

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\  
 Data File : VF060877.D  
 Acq On : 29 Nov 2018 20:11  
 Operator : VA/AP  
 Sample : J5765-05  
 Misc : 7.4µ/5mL/MSVOA-F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampled :  
 NB-07-112918

Quant Time: Nov 30 06:00:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	194818	50.00	µg/l	-0.03
34) 1,4-Difluorobenzene	5.60	114	328520	50.00	µg/l	-0.04
63) Chlorobenzene-d5	9.78	117	286350	50.00	µg/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	125279	50.00	µg/l	-0.02

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	103462	45.08	µg/l	-0.03
Spiked Amount	50.000		Recovery	=	90.16%	
35) Dibromofluoromethane	4.12	113	119133	45.71	µg/l	-0.03
Spiked Amount	50.000		Recovery	=	91.42%	
50) Toluene-d8	7.56	98	285663	37.21	µg/l	-0.03
Spiked Amount	50.000		Recovery	=	74.42%	
62) 4-Bromofluorobenzene	11.42	95	124639	35.72	µg/l	-0.02
Spiked Amount	50.000		Recovery	=	71.44%	

## Target Compounds

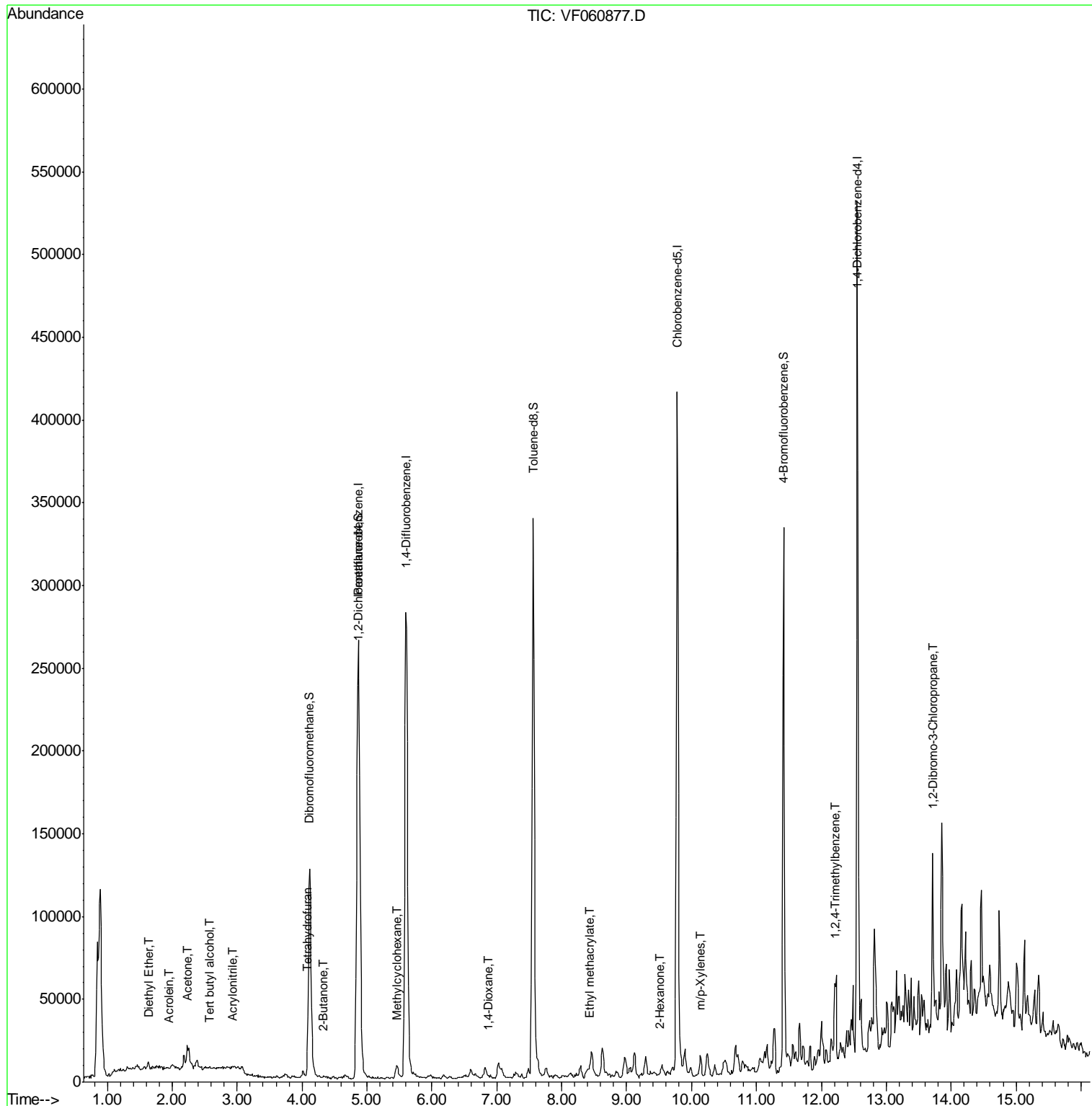
					Qvalue
8) Diethyl Ether	1.63	74	936	1.716	µg/l 89
11) Tert butyl alcohol	2.58	59	620	6.590	µg/l # 1
13) Acrolein	1.96	56	397	4.454	µg/l 82
15) Acrylonitrile	2.93	53	1124	5.329	µg/l # 36
16) Acetone	2.23	43	16589	39.198	µg/l 97
18) Methyl Acetate	2.34	43	881	Below Cal	# 61
25) 2-Butanone	4.34	43	3404	4.650	µg/l # 57
29) Tetrahydrofuran	4.08	42	986	3.178	µg/l # 51
39) Methylcyclohexane	5.47	83	5401	1.414	µg/l 90
41) Methacrylonitrile	4.76	41	262	Below Cal	# 23
43) Isopropyl Acetate	7.04	43	1207	Below Cal	# 49
49) 1,4-Dioxane	6.87	88	59	6.015	µg/l # 1
56) Ethyl methacrylate	8.43	69	2909	1.589	µg/l 98
59) 2-Hexanone	9.50	43	1269	1.325	µg/l 66
68) m/p-Xylenes	10.14	106	4136	1.109	µg/l 82
84) 1,2,4-Trimethylbenzene	12.21	105	16689	2.081	µg/l 89
92) 1,2-Dibromo-3-Chloropropan	13.71	75	368	1.168	µg/l # 1
95) Naphthalene	14.46	128	12597	Below Cal	# 84

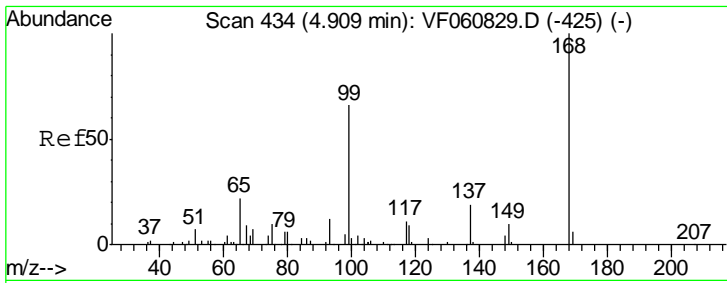
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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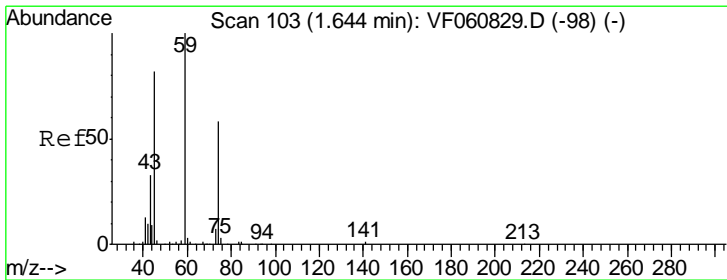
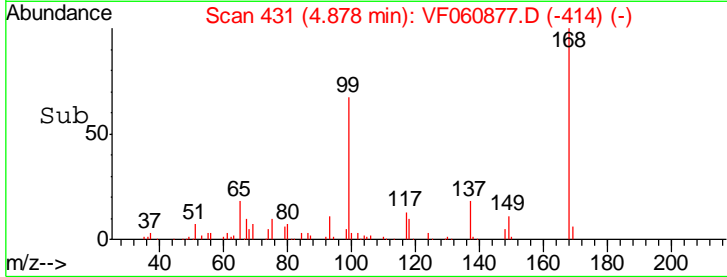
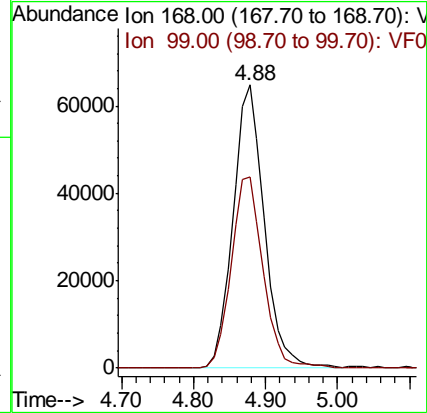
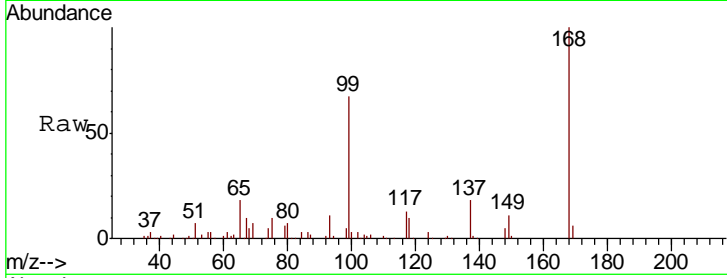




