

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014283.D
 Acq On : 26 Dec 2019 20:37
 Operator : JC/SP
 Sample : K6405-05DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)DL

Quant Time: Dec 27 06:06:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

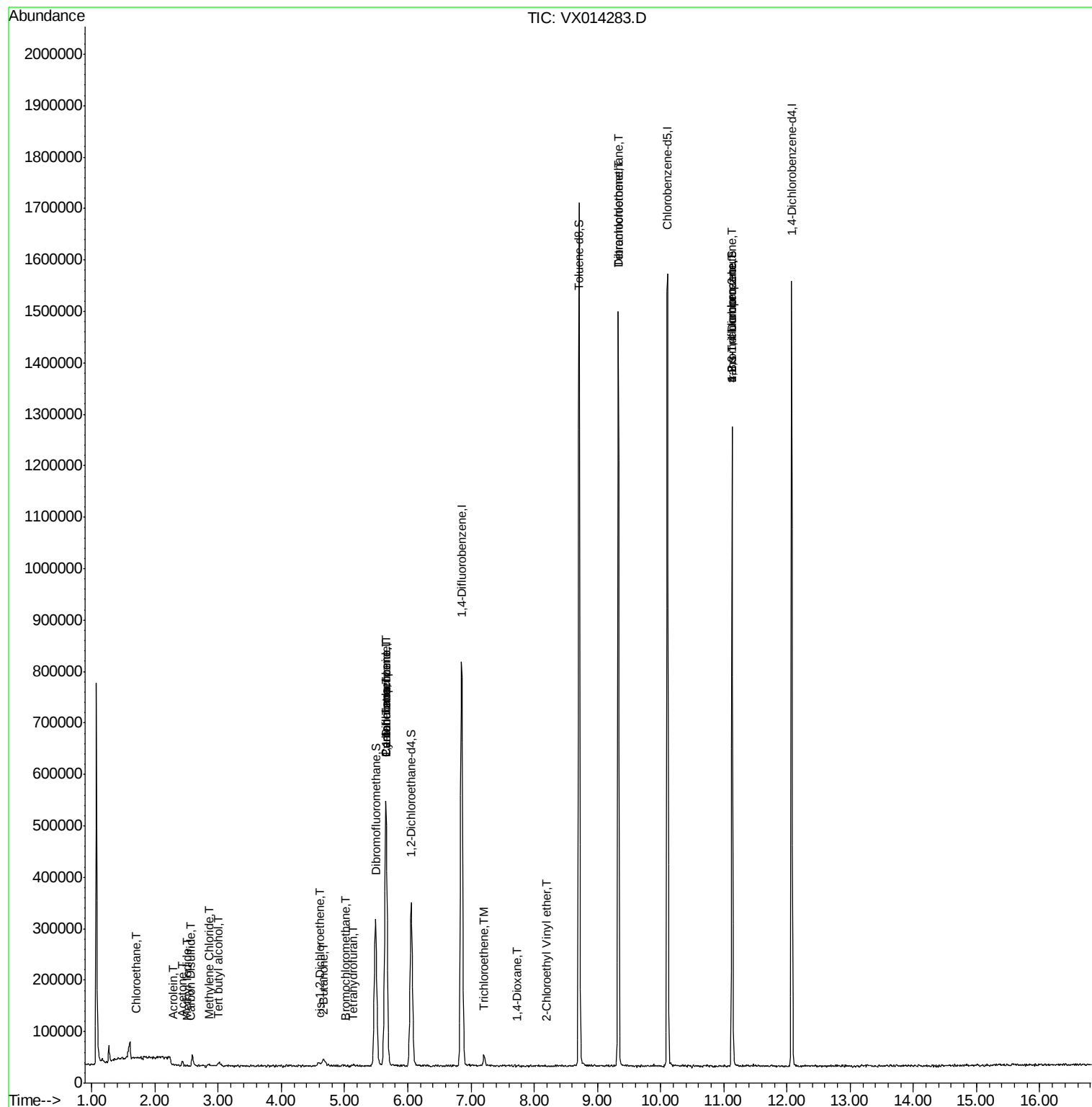
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	530079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	816484	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	736656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	320708	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	300079	49.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.90%	
35) Dibromofluoromethane	5.49	113	248434	50.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.10%	
50) Toluene-d8	8.71	98	982658	50.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	11.13	95	329402	46.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.26%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.70	64	974	0.235	ug/l #	85
10) Methyl Iodide	2.51	142	550	2.700	ug/l #	1
11) Tert butyl alcohol	3.00	59	5879	4.529	ug/l	98
13) Acrolein	2.30	56	1018	1.370	ug/l #	14
16) Acetone	2.43	43	10861	2.785	ug/l	91
17) Carbon Disulfide	2.56	76	501	0.785	ug/l #	1
20) Methylene Chloride	2.86	84	2446	0.398	ug/l #	80
25) 2-Butanone	4.67	43	3826	0.796	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	6125	0.964	ug/l	85
28) Bromochloromethane	5.01	49	561	0.597	ug/l #	74
29) Tetrahydrofuran	5.13	42	862	0.320	ug/l #	74
31) Cyclohexane	5.65	56	10862	1.210	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	35756	4.773	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45999	6.740	ug/l #	18
44) Trichloroethene	7.21	130	9225	1.449	ug/l	90
49) 1,4-Dioxane	7.73	88	295	2.162	ug/l #	77
58) 2-Chloroethyl Vinyl ether	8.20	63	856	0.247	ug/l	98
60) Dibromochloromethane	9.33	129	250254	43.114	ug/l #	11
64) Tetrachloroethene	9.33	164	282687	43.367	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	159615	22.925	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	159615	64.706	ug/l #	12

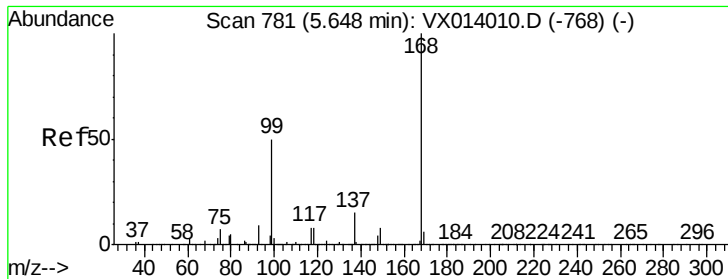
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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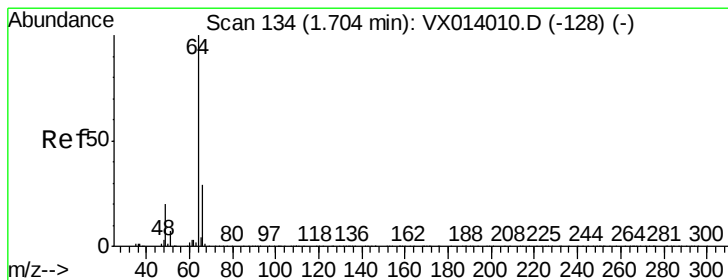
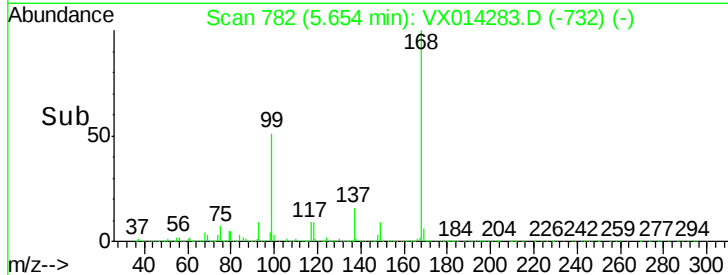
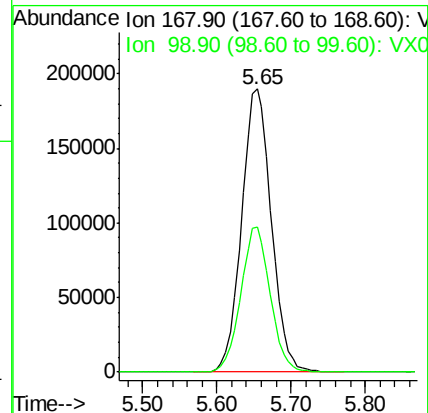
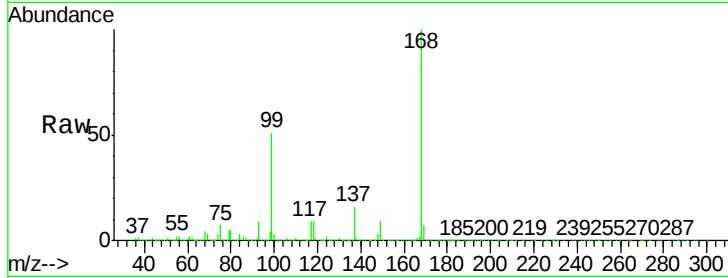


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX014283.D
 Acq: 26 Dec 2019 20:37

Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)DL

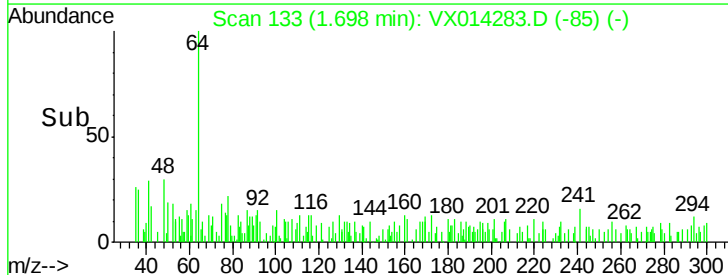
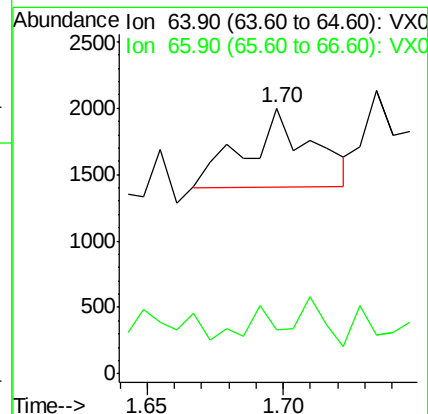
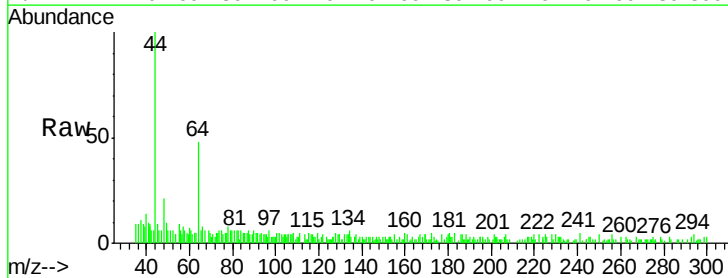
Tgt Ion: 168 Resp: 530079
 Ion Ratio Lower Upper
 168 100
 99 51.0 40.3 60.5

