

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
 Data File : BF098181.D
 Acq On : 31 Aug 2017 3:05
 Operator : SJ/JU
 Sample : I5023-04 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-082917-B

Manual Integrations
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 8/31/2017 7:13:13 PM

Quant Time: Aug 31 13:38:25 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	119981	20.00	ng	-0.02
21) Naphthalene-d8	8.01	136	431264	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	159346	20.00	ng	-0.02
63) Phenanthrene-d10	11.25	188	267060	20.00	ng	-0.02
75) Chrysene-d12	13.88	240	220272	20.00	ng	-0.02
86) Perylene-d12	15.30	264	158340	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	565735	71.72	ng	-0.02
7) Phenol-d6	6.36	99	738994	68.95	ng	-0.02
23) Nitrobenzene-d5	7.29	82	423958	53.40	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	88490	64.00	ng	-0.03
44) 2-Fluorobiphenyl	9.09	172	605981	55.87	ng	-0.02
78) Terphenyl-d14	12.83	244	424656	40.20	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.03	128	51475	2.299	ng	99
37) 2-Methylnaphthalene	8.72	142	33583	2.447	ng	95
48) Acenaphthylene	9.62	152	63317	3.755	ng	96
49) Dimethylphthalate	9.48	163	90931	7.807	ng	98
51) Acenaphthene	9.79	154	54811	5.155	ng	96
54) Dibenzofuran	9.96	168	69323	4.864	ng	# 96
57) Fluorene	10.30	166	112475	10.208	ng	94
70) Phenanthrene	11.27	178	826445	58.074	ng	100
71) Anthracene	11.32	178	275249	19.070	ng	99
72) Carbazole	11.47	167	100015	7.300	ng	98
74) Fluoranthene	12.46	202	1463094	98.500	ng	99
77) Pyrene	12.69	202	1507309	83.666	ng	99
80) Benzo(a)anthracene	13.87	228	764678	57.922	ng	97
82) Chrysene	13.91	228	713228	54.309	ng	97
85) Indeno(1,2,3-cd)pyrene	16.67	276	328247	33.977	ng	# 89
87) Benzo(b)fluoranthene	14.90	252	818865m	82.045	ng	
88) Benzo(k)fluoranthene	14.92	252	250652m	26.731	ng	
89) Benzo(a)pyrene	15.24	252	574692	65.043	ng	98
90) Dibenzo(a,h)anthracene	16.68	278	78306m	10.886	ng	
91) Benzo(a,h,i)perylene	17.09	276	308603	41.117	ng	93

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

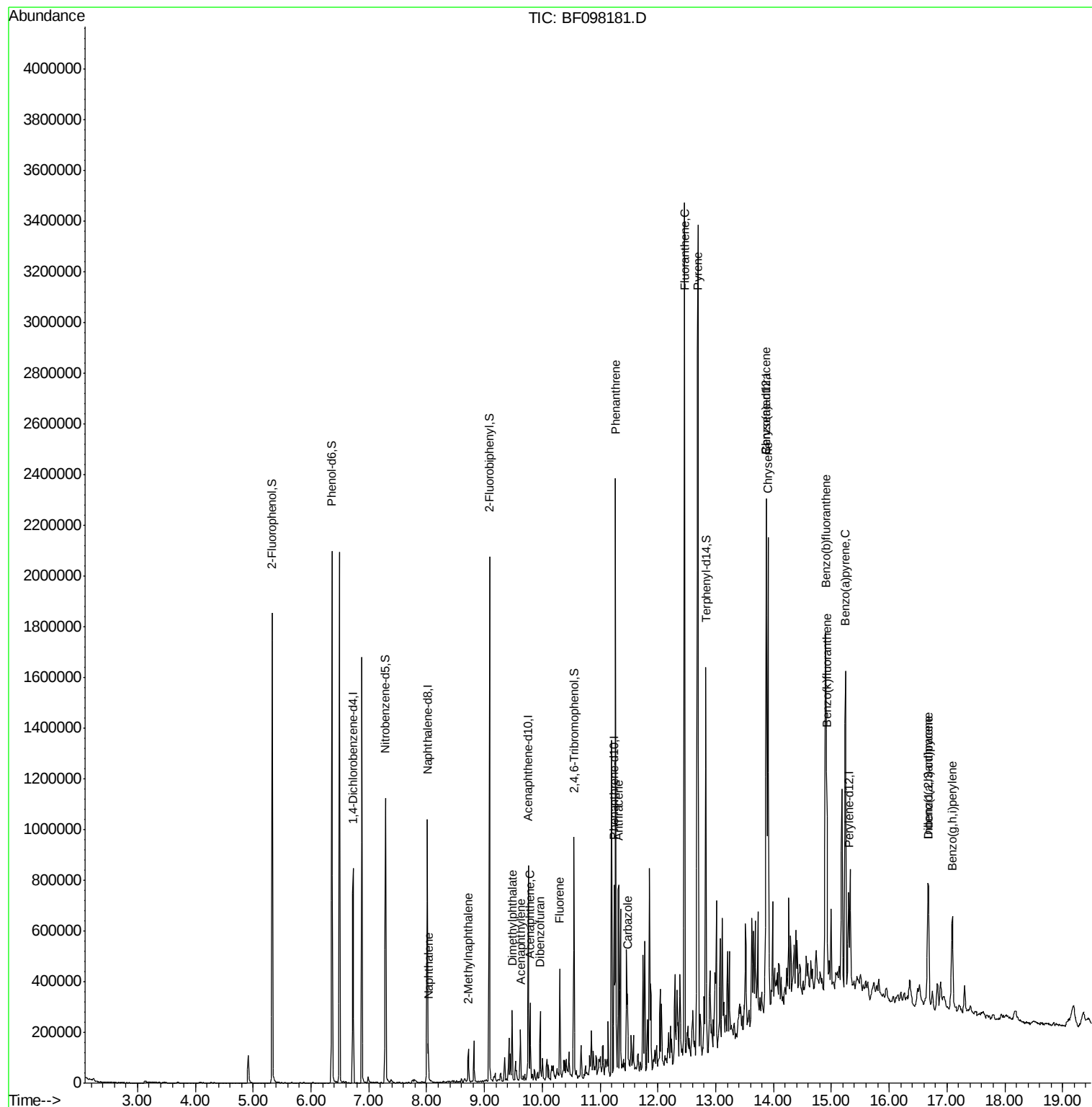
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#1

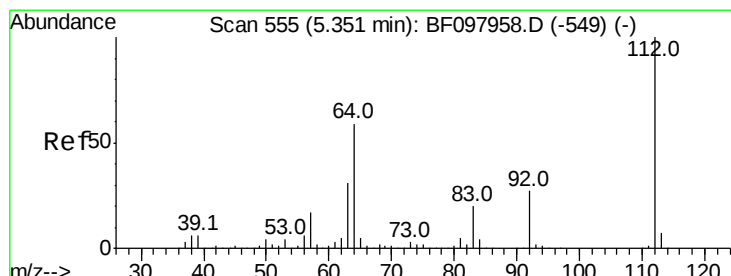
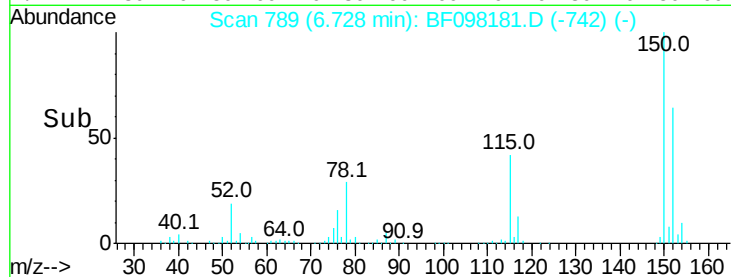
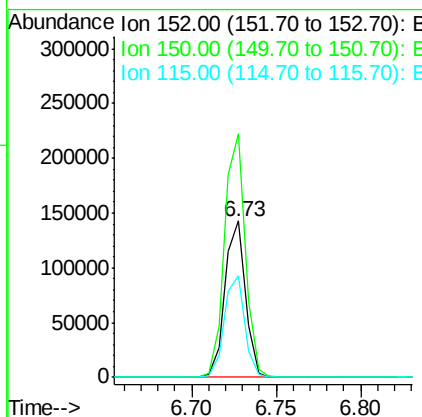
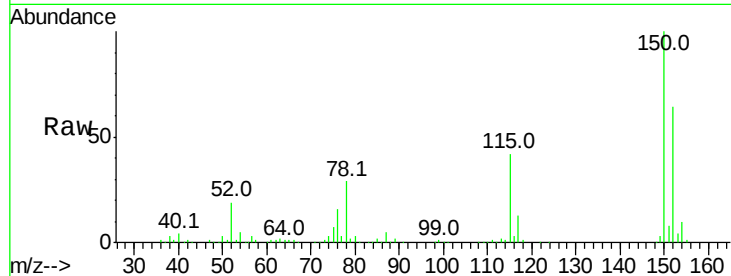
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.2	189.2
115	65.2	52.2	78.2

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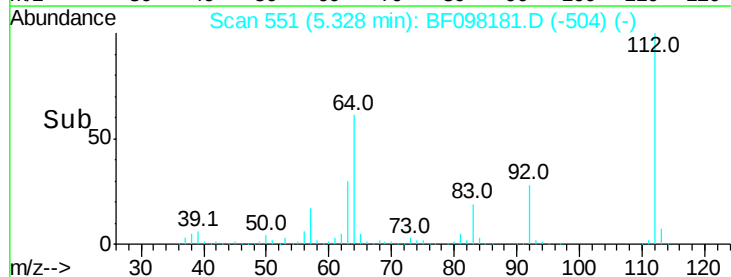
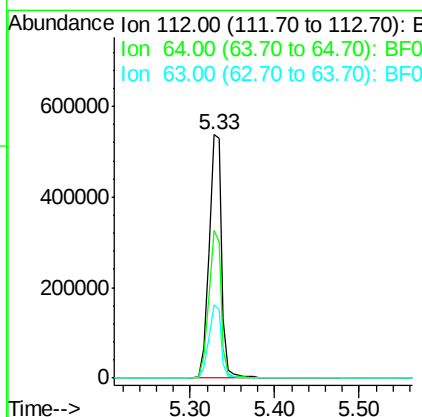
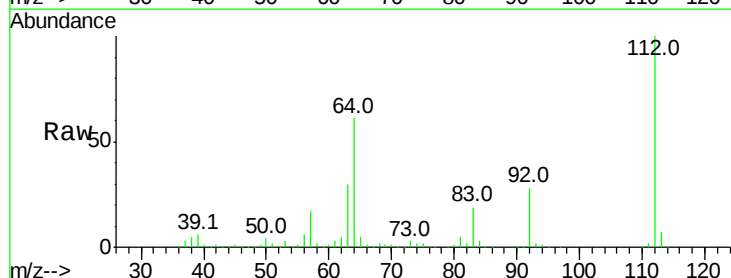
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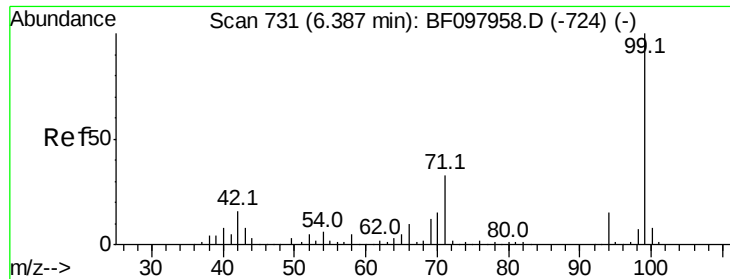


