

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093446.D
 Acq On : 8 Mar 2017 23:23
 Operator : SJ/MA
 Sample : I2106-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB414

Manual Integrations
 APPROVED

mohammad
 3/10/2017 8:12:08 AM

Quant Time: Mar 09 00:37:56 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	178918	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	682186	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	282619	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	423440	20.00	ng	0.01
75) Chrysene-d12	13.93	240	290871	20.00	ng	0.01
86) Perylene-d12	15.36	264	290142	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1218302	113.33	ng	0.01
7) Phenol-d6	6.42	99	1584140	116.86	ng	0.01
23) Nitrobenzene-d5	7.34	82	994641	80.90	ng	0.00
41) 2,4,6-Tribromophenol	10.60	330	208193	113.07	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	1339480	88.16	ng	0.00
78) Terphenyl-d14	12.87	244	793624	70.94	ng	0.00

Target Compounds						Qvalue
10) Phenol	6.44	94	100358	6.04	ng	# 74
31) Naphthalene	8.07	128	292764	8.56	ng	99
37) 2-Methylnaphthalene	8.77	142	132420	6.09	ng	98
45) 1,1'-Biphenyl	9.22	154	44591	2.17	ng	94
48) Acenaphthylene	9.67	152	156738	6.03	ng	# 92
49) Dimethylphthalate	9.53	163	162233	8.66	ng	# 98
51) Acenaphthene	9.84	154	46240	3.01	ng	# 85
54) Dibenzofuran	10.01	168	118655	6.17	ng	98
57) Fluorene	10.36	166	105190	6.45	ng	93
70) Phenanthrene	11.32	178	733966	30.37	ng	99
71) Anthracene	11.37	178	311632	12.75	ng	97
72) Carbazole	11.53	167	74149	3.23	ng	# 87
74) Fluoranthene	12.51	202	1037626	44.44	ng	97
77) Pyrene	12.73	202	1208949	57.15	ng	99
80) Benzo(a)anthracene	13.92	228	574669	33.46	ng	# 94
82) Chrysene	13.97	228	446329m	28.08	ng	
83) Bis(2-ethylhexyl)phthalate	13.91	149	29931	2.41	ng	# 84
85) Indeno(1,2,3-cd)pyrene	16.75	276	363842	27.35	ng	95
87) Benzo(b)fluoranthene	14.96	252	704337m	39.86	ng	
88) Benzo(k)fluoranthene	14.97	252	213645m	12.54	ng	
89) Benzo(a)pyrene	15.31	252	556485	34.46	ng	# 94
90) Dibenz(a,h)anthracene	16.75	278	85578	6.41	ng	# 80
91) Benzo(g,h,i)perylene	17.17	276	421109	30.71	ng	# 87

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

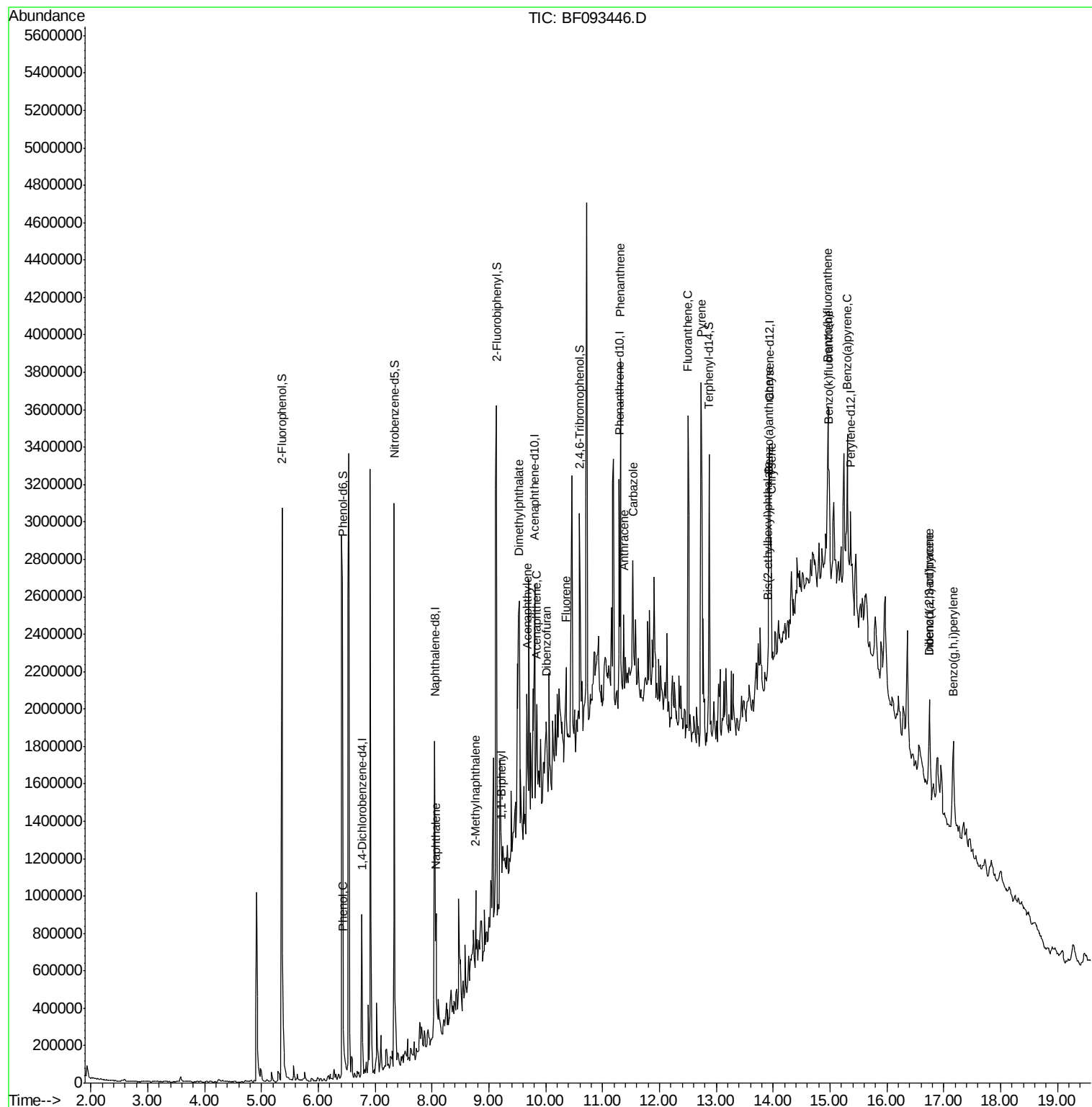
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
Data File : BF093446.D
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Sample : I2106-03
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#1

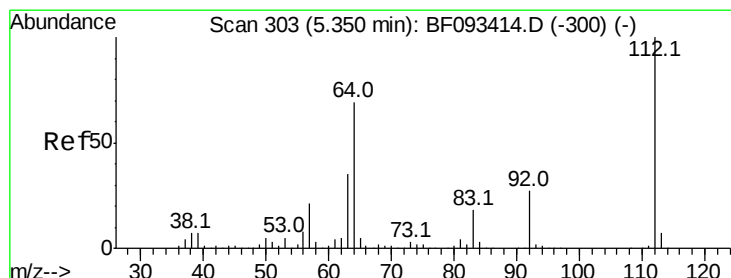
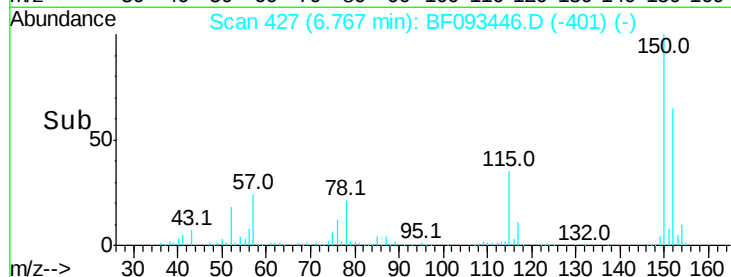
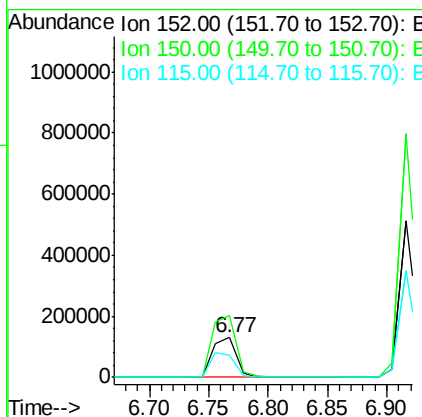
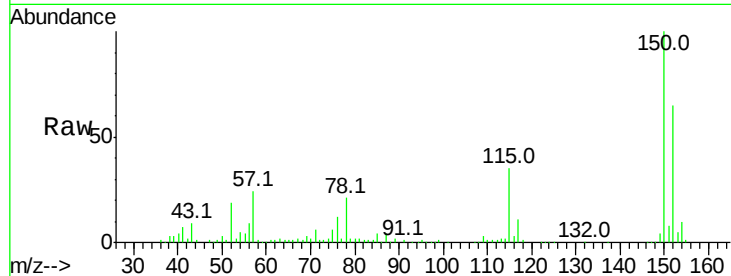
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Instrument :
BNA_F
ClientSampleId :
HY-SB414

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.9	187.3
115	54.2	46.0	69.0

Manual Integrations
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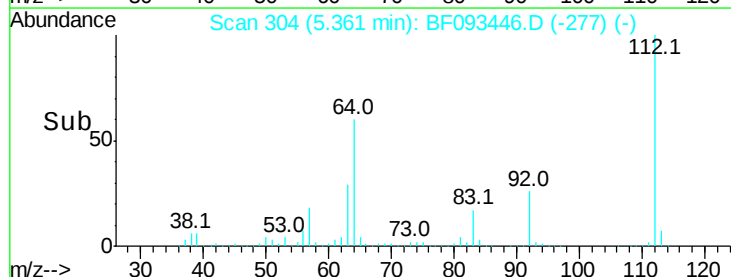
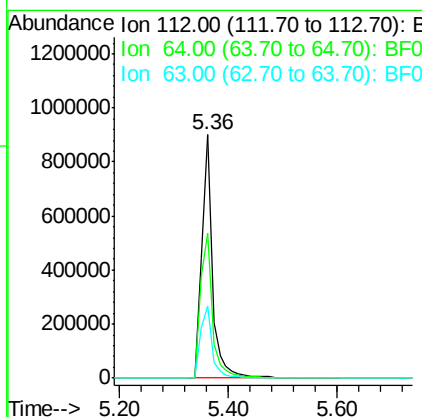
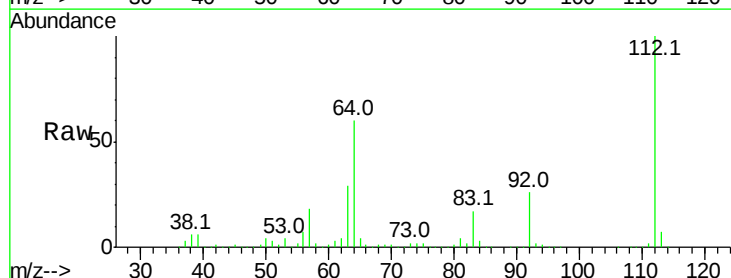
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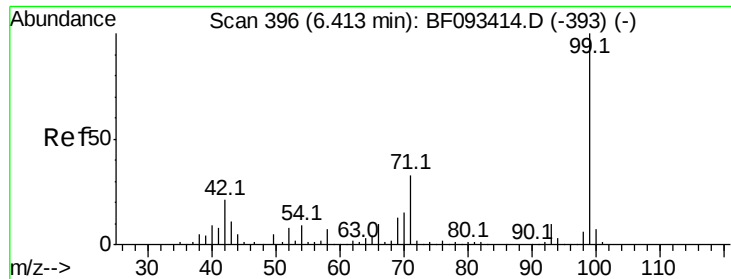


#5

2-Fluorophenol
Concen: 113.33 ng
RT: 5.36 min Scan# 304
Delta R.T. 0.01 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.7	46.1	69.1
63	29.5	23.8	35.6





#7

Phenol-d6

Concen: 116.86 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

ClientSampleId :

