

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\
 Data File : BF083298.D
 Acq On : 26 Nov 2015 3:12
 Operator : UM/IZ
 Sample : G4436-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Manual Integrations
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mmdadoda
 11/26/2015 6:43:50 PM

Quant Time: Nov 26 04:43:38 2015
 Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Nov 22 09:22:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	168030	20.00	ng	-0.07
21) Naphthalene-d8	7.88	136	572208	20.00	ng	-0.07
38) Acenaphthene-d10	9.63	164	253559	20.00	ng	-0.07
63) Phenanthrene-d10	11.11	188	438837	20.00	ng	-0.07
75) Chrysene-d12	13.76	240	337790	20.00	ng	-0.05
86) Perylene-d12	15.11	264	339585	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	1253032	112.74	ng	-0.08
7) Phenol-d6	6.27	99	1663942	115.71	ng	-0.07
23) Nitrobenzene-d5	7.16	82	1069836	85.43	ng	-0.07
41) 2,4,6-Tribromophenol	10.42	330	271335	104.60	ng	-0.07
44) 2-Fluorobiphenyl	8.96	172	1313935	72.26	ng	-0.07
78) Terphenyl-d14	12.70	244	1071983	74.73	ng	-0.07
Target Compounds						Qvalue
31) Naphthalene	7.90	128	160762	5.21	ng	98
37) 2-Methylnaphthalene	8.59	142	72218	3.60	ng	96
48) Acenaphthylene	9.50	152	677961	25.81	ng	99
49) Dimethylphthalate	9.36	163	379244	19.43	ng	99
51) Acenaphthene	9.66	154	196400	12.28	ng	98
54) Dibenzofuran	9.84	168	172201	7.62	ng	# 89
57) Fluorene	10.17	166	296509	15.87	ng	98
70) Phenanthrene	11.14	178	3539865	140.01	ng	95
71) Anthracene	11.19	178	1219903	47.29	ng	100
72) Carbazole	11.35	167	484873	21.15	ng	98
74) Fluoranthene	12.34	202	6109853	236.12	ng	94
77) Pyrene	12.57	202	5827184	252.51	ng	93
80) Benzo(a)anthracene	13.75	228	3586180	171.66	ng	93
82) Chrysene	13.78	228	2737271m	141.29	ng	
85) Indeno(1,2,3-cd)pyrene	16.35	276	1218359	69.14	ng	97
87) Benzo(b)fluoranthene	14.75	252	3302906m	142.35	ng	
88) Benzo(k)fluoranthene	14.77	252	787762m	45.57	ng	
89) Benzo(a)pyrene	15.06	252	1943838	101.47	ng	# 92
90) Dibenzo(a,h)anthracene	16.35	278	349364m	20.08	ng	
91) Benzo(a,h,i)perylene	16.72	276	1035509	60.96	ng	# 92

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

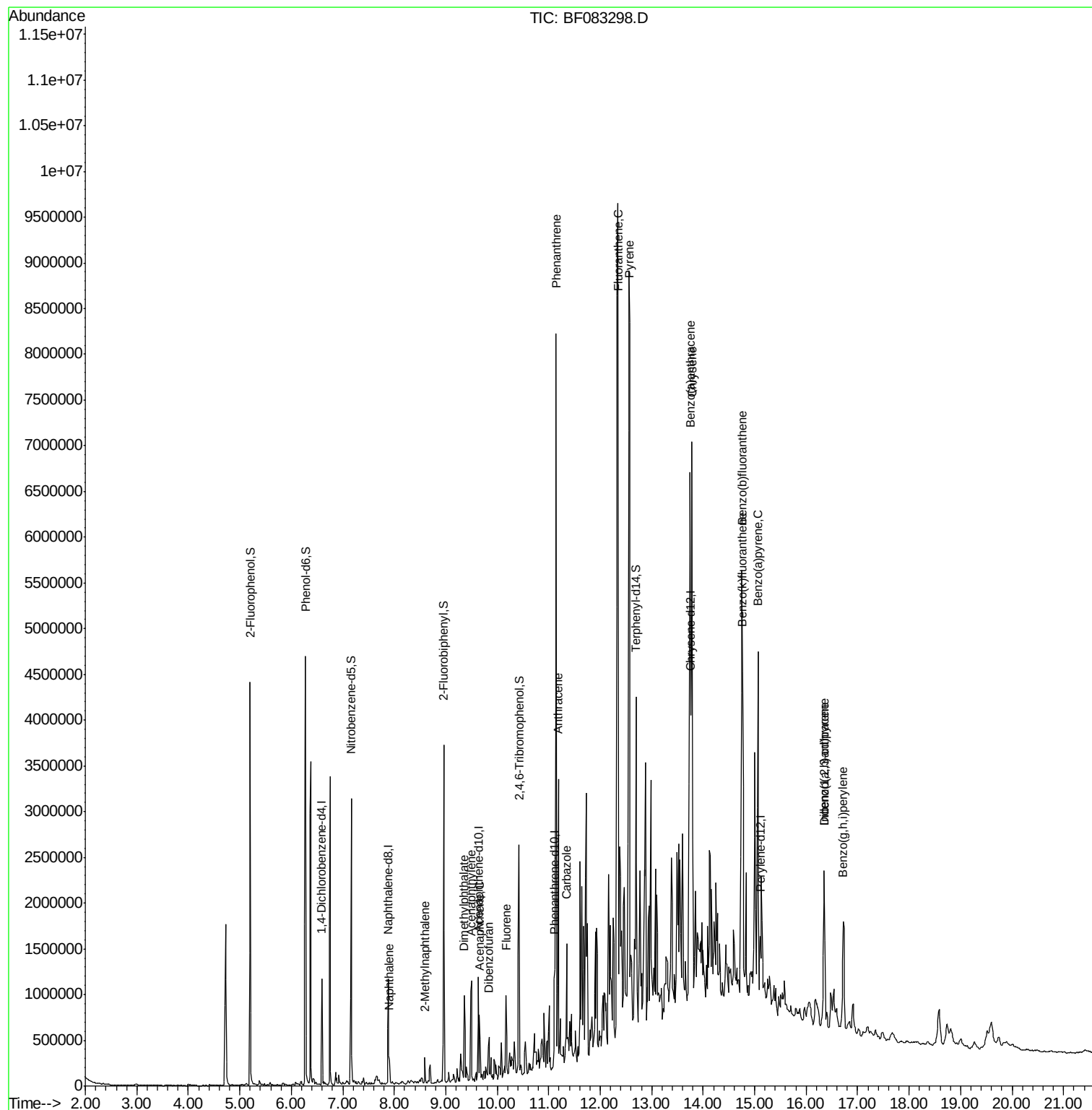
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112515\
Data File : BF083298.D
Acq On : 26 Nov 2015 3:12
Operator : UM/IZ
Sample : G4436-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

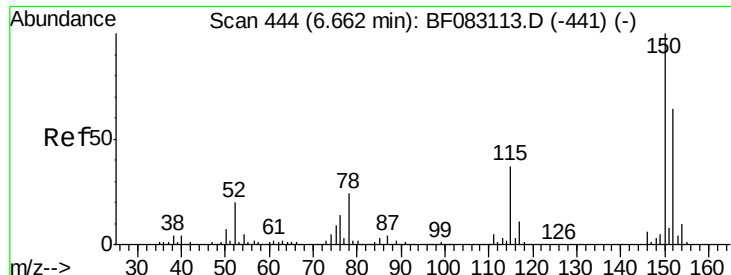
Instrument :
BNA_F
ClientSampleId :
PM-1350

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Quant Time: Nov 26 04:43:38 2015
Quant Method : Z:\HPCHEM1\BNA F\Methods\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Nov 22 09:22:46 2015
Response via : Initial Calibration





#1

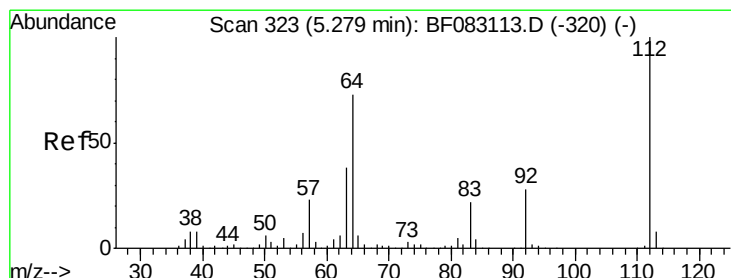
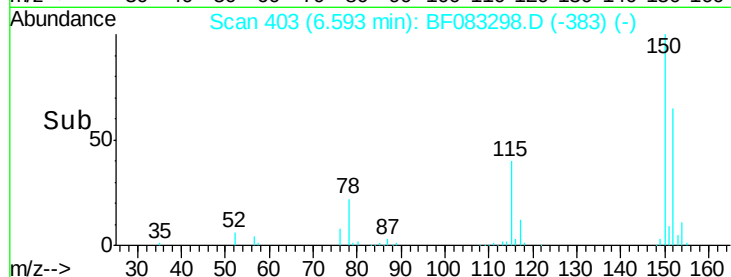
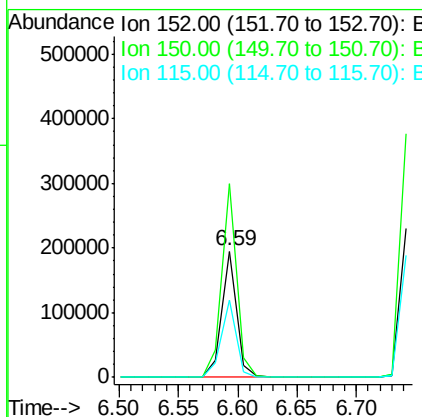
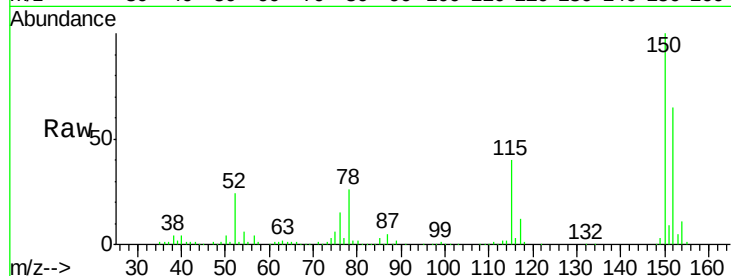
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 403
Delta R.T. -0.07 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampled :
PM-1350

Tot Ion	Ratio	Resp	Lower	Upper
152	100	168030		
150	153.5	125.8	188.8	
115	61.5	46.9	70.3	

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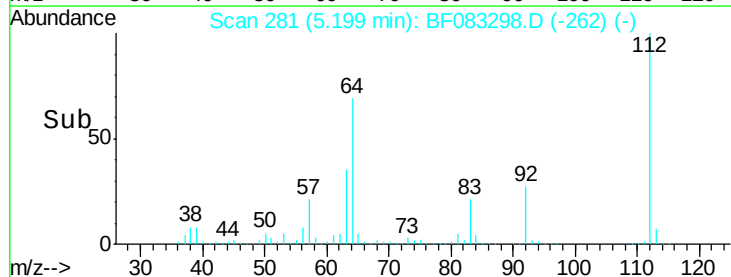
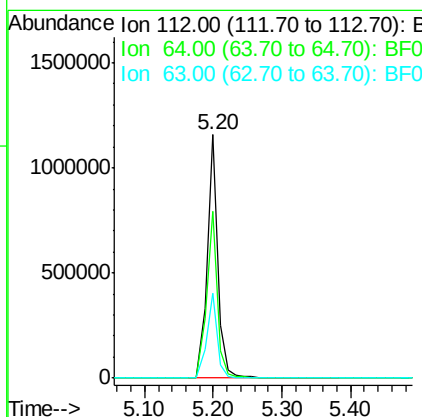
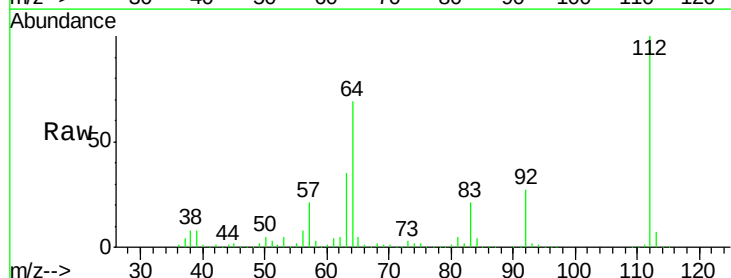
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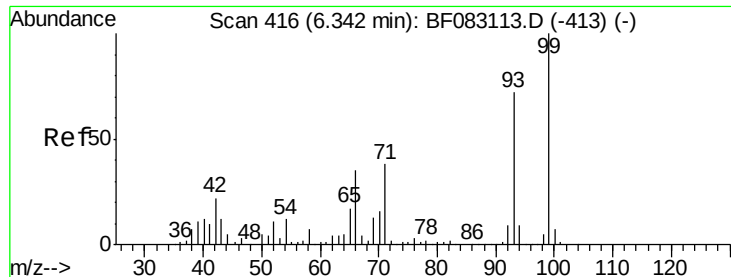


