

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
 Data File : BF088351.D
 Acq On : 25 Jun 2016 00:42
 Operator : UM/SJ
 Sample : H3598-10 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)

Manual Integrations
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Quant Time: Jun 27 12:37:05 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 25 04:10:42 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.58	152	72959m	20.00	ng	0.00
21) Naphthalene-d8	7.87	136	281153	20.00	ng	0.00
38) Acenaphthene-d10	9.61	164	113862	20.00	ng	-0.01
63) Phenanthrene-d10	11.10	188	169192	20.00	ng	0.00
75) Chrysene-d12	13.74	240	135713	20.00	ng	0.01
86) Perylene-d12	15.10	264	133337	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.16	112	223607	52.39	ng	0.00
7) Phenol-d6	6.25	99	280608	54.25	ng	-0.01
23) Nitrobenzene-d5	7.15	82	180834	37.56	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	43734	36.38	ng	0.00
44) 2-Fluorobiphenyl	8.95	172	332322	43.12	ng	-0.01
78) Terphenyl-d14	12.67	244	201545	33.79	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.90	128	33786	2.43	ng	100
37) 2-Methylnaphthalene	8.58	142	21198m	2.31	ng	
48) Acenaphthylene	9.47	152	343520	29.31	ng	99
49) Dimethylphthalate	9.35	163	38371	4.65	ng	100
54) Dibenzofuran	9.83	168	25203	2.50	ng	# 92
57) Fluorene	10.16	166	54753	3.60	ng	95
70) Phenanthrene	11.12	178	427485	48.15	ng	99
71) Anthracene	11.17	178	355832	39.73	ng	99
72) Carbazole	11.34	167	63425	7.57	ng	99
74) Fluoranthene	12.31	202	1565429	167.08	ng	98
77) Pyrene	12.54	202	1558575	154.76	ng	99
79) Butylbenzylphthalate	13.15	149	15970	3.59	ng	95
80) Benzo(a)anthracene	13.73	228	1036159m	133.98	ng	
82) Chrysene	13.76	228	929154m	127.70	ng	
85) Indeno(1,2,3-cd)pyrene	16.34	276	372609	55.12	ng	# 100
87) Benzo(b)fluoranthene	14.73	252	1388010m	149.35	ng	
88) Benzo(k)fluoranthene	14.75	252	135034m	19.26	ng	
89) Benzo(a)pyrene	15.05	252	690369m	91.82	ng	
90) Dibenzo(a,h)anthracene	16.34	278	103395m	14.81	ng	
91) Benzo(g,h,i)perylene	16.72	276	315631	43.94	ng	98

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

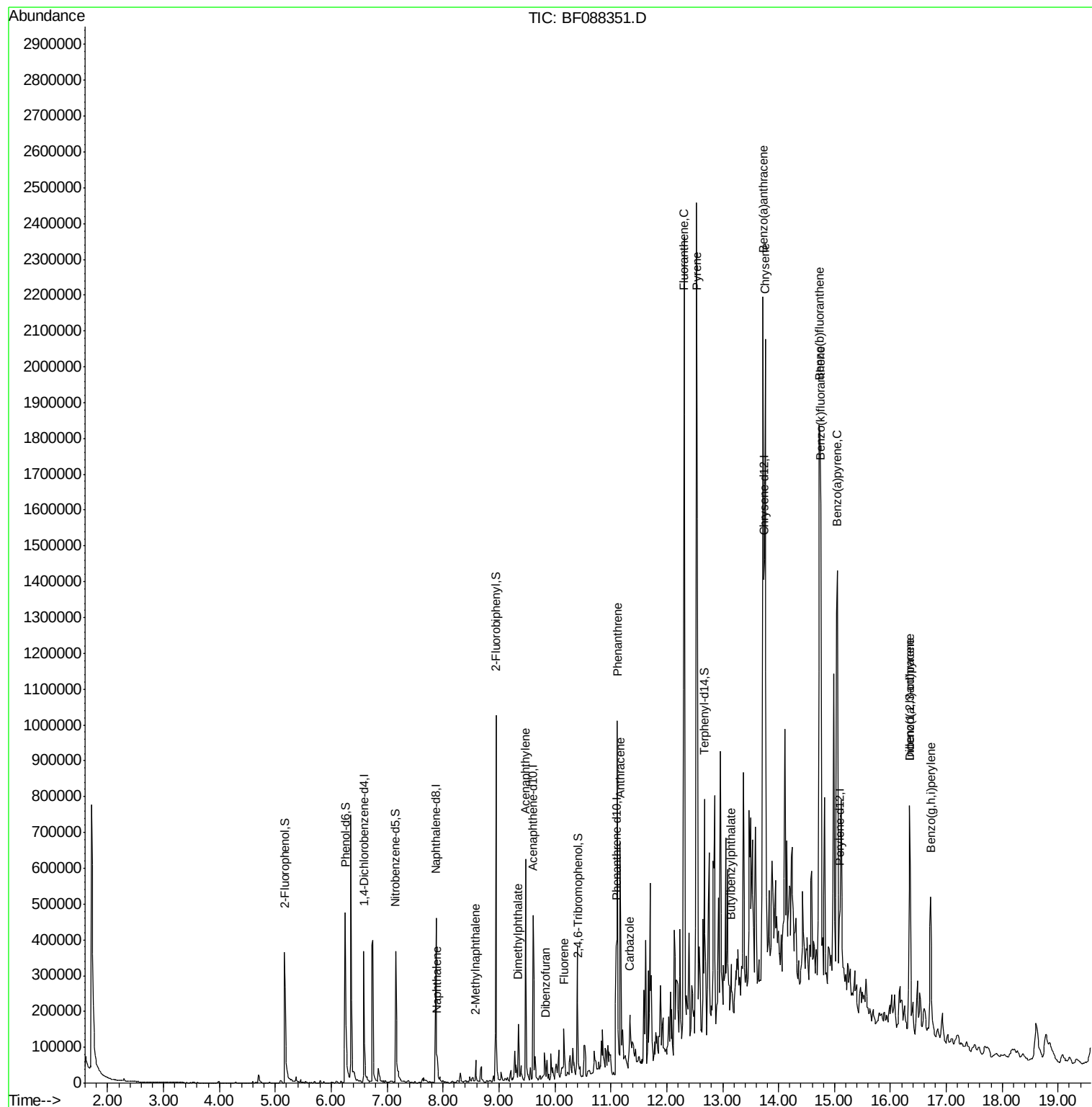
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062416\
Data File : BF088351.D
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ALS Vial : 21 Sample Multiplier: 1

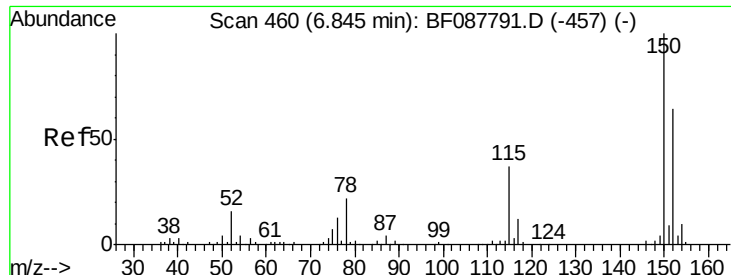
Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

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Quant Time: Jun 27 12:37:05 2016
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#1

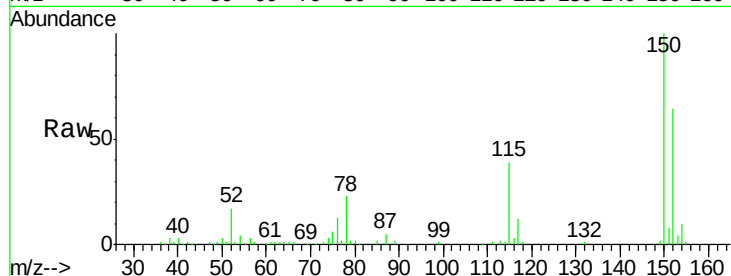
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.58 min Scan# 437
Delta R.T. 0.00 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

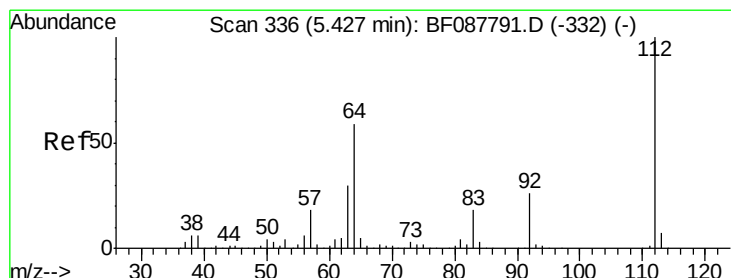
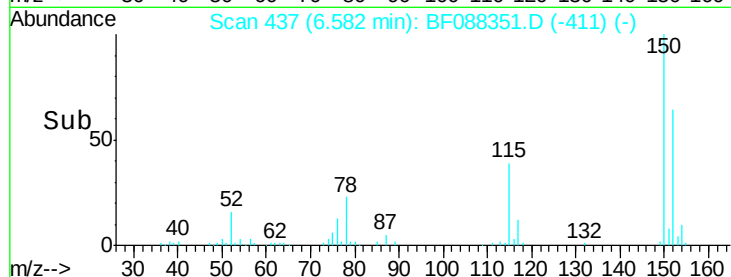
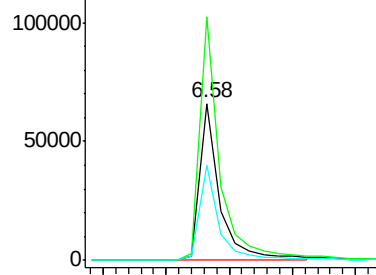
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.1	123.8	185.6
115	60.3	39.6	59.4

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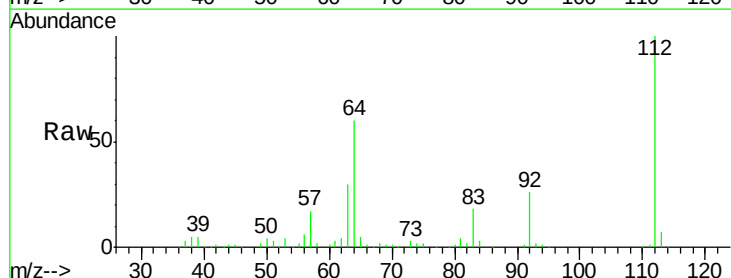
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



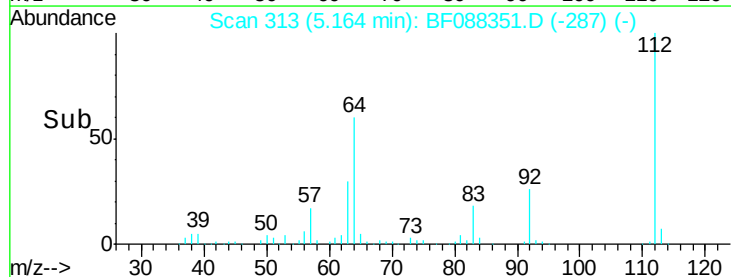
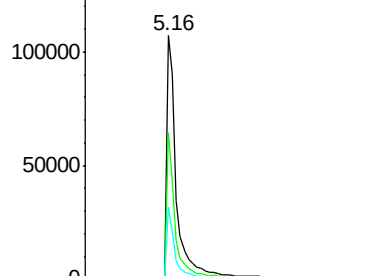
#5

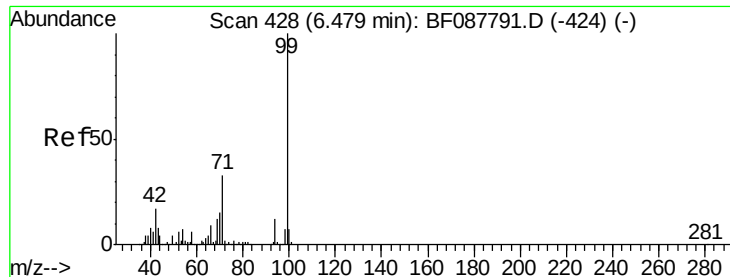
2-Fluorophenol
Concen: 52.39 ng
RT: 5.16 min Scan# 313
Delta R.T. 0.00 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	42.2	63.2
63	29.7	21.8	32.8



