

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031020\
 Data File : VX015166.D
 Acq On : 10 Mar 2020 13:26
 Operator : JC/SP
 Sample : L1842-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 07:28:45 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	326197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	536124	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	524177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	264018	50.00	ug/l	0.00

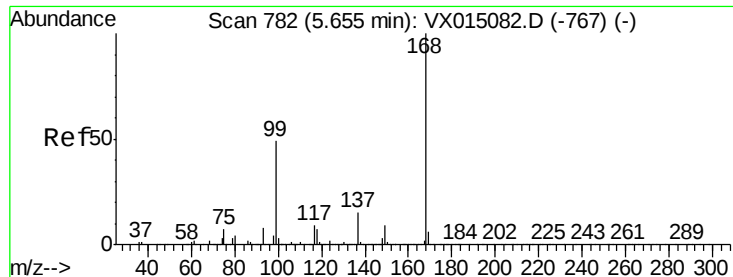
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	205220	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
35) Dibromofluoromethane	5.49	113	168656	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
50) Toluene-d8	8.71	98	655381	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.14	95	238453	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	2013	0.705	ug/l	96
3) Chloromethane	1.32	50	1395	0.345	ug/l #	74
5) Bromomethane	1.66	94	587	0.233	ug/l	98
7) Trichlorofluoromethane	1.93	101	1366	0.280	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.38	101	17772	5.786	ug/l	97
12) 1,1-Dichloroethene	2.37	96	3067	0.968	ug/l #	75
15) Acrylonitrile	3.11	53	341	0.204	ug/l #	34
16) Acetone	2.44	43	2490	1.589	ug/l #	75
20) Methylene Chloride	2.84	84	1040	0.284	ug/l #	41
24) 1,1-Dichloroethane	3.70	63	1517	0.248	ug/l #	66
25) 2-Butanone	4.65	43	594	0.259	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	5188	1.366	ug/l	86
29) Tetrahydrofuran	5.12	42	1354	0.915	ug/l #	59
30) Chloroform	5.22	83	1400	0.235	ug/l #	61
32) 1,1,1-Trichloroethane	5.49	97	4729	0.958	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	23321	4.705	ug/l #	42
38) Carbon Tetrachloride	5.65	117	29486	6.303	ug/l #	14
41) Methacrylonitrile	5.03	41	1274	0.461	ug/l #	28
44) Trichloroethene	7.21	130	255075	62.288	ug/l	99
49) 1,4-Dioxane	7.75	88	1856	20.854	ug/l #	88
64) Tetrachloroethene	9.33	164	1197	0.276	ug/l #	59
76) 1,2,3-Trichloropropane	11.14	75	119608	22.712	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	119608	64.456	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.87	75	250	0.222	ug/l	69
95) Naphthalene	13.83	128	962	1.473	ug/l #	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

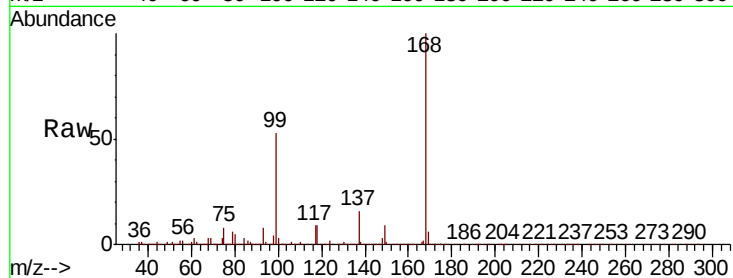
ClientSampleId :

Tot Ion:168 Resp: 326197

Ion Ratio Lower Upper

168 100

99 52.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

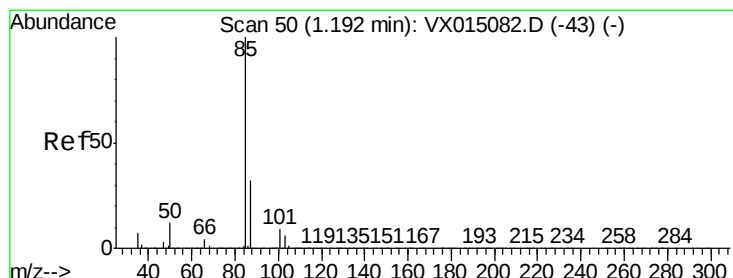
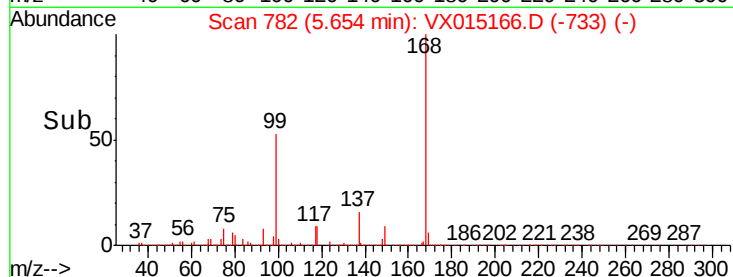
5.65

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.705 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015166.D

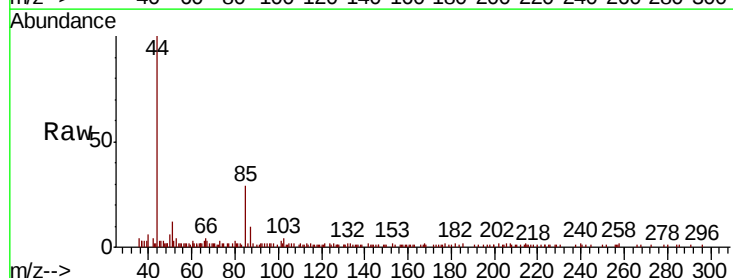
Acq: 10 Mar 2020 13:26

Tgt Ion: 85 Resp: 2013

Ion Ratio Lower Upper

85 100

87 34.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

2500

2000

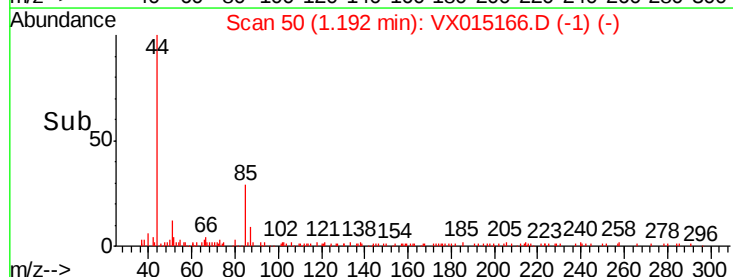
1500

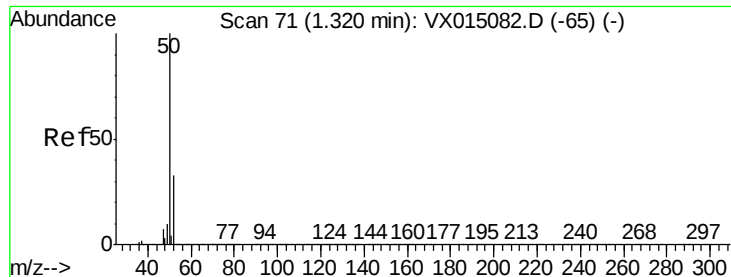
1000

500

0

Time-->

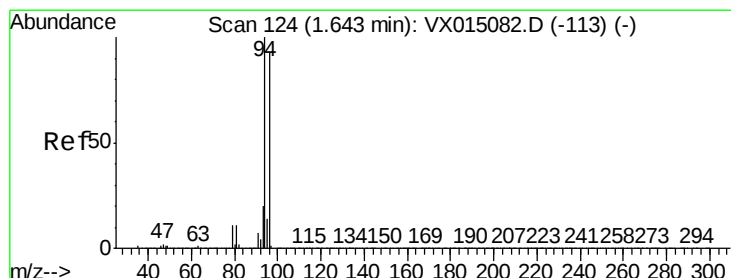
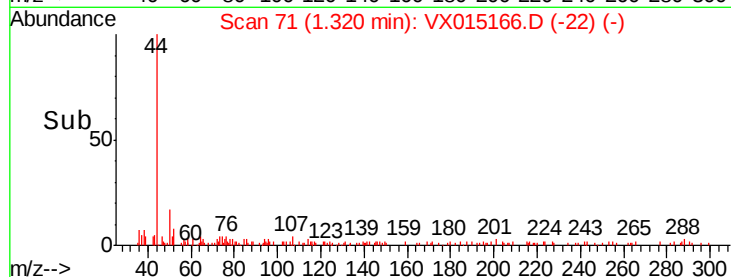
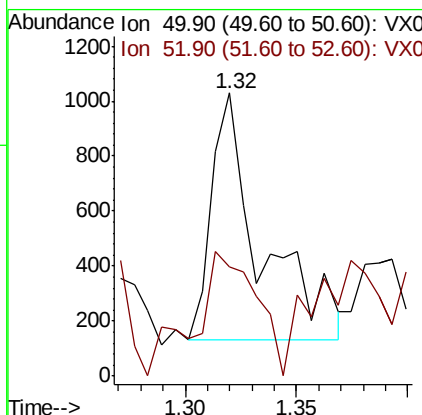
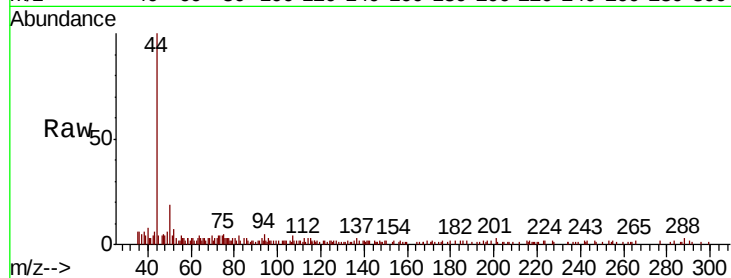




#3
Chloromethane
Concen: 0.345 ug/l
RT: 1.32 min Scan# 71
Delta R.T. -0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

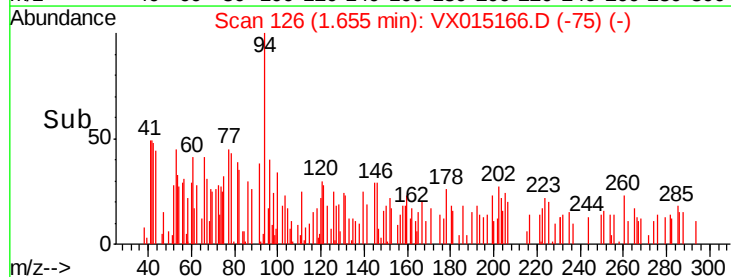
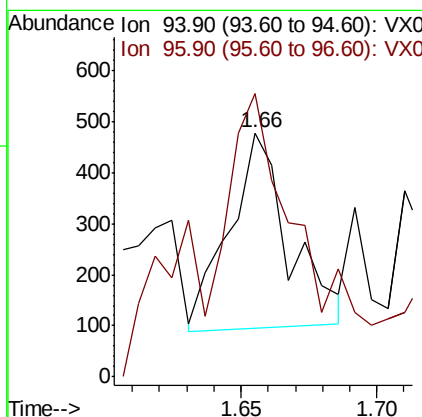
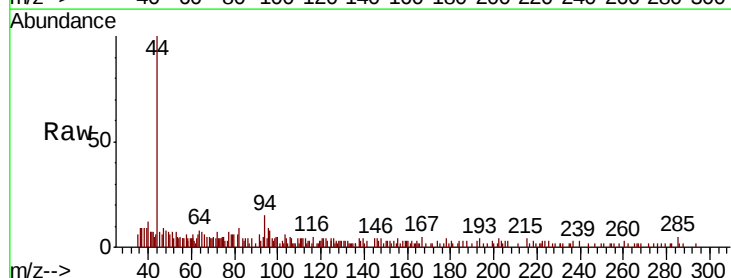
Instrument :
MSVOA_X
ClientSampled :