#5

2-Fluorophenol
Concen: 71.722 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	46.0	69.0
63	30.0	23.4	35.0





#7

Phenol-d6

Concen: 68.953 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Instrument :

BNA_F

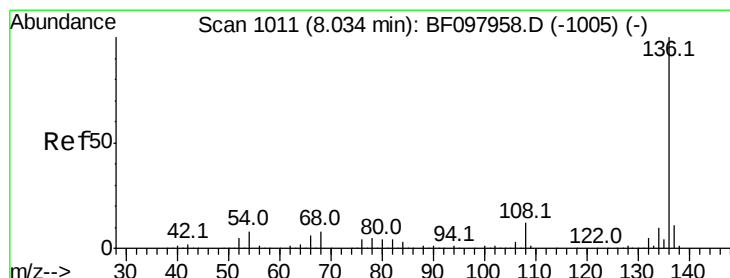
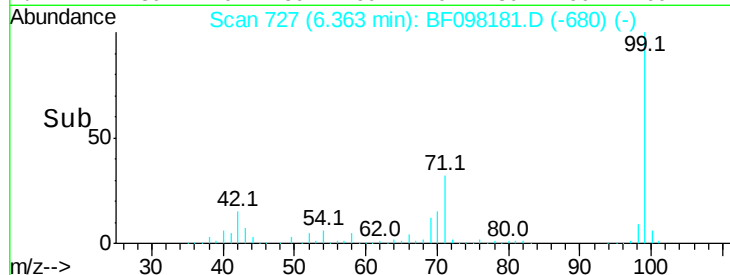
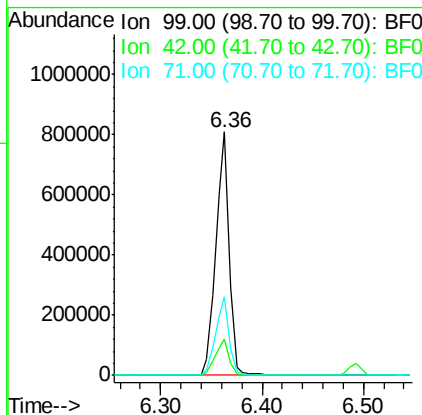
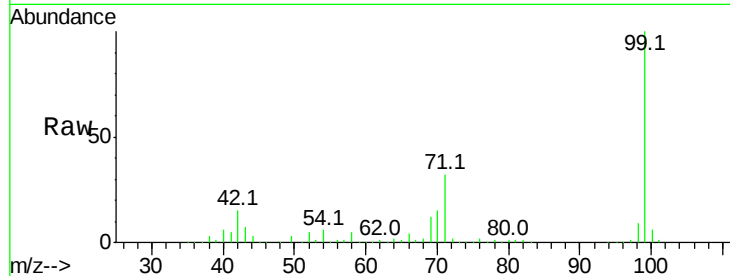
ClientSampled :

PL-01-082917-B

Tot Ion:	99	Resp:	738994
Ion Ratio	Lower	Upper	
99	100		
42	14.8	13.5	20.3
71	32.0	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

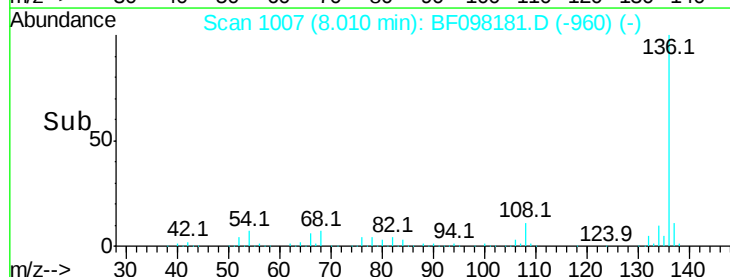
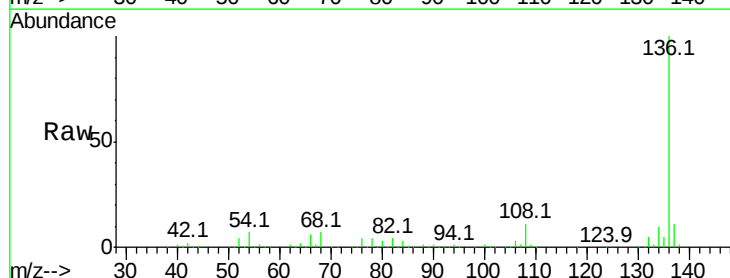
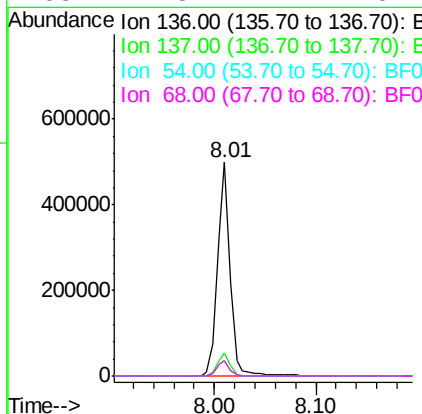
RT: 8.01 min Scan# 1007

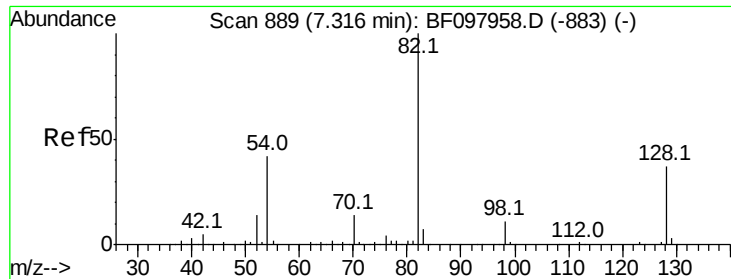
Delta R.T. -0.02 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Tgt Ion:	136	Resp:	431264
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	7.4	4.9	7.3#
68	7.3	4.1	6.1#





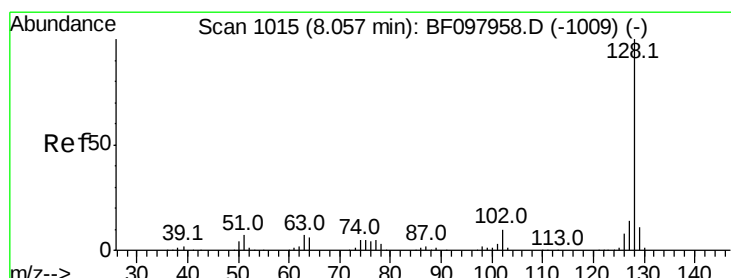
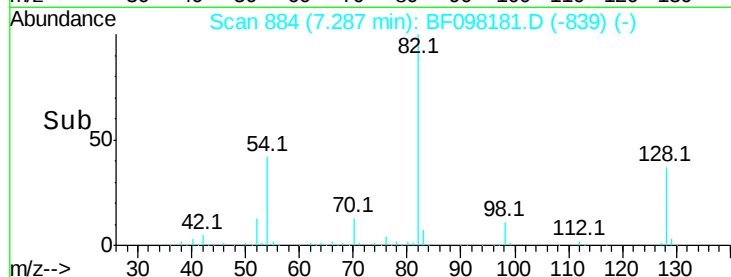
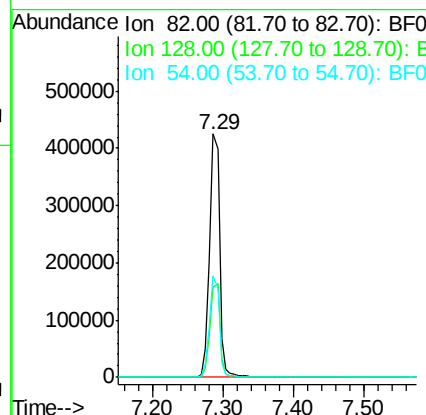
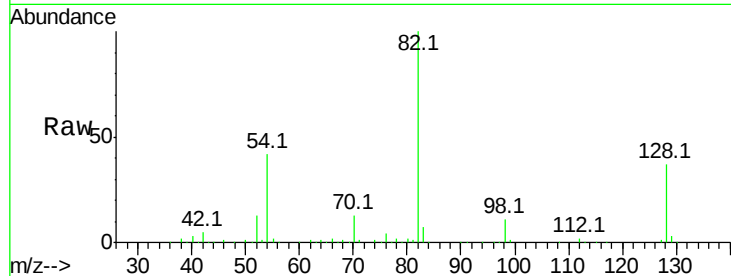
#23
Nitrobenzene-d5
Concen: 53.404 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.04 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	37.1	34.0	51.0	
54	41.7	42.2	63.2	

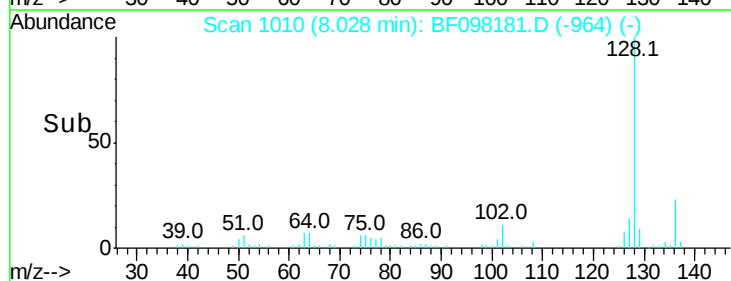
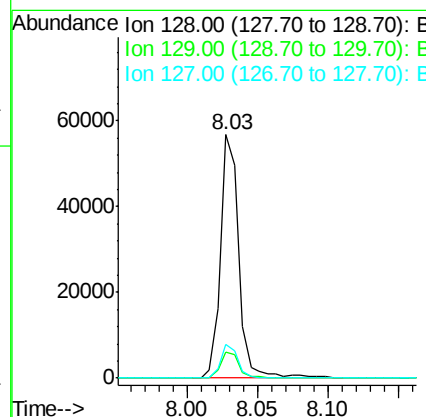
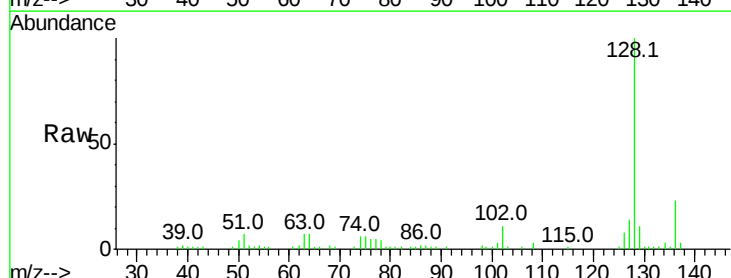
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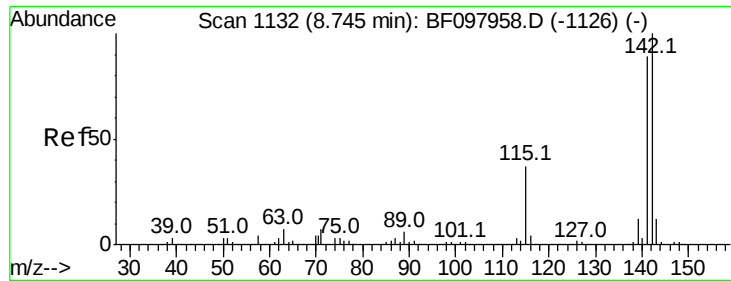
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#31
Naphthalene
Concen: 2.299 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.6	9.0	13.6	
127	13.7	10.8	16.2	