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 4.88 min Scan# 431  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

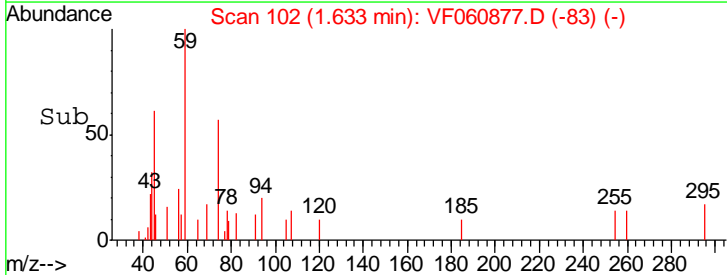
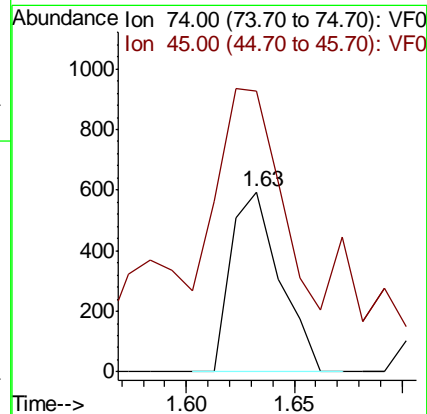
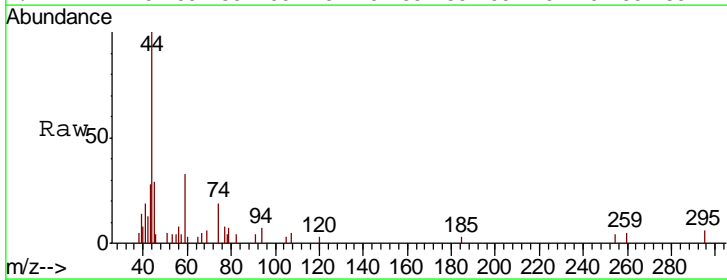
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 NB-07-112918

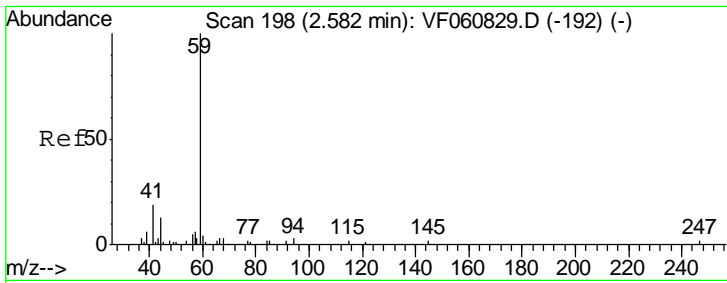
Tgt Ion: 168 Resp: 194818  
 Ion Ratio Lower Upper  
 168 100  
 99 67.4 52.6 79.0



#8  
 Diethyl Ether  
 Concen: 1.716 ug/l  
 RT: 1.63 min Scan# 102  
 Delta R.T. -0.01 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion: 74 Resp: 936  
 Ion Ratio Lower Upper  
 74 100  
 45 155.5 71.0 212.8

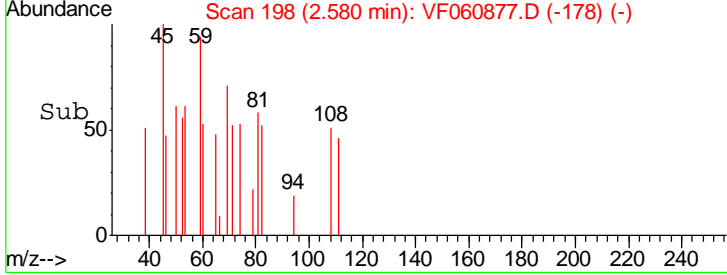
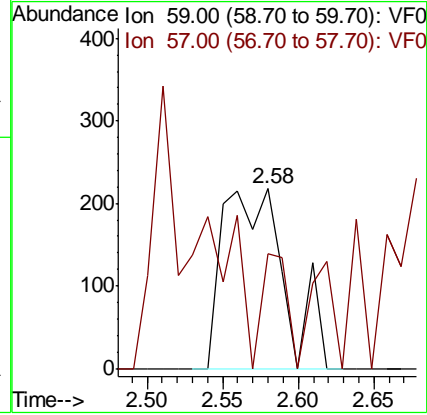
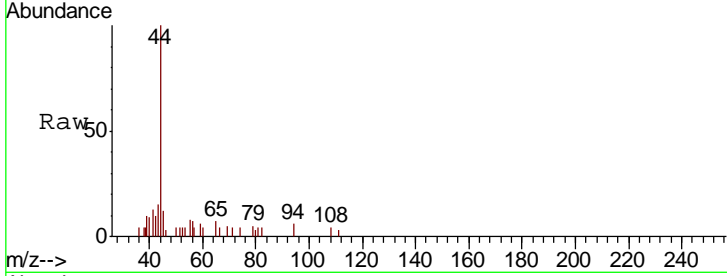




#11  
 Tert butyl alcohol  
 Concen: 6.590 ug/l  
 RT: 2.58 min Scan# 198  
 Delta R.T. -0.00 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

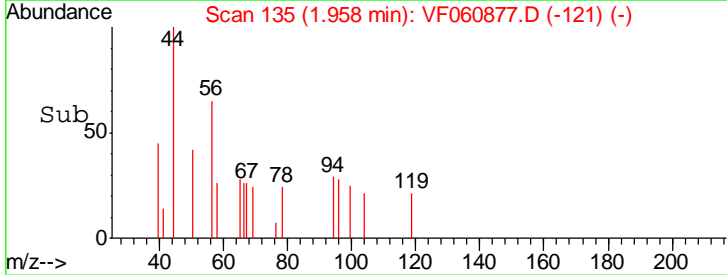
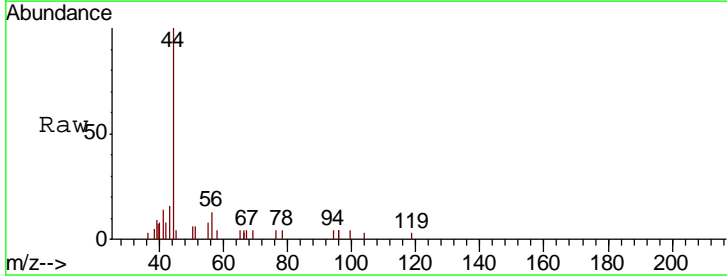
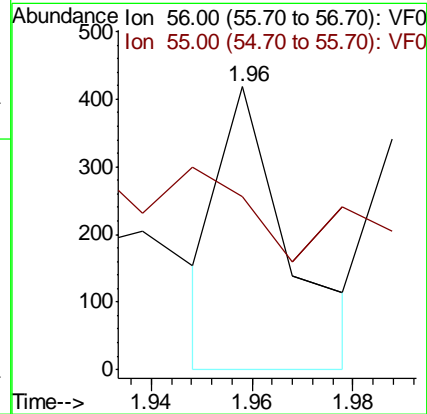
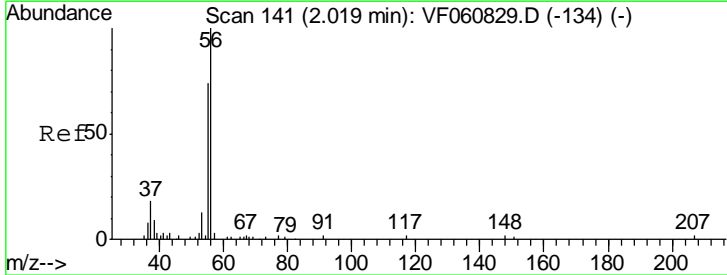
Instrument : MSVOA\_F  
 Client Sampled : NB-07-112918

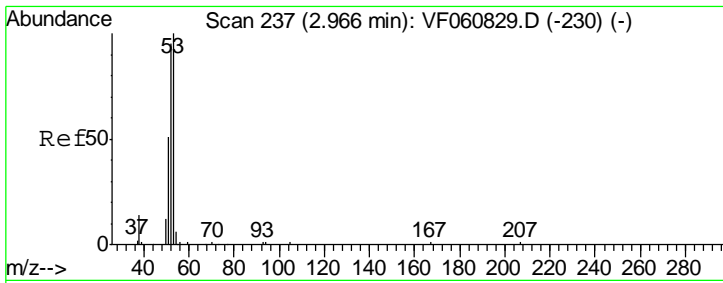
Tgt Ion	Resp	Lower	Upper
59	100		
57	63.8	12.7	19.1#



#13  
 Acrolein  
 Concen: 4.454 ug/l  
 RT: 1.96 min Scan# 135  
 Delta R.T. -0.06 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
56	100		
55	61.2	61.2	91.8