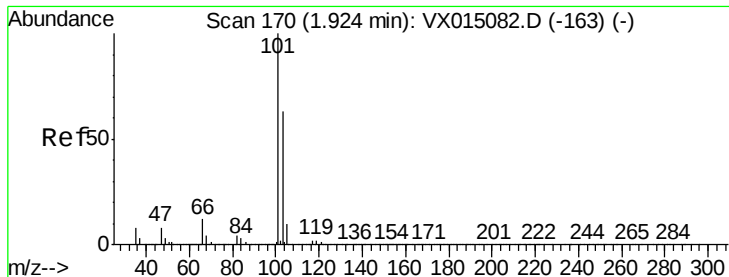
Tot Ion: 50 Resp: 1395
Ion Ratio Lower Upper
50 100
52 17.9 26.2 39.2#



#5
Bromomethane
Concen: 0.233 ug/l
RT: 1.66 min Scan# 126
Delta R.T. 0.01 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Tgt Ion: 94 Resp: 587
Ion Ratio Lower Upper
94 100
96 91.5 74.6 111.8



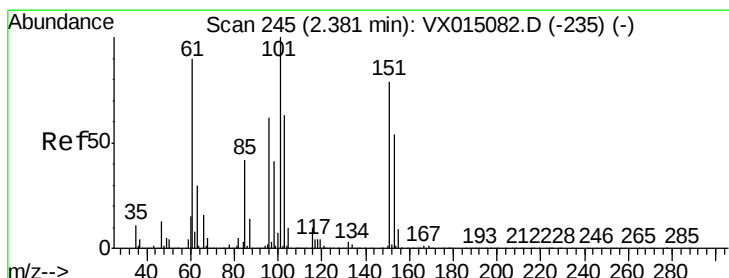
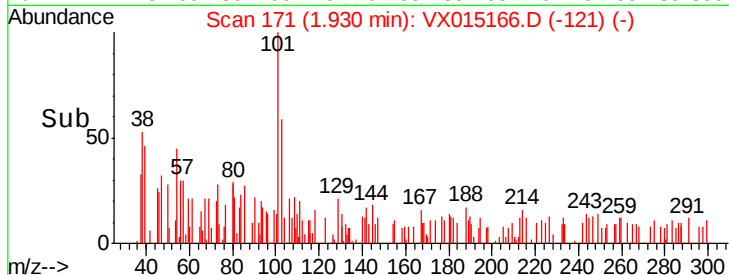
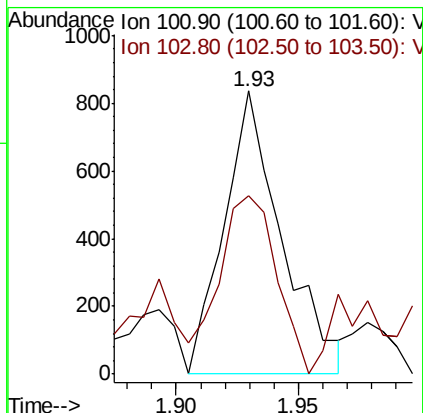
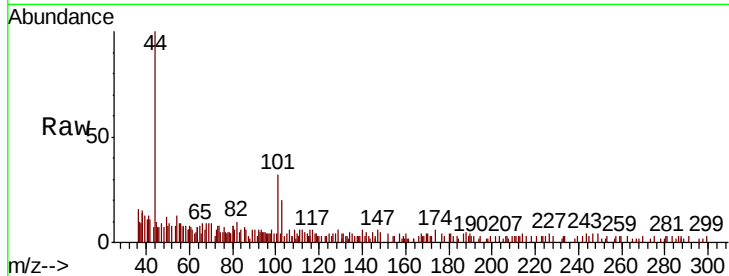


#7

Trichlorofluoromethane
 Concen: 0.280 ug/l
 RT: 1.93 min Scan# 171
 Delta R.T. 0.01 min
 Lab File: VX015166.D
 Acq: 10 Mar 2020 13:26

Instrument :
 MSVOA_X
 ClientSampleId :

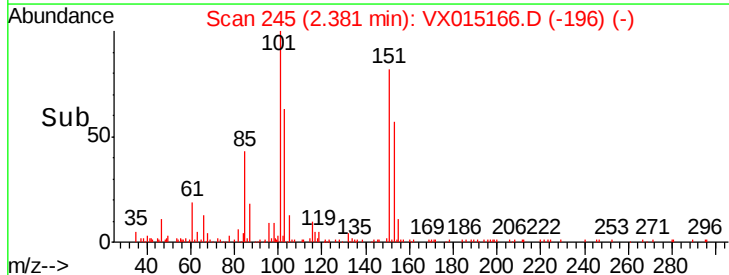
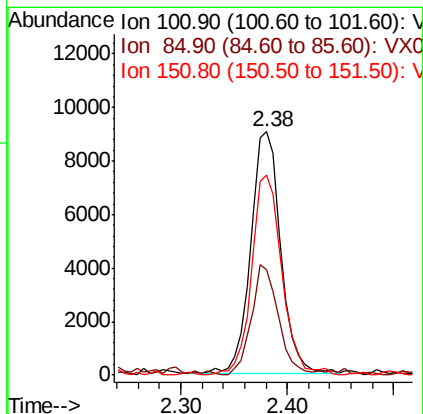
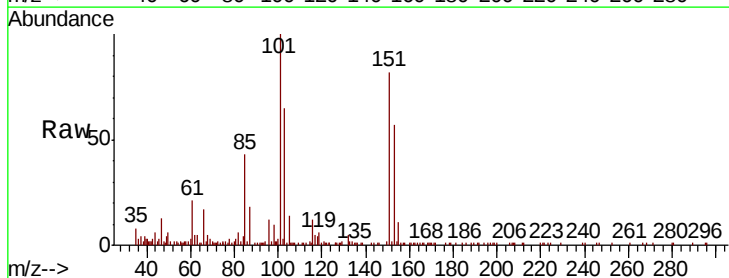
Tot Ion:101 Resp: 1366
 Ion Ratio Lower Upper
 101 100
 103 52.2 50.4 75.6

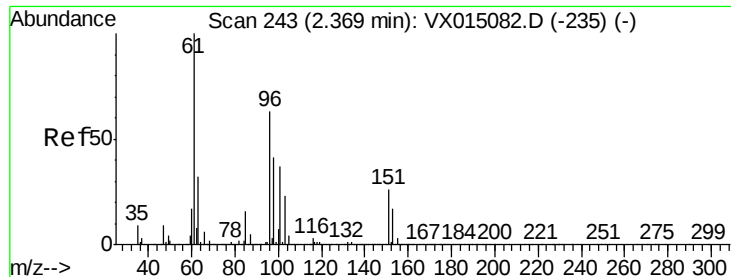


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 5.786 ug/l
 RT: 2.38 min Scan# 245
 Delta R.T. -0.00 min
 Lab File: VX015166.D
 Acq: 10 Mar 2020 13:26

Tgt Ion:101 Resp: 17772
 Ion Ratio Lower Upper
 101 100
 85 42.2 33.7 50.5
 151 84.3 64.0 96.0





#12

1,1-Dichloroethene

Concen: 0.968 ug/l

RT: 2.37 min Scan# 244

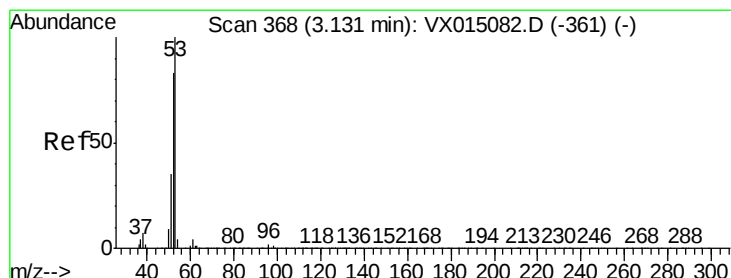
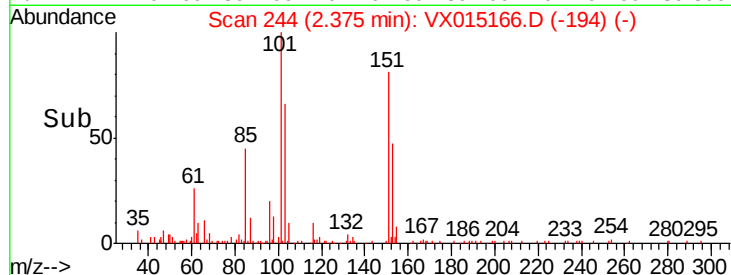
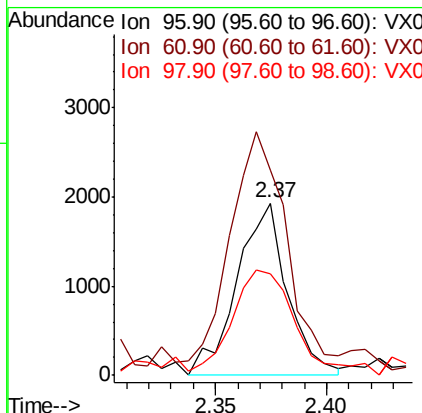
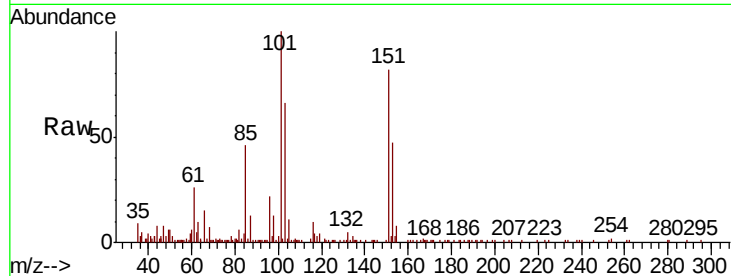
Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	3067
Ion	Ratio	Lower	Upper
96	100		
61	116.0	126.2	189.4#
98	59.0	51.4	77.0



