

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
 Data File : BF085612.D
 Acq On : 20 Mar 2016 11:44
 Operator : UM/SJ
 Sample : H1796-09DL 100X
 Misc :
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB09(6-8)DL

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:11:01 PM

Quant Time: Mar 21 05:42:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	128926	20.00	ng	-0.01
21) Naphthalene-d8	8.14	136	538707	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	233053	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	406202	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	264742	20.00	ng	0.00
86) Perylene-d12	15.44	264	246165	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	4298	0.56	ng	0.00
7) Phenol-d6	6.48	99	9373	0.95	ng	-0.01
23) Nitrobenzene-d5	7.42	82	5438	0.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	1905	0.83	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	18730	-1.00	ng	-0.01
78) Terphenyl-d14	12.96	244	13385	1.22	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	999949	36.77	ng	99
37) 2-Methylnaphthalene	8.85	142	262353	15.83	ng	97
45) 1,1'-Biphenyl	9.32	154	85814	4.27	ng	93
48) Acenaphthylene	9.75	152	315690	13.28	ng	99
51) Acenaphthene	9.92	154	35558	2.38	ng	98
54) Dibenzofuran	10.09	168	62572	3.45	ng	# 90
57) Fluorene	10.44	166	257611m	17.02	ng	
70) Phenanthrene	11.41	178	1188267	55.48	ng	100
71) Anthracene	11.45	178	380266	16.93	ng	98
74) Fluoranthene	12.59	202	403709	18.00	ng	97
77) Pyrene	12.81	202	608524	32.01	ng	99
80) Benzo(a)anthracene	14.00	228	185576m	12.07	ng	
82) Chrysene	14.04	228	170565m	11.54	ng	
85) Indeno(1,2,3-cd)pyrene	16.84	276	44639	3.61	ng	97
87) Benzo(b)fluoranthene	15.03	252	112855m	7.03	ng	
88) Benzo(k)fluoranthene	15.04	252	44564m	3.37	ng	
89) Benzo(a)pyrene	15.37	252	136031	9.99	ng	96
91) Benzo(g,h,i)perylene	17.25	276	54945	5.00	ng	98

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

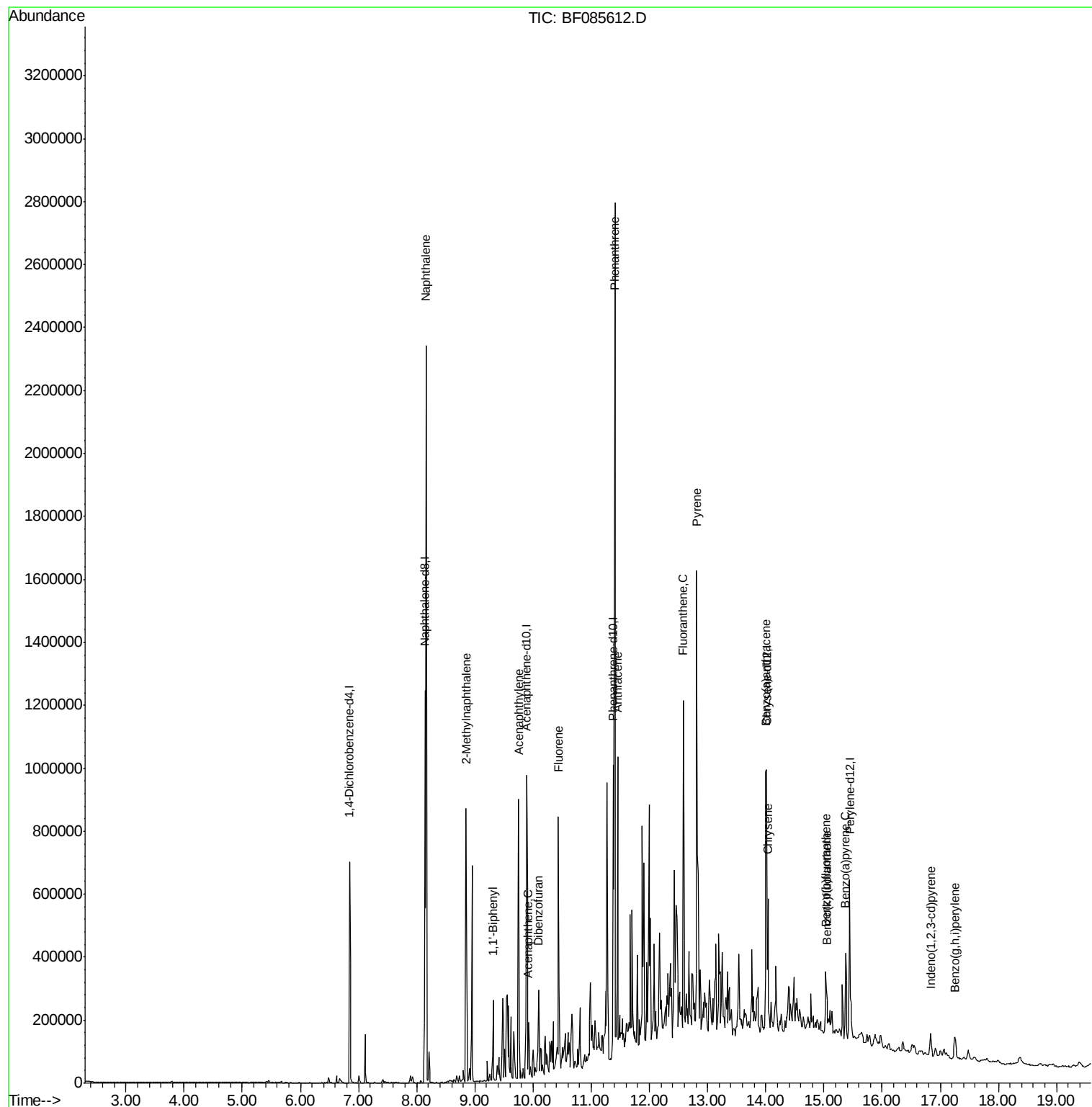
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
Data File : BF085612.D
Acq On : 20 Mar 2016 11:44
Operator : UM/SJ
Sample : H1796-09DL 100X
Misc :
ALS Vial : 70 Sample Multiplier: 1

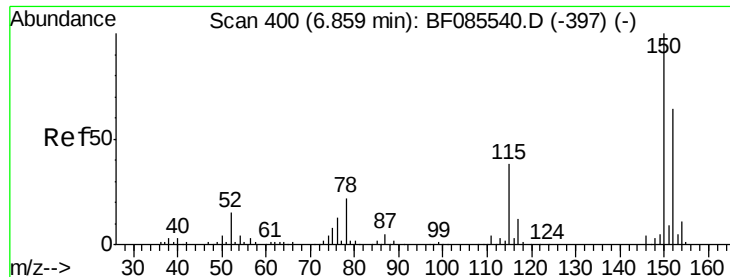
Instrument :
BNA_F
ClientSampleId :
AOU2-SB09(6-8)DL

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM

Quant Time: Mar 21 05:42:17 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

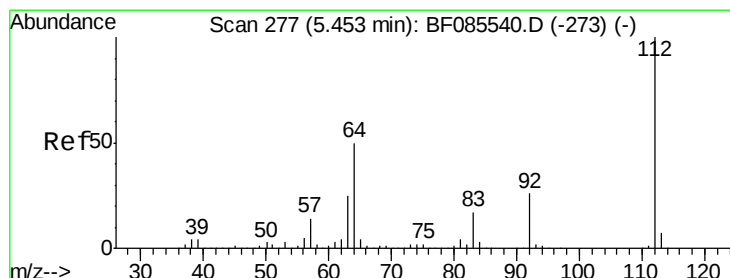
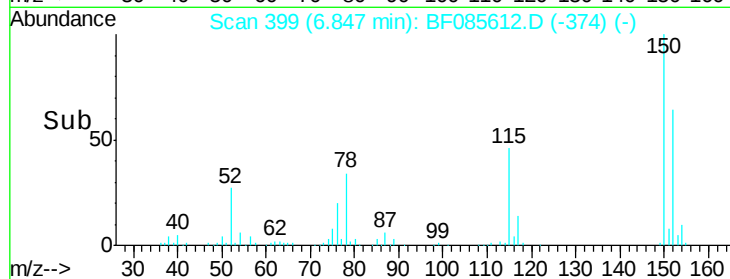
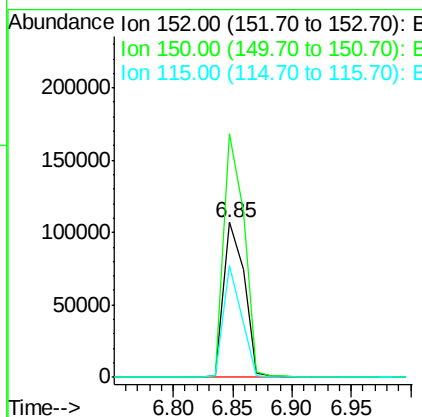
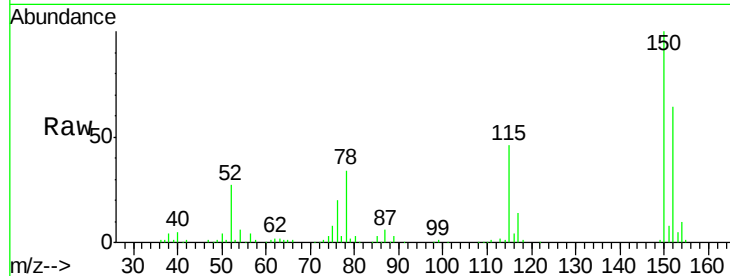
ClientSampleId :

AOU2-SB09(6-8)DL

Tgt Ion:	152	Resp:	128926
Ion Ratio	Lower	Upper	
152	100		
150	157.2	124.2	186.2
115	72.3	47.0	70.6#

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#5

2-Fluorophenol

Concen: 0.56 ng

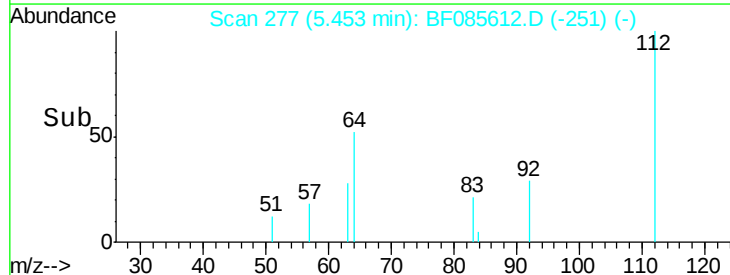
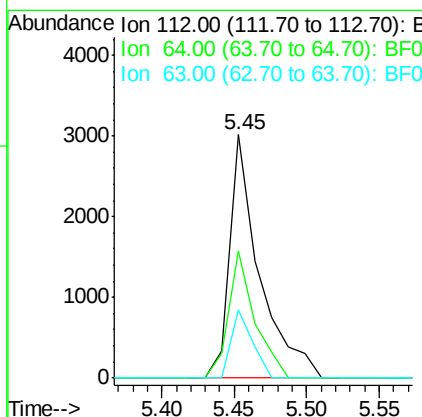
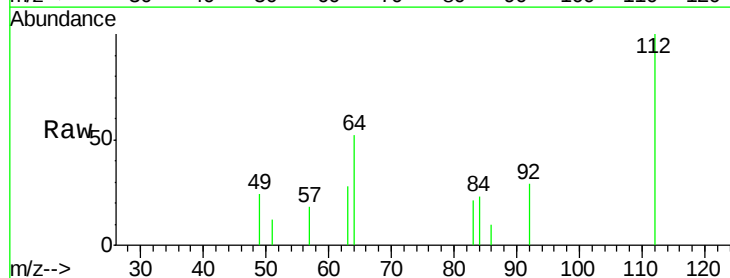
RT: 5.45 min Scan# 277

