

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
 Data File : BF093942.D
 Acq On : 27 Mar 2017 14:16
 Operator : SJ/MA
 Sample : I2364-01DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Manual Integrations
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 3/28/2017 3:43:00 PM

Quant Time: Mar 27 16:36:59 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.95	152	183619	20.00	ng	0.00
21) Naphthalene-d8	7.46	136	748055	20.00	ng	0.00
38) Acenaphthene-d10	9.60	164	331876	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	526794	20.00	ng	0.00
75) Chrysene-d12	14.67	240	322605	20.00	ng	0.00
86) Perylene-d12	16.31	264	304530	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.47	112	64580	5.94	ng	0.00
7) Phenol-d6	5.53	99	157058	11.68	ng	-0.02
23) Nitrobenzene-d5	6.59	82	88905	6.78	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	7616	2.90	ng	-0.01
44) 2-Fluorobiphenyl	8.77	172	218326	10.03	ng	0.00
78) Terphenyl-d14	13.39	244	132284	9.19	ng	-0.01
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.06	122	30415	2.86	ng	96
31) Naphthalene	7.49	128	2540568	70.63	ng	99
37) 2-Methylnaphthalene	8.33	142	838502	34.97	ng	98
45) 1,1'-Biphenyl	8.89	154	250829	9.37	ng	98
48) Acenaphthylene	9.42	152	960608	27.58	ng	99
51) Acenaphthene	9.63	154	168016	8.27	ng	99
54) Dibenzofuran	9.85	168	384232	13.89	ng	98
57) Fluorene	10.27	166	667910	29.12	ng	99
70) Phenanthrene	11.46	178	2399648	81.89	ng	100
71) Anthracene	11.52	178	947461	31.40	ng	99
72) Carbazole	11.71	167	168980	5.46	ng	98
74) Fluoranthene	12.92	202	1576308	52.53	ng	99
77) Pvrene	13.20	202	1812711	77.42	ng	99
80) Benzo(a)anthracene	14.66	228	550763m	29.28	ng	
82) Chrysene	14.71	228	506400	29.01	ng	97
85) Indeno(1,2,3-cd)pyrene	17.69	276	255050	16.87	ng	94
87) Benzo(b)fluoranthene	15.90	252	523175m	28.03	ng	
88) Benzo(k)fluoranthene	15.92	252	177834m	9.74	ng	
89) Benzo(a)pvrene	16.25	252	490095	28.51	ng	98
90) Dibenzo(a,h)anthracene	17.69	278	55276	3.80	ng	# 85
91) Benzo(g,h,i)perylene	18.09	276	278961	19.01	ng	98

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

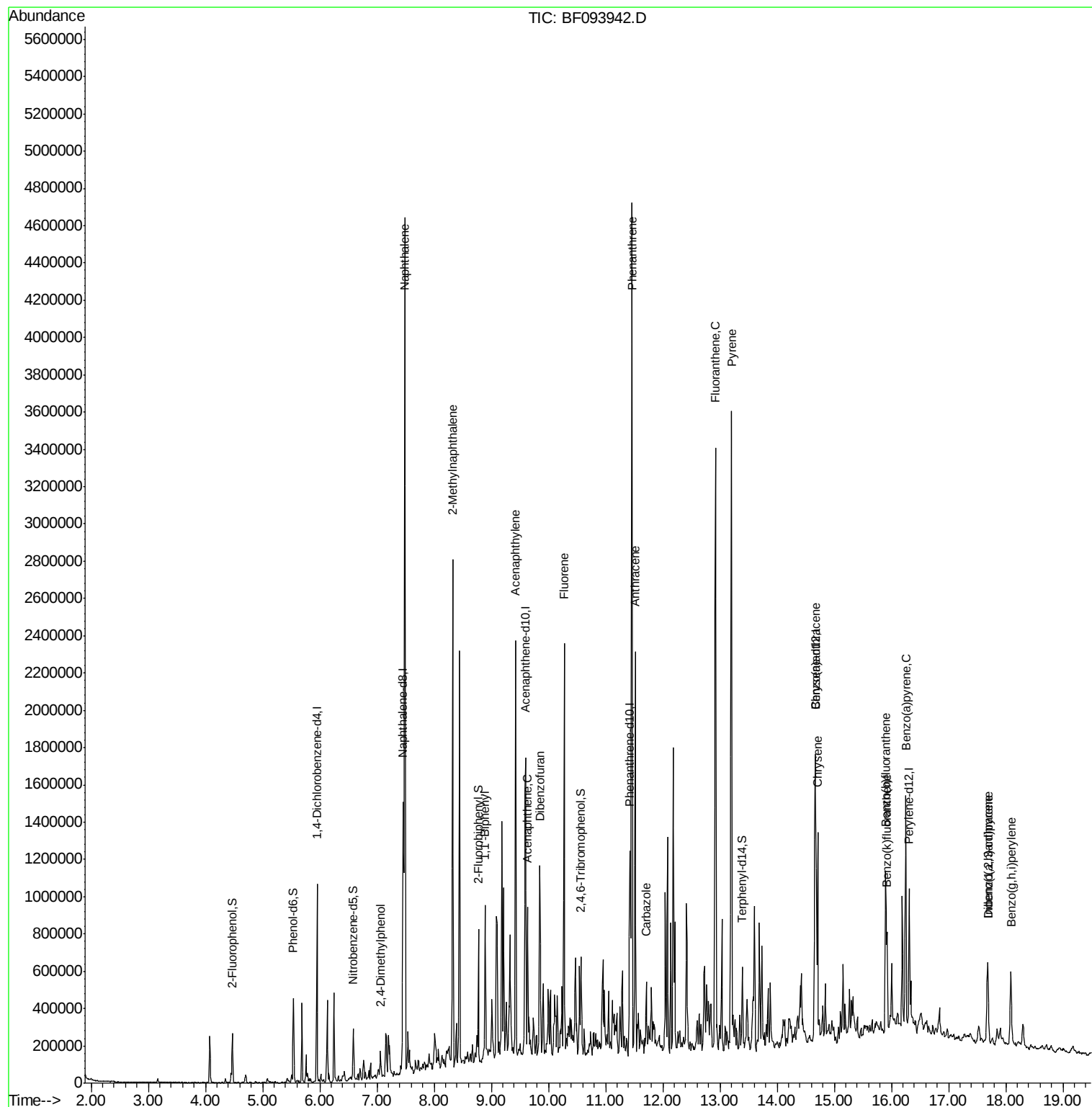
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
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Operator : SJ/MA
Sample : I2364-01DL 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

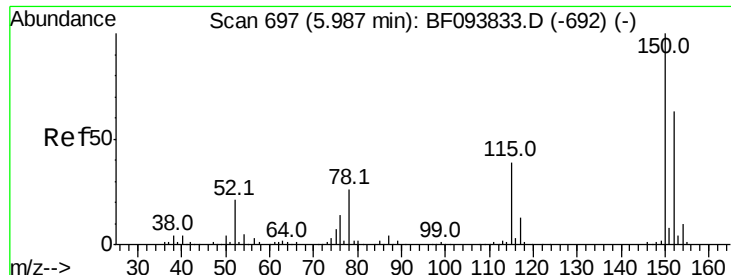
Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

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Quant Time: Mar 27 16:36:59 2017
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#1

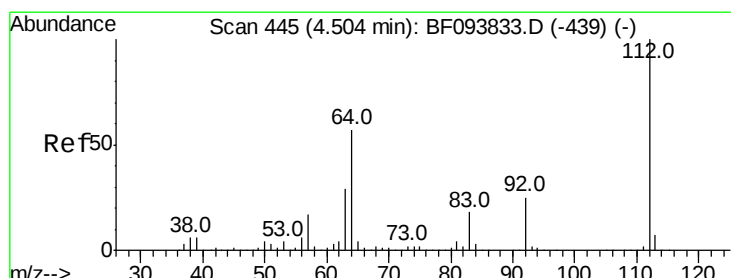
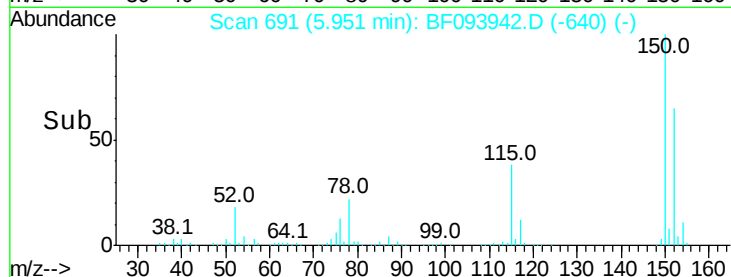
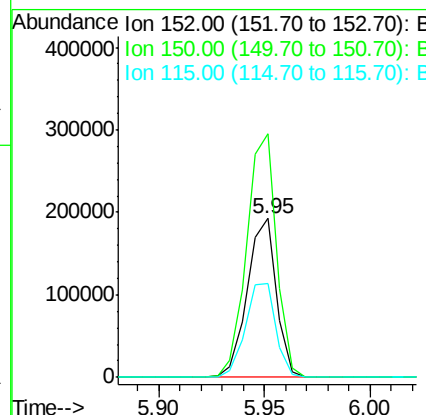
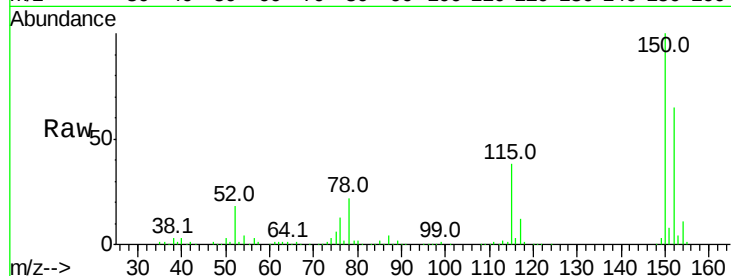
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.95 min Scan# 691
Delta R.T. 0.00 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	126.2	189.2
115	58.9	52.2	78.2

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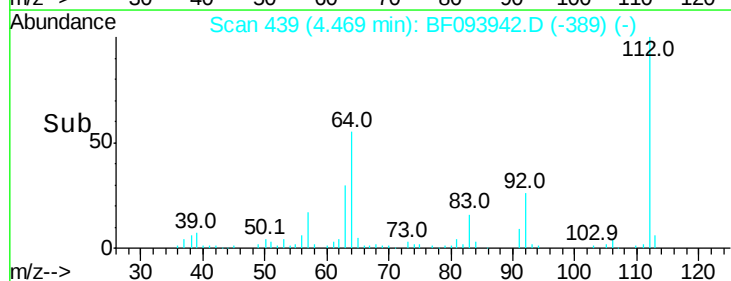
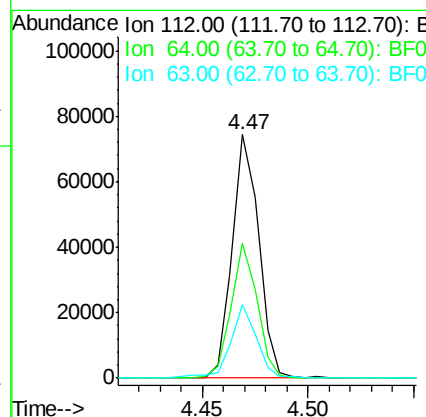
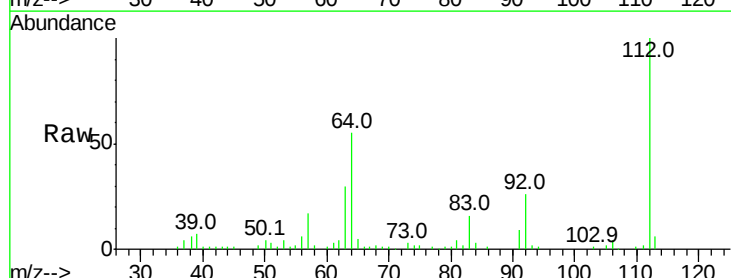
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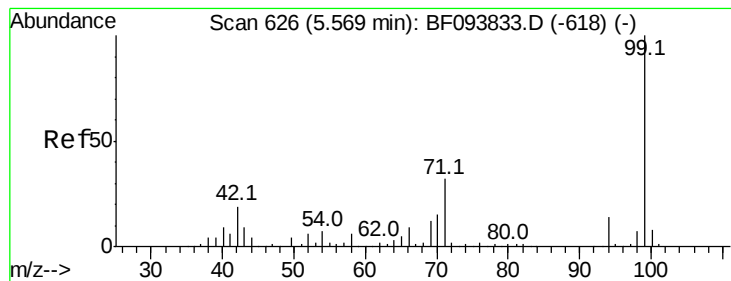