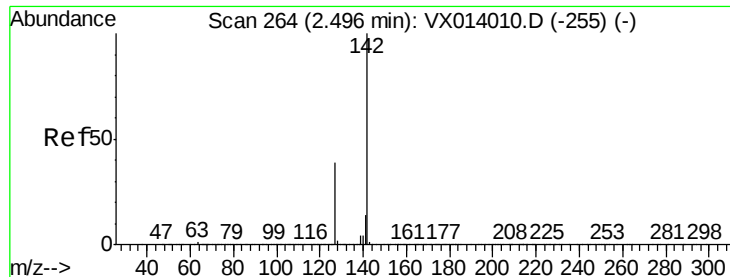


#6

Chloroethane
 Concen: 0.235 ug/l
 RT: 1.70 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VX014283.D
 Acq: 26 Dec 2019 20:37

Tgt Ion: 64 Resp: 974
 Ion Ratio Lower Upper
 64 100
 66 21.2 23.4 35.2#

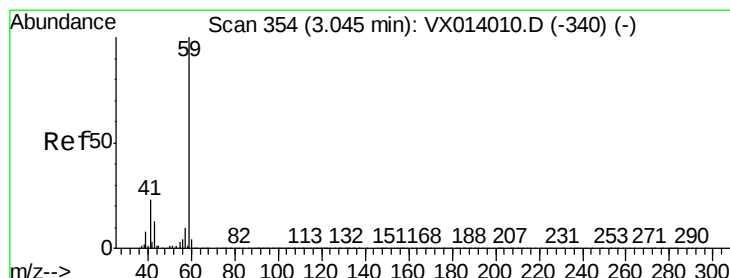
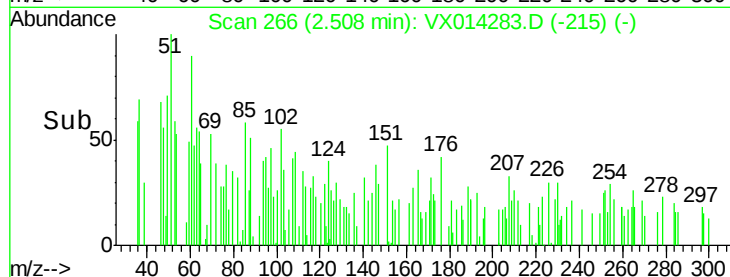
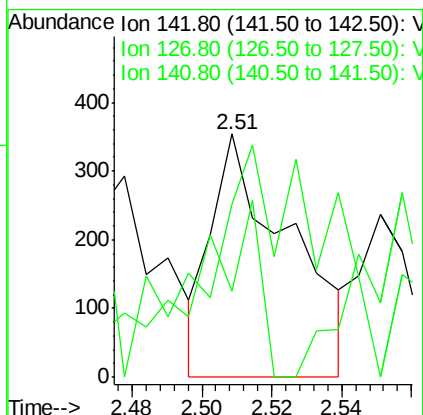
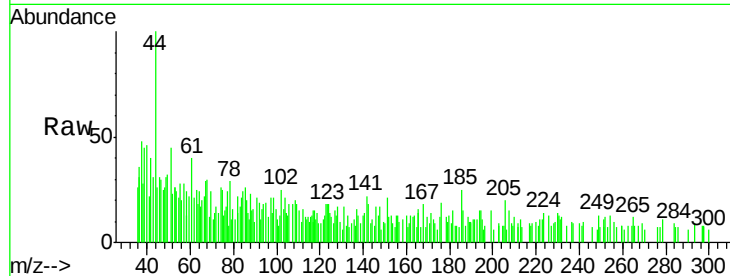




#10
Methyl Iodide
Concen: 2.700 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

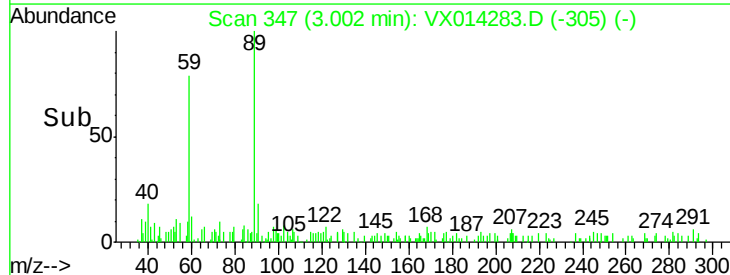
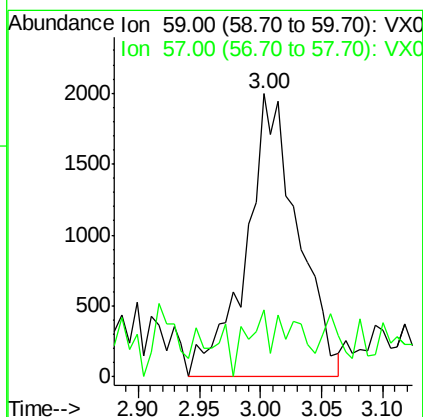
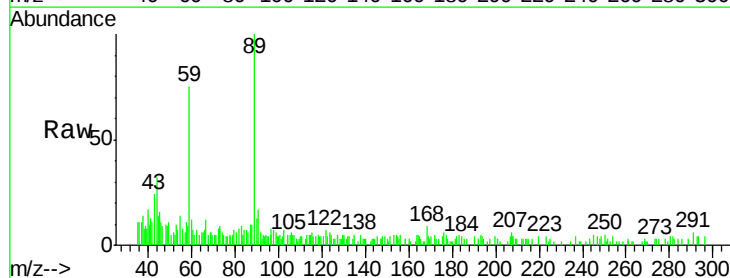
Instrument :
MSVOA_X
ClientSampleId :
995-MW-11-(15)DL

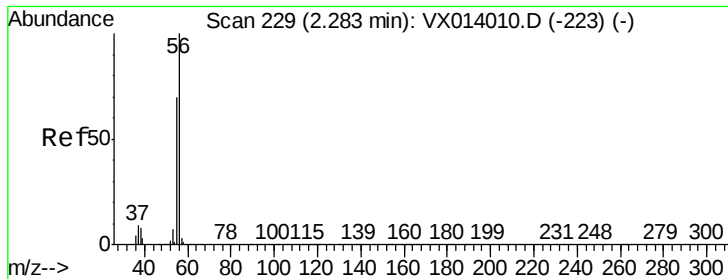
Tgt Ion:142 Resp: 550
Ion Ratio Lower Upper
142 100
127 127.6 31.6 47.4#
141 52.5 11.6 17.4#



#11
Tert butyl alcohol
Concen: 4.529 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

Tgt Ion: 59 Resp: 5879
Ion Ratio Lower Upper
59 100
57 9.8 8.4 12.6

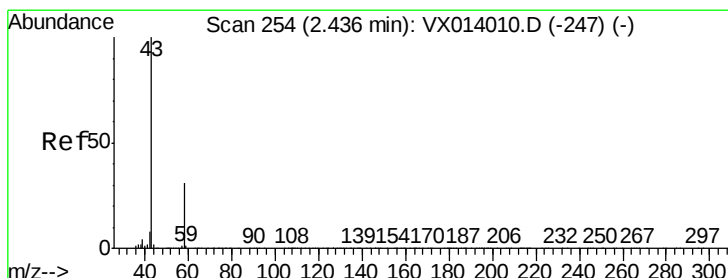
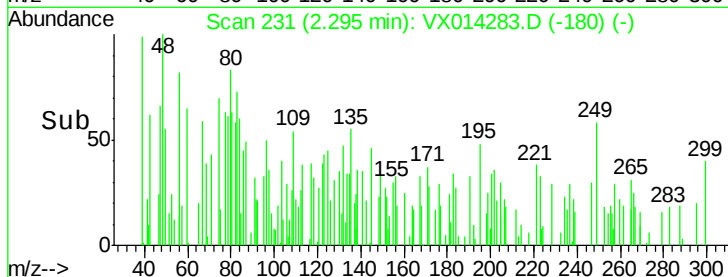
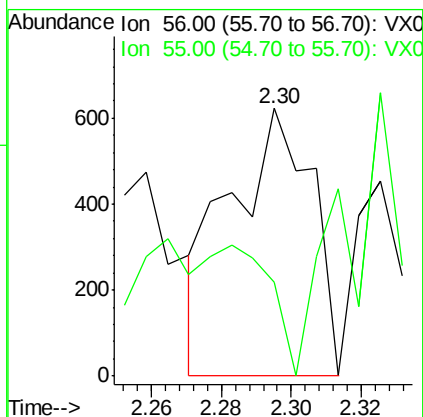
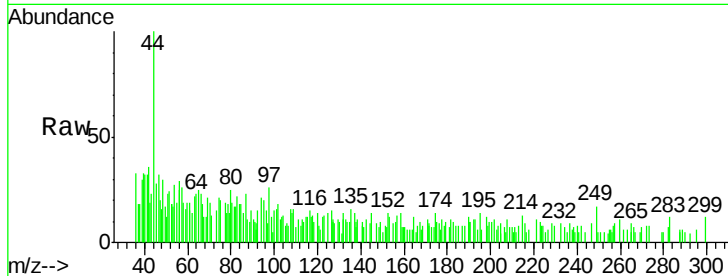