HY-SB414

Tot Ion: 99 Resp: 1584140

Ion Ratio Lower Upper

99 100

42 16.2 15.6 23.4

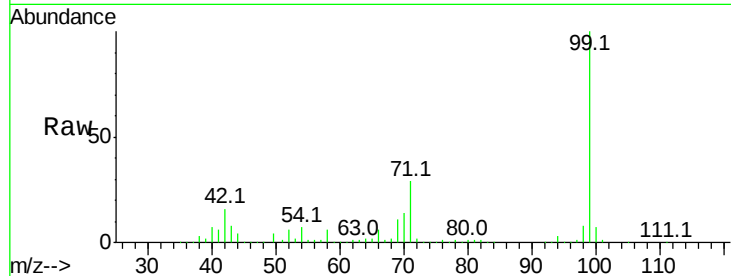
71 28.5 27.5 41.3

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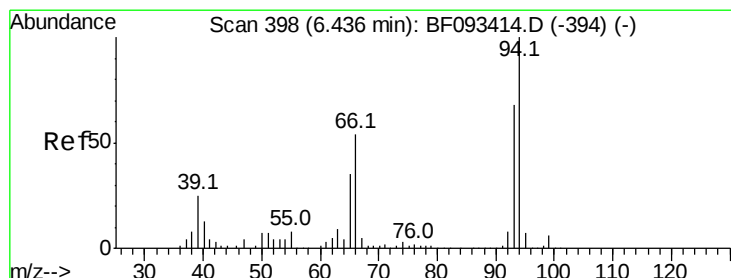
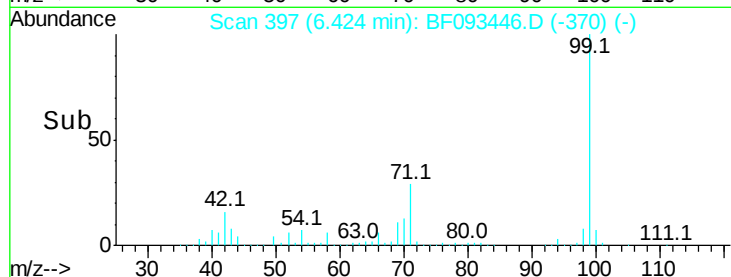
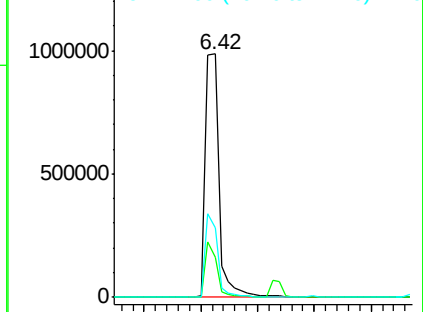
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 6.04 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

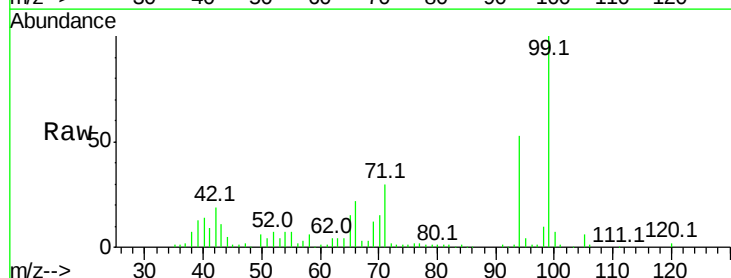
Tgt Ion: 94 Resp: 100358

Ion Ratio Lower Upper

94 100

65 27.9 21.4 61.4

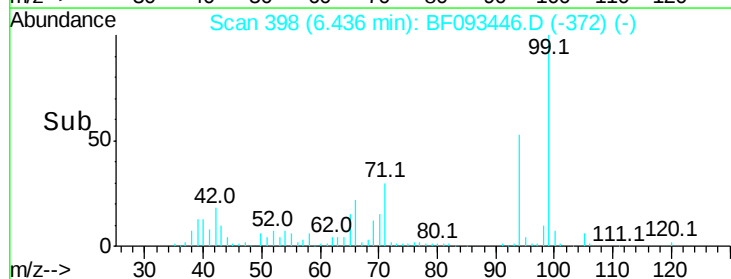
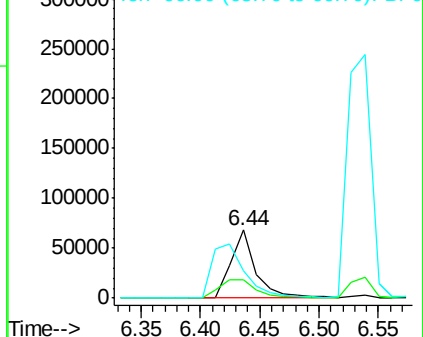
66 40.8 44.0 84.0#

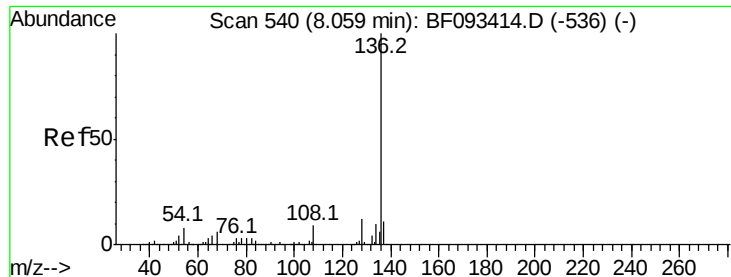


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 539

Delta R.T. -0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

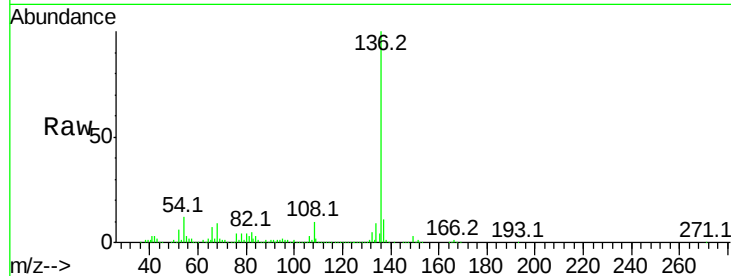
ClientSampleId :

HY-SB414

Tot Ion	Ratio	Resp	Lower	Upper
136	100	682186		
137	11.4	8.4	12.6	
54	12.5	4.5	6.7#	
68	9.0	3.6	5.4#	

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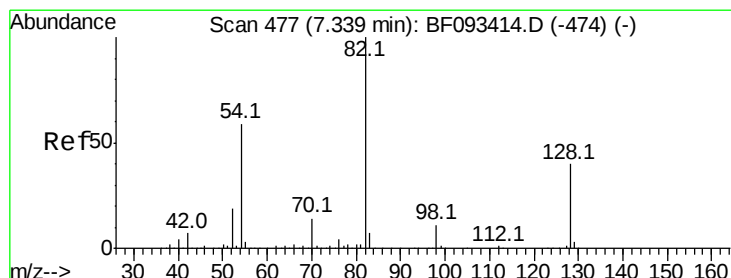
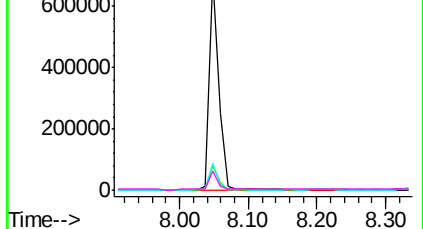
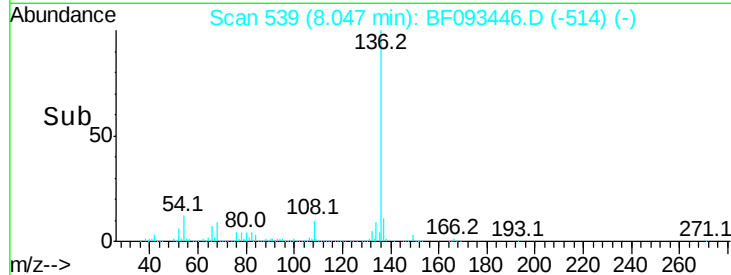


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 80.90 ng

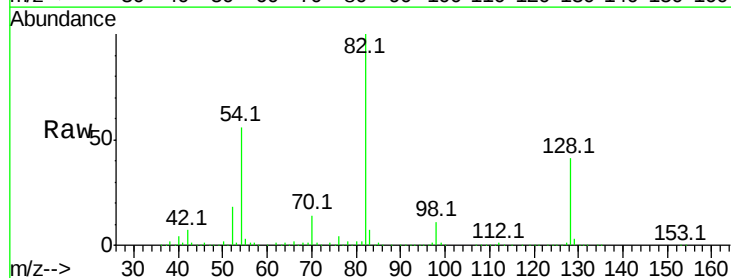
RT: 7.34 min Scan# 477

Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

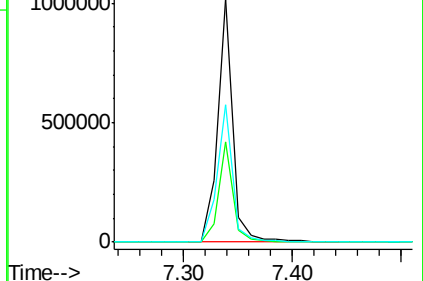
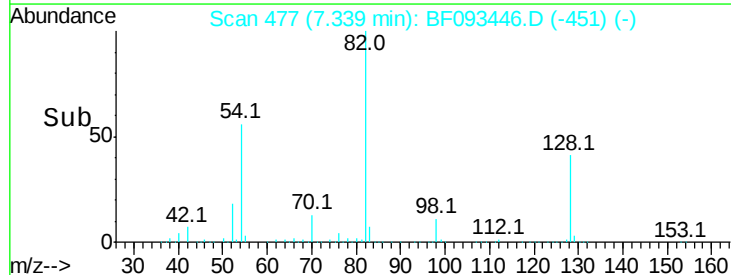
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	994641		
128	41.4	34.6	52.0	
54	56.4	39.5	59.3	

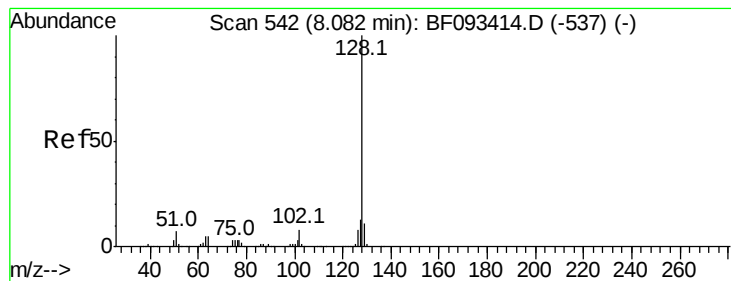


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 8.56 ng

RT: 8.07 min Scan# 541

Delta R.T. -0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

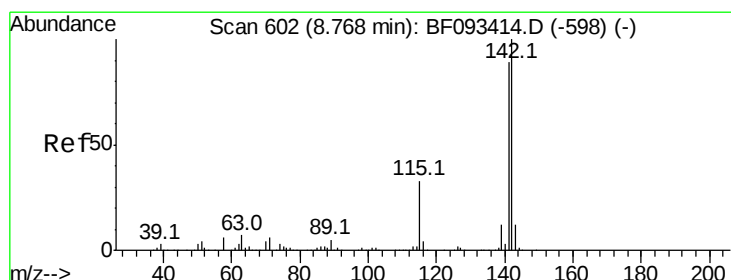
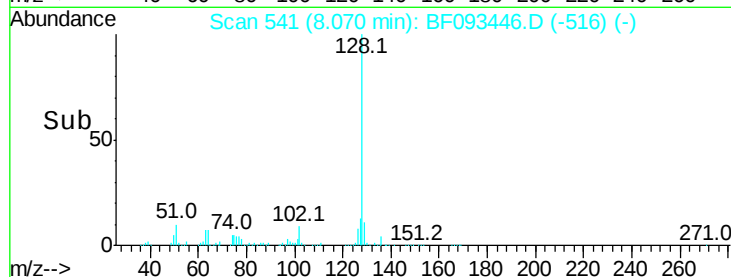
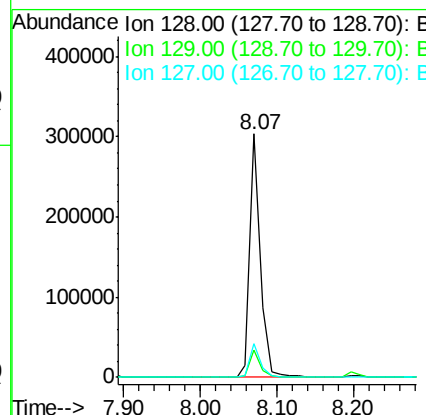
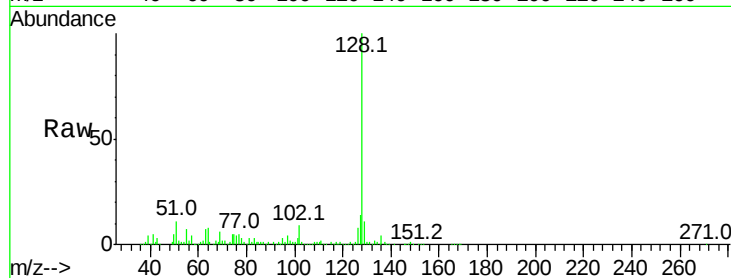
ClientSampleId :

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Tot Ion:	128	Resp:	292764
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.5	14.3
127	13.6	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 6.09 ng

