

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097250.D
 Acq On : 2 Aug 2017 3:19
 Operator : SJ/JU
 Sample : I4456-12DL 5X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8DL

Manual Integrations
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 8/2/2017 7:15:32 PM

Quant Time: Aug 02 06:47:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	92690	20.00	ng	-0.04
21) Naphthalene-d8	7.75	136	376843	20.00	ng	-0.04
38) Acenaphthene-d10	9.49	164	128974	20.00	ng	-0.04
63) Phenanthrene-d10	10.96	188	190314	20.00	ng	-0.04
75) Chrysene-d12	13.59	240	194907	20.00	ng	-0.04
86) Perylene-d12	14.94	264	167568	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	138055	22.45	ng	-0.03
7) Phenol-d6	6.13	99	150387	21.42	ng	-0.04
23) Nitrobenzene-d5	7.03	82	80163	12.48	ng	-0.05
41) 2,4,6-Tribromophenol	10.28	330	18475	18.13	ng	-0.04
44) 2-Fluorobiphenyl	8.82	172	117505	15.46	ng	-0.05
78) Terphenyl-d14	12.55	244	79843	8.35	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	7.77	128	387166	21.795	ng	99
37) 2-Methylnaphthalene	8.46	142	58908	5.238	ng	98
49) Dimethylphthalate	9.22	163	27347	2.792	ng	99
51) Acenaphthene	9.52	154	78188	10.668	ng	96
54) Dibenzofuran	9.70	168	76779	7.865	ng	99
57) Fluorene	10.03	166	81345	11.086	ng	97
59) Diethylphthalate	9.92	149	35541	3.955	ng	96
70) Phenanthrene	10.99	178	622341	61.031	ng	99
71) Anthracene	11.04	178	175154	16.771	ng	98
72) Carbazole	11.20	167	106400	10.359	ng	99
74) Fluoranthene	12.17	202	707250	70.798	ng	99
77) Pyrene	12.40	202	623256	39.060	ng	98
80) Benzo(a)anthracene	13.58	228	390426	30.958	ng	99
82) Chrysene	13.62	228	329198	26.733	ng	97
85) Indeno(1,2,3-cd)pyrene	16.14	276	127052	12.032	ng	95
87) Benzo(b)fluoranthene	14.59	252	402456m	39.954	ng	
88) Benzo(k)fluoranthene	14.60	252	132360m	13.790	ng	
89) Benzo(a)pyrene	14.89	252	269158	29.196	ng	97
90) Dibenzo(a,h)anthracene	16.15	278	33571	4.441	ng	# 86
91) Benzo(a,h,i)perylene	16.50	276	109244	13.780	ng	99

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

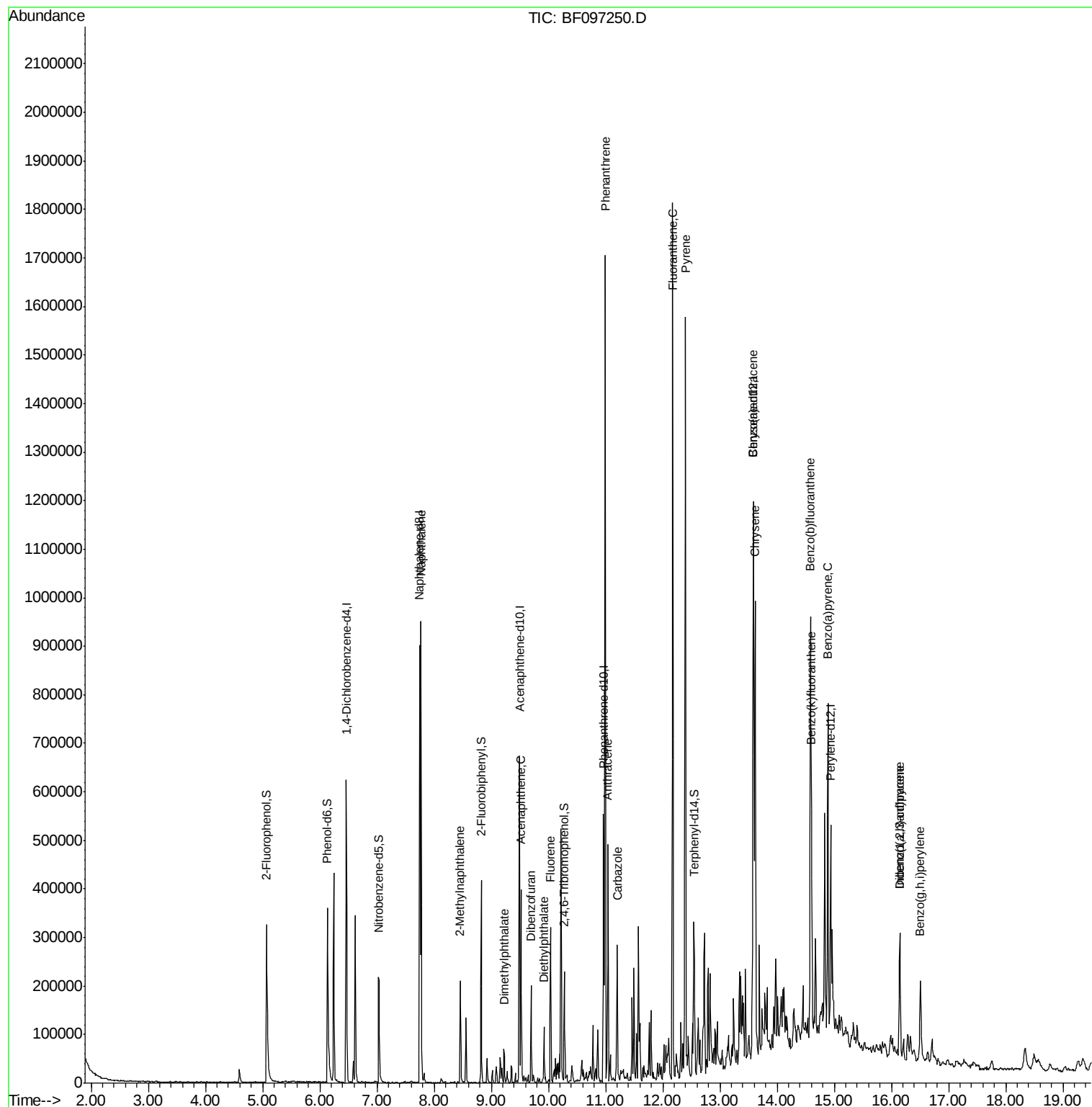
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
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ALS Vial : 26 Sample Multiplier: 1

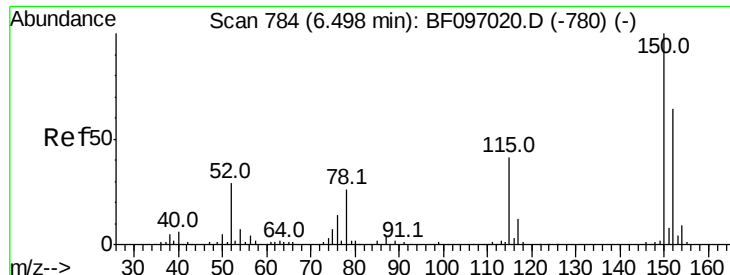
Instrument :
BNA_F
ClientSampleID :
TP-17-SS-8DL

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#1

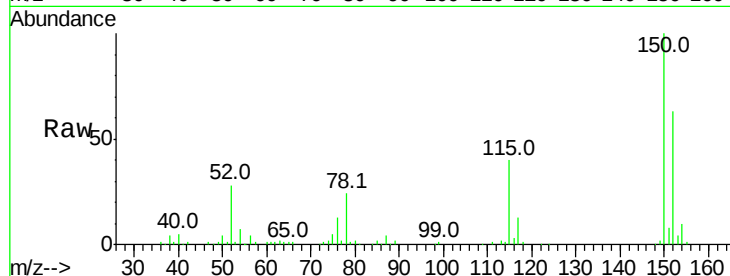
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.46 min Scan# 778
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	126.2	189.2
115	63.2	52.2	78.2

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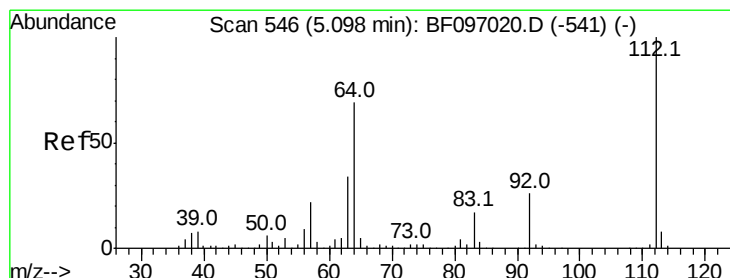
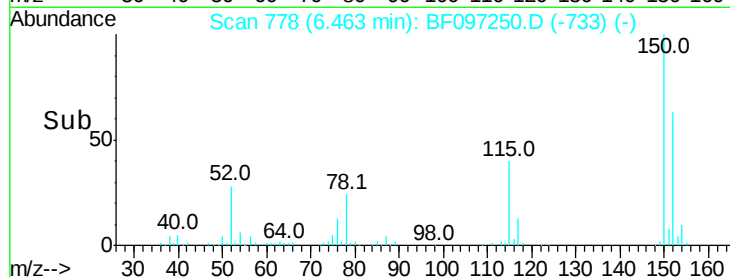
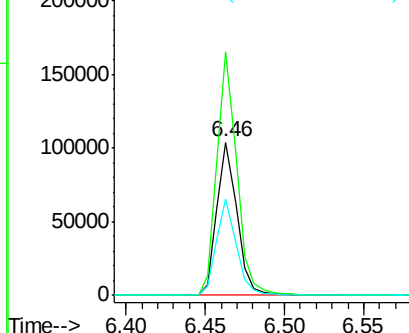


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

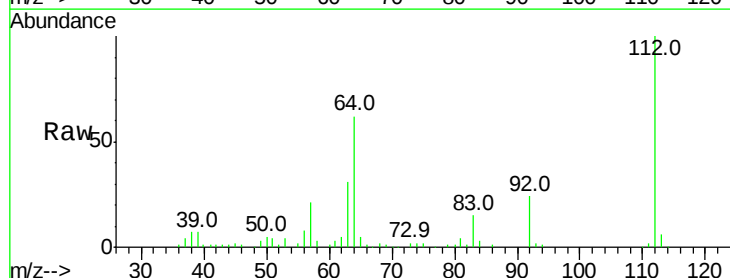
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 22.453 ng
RT: 5.07 min Scan# 541
Delta R.T. -0.03 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.7	46.0	69.0
63	31.5	23.4	35.0

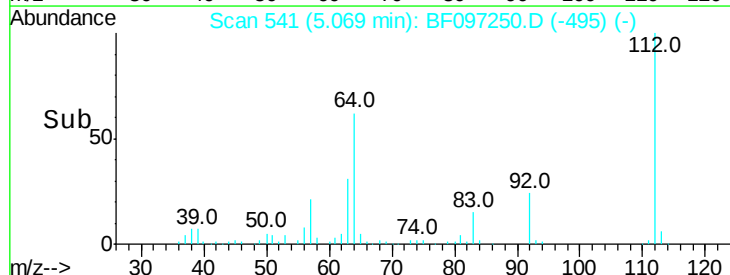
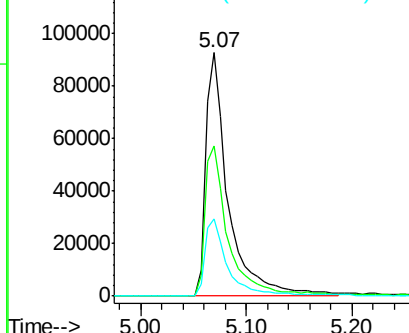


