

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097340.D
 Acq On : 4 Aug 2017 2:12
 Operator : SJ/JU
 Sample : I4522-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-SS1

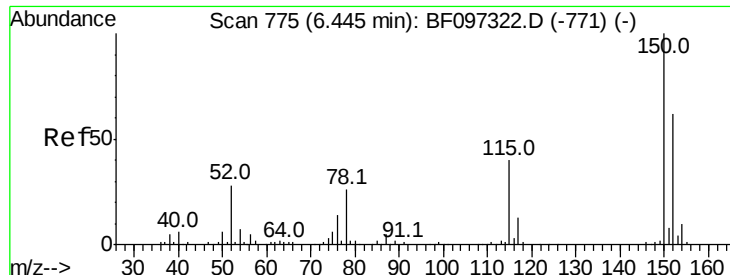
Manual Integrations
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Quant Time: Aug 04 02:53:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	112304	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	412881	20.00	ng	-0.06
38) Acenaphthene-d10	9.47	164	144583	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	224088	20.00	ng	-0.06
75) Chrysene-d12	13.59	240	117210	20.00	ng	-0.04
86) Perylene-d12	14.92	264	116418	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	653092	87.67	ng	-0.05
7) Phenol-d6	6.12	99	813824	95.69	ng	-0.05
23) Nitrobenzene-d5	7.02	82	481274	68.38	ng	-0.06
41) 2,4,6-Tribromophenol	10.26	330	104479	91.46	ng	-0.06
44) 2-Fluorobiphenyl	8.80	172	676037	79.35	ng	-0.06
78) Terphenyl-d14	12.53	244	462455	80.44	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	7.75	128	448641	23.051	ng	100
37) 2-Methylnaphthalene	8.44	142	146848	11.917	ng	99
45) 1,1'-Biphenyl	8.90	154	47965	3.884	ng	98
48) Acenaphthylene	9.33	152	135762	9.733	ng	98
49) Dimethylphthalate	9.20	163	127387	11.602	ng	98
51) Acenaphthene	9.50	154	365287	44.458	ng	100
54) Dibenzofuran	9.67	168	367694	33.597	ng	99
57) Fluorene	10.02	166	409937	49.837	ng	98
70) Phenanthrene	10.99	178	2657500	221.334	ng	99
71) Anthracene	11.03	178	974715	79.261	ng	99
72) Carbazole	11.19	167	509121	42.096	ng	98
74) Fluoranthene	12.18	202	2989368	254.145	ng	99
77) Pvrene	12.40	202	2499482	260.482	ng	98
80) Benzo(a)anthracene	13.57	228	1532108	202.019	ng	97
82) Chrysene	13.62	228	1228478m	165.887	ng	
85) Indeno(1,2,3-cd)pyrene	16.14	276	592388	93.289	ng	92
87) Benzo(b)fluoranthene	14.58	252	1310339m	187.241	ng	
88) Benzo(k)fluoranthene	14.60	252	423870m	63.562	ng	
89) Benzo(a)pvrene	14.89	252	930899	145.343	ng	96
90) Dibenzo(a,h)anthracene	16.14	278	147023m	27.992	ng	
91) Benzo(g,h,i)perylene	16.50	276	497655	90.352	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.45 min Scan# 775

Delta R.T. -0.05 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Instrument :

BNA_F

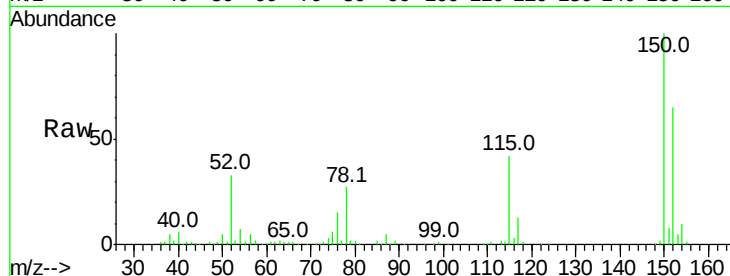
ClientSampled :

TP-2-SS1

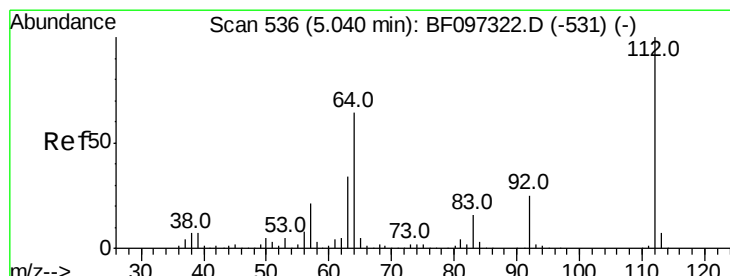
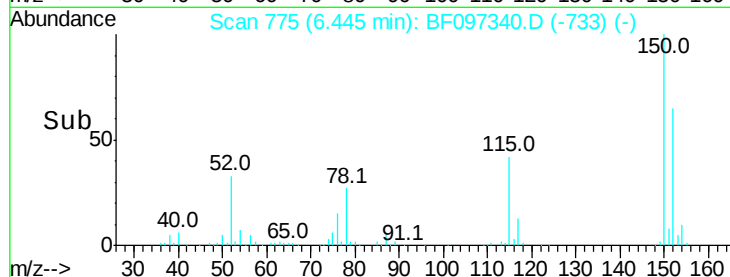
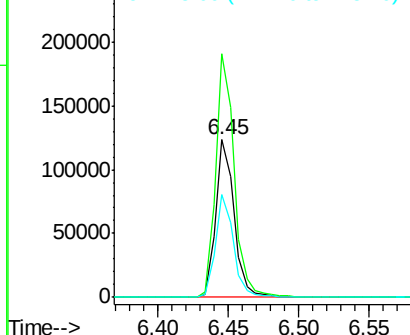
Tot Ion:	152	Resp:	112304
Ion Ratio	Lower	Upper	
152	100		
150	154.6	126.2	189.2
115	65.6	52.2	78.2

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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: 87.666 ng

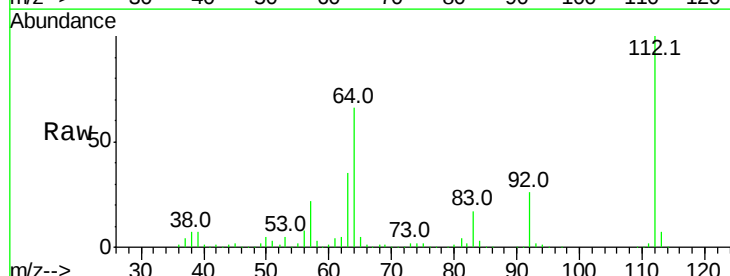
RT: 5.05 min Scan# 537

Delta R.T. -0.05 min

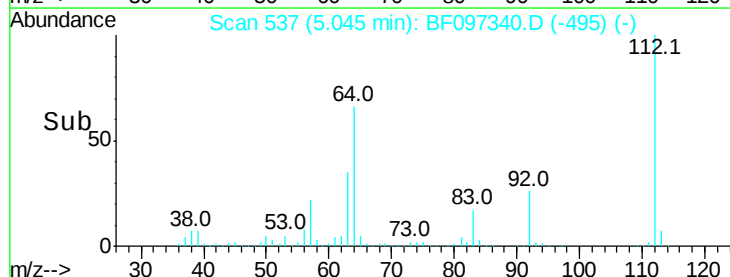
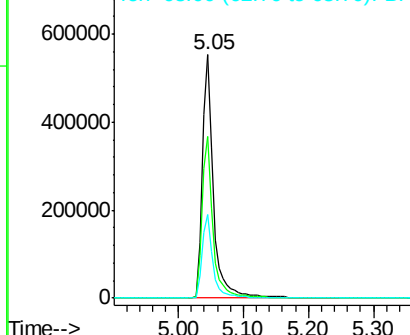
Lab File: BF097340.D

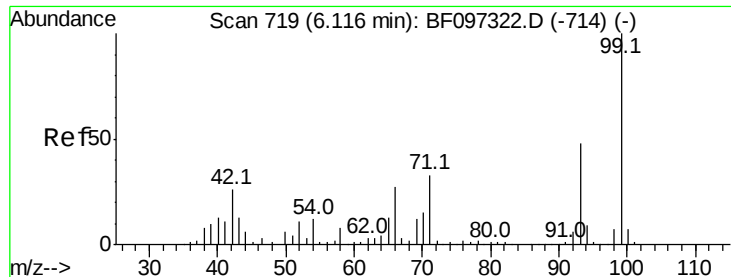
Acq: 4 Aug 2017 2:12

Tgt Ion:	112	Resp:	653092
Ion Ratio	Lower	Upper	
112	100		
64	66.5	46.0	69.0
63	34.5	23.4	35.0



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: 95.690 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Instrument :

BNA_F

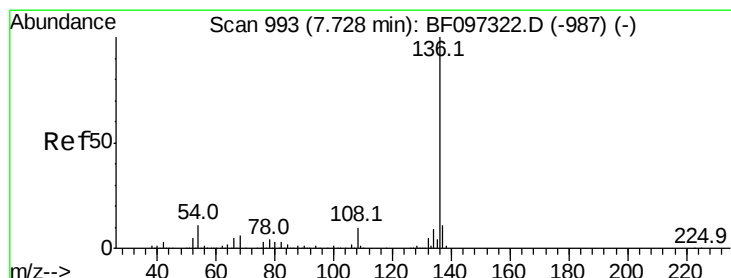
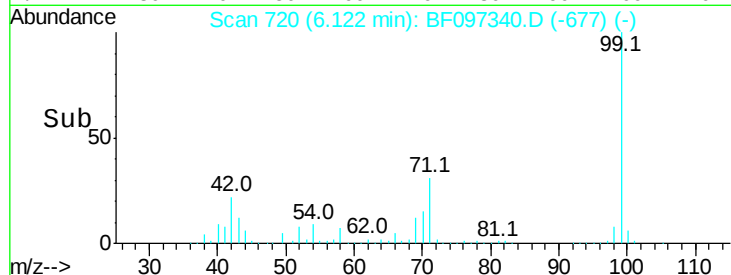
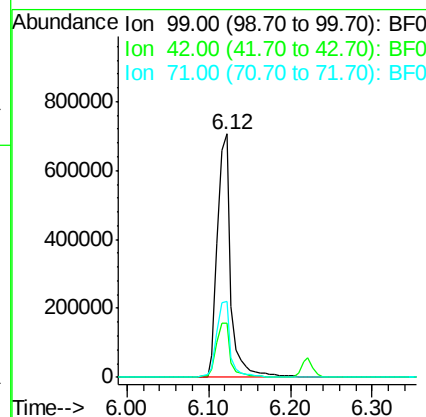
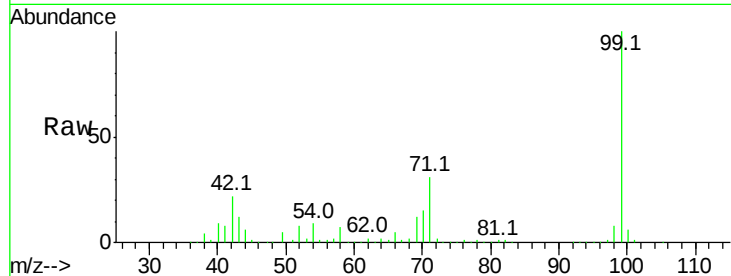
ClientSampleId :

TP-2-SS1

Tot Ion:	99	Resp:	813824
Ion Ratio	Lower	Upper	
99	100		
42	22.5	13.5	20.3#
71	31.4	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

