

Data File : VX015190.D
Acq On : 11 Mar 2020 11:15
Operator : JC/SP
Sample : L1860-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Quant Time: Mar 12 05:44:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	319599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	525281	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	501329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	248510	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	202942	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
35) Dibromofluoromethane	5.49	113	168316	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
50) Toluene-d8	8.71	98	635424	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.13	95	227990	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	

Target Compounds

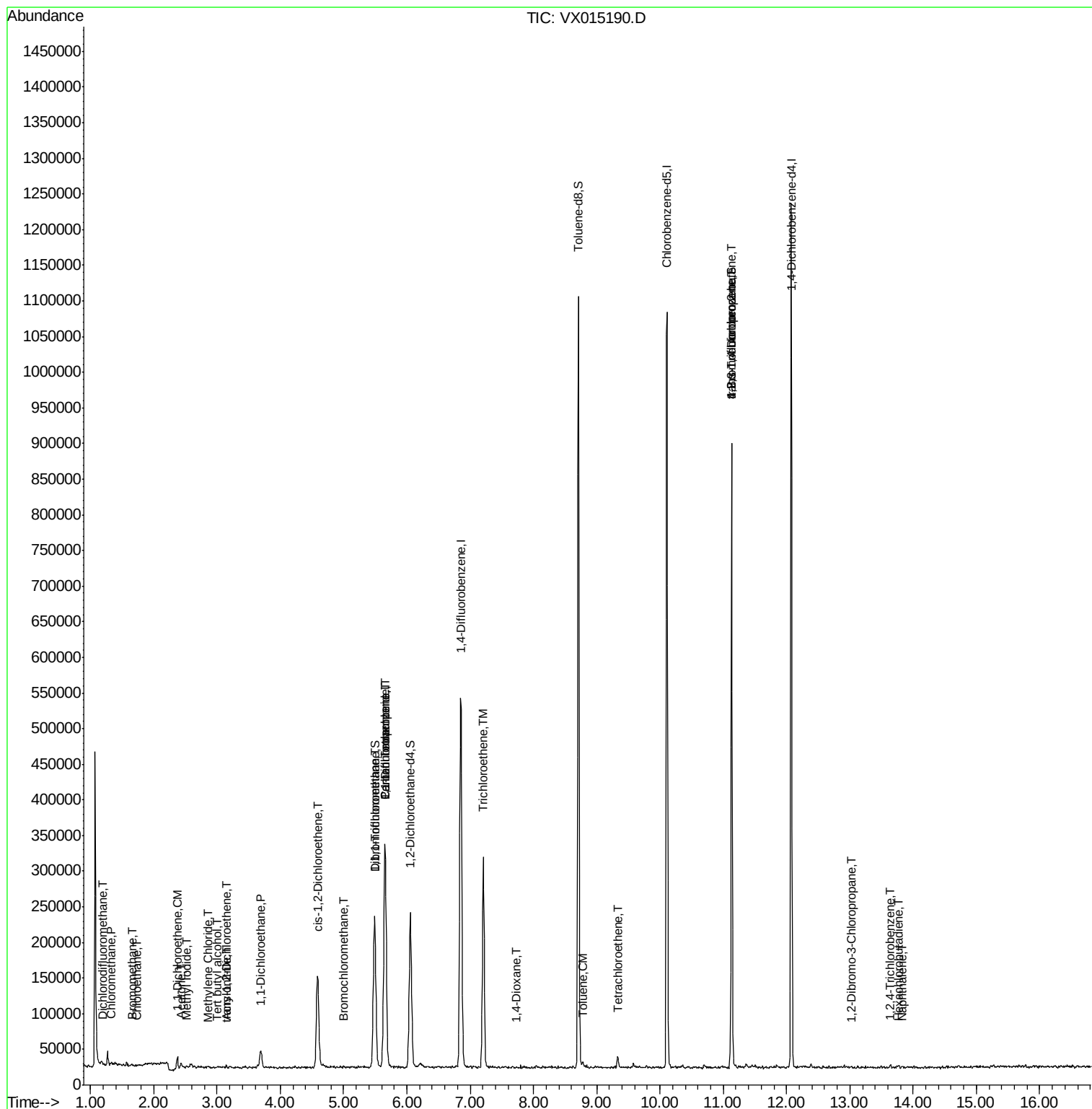
						Qvalue
2) Dichlorodifluoromethane	1.19	85	592	0.212	ug/l	78
3) Chloromethane	1.32	50	867	0.219	ug/l	99
5) Bromomethane	1.65	94	1002	0.405	ug/l	88
6) Chloroethane	1.74	64	644	0.267	ug/l #	42
10) Methyl Iodide	2.51	142	1682	0.495	ug/l #	73
11) Tert butyl alcohol	3.01	59	1157	1.759	ug/l	96
12) 1,1-Dichloroethene	2.37	96	7145	2.301	ug/l	84
15) Acrylonitrile	3.15	53	572	0.349	ug/l #	21
16) Acetone	2.43	43	6648	4.329	ug/l	89
20) Methylene Chloride	2.85	84	756	0.210	ug/l #	70
21) trans-1,2-Dichloroethene	3.16	96	774	0.233	ug/l #	25
24) 1,1-Dichloroethane	3.69	63	27831	4.648	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	84301	22.659	ug/l	89
28) Bromochloromethane	5.00	49	567	0.208	ug/l #	42
32) 1,1,1-Trichloroethane	5.49	97	16355	3.380	ug/l	95
36) 1,1-Dichloropropene	5.65	75	22291	4.590	ug/l #	54
38) Carbon Tetrachloride	5.65	117	28498	6.217	ug/l #	19
44) Trichloroethene	7.21	130	114219	28.467	ug/l	99
49) 1,4-Dioxane	7.74	88	646	7.408	ug/l #	43
52) Toluene	8.78	92	2883	0.327	ug/l	99
64) Tetrachloroethene	9.33	164	2882	0.695	ug/l #	78
76) 1,2,3-Trichloropropane	11.13	75	114469	23.092	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	114469	65.536	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.02	75	849	0.801	ug/l #	2
93) 1,2,4-Trichlorobenzene	13.64	180	1345	0.251	ug/l	70
94) Hexachlorobutadiene	13.77	225	654	0.237	ug/l	83
95) Naphthalene	13.83	128	1937	1.534	ug/l #	72

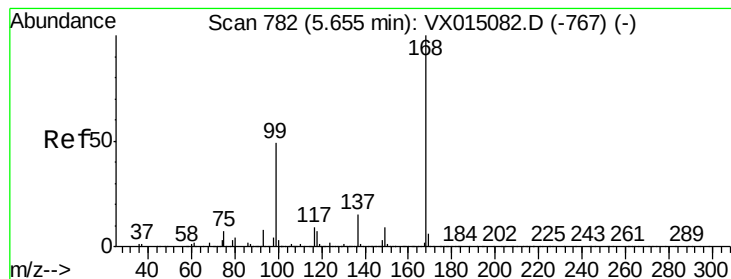
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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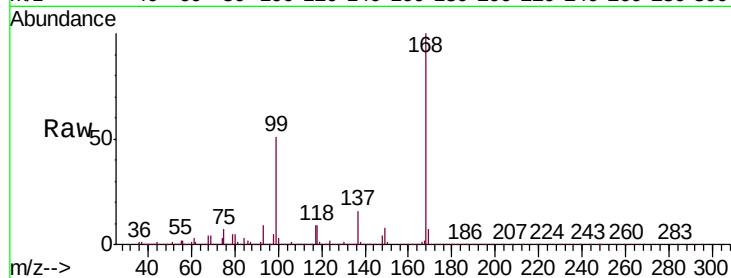


#1

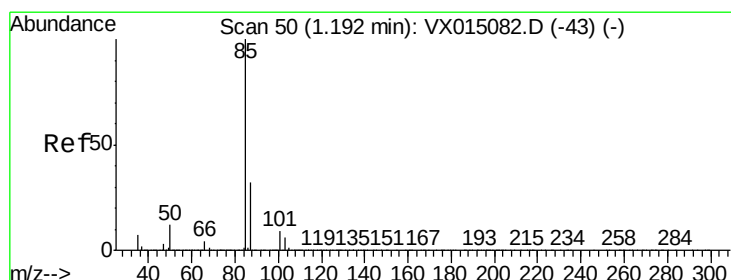
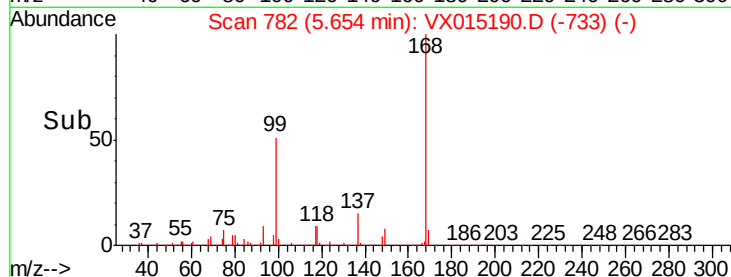
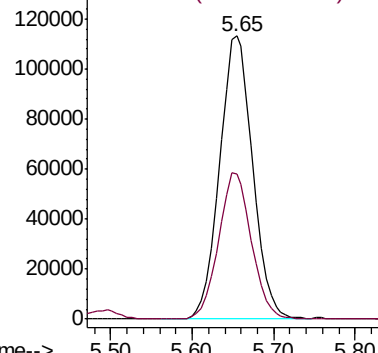
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Tgt Ion:168 Resp: 319599
 Ion Ratio Lower Upper
 168 100
 99 51.1 39.4 59.2



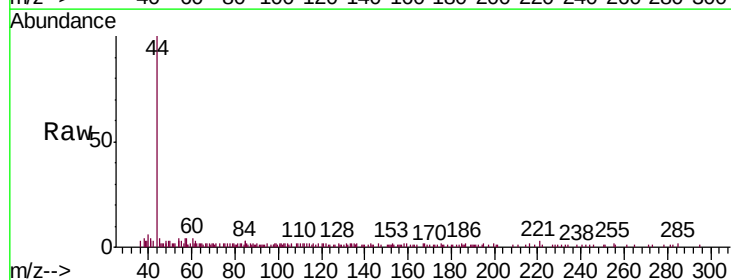
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



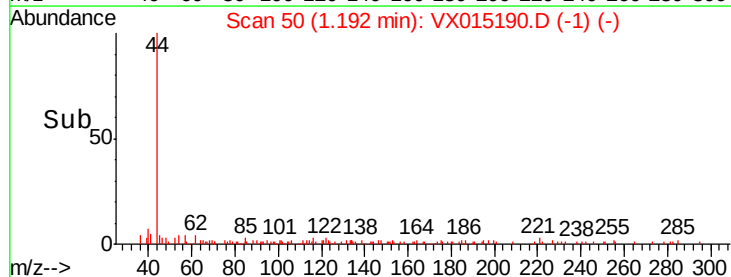
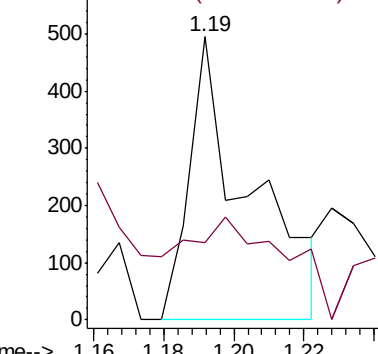
#2

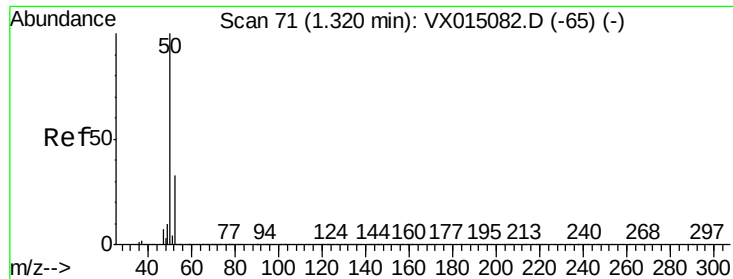
Dichlorodifluoromethane
 Concen: 0.212 ug/l
 RT: 1.19 min Scan# 50
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion: 85 Resp: 592
 Ion Ratio Lower Upper
 85 100
 87 19.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0
 Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.219 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampled :

