

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050617\
 Data File : BF094975.D
 Acq On : 8 May 2017 8:22
 Operator : SJ/MA
 Sample : I2996-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-01

Manual Integrations
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mohammad
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Quant Time: May 08 09:11:17 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	7.72	152	101568	20.00	ng	-0.01
21) Naphthalene-d8	9.74	136	367210	20.00	ng	-0.02
38) Acenaphthene-d10	12.57	164	168519	20.00	ng	-0.02
63) Phenanthrene-d10	14.97	188	287618	20.00	ng	-0.01
75) Chrysene-d12	18.64	240	207420	20.00	ng	-0.01
86) Perylene-d12	20.31	264	189602	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	179092	29.40	ng	-0.01
7) Phenol-d6	7.25	99	245115	33.53	ng	-0.02
23) Nitrobenzene-d5	8.61	82	125103	21.48	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	43449	31.48	ng	-0.02
44) 2-Fluorobiphenyl	11.51	172	266347	22.75	ng	-0.02
78) Terphenyl-d14	17.29	244	178144	18.92	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.77	128	54649	2.96	ng	95
37) 2-Methylnaphthalene	10.90	142	47046	3.88	ng	97
49) Dimethylphthalate	12.21	163	35521	2.57	ng	96
51) Acenaphthene	12.62	154	120922	11.28	ng	97
54) Dibenzofuran	12.91	168	161530	10.89	ng	93
57) Fluorene	13.46	166	228763	17.74	ng	99
70) Phenanthrene	15.02	178	1901782	115.08	ng	99
71) Anthracene	15.09	178	596644	35.34	ng	98
72) Carbazole	15.37	167	124354	8.10	ng	96
74) Fluoranthene	16.77	202	2091507	123.38	ng	99
77) Pyrene	17.07	202	1659525	106.98	ng	99
80) Benzo(a)anthracene	18.63	228	919614	76.18	ng	100
82) Chrysene	18.68	228	806413	69.09	ng	96
85) Indeno(1,2,3-cd)pyrene	21.60	276	316658	33.41	ng	94
87) Benzo(b)fluoranthene	19.91	252	915425m	78.14	ng	
88) Benzo(k)fluoranthene	19.93	252	232519m	20.57	ng	
89) Benzo(a)pyrene	20.25	252	599599	55.46	ng	99
90) Dibenzo(a,h)anthracene	21.60	278	88475m	9.91	ng	
91) Benzo(a,h,i)perylene	21.97	276	260446	29.73	ng	98

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

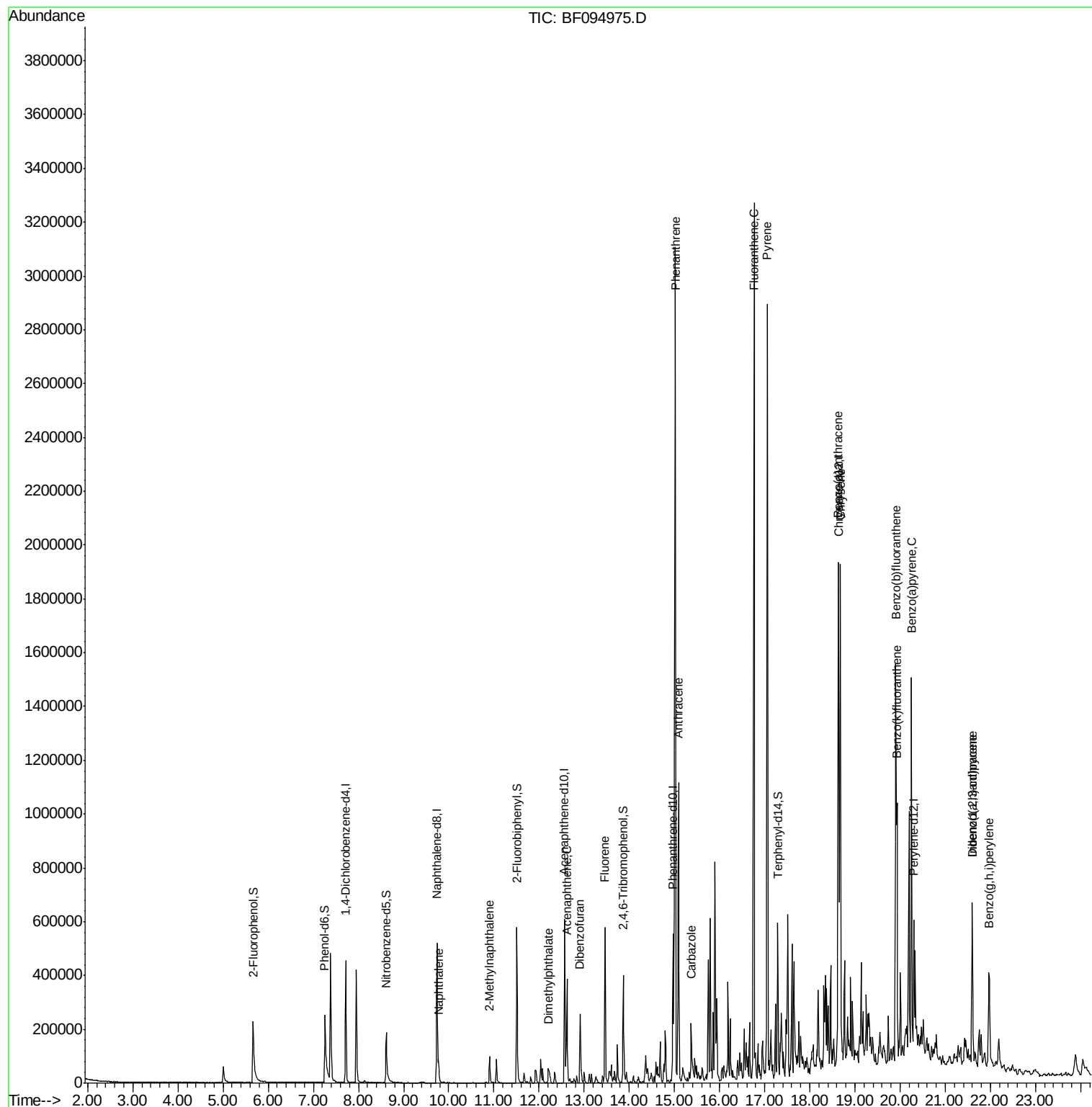
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050617\
Data File : BF094975.D
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ALS Vial : 22 Sample Multiplier: 1

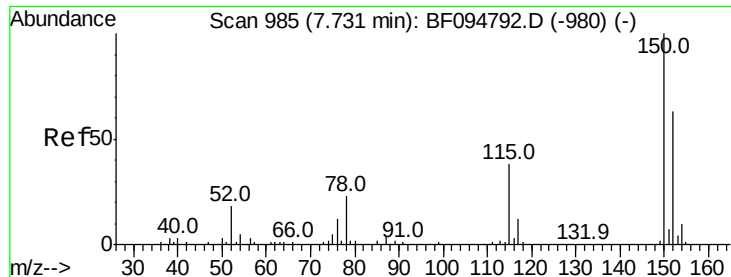
Instrument :
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#1

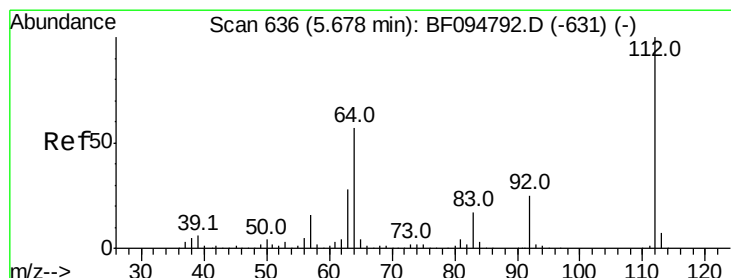
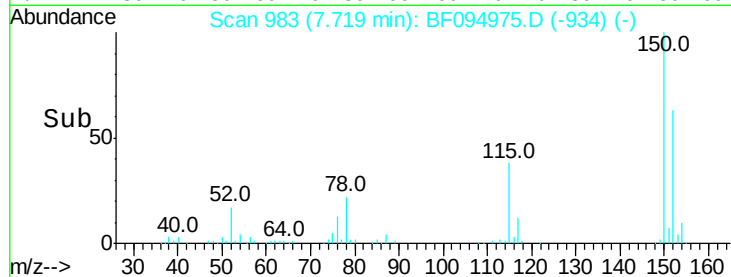
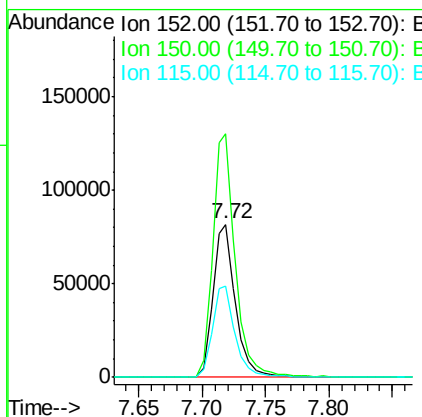
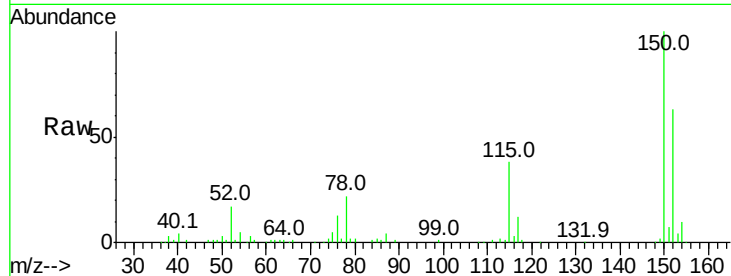
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 983
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
SS-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	126.2	189.2
115	59.9	52.2	78.2

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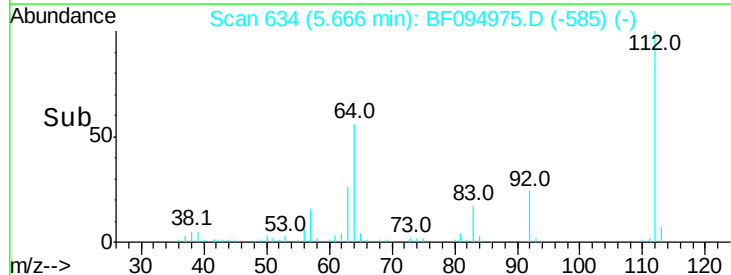
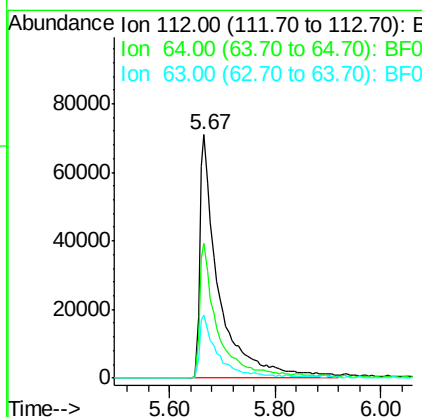
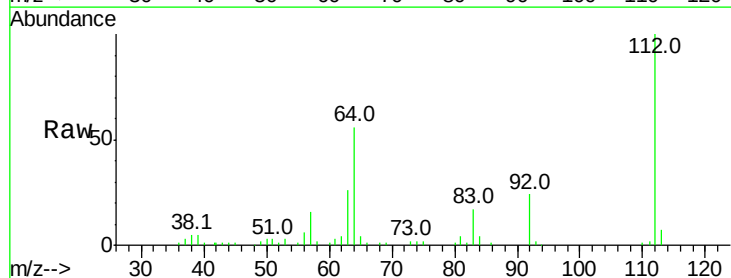
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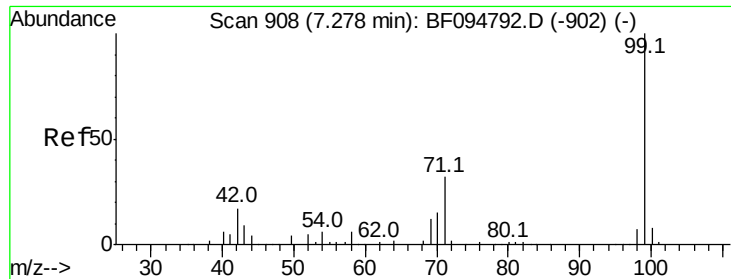


