

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093206.D
 Acq On : 27 Feb 2017 13:58
 Operator : SJ/MA
 Sample : I1973-18
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-SOUTHSW-1

Manual Integrations
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Quant Time: Feb 27 15:16:22 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	6.83	152	160355	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	596300	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	237757	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	346201	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	321202	20.00	ng	-0.01
86) Perylene-d12	15.45	264	290985	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	824270	88.19	ng	-0.02
7) Phenol-d6	6.48	99	982002	81.66	ng	-0.01
23) Nitrobenzene-d5	7.40	82	698207	65.20	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	146688	85.30	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	1032396	78.67	ng	-0.01
78) Terphenyl-d14	12.96	244	655217	47.93	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.49	94	81181	5.77	ng	87
31) Naphthalene	8.14	128	85412	2.83	ng	97
48) Acenaphthylene	9.74	152	66092	2.84	ng	98
49) Dimethylphthalate	9.61	163	167811	10.48	ng	98
51) Acenaphthene	9.92	154	60905	4.38	ng	97
54) Dibenzofuran	10.09	168	63610	3.42	ng	94
57) Fluorene	10.43	166	69299	4.84	ng	97
70) Phenanthrene	11.39	178	728971	36.75	ng	99
71) Anthracene	11.45	178	207195	10.40	ng	96
72) Carbazole	11.61	167	66135	3.47	ng	96
74) Fluoranthene	12.58	202	825549	40.35	ng	96
77) Pvrene	12.81	202	768609	31.98	ng	100
80) Benzo(a)anthracene	14.00	228	469867	23.92	ng	97
82) Chrysene	14.03	228	337537	18.35	ng	98
85) Indeno(1,2,3-cd)pyrene	16.85	276	186749	13.11	ng	97
87) Benzo(b)fluoranthene	15.04	252	527985m	27.57	ng	
88) Benzo(k)fluoranthene	15.06	252	154483m	9.34	ng	
89) Benzo(a)pyrene	15.38	252	364244	21.99	ng	# 97
90) Dibenzo(a,h)anthracene	16.85	278	51724	3.86	ng	# 76
91) Benzo(a,h,i)perylene	17.28	276	172717	12.77	ng	# 88

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

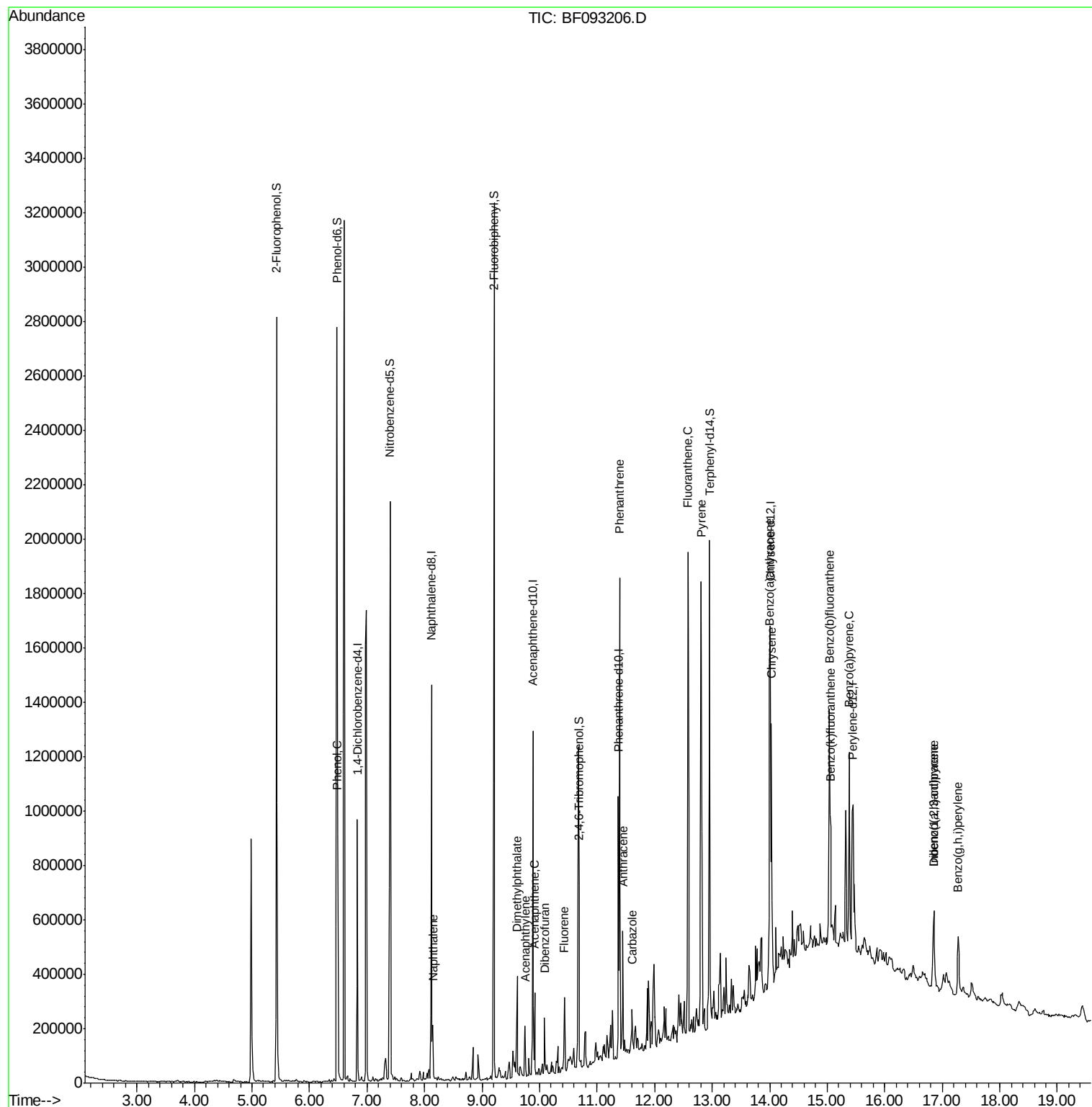
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
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Acq On : 27 Feb 2017 13:58
Operator : SJ/MA
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Misc :
ALS Vial : 10 Sample Multiplier: 1

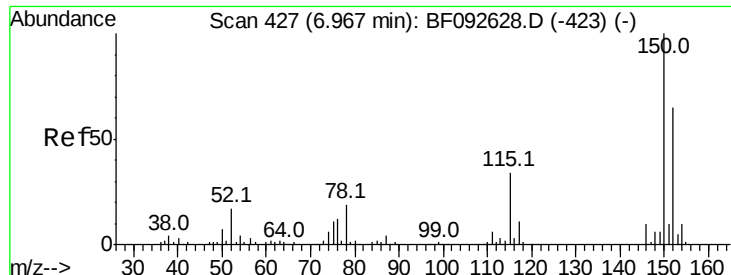
Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Manual Integrations
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Quant Time: Feb 27 15:16:22 2017
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

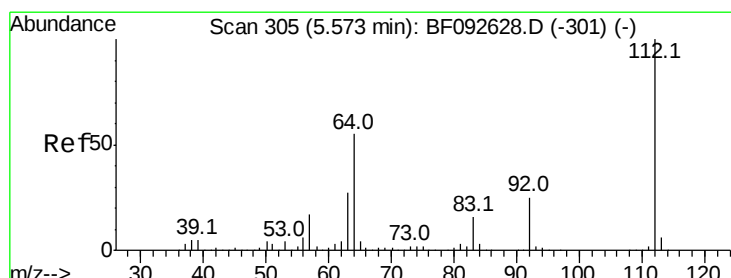
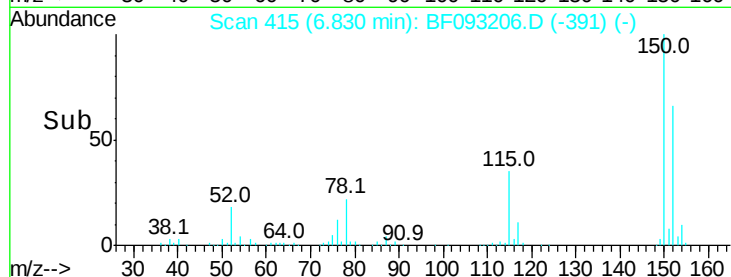
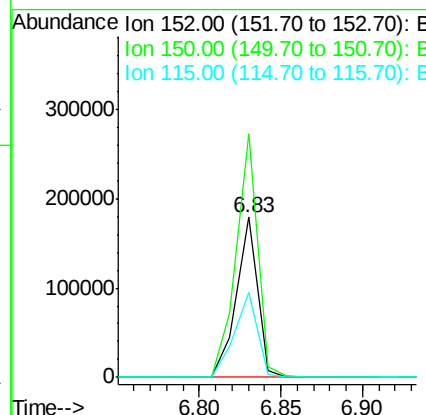
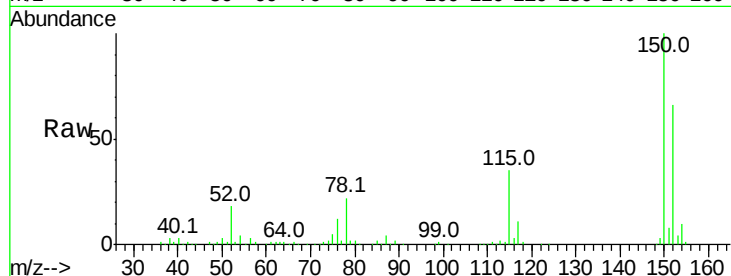
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.83 min Scan# 415
 Delta R.T. -0.02 min
 Lab File: BF093206.D
 Acq: 27 Feb 2017 13:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.9	187.3
115	53.3	46.0	69.0

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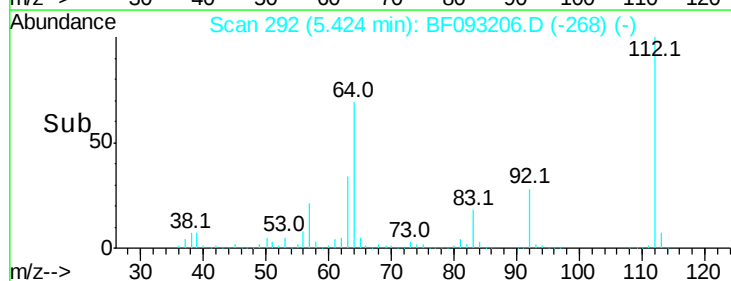
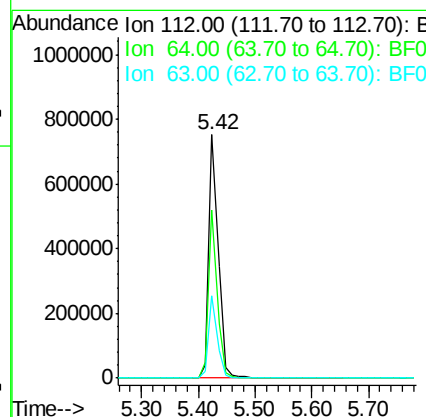
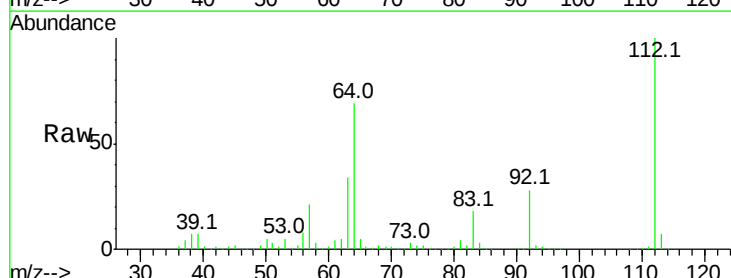
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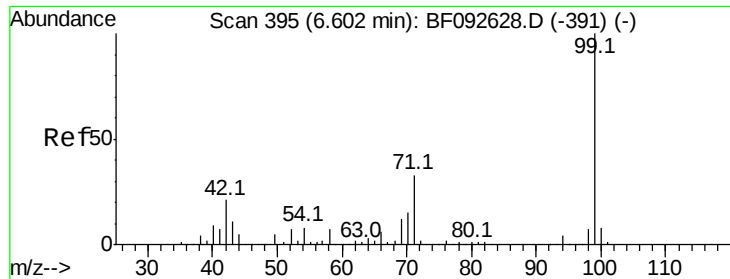