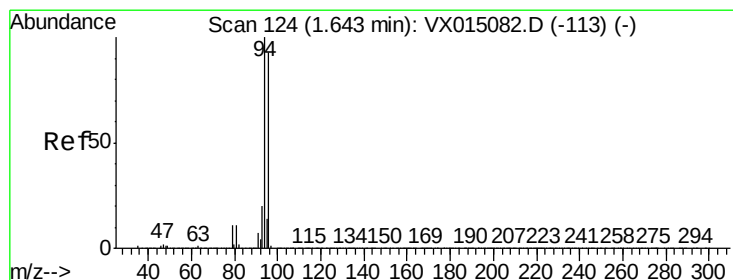
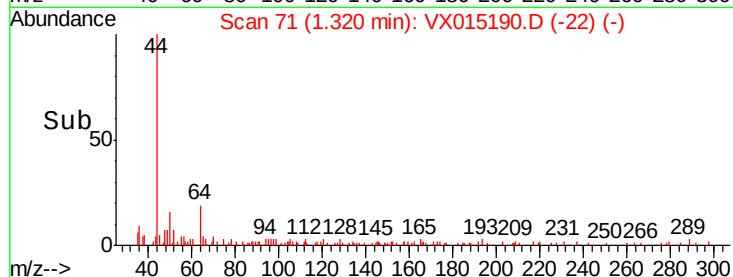
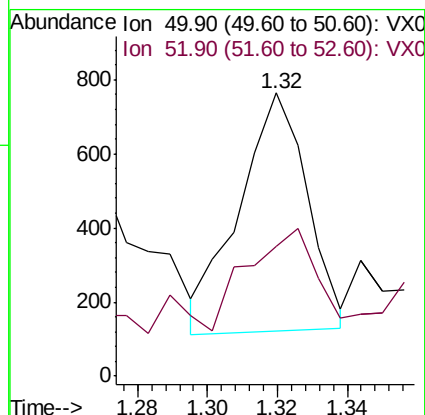
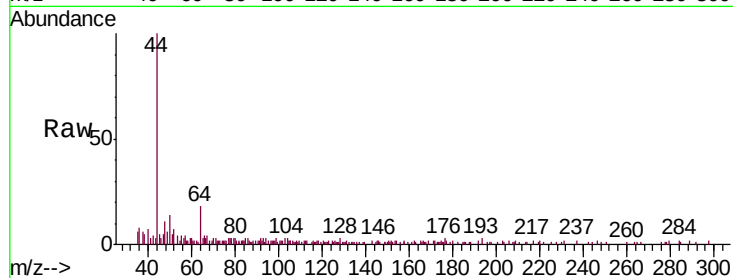
MW-3

Tgt Ion: 50 Resp: 867

Ion Ratio Lower Upper

50 100

52 33.3 26.2 39.2



#5

Bromomethane

Concen: 0.405 ug/l

RT: 1.65 min Scan# 126

Delta R.T. 0.01 min

Lab File: VX015190.D

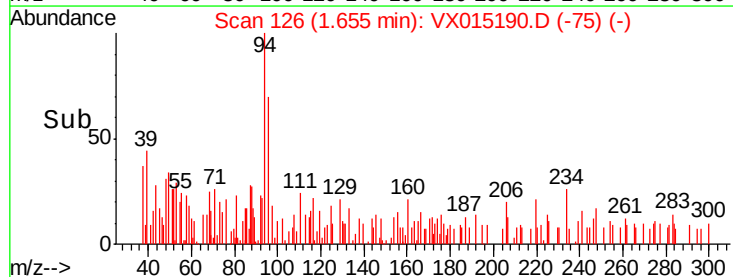
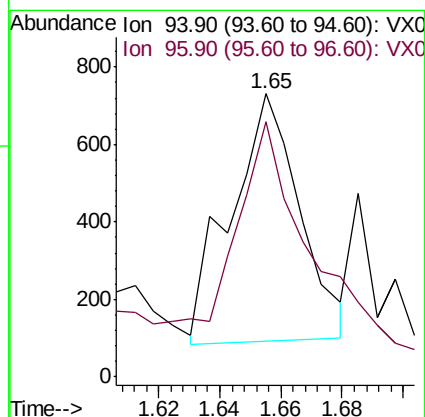
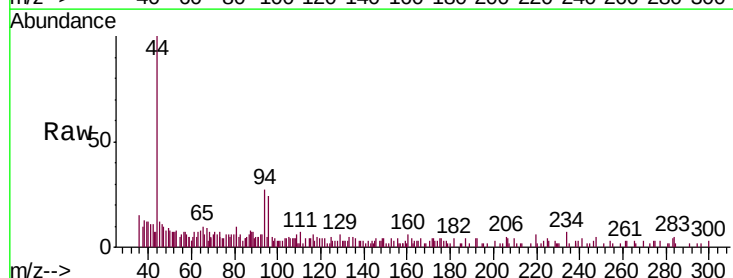
Acq: 11 Mar 2020 11:15

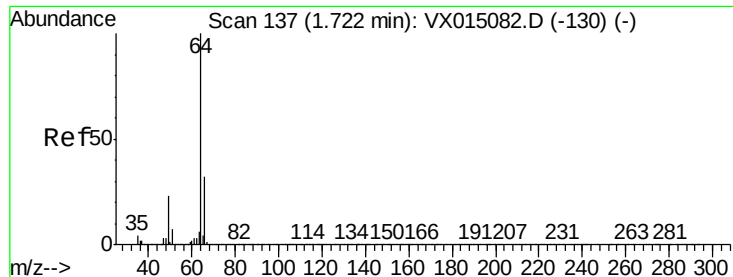
Tgt Ion: 94 Resp: 1002

Ion Ratio Lower Upper

94 100

96 81.7 74.6 111.8





#6

Chloroethane

Concen: 0.267 ug/l

RT: 1.74 min Scan# 140

Delta R.T. 0.02 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampleId :

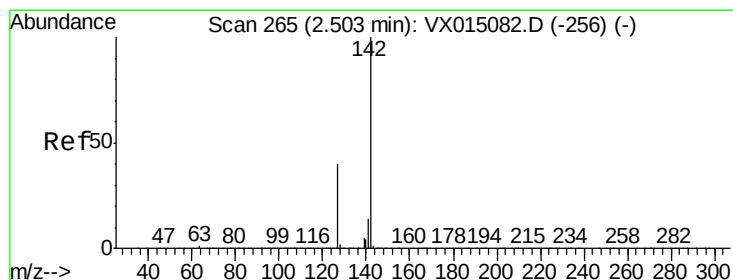
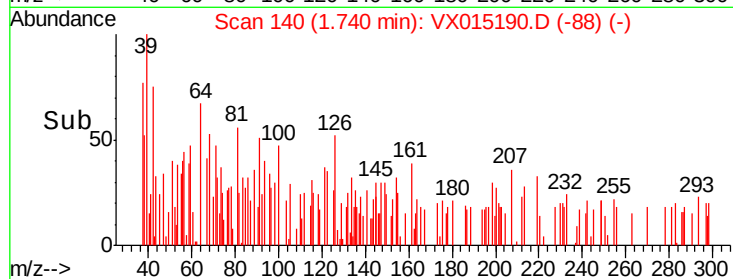
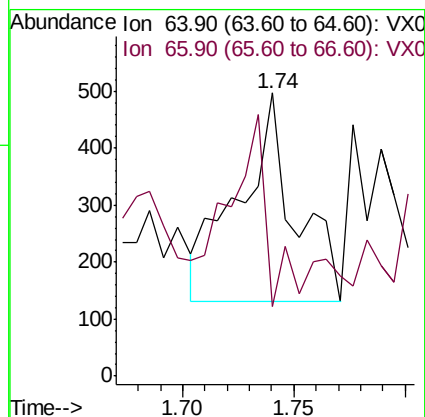
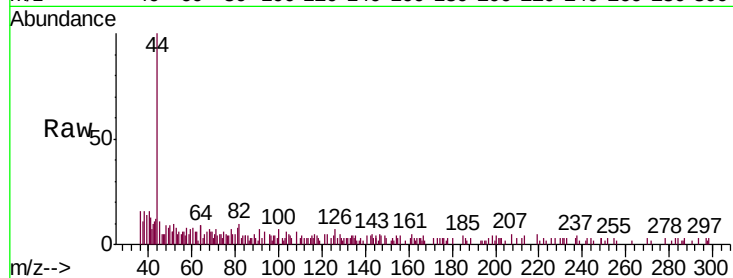
MW-3

Tgt Ion: 64 Resp: 644

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.8#



#10

Methyl Iodide

Concen: 0.495 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

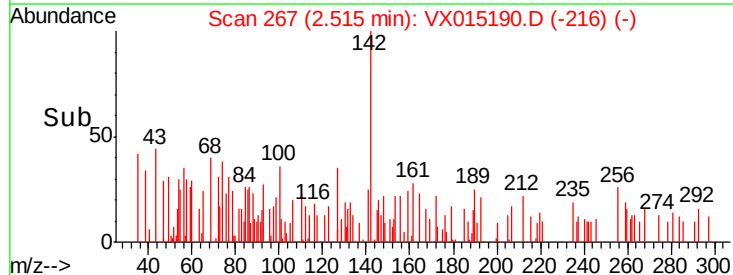
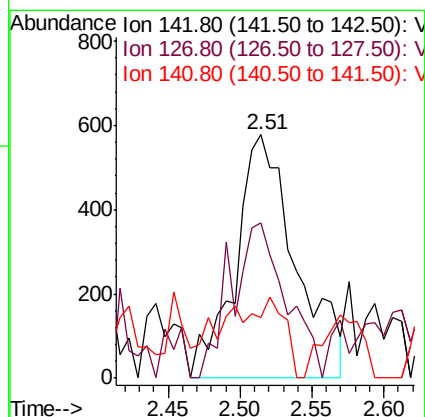
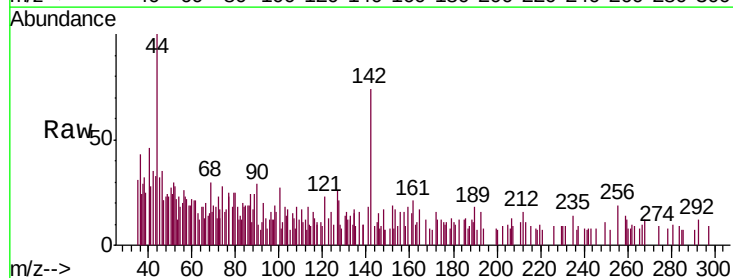
Tgt Ion: 142 Resp: 1682

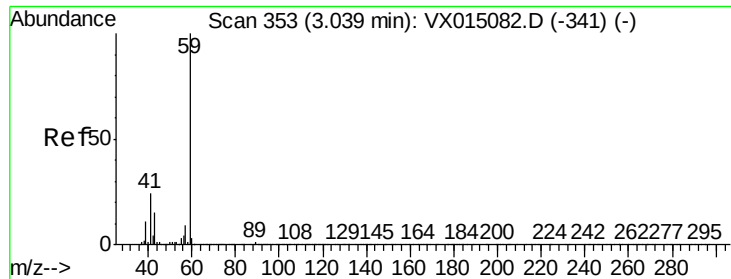
Ion Ratio Lower Upper

142 100

127 58.3 31.7 47.5#

141 6.2 11.3 16.9#



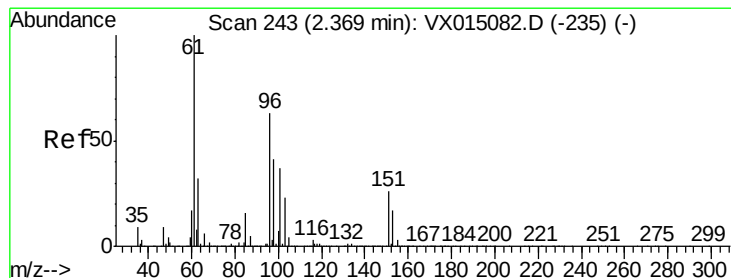
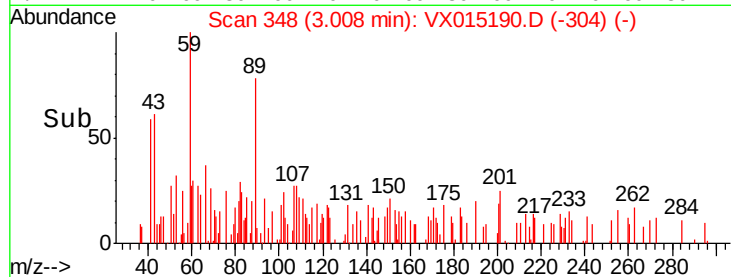
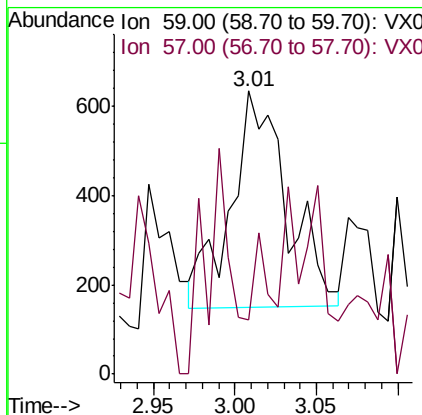
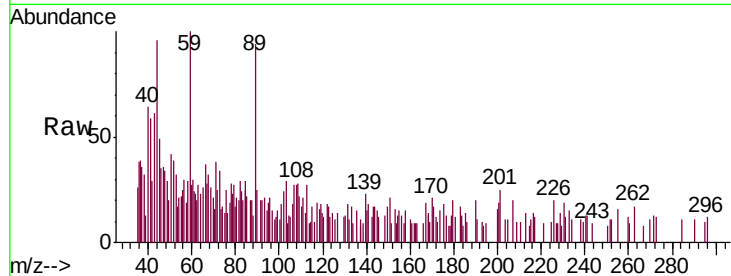


