

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097832.D
 Acq On : 18 Aug 2017 13:32
 Operator : SJ/JU
 Sample : I4820-09
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-18-WSW

Manual Integrations
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 8/18/2017 7:02:59 PM

Quant Time: Aug 18 14:26:08 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	130281	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	466070	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	168377	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	288296	20.00	ng	0.00
75) Chrysene-d12	13.93	240	254441	20.00	ng	0.00
86) Perylene-d12	15.36	264	173461	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	992438	115.87	ng	0.00
7) Phenol-d6	6.41	99	1316443	113.12	ng	0.00
23) Nitrobenzene-d5	7.34	82	758607	88.42	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	155445	106.40	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	950261	82.92	ng	0.00
78) Terphenyl-d14	12.89	244	697089	57.13	ng	0.00
Target Compounds						Qvalue
14) 1,2-Dichlorobenzene	6.95	146	20418	2.241	ng	92
31) Naphthalene	8.08	128	102869	4.251	ng	98
37) 2-Methylnaphthalene	8.77	142	94056	6.340	ng	98
49) Dimethylphthalate	9.53	163	141771	11.519	ng	99
51) Acenaphthene	9.85	154	41533	3.696	ng	96
54) Dibenzofuran	10.02	168	35466	2.355	ng	# 90
57) Fluorene	10.36	166	45357	3.896	ng	95
70) Phenanthrene	11.32	178	267657	17.423	ng	99
71) Anthracene	11.37	178	87023	5.585	ng	99
74) Fluoranthene	12.51	202	442979	27.626	ng	98
77) Pyrene	12.73	202	408623	19.636	ng	99
80) Benzo(a)anthracene	13.92	228	232580	15.251	ng	96
82) Chrysene	13.96	228	196763	12.971	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	97303m	8.719	ng	
87) Benzo(b)fluoranthene	14.95	252	232841m	21.296	ng	
88) Benzo(k)fluoranthene	14.97	252	88246m	8.591	ng	
89) Benzo(a)pyrene	15.30	252	178878	18.480	ng	97
90) Dibenz(a,h)anthracene	16.77	278	27091m	3.438	ng	
91) Benzo(a,h,i)perylene	17.18	276	86379	10.505	ng	# 93

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

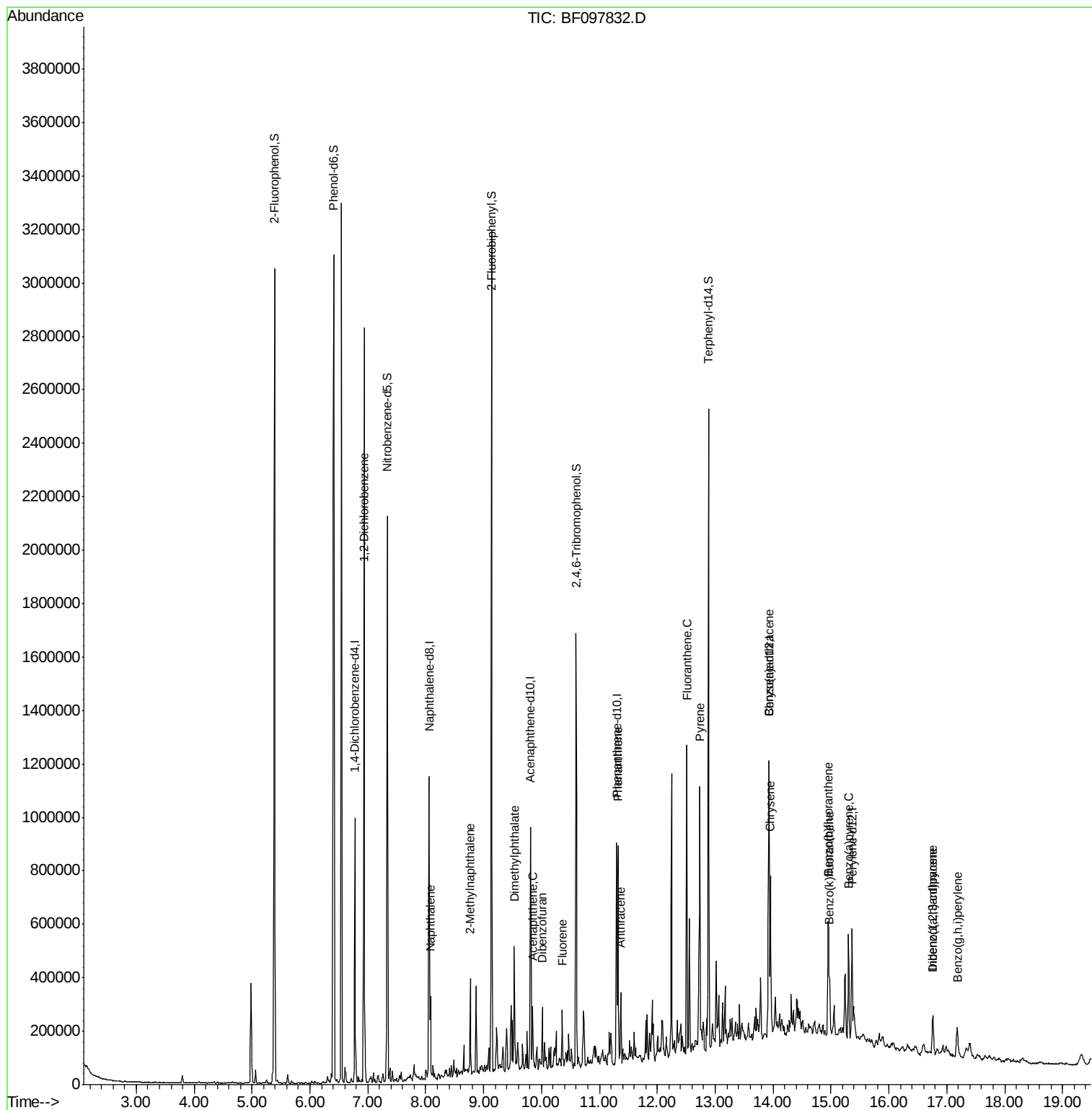
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
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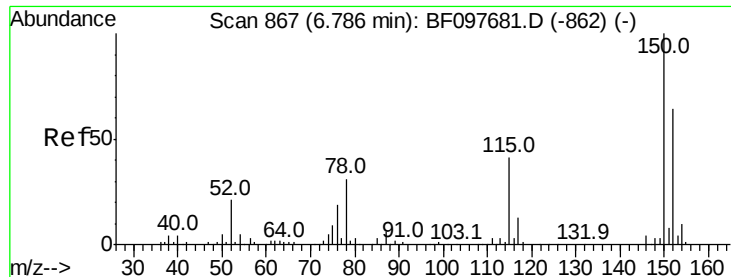
Instrument :
BNA_F
ClientSampled :
E2-18-WSW

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#1

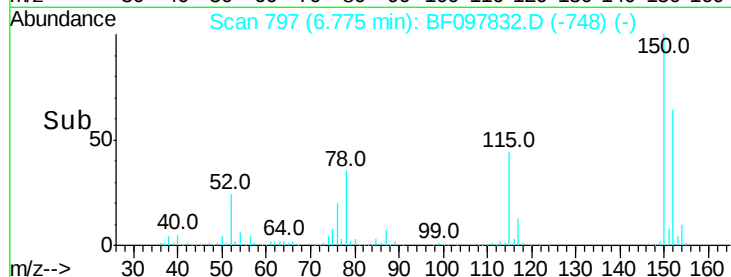
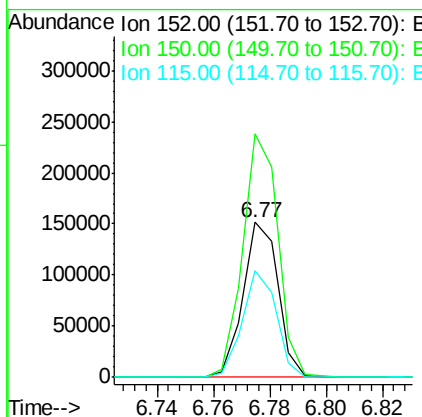
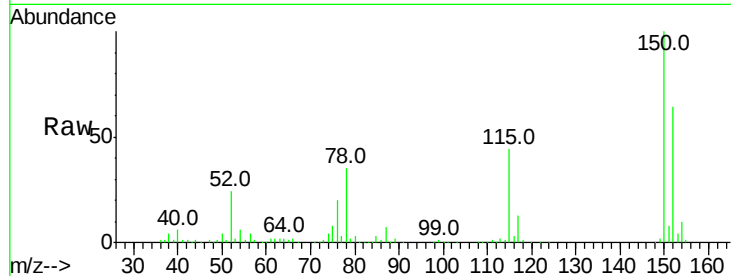
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	126.2	189.2
115	69.1	52.2	78.2

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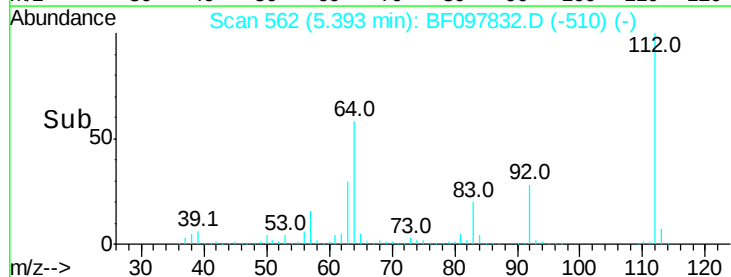
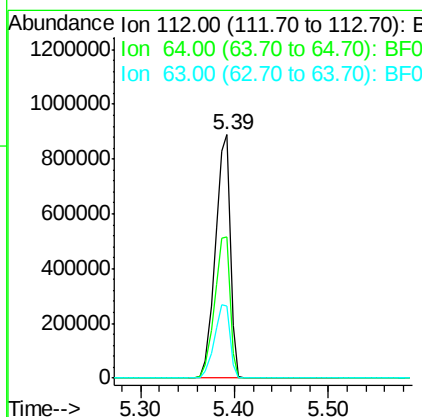
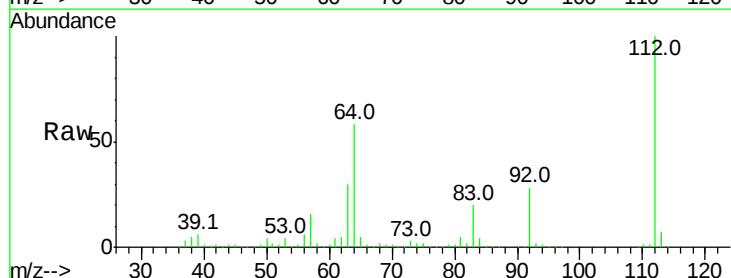
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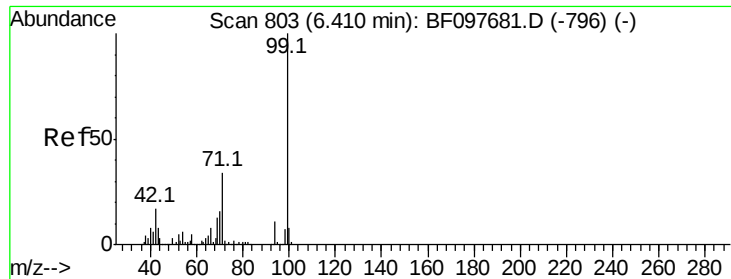


