

Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
 Data File : BF097977.D
 Acq On : 23 Aug 2017 2:17
 Operator : SJ/JU
 Sample : I4910-03
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-6-7

Manual Integrations
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Sohil
 8/23/2017 3:03:58 PM

Quant Time: Aug 23 05:00:47 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	6.75	152	131169	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	502818	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	208049	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	331590	20.00	ng	0.00
75) Chrysene-d12	13.90	240	271173	20.00	ng	0.00
86) Perylene-d12	15.32	264	228624	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	964148	111.81	ng	0.01
7) Phenol-d6	6.39	99	1296953	110.69	ng	0.00
23) Nitrobenzene-d5	7.32	82	819815	88.57	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	176749	97.91	ng	0.00
44) 2-Fluorobiphenyl	9.11	172	1099794	77.67	ng	0.00
78) Terphenyl-d14	12.85	244	702790	54.04	ng	0.00
Target Compounds						
10) Phenol	6.40	94	35008	2.555	ng	Qvalue 90
31) Naphthalene	8.05	128	212659	8.147	ng	98
37) 2-Methylnaphthalene	8.75	142	65014	4.062	ng	95
49) Dimethylphthalate	9.50	163	209896	13.802	ng	99
51) Acenaphthene	9.82	154	38574	2.778	ng	99
54) Dibenzofuran	9.99	168	56126	3.016	ng	98
57) Fluorene	10.33	166	64401	4.477	ng	94
70) Phenanthrene	11.29	178	220465	12.477	ng	99
71) Anthracene	11.34	178	64775	3.614	ng	99
74) Fluoranthene	12.47	202	232182	12.589	ng	100
77) Pyrene	12.70	202	242931	10.953	ng	98
80) Benzo(a)anthracene	13.89	228	110300	6.787	ng	94
82) Chrysene	13.92	228	110288	6.822	ng	97
85) Indeno(1,2,3-cd)pyrene	16.70	276	50960	4.285	ng	# 90
87) Benzo(b)fluoranthene	14.92	252	142406m	9.882	ng	
88) Benzo(k)fluoranthene	14.94	252	37392m	2.762	ng	
89) Benzo(a)pyrene	15.26	252	104391	8.183	ng	94
91) Benzo(g,h,i)perylene	17.11	276	59081	5.452	ng	95

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

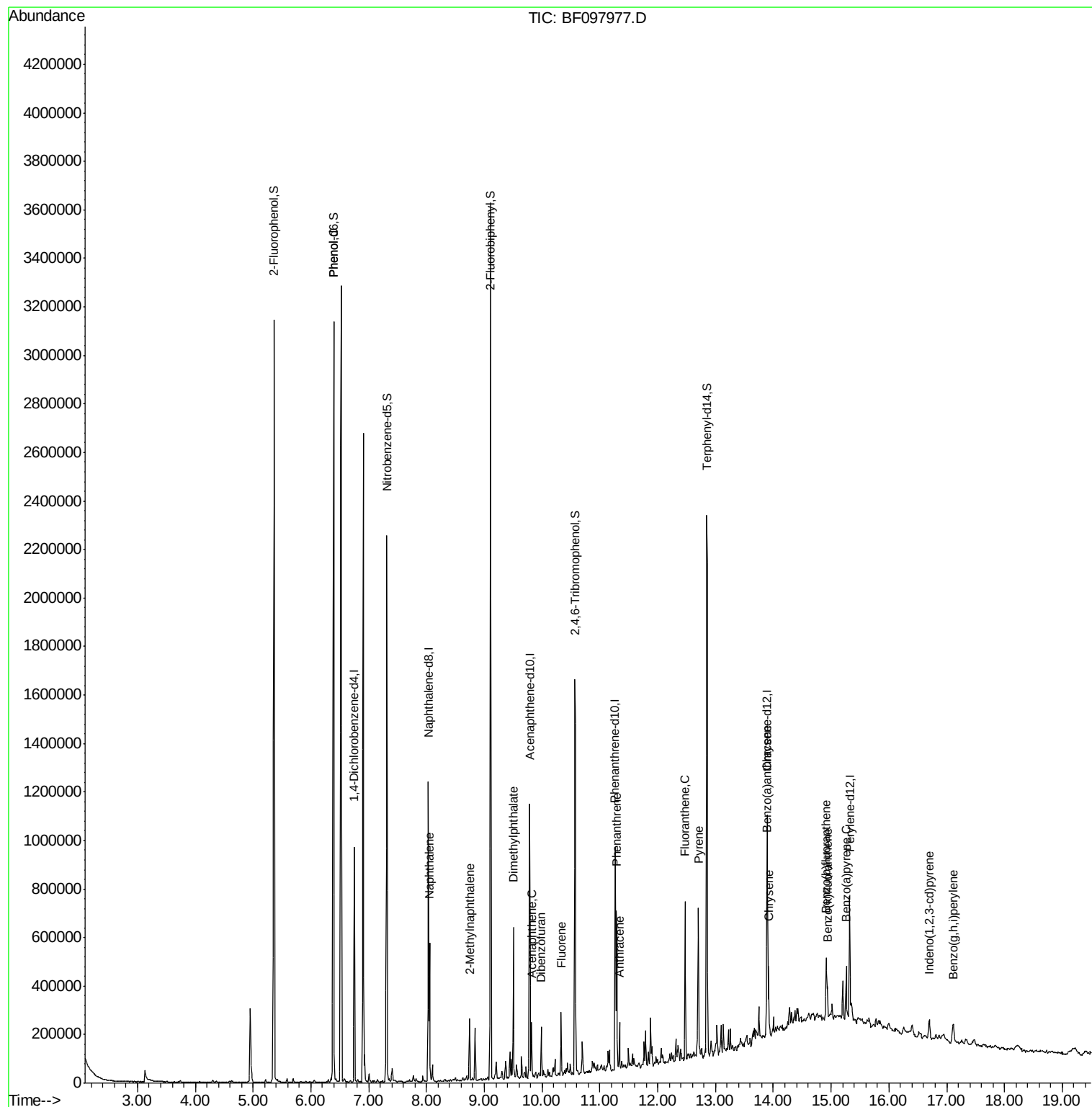
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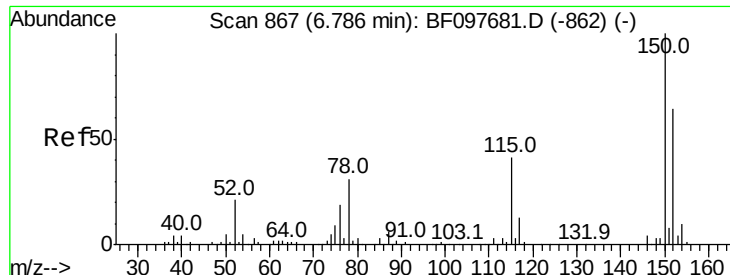
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#1

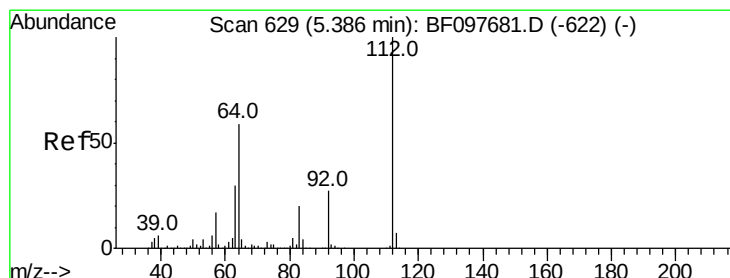
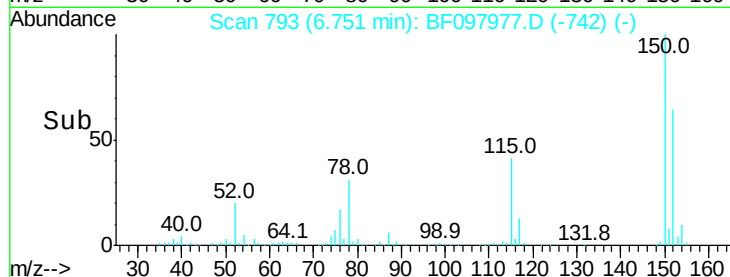
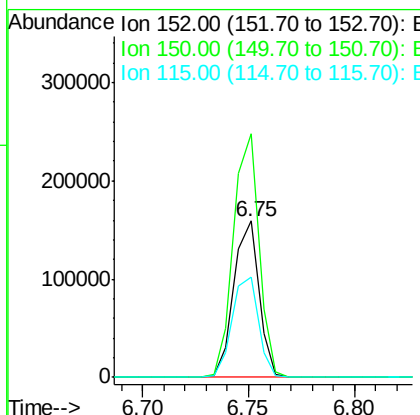
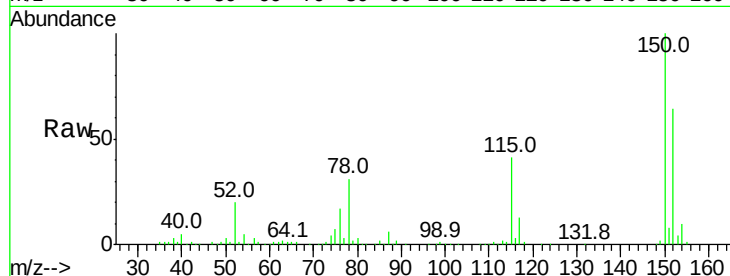
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 793
Delta R.T. -0.00 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampled :
SP-6-7

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	63.9	52.2	78.2

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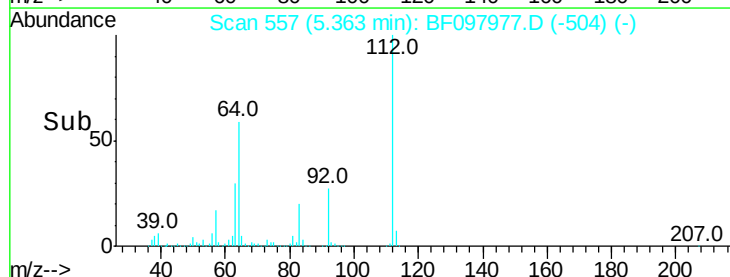
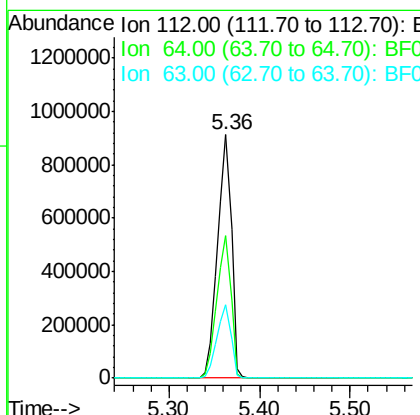
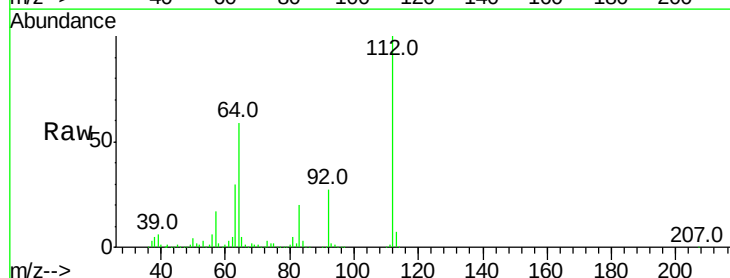
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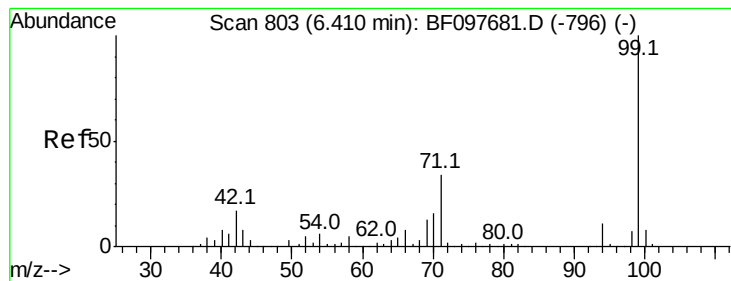


