

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010917\
 Data File : BF092153.D
 Acq On : 9 Jan 2017 22:23
 Operator : UM/SJ
 Sample : I1057-06
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P3-SP8

Manual Integrations
 APPROVED

Sohil
 1/10/2017 10:01:35 AM

Quant Time: Jan 10 03:42:09 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 06 15:43:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	130458	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	488397	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	230912	20.00	ng	-0.01
63) Phenanthrene-d10	11.16	188	382325	20.00	ng	0.00
75) Chrysene-d12	13.79	240	235465	20.00	ng	0.00
86) Perylene-d12	15.17	264	168044	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	719001	92.02	ng	0.00
7) Phenol-d6	6.31	99	1033059	108.30	ng	0.00
23) Nitrobenzene-d5	7.20	82	585791	66.69	ng	-0.01
41) 2,4,6-Tribromophenol	10.47	330	74260	38.86	ng	0.00
44) 2-Fluorobiphenyl	9.01	172	997991	89.19	ng	0.00
78) Terphenyl-d14	12.75	244	756145	77.88	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.32	94	54432	5.01	ng	89
49) Dimethylphthalate	9.41	163	73389	4.97	ng	99
51) Acenaphthene	9.70	154	80932	6.20	ng	99
54) Dibenzofuran	9.88	168	75159	4.26	ng	98
57) Fluorene	10.22	166	116692	9.10	ng	98
70) Phenanthrene	11.18	178	554907	26.77	ng	97
71) Anthracene	11.22	178	154042	6.04	ng	96
72) Carbazole	11.40	167	60224	2.58	ng	98
74) Fluoranthene	12.37	202	462798	23.63	ng	93
77) Pyrene	12.60	202	349954	20.26	ng	98
80) Benzo(a)anthracene	13.79	228	114461	8.61	ng	# 90
82) Chrysene	13.82	228	98370m	7.38	ng	
85) Indeno(1,2,3-cd)pyrene	16.46	276	27889	2.41	ng	# 90
87) Benzo(b)fluoranthene	14.79	252	77089m	7.37	ng	
88) Benzo(k)fluoranthene	14.80	252	34017m	3.81	ng	
89) Benzo(a)pyrene	15.11	252	54000	5.82	ng	# 50
91) Benzo(g,h,i)perylene	16.85	276	30255	3.81	ng	# 61

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

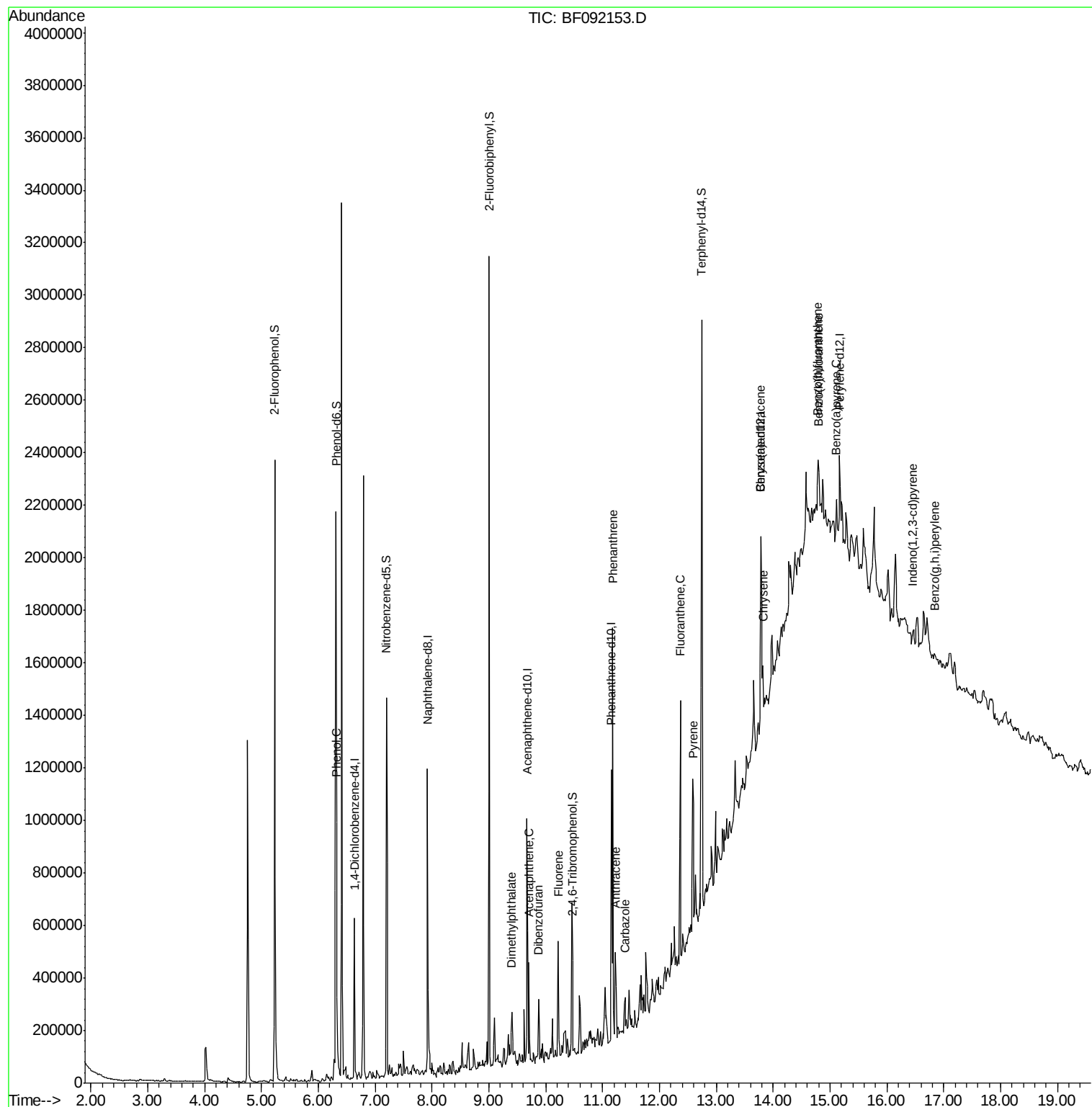
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010917\
Data File : BF092153.D
Acq On : 9 Jan 2017 22:23
Operator : UM/SJ
Sample : I1057-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

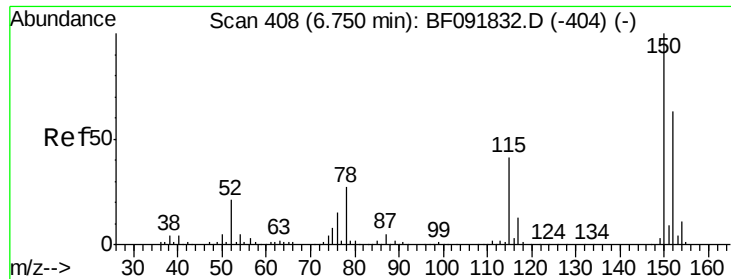
Instrument :
BNA_F
ClientSampleId :
P3-SP8

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM

Quant Time: Jan 10 03:42:09 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 06 15:43:51 2017
Response via : Initial Calibration





#1

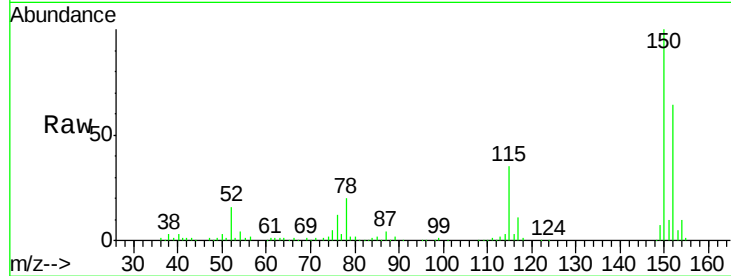
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.64 min Scan# 416
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampleId :
P3-SP8

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	130458		
150	157.0	124.9	187.3	
115	54.8	46.0	69.0	

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



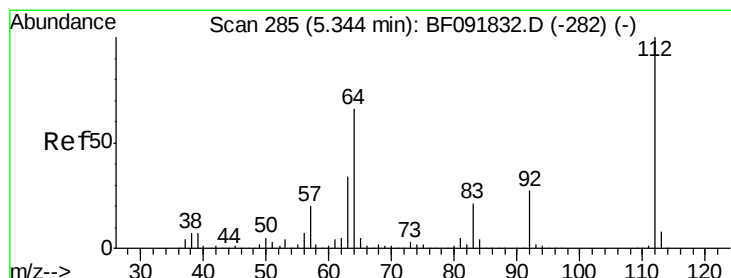
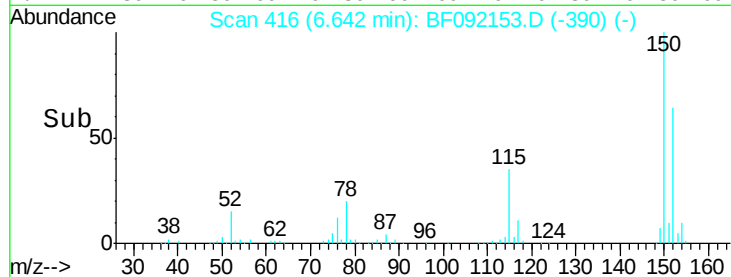
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

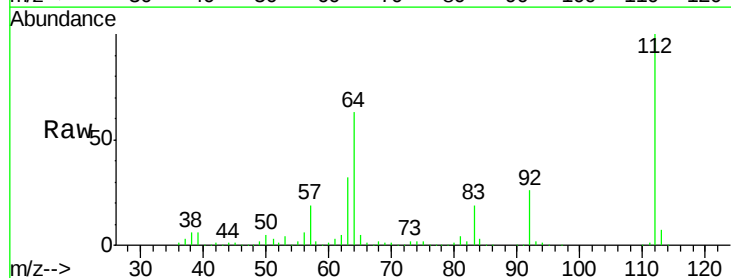
Time-->



#5

2-Fluorophenol
Concen: 92.02 ng
RT: 5.24 min Scan# 293
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	719001		
64	62.8	46.1	69.1	
63	32.0	23.8	35.6	