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





#7

Phenol-d6

Concen: 54.25 ng

RT: 6.25 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF088351.D

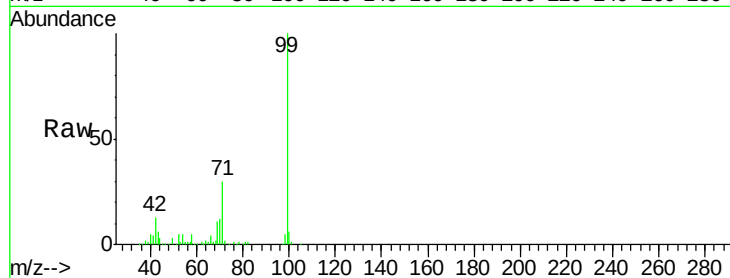
Acq: 25 Jun 2016 00:42

Instrument :

BNA_F

ClientSampleId :

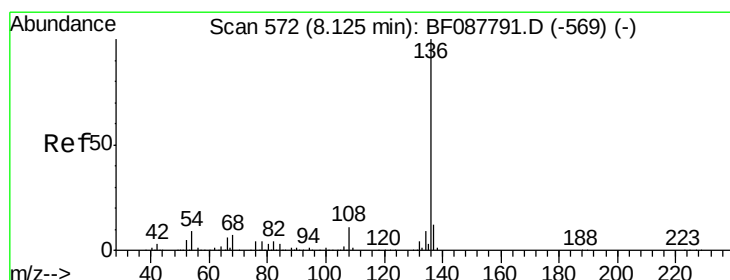
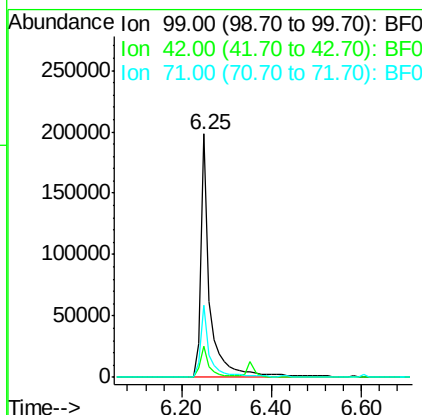
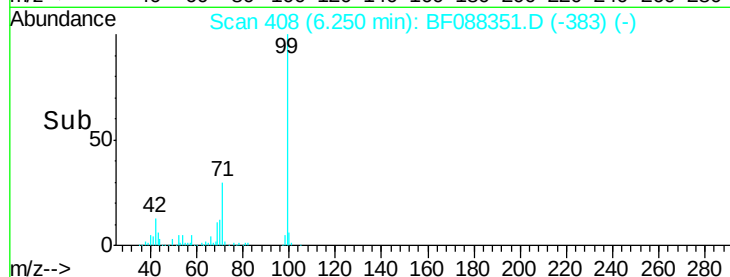
PM-STA-1381(0-4)



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		280608		
42	12.6	12.2	18.2		
71	29.8	23.4	35.0		

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#21

Naphthalene-d8

Concen: 20.00 ng

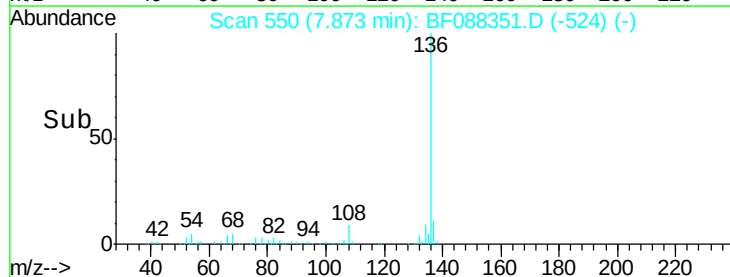
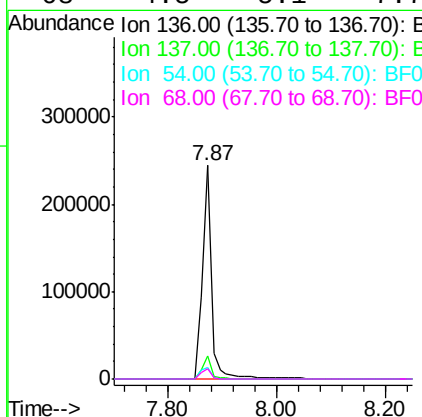
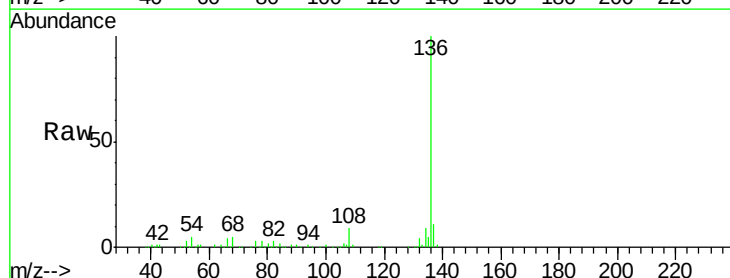
RT: 7.87 min Scan# 550

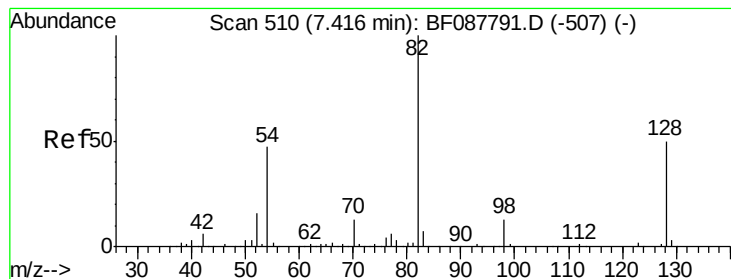
Delta R.T. 0.00 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		281153		
137	10.6	9.1	13.7		
54	5.3	6.6	10.0#		
68	4.5	5.1	7.7#		





#23

Nitrobenzene-d5

Concen: 37.56 ng

RT: 7.15 min Scan# 487

Delta R.T. -0.01 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Instrument :

BNA_F

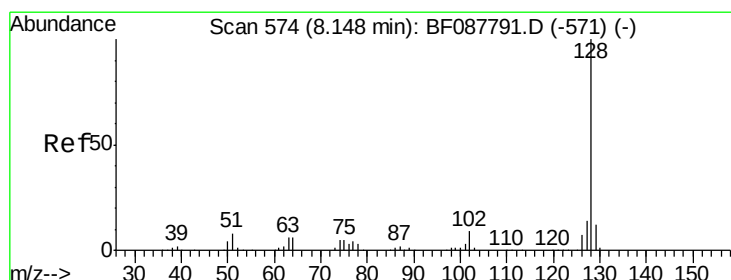
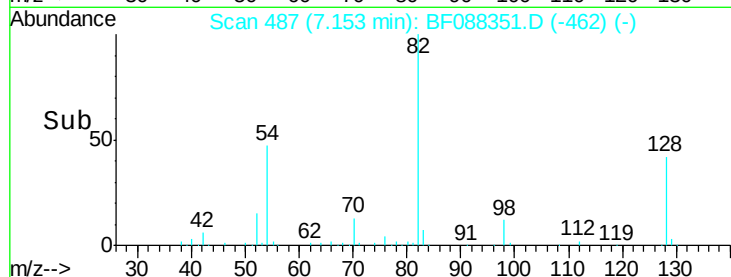
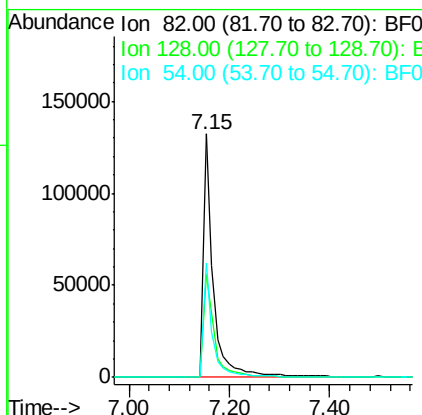
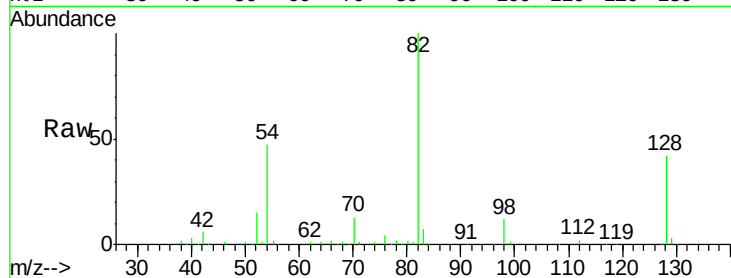
ClientSampleId :

PM-STA-1381(0-4)

Tgt Ion:	82	Resp:	180834
Ion Ratio	Lower	Upper	
82	100		
128	42.1	35.9	53.9
54	46.7	40.9	61.3

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#31

Naphthalene

Concen: 2.43 ng

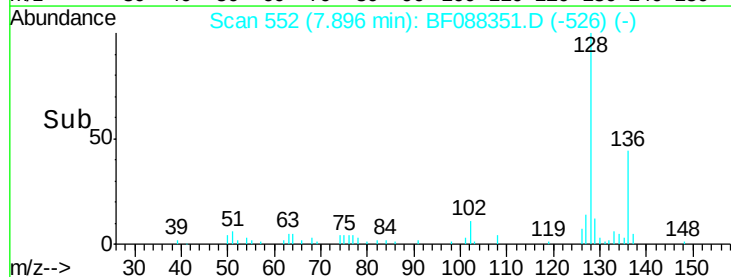
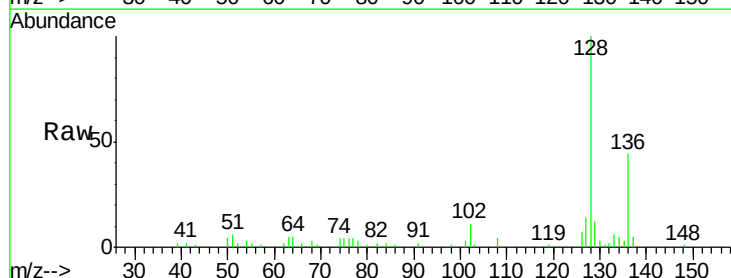
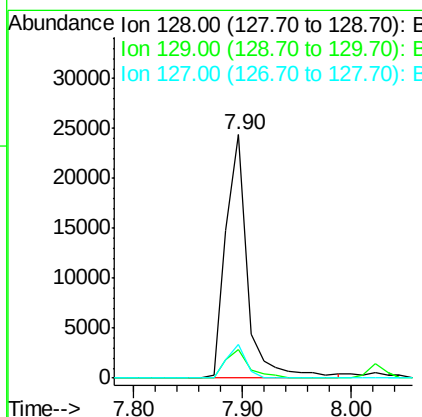
RT: 7.90 min Scan# 552

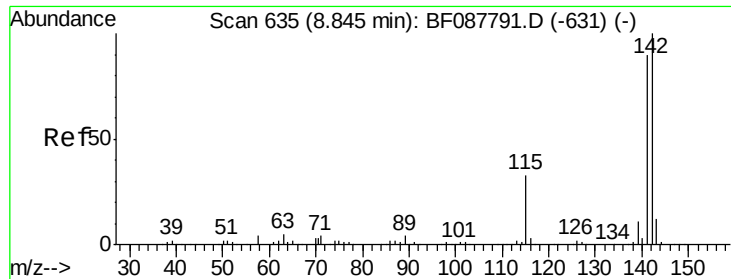
Delta R.T. 0.00 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Tgt Ion:	128	Resp:	33786
Ion Ratio	Lower	Upper	
128	100		
129	11.5	9.4	14.2
127	13.6	10.9	16.3





