

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094157.D
 Acq On : 4 Apr 2017 9:25
 Operator : SJ/MA
 Sample : I2510-11
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-WSW

Manual Integrations
 APPROVED

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 4/4/2017 5:35:19 PM

Quant Time: Apr 04 11:37:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	177002	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	659621	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	256200	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	401529	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	297983	20.00	ng	0.00
86) Perylene-d12	16.25	264	219275	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	1092976	104.30	ng	0.00
7) Phenol-d6	5.50	99	1369695	105.65	ng	-0.01
23) Nitrobenzene-d5	6.54	82	712332	61.63	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	192427	95.05	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1309450	77.96	ng	-0.02
78) Terphenyl-d14	13.34	244	866775	65.20	ng	-0.01

Target Compounds						Qvalue
10) Phenol	5.51	94	33280	2.26	ng	93
31) Naphthalene	7.42	128	255240	8.05	ng	99
37) 2-Methylnaphthalene	8.26	142	107868	5.10	ng	97
49) Dimethylphthalate	9.21	163	155038	8.51	ng	99
51) Acenaphthene	9.57	154	330371	21.06	ng	99
54) Dibenzofuran	9.79	168	326884	15.31	ng	98
57) Fluorene	10.21	166	362808	20.49	ng	100
70) Phenanthrene	11.40	178	2925018	130.95	ng	100
71) Anthracene	11.46	178	829328	36.06	ng	99
72) Carbazole	11.66	167	433927	18.40	ng	98
74) Fluoranthene	12.87	202	2771322	121.17	ng	100
77) Pvrene	13.15	202	2294419	106.10	ng	99
80) Benzo(a)anthracene	14.61	228	1080804	62.20	ng	100
82) Chrysene	14.66	228	1003255	62.22	ng	97
85) Indeno(1,2,3-cd)pyrene	17.60	276	328140	23.50	ng	94
87) Benzo(b)fluoranthene	15.85	252	868664m	64.63	ng	
88) Benzo(k)fluoranthene	15.87	252	335431m	25.51	ng	
89) Benzo(a)pyrene	16.20	252	583686	47.16	ng	98
90) Dibenzo(a,h)anthracene	17.62	278	92877	8.86	ng	94
91) Benzo(a,h,i)perylene	18.00	276	287927	27.26	ng	98

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

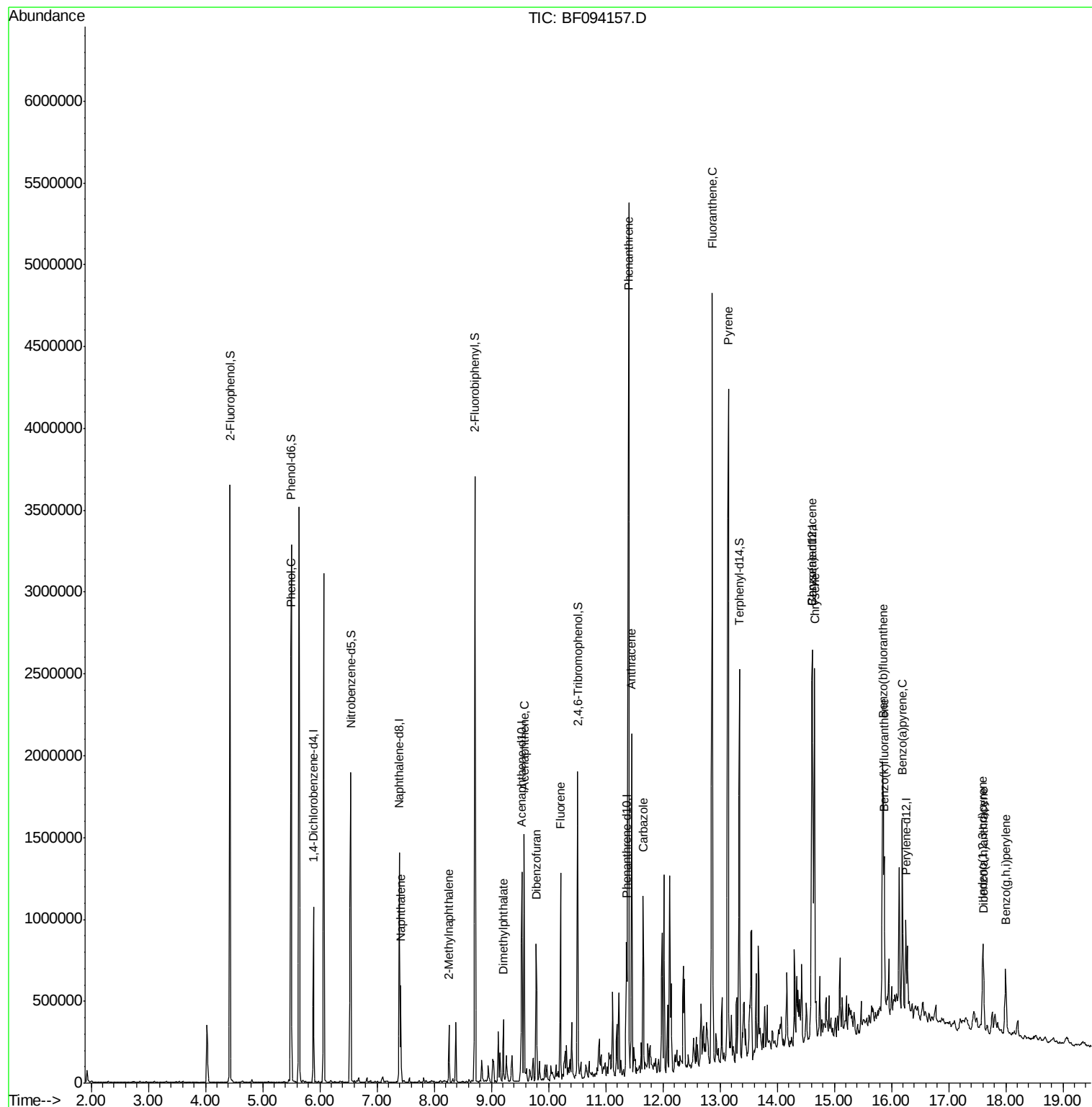
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
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#1

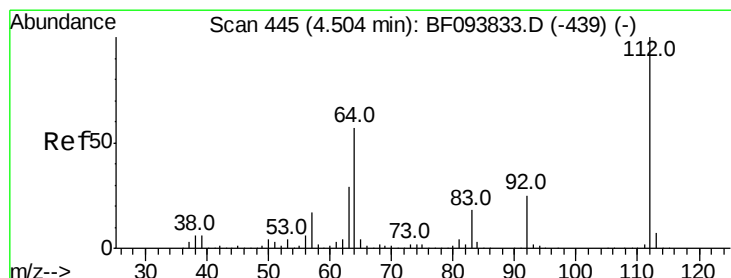
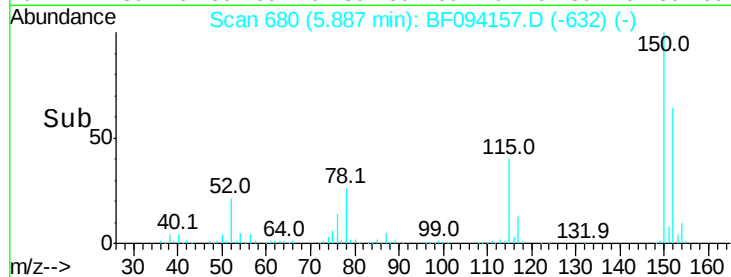
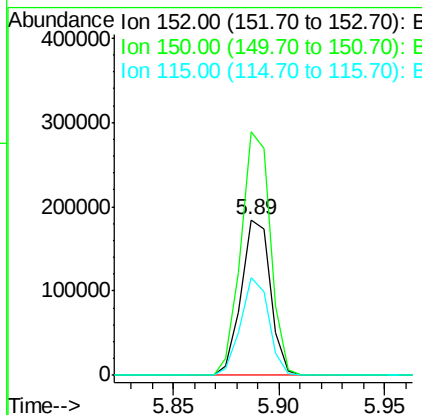
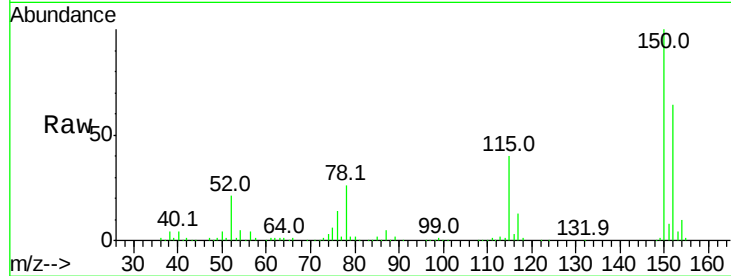
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	126.2	189.2
115	62.8	52.2	78.2

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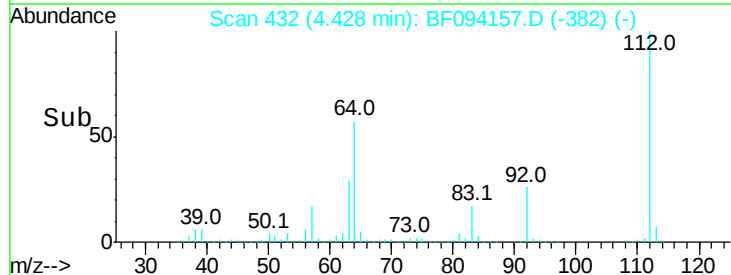
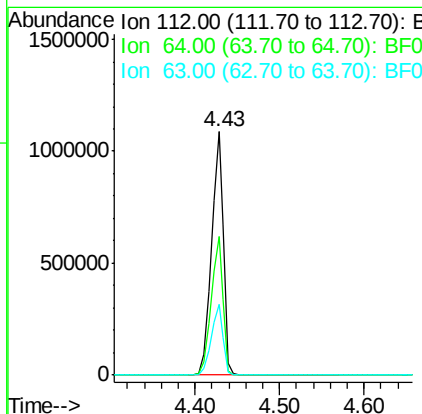
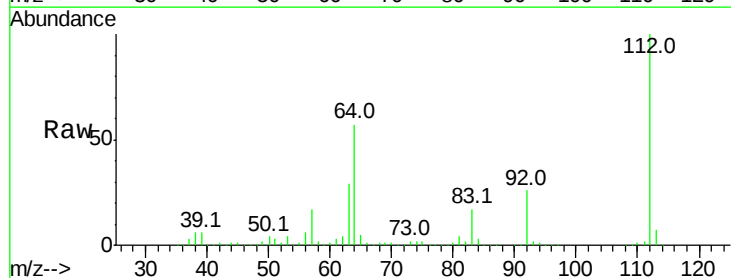
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#5

2-Fluorophenol
Concen: 104.30 ng
RT: 4.43 min Scan# 432
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.8	46.0	69.0
63	29.0	23.4	35.0





#7

Phenol-d6

Concen: 105.65 ng

RT: 5.50 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

ClientSampleId :