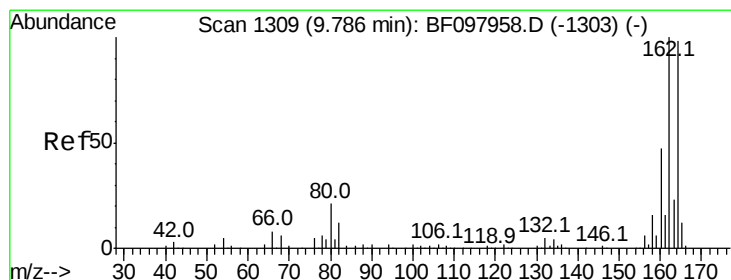
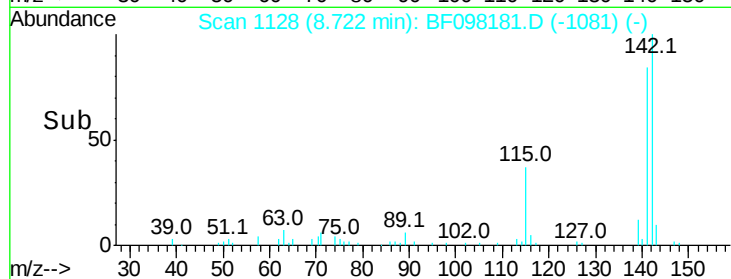
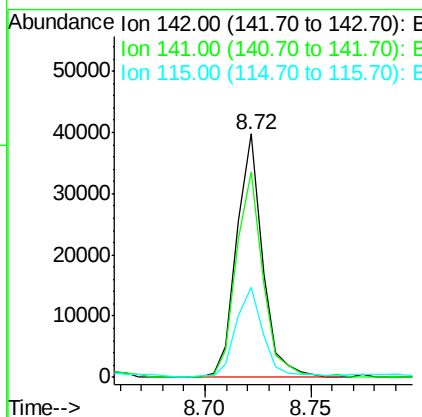
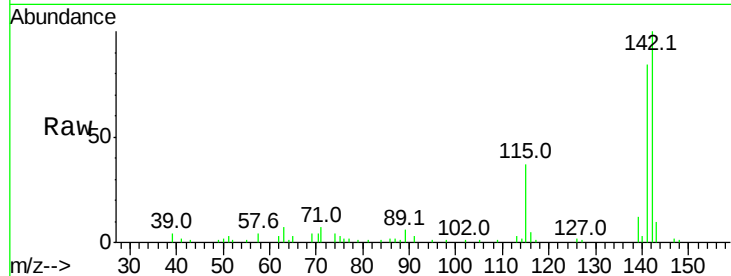
#37
 2-Methylnaphthalene
 Concen: 2.447 ng
 RT: 8.72 min Scan# 1128
 Delta R.T. -0.02 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Instrument :
 BNA_F
 ClientSampled :
 PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.2	71.3	106.9
115	36.8	27.1	40.7

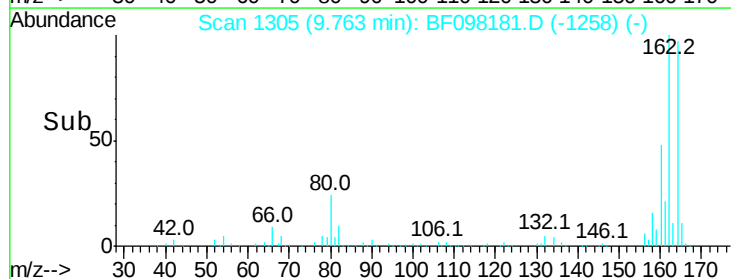
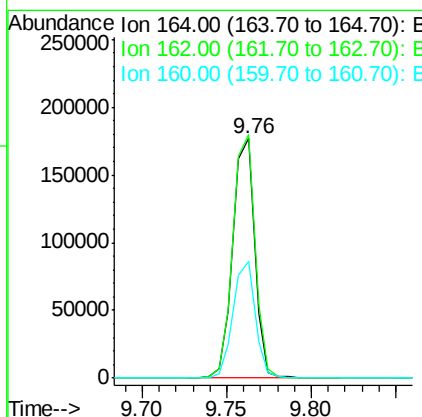
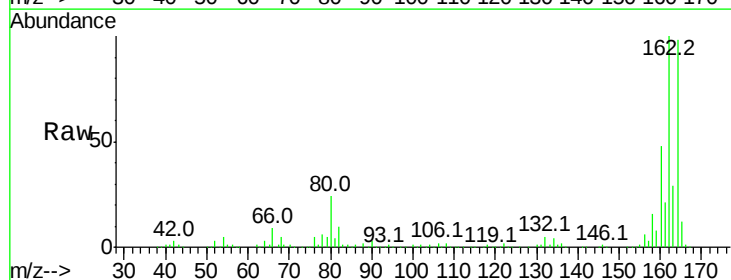
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.02 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	48.9	36.2	54.2





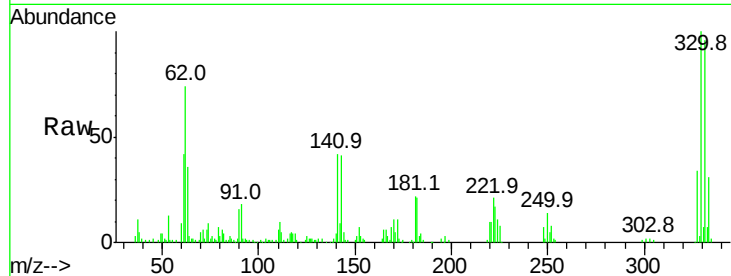
#41
 2,4,6-Tribromophenol
 Concen: 64.003 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.03 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-082917-B

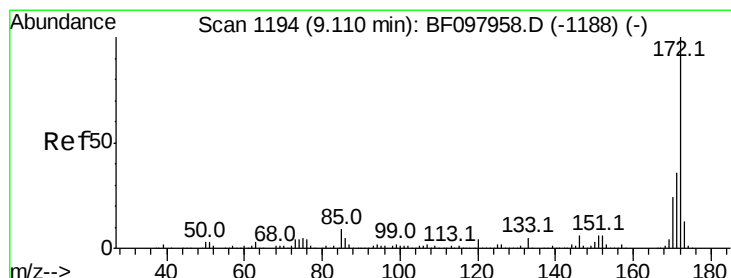
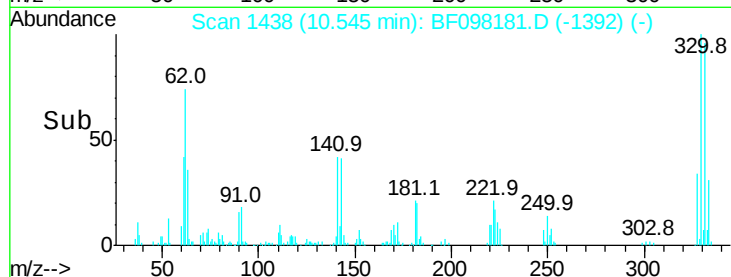
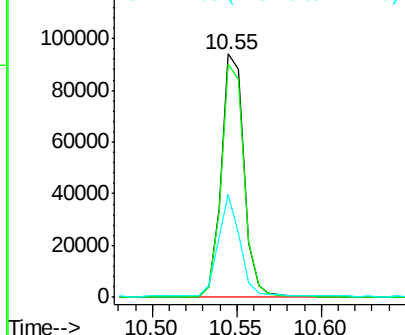
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.6	115.0
141	43.1	31.4	47.2

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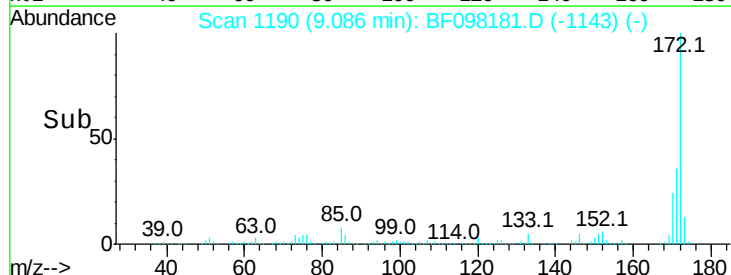
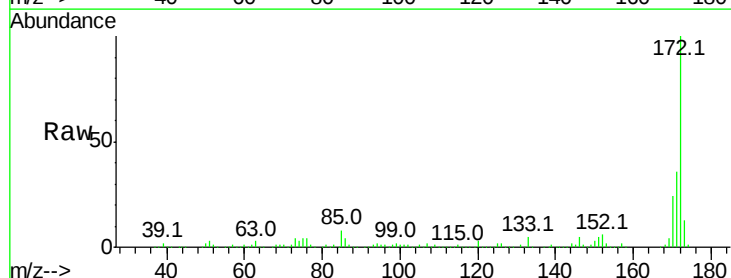
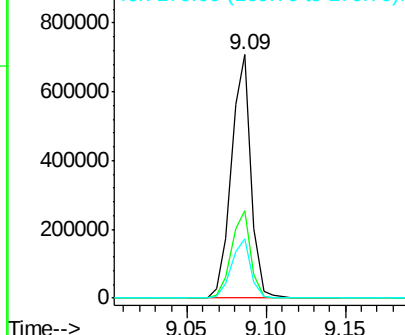
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

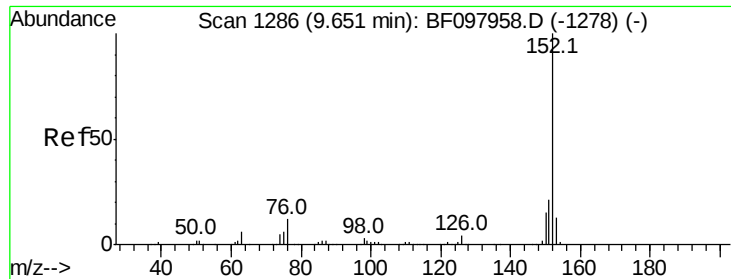


#44
 2-Fluorobiphenyl
 Concen: 55.873 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.02 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.6	44.4
170	24.4	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