#5

2-Fluorophenol
Concen: 29.40 ng
RT: 5.67 min Scan# 634
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.6	46.0	69.0
63	26.0	23.4	35.0





#7

Phenol-d6

Concen: 33.53 ng

RT: 7.25 min Scan# 904

Delta R.T. -0.02 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Instrument :

BNA_F

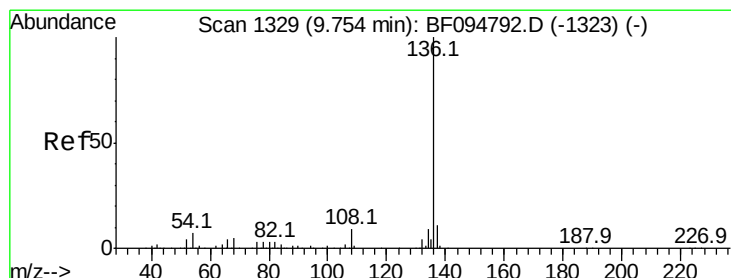
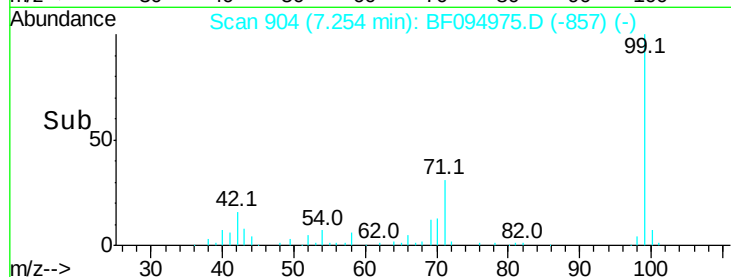
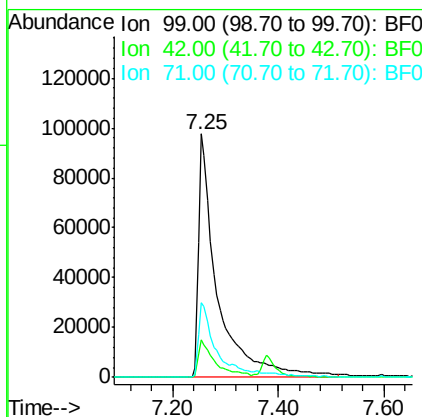
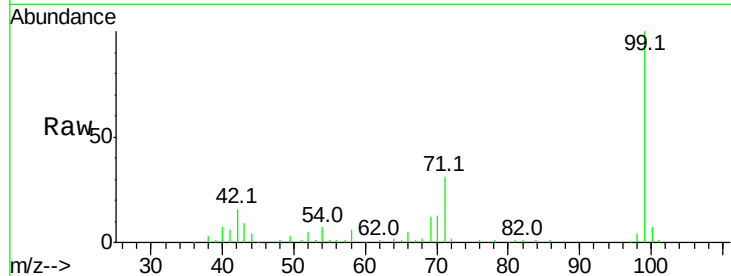
ClientSampled :

SS-01

Tot Ion:	99	Resp:	245115
Ion Ratio	Lower	Upper	
99	100		
42	15.7	13.5	20.3
71	30.6	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

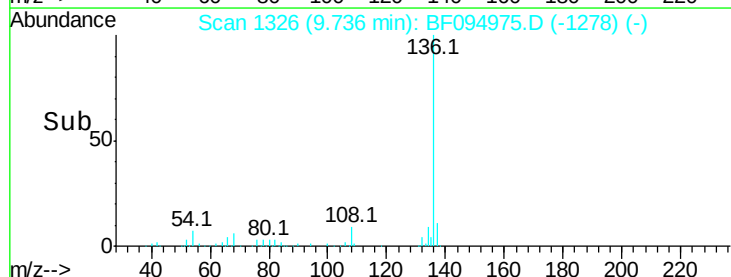
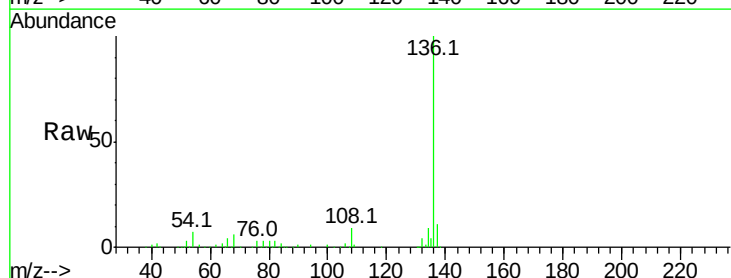
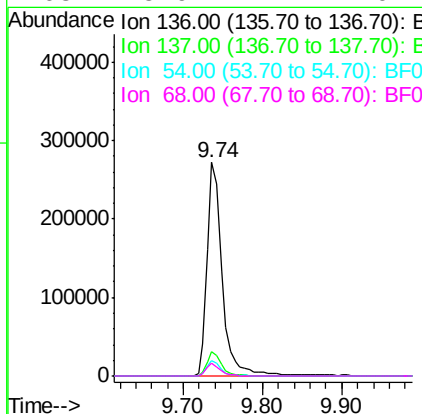
RT: 9.74 min Scan# 1326

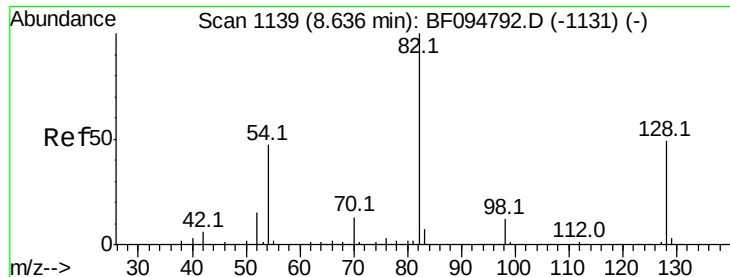
Delta R.T. -0.02 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Tgt Ion:	136	Resp:	367210
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.5	12.7
54	7.0	4.9	7.3
68	5.9	4.1	6.1





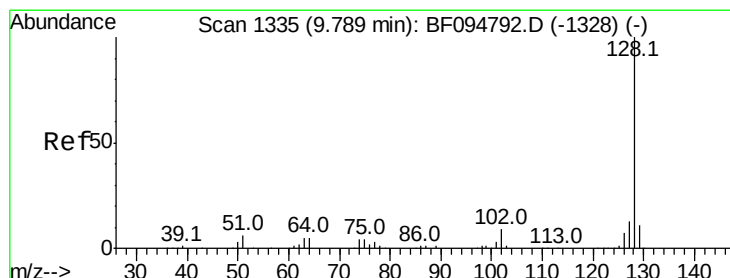
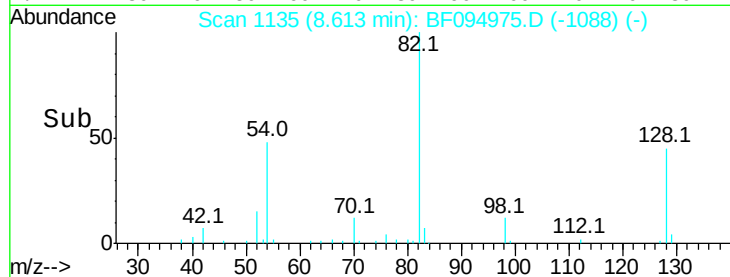
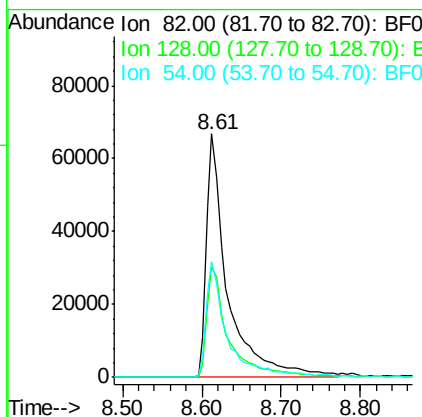
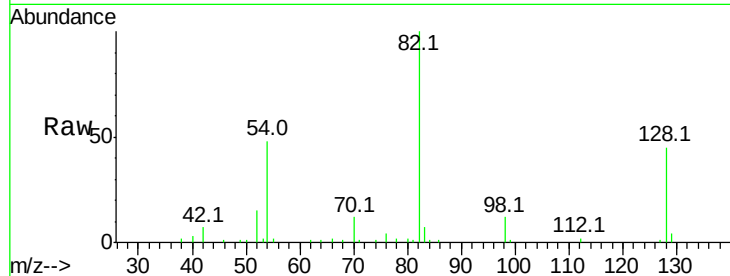
#23
Nitrobenzene-d5
Concen: 21.48 ng
RT: 8.61 min Scan# 1135
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampled :
SS-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.0	51.0
54	47.6	42.2	63.2

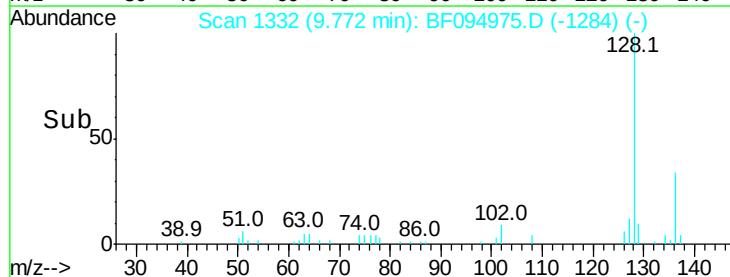
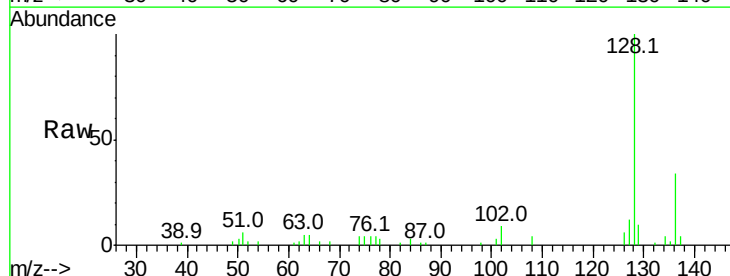
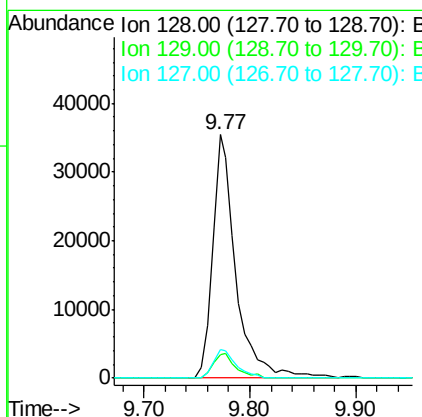
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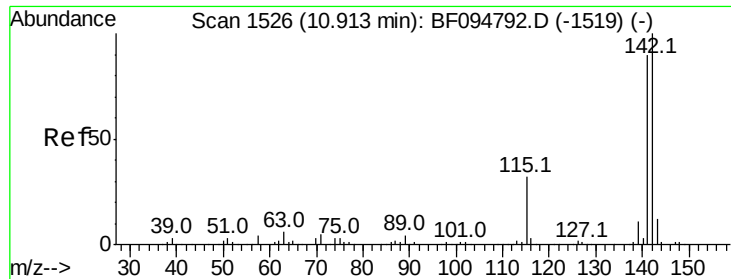
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#31
Naphthalene
Concen: 2.96 ng
RT: 9.77 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.5	9.0	13.6
127	11.5	10.8	16.2