#15

Acrylonitrile

Concen: 0.204 ug/l

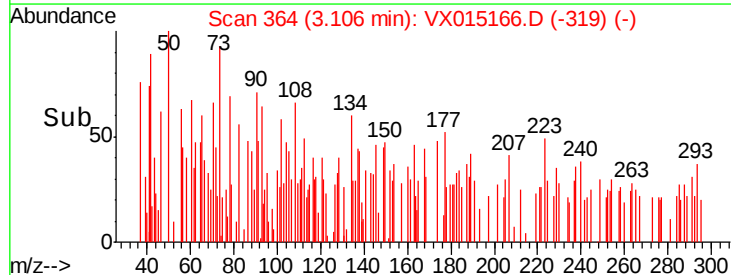
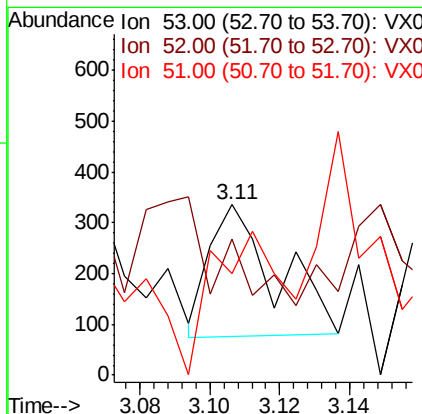
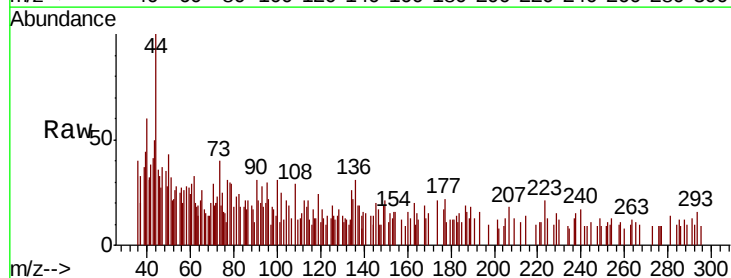
RT: 3.11 min Scan# 364

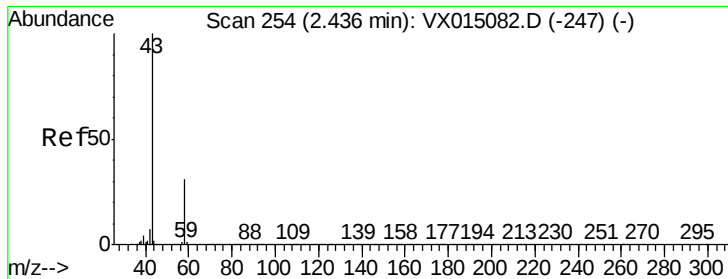
Delta R.T. -0.02 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Tgt Ion:	53	Resp:	341
Ion	Ratio	Lower	Upper
53	100		
52	115.5	66.6	100.0#
51	115.5	29.0	43.6#

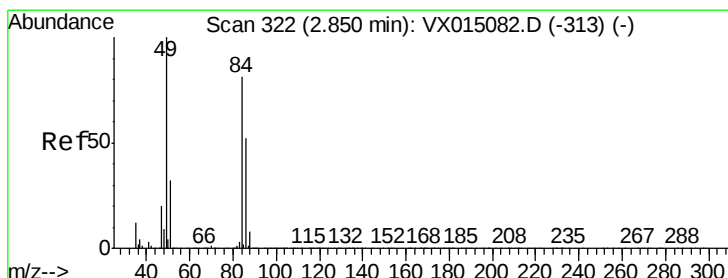
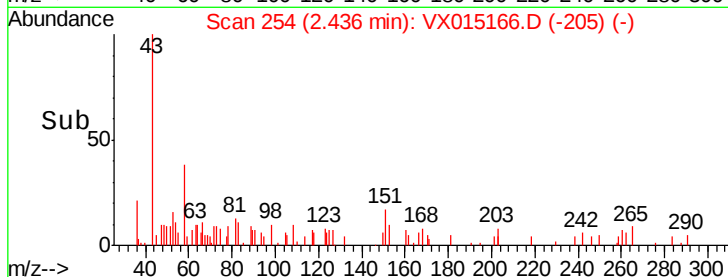
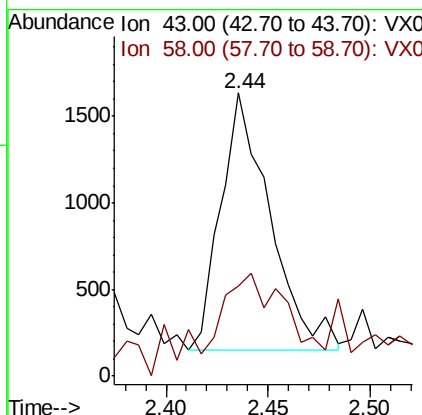
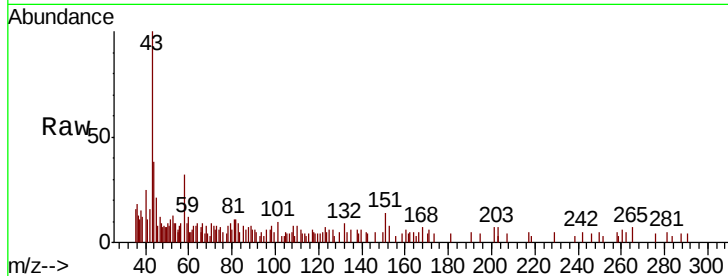




#16
Acetone
Concen: 1.589 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

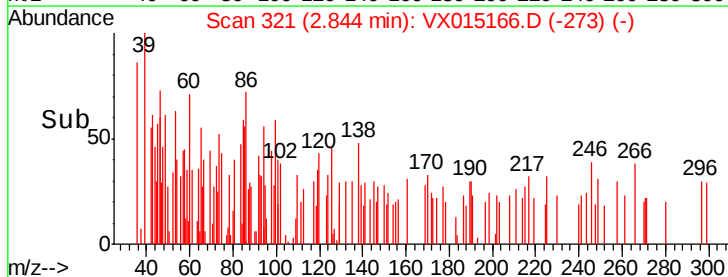
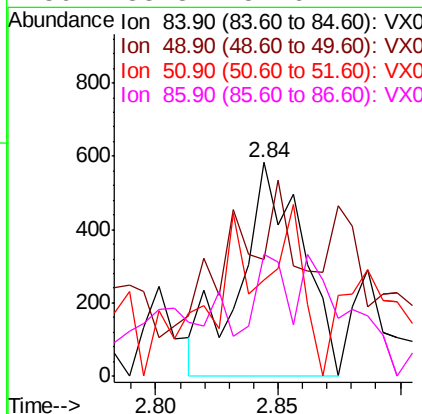
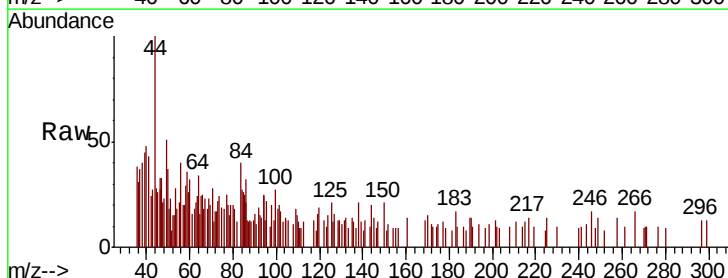
Instrument :
MSVOA_X
ClientSampleId :

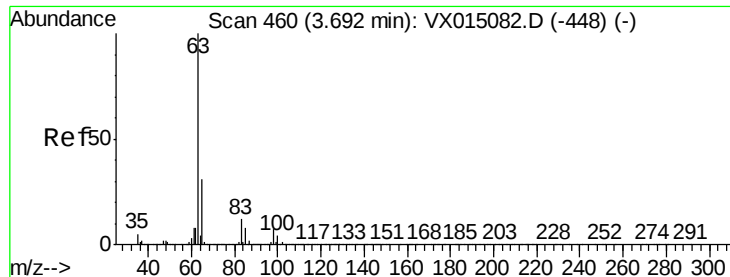
Tot Ion: 43 Resp: 2490
Ion Ratio Lower Upper
43 100
58 17.2 24.8 37.2#



#20
Methylene Chloride
Concen: 0.284 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Tgt Ion: 84 Resp: 1040
Ion Ratio Lower Upper
84 100
49 32.5 99.4 149.2#
51 19.1 31.5 47.3#
86 38.8 51.6 77.4#





#24

1,1-Dichloroethane

Concen: 0.248 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

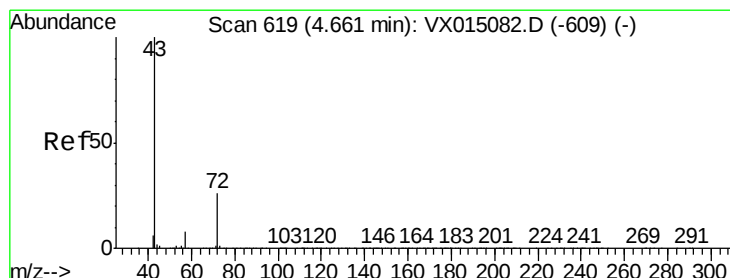
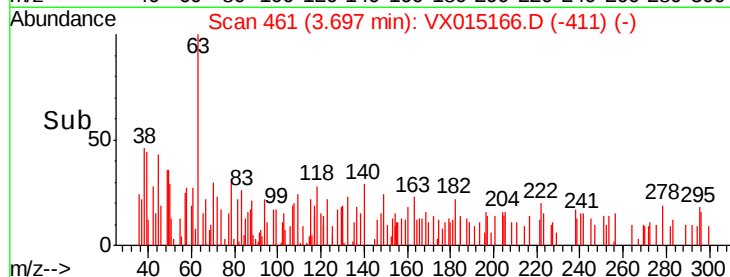
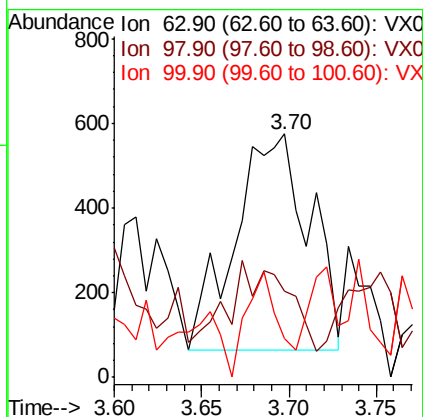
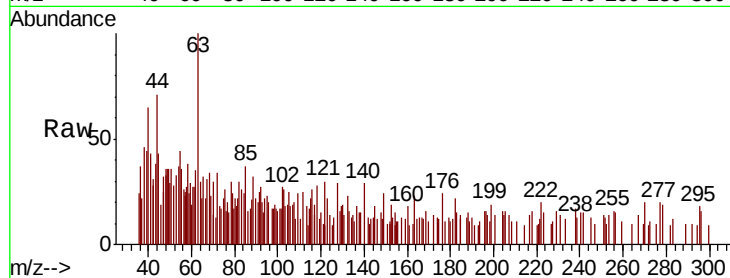
Tot Ion: 63 Resp: 1517

