

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022020\
 Data File : VX014972.D
 Acq On : 20 Feb 2020 12:14
 Operator : JC/SP
 Sample : L1581-01 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 21 00:32:45 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

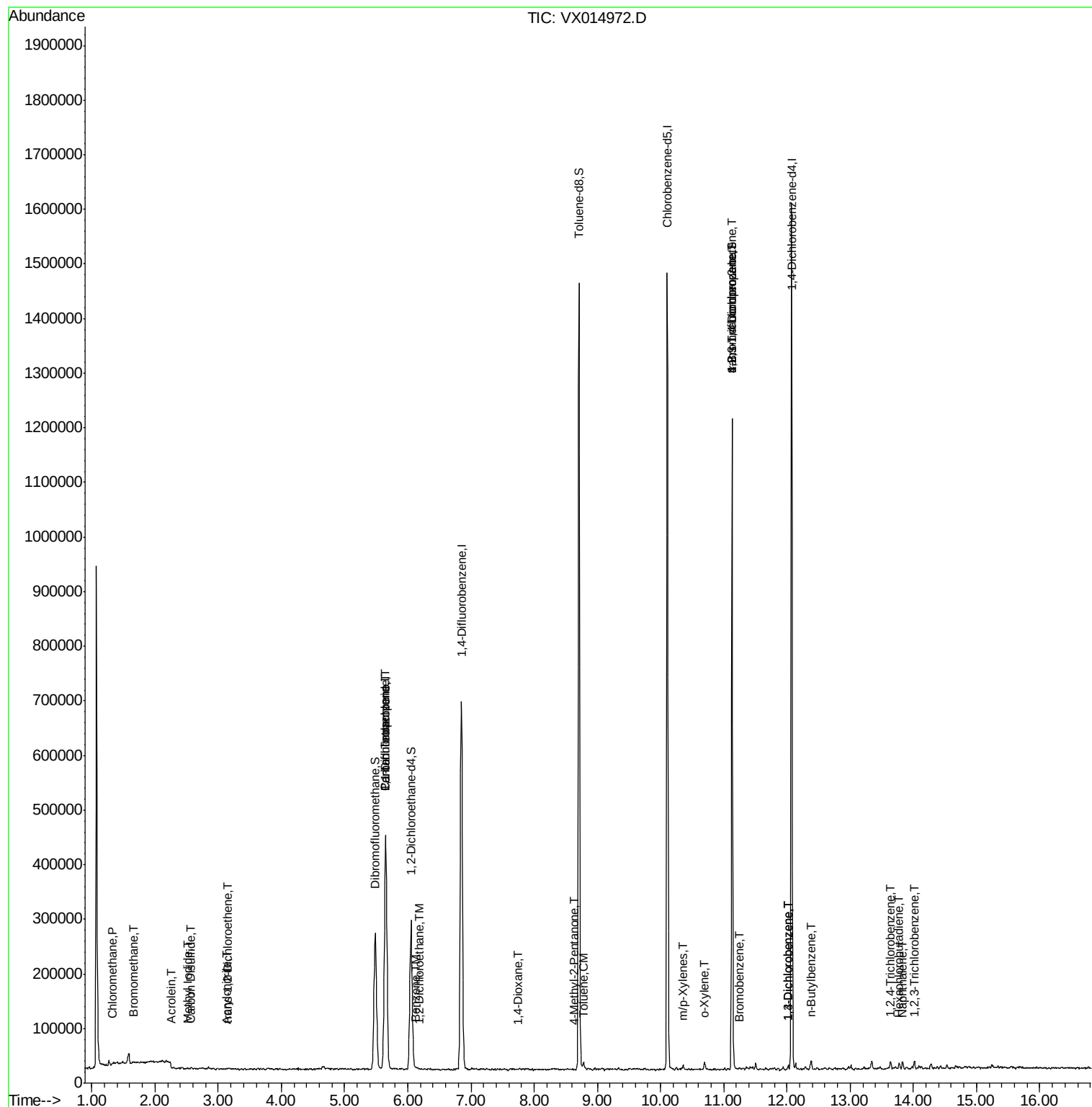
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	444822	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	701314	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	657200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	334092	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	256013	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
35) Dibromofluoromethane	5.48	113	214596	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
50) Toluene-d8	8.71	98	836098	50.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.13	95	303432	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	962	0.201	ug/l #	83
5) Bromomethane	1.66	94	1134	0.341	ug/l	98
10) Methyl Iodide	2.51	142	1879	4.737	ug/l #	70
13) Acrolein	2.27	56	800	1.184	ug/l	85
15) Acrylonitrile	3.14	53	1282	0.571	ug/l #	45
16) Acetone	2.43	43	2008	Below Cal		95
17) Carbon Disulfide	2.56	76	4163	0.365	ug/l #	78
21) trans-1,2-Dichloroethene	3.16	96	1427	0.317	ug/l #	63
36) 1,1-Dichloropropene	5.65	75	29754	4.743	ug/l #	51
38) Carbon Tetrachloride	5.64	117	38554	6.306	ug/l #	16
40) Benzene	6.12	78	4023	0.215	ug/l	96
42) 1,2-Dichloroethane	6.19	62	1657	0.245	ug/l	90
49) 1,4-Dioxane	7.74	88	102	1.027	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	1329	0.204	ug/l	98
52) Toluene	8.78	92	4442	0.373	ug/l	84
68) m/p-Xylenes	10.35	106	3136	0.359	ug/l #	66
69) o-Xylene	10.70	106	3693	0.440	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	149744	24.786	ug/l #	40
77) Bromobenzene	11.24	156	1173	0.201	ug/l	73
81) trans-1,4-Dichloro-2-buten	11.13	75	149744	63.445	ug/l #	12
87) 1,3-Dichlorobenzene	12.02	146	2922	0.279	ug/l	92
88) 1,4-Dichlorobenzene	12.02	146	2922	0.273	ug/l	91
89) n-Butylbenzene	12.38	91	5496	0.318	ug/l #	83
93) 1,2,4-Trichlorobenzene	13.64	180	3878	0.511	ug/l	91
94) Hexachlorobutadiene	13.78	225	2116	0.576	ug/l	94
95) Naphthalene	13.83	128	9996	0.495	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.01	180	3845	0.524	ug/l #	89

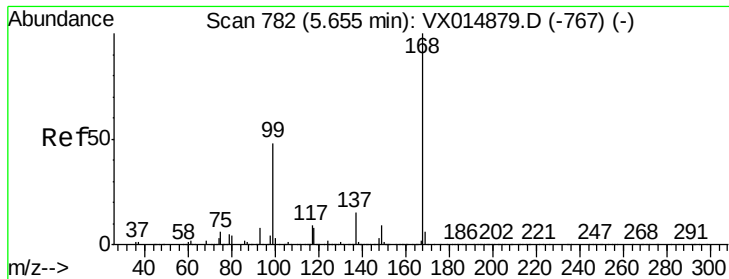
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

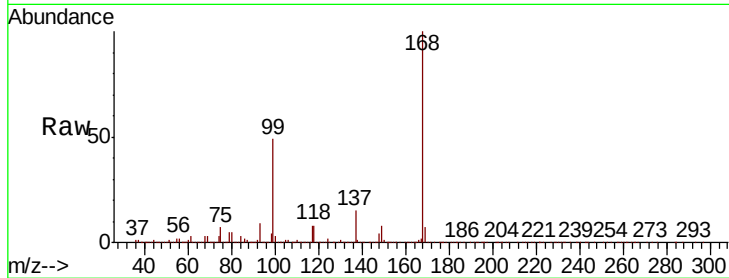
ClientSampleId :

Tot Ion:168 Resp: 444822

Ion Ratio Lower Upper

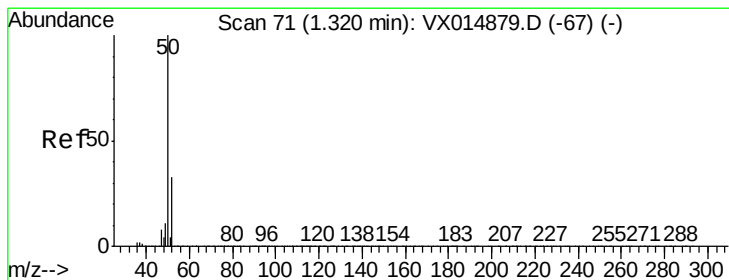
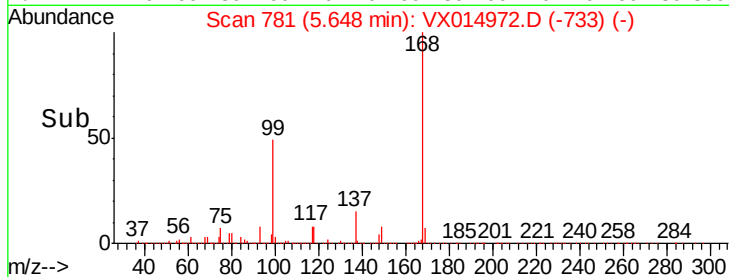
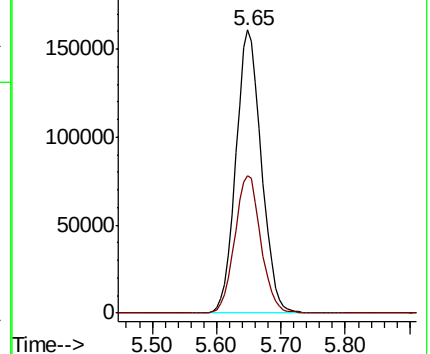
168 100

99 48.5 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014972.D

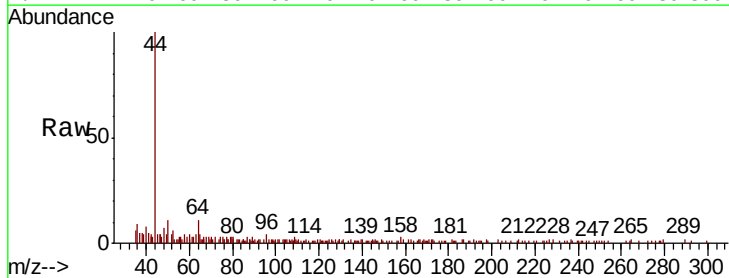
Acq: 20 Feb 2020 12:14

Tgt Ion: 50 Resp: 962

Ion Ratio Lower Upper

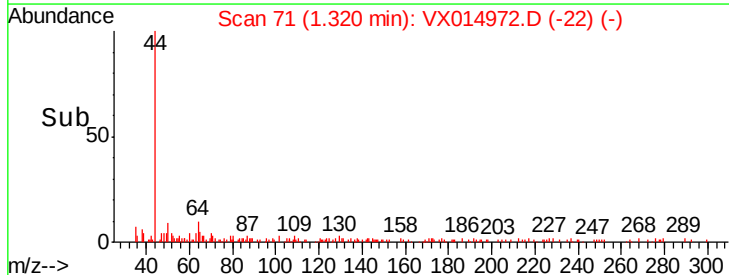
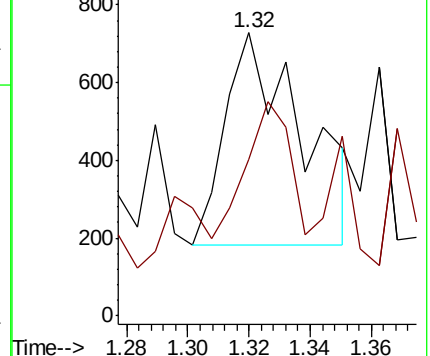
50 100

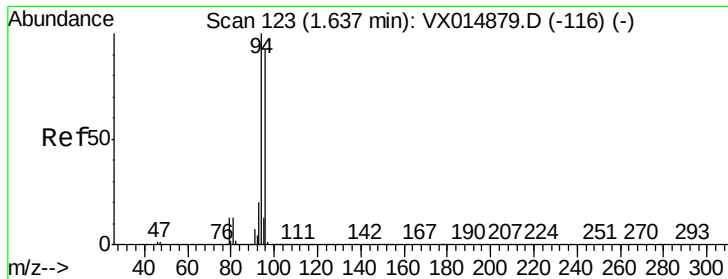
52 23.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.341 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

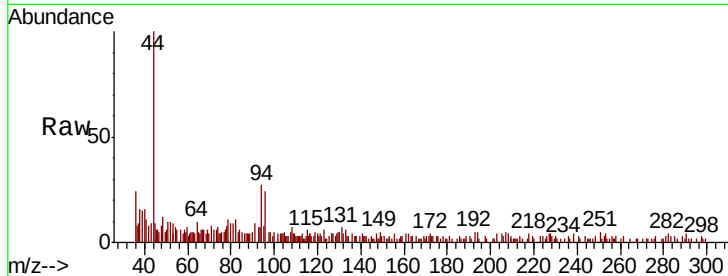
ClientSampleId :

