

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051316\
 Data File : BF087007.D
 Acq On : 14 May 2016 8:58
 Operator : UM/SJ
 Sample : H2989-02MSD
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-2MSD

Quant Time: May 16 01:03:10 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	142154	20.00	ng	-0.08
21) Naphthalene-d8	7.90	136	574315	20.00	ng	-0.09
38) Acenaphthene-d10	9.64	164	124032	20.00	ng	-0.09
63) Phenanthrene-d10	11.13	188	417393	20.00	ng	-0.08
75) Chrysene-d12	13.75	240	127114	20.00	ng	-0.09
86) Perylene-d12	15.11	264	5069	20.00	ng	-0.10

System Monitoring Compounds

5) 2-Fluorophenol	5.23	112	1115042	132.84	ng	-0.05
7) Phenol-d6	6.28	99	884426	78.84	ng	-0.08
23) Nitrobenzene-d5	7.19	82	1011739	88.46	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	455317	346.75	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	1560662	211.47	ng	-0.08
78) Terphenyl-d14	12.71	244	1288256	215.03	ng	-0.09

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.25	88	218402	53.00	ng	# 71
3) Pyridine	2.98	79	24462	2.43	ng	# 1
4) n-Nitrosodimethylamine	2.80	42	209104	28.62	ng	# 51
6) Aniline	6.36	93	451712	33.29	ng	# 53
8) 2-Chlorophenol	6.41	128	429047	42.36	ng	93
9) Benzaldehyde	6.17	77	35257	5.43	ng	97
10) Phenol	6.30	94	380506	28.54	ng	# 69
11) bis(2-Chloroethyl)ether	6.36	93	451712	43.45	ng	91
12) 1,3-Dichlorobenzene	6.79	146	415099	37.87	ng	99
13) 1,4-Dichlorobenzene	6.79	146	417912	37.39	ng	97
14) 1,2-Dichlorobenzene	6.79	146	421295	43.24	ng	98
15) Benzyl Alcohol	6.76	79	29730	3.84	ng	# 45
16) 2,2'-oxybis(1-Chloropropan	6.90	45	913964	40.43	ng	83
17) 2-Methylphenol	6.90	107	235387	29.21	ng	# 70
18) Hexachloroethane	7.12	117	169774	40.37	ng	98
19) n-Nitroso-di-n-propylamine	7.05	70	252598	32.22	ng	# 78
20) 3+4-Methylphenols	7.06	107	317366	30.15	ng	# 61
22) Acetophenone	7.04	105	664366	48.97	ng	# 96
24) Nitrobenzene	7.21	77	569168	48.37	ng	96
25) Isophorone	7.45	82	848746	40.00	ng	98
26) 2-Nitrophenol	7.53	139	237943	46.01	ng	97
27) 2,4-Dimethylphenol	7.59	122	269778	30.62	ng	92
28) bis(2-Chloroethoxy)methane	7.67	93	77315	6.75	ng	98
29) 2,4-Dichlorophenol	7.78	162	370277	47.75	ng	95
30) 1,2,4-Trichlorobenzene	7.85	180	384250	44.32	ng	99
31) Naphthalene	7.92	128	1233525	42.88	ng	99
32) Benzoic acid	7.74	122	263844	50.99	ng	# 82
33) 4-Chloroaniline	7.92	127	165822	14.84	ng	# 34
34) Hexachlorobutadiene	8.04	225	228027	45.33	ng	98
35) Caprolactam	8.38	113	62537	23.70	ng	# 67
36) 4-Chloro-3-methylphenol	8.49	107	331199	35.22	ng	93
37) 2-Methylnaphthalene	8.62	142	870343	51.75	ng	97
39) 1,2,4,5-Tetrachlorobenzene	8.79	216	345773	95.88	ng	97
40) Hexachlorocyclopentadiene	8.76	237	310332	181.30	ng	97

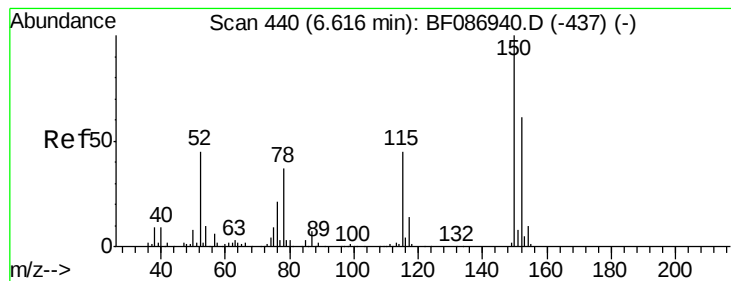
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051316\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.90	196	241946	100.33	ng	94
43) 2,4,5-Trichlorophenol	8.96	196	266196	106.74	ng	95
45) 1,1'-Biphenyl	9.08	154	1086369	110.12	ng	100
46) 2-Chloronaphthalene	9.11	162	789765	102.18	ng	98
47) 2-Nitroaniline	9.21	65	77405	27.40	ng	# 77
48) Acenaphthylene	9.51	152	318142	27.98	ng	99
49) Dimethylphthalate	9.39	163	754136	79.69	ng	100
50) 2,6-Dinitrotoluene	9.45	165	192491	96.66	ng	# 66
51) Acenaphthene	9.68	154	400634	56.65	ng	98
52) 3-Nitroaniline	9.63	138	13716	6.54	ng	# 79
53) 2,4-Dinitrophenol	9.74	184	224778	207.33	ng	# 83
54) Dibenzofuran	9.86	168	1042267	114.81	ng	100
55) 4-Nitrophenol	9.86	139	675492	460.22	ng	# 21
56) 2,4-Dinitrotoluene	9.86	165	278271	112.91	ng	92
57) Fluorene	10.19	166	688504	88.93	ng	99
58) 2,3,4,6-Tetrachlorophenol	9.99	232	219908	117.13	ng	98
59) Diethylphthalate	10.09	149	710634	77.06	ng	96
60) 4-Chlorophenyl-phenylether	10.19	204	370611	Below	Cal	96
61) 4-Nitroaniline	10.24	138	28436	14.12	ng	# 77
62) Azobenzene	10.35	77	176482	17.74	ng	87
64) 4,6-Dinitro-2-methylphenol	10.26	198	153560	59.22	ng	# 64
65) n-Nitrosodiphenylamine	10.32	169	88997	6.94	ng	98
66) 4-Bromophenyl-phenylether	10.68	248	238356	56.32	ng	# 78
67) Hexachlorobenzene	10.74	284	279702	56.55	ng	# 79
68) Atrazine	10.95	200	60005	14.01	ng	# 36
69) Pentachlorophenol	10.95	266	297419	130.12	ng	97
70) Phenanthrene	11.15	178	1179377	52.95	ng	100
71) Anthracene	11.20	178	824136	36.18	ng	98
73) Di-n-butylphthalate	11.70	149	940930	39.35	ng	# 99
74) Fluoranthene	12.33	202	735701	32.11	ng	96
76) Benzidine	12.71	184	20792	6.42	ng	# 88
77) Pyrene	12.56	202	385843	39.65	ng	99
79) Butylbenzylphthalate	13.19	149	60251	14.64	ng	# 85
80) Benzo(a)anthracene	13.74	228	391729	54.90	ng	99
82) Chrysene	13.78	228	554726	76.42	ng	99
83) Bis(2-ethylhexyl)phthalate	13.75	149	477000	96.34	ng	# 95
84) Di-n-octyl phthalate	14.35	149	652000	79.49	ng	# 85
85) Indeno(1,2,3-cd)pyrene	16.35	276	147387	24.40	ng	97
87) Benzo(b)fluoranthene	14.74	252	501826	1523.28	ng	# 94
88) Benzo(k)fluoranthene	14.74	252	502126	1861.47	ng	# 97
89) Benzo(a)pyrene	15.05	252	141893	499.36	ng	96
90) Dibenzo(a,h)anthracene	16.37	278	257812	1076.54	ng	# 94
91) Benzo(g,h,i)perylene	16.72	276	179701	738.50	ng	# 93