Ion Ratio Lower Upper

63 100

98 23.7 3.7 11.1#

100 0.0 2.1 6.5#



#25

2-Butanone

Concen: 0.259 ug/l

RT: 4.65 min Scan# 617

Delta R.T. -0.01 min

Lab File: VX015166.D

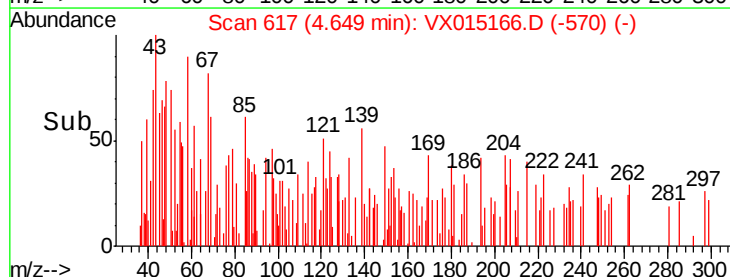
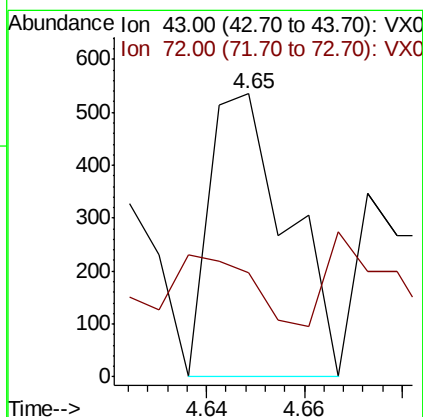
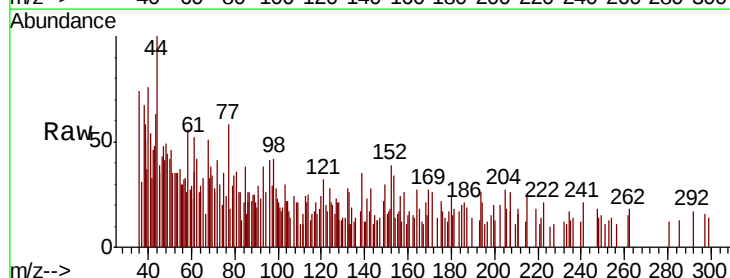
Acq: 10 Mar 2020 13:26

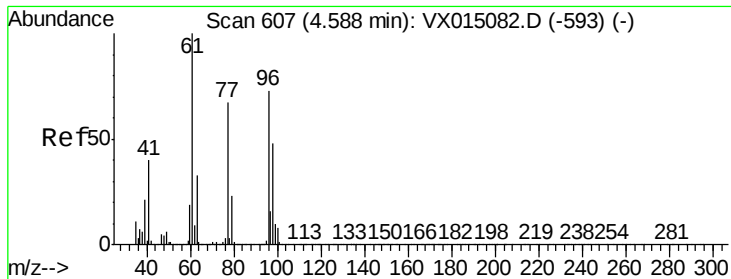
Tgt Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

72 0.0 20.6 30.8#

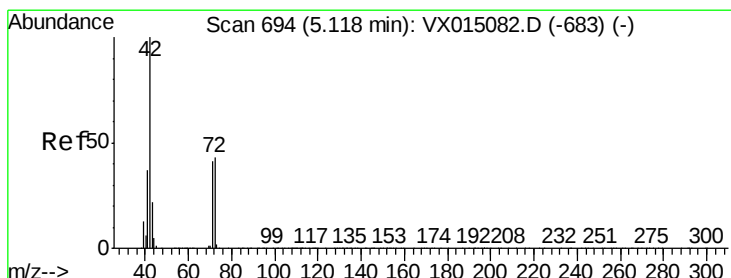
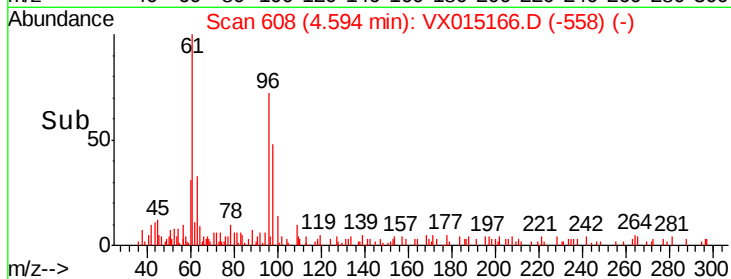
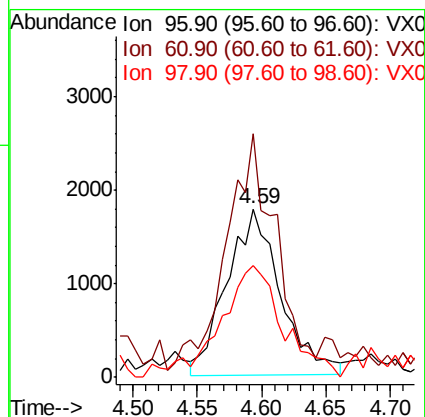
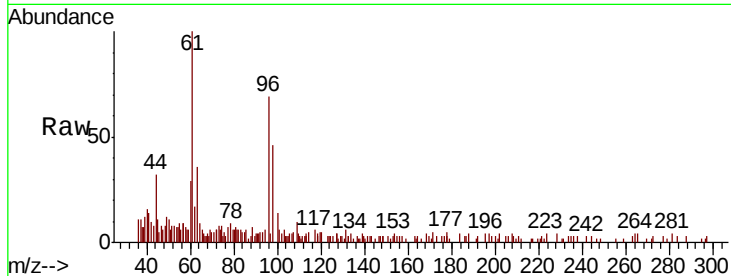




#27
 cis-1,2-Dichloroethene
 Concen: 1.366 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX015166.D
 Acq: 10 Mar 2020 13:26

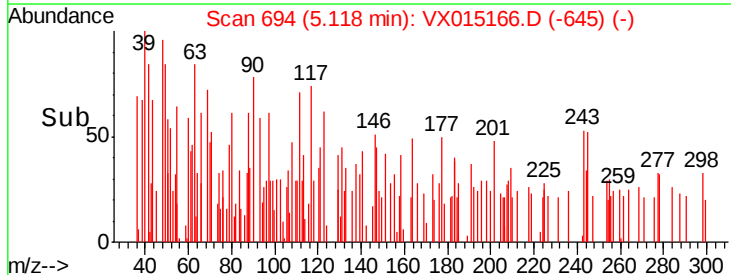
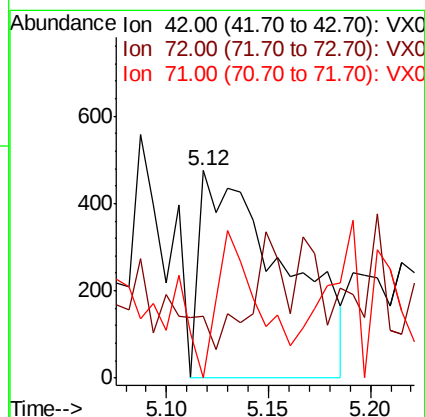
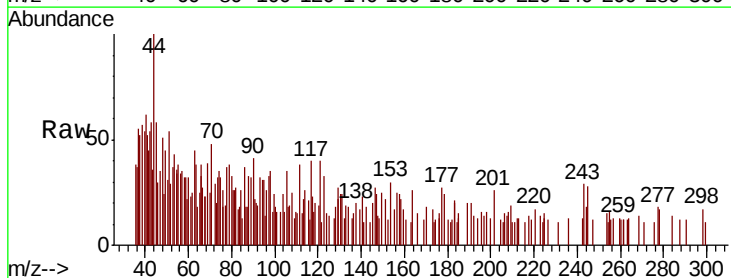
Instrument :
 MSVOA_X
 ClientSampleId :

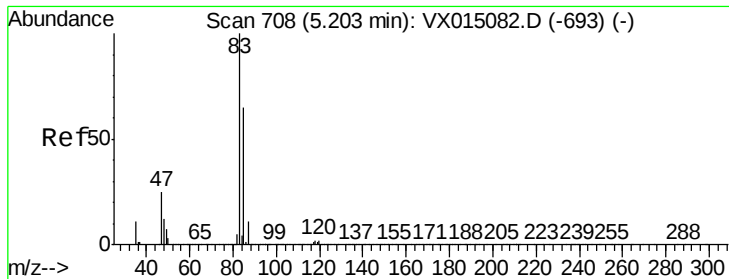
Tot Ion: 96 Resp: 5188
 Ion Ratio Lower Upper
 96 100
 61 128.0 0.0 286.8
 98 78.6 0.0 128.4



#29
 Tetrahydrofuran
 Concen: 0.915 ug/l
 RT: 5.12 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VX015166.D
 Acq: 10 Mar 2020 13:26

Tgt Ion: 42 Resp: 1354
 Ion Ratio Lower Upper
 42 100
 72 0.0 36.4 54.6#
 71 35.3 33.3 49.9





#30

Chloroform

Concen: 0.235 ug/l

RT: 5.22 min Scan# 710

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

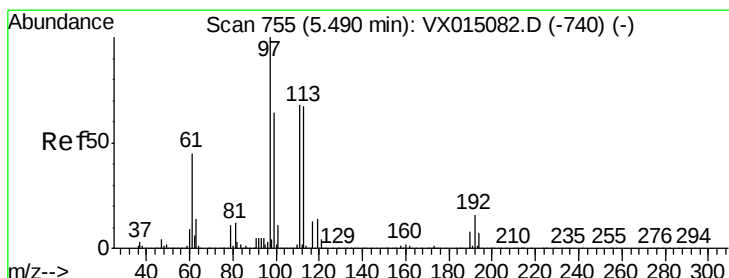
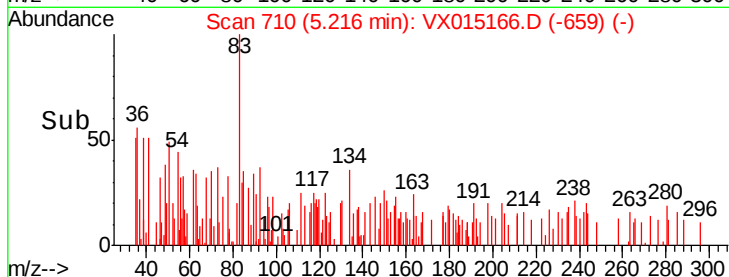
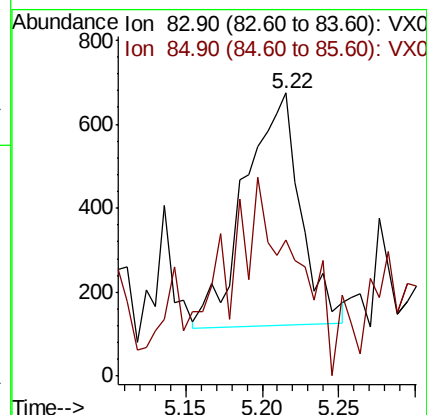
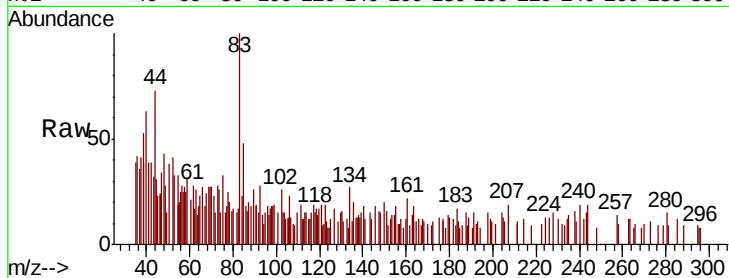
ClientSampled :