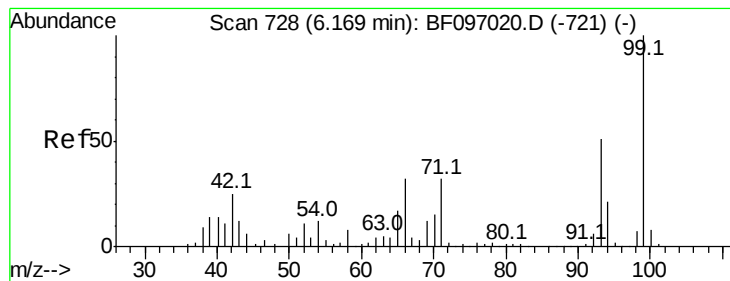
Abundance

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: 21.424 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Instrument :

BNA_F

ClientSampleId :

TP-17-SS-8DL

Tot Ion: 99 Resp: 150387

Ion Ratio Lower Upper

99 100

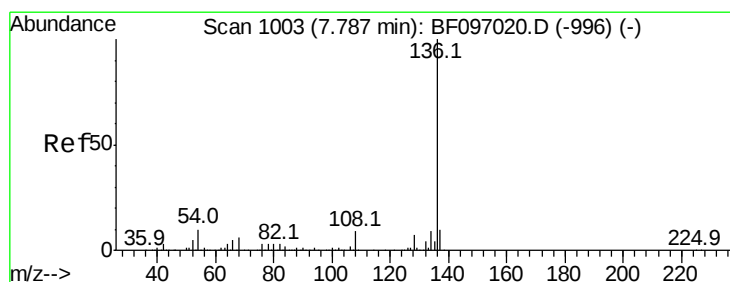
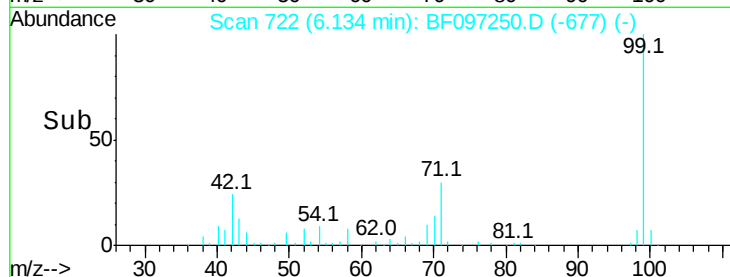
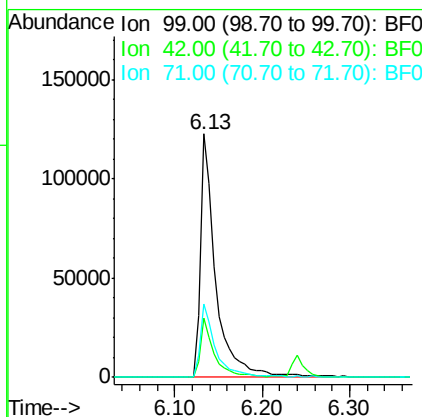
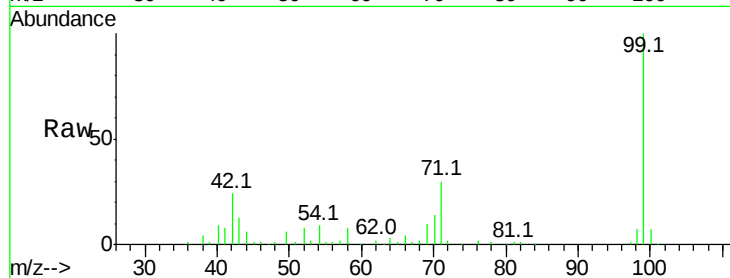
42 24.4 13.5 20.3#

71 30.1 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.75 min Scan# 996

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Tgt Ion: 136 Resp: 376843

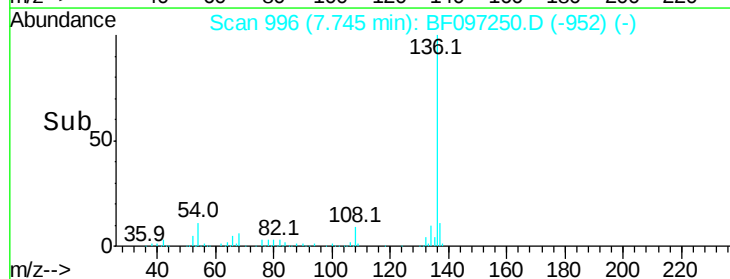
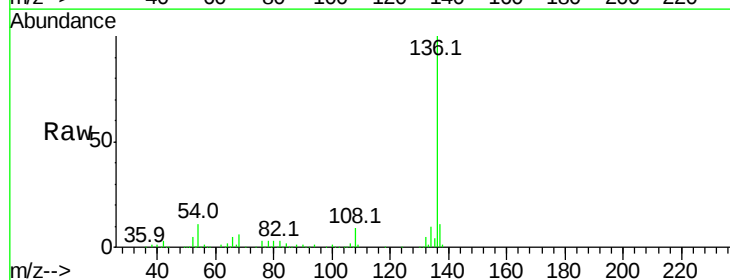
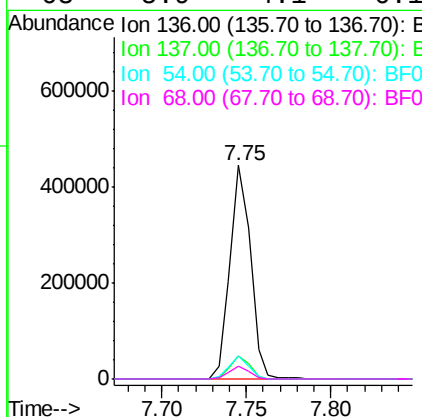
Ion Ratio Lower Upper

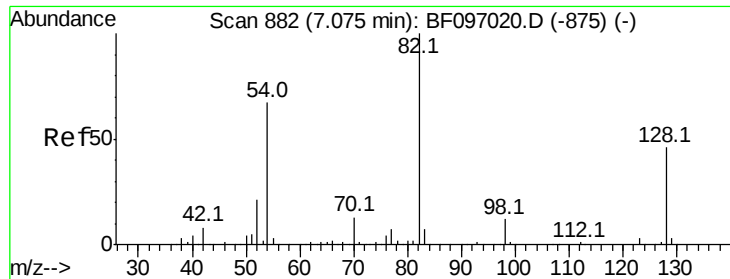
136 100

137 10.8 8.5 12.7

54 10.8 4.9 7.3#

68 5.9 4.1 6.1





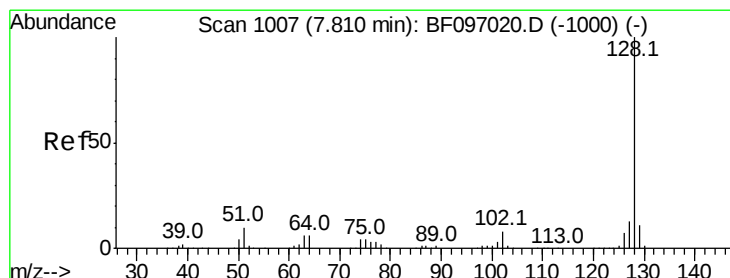
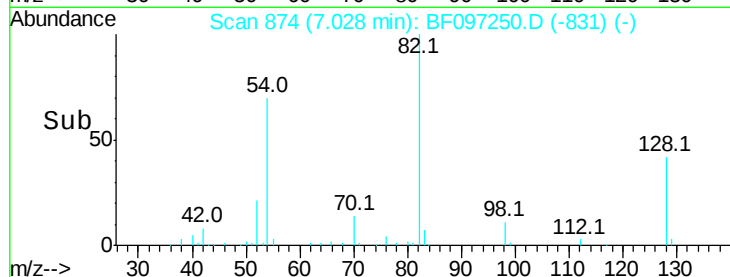
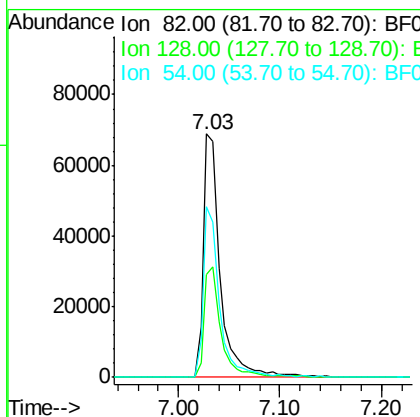
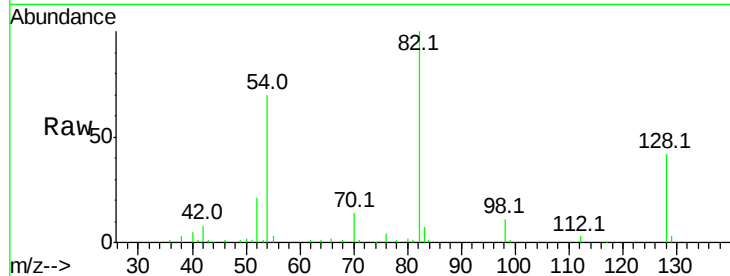
#23
 Nitrobenzene-d5
 Concen: 12.479 ng
 RT: 7.03 min Scan# 874
 Delta R.T. -0.05 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.1	34.0	51.0
54	70.0	42.2	63.2#

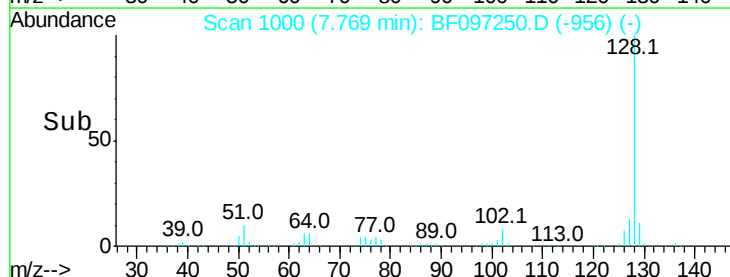
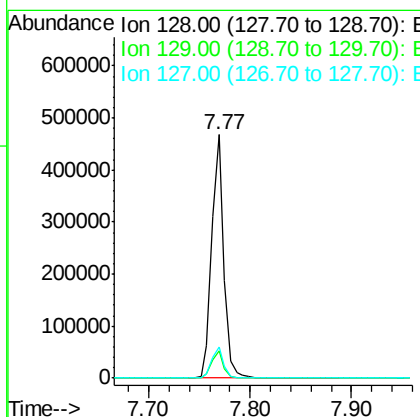
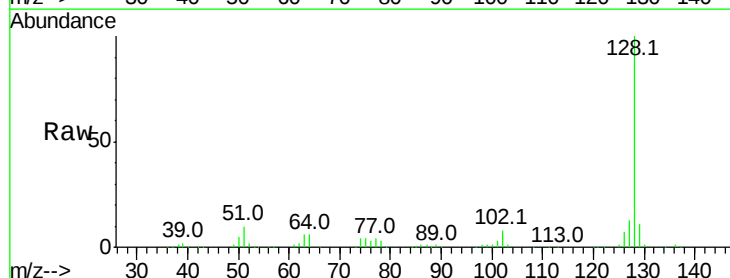
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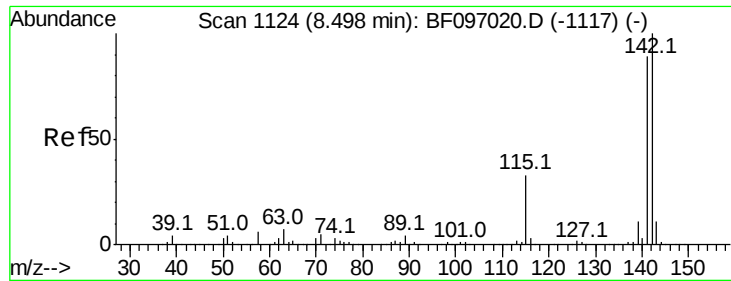
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#31
 Naphthalene
 Concen: 21.795 ng
 RT: 7.77 min Scan# 1000
 Delta R.T. -0.04 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	12.7	10.8	16.2