#13
Acrolein
Concen: 1.370 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

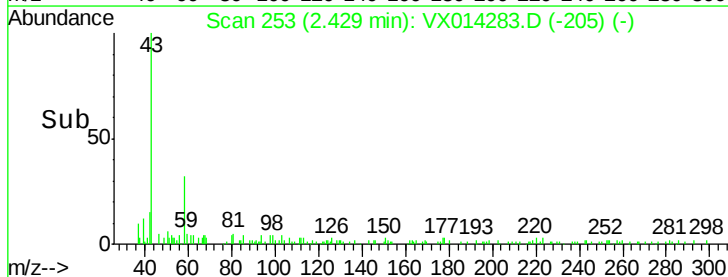
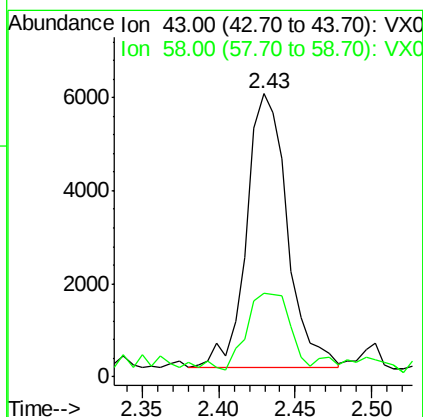
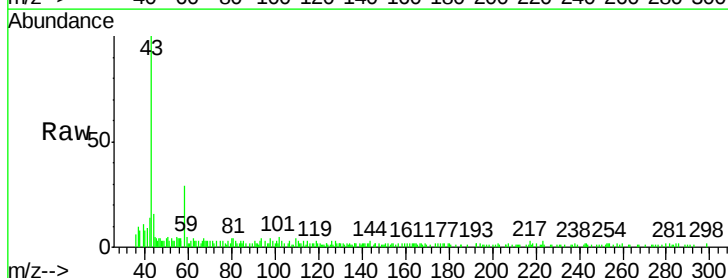
Instrument :
MSVOA_X
ClientSampleId :
995-MW-11-(15)DL

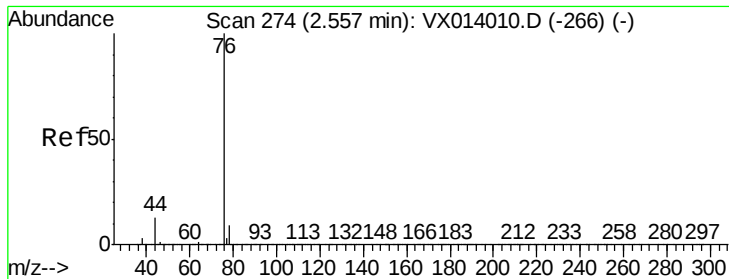
Tgt Ion: 56 Resp: 1018
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 2.785 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

Tgt Ion: 43 Resp: 10861
Ion Ratio Lower Upper
43 100
58 26.2 24.9 37.3





#17

Carbon Disulfide

Concen: 0.785 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

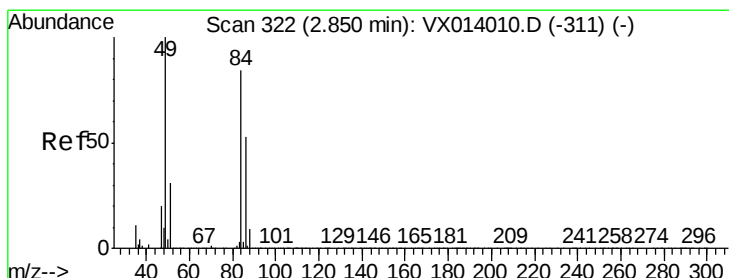
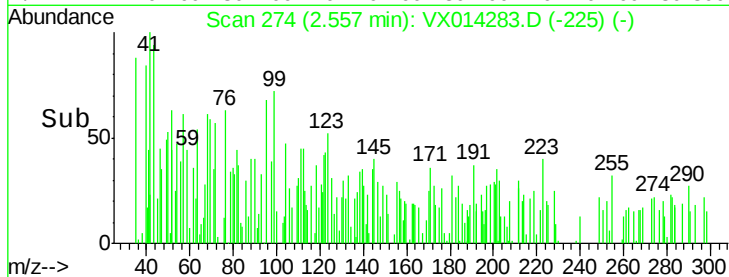
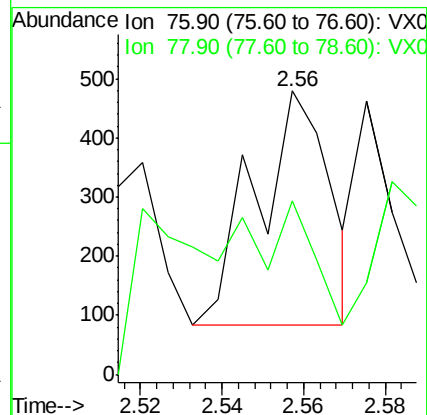
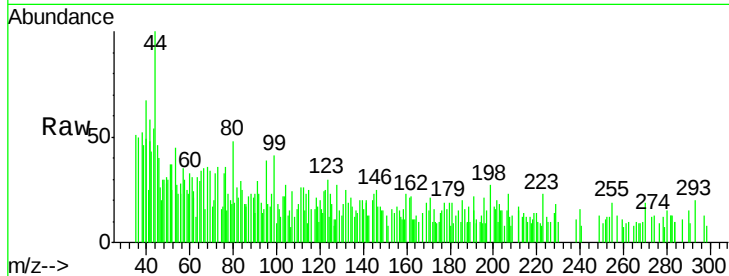
995-MW-11-(15)DL

Tgt Ion: 76 Resp: 501

Ion Ratio Lower Upper

76 100

78 52.8 7.2 10.8#



#20

Methylene Chloride

Concen: 0.398 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Tgt Ion: 84 Resp: 2446

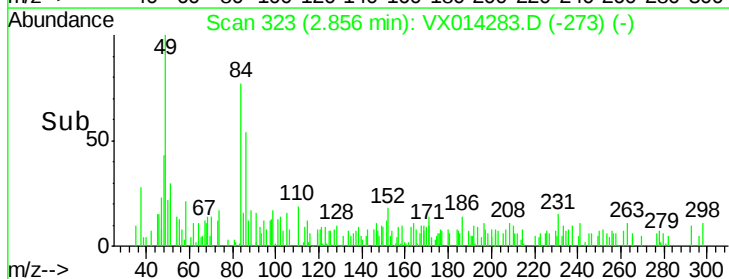
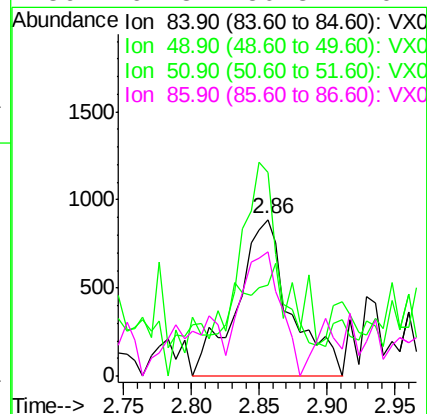
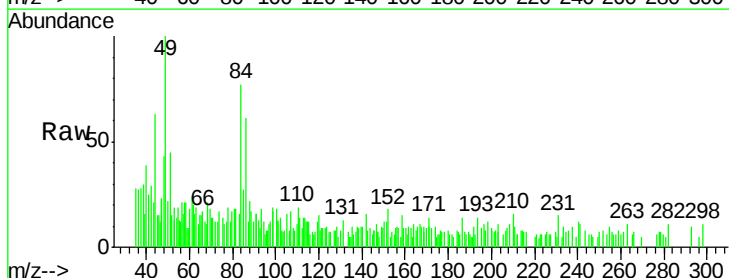
Ion Ratio Lower Upper

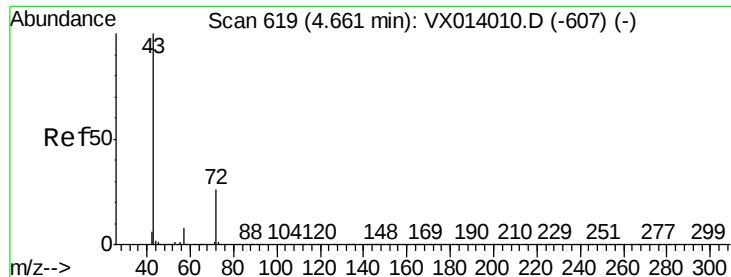
84 100

49 94.0 95.8 143.6#

51 10.5 29.8 44.8#

86 62.8 50.8 76.2





#25

2-Butanone

Concen: 0.796 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

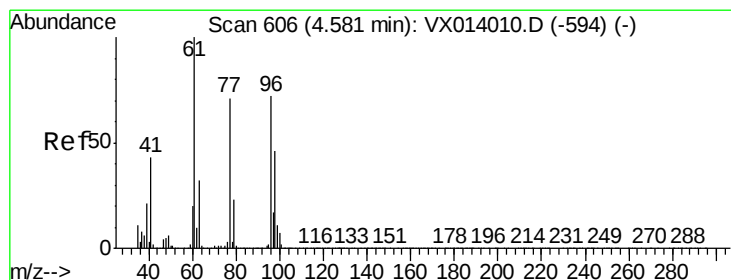
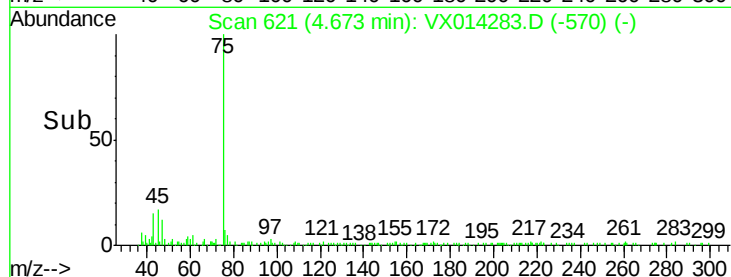
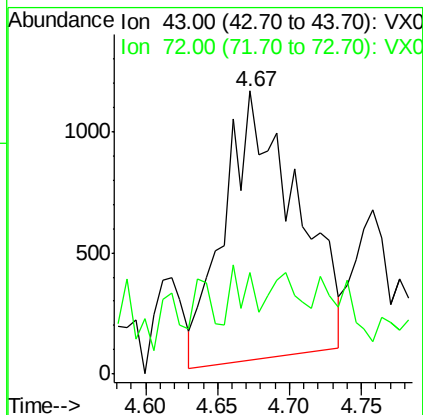
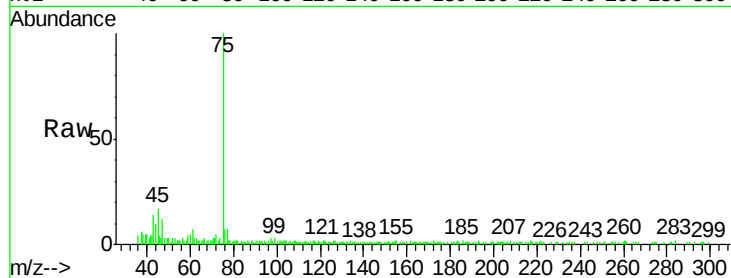
995-MW-11-(15)DL

