

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
 Data File : BF077570.D
 Acq On : 4 Mar 2015 3:51
 Operator : TP/IZ
 Sample : G1402-05DL 100X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW44DL

Manual Integrations
 APPROVED

mohammad
 3/4/2015 4:42:17 PM

Quant Time: Mar 04 07:08:58 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 04:46:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.24	152	80968	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	334185	20.00	ng	0.00
38) Acenaphthene-d10	10.99	164	167028	20.00	ng	0.00
63) Phenanthrene-d10	12.83	188	325312	20.00	ng	0.00
75) Chrysene-d12	16.12	240	318097	20.00	ng	0.00
86) Perylene-d12	17.79	264	329507	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	230	0.05	ng	0.00
7) Phenol-d6	6.80	99	261	0.04	ng	0.00
23) Nitrobenzene-d5	7.93	82	1746	0.32	ng	0.00
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	10.16	172	1866	0.17	ng	0.00
78) Terphenyl-d14	14.82	244	2424	0.18	ng	0.00
Target Compounds						
31) Naphthalene	8.84	128	2563578	153.40	ng	Qvalue 96
37) 2-Methylnaphthalene	9.70	142	737560	62.15	ng	98
45) 1,1'-Biphenyl	10.28	154	147322	11.64	ng	99
48) Acenaphthylene	10.81	152	79987	5.09	ng	# 95
51) Acenaphthene	11.03	154	289605	30.89	ng	100
54) Dibenzofuran	11.24	168	33855	2.34	ng	# 89
57) Fluorene	11.67	166	223300m	19.29	ng	
70) Phenanthrene	12.86	178	1117120	59.25	ng	99
71) Anthracene	12.92	178	351239	18.77	ng	100
74) Fluoranthene	14.34	202	465782	22.61	ng	98
77) Pyrene	14.62	202	633260	32.54	ng	99
80) Benzo(a)anthracene	16.10	228	249666m	13.39	ng	
82) Chrysene	16.14	228	194319	11.10	ng	99
85) Indeno(1,2,3-cd)pyrene	19.22	276	65130	3.26	ng	97
87) Benzo(b)fluoranthene	17.37	252	155557m	8.12	ng	
88) Benzo(k)fluoranthene	17.39	252	43483m	2.32	ng	
89) Benzo(a)pyrene	17.73	252	181899	9.97	ng	# 96
91) Benzo(g,h,i)perylene	19.64	276	76705	4.37	ng	94

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

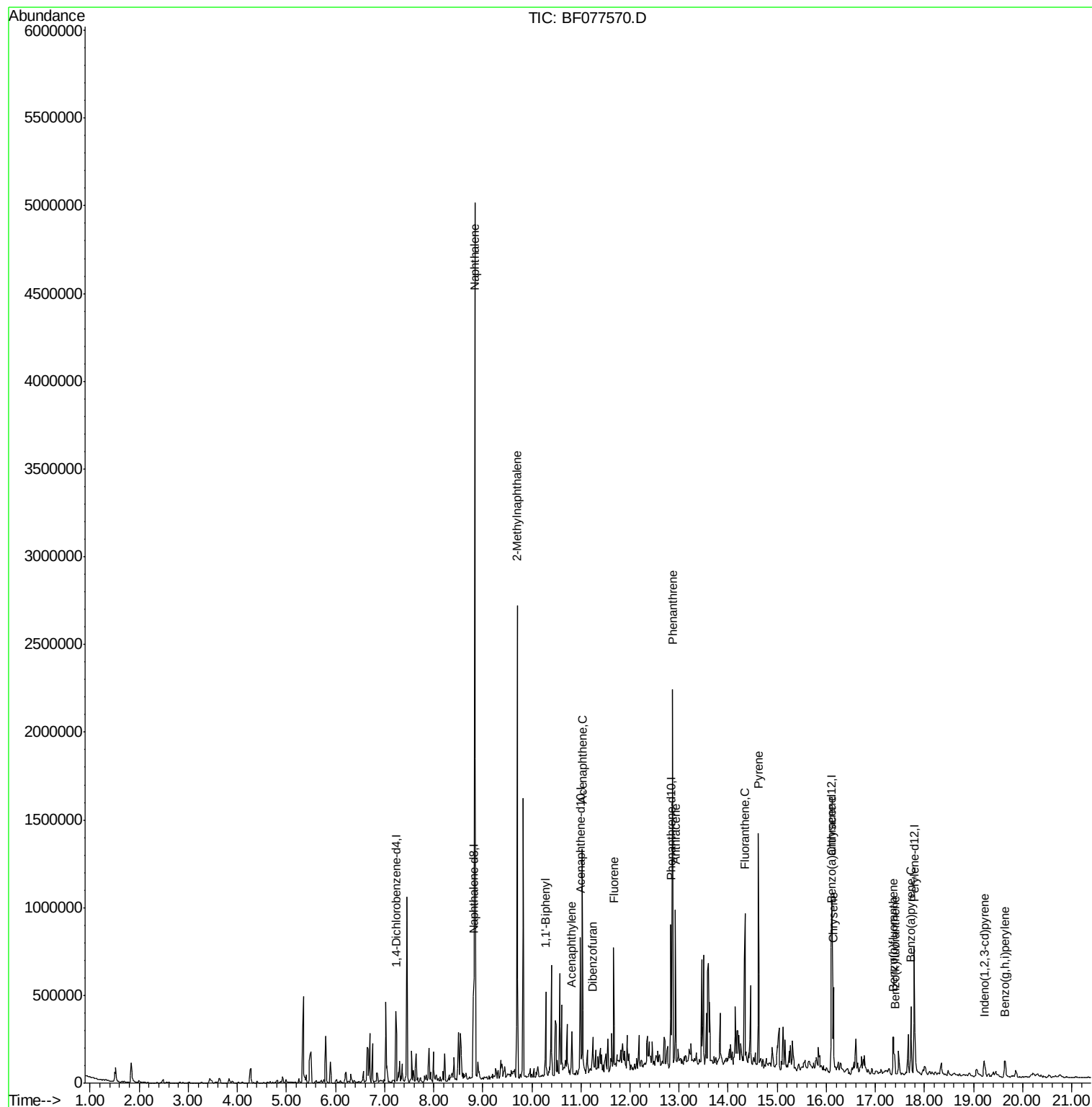
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
Data File : BF077570.D
Acq On : 4 Mar 2015 3:51
Operator : TP/IZ
Sample : G1402-05DL 100X
Misc :
ALS Vial : 27 Sample Multiplier: 1

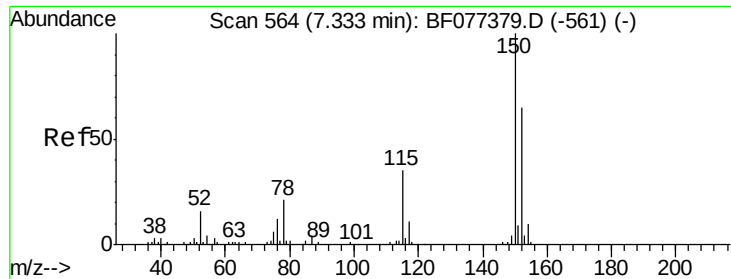
Instrument :
BNA_F
ClientSampleId :
MW44DL

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM

Quant Time: Mar 04 07:08:58 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 04:46:40 2015
Response via : Initial Calibration

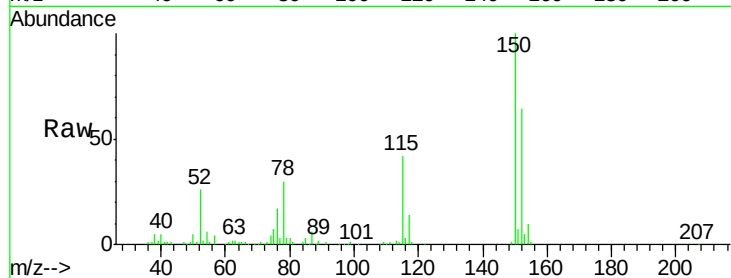




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.24 min Scan# 555
Delta R.T. -0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

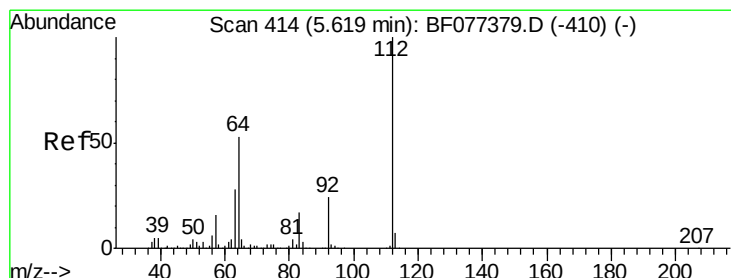
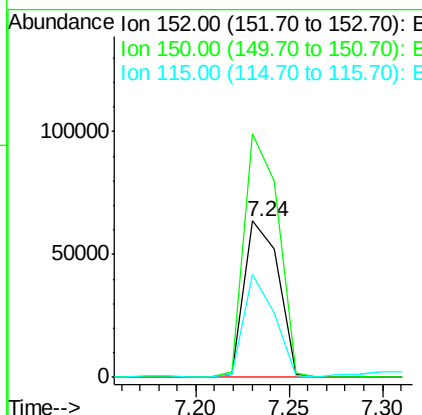
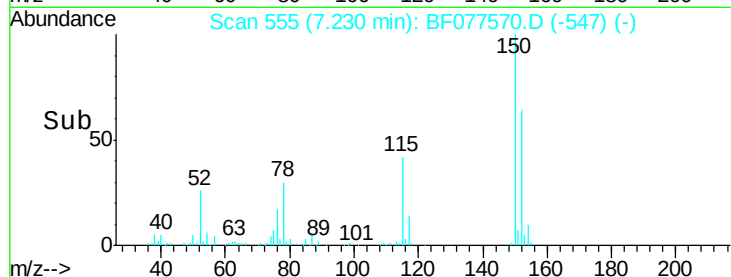
Instrument :
BNA_F
ClientSampleId :
MW44DL



Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.0	186.0
115	66.1	49.4	74.2

Manual Integrations
APPROVED

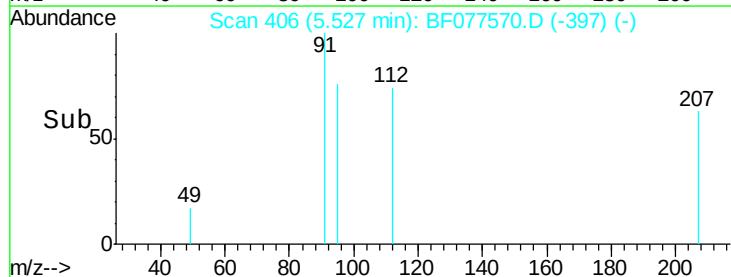
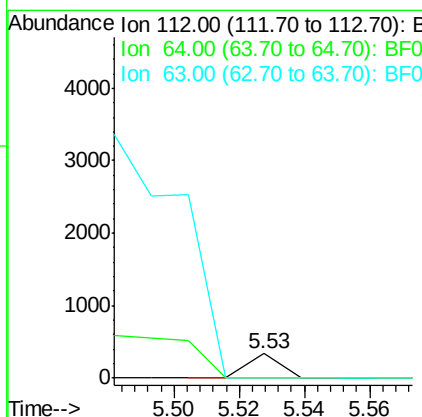
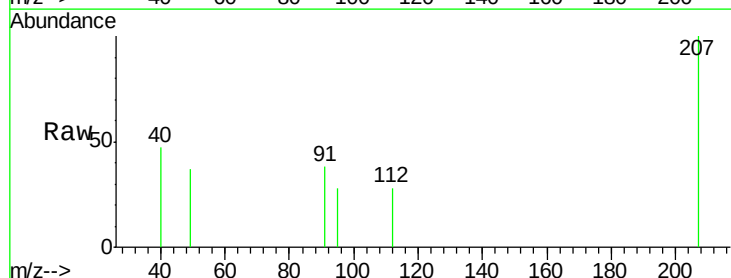
mohammad
3/4/2015 4:42:17 PM

