

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031817\
 Data File : BF093756.D
 Acq On : 18 Mar 2017 16:17
 Operator : SJ/MA
 Sample : I2133-10
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB415A

Manual Integrations
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 3/20/2017 1:00:54 PM

Quant Time: Mar 20 07:50:33 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 18 05:21:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	216246	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	782973	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	266011	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	481194	20.00	ng	0.01
75) Chrysene-d12	14.00	240	314208	20.00	ng	0.00
86) Perylene-d12	15.43	264	309776	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	1650401	127.24	ng	0.01
7) Phenol-d6	6.48	99	1978185	123.05	ng	0.00
23) Nitrobenzene-d5	7.41	82	1261608	96.71	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	327268	187.98	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	1552231	110.11	ng	0.00
78) Terphenyl-d14	12.96	244	1123173	76.94	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.49	94	75735	4.03	ng	99
48) Acenaphthylene	9.75	152	86169	3.53	ng	# 66
49) Dimethylphthalate	9.60	163	344437	19.82	ng	# 95
51) Acenaphthene	9.92	154	88244	6.13	ng	95
70) Phenanthrene	11.40	178	204558	7.52	ng	# 87
71) Anthracene	11.44	178	90597	3.40	ng	# 69
74) Fluoranthene	12.58	202	429810	16.30	ng	94
77) Pyrene	12.81	202	618100	23.13	ng	98
80) Benzo(a)anthracene	13.99	228	434059	21.52	ng	91
82) Chrysene	14.02	228	314551m	16.14	ng	
85) Indeno(1,2,3-cd)pyrene	16.83	276	502961	30.47	ng	93
87) Benzo(b)fluoranthene	15.03	252	663956m	33.81	ng	
88) Benzo(k)fluoranthene	15.04	252	207295m	11.94	ng	
89) Benzo(a)pyrene	15.37	252	525883	30.30	ng	# 88
90) Dibenzo(a,h)anthracene	16.83	278	110345m	7.51	ng	
91) Benzo(g,h,i)perylene	17.24	276	554419	37.13	ng	99

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

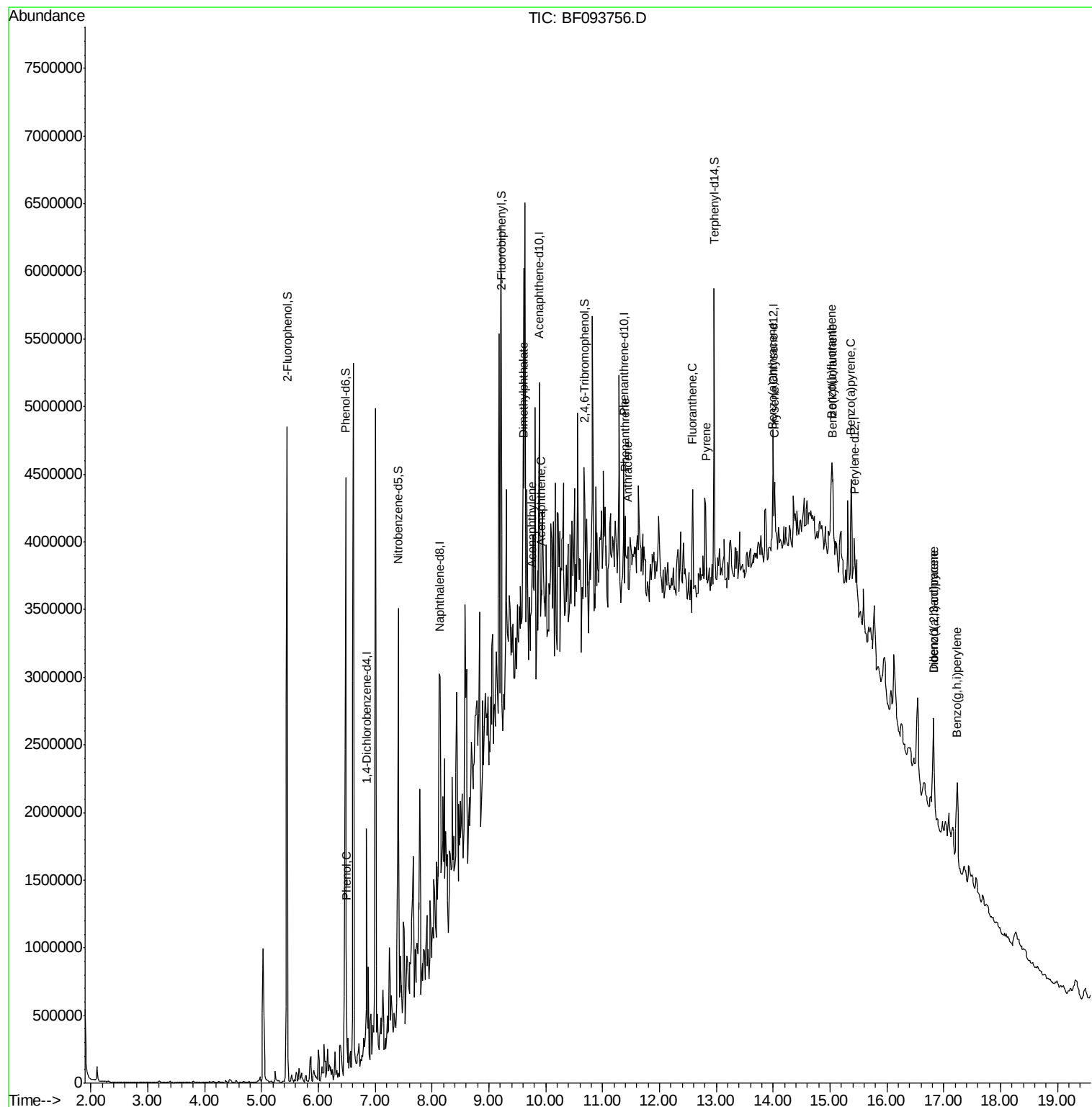
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031817\
Data File : BF093756.D
Acq On : 18 Mar 2017 16:17
Operator : SJ/MA
Sample : I2133-10
Misc :
ALS Vial : 39 Sample Multiplier: 1

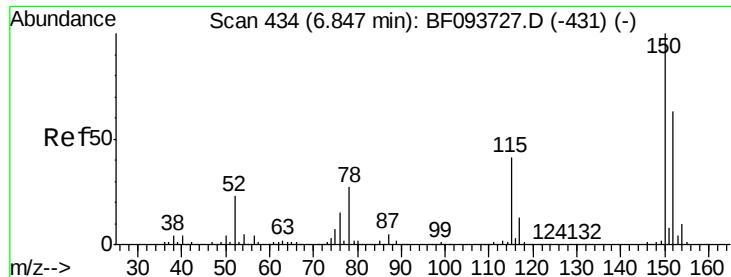
Instrument :
BNA_F
ClientSampleID :
HY-SB415A

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Quant Time: Mar 20 07:50:33 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

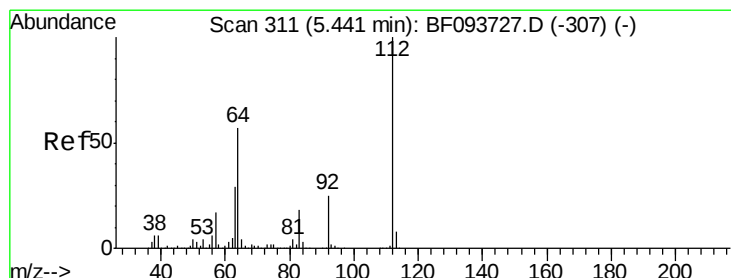
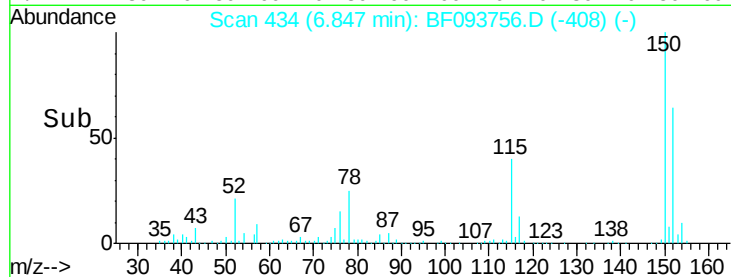
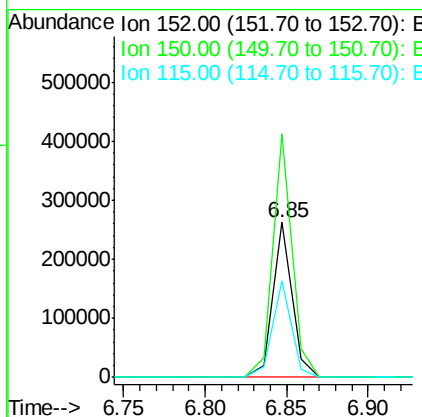
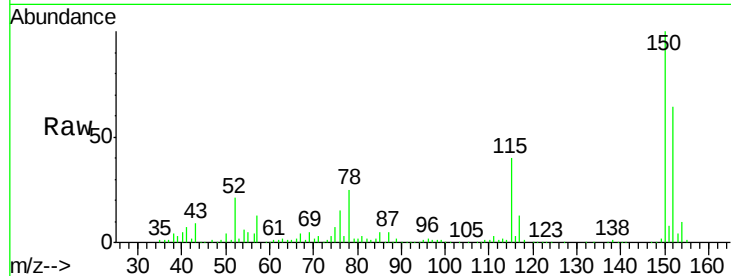
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 434
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	216246		
150	157.1	126.2	189.2	
115	62.2	52.2	78.2	

