

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
 Data File : BF093452.D
 Acq On : 9 Mar 2017 2:07
 Operator : SJ/MA
 Sample : I2133-11
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB415B

Manual Integrations
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mohammad
 3/10/2017 8:12:29 AM

Quant Time: Mar 09 04:43:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 07 15:55:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	163403	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	636185	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	270596	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	391560	20.00	ng	0.01
75) Chrysene-d12	13.93	240	323601	20.00	ng	0.01
86) Perylene-d12	15.35	264	273930	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	1066852	108.66	ng	0.01
7) Phenol-d6	6.42	99	1390630	112.32	ng	0.01
23) Nitrobenzene-d5	7.34	82	755296	65.87	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	183190	103.91	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	1008594	69.33	ng	0.00
78) Terphenyl-d14	12.87	244	535220	43.00	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.32	77	38261	3.32	ng	99
10) Phenol	6.44	94	35031	2.31	ng	88
31) Naphthalene	8.08	128	155795	4.89	ng	99
49) Dimethylphthalate	9.53	163	323927	18.06	ng	99
51) Acenaphthene	9.84	154	61855	4.20	ng	94
54) Dibenzofuran	10.01	168	85201	4.63	ng	93
57) Fluorene	10.36	166	74299m	4.76	ng	
70) Phenanthrene	11.32	178	832365	37.24	ng	99
71) Anthracene	11.37	178	188880	8.35	ng	96
72) Carbazole	11.53	167	98882	4.66	ng	97
74) Fluoranthene	12.51	202	903355	41.84	ng	97
77) Pyrene	12.73	202	785732	33.39	ng	98
80) Benzo(a)anthracene	13.92	228	430291	22.52	ng	99
82) Chrysene	13.96	228	338351	19.14	ng	97
85) Indeno(1,2,3-cd)pyrene	16.73	276	144626	9.77	ng	99
87) Benzo(b)fluoranthene	14.95	252	369782m	22.16	ng	
88) Benzo(k)fluoranthene	14.96	252	177721m	11.05	ng	
89) Benzo(a)pyrene	15.29	252	282562	18.53	ng	# 95
90) Dibenzo(a,h)anthracene	16.73	278	33528	2.66	ng	# 75
91) Benzo(a,h,i)perylene	17.16	276	132221	10.21	ng	# 92

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

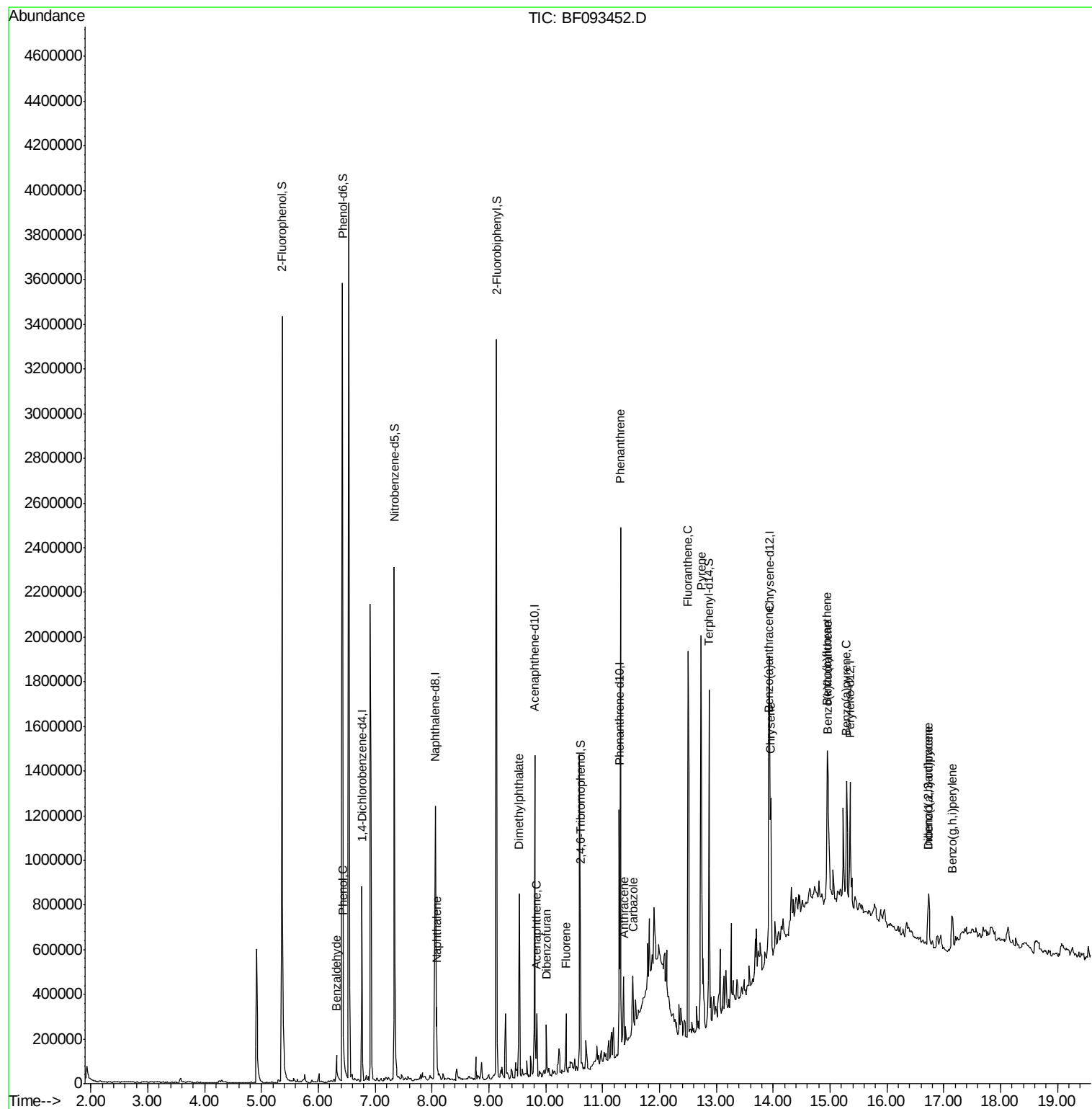
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\
Data File : BF093452.D
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ALS Vial : 24 Sample Multiplier: 1

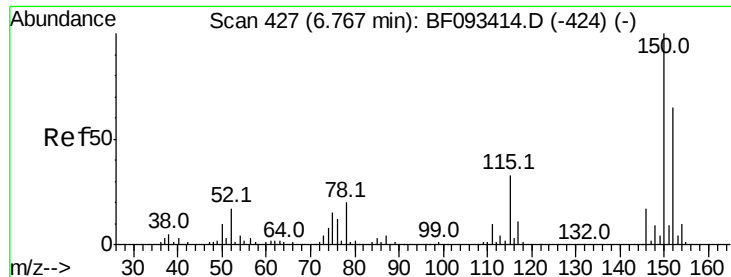
Instrument :
BNA_F
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HY-SB415B

Quant Time: Mar 09 04:43:19 2017
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#1

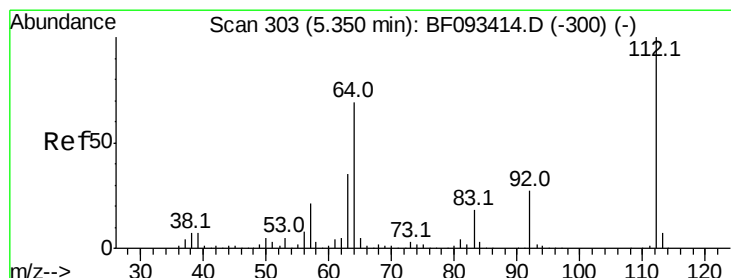
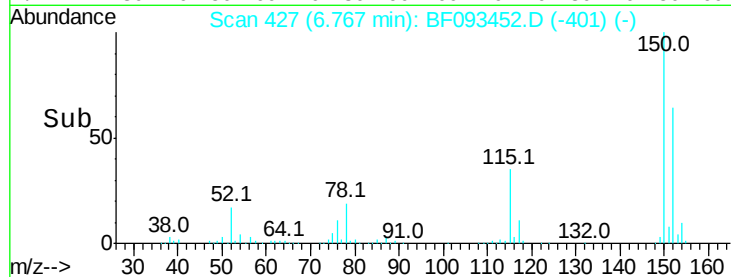
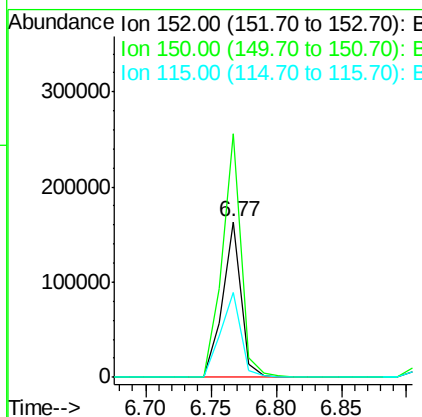
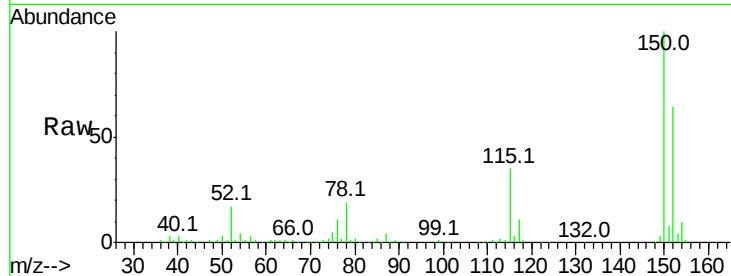
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.9	187.3
115	54.6	46.0	69.0

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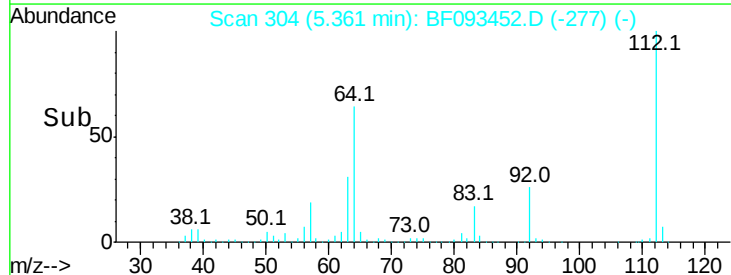
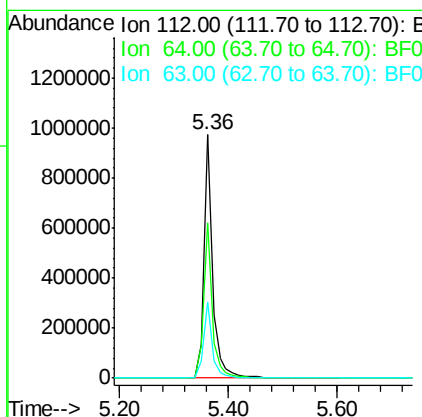
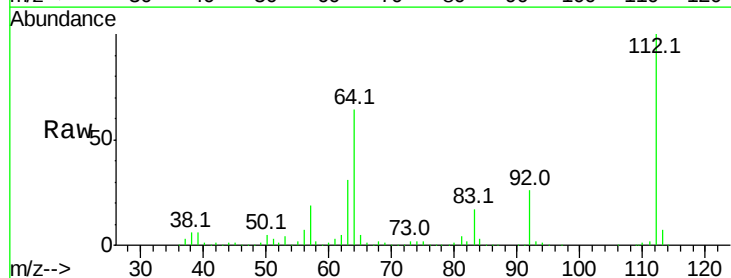
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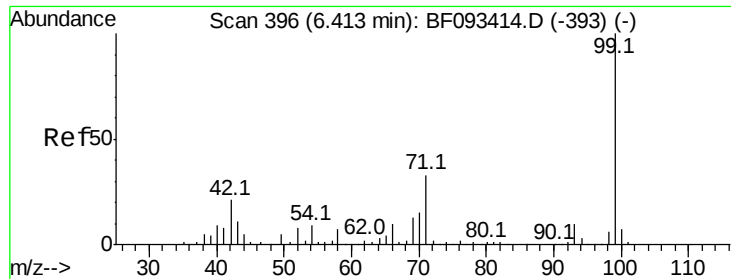


