

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072016\
 Data File : BF089154.D
 Acq On : 21 Jul 2016 2:22
 Operator : UM/SJ
 Sample : H4112-07MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KSB-05-12.0-14.0MSD

Quant Time: Jul 21 03:25:34 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 20 19:03:15 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	54487	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	207012	20.00	ng	0.01
38) Acenaphthene-d10	9.64	164	102779	20.00	ng	0.01
63) Phenanthrene-d10	11.11	188	197948	20.00	ng	0.00
75) Chrysene-d12	13.73	240	145202	20.00	ng	0.00
86) Perylene-d12	15.07	264	117067	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.20	112	427004	119.19	ng	0.01
7) Phenol-d6	6.27	99	565084	122.31	ng	0.00
23) Nitrobenzene-d5	7.18	82	323813	83.11	ng	0.00
41) 2,4,6-Tribromophenol	10.43	330	125482	135.60	ng	0.01
44) 2-Fluorobiphenyl	8.97	172	560679	75.16	ng	0.00
78) Terphenyl-d14	12.68	244	529266	79.06	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.12	88	50843	32.68	ng	87
3) Pyridine	2.74	79	132360	33.49	ng	99
4) n-Nitrosodimethylamine	2.72	42	65187	39.19	ng	99
6) Aniline	6.27	93	137231	21.98	ng	# 52
8) 2-Chlorophenol	6.40	128	162950	40.99	ng	95
9) Benzaldehyde	6.15	77	49778	17.81	ng	# 26
10) Phenol	6.28	94	226847	42.62	ng	95
11) bis(2-Chloroethyl)ether	6.35	93	171965	43.02	ng	96
12) 1,3-Dichlorobenzene	6.62	146	160062	36.46	ng	99
13) 1,4-Dichlorobenzene	6.62	146	161890	36.62	ng	100
14) 1,2-Dichlorobenzene	6.78	146	157191	37.71	ng	97
15) Benzyl Alcohol	6.76	79	145912	43.13	ng	98
16) 2,2'-oxybis(1-Chloropropan	6.90	45	168777	37.06	ng	# 61
17) 2-Methylphenol	6.89	107	132467	42.30	ng	97
18) Hexachloroethane	7.11	117	85405	51.39	ng	# 16
19) n-Nitroso-di-n-propylamine	7.04	70	125863	41.65	ng	96
20) 3+4-Methylphenols	7.05	107	178293	41.94	ng	96
22) Acetophenone	7.03	105	245140	44.35	ng	# 97
24) Nitrobenzene	7.20	77	199234	48.49	ng	94
25) Isophorone	7.44	82	340094	47.36	ng	# 95
26) 2-Nitrophenol	7.52	139	83450	43.54	ng	# 82
27) 2,4-Dimethylphenol	7.56	122	148860	46.10	ng	98
28) bis(2-Chloroethoxy)methane	7.66	93	201424	44.85	ng	# 90
29) 2,4-Dichlorophenol	7.76	162	128419	44.13	ng	94
30) 1,2,4-Trichlorobenzene	7.84	180	133044	41.30	ng	98
31) Naphthalene	7.92	128	493523	44.17	ng	98
32) Benzoic acid	7.68	122	14417	5.81	ng	# 1
33) 4-Chloroaniline	7.98	127	72575	15.45	ng	# 88
34) Hexachlorobutadiene	8.03	225	66460	37.07	ng	98
35) Caprolactam	8.34	113	79970	88.49	ng	# 53
36) 4-Chloro-3-methylphenol	8.48	107	156249	44.57	ng	99
37) 2-Methylnaphthalene	8.60	142	353801	49.65	ng	# 95
39) 1,2,4,5-Tetrachlorobenzene	8.78	216	122809	32.15	ng	96
40) Hexachlorocyclopentadiene	8.76	237	81748	65.62	ng	99

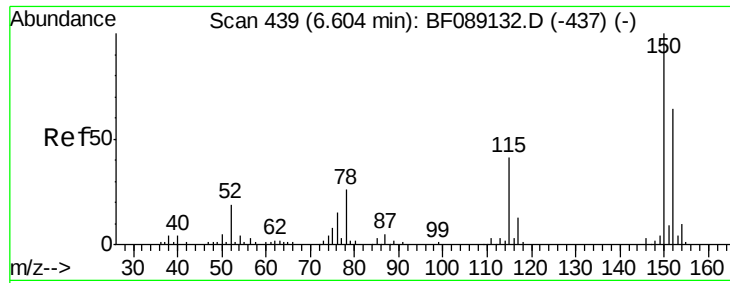
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.89	196	81843	38.28	ng	97
43) 2,4,5-Trichlorophenol	8.95	196	82832	38.59	ng #	79
45) 1,1'-Biphenyl	9.07	154	355744	38.43	ng	97
46) 2-Chloronaphthalene	9.10	162	274408	39.01	ng	97
47) 2-Nitroaniline	9.20	65	99336	41.17	ng #	85
48) Acenaphthylene	9.51	152	444767	40.22	ng	97
49) Dimethylphthalate	9.38	163	474524	60.17	ng	98
50) 2,6-Dinitrotoluene	9.45	165	67291	37.79	ng	87
51) Acenaphthene	9.68	154	276735	42.31	ng	99
52) 3-Nitroaniline	9.61	138	60543	28.63	ng #	94
53) 2,4-Dinitrophenol	9.72	184	19901	28.11	ng	92
54) Dibenzofuran	9.85	168	407777	46.13	ng #	95
55) 4-Nitrophenol	9.79	139	95609	74.73	ng #	81
56) 2,4-Dinitrotoluene	9.85	165	110526	48.19	ng #	79
57) Fluorene	10.18	166	314576	41.93	ng #	98
58) 2,3,4,6-Tetrachlorophenol	9.98	232	71743	46.54	ng #	98
59) Diethylphthalate	10.08	149	348222	44.53	ng	98
60) 4-Chlorophenyl-phenylether	10.18	204	137255	40.07	ng #	78
61) 4-Nitroaniline	10.22	138	67428	32.77	ng	91
62) Azobenzene	10.34	77	385576	45.36	ng	87
64) 4,6-Dinitro-2-methylphenol	10.25	198	38525	33.43	ng #	30
65) n-Nitrosodiphenylamine	10.31	169	329834	49.86	ng	96
66) 4-Bromophenyl-phenylether	10.66	248	78379	40.01	ng #	86
67) Hexachlorobenzene	10.73	284	77690	36.87	ng #	61
68) Atrazine	10.83	200	83271	40.25	ng	98
69) Pentachlorophenol	10.92	266	85283	87.74	ng	98
70) Phenanthrene	11.14	178	495882	45.67	ng	100
71) Anthracene	11.19	178	505333	44.77	ng	99
72) Carbazole	11.35	167	435069	43.88	ng	98
73) Di-n-butylphthalate	11.68	149	506101	41.27	ng	99
74) Fluoranthene	12.31	202	441965	38.72	ng	100
76) Benzidine	12.44	184	229925	46.06	ng	98
77) Pyrene	12.54	202	503655	42.00	ng	99
79) Butylbenzylphthalate	13.16	149	229670	45.28	ng	95
80) Benzo(a)anthracene	13.71	228	368015	39.79	ng	100
81) 3,3'-Dichlorobenzidine	13.69	252	73036	23.81	ng #	96
82) Chrysene	13.75	228	331572	37.54	ng	99
83) Bis(2-ethylhexyl)phthalate	13.73	149	287433	42.72	ng	98
84) Di-n-octyl phthalate	14.33	149	458956	41.34	ng	99
85) Indeno(1,2,3-cd)pyrene	16.30	276	276510	43.10	ng	100
87) Benzo(b)fluoranthene	14.71	252	591876	69.80	ng	97
88) Benzo(k)fluoranthene	14.71	252	591876	97.62	ng #	96
89) Benzo(a)pyrene	15.02	252	270395	41.08	ng	98
90) Dibenzo(a,h)anthracene	16.31	278	230316	44.31	ng #	94
91) Benzo(g,h,i)perylene	16.66	276	229095	43.72	ng	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 439

Delta R.T. 0.00 min

Lab File: BF089154.D

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Instrument :

