

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021020\
 Data File : VX014883.D
 Acq On : 10 Feb 2020 13:02
 Operator : JC/SP
 Sample : VX0210WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBL01

Quant Time: Feb 11 06:42:41 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	471313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	725535	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	662088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	308381	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	265904	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	5.48	113	219660	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
50) Toluene-d8	8.71	98	846415	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	11.13	95	298005	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	

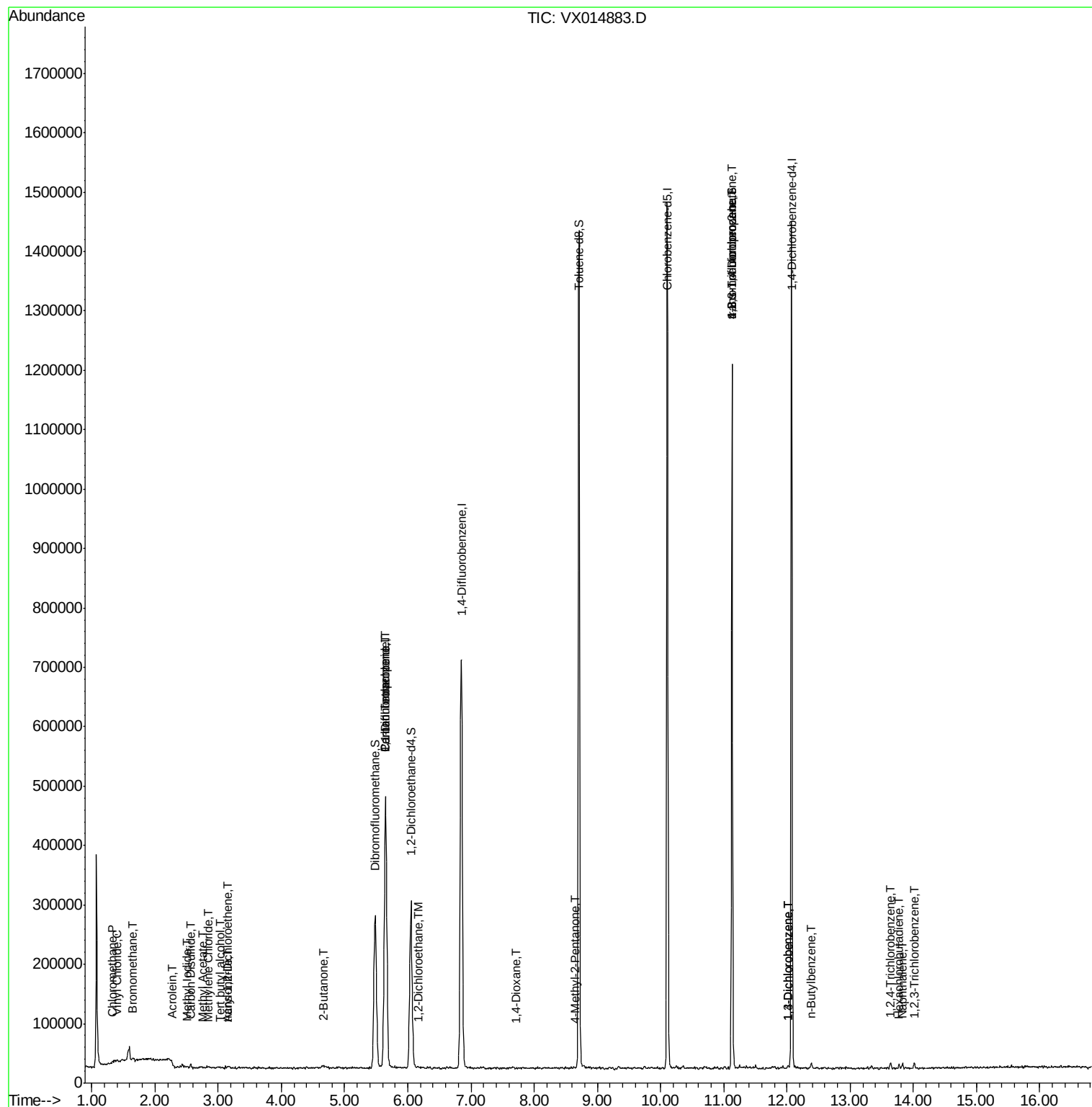
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1351	0.267	ug/l	96
4) Vinyl Chloride	1.41	62	1101	0.202	ug/l	92
5) Bromomethane	1.65	94	3353	0.950	ug/l	82
10) Methyl Iodide	2.51	142	2805	4.888	ug/l #	85
11) Tert butyl alcohol	3.03	59	529	0.563	ug/l #	1
13) Acrolein	2.28	56	495	0.692	ug/l #	74
15) Acrylonitrile	3.14	53	1257	0.528	ug/l #	67
16) Acetone	2.43	43	6270	Below Cal	#	84
17) Carbon Disulfide	2.56	76	6987	0.579	ug/l	99
18) Methyl Acetate	2.75	43	1092	0.204	ug/l #	51
20) Methylene Chloride	2.84	84	1333	0.261	ug/l #	71
21) trans-1,2-Dichloroethene	3.15	96	1774	0.372	ug/l #	84
25) 2-Butanone	4.66	43	737	0.204	ug/l	90
36) 1,1-Dichloropropene	5.65	75	32801	5.054	ug/l #	51
38) Carbon Tetrachloride	5.64	117	40709	6.436	ug/l #	16
42) 1,2-Dichloroethane	6.17	62	1507	0.215	ug/l #	53
49) 1,4-Dioxane	7.73	88	252	2.453	ug/l #	25
51) 4-Methyl-2-Pentanone	8.64	43	1685	0.250	ug/l #	82
76) 1,2,3-Trichloropropane	11.13	75	145863	26.157	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	145863	66.953	ug/l #	12
87) 1,3-Dichlorobenzene	12.02	146	2440	0.252	ug/l	82
88) 1,4-Dichlorobenzene	12.02	146	2440	0.247	ug/l	83
89) n-Butylbenzene	12.39	91	3258	0.205	ug/l	90
93) 1,2,4-Trichlorobenzene	13.64	180	3214	0.459	ug/l	95
94) Hexachlorobutadiene	13.78	225	945	0.279	ug/l	83
95) Naphthalene	13.83	128	6026	0.323	ug/l #	79
96) 1,2,3-Trichlorobenzene	14.01	180	2942	0.434	ug/l	86

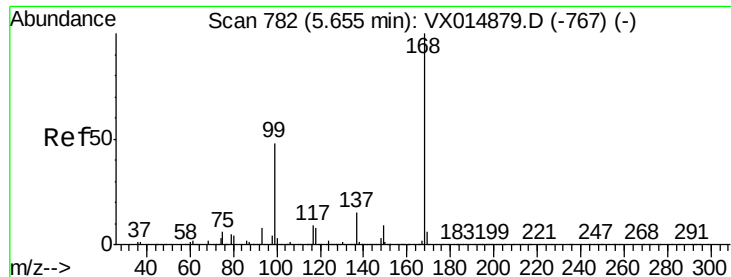
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

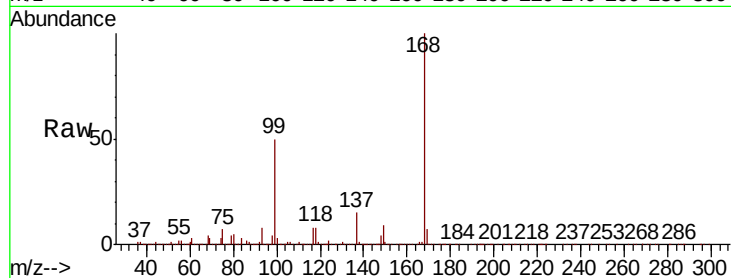
VX0210WBL01

Tot Ion:168 Resp: 471313

Ion Ratio Lower Upper

168 100

99 49.7 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

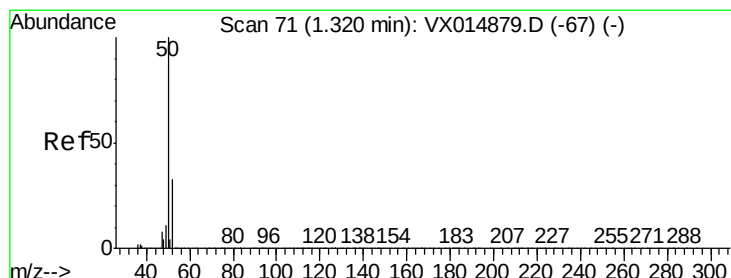
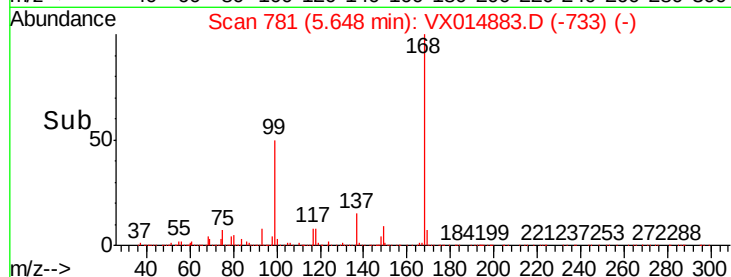
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.267 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014883.D

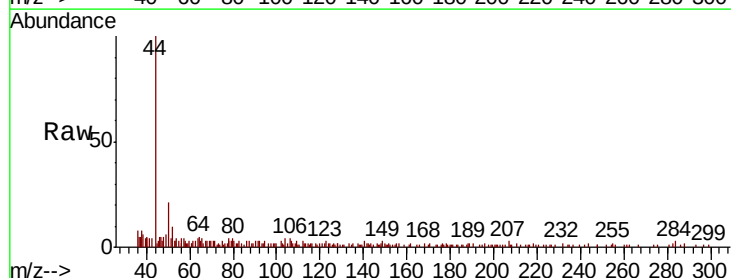
Acq: 10 Feb 2020 13:02

Tgt Ion: 50 Resp: 1351

Ion Ratio Lower Upper

50 100

52 35.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

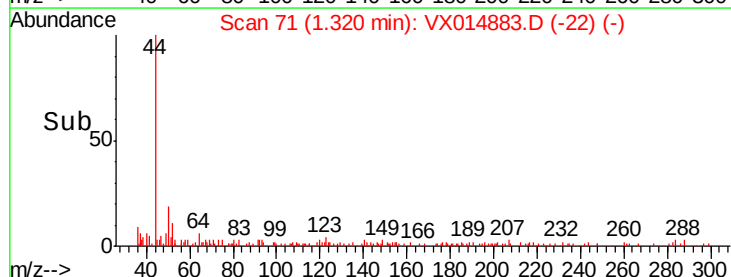
1.32

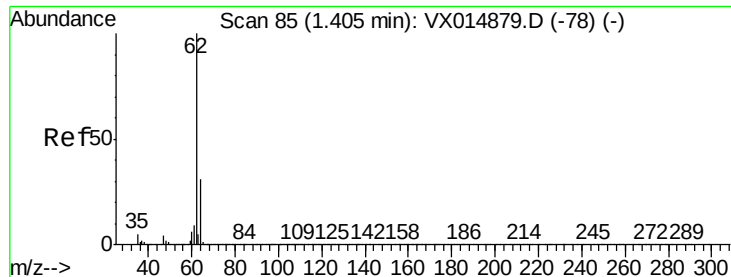
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.202 ug/l