#5

2-Fluorophenol
Concen: 111.805 ng
RT: 5.36 min Scan# 557
Delta R.T. 0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.6	46.0	69.0
63	30.0	23.4	35.0





#7

Phenol-d6

Concen: 110.692 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

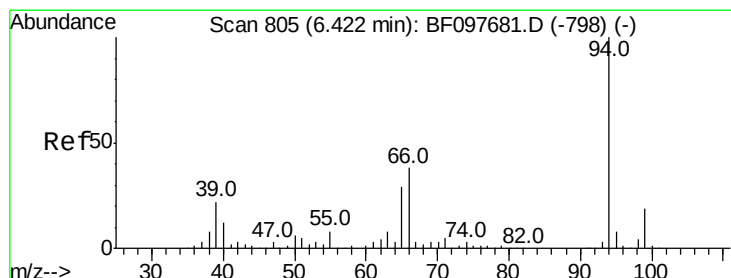
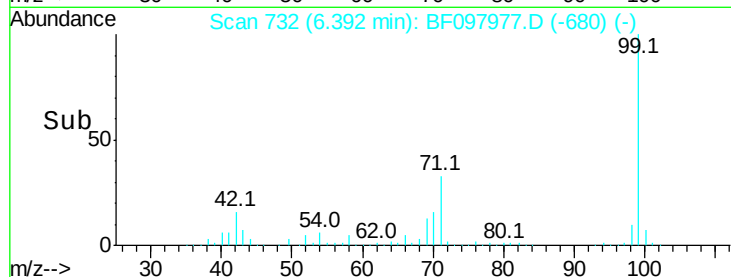
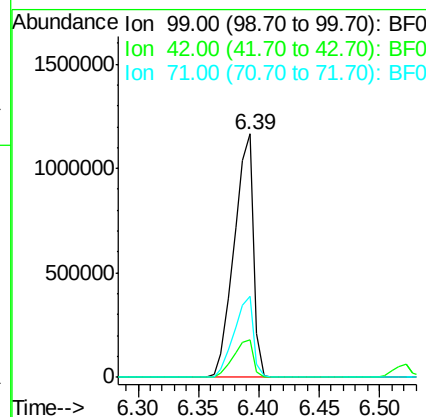
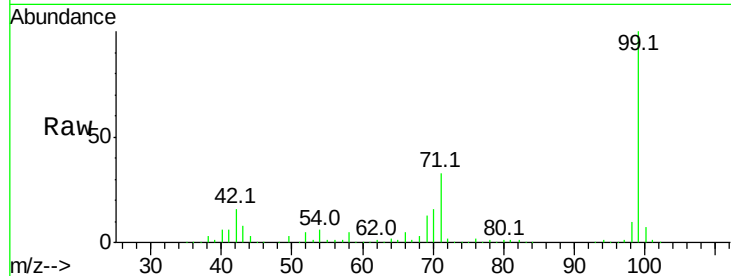
ClientSampled :

SP-6-7

Tot Ion	99	Resp	1296953
Ion	Ratio	Lower	Upper
99	100		
42	15.5	13.5	20.3
71	33.2	24.5	36.7

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#10

Phenol

Concen: 2.555 ng

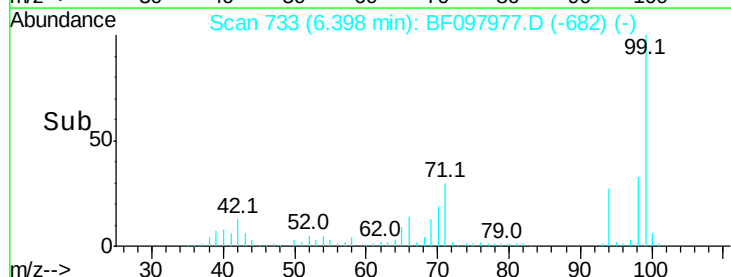
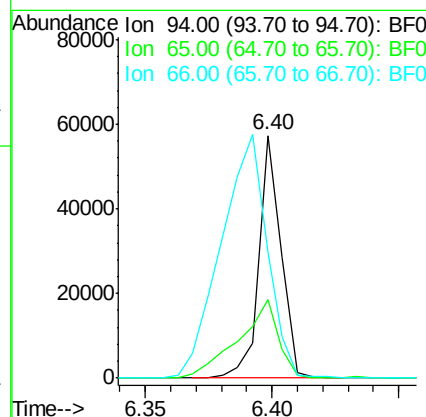
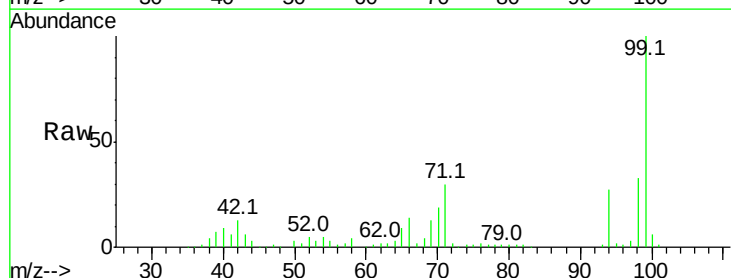
RT: 6.40 min Scan# 733

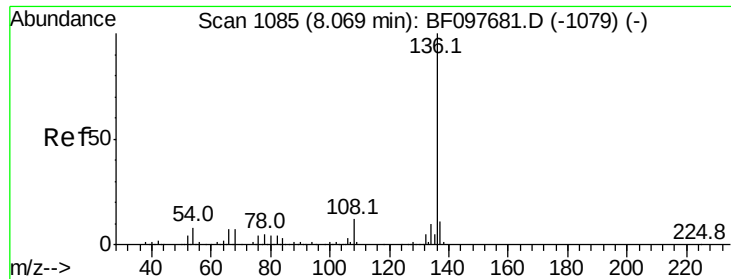
Delta R.T. -0.00 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Tgt Ion	94	Resp	35008
Ion	Ratio	Lower	Upper
94	100		
65	32.6	9.9	49.9
66	51.8	23.1	63.1





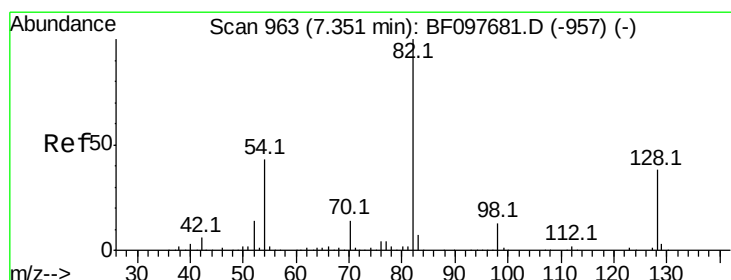
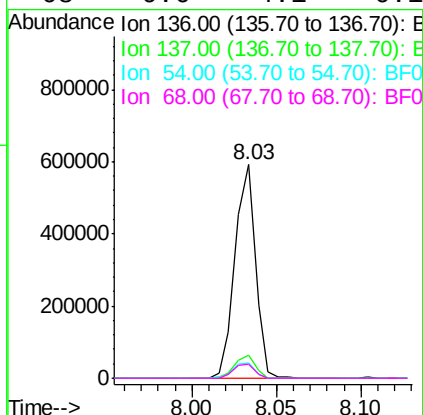
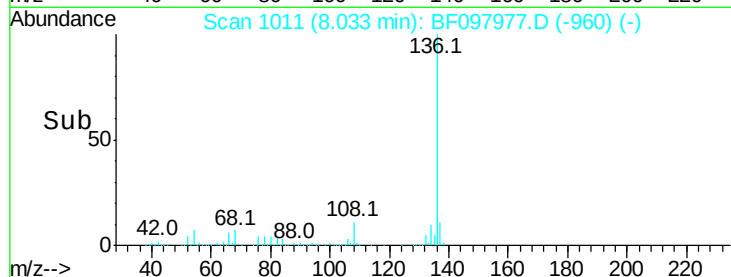
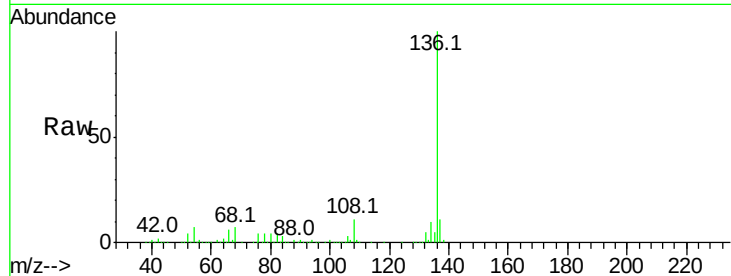
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampleId :
SP-6-7

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.9	8.5	12.7
54	7.1	4.9	7.3
68	6.6	4.1	6.1#