E2-U4-WSW

Tot Ion: 99 Resp: 1369695

Ion Ratio Lower Upper

99 100

42 18.6 13.5 20.3

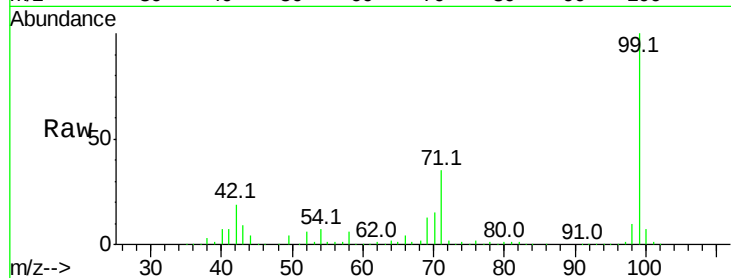
71 35.5 24.5 36.7

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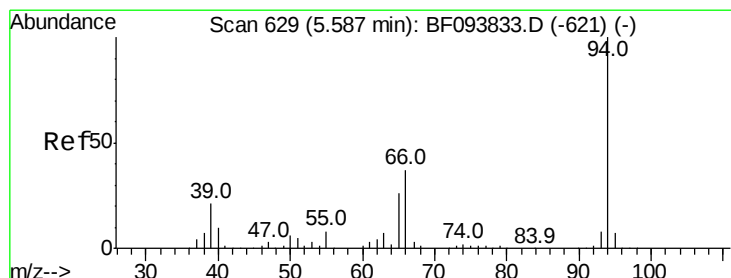
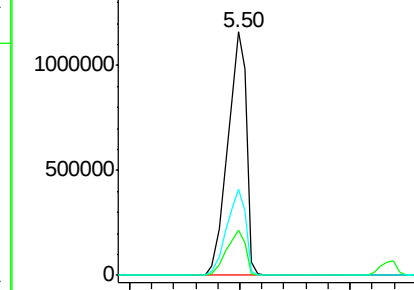
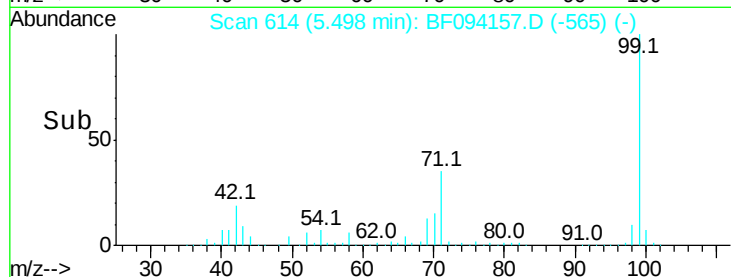
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.26 ng

RT: 5.51 min Scan# 616

Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

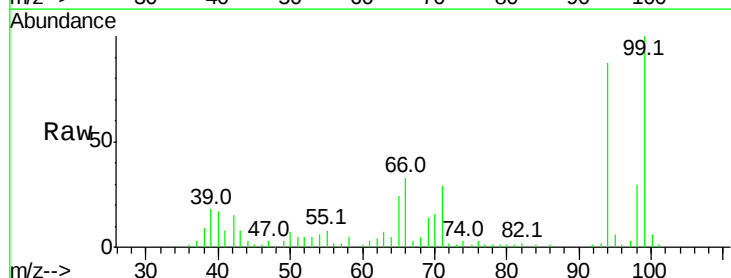
Tgt Ion: 94 Resp: 33280

Ion Ratio Lower Upper

94 100

65 27.8 9.9 49.9

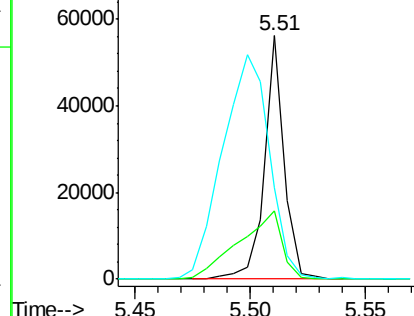
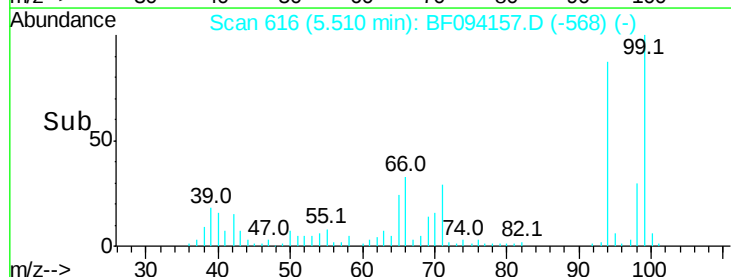
66 37.7 23.1 63.1



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: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

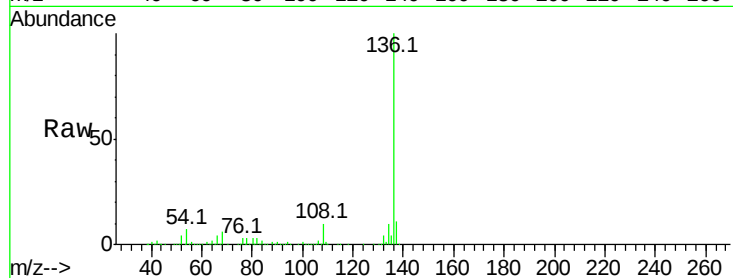
ClientSampleId :

E2-U4-WSW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		659621		
137	10.8	8.5	12.7		
54	7.5	4.9	7.3#		
68	6.0	4.1	6.1		

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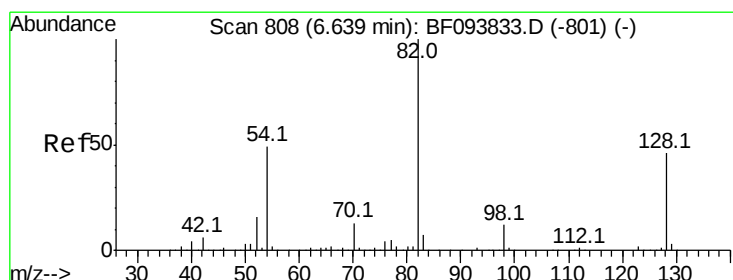
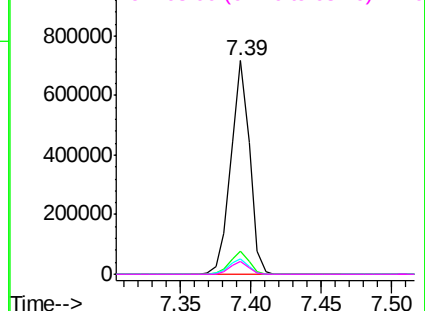
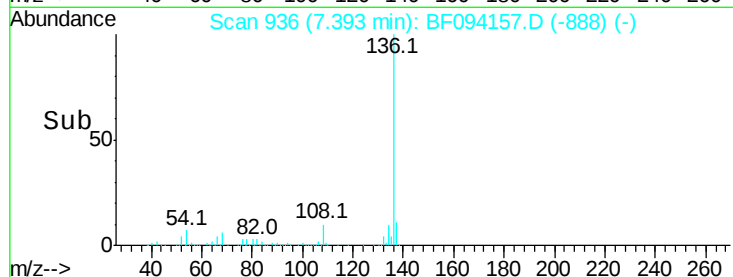


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.63 ng

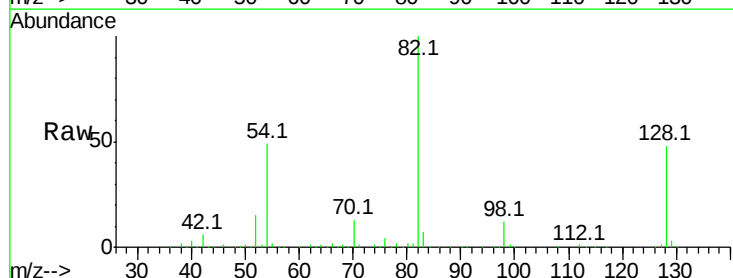
RT: 6.54 min Scan# 791

Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

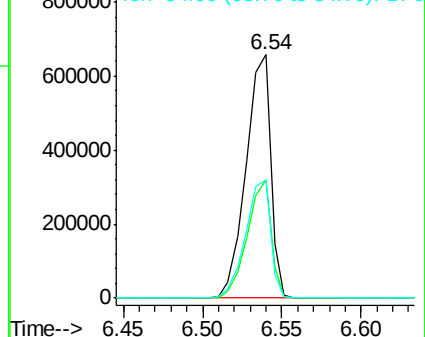
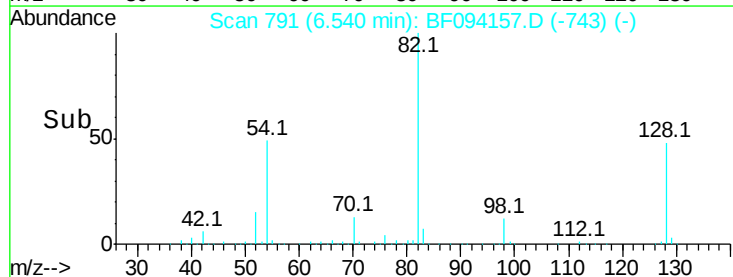
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		712332		
128	48.5	34.0	51.0		
54	48.7	42.2	63.2		

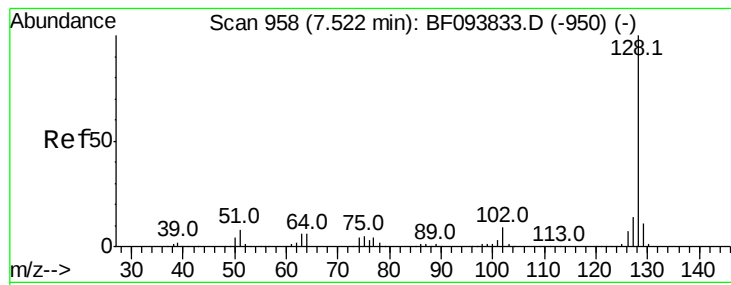


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 8.05 ng

RT: 7.42 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

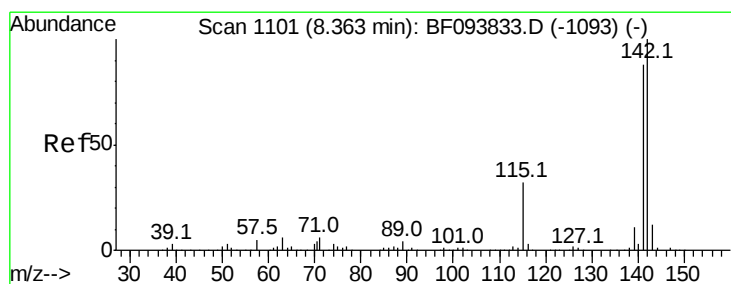
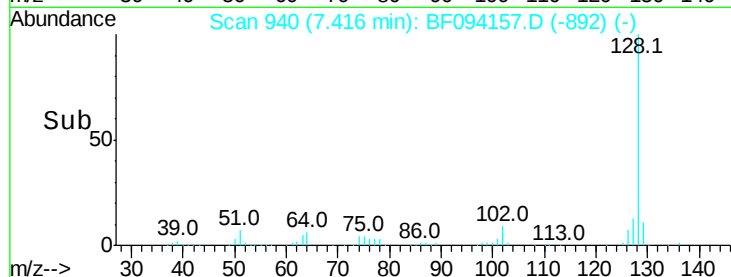
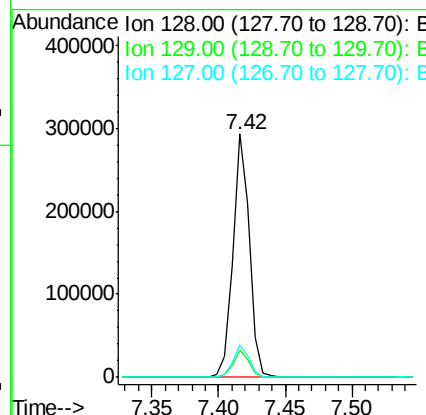
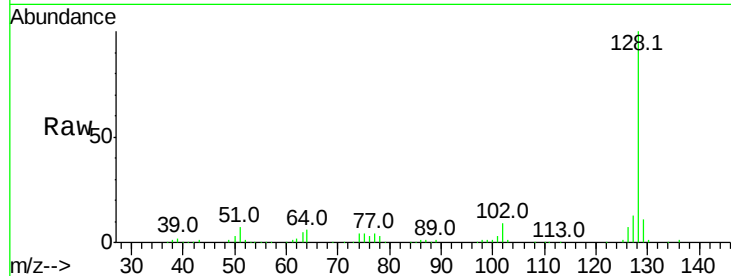
ClientSampleId :