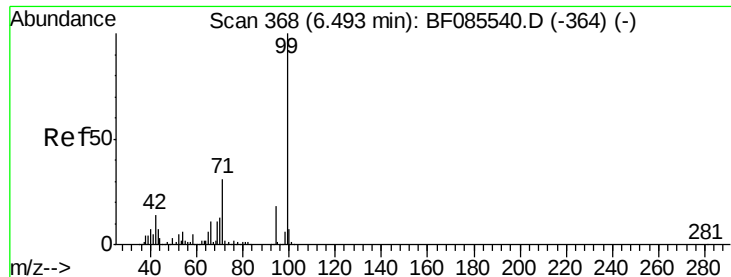
Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Tgt Ion:	112	Resp:	4298
Ion Ratio	Lower	Upper	
112	100		
64	52.1	39.9	59.9
63	28.2	20.2	30.2





#7

Phenol-d6

Concen: 0.95 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF085612.D

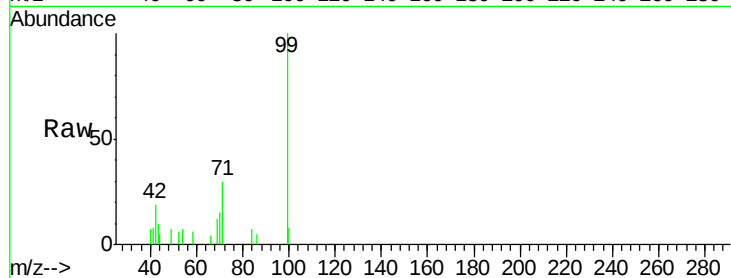
Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

ClientSampleId :

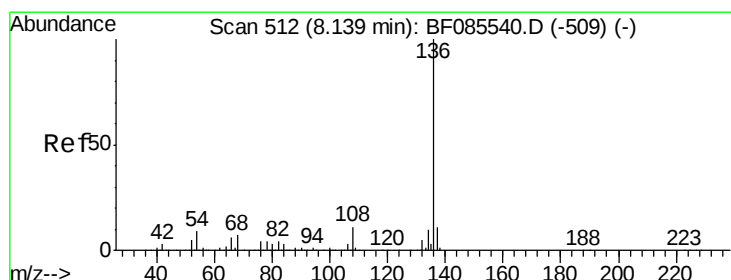
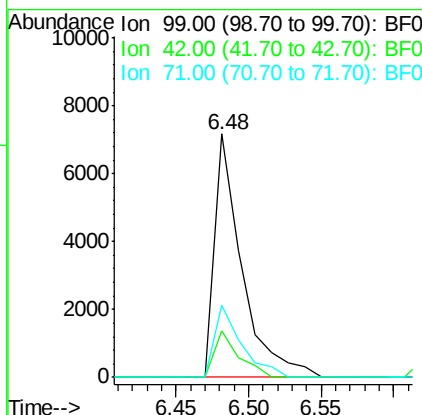
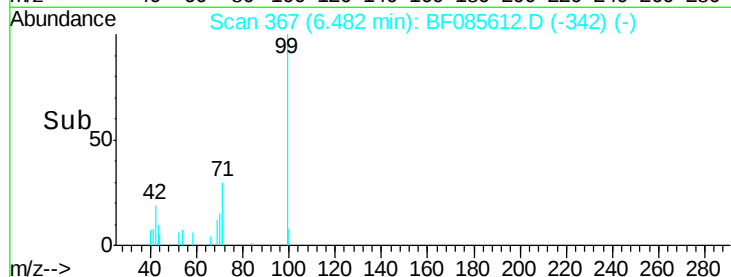
AOU2-SB09(6-8)DL



Tgt Ion:	99	Resp:	9373
Ion Ratio	Lower	Upper	
99	100		
42	19.3	11.1	16.7#
71	29.5	24.9	37.3

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#21

Naphthalene-d8

Concen: 20.00 ng

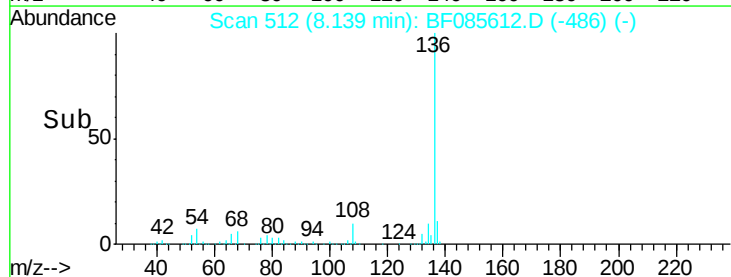
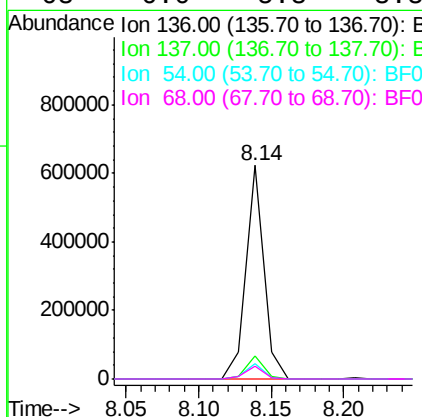
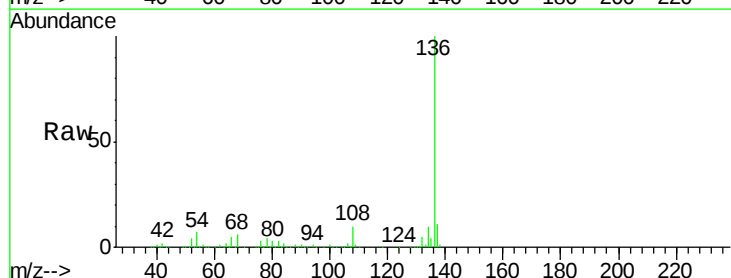
RT: 8.14 min Scan# 512

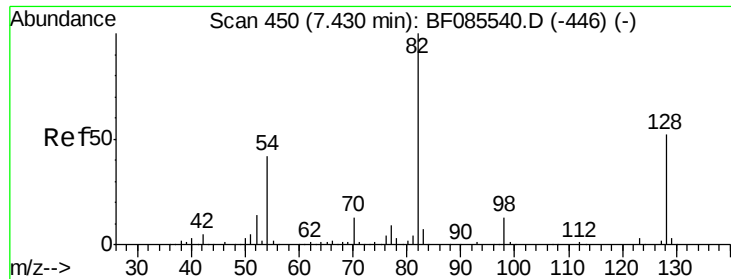
Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Tgt Ion:	136	Resp:	538707
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.1	13.7
54	7.0	7.4	11.0#
68	6.0	5.8	8.8





#23

Nitrobenzene-d5

Concen: 0.59 ng

RT: 7.42 min Scan# 449

Delta R.T. -0.01 min

Lab File: BF085612.D

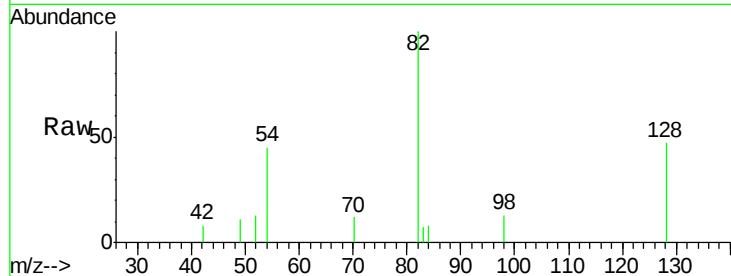
Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

ClientSampleId :

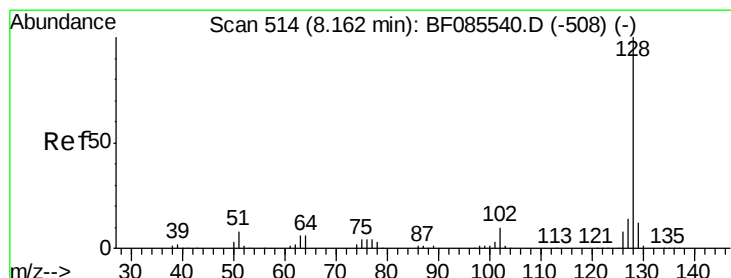
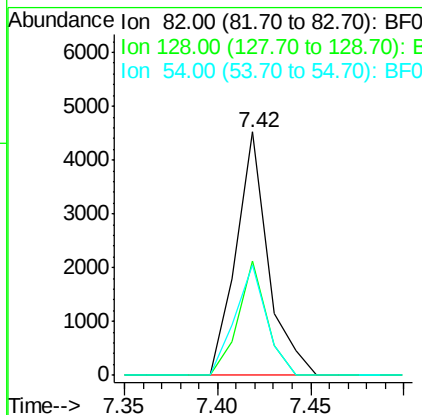
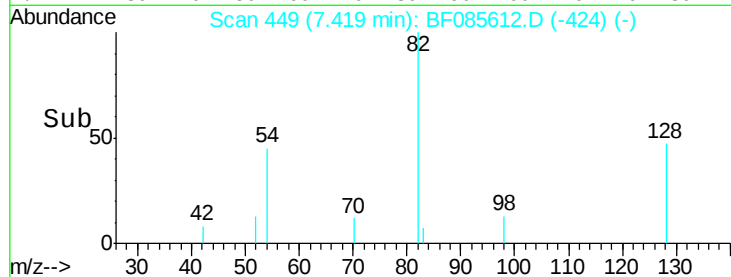
AOU2-SB09(6-8)DL



Tgt Ion	82	128	54
Ratio	100	47.1	45.3
Lower		41.8	33.4
Upper		62.8	50.0

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#31

Naphthalene

Concen: 36.77 ng

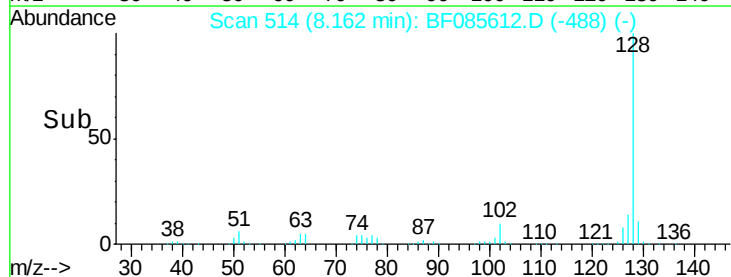
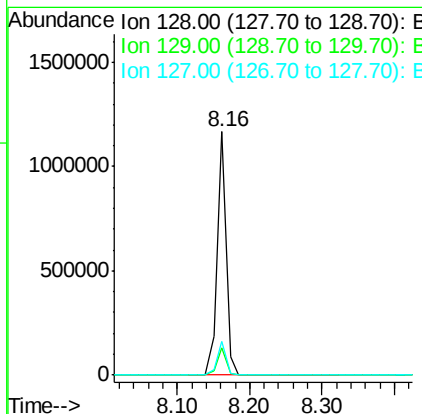
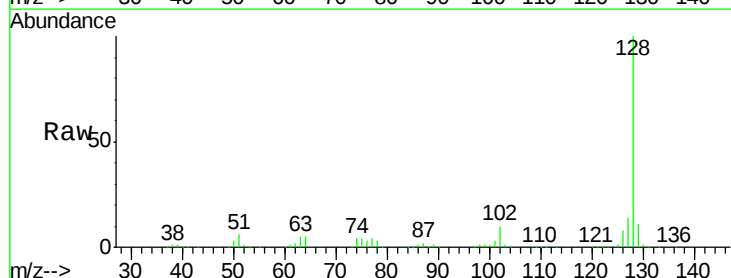
RT: 8.16 min Scan# 514