#5

2-Fluorophenol
Concen: 112.74 ng
RT: 5.20 min Scan# 281
Delta R.T. -0.08 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1253032		
64	68.6	58.4	87.6	
63	34.8	30.0	45.0	





#7

Phenol-d6

Concen: 115.71 ng

RT: 6.27 min Scan# 375

Delta R.T. -0.07 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Instrument :

BNA_F

ClientSampleId :

PM-1350

Tot Ion: 99 Resp: 1663942

Ion Ratio Lower Upper

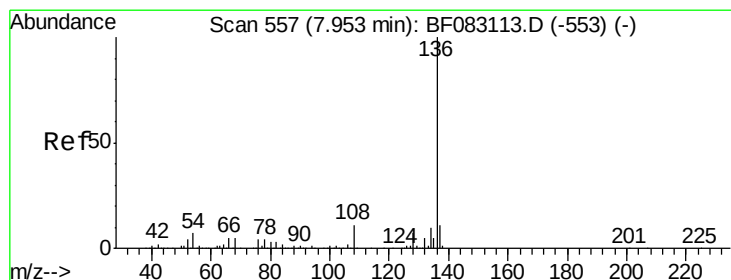
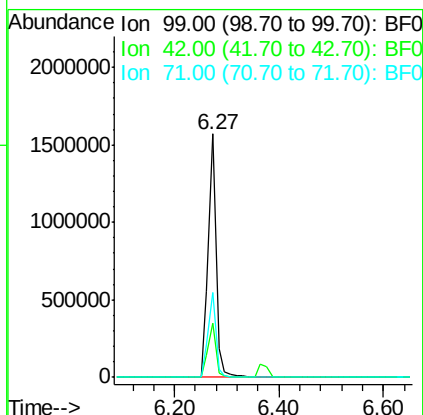
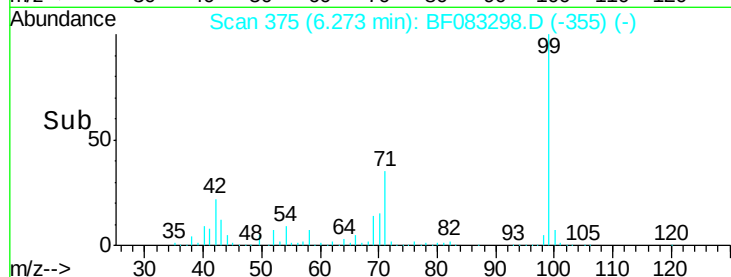
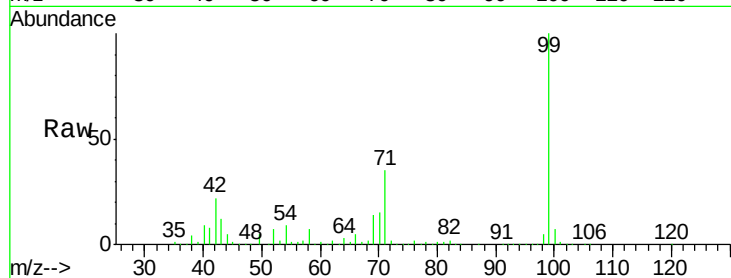
99 100

42 22.2 17.7 26.5

71 35.1 30.2 45.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 516

Delta R.T. -0.07 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Tgt Ion: 136 Resp: 572208

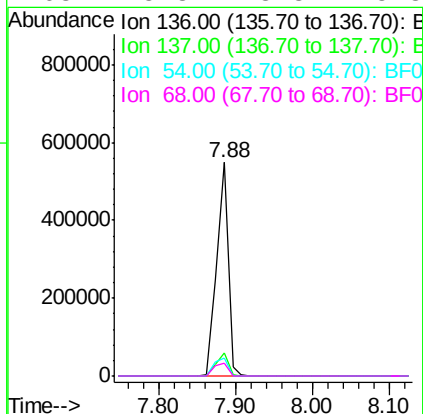
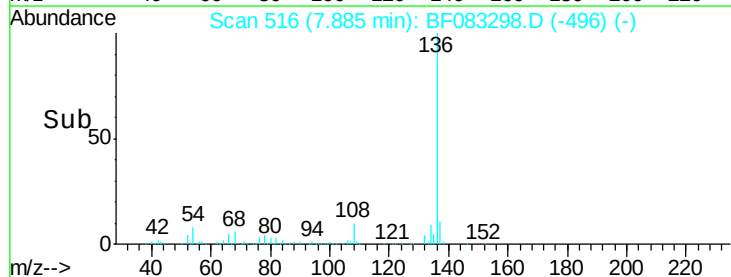
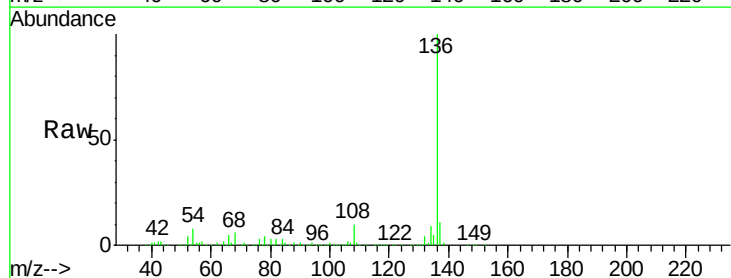
Ion Ratio Lower Upper

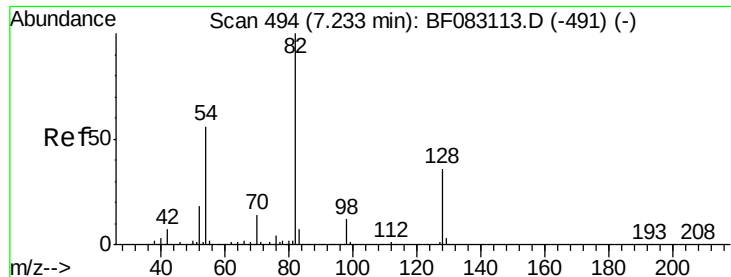
136 100

137 10.8 8.7 13.1

54 8.2 5.8 8.6

68 5.8 3.8 5.8#





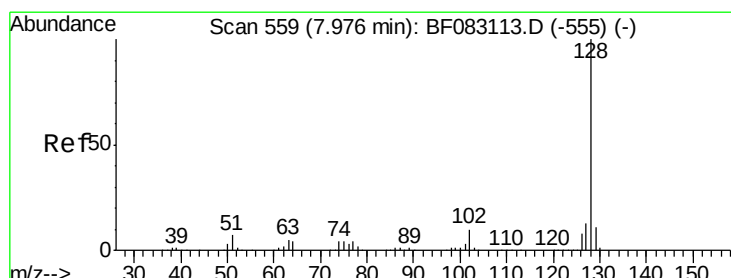
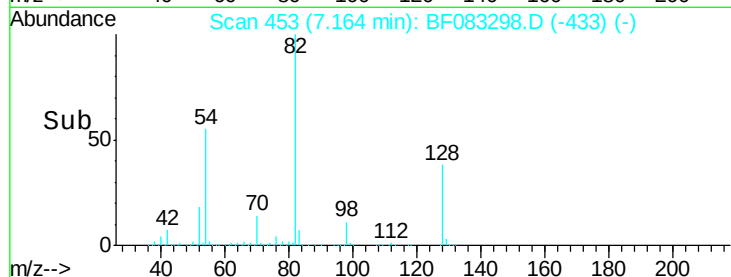
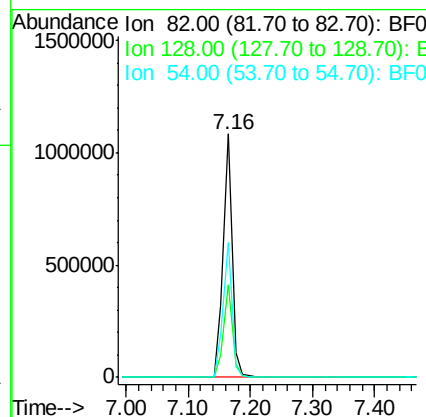
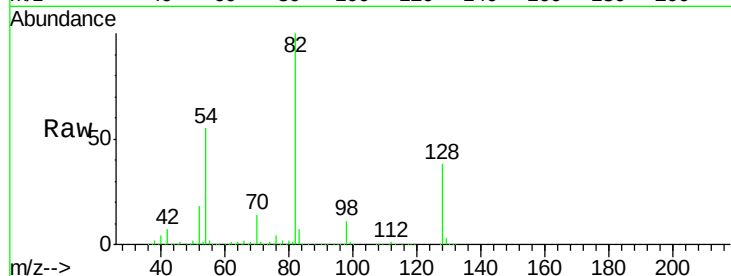
#23
Nitrobenzene-d5
Concen: 85.43 ng
RT: 7.16 min Scan# 453
Delta R.T. -0.07 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.2	28.5	42.7
54	55.1	44.6	67.0

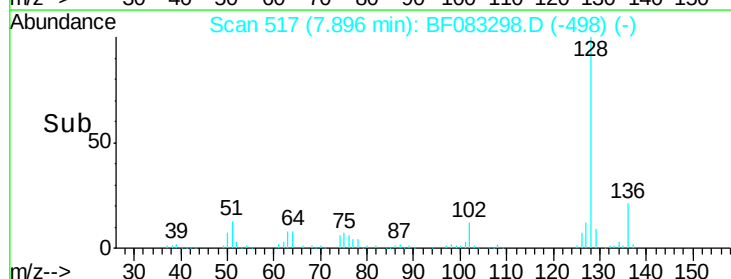
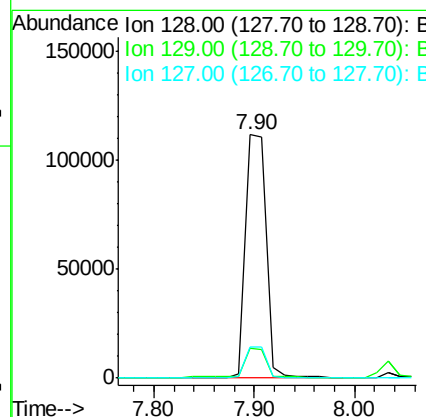
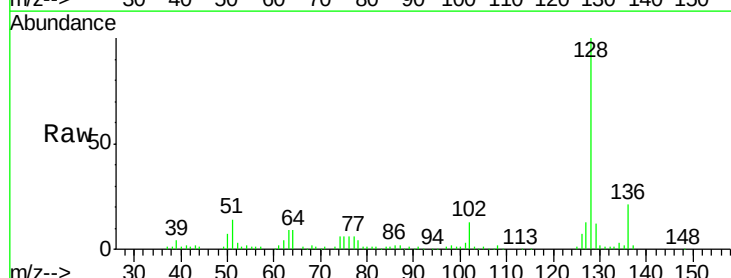
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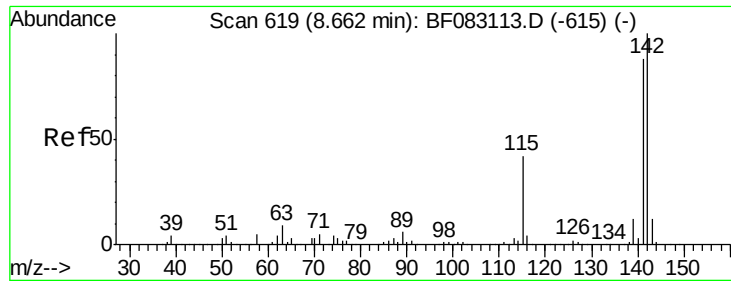
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#31
Naphthalene
Concen: 5.21 ng
RT: 7.90 min Scan# 517
Delta R.T. -0.08 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.0	13.4
127	12.7	10.6	15.8