#5

2-Fluorophenol
 Concen: 88.19 ng
 RT: 5.42 min Scan# 292
 Delta R.T. -0.02 min
 Lab File: BF093206.D
 Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.0	46.1	69.1
63	33.9	23.8	35.6





#7

Phenol-d6

Concen: 81.66 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

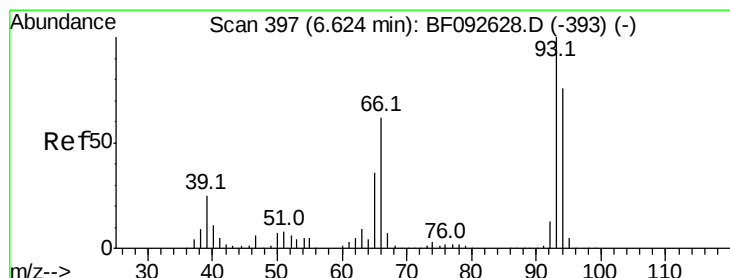
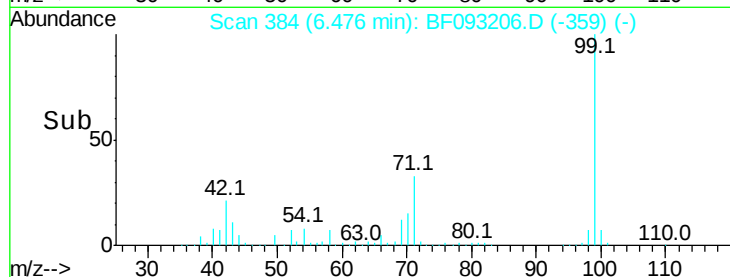
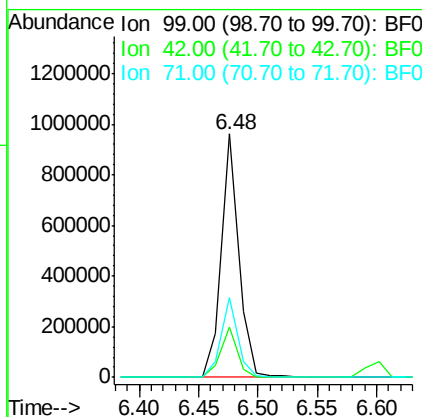
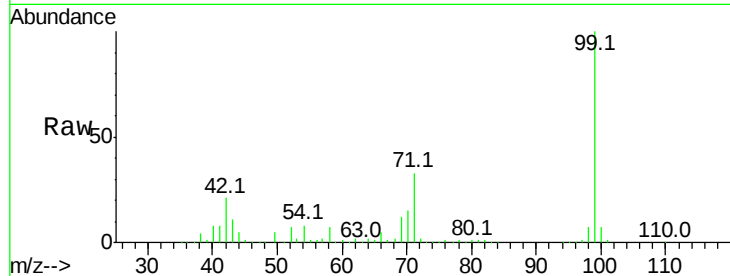
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		982002		
42	20.6	15.6	23.4		
71	32.7	27.5	41.3		

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#10

Phenol

Concen: 5.77 ng

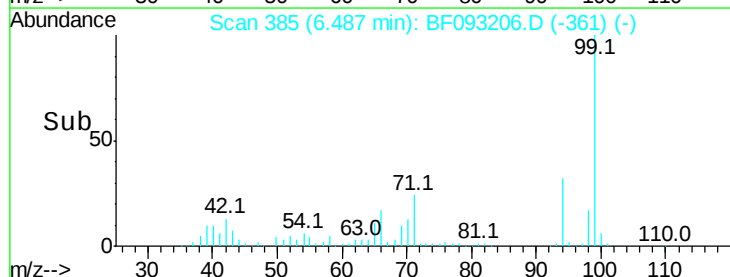
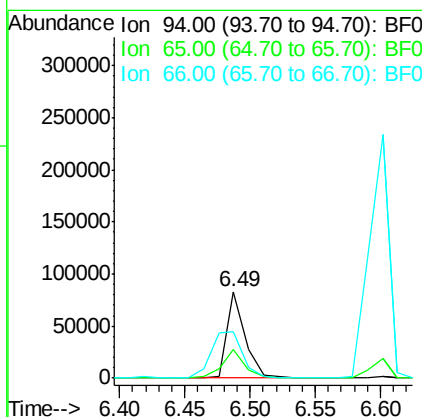
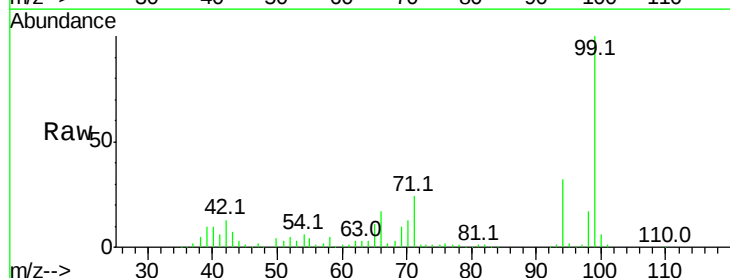
RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		81181		
65	33.3	21.4	61.4		
66	53.2	44.0	84.0		





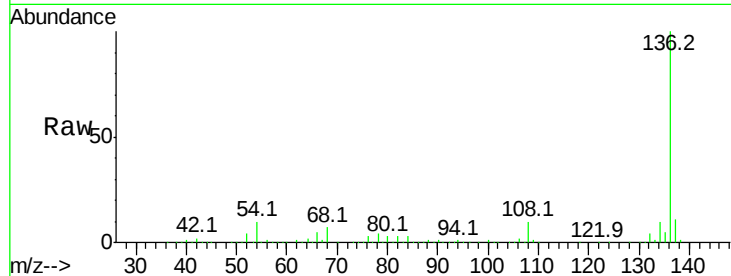
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.02 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

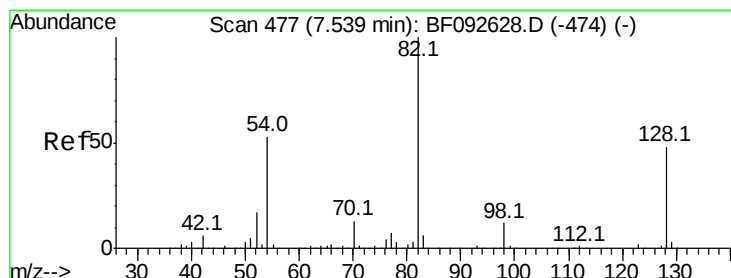
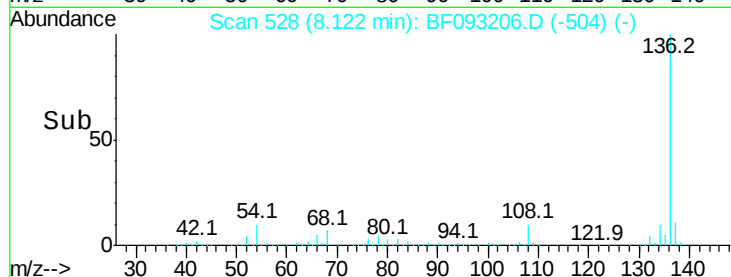
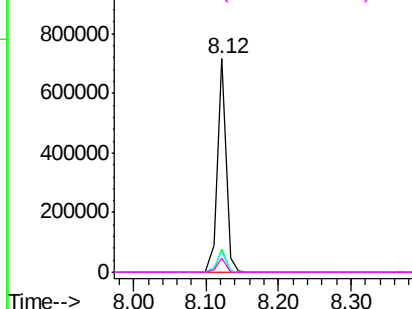
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.7	8.4	12.6	
54	9.5	4.5	6.7#	
68	6.6	3.6	5.4#	

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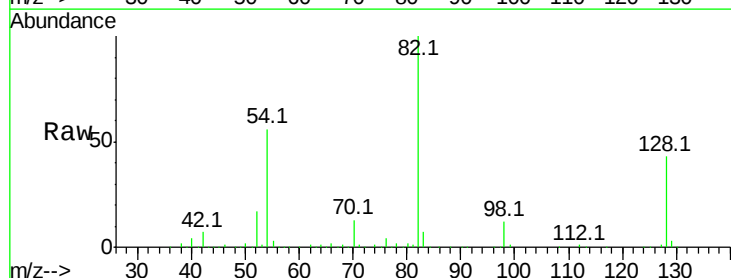


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

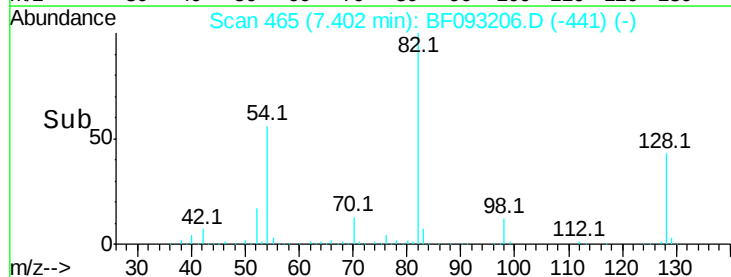
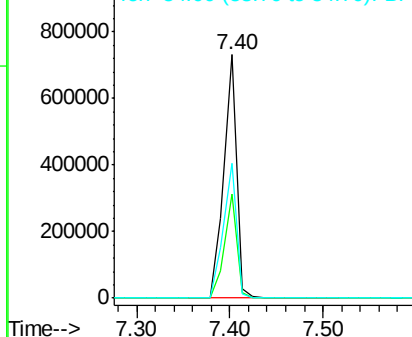


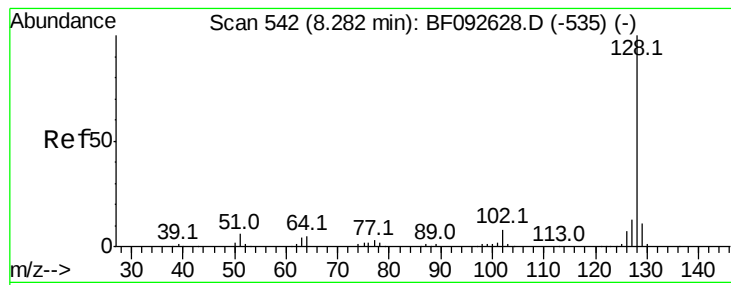
#23
Nitrobenzene-d5
Concen: 65.20 ng
RT: 7.40 min Scan# 465
Delta R.T. -0.02 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.7	34.6	52.0	
54	55.6	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: 2.83 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

