

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080416\
 Data File : BF089617.D
 Acq On : 5 Aug 2016 7:30
 Operator : UM/SJ
 Sample : H4288-23MSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-64-9.0-15.0MSD

Quant Time: Aug 05 08:03:30 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 05 01:39:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	45210	20.00	ng	0.00
21) Naphthalene-d8	9.47	136	198426	20.00	ng	0.00
38) Acenaphthene-d10	12.30	164	90291	20.00	ng	0.00
63) Phenanthrene-d10	14.70	188	163561	20.00	ng	0.00
75) Chrysene-d12	18.39	240	92613	20.00	ng	0.00
86) Perylene-d12	20.05	264	77794	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.34	112	169647	62.89	ng	0.02
7) Phenol-d6	6.98	99	156930	42.89	ng	0.00
23) Nitrobenzene-d5	8.36	82	318928	88.90	ng	0.00
41) 2,4,6-Tribromophenol	13.60	330	95673	128.40	ng	0.01
44) 2-Fluorobiphenyl	11.26	172	589397	84.84	ng	0.00
78) Terphenyl-d14	17.05	244	428807	91.40	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.80	88	23120	14.95	ng	# 70
3) Pyridine	2.40	79	31860	11.21	ng	98
4) n-Nitrosodimethylamine	2.35	42	18332	18.87	ng	# 90
6) Aniline	6.95	93	88440	18.65	ng	99
8) 2-Chlorophenol	7.12	128	127354	38.46	ng	97
9) Benzaldehyde	6.75	77	50046	37.70	ng	99
10) Phenol	7.00	94	62710	16.69	ng	# 72
11) bis(2-Chloroethyl)ether	7.08	93	146088	45.26	ng	98
12) 1,3-Dichlorobenzene	7.35	146	132211	36.76	ng	99
13) 1,4-Dichlorobenzene	7.47	146	131938	36.78	ng	99
14) 1,2-Dichlorobenzene	7.70	146	137201	36.28	ng	100
15) Benzyl Alcohol	7.74	79	78056	32.53	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.95	45	173494	42.21	ng	85
17) 2-Methylphenol	7.95	107	77895	32.57	ng	# 90
18) Hexachloroethane	8.23	117	52394	34.66	ng	95
19) n-Nitroso-di-n-propylamine	8.17	70	121516	45.97	ng	98
20) 3+4-Methylphenols	8.22	107	92239	30.55	ng	96
22) Acetophenone	8.12	105	179665	37.98	ng	96
24) Nitrobenzene	8.39	77	160669	47.15	ng	98
25) Isophorone	8.79	82	313704	45.67	ng	98
26) 2-Nitrophenol	8.89	139	68224	43.63	ng	97
27) 2,4-Dimethylphenol	9.04	122	114650	40.78	ng	95
28) bis(2-Chloroethoxy)methane	9.18	93	192522	46.33	ng	99
29) 2,4-Dichlorophenol	9.30	162	112576	42.32	ng	96
30) 1,2,4-Trichlorobenzene	9.40	180	120021	39.51	ng	97
31) Naphthalene	9.51	128	424269	40.23	ng	99
32) Benzoic acid	9.30	122	16105	9.12	ng	96
33) 4-Chloroaniline	9.66	127	67496	17.04	ng	99
34) Hexachlorobutadiene	9.72	225	61578	35.20	ng	98
35) Caprolactam	10.30	113	3499	4.51	ng	87
36) 4-Chloro-3-methylphenol	10.49	107	120531	38.98	ng	96
37) 2-Methylnaphthalene	10.63	142	273757	42.21	ng	98
39) 1,2,4,5-Tetrachlorobenzene	10.91	216	111155	32.75	ng	98
40) Hexachlorocyclopentadiene	10.89	237	86777	74.58	ng	100