Tgt Ion: 43 Resp: 3826

Ion Ratio Lower Upper

43 100

72 23.4 21.0 31.4



#27

cis-1,2-Dichloroethene

Concen: 0.964 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

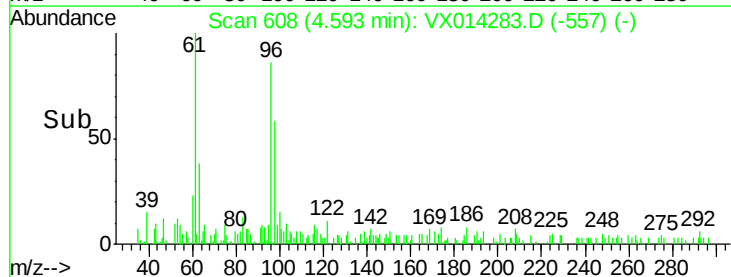
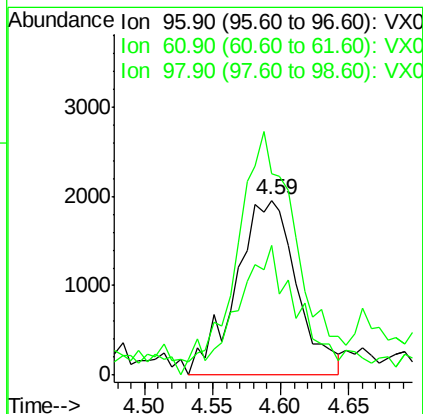
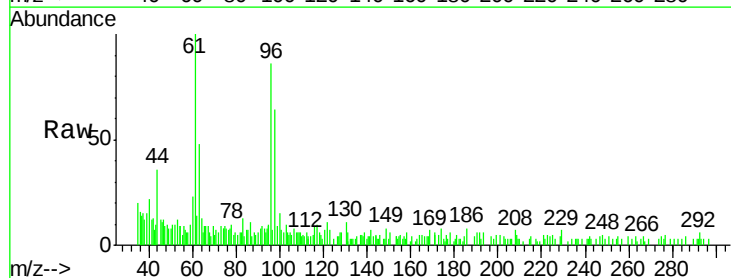
Tgt Ion: 96 Resp: 6125

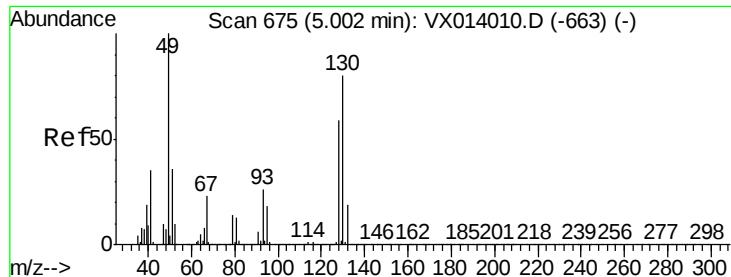
Ion Ratio Lower Upper

96 100

61 119.6 0.0 288.4

98 60.8 0.0 129.6





#28

Bromochloromethane

Concen: 0.597 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)DL

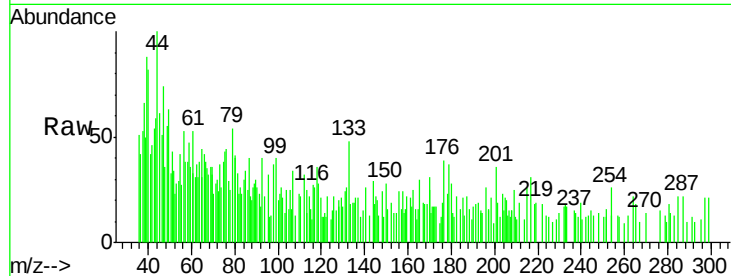
Tgt Ion: 49 Resp: 561

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 56.9 64.6 97.0#



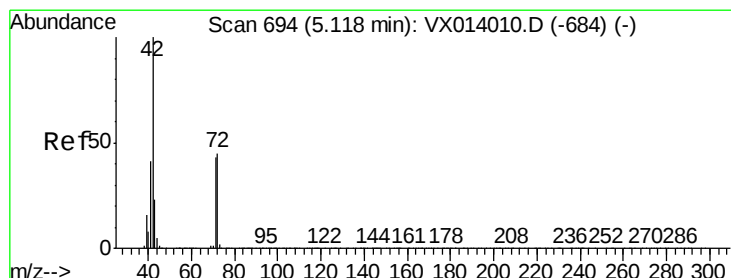
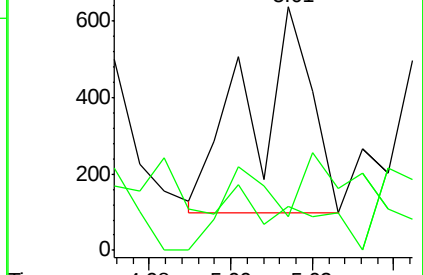
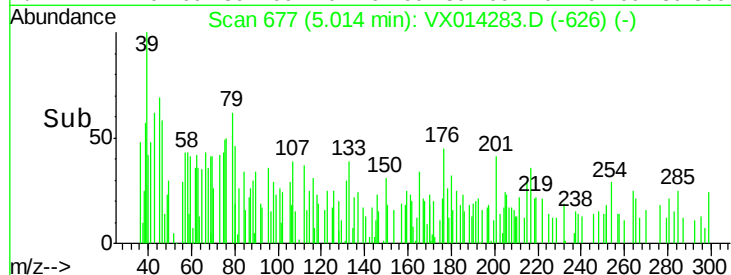
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

Time-->



#29

Tetrahydrofuran

Concen: 0.320 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

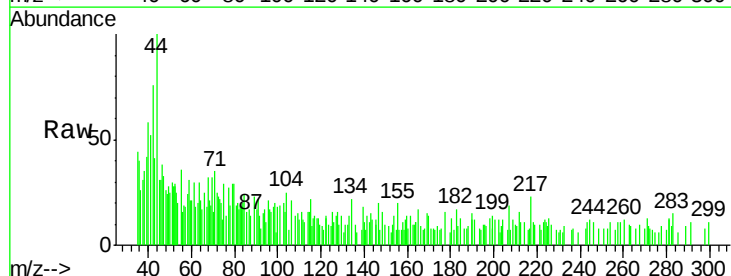
Tgt Ion: 42 Resp: 862

Ion Ratio Lower Upper

42 100

72 23.1 35.8 53.8#

71 30.2 33.6 50.4#



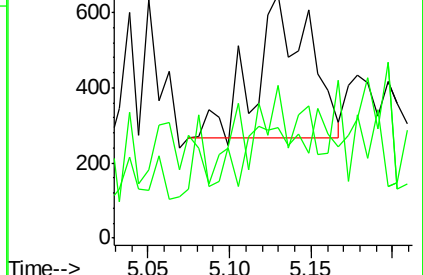
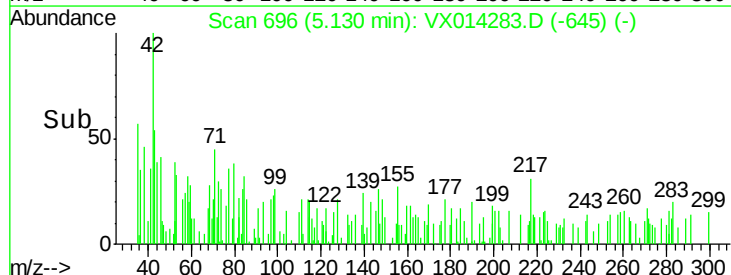
Abundance Ion 42.00 (41.70 to 42.70): VX0

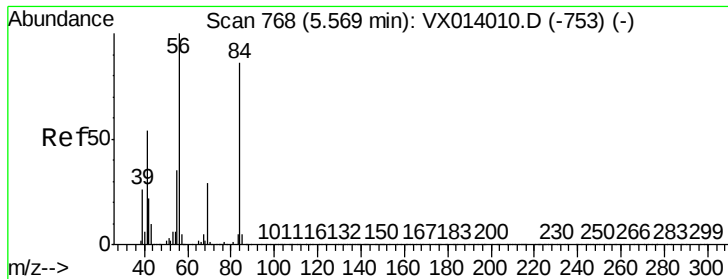
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.13

Time-->

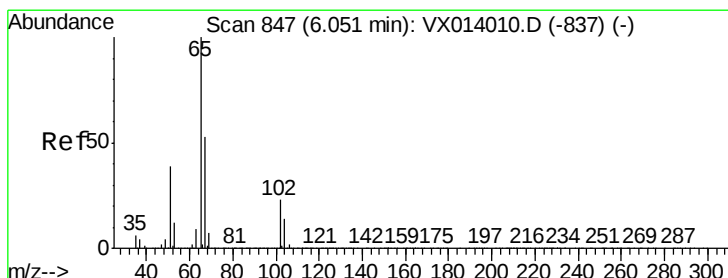
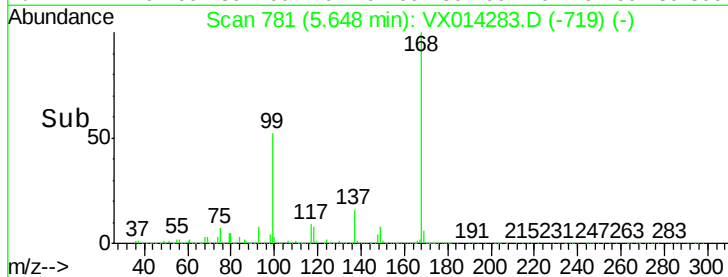
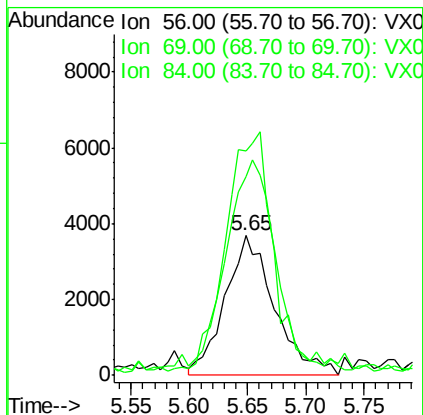
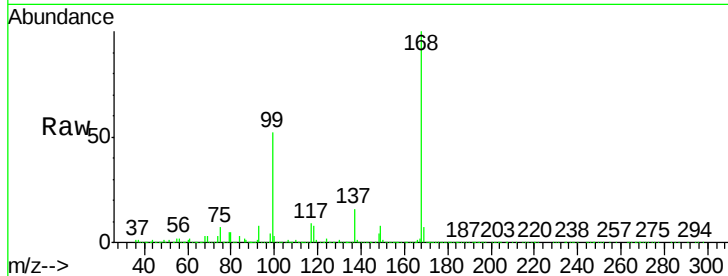