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Instrument :

BNA_F

ClientSampleId :

WC-2MSD

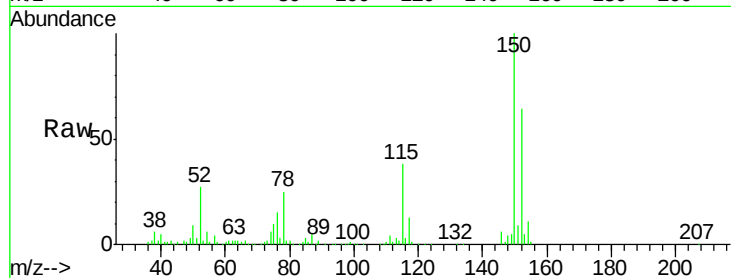
Tgt Ion:152 Resp: 142154

Ion Ratio Lower Upper

152 100

150 156.6 125.8 188.6

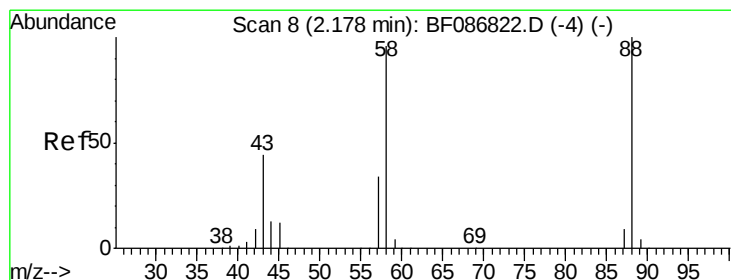
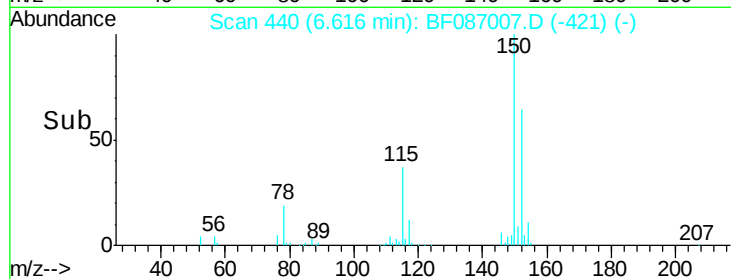
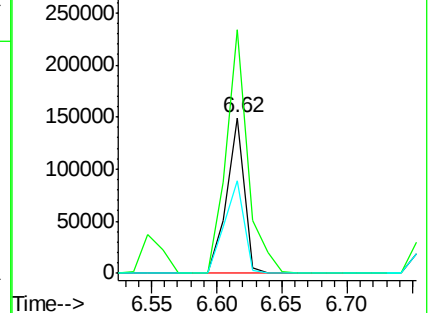
115 59.3 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 53.00 ng

RT: 2.25 min Scan# 58

Delta R.T. 0.07 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

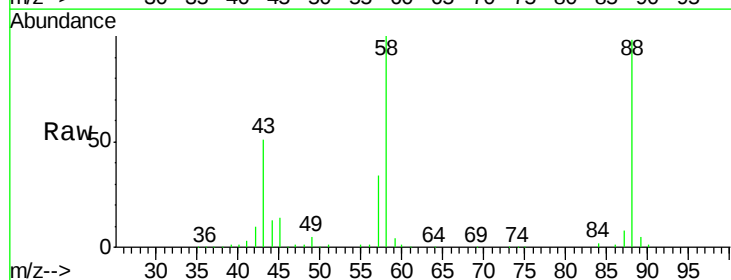
Tgt Ion: 88 Resp: 218402

Ion Ratio Lower Upper

88 100

58 98.8 59.6 89.4#

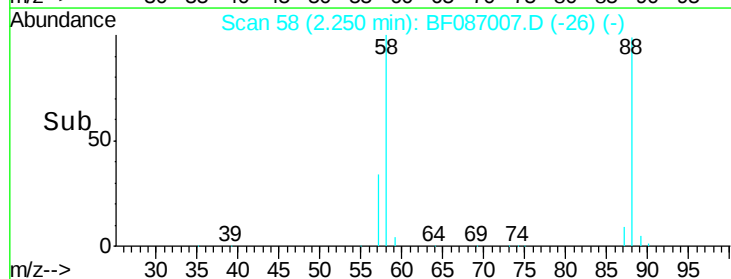
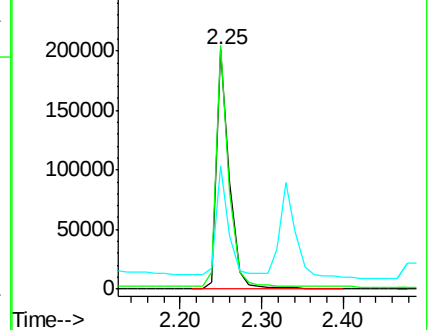
43 42.8 21.8 32.6#

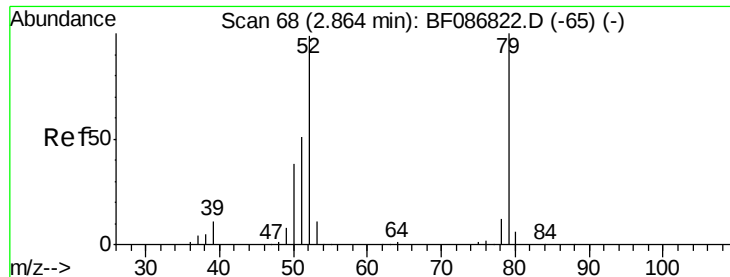


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 2.43 ng

RT: 2.98 min Scan# 122

Delta R.T. 0.12 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Instrument :

BNA_F

ClientSampleId :

