

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\
 Data File : BF093128.D
 Acq On : 24 Feb 2017 2:20
 Operator : SJ/MA
 Sample : I1955-07
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Manual Integrations
 APPROVED

mohammad
 2/24/2017 2:11:29 PM

Quant Time: Feb 24 03:10:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	161384	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	575062	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	238737	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	330307	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	309328	20.00	ng	-0.01
86) Perylene-d12	15.44	264	249501	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	1183661	125.83	ng	0.00
7) Phenol-d6	6.49	99	1336778	110.45	ng	0.00
23) Nitrobenzene-d5	7.41	82	857203	83.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	200114	115.89	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1237570	93.91	ng	-0.01
78) Terphenyl-d14	12.95	244	650857	49.44	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	6.38	77	30942	3.57	ng	# 84
10) Phenol	6.50	94	69078	4.88	ng	90
20) 3+4-Methylphenols	7.26	107	58968	5.54	ng	# 66
31) Naphthalene	8.16	128	1122755	38.51	ng	98
37) 2-Methylnaphthalene	8.84	142	50028	2.67	ng	95
49) Dimethylphthalate	9.60	163	246533	15.33	ng	99
70) Phenanthrene	11.39	178	320755	16.95	ng	98
71) Anthracene	11.44	178	93497	4.92	ng	97
73) Di-n-butylphthalate	11.93	149	102651	5.23	ng	99
74) Fluoranthene	12.59	202	631224	32.34	ng	93
77) Pyrene	12.81	202	614229	26.53	ng	100
80) Benzo(a)anthracene	14.00	228	467651	24.72	ng	98
82) Chrysene	14.03	228	446656m	25.22	ng	
85) Indeno(1,2,3-cd)pyrene	16.84	276	228771	16.67	ng	96
87) Benzo(b)fluoranthene	15.03	252	496959m	30.26	ng	
88) Benzo(k)fluoranthene	15.04	252	234309m	16.52	ng	
89) Benzo(a)pyrene	15.38	252	403056	28.37	ng	98
90) Dibenzo(a,h)anthracene	16.84	278	60582	5.28	ng	# 85
91) Benzo(a,h,i)perylene	17.27	276	217382	18.74	ng	# 91

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

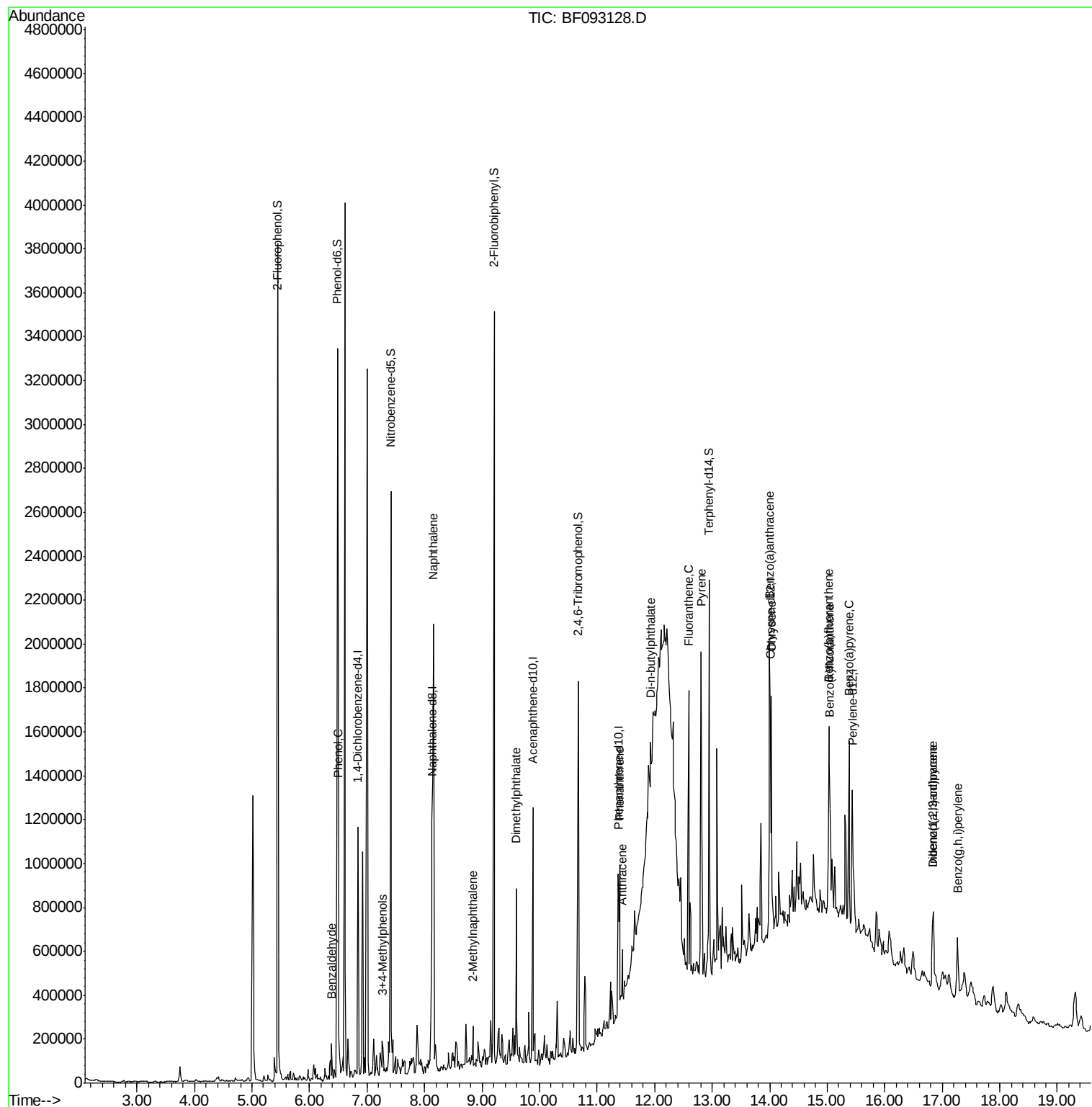
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\
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ALS Vial : 26 Sample Multiplier: 1

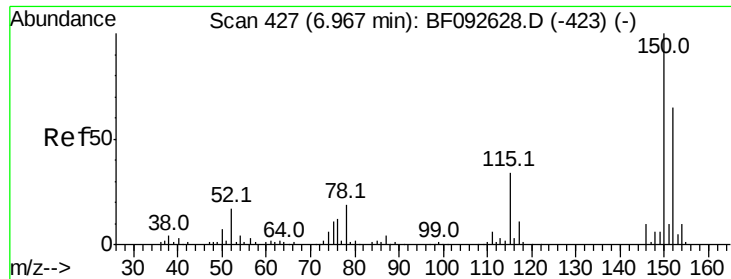
Instrument :
BNA_F
ClientSampleId :
B1-4

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#1

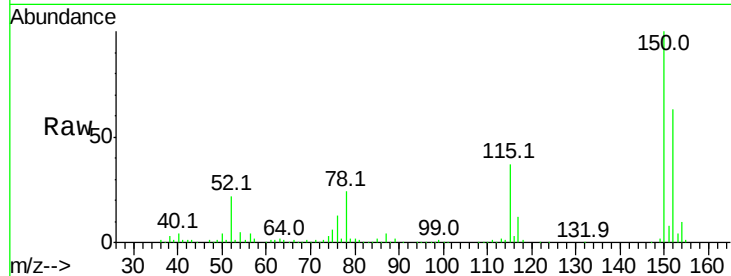
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.84 min Scan# 416
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	124.9	187.3
115	58.1	46.0	69.0

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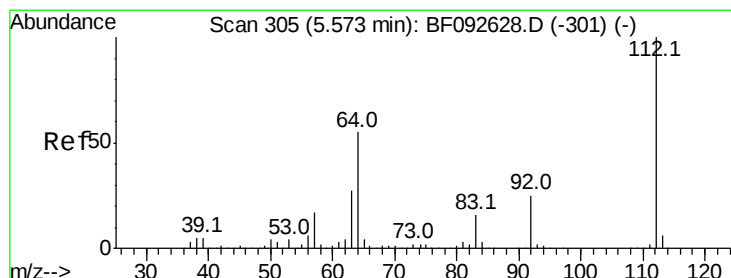
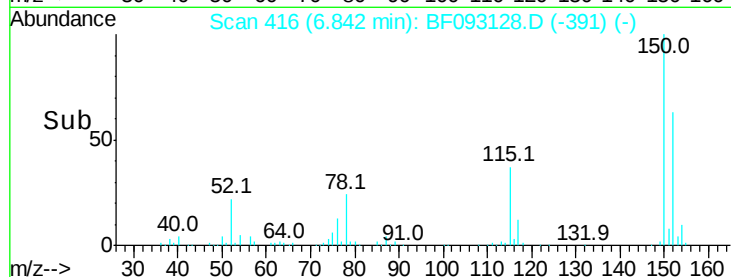
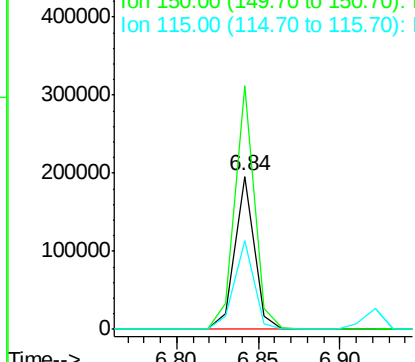


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

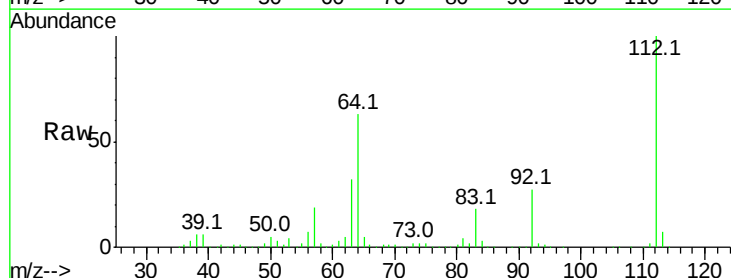
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 125.83 ng
RT: 5.45 min Scan# 294
Delta R.T. -0.00 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.1	46.1	69.1
63	31.6	23.8	35.6

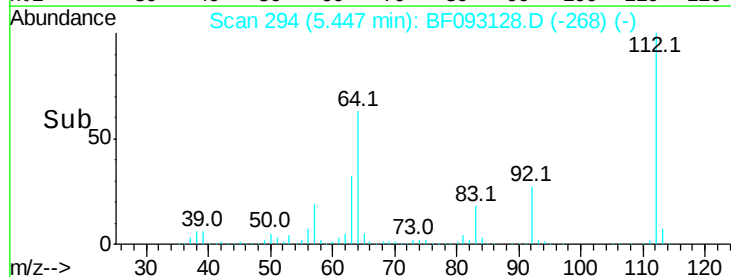
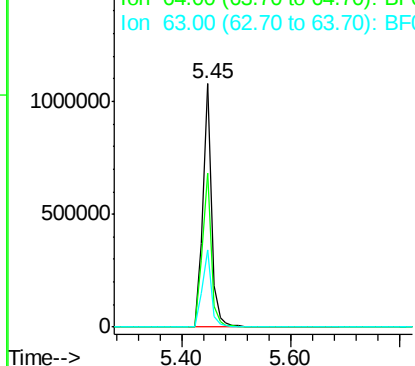