#5

2-Fluorophenol
Concen: 5.94 ng
RT: 4.47 min Scan# 439
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	46.0	69.0
63	30.2	23.4	35.0





#7

Phenol-d6

Concen: 11.68 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

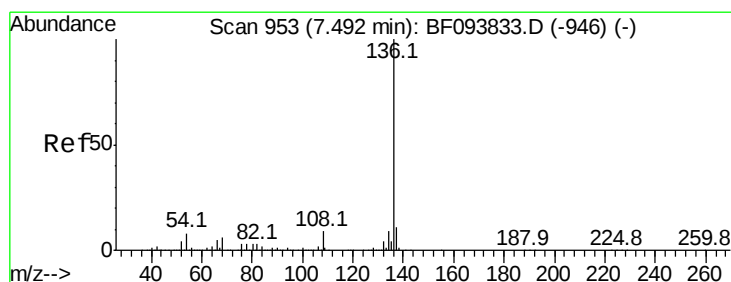
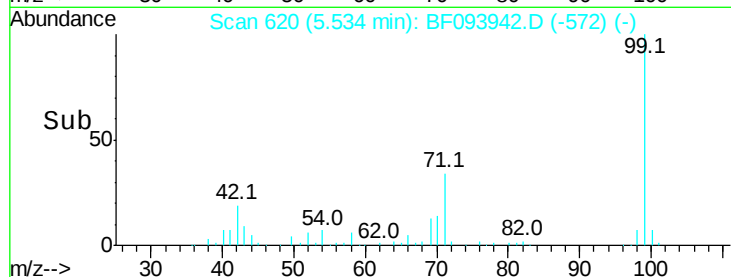
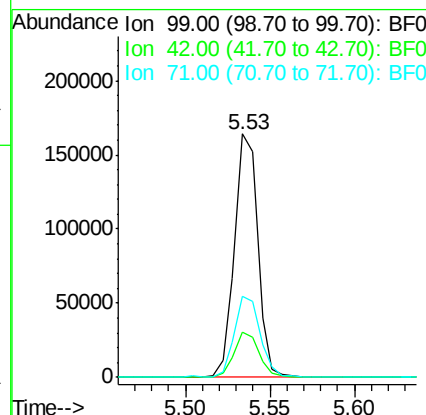
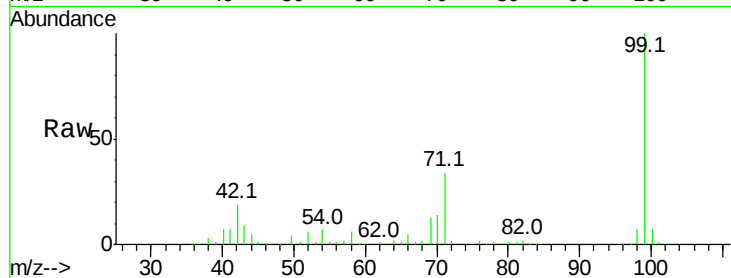
ClientSampleId :

WC-COMP-10DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		157058		
42	18.8	13.5	20.3		
71	33.5	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.00 ng

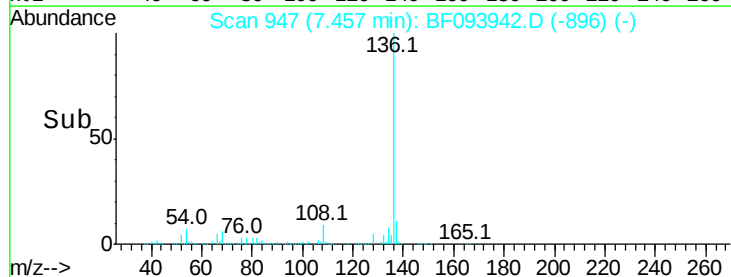
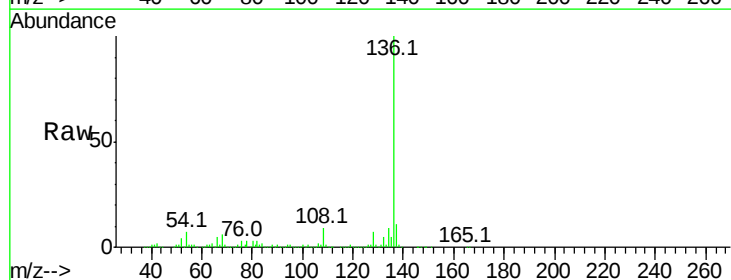
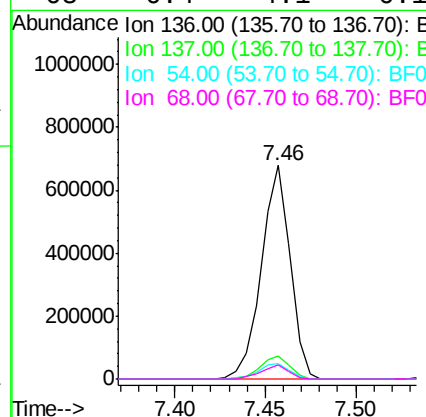
RT: 7.46 min Scan# 947

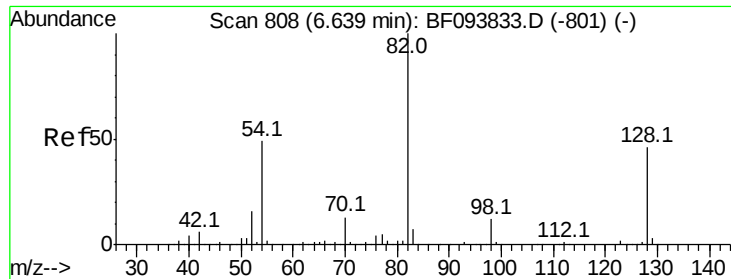
Delta R.T. 0.00 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		748055		
137	11.0	8.5	12.7		
54	7.1	4.9	7.3		
68	6.4	4.1	6.1#		





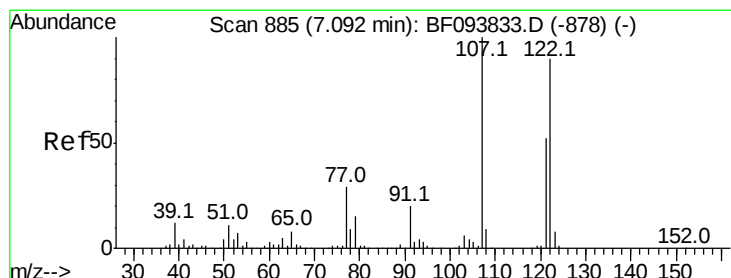
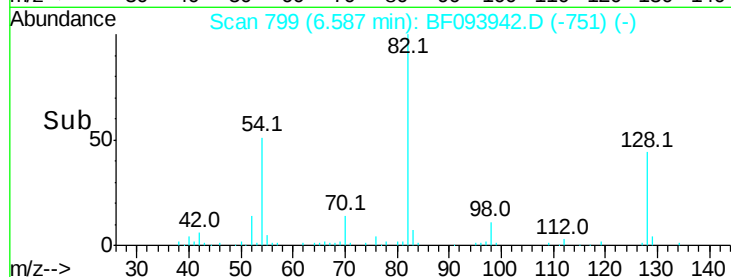
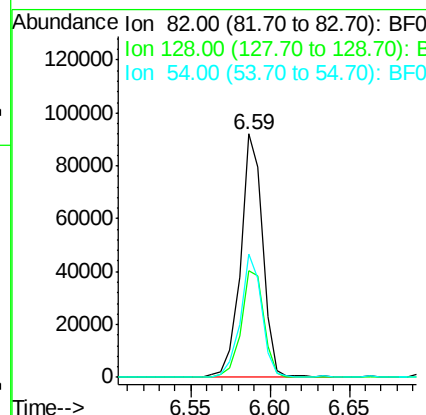
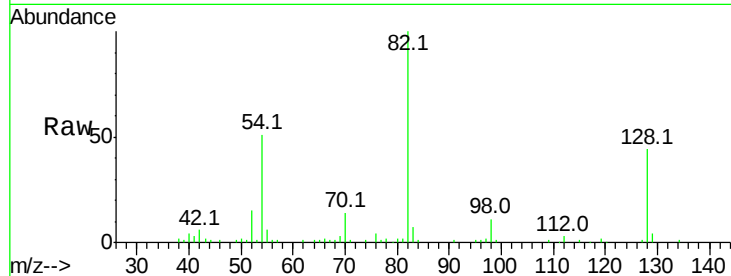
#23
Nitrobenzene-d5
Concen: 6.78 ng
RT: 6.59 min Scan# 799
Delta R.T. -0.02 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.6	34.0	51.0
54	50.6	42.2	63.2

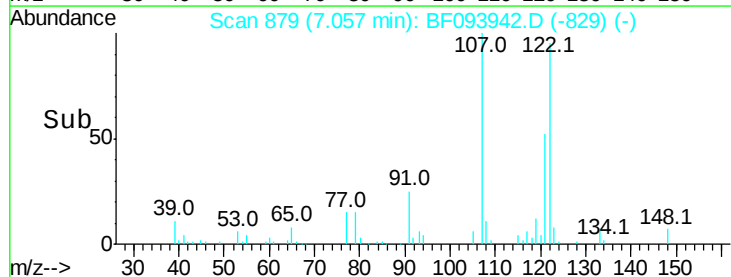
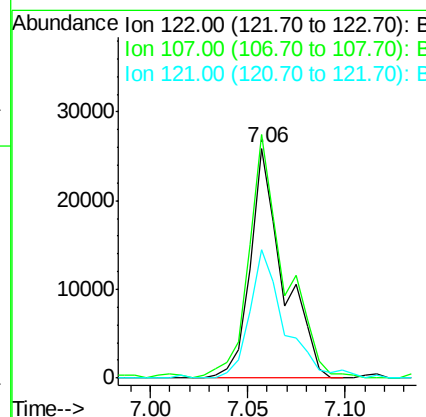
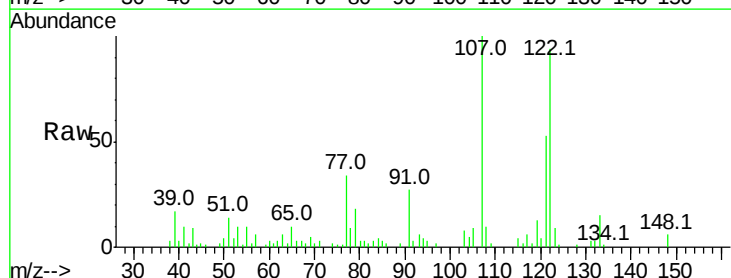
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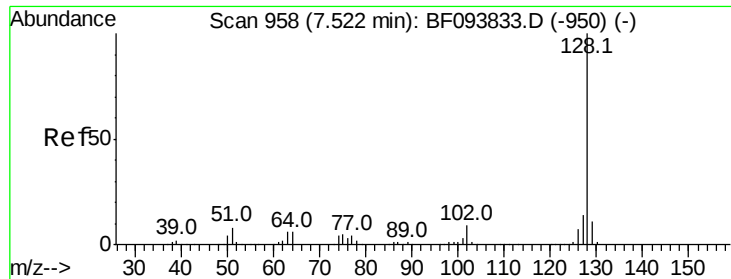
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#27
2,4-Dimethylphenol
Concen: 2.86 ng
RT: 7.06 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
122	100		
107	106.0	89.2	133.8
121	55.8	45.2	67.8





#31

Naphthalene

Concen: 70.63 ng

RT: 7.49 min Scan# 952

Delta R.T. 0.00 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

ClientSampleId :