Tot Ion: 83 Resp: 1400

Ion Ratio Lower Upper

83 100

85 34.1 52.0 78.0#



#32

1,1,1-Trichloroethane

Concen: 0.958 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

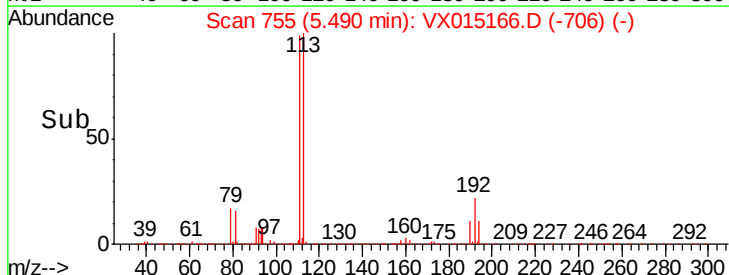
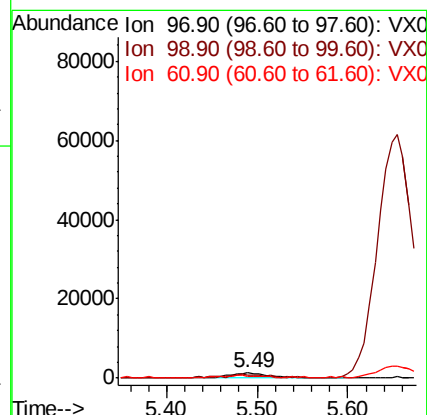
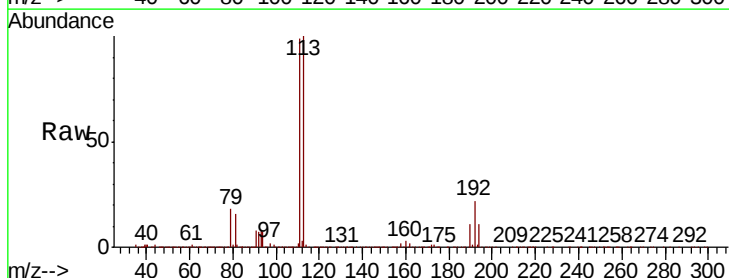
Tgt Ion: 97 Resp: 4729

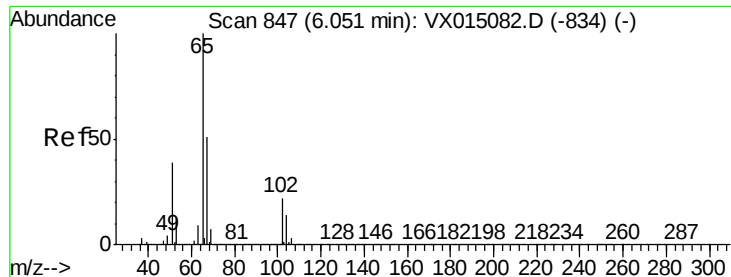
Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

61 53.7 36.6 54.8





#33

1,2-Dichloroethane-d4

Concen: 53.030 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

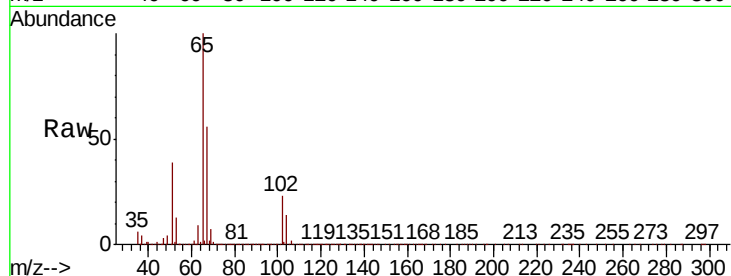
ClientSampleId :

Tot Ion: 65 Resp: 205220

Ion Ratio Lower Upper

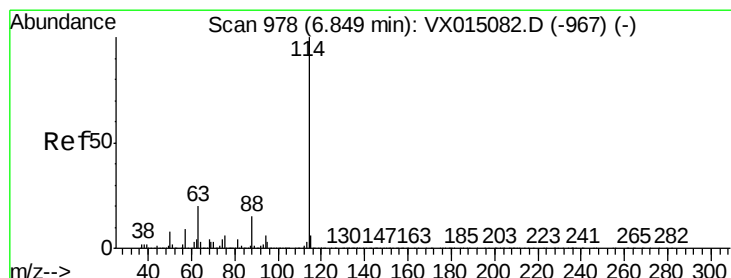
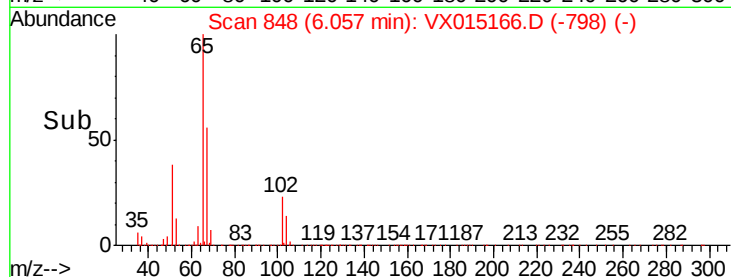
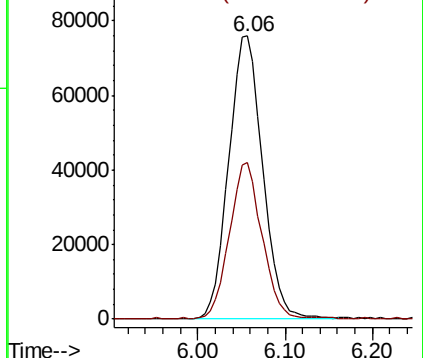
65 100

67 52.4 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

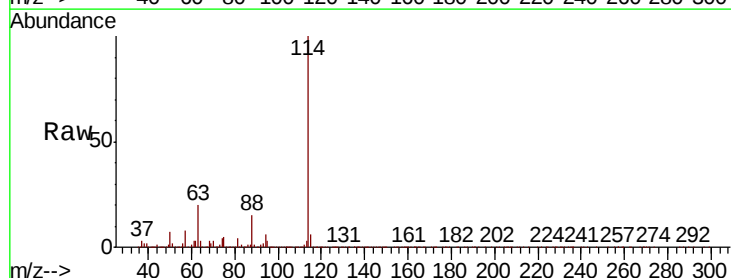
Tgt Ion: 114 Resp: 536124

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

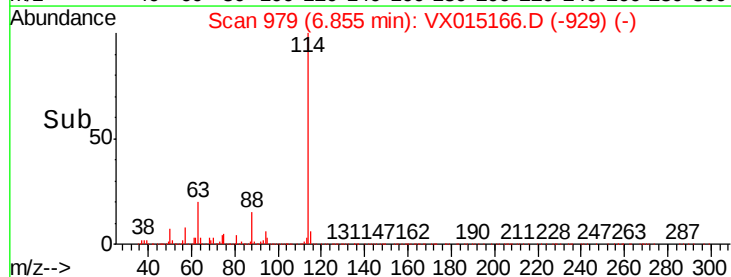
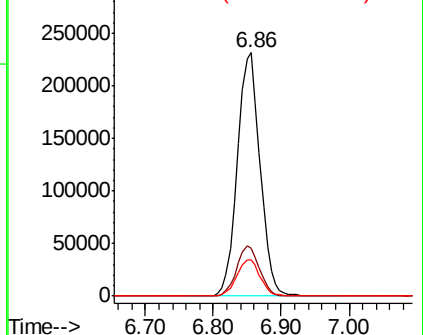
88 14.6 0.0 30.6

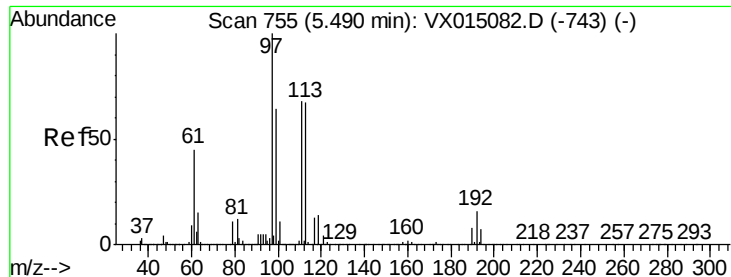


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.865 ug/l

RT: 5.49 min Scan# 755

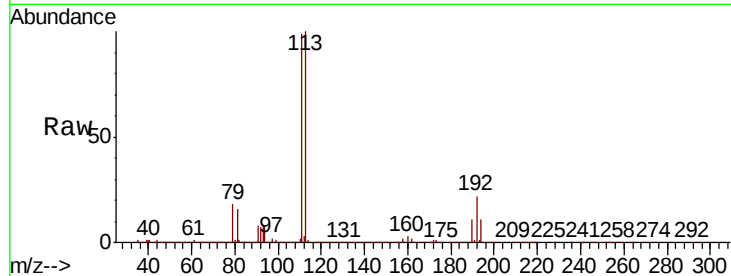
Delta R.T. -0.00 min

Lab File: VX015166.D

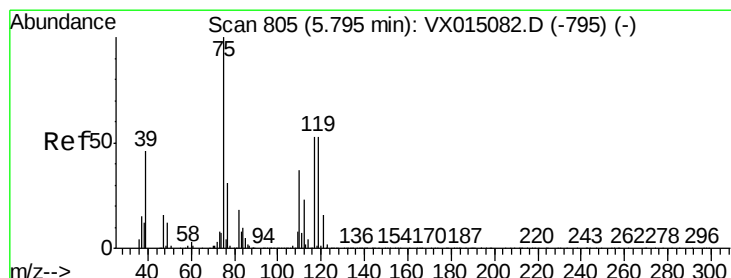
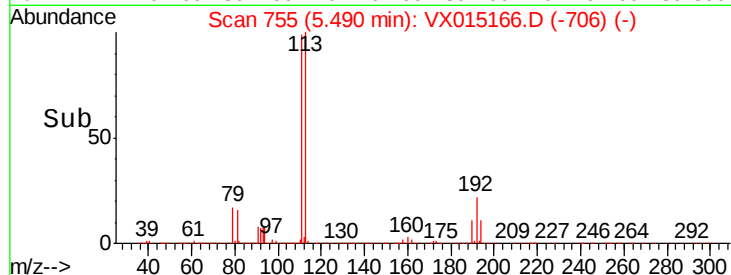
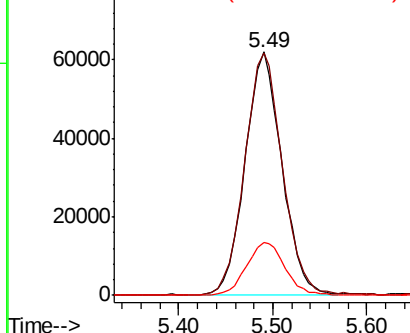
Acq: 10 Mar 2020 13:26

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	113	Resp:	168656
Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.6	123.8
192	23.0	18.6	28.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.705 ug/l

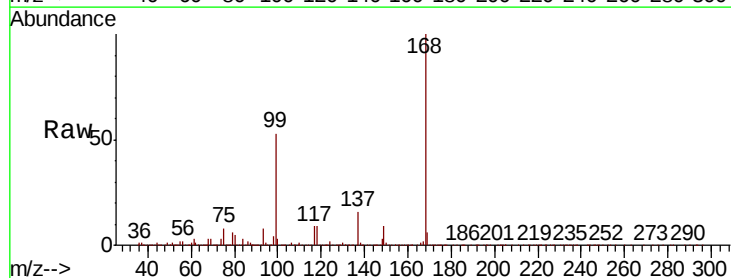
RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