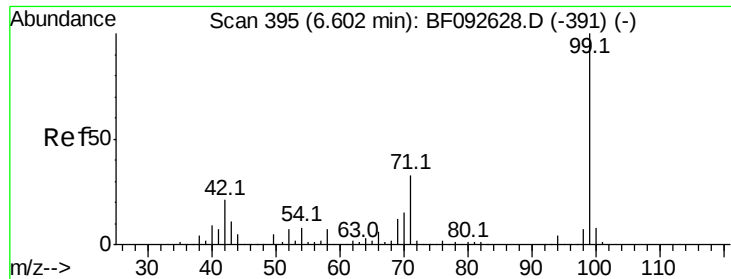
Abundance

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





#7

Phenol-d6

Concen: 110.45 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Instrument :

BNA_F

ClientSampleId :

B1-4

Tot Ion: 99 Resp: 1336778

Ion Ratio Lower Upper

99 100

42 20.6 15.6 23.4

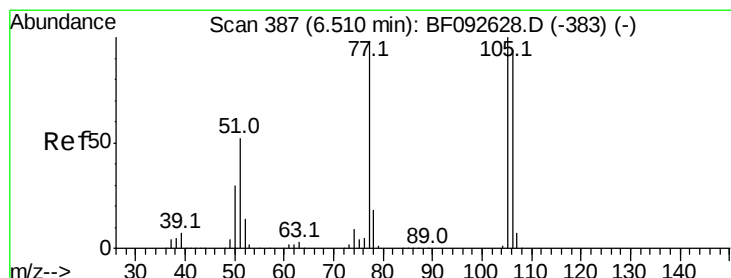
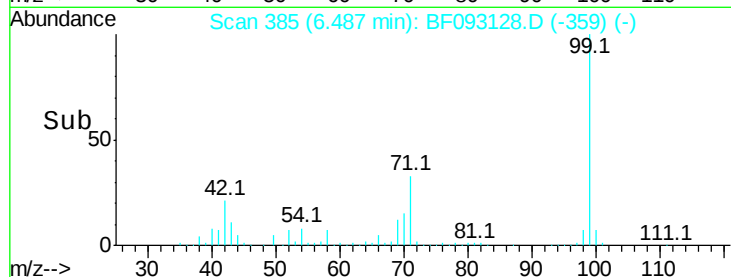
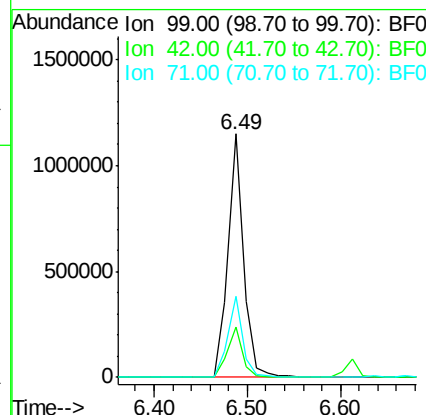
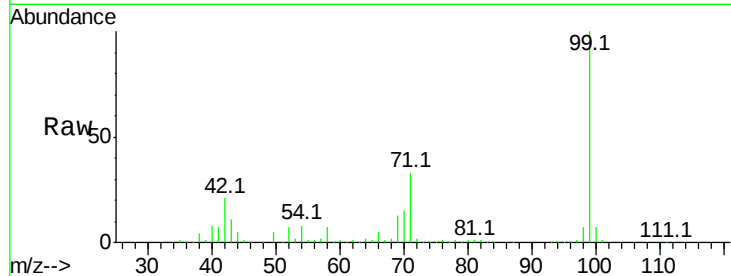
71 33.2 27.5 41.3

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#9

Benzaldehyde

Concen: 3.57 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

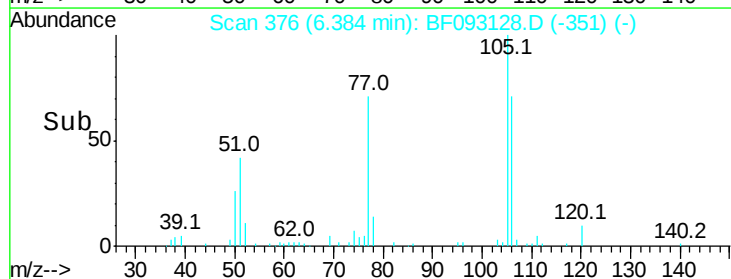
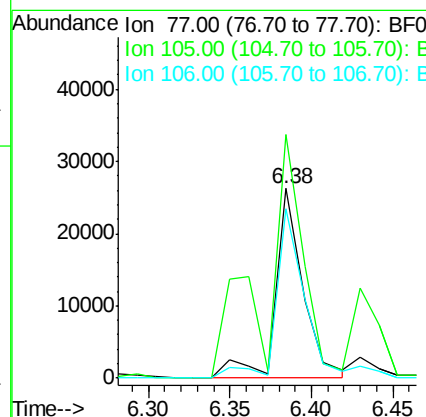
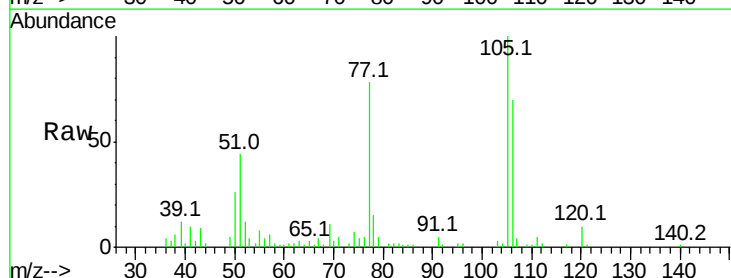
Tgt Ion: 77 Resp: 30942

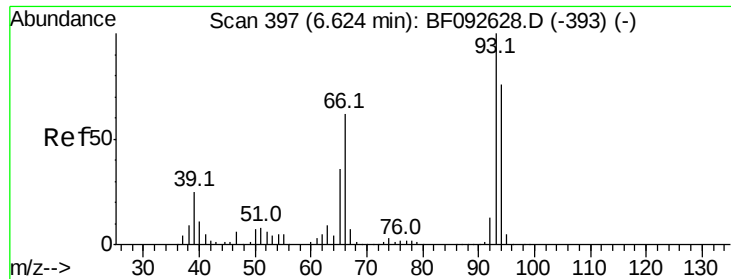
Ion Ratio Lower Upper

77 100

105 128.3 83.9 123.9#

106 89.4 77.6 117.6





#10

Phenol

Concen: 4.88 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Instrument :

BNA_F

ClientSampleId :

B1-4

Tot Ion: 94 Resp: 69078

Ion Ratio Lower Upper

94 100

65 34.4 21.4 61.4

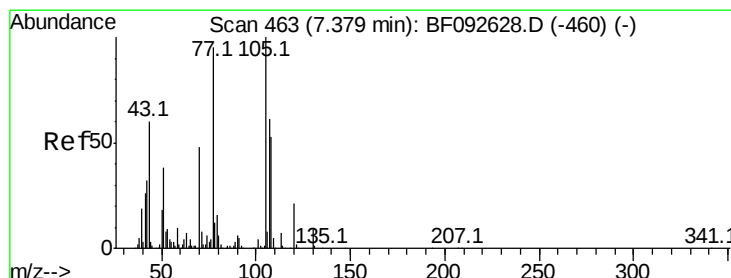
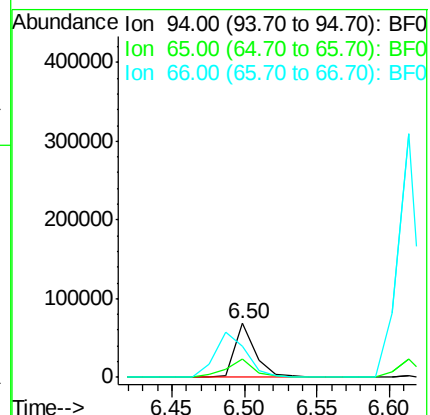
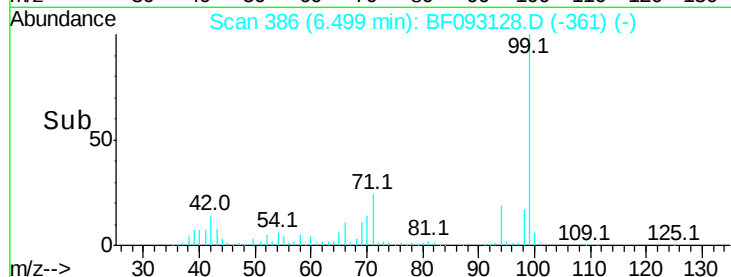
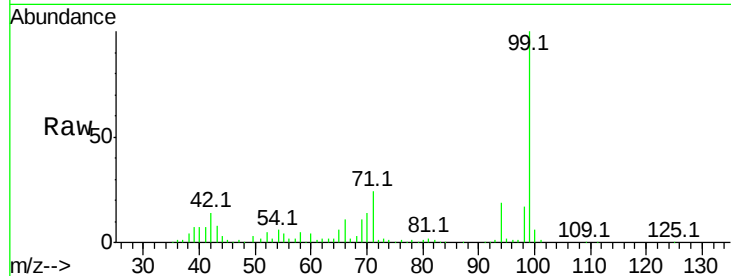
66 57.1 44.0 84.0

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#20

3+4-Methylphenols

Concen: 5.54 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Tgt Ion: 107 Resp: 58968

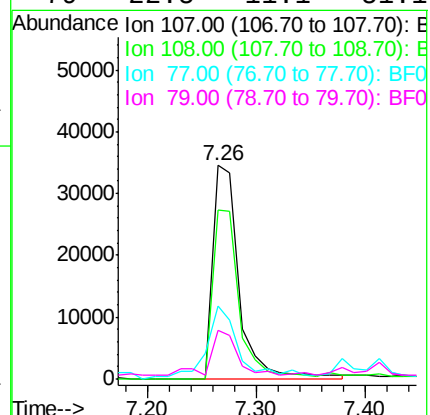
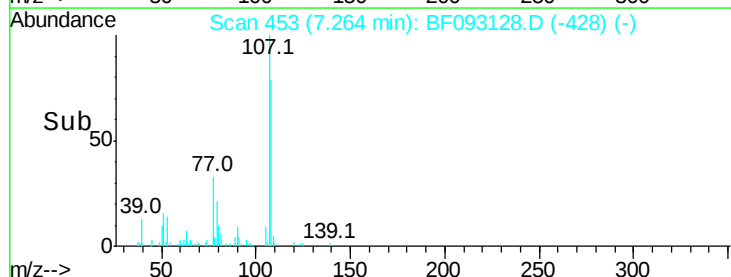
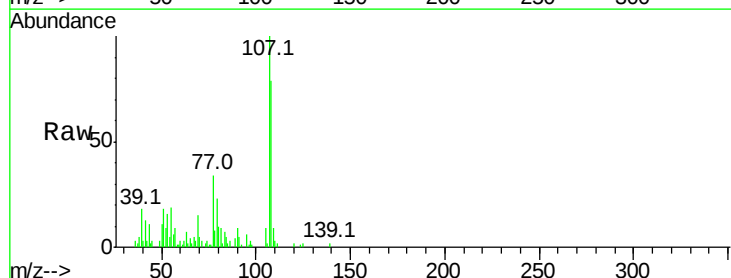
Ion Ratio Lower Upper