#31
Cyclohexane
Concen: 1.210 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

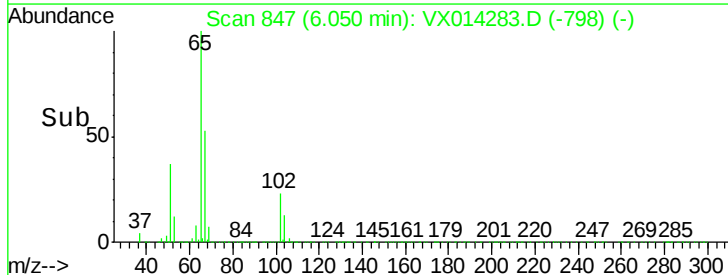
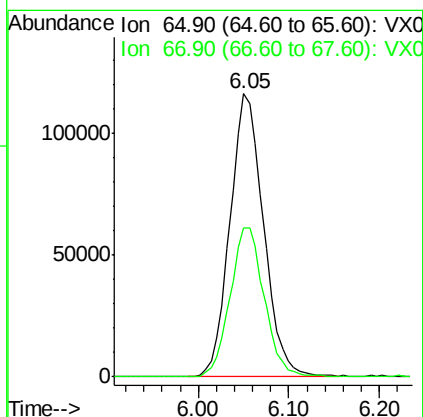
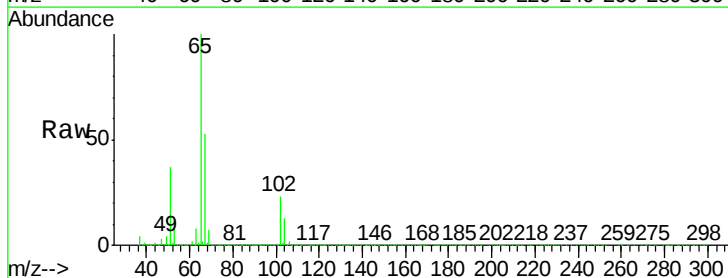
Instrument :
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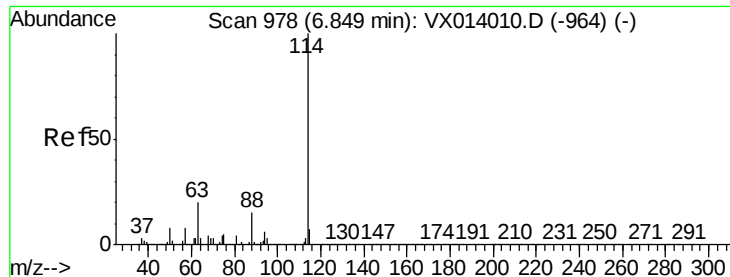
Tgt Ion: 56 Resp: 10862
Ion Ratio Lower Upper
56 100
69 162.2 23.2 34.8#
84 145.2 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 49.949 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

Tgt Ion: 65 Resp: 300079
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)DL

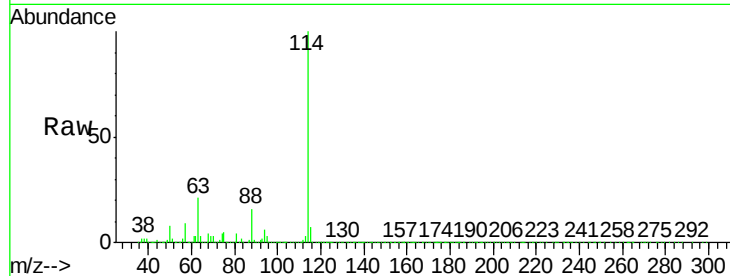
Tgt Ion:114 Resp: 816484

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

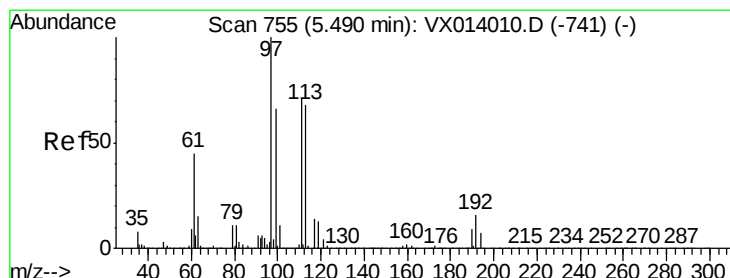
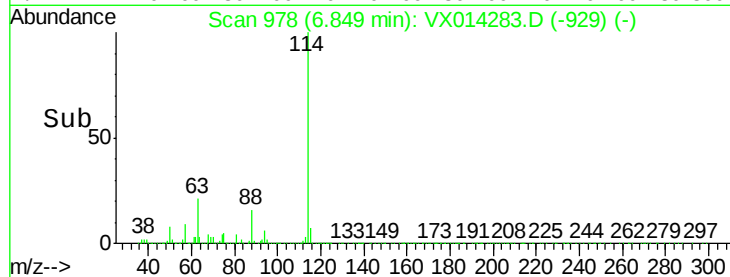
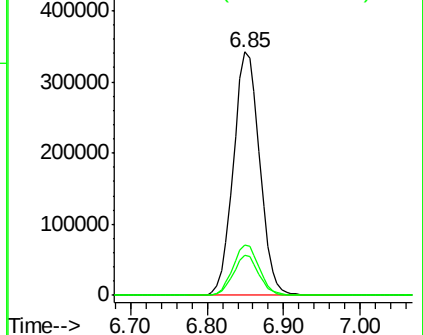
88 16.2 0.0 30.4



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: 50.054 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

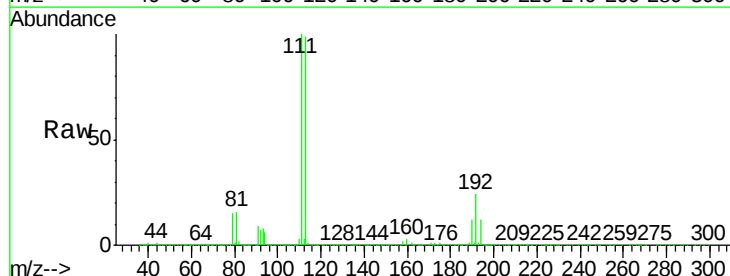
Tgt Ion:113 Resp: 248434

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

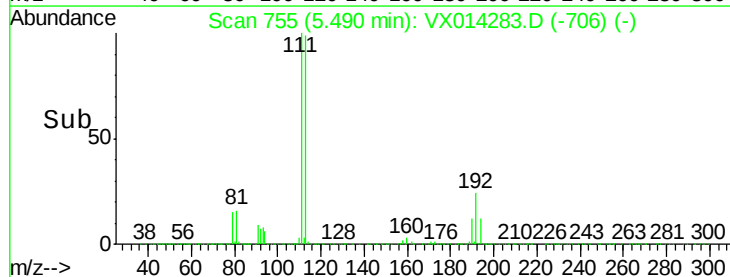
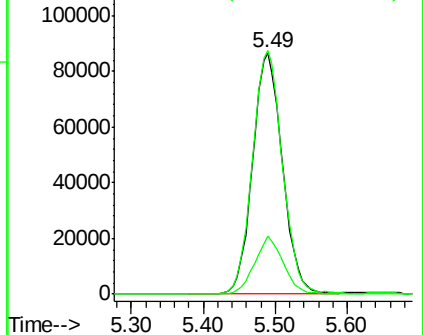
192 22.8 19.3 28.9

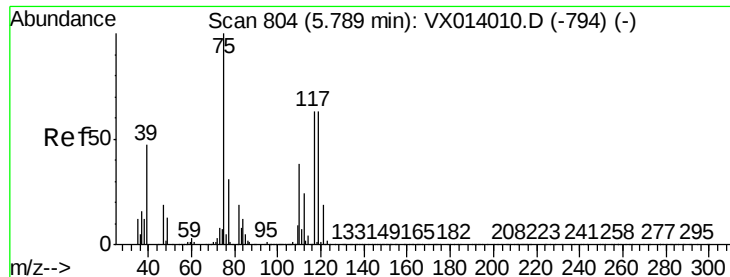


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

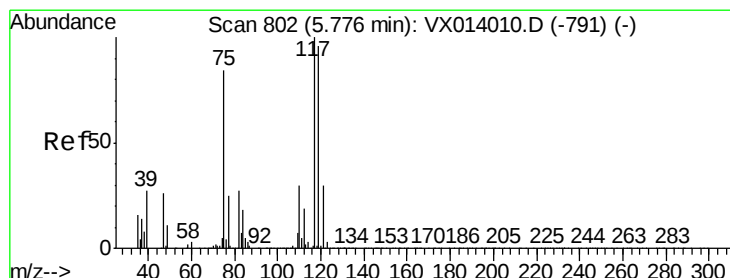
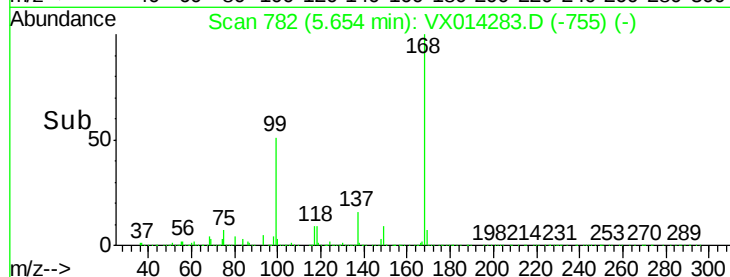
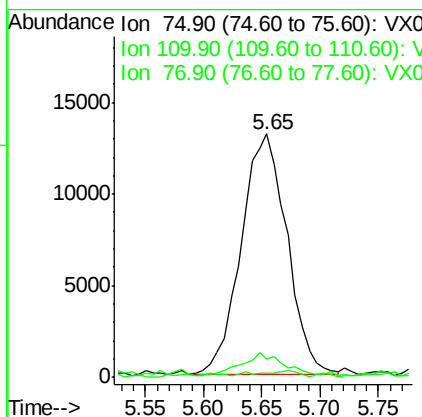
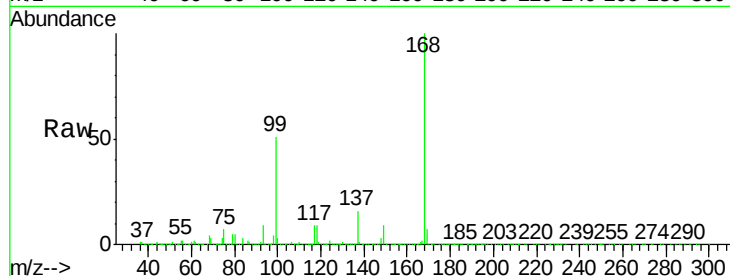




