

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051017\
 Data File : BF095073.D
 Acq On : 11 May 2017 00:22
 Operator : SJ/MA
 Sample : I3037-08 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB409A

Manual Integrations
 APPROVED

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 5/11/2017 2:25:38 PM

Quant Time: May 11 08:16:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	82743	20.00	ng	-0.02
21) Naphthalene-d8	9.72	136	334902	20.00	ng	-0.03
38) Acenaphthene-d10	12.55	164	155866	20.00	ng	-0.03
63) Phenanthrene-d10	14.95	188	286993	20.00	ng	-0.03
75) Chrysene-d12	18.63	240	211947	20.00	ng	-0.02
86) Perylene-d12	20.29	264	190192	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	7.51	99	1030	0.17	ng	0.23
23) Nitrobenzene-d5	8.70	82	1213	0.23	ng	0.06
41) 2,4,6-Tribromophenol	13.89	330	807	0.63	ng	0.01
44) 2-Fluorobiphenyl	11.50	172	7807	0.72	ng	-0.03
78) Terphenyl-d14	17.28	244	8520	0.89	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	9.76	128	553778	32.90	ng	99
37) 2-Methylnaphthalene	10.88	142	415473	37.61	ng	96
45) 1,1'-Biphenyl	11.65	154	79150	6.03	ng	94
48) Acenaphthylene	12.32	152	139702	8.42	ng	98
51) Acenaphthene	12.61	154	26593	2.68	ng	97
57) Fluorene	13.45	166	110632	9.27	ng	100
70) Phenanthrene	14.99	178	602081	36.51	ng	98
71) Anthracene	15.08	178	128220	7.61	ng	97
74) Fluoranthene	16.74	202	155319	9.18	ng	98
77) Pyrene	17.04	202	421213	26.57	ng	99
80) Benzo(a)anthracene	18.62	228	73130m	5.93	ng	
82) Chrysene	18.67	228	75018	6.29	ng	97
85) Indeno(1,2,3-cd)pyrene	21.61	276	27293	2.82	ng	90
87) Benzo(b)fluoranthene	19.90	252	43190m	3.68	ng	
89) Benzo(a)pyrene	20.24	252	74221	6.84	ng	97
91) Benzo(g,h,i)perylene	21.98	276	37925	4.32	ng	96

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

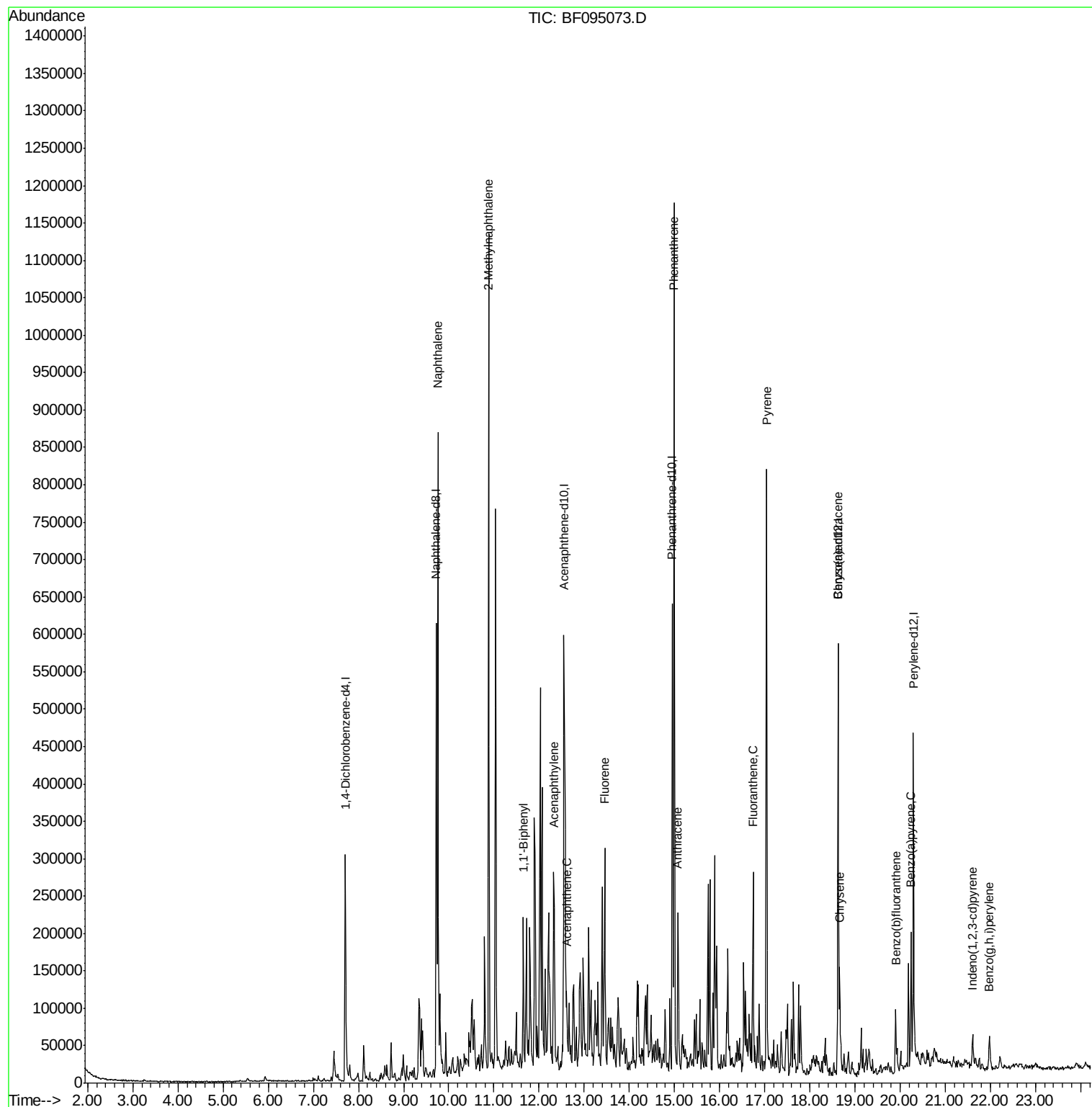
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051017\
Data File : BF095073.D
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ALS Vial : 19 Sample Multiplier: 1

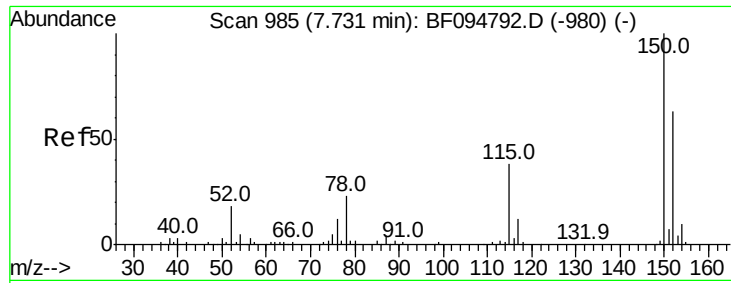
Instrument :
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#1

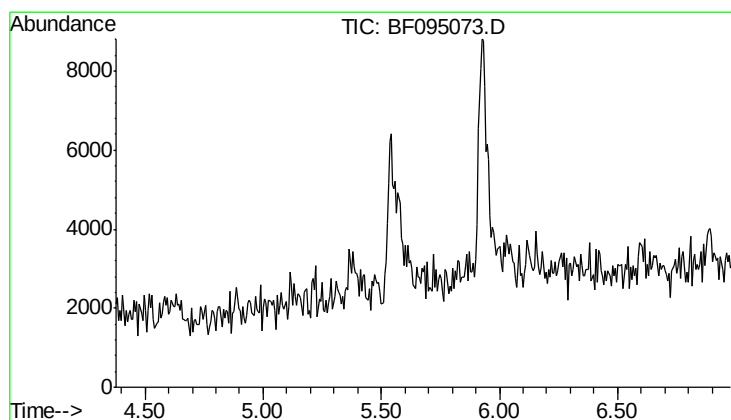
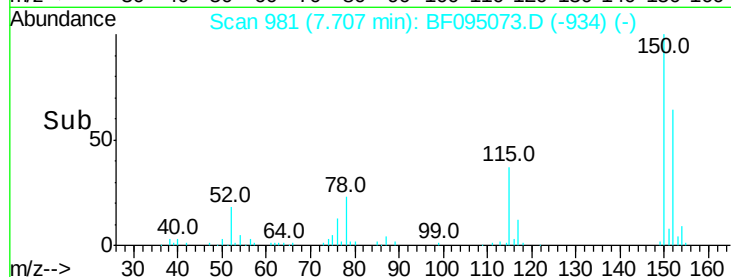
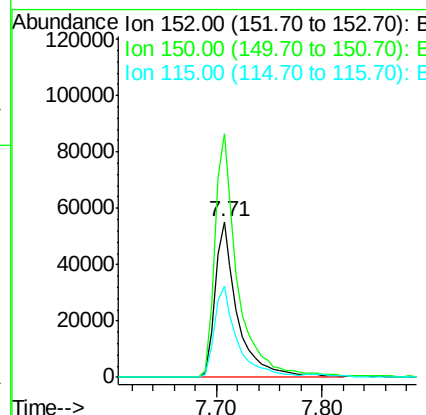
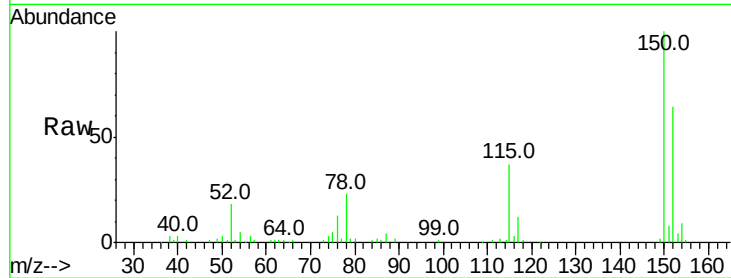
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.71 min Scan# 981
Delta R.T. -0.02 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Instrument :
BNA_F
ClientSampleId :
HY-SB409A

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	126.2	189.2
115	58.5	52.2	78.2