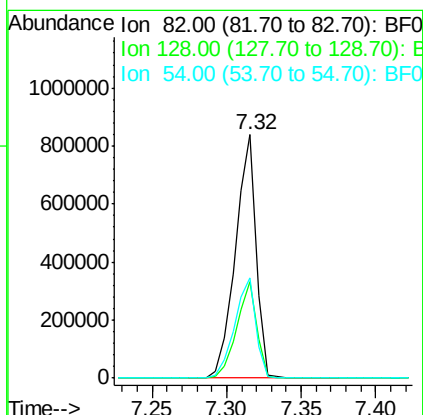
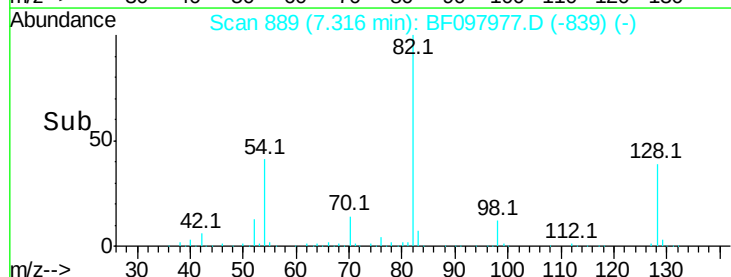
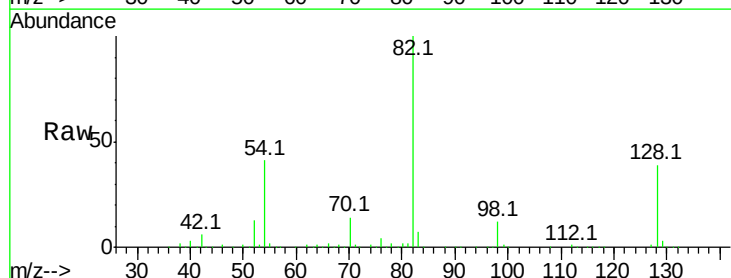
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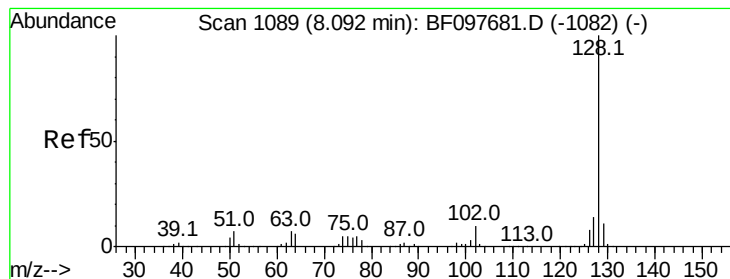
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#23
Nitrobenzene-d5
Concen: 88.573 ng
RT: 7.32 min Scan# 889
Delta R.T. -0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	39.5	34.0	51.0
54	41.4	42.2	63.2#





#31

Naphthalene

Concen: 8.147 ng

RT: 8.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

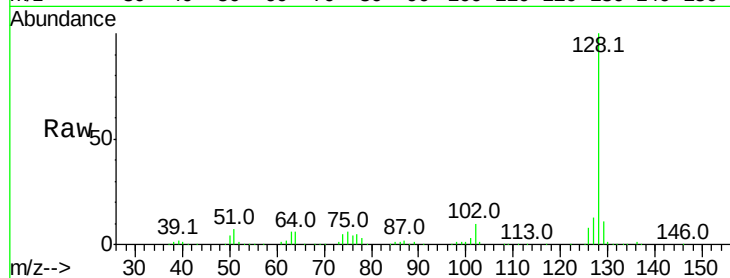
ClientSampleId :

SP-6-7

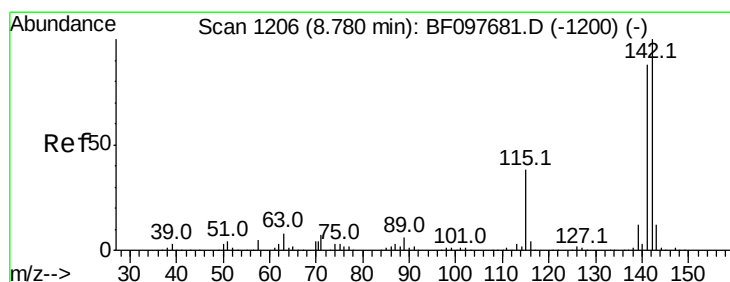
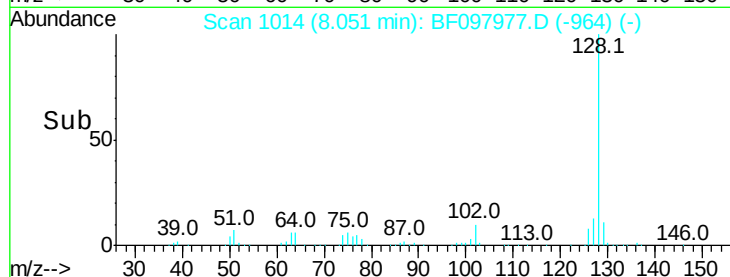
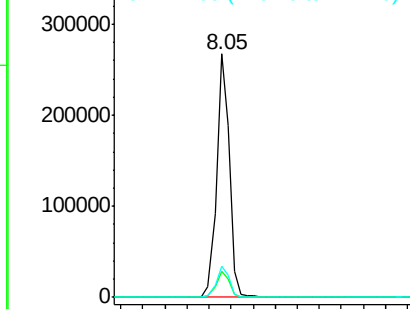
Tot Ion:	128	Resp:	212659
Ion Ratio	Lower	Upper	
128	100		
129	10.5	9.0	13.6
127	12.8	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 4.062 ng

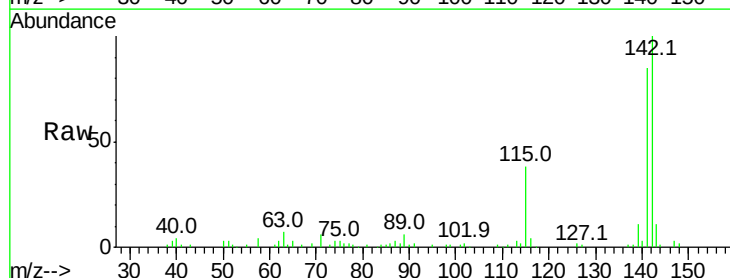
RT: 8.75 min Scan# 1132

Delta R.T. -0.00 min

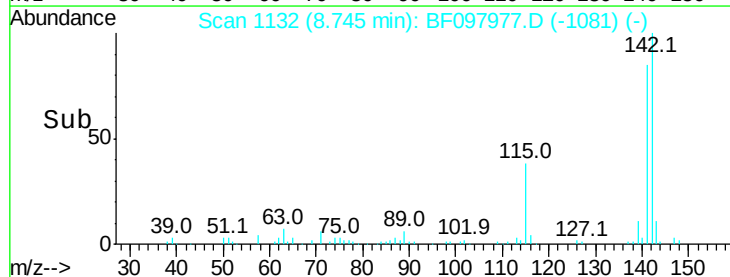
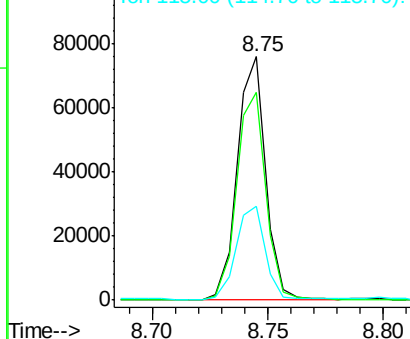
Lab File: BF097977.D

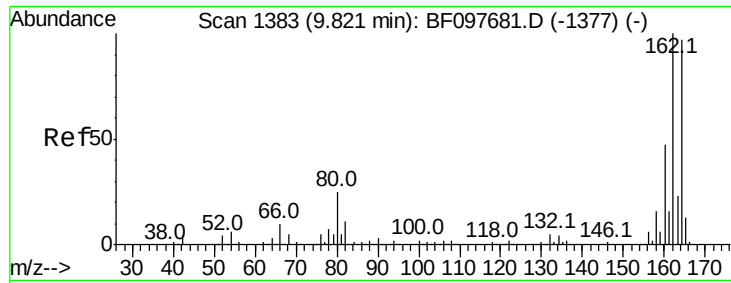
Acq: 23 Aug 2017 2:17

Tgt Ion:	142	Resp:	65014
Ion Ratio	Lower	Upper	
142	100		
141	85.4	71.3	106.9
115	38.4	27.1	40.7



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





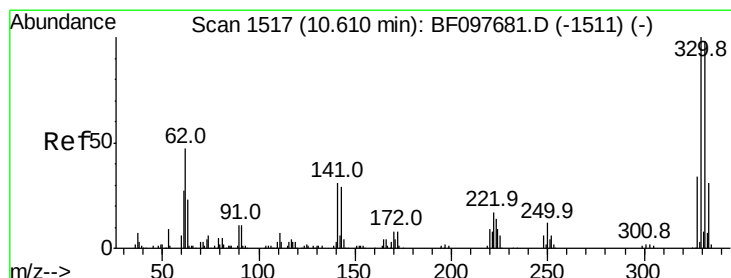
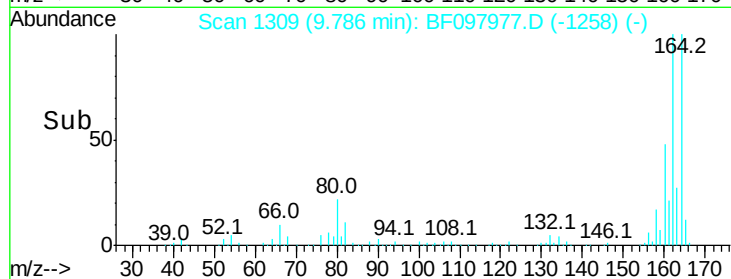
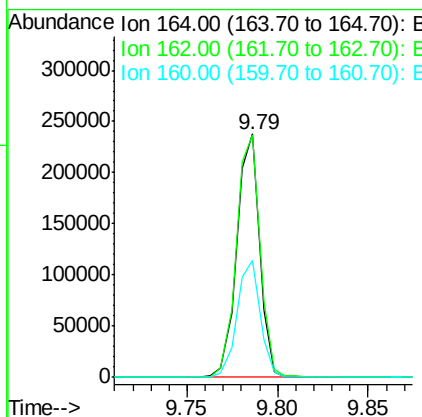
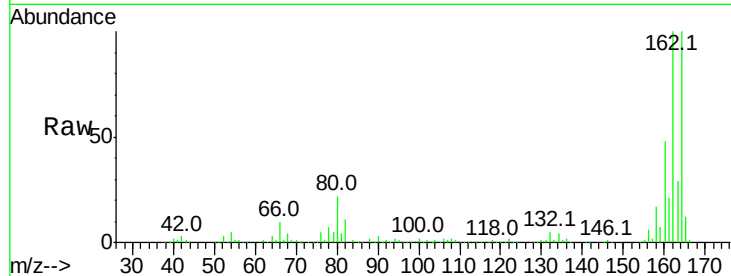
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.79 min Scan# 1309
 Delta R.T. -0.00 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Instrument :
 BNA_F
 ClientSampleId :
 SP-6-7

Tot Ion	Ratio	Resp	Lower	Upper
164	100	208049		
162	99.8	82.6	123.8	
160	48.3	36.2	54.2	

