

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
 Data File : BF093182.D
 Acq On : 25 Feb 2017 10:16
 Operator : SJ/MA
 Sample : I1972-06
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3

Manual Integrations
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 2/27/2017 1:08:31 PM

Quant Time: Feb 27 10:20:42 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	154570	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	591023	20.00	ng	-0.02
38) Acenaphthene-d10	9.87	164	231015	20.00	ng	-0.02
63) Phenanthrene-d10	11.37	188	351135	20.00	ng	-0.01
75) Chrysene-d12	14.02	240	265666	20.00	ng	0.00
86) Perylene-d12	15.45	264	280662	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.44	112	1338492	148.56	ng	-0.01
7) Phenol-d6	6.48	99	1628122	140.45	ng	-0.01
23) Nitrobenzene-d5	7.40	82	954289	89.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	213247	127.63	ng	-0.01
44) 2-Fluorobiphenyl	9.20	172	1348820	105.78	ng	-0.02
78) Terphenyl-d14	12.96	244	873289	77.24	ng	-0.01

Target Compounds

						Qvalue
10) Phenol	6.49	94	70571	5.20	ng	87
31) Naphthalene	8.14	128	213050	7.11	ng	97
37) 2-Methylnaphthalene	8.83	142	82360	4.28	ng	97
45) 1,1'-Biphenyl	9.30	154	35592	2.13	ng	97
48) Acenaphthylene	9.73	152	111088	4.91	ng	96
49) Dimethylphthalate	9.60	163	177937	11.44	ng	100
51) Acenaphthene	9.90	154	264919	19.60	ng	96
54) Dibenzofuran	10.08	168	200568	11.09	ng	# 96
57) Fluorene	10.42	166	290224m	20.87	ng	
70) Phenanthrene	11.40	178	2913666	144.83	ng	99
71) Anthracene	11.45	178	803980	39.80	ng	97
72) Carbazole	11.60	167	285610	14.79	ng	99
74) Fluoranthene	12.59	202	2486748	119.84	ng	98
77) Pyrene	12.82	202	2478775	124.68	ng	99
80) Benzo(a)anthracene	14.01	228	1545690	95.13	ng	98
82) Chrysene	14.04	228	1311808m	86.23	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	587605	49.87	ng	98
87) Benzo(b)fluoranthene	15.05	252	1691325m	91.56	ng	
88) Benzo(k)fluoranthene	15.06	252	359076m	22.51	ng	
89) Benzo(a)pyrene	15.39	252	1164348	72.87	ng	# 96
90) Dibenzo(a,h)anthracene	16.87	278	152290m	11.79	ng	
91) Benzo(g,h,i)perylene	17.29	276	558705	42.82	ng	# 91

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

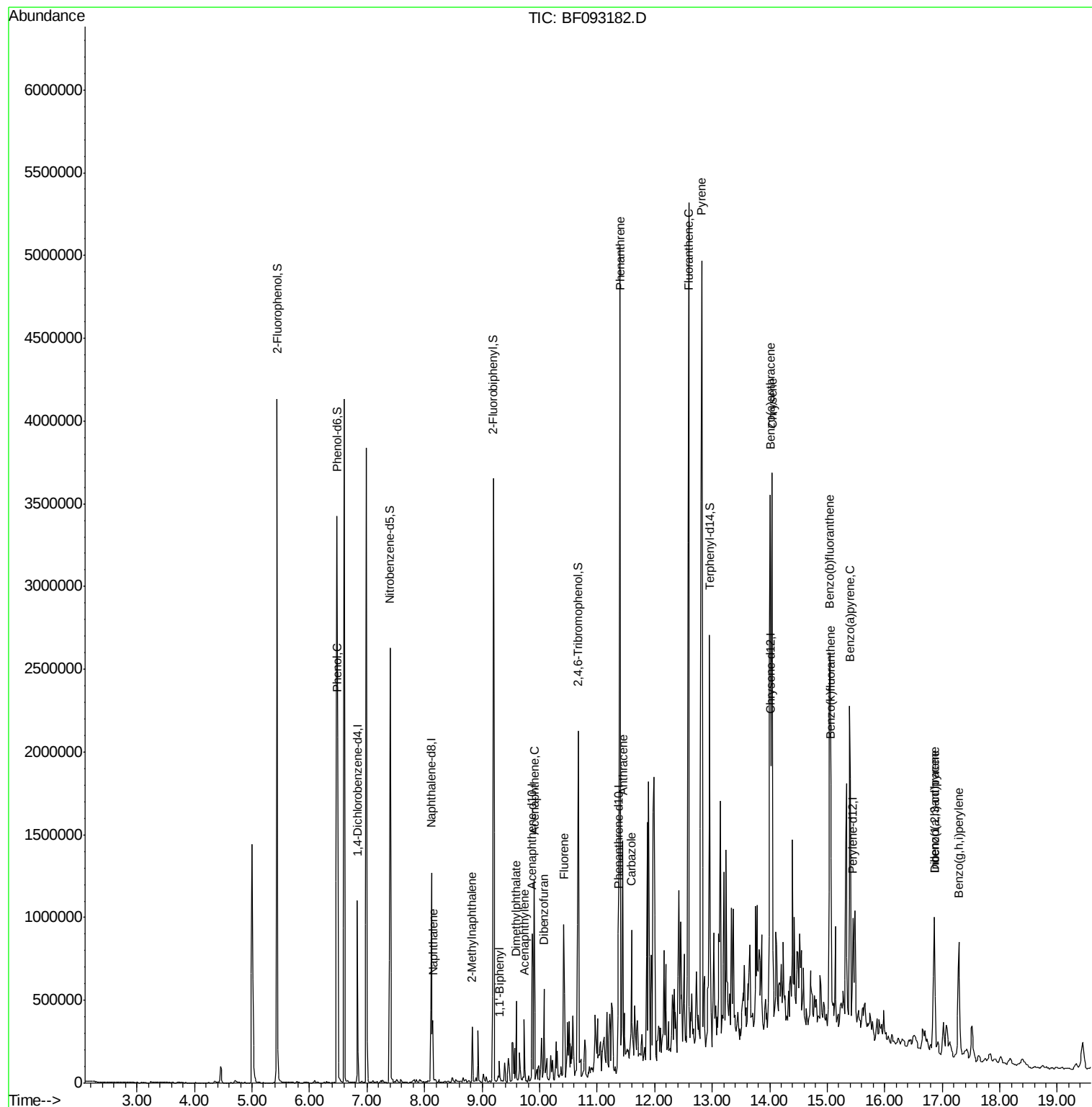
Data Path : Z:\HPCHEM1\BNA F\DATA\BF022417\
Data File : BF093182.D
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Operator : SJ/MA
Sample : I1972-06
Misc :
ALS Vial : 35 Sample Multiplier: 1

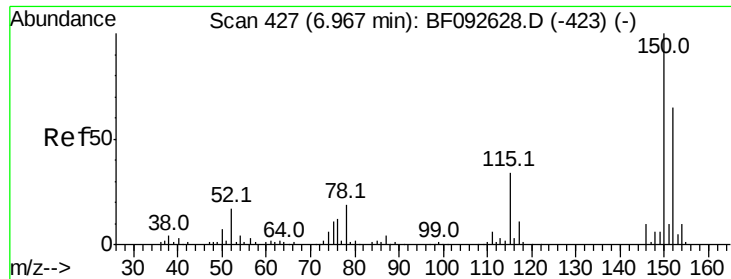
Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

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#1

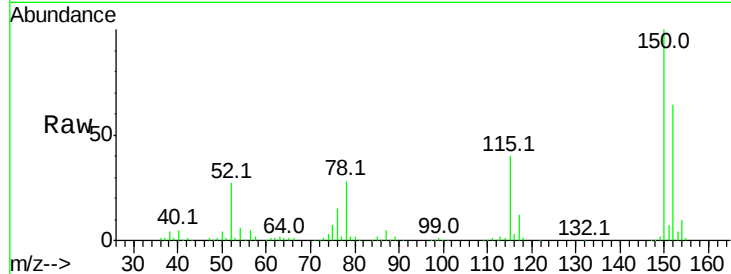
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.02 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.9	187.3
115	63.2	46.0	69.0

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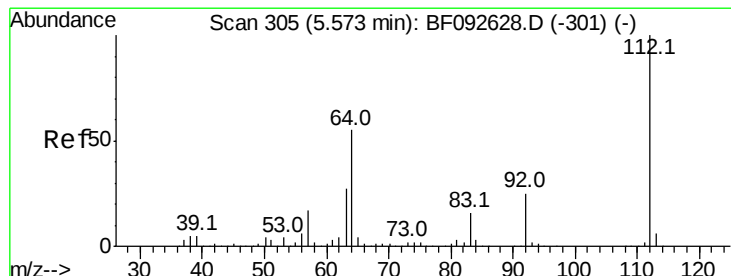
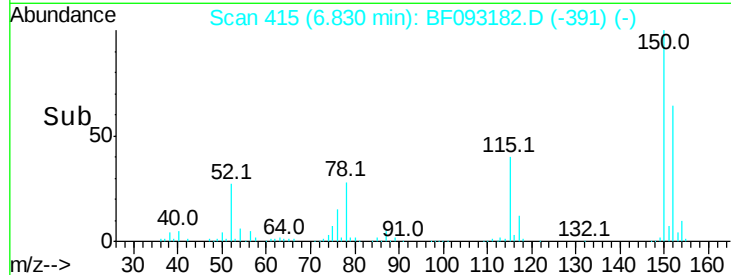
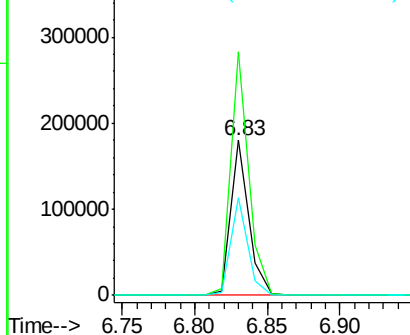


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

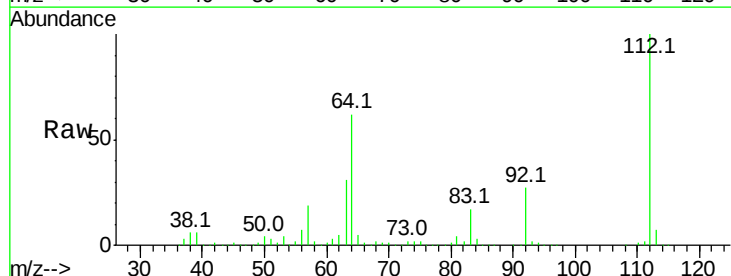
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 148.56 ng
RT: 5.44 min Scan# 293
Delta R.T. -0.01 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	46.1	69.1
63	30.6	23.8	35.6

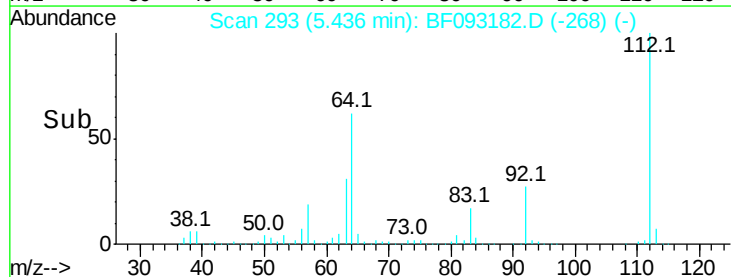
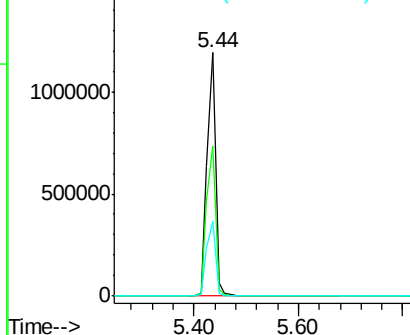