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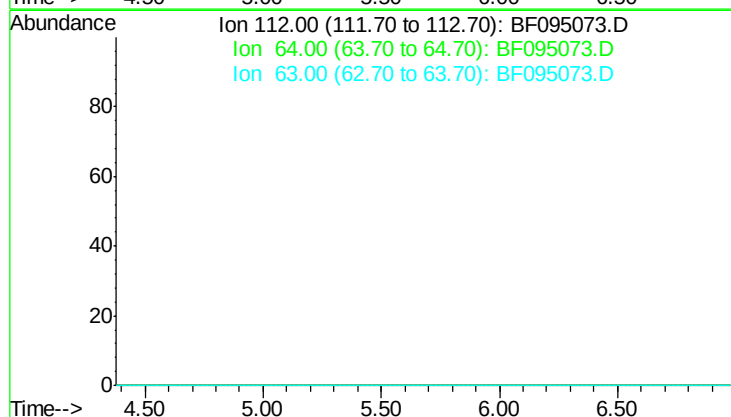


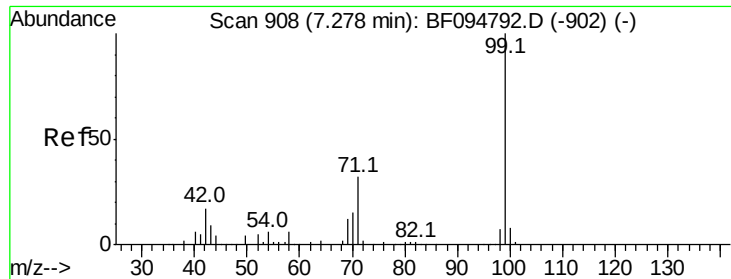
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.68 min

Lab File: BF095073.D
Acq: 11 May 2017 00:22

Tgt Ion	Sig	Exp Ratio
112	100	
64	57.5	
63	29.2	





#7

Phenol-d6

Concen: 0.17 ng

RT: 7.51 min Scan# 947

Delta R.T. 0.23 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

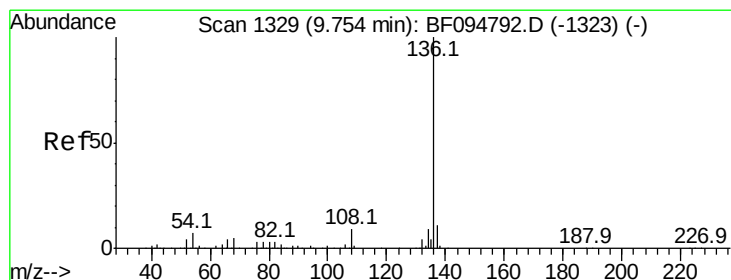
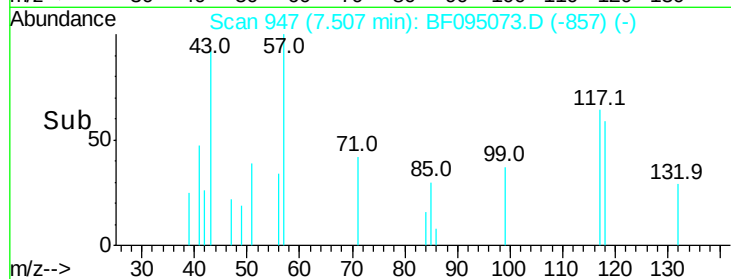
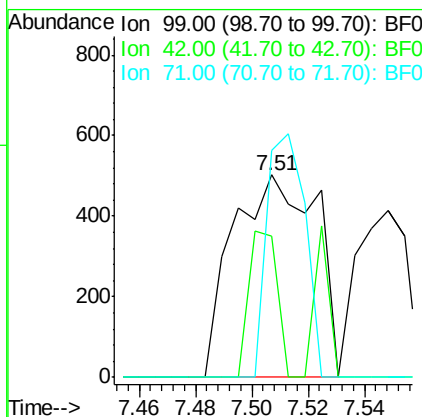
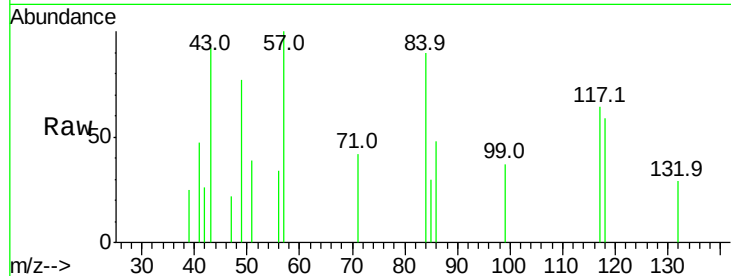
ClientSampleId :

HY-SB409A

Tot Ion:	99	Resp:	1030
Ion Ratio	Lower	Upper	
99	100		
42	70.1	13.5	20.3#
71	112.4	24.5	36.7#

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#21

Naphthalene-d8

Concen: 20.00 ng

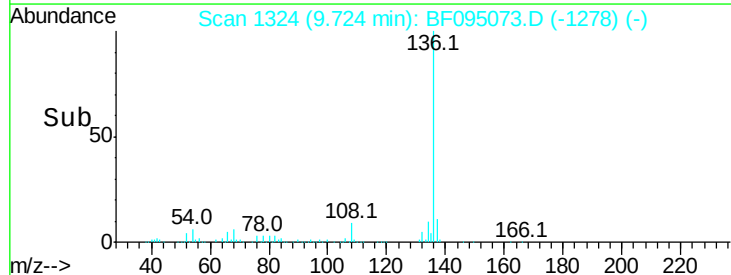
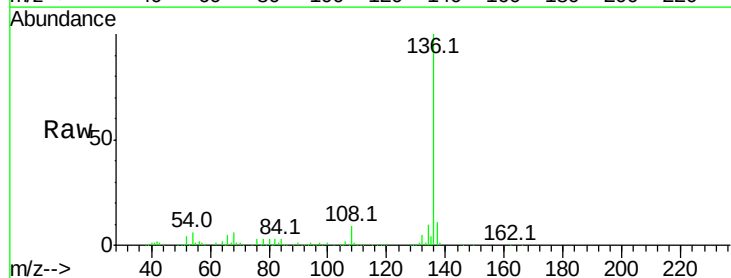
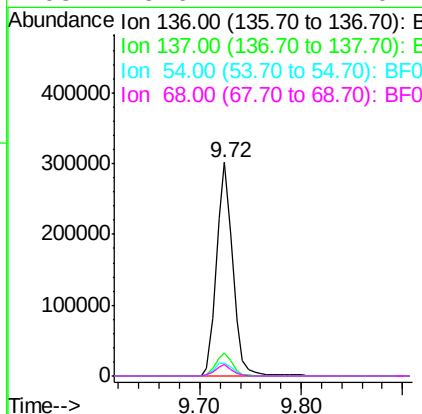
RT: 9.72 min Scan# 1324

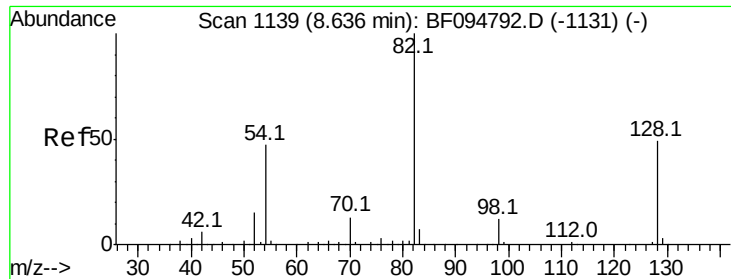
Delta R.T. -0.03 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	136	Resp:	334902
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.5	12.7
54	6.2	4.9	7.3
68	5.6	4.1	6.1





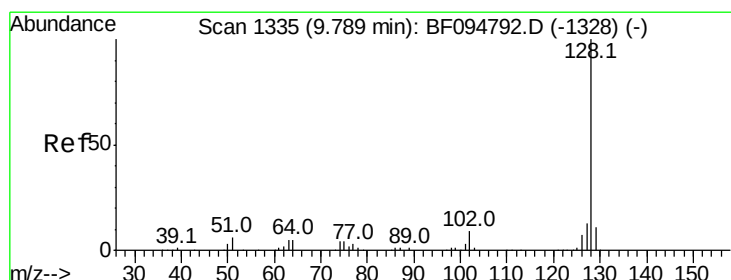
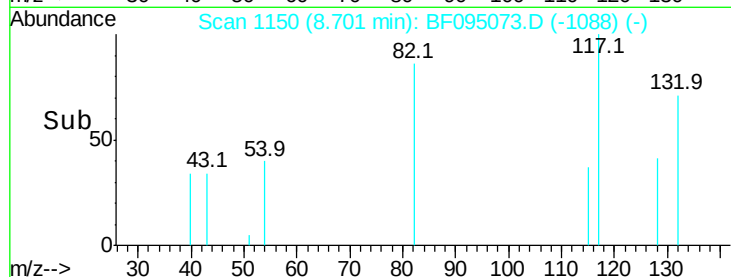
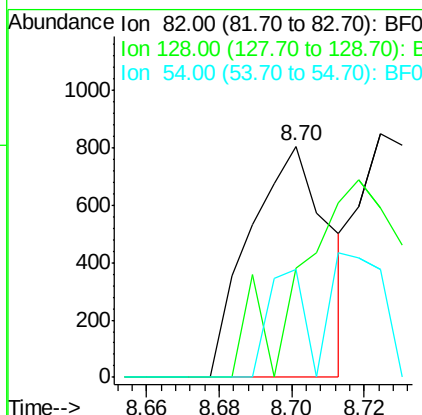
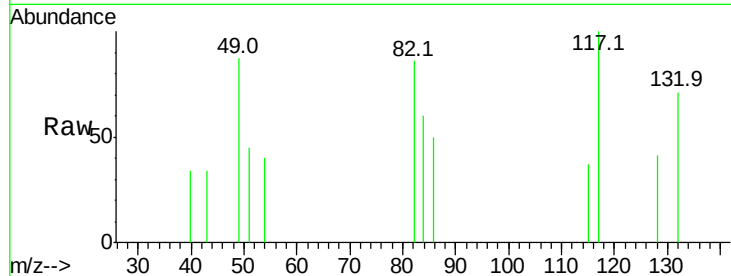
#23
Nitrobenzene-d5
Concen: 0.23 ng
RT: 8.70 min Scan# 1150
Delta R.T. 0.06 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Instrument :
BNA_F
ClientSampleId :
HY-SB409A

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.4	34.0	51.0
54	46.7	42.2	63.2

