

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011798.D
 Acq On : 23 Aug 2019 15:17
 Operator : JC/SP
 Sample : K4491-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP-2

Quant Time: Aug 26 01:54:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	491219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	647134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	558765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	288686	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	211176	42.80	ug/l	0.00
Spiked Amount 50.000			Recovery =	85.60%		
35) Dibromofluoromethane	5.49	113	188791	45.12	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.24%		
50) Toluene-d8	8.71	98	718299	49.21	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.42%		
62) 4-Bromofluorobenzene	11.13	95	251461	43.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	87.18%		

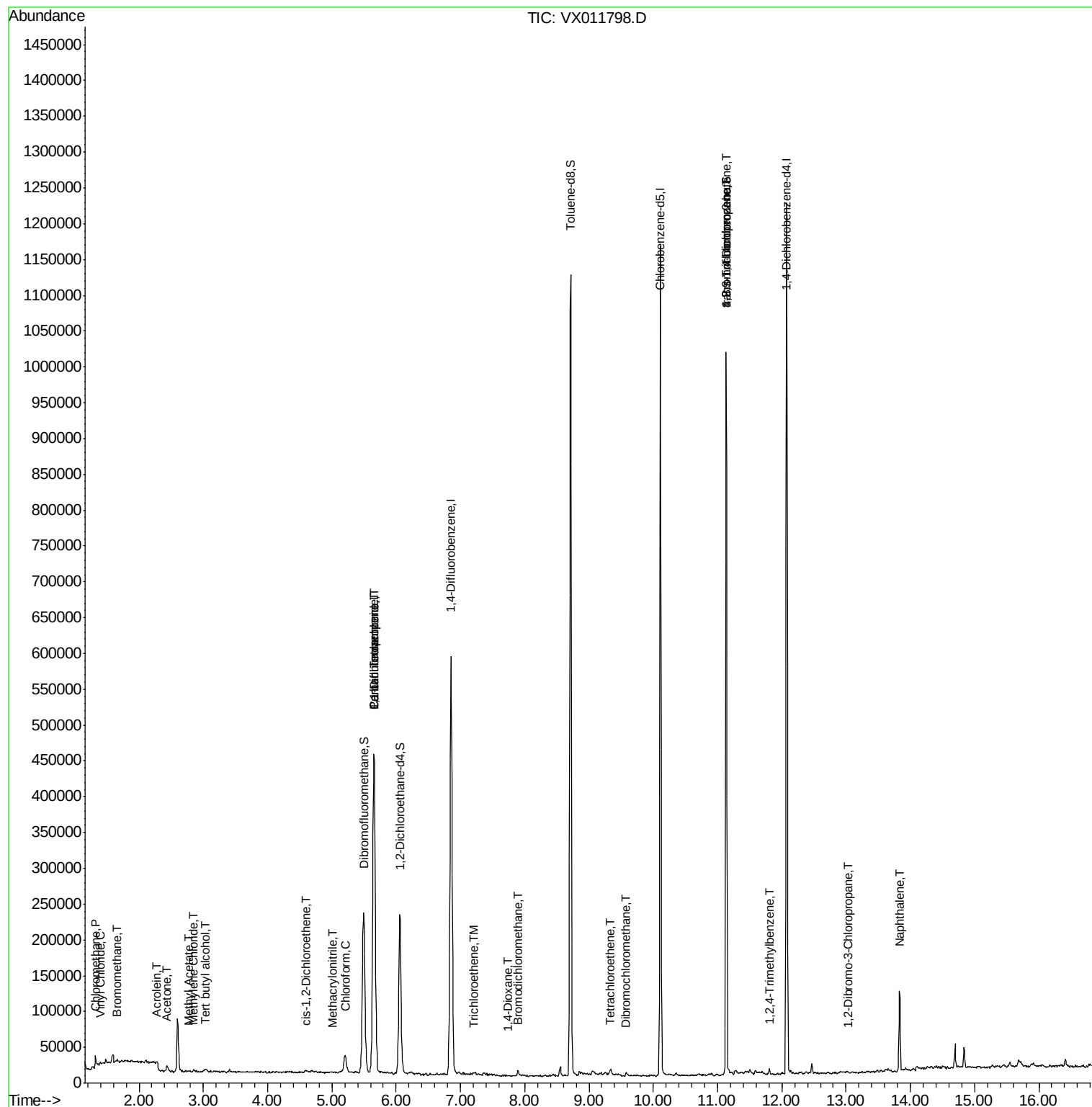
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	8790	2.186	ug/l	92
4) Vinyl Chloride	1.40	62	1388	0.345	ug/l #	70
5) Bromomethane	1.65	94	591	0.267	ug/l #	47
11) Tert butyl alcohol	3.04	59	6390	6.553	ug/l #	74
13) Acrolein	2.27	56	458	1.215	ug/l	93
16) Acetone	2.43	43	9467	4.410	ug/l	96
18) Methyl Acetate	2.77	43	2677	0.460	ug/l #	67
20) Methylene Chloride	2.85	84	1625	0.370	ug/l #	77
27) cis-1,2-Dichloroethene	4.60	96	1839	0.385	ug/l	84
30) Chloroform	5.20	83	28570	3.811	ug/l	98
36) 1,1-Dichloropropene	5.66	75	26886	5.298	ug/l #	51
38) Carbon Tetrachloride	5.66	117	40969	7.124	ug/l #	16
41) Methacrylonitrile	5.01	41	802	0.257	ug/l #	52
44) Trichloroethene	7.21	130	1336	0.276	ug/l	54
47) Bromodichloromethane	7.90	83	4939	0.943	ug/l #	82
49) 1,4-Dioxane	7.74	88	178	1.485	ug/l #	26
60) Dibromochloromethane	9.59	129	1439	0.314	ug/l	82
64) Tetrachloroethene	9.34	164	1944	0.436	ug/l #	74
76) 1,2,3-Trichloropropane	11.13	75	113251	22.357	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	113251	67.425	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	3843	0.262	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.04	75	462	0.345	ug/l #	1
95) Naphthalene	13.83	128	73843	4.092	ug/l	99

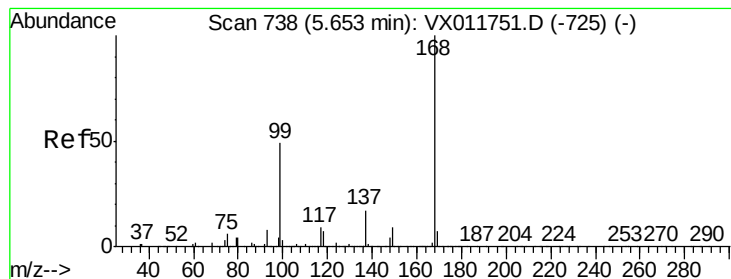
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

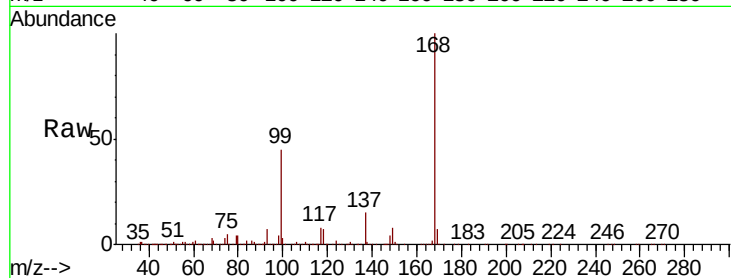
WP-2

Tgt Ion:168 Resp: 491219

Ion Ratio Lower Upper

168 100

99 44.9 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

200000

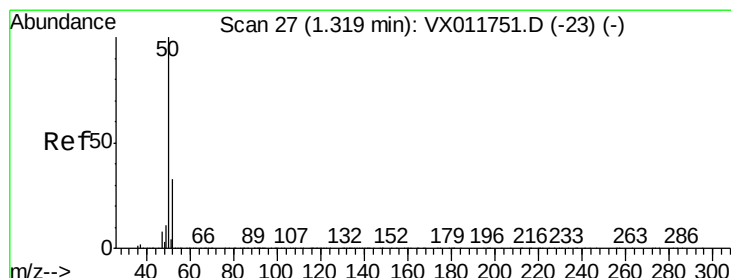
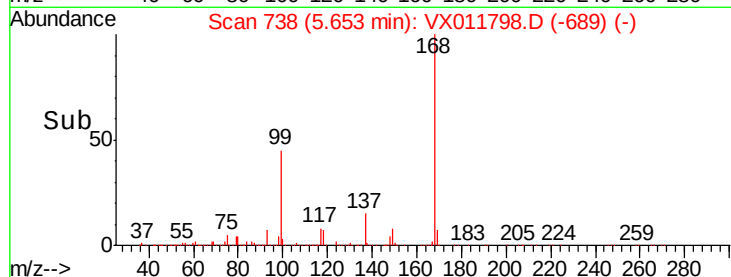
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 2.186 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011798.D

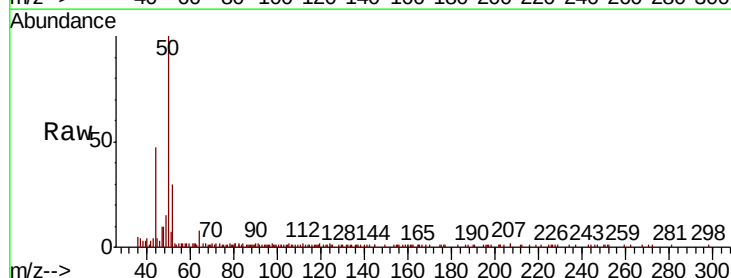
Acq: 23 Aug 2019 15:17

Tgt Ion: 50 Resp: 8790

Ion Ratio Lower Upper

50 100

52 28.7 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

10000

8000

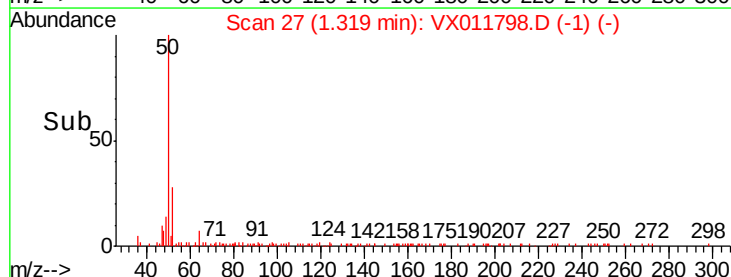
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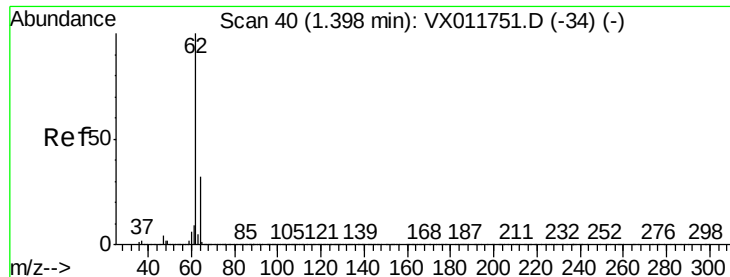
4000

