

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
 Data File : BF093971.D
 Acq On : 28 Mar 2017 4:44
 Operator : SJ/MA
 Sample : I2413-02
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TS-02

Manual Integrations
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Quant Time: Mar 28 06:59:39 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	160651	20.00	ng	0.00
21) Naphthalene-d8	7.45	136	541350	20.00	ng	0.00
38) Acenaphthene-d10	9.59	164	293312	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	470912	20.00	ng	-0.01
75) Chrysene-d12	14.66	240	333597	20.00	ng	-0.02
86) Perylene-d12	16.30	264	297087	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.48	112	489071	51.42	ng	0.00
7) Phenol-d6	5.55	99	1246728	105.95	ng	0.00
23) Nitrobenzene-d5	6.61	82	644137	67.90	ng	0.00
41) 2,4,6-Tribromophenol	10.56	330	229594	99.06	ng	-0.02
44) 2-Fluorobiphenyl	8.77	172	1301038	67.66	ng	-0.01
78) Terphenyl-d14	13.39	244	857253	57.60	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.49	128	3721140	142.96	ng	97
37) 2-Methylnaphthalene	8.33	142	2284653	131.67	ng	99
45) 1,1'-Biphenyl	8.89	154	129510	5.47	ng	99
49) Dimethylphthalate	9.26	163	96365	4.62	ng	99
51) Acenaphthene	9.63	154	465982	25.95	ng	99
54) Dibenzofuran	9.84	168	537224	21.97	ng	99
57) Fluorene	10.26	166	578553	28.54	ng	99
70) Phenanthrene	11.44	178	1693750	64.66	ng	99
71) Anthracene	11.50	178	233769	8.67	ng	97
74) Fluoranthene	12.91	202	696423	25.96	ng	99
77) Pyrene	13.18	202	509066	21.03	ng	98
80) Benzo(a)anthracene	14.65	228	110763	5.69	ng	97
82) Chrysene	14.69	228	114127	6.32	ng	97
85) Indeno(1,2,3-cd)pyrene	17.66	276	37908	2.42	ng	96
87) Benzo(b)fluoranthene	15.88	252	116642m	6.41	ng	
89) Benzo(a)pyrene	16.23	252	69977	4.17	ng	# 92
91) Benzo(a,h,i)perylene	18.06	276	37925	2.65	ng	97

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

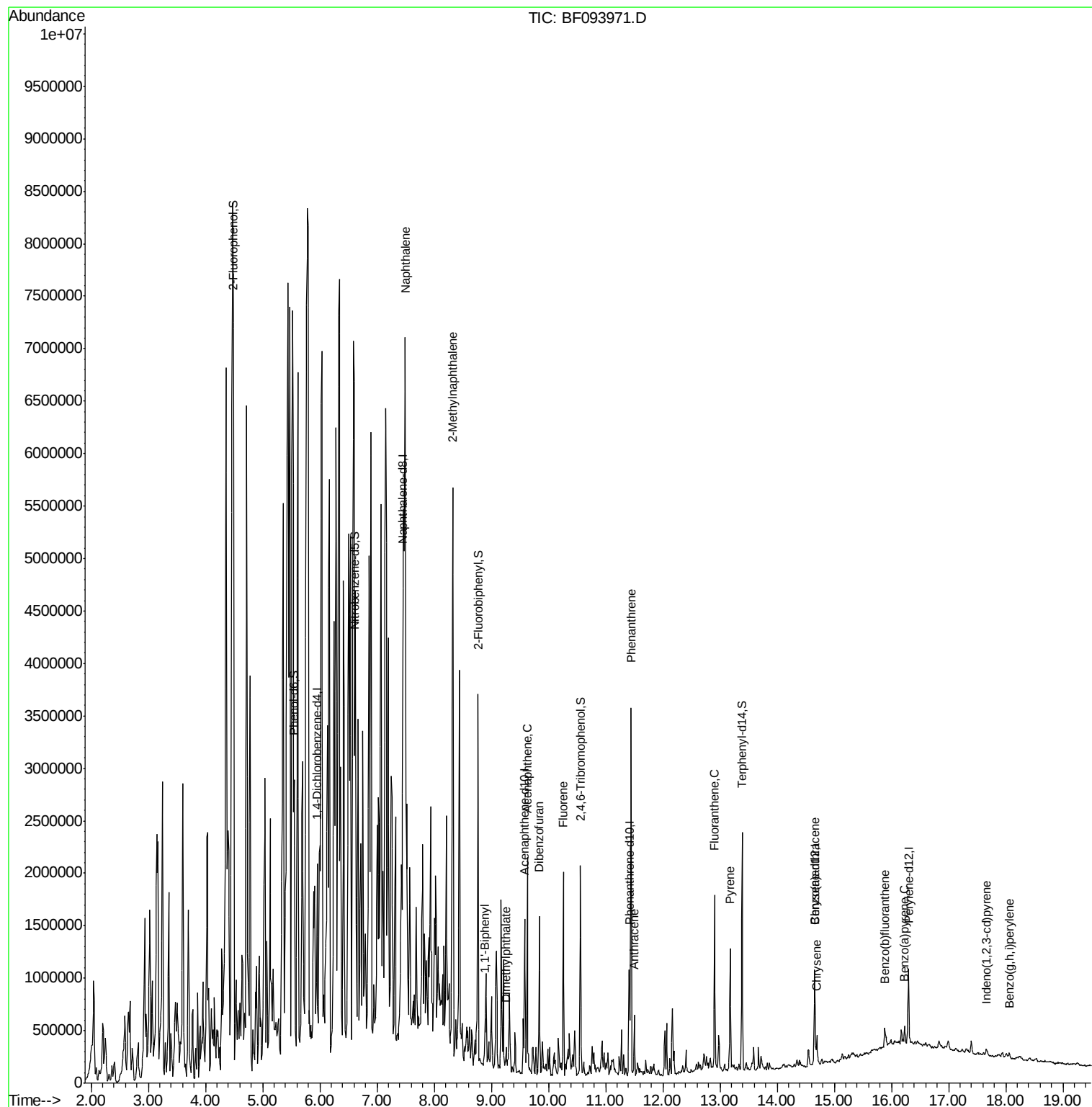
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032717\
Data File : BF093971.D
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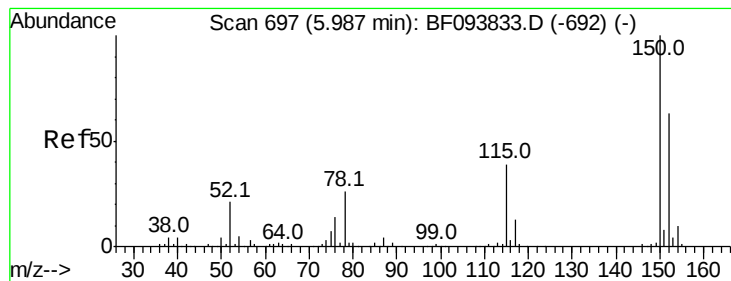
Instrument :
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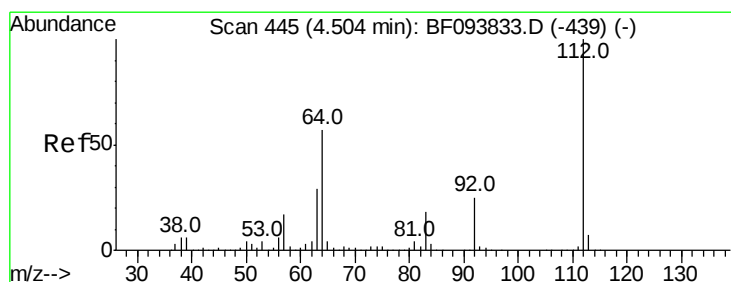
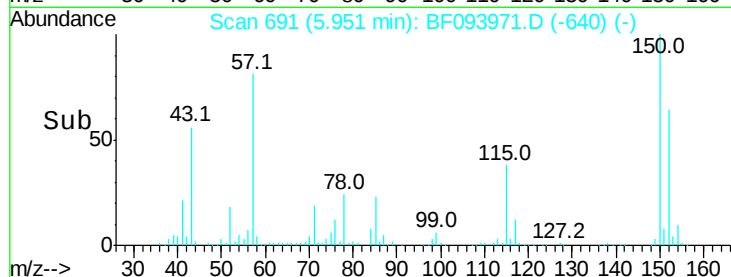
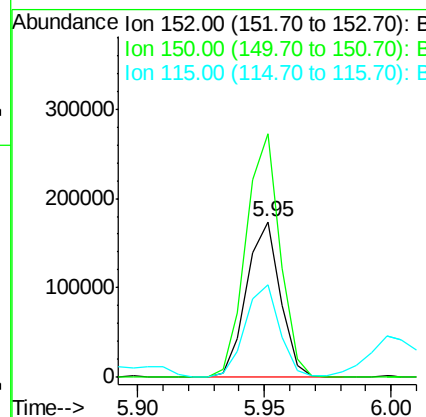
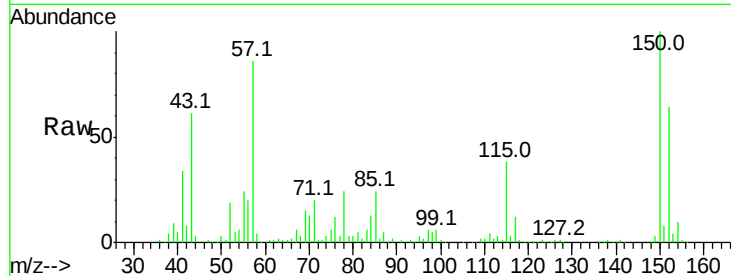
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.95 min Scan# 691
Delta R.T. -0.00 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampled :
TS-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	126.2	189.2
115	60.0	52.2	78.2