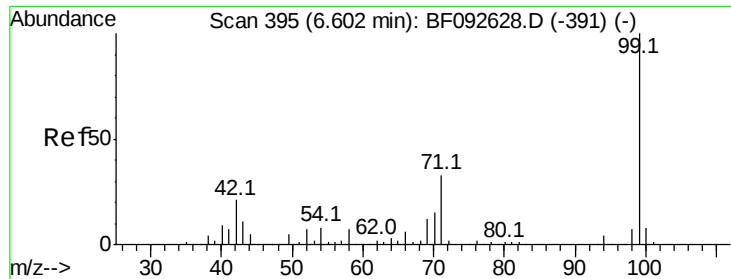
Abundance

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: 140.45 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

ClientSampleId :

E2B21-BASE-3

Tot Ion: 99 Resp: 1628122

Ion Ratio Lower Upper

99 100

42 20.6 15.6 23.4

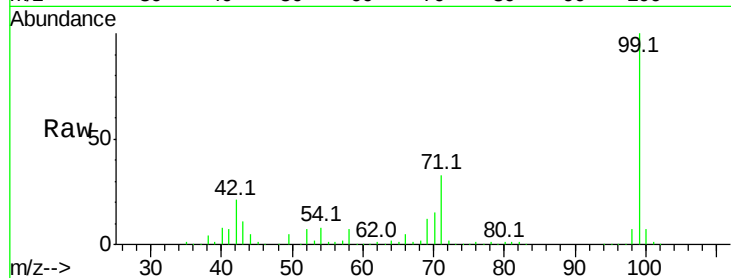
71 33.3 27.5 41.3

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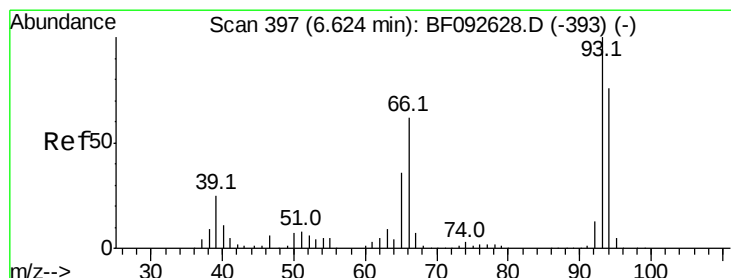
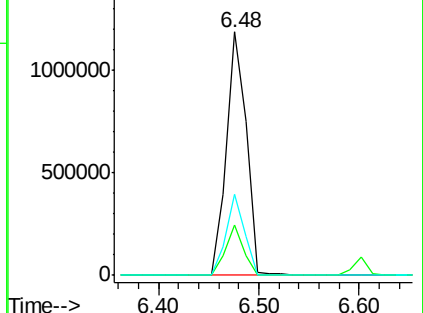
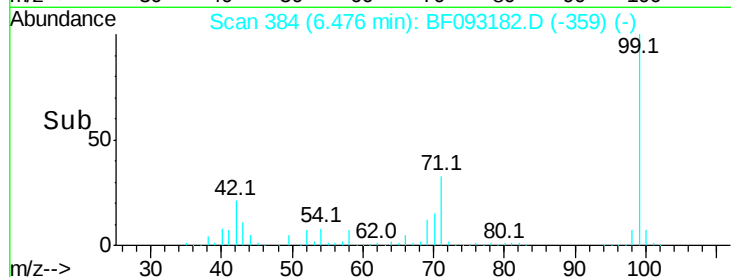
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.20 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

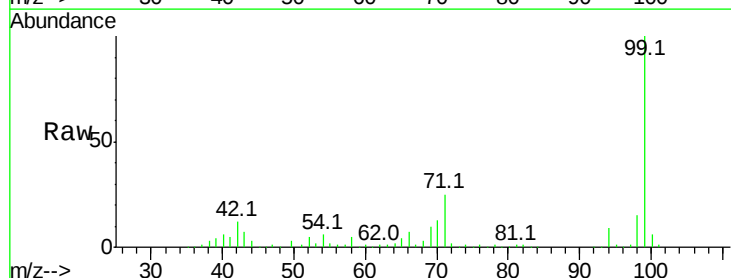
Tgt Ion: 94 Resp: 70571

Ion Ratio Lower Upper

94 100

65 42.7 21.4 61.4

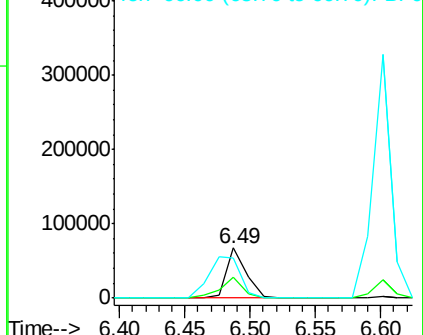
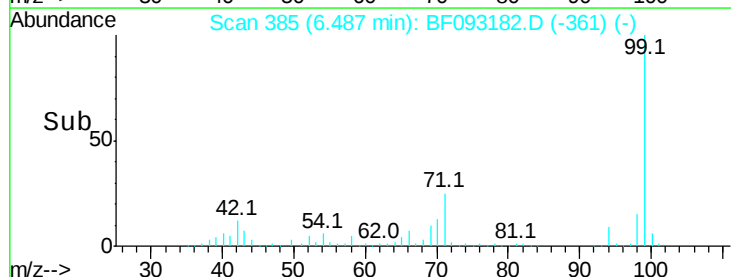
66 80.0 44.0 84.0



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





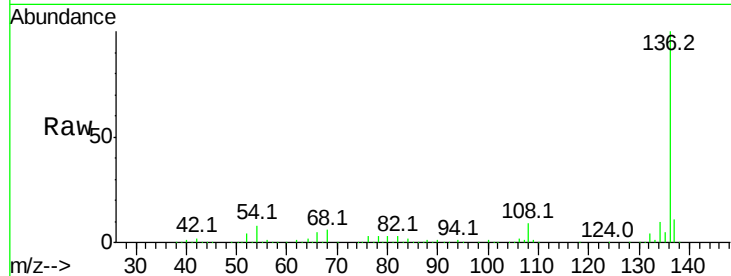
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.02 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

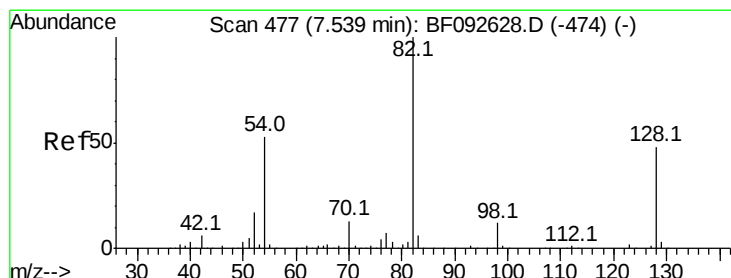
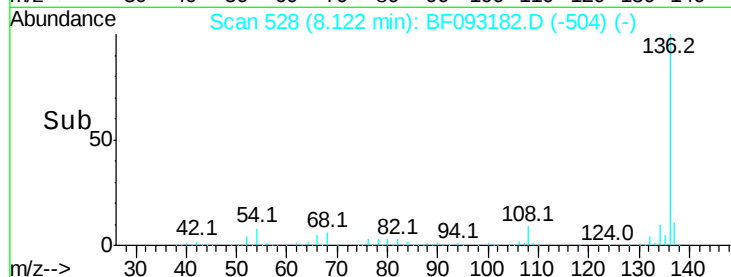
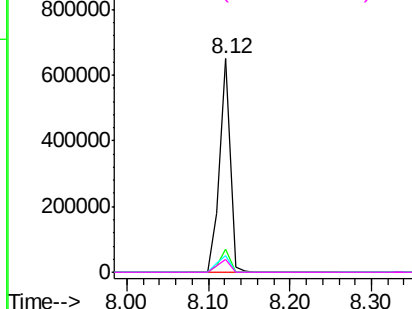
Tot Ion	Ratio	Resp	Lower	Upper
136	100	591023		
137	10.5		8.4	12.6
54	8.0		4.5	6.7#
68	5.8		3.6	5.4#

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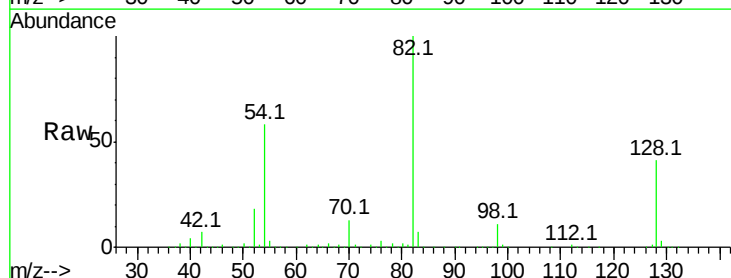


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

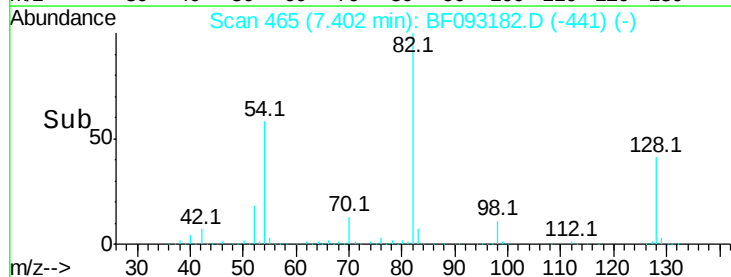
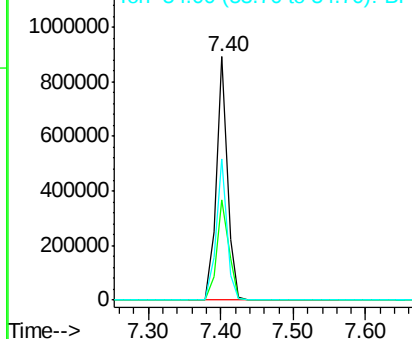


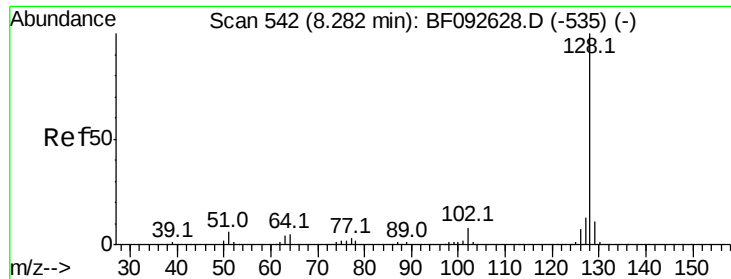
#23
Nitrobenzene-d5
Concen: 89.91 ng
RT: 7.40 min Scan# 465
Delta R.T. -0.02 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	954289		
128	41.0		34.6	52.0
54	58.0		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: 7.11 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.02 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

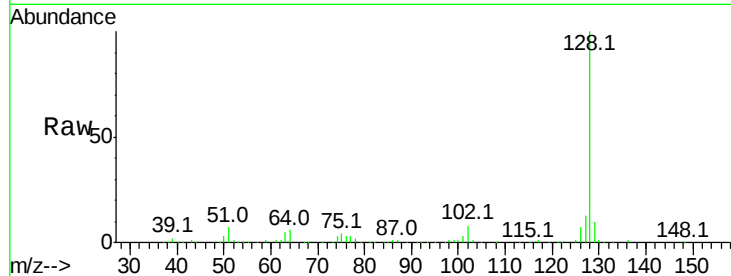
ClientSampleId :

