

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031117\
 Data File : BF093599.D
 Acq On : 12 Mar 2017 9:00
 Operator : SJ/MA
 Sample : I2133-02DL 2X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422ADL

Manual Integrations
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Quant Time: Mar 13 18:46:09 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	181109	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	620459	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	273899	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	390224	20.00	ng	0.00
75) Chrysene-d12	13.89	240	307248	20.00	ng	0.00
86) Perylene-d12	15.29	264	260911	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	927871	85.27	ng	0.00
7) Phenol-d6	6.38	99	1229045	89.57	ng	0.00
23) Nitrobenzene-d5	7.29	82	623723	55.78	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	134055	75.12	ng	0.00
44) 2-Fluorobiphenyl	9.09	172	980582	66.59	ng	0.00
78) Terphenyl-d14	12.83	244	574757	48.64	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	139986	4.50	ng	97
37) 2-Methylnaphthalene	8.72	142	76273	3.86	ng	99
48) Acenaphthylene	9.62	152	86709	3.44	ng	96
49) Dimethylphthalate	9.49	163	653595	35.99	ng	99
51) Acenaphthene	9.80	154	131888	8.85	ng	96
54) Dibenzofuran	9.97	168	136253	7.31	ng	95
57) Fluorene	10.31	166	101496	6.42	ng	97
70) Phenanthrene	11.27	178	614447	27.59	ng	98
71) Anthracene	11.32	178	211332m	9.38	ng	
72) Carbazole	11.49	167	48510	2.29	ng	94
74) Fluoranthene	12.46	202	1165531	54.17	ng	98
77) Pyrene	12.69	202	1261760	56.47	ng	99
80) Benzo(a)anthracene	13.88	228	581647m	32.06	ng	
82) Chrysene	13.91	228	536377m	31.95	ng	
85) Indeno(1,2,3-cd)pyrene	16.64	276	263533	18.75	ng	97
87) Benzo(b)fluoranthene	14.89	252	703909m	44.30	ng	
88) Benzo(k)fluoranthene	14.92	252	106118m	6.92	ng	
89) Benzo(a)pyrene	15.24	252	423059	29.13	ng	98
90) Dibenzo(a,h)anthracene	16.63	278	52362	4.36	ng	# 79
91) Benzo(g,h,i)perylene	17.04	276	264410	21.44	ng	# 86

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

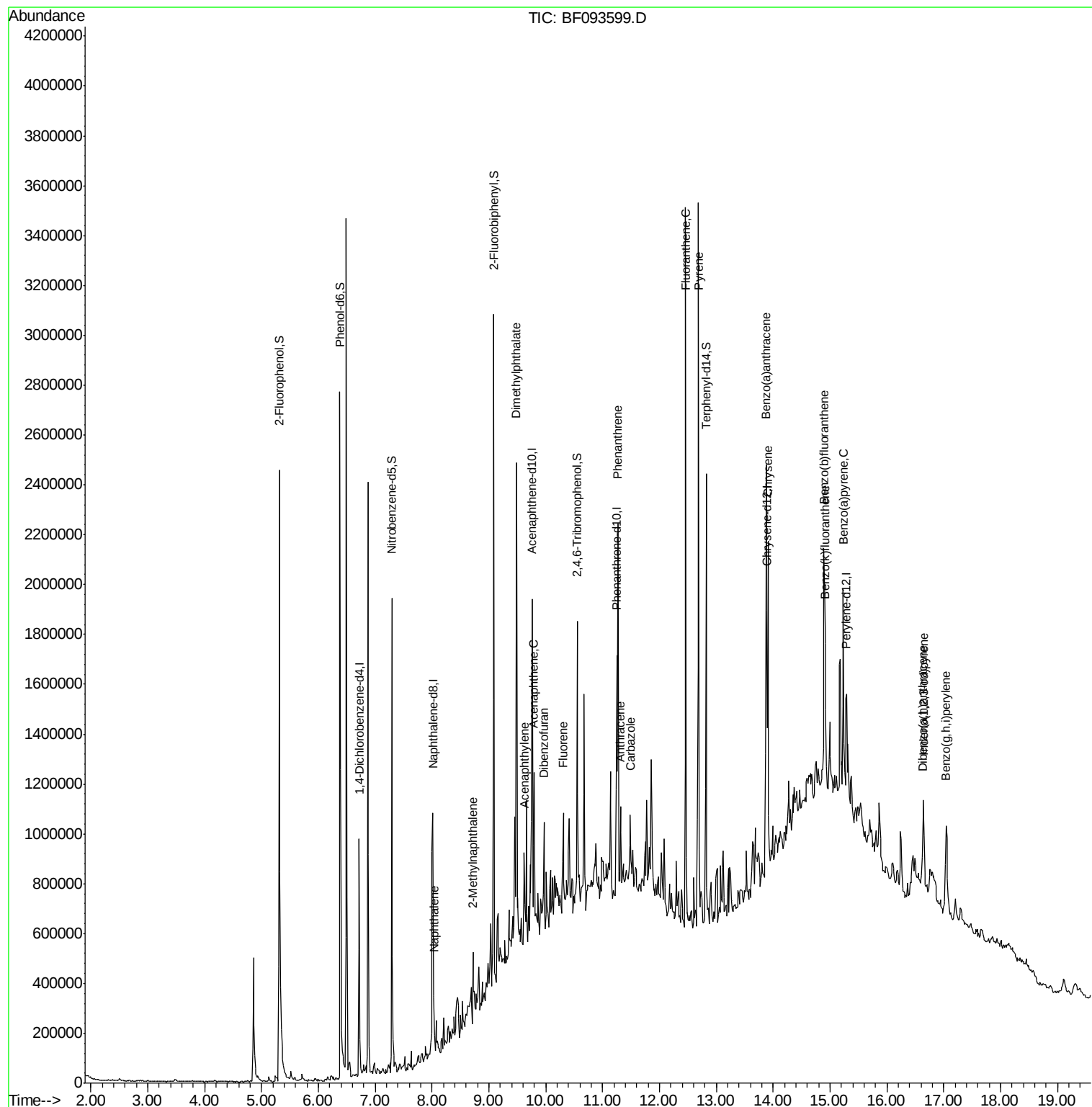
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031117\
Data File : BF093599.D
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ALS Vial : 34 Sample Multiplier: 1

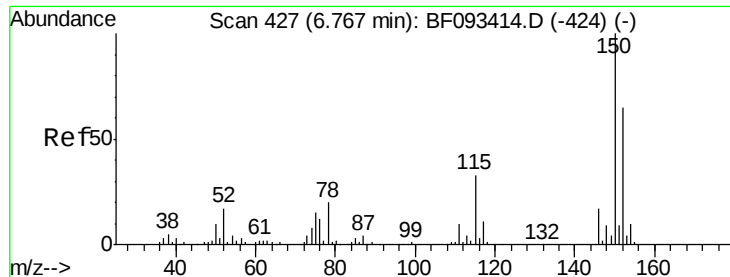
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 13 15:05:08 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.72 min Scan# 423

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

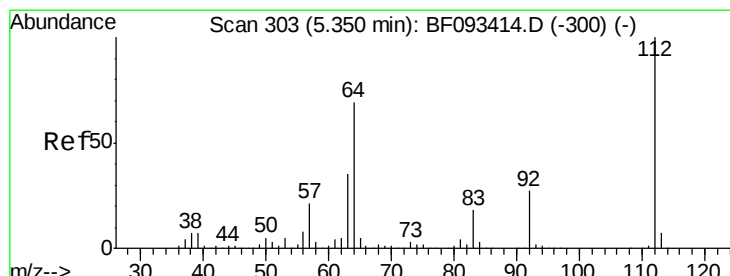
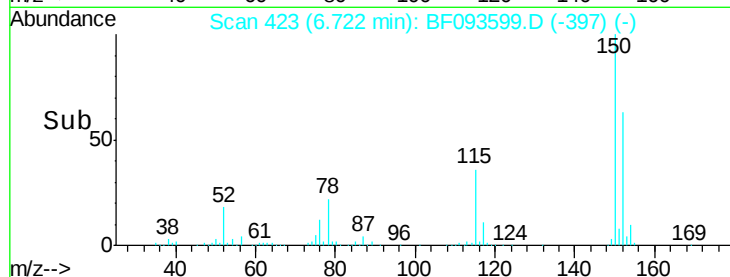
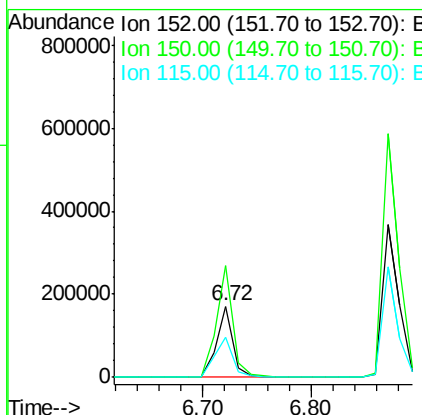
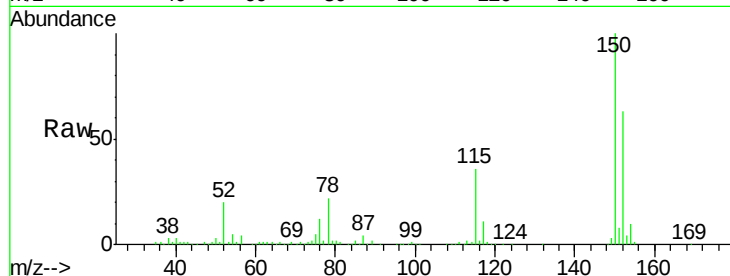
ClientSampleId :

HY-SB422ADL

Tgt Ion:	152	Resp:	181109
Ion Ratio	Lower	Upper	
152	100		
150	157.7	124.9	187.3
115	56.9	46.0	69.0

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#5

2-Fluorophenol

Concen: 85.27 ng

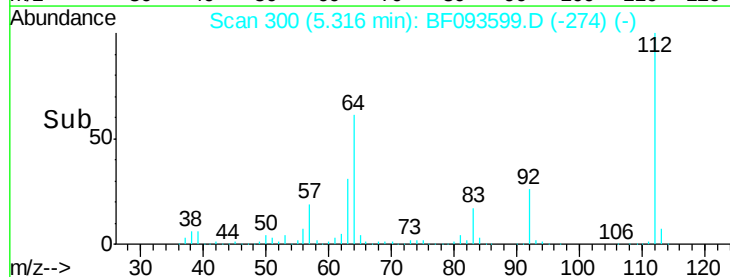
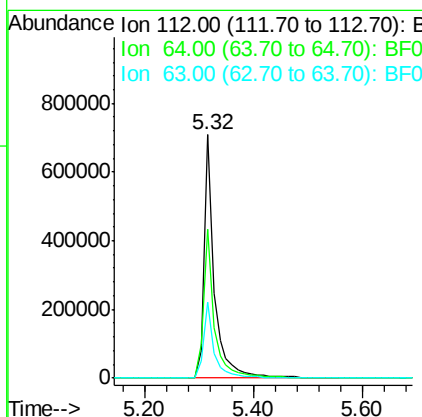
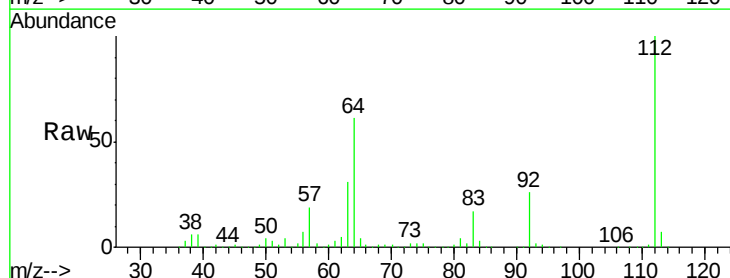
RT: 5.32 min Scan# 300