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KSB-05-12.0-14.0MSD

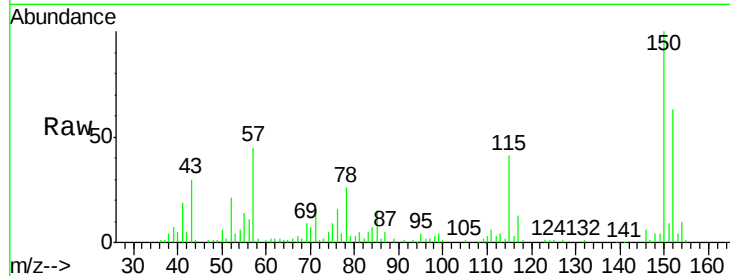
Tgt Ion:152 Resp: 54487

Ion Ratio Lower Upper

152 100

150 158.6 125.1 187.7

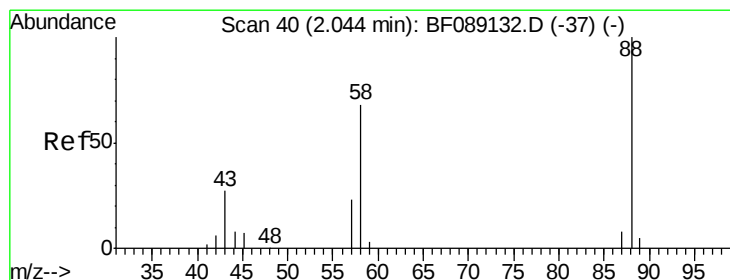
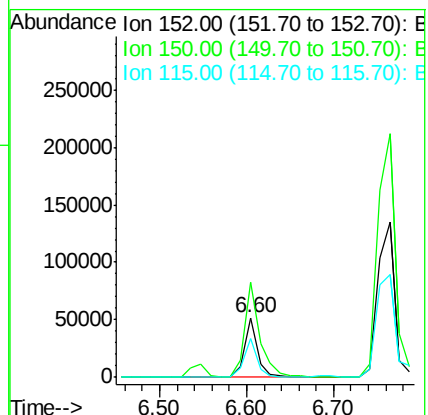
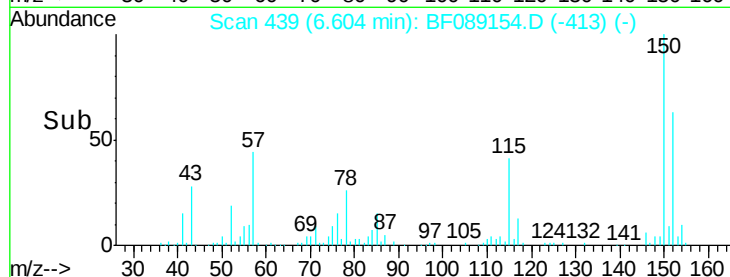
115 64.8 51.1 76.7



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: 32.68 ng

RT: 2.12 min Scan# 47

Delta R.T. 0.08 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

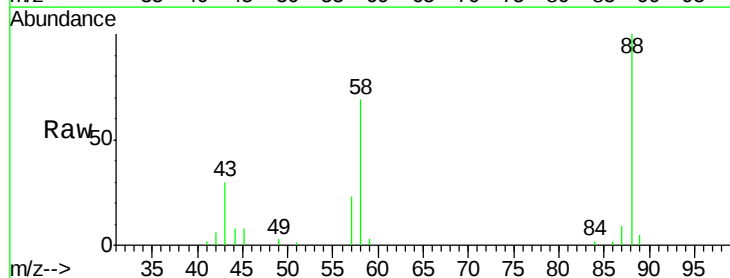
Tgt Ion: 88 Resp: 50843

Ion Ratio Lower Upper

88 100

58 72.4 49.2 73.8

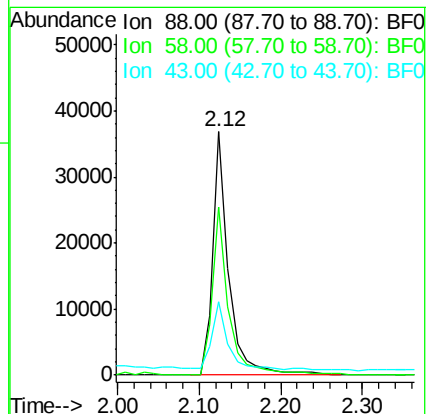
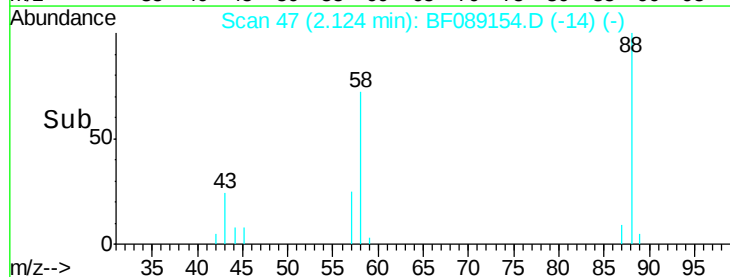
43 30.2 20.6 30.8

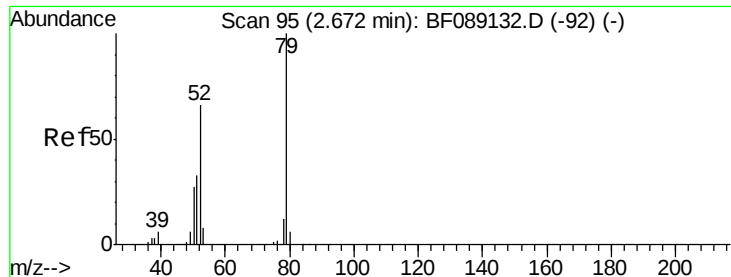


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 33.49 ng

RT: 2.74 min Scan# 101

Delta R.T. 0.07 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

KSB-05-12.0-14.0MSD

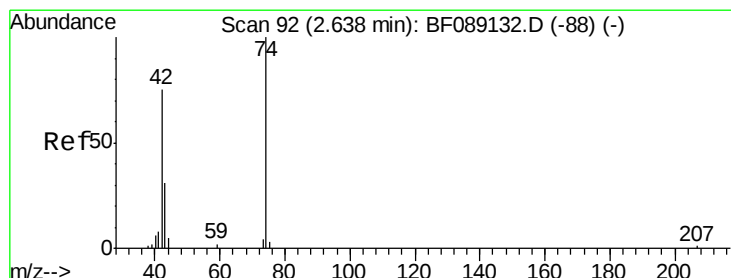
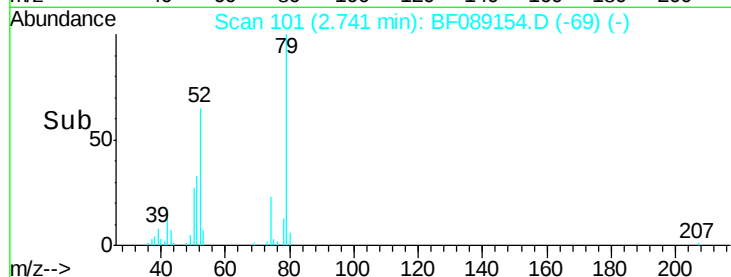
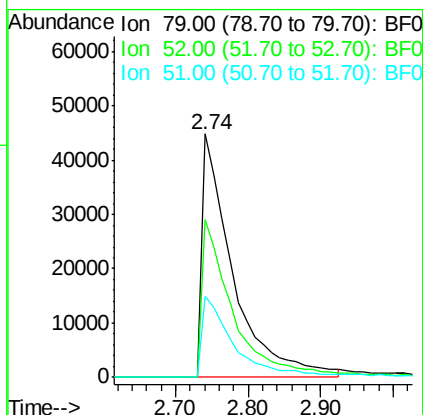
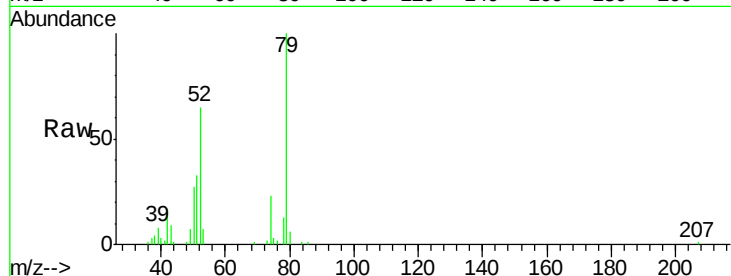
Tgt Ion: 79 Resp: 132360

