

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
 Data File : BF095127.D
 Acq On : 15 May 2017 16:00
 Operator : SJ/MA
 Sample : I3037-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB432A

Manual Integrations
 APPROVED

mohammad
 5/17/2017 2:20:01 PM

Quant Time: May 16 12:06:11 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	7.78	152	89905	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	331424	20.00	ng	0.05
38) Acenaphthene-d10	12.64	164	157593	20.00	ng	0.06
63) Phenanthrene-d10	15.05	188	255074	20.00	ng	0.06
75) Chrysene-d12	18.71	240	161684	20.00	ng	0.05
86) Perylene-d12	20.38	264	164058	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.75	112	531096	98.49	ng	0.07
7) Phenol-d6	7.31	99	645418	99.75	ng	0.04
23) Nitrobenzene-d5	8.68	82	332986	63.36	ng	0.04
41) 2,4,6-Tribromophenol	13.94	330	126758	98.21	ng	0.06
44) 2-Fluorobiphenyl	11.58	172	679299	62.04	ng	0.05
78) Terphenyl-d14	17.35	244	538115	73.31	ng	0.04
Target Compounds						Qvalue
10) Phenol	7.34	94	14381	2.11	ng	# 56
37) 2-Methylnaphthalene	10.97	142	59715m	5.46	ng	
49) Dimethylphthalate	12.27	163	87223	6.74	ng	# 96
51) Acenaphthene	12.70	154	57582	5.74	ng	95
57) Fluorene	13.54	166	127021	10.53	ng	# 91
65) n-Nitrosodiphenylamine	13.76	169	161845	17.48	ng	# 51
70) Phenanthrene	15.08	178	345150	23.55	ng	96
71) Anthracene	15.17	178	44927m	3.00	ng	
74) Fluoranthene	16.82	202	69993	4.66	ng	96
77) Pyrene	17.12	202	185425	15.33	ng	97
80) Benzo(a)anthracene	18.69	228	20072	2.13	ng	# 79
82) Chrysene	18.74	228	24208	2.66	ng	# 85
85) Indeno(1,2,3-cd)pyrene	21.75	276	23588m	3.19	ng	
87) Benzo(b)fluoranthene	19.99	252	24815m	2.45	ng	
89) Benzo(a)pyrene	20.33	252	33863	3.62	ng	# 82
91) Benzo(g,h,i)perylene	22.12	276	50466	6.66	ng	97

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

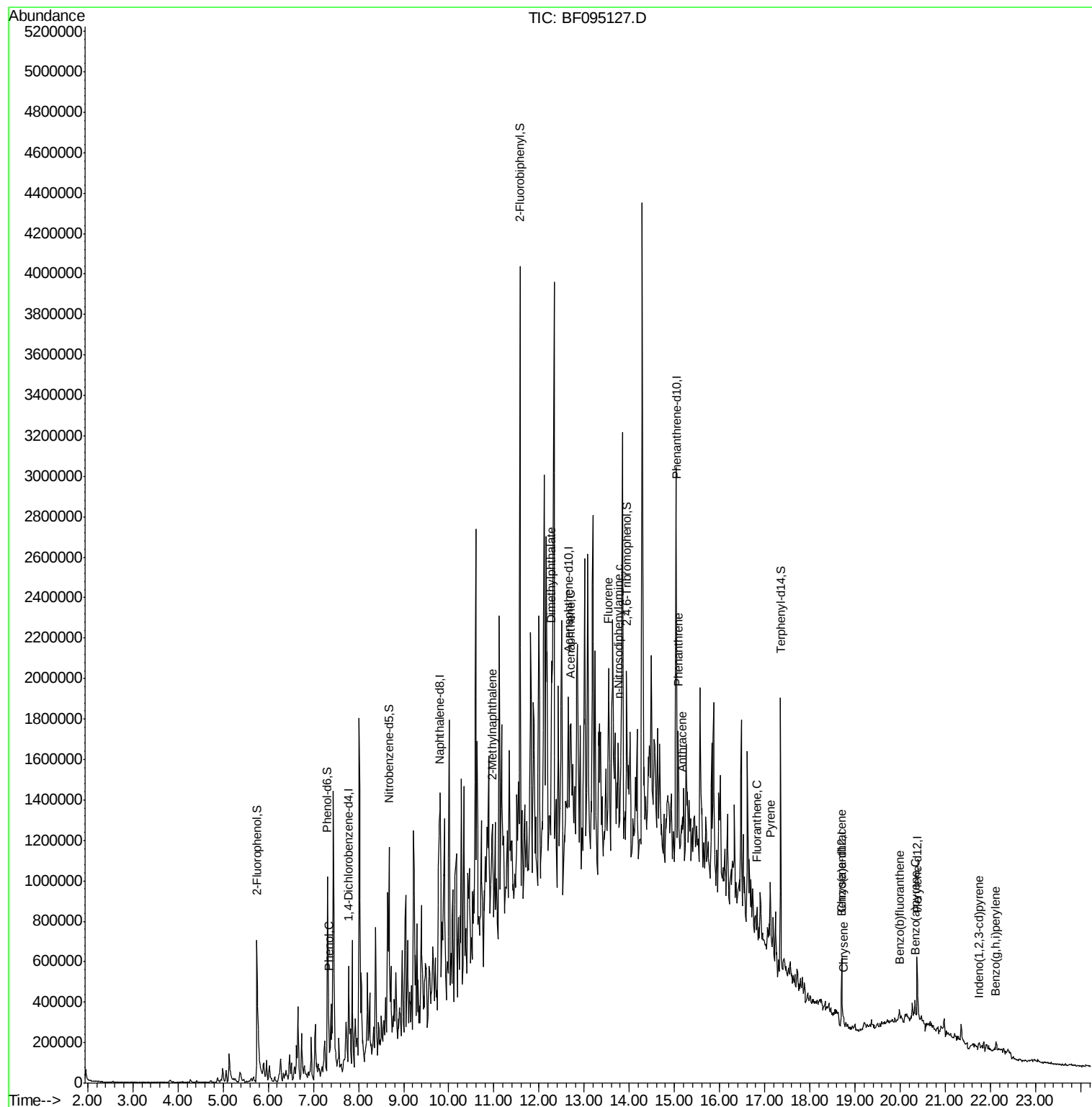
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
Data File : BF095127.D
Acq On : 15 May 2017 16:00
Operator : SJ/MA
Sample : I3037-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

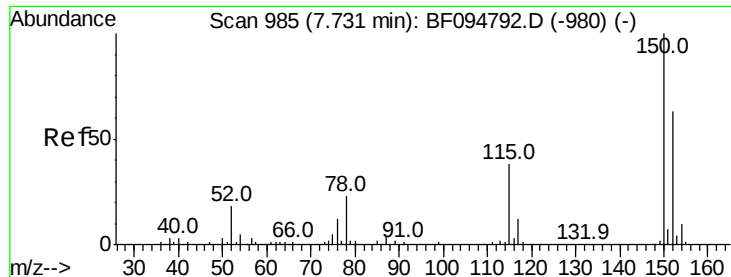
Instrument :
BNA_F
ClientSampleId :
HY-SB432A

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM

Quant Time: May 16 12:06:11 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.78 min Scan# 994

Delta R.T. 0.05 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

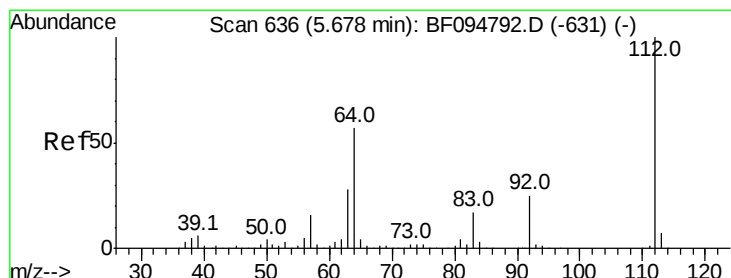
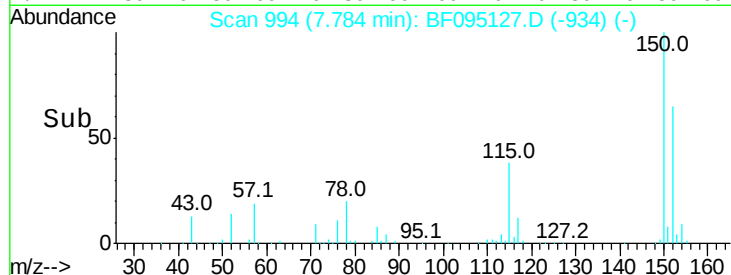
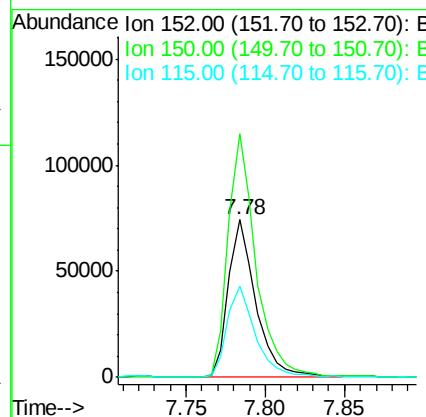
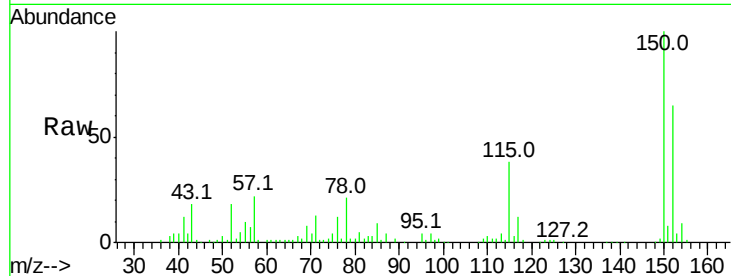
ClientSampleId :

HY-SB432A

Tot Ion:	152	Resp:	89905
Ion Ratio	Lower	Upper	
152	100		
150	154.4	126.2	189.2
115	58.0	52.2	78.2

