

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097820.D
 Acq On : 18 Aug 2017 7:53
 Operator : SJ/JU
 Sample : I4773-01DL 50X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-J10-ESWDL

Manual Integrations
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 8/18/2017 7:02:39 PM

Quant Time: Aug 18 08:35:29 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	127168	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	459599	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	159072	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	271078	20.00	ng	0.00
75) Chrysene-d12	13.93	240	281861	20.00	ng	0.00
86) Perylene-d12	15.36	264	199396	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	17668	2.11	ng	-0.02
7) Phenol-d6	6.39	99	24092	2.12	ng	-0.02
23) Nitrobenzene-d5	7.33	82	13923	1.65	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	2013	1.46	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	16385	1.51	ng	-0.01
78) Terphenyl-d14	12.88	244	12726	0.94	ng	-0.01

Target Compounds

						Qvalue
12) 1,3-Dichlorobenzene	6.72	146	35467	3.740	ng	# 93
13) 1,4-Dichlorobenzene	6.79	146	126840	13.150	ng	# 92
14) 1,2-Dichlorobenzene	6.95	146	90566	10.183	ng	97
30) 1,2,4-Trichlorobenzene	8.00	180	23461	3.475	ng	97
31) Naphthalene	8.09	128	1525821	63.949	ng	99
37) 2-Methylnaphthalene	8.77	142	907298	62.023	ng	98
45) 1,1'-Biphenyl	9.23	154	174358	12.020	ng	95
51) Acenaphthene	9.85	154	262836	24.760	ng	99
54) Dibenzofuran	10.02	168	216509	15.218	ng	# 85
57) Fluorene	10.36	166	225649	20.515	ng	95
70) Phenanthrene	11.32	178	732837	50.733	ng	100
71) Anthracene	11.37	178	139295	9.508	ng	99
72) Carbazole	11.52	167	28208	2.028	ng	# 90
74) Fluoranthene	12.51	202	367907	24.402	ng	98
77) Pyrene	12.73	202	319595	13.863	ng	98
80) Benzo(a)anthracene	13.92	228	83391	4.936	ng	94
82) Chrysene	13.96	228	72063	4.288	ng	97
87) Benzo(b)fluoranthene	14.94	252	54554m	4.341	ng	
89) Benzo(a)pyrene	15.30	252	29688	2.668	ng	98
91) Benzo(a,h,i)perylene	17.17	276	21073	2.230	ng	94

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

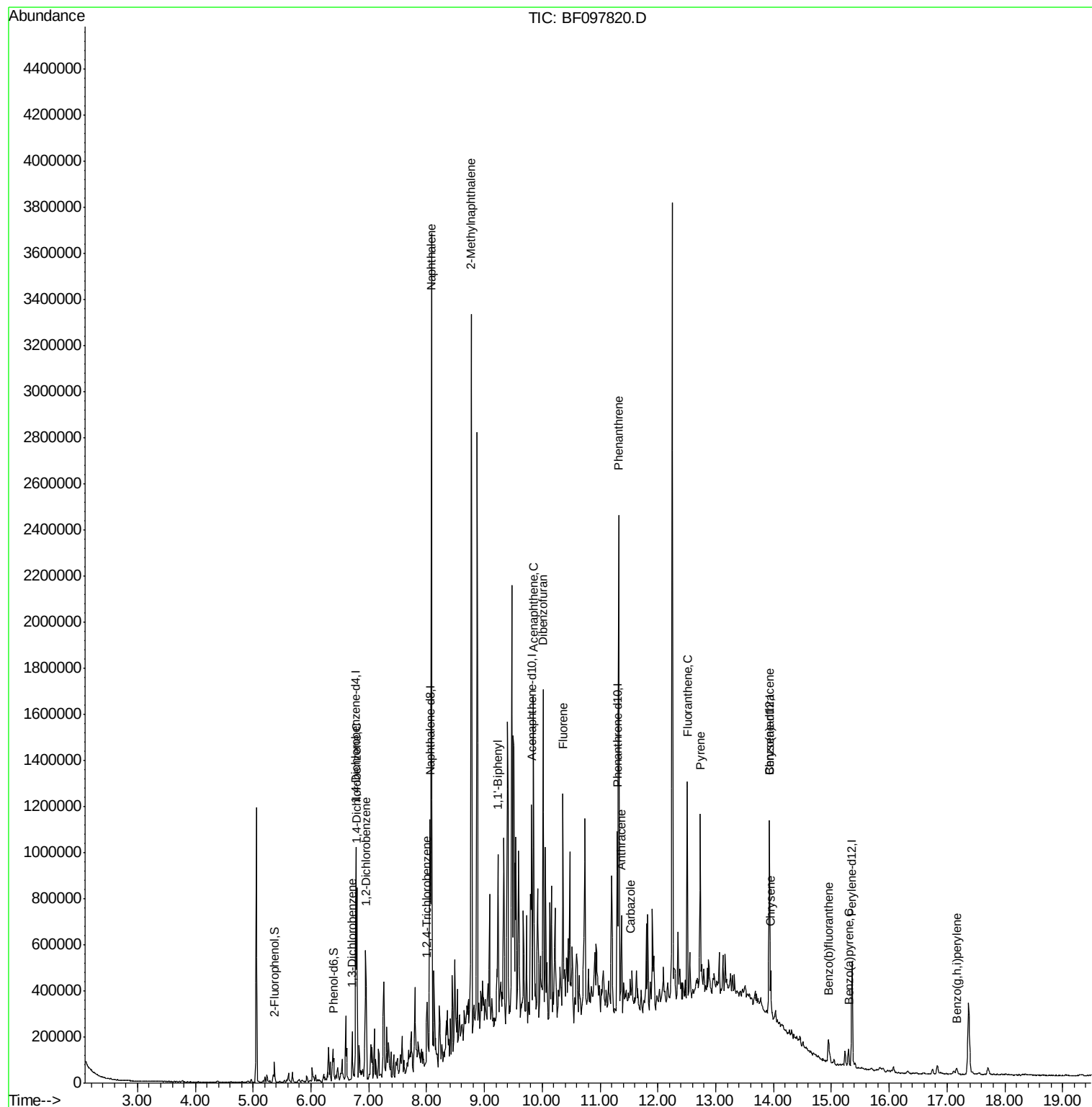
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
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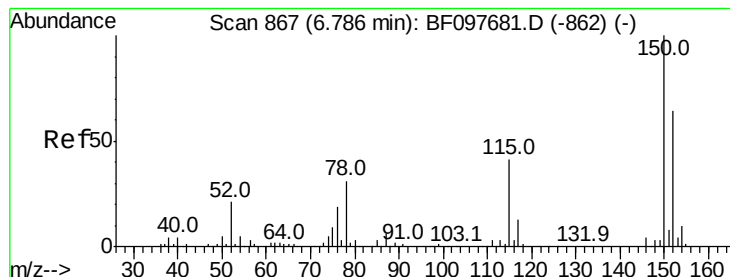
Instrument :
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E2-J10-ESWDL

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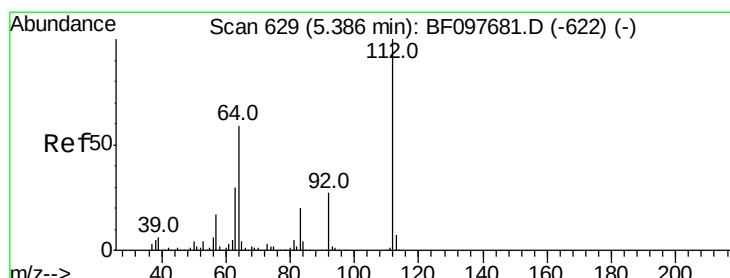
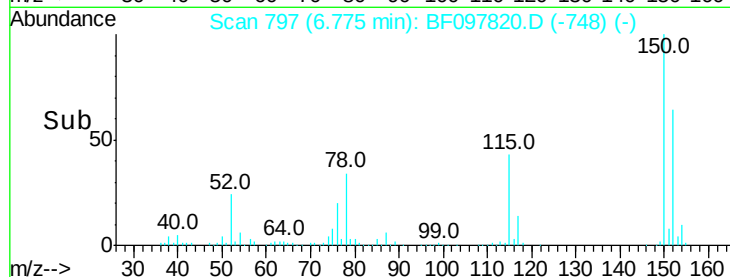
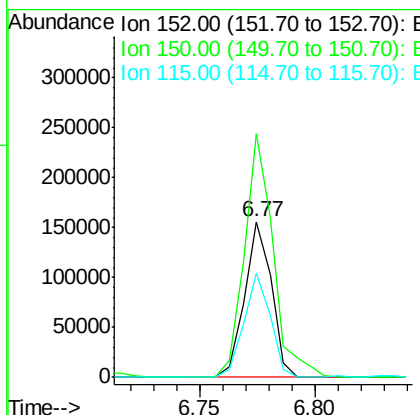
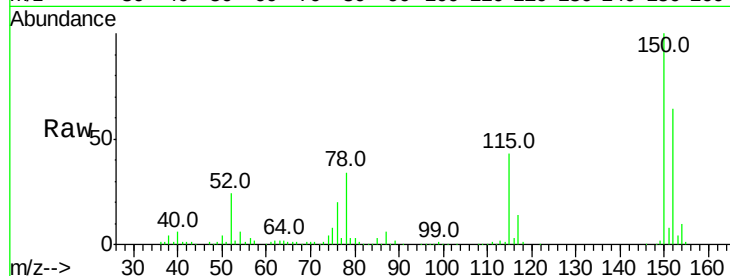
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 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.77 min Scan# 797
 Delta R.T. -0.01 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-J10-ESWDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	126.2	189.2
115	66.6	52.2	78.2

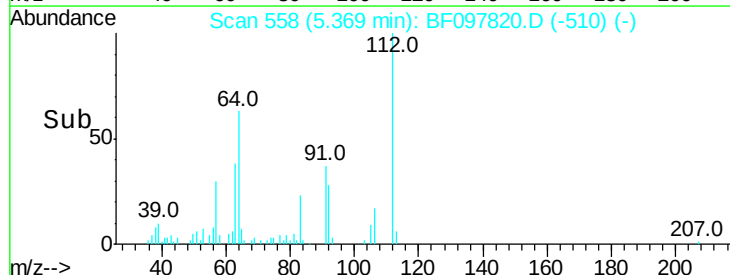
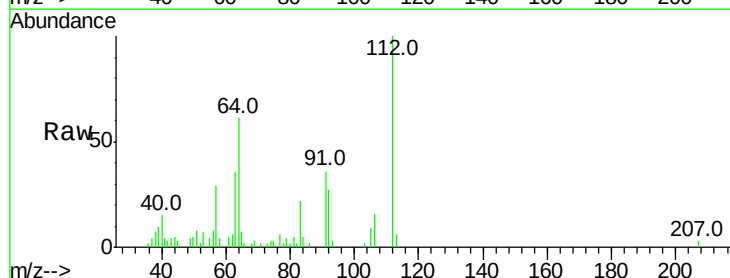
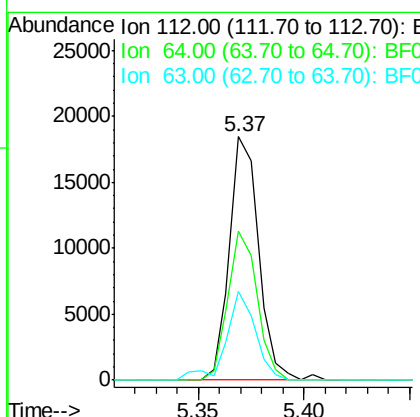
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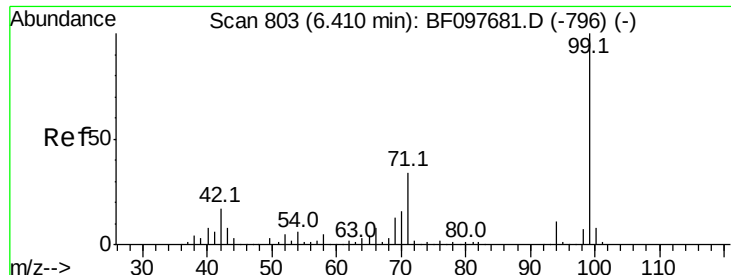
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#5
 2-Fluorophenol
 Concen: 2.113 ng
 RT: 5.37 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.0	46.0	69.0
63	36.2	23.4	35.0