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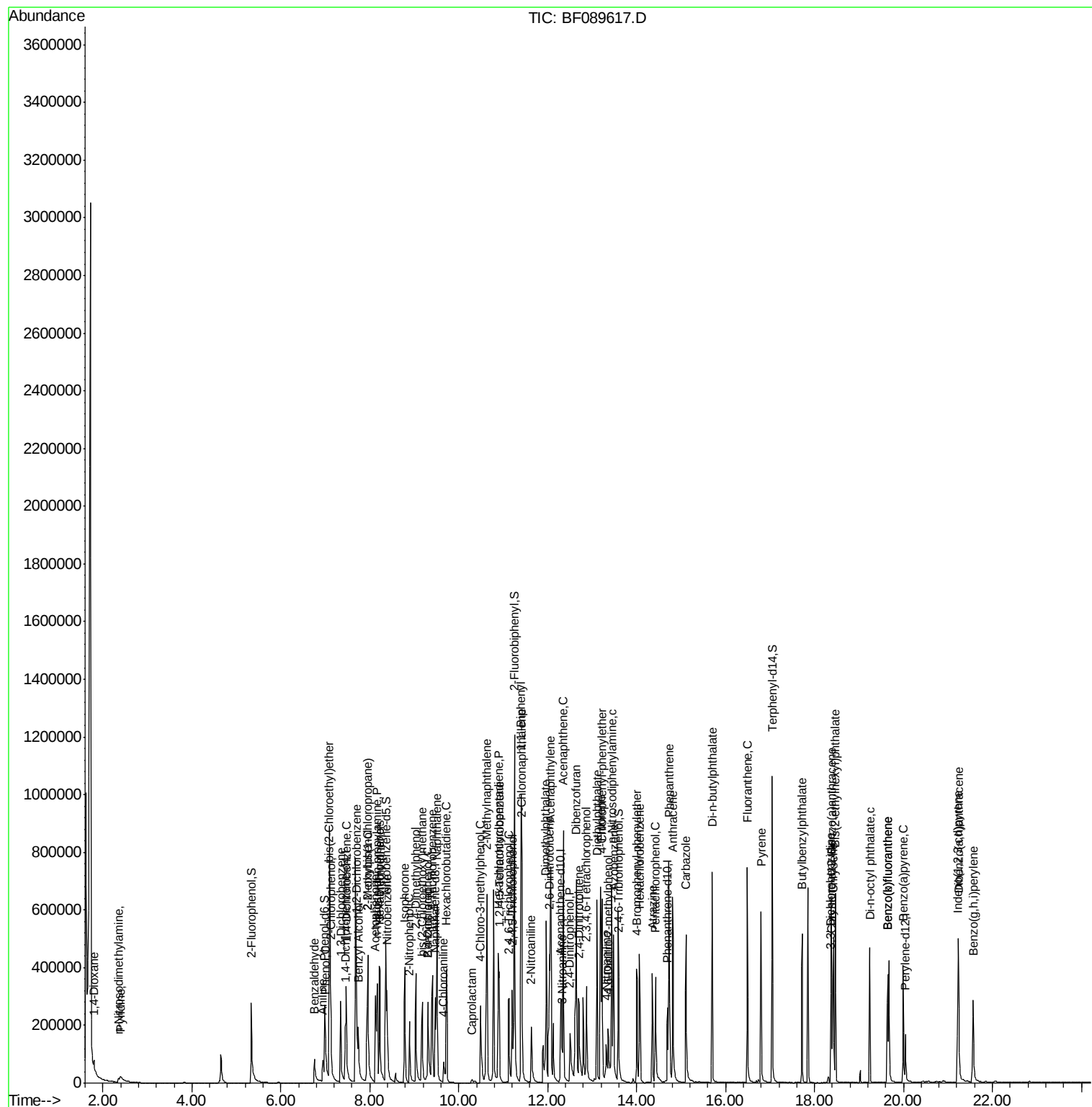
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	11.13	196	75167	44.91	ng	99
43) 2,4,5-Trichlorophenol	11.20	196	80453	44.97	ng	99
45) 1,1'-Biphenyl	11.40	154	318319	39.09	ng	99
46) 2-Chloronaphthalene	11.42	162	267348	43.79	ng	99
47) 2-Nitroaniline	11.62	65	84019	42.70	ng	91
48) Acenaphthylene	12.07	152	429520	42.71	ng	99
49) Dimethylphthalate	11.96	163	361578	51.09	ng	99
50) 2,6-Dinitrotoluene	12.04	165	70743	50.28	ng	89
51) Acenaphthene	12.35	154	256656	44.19	ng	99
52) 3-Nitroaniline	12.32	138	36811	21.87	ng	99
53) 2,4-Dinitrophenol	12.50	184	55075	85.88	ng	97
54) Dibenzofuran	12.64	168	391785	49.06	ng	98
55) 4-Nitrophenol	12.64	139	152633	Below Cal	#	23
56) 2,4-Dinitrotoluene	12.71	165	95199	48.10	ng	# 84
57) Fluorene	13.19	166	309565	45.35	ng	98
58) 2,3,4,6-Tetrachlorophenol	12.87	232	64709	47.65	ng	97
59) Diethylphthalate	13.11	149	339320	46.36	ng	99
60) 4-Chlorophenyl-phenylether	13.22	204	144643	46.21	ng	98
61) 4-Nitroaniline	13.31	138	54087	35.75	ng	98
62) Azobenzene	13.49	77	369752	52.24	ng	98
64) 4,6-Dinitro-2-methylphenol	13.37	198	44573	44.92	ng	83
65) n-Nitrosodiphenylamine	13.44	169	256539	46.44	ng	99
66) 4-Bromophenyl-phenylether	14.01	248	81473	51.50	ng	99
67) Hexachlorobenzene	14.07	284	80081	46.01	ng	99
68) Atrazine	14.35	200	75013	48.63	ng	98
69) Pentachlorophenol	14.42	266	65824	87.91	ng	99
70) Phenanthrene	14.73	178	428283	48.16	ng	100
71) Anthracene	14.81	178	446419	46.82	ng	100
72) Carbazole	15.11	167	383217	48.22	ng	100
73) Di-n-butylphthalate	15.70	149	530255	49.34	ng	100
74) Fluoranthene	16.49	202	405376	44.34	ng	99
77) Pyrene	16.80	202	393638	48.08	ng	99
79) Butylbenzylphthalate	17.73	149	179408	51.49	ng	98
80) Benzo(a)anthracene	18.38	228	256454	48.19	ng	98
81) 3,3'-Dichlorobenzidine	18.37	252	19283	11.50	ng	# 96
82) Chrysene	18.42	228	259866	46.55	ng	99
83) Bis(2-ethylhexyl)phthalate	18.47	149	235612	48.84	ng	99
84) Di-n-octyl phthalate	19.25	149	350934	50.55	ng	100
85) Indeno(1,2,3-cd)pyrene	21.22	276	255758	60.33	ng	100
87) Benzo(b)fluoranthene	19.65	252	205862	43.03	ng	99
88) Benzo(k)fluoranthene	19.65	252	205862	42.65	ng	# 96
89) Benzo(a)pyrene	19.99	252	202414	45.18	ng	98
90) Dibenzo(a,h)anthracene	21.23	278	215766	51.56	ng	97
91) Benzo(g,h,i)perylene	21.57	276	223726	52.22	ng	94

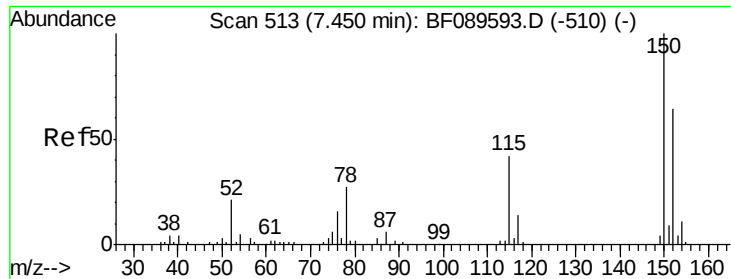
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.45 min Scan# 513

Delta R.T. 0.00 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

Instrument :

BNA_F

ClientSampleId :