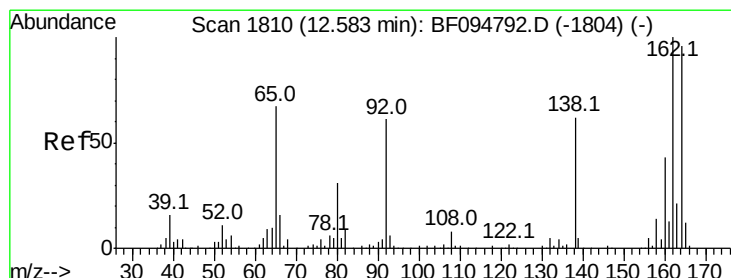
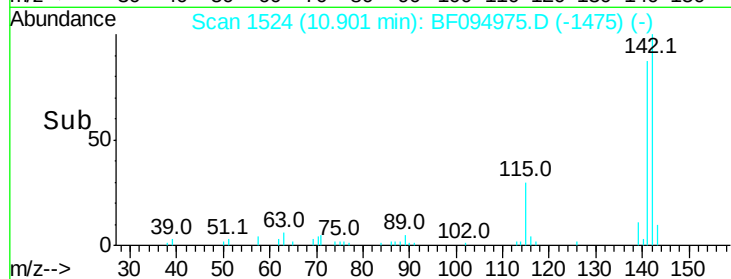
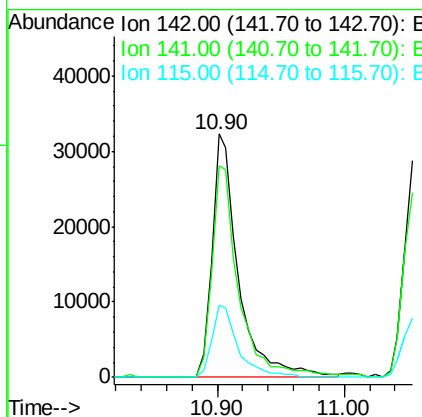
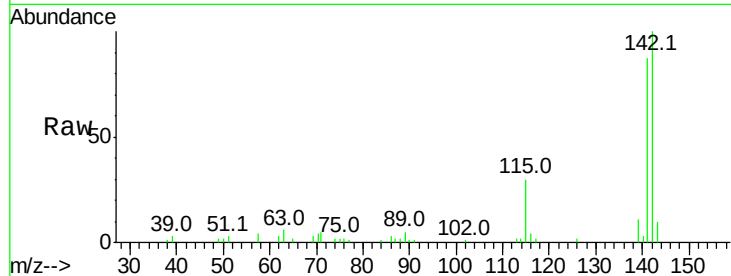
#37
2-Methylnaphthalene
Concen: 3.88 ng
RT: 10.90 min Scan# 1524
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
SS-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.1	71.3	106.9
115	29.9	27.1	40.7

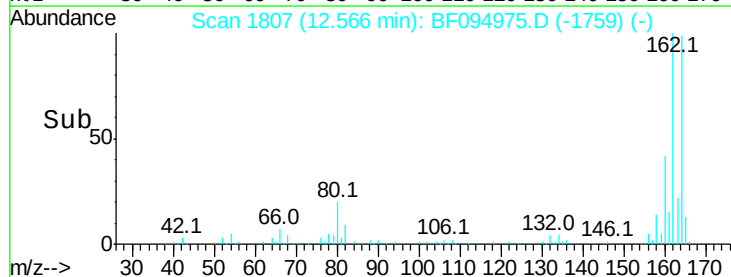
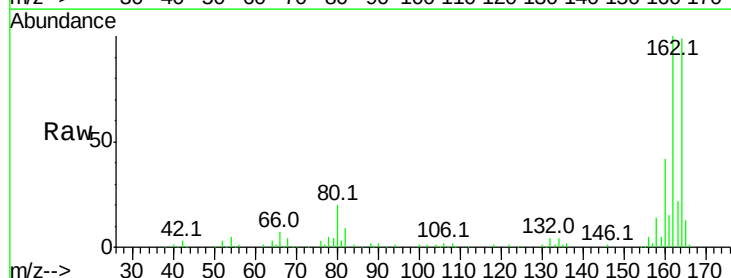
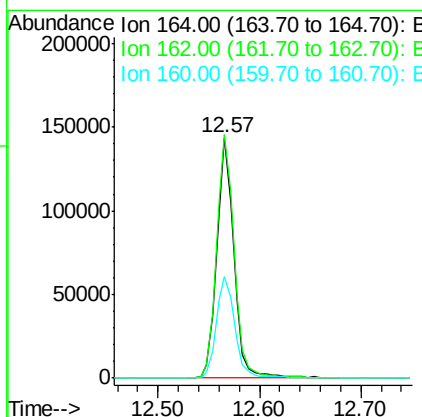
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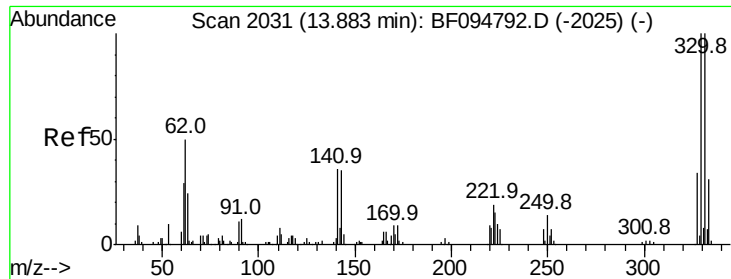
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.57 min Scan# 1807
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.6	123.8
160	42.5	36.2	54.2





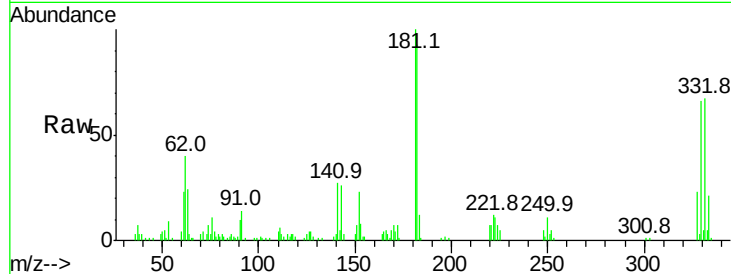
#41
 2,4,6-Tribromophenol
 Concen: 31.48 ng
 RT: 13.87 min Scan# 2028
 Delta R.T. -0.02 min
 Lab File: BF094975.D
 Acq: 8 May 2017 8:22

Instrument :
 BNA_F
 ClientSampled :
 SS-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.8	76.6	115.0
141	42.8	31.4	47.2

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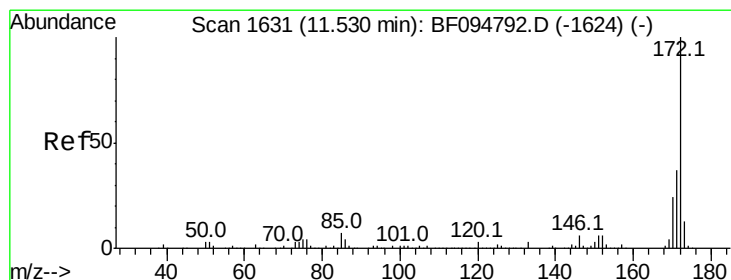
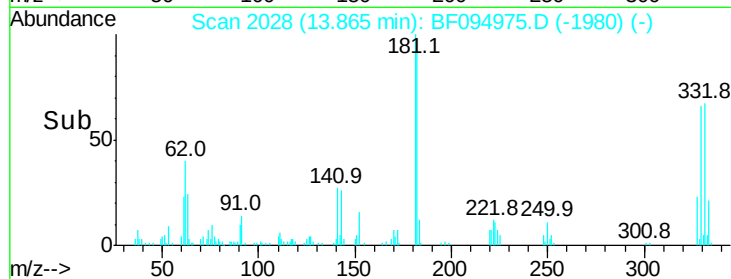
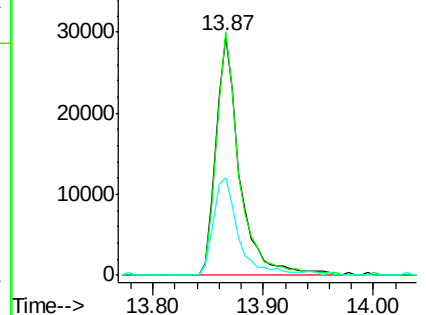


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 22.75 ng
 RT: 11.51 min Scan# 1627
 Delta R.T. -0.02 min
 Lab File: BF094975.D
 Acq: 8 May 2017 8:22

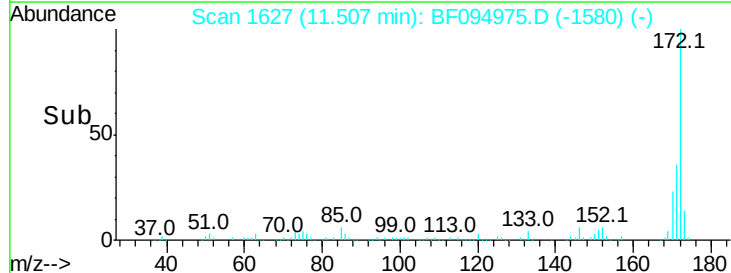
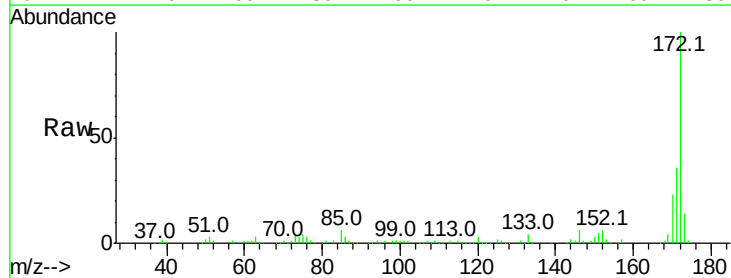
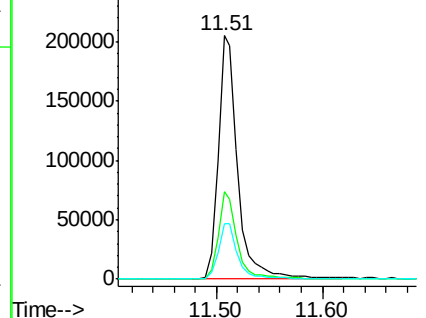
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.0	19.8	29.8