#11

Tert butyl alcohol
 Concen: 1.759 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

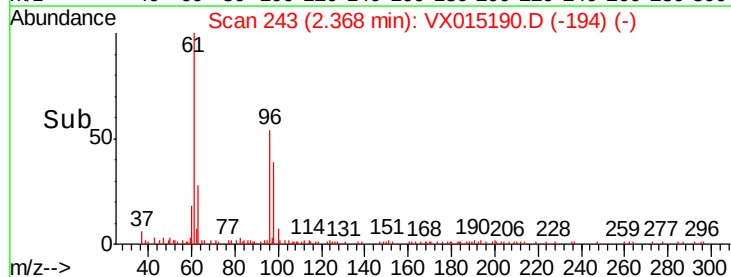
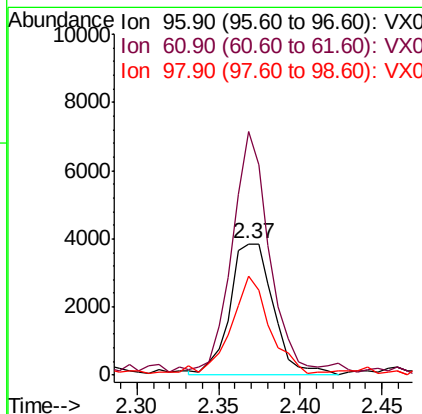
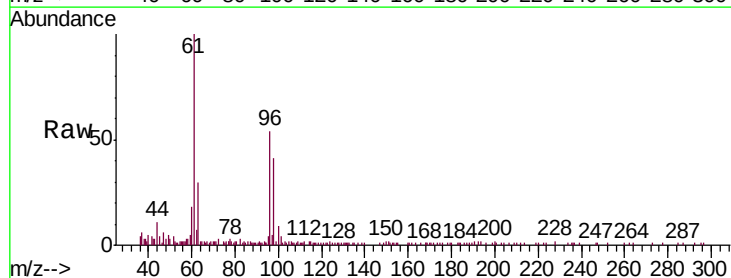
Tgt Ion: 59 Resp: 1157
 Ion Ratio Lower Upper
 59 100
 57 9.0 8.2 12.4

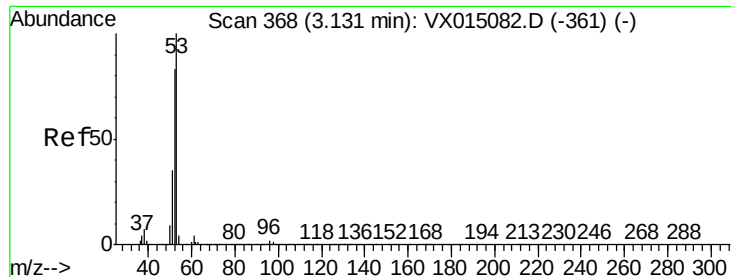


#12

1,1-Dichloroethene
 Concen: 2.301 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion: 96 Resp: 7145
 Ion Ratio Lower Upper
 96 100
 61 180.9 126.2 189.4
 98 72.6 51.4 77.0





#15

Acrylonitrile

Concen: 0.349 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampled :

MW-3

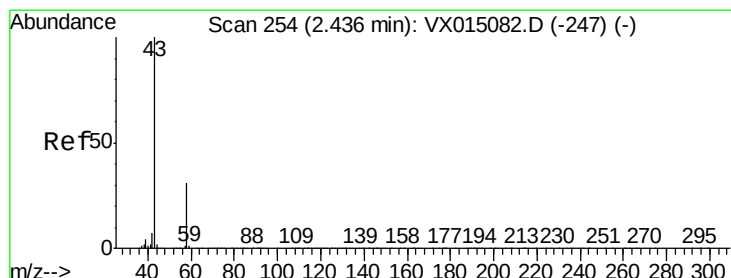
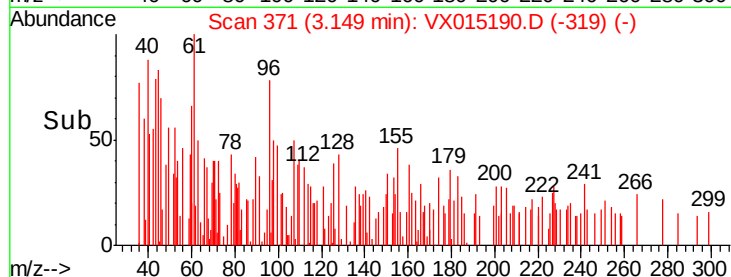
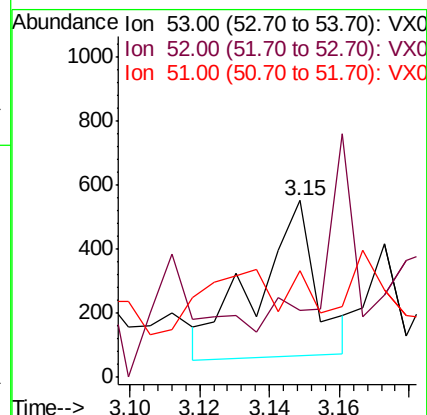
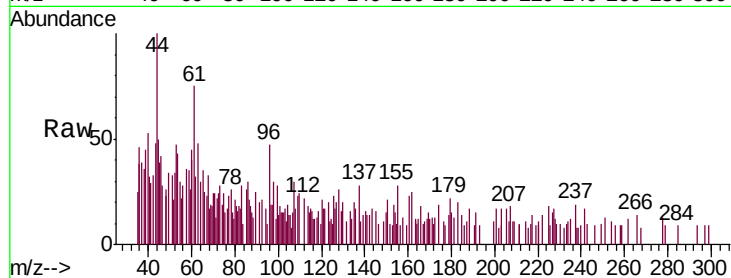
Tgt Ion: 53 Resp: 572

Ion Ratio Lower Upper

53 100

52 0.0 66.6 100.0#

51 64.5 29.0 43.6#



#16

Acetone

Concen: 4.329 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015190.D

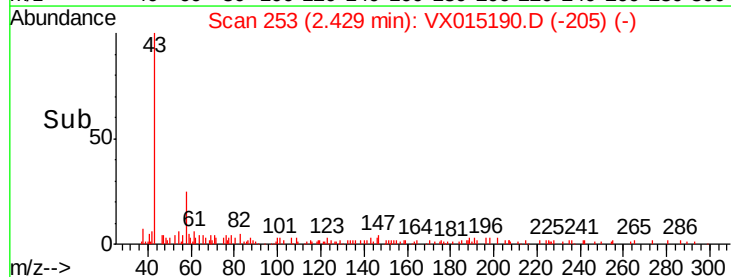
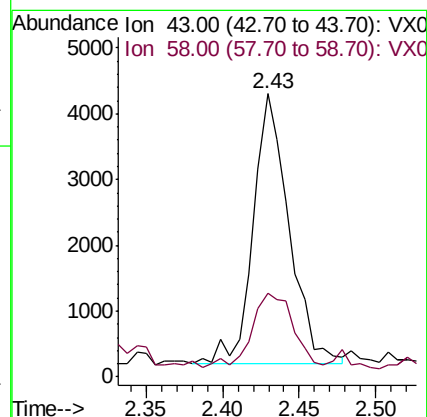
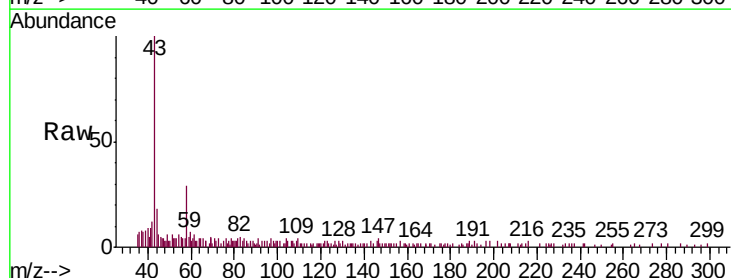
Acq: 11 Mar 2020 11:15

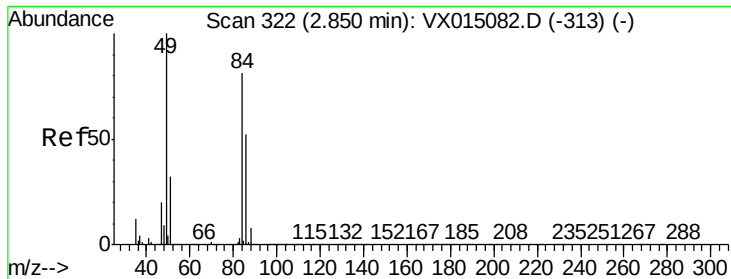
Tgt Ion: 43 Resp: 6648

Ion Ratio Lower Upper

43 100

58 24.8 24.8 37.2

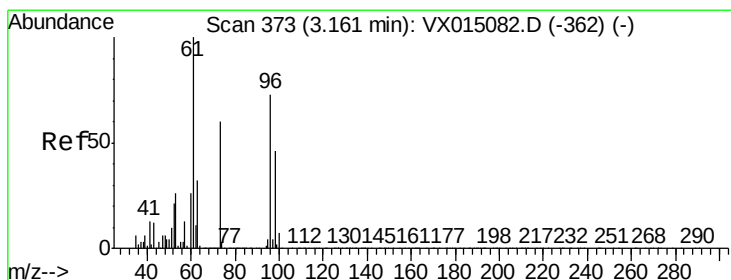
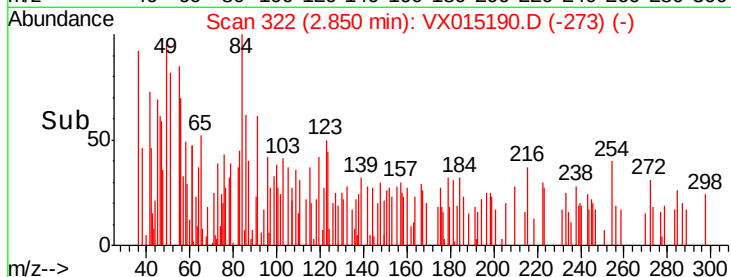
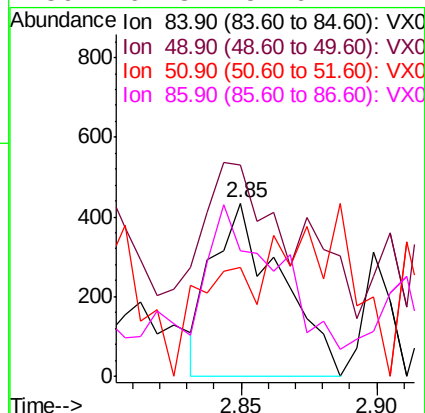
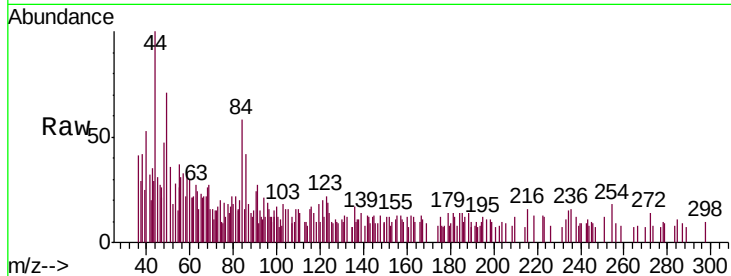




#20
Methylene Chloride
Concen: 0.210 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