Tot Ion: 94 Resp: 1134

Ion Ratio Lower Upper

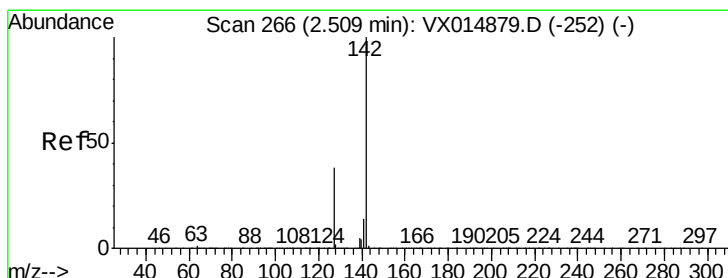
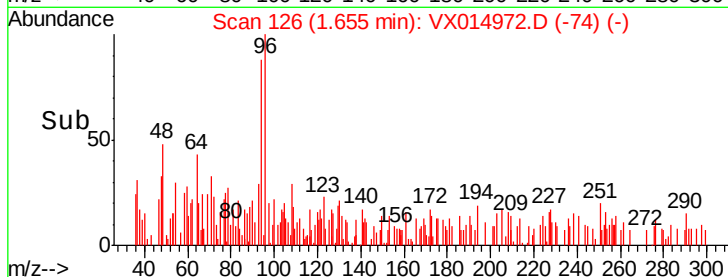
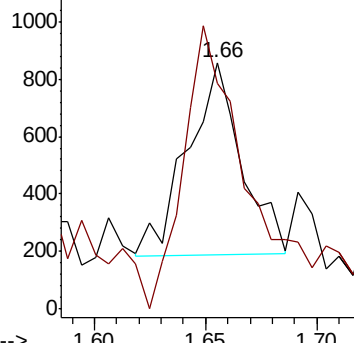
94 100

96 94.0 73.7 110.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 4.737 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

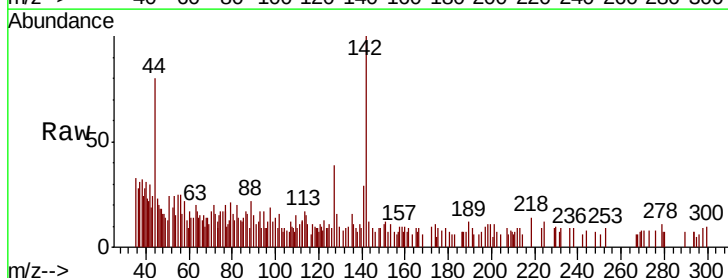
Tgt Ion: 142 Resp: 1879

Ion Ratio Lower Upper

142 100

127 52.0 31.1 46.7#

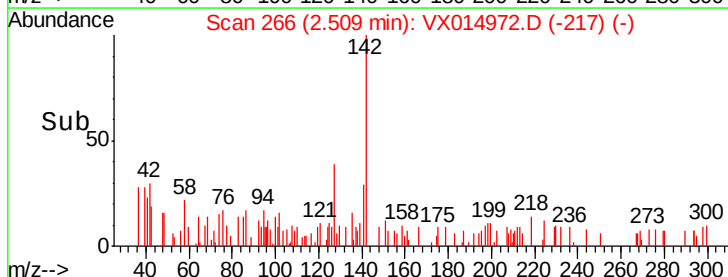
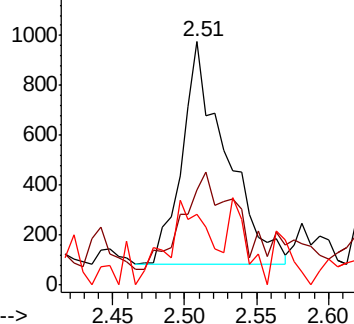
141 36.0 11.3 16.9#

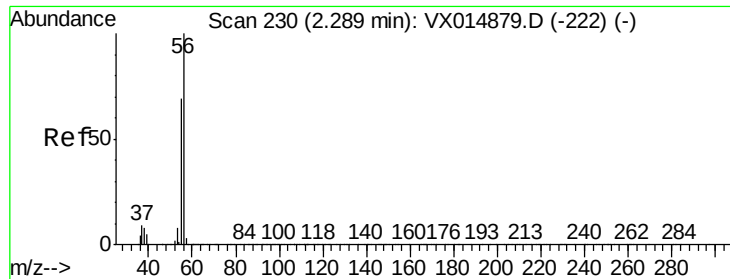


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

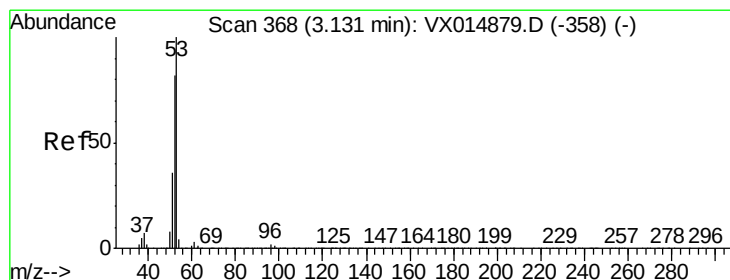
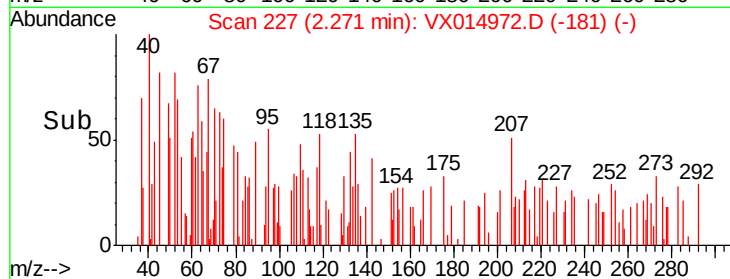
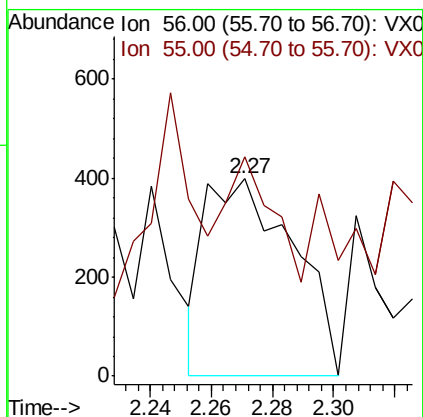
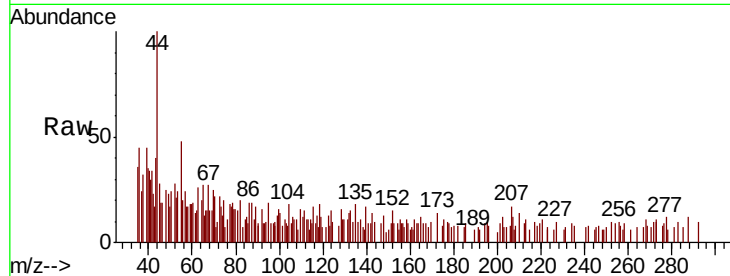




#13
Acrolein
Concen: 1.184 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.02 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

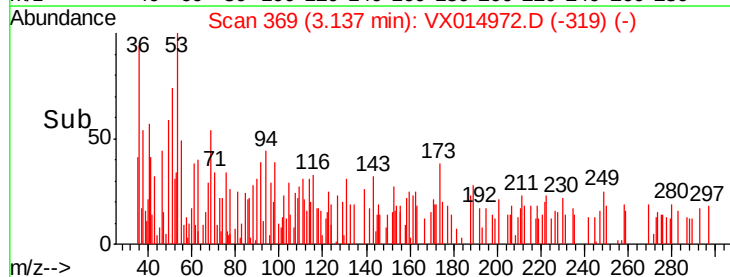
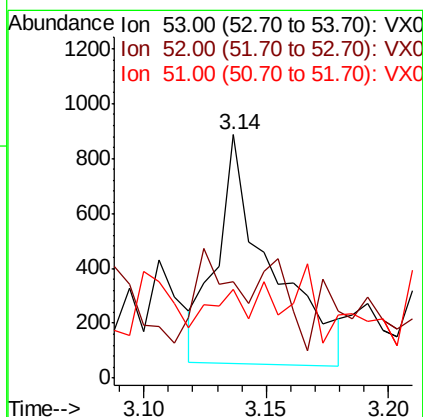
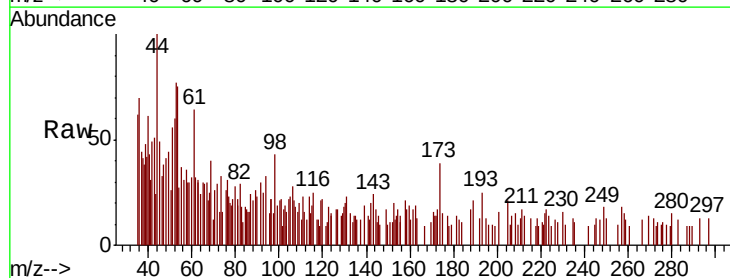
Instrument :
MSVOA_X
ClientSampled :

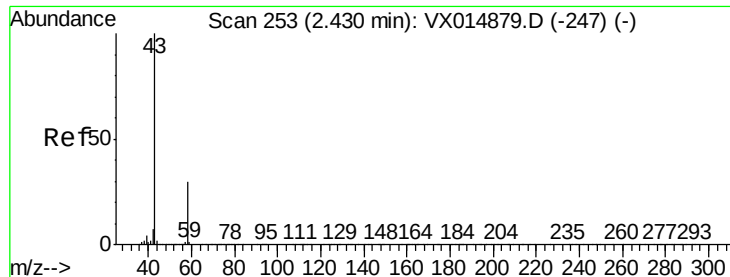
Tot Ion: 56 Resp: 800
Ion Ratio Lower Upper
56 100
55 56.8 55.0 82.4



#15
Acrylonitrile
Concen: 0.571 ug/l
RT: 3.14 min Scan# 369
Delta R.T. 0.01 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion: 53 Resp: 1282
Ion Ratio Lower Upper
53 100
52 29.3 65.8 98.6#
51 9.8 29.1 43.7#

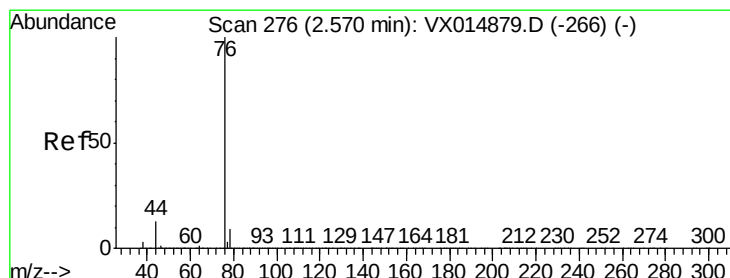
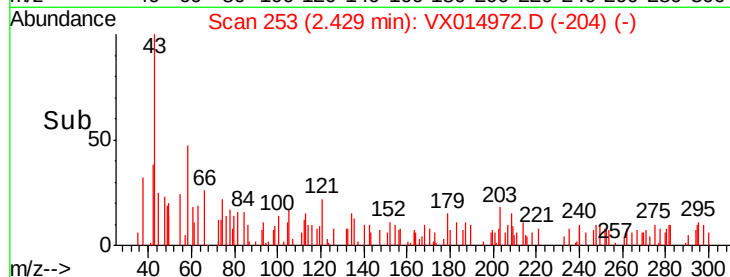
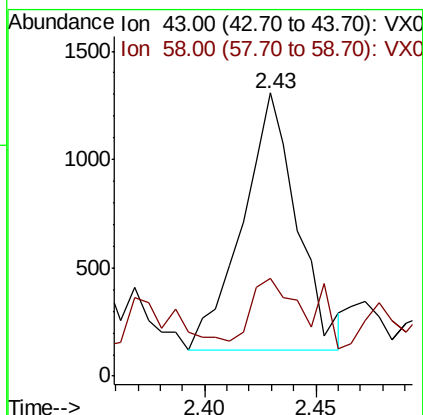
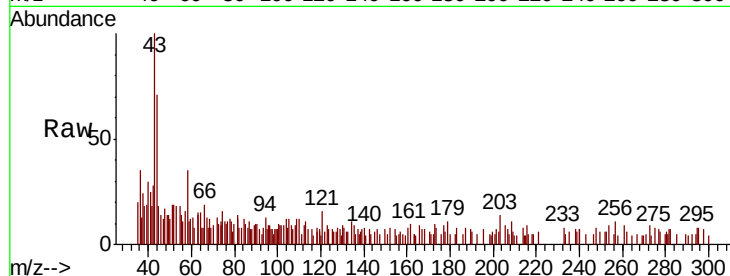