E2-U4-WSW

Tot Ion:	128	Resp:	255240
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 5.10 ng

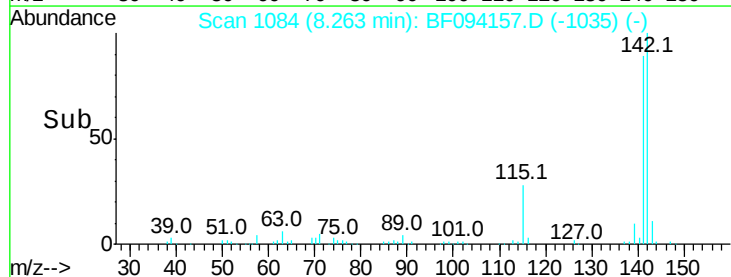
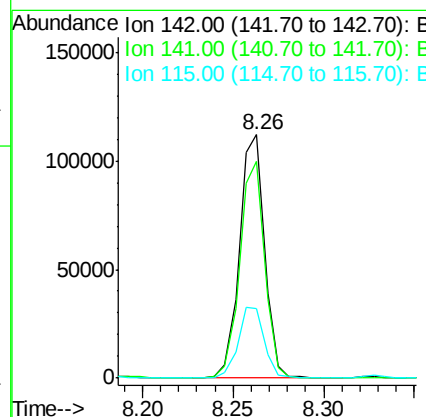
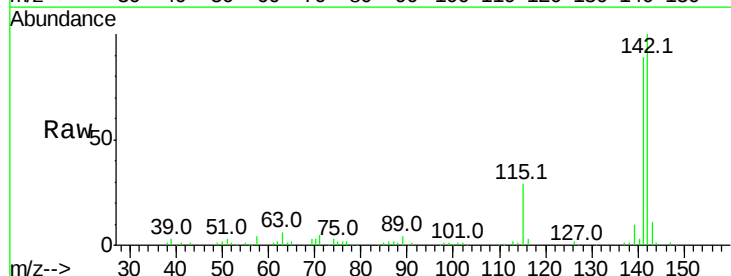
RT: 8.26 min Scan# 1084

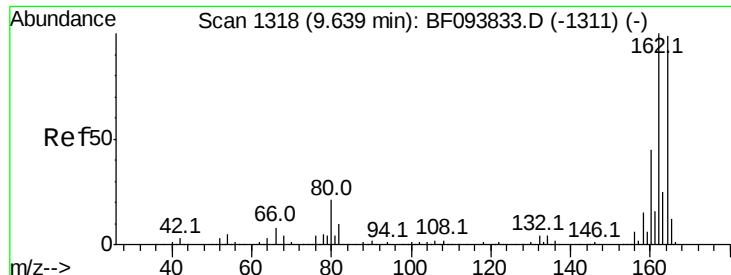
Delta R.T. -0.01 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Tgt Ion:	142	Resp:	107868
Ion Ratio	Lower	Upper	
142	100		
141	88.9	71.3	106.9
115	28.7	27.1	40.7





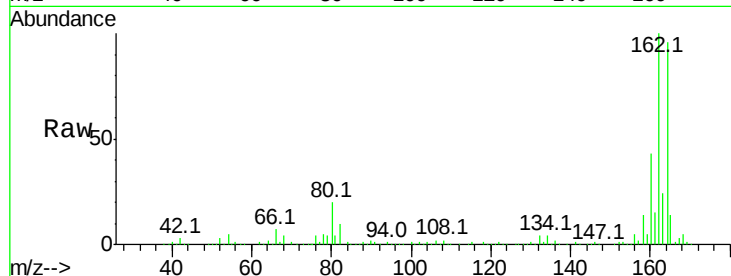
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

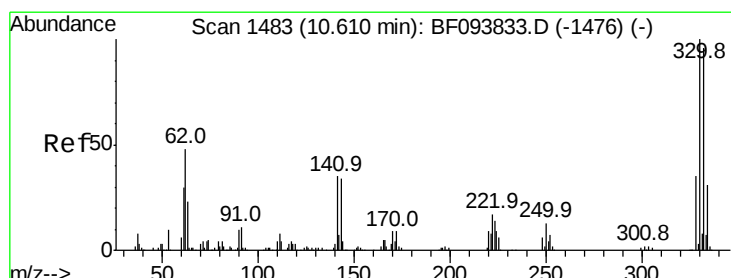
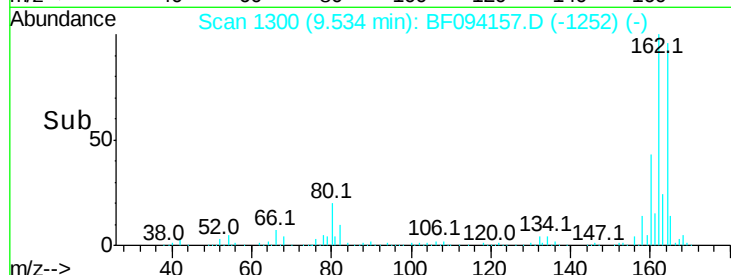
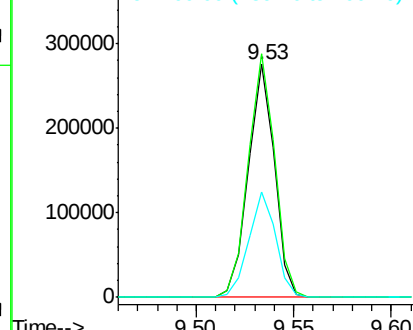
Tot Ion	Ratio	Resp	Lower	Upper
164	100	256200		
162	104.4		82.6	123.8
160	45.4		36.2	54.2

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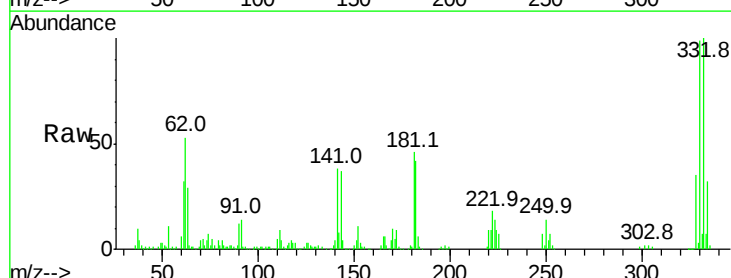


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

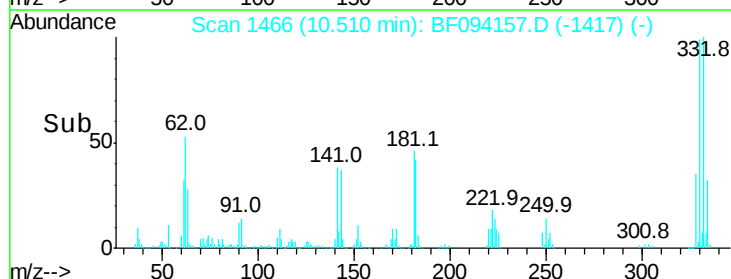
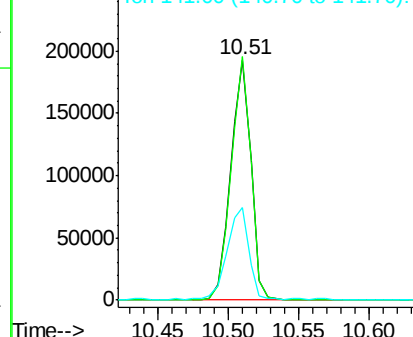


#41
2,4,6-Tribromophenol
Concen: 95.05 ng
RT: 10.51 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	192427		
332	98.6		76.6	115.0
141	41.1		31.4	47.2



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





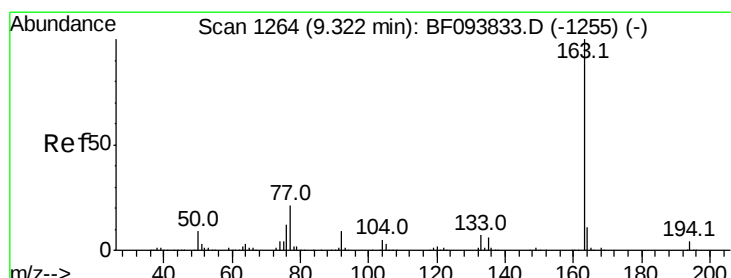
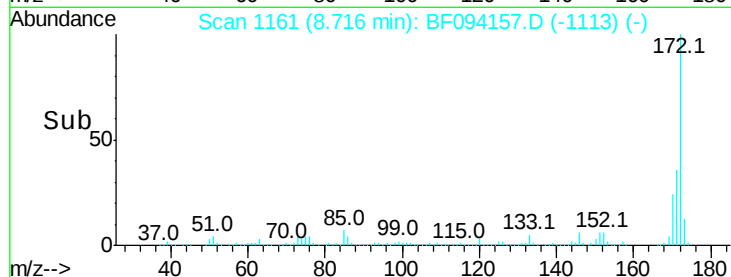
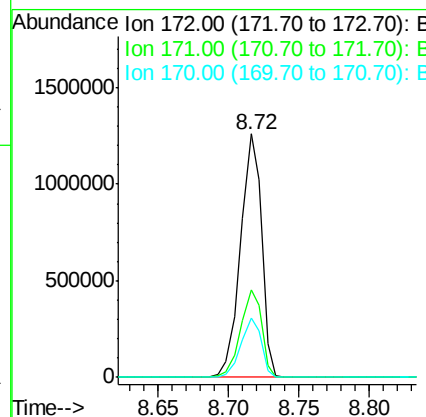
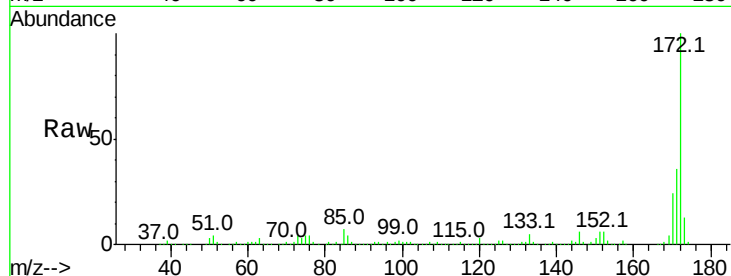
#44
2-Fluorobiphenyl
Concen: 77.96 ng
RT: 8.72 min Scan# 1161
Delta R.T. -0.02 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	24.4	19.8	29.8