GW-64-9.0-15.0MSD

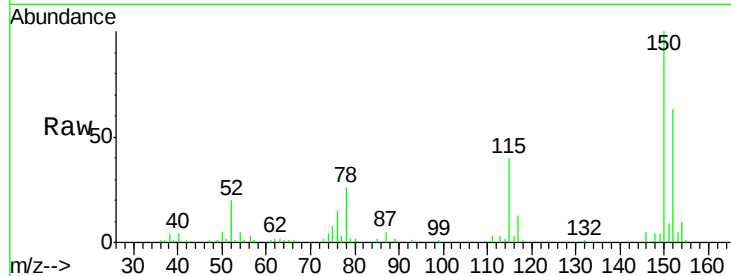
Tgt Ion:152 Resp: 45210

Ion Ratio Lower Upper

152 100

150 158.9 125.5 188.3

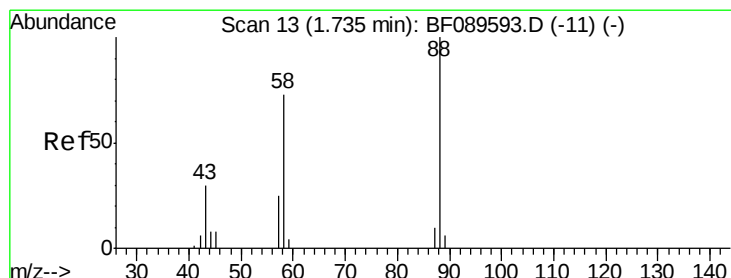
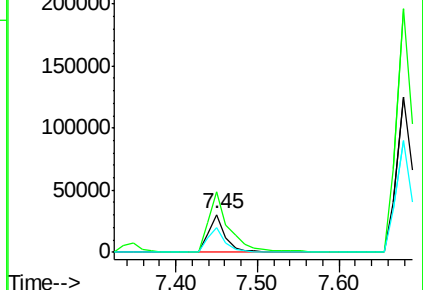
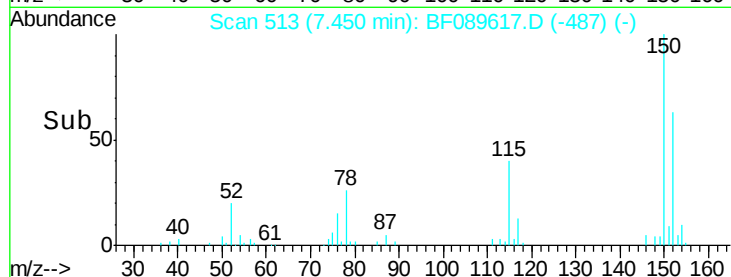
115 63.9 52.0 78.0



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: 14.95 ng

RT: 1.80 min Scan# 19

Delta R.T. 0.07 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

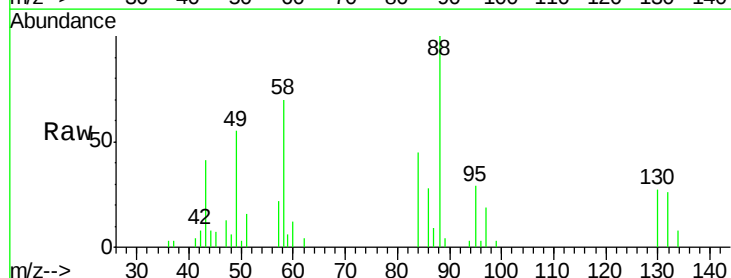
Tgt Ion: 88 Resp: 23120

Ion Ratio Lower Upper

88 100

58 82.9 49.8 74.8#

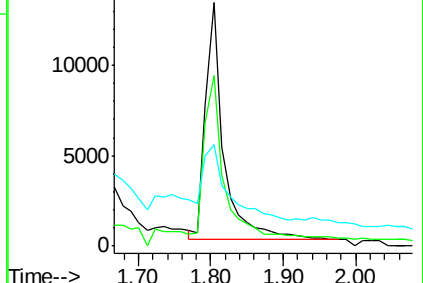
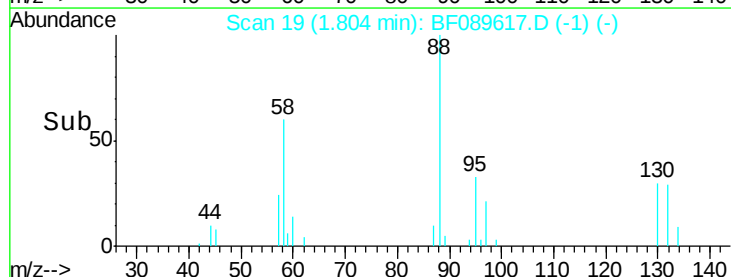
43 43.9 20.1 30.1#

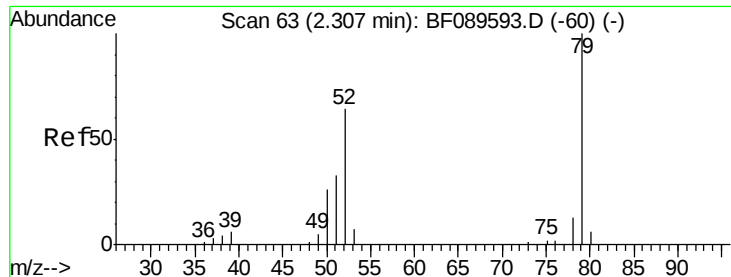


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 11.21 ng

RT: 2.40 min Scan# 71

Delta R.T. 0.09 min

Lab File: BF089617.D

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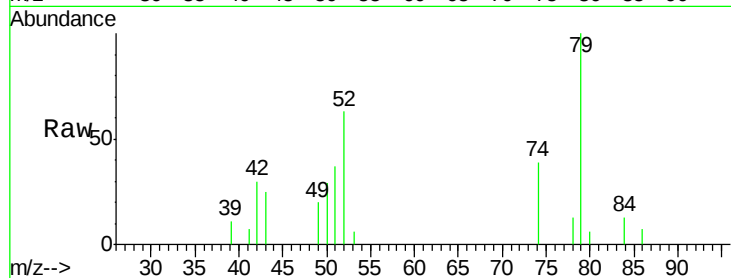
Tgt Ion: 79 Resp: 31860