Ion Ratio Lower Upper

79 100

52 65.0 52.9 79.3

51 33.1 27.0 40.6



#4

n-Nitrosodimethylamine

Concen: 39.19 ng

RT: 2.72 min Scan# 99

Delta R.T. 0.08 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

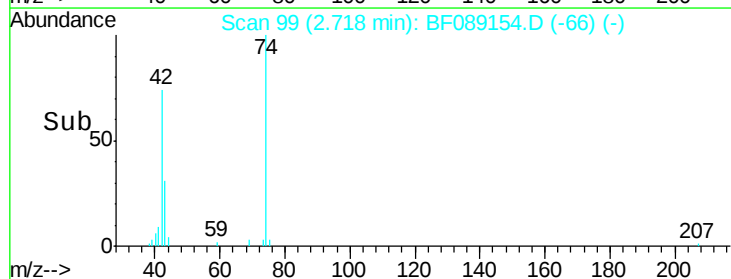
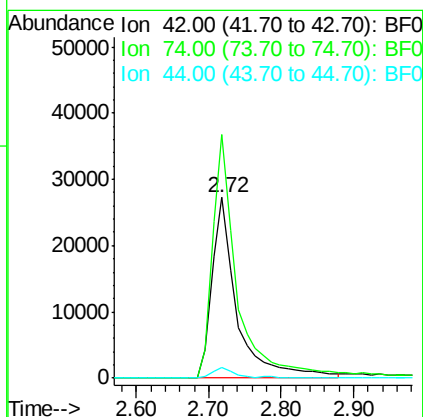
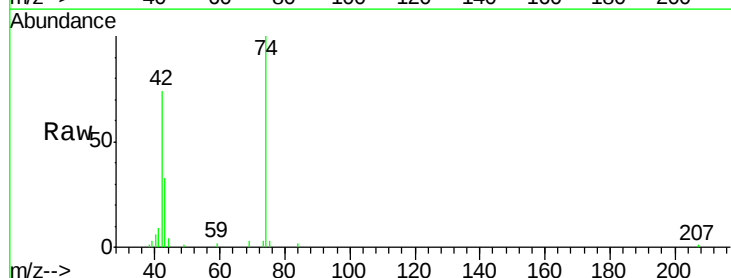
Tgt Ion: 42 Resp: 65187

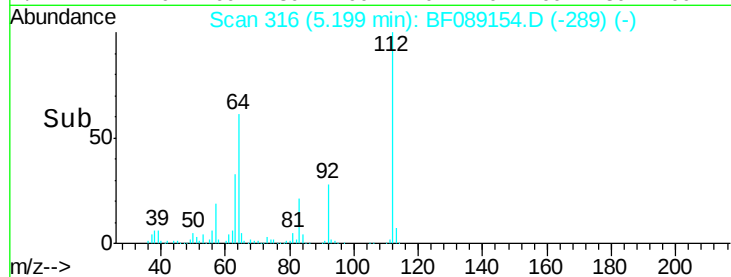
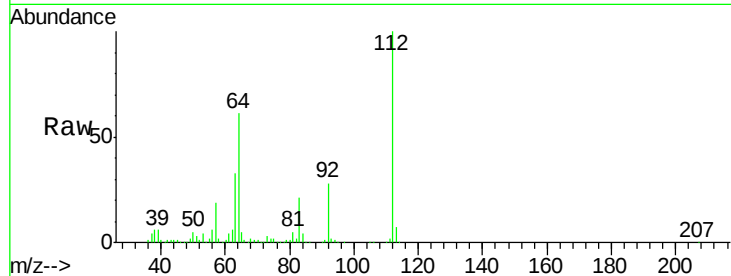
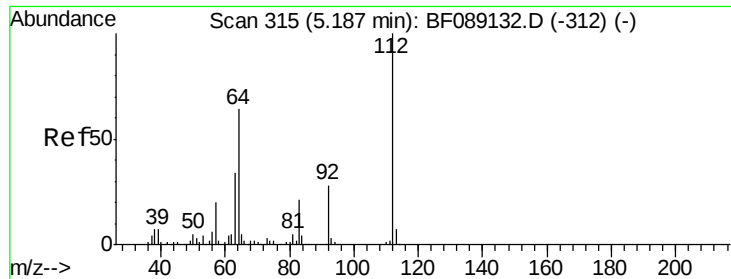
Ion Ratio Lower Upper

42 100

74 134.6 106.4 159.6

44 5.9 5.2 7.8

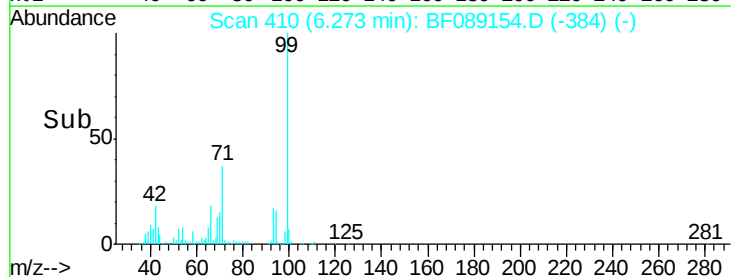
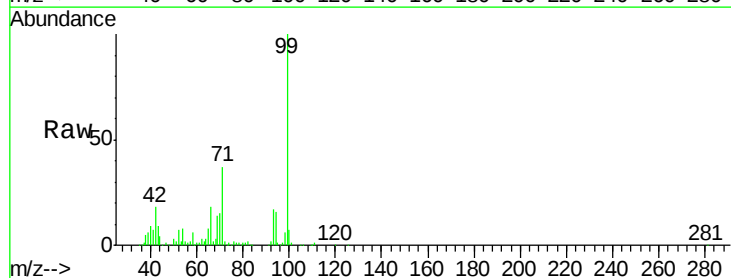
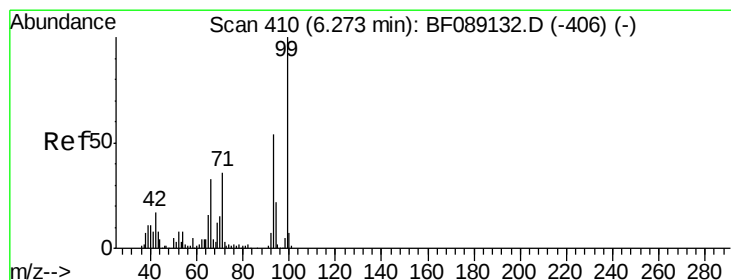
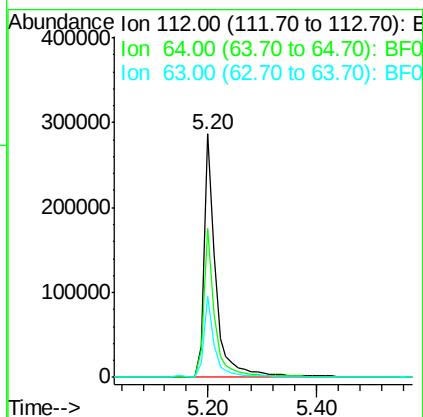




#5
2-Fluorophenol
Concen: 119.19 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.01 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

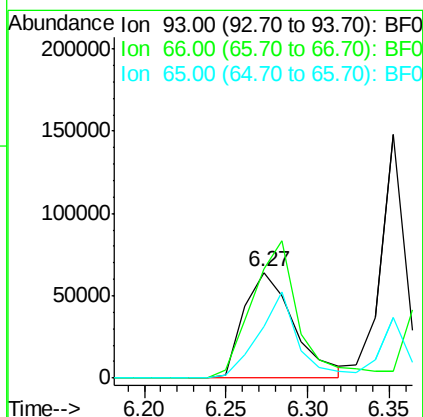
Instrument :
BNA_F
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KSB-05-12.0-14.0MSD

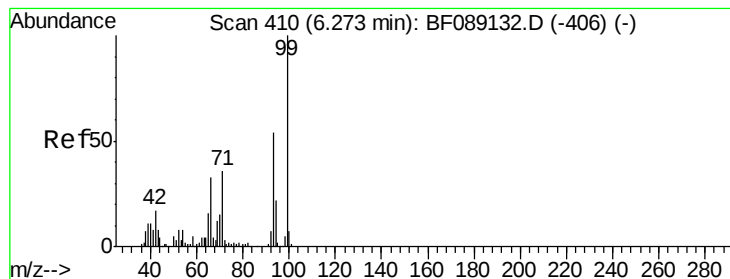
Tgt Ion: 112 Resp: 427004
Ion Ratio Lower Upper
112 100
64 61.4 51.0 76.4
63 33.3 27.3 40.9



#6
Aniline
Concen: 21.98 ng
RT: 6.27 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

Tgt Ion: 93 Resp: 137231
Ion Ratio Lower Upper
93 100
66 102.6 48.9 73.3#
65 48.9 23.9 35.9#