WC-2MSD

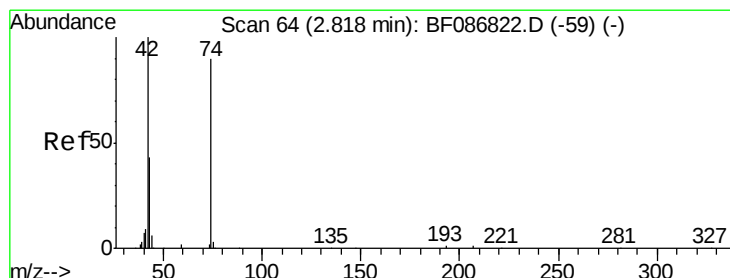
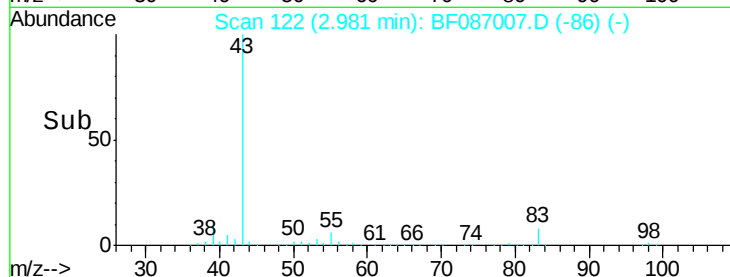
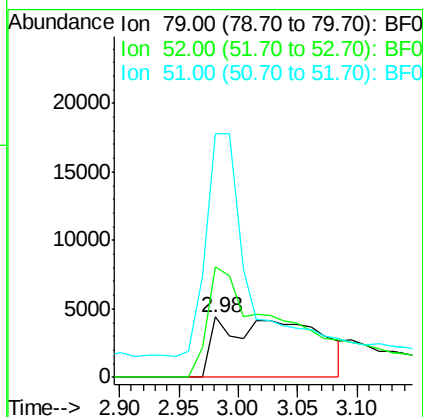
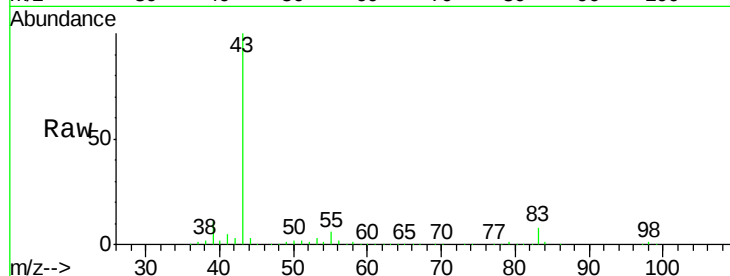
Tgt Ion: 79 Resp: 24462

Ion Ratio Lower Upper

79 100

52 182.6 55.9 83.9#

51 402.6 28.1 42.1#



#4

n-Nitrosodimethylamine

Concen: 28.62 ng

RT: 2.80 min Scan# 106

Delta R.T. -0.02 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

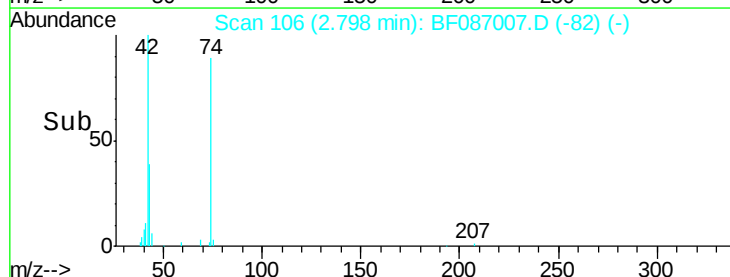
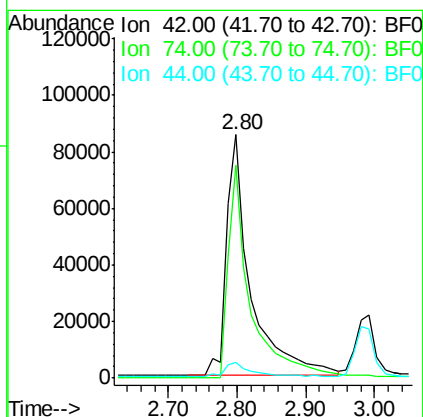
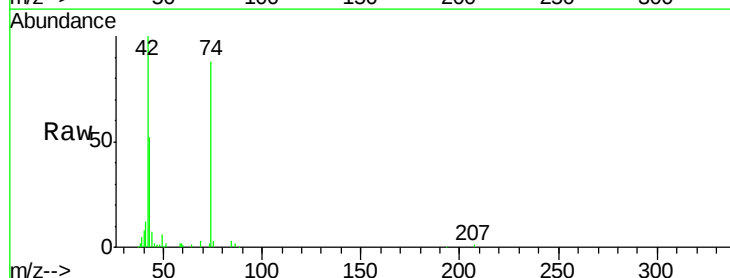
Tgt Ion: 42 Resp: 209104

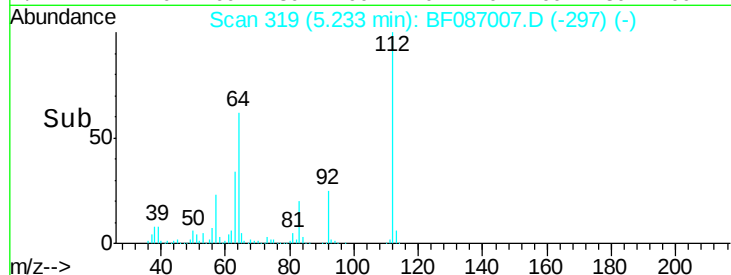
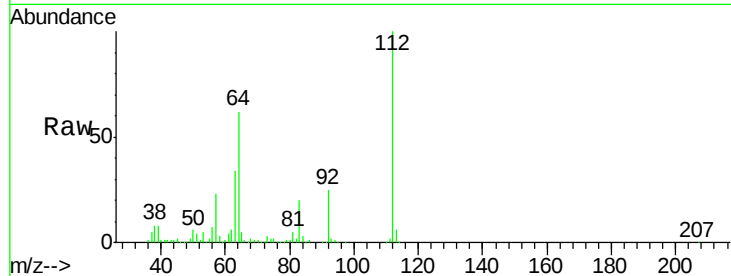
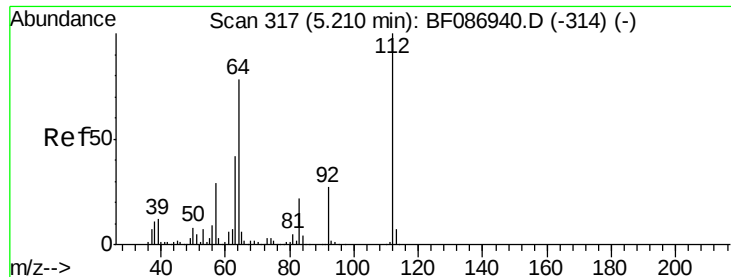
Ion Ratio Lower Upper

42 100

74 87.6 123.4 185.0#

44 6.7 5.8 8.6





#5

2-Fluorophenol

Concen: 132.84 ng

RT: 5.23 min Scan# 319

Delta R.T. -0.05 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Instrument :

BNA_F

ClientSampleId :