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#5

2-Fluorophenol

Concen: 98.49 ng

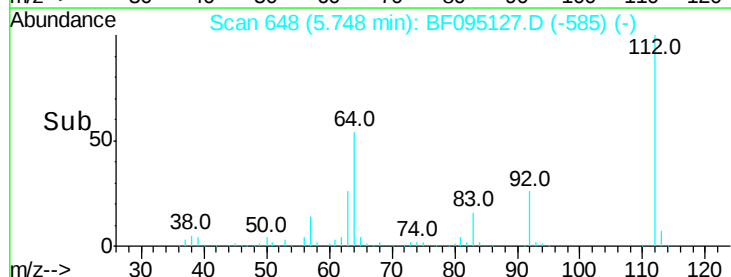
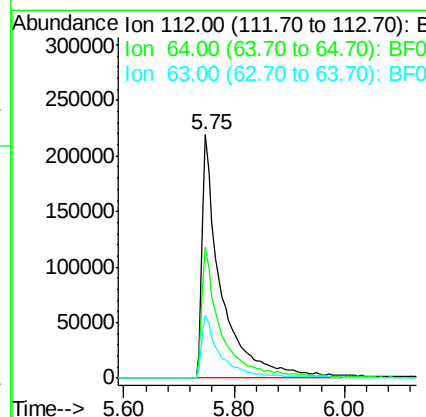
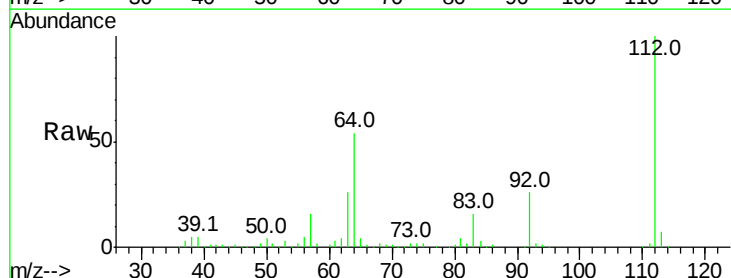
RT: 5.75 min Scan# 648

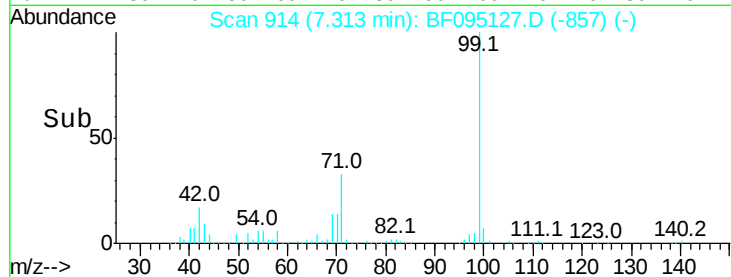
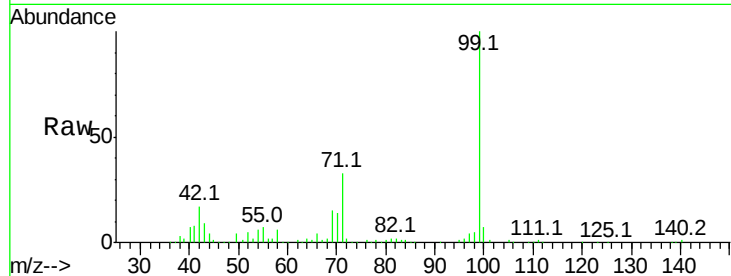
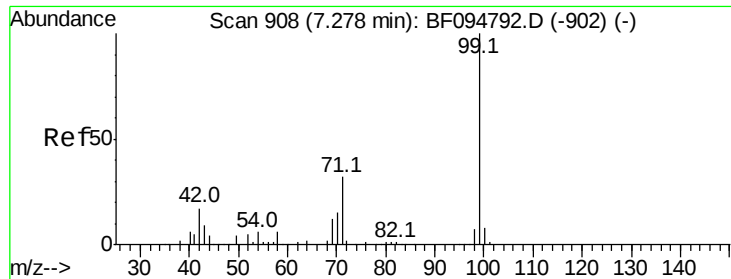
Delta R.T. 0.07 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion:	112	Resp:	531096
Ion Ratio	Lower	Upper	
112	100		
64	54.0	46.0	69.0
63	26.1	23.4	35.0





#7

Phenol-d6

Concen: 99.75 ng

RT: 7.31 min Scan# 914

Delta R.T. 0.04 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tot Ion:	99	Resp:	645418
Ion	Ratio	Lower	Upper
99	100		
42	17.0	13.5	20.3
71	32.9	24.5	36.7

Instrument :

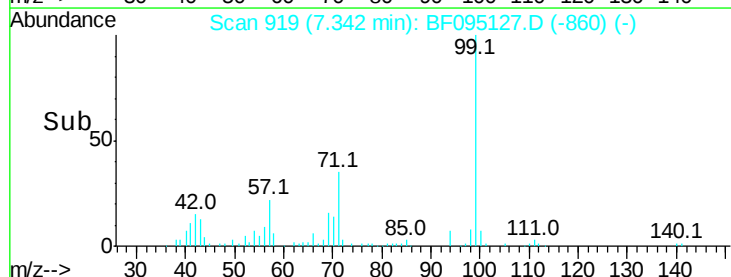
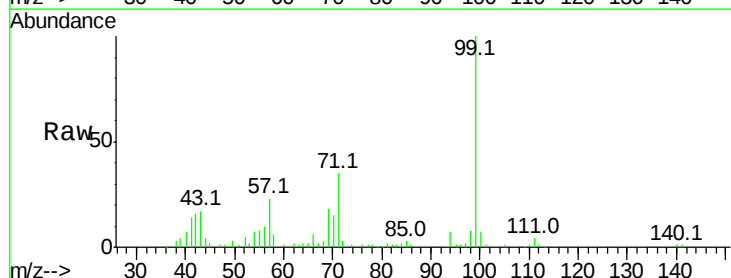
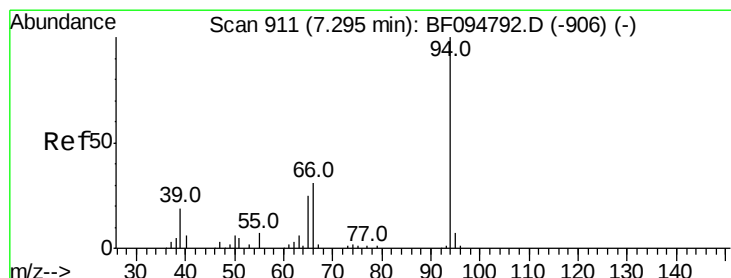
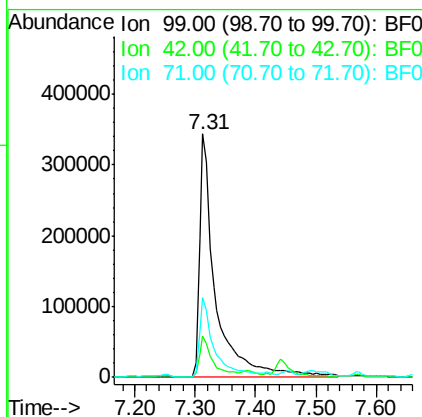
BNA_F

ClientSampleId :

HY-SB432A

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#10

Phenol

Concen: 2.11 ng

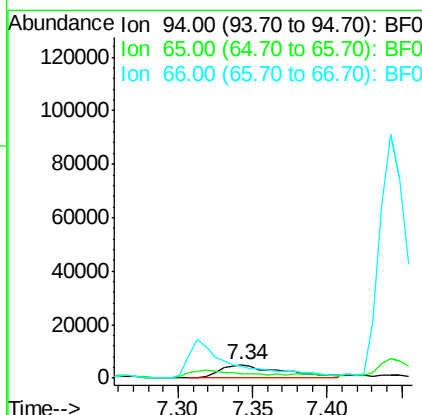
RT: 7.34 min Scan# 919

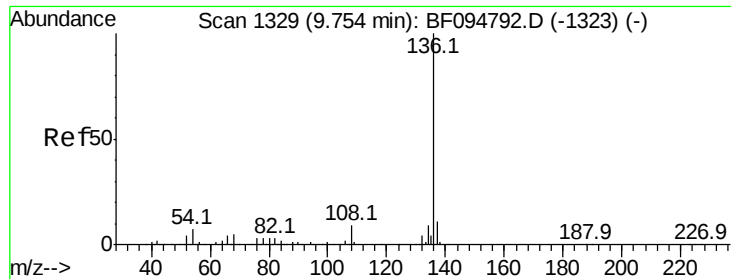
Delta R.T. 0.05 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion:	94	Resp:	14381
Ion	Ratio	Lower	Upper
94	100		
65	32.8	9.9	49.9
66	88.2	23.1	63.1#





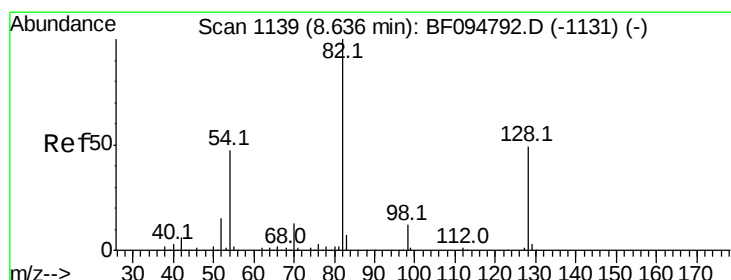
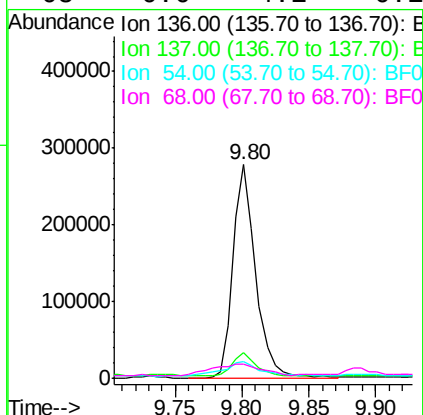
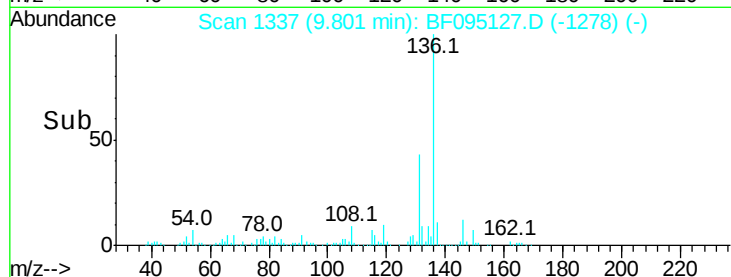
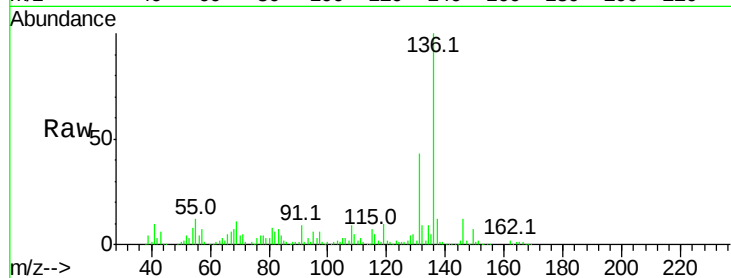
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.80 min Scan# 1337
Delta R.T. 0.05 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Instrument :
BNA_F
ClientSampleId :
HY-SB432A