#5

2-Fluorophenol
Concen: 115.870 ng
RT: 5.39 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	46.0	69.0
63	29.9	23.4	35.0





#7

Phenol-d6

Concen: 113.121 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Instrument :

BNA_F

ClientSampled :

E2-18-WSW

Tot Ion: 99 Resp: 1316443

Ion Ratio Lower Upper

99 100

42 16.1 13.5 20.3

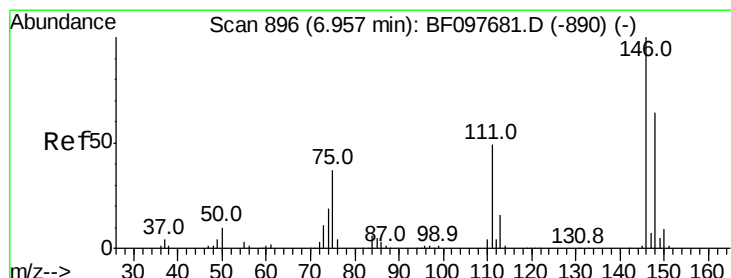
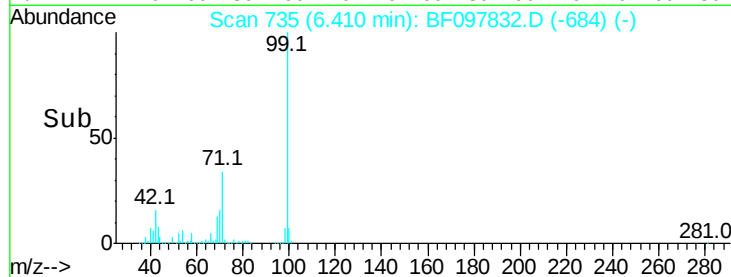
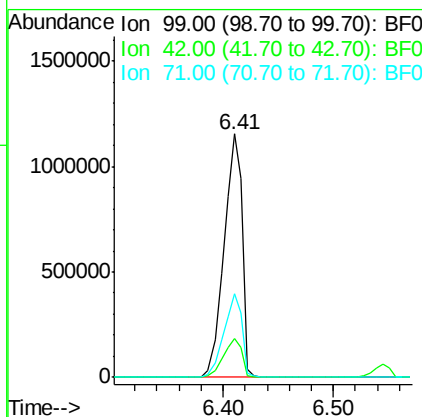
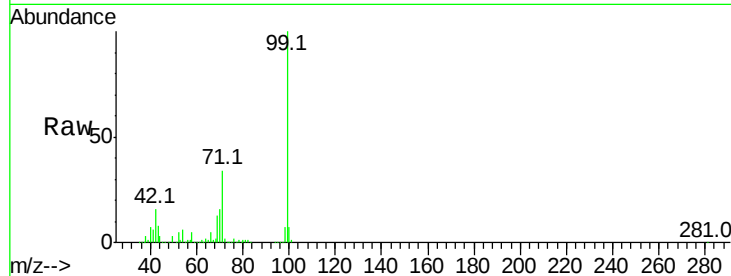
71 34.2 24.5 36.7

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#14

1,2-Dichlorobenzene

Concen: 2.241 ng

RT: 6.95 min Scan# 826

Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

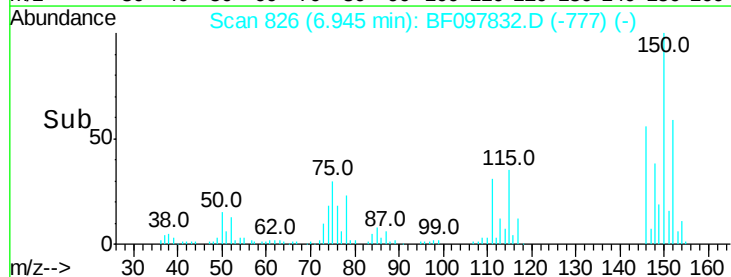
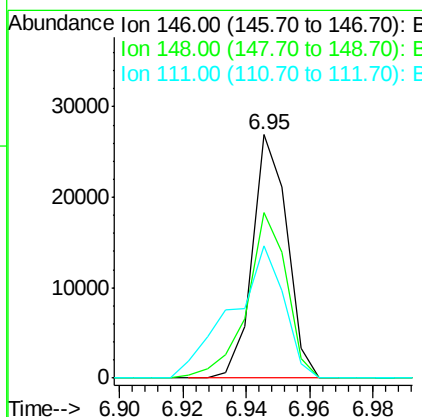
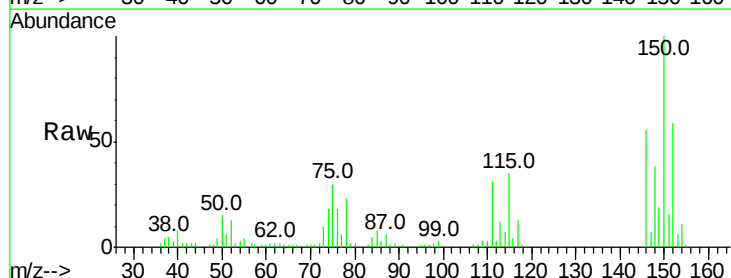
Tgt Ion: 146 Resp: 20418

Ion Ratio Lower Upper

146 100

148 68.2 50.4 75.6

111 54.2 38.2 57.4





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Instrument :

BNA_F

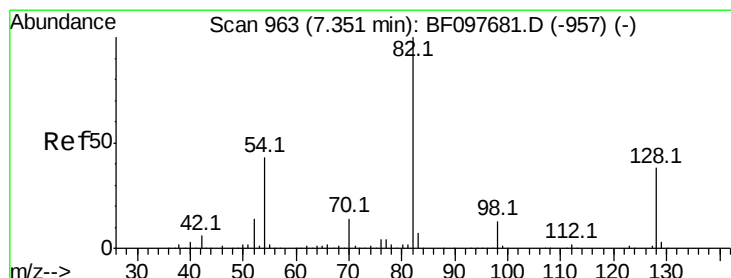
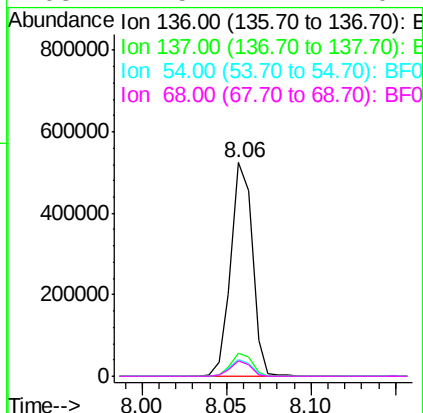
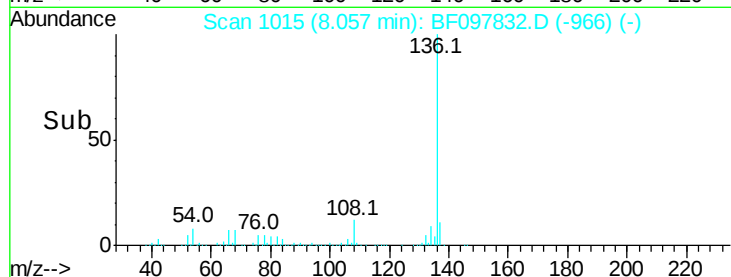
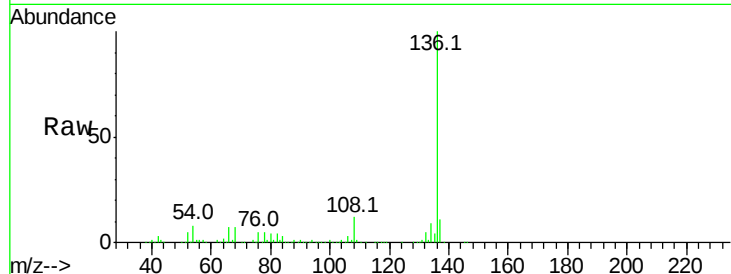
ClientSampled :

E2-18-WSW

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.0	8.5	12.7
54	8.1	4.9	7.3#
68	7.5	4.1	6.1#

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#23

Nitrobenzene-d5

Concen: 88.422 ng

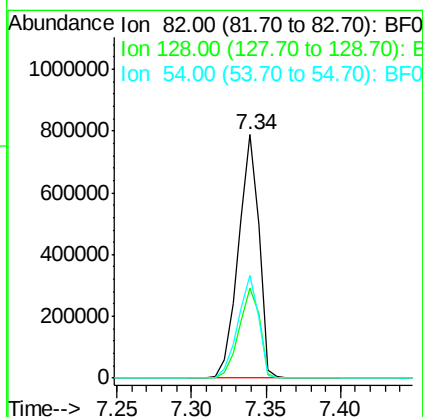
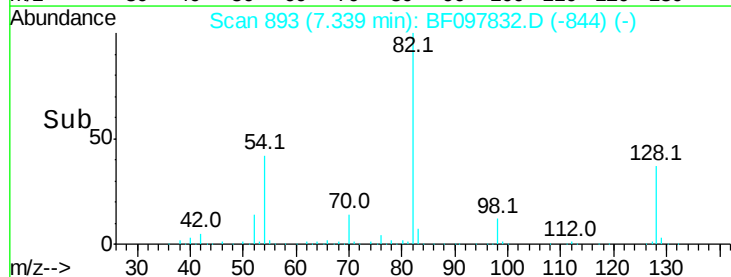
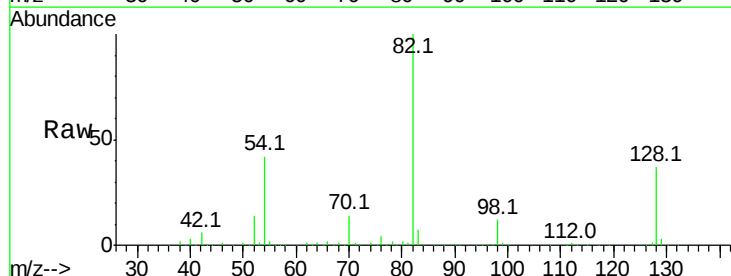
RT: 7.34 min Scan# 893

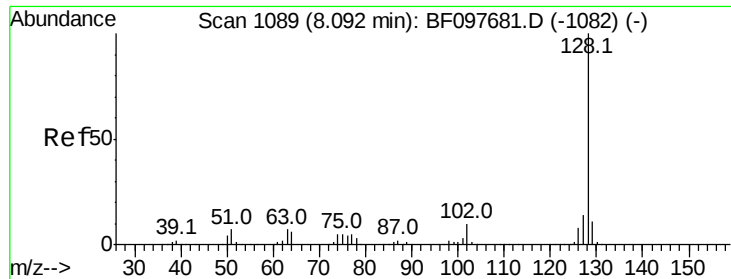
Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	37.0	34.0	51.0
54	42.1	42.2	63.2#