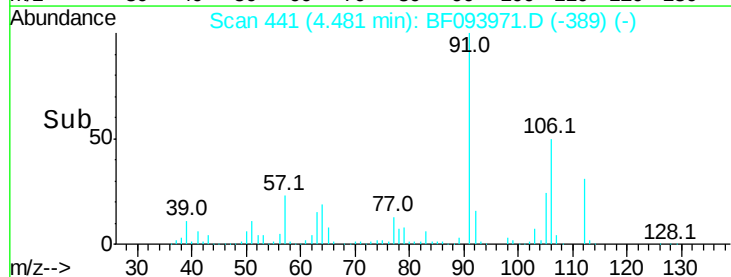
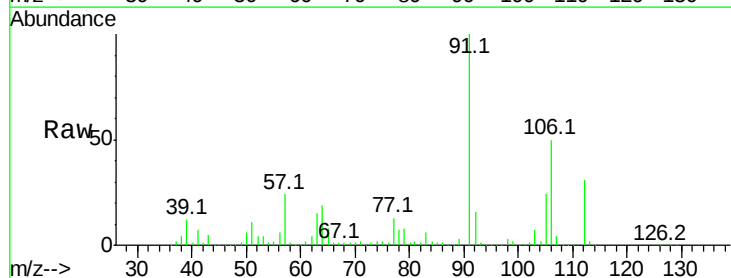
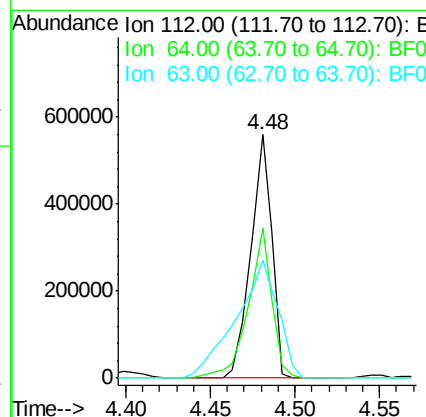
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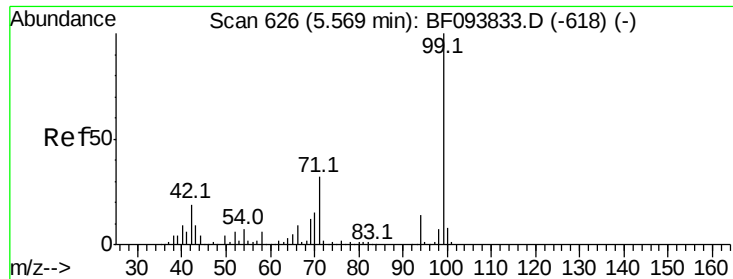
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#5
2-Fluorophenol
Concen: 51.42 ng
RT: 4.48 min Scan# 441
Delta R.T. 0.01 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	46.0	69.0
63	48.8	23.4	35.0





#7

Phenol-d6

Concen: 105.95 ng

RT: 5.55 min Scan# 623

Delta R.T. 0.00 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Instrument :

BNA_F

ClientSampled :

TS-02

Tot Ion: 99 Resp: 1246728

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

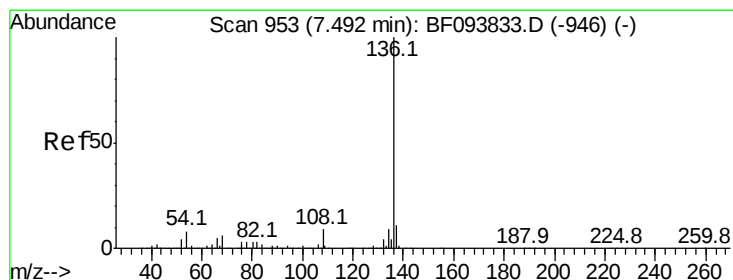
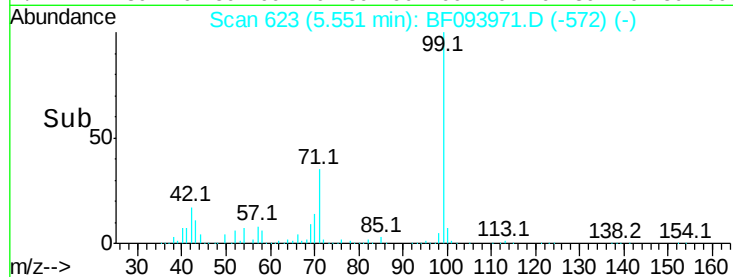
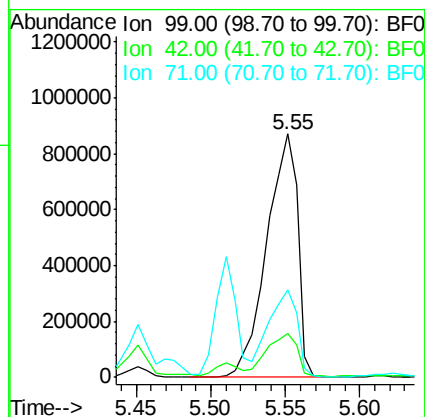
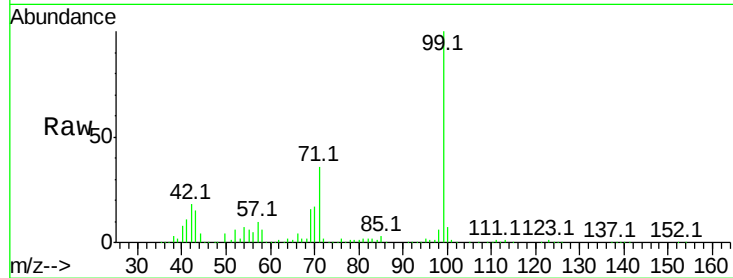
71 35.7 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.45 min Scan# 946

Delta R.T. -0.01 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Tgt Ion: 136 Resp: 541350

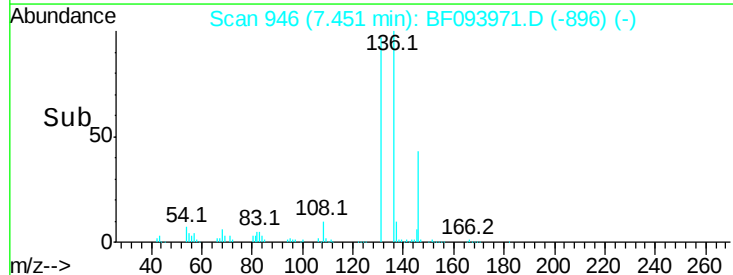
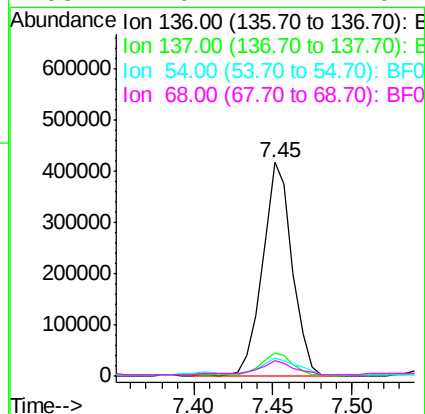
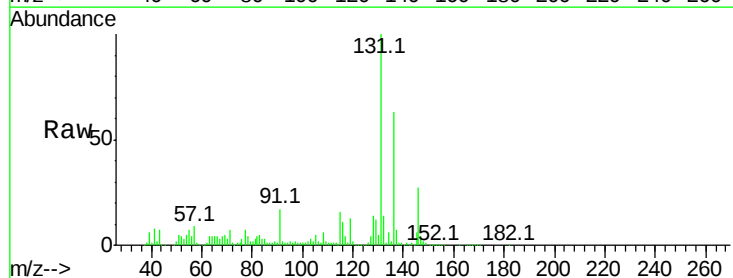
Ion Ratio Lower Upper

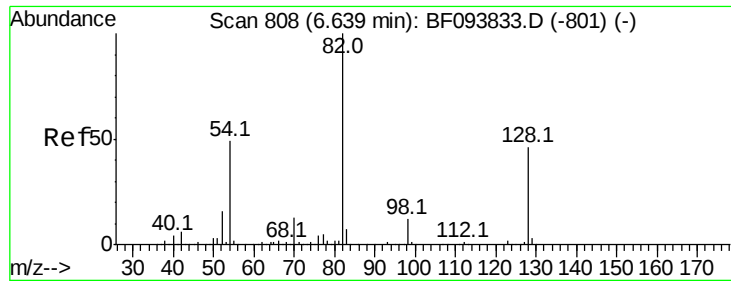
136 100

137 10.5 8.5 12.7

54 8.6 4.9 7.3#

68 7.0 4.1 6.1#





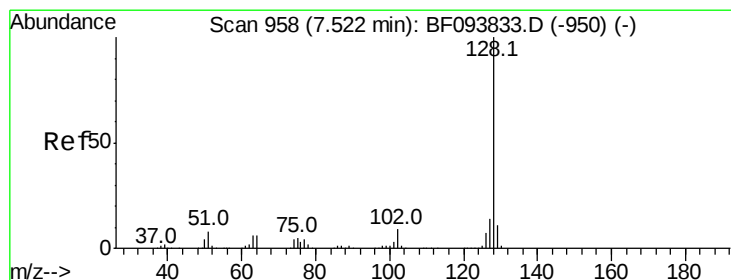
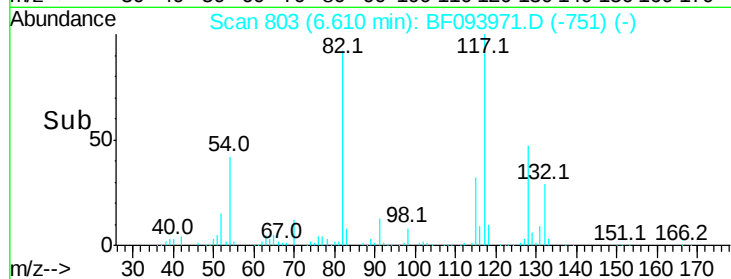
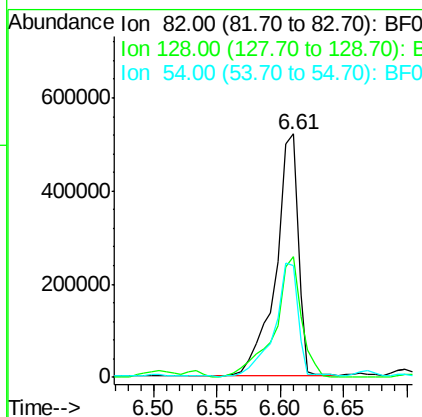
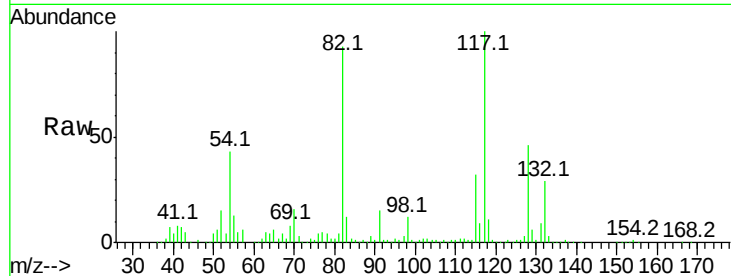
#23
Nitrobenzene-d5
Concen: 67.90 ng
RT: 6.61 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampled :
TS-02

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.7	34.0	51.0
54	46.1	42.2	63.2