Manual Integrations
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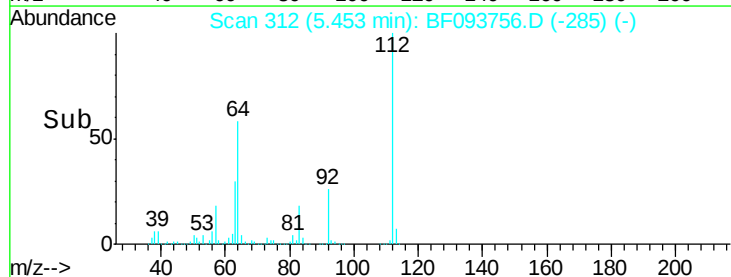
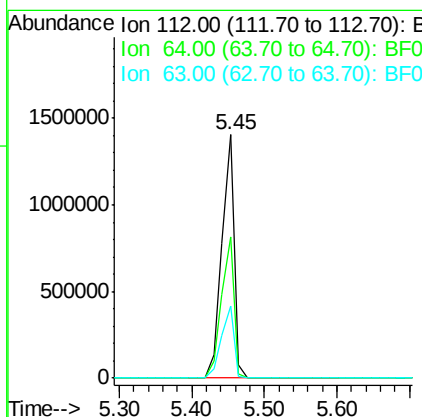
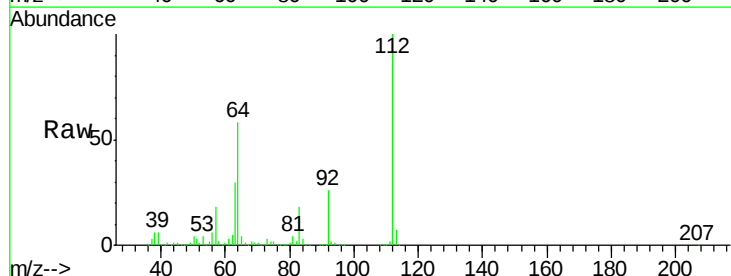
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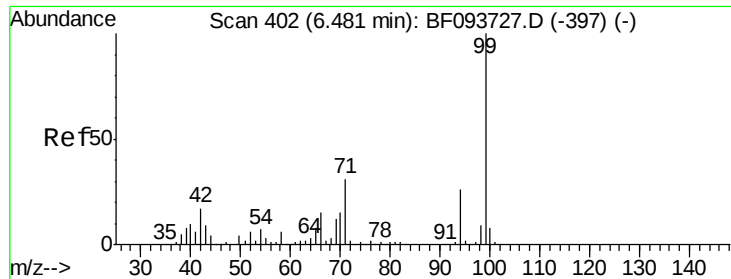


#5

2-Fluorophenol
Concen: 127.24 ng
RT: 5.45 min Scan# 312
Delta R.T. 0.01 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1650401		
64	58.2	46.0	69.0	
63	29.8	23.4	35.0	





#7

Phenol-d6

Concen: 123.05 ng

RT: 6.48 min Scan# 402

Delta R.T. -0.00 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Instrument :

BNA_F

ClientSampleId :

HY-SB415A

Tgt Ion: 99 Resp: 1978185

Ion Ratio Lower Upper

99 100

42 19.3 13.5 20.3

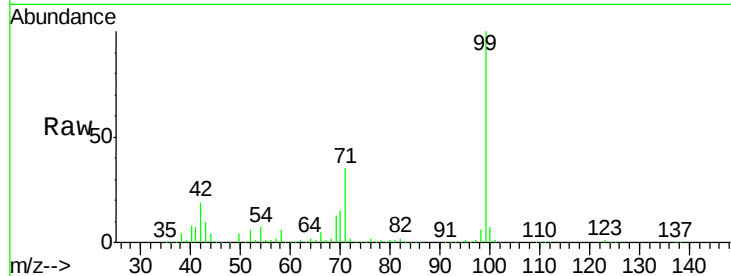
71 34.8 24.5 36.7

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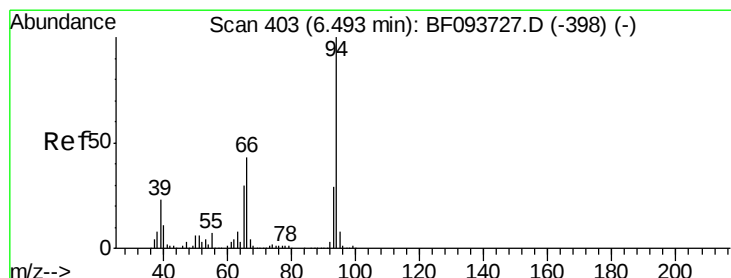
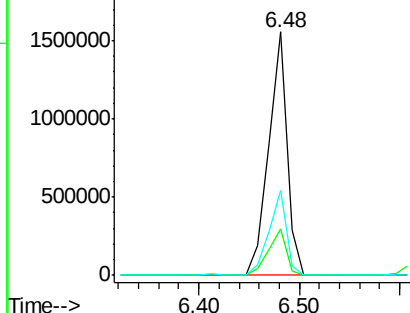
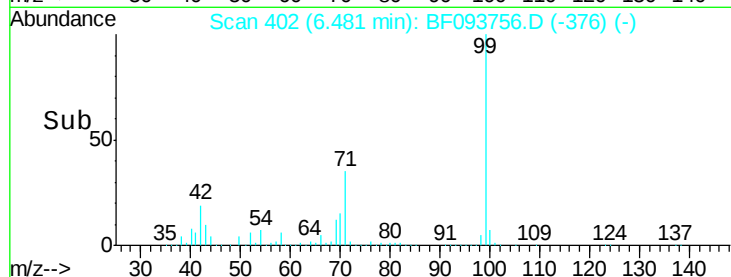
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 4.03 ng

RT: 6.49 min Scan# 403

Delta R.T. -0.00 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

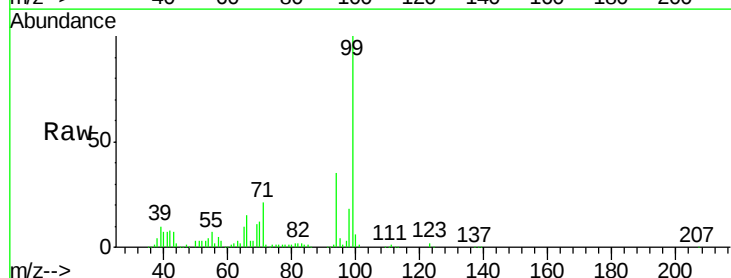
Tgt Ion: 94 Resp: 75735

Ion Ratio Lower Upper

94 100

65 29.6 9.9 49.9

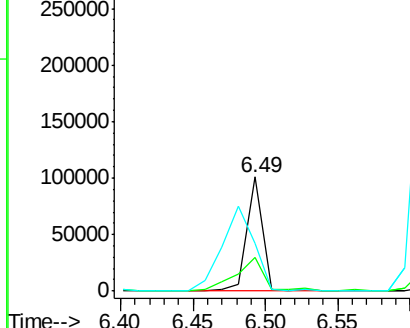
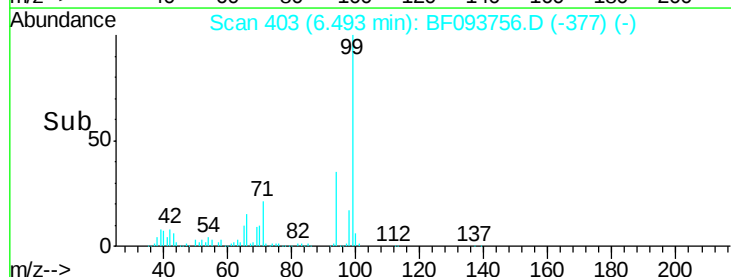
66 42.4 23.1 63.1

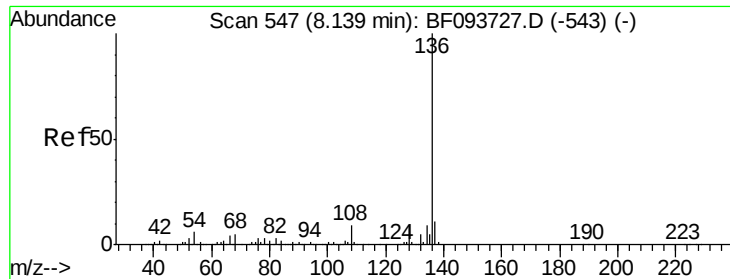


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





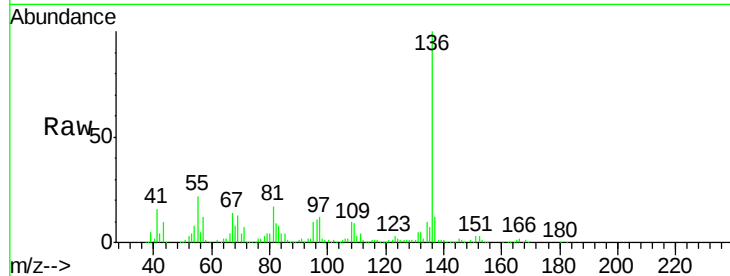
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampled :
HY-SB415A

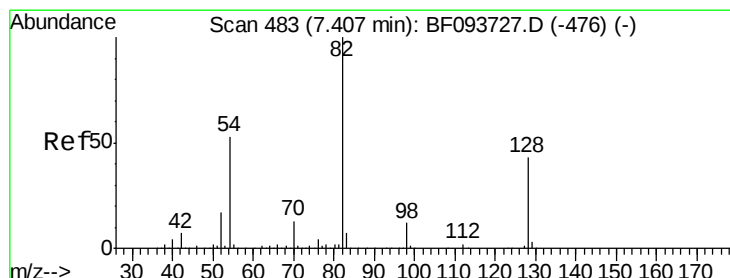
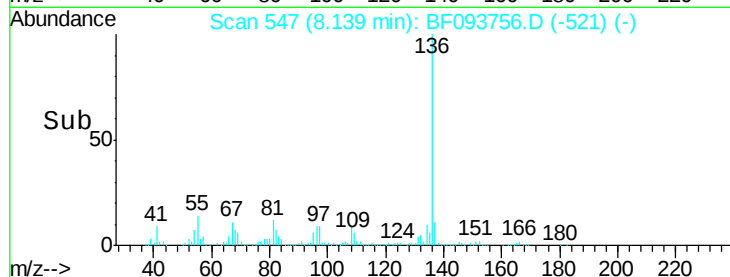
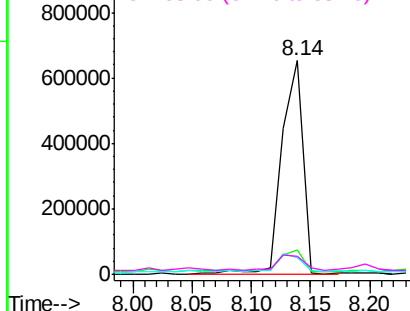
Tgt Ion	Ratio	Resp Lower	Upper
136	100		
137	11.6	8.5	12.7
54	7.9	4.9	7.3#
68	8.5	4.1	6.1#