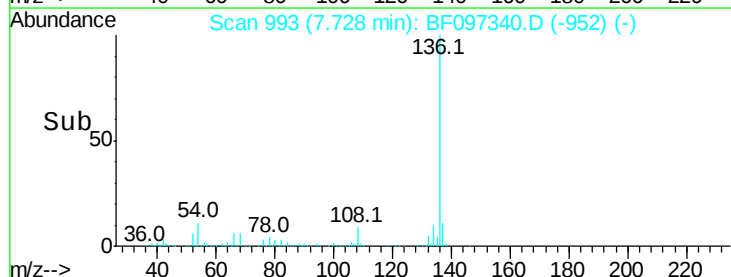
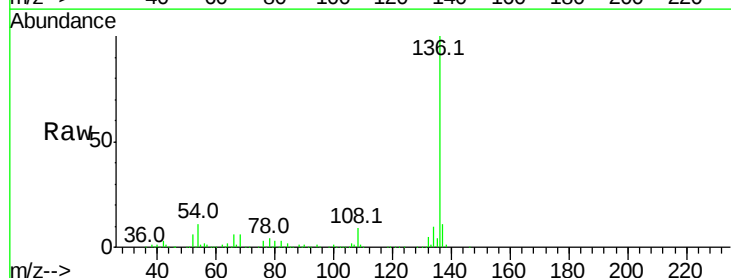
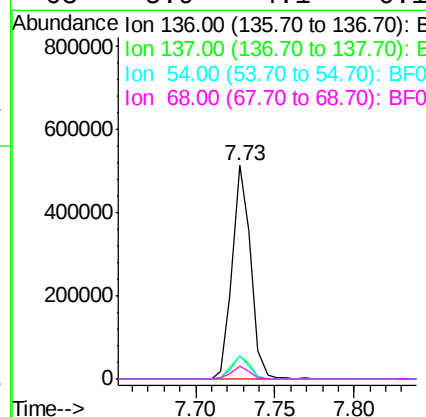
RT: 7.73 min Scan# 993

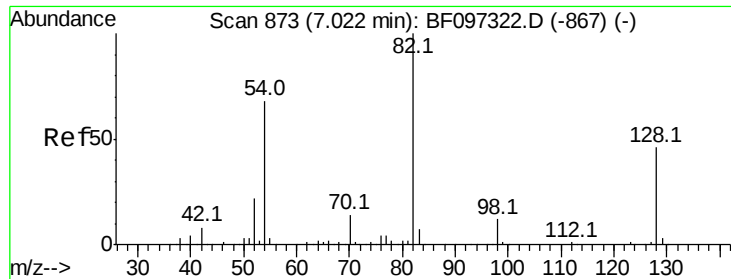
Delta R.T. -0.06 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Tgt Ion:	136	Resp:	412881
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.5	12.7
54	10.9	4.9	7.3#
68	5.9	4.1	6.1





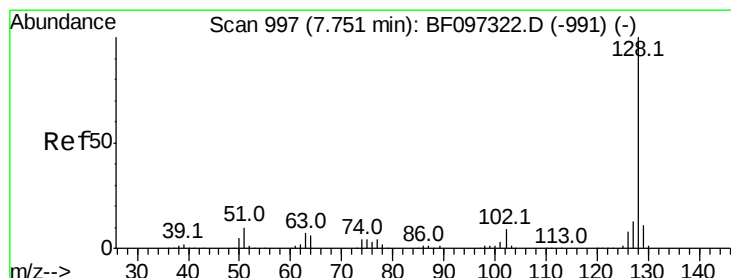
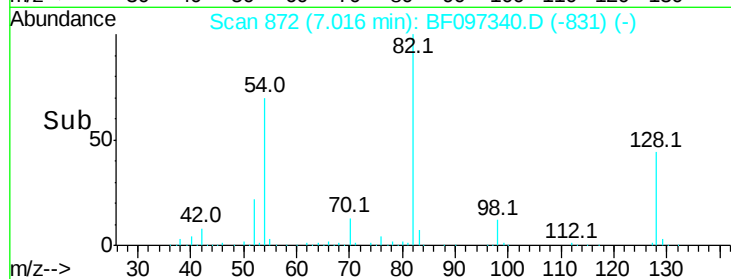
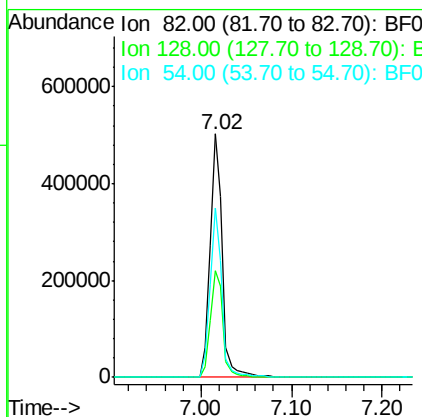
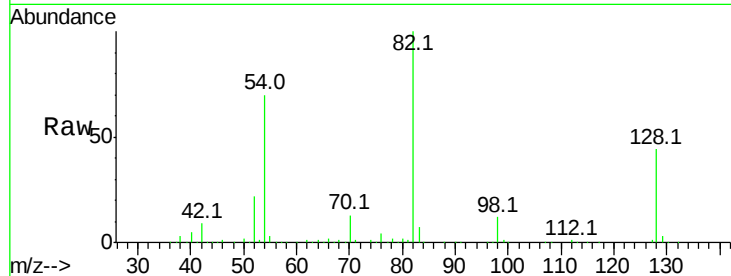
#23
 Nitrobenzene-d5
 Concen: 68.382 ng
 RT: 7.02 min Scan# 872
 Delta R.T. -0.06 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-SS1

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	34.0	51.0
54	69.5	42.2	63.2

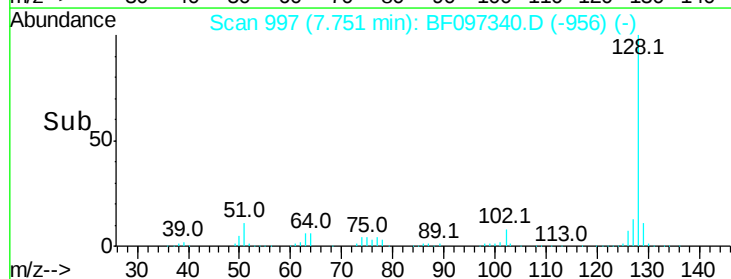
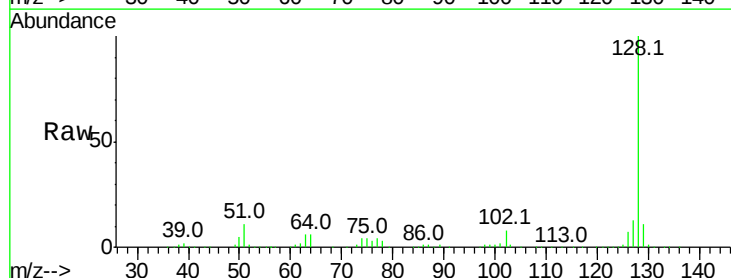
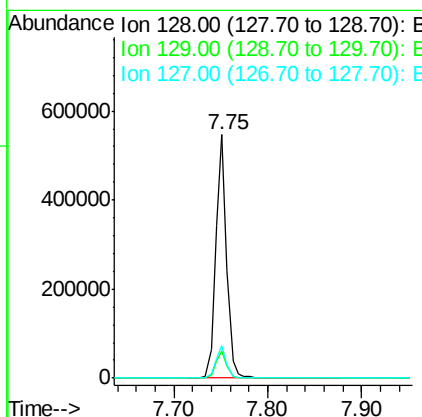
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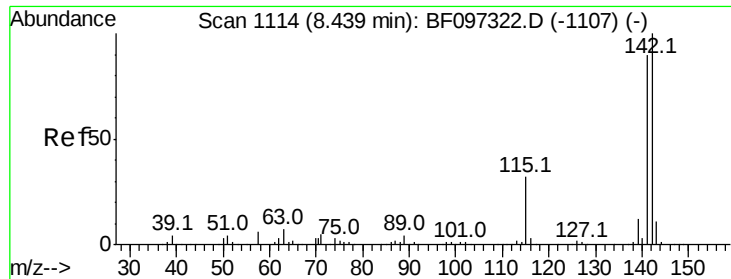
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#31
 Naphthalene
 Concen: 23.051 ng
 RT: 7.75 min Scan# 997
 Delta R.T. -0.06 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.2	10.8	16.2





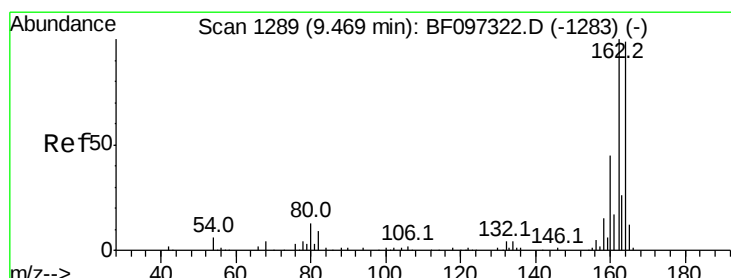
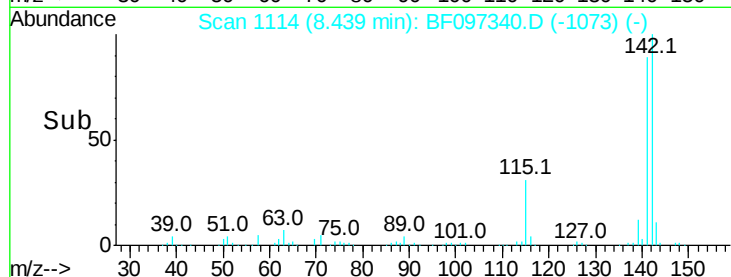
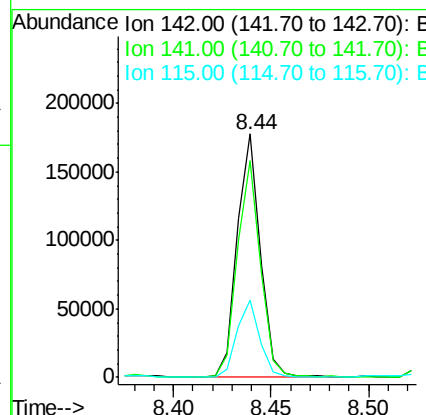
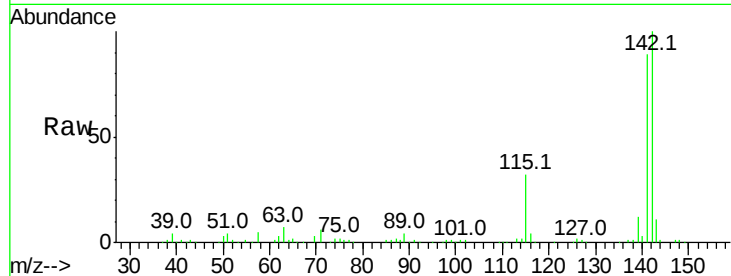
#37
2-Methylnaphthalene
Concen: 11.917 ng
RT: 8.44 min Scan# 1114
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampleId :
TP-2-SS1

Tot Ion	Ratio	Resp	Lower	Upper
142	100	146848		
141	88.9	71.3	106.9	
115	31.6	27.1	40.7	