E2B21-BASE-3

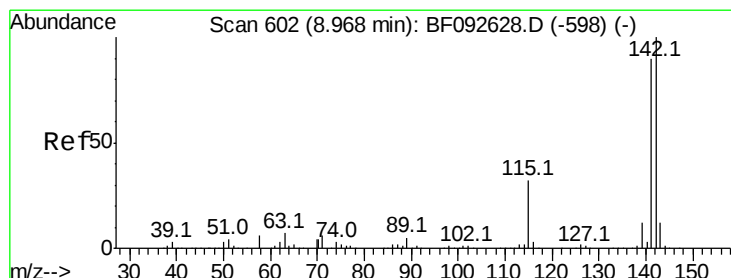
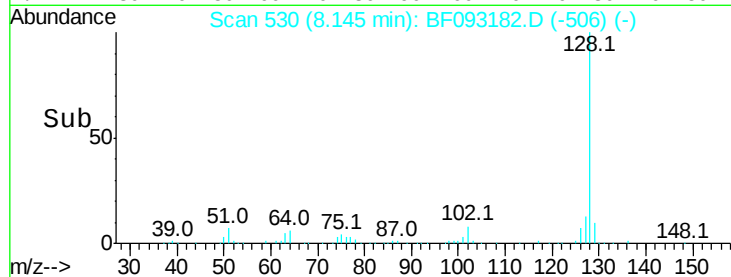
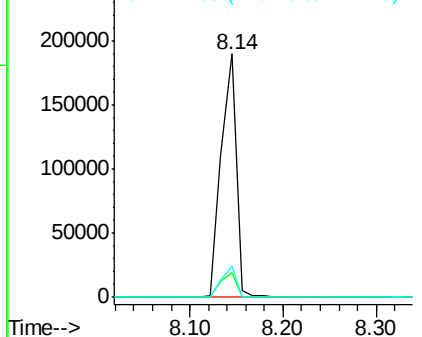
Tot Ion:	128	Resp:	213050
Ion Ratio	Lower	Upper	
128	100		
129	10.3	9.5	14.3
127	12.9	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 4.28 ng

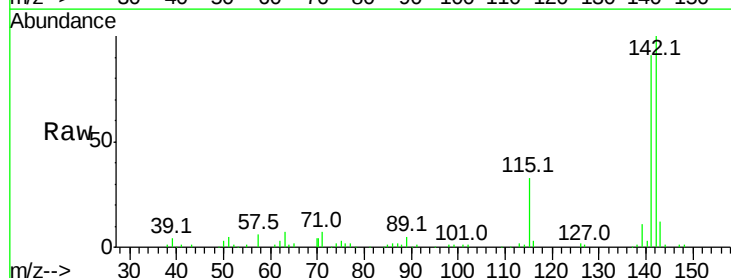
RT: 8.83 min Scan# 590

Delta R.T. -0.02 min

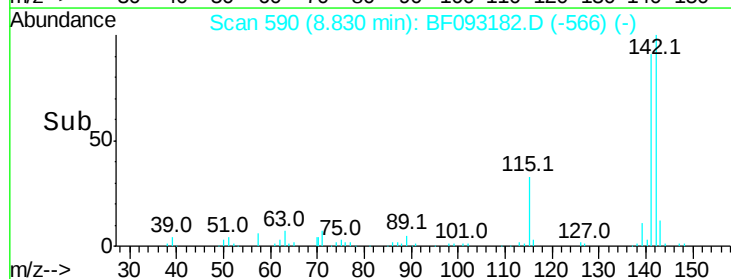
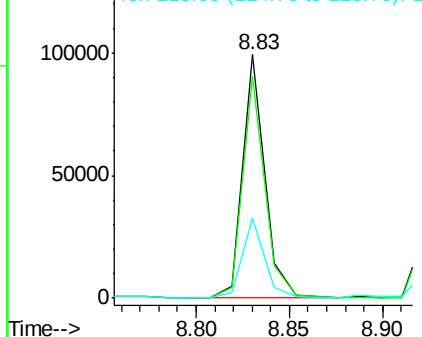
Lab File: BF093182.D

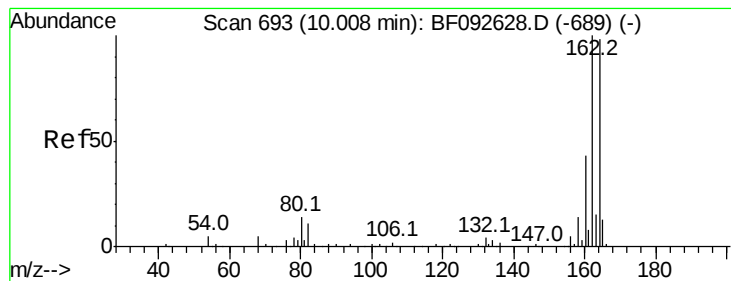
Acq: 25 Feb 2017 10:16

Tgt Ion:	142	Resp:	82360
Ion Ratio	Lower	Upper	
142	100		
141	91.1	71.0	106.6
115	32.5	28.3	42.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

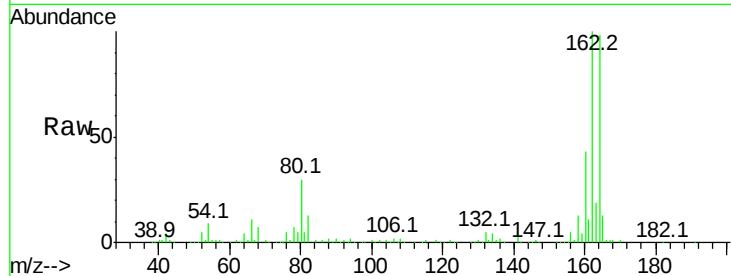
ClientSampled :

E2B21-BASE-3

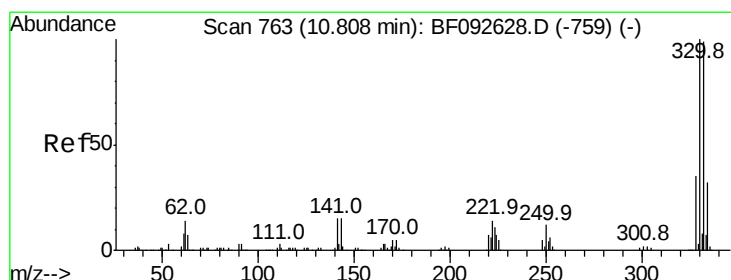
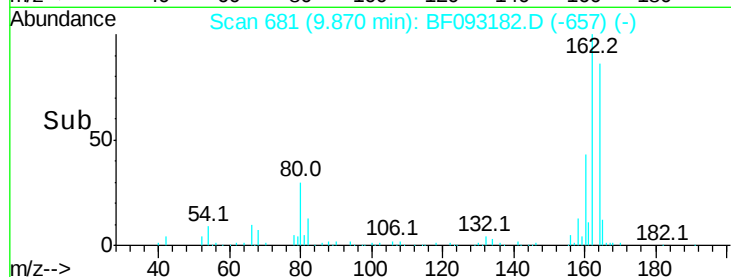
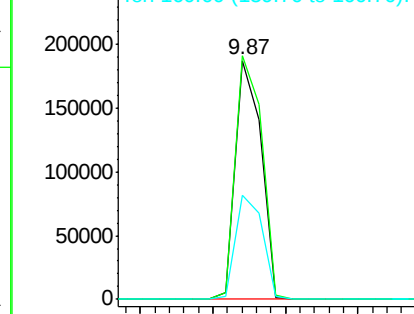
Tot Ion:	164	Resp:	231015
Ion Ratio	Lower	Upper	
164	100		
162	101.9	80.2	120.2
160	43.7	36.9	55.3

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



#41

2,4,6-Tribromophenol

Concen: 127.63 ng

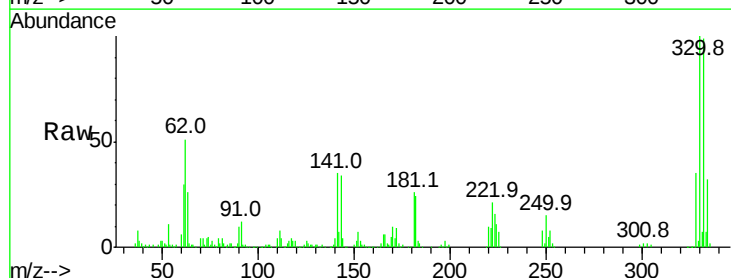
RT: 10.67 min Scan# 751

Delta R.T. -0.01 min

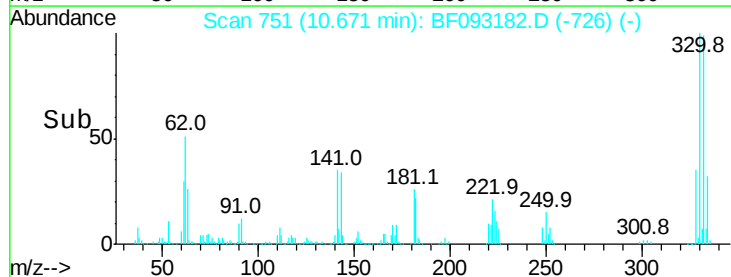
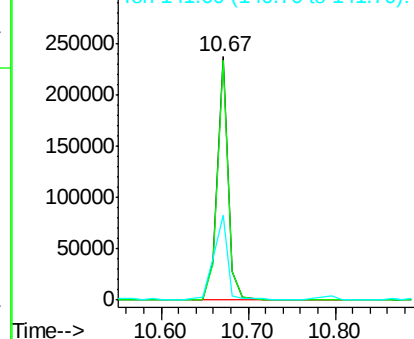
Lab File: BF093182.D

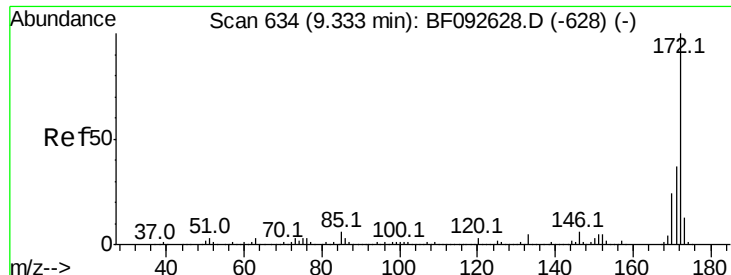
Acq: 25 Feb 2017 10:16

Tgt Ion:	330	Resp:	213247
Ion Ratio	Lower	Upper	
330	100		
332	98.2	77.4	116.2
141	43.1	34.1	51.1



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





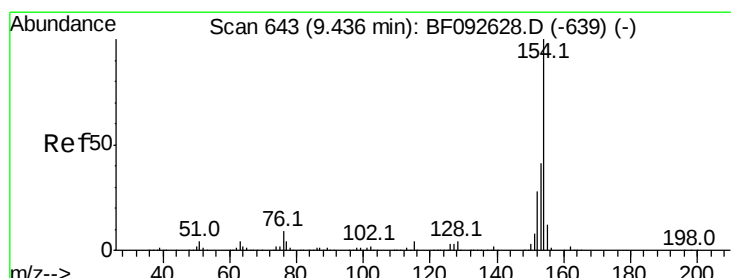
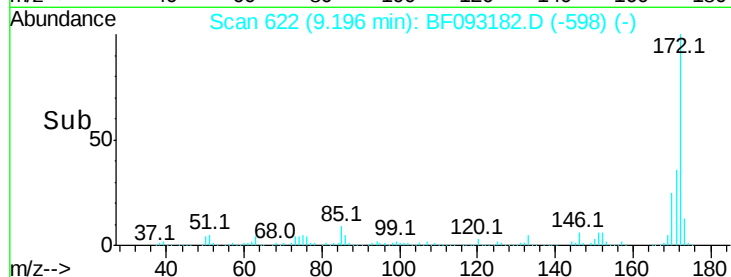
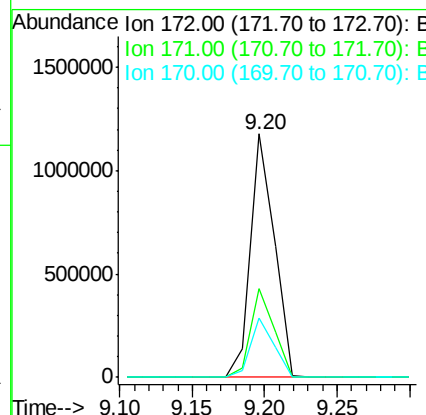
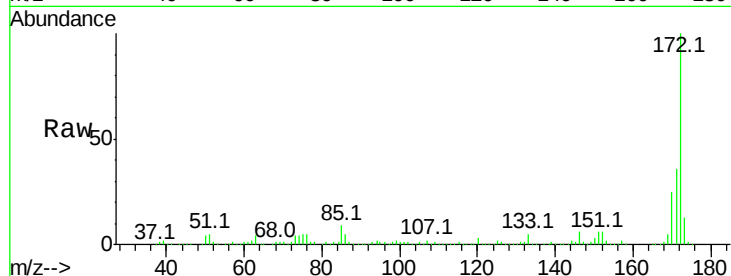
#44
 2-Fluorobiphenyl
 Concen: 105.78 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.02 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.4	44.0
170	24.5	20.2	30.4