#16
Acetone
Concen: Below Cal
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

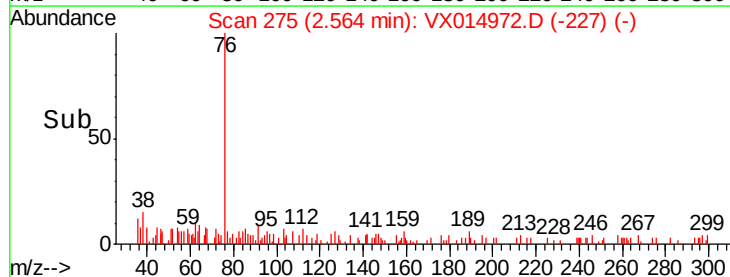
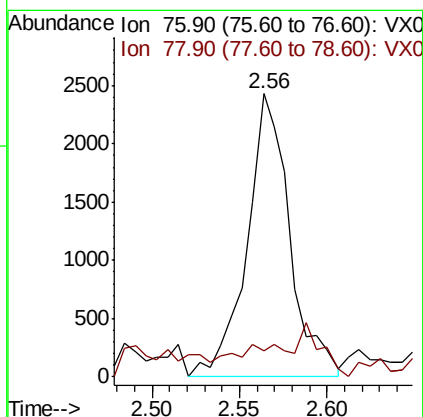
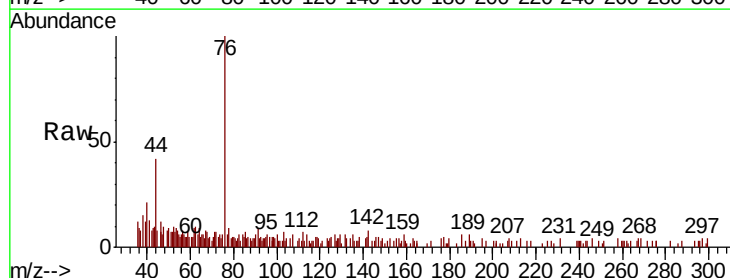
Instrument :
MSVOA_X
ClientSampled :

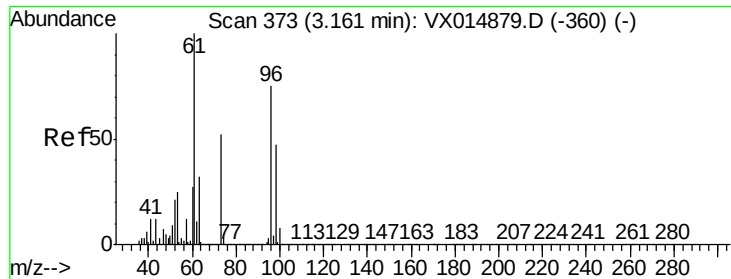
Tot Ion: 43 Resp: 2008
Ion Ratio Lower Upper
43 100
58 27.4 24.1 36.1



#17
Carbon Disulfide
Concen: 0.365 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.01 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion: 76 Resp: 4163
Ion Ratio Lower Upper
76 100
78 1.3 7.4 11.0#





#21

trans-1,2-Dichloroethene

Concen: 0.317 ug/l

RT: 3.16 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

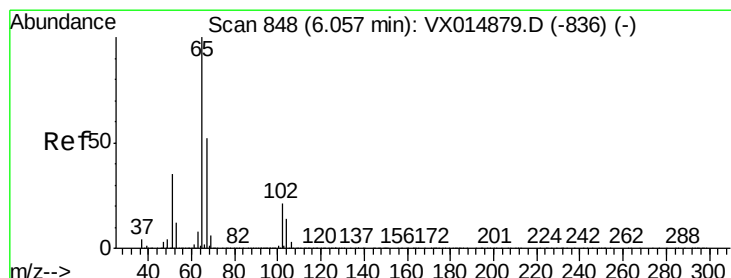
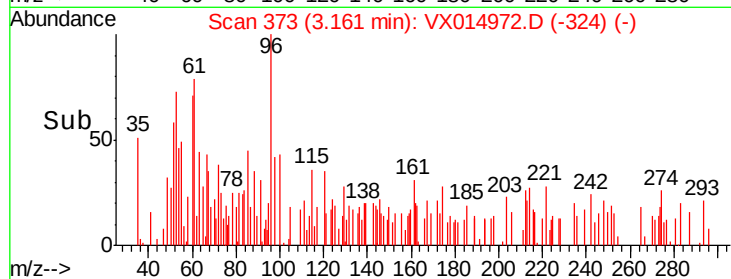
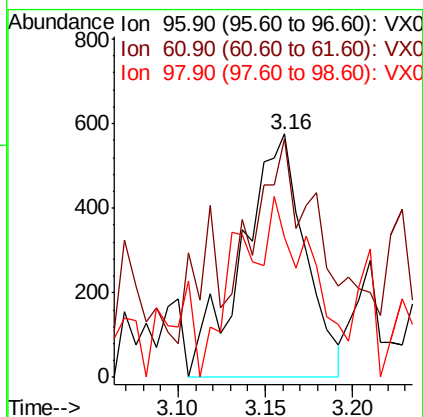
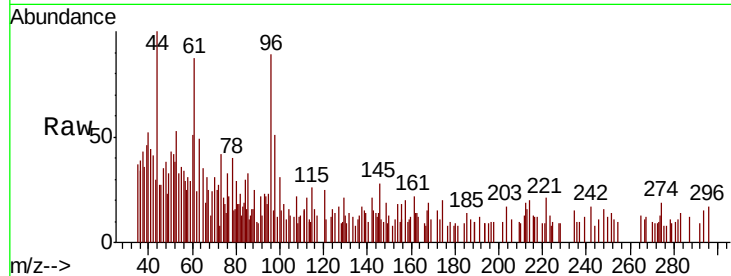
Tot Ion: 96 Resp: 1427

Ion Ratio Lower Upper

96 100

61 80.0 106.9 160.3#

98 47.1 50.7 76.1#



#33

1,2-Dichloroethane-d4

Concen: 50.997 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX014972.D

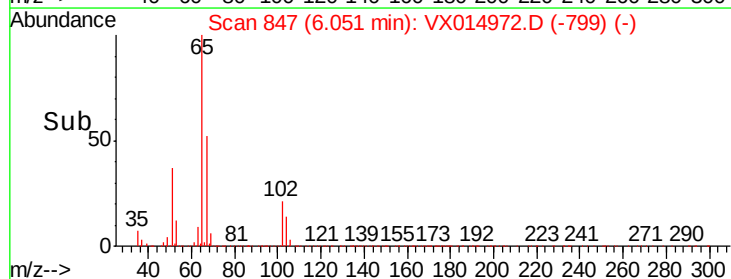
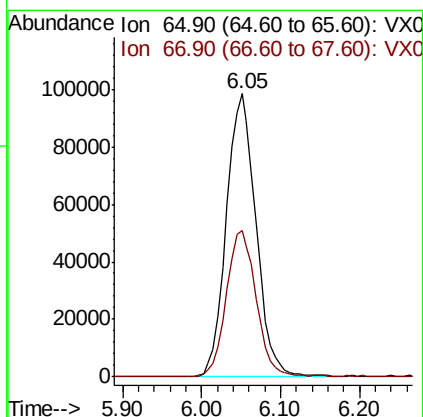
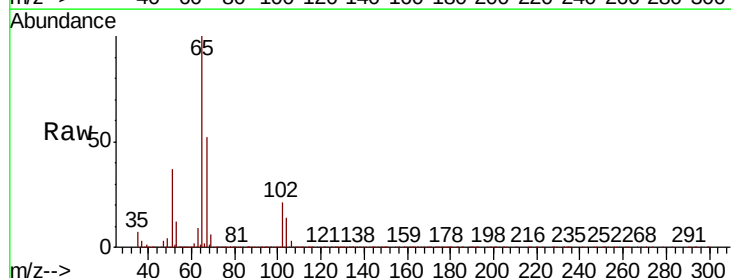
Acq: 20 Feb 2020 12:14

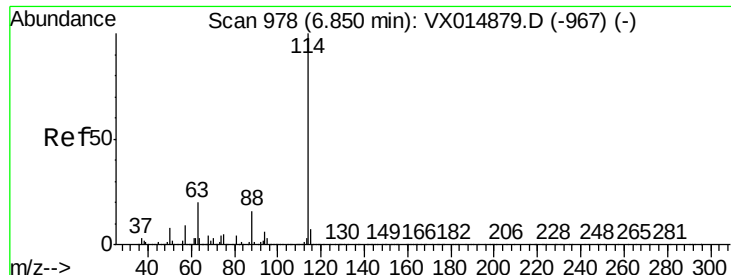
Tgt Ion: 65 Resp: 256013

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0

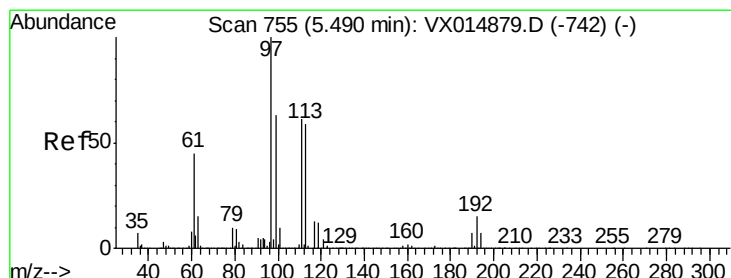
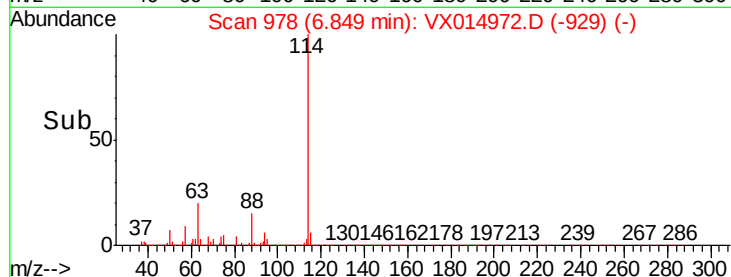
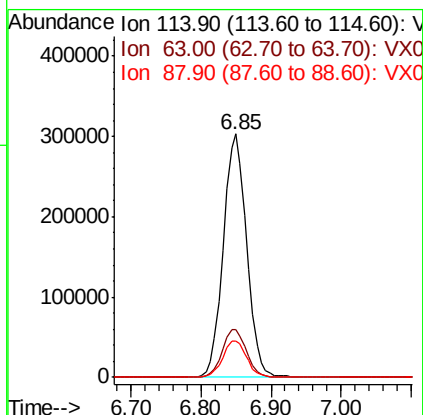
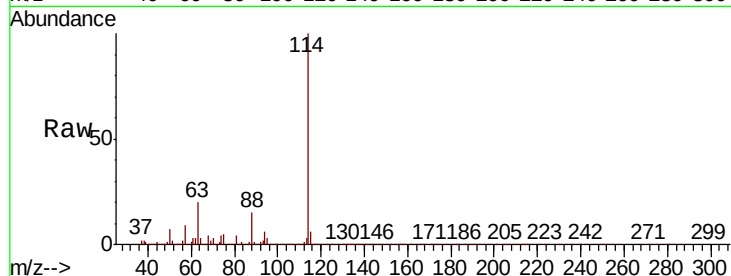




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

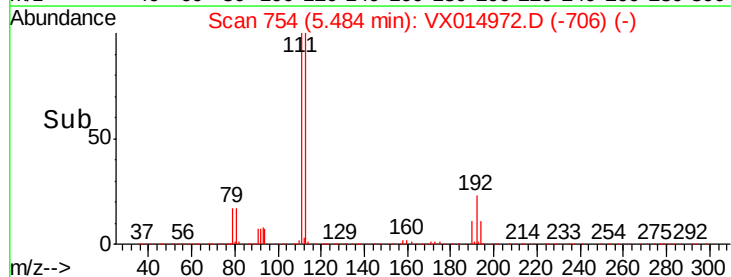
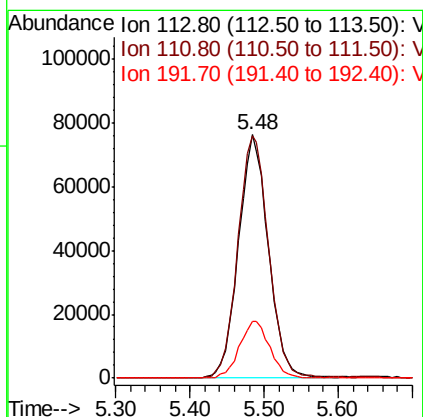
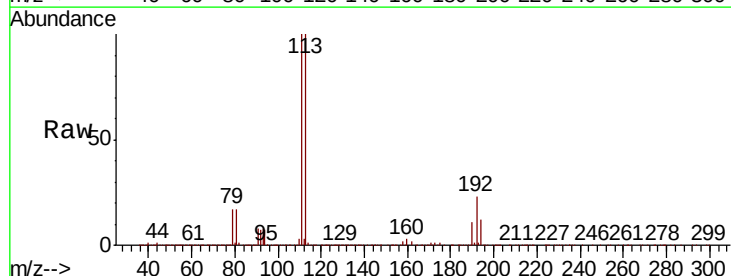
Instrument :
MSVOA_X
ClientSampleId :