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	12.1	8.5	12.7	
54	7.8	4.9	7.3	
68	6.6	4.1	6.1	

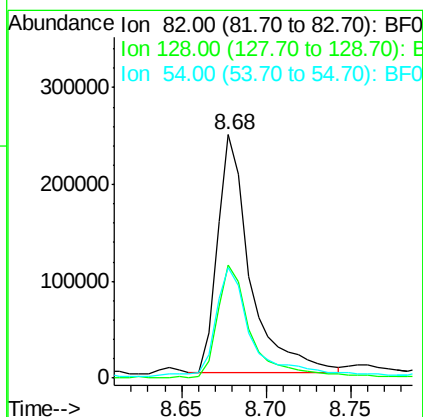
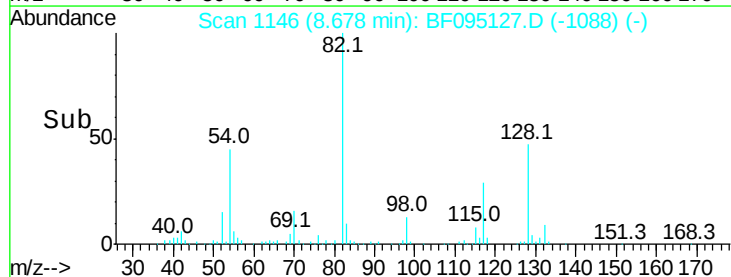
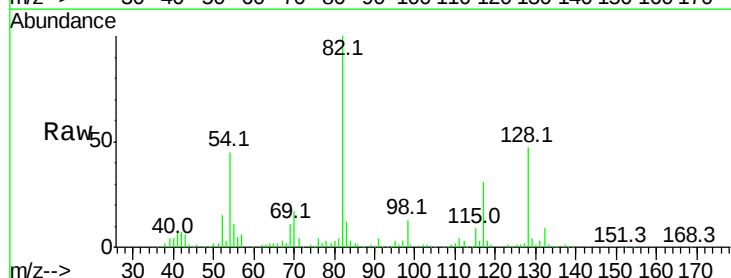
Manual Integrations
APPROVED

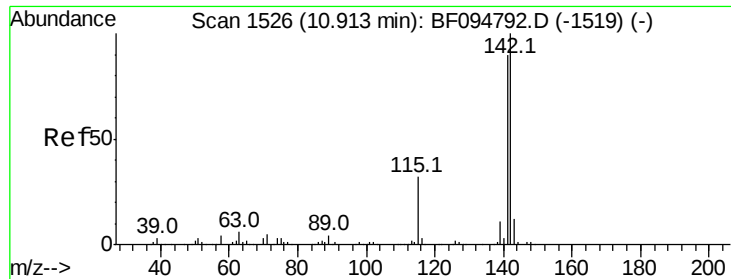
mohammad
5/17/2017 2:20:01 PM



#23
Nitrobenzene-d5
Concen: 63.36 ng
RT: 8.68 min Scan# 1146
Delta R.T. 0.04 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.7	34.0	51.0	
54	45.2	42.2	63.2	





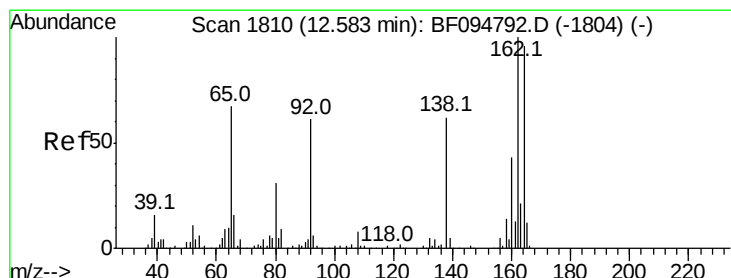
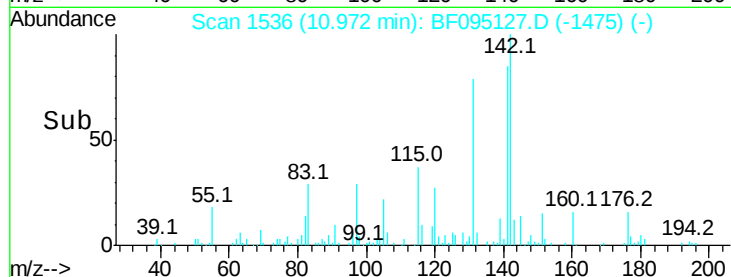
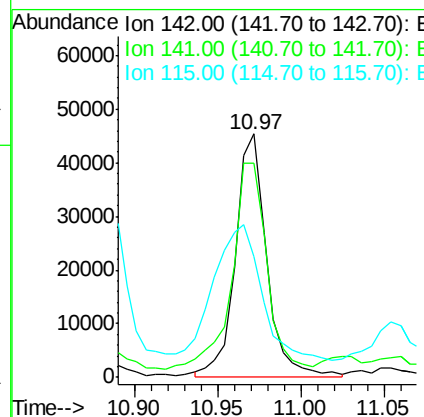
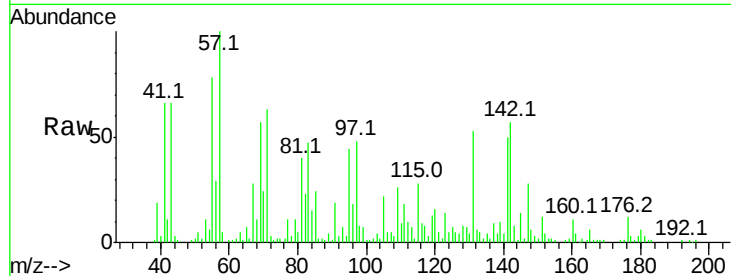
#37
2-Methylnaphthalene
Concen: 5.46 ng/ml
RT: 10.97 min Scan# 1536
Delta R.T. 0.06 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Instrument :
BNA_F
ClientSampleId :
HY-SB432A

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.3	106.9
115	49.5	27.1	40.7

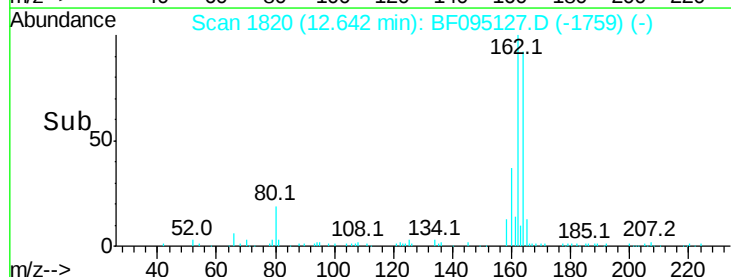
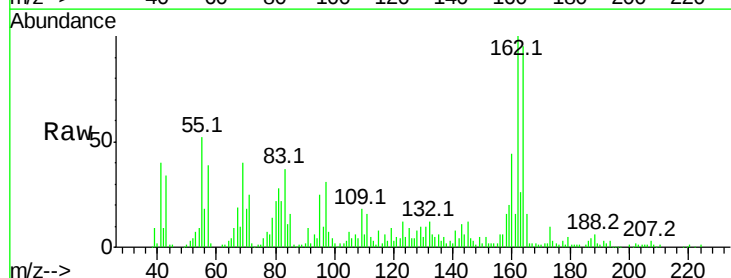
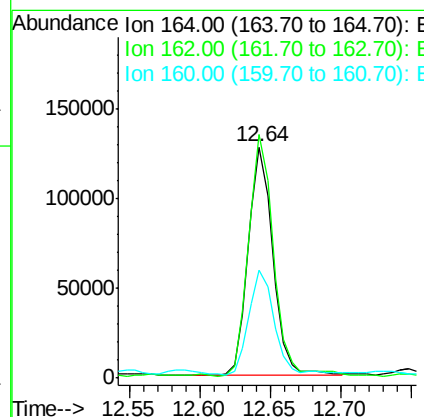
Manual Integrations
APPROVED

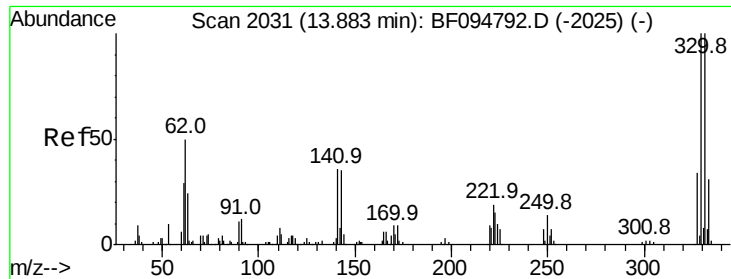
mohammad
5/17/2017 2:20:01 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.64 min Scan# 1820
Delta R.T. 0.06 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.6	123.8
160	46.8	36.2	54.2





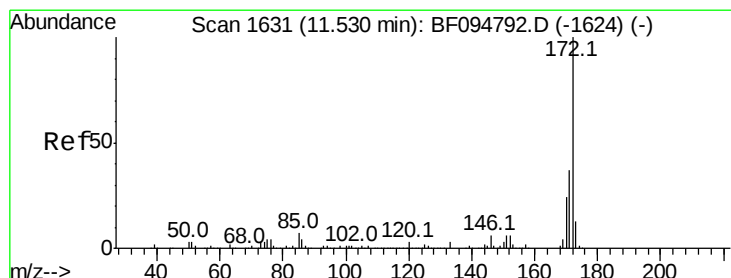
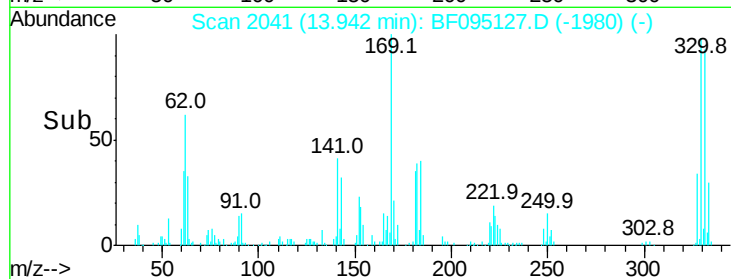
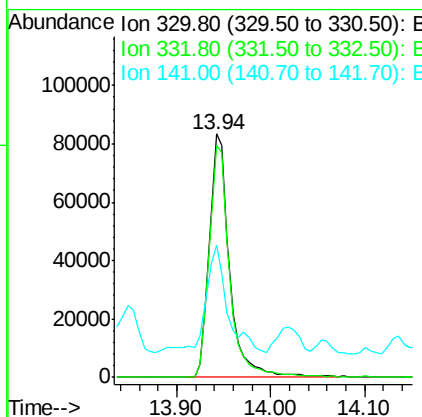
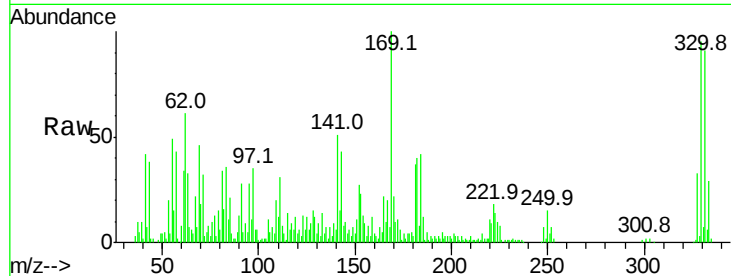
#41
 2,4,6-Tribromophenol
 Concen: 98.21 ng
 RT: 13.94 min Scan# 2041
 Delta R.T. 0.06 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB432A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	115.0
141	47.1	31.4	47.2