#7

Phenol-d6

Concen: 2.121 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

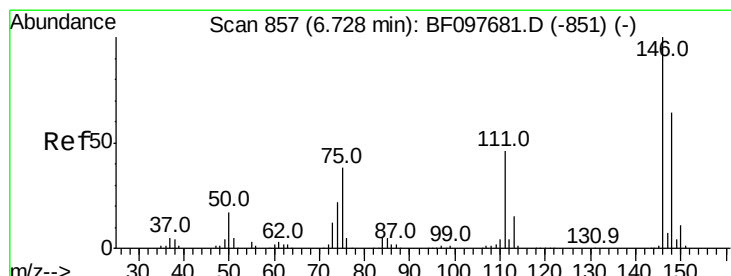
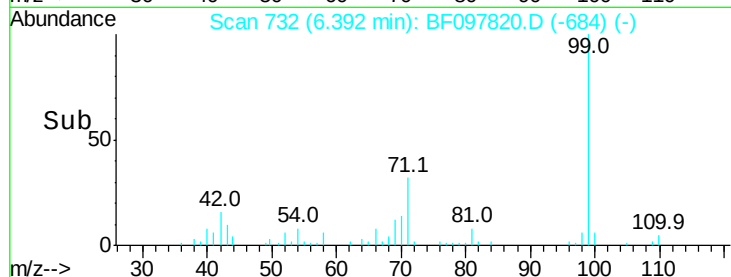
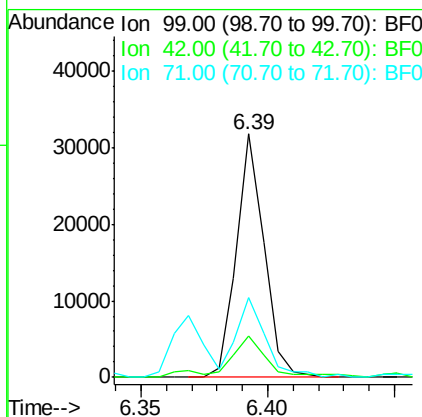
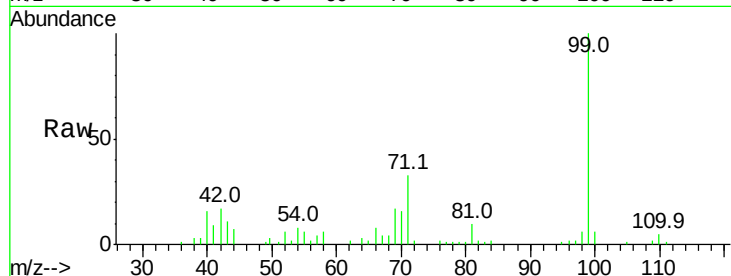
ClientSampleId :

E2-J10-ESWDL

Tot Ion:	99	Resp:	24092
Ion Ratio	Lower	Upper	
99	100		
42	17.1	13.5	20.3
71	32.7	24.5	36.7

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#12

1,3-Dichlorobenzene

Concen: 3.740 ng

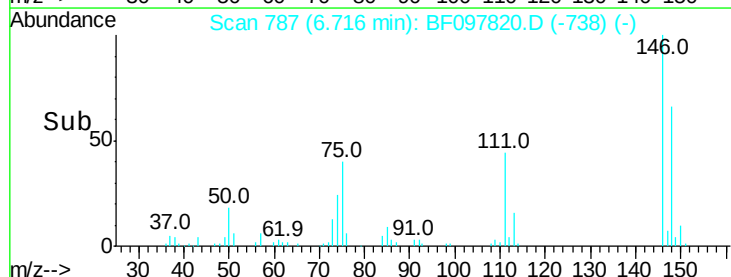
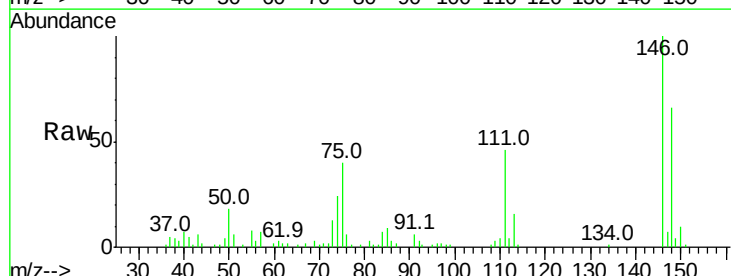
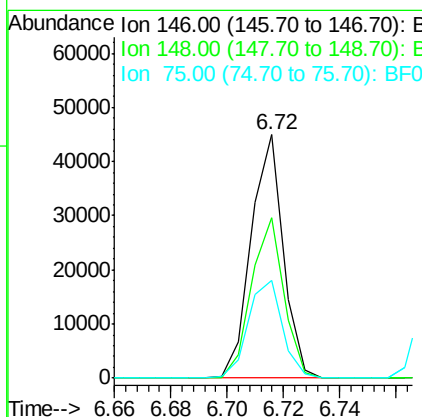
RT: 6.72 min Scan# 787

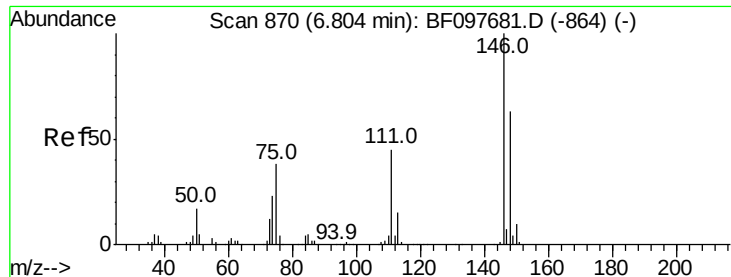
Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Tgt Ion:	146	Resp:	35467
Ion Ratio	Lower	Upper	
146	100		
148	65.7	51.8	77.6
75	40.1	23.1	34.7#





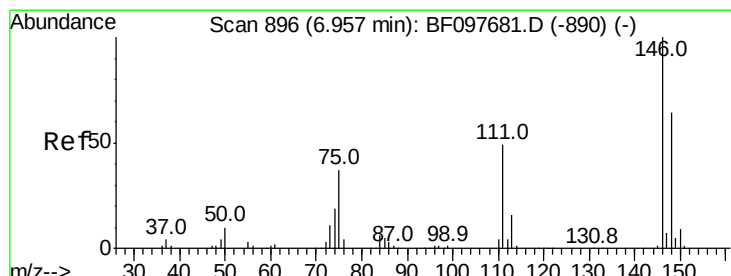
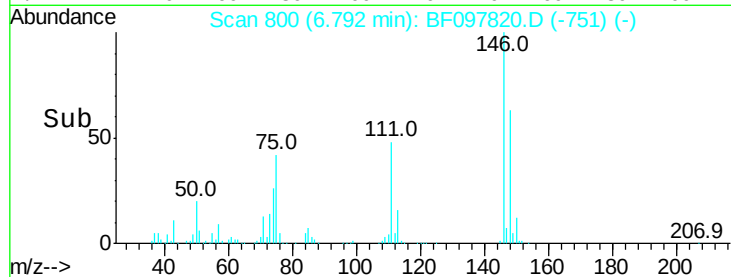
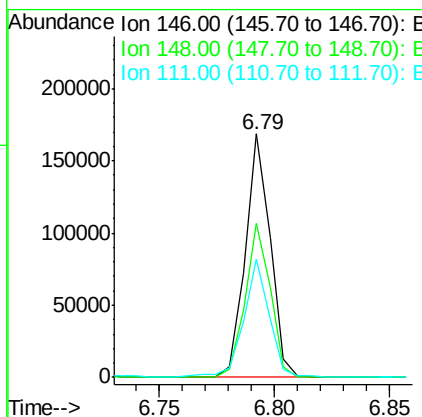
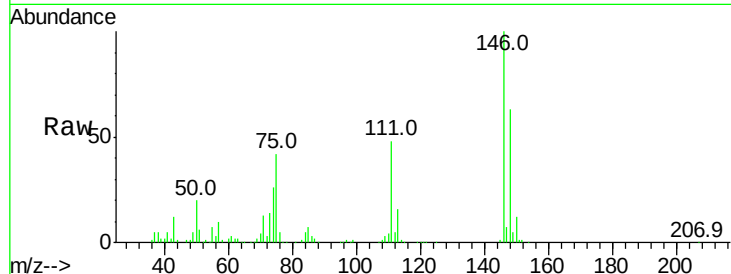
#13
1,4-Dichlorobenzene
Concen: 13.150 ng
RT: 6.79 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.1	52.2	78.2
111	48.4	30.3	45.5

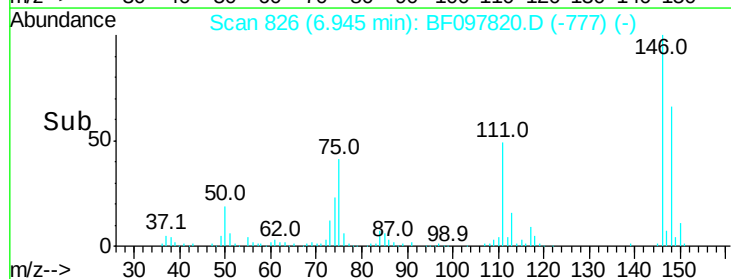
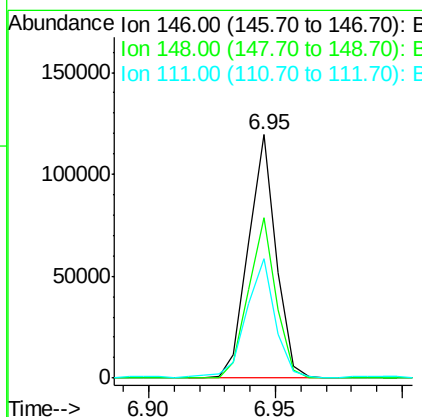
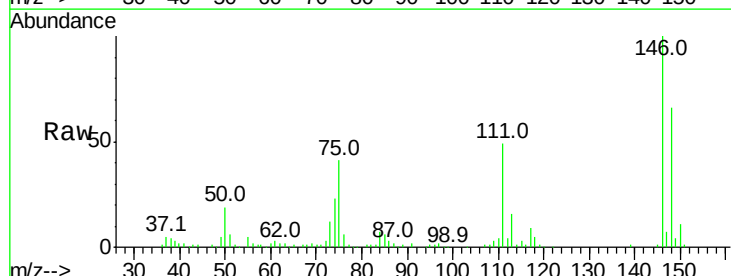
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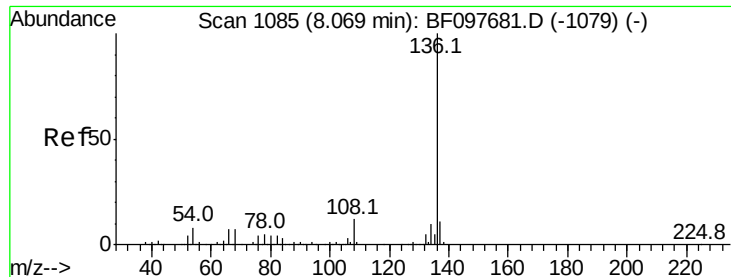
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#14
1,2-Dichlorobenzene
Concen: 10.183 ng
RT: 6.95 min Scan# 826
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Lower	Upper
146	100		
148	66.1	50.4	75.6
111	49.1	38.2	57.4