#7

Phenol-d6

Concen: 122.31 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

KSB-05-12.0-14.0MSD

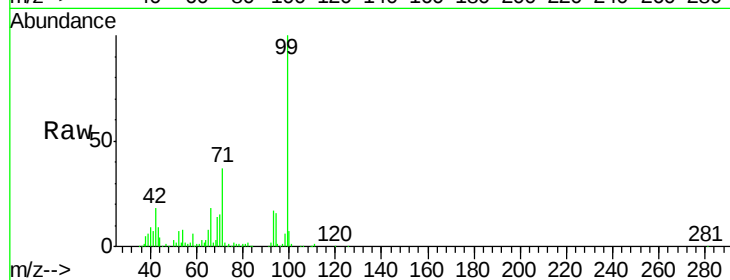
Tgt Ion: 99 Resp: 565084

Ion Ratio Lower Upper

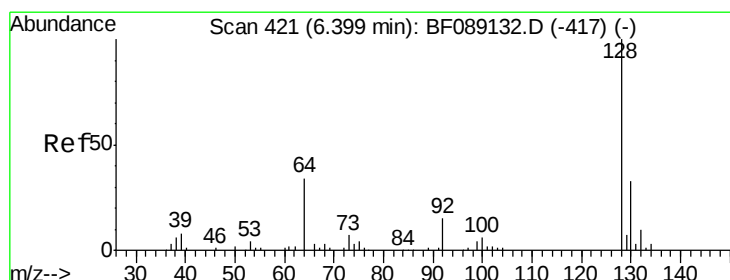
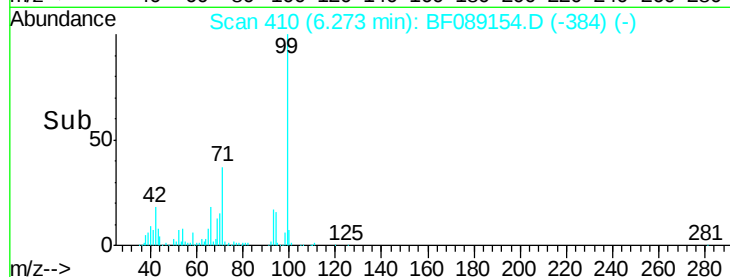
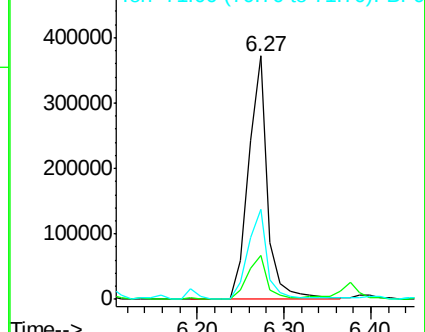
99 100

42 17.9 13.5 20.3

71 37.2 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 40.99 ng

RT: 6.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

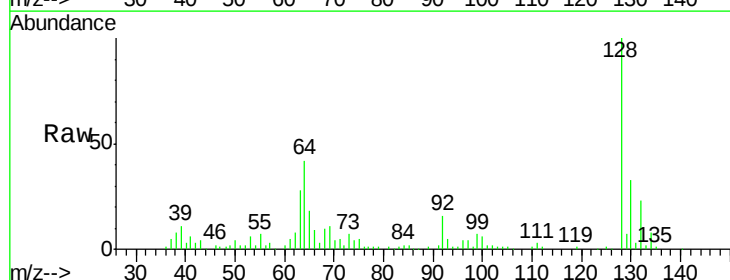
Tgt Ion: 128 Resp: 162950

Ion Ratio Lower Upper

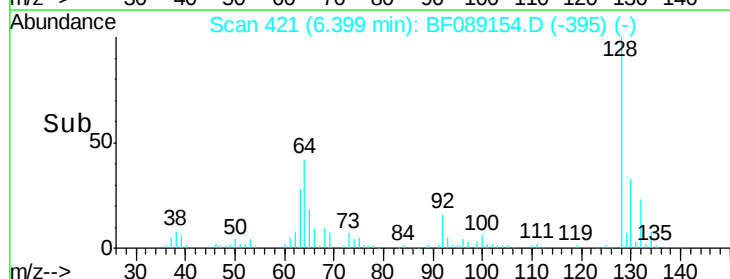
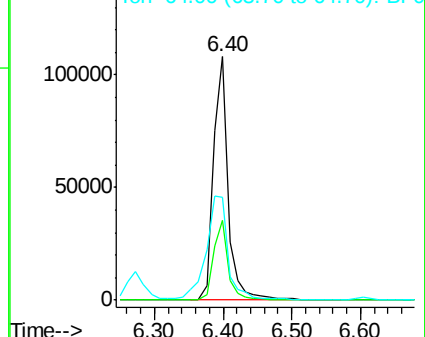
128 100

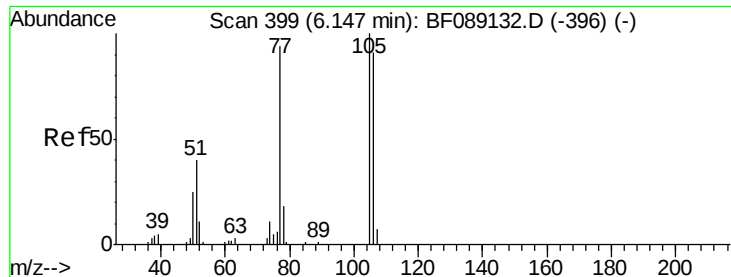
130 33.0 12.6 52.6

64 42.2 17.5 57.5



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 17.81 ng

RT: 6.15 min Scan# 399

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

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ClientSampleId :

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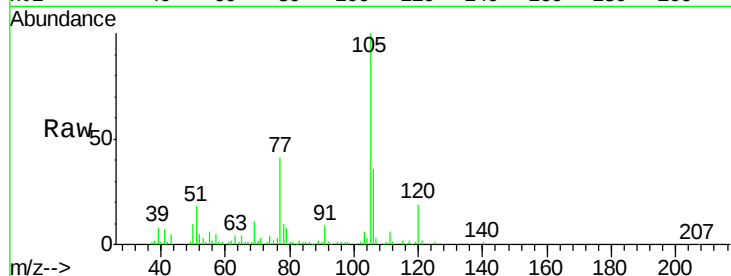
Tgt Ion: 77 Resp: 49778

Ion Ratio Lower Upper

77 100

105 244.6 86.2 126.2#

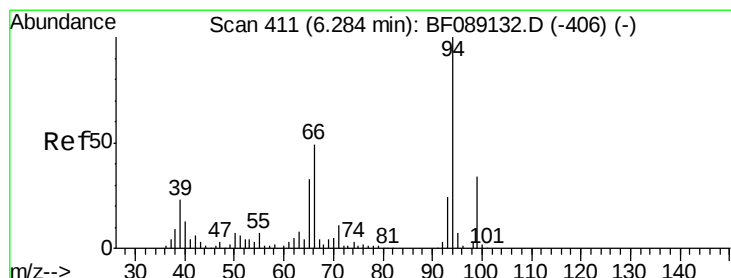
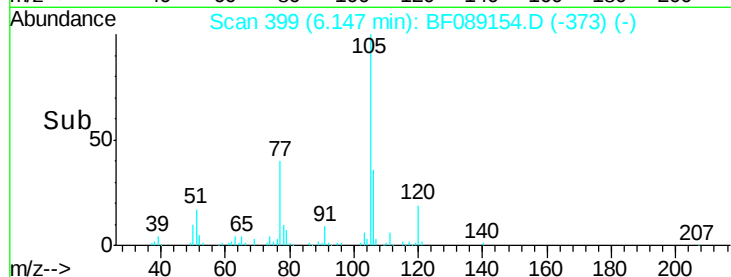
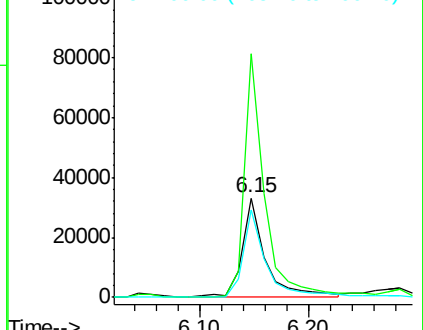
106 87.4 76.3 116.3



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 42.62 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