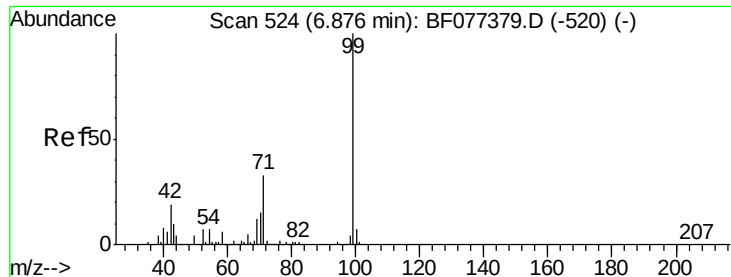


#5

2-Fluorophenol
Concen: 0.05 ng
RT: 5.53 min Scan# 406
Delta R.T. 0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	48.5	72.7#
63	0.0	25.0	37.4#





#7

Phenol-d6

Concen: 0.04 ng

RT: 6.80 min Scan# 517

Delta R.T. -0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Instrument :

BNA_F

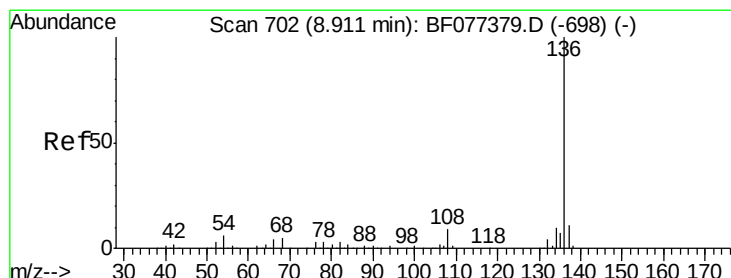
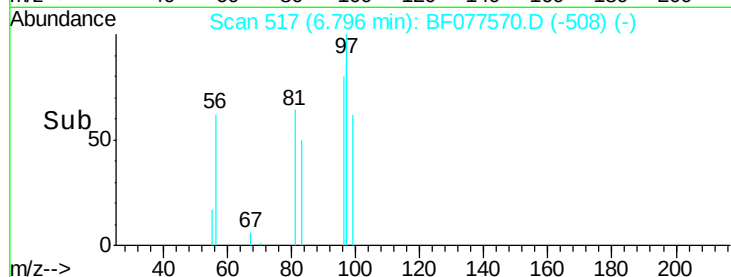
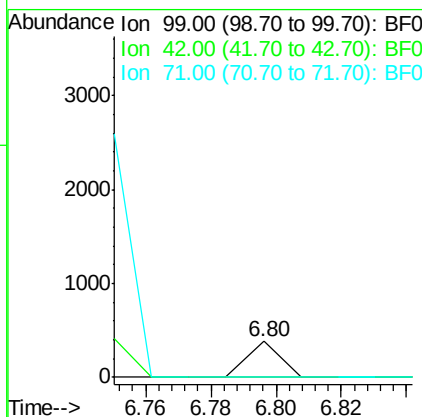
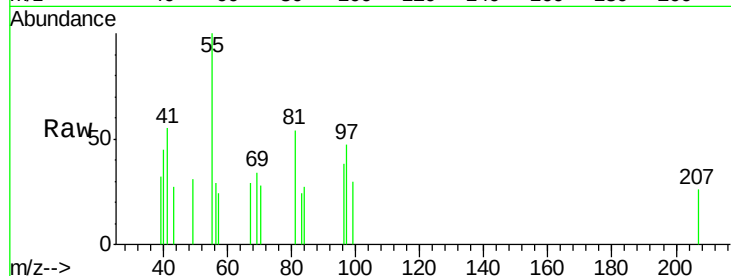
ClientSampleId :

MW44DL

Tgt Ion:	99	Resp:	261
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.2	24.4#
71	0.0	26.7	40.1#

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



#21

Naphthalene-d8

Concen: 20.00 ng

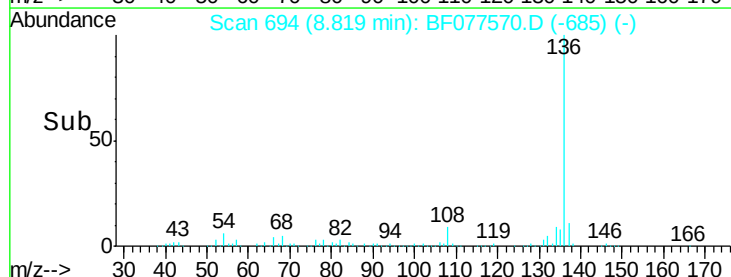
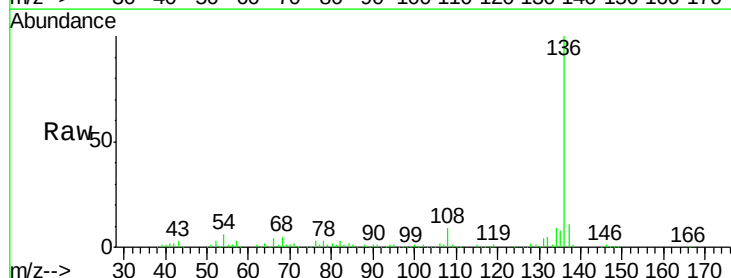
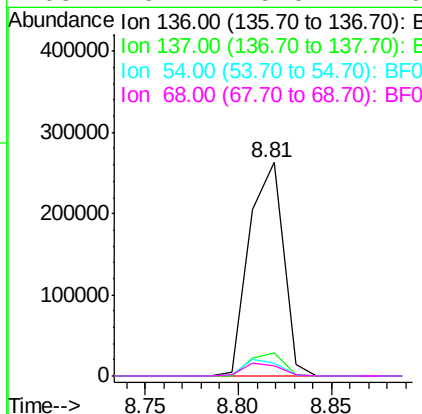
RT: 8.81 min Scan# 694

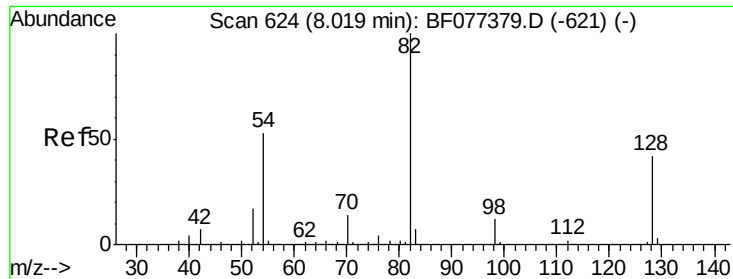
Delta R.T. 0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Tgt Ion:	136	Resp:	334185
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	13.0
54	6.0	6.2	9.4#
68	5.1	5.0	7.6





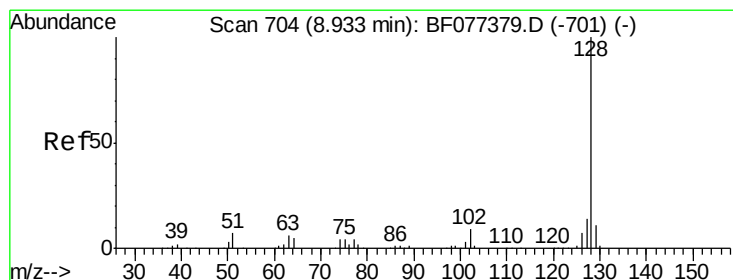
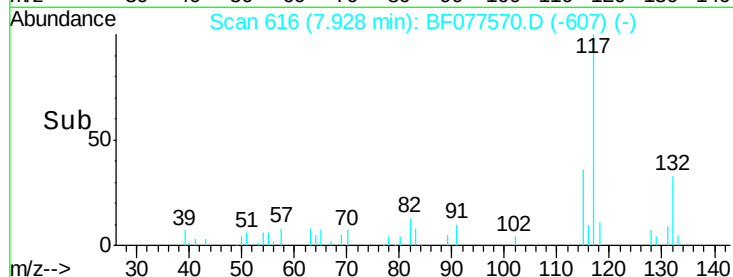
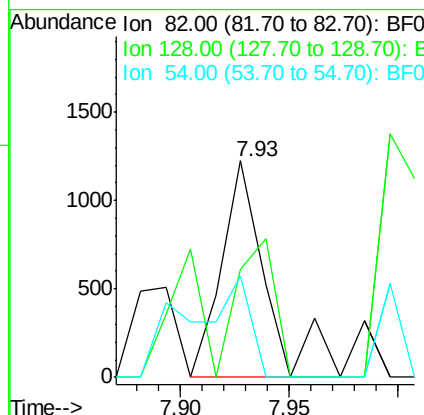
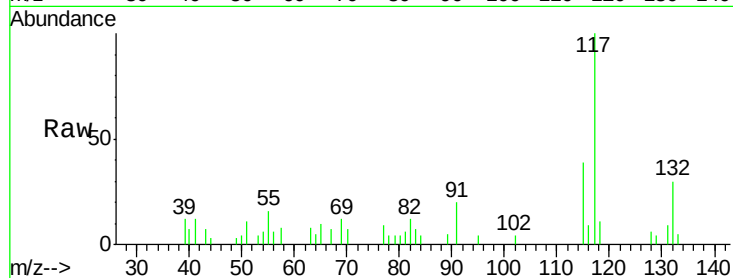
#23
Nitrobenzene-d5
Concen: 0.32 ng
RT: 7.93 min Scan# 616
Delta R.T. 0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Instrument :
BNA_F
ClientSampleId :
MW44DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	50.0	43.8	65.8
54	47.0	36.7	55.1