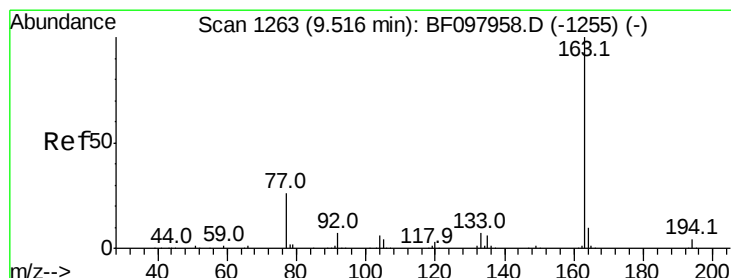
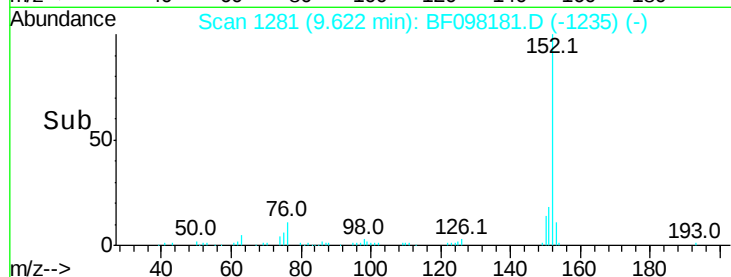
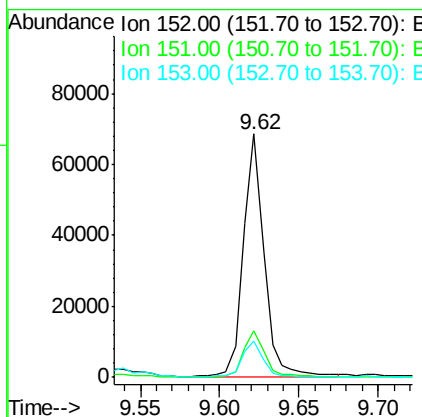
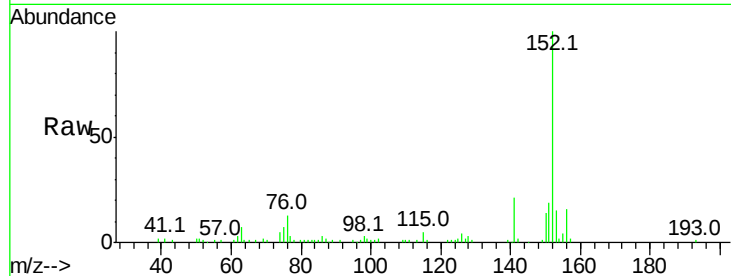
#48
Acenaphthylene
Concen: 3.755 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.03 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.8	25.2
153	15.0	10.8	16.2

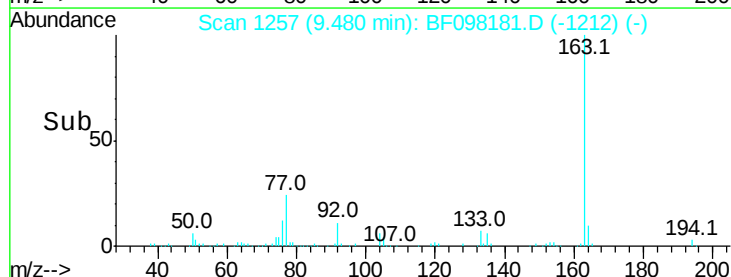
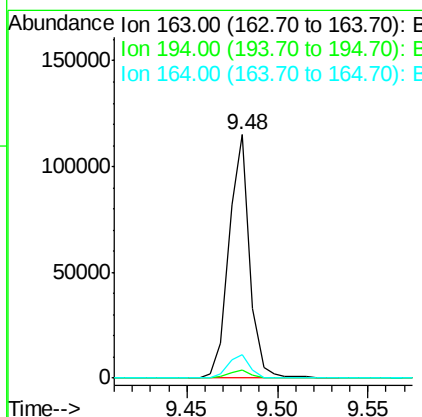
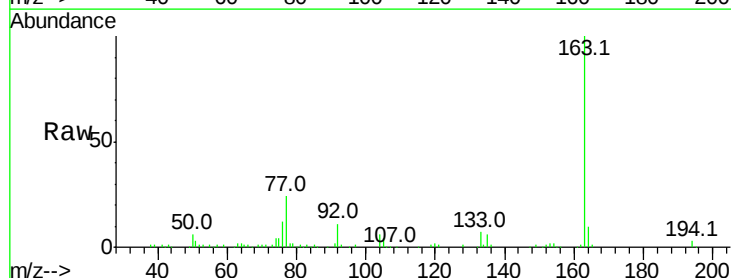
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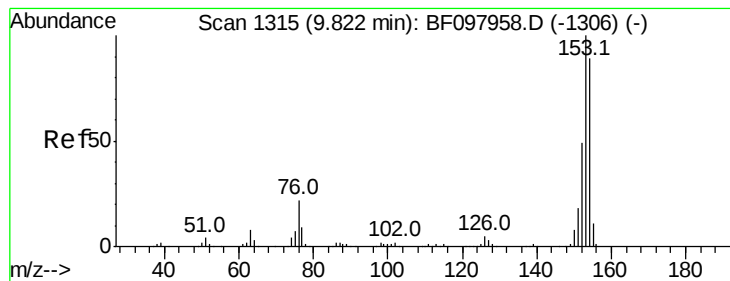
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#49
Dimethylphthalate
Concen: 7.807 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.04 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.6	8.4	12.6





#51

Acenaphthene

Concen: 5.155 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.03 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Instrument :

BNA_F

ClientSampleId :

PL-01-082917-B

Tot Ion:154 Resp: 54811

Ion Ratio Lower Upper

154 100

153 118.0 90.5 135.7

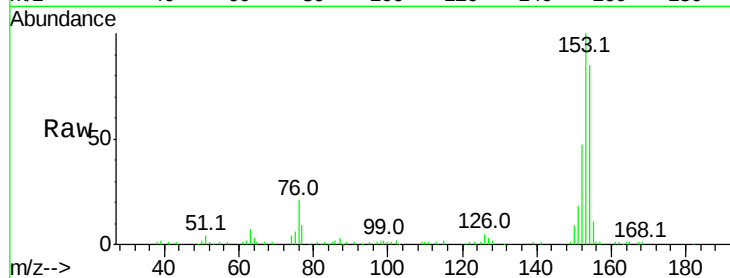
152 55.7 43.6 65.4

Manual Integrations

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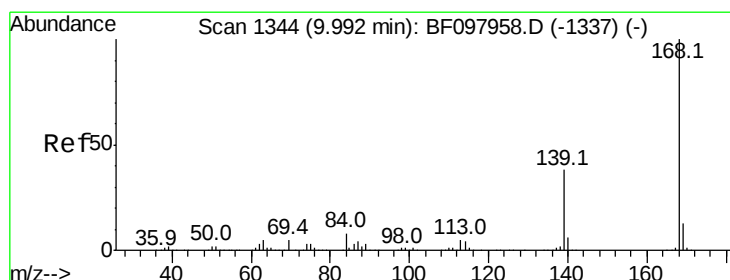
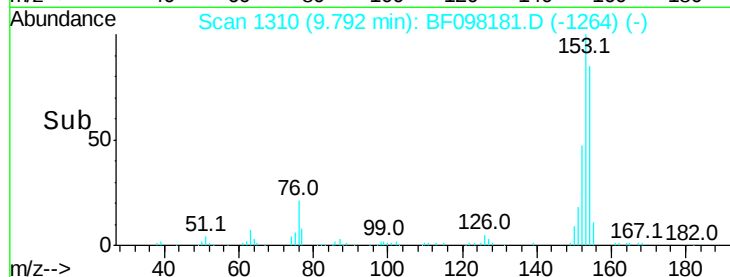
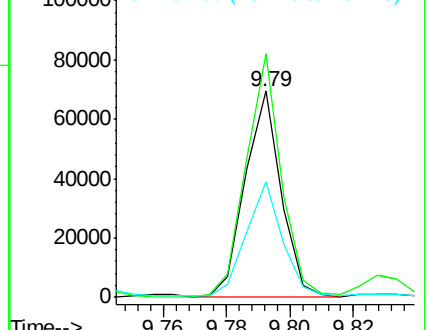
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.864 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.03 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

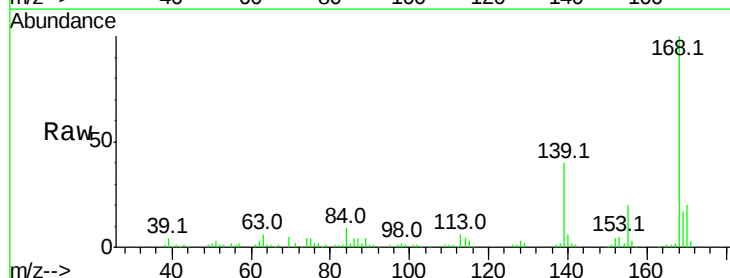
Tgt Ion:168 Resp: 69323

Ion Ratio Lower Upper

168 100

139 39.6 30.6 45.8

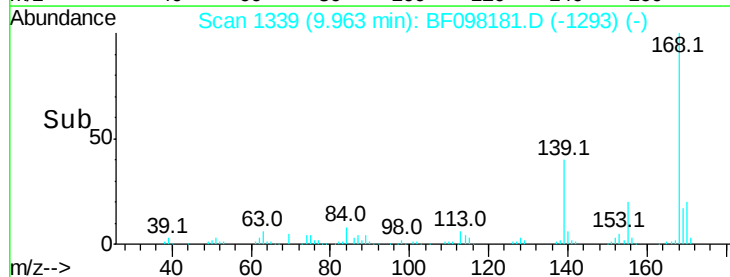
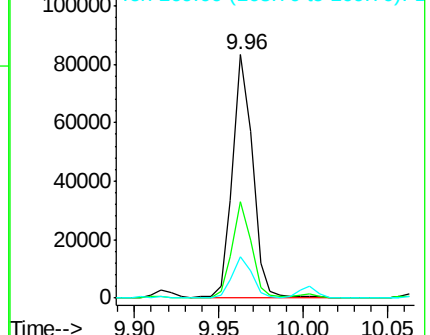
169 16.7 10.8 16.2#

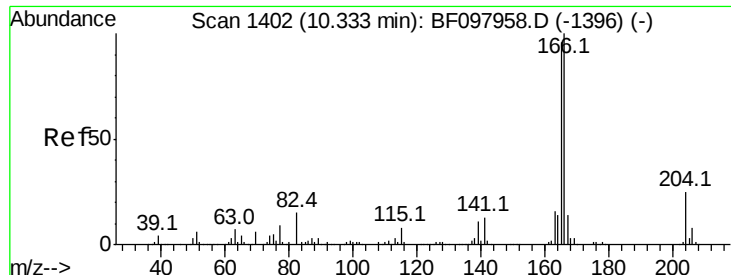


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





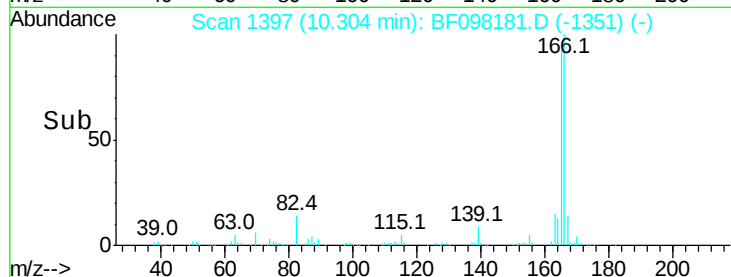
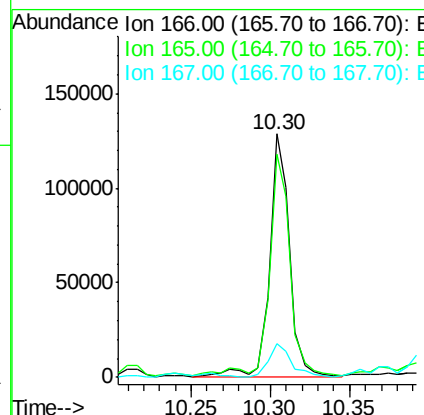
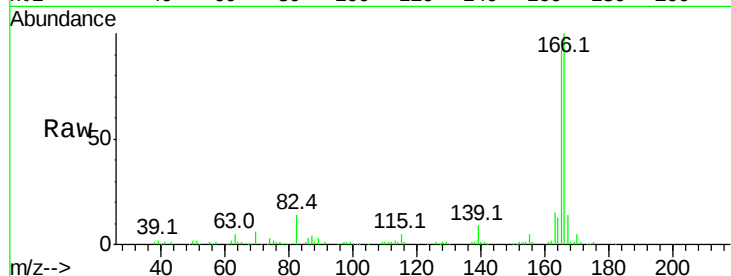
#57
Fluorene
 Concen: 10.208 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.03 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-082917-B