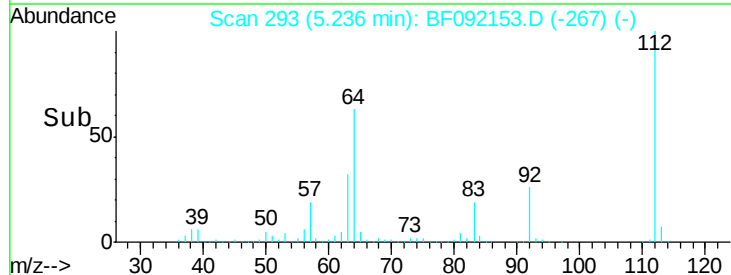
Abundance

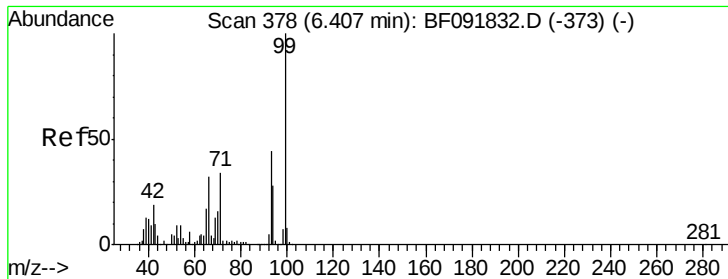
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->





#7

Phenol-d6

Concen: 108.30 ng

RT: 6.31 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

ClientSampled :

P3-SP8

Tgt Ion: 99 Resp: 1033059

Ion Ratio Lower Upper

99 100

42 18.9 15.6 23.4

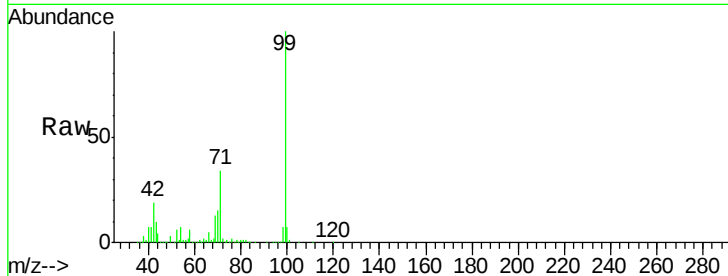
71 33.9 27.5 41.3

Manual Integrations

APPROVED

Sohil

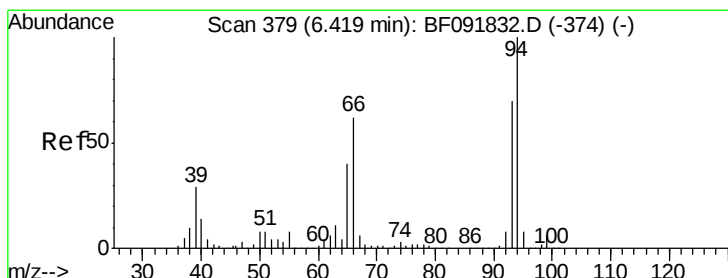
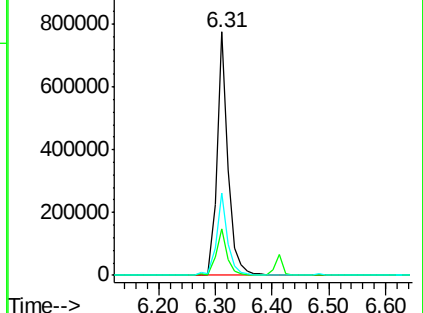
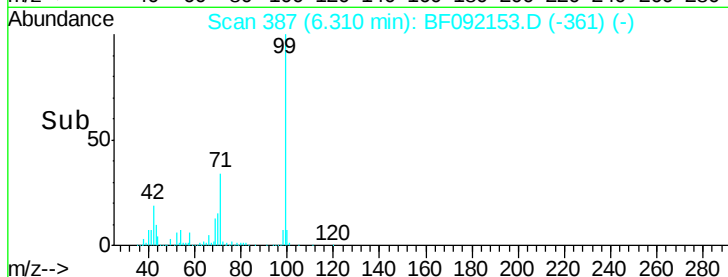
1/10/2017 10:01:35 AM



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.01 ng

RT: 6.32 min Scan# 388

Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

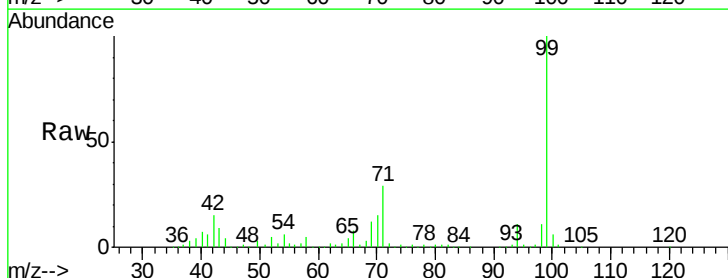
Tgt Ion: 94 Resp: 54432

Ion Ratio Lower Upper

94 100

65 36.7 21.4 61.4

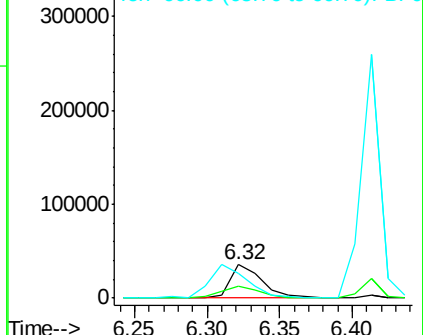
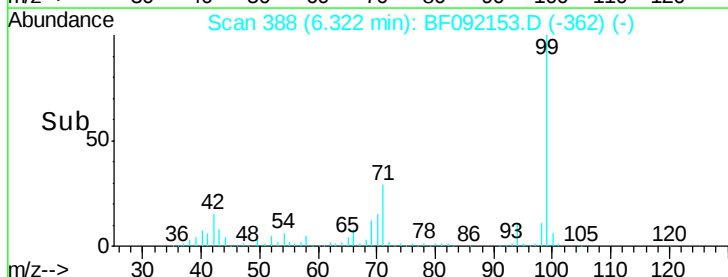
66 74.6 44.0 84.0

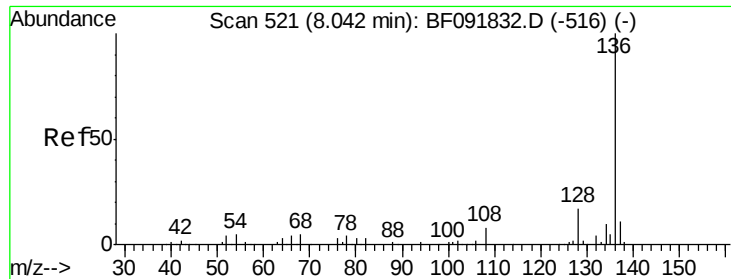


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 528

Delta R.T. -0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

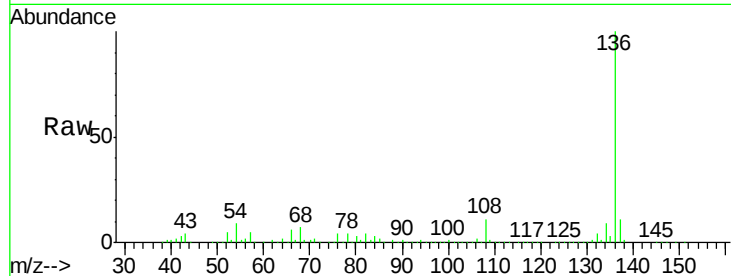
ClientSampleId :

P3-SP8

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	488397		
137	11.4	8.4	12.6	
54	9.0	4.5	6.7#	
68	6.8	3.6	5.4#	

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM

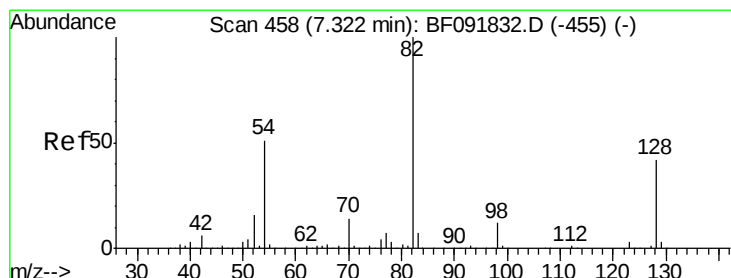
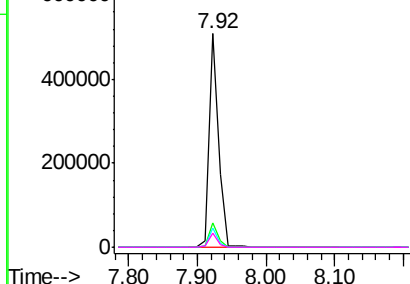
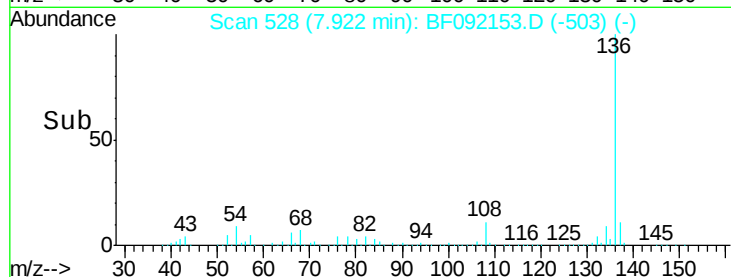


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 66.69 ng

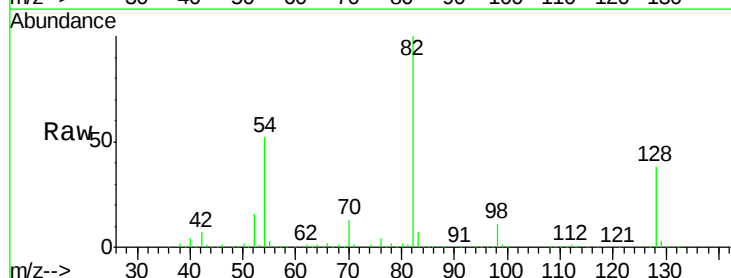
RT: 7.20 min Scan# 465

Delta R.T. -0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

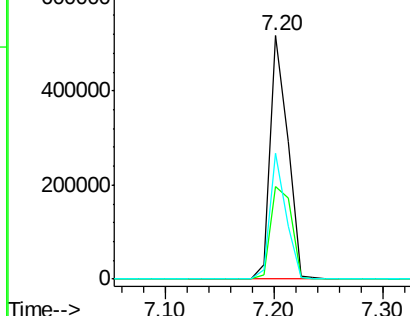
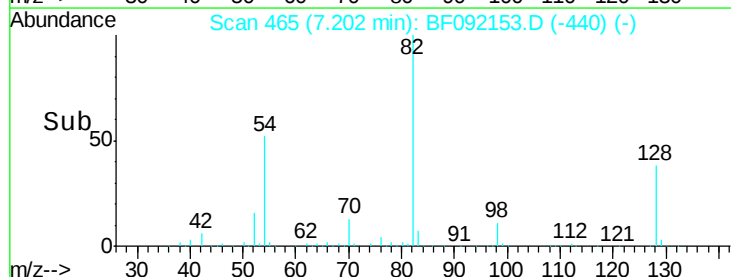
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	585791		
128	38.1	34.6	52.0	
54	51.7	39.5	59.3	