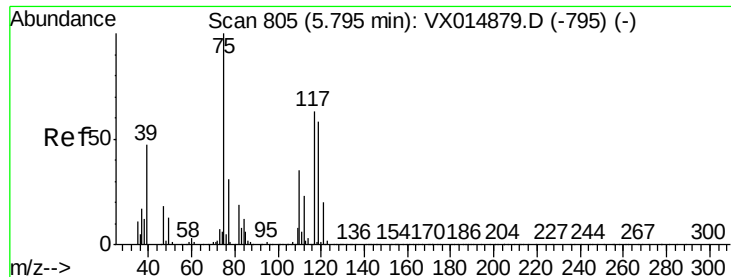
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.2
88	14.8	0.0	32.0



#35
Dibromofluoromethane
Concen: 49.773 ug/l
RT: 5.48 min Scan# 754
Delta R.T. -0.01 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.4	123.6
192	23.7	19.1	28.7





#36

1,1-Dichloropropene

Concen: 4.743 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

ClientSampled :

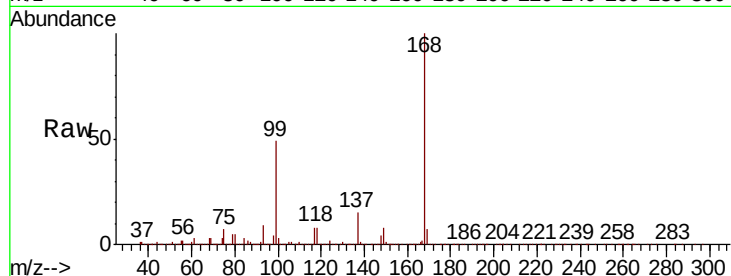
Tot Ion: 75 Resp: 29754

Ion Ratio Lower Upper

75 100

110 11.0 18.3 54.8#

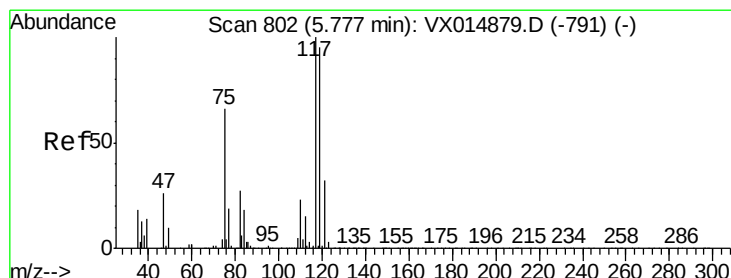
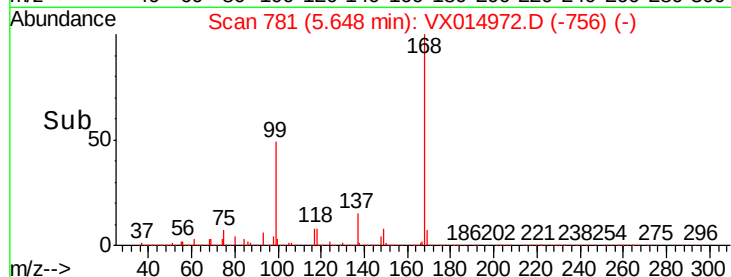
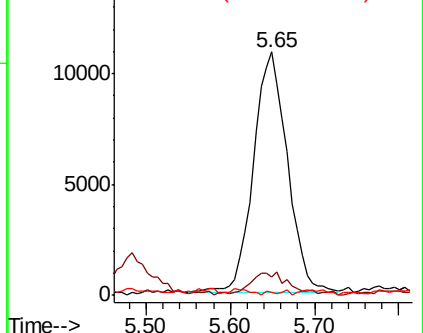
77 0.5 24.6 36.8#



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: 6.306 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

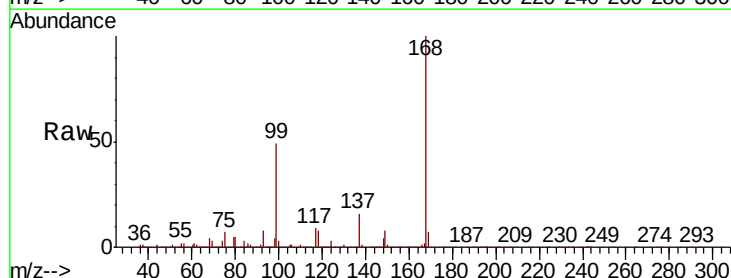
Tgt Ion: 117 Resp: 38554

Ion Ratio Lower Upper

117 100

119 4.1 76.0 114.0#

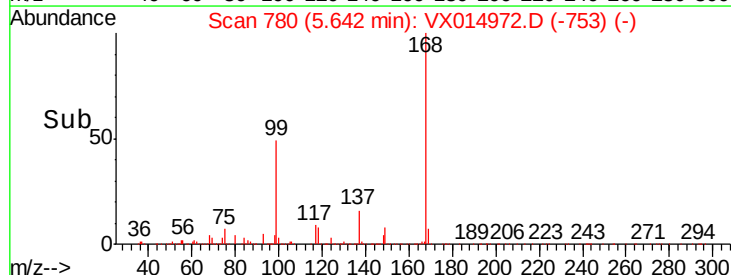
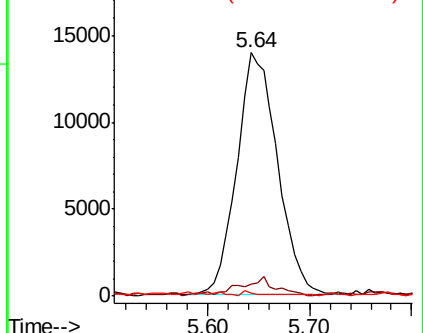
121 0.3 25.4 38.2#

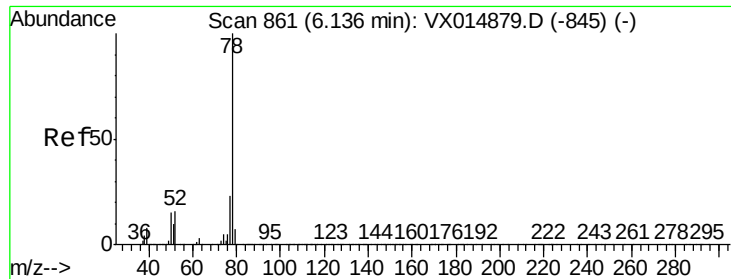


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.215 ug/l

RT: 6.12 min Scan# 859

Delta R.T. -0.01 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

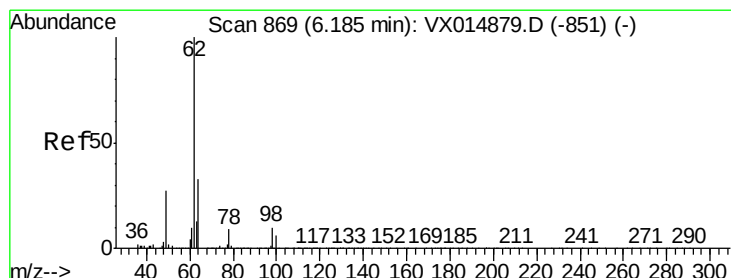
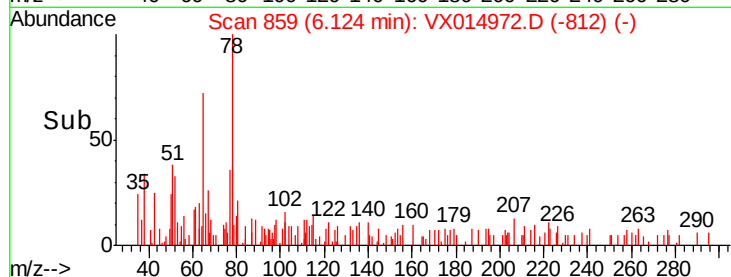
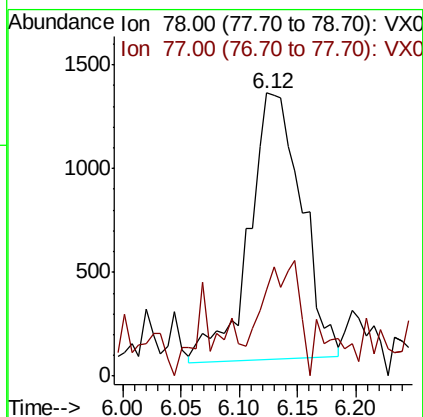
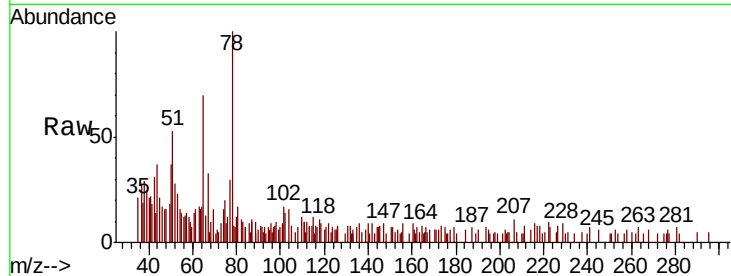
ClientSampled :

Tot Ion: 78 Resp: 4023

Ion Ratio Lower Upper

78 100

77 21.5 18.8 28.2



#42

1,2-Dichloroethane

Concen: 0.245 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014972.D

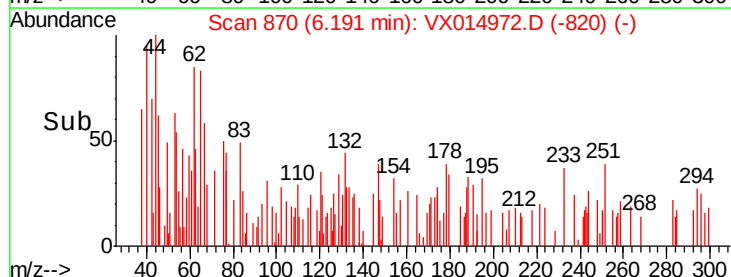
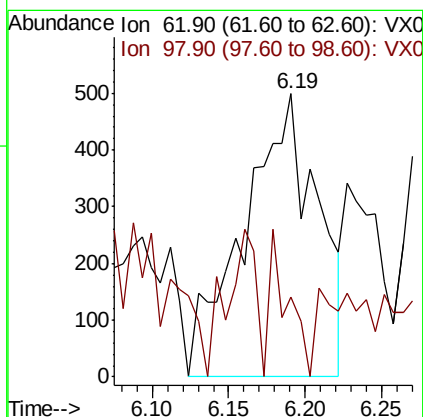
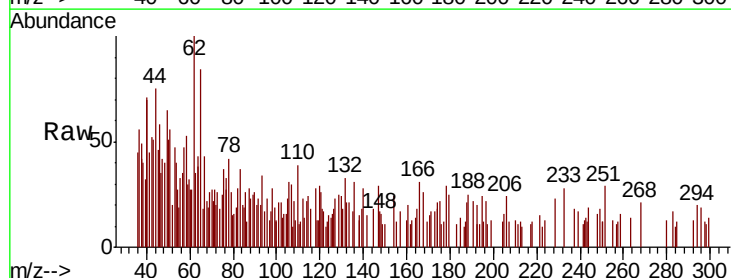
Acq: 20 Feb 2020 12:14