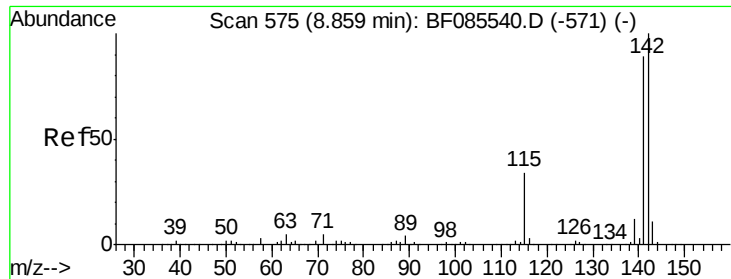
Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Tgt Ion	128	129	127
Ratio	100	11.5	13.6
Lower		9.4	11.0
Upper		14.0	16.6





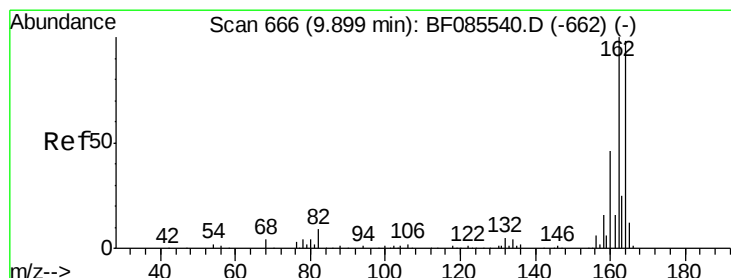
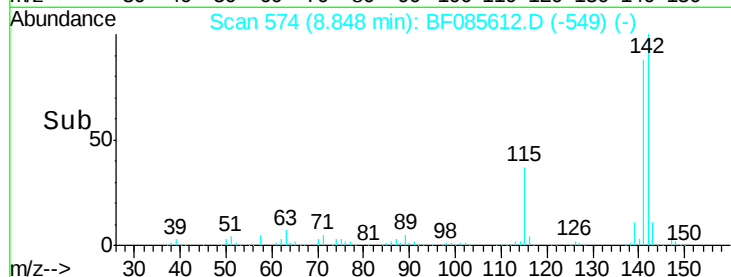
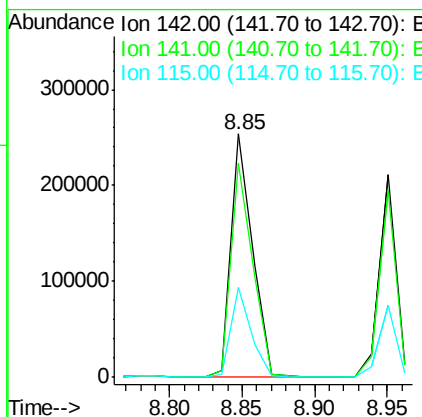
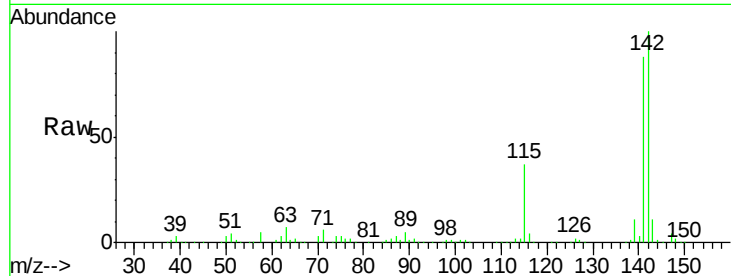
#37
2-Methylnaphthalene
Concen: 15.83 ng
RT: 8.85 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Instrument :
BNA_F
ClientSampleId :
AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	262353		
141	88.1	71.6	107.4	
115	37.1	26.8	40.2	

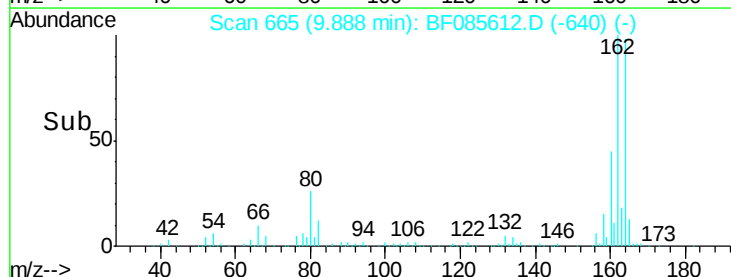
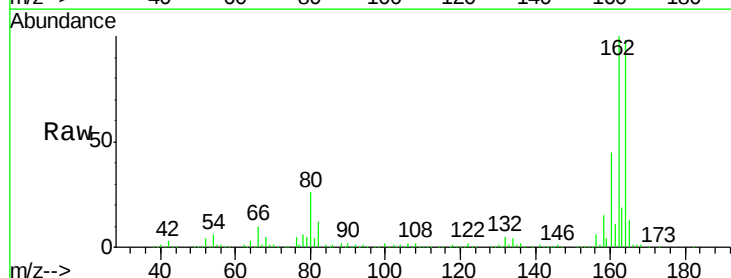
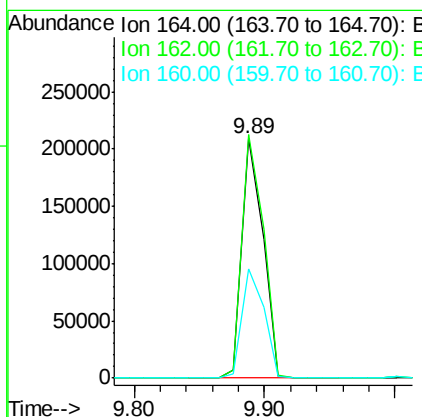
Manual Integrations
APPROVED

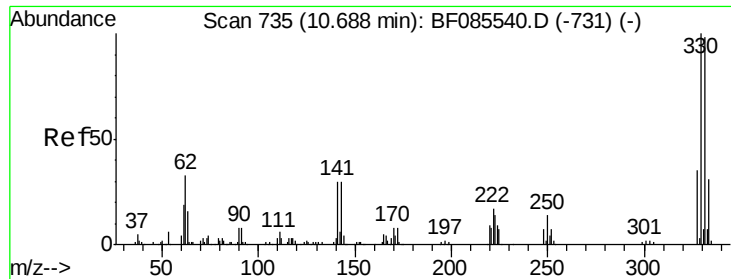
apatel
3/21/2016 5:11:01 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	233053		
162	101.7	82.1	123.1	
160	45.7	37.4	56.2	





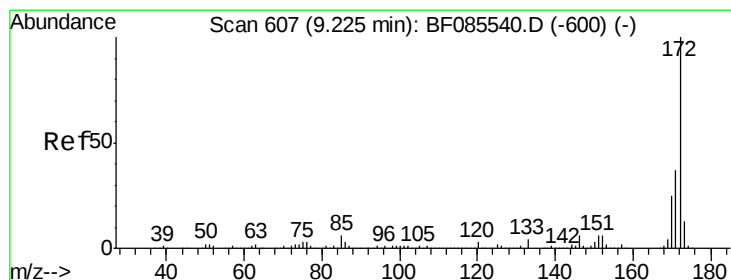
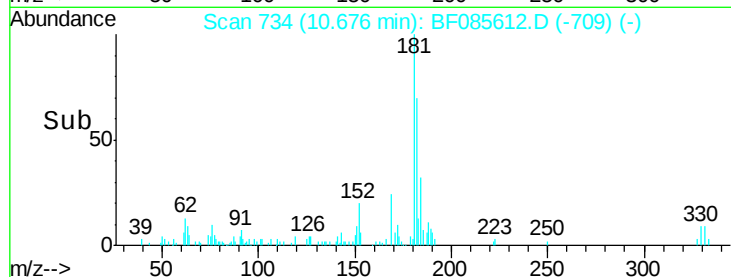
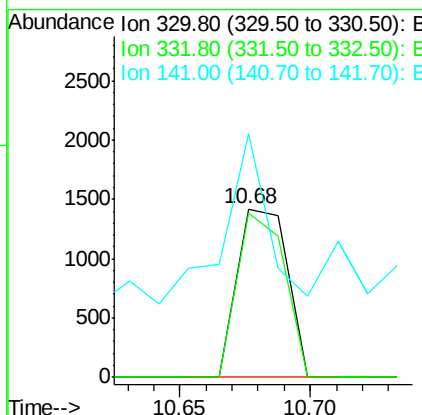
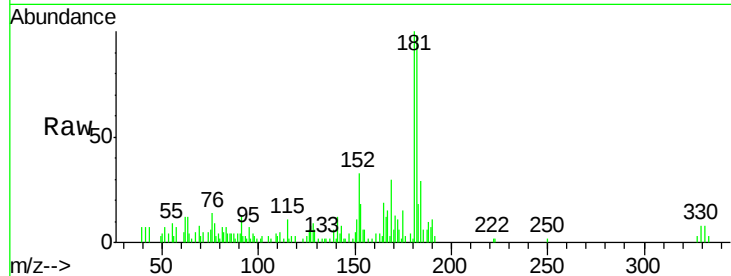
#41
 2,4,6-Tribromophenol
 Concen: 0.83 ng
 RT: 10.68 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	1905		
332	92.9	78.2	117.2	
141	87.8	31.5	47.3	