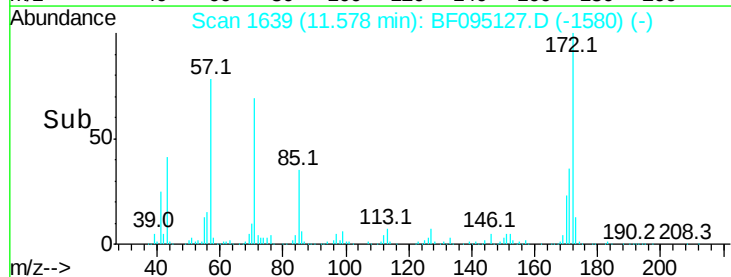
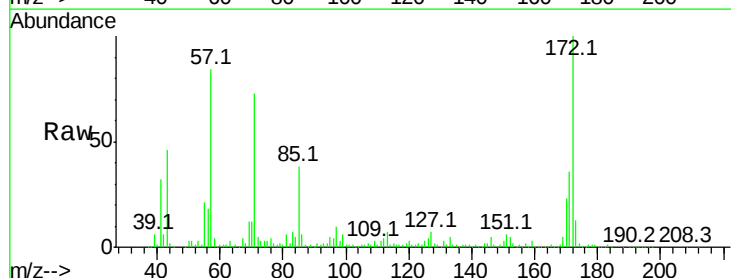
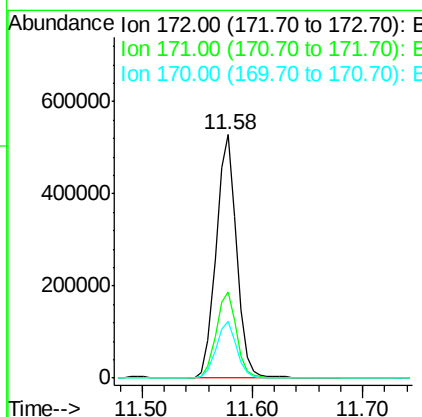
Manual Integrations
 APPROVED

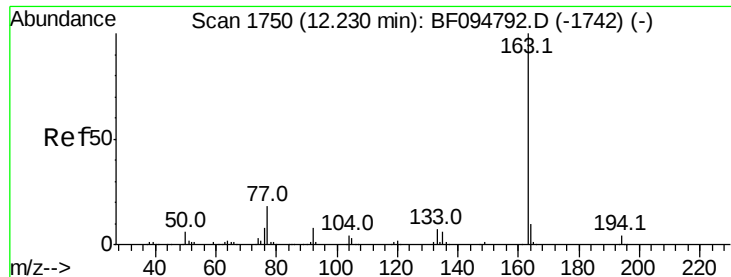
mohammad
 5/17/2017 2:20:01 PM



#44
 2-Fluorobiphenyl
 Concen: 62.04 ng
 RT: 11.58 min Scan# 1639
 Delta R.T. 0.05 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	23.3	19.8	29.8





#49

Dimethylphthalate

Concen: 6.74 ng

RT: 12.27 min Scan# 1757

Delta R.T. 0.04 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

ClientSampled :

HY-SB432A

Tot Ion:163 Resp: 87223

Ion Ratio Lower Upper

163 100

194 7.3 2.6 4.0#

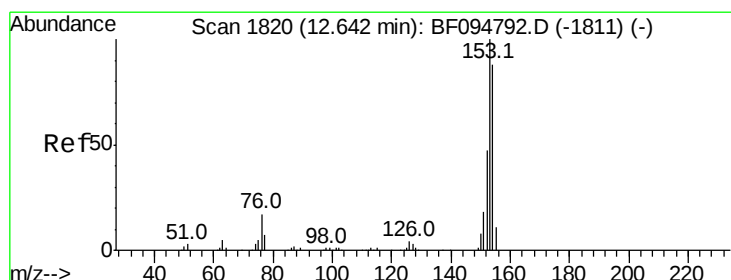
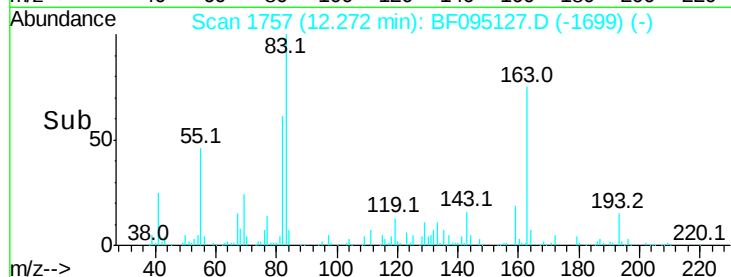
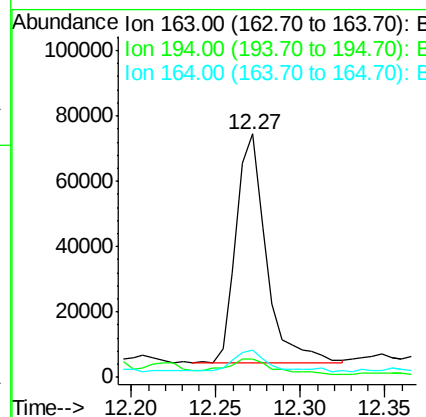
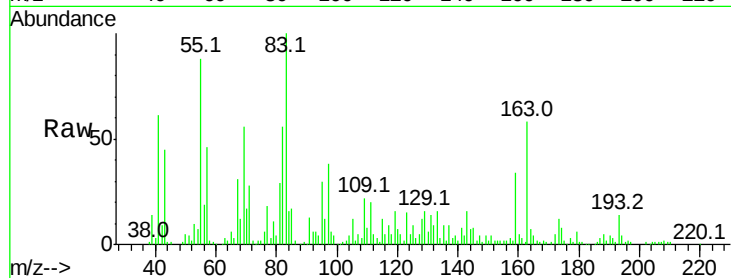
164 11.3 8.4 12.6

Manual Integrations

APPROVED

mohammad

5/17/2017 2:20:01 PM



#51

Acenaphthene

Concen: 5.74 ng

RT: 12.70 min Scan# 1829

Delta R.T. 0.05 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

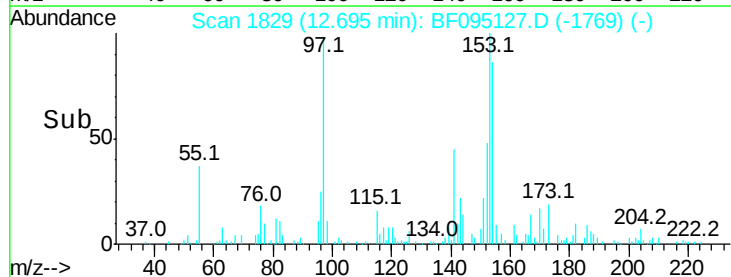
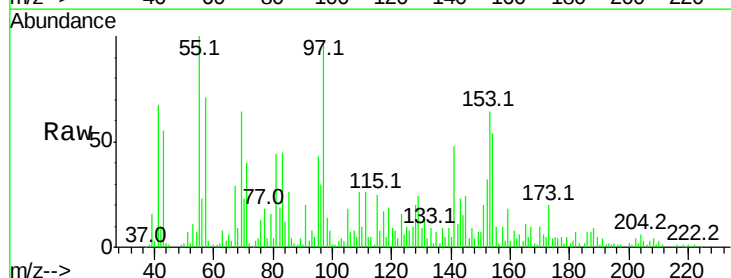
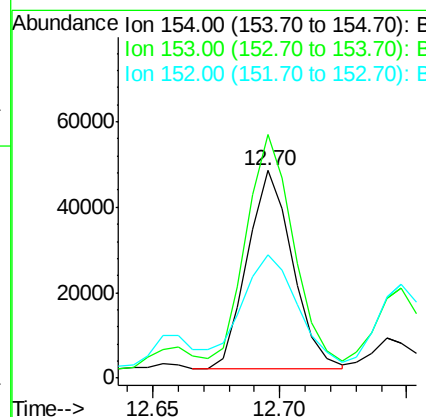
Tgt Ion:154 Resp: 57582