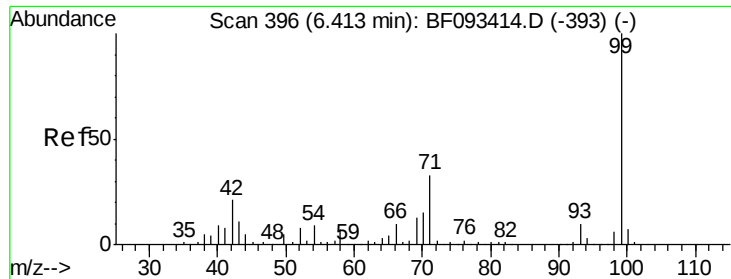
Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion:	112	Resp:	927871
Ion Ratio	Lower	Upper	
112	100		
64	61.2	46.1	69.1
63	31.1	23.8	35.6





#7

Phenol-d6

Concen: 89.57 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

ClientSampleId :

HY-SB422ADL

Tgt Ion: 99 Resp: 1229045

Ion Ratio Lower Upper

99 100

42 22.6 15.6 23.4

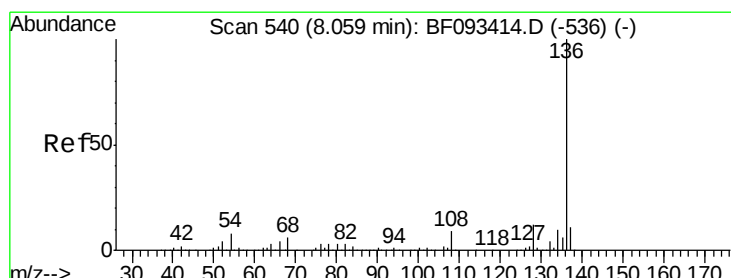
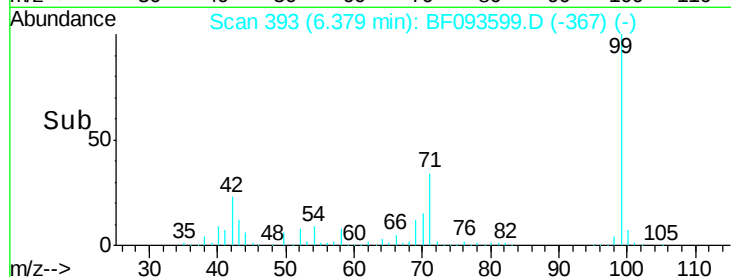
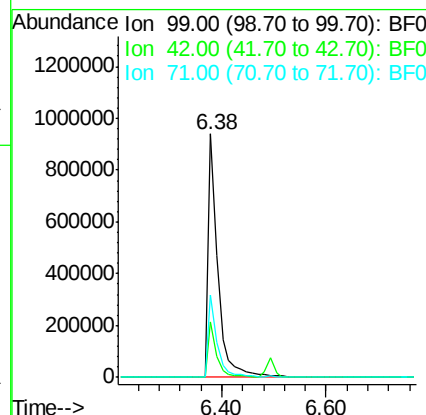
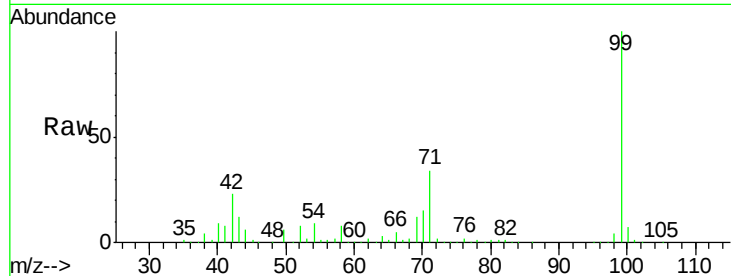
71 33.9 27.5 41.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.01 min Scan# 536

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion: 136 Resp: 620459

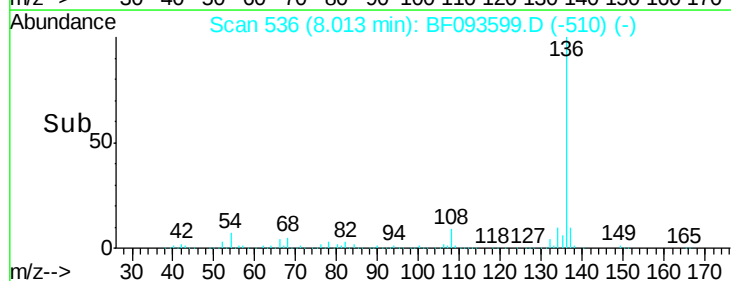
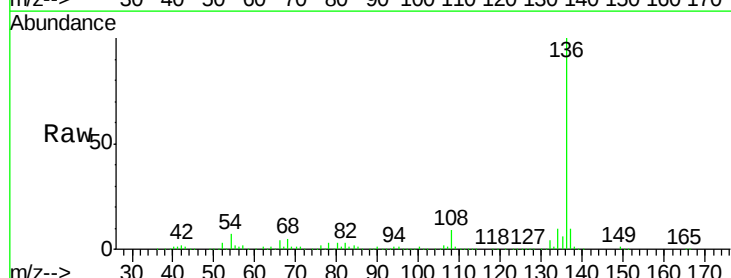
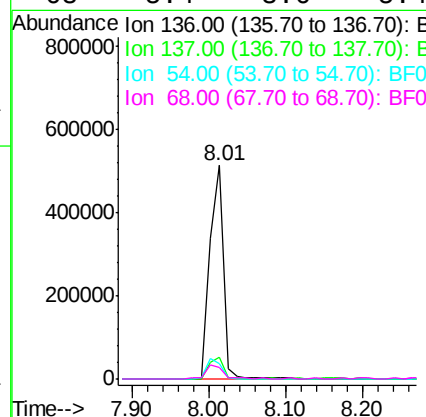
Ion Ratio Lower Upper

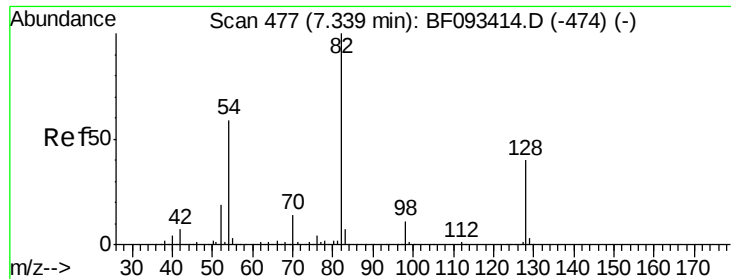
136 100

137 10.5 8.4 12.6

54 7.3 4.5 6.7#

68 5.4 3.6 5.4





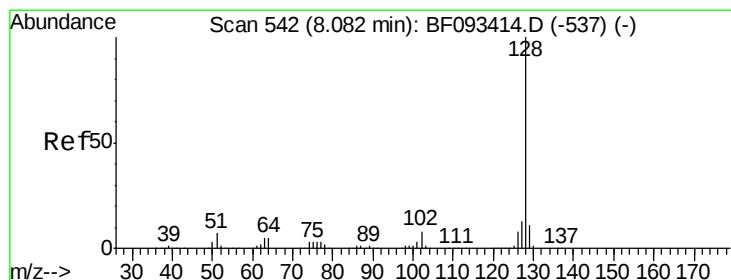
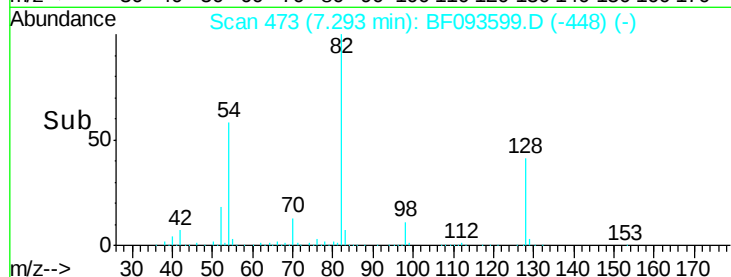
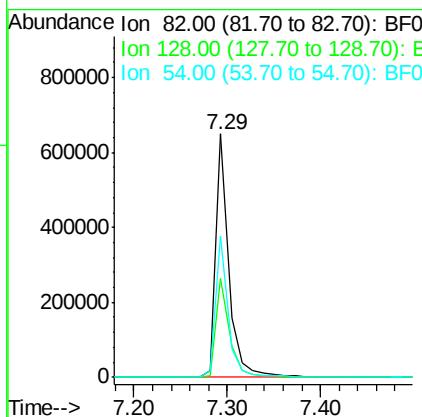
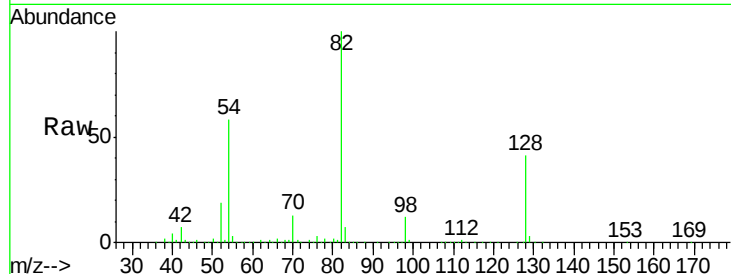
#23
 Nitrobenzene-d5
 Concen: 55.78 ng
 RT: 7.29 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.7	34.6	52.0
54	58.1	39.5	59.3

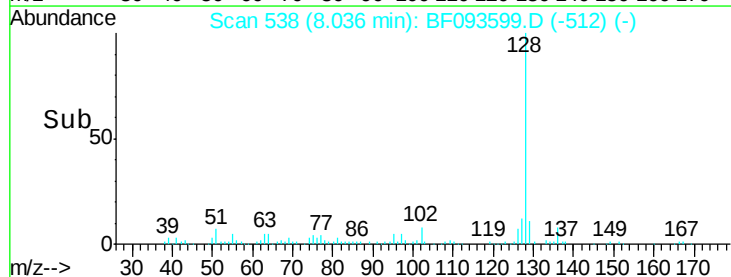
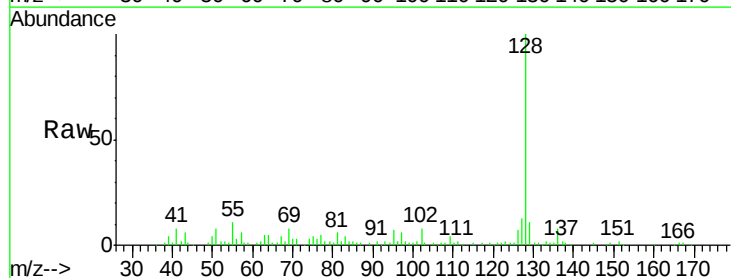
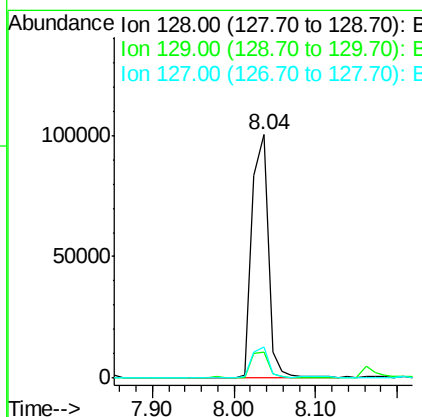
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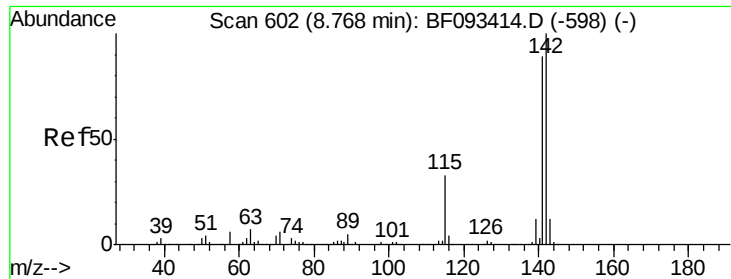
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#31
 Naphthalene
 Concen: 4.50 ng
 RT: 8.04 min Scan# 538
 Delta R.T. -0.00 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.5	14.3
127	12.8	10.8	16.2