#5

2-Fluorophenol
Concen: 108.66 ng
RT: 5.36 min Scan# 304
Delta R.T. 0.01 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.8	46.1	69.1
63	31.2	23.8	35.6





#7

Phenol-d6

Concen: 112.32 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

ClientSampleId :

HY-SB415B

Tot Ion: 99 Resp: 1390630

Ion Ratio Lower Upper

99 100

42 19.3 15.6 23.4

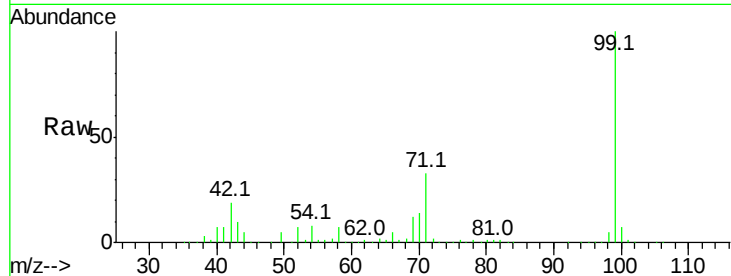
71 32.7 27.5 41.3

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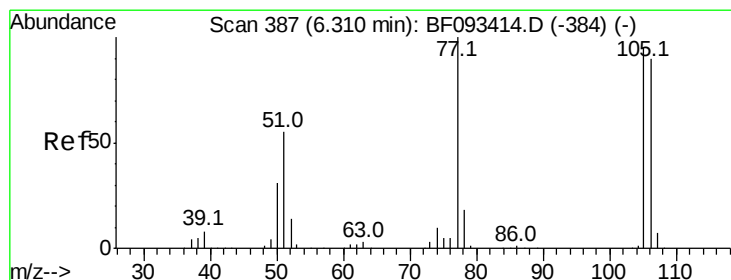
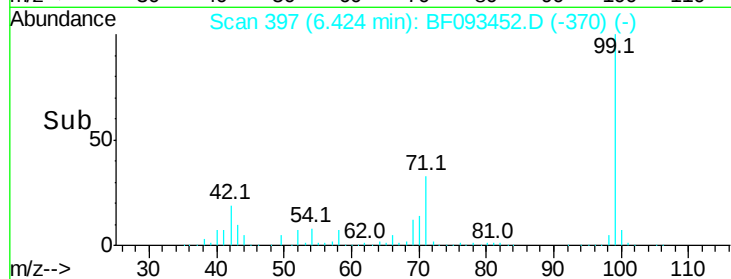
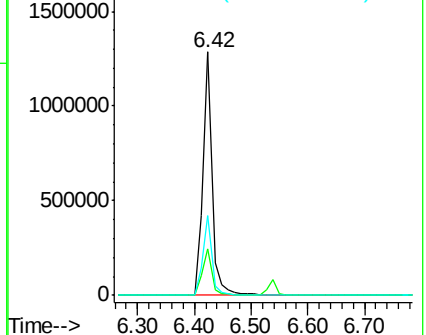
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.32 ng

RT: 6.32 min Scan# 388

Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

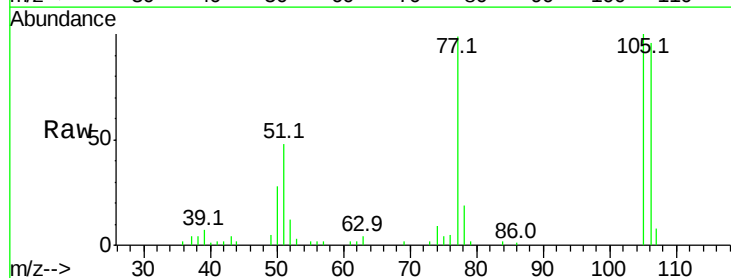
Tgt Ion: 77 Resp: 38261

Ion Ratio Lower Upper

77 100

105 101.4 83.9 123.9

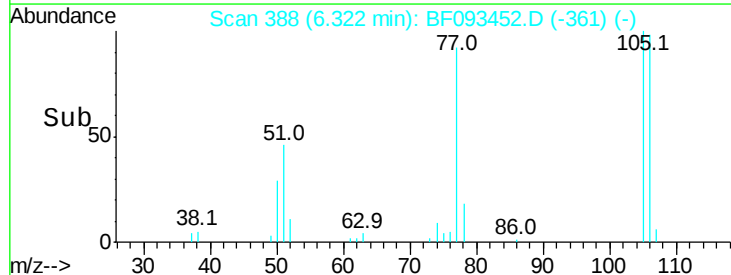
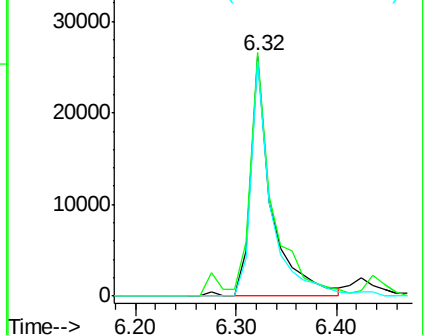
106 97.7 77.6 117.6

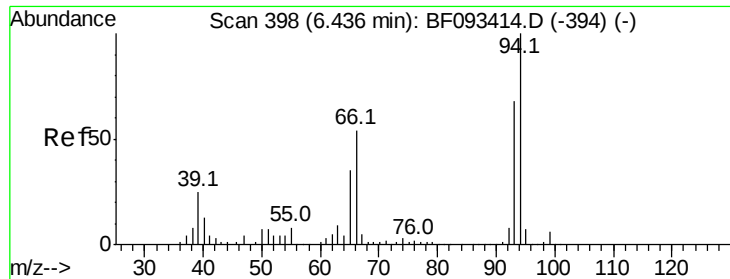


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





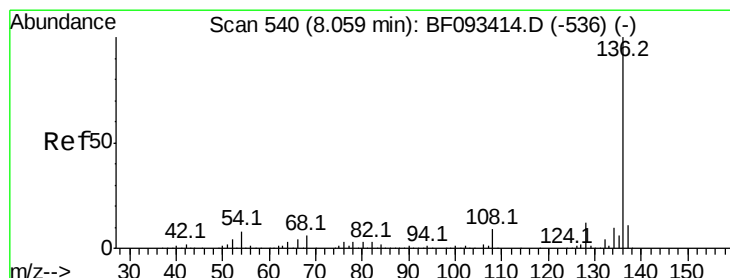
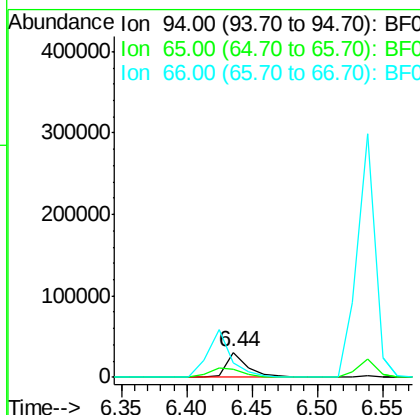
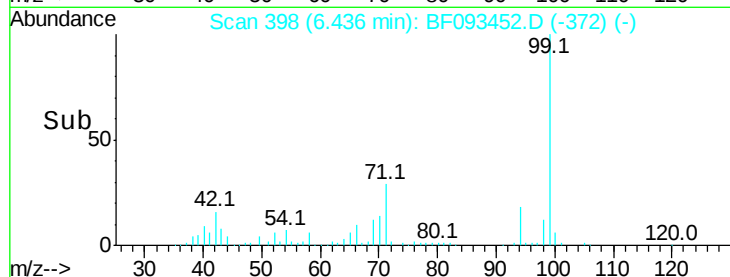
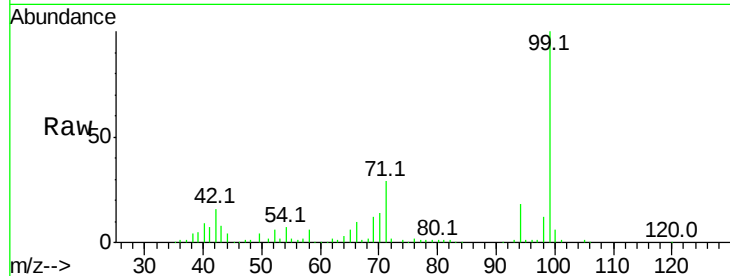
#10
Phenol
Concen: 2.31 ng
RT: 6.44 min Scan# 398
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion:	94	Resp:	35031
Ion Ratio	Lower	Upper	
94	100		
65	32.0	21.4	61.4
66	55.7	44.0	84.0

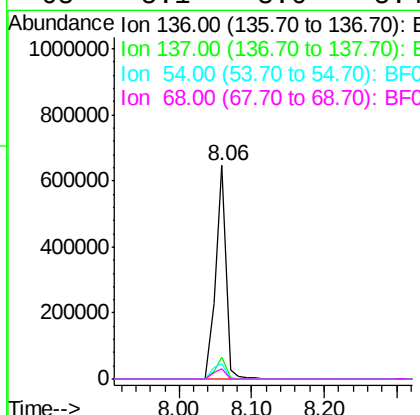
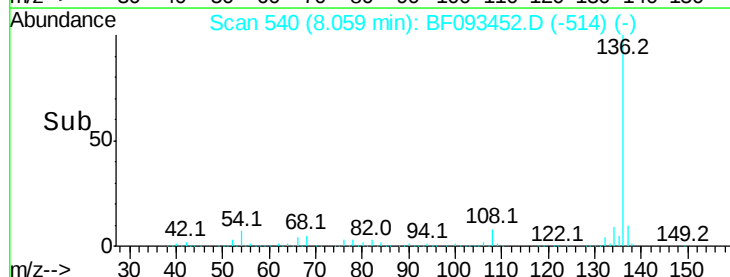
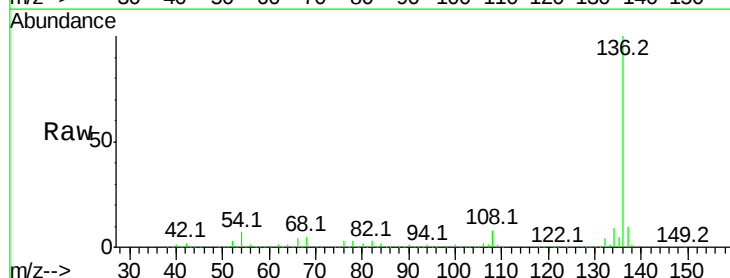
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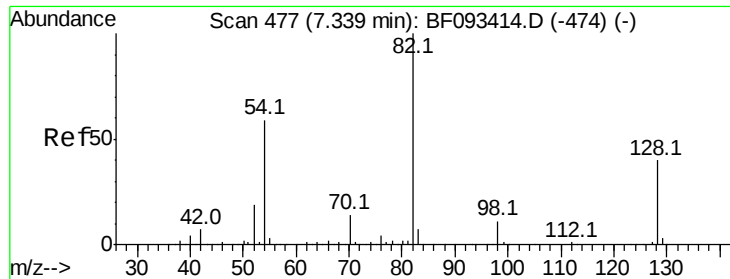
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.06 min Scan# 540
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion:	136	Resp:	636185
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.4	12.6
54	7.3	4.5	6.7#
68	5.1	3.6	5.4