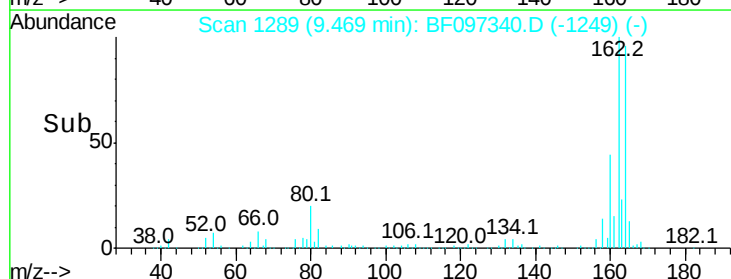
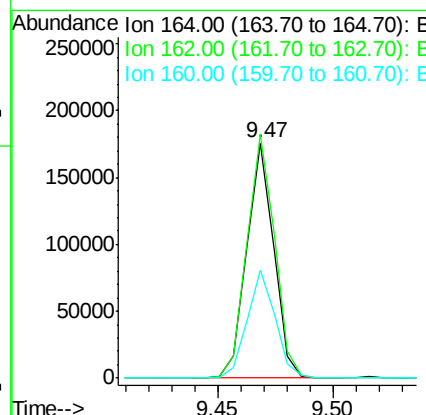
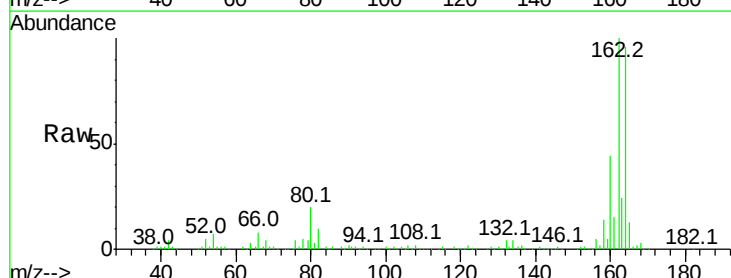
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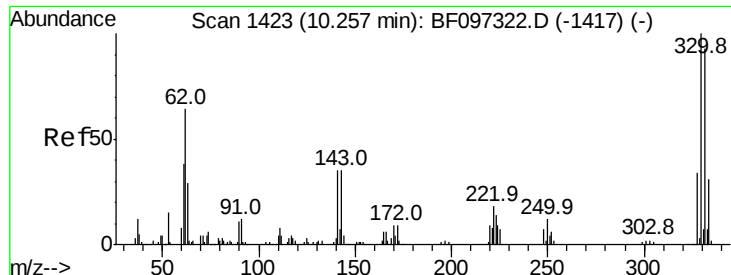
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.47 min Scan# 1289
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	144583		
162	103.6	82.6	123.8	
160	46.0	36.2	54.2	





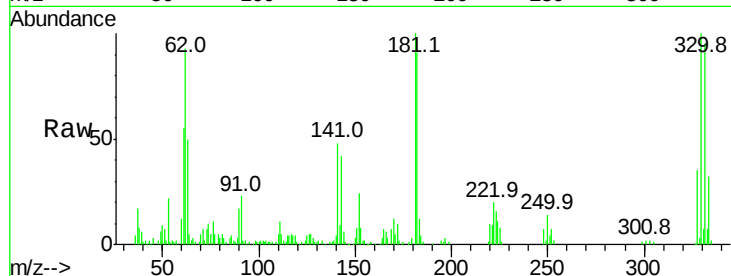
#41
 2,4,6-Tribromophenol
 Concen: 91.460 ng
 RT: 10.26 min Scan# 1423
 Delta R.T. -0.06 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Instrument :
 BNA_F
 ClientSampled :
 TP-2-SS1

Tot Ion	Ratio	Resp	Lower	Upper
330	100	104479		
332	98.7	76.6	115.0	
141	48.9	31.4	47.2	

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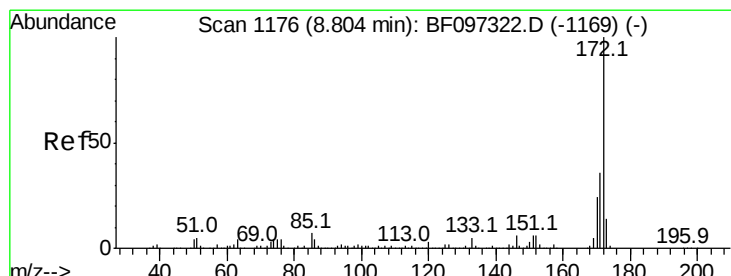
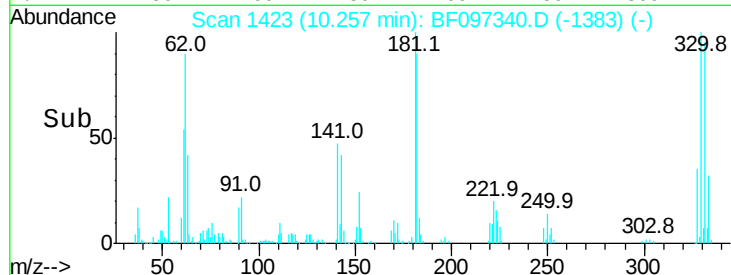
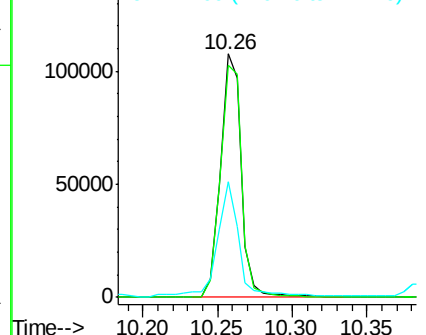


Abundance

Ion 329.80 (329.50 to 330.50): E

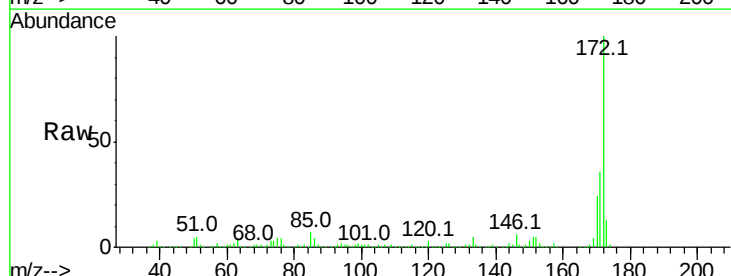
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 79.352 ng
 RT: 8.80 min Scan# 1176
 Delta R.T. -0.06 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	676037		
171	35.8	29.6	44.4	
170	24.2	19.8	29.8	

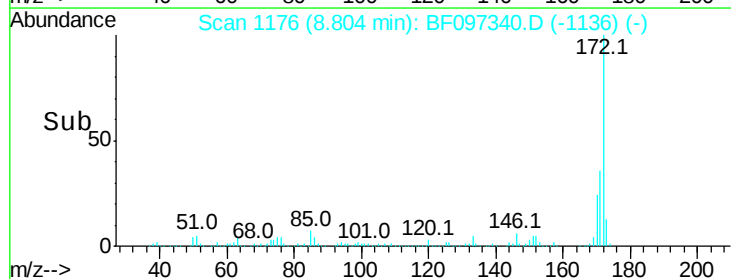
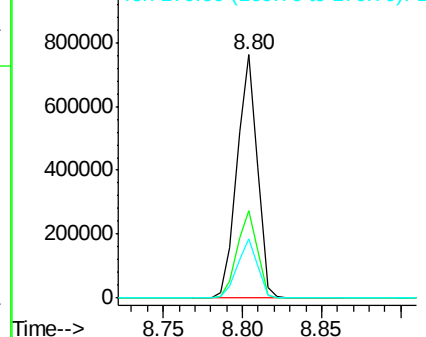


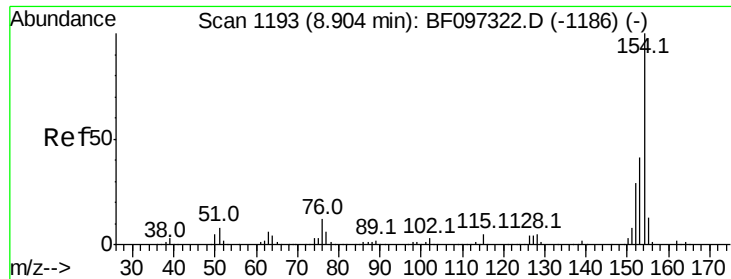
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 3.884 ng

RT: 8.90 min Scan# 1192

Delta R.T. -0.06 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Instrument :

BNA_F

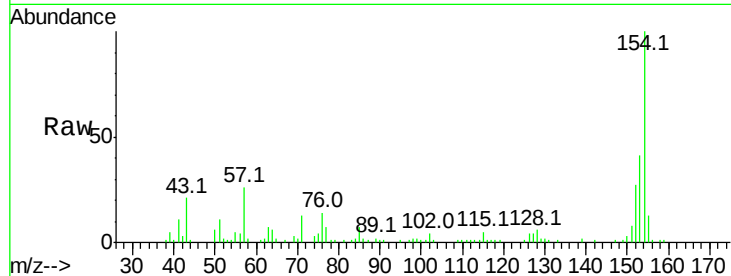
ClientSampled :

TP-2-SS1

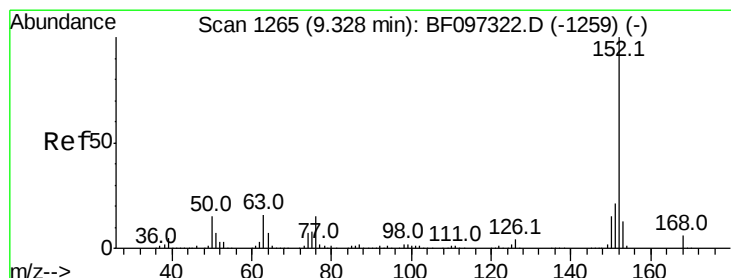
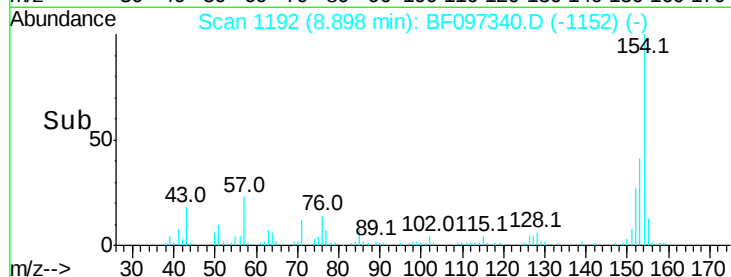
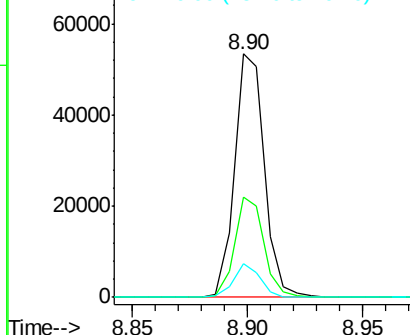
Tot Ion:	154	Resp:	47965
Ion Ratio	Lower	Upper	
154	100		
153	41.3	21.2	61.2
76	14.1	0.0	29.9

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



#48

Acenaphthylene

Concen: 9.733 ng

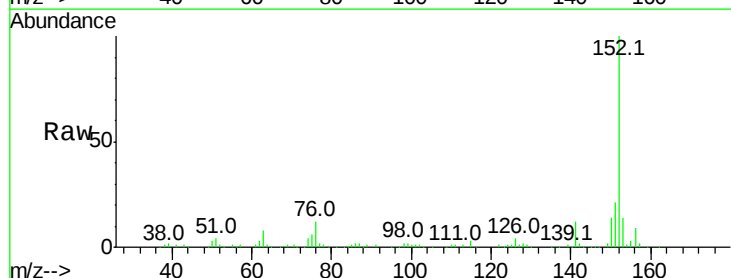
RT: 9.33 min Scan# 1265

Delta R.T. -0.06 min

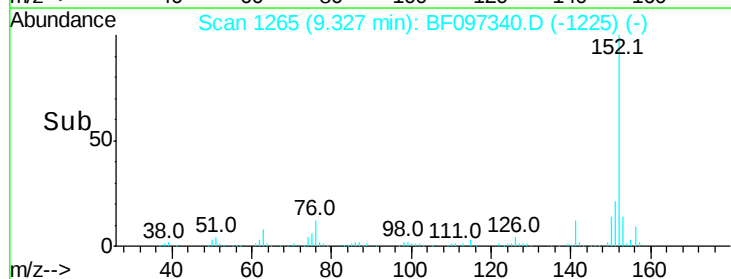
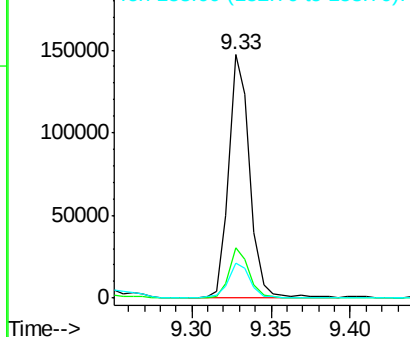
Lab File: BF097340.D