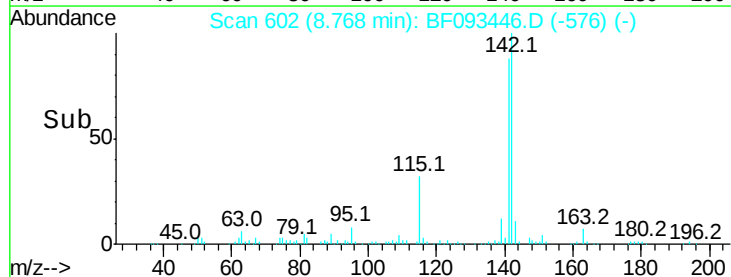
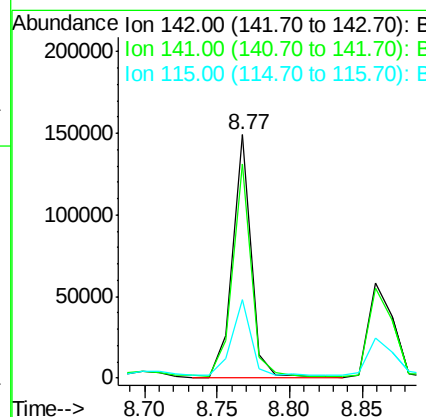
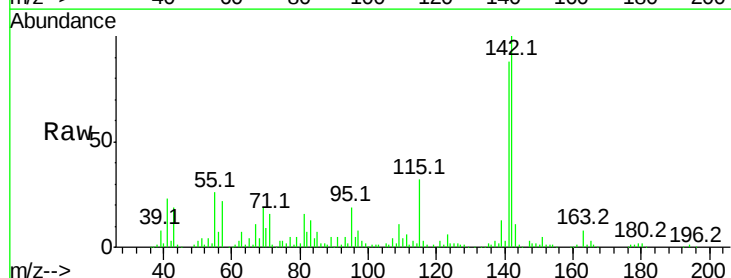
RT: 8.77 min Scan# 602

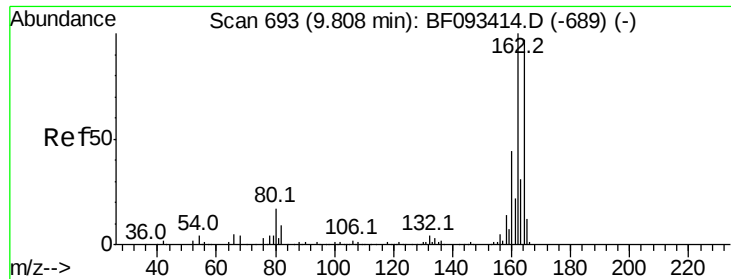
Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion:	142	Resp:	132420
Ion Ratio	Lower	Upper	
142	100		
141	87.9	71.0	106.6
115	32.0	28.3	42.5





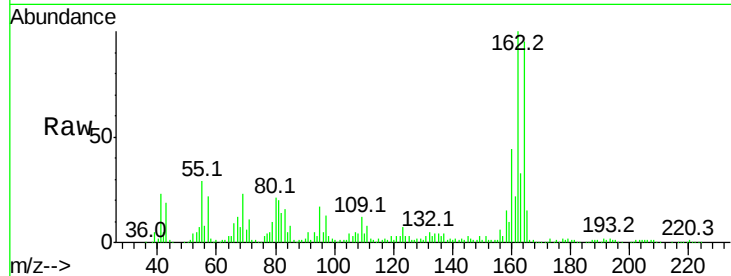
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 693
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Instrument :
BNA_F
ClientSampleId :
HY-SB414

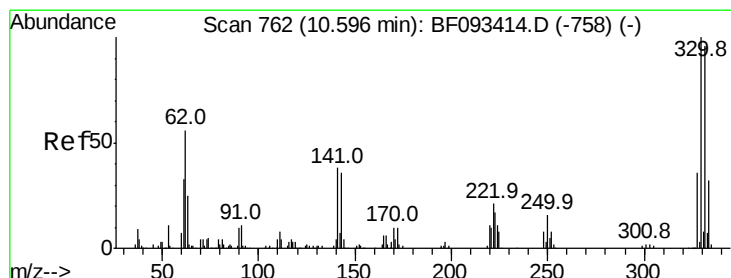
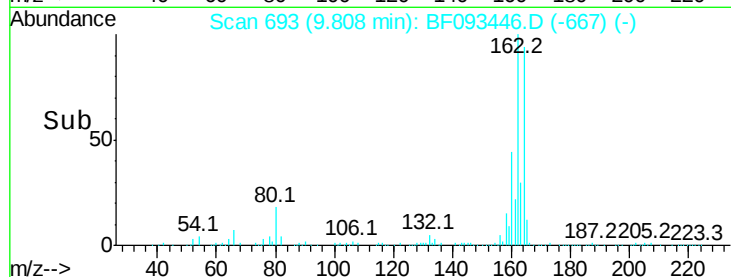
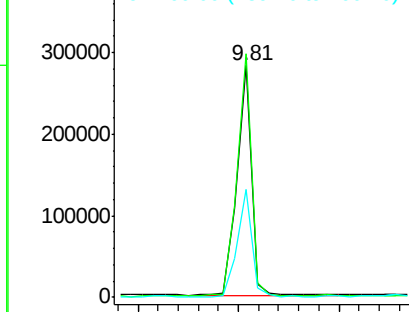
Tot Ion	Ratio	Resp	Lower	Upper
164	100	282619		
162	105.0		80.2	120.2
160	46.5		36.9	55.3

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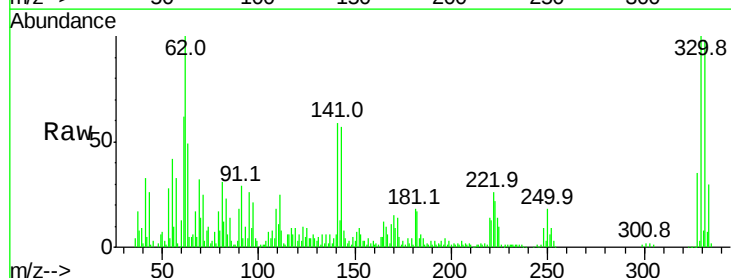


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

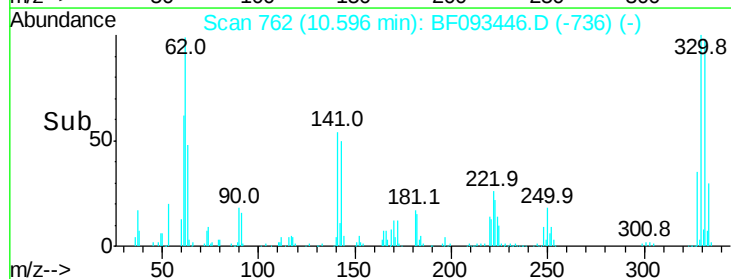
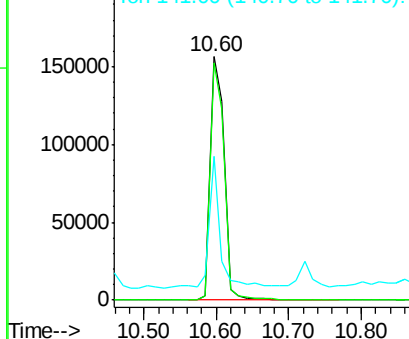


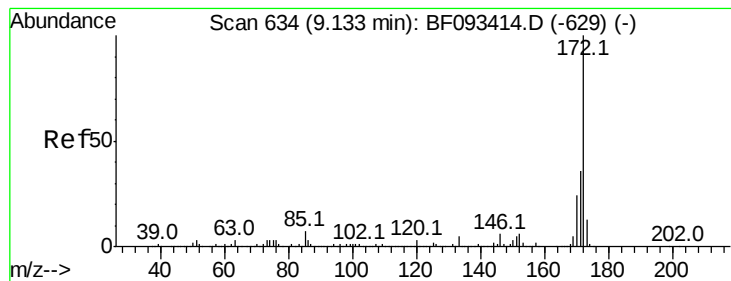
#41
2,4,6-Tribromophenol
Concen: 113.07 ng
RT: 10.60 min Scan# 762
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	208193		
332	97.0		77.4	116.2
141	42.9		34.1	51.1



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





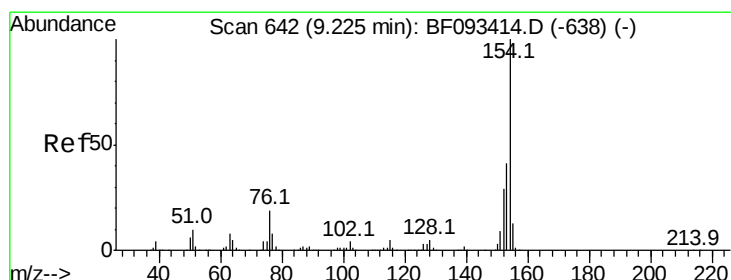
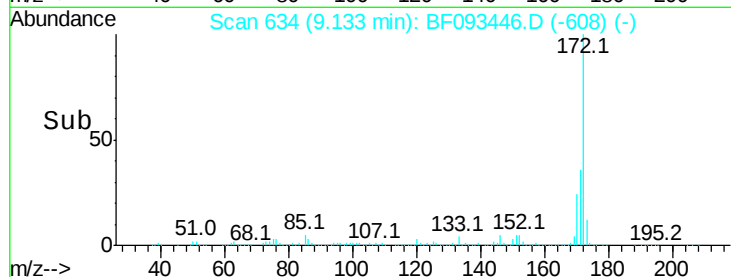
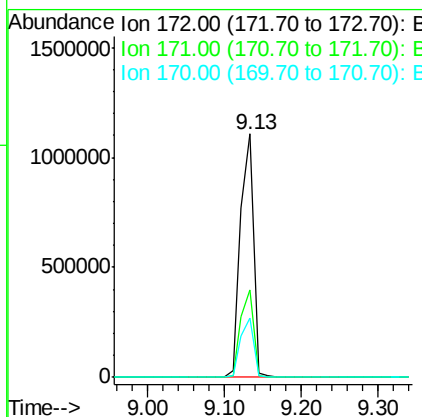
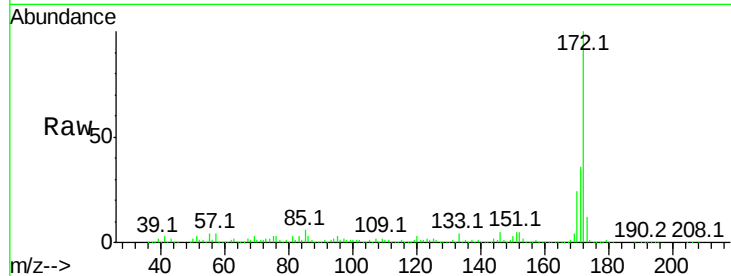
#44
2-Fluorobiphenyl
Concen: 88.16 ng
RT: 9.13 min Scan# 634
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.4	44.0
170	24.4	20.2	30.4

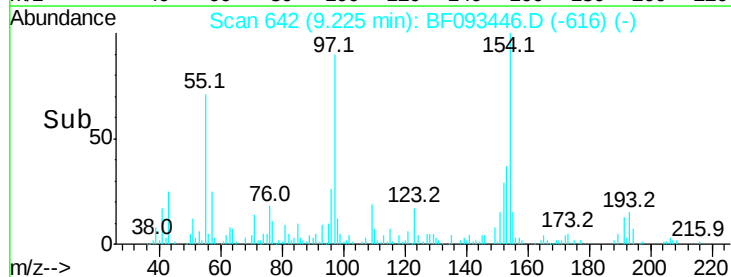
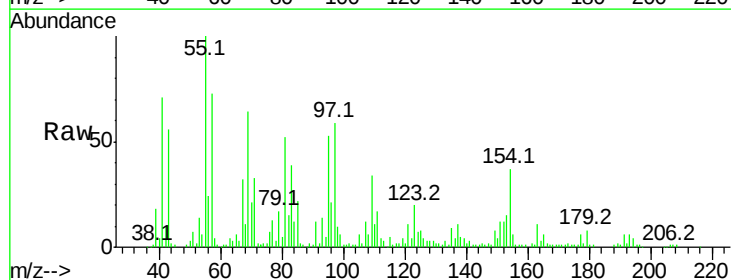
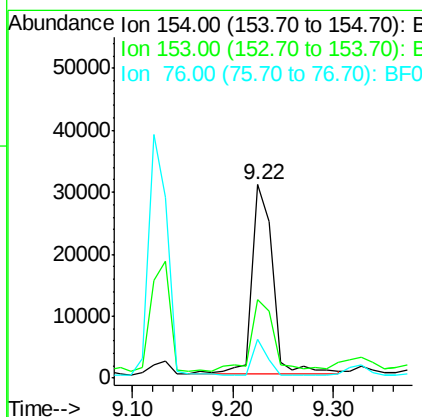
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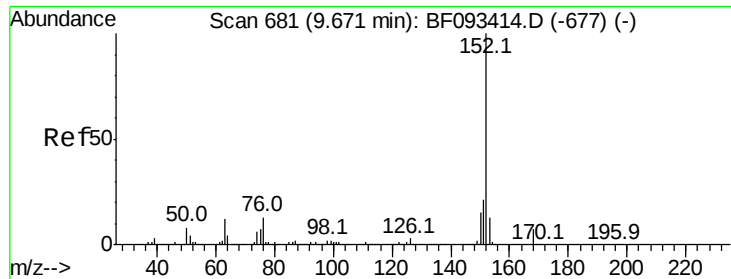
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#45
1,1'-Biphenyl
Concen: 2.17 ng
RT: 9.22 min Scan# 642
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.9	60.9
76	20.4	0.0	30.5





