

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041317\
 Data File : BF094419.D
 Acq On : 14 Apr 2017 8:39
 Operator : SJ/MA
 Sample : I2662-05DL 20X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPDL

Manual Integrations
 APPROVED

mohammad
 4/14/2017 1:36:28 PM

Quant Time: Apr 14 10:22:10 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 14 01:21:26 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	146236	20.00	ng	-0.05
21) Naphthalene-d8	7.29	136	565853	20.00	ng	-0.05
38) Acenaphthene-d10	9.42	164	234739	20.00	ng	-0.05
63) Phenanthrene-d10	11.25	188	376255	20.00	ng	-0.05
75) Chrysene-d12	14.50	240	296296	20.00	ng	-0.05
86) Perylene-d12	16.12	264	228894	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	45477	5.25	ng	-0.05
7) Phenol-d6	5.41	99	61609	5.75	ng	-0.05
23) Nitrobenzene-d5	6.43	82	33084	3.34	ng	-0.06
41) 2,4,6-Tribromophenol	10.40	330	6546	3.53	ng	-0.05
44) 2-Fluorobiphenyl	8.60	172	69563	4.52	ng	-0.05
78) Terphenyl-d14	13.22	244	44739	3.38	ng	-0.06

Target Compounds					Qvalue
31) Naphthalene	7.31	128	326277	11.99	ng 98
37) 2-Methylnaphthalene	8.15	142	79215	4.37	ng 98
51) Acenaphthene	9.46	154	155350	10.81	ng 98
54) Dibenzofuran	9.67	168	175200	8.95	ng 98
57) Fluorene	10.10	166	144313	8.89	ng 99
70) Phenanthrene	11.28	178	1468292	70.15	ng 99
71) Anthracene	11.34	178	302845	14.05	ng 97
72) Carbazole	11.55	167	156651	7.09	ng 97
74) Fluoranthene	12.74	202	1310137	61.13	ng 100
77) Pyrene	13.02	202	1083294	50.38	ng 98
80) Benzo(a)anthracene	14.49	228	415334	24.04	ng 99
82) Chrysene	14.53	228	403026	25.14	ng 96
85) Indeno(1,2,3-cd)pyrene	17.40	276	133494	9.61	ng 92
87) Benzo(b)fluoranthene	15.72	252	411001m	29.29	ng
88) Benzo(k)fluoranthene	15.74	252	101698m	7.41	ng
89) Benzo(a)pyrene	16.06	252	249335	19.30	ng 98
90) Dibenzo(a,h)anthracene	17.42	278	32607m	2.98	ng
91) Benzo(g,h,i)perylene	17.78	276	121346	11.00	ng 98

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

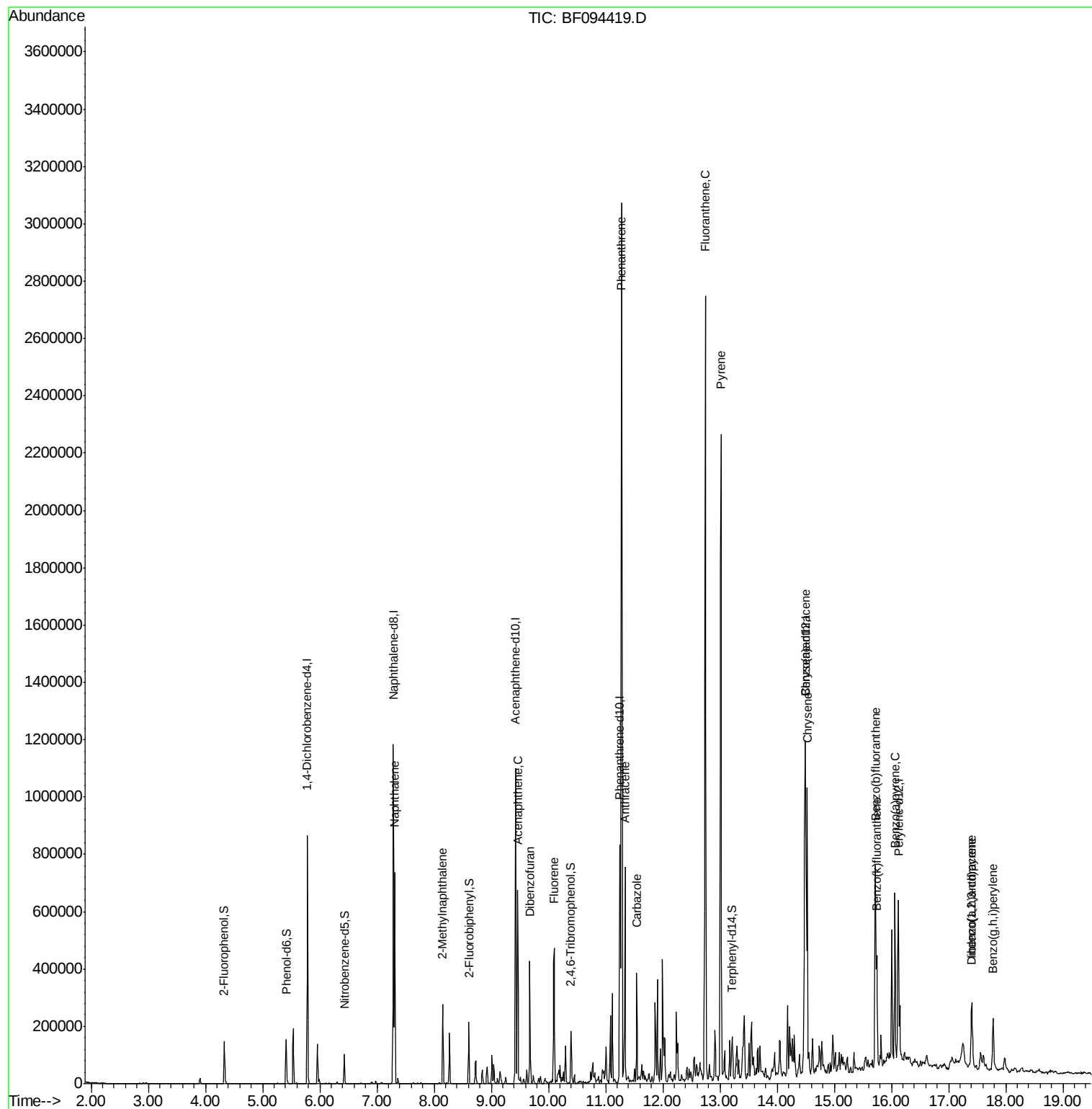
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041317\
Data File : BF094419.D
Acq On : 14 Apr 2017 8:39
Operator : SJ/MA
Sample : I2662-05DL 20X
Misc :
ALS Vial : 30 Sample Multiplier: 1

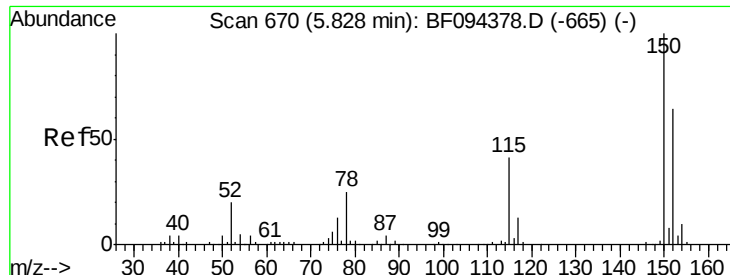
Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPDL

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM

Quant Time: Apr 14 10:22:10 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 14 01:21:26 2017
Response via : Initial Calibration





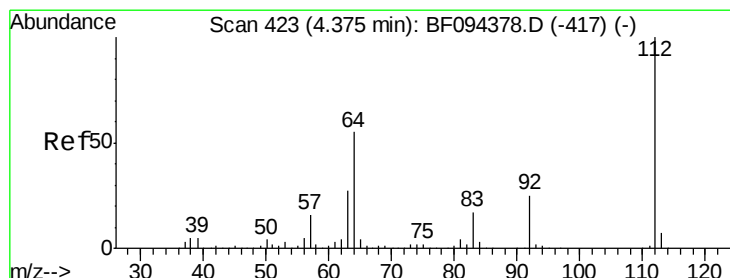
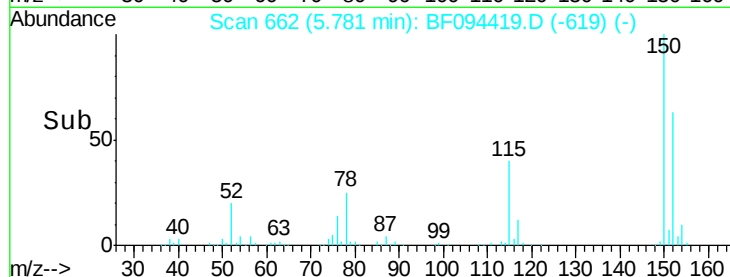
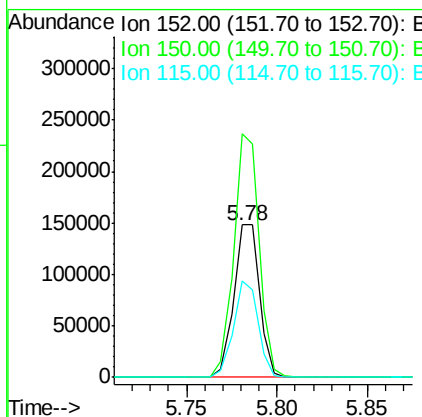
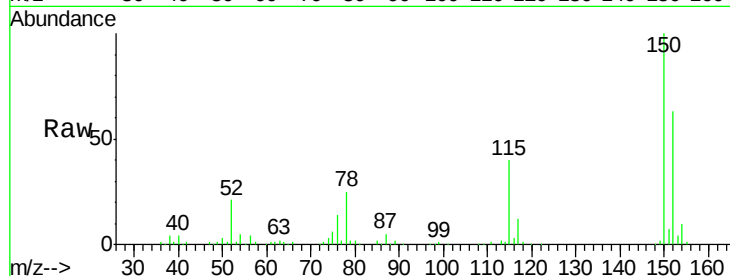
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.78 min Scan# 662
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.7	126.2	189.2
115	63.4	52.2	78.2

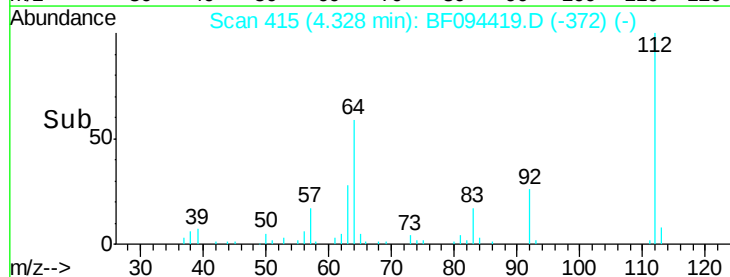
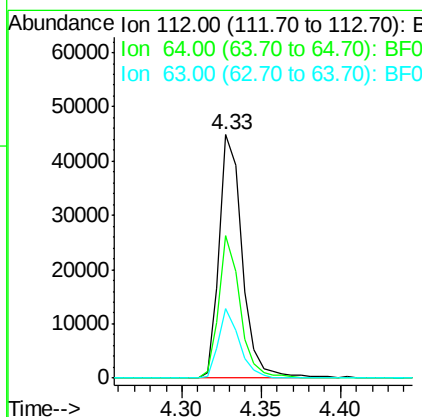
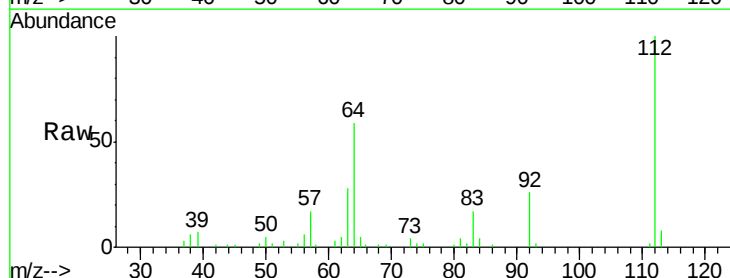
Manual Integrations
 APPROVED