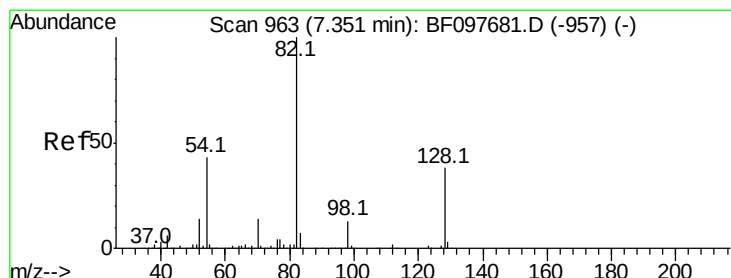
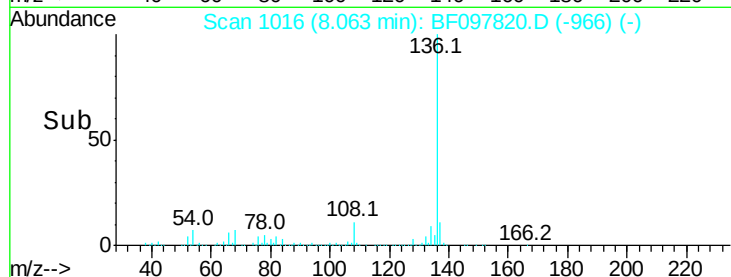
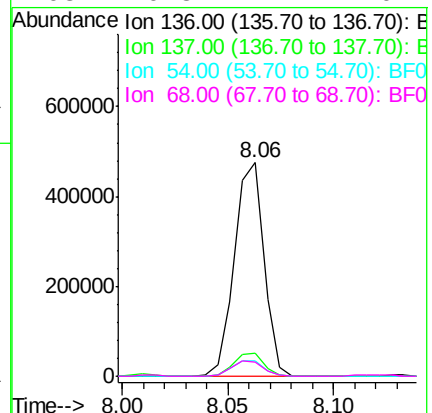
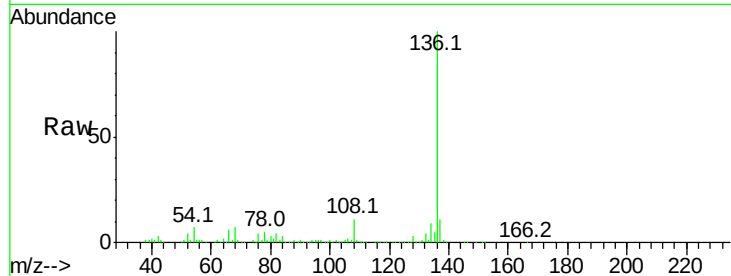
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.06 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.8	8.5	12.7
54	7.2	4.9	7.3
68	6.8	4.1	6.1#

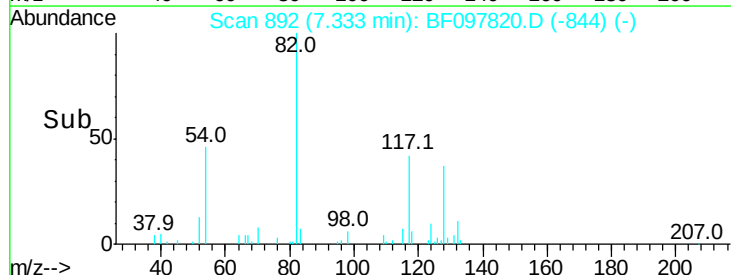
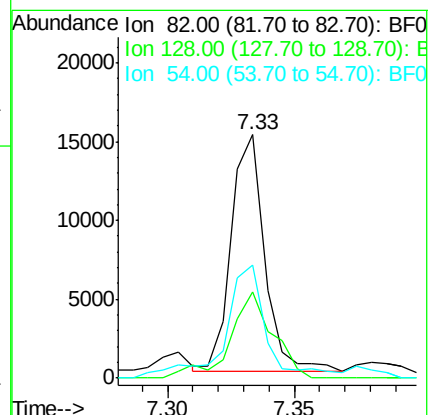
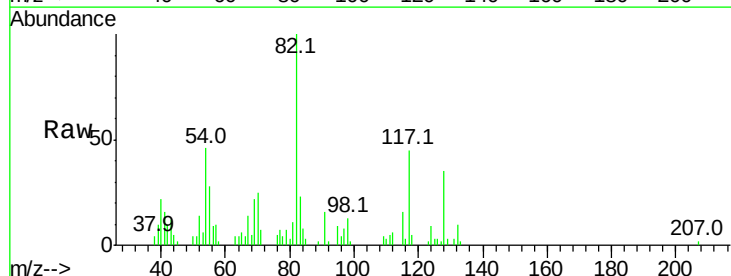
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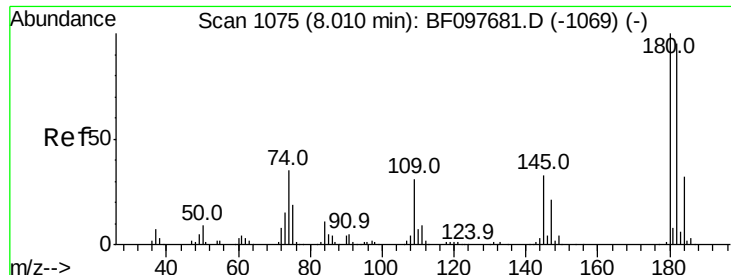
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#23
Nitrobenzene-d5
Concen: 1.646 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.02 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	35.3	34.0	51.0
54	46.5	42.2	63.2





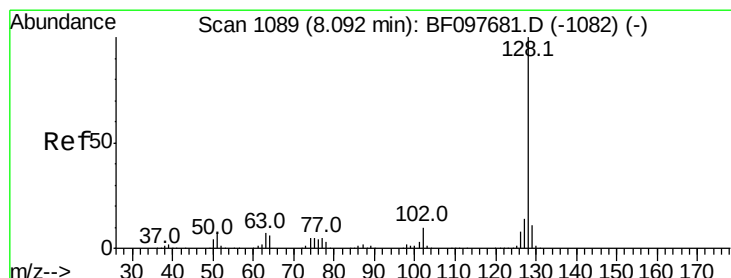
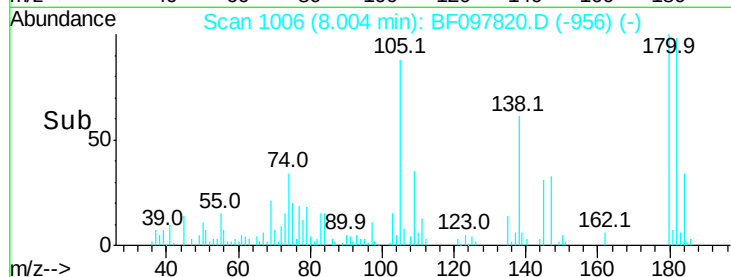
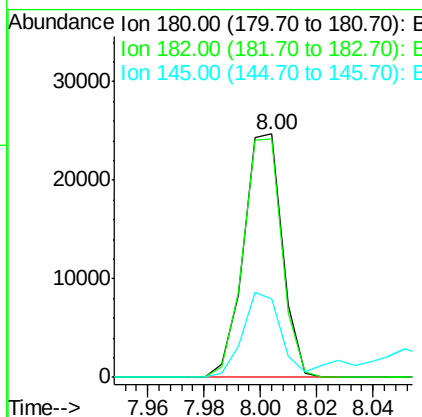
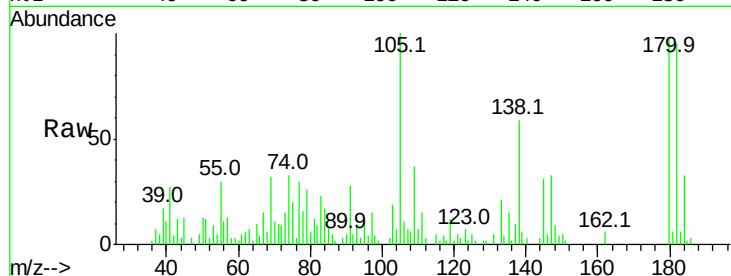
#30
 1,2,4-Trichlorobenzene
 Concen: 3.475 ng
 RT: 8.00 min Scan# 1006
 Delta R.T. -0.01 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-J10-ESWDL

Tot Ion:	180	Resp:	23461
Ion Ratio	Lower	Upper	
180	100		
182	97.8	75.8	113.6
145	32.3	25.3	37.9

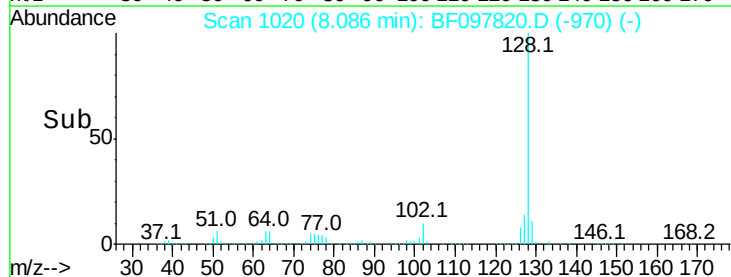
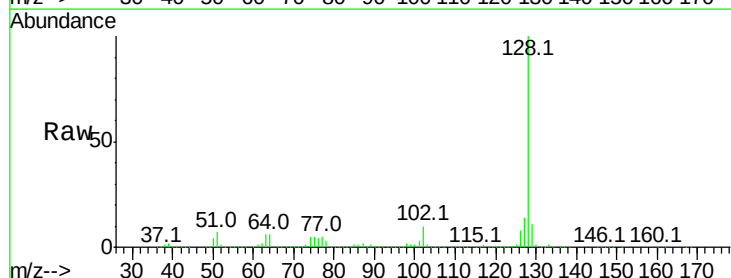
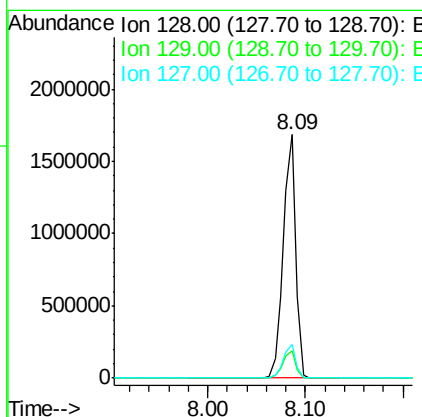
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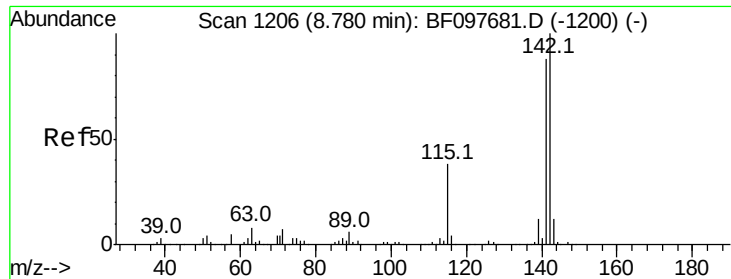
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#31
 Naphthalene
 Concen: 63.949 ng
 RT: 8.09 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Tgt Ion:	128	Resp:	1525821
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.0	13.6
127	13.9	10.8	16.2