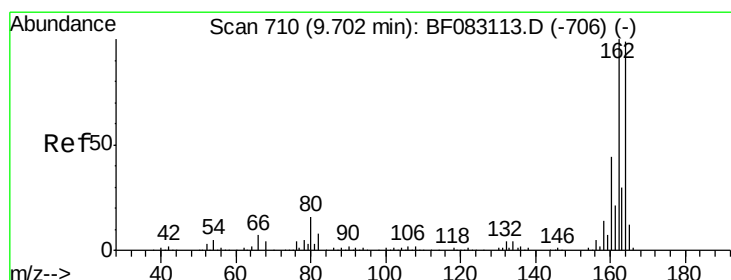
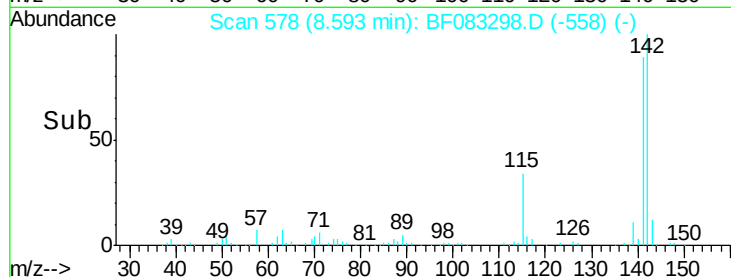
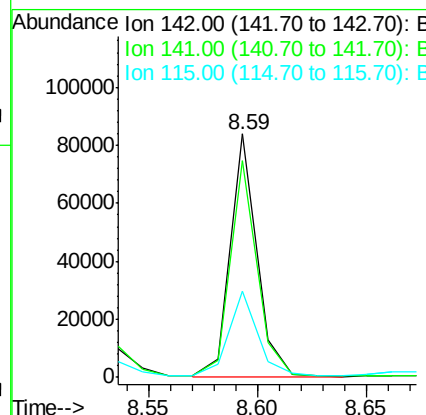
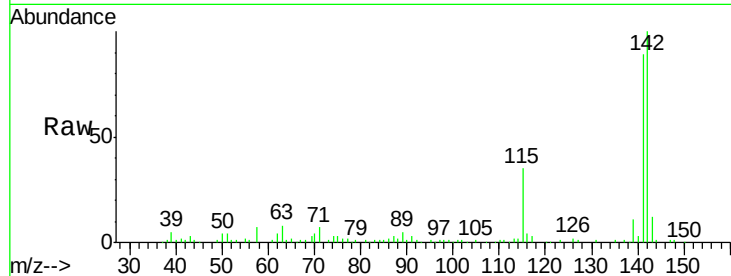
#37
2-Methylnaphthalene
Concen: 3.60 ng
RT: 8.59 min Scan# 578
Delta R.T. -0.07 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.3	105.5
115	35.3	33.4	50.2

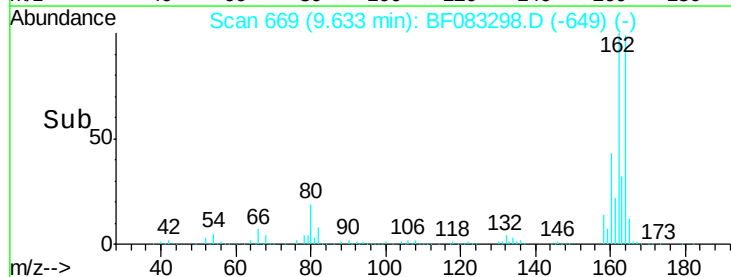
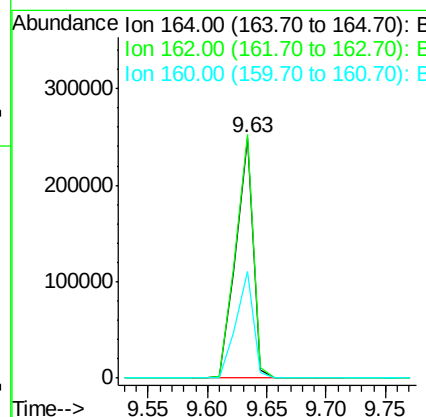
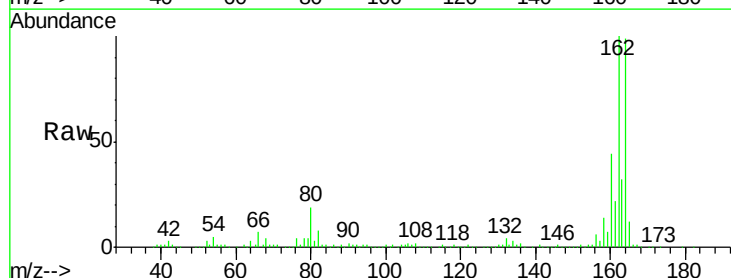
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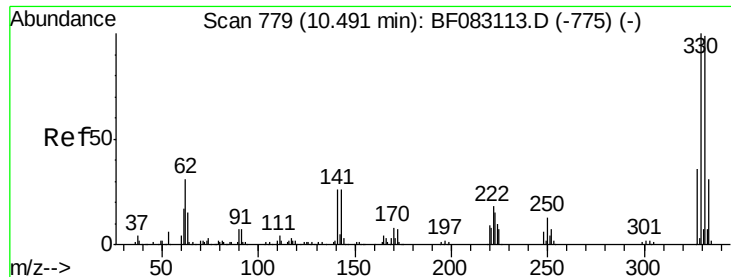
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.63 min Scan# 669
Delta R.T. -0.07 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.2	121.8
160	44.2	35.6	53.4





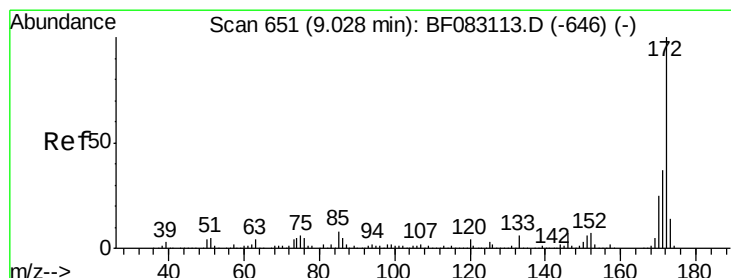
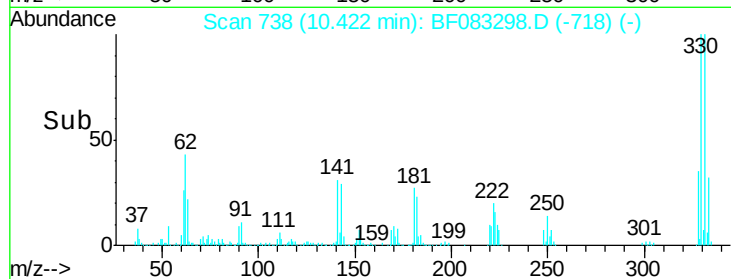
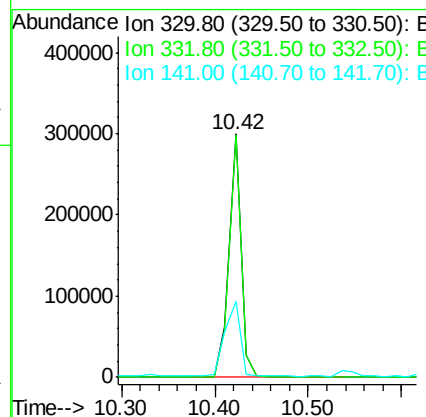
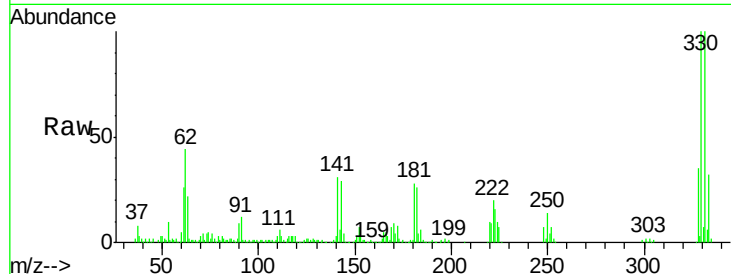
#41
 2,4,6-Tribromophenol
 Concen: 104.60 ng
 RT: 10.42 min Scan# 738
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tot Ion	Ratio	Resp	Lower	Upper
330	100	271335		
332	98.1		77.7	116.5
141	40.5		29.7	44.5

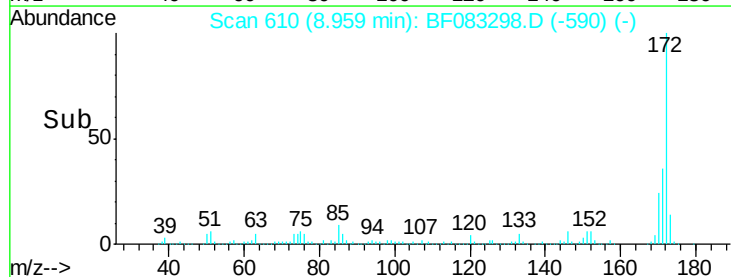
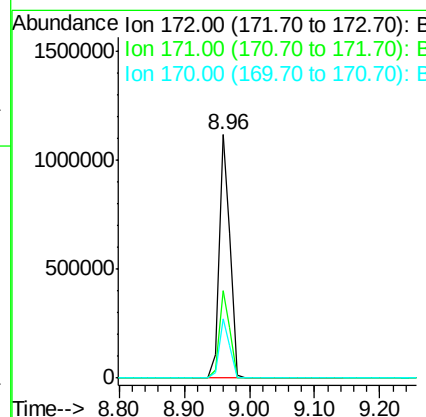
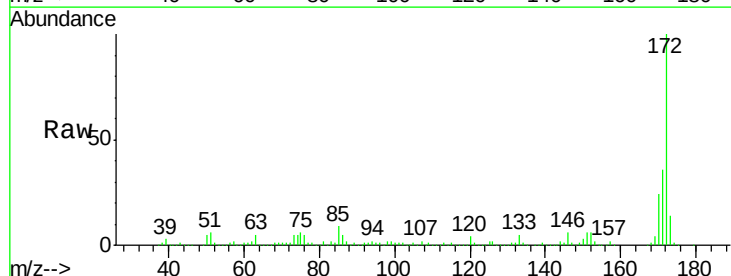
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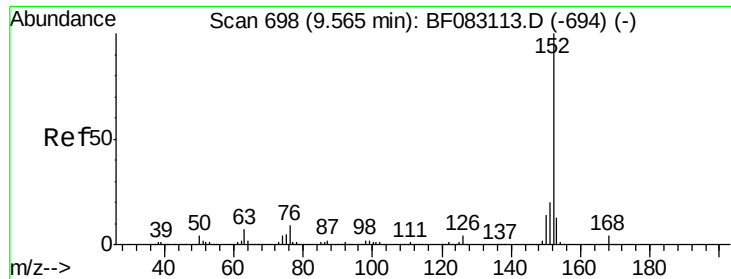
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#44
 2-Fluorobiphenyl
 Concen: 72.26 ng
 RT: 8.96 min Scan# 610
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1313935		
171	35.9		29.5	44.3
170	24.3		19.9	29.9