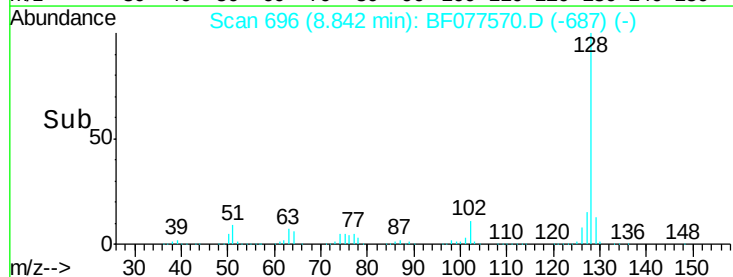
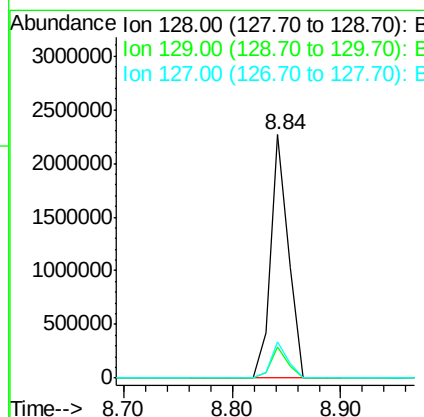
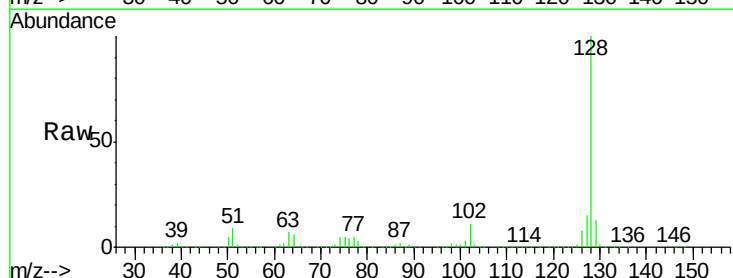
Manual Integrations
APPROVED

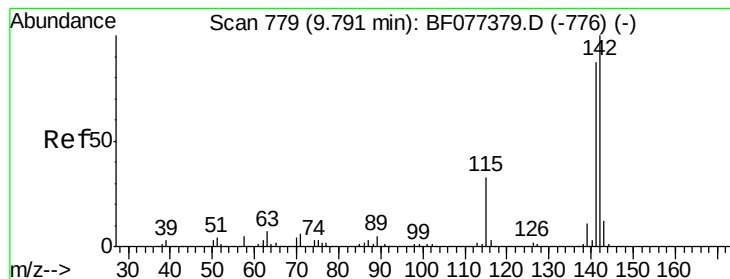
mohammad
3/4/2015 4:42:17 PM



#31
Naphthalene
Concen: 153.40 ng
RT: 8.84 min Scan# 696
Delta R.T. 0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.4	14.0
127	14.8	10.6	15.8





#37

2-Methylnaphthalene

Concen: 62.15 ng

RT: 9.70 min Scan# 771

Delta R.T. 0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Instrument :

BNA_F

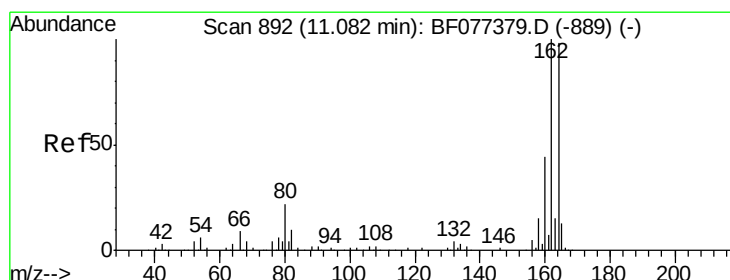
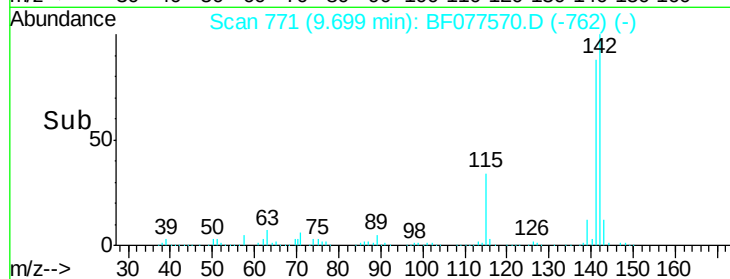
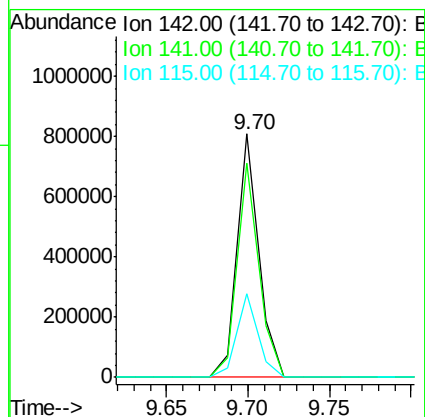
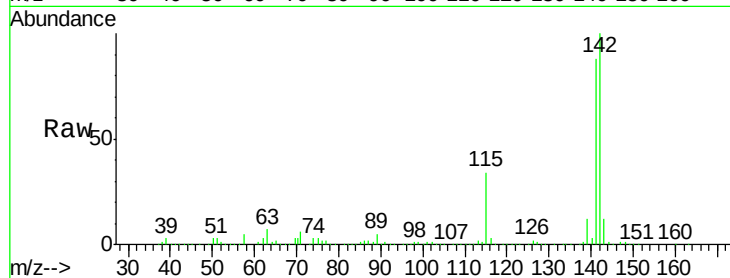
ClientSampleId :

MW44DL

Tgt	Ion	142	Resp	737560
Ion	Ratio	Lower	Upper	
142	100			
141	88.2	70.7	106.1	
115	34.2	24.2	36.4	

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



#38

Acenaphthene-d10

Concen: 20.00 ng

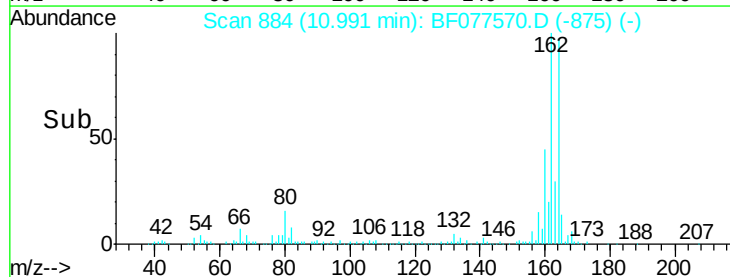
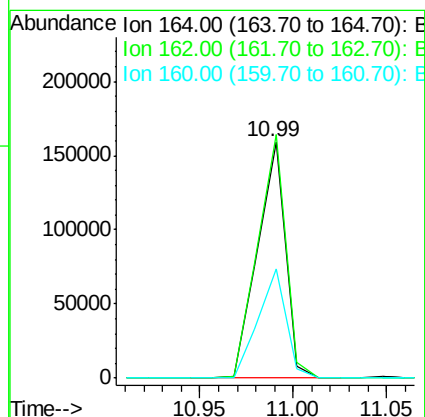
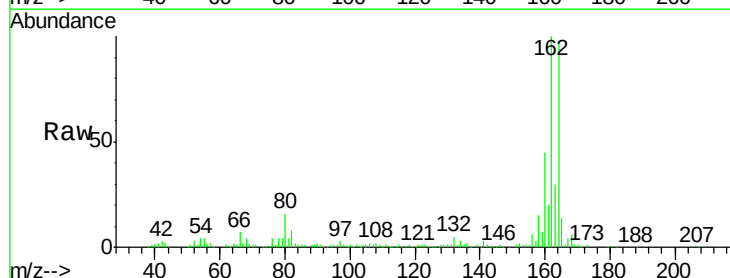
RT: 10.99 min Scan# 884

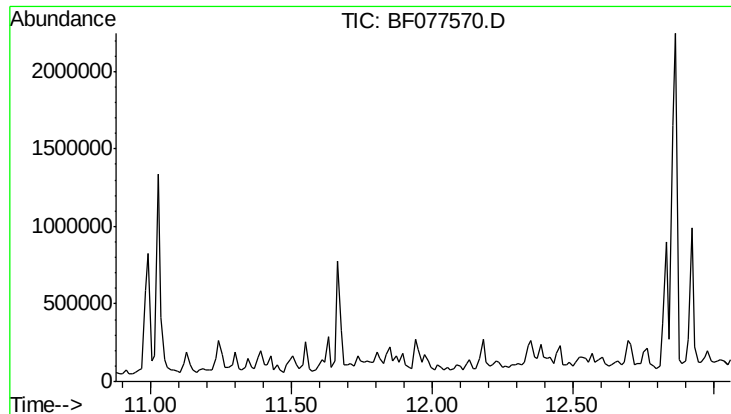
Delta R.T. -0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Tgt	Ion	164	Resp	167028
Ion	Ratio	Lower	Upper	
164	100			
162	103.1	83.2	124.8	
160	46.0	34.6	52.0	





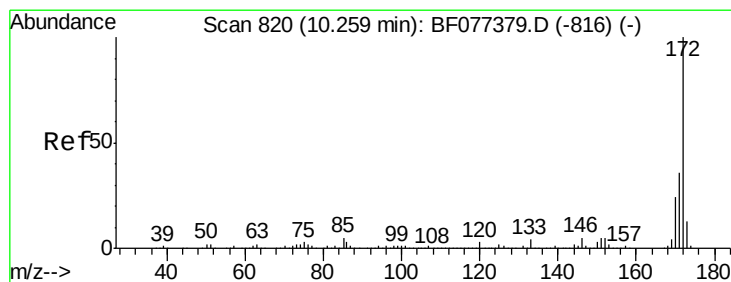
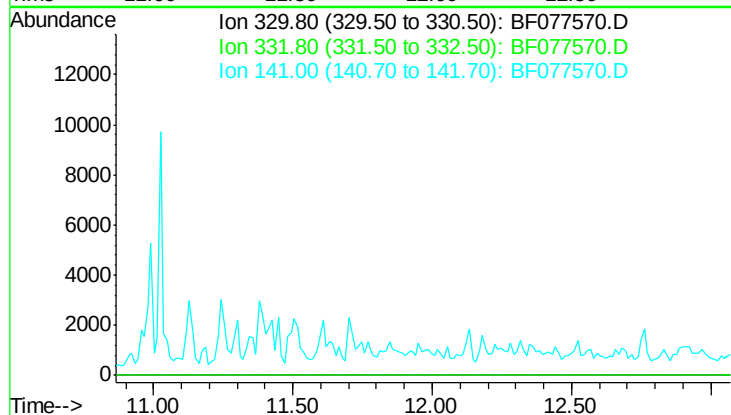
#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 11.97 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Instrument :
 BNA_F
 ClientSampleId :
 MW44DL

Tgt Ion	Exp Ratio
330	100
332	96.8
141	36.0

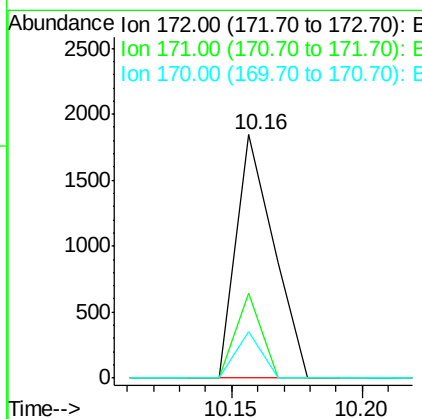
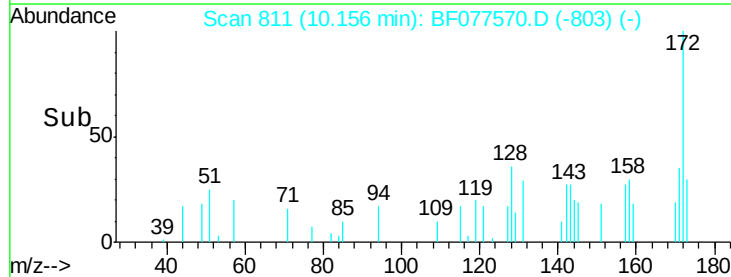
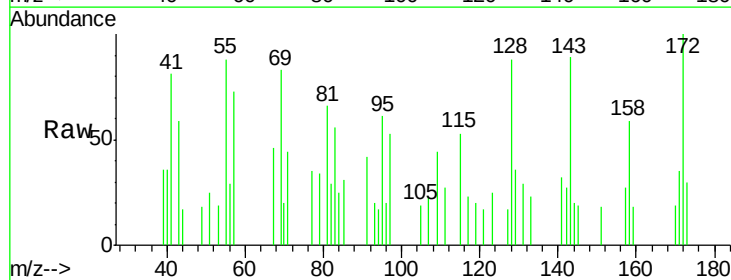
Manual Integrations
 APPROVED