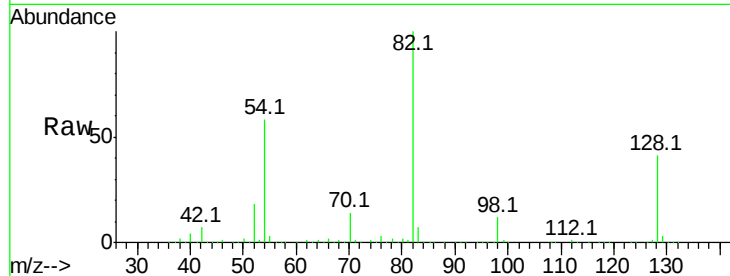
#23
Nitrobenzene-d5
Concen: 65.87 ng
RT: 7.34 min Scan# 477
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

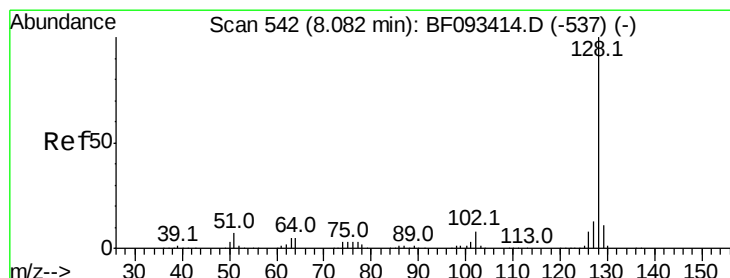
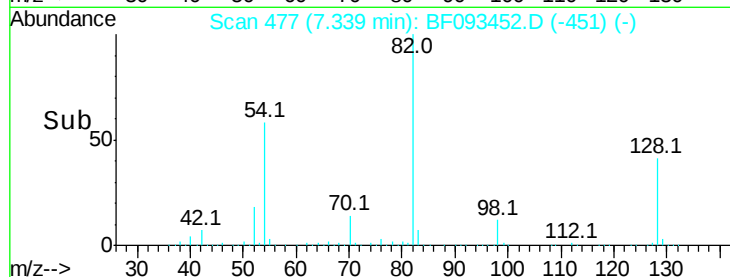
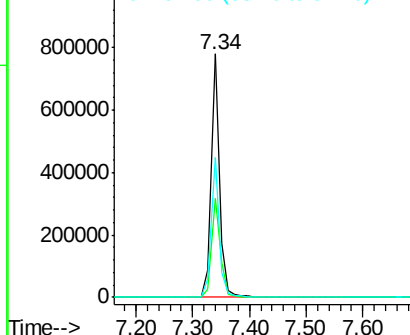
Tot Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.6	52.0
54	57.7	39.5	59.3

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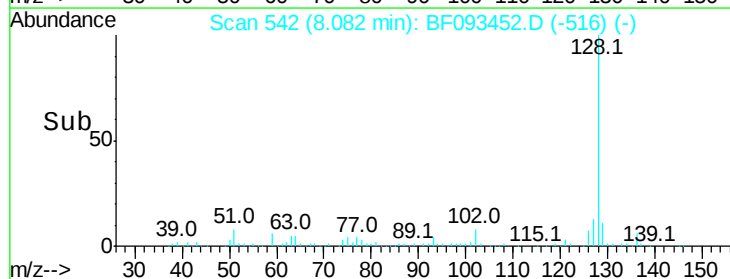
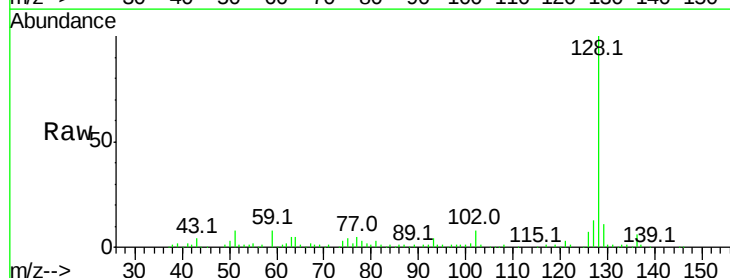
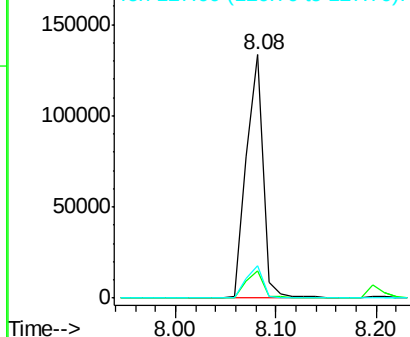
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

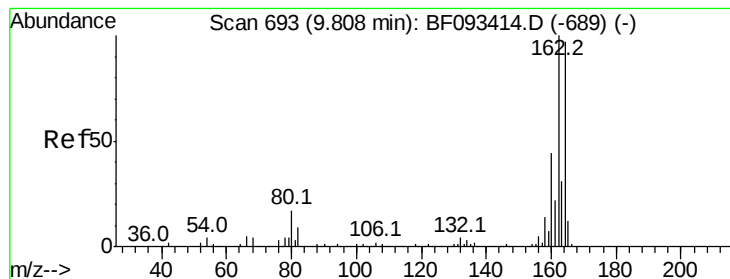


#31
Naphthalene
Concen: 4.89 ng
RT: 8.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.5	14.3
127	13.1	10.8	16.2

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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

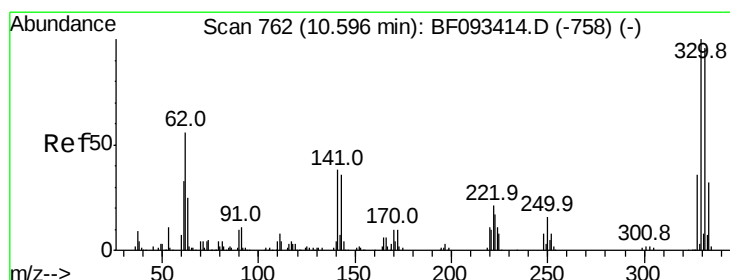
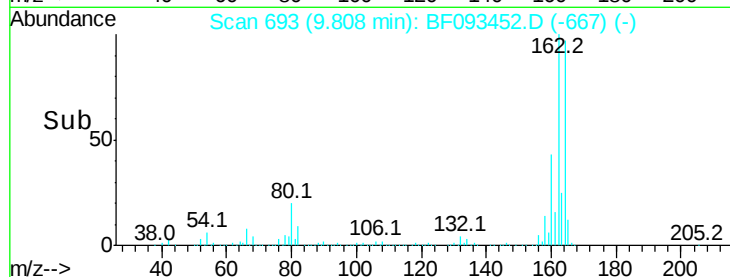
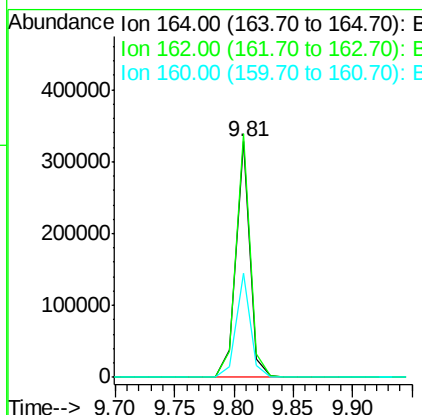
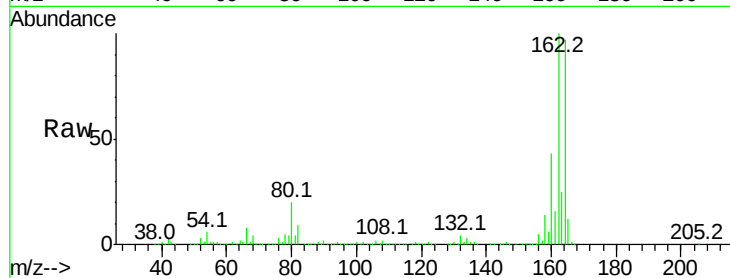
ClientSampleId :

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Tot Ion	Ratio	Resp	Lower	Upper
164	100	270596		
162	103.2		80.2	120.2
160	43.9		36.9	55.3

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#41

2,4,6-Tribromophenol

Concen: 103.91 ng

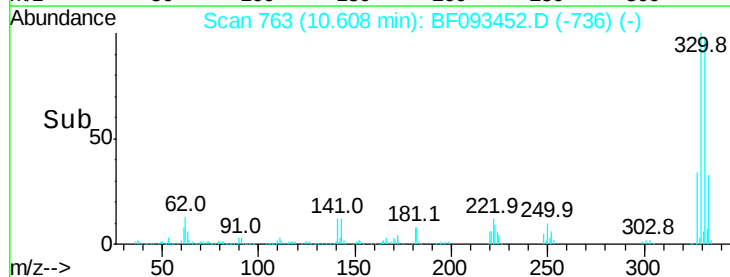
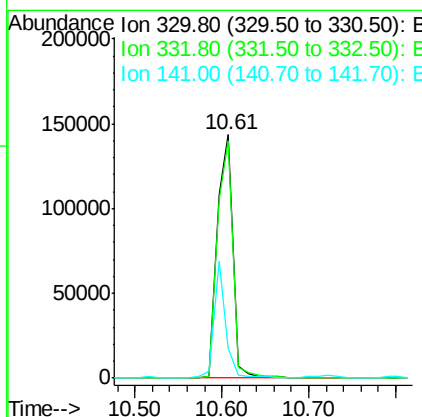
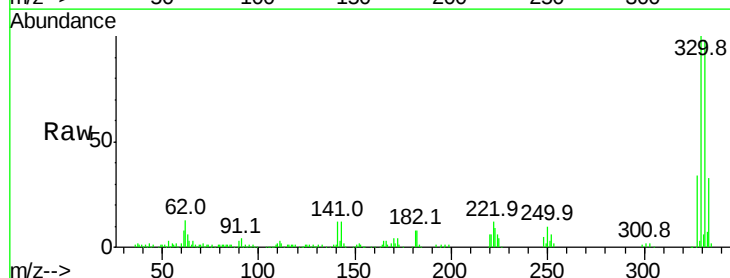
RT: 10.61 min Scan# 763

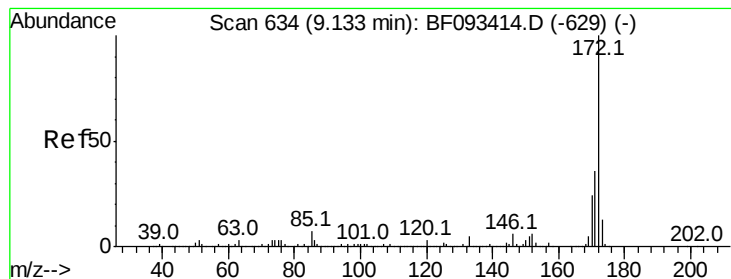
Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	183190		
332	97.7		77.4	116.2
141	36.8		34.1	51.1