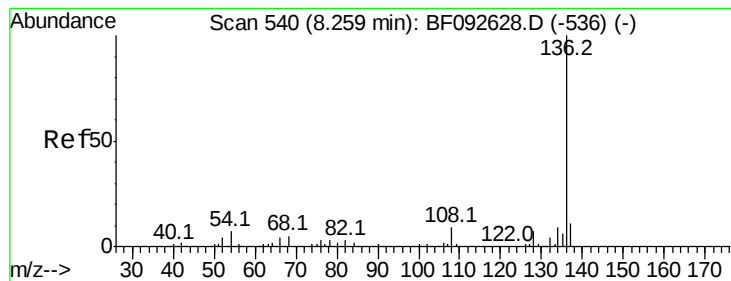
107 100

108 79.4 73.0 113.0

77 34.3 71.3 111.3#

79 22.5 11.1 51.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 529

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Instrument :

BNA_F

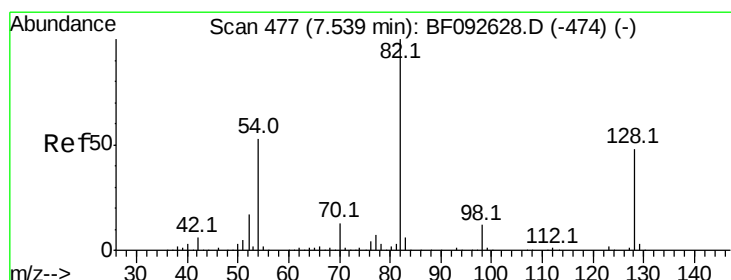
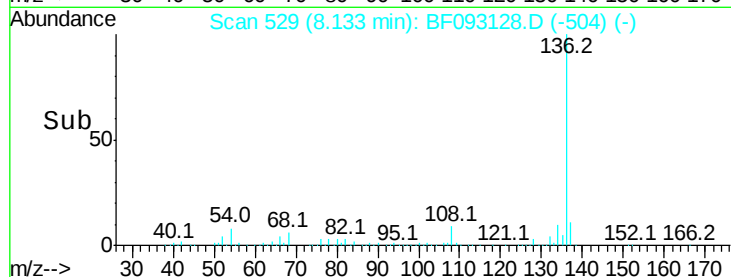
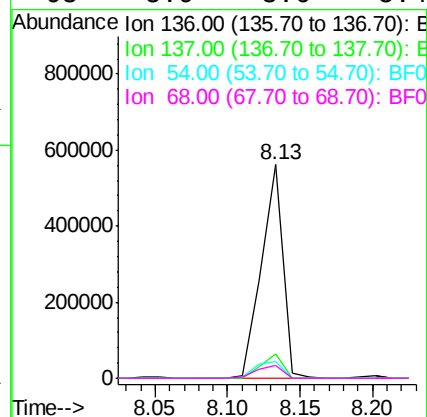
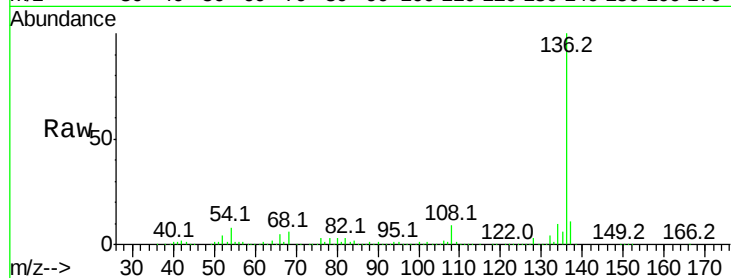
ClientSampleId :

B1-4

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	8.4	12.6
54	7.9	4.5	6.7#
68	5.9	3.6	5.4#

Manual Integrations
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#23

Nitrobenzene-d5

Concen: 83.01 ng

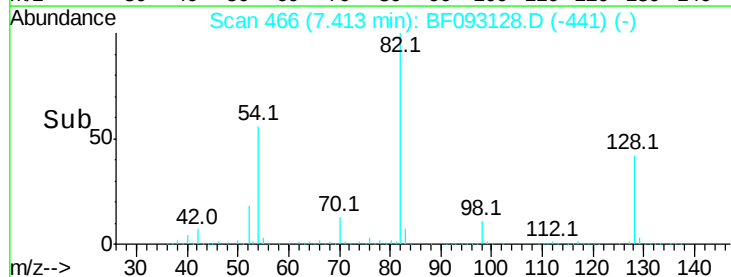
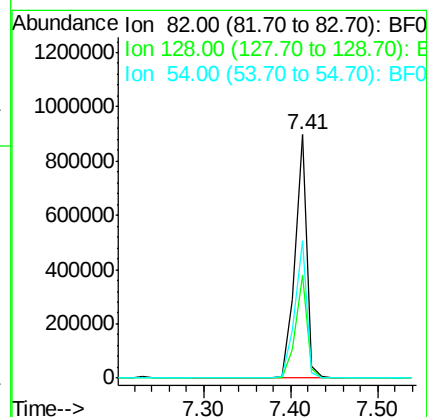
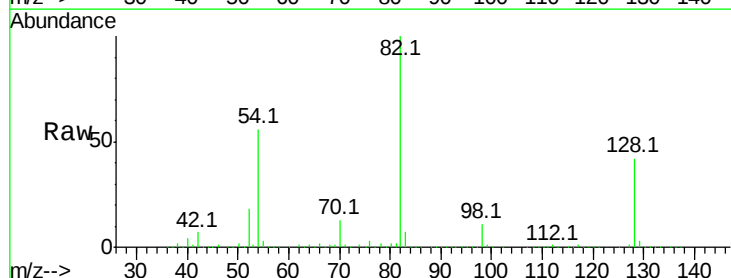
RT: 7.41 min Scan# 466

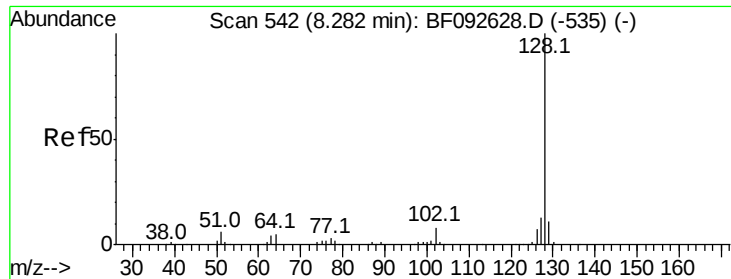
Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	42.2	34.6	52.0
54	56.5	39.5	59.3





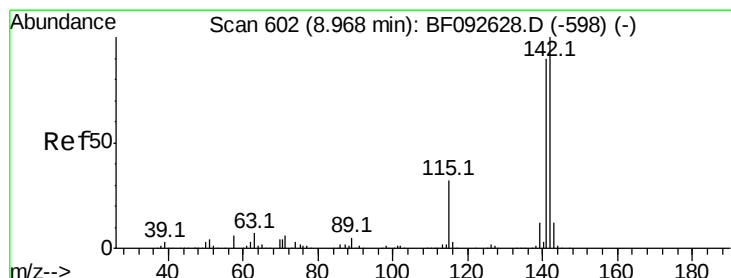
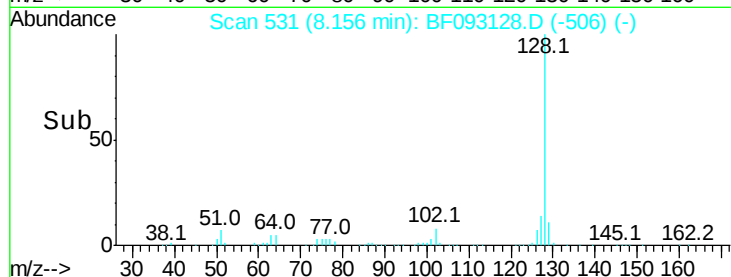
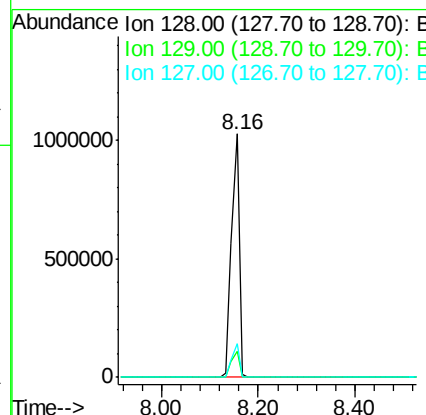
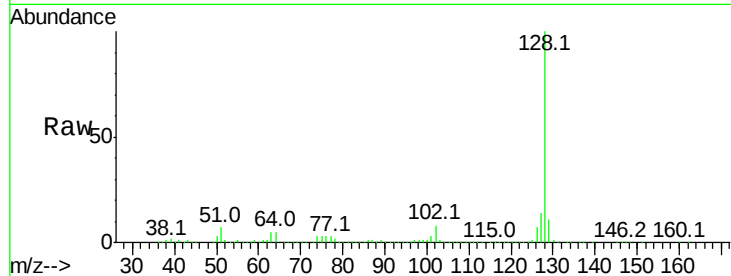
#31
Naphthalene
Concen: 38.51 ng
RT: 8.16 min Scan# 531
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion:128 Resp: 1122755
Ion Ratio Lower Upper
128 100
129 10.6 9.5 14.3
127 13.7 10.8 16.2

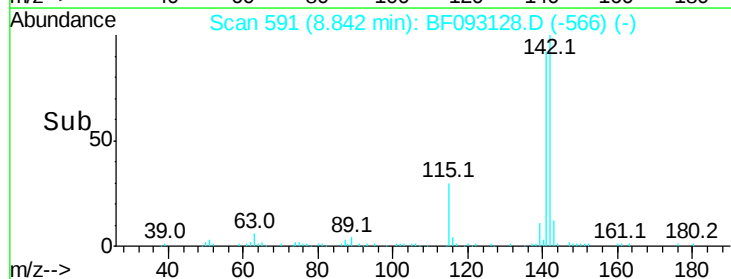
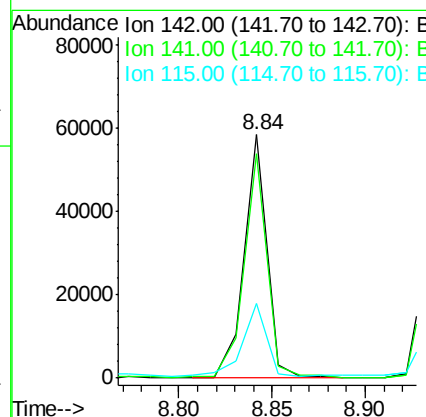
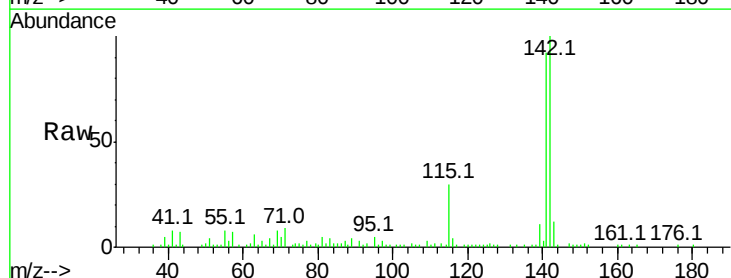
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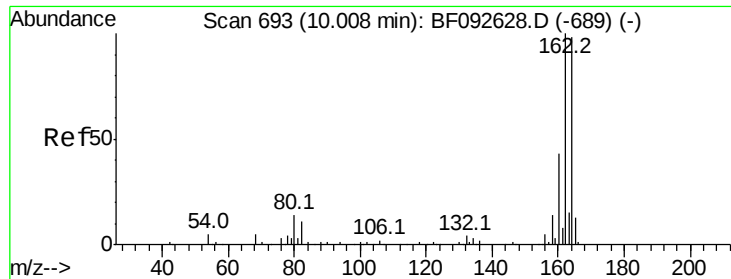
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#37
2-Methylnaphthalene
Concen: 2.67 ng
RT: 8.84 min Scan# 591
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion:142 Resp: 50028
Ion Ratio Lower Upper
142 100
141 92.1 71.0 106.6
115 30.4 28.3 42.5