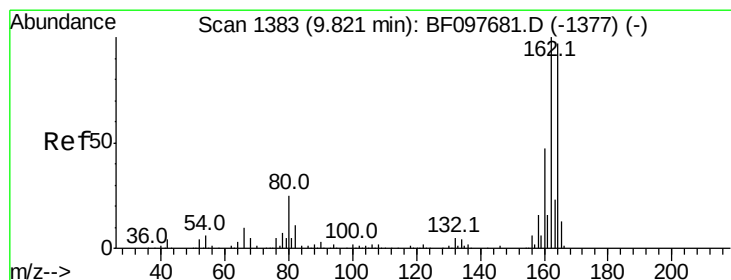
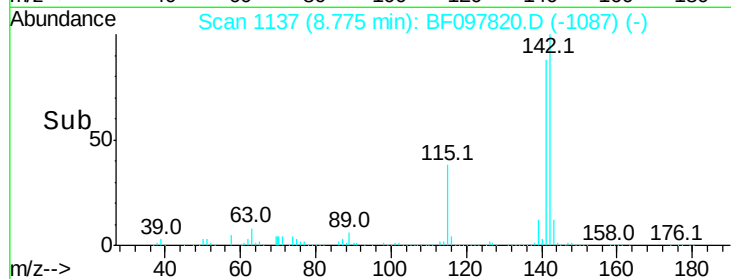
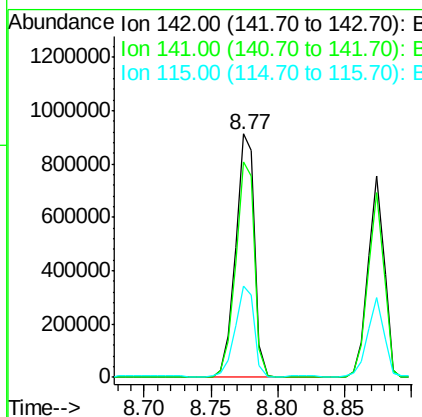
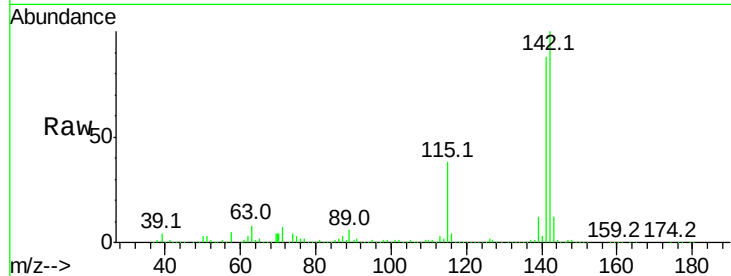
#37
 2-Methylnaphthalene
 Concen: 62.023 ng
 RT: 8.77 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Instrument :
 BNA_F
 ClientSampleId :
 E2-J10-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	907298		
141	88.3		71.3	106.9
115	37.7		27.1	40.7

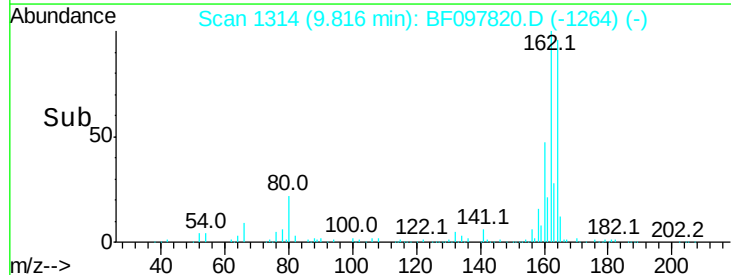
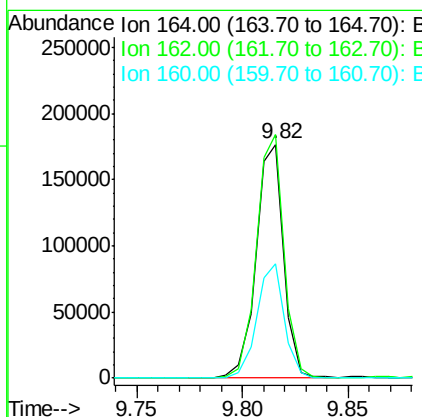
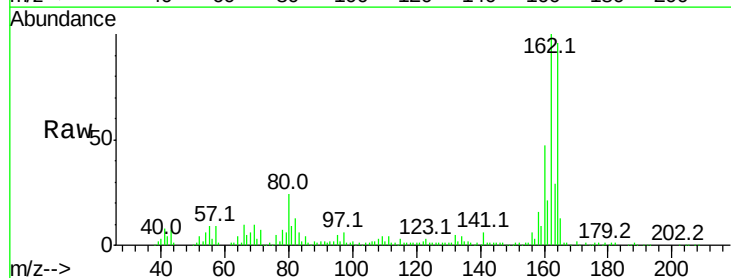
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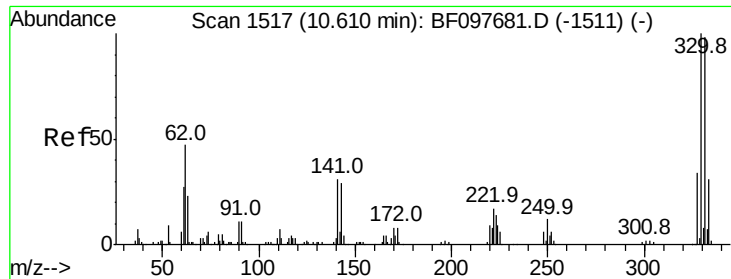
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: BF097820.D
 Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	159072		
162	104.3		82.6	123.8
160	49.1		36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 1.458 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

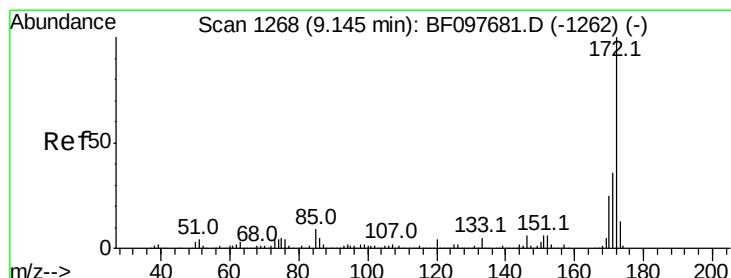
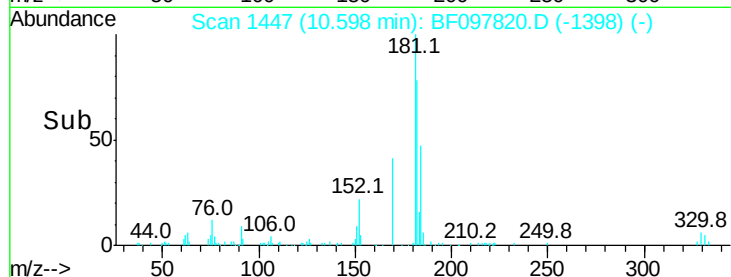
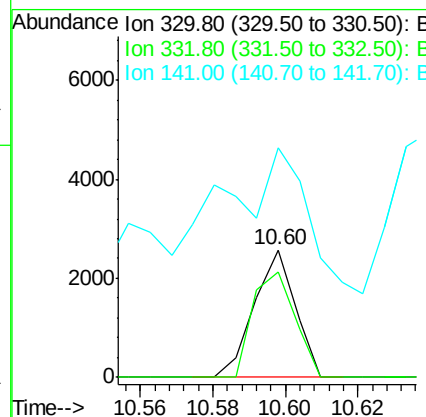
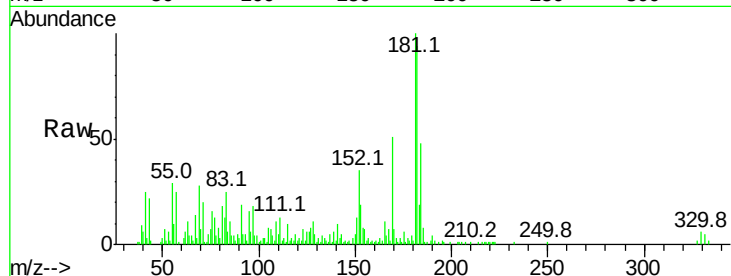
ClientSampleId :

E2-J10-ESWDL

Tot Ion:	330	Resp:	2013
Ion Ratio	Lower	Upper	
330	100		
332	84.7	76.6	115.0
141	232.7	31.4	47.2#

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#44

2-Fluorobiphenyl

Concen: 1.513 ng

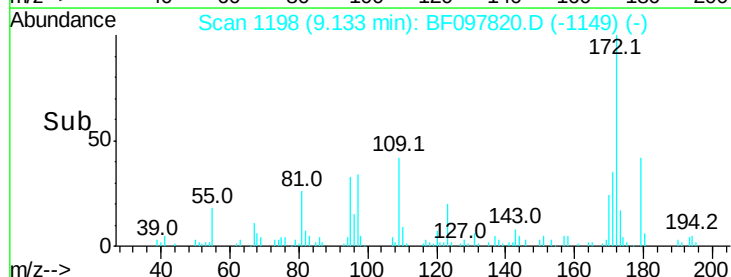
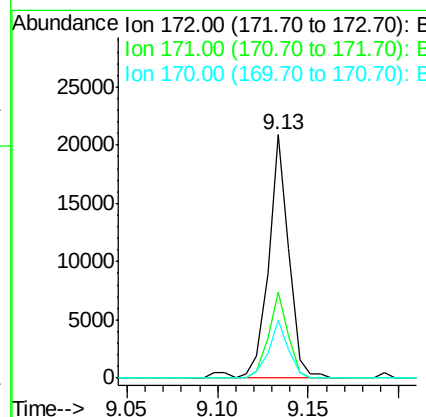
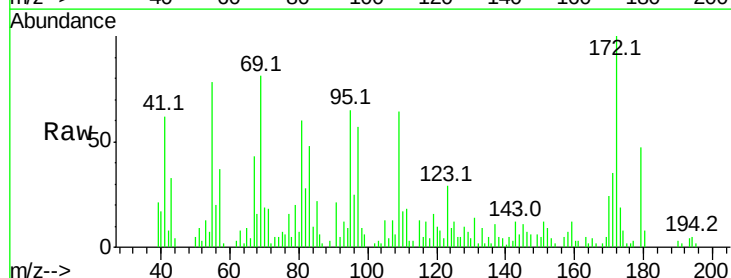
RT: 9.13 min Scan# 1198

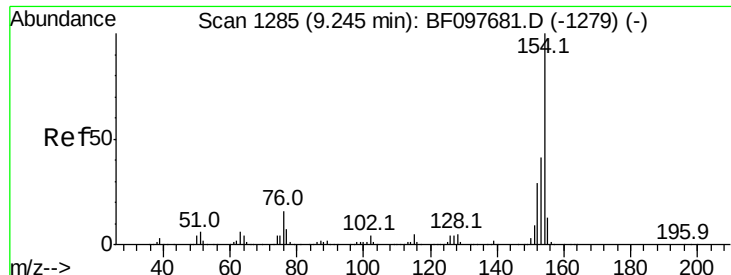
Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Tgt Ion:	172	Resp:	16385
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.6	44.4
170	23.9	19.8	29.8