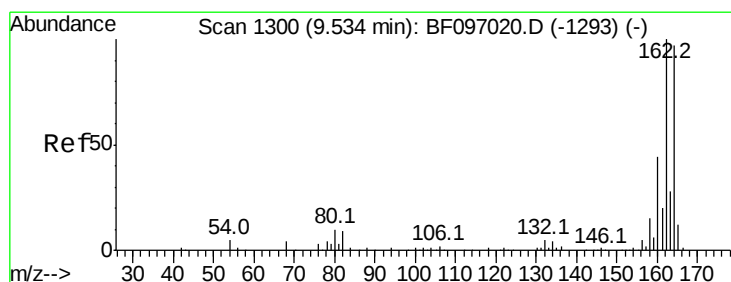
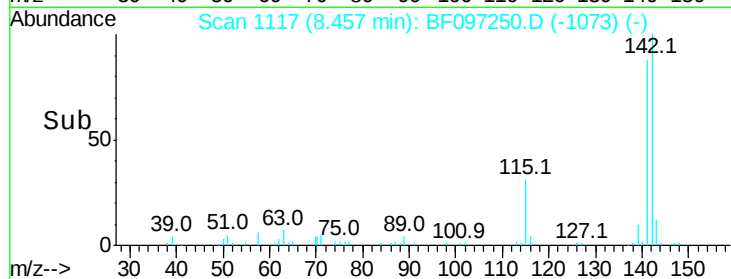
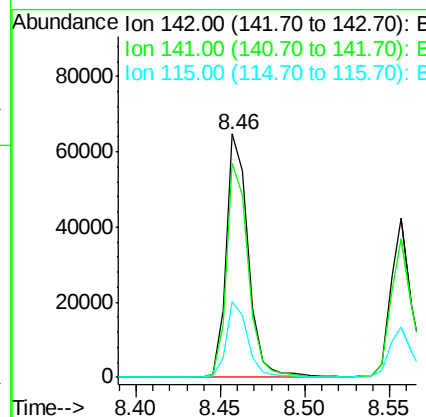
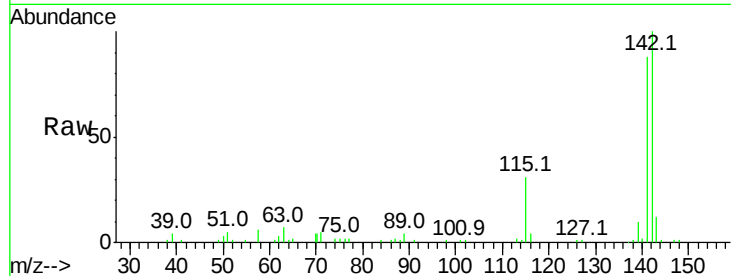
#37
2-Methylnaphthalene
Concen: 5.238 ng
RT: 8.46 min Scan# 1117
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.3	106.9
115	31.1	27.1	40.7

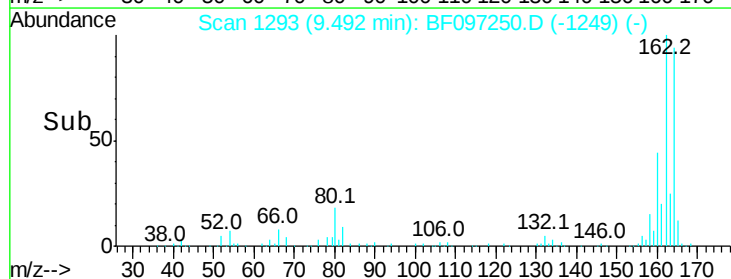
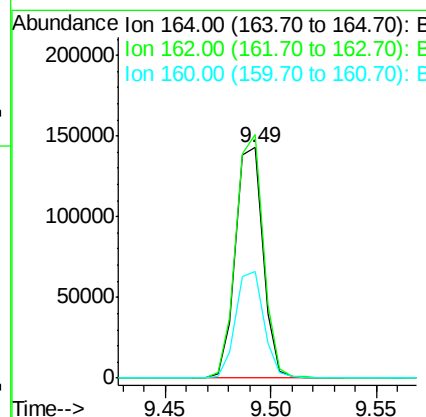
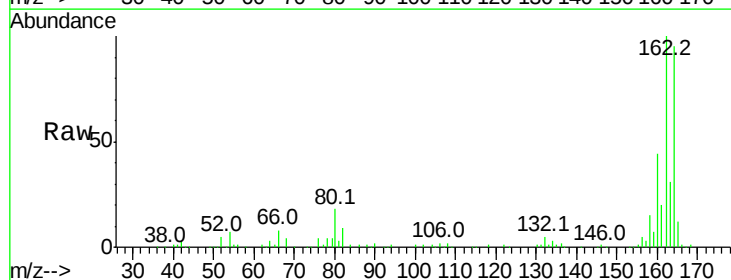
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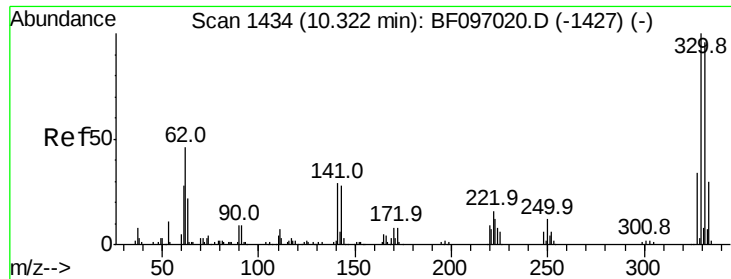
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.49 min Scan# 1293
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.6	123.8
160	46.4	36.2	54.2





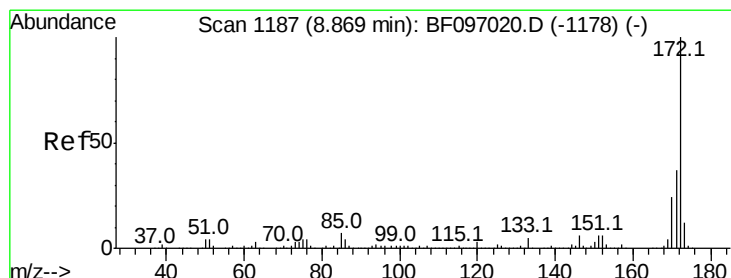
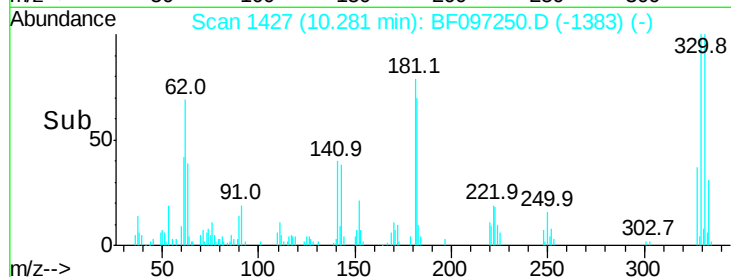
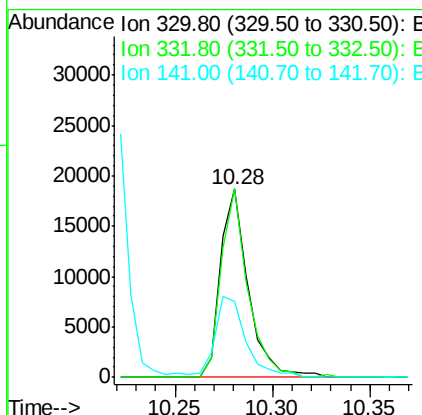
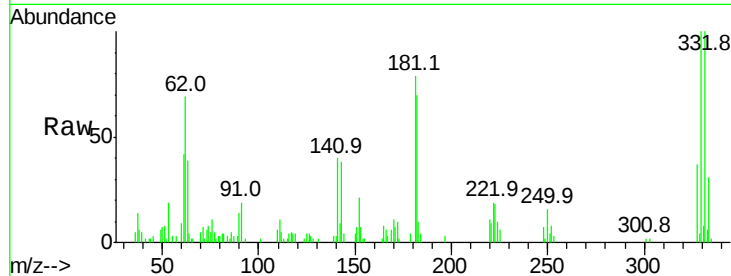
#41
 2,4,6-Tribromophenol
 Concen: 18.130 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.04 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	18475		
332	95.6	76.6	115.0	
141	47.3	31.4	47.2#	

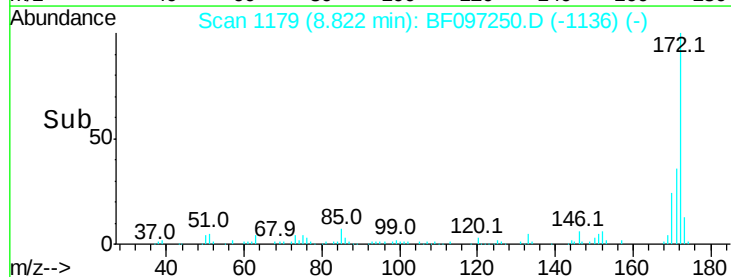
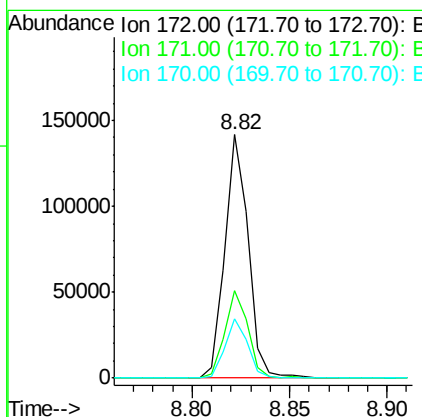
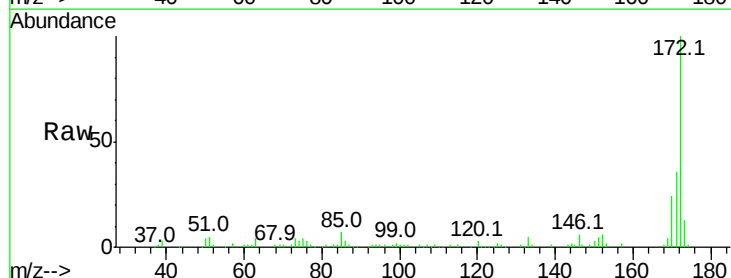
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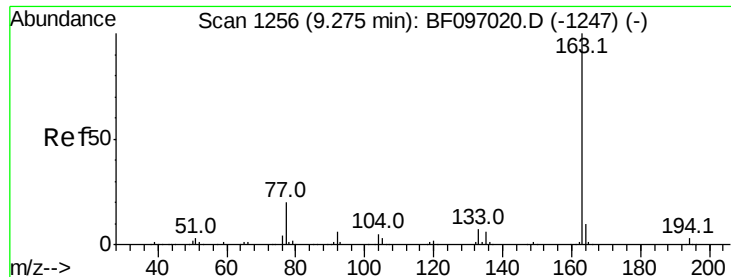
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#44
 2-Fluorobiphenyl
 Concen: 15.462 ng
 RT: 8.82 min Scan# 1179
 Delta R.T. -0.05 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	117505		
171	36.2	29.6	44.4	
170	24.3	19.8	29.8	