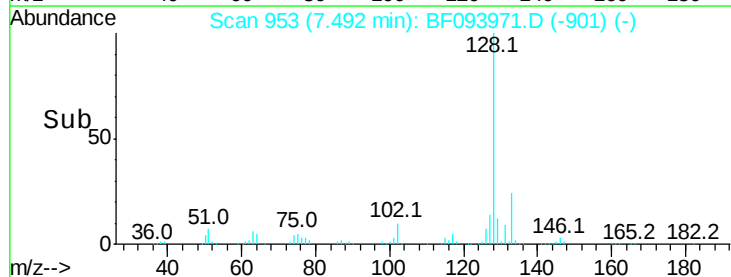
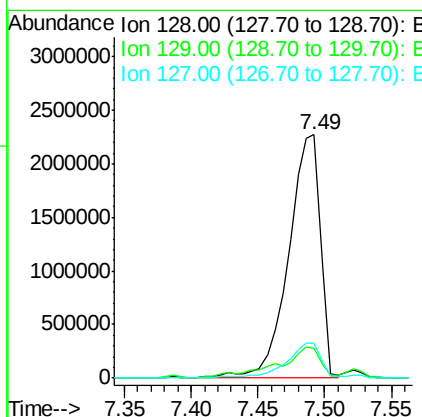
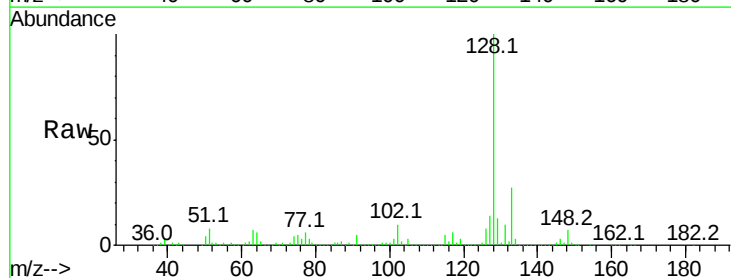
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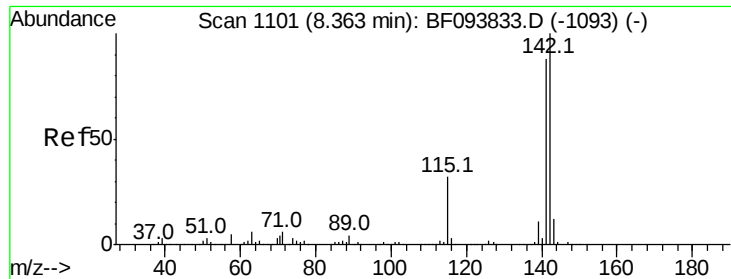
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#31
Naphthalene
Concen: 142.96 ng
RT: 7.49 min Scan# 953
Delta R.T. 0.01 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.0	13.6
127	14.4	10.8	16.2





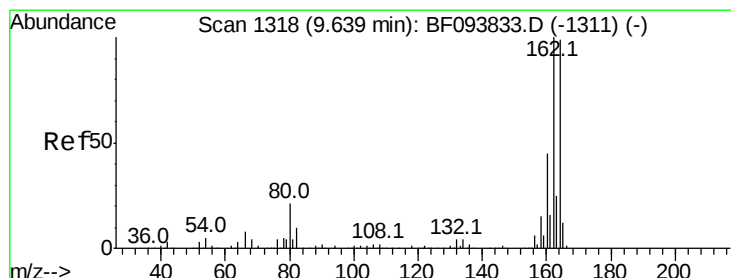
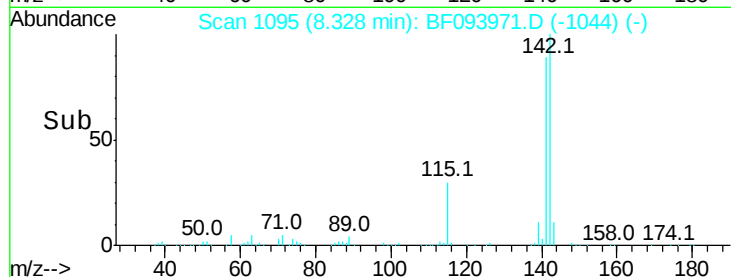
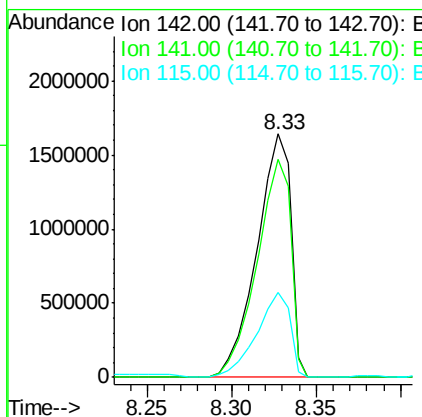
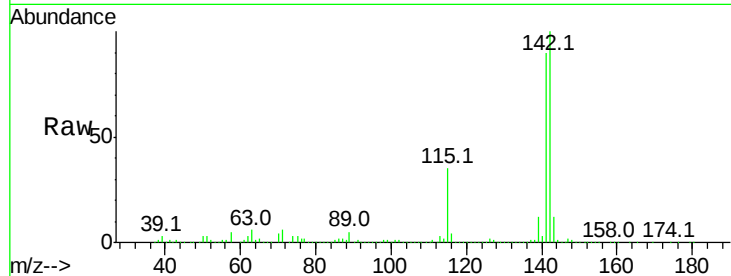
#37
2-Methylnaphthalene
Concen: 131.67 ng
RT: 8.33 min Scan# 1095
Delta R.T. -0.00 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampleId :
TS-02

Tot Ion:142 Resp: 2284653
Ion Ratio Lower Upper
142 100
141 89.8 71.3 106.9
115 34.8 27.1 40.7

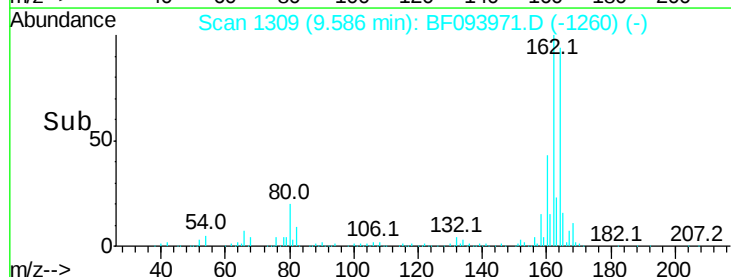
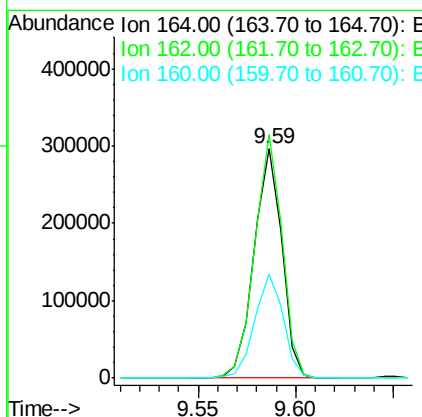
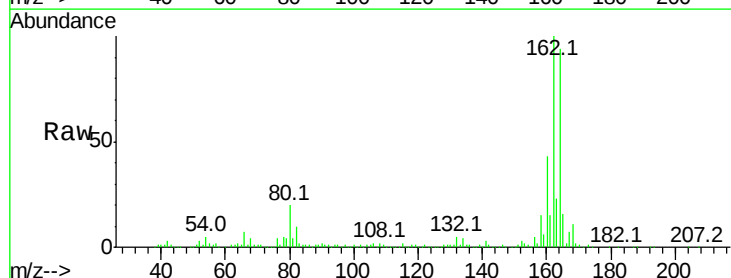
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.59 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion:164 Resp: 293312
Ion Ratio Lower Upper
164 100
162 106.2 82.6 123.8
160 45.6 36.2 54.2





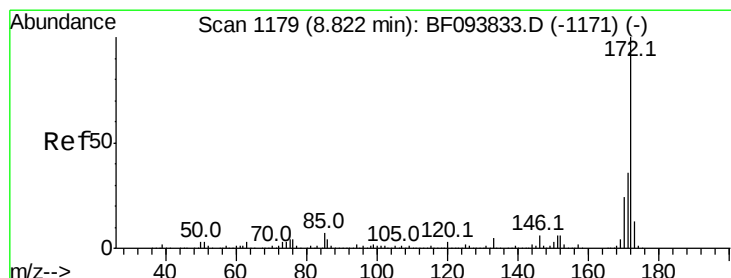
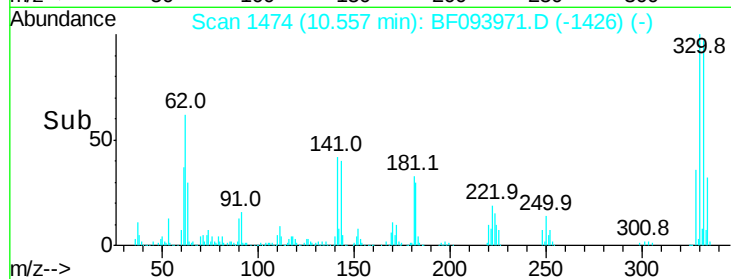
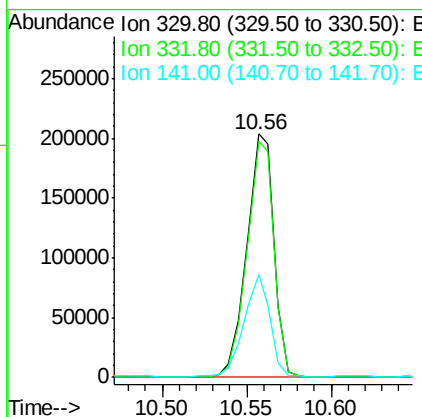
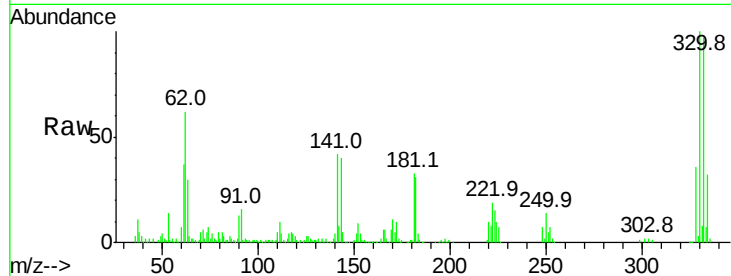
#41
 2,4,6-Tribromophenol
 Concen: 99.06 ng
 RT: 10.56 min Scan# 1474
 Delta R.T. -0.02 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Instrument :
 BNA_F
 ClientSampled :
 TS-02

Tot Ion	Ratio	Resp	Lower	Upper
330	100	229594		
332	96.4	76.6	115.0	
141	40.0	31.4	47.2	