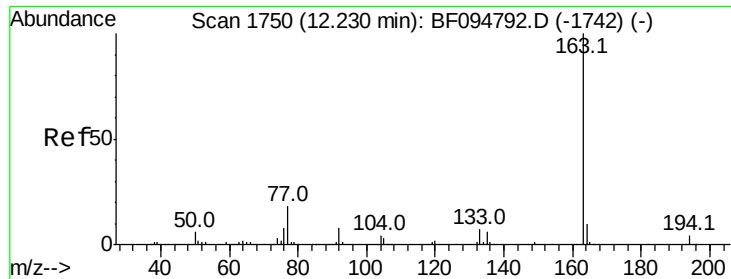
Abundance

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





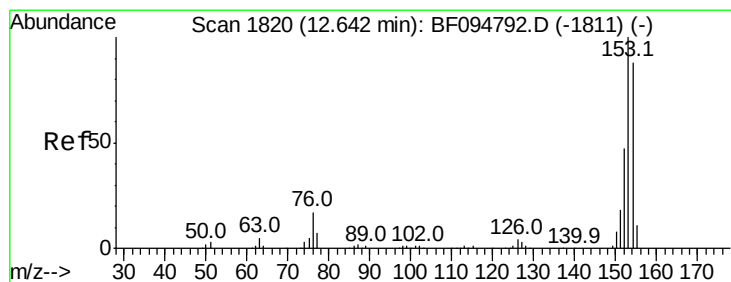
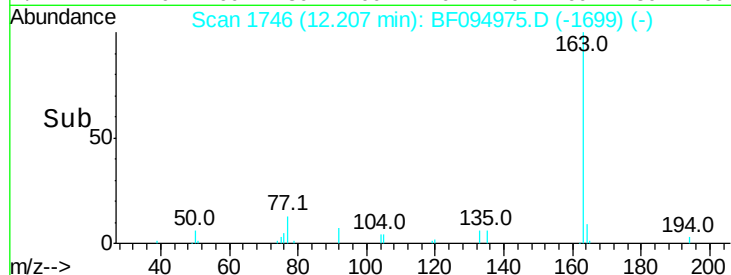
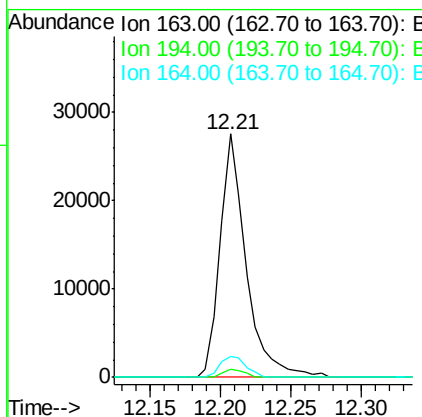
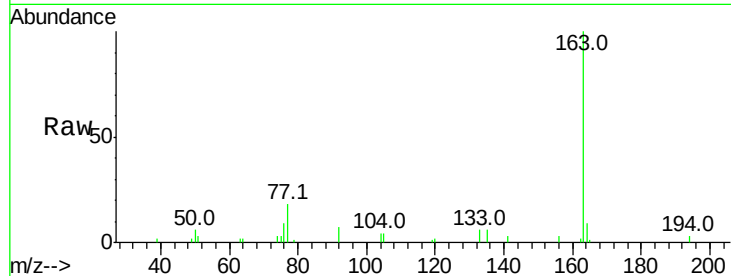
#49
Dimethylphthalate
Concen: 2.57 ng
RT: 12.21 min Scan# 1746
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
SS-01

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.2	2.6	4.0	
164	8.8	8.4	12.6	

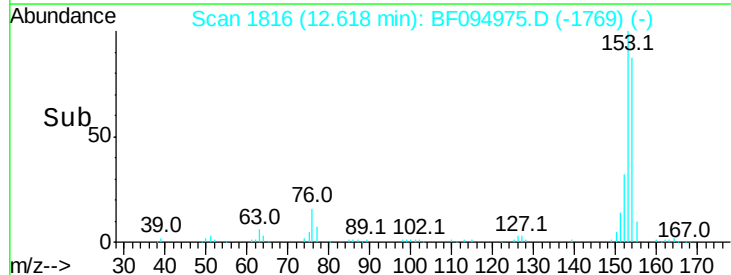
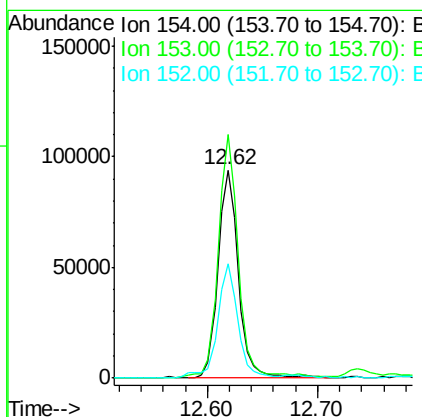
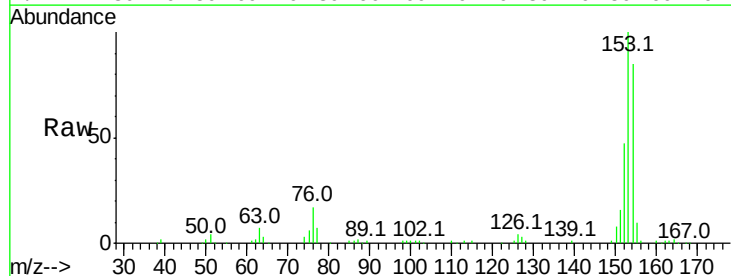
Manual Integrations
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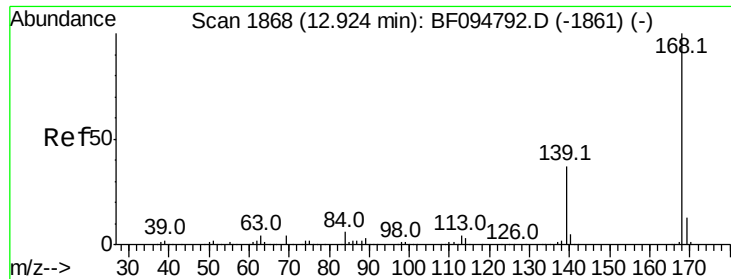
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#51
Acenaphthene
Concen: 11.28 ng
RT: 12.62 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	117.0	90.5	135.7	
152	54.8	43.6	65.4	





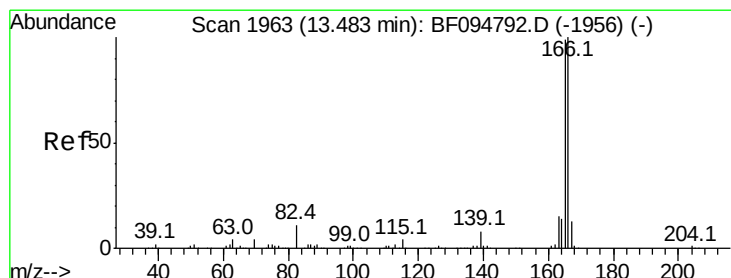
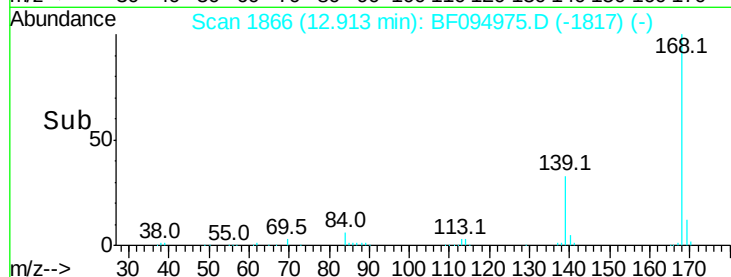
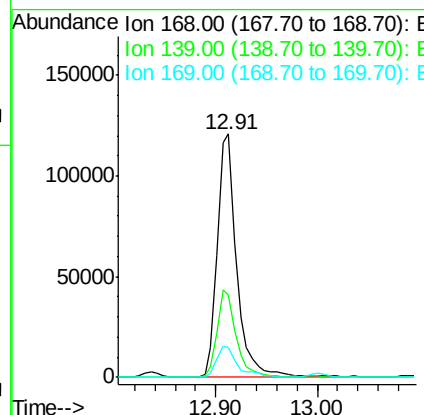
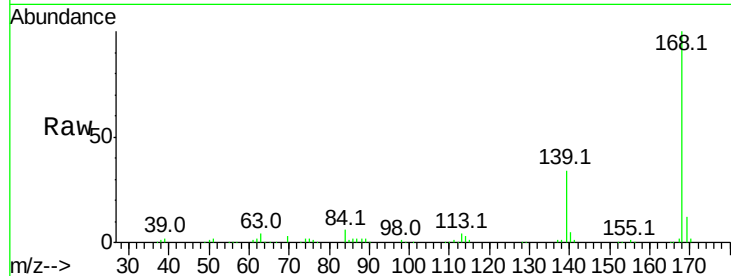
#54
Dibenzenofuran
Concen: 10.89 ng
RT: 12.91 min Scan# 1866
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
SS-01

Tot Ion	Ratio	Lower	Upper
168	100		
139	33.6	30.6	45.8
169	12.1	10.8	16.2

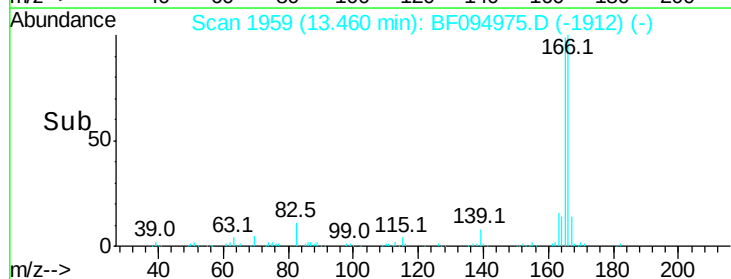
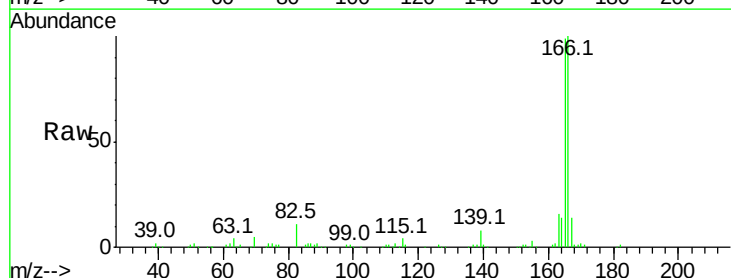
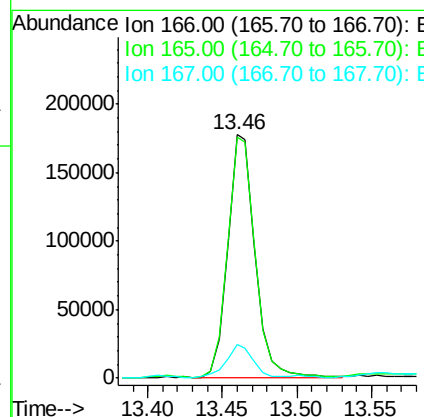
Manual Integrations
APPROVED

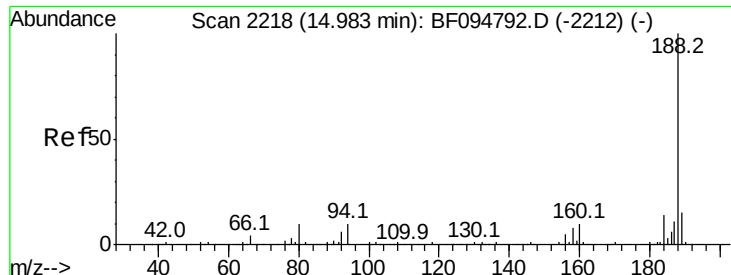
mohammad
5/8/2017 5:51:42 PM



#57
Fluorene
Concen: 17.74 ng
RT: 13.46 min Scan# 1959
Delta R.T. -0.02 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.2	78.8	118.2
167	13.9	10.6	16.0