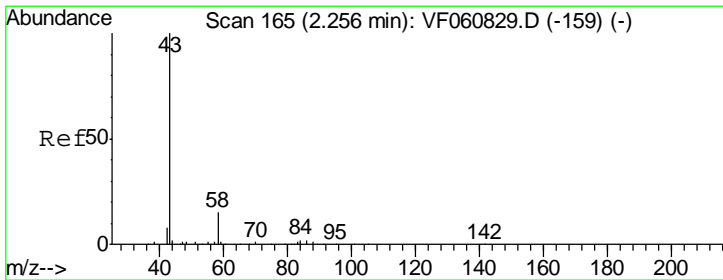
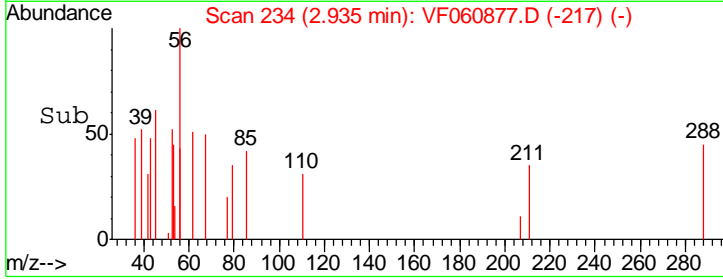
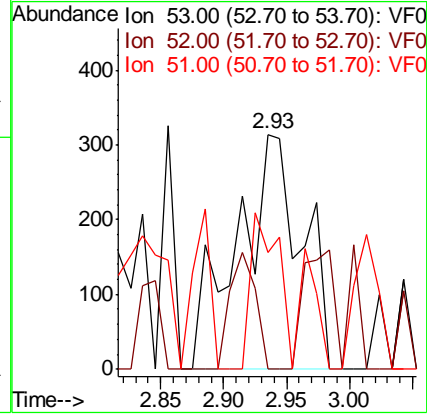
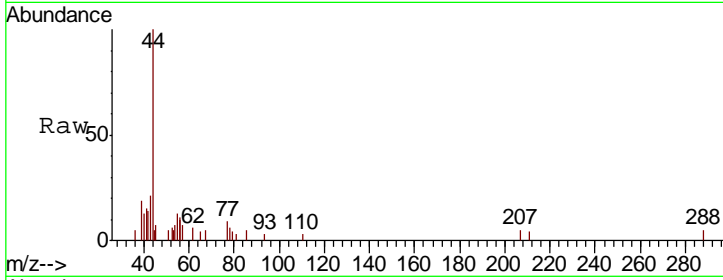




#15  
 Acrylonitrile  
 Concen: 5.329 ug/l  
 RT: 2.93 min Scan# 234  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

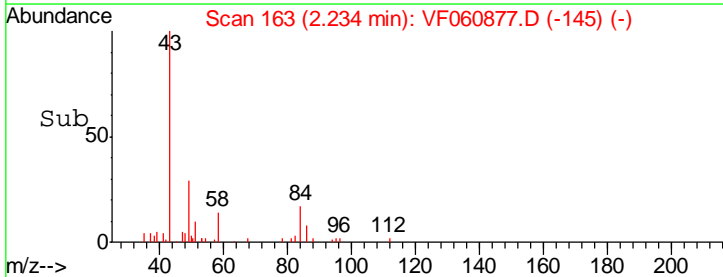
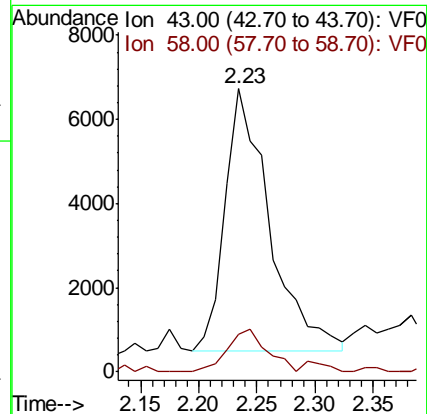
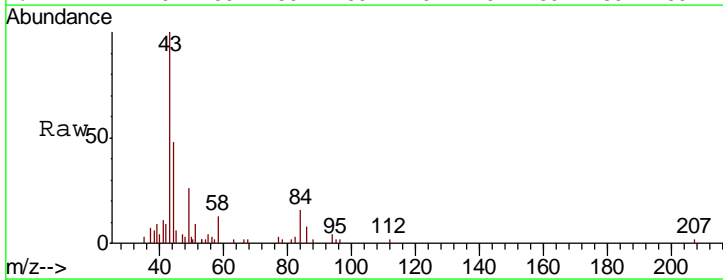
**Instrument :**  
 MSVOA\_F  
**ClientSampled :**  
 NB-07-112918

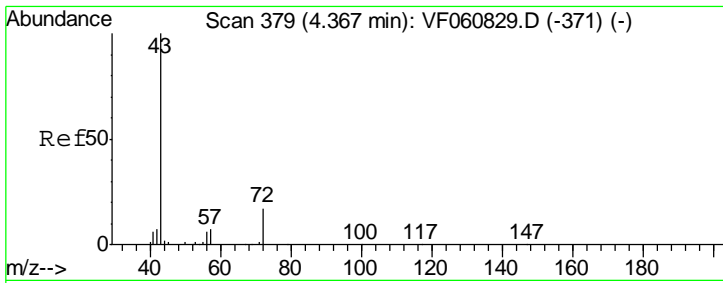
Tgt Ion	Resp	Lower	Upper
53	1124		
52	0.0	76.5	114.7#
51	50.0	40.7	61.1



#16  
 Acetone  
 Concen: 39.198 ug/l  
 RT: 2.23 min Scan# 163  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
43	16589		
58	13.1	11.4	17.2

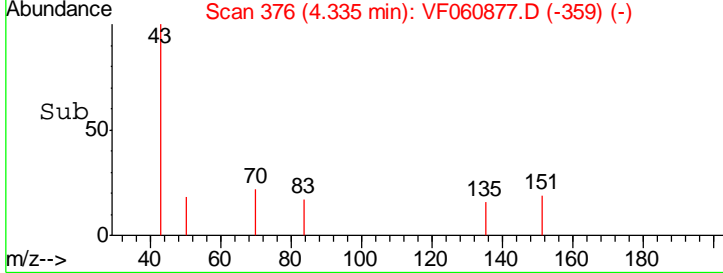
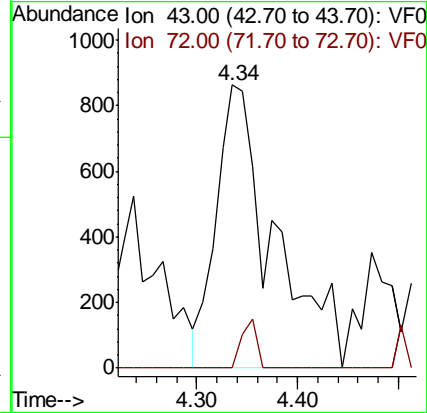
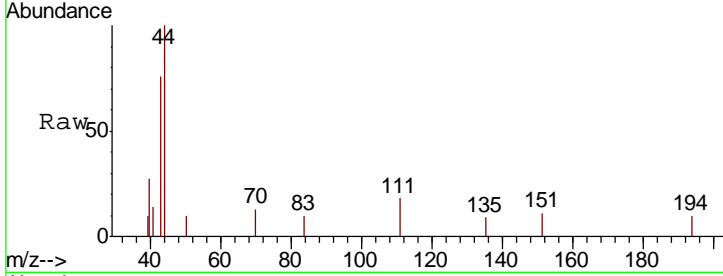




#25  
 2-Butanone  
 Concen: 4.650 ug/l  
 RT: 4.34 min Scan# 376  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

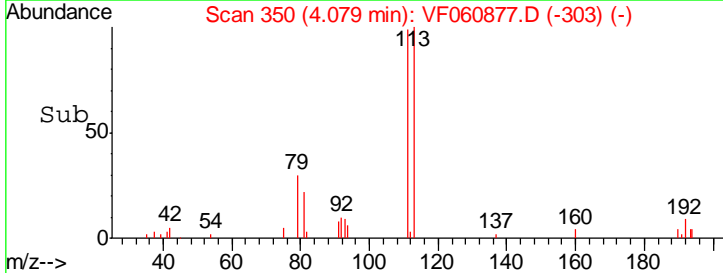
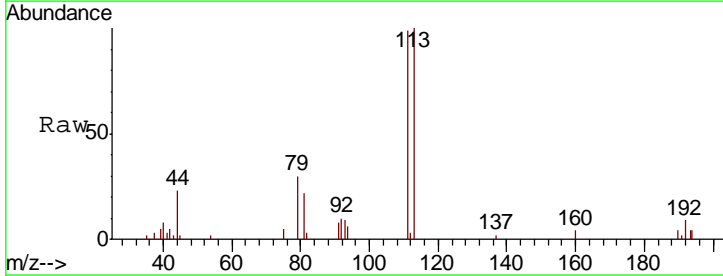
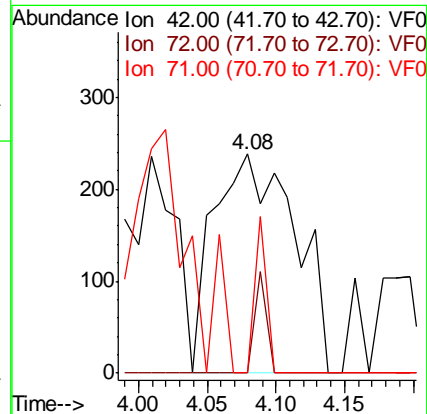
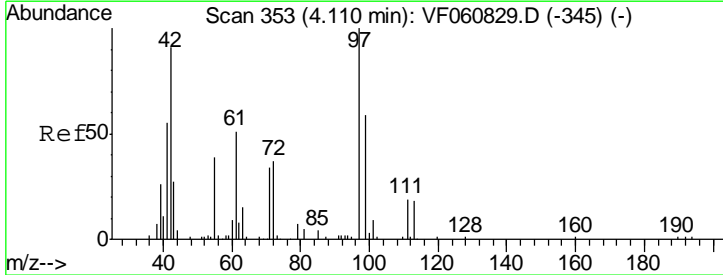
Instrument :  
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 ClientSampleID :  
 NB-07-112918