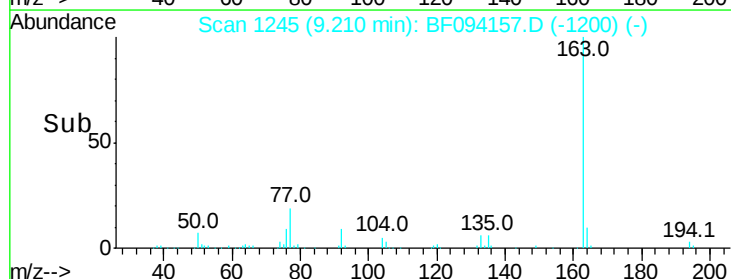
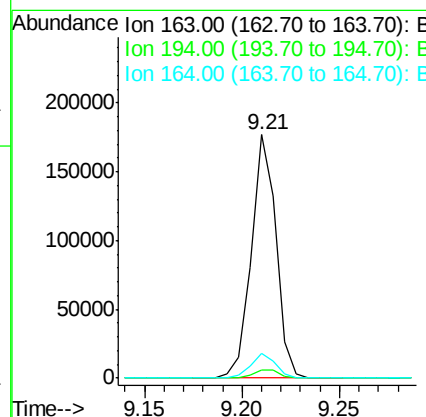
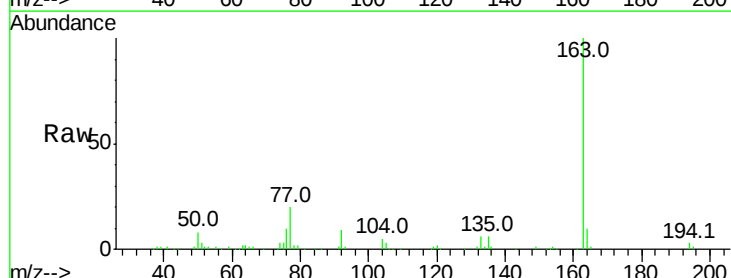
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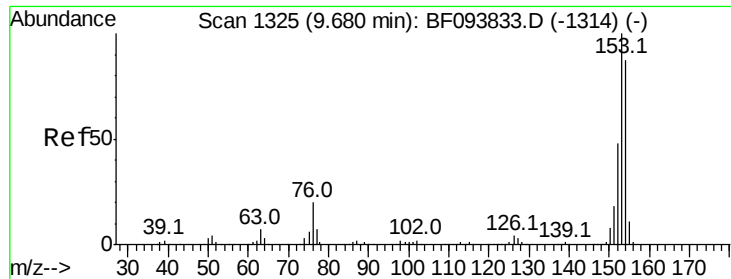
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#49
Dimethylphthalate
Concen: 8.51 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.04 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.6	4.0
164	10.1	8.4	12.6





#51

Acenaphthene

Concen: 21.06 ng

RT: 9.57 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

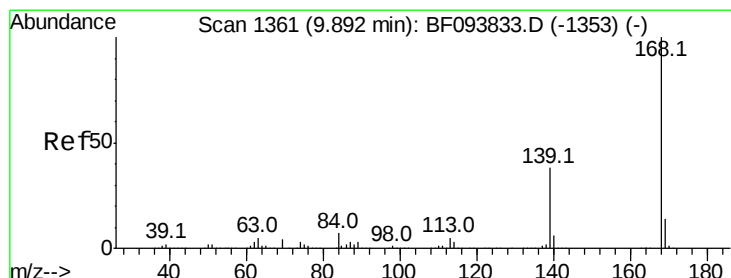
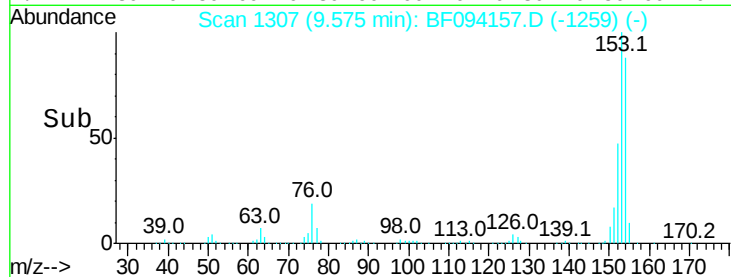
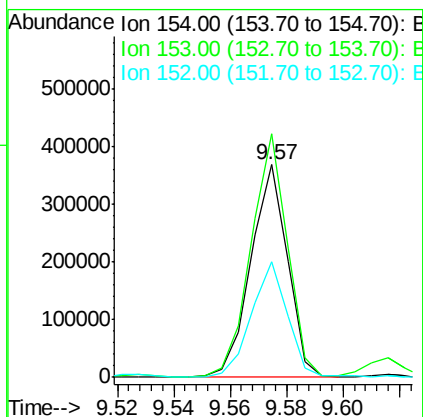
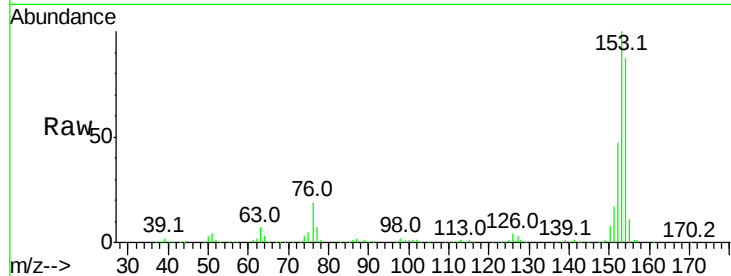
ClientSampleId :

E2-U4-WSW

Tot Ion:	154	Resp:	330371
Ion Ratio	Lower	Upper	
154	100		
153	114.5	90.5	135.7
152	54.1	43.6	65.4

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#54

Dibenzofuran

Concen: 15.31 ng

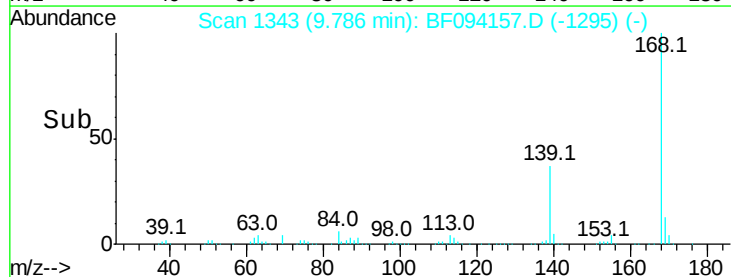
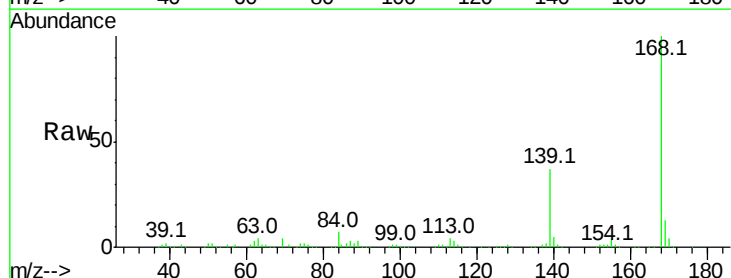
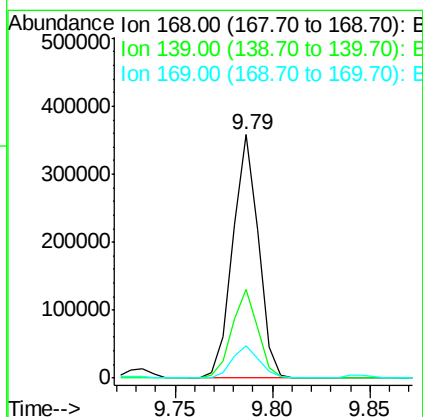
RT: 9.79 min Scan# 1343

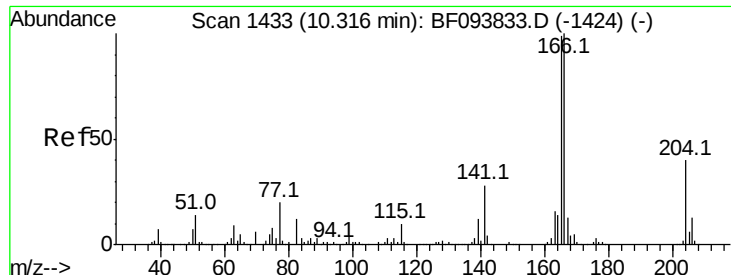
Delta R.T. -0.02 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Tgt Ion:	168	Resp:	326884
Ion Ratio	Lower	Upper	
168	100		
139	36.6	30.6	45.8
169	13.3	10.8	16.2





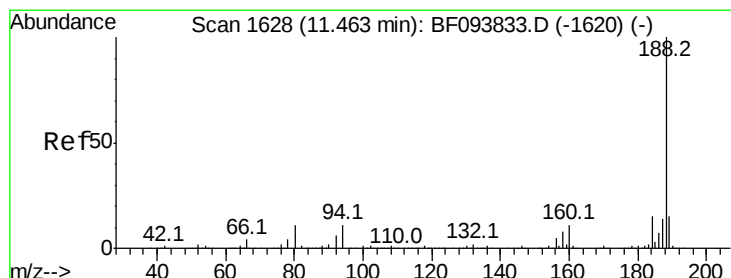
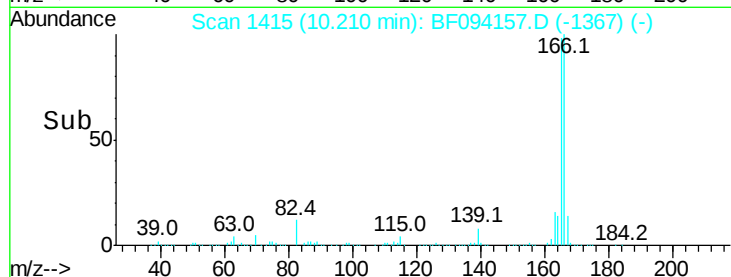
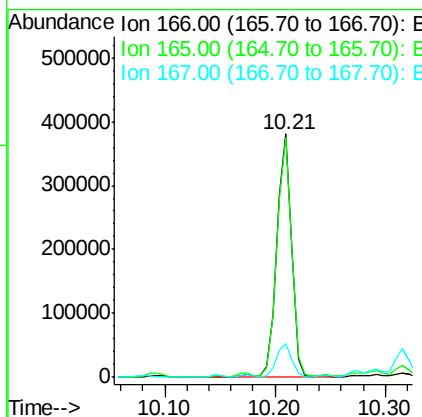
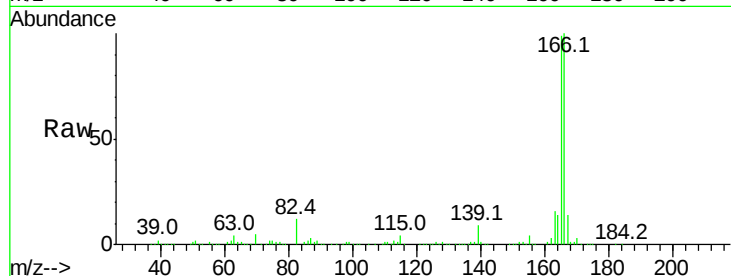
#57
Fluorene
 Concen: 20.49 ng
 RT: 10.21 min Scan# 1415
 Delta R.T. -0.02 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-WSW