WC-COMP-10DL

Tot Ion:128 Resp: 2540568

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.6

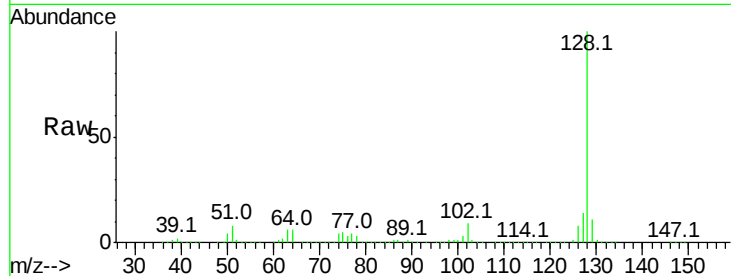
127 14.1 10.8 16.2

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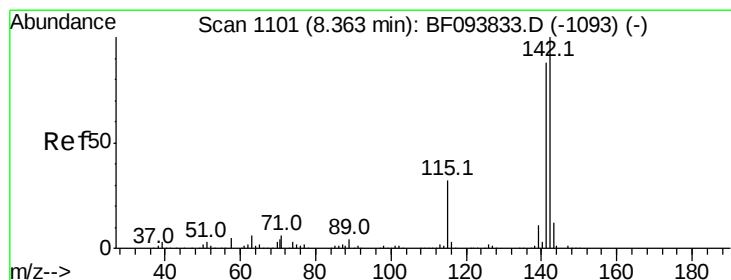
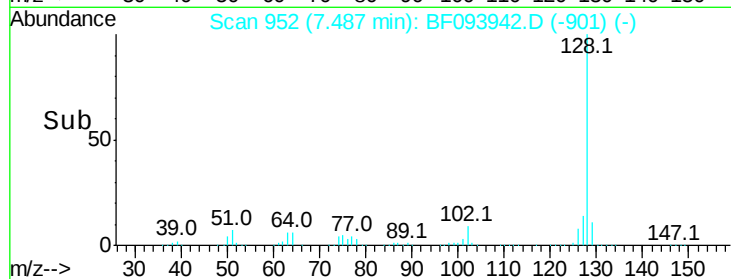
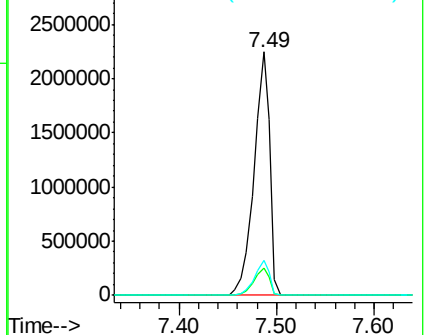
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 34.97 ng

RT: 8.33 min Scan# 1095

Delta R.T. 0.00 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

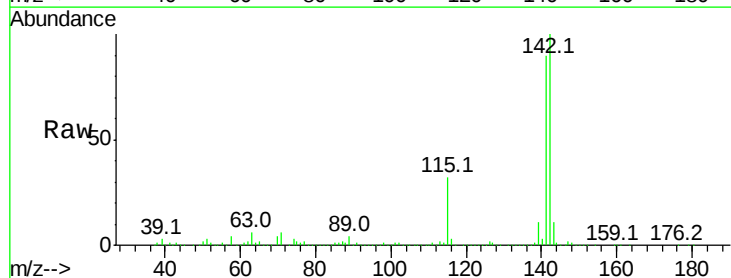
Tgt Ion:142 Resp: 838502

Ion Ratio Lower Upper

142 100

141 90.4 71.3 106.9

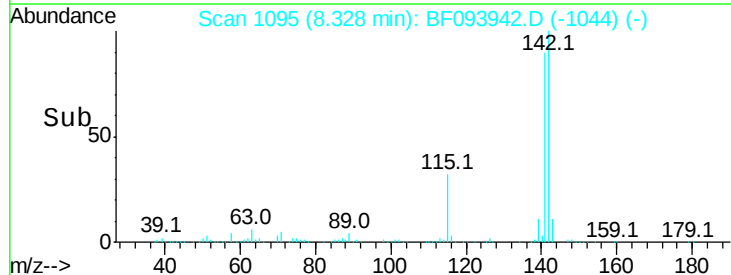
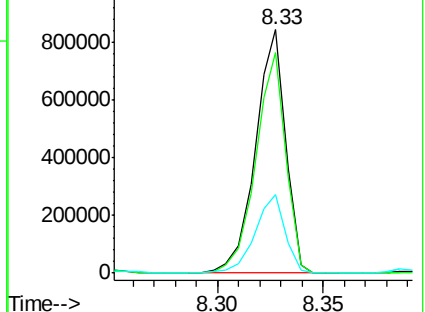
115 32.2 27.1 40.7

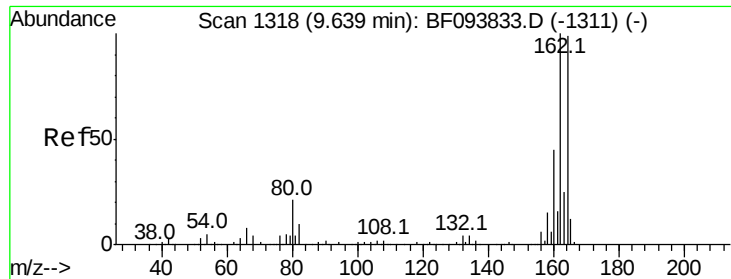


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





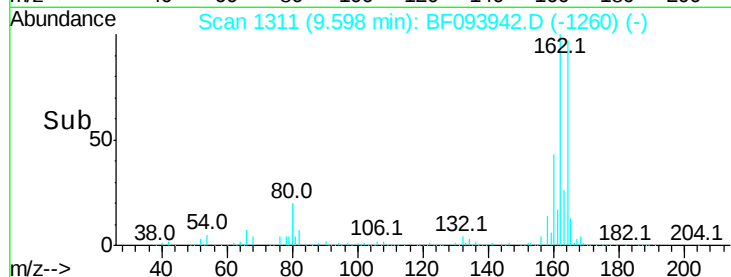
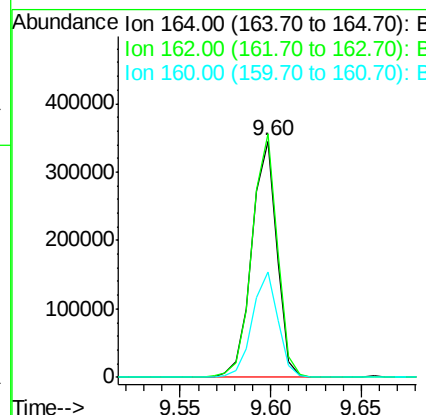
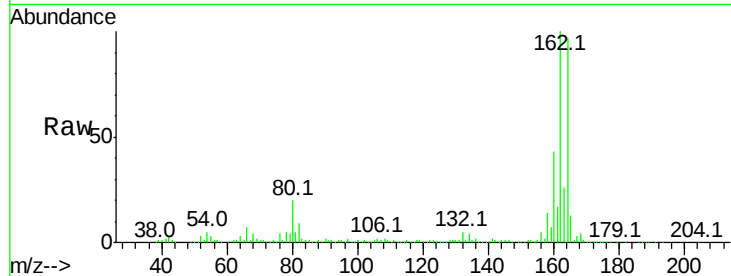
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.60 min Scan# 1311
 Delta R.T. 0.00 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.0	82.6	123.8
160	44.5	36.2	54.2

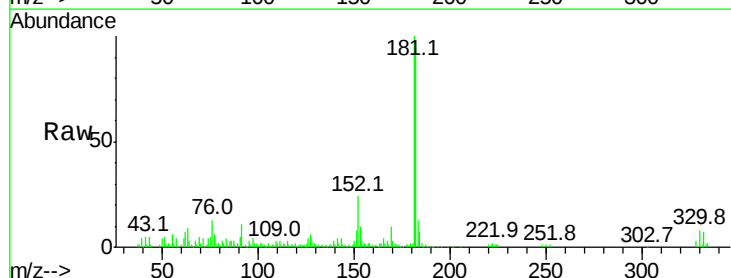
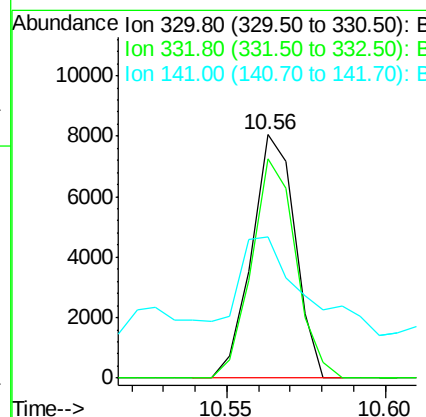
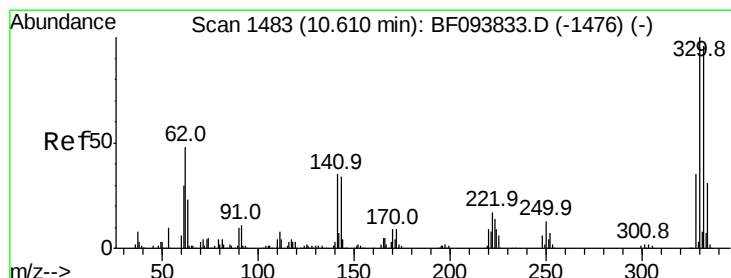
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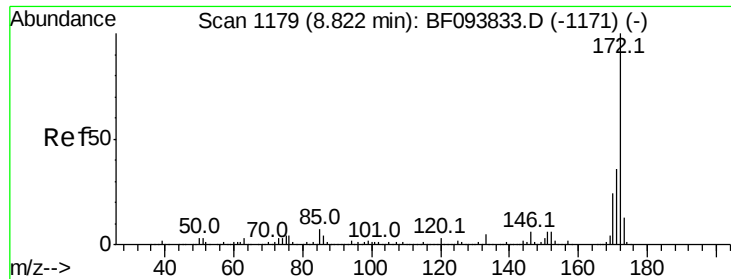
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#41
 2,4,6-Tribromophenol
 Concen: 2.90 ng
 RT: 10.56 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.3	76.6	115.0
141	67.1	31.4	47.2





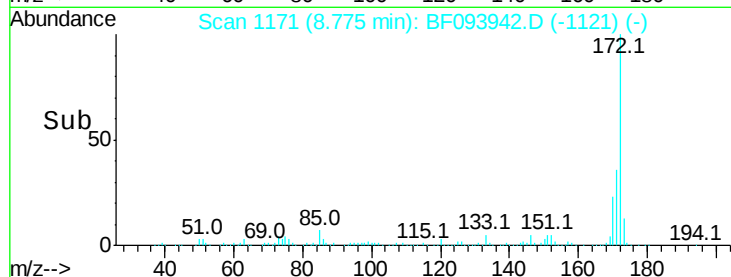
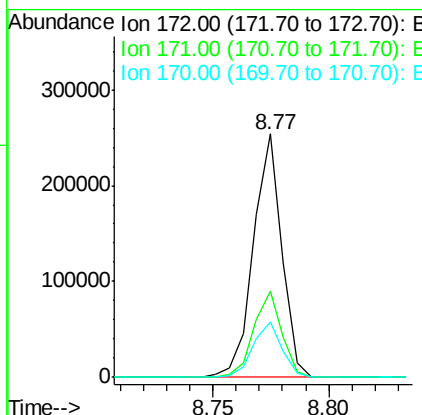
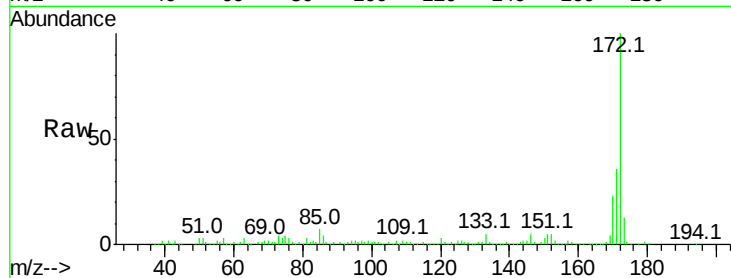
#44
 2-Fluorobiphenyl
 Concen: 10.03 ng
 RT: 8.77 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	22.6	19.8	29.8