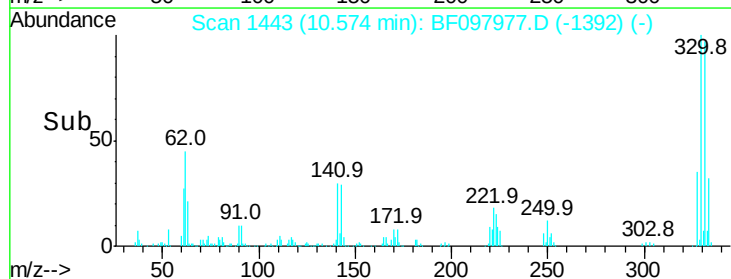
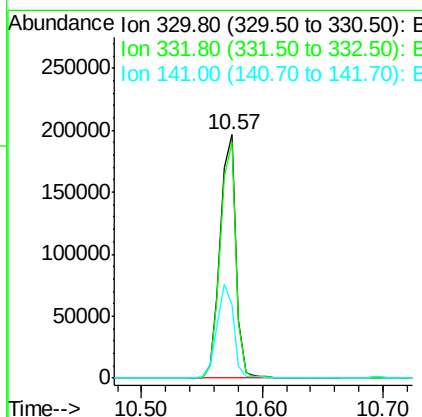
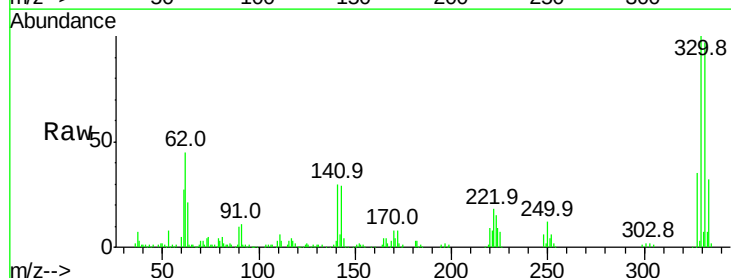
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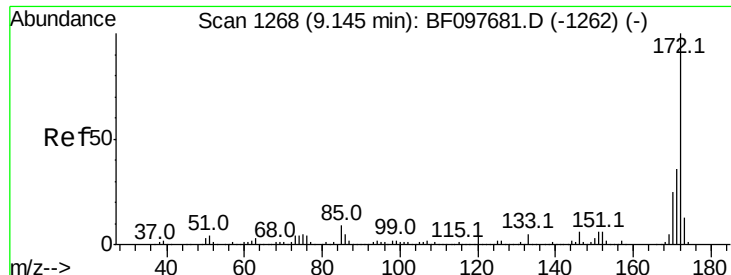
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#41
 2,4,6-Tribromophenol
 Concen: 97.913 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. -0.00 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	176749		
332	96.3	76.6	115.0	
141	39.9	31.4	47.2	





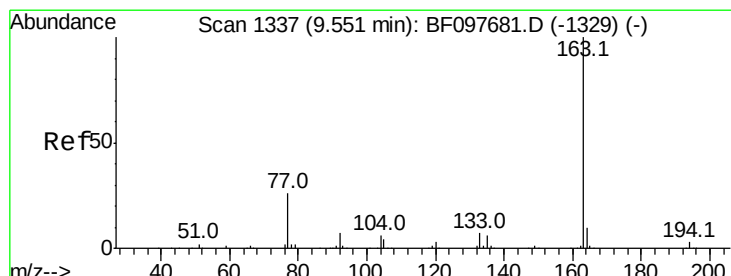
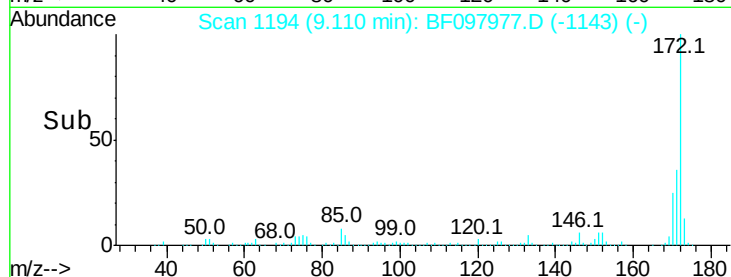
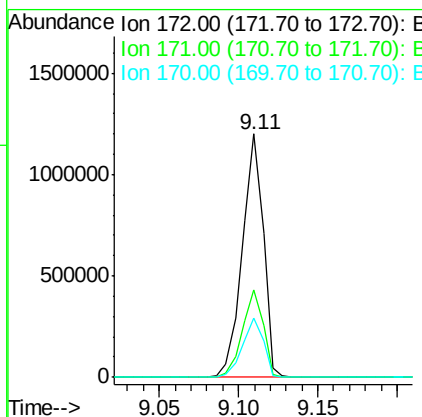
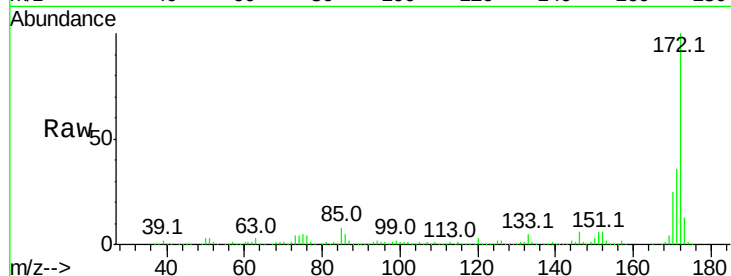
#44
2-Fluorobiphenyl
Concen: 77.666 ng
RT: 9.11 min Scan# 1194
Delta R.T. -0.00 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampleId :
SP-6-7

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	24.6	19.8	29.8

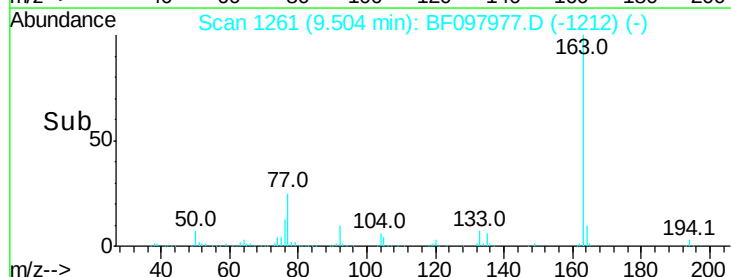
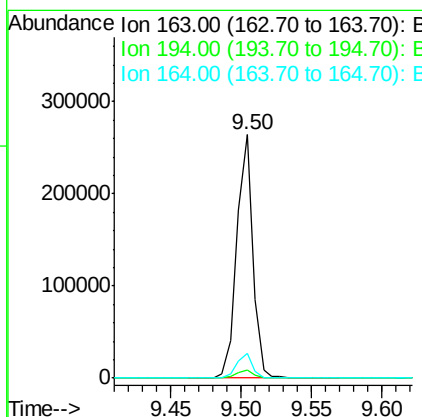
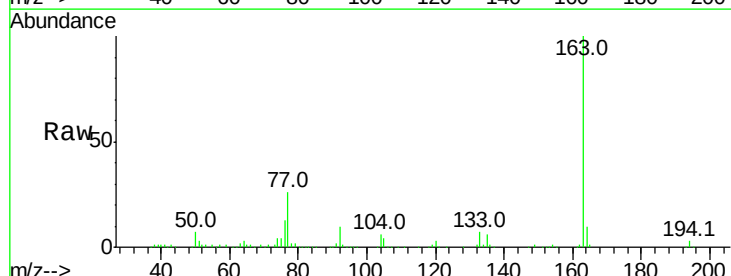
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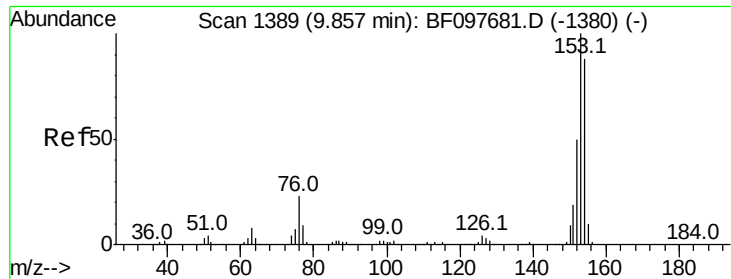
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#49
Dimethylphthalate
Concen: 13.802 ng
RT: 9.50 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.9	8.4	12.6





#51

Acenaphthene

Concen: 2.778 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

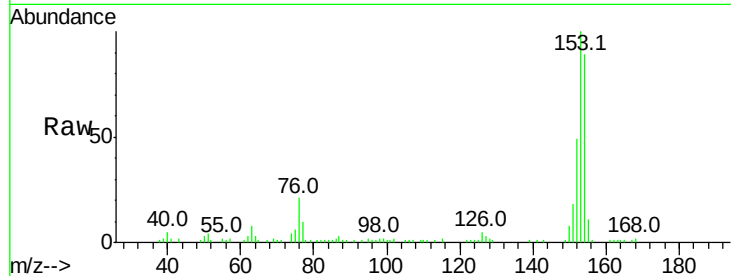
ClientSampleId :

SP-6-7

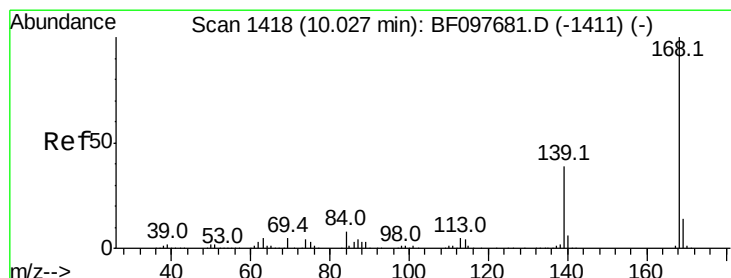
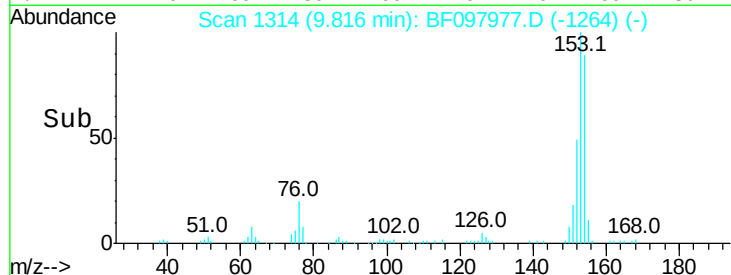
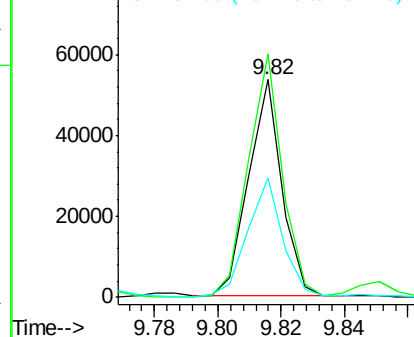
Tot Ion:	154	Resp:	38574
Ion Ratio	Lower	Upper	
154	100		
153	111.9	90.5	135.7
152	55.2	43.6	65.4

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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: 3.016 ng