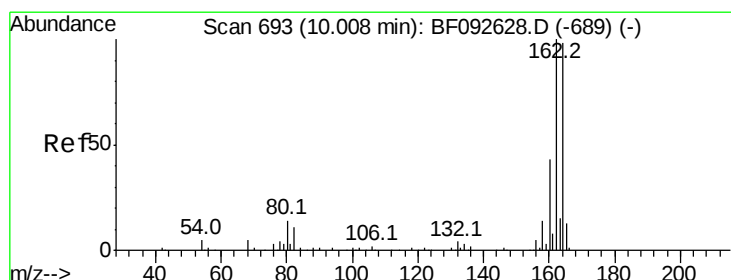
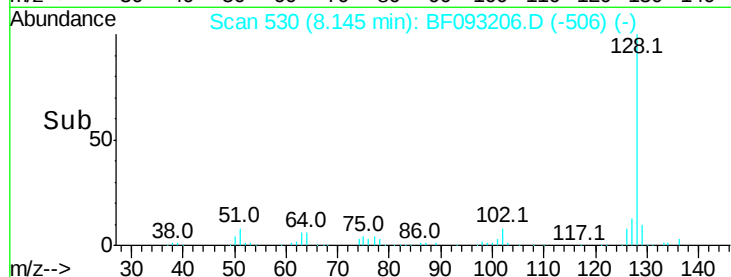
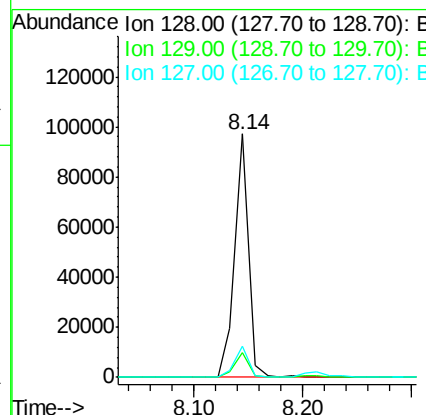
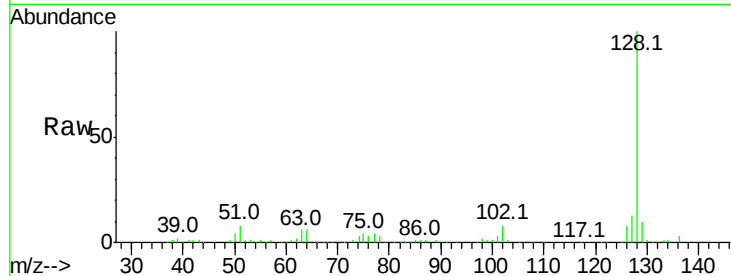
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion:128	Resp:	85412
Ion Ratio	Lower	Upper
128	100	
129	10.3	9.5 14.3
127	12.8	10.8 16.2

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#38

Acenaphthene-d10

Concen: 20.00 ng

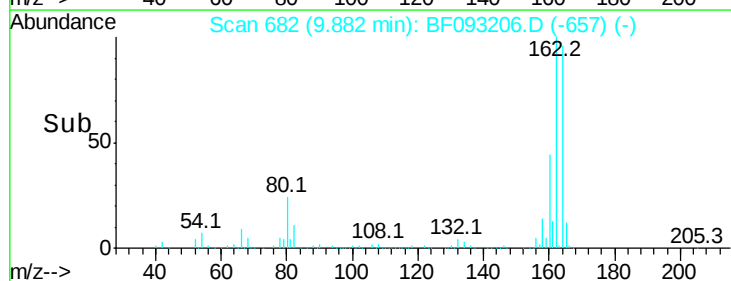
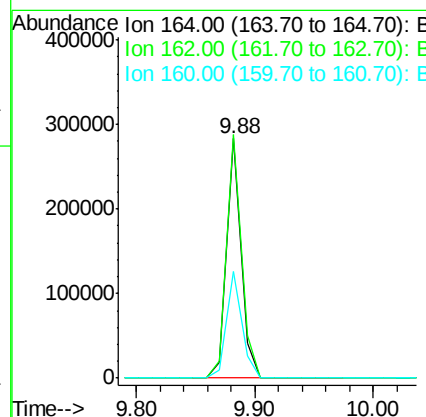
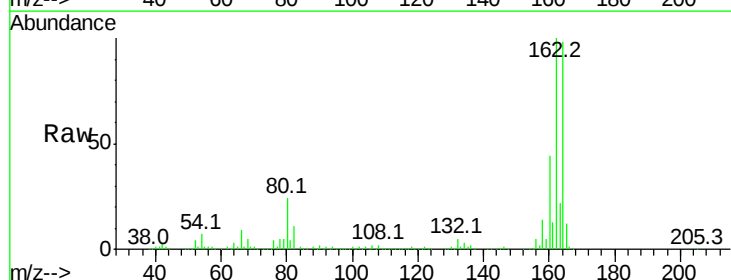
RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion:164	Resp:	237757
Ion Ratio	Lower	Upper
164	100	
162	101.6	80.2 120.2
160	44.4	36.9 55.3





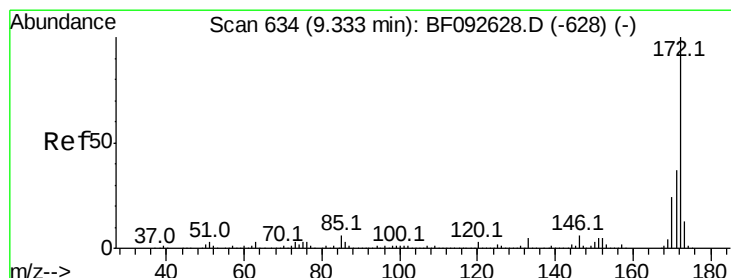
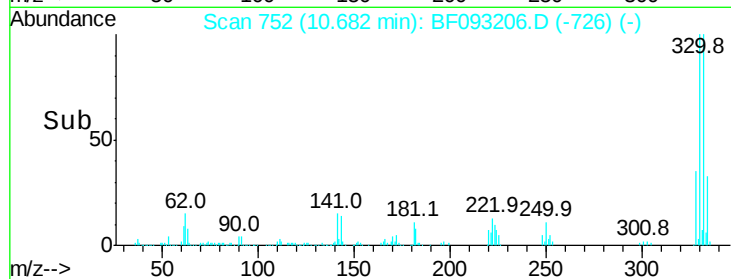
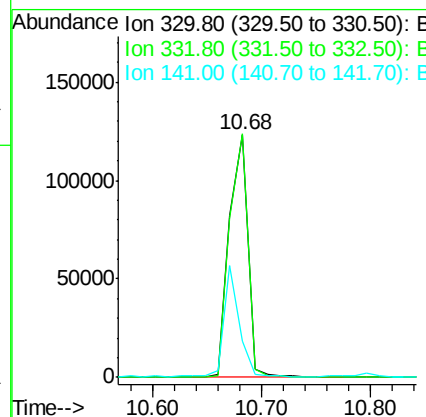
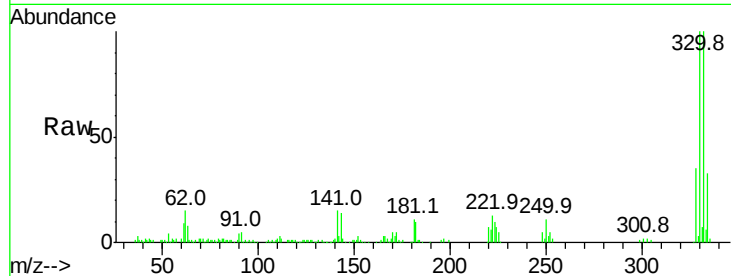
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 2,4,6-Tribromophenol
 Concen: 85.30 ng
 RT: 10.68 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: BF093206.D
 Acq: 27 Feb 2017 13:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.2	77.4	116.2	
141	38.5	34.1	51.1	

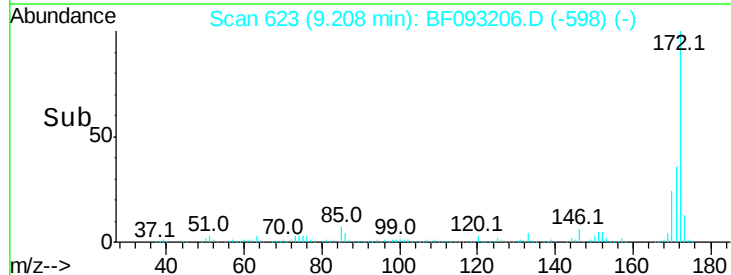
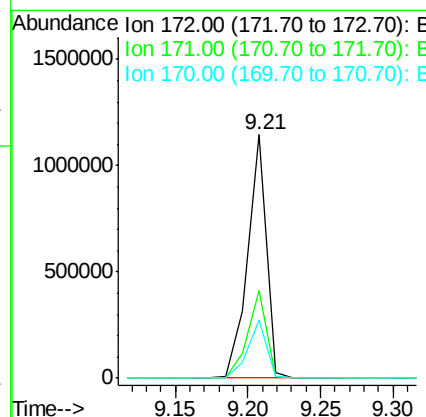
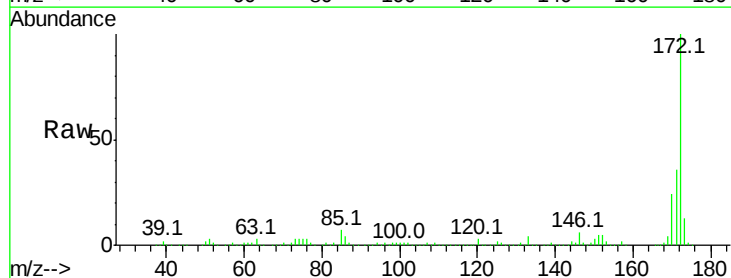
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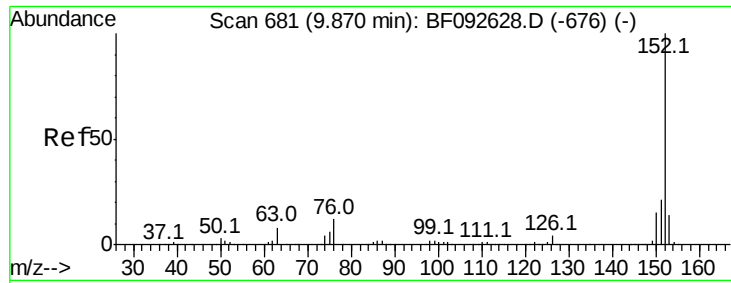
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#44
 2-Fluorobiphenyl
 Concen: 78.67 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.01 min
 Lab File: BF093206.D
 Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.0	29.4	44.0	
170	24.0	20.2	30.4	