#48

Acenaphthylene

Concen: 25.81 ng

RT: 9.50 min Scan# 657

Delta R.T. -0.07 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Instrument :

BNA_F

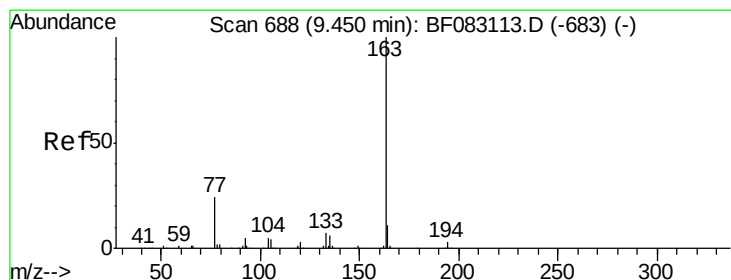
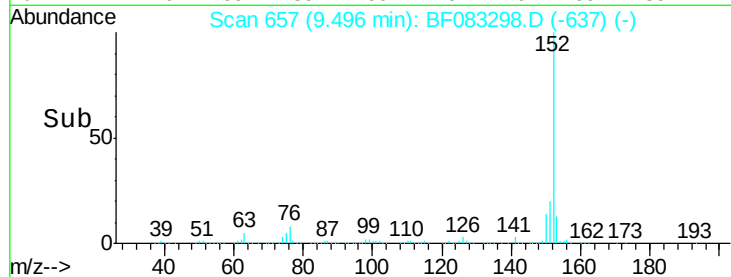
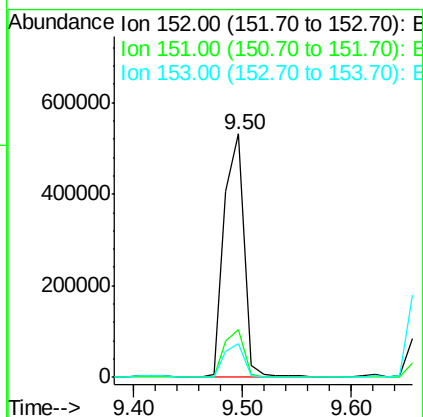
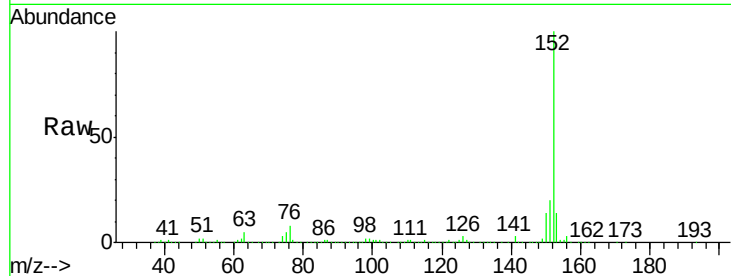
ClientSampleId :

PM-1350

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.3	24.5
153	13.6	10.8	16.2

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#49

Dimethylphthalate

Concen: 19.43 ng

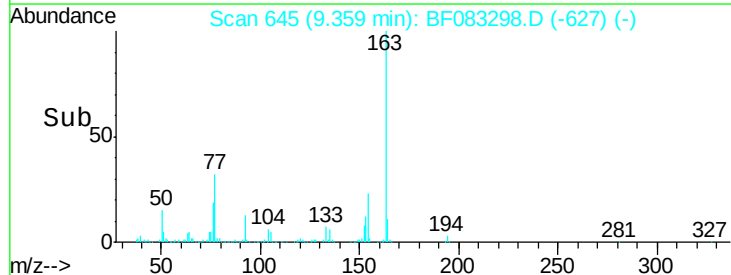
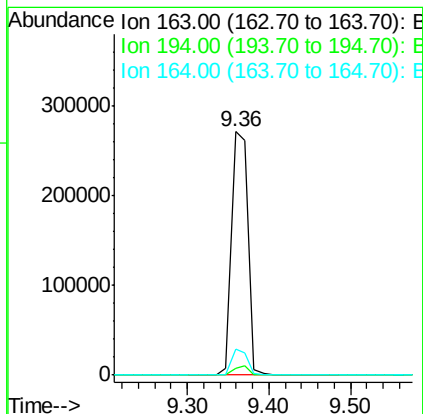
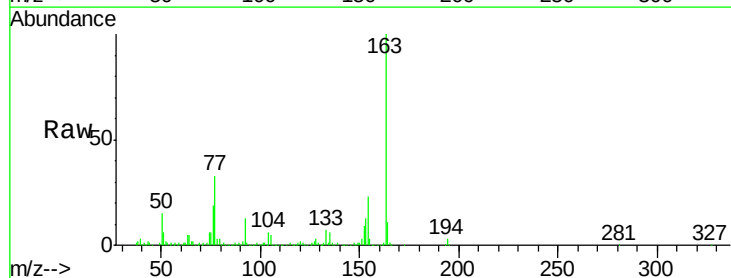
RT: 9.36 min Scan# 645

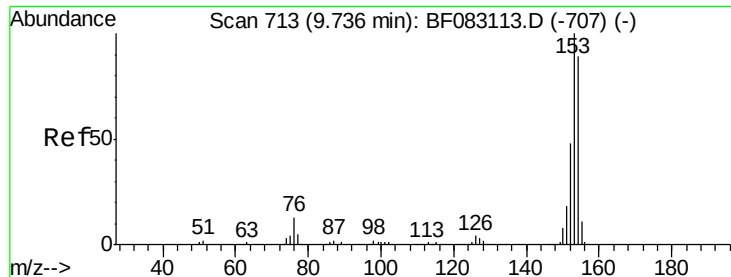
Delta R.T. -0.09 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.6	4.0
164	10.5	8.6	12.8





#51

Acenaphthene

Concen: 12.28 ng

RT: 9.66 min Scan# 671

Delta R.T. -0.08 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Instrument :

BNA_F

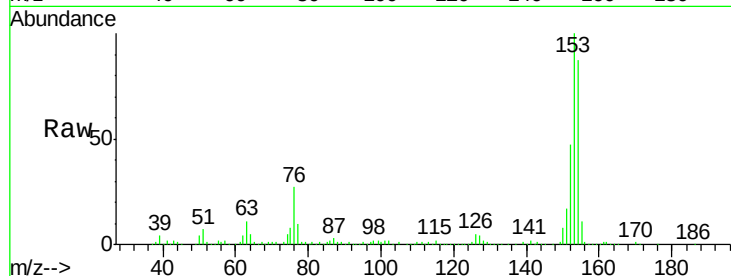
ClientSampleId :

PM-1350

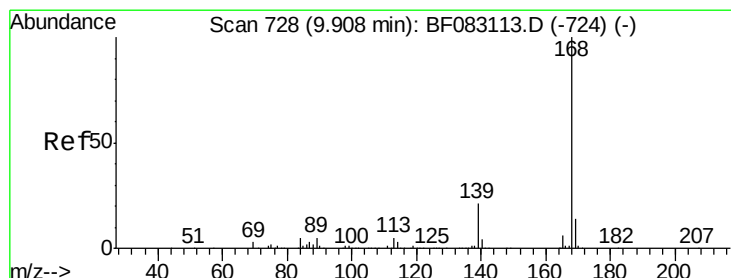
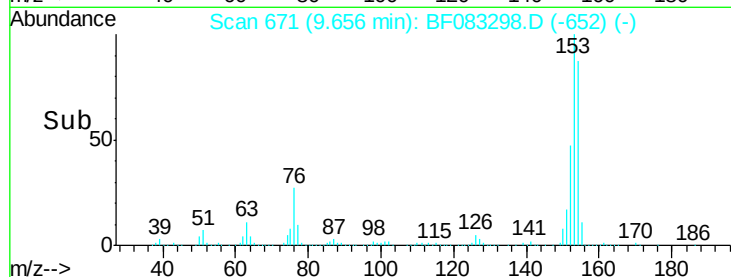
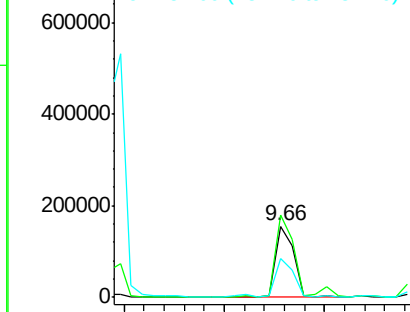
Tot Ion:	154	Resp:	196400
Ion Ratio	Lower	Upper	
154	100		
153	114.6	89.6	134.4
152	53.8	43.3	64.9

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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: 7.62 ng

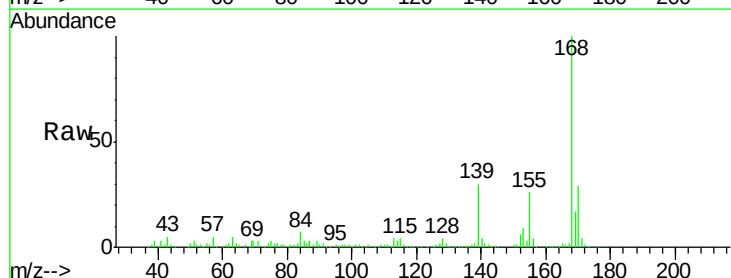
RT: 9.84 min Scan# 687

Delta R.T. -0.07 min

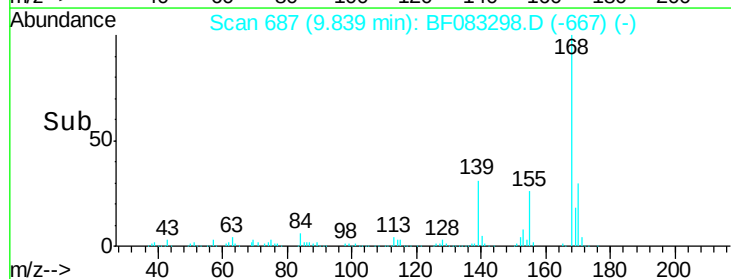
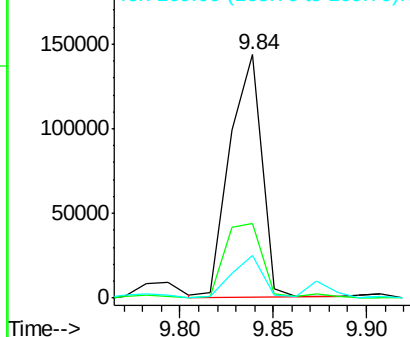
Lab File: BF083298.D

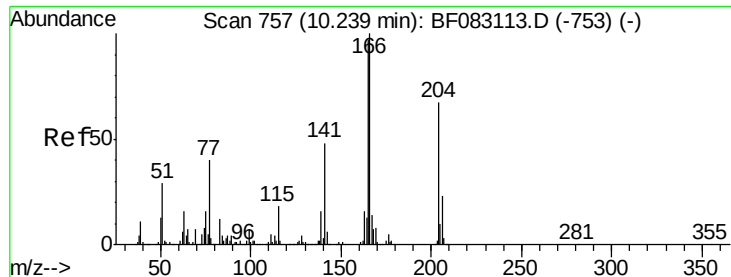
Acq: 26 Nov 2015 3:12

Tgt Ion:	168	Resp:	172201
Ion Ratio	Lower	Upper	
168	100		
139	30.5	30.2	45.2
169	17.5	10.9	16.3#