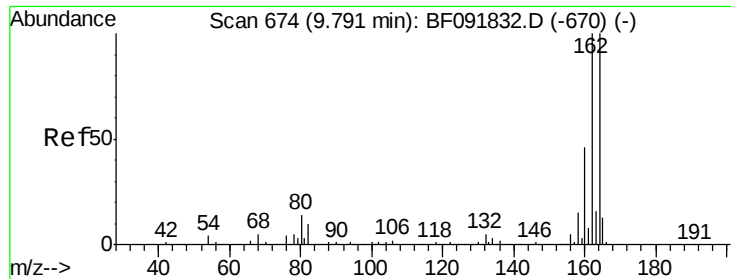


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

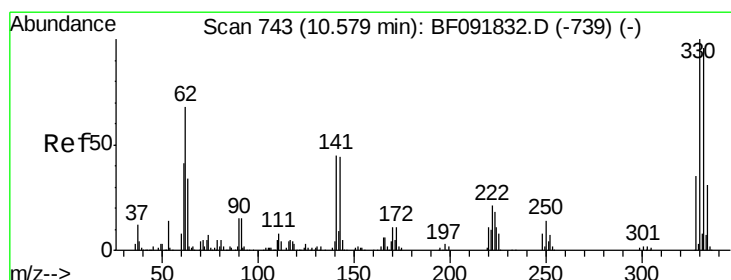
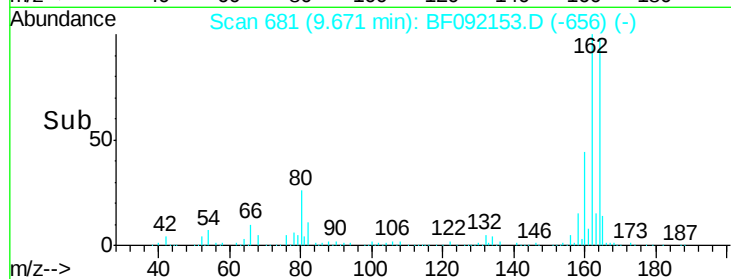
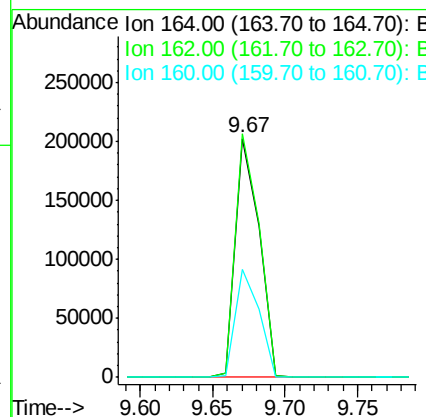
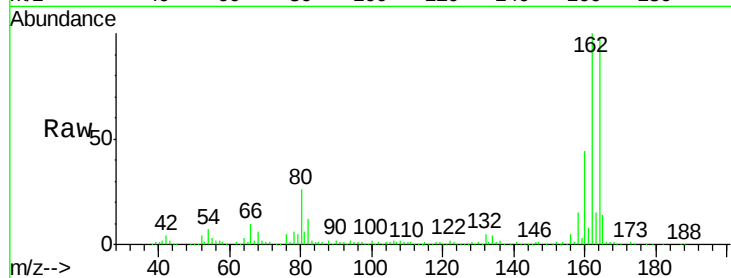
ClientSampled :

P3-SP8

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	230912		
162	102.0	80.2	120.2	
160	45.1	36.9	55.3	

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



#41

2,4,6-Tribromophenol

Concen: 38.86 ng

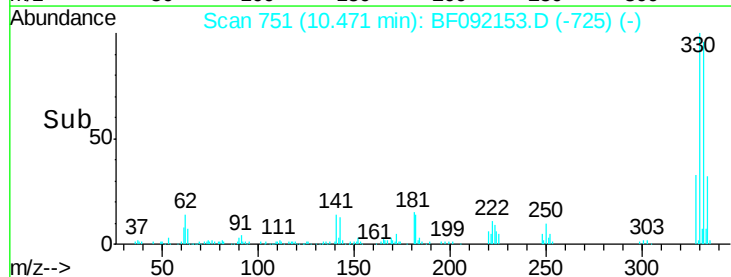
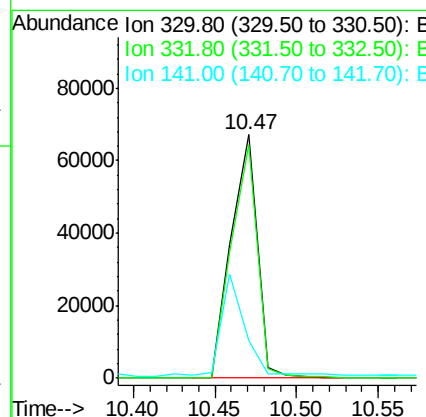
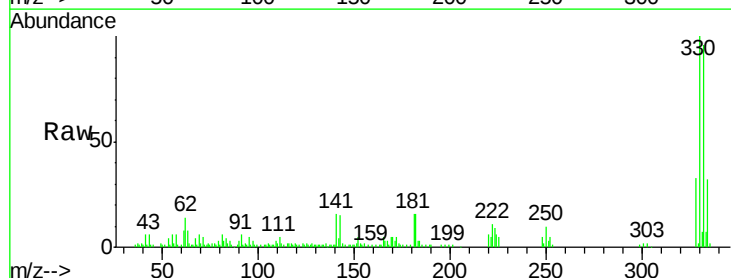
RT: 10.47 min Scan# 751

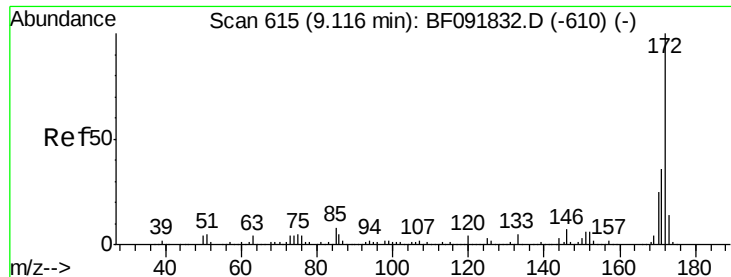
Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	74260		
332	95.6	77.4	116.2	
141	38.9	34.1	51.1	





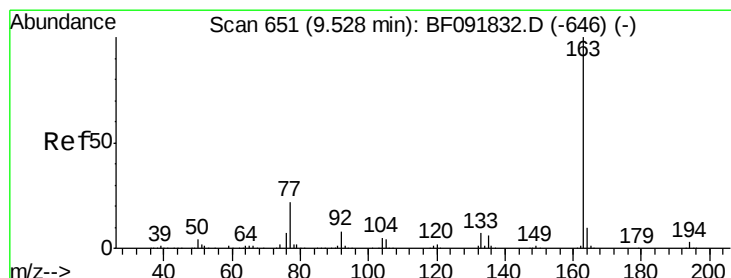
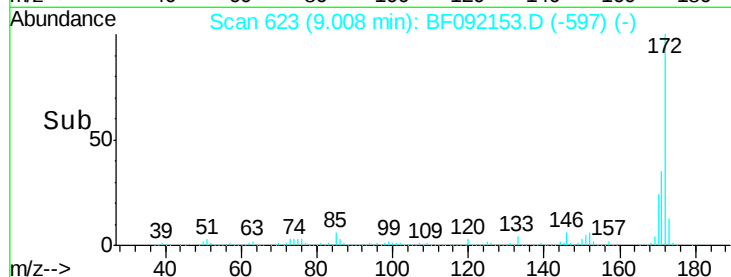
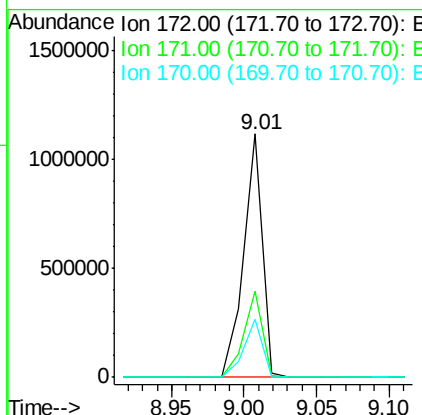
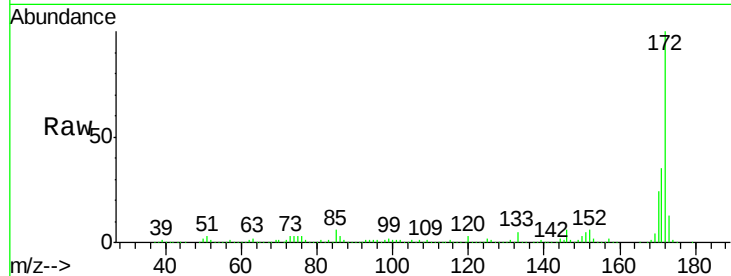
#44
2-Fluorobiphenyl
Concen: 89.19 ng
RT: 9.01 min Scan# 623
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampled :
P3-SP8

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	997991		
171	35.4		29.4	44.0
170	24.0		20.2	30.4

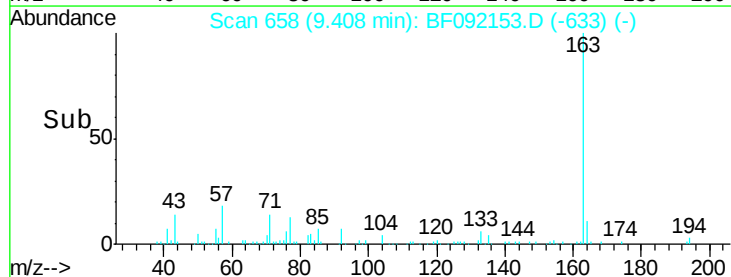
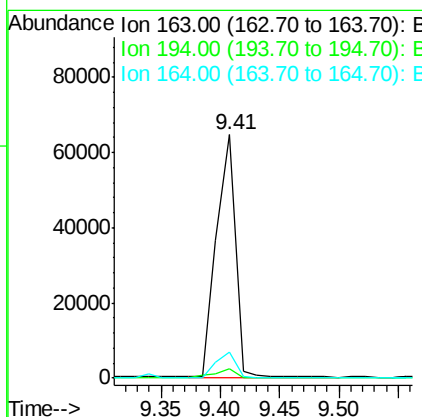
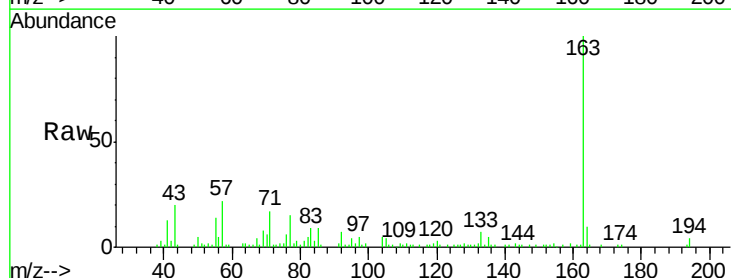
Manual Integrations
APPROVED