2000

0

Time-->





#4

Vinyl Chloride

Concen: 0.345 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

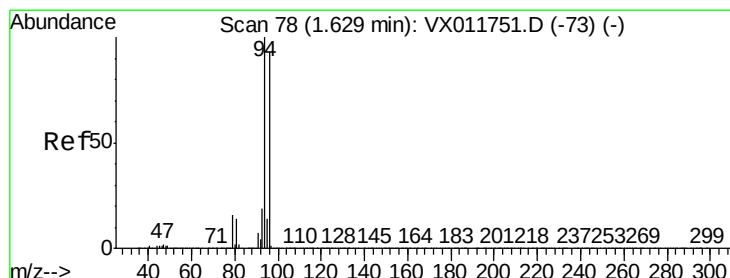
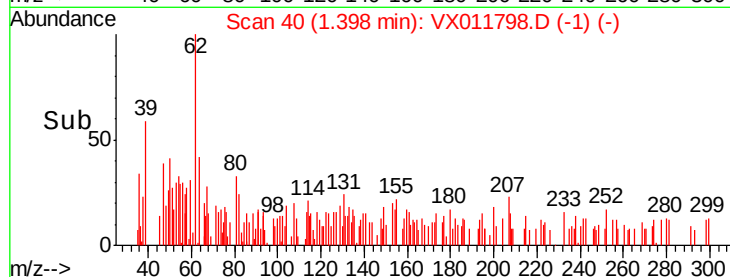
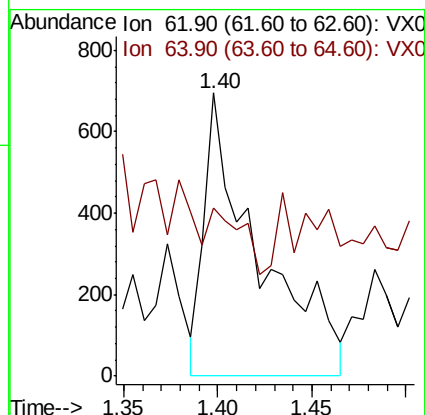
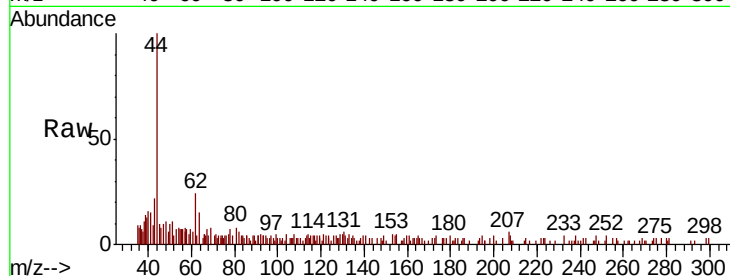
WP-2

Tgt Ion: 62 Resp: 1388

Ion Ratio Lower Upper

62 100

64 15.4 25.5 38.3#



#5

Bromomethane

Concen: 0.267 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011798.D

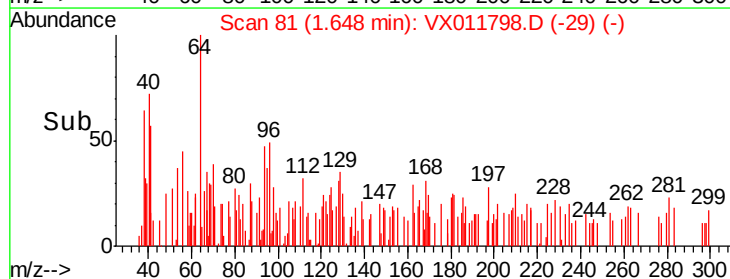
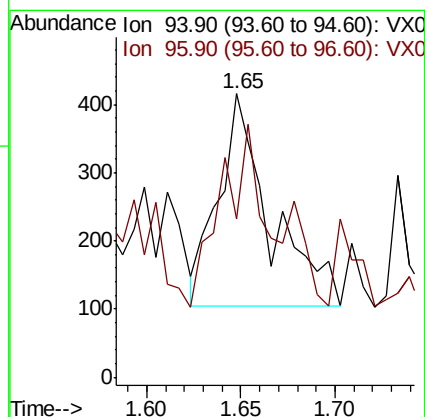
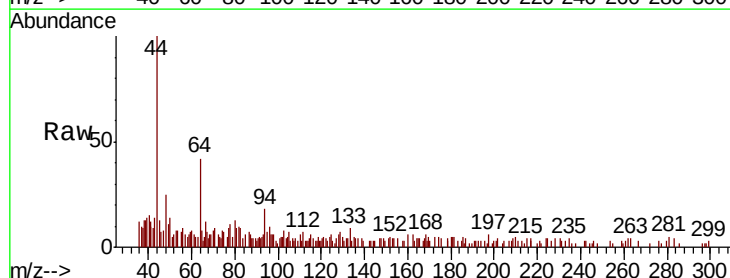
Acq: 23 Aug 2019 15:17

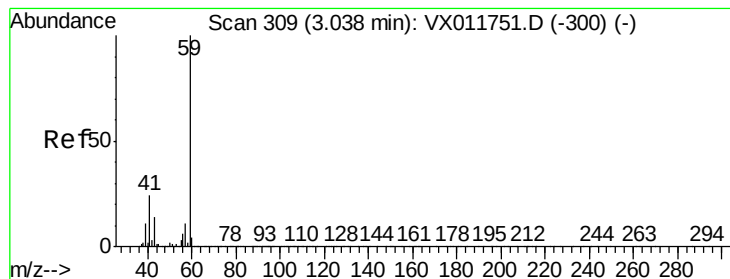
Tgt Ion: 94 Resp: 591

Ion Ratio Lower Upper

94 100

96 42.1 74.1 111.1#



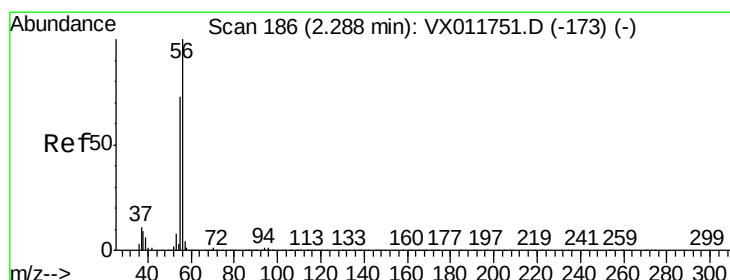
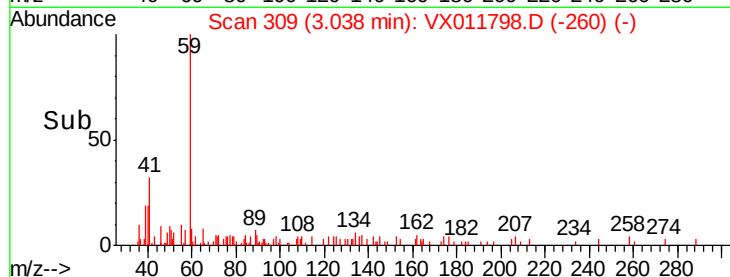
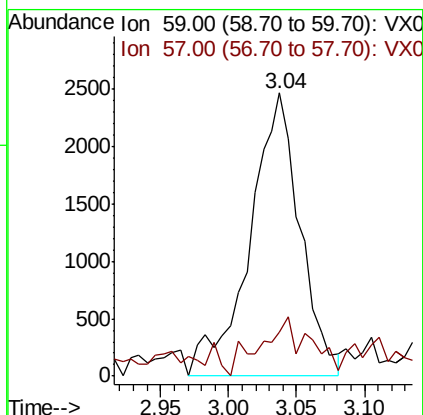
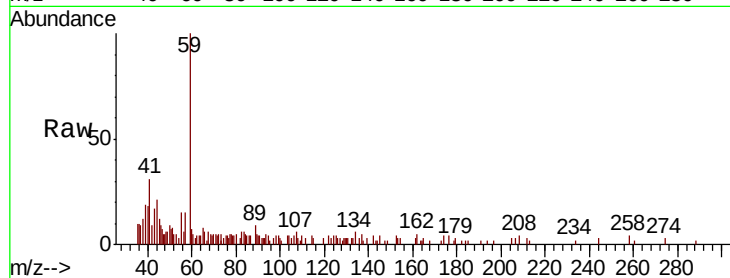


#11

Tert butyl alcohol
Concen: 6.553 ug/l
RT: 3.04 min Scan# 309
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Instrument :
MSVOA_X
ClientSampled :
WP-2

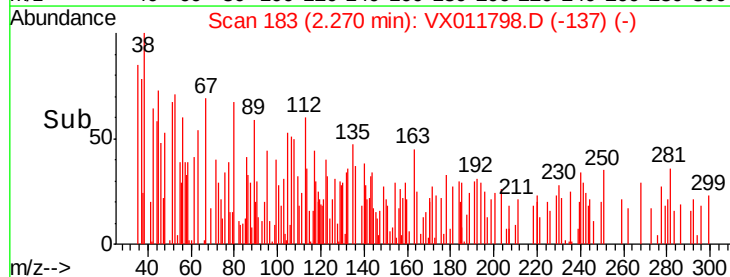
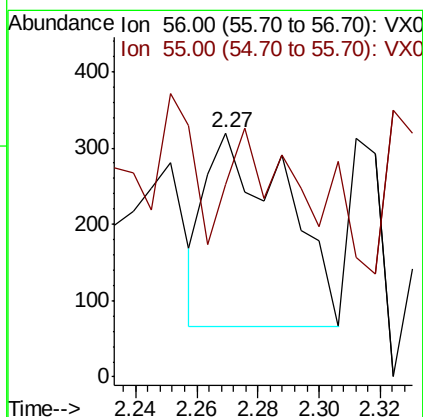
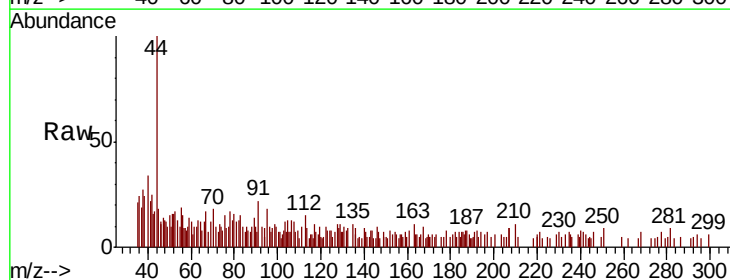
Tgt Ion: 59 Resp: 6390
Ion Ratio Lower Upper
59 100
57 20.3 8.4 12.6#

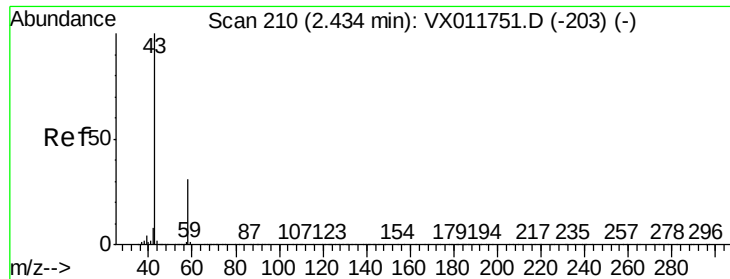


#13

Acrolein
Concen: 1.215 ug/l
RT: 2.27 min Scan# 183
Delta R.T. -0.02 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion: 56 Resp: 458
Ion Ratio Lower Upper
56 100
55 63.1 54.8 82.2