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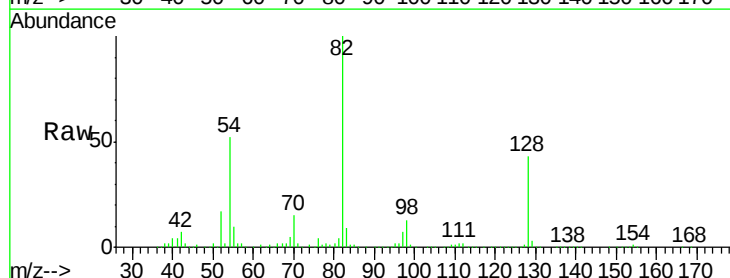


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

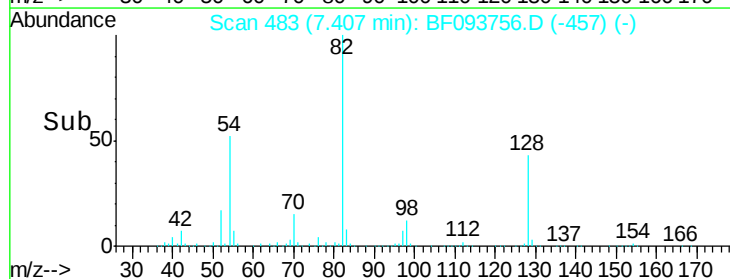
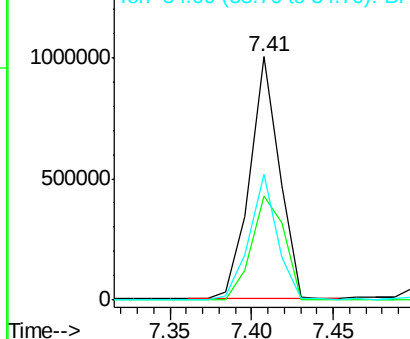


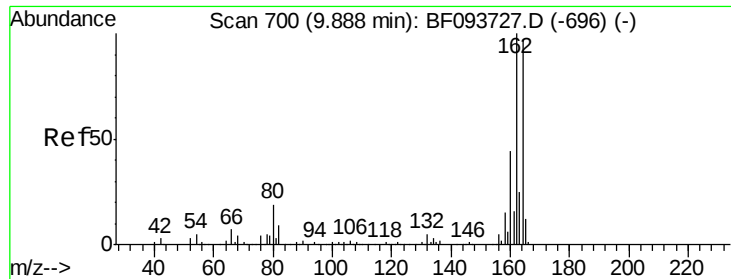
#23
Nitrobenzene-d5
Concen: 96.71 ng
RT: 7.41 min Scan# 483
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	43.0	34.0	51.0
54	51.9	42.2	63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 700

Delta R.T. -0.00 min

Lab File: BF093756.D

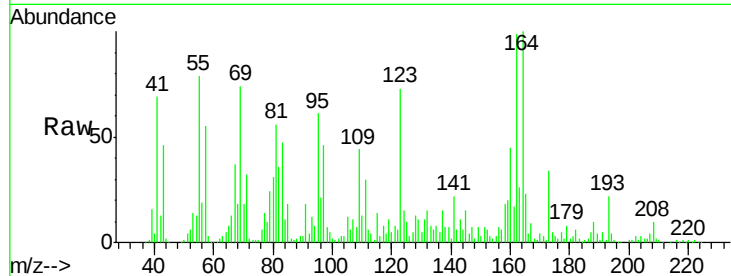
Acq: 18 Mar 2017 16:17

Instrument :

BNA_F

ClientSampleId :

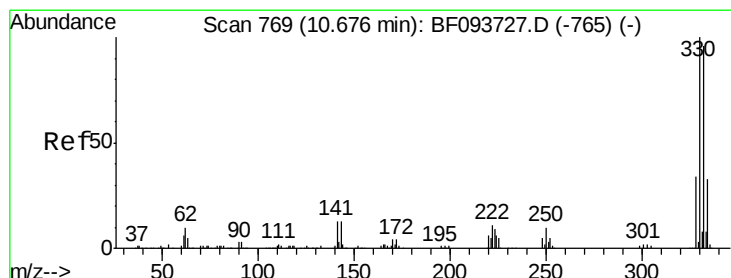
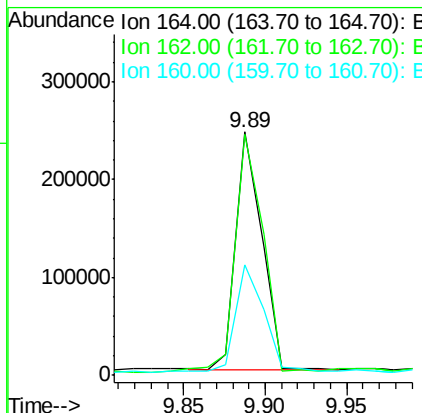
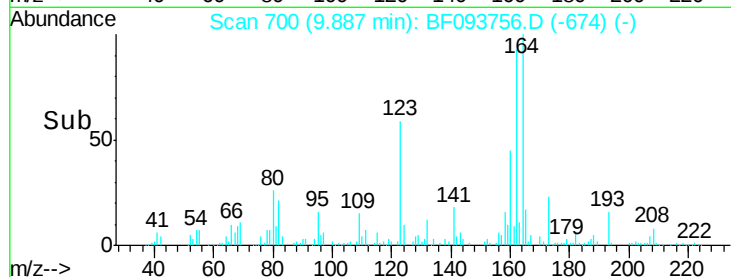
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Tgt Ion:	164	Resp:	266011
Ion Ratio	Lower	Upper	
164	100		
162	99.0	82.6	123.8
160	45.2	36.2	54.2

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#41

2,4,6-Tribromophenol

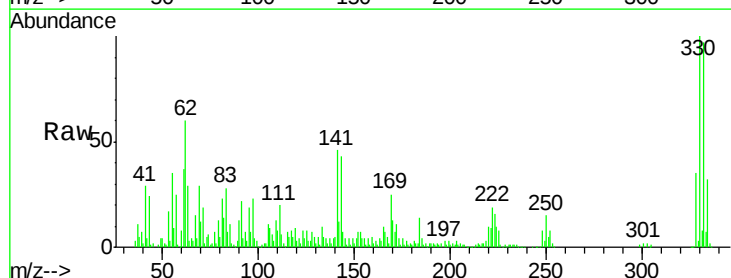
Concen: 187.98 ng

RT: 10.68 min Scan# 769

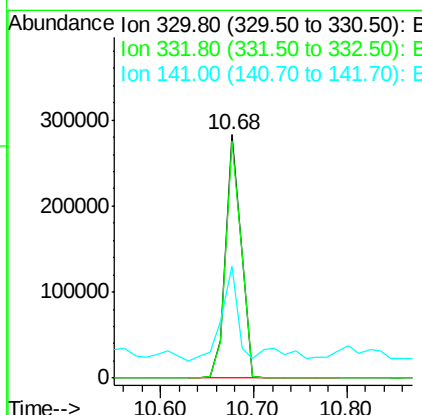
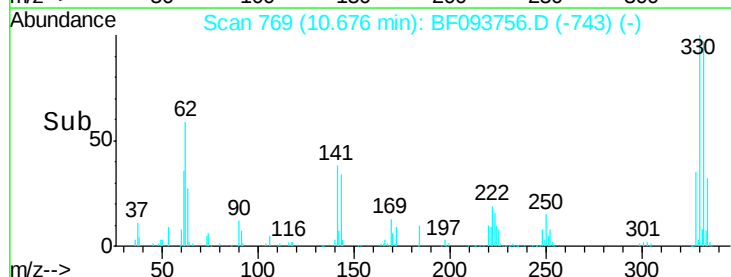
Delta R.T. -0.00 min

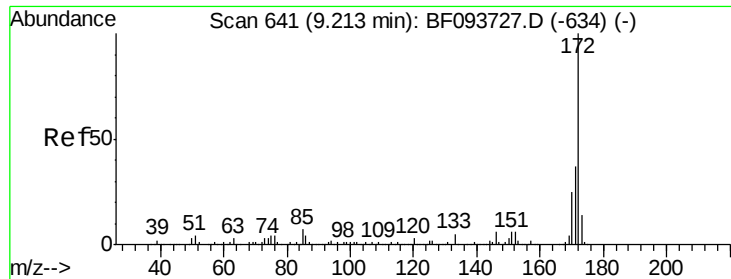
Lab File: BF093756.D

Acq: 18 Mar 2017 16:17



Tgt Ion:	330	Resp:	327268
Ion Ratio	Lower	Upper	
330	100		
332	98.1	76.6	115.0
141	39.0	31.4	47.2





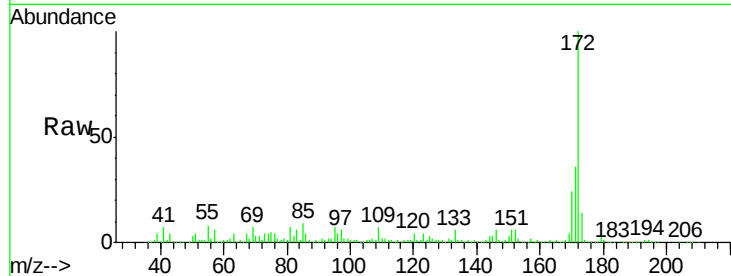
#44
2-Fluorobiphenyl
Concen: 110.11 ng
RT: 9.21 min Scan# 641
Delta R.T. 0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

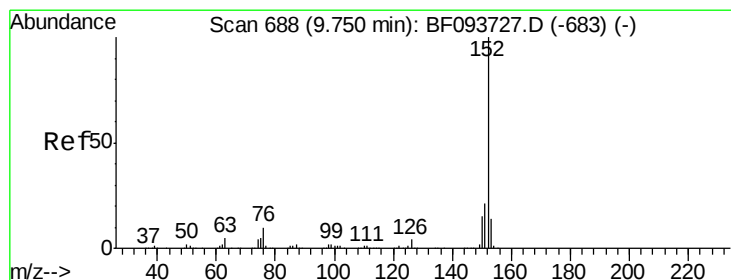
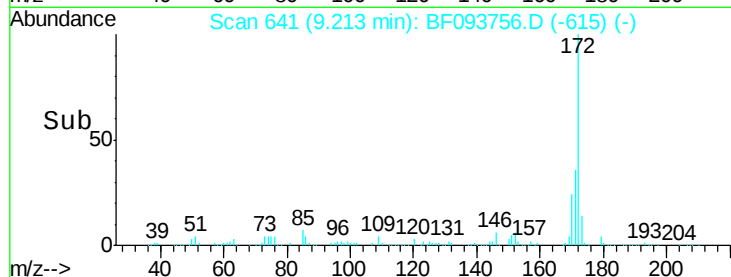
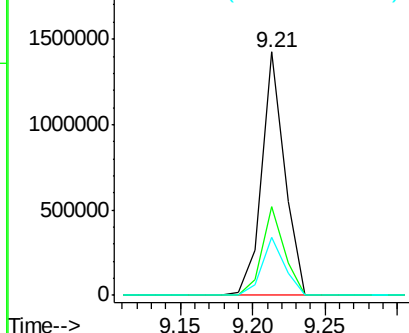
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	24.0	19.8	29.8