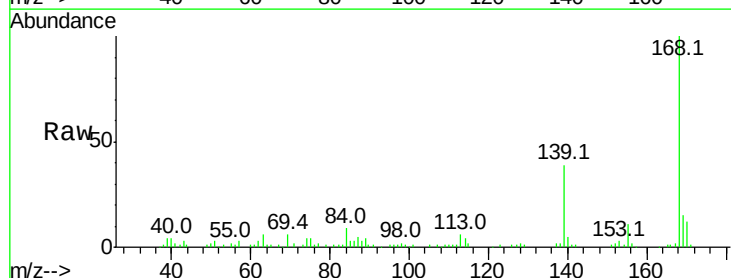
RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

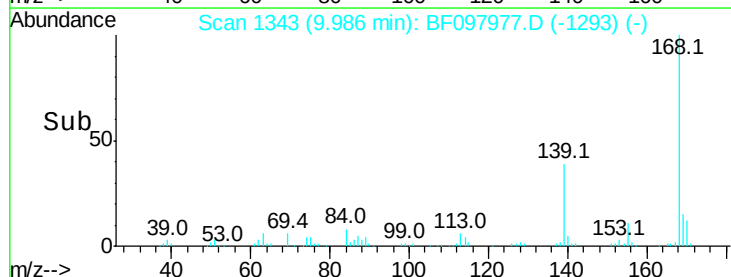
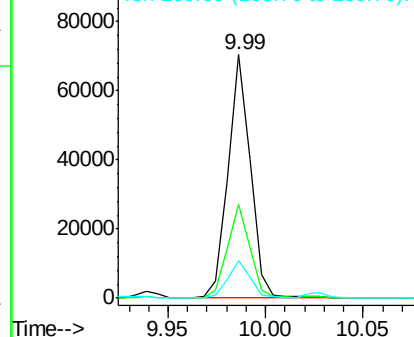
Lab File: BF097977.D

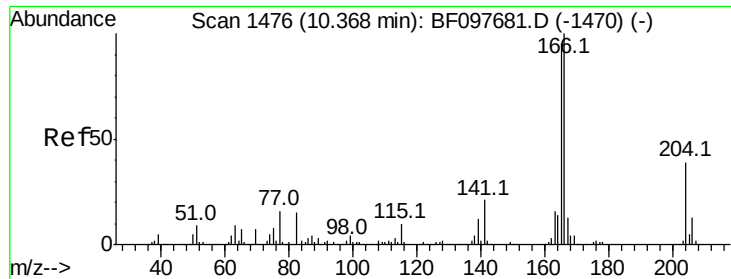
Acq: 23 Aug 2017 2:17

Tgt Ion:	168	Resp:	56126
Ion Ratio	Lower	Upper	
168	100		
139	38.7	30.6	45.8
169	15.2	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





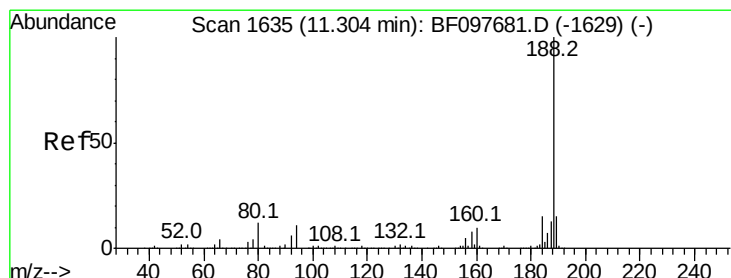
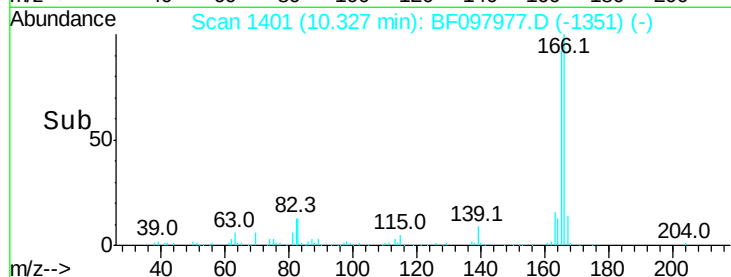
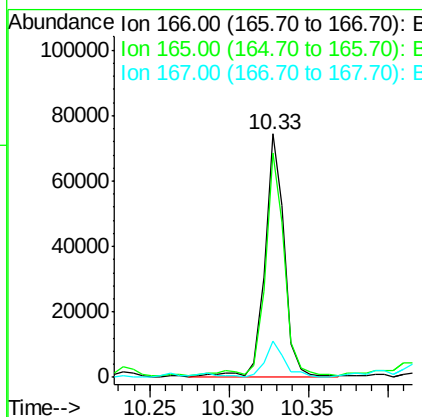
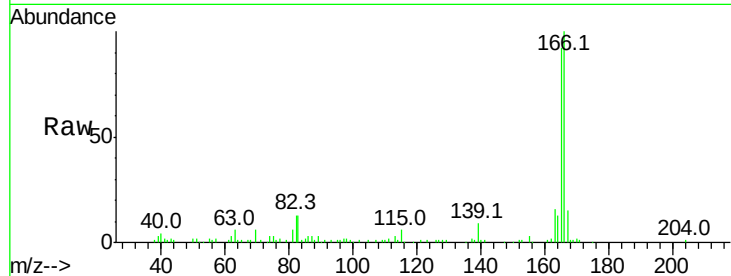
#57
 Fluorene
 Concen: 4.477 ng
 RT: 10.33 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Instrument :
 BNA_F
 ClientSampled :
 SP-6-7

Tot Ion	Ratio	Resp	Lower	Upper
166	100	64401		
165	92.1		78.8	118.2
167	14.6		10.6	16.0

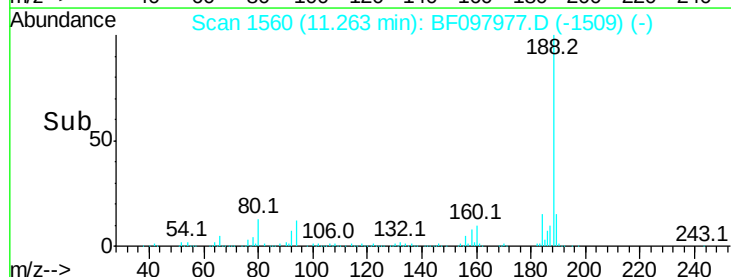
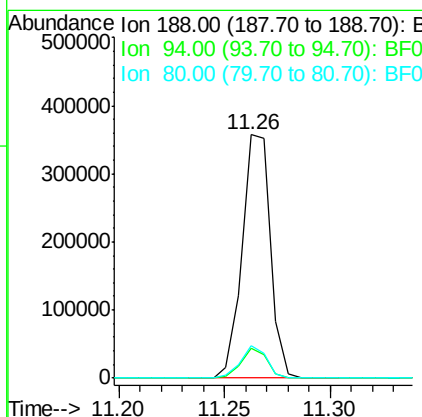
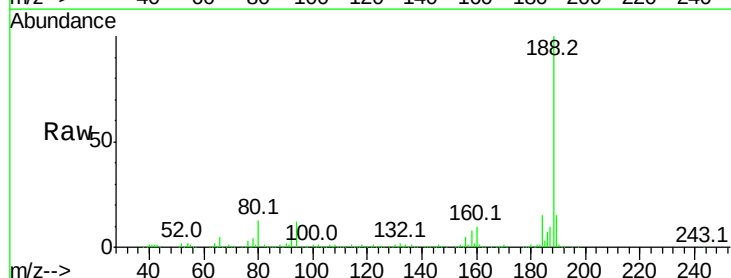
Manual Integrations
 APPROVED

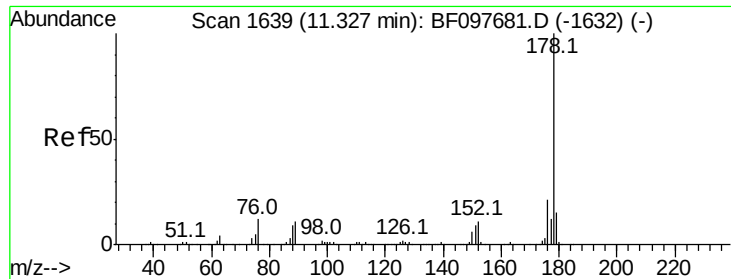
Sohil
 8/23/2017 3:03:58 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.26 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	331590		
94	12.2		9.4	14.2
80	13.4		10.2	15.2





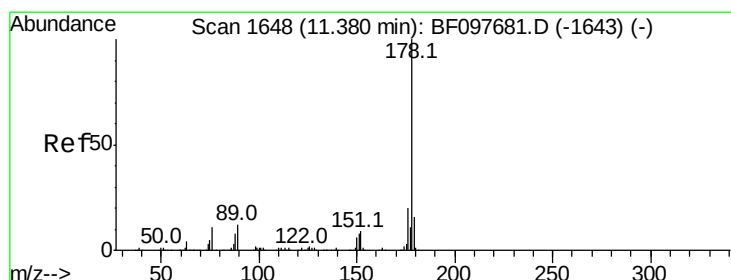
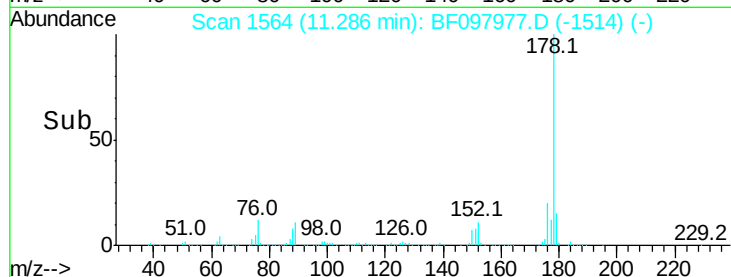
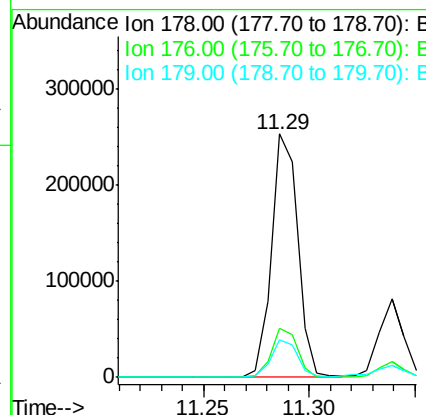
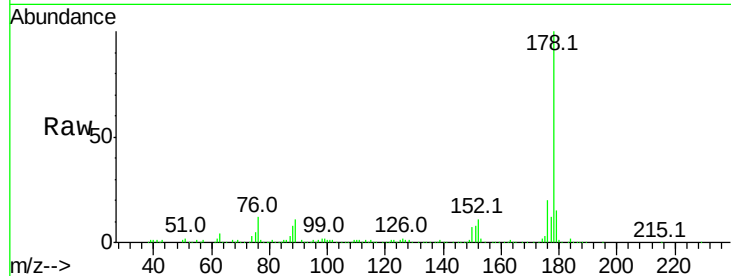
#70
Phenanthrene
Concen: 12.477 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampled :
SP-6-7