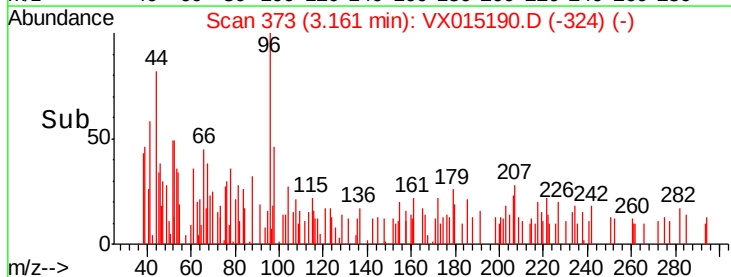
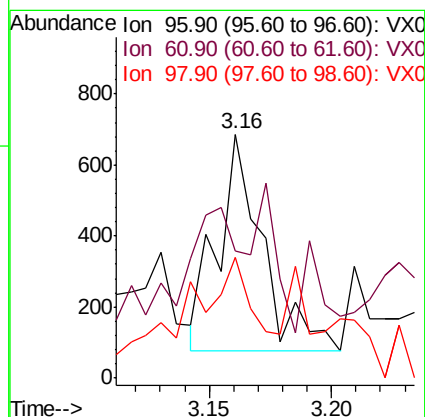
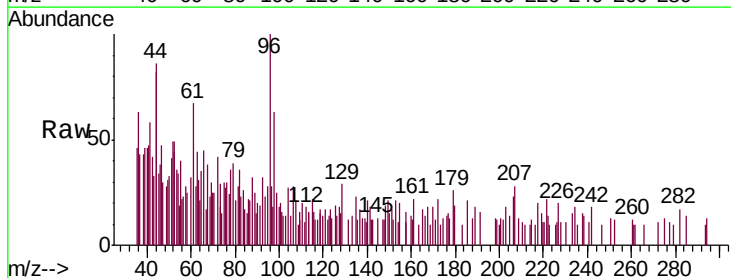
Instrument :
MSVOA_X
ClientSampled :
MW-3

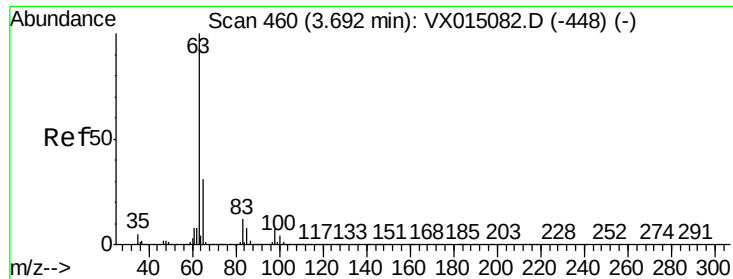
Tgt Ion:	84	Resp:	756
Ion	Ratio	Lower	Upper
84	100		
49	78.3	99.4	149.2#
51	13.1	31.5	47.3#
86	64.8	51.6	77.4



#21
trans-1,2-Dichloroethene
Concen: 0.233 ug/l
RT: 3.16 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Tgt Ion:	96	Resp:	774
Ion	Ratio	Lower	Upper
96	100		
61	30.4	109.9	164.9#
98	28.4	50.2	75.2#

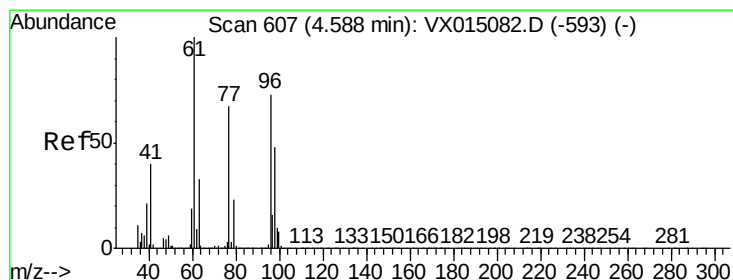
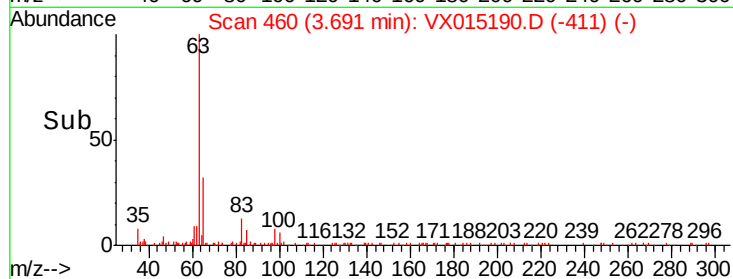
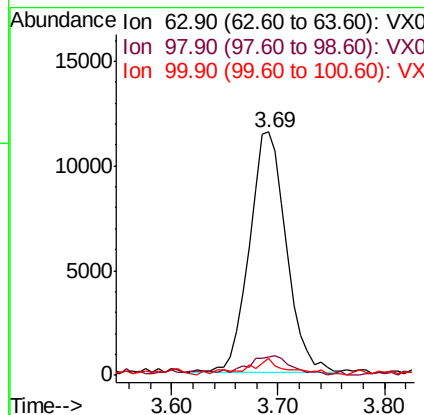
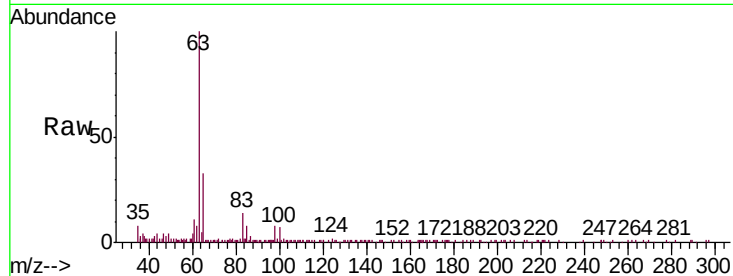




#24
 1,1-Dichloroethane
 Concen: 4.648 ug/l
 RT: 3.69 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

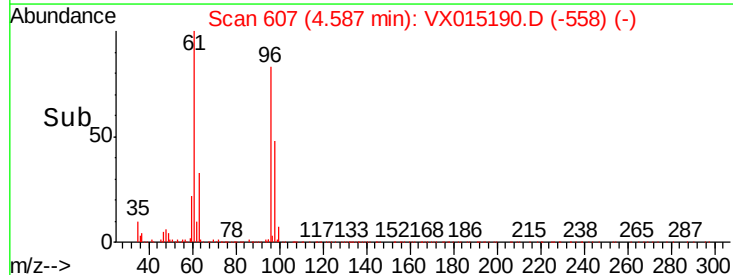
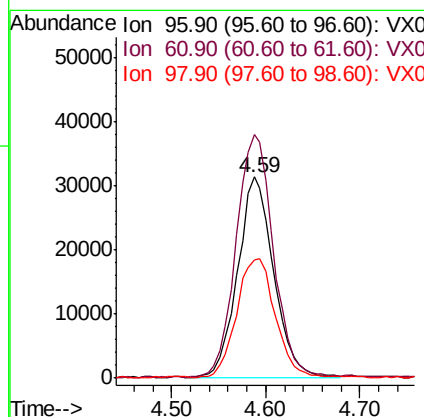
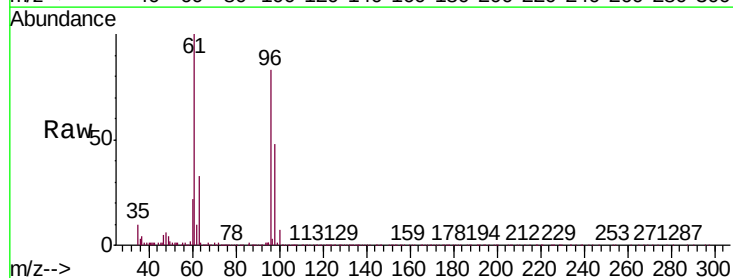
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

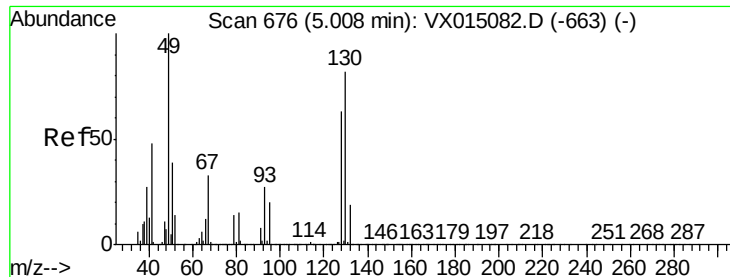
Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.7	11.1
100	5.6	2.1	6.5



#27
 cis-1,2-Dichloroethene
 Concen: 22.659 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.1	0.0	286.8
98	63.5	0.0	128.4





#28

Bromochloromethane

Concen: 0.208 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampleId :

MW-3

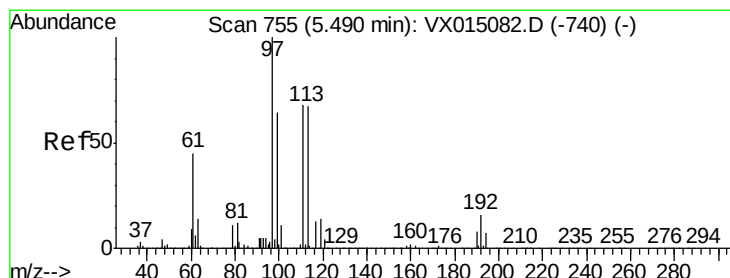
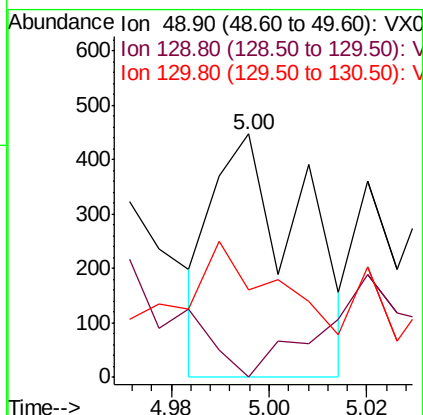
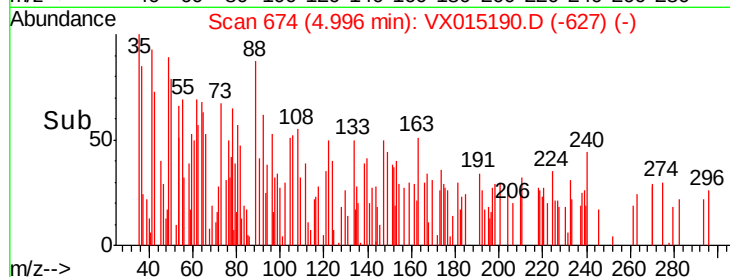
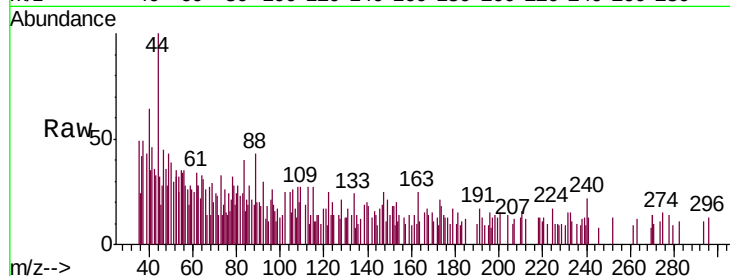
Tgt Ion: 49 Resp: 567

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 28.4 65.0 97.6#



#32

1,1,1-Trichloroethane

Concen: 3.380 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

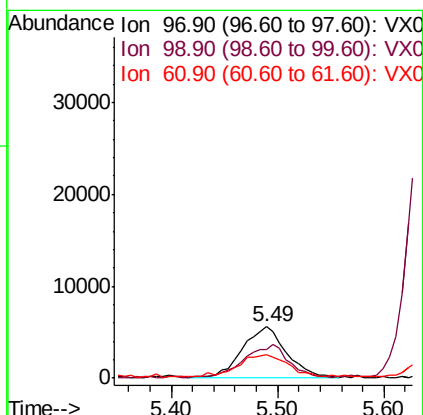
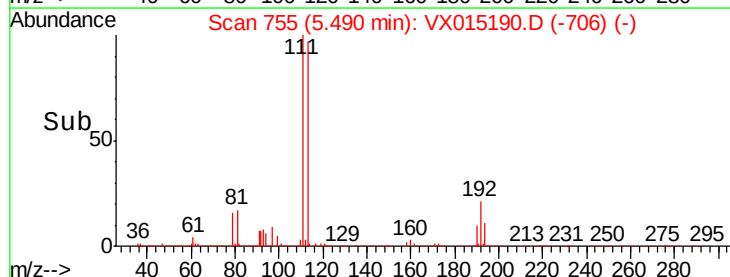
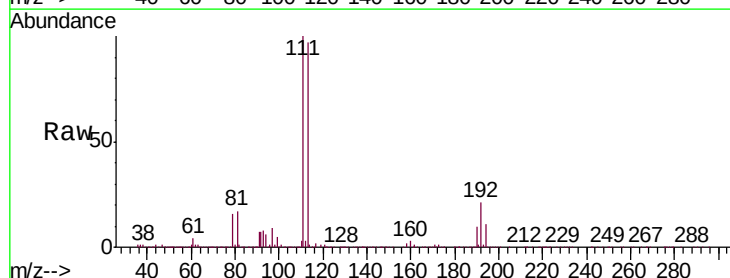
Tgt Ion: 97 Resp: 16355