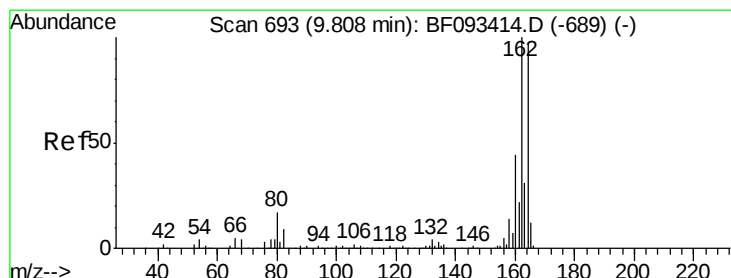
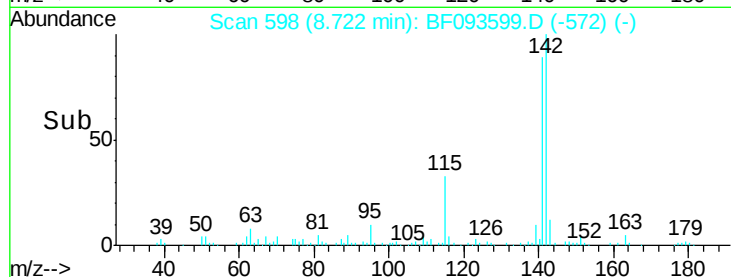
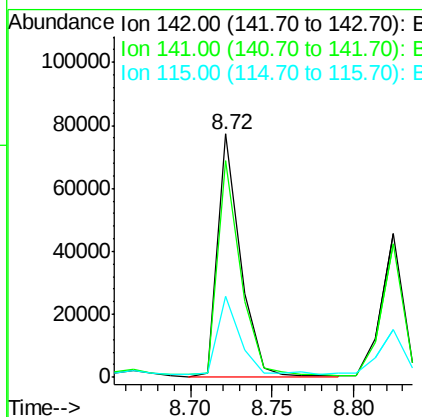
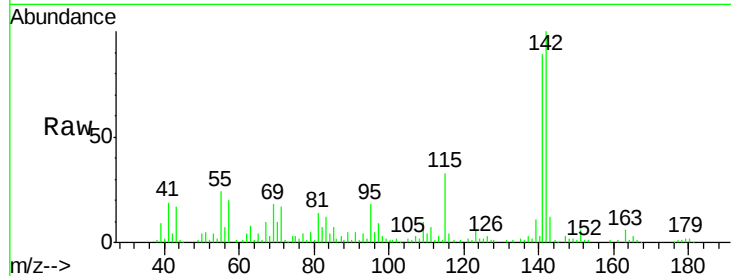
#37
2-Methylnaphthalene
Concen: 3.86 ng
RT: 8.72 min Scan# 598
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.6
115	33.2	28.3	42.5

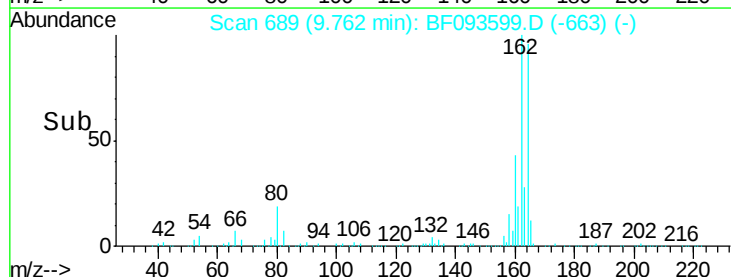
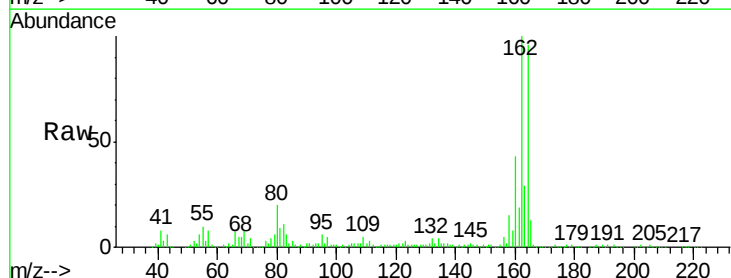
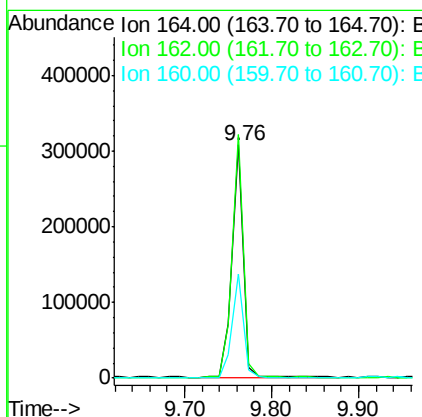
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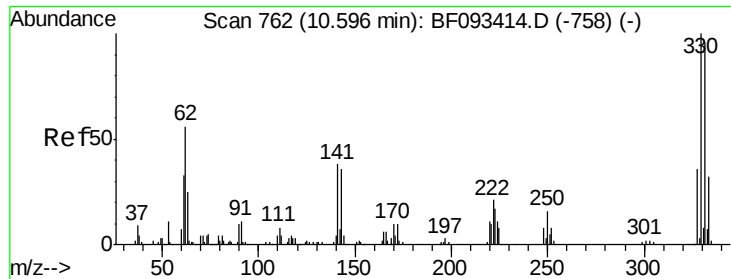
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.76 min Scan# 689
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	80.2	120.2
160	44.7	36.9	55.3





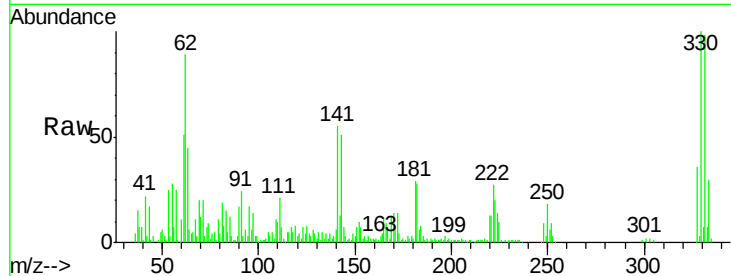
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 2,4,6-Tribromophenol
 Concen: 75.12 ng
 RT: 10.55 min Scan# 758
 Delta R.T. -0.00 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422ADL

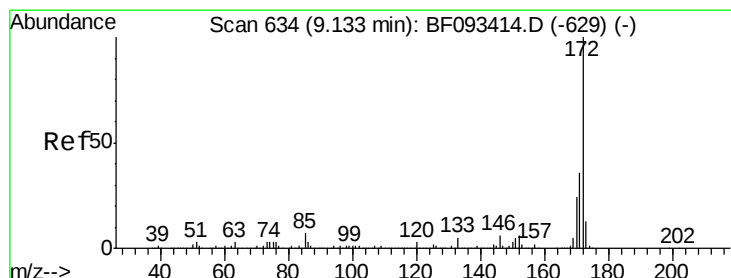
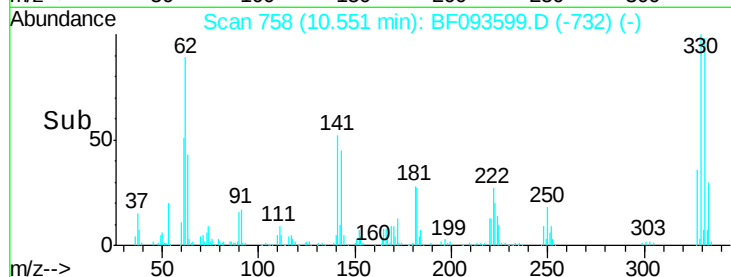
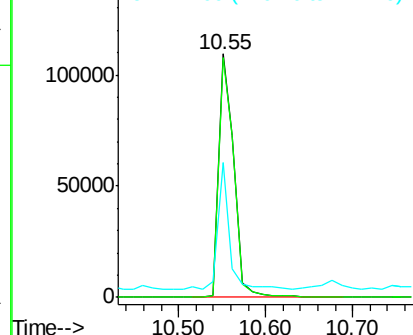
Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	99.6	77.4	116.2
141	40.3	34.1	51.1

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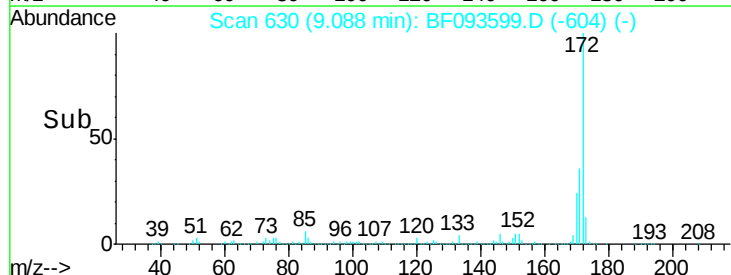
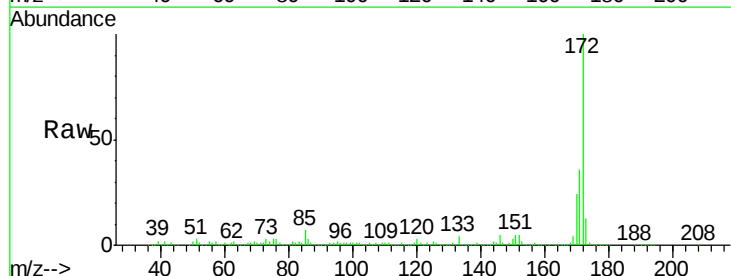
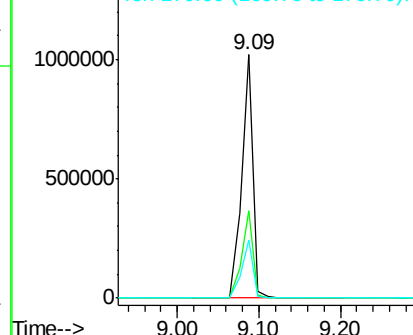
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 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

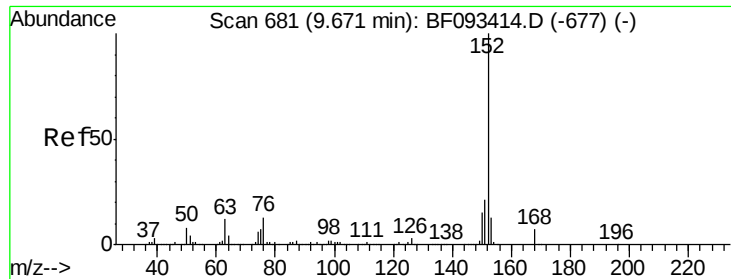


#44
 2-Fluorobiphenyl
 Concen: 66.59 ng
 RT: 9.09 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.9	29.4	44.0
170	24.1	20.2	30.4