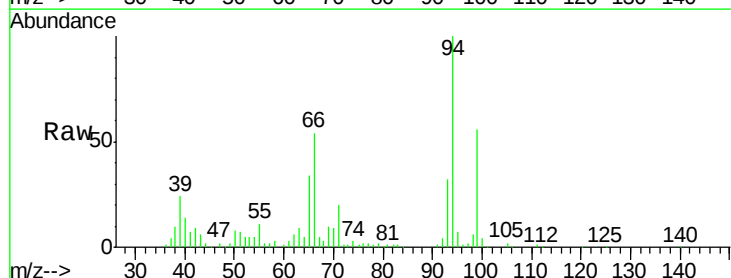
Tgt Ion: 94 Resp: 226847

Ion Ratio Lower Upper

94 100

65 34.1 13.3 53.3

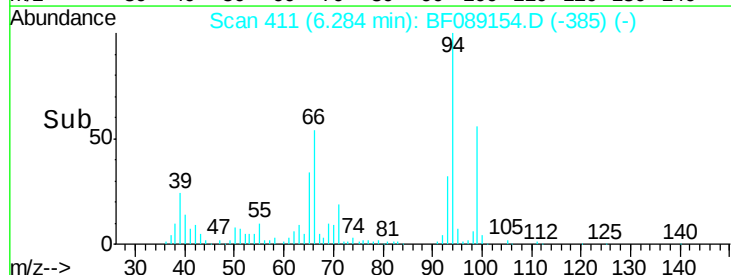
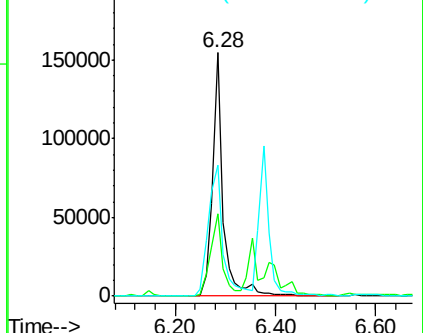
66 54.0 29.3 69.3



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 43.02 ng

RT: 6.35 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

KSB-05-12.0-14.0MSD

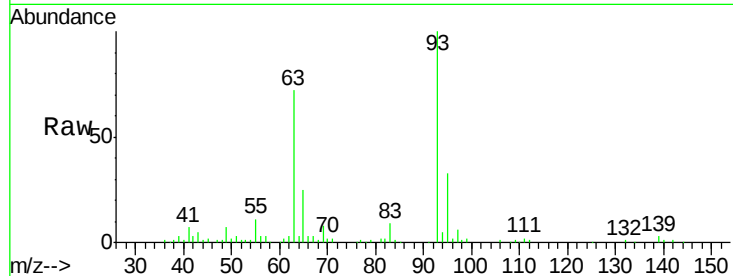
Tgt Ion: 93 Resp: 171965

Ion Ratio Lower Upper

93 100

63 71.9 47.3 87.3

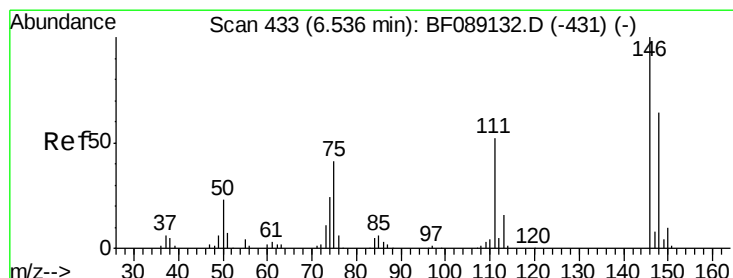
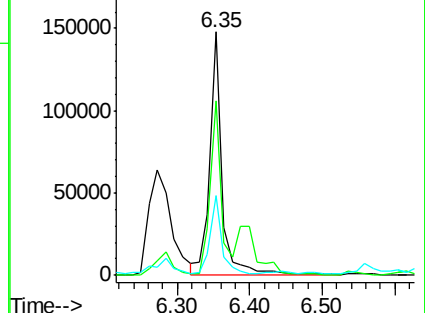
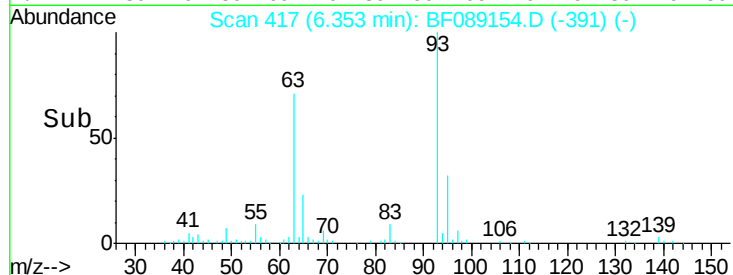
95 32.6 11.8 51.8



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#12

1,3-Dichlorobenzene

Concen: 36.46 ng

RT: 6.62 min Scan# 440

Delta R.T. 0.08 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

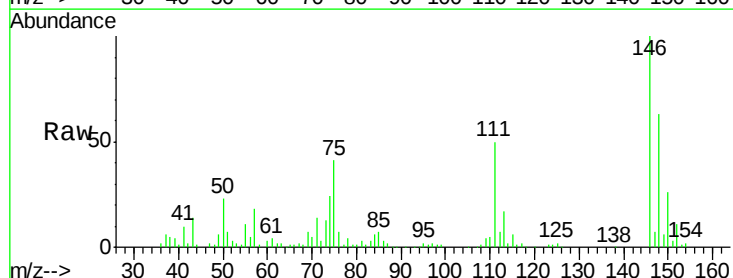
Tgt Ion: 146 Resp: 160062

Ion Ratio Lower Upper

146 100

148 62.6 51.0 76.6

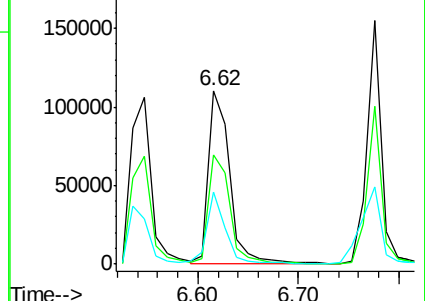
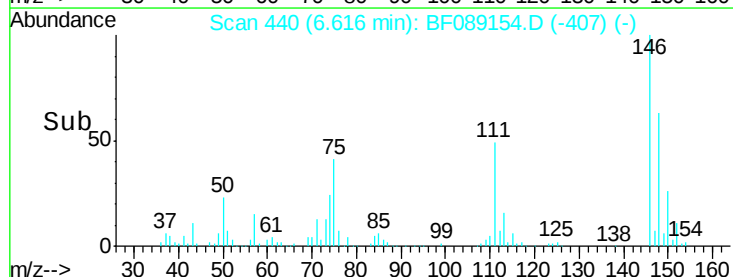
75 41.5 32.5 48.7

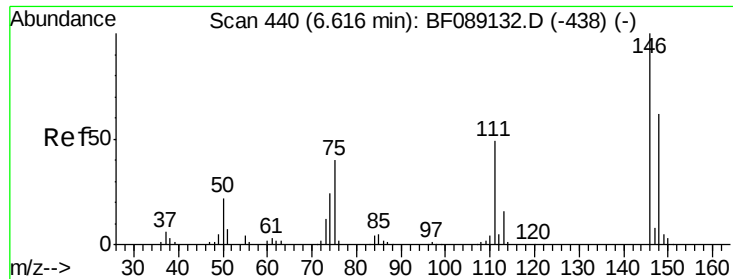


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0

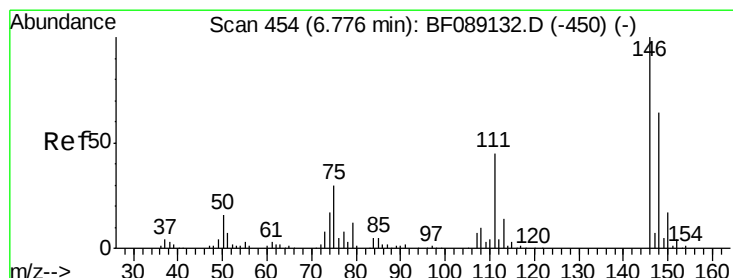
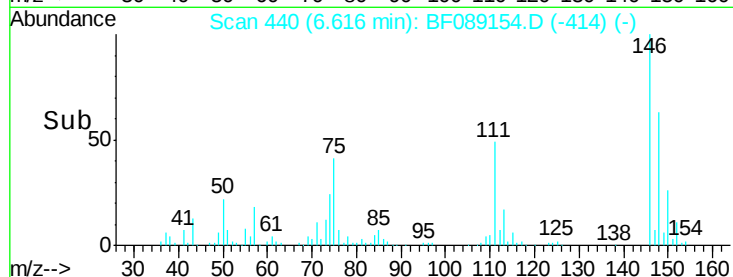
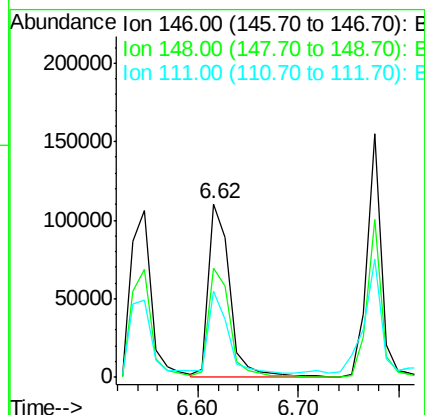
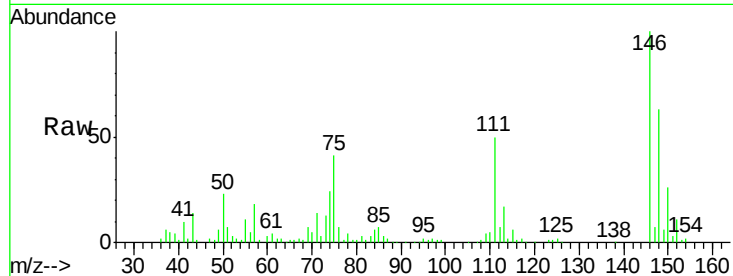