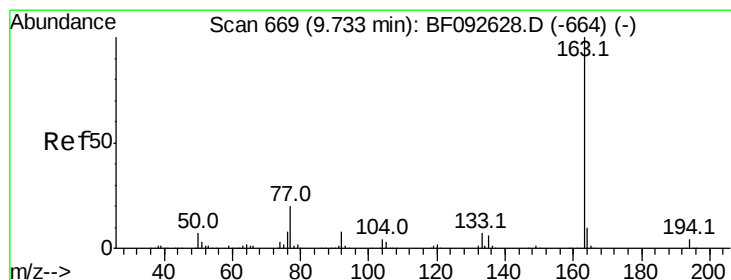
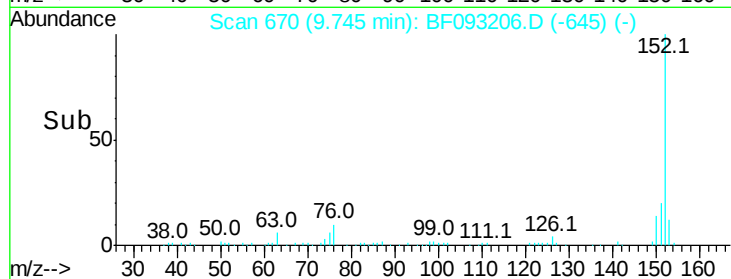
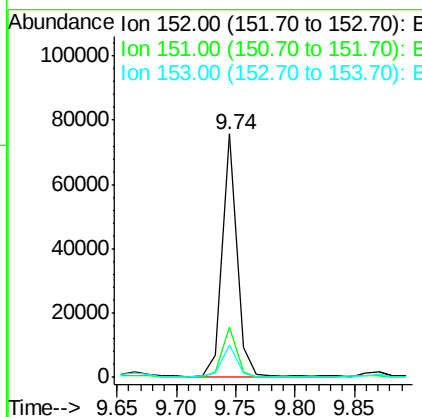
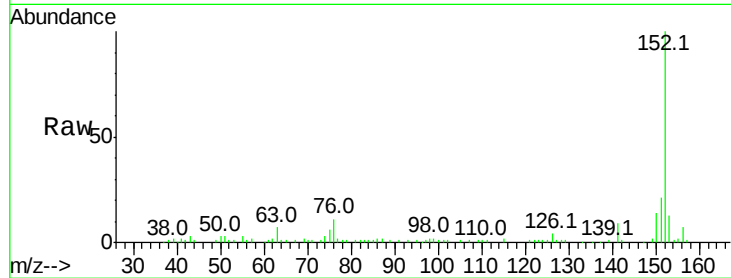
#48
Acenaphthylene
Concen: 2.84 ng
RT: 9.74 min Scan# 670
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.9	25.3
153	13.2	11.4	17.2

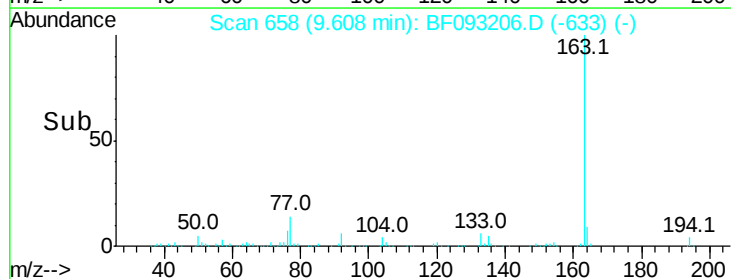
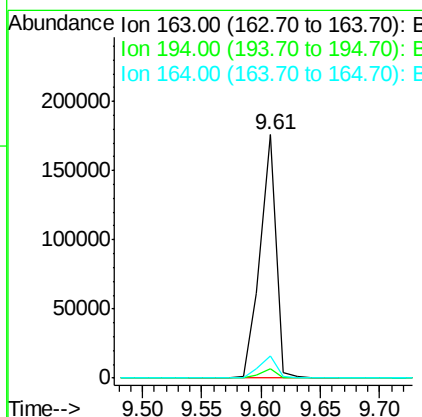
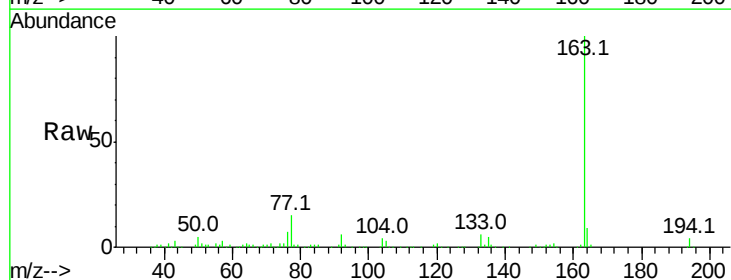
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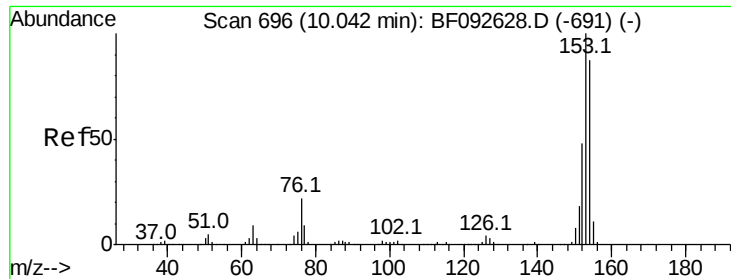
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#49
Dimethylphthalate
Concen: 10.48 ng
RT: 9.61 min Scan# 658
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.4
164	9.0	8.0	12.0





#51

Acenaphthene

Concen: 4.38 ng

RT: 9.92 min Scan# 685

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

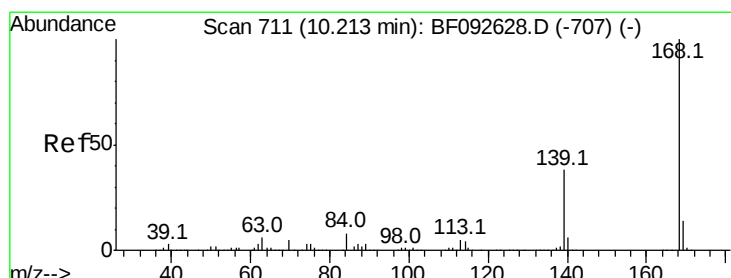
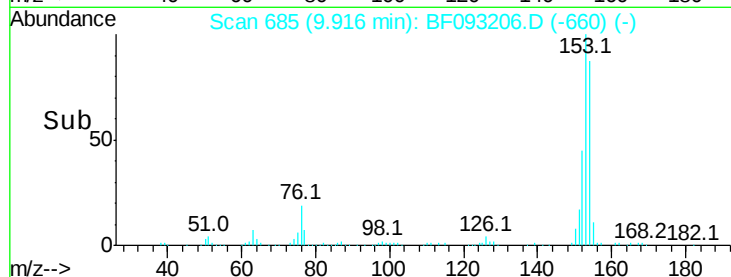
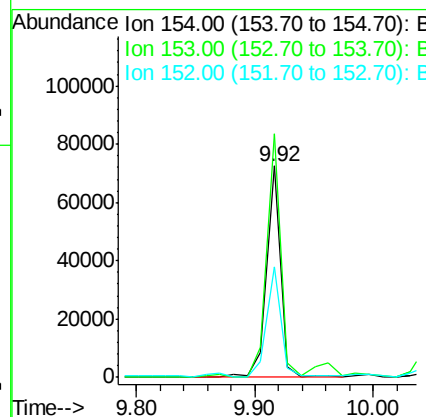
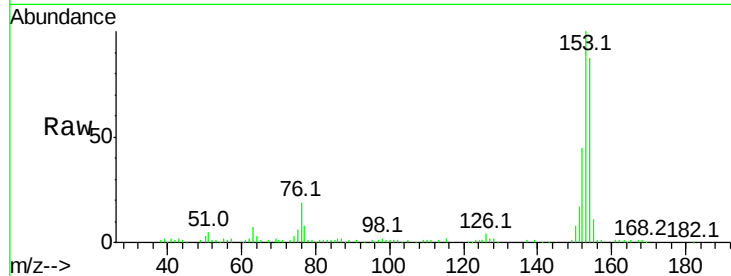
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion:	154	Resp:	60905
Ion Ratio	Lower	Upper	
154	100		
153	115.2	88.6	133.0
152	52.0	41.6	62.4

Manual Integrations
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#54

Dibenzofuran

Concen: 3.42 ng

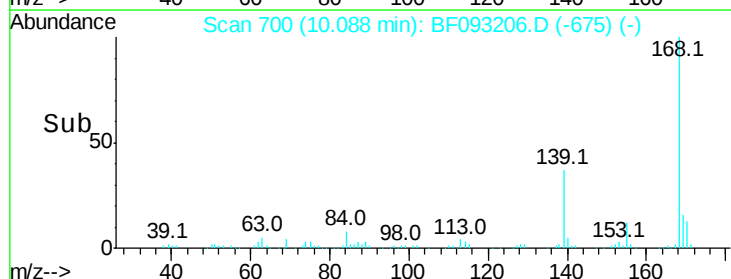
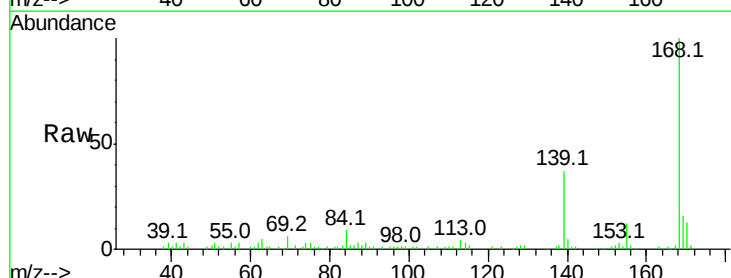
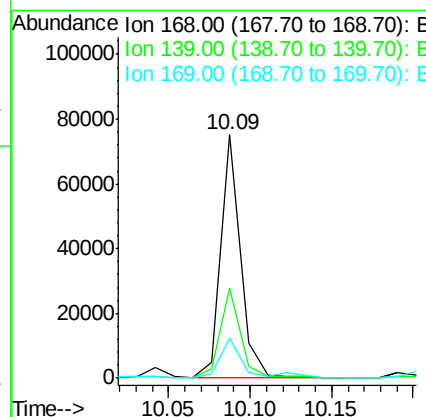
RT: 10.09 min Scan# 700

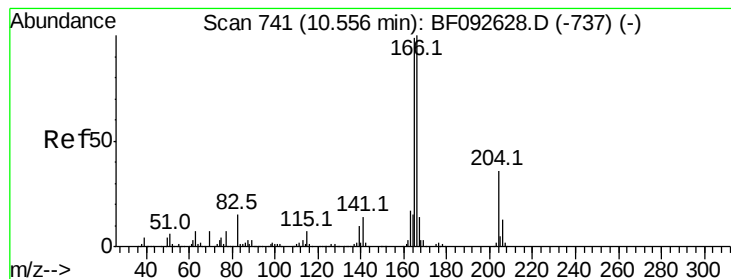
Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion:	168	Resp:	63610
Ion Ratio	Lower	Upper	
168	100		
139	37.0	32.6	49.0
169	16.3	11.3	16.9





#57

Fluorene

Concen: 4.84 ng

RT: 10.43 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

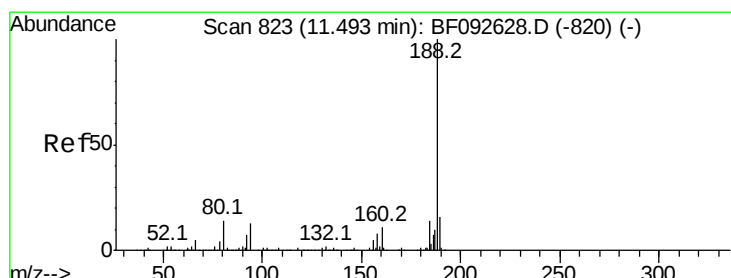
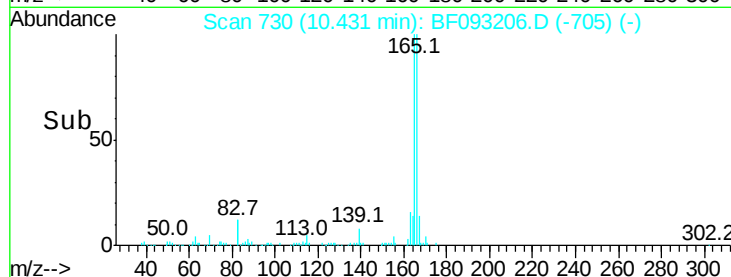
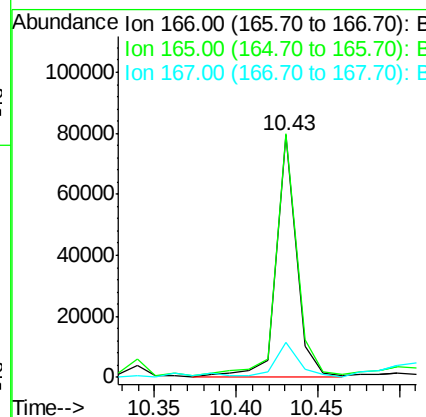
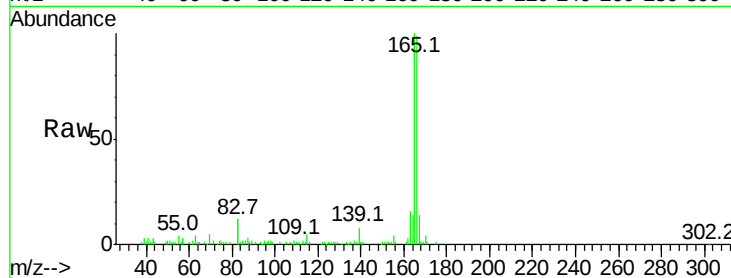
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.7	77.8	116.8
167	14.5	10.8	16.2