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: 3.44 ng

RT: 9.62 min Scan# 677

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

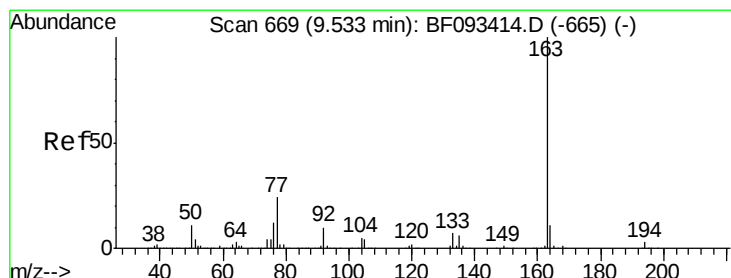
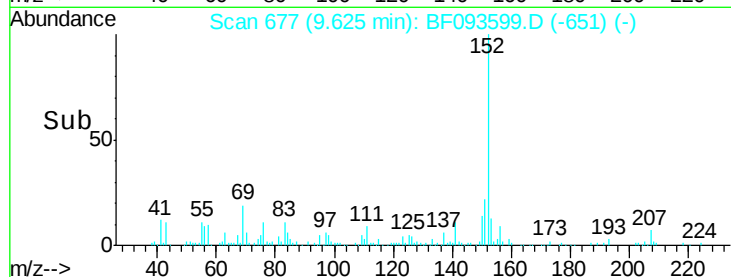
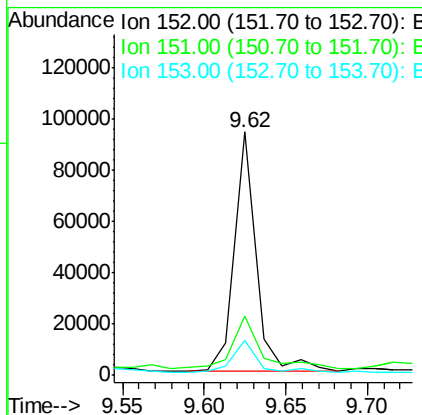
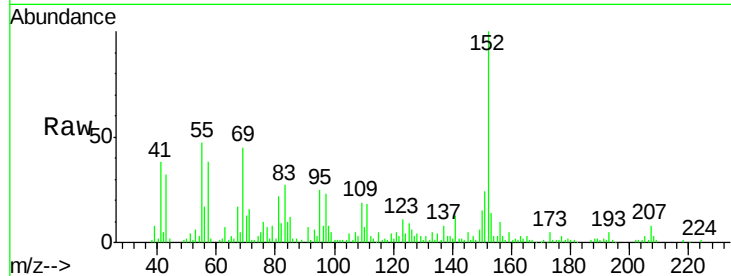
ClientSampleId :

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Tgt Ion:	152	Resp:	86709
Ion Ratio	Lower	Upper	
152	100		
151	24.3	16.9	25.3
153	14.3	11.4	17.2

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#49

Dimethylphthalate

Concen: 35.99 ng

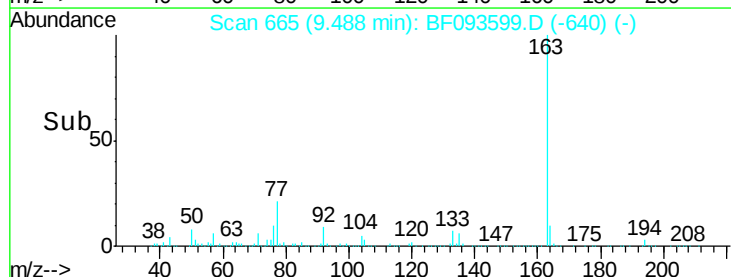
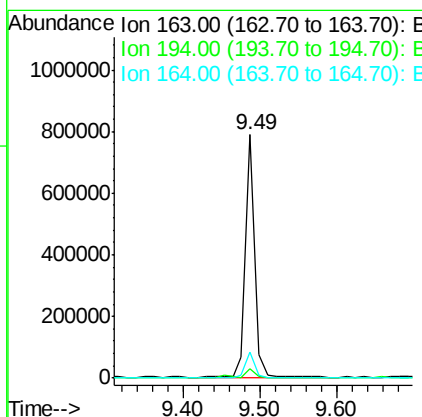
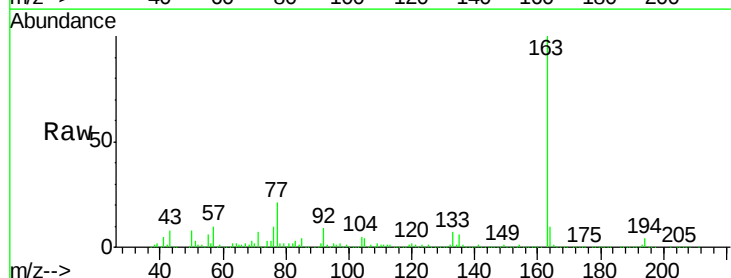
RT: 9.49 min Scan# 665

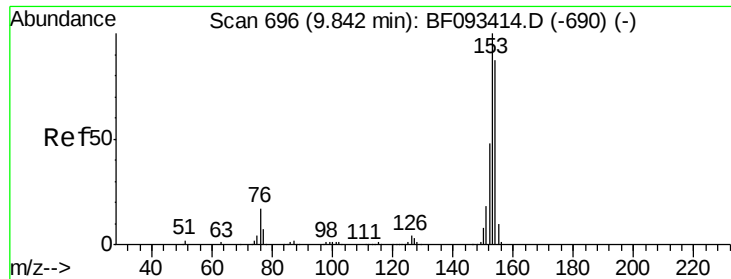
Delta R.T. -0.01 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion:	163	Resp:	653595
Ion Ratio	Lower	Upper	
163	100		
194	3.6	3.0	4.4
164	10.5	8.0	12.0





#51

Acenaphthene

Concen: 8.85 ng

RT: 9.80 min Scan# 692

Delta R.T. -0.00 min

Lab File: BF093599.D

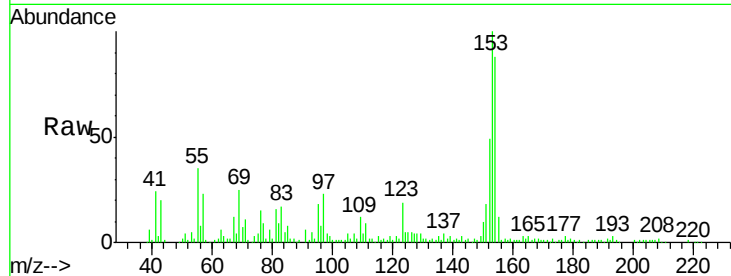
Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

ClientSampleId :

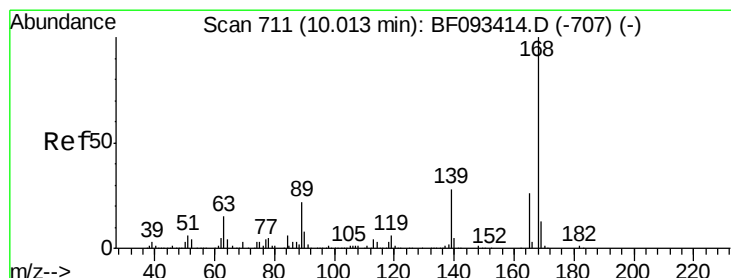
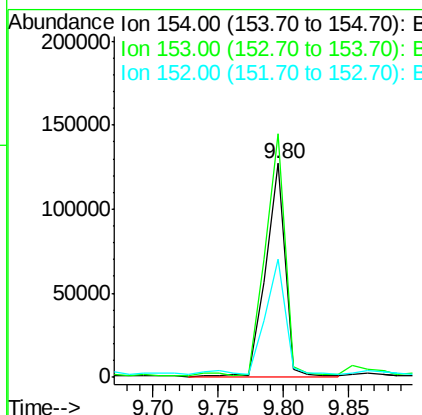
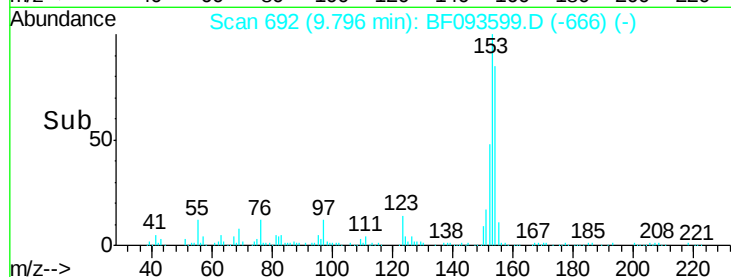
HY-SB422ADL



Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.9	88.6	133.0	
152	55.4	41.6	62.4	

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#54

Dibenzofuran

Concen: 7.31 ng

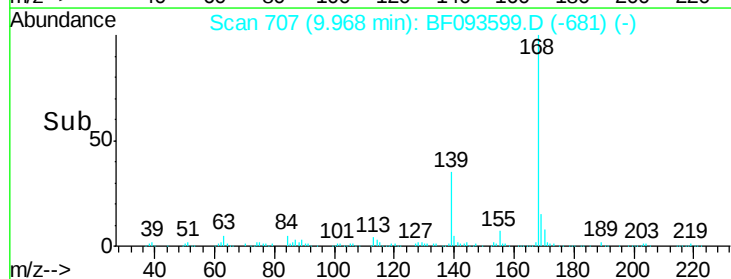
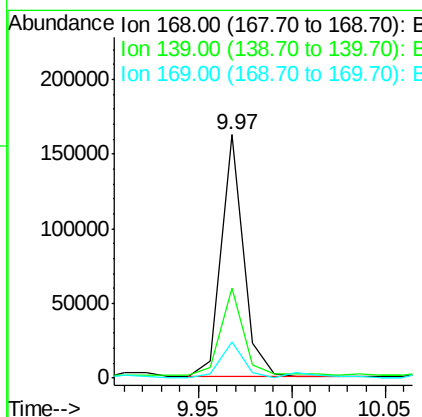
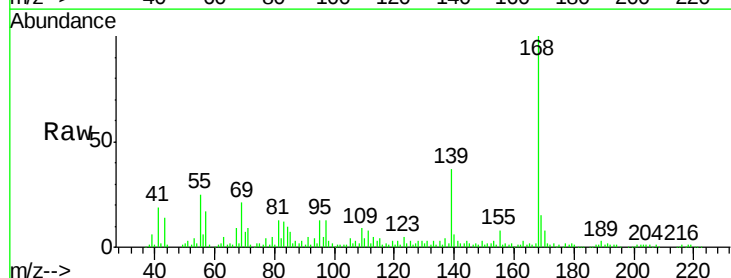
RT: 9.97 min Scan# 707

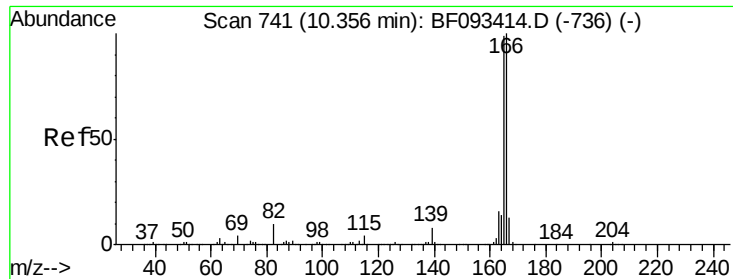
Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	36.9	32.6	49.0	
169	15.0	11.3	16.9	