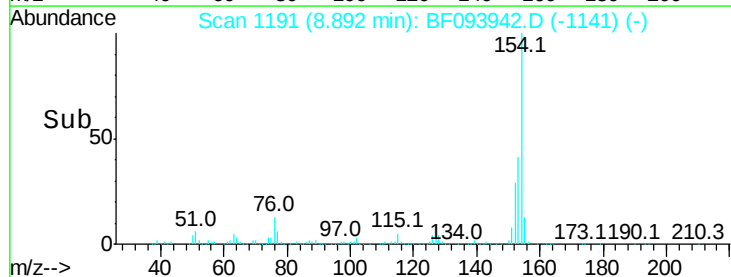
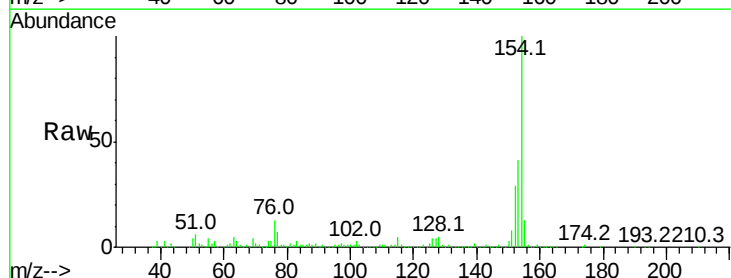
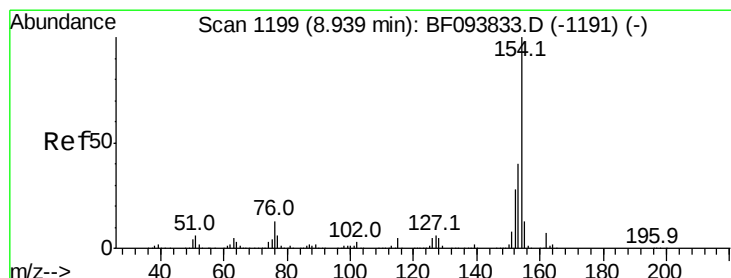
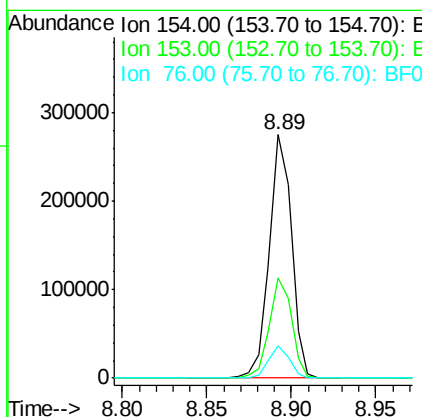
Manual Integrations
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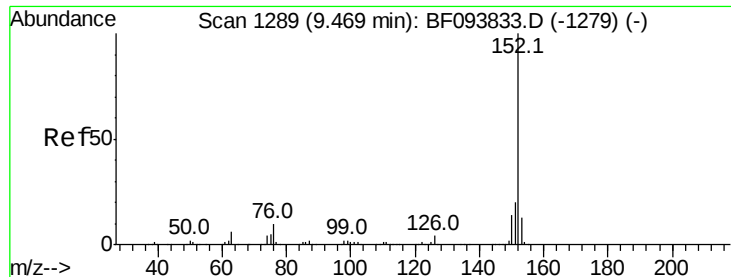
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#45
 1,1'-Biphenyl
 Concen: 9.37 ng
 RT: 8.89 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.2	61.2
76	13.4	0.0	29.9





#48

Acenaphthylene

Concen: 27.58 ng

RT: 9.42 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

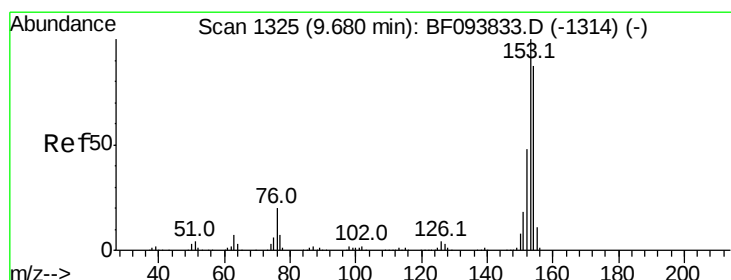
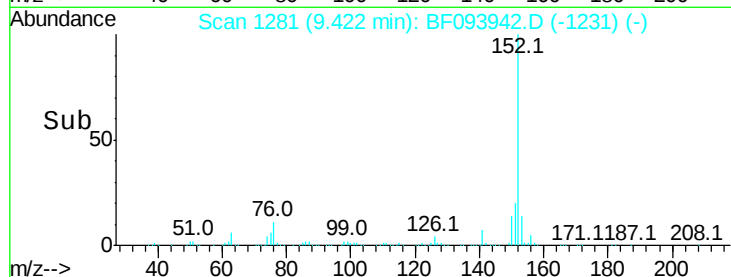
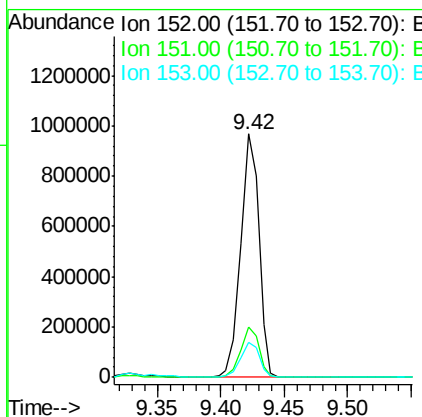
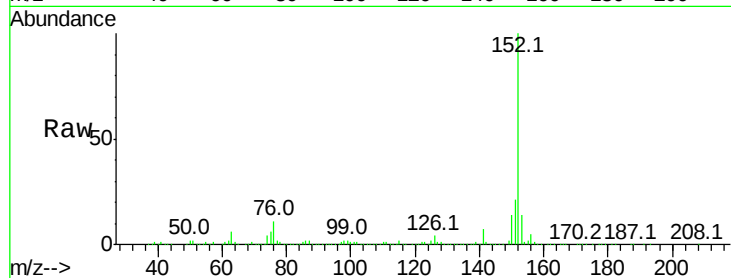
ClientSampleId :

WC-COMP-10DL

Tot Ion:	152	Resp:	960608
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	14.4	10.8	16.2

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#51

Acenaphthene

Concen: 8.27 ng

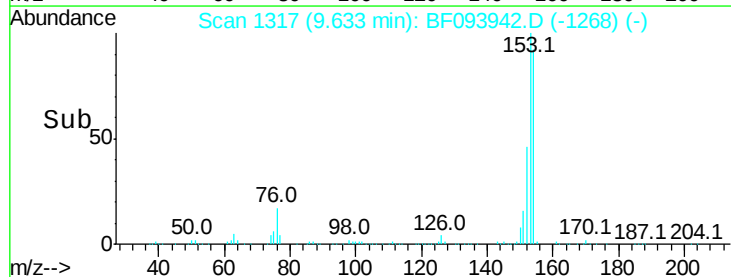
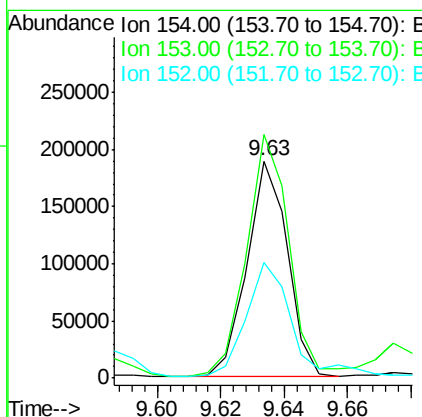
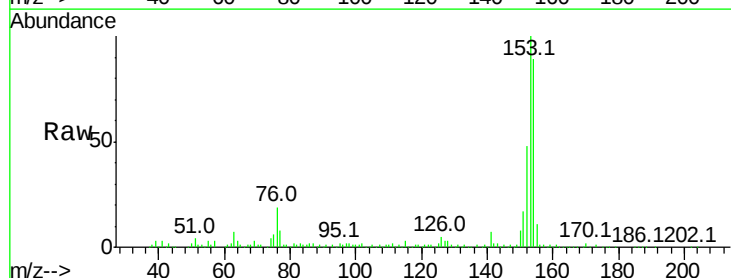
RT: 9.63 min Scan# 1317

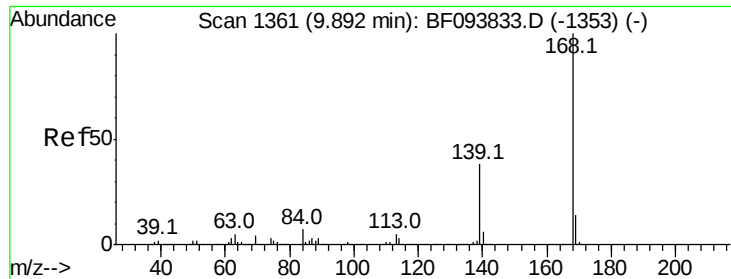
Delta R.T. -0.01 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Tgt Ion:	154	Resp:	168016
Ion Ratio	Lower	Upper	
154	100		
153	112.2	90.5	135.7
152	53.4	43.6	65.4





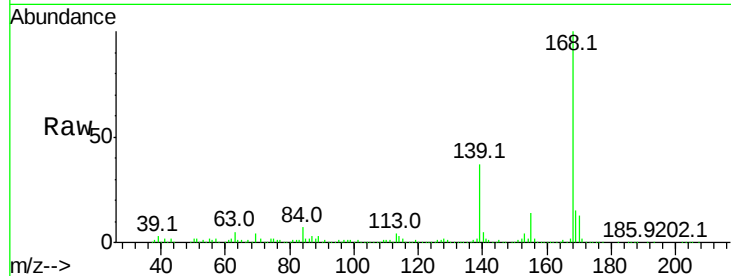
#54
Dibenzofuran
Concen: 13.89 ng
RT: 9.85 min Scan# 1354
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleID :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.2	30.6	45.8
169	14.9	10.8	16.2

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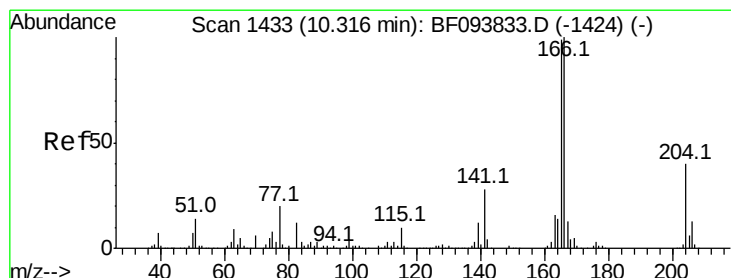
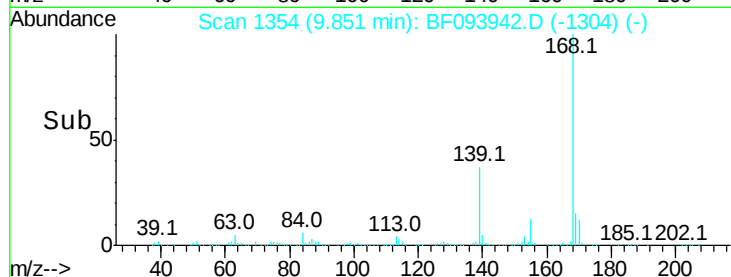
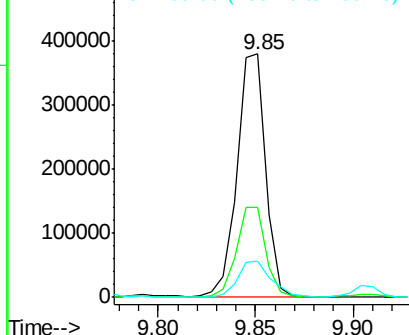


Abundance

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: 29.12 ng
RT: 10.27 min Scan# 1426
Delta R.T. 0.00 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