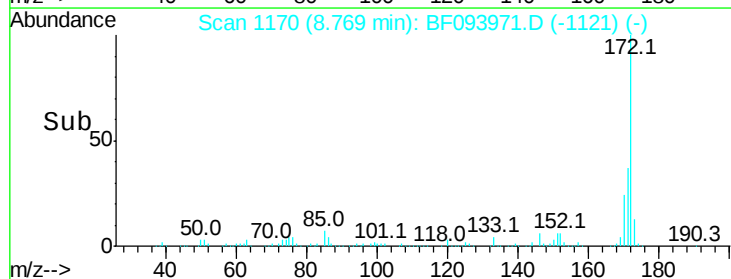
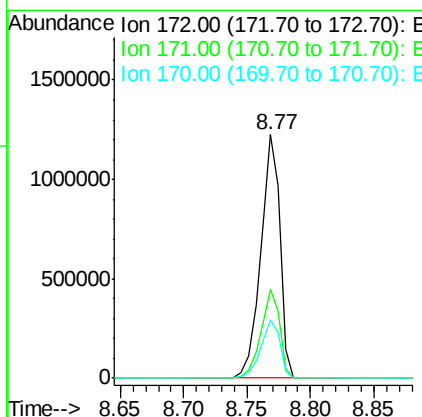
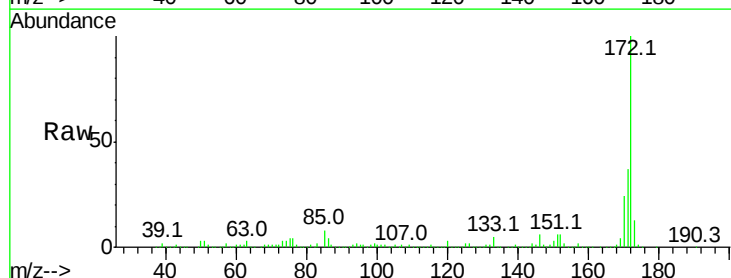
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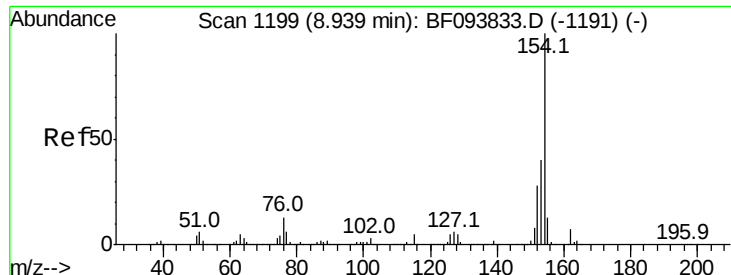
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#44
 2-Fluorobiphenyl
 Concen: 67.66 ng
 RT: 8.77 min Scan# 1170
 Delta R.T. -0.01 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1301038		
171	36.5	29.6	44.4	
170	24.0	19.8	29.8	





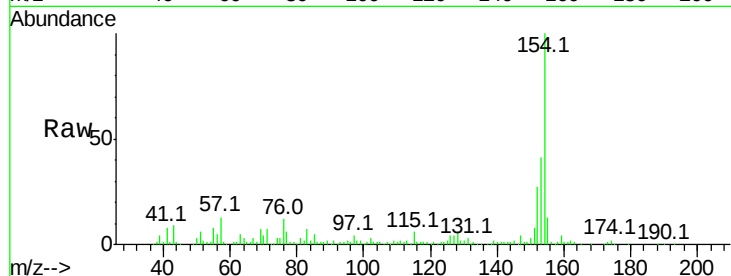
#45
 1,1'-Biphenyl
 Concen: 5.47 ng
 RT: 8.89 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Instrument :
 BNA_F
 ClientSampleId :
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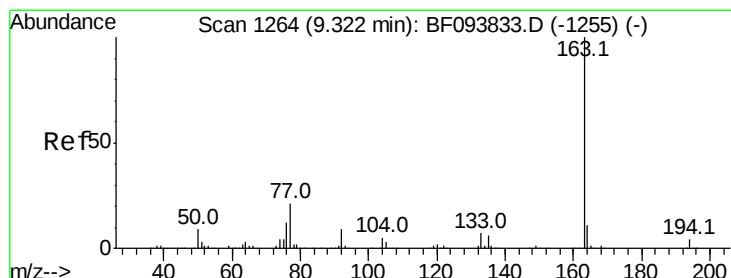
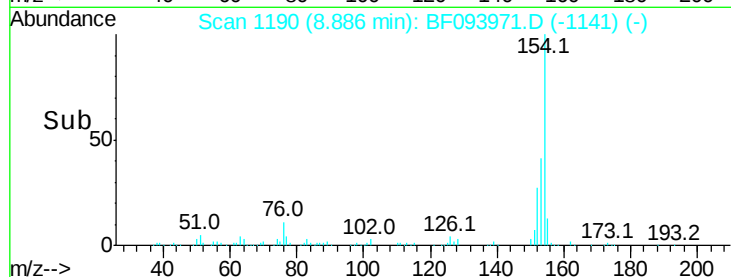
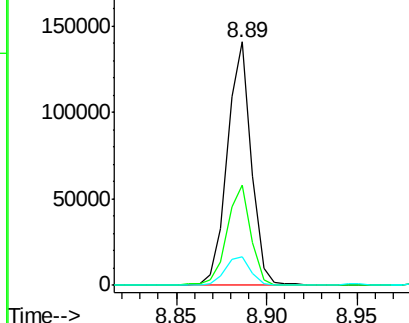
Tot Ion:	154	Resp:	129510
Ion Ratio	Lower	Upper	
154	100		
153	41.0	21.2	61.2
76	11.9	0.0	29.9

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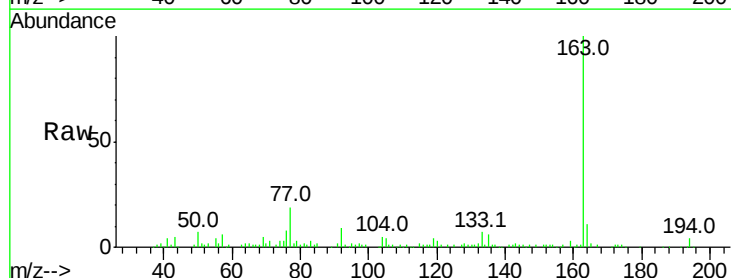


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

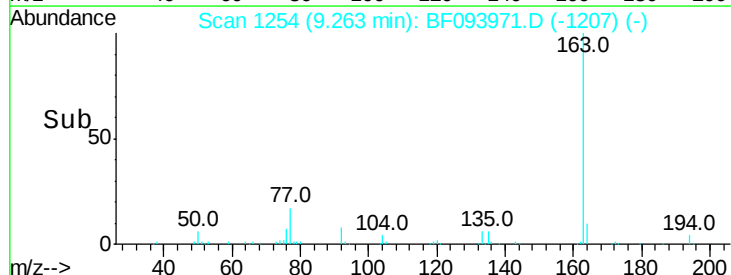
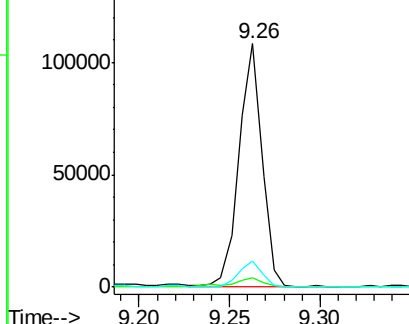


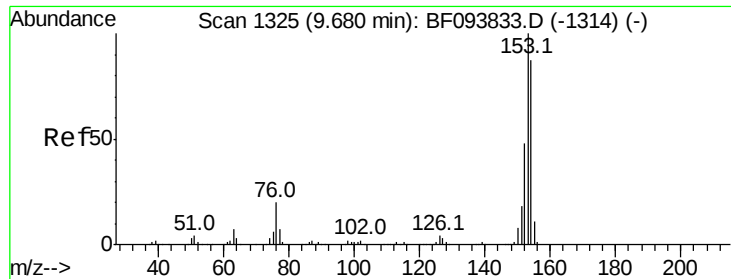
#49
 Dimethylphthalate
 Concen: 4.62 ng
 RT: 9.26 min Scan# 1254
 Delta R.T. -0.02 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Tgt Ion:	163	Resp:	96365
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	10.7	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 25.95 ng

RT: 9.63 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Instrument :

BNA_F

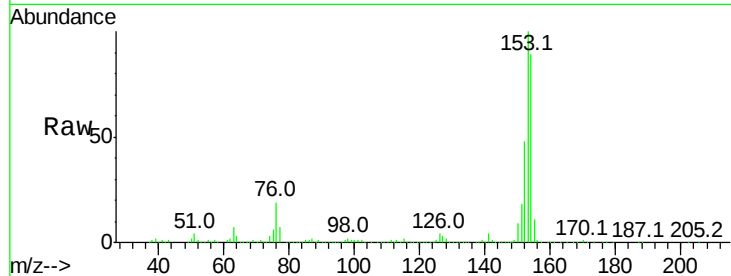
ClientSampleId :

TS-02

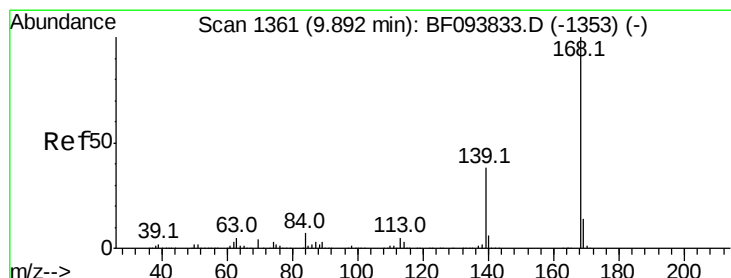
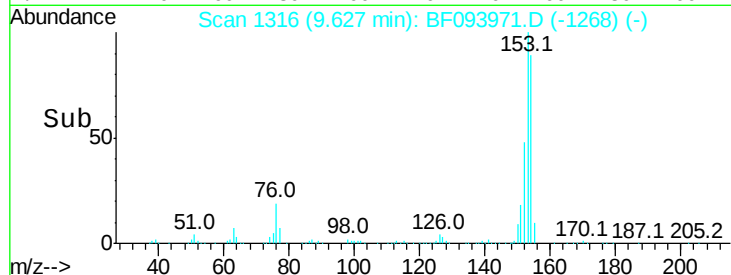
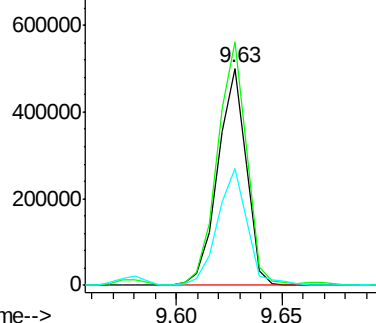
Tot Ion:	154	Resp:	465982
Ion Ratio	Lower	Upper	
154	100		
153	112.2	90.5	135.7
152	54.0	43.6	65.4