Tot Ion	Ratio	Resp	Lower	Upper
166	100	112475		
165	91.8	78.8	118.2	
167	13.7	10.6	16.0	

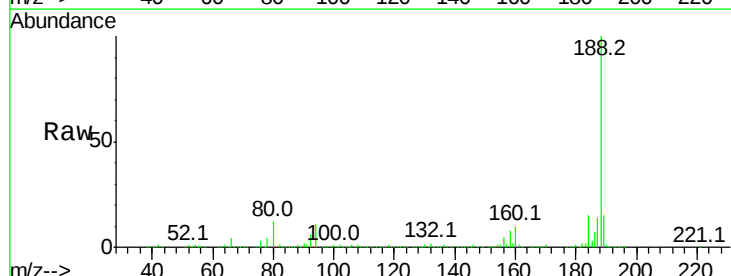
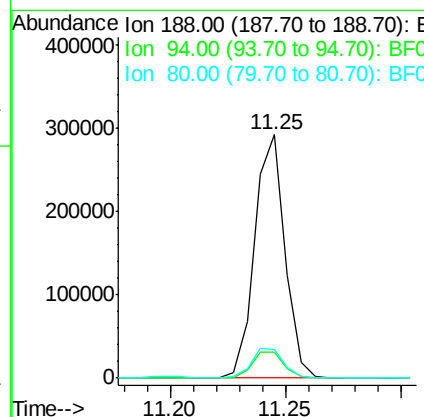
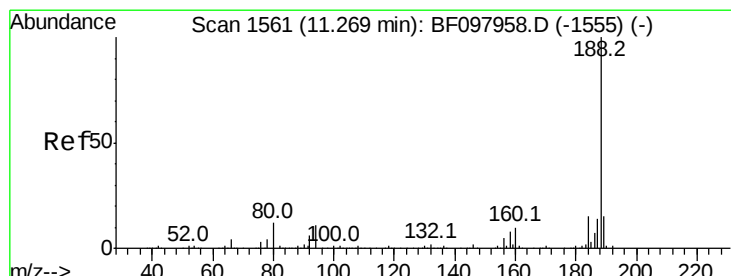
Manual Integrations
 APPROVED

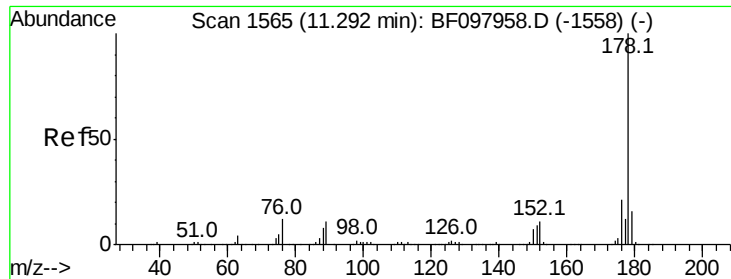
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF098181.D
 Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	267060		
94	10.9	9.4	14.2	
80	11.5	10.2	15.2	





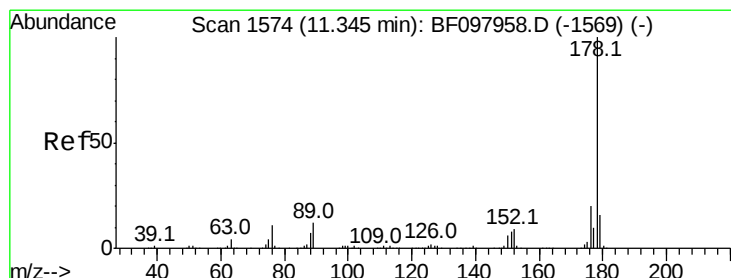
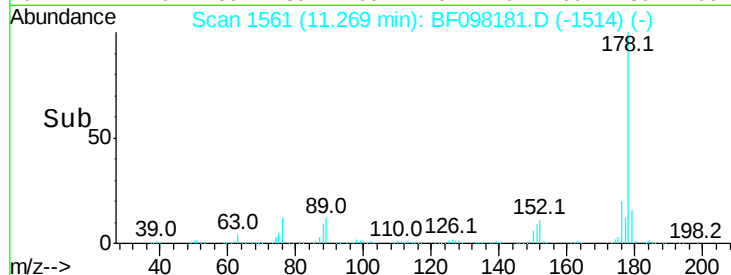
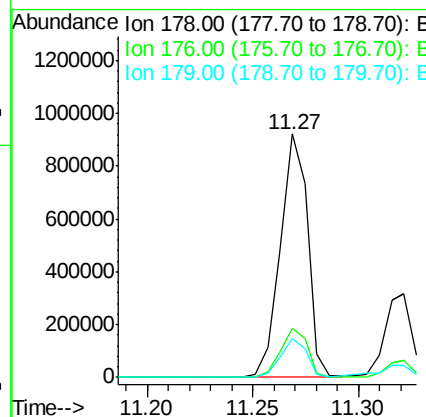
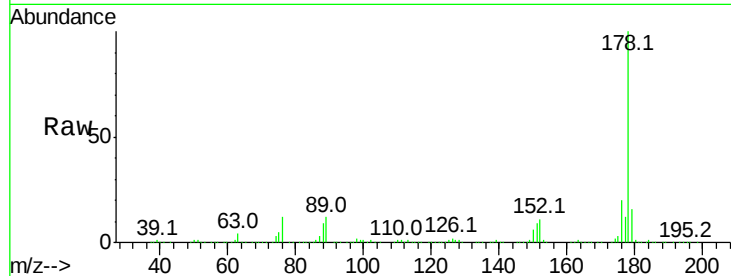
#70
Phenanthrene
Concen: 58.074 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.2	24.4
179	15.9	12.6	19.0

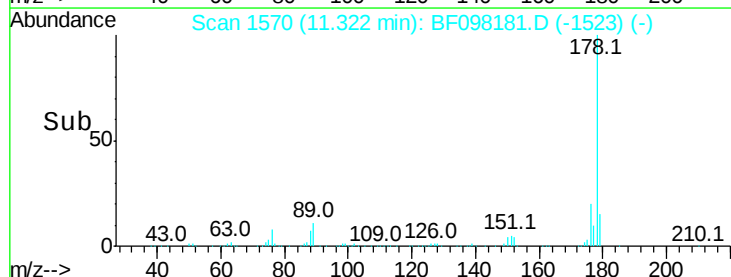
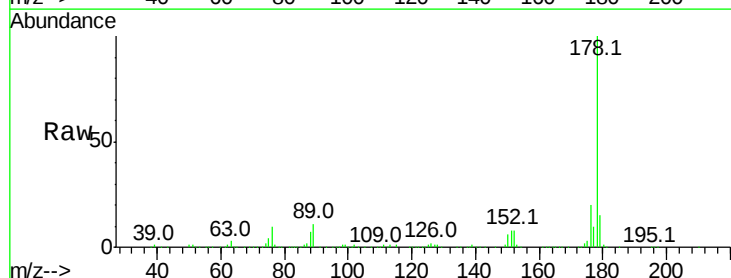
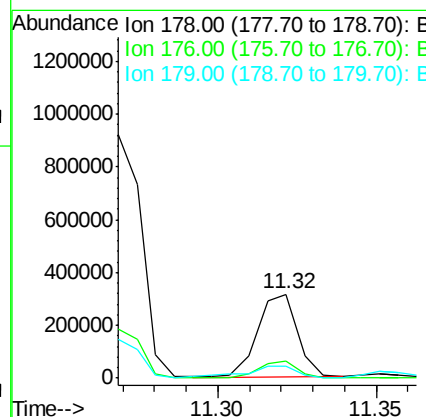
Manual Integrations
APPROVED

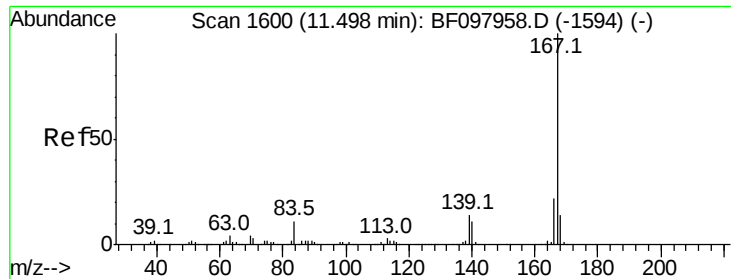
Sohil
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#71
Anthracene
Concen: 19.070 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	14.9	12.7	19.1





#72

Carbazole

Concen: 7.300 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.02 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Instrument :

BNA_F

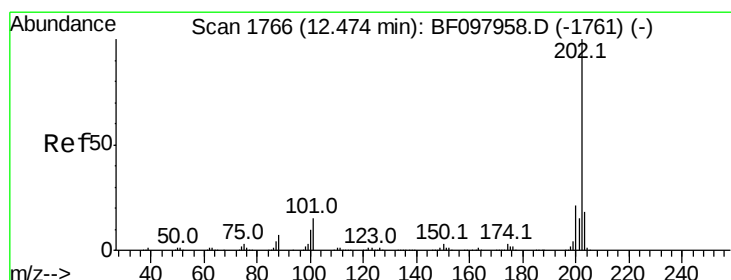
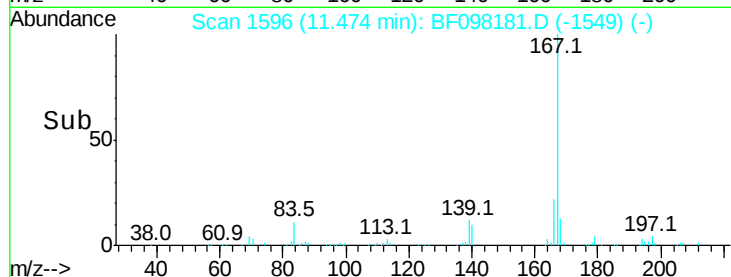
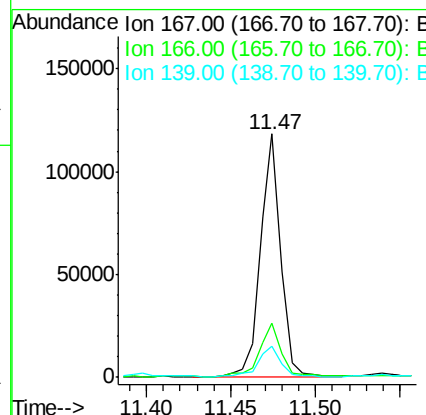
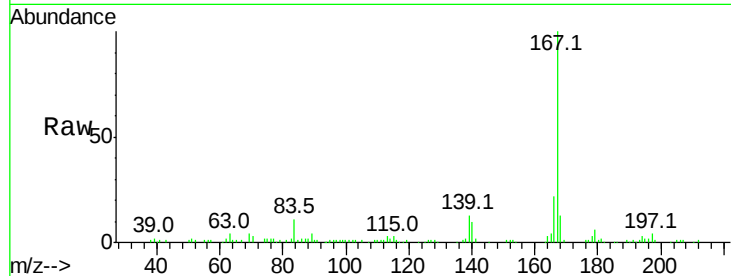
ClientSampleId :