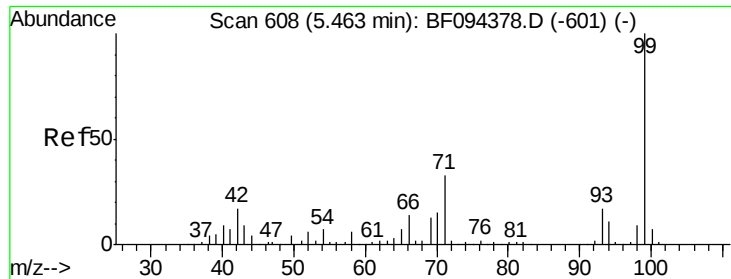
mohammad
 4/14/2017 1:36:28 PM



#5
 2-Fluorophenol
 Concen: 5.25 ng
 RT: 4.33 min Scan# 415
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	46.0	69.0
63	28.4	23.4	35.0





#7

Phenol-d6

Concen: 5.75 ng

RT: 5.41 min Scan# 599

Delta R.T. -0.05 min

Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Instrument :

BNA_F

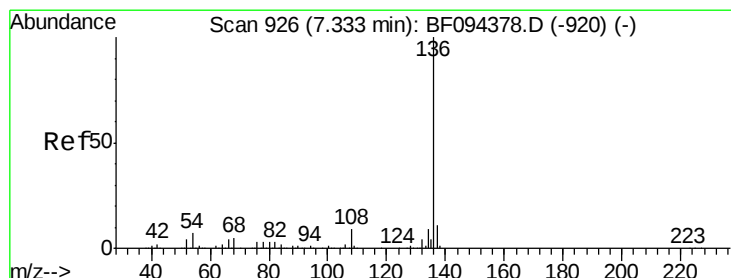
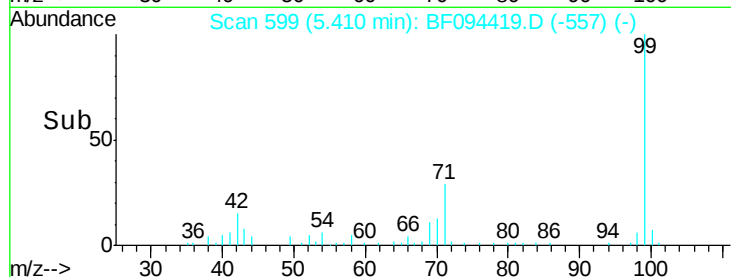
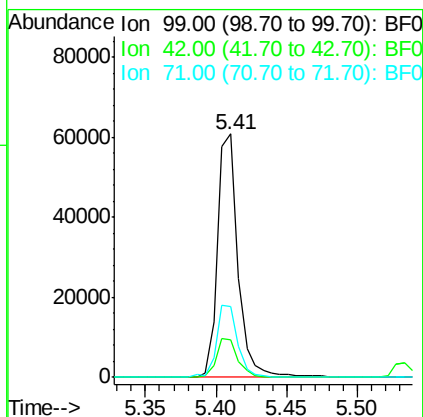
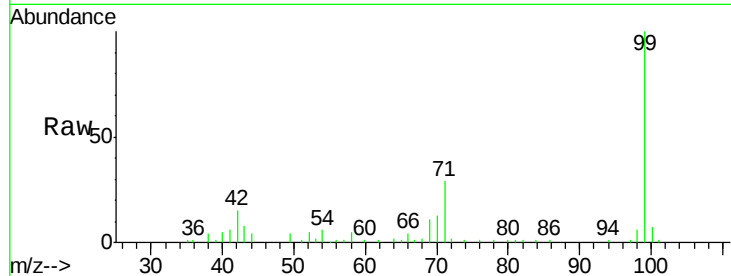
ClientSampleId :

AREA-3-COMPDL

Tgt Ion:	99	Resp:	61609
Ion Ratio	Lower	Upper	
99	100		
42	15.2	13.5	20.3
71	29.0	24.5	36.7

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM



#21

Naphthalene-d8

Concen: 20.00 ng

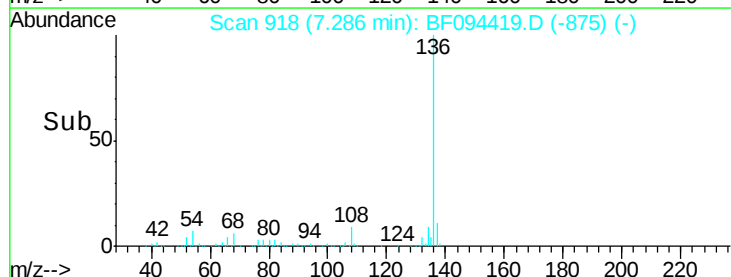
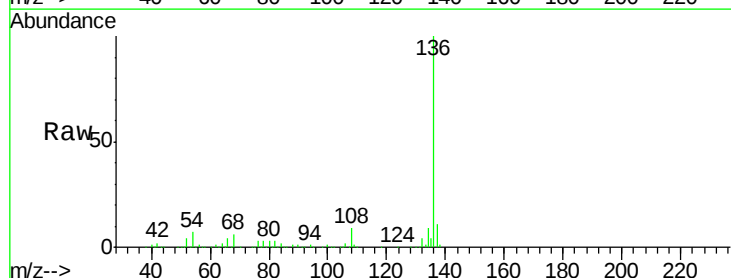
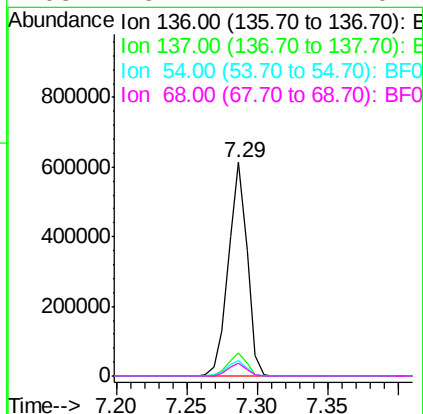
RT: 7.29 min Scan# 918

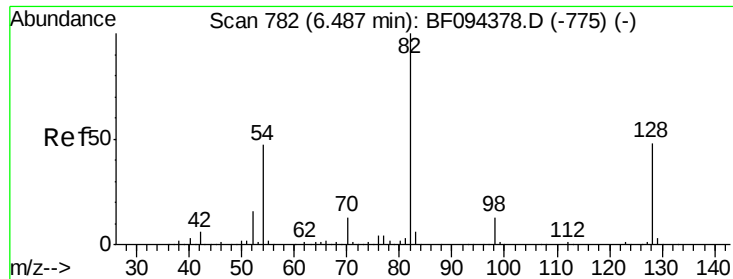
Delta R.T. -0.05 min

Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Tgt Ion:	136	Resp:	565853
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	7.1	4.9	7.3
68	5.7	4.1	6.1





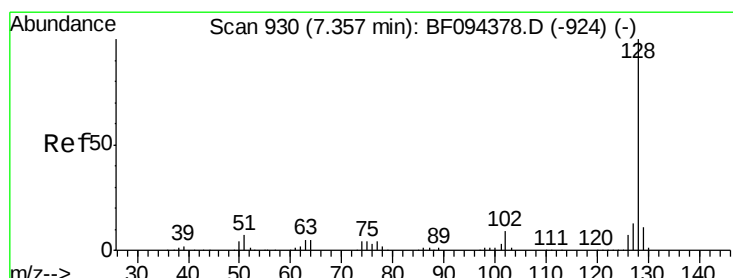
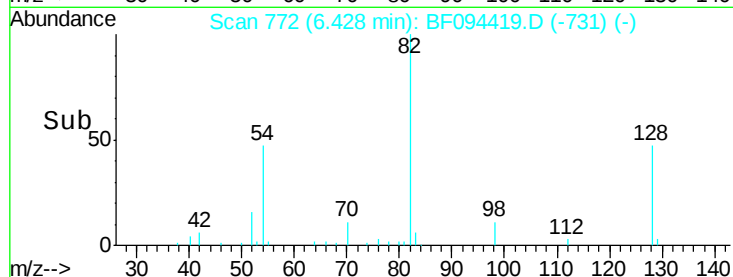
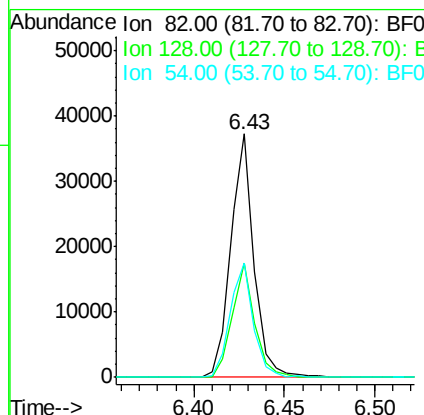
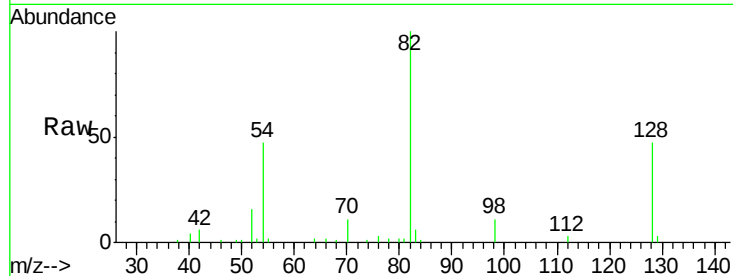
#23
 Nitrobenzene-d5
 Concen: 3.34 ng
 RT: 6.43 min Scan# 772
 Delta R.T. -0.06 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPD

Tgt Ion:	82	Resp:	33084
Ion Ratio	Lower	Upper	
82	100		
128	46.8	34.0	51.0
54	46.9	42.2	63.2