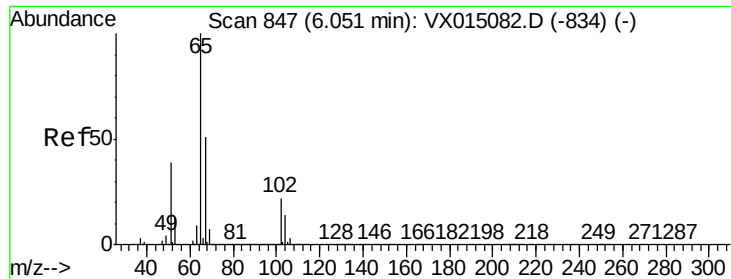
Ion Ratio Lower Upper

97 100

99 62.2 52.8 79.2

61 49.1 36.6 54.8

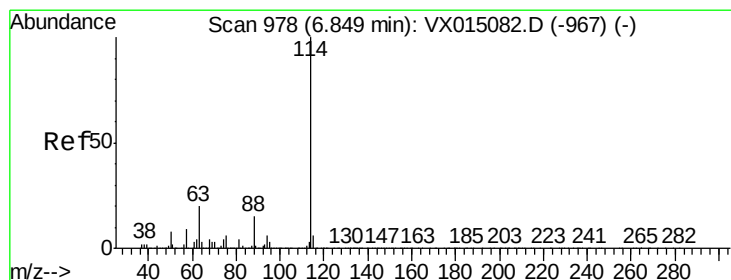
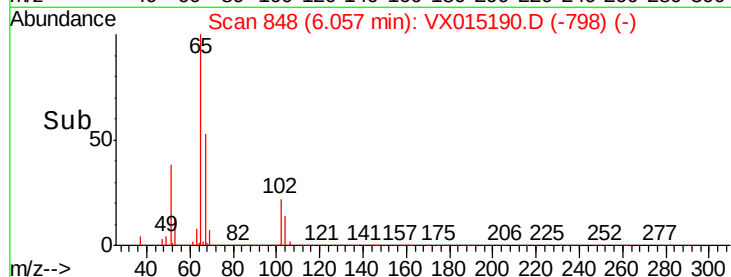
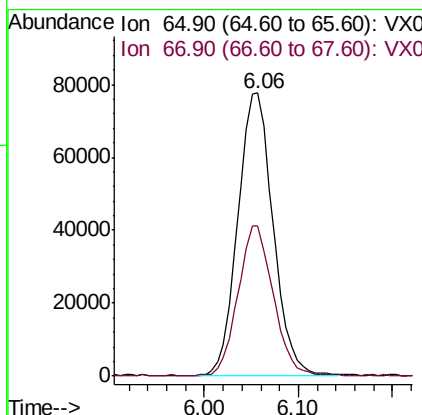
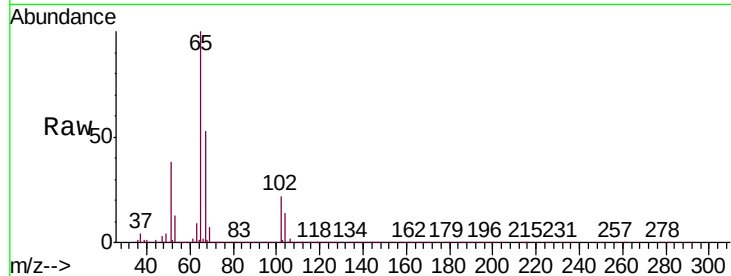




#33
 1,2-Dichloroethane-d4
 Concen: 53.524 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

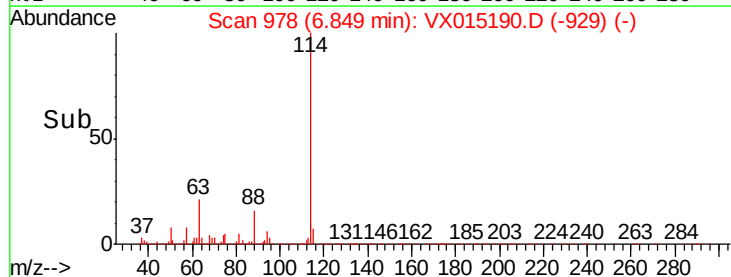
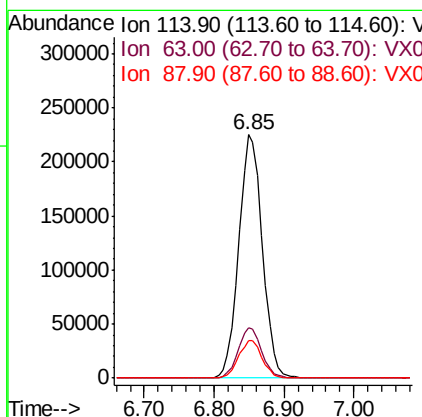
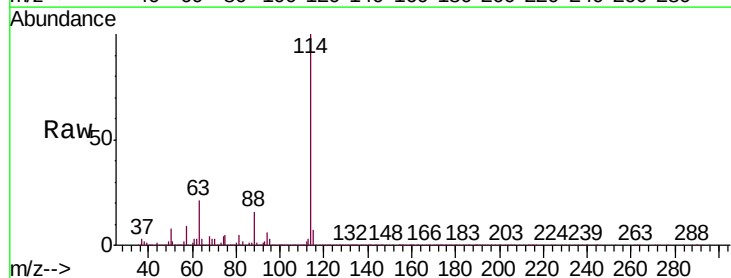
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

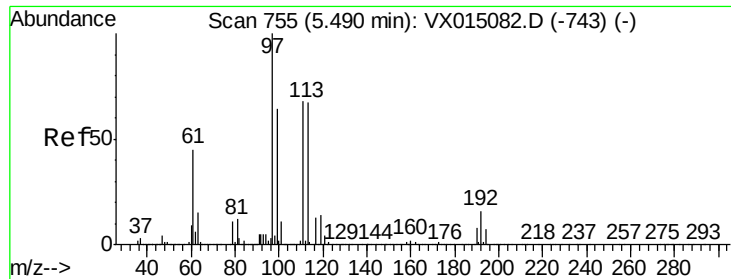
Tgt Ion: 65 Resp: 202942
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion: 114 Resp: 525281
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.0
 88 15.6 0.0 30.6

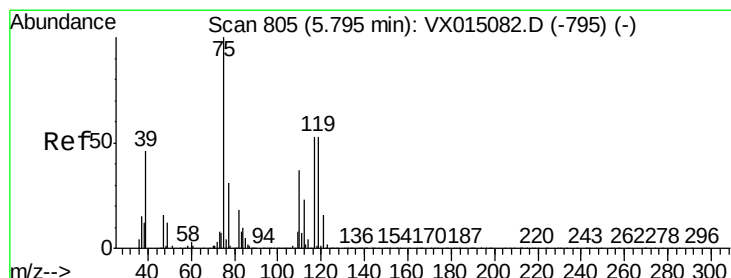
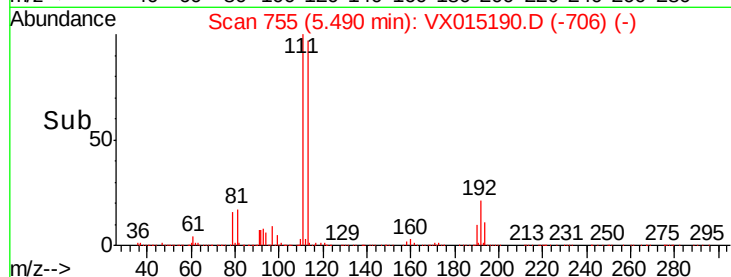
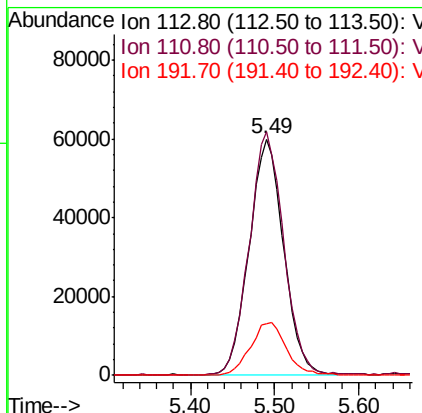
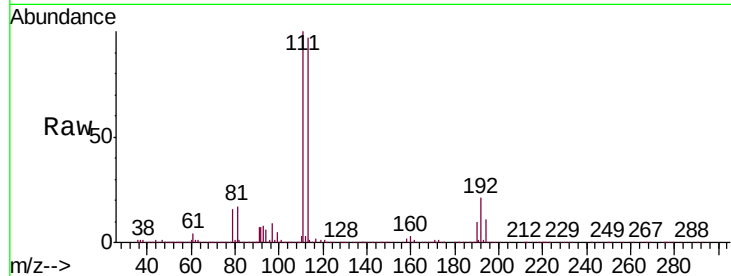




#35
 Dibromofluoromethane
 Concen: 50.792 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

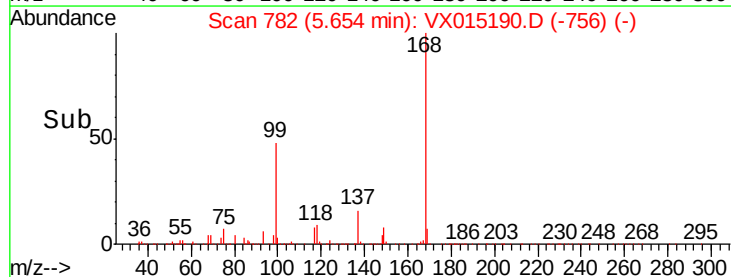
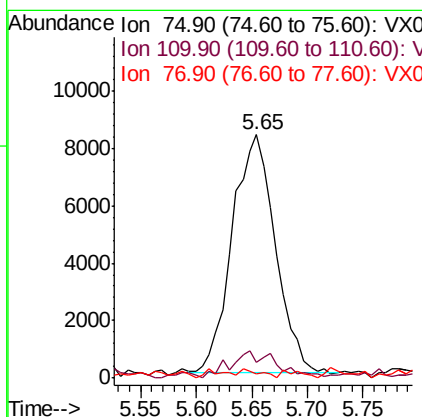
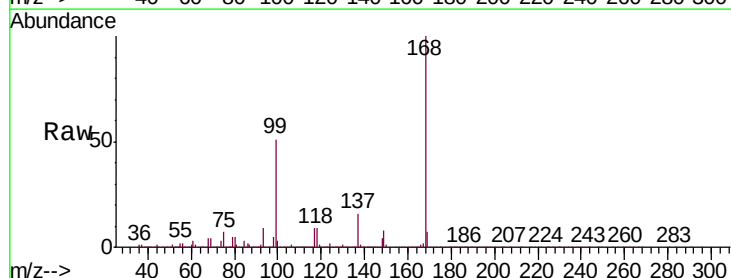
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

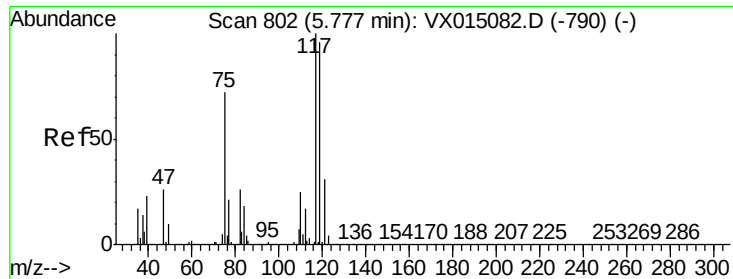
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.6	123.8
192	23.5	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.590 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.1	17.9	53.8#
77	1.7	24.8	37.2#