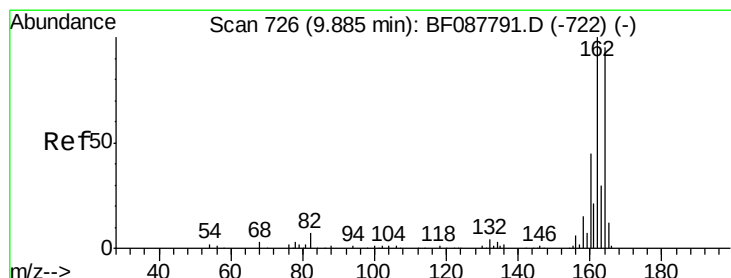
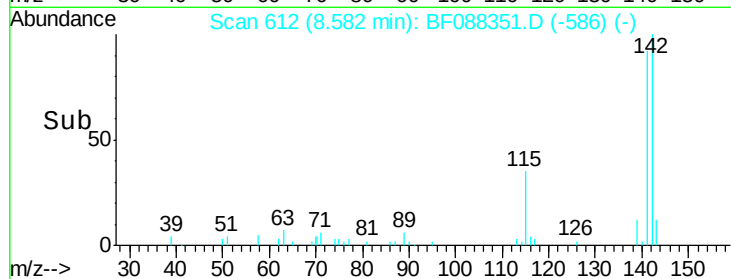
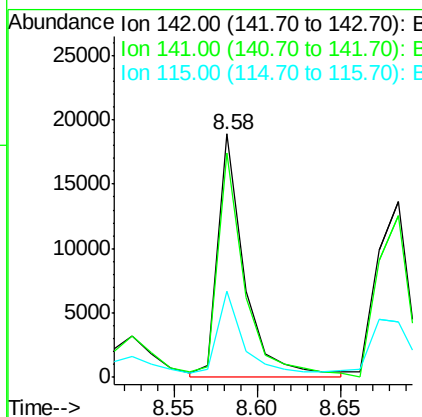
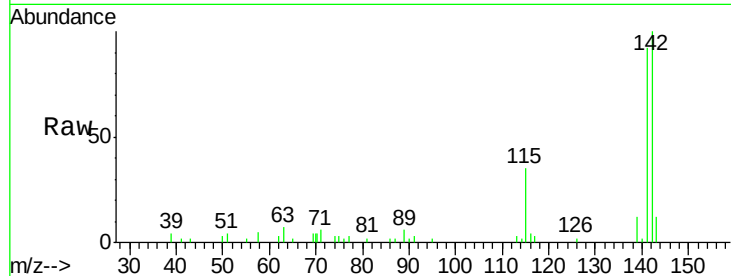
#37
2-Methylnaphthalene
Concen: 2.31 ng m
RT: 8.58 min Scan# 612
Delta R.T. 0.00 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	71.0	106.6
115	35.2	22.6	33.8

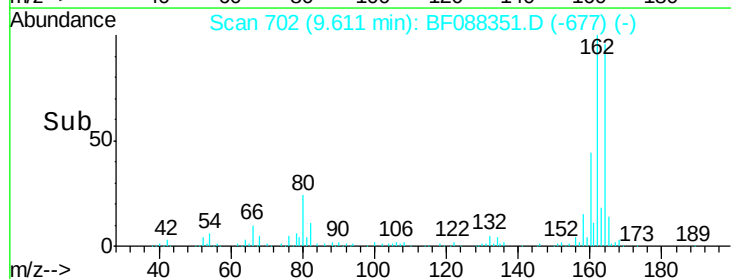
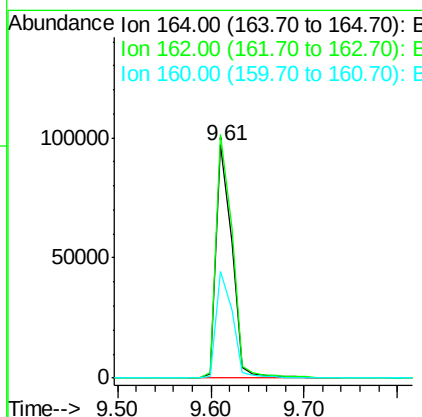
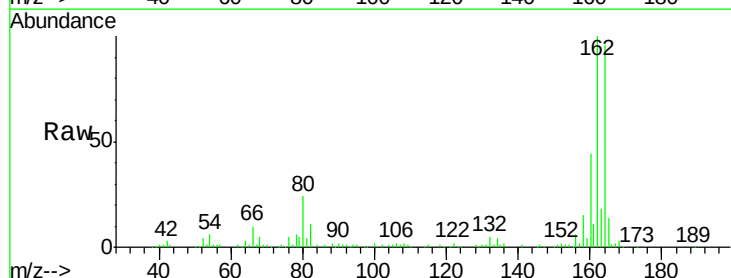
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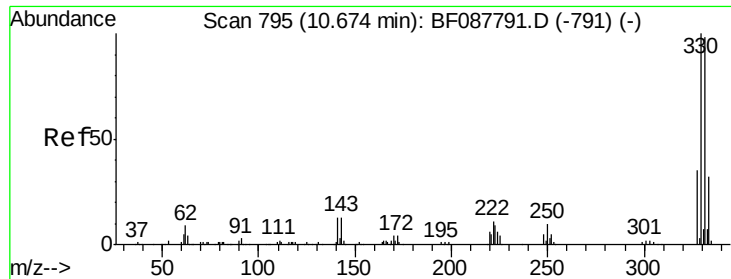
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.61 min Scan# 702
Delta R.T. -0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	85.4	128.2
160	45.8	39.5	59.3





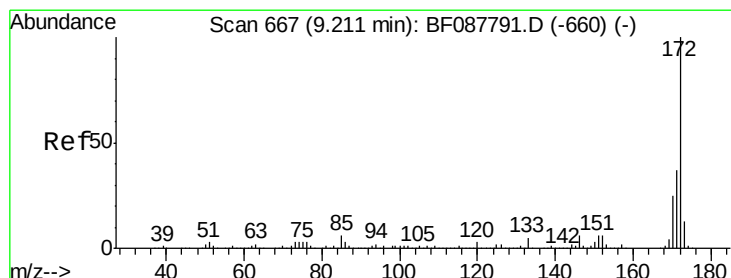
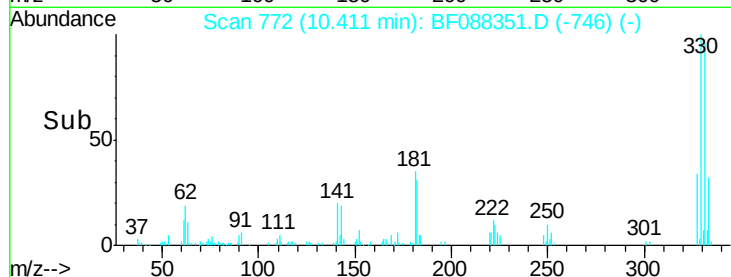
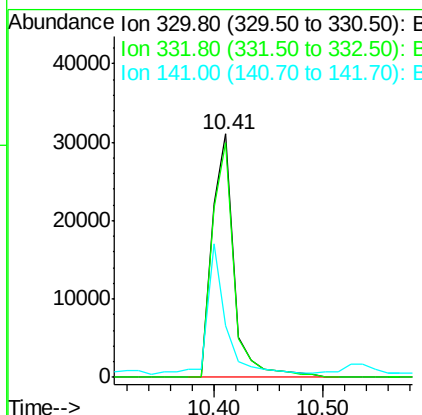
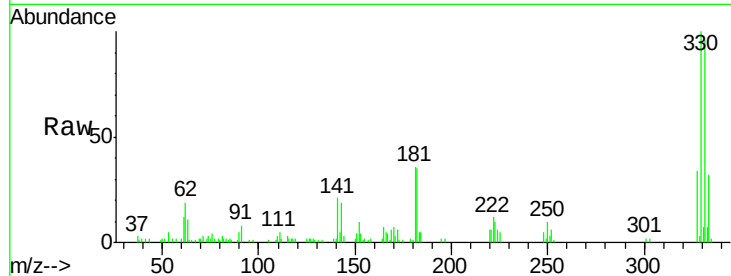
#41
 2,4,6-Tribromophenol
 Concen: 36.38 ng
 RT: 10.41 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	43734		
332	97.0	0.0	0.0	0.0
141	46.8	0.0	0.0	0.0

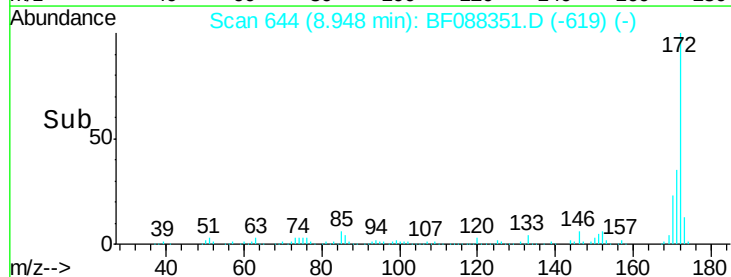
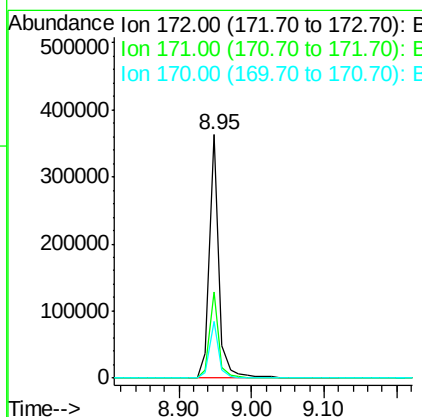
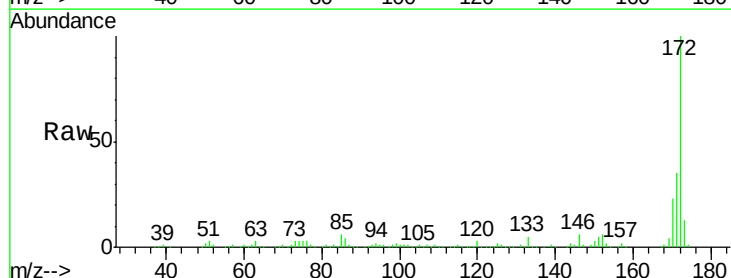
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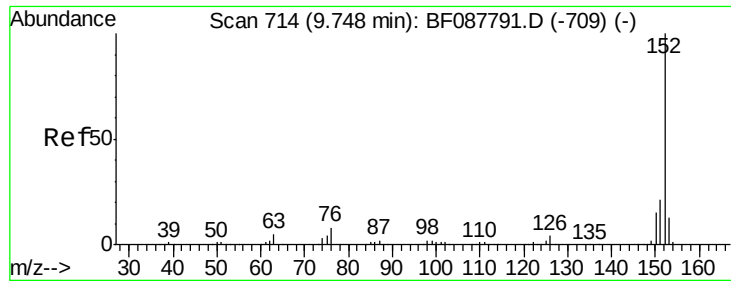
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#44
 2-Fluorobiphenyl
 Concen: 43.12 ng
 RT: 8.95 min Scan# 644
 Delta R.T. -0.01 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	332322		
171	35.2	28.6	43.0	
170	23.2	19.2	28.8	