PL-01-082917-B

Tot Ion:	167	Resp:	100015
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.1	27.1
139	12.7	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 98.500 ng

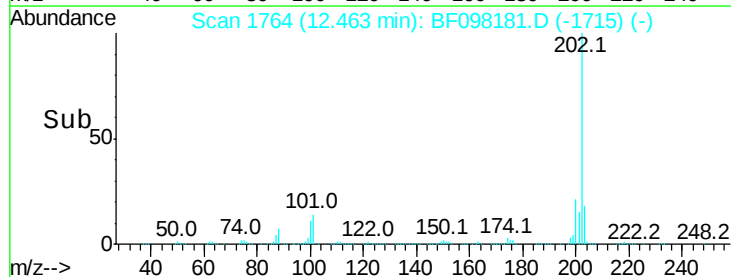
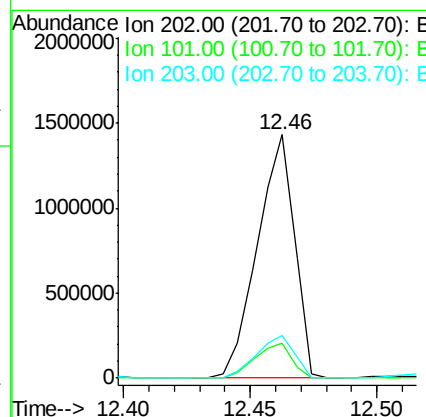
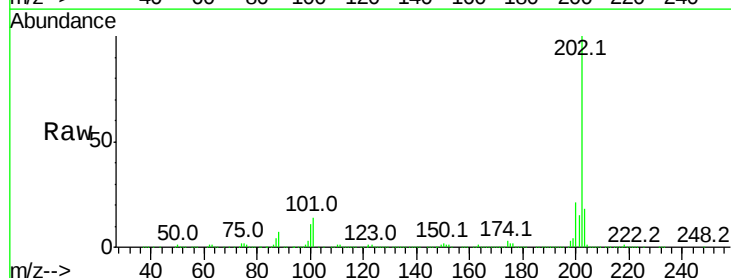
RT: 12.46 min Scan# 1764

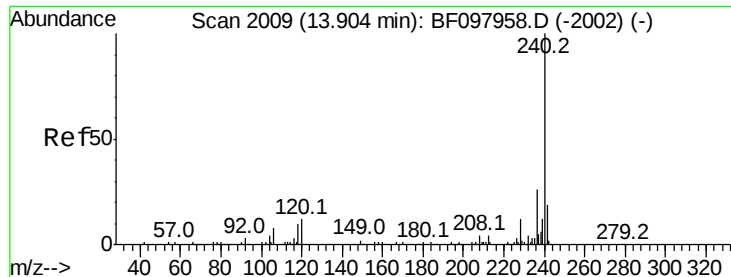
Delta R.T. -0.01 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Tgt Ion:	202	Resp:	1463094
Ion Ratio	Lower	Upper	
202	100		
101	14.1	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Instrument :

BNA_F

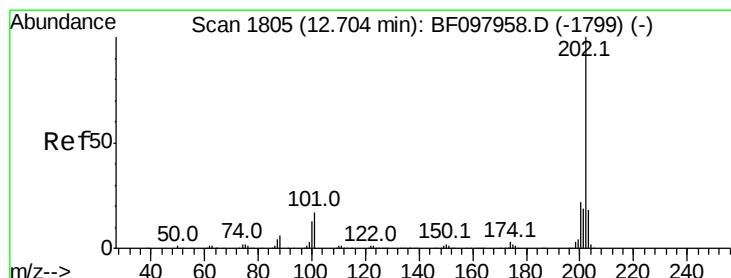
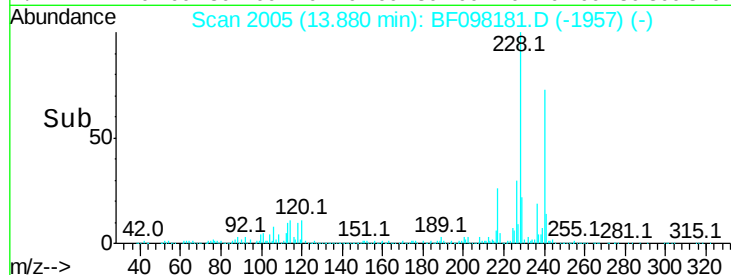
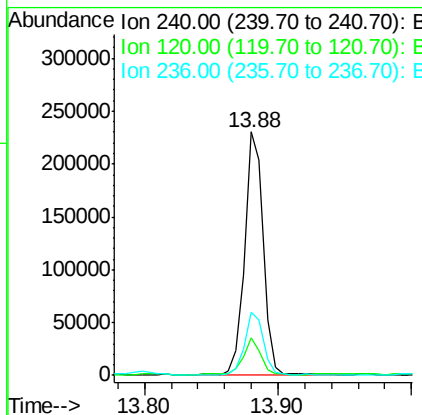
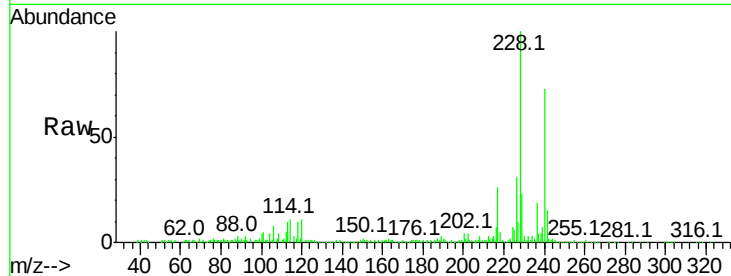
ClientSampleId :

PL-01-082917-B

Tot Ion:	240	Resp:	220272
Ion Ratio	Lower	Upper	
240	100		
120	15.6	5.8	8.8#
236	26.2	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 83.666 ng

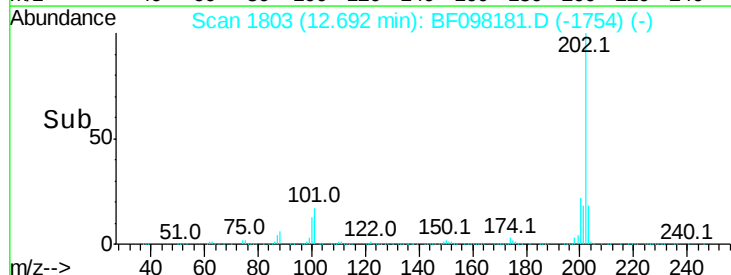
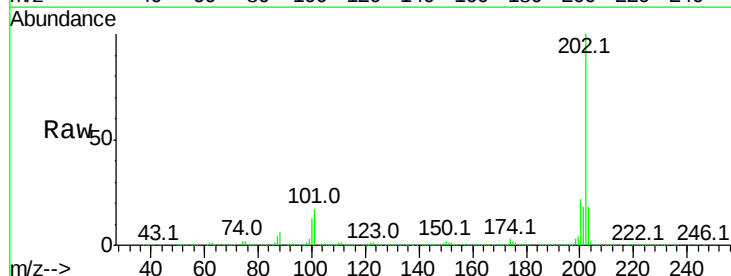
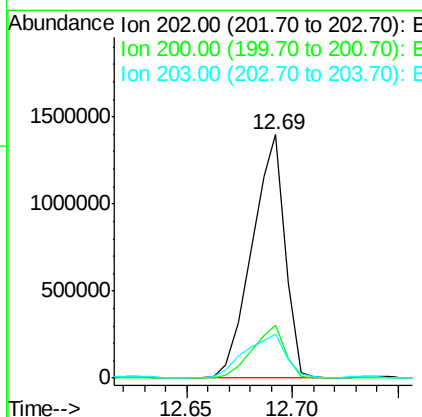
RT: 12.69 min Scan# 1803

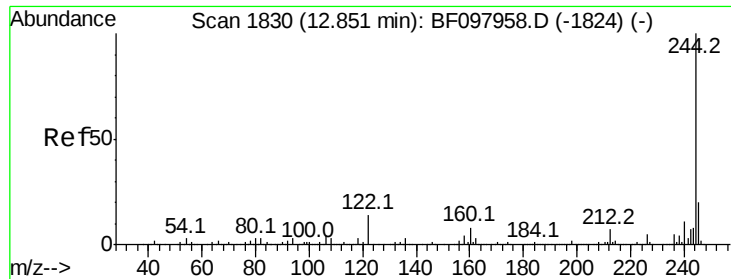
Delta R.T. -0.01 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Tgt Ion:	202	Resp:	1507309
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.6	26.4
203	17.9	14.4	21.6





#78

Terphenyl-d14

Concen: 40.203 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.02 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Instrument :

BNA_F

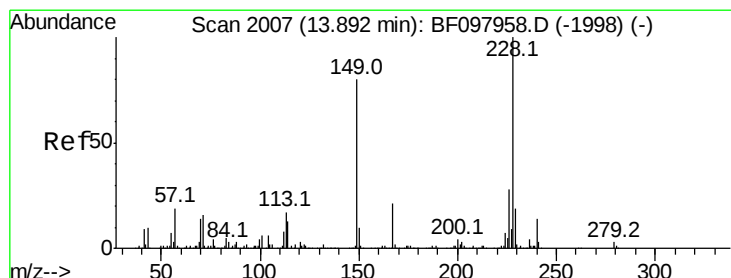
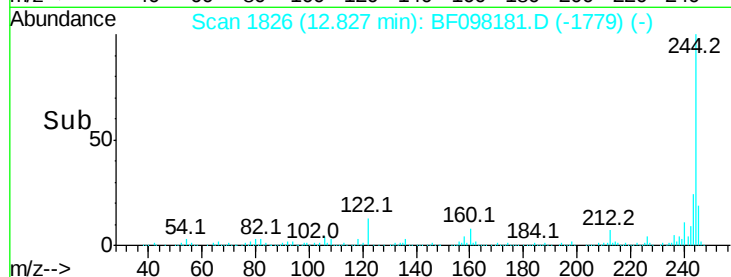
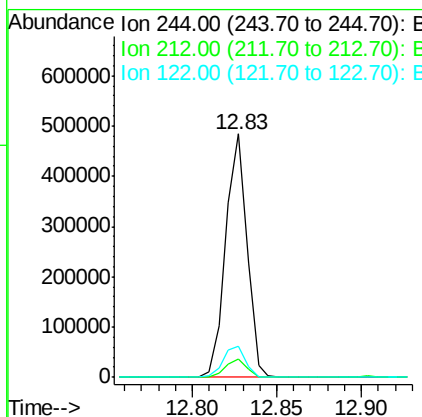
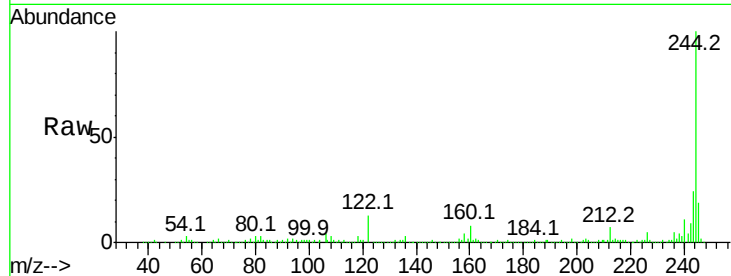
ClientSampleId :