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





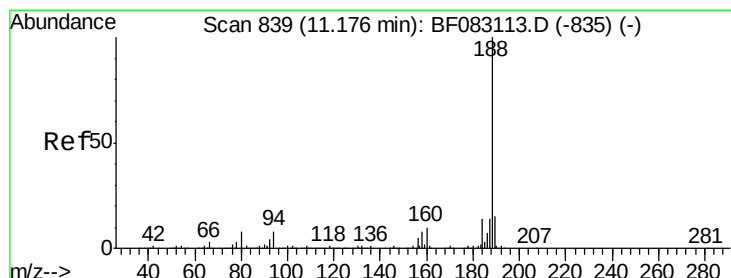
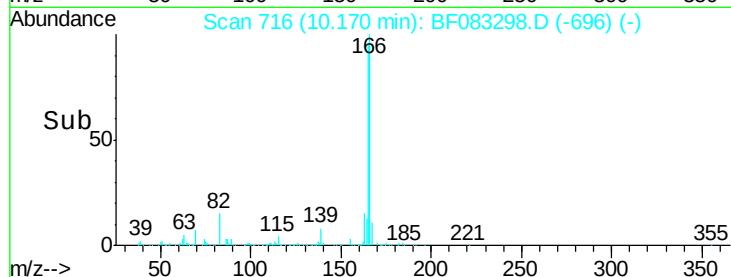
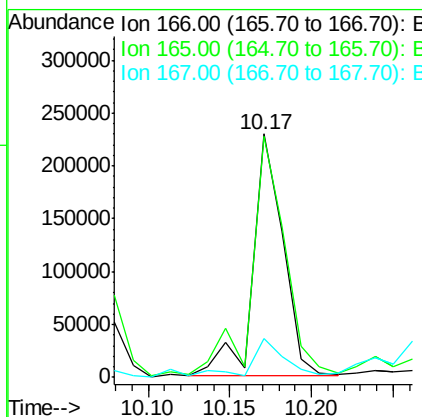
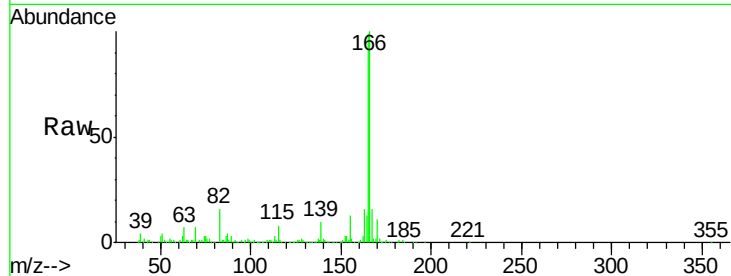
#57
Fluorene
 Concen: 15.87 ng
 RT: 10.17 min Scan# 716
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tot Ion	Ratio	Resp	Lower	Upper
166	100	296509		
165	98.8	78.0	117.0	
167	15.9	11.3	16.9	

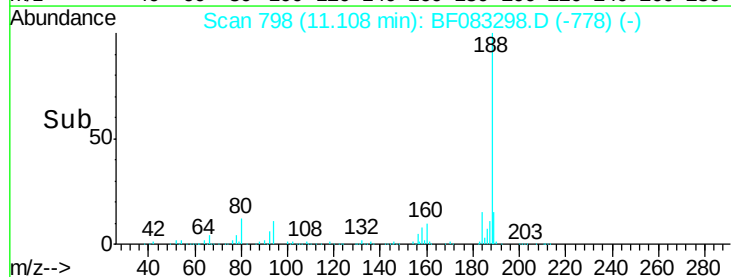
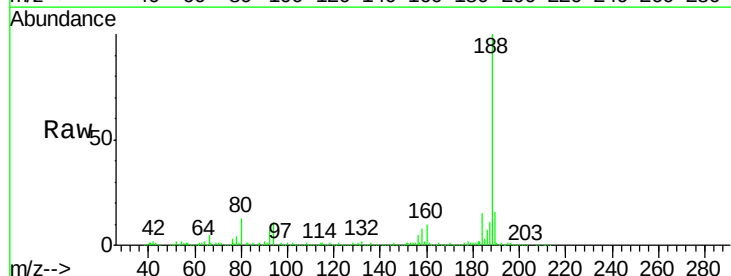
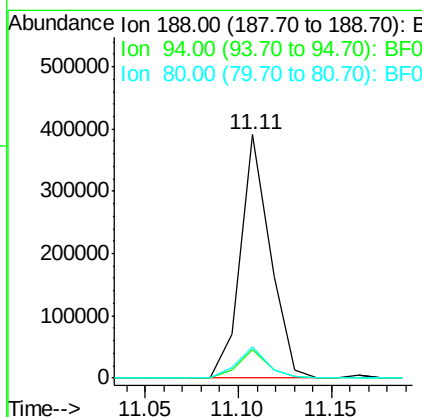
Manual Integrations
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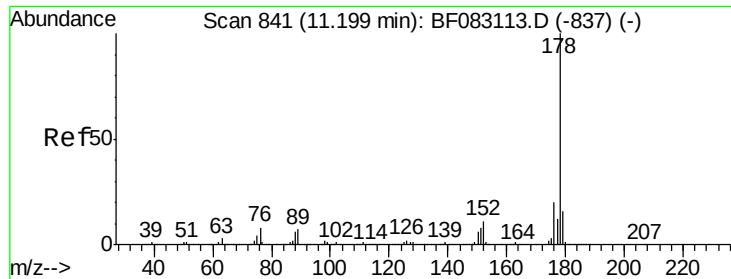
mmdadoda
 11/26/2015 6:43:50 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.11 min Scan# 798
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	438837		
94	11.5	6.0	9.0#	
80	12.6	6.7	10.1#	





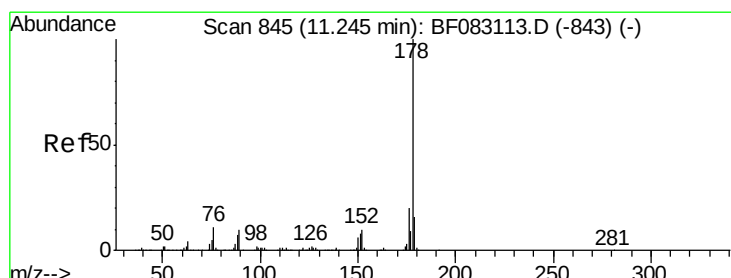
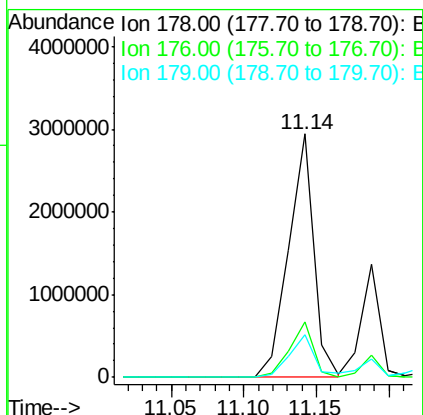
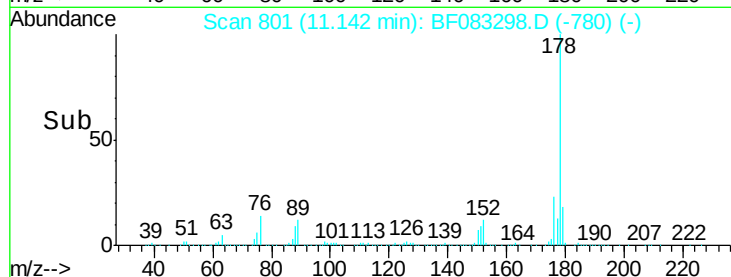
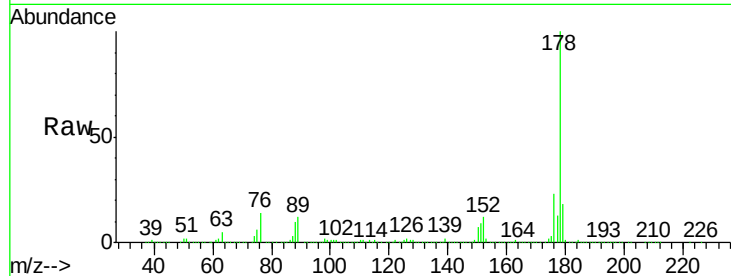
#70
Phenanthrene
Concen: 140.01 ng
RT: 11.14 min Scan# 801
Delta R.T. -0.06 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tot Ion:178 Resp: 3539865
Ion Ratio Lower Upper
178 100
176 22.5 16.2 24.2
179 17.7 12.8 19.2

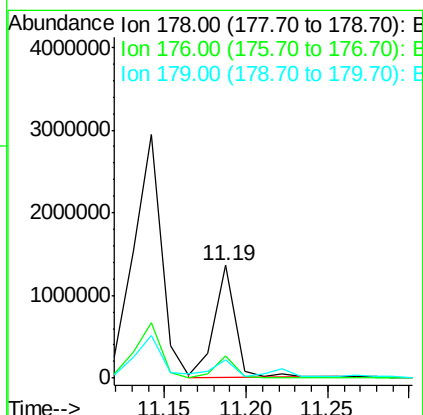
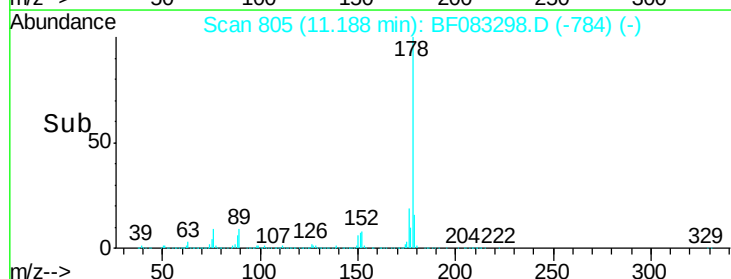
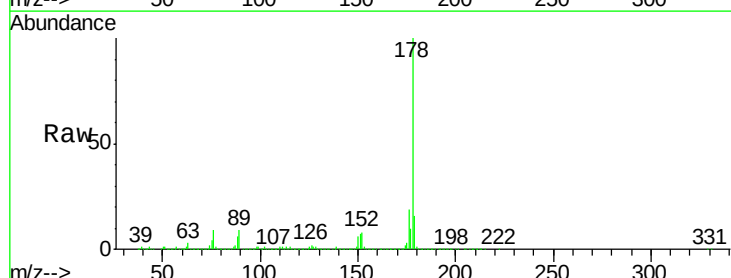
Manual Integrations
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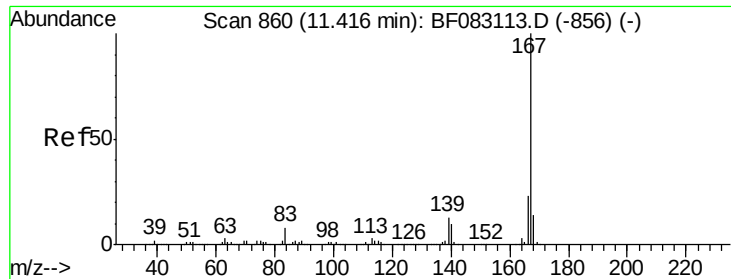
mmdadoda
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#71
Anthracene
Concen: 47.29 ng
RT: 11.19 min Scan# 805
Delta R.T. -0.06 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion:178 Resp: 1219903
Ion Ratio Lower Upper
178 100
176 19.4 15.6 23.4
179 16.3 13.2 19.8