WC-2MSD

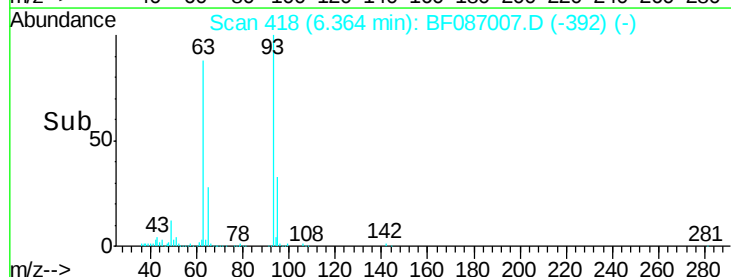
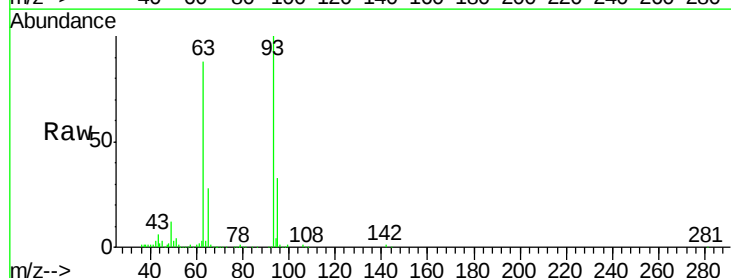
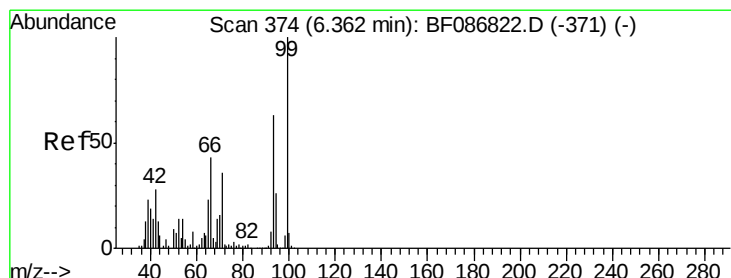
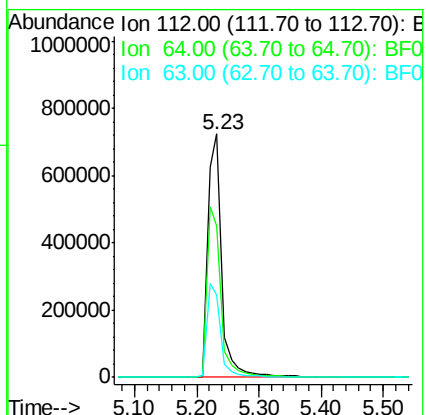
Tgt Ion:112 Resp: 1115042

Ion Ratio Lower Upper

112 100

64 62.2 52.1 78.1

63 33.6 25.7 38.5



#6

Aniline

Concen: 33.29 ng

RT: 6.36 min Scan# 418

Delta R.T. 0.00 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

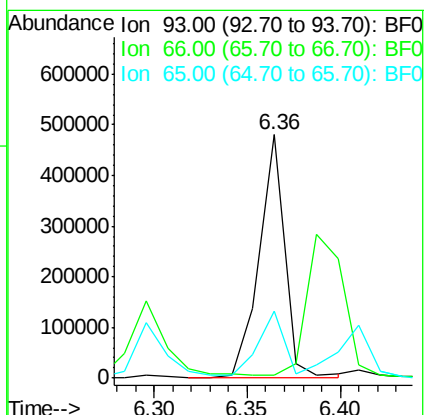
Tgt Ion: 93 Resp: 451712

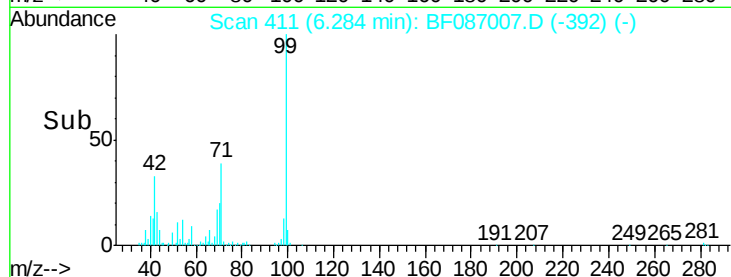
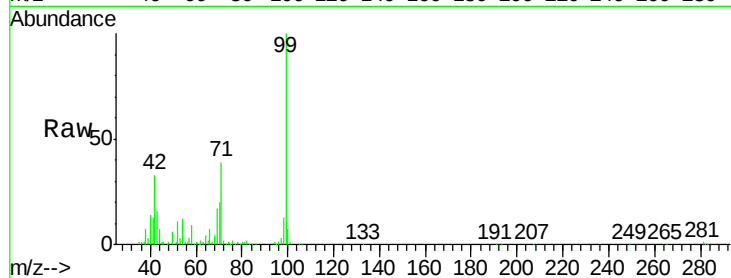
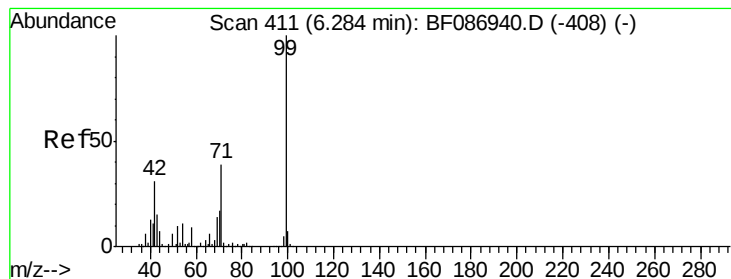
Ion Ratio Lower Upper

93 100

66 1.2 39.0 58.6#

65 27.7 20.6 31.0





#7

Phenol-d6

Concen: 78.84 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Instrument :

BNA_F

ClientSampleId :

WC-2MSD

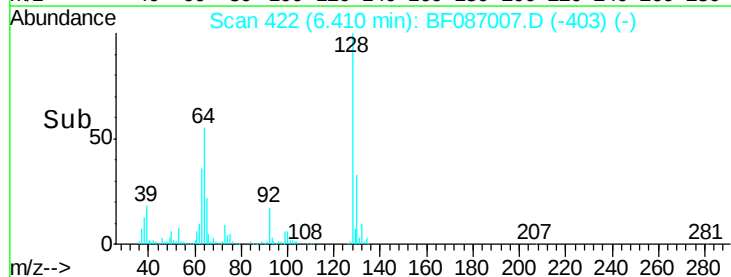
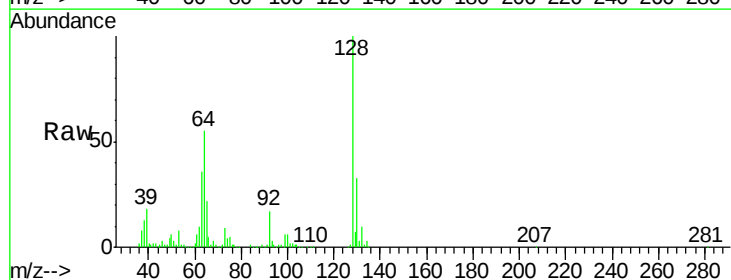
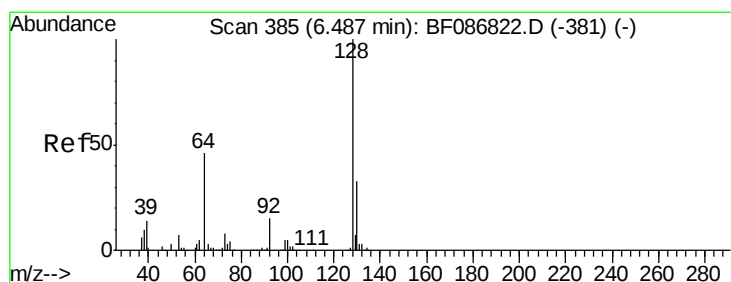
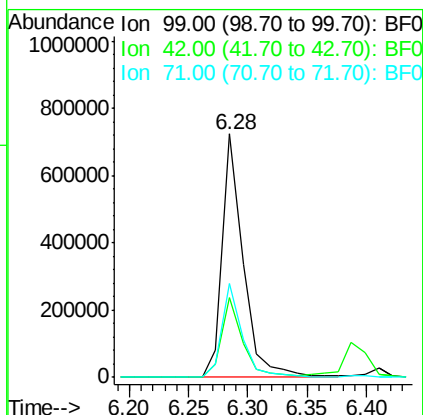
Tgt Ion: 99 Resp: 884426