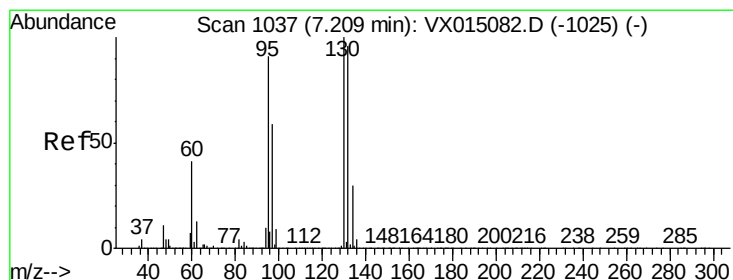
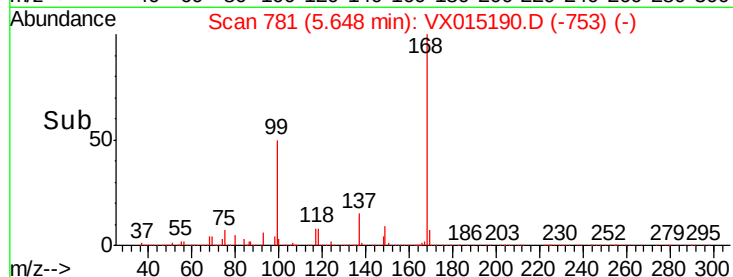
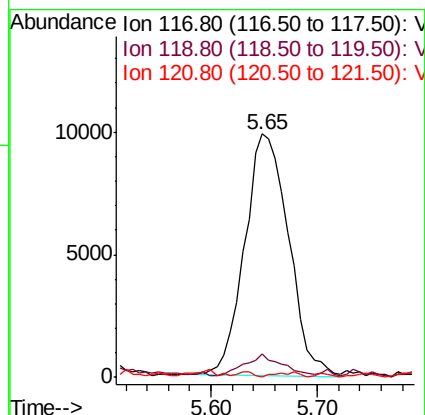
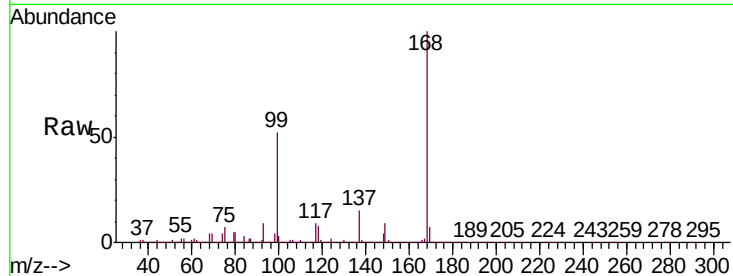




#38
Carbon Tetrachloride
Concen: 6.217 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

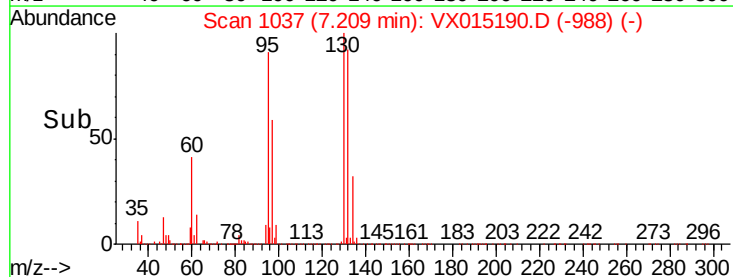
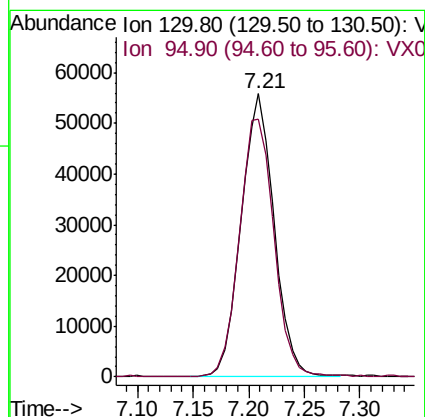
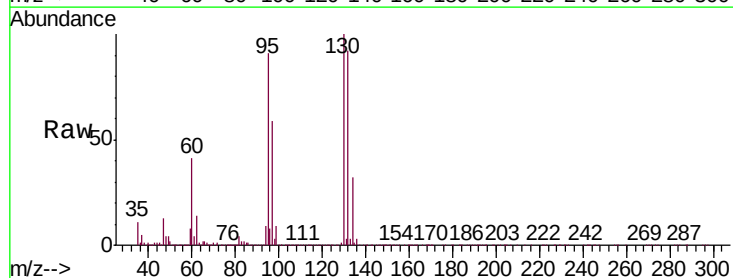
Instrument :
MSVOA_X
ClientSampled :
MW-3

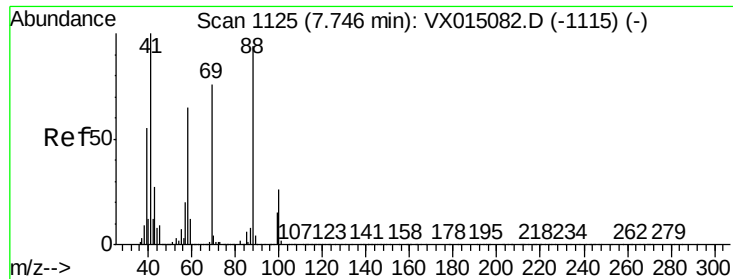
Tgt Ion:117 Resp: 28498
Ion Ratio Lower Upper
117 100
119 8.9 76.9 115.3#
121 0.0 24.6 37.0#



#44
Trichloroethene
Concen: 28.467 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Tgt Ion:130 Resp: 114219
Ion Ratio Lower Upper
130 100
95 91.1 0.0 181.2

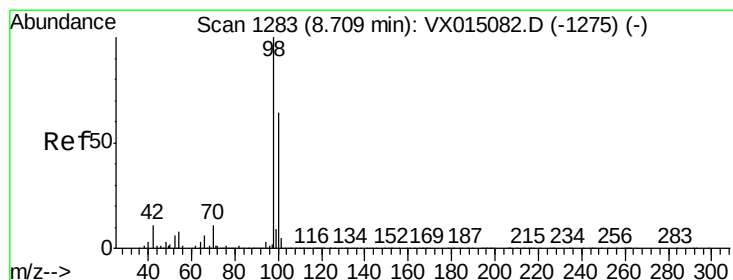
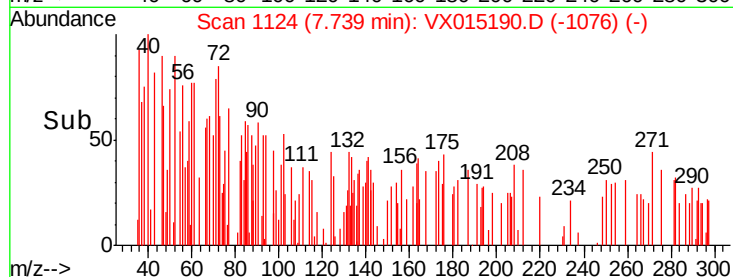
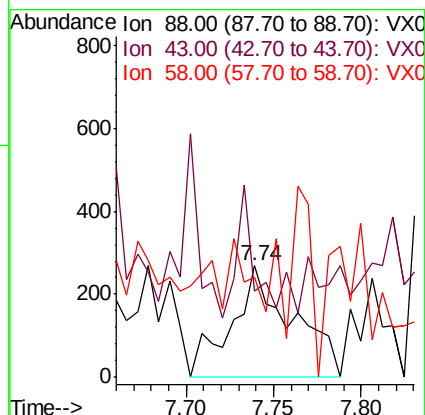
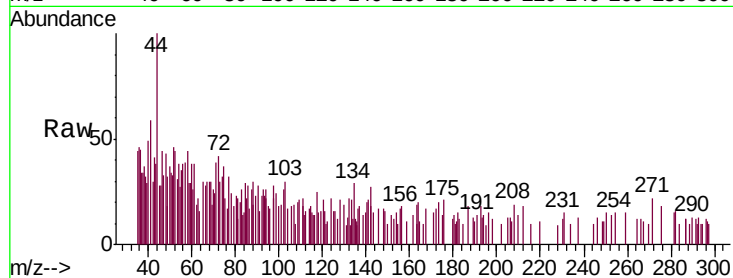




#49
1,4-Dioxane
Concen: 7.408 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

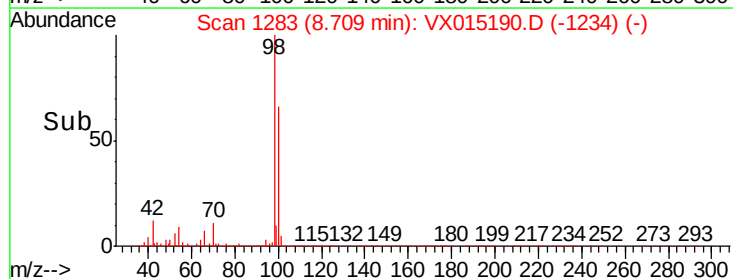
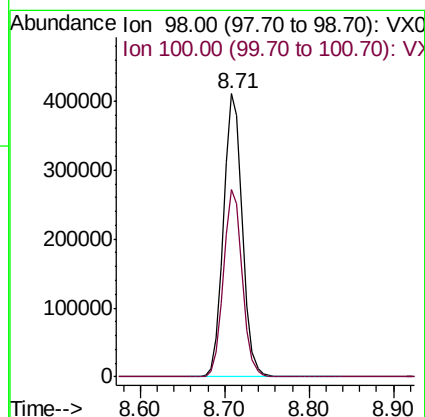
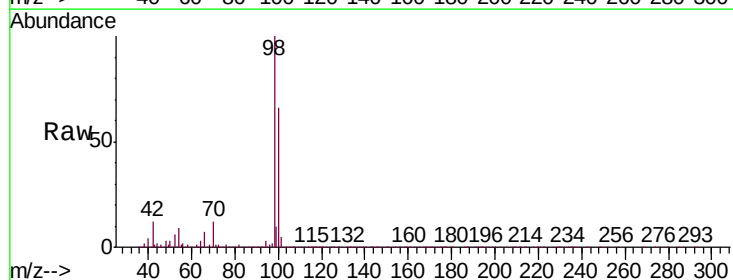
Instrument :
MSVOA_X
ClientSampled :
MW-3

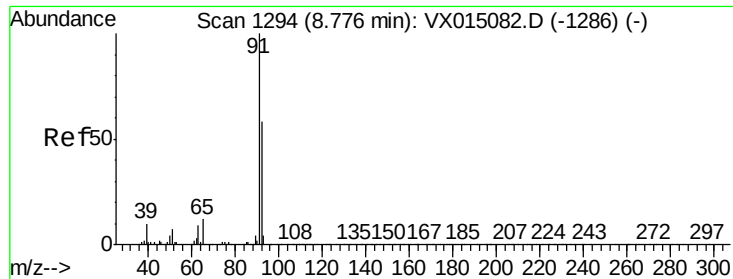
Tgt Ion: 88 Resp: 646
Ion Ratio Lower Upper
88 100
43 33.4 27.0 40.4
58 0.0 55.6 83.4#



#50
Toluene-d8
Concen: 50.409 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Tgt Ion: 98 Resp: 635424
Ion Ratio Lower Upper
98 100
100 66.3 52.4 78.6





#52

Toluene

Concen: 0.327 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampleId :

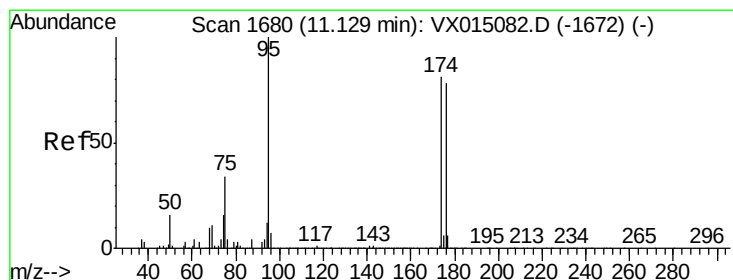
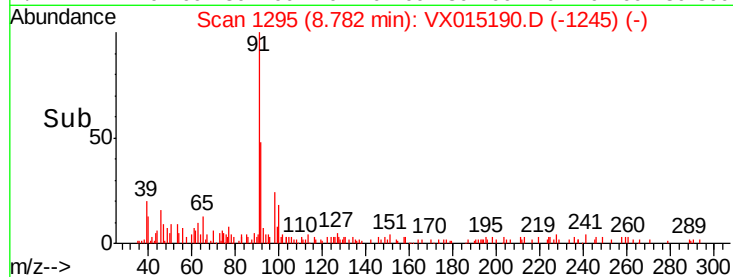
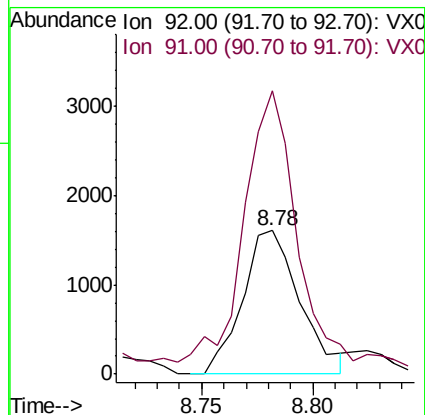
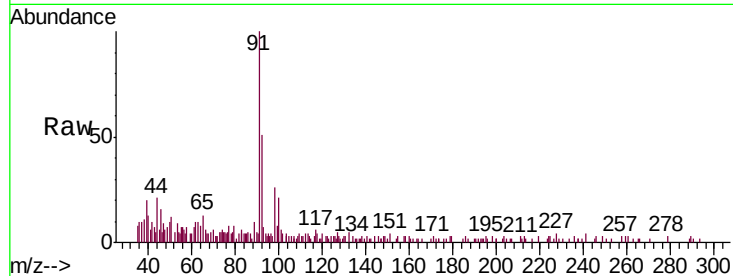
MW-3