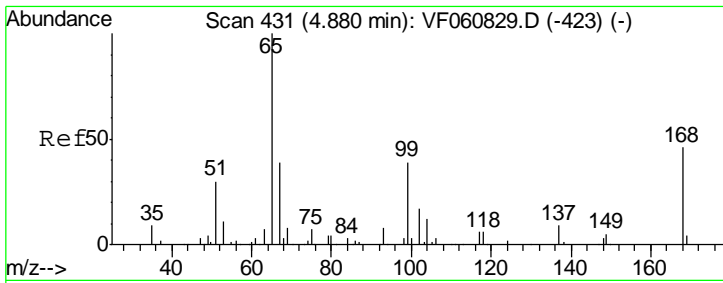
Tgt Ion	Resp	Lower	Upper
43	100		
72	0.0	15.4	23.2#



#29  
 Tetrahydrofuran  
 Concen: 3.178 ug/l  
 RT: 4.08 min Scan# 350  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
42	100		
72	6.6	31.9	47.9#
71	10.2	28.7	43.1#

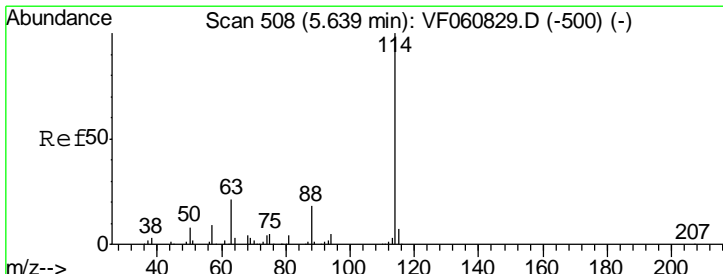
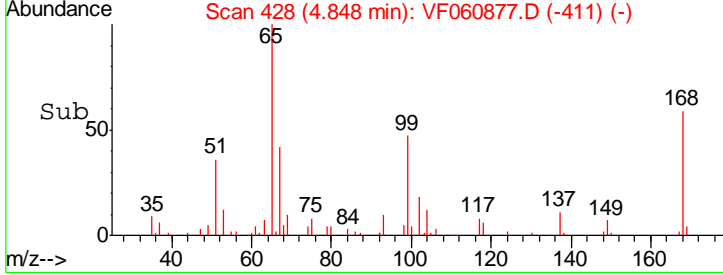
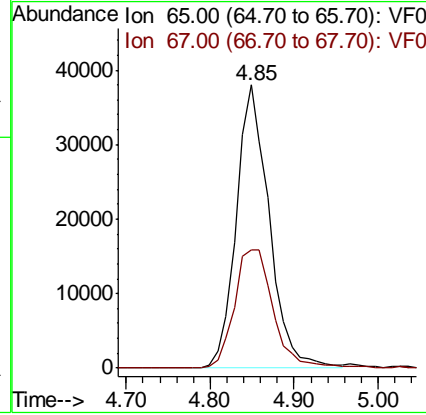
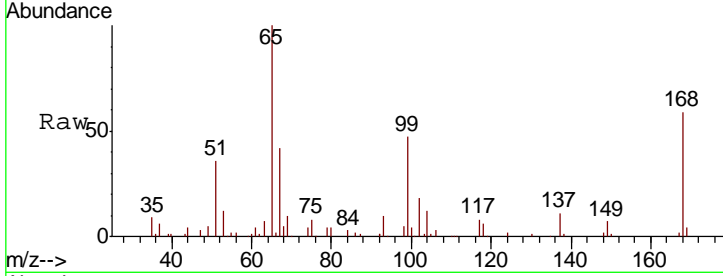




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.081 ug/l  
 RT: 4.85 min Scan# 428  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

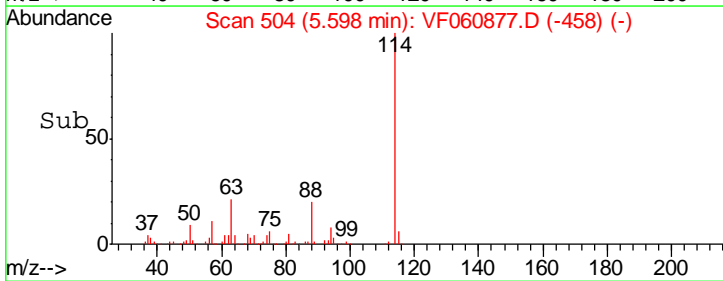
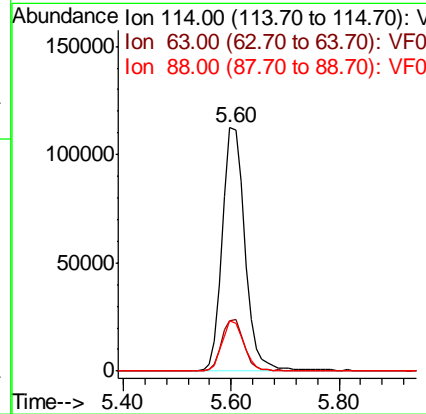
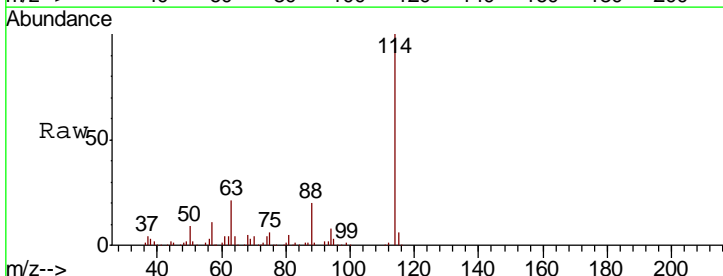
Instrument :  
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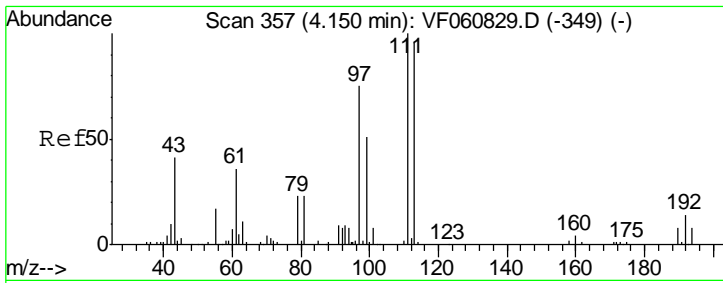
Tgt Ion	Resp	Lower	Upper
65	103462		
67	41.9	0.0	96.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.60 min Scan# 504  
 Delta R.T. -0.04 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
114	328520		
63	20.9	0.0	41.6
88	20.4	0.0	36.6

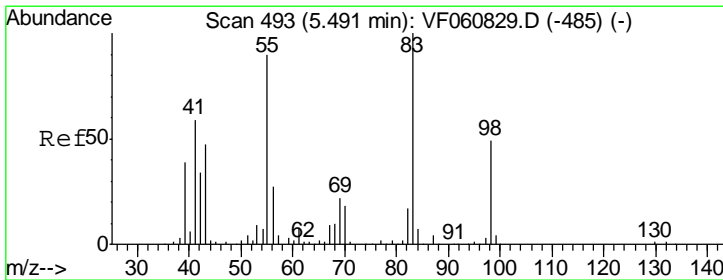
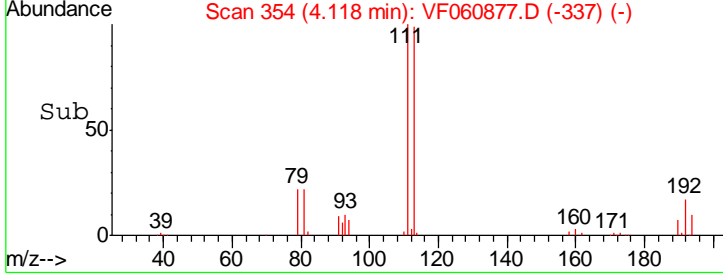
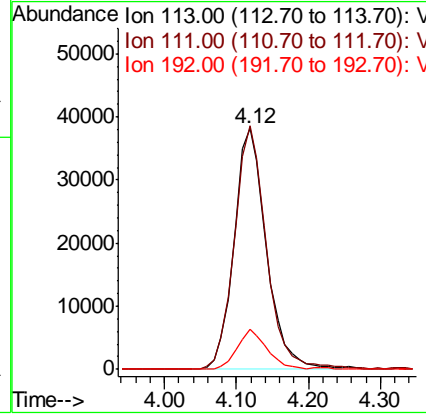
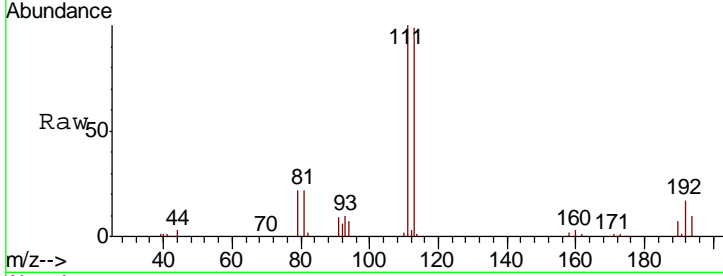