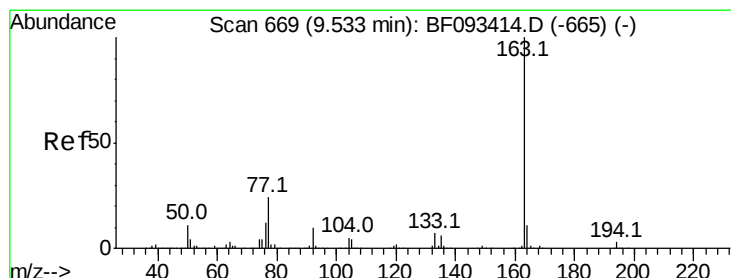
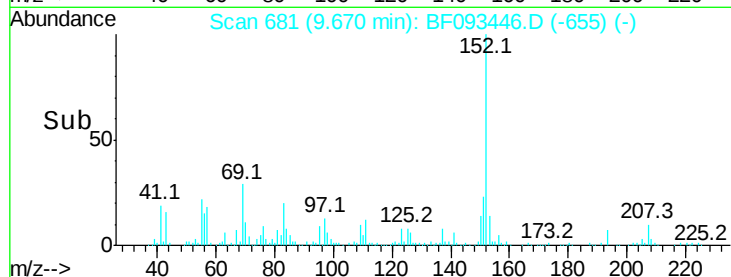
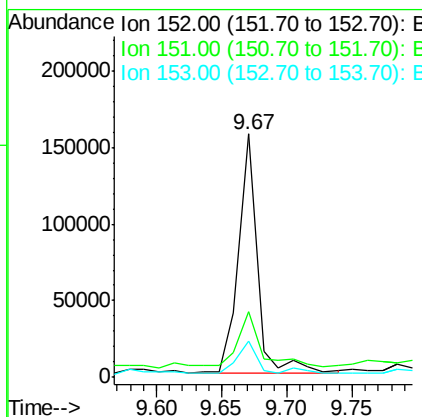
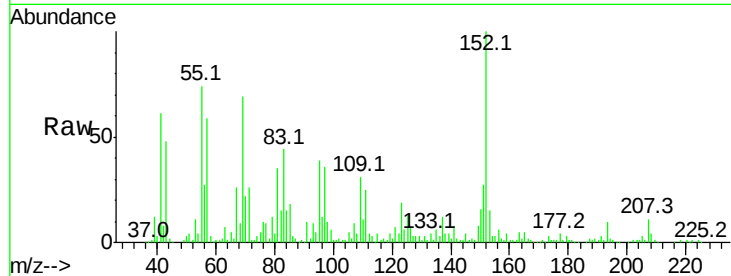
#48
Acenaphthylene
Concen: 6.03 ng
RT: 9.67 min Scan# 681
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Instrument :
BNA_F
ClientSampleId :
HY-SB414

Tot Ion	Ratio	Lower	Upper
152	100		
151	26.9	16.9	25.3#
153	14.6	11.4	17.2

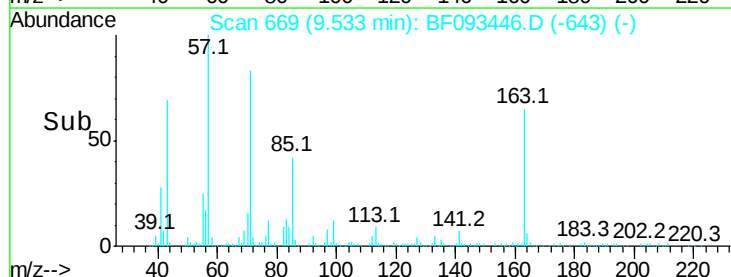
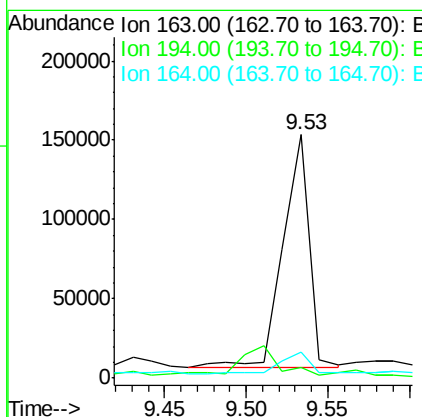
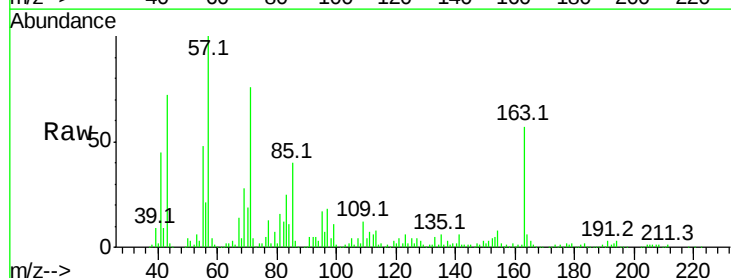
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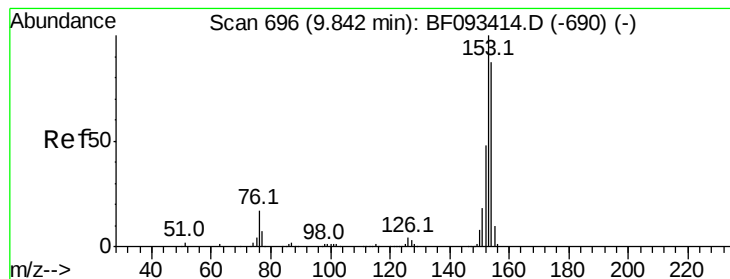
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3/10/2017 8:12:08 AM



#49
Dimethylphthalate
Concen: 8.66 ng
RT: 9.53 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF093446.D
Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.0	4.4#
164	10.6	8.0	12.0





#51

Acenaphthene

Concen: 3.01 ng

RT: 9.84 min Scan# 696

Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

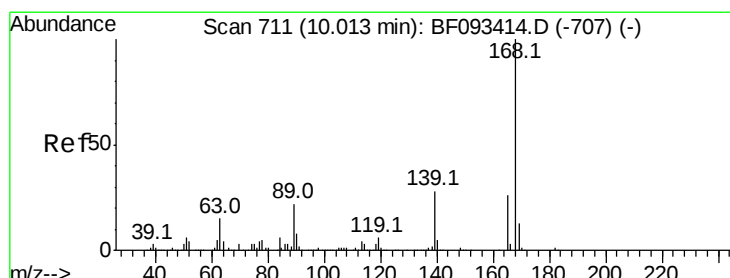
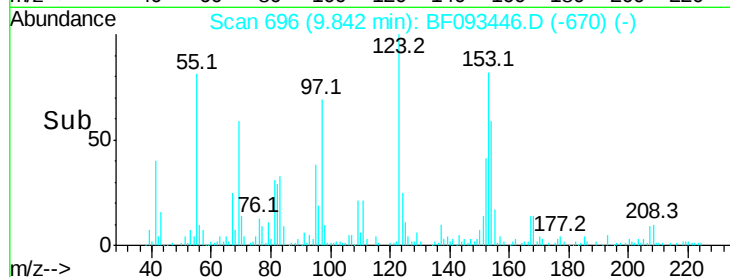
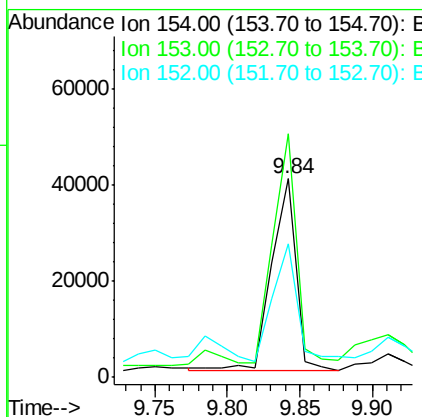
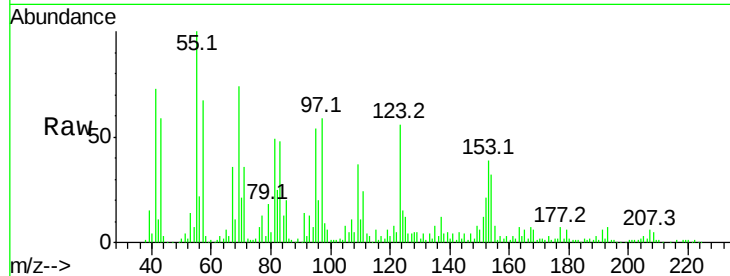
ClientSampleId :

HY-SB414

Tot Ion:154 Resp: 46240
 Ion Ratio Lower Upper
 154 100
 153 122.9 88.6 133.0
 152 67.1 41.6 62.4#

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#54

Dibenzofuran

Concen: 6.17 ng

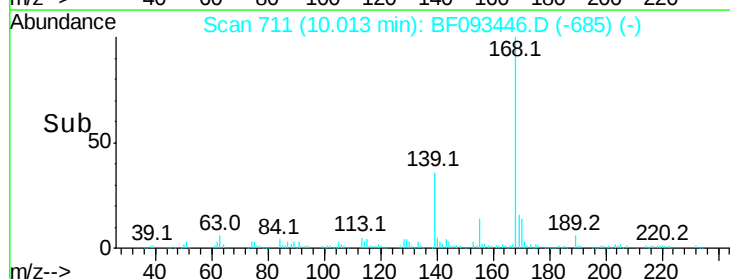
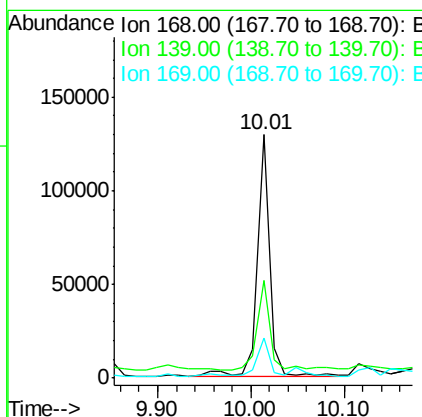
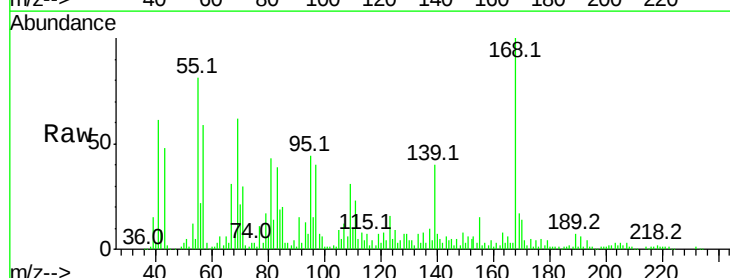
RT: 10.01 min Scan# 711

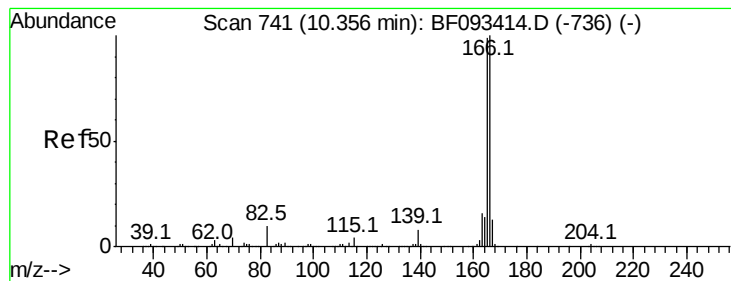
Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion:168 Resp: 118655
 Ion Ratio Lower Upper
 168 100
 139 40.0 32.6 49.0
 169 16.6 11.3 16.9