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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: 21.97 ng

RT: 9.84 min Scan# 1352

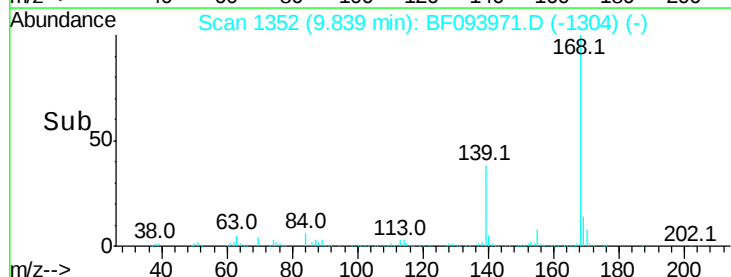
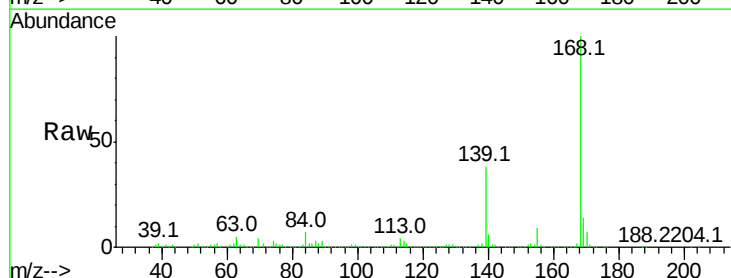
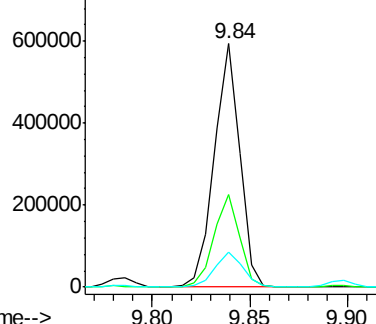
Delta R.T. -0.02 min

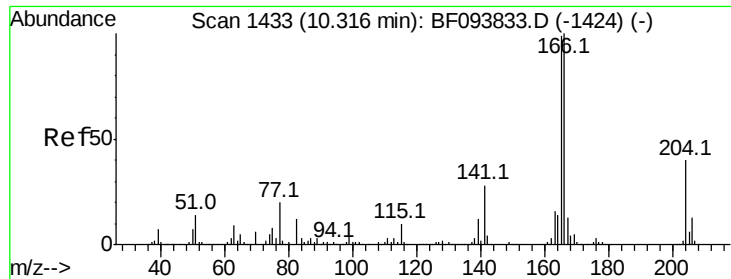
Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Tgt Ion:	168	Resp:	537224
Ion Ratio	Lower	Upper	
168	100		
139	38.0	30.6	45.8
169	14.2	10.8	16.2

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





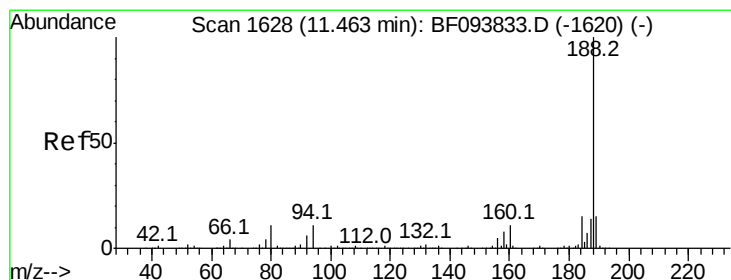
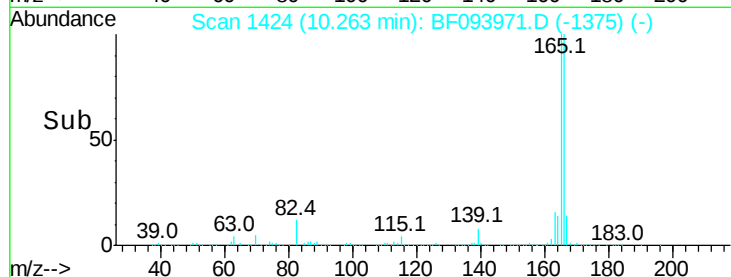
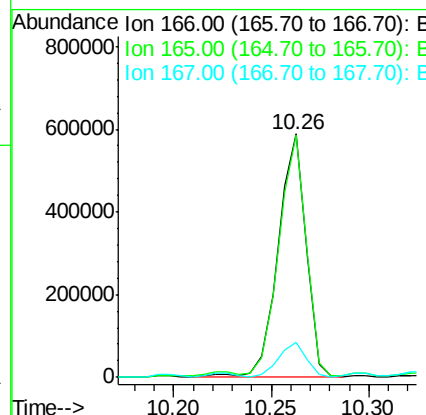
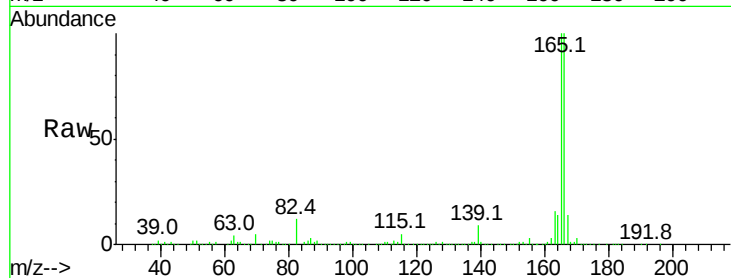
#57
Fluorene
 Concen: 28.54 ng
 RT: 10.26 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Instrument :
 BNA_F
 ClientSampleId :
 TS-02

Tot Ion	Ratio	Resp	Lower	Upper
166	100	578553		
165	99.8	78.8	118.2	
167	14.2	10.6	16.0	

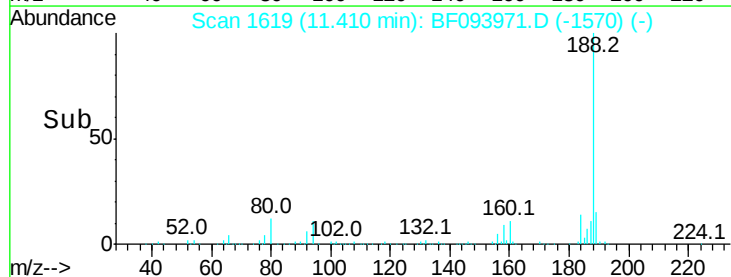
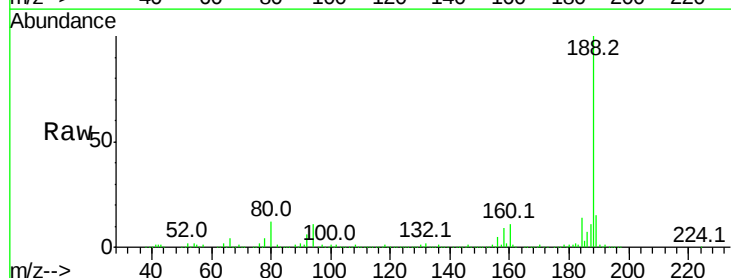
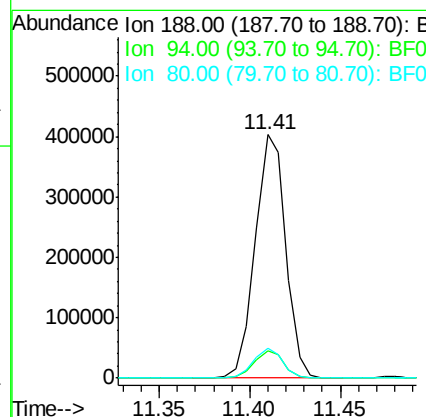
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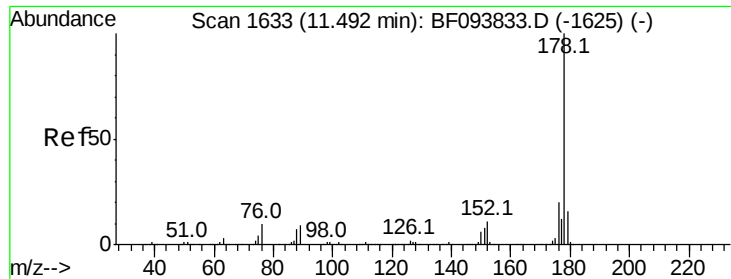
mohammad
 3/28/2017 3:43:31 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.41 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	470912		
94	11.2	9.4	14.2	
80	12.0	10.2	15.2	





#70

Phenanthrene

Concen: 64.66 ng

RT: 11.44 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Instrument :

BNA_F

ClientSampleId :

TS-02

Tot Ion:178 Resp: 1693750

Ion Ratio Lower Upper

178 100

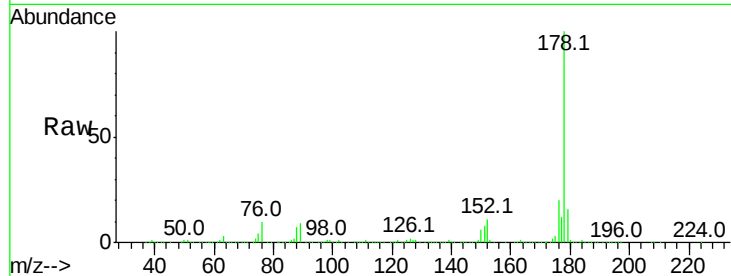
176 19.8 16.2 24.4

179 15.5 12.6 19.0

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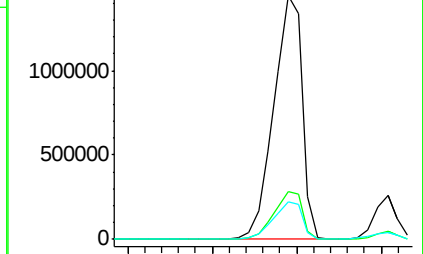
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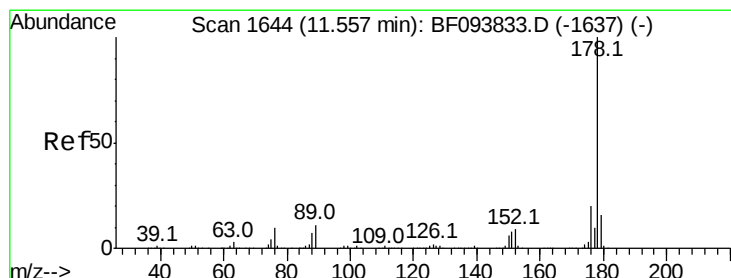
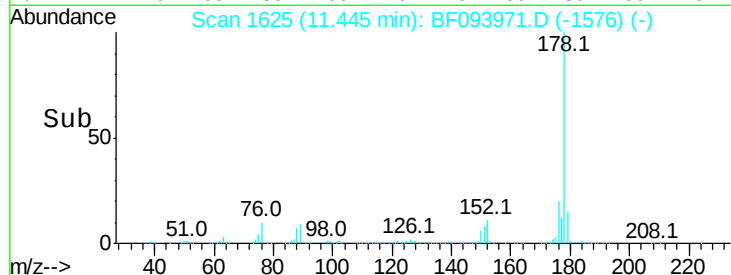
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 11.35 11.40 11.45 11.50