#35  
 Dibromofluoromethane  
 Concen: 45.711 ug/l  
 RT: 4.12 min Scan# 354  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

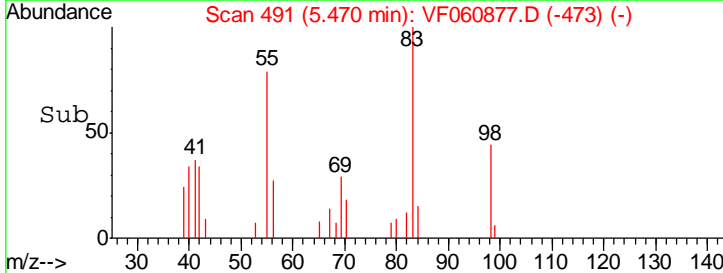
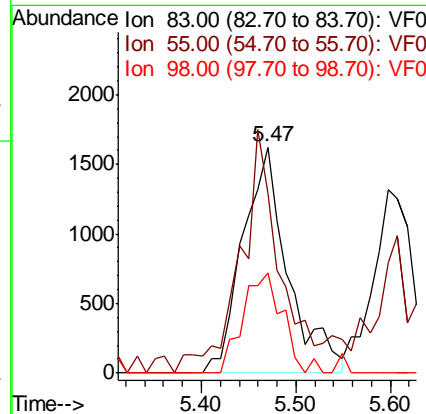
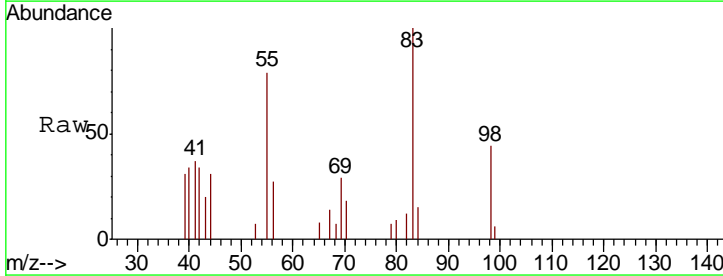
**Instrument :**  
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 NB-07-112918

Tgt Ion	Resp	Lower	Upper
113	119133		
113	100		
111	101.2	83.0	124.6
192	16.7	12.3	18.5

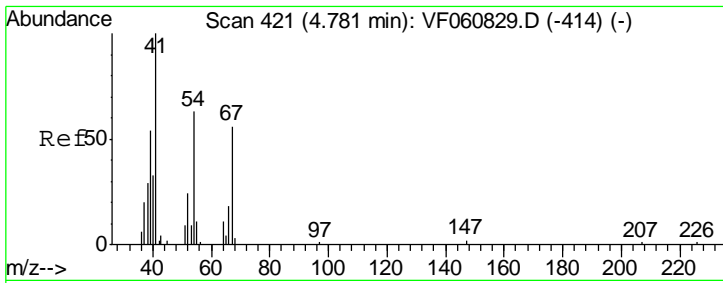


#39  
 Methylcyclohexane  
 Concen: 1.414 ug/l  
 RT: 5.47 min Scan# 491  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
83	5401		
83	100		
55	79.4	72.1	108.1
98	44.5	39.1	58.7





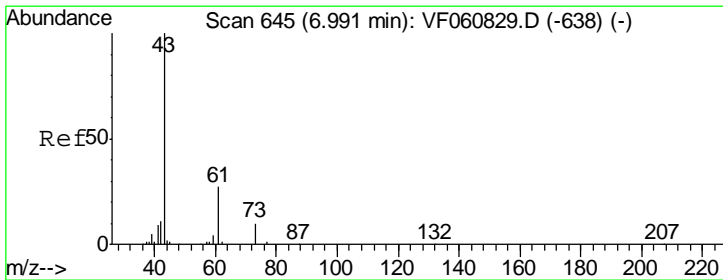
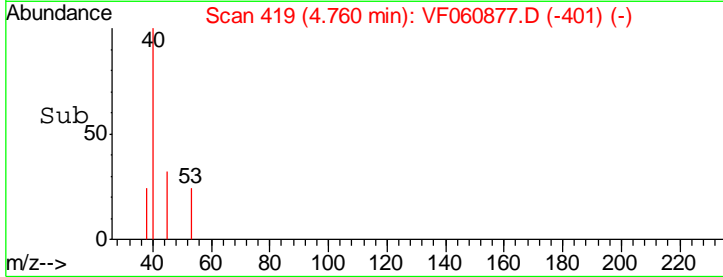
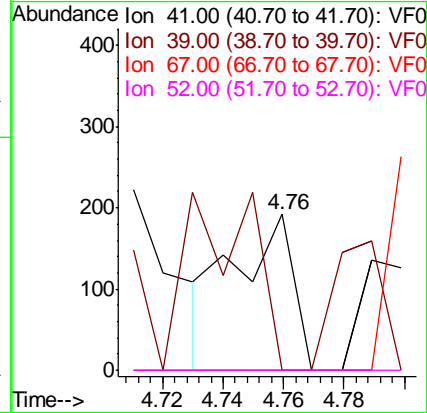
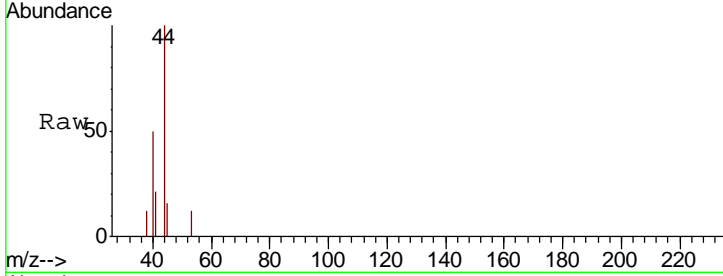


#41  
 Methacrylonitrile  
 Concen: Below Cal  
 RT: 4.76 min Scan# 419  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-07-112918

Tgt Ion: 41 Resp: 262

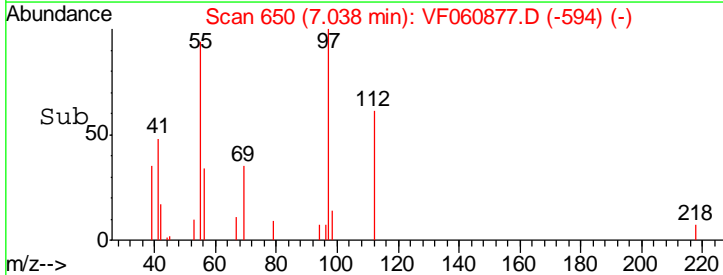
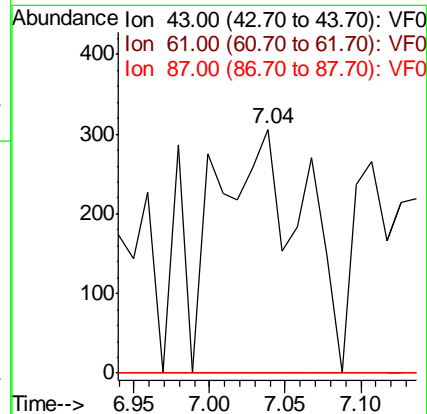
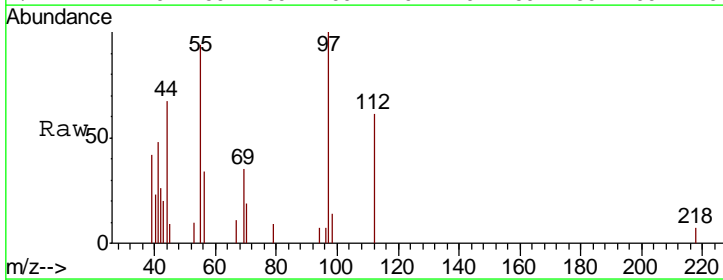
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#

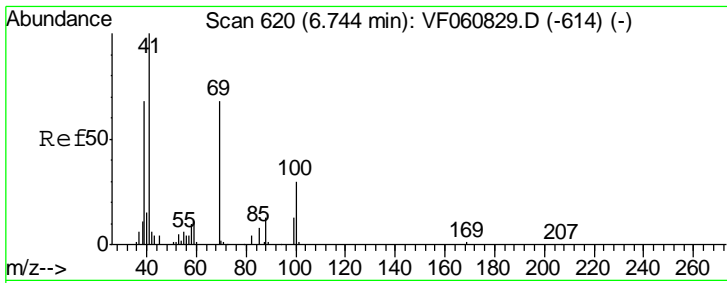


#43  
 Isopropyl Acetate  
 Concen: Below Cal  
 RT: 7.04 min Scan# 650  
 Delta R.T. 0.05 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion: 43 Resp: 1207

Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

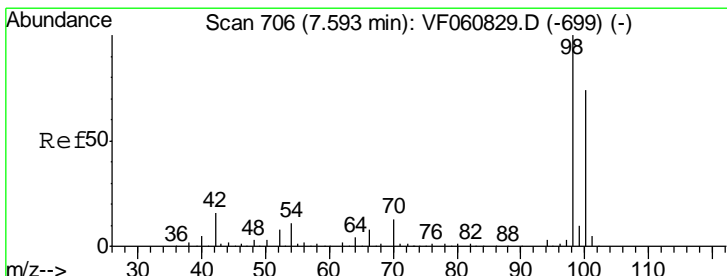
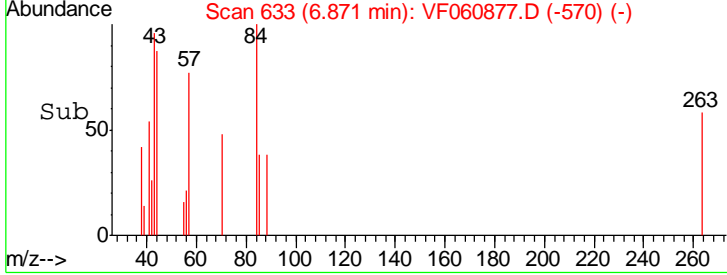
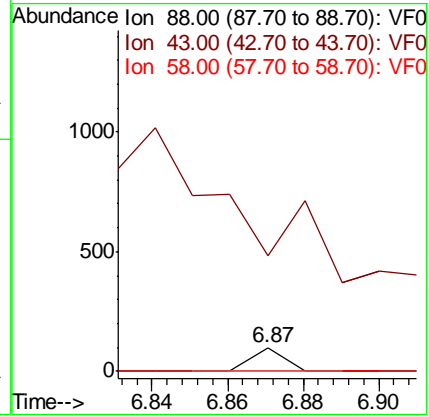
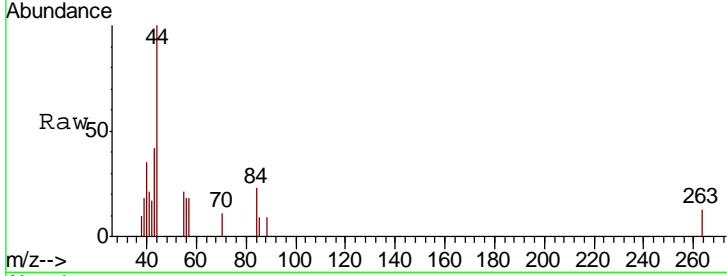




#49  
 1,4-Dioxane  
 Concen: 6.015 ug/l  
 RT: 6.87 min Scan# 633  
 Delta R.T. 0.13 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

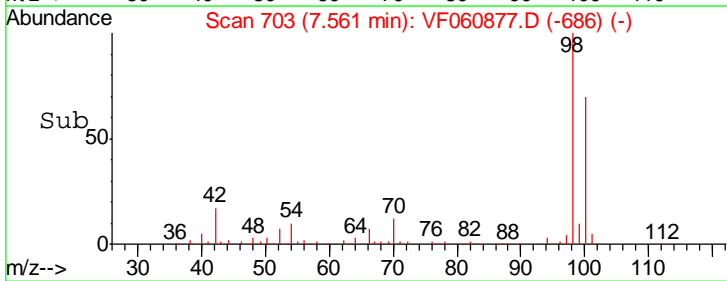
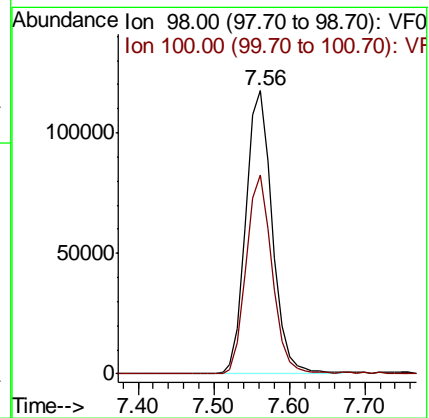
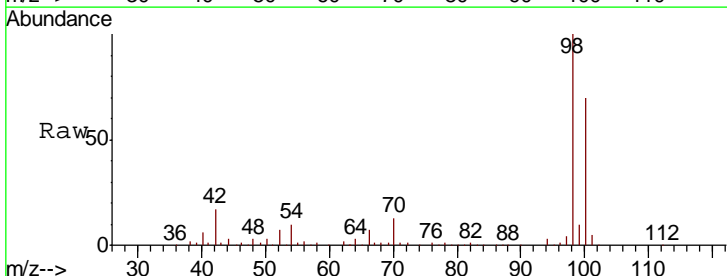
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 NB-07-112918

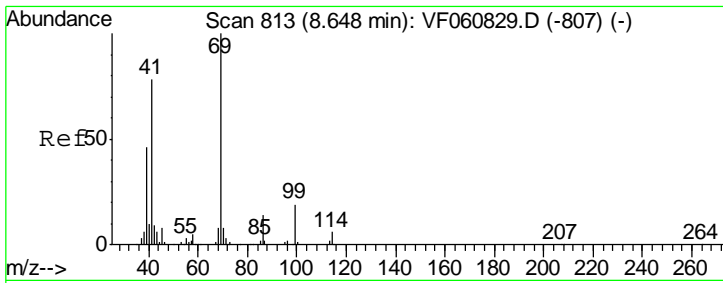
Tgt Ion	Resp	Lower	Upper
88	100		
43	484.0	42.0	63.0#
58	0.0	61.8	92.8#



#50  
 Toluene-d8  
 Concen: 37.209 ug/l  
 RT: 7.56 min Scan# 703  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
98	100		
100	70.4	59.3	88.9

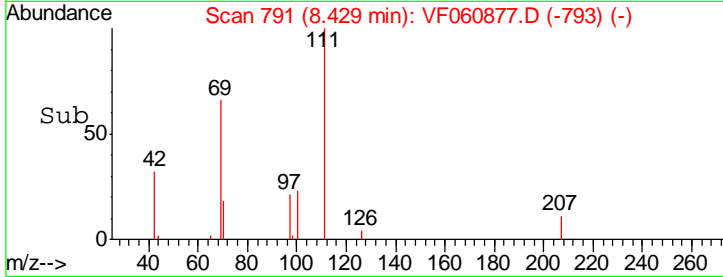
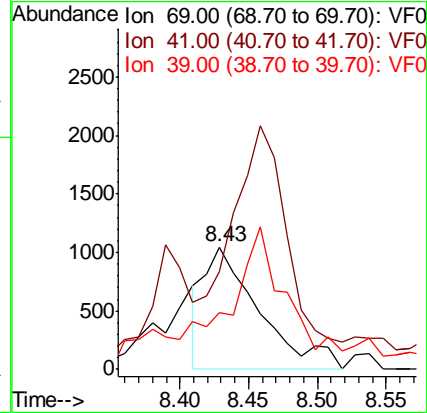
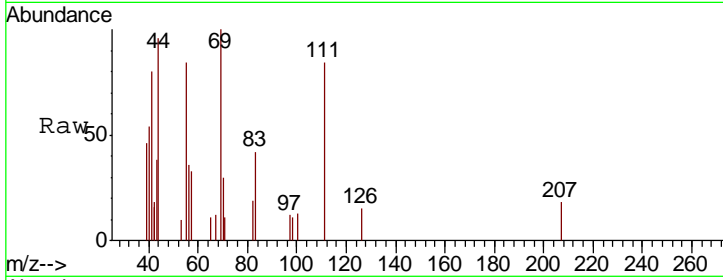




#56  
 Ethyl methacrylate  
 Concen: 1.589 ug/l  
 RT: 8.43 min Scan# 791  
 Delta R.T. -0.22 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

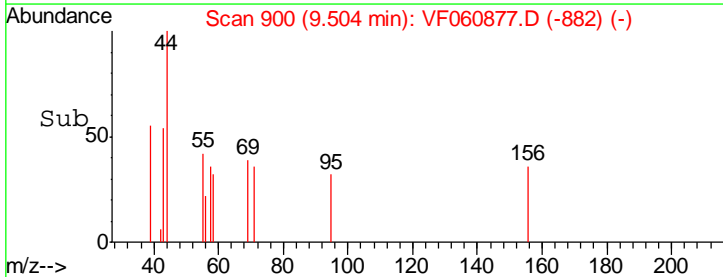
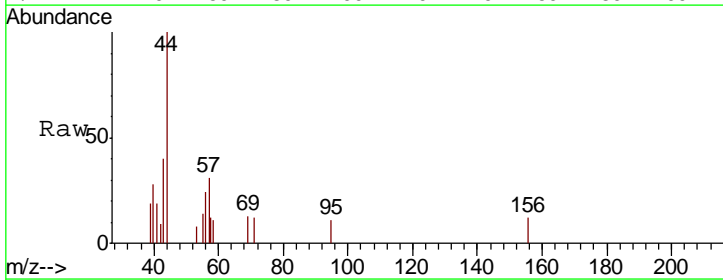
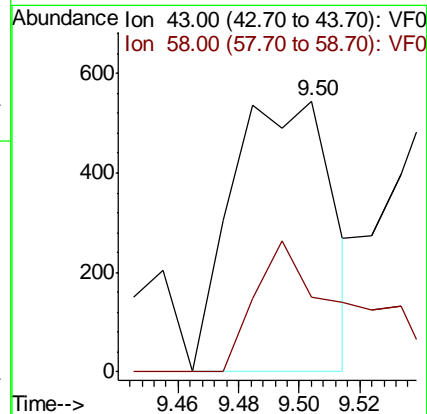
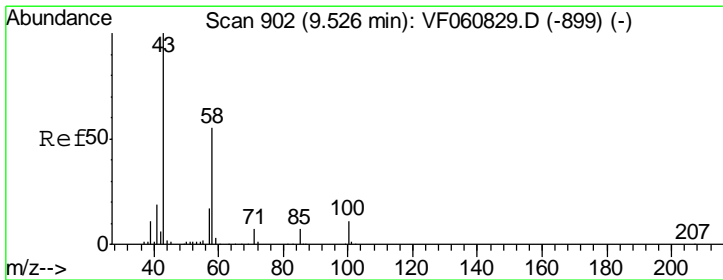
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 NB-07-112918