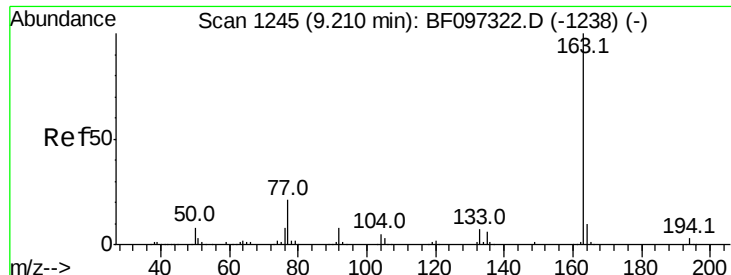
Acq: 4 Aug 2017 2:12

Tgt Ion:	152	Resp:	135762
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	14.5	10.8	16.2



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





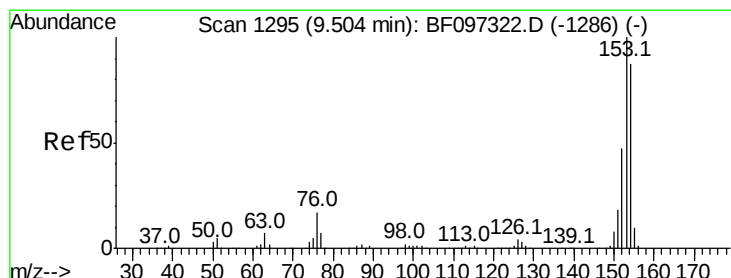
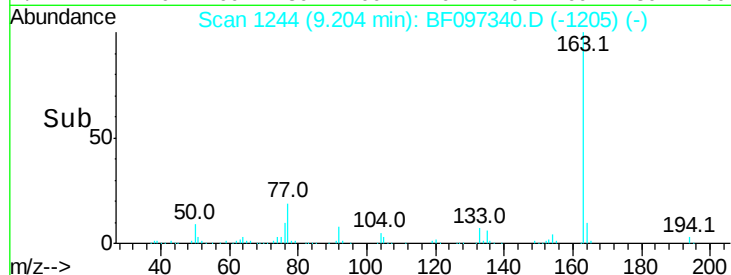
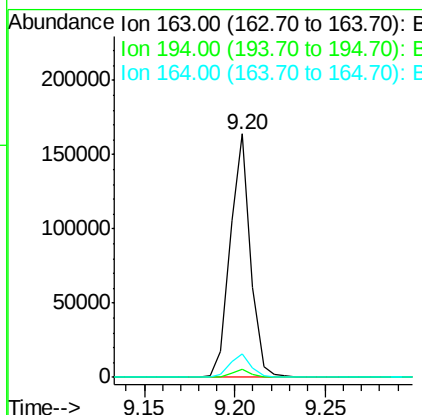
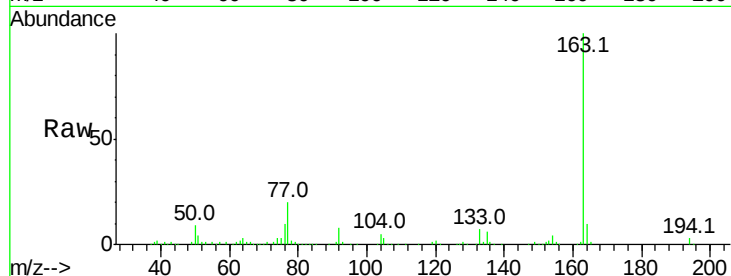
#49
Dimethylphthalate
Concen: 11.602 ng
RT: 9.20 min Scan# 1244
Delta R.T. -0.07 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampled :
TP-2-SS1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	127387		
194	3.4	2.6	4.0	
164	9.7	8.4	12.6	

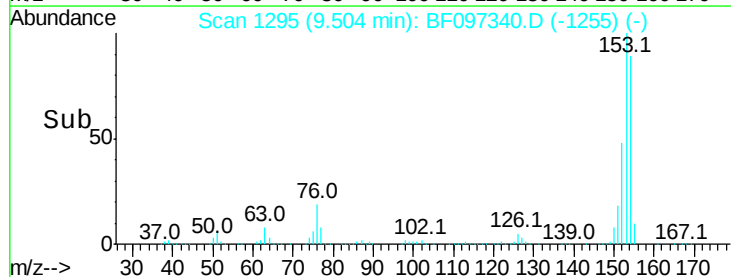
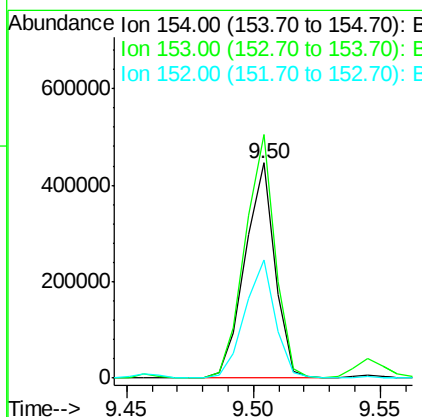
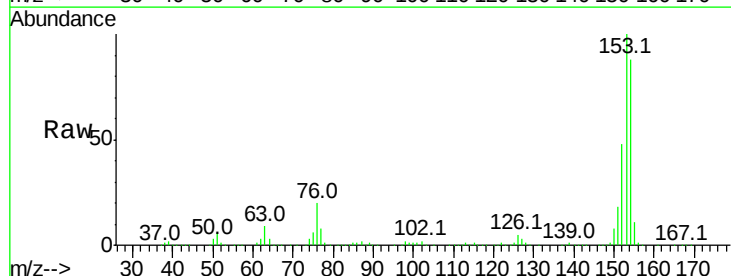
Manual Integrations
APPROVED

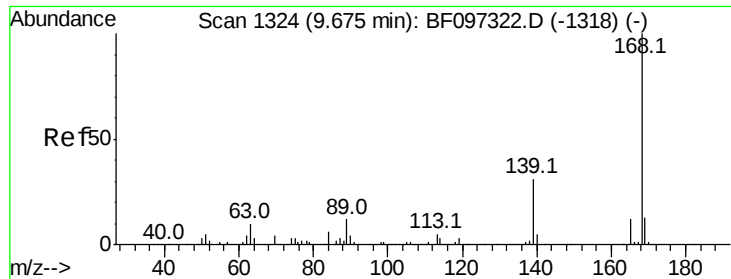
Sohil
8/4/2017 5:30:59 PM



#51
Acenaphthene
Concen: 44.458 ng
RT: 9.50 min Scan# 1295
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	365287		
153	113.2	90.5	135.7	
152	54.7	43.6	65.4	





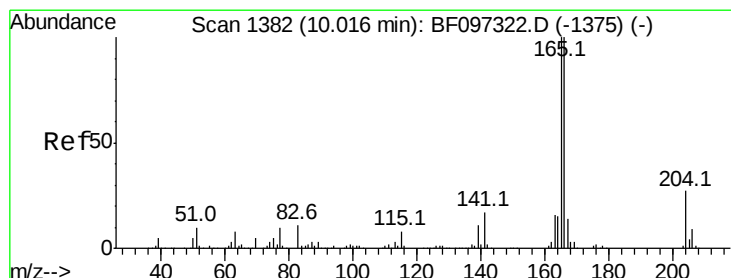
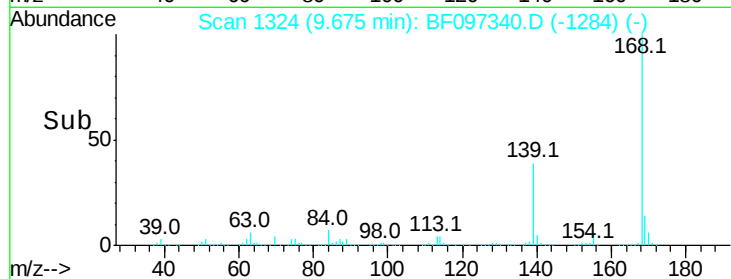
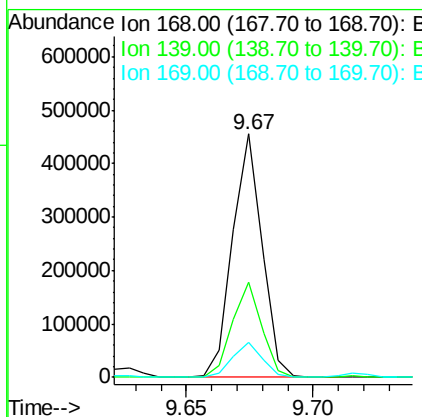
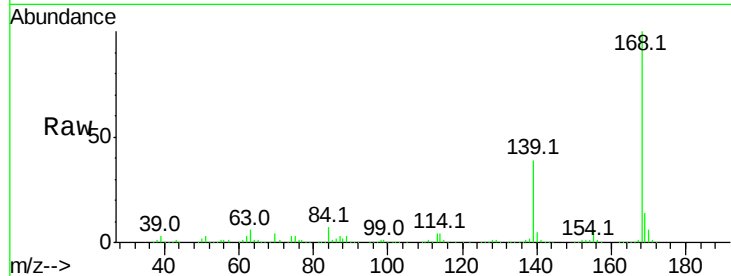
#54
Dibenzofuran
Concen: 33.597 ng
RT: 9.67 min Scan# 1324
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampleId :
TP-2-SS1

Tot Ion	Ratio	Resp	Lower	Upper
168	100	367694		
139	39.0		30.6	45.8
169	14.1		10.8	16.2

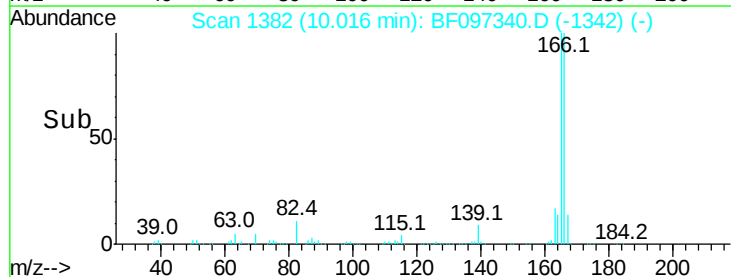
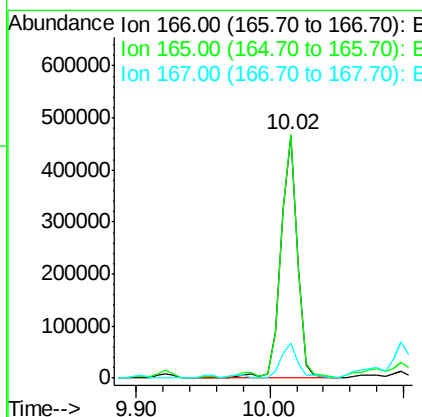
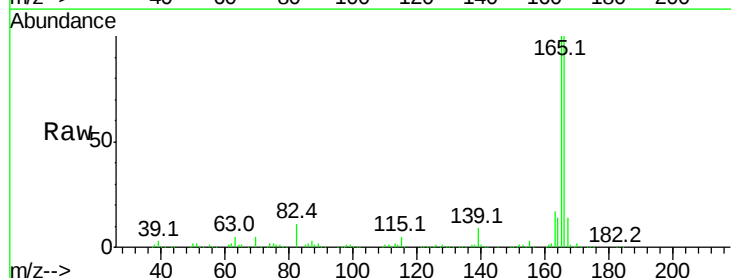
Manual Integrations
APPROVED