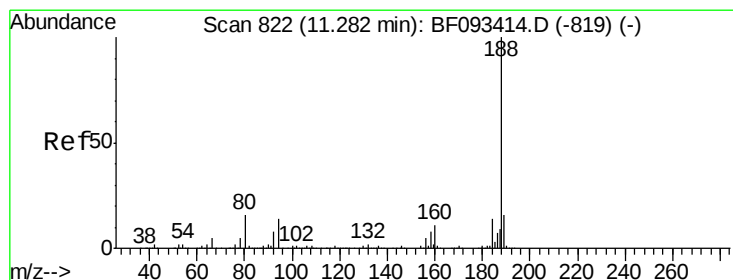
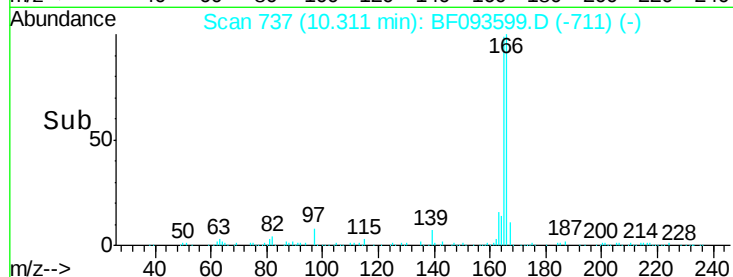
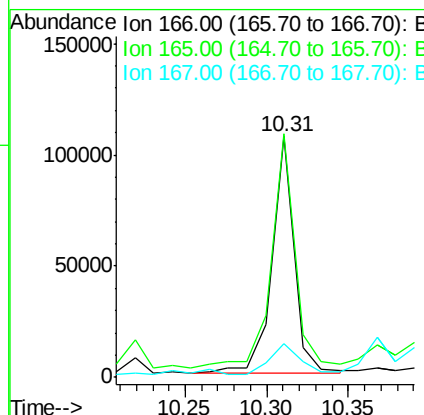
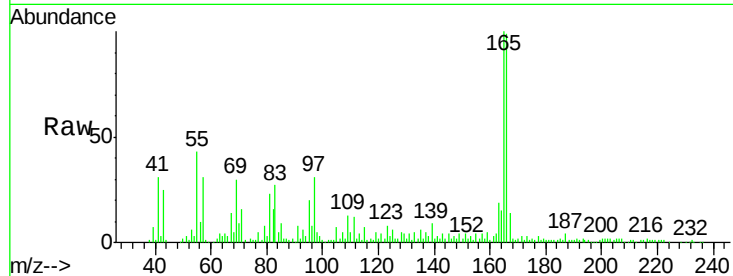
#57
Fluorene
Concen: 6.42 ng
RT: 10.31 min Scan# 737
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampled :
HY-SB422ADL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	101496		
165	101.0	77.8	116.8	
167	14.0	10.8	16.2	

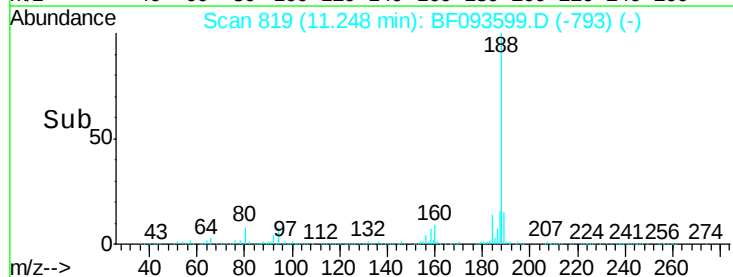
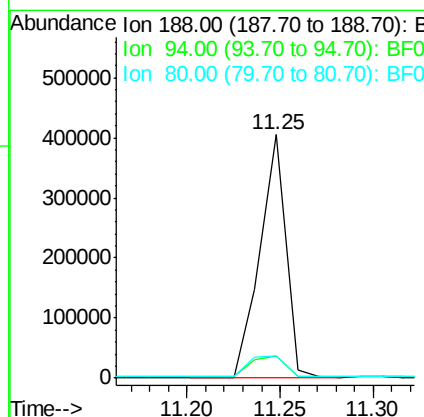
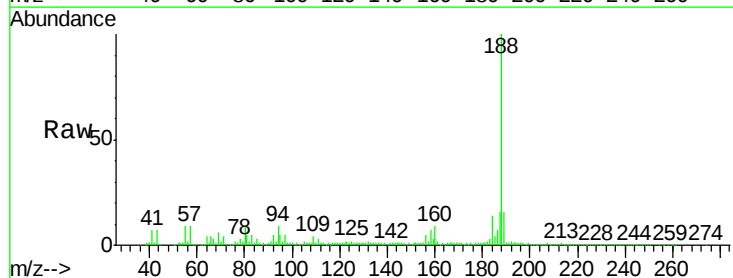
Manual Integrations
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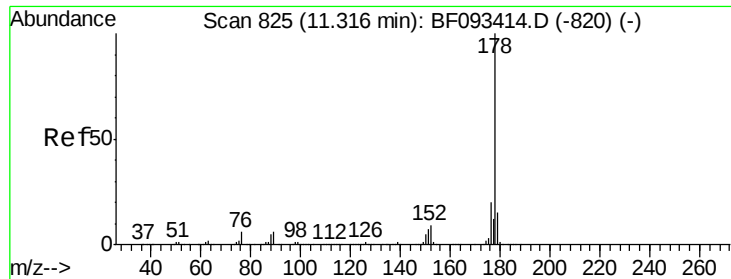
mohammad
3/15/2017 5:35:28 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.25 min Scan# 819
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	390224		
94	8.9	10.0	15.0#	
80	9.2	11.2	16.8#	





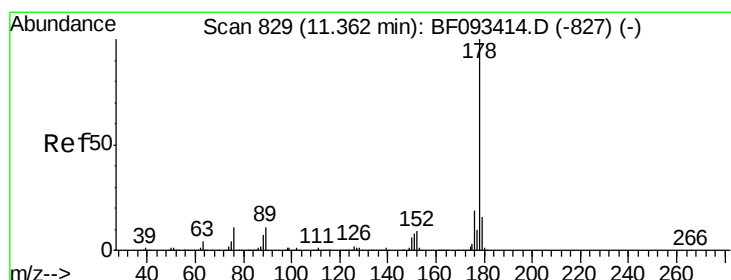
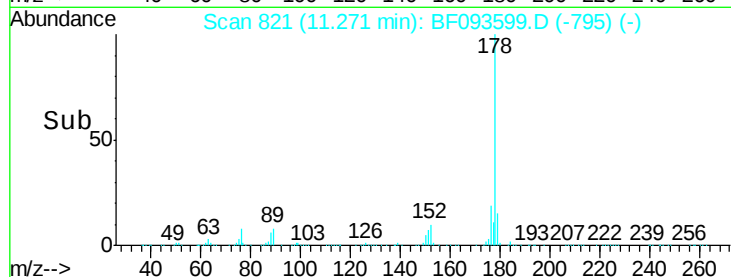
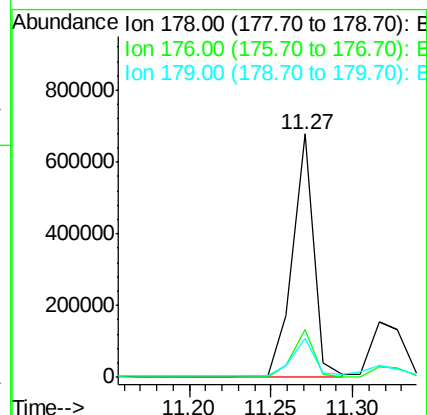
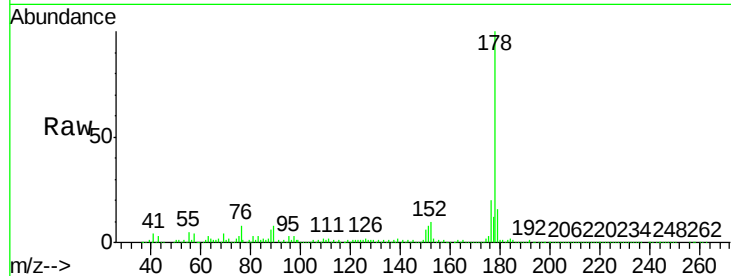
#70
Phenanthrene
Concen: 27.59 ng
RT: 11.27 min Scan# 821
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.6	25.0
179	16.1	12.8	19.2

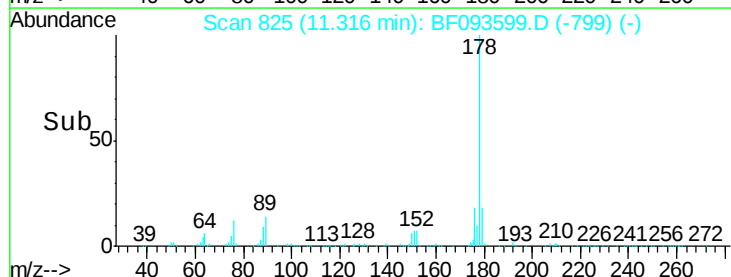
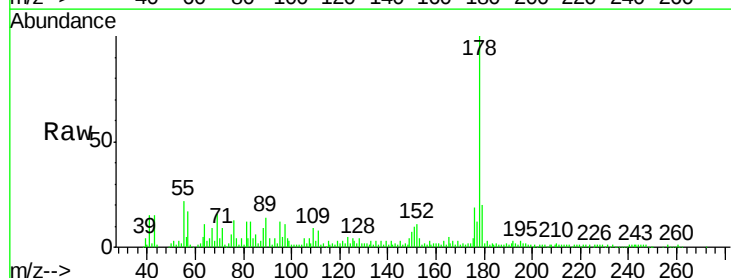
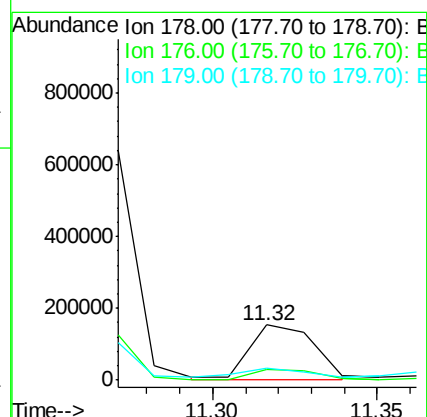
Manual Integrations
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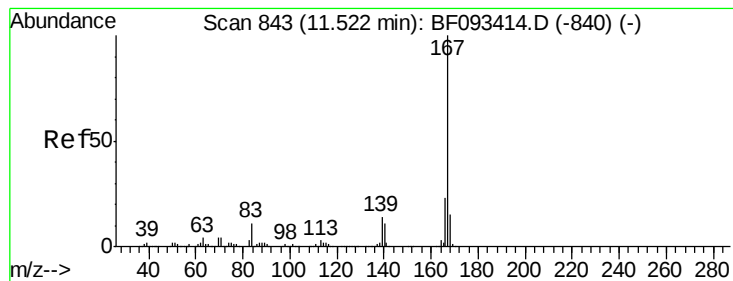
mohammad
3/15/2017 5:35:28 PM



#71
Anthracene
Concen: 9.38 ng m
RT: 11.32 min Scan# 825
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	20.5	13.2	19.8#