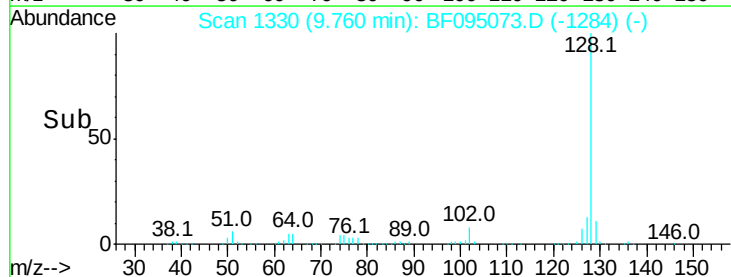
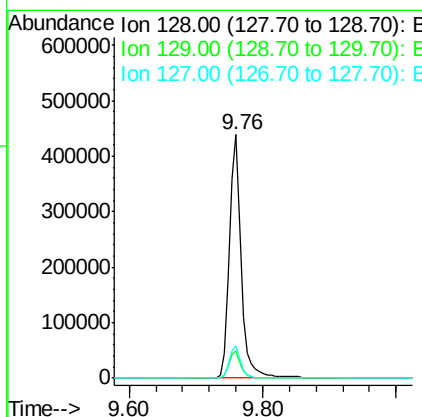
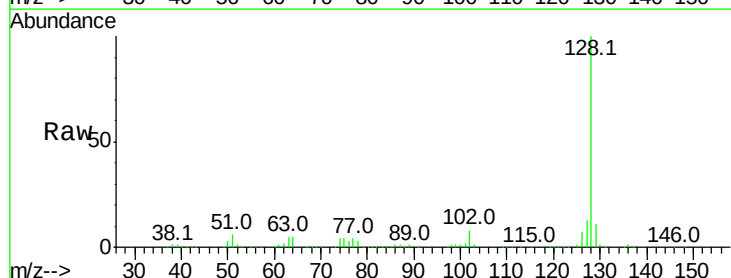
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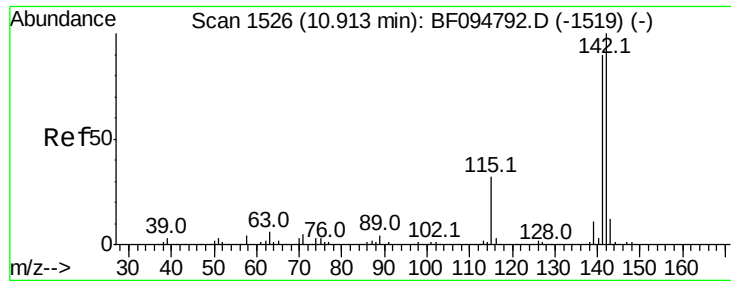
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#31
Naphthalene
Concen: 32.90 ng
RT: 9.76 min Scan# 1330
Delta R.T. -0.03 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.1	10.8	16.2





#37

2-Methylnaphthalene

Concen: 37.61 ng

RT: 10.88 min Scan# 1521

Delta R.T. -0.03 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

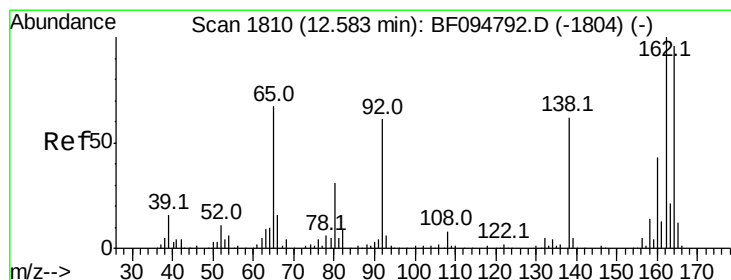
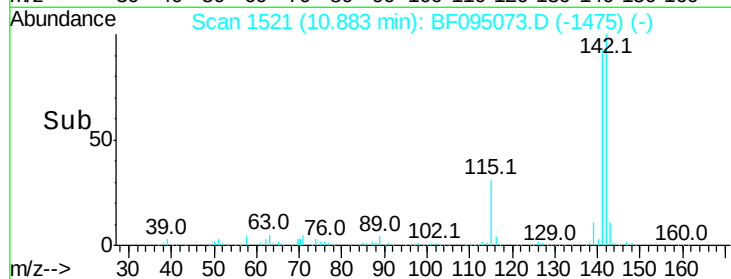
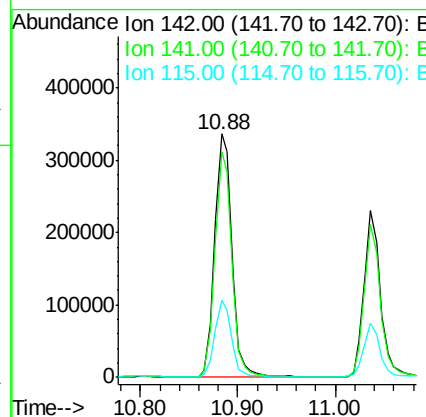
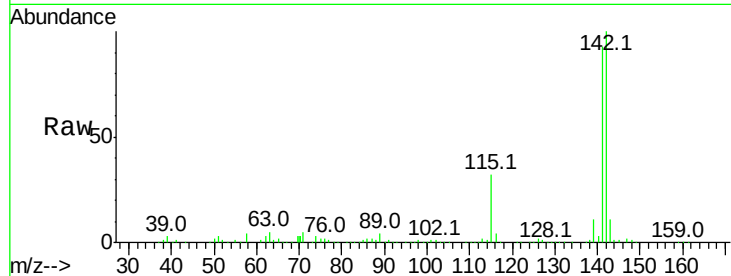
ClientSampleId :

HY-SB409A

Tot Ion:	142	Resp:	415473
Ion Ratio	Lower	Upper	
142	100		
141	92.7	71.3	106.9
115	31.5	27.1	40.7

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#38

Acenaphthene-d10

Concen: 20.00 ng

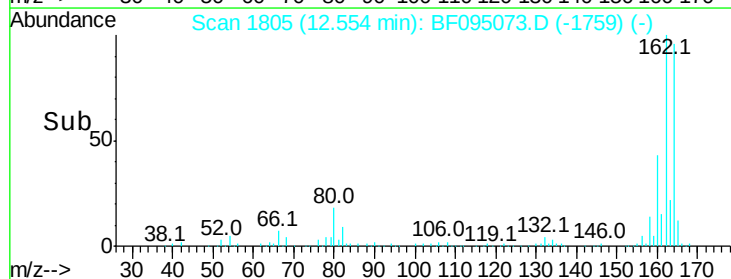
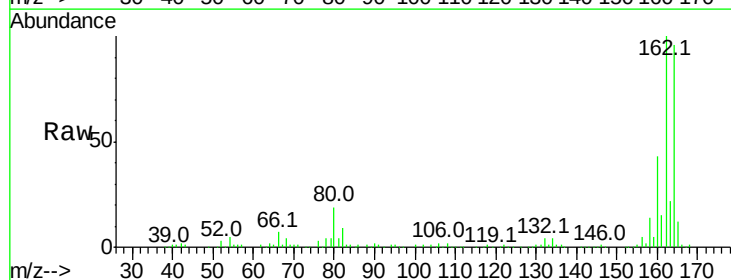
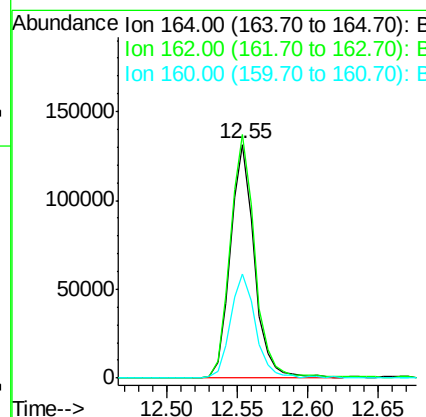
RT: 12.55 min Scan# 1805

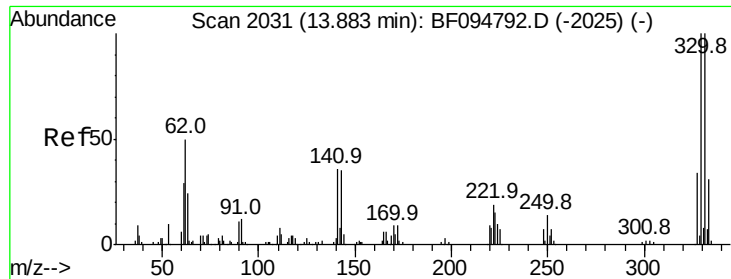
Delta R.T. -0.03 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	164	Resp:	155866
Ion Ratio	Lower	Upper	
164	100		
162	104.2	82.6	123.8
160	44.4	36.2	54.2





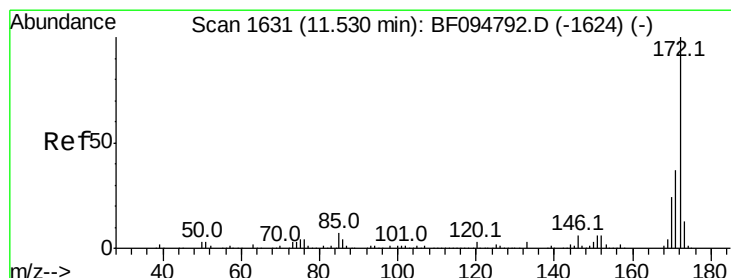
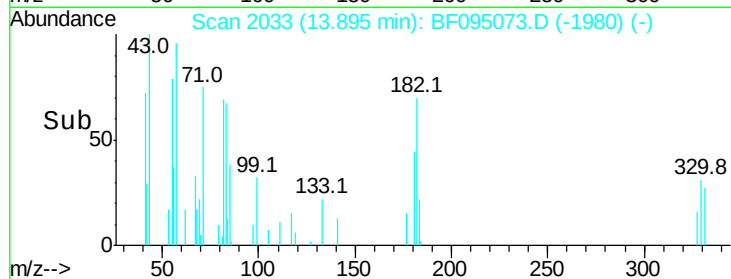
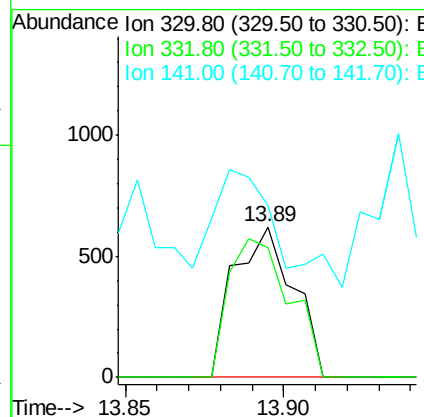
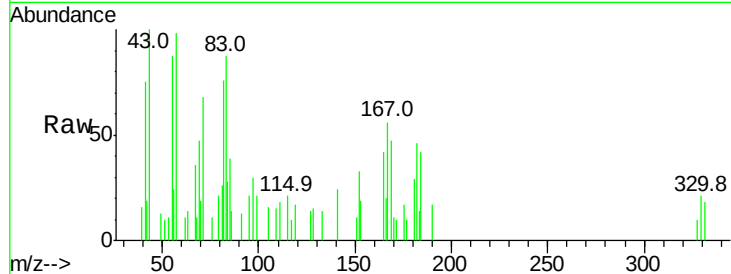
#41
 2,4,6-Tribromophenol
 Concen: 0.63 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. 0.01 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Instrument :
 BNA_F
 ClientSampled :
 HY-SB409A