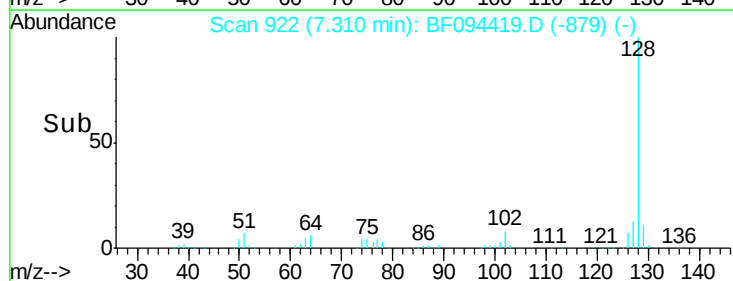
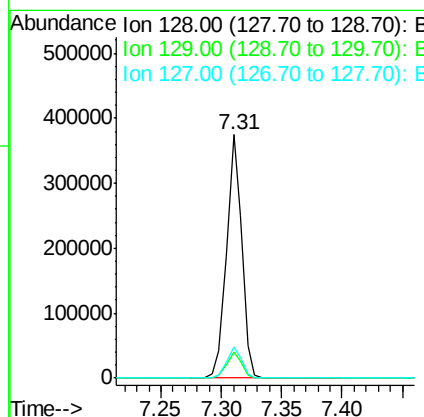
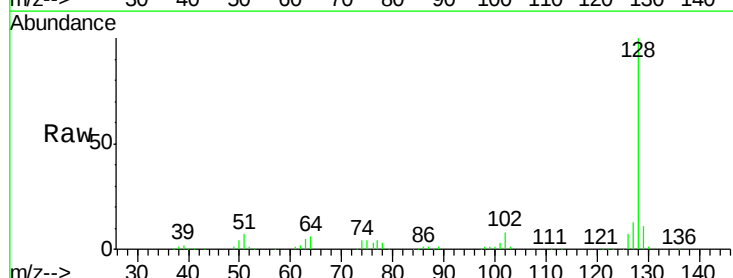
Manual Integrations
 APPROVED

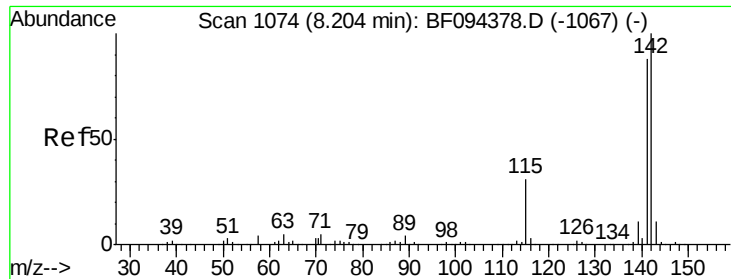
mohammad
 4/14/2017 1:36:28 PM



#31
 Naphthalene
 Concen: 11.99 ng
 RT: 7.31 min Scan# 922
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion:	128	Resp:	326277
Ion Ratio	Lower	Upper	
128	100		
129	10.6	9.0	13.6
127	12.7	10.8	16.2





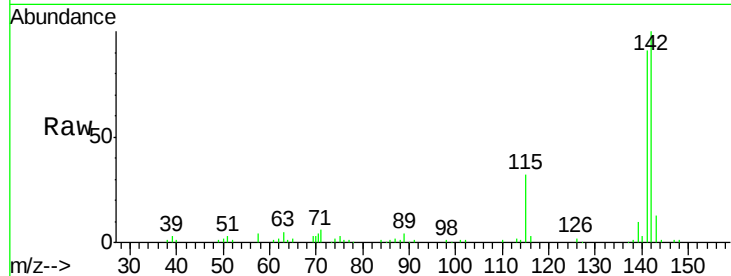
#37
2-Methylnaphthalene
Concen: 4.37 ng
RT: 8.15 min Scan# 1065
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPDL

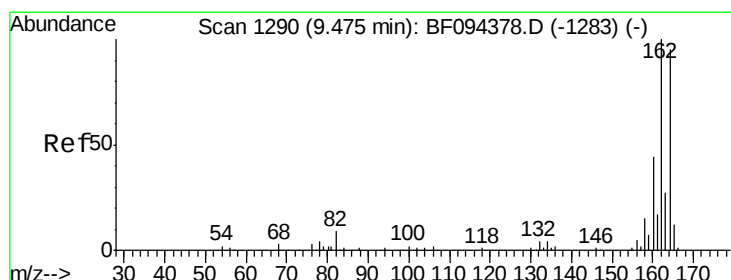
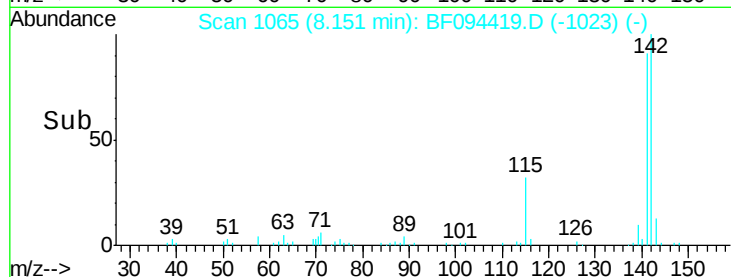
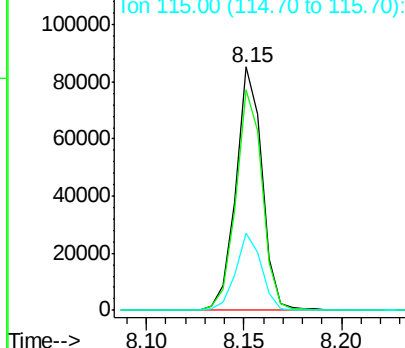
Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.3	106.9
115	31.6	27.1	40.7

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM

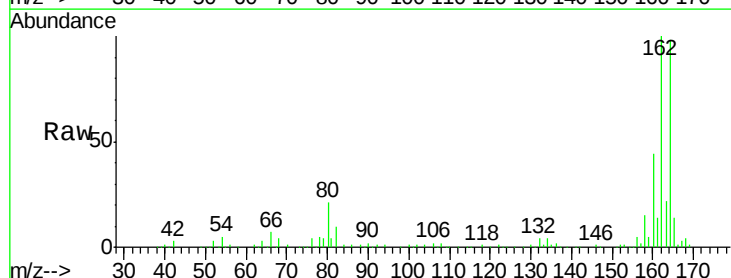


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

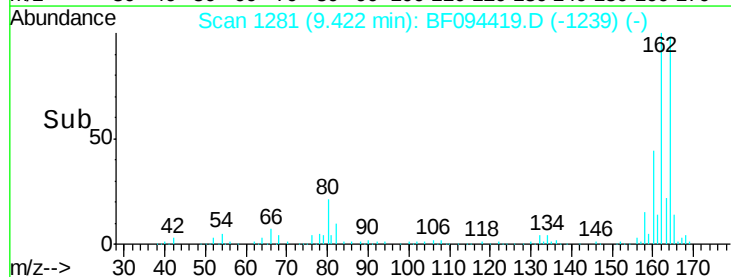
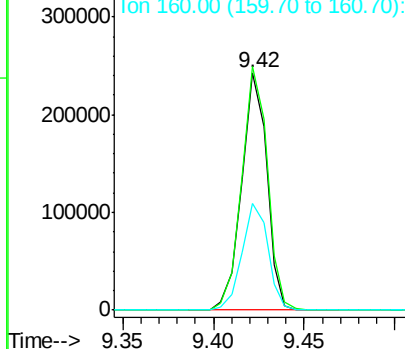


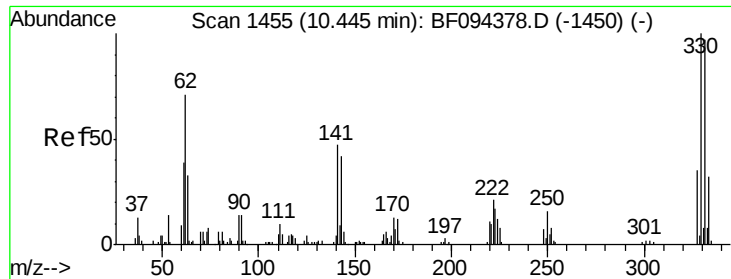
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.42 min Scan# 1281
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.6	123.8
160	45.0	36.2	54.2



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





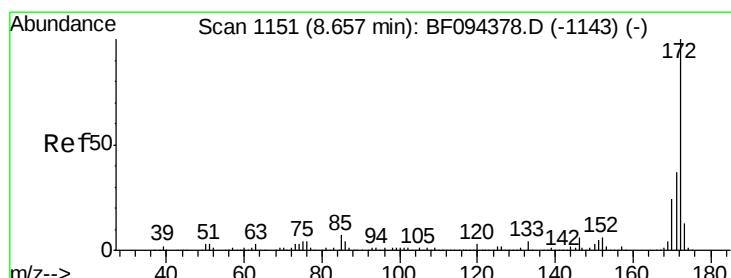
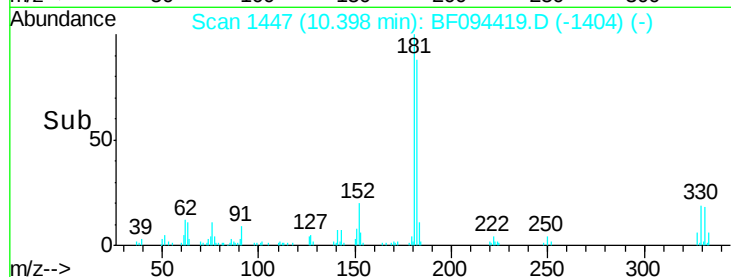
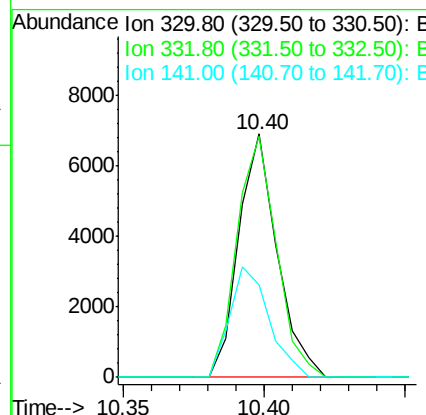
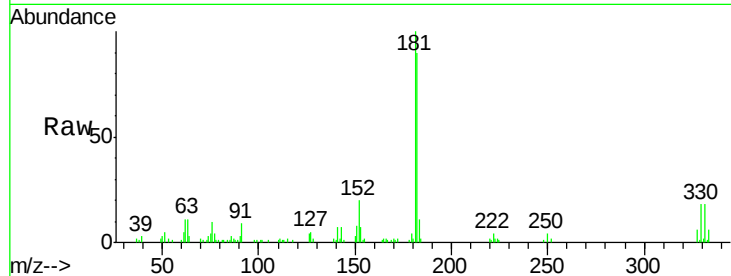
#41
 2,4,6-Tribromophenol
 Concen: 3.53 ng
 RT: 10.40 min Scan# 1447
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPDL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.6	76.6	115.0
141	46.3	31.4	47.2

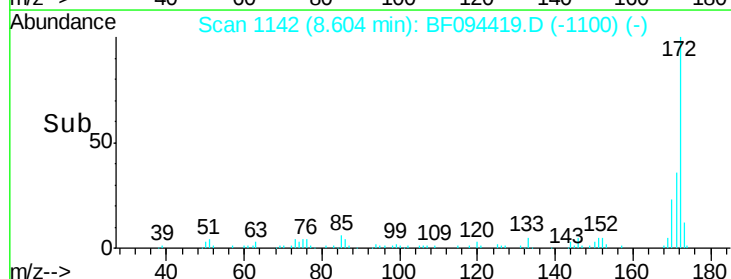
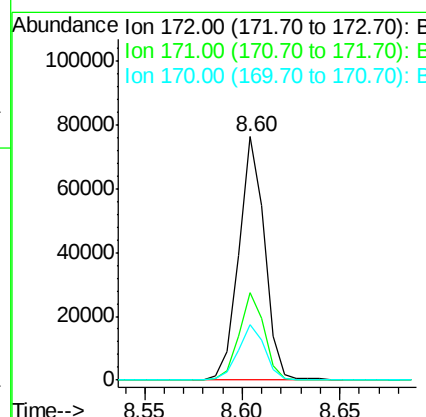
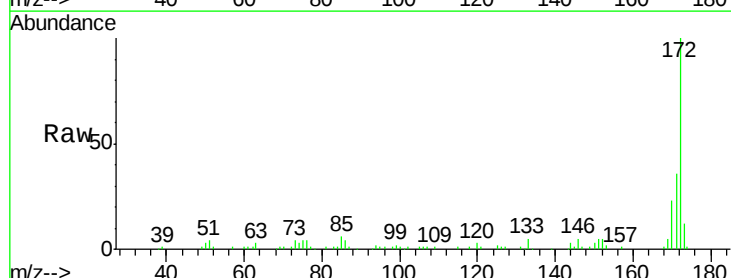
Manual Integrations
 APPROVED