#13
 1,4-Dichlorobenzene
 Concen: 36.62 ng
 RT: 6.62 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: BF089154.D
 Acq: 21 Jul 2016 2:22

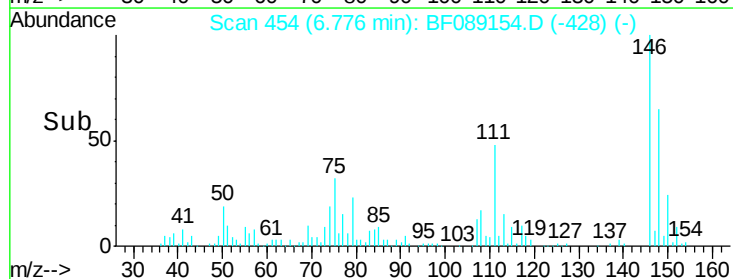
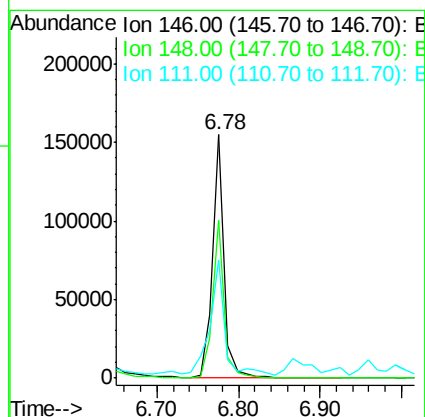
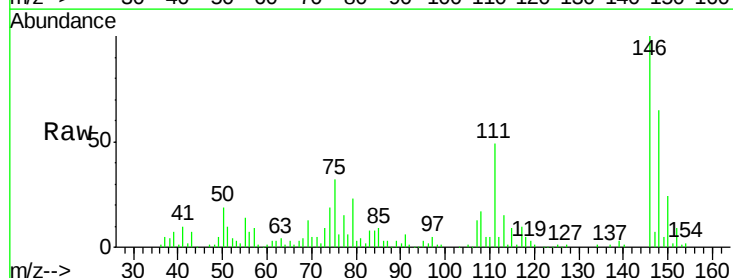
Instrument :
 BNA_F
 ClientSampleId :
 KSB-05-12.0-14.0MSD

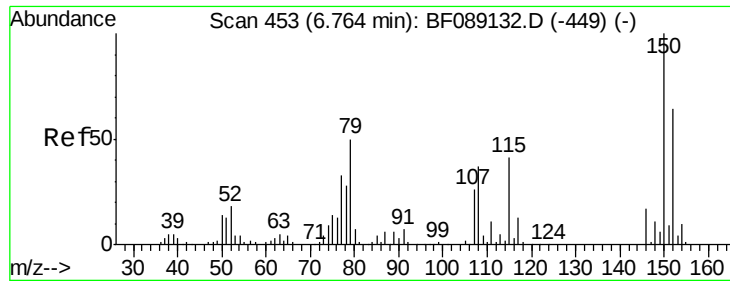
Tgt Ion:146 Resp: 161890
 Ion Ratio Lower Upper
 146 100
 148 62.6 49.9 74.9
 111 49.9 39.8 59.6



#14
 1,2-Dichlorobenzene
 Concen: 37.71 ng
 RT: 6.78 min Scan# 454
 Delta R.T. 0.00 min
 Lab File: BF089154.D
 Acq: 21 Jul 2016 2:22

Tgt Ion:146 Resp: 157191
 Ion Ratio Lower Upper
 146 100
 148 64.8 51.4 77.0
 111 48.7 35.9 53.9





#15

Benzyl Alcohol

Concen: 43.13 ng

RT: 6.76 min Scan# 453

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

KSB-05-12.0-14.0MSD

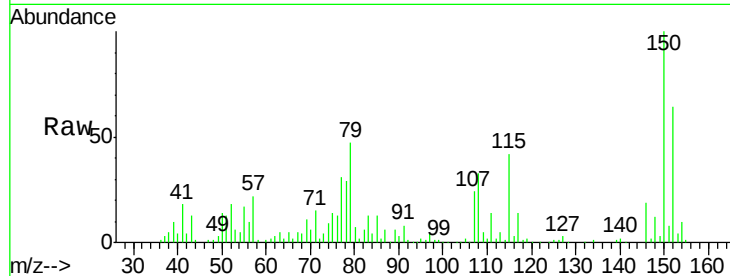
Tgt Ion: 79 Resp: 145912

Ion Ratio Lower Upper

79 100

108 70.2 58.2 87.4

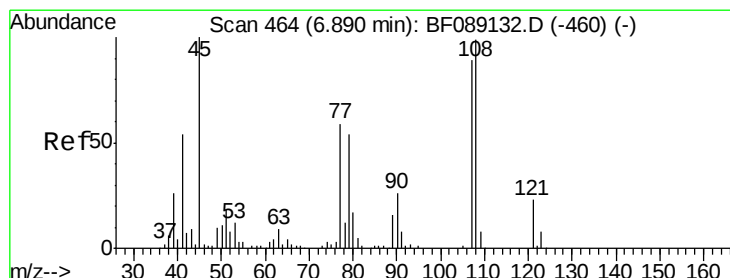
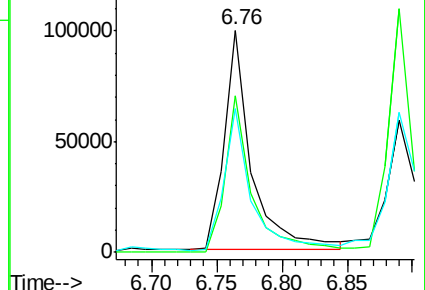
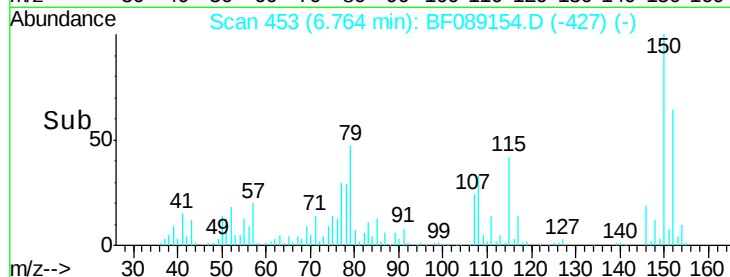
77 64.5 52.2 78.4



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.06 ng

RT: 6.90 min Scan# 465

Delta R.T. 0.01 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

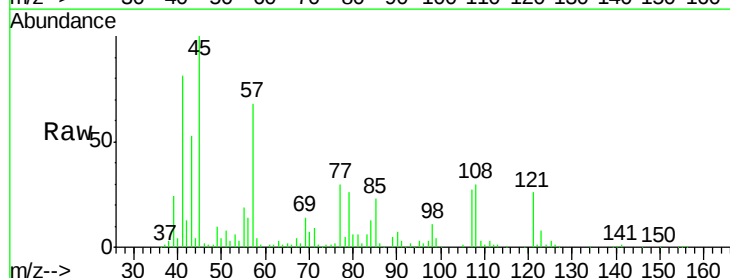
Tgt Ion: 45 Resp: 168777

Ion Ratio Lower Upper

45 100

77 29.9 39.7 79.7#

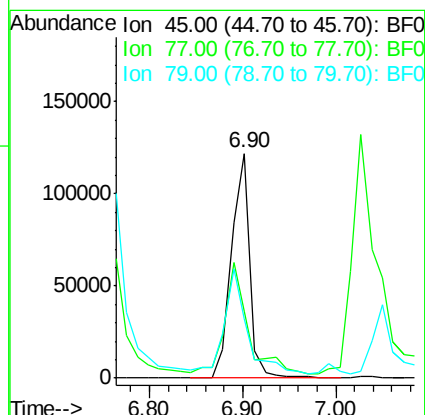
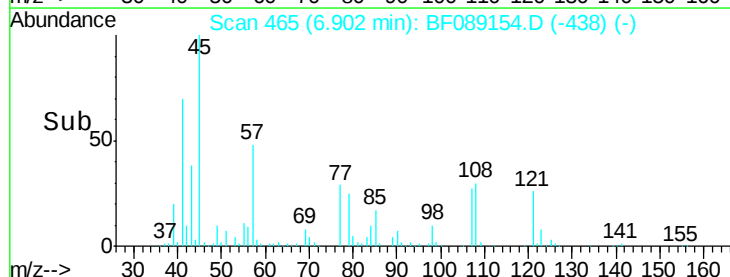
79 26.4 34.7 74.7#