Tot Ion	Ratio	Resp	Lower	Upper
166	100	362808		
165	98.5	78.8	118.2	
167	14.1	10.6	16.0	

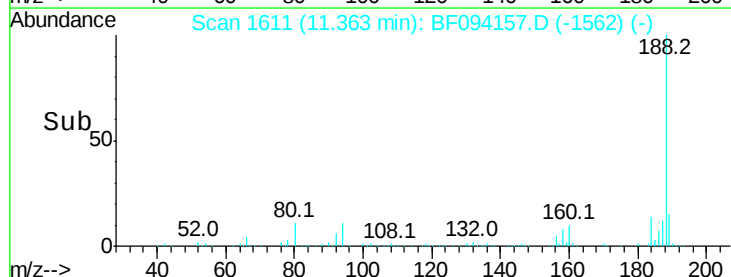
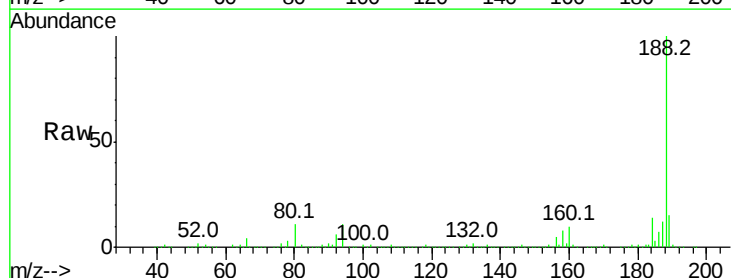
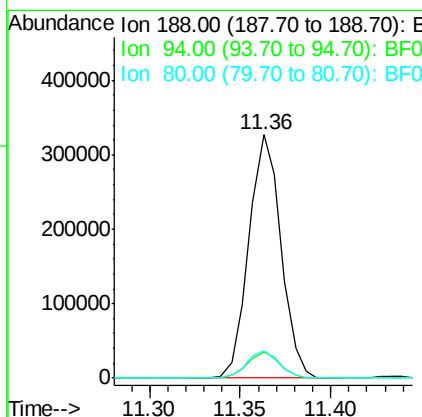
Manual Integrations
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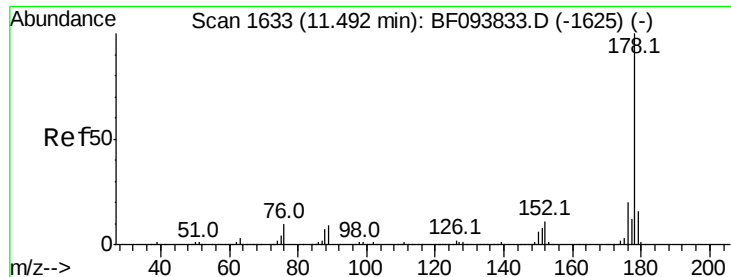
mohammad
 4/4/2017 5:35:19 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	401529		
94	10.6	9.4	14.2	
80	11.2	10.2	15.2	





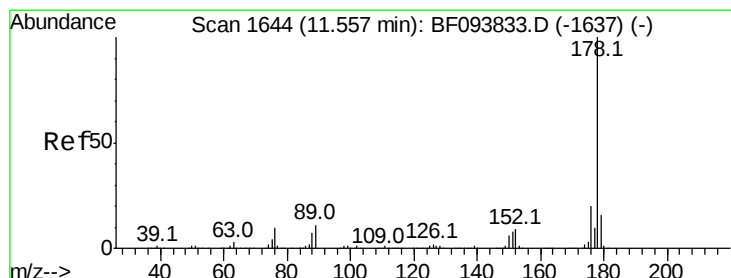
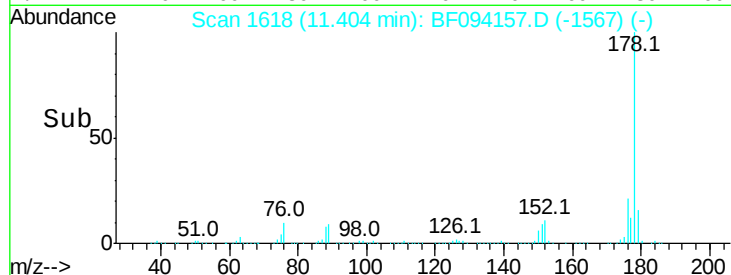
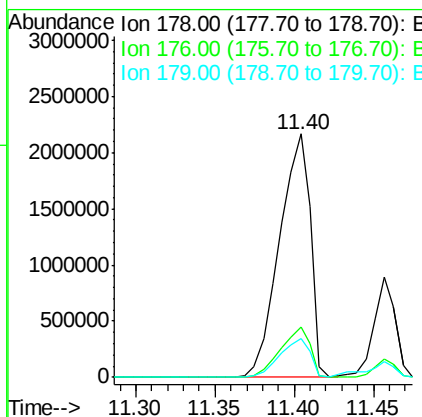
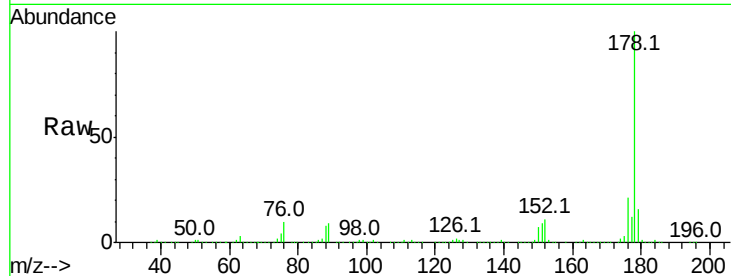
#70
 Phenanthrene
 Concen: 130.95 ng
 RT: 11.40 min Scan# 1618
 Delta R.T. 0.00 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	16.0	12.6	19.0

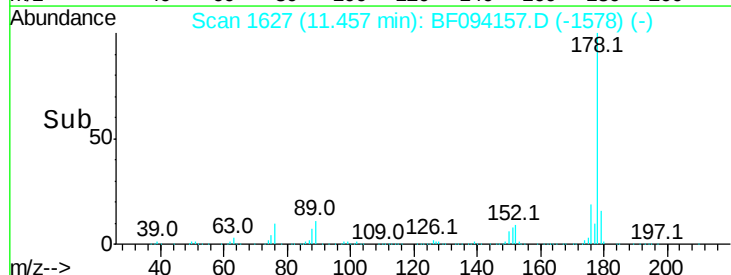
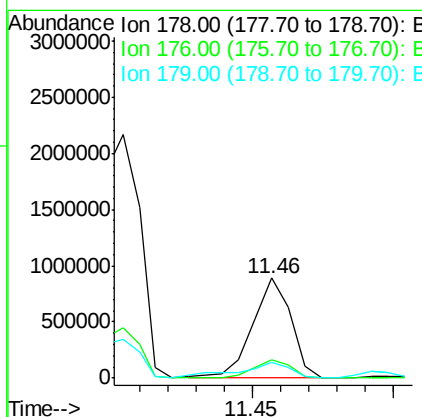
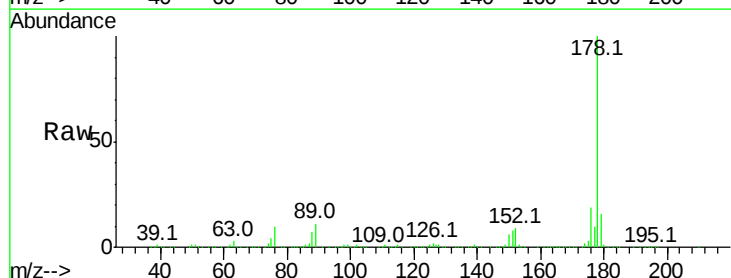
Manual Integrations
 APPROVED

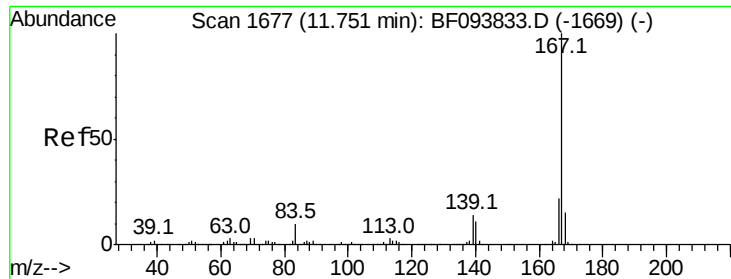
mohammad
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#71
 Anthracene
 Concen: 36.06 ng
 RT: 11.46 min Scan# 1627
 Delta R.T. -0.01 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.9	12.7	19.1





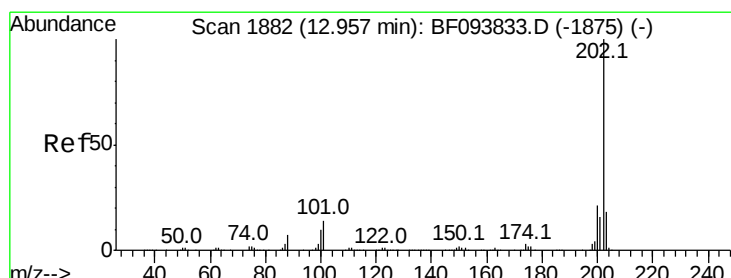
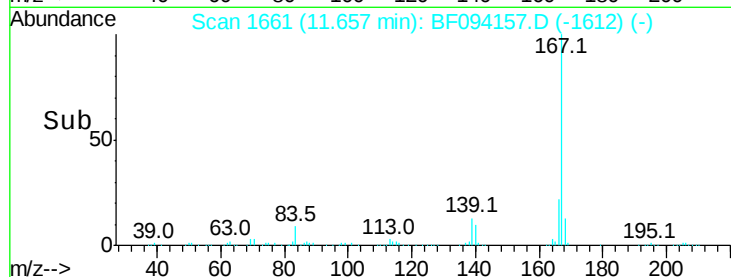
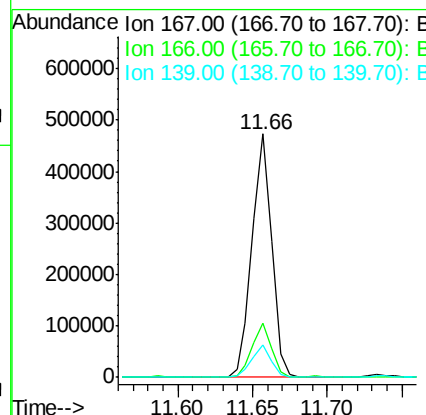
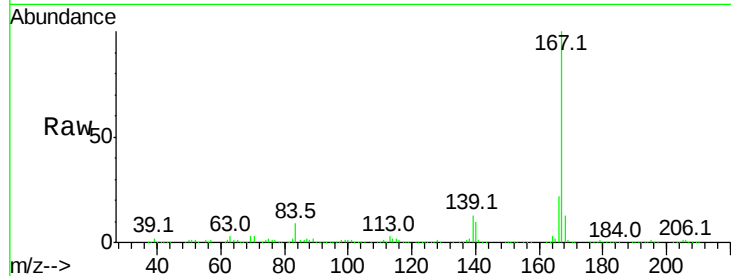
#72
 Carbazole
 Concen: 18.40 ng
 RT: 11.66 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Instrument :
 BNA_F
 ClientSampleId :
 E2-U4-WSW