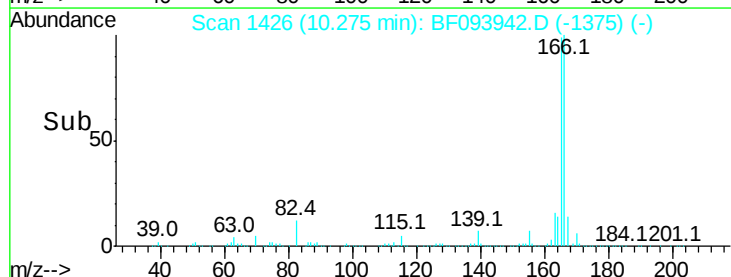
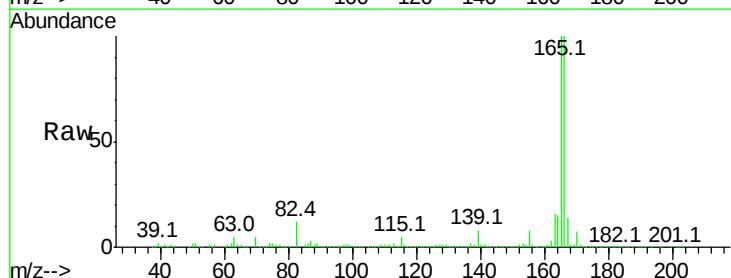
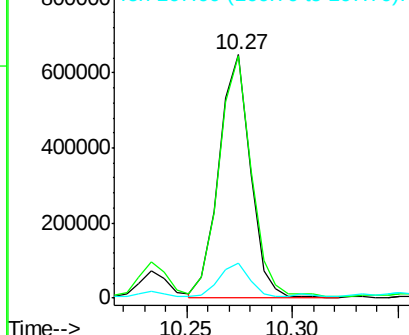
Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.8	118.2
167	14.2	10.6	16.0

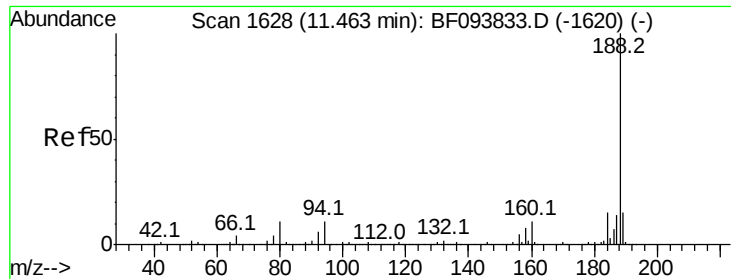
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





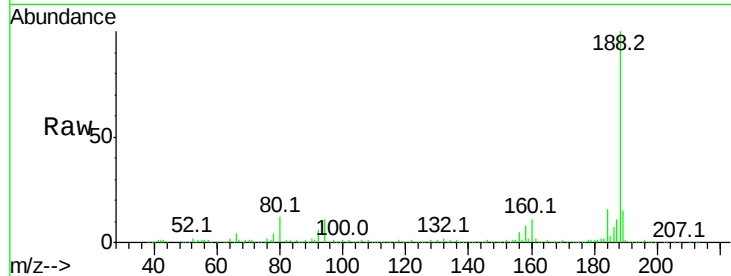
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 1621
Delta R.T. 0.00 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

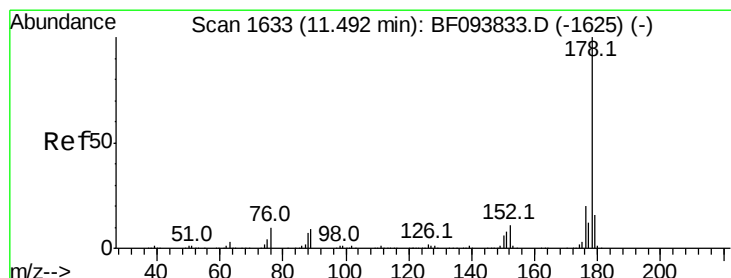
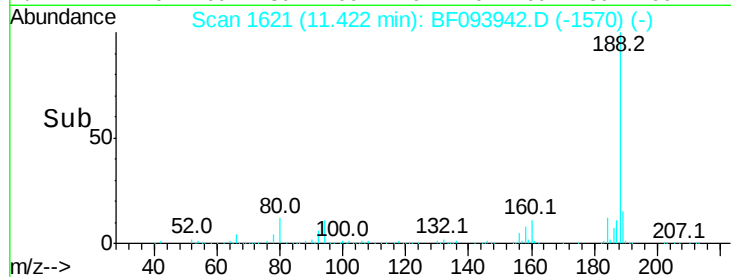
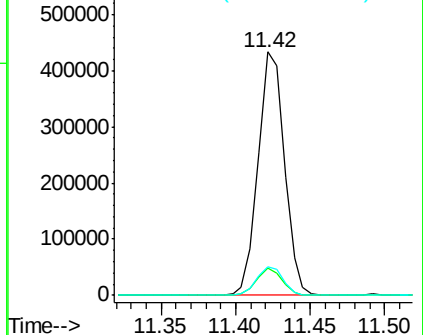
Tot Ion	Ratio	Lower	Upper
188	100		
94	11.4	9.4	14.2
80	11.7	10.2	15.2

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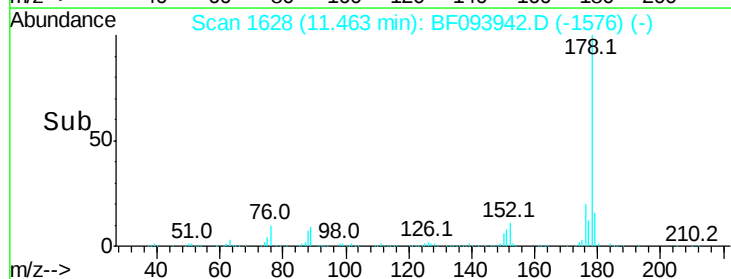
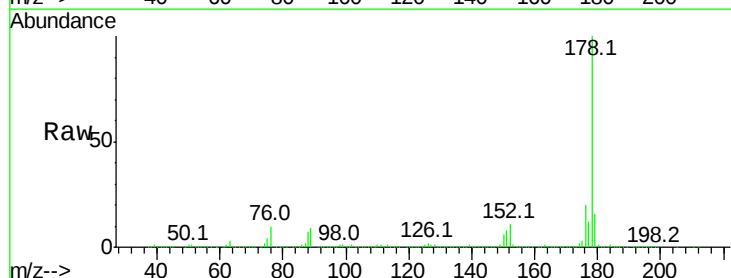
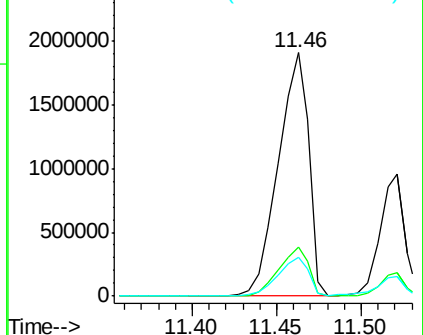
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

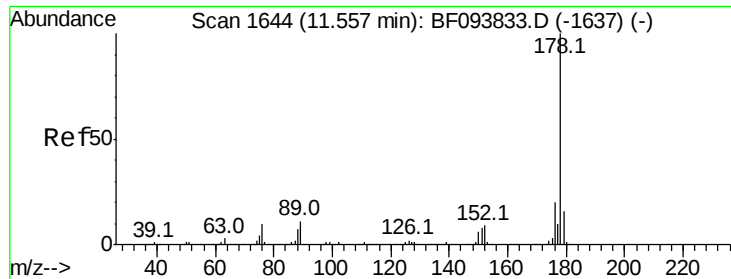


#70
Phenanthrene
Concen: 81.89 ng
RT: 11.46 min Scan# 1628
Delta R.T. 0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.2	24.4
179	15.7	12.6	19.0

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





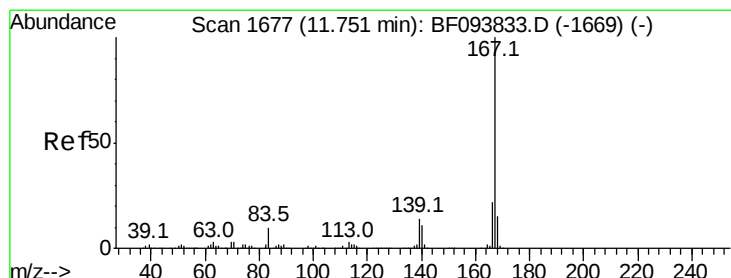
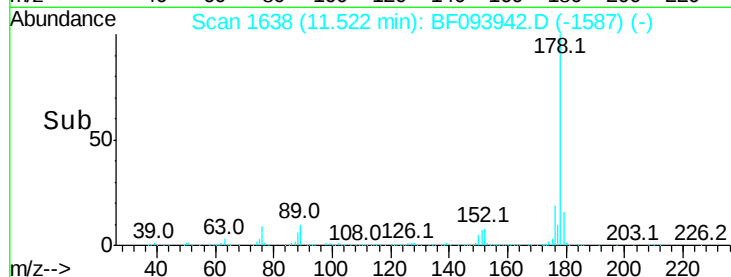
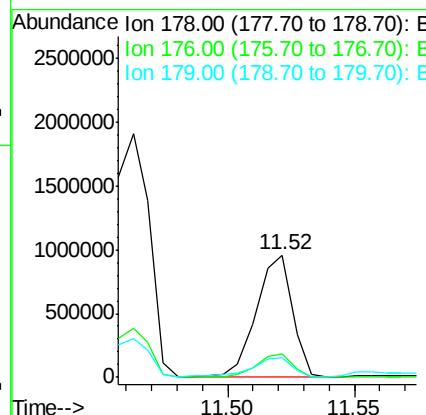
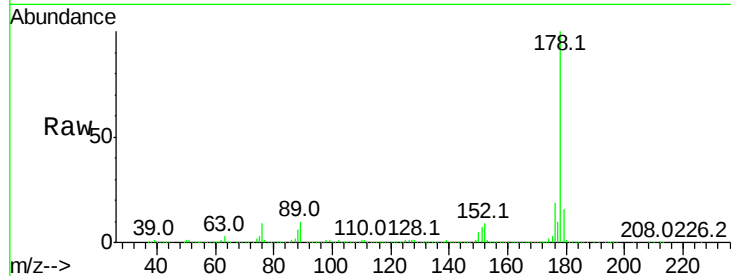
#71
 Anthracene
 Concen: 31.40 ng
 RT: 11.52 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.7	12.7	19.1

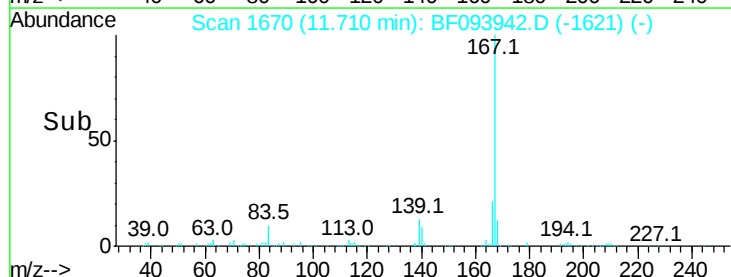
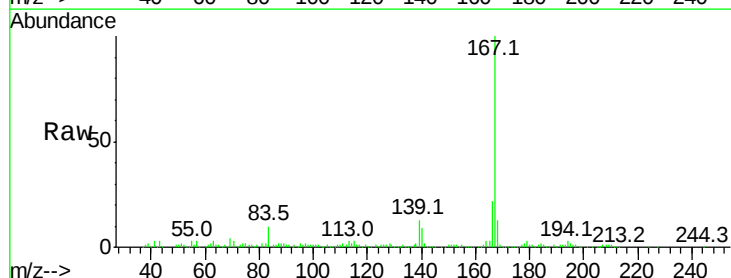
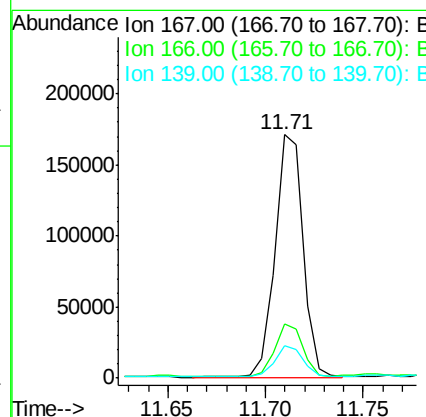
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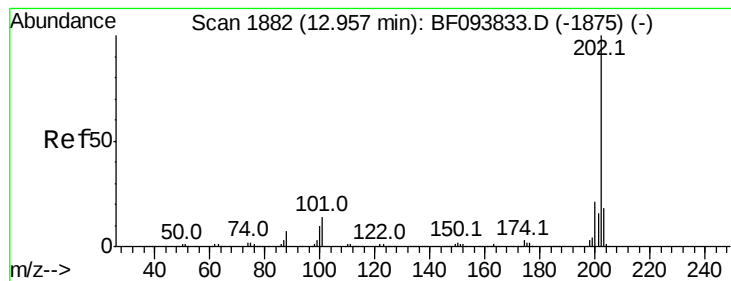
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#72
 Carbazole
 Concen: 5.46 ng
 RT: 11.71 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: BF093942.D
 Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	18.1	27.1
139	13.1	11.7	17.5