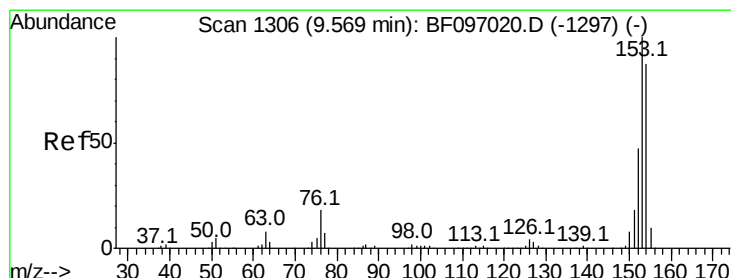
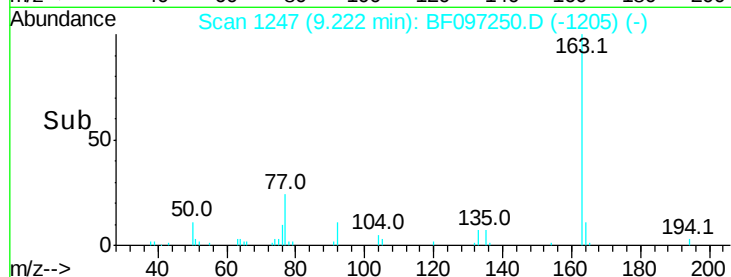
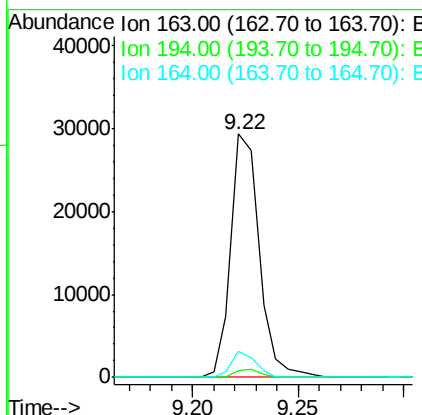
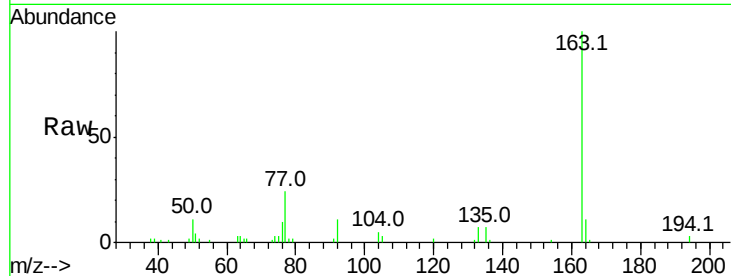
#49
Dimethylphthalate
Concen: 2.792 ng
RT: 9.22 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion:	163	Resp:	27347
Ion Ratio	Lower	Upper	
163	100		
194	3.0	2.6	4.0
164	10.8	8.4	12.6

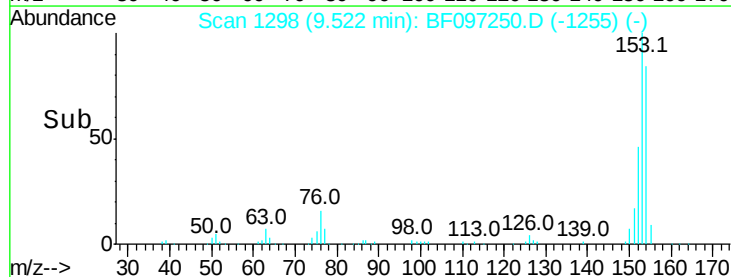
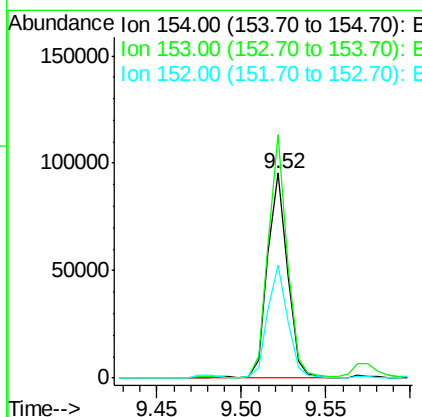
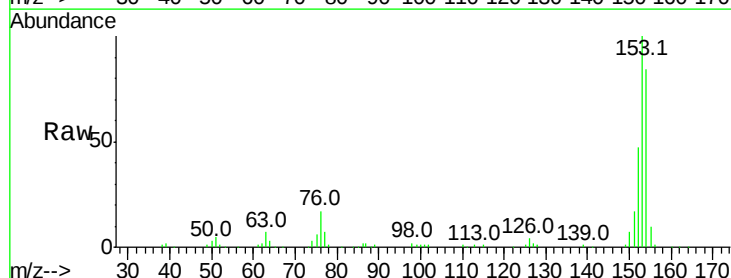
Manual Integrations
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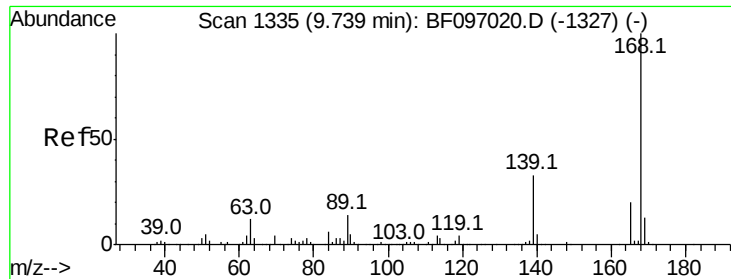
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#51
Acenaphthene
Concen: 10.668 ng
RT: 9.52 min Scan# 1298
Delta R.T. -0.05 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion:	154	Resp:	78188
Ion Ratio	Lower	Upper	
154	100		
153	118.9	90.5	135.7
152	55.4	43.6	65.4





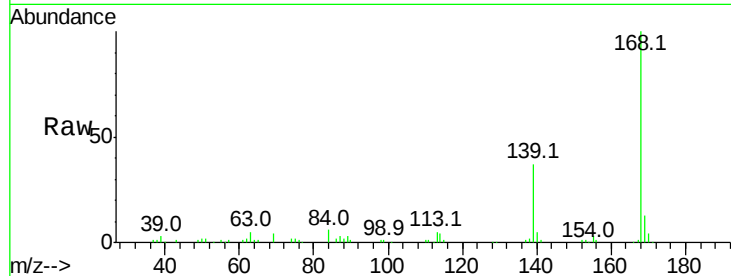
#54
Dibenzenofuran
Concen: 7.865 ng
RT: 9.70 min Scan# 1328
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.6	45.8
169	13.4	10.8	16.2

Manual Integrations
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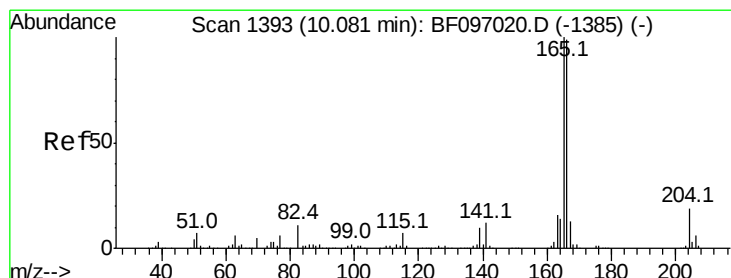
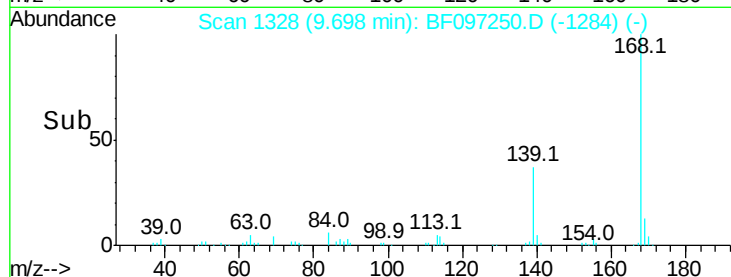
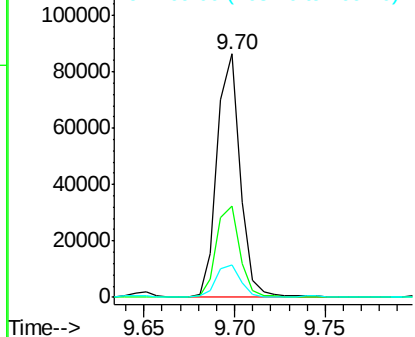


Abundance

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: 11.086 ng
RT: 10.03 min Scan# 1385
Delta R.T. -0.05 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

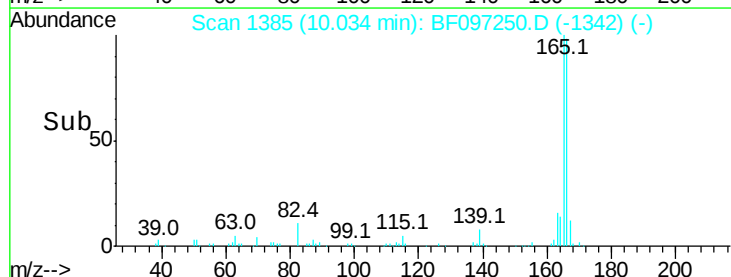
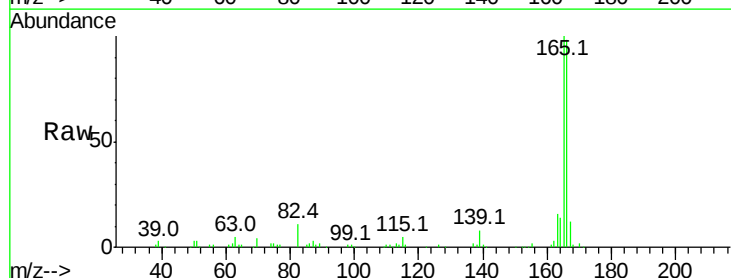
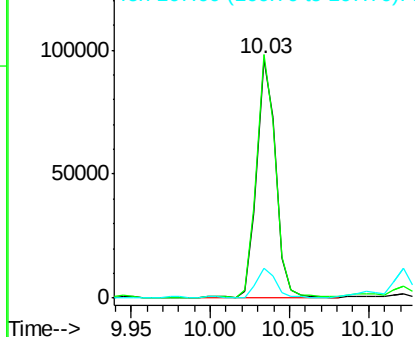
Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.1	78.8	118.2
167	12.4	10.6	16.0

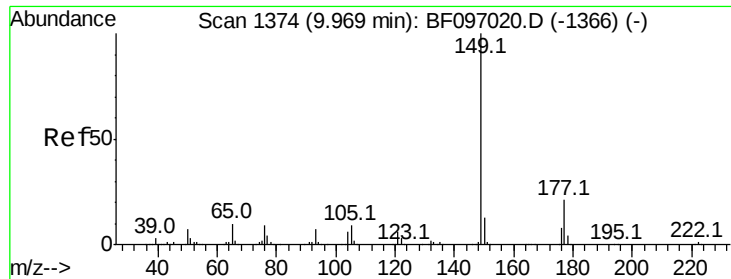
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