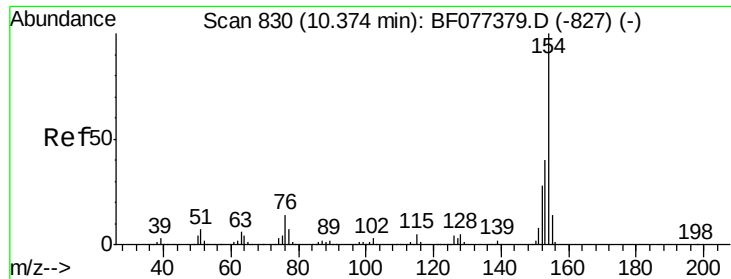
mohammad
 3/4/2015 4:42:17 PM



#44
 2-Fluorobiphenyl
 Concen: 0.17 ng
 RT: 10.16 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1866		
171	34.7		28.9	43.3
170	19.0		19.4	29.2





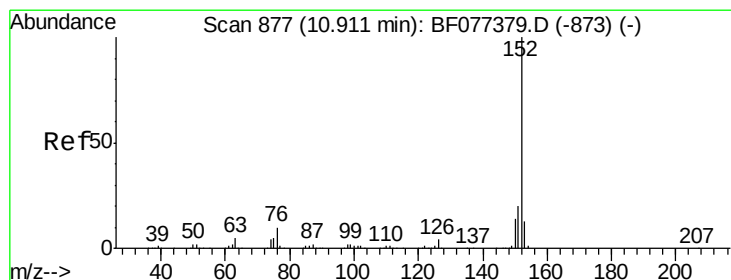
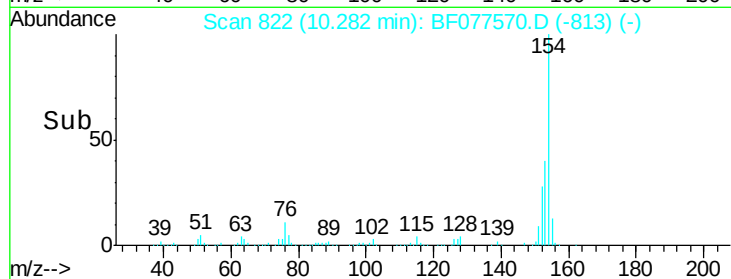
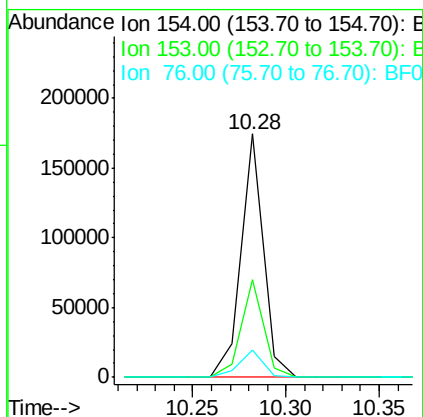
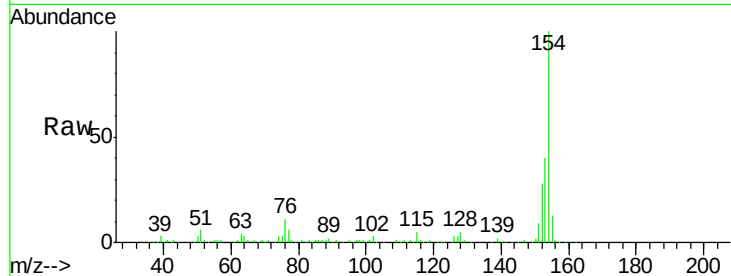
#45
 1,1'-Biphenyl
 Concen: 11.64 ng
 RT: 10.28 min Scan# 822
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Instrument :
 BNA_F
 ClientSampleId :
 MW44DL

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	40.3	20.2	60.2
76	11.3	0.0	29.4

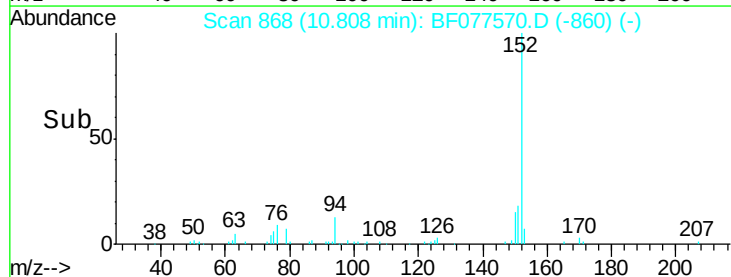
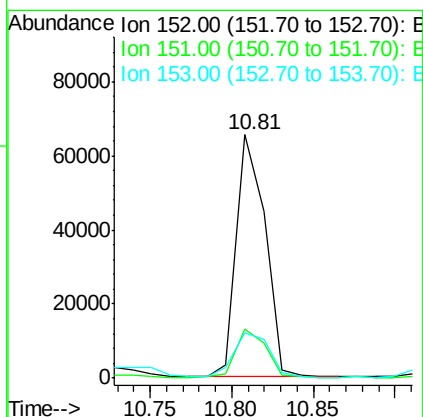
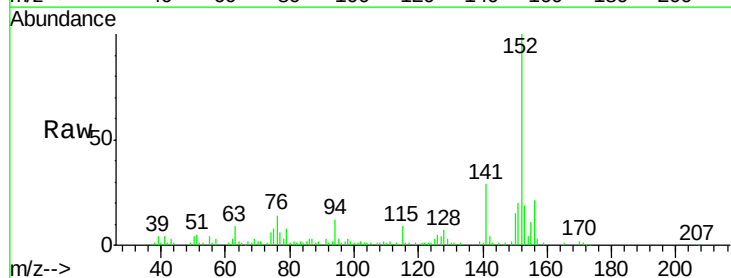
Manual Integrations
 APPROVED

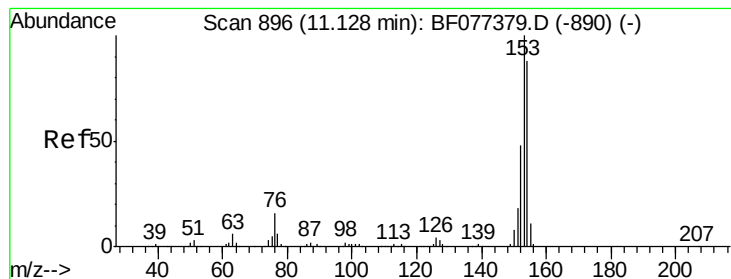
mohammad
 3/4/2015 4:42:17 PM



#48
 Acenaphthylene
 Concen: 5.09 ng
 RT: 10.81 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	20.1	16.1	24.1
153	18.7	10.9	16.3





#51

Acenaphthene

Concen: 30.89 ng

RT: 11.03 min Scan# 887

Delta R.T. -0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Instrument :

BNA_F

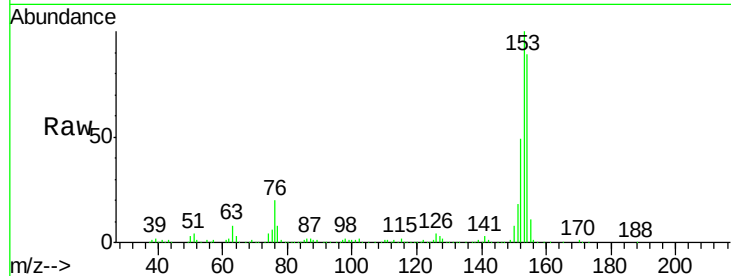
ClientSampleId :

MW44DL

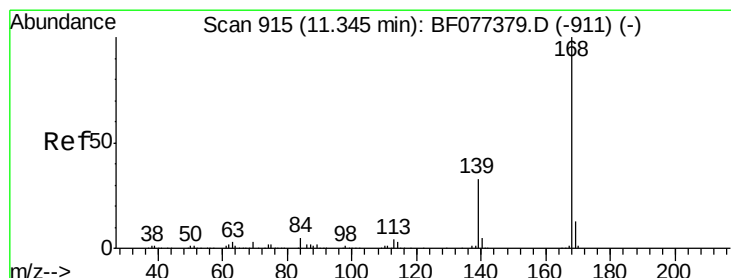
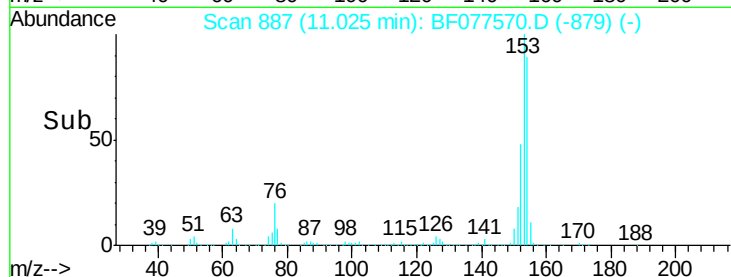
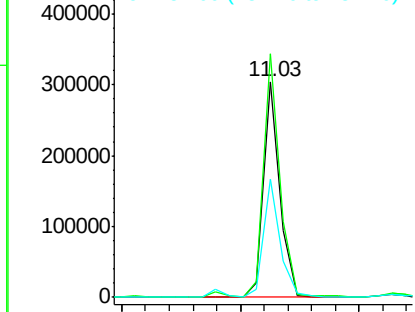
Tgt Ion:	154	Resp:	289605
Ion Ratio	Lower	Upper	
154	100		
153	112.9	90.5	135.7
152	54.8	43.5	65.3

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



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



#54

Dibenzofuran

Concen: 2.34 ng

RT: 11.24 min Scan# 906

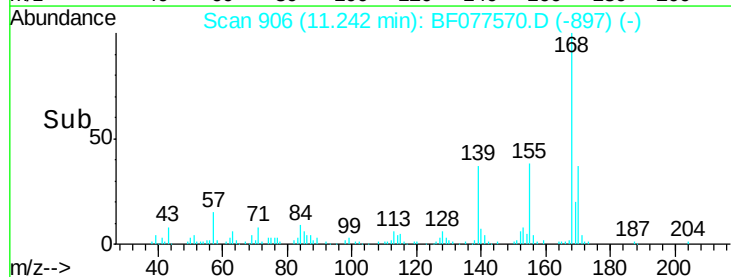
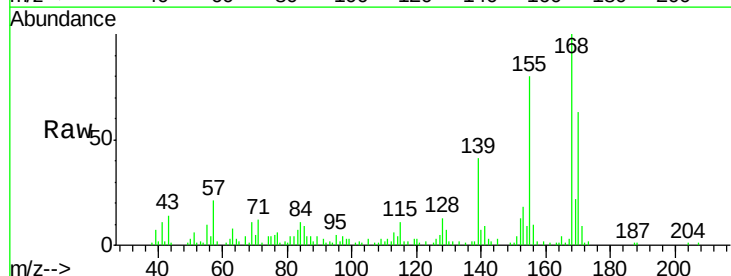
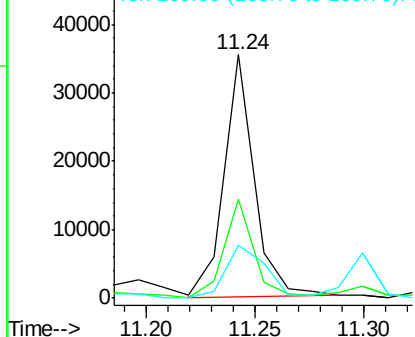
Delta R.T. -0.00 min