#71

Anthracene

Concen: 8.67 ng

RT: 11.50 min Scan# 1635

Delta R.T. -0.02 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

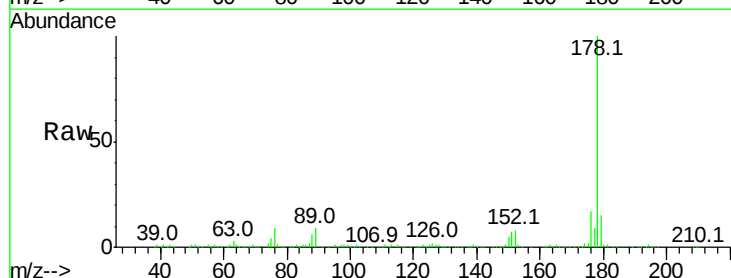
Tgt Ion:178 Resp: 233769

Ion Ratio Lower Upper

178 100

176 17.4 15.8 23.8

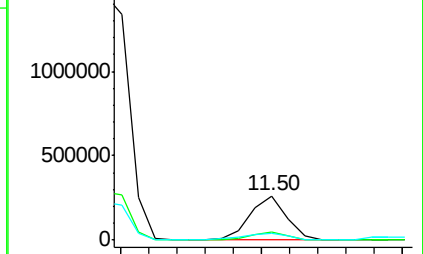
179 15.4 12.7 19.1



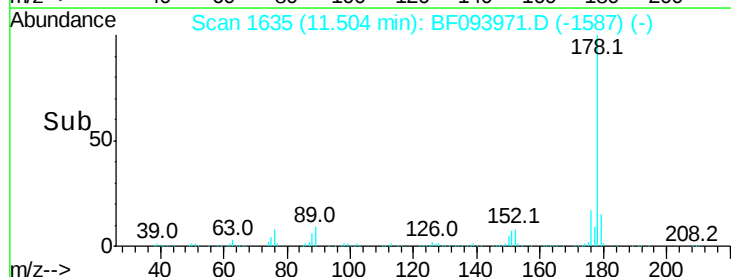
Abundance Ion 178.00 (177.70 to 178.70): E

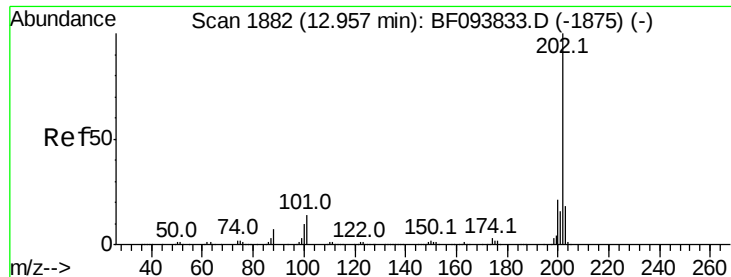
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 11.45 11.50





#74

Fluoranthene

Concen: 25.96 ng

RT: 12.91 min Scan# 1874

Delta R.T. -0.01 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Instrument :

BNA_F

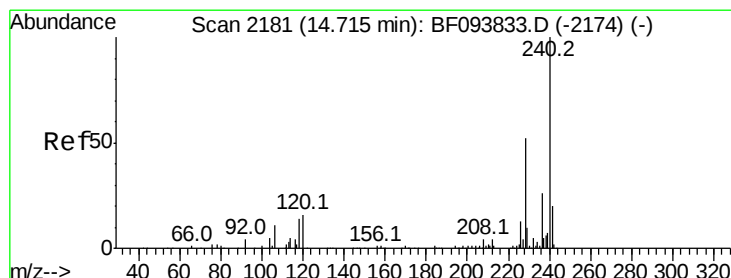
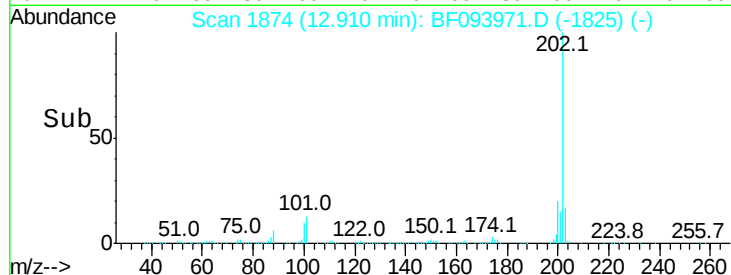
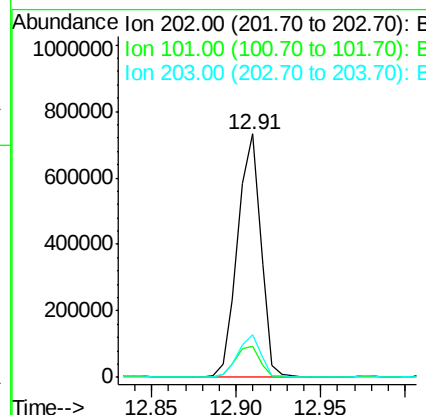
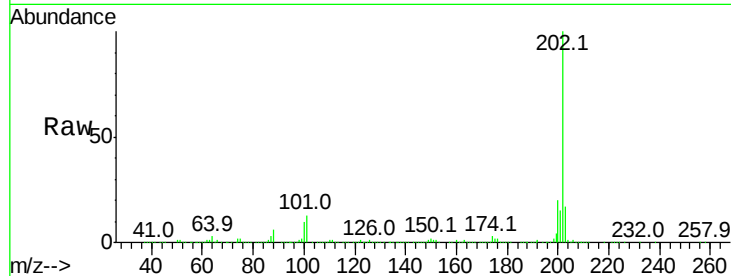
ClientSampleId :

TS-02

Tot Ion:	202	Resp:	696423
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	33.2
203	17.5	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

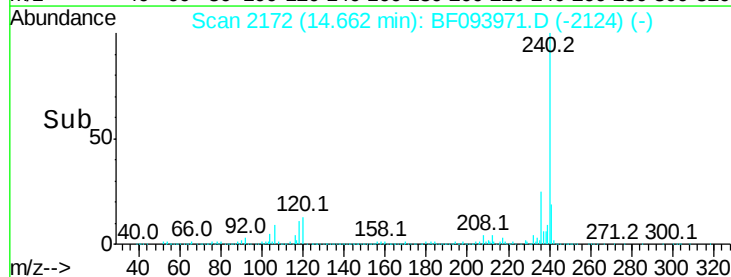
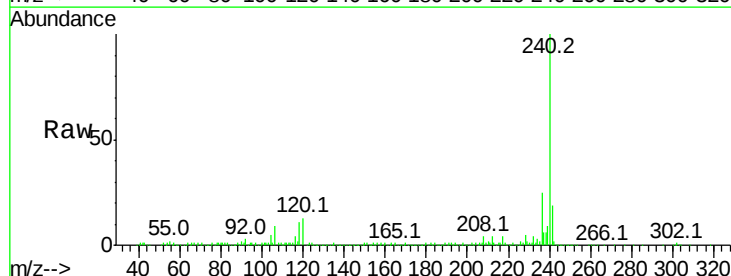
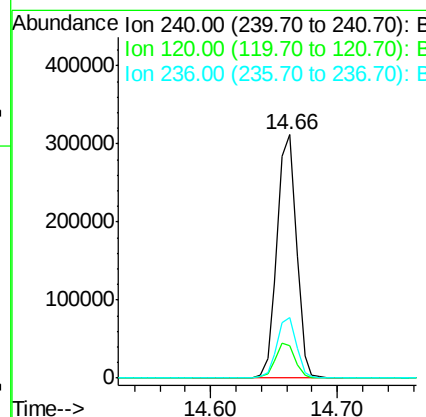
RT: 14.66 min Scan# 2172

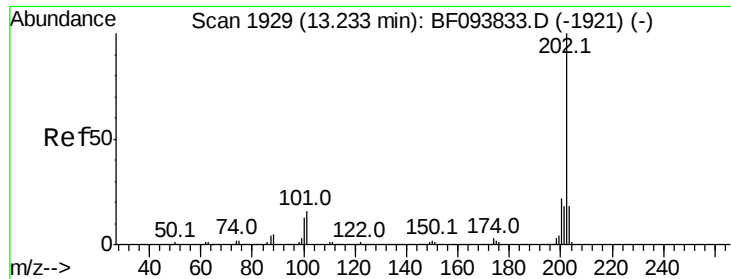
Delta R.T. -0.02 min

Lab File: BF093971.D

Acq: 28 Mar 2017 4:44

Tgt Ion:	240	Resp:	333597
Ion Ratio	Lower	Upper	
240	100		
120	13.4	5.8	8.8#
236	25.1	20.5	30.7