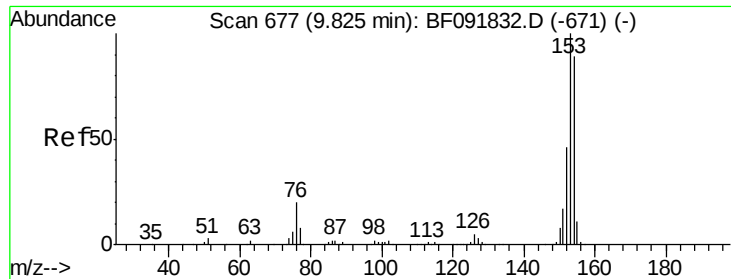
Sohil
1/10/2017 10:01:35 AM



#49
Dimethylphthalate
Concen: 4.97 ng
RT: 9.41 min Scan# 658
Delta R.T. -0.01 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	73389		
194	3.8		3.0	4.4
164	10.4		8.0	12.0





#51

Acenaphthene

Concen: 6.20 ng

RT: 9.70 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

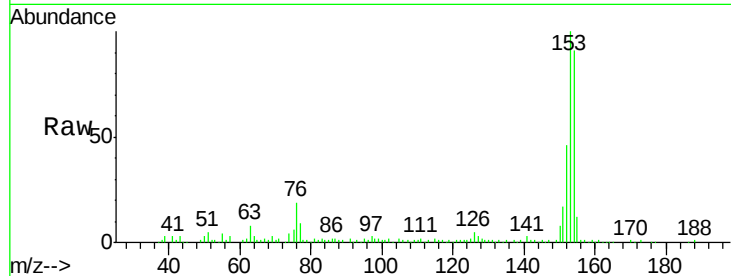
ClientSampled :

P3-SP8

Tgt Ion:	154	Resp:	80932
Ion Ratio	Lower	Upper	
154	100		
153	110.1	88.6	133.0
152	50.6	41.6	62.4

Manual Integrations
APPROVED

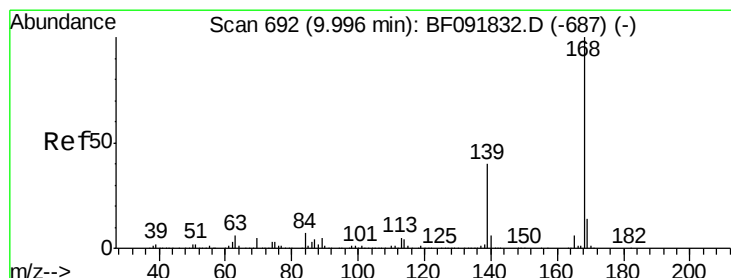
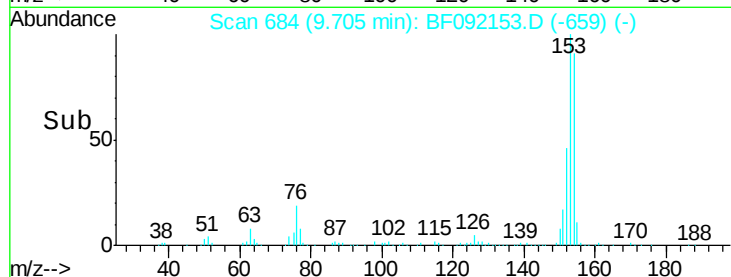
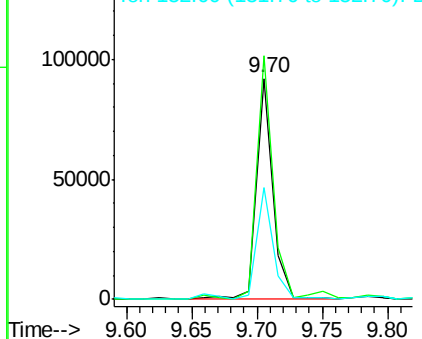
Sohil
1/10/2017 10:01:35 AM



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: 4.26 ng

RT: 9.88 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF092153.D

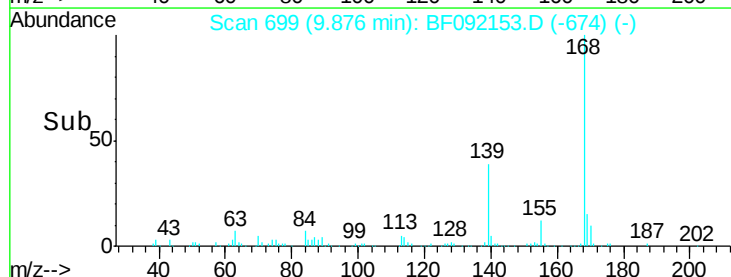
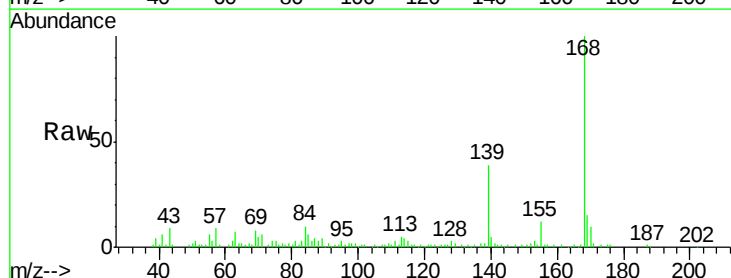
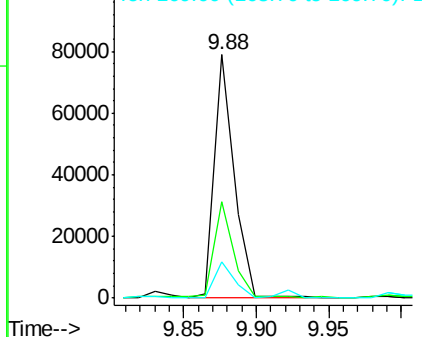
Acq: 9 Jan 2017 22:23

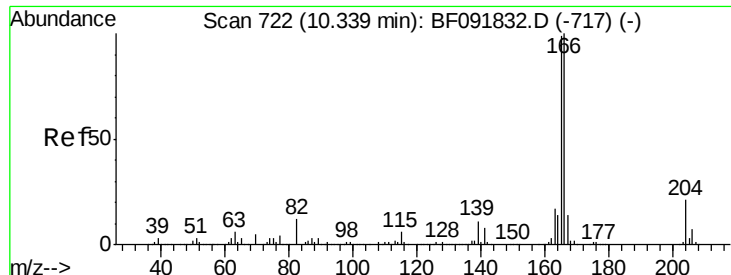
Tgt Ion:	168	Resp:	75159
Ion Ratio	Lower	Upper	
168	100		
139	39.4	32.6	49.0
169	15.1	11.3	16.9

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





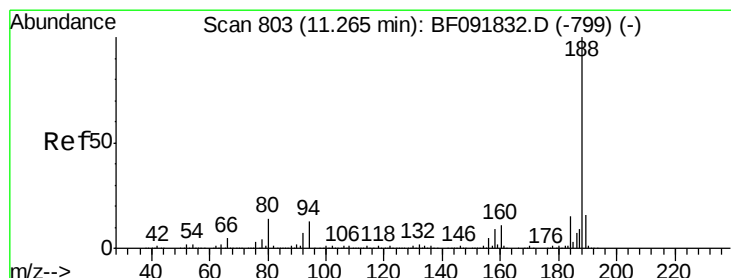
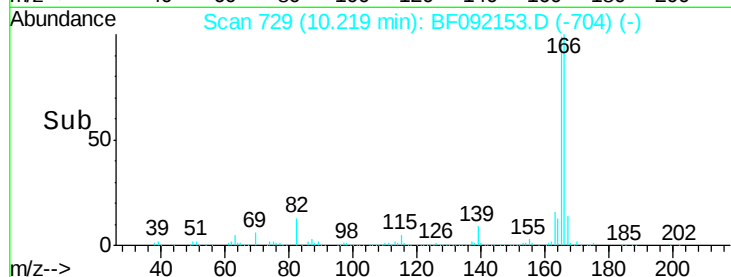
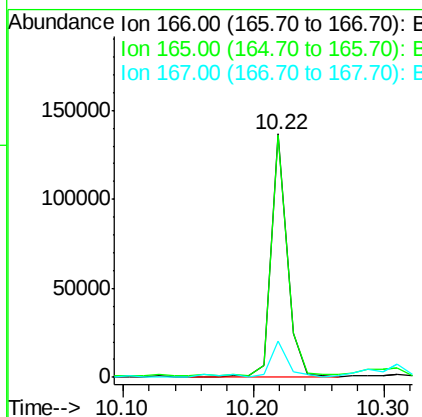
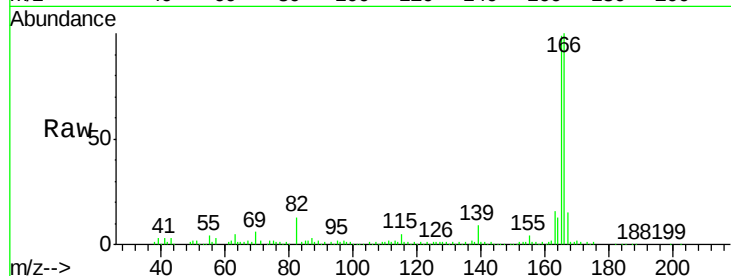
#57
Fluorene
Concen: 9.10 ng
RT: 10.22 min Scan# 729
Delta R.T. -0.01 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampleId :
P3-SP8

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	116692		
165	99.3	77.8	116.8	
167	14.8	10.8	16.2	