Ion Ratio Lower Upper

99 100

42 32.6 13.6 20.4#

71 38.5 24.6 36.8#



#8

2-Chlorophenol

Concen: 42.36 ng

RT: 6.41 min Scan# 422

Delta R.T. -0.08 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

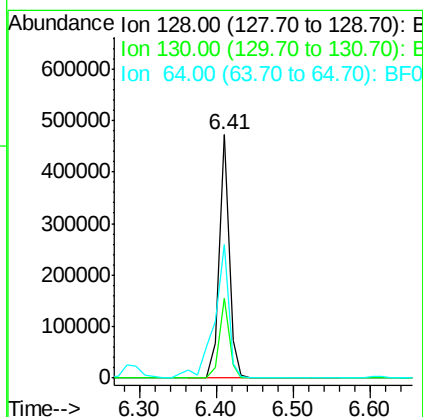
Tgt Ion: 128 Resp: 429047

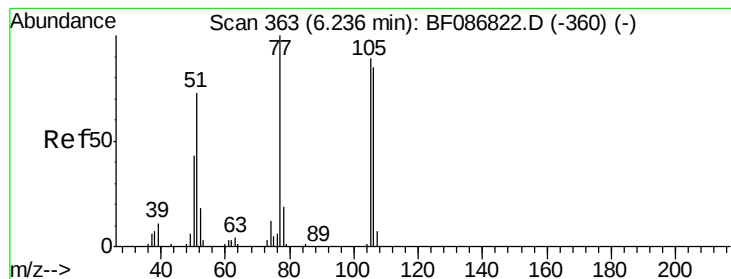
Ion Ratio Lower Upper

128 100

130 32.9 12.5 52.5

64 54.6 27.3 67.3





#9

Benzaldehyde

Concen: 5.43 ng

RT: 6.17 min Scan# 401

Delta R.T. -0.07 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Instrument :

BNA_F

ClientSampled :

WC-2MSD

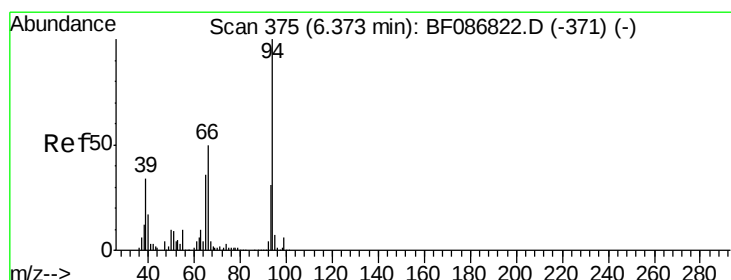
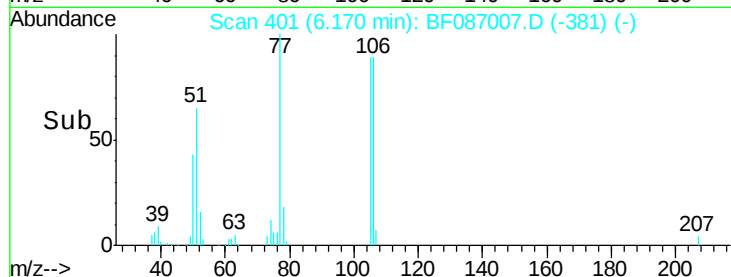
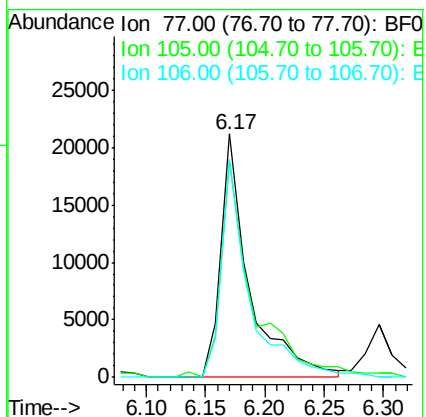
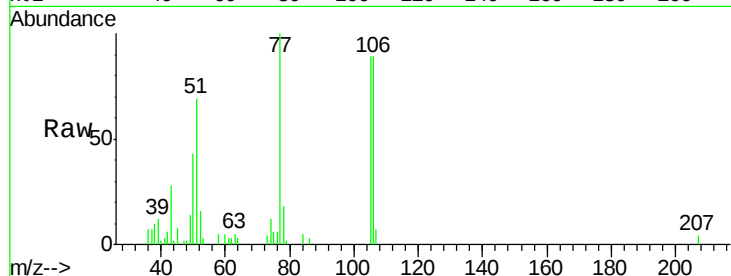
Tgt Ion: 77 Resp: 35257

Ion Ratio Lower Upper

77 100

105 89.3 72.7 112.7

106 89.5 70.8 110.8



#10

Phenol

Concen: 28.54 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.08 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

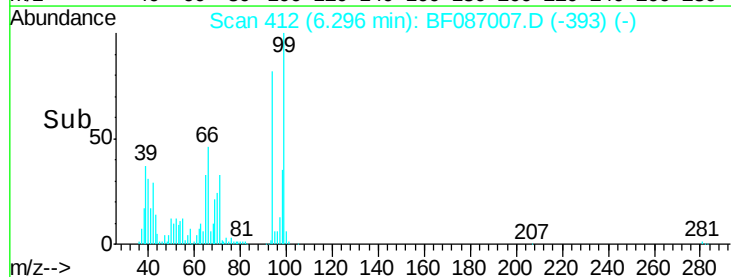
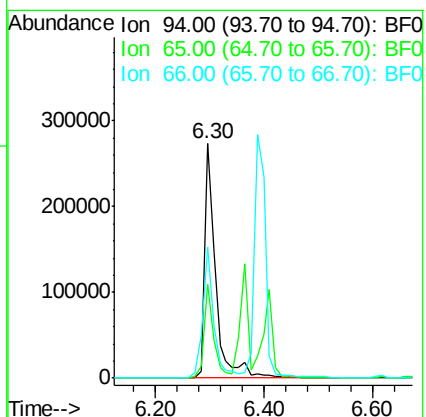
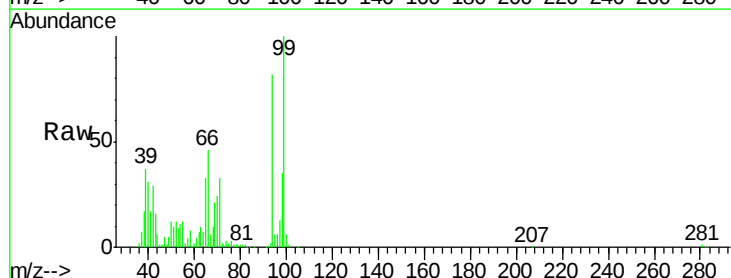
Tgt Ion: 94 Resp: 380506