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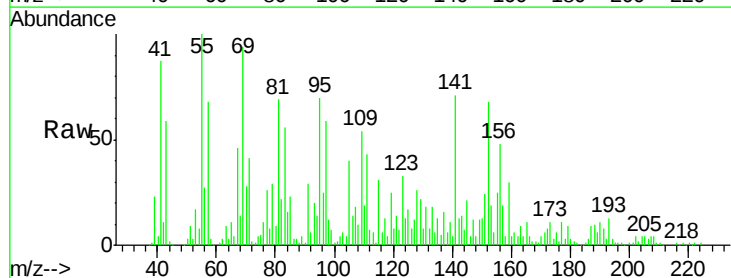


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

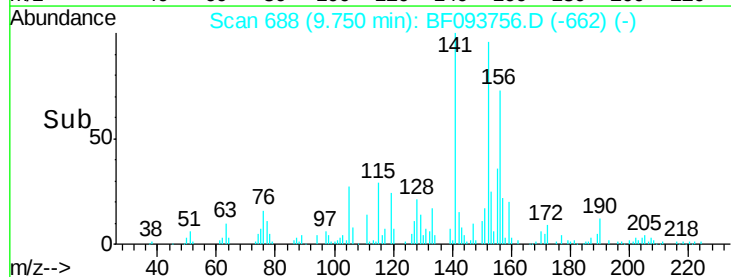
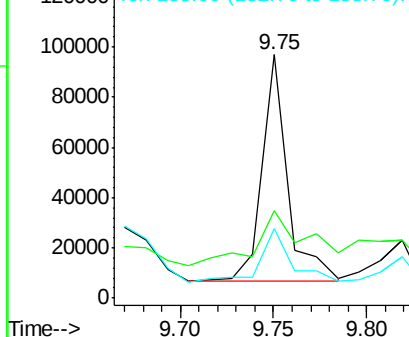


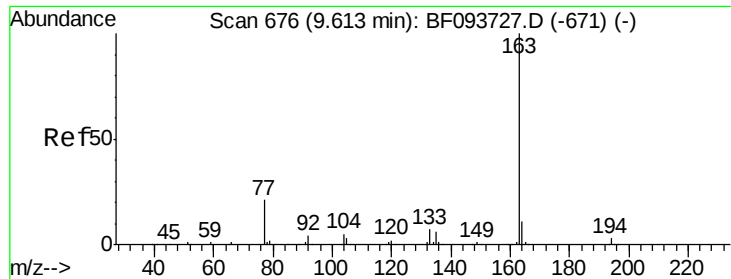
#48
Acenaphthylene
Concen: 3.53 ng
RT: 9.75 min Scan# 688
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
152	100		
151	36.1	16.8	25.2#
153	28.5	10.8	16.2#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





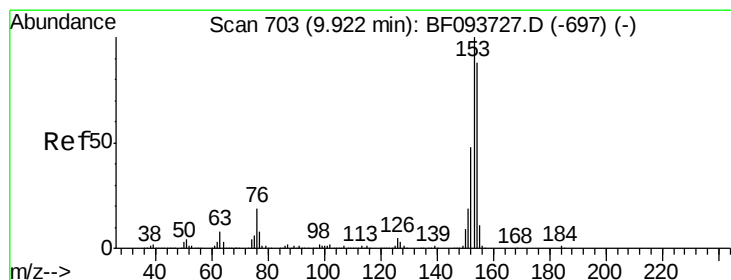
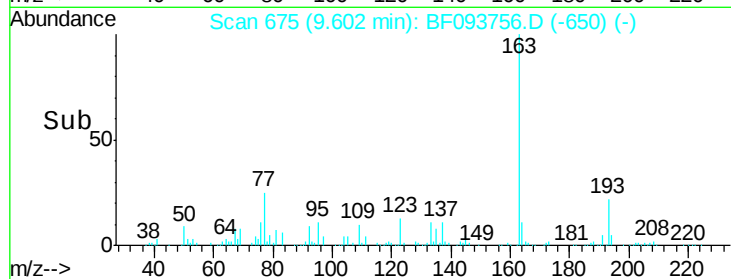
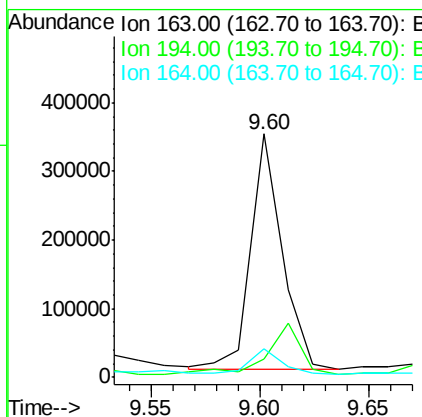
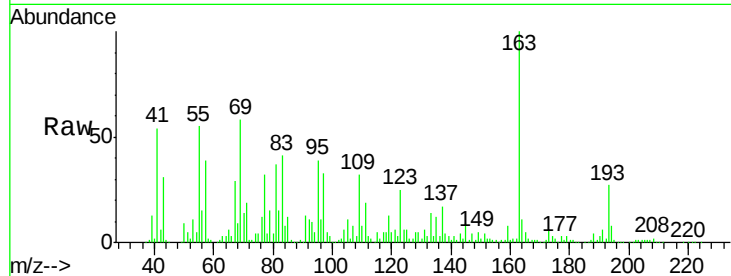
#49
Dimethylphthalate
Concen: 19.82 ng
RT: 9.60 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	344437		
194	7.7	2.6	4.0#	
164	11.5	8.4	12.6	

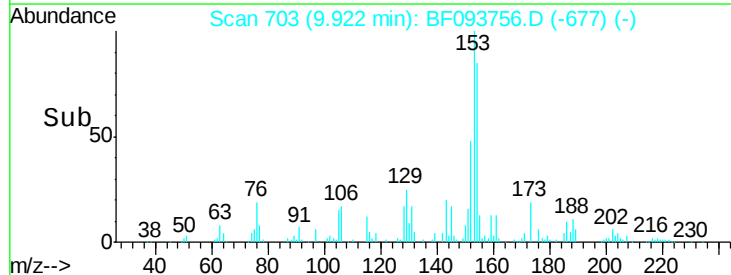
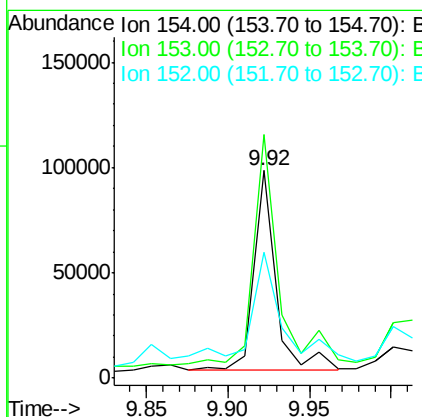
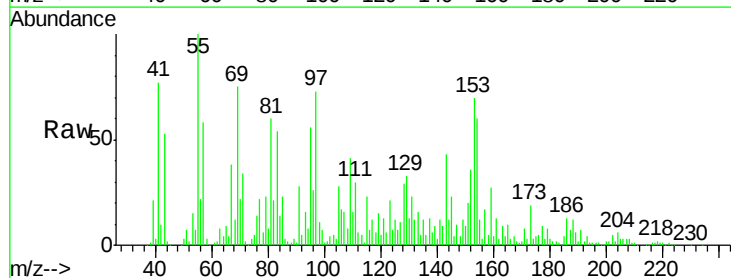
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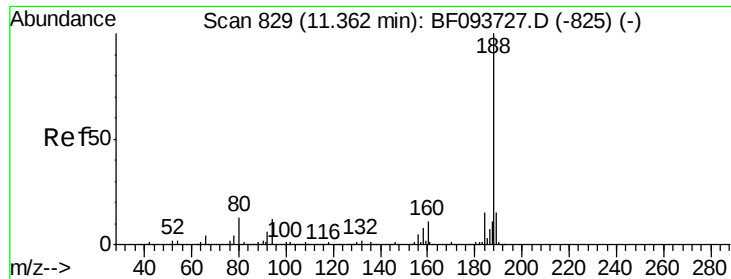
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#51
Acenaphthene
Concen: 6.13 ng
RT: 9.92 min Scan# 703
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	88244		
153	117.3	90.5	135.7	
152	60.4	43.6	65.4	





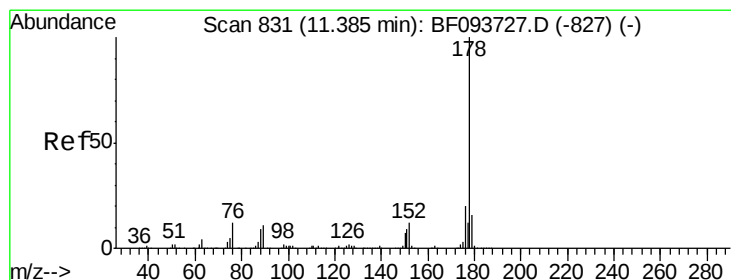
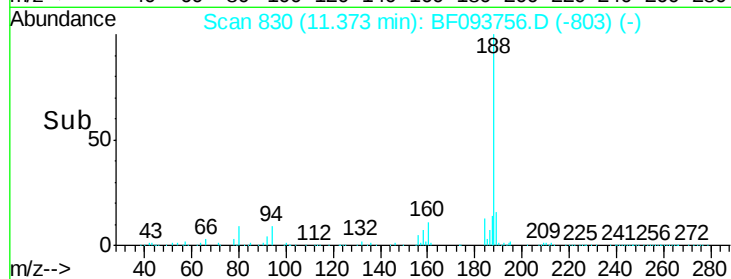
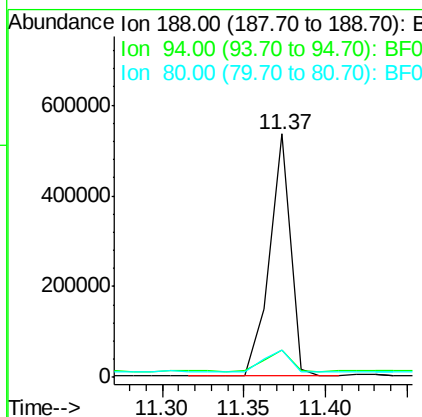
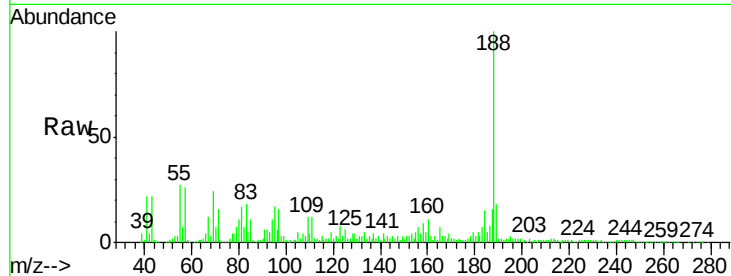
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 830
Delta R.T. 0.01 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	481194		
94	11.4		9.4	14.2
80	11.4		10.2	15.2