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.6	115.0
141	62.2	31.4	47.2#

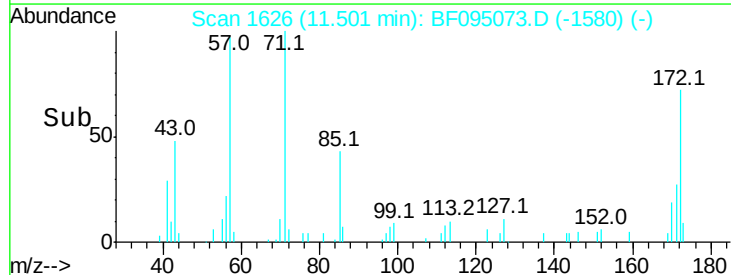
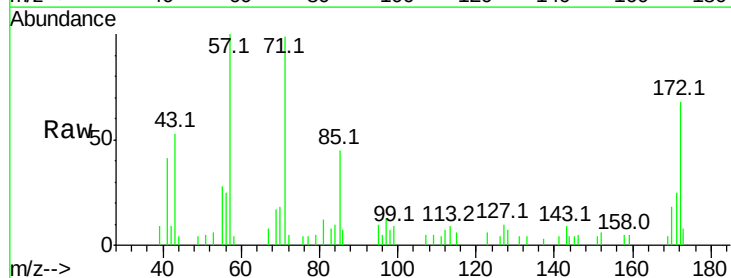
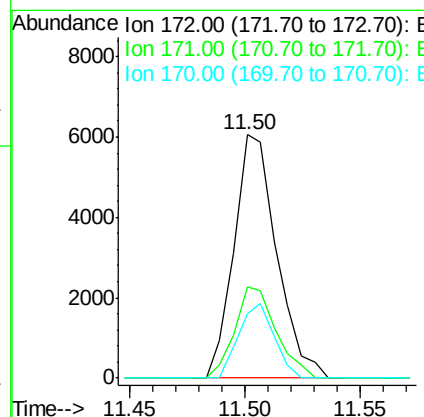
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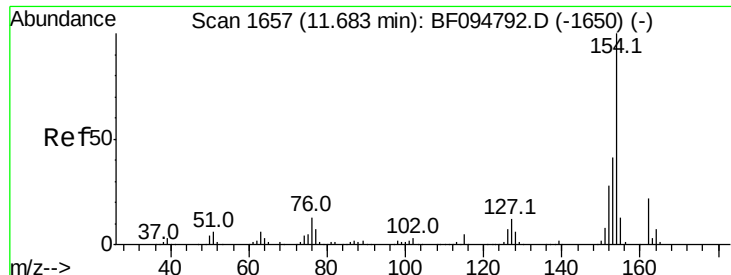
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#44
 2-Fluorobiphenyl
 Concen: 0.72 ng
 RT: 11.50 min Scan# 1626
 Delta R.T. -0.03 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	29.6	44.4
170	26.6	19.8	29.8





#45

1,1'-Biphenyl

Concen: 6.03 ng

RT: 11.65 min Scan# 1652

Delta R.T. -0.03 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

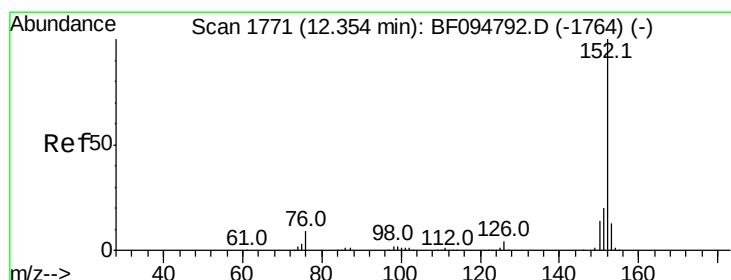
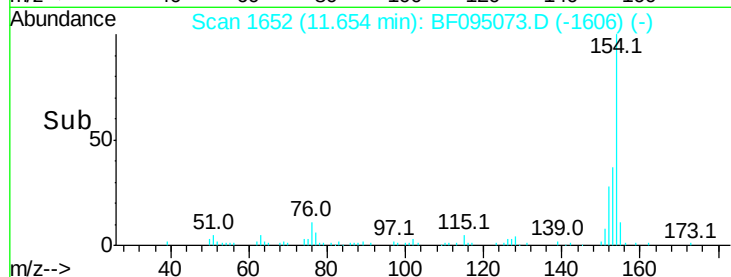
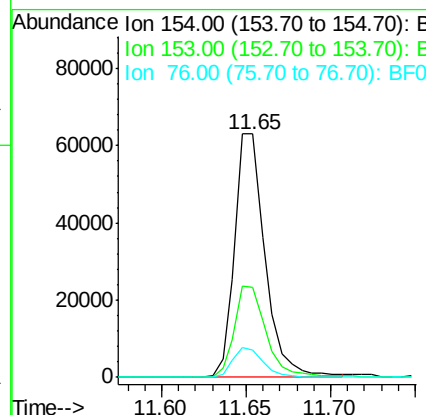
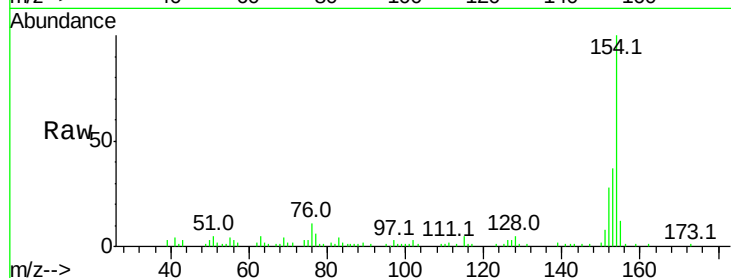
ClientSampleId :

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Tot Ion:	154	Resp:	79150
Ion Ratio	Lower	Upper	
154	100		
153	37.2	21.2	61.2
76	11.4	0.0	29.9

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#48

Acenaphthylene

Concen: 8.42 ng

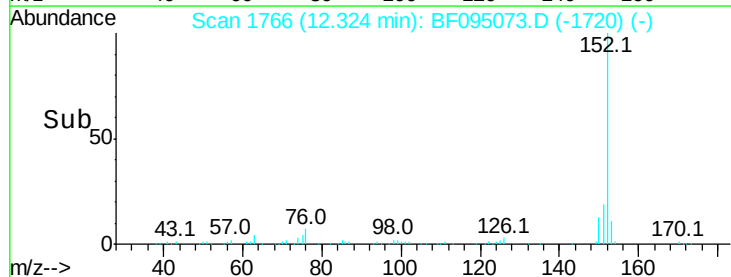
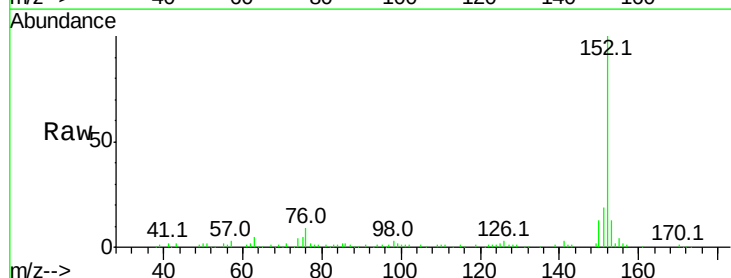
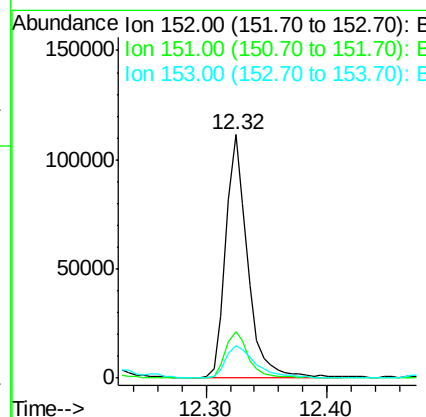
RT: 12.32 min Scan# 1766

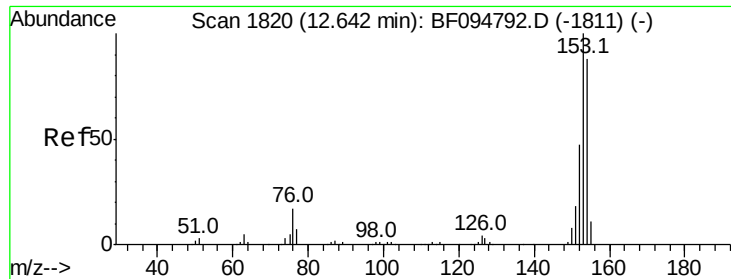
Delta R.T. -0.03 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	152	Resp:	139702
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.8	25.2
153	13.4	10.8	16.2





#51

Acenaphthene

Concen: 2.68 ng

RT: 12.61 min Scan# 1814

Delta R.T. -0.04 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

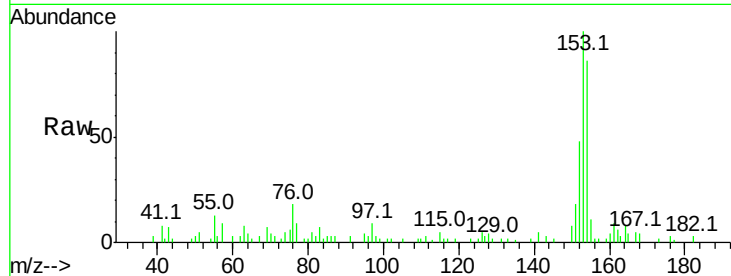
ClientSampled :