RT: 1.41 min Scan# 85

Delta R.T. -0.00 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

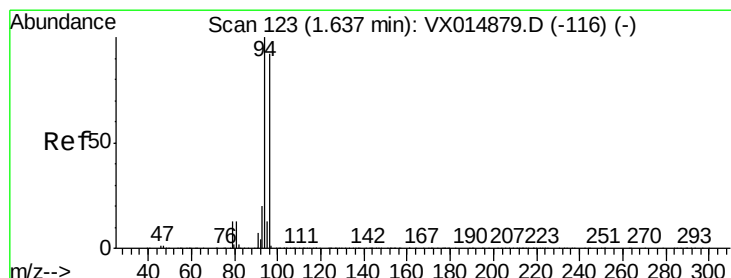
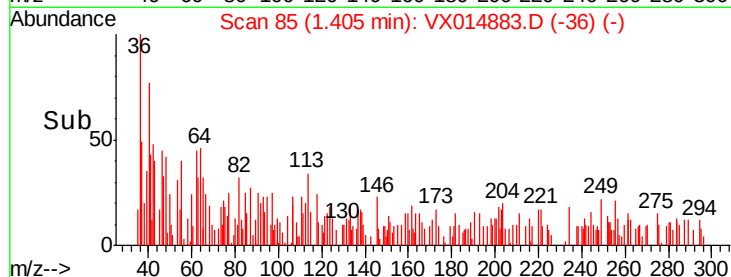
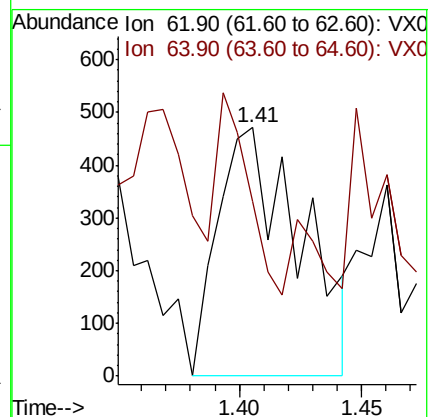
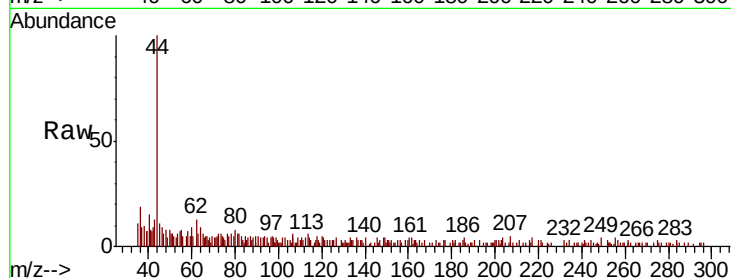
VX0210WBL01

Tot Ion: 62 Resp: 1101

Ion Ratio Lower Upper

62 100

64 35.2 24.8 37.2



#5

Bromomethane

Concen: 0.950 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX014883.D

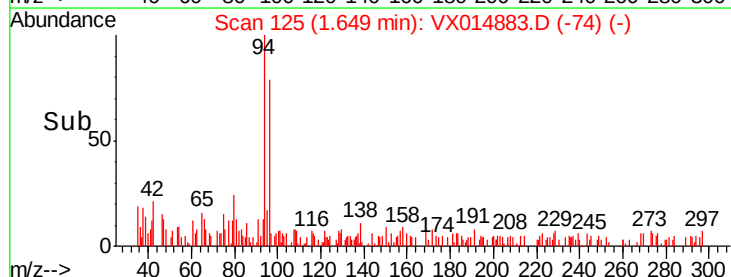
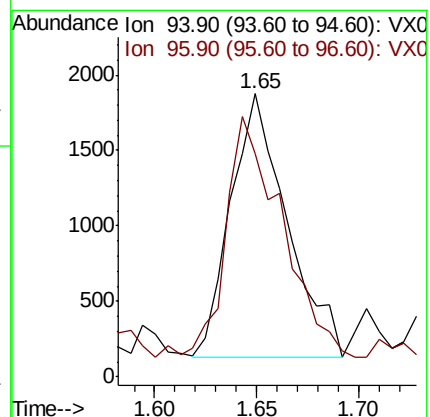
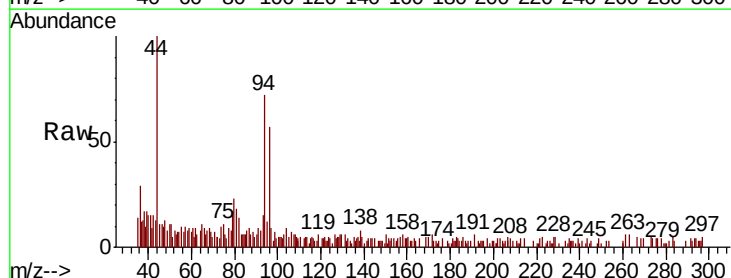
Acq: 10 Feb 2020 13:02

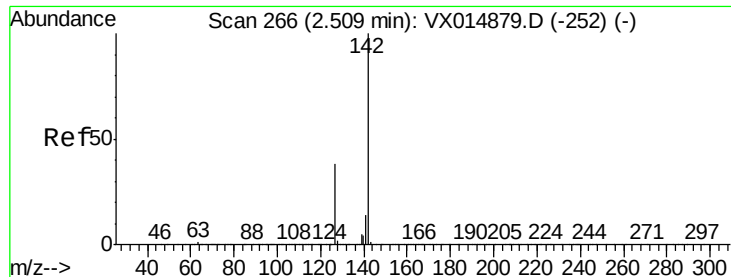
Tgt Ion: 94 Resp: 3353

Ion Ratio Lower Upper

94 100

96 74.8 73.7 110.5

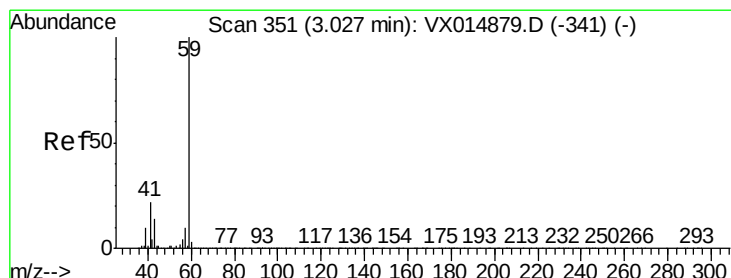
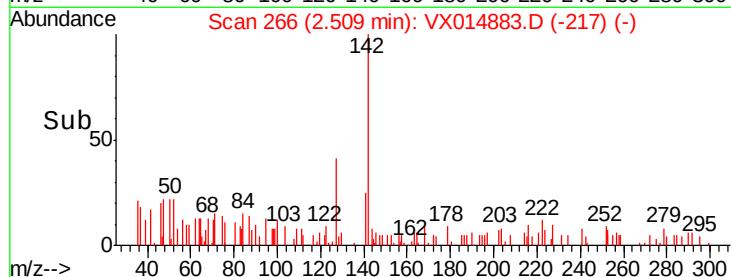
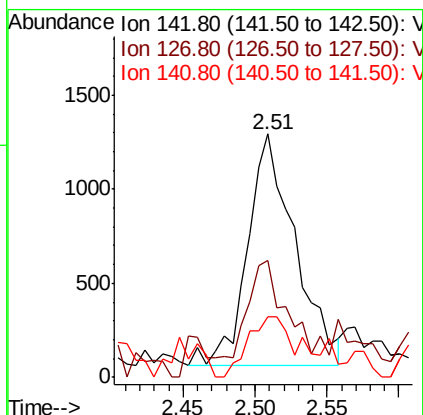
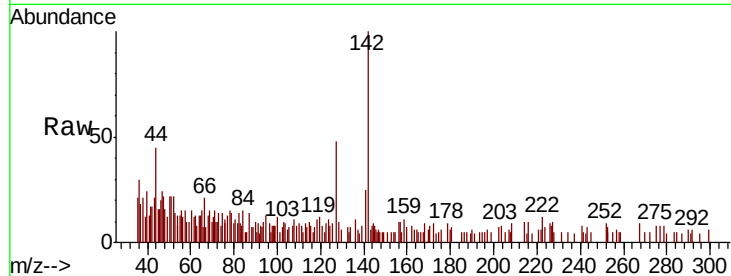




#10
Methvl Iodide
Concen: 4.888 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

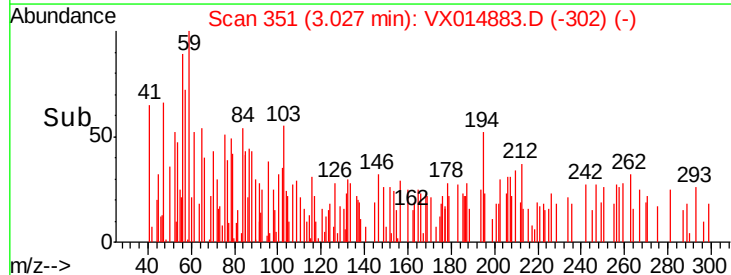
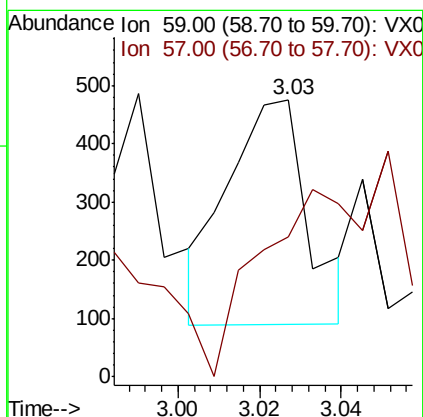
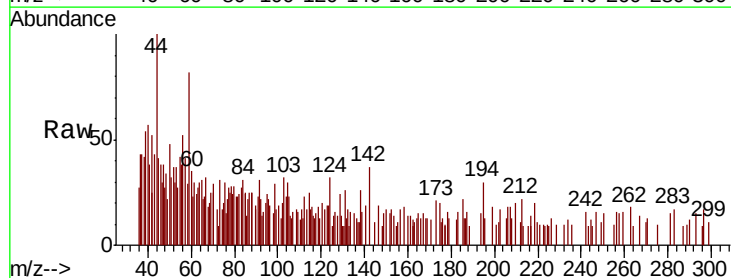
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

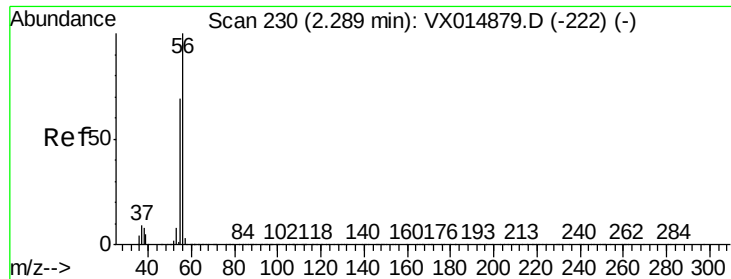
Tot Ion:142 Resp: 2805
Ion Ratio Lower Upper
142 100
127 34.0 31.1 46.7
141 27.9 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.563 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion: 59 Resp: 529
Ion Ratio Lower Upper
59 100
57 104.5 8.2 12.4#





#13

Acrolein

Concen: 0.692 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

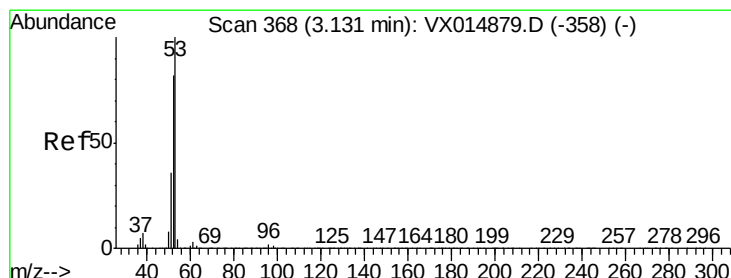
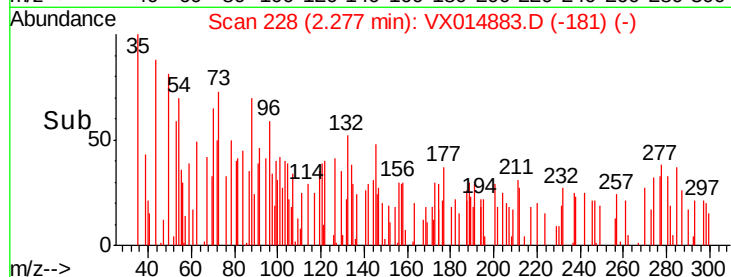
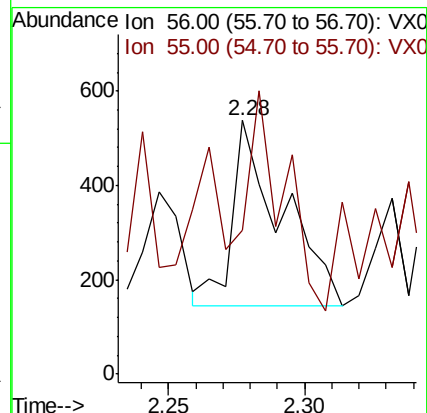
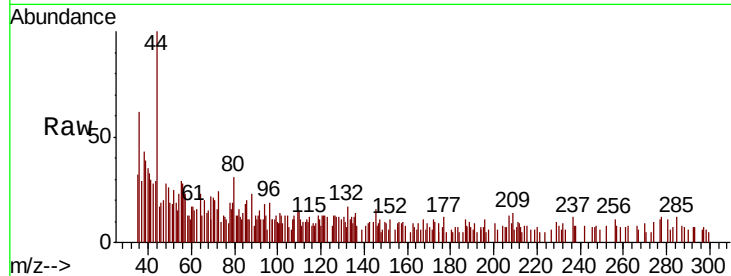
VX0210WBL01