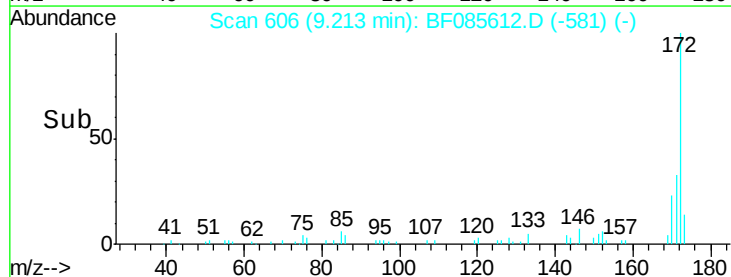
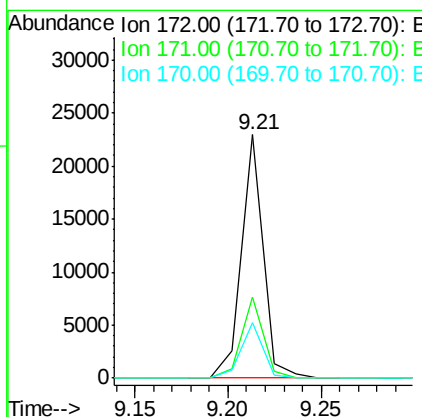
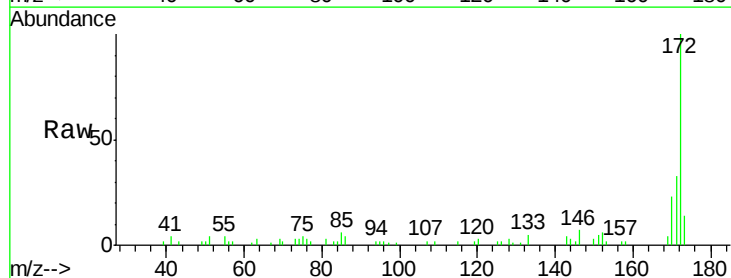
Manual Integrations
 APPROVED

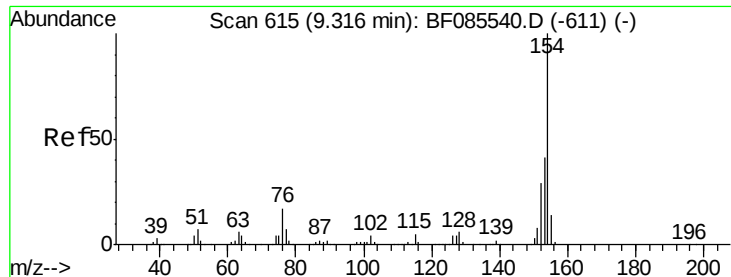
apatel
 3/21/2016 5:11:01 PM



#44
 2-Fluorobiphenyl
 Concen: -1.00 ng
 RT: 9.21 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	18730		
171	33.1	29.4	44.2	
170	22.8	19.8	29.6	





#45

1,1'-Biphenyl

Concen: 4.27 ng

RT: 9.32 min Scan# 615

Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

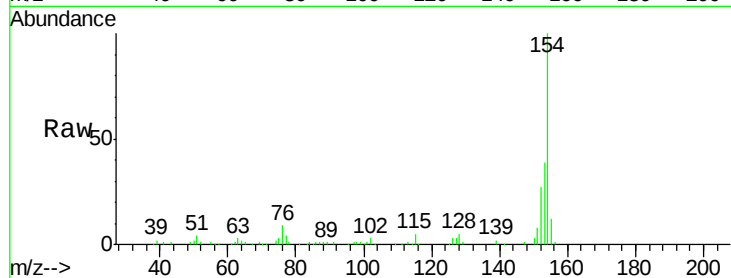
ClientSampleId :

AOU2-SB09(6-8)DL

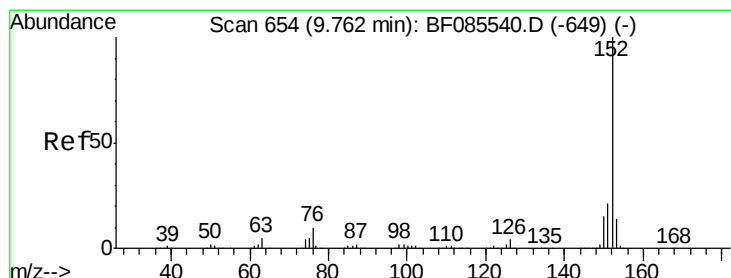
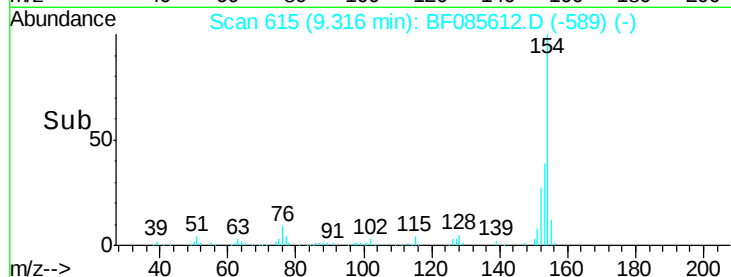
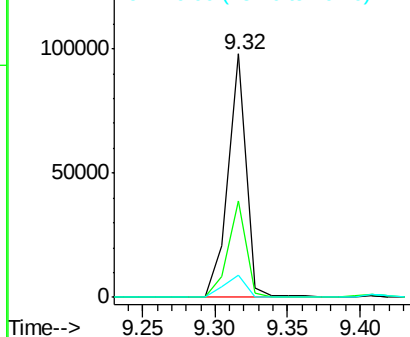
Tgt Ion:	154	Resp:	85814
Ion Ratio	Lower	Upper	
154	100		
153	39.4	20.8	60.8
76	9.2	0.0	36.7

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 13.28 ng

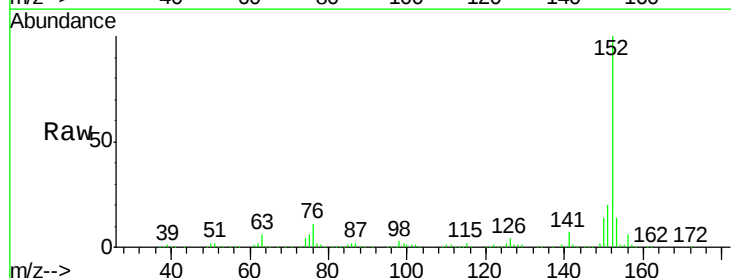
RT: 9.75 min Scan# 653

Delta R.T. -0.01 min

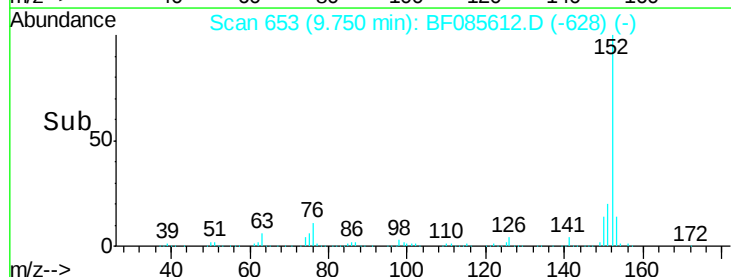
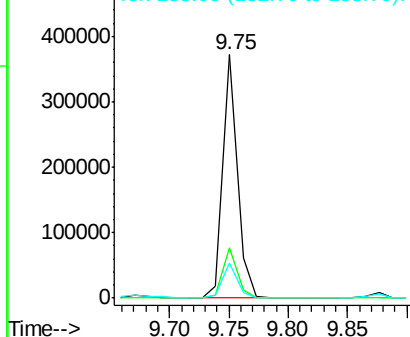
Lab File: BF085612.D

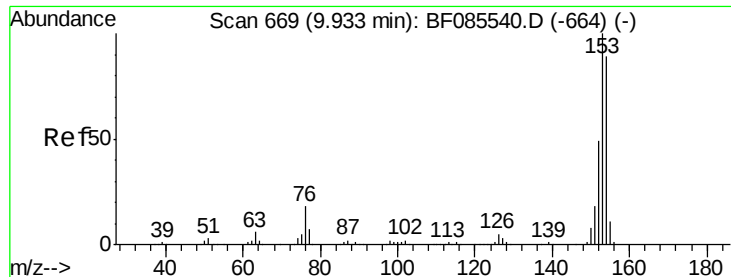
Acq: 20 Mar 2016 11:44

Tgt Ion:	152	Resp:	315690
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.8	25.2
153	14.4	10.9	16.3



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 2.38 ng

RT: 9.92 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF085612.D

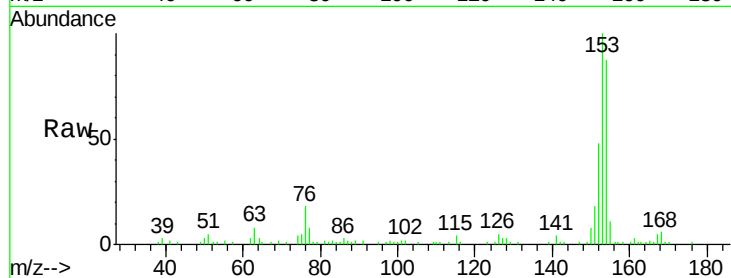
Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

ClientSampleId :

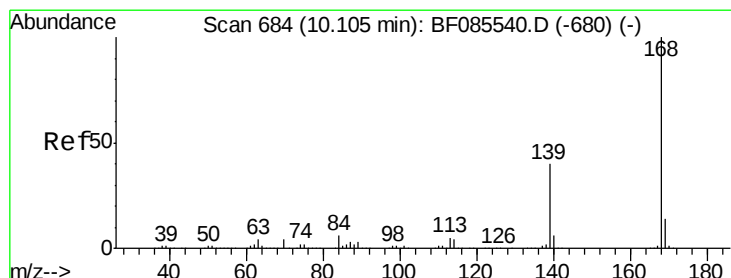
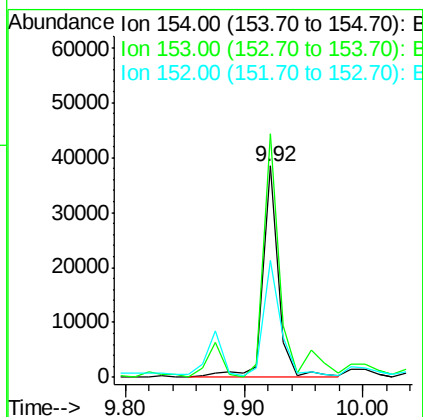
AOU2-SB09(6-8)DL



Tgt Ion:	154	Resp:	35558
Ion Ratio	Lower	Upper	
154	100		
153	115.3	90.1	135.1
152	55.6	44.2	66.2

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#54

Dibenzofuran

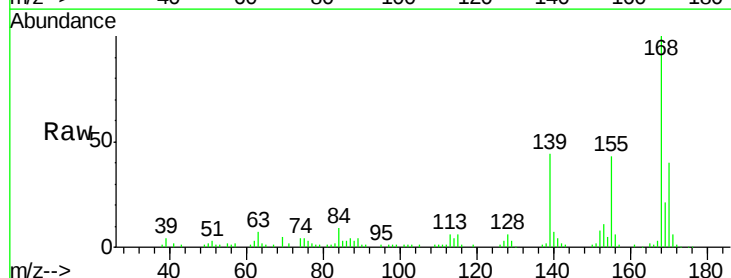
Concen: 3.45 ng

RT: 10.09 min Scan# 683

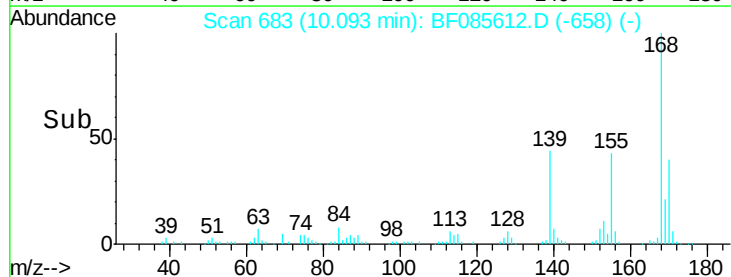
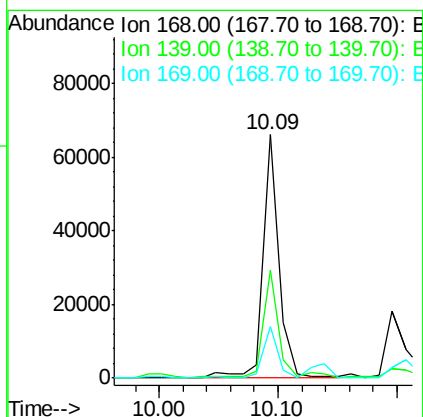
Delta R.T. -0.01 min