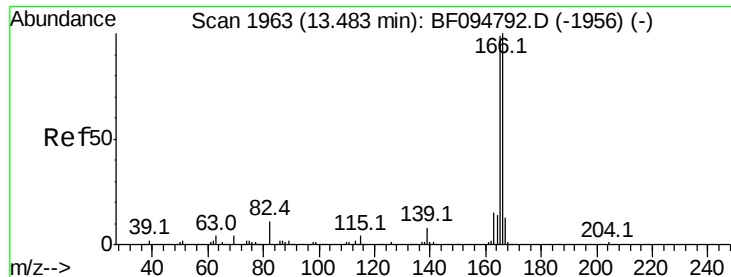
Ion Ratio Lower Upper

154 100

153 117.5 90.5 135.7

152 59.4 43.6 65.4





#57

Fluorene

Concen: 10.53 ng

RT: 13.54 min Scan# 1973

Delta R.T. 0.06 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

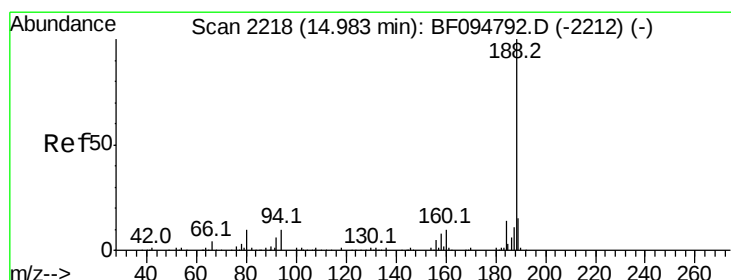
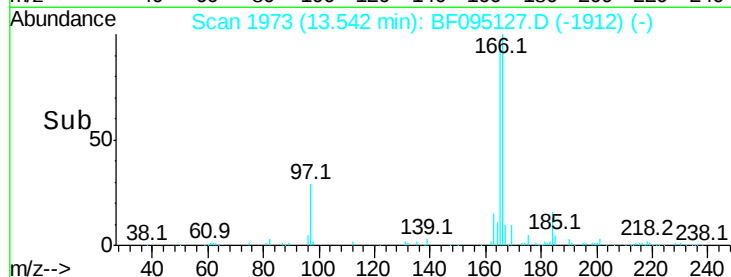
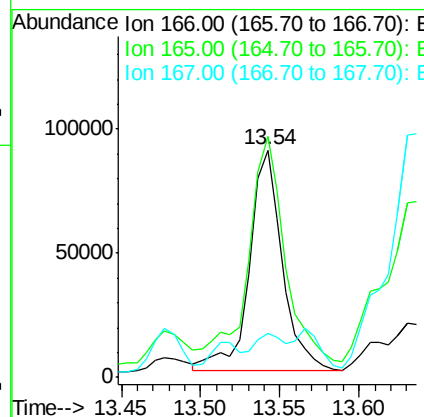
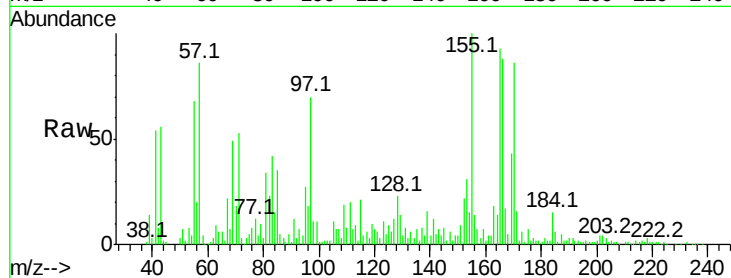
ClientSampleId :

HY-SB432A

Tot Ion	Ratio	Lower	Upper
166	100		
165	106.2	78.8	118.2
167	19.5	10.6	16.0

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

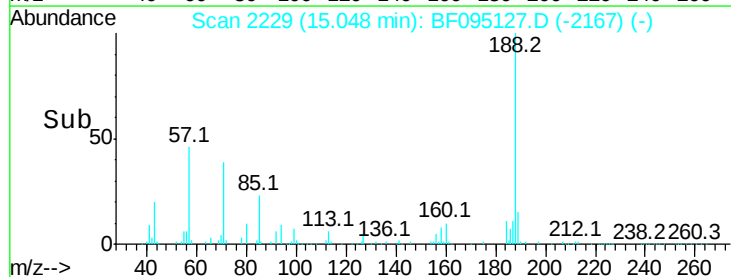
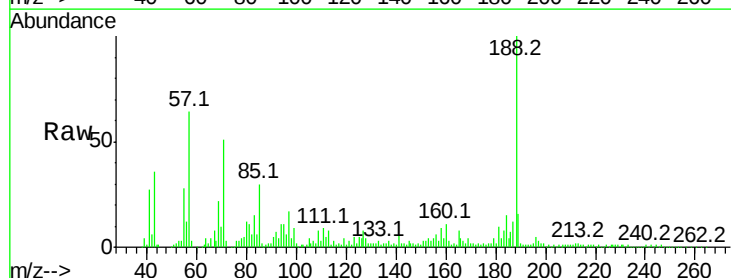
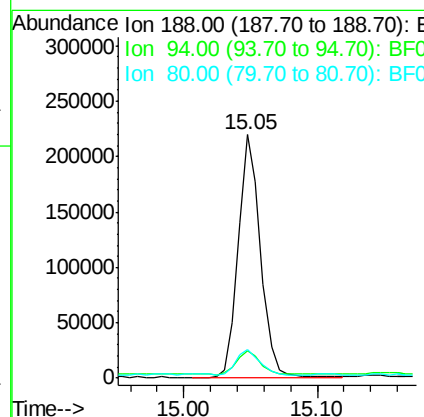
RT: 15.05 min Scan# 2229

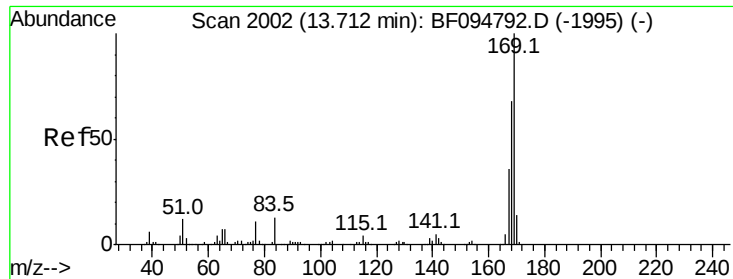
Delta R.T. 0.06 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	9.4	14.2
80	12.0	10.2	15.2





#65

n-Nitrosodiphenylamine

Concen: 17.48 ng

RT: 13.76 min Scan# 2010

Delta R.T. 0.05 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

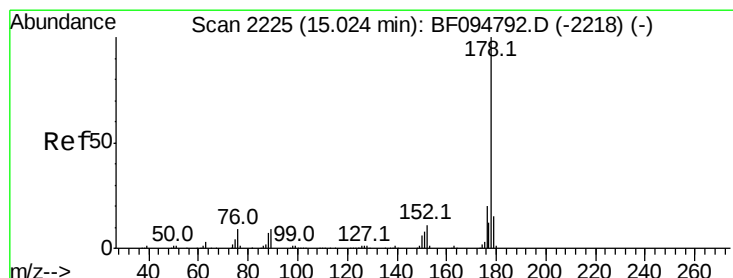
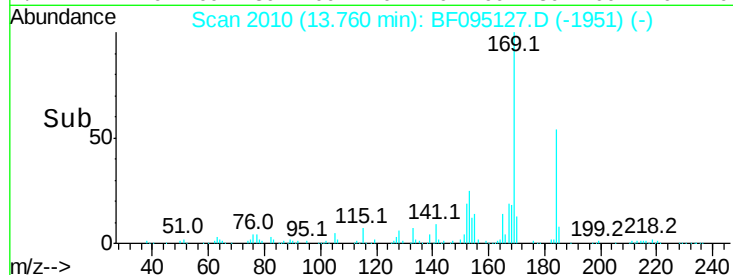
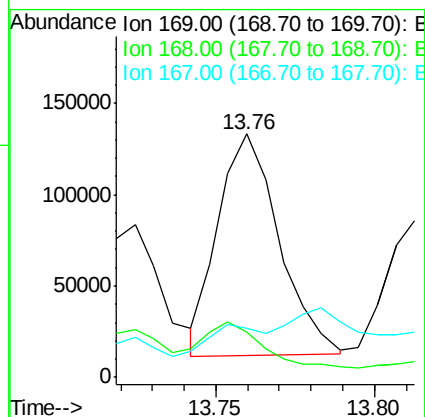
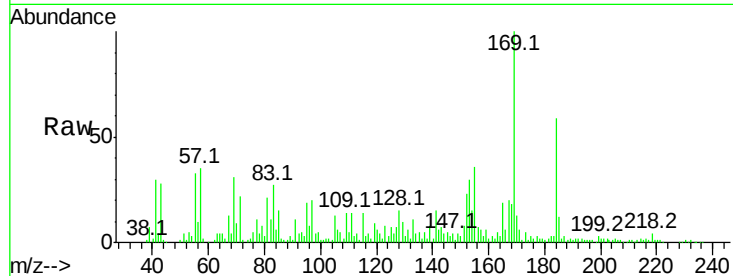
ClientSampleId :

HY-SB432A

Tot Ion:	169	Resp:	161845
Ion Ratio	Lower	Upper	
169	100		
168	18.5	53.2	79.8#
167	20.1	29.5	44.3#

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#70

Phenanthrene

Concen: 23.55 ng

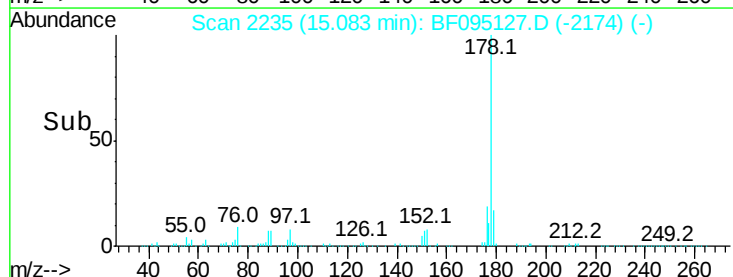
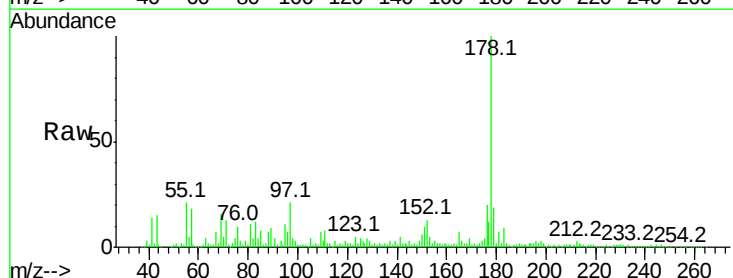
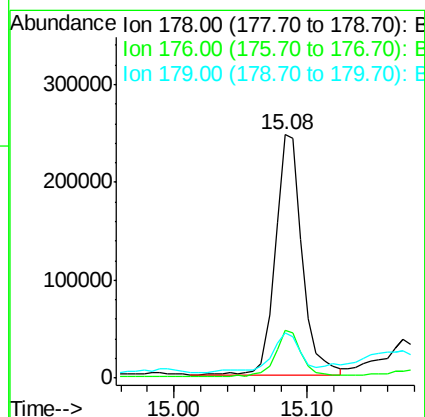
RT: 15.08 min Scan# 2235