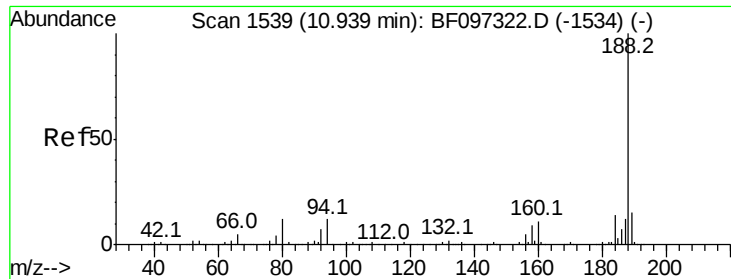
Sohil
8/4/2017 5:30:59 PM



#57
Fluorene
Concen: 49.837 ng
RT: 10.02 min Scan# 1382
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	409937		
165	100.4		78.8	118.2
167	14.4		10.6	16.0





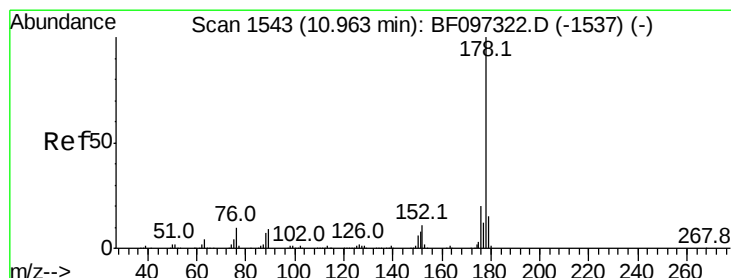
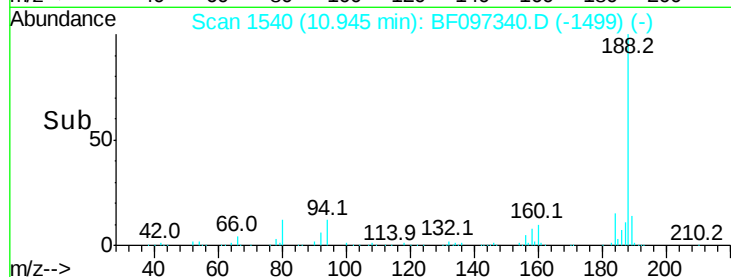
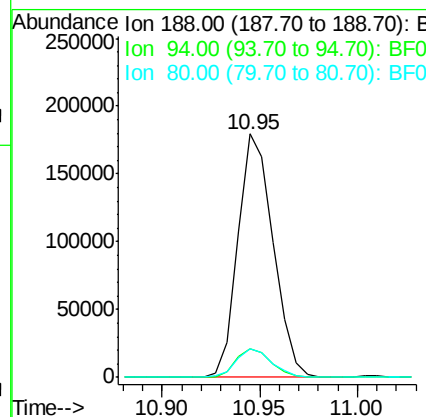
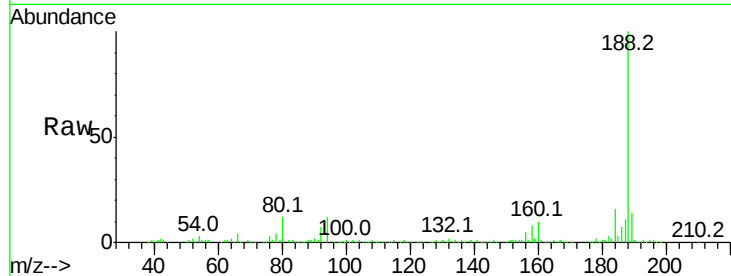
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.95 min Scan# 1540
Delta R.T. -0.06 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampleId :
TP-2-SS1

Tot Ion	Ratio	Resp	Lower	Upper
188	100	224088		
94	11.9		9.4	14.2
80	11.6		10.2	15.2

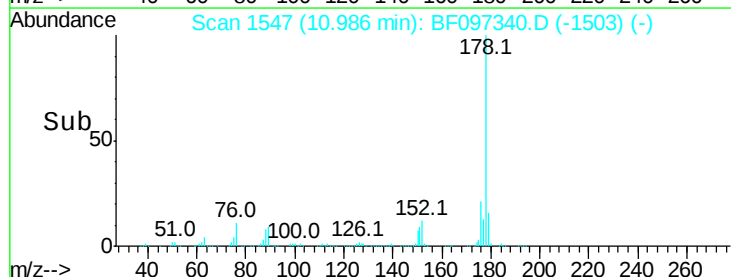
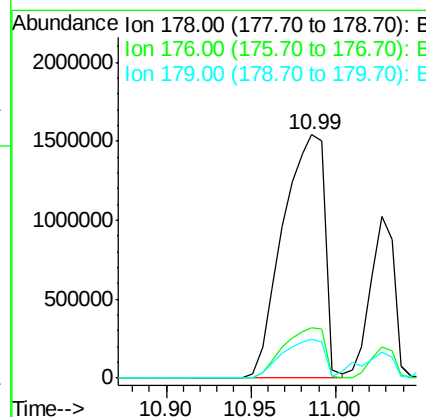
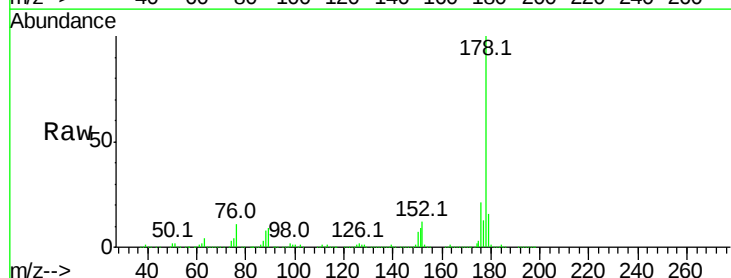
Manual Integrations
APPROVED

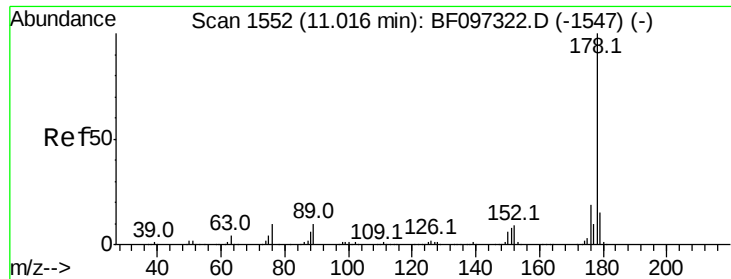
Sohil
8/4/2017 5:30:59 PM



#70
Phenanthrene
Concen: 221.334 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.04 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2657500		
176	20.6		16.2	24.4
179	16.2		12.6	19.0





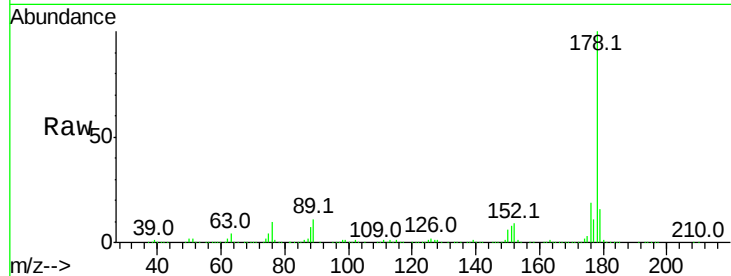
#71
 Anthracene
 Concen: 79.261 ng
 RT: 11.03 min Scan# 1554
 Delta R.T. -0.05 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Instrument :
 BNA_F
 ClientSampled :
 TP-2-SS1

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.8	12.7	19.1

Manual Integrations
 APPROVED

Sohil
 8/4/2017 5:30:59 PM

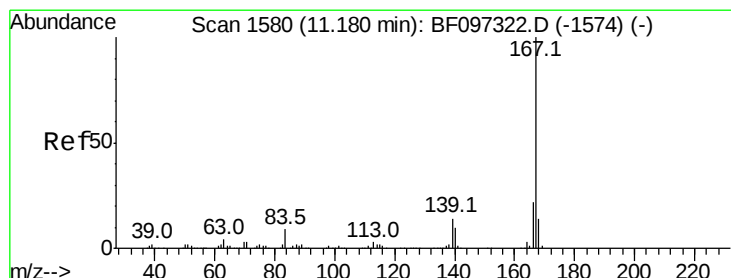
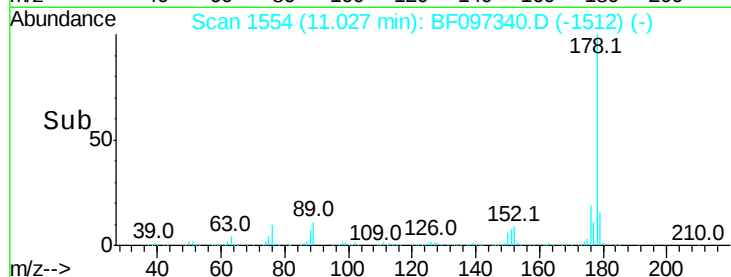
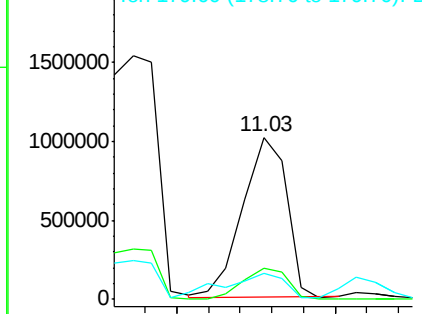


Abundance

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



#72
 Carbazole
 Concen: 42.096 ng
 RT: 11.19 min Scan# 1581
 Delta R.T. -0.05 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

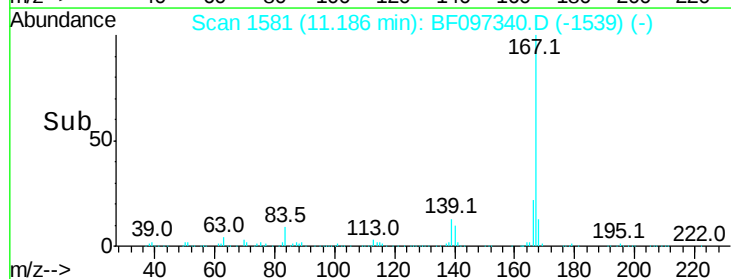
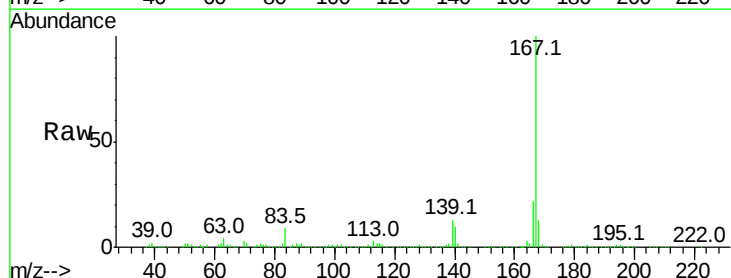
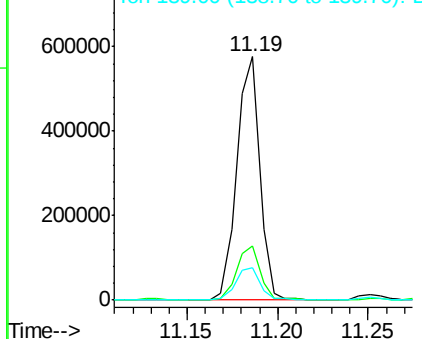
Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.1	27.1
139	13.1	11.7	17.5

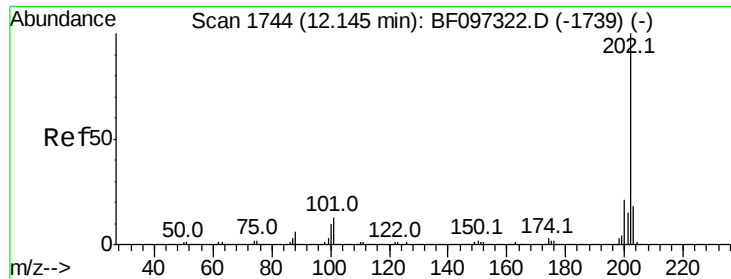
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