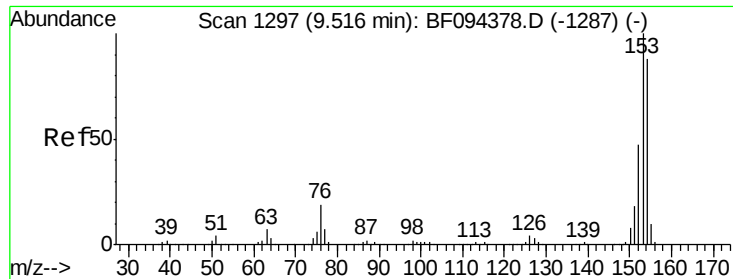
mohammad
 4/14/2017 1:36:28 PM



#44
 2-Fluorobiphenyl
 Concen: 4.52 ng
 RT: 8.60 min Scan# 1142
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	22.9	19.8	29.8





#51

Acenaphthene

Concen: 10.81 ng

RT: 9.46 min Scan# 1288

Delta R.T. -0.05 min

Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Instrument :

BNA_F

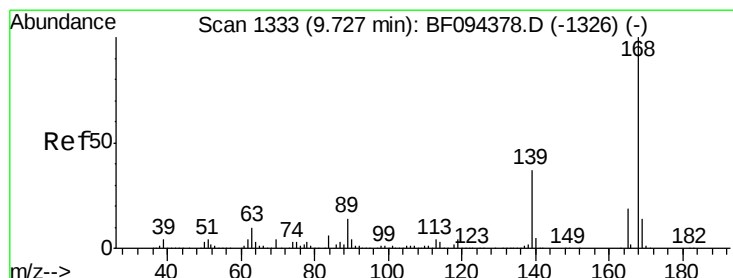
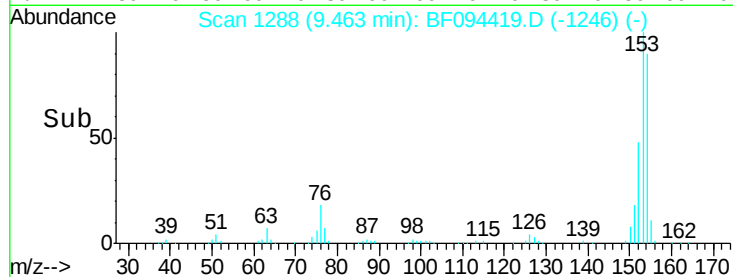
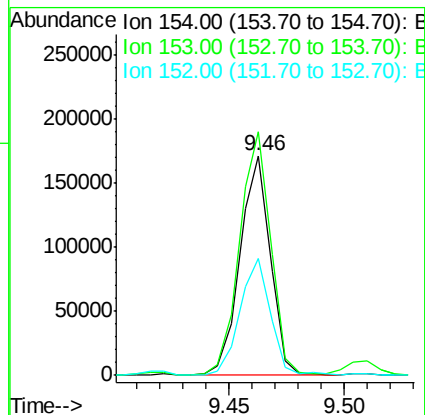
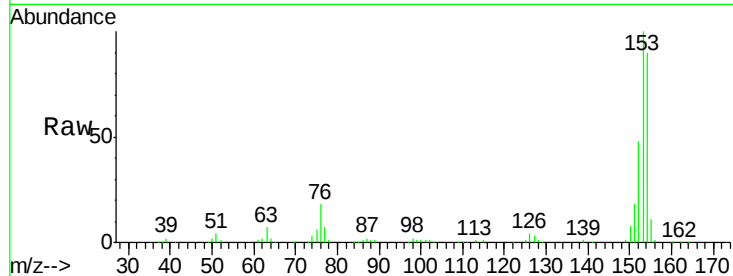
ClientSampleId :

AREA-3-COMPDL

Tgt Ion:	154	Resp:	155350
Ion Ratio	Lower	Upper	
154	100		
153	110.8	90.5	135.7
152	53.0	43.6	65.4

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM



#54

Dibenzofuran

Concen: 8.95 ng

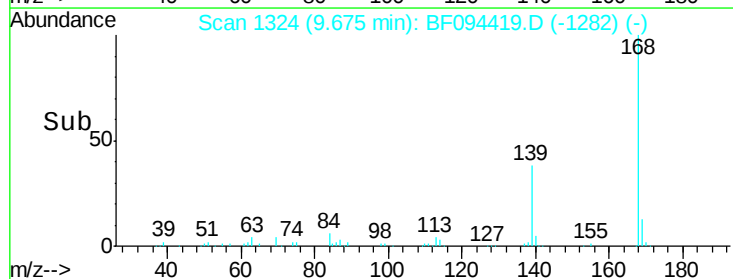
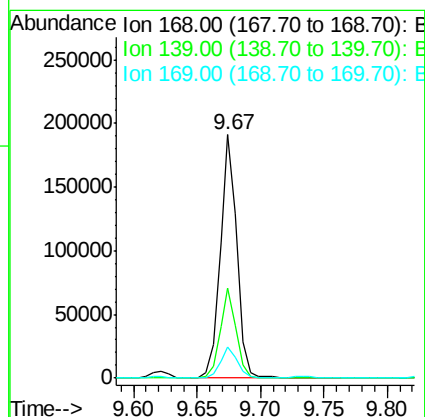
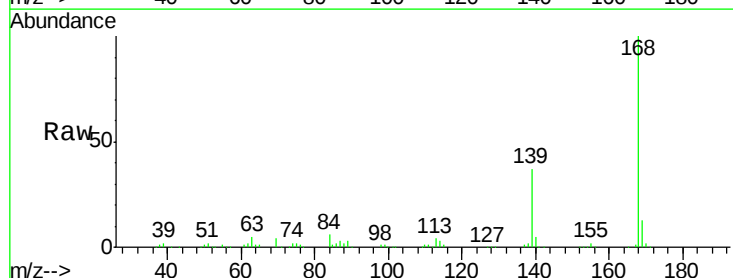
RT: 9.67 min Scan# 1324

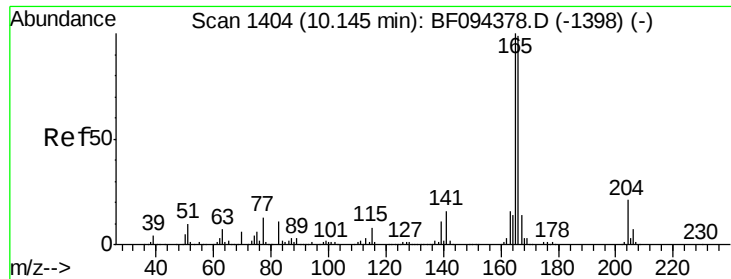
Delta R.T. -0.05 min

Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Tgt Ion:	168	Resp:	175200
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.6	45.8
169	12.9	10.8	16.2





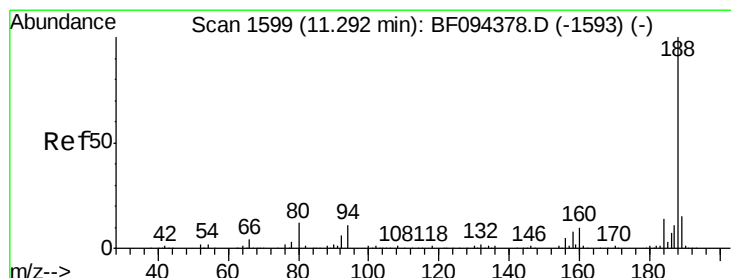
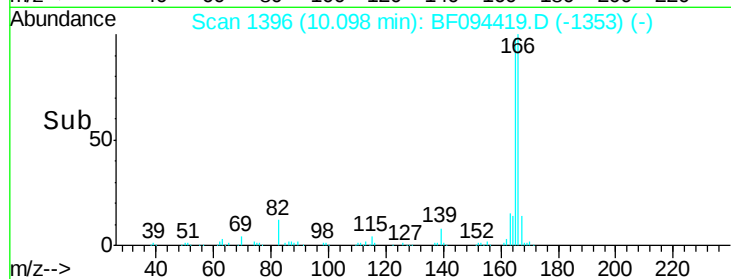
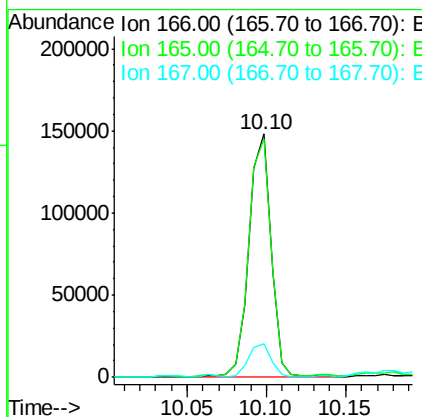
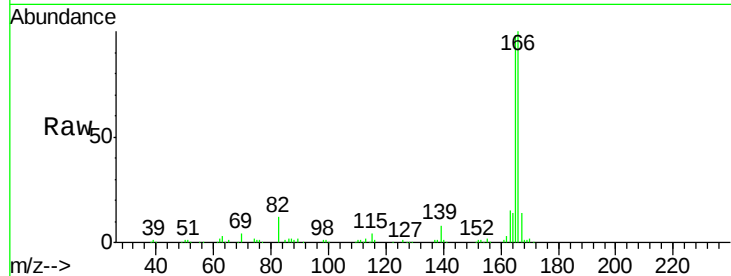
#57
Fluorene
 Concen: 8.89 ng
 RT: 10.10 min Scan# 1396
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPD

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	144313		
165	98.1	78.8	118.2	
167	13.9	10.6	16.0	