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	22.2	18.1	27.1	
139	13.4	11.7	17.5	

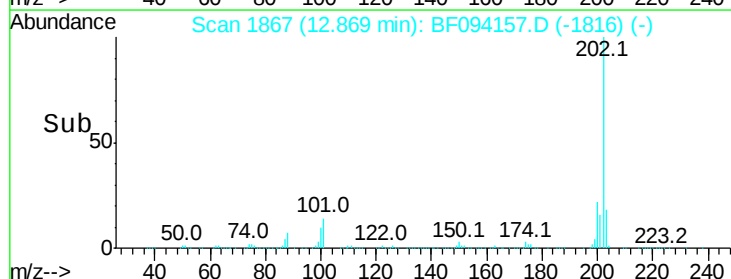
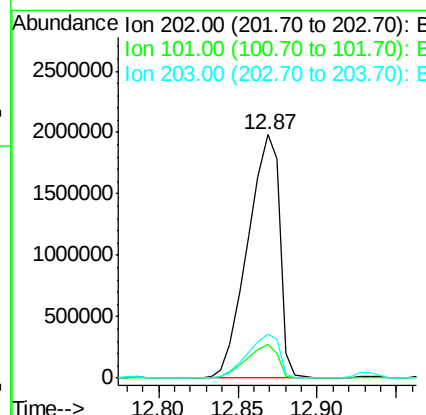
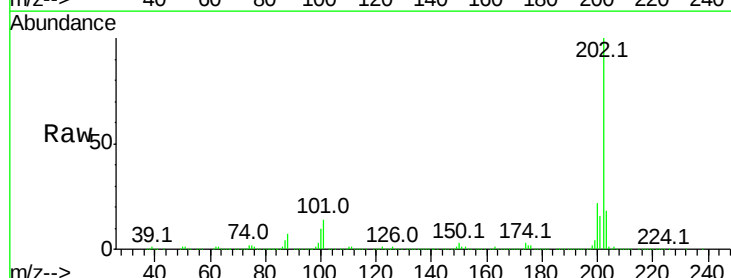
Manual Integrations
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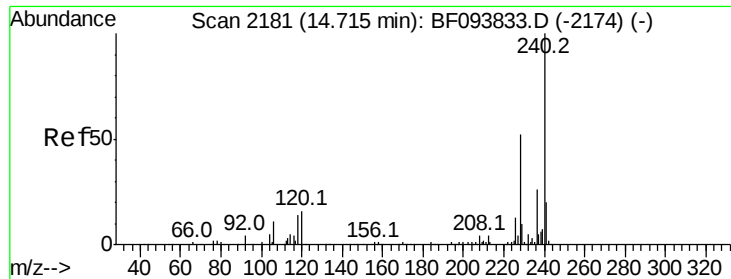
mohammad
 4/4/2017 5:35:19 PM



#74
 Fluoranthene
 Concen: 121.17 ng
 RT: 12.87 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: BF094157.D
 Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.6	0.0	33.2	
203	18.1	0.0	38.1	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

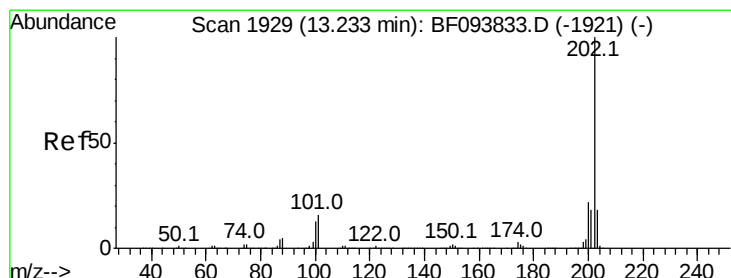
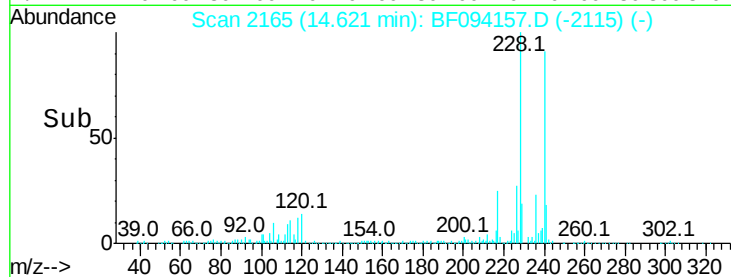
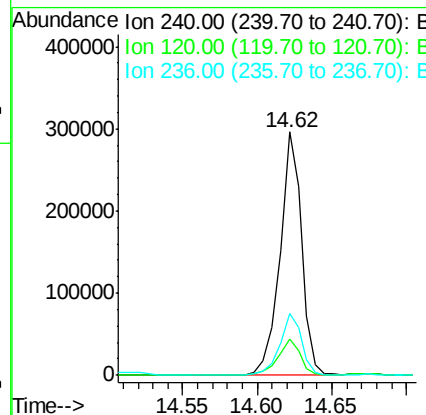
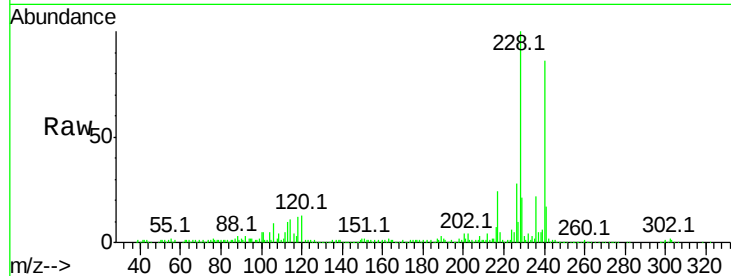
ClientSampleId :

E2-U4-WSW

Tot Ion	Ratio	Resp	Lower	Upper
240	100	297983		
120	15.1	5.8	8.8#	
236	25.5	20.5	30.7	

Manual Integrations
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#77

Pyrene

Concen: 106.10 ng

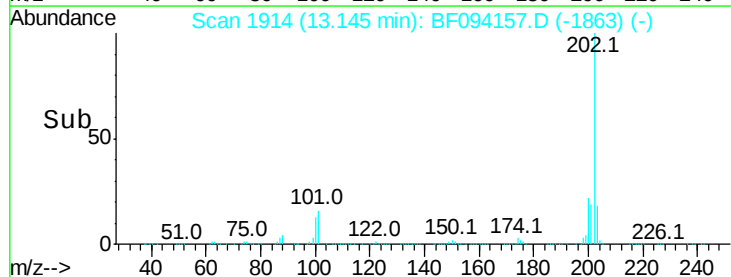
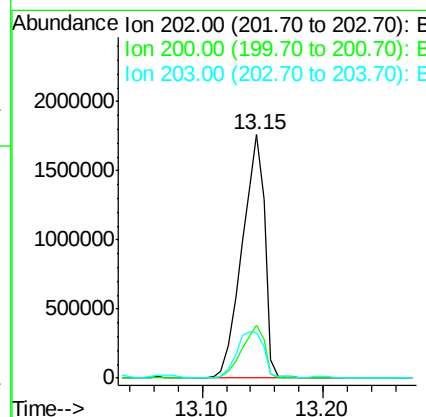
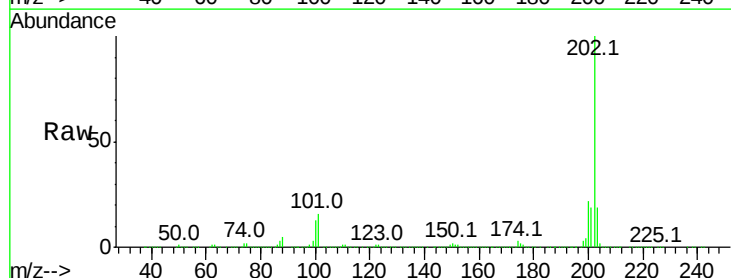
RT: 13.15 min Scan# 1914

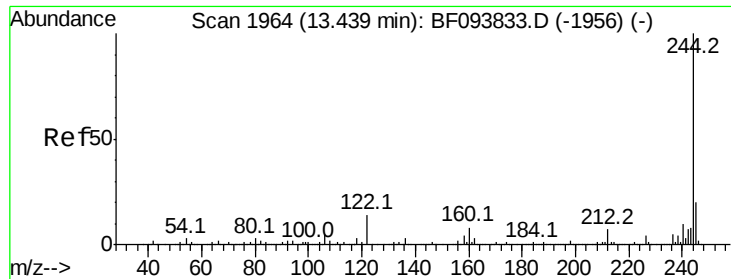
Delta R.T. 0.00 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2294419		
200	21.7	17.6	26.4	
203	18.6	14.4	21.6	





#78

Terphenyl-d14

Concen: 65.20 ng

RT: 13.34 min Scan# 1947

Delta R.T. -0.01 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

ClientSampleId :

E2-U4-WSW

Tot Ion:244 Resp: 866775

Ion Ratio Lower Upper

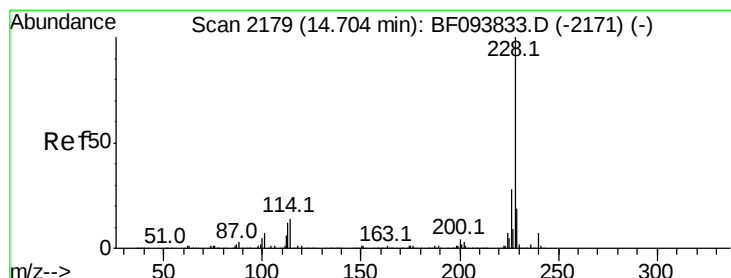
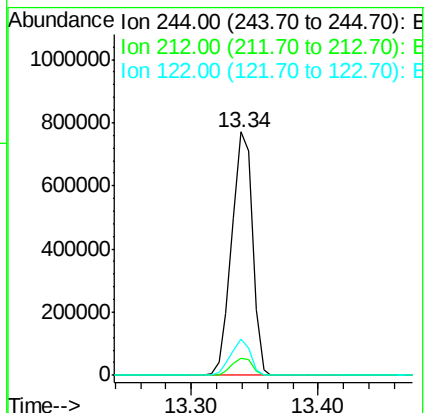
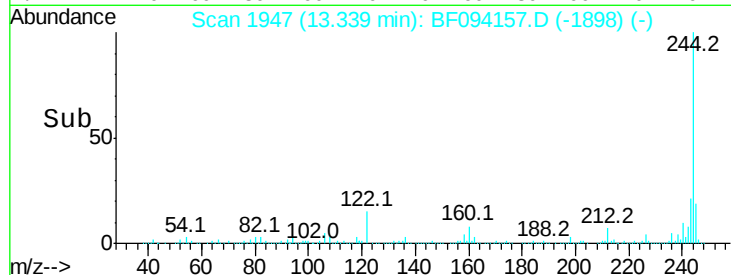
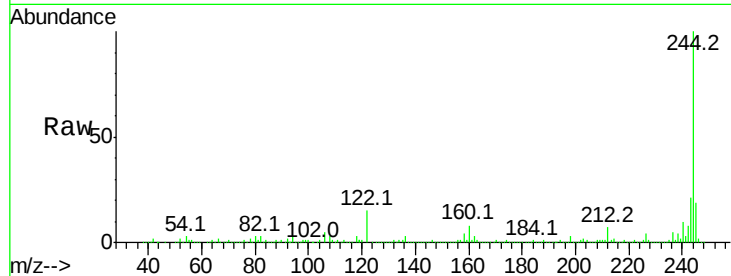
244 100