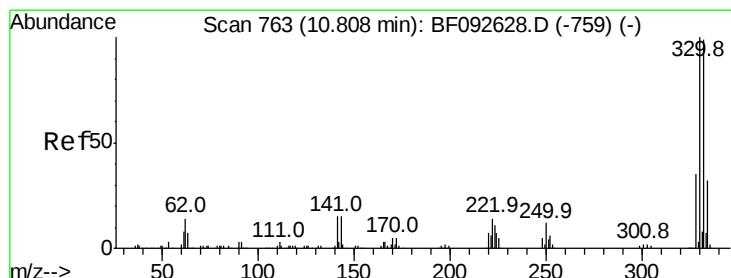
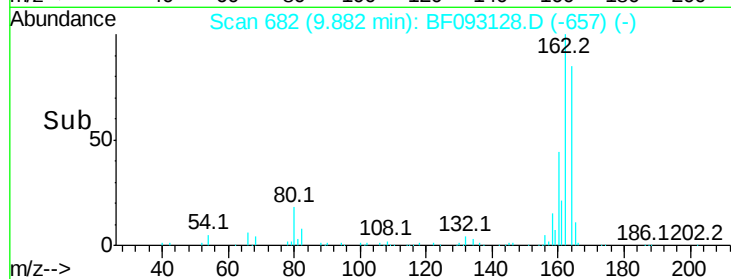
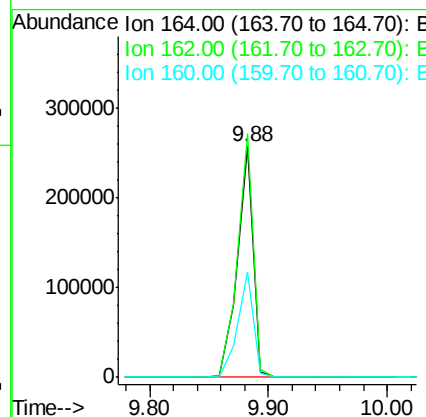
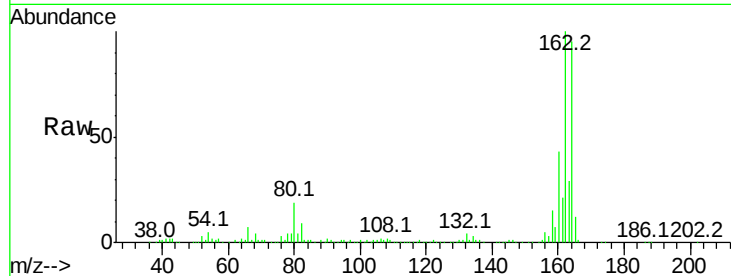
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.88 min Scan# 682
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.5	80.2	120.2	
160	45.6	36.9	55.3	

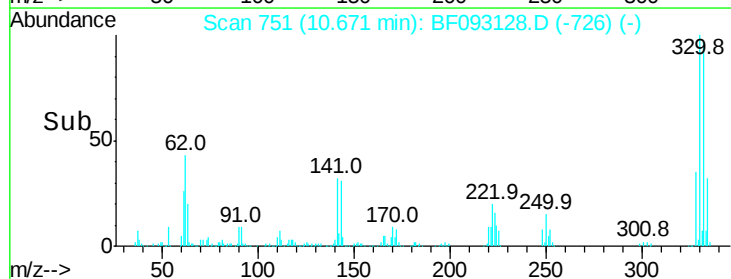
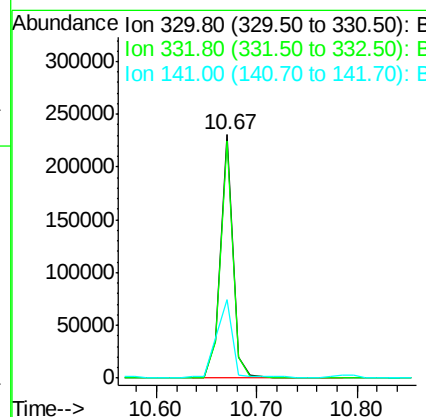
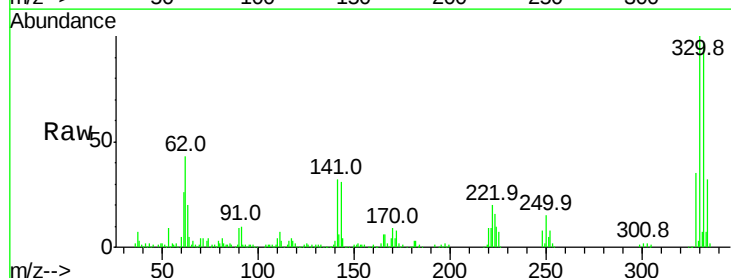
Manual Integrations
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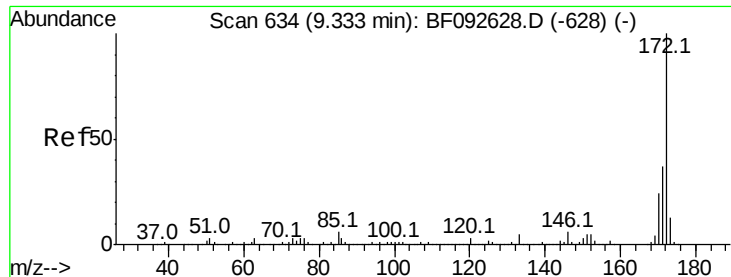
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#41
 2,4,6-Tribromophenol
 Concen: 115.89 ng
 RT: 10.67 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.5	77.4	116.2	
141	40.4	34.1	51.1	





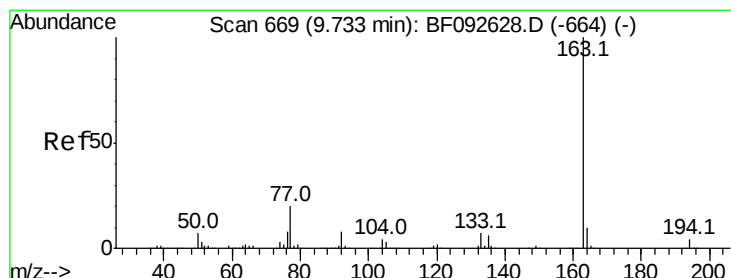
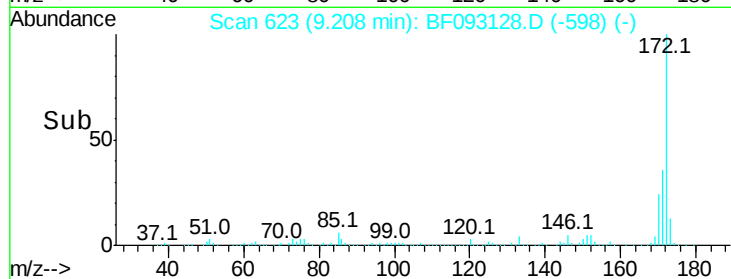
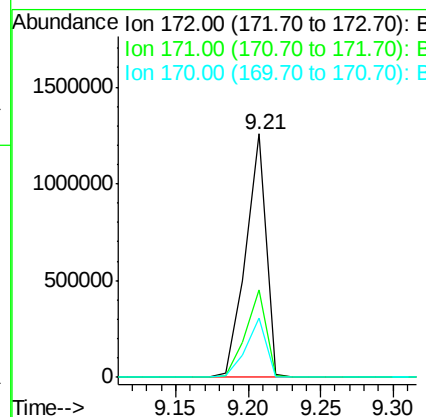
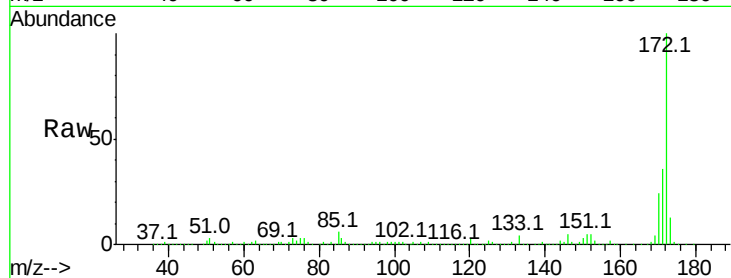
#44
2-Fluorobiphenyl
Concen: 93.91 ng
RT: 9.21 min Scan# 623
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampleId :
B1-4

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.4	44.0
170	24.1	20.2	30.4

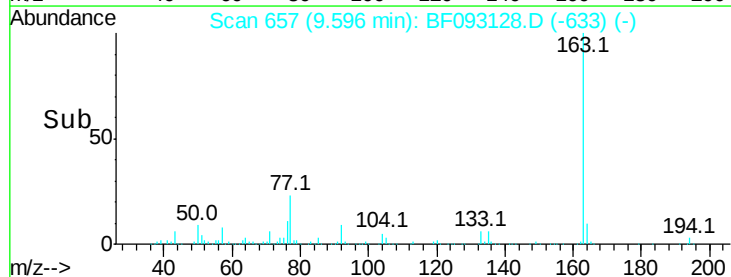
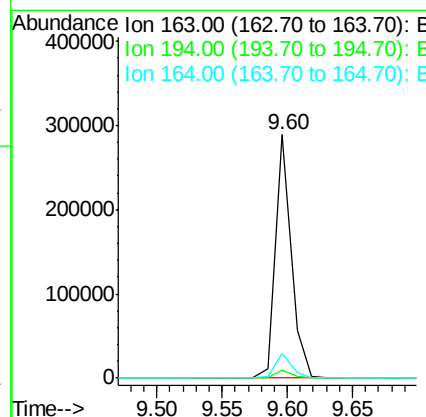
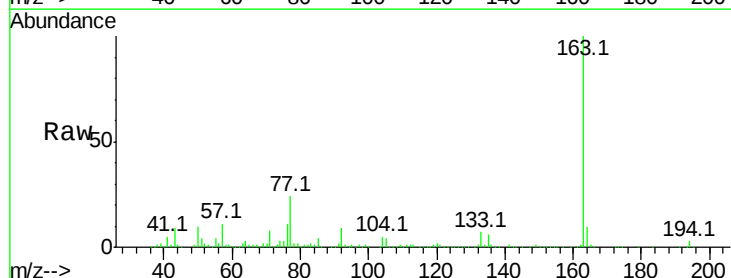
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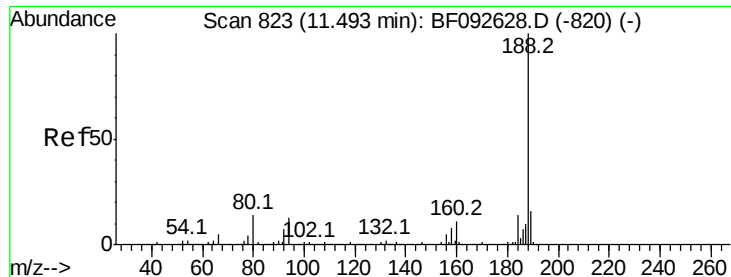
mohammad
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#49
Dimethylphthalate
Concen: 15.33 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.0	4.4
164	10.4	8.0	12.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Instrument :

BNA_F

ClientSampleId :