#57

Fluorene

Concen: 6.45 ng

RT: 10.36 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

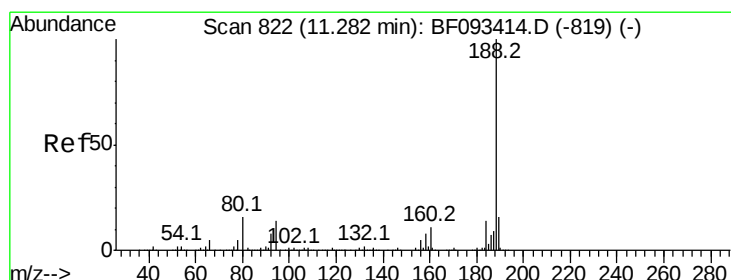
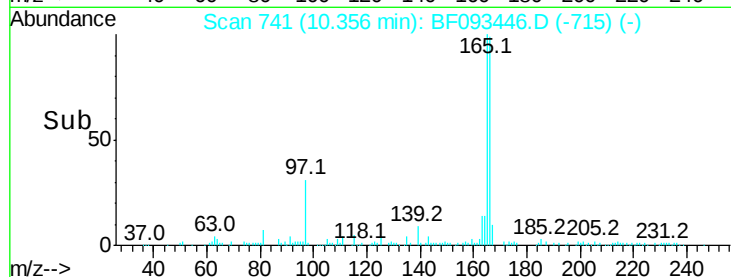
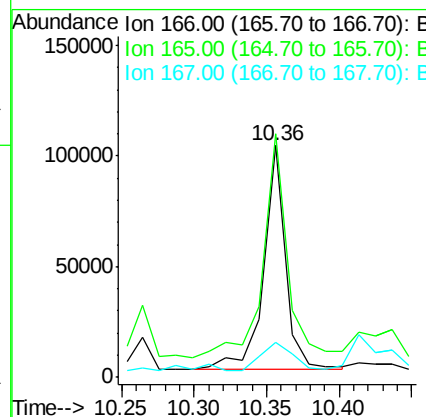
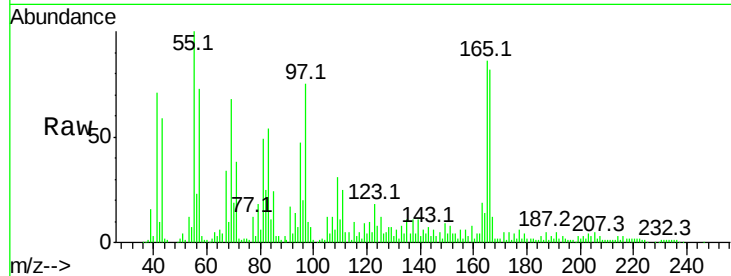
ClientSampleId :

HY-SB414

Tot Ion:	166	Resp:	105190
Ion Ratio	Lower	Upper	
166	100		
165	105.0	77.8	116.8
167	14.9	10.8	16.2

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#63

Phenanthrene-d10

Concen: 20.00 ng

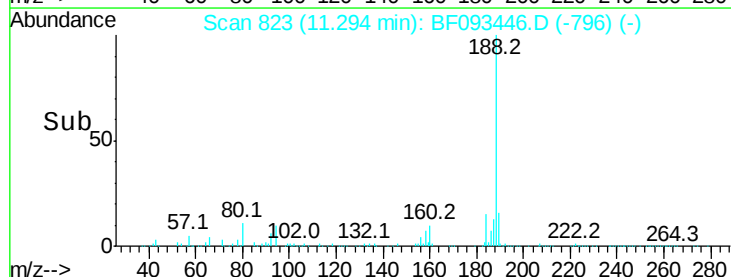
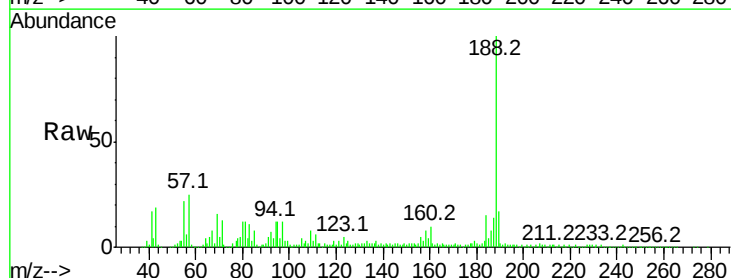
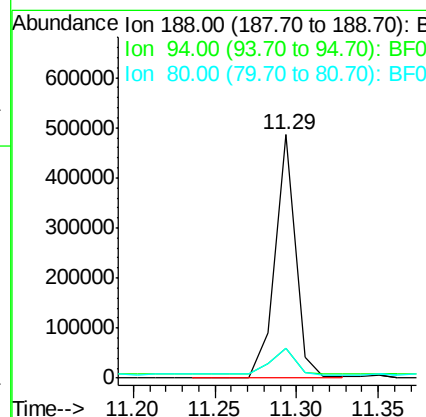
RT: 11.29 min Scan# 823

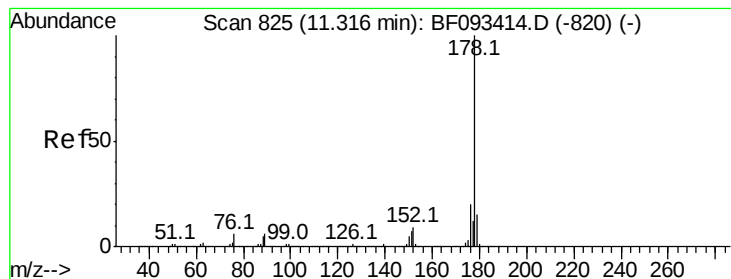
Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion:	188	Resp:	423440
Ion Ratio	Lower	Upper	
188	100		
94	12.2	10.0	15.0
80	12.0	11.2	16.8





#70

Phenanthrene

Concen: 30.37 ng

RT: 11.32 min Scan# 825

Delta R.T. -0.00 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

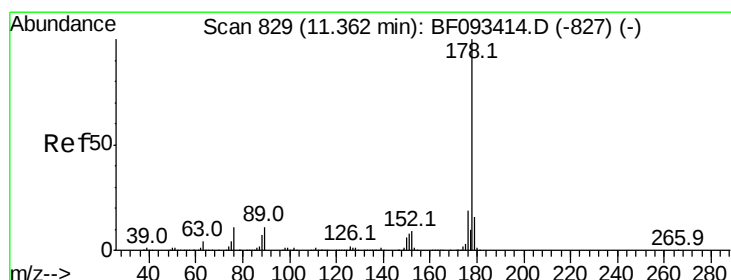
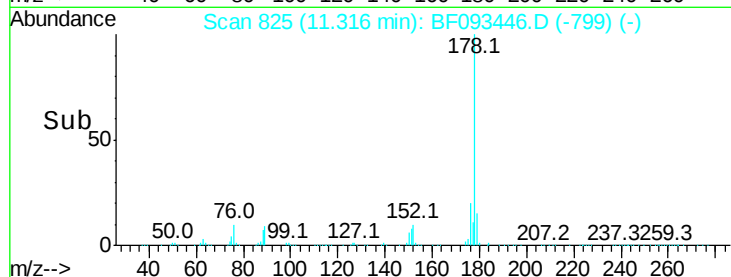
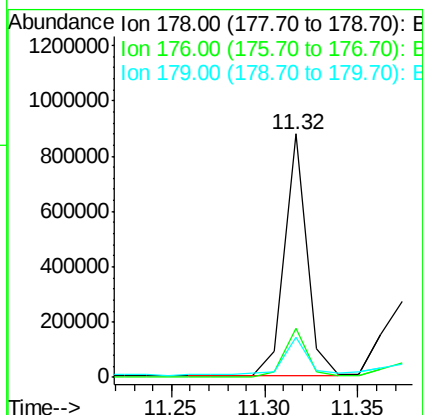
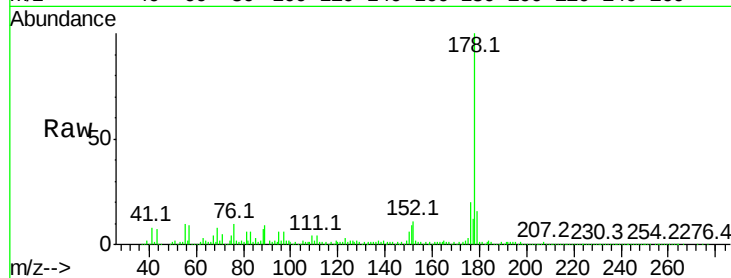
ClientSampleId :

HY-SB414

Tot Ion:178	Resp:	733966
Ion Ratio	Lower	Upper
178	100	
176	20.0	16.6 25.0
179	16.2	12.8 19.2

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#71

Anthracene

Concen: 12.75 ng

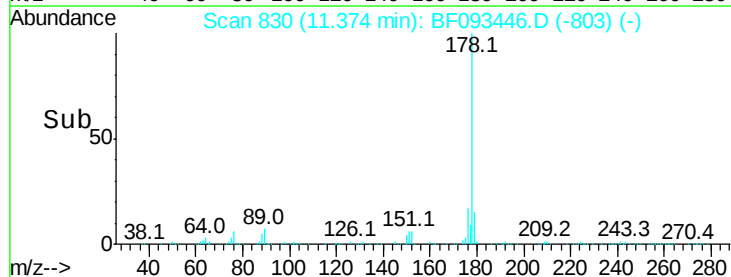
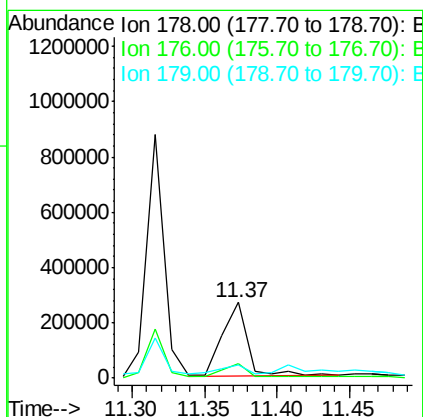
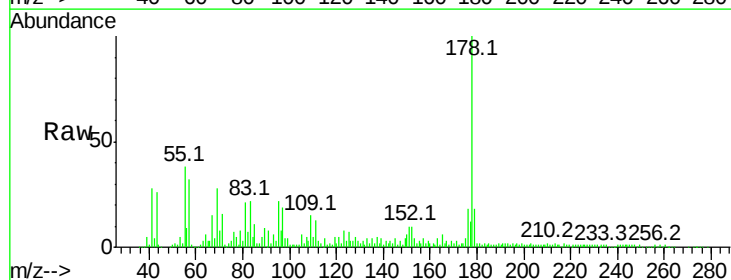
RT: 11.37 min Scan# 830

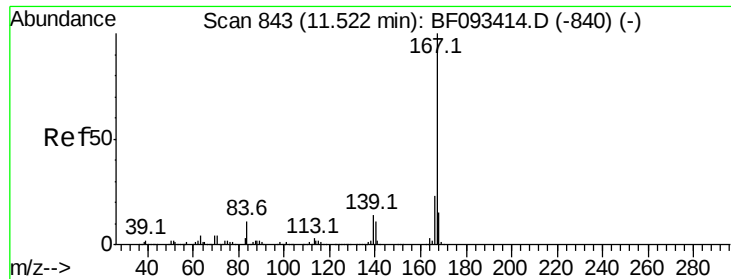
Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion:178	Resp:	311632
Ion Ratio	Lower	Upper
178	100	
176	18.4	15.9 23.9
179	17.7	13.2 19.8





#72

Carbazole

Concen: 3.23 ng

RT: 11.53 min Scan# 844

Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

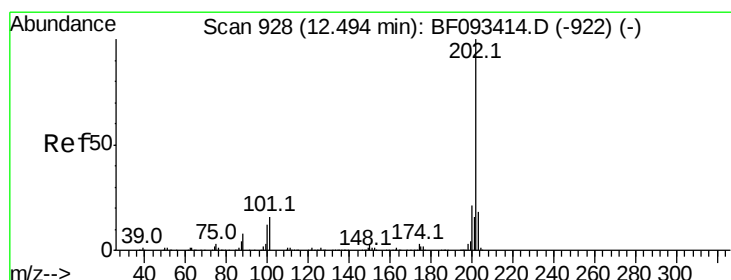
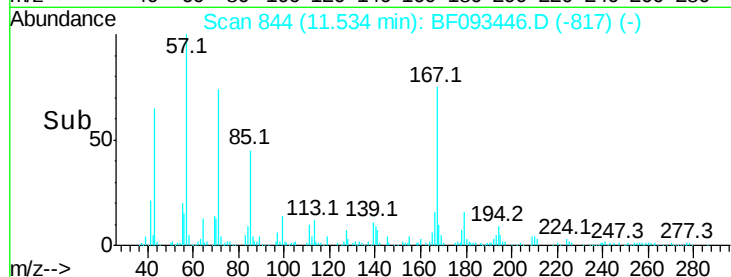
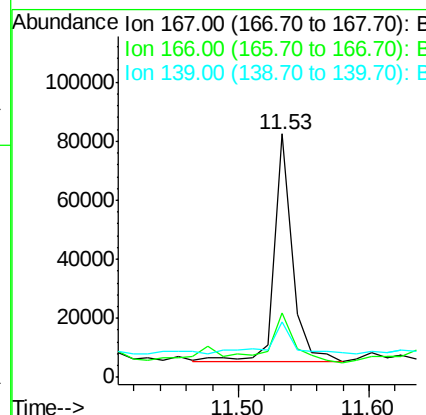
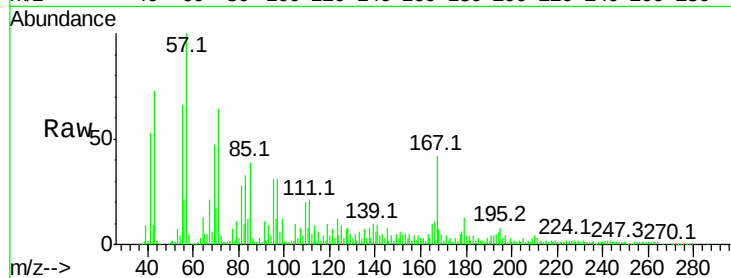
ClientSampleId :