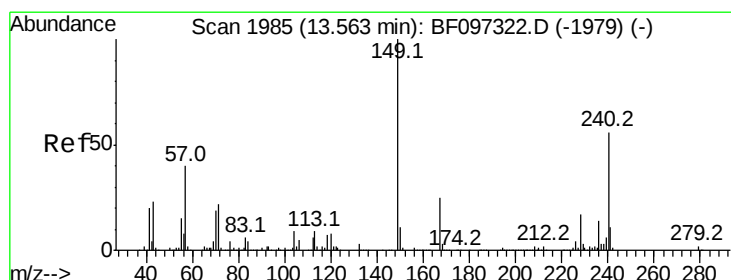
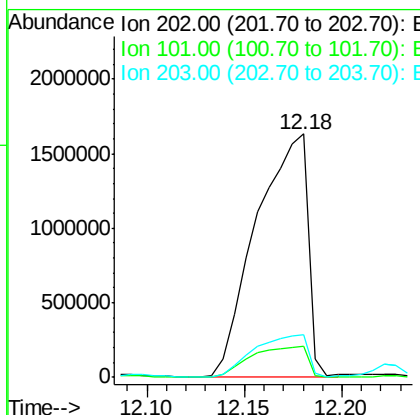
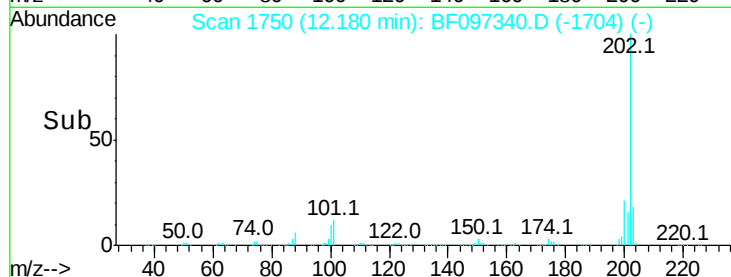
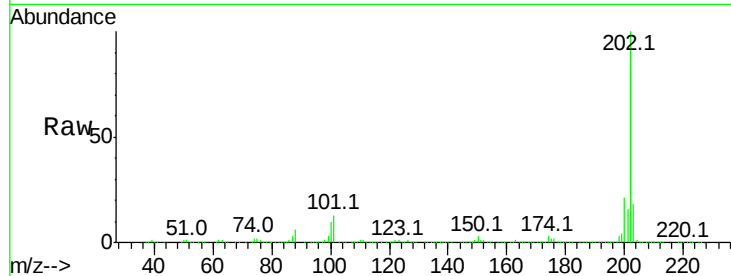
#74
 Fluoranthene
 Concen: 254.145 ng
 RT: 12.18 min Scan# 1750
 Delta R.T. -0.03 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-SS1

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	17.7	0.0	38.1

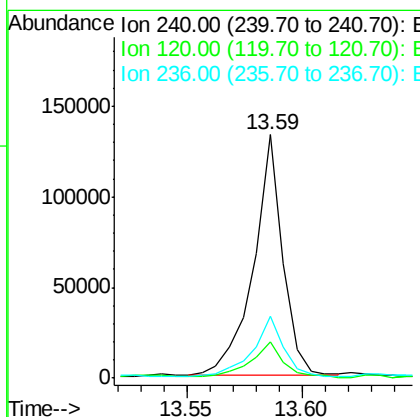
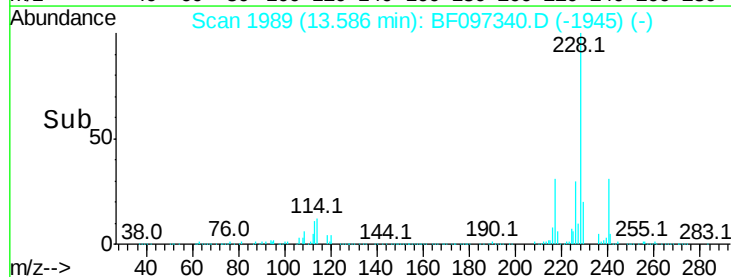
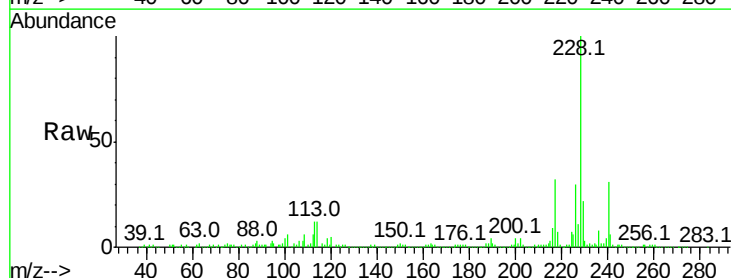
Manual Integrations
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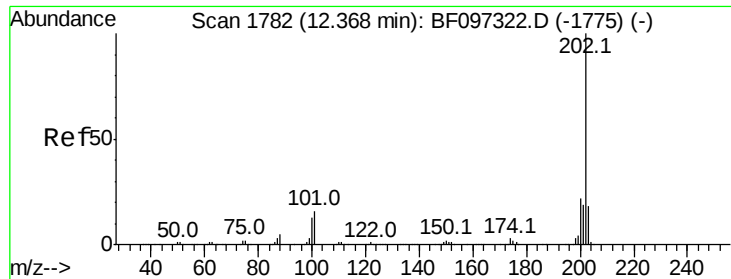
Sohil
 8/4/2017 5:30:59 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.59 min Scan# 1989
 Delta R.T. -0.04 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.9	5.8	8.8#
236	25.5	20.5	30.7





#77

Pvrene

Concen: 260.482 ng

RT: 12.40 min Scan# 1788

Delta R.T. -0.03 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Instrument :

BNA_F

ClientSampleId :

TP-2-SS1

Tot Ion:202 Resp: 2499482

Ion Ratio Lower Upper

202 100

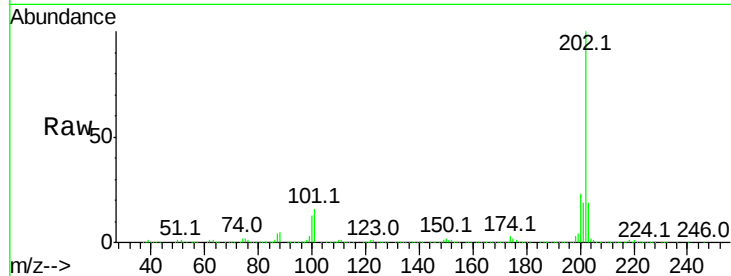
200 22.6 17.6 26.4

203 19.2 14.4 21.6

Manual Integrations
APPROVED

Sohil

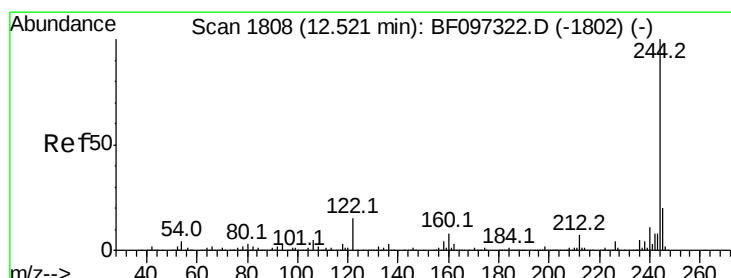
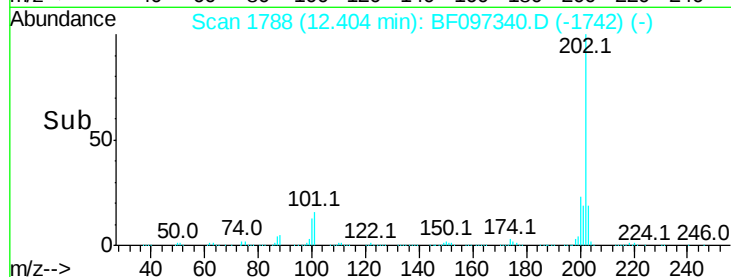
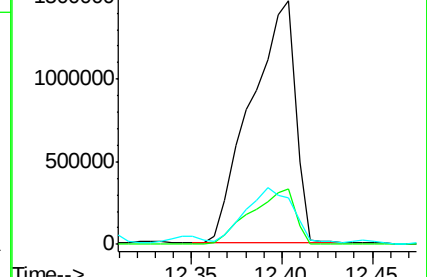
8/4/2017 5:30:59 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 80.443 ng

RT: 12.53 min Scan# 1809

Delta R.T. -0.06 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

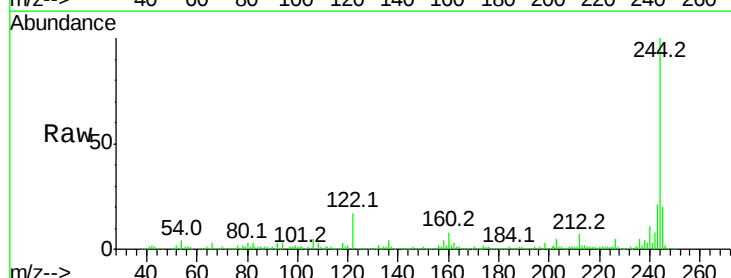
Tgt Ion:244 Resp: 462455

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

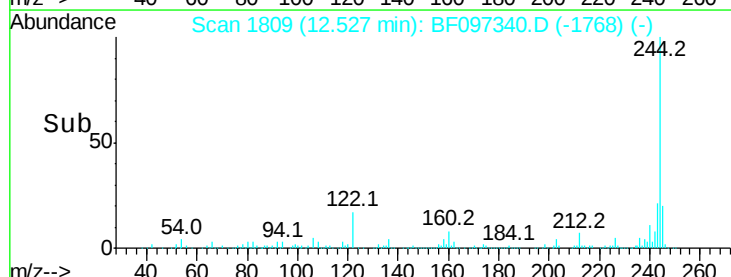
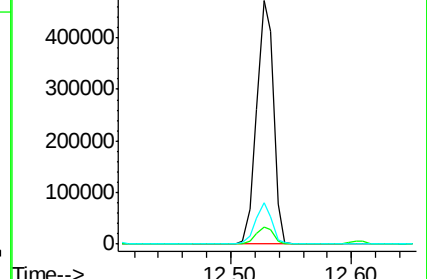
122 16.7 10.3 15.5#