B1-4

Tot Ion:188 Resp: 330307
Ion Ratio Lower Upper

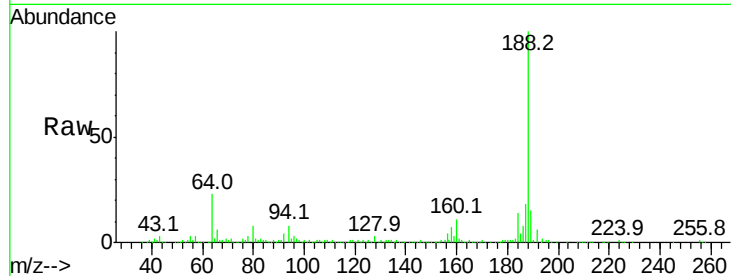
188 100

94 7.6 10.0 15.0#

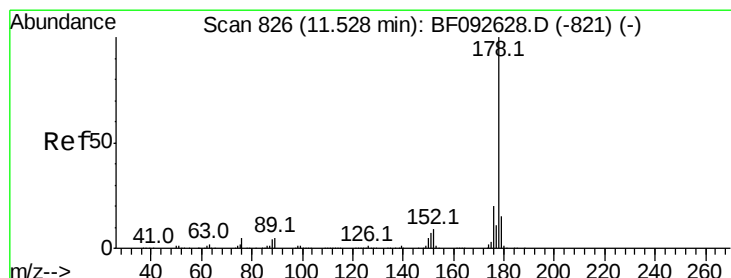
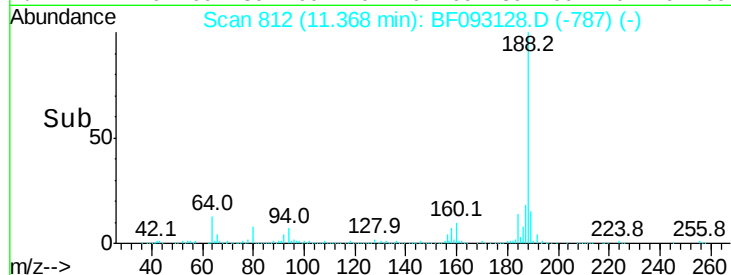
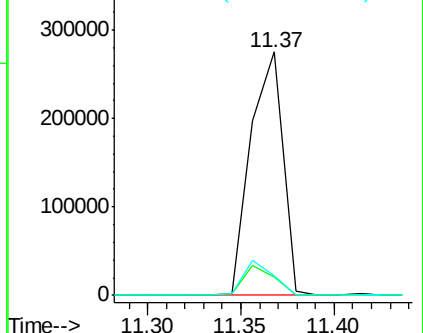
80 7.9 11.2 16.8#

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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 16.95 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF093128.D

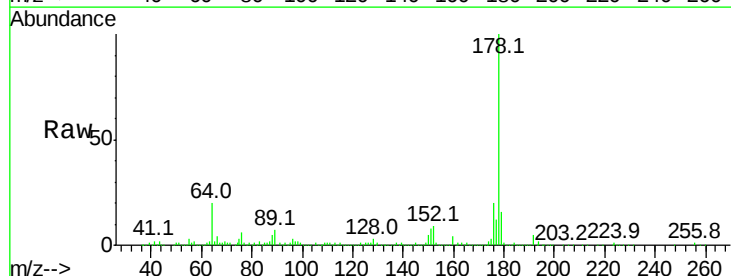
Acq: 24 Feb 2017 2:20

Tgt Ion:178 Resp: 320755
Ion Ratio Lower Upper

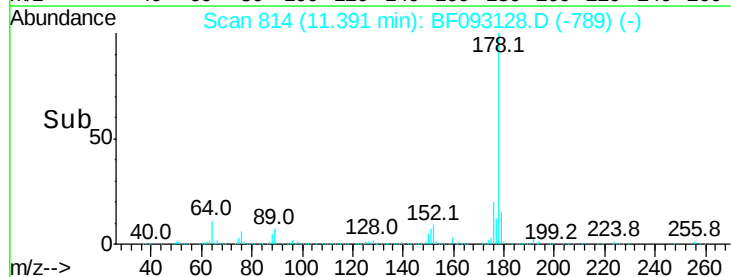
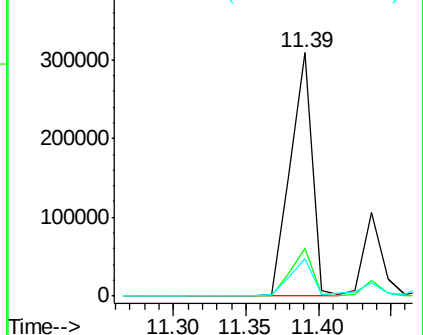
178 100

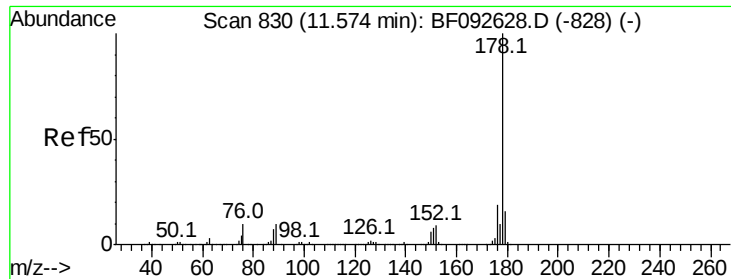
176 19.7 16.6 25.0

179 15.5 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





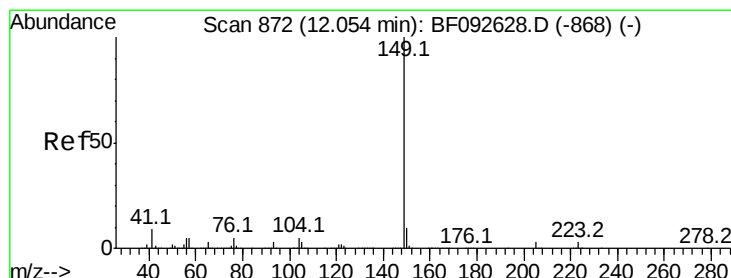
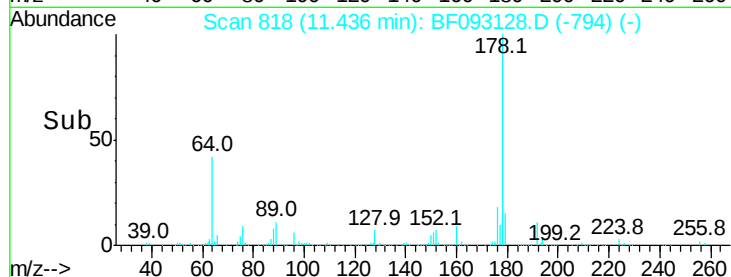
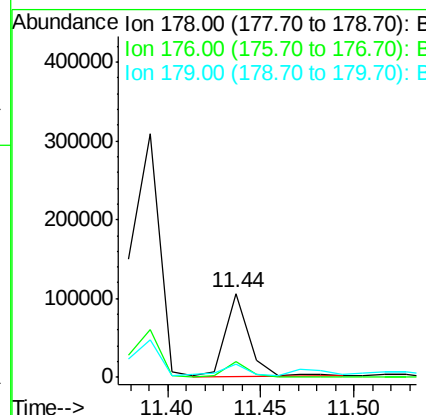
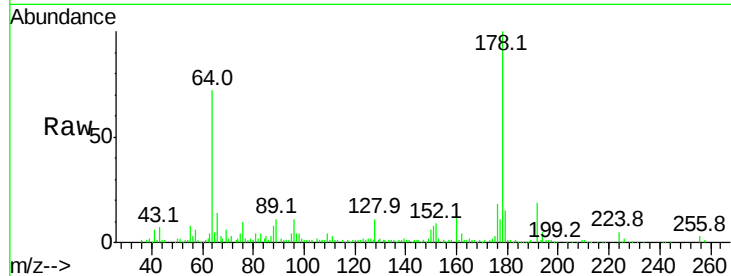
#71
 Anthracene
 Concen: 4.92 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.02 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.9	23.9
179	15.3	13.2	19.8

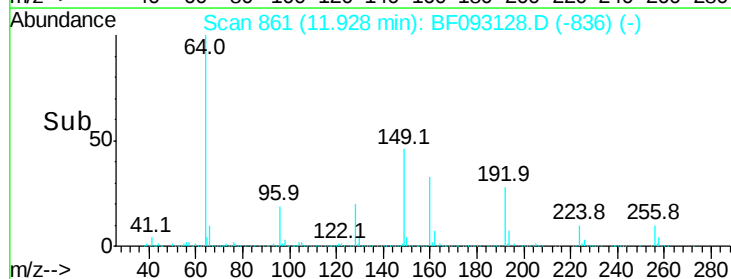
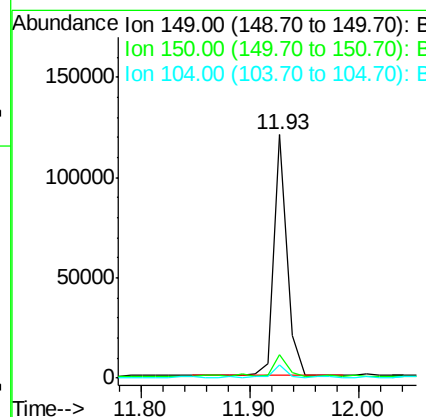
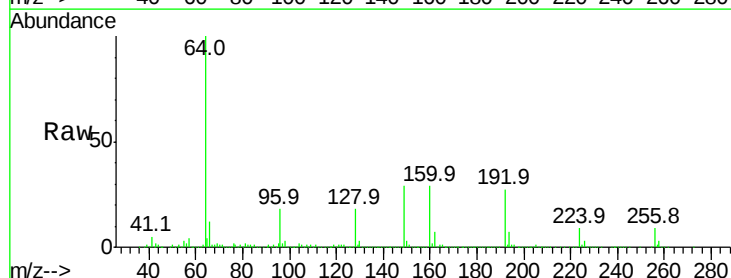
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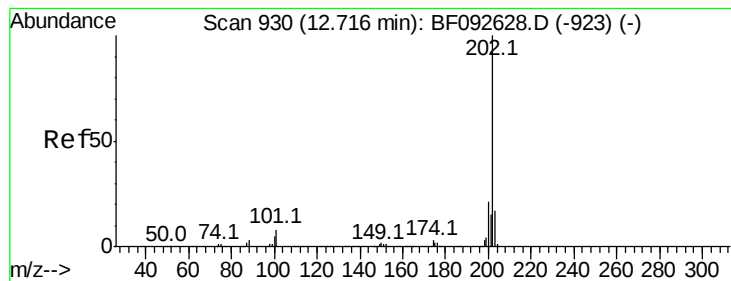
mohammad
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#73
 Di-n-butylphthalate
 Concen: 5.23 ng
 RT: 11.93 min Scan# 861
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.6	8.1	12.1
104	5.4	4.6	7.0