#16

Acetone

Concen: 4.410 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

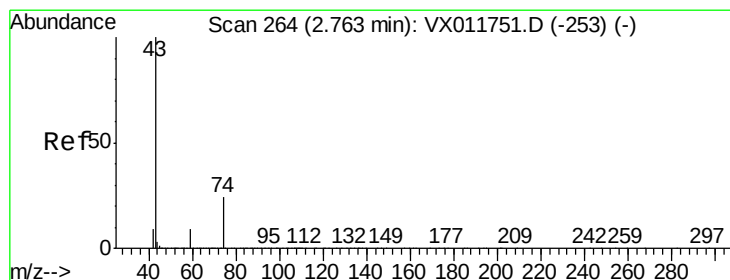
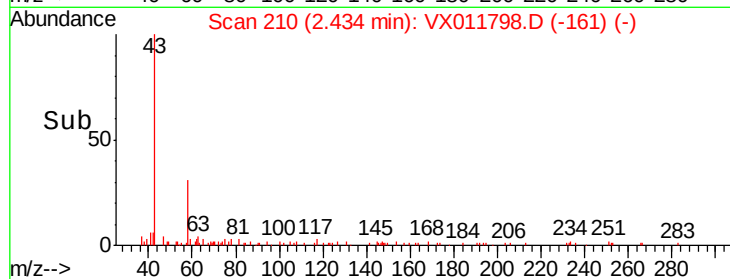
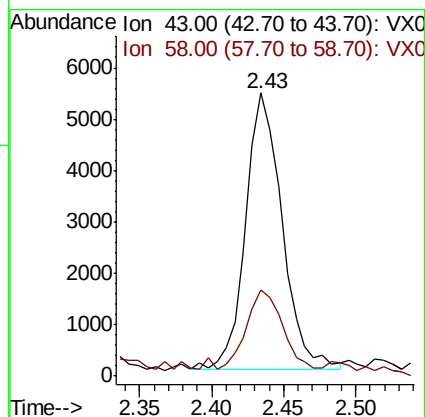
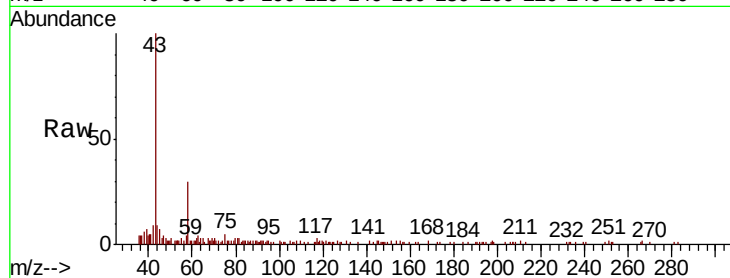
WP-2

Tgt Ion: 43 Resp: 9467

Ion Ratio Lower Upper

43 100

58 28.1 24.4 36.6



#18

Methyl Acetate

Concen: 0.460 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011798.D

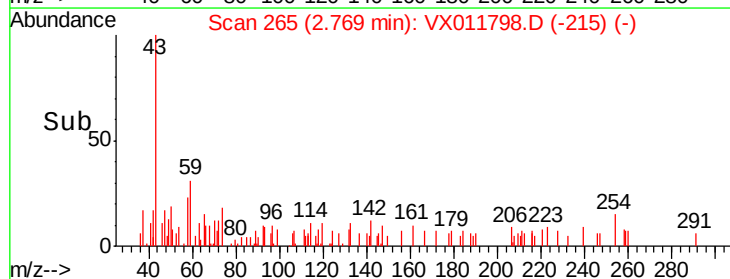
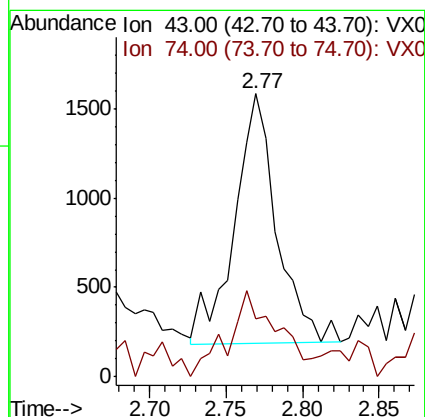
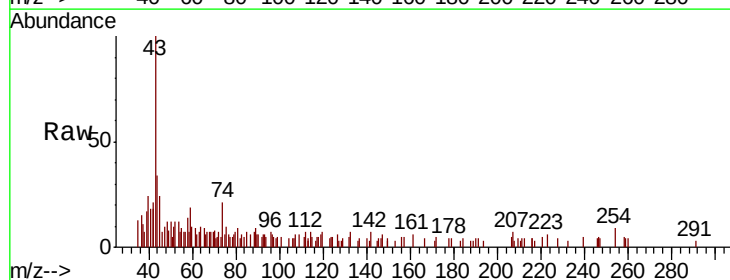
Acq: 23 Aug 2019 15:17

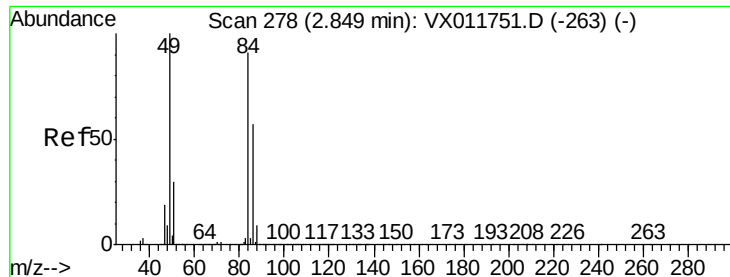
Tgt Ion: 43 Resp: 2677

Ion Ratio Lower Upper

43 100

74 41.0 19.5 29.3#

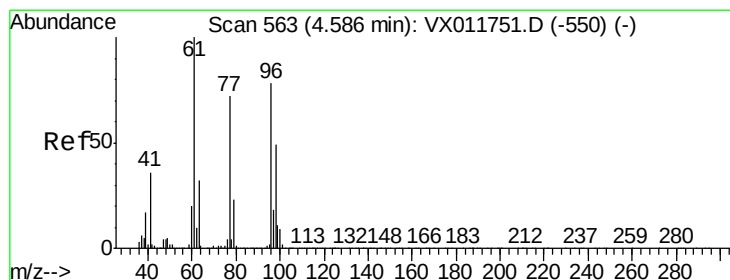
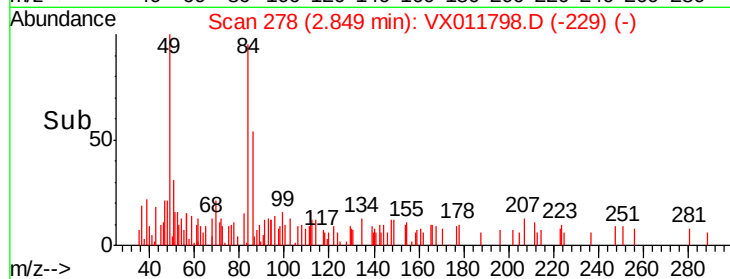
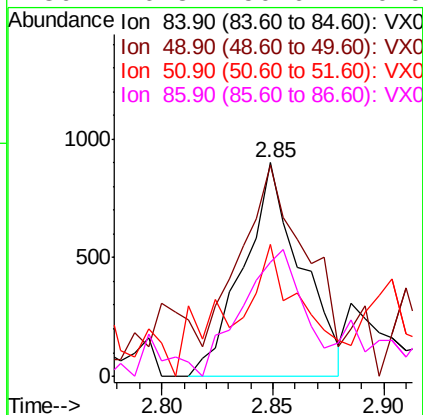
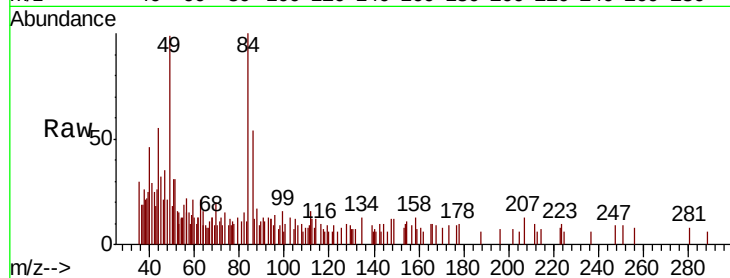




#20
Methylene Chloride
Concen: 0.370 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

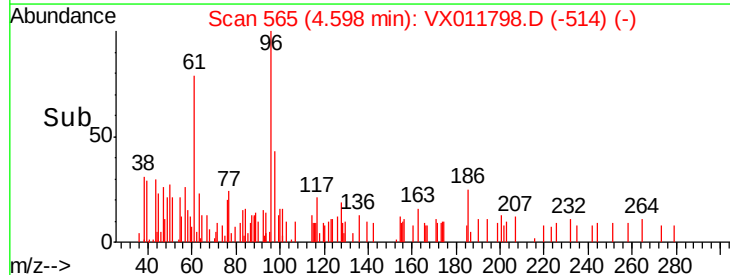
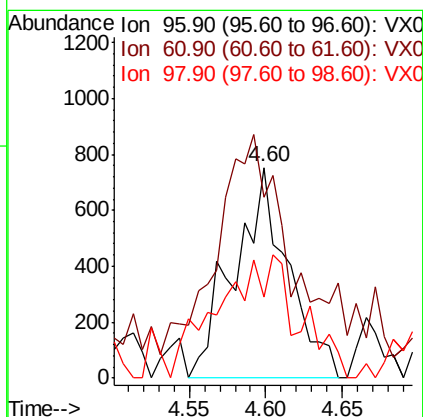
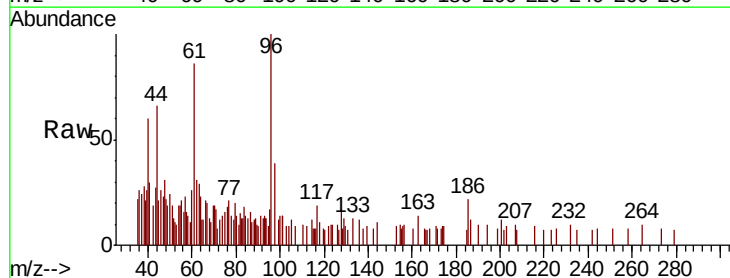
Instrument :
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ClientSampled :
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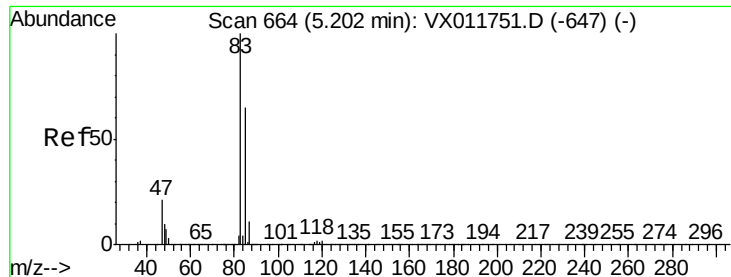
Tgt Ion:	84	Resp:	1625
Ion	Ratio	Lower	Upper
84	100		
49	84.8	88.3	132.5#
51	45.1	26.2	39.2#
86	46.8	50.6	76.0#



#27
cis-1,2-Dichloroethene
Concen: 0.385 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion:	96	Resp:	1839
Ion	Ratio	Lower	Upper
96	100		
61	158.8	0.0	275.8
98	74.9	0.0	128.2