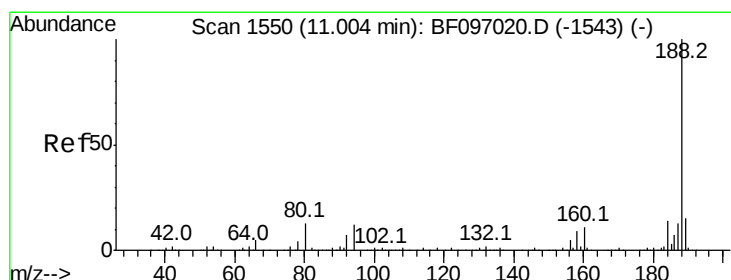
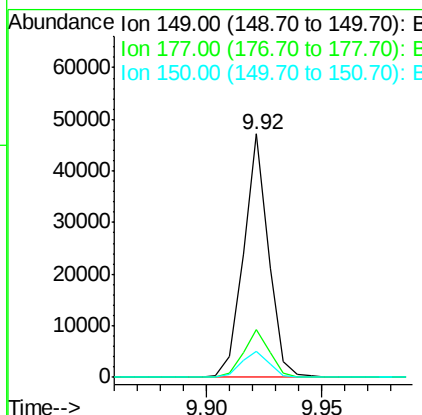
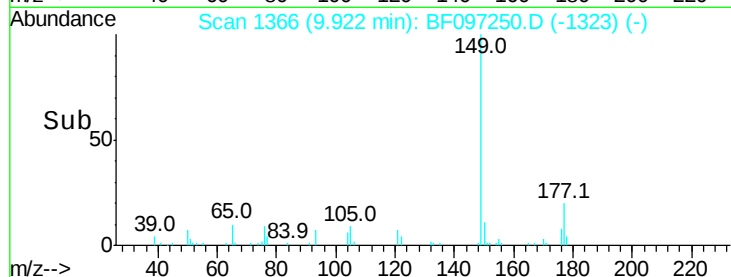
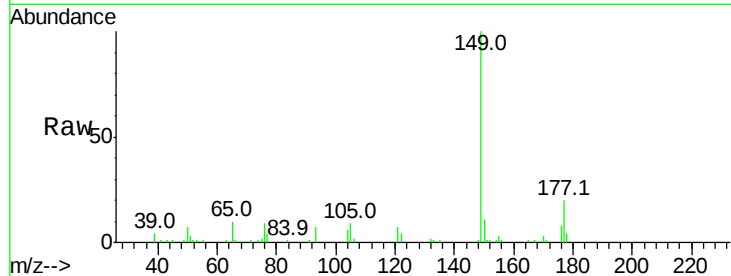
#59
Diethylphthalate
Concen: 3.955 ng
RT: 9.92 min Scan# 1366
Delta R.T. -0.05 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
149	100		
177	19.7	16.7	25.1
150	10.6	10.2	15.2

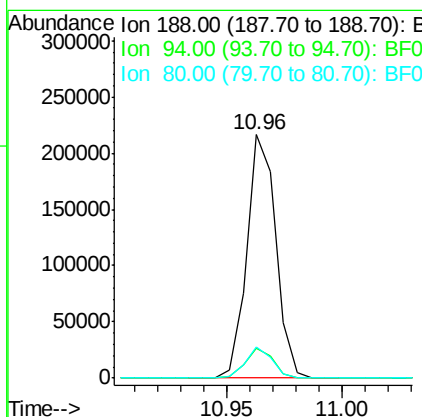
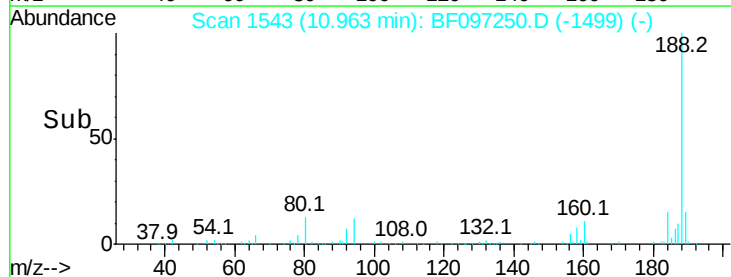
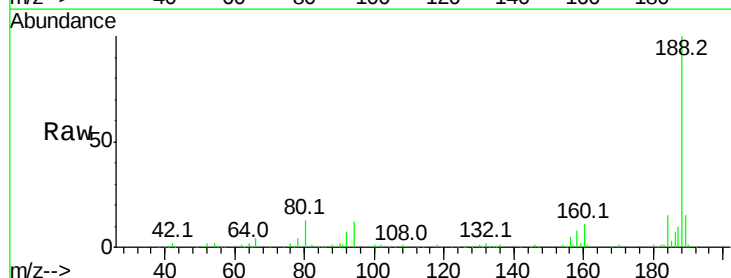
Manual Integrations
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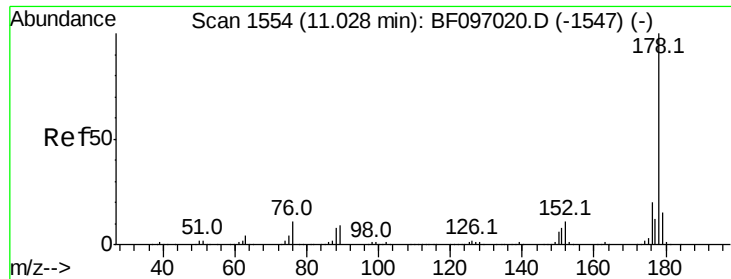
Sohil
8/2/2017 7:15:32 PM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.96 min Scan# 1543
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.2	9.4	14.2
80	12.8	10.2	15.2





#70

Phenanthrene

Concen: 61.031 ng

RT: 10.99 min Scan# 1548

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Instrument :

BNA_F

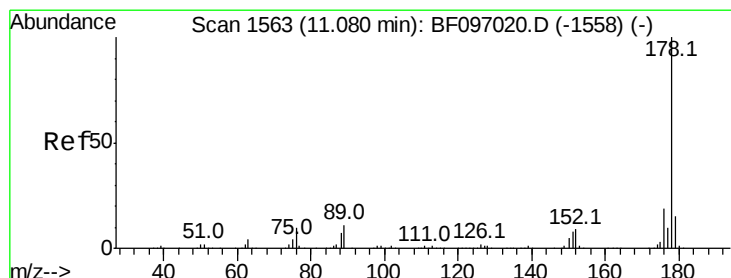
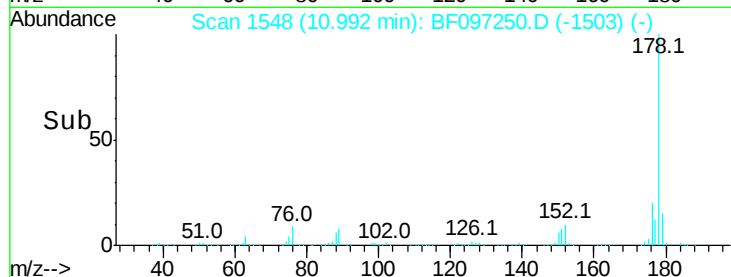
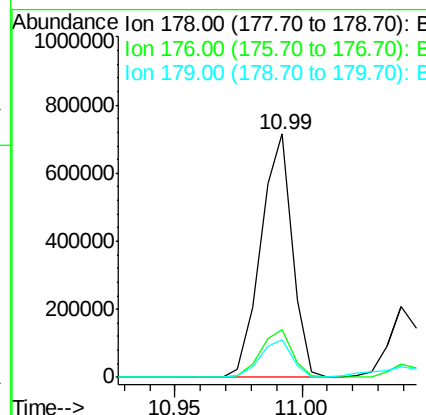
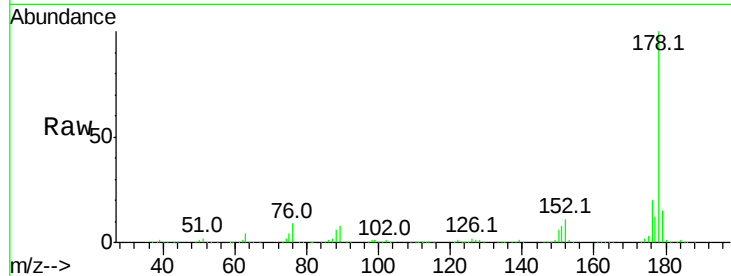
ClientSampleId :

TP-17-SS-8DL

Tot Ion:178	Resp:	622341
Ion Ratio	Lower	Upper
178	100	
176	19.6	16.2 24.4
179	15.2	12.6 19.0

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#71

Anthracene

Concen: 16.771 ng

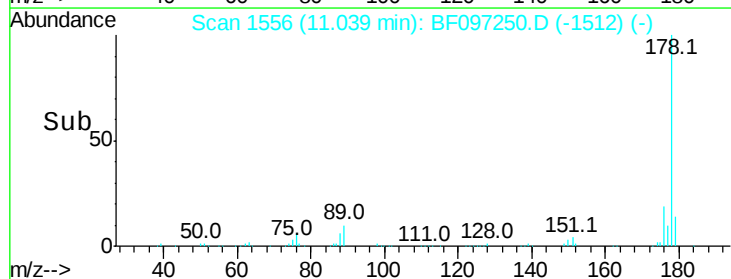
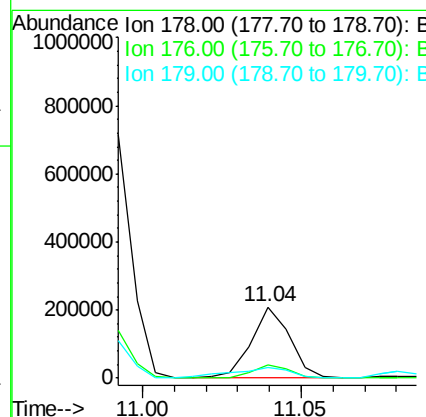
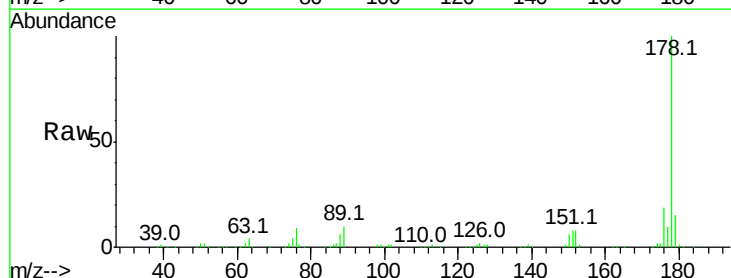
RT: 11.04 min Scan# 1556

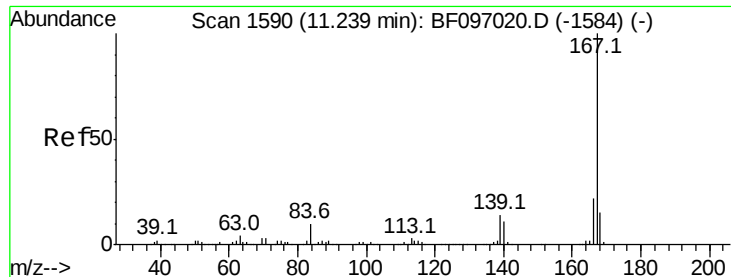
Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Tgt Ion:178	Resp:	175154
Ion Ratio	Lower	Upper
178	100	
176	19.0	15.8 23.8
179	14.6	12.7 19.1





#72

Carbazole

Concen: 10.359 ng

RT: 11.20 min Scan# 1584

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Instrument :

BNA_F

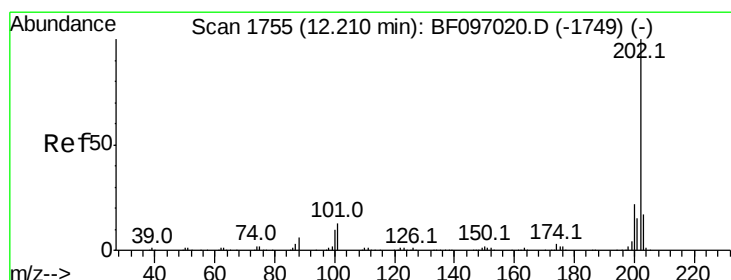
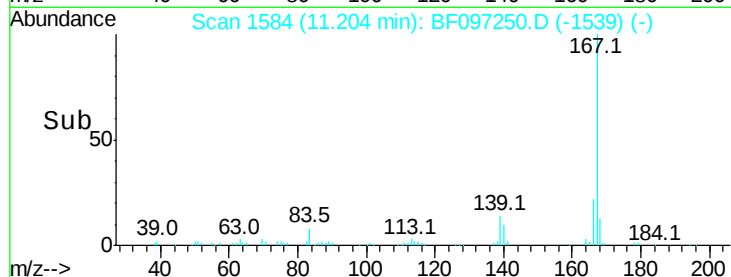
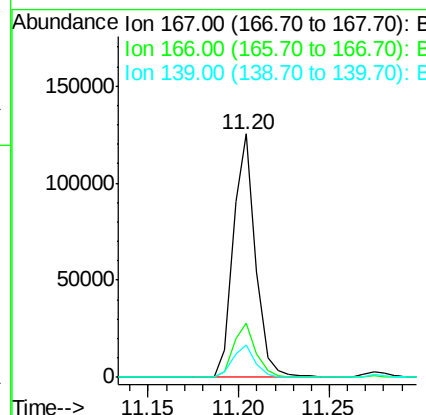
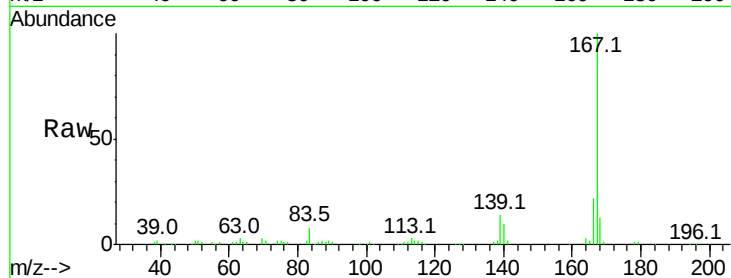
ClientSampleId :