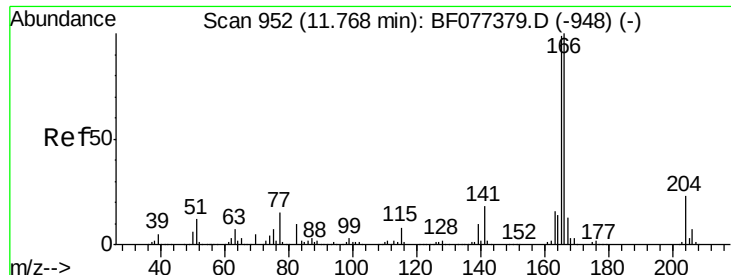
Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Tgt Ion:	168	Resp:	33855
Ion Ratio	Lower	Upper	
168	100		
139	40.9	29.3	43.9
169	21.9	10.9	16.3#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





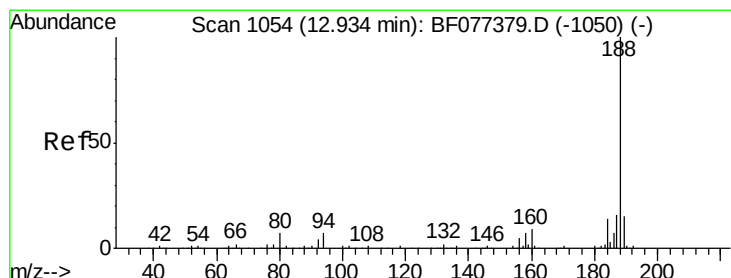
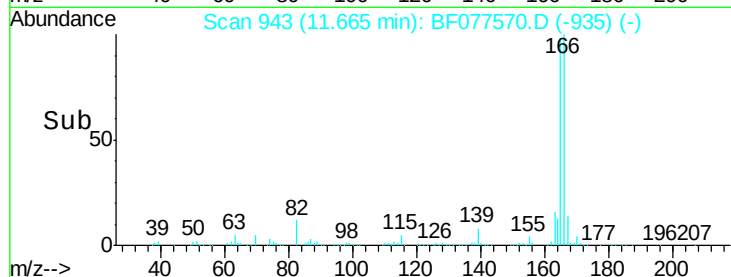
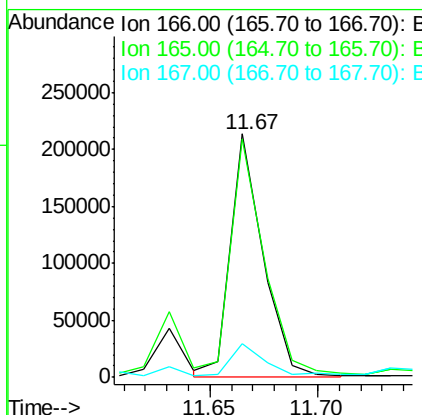
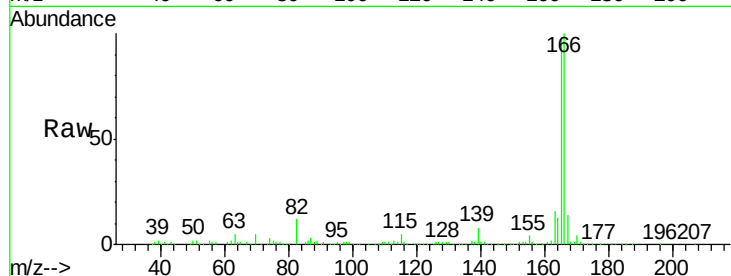
#57
Fluorene
 Concen: 19.29 ng m
 RT: 11.67 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Instrument :
 BNA_F
 ClientSampled :
 MW44DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	223300		
165	97.8	77.6	116.4	
167	14.0	10.6	16.0	

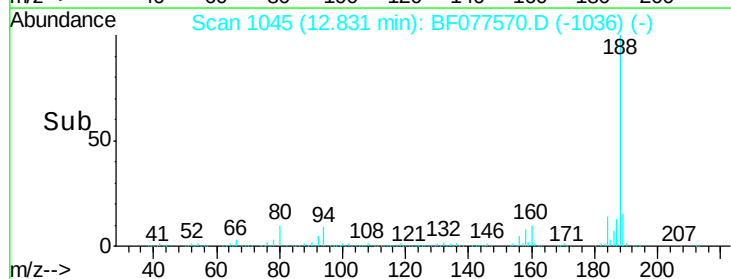
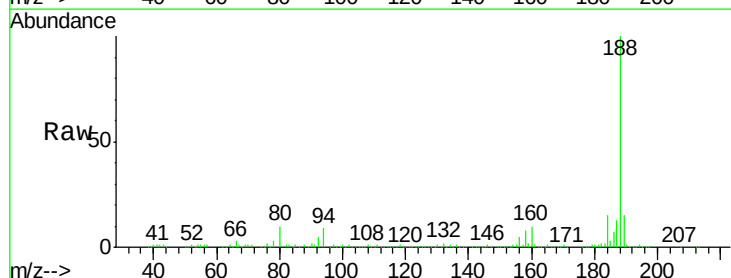
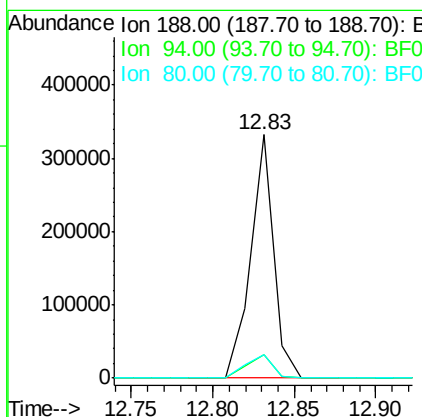
Manual Integrations
 APPROVED

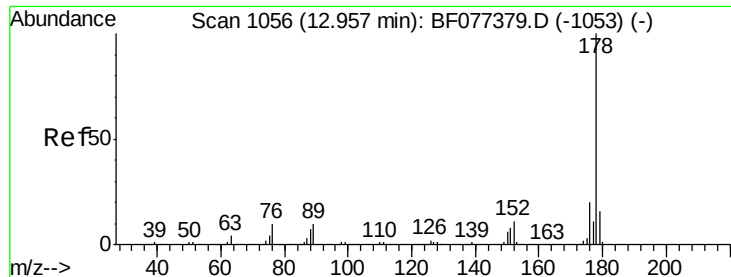
mohammad
 3/4/2015 4:42:17 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.83 min Scan# 1045
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	325312		
94	9.5	7.4	11.2	
80	9.6	8.0	12.0	





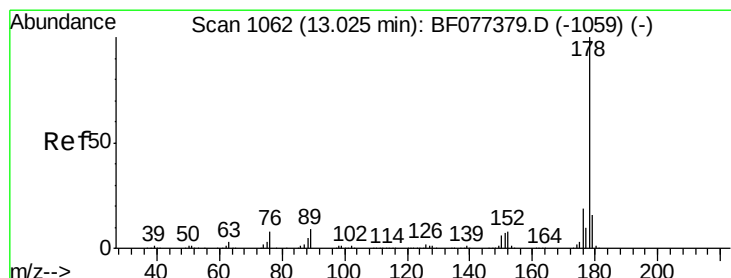
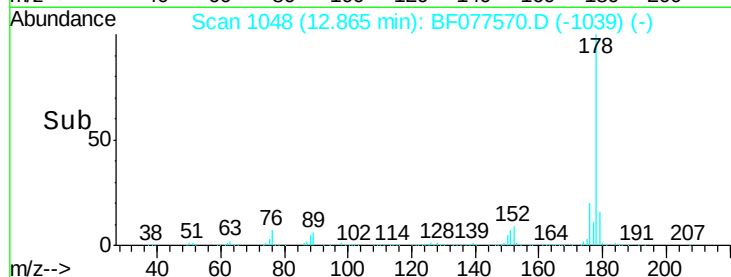
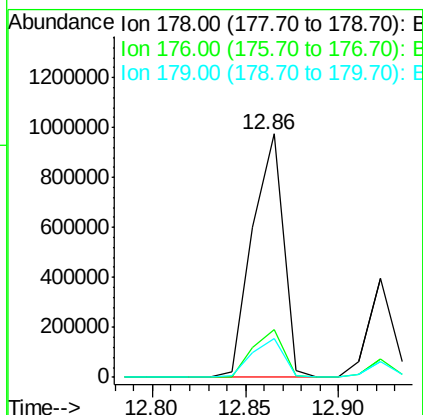
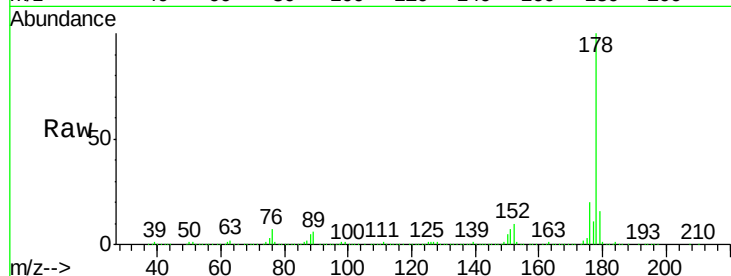
#70
Phenanthrene
Concen: 59.25 ng
RT: 12.86 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Instrument :
BNA_F
ClientSampleId :
MW44DL

Tgt Ion:178 Resp: 1117120
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 16.0 12.2 18.2

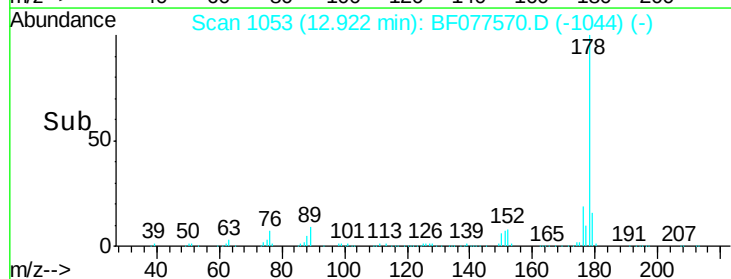
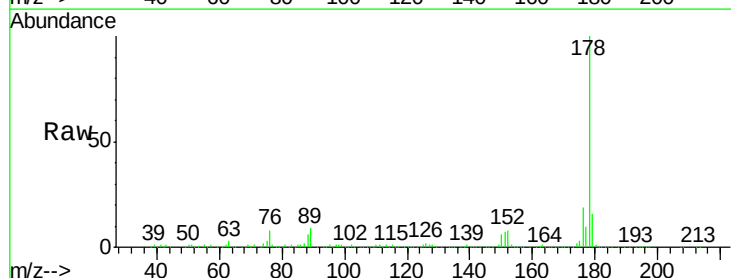
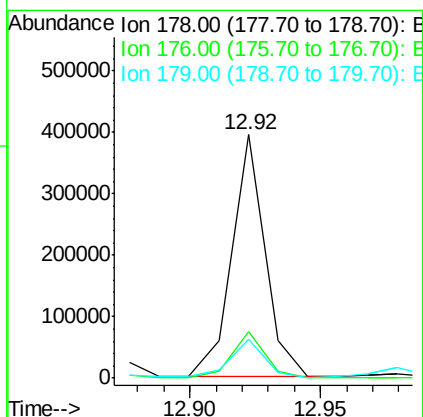
Manual Integrations
APPROVED