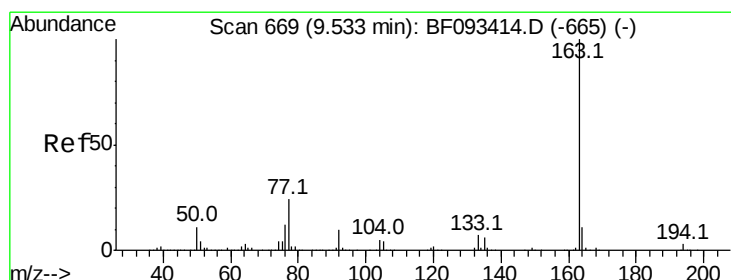
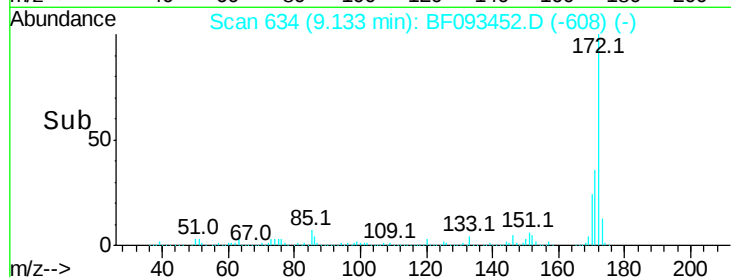
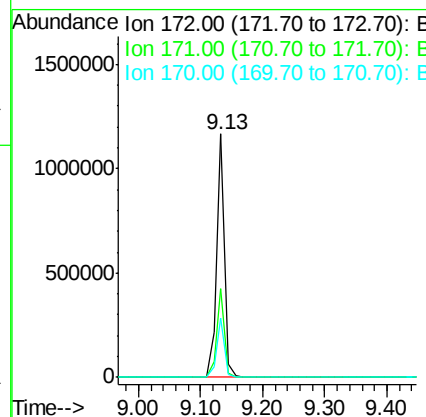
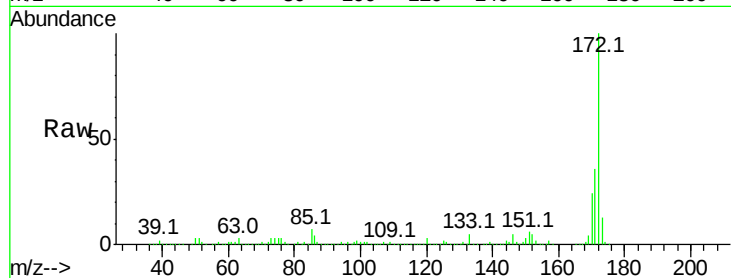
#44
2-Fluorobiphenyl
Concen: 69.33 ng
RT: 9.13 min Scan# 634
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.4	44.0
170	24.1	20.2	30.4

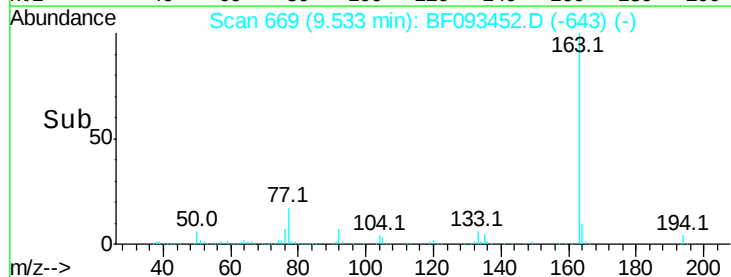
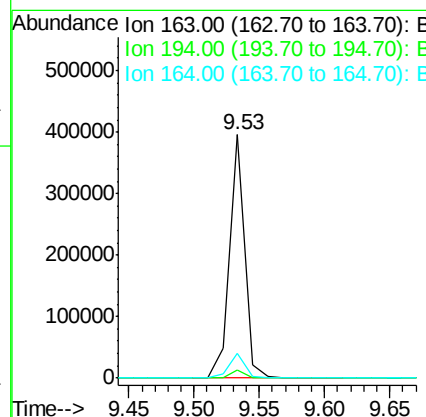
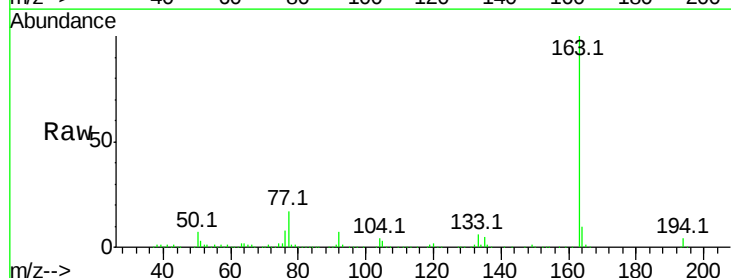
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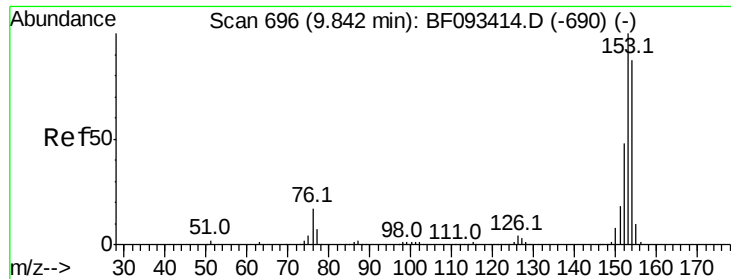
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#49
Dimethylphthalate
Concen: 18.06 ng
RT: 9.53 min Scan# 669
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.4
164	10.3	8.0	12.0





#51

Acenaphthene

Concen: 4.20 ng

RT: 9.84 min Scan# 696

Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

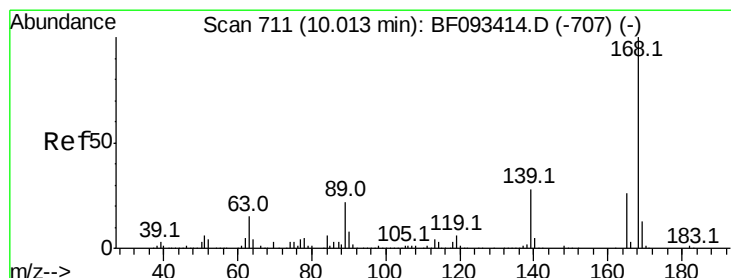
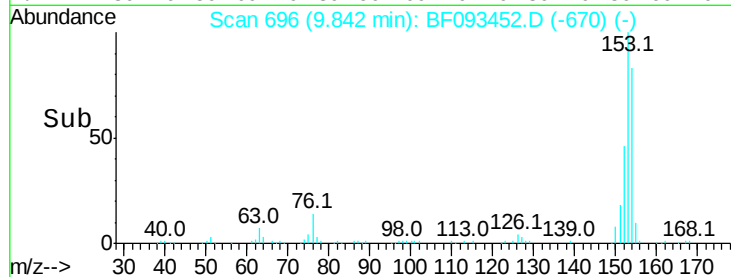
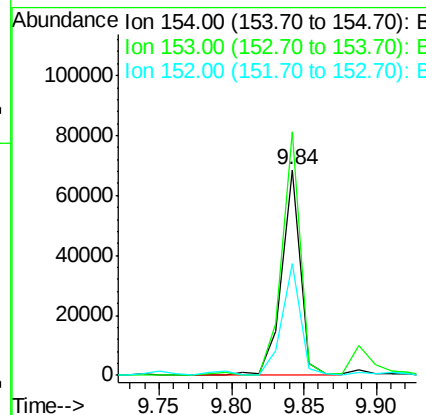
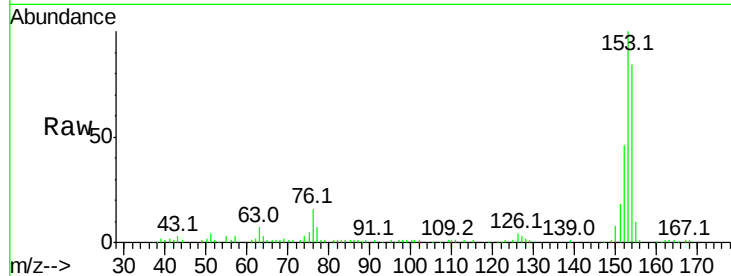
ClientSampled :

HY-SB415B

Tot Ion:	154	Resp:	61855
Ion Ratio	Lower	Upper	
154	100		
153	118.4	88.6	133.0
152	54.7	41.6	62.4

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#54

Dibenzofuran

Concen: 4.63 ng

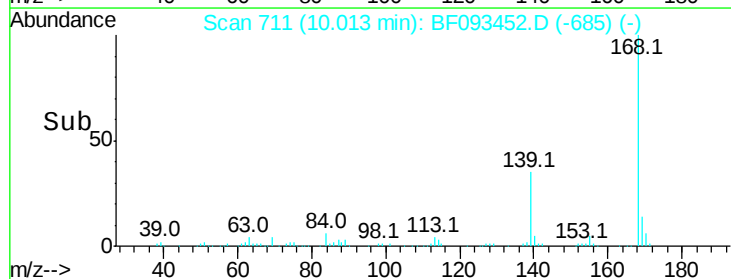
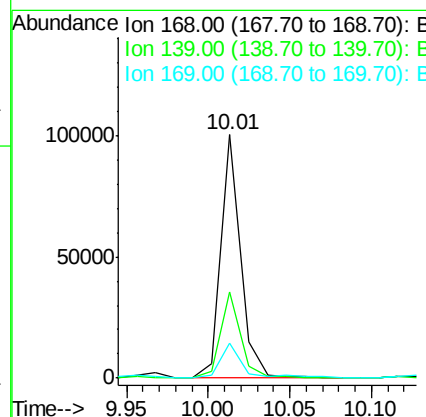
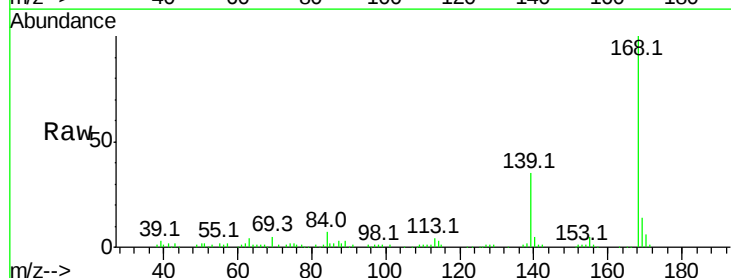
RT: 10.01 min Scan# 711

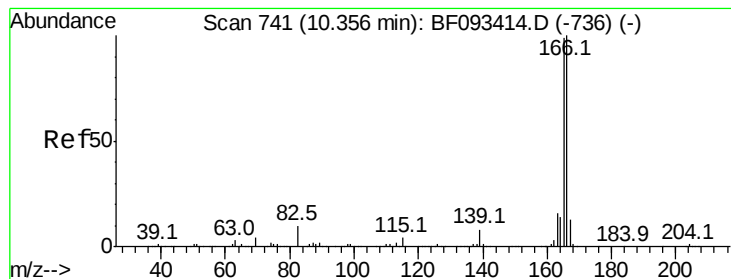
Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Tgt Ion:	168	Resp:	85201
Ion Ratio	Lower	Upper	
168	100		
139	35.3	32.6	49.0
169	14.4	11.3	16.9





#57

Fluorene

Concen: 4.76 ng/mL

RT: 10.36 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

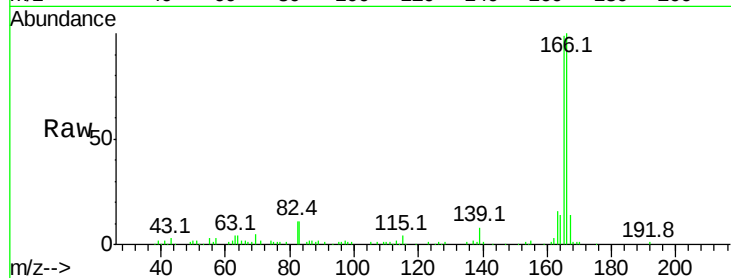
ClientSampleId :