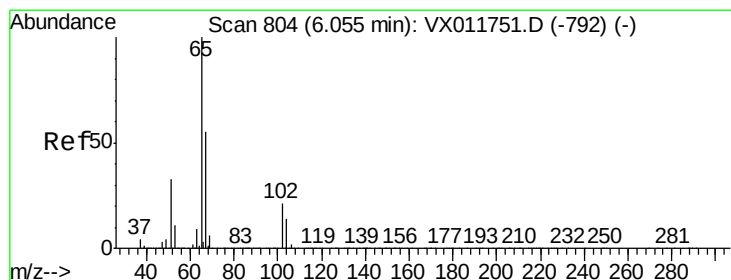
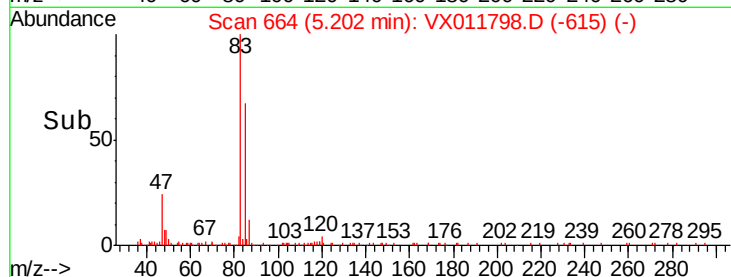
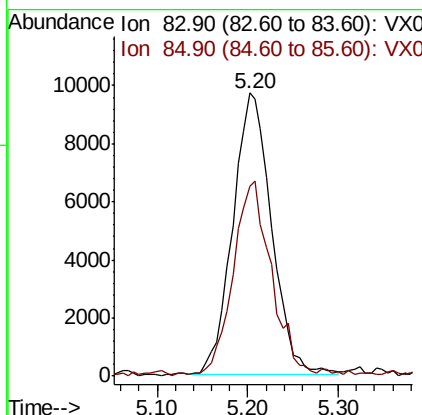
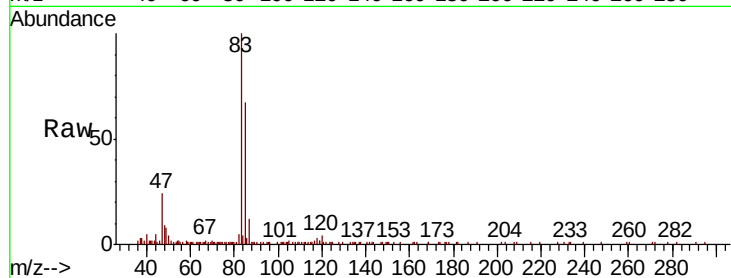




#30
Chloroform
Concen: 3.811 ug/l
RT: 5.20 min Scan# 664
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

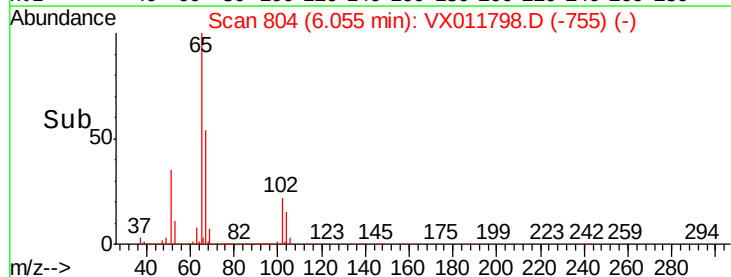
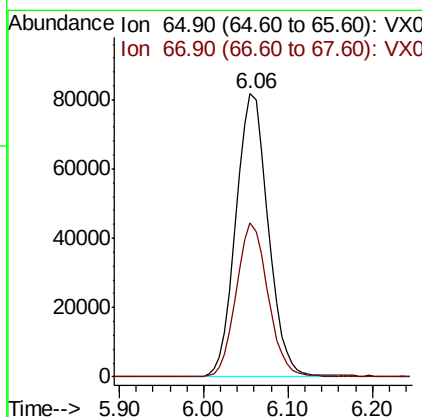
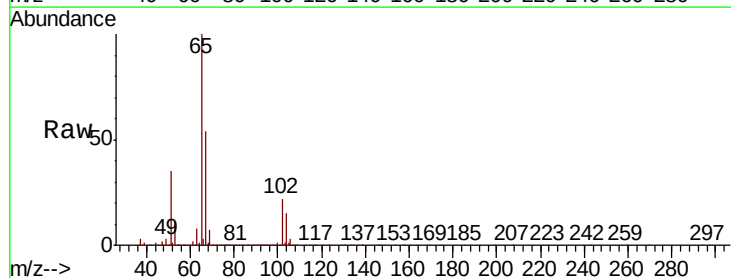
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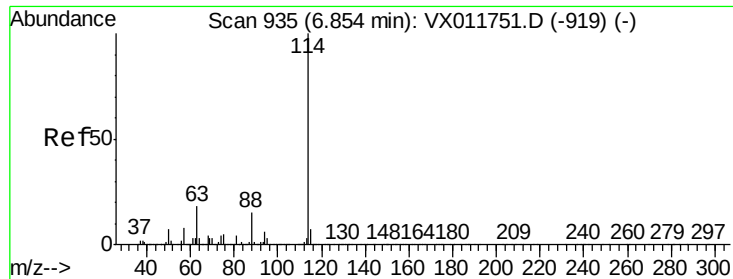
Tgt Ion: 83 Resp: 28570
Ion Ratio Lower Upper
83 100
85 66.7 51.8 77.8



#33
1,2-Dichloroethane-d4
Concen: 42.795 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion: 65 Resp: 211176
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.8

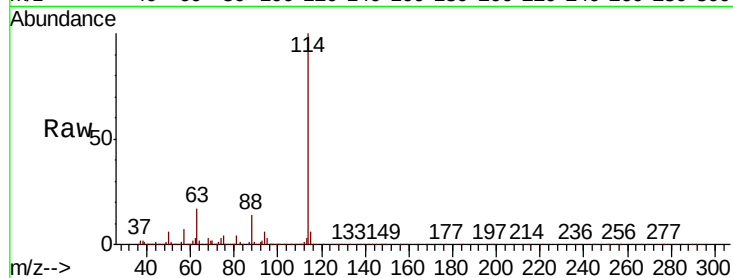




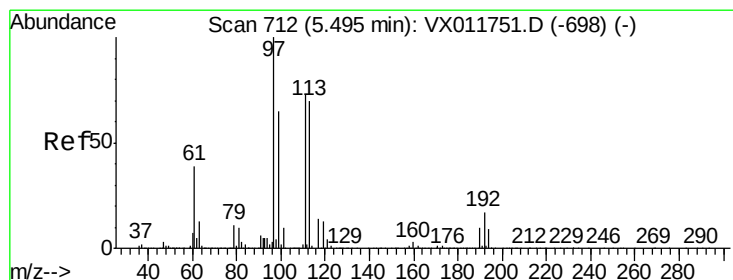
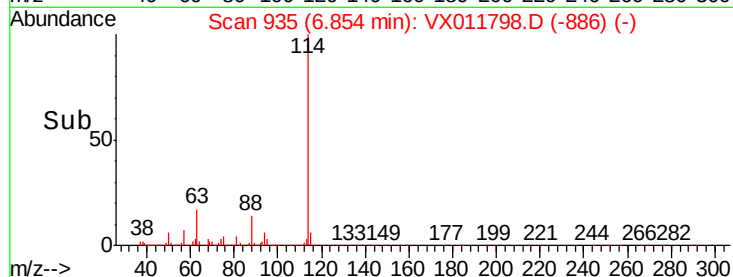
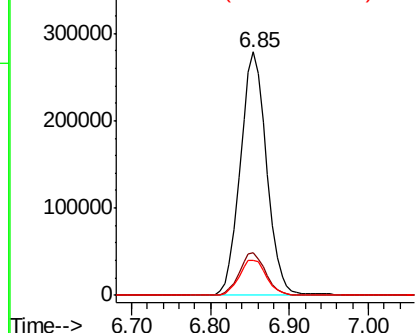
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Instrument :
MSVOA_X
ClientSampleId :
WP-2

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	36.8
88	14.4	0.0	30.2

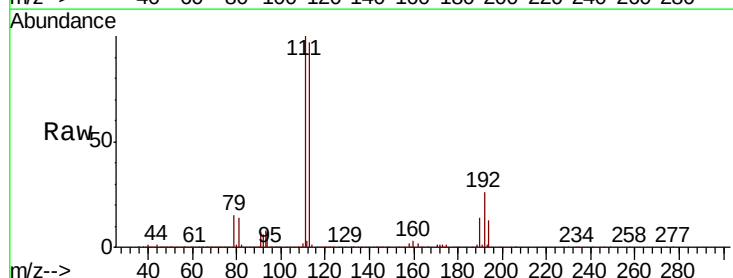


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

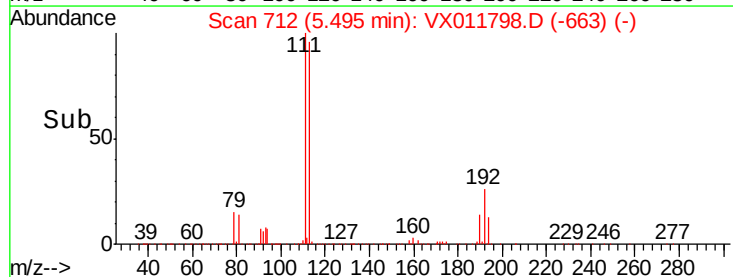
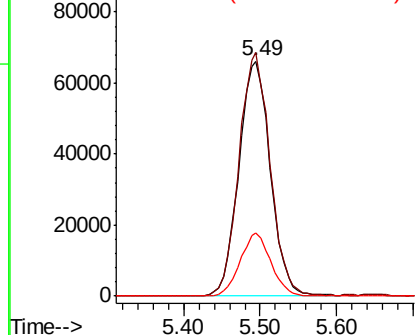


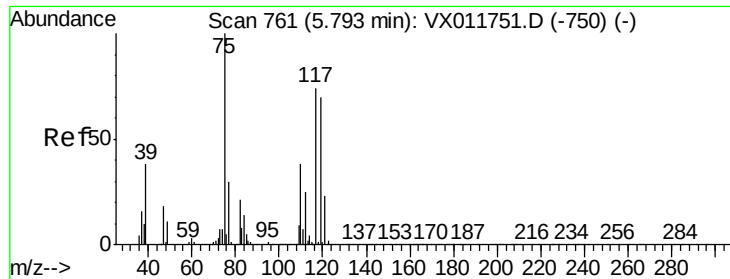
#35
Dibromofluoromethane
Concen: 45.115 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.0	121.4
192	26.2	19.9	29.9