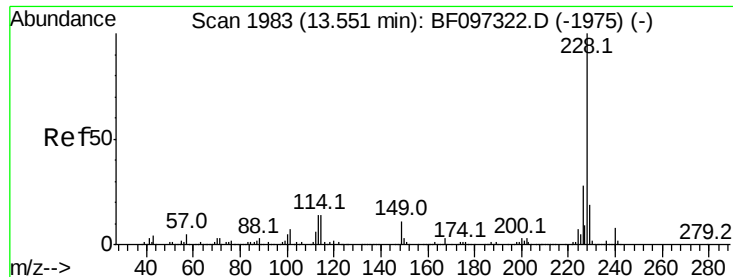


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





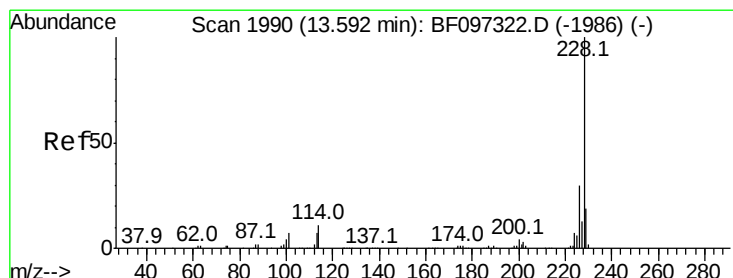
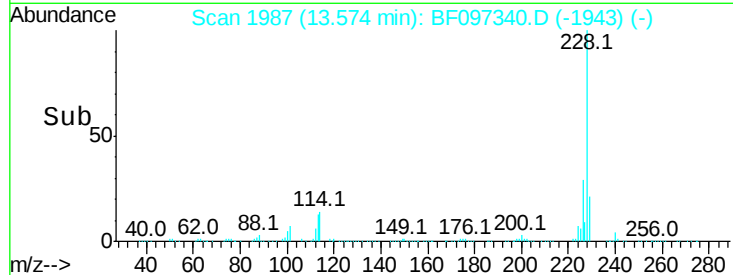
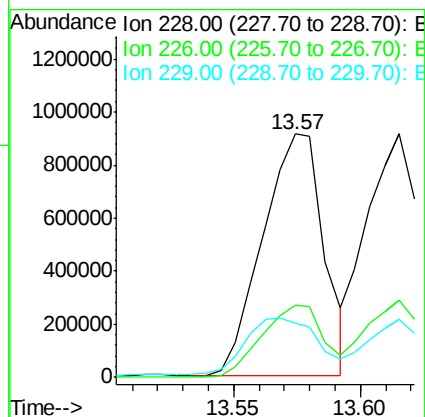
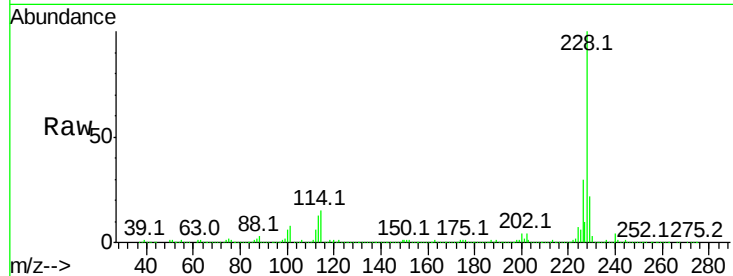
#80
Benzo(a)anthracene
Concen: 202.019 ng
RT: 13.57 min Scan# 1987
Delta R.T. -0.04 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampleId :
TP-2-SS1

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	22.1	16.3	24.5

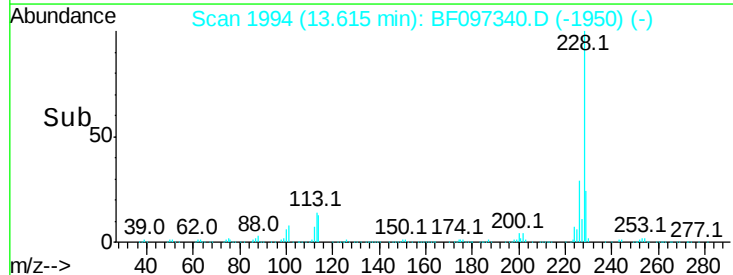
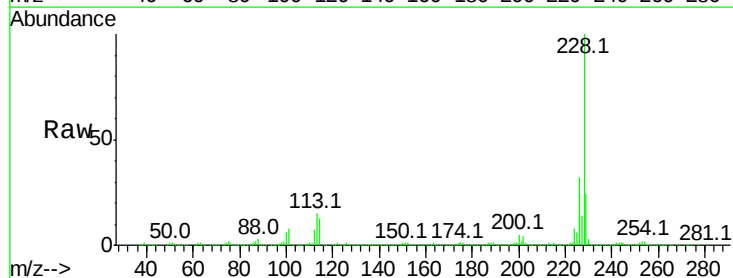
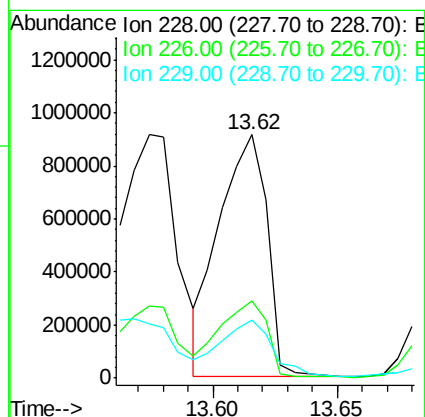
Manual Integrations
APPROVED

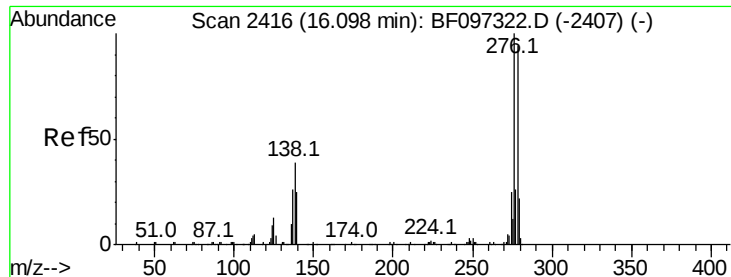
Sohil
8/4/2017 5:30:59 PM



#82
Chrysene
Concen: 165.887 ng m
RT: 13.62 min Scan# 1994
Delta R.T. -0.04 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.9	37.3
229	23.8	15.8	23.6





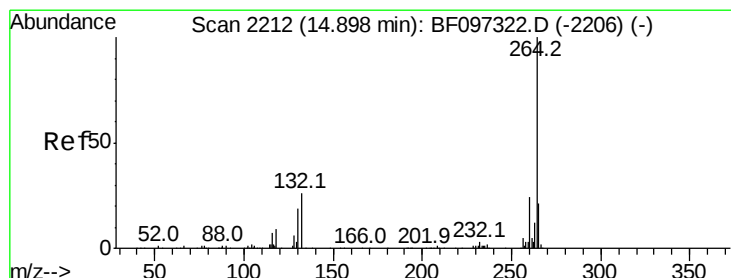
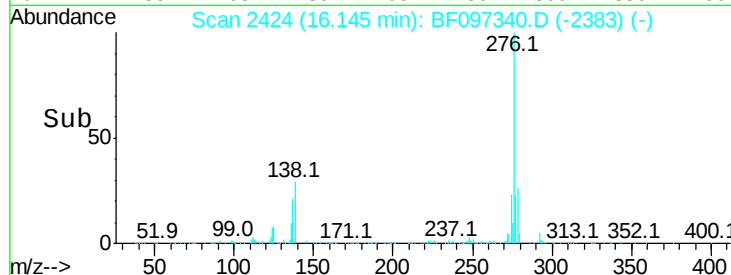
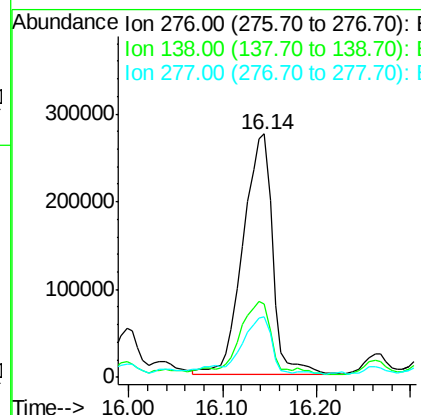
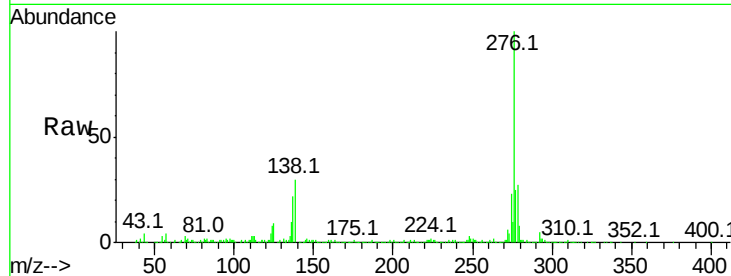
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 93.289 ng
 RT: 16.14 min Scan# 2424
 Delta R.T. -0.06 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-SS1

Tot Ion:	276	Resp:	592388
Ion Ratio	Lower	Upper	
276	100		
138	29.3	27.8	41.6
277	21.8	20.2	30.4

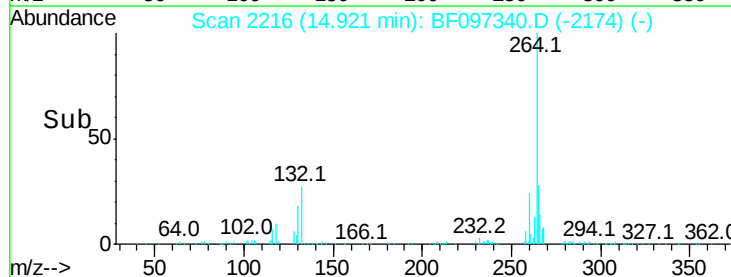
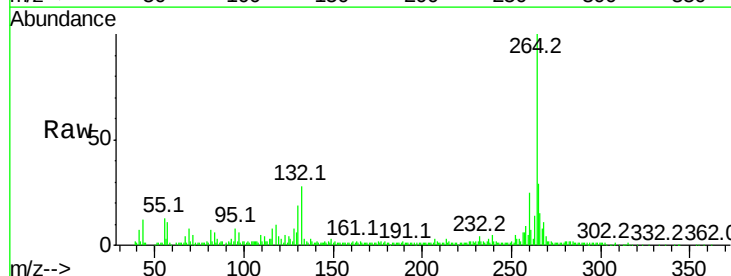
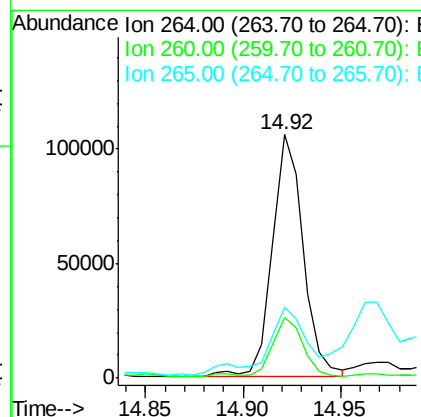
Manual Integrations
 APPROVED

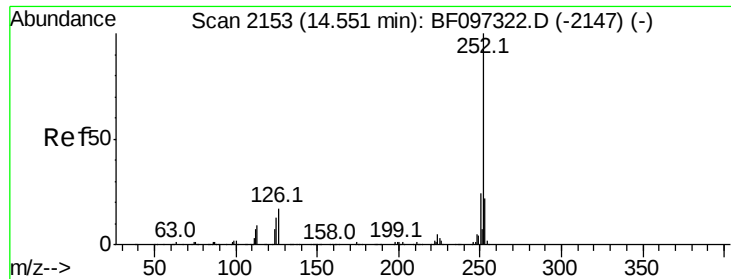
Sohil
 8/4/2017 5:30:59 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 14.92 min Scan# 2216
 Delta R.T. -0.05 min
 Lab File: BF097340.D
 Acq: 4 Aug 2017 2:12

Tgt Ion:	264	Resp:	116418
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.5	29.3
265	29.2	17.2	25.8#