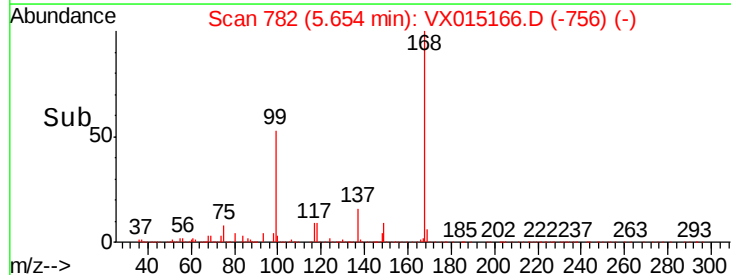
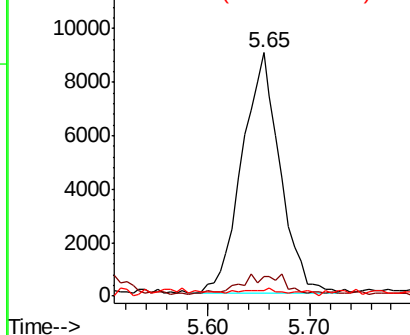
Lab File: VX015166.D

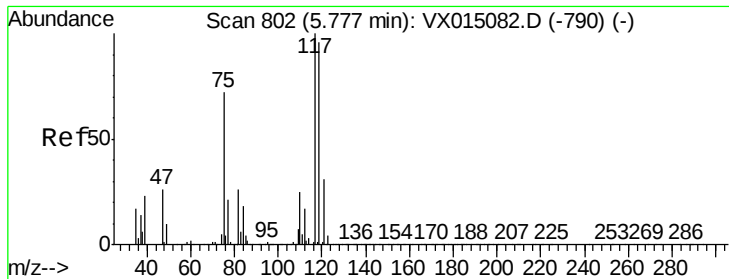
Acq: 10 Mar 2020 13:26

Tgt Ion:	75	Resp:	23321
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.8#
77	0.7	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0

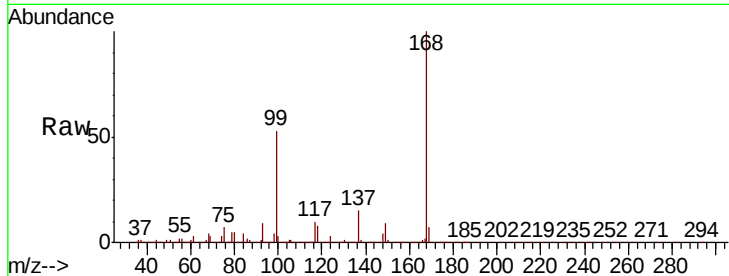




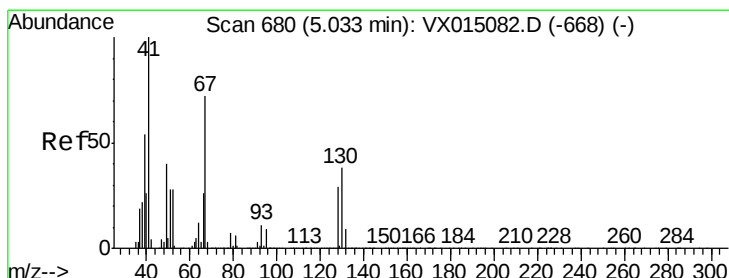
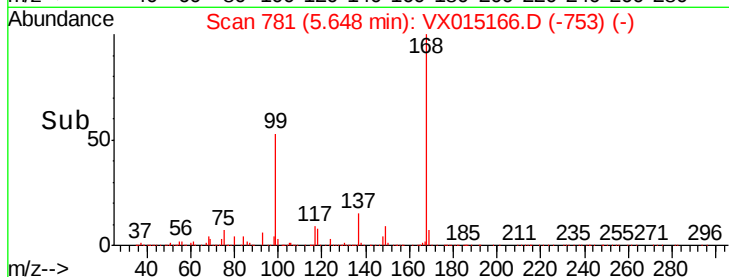
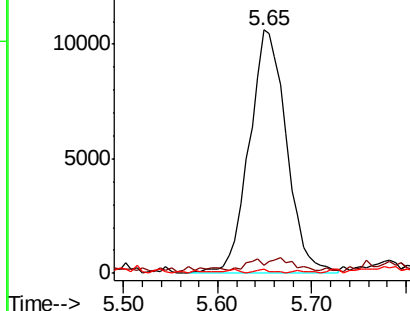
#38
Carbon Tetrachloride
Concen: 6.303 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 29486
Ion Ratio Lower Upper
117 100
119 2.2 76.9 115.3#
121 1.6 24.6 37.0#

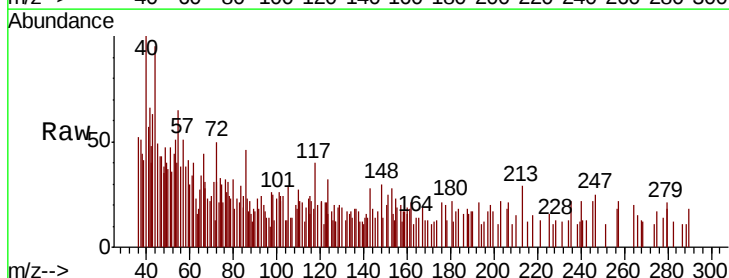


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

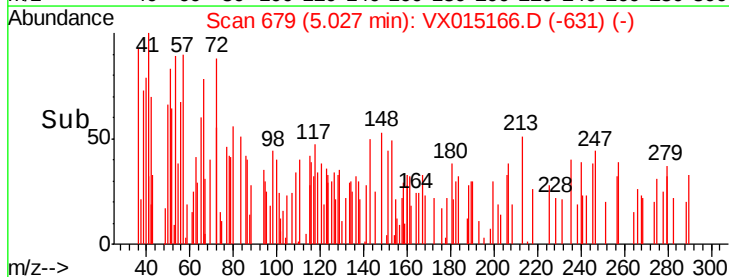
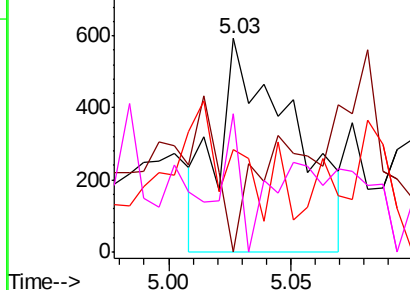


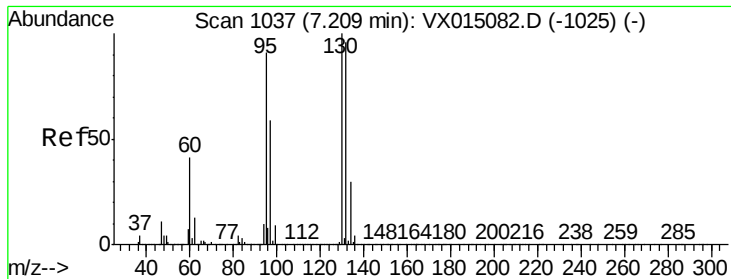
#41
Methacrylonitrile
Concen: 0.461 ug/l
RT: 5.03 min Scan# 679
Delta R.T. -0.01 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Tgt Ion: 41 Resp: 1274
Ion Ratio Lower Upper
41 100
39 0.0 43.9 65.9#
67 0.0 57.8 86.8#
52 15.1 22.6 34.0#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 62.288 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

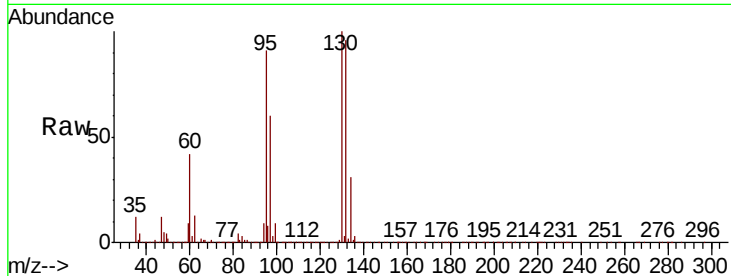
ClientSampled :

Tot Ion:130 Resp: 255075

Ion Ratio Lower Upper

130 100

95 91.2 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

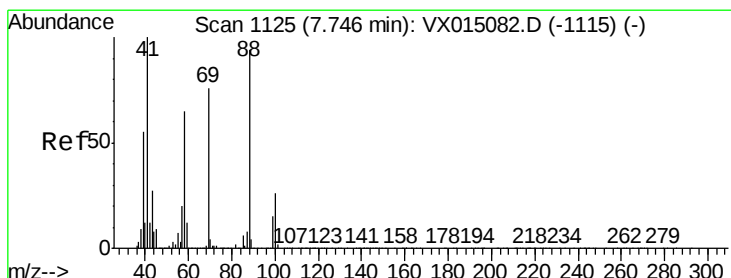
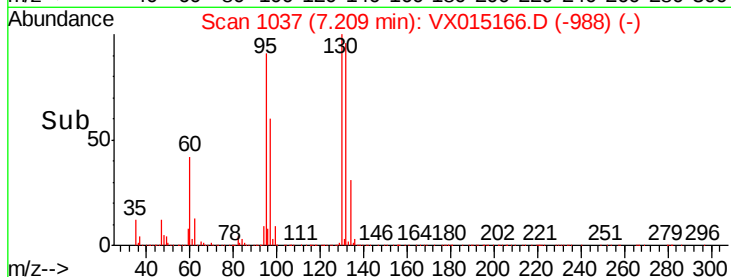
7.21

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 20.854 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

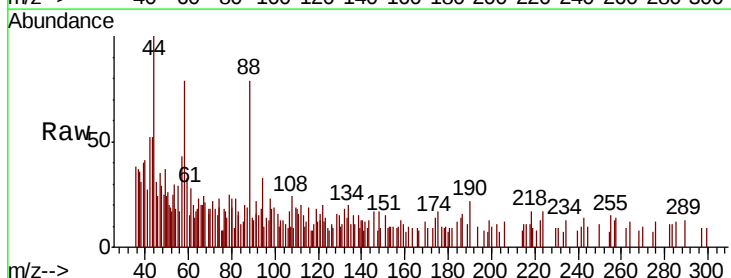
Tgt Ion: 88 Resp: 1856

Ion Ratio Lower Upper

88 100

43 44.7 27.0 40.4#

58 75.9 55.6 83.4



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

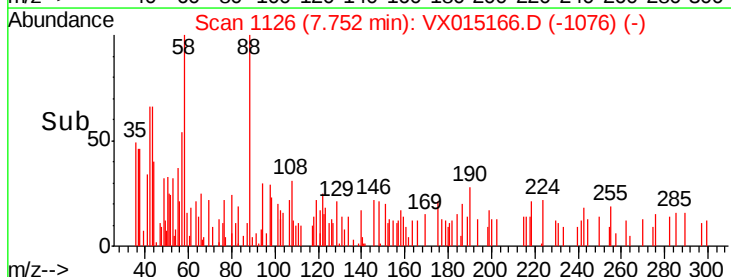
600

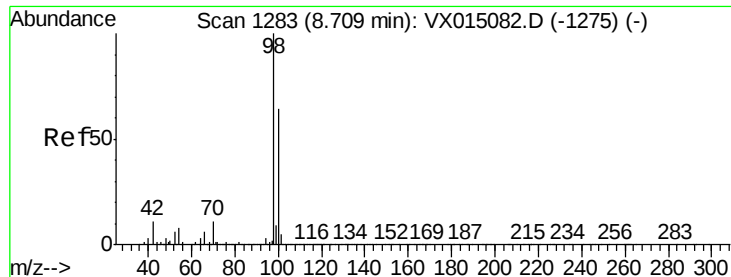
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.941 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