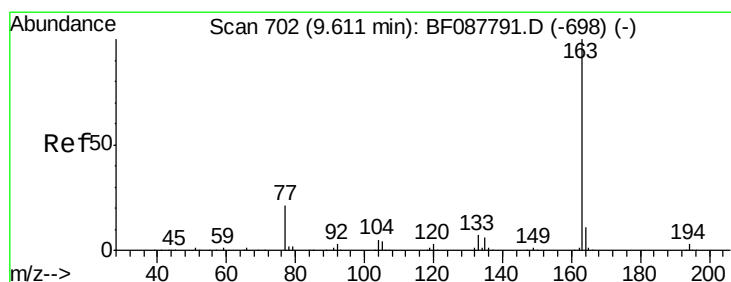
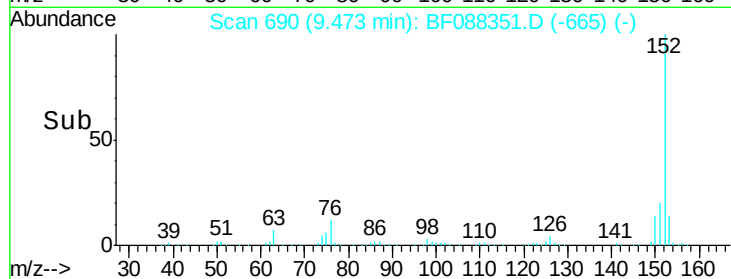
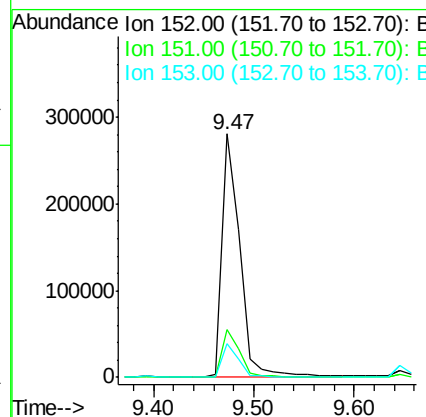
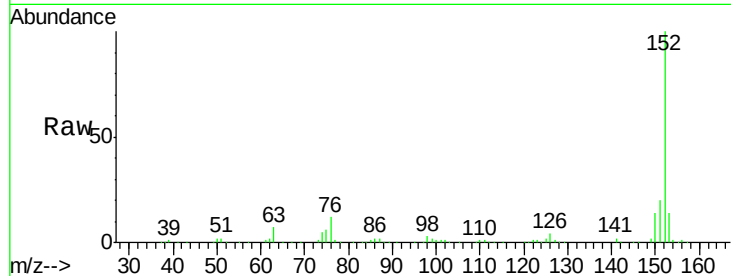
#48
Acenaphthylene
Concen: 29.31 ng
RT: 9.47 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	343520		
151	19.7	16.2	24.4	
153	13.9	11.0	16.6	

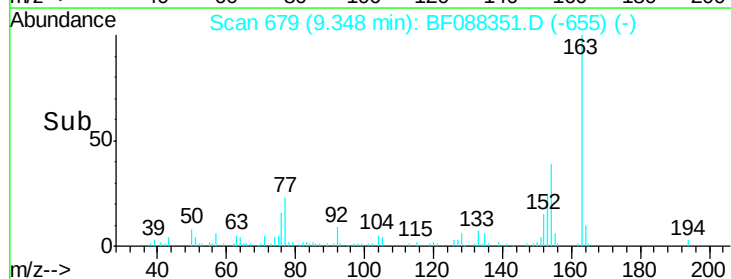
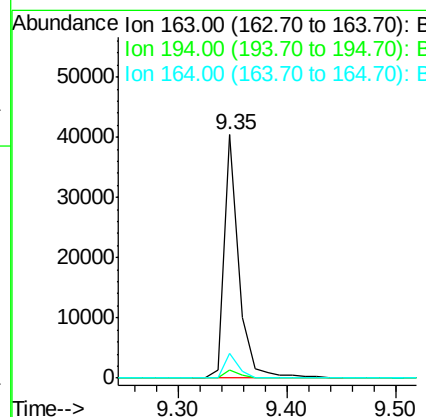
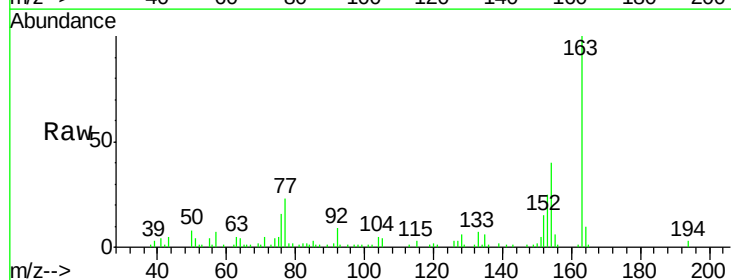
Manual Integrations
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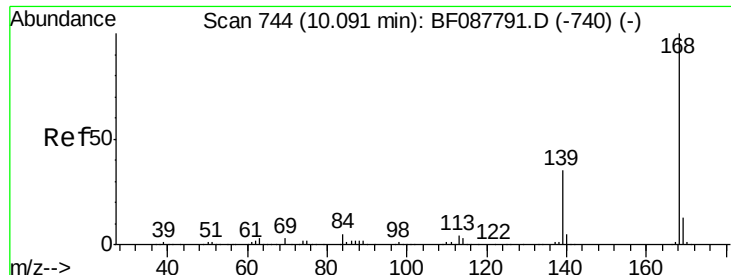
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#49
Dimethylphthalate
Concen: 4.65 ng
RT: 9.35 min Scan# 679
Delta R.T. -0.02 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

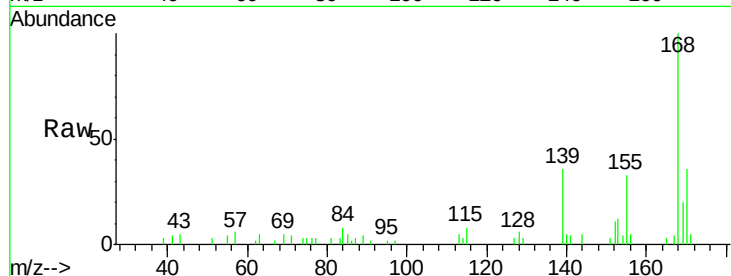
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	38371		
194	3.2	2.8	4.2	
164	10.4	8.3	12.5	





#54
Dibenzenofuran
Concen: 2.50 ng
RT: 9.83 min Scan# 721
Delta R.T. 0.00 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

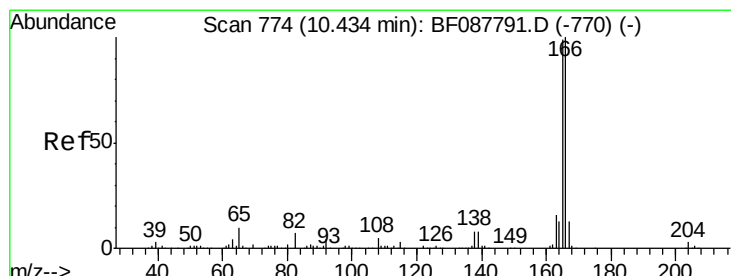
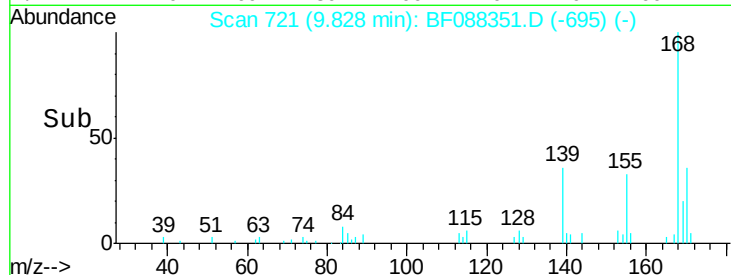
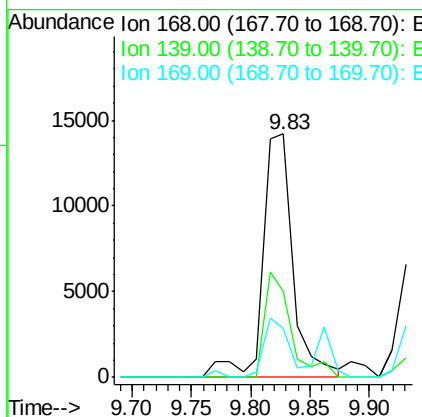
Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)



Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.5	26.4	39.6
169	20.0	10.4	15.6

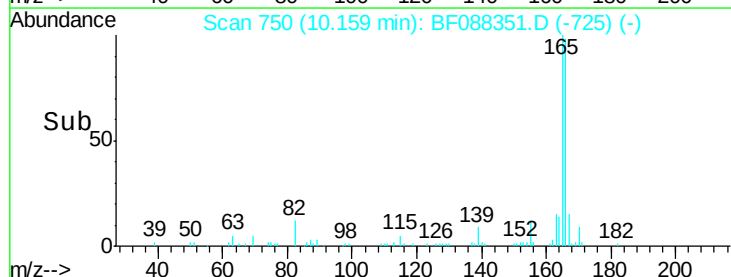
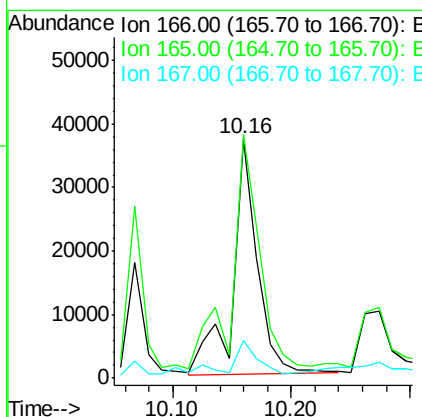
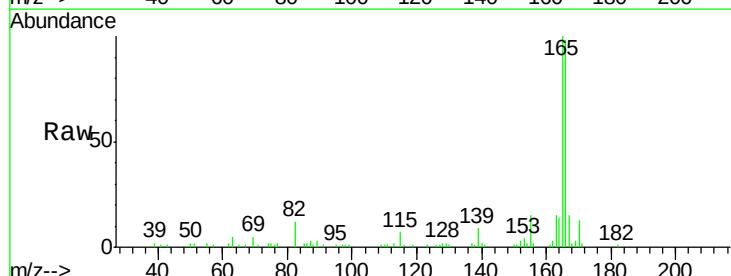
Manual Integrations
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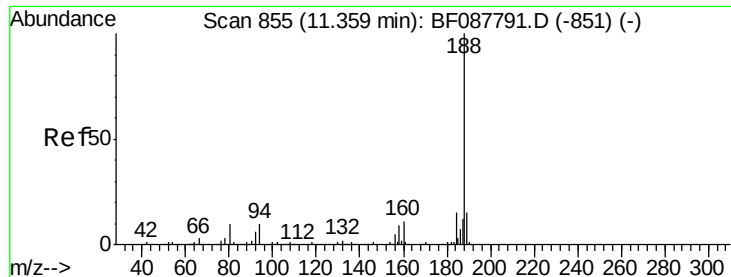
sohil
6/27/2016 8:12:28 PM



#57
Fluorene
Concen: 3.60 ng
RT: 10.16 min Scan# 750
Delta R.T. -0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.1	77.8	116.8
167	15.5	11.2	16.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Instrument :

BNA_F

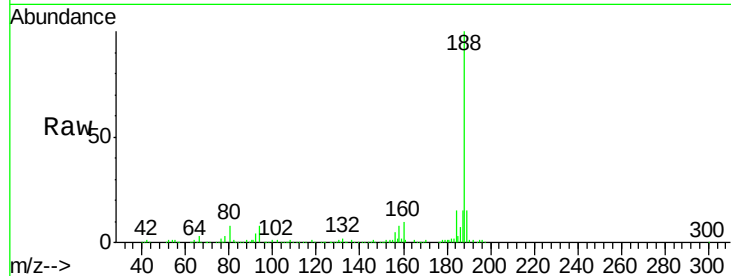
ClientSampleId :

PM-STA-1381(0-4)

Tgt Ion:	188	Resp:	169192
Ion Ratio	Lower	Upper	
188	100		
94	8.1	9.0	13.6#
80	7.9	10.0	15.0#