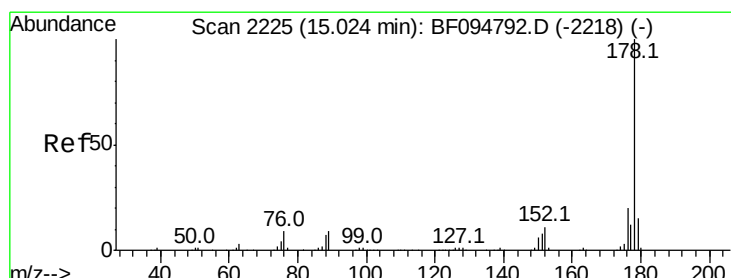
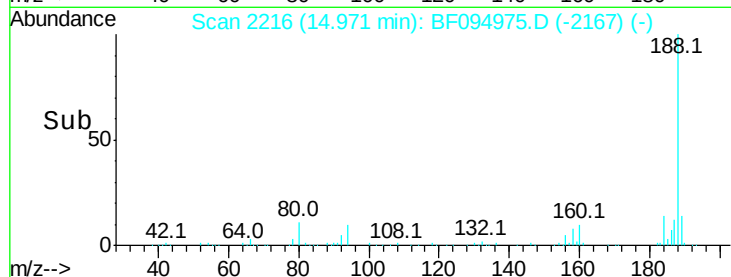
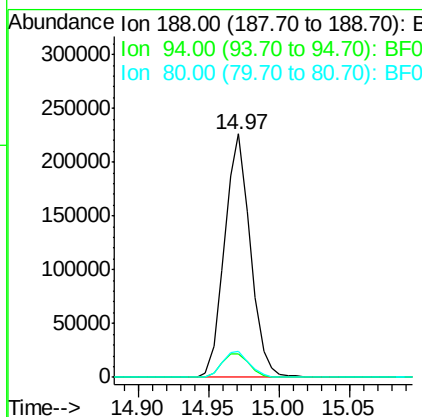
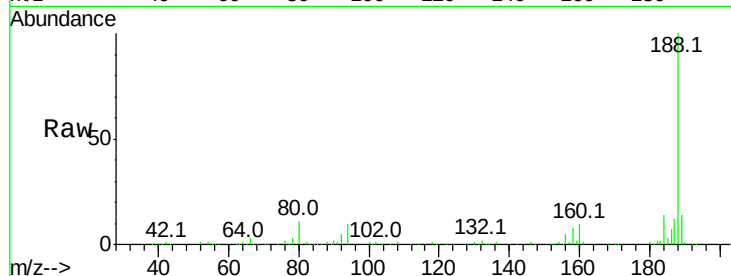
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.97 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampled :
SS-01

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.6	9.4	14.2
80	10.9	10.2	15.2

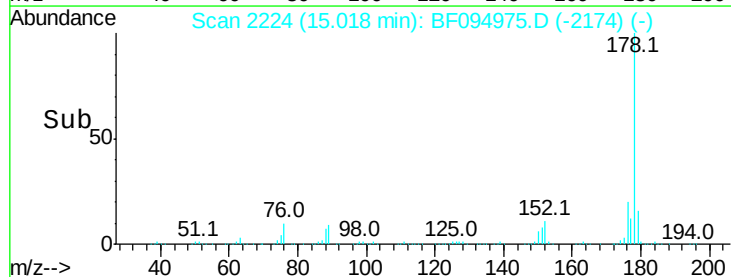
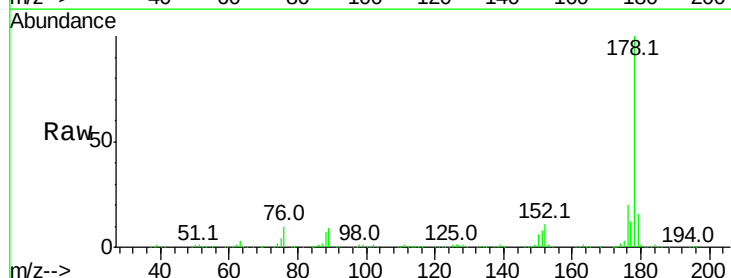
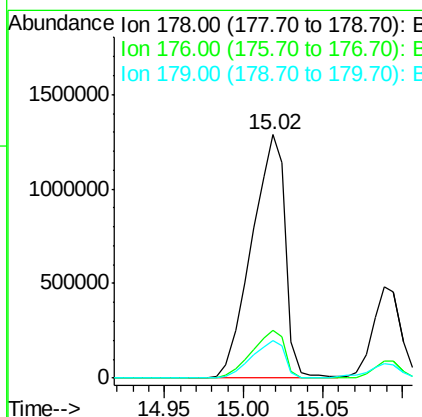
Manual Integrations
APPROVED

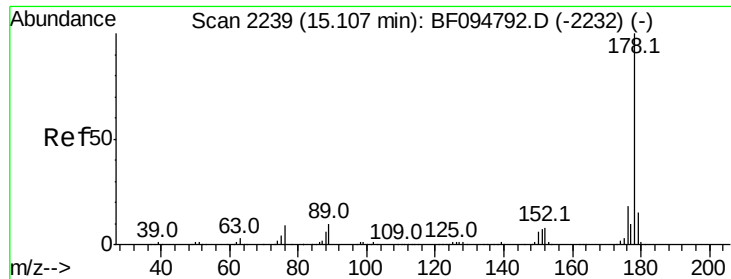
mohammad
5/8/2017 5:51:42 PM



#70
Phenanthrene
Concen: 115.08 ng
RT: 15.02 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	16.2	24.4
179	15.5	12.6	19.0





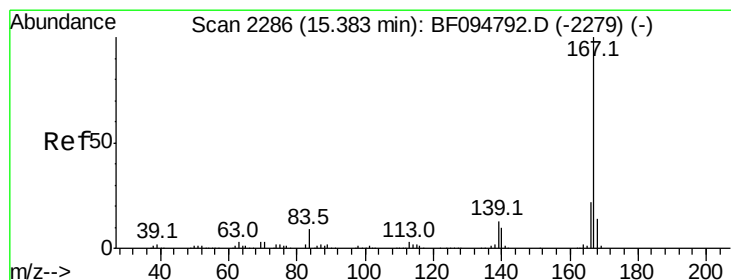
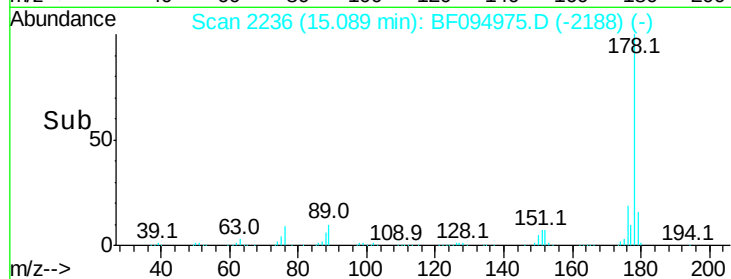
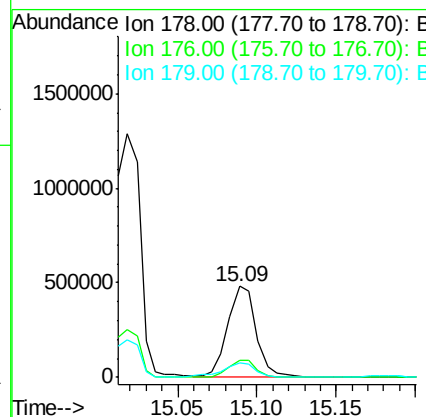
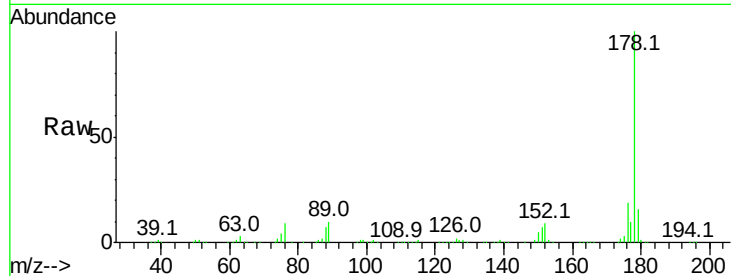
#71
 Anthracene
 Concen: 35.34 ng
 RT: 15.09 min Scan# 2236
 Delta R.T. -0.02 min
 Lab File: BF094975.D
 Acq: 8 May 2017 8:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.9	12.7	19.1

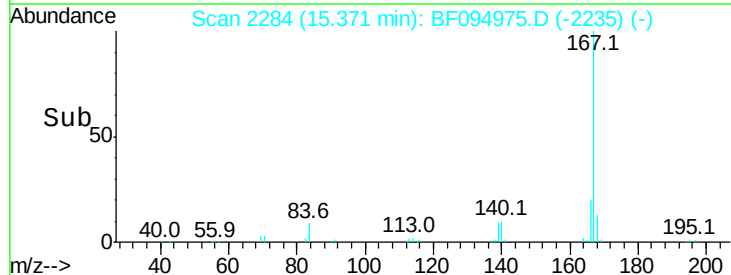
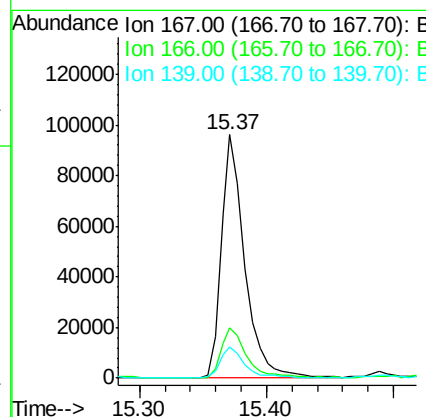
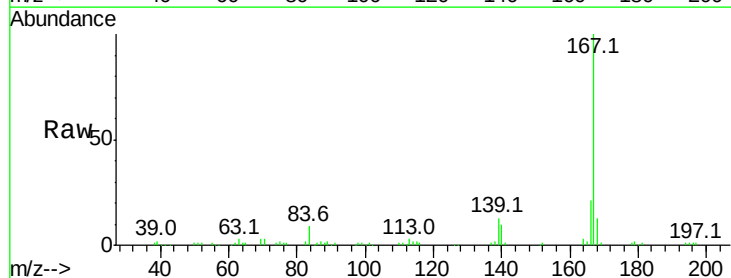
Manual Integrations
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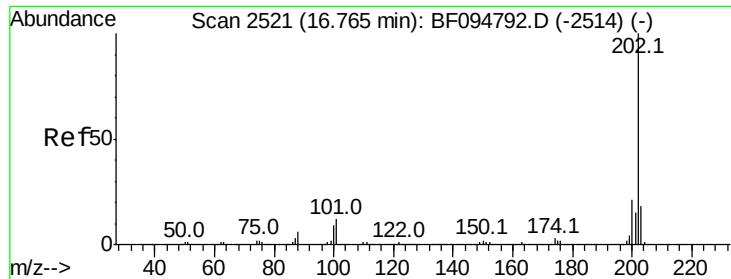
mohammad
 5/8/2017 5:51:42 PM