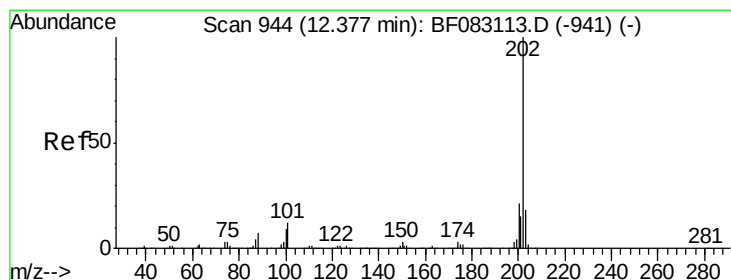
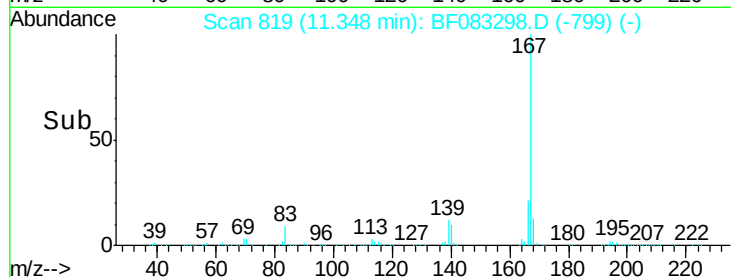
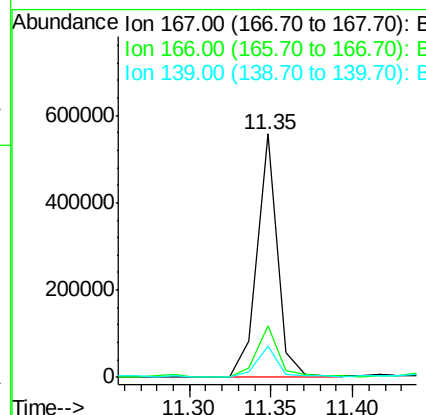
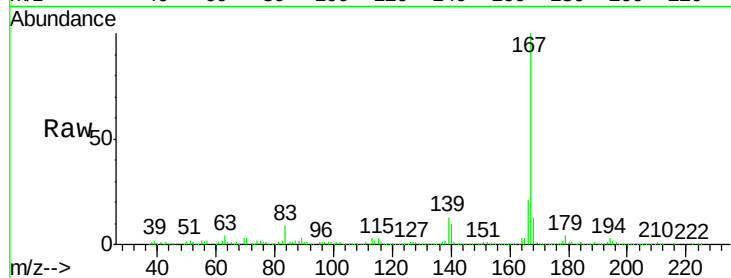
#72
 Carbazole
 Concen: 21.15 ng
 RT: 11.35 min Scan# 819
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Instrument :
 BNA_F
 ClientSampleId :
 PM-1350

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100				
166	21.4	18.0	27.0		
139	12.8	10.5	15.7		

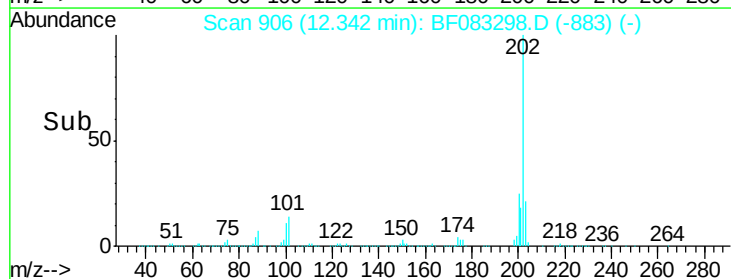
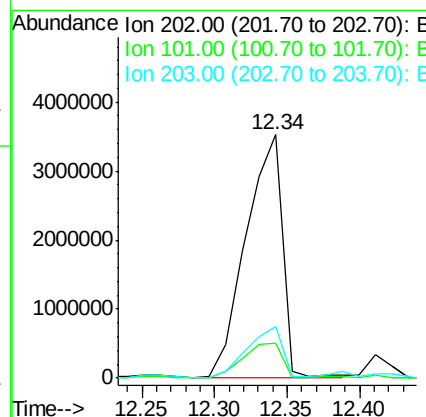
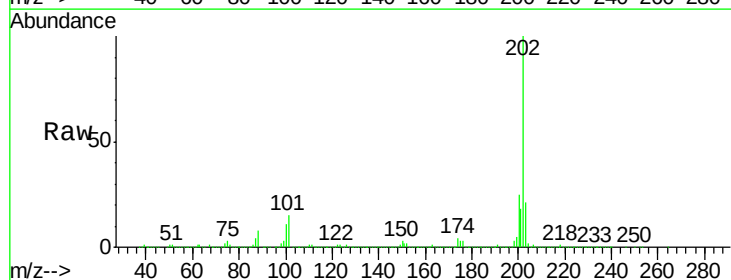
Manual Integrations
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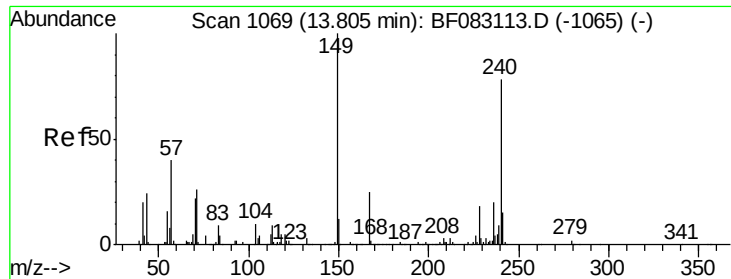
mmdadoda
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#74
 Fluoranthene
 Concen: 236.12 ng
 RT: 12.34 min Scan# 906
 Delta R.T. -0.03 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	14.6	0.0	32.3		
203	21.3	0.0	38.4		





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1030

Delta R.T. -0.05 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Instrument :

BNA_F

ClientSampleId :

PM-1350

Tot Ion:240 Resp: 337790

Ion Ratio Lower Upper

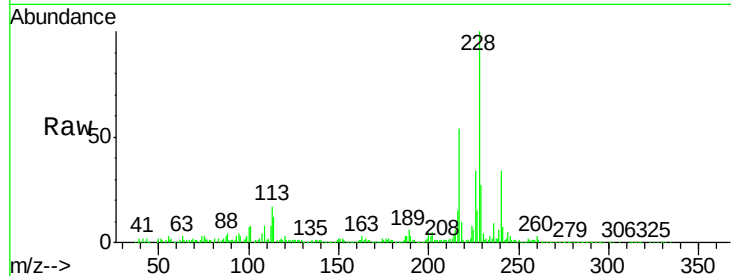
240 100

120 7.6 5.4 8.2

236 27.1 20.6 31.0

Manual Integrations
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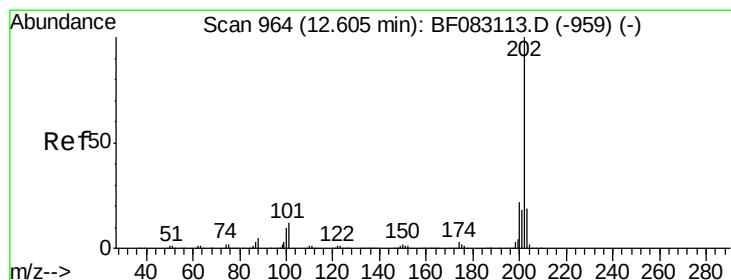
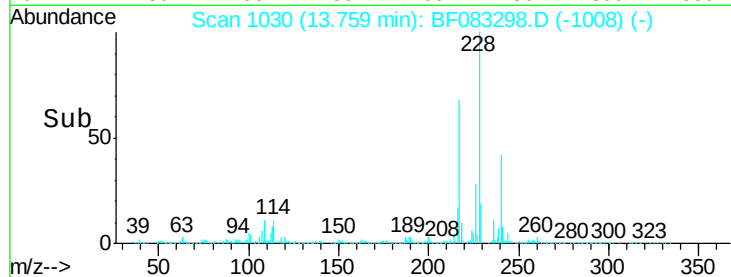
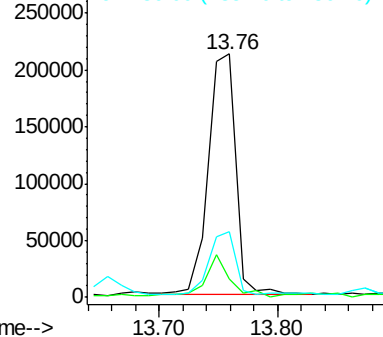
mmdadoda
11/26/2015 6:43:50 PM



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: 252.51 ng

RT: 12.57 min Scan# 926

Delta R.T. -0.03 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

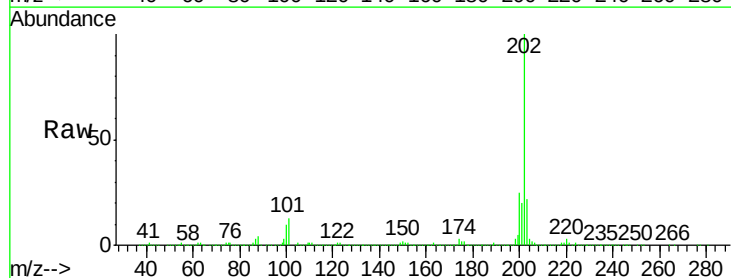
Tgt Ion:202 Resp: 5827184

Ion Ratio Lower Upper

202 100

200 24.9 17.8 26.6

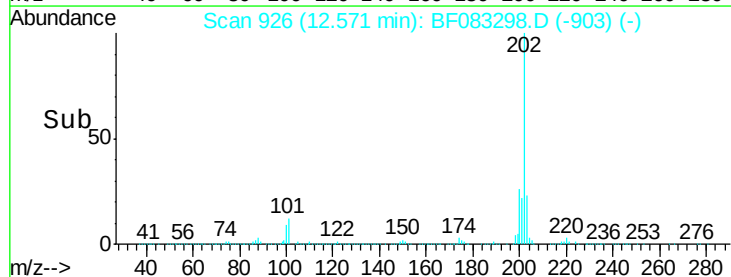
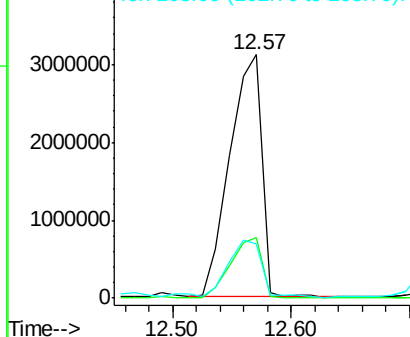
203 22.2 15.0 22.4

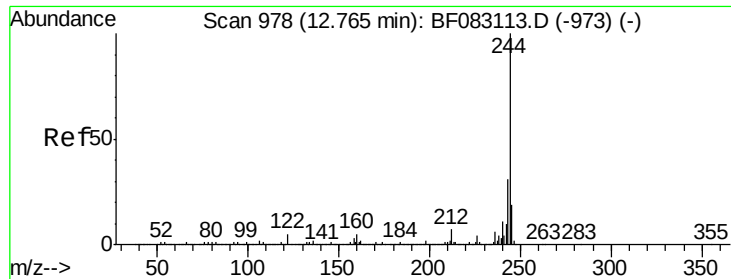


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





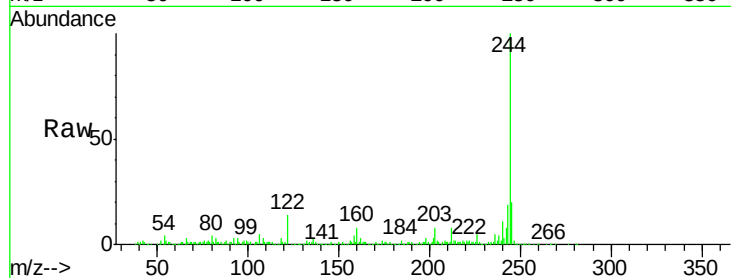
#78
 Terphenyl-d14
 Concen: 74.73 ng
 RT: 12.70 min Scan# 937
 Delta R.T. -0.07 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Instrument :
 BNA_F
 ClientSampleID :
 PM-1350

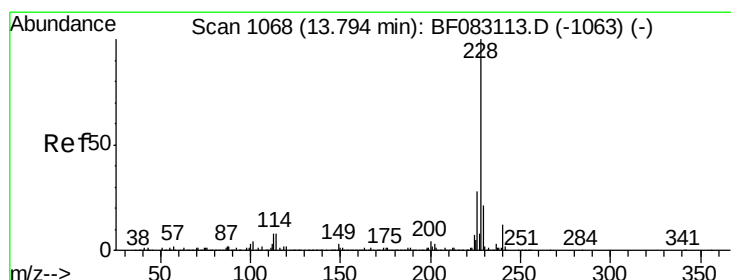
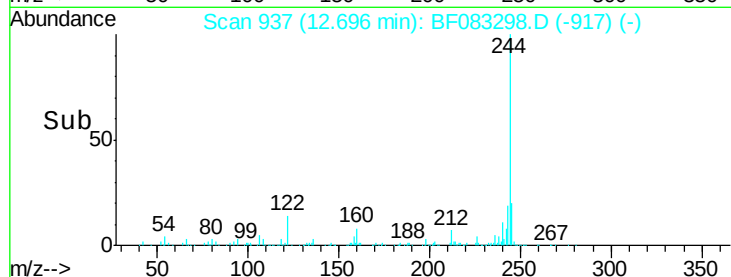
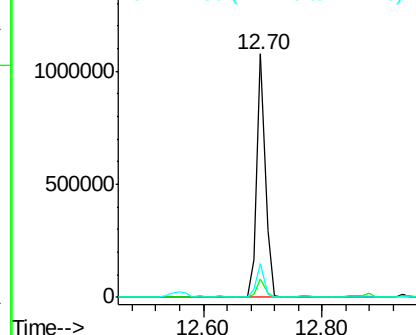
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.4	8.2
122	13.9	4.3	6.5