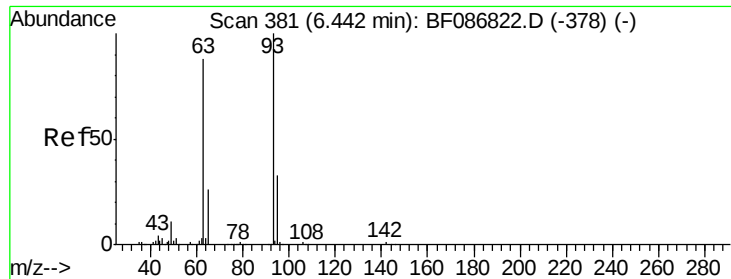
Ion Ratio Lower Upper

94 100

65 39.9 7.2 47.2

66 56.2 14.9 54.9#

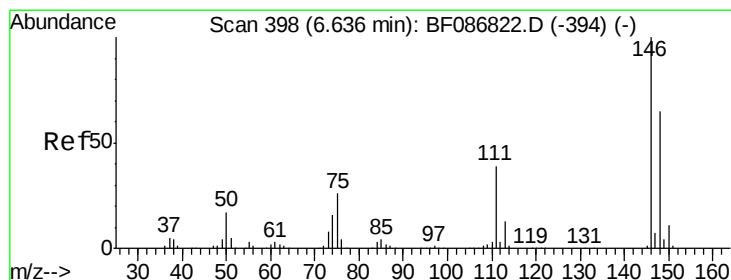
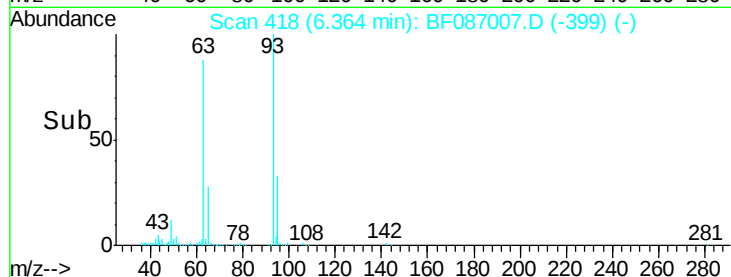
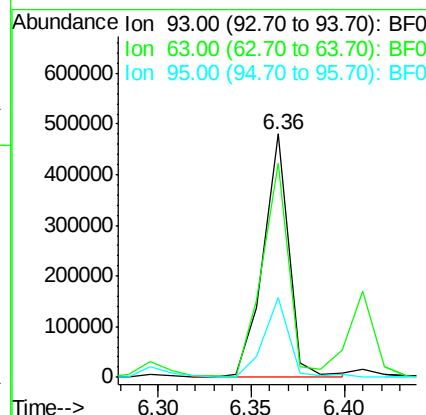
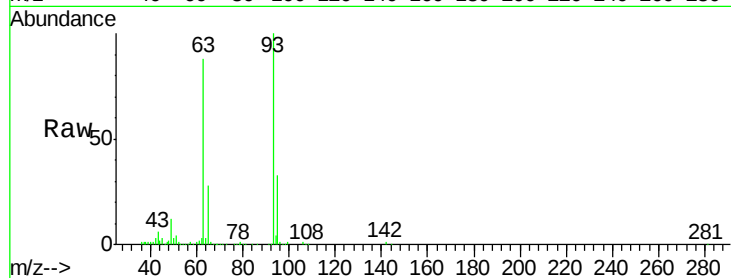




#11
 bis(2-Chloroethyl)ether
 Concen: 43.45 ng
 RT: 6.36 min Scan# 418
 Delta R.T. -0.08 min
 Lab File: BF087007.D
 Acq: 14 May 2016 8:58

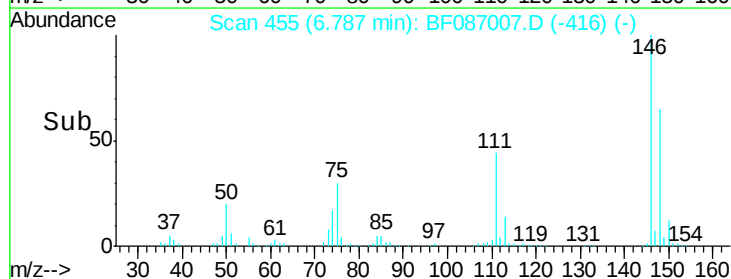
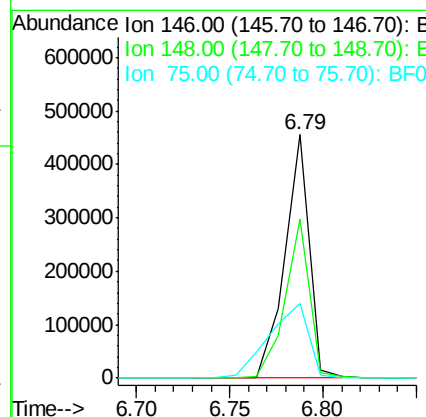
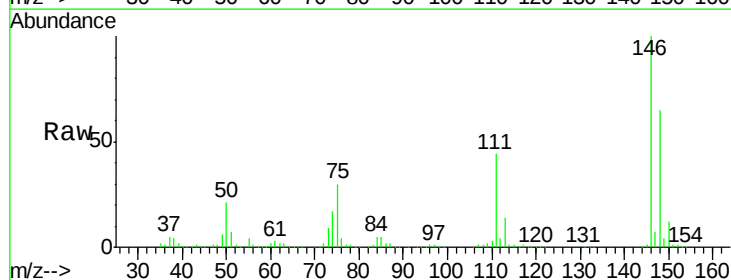
Instrument :
 BNA_F
 ClientSampleId :
 WC-2MSD

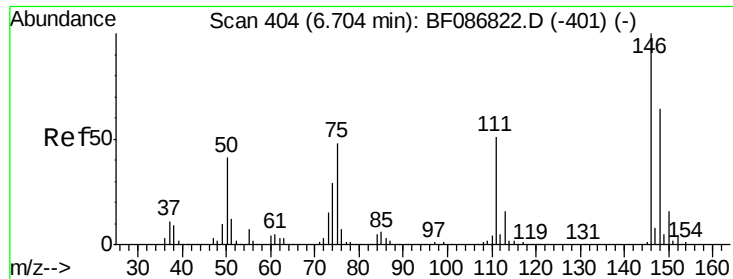
Tgt Ion: 93 Resp: 451712
 Ion Ratio Lower Upper
 93 100
 63 88.2 58.0 98.0
 95 32.8 11.9 51.9



#12
 1,3-Dichlorobenzene
 Concen: 37.87 ng
 RT: 6.79 min Scan# 455
 Delta R.T. 0.15 min
 Lab File: BF087007.D
 Acq: 14 May 2016 8:58

Tgt Ion: 146 Resp: 415099
 Ion Ratio Lower Upper
 146 100
 148 65.2 52.4 78.6
 75 30.4 22.8 34.2