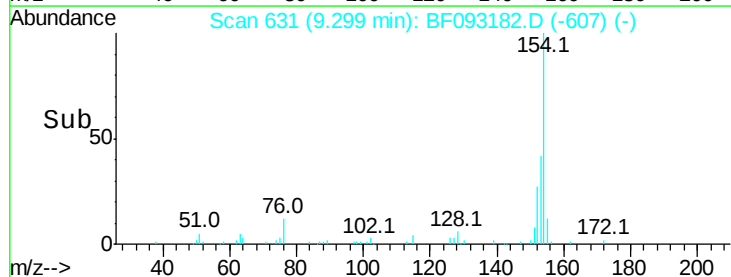
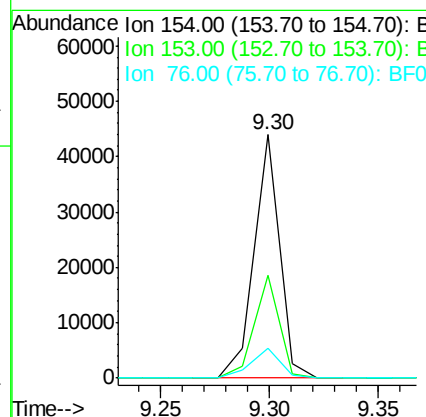
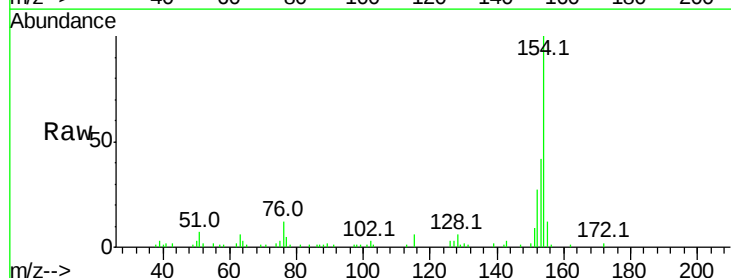
Manual Integrations
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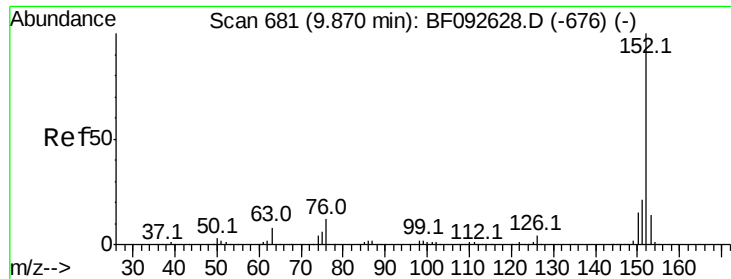
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#45
 1,1'-Biphenyl
 Concen: 2.13 ng
 RT: 9.30 min Scan# 631
 Delta R.T. -0.02 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.3	20.9	60.9
76	12.5	0.0	30.5





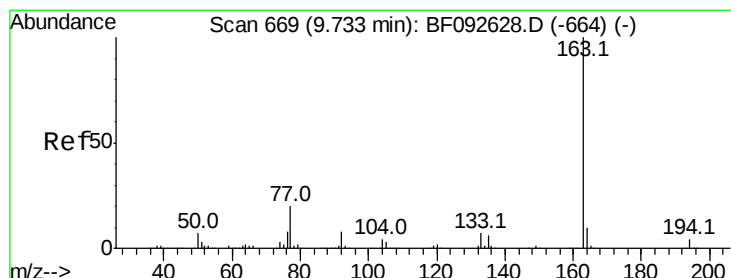
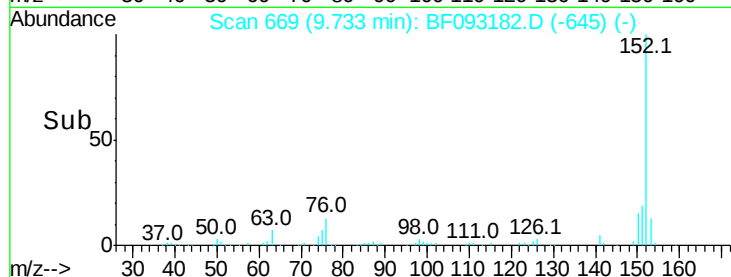
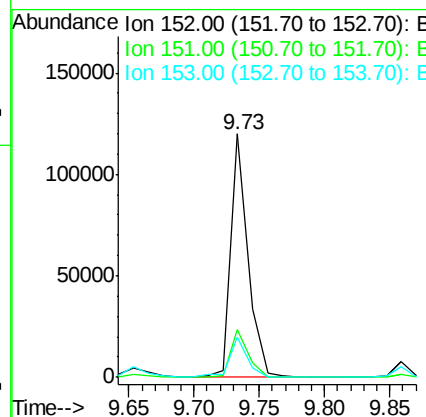
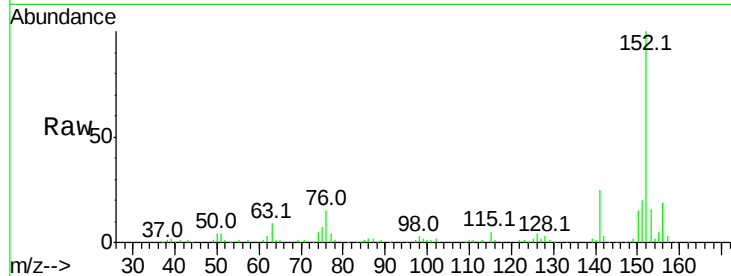
#48
Acenaphthylene
Concen: 4.91 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.02 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
151	19.9	16.9	25.3	
153	16.3	11.4	17.2	

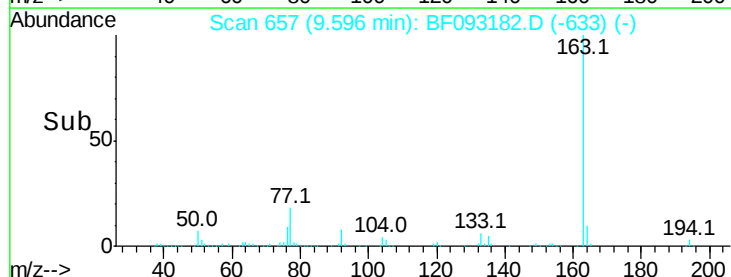
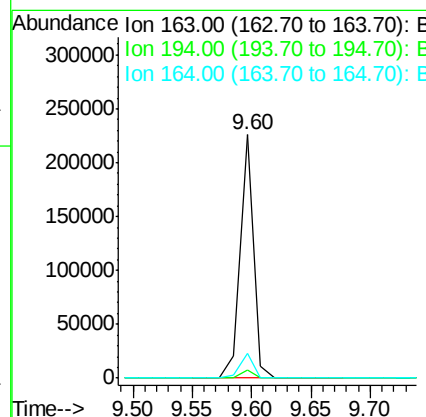
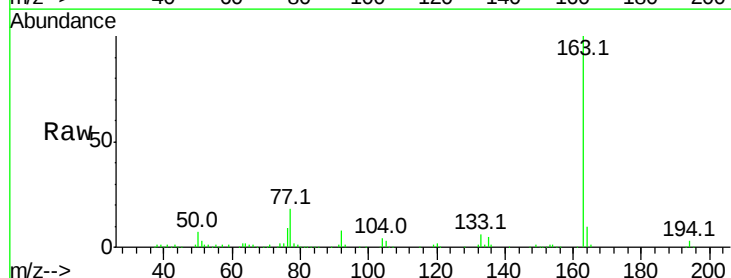
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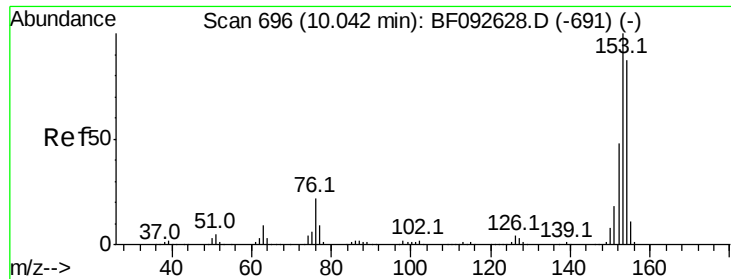
mohammad
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#49
Dimethylphthalate
Concen: 11.44 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.4	3.0	4.4	
164	10.1	8.0	12.0	





#51

Acenaphthene

Concen: 19.60 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

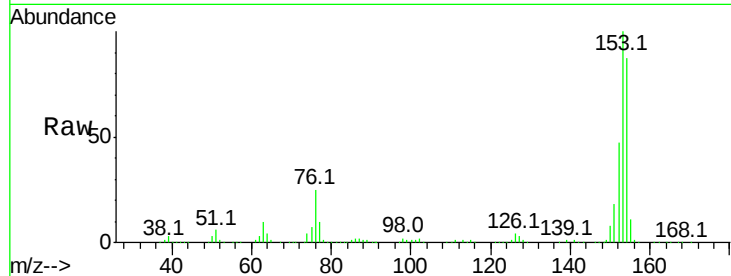
ClientSampleId :

E2B21-BASE-3

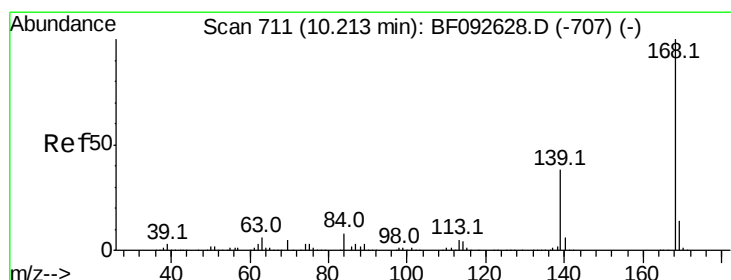
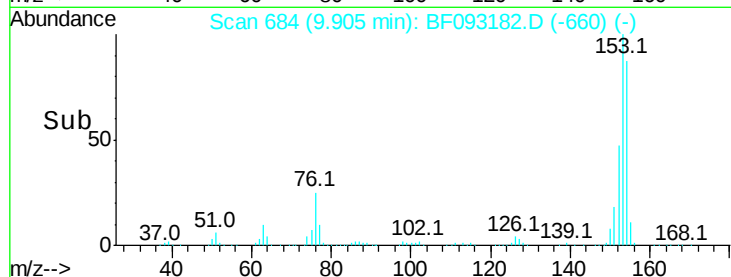
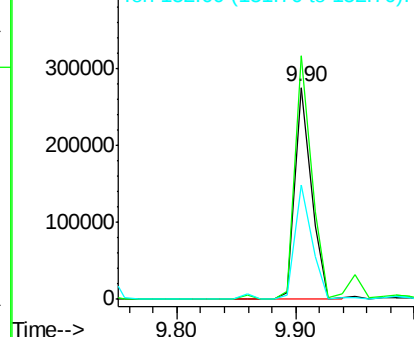
Tot Ion:	154	Resp:	264919
Ion	Ratio	Lower	Upper
154	100		
153	114.9	88.6	133.0
152	54.0	41.6	62.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 11.09 ng

RT: 10.08 min Scan# 699

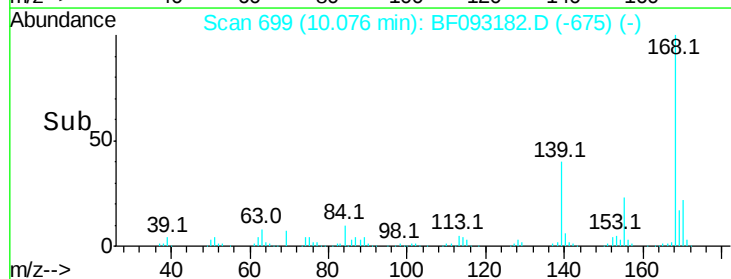
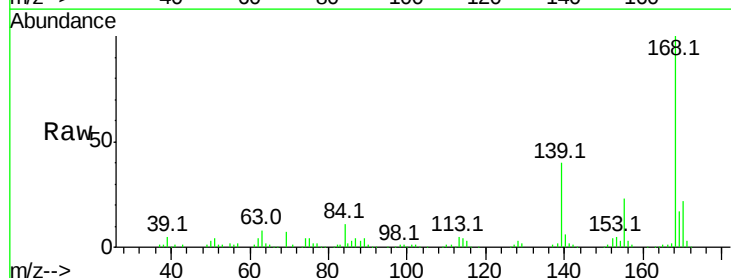
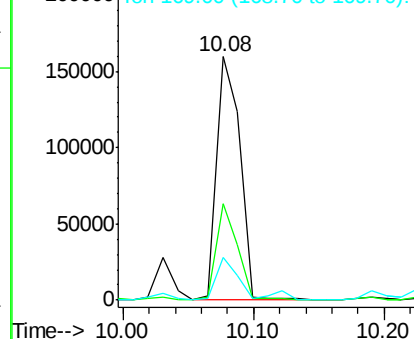
Delta R.T. -0.02 min