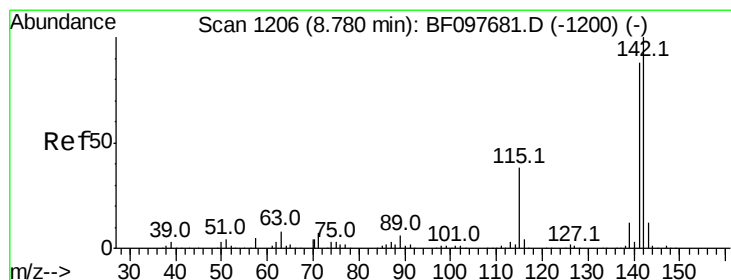
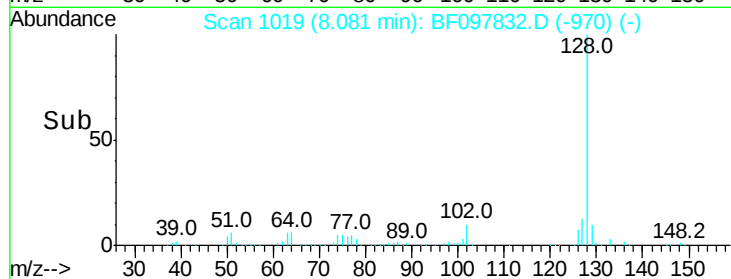
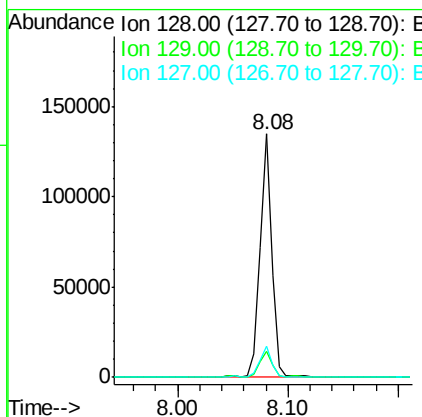
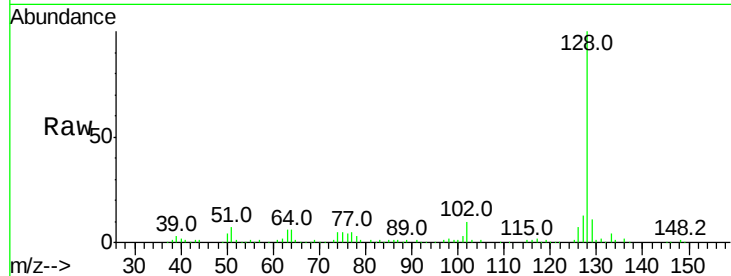
#31
Naphthalene
Concen: 4.251 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.5	9.0	13.6	
127	12.7	10.8	16.2	

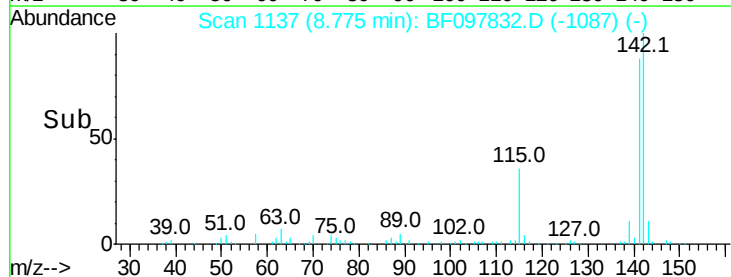
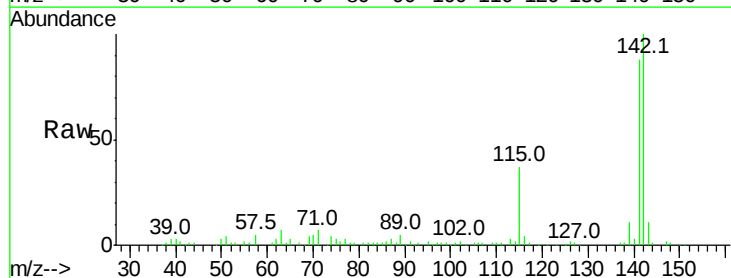
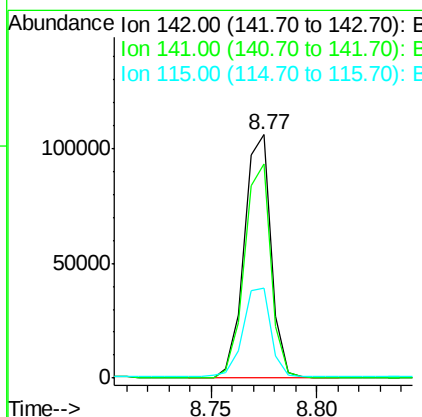
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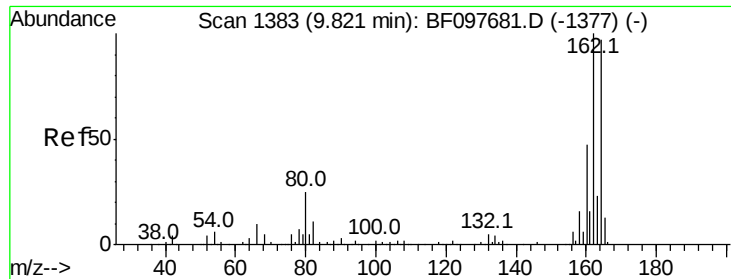
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#37
2-Methylnaphthalene
Concen: 6.340 ng
RT: 8.77 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	88.1	71.3	106.9	
115	36.8	27.1	40.7	





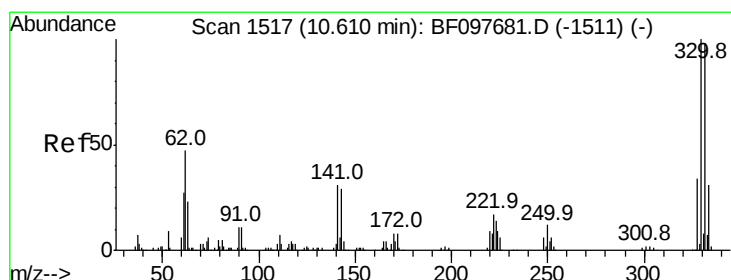
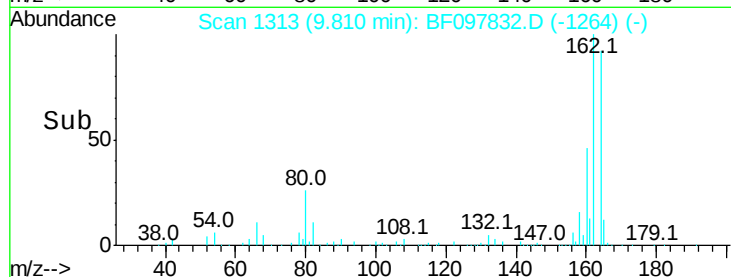
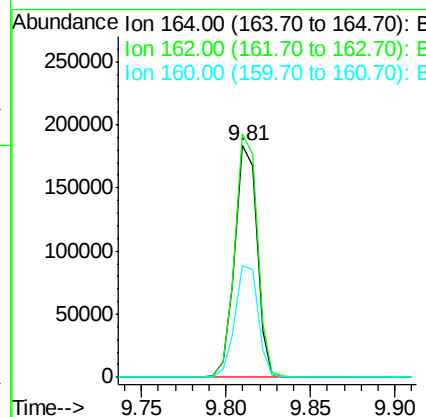
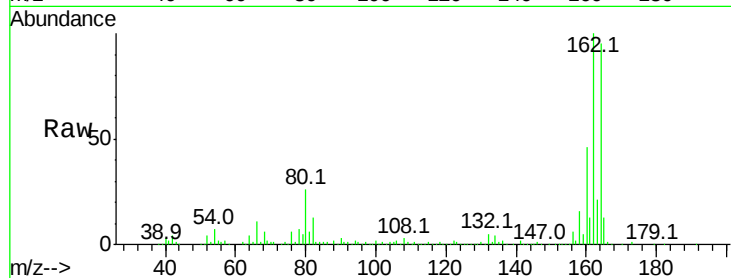
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampled :
E2-18-WSW

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.1	82.6	123.8	
160	48.1	36.2	54.2	

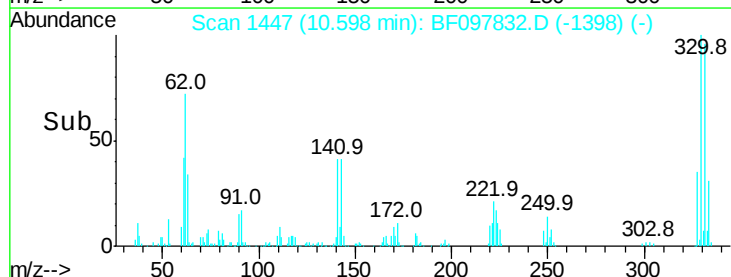
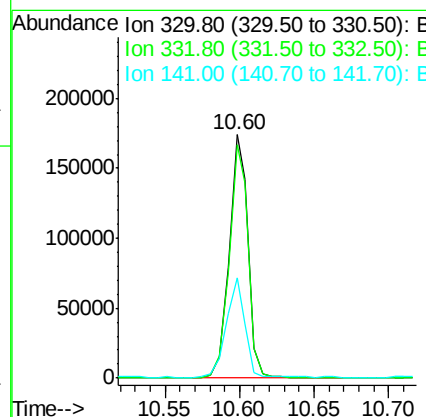
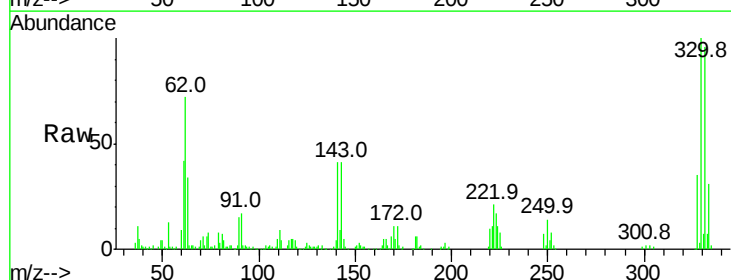
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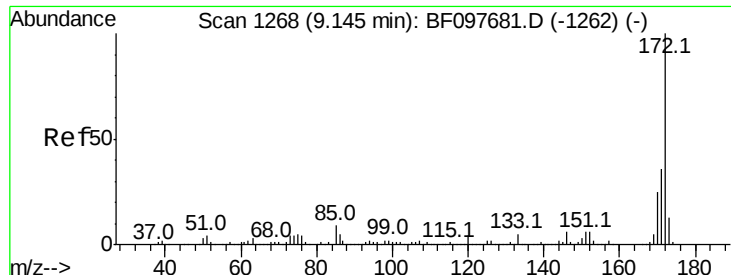
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#41
2,4,6-Tribromophenol
Concen: 106.400 ng
RT: 10.60 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.3	76.6	115.0	
141	40.0	31.4	47.2	