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	15.4	12.6	19.0

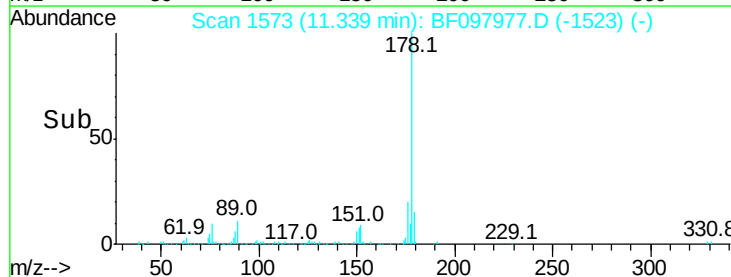
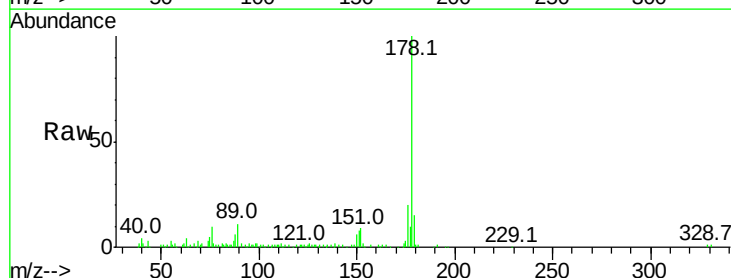
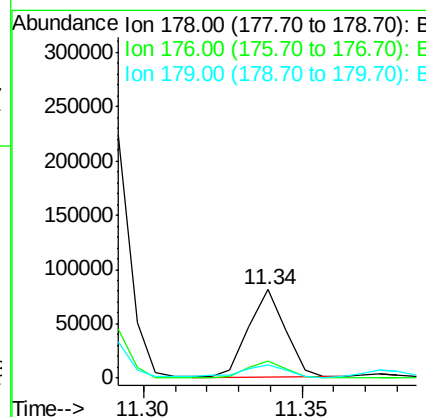
Manual Integrations
APPROVED

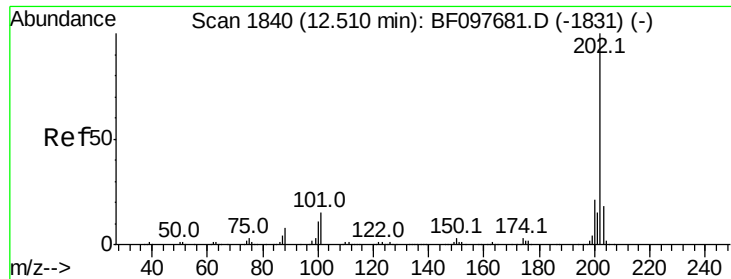
Sohil
8/23/2017 3:03:58 PM



#71
Anthracene
Concen: 3.614 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.3	12.7	19.1





#74

Fluoranthene

Concen: 12.589 ng

RT: 12.47 min Scan# 1766

Delta R.T. -0.00 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

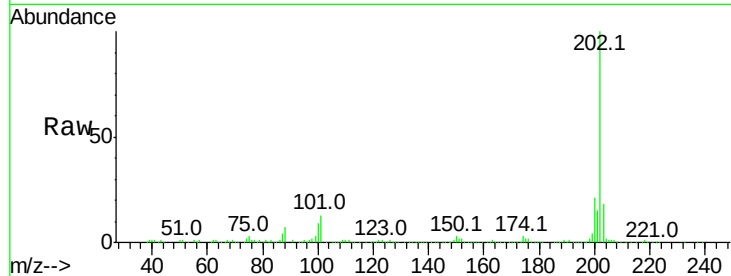
ClientSampleId :

SP-6-7

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.0	0.0	33.2
203	18.1	0.0	38.1

Manual Integrations
APPROVED

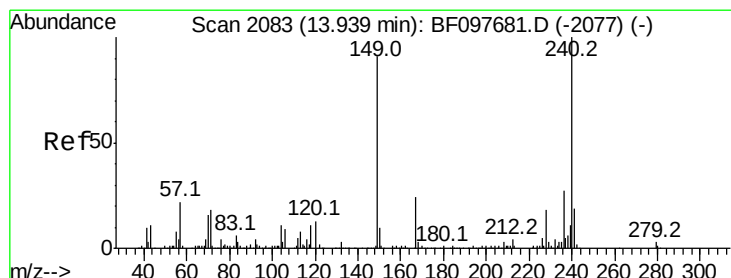
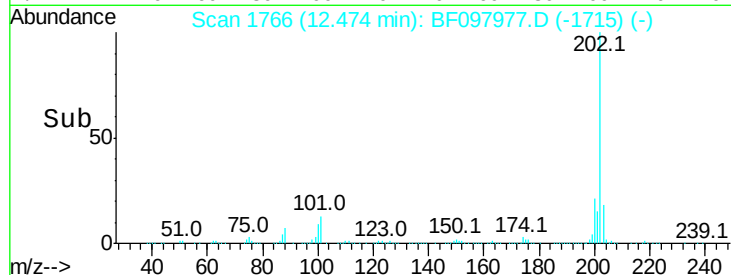
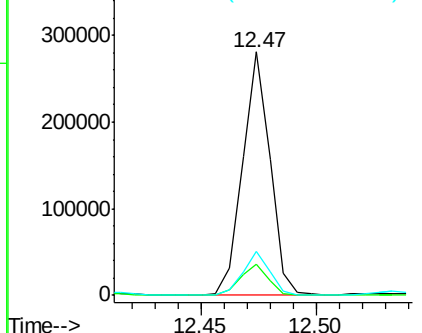
Sohil
8/23/2017 3:03:58 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF097977.D

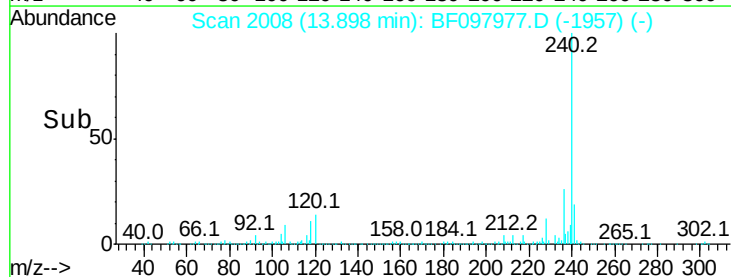
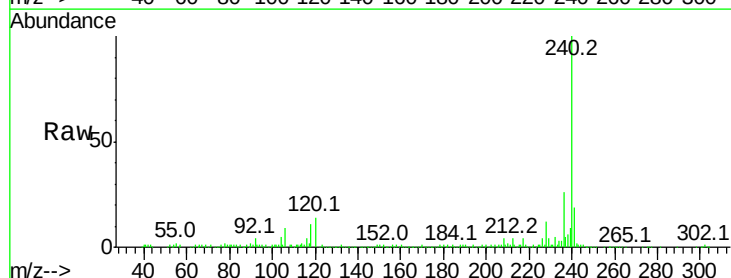
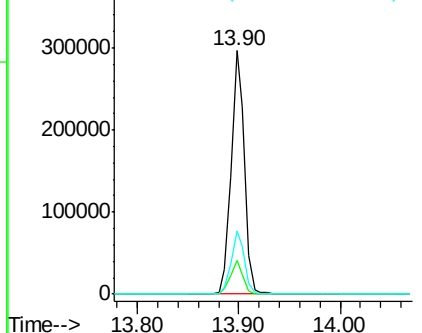
Acq: 23 Aug 2017 2:17

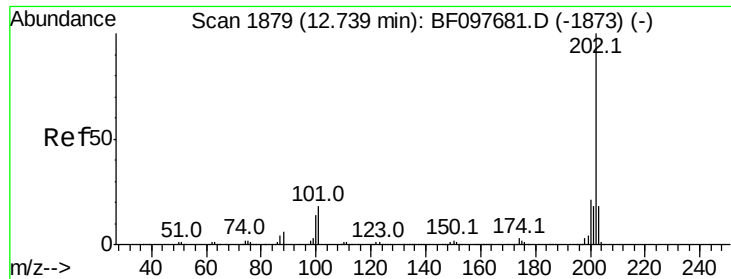
Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.9	5.8	8.8#
236	26.0	20.5	30.7

Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.953 ng

RT: 12.70 min Scan# 1805

Delta R.T. -0.00 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

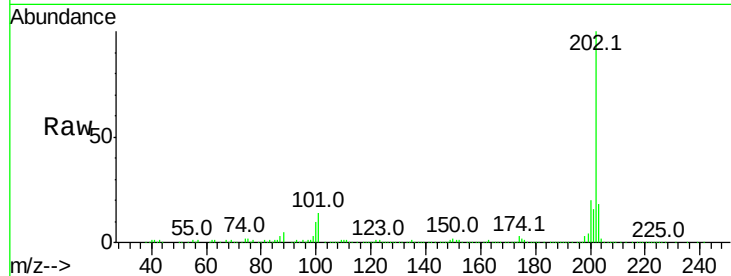
ClientSampled :

SP-6-7

Tot Ion:	202	Resp:	242931
Ion Ratio		Lower	Upper
202	100		
200	20.4	17.6	26.4
203	17.9	14.4	21.6

Manual Integrations
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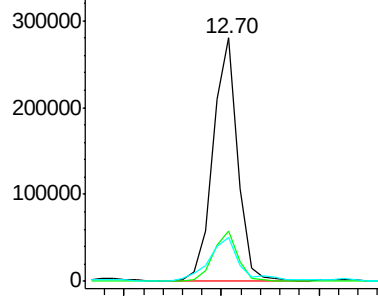
Sohil
8/23/2017 3:03:58 PM



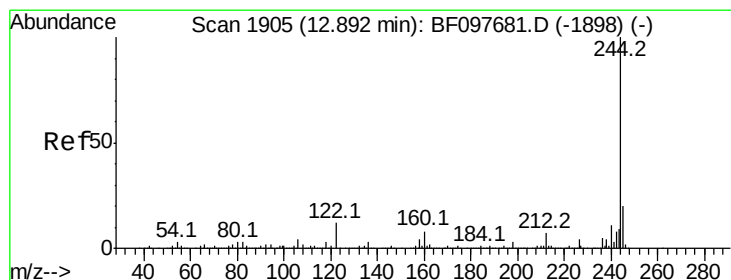
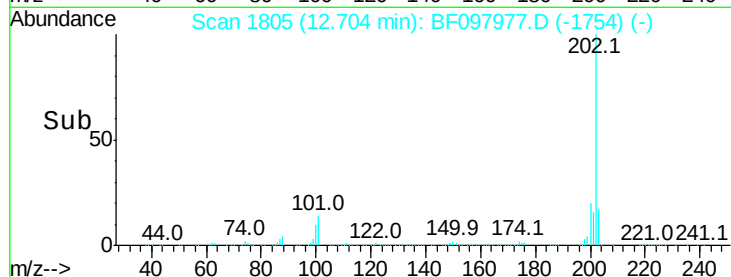
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 54.045 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BF097977.D