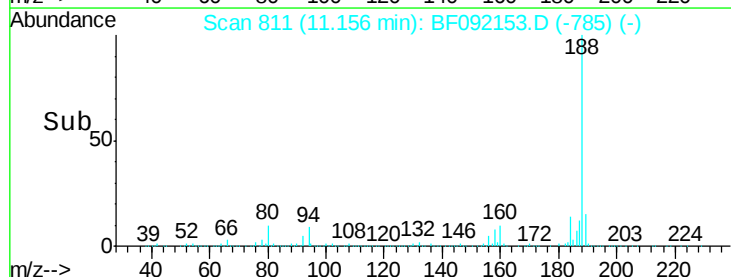
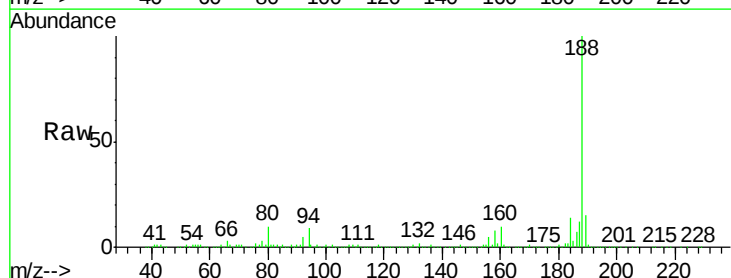
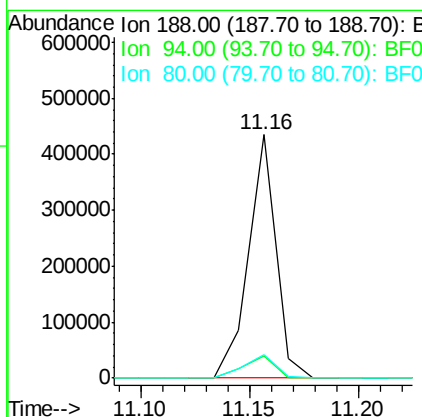
Manual Integrations
APPROVED

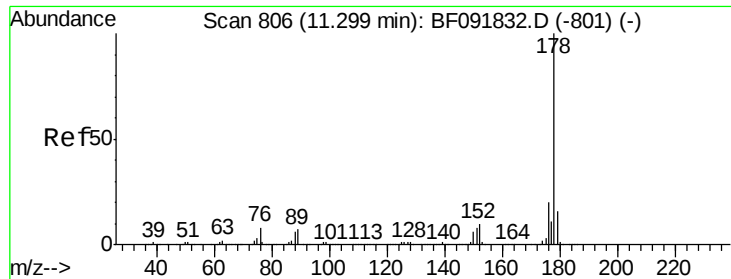
Sohil
1/10/2017 10:01:35 AM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.16 min Scan# 811
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	382325		
94	8.9	10.0	15.0#	
80	9.7	11.2	16.8#	





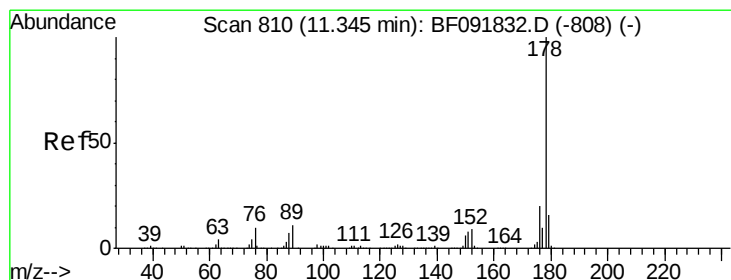
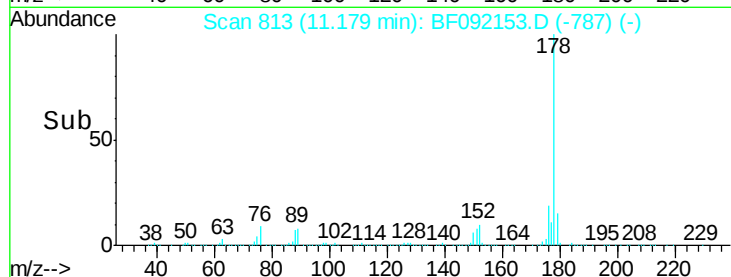
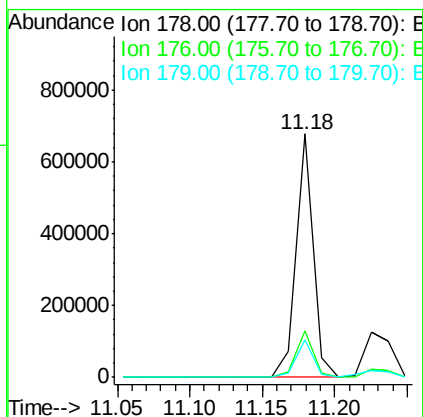
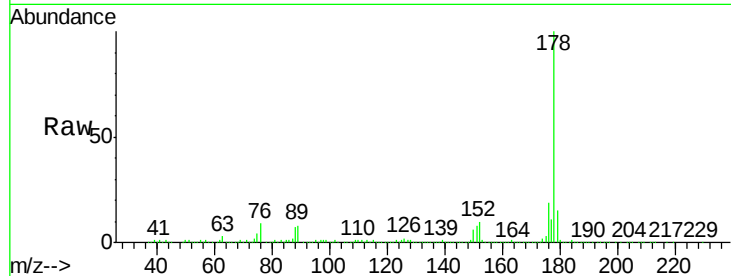
#70
Phenanthrene
Concen: 26.77 ng
RT: 11.18 min Scan# 813
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampleId :
P3-SP8

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	25.0
179	15.3	12.8	19.2

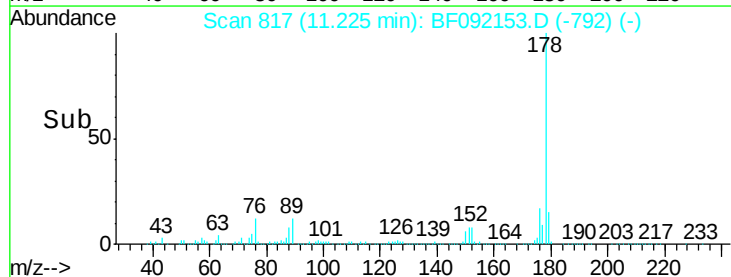
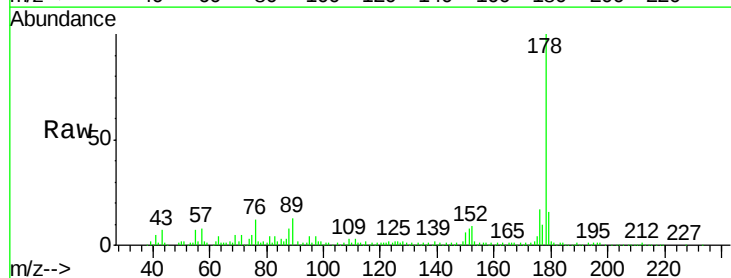
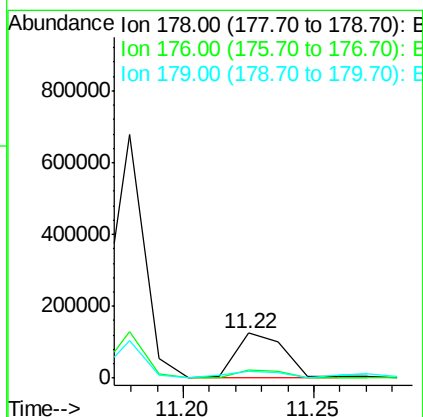
Manual Integrations
APPROVED

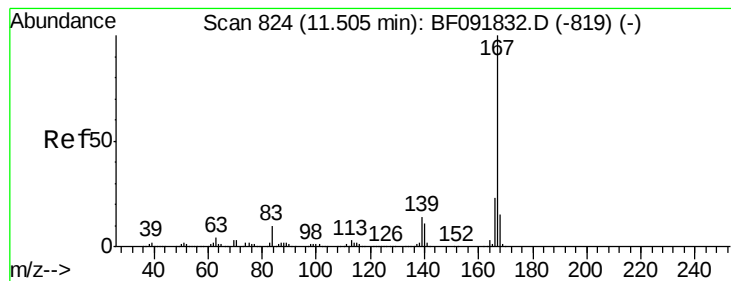
Sohil
1/10/2017 10:01:35 AM



#71
Anthracene
Concen: 6.04 ng
RT: 11.22 min Scan# 817
Delta R.T. -0.01 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.3	15.9	23.9
179	15.6	13.2	19.8





#72

Carbazole

Concen: 2.58 ng

RT: 11.40 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

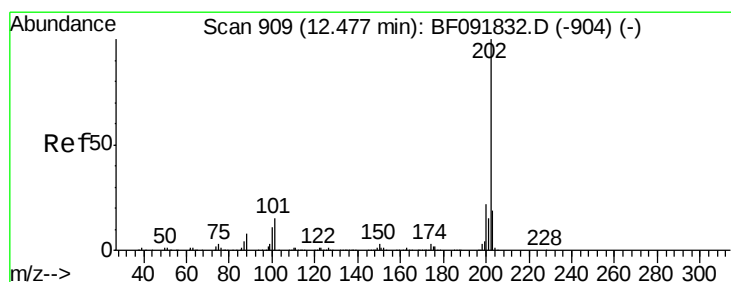
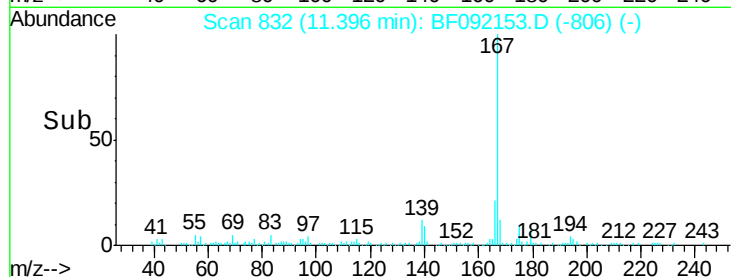
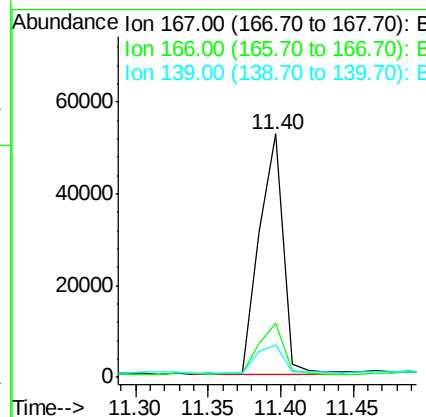
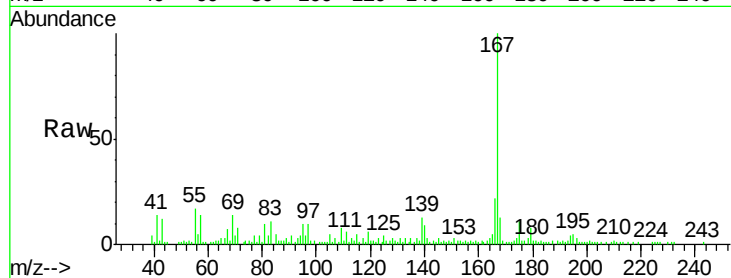
ClientSampleId :

P3-SP8

Tgt Ion:	167	Resp:	60224
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.2	27.2
139	13.2	11.4	17.2