HY-SB415B

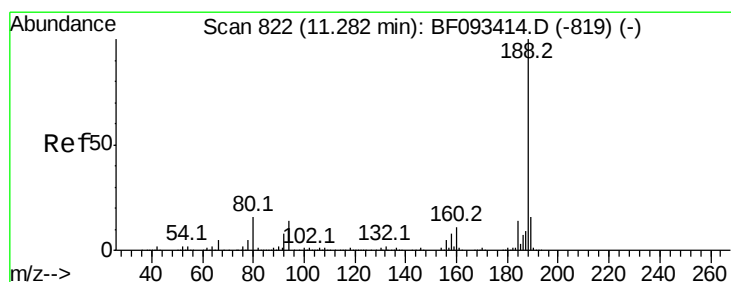
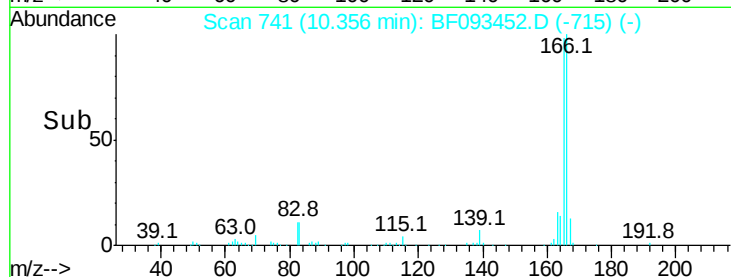
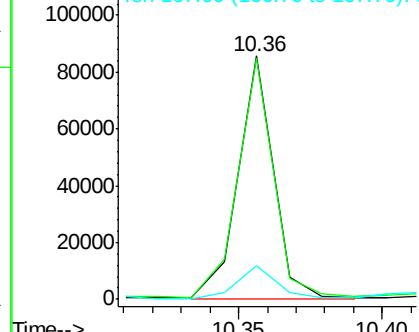
Tot Ion:	166	Resp:	74299
Ion Ratio	Lower	Upper	
166	100		
165	98.9	77.8	116.8
167	13.7	10.8	16.2

Manual Integrations
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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/mL

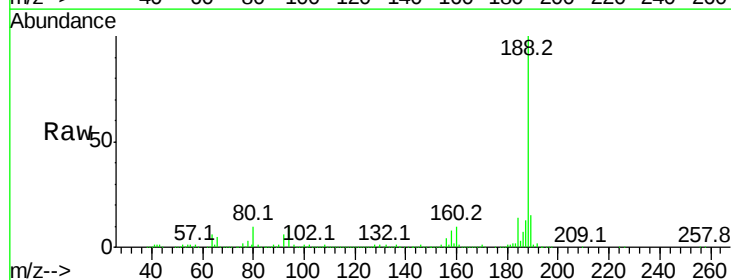
RT: 11.29 min Scan# 823

Delta R.T. 0.01 min

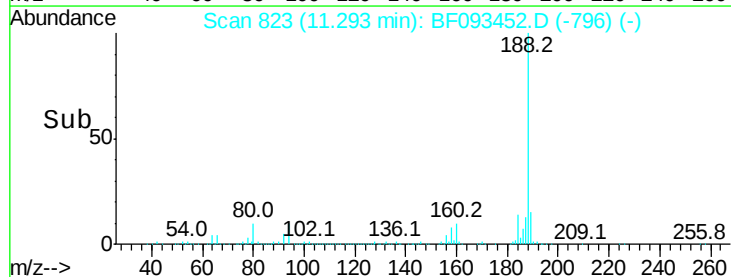
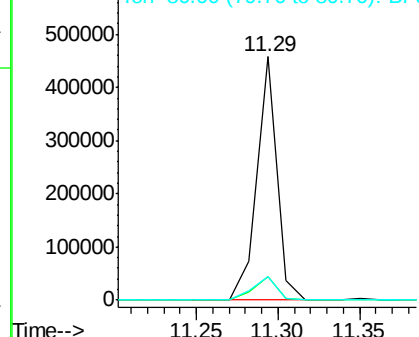
Lab File: BF093452.D

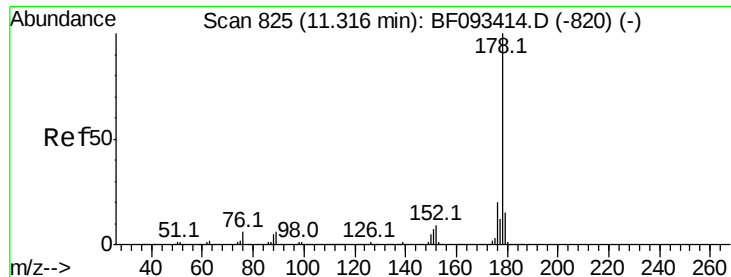
Acq: 9 Mar 2017 2:07

Tgt Ion:	188	Resp:	391560
Ion Ratio	Lower	Upper	
188	100		
94	9.7	10.0	15.0#
80	9.7	11.2	16.8#



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





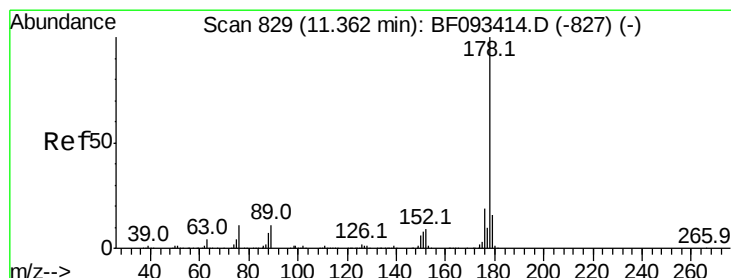
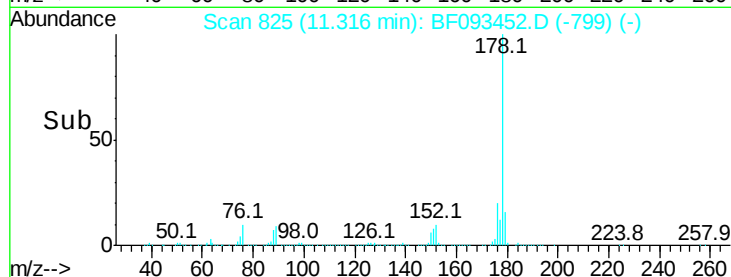
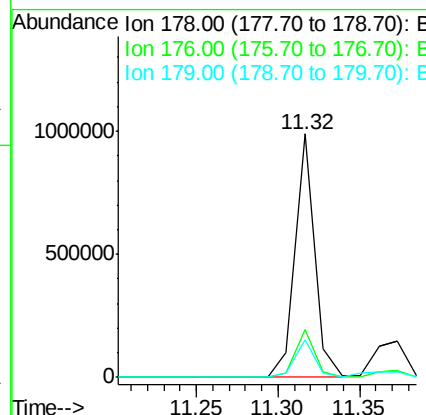
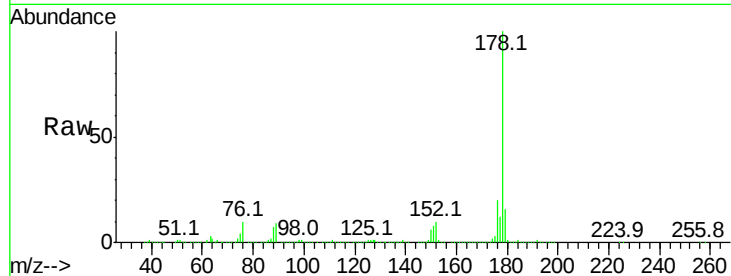
#70
Phenanthrene
Concen: 37.24 ng
RT: 11.32 min Scan# 825
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.6	25.0
179	15.6	12.8	19.2

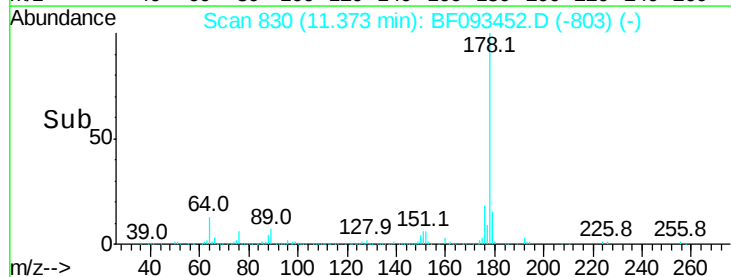
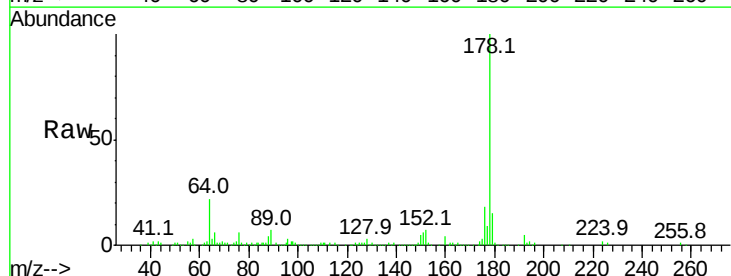
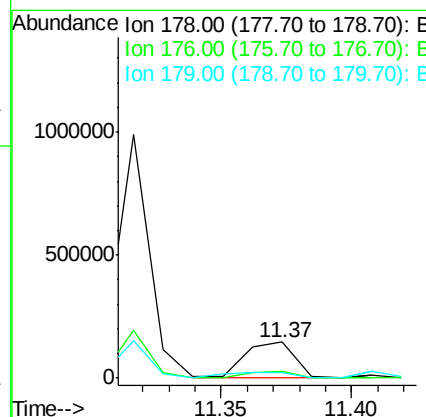
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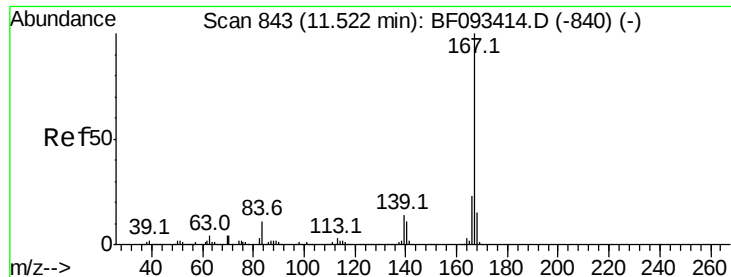
mohammad
3/10/2017 8:12:29 AM



#71
Anthracene
Concen: 8.35 ng
RT: 11.37 min Scan# 830
Delta R.T. 0.01 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.9	23.9
179	14.9	13.2	19.8





#72

Carbazole

Concen: 4.66 ng

RT: 11.53 min Scan# 844

Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

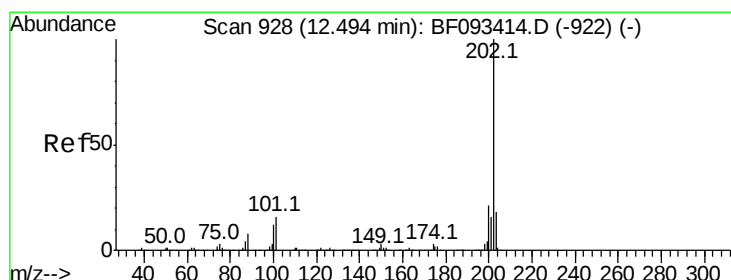
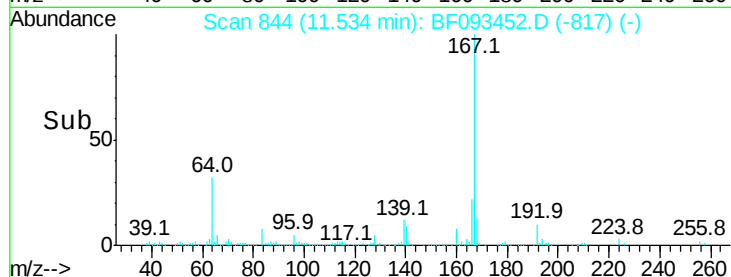
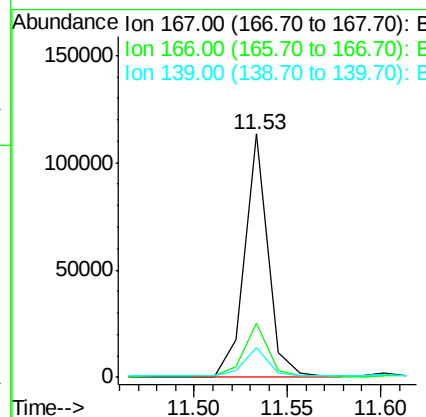
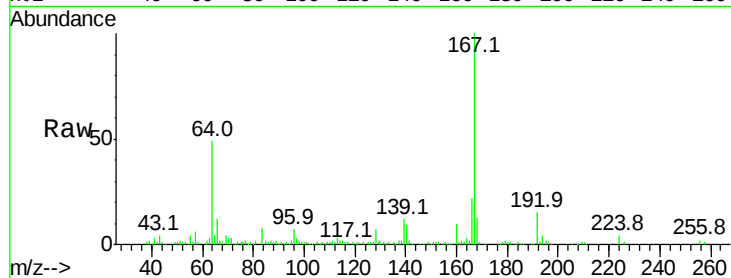
ClientSampleId :