#72
 Carbazole
 Concen: 8.10 ng
 RT: 15.37 min Scan# 2284
 Delta R.T. -0.01 min
 Lab File: BF094975.D
 Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.7	18.1	27.1
139	12.9	11.7	17.5





#74

Fluoranthene

Concen: 123.38 ng

RT: 16.77 min Scan# 2521

Delta R.T. 0.00 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Instrument :

BNA_F

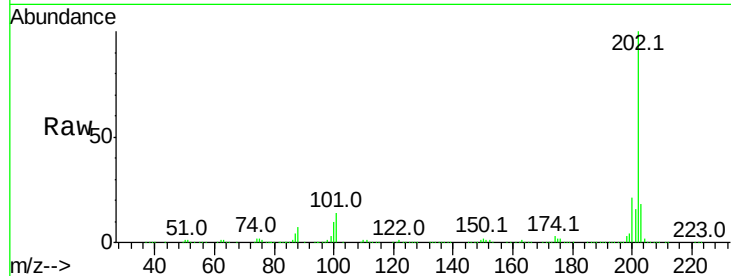
ClientSampleId :

SS-01

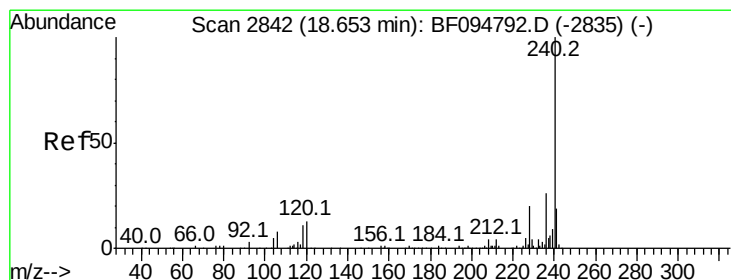
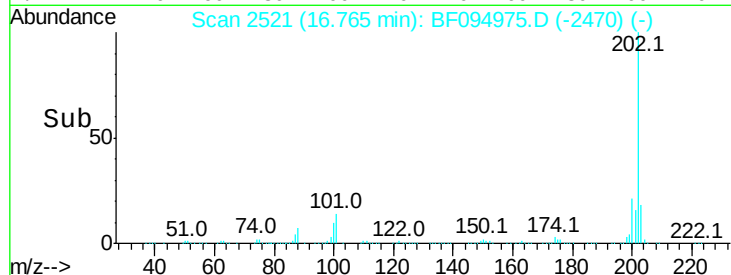
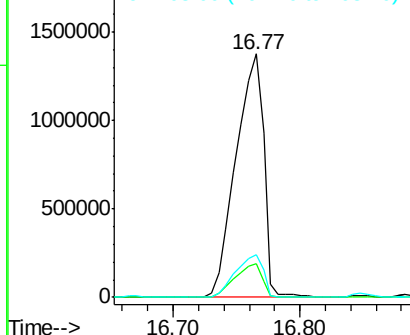
Tot Ion:	202	Resp:	2091507
Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	33.2
203	17.6	0.0	38.1

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

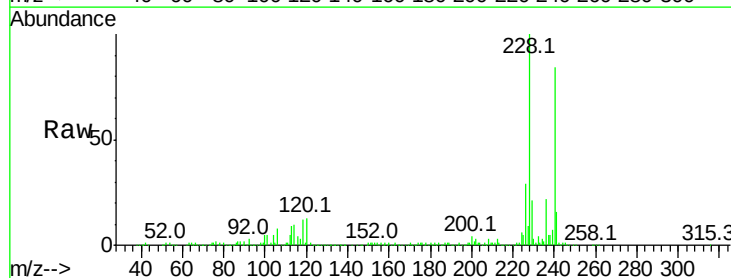
RT: 18.64 min Scan# 2840

Delta R.T. -0.01 min

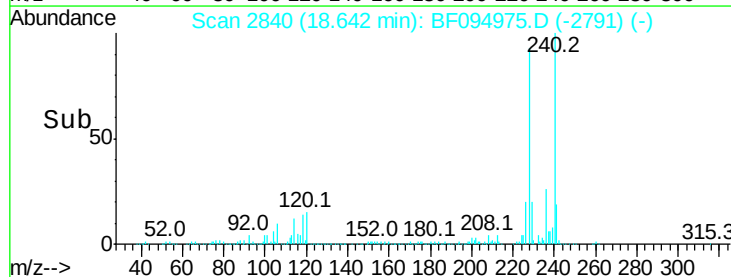
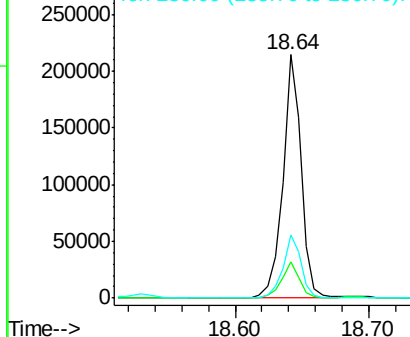
Lab File: BF094975.D

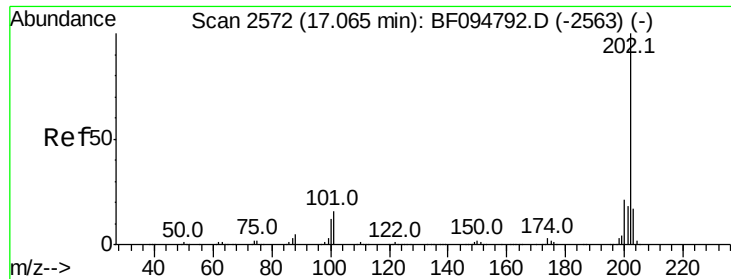
Acq: 8 May 2017 8:22

Tgt Ion:	240	Resp:	207420
Ion	Ratio	Lower	Upper
240	100		
120	15.0	5.8	8.8#
236	26.1	20.5	30.7



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 106.98 ng

RT: 17.07 min Scan# 2572

Delta R.T. 0.00 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Instrument :

BNA_F

ClientSampleId :

SS-01

Tot Ion:202 Resp: 1659525

Ion Ratio Lower Upper

202 100

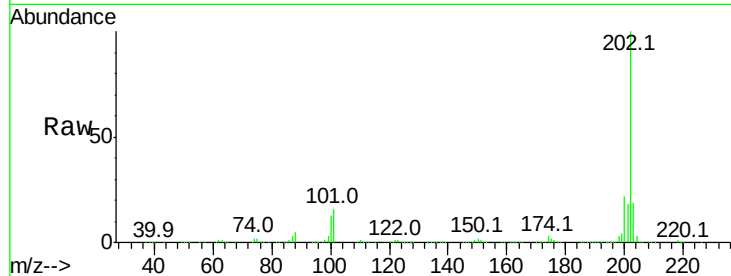
200 22.2 17.6 26.4

203 18.9 14.4 21.6

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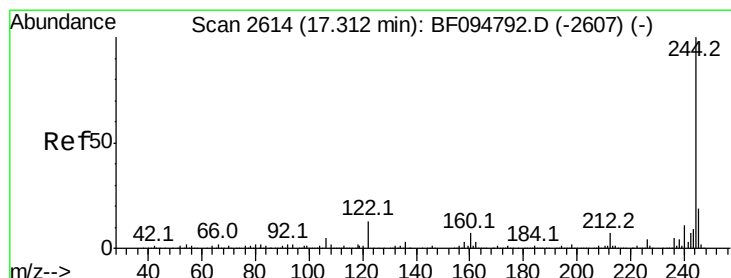
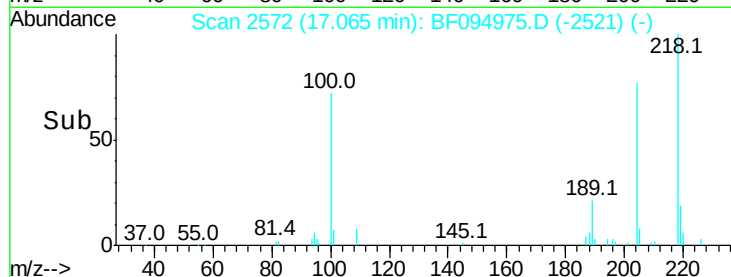
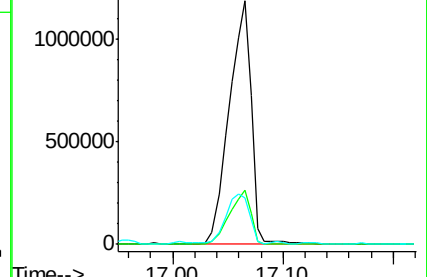
5/8/2017 5:51:42 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 18.92 ng

RT: 17.29 min Scan# 2610

Delta R.T. -0.02 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

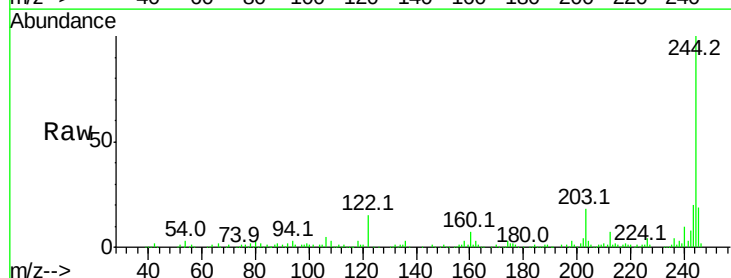
Tgt Ion:244 Resp: 178144

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

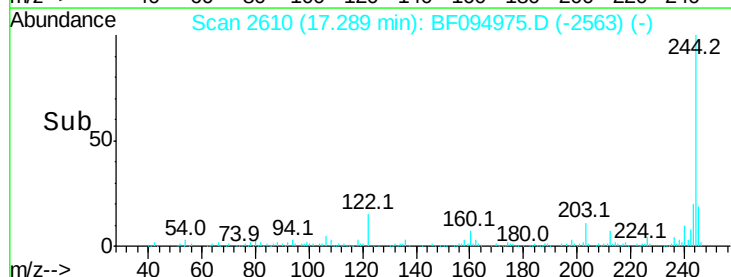
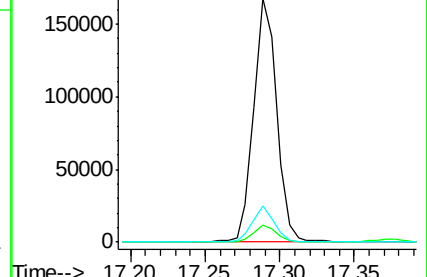
122 14.8 10.3 15.5