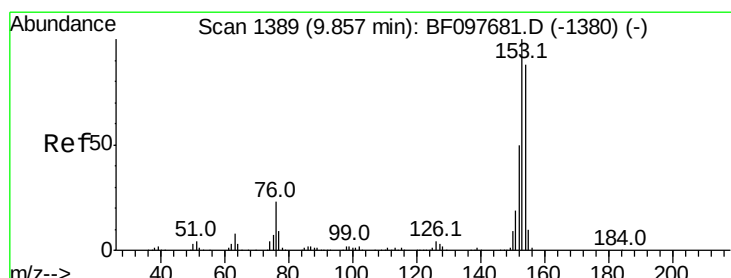
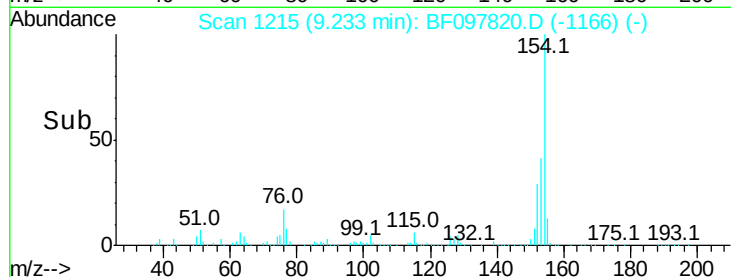
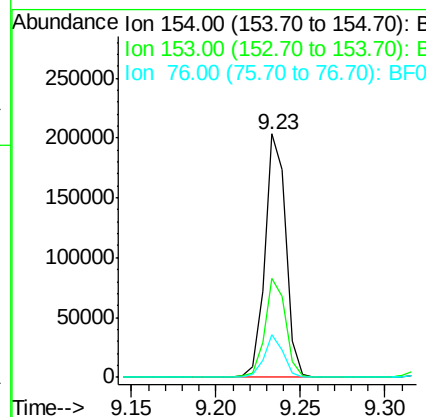
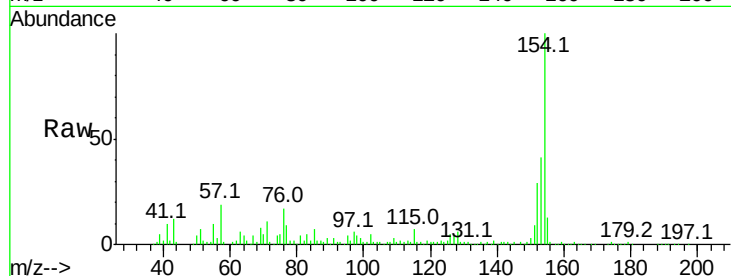
#45
1,1'-Biphenyl
Concen: 12.020 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampled :
E2-J10-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.7	21.2	61.2	
76	17.4	0.0	29.9	

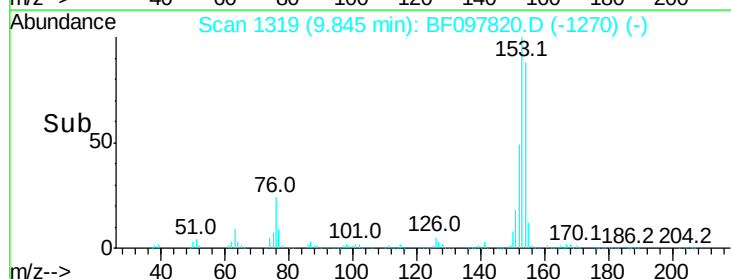
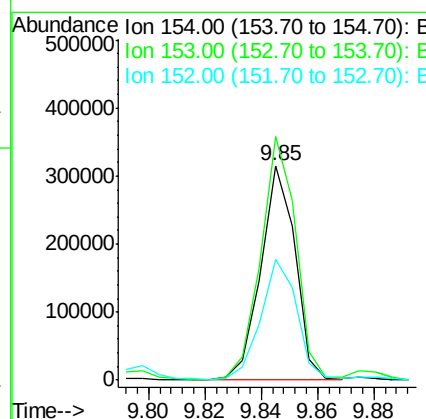
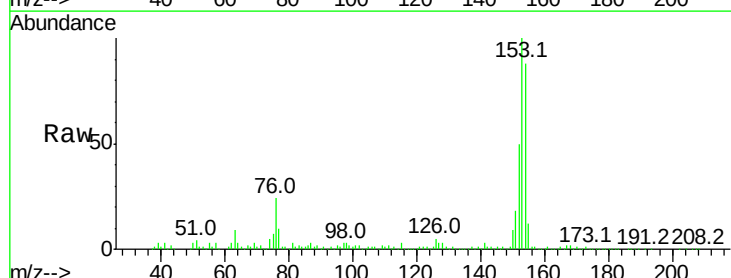
Manual Integrations
APPROVED

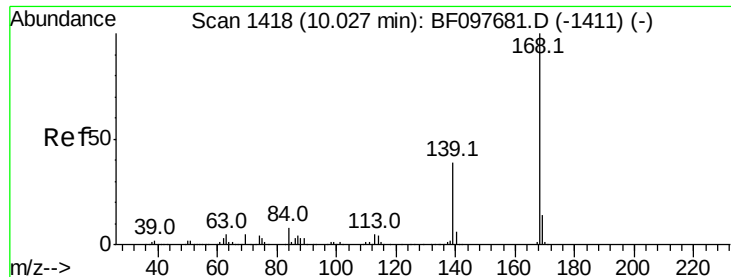
Sohil
8/18/2017 7:02:39 PM



#51
Acenaphthene
Concen: 24.760 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.6	90.5	135.7	
152	56.4	43.6	65.4	





#54

Dibenzofuran

Concen: 15.218 ng

RT: 10.02 min Scan# 1348

Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

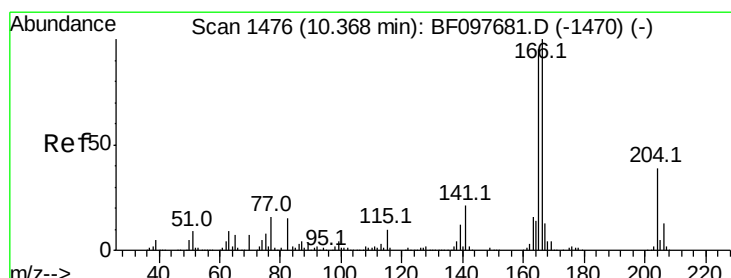
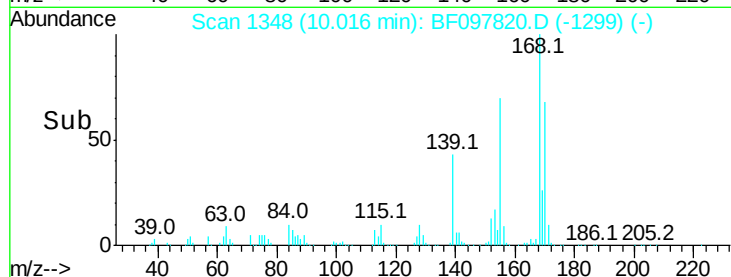
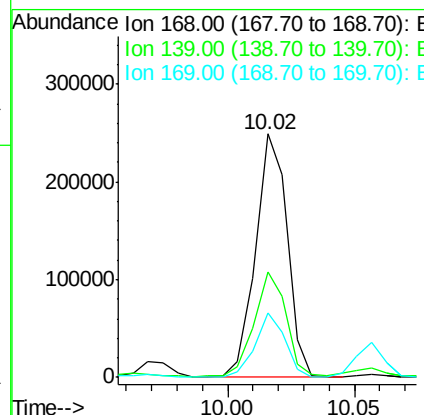
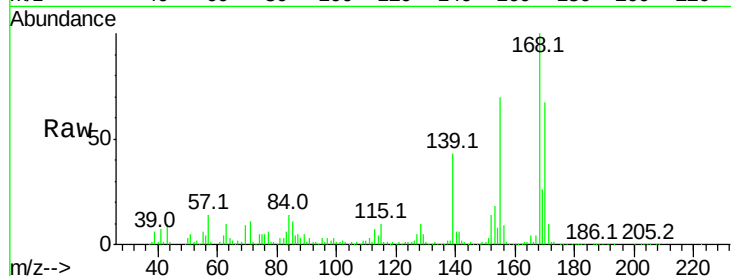
ClientSampled :

E2-J10-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
168	100	216509		
139	43.3		30.6	45.8
169	26.2		10.8	16.2#

Manual Integrations
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#57

Fluorene

Concen: 20.515 ng

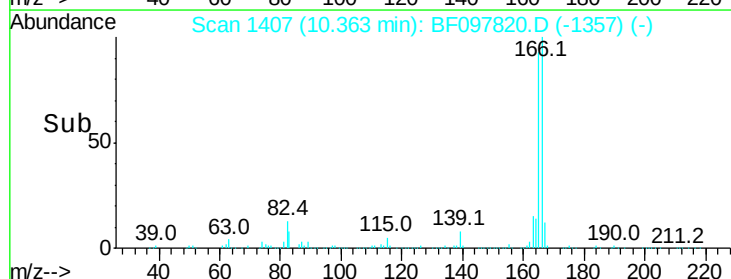
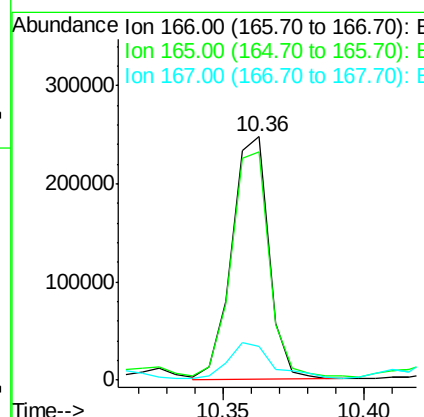
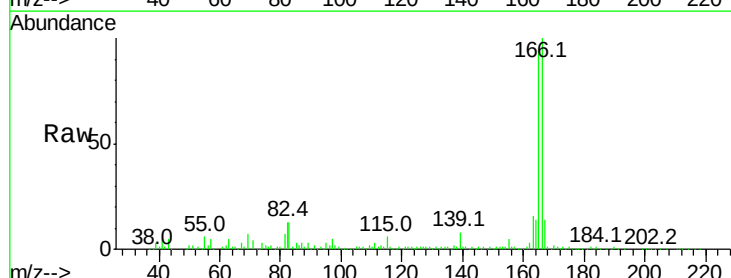
RT: 10.36 min Scan# 1407

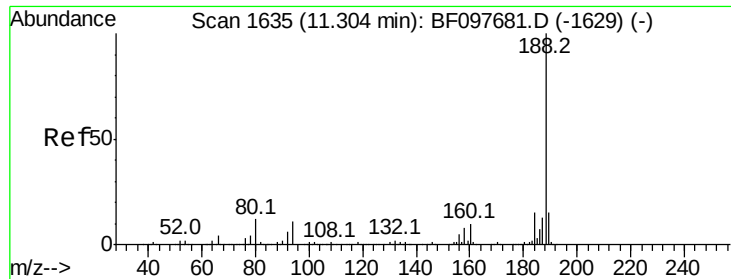
Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	225649		
165	93.5		78.8	118.2
167	13.9		10.6	16.0





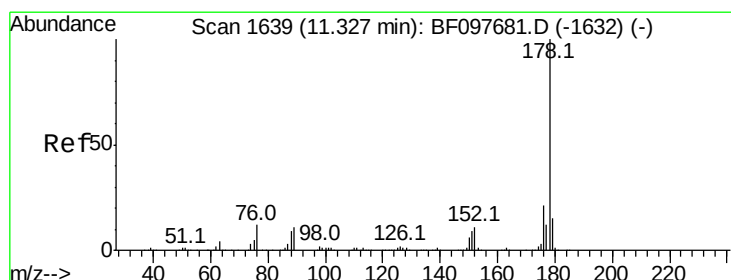
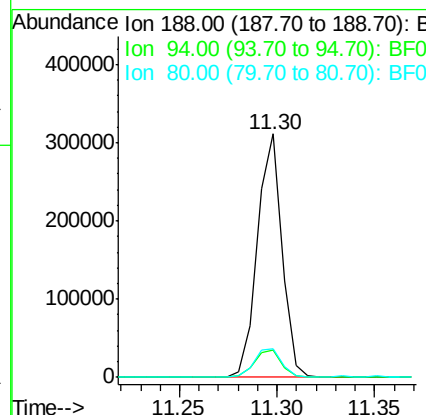
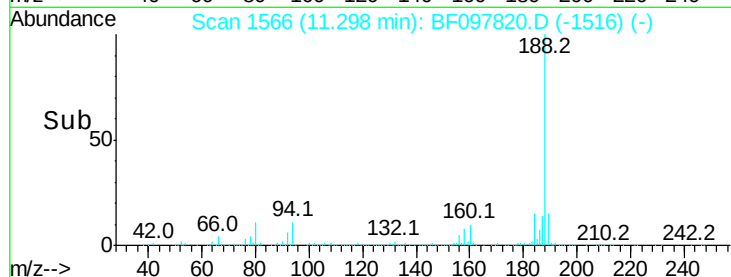
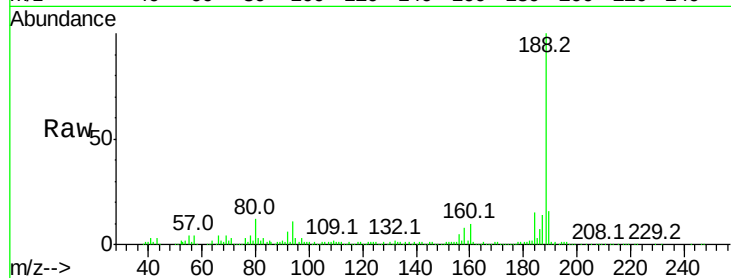
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	271078		
94	11.2		9.4	14.2
80	11.6		10.2	15.2