#72

Carbazole

Concen: 2.29 ng

RT: 11.49 min Scan# 840

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

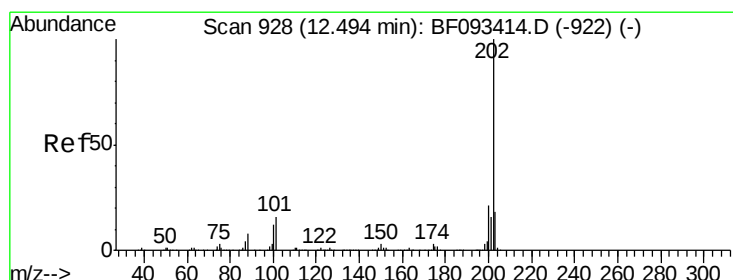
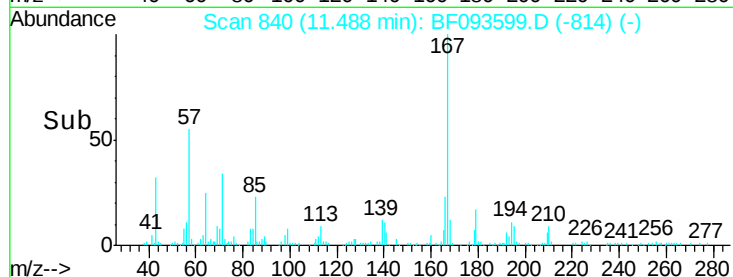
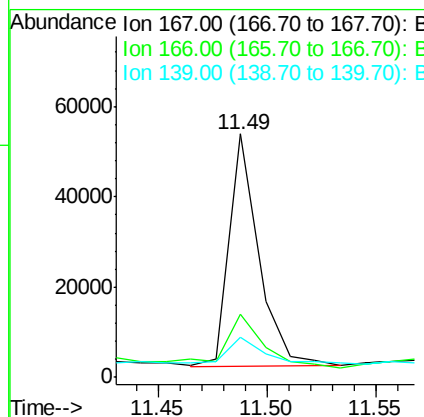
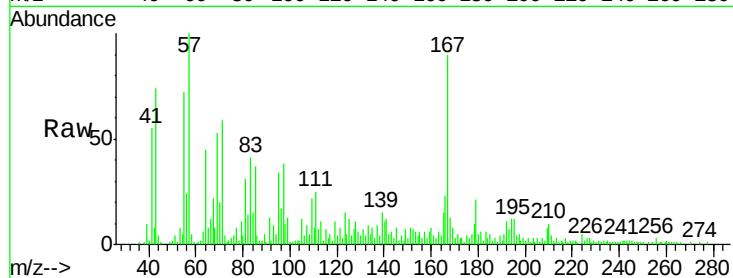
ClientSampleId :

HY-SB422ADL

Tgt Ion:	167	Resp:	48510
Ion Ratio	Lower	Upper	
167	100		
166	25.8	18.2	27.2
139	16.6	11.4	17.2

Manual Integrations
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#74

Fluoranthene

Concen: 54.17 ng

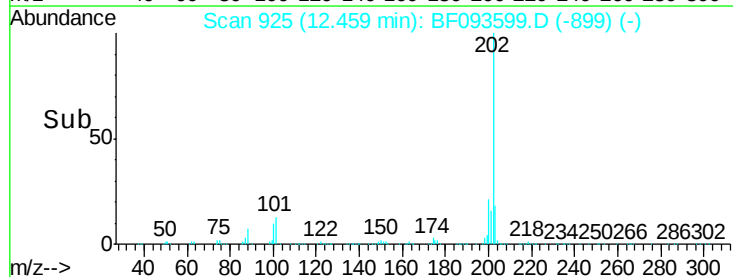
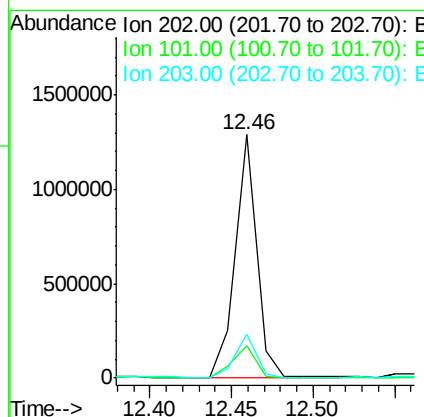
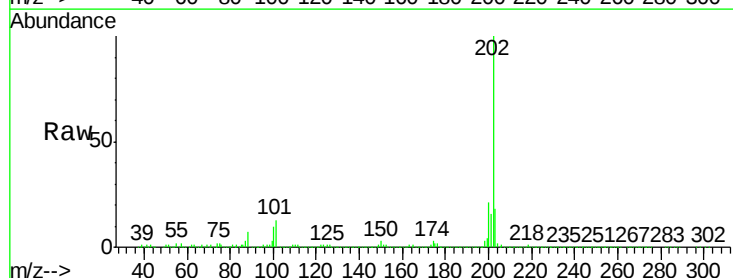
RT: 12.46 min Scan# 925

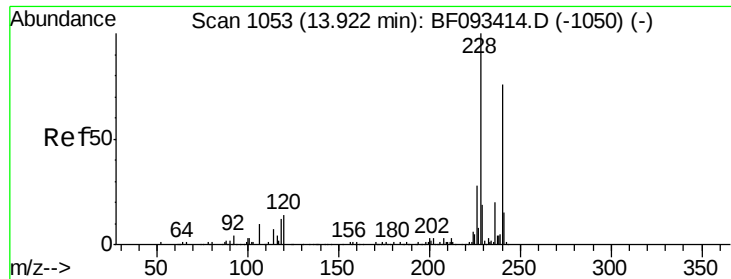
Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion:	202	Resp:	1165531
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	34.6
203	17.9	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Instrument :

BNA_F

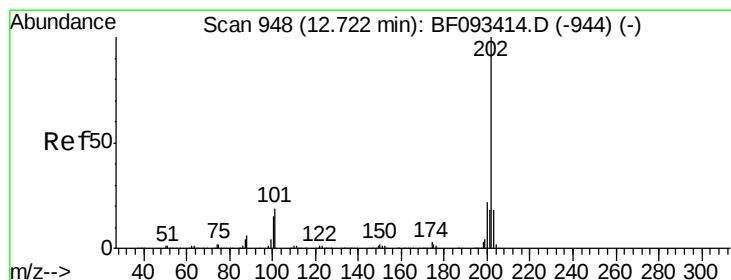
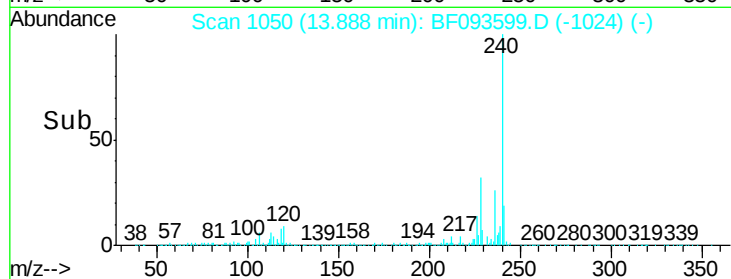
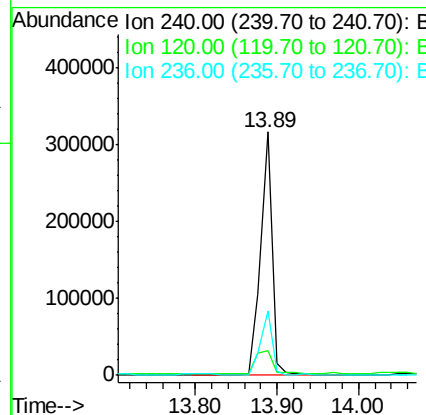
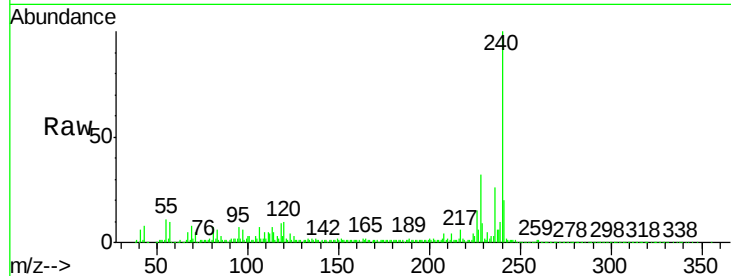
ClientSampleId :

HY-SB422ADL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	307248		
120	10.0	12.9	19.3#	
236	26.2	20.9	31.3	

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#77

Pyrene

Concen: 56.47 ng

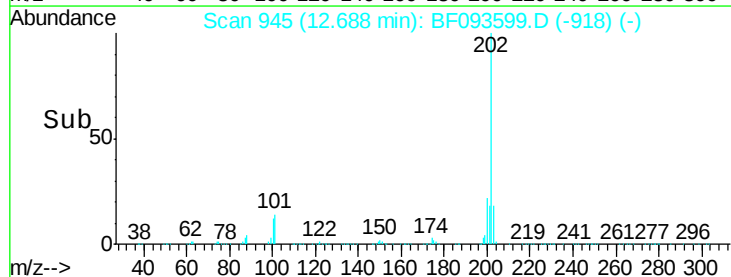
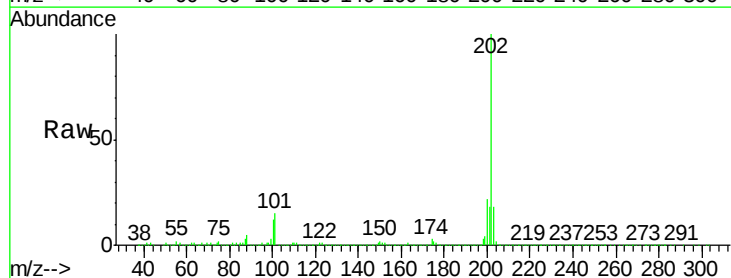
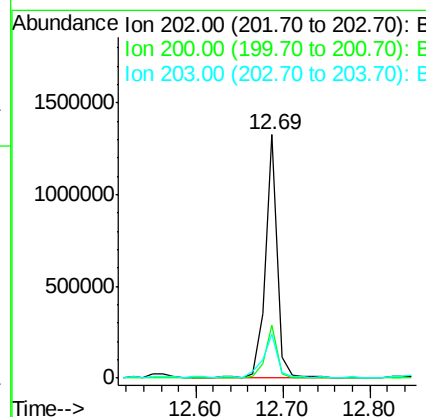
RT: 12.69 min Scan# 945

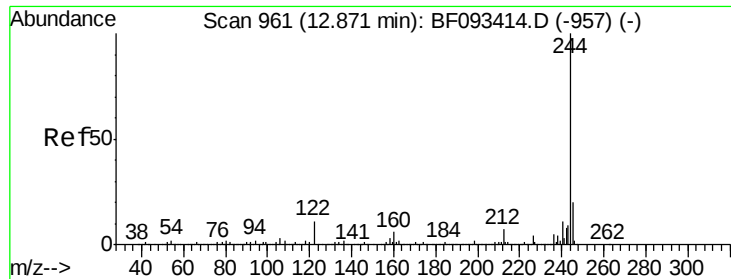
Delta R.T. 0.01 min

Lab File: BF093599.D

Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1261760		
200	22.0	17.7	26.5	
203	17.9	14.7	22.1	





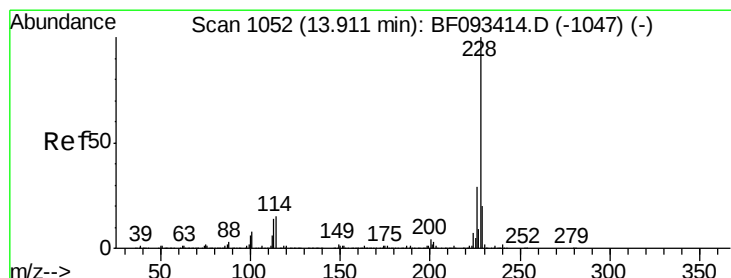
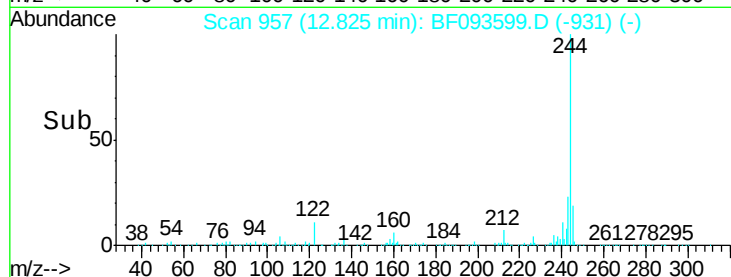
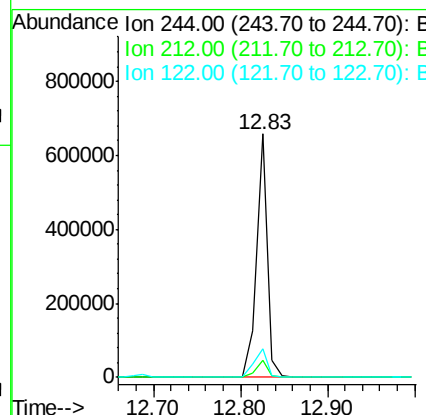
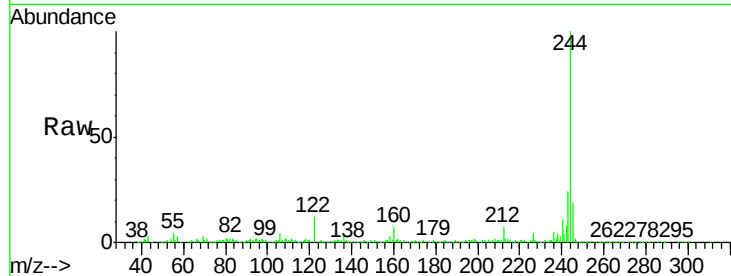
#78
 Terphenyl-d14
 Concen: 48.64 ng
 RT: 12.83 min Scan# 957
 Delta R.T. -0.00 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB422ADL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.2	9.2
122	11.7	11.4	17.2