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

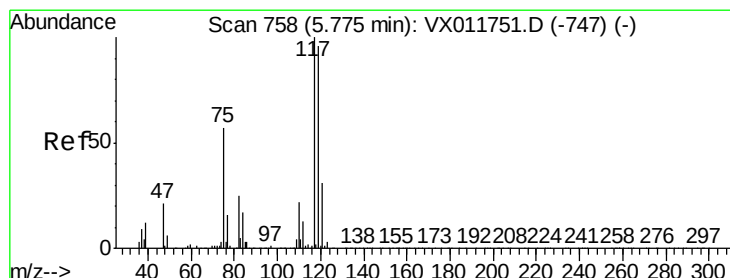
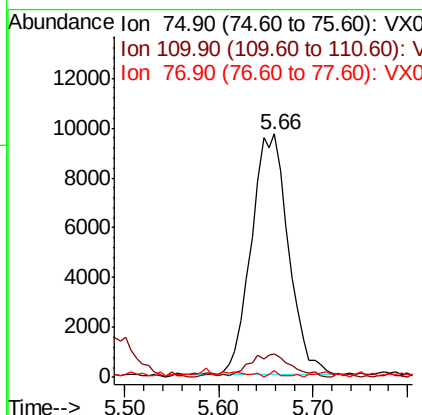
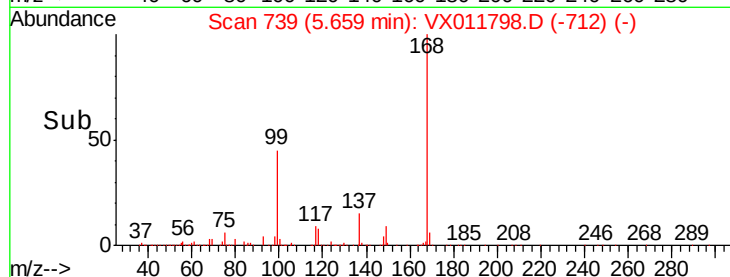
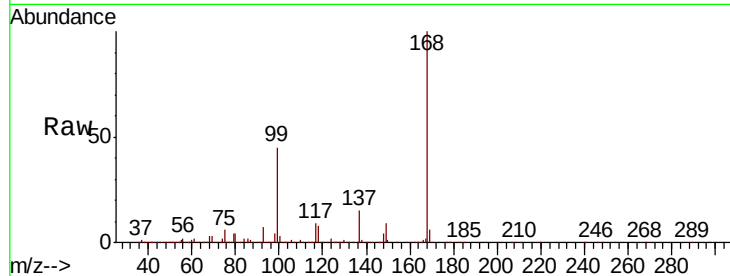




#36
 1,1-Dichloropropene
 Concen: 5.298 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011798.D
 Acq: 23 Aug 2019 15:17

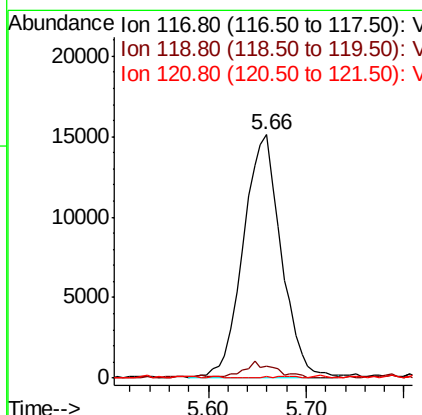
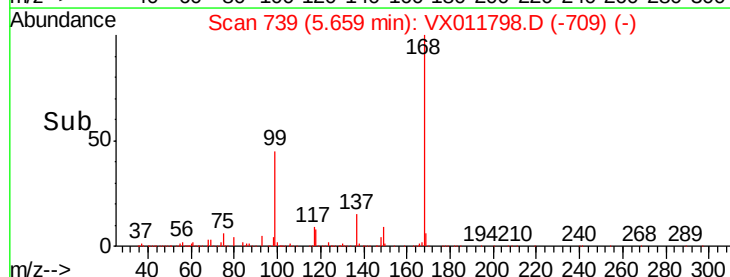
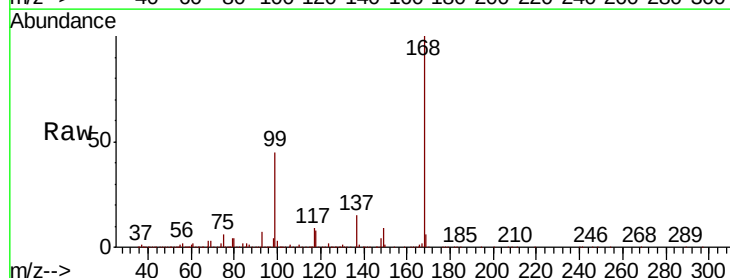
Instrument :
 MSVOA_X
 ClientSampleId :
 WP-2

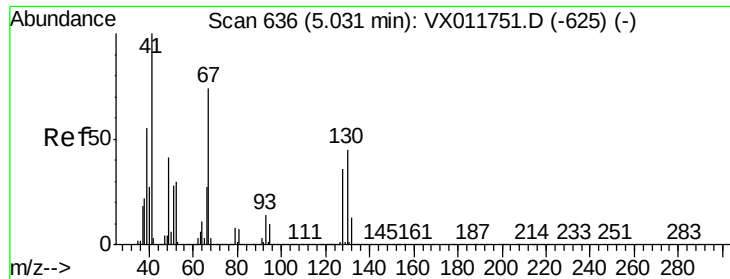
Tgt Ion: 75 Resp: 26886
 Ion Ratio Lower Upper
 75 100
 110 11.0 19.0 57.0#
 77 1.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 7.124 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011798.D
 Acq: 23 Aug 2019 15:17

Tgt Ion: 117 Resp: 40969
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.6 114.8#
 121 0.9 25.2 37.8#





#41

Methacrylonitrile

Concen: 0.257 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.02 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

WP-2

Tgt Ion: 41 Resp: 802

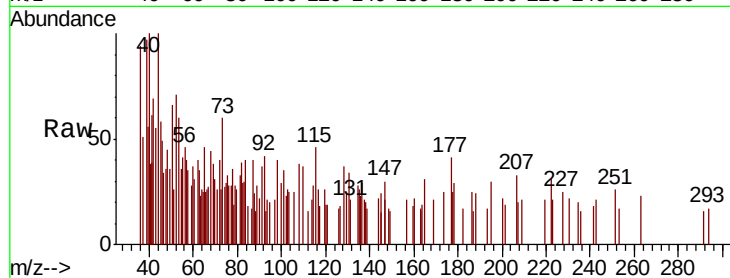
Ion Ratio Lower Upper

41 100

39 51.0 44.3 66.5

67 0.0 60.3 90.5#

52 41.9 24.0 36.0#

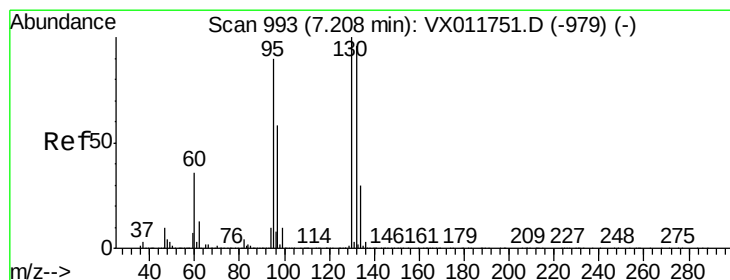
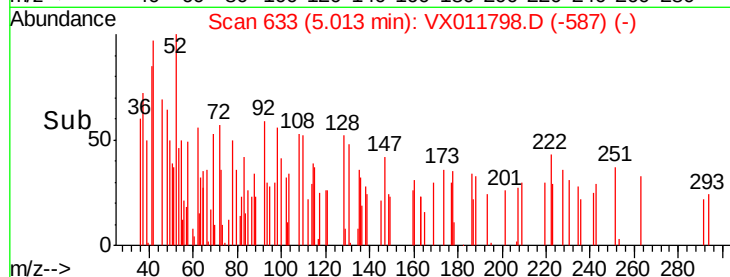
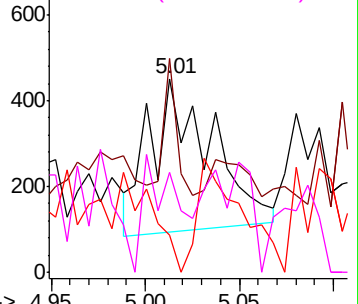


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 0.276 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011798.D

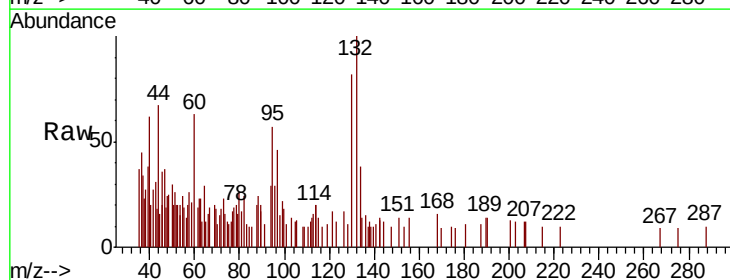
Acq: 23 Aug 2019 15:17

Tgt Ion: 130 Resp: 1336

Ion Ratio Lower Upper

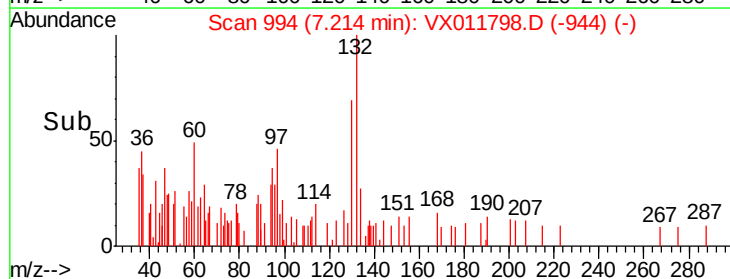
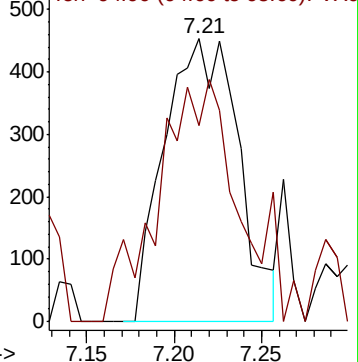
130 100

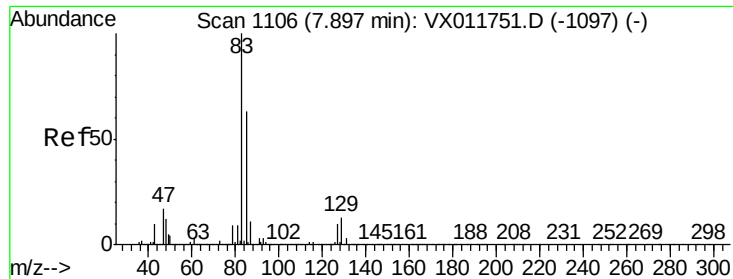
95 46.4 0.0 179.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