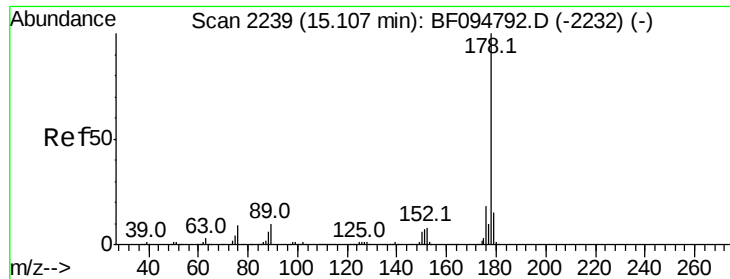
Delta R.T. 0.06 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion:	178	Resp:	345150
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.2	24.4
179	18.6	12.6	19.0





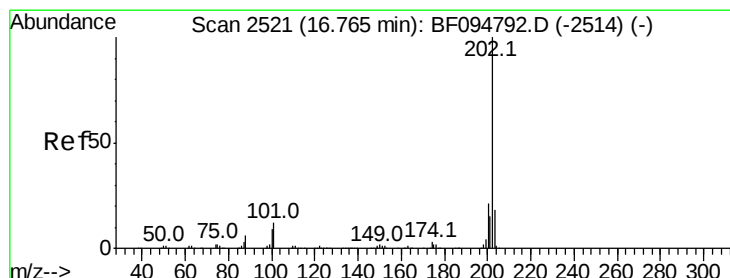
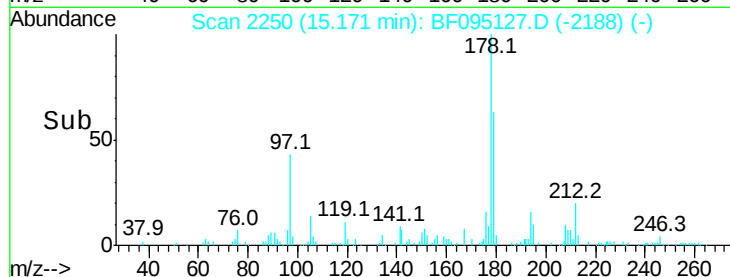
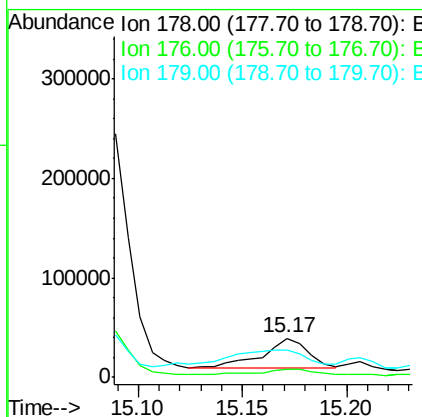
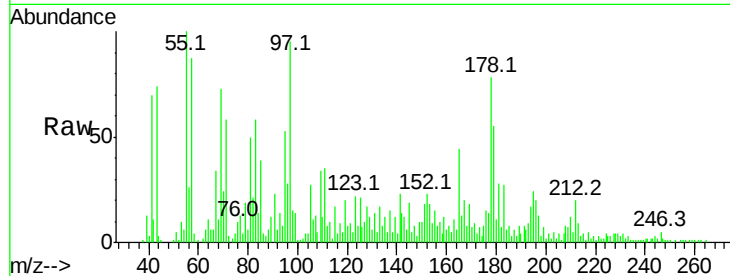
#71
 Anthracene
 Concen: 3.00 ng/mL
 RT: 15.17 min Scan# 2250
 Delta R.T. 0.06 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB432A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	70.4	12.7	19.1

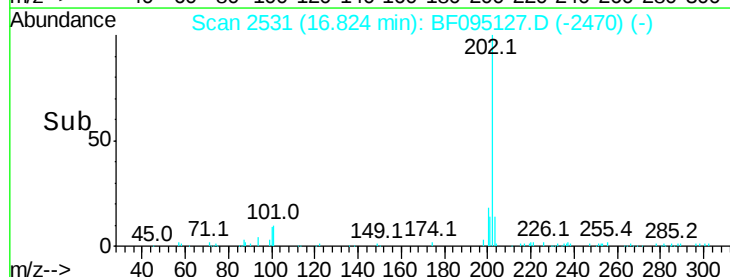
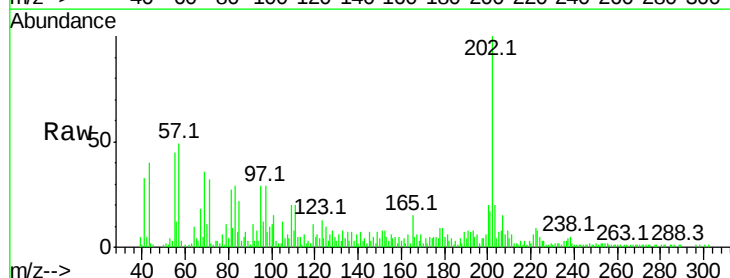
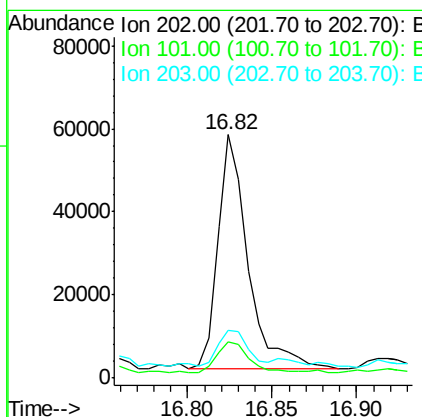
Manual Integrations
 APPROVED

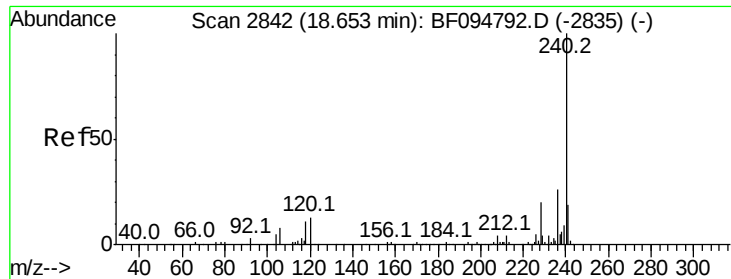
mohammad
 5/17/2017 2:20:01 PM



#74
 Fluoranthene
 Concen: 4.66 ng/mL
 RT: 16.82 min Scan# 2531
 Delta R.T. 0.06 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	33.2
203	19.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.71 min Scan# 2851

Delta R.T. 0.05 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

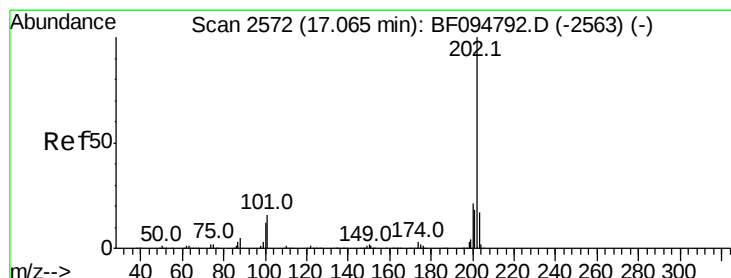
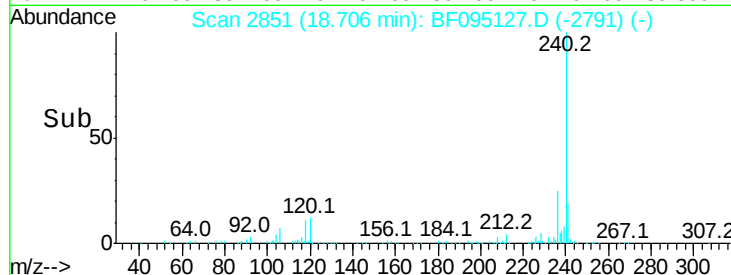
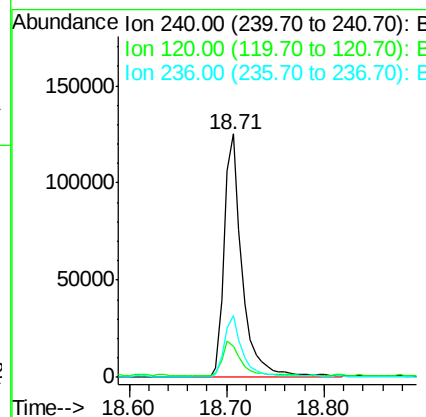
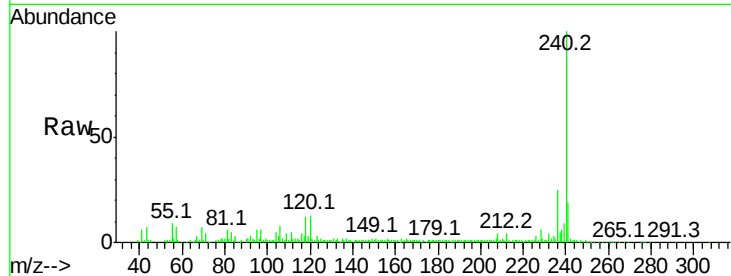
ClientSampleId :

HY-SB432A

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.9	5.8	8.8#
236	25.4	20.5	30.7

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#77

Pyrene

Concen: 15.33 ng

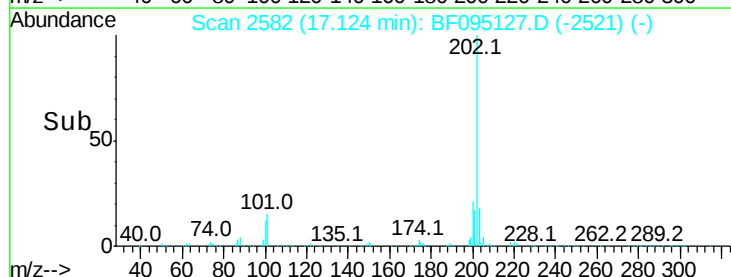
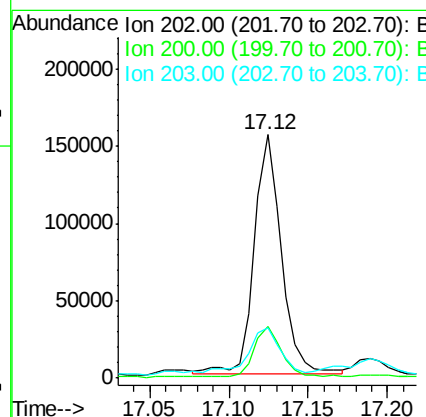
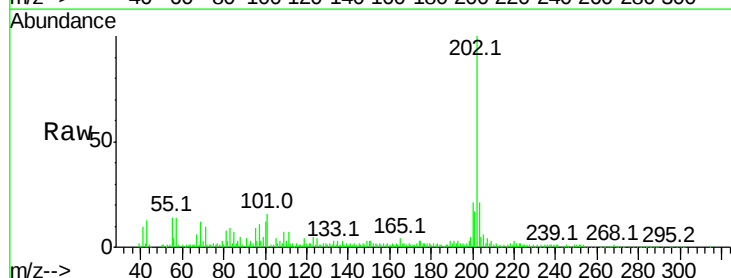
RT: 17.12 min Scan# 2582