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#63

Phenanthrene-d10

Concen: 20.00 ng

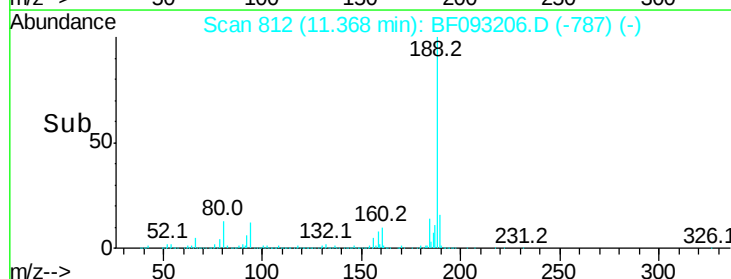
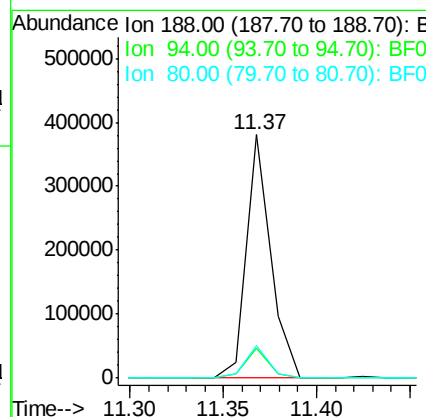
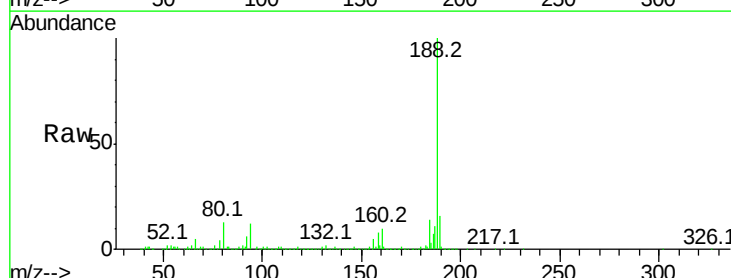
RT: 11.37 min Scan# 812

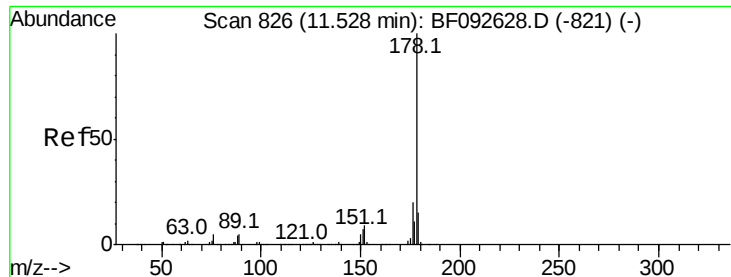
Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.5	10.0	15.0
80	13.4	11.2	16.8





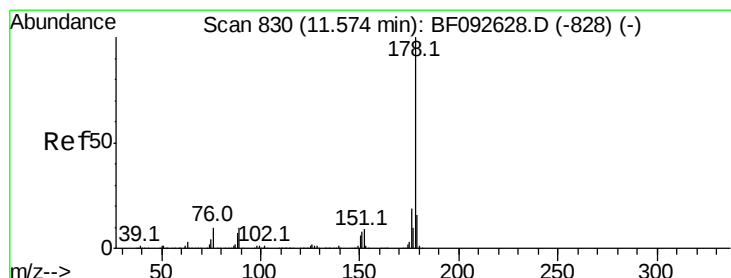
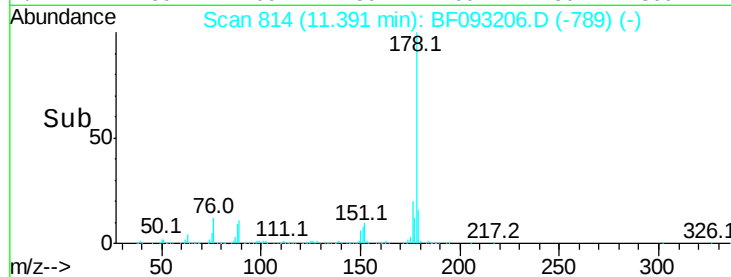
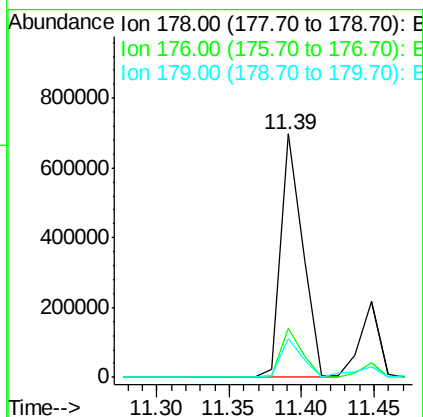
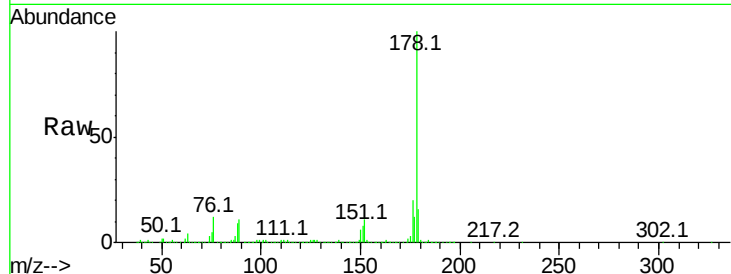
#70
Phenanthrene
Concen: 36.75 ng
RT: 11.39 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.6	25.0
179	15.8	12.8	19.2

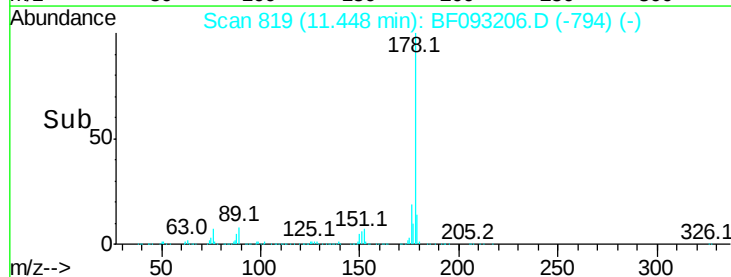
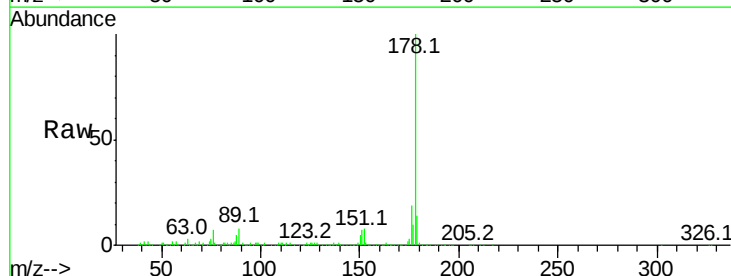
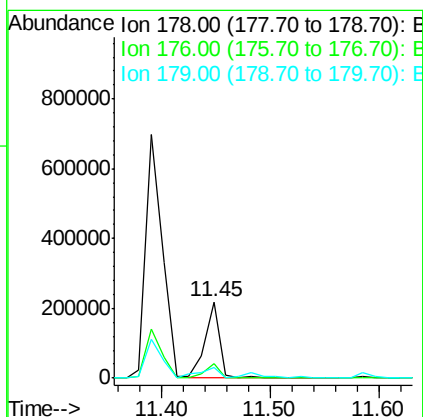
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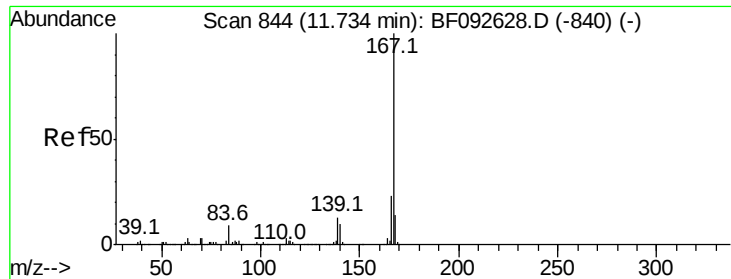
mohammad
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#71
Anthracene
Concen: 10.40 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.9	23.9
179	14.5	13.2	19.8





#72

Carbazole

Concen: 3.47 ng

RT: 11.61 min Scan# 833

Delta R.T. 0.00 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

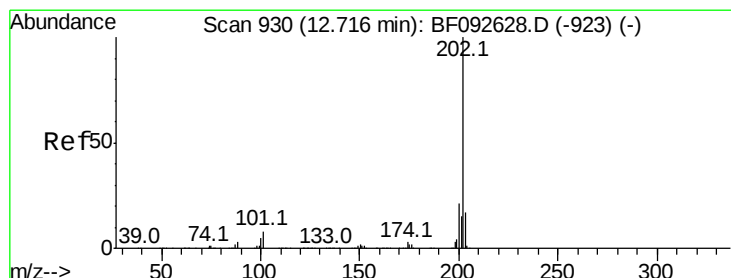
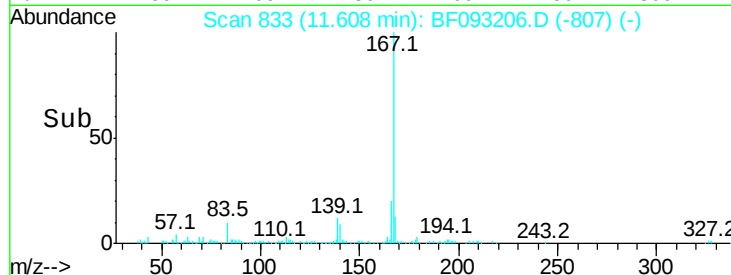
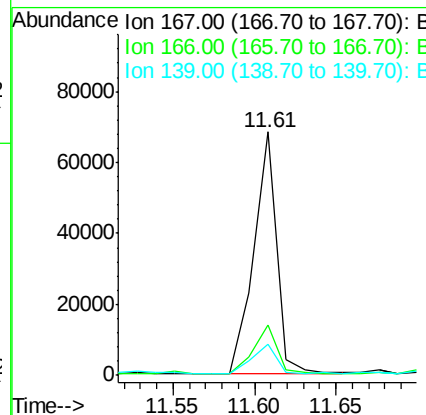
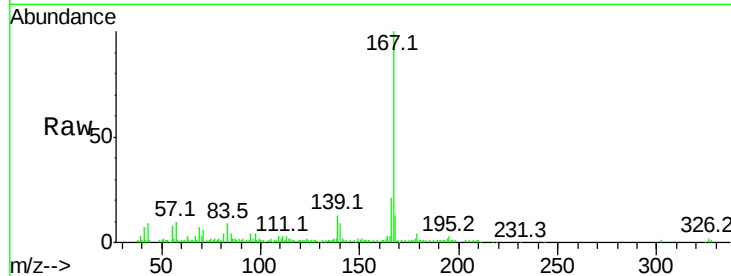
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion:	167	Resp:	66135
Ion Ratio	Lower	Upper	
167	100		
166	20.9	18.2	27.2
139	12.7	11.4	17.2