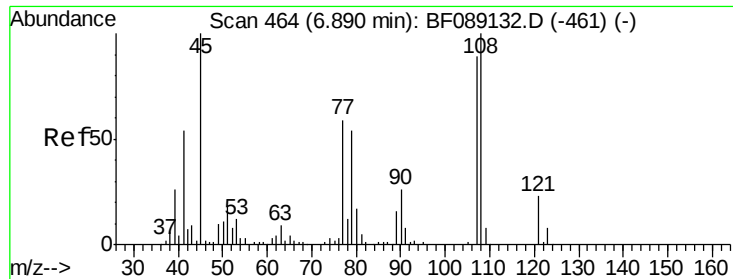


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

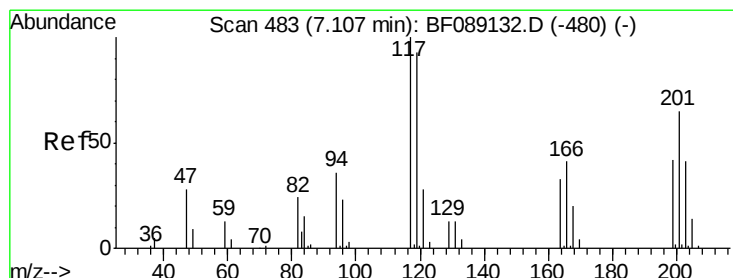
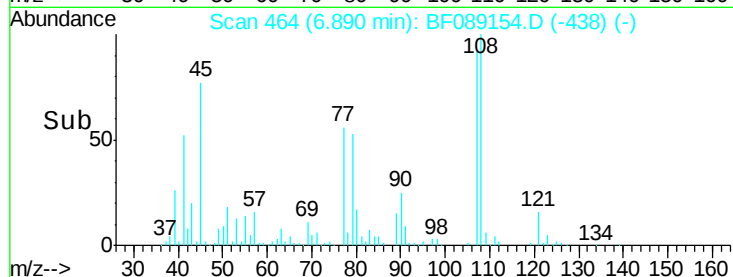
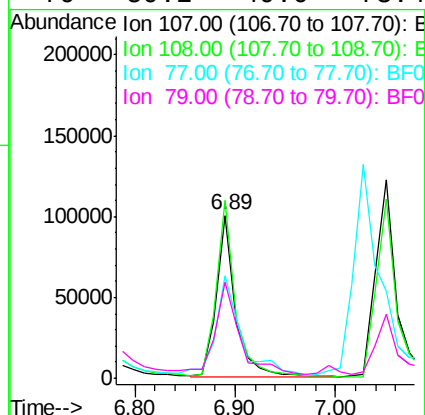
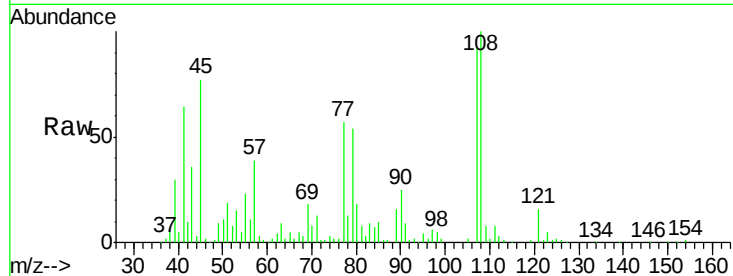




#17
2-Methylphenol
Concen: 42.30 ng
RT: 6.89 min Scan# 464
Delta R.T. 0.00 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

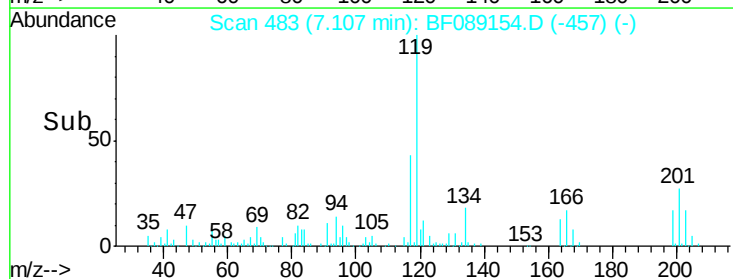
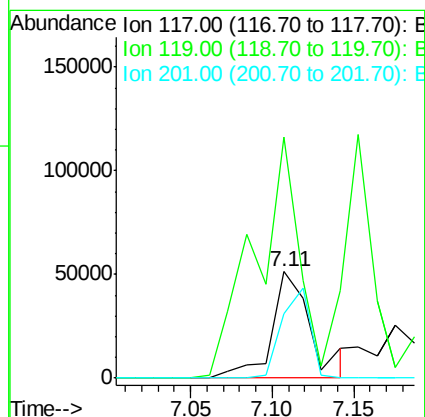
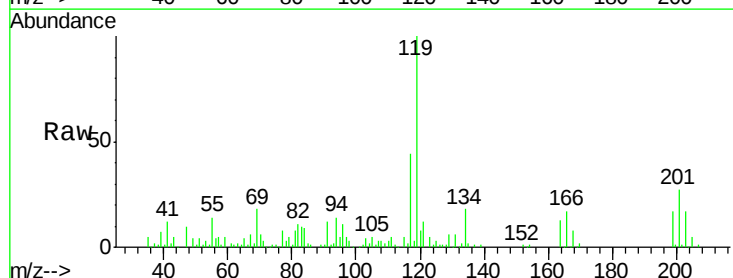
Instrument :
BNA_F
ClientSampleId :
KSB-05-12.0-14.0MSD

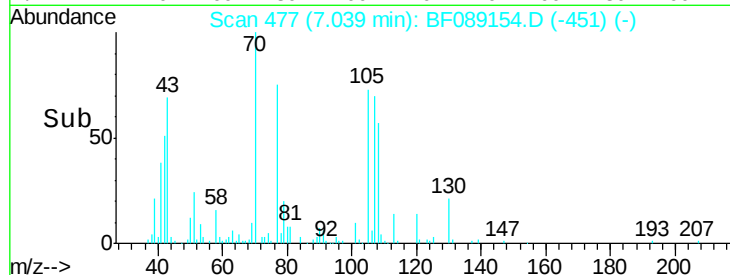
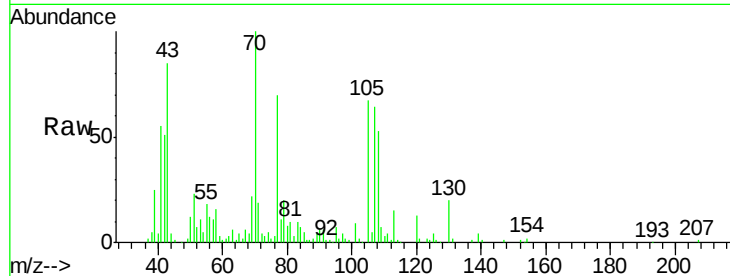
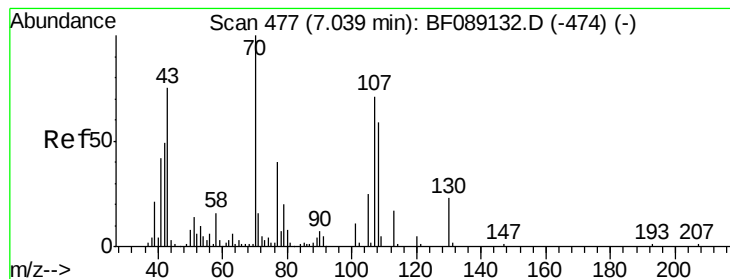
Tgt Ion:	107	Resp:	132467
Ion Ratio	Lower	Upper	
107	100		
108	109.2	89.4	134.2
77	62.7	53.4	80.0
79	59.2	49.0	73.4