HY-SB409A

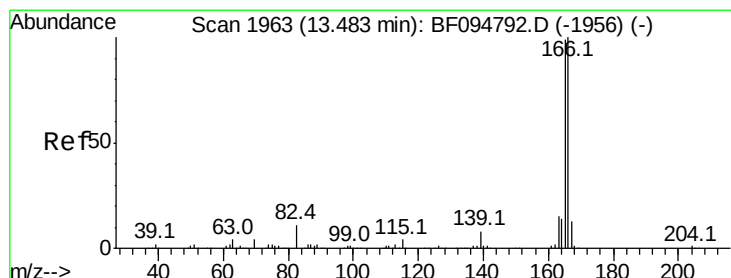
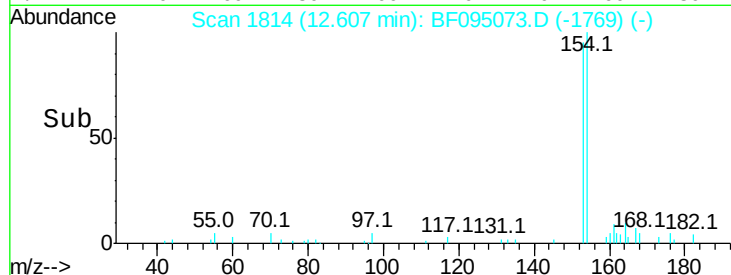
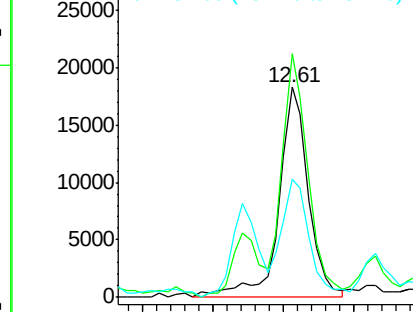
Tot Ion:	154	Resp:	26593
Ion	Ratio	Lower	Upper
154	100		
153	116.1	90.5	135.7
152	56.3	43.6	65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 9.27 ng

RT: 13.45 min Scan# 1958

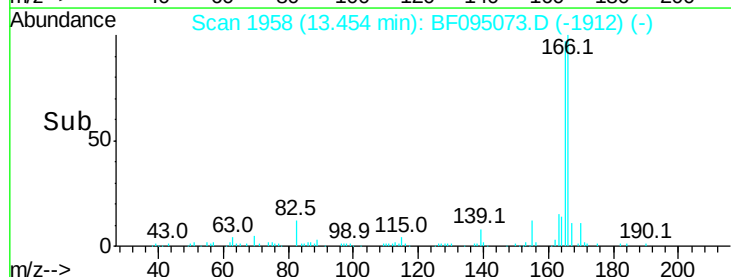
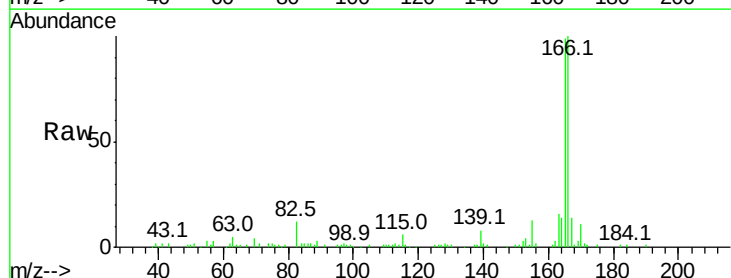
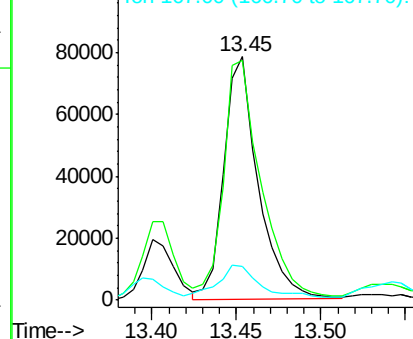
Delta R.T. -0.03 min

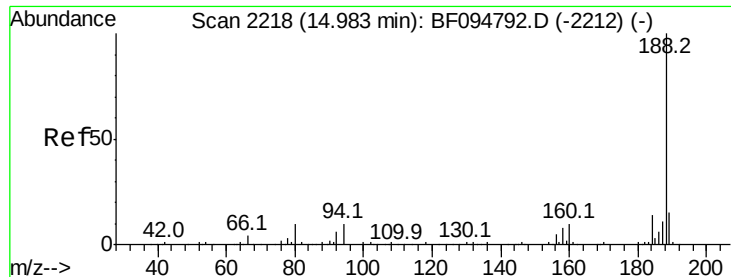
Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	166	Resp:	110632
Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.8	118.2
167	13.7	10.6	16.0

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





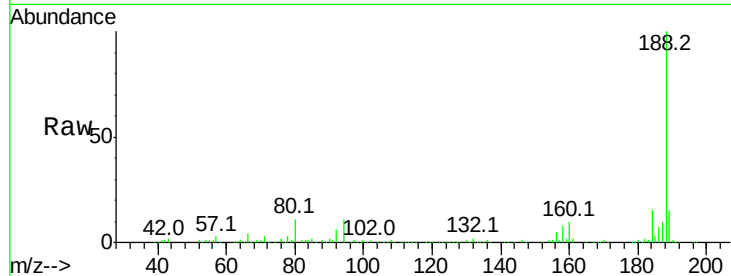
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.95 min Scan# 2213
Delta R.T. -0.03 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Instrument :
BNA_F
ClientSampleId :
HY-SB409A

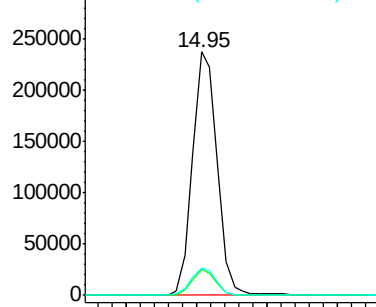
Tot Ion	Ratio	Resp	Lower	Upper
188	100	286993		
94	10.7		9.4	14.2
80	11.1		10.2	15.2

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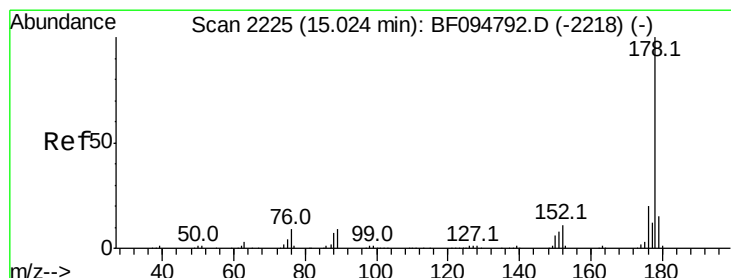
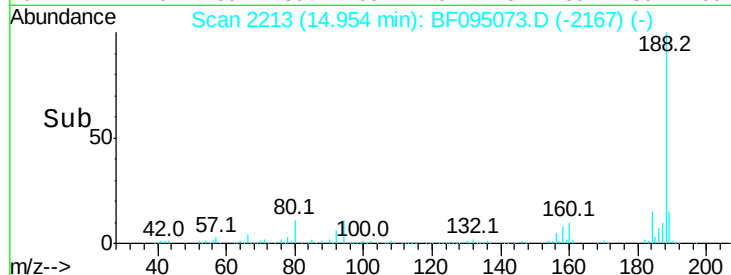
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0



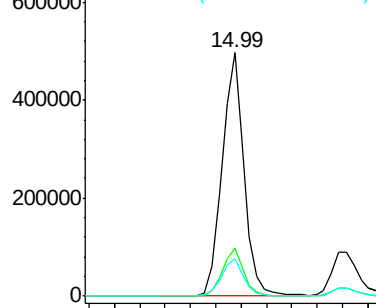
Time-->



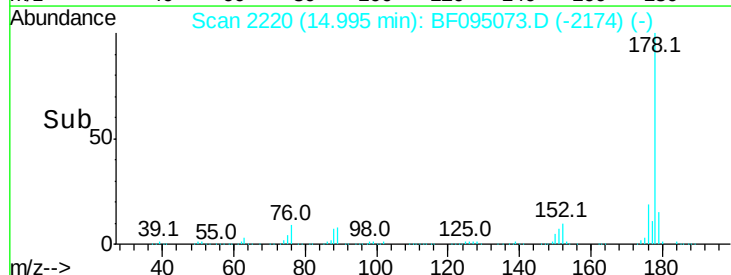
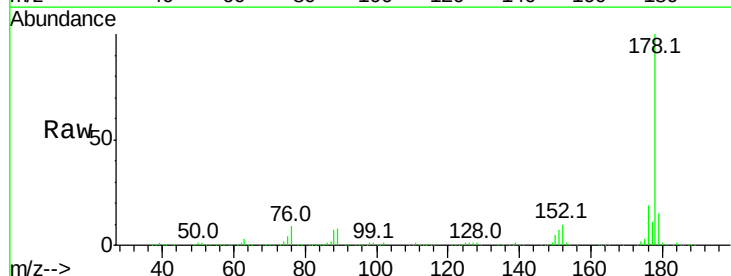
#70
Phenanthrene
Concen: 36.51 ng
RT: 14.99 min Scan# 2220
Delta R.T. -0.03 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

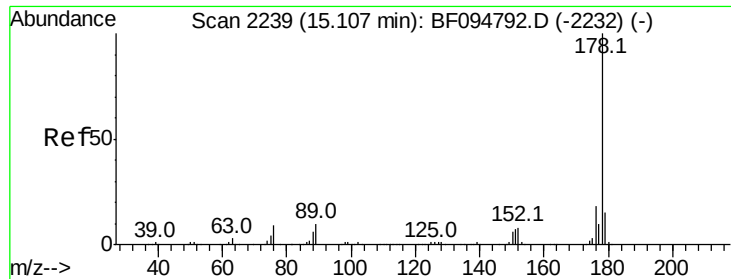
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	602081		
176	19.5		16.2	24.4
179	15.3		12.6	19.0