TP-17-SS-8DL

Tot Ion:	167	Resp:	106400
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	13.6	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 70.798 ng

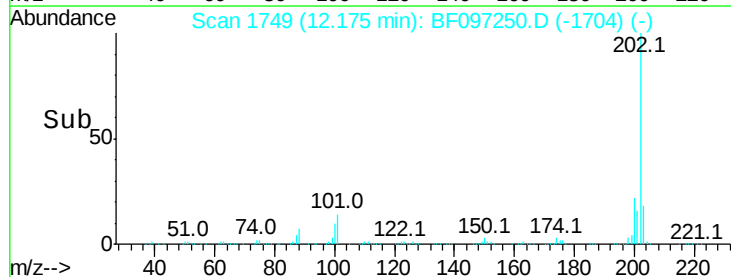
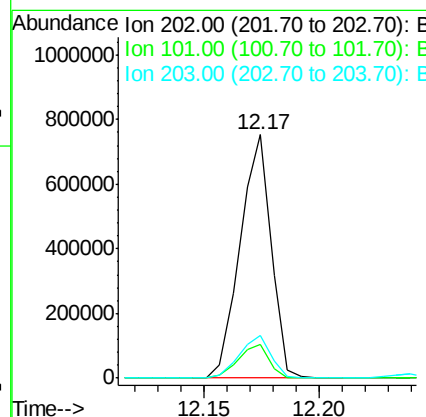
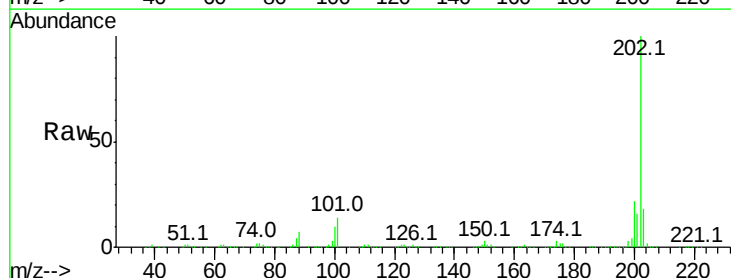
RT: 12.17 min Scan# 1749

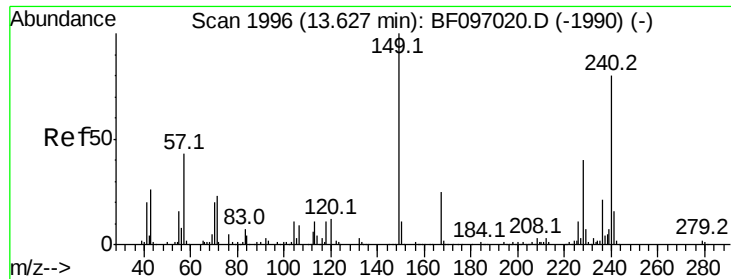
Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Tgt Ion:	202	Resp:	707250
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.59 min Scan# 1990

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Instrument :

BNA_F

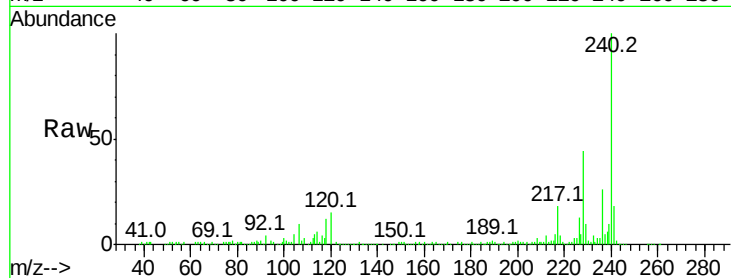
ClientSampleId :

TP-17-SS-8DL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	194907		
120	14.8	5.8	8.8#	
236	26.4	20.5	30.7	

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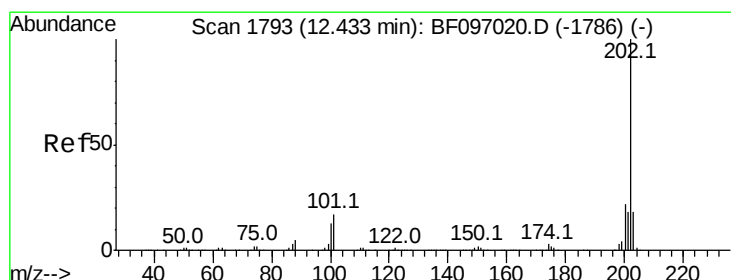
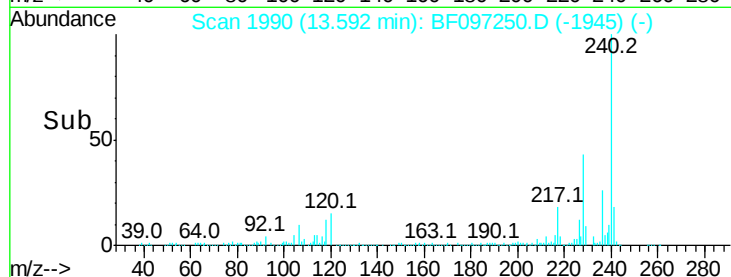
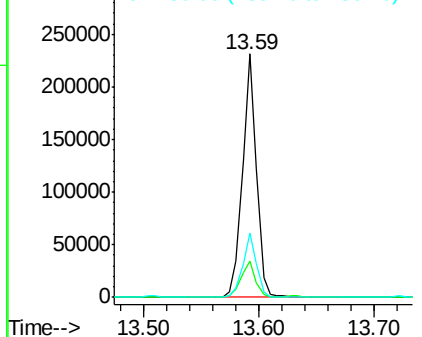
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 39.060 ng

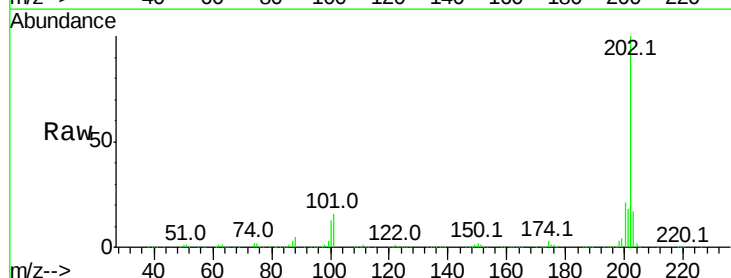
RT: 12.40 min Scan# 1787

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

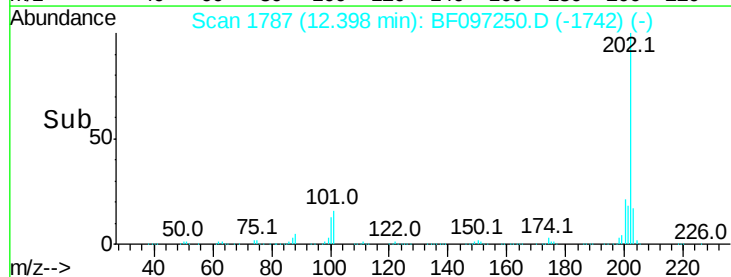
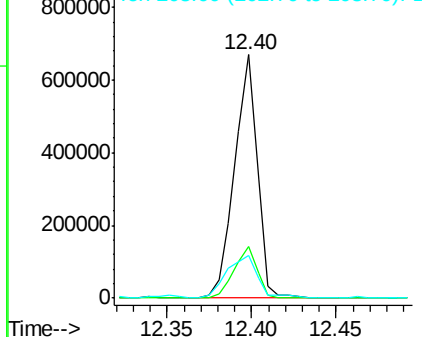
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	623256		
200	21.1	17.6	26.4	
203	17.4	14.4	21.6	

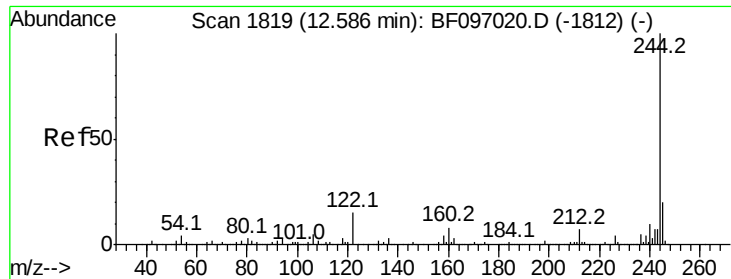


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





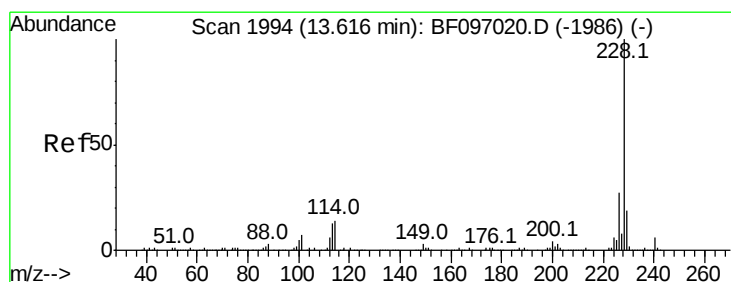
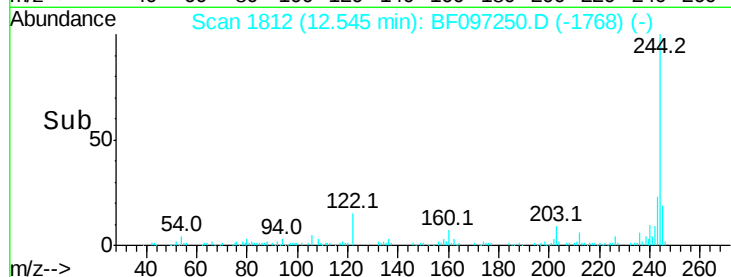
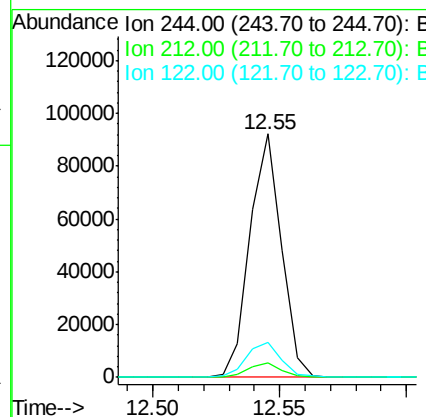
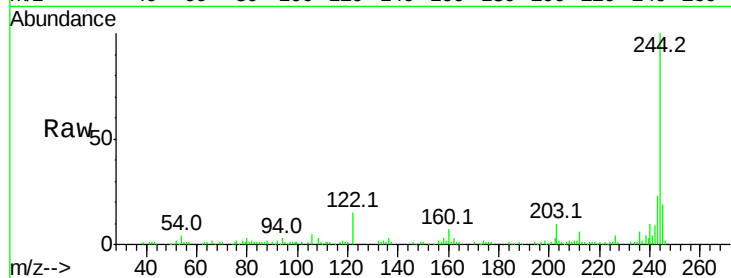
#78
 Terphenyl-d14
 Concen: 8.352 ng
 RT: 12.55 min Scan# 1812
 Delta R.T. -0.04 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.2	6.0	9.0
122	14.5	10.3	15.5