#74

Fluoranthene

Concen: 52.53 ng

RT: 12.92 min Scan# 1876

Delta R.T. 0.00 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

ClientSampleId :

WC-COMP-10DL

Tot Ion:202 Resp: 1576308

Ion Ratio Lower Upper

202 100

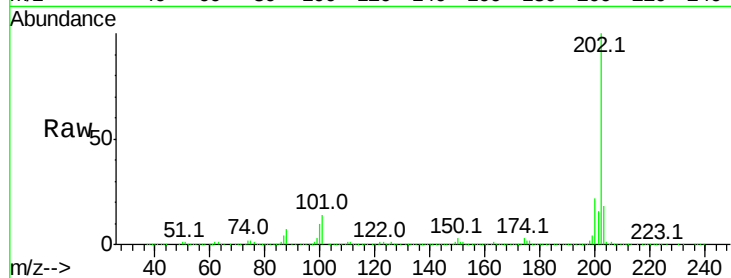
101 14.1 0.0 33.2

203 18.2 0.0 38.1

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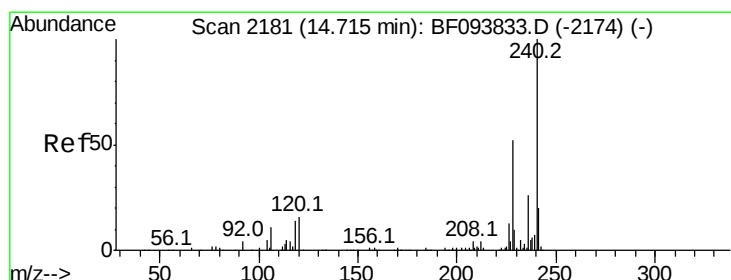
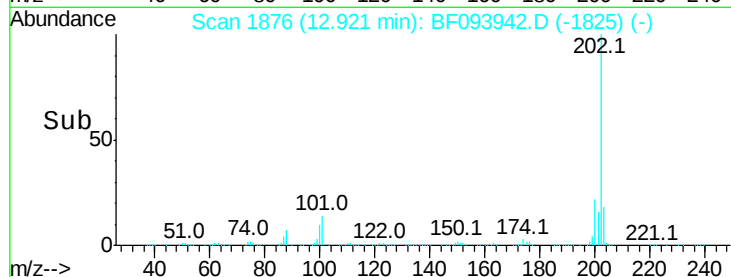
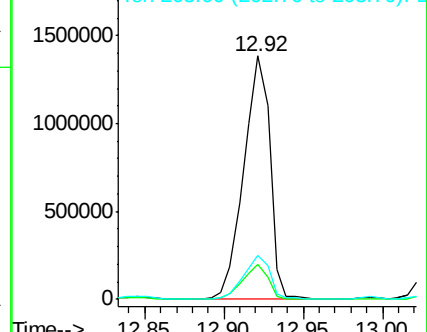
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.67 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Tgt Ion:240 Resp: 322605

Ion Ratio Lower Upper

240 100

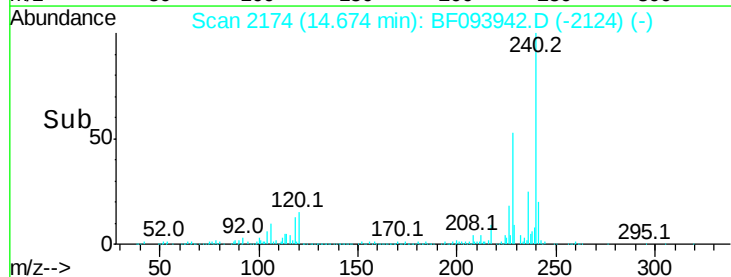
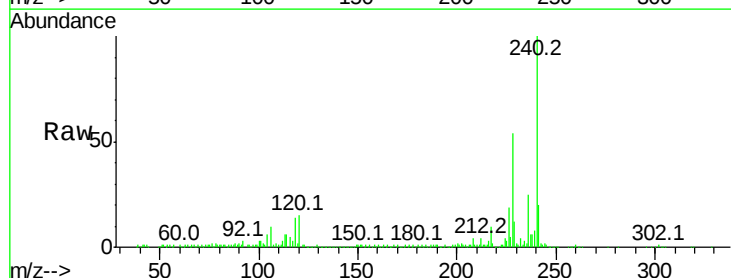
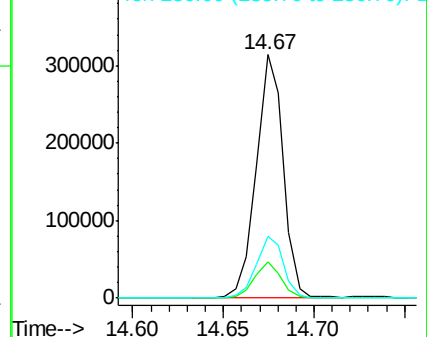
120 15.1 5.8 8.8#

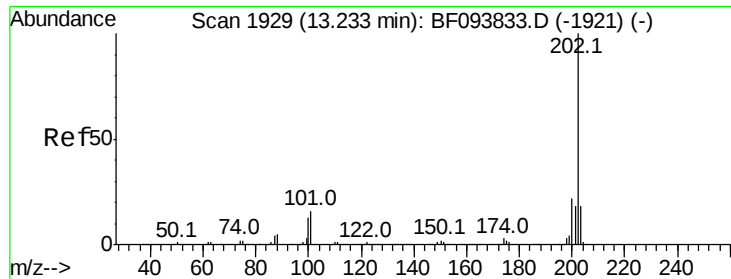
236 25.5 20.5 30.7

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





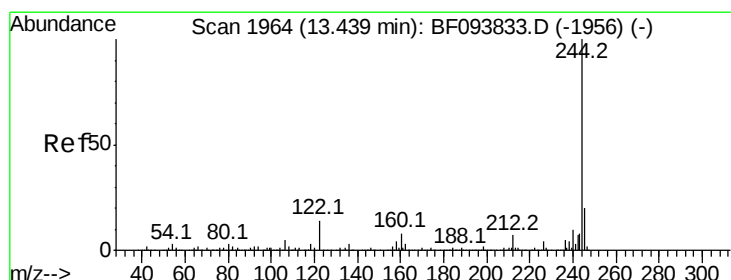
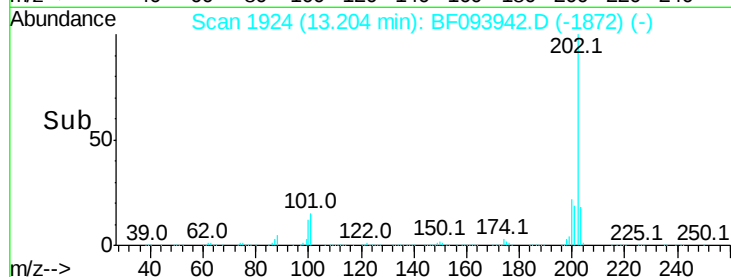
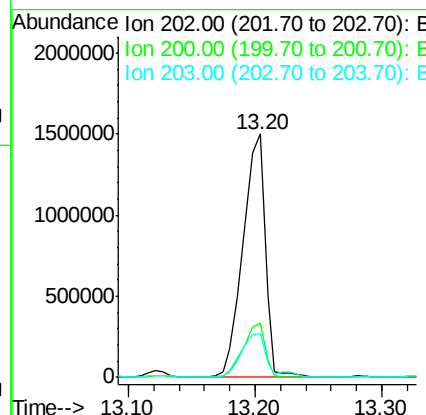
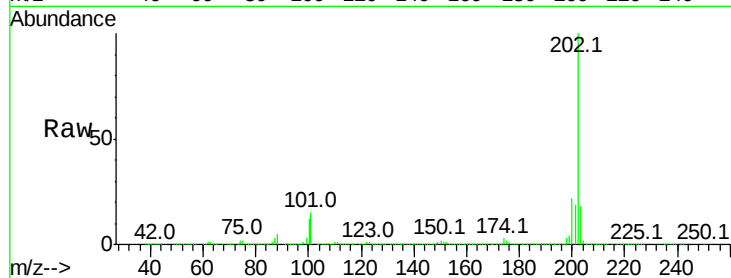
#77
Pvrene
Concen: 77.42 ng
RT: 13.20 min Scan# 1924
Delta R.T. 0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion:202 Resp: 1812711
Ion Ratio Lower Upper
202 100
200 22.4 17.6 26.4
203 17.9 14.4 21.6

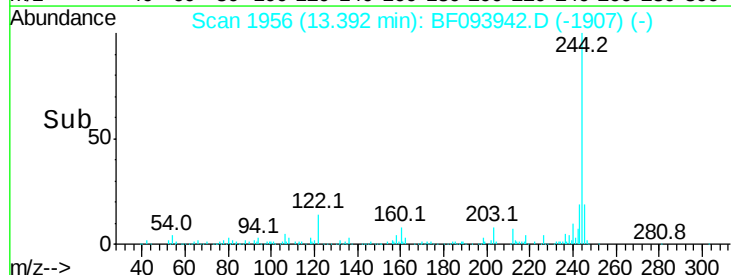
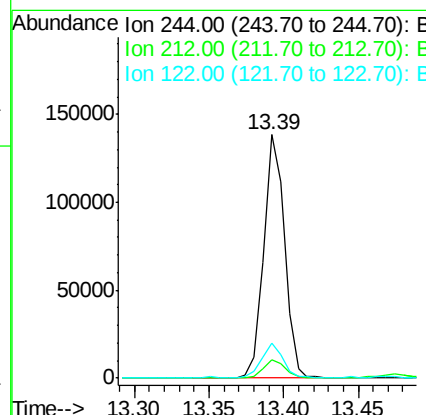
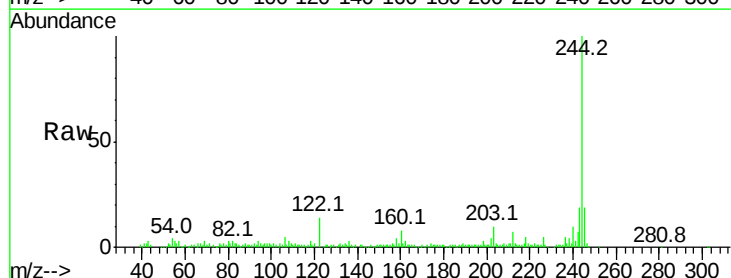
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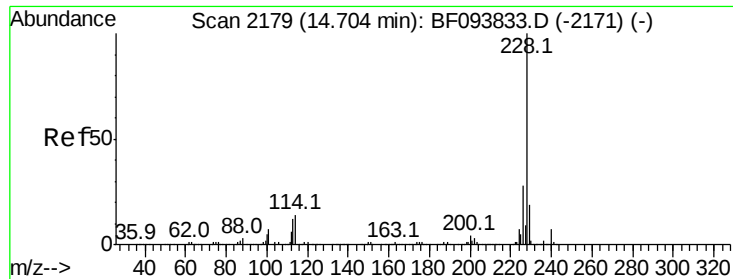
mohammad
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#78
Terphenyl-d14
Concen: 9.19 ng
RT: 13.39 min Scan# 1956
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion:244 Resp: 132284
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 14.4 10.3 15.5