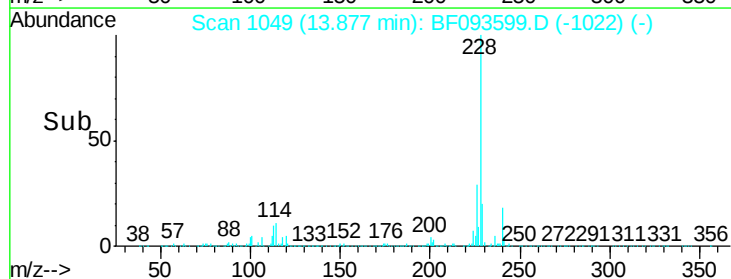
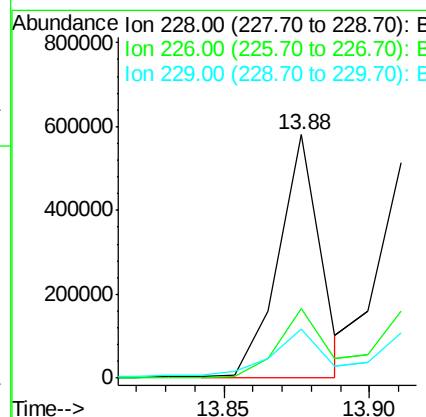
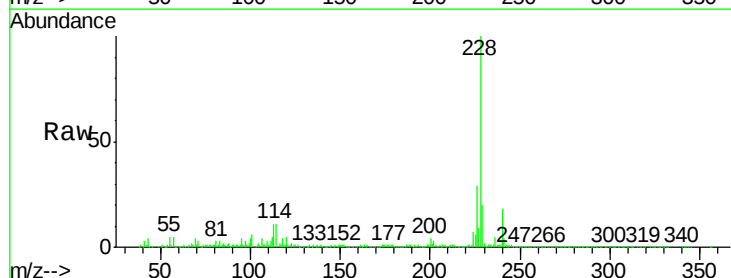
Manual Integrations
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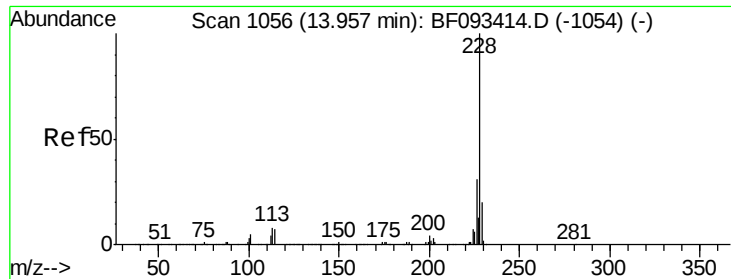
mohammad
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#80
 Benzo(a)anthracene
 Concen: 32.06 ng m
 RT: 13.88 min Scan# 1049
 Delta R.T. 0.01 min
 Lab File: BF093599.D
 Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.4	33.6
229	20.0	16.2	24.4





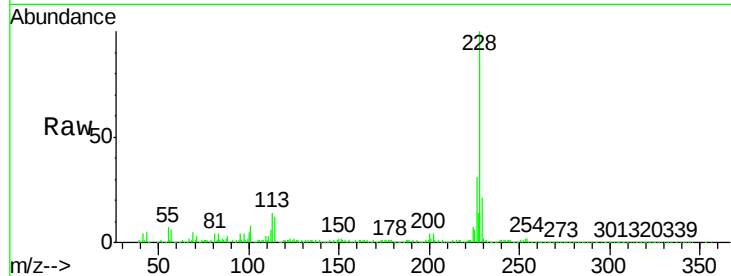
#82
Chrysene
Concen: 31.95 ng m
RT: 13.91 min Scan# 1052
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

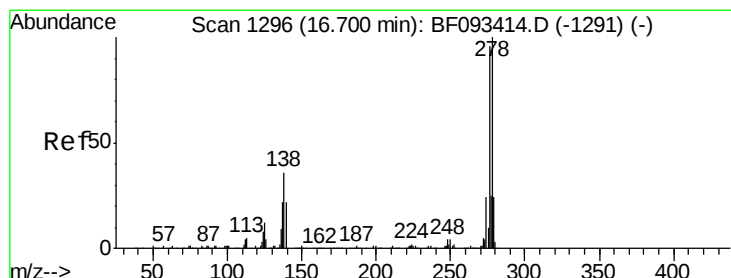
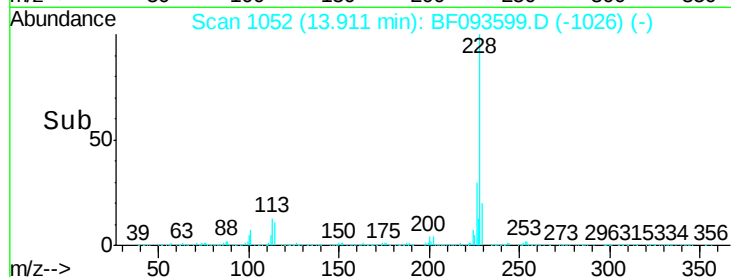
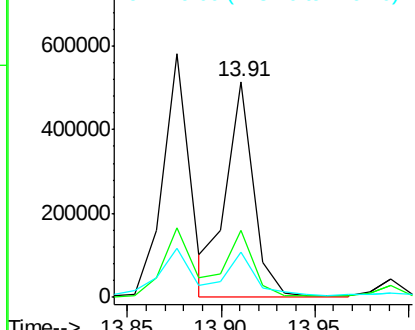
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.0
229	21.0	16.2	24.2

Manual Integrations
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3/15/2017 5:35:28 PM



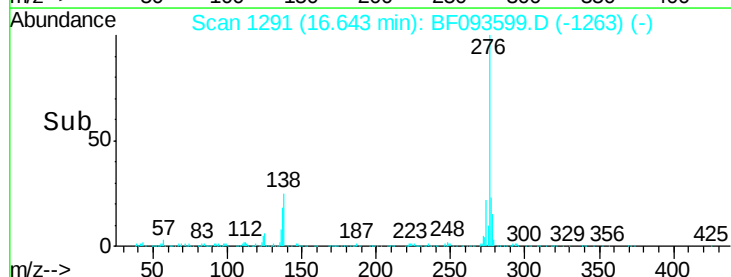
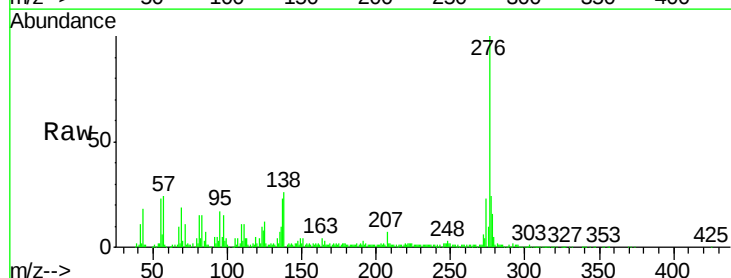
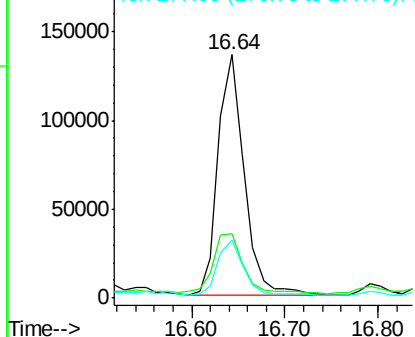
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

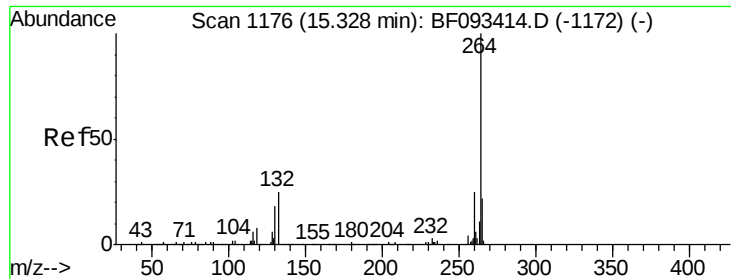


#85
Indeno(1,2,3-cd)pyrene
Concen: 18.75 ng
RT: 16.64 min Scan# 1291
Delta R.T. 0.02 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.7	21.8	32.6
277	23.3	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





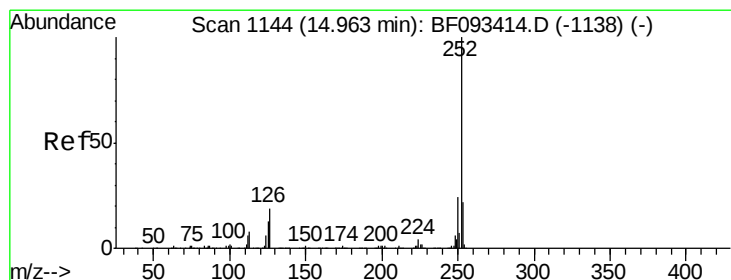
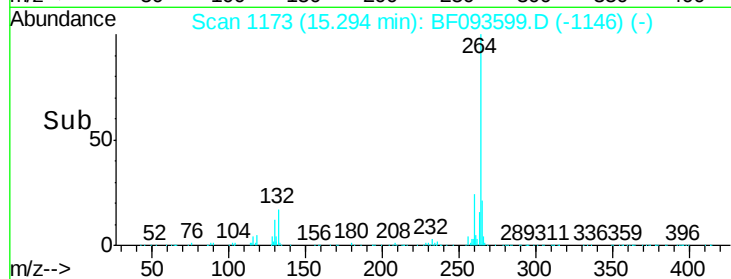
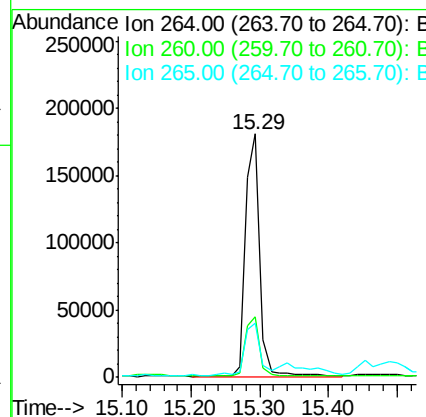
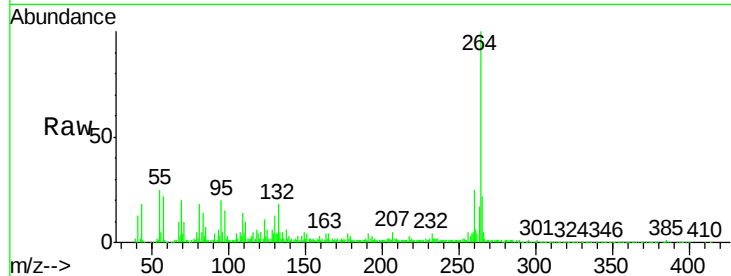
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.29 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	25.1	19.2	28.8
265	22.1	17.4	26.0