HY-SB414

Tot Ion	Ratio	Lower	Upper
167	100		
166	26.6	18.2	27.2
139	22.6	11.4	17.2

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#74

Fluoranthene

Concen: 44.44 ng

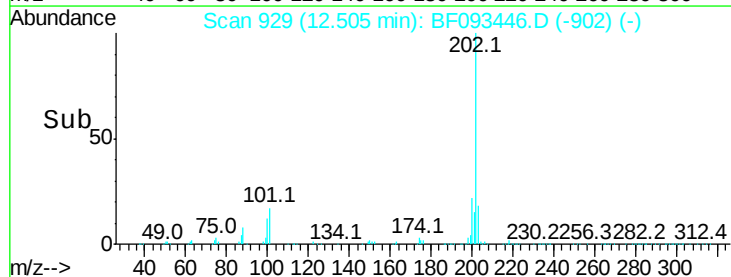
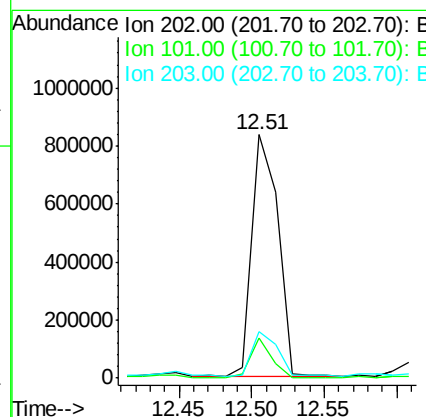
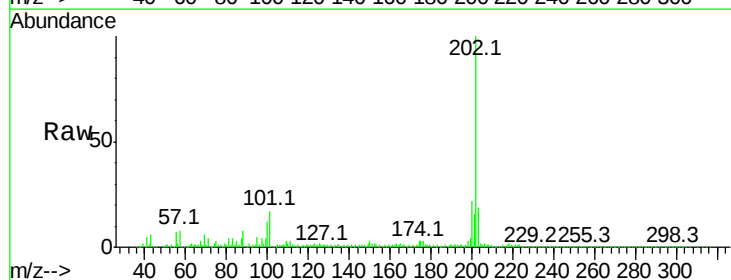
RT: 12.51 min Scan# 929

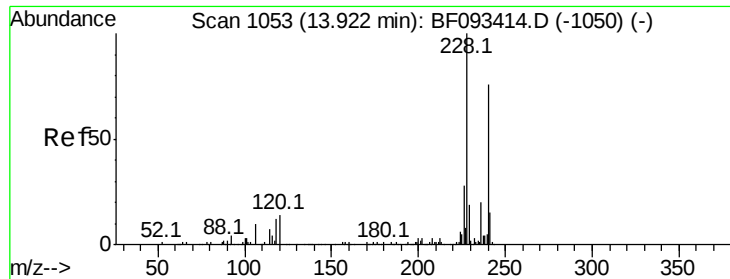
Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.7	0.0	34.6
203	19.0	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1054

Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

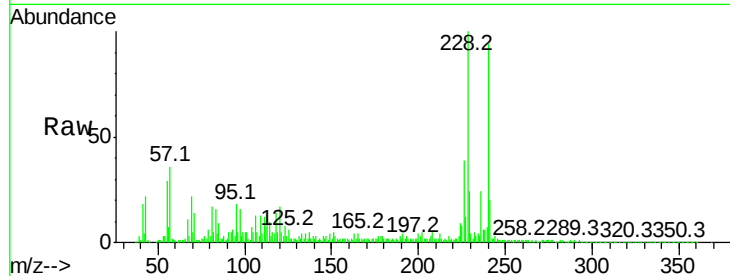
ClientSampleId :

HY-SB414

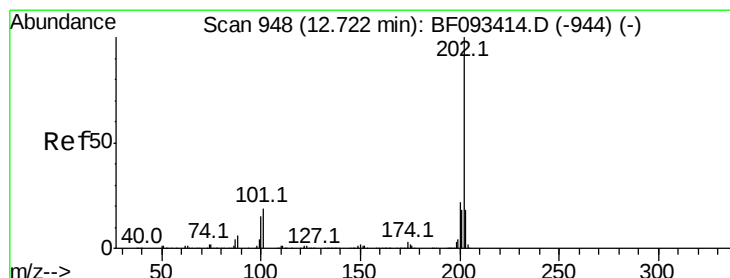
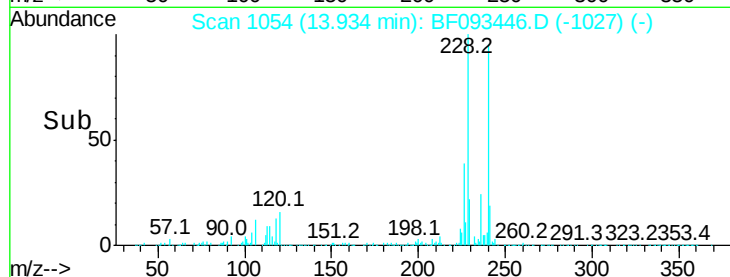
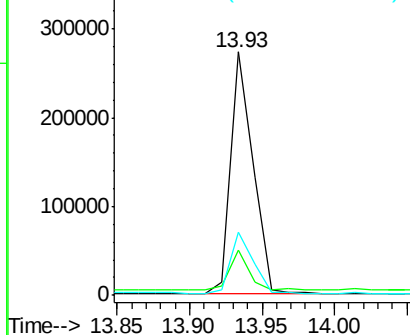
Tot Ion:	240	Resp:	290871
Ion Ratio	Lower	Upper	
240	100		
120	18.5	12.9	19.3
236	25.9	20.9	31.3

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 57.15 ng

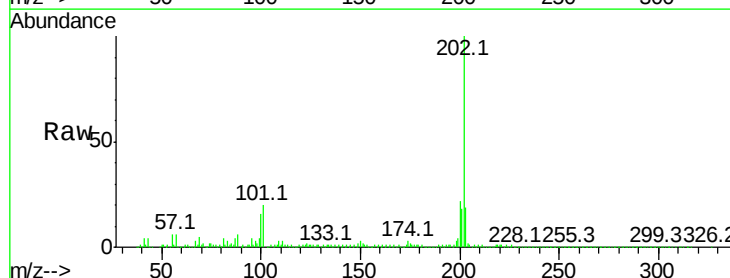
RT: 12.73 min Scan# 949

Delta R.T. 0.01 min

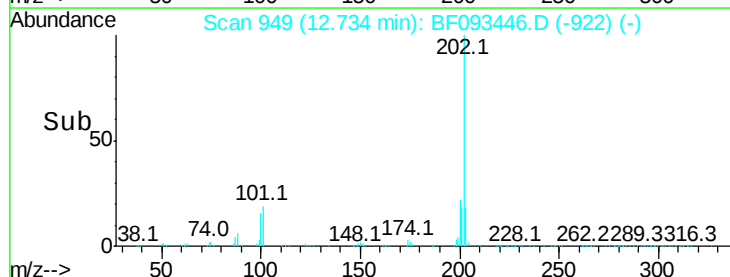
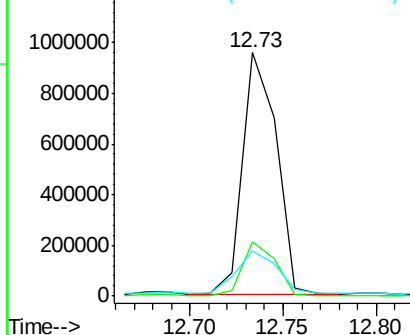
Lab File: BF093446.D

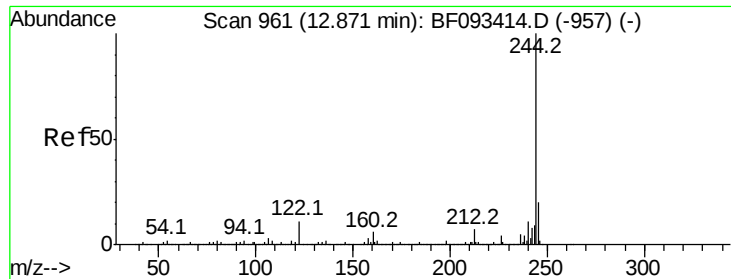
Acq: 8 Mar 2017 23:23

Tgt Ion:	202	Resp:	1208949
Ion Ratio	Lower	Upper	
202	100		
200	22.2	17.7	26.5
203	18.8	14.7	22.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





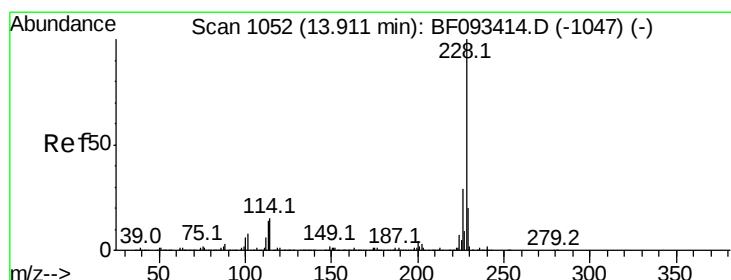
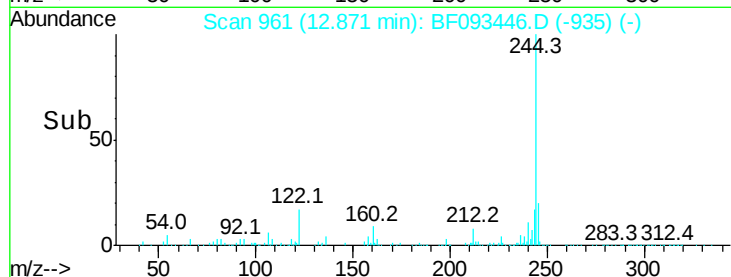
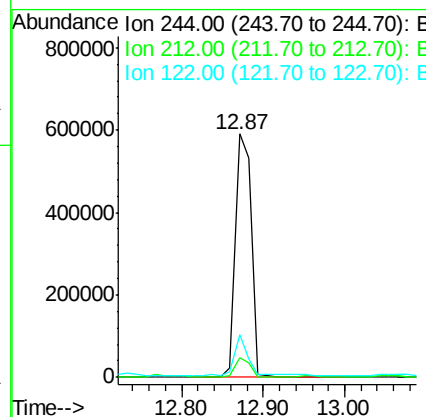
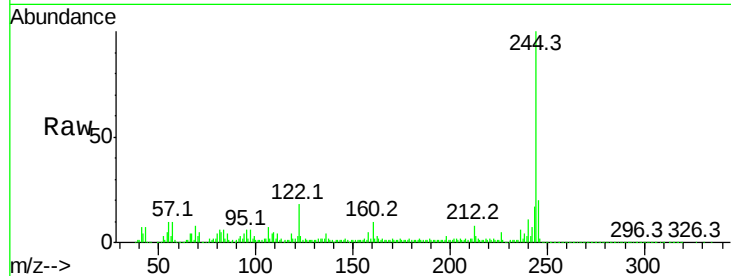
#78
 Terphenyl-d14
 Concen: 70.94 ng
 RT: 12.87 min Scan# 961
 Delta R.T. -0.00 min
 Lab File: BF093446.D
 Acq: 8 Mar 2017 23:23