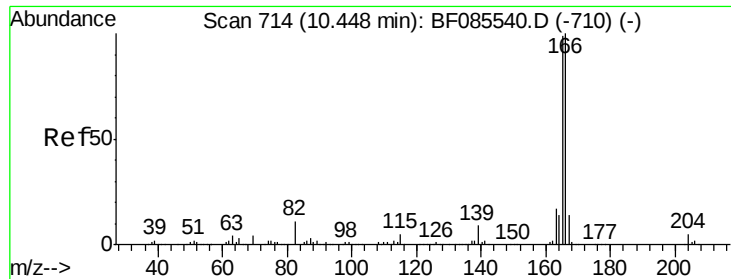
Lab File: BF085612.D

Acq: 20 Mar 2016 11:44



Tgt Ion:	168	Resp:	62572
Ion Ratio	Lower	Upper	
168	100		
139	44.5	31.9	47.9
169	21.0	11.0	16.6#





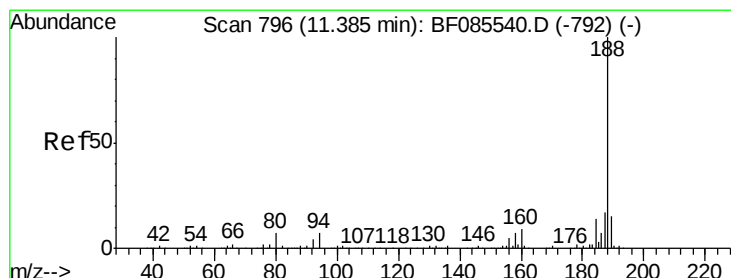
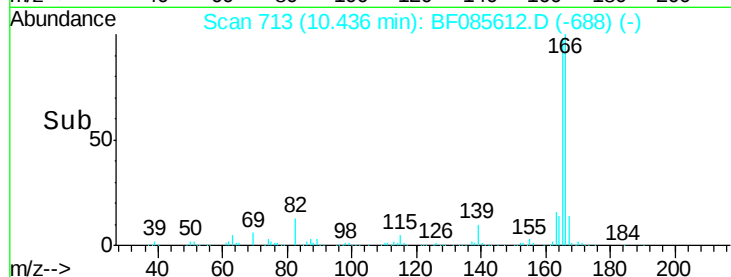
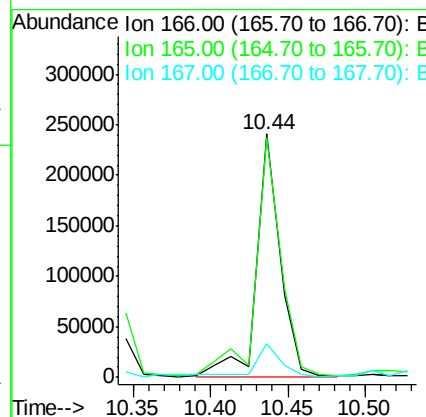
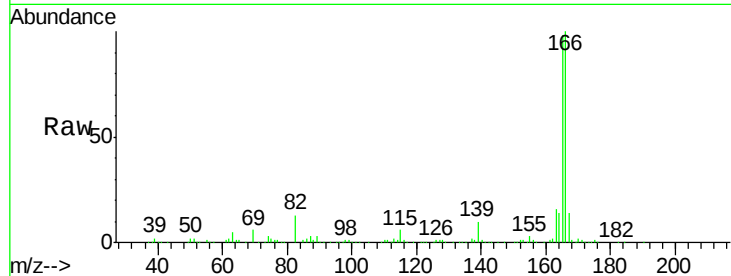
#57
Fluorene
 Concen: 17.02 ng m
 RT: 10.44 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	257611		
165	98.3	79.4	119.0	
167	14.1	11.0	16.4	

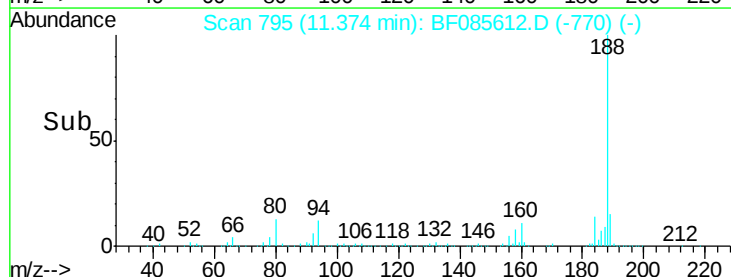
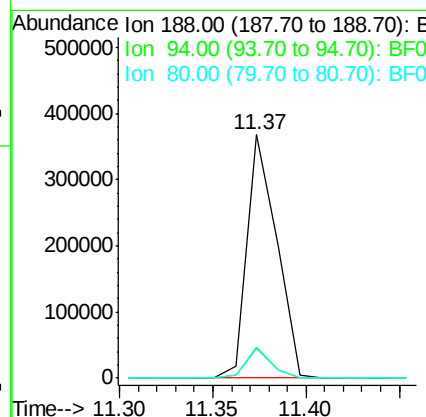
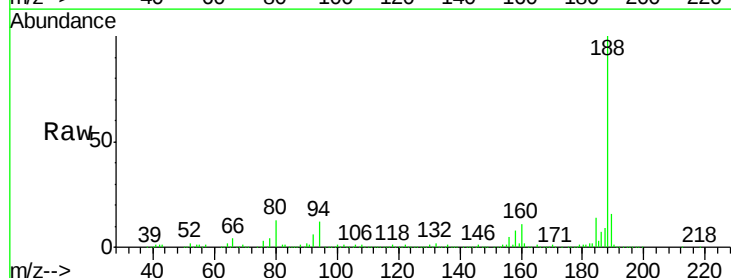
Manual Integrations
 APPROVED

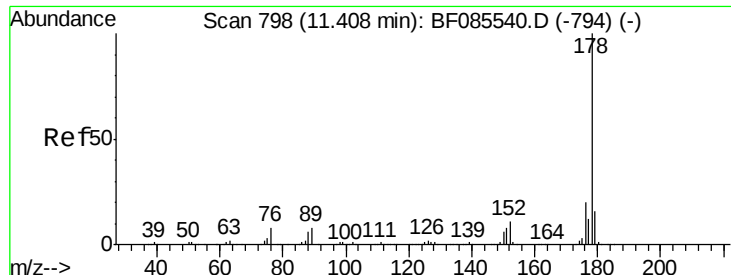
apatel
 3/21/2016 5:11:01 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	406202		
94	12.0	5.4	8.0#	
80	12.7	5.5	8.3#	





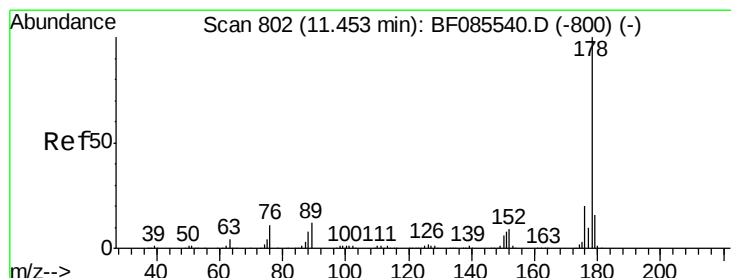
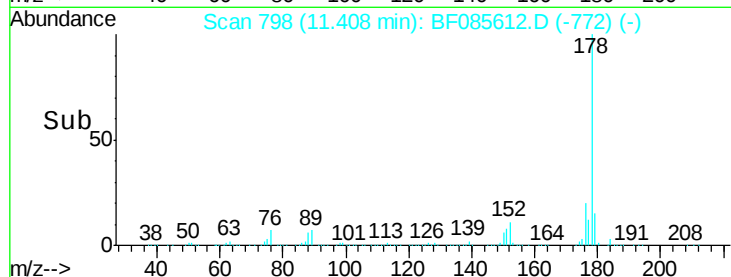
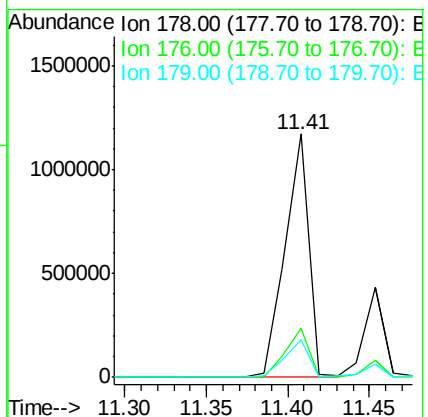
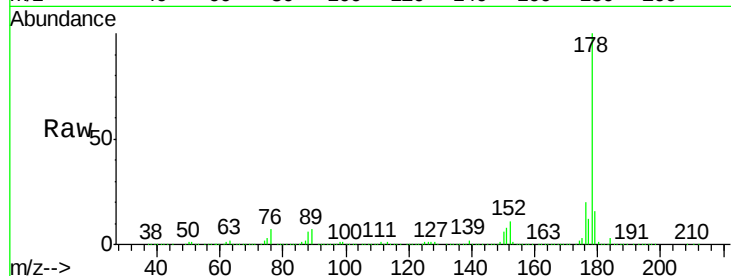
#70
Phenanthrene
Concen: 55.48 ng
RT: 11.41 min Scan# 798
Delta R.T. 0.00 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Instrument :
BNA_F
ClientSampleId :
AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.3	24.5
179	15.6	12.6	18.8

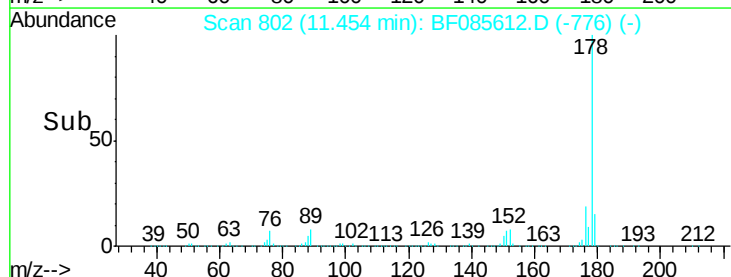
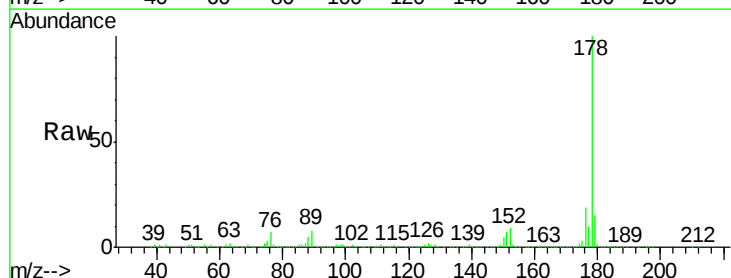
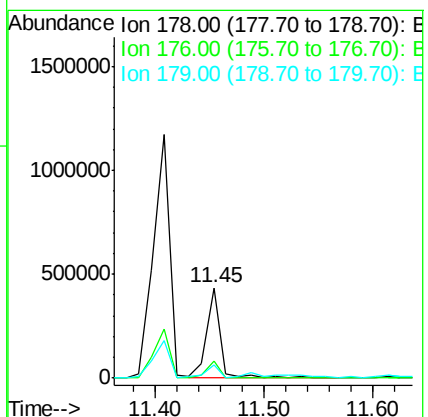
Manual Integrations
APPROVED