Manual Integrations
APPROVED

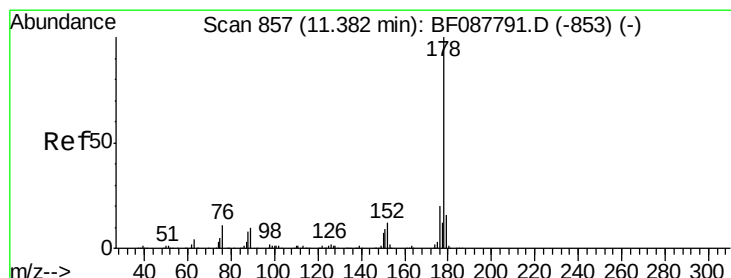
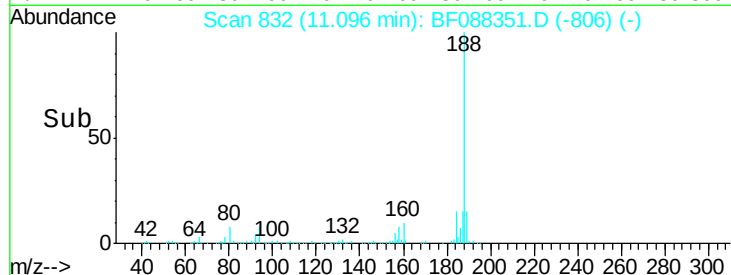
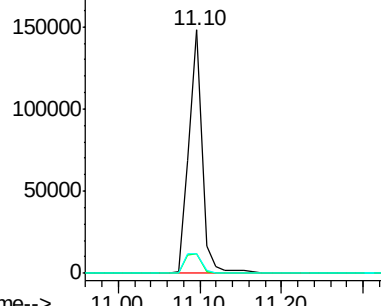
sohil
6/27/2016 8:12:28 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 48.15 ng

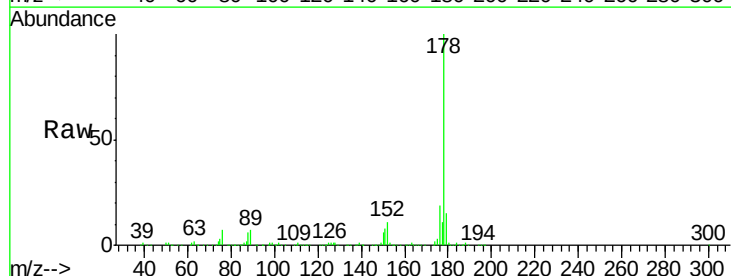
RT: 11.12 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

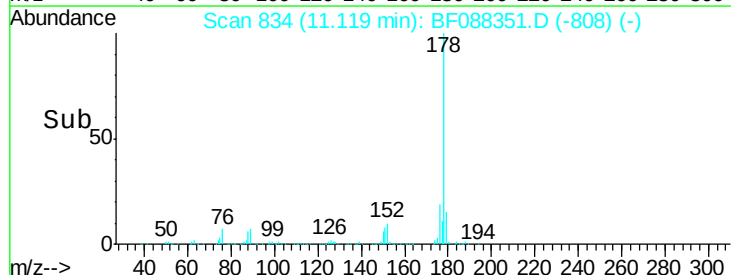
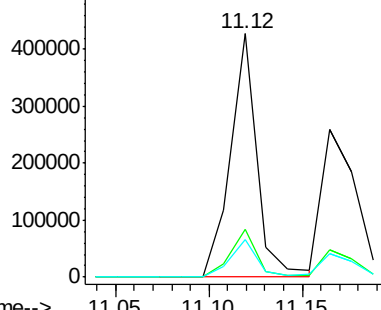
Tgt Ion:	178	Resp:	427485
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.8	23.6
179	15.2	13.0	19.4

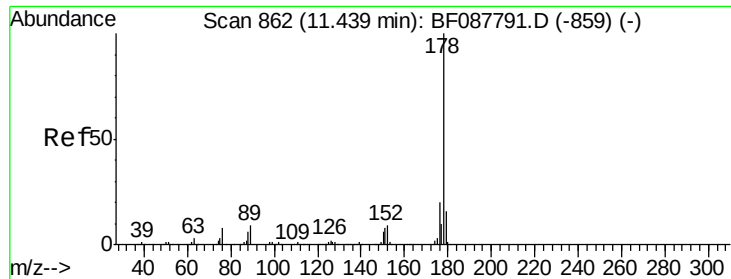


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





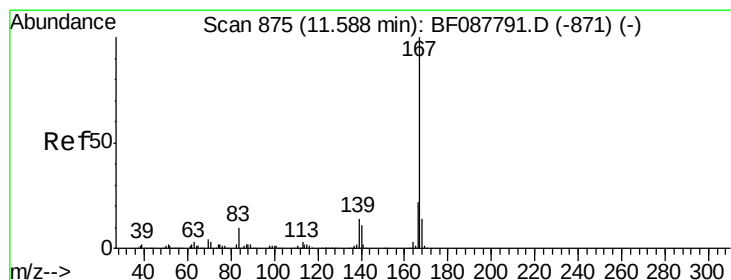
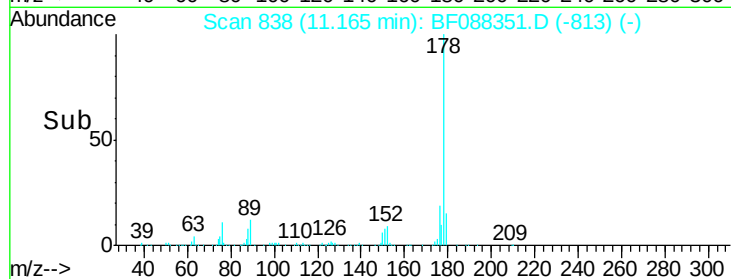
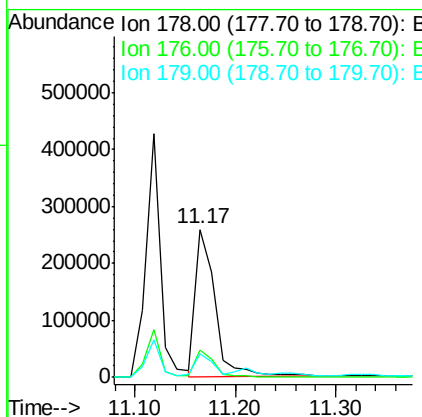
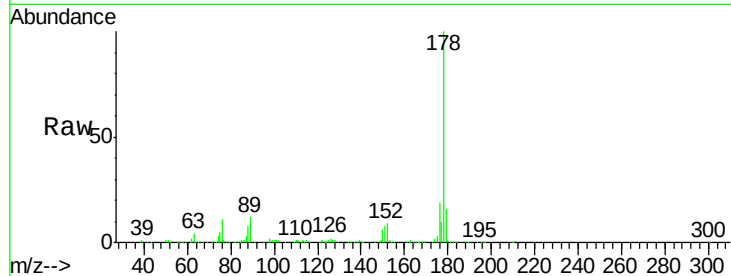
#71
 Anthracene
 Concen: 39.73 ng
 RT: 11.17 min Scan# 838
 Delta R.T. -0.01 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	15.9	12.8	19.2

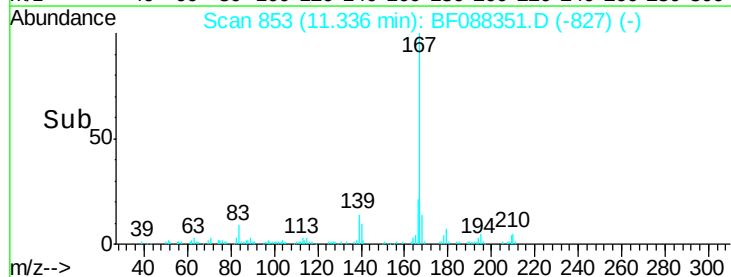
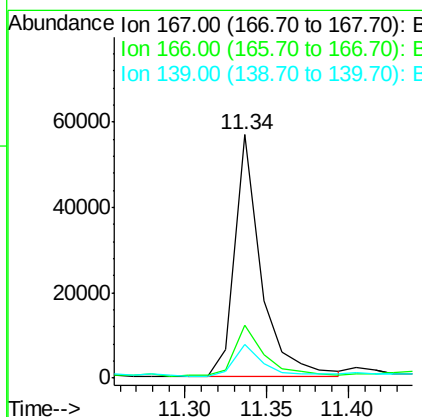
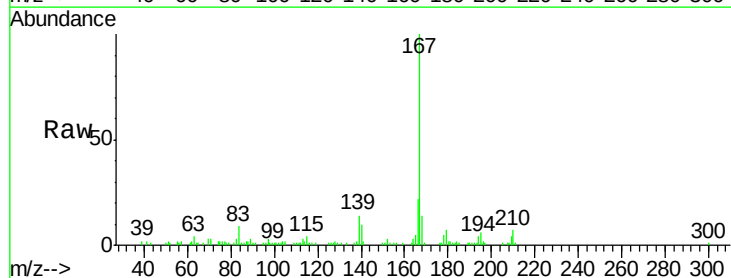
Manual Integrations
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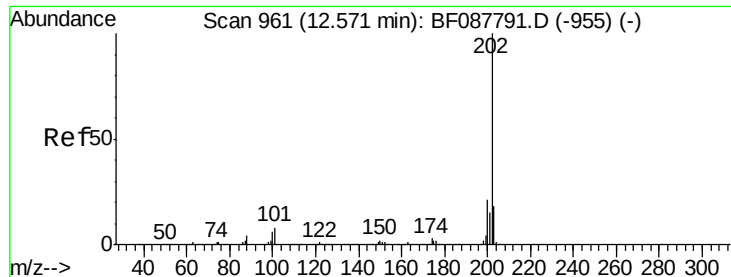
sohil
 6/27/2016 8:12:28 PM



#72
 Carbazole
 Concen: 7.57 ng
 RT: 11.34 min Scan# 853
 Delta R.T. 0.00 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.8	26.6
139	13.9	11.2	16.8





#74

Fluoranthene

Concen: 167.08 ng

RT: 12.31 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Instrument :

BNA_F

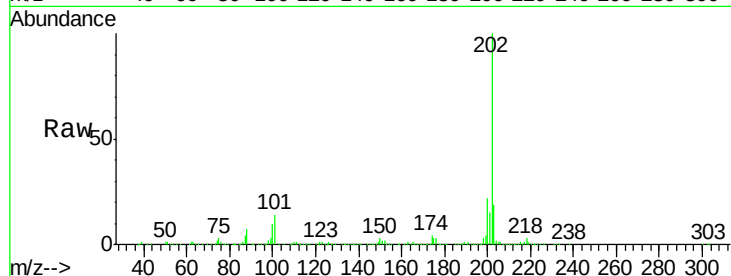
ClientSampleId :

PM-STA-1381(0-4)