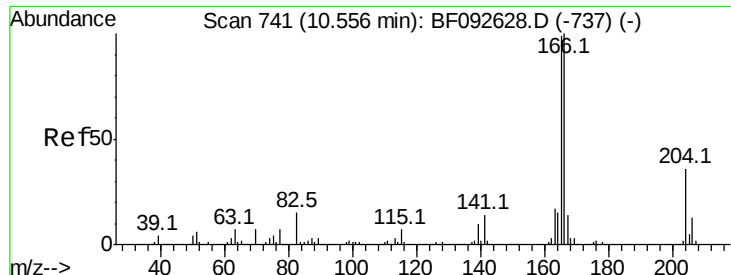
Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Tgt Ion:	168	Resp:	200568
Ion	Ratio	Lower	Upper
168	100		
139	39.6	32.6	49.0
169	17.4	11.3	16.9#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





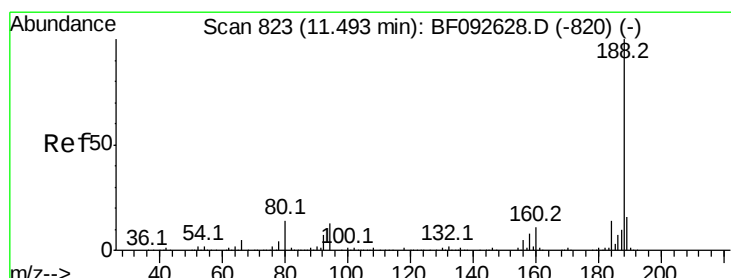
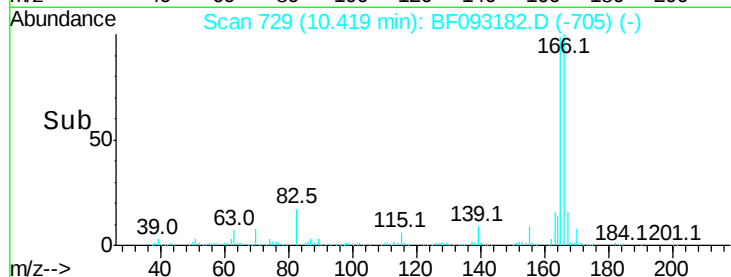
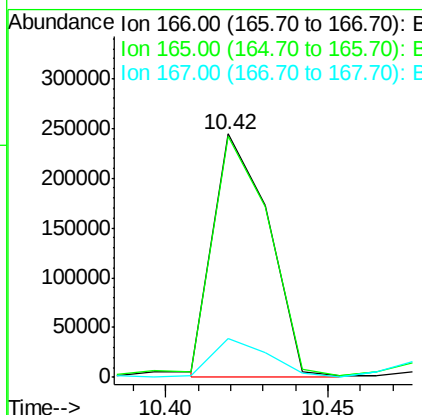
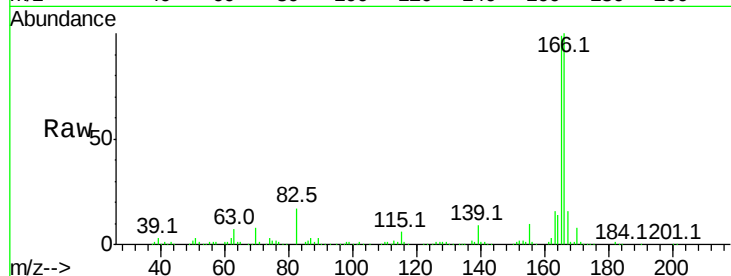
#57
Fluorene
 Concen: 20.87 ng/ml
 RT: 10.42 min Scan# 729
 Delta R.T. -0.02 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.2	77.8	116.8
167	16.1	10.8	16.2

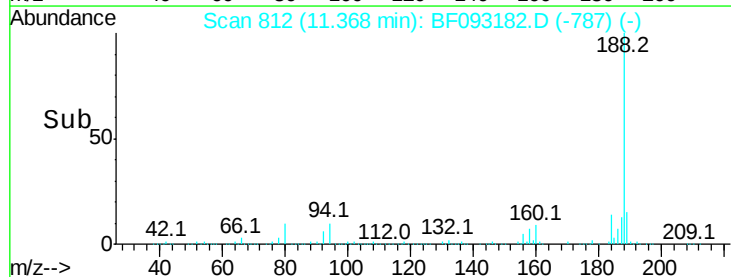
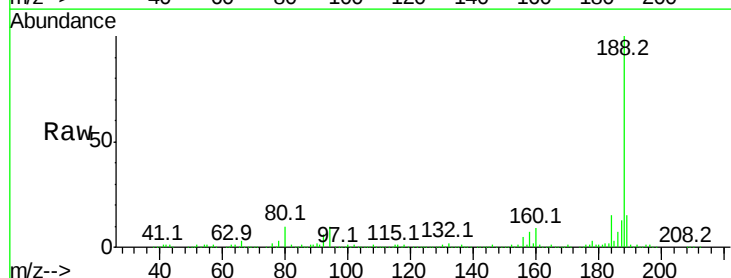
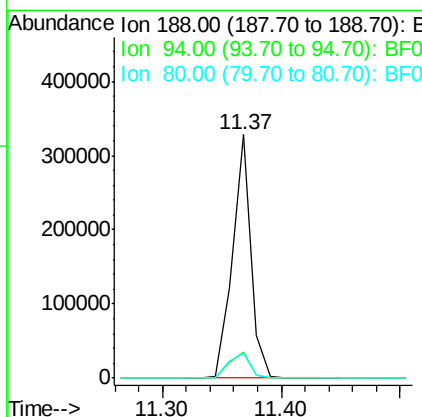
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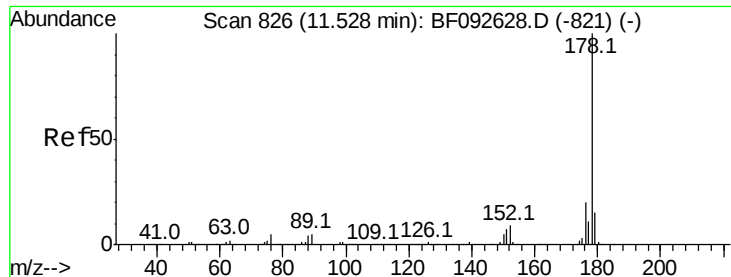
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	10.0	15.0
80	9.9	11.2	16.8





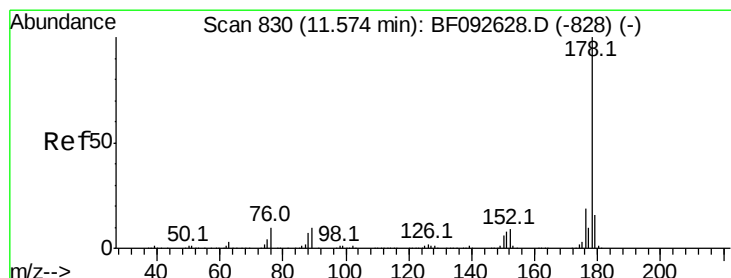
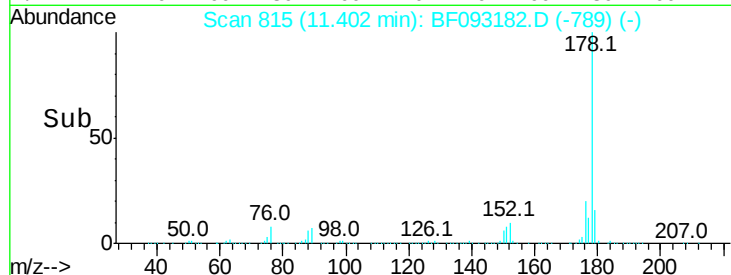
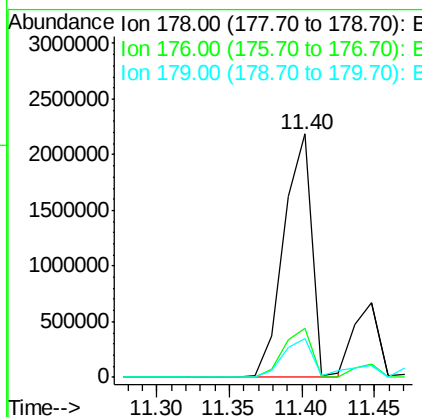
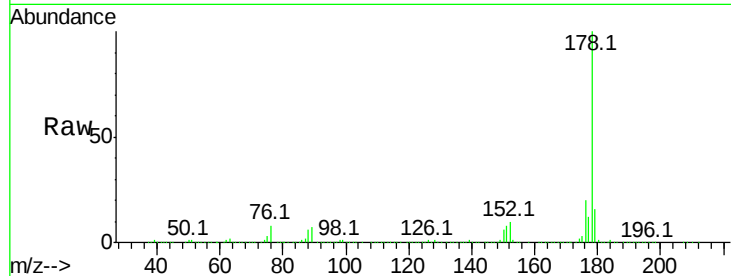
#70
Phenanthrene
Concen: 144.83 ng
RT: 11.40 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion:178 Resp: 2913666
Ion Ratio Lower Upper
178 100
176 20.3 16.6 25.0
179 15.7 12.8 19.2

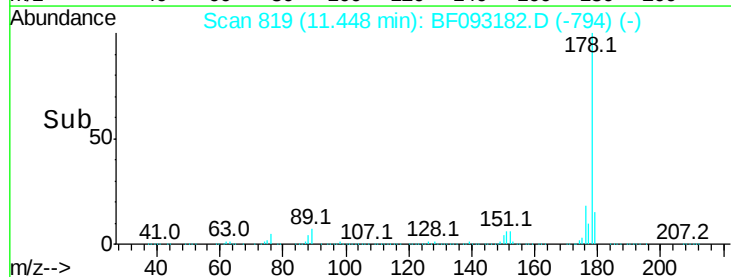
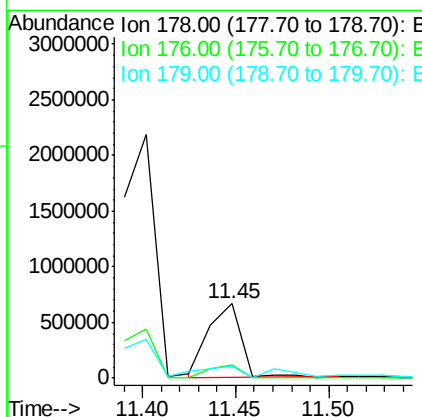
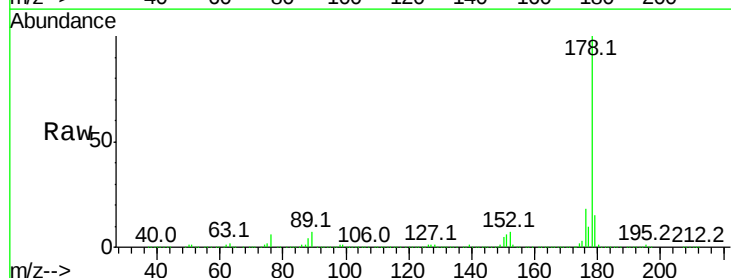
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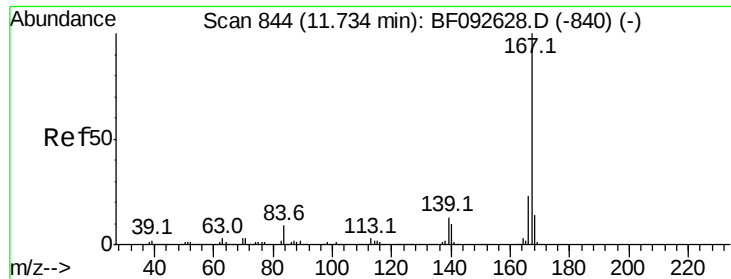
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#71
Anthracene
Concen: 39.80 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.01 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion:178 Resp: 803980
Ion Ratio Lower Upper
178 100
176 18.3 15.9 23.9
179 15.3 13.2 19.8