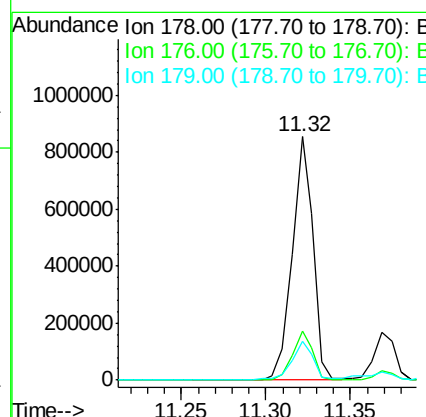
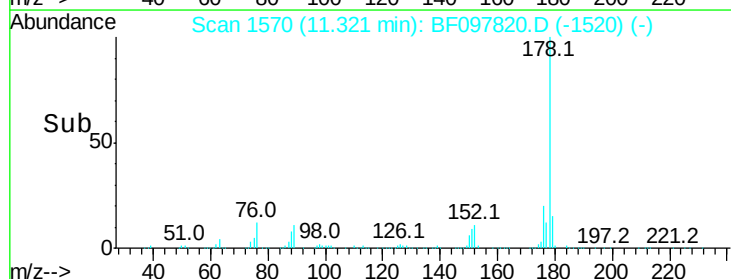
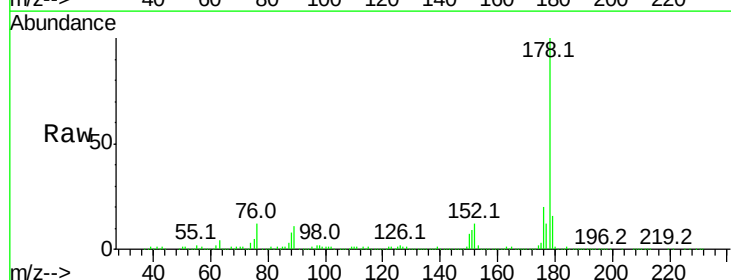
Manual Integrations
APPROVED

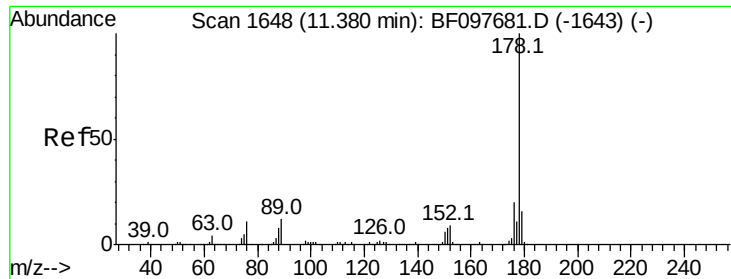
Sohil
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#70
Phenanthrene
Concen: 50.733 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	732837		
176	20.0		16.2	24.4
179	15.8		12.6	19.0





#71

Anthracene

Concen: 9.508 ng

RT: 11.37 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

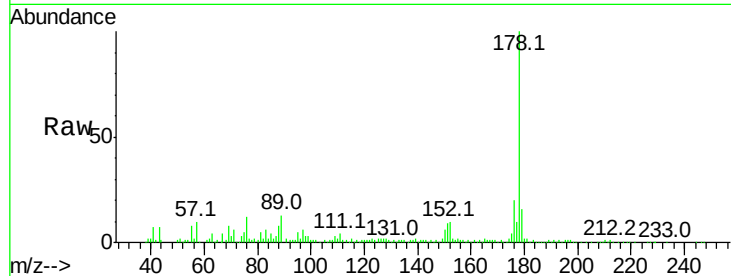
ClientSampleId :

E2-J10-ESWDL

Tot Ion:	178	Resp:	139295
Ion Ratio	Lower	Upper	
178	100		
176	20.1	15.8	23.8
179	16.1	12.7	19.1

Manual Integrations
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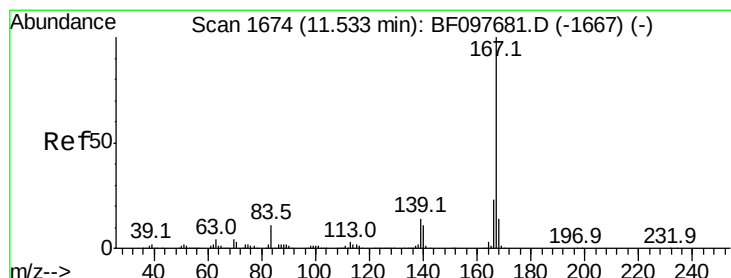
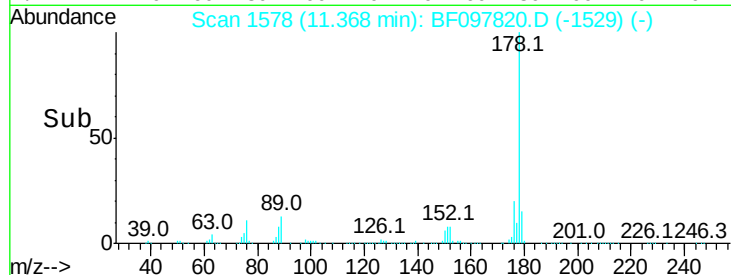
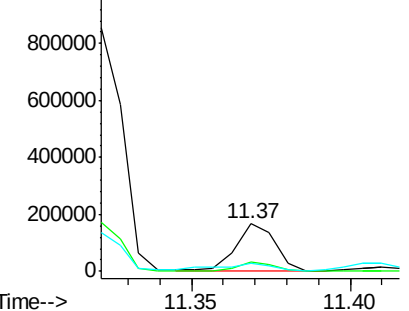
Sohil
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.028 ng

RT: 11.52 min Scan# 1604

Delta R.T. -0.01 min

Lab File: BF097820.D

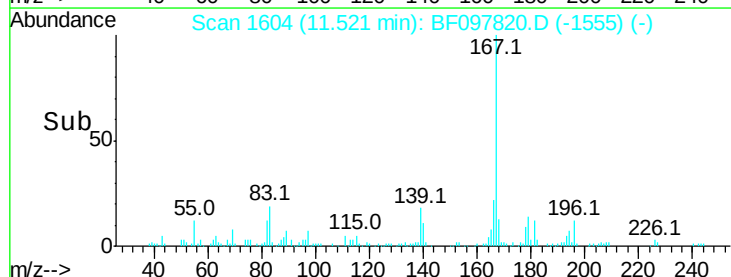
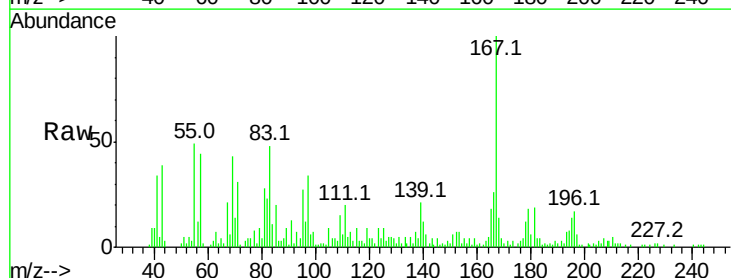
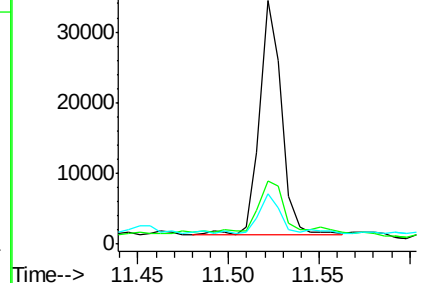
Acq: 18 Aug 2017 7:53

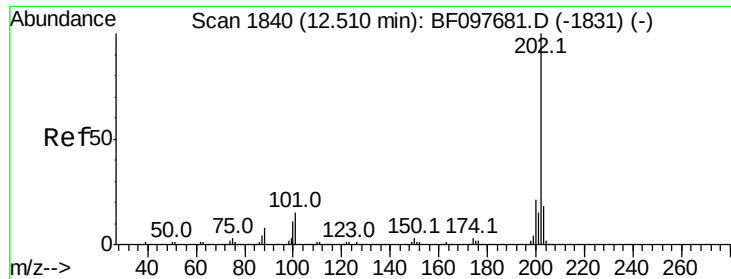
Tgt Ion:	167	Resp:	28208
Ion Ratio	Lower	Upper	
167	100		
166	26.0	18.1	27.1
139	20.7	11.7	17.5#

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: 24.402 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

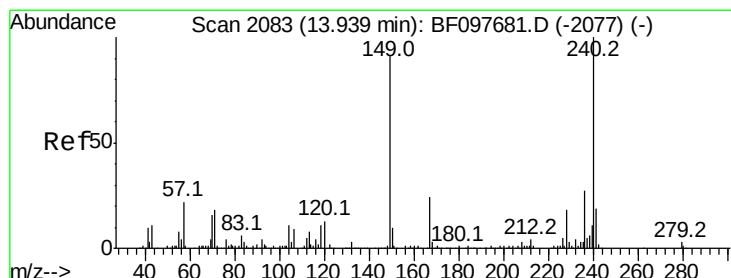
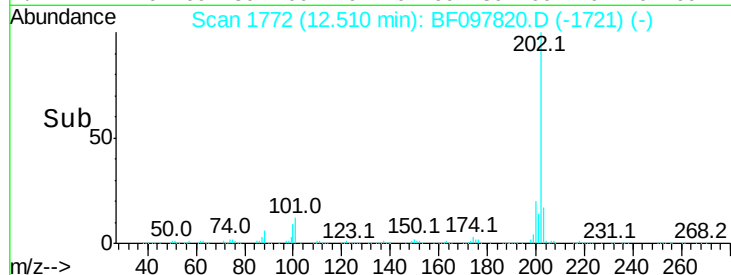
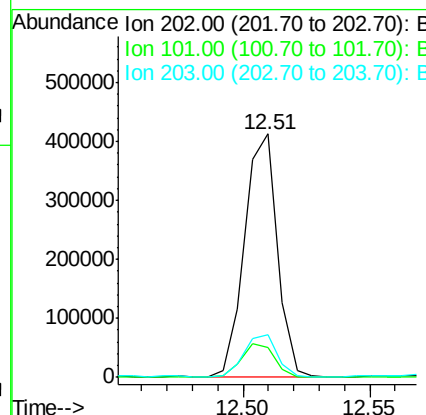
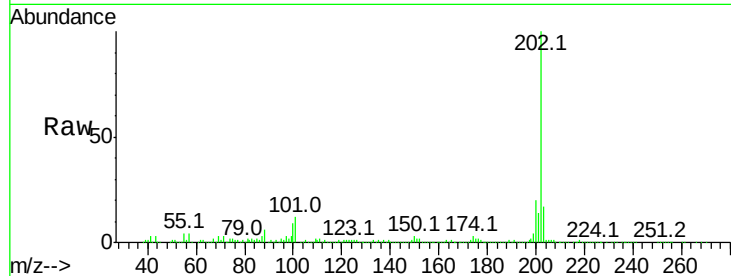
ClientSampled :