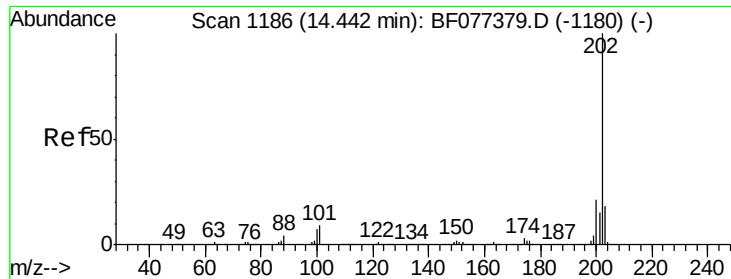
mohammad
3/4/2015 4:42:17 PM



#71
Anthracene
Concen: 18.77 ng
RT: 12.92 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Tgt Ion:178 Resp: 351239
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 16.1 12.9 19.3





#74

Fluoranthene

Concen: 22.61 ng

RT: 14.34 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Instrument :

BNA_F

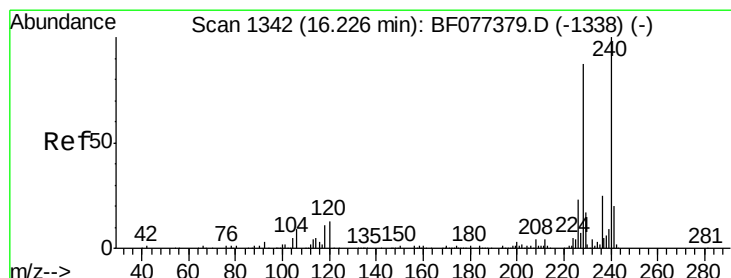
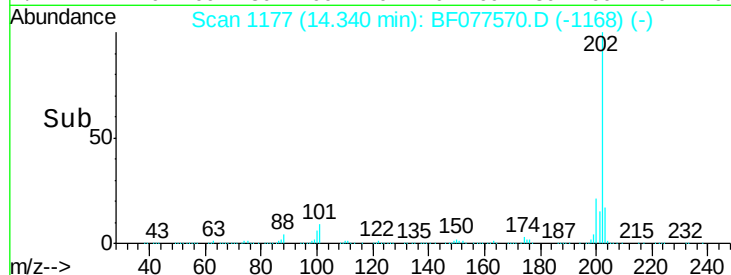
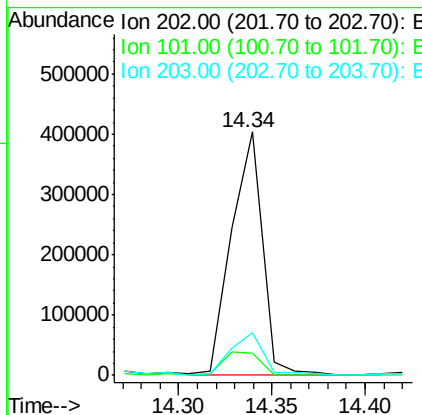
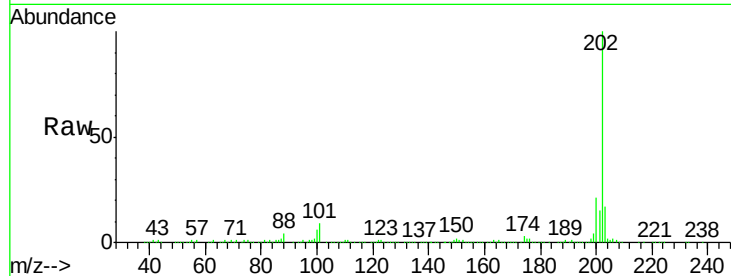
ClientSampleID :

MW44DL

Tgt	Ion	202	Resp:	465782
Ion	Ratio	100	Lower	Upper
202	100			
101	8.9	0.0	30.8	
203	17.4	0.0	37.7	

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



#75

Chrysene-d12

Concen: 20.00 ng

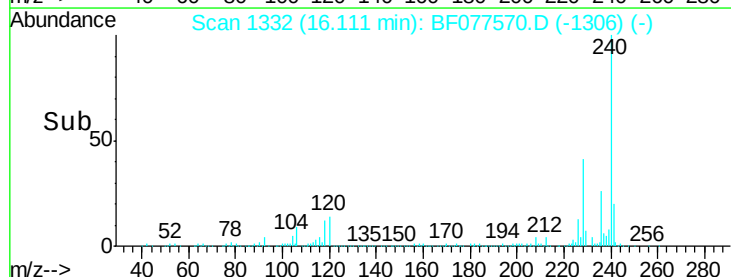
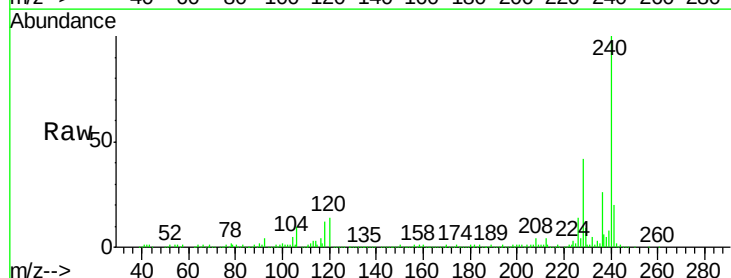
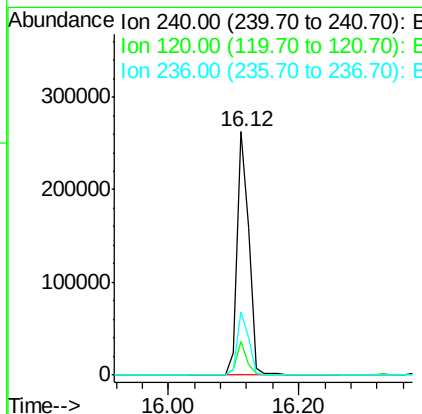
RT: 16.12 min Scan# 1332

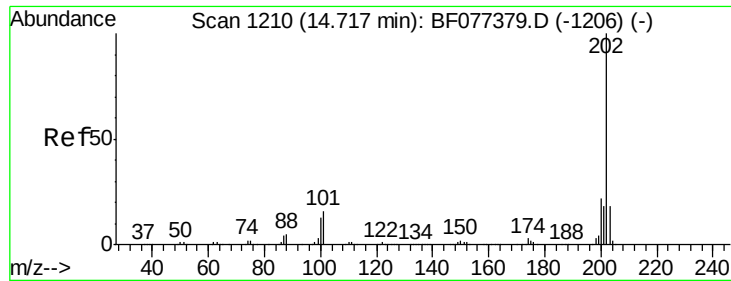
Delta R.T. -0.00 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Tgt	Ion	240	Resp:	318097
Ion	Ratio	100	Lower	Upper
240	100			
120	13.8	8.8	13.2#	
236	25.7	20.7	31.1	





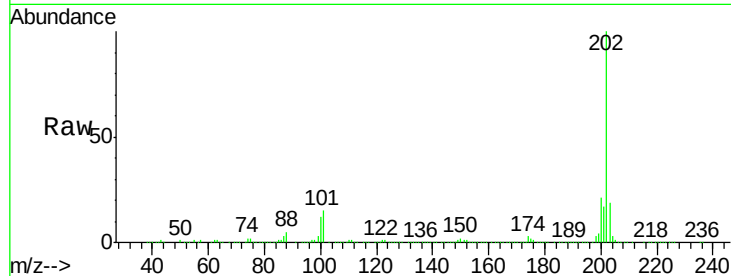
#77
 Pyrene
 Concen: 32.54 ng
 RT: 14.62 min Scan# 1201
 Delta R.T. 0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Instrument :
 BNA_F
 ClientSampleId :
 MW44DL

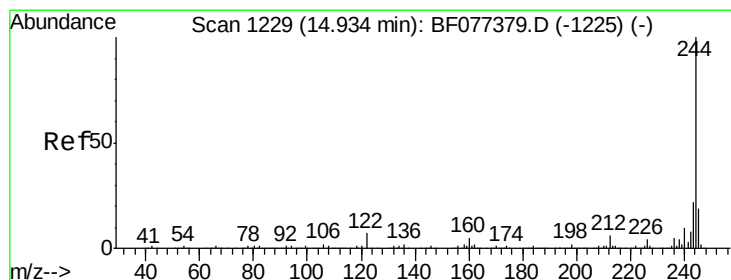
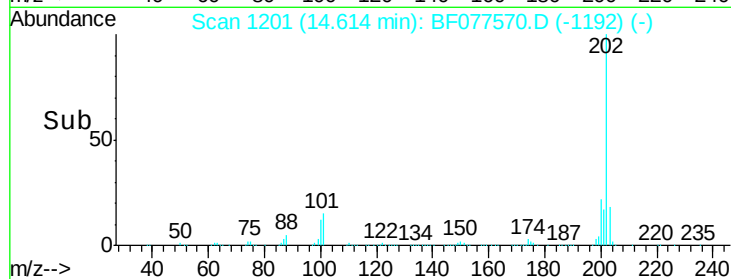
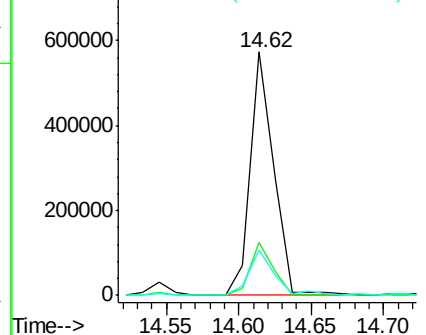
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.5	17.1	25.7
203	18.7	14.2	21.2