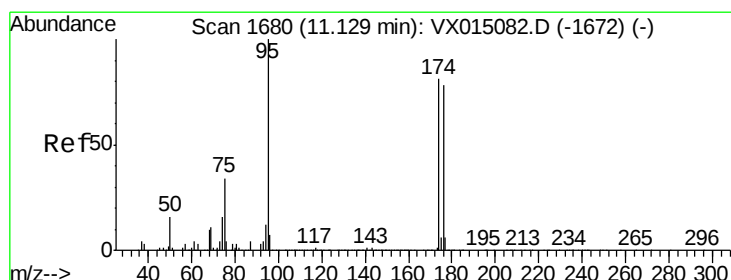
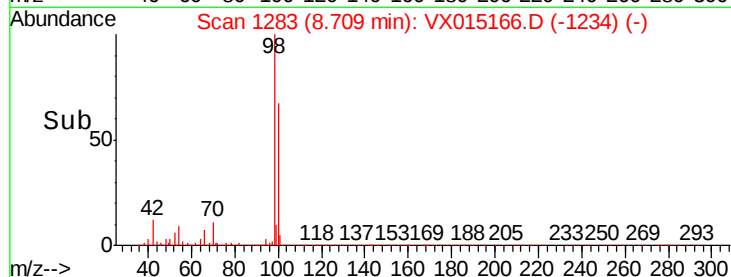
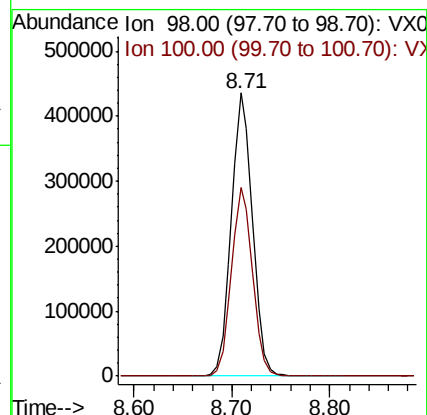
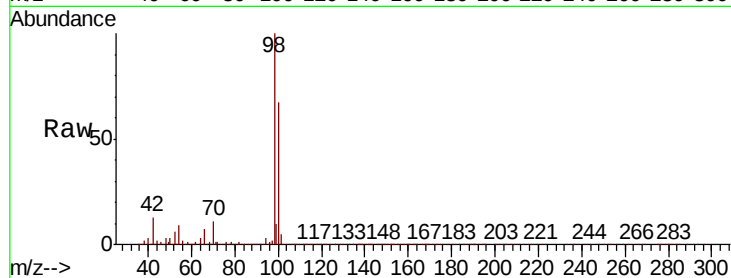
ClientSampleId :

Tot Ion: 98 Resp: 655381

Ion Ratio Lower Upper

98 100

100 66.4 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 51.962 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

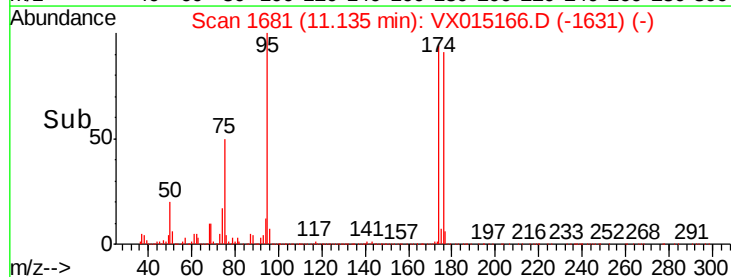
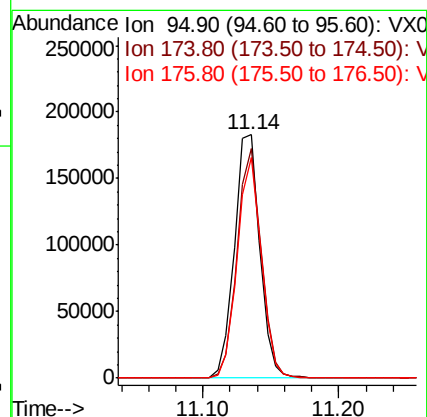
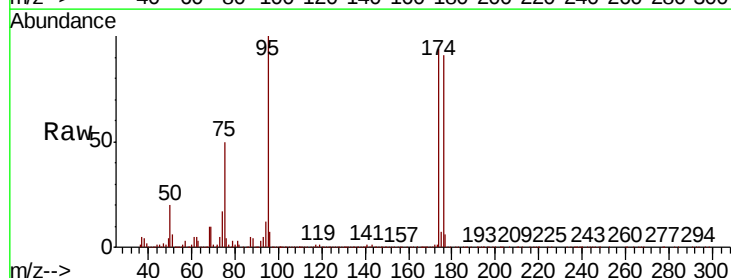
Tgt Ion: 95 Resp: 238453

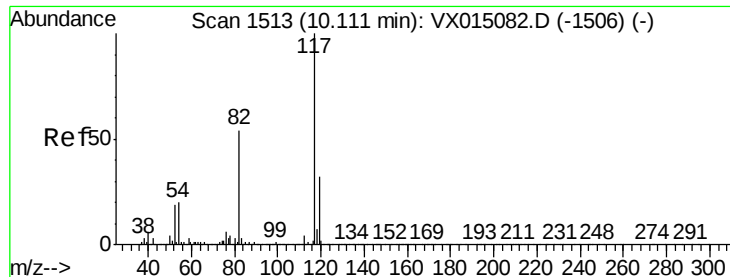
Ion Ratio Lower Upper

95 100

174 89.8 0.0 177.6

176 86.1 0.0 170.2

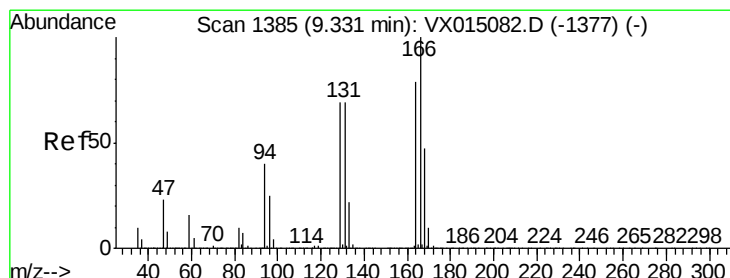
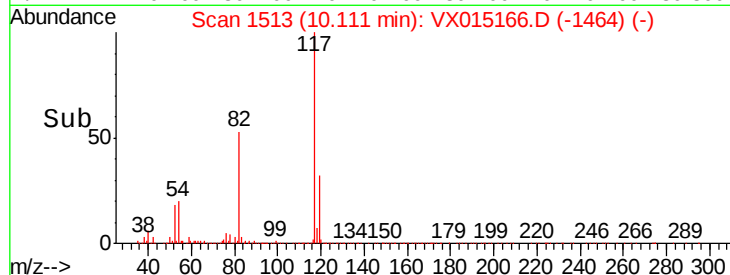
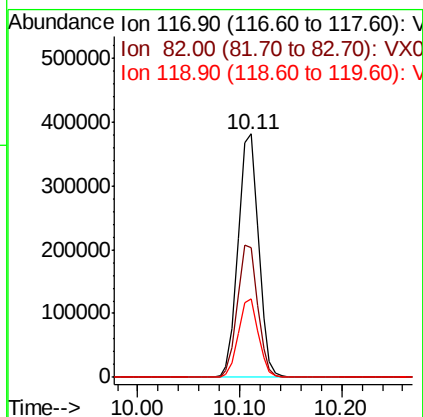
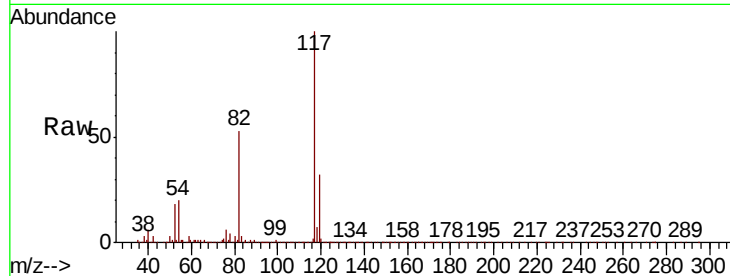




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

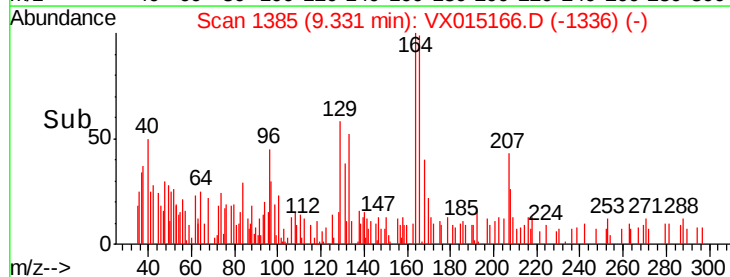
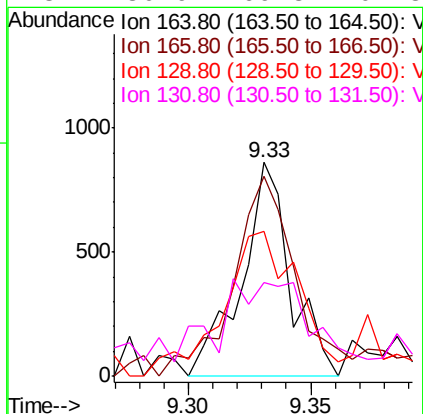
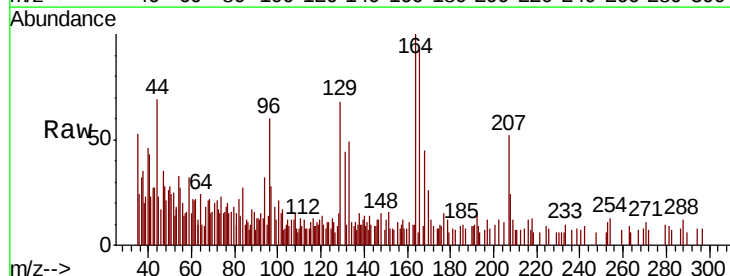
Instrument :
MSVOA_X
ClientSampleId :

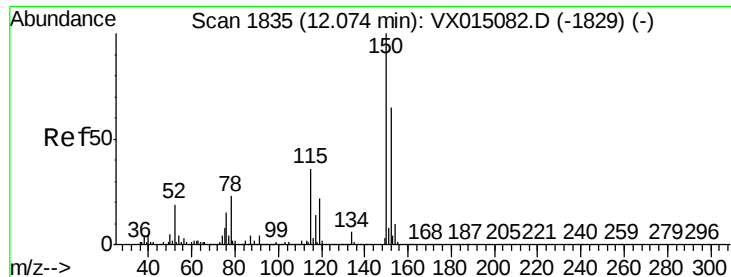
Tot Ion:117 Resp: 524177
Ion Ratio Lower Upper
117 100
82 53.3 43.3 64.9
119 32.1 25.8 38.8



#64
Tetrachloroethene
Concen: 0.276 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Tgt Ion:164 Resp: 1197
Ion Ratio Lower Upper
164 100
166 84.8 101.1 151.7#
129 61.2 69.4 104.0#
131 30.9 69.8 104.8#