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



#74

Fluoranthene

Concen: 23.63 ng

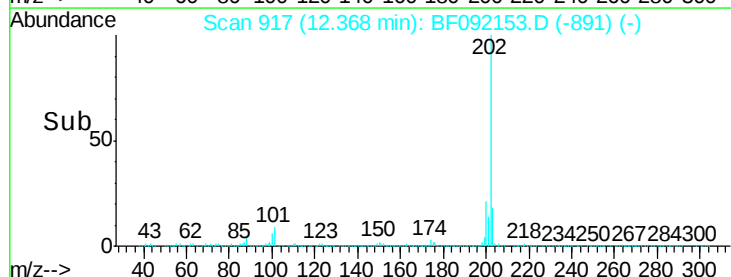
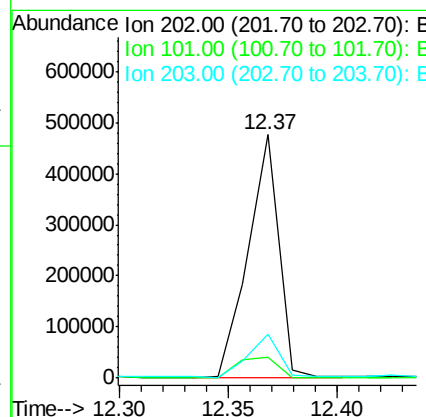
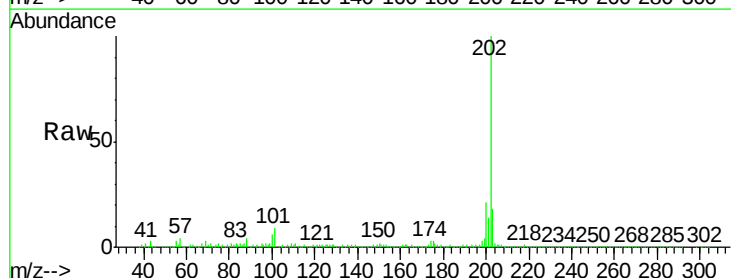
RT: 12.37 min Scan# 917

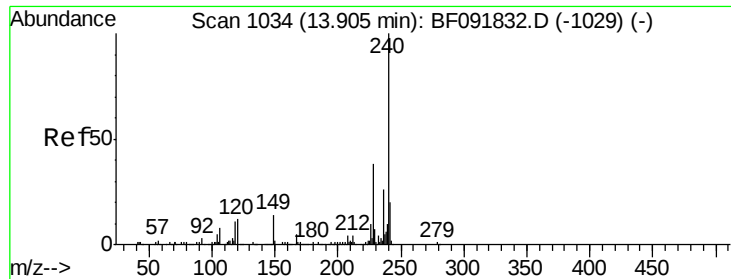
Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Tgt Ion:	202	Resp:	462798
Ion Ratio	Lower	Upper	
202	100		
101	8.8	0.0	34.6
203	18.1	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.79 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

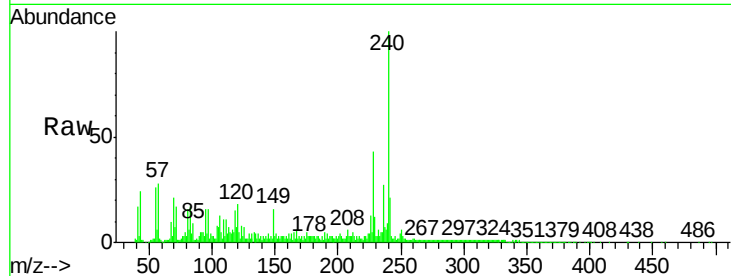
ClientSampleId :

P3-SP8

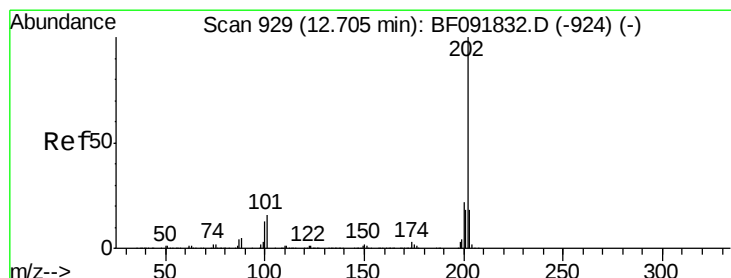
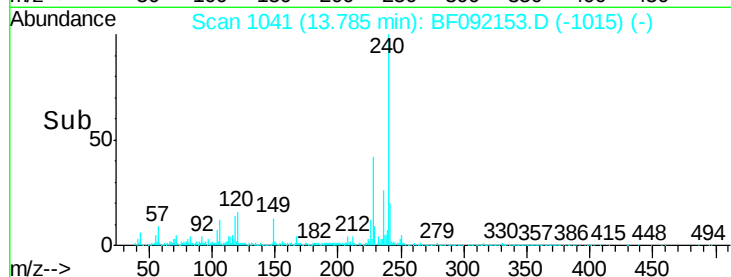
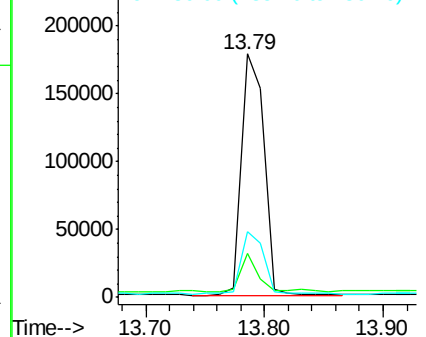
Tgt Ion:	240	Resp:	235465
Ion Ratio	Lower	Upper	
240	100		
120	18.0	12.9	19.3
236	26.8	20.9	31.3

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



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: 20.26 ng

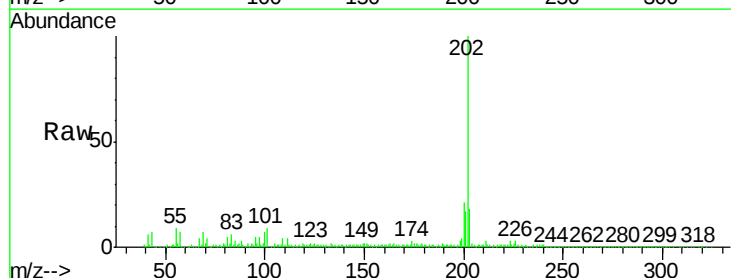
RT: 12.60 min Scan# 937

Delta R.T. 0.01 min

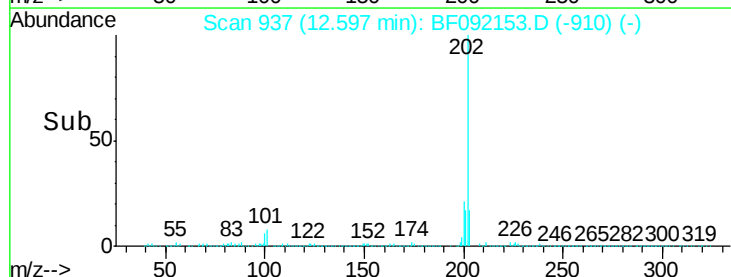
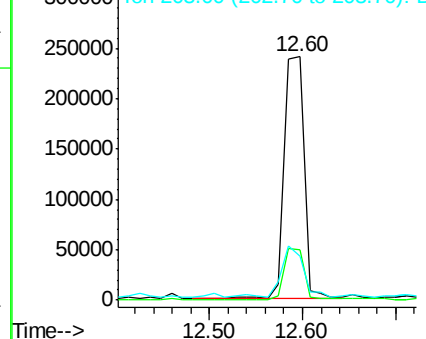
Lab File: BF092153.D

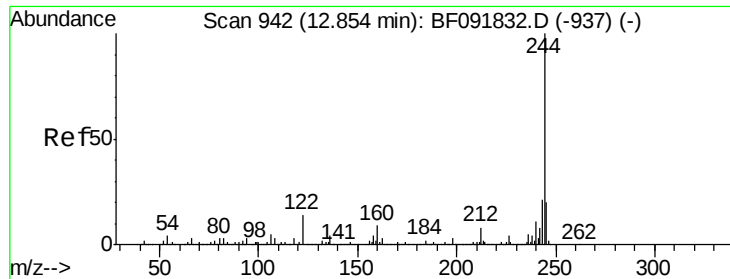
Acq: 9 Jan 2017 22:23

Tgt Ion:	202	Resp:	349954
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.7	26.5
203	18.1	14.7	22.1



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





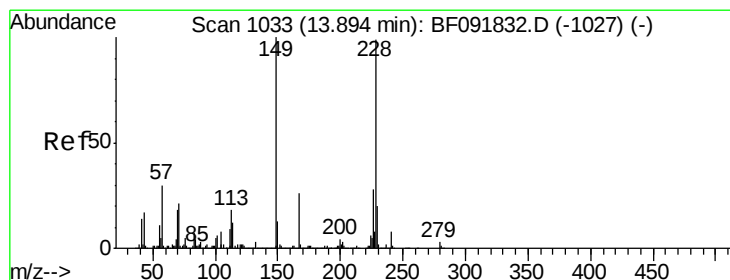
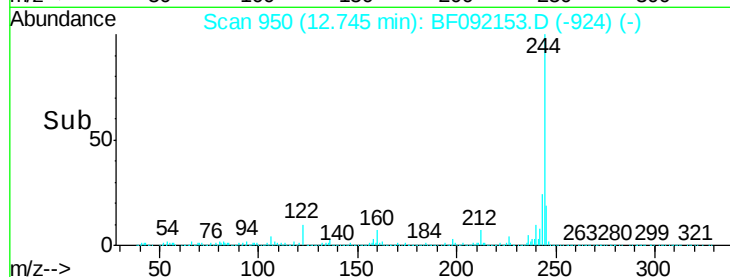
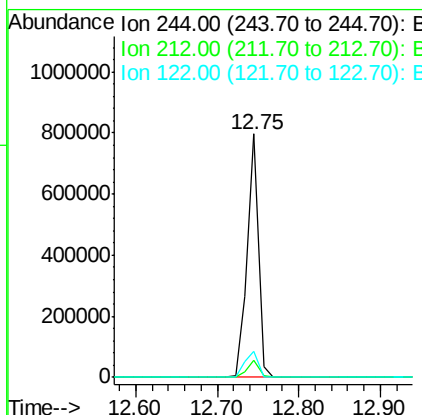
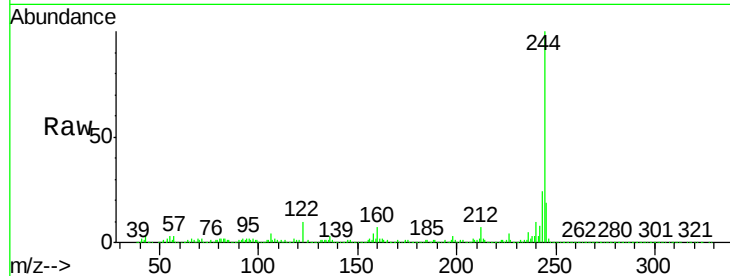
#78
 Terphenyl-d14
 Concen: 77.88 ng
 RT: 12.75 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: BF092153.D
 Acq: 9 Jan 2017 22:23