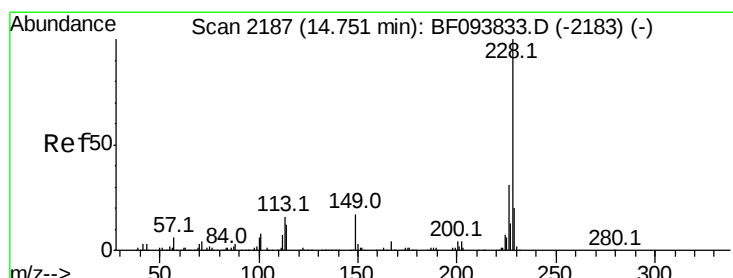
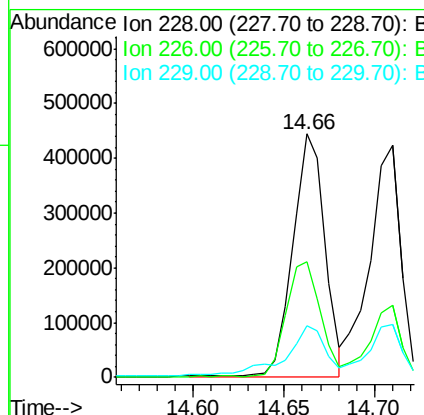
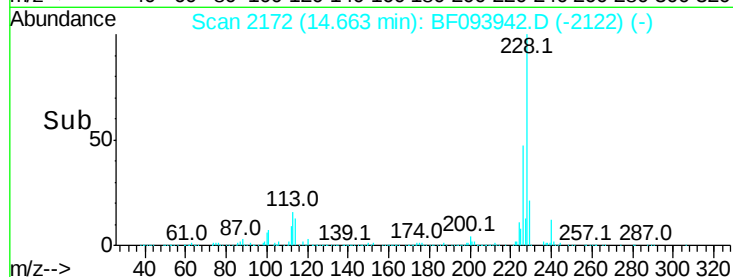
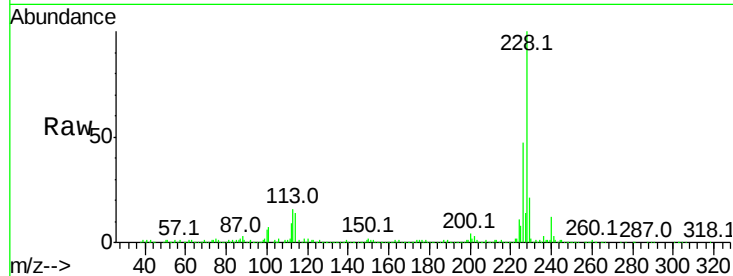
#80
Benzo(a)anthracene
Concen: 29.28 ng
RT: 14.66 min Scan# 2172
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	47.3	22.6	33.8#
229	21.3	16.3	24.5

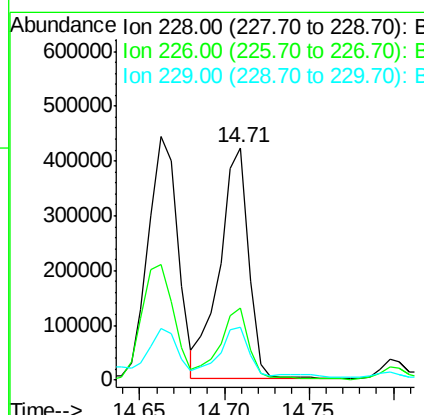
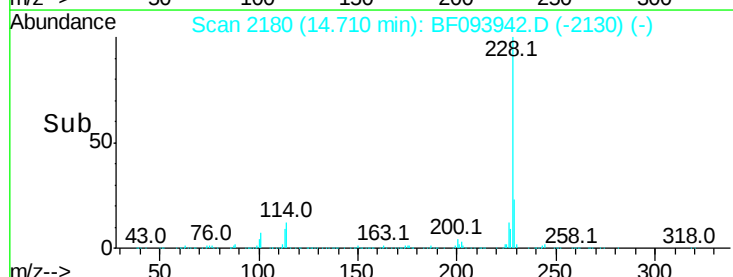
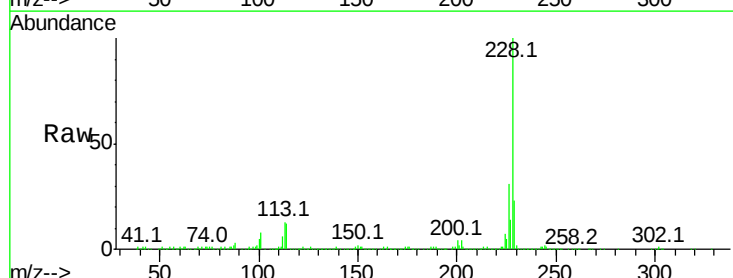
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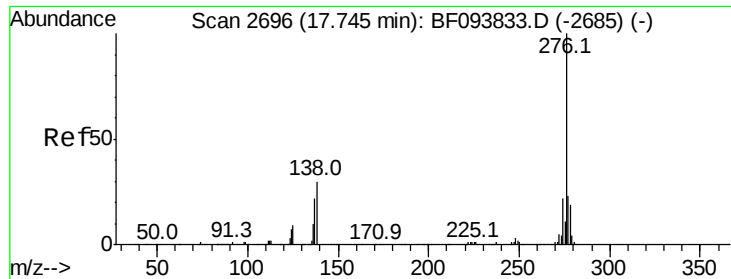
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#82
Chrysene
Concen: 29.01 ng
RT: 14.71 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	22.8	15.8	23.6





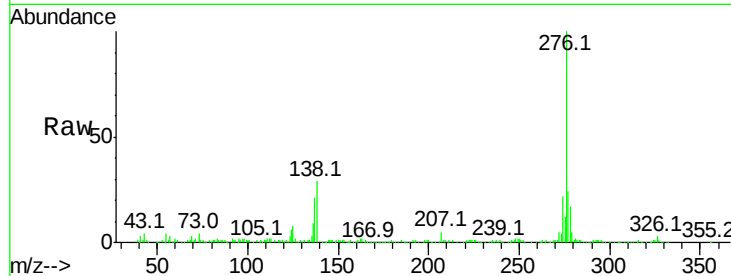
#85
Indeno(1,2,3-cd)pyrene
Concen: 16.87 ng
RT: 17.69 min Scan# 2686
Delta R.T. 0.00 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

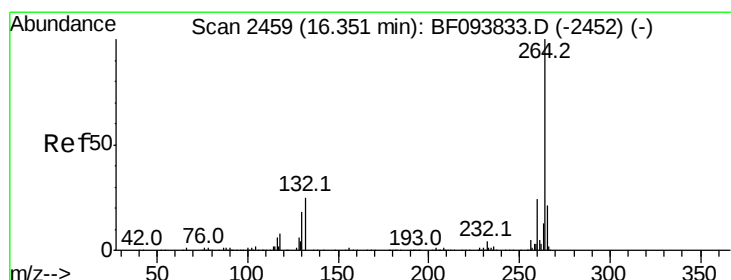
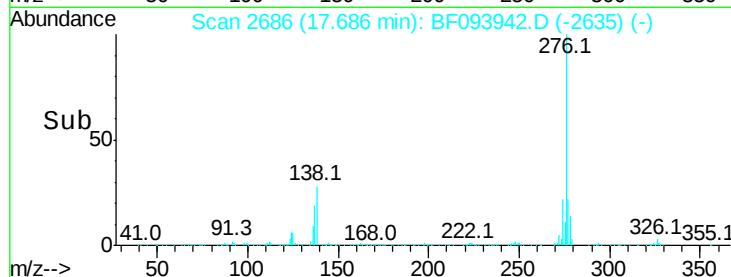
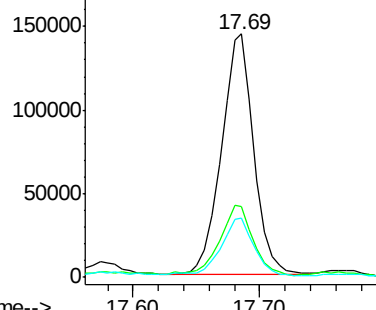
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.6	27.8	41.6
277	24.8	20.2	30.4

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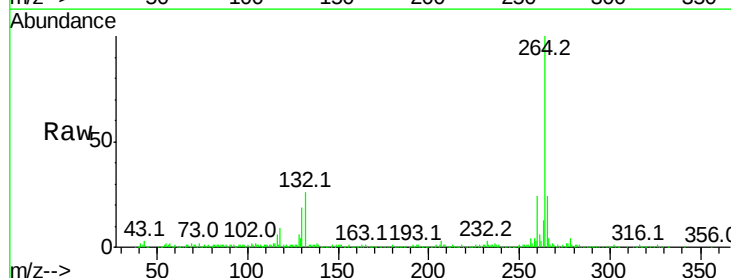


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

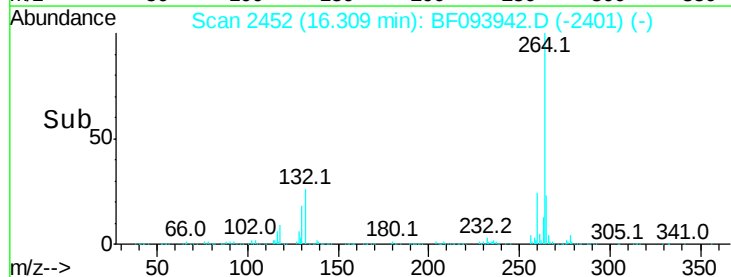
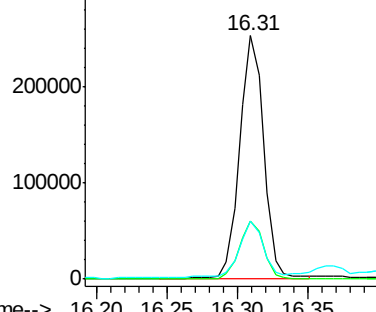


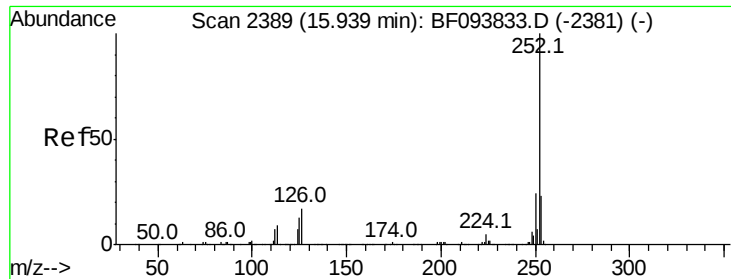
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.31 min Scan# 2452
Delta R.T. 0.00 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	23.6	17.2	25.8