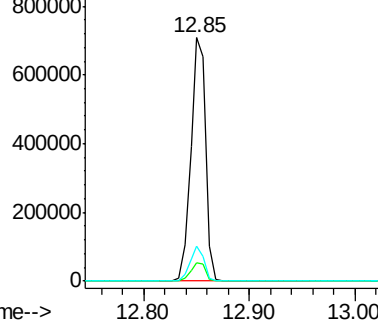
Acq: 23 Aug 2017 2:17

Tgt Ion:	244	Resp:	702790
Ion Ratio		Lower	Upper
244	100		
212	7.5	6.0	9.0
122	14.1	10.3	15.5

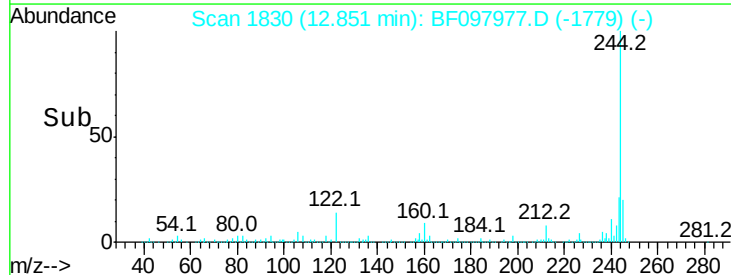
Abundance Ion 244.00 (243.70 to 244.70): E

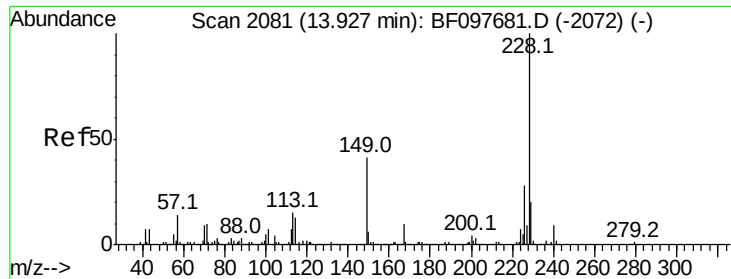
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





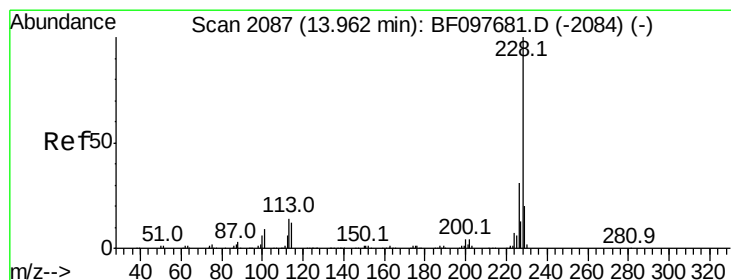
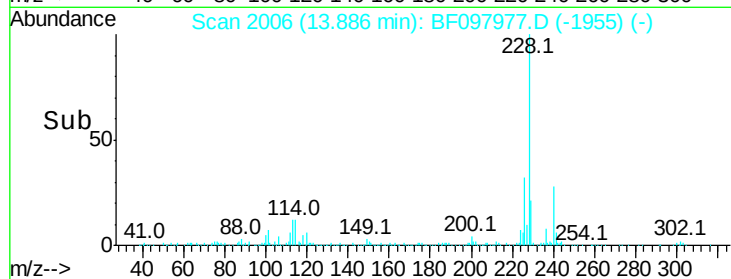
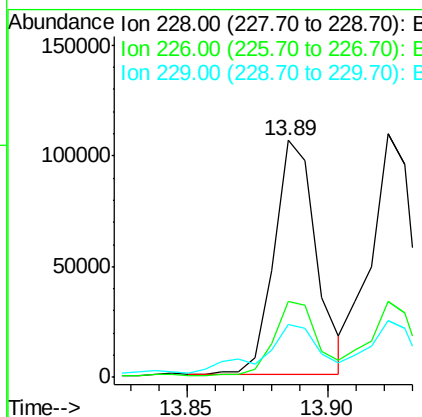
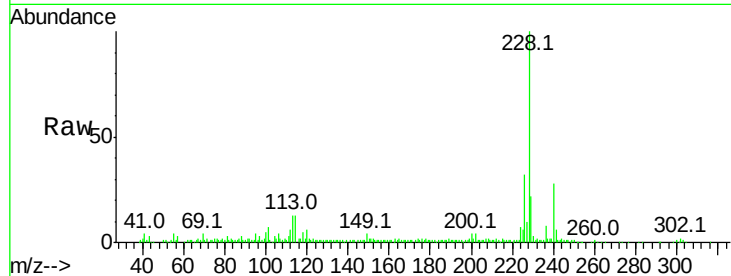
#80
Benzo(a)anthracene
Concen: 6.787 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampled :
SP-6-7

Tot Ion	Ratio	Resp	Lower	Upper
228	100	110300		
226	31.9	22.6	33.8	
229	22.3	16.3	24.5	

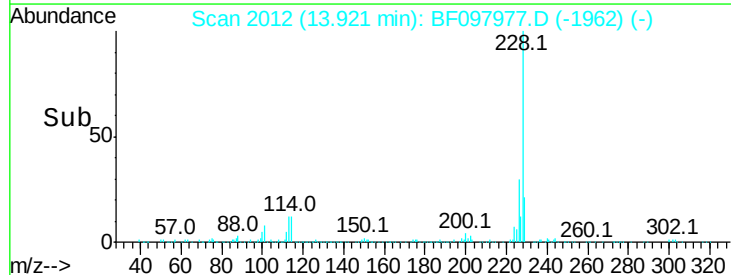
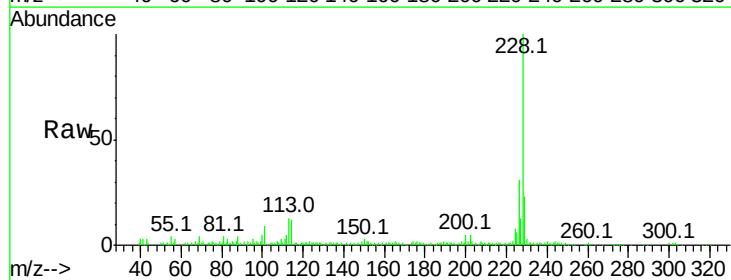
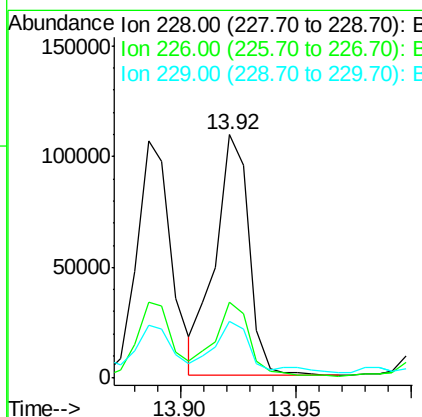
Manual Integrations
APPROVED

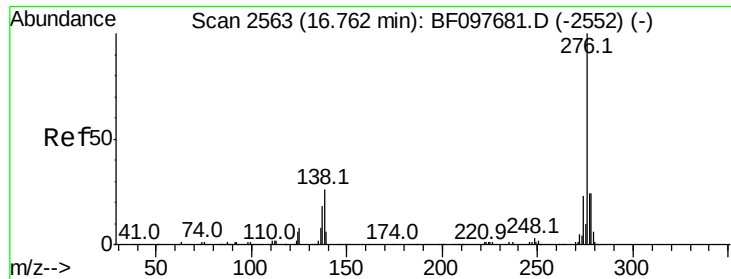
Sohil
8/23/2017 3:03:58 PM



#82
Chrysene
Concen: 6.822 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	110288		
226	31.3	24.9	37.3	
229	23.2	15.8	23.6	





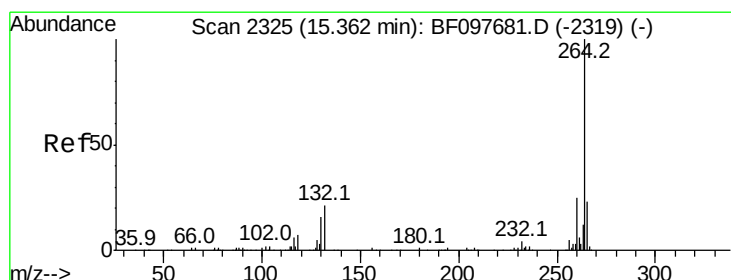
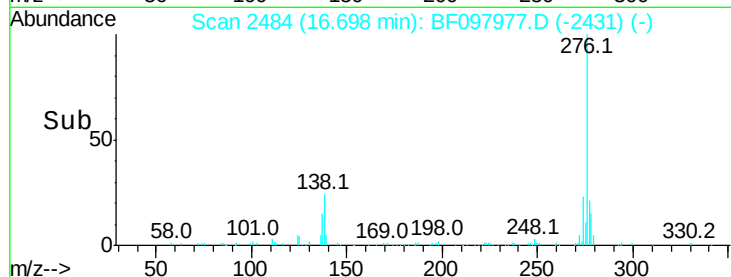
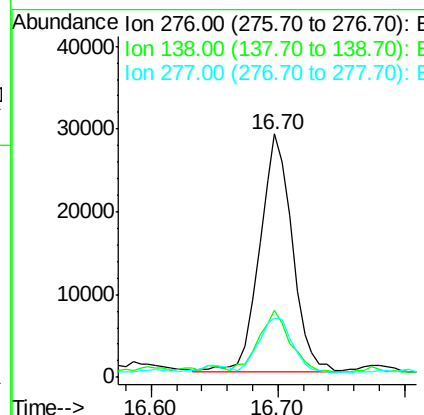
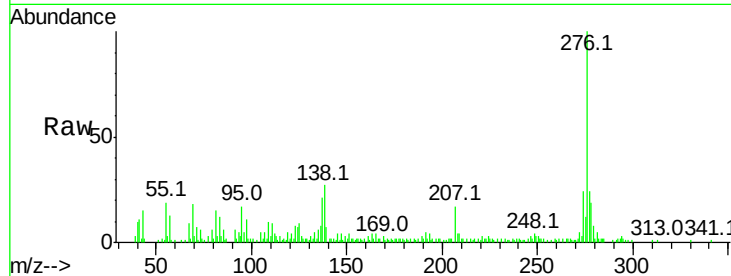
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.285 ng
 RT: 16.70 min Scan# 2484
 Delta R.T. 0.01 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Instrument :
 BNA_F
 ClientSampleId :
 SP-6-7

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.0	27.8	41.6#
277	25.1	20.2	30.4