#18
Hexachloroethane
Concen: 51.39 ng
RT: 7.11 min Scan# 483
Delta R.T. 0.00 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

Tgt Ion:	117	Resp:	85405
Ion Ratio	Lower	Upper	
117	100		
119	227.1	74.5	111.7#
201	60.6	51.8	77.6





#19

n-Nitroso-di-n-propylamine

Concen: 41.65 ng

RT: 7.04 min Scan# 477

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Instrument :

BNA_F

ClientSampleId :

KSB-05-12.0-14.0MSD

Tgt Ion: 70 Resp: 125863

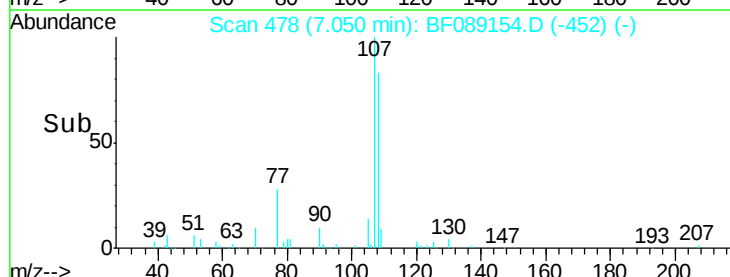
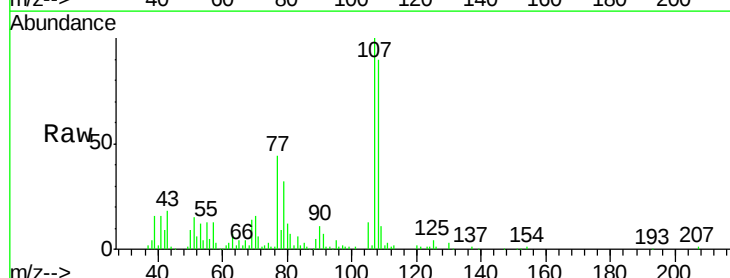
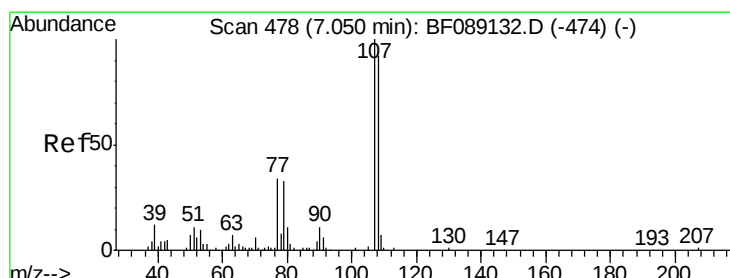
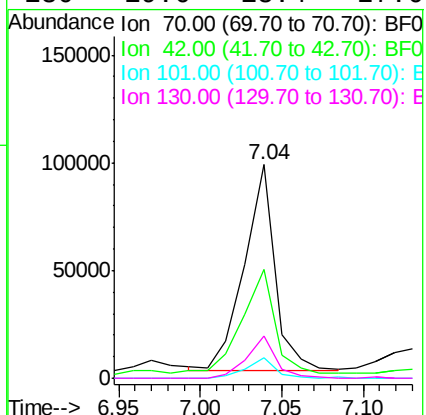
Ion Ratio Lower Upper

70 100

42 50.9 39.2 58.8

101 9.5 8.5 12.7

130 19.6 18.4 27.6



#20

3+4-Methylphenols

Concen: 41.94 ng

RT: 7.05 min Scan# 478

Delta R.T. 0.00 min

Lab File: BF089154.D

Acq: 21 Jul 2016 2:22

Tgt Ion: 107 Resp: 178293

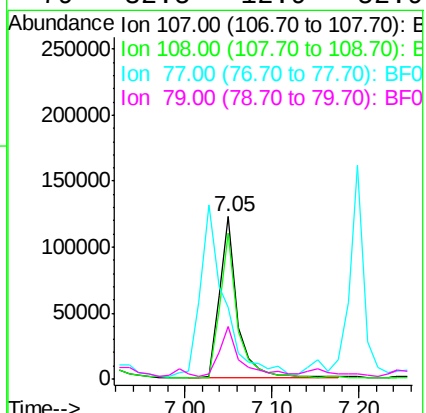
Ion Ratio Lower Upper

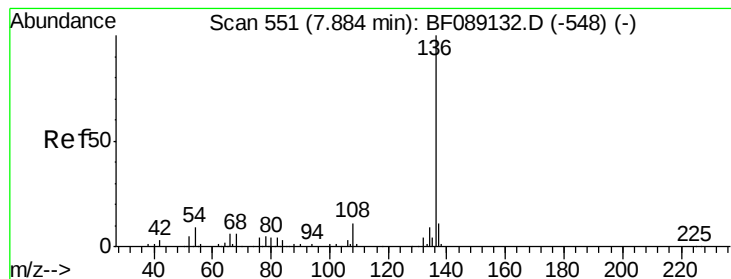
107 100

108 90.3 72.5 112.5

77 44.0 17.7 57.7

79 32.5 12.9 52.9

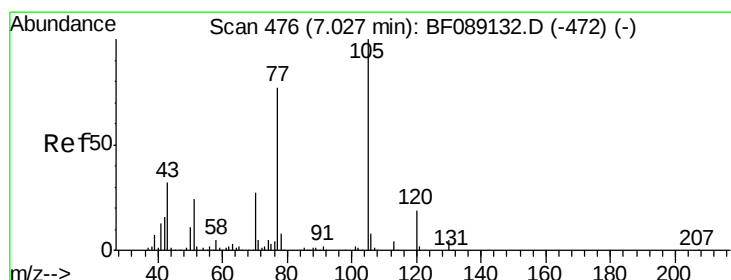
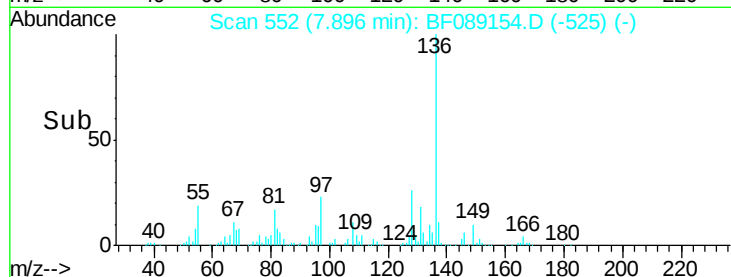
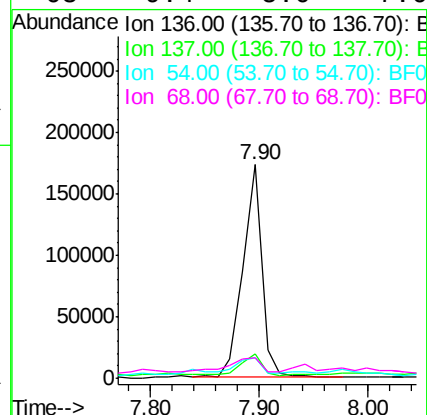
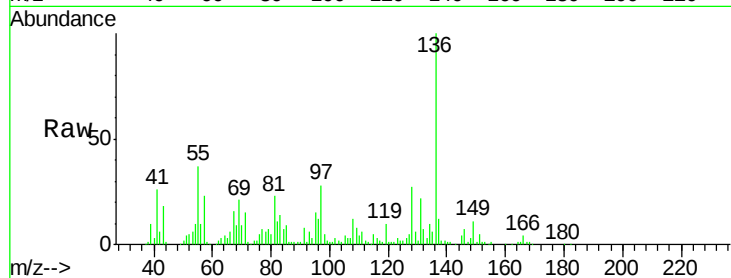




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.90 min Scan# 552
Delta R.T. 0.01 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

Instrument :
BNA_F
ClientSampleId :
KSB-05-12.0-14.0MSD

Tgt Ion:	136	Resp:	207012
Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.8	13.2
54	9.8	7.0	10.4
68	9.4	5.0	7.6#



#22
Acetophenone
Concen: 44.35 ng
RT: 7.03 min Scan# 476
Delta R.T. 0.00 min
Lab File: BF089154.D
Acq: 21 Jul 2016 2:22

Tgt Ion:	105	Resp:	245140
Ion	Ratio	Lower	Upper
105	100		
71	10.7	3.8	5.6#
51	25.6	19.6	29.4
120	19.2	15.5	23.3