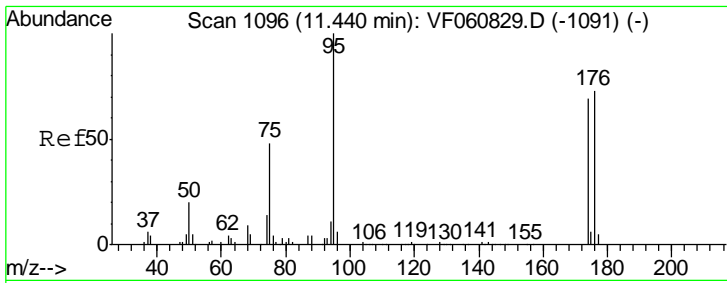
Tgt Ion	Resp	Lower	Upper
69	100		
41	79.8	62.6	94.0
39	46.1	37.8	56.6



#59  
 2-Hexanone  
 Concen: 1.325 ug/l  
 RT: 9.50 min Scan# 900  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
43	100		
58	27.5	25.6	76.6

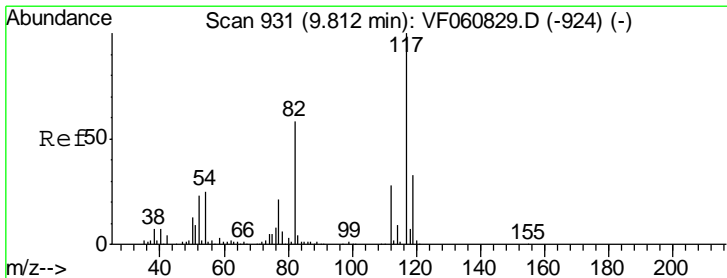
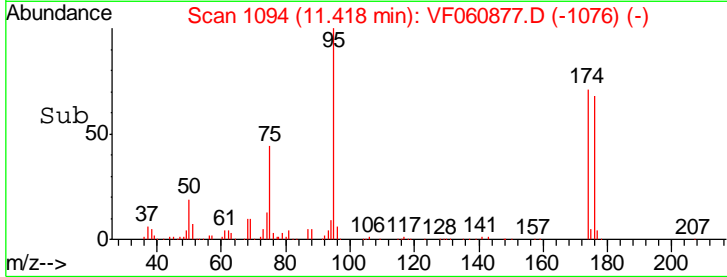
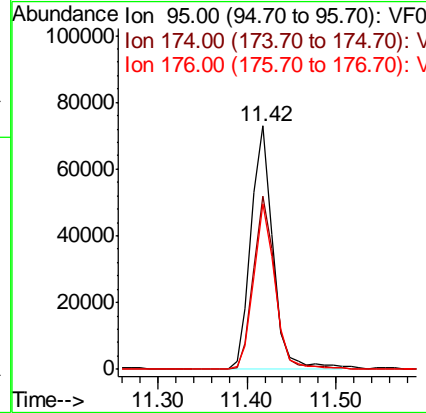
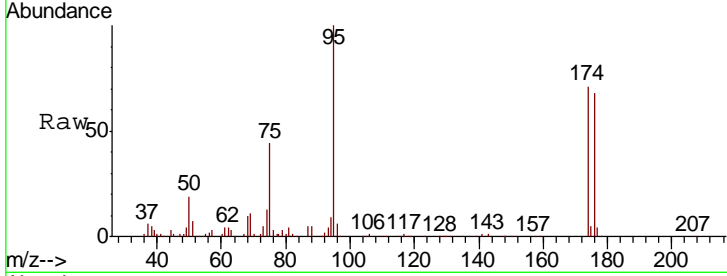




#62  
 4-Bromofluorobenzene  
 Concen: 35.722 ug/l  
 RT: 11.42 min Scan# 1094  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

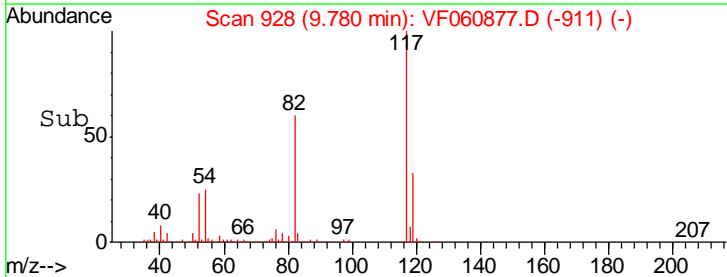
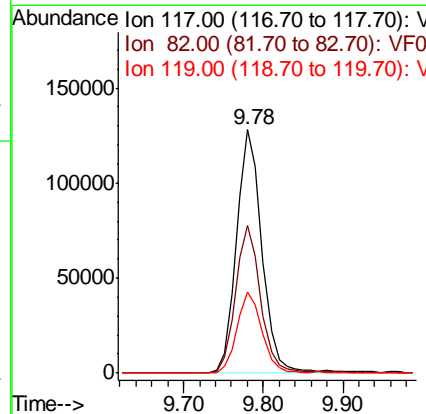
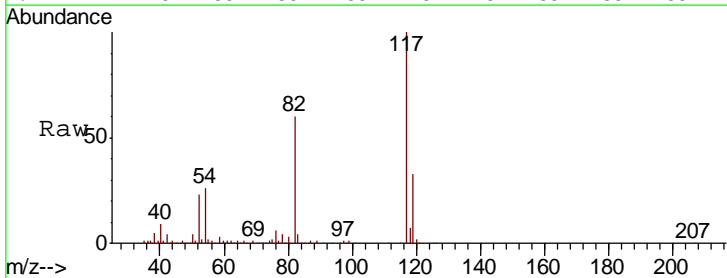
Instrument :  
 MSVOA\_F  
 ClientSampled :  
 NB-07-112918

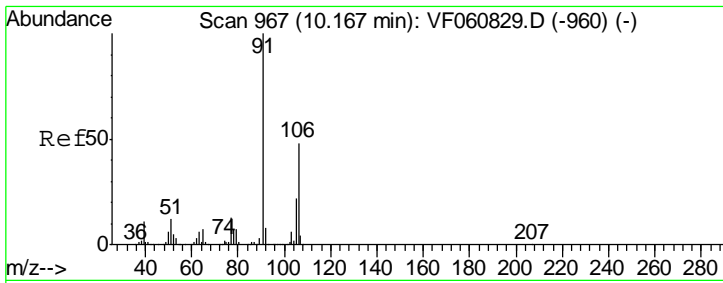
Tgt Ion	Resp	Lower	Upper
95	124639		
174	71.0	0.0	138.2
176	68.0	0.0	146.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.78 min Scan# 928  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
117	286350		
82	60.4	46.6	69.8
119	33.3	26.4	39.6

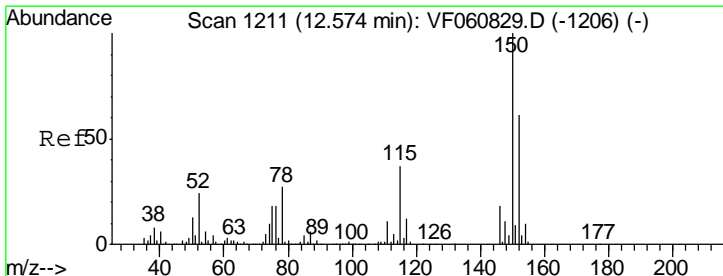
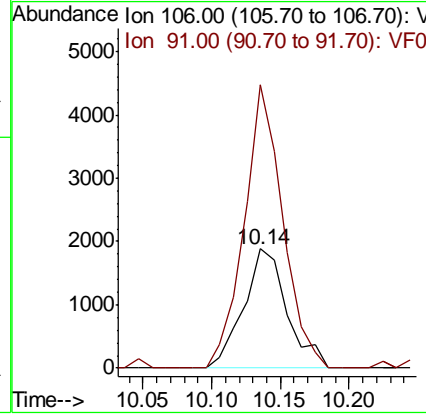
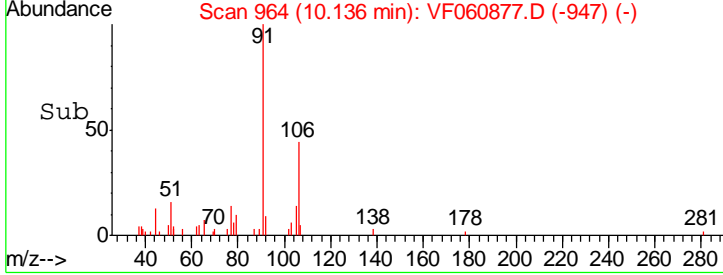
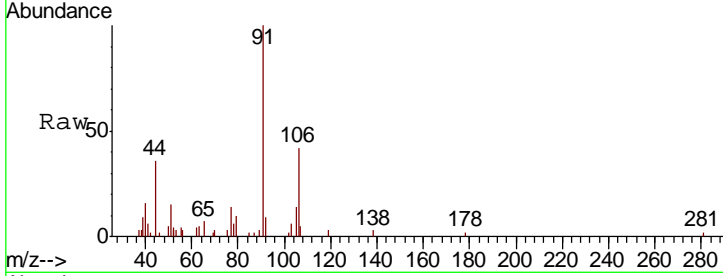