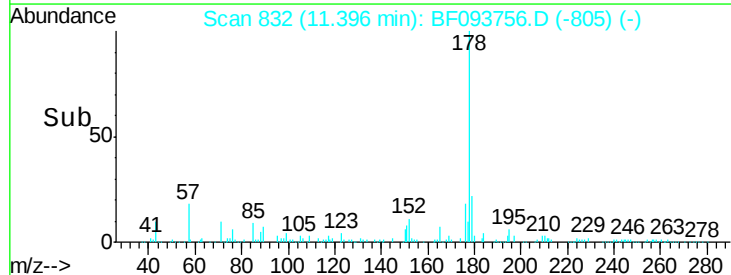
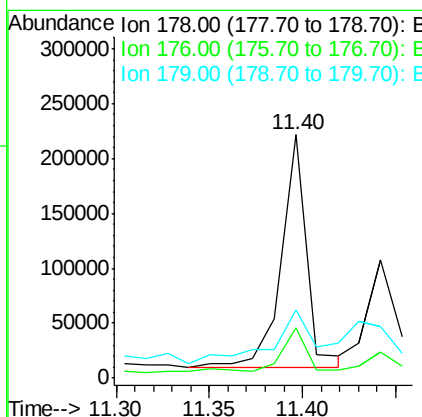
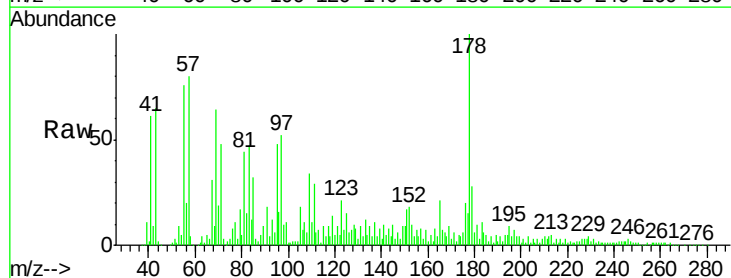
Manual Integrations
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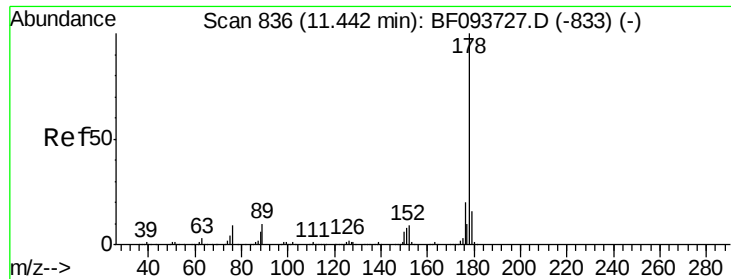
mohammad
3/20/2017 1:00:54 PM



#70
Phenanthrene
Concen: 7.52 ng
RT: 11.40 min Scan# 832
Delta R.T. 0.01 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	204558		
176	20.5		16.2	24.4
179	27.9		12.6	19.0#





#71

Anthracene

Concen: 3.40 ng

RT: 11.44 min Scan# 836

Delta R.T. 0.00 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Instrument :

BNA_F

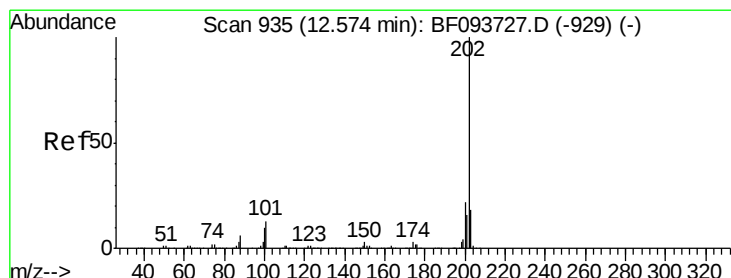
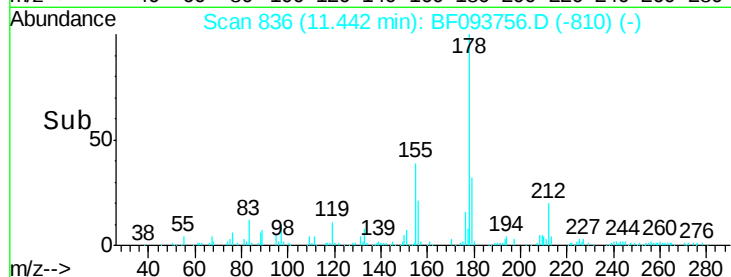
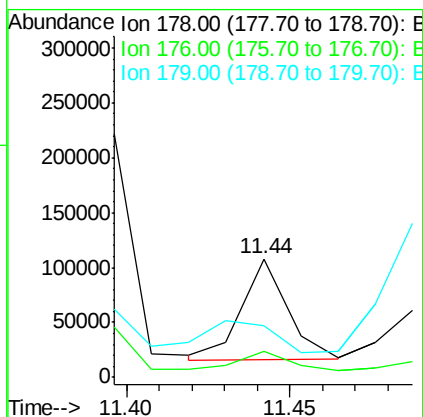
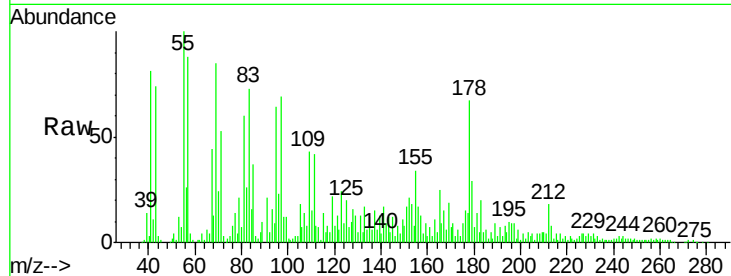
ClientSampled :

HY-SB415A

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.7	15.8	23.8
179	43.0	12.7	19.1

Manual Integrations
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#74

Fluoranthene

Concen: 16.30 ng

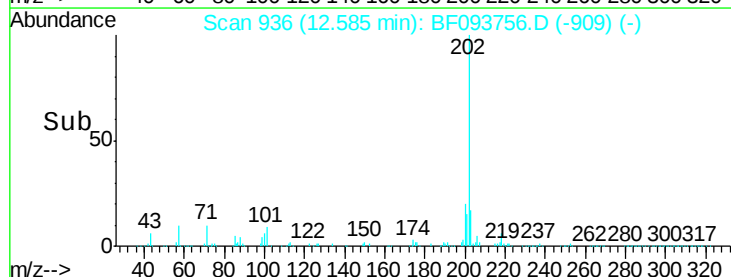
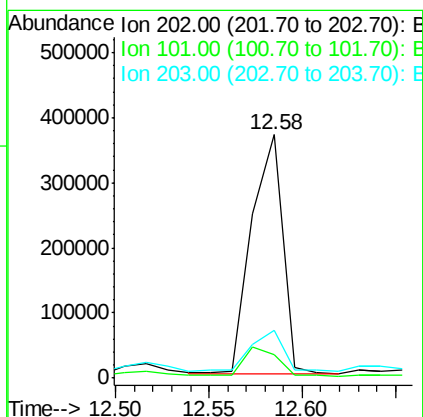
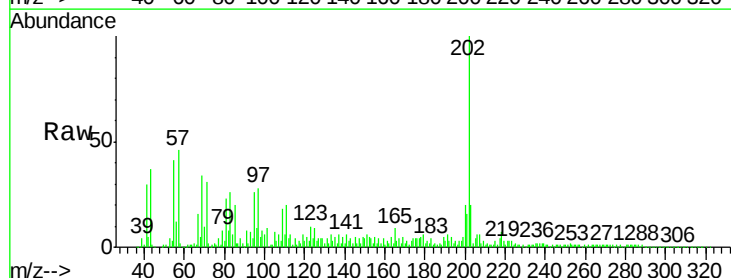
RT: 12.58 min Scan# 936

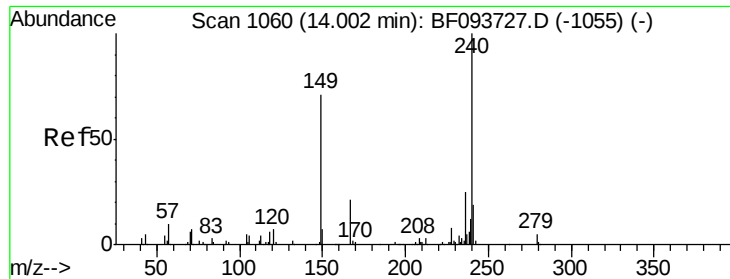
Delta R.T. 0.01 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	33.2
203	19.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Instrument :