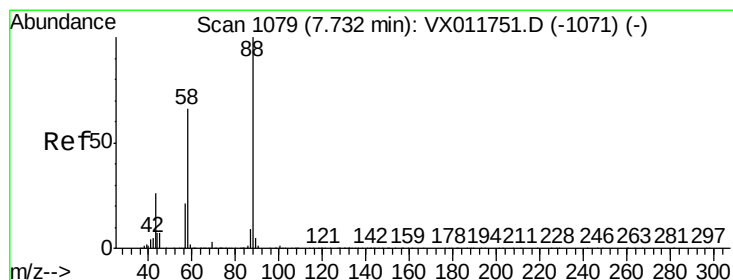
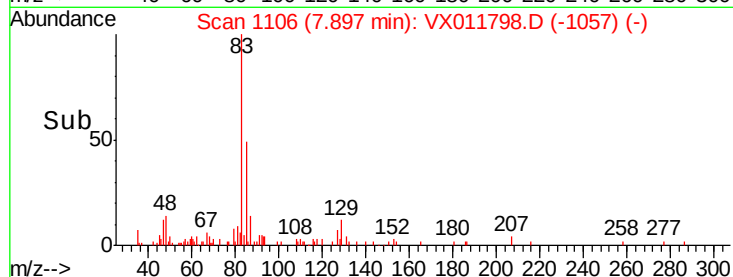
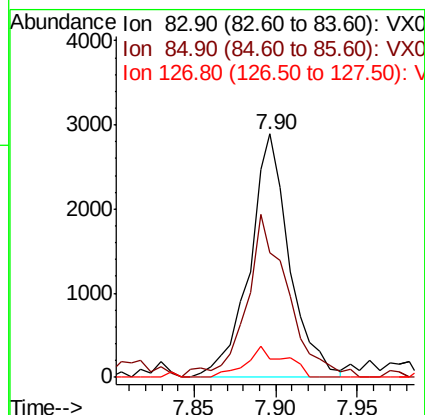
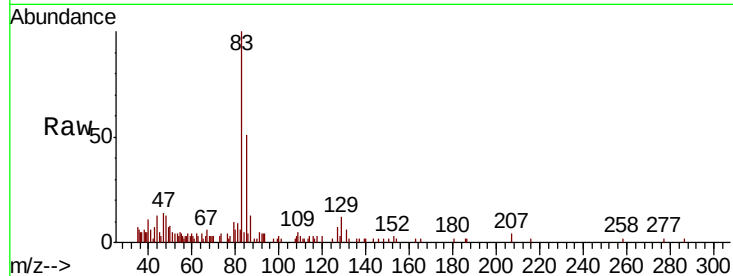




#47
Bromodichloromethane
Concen: 0.943 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

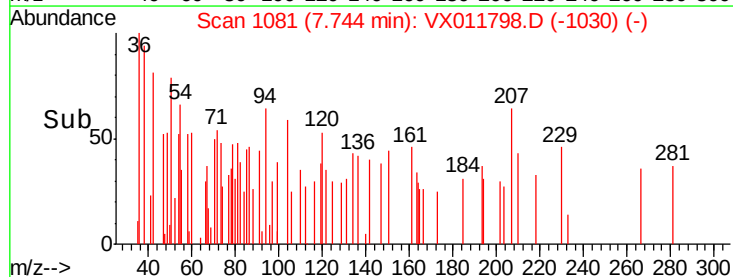
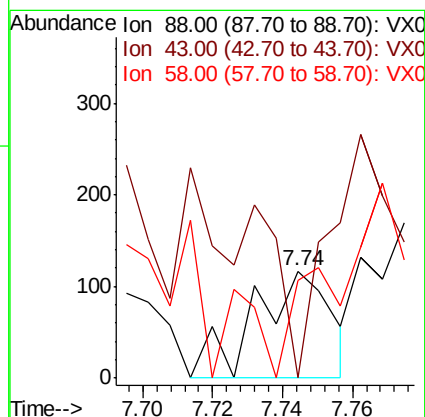
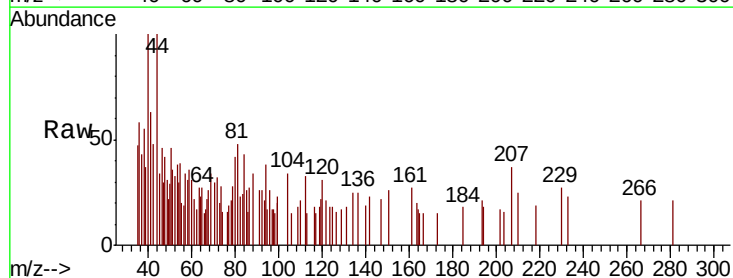
Instrument :
MSVOA_X
ClientSampled :
WP-2

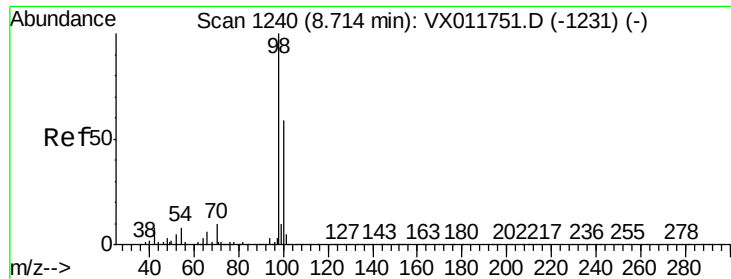
Tgt Ion: 83 Resp: 4939
Ion Ratio Lower Upper
83 100
85 48.5 50.6 76.0#
127 7.3 8.4 12.6#



#49
1,4-Dioxane
Concen: 1.485 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion: 88 Resp: 178
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 0.0 51.4 77.2#





#50

Toluene-d8

Concen: 49.212 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

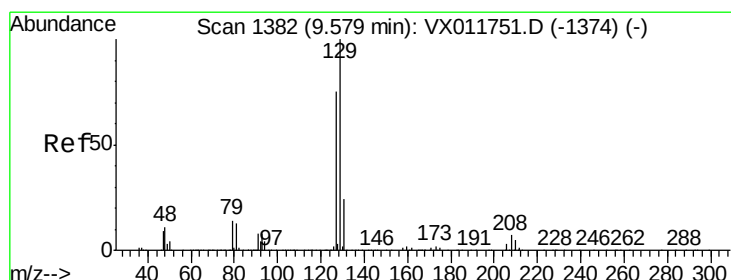
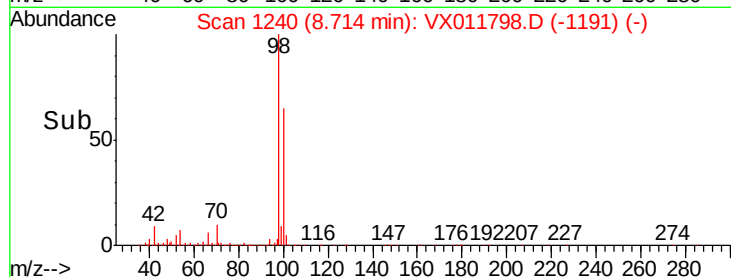
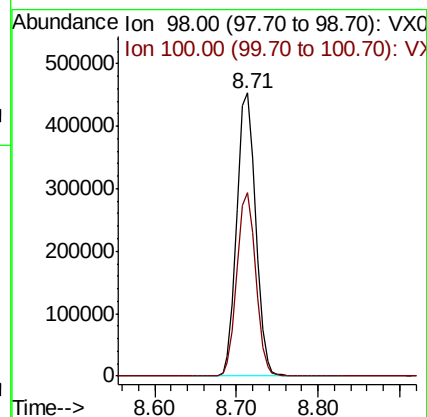
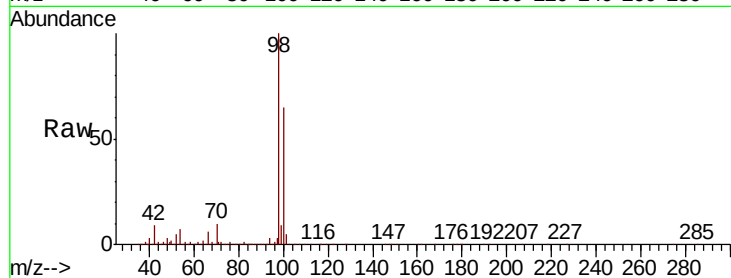
WP-2

Tgt Ion: 98 Resp: 718299

Ion Ratio Lower Upper

98 100

100 64.6 52.1 78.1



#60

Dibromochloromethane

Concen: 0.314 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX011798.D

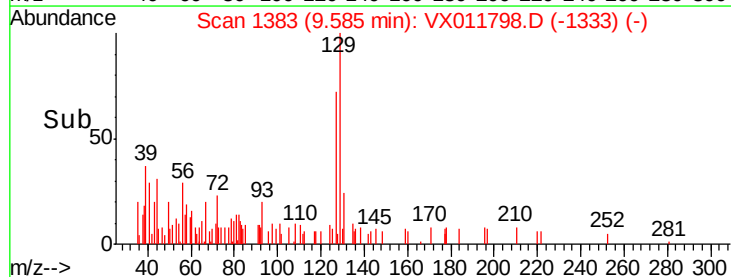
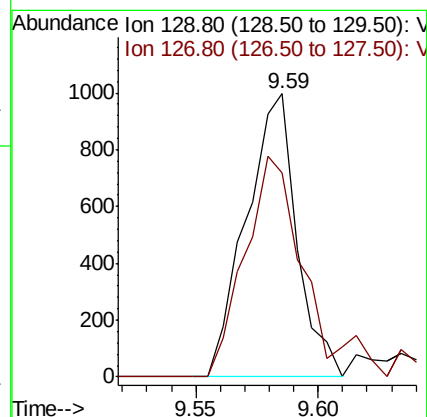
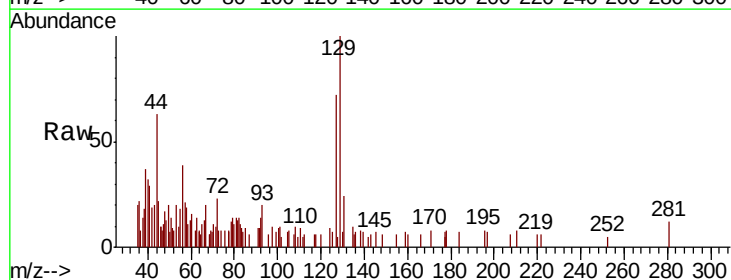
Acq: 23 Aug 2019 15:17

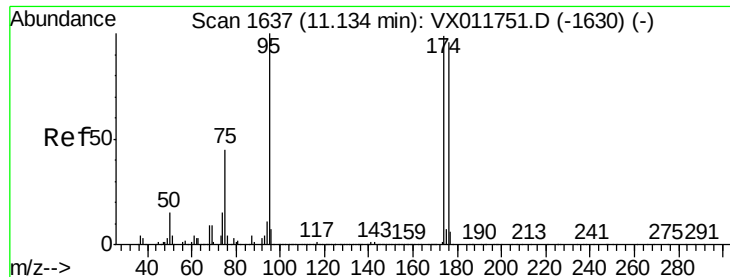
Tgt Ion: 129 Resp: 1439

Ion Ratio Lower Upper

129 100

127 92.1 38.3 114.8

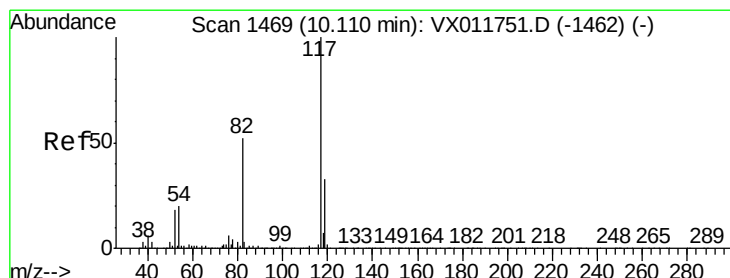
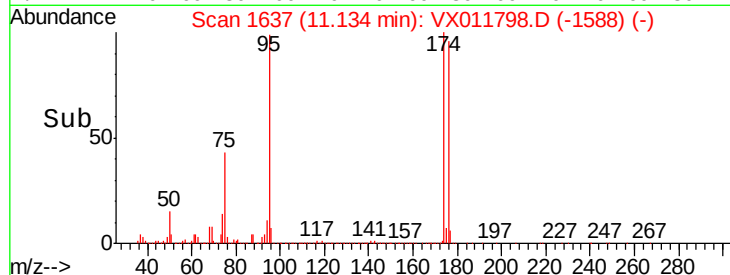
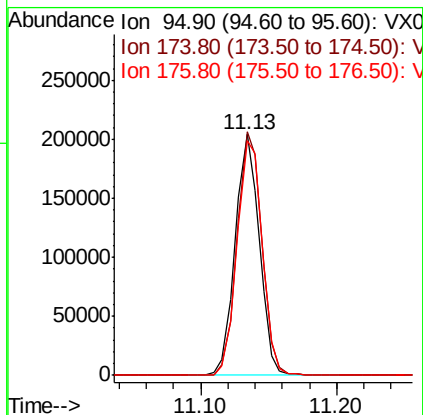
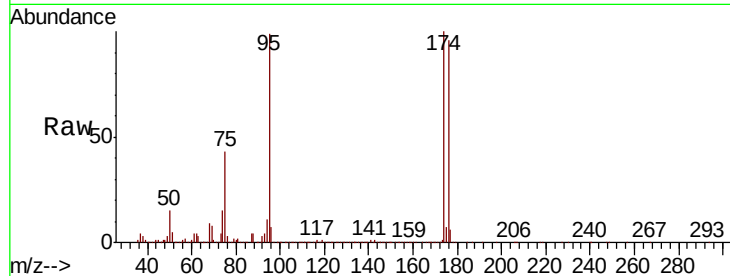