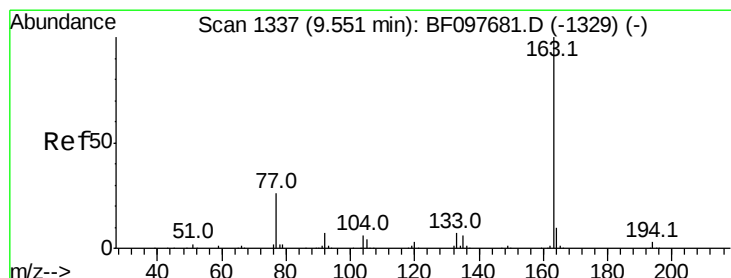
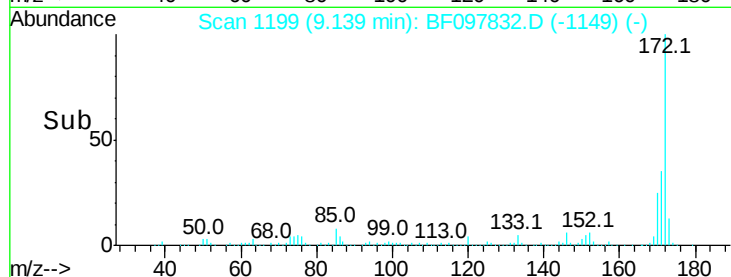
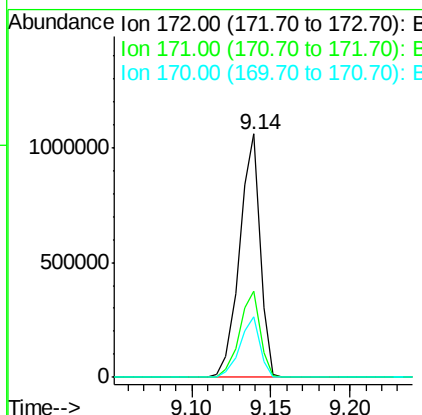
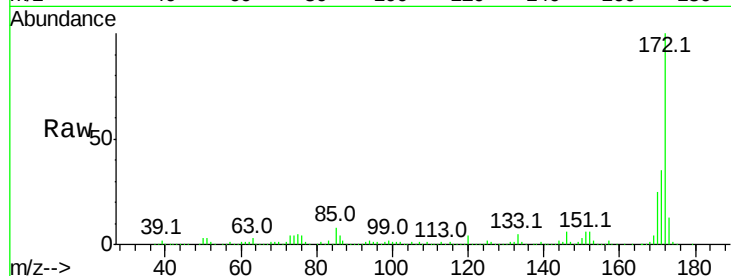
#44
2-Fluorobiphenyl
Concen: 82.917 ng
RT: 9.14 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampled :
E2-18-WSW

Tot Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.5	29.6	44.4	
170	24.8	19.8	29.8	

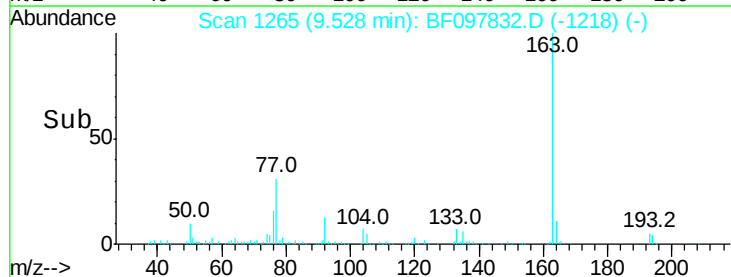
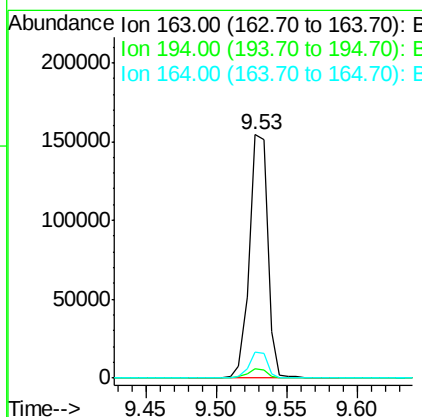
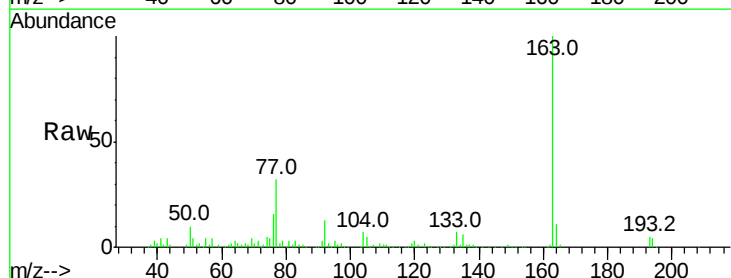
Manual Integrations
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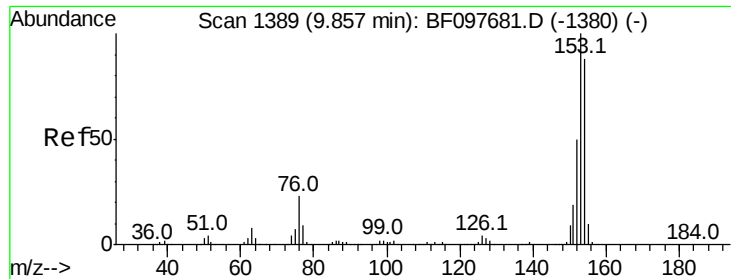
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#49
Dimethylphthalate
Concen: 11.519 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	2.6	4.0	
164	10.6	8.4	12.6	





#51

Acenaphthene

Concen: 3.696 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Instrument :

BNA_F

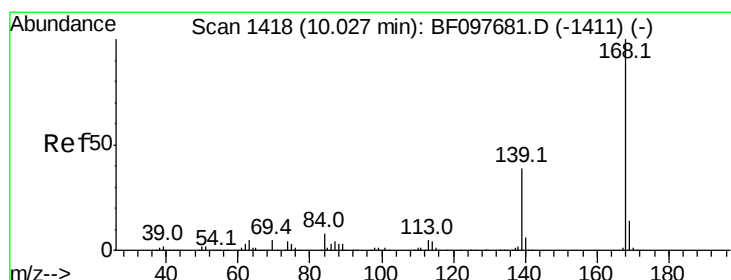
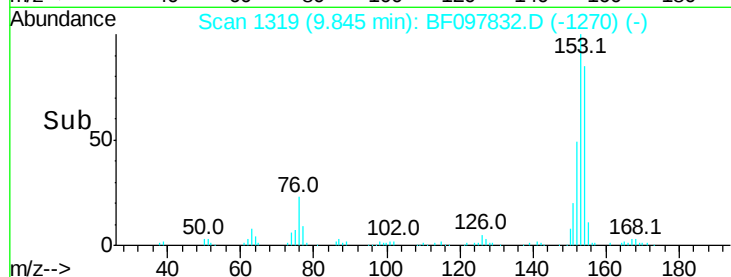
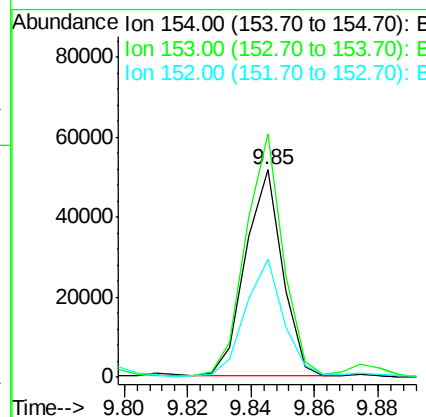
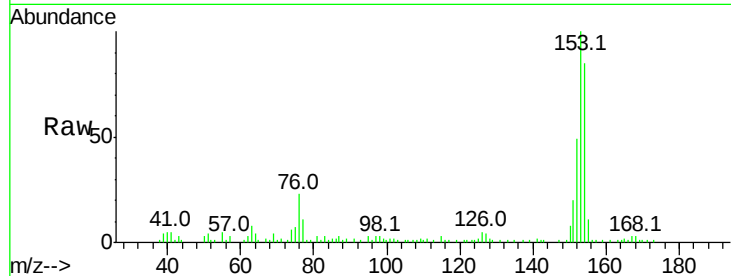
ClientSampled :

E2-18-WSW

Tot Ion:	154	Resp:	41533
Ion	Ratio	Lower	Upper
154	100		
153	117.5	90.5	135.7
152	57.3	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 2.355 ng

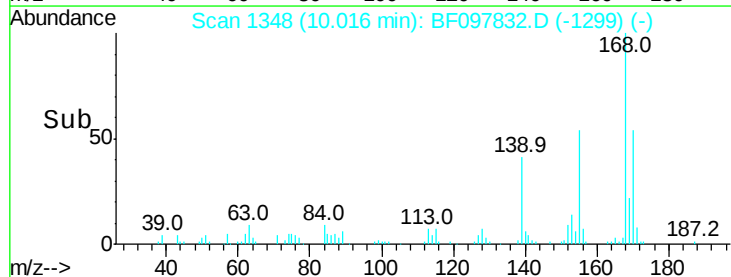
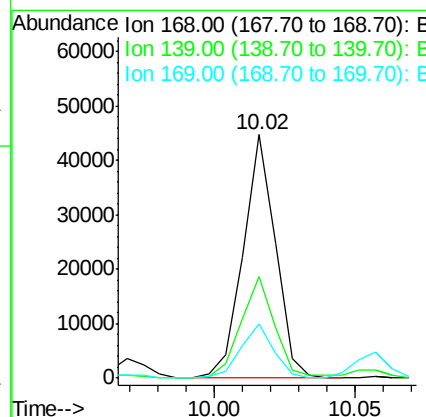
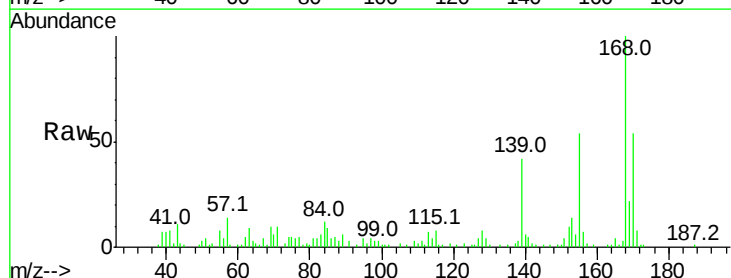
RT: 10.02 min Scan# 1348

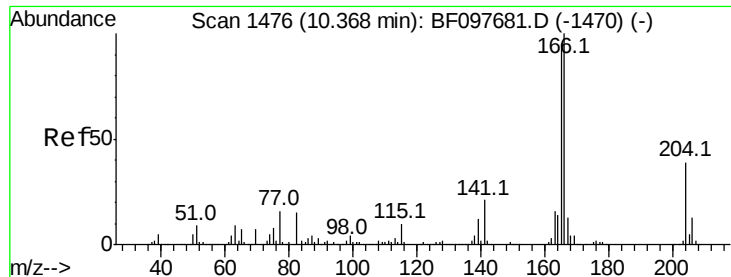
Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Tgt Ion:	168	Resp:	35466
Ion	Ratio	Lower	Upper
168	100		
139	41.8	30.6	45.8
169	22.2	10.8	16.2#





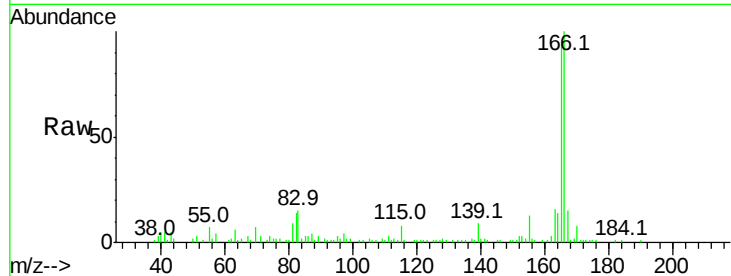
#57
Fluorene
 Concen: 3.896 ng
 RT: 10.36 min Scan# 1406
 Delta R.T. -0.01 min
 Lab File: BF097832.D
 Acq: 18 Aug 2017 13:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-18-WSW