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB414

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.2
122	17.7	11.4	17.2#

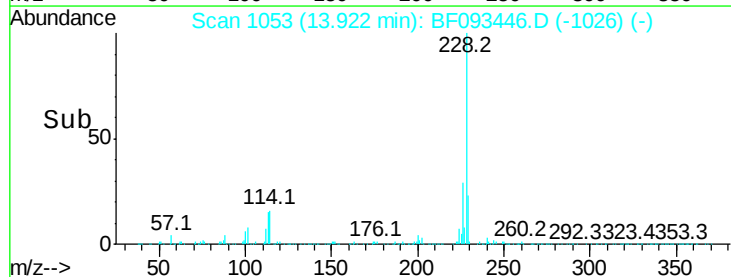
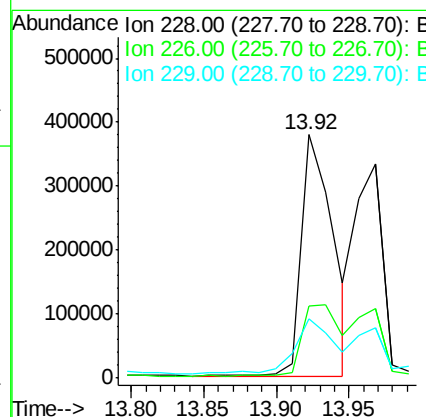
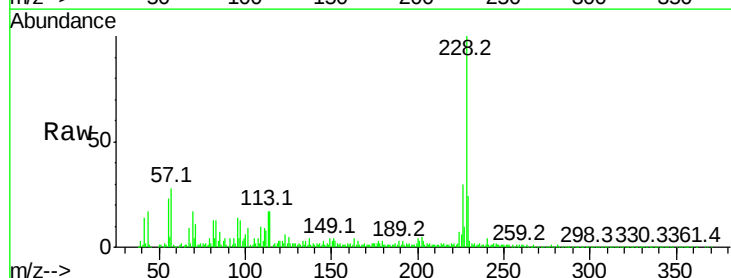
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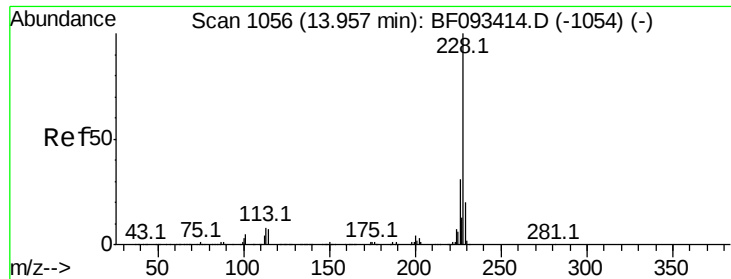
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#80
 Benzo(a)anthracene
 Concen: 33.46 ng
 RT: 13.92 min Scan# 1053
 Delta R.T. 0.01 min
 Lab File: BF093446.D
 Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.4	33.6
229	24.4	16.2	24.4#





#82

Chrysene

Concen: 28.08 ng/mL

RT: 13.97 min Scan# 1057

Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

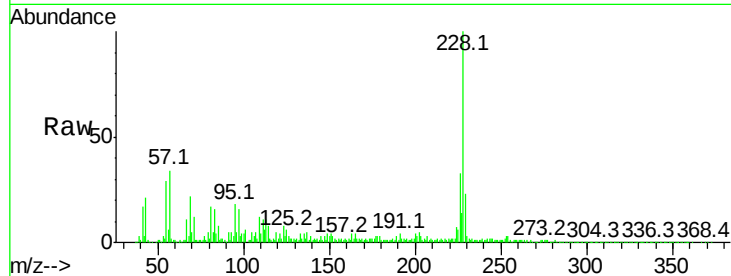
ClientSampleID :

HY-SB414

Tot Ion:	228	Resp:	446329
Ion Ratio	Lower	Upper	
228	100		
226	32.6	25.4	38.0
229	23.2	16.2	24.2

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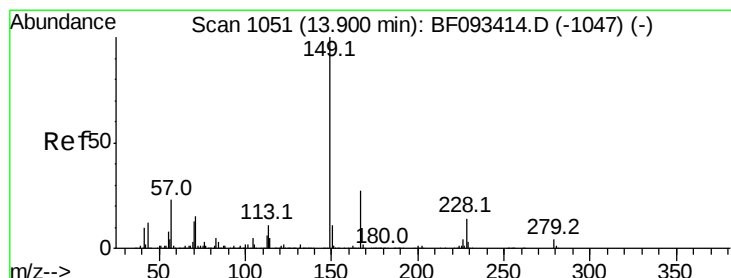
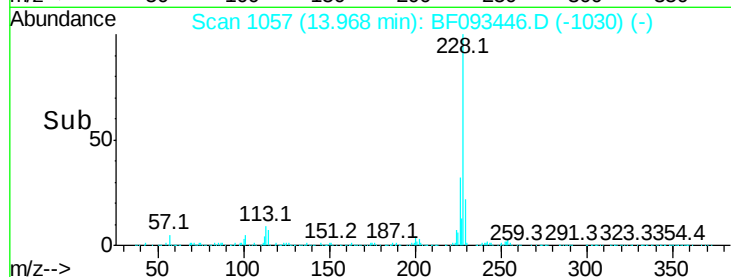
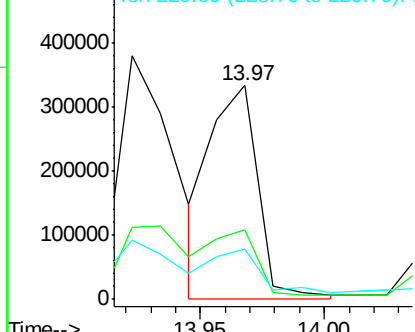


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.41 ng/mL

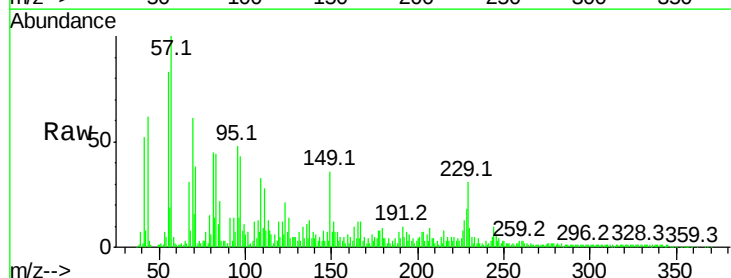
RT: 13.91 min Scan# 1052

Delta R.T. 0.01 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion:	149	Resp:	29931
Ion Ratio	Lower	Upper	
149	100		
167	33.3	20.2	30.4#
279	6.3	1.8	2.8#

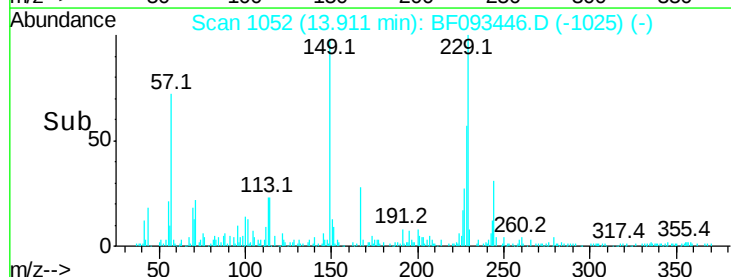
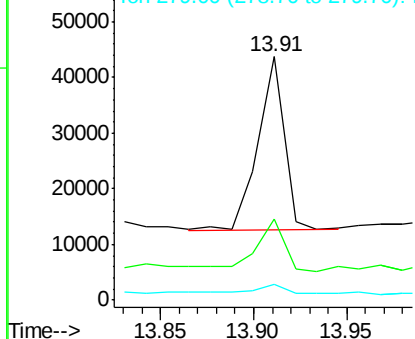


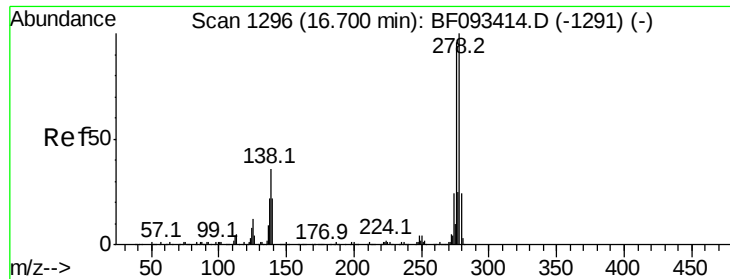
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





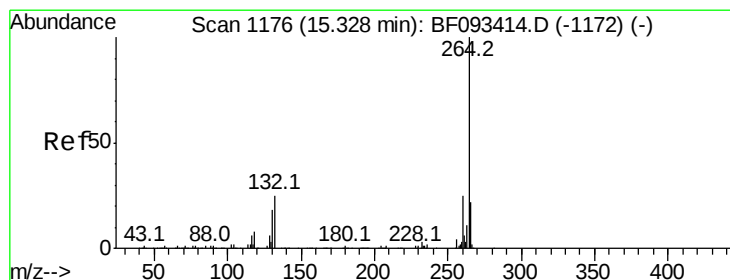
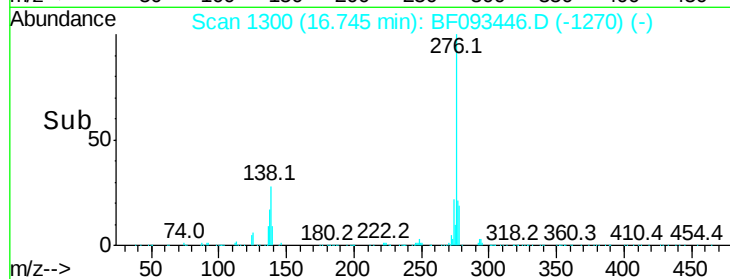
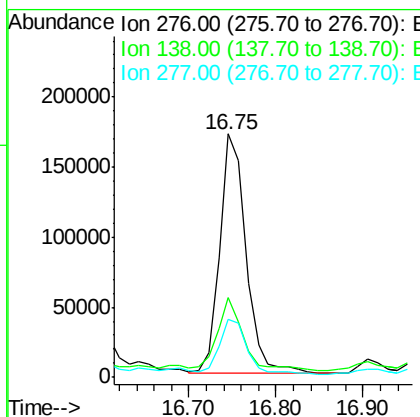
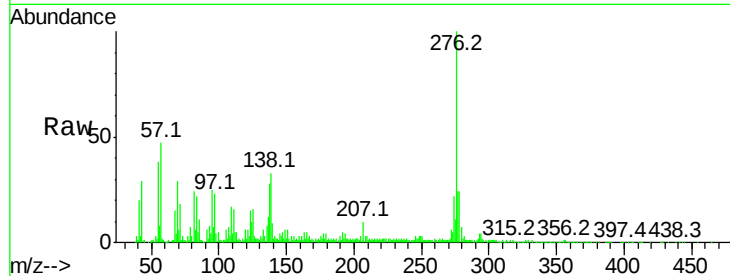
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 27.35 ng
 RT: 16.75 min Scan# 1300
 Delta R.T. 0.05 min
 Lab File: BF093446.D
 Acq: 8 Mar 2017 23:23

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB414

Tot Ion	Ratio	Resp	Lower	Upper
276	100	363842		
138	31.1		21.8	32.6
277	23.8		20.2	30.4

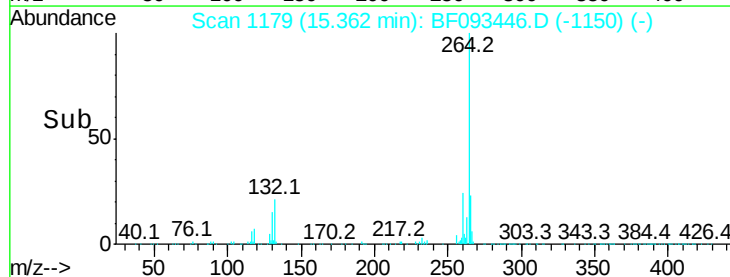
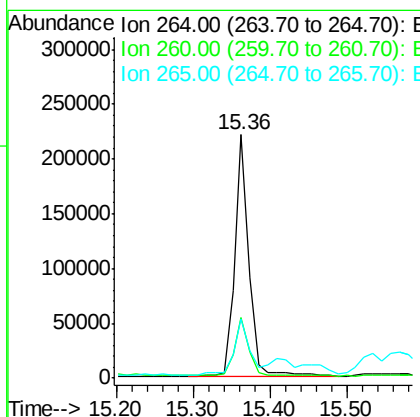
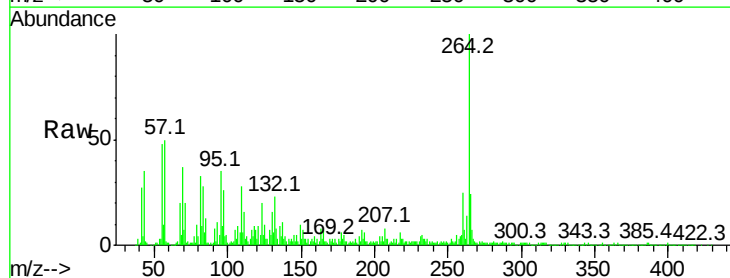
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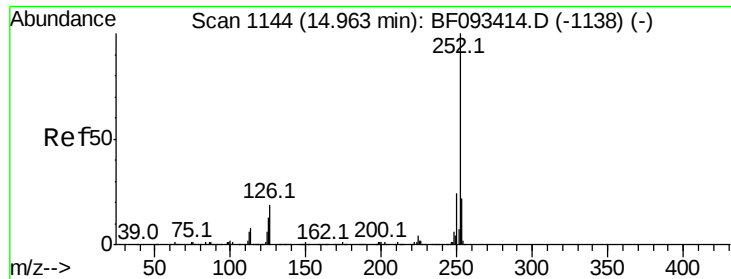
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1179
 Delta R.T. 0.03 min
 Lab File: BF093446.D
 Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	290142		
260	24.8		19.2	28.8
265	24.2		17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 39.86 ng m