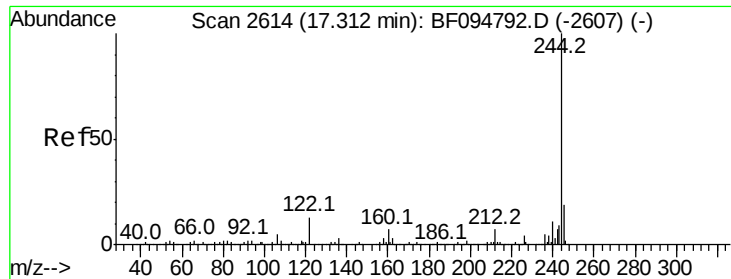
Delta R.T. 0.06 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.6	26.4
203	20.7	14.4	21.6





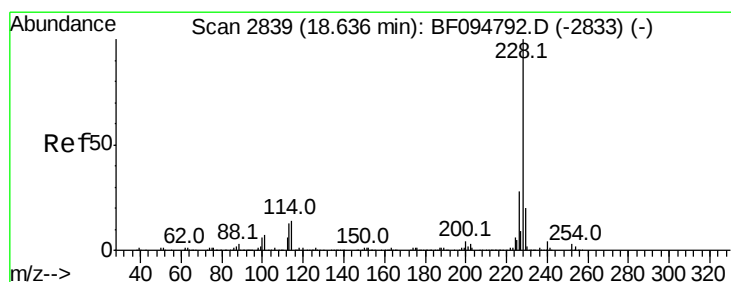
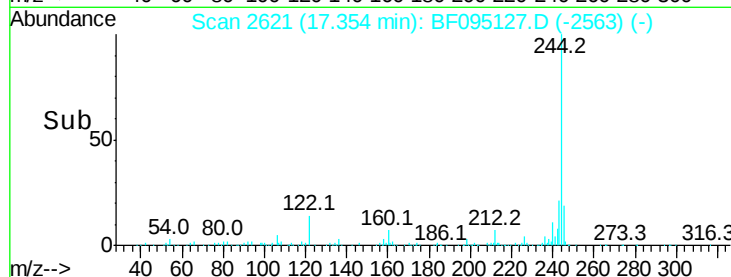
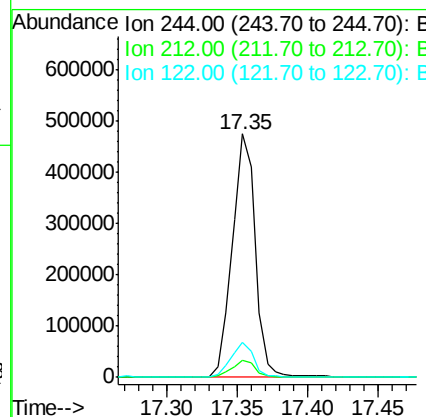
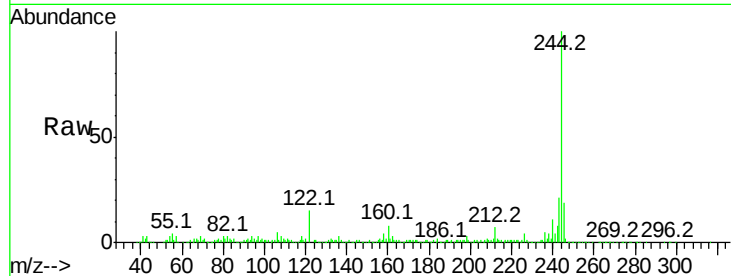
#78
 Terphenyl-d14
 Concen: 73.31 ng
 RT: 17.35 min Scan# 2621
 Delta R.T. 0.04 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB432A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	14.6	10.3	15.5

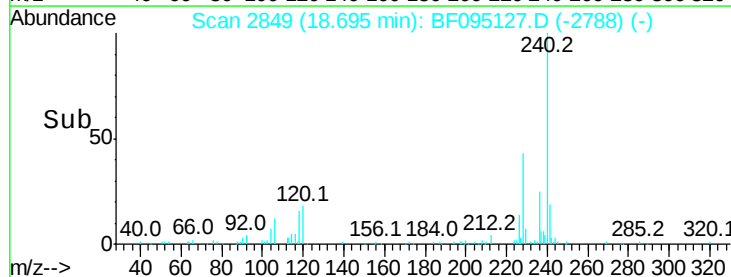
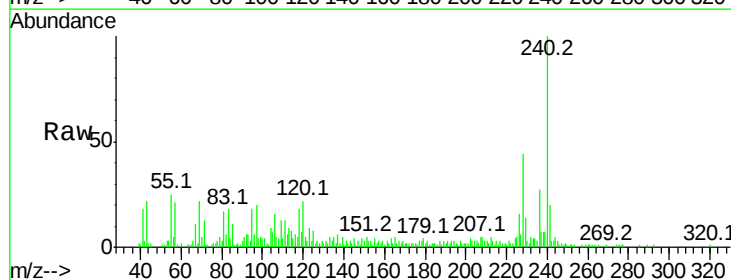
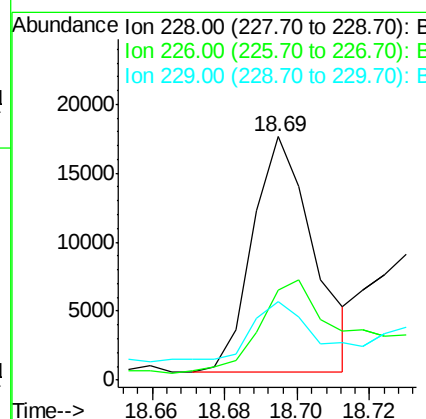
Manual Integrations
 APPROVED

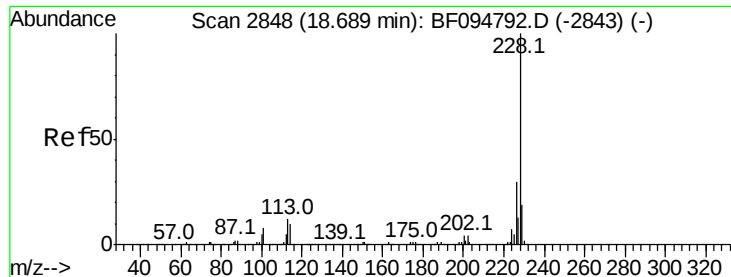
mohammad
 5/17/2017 2:20:01 PM



#80
 Benzo(a)anthracene
 Concen: 2.13 ng
 RT: 18.69 min Scan# 2849
 Delta R.T. 0.06 min
 Lab File: BF095127.D
 Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.2	22.6	33.8#
229	32.3	16.3	24.5#





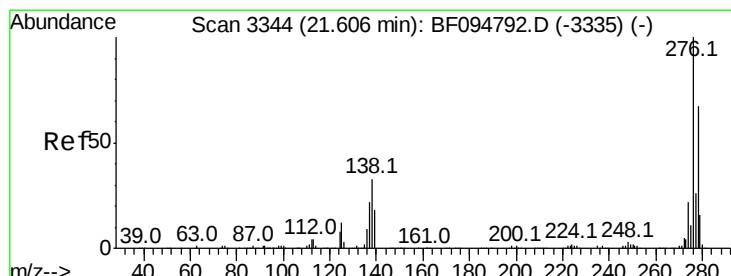
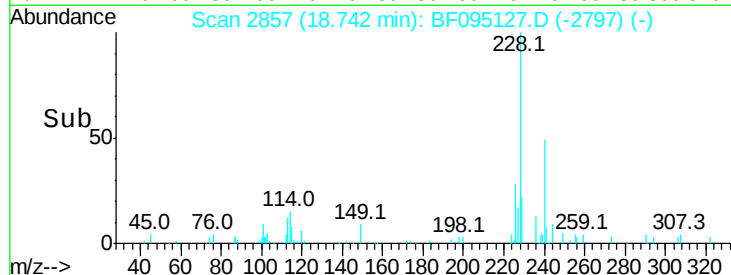
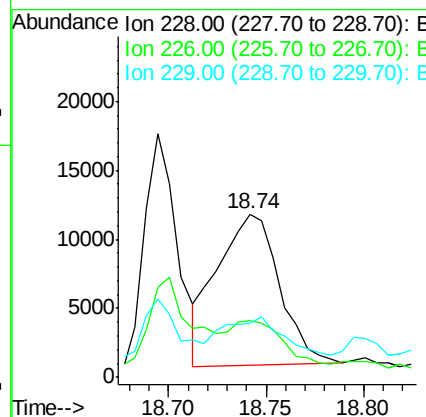
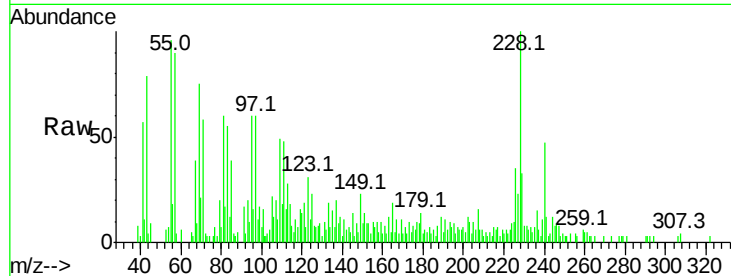
#82
Chrysene
Concen: 2.66 ng
RT: 18.74 min Scan# 2857
Delta R.T. 0.05 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Instrument :
BNA_F
ClientSampleId :
HY-SB432A

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.8	24.9	37.3
229	33.0	15.8	23.6#