Tot Ion: 56 Resp: 495

Ion Ratio Lower Upper

56 100

55 89.5 55.0 82.4#



#15

Acrylonitrile

Concen: 0.528 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

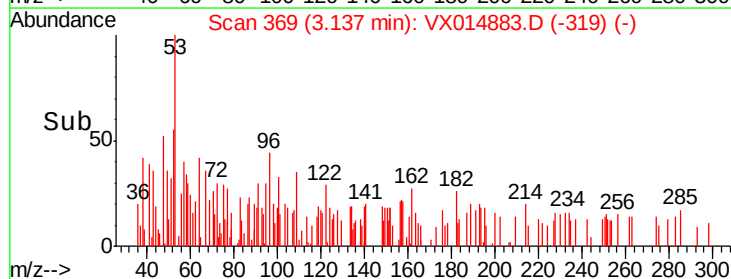
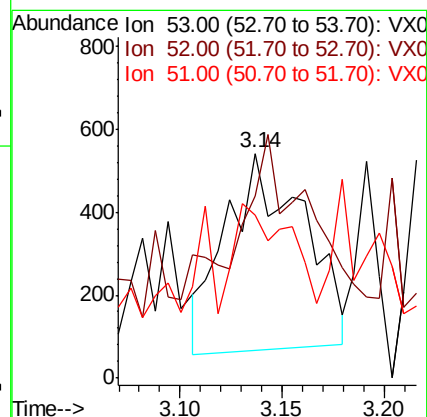
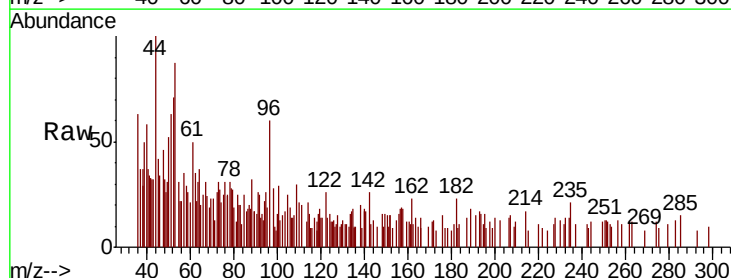
Tgt Ion: 53 Resp: 1257

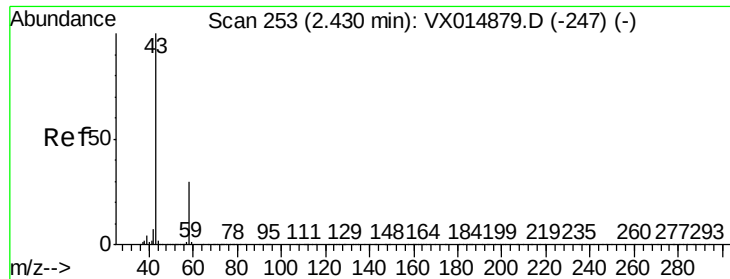
Ion Ratio Lower Upper

53 100

52 109.8 65.8 98.6#

51 58.9 29.1 43.7#

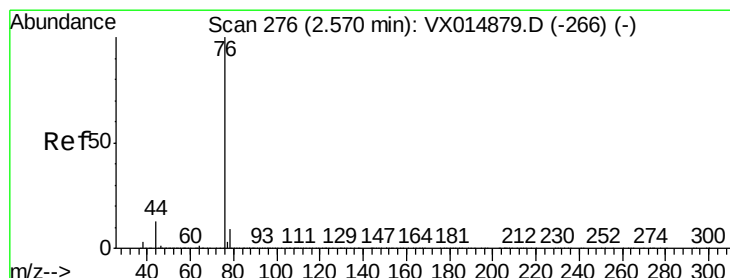
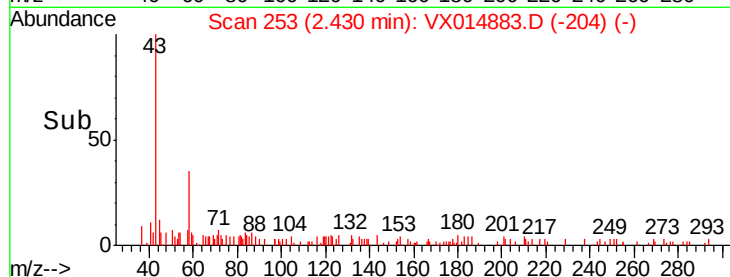
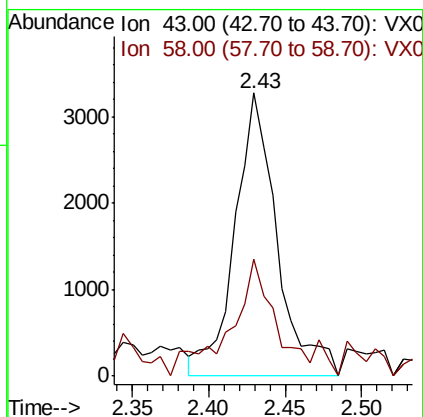
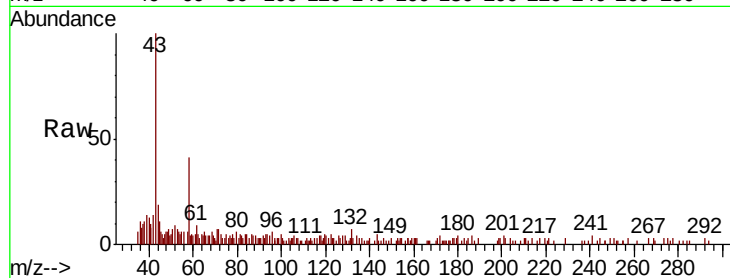




#16
Acetone
Concen: Below Cal
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

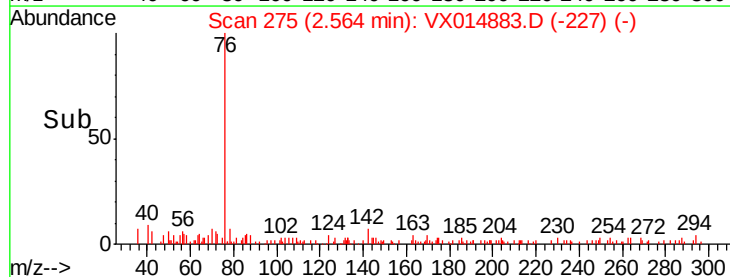
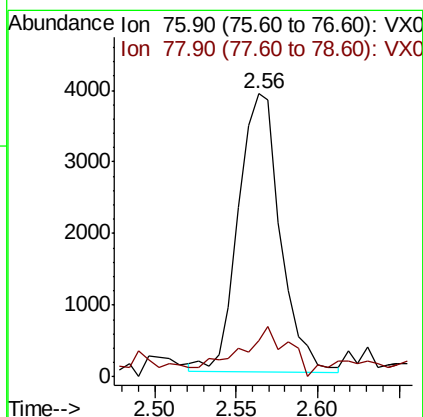
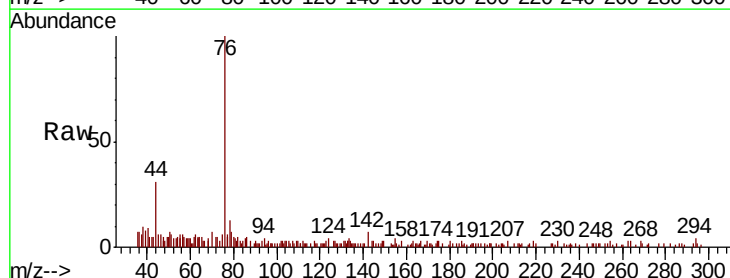
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

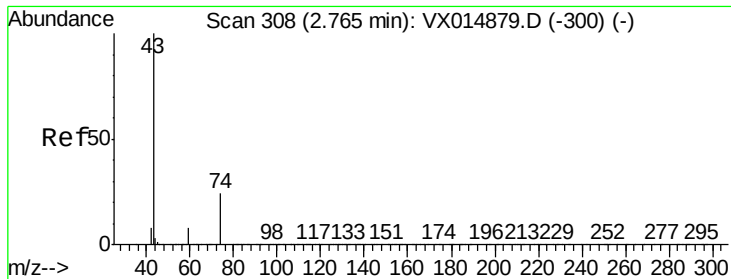
Tot Ion: 43 Resp: 6270
Ion Ratio Lower Upper
43 100
58 38.9 24.1 36.1#



#17
Carbon Disulfide
Concen: 0.579 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.01 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion: 76 Resp: 6987
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.0

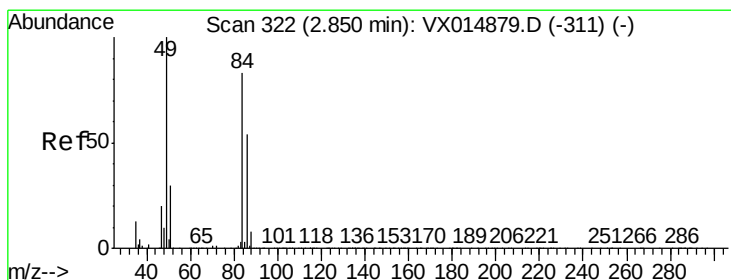
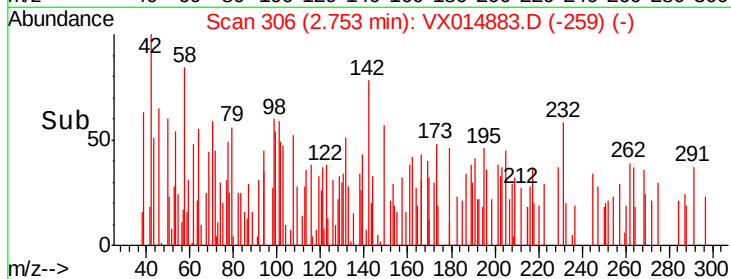
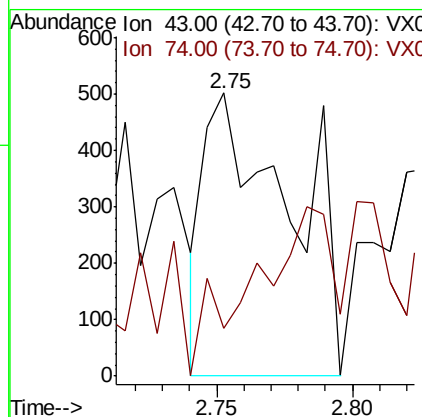
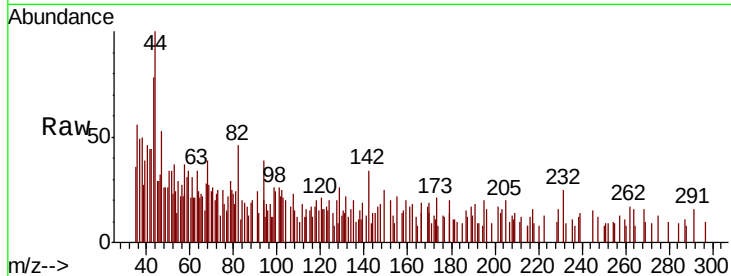




#18
Methyl Acetate
Concen: 0.204 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.01 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

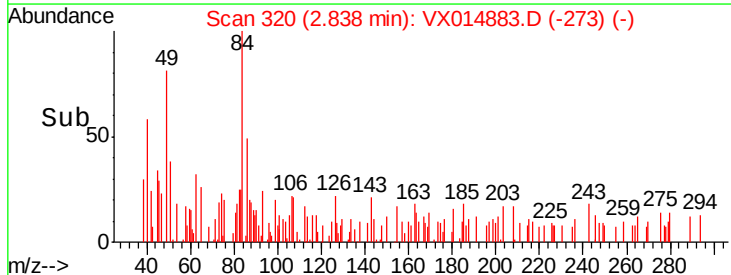
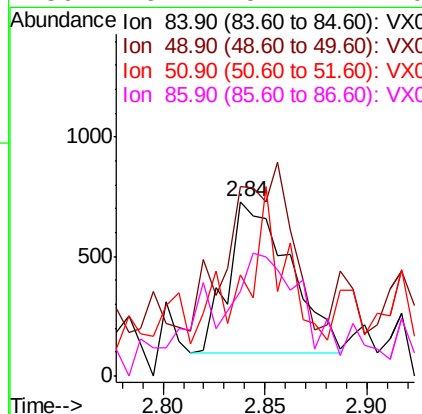
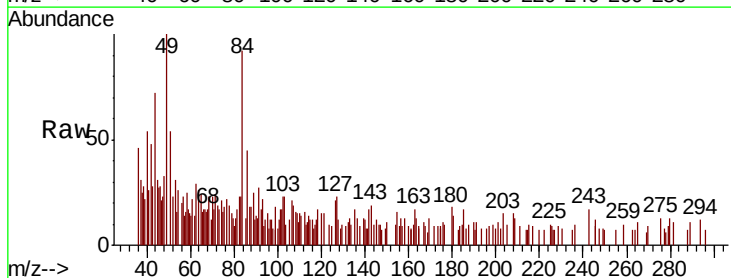
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MSVOA_X
ClientSampled :
VX0210WBL01