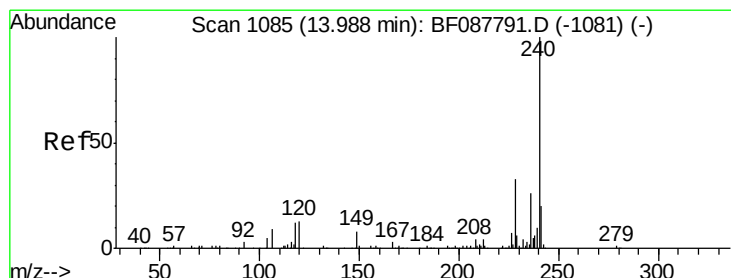
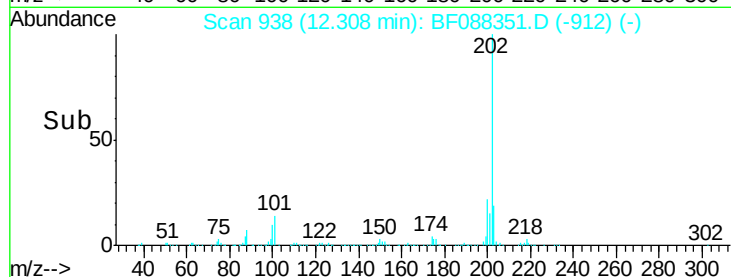
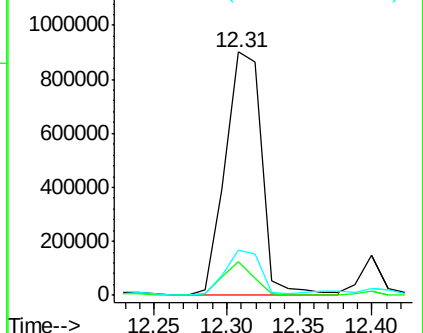
Tgt Ion:	202	Resp:	1565429
Ion	Ratio	Lower	Upper
202	100		
101	14.1	0.0	33.1
203	18.6	0.0	38.1

Manual Integrations
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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

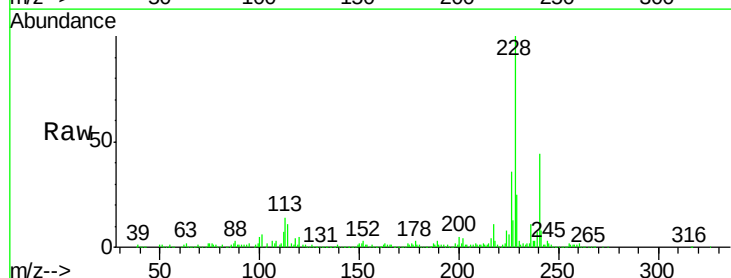
RT: 13.74 min Scan# 1063

Delta R.T. 0.01 min

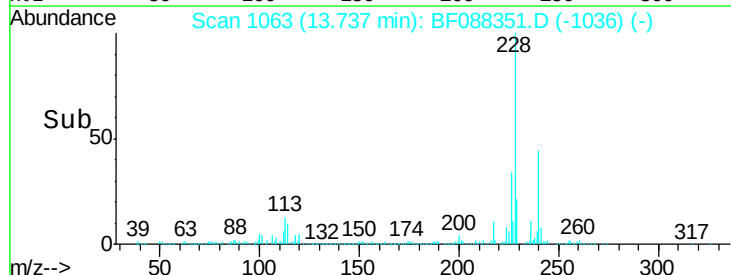
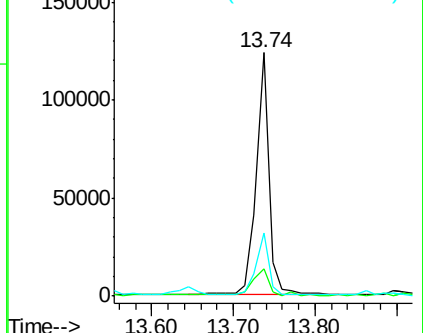
Lab File: BF088351.D

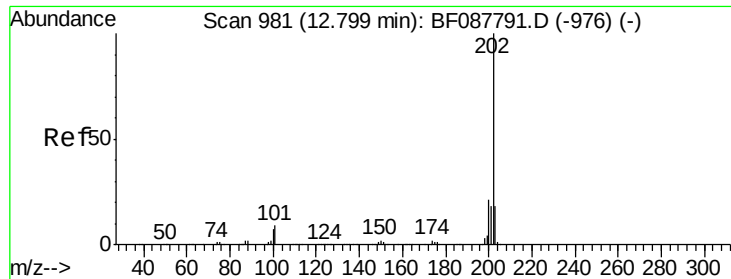
Acq: 25 Jun 2016 00:42

Tgt Ion:	240	Resp:	135713
Ion	Ratio	Lower	Upper
240	100		
120	11.0	6.8	10.2#
236	25.8	20.2	30.2



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





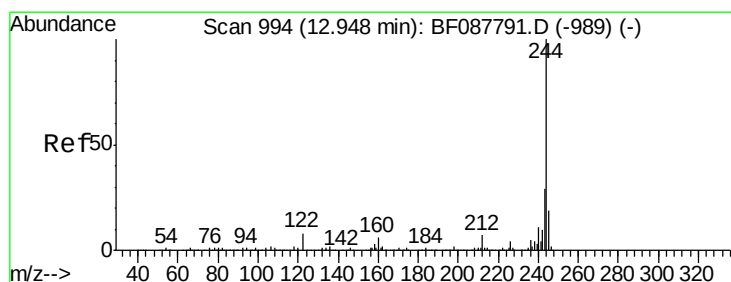
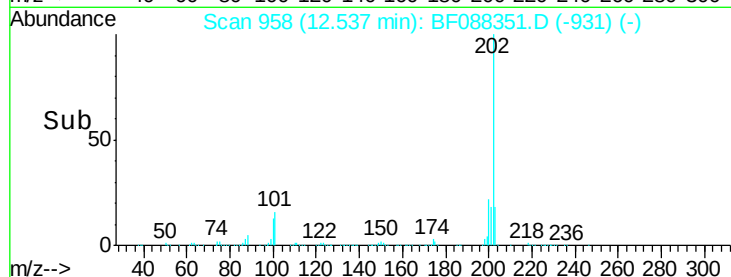
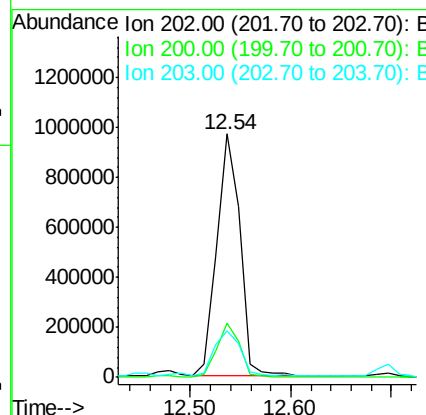
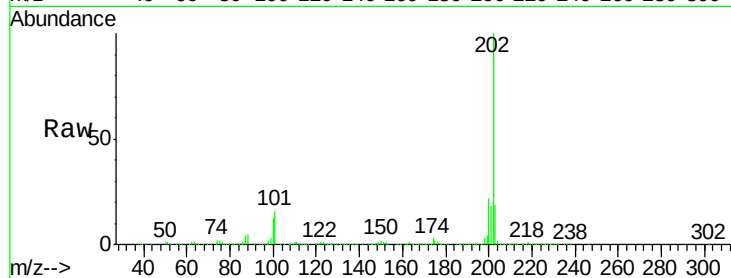
#77
 Pyrene
 Concen: 154.76 ng
 RT: 12.54 min Scan# 958
 Delta R.T. 0.01 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.4	26.2
203	18.8	14.5	21.7

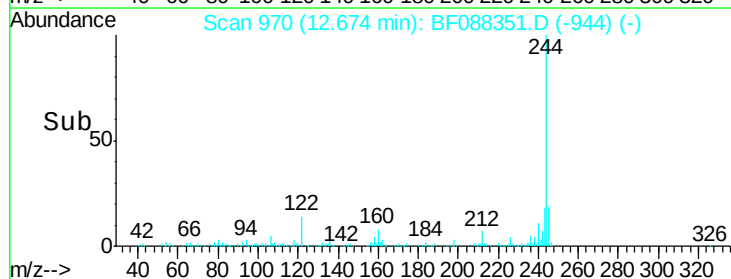
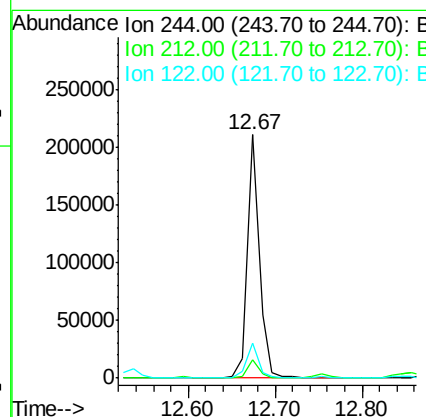
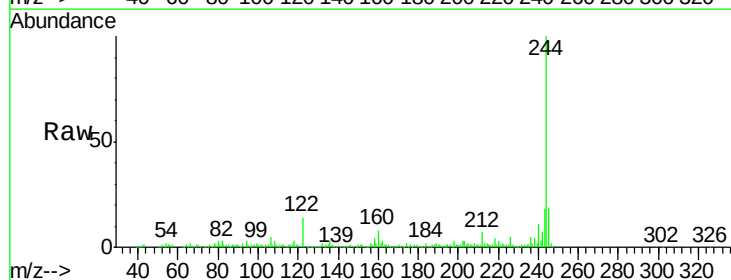
Manual Integrations
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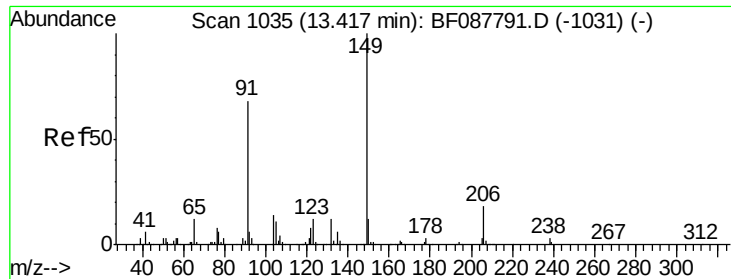
sohil
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#78
 Terphenyl-d14
 Concen: 33.79 ng
 RT: 12.67 min Scan# 970
 Delta R.T. 0.00 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	14.3	11.2	16.8





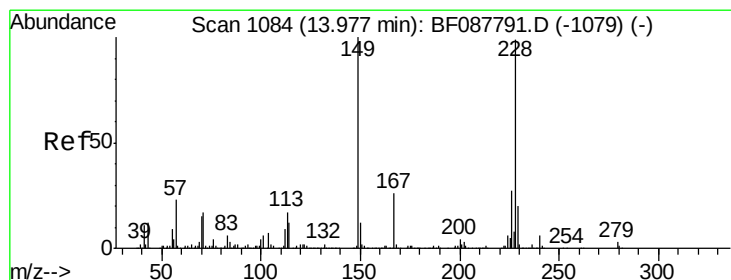
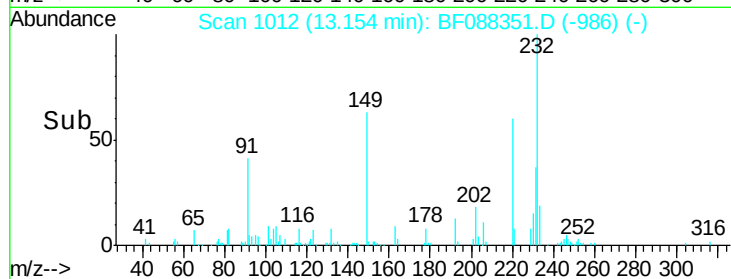
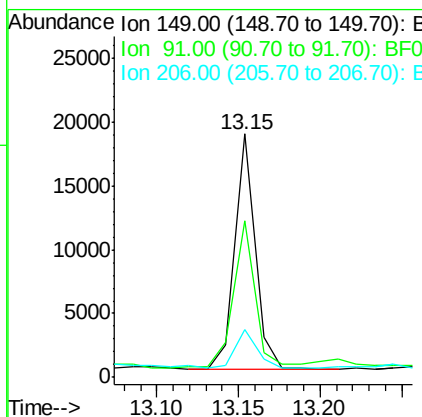
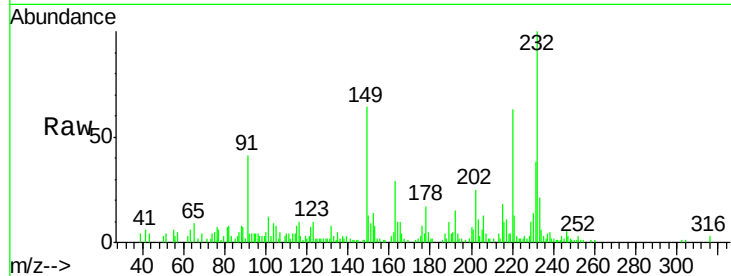
#79
 Butylbenzylphthalate
 Concen: 3.59 ng
 RT: 13.15 min Scan# 1012
 Delta R.T. 0.00 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
149	100		
91	64.5	48.0	72.0
206	19.8	16.0	24.0