HY-SB415B

Tot Ion:	167	Resp:	98882
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.2	27.2
139	12.1	11.4	17.2

Manual Integrations
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#74

Fluoranthene

Concen: 41.84 ng

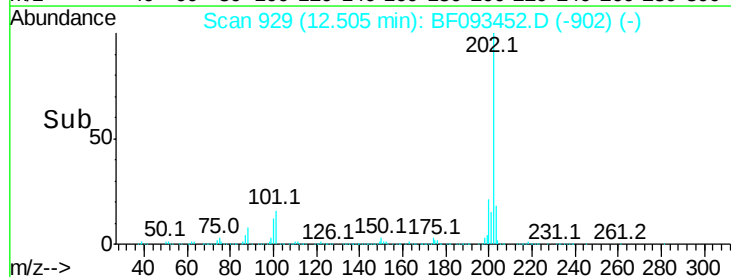
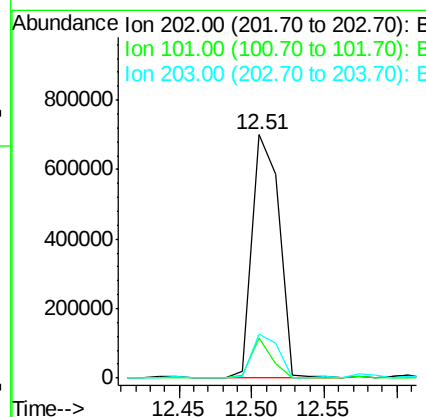
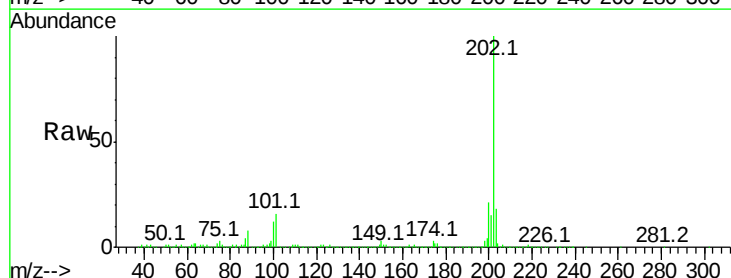
RT: 12.51 min Scan# 929

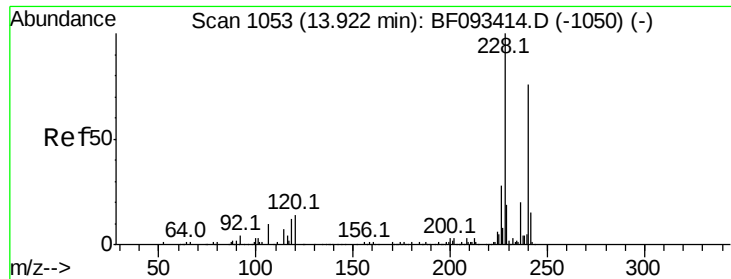
Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Tgt Ion:	202	Resp:	903355
Ion Ratio	Lower	Upper	
202	100		
101	16.4	0.0	34.6
203	18.0	0.0	38.7





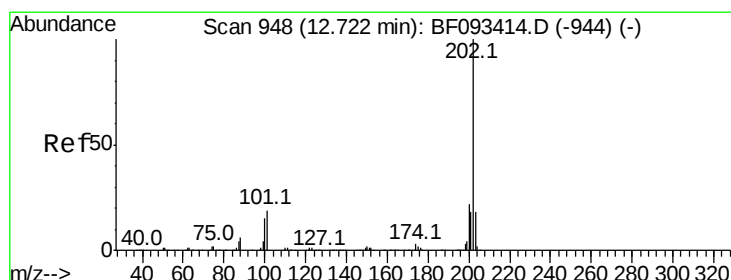
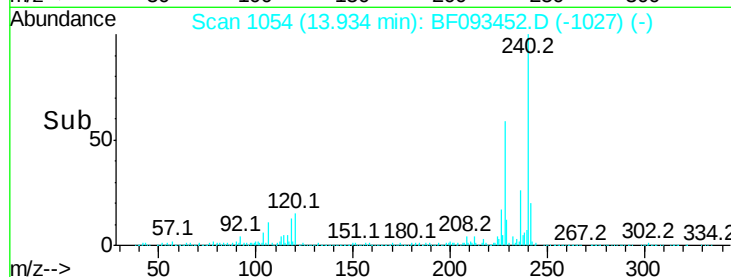
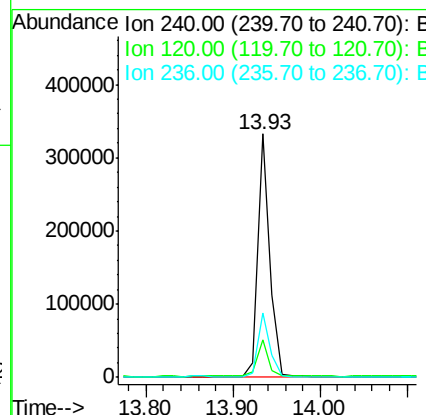
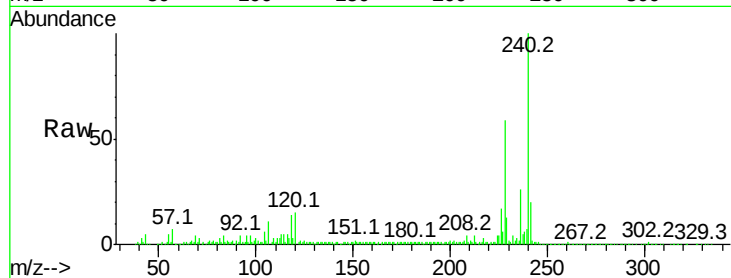
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.93 min Scan# 1054
 Delta R.T. 0.01 min
 Lab File: BF093452.D
 Acq: 9 Mar 2017 2:07

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB415B

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.4	12.9	19.3
236	26.5	20.9	31.3

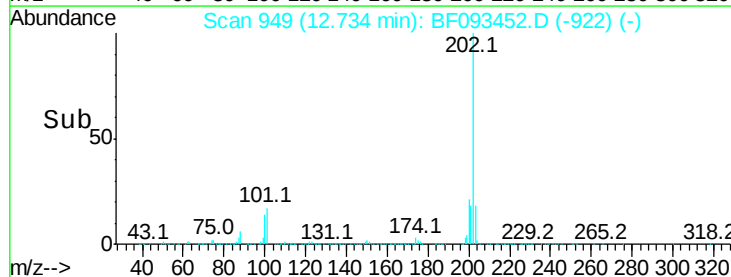
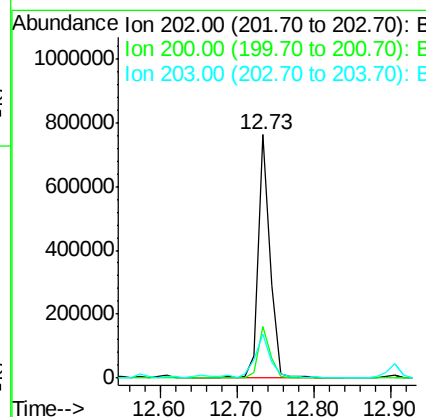
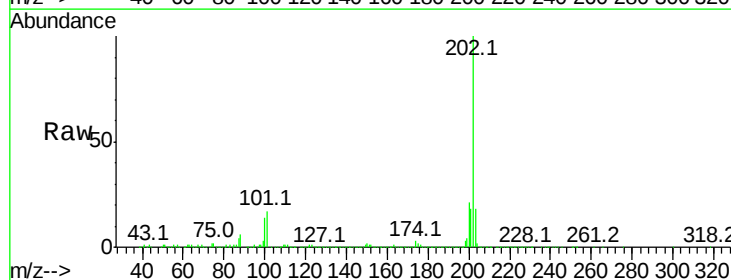
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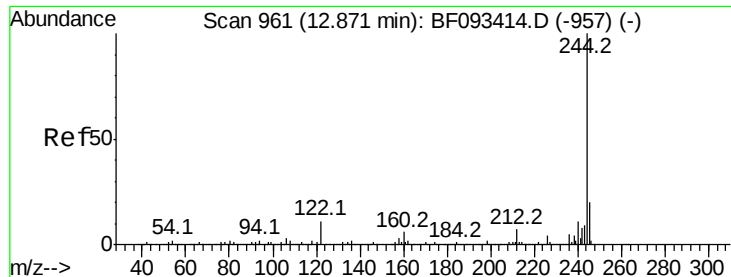
mohammad
 3/10/2017 8:12:29 AM



#77
 Pyrene
 Concen: 33.39 ng
 RT: 12.73 min Scan# 949
 Delta R.T. 0.01 min
 Lab File: BF093452.D
 Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.7	26.5
203	17.9	14.7	22.1





#78

Terphenyl-d14

Concen: 43.00 ng

RT: 12.87 min Scan# 961

Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

ClientSampleId :

HY-SB415B

Tot Ion:244 Resp: 535220

Ion Ratio Lower Upper

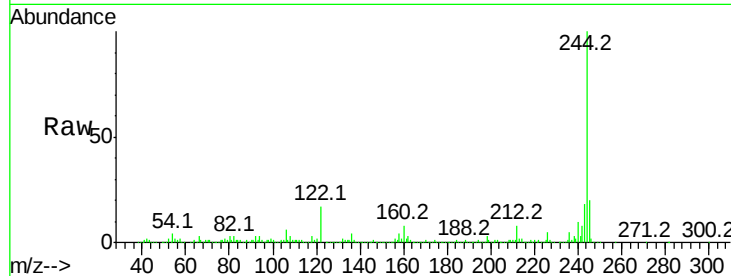
244 100

212 7.6 6.2 9.2

122 16.7 11.4 17.2

Manual Integrations
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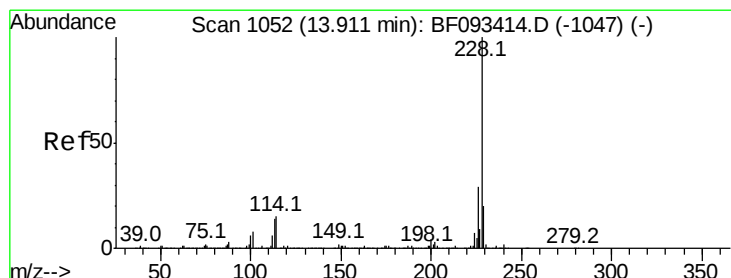
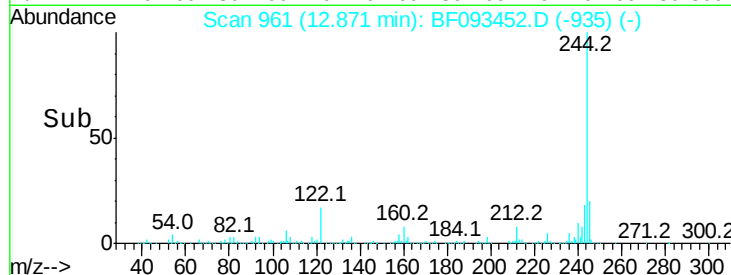
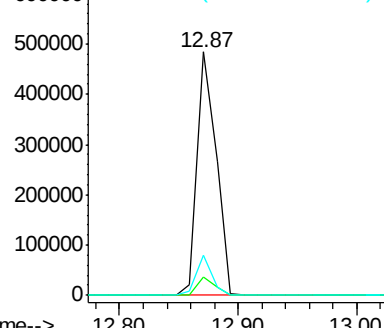
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 22.52 ng