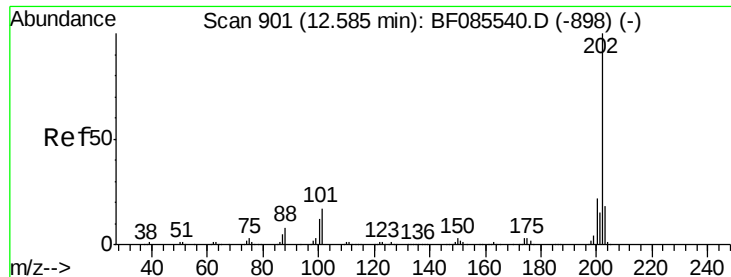
apatel
3/21/2016 5:11:01 PM



#71
Anthracene
Concen: 16.93 ng
RT: 11.45 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.9	23.9
179	15.4	13.0	19.4





#74

Fluoranthene

Concen: 18.00 ng

RT: 12.59 min Scan# 901

Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

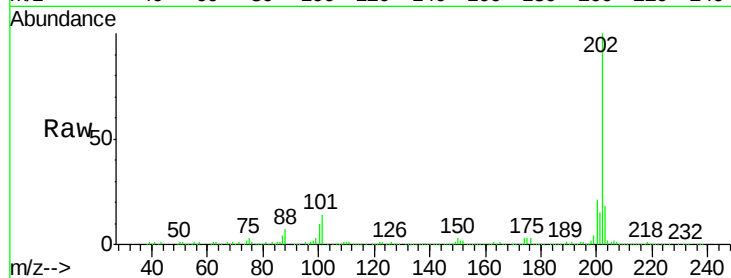
ClientSampleId :

AOU2-SB09(6-8)DL

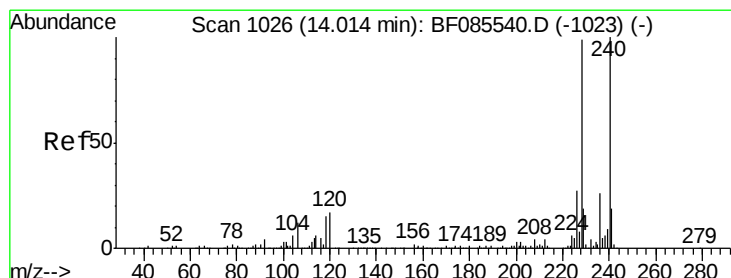
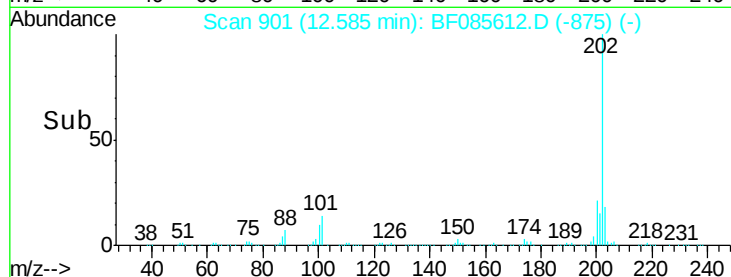
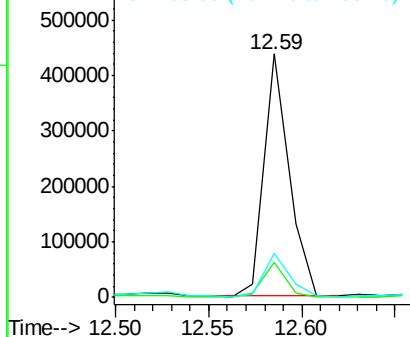
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		403709		
101	14.4	0.0	36.6		
203	18.1	0.0	38.1		

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



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



#75

Chrysene-d12

Concen: 20.00 ng

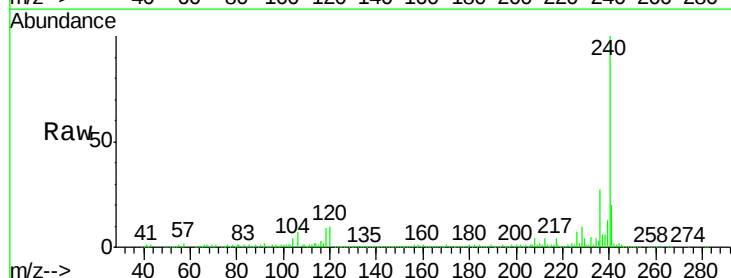
RT: 14.01 min Scan# 1026

Delta R.T. 0.00 min

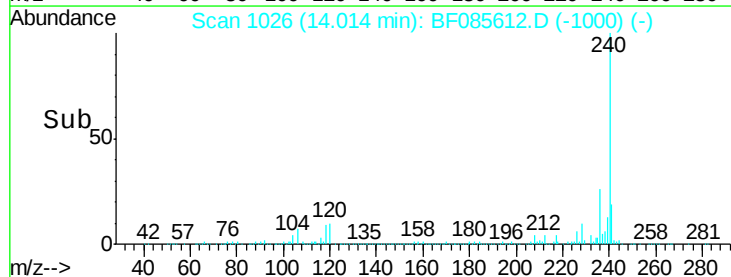
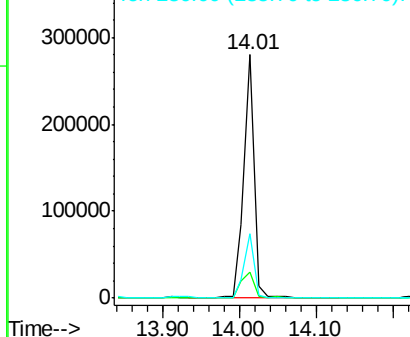
Lab File: BF085612.D

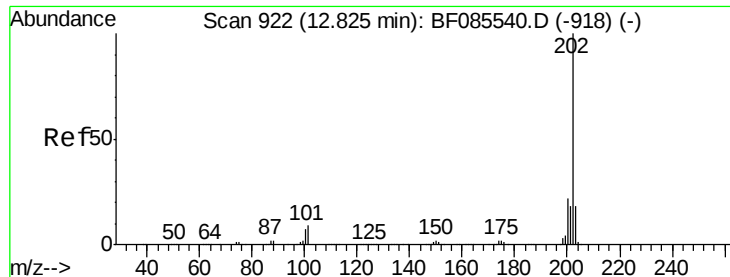
Acq: 20 Mar 2016 11:44

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		264742		
120	10.5	13.8	20.8#		
236	26.7	20.6	30.8		



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





#77

Pyrene

Concen: 32.01 ng

RT: 12.81 min Scan# 921

Delta R.T. -0.01 min

Lab File: BF085612.D

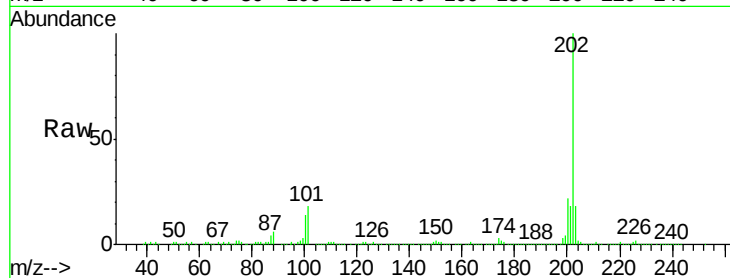
Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

ClientSampleId :

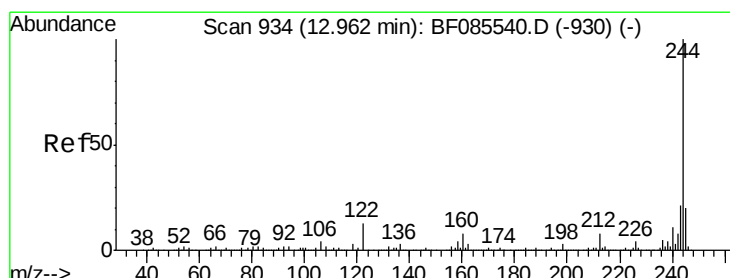
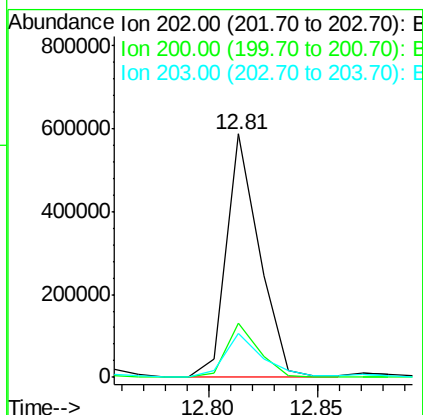
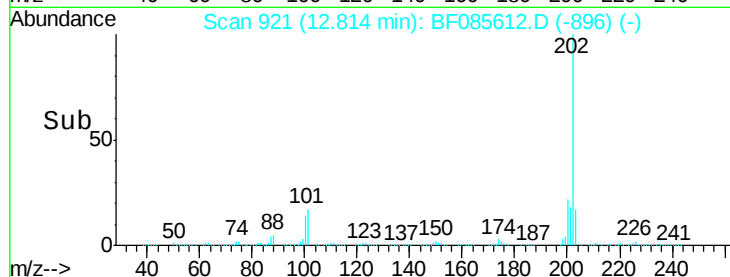
AOU2-SB09(6-8)DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.2	17.6	26.4	
203	18.2	14.0	21.0	

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#78

Terphenyl-d14

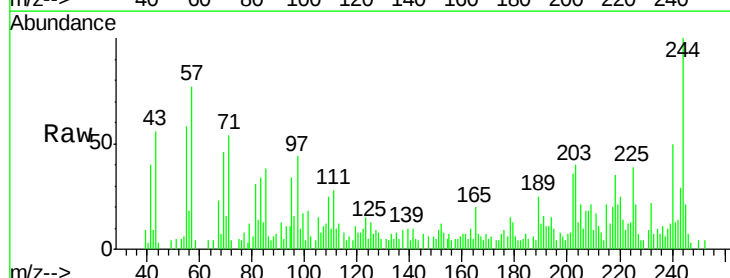
Concen: 1.22 ng

RT: 12.96 min Scan# 934

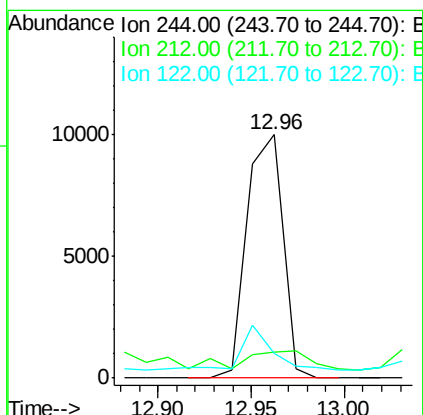
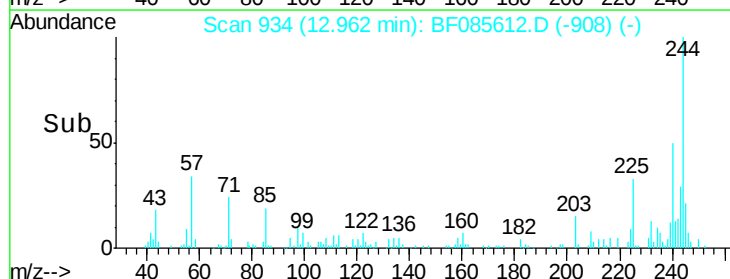
Delta R.T. 0.00 min