Tgt Ion: 92 Resp: 2883

Ion Ratio Lower Upper

92 100

91 172.9 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 50.707 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

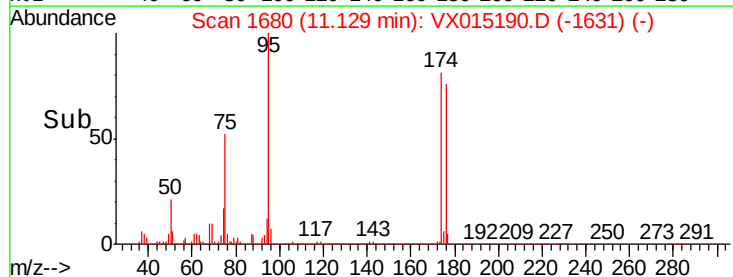
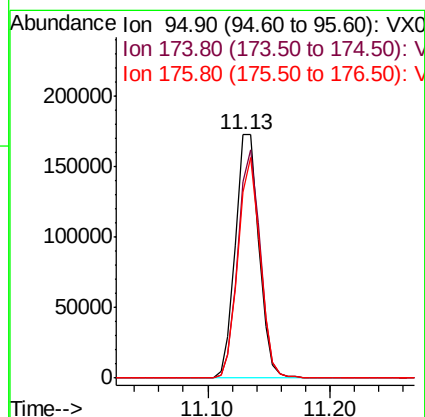
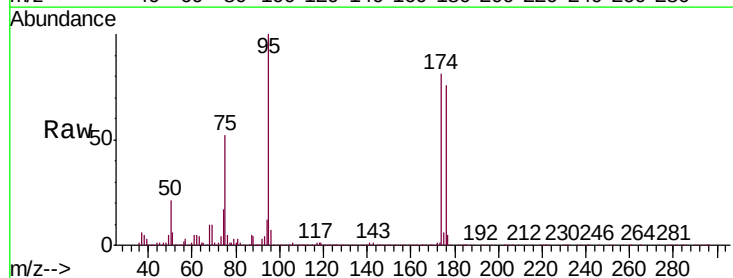
Tgt Ion: 95 Resp: 227990

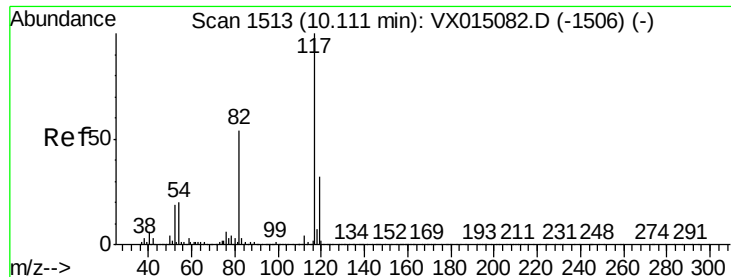
Ion Ratio Lower Upper

95 100

174 89.4 0.0 177.6

176 85.7 0.0 170.2

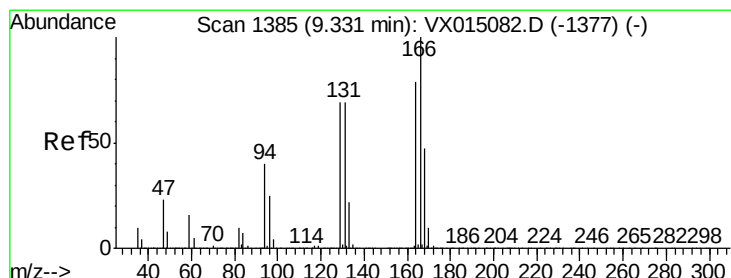
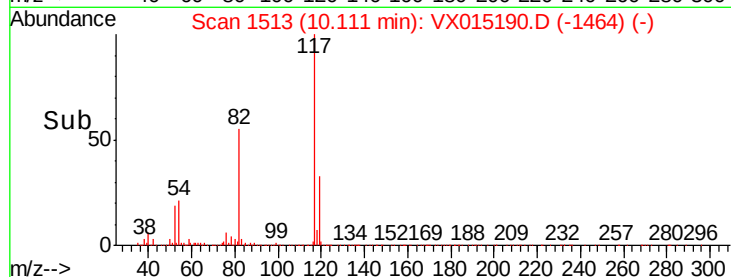
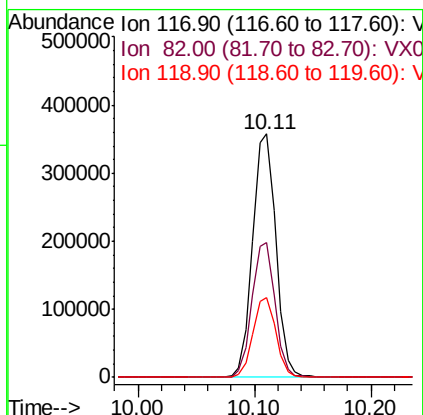
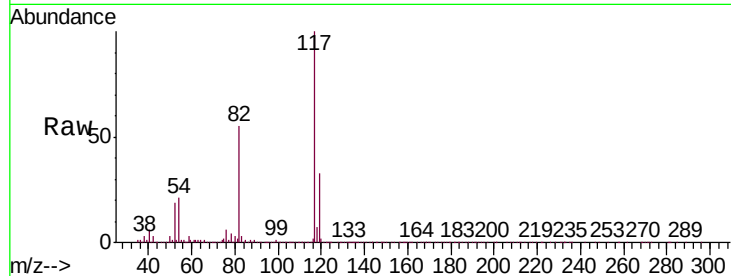




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

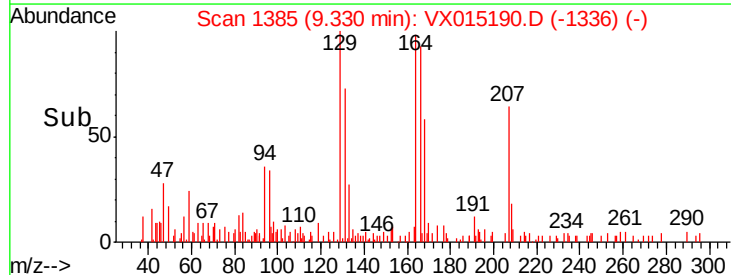
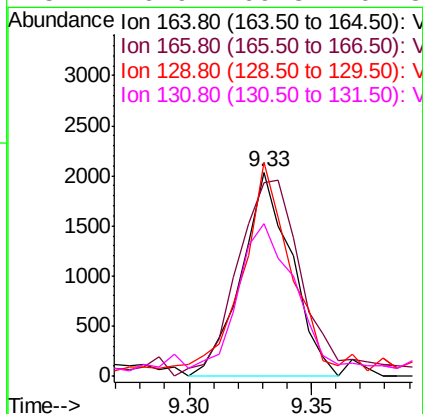
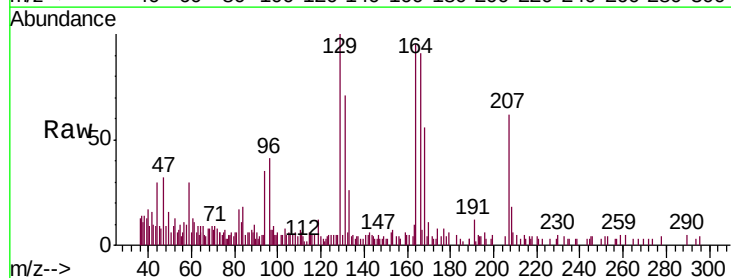
Instrument :
MSVOA_X
ClientSampleId :
MW-3

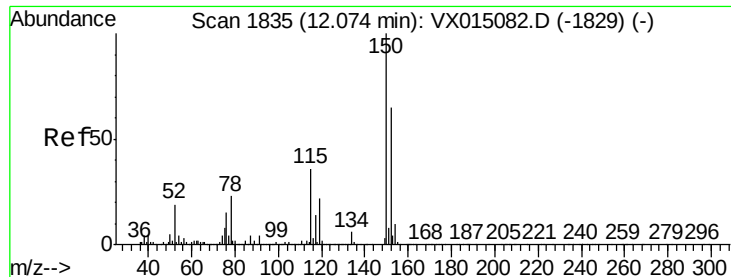
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.1	43.3	64.9
119	32.5	25.8	38.8



#64
Tetrachloroethene
Concen: 0.695 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	91.3	101.1	151.7#
129	99.8	69.4	104.0
131	70.9	69.8	104.8



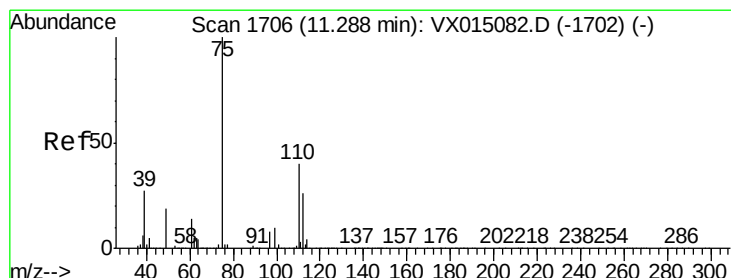
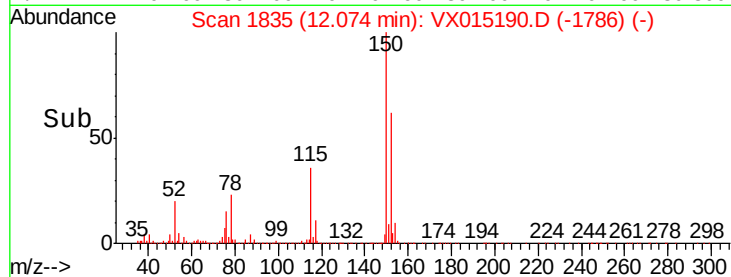
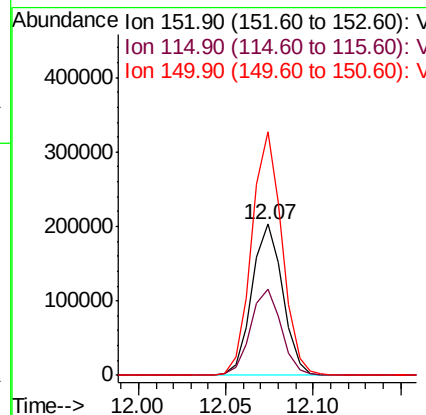
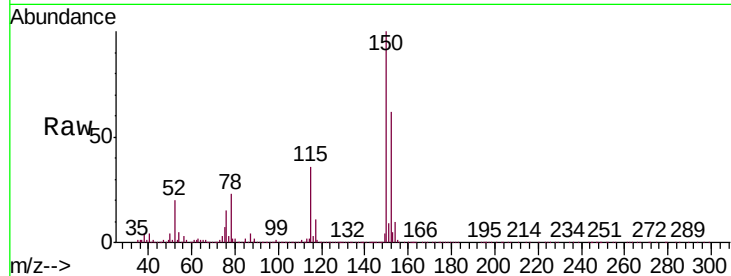


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Instrument :
MSVOA_X
ClientSampled :
MW-3

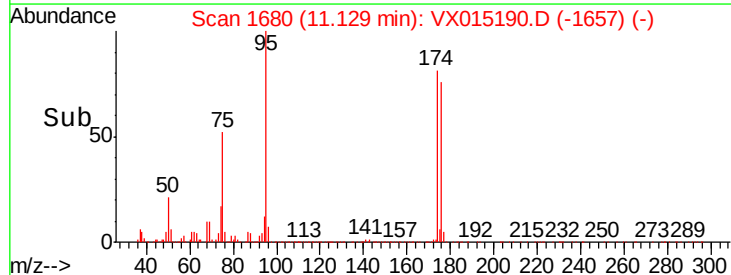
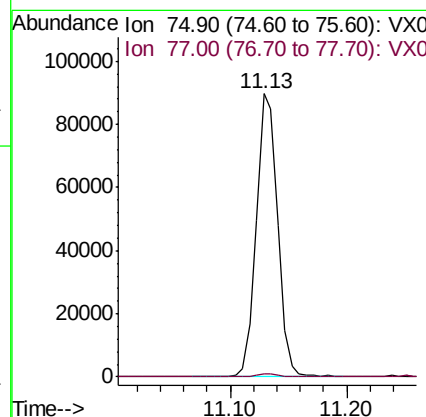
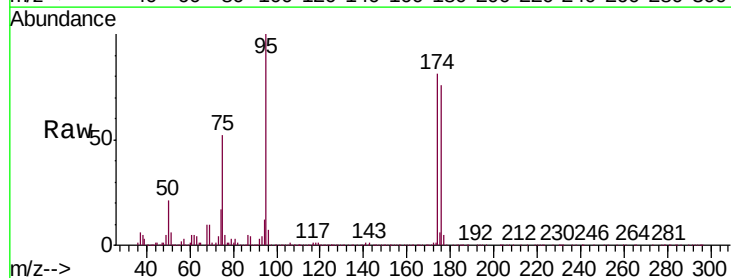
Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	38.2	114.6
150	158.3	0.0	343.8