Manual Integrations
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#74

Fluoranthene

Concen: 40.35 ng

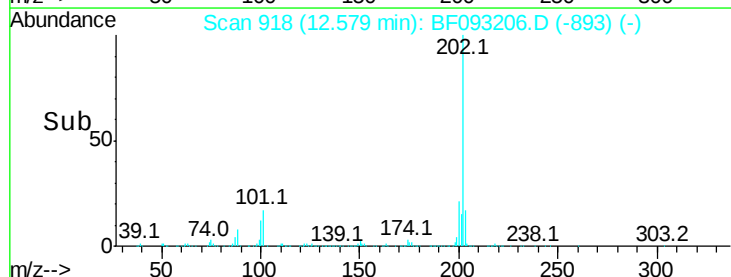
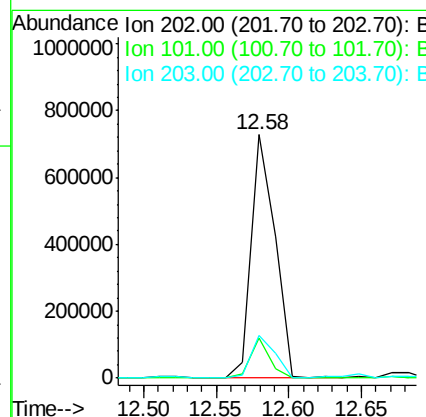
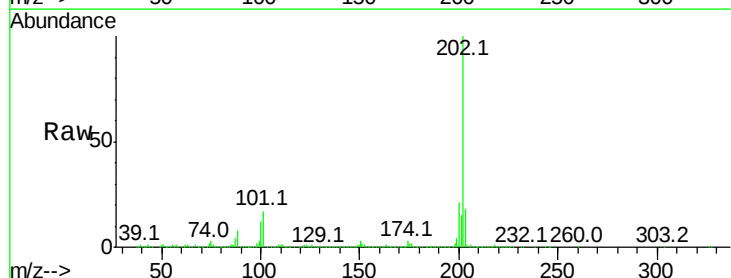
RT: 12.58 min Scan# 918

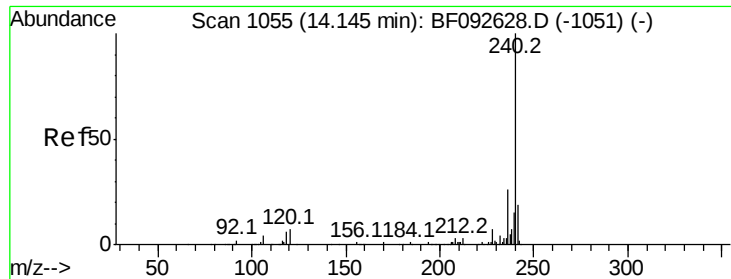
Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion:	202	Resp:	825549
Ion Ratio	Lower	Upper	
202	100		
101	16.6	0.0	34.6
203	17.5	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

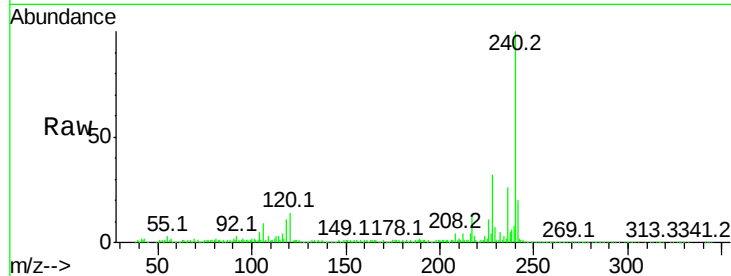
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion:	240	Resp:	321202
Ion Ratio	Lower	Upper	
240	100		
120	13.5	12.9	19.3
236	25.6	20.9	31.3

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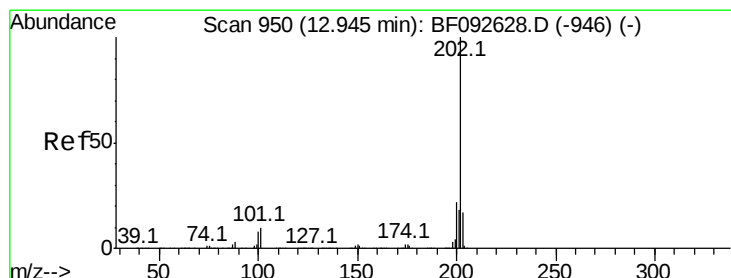
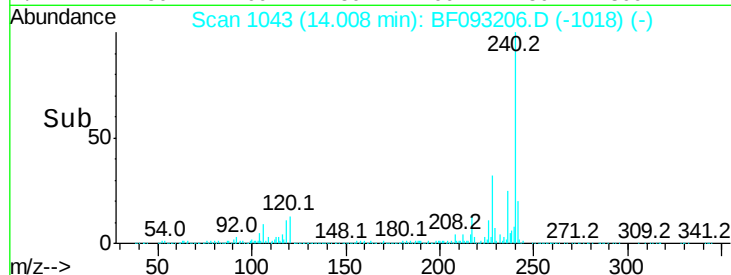
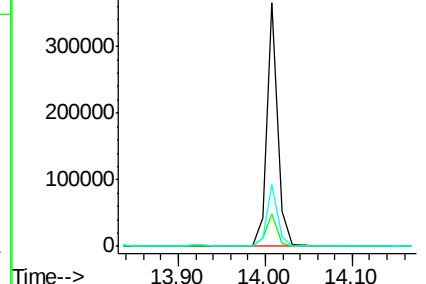
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 31.98 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF093206.D

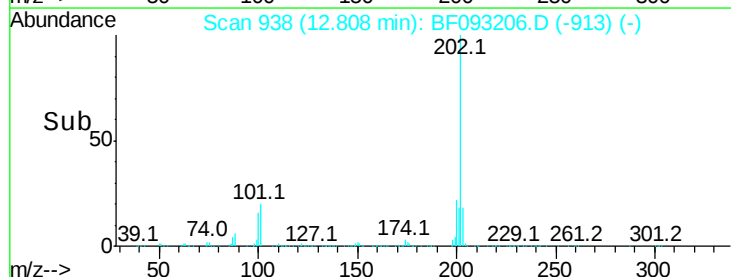
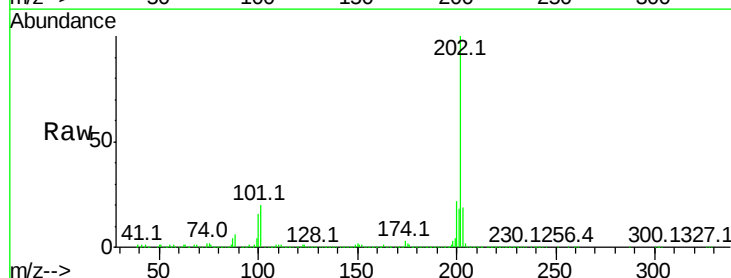
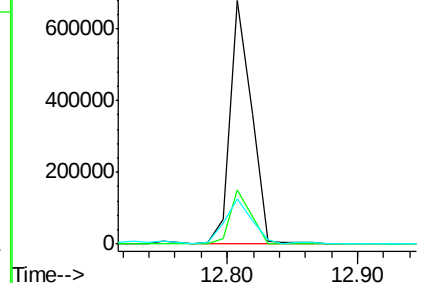
Acq: 27 Feb 2017 13:58

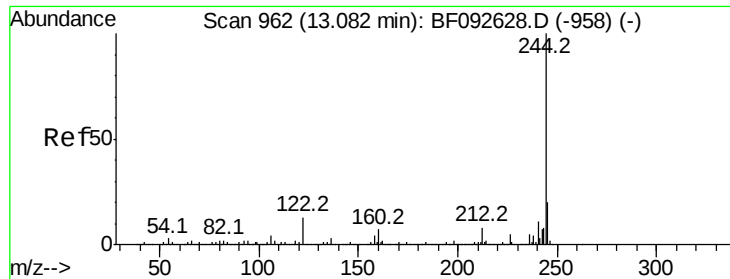
Tgt Ion:	202	Resp:	768609
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.7	26.5
203	18.7	14.7	22.1

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: 47.93 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

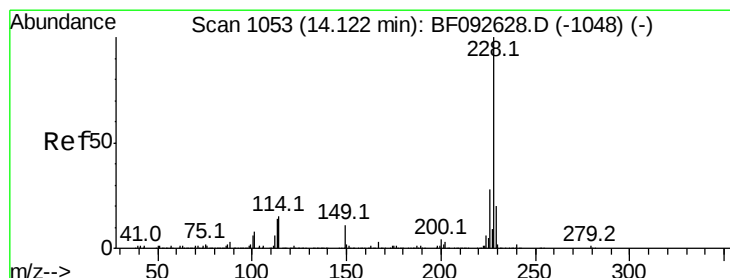
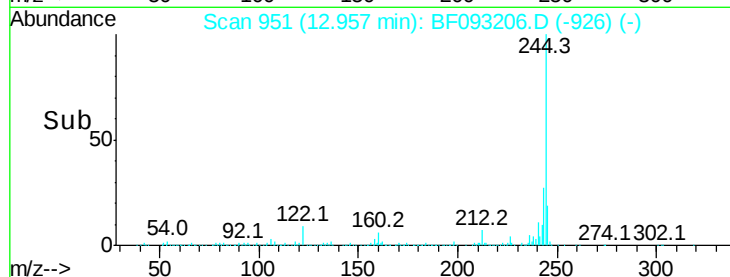
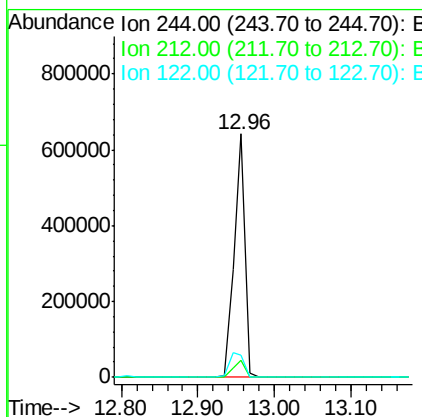
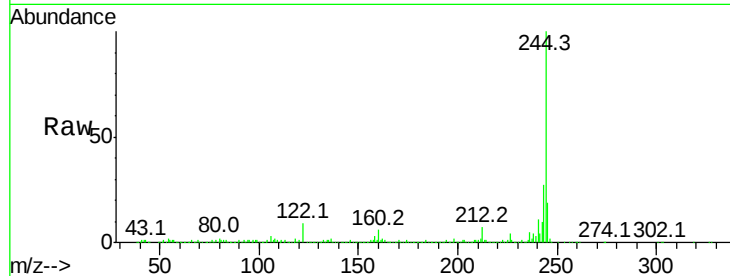
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.9	6.2	9.2	
122	9.3	11.4	17.2	