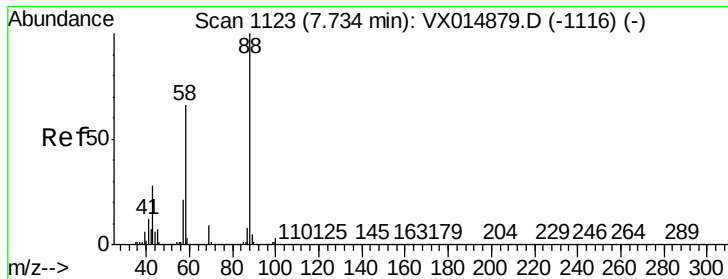
Tgt Ion: 62 Resp: 1657

Ion Ratio Lower Upper

62 100

98 13.3 0.0 19.2

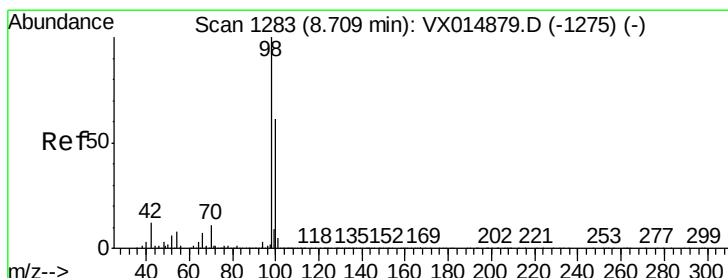
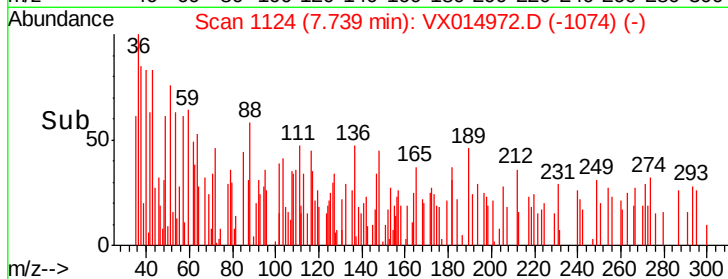
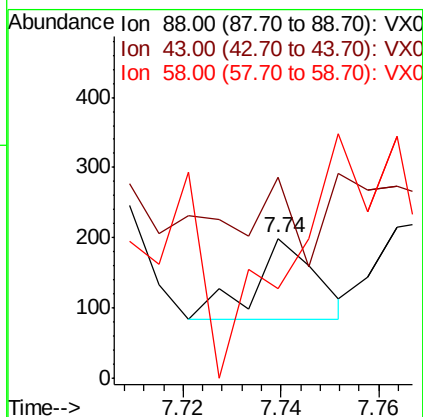
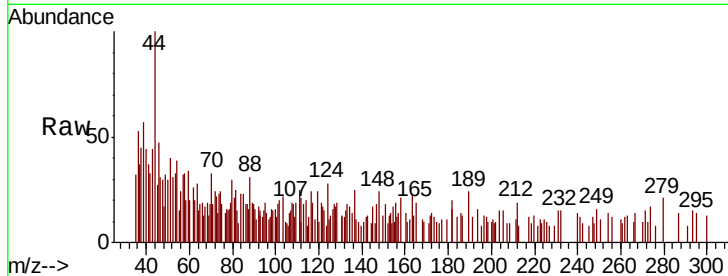




#49
1,4-Dioxane
Concen: 1.027 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

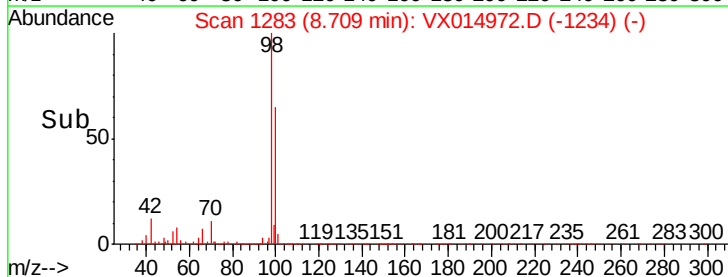
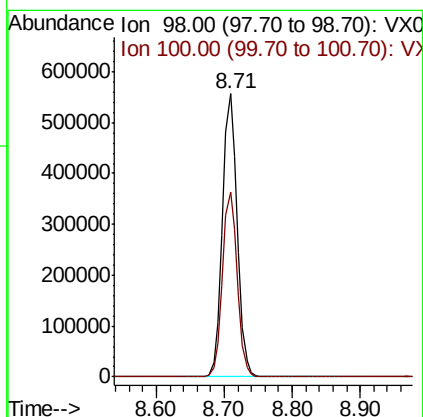
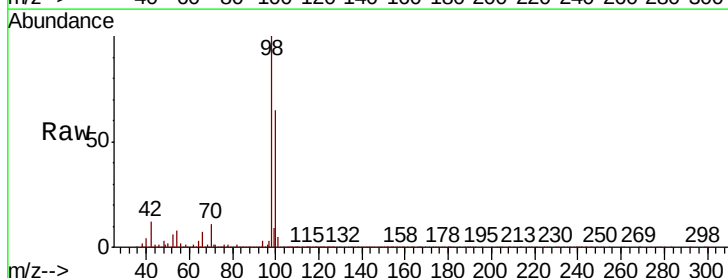
Instrument :
MSVOA_X
ClientSampleId :

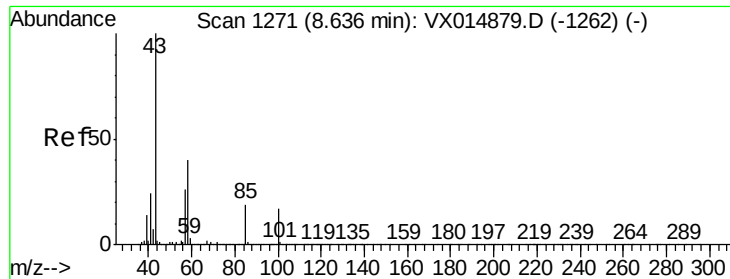
Tot Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 243.1 27.0 40.4#
58 700.0 53.2 79.8#



#50
Toluene-d8
Concen: 50.804 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion: 98 Resp: 836098
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6

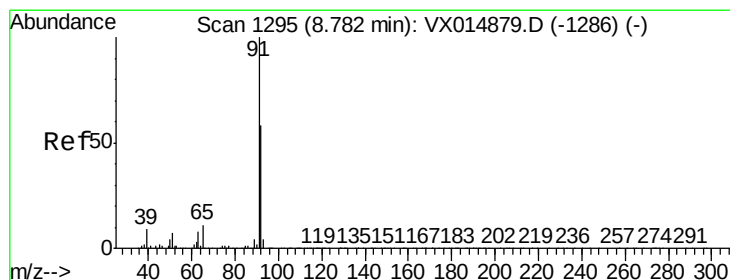
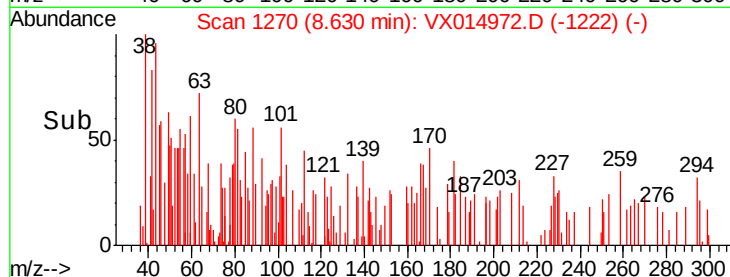
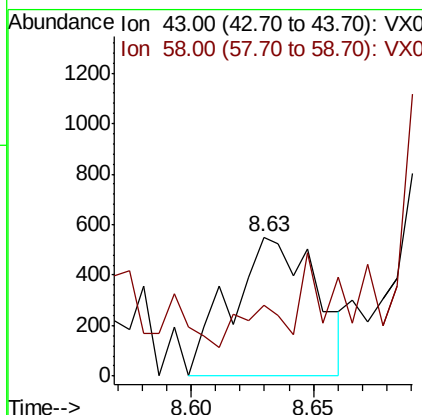
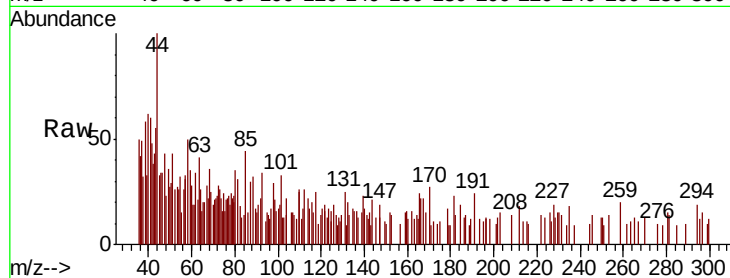




#51
 4-Methyl-2-Pentanone
 Concen: 0.204 ug/l
 RT: 8.63 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VX014972.D
 Acq: 20 Feb 2020 12:14

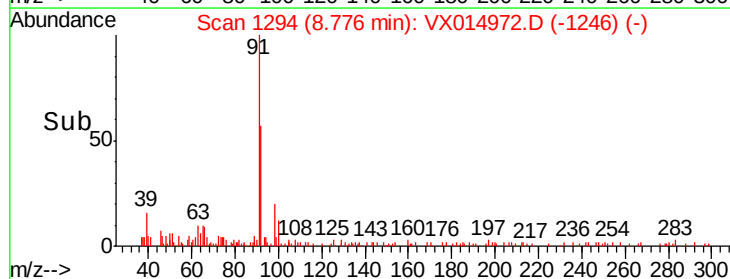
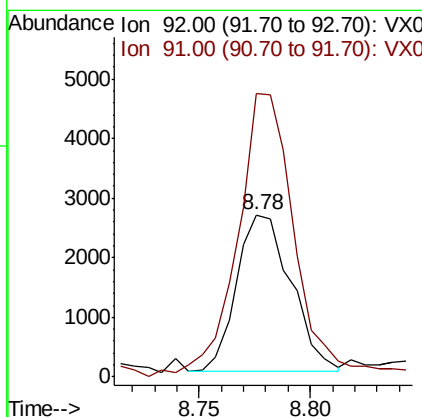
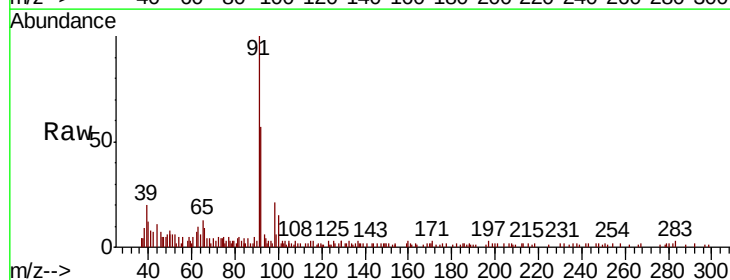
Instrument :
 MSVOA_X
 ClientSampled :

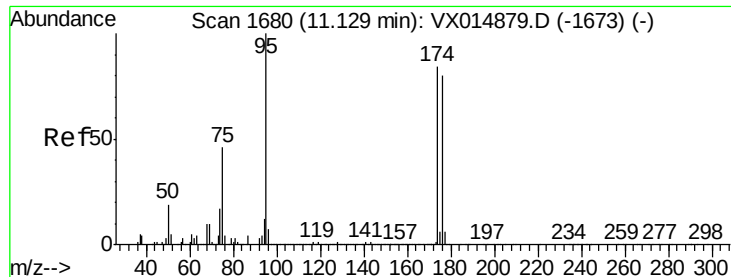
Tot Ion: 43 Resp: 1329
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.9 47.9



#52
 Toluene
 Concen: 0.373 ug/l
 RT: 8.78 min Scan# 1294
 Delta R.T. -0.01 min
 Lab File: VX014972.D
 Acq: 20 Feb 2020 12:14

Tgt Ion: 92 Resp: 4442
 Ion Ratio Lower Upper
 92 100
 91 193.6 137.0 205.4





#62

4-Bromofluorobenzene

Concen: 51.182 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

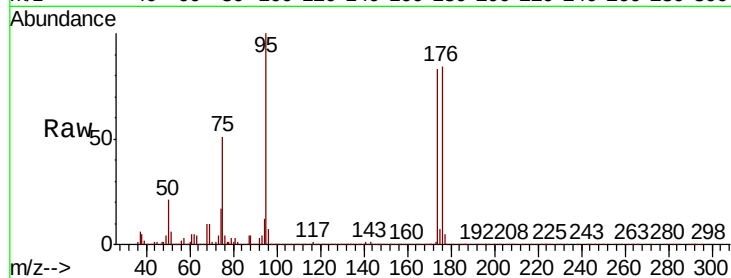
Tot Ion: 95 Resp: 303432

Ion Ratio Lower Upper

95 100

174 92.5 0.0 183.0

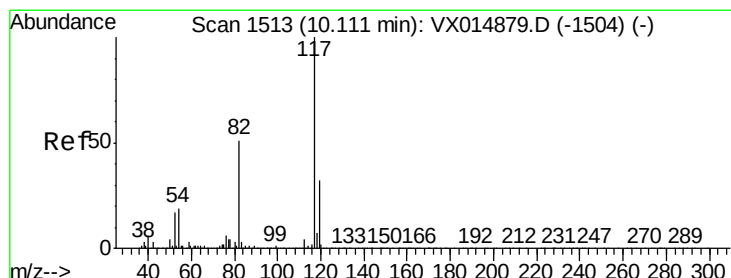
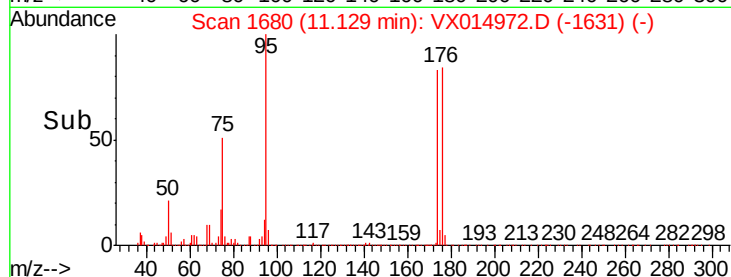
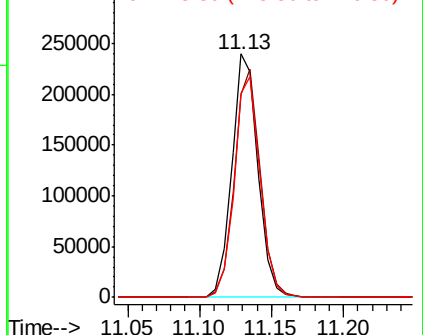
176 90.2 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