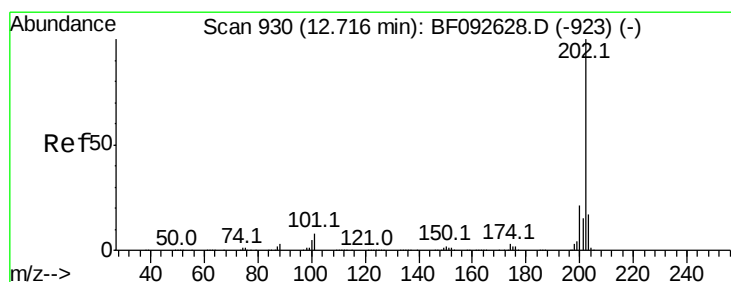
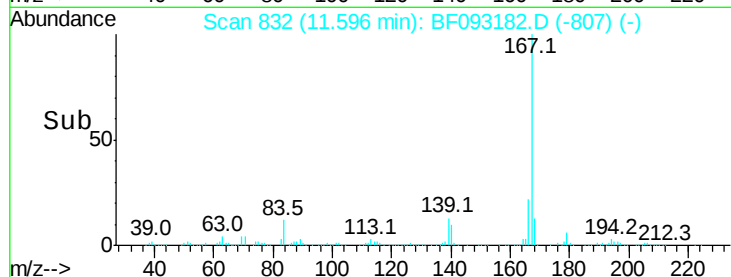
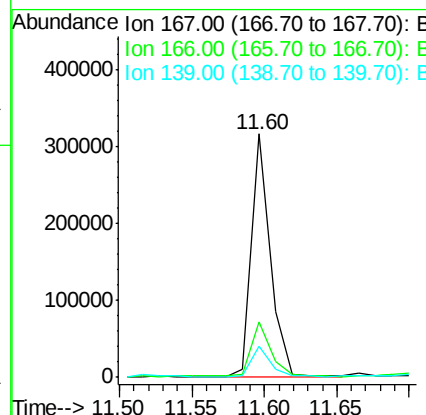
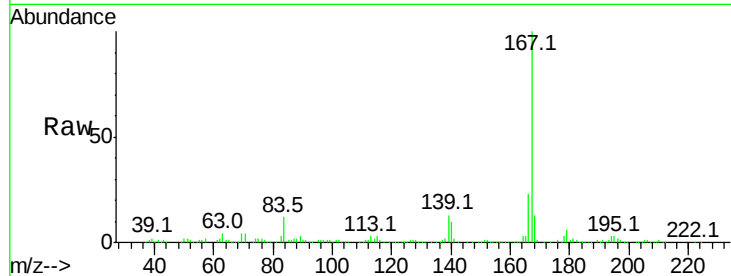
#72
 Carbazole
 Concen: 14.79 ng
 RT: 11.60 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Instrument :
 BNA_F
 ClientSampleId :
 E2B21-BASE-3

Tot Ion	Ratio	Resp	Lower	Upper
167	100	285610		
166	22.7		18.2	27.2
139	13.0		11.4	17.2

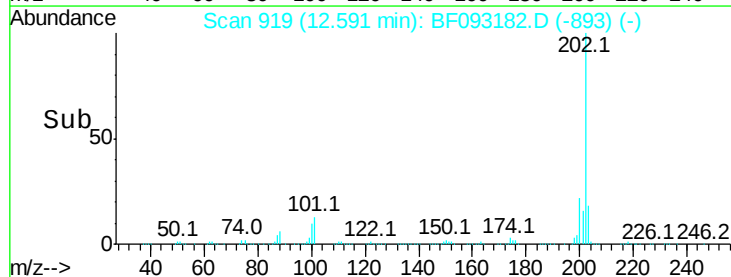
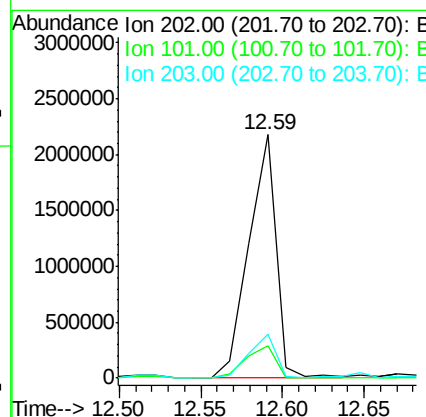
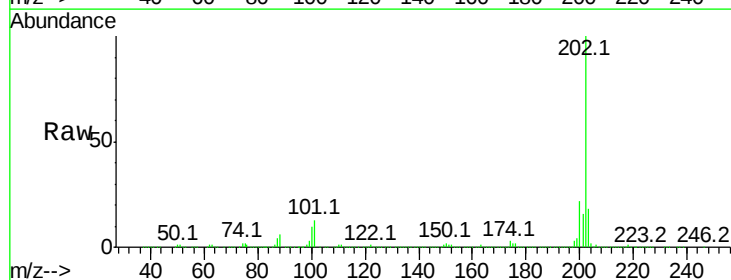
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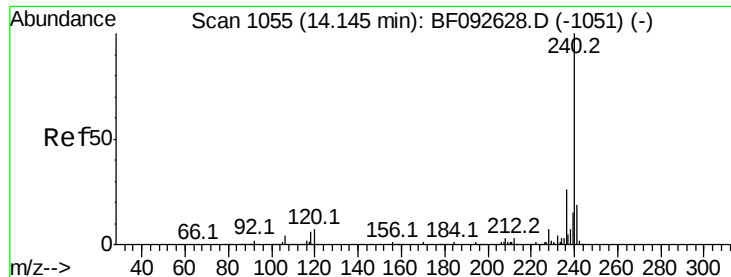
mohammad
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#74
 Fluoranthene
 Concen: 119.84 ng
 RT: 12.59 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BF093182.D
 Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2486748		
101	13.2		0.0	34.6
203	18.3		0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.00 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

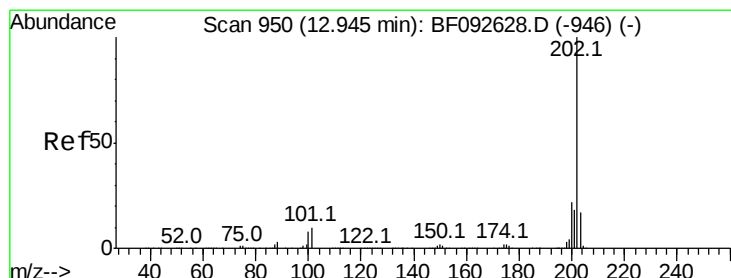
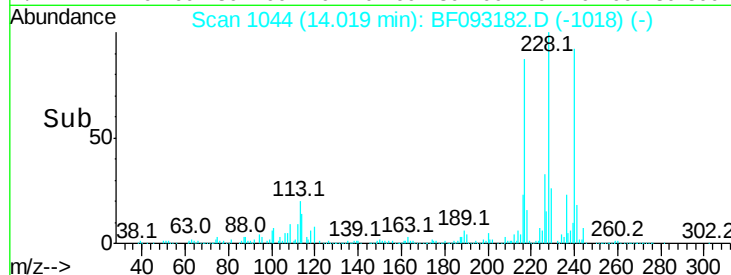
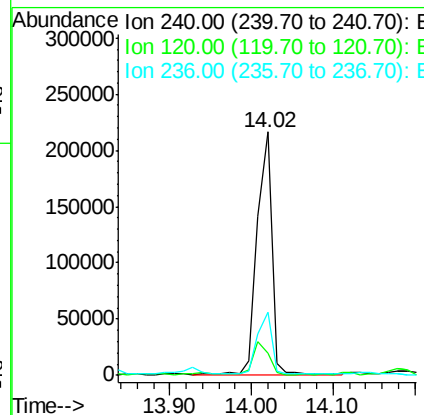
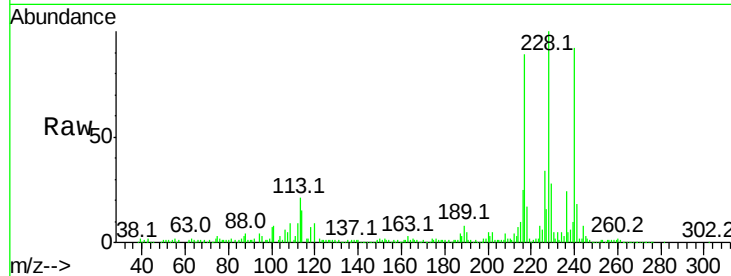
ClientSampleId :

E2B21-BASE-3

Tot Ion:	240	Resp:	265666
Ion Ratio	Lower	Upper	
240	100		
120	9.3	12.9	19.3#
236	25.7	20.9	31.3

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#77

Pyrene

Concen: 124.68 ng

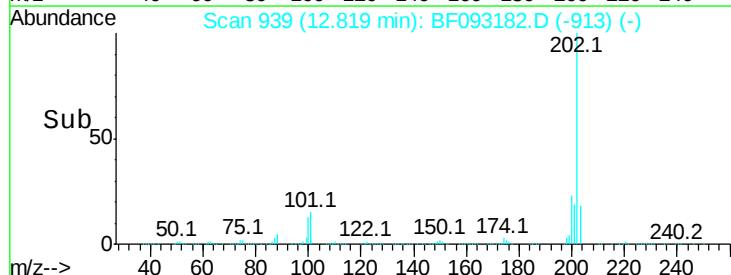
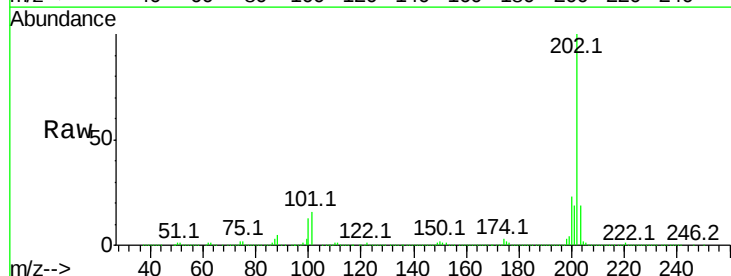
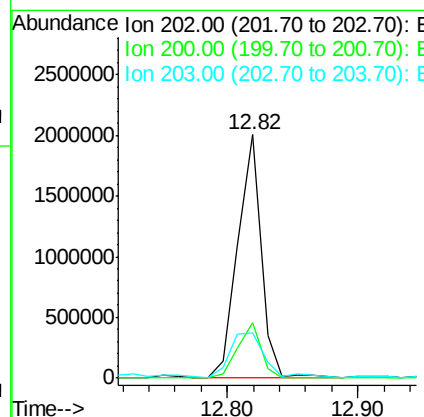
RT: 12.82 min Scan# 939

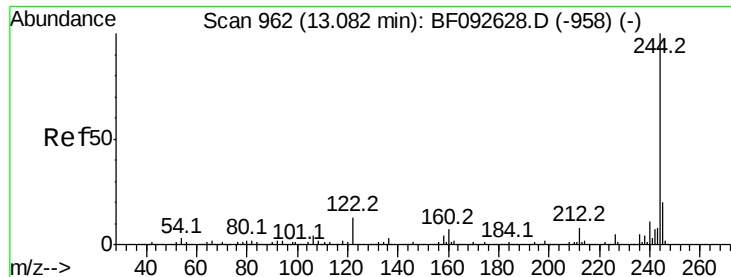
Delta R.T. -0.00 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Tgt Ion:	202	Resp:	2478775
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.7	26.5
203	18.8	14.7	22.1