#62
4-Bromofluorobenzene
Concen: 43.587 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

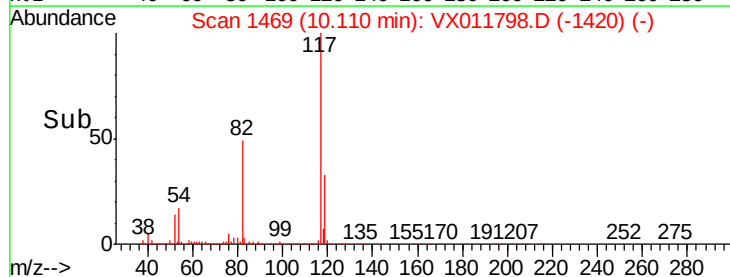
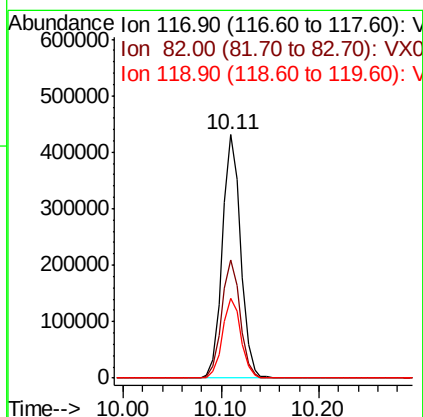
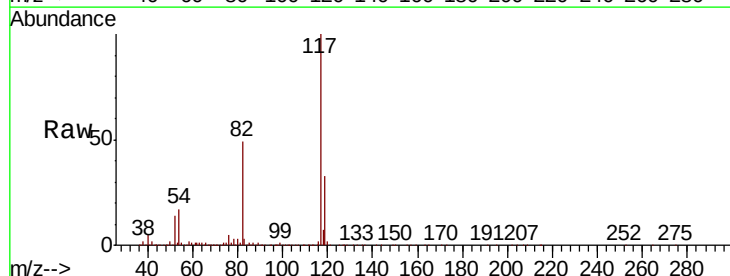
Instrument :
MSVOA_X
ClientSampled :
WP-2

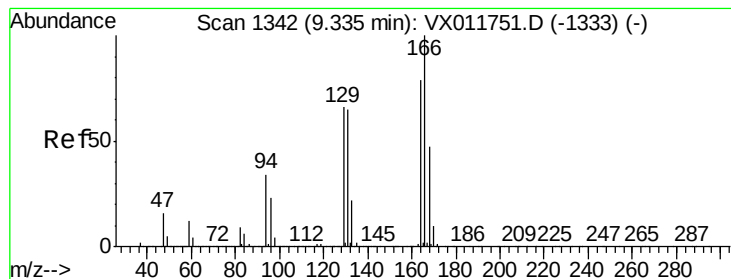
Tgt Ion: 95 Resp: 251461
Ion Ratio Lower Upper
95 100
174 104.0 0.0 197.4
176 101.8 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Tgt Ion: 117 Resp: 558765
Ion Ratio Lower Upper
117 100
82 48.8 41.7 62.5
119 32.8 26.2 39.2





#64

Tetrachloroethene

Concen: 0.436 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

WP-2

Tgt Ion:164 Resp: 1944

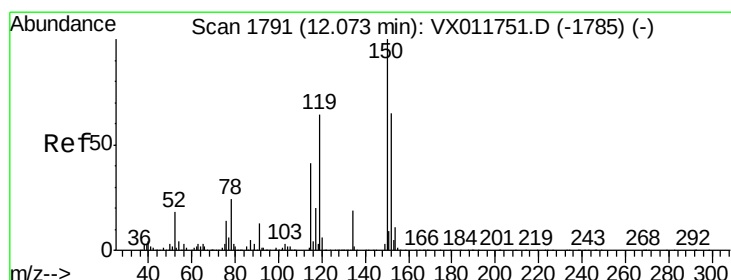
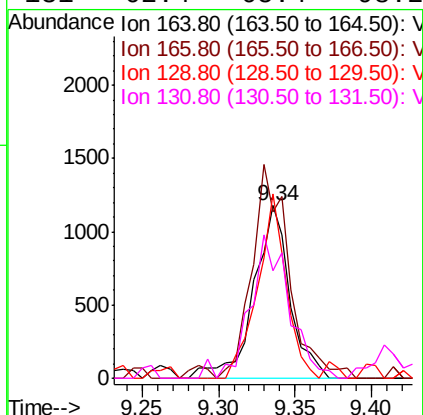
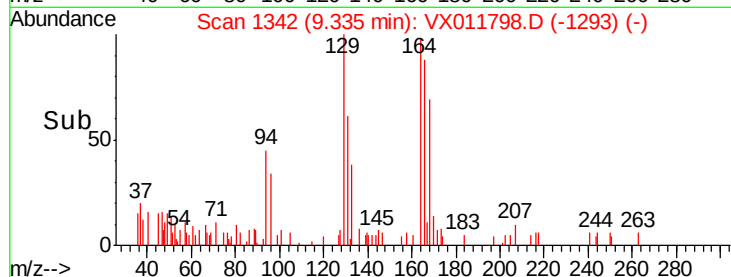
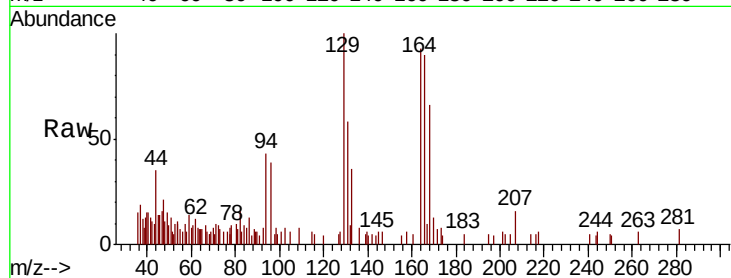
Ion Ratio Lower Upper

164 100

166 91.8 100.7 151.1#

129 107.0 66.8 100.2#

131 62.4 65.4 98.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

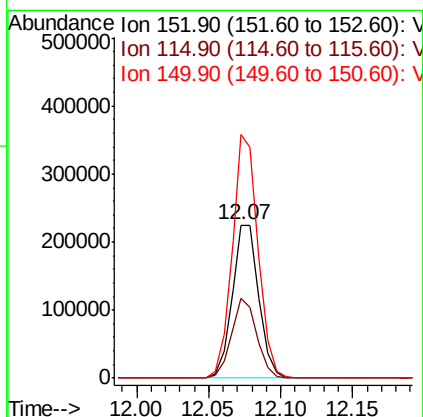
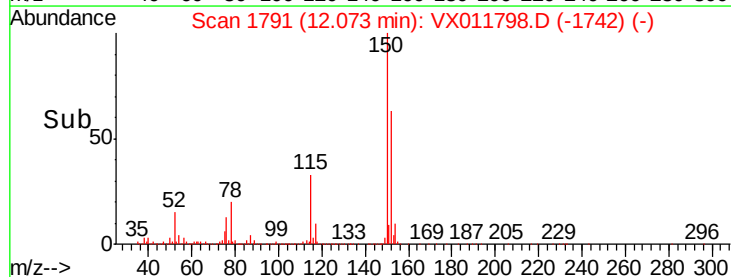
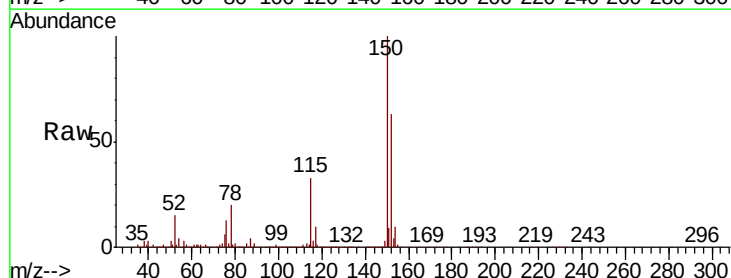
Tgt Ion:152 Resp: 288686

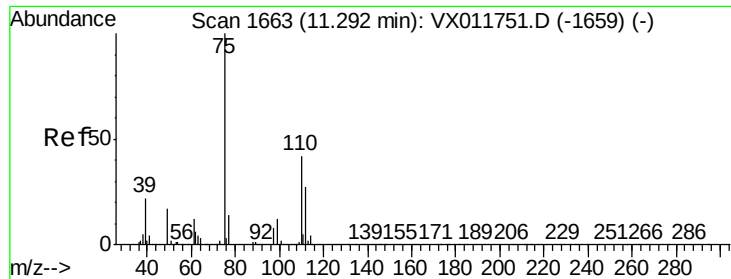
Ion Ratio Lower Upper

152 100

115 50.1 37.3 111.8

150 155.0 0.0 343.0





#76

1,2,3-Trichloropropane

Concen: 22.357 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

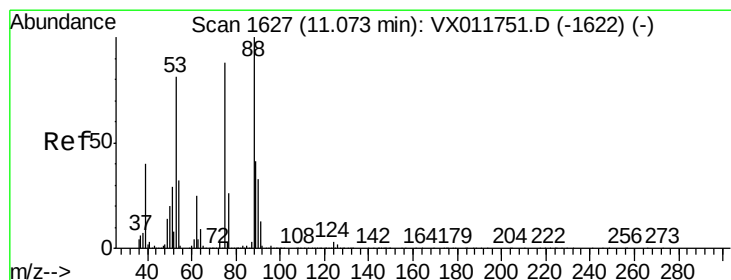
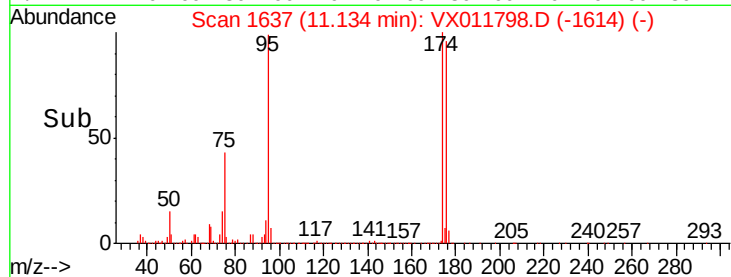
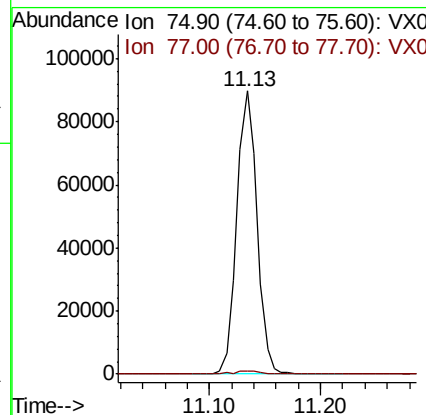
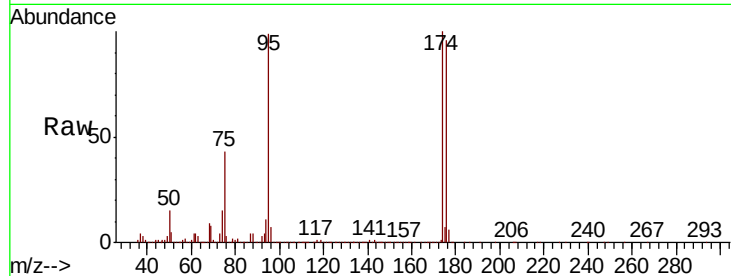
WP-2