Manual Integrations
 APPROVED

mohammad
 3/4/2015 4:42:17 PM

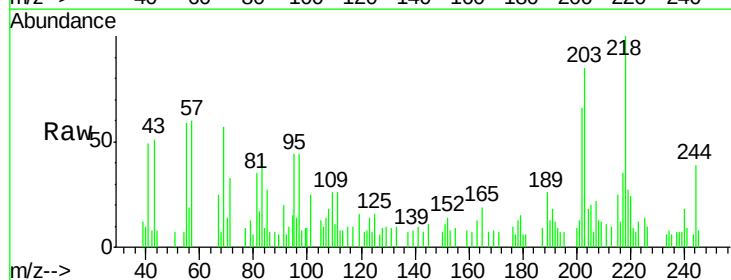


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

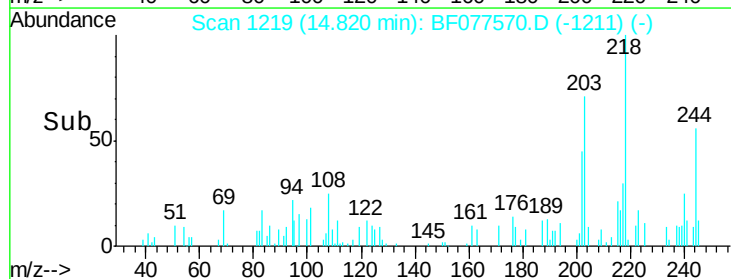
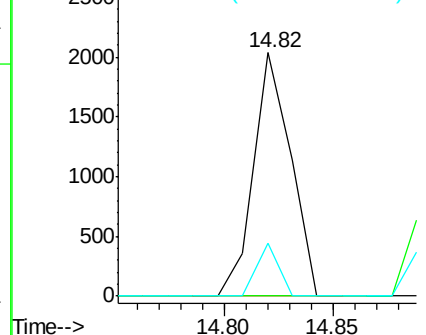


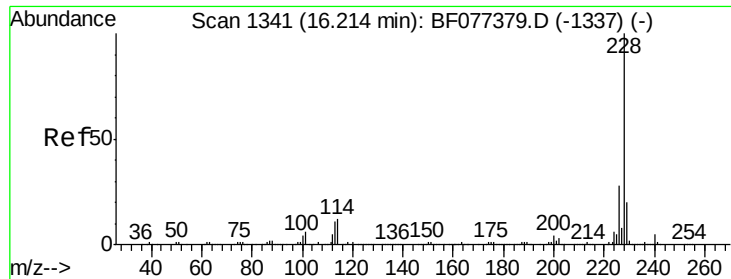
#78
 Terphenyl-d14
 Concen: 0.18 ng
 RT: 14.82 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	0.0	5.2	7.8#
122	21.7	7.8	11.8#



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





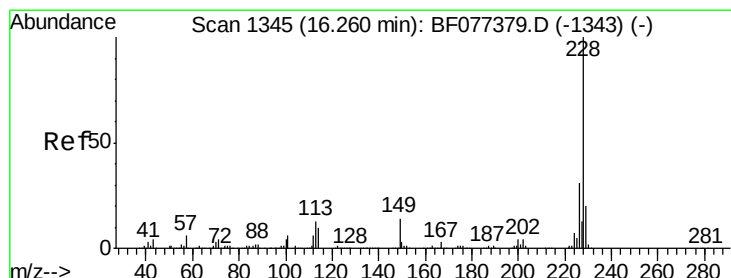
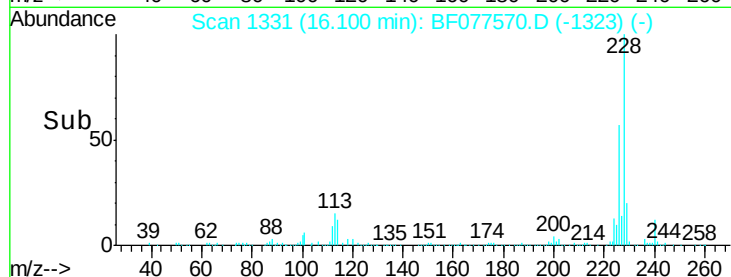
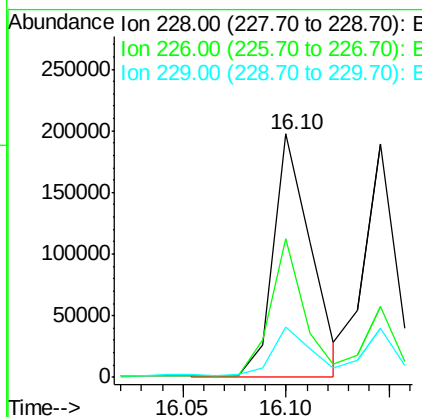
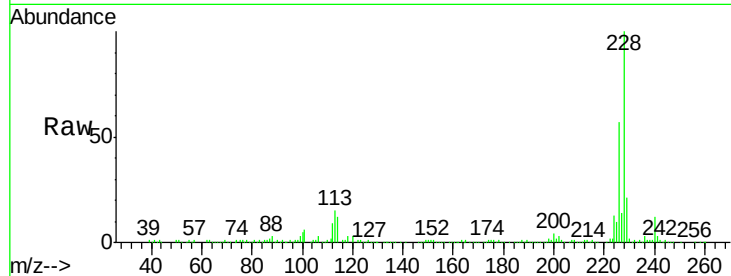
#80
Benzo(a)anthracene
Concen: 13.39 ng m
RT: 16.10 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Instrument :
BNA_F
ClientSampleId :
MW44DL

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	249666		
226	57.1	22.0	33.0#	
229	20.6	15.8	23.8	

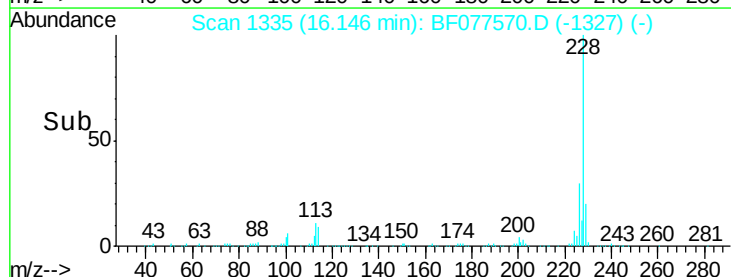
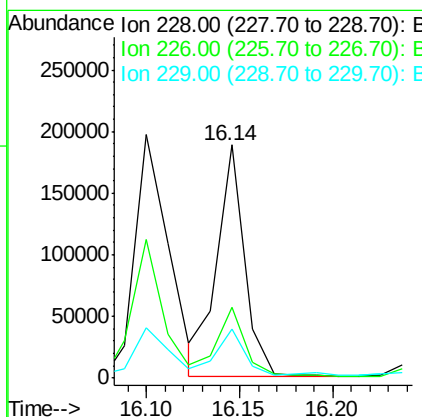
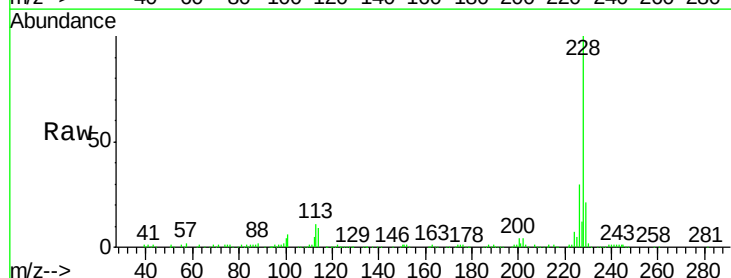
Manual Integrations
APPROVED

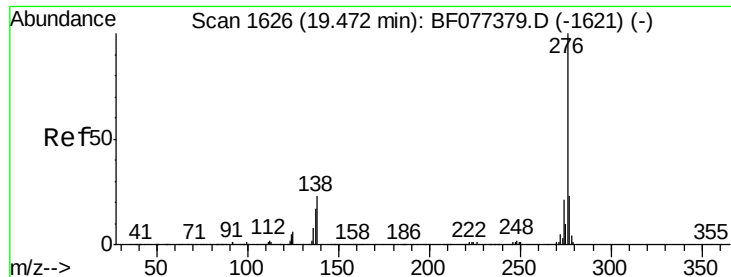
mohammad
3/4/2015 4:42:17 PM



#82
Chrysene
Concen: 11.10 ng
RT: 16.14 min Scan# 1335
Delta R.T. -0.01 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	194319		
226	30.2	24.9	37.3	
229	21.0	16.4	24.6	





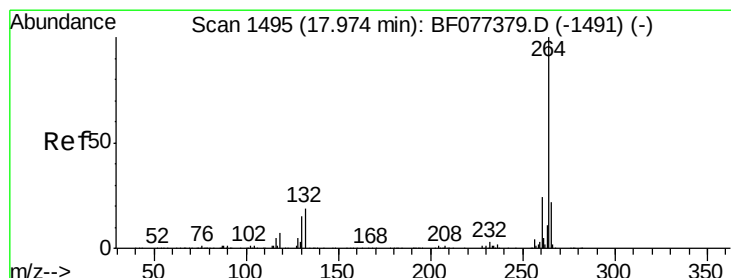
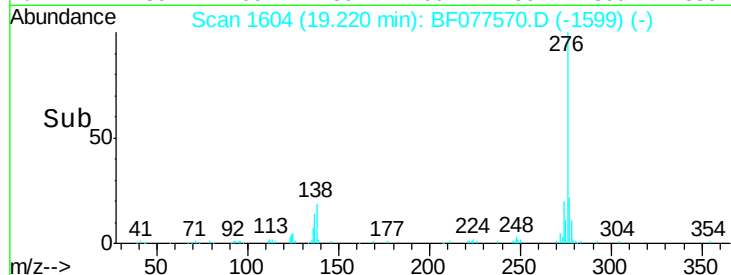
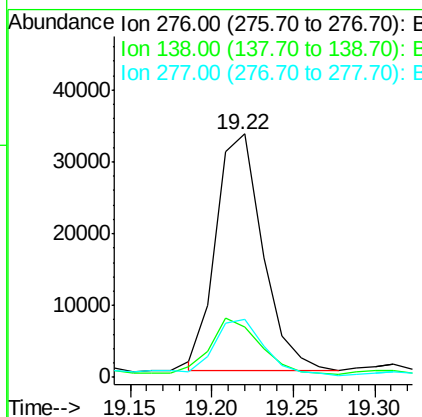
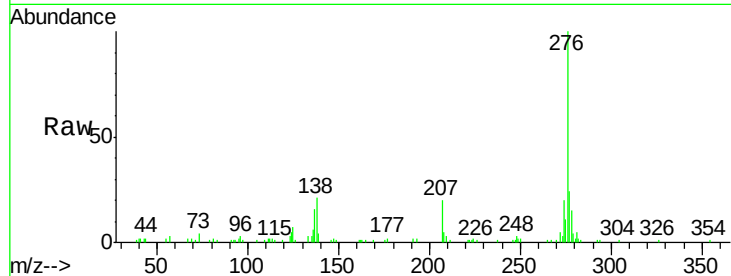
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.26 ng
 RT: 19.22 min Scan# 1604
 Delta R.T. -0.05 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Instrument :
 BNA_F
 ClientSampleId :
 MW44DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.7	21.2	31.8
277	24.9	20.0	30.0