#78

Terphenyl-d14

Concen: 77.24 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Instrument :

BNA_F

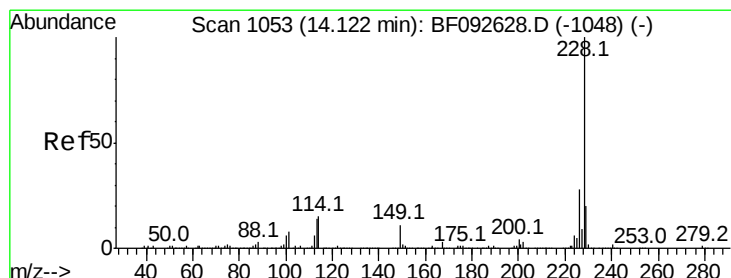
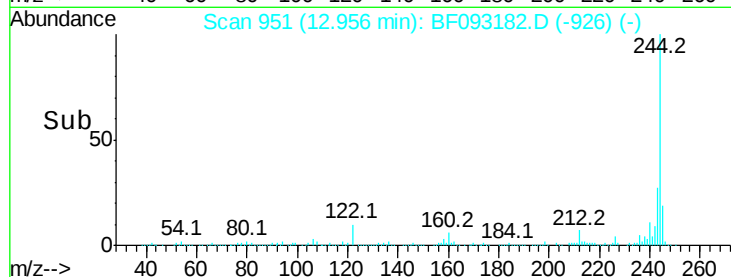
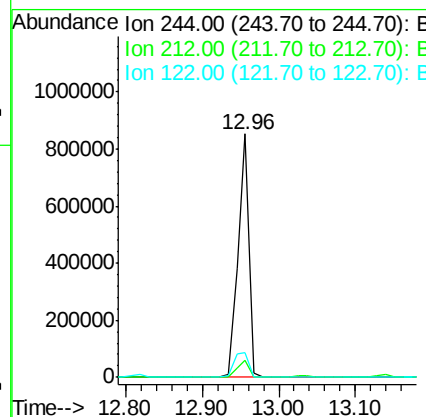
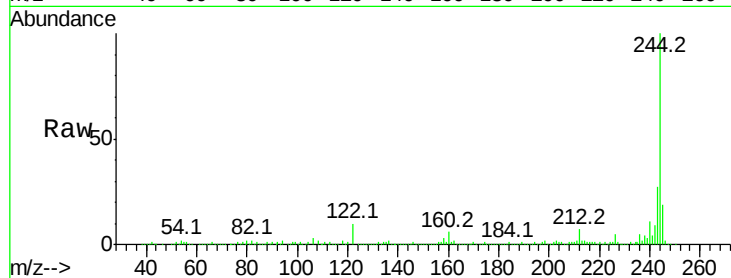
ClientSampleId :

E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.2	9.2
122	10.0	11.4	17.2#

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#80

Benzo(a)anthracene

Concen: 95.13 ng

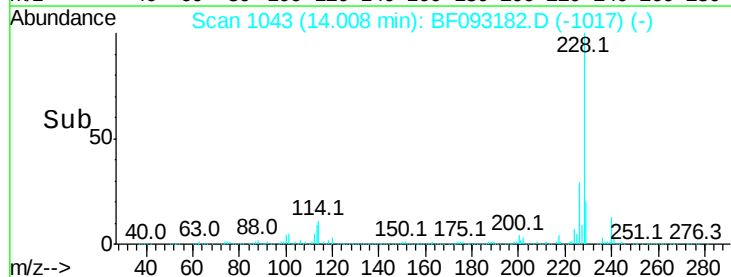
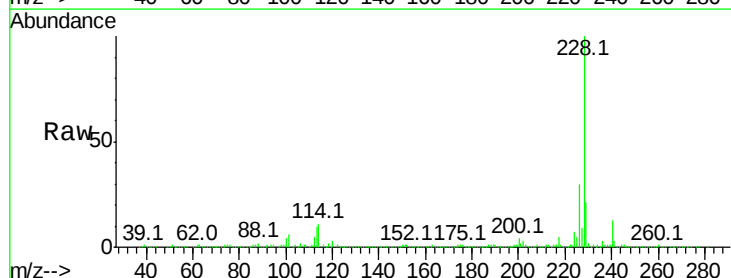
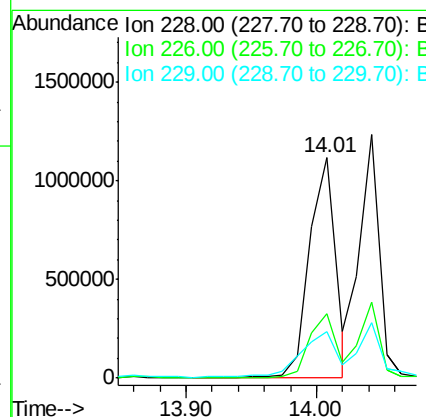
RT: 14.01 min Scan# 1043

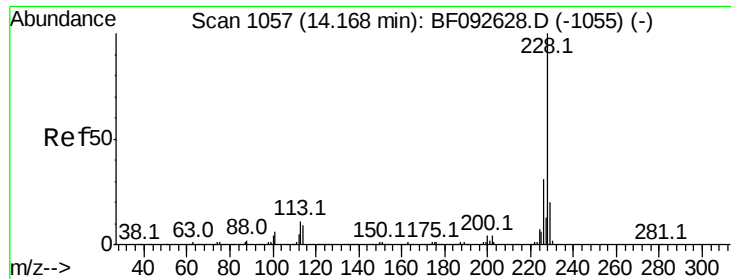
Delta R.T. -0.00 min

Lab File: BF093182.D

Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.4	33.6
229	21.2	16.2	24.4





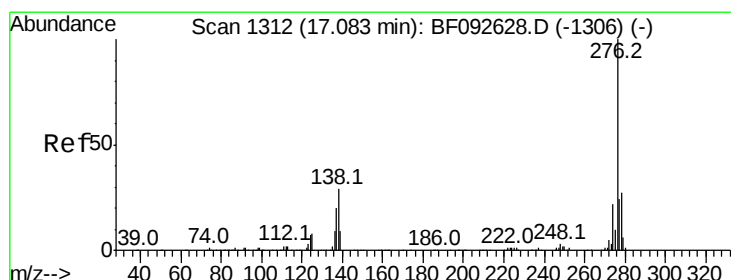
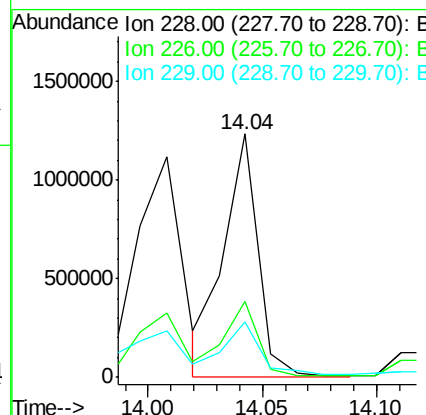
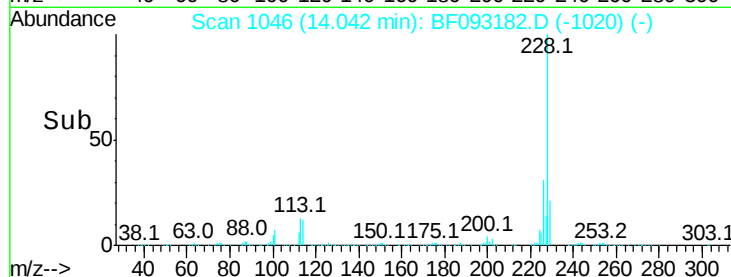
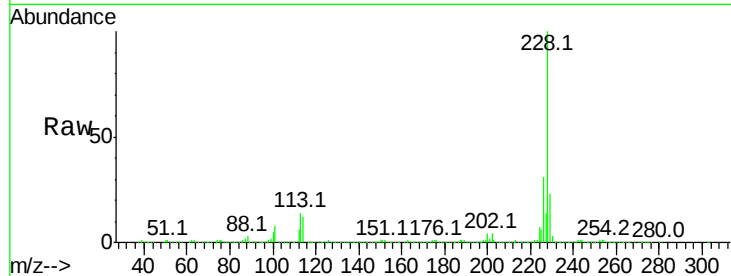
#82
Chrysene
Concen: 86.23 ng/ml
RT: 14.04 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion:228 Resp: 1311808
Ion Ratio Lower Upper
228 100
226 31.1 25.4 38.0
229 22.7 16.2 24.2

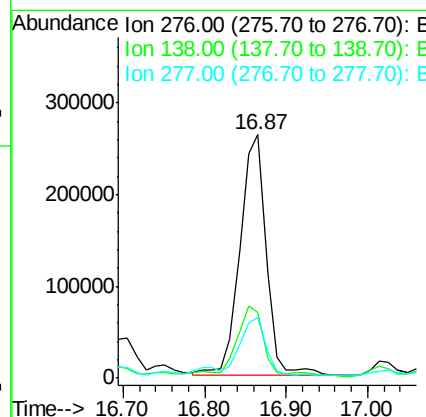
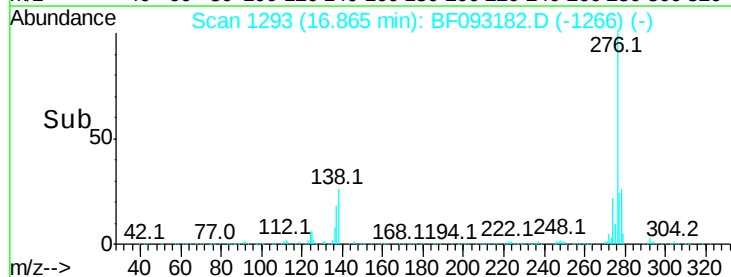
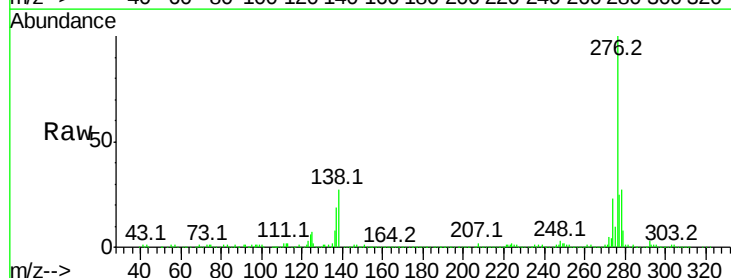
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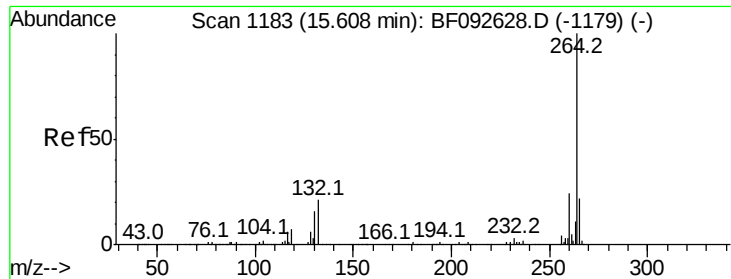
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#85
Indeno(1,2,3-cd)pyrene
Concen: 49.87 ng
RT: 16.87 min Scan# 1293
Delta R.T. 0.01 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion:276 Resp: 587605
Ion Ratio Lower Upper
276 100
138 28.8 21.8 32.6
277 24.6 20.2 30.4





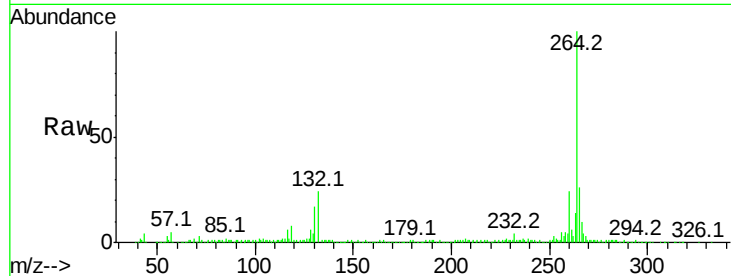
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	25.7	17.4	26.0