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



Time-->





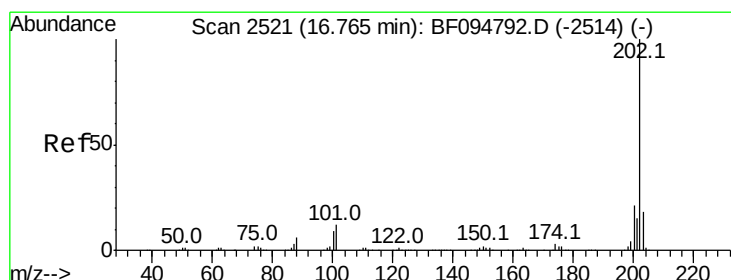
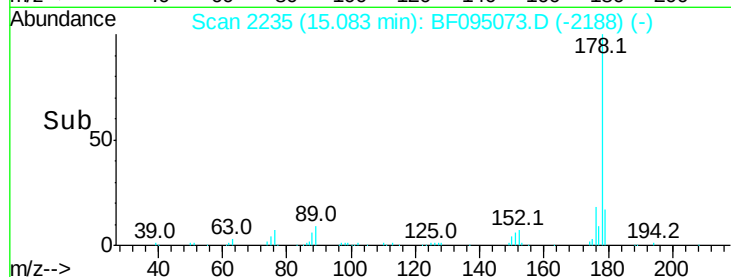
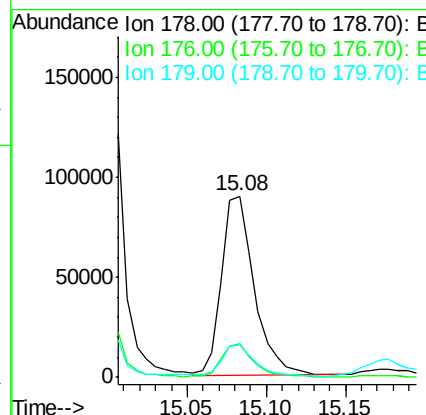
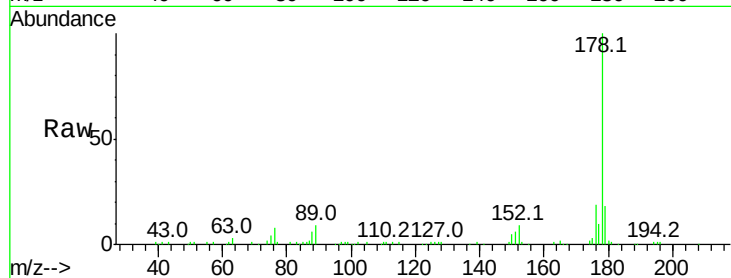
#71
 Anthracene
 Concen: 7.61 ng
 RT: 15.08 min Scan# 2235
 Delta R.T. -0.02 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB409A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	17.8	12.7	19.1

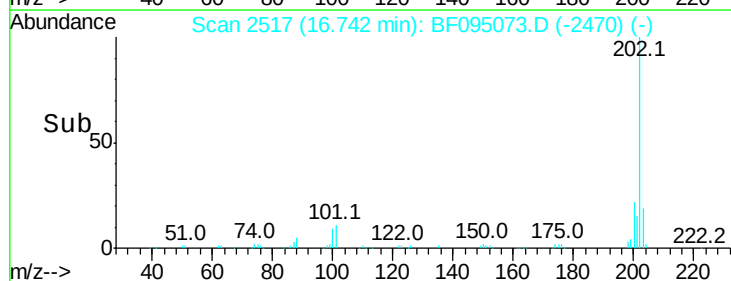
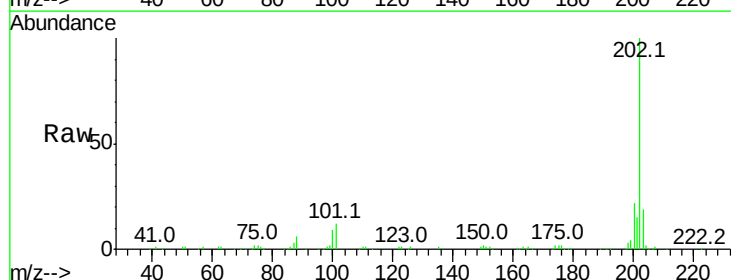
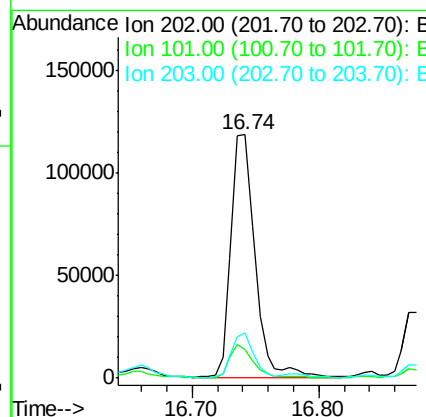
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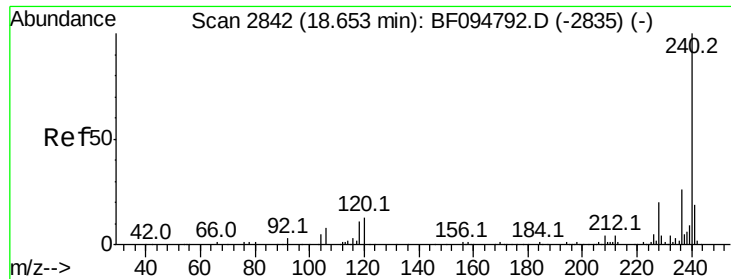
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#74
 Fluoranthene
 Concen: 9.18 ng
 RT: 16.74 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	33.2
203	18.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.63 min Scan# 2838

Delta R.T. -0.02 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

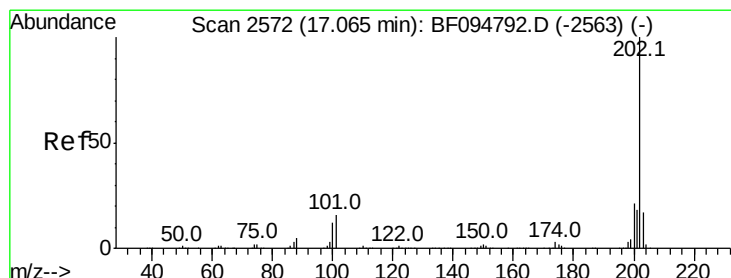
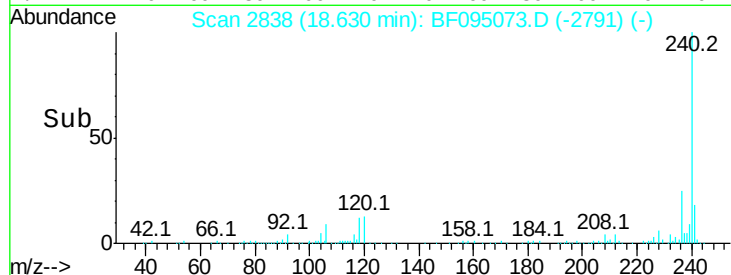
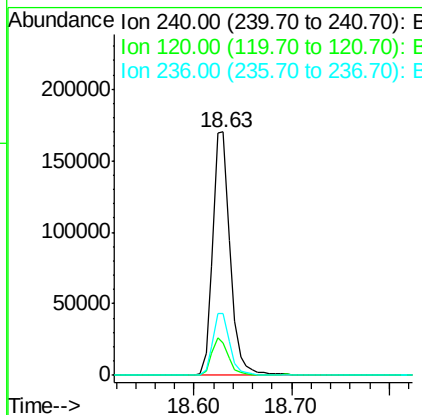
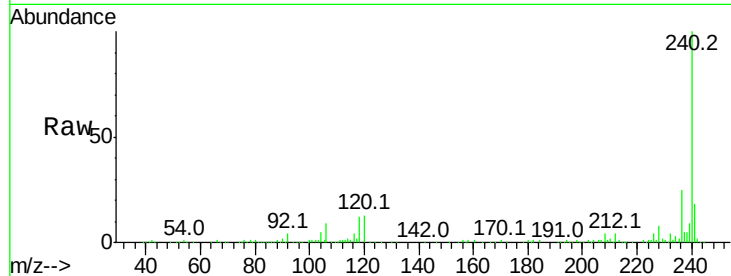
ClientSampleId :

HY-SB409A

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.3	5.8	8.8#
236	25.2	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 26.57 ng

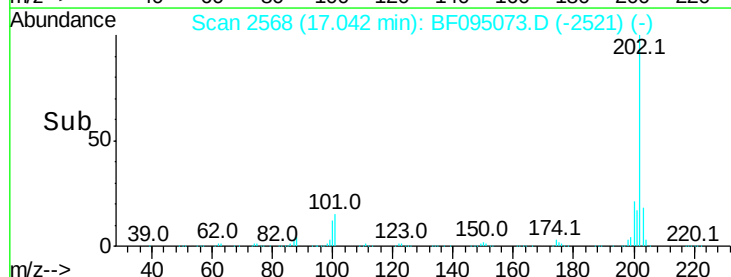
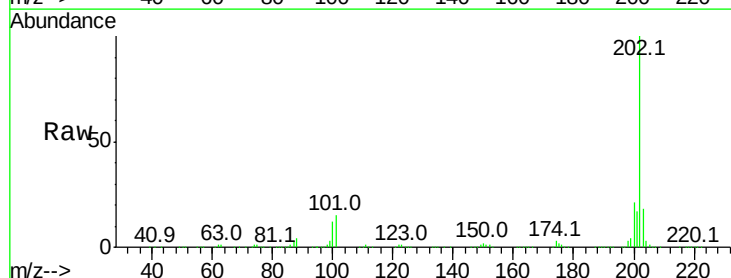
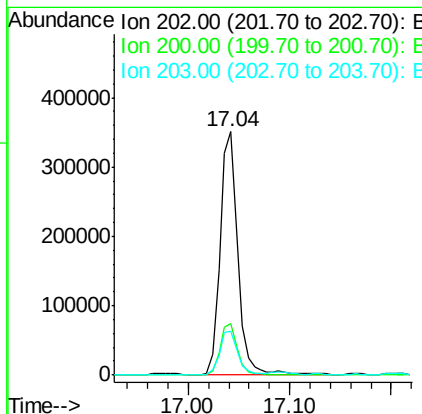
RT: 17.04 min Scan# 2568

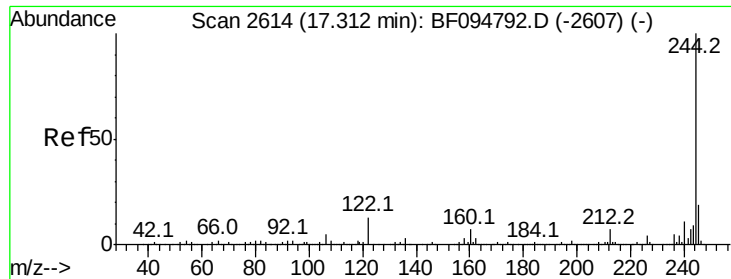
Delta R.T. -0.02 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.6	26.4
203	18.0	14.4	21.6