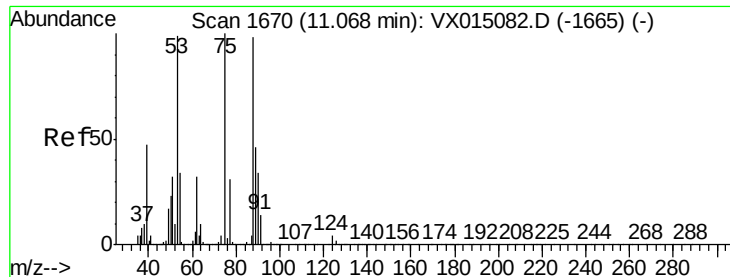


#76

1,2,3-Trichloropropane
Concen: 23.092 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.0	22.6	67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.536 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

Instrument :

MSVOA_X

ClientSampleId :

MW-3

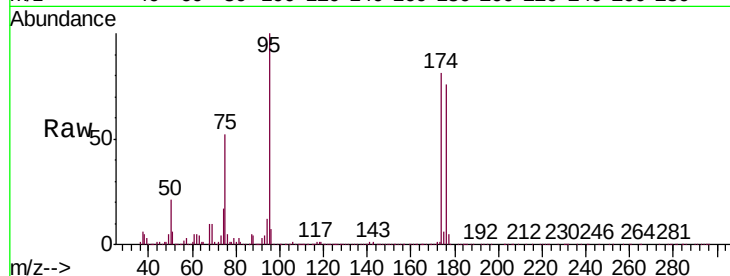
Tgt Ion: 75 Resp: 114469

Ion Ratio Lower Upper

75 100

53 0.6 77.9 116.9#

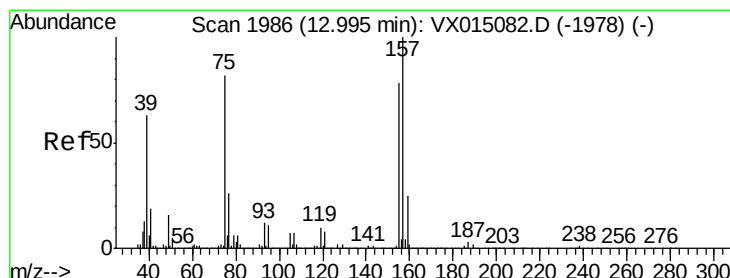
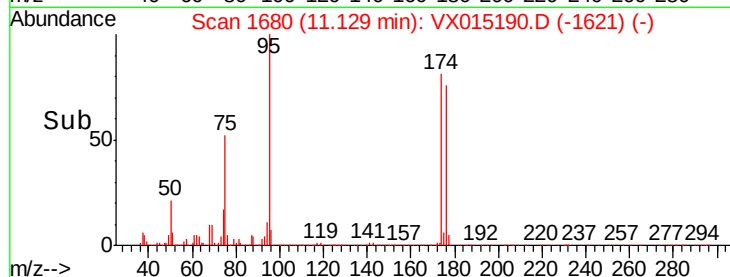
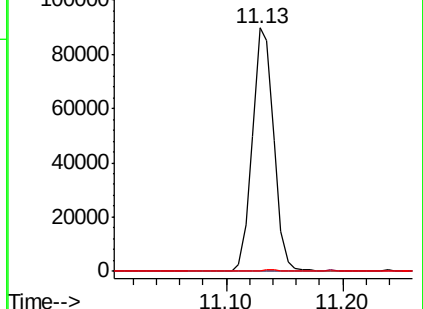
89 0.7 36.2 54.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.801 ug/l

RT: 13.02 min Scan# 1990

Delta R.T. 0.02 min

Lab File: VX015190.D

Acq: 11 Mar 2020 11:15

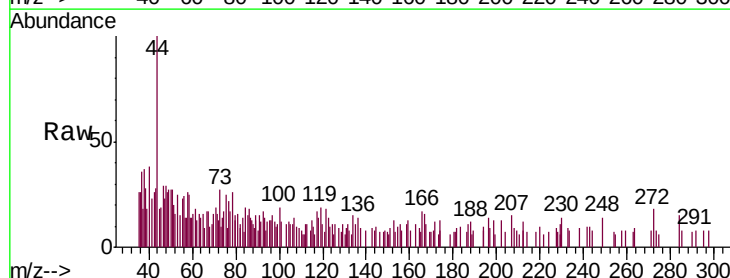
Tgt Ion: 75 Resp: 849

Ion Ratio Lower Upper

75 100

155 11.3 46.6 139.7#

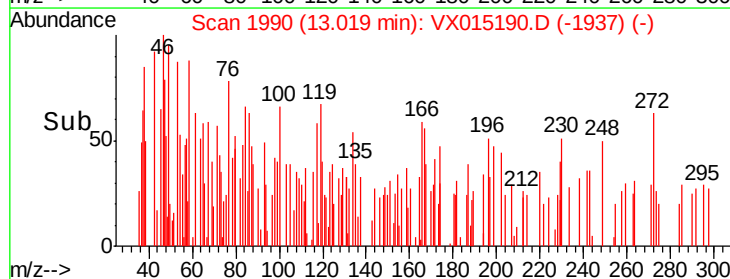
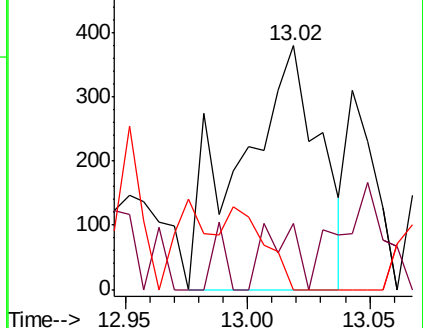
157 0.0 59.2 177.5#

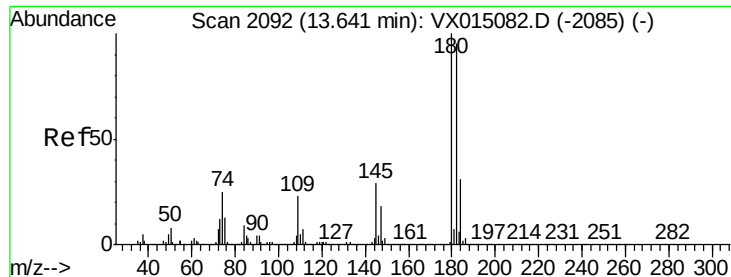


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

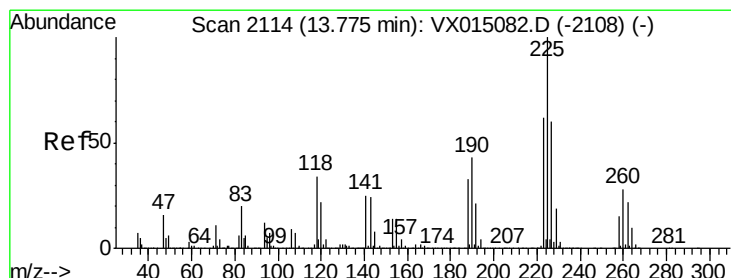
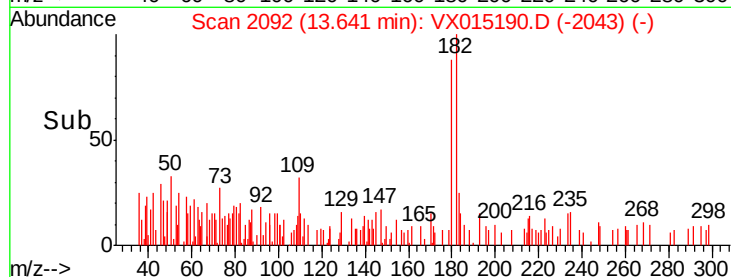
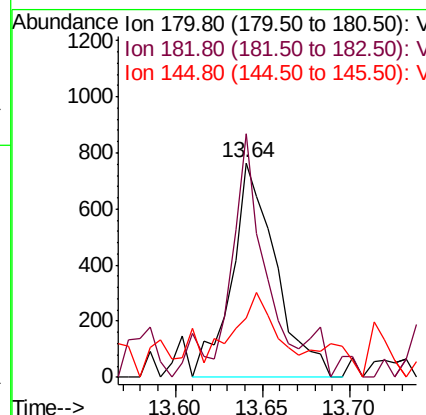
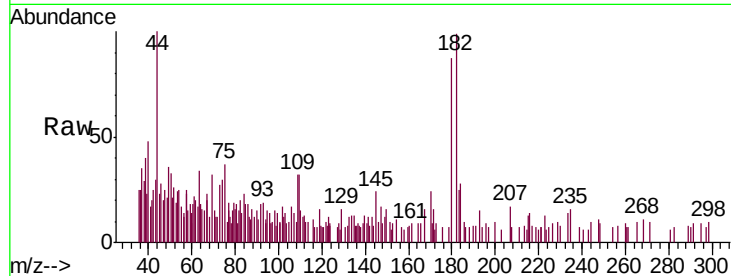




#93
 1,2,4-Trichlorobenzene
 Concen: 0.251 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

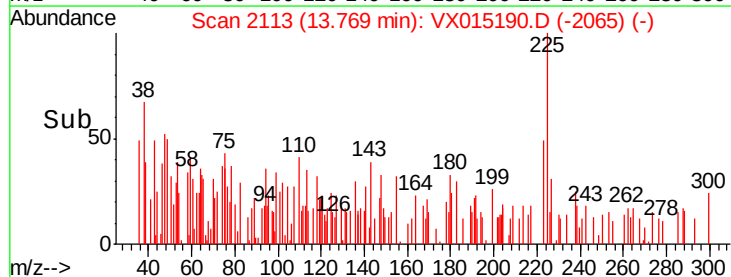
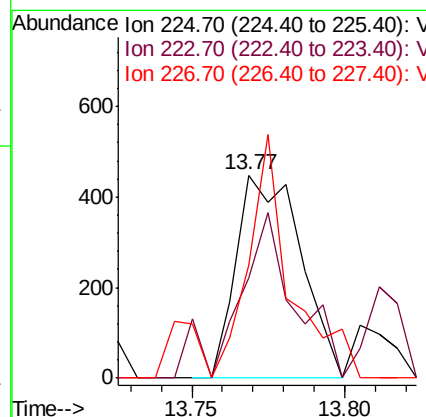
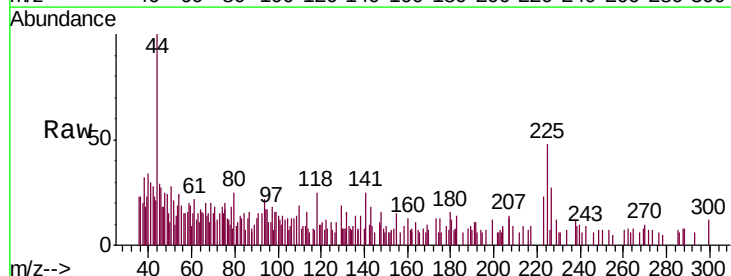
Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

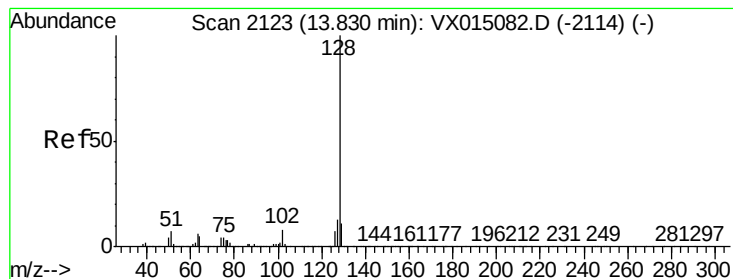
Tgt Ion:180 Resp: 1345
 Ion Ratio Lower Upper
 180 100
 182 64.2 47.6 142.8
 145 40.4 14.1 42.2



#94
 Hexachlorobutadiene
 Concen: 0.237 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.01 min
 Lab File: VX015190.D
 Acq: 11 Mar 2020 11:15

Tgt Ion:225 Resp: 654
 Ion Ratio Lower Upper
 225 100
 223 72.6 31.3 93.9
 227 78.3 31.1 93.2





#95
Naphthalene
Concen: 1.534 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015190.D
Acq: 11 Mar 2020 11:15

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tgt Ion	Ratio	Lower	Upper
128	100		
127	21.1	10.3	15.5#
129	24.4	8.6	13.0#