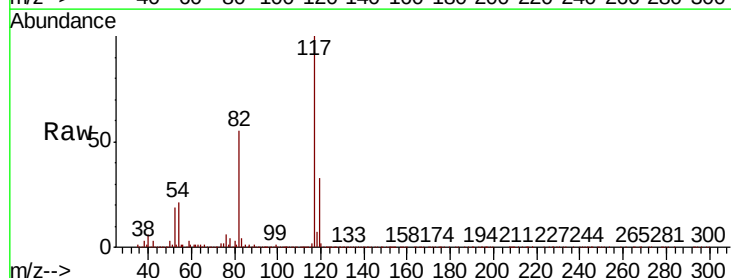
Tgt Ion: 117 Resp: 657200

Ion Ratio Lower Upper

117 100

82 54.5 40.5 60.7

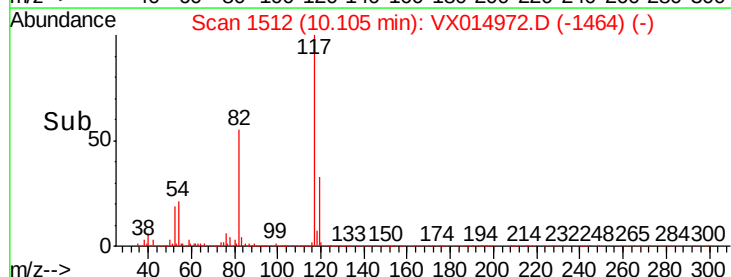
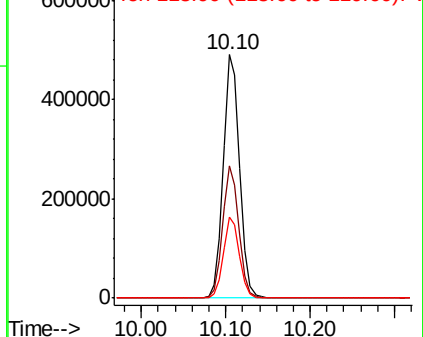
119 33.1 25.8 38.6

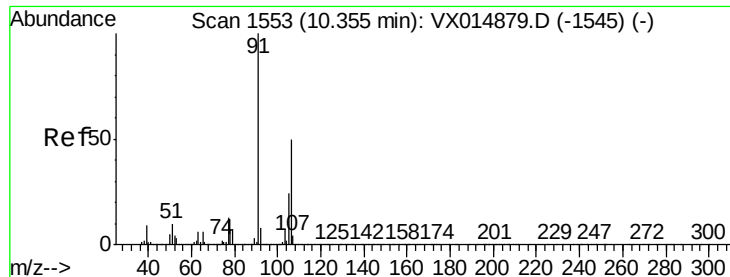


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xylenes

Concen: 0.359 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

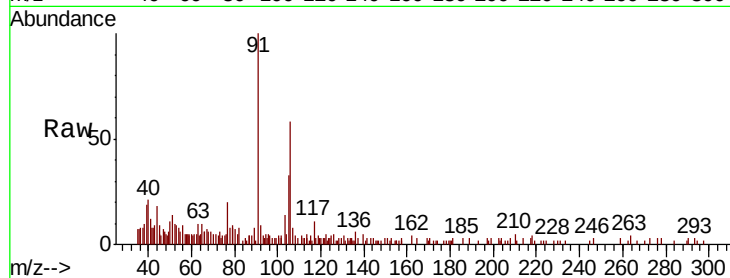
ClientSampleId :

Tot Ion:106 Resp: 3136

Ion Ratio Lower Upper

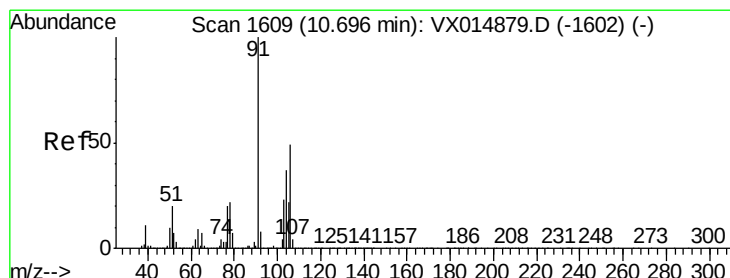
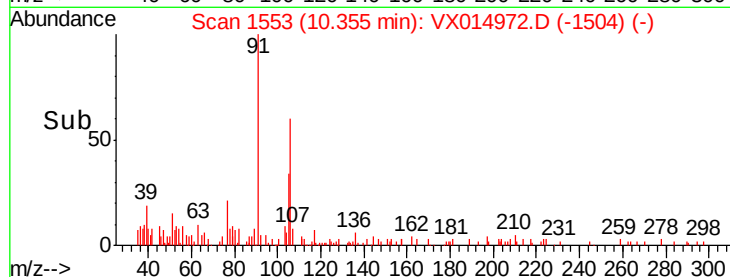
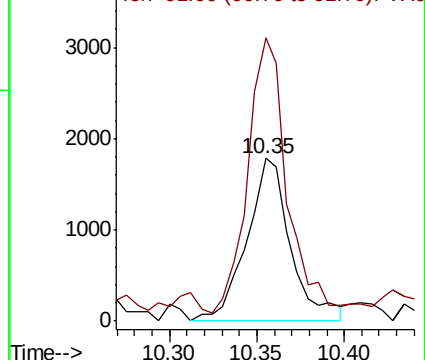
106 100

91 149.2 160.6 240.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.440 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. -0.00 min

Lab File: VX014972.D

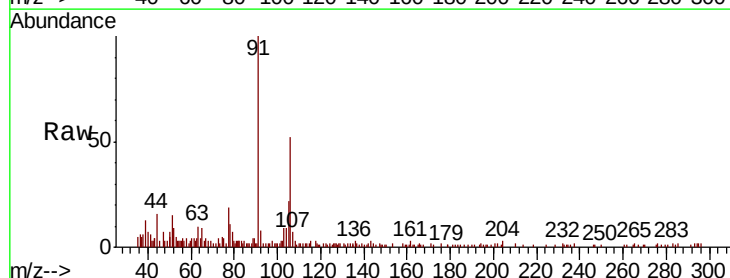
Acq: 20 Feb 2020 12:14

Tgt Ion:106 Resp: 3693

Ion Ratio Lower Upper

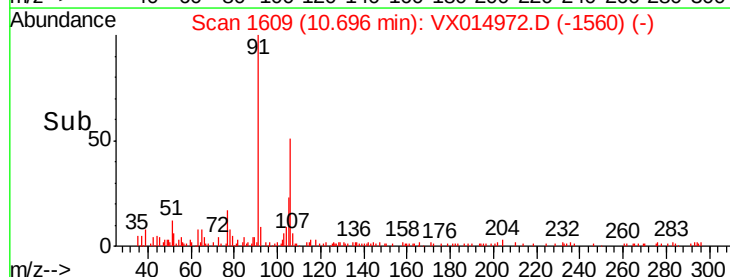
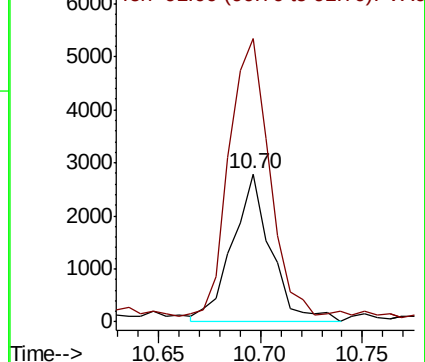
106 100

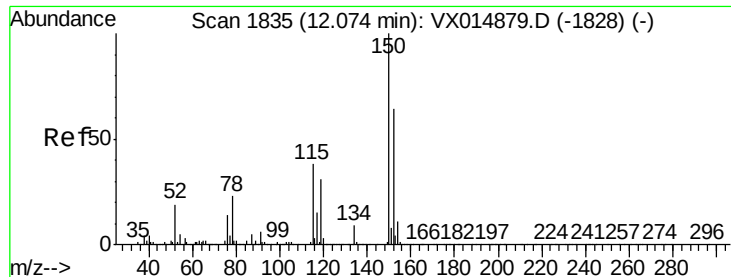
91 193.5 105.1 315.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



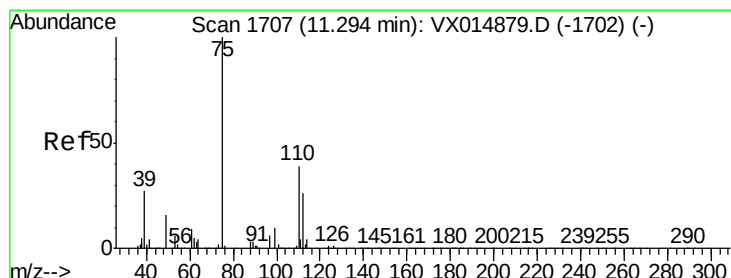
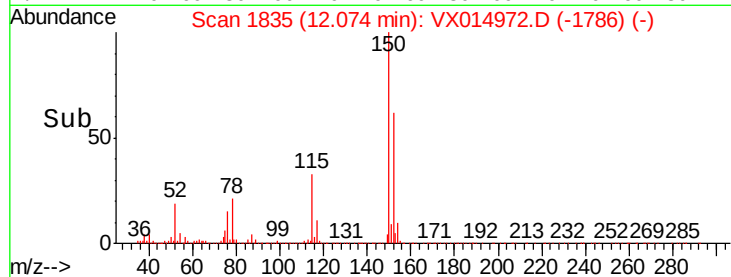
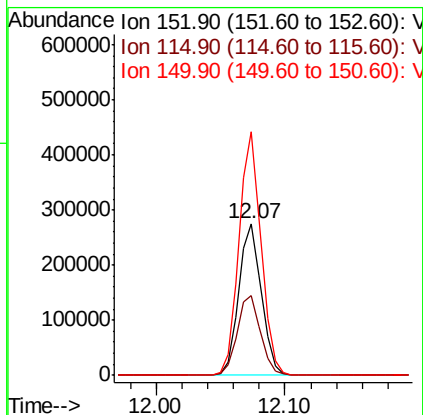
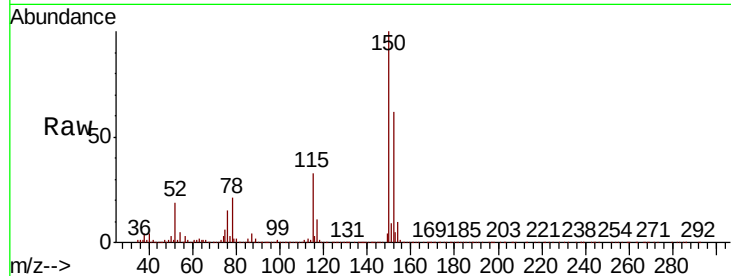


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Instrument :
MSVOA_X
ClientSampleId :