E2-J10-ESWDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.3	0.0	33.2
203	17.4	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

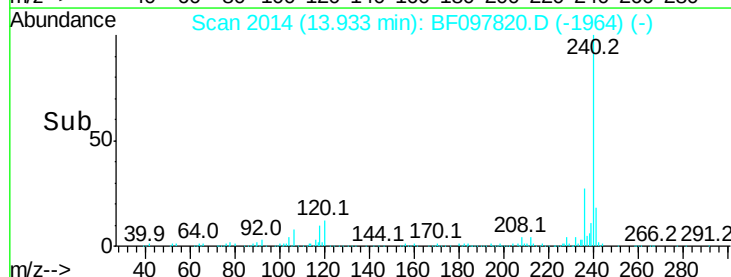
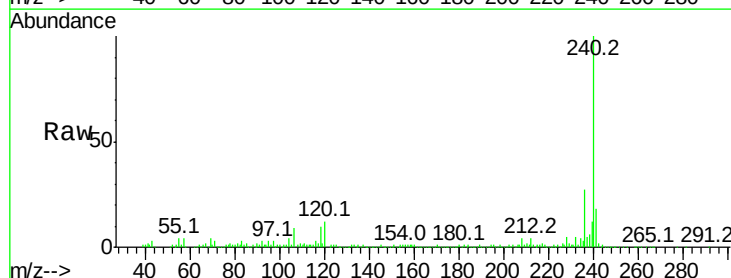
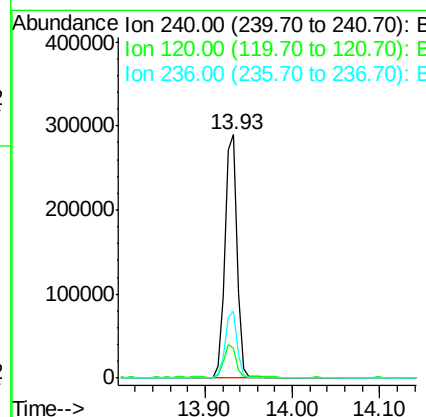
RT: 13.93 min Scan# 2014

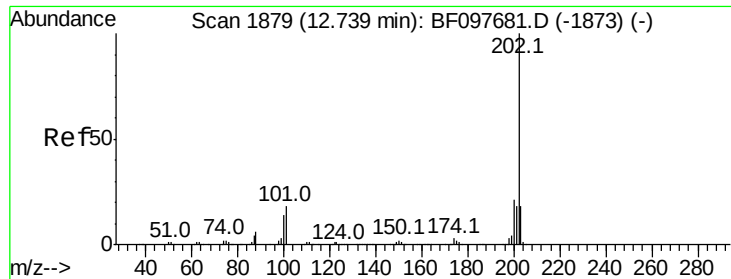
Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	12.3	5.8	8.8#
236	27.4	20.5	30.7





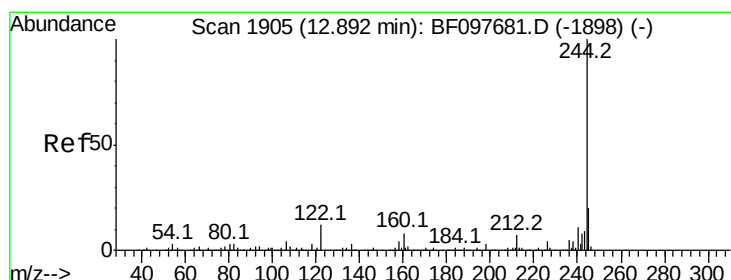
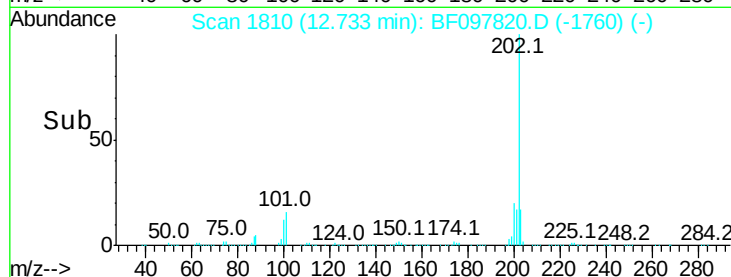
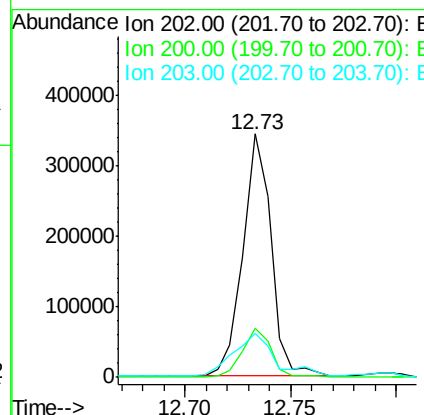
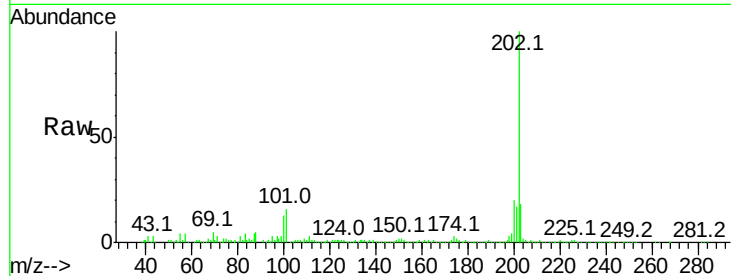
#77
Pvrene
Concen: 13.863 ng
RT: 12.73 min Scan# 1810
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.0	17.6	26.4
203	18.2	14.4	21.6

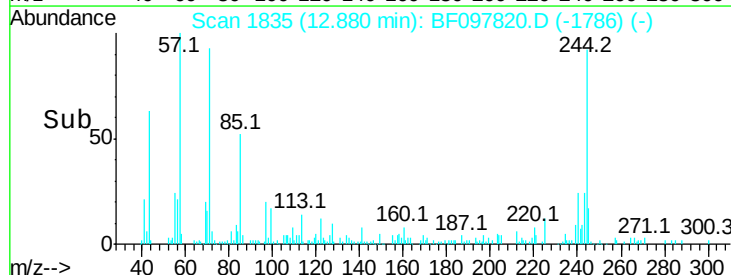
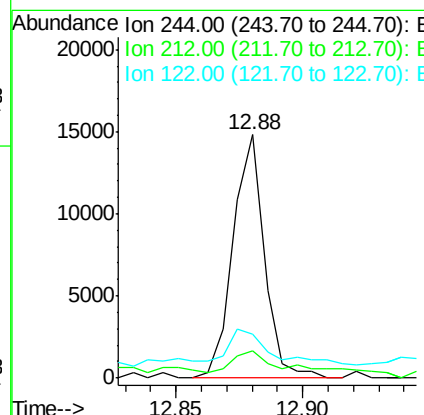
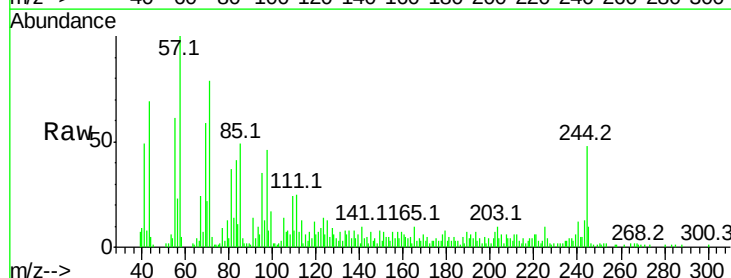
Manual Integrations
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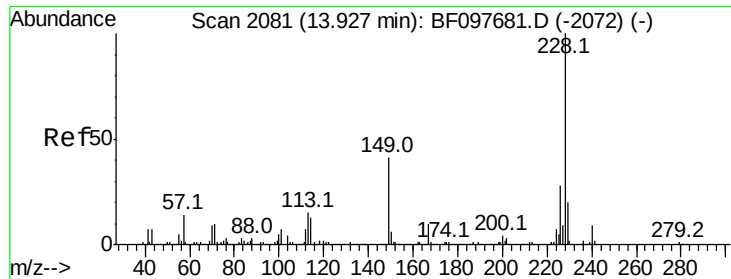
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#78
Terphenyl-d14
Concen: 0.942 ng
RT: 12.88 min Scan# 1835
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	11.4	6.0	9.0#
122	18.2	10.3	15.5#





#80

Benzo(a)anthracene

Concen: 4.936 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Instrument :

BNA_F

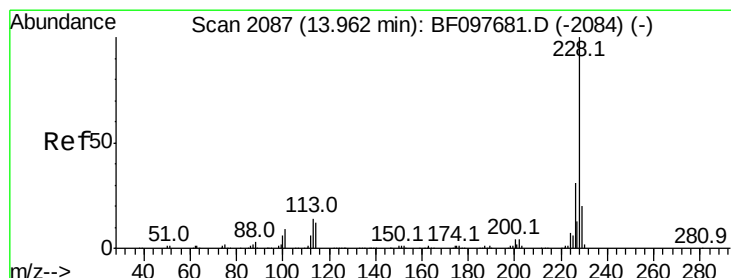
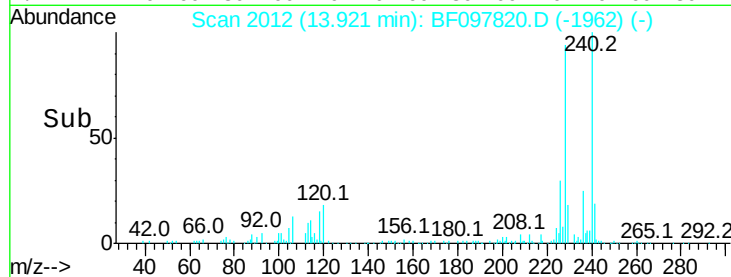
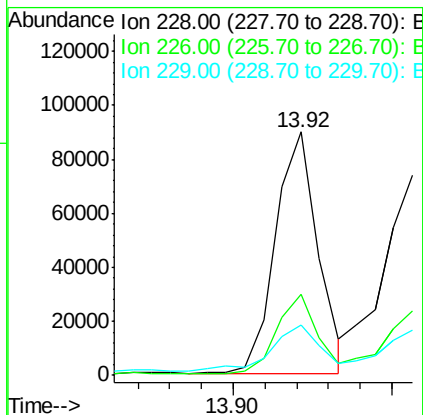
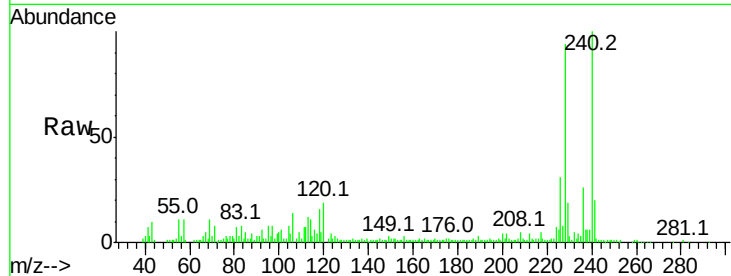
ClientSampleId :