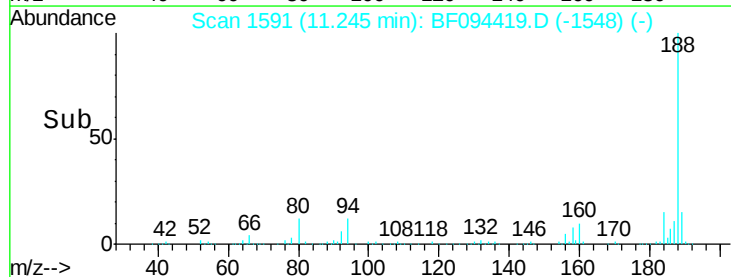
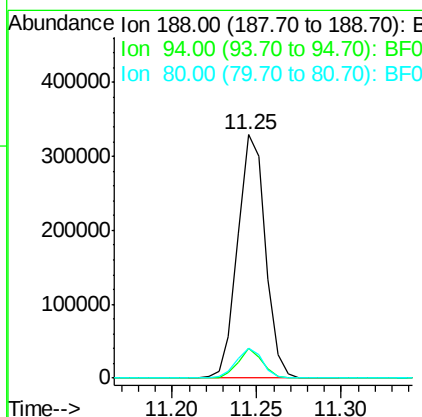
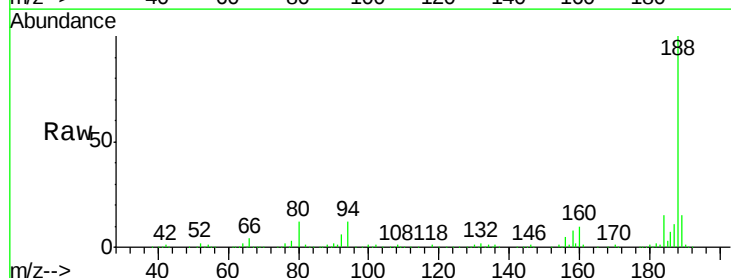
Manual Integrations
 APPROVED

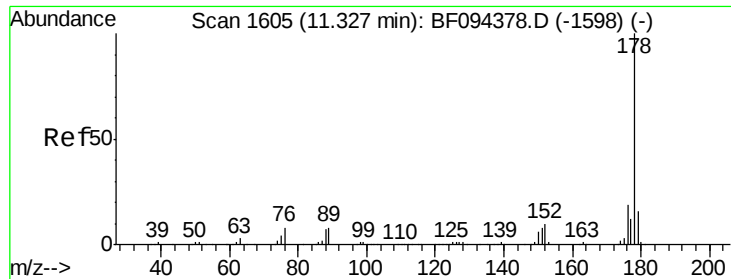
mohammad
 4/14/2017 1:36:28 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 1591
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	376255		
94	12.0	9.4	14.2	
80	12.0	10.2	15.2	





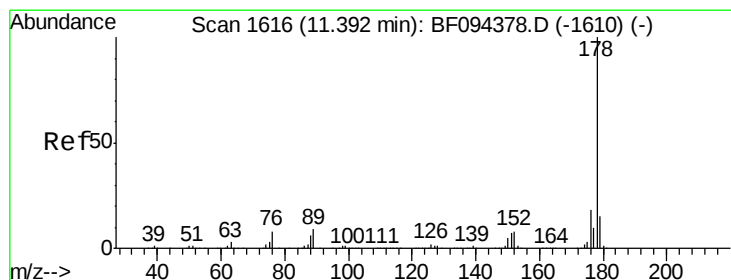
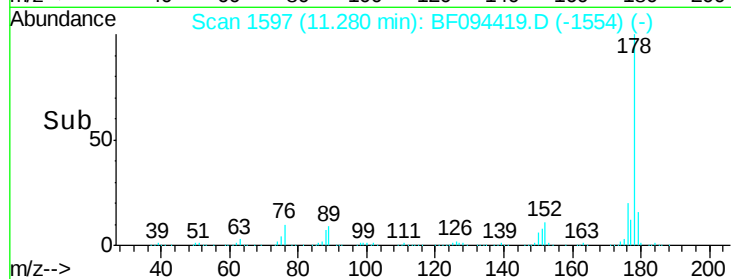
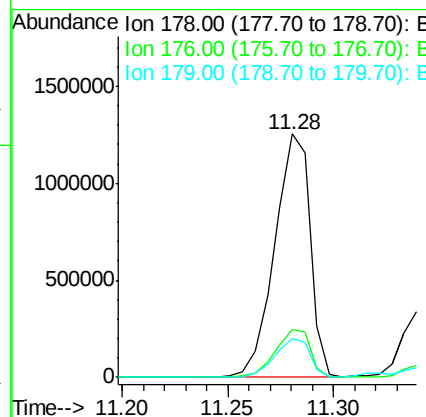
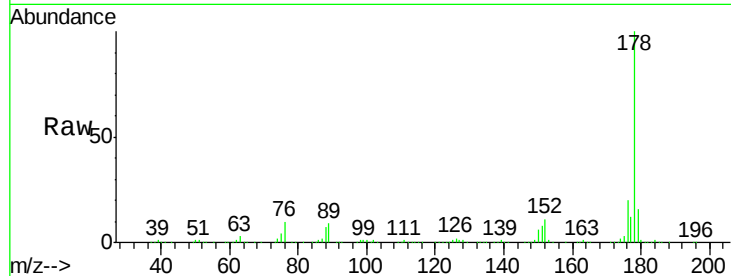
#70
Phenanthrene
Concen: 70.15 ng
RT: 11.28 min Scan# 1597
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPD

Tgt Ion:178 Resp: 1468292
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 15.9 12.6 19.0

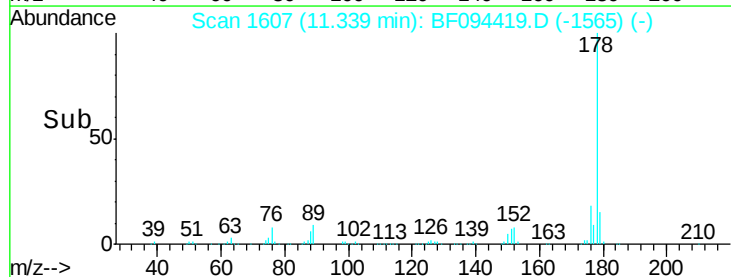
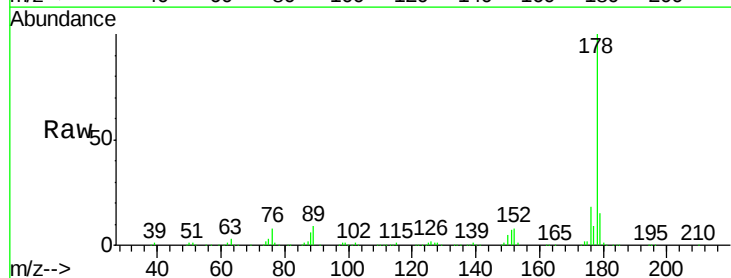
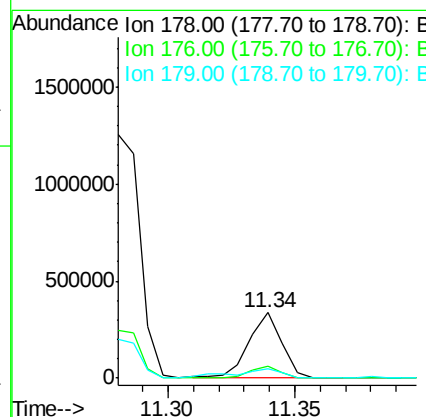
Manual Integrations
APPROVED

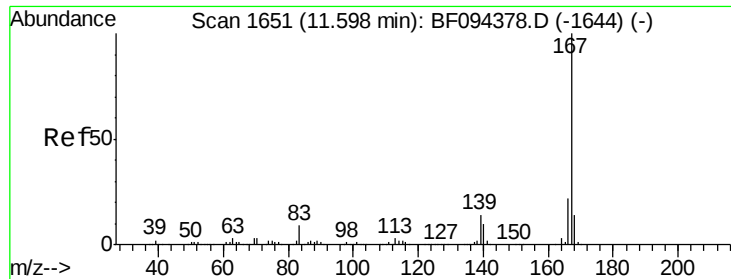
mohammad
4/14/2017 1:36:28 PM



#71
Anthracene
Concen: 14.05 ng
RT: 11.34 min Scan# 1607
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion:178 Resp: 302845
Ion Ratio Lower Upper
178 100
176 17.7 15.8 23.8
179 15.3 12.7 19.1





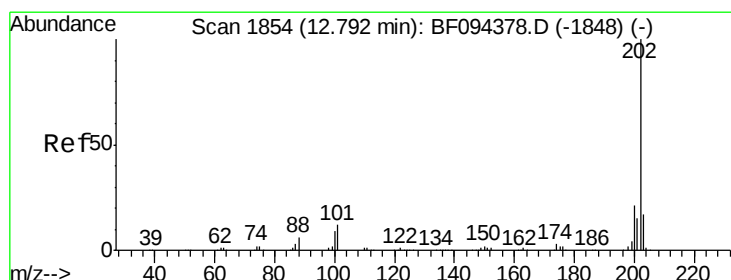
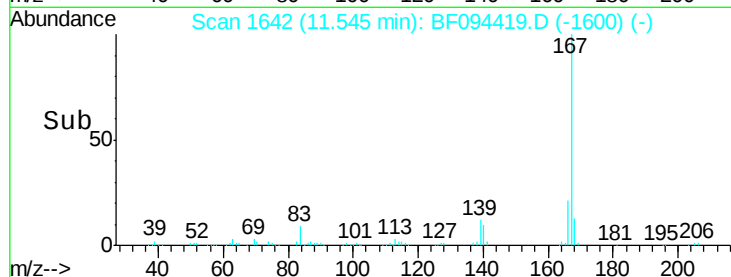
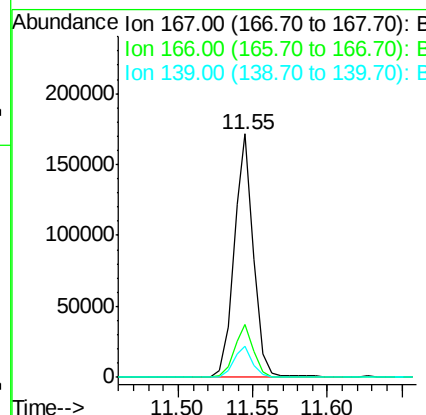
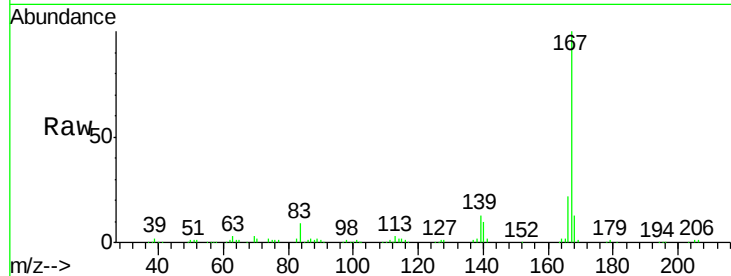
#72
 Carbazole
 Concen: 7.09 ng
 RT: 11.55 min Scan# 1642
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPDL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	18.1	27.1
139	12.7	11.7	17.5