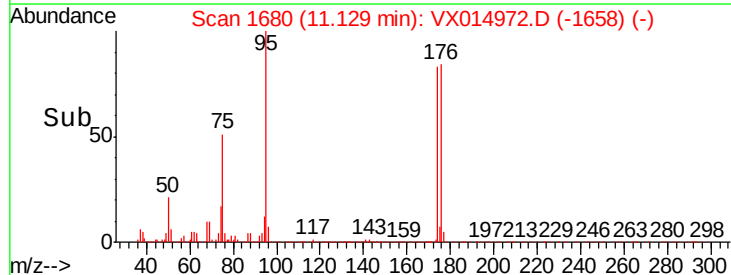
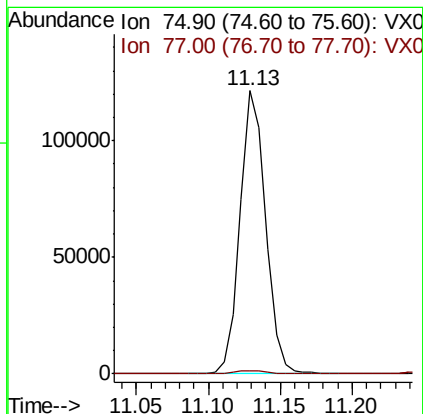
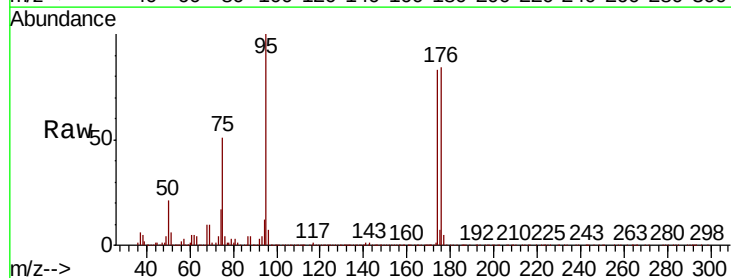
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	38.6	116.0
150	157.0	0.0	349.0

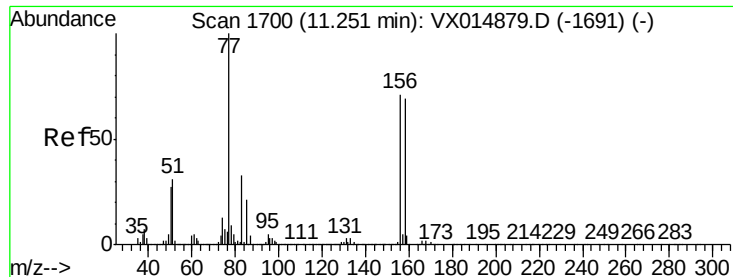


#76

1,2,3-Trichloropropane
Concen: 24.786 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.4	55.0





#77

Bromobenzene

Concen: 0.201 ug/l

RT: 11.24 min Scan# 1699

Delta R.T. -0.01 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

ClientSampled :

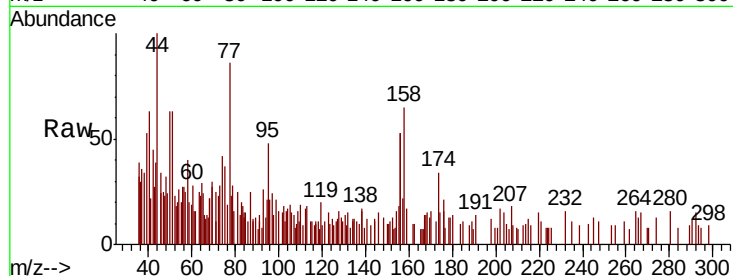
Tot Ion:156 Resp: 1173

Ion Ratio Lower Upper

156 100

77 94.6 74.0 222.0

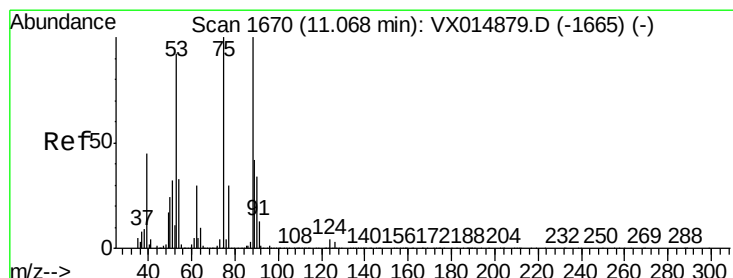
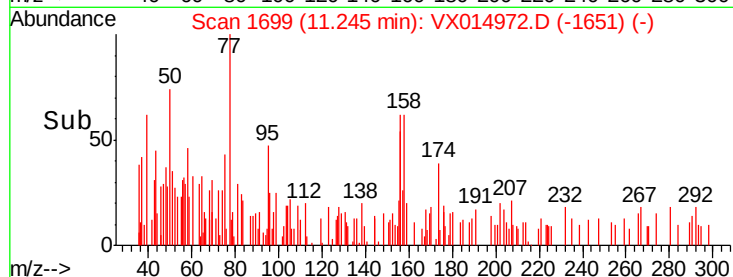
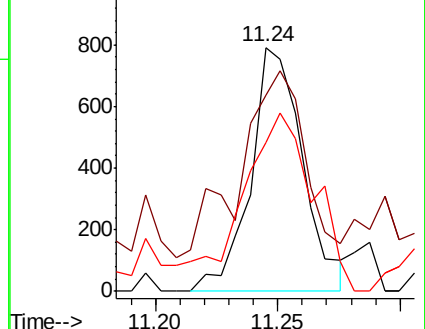
158 100.6 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 63.445 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

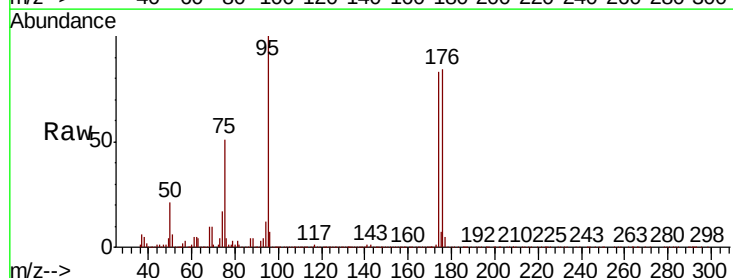
Tgt Ion: 75 Resp: 149744

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

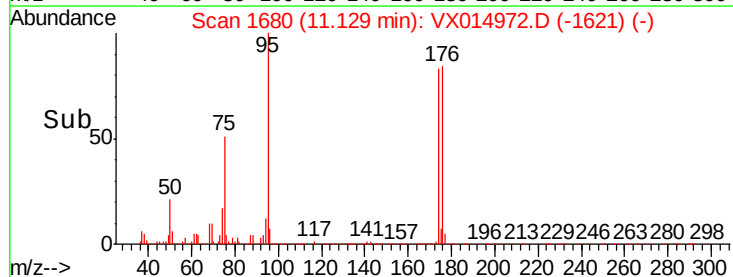
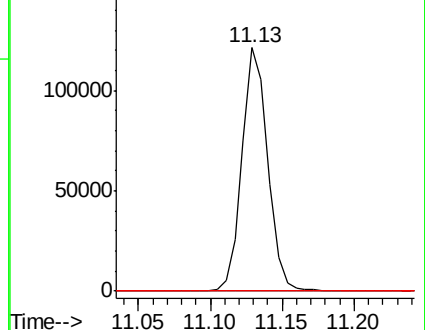
89 0.3 35.8 53.6#

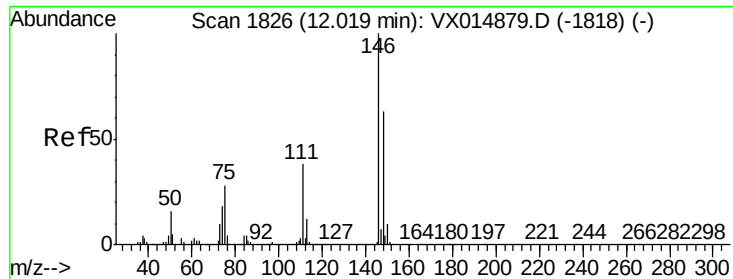


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

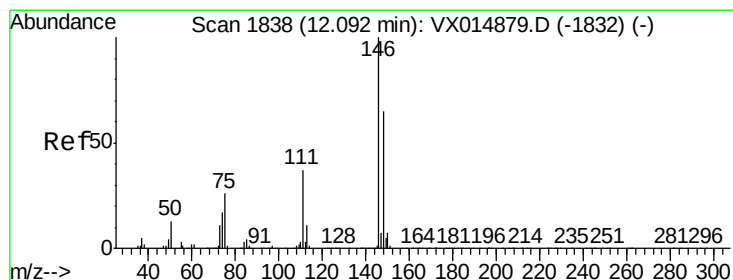
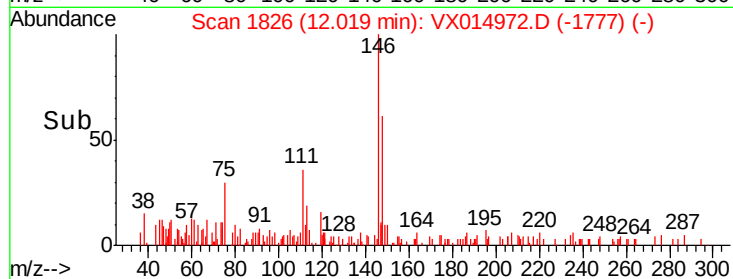
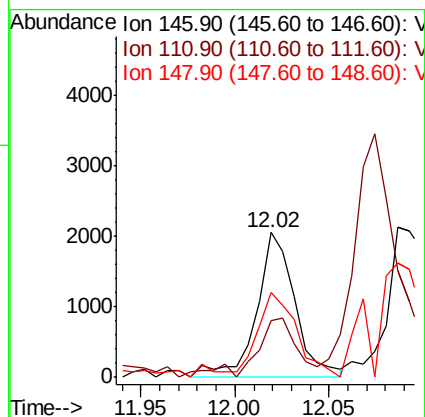
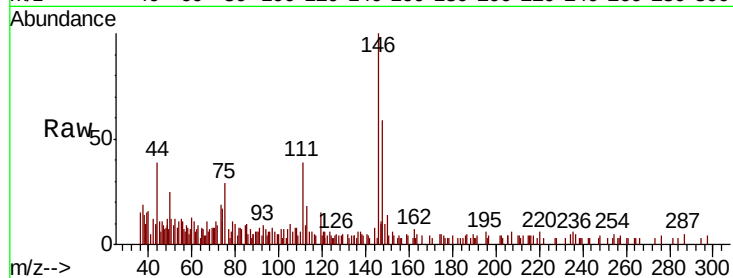




#87
 1,3-Dichlorobenzene
 Concen: 0.279 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX014972.D
 Acq: 20 Feb 2020 12:14

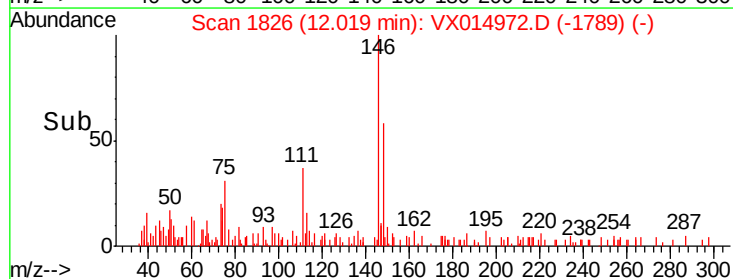
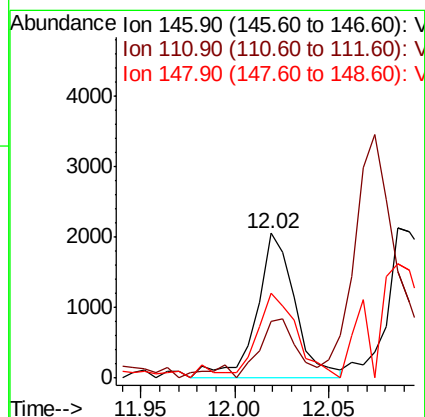
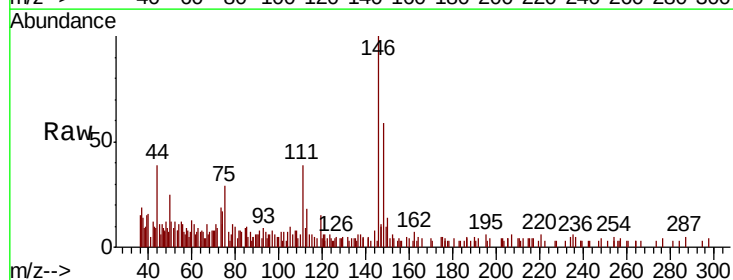
Instrument :
 MSVOA_X
 ClientSampleId :

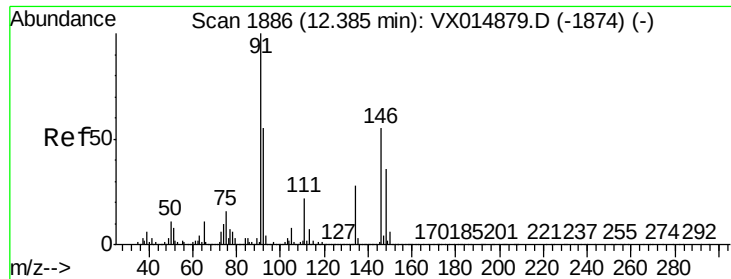
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	18.6	56.0
148	59.9	31.8	95.4