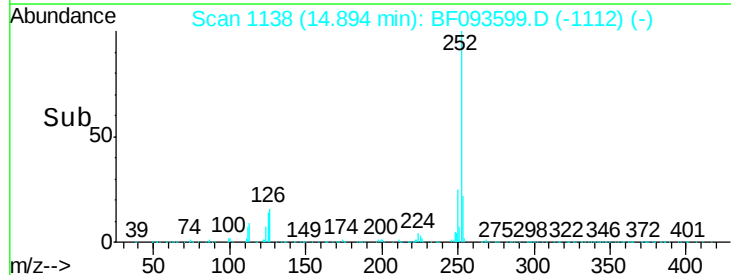
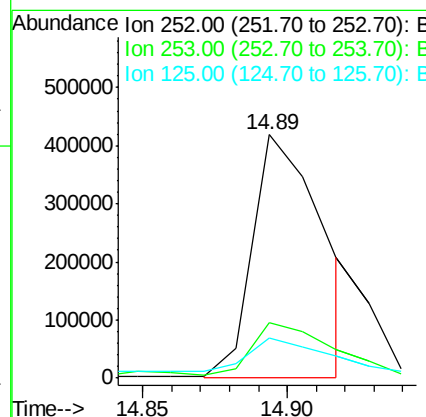
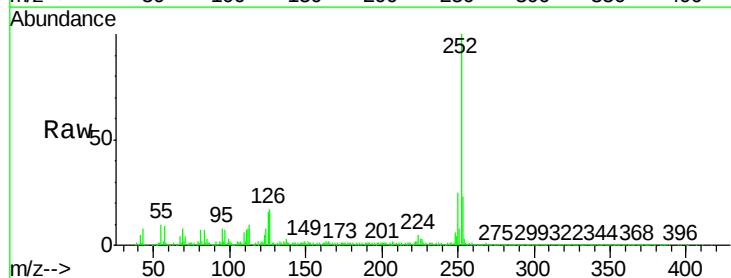
Manual Integrations
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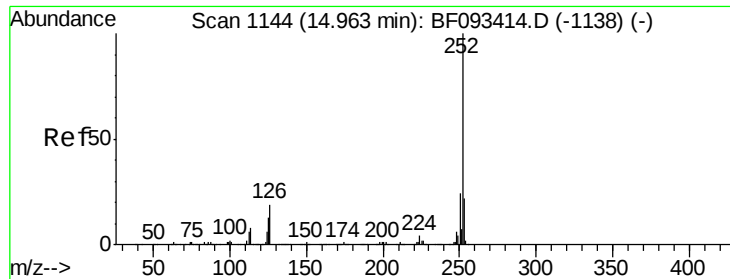
mohammad
3/15/2017 5:35:28 PM



#87
Benzo(b)fluoranthene
Concen: 44.30 ng m
RT: 14.89 min Scan# 1138
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.8	18.2	27.4
125	16.3	9.8	14.6#





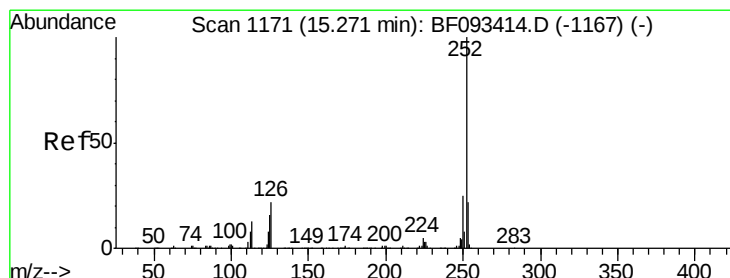
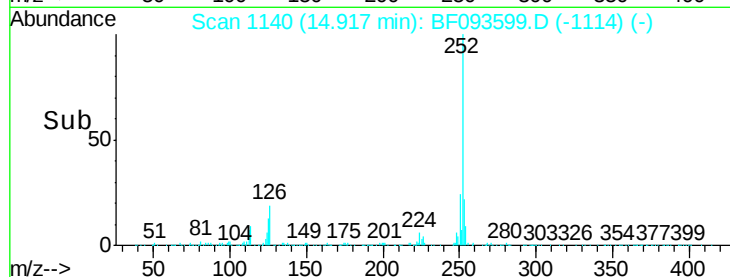
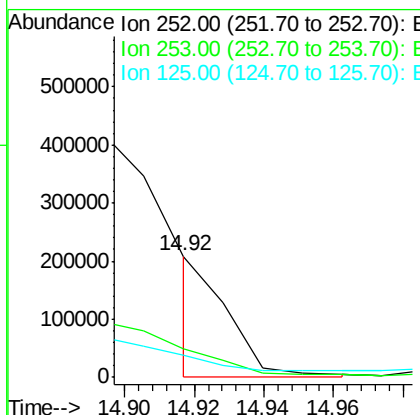
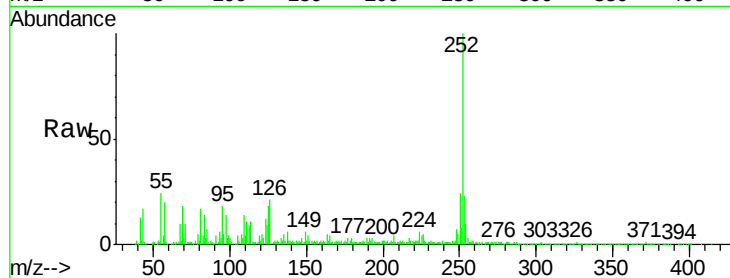
#88
Benzo(k)fluoranthene
Concen: 6.92 ng m
RT: 14.92 min Scan# 1140
Delta R.T. -0.00 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.5	27.7
125	18.4	8.9	13.3

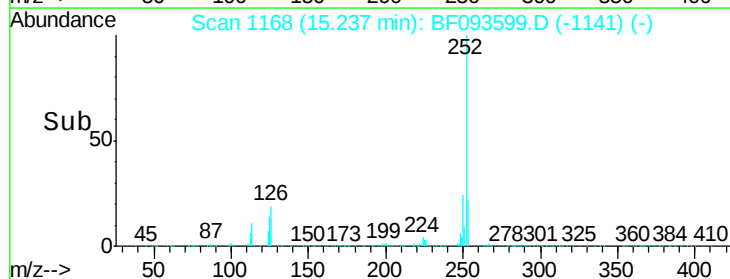
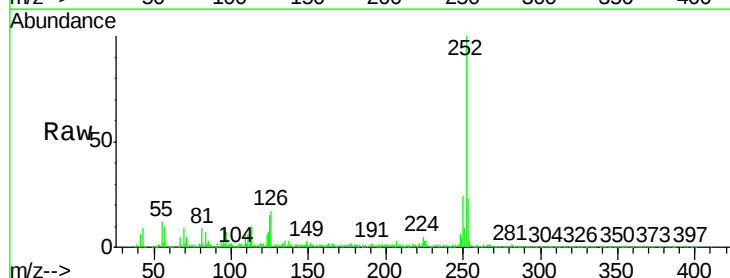
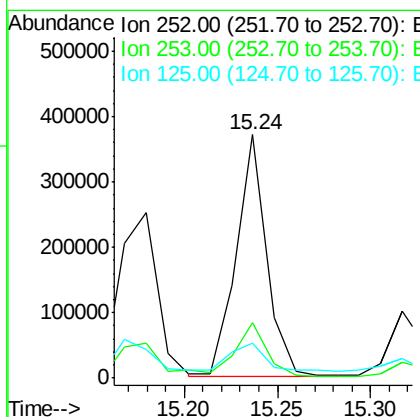
Manual Integrations
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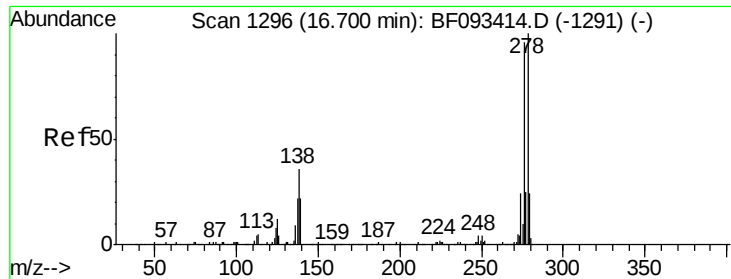
mohammad
3/15/2017 5:35:28 PM



#89
Benzo(a)pyrene
Concen: 29.13 ng
RT: 15.24 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	14.6	10.0	15.0





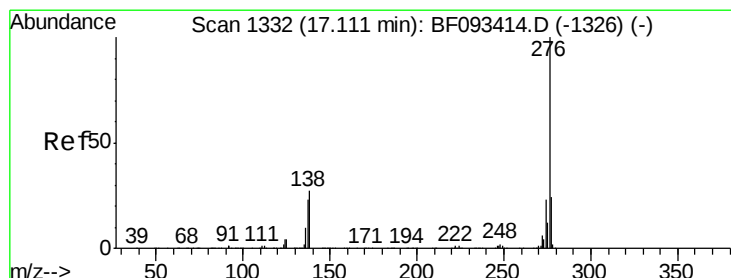
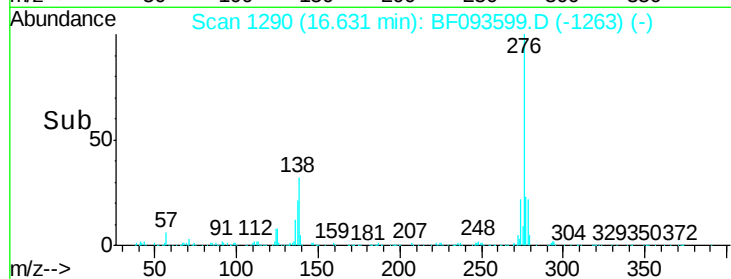
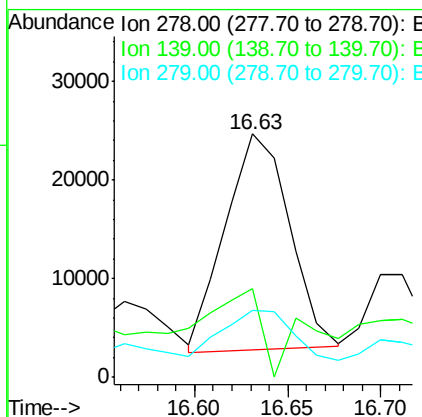
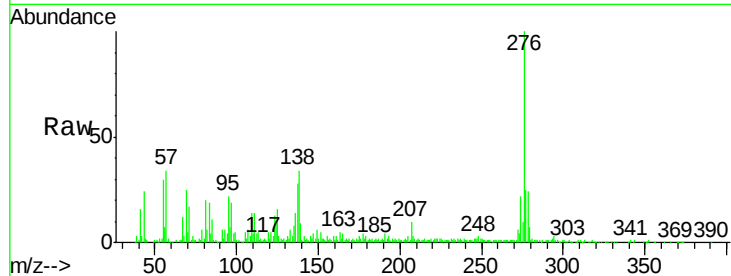
#90
Dibenzo(a,h)anthracene
Concen: 4.36 ng
RT: 16.63 min Scan# 1290
Delta R.T. 0.01 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Instrument :
BNA_F
ClientSampleId :
HY-SB422ADL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	36.4	14.8	22.2#
279	27.7	19.8	29.6

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 21.44 ng
RT: 17.04 min Scan# 1326
Delta R.T. 0.02 min
Lab File: BF093599.D
Acq: 12 Mar 2017 9:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	34.1	16.0	24.0#