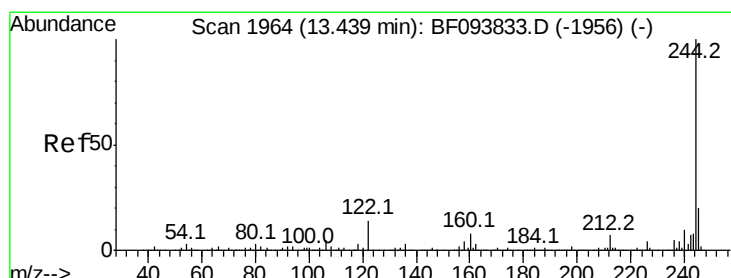
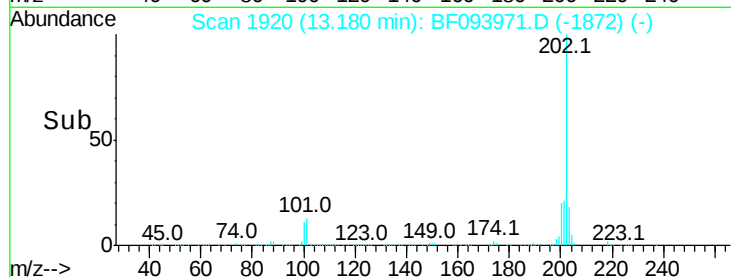
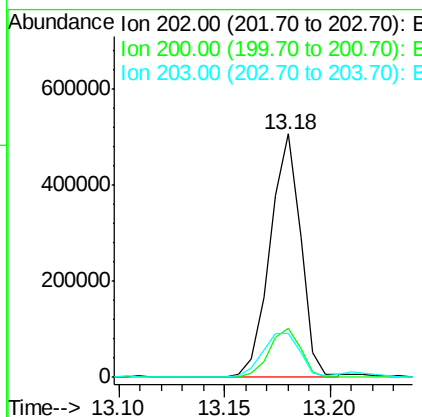
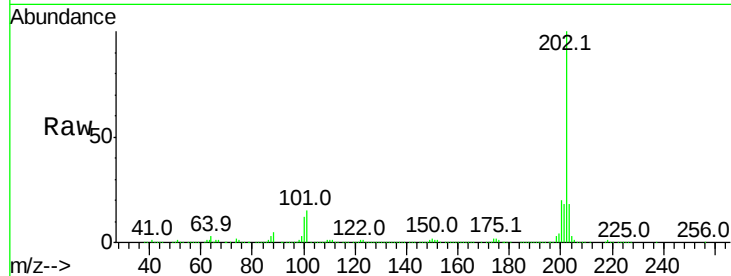
#77
Pvrene
Concen: 21.03 ng
RT: 13.18 min Scan# 1920
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampleId :
TS-02

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.6	26.4
203	18.0	14.4	21.6

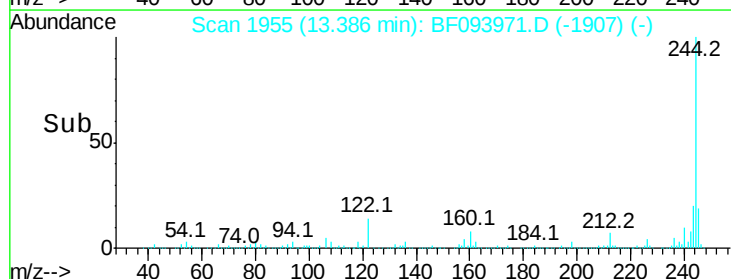
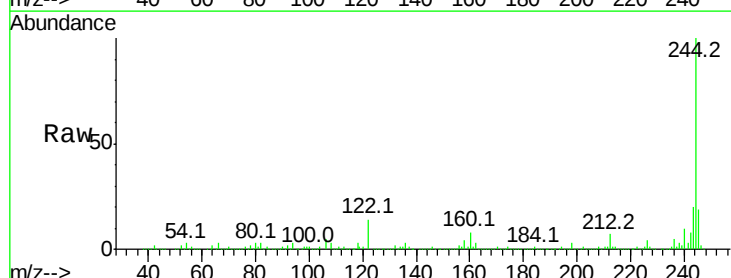
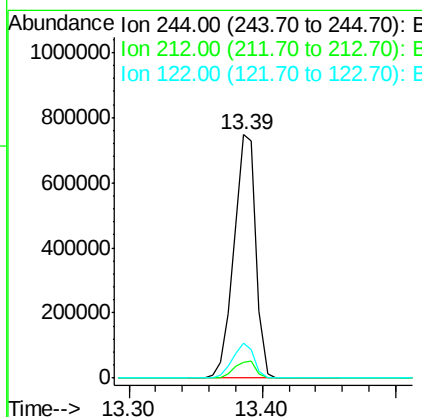
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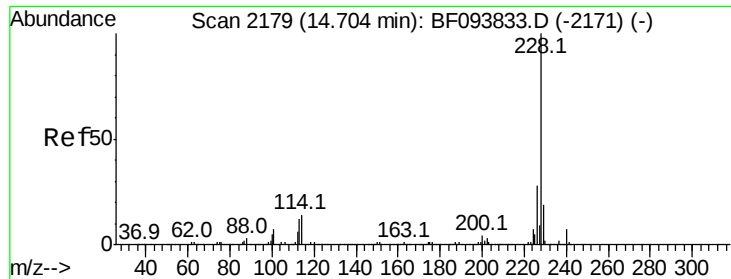
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#78
Terphenyl-d14
Concen: 57.60 ng
RT: 13.39 min Scan# 1955
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	14.4	10.3	15.5





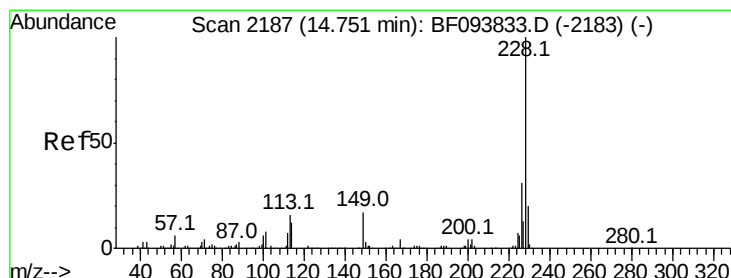
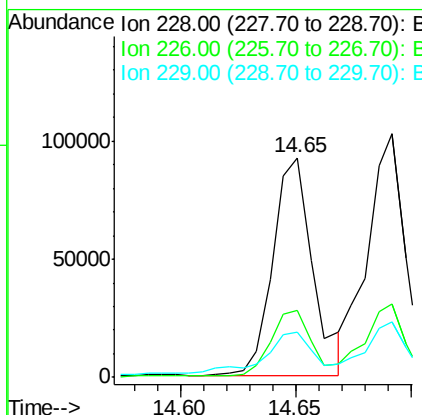
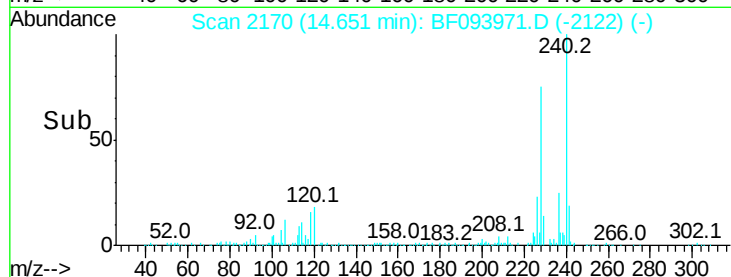
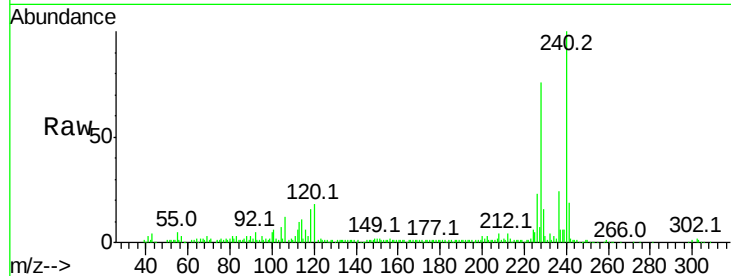
#80
Benzo(a)anthracene
Concen: 5.69 ng
RT: 14.65 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampleId :
TS-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.6	33.8
229	20.8	16.3	24.5

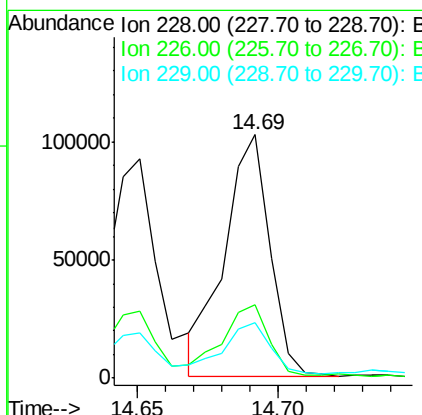
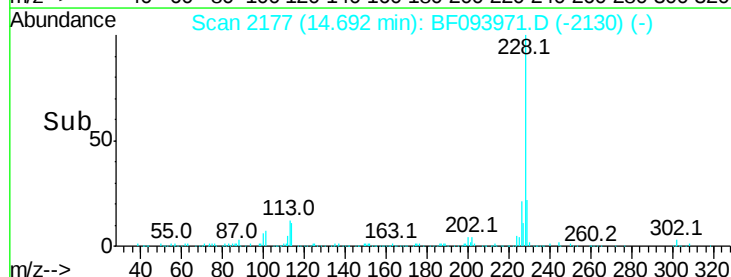
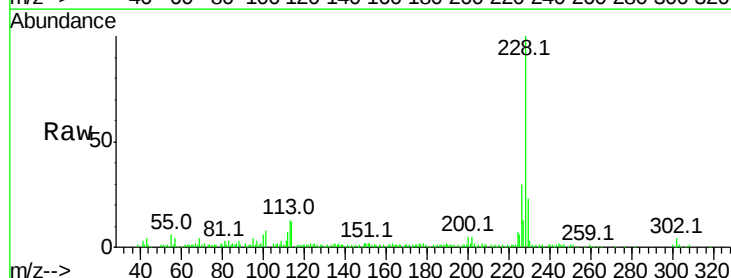
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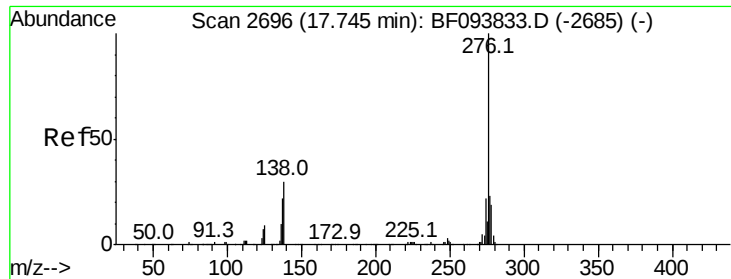
mohammad
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#82
Chrysene
Concen: 6.32 ng
RT: 14.69 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	22.7	15.8	23.6