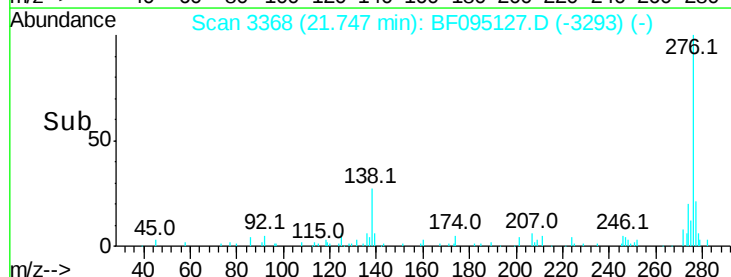
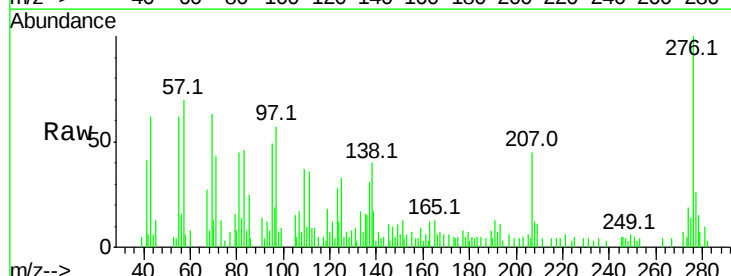
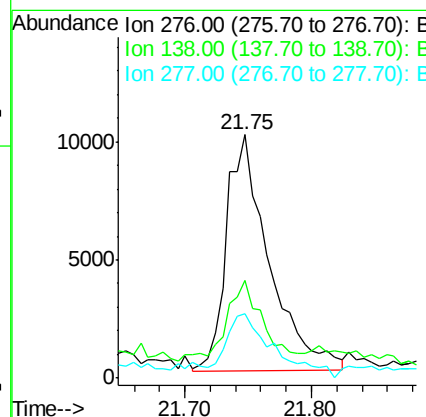
Manual Integrations
APPROVED

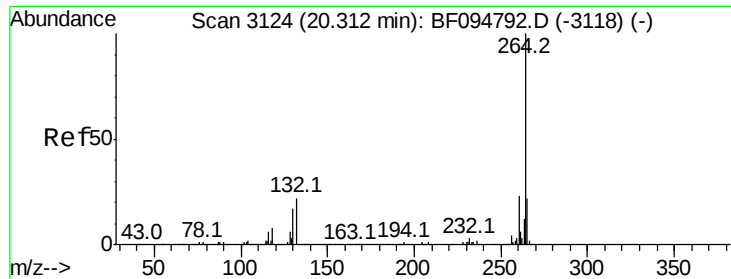
mohammad
5/17/2017 2:20:01 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.19 ng m
RT: 21.75 min Scan# 3368
Delta R.T. 0.14 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.9	27.8	41.6#
277	5.2	20.2	30.4#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.38 min Scan# 3135

Delta R.T. 0.06 min

Lab File: BF095127.D

Acq: 15 May 2017 16:00

Instrument :

BNA_F

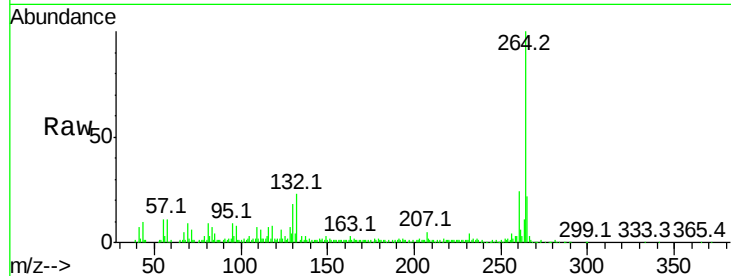
ClientSampled :

HY-SB432A

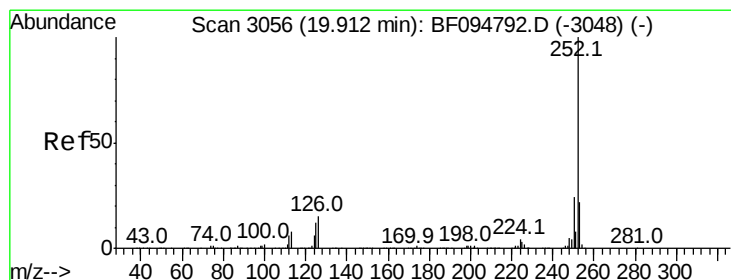
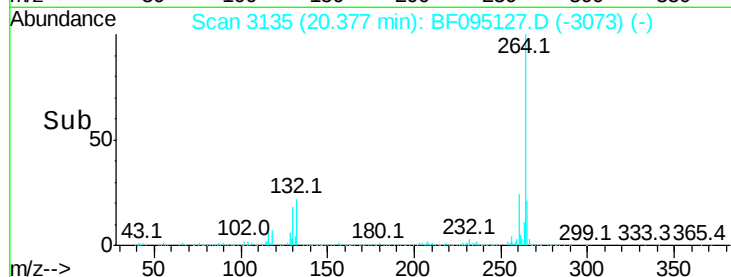
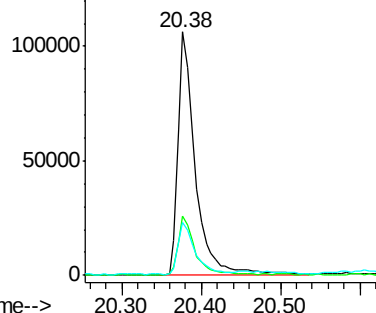
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	21.6	17.2	25.8

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 2.45 ng m

RT: 19.99 min Scan# 3069

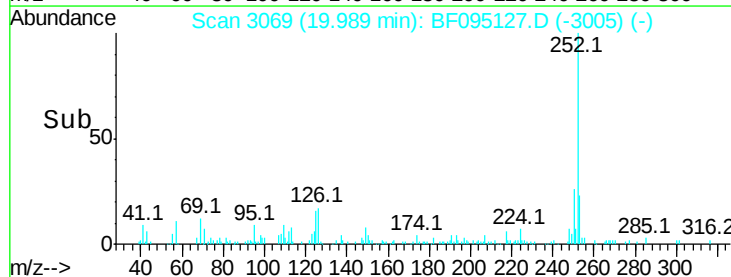
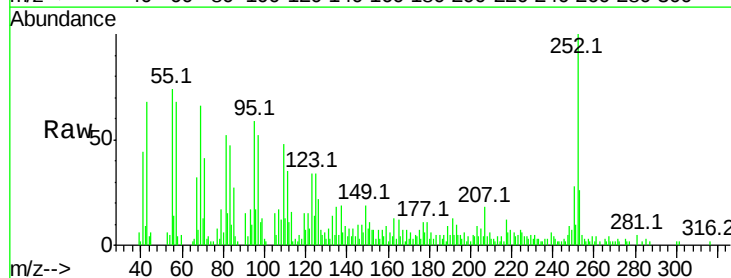
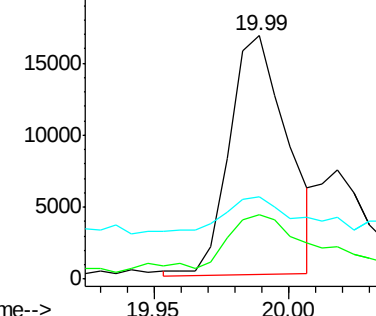
Delta R.T. 0.08 min

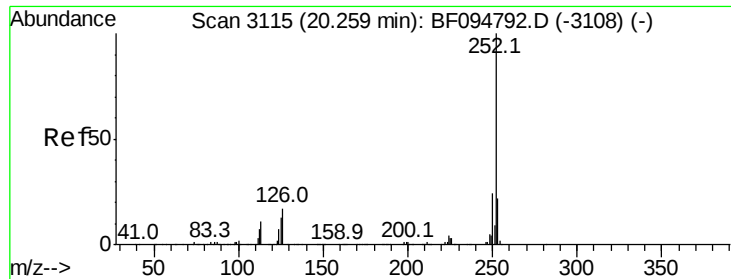
Lab File: BF095127.D

Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.4	18.1	27.1
125	33.6	9.8	14.8#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





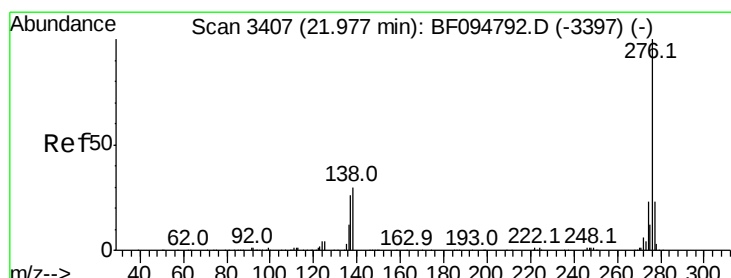
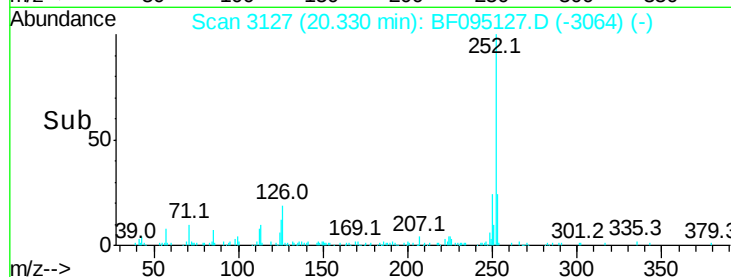
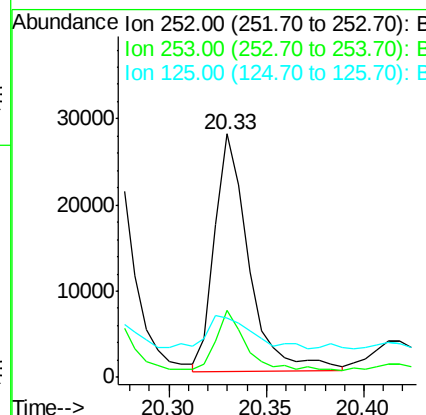
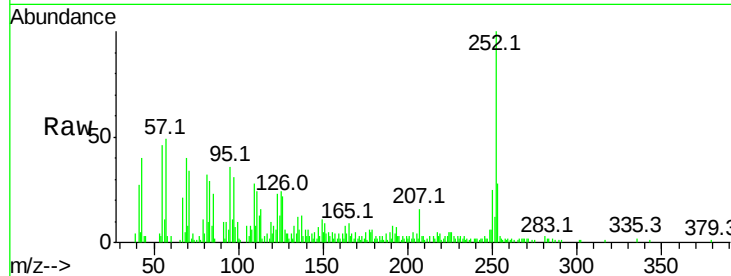
#89
Benzo(a)pyrene
Concen: 3.62 ng
RT: 20.33 min Scan# 3127
Delta R.T. 0.07 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Instrument :
BNA_F
ClientSampleId :
HY-SB432A

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.7	17.5	26.3#
125	24.3	11.0	16.4#

Manual Integrations
APPROVED

mohammad
5/17/2017 2:20:01 PM



#91
Benzo(g,h,i)perylene
Concen: 6.66 ng
RT: 22.12 min Scan# 3431
Delta R.T. 0.14 min
Lab File: BF095127.D
Acq: 15 May 2017 16:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	33.6	25.4	38.0