PL-01-082917-B

Tot Ion:	244	Resp:	424656
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.0	9.0
122	13.0	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 57.922 ng

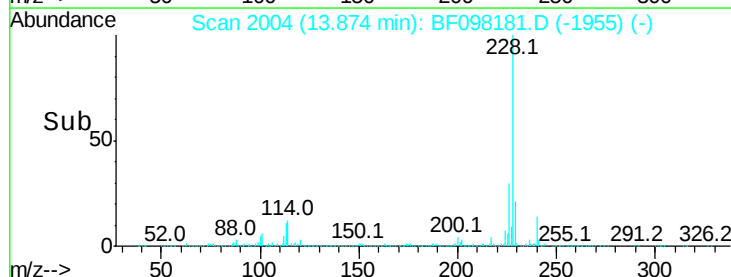
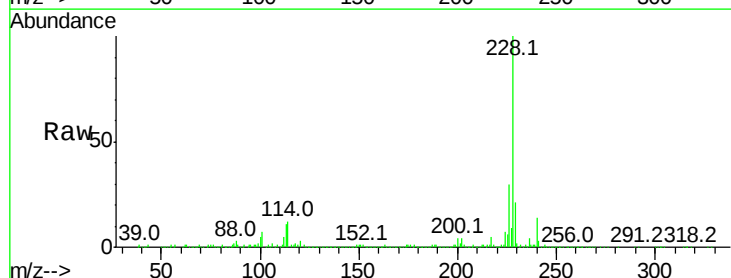
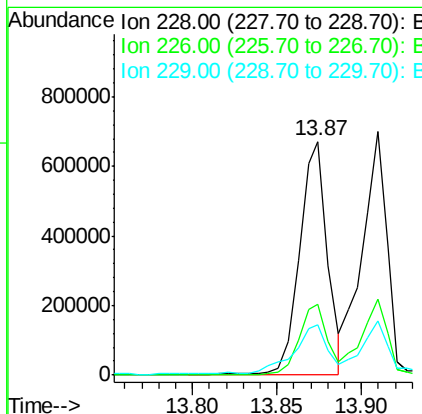
RT: 13.87 min Scan# 2004

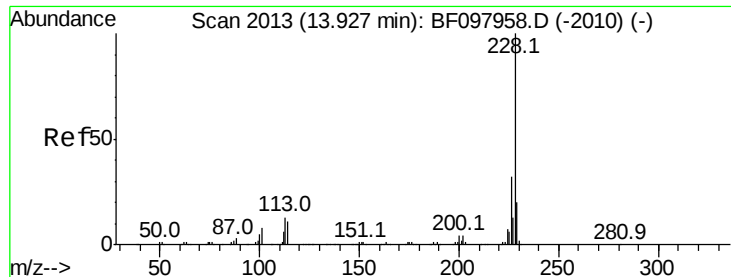
Delta R.T. -0.01 min

Lab File: BF098181.D

Acq: 31 Aug 2017 3:05

Tgt Ion:	228	Resp:	764678
Ion Ratio	Lower	Upper	
228	100		
226	30.3	22.6	33.8
229	21.3	16.3	24.5





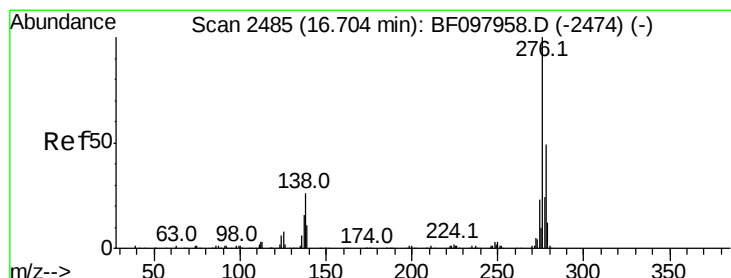
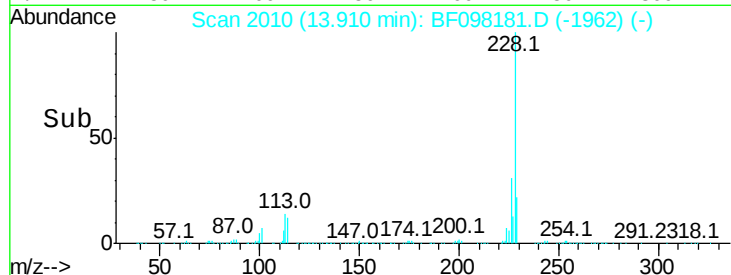
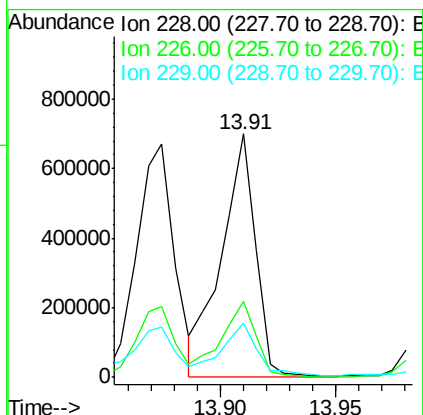
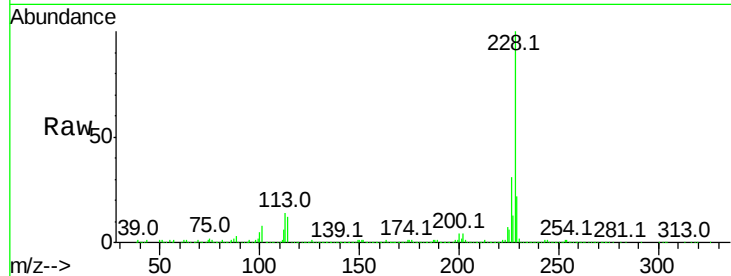
#82
Chrysene
Concen: 54.309 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Resp	Lower	Upper
228	100	713228		
226	31.4		24.9	37.3
229	22.4		15.8	23.6

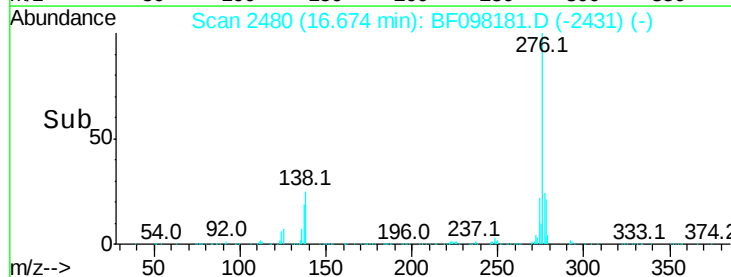
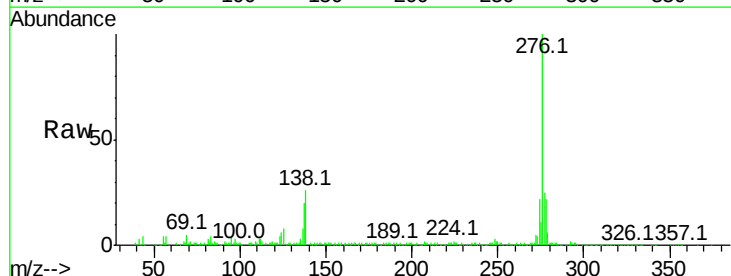
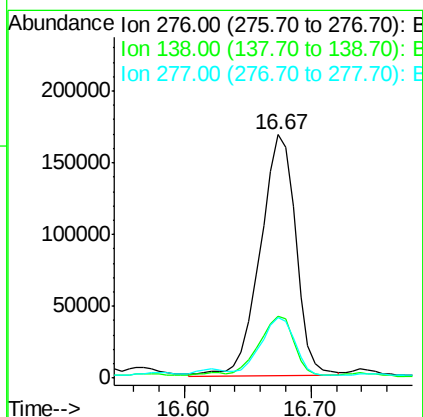
Manual Integrations
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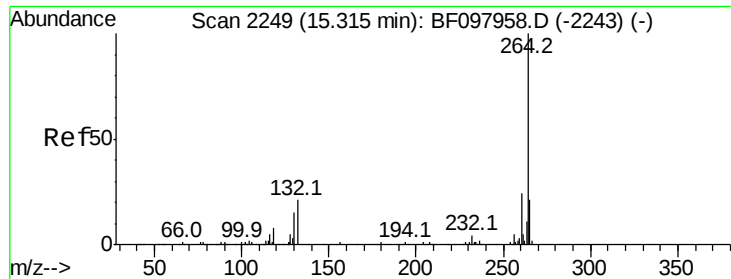
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 33.977 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	328247		
138	25.6		27.8	41.6#
277	23.0		20.2	30.4





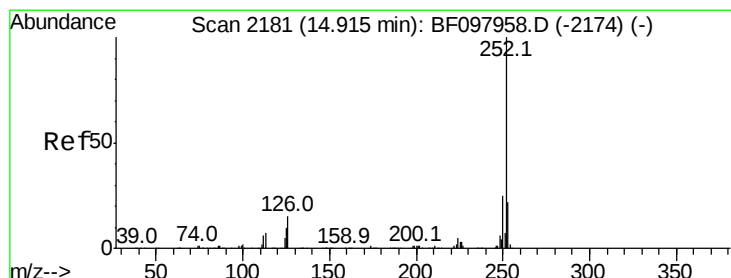
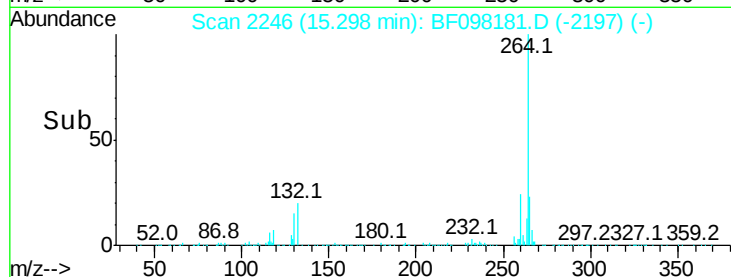
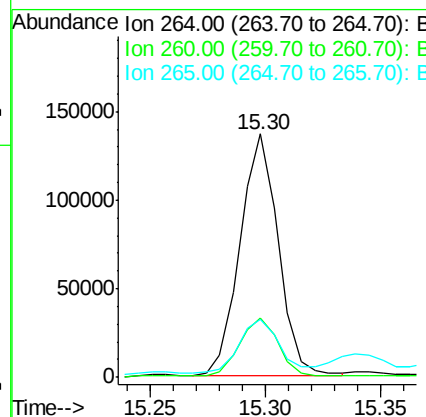
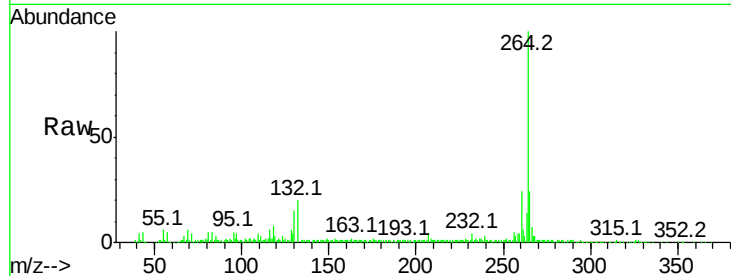
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampled :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	23.7	17.2	25.8