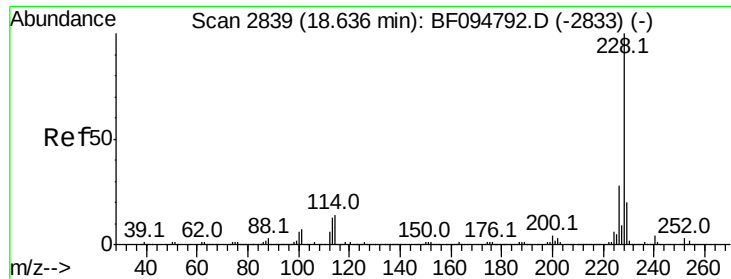


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





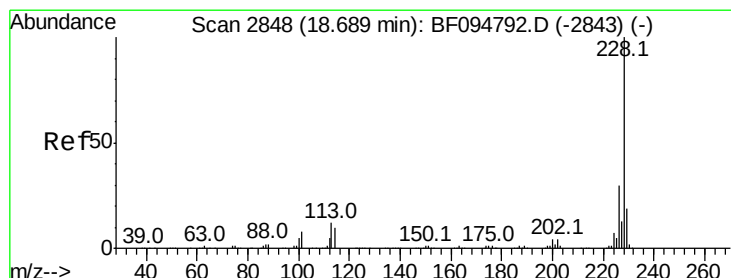
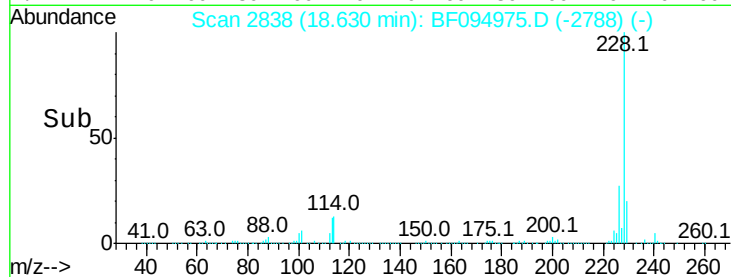
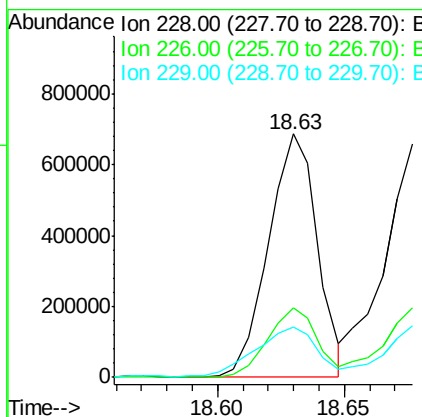
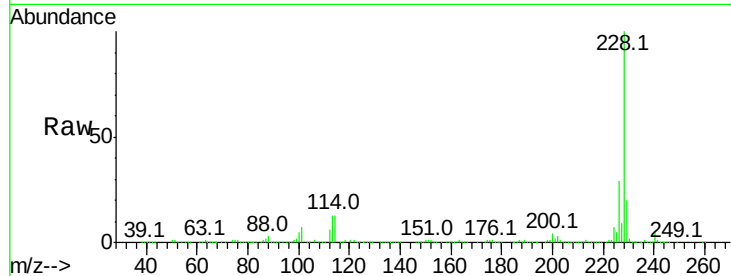
#80
Benzo(a)anthracene
Concen: 76.18 ng
RT: 18.63 min Scan# 2838
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampled :
SS-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.5	16.3	24.5

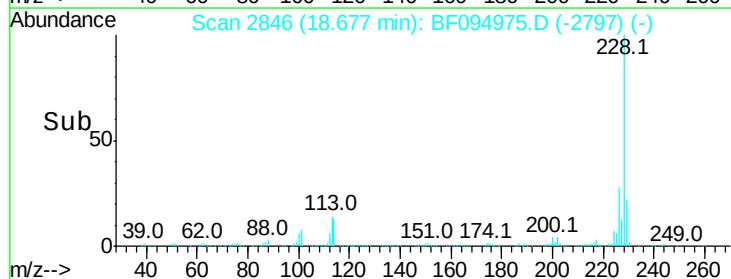
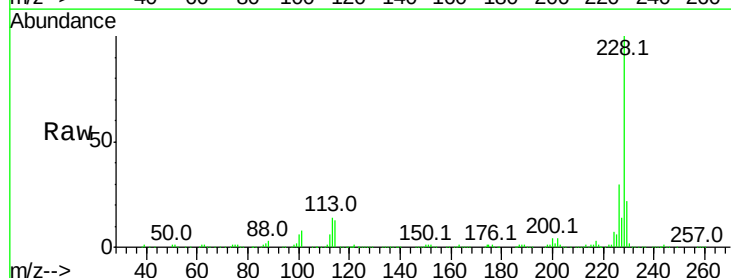
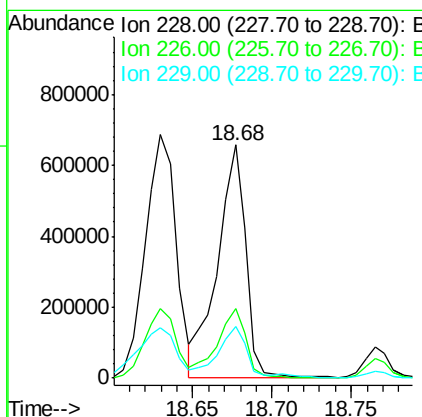
Manual Integrations
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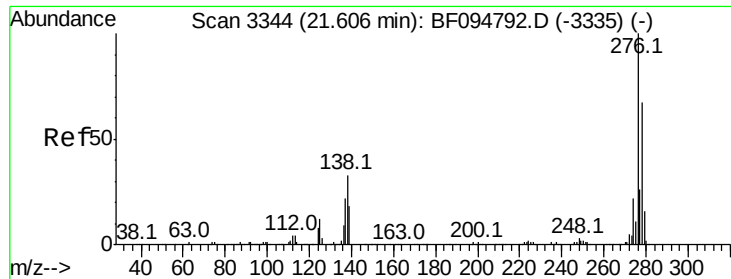
mohammad
5/8/2017 5:51:42 PM



#82
Chrysene
Concen: 69.09 ng
RT: 18.68 min Scan# 2846
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.9	37.3
229	22.4	15.8	23.6





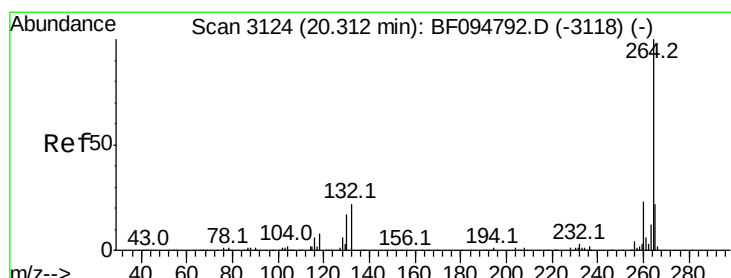
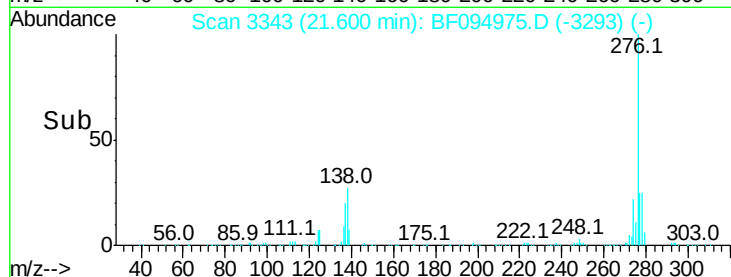
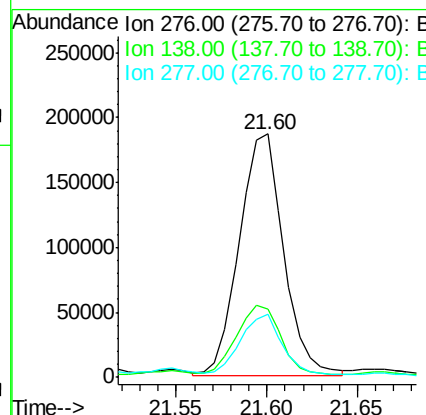
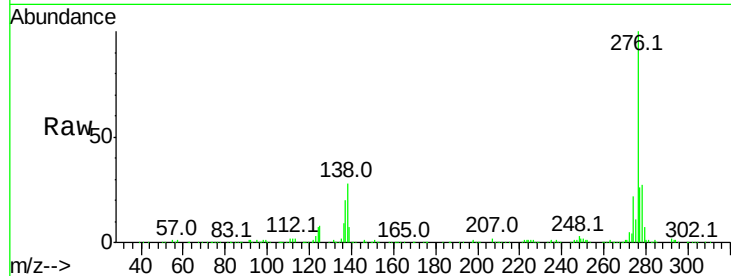
#85
Indeno(1,2,3-cd)pyrene
Concen: 33.41 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampled :
SS-01

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.1	27.8	41.6
277	23.5	20.2	30.4

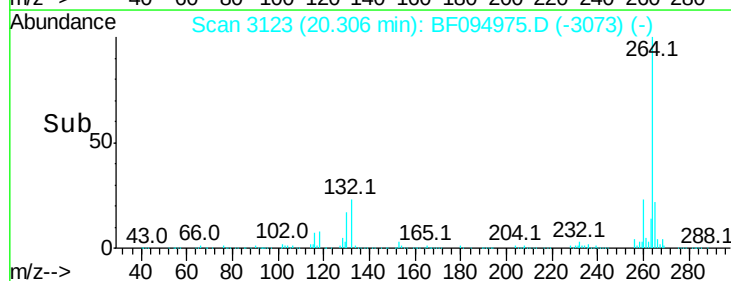
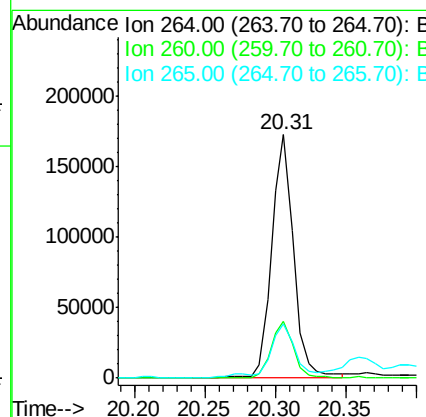
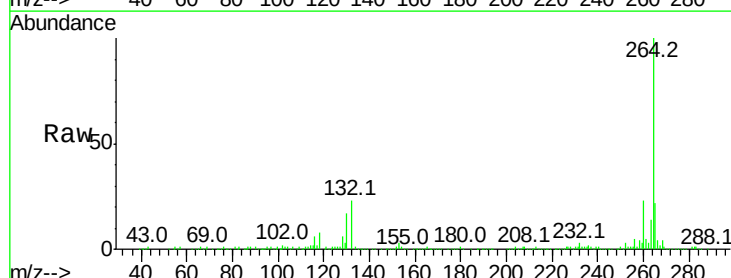
Manual Integrations
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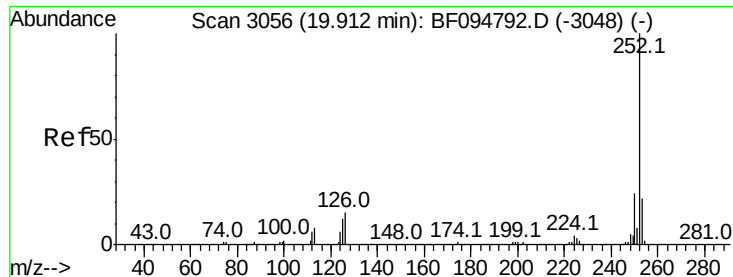
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 20.31 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	22.3	17.2	25.8