RT: 13.92 min Scan# 1053

Delta R.T. 0.01 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

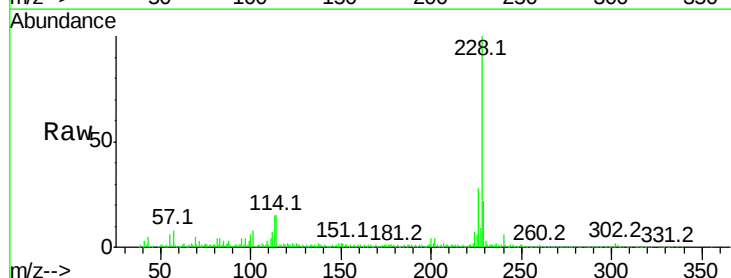
Tgt Ion:228 Resp: 430291

Ion Ratio Lower Upper

228 100

226 28.2 22.4 33.6

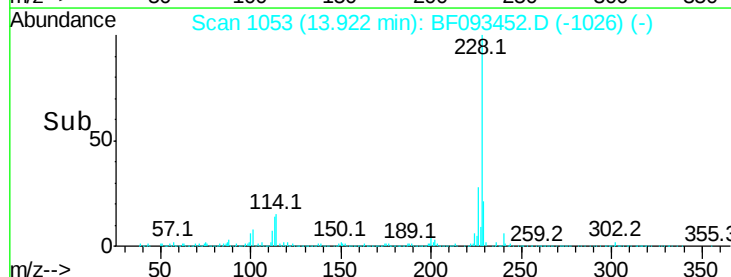
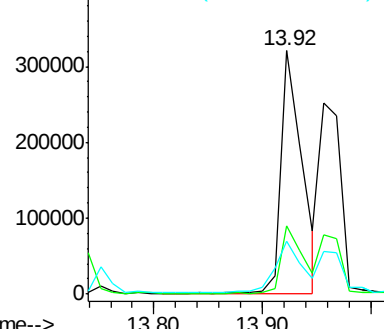
229 21.7 16.2 24.4

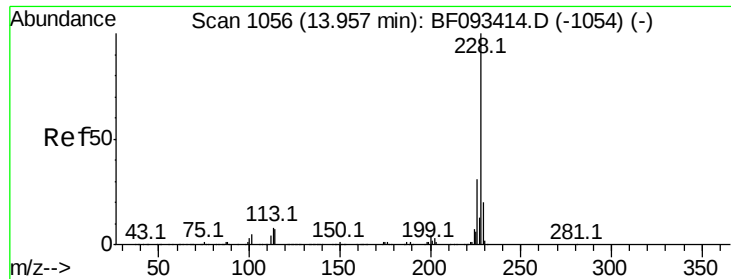


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 19.14 ng

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

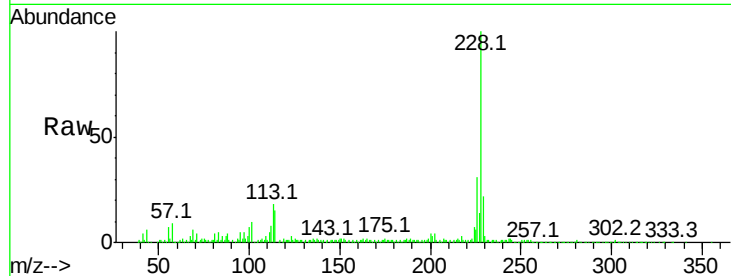
ClientSampleId :

HY-SB415B

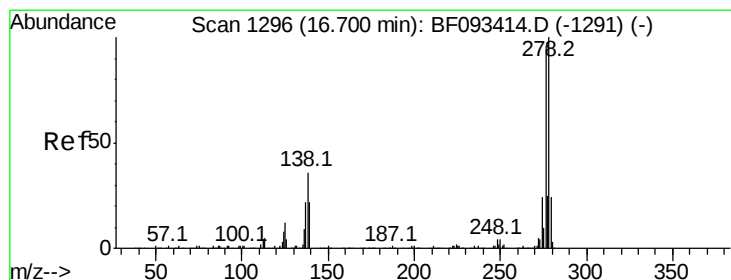
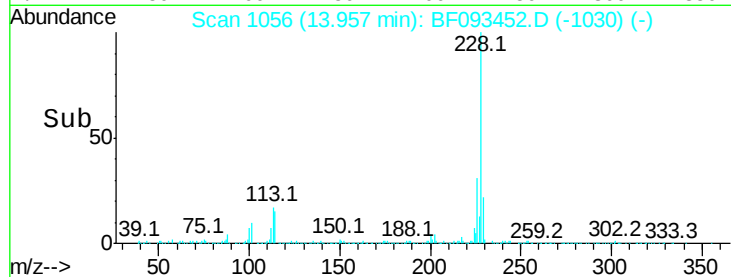
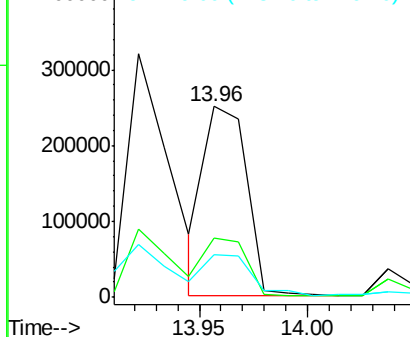
Tot Ion:	228	Resp:	338351
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.4	38.0
229	22.2	16.2	24.2

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.77 ng

RT: 16.73 min Scan# 1299

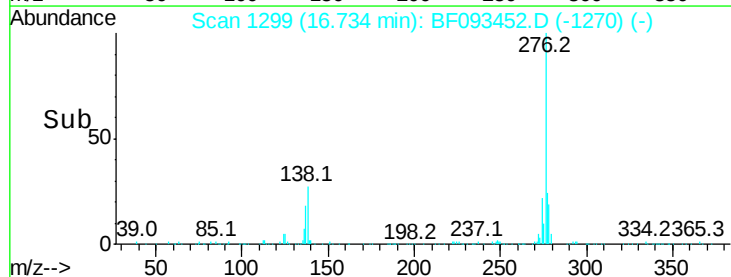
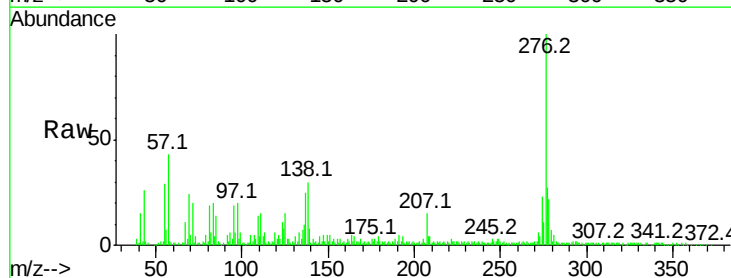
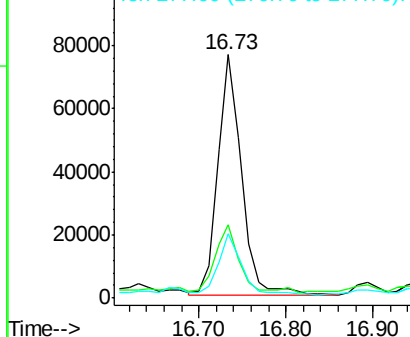
Delta R.T. 0.03 min

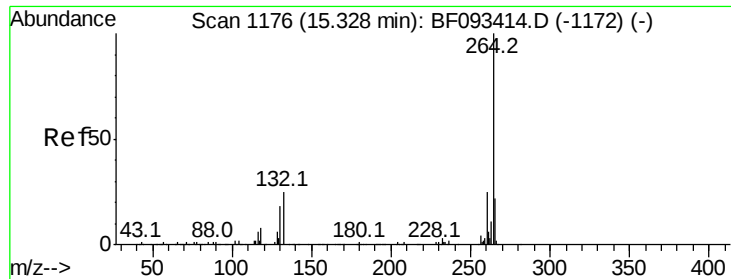
Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Tgt Ion:	276	Resp:	144626
Ion Ratio	Lower	Upper	
276	100		
138	27.4	21.8	32.6
277	24.7	20.2	30.4

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





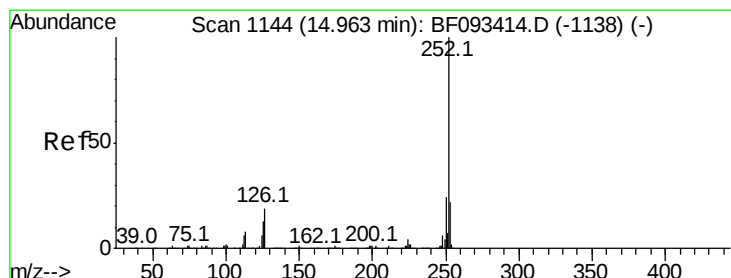
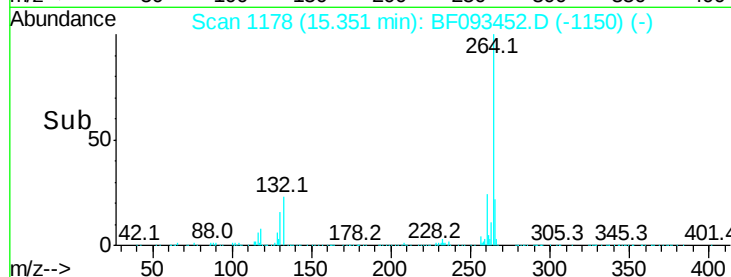
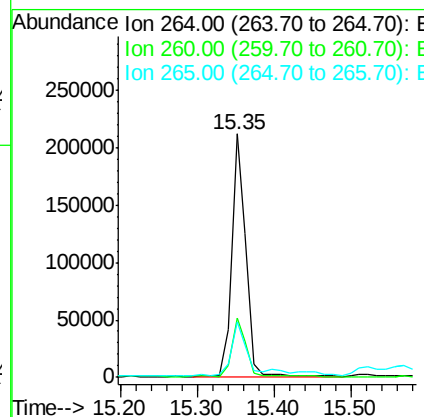
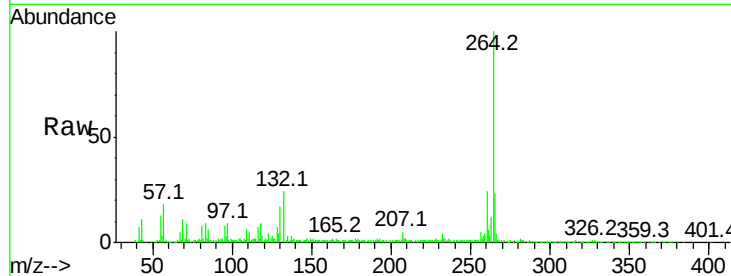
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.35 min Scan# 1178
Delta R.T. 0.02 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	23.0	17.4	26.0