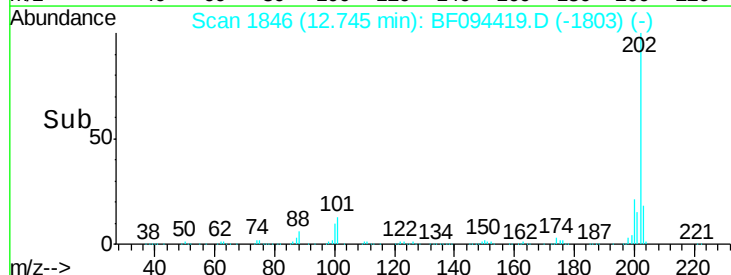
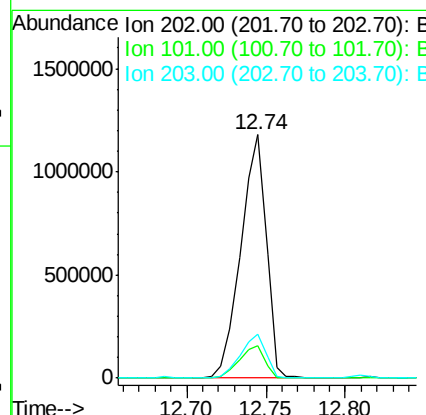
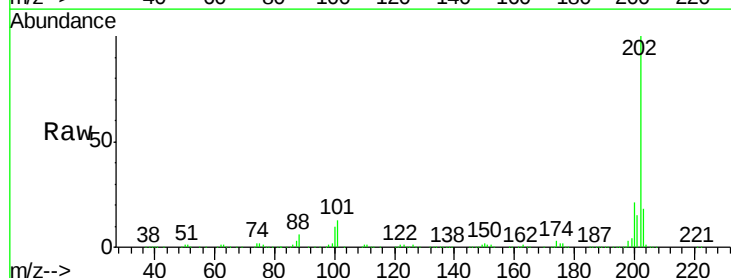
Manual Integrations
 APPROVED

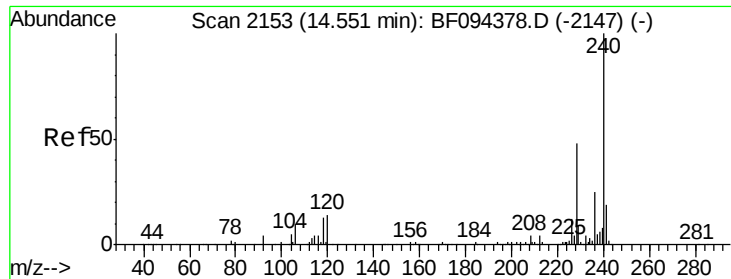
mohammad
 4/14/2017 1:36:28 PM



#74
 Fluoranthene
 Concen: 61.13 ng
 RT: 12.74 min Scan# 1846
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	33.2
203	18.3	0.0	38.1





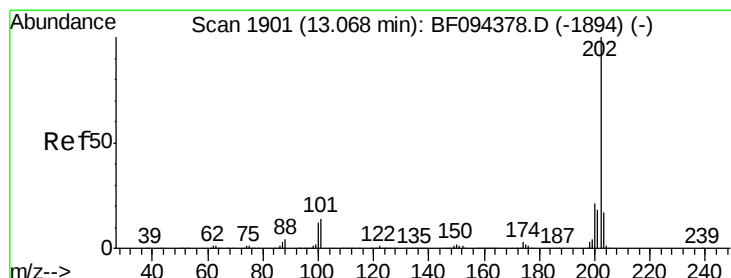
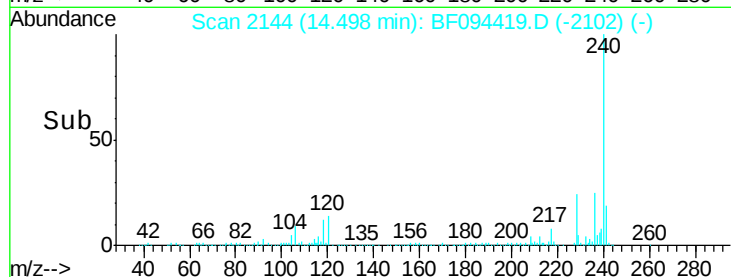
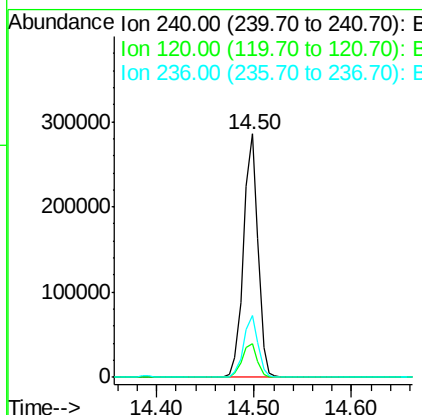
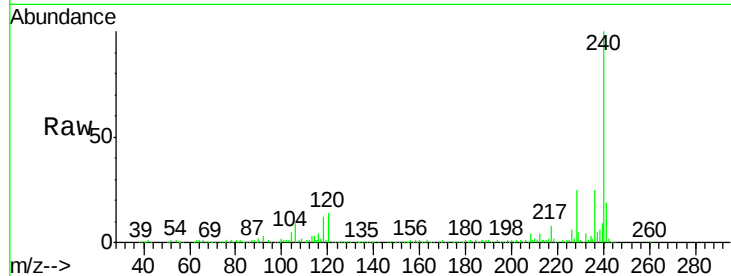
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.50 min Scan# 2144
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPDL

Tgt Ion:240 Resp: 296296
Ion Ratio Lower Upper
240 100
120 14.1 5.8 8.8#
236 25.2 20.5 30.7

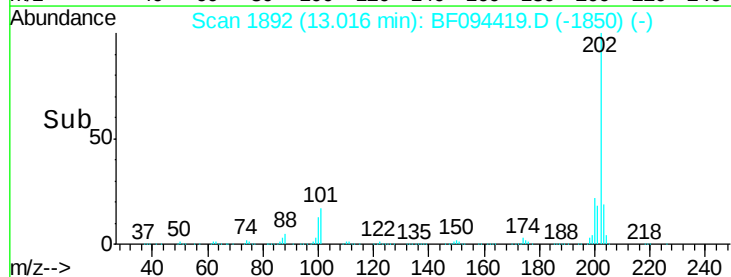
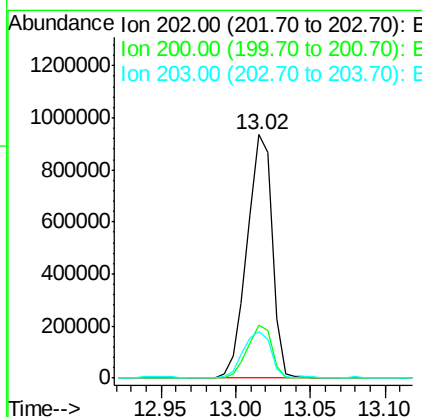
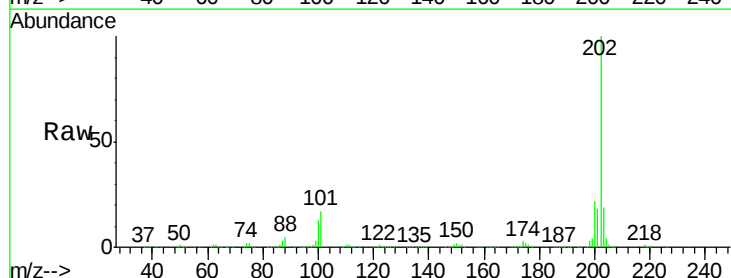
Manual Integrations
APPROVED

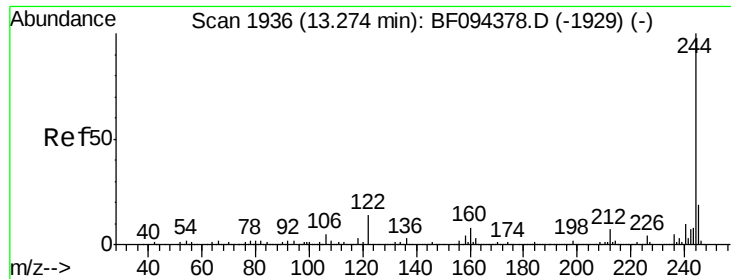
mohammad
4/14/2017 1:36:28 PM



#77
Pyrene
Concen: 50.38 ng
RT: 13.02 min Scan# 1892
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion:202 Resp: 1083294
Ion Ratio Lower Upper
202 100
200 21.5 17.6 26.4
203 19.2 14.4 21.6





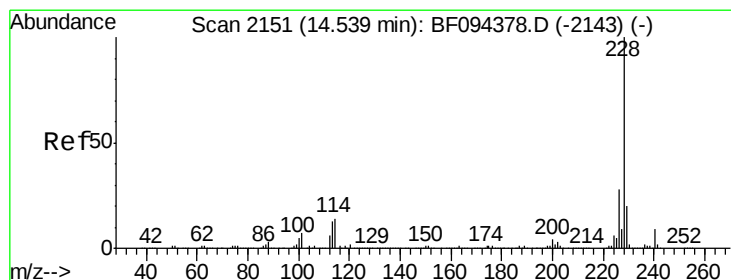
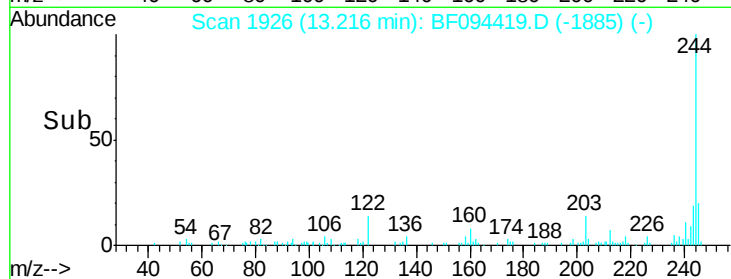
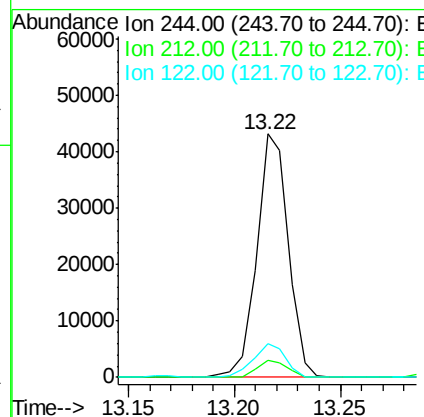
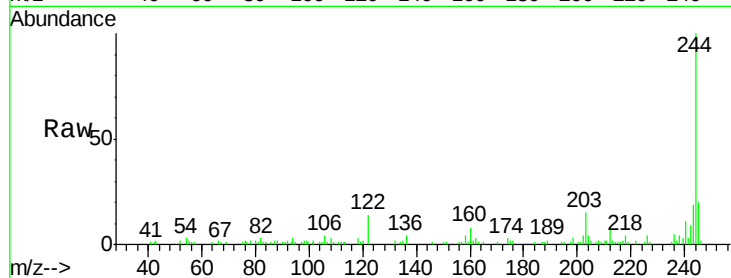
#78
 Terphenyl-d14
 Concen: 3.38 ng
 RT: 13.22 min Scan# 1926
 Delta R.T. -0.06 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Instrument :
 BNA_F
 ClientSampleId :
 AREA-3-COMPDL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	14.0	10.3	15.5