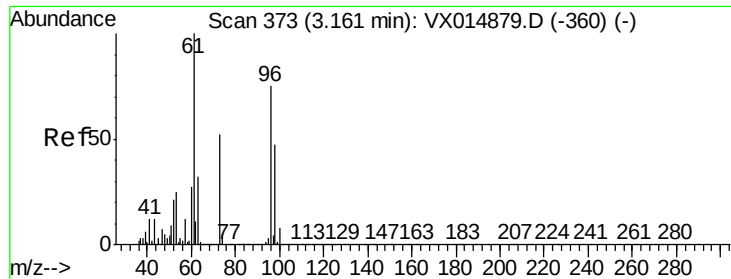
Tot Ion: 43 Resp: 1092
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#20
Methylene Chloride
Concen: 0.261 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion: 84 Resp: 1333
Ion Ratio Lower Upper
84 100
49 94.8 95.6 143.4#
51 46.0 29.0 43.6#
86 25.2 51.4 77.0#





#21

trans-1,2-Dichloroethene

Concen: 0.372 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

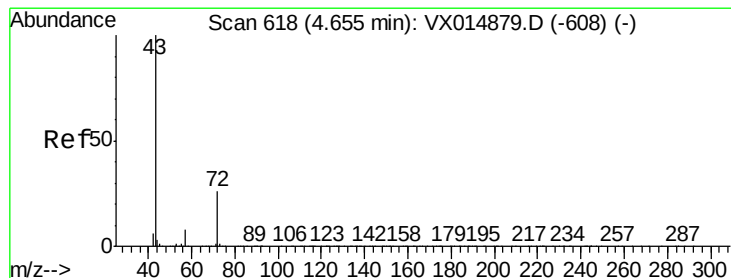
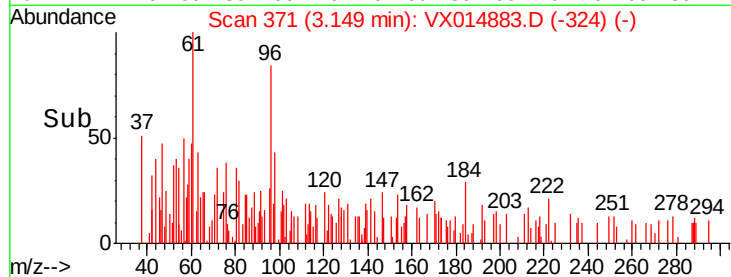
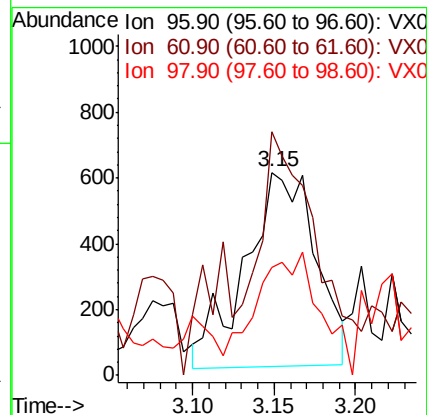
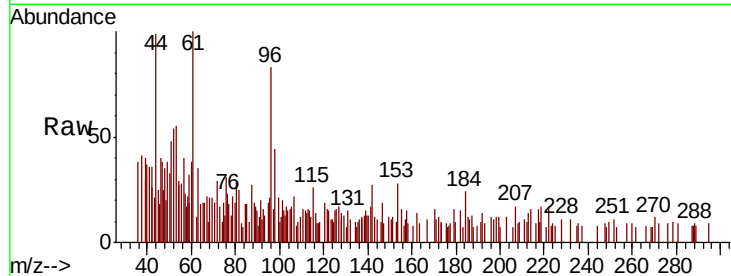
Tot Ion: 96 Resp: 1774

Ion Ratio Lower Upper

96 100

61 123.4 106.9 160.3

98 38.2 50.7 76.1#



#25

2-Butanone

Concen: 0.204 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014883.D

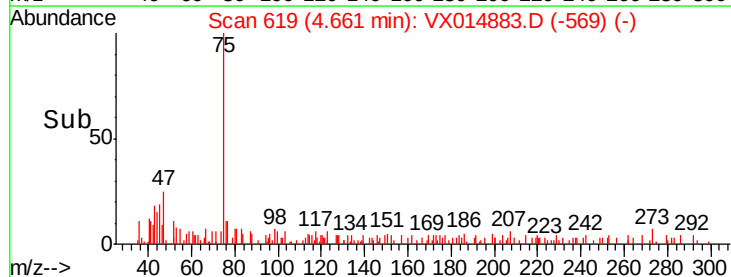
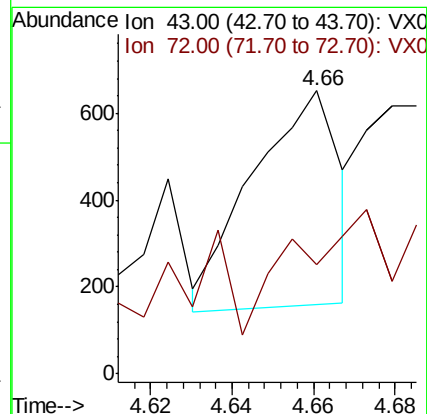
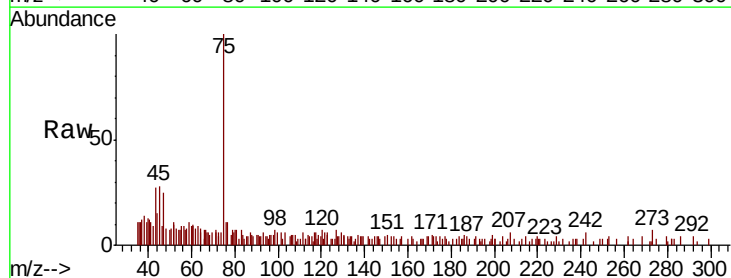
Acq: 10 Feb 2020 13:02

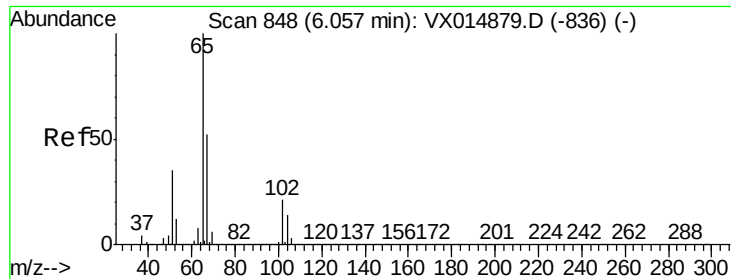
Tgt Ion: 43 Resp: 737

Ion Ratio Lower Upper

43 100

72 21.3 21.0 31.6

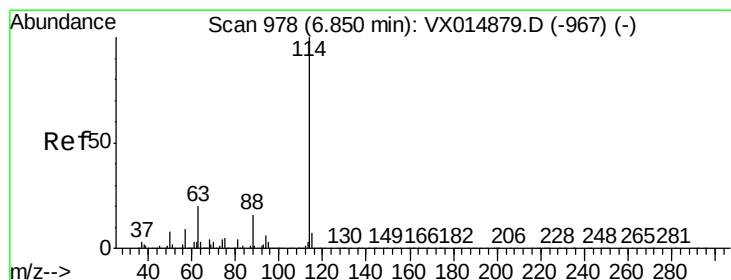
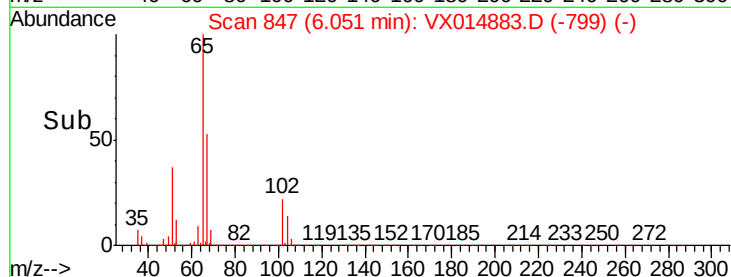
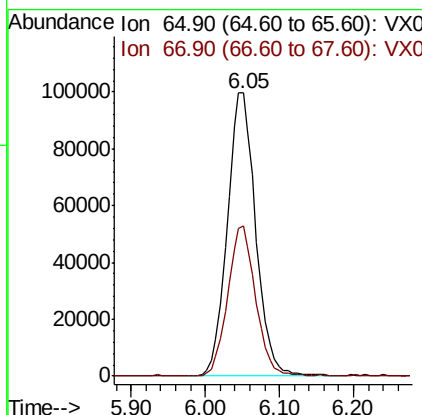
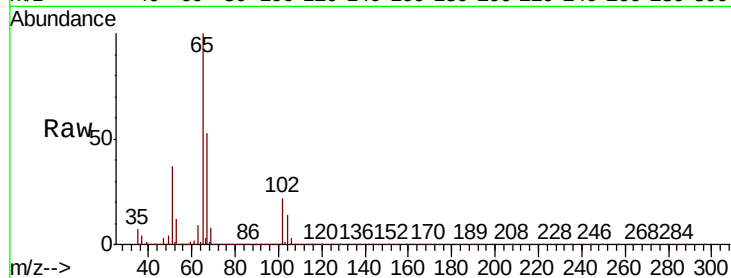




#33
 1,2-Dichloroethane-d4
 Concen: 49.990 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX014883.D
 Acq: 10 Feb 2020 13:02

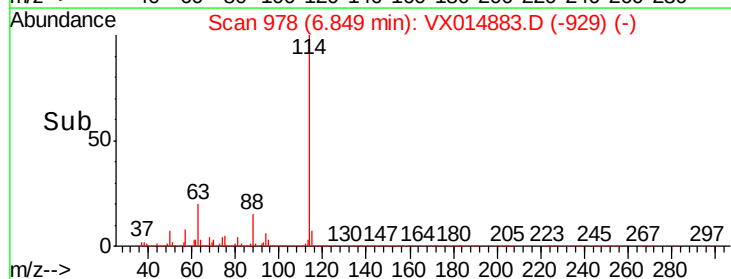
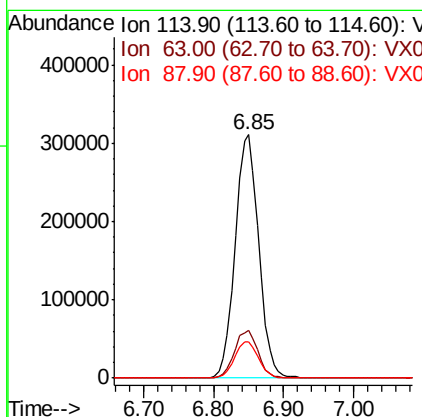
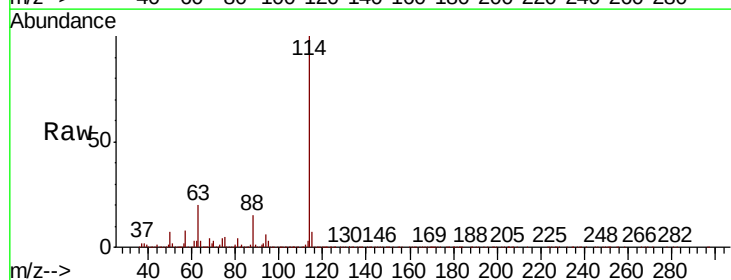
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBL01

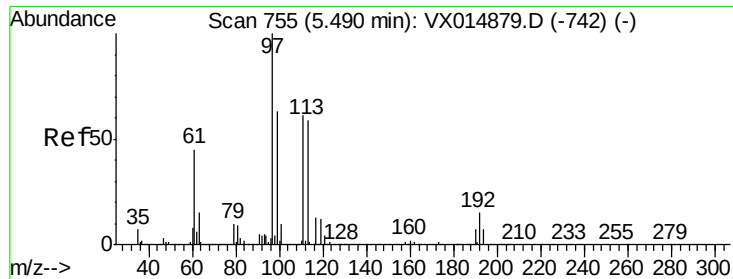
Tot Ion: 65 Resp: 265904
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014883.D
 Acq: 10 Feb 2020 13:02

Tgt Ion: 114 Resp: 725535
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.2
 88 15.0 0.0 32.0