Ion Ratio Lower Upper

79 100

52 62.7 51.0 76.4

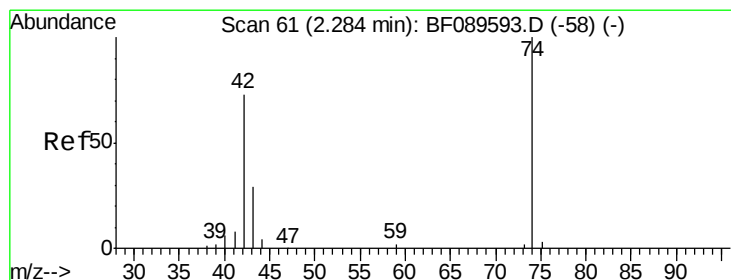
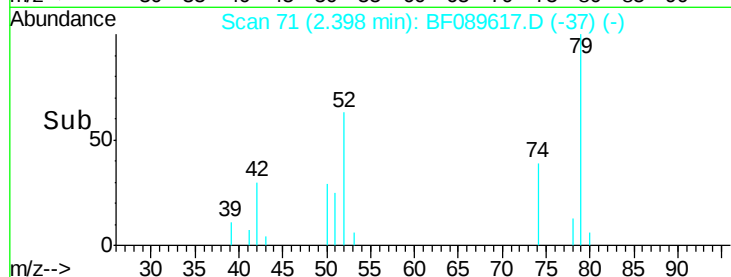
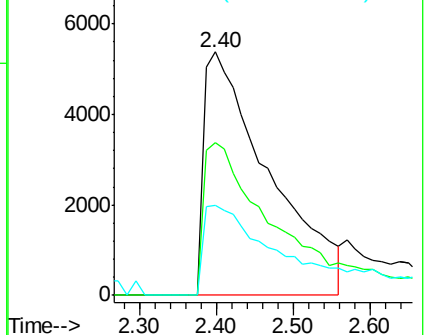
51 37.0 27.9 41.9



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 18.87 ng

RT: 2.35 min Scan# 67

Delta R.T. 0.07 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

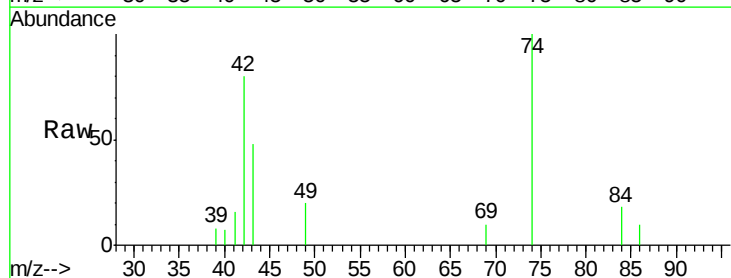
Tgt Ion: 42 Resp: 18332

Ion Ratio Lower Upper

42 100

74 125.4 110.0 165.0

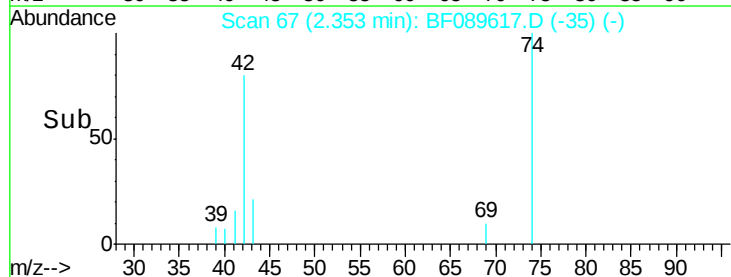
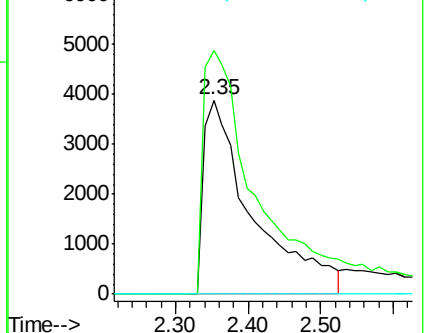
44 0.0 4.8 7.2#

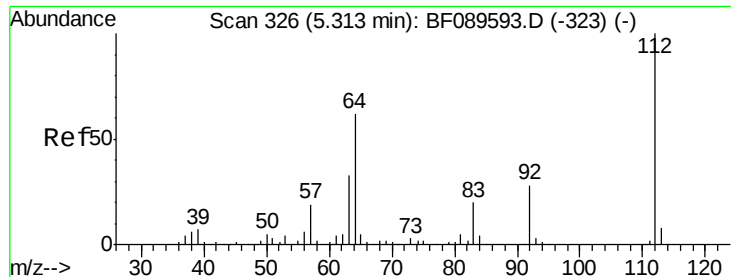


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 62.89 ng

RT: 5.34 min Scan# 328

Delta R.T. 0.02 min

Lab File: BF089617.D

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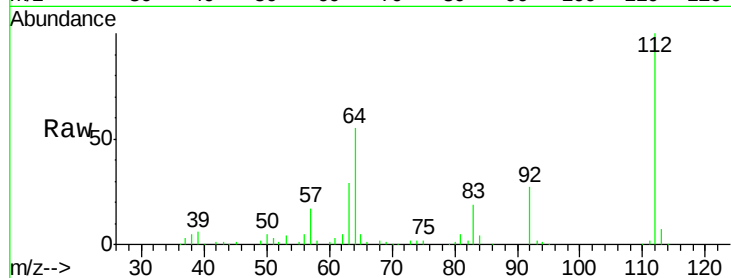
Tgt Ion: 112 Resp: 169647

Ion Ratio Lower Upper

112 100

64 55.3 49.9 74.9

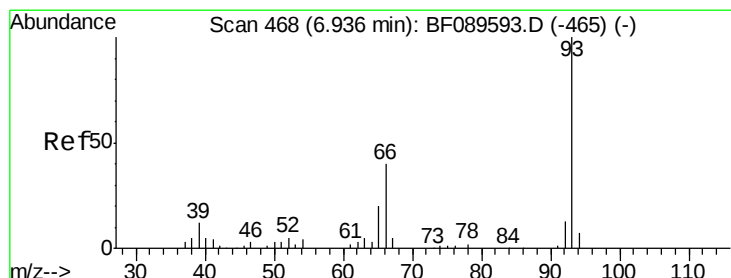
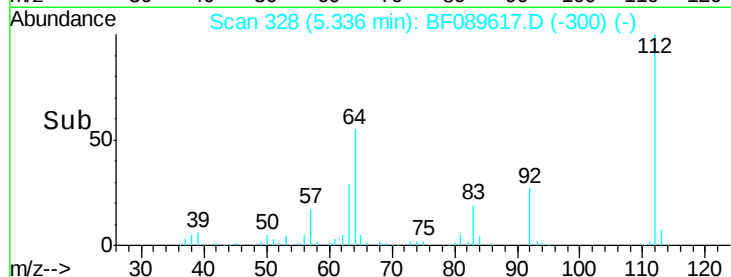
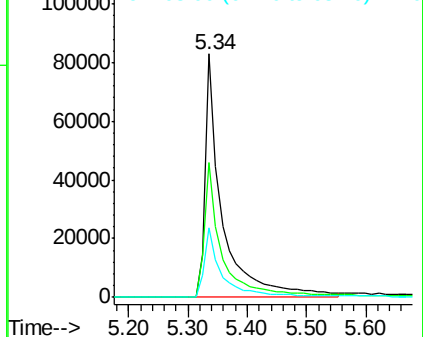
63 28.8 26.1 39.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 18.65 ng