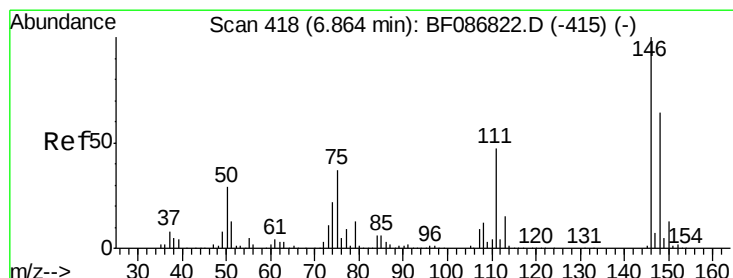
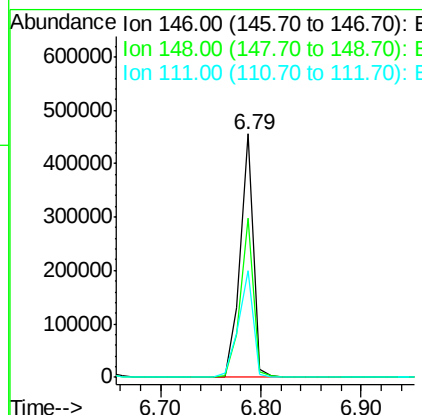
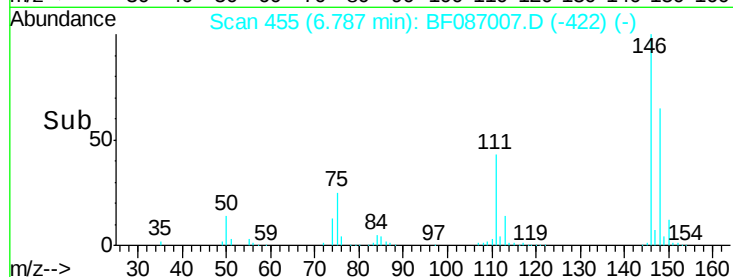
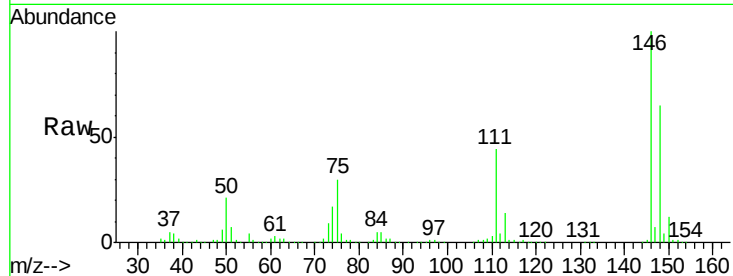




#13
 1,4-Dichlorobenzene
 Concen: 37.39 ng
 RT: 6.79 min Scan# 455
 Delta R.T. 0.08 min
 Lab File: BF087007.D
 Acq: 14 May 2016 8:58

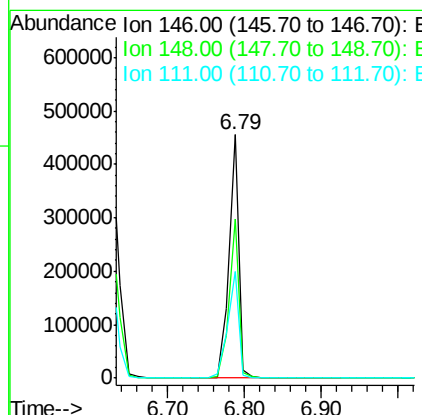
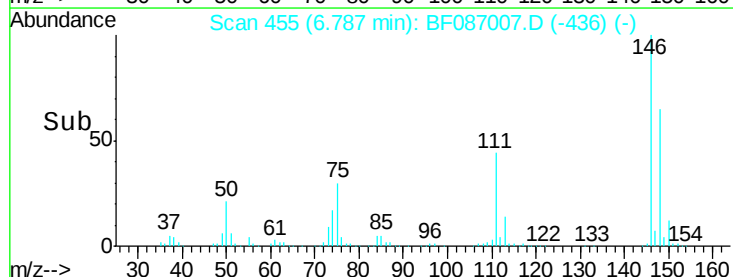
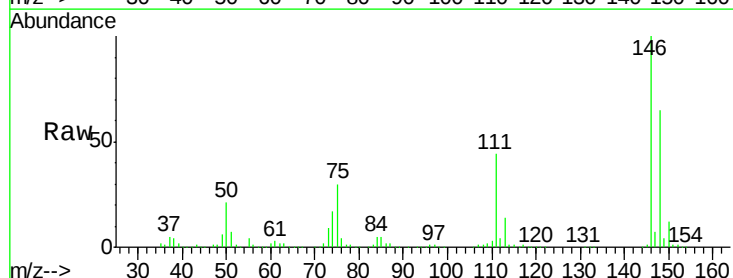
Instrument :
 BNA_F
 ClientSampleId :
 WC-2MSD

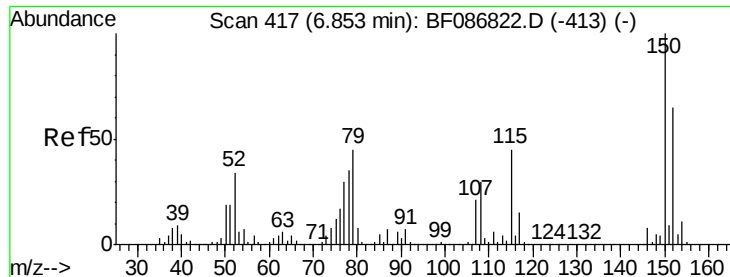
Tgt Ion:146 Resp: 417912
 Ion Ratio Lower Upper
 146 100
 148 65.2 52.2 78.4
 111 43.6 30.7 46.1



#14
 1,2-Dichlorobenzene
 Concen: 43.24 ng
 RT: 6.79 min Scan# 455
 Delta R.T. -0.08 min
 Lab File: BF087007.D
 Acq: 14 May 2016 8:58

Tgt Ion:146 Resp: 421295
 Ion Ratio Lower Upper
 146 100
 148 65.2 51.0 76.6
 111 43.6 36.2 54.4

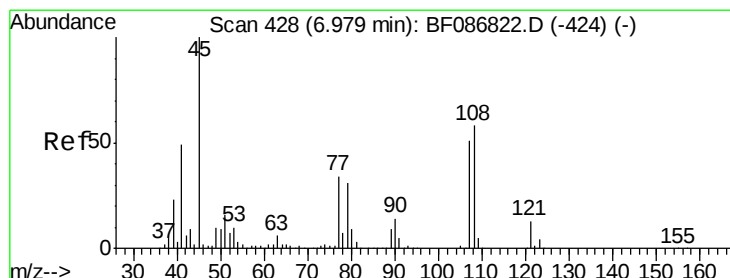
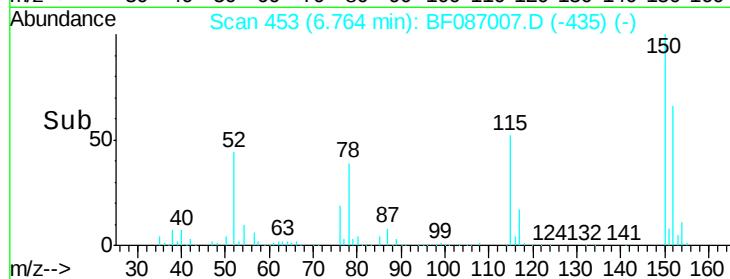
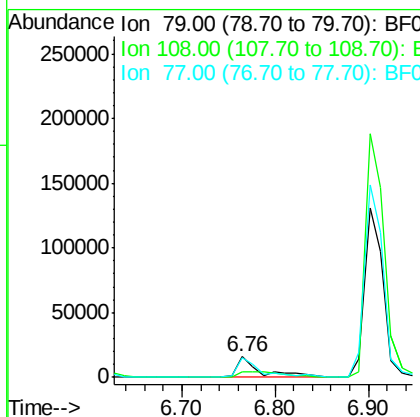
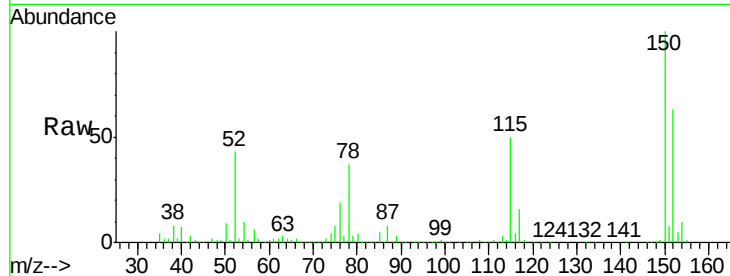