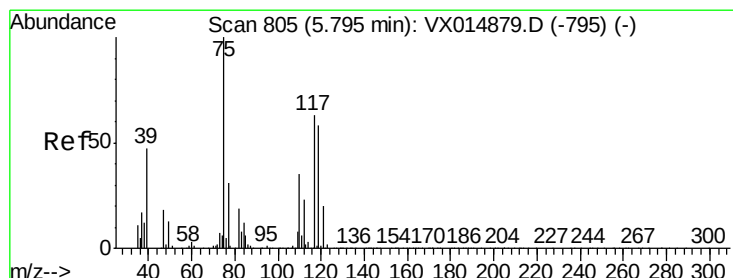
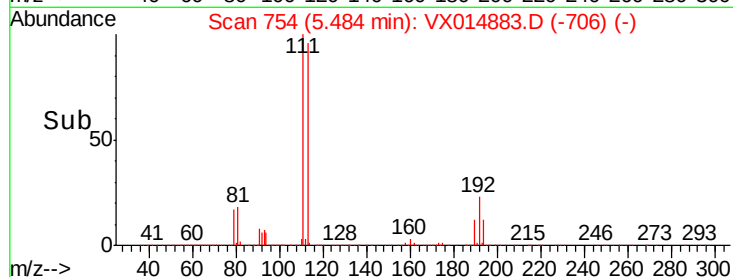
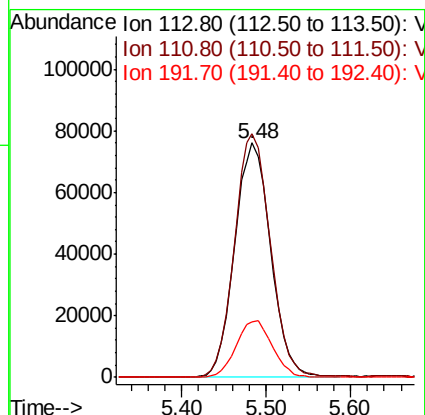
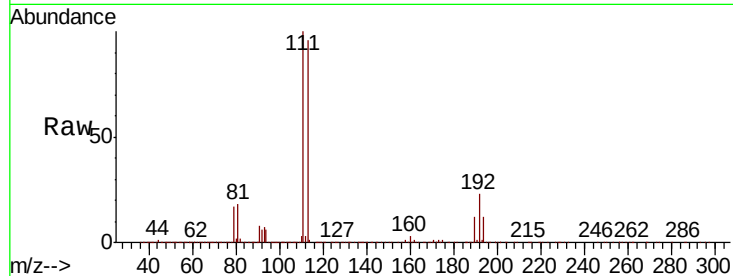




#35
 Dibromofluoromethane
 Concen: 49.247 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX014883.D
 Acq: 10 Feb 2020 13:02

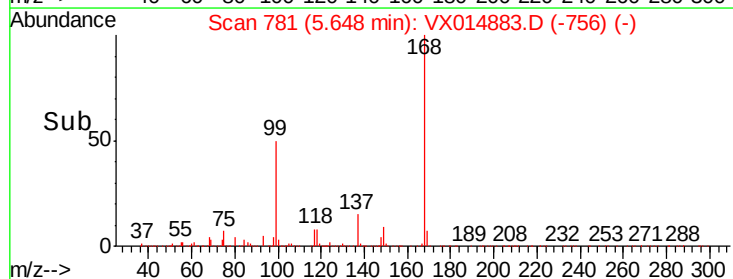
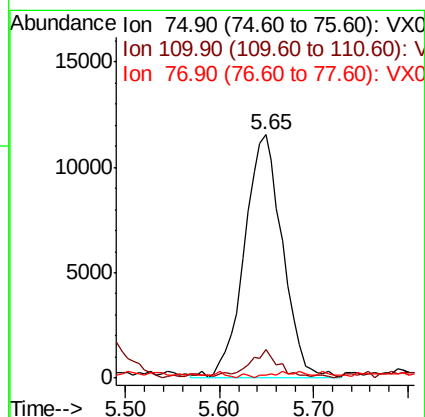
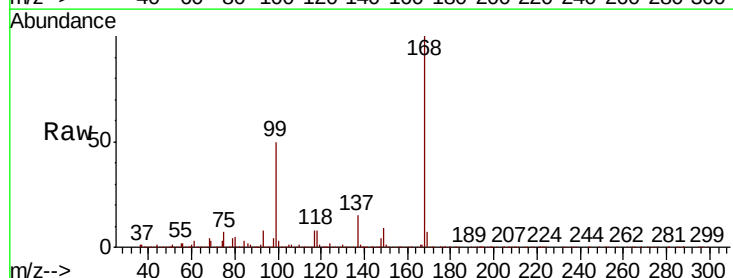
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBL01

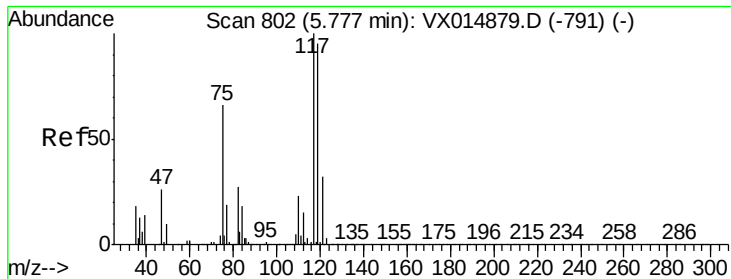
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.4	123.6
192	24.5	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 5.054 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014883.D
 Acq: 10 Feb 2020 13:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.3	54.8#
77	1.5	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.436 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

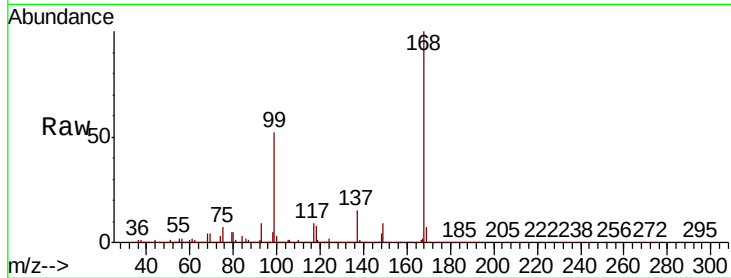
Tot Ion:117 Resp: 40709

Ion Ratio Lower Upper

117 100

119 4.1 76.0 114.0#

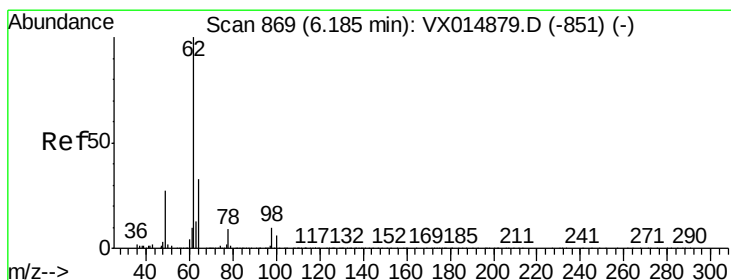
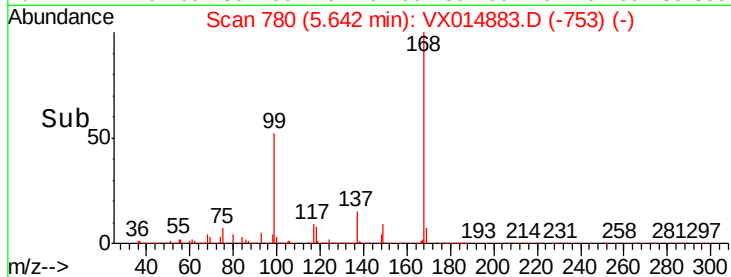
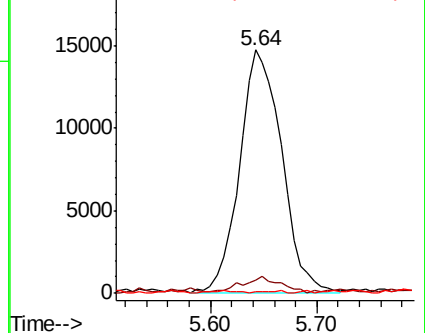
121 1.2 25.4 38.2#



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



#42

1,2-Dichloroethane

Concen: 0.215 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX014883.D

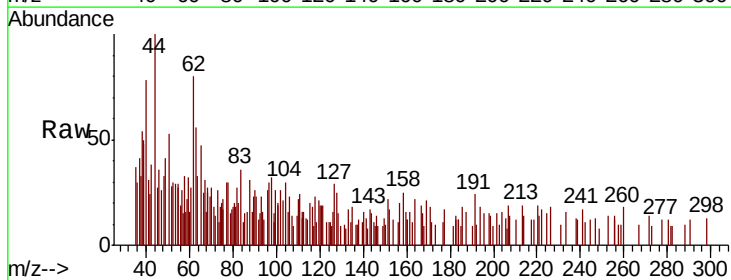
Acq: 10 Feb 2020 13:02

Tgt Ion: 62 Resp: 1507

Ion Ratio Lower Upper

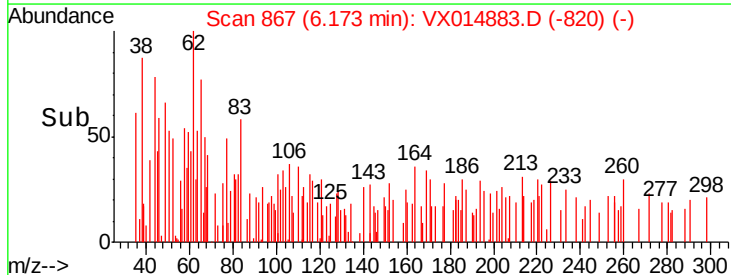
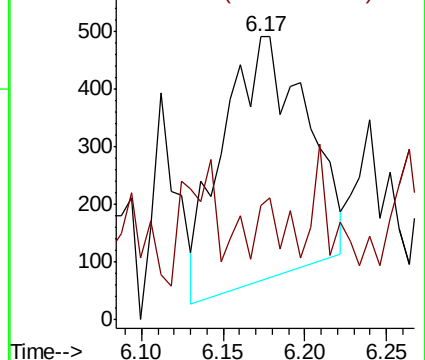
62 100

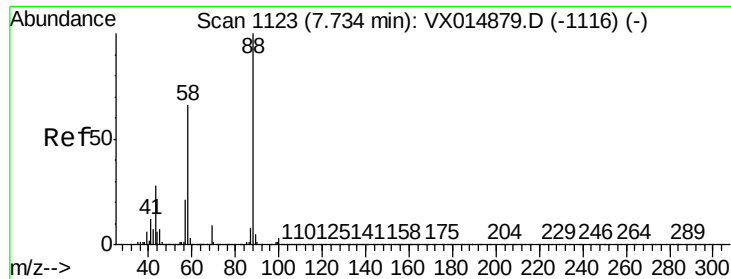
98 27.0 0.0 19.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 2.453 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

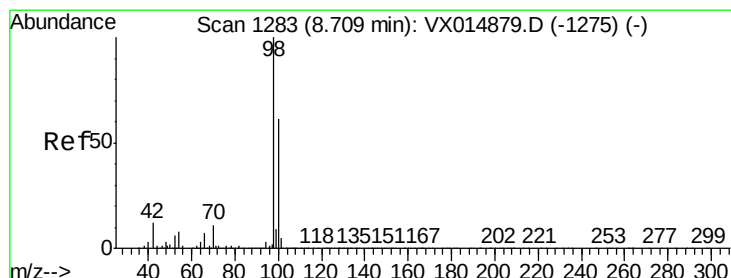
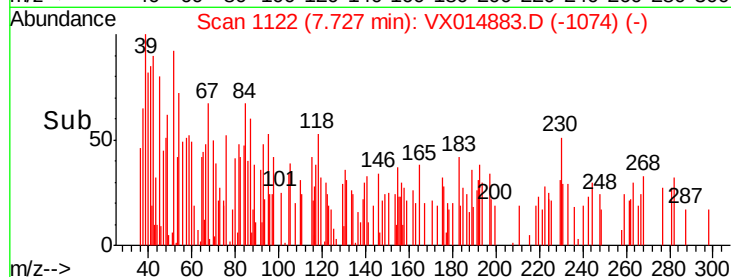
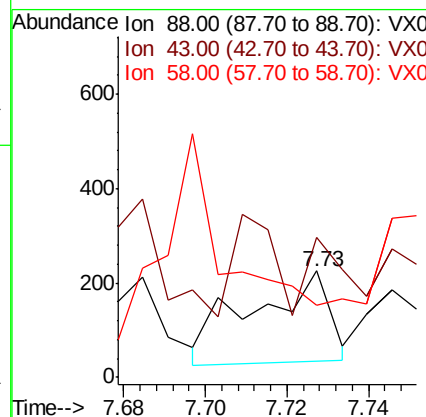
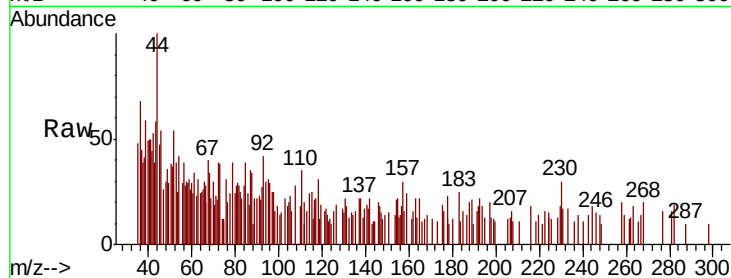
Tot Ion: 88 Resp: 252