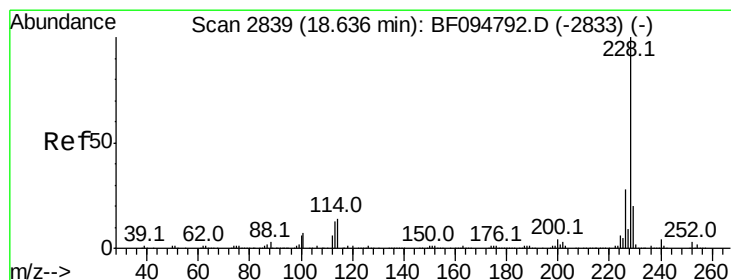
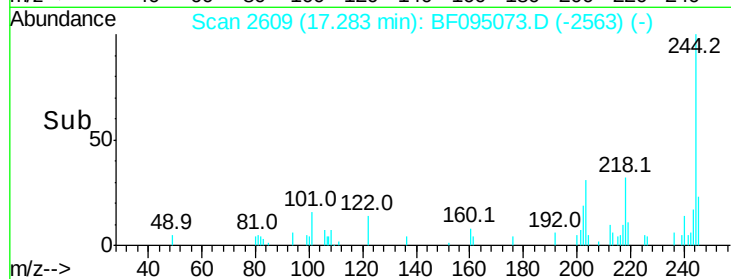
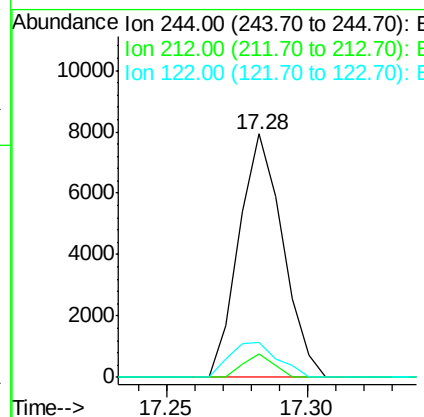
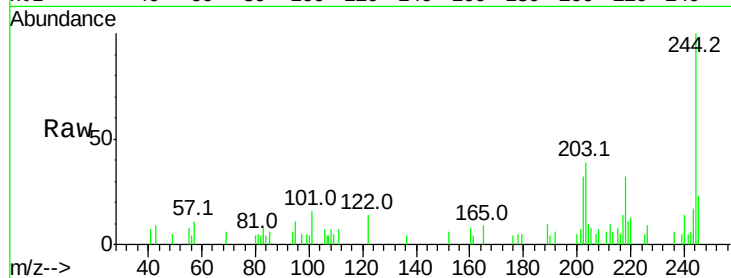
#78
 Terphenyl-d14
 Concen: 0.89 ng
 RT: 17.28 min Scan# 2609
 Delta R.T. -0.03 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Instrument :
 BNA_F
 ClientSampled :
 HY-SB409A

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.8	6.0	9.0#
122	14.1	10.3	15.5

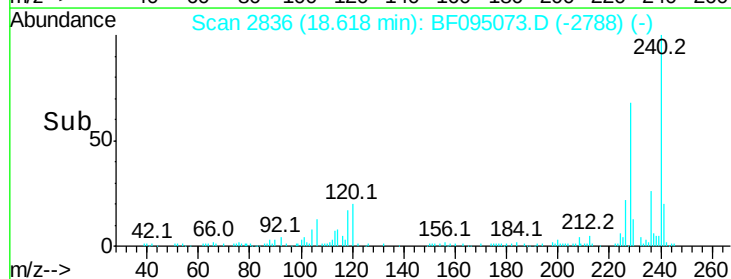
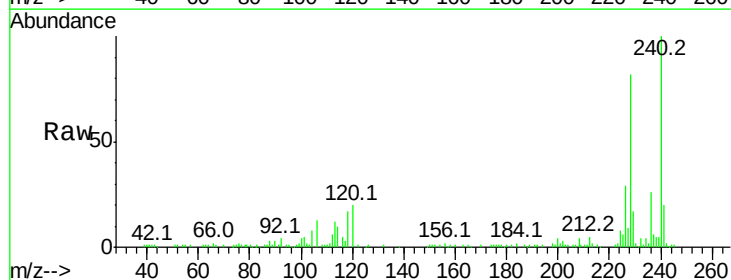
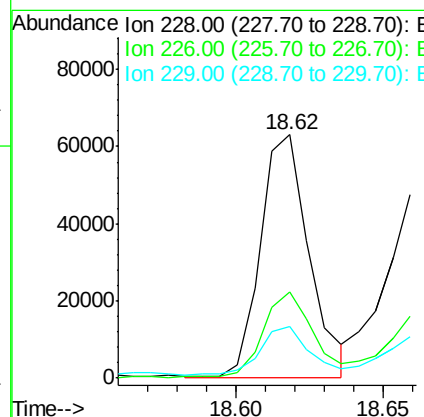
Manual Integrations
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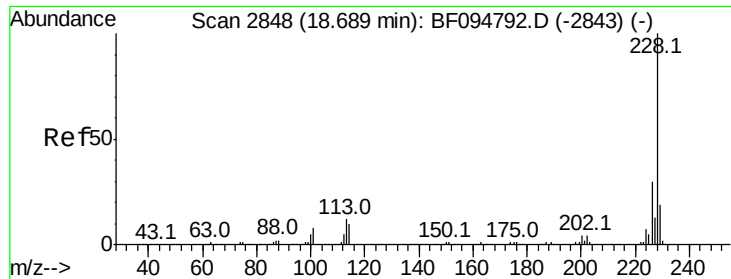
mohammad
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#80
 Benzo(a)anthracene
 Concen: 5.93 ng m
 RT: 18.62 min Scan# 2836
 Delta R.T. -0.02 min
 Lab File: BF095073.D
 Acq: 11 May 2017 00:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.6	22.6	33.8#
229	21.0	16.3	24.5





#82

Chrysene

Concen: 6.29 ng

RT: 18.67 min Scan# 2844

Delta R.T. -0.02 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

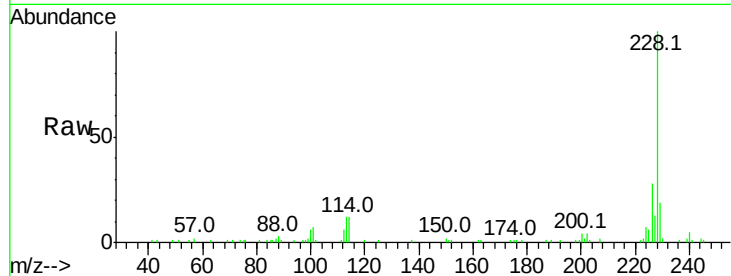
ClientSampleId :

HY-SB409A

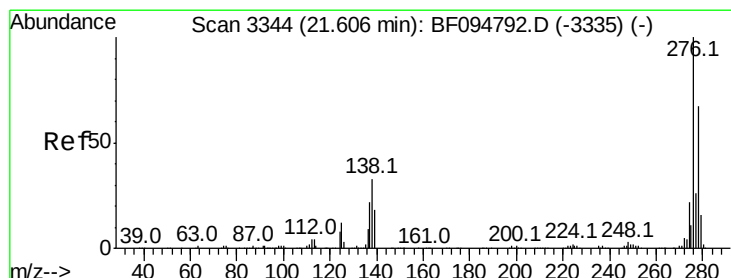
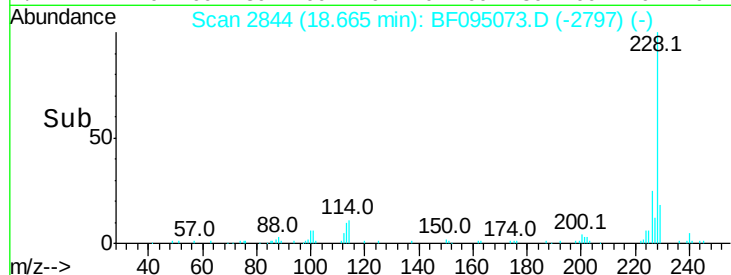
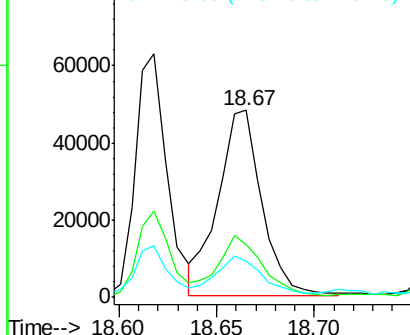
Tot Ion:	228	Resp:	75018
Ion Ratio	Lower	Upper	
228	100		
226	28.4	24.9	37.3
229	19.4	15.8	23.6

Manual Integrations
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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: 2.82 ng

RT: 21.61 min Scan# 3344

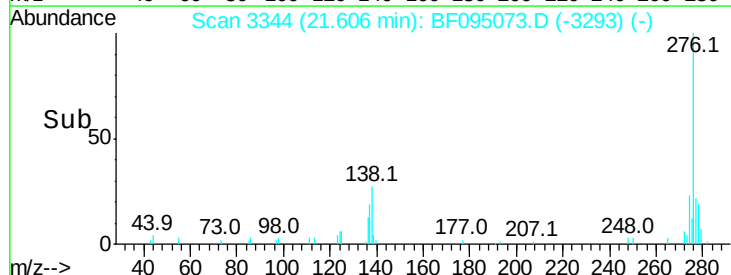
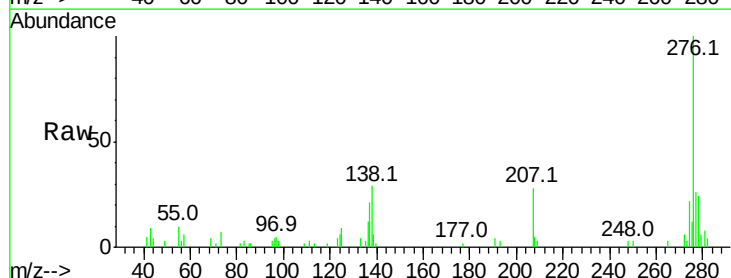
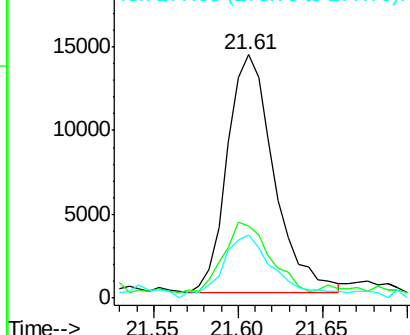
Delta R.T. -0.00 min