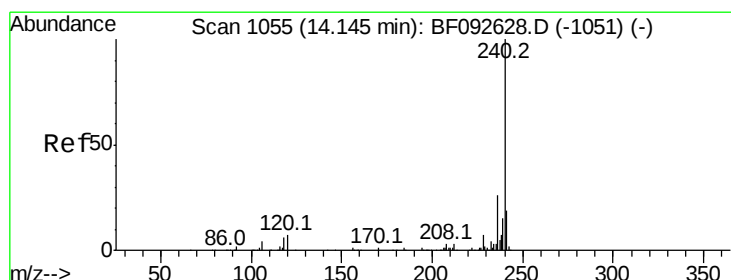
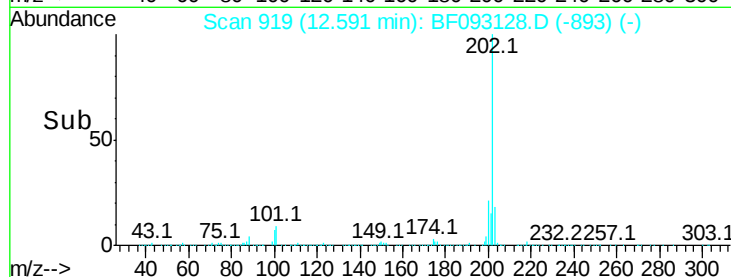
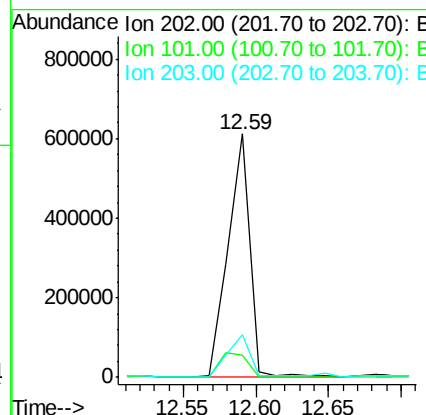
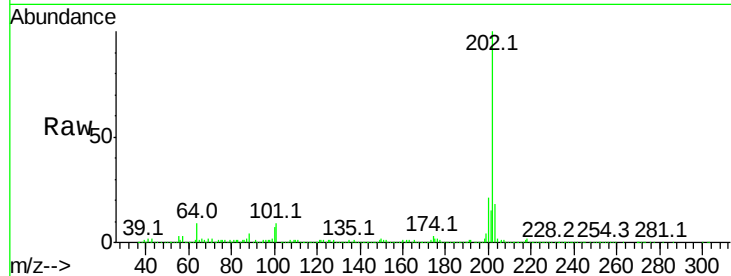
#74
 Fluoranthene
 Concen: 32.34 ng
 RT: 12.59 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.3	0.0	34.6
203	17.7	0.0	38.7

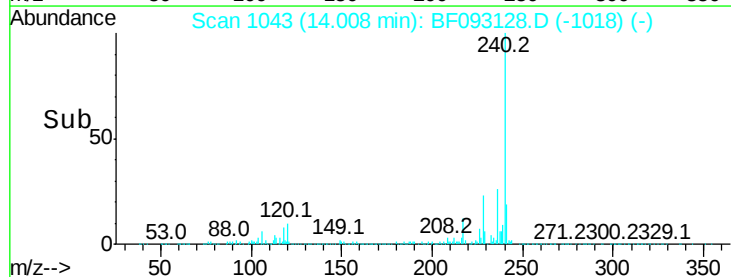
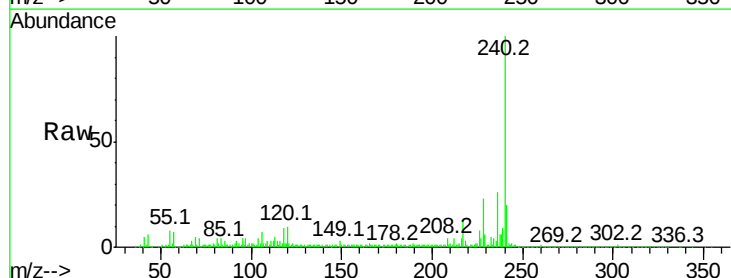
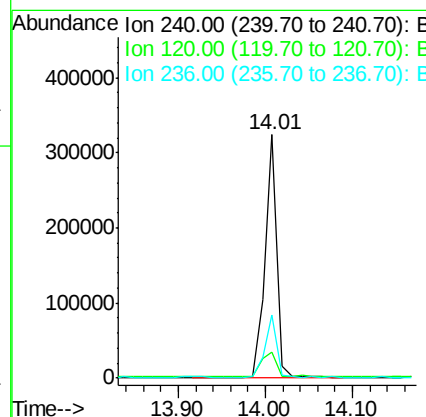
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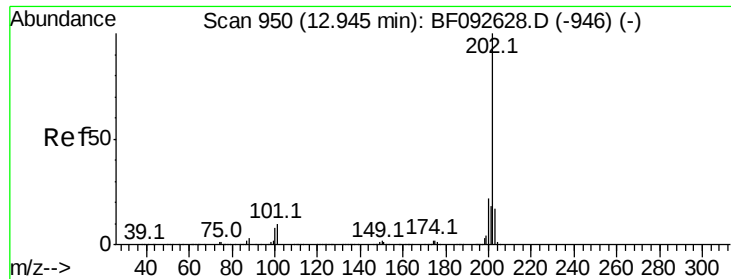
mohammad
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#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.01 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.5	12.9	19.3#
236	25.9	20.9	31.3





#77

Pvrene

Concen: 26.53 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Instrument :

BNA_F

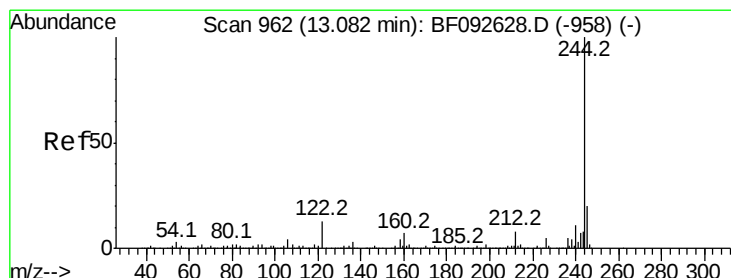
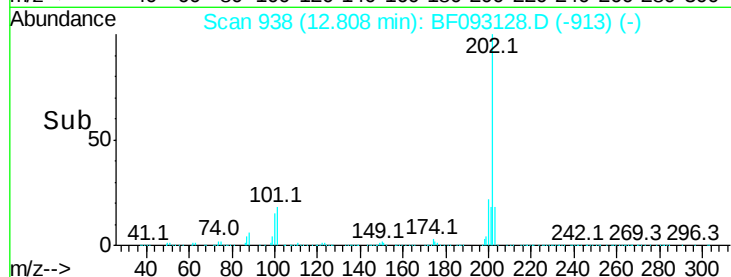
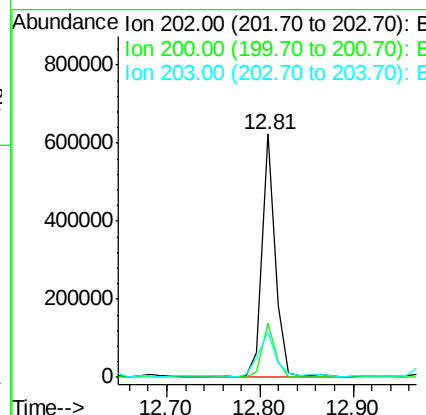
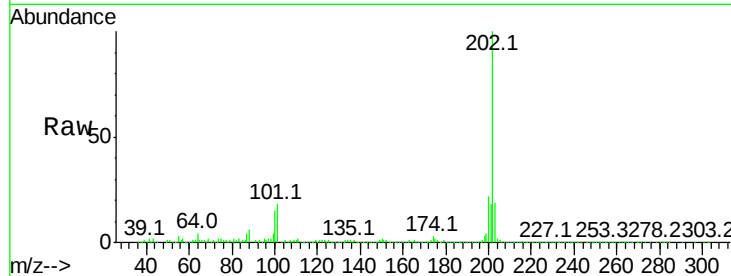
ClientSampleId :

B1-4

Tot Ion:202	Resp:	614229
Ion Ratio	Lower	Upper
202 100		
200 22.4	17.7	26.5
203 18.5	14.7	22.1

Manual Integrations
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#78

Terphenyl-d14

Concen: 49.44 ng

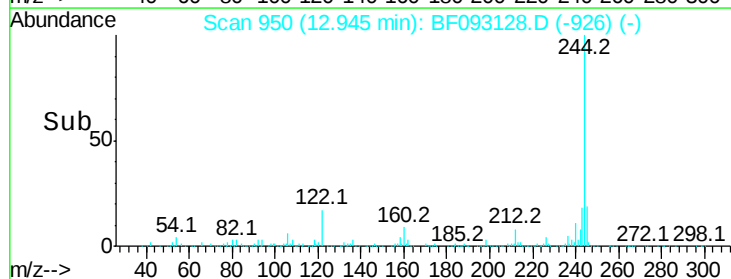
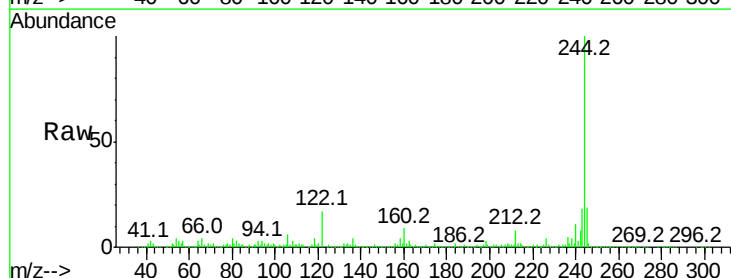
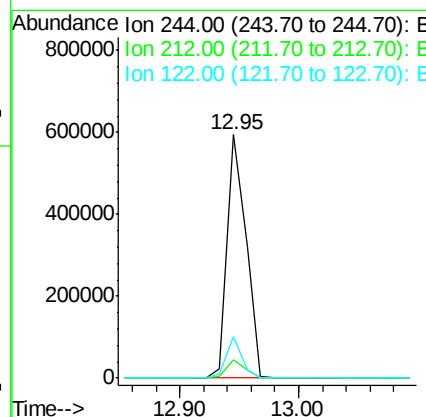
RT: 12.95 min Scan# 950

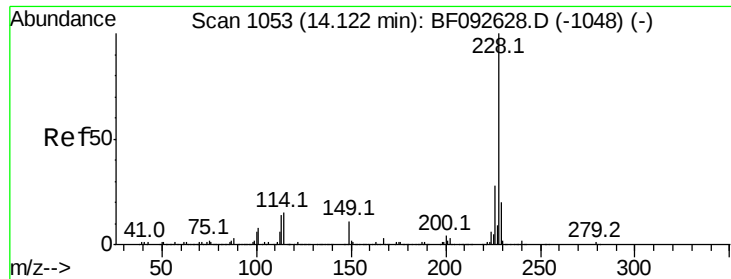
Delta R.T. -0.02 min

Lab File: BF093128.D

Acq: 24 Feb 2017 2:20

Tgt Ion:244	Resp:	650857
Ion Ratio	Lower	Upper
244 100		
212 7.6	6.2	9.2
122 17.2	11.4	17.2#