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

58 0.0 53.2 79.8#



#50

Toluene-d8

Concen: 49.714 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014883.D

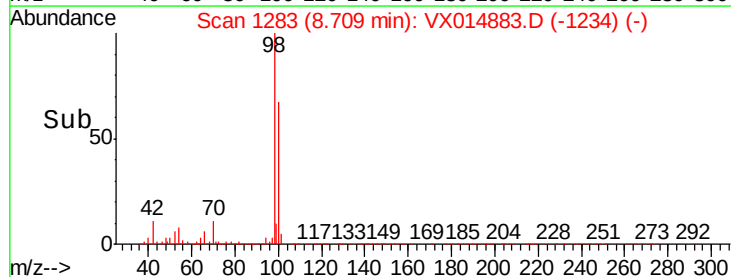
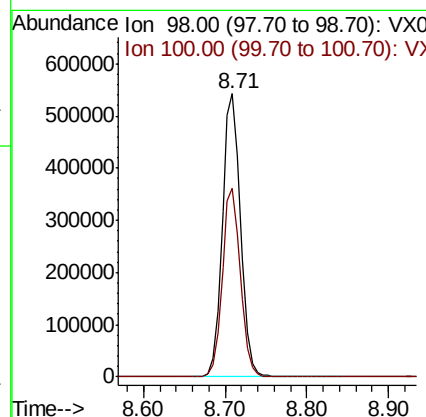
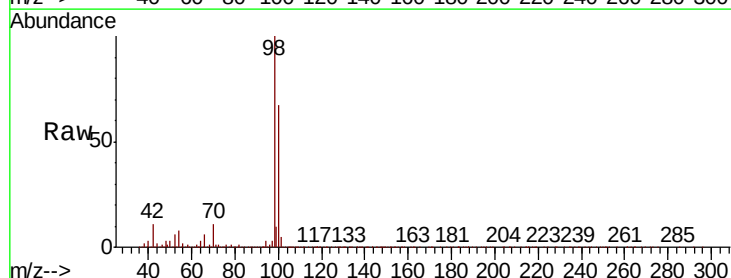
Acq: 10 Feb 2020 13:02

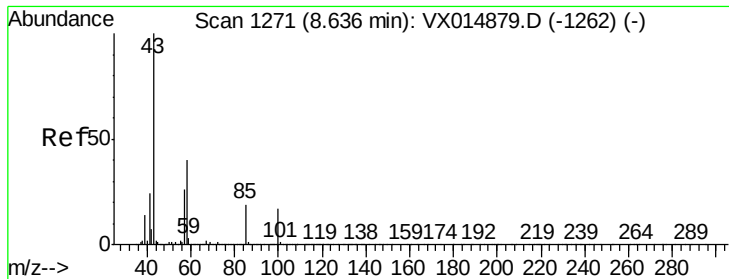
Tgt Ion: 98 Resp: 846415

Ion Ratio Lower Upper

98 100

100 66.3 52.4 78.6

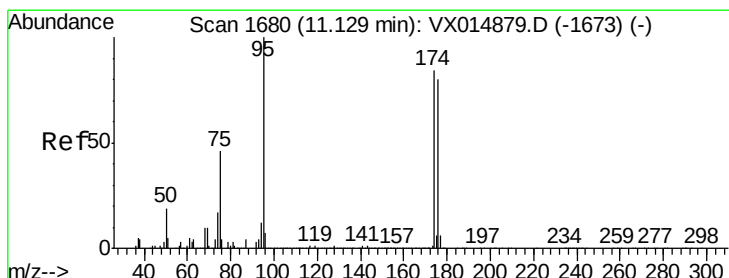
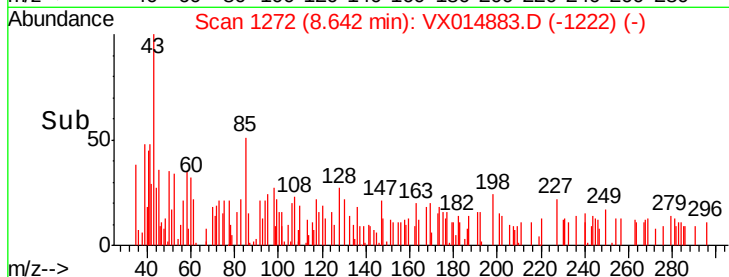
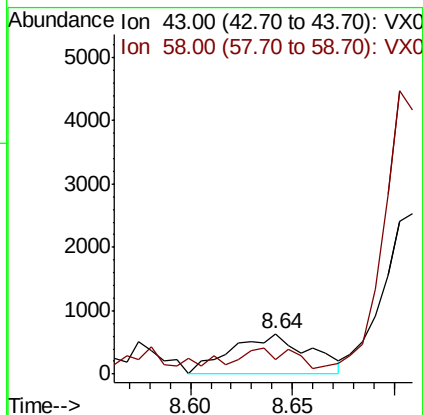
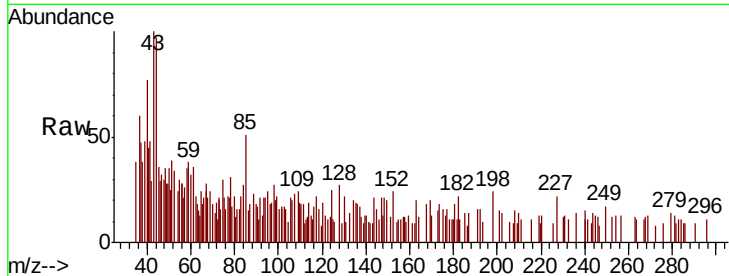




#51
4-Methyl-2-Pentanone
Concen: 0.250 ug/l
RT: 8.64 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

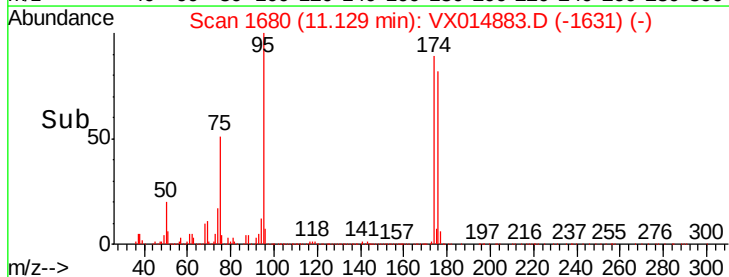
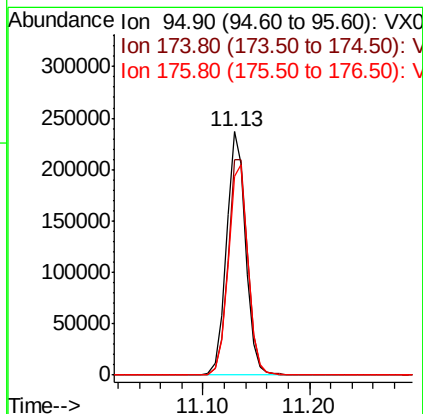
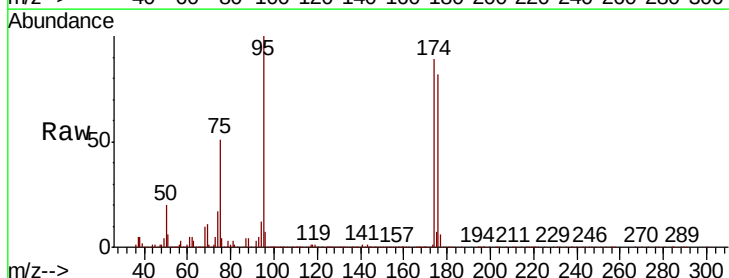
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

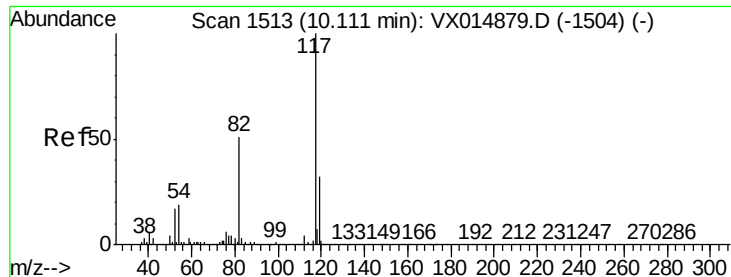
Tot Ion: 43 Resp: 1685
Ion Ratio Lower Upper
43 100
58 50.9 31.9 47.9#



#62
4-Bromofluorobenzene
Concen: 48.589 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion: 95 Resp: 298005
Ion Ratio Lower Upper
95 100
174 91.8 0.0 183.0
176 89.1 0.0 178.0

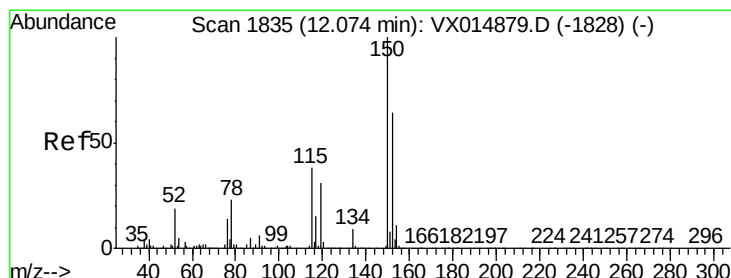
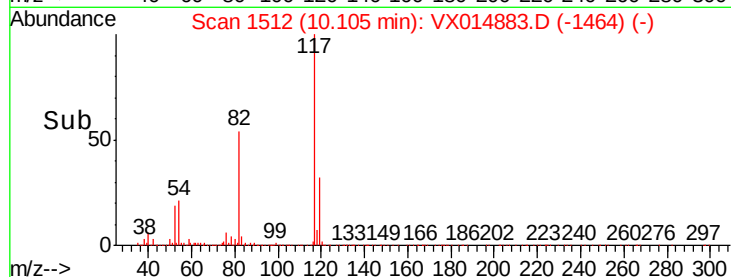
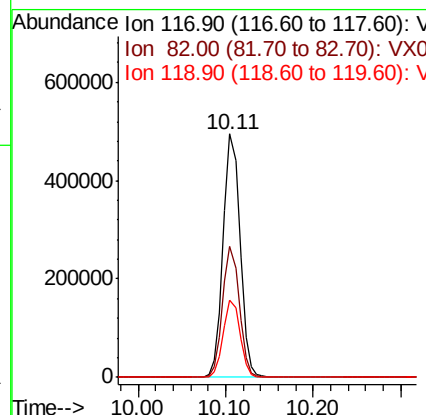
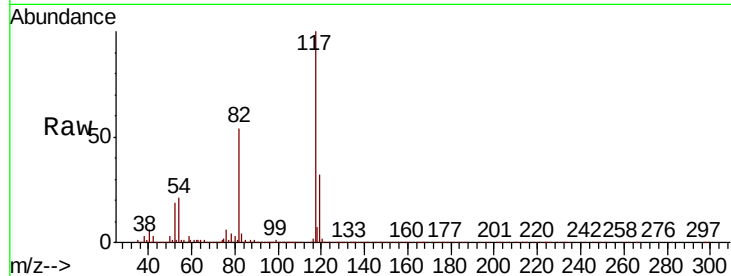