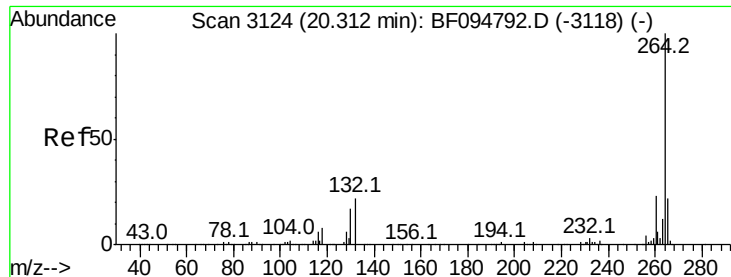
Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	276	Resp:	27293
Ion Ratio	Lower	Upper	
276	100		
138	28.8	27.8	41.6
277	30.0	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





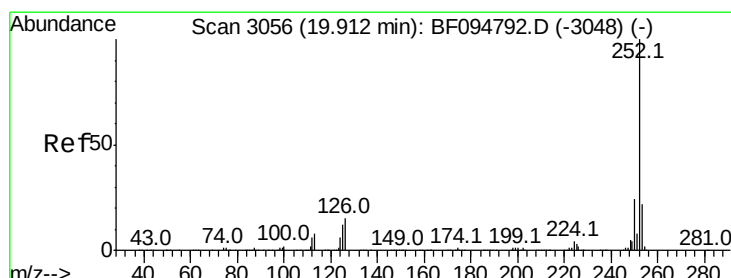
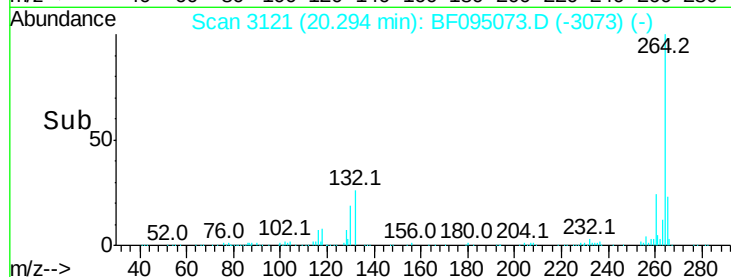
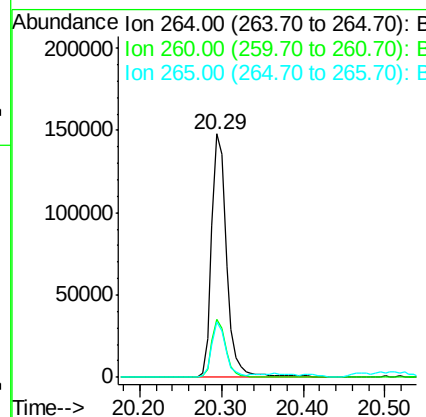
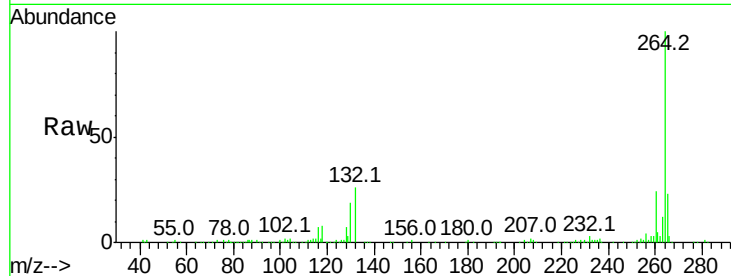
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.02 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Instrument :
BNA_F
ClientSampleId :
HY-SB409A

Tot Ion:	264	Resp:	190192
Ion Ratio	Lower	Upper	
264	100		
260	23.8	19.5	29.3
265	22.5	17.2	25.8

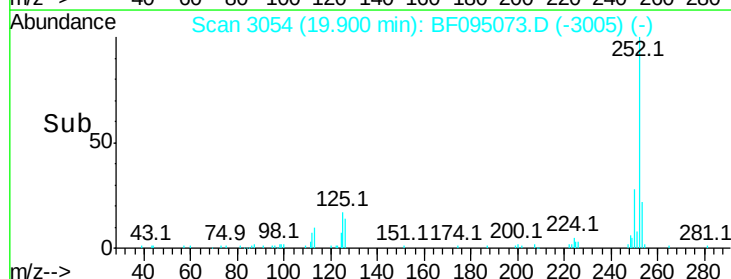
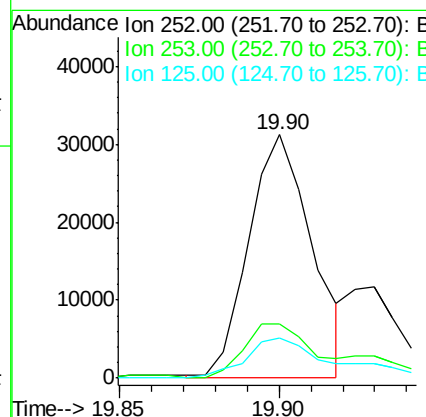
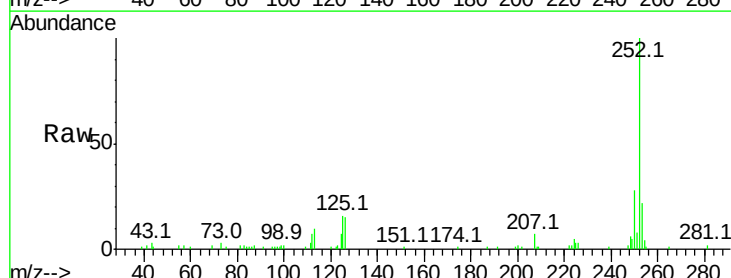
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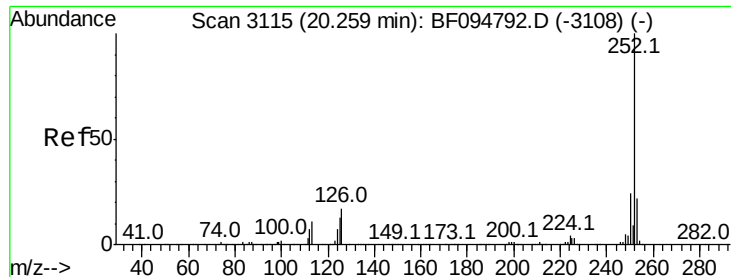
mohammad
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#87
Benzo(b)fluoranthene
Concen: 3.68 ng m
RT: 19.90 min Scan# 3054
Delta R.T. -0.01 min
Lab File: BF095073.D
Acq: 11 May 2017 00:22

Tgt Ion:	252	Resp:	43190
Ion Ratio	Lower	Upper	
252	100		
253	22.1	18.1	27.1
125	16.4	9.8	14.8#





#89

Benzo(a)pyrene

Concen: 6.84 ng

RT: 20.24 min Scan# 3112

Delta R.T. -0.02 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Instrument :

BNA_F

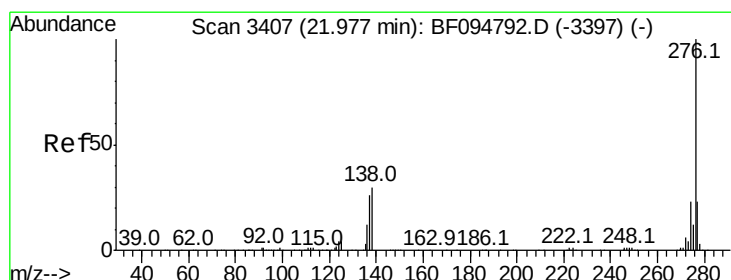
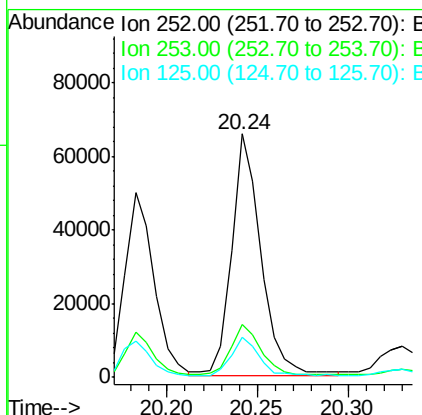
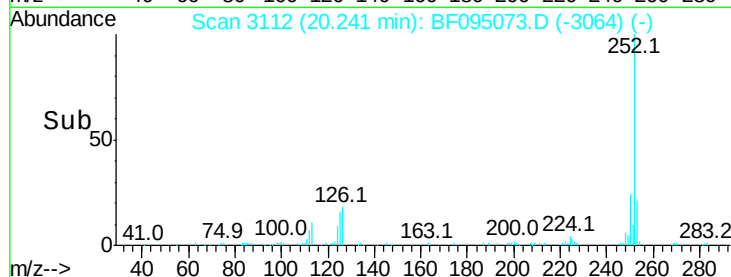
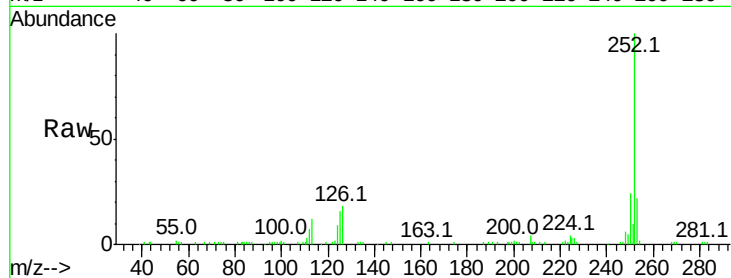
ClientSampleId :

HY-SB409A

Tot Ion:	252	Resp:	74221
Ion Ratio	Lower	Upper	
252	100		
253	21.7	17.5	26.3
125	16.3	11.0	16.4

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 4.32 ng

RT: 21.98 min Scan# 3408

Delta R.T. 0.01 min

Lab File: BF095073.D

Acq: 11 May 2017 00:22

Tgt Ion:	276	Resp:	37925
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.6	28.0
138	27.8	25.4	38.0