RT: 6.95 min Scan# 469

Delta R.T. 0.01 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

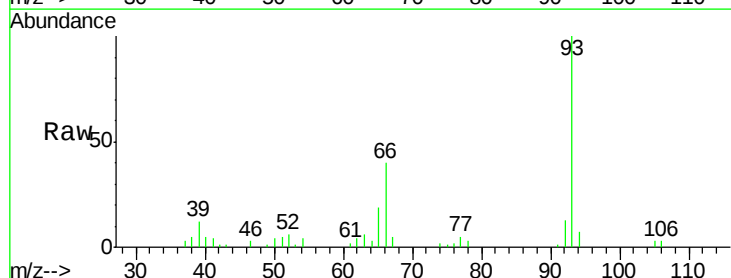
Tgt Ion: 93 Resp: 88440

Ion Ratio Lower Upper

93 100

66 39.6 32.2 48.2

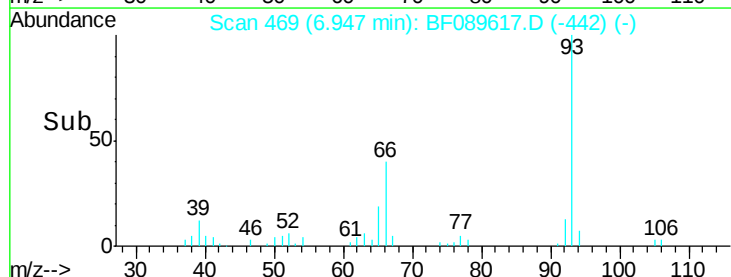
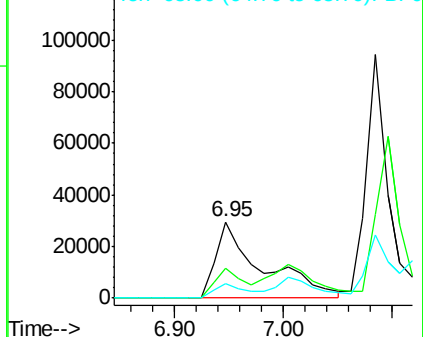
65 19.3 15.8 23.8

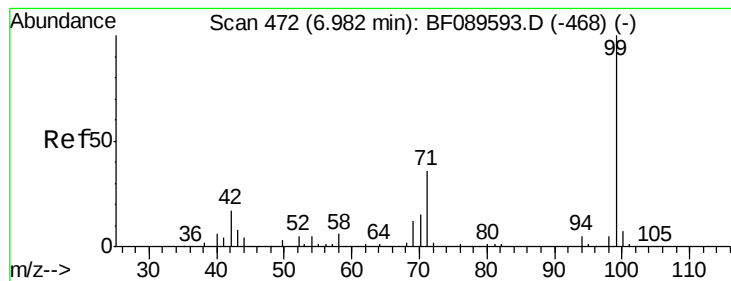


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 42.89 ng

RT: 6.98 min Scan# 472

Delta R.T. 0.00 min

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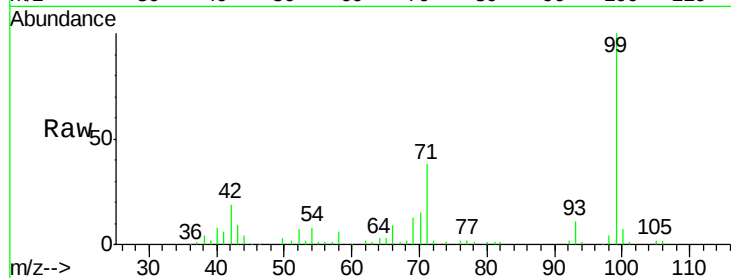
Tgt Ion: 99 Resp: 156930

Ion Ratio Lower Upper

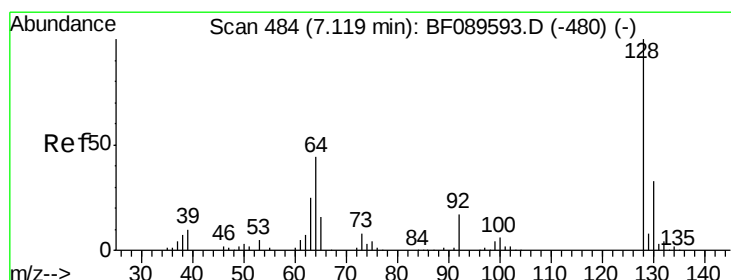
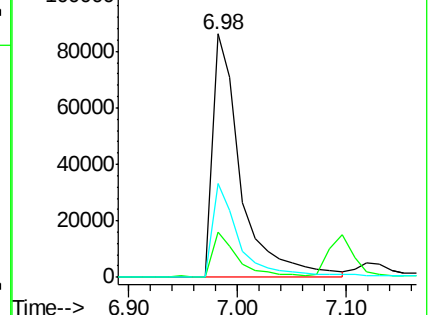
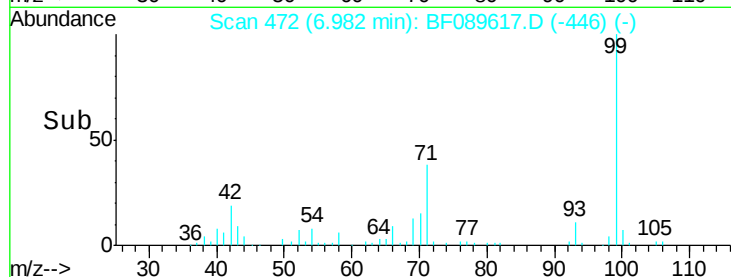
99 100