#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014283.D
 Acq: 26 Dec 2019 20:37

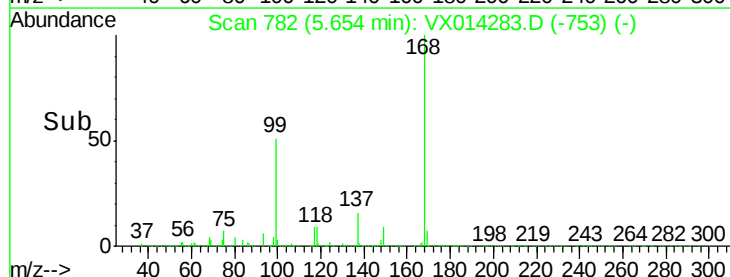
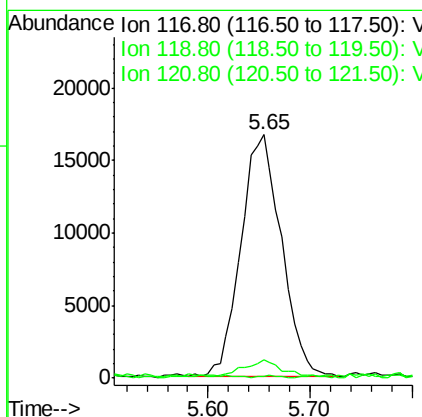
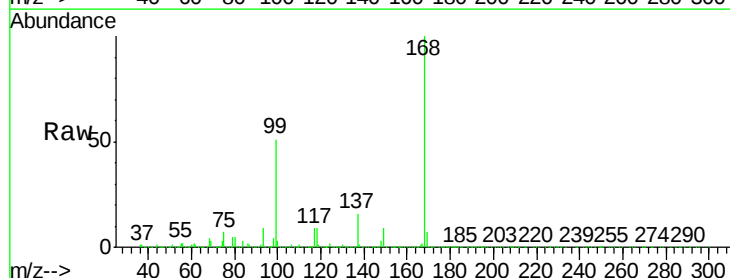
Instrument :
 MSVOA_X
 ClientSampleId :
 995-MW-11-(15)DL

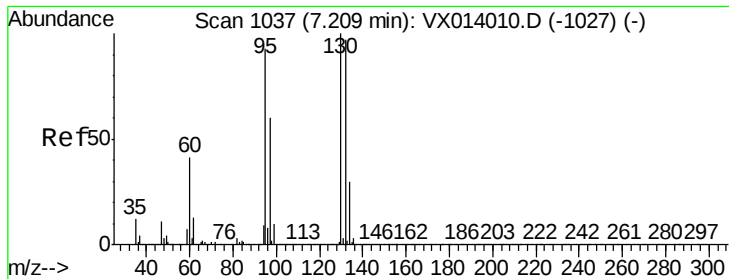
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.3	54.9#
77	0.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.740 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014283.D
 Acq: 26 Dec 2019 20:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.8	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 1.449 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

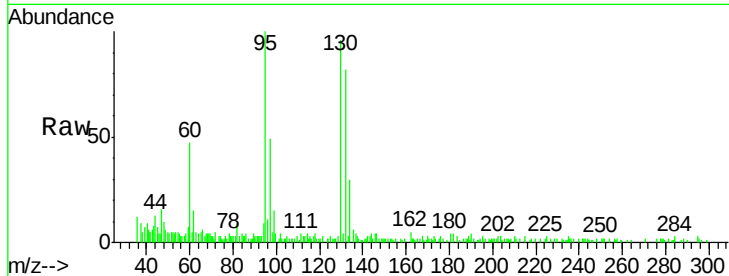
995-MW-11-(15)DL

Tgt Ion:130 Resp: 9225

Ion Ratio Lower Upper

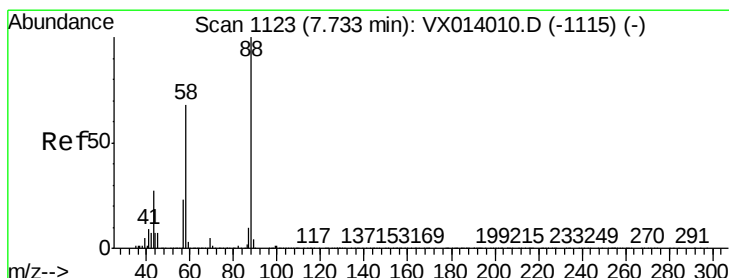
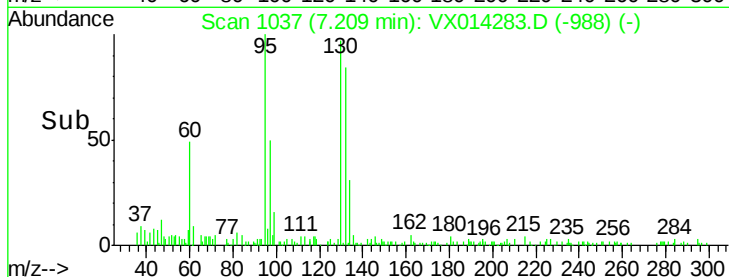
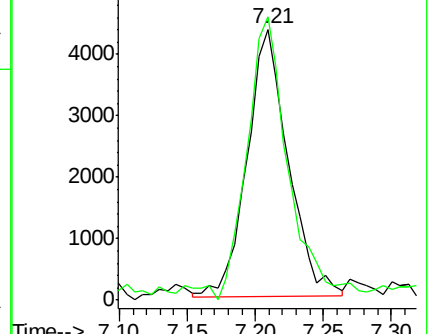
130 100

95 102.6 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.162 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

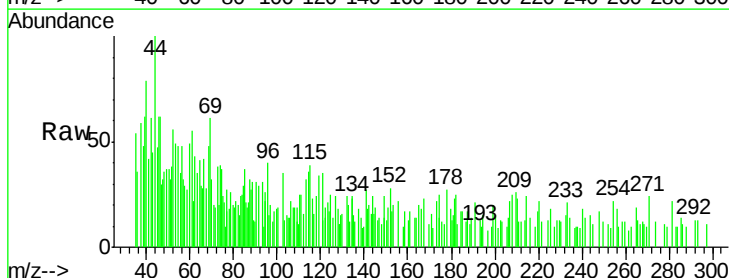
Tgt Ion: 88 Resp: 295

Ion Ratio Lower Upper

88 100

43 49.5 26.5 39.7#

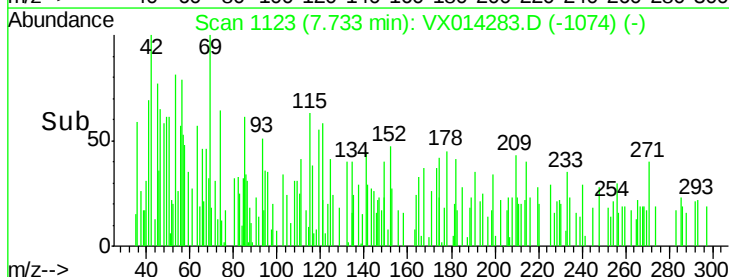
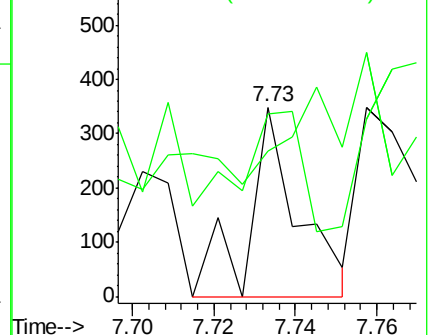
58 54.6 56.8 85.2#

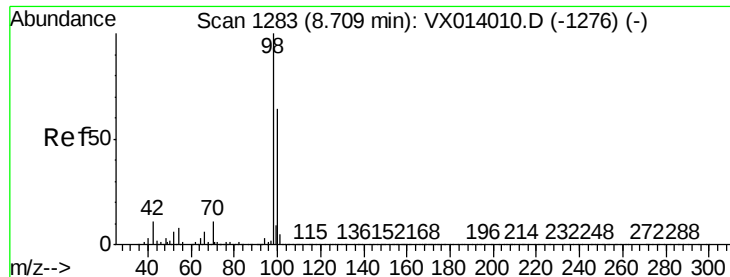


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.853 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