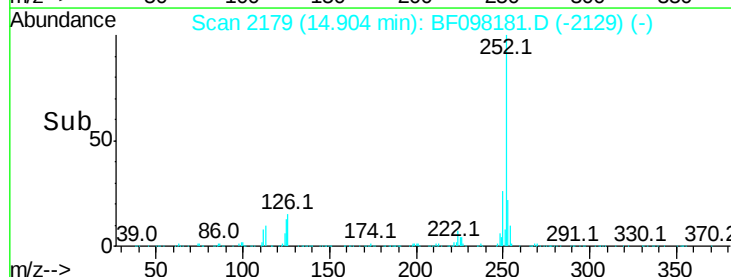
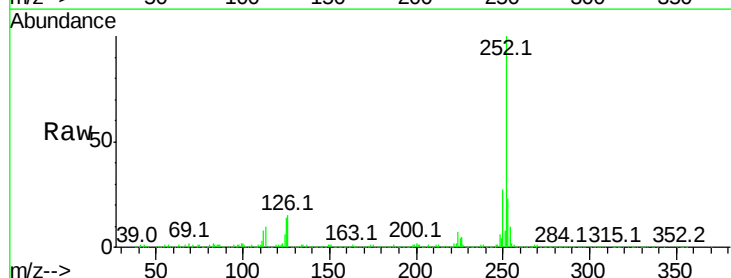
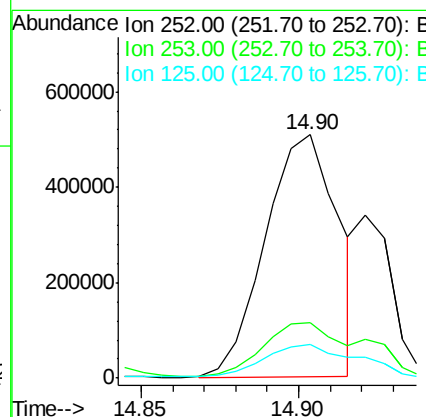
Manual Integrations
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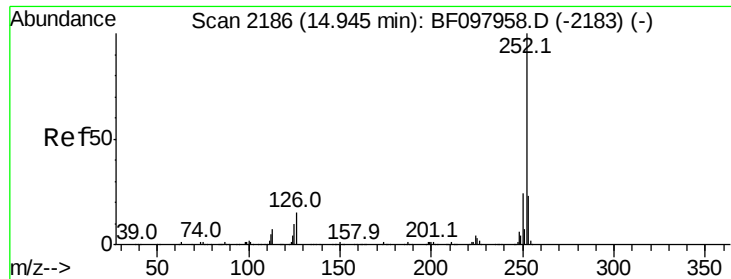
Sohil
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#87
Benzo(b)fluoranthene
Concen: 82.045 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	13.6	9.8	14.8





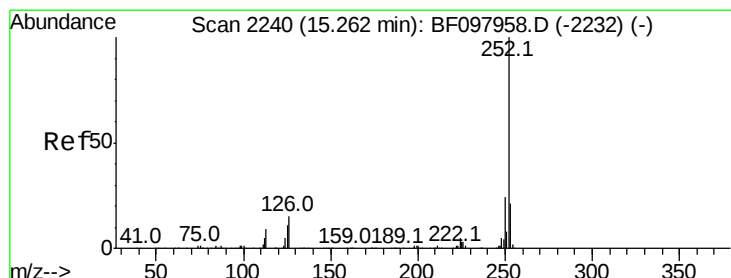
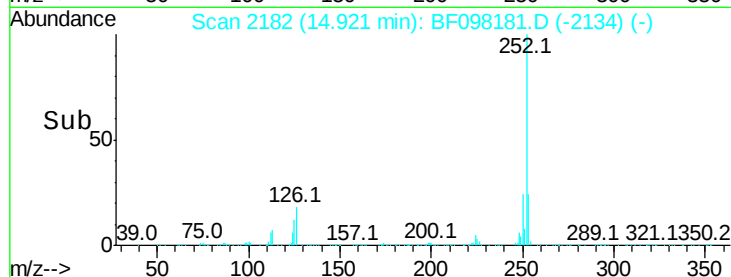
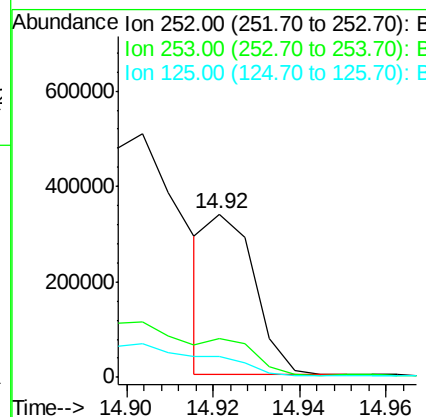
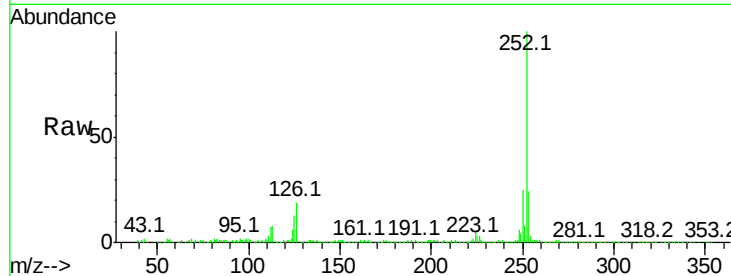
#88
Benzo(k)fluoranthene
Concen: 26.731 ng/mL
RT: 14.92 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.4	27.6
125	12.9	13.1	19.7

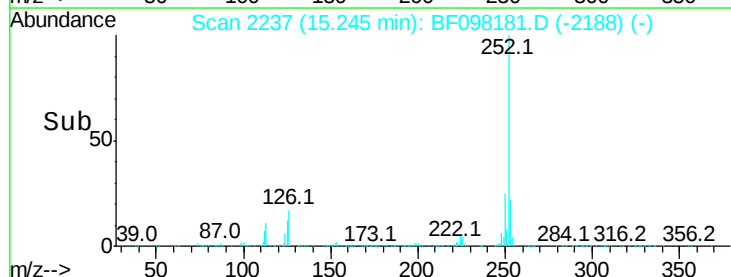
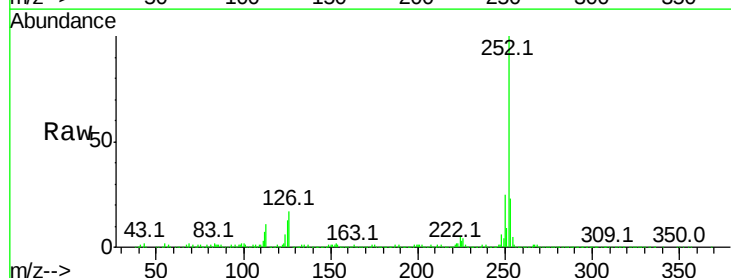
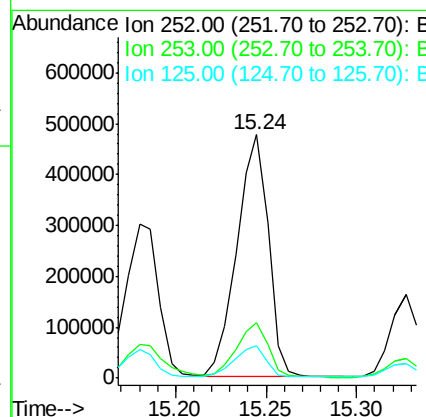
Manual Integrations
APPROVED

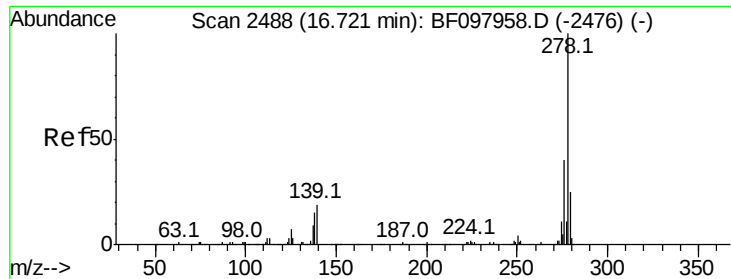
Sohil
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#89
Benzo(a)pyrene
Concen: 65.043 ng/mL
RT: 15.24 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	13.1	11.0	16.4





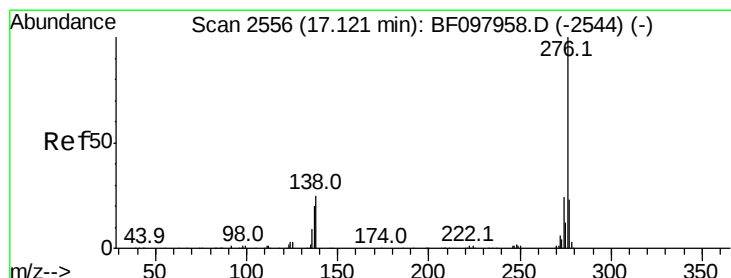
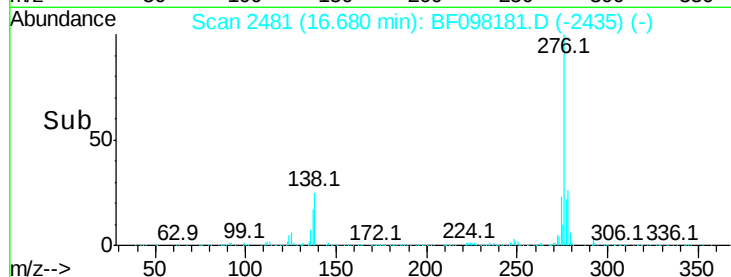
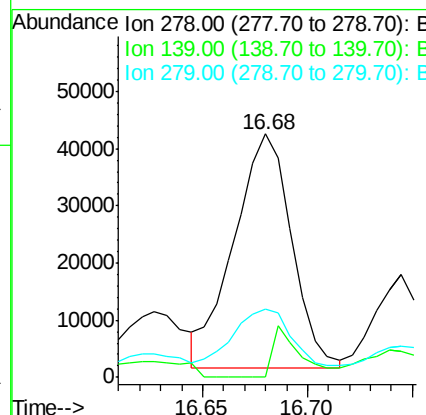
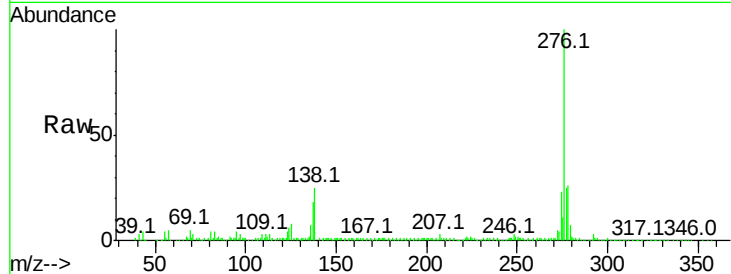
#90
Dibenzo(a,h)anthracene
Concen: 10.886 ng m
RT: 16.68 min Scan# 2481
Delta R.T. -0.03 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.8	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:13 PM



#91
Benzo(g,h,i)perylene
Concen: 41.117 ng
RT: 17.09 min Scan# 2551
Delta R.T. -0.02 min
Lab File: BF098181.D
Acq: 31 Aug 2017 3:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.6	28.0
138	26.0	25.4	38.0