Tgt Ion: 75 Resp: 113251

Ion Ratio Lower Upper

75 100

77 1.7 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.425 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011798.D

Acq: 23 Aug 2019 15:17

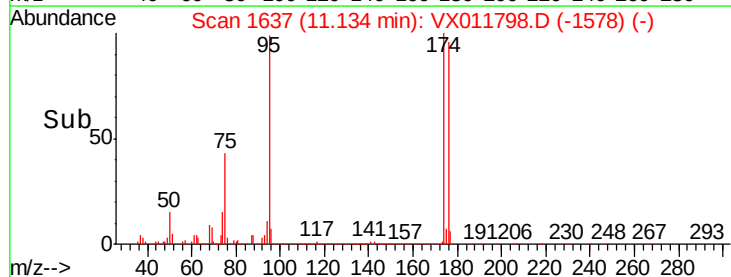
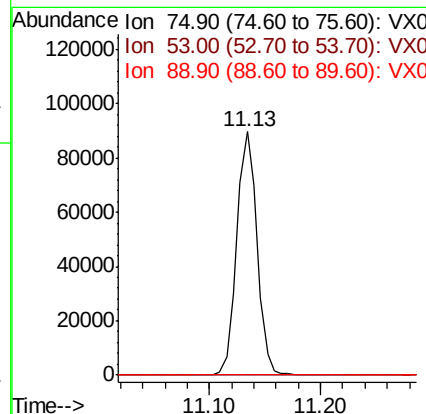
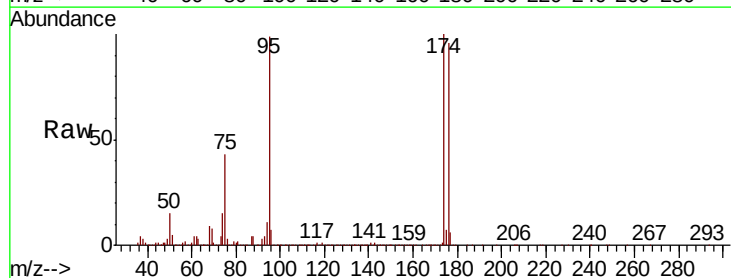
Tgt Ion: 75 Resp: 113251

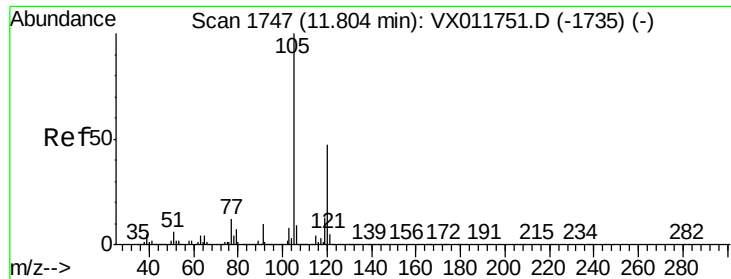
Ion Ratio Lower Upper

75 100

53 0.2 77.1 115.7#

89 0.0 38.5 57.7#

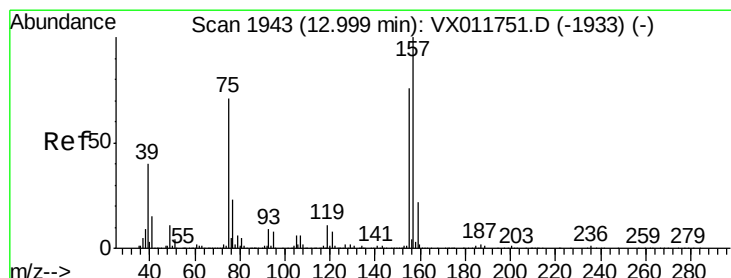
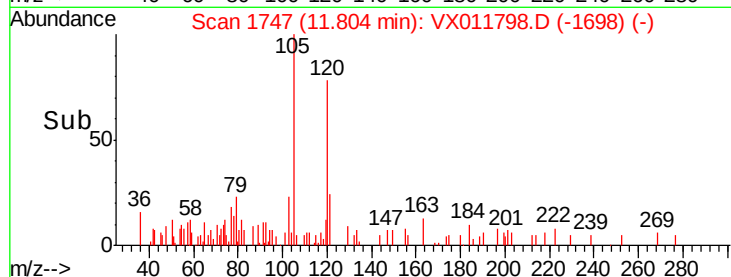
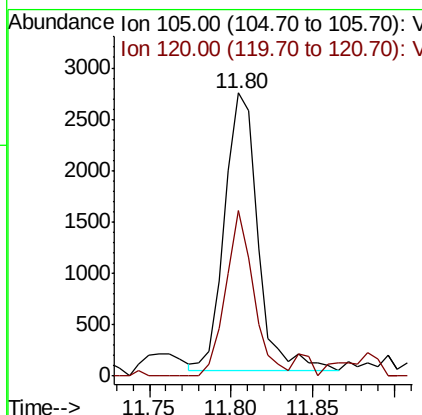
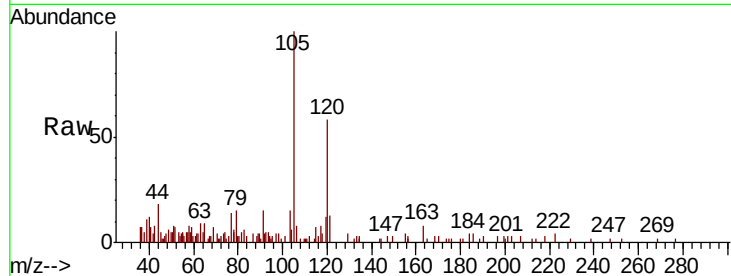




#84
 1,2,4-Trimethylbenzene
 Concen: 0.262 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX011798.D
 Acq: 23 Aug 2019 15:17

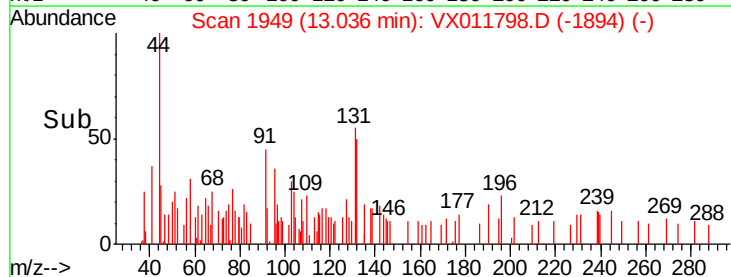
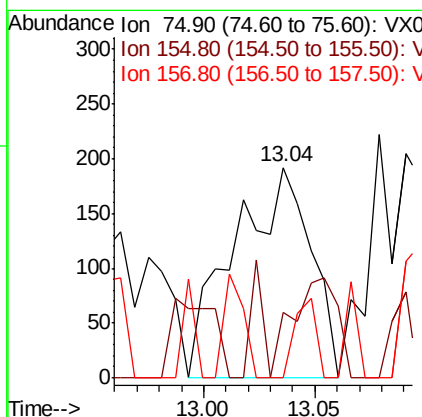
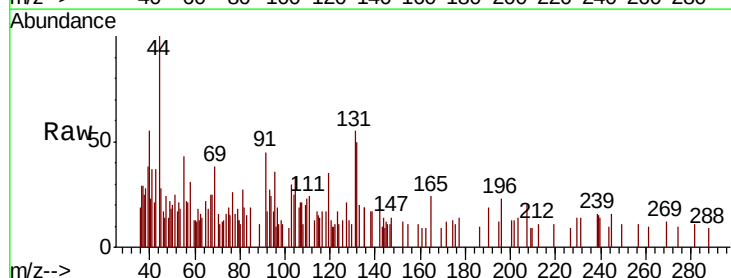
Instrument :
 MSVOA_X
 ClientSampled :
 WP-2

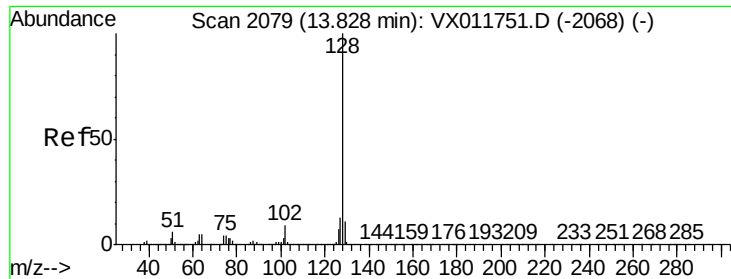
Tgt Ion: 105 Resp: 3843
 Ion Ratio Lower Upper
 105 100
 120 49.6 23.7 71.1



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.345 ug/l
 RT: 13.04 min Scan# 1949
 Delta R.T. 0.04 min
 Lab File: VX011798.D
 Acq: 23 Aug 2019 15:17

Tgt Ion: 75 Resp: 462
 Ion Ratio Lower Upper
 75 100
 155 8.7 52.6 157.9#
 157 0.0 68.3 204.9#

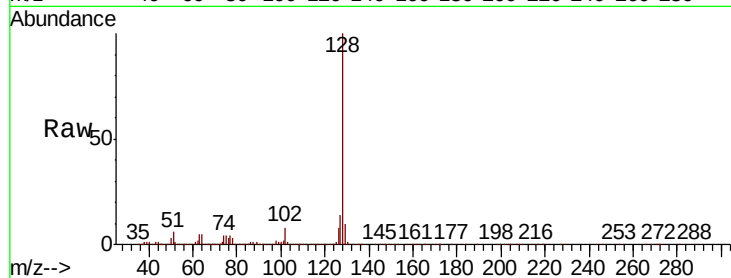




#95
Naphthalene
Concen: 4.092 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. 0.00 min
Lab File: VX011798.D
Acq: 23 Aug 2019 15:17

Instrument :
MSVOA_X
ClientSampleId :
WP-2

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	11.3	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