42 18.8 13.7 20.5

71 38.4 29.0 43.4



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: 38.46 ng

RT: 7.12 min Scan# 484

Delta R.T. 0.00 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

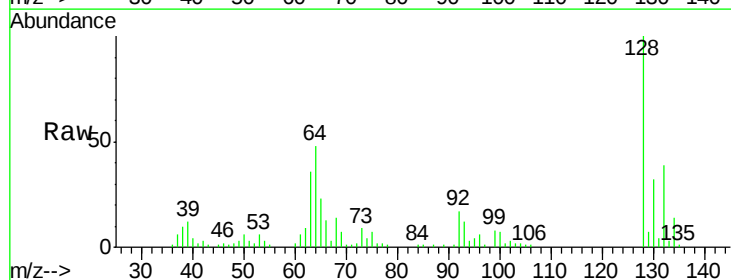
Tgt Ion: 128 Resp: 127354

Ion Ratio Lower Upper

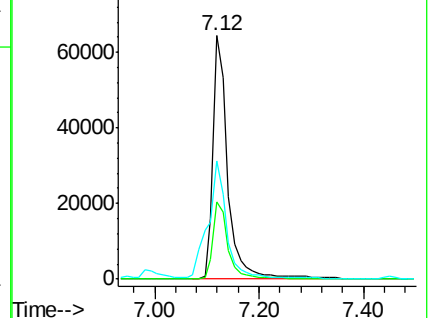
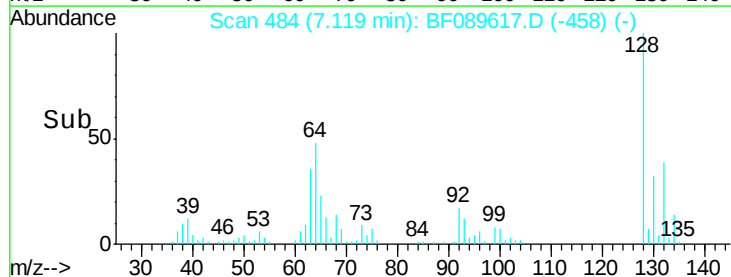
128 100

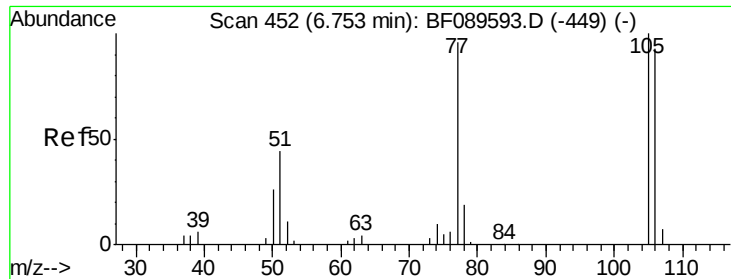
130 31.9 12.6 52.6

64 48.5 25.3 65.3



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: 37.70 ng

RT: 6.75 min Scan# 452

Delta R.T. 0.00 min

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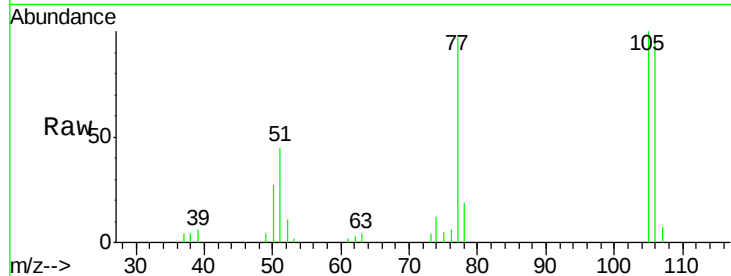
Tgt Ion: 77 Resp: 50046

Ion Ratio Lower Upper

77 100

105 102.7 84.7 124.7

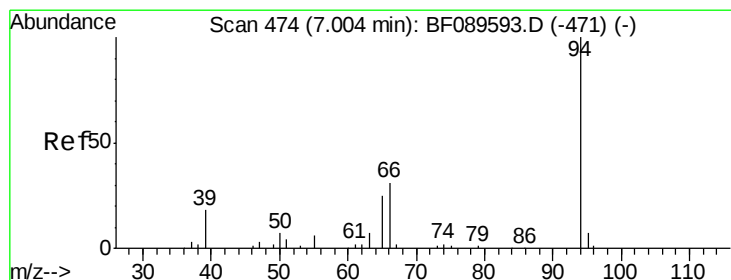
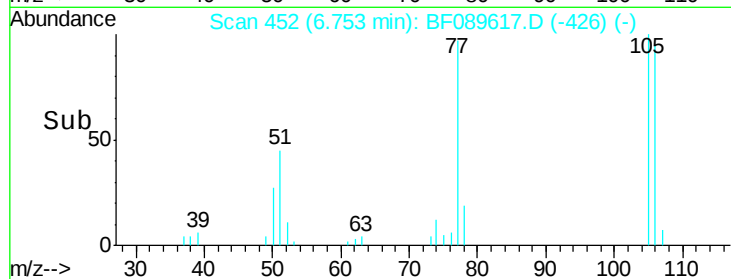
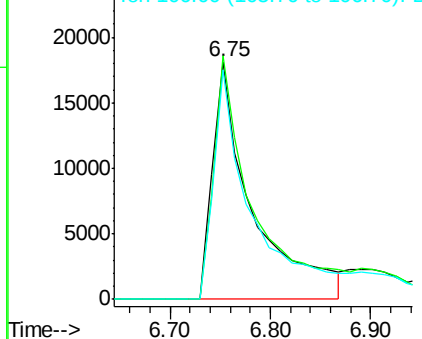
106 97.0 77.1 117.1