RT: 14.96 min Scan# 1144

Delta R.T. 0.02 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

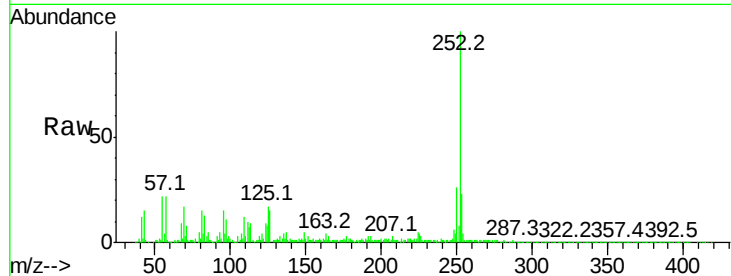
ClientSampleId :

HY-SB414

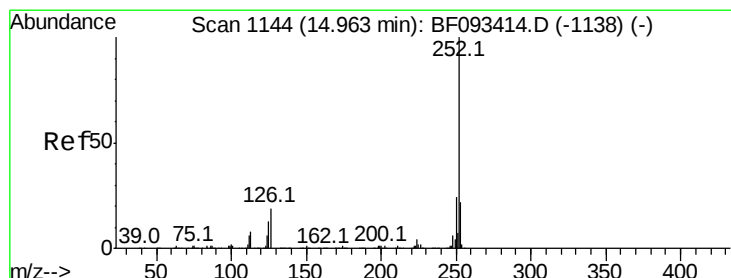
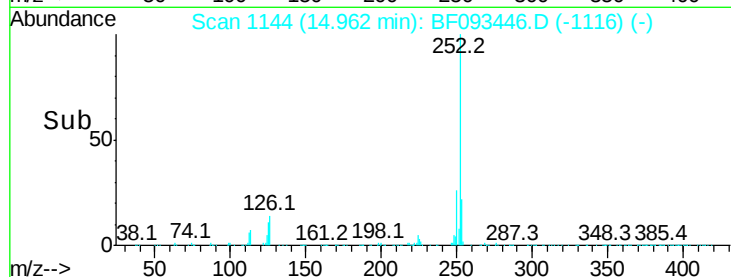
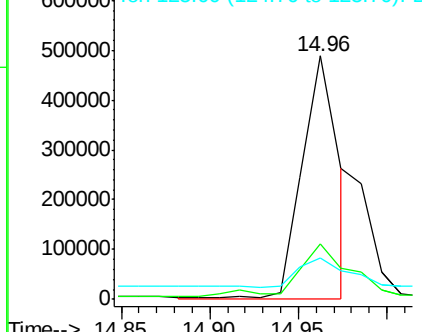
Tot Ion:	252	Resp:	704337
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.2	27.4
125	16.8	9.8	14.6#

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 12.54 ng m

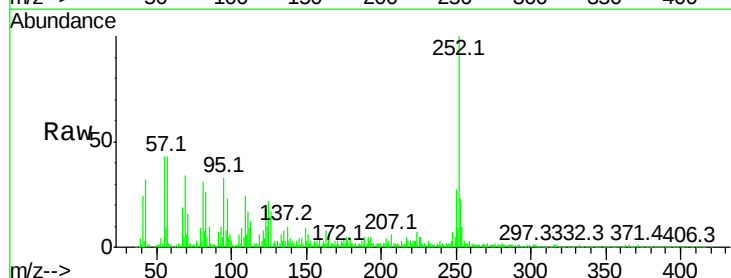
RT: 14.97 min Scan# 1145

Delta R.T. 0.01 min

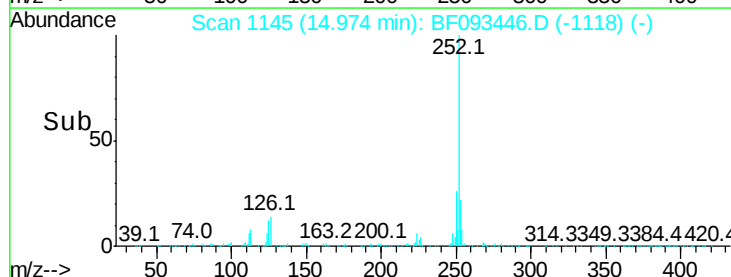
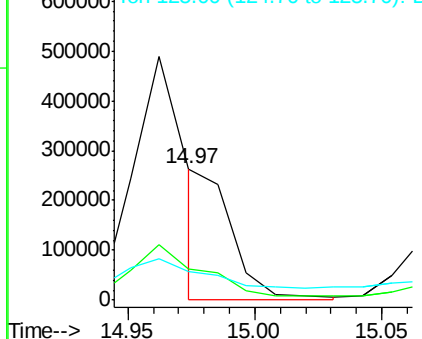
Lab File: BF093446.D

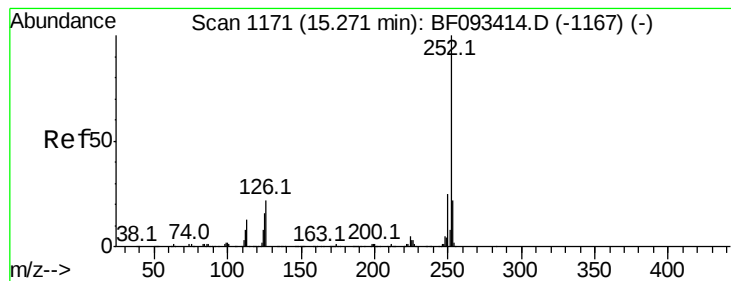
Acq: 8 Mar 2017 23:23

Tgt Ion:	252	Resp:	213645
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.5	27.7
125	21.6	8.9	13.3#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 34.46 ng

RT: 15.31 min Scan# 1174

Delta R.T. 0.03 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

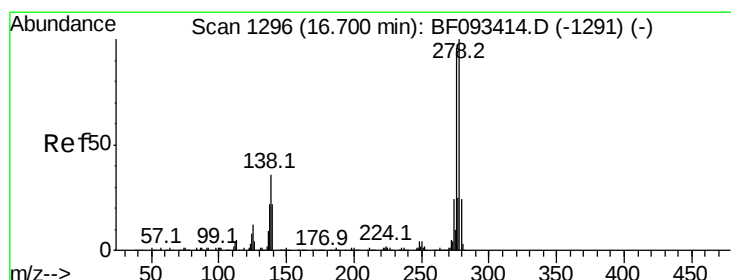
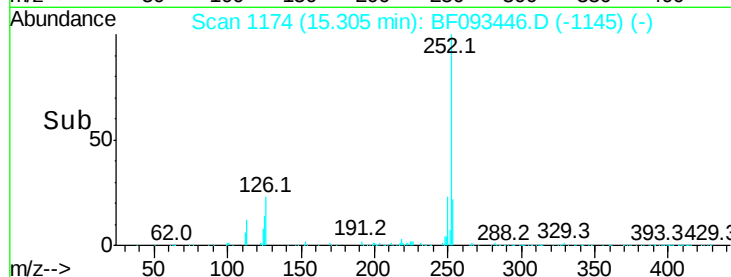
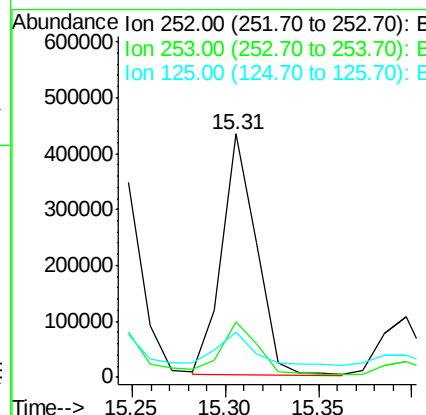
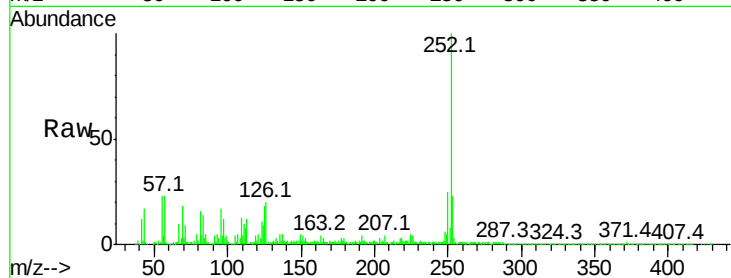
ClientSampleId :

HY-SB414

Tot Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.0	18.2	27.2	
125	18.5	10.0	15.0	

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#90

Dibenzo(a,h)anthracene

Concen: 6.41 ng

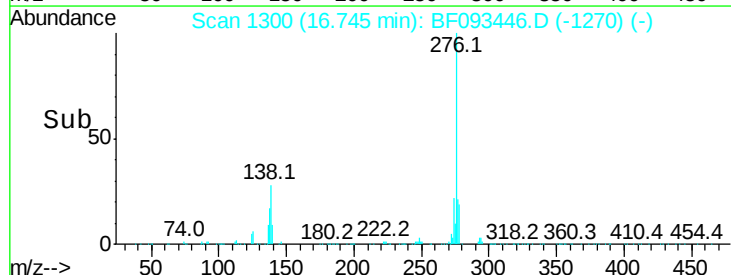
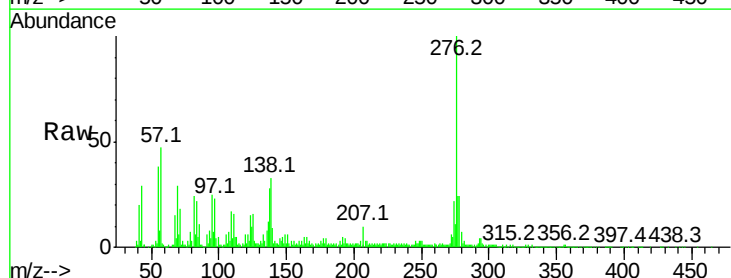
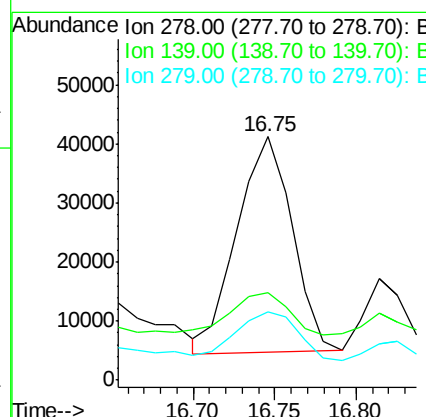
RT: 16.75 min Scan# 1300

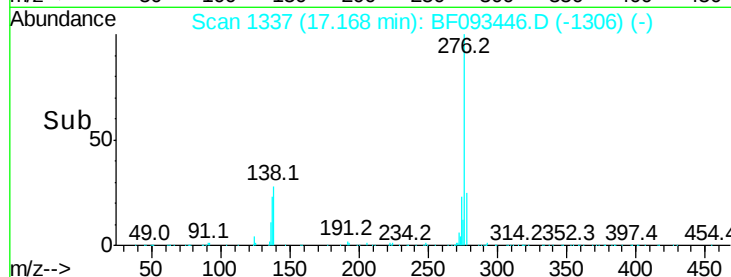
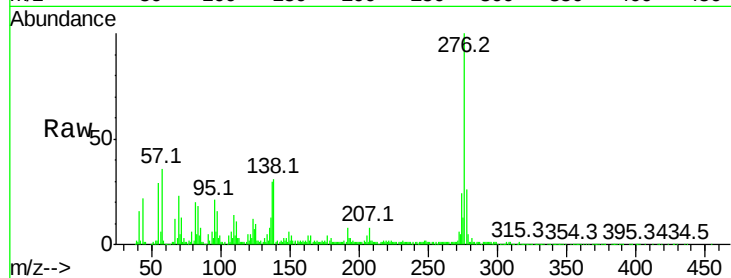
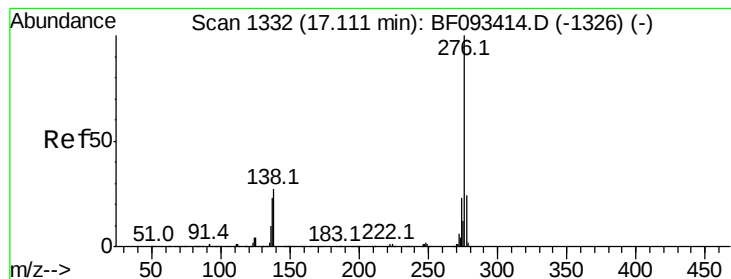
Delta R.T. 0.05 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
278	100			
139	36.1	14.8	22.2	
279	27.9	19.8	29.6	





#91

Benzo(a,h,i)perylene

Concen: 30.71 ng

RT: 17.17 min Scan# 1337

Delta R.T. 0.06 min

Lab File: BF093446.D

Acq: 8 Mar 2017 23:23

Instrument :

BNA_F

ClientSampleId :

HY-SB414

Tot Ion	Ratio	Resp	Lower	Upper
276	100	421109		
277	26.1	19.2	28.8	
138	30.7	16.0	24.0	

Manual Integrations
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