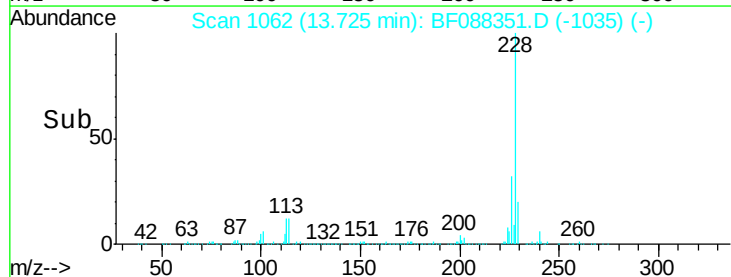
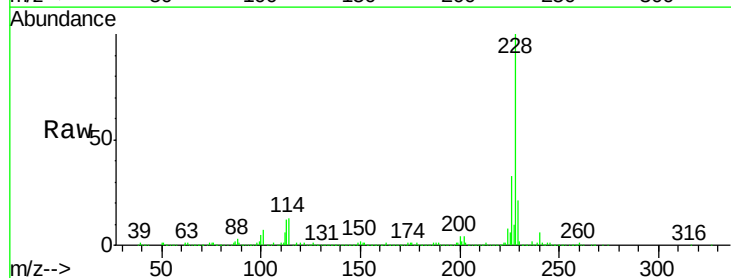
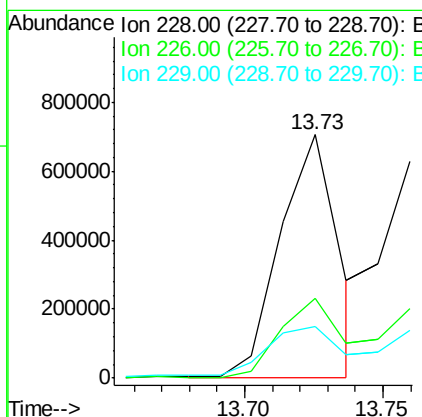
Manual Integrations
 APPROVED

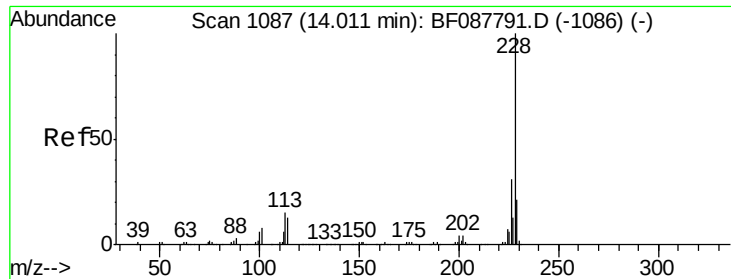
sohil
 6/27/2016 8:12:28 PM



#80
 Benzo(a)anthracene
 Concen: 133.98 ng m
 RT: 13.73 min Scan# 1062
 Delta R.T. 0.01 min
 Lab File: BF088351.D
 Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.5	22.3	33.5
229	21.3	16.0	24.0





#82

Chrysene

Concen: 127.70 ng m

RT: 13.76 min Scan# 1065

Delta R.T. 0.01 min

Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

Instrument :

BNA_F

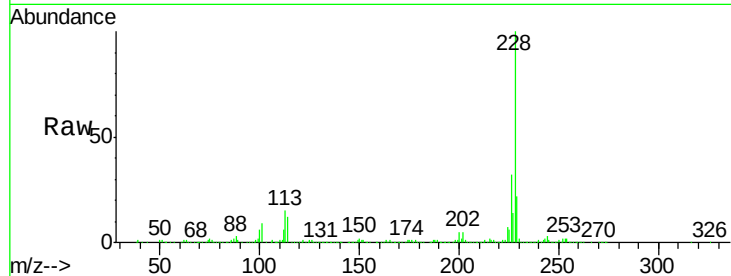
ClientSampleId :

PM-STA-1381(0-4)

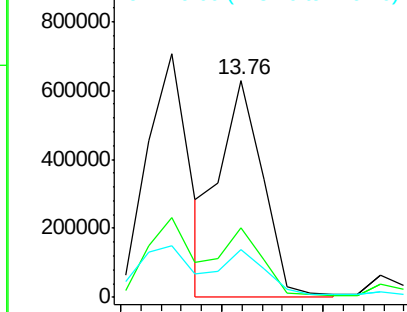
Tgt Ion:	228	Resp:	929154
Ion Ratio	Lower	Upper	
228	100		
226	31.8	25.4	38.2
229	21.7	16.3	24.5

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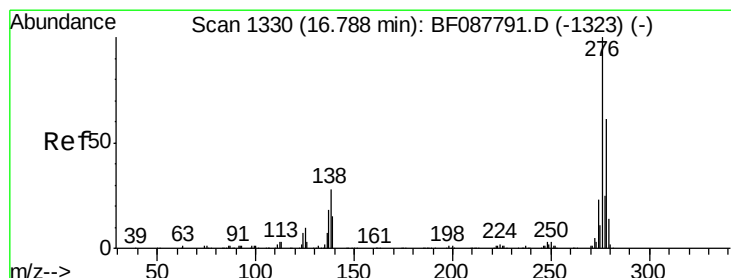
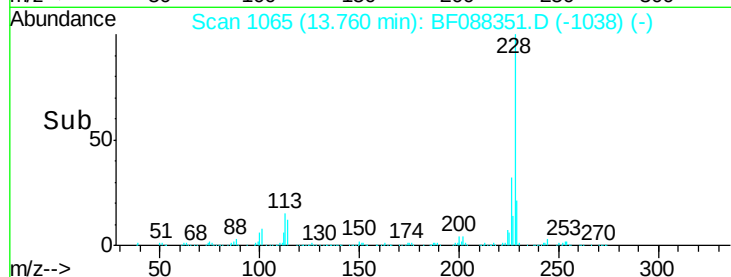
sohil
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time--> 13.70 13.75 13.80



#85

Indeno(1,2,3-cd)pyrene

Concen: 55.12 ng

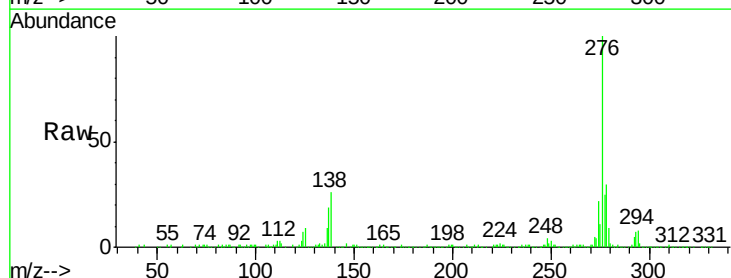
RT: 16.34 min Scan# 1291

Delta R.T. 0.01 min

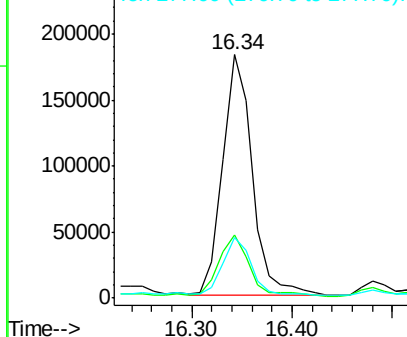
Lab File: BF088351.D

Acq: 25 Jun 2016 00:42

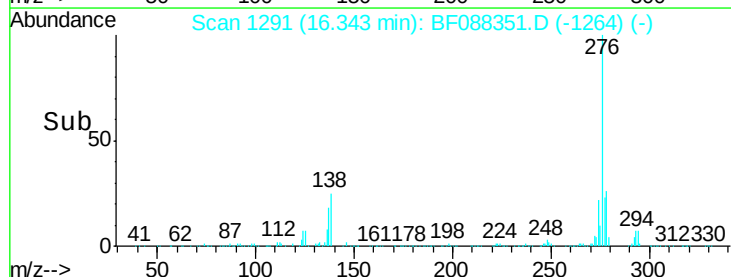
Tgt Ion:	276	Resp:	372609
Ion Ratio	Lower	Upper	
276	100		
138	27.4	0.0	0.0#
277	24.4	0.0	0.0#

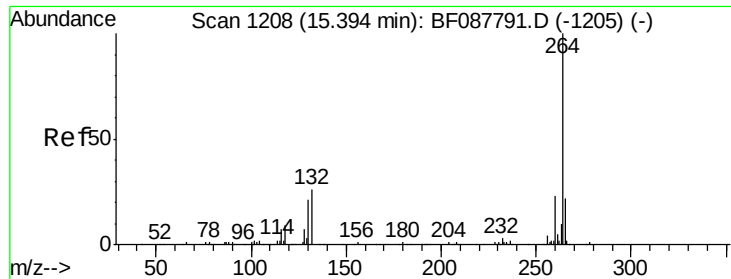


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time--> 16.30 16.40





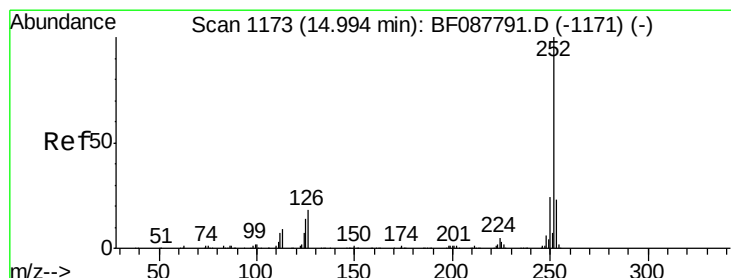
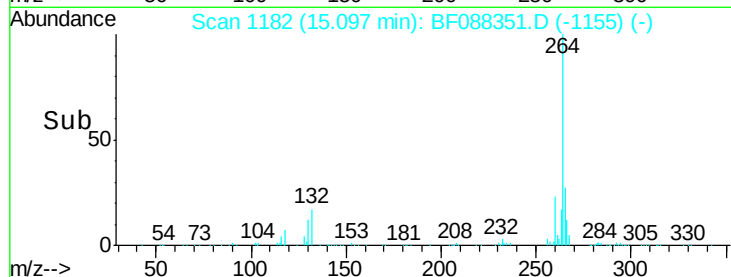
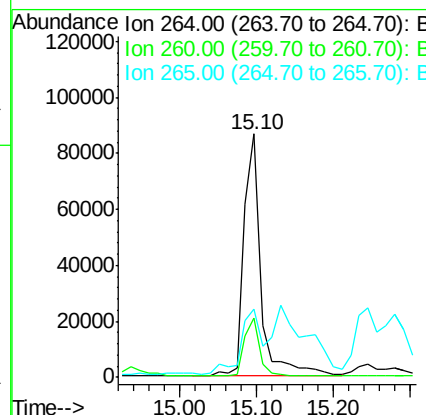
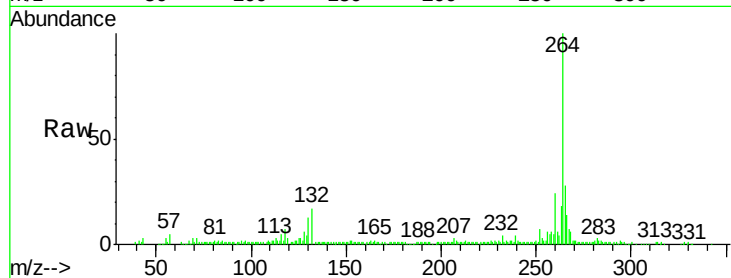
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.10 min Scan# 1182
Delta R.T. 0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	133337		
260	24.1	19.2	28.8	
265	28.0	16.9	25.3#	