#68  
 m/p-Xylenes  
 Concen: 1.109 ug/l  
 RT: 10.14 min Scan# 964  
 Delta R.T. -0.03 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

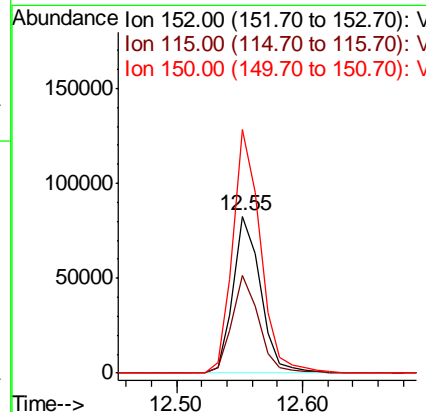
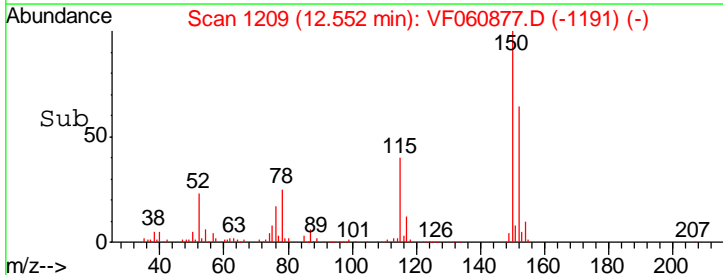
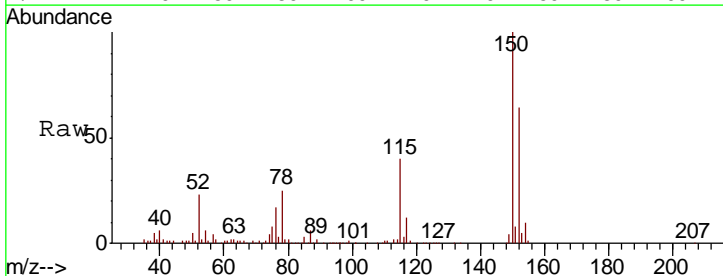
Instrument : MSVOA\_F  
 ClientSampleId : NB-07-112918

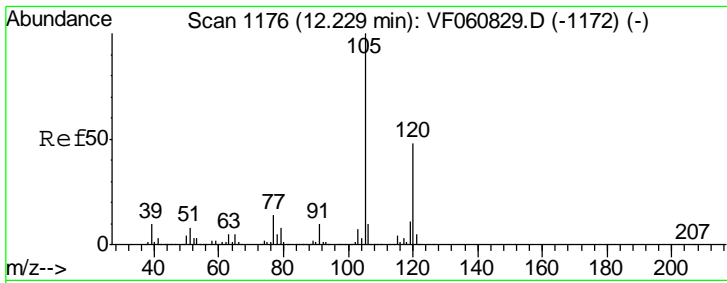
Tgt Ion	Resp	Lower	Upper
106	4136		
91	236.9	166.7	250.1



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.55 min Scan# 1209  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion	Resp	Lower	Upper
152	125279		
115	62.3	30.1	90.5
150	155.2	0.0	327.6

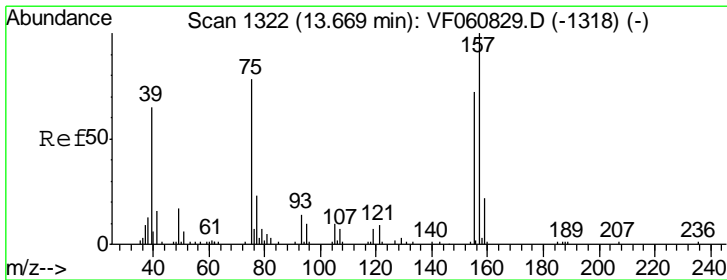
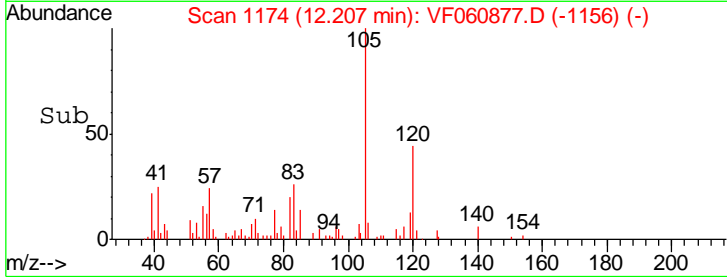
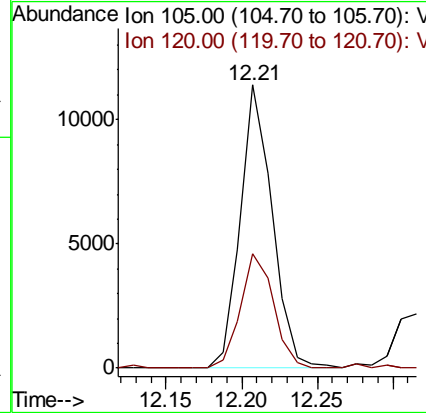
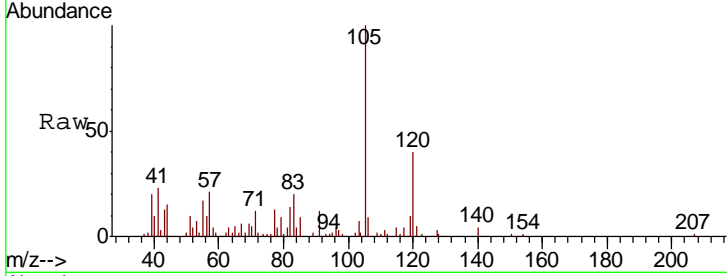




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.081 ug/l  
 RT: 12.21 min Scan# 1174  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

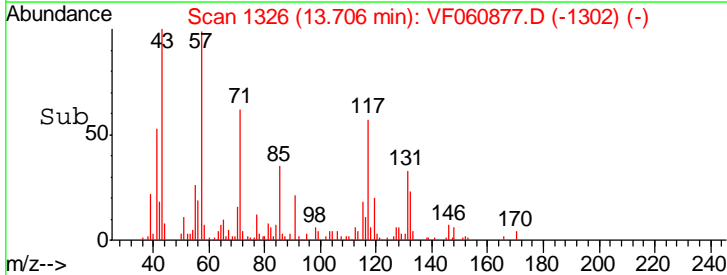
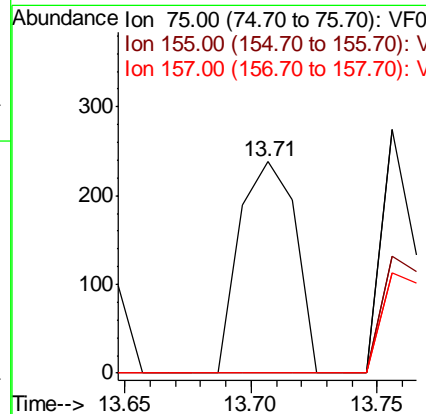
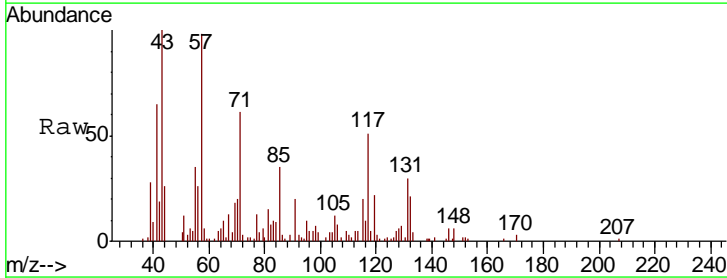
Instrument : MSVOA\_F  
 ClientSampled : NB-07-112918

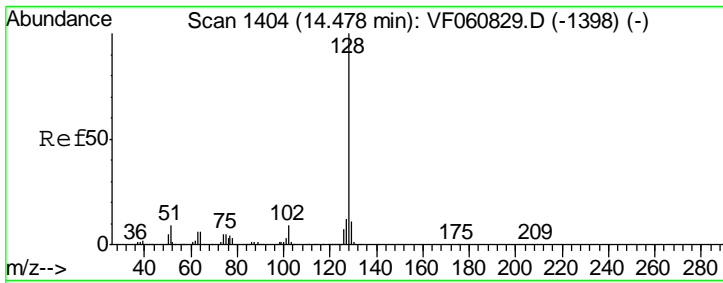
Tgt Ion: 105 Resp: 16689  
 Ion Ratio Lower Upper  
 105 100  
 120 40.4 23.8 71.5



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.168 ug/l  
 RT: 13.71 min Scan# 1326  
 Delta R.T. 0.04 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Tgt Ion: 75 Resp: 368  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 45.6 136.9#  
 157 0.0 63.8 191.5#





#95  
 Naphthalene  
 Concen: Below Cal  
 RT: 14.46 min Scan# 1402  
 Delta R.T. -0.02 min  
 Lab File: VF060877.D  
 Acq: 29 Nov 2018 20:11

Instrument : MSVOA\_F  
 ClientSampleId : NB-07-112918

Tot Ion	128	Resp	12597
Ion Ratio	Lower	Upper	
128	100		
127	17.6	9.9	14.9#
129	19.1	9.1	13.7#