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#80

Benzo(a)anthracene

Concen: 23.92 ng

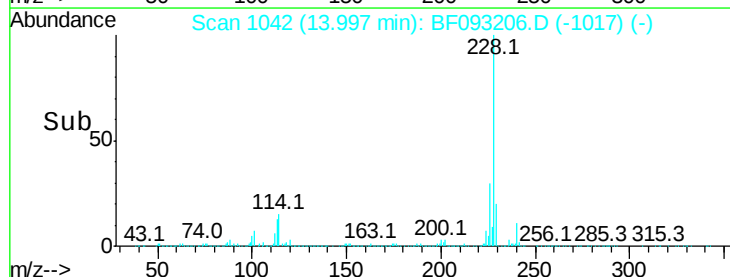
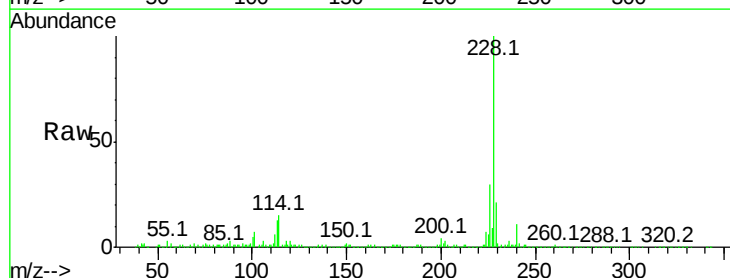
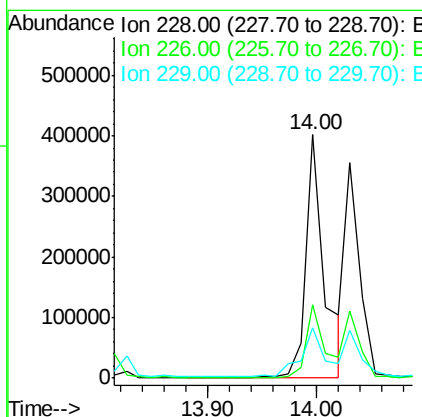
RT: 14.00 min Scan# 1042

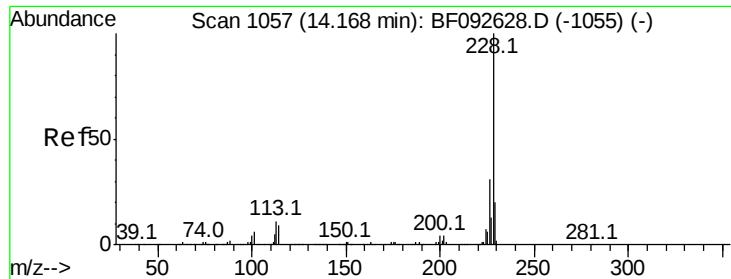
Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	29.9	22.4	33.6	
229	20.8	16.2	24.4	





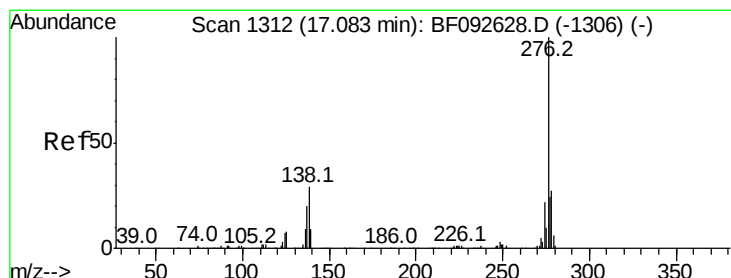
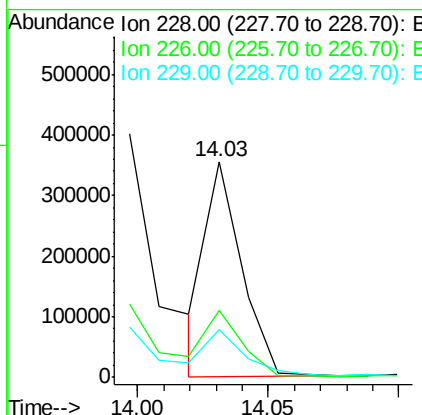
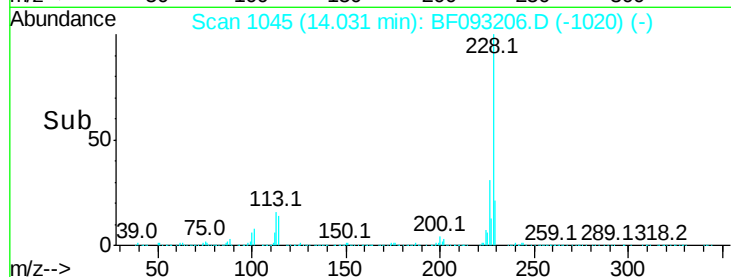
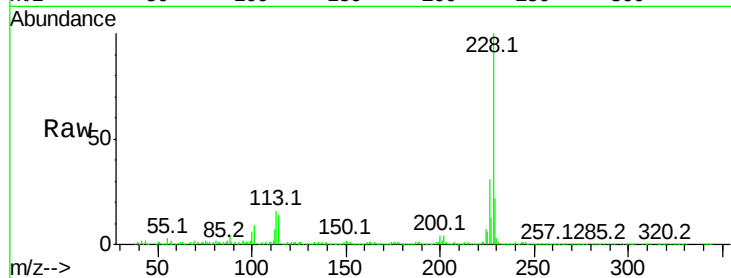
#82
Chrysene
Concen: 18.35 ng
RT: 14.03 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Tot Ion:	228	Resp:	337537
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.4	38.0
229	21.9	16.2	24.2

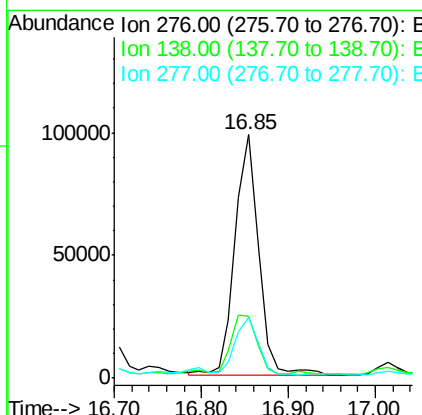
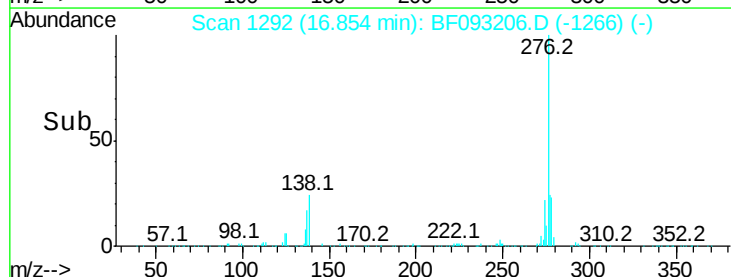
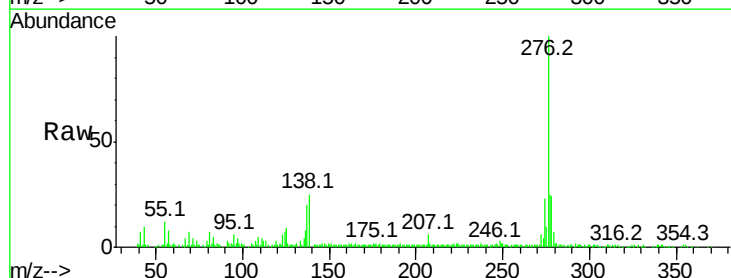
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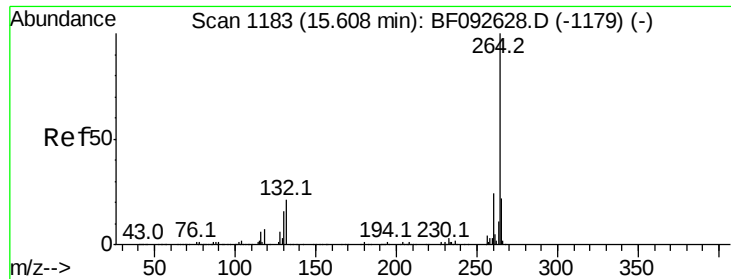
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.11 ng
RT: 16.85 min Scan# 1292
Delta R.T. 0.00 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion:	276	Resp:	186749
Ion Ratio	Lower	Upper	
276	100		
138	27.9	21.8	32.6
277	22.5	20.2	30.4





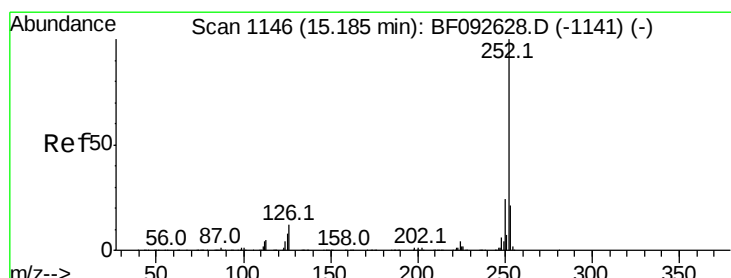
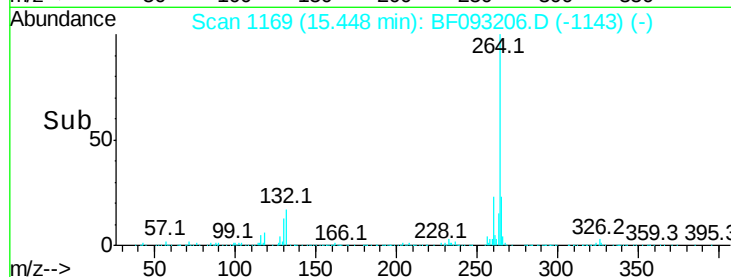
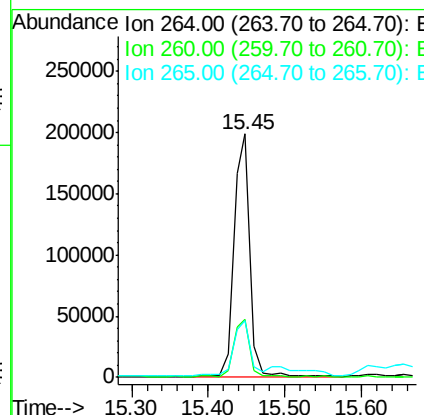
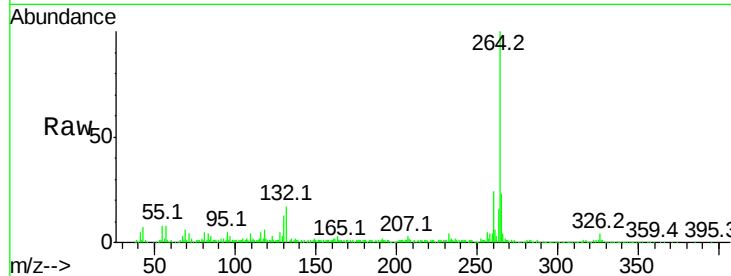
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.9	19.2	28.8	
265	23.1	17.4	26.0	