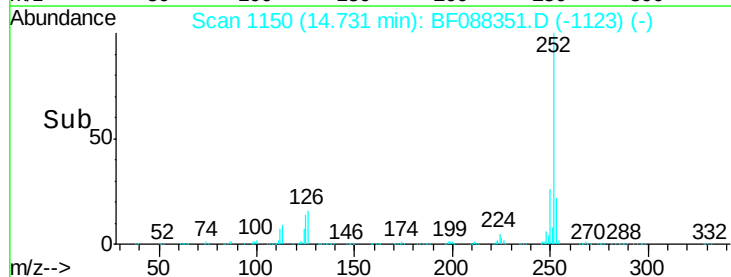
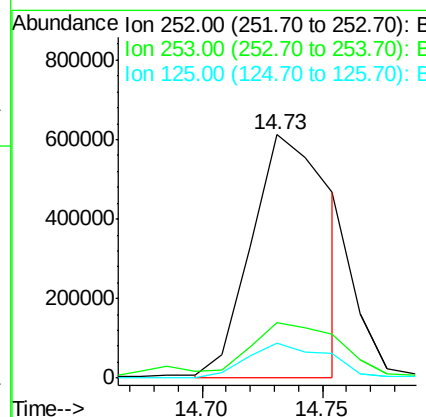
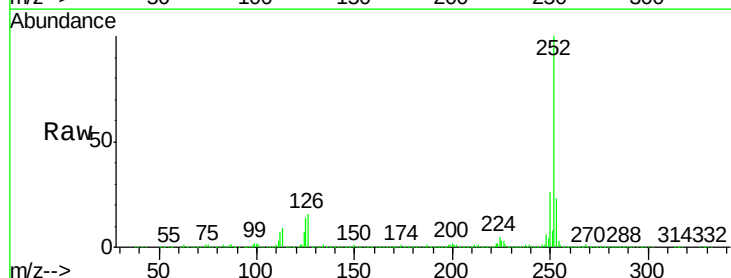
Manual Integrations
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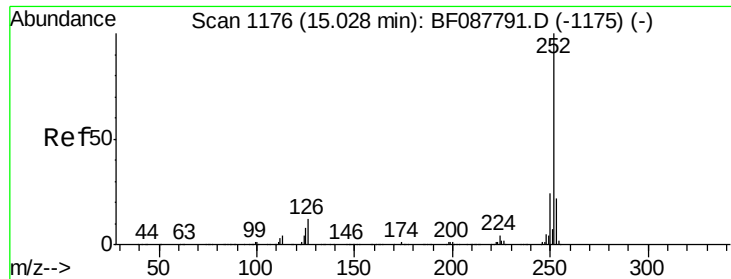
sohil
6/27/2016 8:12:28 PM



#87
Benzo(b)fluoranthene
Concen: 149.35 ng m
RT: 14.73 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1388010		
253	22.9	17.4	26.2	
125	14.2	7.1	10.7#	





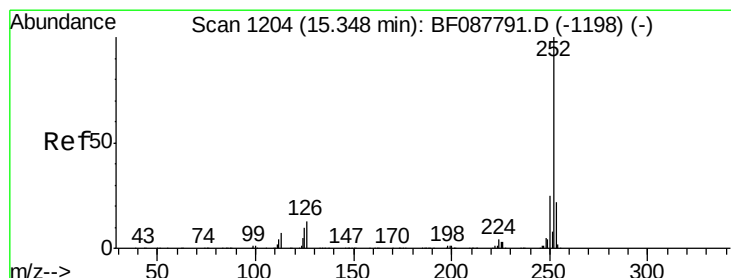
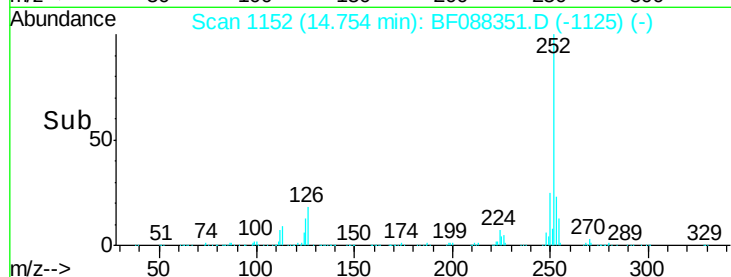
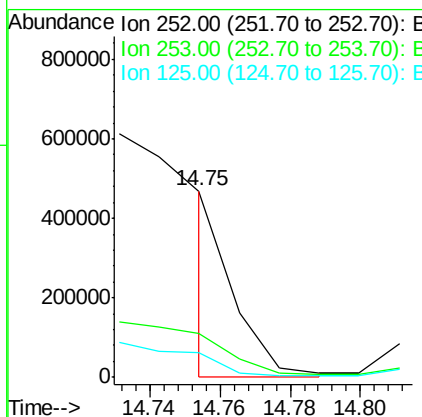
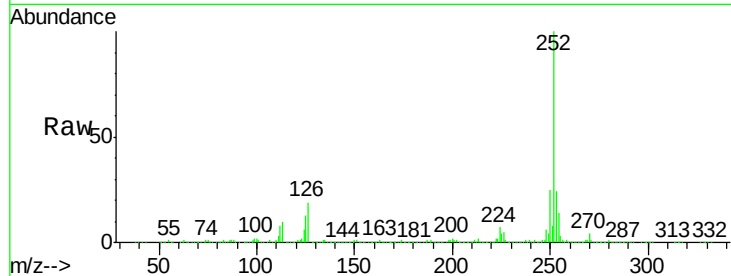
#88
Benzo(k)fluoranthene
Concen: 19.26 ng m
RT: 14.75 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	13.4	11.2	16.8

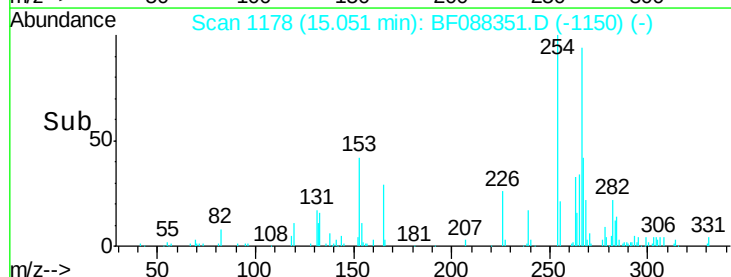
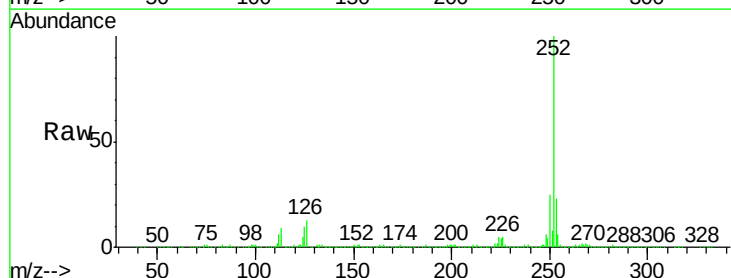
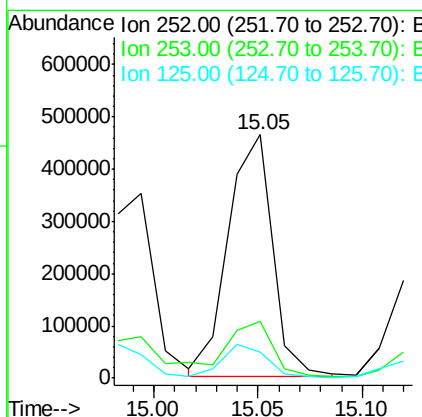
Manual Integrations
APPROVED

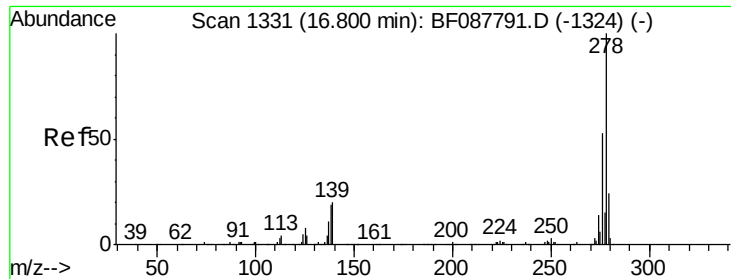
sohil
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#89
Benzo(a)pyrene
Concen: 91.82 ng m
RT: 15.05 min Scan# 1178
Delta R.T. 0.02 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	10.4	12.5	18.7#





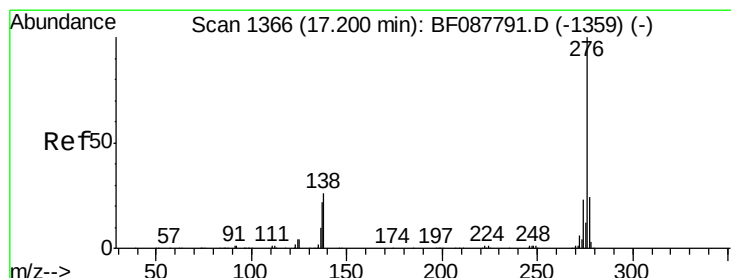
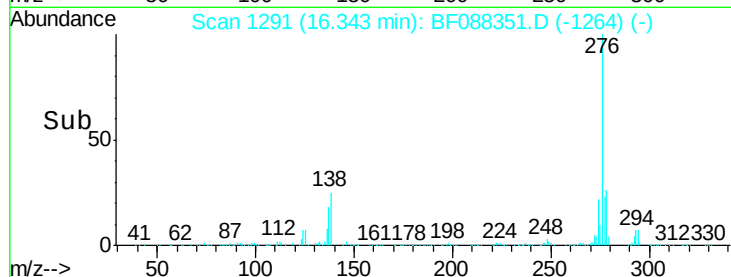
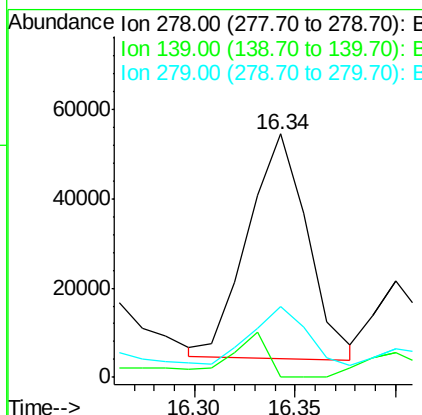
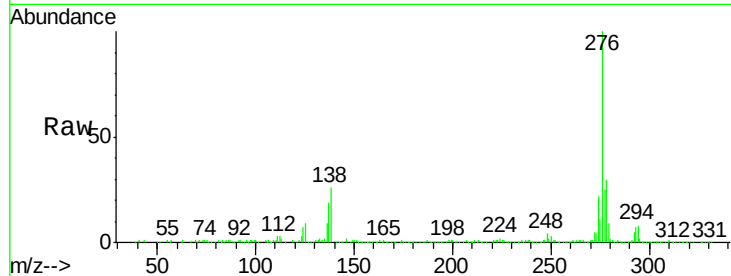
#90
Dibenzo(a,h)anthracene
Concen: 14.81 ng m
RT: 16.34 min Scan# 1291
Delta R.T. 0.01 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Instrument :
BNA_F
ClientSampleId :
PM-STA-1381(0-4)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.7	23.5#
279	29.1	19.4	29.2

Manual Integrations
APPROVED

sohil
6/27/2016 8:12:28 PM



#91
Benzo(g,h,i)perylene
Concen: 43.94 ng
RT: 16.72 min Scan# 1324
Delta R.T. 0.02 min
Lab File: BF088351.D
Acq: 25 Jun 2016 00:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	25.5	21.4	32.2