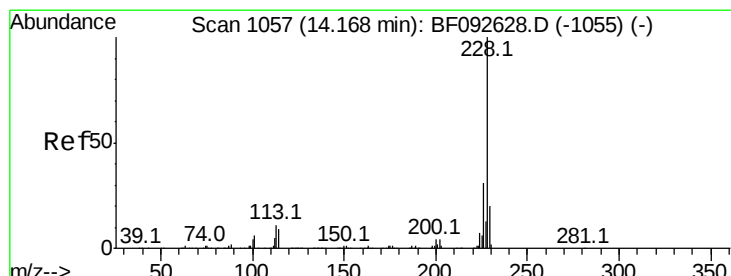
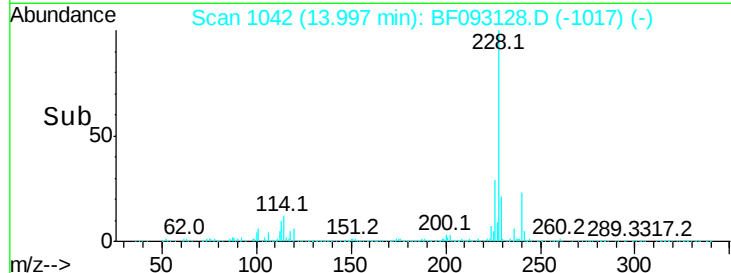
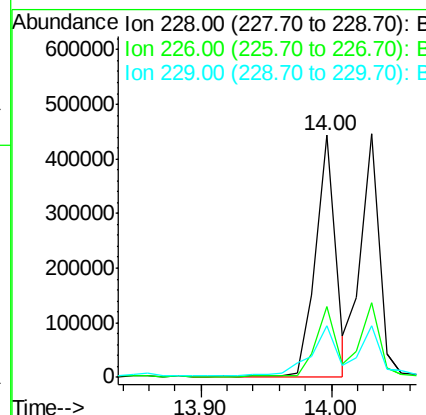
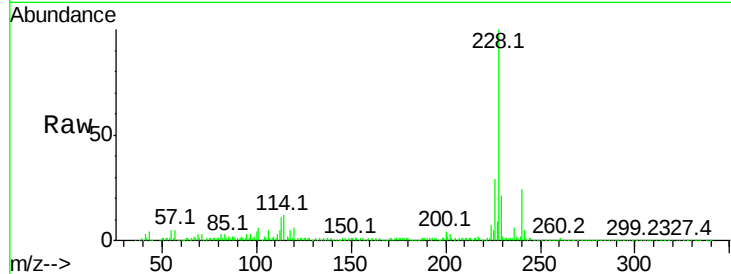
#80
Benzo(a)anthracene
Concen: 24.72 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.4	33.6
229	21.3	16.2	24.4

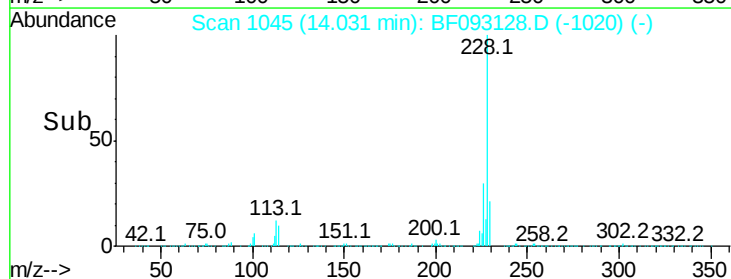
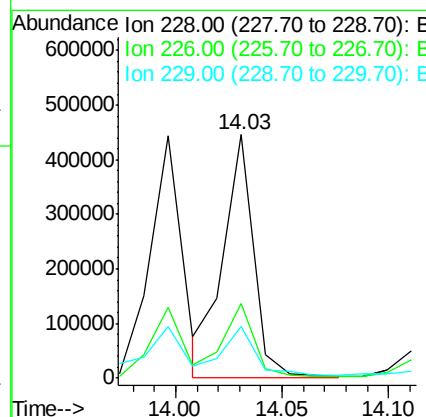
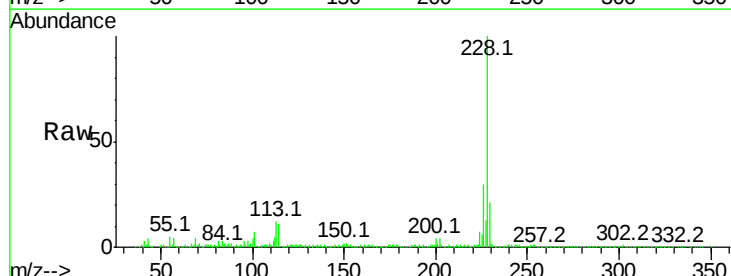
Manual Integrations
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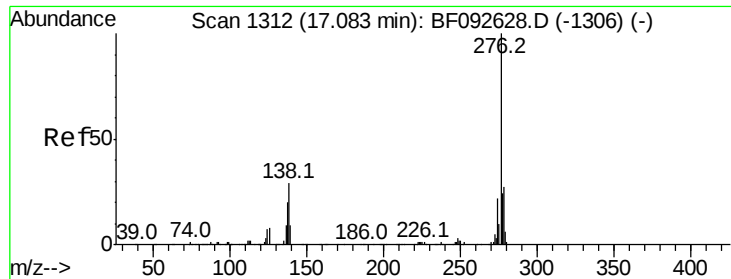
mohammad
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#82
Chrysene
Concen: 25.22 ng m
RT: 14.03 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.4	38.0
229	21.5	16.2	24.2





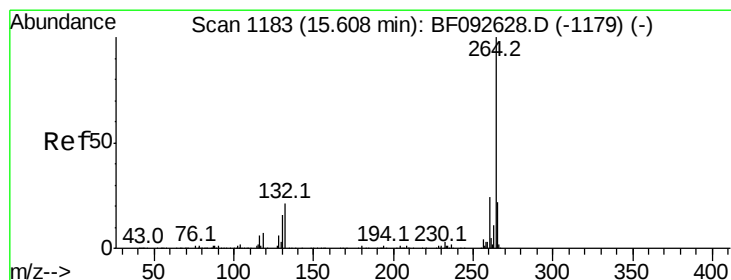
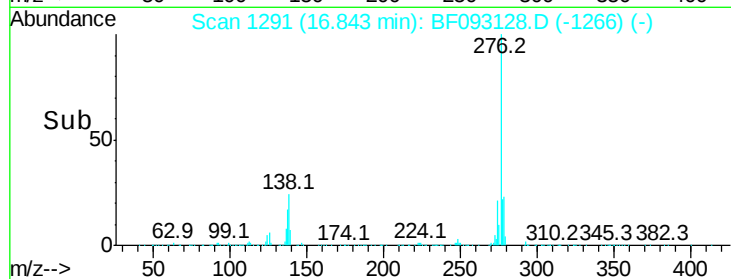
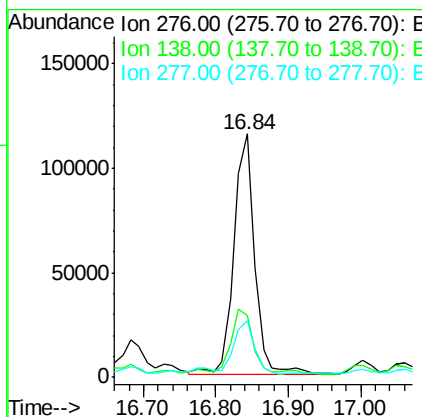
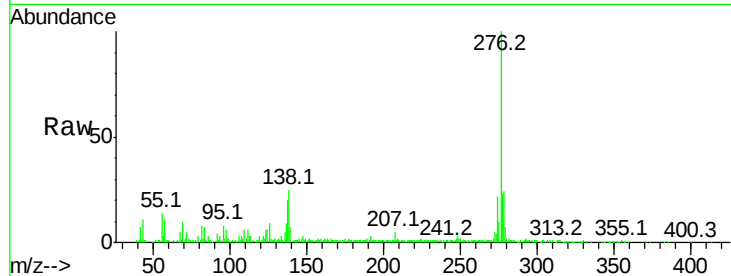
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 16.67 ng
 RT: 16.84 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Resp	Lower	Upper
276	100	228771		
138	28.4		21.8	32.6
277	21.9		20.2	30.4

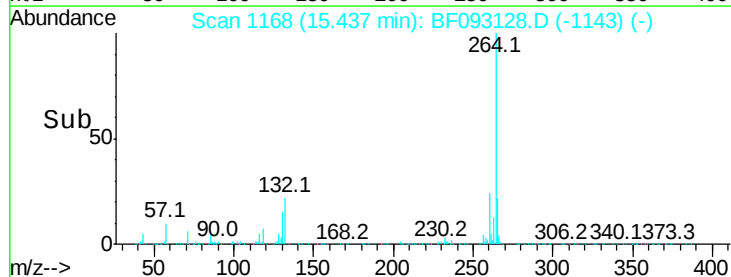
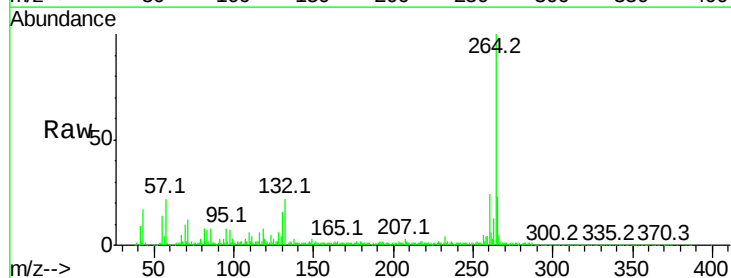
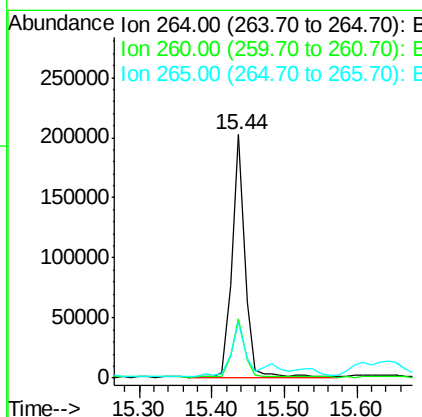
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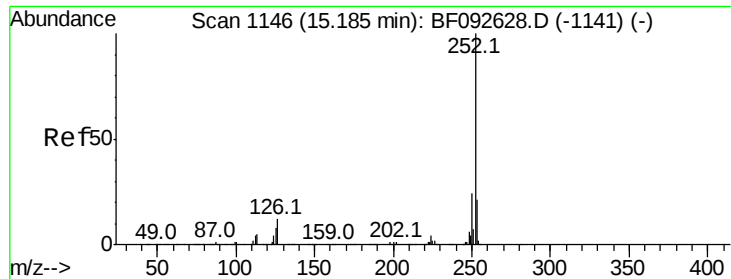
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1168
 Delta R.T. -0.01 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	249501		
260	24.3		19.2	28.8
265	22.5		17.4	26.0





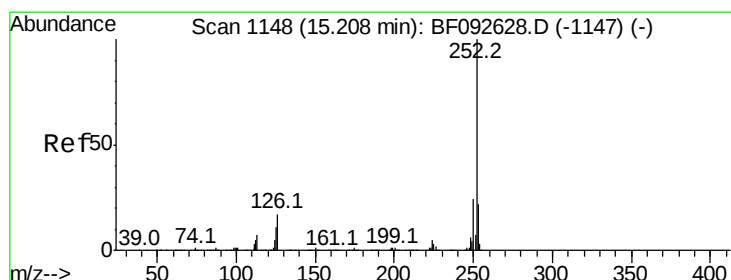
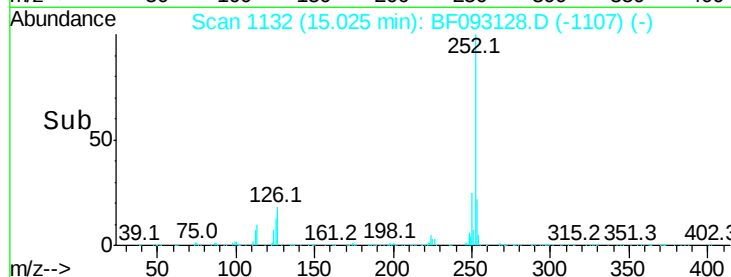
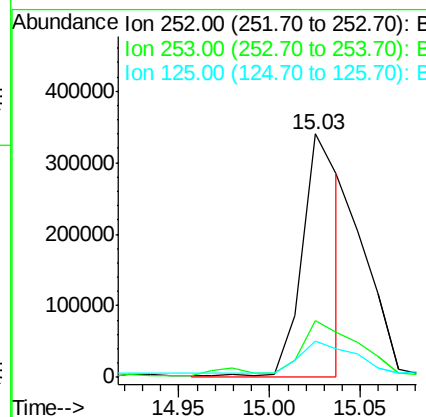
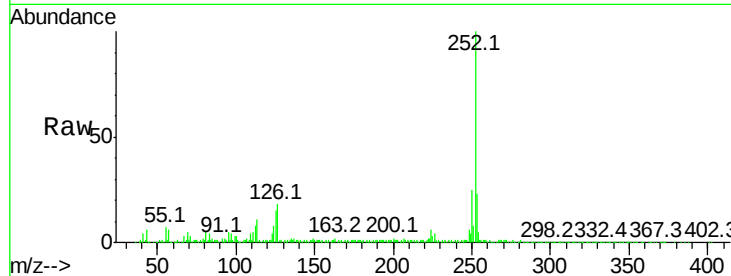
#87
Benzo(b)fluoranthene
Concen: 30.26 ng m
RT: 15.03 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	15.0	9.8	14.6