#15
Benzyl Alcohol
Concen: 3.84 ng
RT: 6.76 min Scan# 453
Delta R.T. -0.09 min
Lab File: BF087007.D
Acq: 14 May 2016 8:58

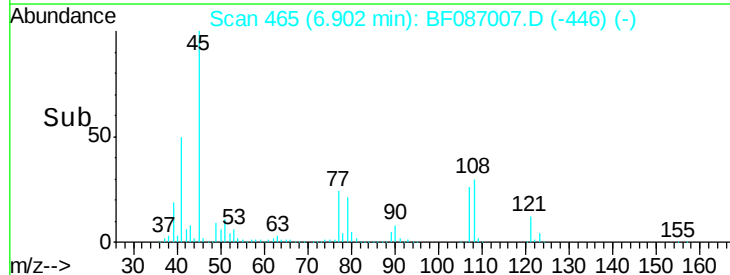
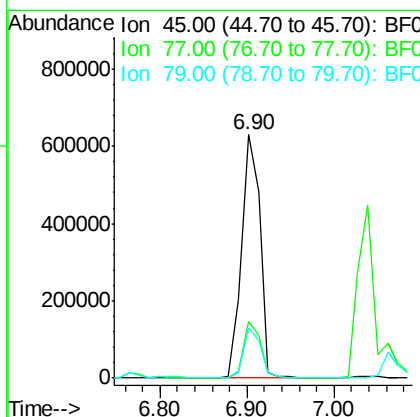
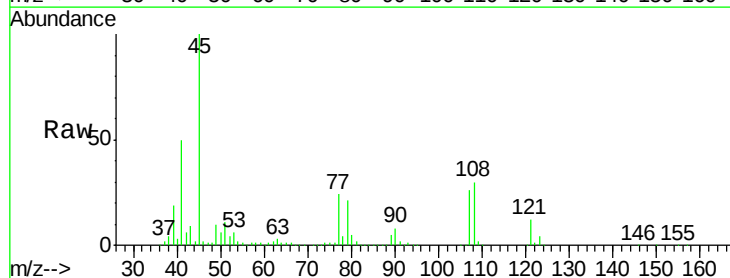
Instrument :
BNA_F
ClientSampleId :
WC-2MSD

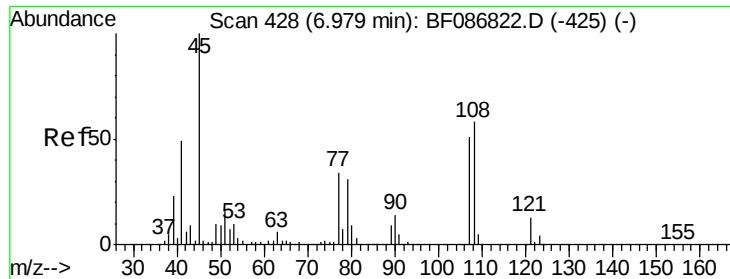
Tgt Ion: 79 Resp: 29730
Ion Ratio Lower Upper
79 100
108 28.1 68.4 102.6#
77 98.2 50.6 76.0#



#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.43 ng
RT: 6.90 min Scan# 465
Delta R.T. -0.08 min
Lab File: BF087007.D
Acq: 14 May 2016 8:58

Tgt Ion: 45 Resp: 913964
Ion Ratio Lower Upper
45 100
77 23.5 0.0 36.4
79 20.8 0.0 33.4





#17

2-Methylphenol

Concen: 29.21 ng

RT: 6.90 min Scan# 465

Delta R.T. -0.08 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

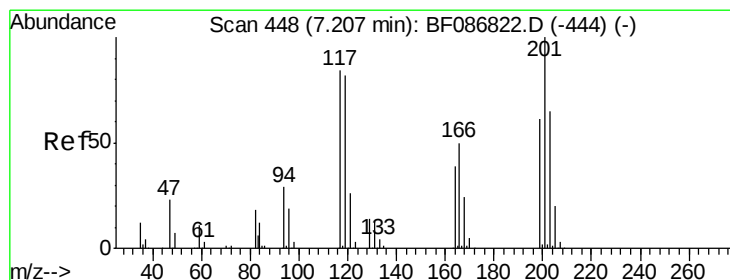
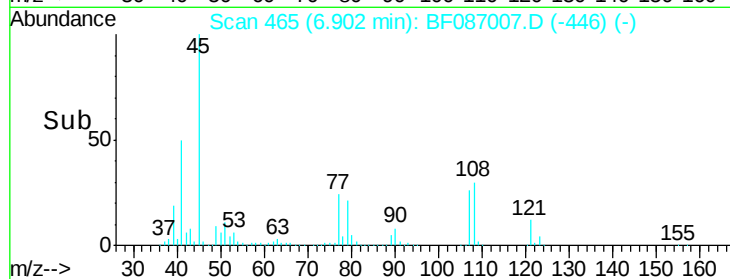
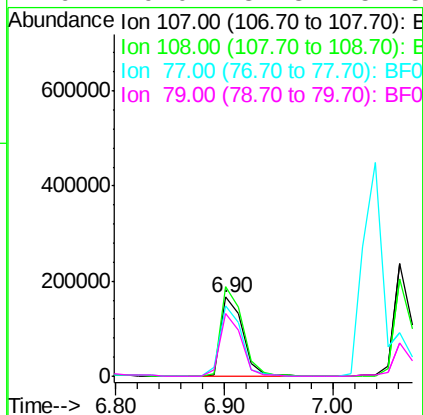
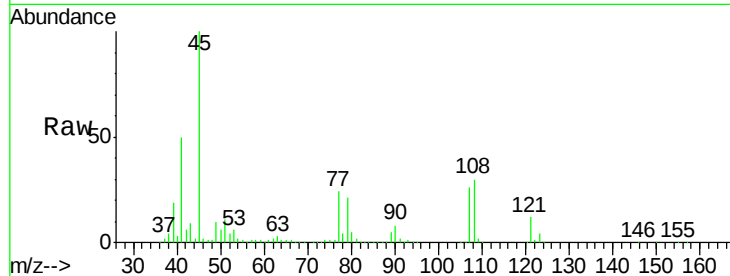
Instrument :

BNA_F

ClientSampleId :

WC-2MSD

Tgt Ion:	107	Resp:	235387
Ion Ratio	Lower	Upper	
107	100		
108	113.5	93.7	140.5
77	89.5	33.4	50.0#
79	79.0	34.3	51.5#



#18

Hexachloroethane

Concen: 40.37 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.09 min

Lab File: BF087007.D

Acq: 14 May 2016 8:58

Tgt Ion:	117	Resp:	169774
Ion Ratio	Lower	Upper	
117	100		
119	97.2	76.5	114.7
201	77.4	63.0	94.6