BNA_F

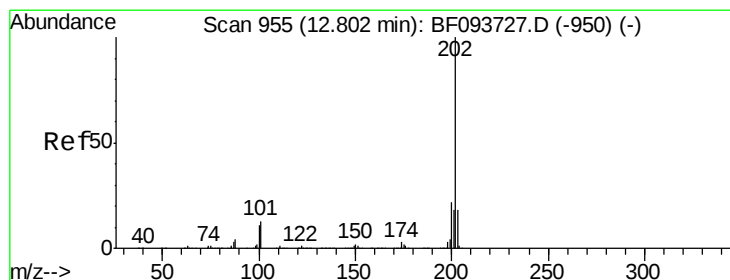
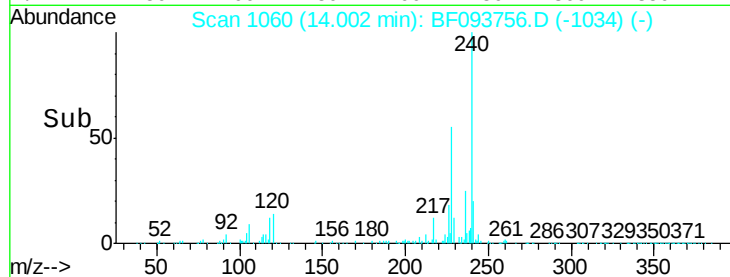
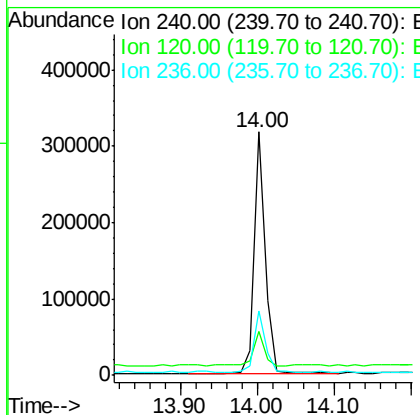
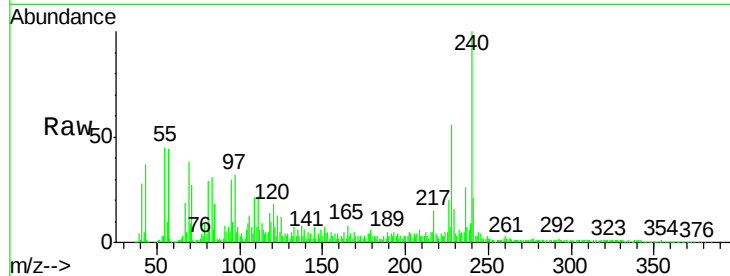
ClientSampleId :

HY-SB415A

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.9	5.8	8.8#
236	26.2	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 23.13 ng

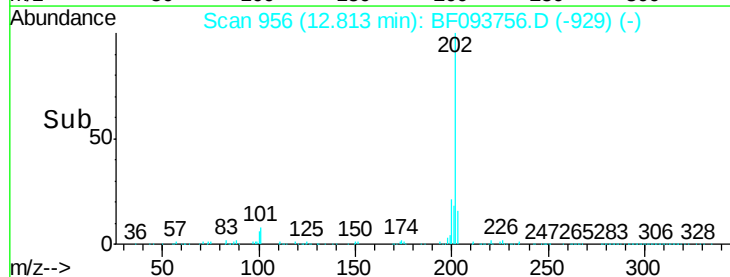
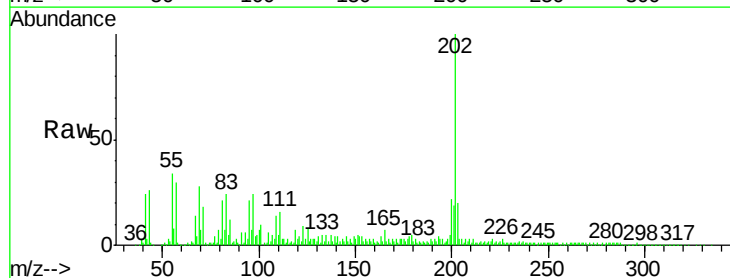
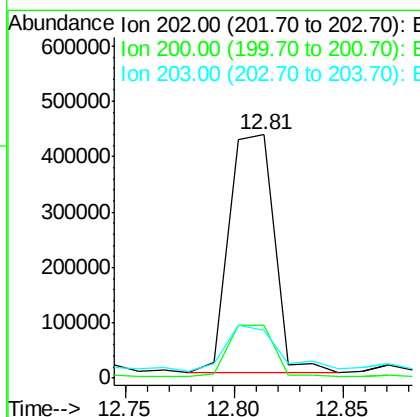
RT: 12.81 min Scan# 956

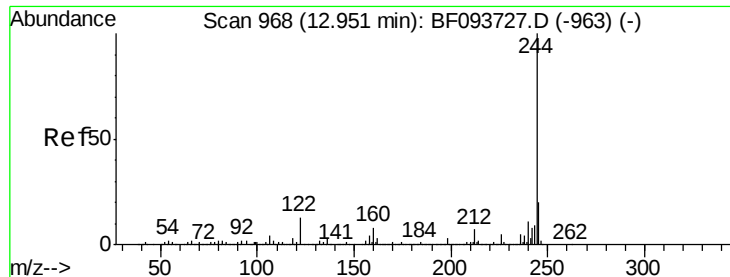
Delta R.T. 0.01 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	19.5	14.4	21.6





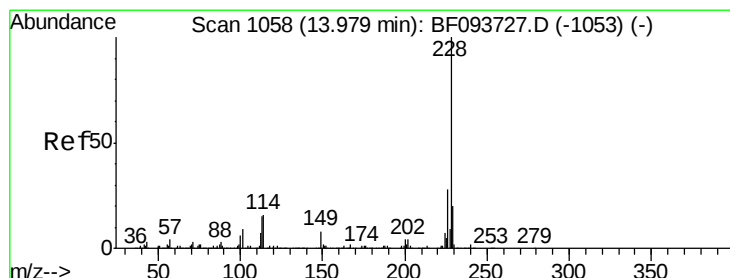
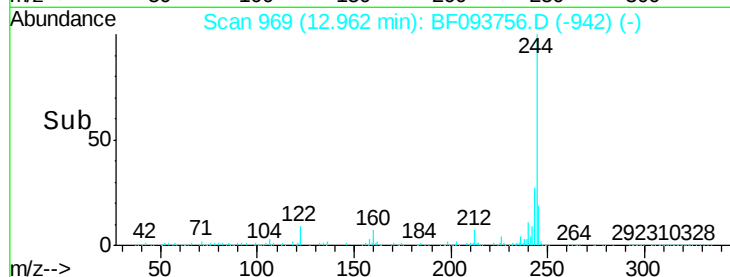
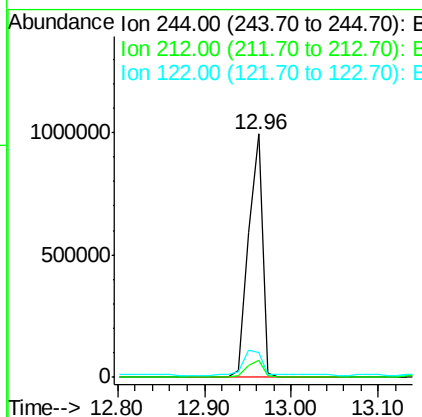
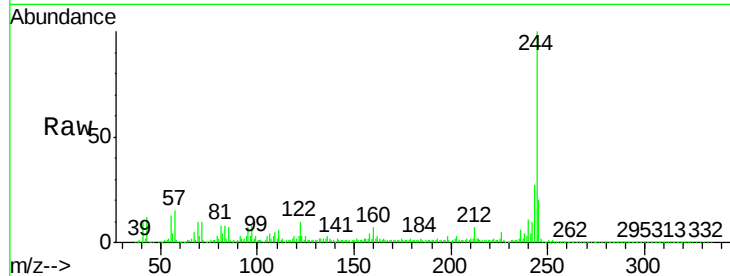
#78
 Terphenyl-d14
 Concen: 76.94 ng
 RT: 12.96 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: BF093756.D
 Acq: 18 Mar 2017 16:17

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB415A

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.4	10.3	15.5

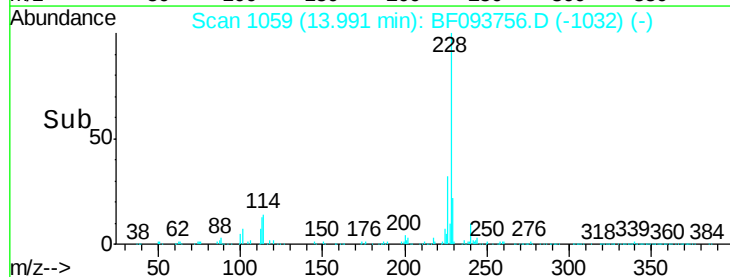
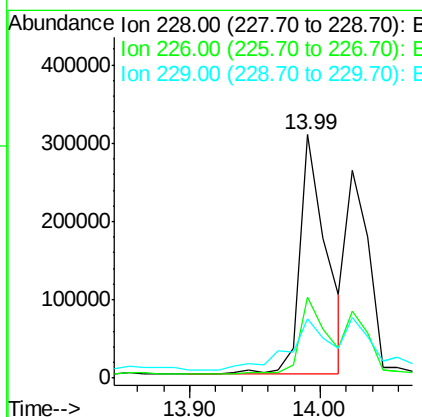
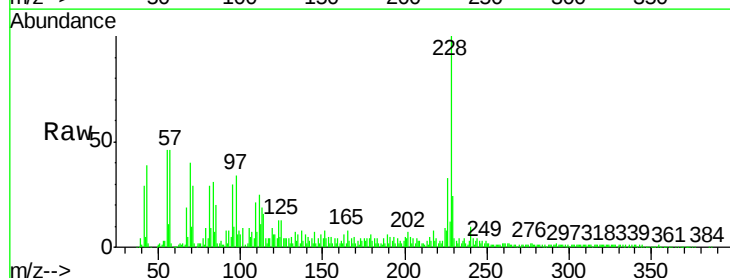
Manual Integrations
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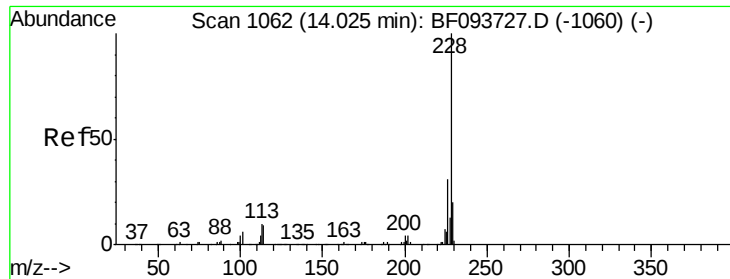
mohammad
 3/20/2017 1:00:54 PM



#80
 Benzo(a)anthracene
 Concen: 21.52 ng
 RT: 13.99 min Scan# 1059
 Delta R.T. 0.01 min
 Lab File: BF093756.D
 Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.6	33.8
229	24.4	16.3	24.5