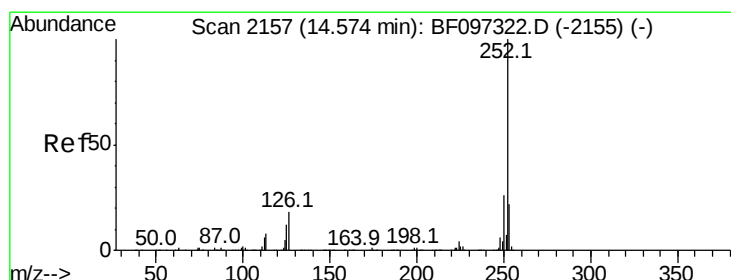
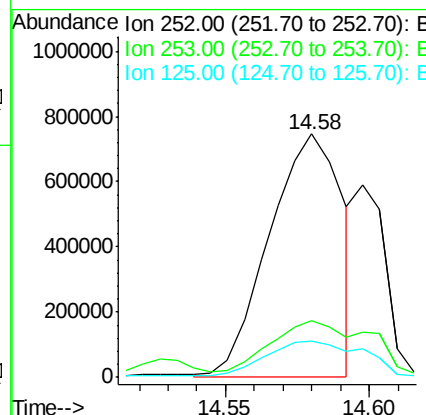
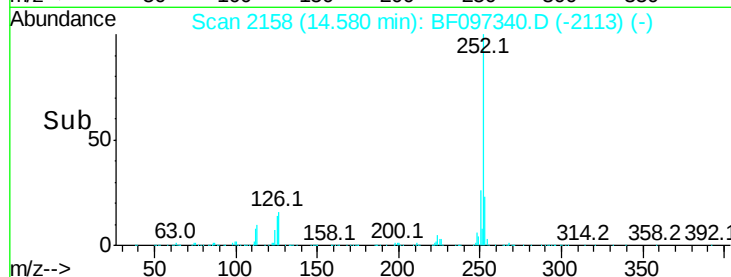
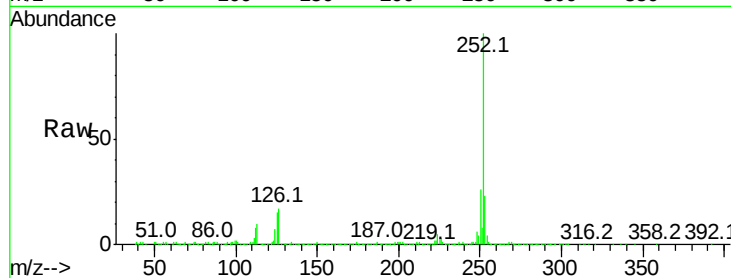
#87
Benzo(b)fluoranthene
Concen: 187.241 ng m
RT: 14.58 min Scan# 2158
Delta R.T. -0.04 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampleId :
TP-2-SS1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	14.9	9.8	14.8

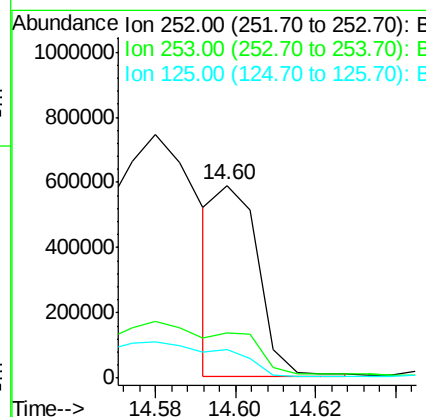
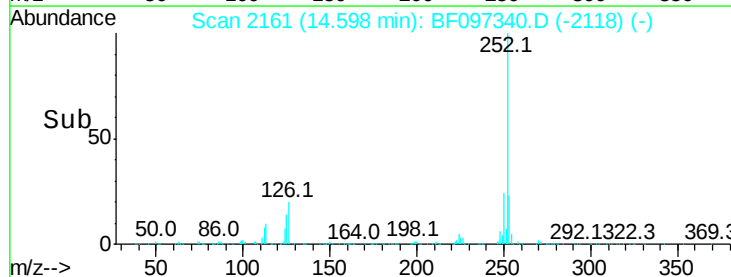
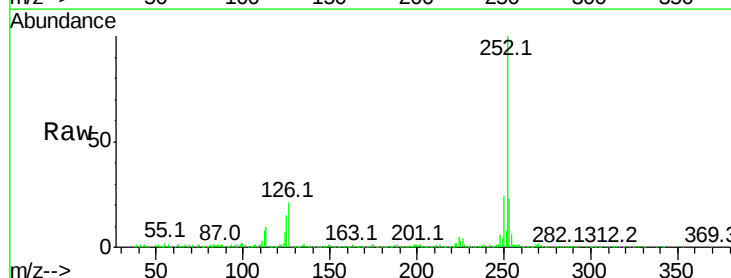
Manual Integrations
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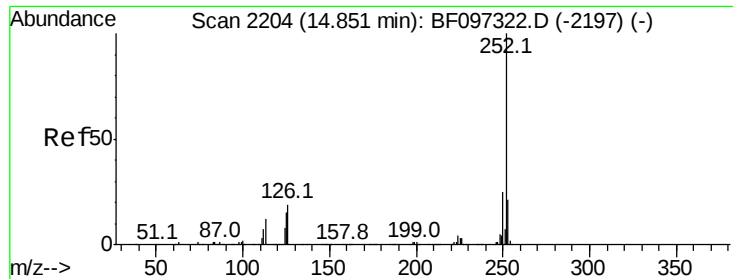
Sohil
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#88
Benzo(k)fluoranthene
Concen: 63.562 ng m
RT: 14.60 min Scan# 2161
Delta R.T. -0.05 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	14.8	13.1	19.7





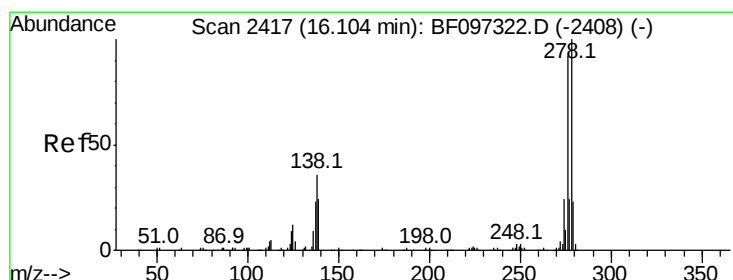
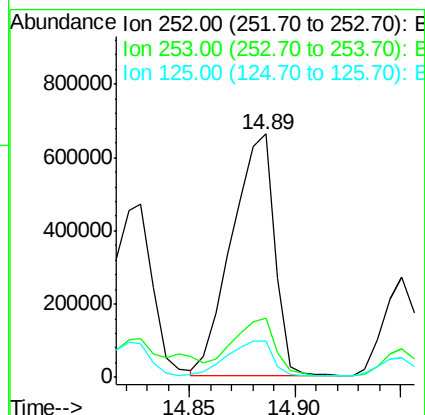
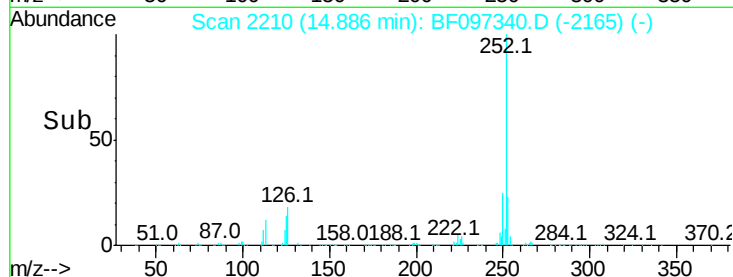
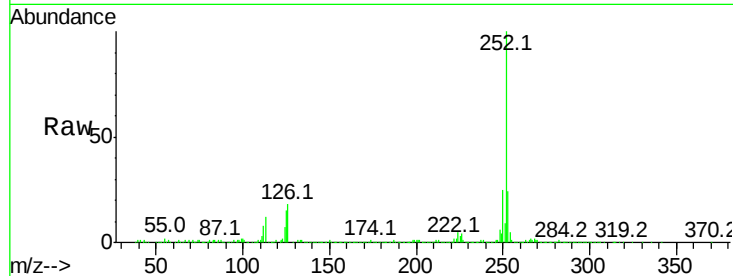
#89
Benzo(a)pyrene
Concen: 145.343 ng
RT: 14.89 min Scan# 2210
Delta R.T. -0.04 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Instrument :
BNA_F
ClientSampled :
TP-2-SS1

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	14.7	11.0	16.4

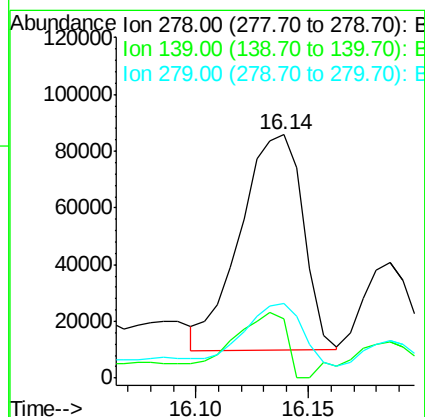
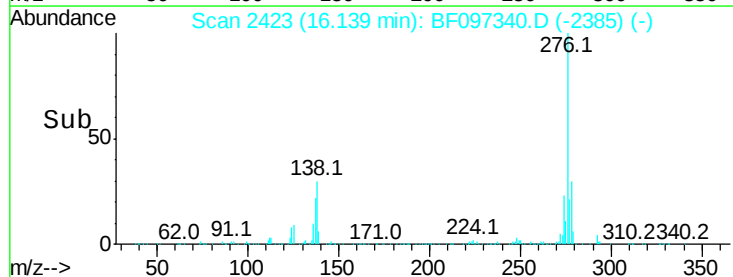
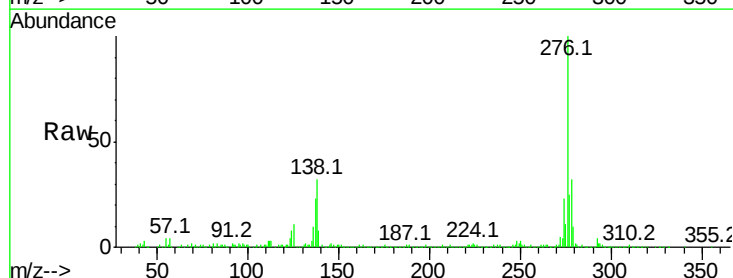
Manual Integrations
APPROVED

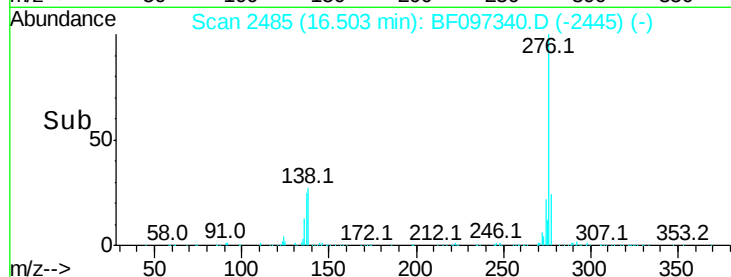
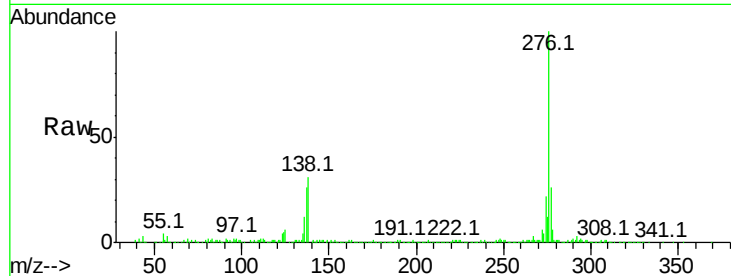
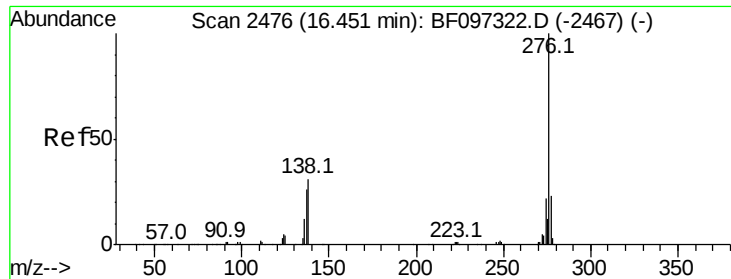
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#90
Dibenzo(a,h)anthracene
Concen: 27.992 ng m
RT: 16.14 min Scan# 2423
Delta R.T. -0.08 min
Lab File: BF097340.D
Acq: 4 Aug 2017 2:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.2	16.6	24.8
279	30.9	19.3	28.9#





#91

Benzo(a,h,i)perylene

Concen: 90.352 ng

RT: 16.50 min Scan# 2485

Delta R.T. -0.06 min

Lab File: BF097340.D

Acq: 4 Aug 2017 2:12

Tot Ion:	276	Resp:	497655
Ion Ratio	Lower	Upper	
276	100		
277	25.6	18.6	28.0
138	31.3	25.4	38.0

Instrument :

BNA_F

ClientSampleId :

TP-2-SS1

Manual Integrations
APPROVED

Sohil
8/4/2017 5:30:59 PM