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: 16.69 ng

RT: 7.00 min Scan# 474

Delta R.T. 0.00 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

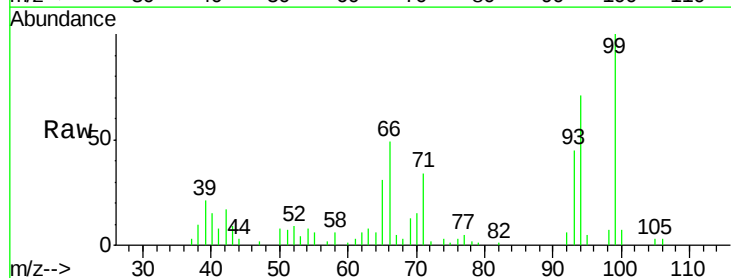
Tgt Ion: 94 Resp: 62710

Ion Ratio Lower Upper

94 100

65 43.4 11.0 51.0

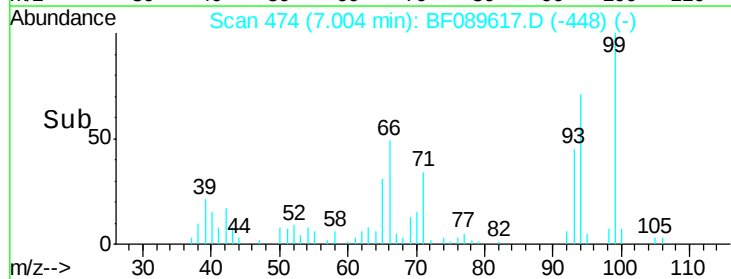
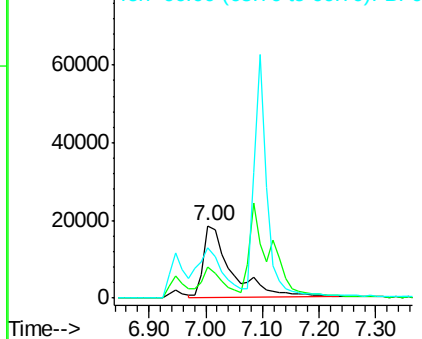
66 69.1 27.4 67.4#

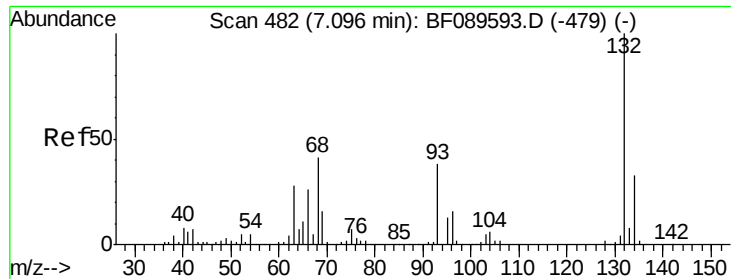


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

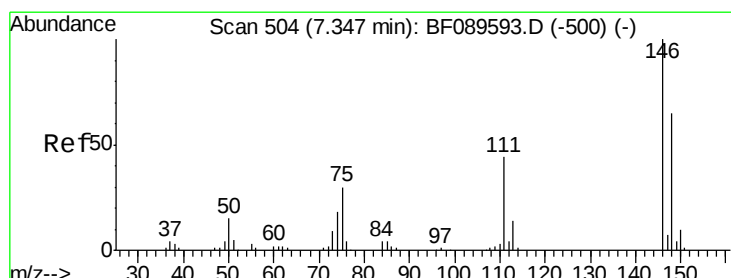
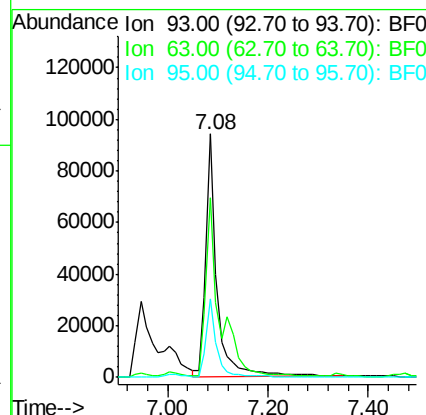
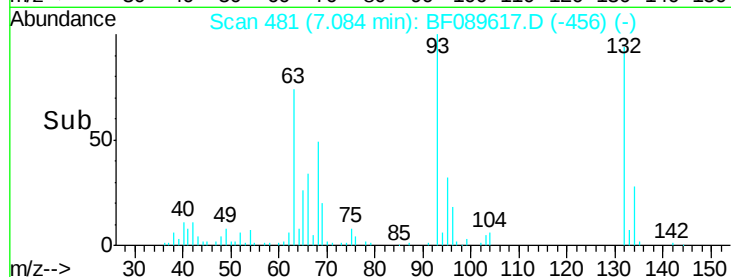
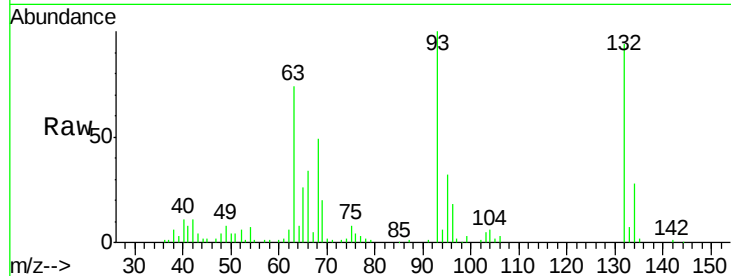




#11
bis(2-Chloroethyl)ether
Concen: 45.26 ng
RT: 7.08 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF089617.D
Acq: 5 Aug 2016 7:30