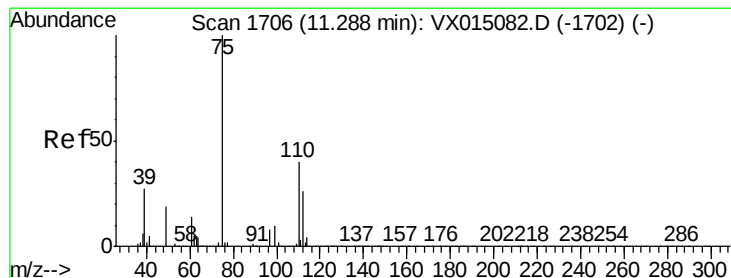
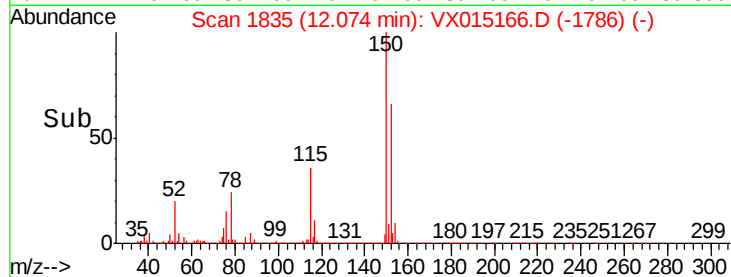
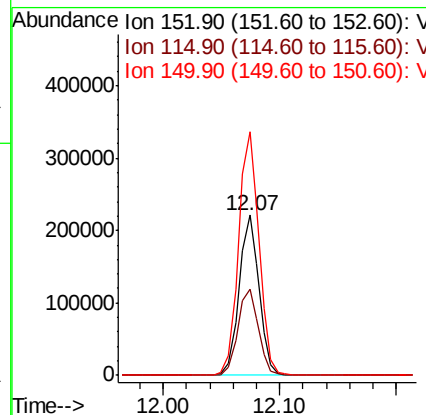
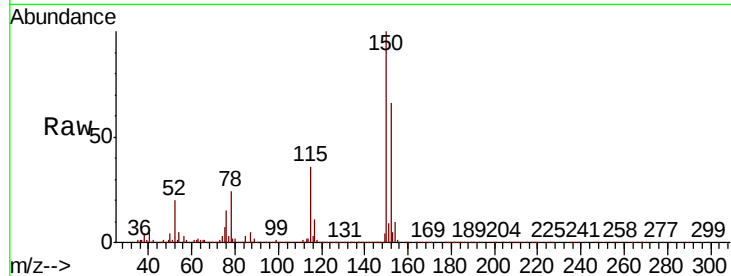


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Instrument :
MSVOA_X
ClientSampleId :

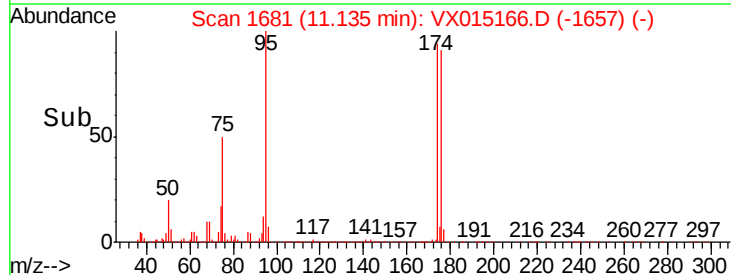
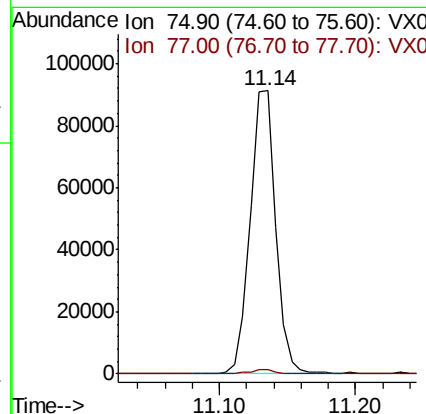
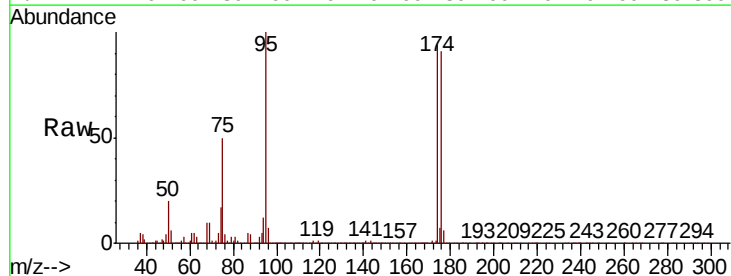
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	38.2	114.6
150	155.3	0.0	343.8

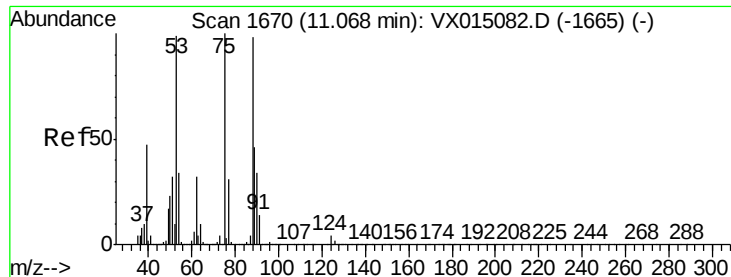


#76

1,2,3-Trichloropropane
Concen: 22.712 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.15 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	22.6	67.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 64.456 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

Instrument :

MSVOA_X

ClientSampleId :

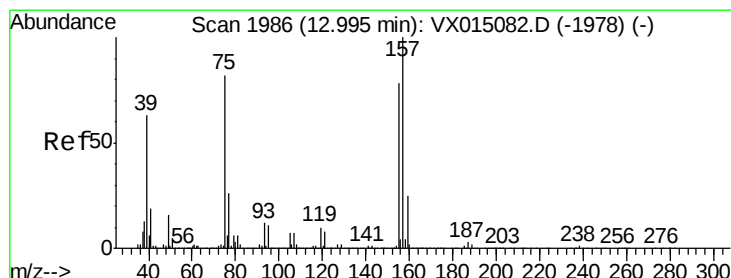
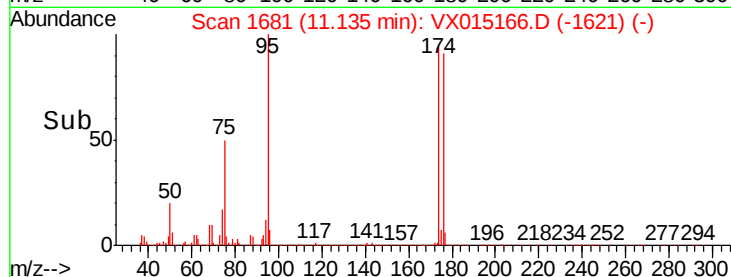
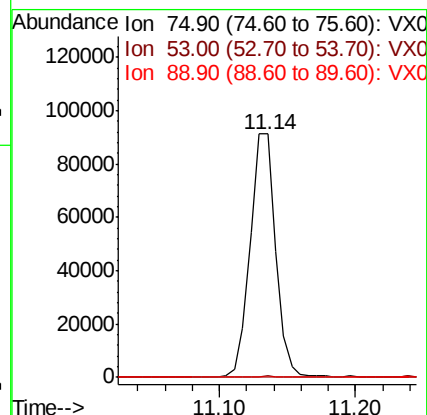
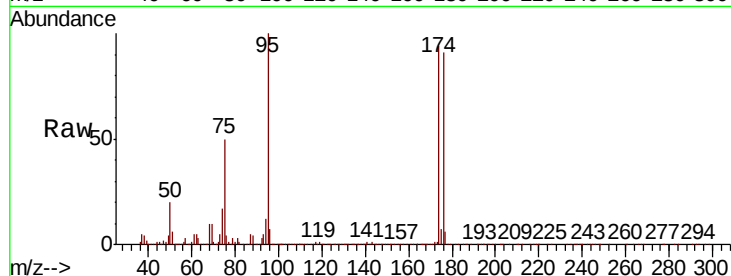
Tot Ion: 75 Resp: 119608

Ion Ratio Lower Upper

75 100

53 0.7 77.9 116.9#

89 0.1 36.2 54.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.222 ug/l

RT: 12.87 min Scan# 1965

Delta R.T. -0.13 min

Lab File: VX015166.D

Acq: 10 Mar 2020 13:26

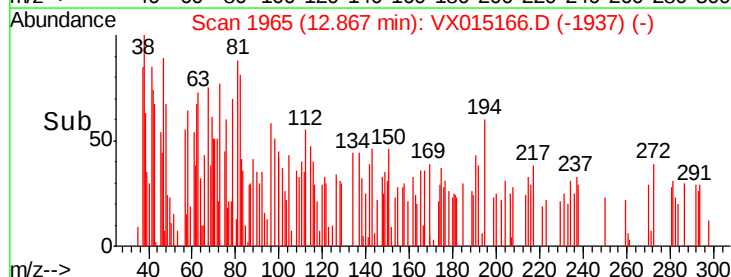
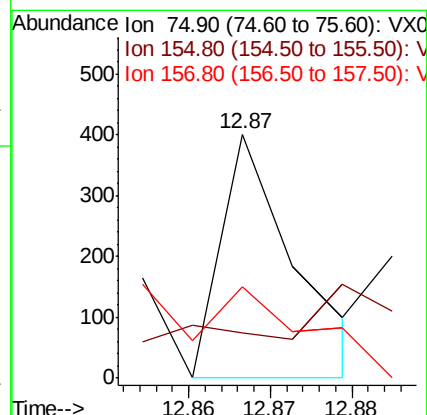
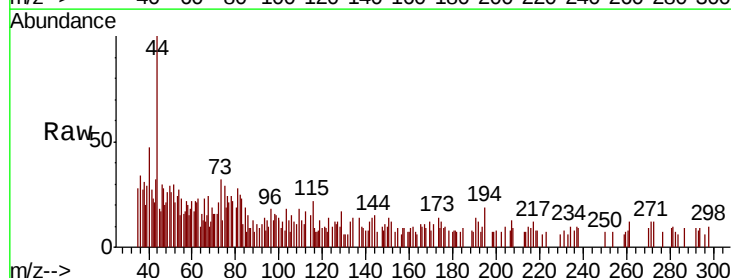
Tgt Ion: 75 Resp: 250

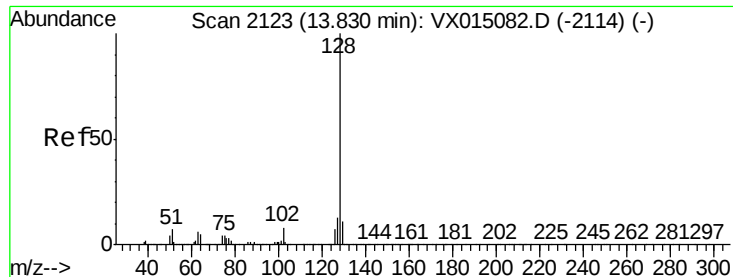
Ion Ratio Lower Upper

75 100

155 62.0 46.6 139.7

157 86.0 59.2 177.5





#95
Naphthalene
Concen: 1.473 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015166.D
Acq: 10 Mar 2020 13:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	15.8	8.6	13.0#