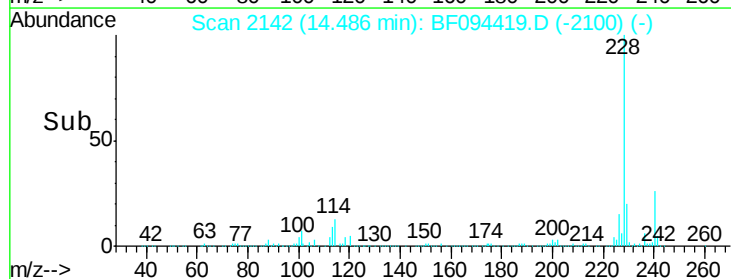
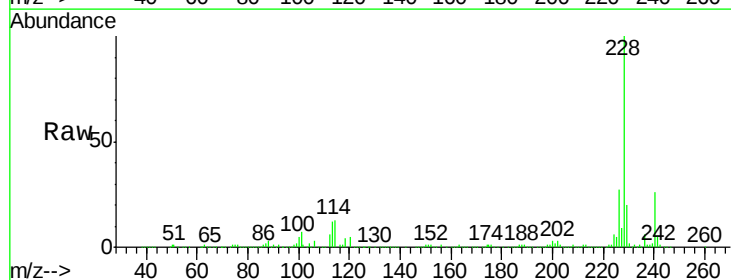
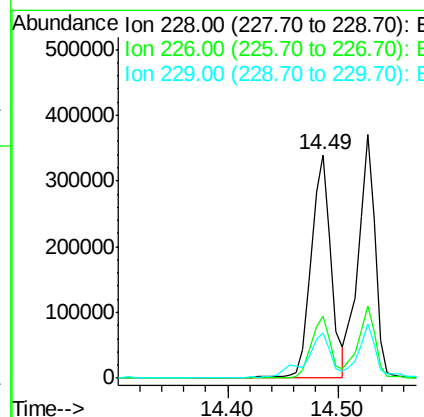
Manual Integrations
 APPROVED

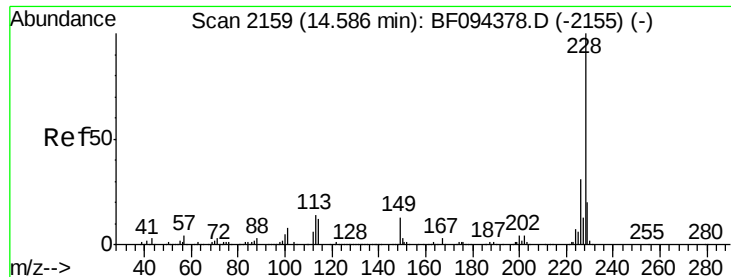
mohammad
 4/14/2017 1:36:28 PM



#80
 Benzo(a)anthracene
 Concen: 24.04 ng
 RT: 14.49 min Scan# 2142
 Delta R.T. -0.05 min
 Lab File: BF094419.D
 Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.6	33.8
229	20.0	16.3	24.5





#82

Chrysene

Concen: 25.14 ng

RT: 14.53 min Scan# 2149

Delta R.T. -0.06 min

Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Instrument :

BNA_F

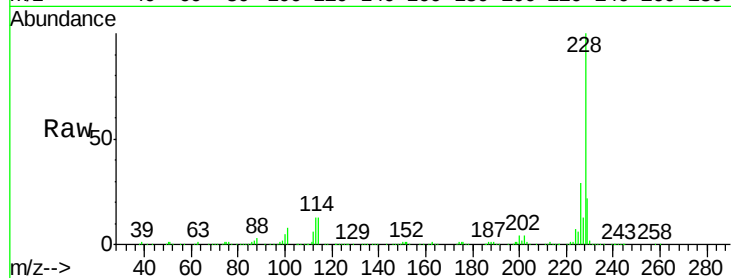
ClientSampleId :

AREA-3-COMPDL

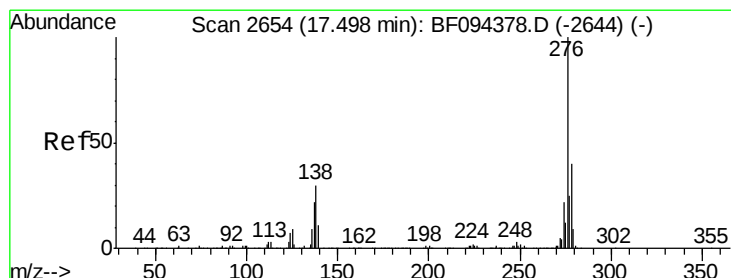
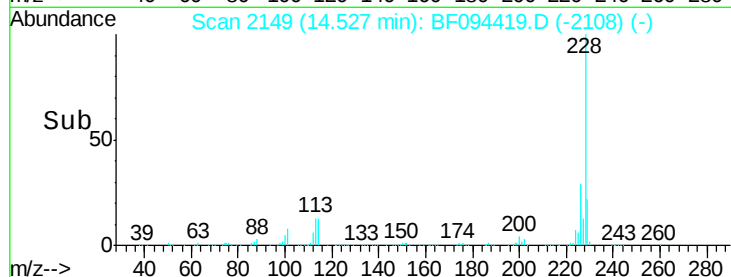
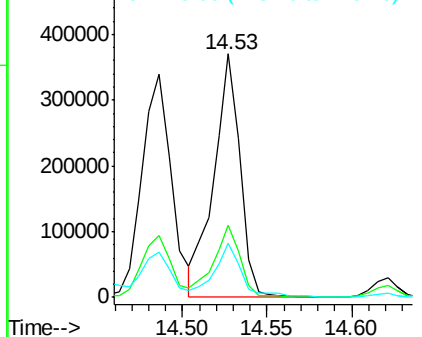
Tgt Ion:	228	Resp:	403026
Ion Ratio	Lower	Upper	
228	100		
226	29.4	24.9	37.3
229	22.0	15.8	23.6

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.61 ng

RT: 17.40 min Scan# 2638

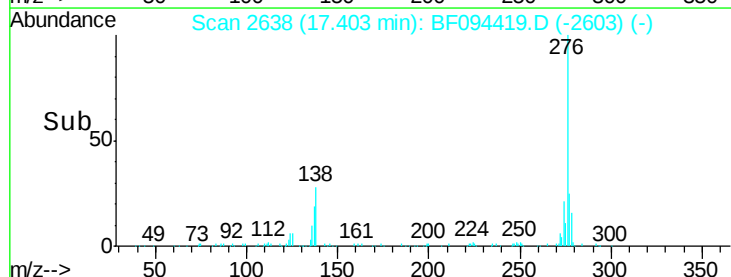
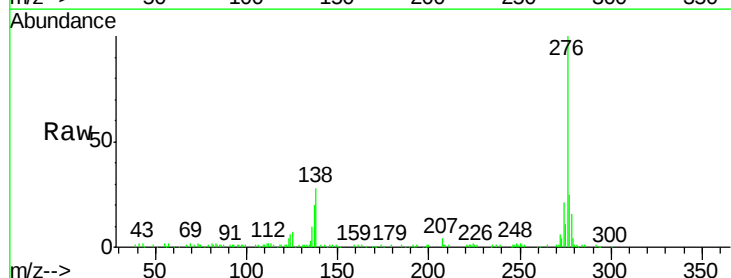
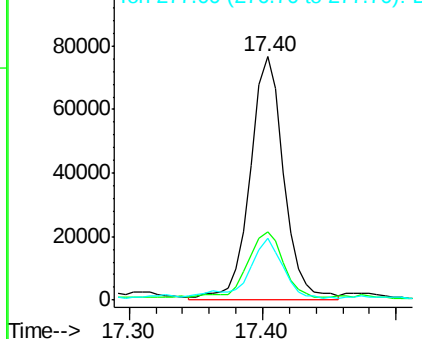
Delta R.T. -0.09 min

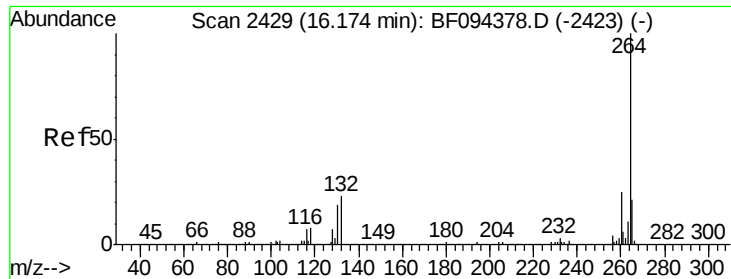
Lab File: BF094419.D

Acq: 14 Apr 2017 8:39

Tgt Ion:	276	Resp:	133494
Ion Ratio	Lower	Upper	
276	100		
138	28.4	27.8	41.6
277	27.7	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





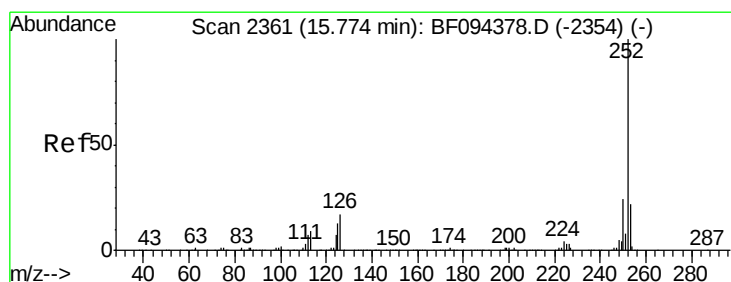
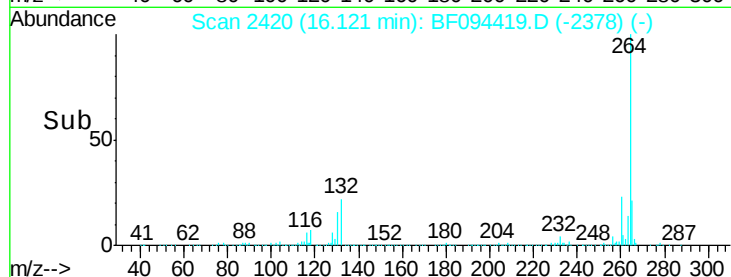
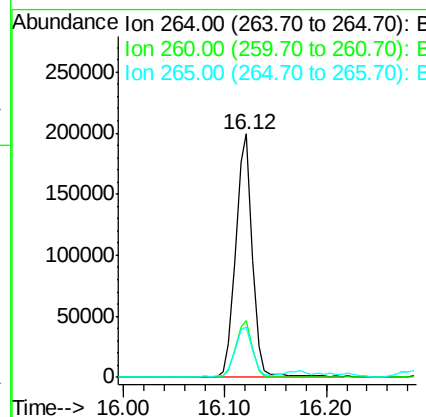
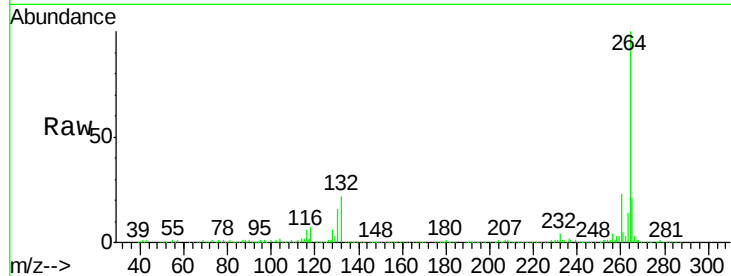
#86
Perylene-d12
Concen: 20.00 ng
RT: 16.12 min Scan# 2420
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPDL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	20.6	17.2	25.8