Manual Integrations
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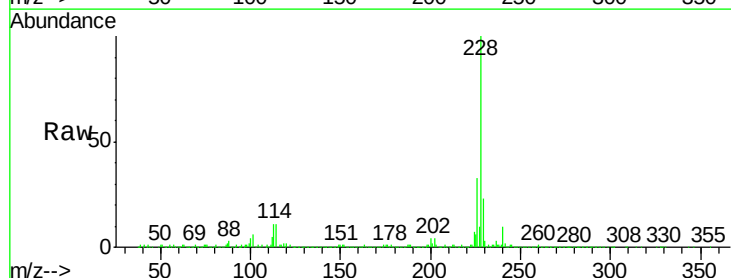


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

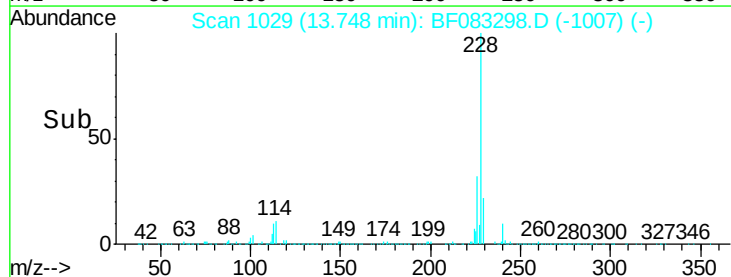
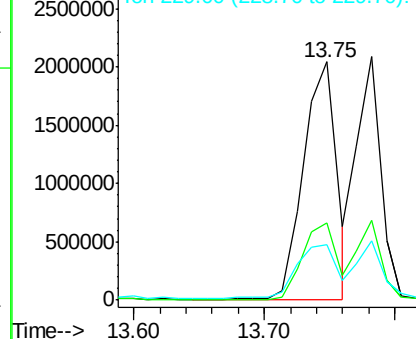


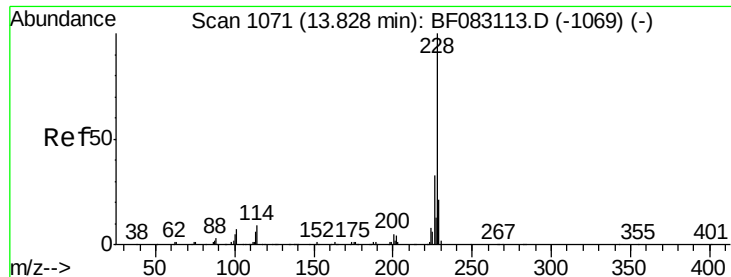
#80
 Benzo(a)anthracene
 Concen: 171.66 ng
 RT: 13.75 min Scan# 1029
 Delta R.T. -0.05 min
 Lab File: BF083298.D
 Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.7	22.6	33.8
229	23.1	16.6	24.8



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





#82

Chrysene

Concen: 141.29 ng/mL

RT: 13.78 min Scan# 1032

Delta R.T. -0.05 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

Instrument :

BNA_F

ClientSampleId :

PM-1350

Tot Ion: 228 Resp: 2737271

Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.5	38.3
229	24.6	16.6	25.0

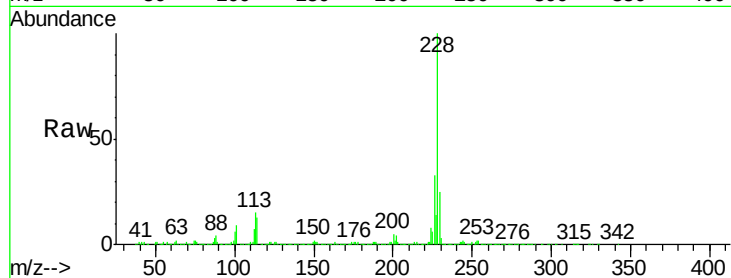
228 100

226 32.9 25.5 38.3

229 24.6 16.6 25.0

Manual Integrations
APPROVED

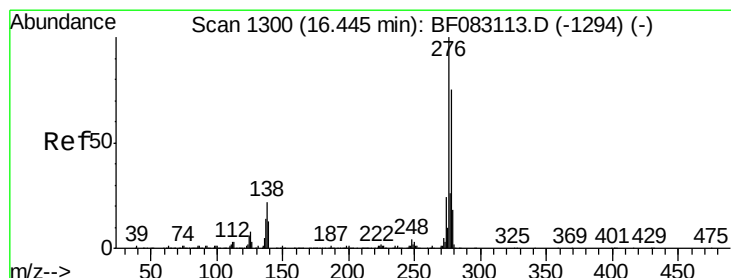
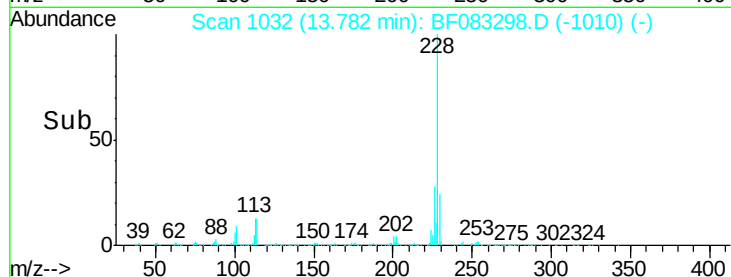
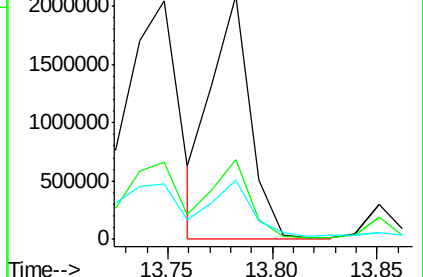
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 69.14 ng/mL

RT: 16.35 min Scan# 1257

Delta R.T. -0.09 min

Lab File: BF083298.D

Acq: 26 Nov 2015 3:12

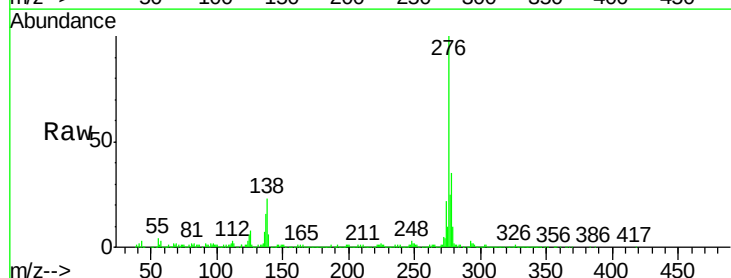
Tgt Ion: 276 Resp: 1218359

Ion	Ratio	Lower	Upper
276	100		
138	20.5	18.0	27.0
277	24.3	20.2	30.4

276 100

138 20.5 18.0 27.0

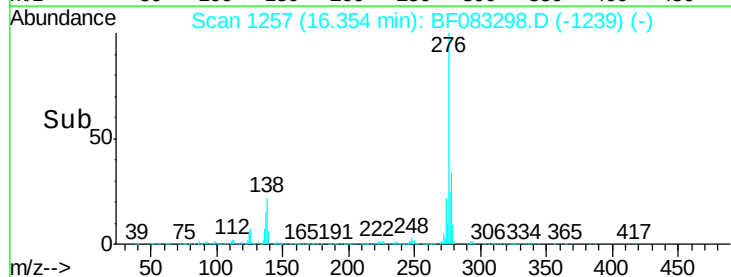
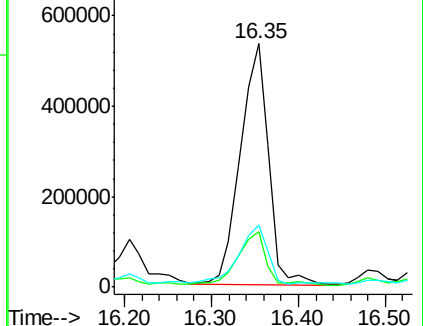
277 24.3 20.2 30.4

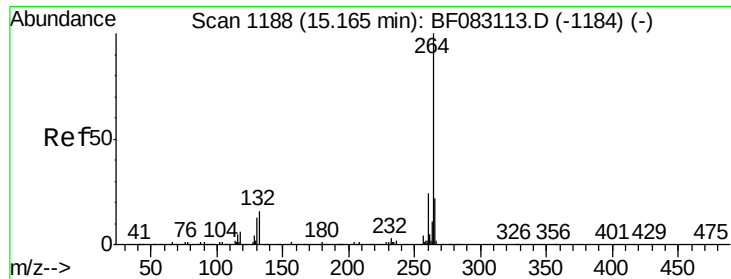


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





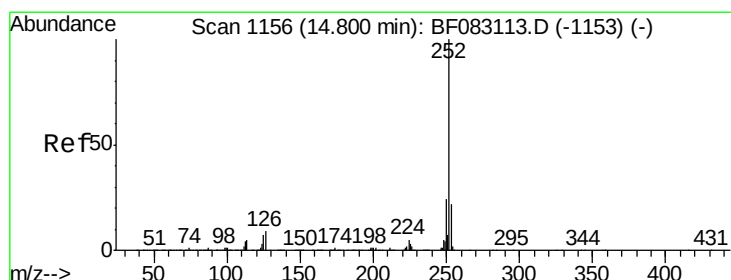
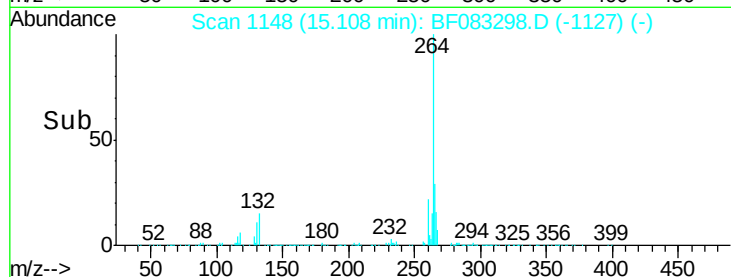
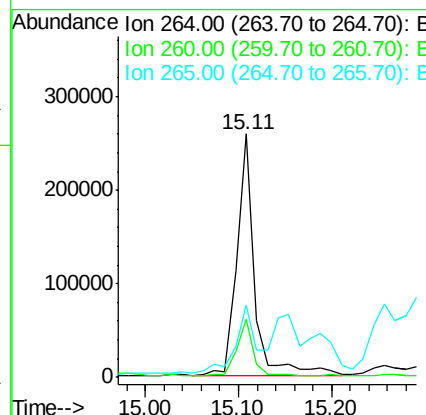
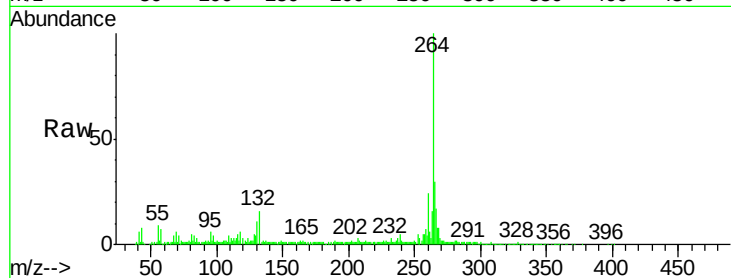
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.11 min Scan# 1148
Delta R.T. -0.06 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	29.7	18.2	27.4