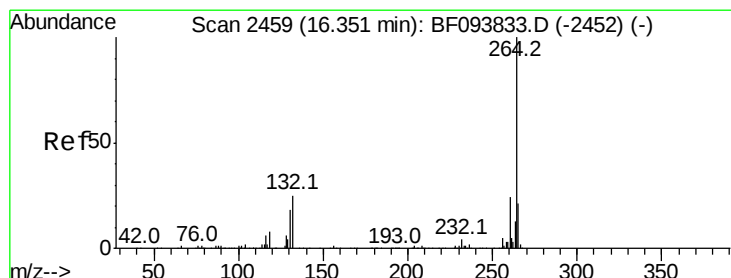
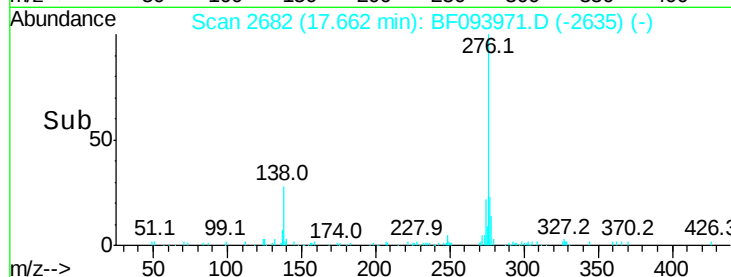
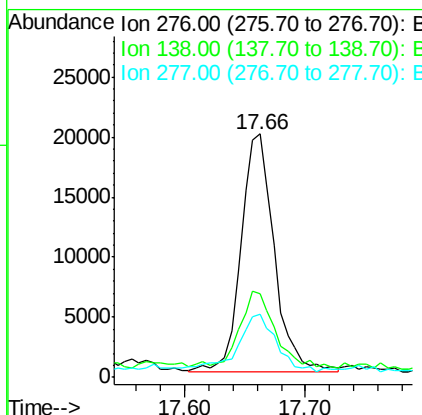
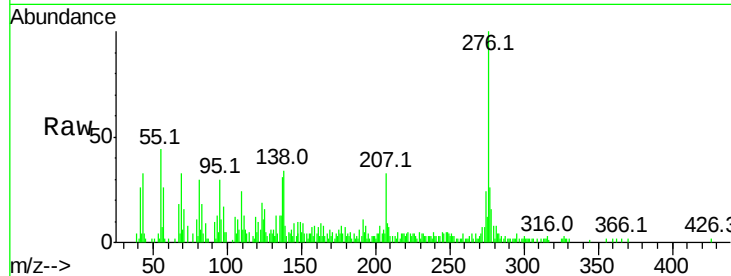
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.42 ng
RT: 17.66 min Scan# 2682
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampled :
TS-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	34.4	27.8	41.6
277	29.6	20.2	30.4

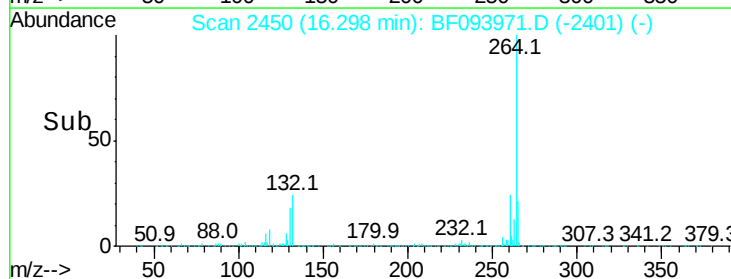
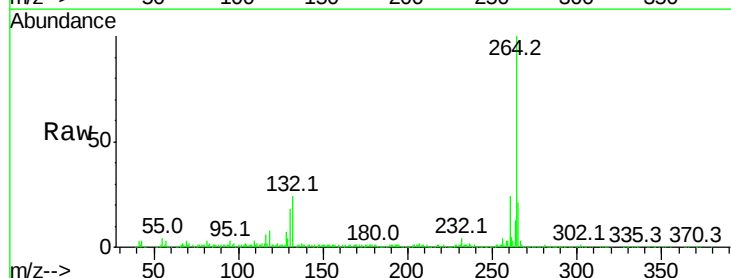
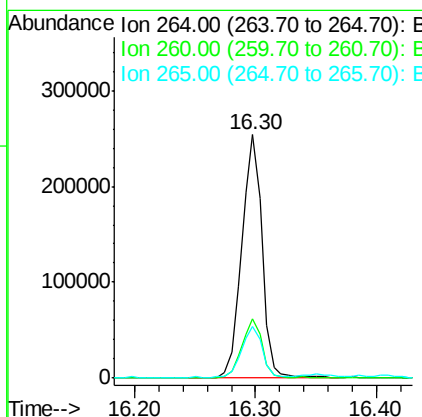
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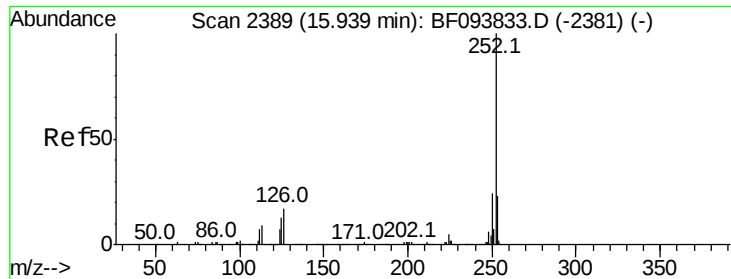
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.30 min Scan# 2450
Delta R.T. -0.01 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	21.3	17.2	25.8





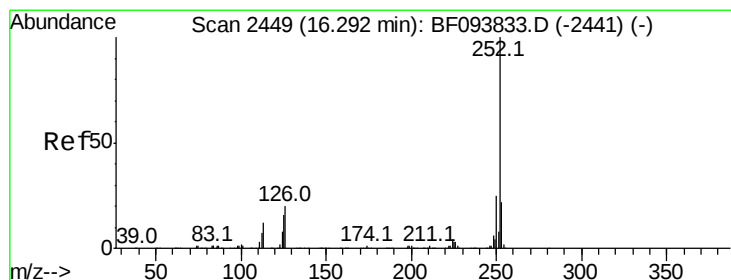
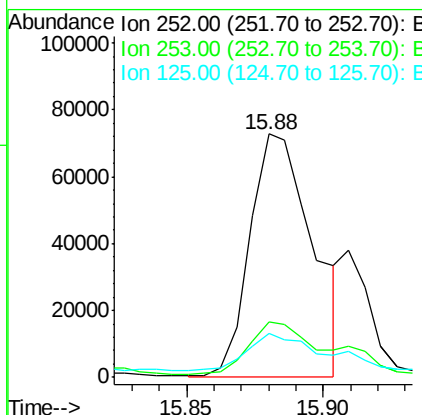
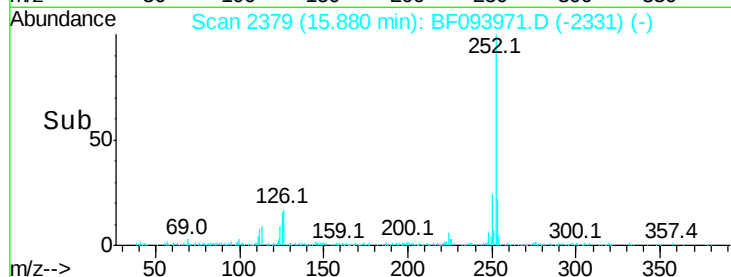
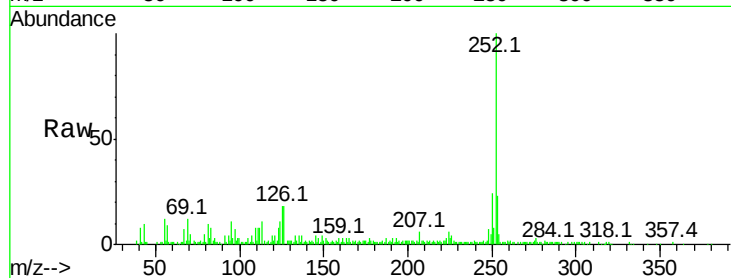
#87
Benzo(b)fluoranthene
Concen: 6.41 ng m
RT: 15.88 min Scan# 2379
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Instrument :
BNA_F
ClientSampleId :
TS-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	18.3	9.8	14.8

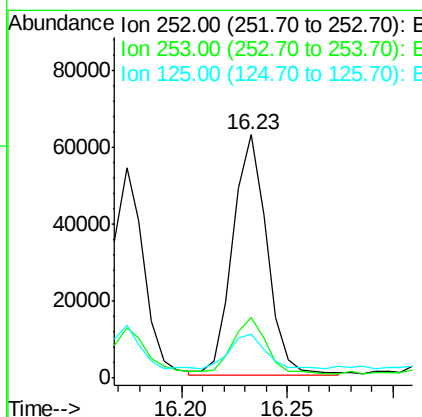
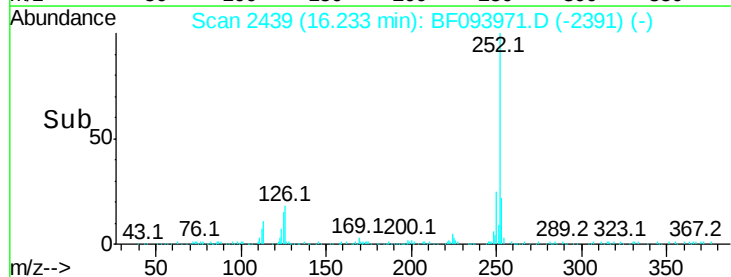
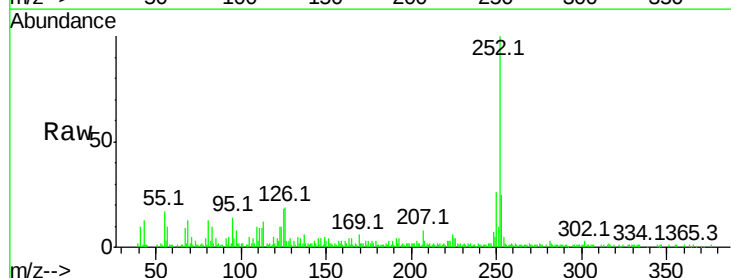
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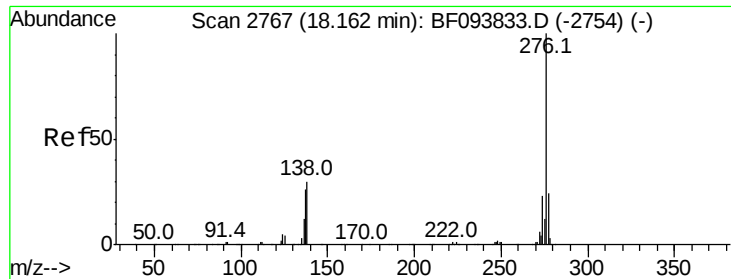
mohammad
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#89
Benzo(a)pyrene
Concen: 4.17 ng
RT: 16.23 min Scan# 2439
Delta R.T. -0.02 min
Lab File: BF093971.D
Acq: 28 Mar 2017 4:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.5	26.3
125	18.2	11.0	16.4





#91
 Benzo(a,h,i)perylene
 Concen: 2.65 ng
 RT: 18.06 min Scan# 2750
 Delta R.T. -0.04 min
 Lab File: BF093971.D
 Acq: 28 Mar 2017 4:44

Instrument :
 BNA_F
 ClientSampleId :
 TS-02

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	33.8	25.4	38.0

Manual Integrations
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