E2-J10-ESWDL

Tot Ion:228	Resp:	83391
Ion Ratio	Lower	Upper
228 100		
226 33.3	22.6	33.8
229 20.6	16.3	24.5

Manual Integrations
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#82

Chrysene

Concen: 4.288 ng

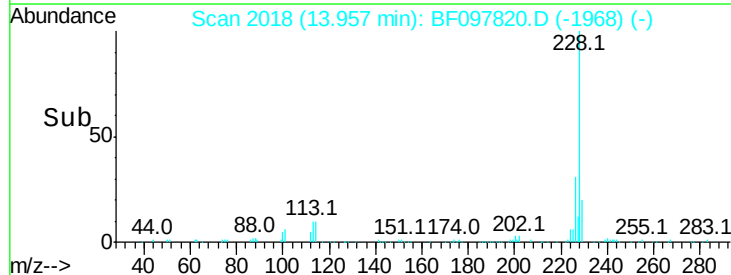
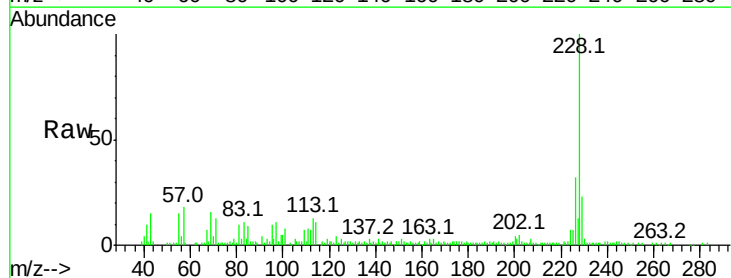
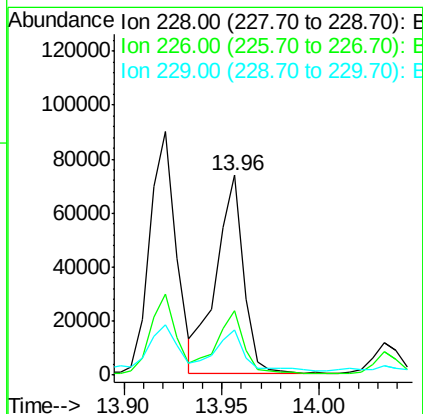
RT: 13.96 min Scan# 2018

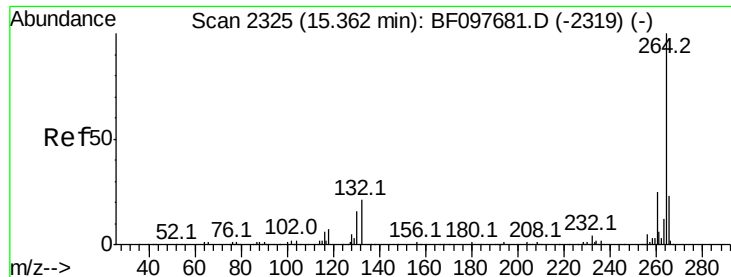
Delta R.T. -0.01 min

Lab File: BF097820.D

Acq: 18 Aug 2017 7:53

Tgt Ion:228	Resp:	72063
Ion Ratio	Lower	Upper
228 100		
226 32.0	24.9	37.3
229 22.6	15.8	23.6





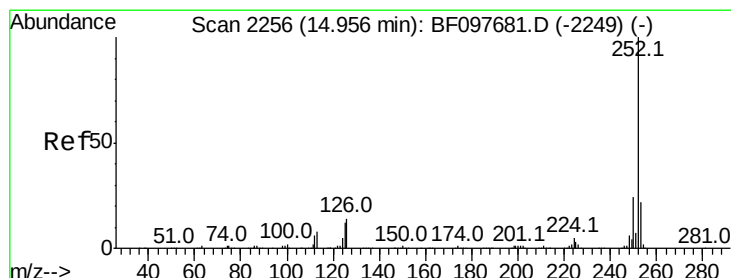
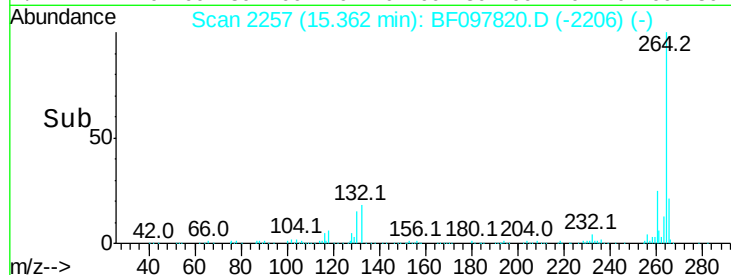
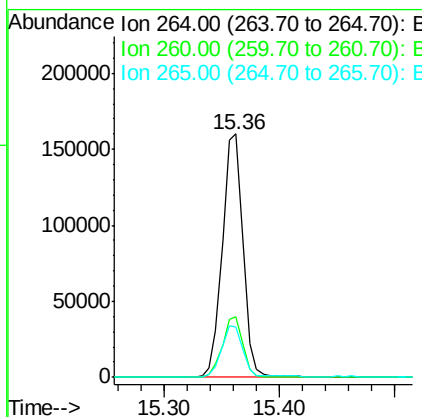
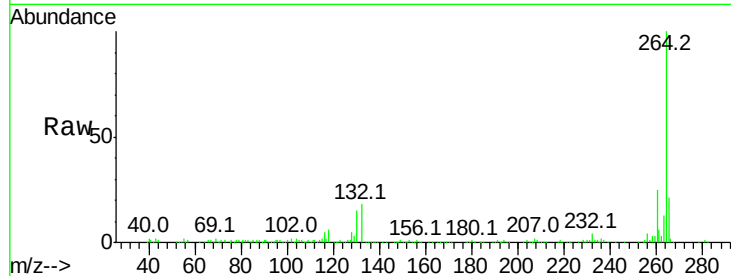
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
264	100	199396		
260	24.8	19.5	29.3	
265	20.8	17.2	25.8	

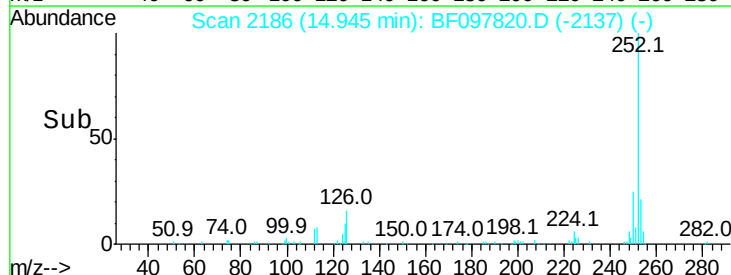
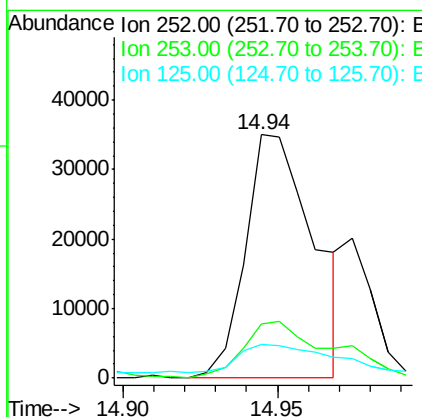
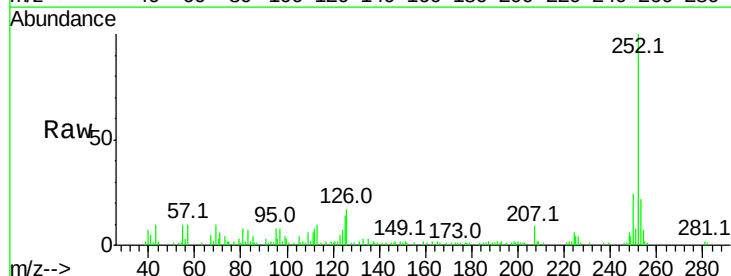
Manual Integrations
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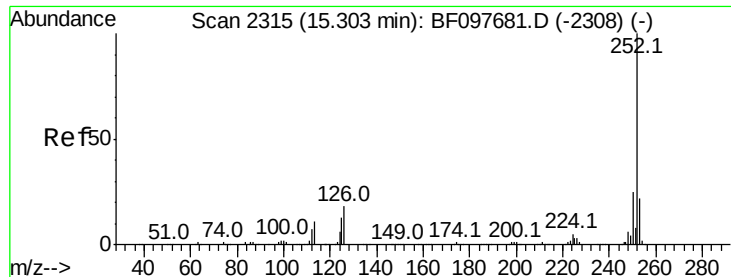
Sohil
8/18/2017 7:02:39 PM



#87
Benzo(b)fluoranthene
Concen: 4.341 ng m
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	54554		
253	22.1	18.1	27.1	
125	14.0	9.8	14.8	





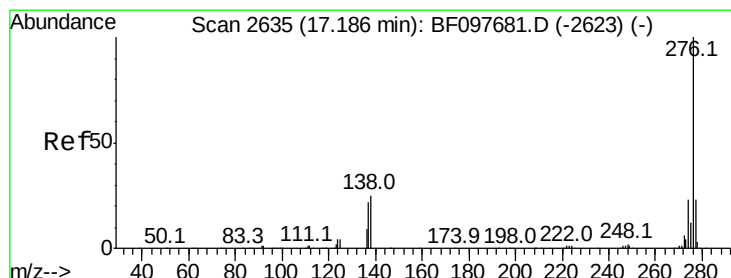
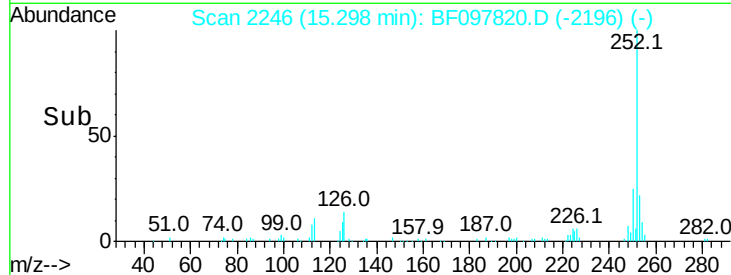
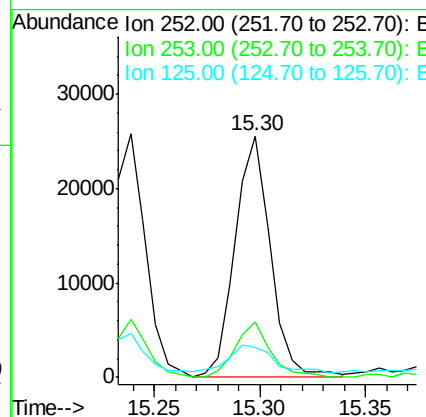
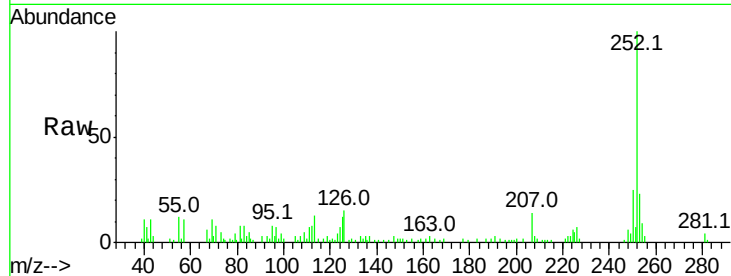
#89
Benzo(a)pyrene
Concen: 2.668 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Instrument :
BNA_F
ClientSampleId :
E2-J10-ESWDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	12.3	11.0	16.4

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:39 PM



#91
Benzo(g,h,i)perylene
Concen: 2.230 ng
RT: 17.17 min Scan# 2564
Delta R.T. -0.02 min
Lab File: BF097820.D
Acq: 18 Aug 2017 7:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	21.8	18.6	28.0
138	27.2	25.4	38.0