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

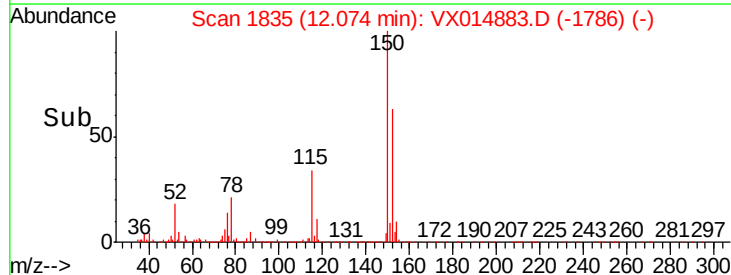
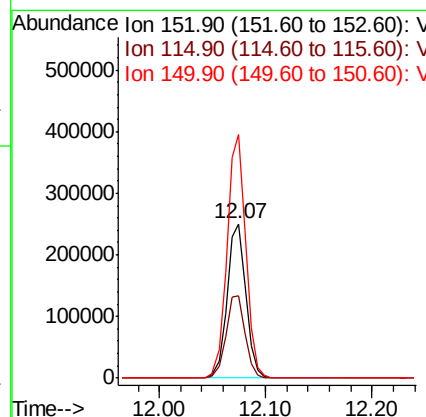
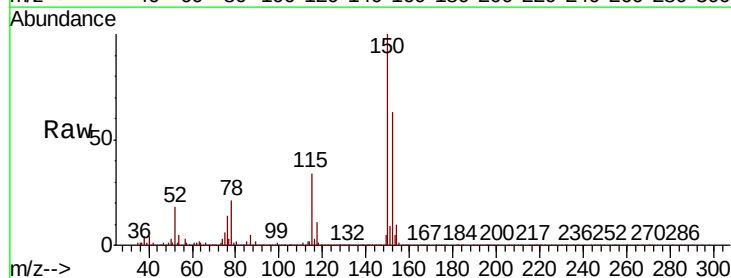
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

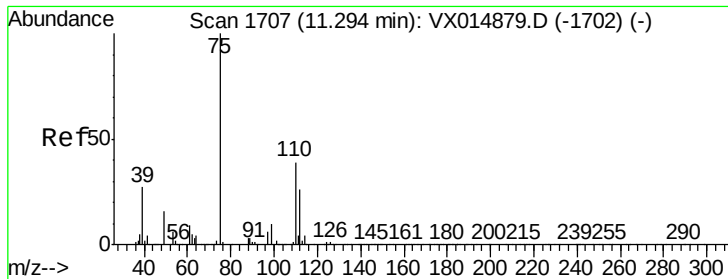
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	40.5	60.7
119	31.9	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.6	116.0
150	157.4	0.0	349.0





#76

1,2,3-Trichloropropane

Concen: 26.157 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

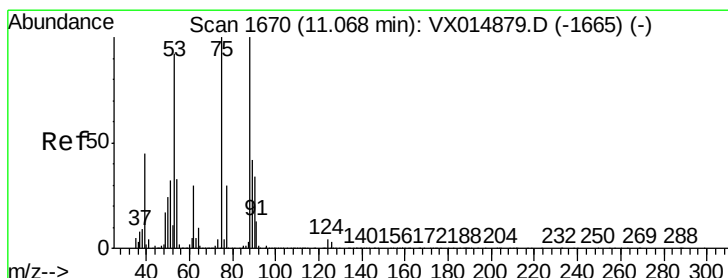
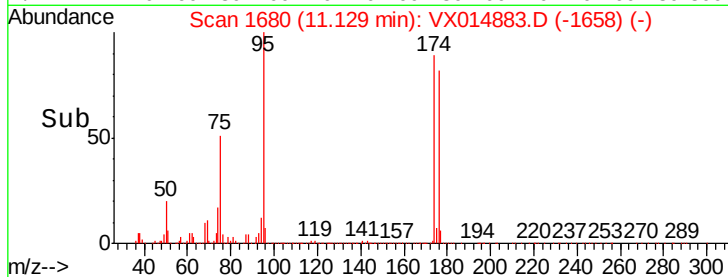
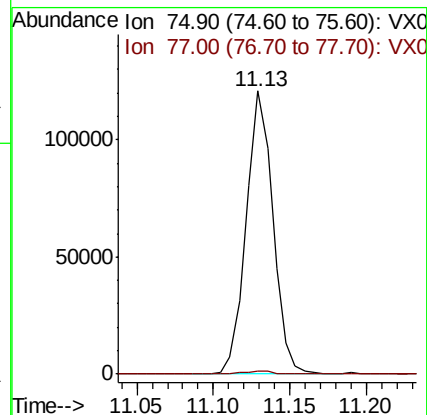
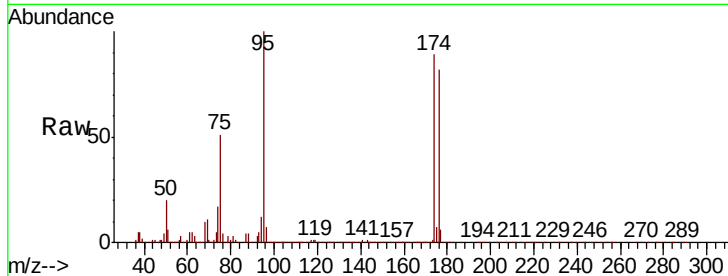
VX0210WBL01

Tot Ion: 75 Resp: 145863

Ion Ratio Lower Upper

75 100

77 1.3 18.4 55.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.953 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

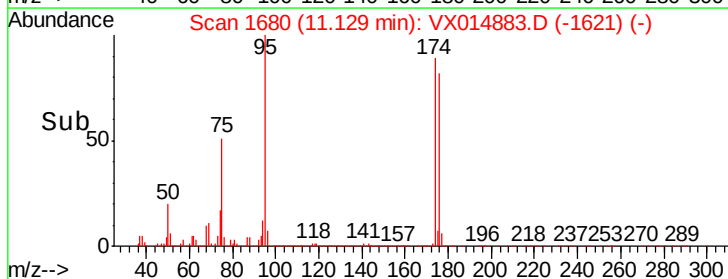
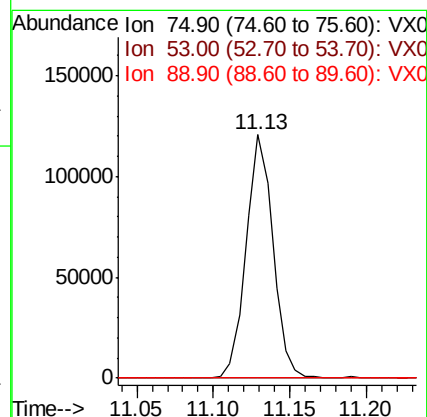
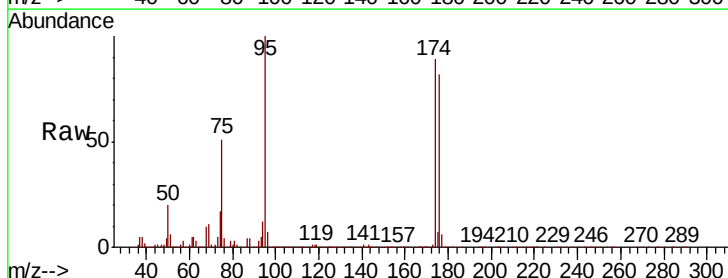
Tgt Ion: 75 Resp: 145863

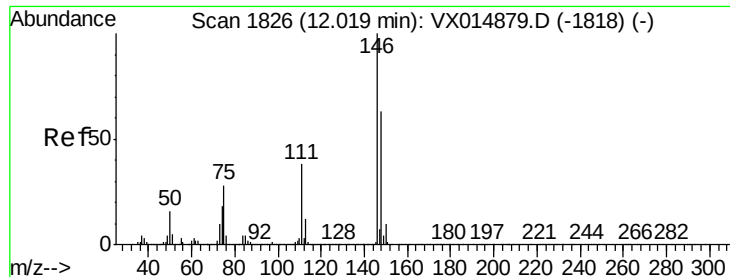
Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

89 0.3 35.8 53.6#





#87

1,3-Dichlorobenzene

Concen: 0.252 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. -0.00 min

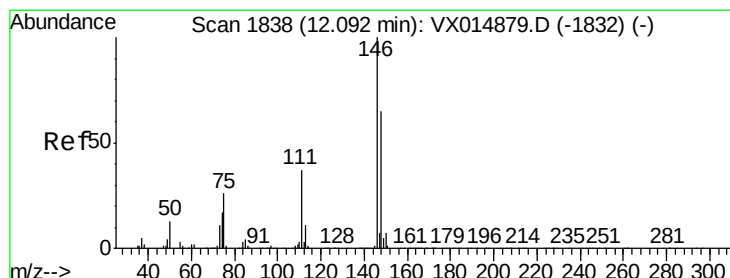
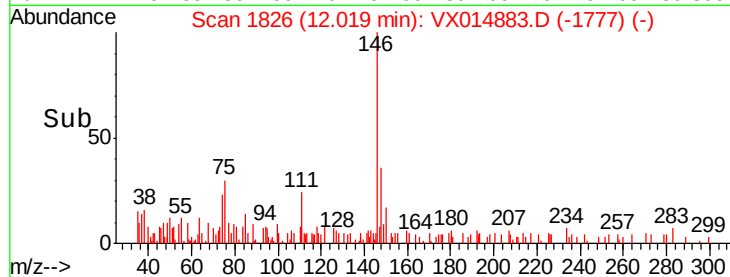
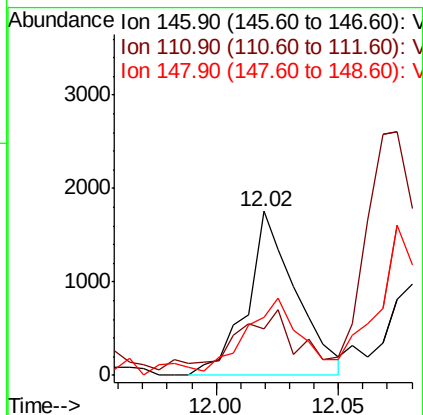
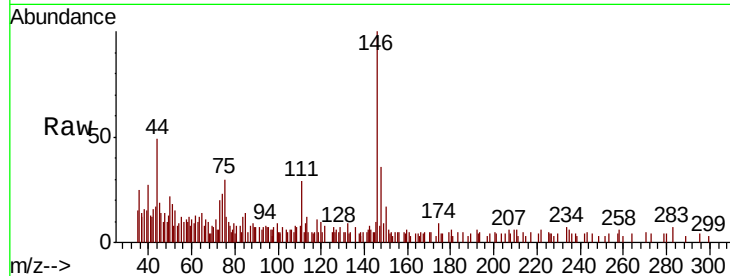
Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

Tot Ion:146 Resp: 2440

Ion	Ratio	Lower	Upper
146	100		
111	43.2	18.6	56.0
148	45.5	31.8	95.4



#88

1,4-Dichlorobenzene

Concen: 0.247 ug/l

RT: 12.02 min Scan# 1826

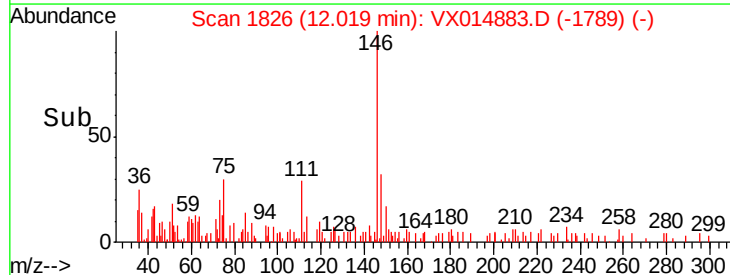
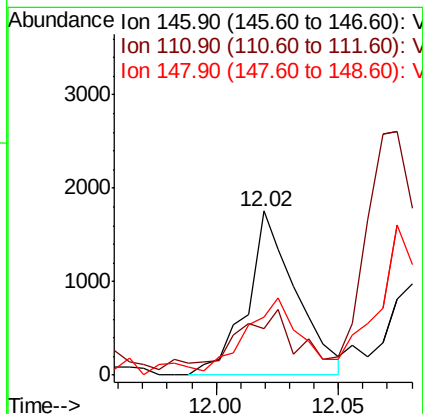
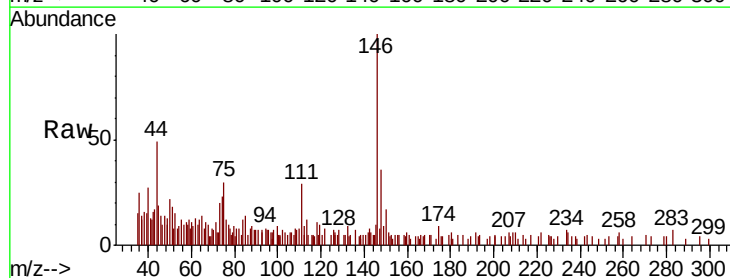
Delta R.T. -0.07 min