Instrument :
 BNA_F
 ClientSampled :
 P3-SP8

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.2	9.2
122	10.5	11.4	17.2#

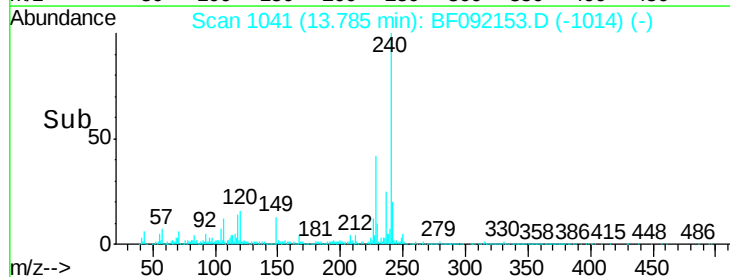
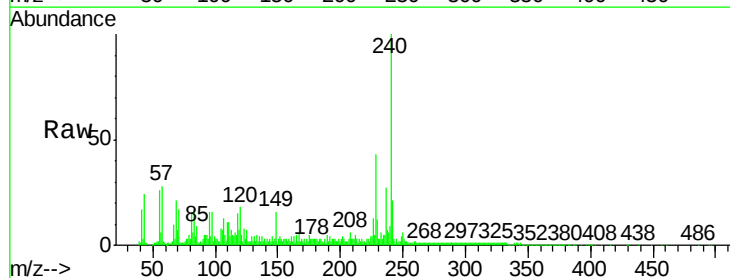
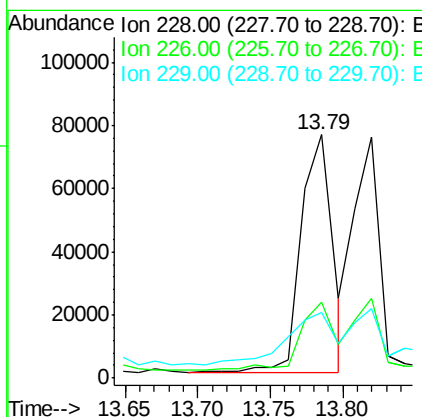
Manual Integrations
 APPROVED

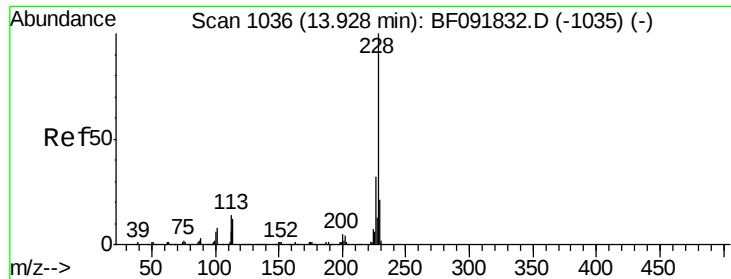
Sohil
 1/10/2017 10:01:35 AM



#80
 Benzo(a)anthracene
 Concen: 8.61 ng
 RT: 13.79 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: BF092153.D
 Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.4	33.6
229	26.8	16.2	24.4#





#82

Chrysene

Concen: 7.38 ng m

RT: 13.82 min Scan# 1044

Delta R.T. 0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

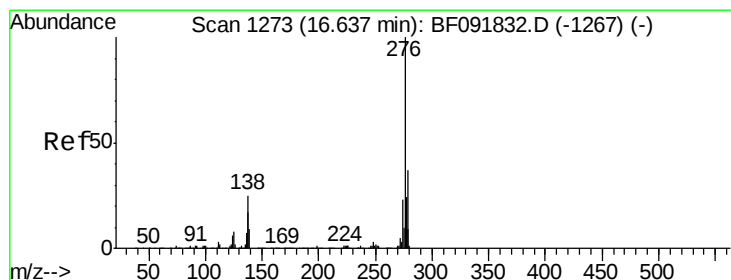
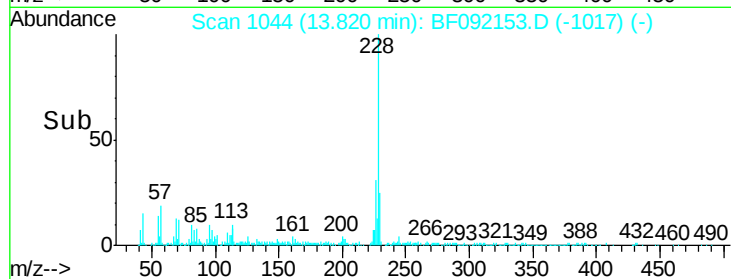
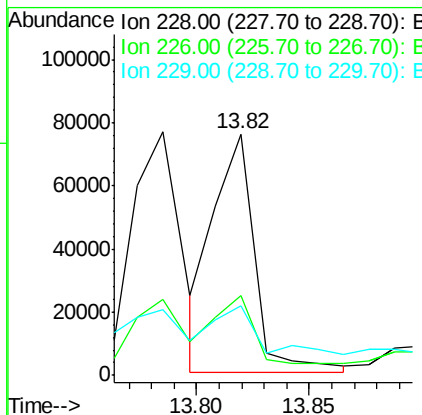
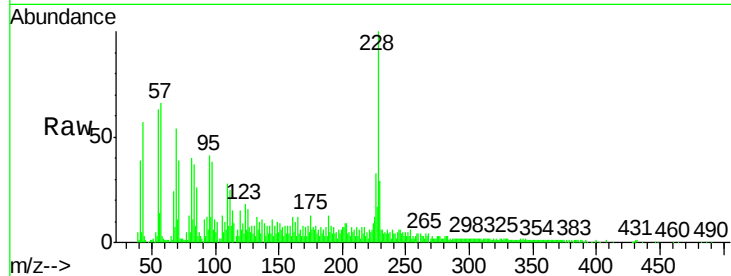
ClientSampled :

P3-SP8

Tgt Ion:	228	Resp:	98370
Ion Ratio	Lower	Upper	
228	100		
226	33.3	25.4	38.0
229	28.8	16.2	24.2#

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.41 ng

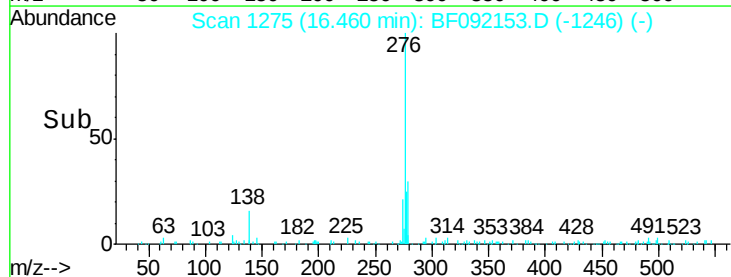
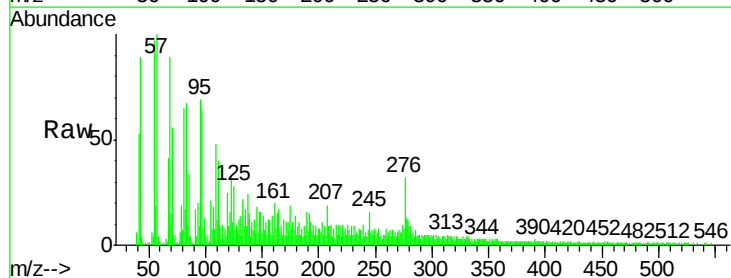
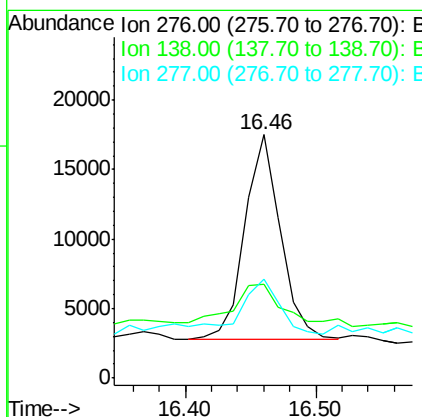
RT: 16.46 min Scan# 1275

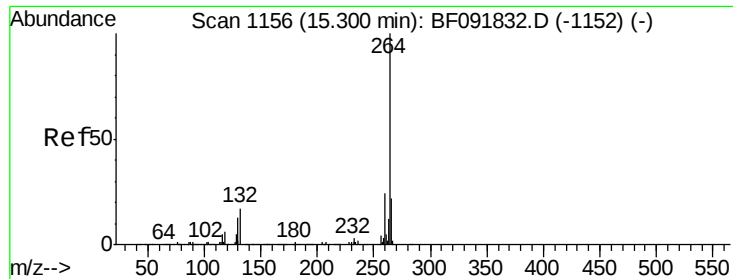
Delta R.T. 0.03 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Tgt Ion:	276	Resp:	27889
Ion Ratio	Lower	Upper	
276	100		
138	27.0	21.8	32.6
277	35.6	20.2	30.4#





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.17 min Scan# 1162

Delta R.T. 0.02 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Instrument :

BNA_F

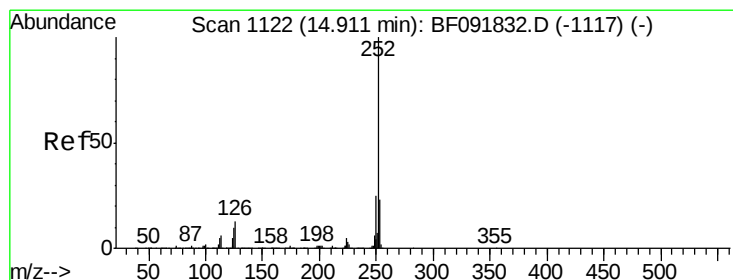
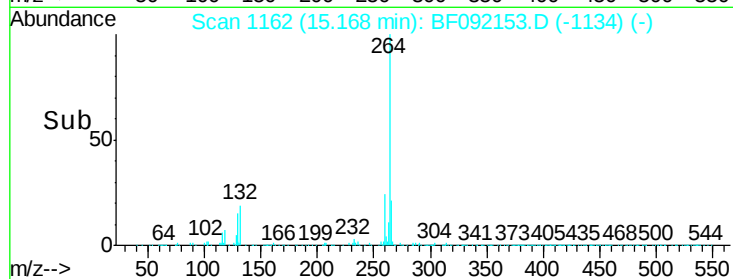
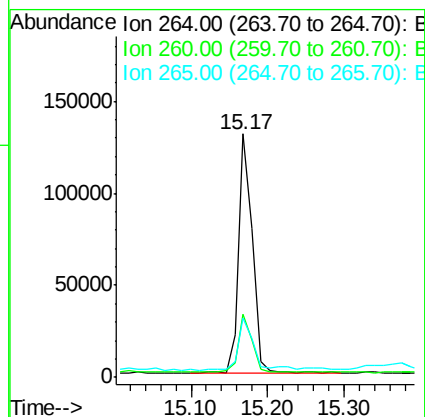
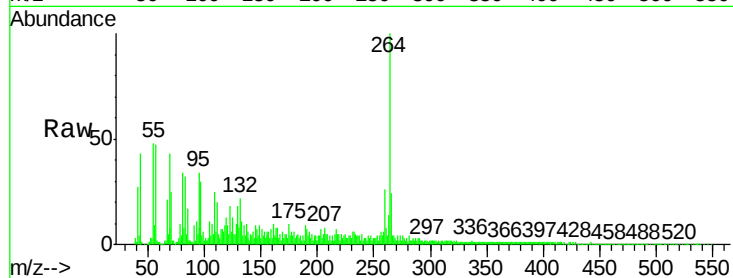
ClientSampleId :