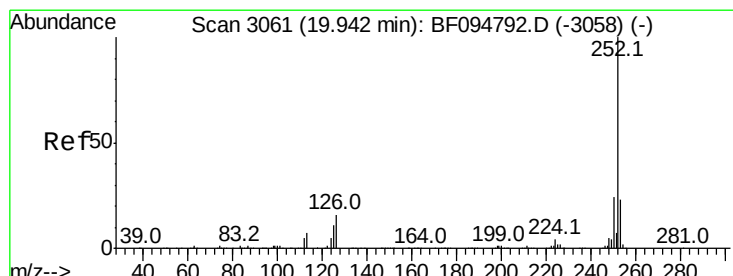
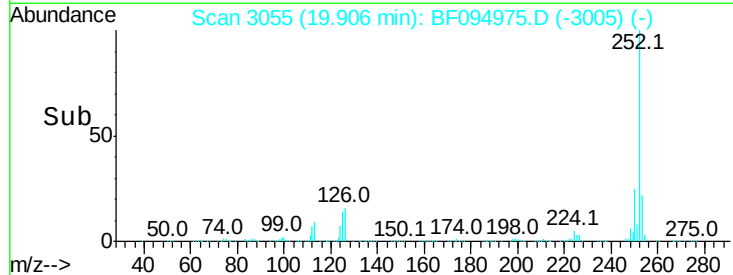
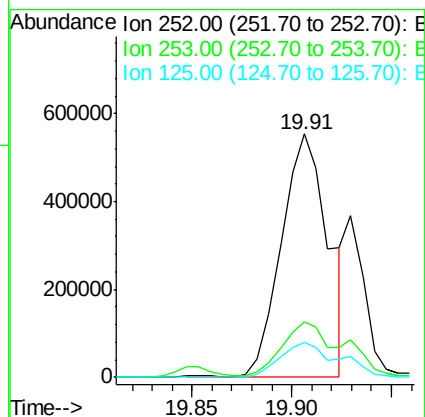
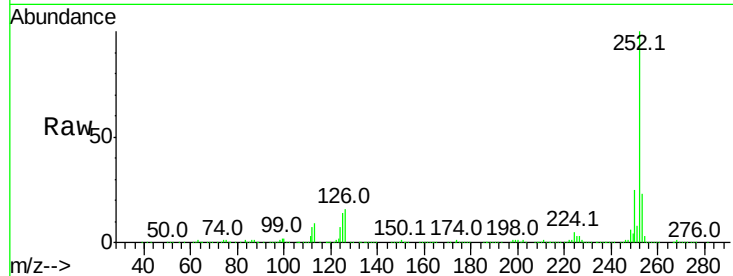
#87
Benzo(b)fluoranthene
Concen: 78.14 ng m
RT: 19.91 min Scan# 3055
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Instrument :
BNA_F
ClientSampled :
SS-01

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.7	18.1	27.1
125	14.5	9.8	14.8

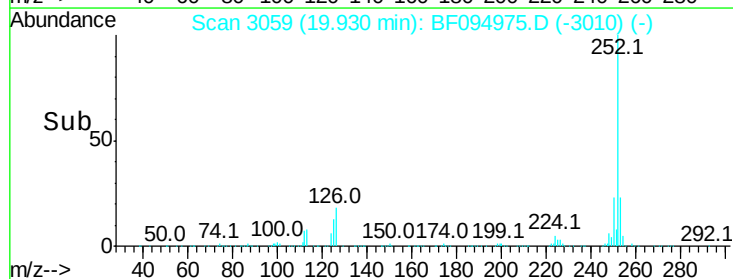
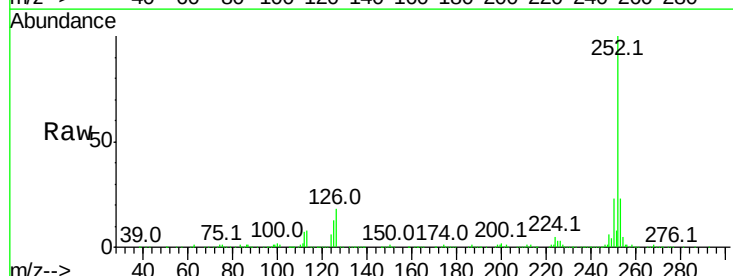
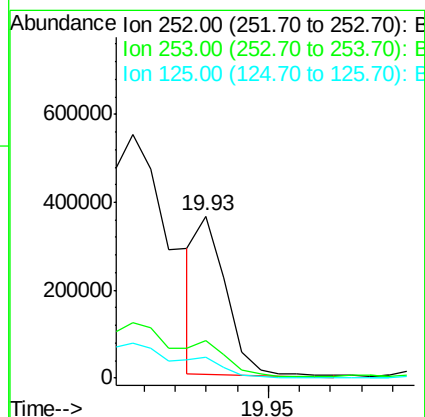
Manual Integrations
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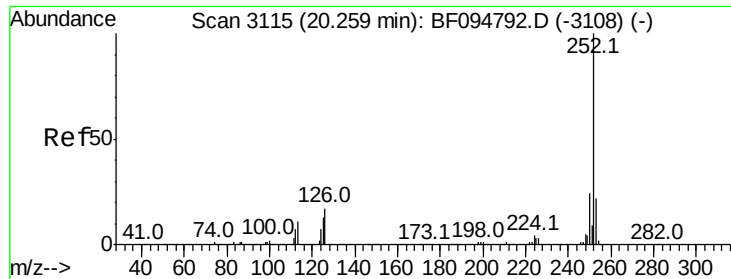
mohammad
5/8/2017 5:51:42 PM



#88
Benzo(k)fluoranthene
Concen: 20.57 ng m
RT: 19.93 min Scan# 3059
Delta R.T. -0.01 min
Lab File: BF094975.D
Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.8	18.4	27.6
125	12.6	13.1	19.7#





#89

Benzo(a)pyrene

Concen: 55.46 ng

RT: 20.25 min Scan# 3114

Delta R.T. -0.01 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Instrument :

BNA_F

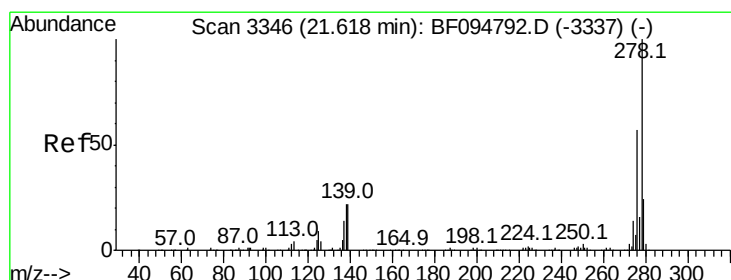
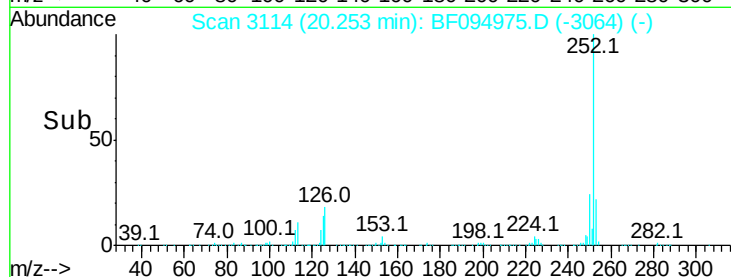
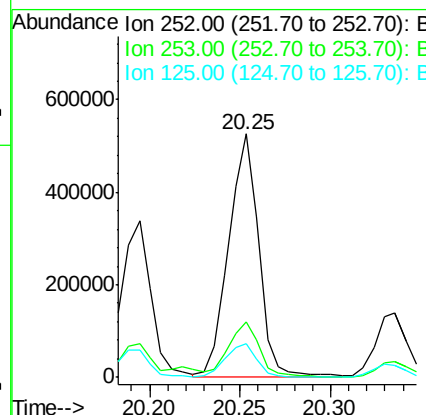
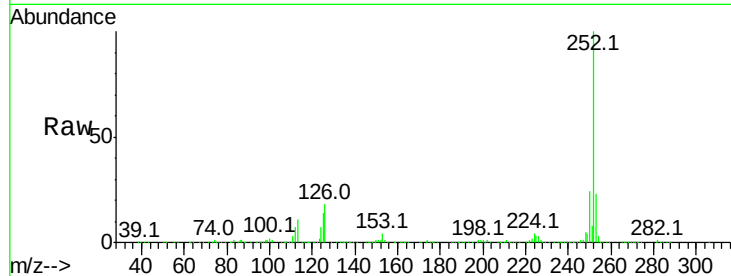
ClientSampled :

SS-01

Tot Ion	Ratio	Resp	Lower	Upper
252	100	599599		
253	22.8	17.5	26.3	
125	13.9	11.0	16.4	

Manual Integrations
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5/8/2017 5:51:42 PM



#90

Dibenzo(a,h)anthracene

Concen: 9.91 ng m

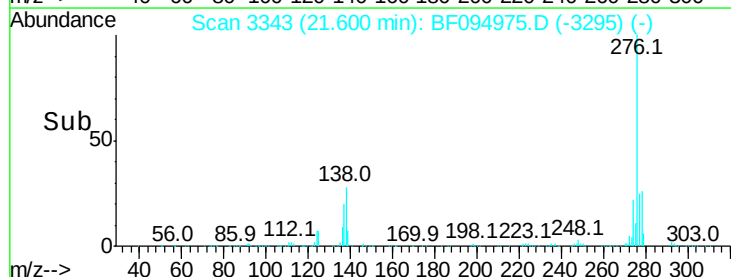
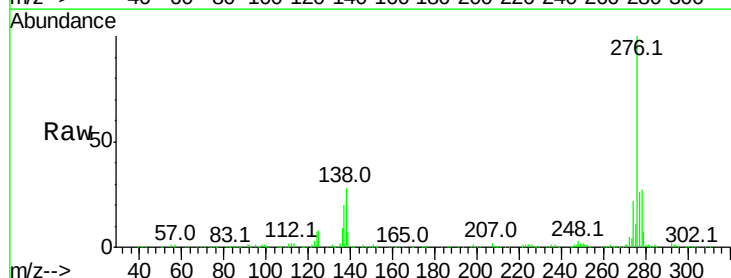
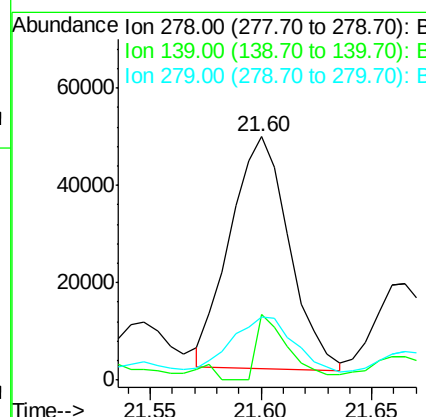
RT: 21.60 min Scan# 3343

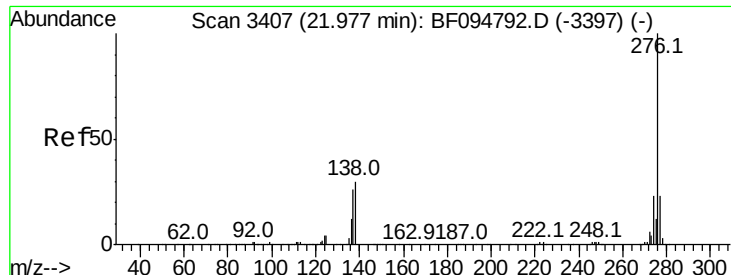
Delta R.T. -0.02 min

Lab File: BF094975.D

Acq: 8 May 2017 8:22

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	88475		
139	26.7	16.6	24.8#	
279	25.8	19.3	28.9	





#91
 Benzo(a,h,i)perylene
 Concen: 29.73 ng
 RT: 21.97 min Scan# 3406
 Delta R.T. -0.01 min
 Lab File: BF094975.D
 Acq: 8 May 2017 8:22

Instrument :
 BNA_F
 ClientSampleId :
 SS-01

Tot Ion:	276	Resp:	260446
Ion Ratio	Lower	Upper	
276	100		
277	25.2	18.6	28.0
138	31.0	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 5/8/2017 5:51:42 PM