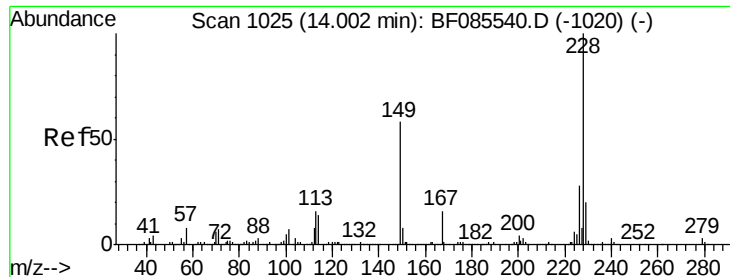
Lab File: BF085612.D

Acq: 20 Mar 2016 11:44



Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	10.5	6.1	9.1#	
122	10.1	10.2	15.4#	





#80

Benzo(a)anthracene

Concen: 12.07 ng m

RT: 14.00 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

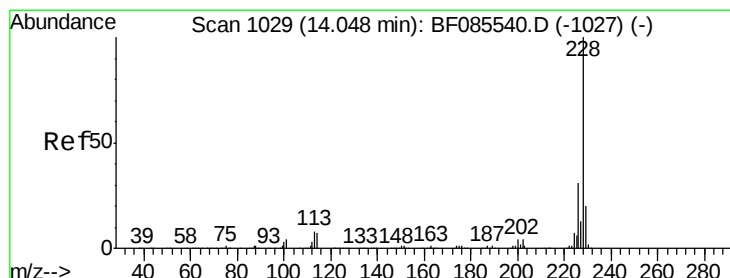
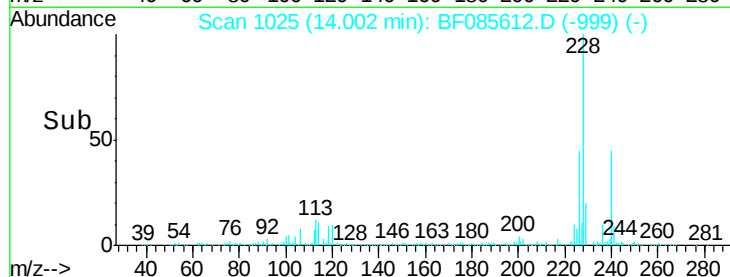
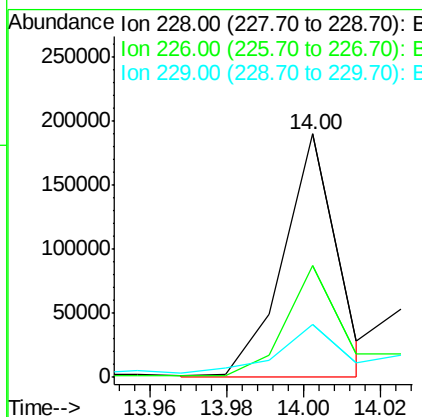
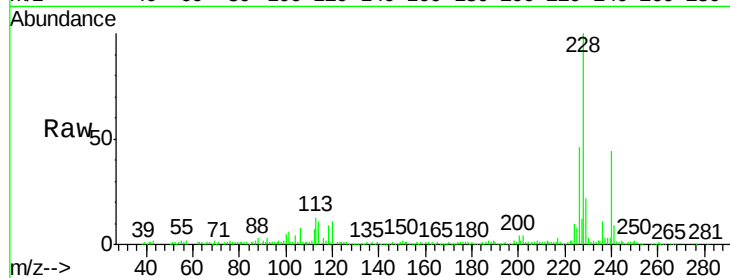
ClientSampleId :

AOU2-SB09(6-8)DL

Tgt Ion:	228	Resp:	185576
Ion Ratio		Lower	Upper
228	100		
226	46.0	22.1	33.1#
229	21.9	16.2	24.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#82

Chrysene

Concen: 11.54 ng m

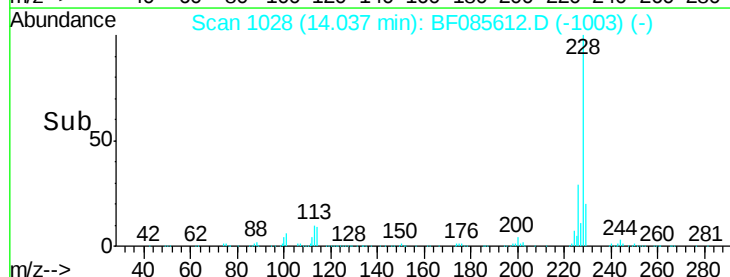
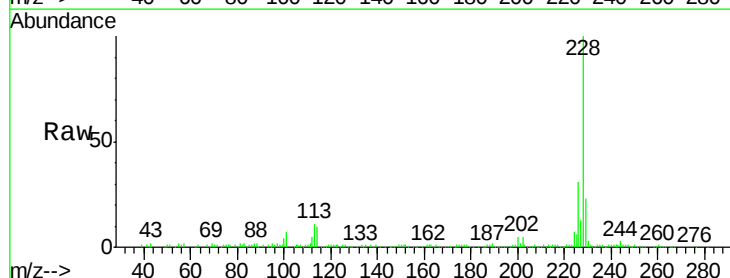
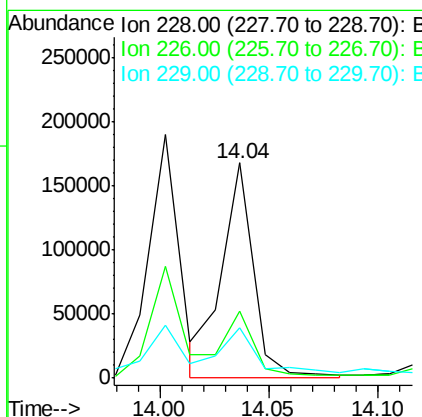
RT: 14.04 min Scan# 1028

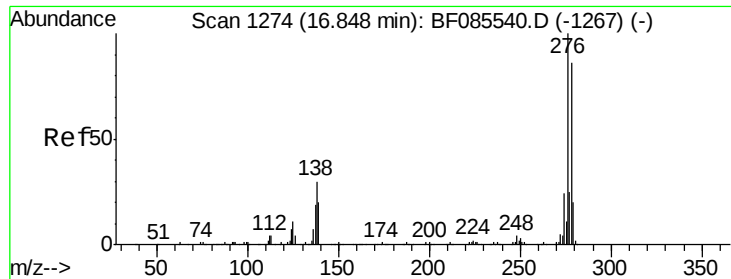
Delta R.T. -0.01 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Tgt Ion:	228	Resp:	170565
Ion Ratio		Lower	Upper
228	100		
226	31.1	25.0	37.6
229	23.2	15.7	23.5





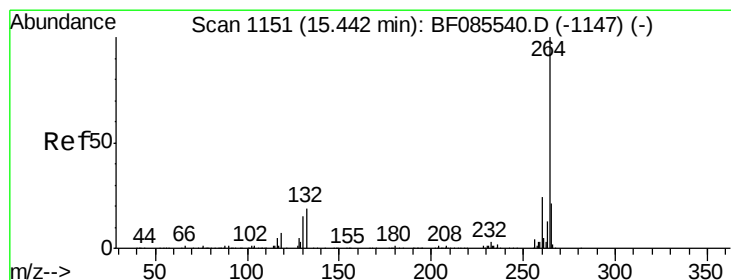
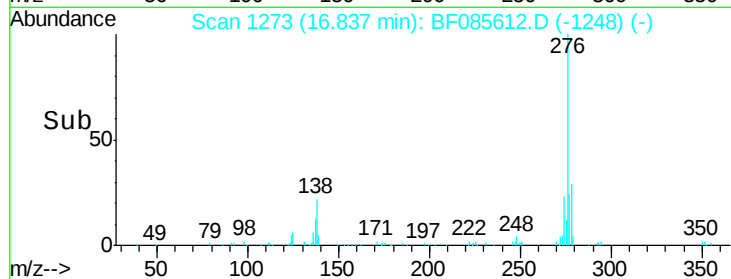
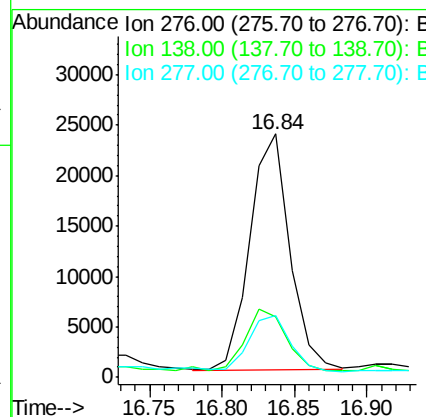
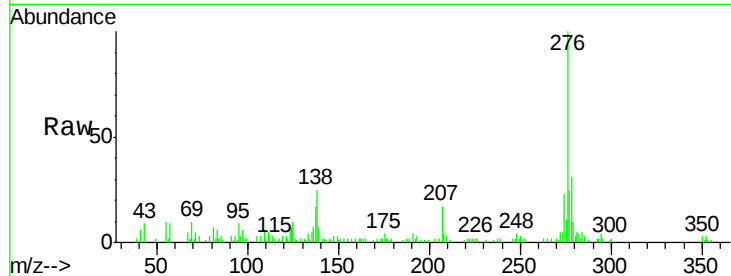
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.61 ng
 RT: 16.84 min Scan# 1273
 Delta R.T. -0.01 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Instrument :
 BNA_F
 ClientSampleId :
 AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.8	24.2	36.4
277	24.2	20.0	30.0