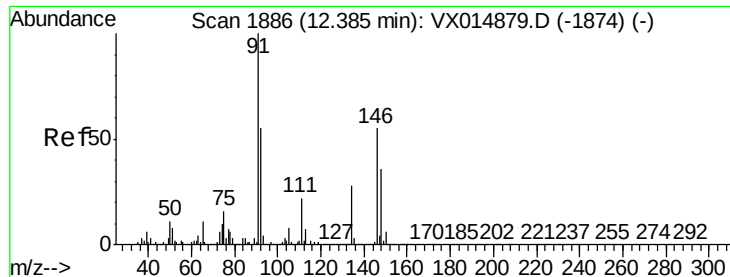
Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Tgt Ion:146 Resp: 2440

Ion	Ratio	Lower	Upper
146	100		
111	43.2	18.6	55.6
148	47.9	32.4	97.0

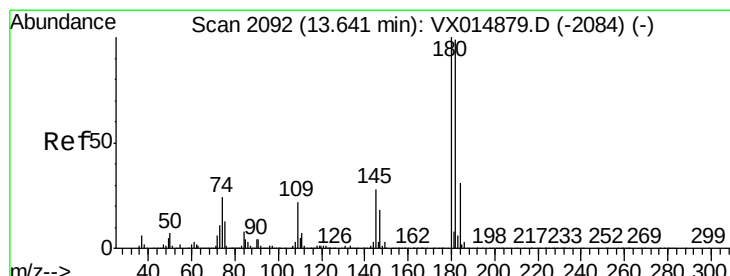
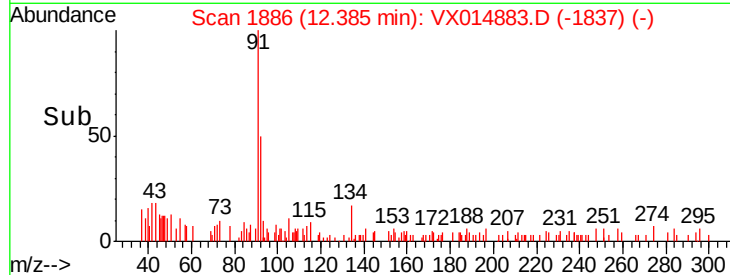
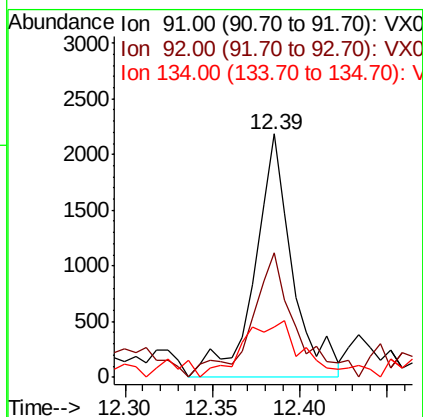
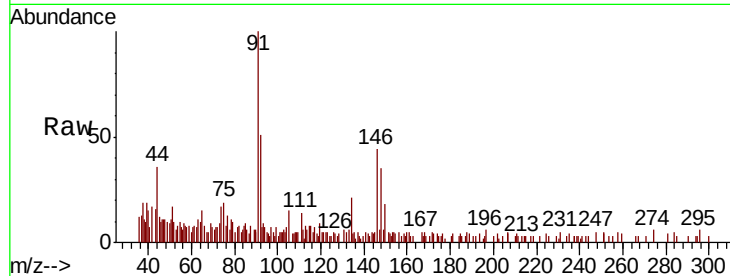




#89
n-Butylbenzene
Concen: 0.205 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

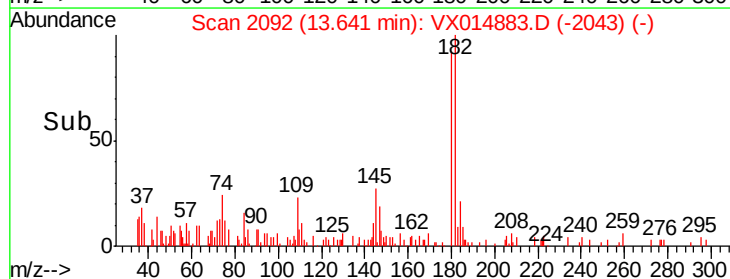
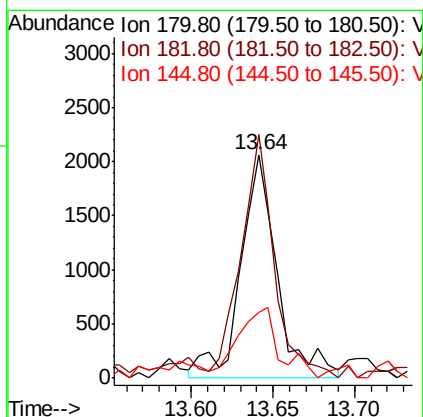
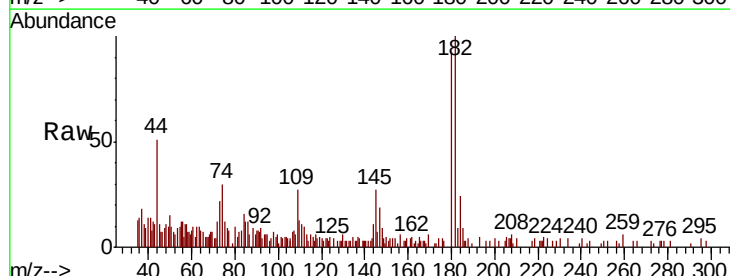
Instrument :
MSVOA_X
ClientSampleId :
VX0210WBL01

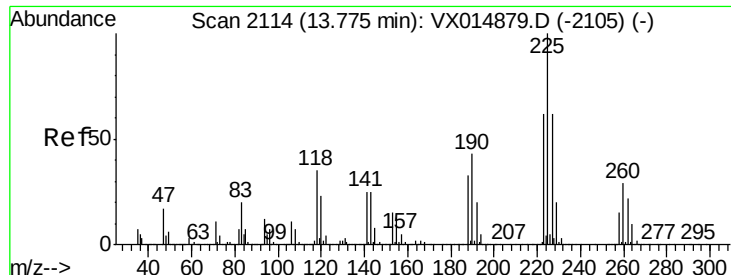
Tot Ion: 91 Resp: 3258
Ion Ratio Lower Upper
91 100
92 60.3 27.3 81.8
134 35.5 13.8 41.4



#93
1,2,4-Trichlorobenzene
Concen: 0.459 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. -0.00 min
Lab File: VX014883.D
Acq: 10 Feb 2020 13:02

Tgt Ion: 180 Resp: 3214
Ion Ratio Lower Upper
180 100
182 99.7 48.4 145.3
145 35.3 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.279 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

Instrument :

MSVOA_X

ClientSampleId :

VX0210WBL01

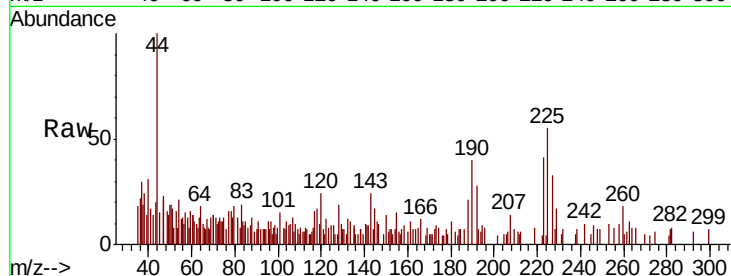
Tot Ion:225 Resp: 945

Ion Ratio Lower Upper

225 100

223 74.1 31.1 93.2

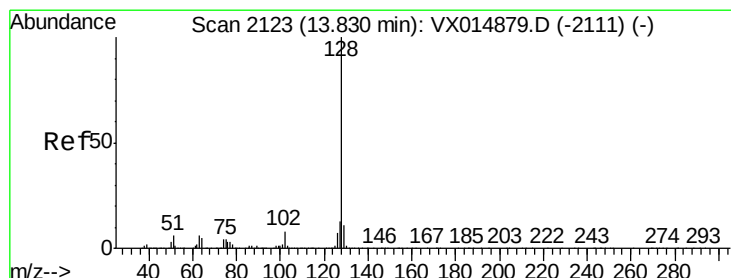
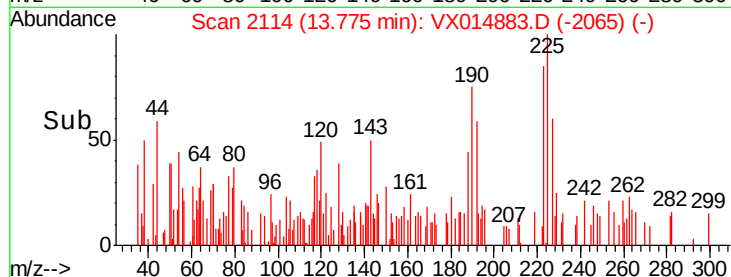
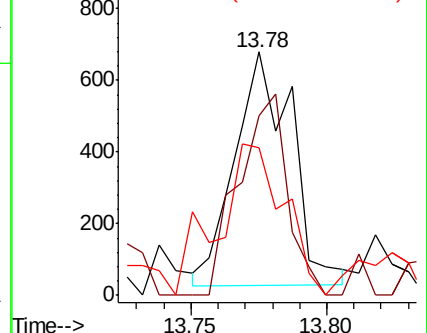
227 75.4 30.9 92.5



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: 0.323 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX014883.D

Acq: 10 Feb 2020 13:02

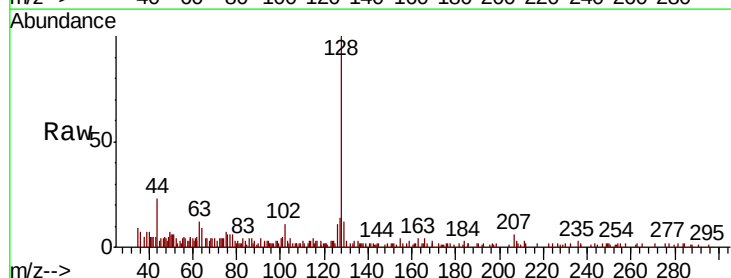
Tgt Ion:128 Resp: 6026

Ion Ratio Lower Upper

128 100

127 23.8 10.4 15.6#

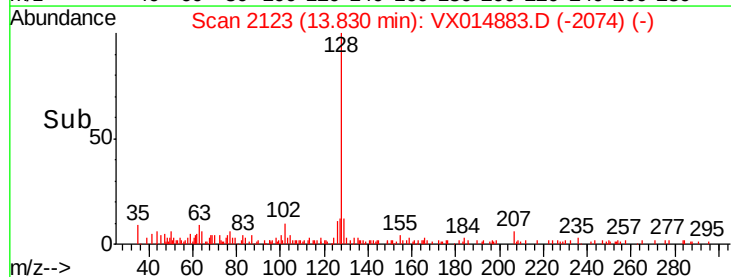
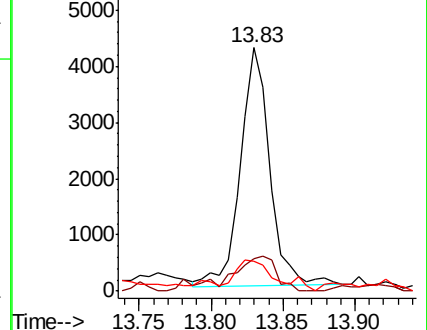
129 15.7 8.6 13.0#

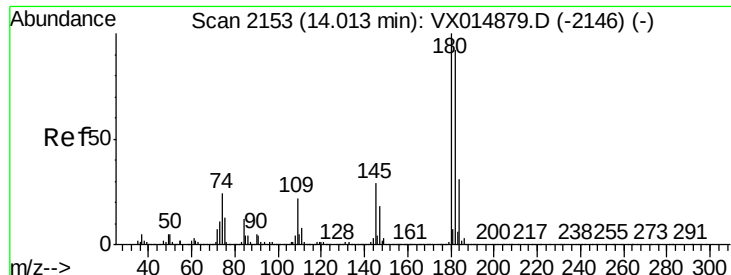


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

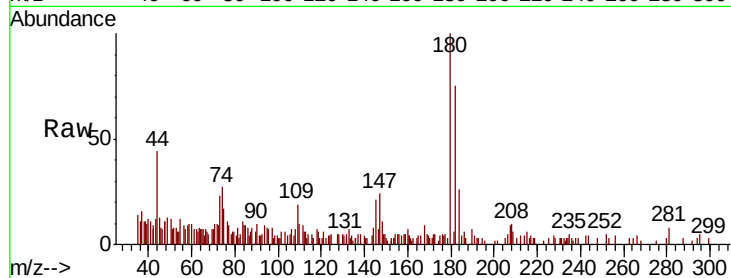




#96
 1,2,3-Trichlorobenzene
 Concen: 0.434 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX014883.D
 Acq: 10 Feb 2020 13:02

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0210WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	81.4	47.5	142.6
145	35.9	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