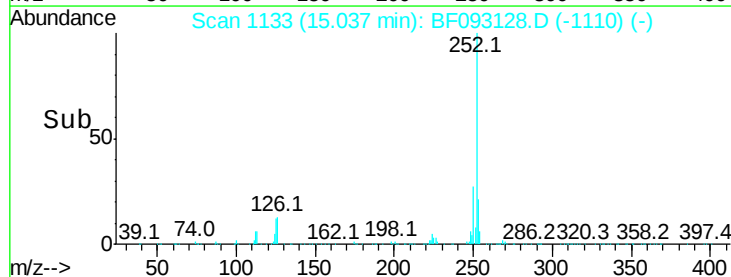
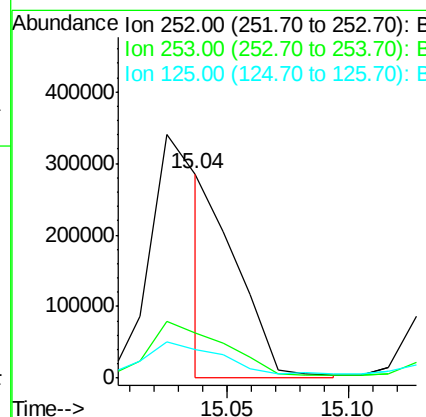
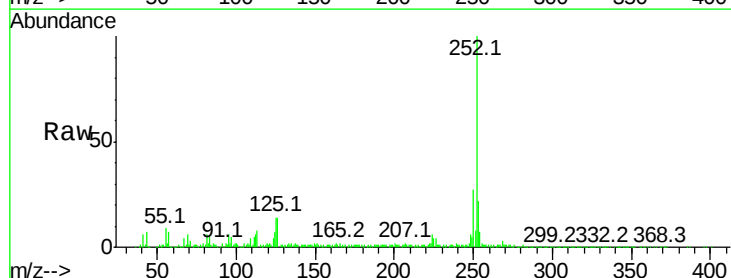
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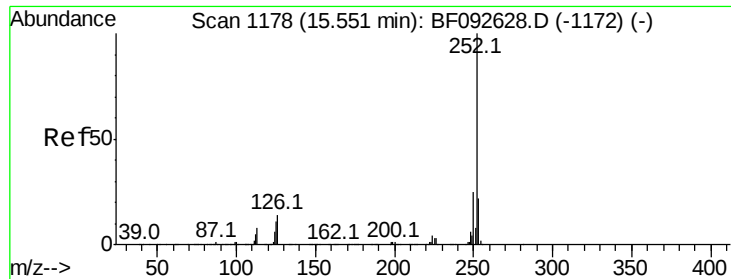
mohammad
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#88
Benzo(k)fluoranthene
Concen: 16.52 ng m
RT: 15.04 min Scan# 1133
Delta R.T. -0.03 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.5	27.7
125	14.2	8.9	13.3





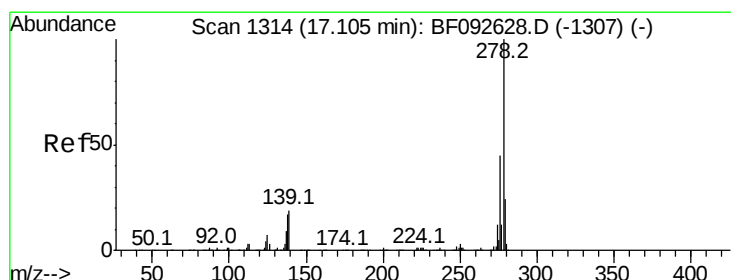
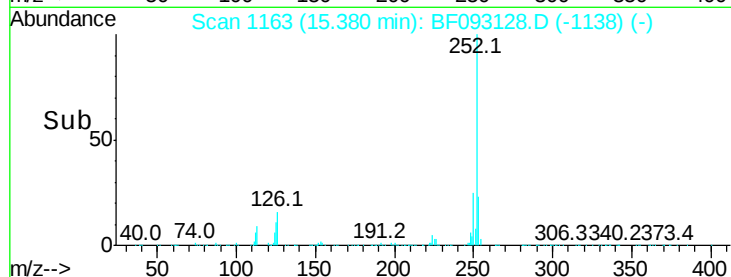
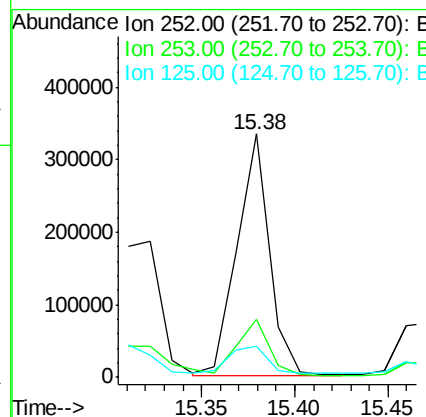
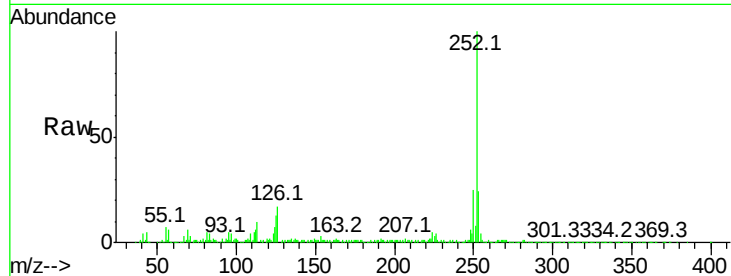
#89
Benzo(a)pyrene
Concen: 28.37 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Instrument :
BNA_F
ClientSampled :
B1-4

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.9	18.2	27.2
125	12.8	10.0	15.0

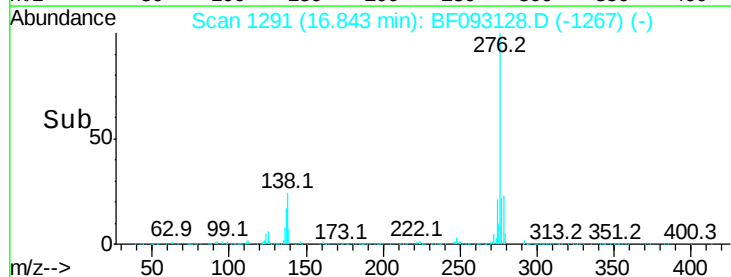
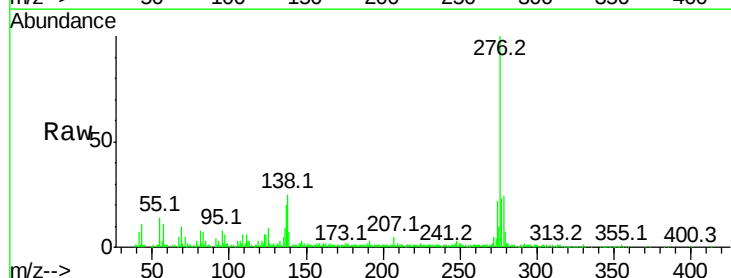
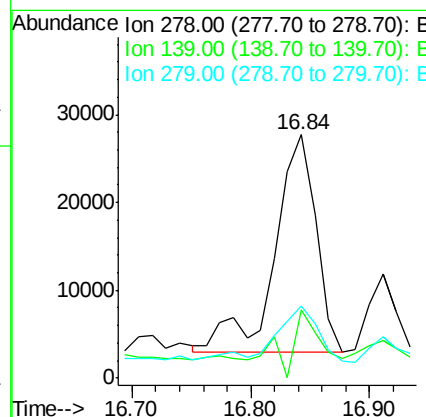
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APPROVED

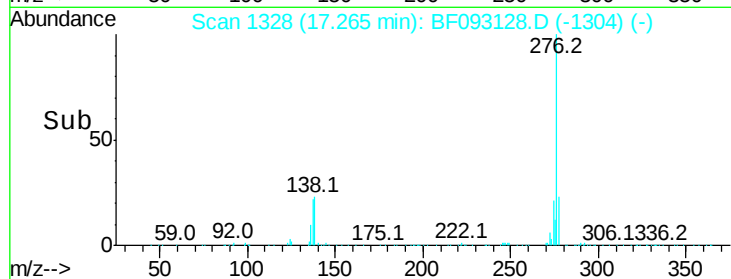
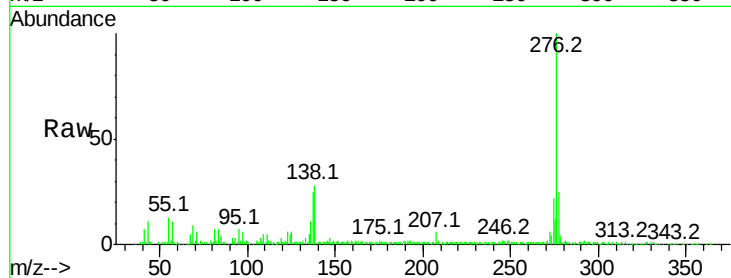
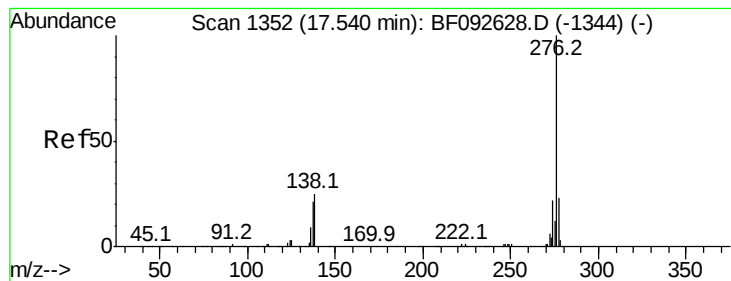
mohammad
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#90
Dibenzo(a,h)anthracene
Concen: 5.28 ng
RT: 16.84 min Scan# 1291
Delta R.T. -0.02 min
Lab File: BF093128.D
Acq: 24 Feb 2017 2:20

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	27.8	14.8	22.2#
279	29.9	19.8	29.6#





#91
 Benzo(a,h,i)perylene
 Concen: 18.74 ng
 RT: 17.27 min Scan# 1328
 Delta R.T. -0.02 min
 Lab File: BF093128.D
 Acq: 24 Feb 2017 2:20

Instrument :
 BNA_F
 ClientSampleId :
 B1-4

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	25.0	19.2	28.8
138	27.7	16.0	24.0

Manual Integrations
 APPROVED

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