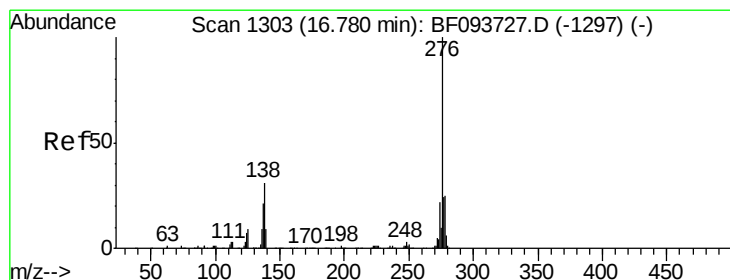
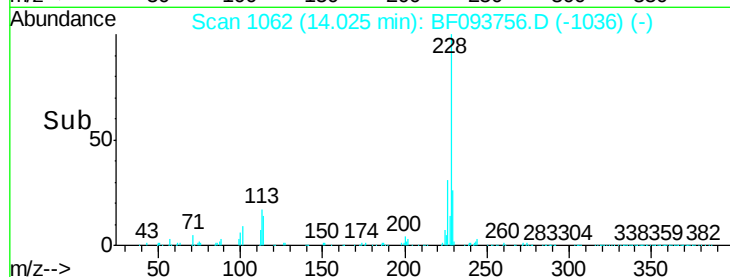
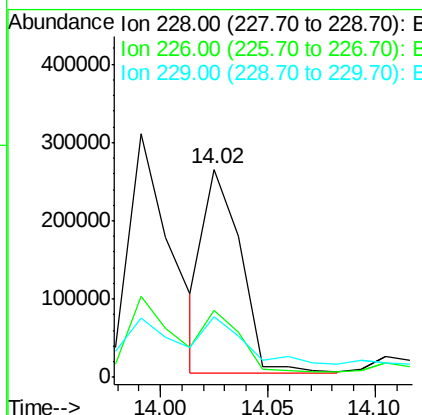
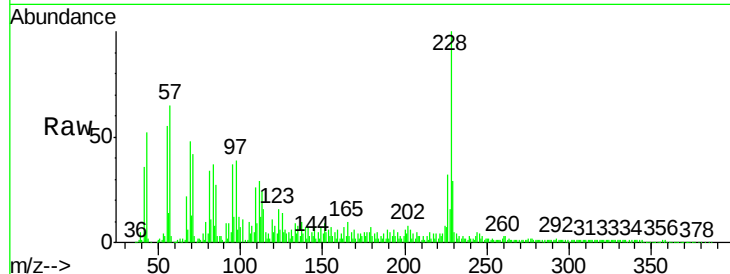
#82
Chrysene
Concen: 16.14 ng m
RT: 14.02 min Scan# 1062
Delta R.T. -0.00 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	314551		
226	32.4	24.9	37.3	
229	29.1	15.8	23.6	

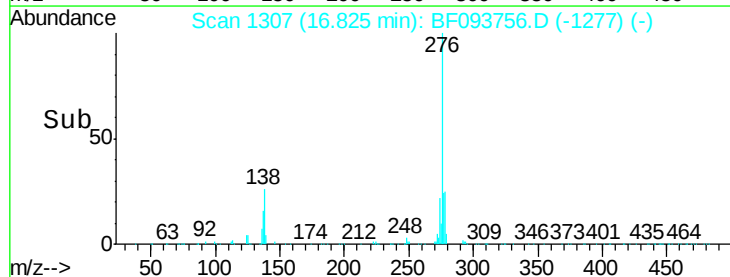
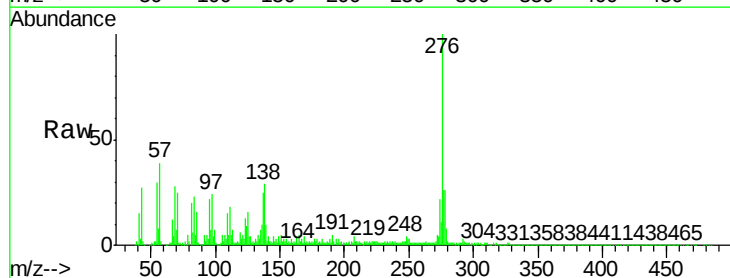
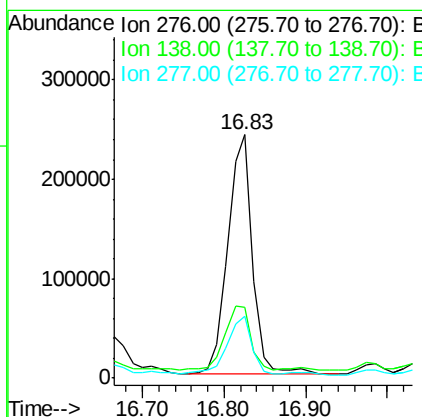
Manual Integrations
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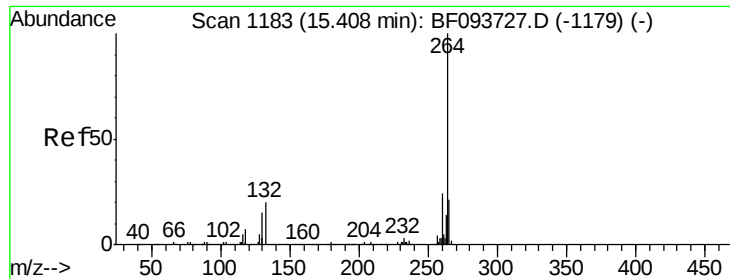
mohammad
3/20/2017 1:00:54 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 30.47 ng
RT: 16.83 min Scan# 1307
Delta R.T. 0.05 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	502961		
138	28.3	27.8	41.6	
277	24.1	20.2	30.4	





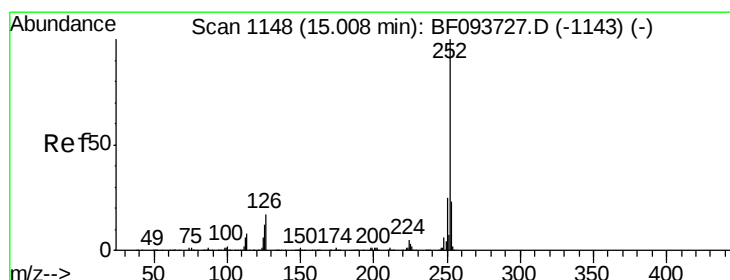
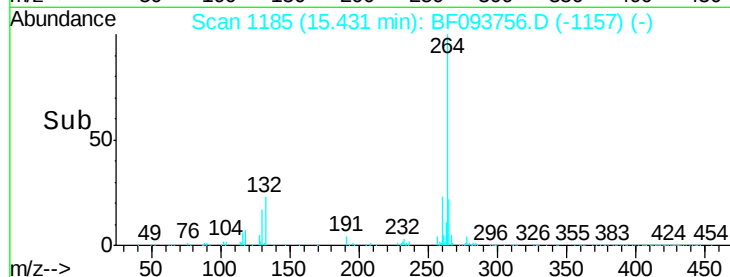
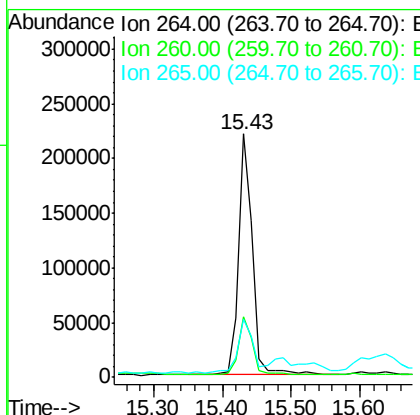
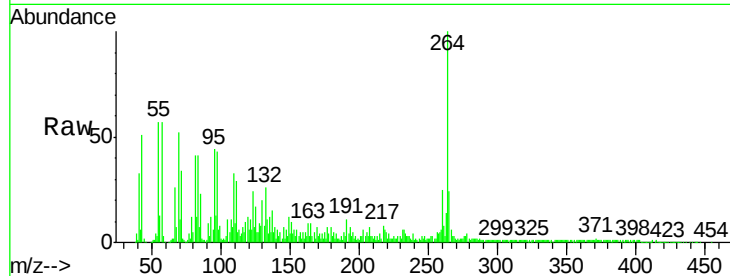
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1185
Delta R.T. 0.02 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampleId :
HY-SB415A

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.5	29.3
265	23.9	17.2	25.8

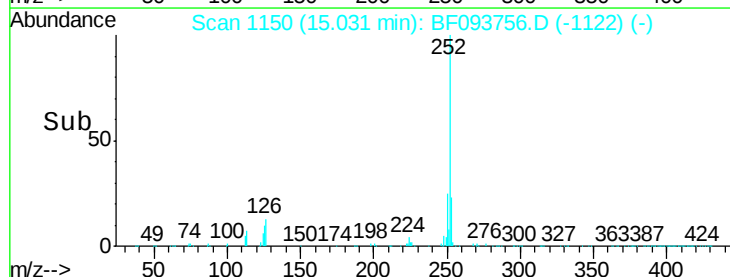
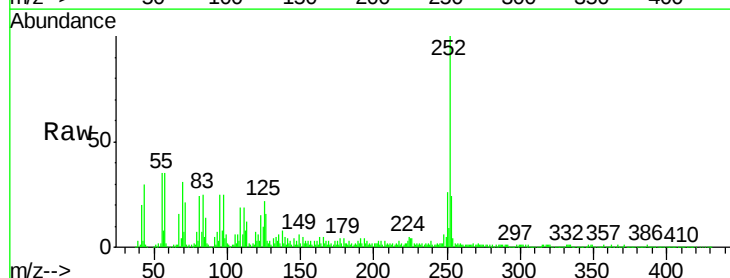
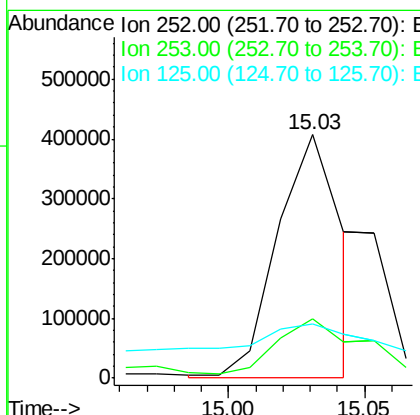
Manual Integrations
APPROVED