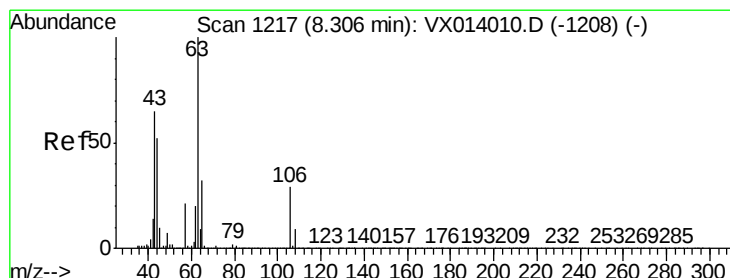
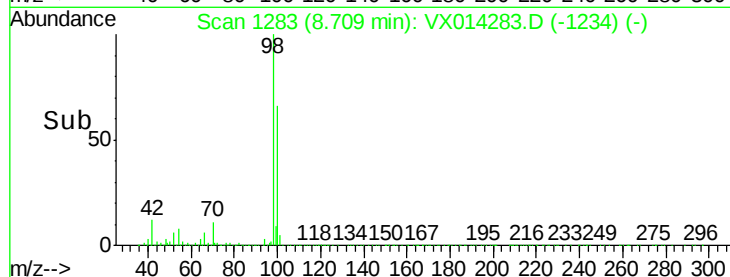
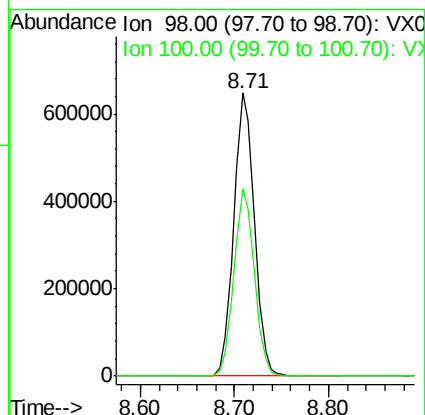
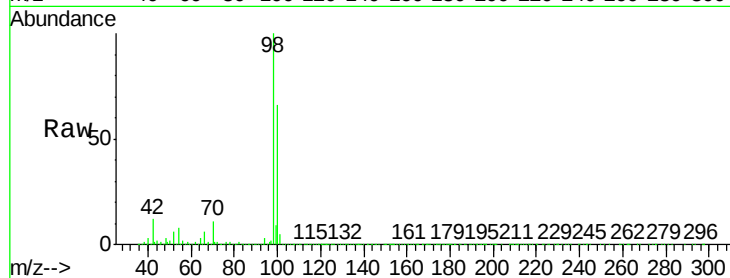
995-MW-11-(15)DL

Tgt Ion: 98 Resp: 982658

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#58

2-Chloroethyl Vinyl ether

Concen: 0.247 ug/l

RT: 8.20 min Scan# 1199

Delta R.T. -0.11 min

Lab File: VX014283.D

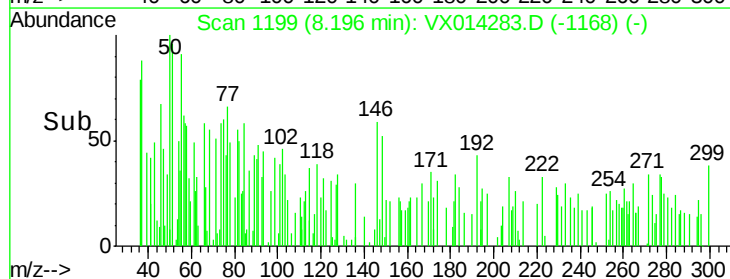
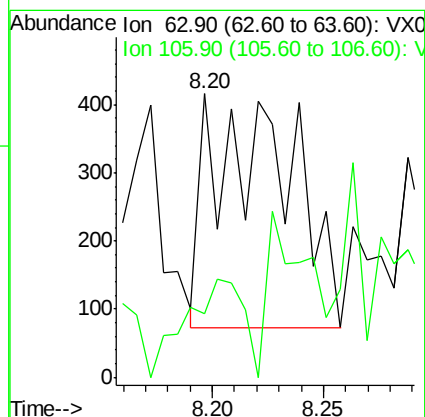
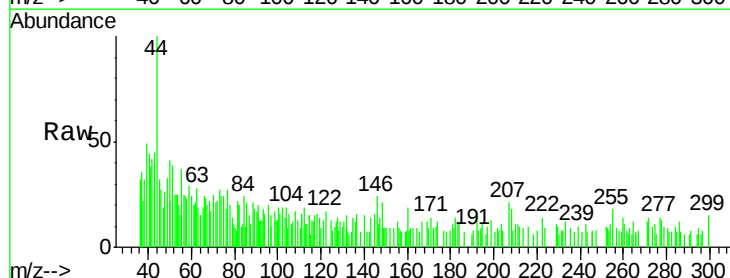
Acq: 26 Dec 2019 20:37

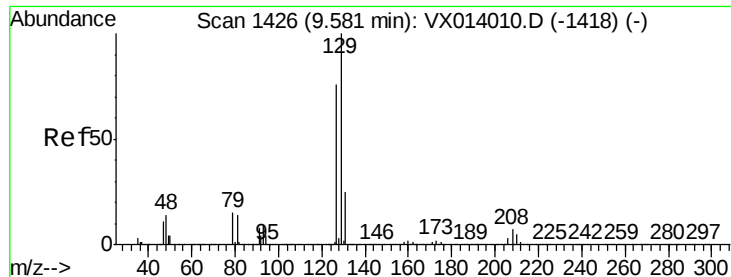
Tgt Ion: 63 Resp: 856

Ion Ratio Lower Upper

63 100

106 30.0 23.0 34.6





#60

Dibromochloromethane

Concen: 43.114 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

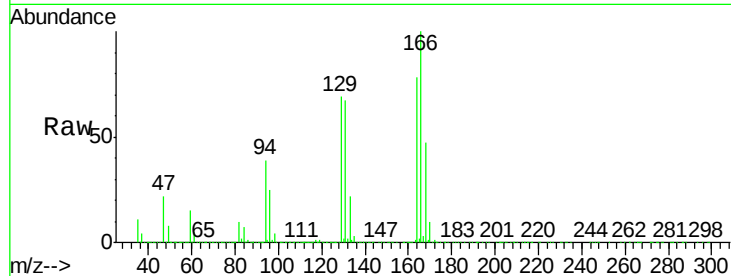
995-MW-11-(15)DL

Tgt Ion:129 Resp: 250254

Ion Ratio Lower Upper

129 100

127 0.1 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

200000

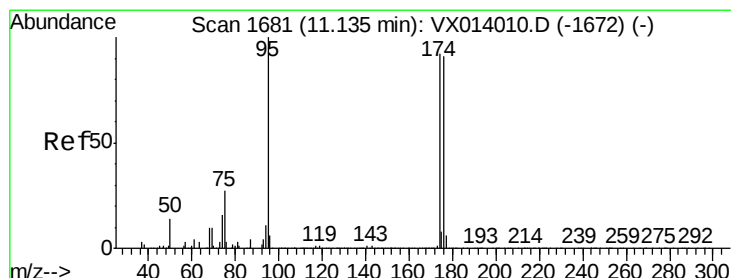
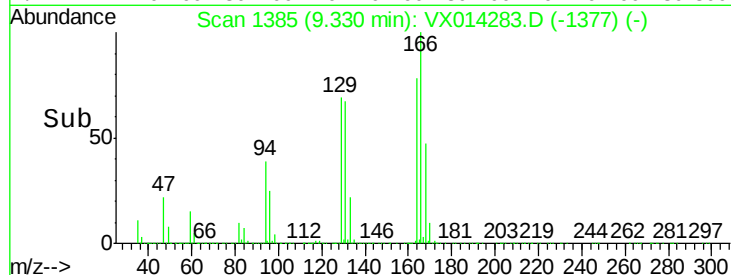
150000

100000

50000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 46.634 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

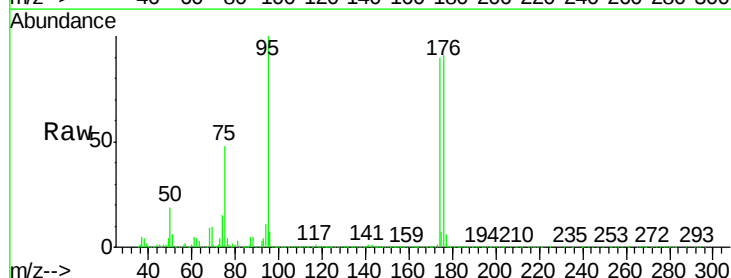
Tgt Ion: 95 Resp: 329402

Ion Ratio Lower Upper

95 100

174 87.5 0.0 175.8

176 84.5 0.0 173.0



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

11.13

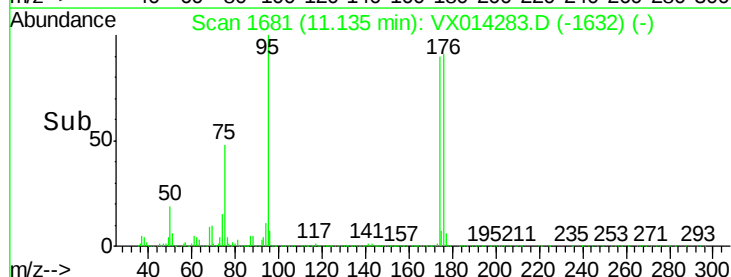
300000

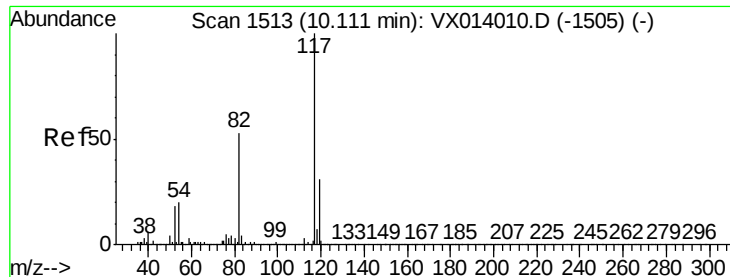
200000

100000

0

Time--> 11.10 11.20

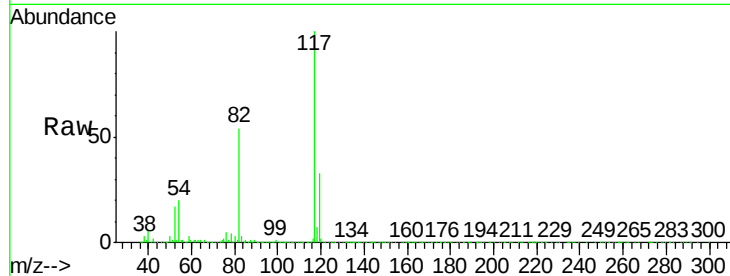




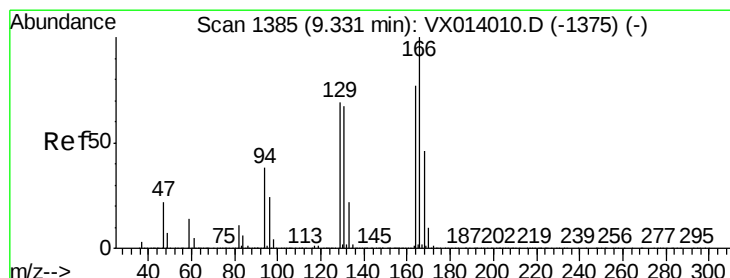
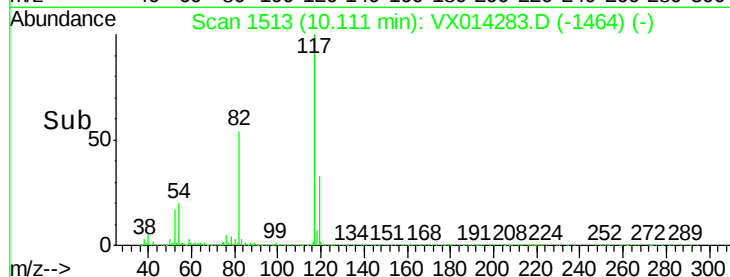
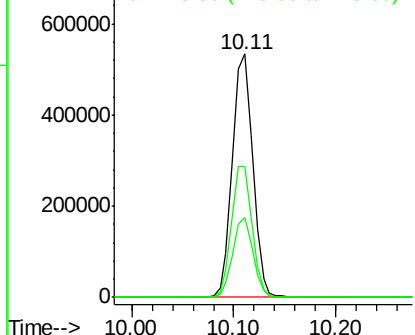
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

