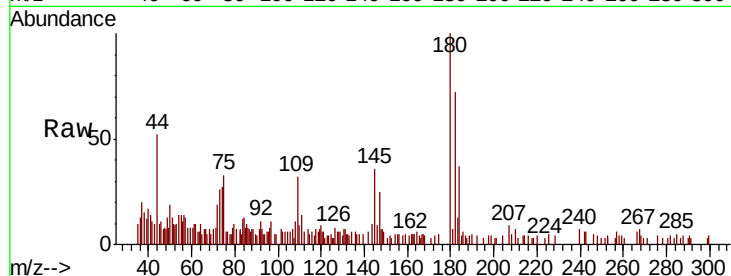




#96
 1,2,3-Trichlorobenzene
 Concen: 0.341 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX014941.D
 Acq: 14 Feb 2020 12:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.6	47.5	142.6
145	41.4	14.5	43.5



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