#88
 1,4-Dichlorobenzene
 Concen: 0.273 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.07 min
 Lab File: VX014972.D
 Acq: 20 Feb 2020 12:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.8	18.6	55.6
148	59.9	32.4	97.0

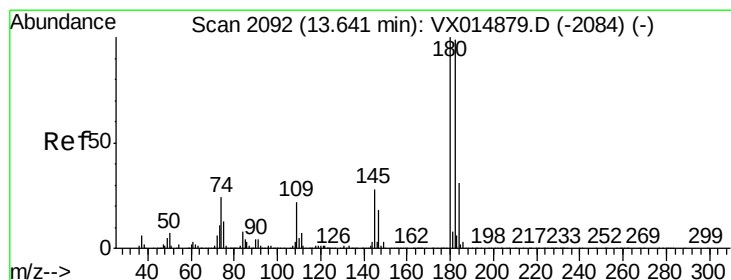
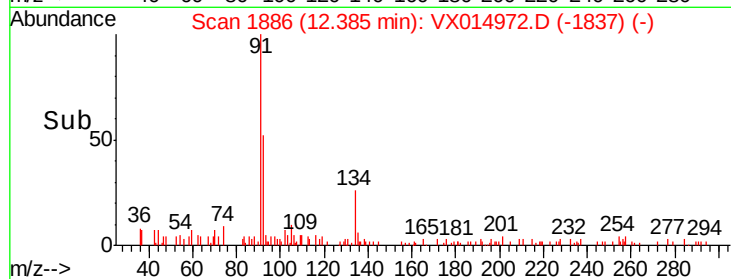
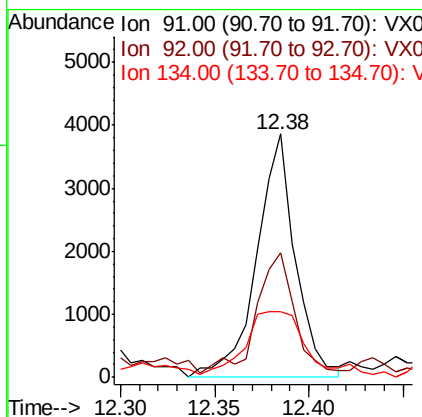
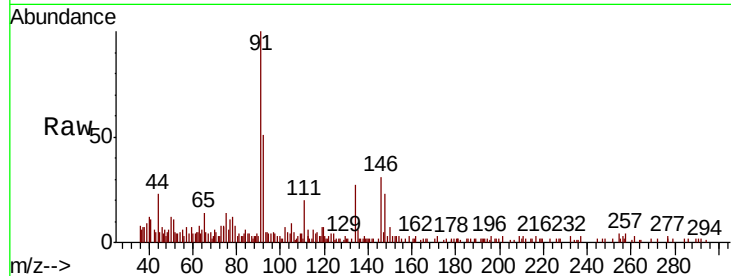




#89
n-Butylbenzene
Concen: 0.318 ug/l
RT: 12.38 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

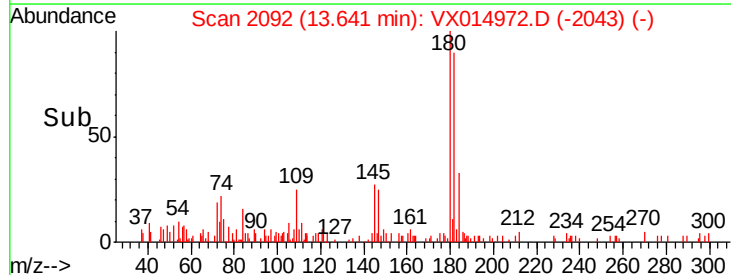
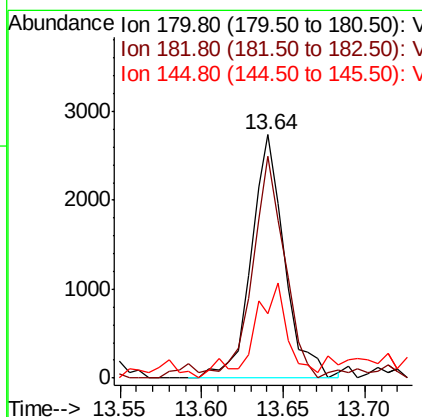
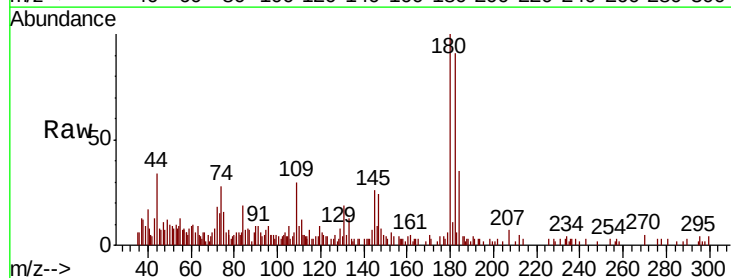
Instrument :
MSVOA_X
ClientSampled :

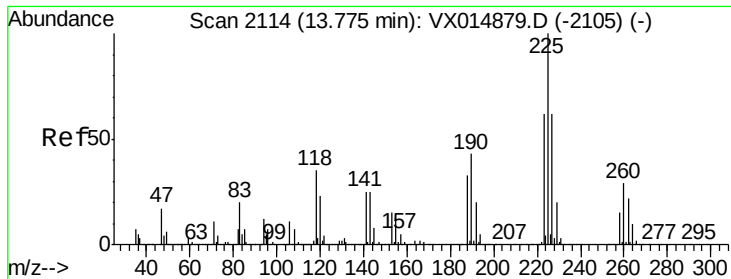
Tot Ion	Ratio	Lower	Upper
91	100		
92	48.3	27.3	81.8
134	44.5	13.8	41.4



#93
1,2,4-Trichlorobenzene
Concen: 0.511 ug/l
RT: 13.64 min Scan# 2092
Delta R.T. -0.00 min
Lab File: VX014972.D
Acq: 20 Feb 2020 12:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.4	48.4	145.3
145	30.5	14.1	42.4





#94

Hexachlorobutadiene

Concen: 0.576 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014972.D

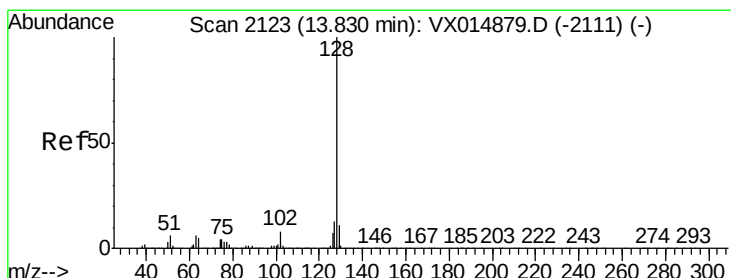
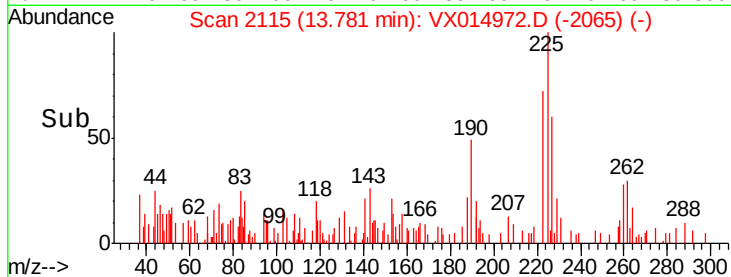
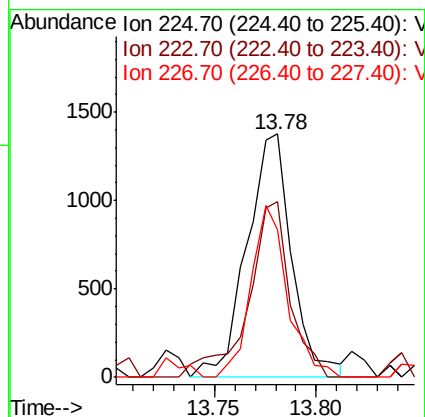
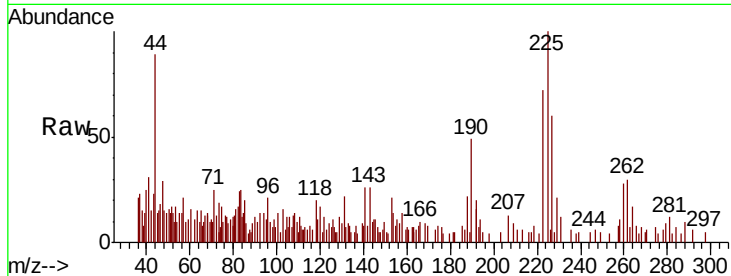
Acq: 20 Feb 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	2116
Ion	Ratio	Lower	Upper
225	100		
223	67.4	31.1	93.2
227	57.5	30.9	92.5



#95

Naphthalene

Concen: 0.495 ug/l

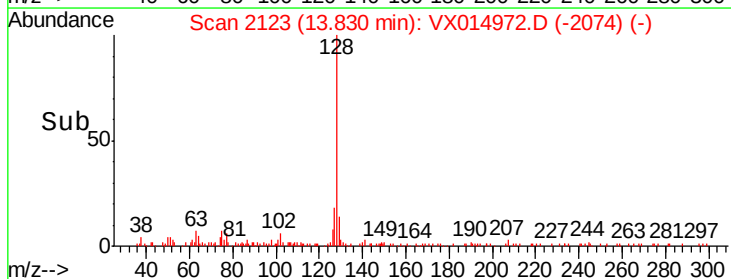
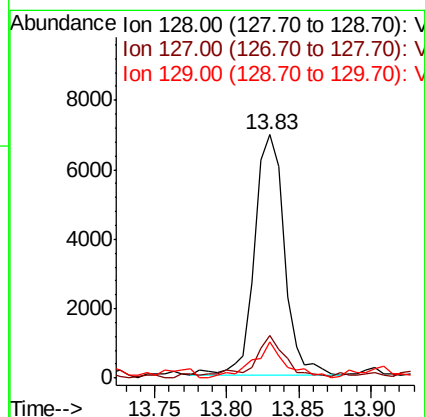
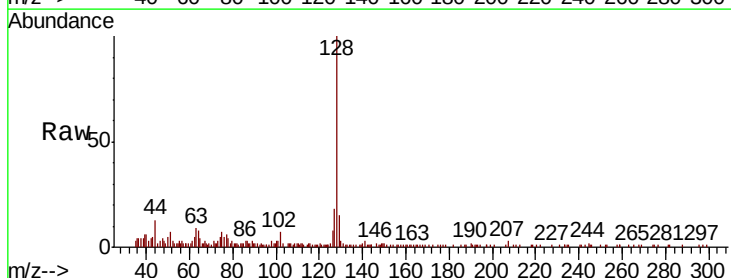
RT: 13.83 min Scan# 2123

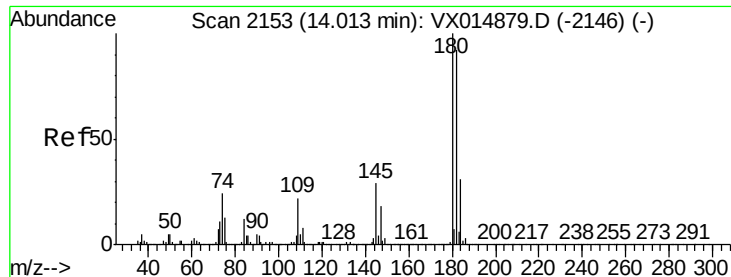
Delta R.T. -0.00 min

Lab File: VX014972.D

Acq: 20 Feb 2020 12:14

Tgt Ion:	128	Resp:	9996
Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.4	15.6#
129	16.6	8.6	13.0#

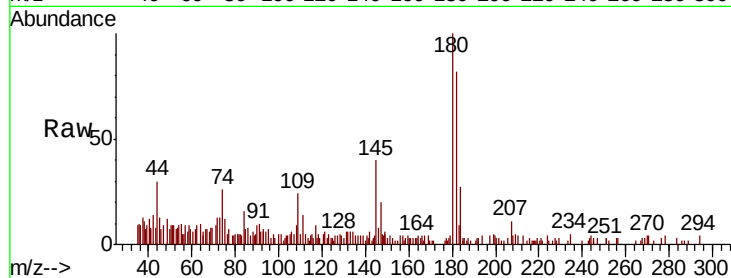




#96
 1,2,3-Trichlorobenzene
 Concen: 0.524 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX014972.D
 Acq: 20 Feb 2020 12:14

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.3	47.5	142.6
145	44.3	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