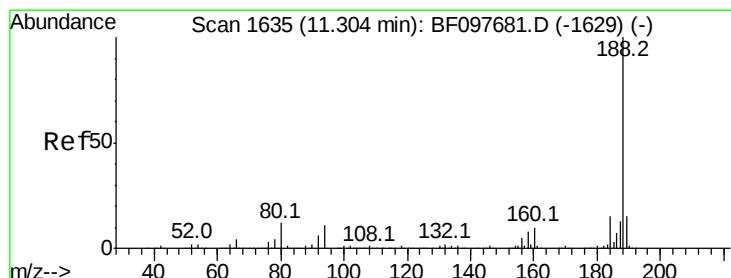
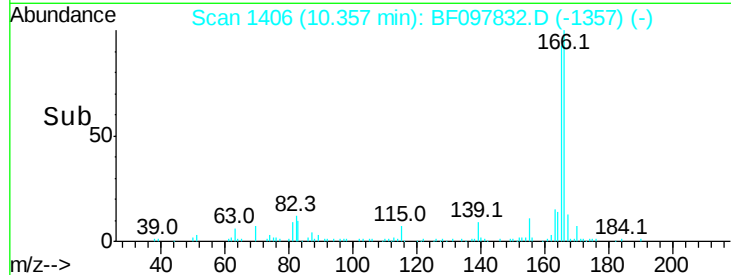
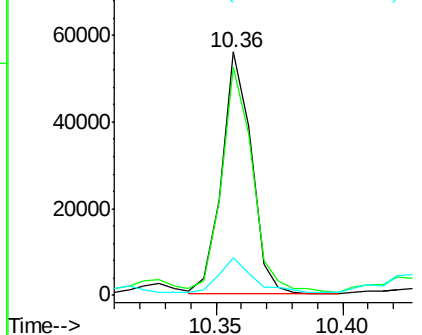
Tot Ion	Ratio	Resp	Lower	Upper
166	100	45357		
165	93.9		78.8	118.2
167	15.2		10.6	16.0

Manual Integrations
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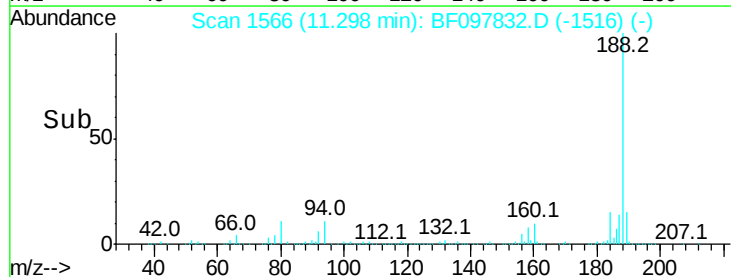
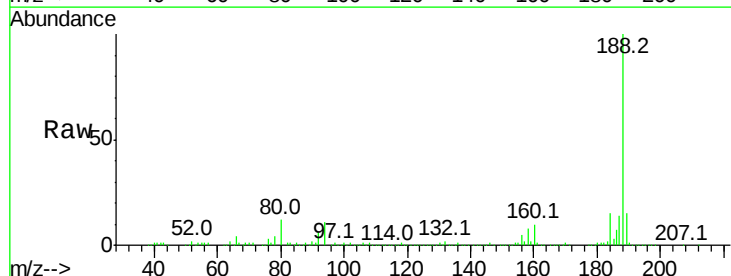
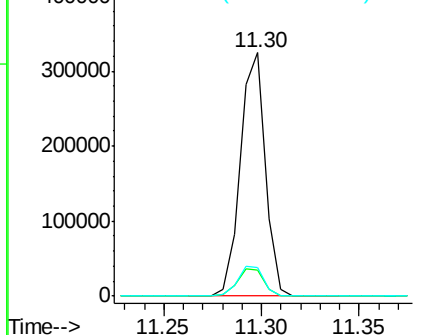
Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

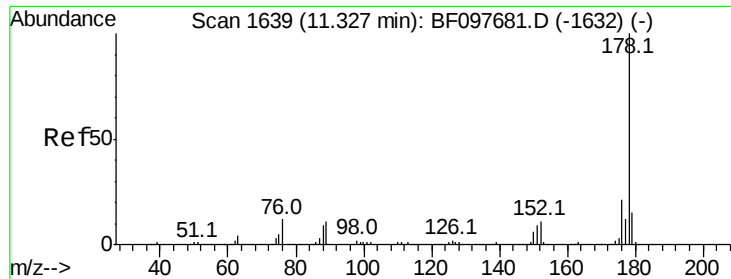


#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF097832.D
 Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	288296		
94	10.6		9.4	14.2
80	11.5		10.2	15.2

Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





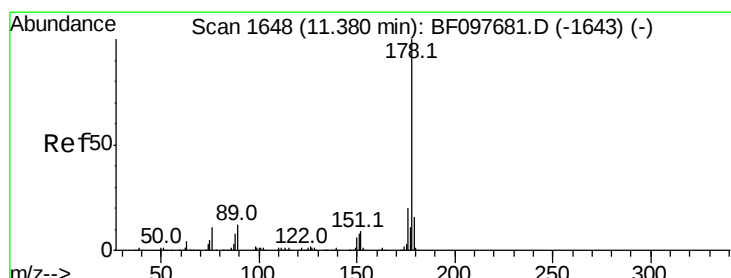
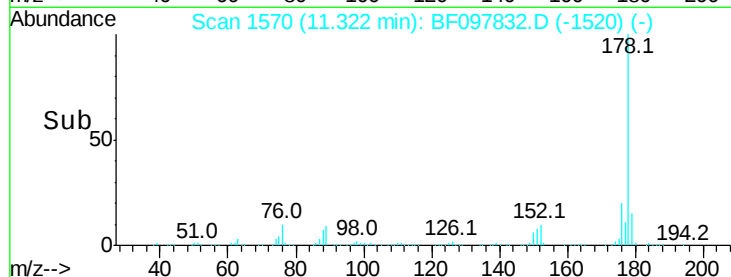
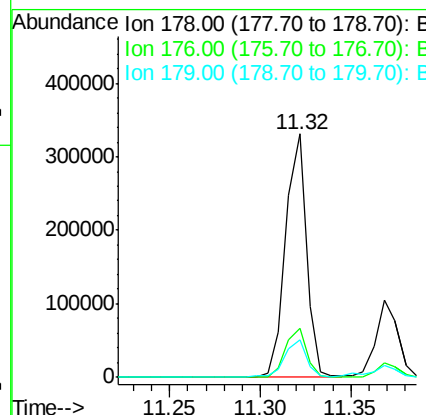
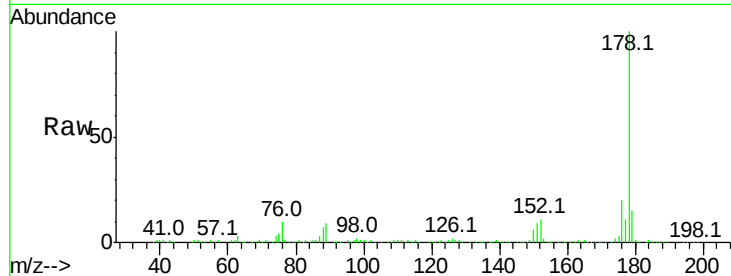
#70
Phenanthrene
Concen: 17.423 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Resp	Lower	Upper
178	100	267657		
176	20.0		16.2	24.4
179	15.3		12.6	19.0

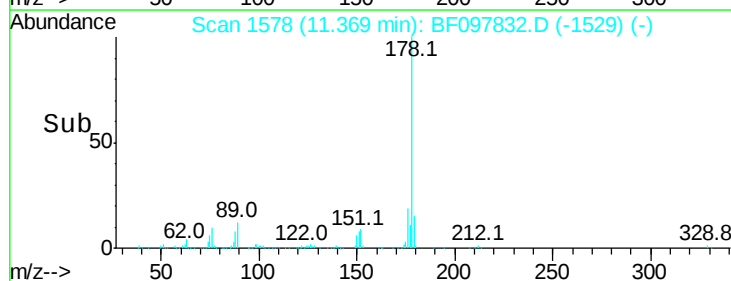
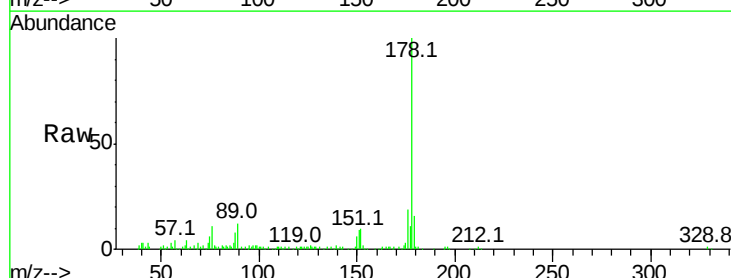
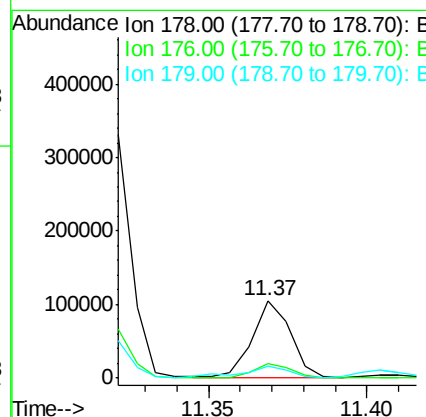
Manual Integrations
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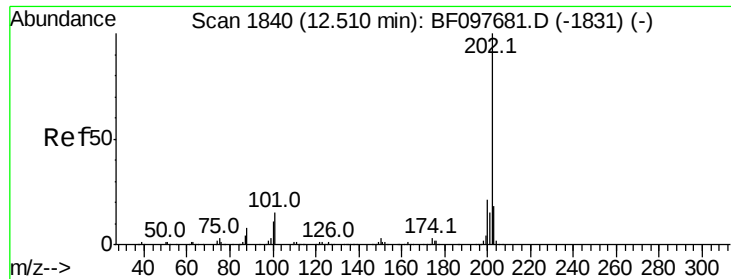
Sohil
8/18/2017 7:02:59 PM



#71
Anthracene
Concen: 5.585 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	87023		
176	19.1		15.8	23.8
179	15.7		12.7	19.1





#74

Fluoranthene

Concen: 27.626 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Instrument :