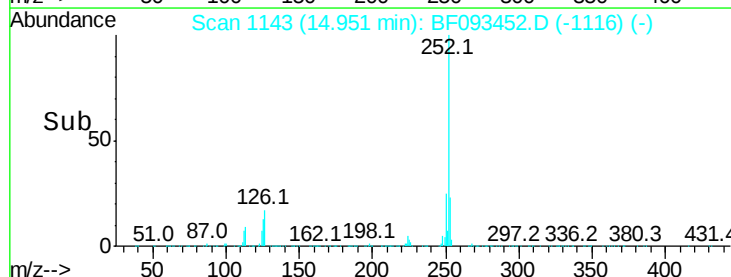
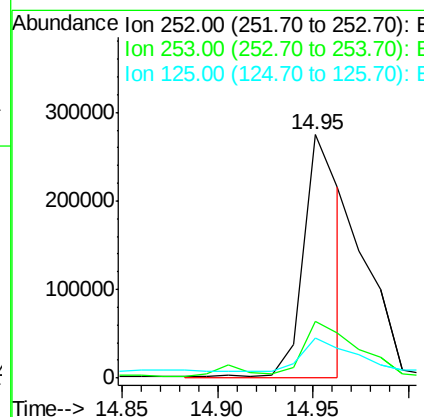
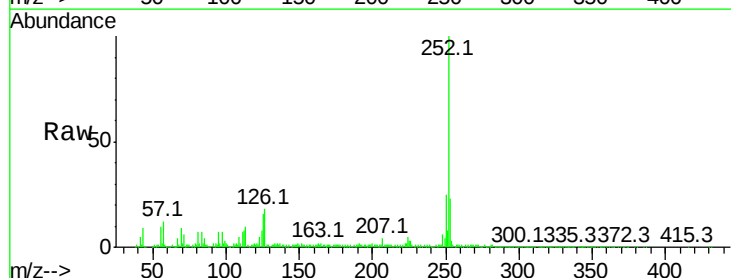
Manual Integrations
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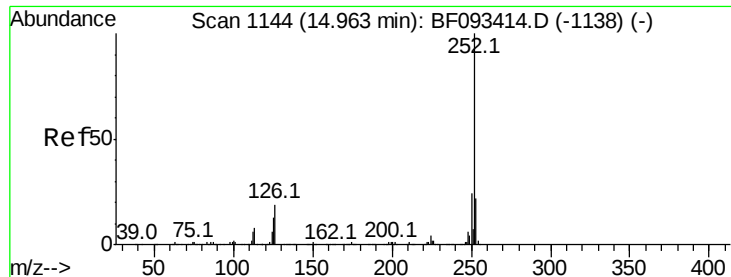
mohammad
3/10/2017 8:12:29 AM



#87
Benzo(b)fluoranthene
Concen: 22.16 ng m
RT: 14.95 min Scan# 1143
Delta R.T. 0.01 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	16.4	9.8	14.6





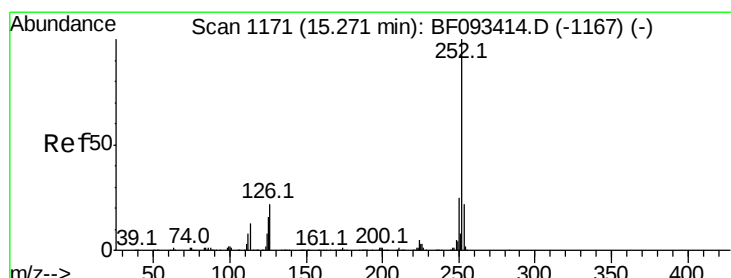
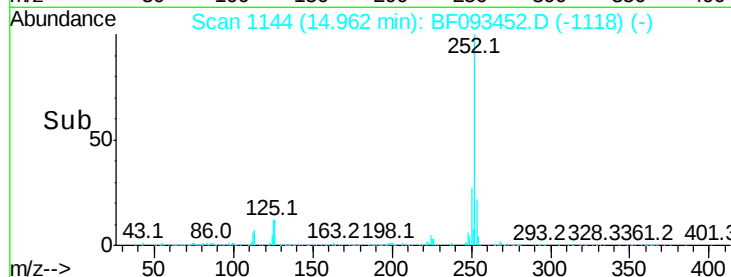
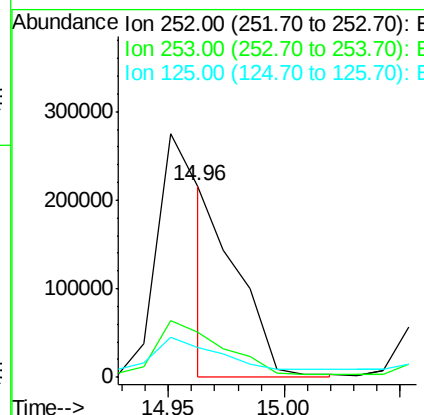
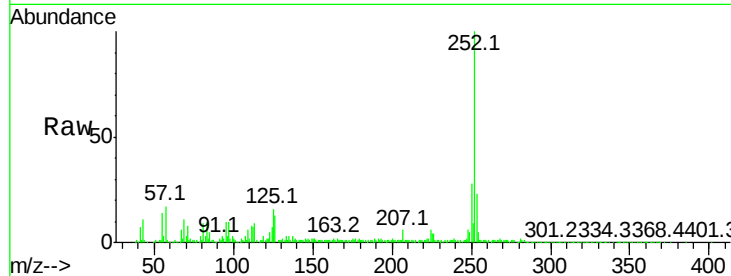
#88
Benzo(k)fluoranthene
Concen: 11.05 ng m
RT: 14.96 min Scan# 1144
Delta R.T. -0.00 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Instrument :
BNA_F
ClientSampleId :
HY-SB415B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	15.8	8.9	13.3

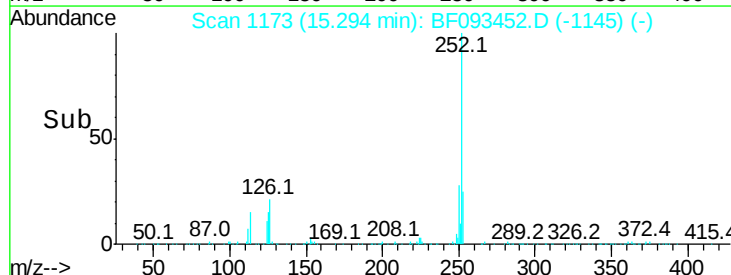
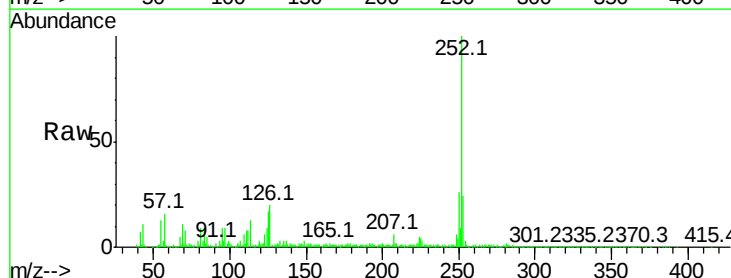
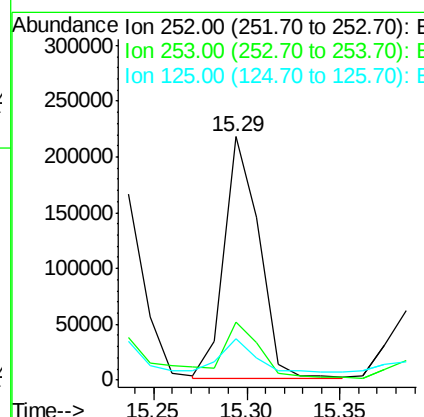
Manual Integrations
APPROVED

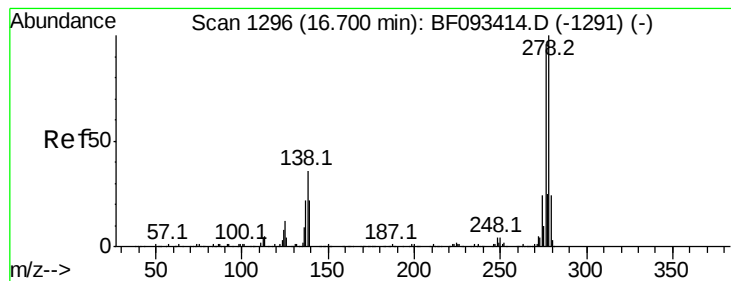
mohammad
3/10/2017 8:12:29 AM



#89
Benzo(a)pyrene
Concen: 18.53 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.02 min
Lab File: BF093452.D
Acq: 9 Mar 2017 2:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	17.2	10.0	15.0





#90

Dibenzo(a,h)anthracene

Concen: 2.66 ng

RT: 16.73 min Scan# 1299

Delta R.T. 0.03 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

Instrument :

BNA_F

ClientSampleId :

HY-SB415B

Tot Ion:278 Resp: 33528

Ion Ratio Lower Upper

278 100

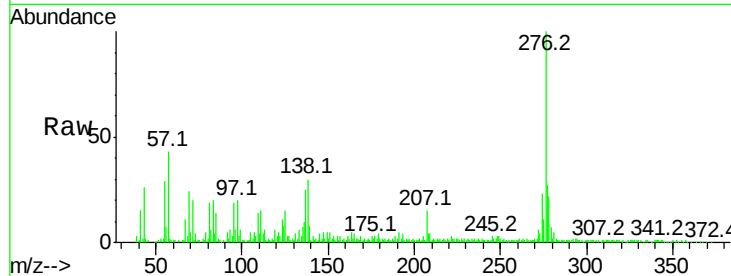
139 34.8 14.8 22.2#

279 32.7 19.8 29.6#

Manual Integrations
APPROVED

mohammad

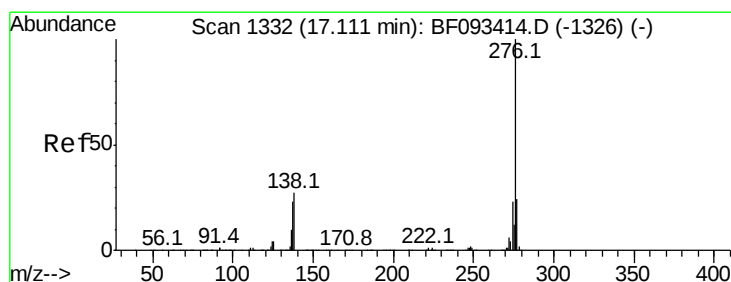
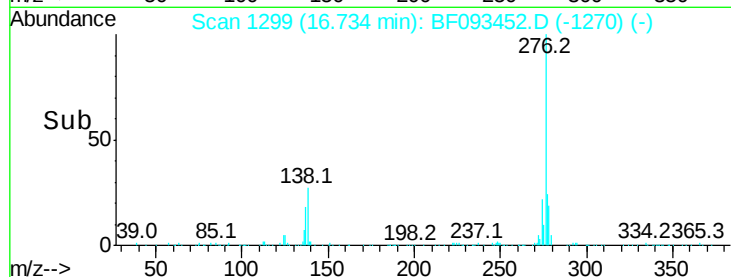
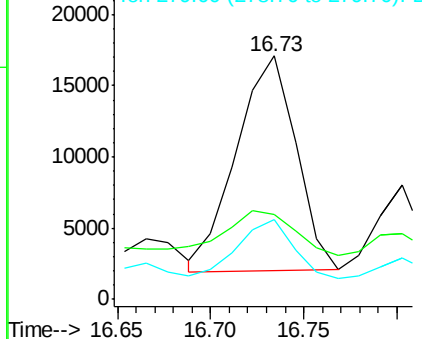
3/10/2017 8:12:29 AM



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: 10.21 ng

RT: 17.16 min Scan# 1336

Delta R.T. 0.05 min

Lab File: BF093452.D

Acq: 9 Mar 2017 2:07

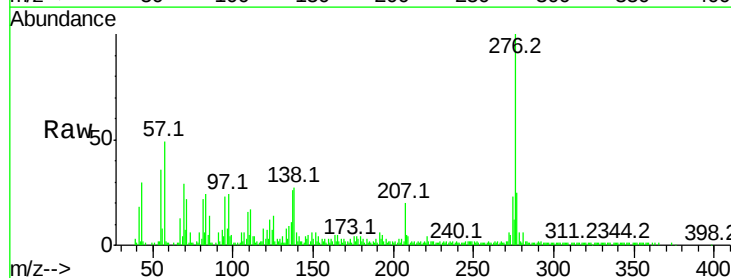
Tgt Ion:276 Resp: 132221

Ion Ratio Lower Upper

276 100

277 25.0 19.2 28.8

138 27.3 16.0 24.0#



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