Instrument :
MSVOA_X
ClientSampleId :
995-MW-11-(15)DL

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.0	42.2	63.4
119	33.0	25.1	37.7



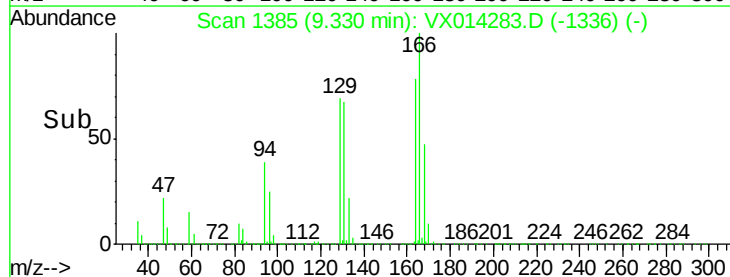
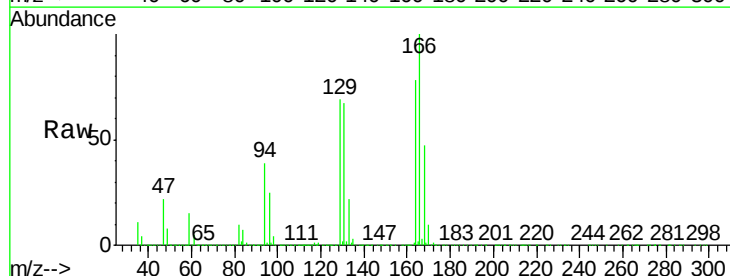
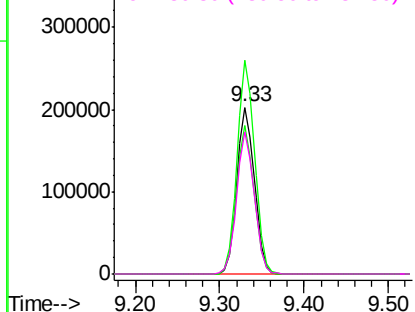
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

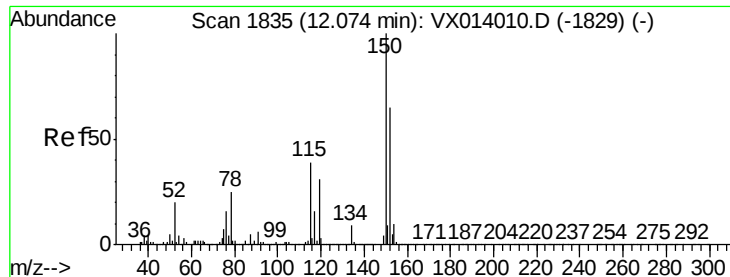


#64
Tetrachloroethene
Concen: 43.367 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX014283.D
Acq: 26 Dec 2019 20:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	104.0	156.0
129	88.9	72.2	108.4
131	85.6	69.6	104.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)DL

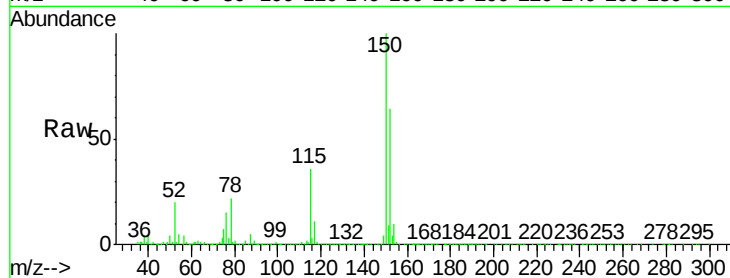
Tgt Ion: 152 Resp: 320708

Ion Ratio Lower Upper

152 100

115 56.3 38.3 114.9

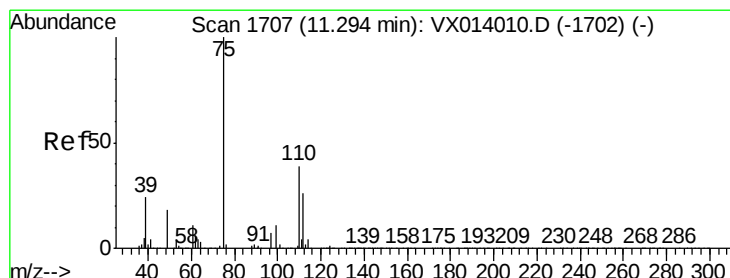
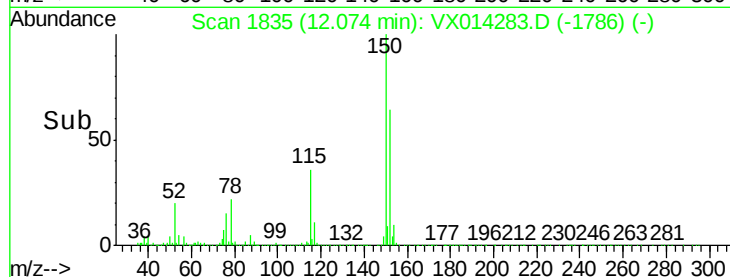
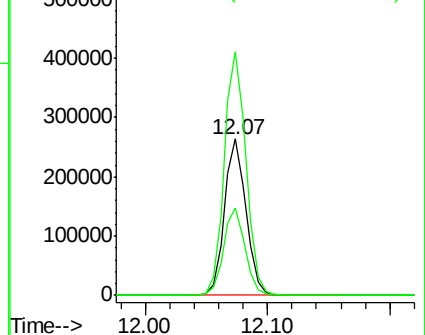
150 157.4 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.925 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014283.D

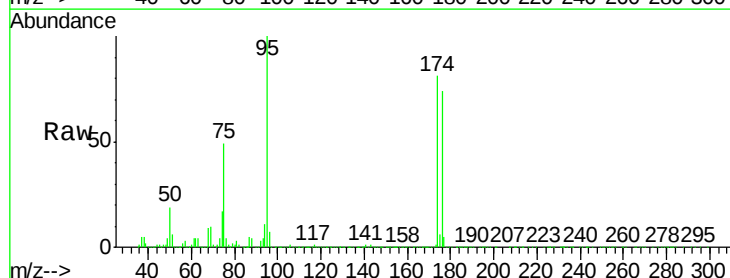
Acq: 26 Dec 2019 20:37

Tgt Ion: 75 Resp: 159615

Ion Ratio Lower Upper

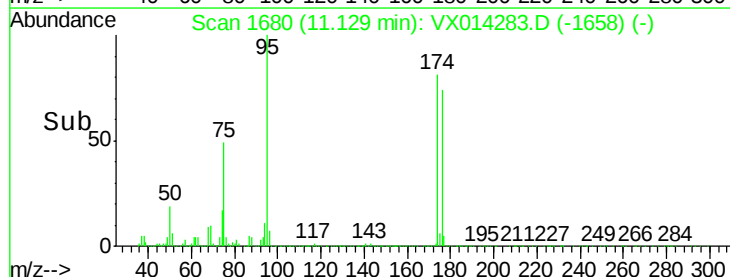
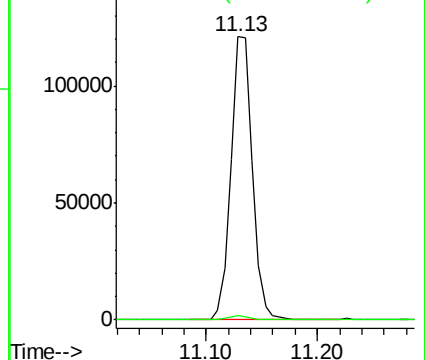
75 100

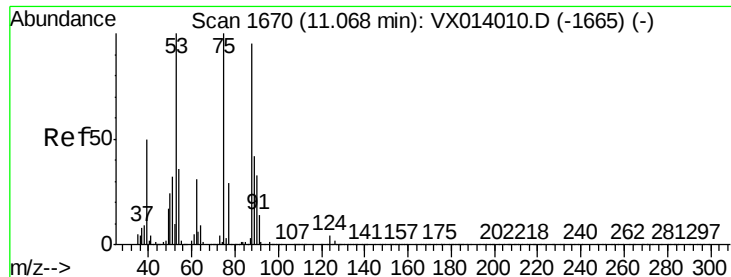
77 1.6 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.706 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014283.D

Acq: 26 Dec 2019 20:37

Instrument :

MSVOA_X

ClientSampleId :

995-MW-11-(15)DL

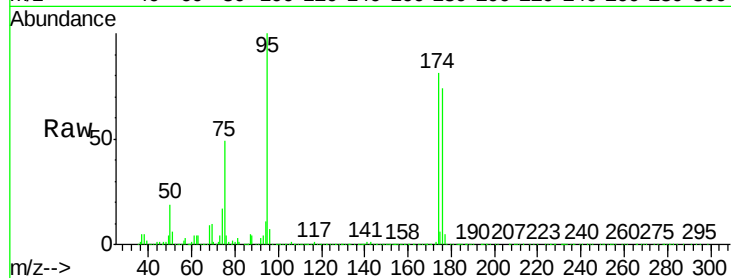
Tgt Ion: 75 Resp: 159615

Ion Ratio Lower Upper

75 100

53 0.6 76.7 115.1#

89 0.0 34.6 51.8#



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