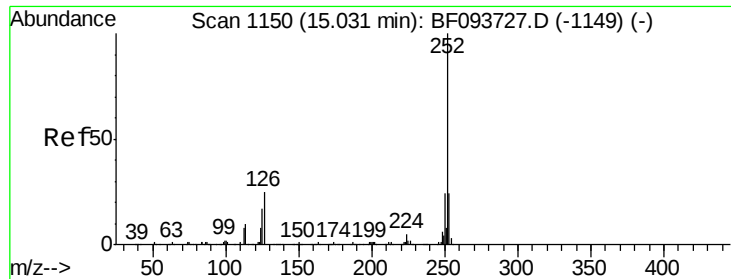
mohammad
3/20/2017 1:00:54 PM



#87
Benzo(b)fluoranthene
Concen: 33.81 ng m
RT: 15.03 min Scan# 1150
Delta R.T. 0.02 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.1	27.1
125	22.2	9.8	14.8





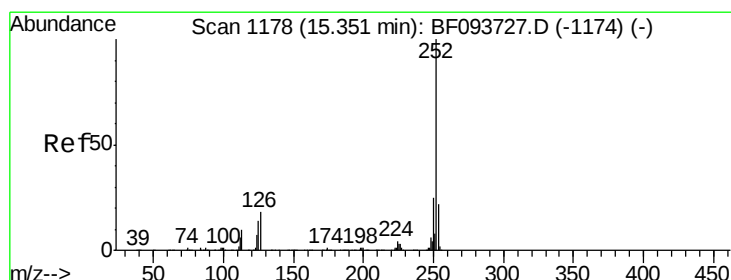
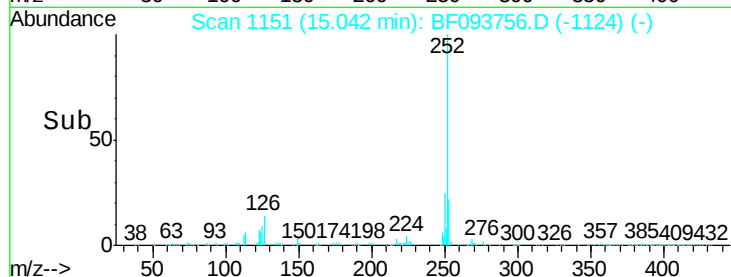
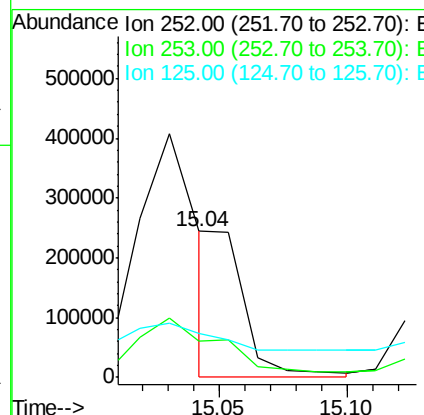
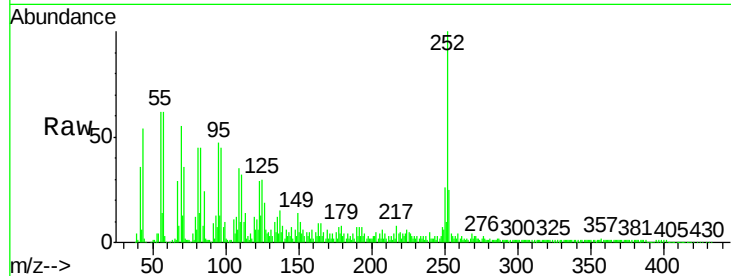
#88
Benzo(k)fluoranthene
Concen: 11.94 ng m
RT: 15.04 min Scan# 1151
Delta R.T. 0.01 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Instrument :
BNA_F
ClientSampled :
HY-SB415A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.4	27.6
125	29.9	13.1	19.7

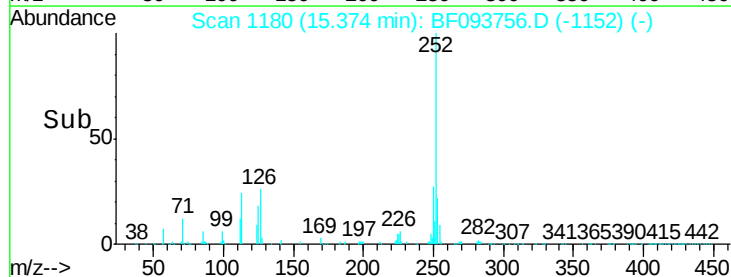
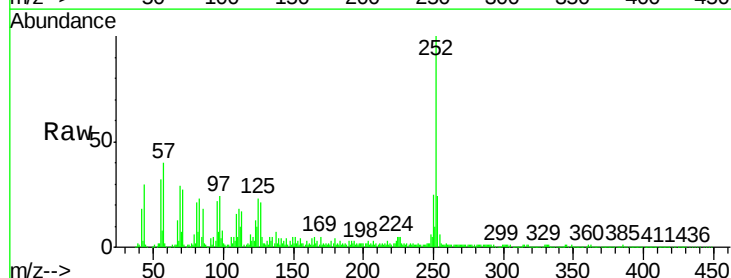
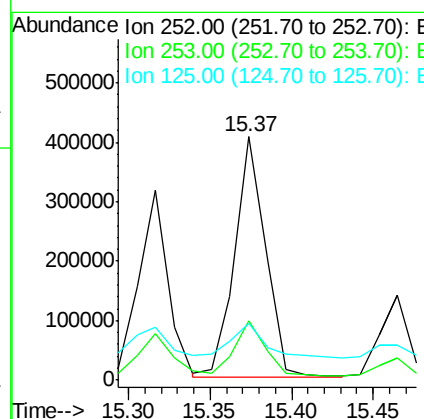
Manual Integrations
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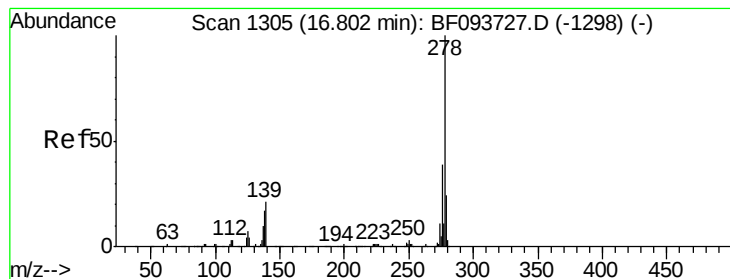
mohammad
3/20/2017 1:00:54 PM



#89
Benzo(a)pyrene
Concen: 30.30 ng
RT: 15.37 min Scan# 1180
Delta R.T. 0.02 min
Lab File: BF093756.D
Acq: 18 Mar 2017 16:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	23.1	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 7.51 ng m

RT: 16.83 min Scan# 1307

Delta R.T. 0.02 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

Instrument :

BNA_F

ClientSampleId :

HY-SB415A

Tgt Ion: 278 Resp: 110345

Ion Ratio Lower Upper

278 100

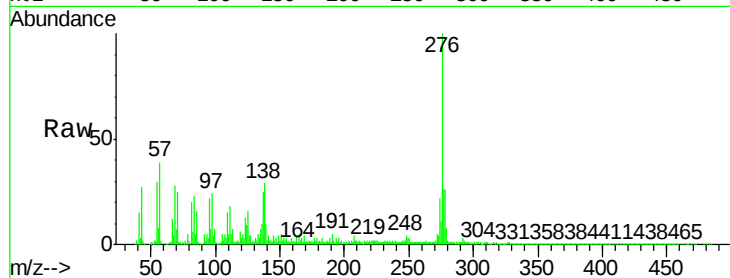
139 38.2 16.6 24.8#

279 29.6 19.3 28.9#

Manual Integrations
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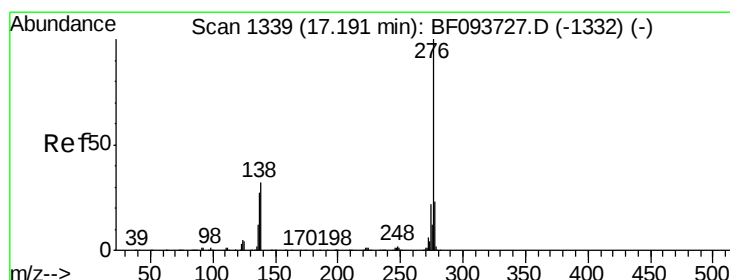
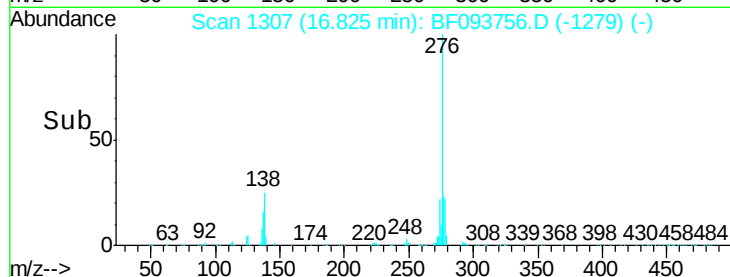
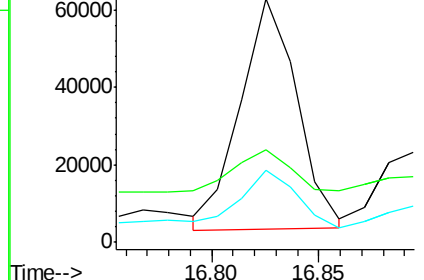
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Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 37.13 ng

RT: 17.24 min Scan# 1343

Delta R.T. 0.05 min

Lab File: BF093756.D

Acq: 18 Mar 2017 16:17

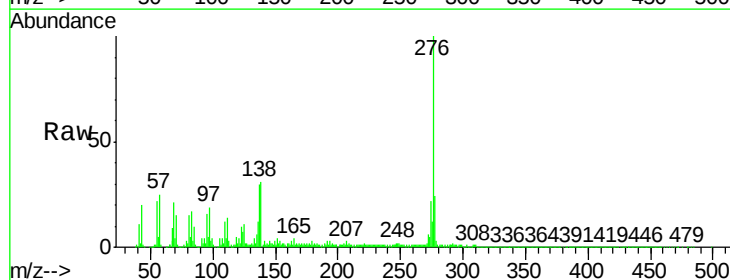
Tgt Ion: 276 Resp: 554419

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 31.2 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