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





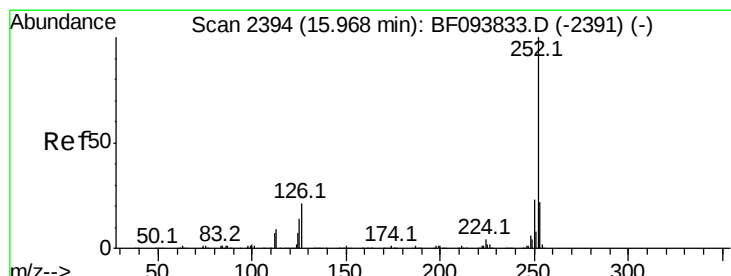
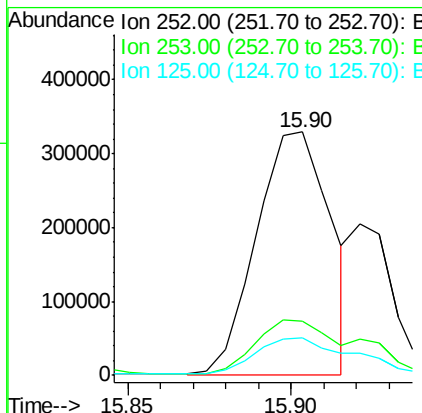
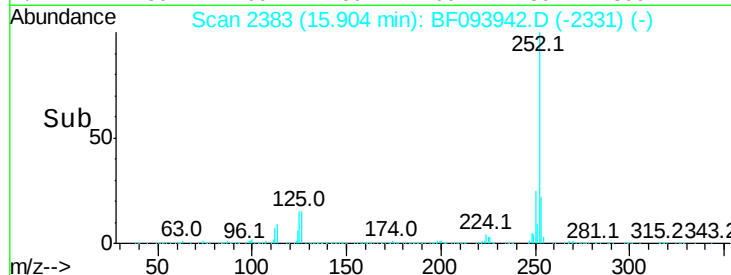
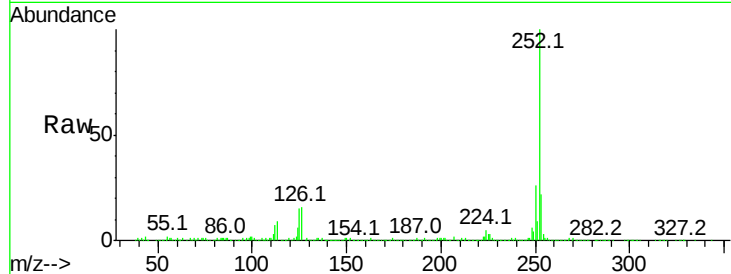
#87
Benzo(b)fluoranthene
Concen: 28.03 ng m
RT: 15.90 min Scan# 2383
Delta R.T. 0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Instrument :
BNA_F
ClientSampleId :
WC-COMP-10DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	15.4	9.8	14.8

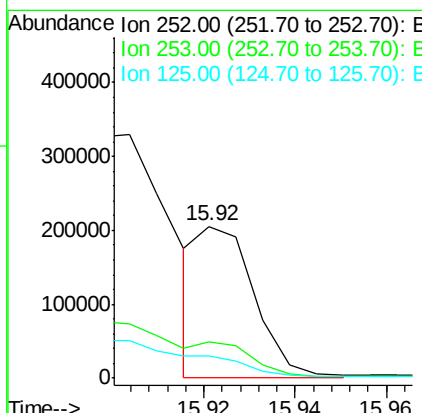
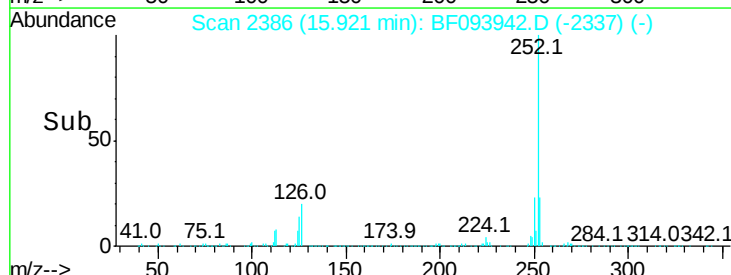
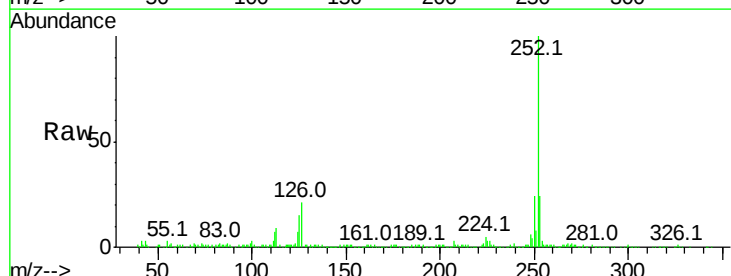
Manual Integrations
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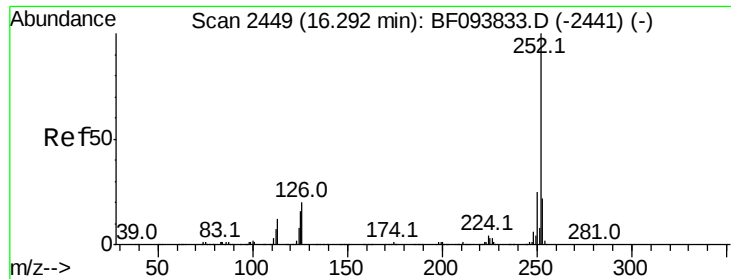
mohammad
3/28/2017 3:43:00 PM



#88
Benzo(k)fluoranthene
Concen: 9.74 ng m
RT: 15.92 min Scan# 2386
Delta R.T. -0.01 min
Lab File: BF093942.D
Acq: 27 Mar 2017 14:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.4	27.6
125	14.6	13.1	19.7





#89

Benzo(a)pyrene

Concen: 28.51 ng

RT: 16.25 min Scan# 2442

Delta R.T. 0.00 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

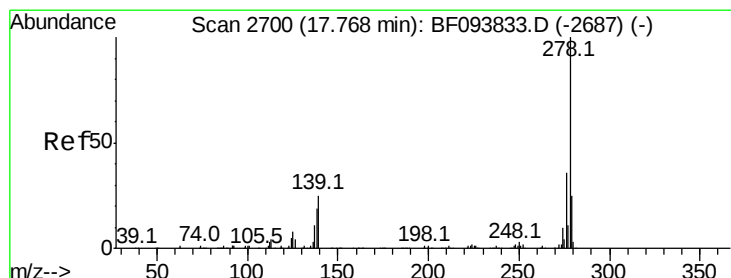
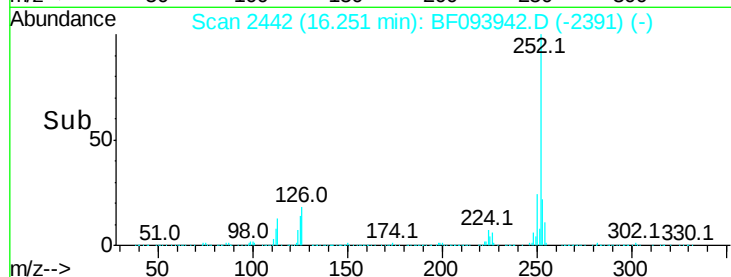
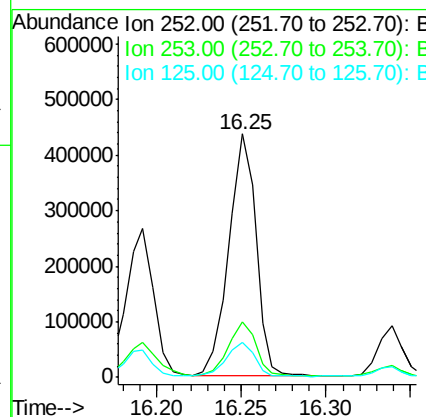
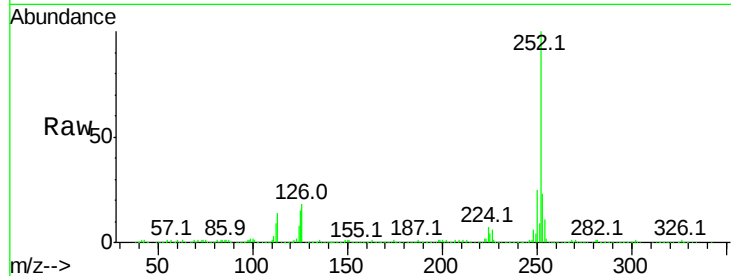
ClientSampleId :

WC-COMP-10DL

Tot Ion:	252	Resp:	490095
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.5	26.3
125	14.6	11.0	16.4

Manual Integrations
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mohammad
3/28/2017 3:43:00 PM



#90

Dibenzo(a,h)anthracene

Concen: 3.80 ng

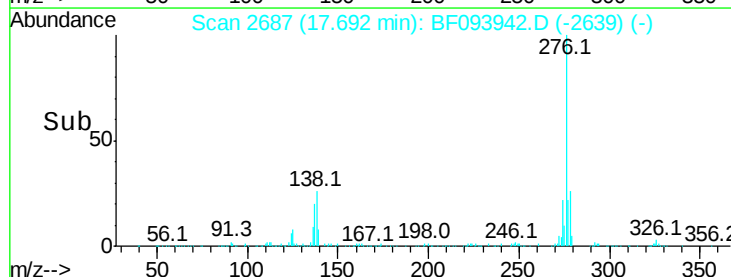
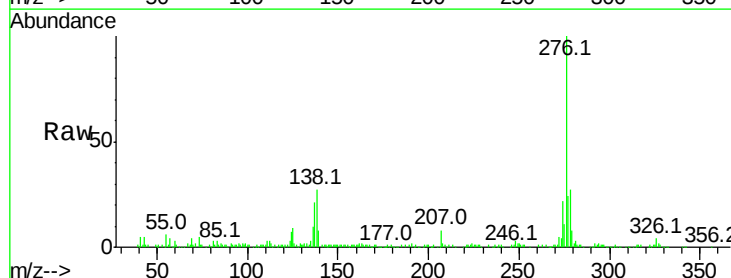
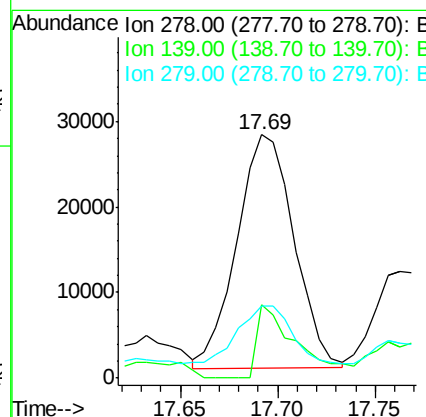
RT: 17.69 min Scan# 2687

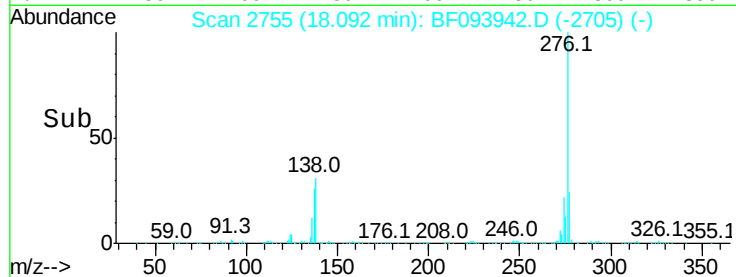
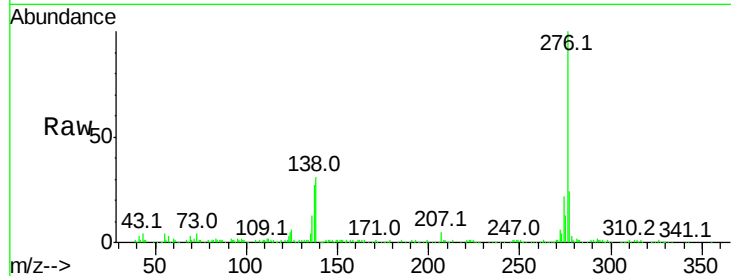
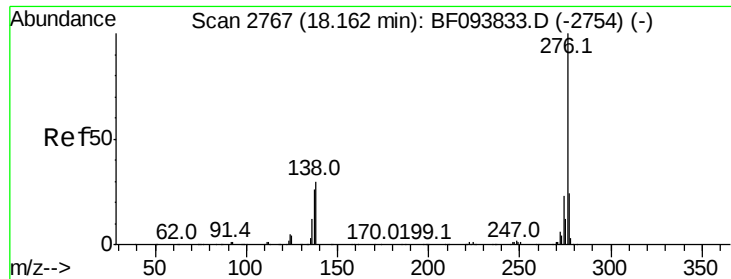
Delta R.T. -0.02 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Tgt Ion:	278	Resp:	55276
Ion Ratio	Lower	Upper	
278	100		
139	29.9	16.6	24.8#
279	29.7	19.3	28.9#





#91

Benzo(a,h,i)perylene

Concen: 19.01 ng

RT: 18.09 min Scan# 2755

Delta R.T. -0.01 min

Lab File: BF093942.D

Acq: 27 Mar 2017 14:16

Instrument :

BNA_F

ClientSampleId :

WC-COMP-10DL

Tot Ion:	276	Resp:	278961
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.6	28.0
138	31.2	25.4	38.0

Manual Integrations
APPROVED

mohammad
3/28/2017 3:43:00 PM