212 7.1 6.0 9.0

122 14.8 10.3 15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 62.20 ng

RT: 14.61 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

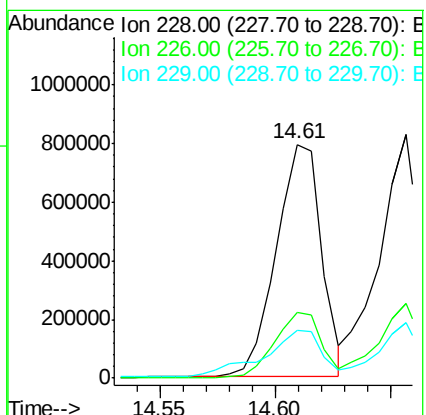
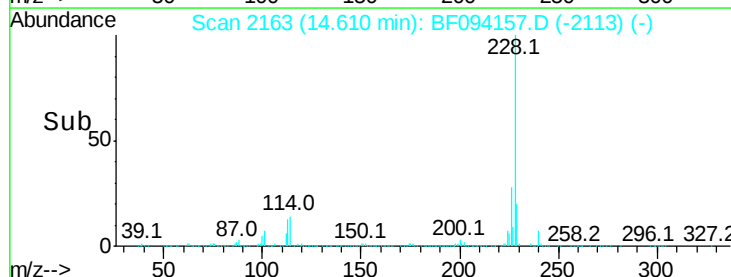
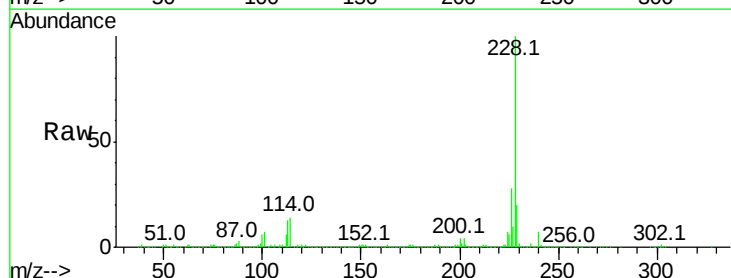
Tgt Ion:228 Resp: 1080804

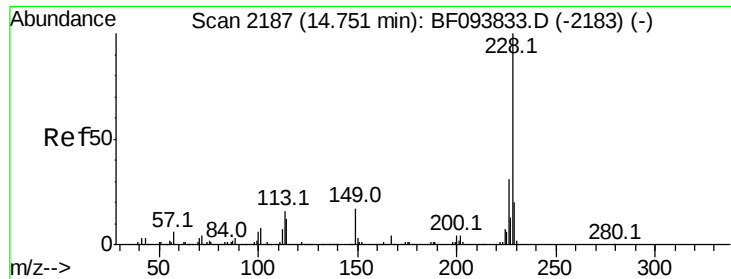
Ion Ratio Lower Upper

228 100

226 28.0 22.6 33.8

229 20.5 16.3 24.5





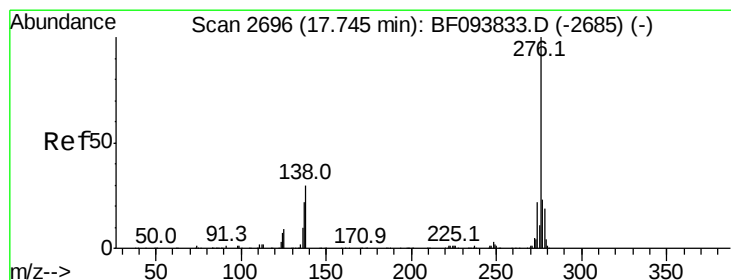
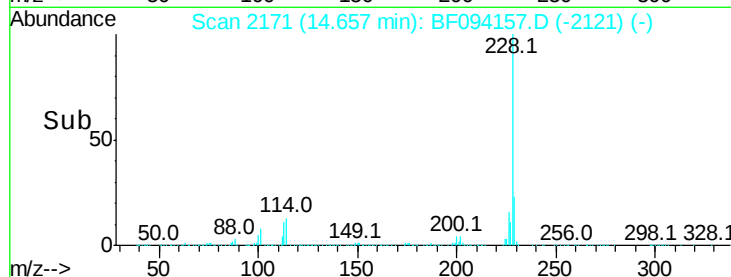
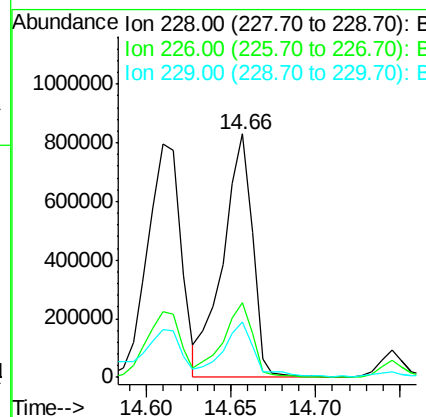
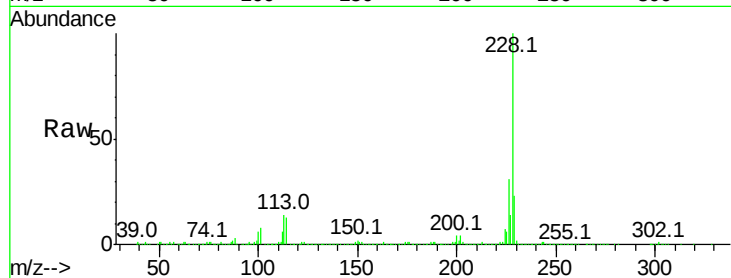
#82
Chrysene
Concen: 62.22 ng
RT: 14.66 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	22.8	15.8	23.6

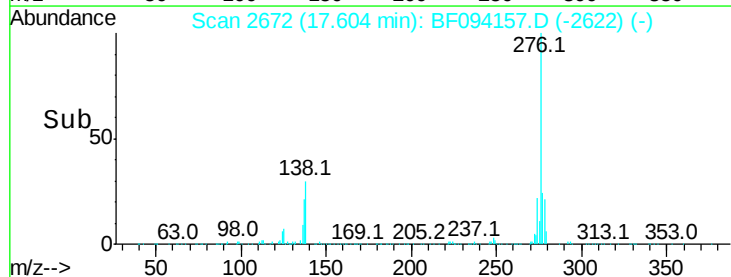
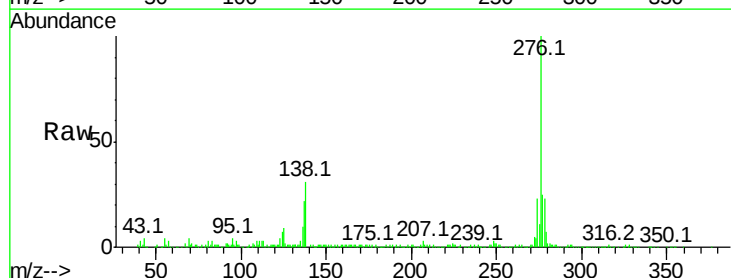
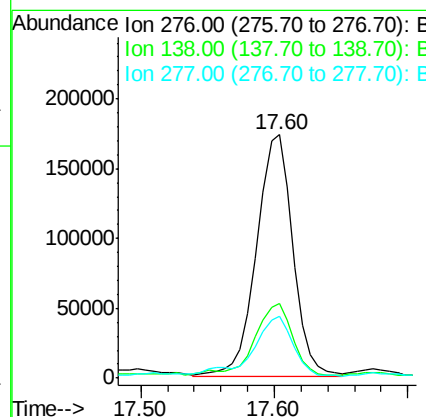
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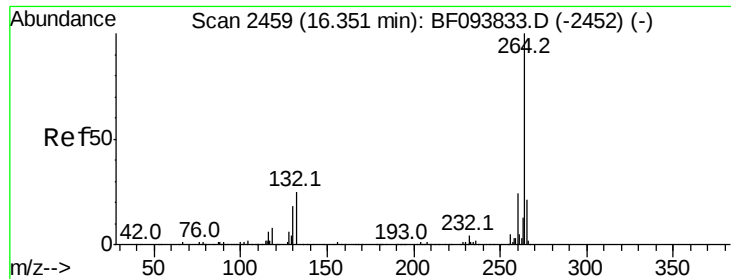
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 23.50 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
276	100		
138	31.1	27.8	41.6
277	27.6	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.25 min Scan# 2442

Delta R.T. 0.00 min

Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Instrument :

BNA_F

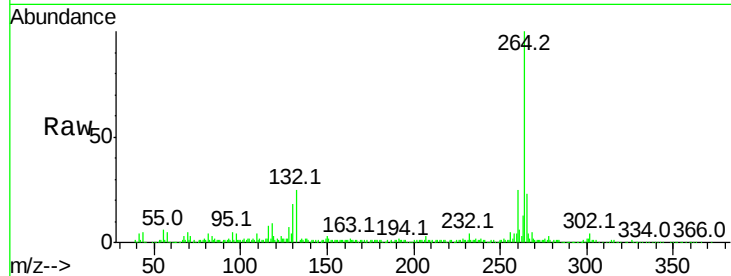
ClientSampleId :

E2-U4-WSW

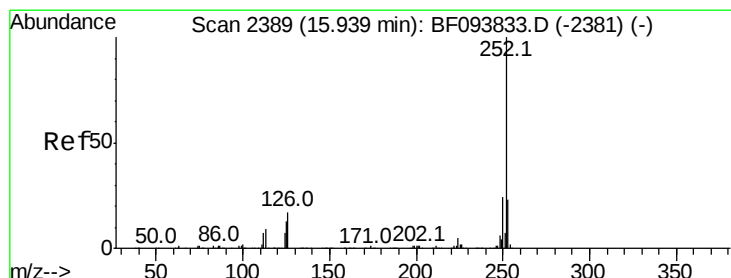
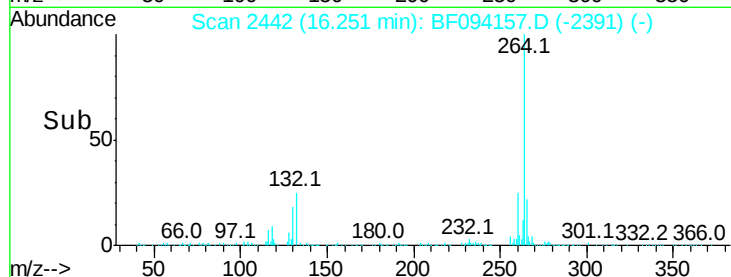
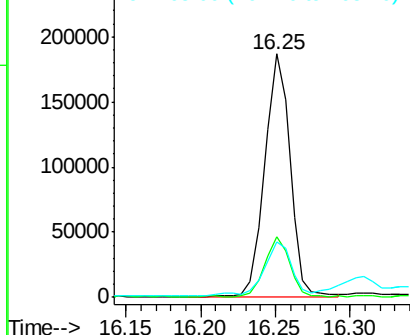
Tot Ion:	264	Resp:	219275
Ion Ratio	Lower	Upper	
264	100		
260	24.7	19.5	29.3
265	22.7	17.2	25.8