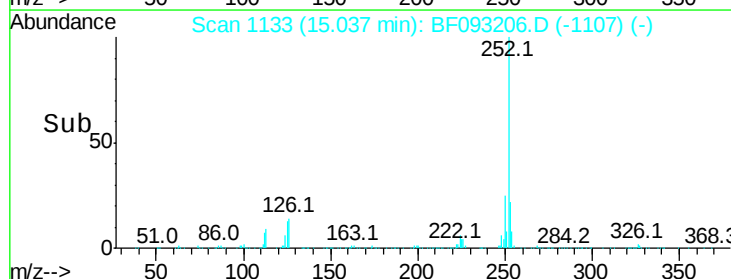
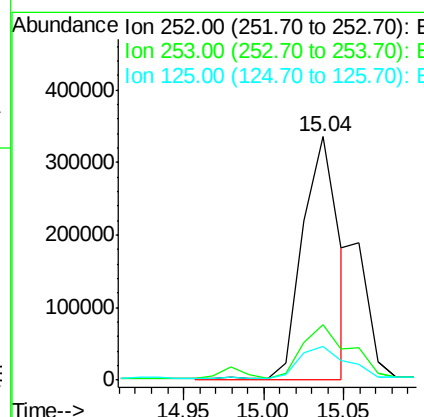
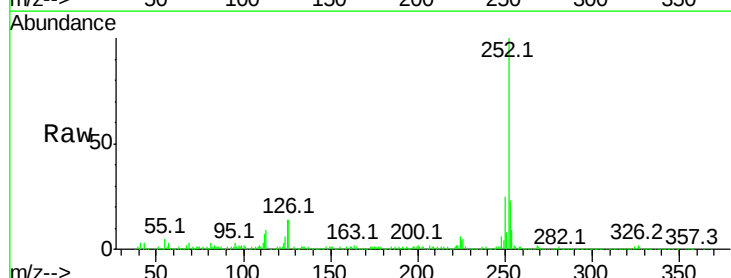
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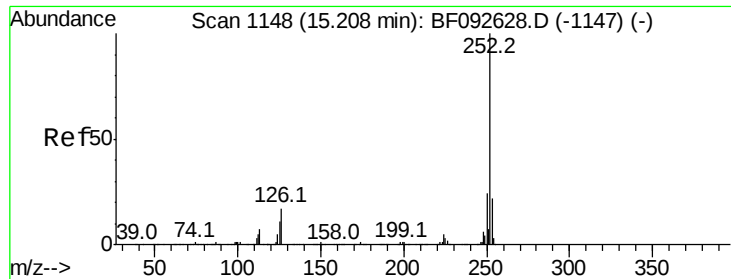
mohammad
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#87
Benzo(b)fluoranthene
Concen: 27.57 ng m
RT: 15.04 min Scan# 1133
Delta R.T. 0.00 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.6	18.2	27.4	
125	14.0	9.8	14.6	





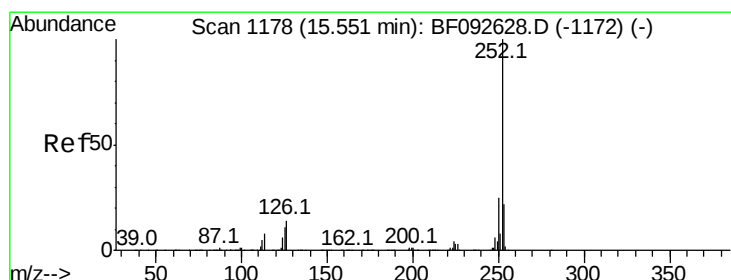
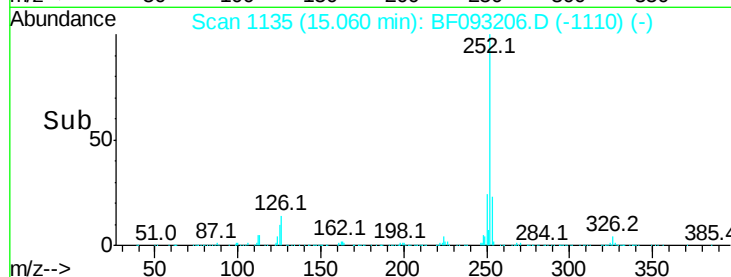
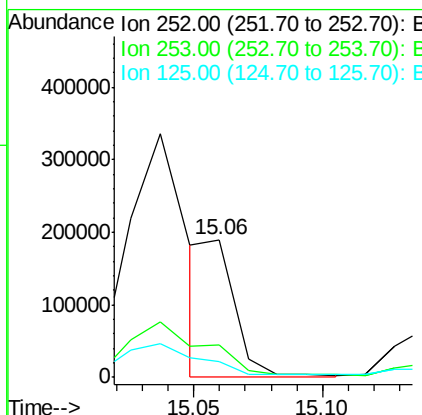
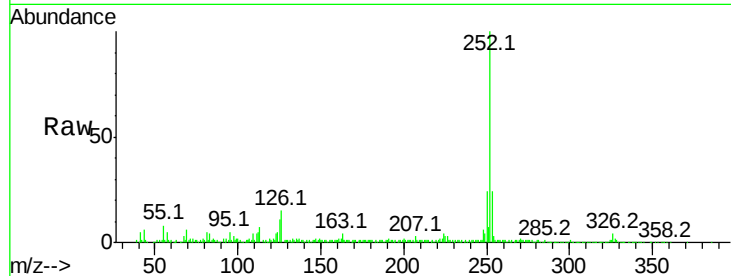
#88
Benzo(k)fluoranthene
Concen: 9.34 ng m
RT: 15.06 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Instrument :
BNA_F
ClientSampleId :
E2-B1-B2-SOUTHSW-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.5	27.7
125	11.3	8.9	13.3

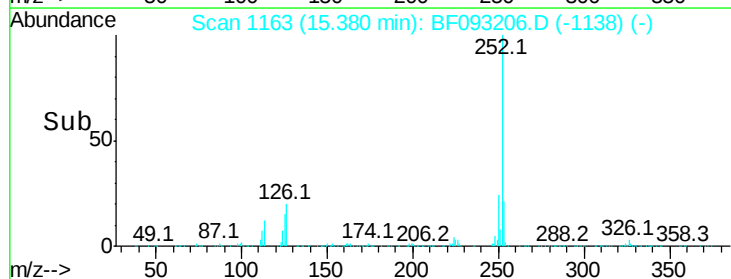
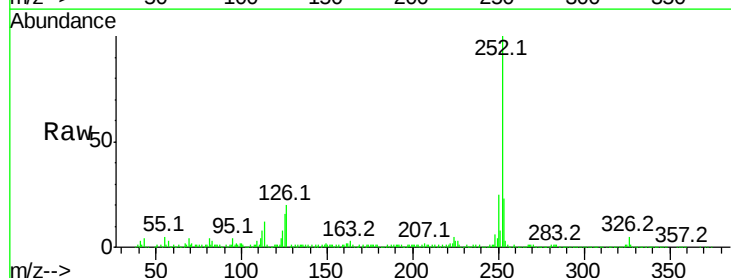
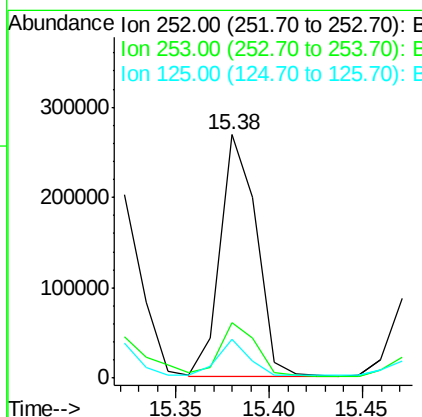
Manual Integrations
APPROVED

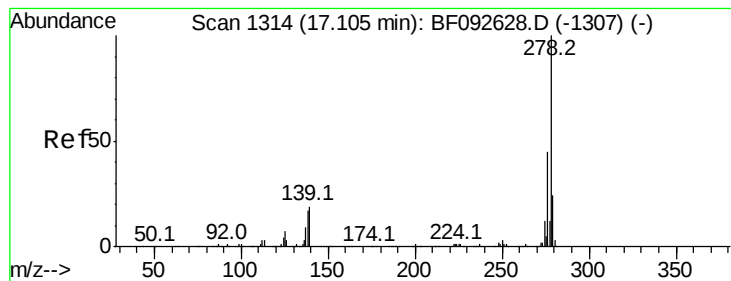
mohammad
2/28/2017 2:29:11 PM



#89
Benzo(a)pyrene
Concen: 21.99 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF093206.D
Acq: 27 Feb 2017 13:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	16.2	10.0	15.0#





#90

Dibenzo(a,h)anthracene

Concen: 3.86 ng

RT: 16.85 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Instrument :

BNA_F

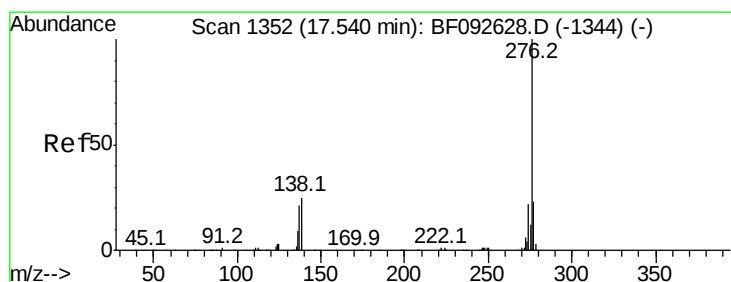
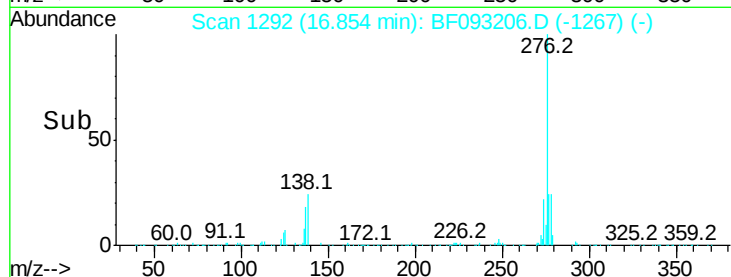
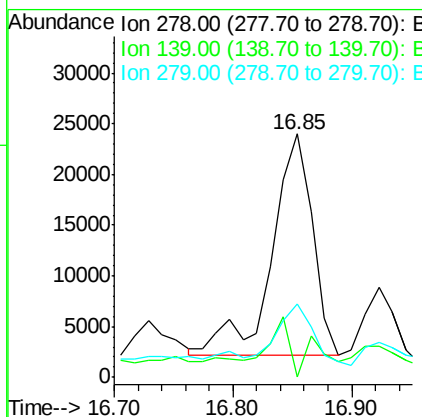
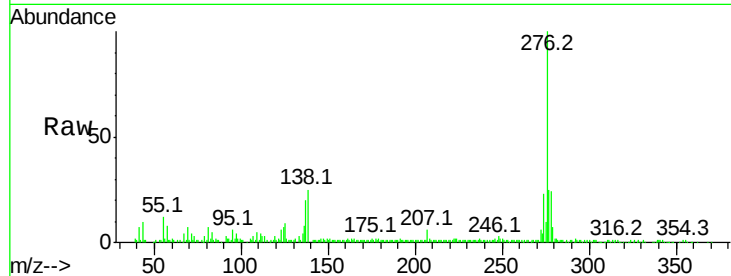
ClientSampleId :

E2-B1-B2-SOUTHSW-1

Tot Ion:	278	Resp:	51724
Ion Ratio	Lower	Upper	
278	100		
139	0.0	14.8	22.2#
279	30.2	19.8	29.6#

Manual Integrations
APPROVED

mohammad
2/28/2017 2:29:11 PM



#91

Benzo(g,h,i)perylene

Concen: 12.77 ng

RT: 17.28 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF093206.D

Acq: 27 Feb 2017 13:58

Tgt Ion:	276	Resp:	172717
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.2	28.8
138	30.6	16.0	24.0#