P3-SP8

Tgt Ion:	264	Resp:	168044
Ion Ratio	Lower	Upper	
264	100		
260	25.8	19.2	28.8
265	24.2	17.4	26.0

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM



#87

Benzo(b)fluoranthene

Concen: 7.37 ng m

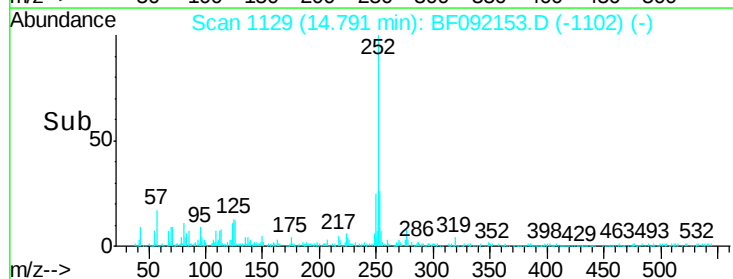
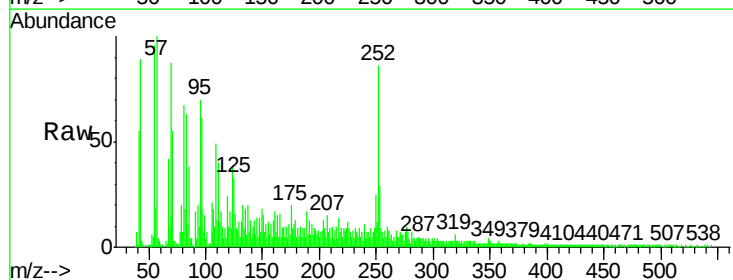
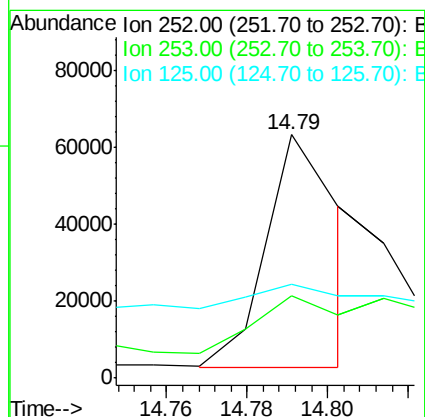
RT: 14.79 min Scan# 1129

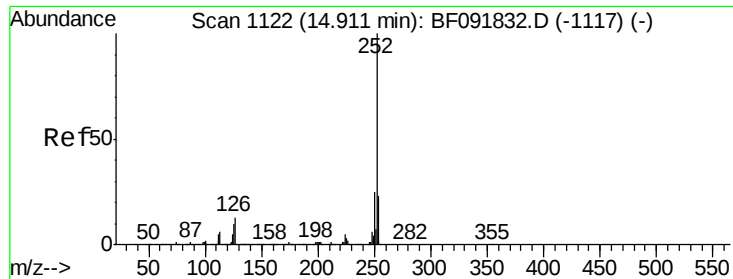
Delta R.T. 0.01 min

Lab File: BF092153.D

Acq: 9 Jan 2017 22:23

Tgt Ion:	252	Resp:	77089
Ion Ratio	Lower	Upper	
252	100		
253	33.6	18.2	27.4#
125	38.6	9.8	14.6#





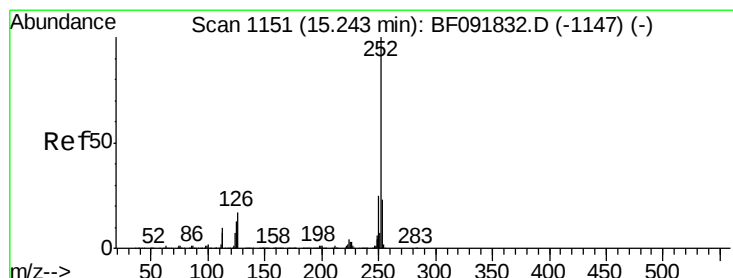
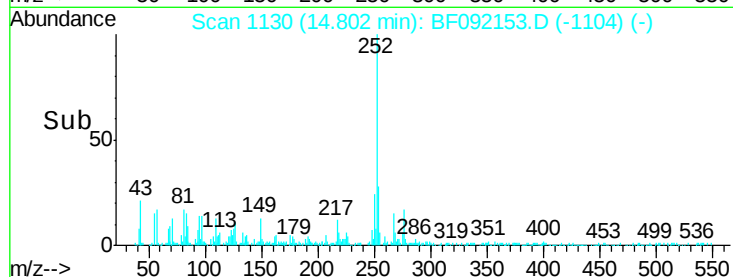
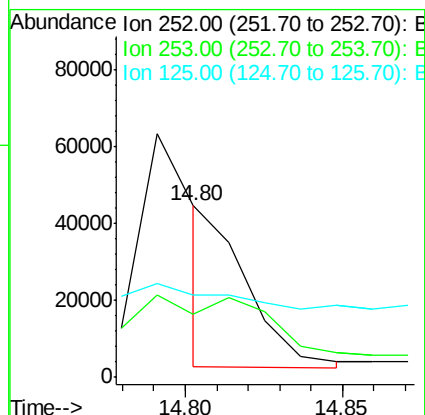
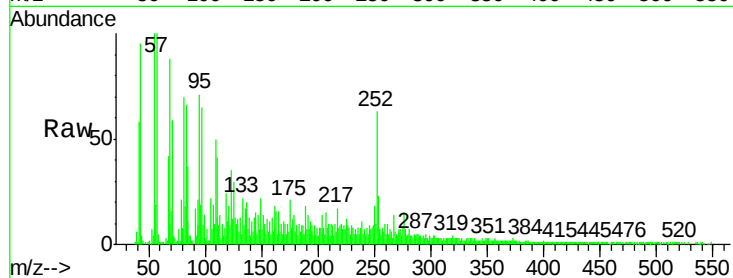
#88
Benzo(k)fluoranthene
Concen: 3.81 ng m
RT: 14.80 min Scan# 1130
Delta R.T. 0.00 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampleId :
P3-SP8

Tgt Ion	Ratio	Lower	Upper
252	100		
253	37.0	18.5	27.7#
125	47.6	8.9	13.3#

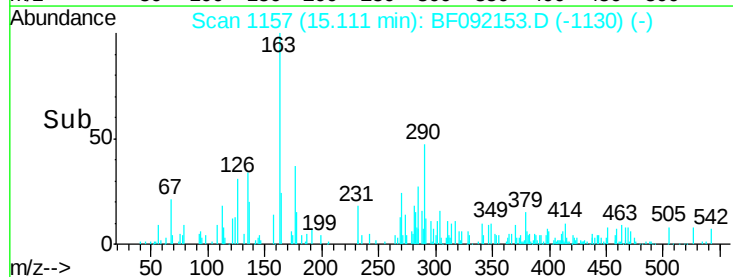
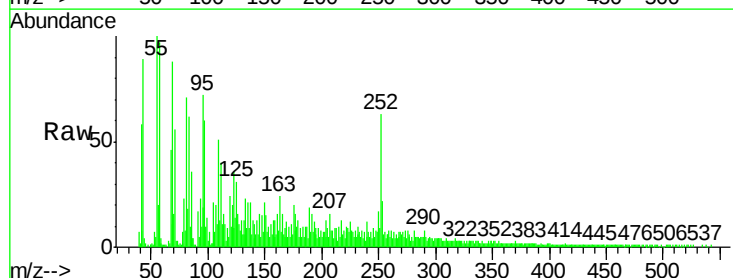
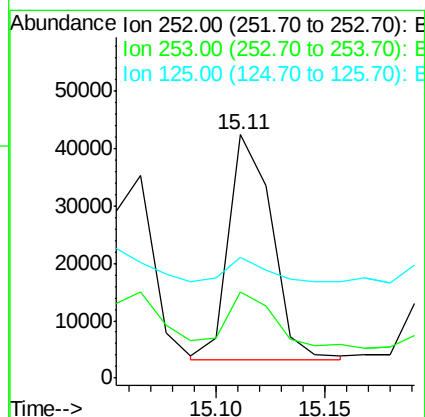
Manual Integrations
APPROVED

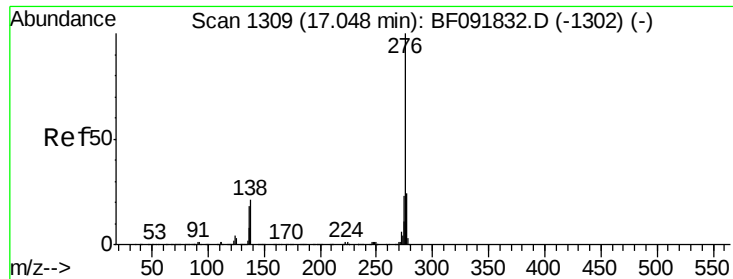
Sohil
1/10/2017 10:01:35 AM



#89
Benzo(a)pyrene
Concen: 5.82 ng
RT: 15.11 min Scan# 1157
Delta R.T. 0.01 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	35.4	18.2	27.2#
125	49.5	10.0	15.0#





#91
Benzo(g,h,i)perylene
Concen: 3.81 ng
RT: 16.85 min Scan# 1309
Delta R.T. 0.05 min
Lab File: BF092153.D
Acq: 9 Jan 2017 22:23

Instrument :
BNA_F
ClientSampleId :
P3-SP8

Tgt Ion	Ratio	Lower	Upper
276	100		
277	41.1	19.2	28.8#
138	40.6	16.0	24.0#

Manual Integrations
APPROVED

Sohil
1/10/2017 10:01:35 AM