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 64.63 ng m

RT: 15.85 min Scan# 2374

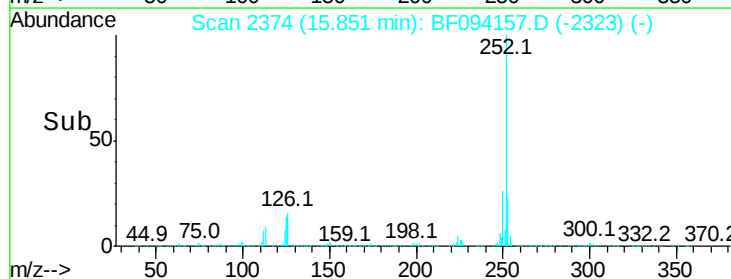
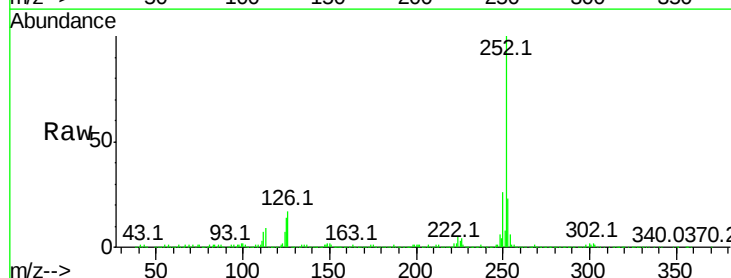
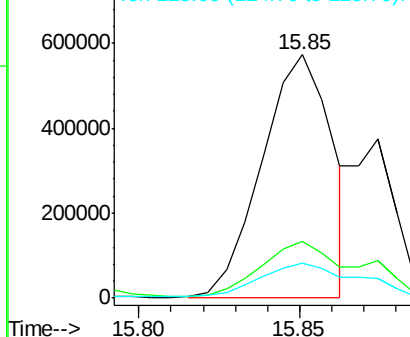
Delta R.T. 0.00 min

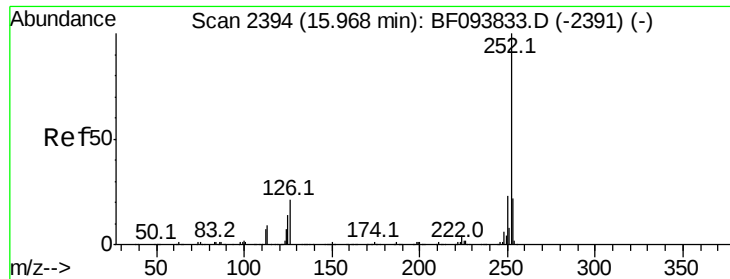
Lab File: BF094157.D

Acq: 4 Apr 2017 9:25

Tgt Ion:	252	Resp:	868664
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.1	27.1
125	14.5	9.8	14.8

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





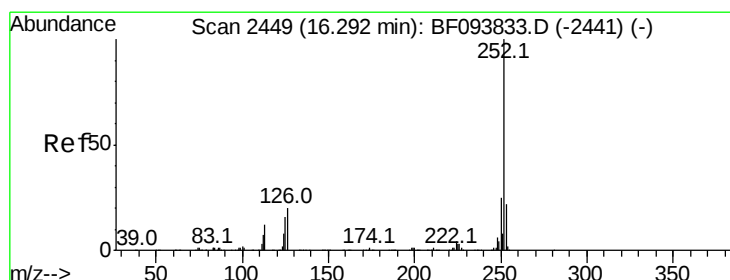
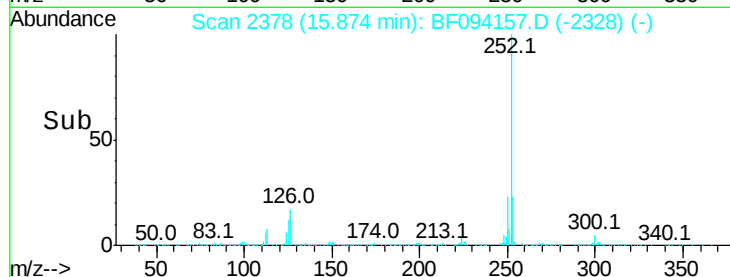
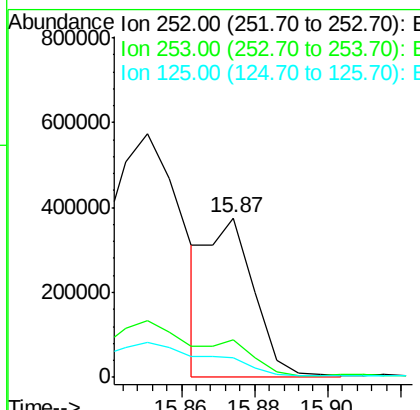
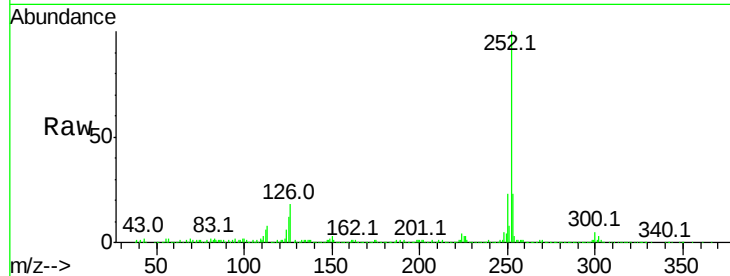
#88
Benzo(k)fluoranthene
Concen: 25.51 ng m
RT: 15.87 min Scan# 2378
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	12.5	13.1	19.7

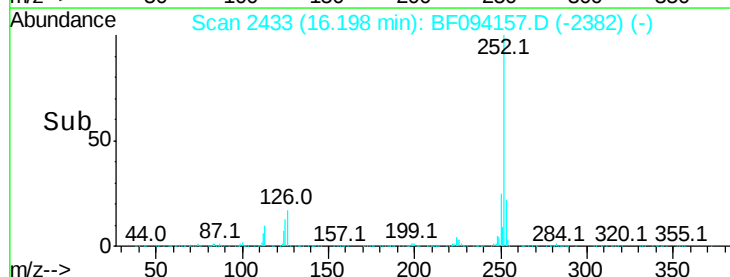
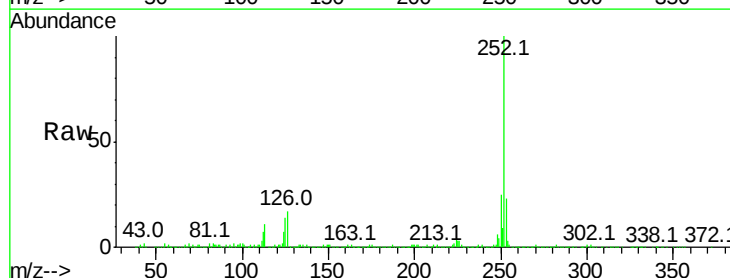
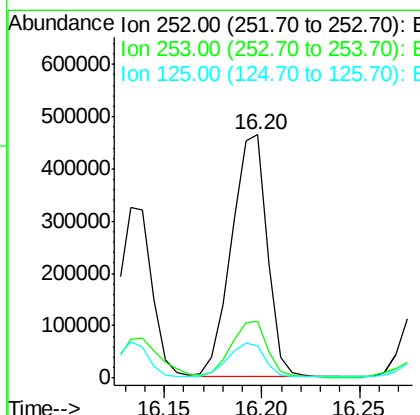
Manual Integrations
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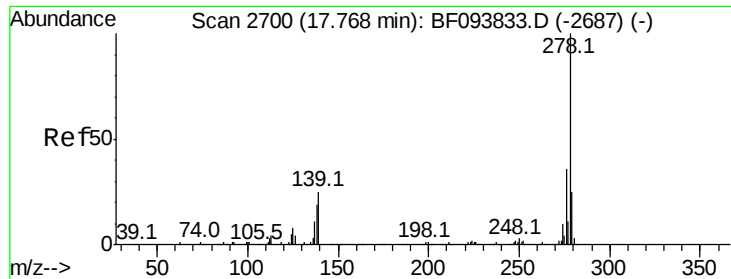
mohammad
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#89
Benzo(a)pyrene
Concen: 47.16 ng
RT: 16.20 min Scan# 2433
Delta R.T. 0.00 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	13.5	11.0	16.4





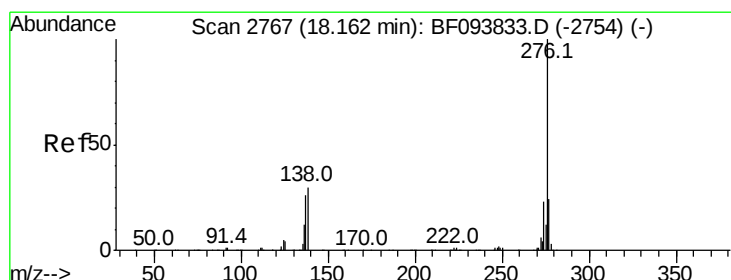
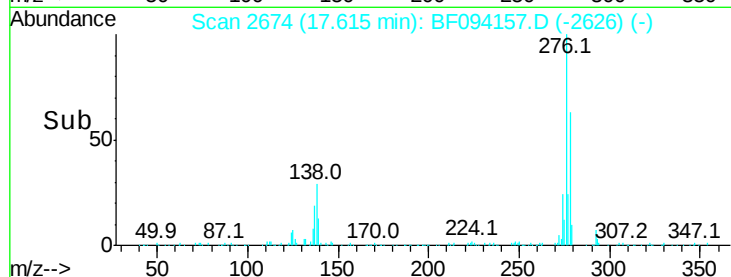
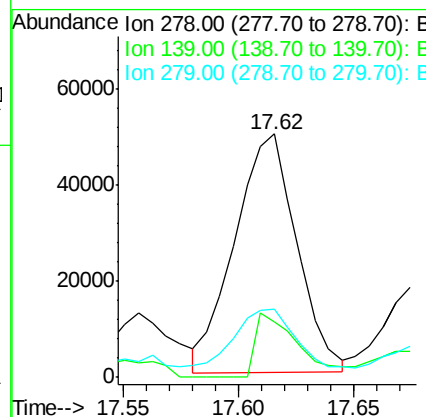
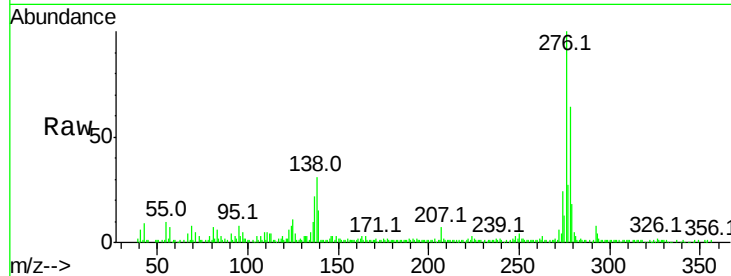
#90
Dibenzo(a,h)anthracene
Concen: 8.86 ng
RT: 17.62 min Scan# 2674
Delta R.T. -0.02 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Instrument :
BNA_F
ClientSampleId :
E2-U4-WSW

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.0	16.6	24.8
279	27.8	19.3	28.9

Manual Integrations
APPROVED

mohammad
4/4/2017 5:35:19 PM



#91
Benzo(g,h,i)perylene
Concen: 27.26 ng
RT: 18.00 min Scan# 2739
Delta R.T. -0.01 min
Lab File: BF094157.D
Acq: 4 Apr 2017 9:25

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.6	28.0
138	32.1	25.4	38.0