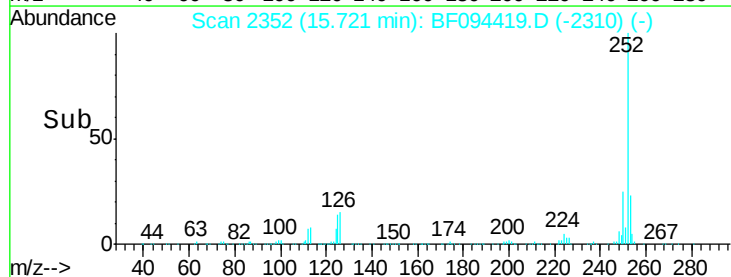
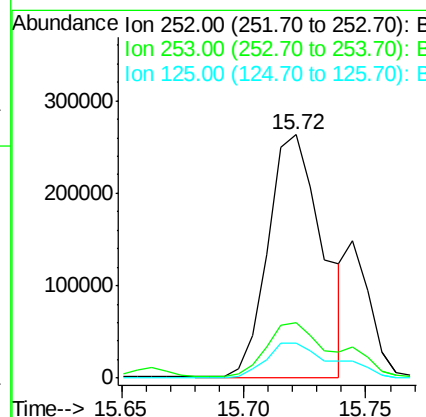
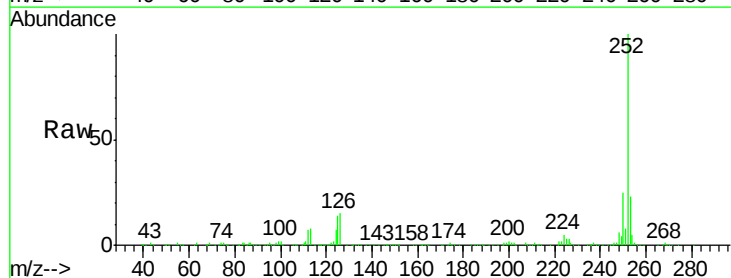
Manual Integrations
APPROVED

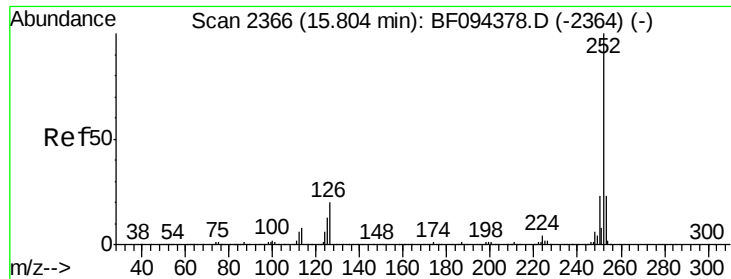
mohammad
4/14/2017 1:36:28 PM



#87
Benzo(b)fluoranthene
Concen: 29.29 ng m
RT: 15.72 min Scan# 2352
Delta R.T. -0.05 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	14.5	9.8	14.8





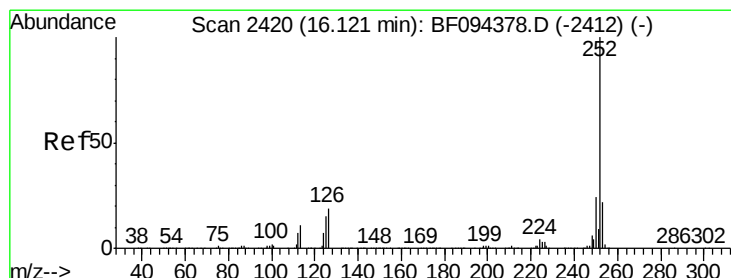
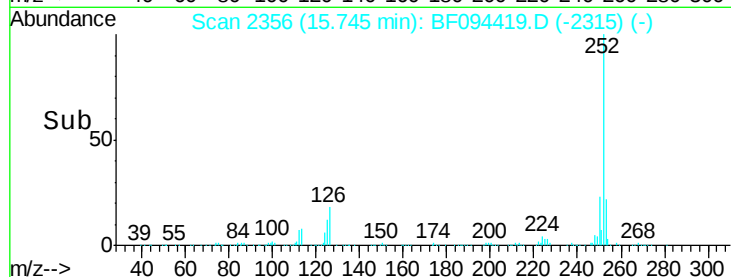
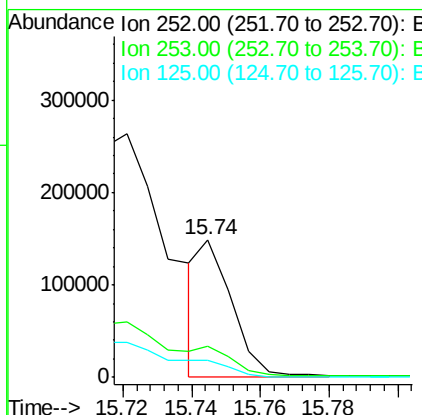
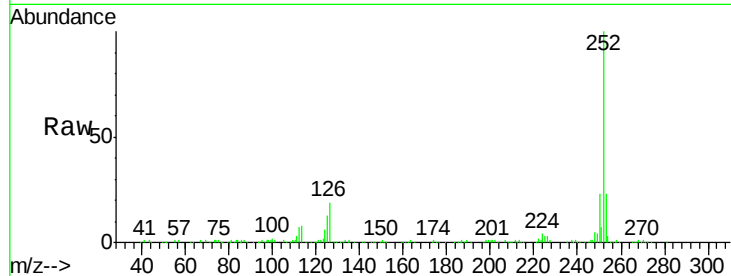
#88
Benzo(k)fluoranthene
Concen: 7.41 ng m
RT: 15.74 min Scan# 2356
Delta R.T. -0.06 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampled :
AREA-3-COMPD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	12.7	13.1	19.7

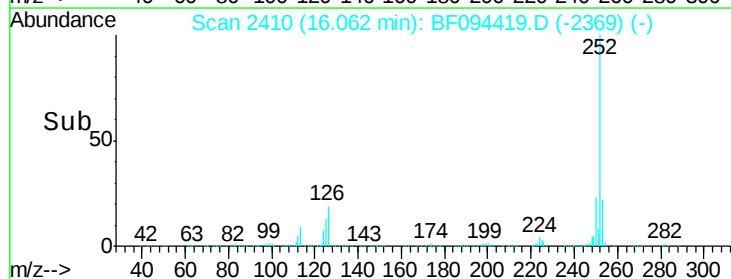
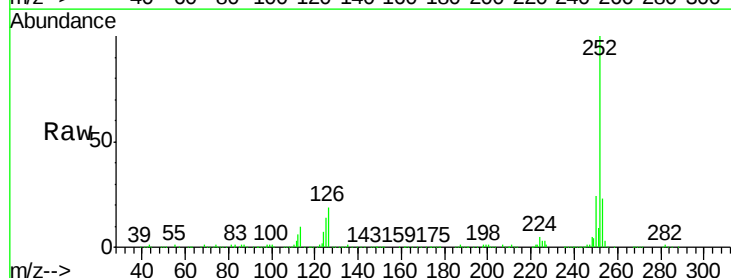
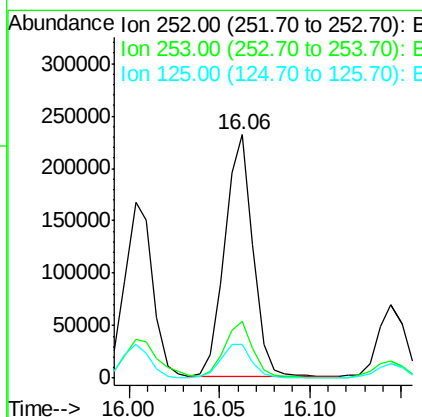
Manual Integrations
APPROVED

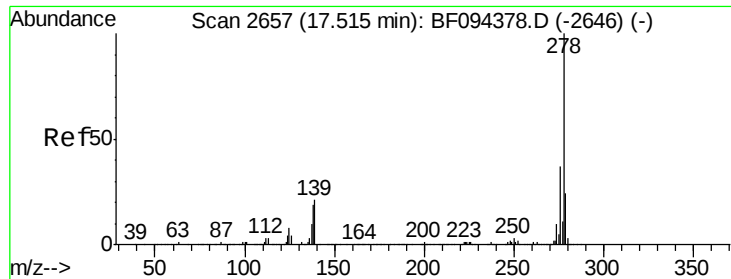
mohammad
4/14/2017 1:36:28 PM



#89
Benzo(a)pyrene
Concen: 19.30 ng
RT: 16.06 min Scan# 2410
Delta R.T. -0.06 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	13.9	11.0	16.4





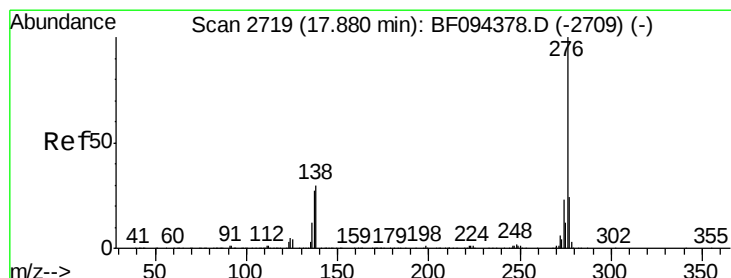
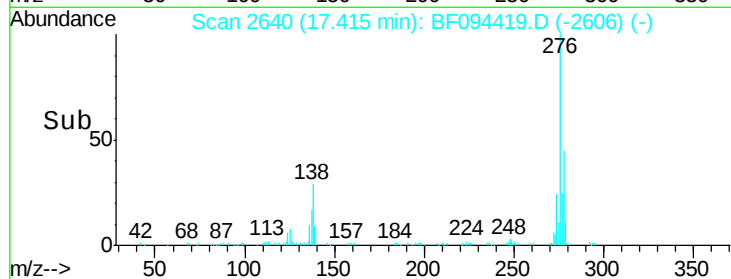
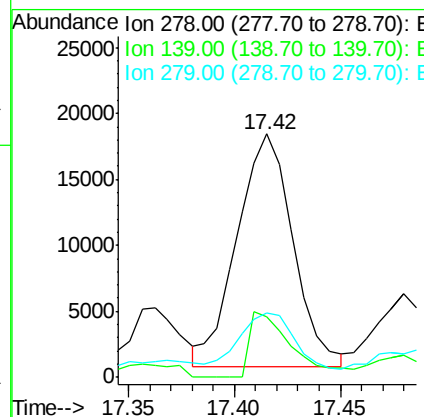
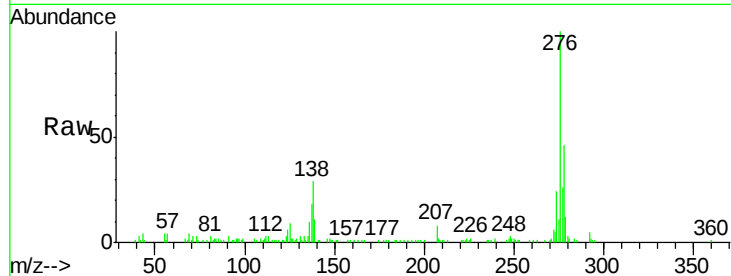
#90
Dibenzo(a,h)anthracene
Concen: 2.98 ng m
RT: 17.42 min Scan# 2640
Delta R.T. -0.10 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Instrument :
BNA_F
ClientSampleId :
AREA-3-COMPDL

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

Manual Integrations
APPROVED

mohammad
4/14/2017 1:36:28 PM



#91
Benzo(g,h,i)perylene
Concen: 11.00 ng
RT: 17.78 min Scan# 2702
Delta R.T. -0.10 min
Lab File: BF094419.D
Acq: 14 Apr 2017 8:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.6	28.0
138	30.9	25.4	38.0