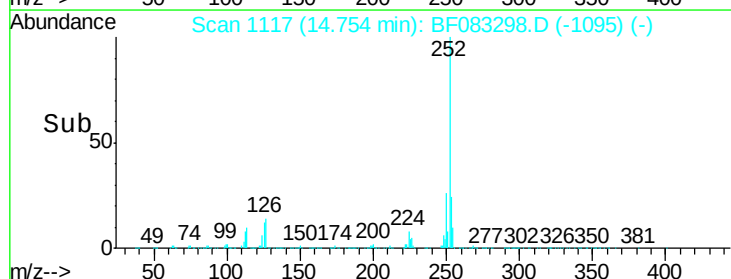
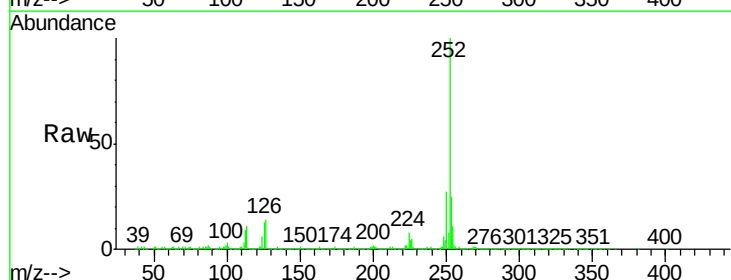
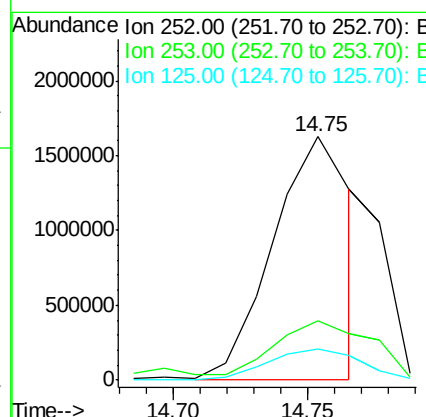
Manual Integrations
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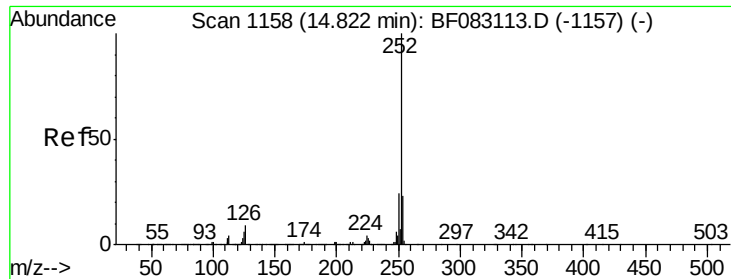
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#87
Benzo(b)fluoranthene
Concen: 142.35 ng m
RT: 14.75 min Scan# 1117
Delta R.T. -0.05 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.7	26.5
125	12.8	5.6	8.4





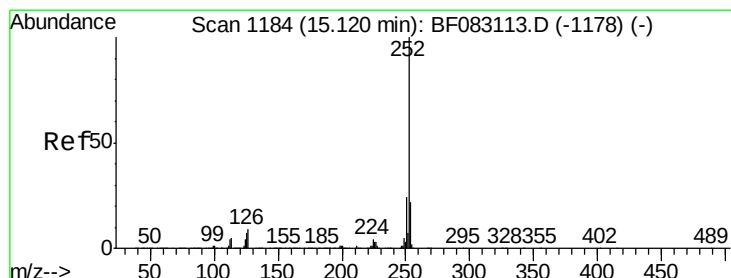
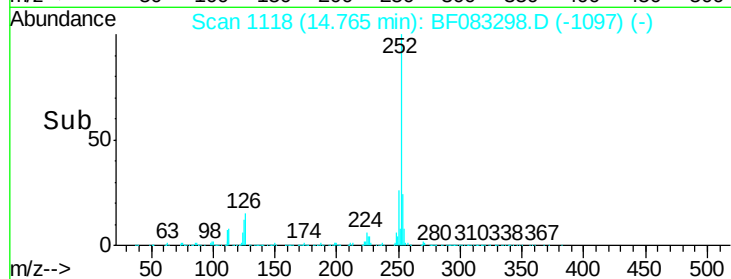
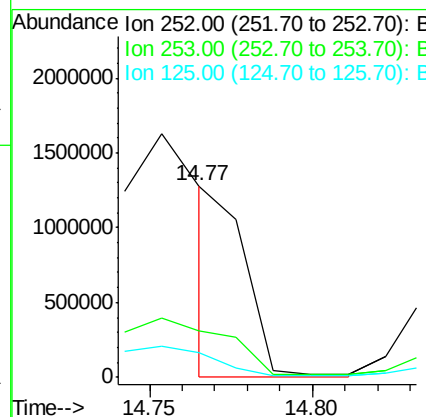
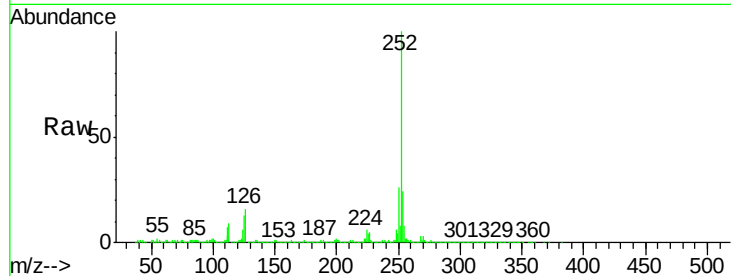
#88
Benzo(k)fluoranthene
Concen: 45.57 ng m
RT: 14.77 min Scan# 1118
Delta R.T. -0.06 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampleId :
PM-1350

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.2	27.2
125	12.7	6.8	10.2

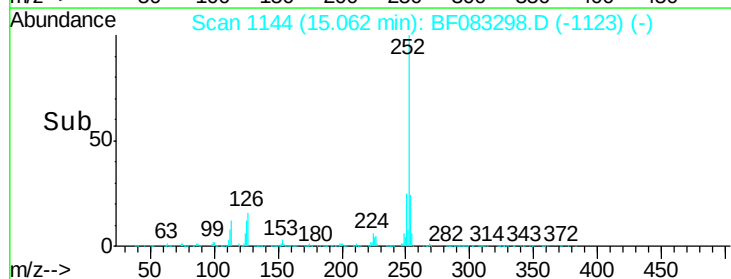
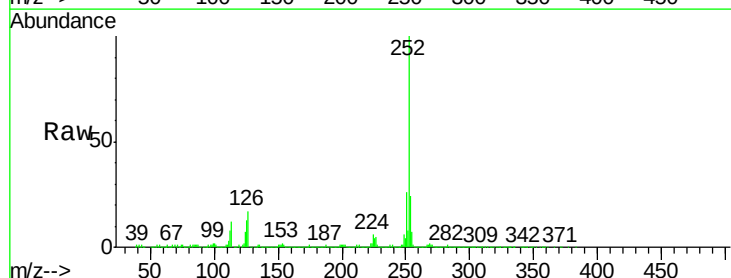
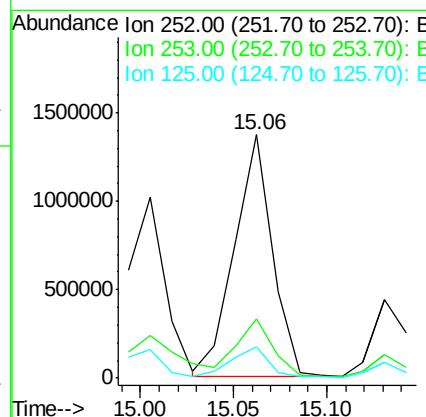
Manual Integrations
APPROVED

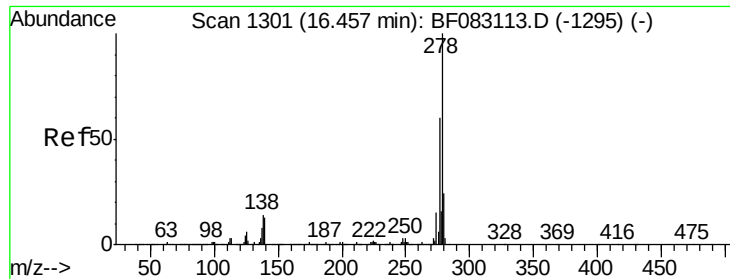
mmdadoda
11/26/2015 6:43:50 PM



#89
Benzo(a)pyrene
Concen: 101.47 ng
RT: 15.06 min Scan# 1144
Delta R.T. -0.06 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.5	26.3
125	13.0	5.4	8.0





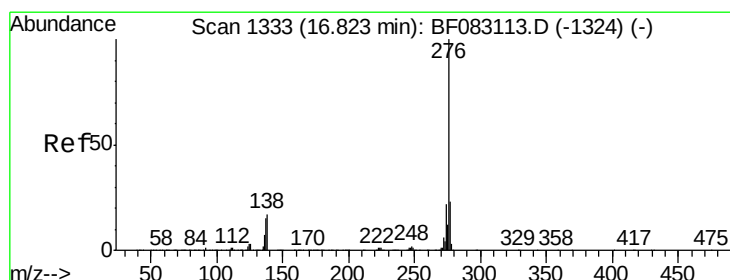
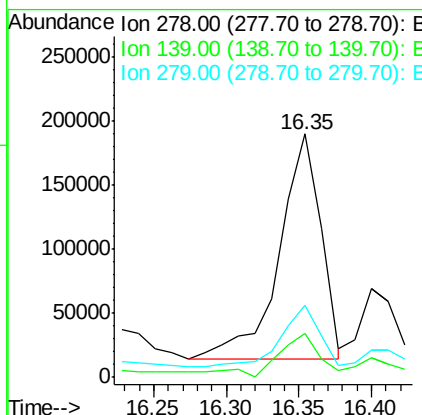
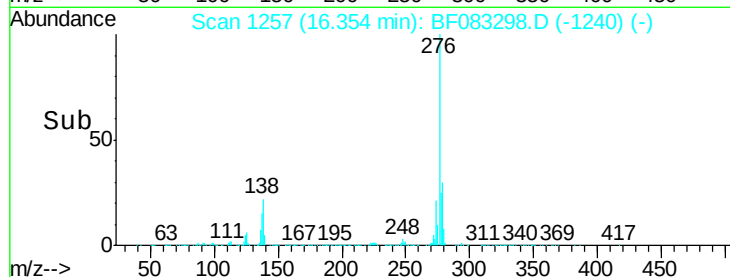
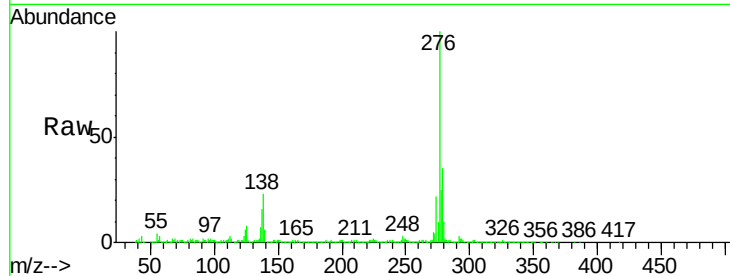
#90
Dibenzo(a,h)anthracene
Concen: 20.08 ng/mL
RT: 16.35 min Scan# 1257
Delta R.T. -0.10 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Instrument :
BNA_F
ClientSampled :
PM-1350

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.3	10.7	16.1#
279	29.8	19.3	28.9#

Manual Integrations
APPROVED

mmdadoda
11/26/2015 6:43:50 PM



#91
Benzo(g,h,i)perylene
Concen: 60.96 ng/mL
RT: 16.72 min Scan# 1289
Delta R.T. -0.10 min
Lab File: BF083298.D
Acq: 26 Nov 2015 3:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.7	28.1
138	24.3	13.9	20.9#