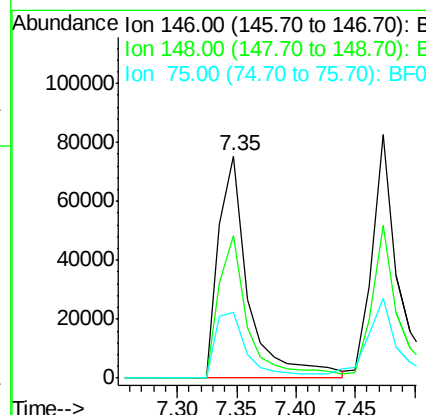
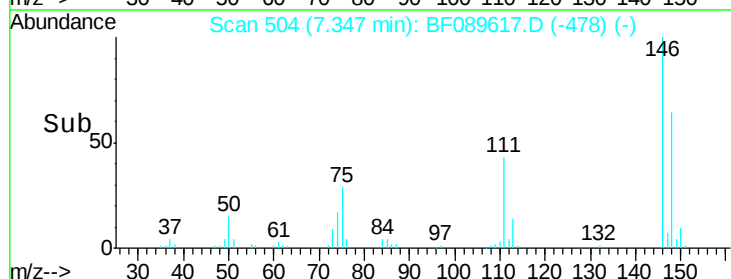
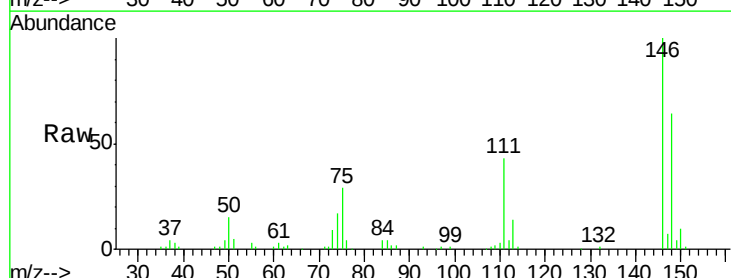
Instrument :
BNA_F
ClientSampleId :
GW-64-9.0-15.0MSD

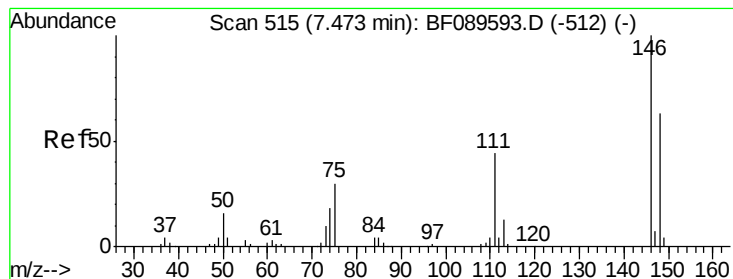
Tgt Ion: 93 Resp: 146088
Ion Ratio Lower Upper
93 100
63 74.0 52.2 92.2
95 32.3 13.1 53.1



#12
1,3-Dichlorobenzene
Concen: 36.76 ng
RT: 7.35 min Scan# 504
Delta R.T. 0.00 min
Lab File: BF089617.D
Acq: 5 Aug 2016 7:30

Tgt Ion: 146 Resp: 132211
Ion Ratio Lower Upper
146 100
148 64.0 52.1 78.1
75 29.3 24.1 36.1





#13

1,4-Dichlorobenzene

Concen: 36.78 ng

RT: 7.47 min Scan# 515

Delta R.T. 0.00 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

Instrument :

BNA_F

ClientSampleId :

GW-64-9.0-15.0MSD

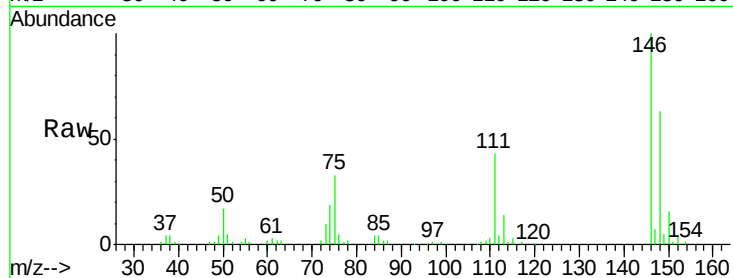
Tgt Ion:146 Resp: 131938

Ion Ratio Lower Upper

146 100

148 62.5 50.4 75.6

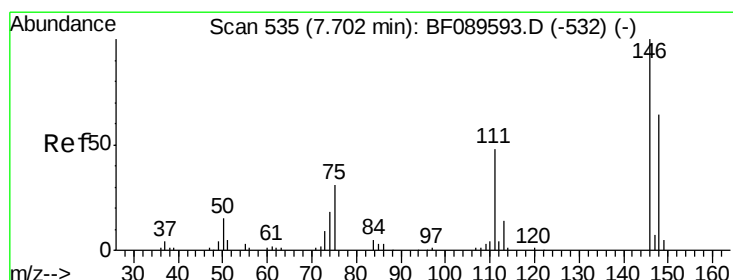
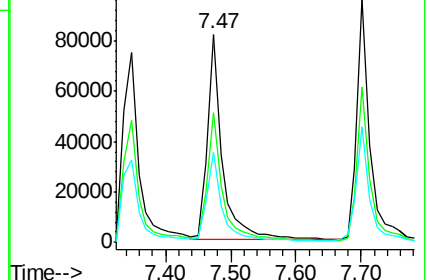
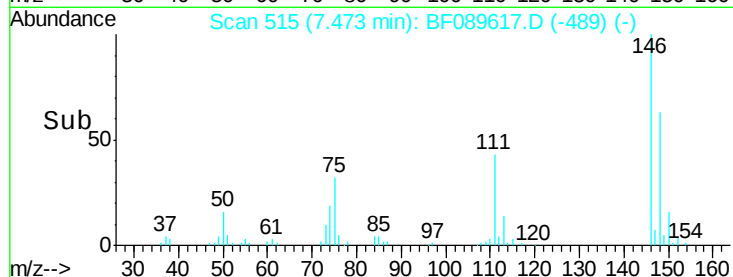
111 43.1 35.0 52.4



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 36.28 ng

RT: 7.70 min Scan# 535

Delta R.T. 0.00 min

Lab File: BF089617.D

Acq: 5 Aug 2016 7:30

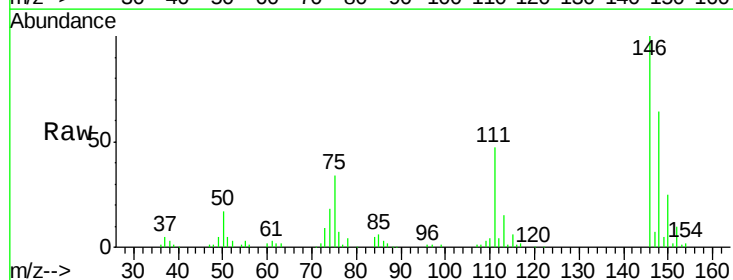
Tgt Ion:146 Resp: 137201

Ion Ratio Lower Upper

146 100

148 63.8 51.0 76.6

111 47.4 38.5 57.7



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