BNA_F

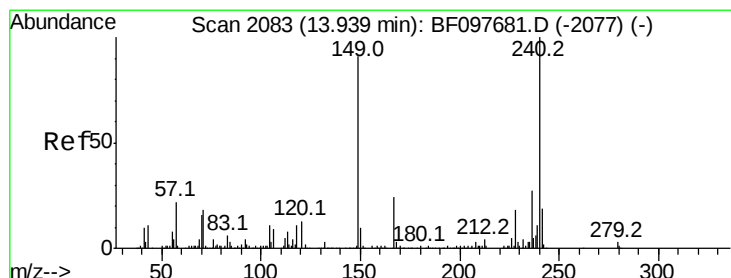
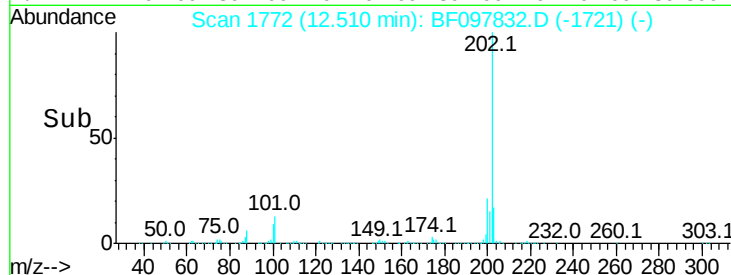
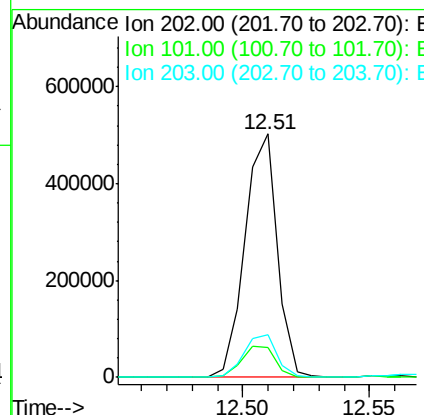
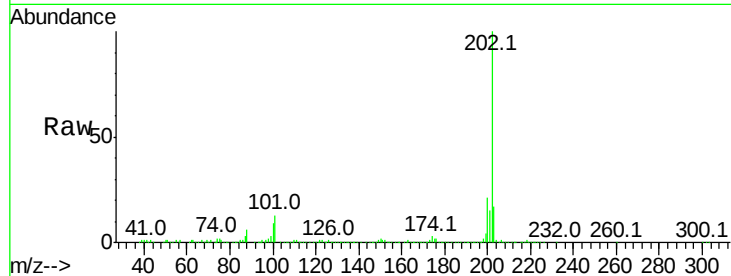
ClientSampleId :

E2-18-WSW

Tot Ion:	202	Resp:	442979
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	33.2
203	17.4	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

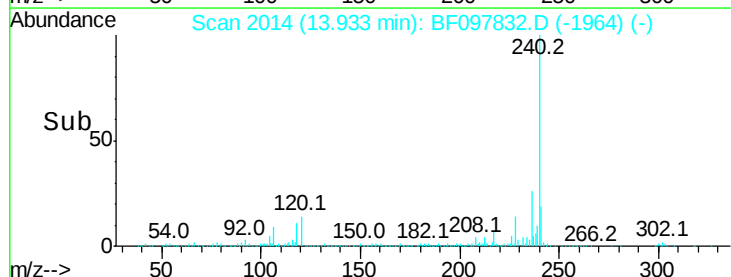
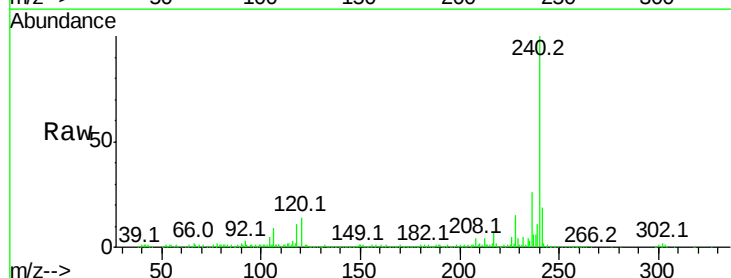
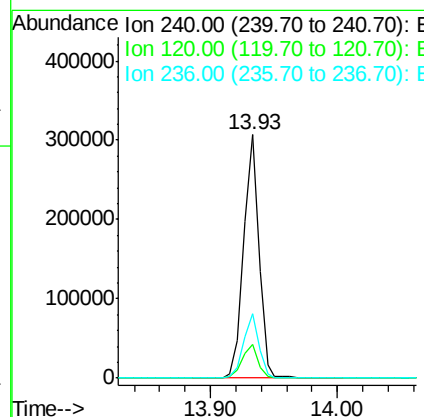
RT: 13.93 min Scan# 2014

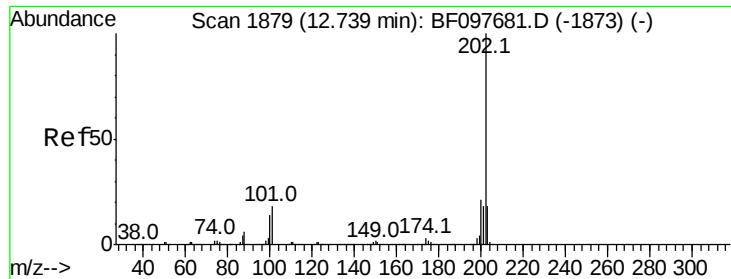
Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Tgt Ion:	240	Resp:	254441
Ion Ratio	Lower	Upper	
240	100		
120	13.8	5.8	8.8#
236	26.3	20.5	30.7





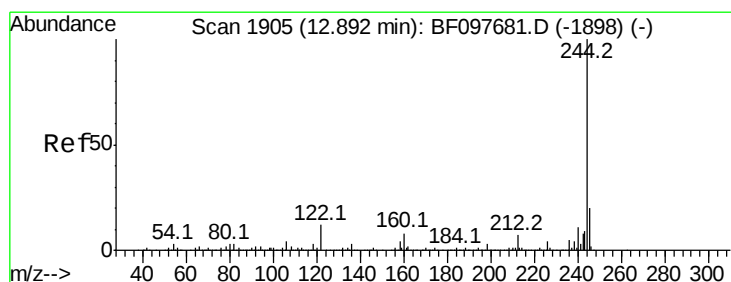
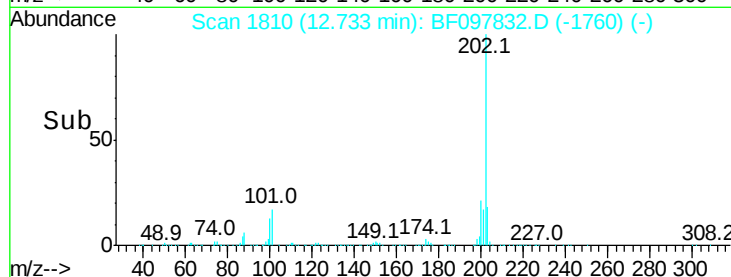
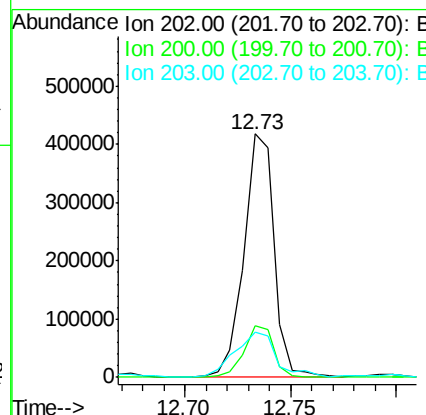
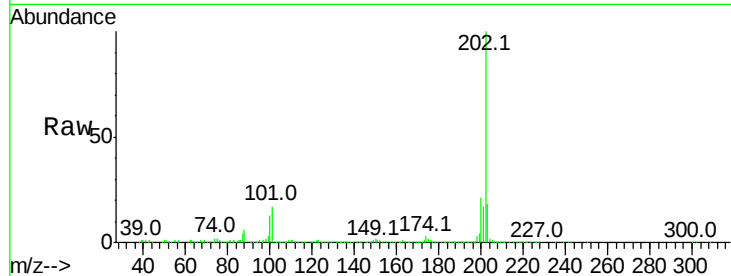
#77
Pvrene
Concen: 19.636 ng
RT: 12.73 min Scan# 1810
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampled :
E2-18-WSW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.3	17.6	26.4
203	18.3	14.4	21.6

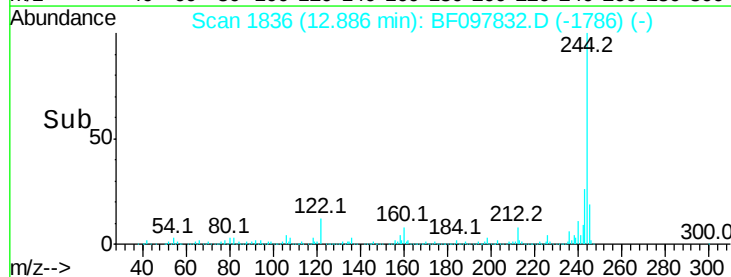
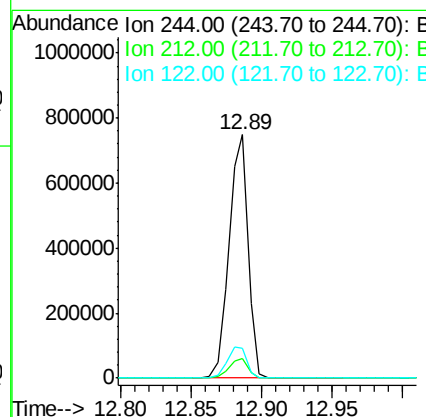
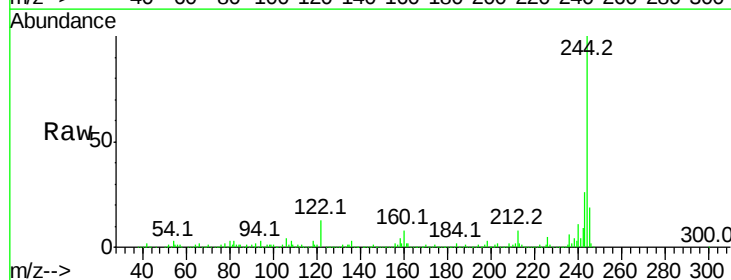
Manual Integrations
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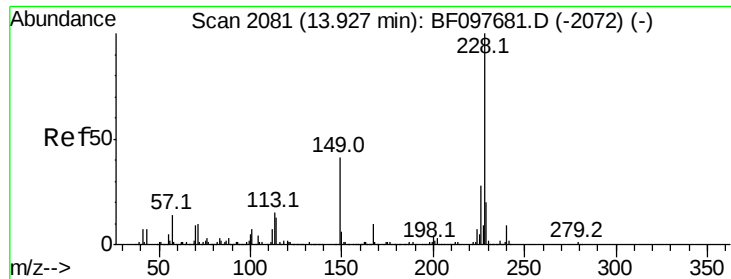
Sohil
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#78
Terphenyl-d14
Concen: 57.132 ng
RT: 12.89 min Scan# 1836
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.8	6.0	9.0
122	12.5	10.3	15.5





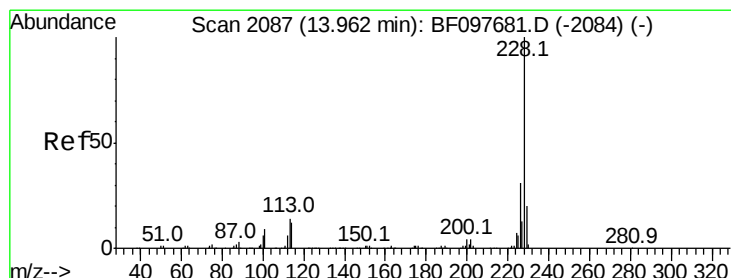
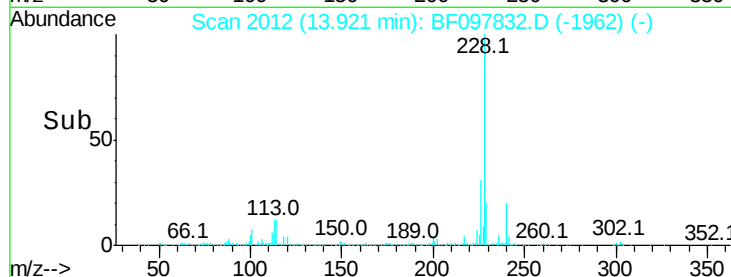
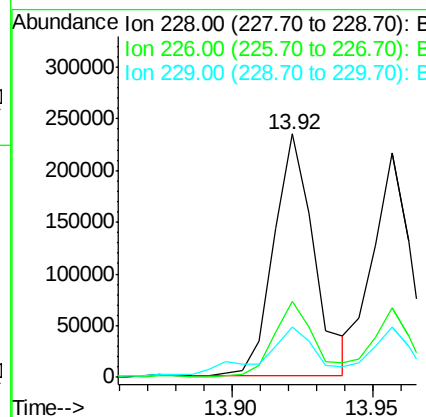
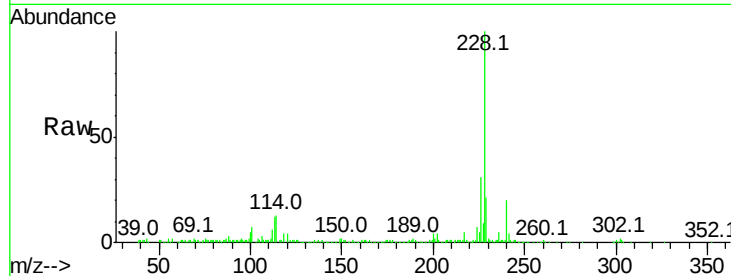
#80
Benzo(a)anthracene
Concen: 15.251 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.6	33.8
229	20.6	16.3	24.5