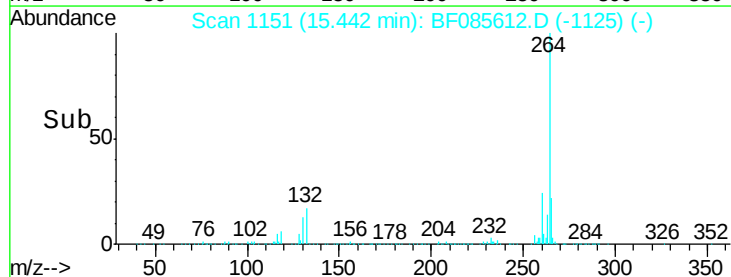
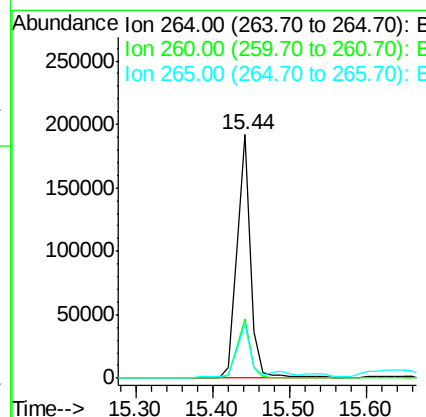
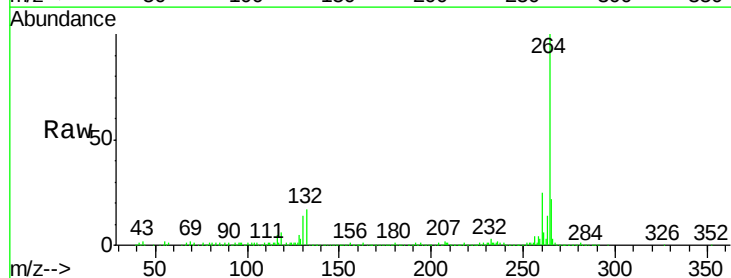
Manual Integrations
 APPROVED

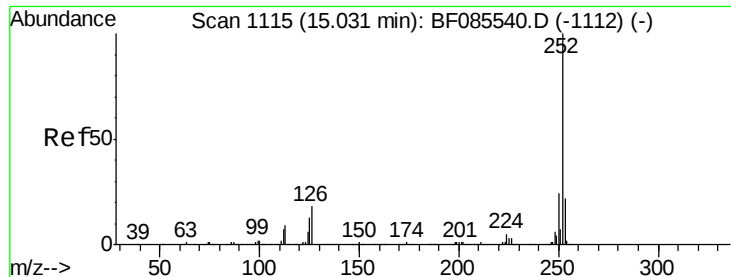
apatel
 3/21/2016 5:11:01 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: BF085612.D
 Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	22.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 7.03 ng m

RT: 15.03 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Instrument :

BNA_F

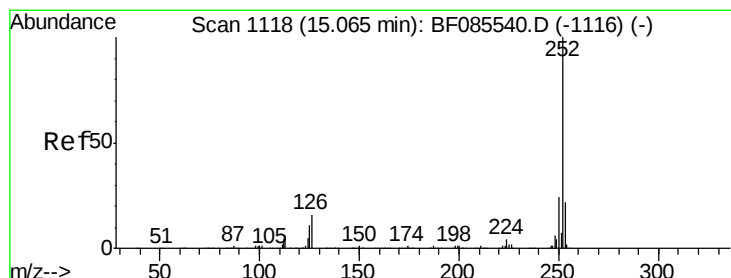
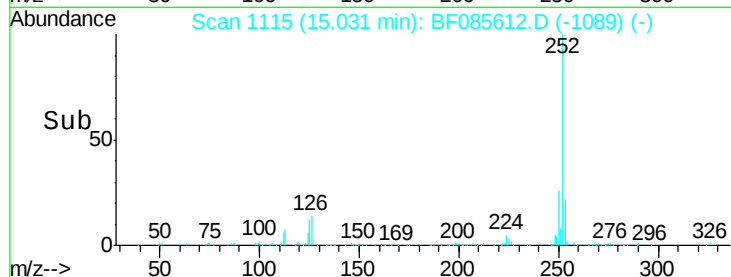
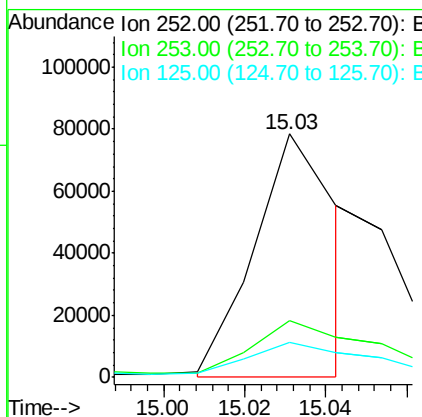
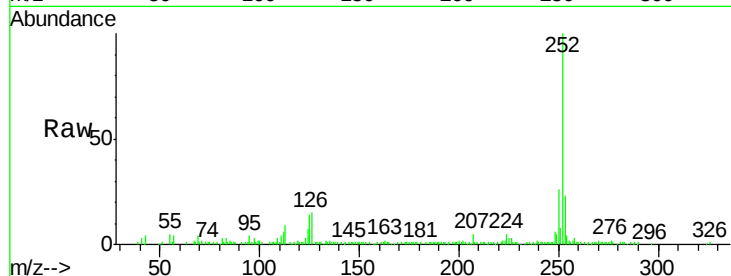
ClientSampleID :

AOU2-SB09(6-8)DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	14.1	10.3	15.5

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM



#88

Benzo(k)fluoranthene

Concen: 3.37 ng m

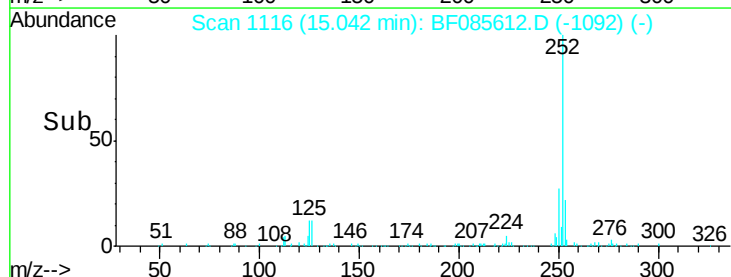
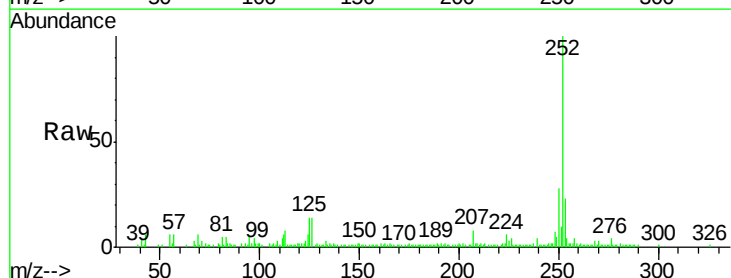
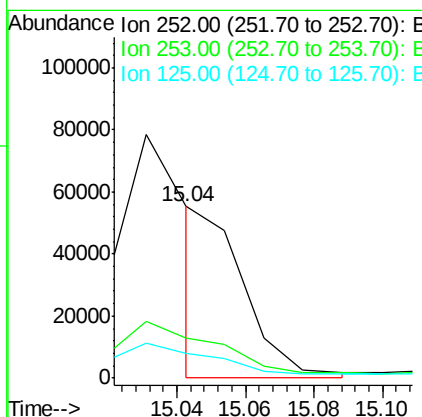
RT: 15.04 min Scan# 1116

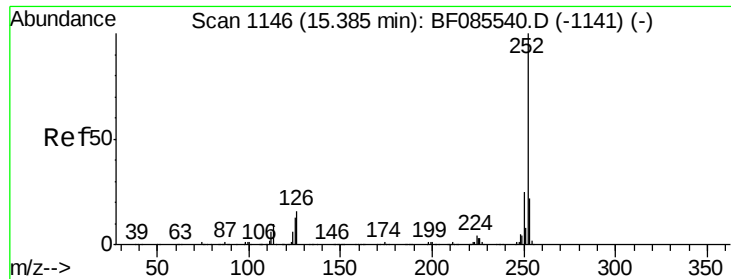
Delta R.T. -0.02 min

Lab File: BF085612.D

Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	14.4	7.7	11.5#





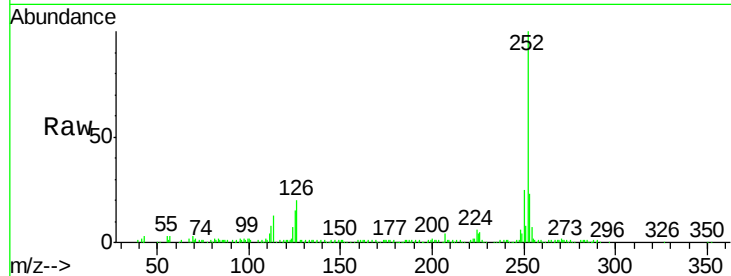
#89
Benzo(a)pyrene
Concen: 9.99 ng
RT: 15.37 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Instrument :
BNA_F
ClientSampleId :
AOU2-SB09(6-8)DL

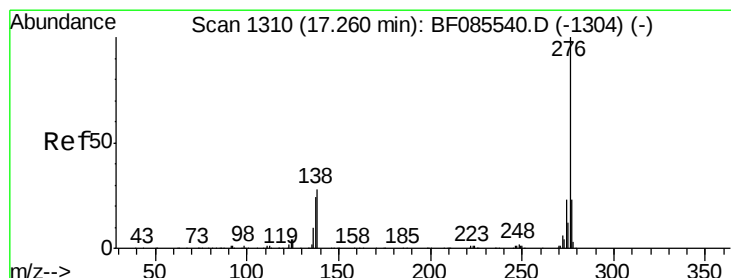
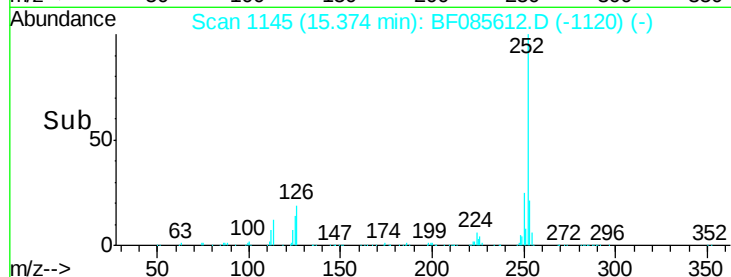
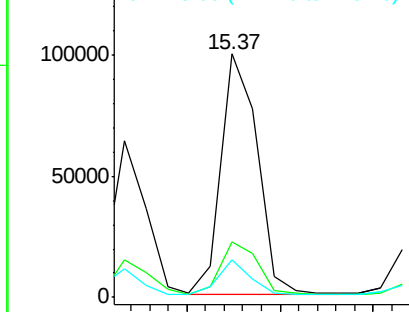
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	136031		
253	22.7	17.4	26.0	
125	15.2	10.3	15.5	

Manual Integrations
APPROVED

apatel
3/21/2016 5:11:01 PM

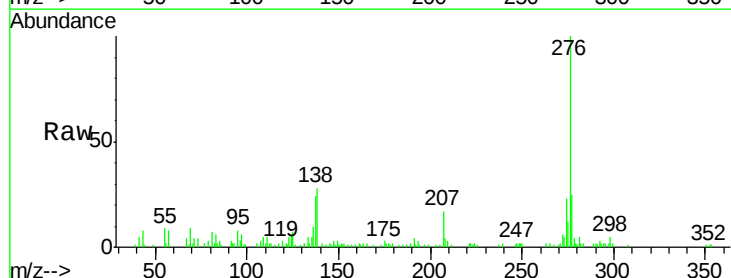


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 5.00 ng
RT: 17.25 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF085612.D
Acq: 20 Mar 2016 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	54945		
277	25.4	18.8	28.2	
138	28.4	22.6	34.0	



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