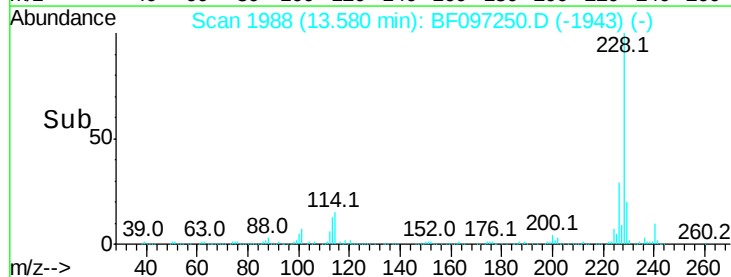
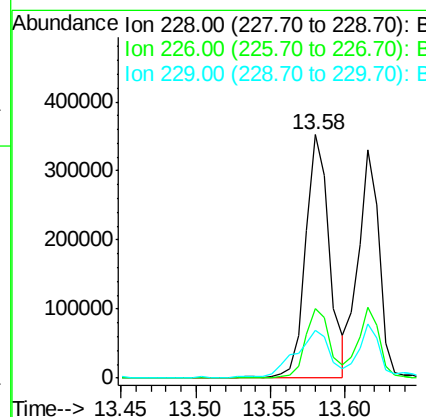
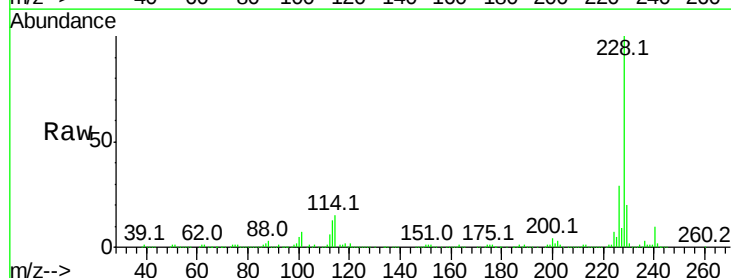
Manual Integrations
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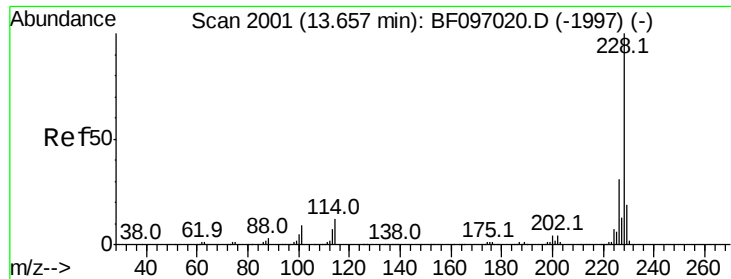
Sohil
 8/2/2017 7:15:32 PM



#80
 Benzo(a)anthracene
 Concen: 30.958 ng
 RT: 13.58 min Scan# 1988
 Delta R.T. -0.04 min
 Lab File: BF097250.D
 Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.9	16.3	24.5





#82

Chrysene

Concen: 26.733 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.04 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Instrument :

BNA_F

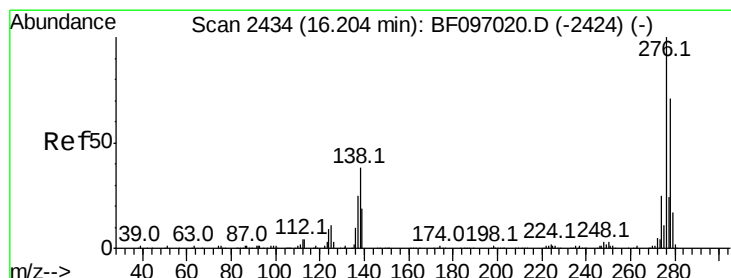
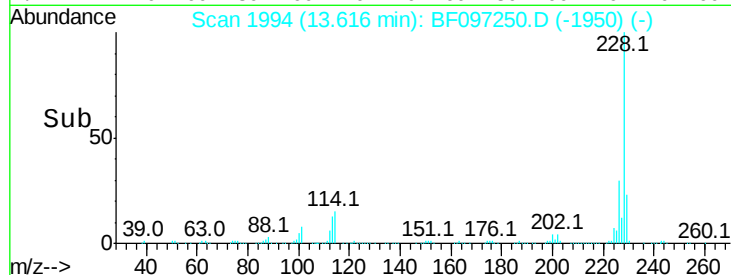
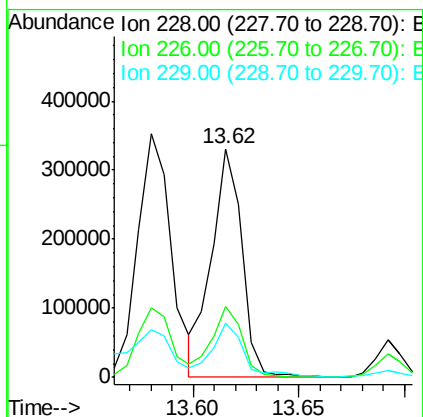
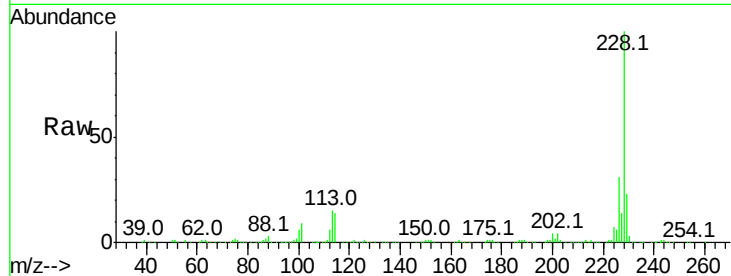
ClientSampleId :

TP-17-SS-8DL

Tot Ion:	228	Resp:	329198
Ion Ratio	Lower	Upper	
228	100		
226	31.0	24.9	37.3
229	23.5	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 12.032 ng

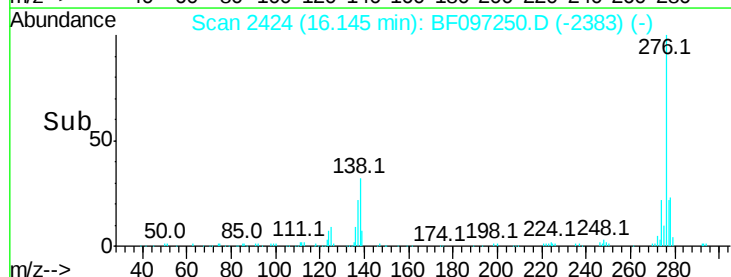
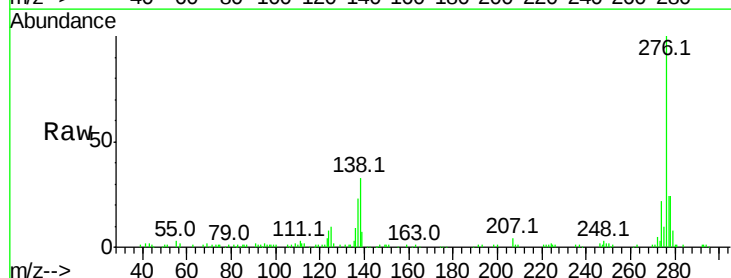
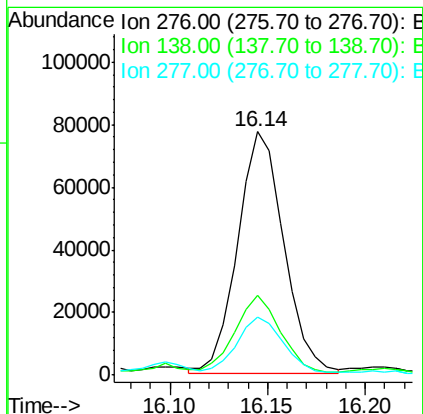
RT: 16.14 min Scan# 2424

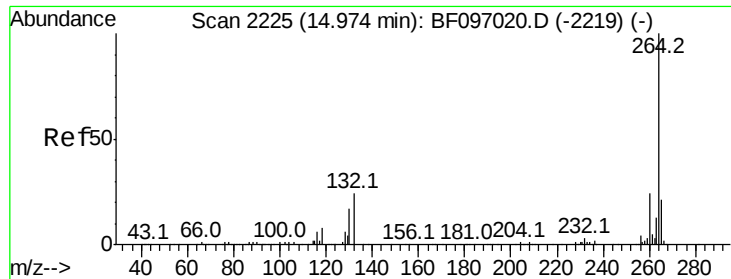
Delta R.T. -0.06 min

Lab File: BF097250.D

Acq: 2 Aug 2017 3:19

Tgt Ion:	276	Resp:	127052
Ion Ratio	Lower	Upper	
276	100		
138	31.1	27.8	41.6
277	23.2	20.2	30.4





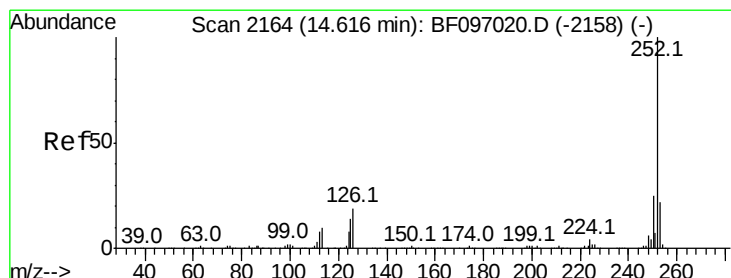
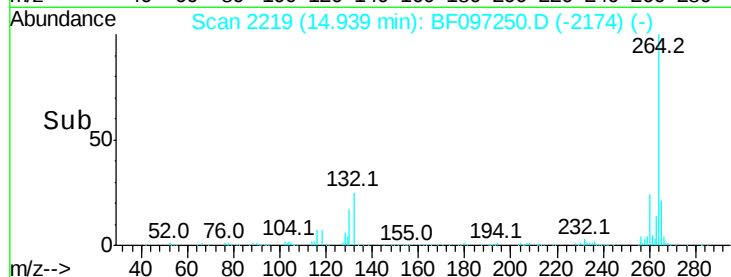
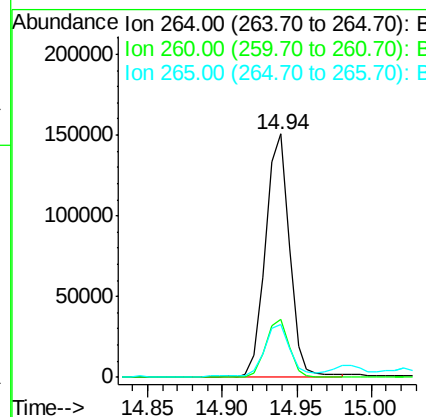
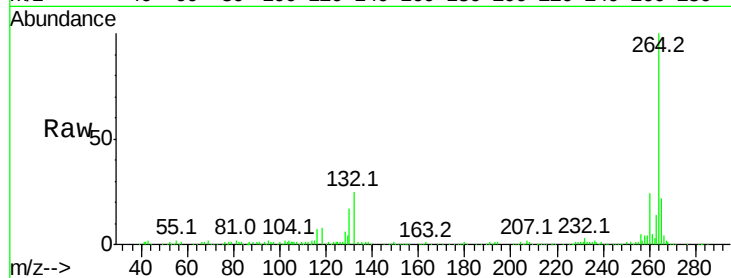
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.94 min Scan# 2219
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	21.5	17.2	25.8