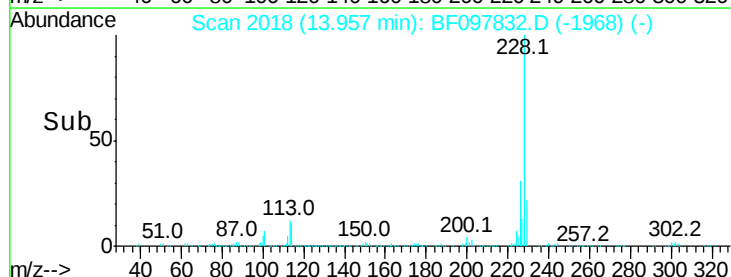
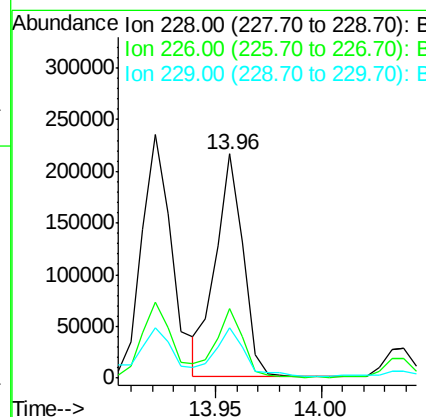
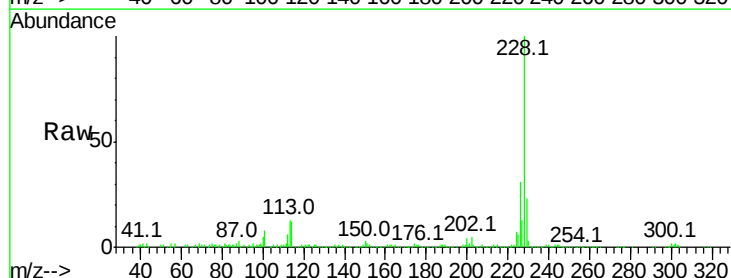
Manual Integrations
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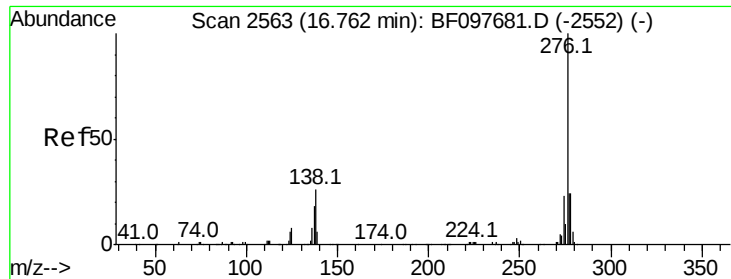
Sohil
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#82
Chrysene
Concen: 12.971 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	22.6	15.8	23.6





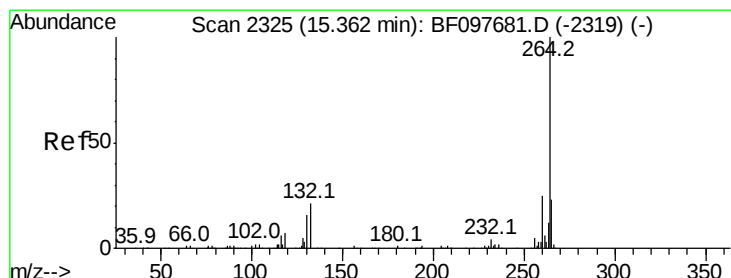
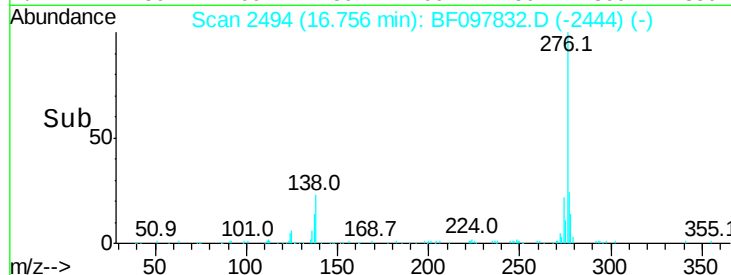
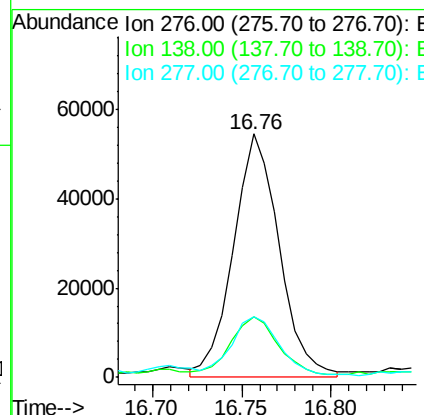
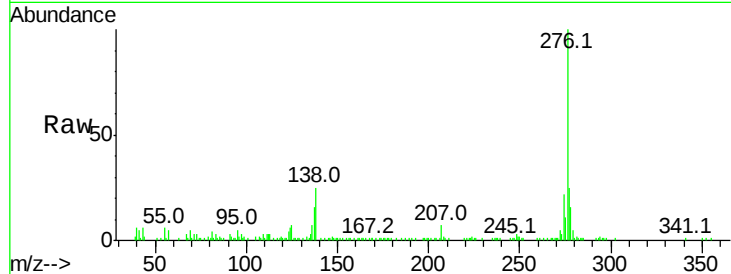
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.719 ng/ml
RT: 16.76 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
138	5.5	27.8	41.6#
277	4.9	20.2	30.4#

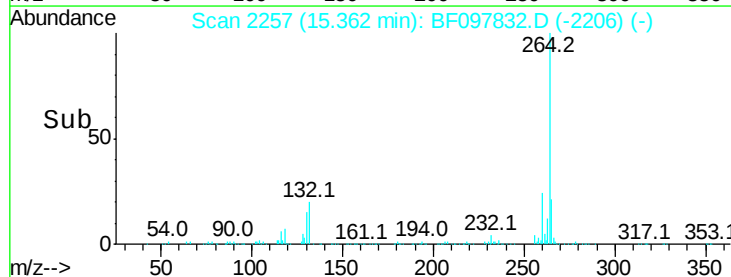
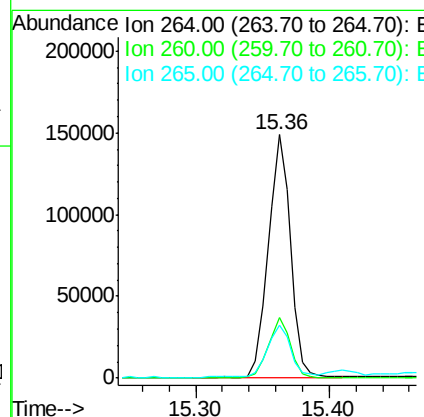
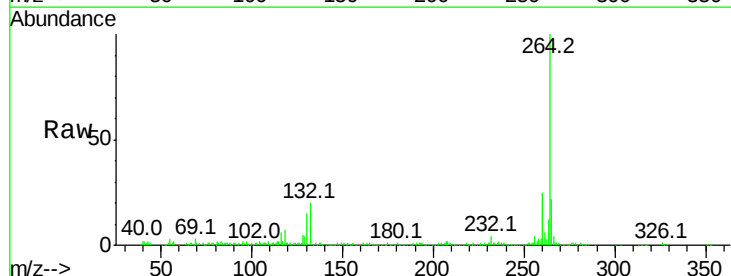
Manual Integrations
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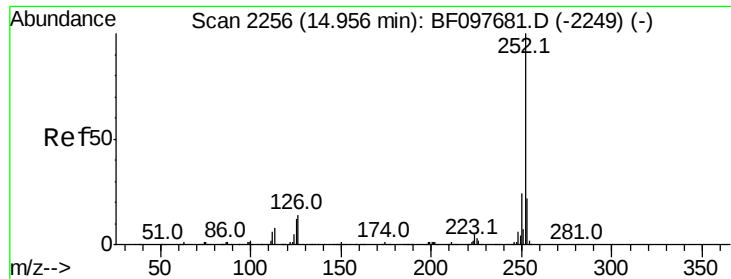
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	21.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 21.296 ng m

RT: 14.95 min Scan# 2187

Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Instrument :

BNA_F

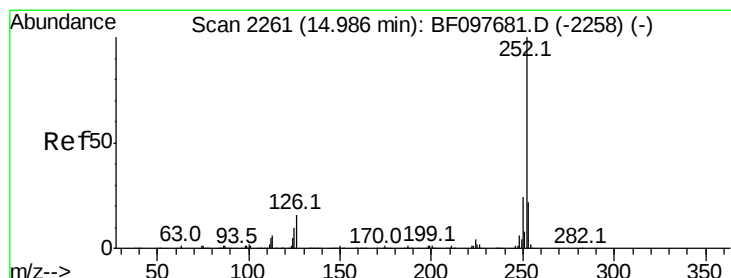
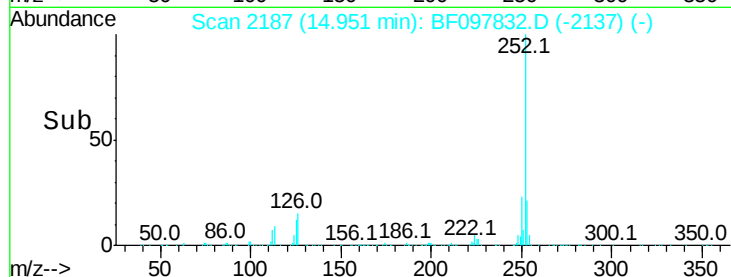
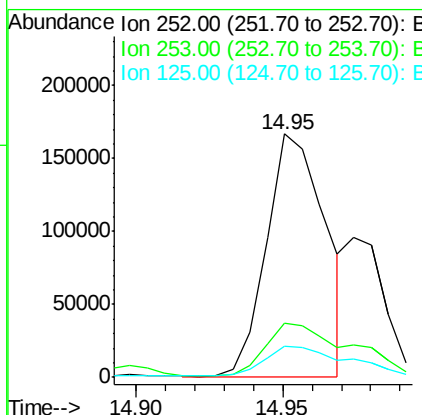
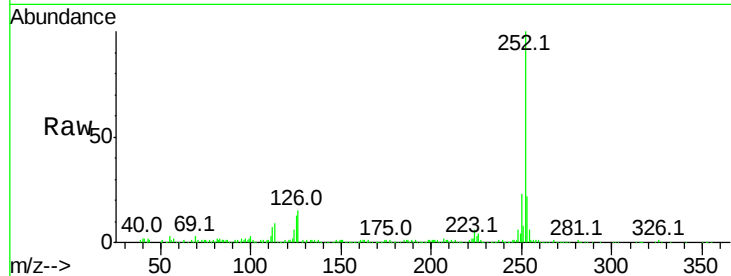
ClientSampled :