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Abundance

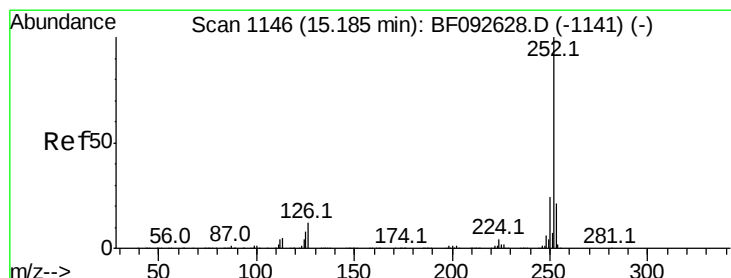
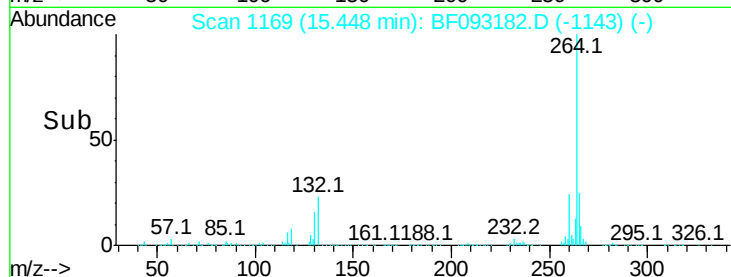
Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

15.45

Time-->



#87
Benzo(b)fluoranthene
Concen: 91.56 ng m
RT: 15.05 min Scan# 1134
Delta R.T. 0.01 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.4
125	13.4	9.8	14.6

Abundance

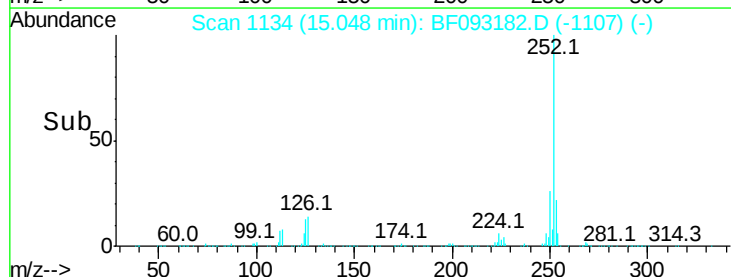
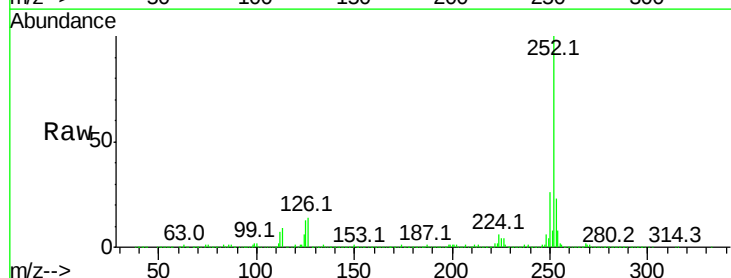
Ion 252.00 (251.70 to 252.70): E

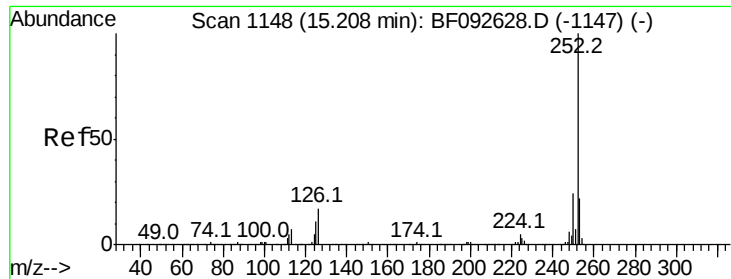
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

15.05

Time-->





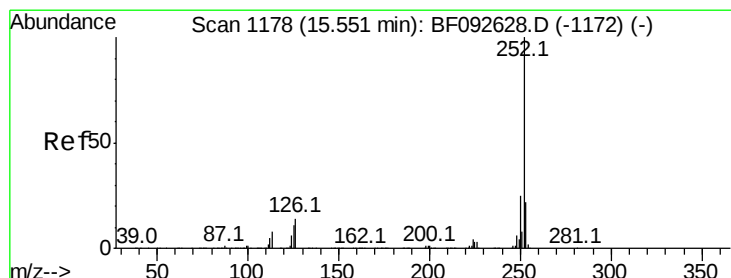
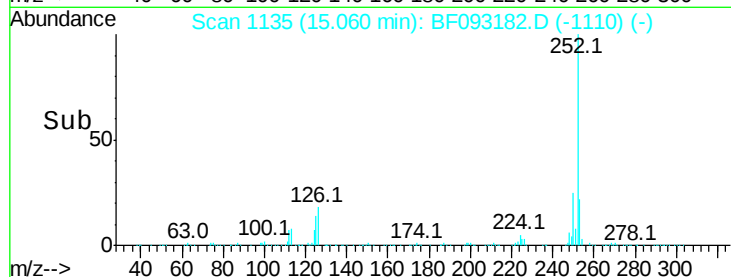
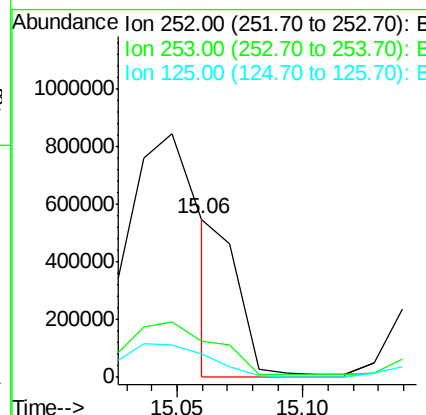
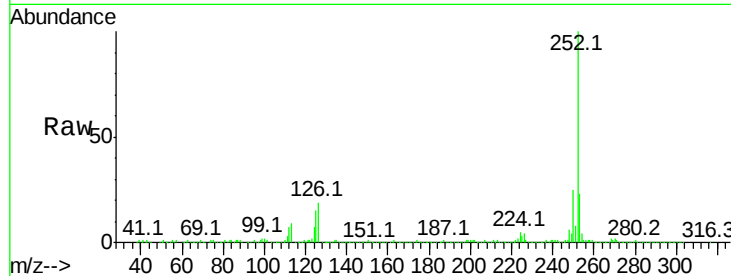
#88
Benzo(k)fluoranthene
Concen: 22.51 ng m
RT: 15.06 min Scan# 1135
Delta R.T. -0.01 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.5	27.7
125	14.7	8.9	13.3

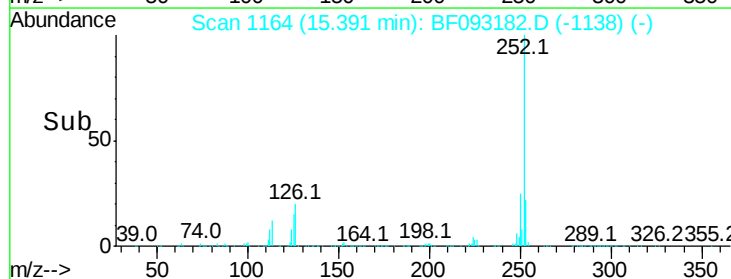
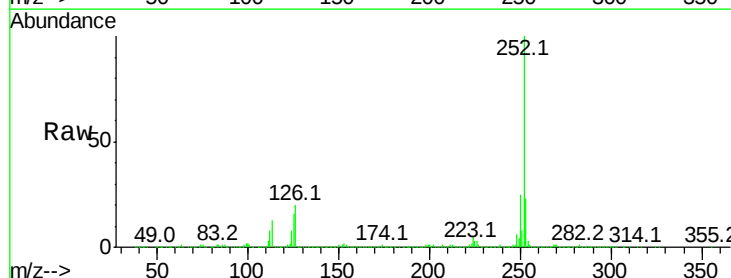
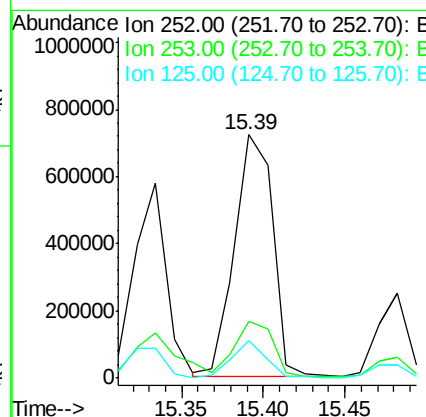
Manual Integrations
APPROVED

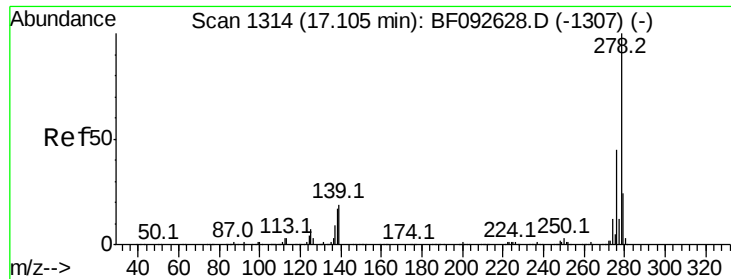
mohammad
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#89
Benzo(a)pyrene
Concen: 72.87 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	15.6	10.0	15.0





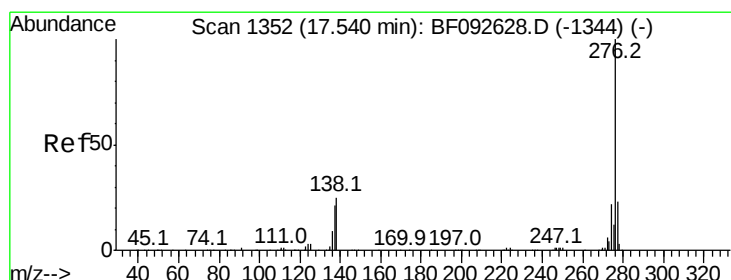
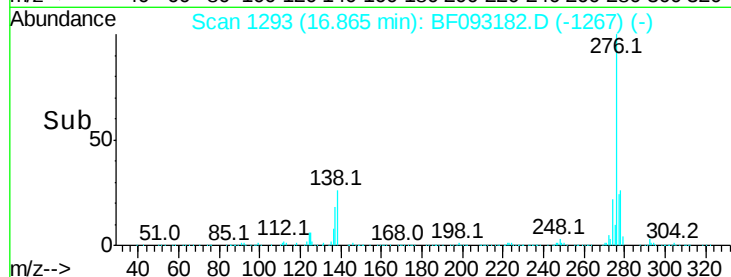
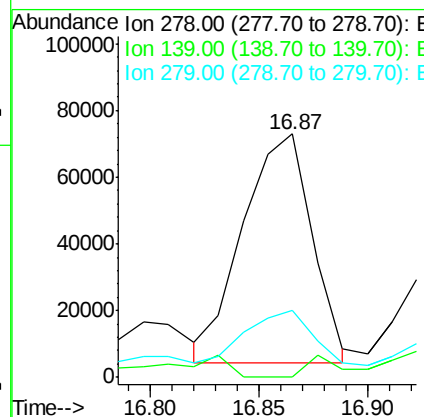
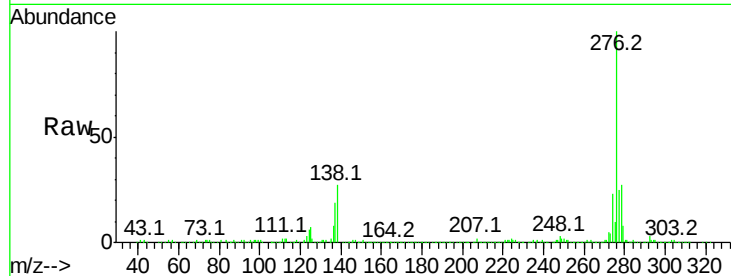
#90
Dibenzo(a,h)anthracene
Concen: 11.79 ng/mL
RT: 16.87 min Scan# 1293
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Instrument :
BNA_F
ClientSampleId :
E2B21-BASE-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	27.8	19.8	29.6

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 42.82 ng/mL
RT: 17.29 min Scan# 1330
Delta R.T. -0.00 min
Lab File: BF093182.D
Acq: 25 Feb 2017 10:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.2	28.8
138	29.1	16.0	24.0#