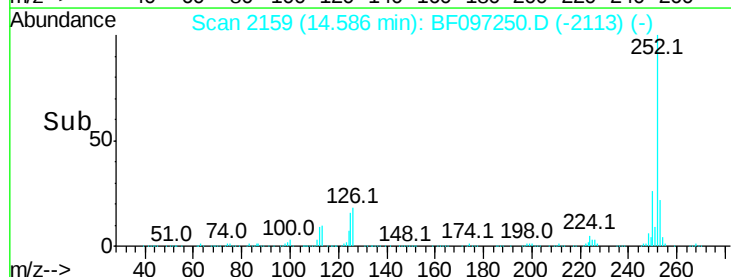
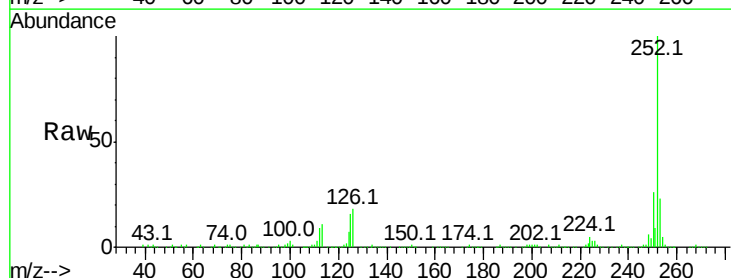
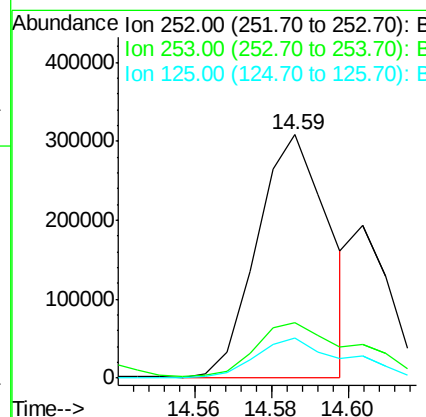
Manual Integrations
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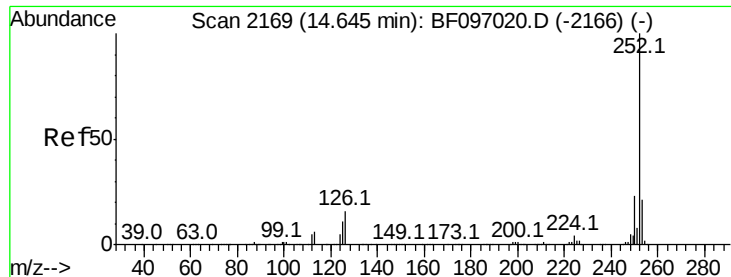
Sohil
8/2/2017 7:15:32 PM



#87
Benzo(b)fluoranthene
Concen: 39.954 ng m
RT: 14.59 min Scan# 2159
Delta R.T. -0.03 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	16.5	9.8	14.8#





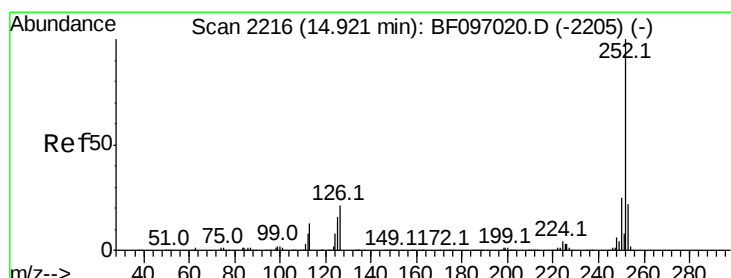
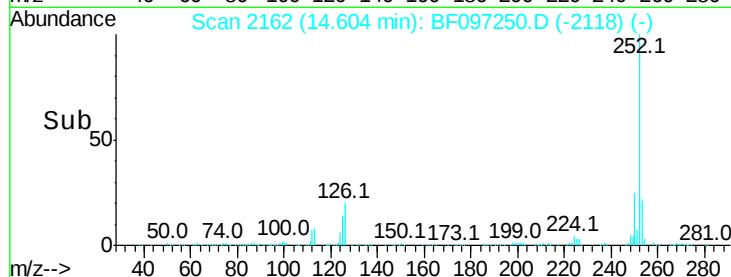
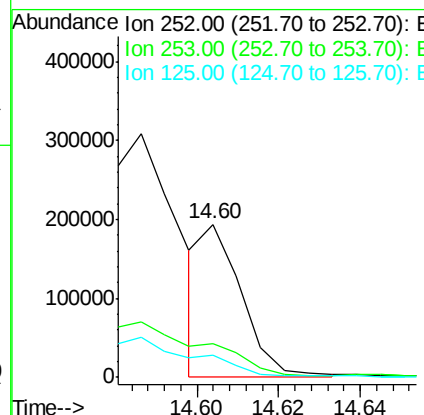
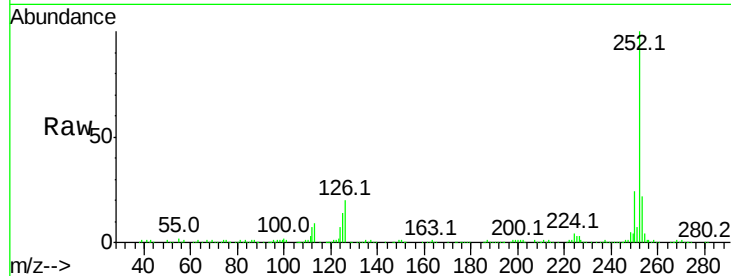
#88
Benzo(k)fluoranthene
Concen: 13.790 ng m
RT: 14.60 min Scan# 2162
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.4	27.6
125	14.1	13.1	19.7

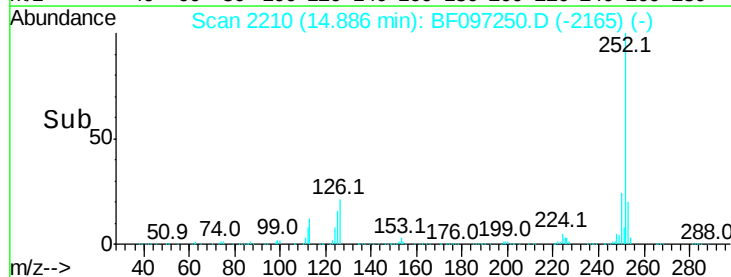
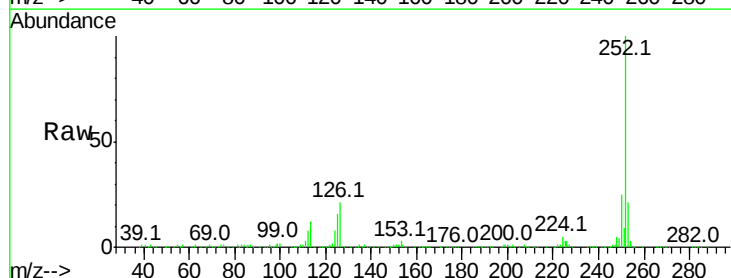
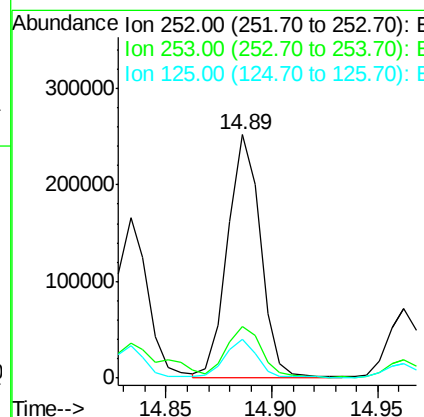
Manual Integrations
APPROVED

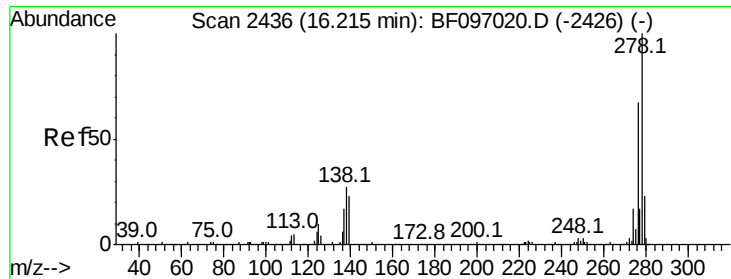
Sohil
8/2/2017 7:15:32 PM



#89
Benzo(a)pyrene
Concen: 29.196 ng
RT: 14.89 min Scan# 2210
Delta R.T. -0.04 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	15.7	11.0	16.4





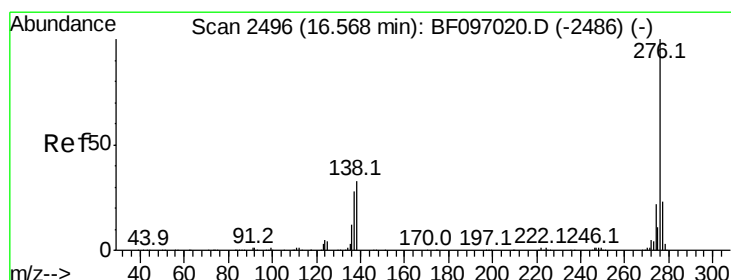
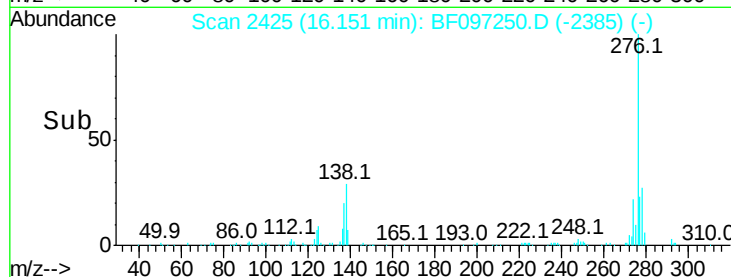
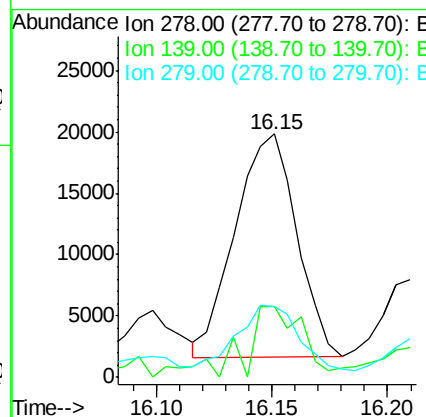
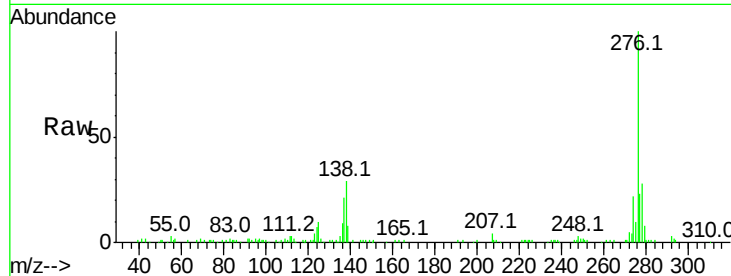
#90
Dibenzo(a,h)anthracene
Concen: 4.441 ng
RT: 16.15 min Scan# 2425
Delta R.T. -0.06 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Instrument :
BNA_F
ClientSampled :
TP-17-SS-8DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	29.1	16.6	24.8#
279	28.9	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/2/2017 7:15:32 PM



#91
Benzo(g,h,i)perylene
Concen: 13.780 ng
RT: 16.50 min Scan# 2485
Delta R.T. -0.06 min
Lab File: BF097250.D
Acq: 2 Aug 2017 3:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	31.8	25.4	38.0