E2-18-WSW

Tot Ion:	252	Resp:	232841
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.1	27.1
125	12.7	9.8	14.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 8.591 ng m

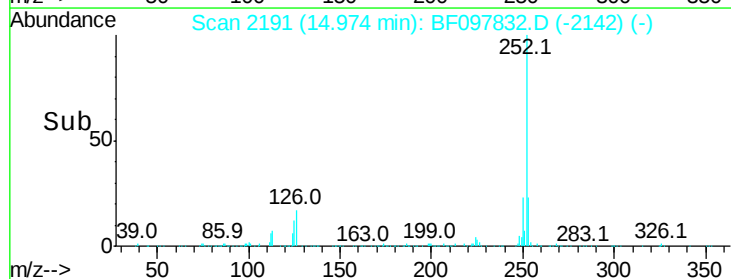
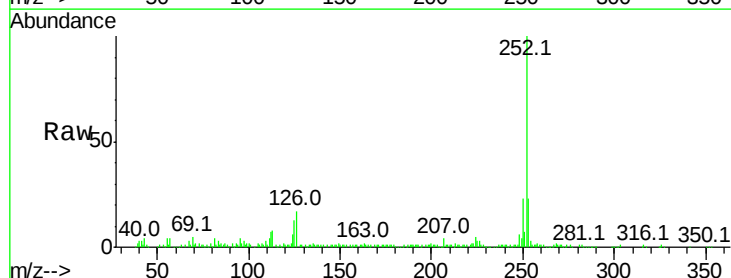
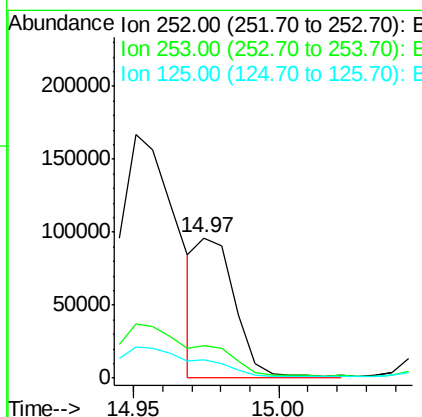
RT: 14.97 min Scan# 2191

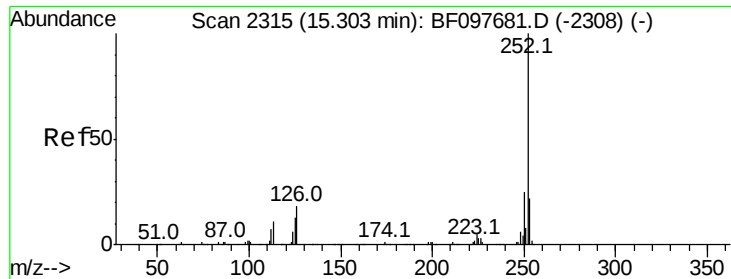
Delta R.T. -0.01 min

Lab File: BF097832.D

Acq: 18 Aug 2017 13:32

Tgt Ion:	252	Resp:	88246
Ion Ratio	Lower	Upper	
252	100		
253	23.5	18.4	27.6
125	13.1	13.1	19.7





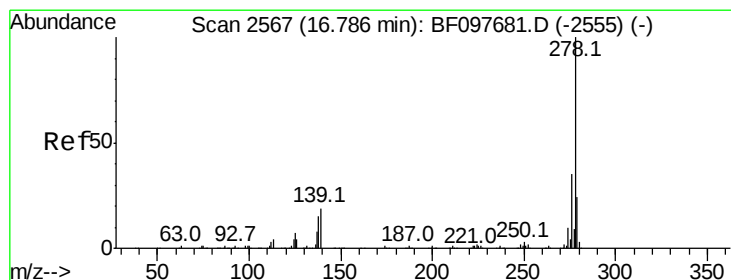
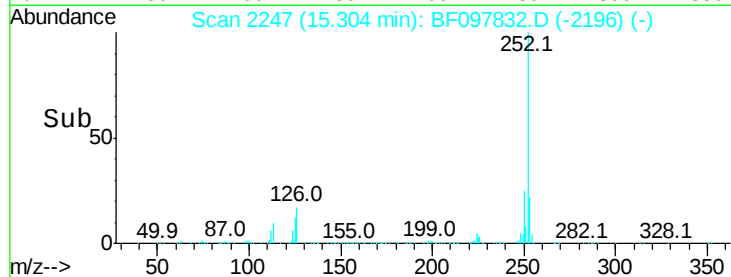
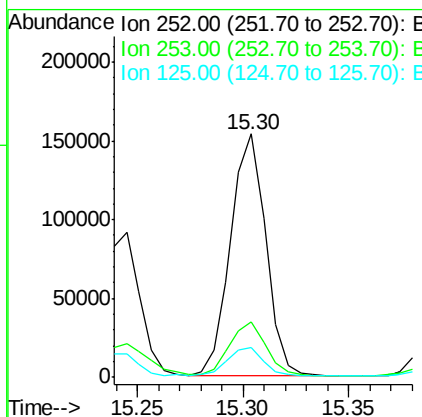
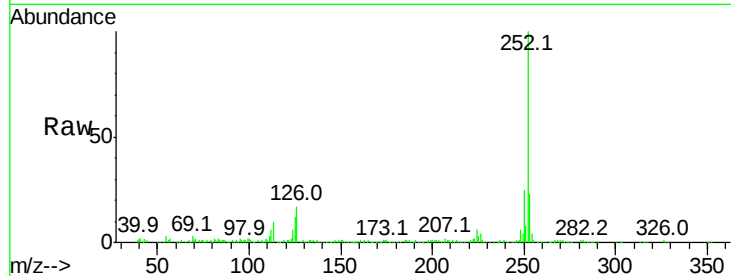
#89
Benzo(a)pyrene
Concen: 18.480 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Instrument :
BNA_F
ClientSampleId :
E2-18-WSW

Tot Ion	Ratio	Resp	Lower	Upper
252	100	178878		
253	22.9		17.5	26.3
125	12.3		11.0	16.4

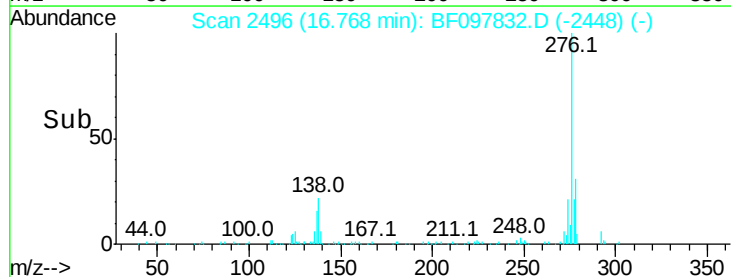
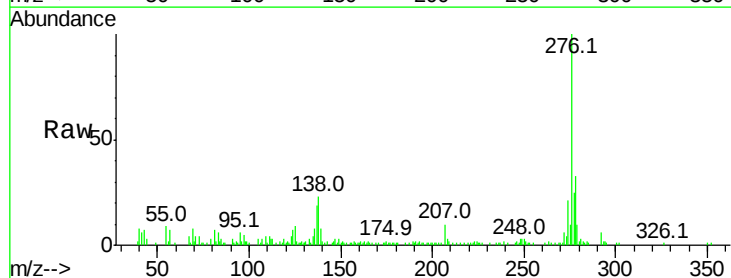
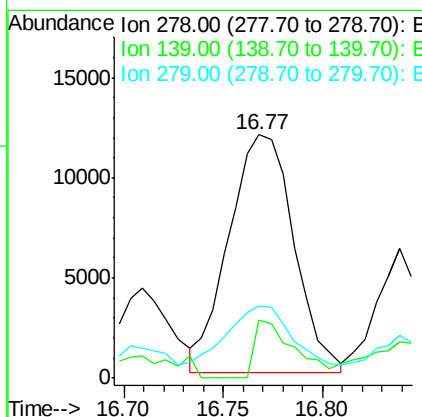
Manual Integrations
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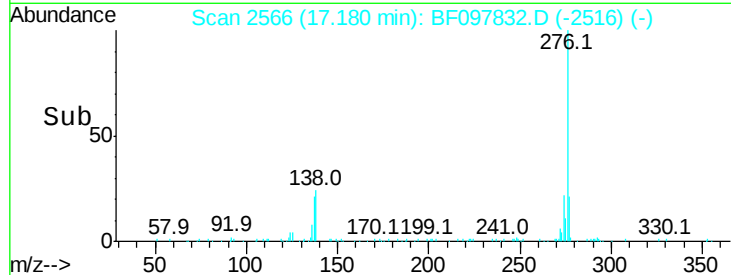
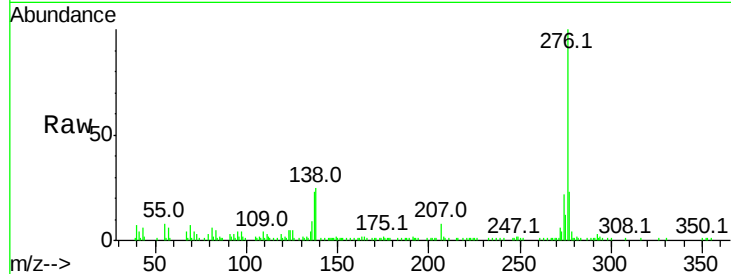
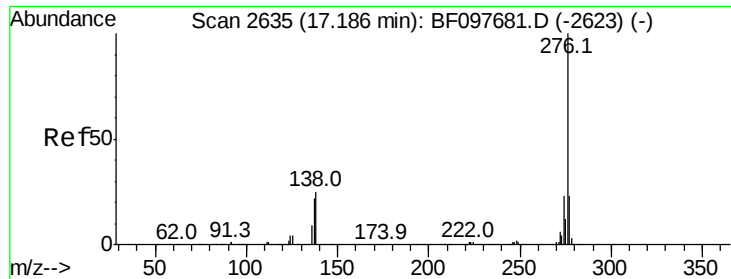
Sohil
8/18/2017 7:02:59 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.438 ng m
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF097832.D
Acq: 18 Aug 2017 13:32

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	27091		
139	23.6		16.6	24.8
279	29.6		19.3	28.9#





#91
 Benzo(a,h,i)perylene
 Concen: 10.505 ng
 RT: 17.18 min Scan# 2566
 Delta R.T. -0.01 min
 Lab File: BF097832.D
 Acq: 18 Aug 2017 13:32

Instrument :
 BNA_F
 ClientSampleId :
 E2-18-WSW

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	22.5	18.6	28.0
138	25.2	25.4	38.0#

Manual Integrations
 APPROVED

Sohil
 8/18/2017 7:02:59 PM