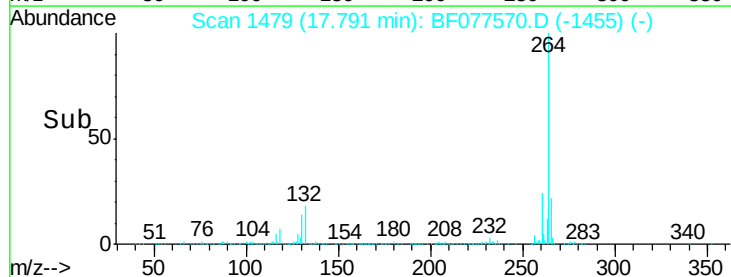
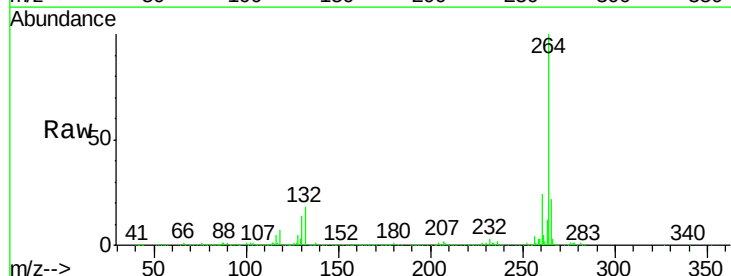
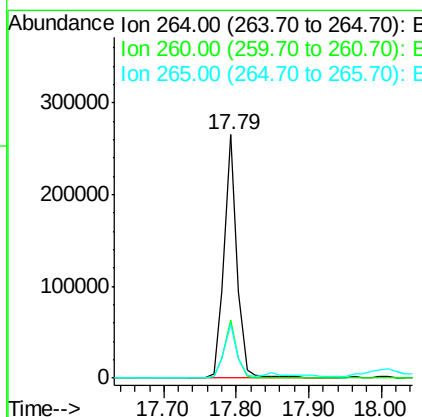
Manual Integrations
 APPROVED

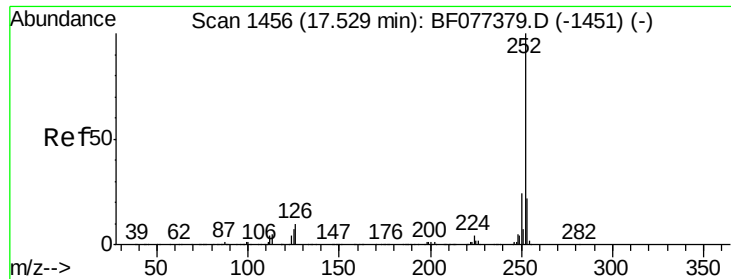
mohammad
 3/4/2015 4:42:17 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.79 min Scan# 1479
 Delta R.T. -0.03 min
 Lab File: BF077570.D
 Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.3	28.9
265	22.3	16.8	25.2





#87

Benzo(b)fluoranthene

Concen: 8.12 ng m

RT: 17.37 min Scan# 1442

Delta R.T. -0.02 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Instrument :

BNA_F

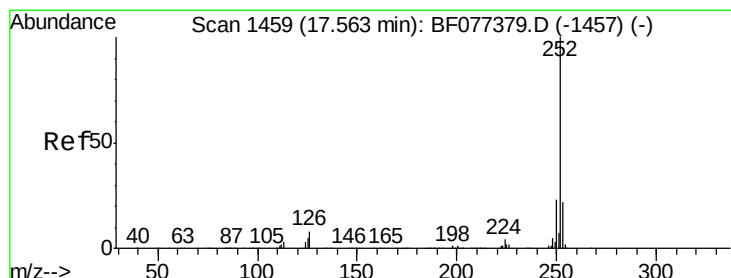
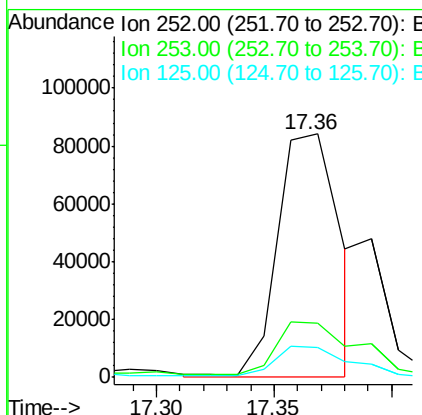
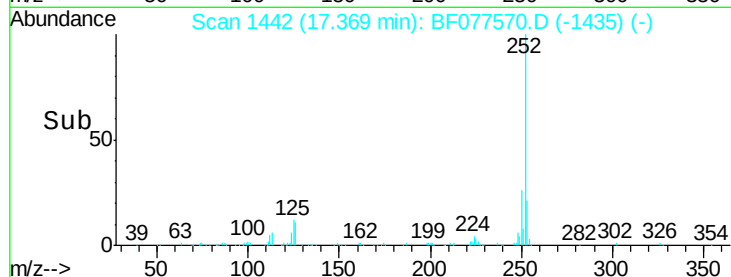
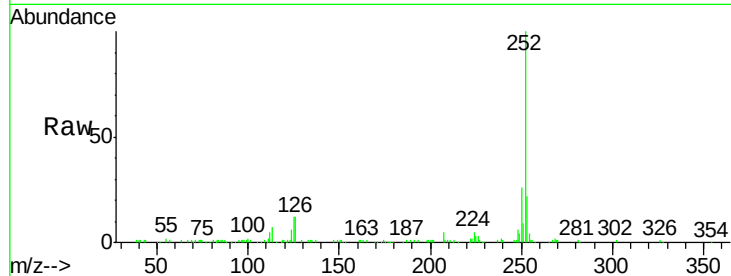
ClientSampleId :

MW44DL

Tgt Ion:	252	Resp:	155557
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.6	26.4
125	12.3	5.4	8.2#

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



#88

Benzo(k)fluoranthene

Concen: 2.32 ng m

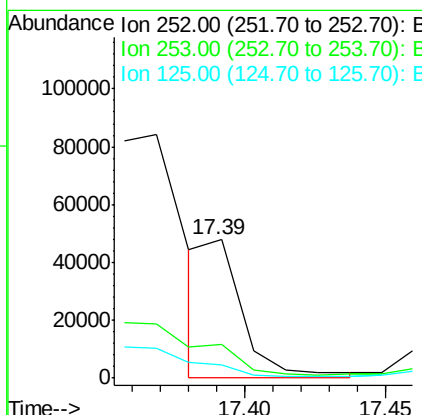
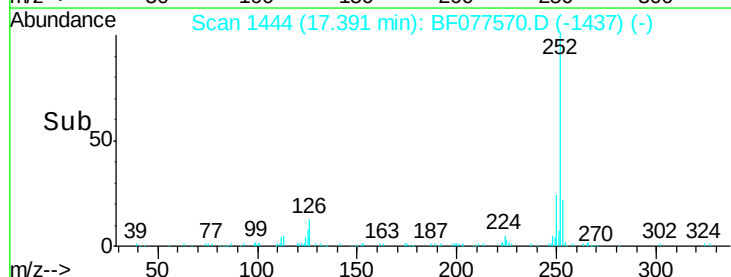
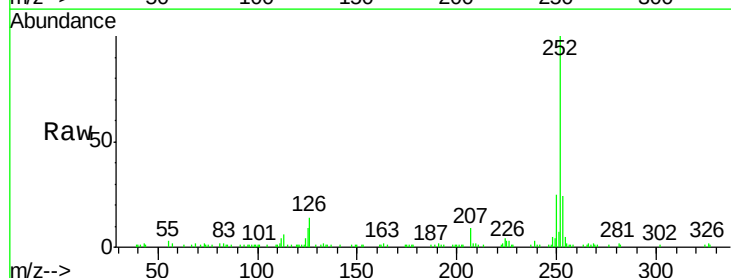
RT: 17.39 min Scan# 1444

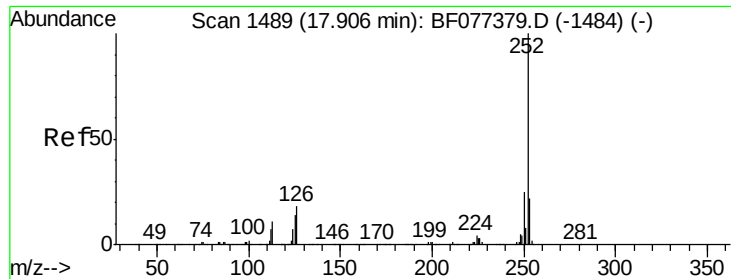
Delta R.T. -0.02 min

Lab File: BF077570.D

Acq: 4 Mar 2015 3:51

Tgt Ion:	252	Resp:	43483
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.1	27.1
125	9.3	10.1	15.1#





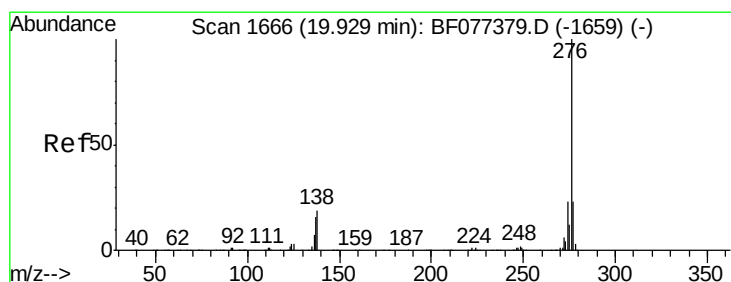
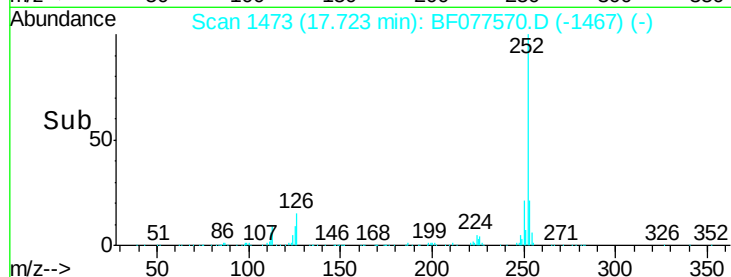
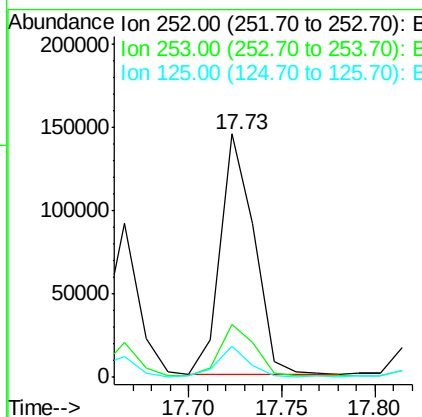
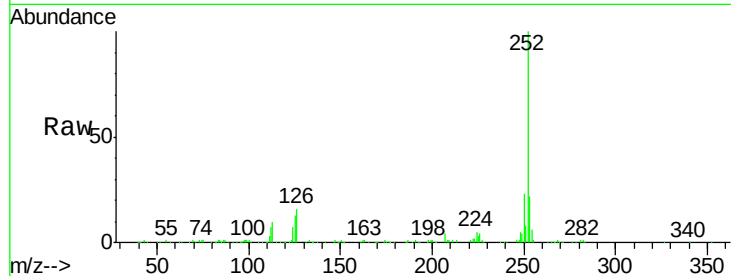
#89
Benzo(a)pyrene
Concen: 9.97 ng
RT: 17.73 min Scan# 1473
Delta R.T. -0.03 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Instrument :
BNA_F
ClientSampleId :
MW44DL

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	21.7	18.2	27.2
125	12.9	8.3	12.5#

Manual Integrations
APPROVED

mohammad
3/4/2015 4:42:17 PM



#91
Benzo(g,h,i)perylene
Concen: 4.37 ng
RT: 19.64 min Scan# 1641
Delta R.T. -0.04 min
Lab File: BF077570.D
Acq: 4 Mar 2015 3:51

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	24.0	18.9	28.3
138	20.6	20.5	30.7