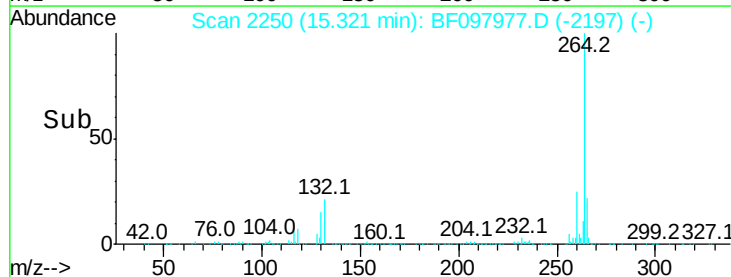
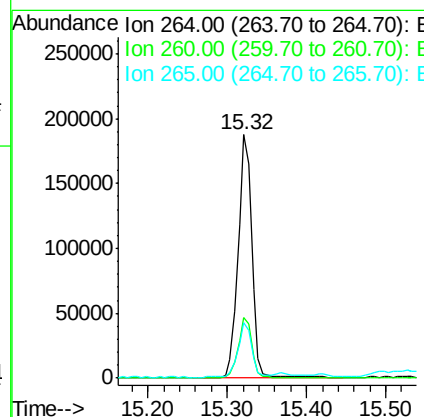
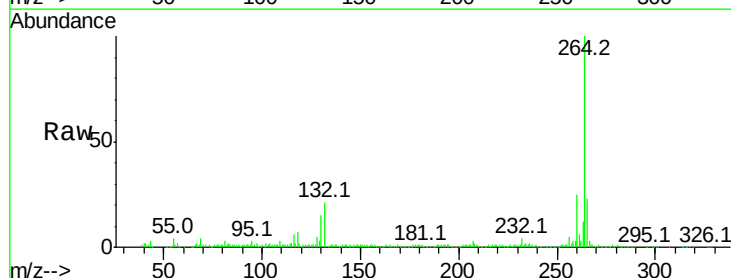
Manual Integrations
 APPROVED

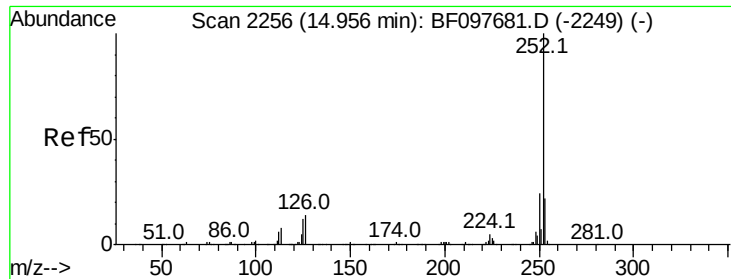
Sohil
 8/23/2017 3:03:58 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.32 min Scan# 2250
 Delta R.T. 0.01 min
 Lab File: BF097977.D
 Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.5	29.3
265	22.7	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 9.882 ng m

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Instrument :

BNA_F

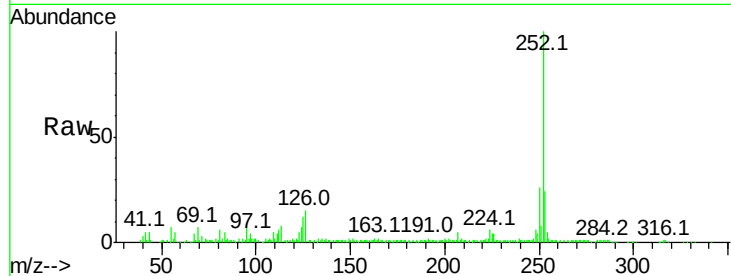
ClientSampled :

SP-6-7

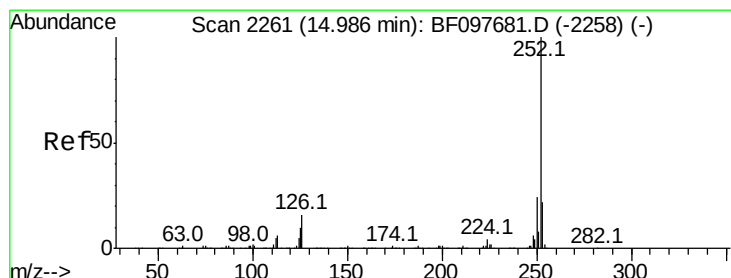
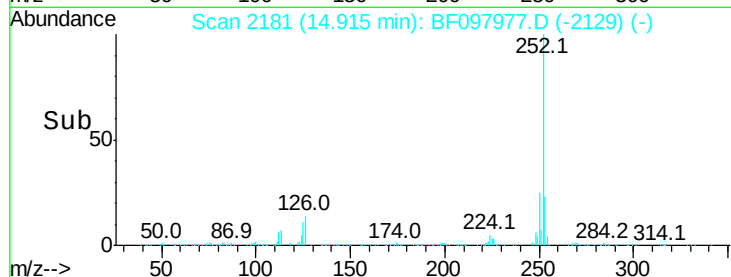
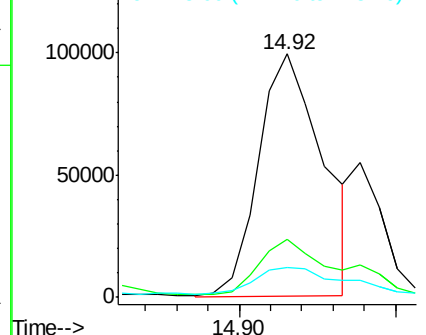
Tot Ion:	252	Resp:	142406
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.1	27.1
125	12.3	9.8	14.8

Manual Integrations
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8/23/2017 3:03:58 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 2.762 ng m

RT: 14.94 min Scan# 2185

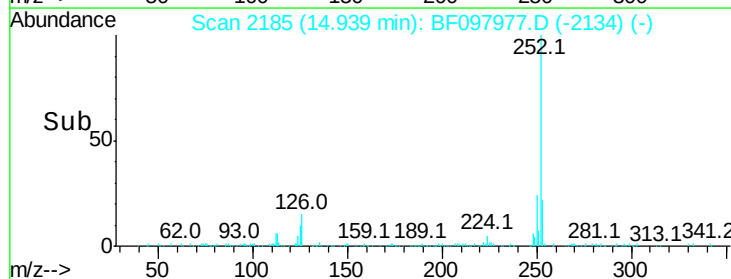
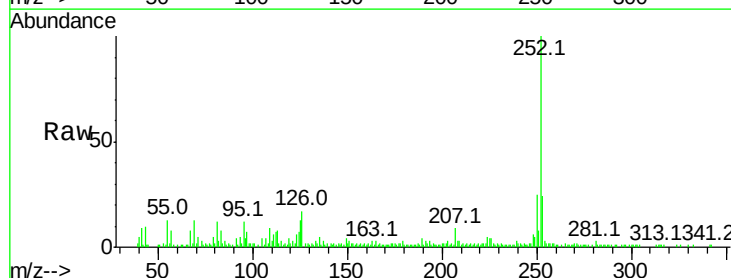
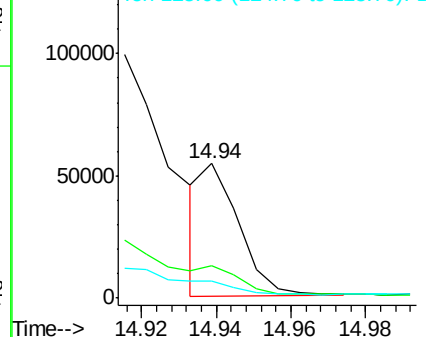
Delta R.T. -0.00 min

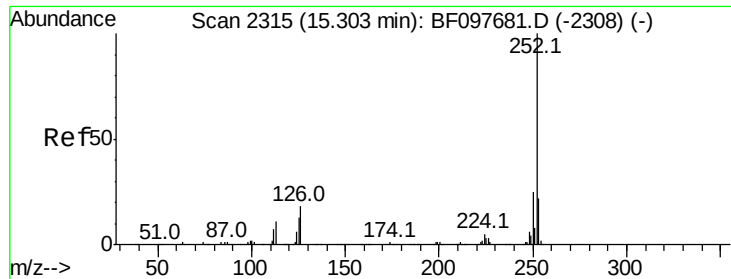
Lab File: BF097977.D

Acq: 23 Aug 2017 2:17

Tgt Ion:	252	Resp:	37392
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.4	27.6
125	12.8	13.1	19.7#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





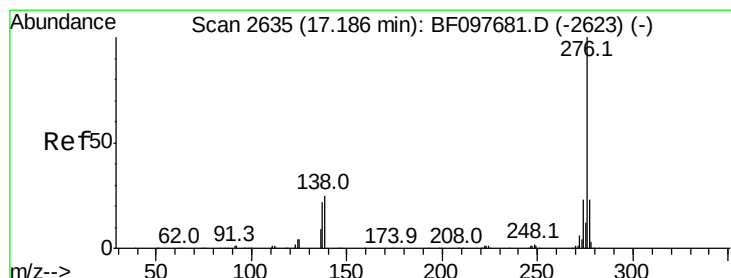
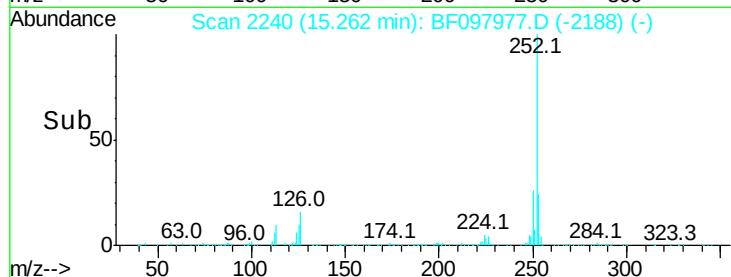
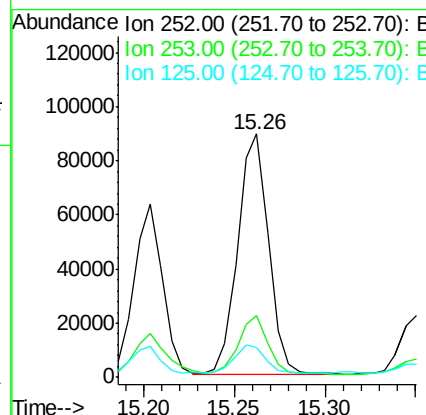
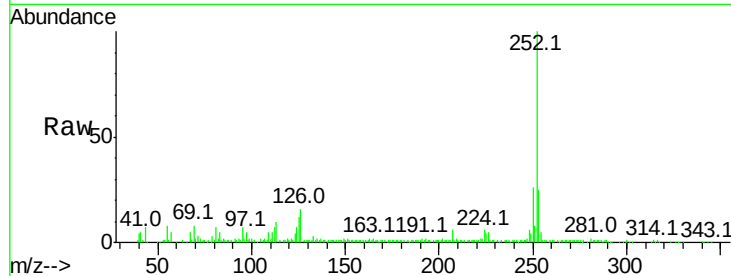
#89
Benzo(a)pyrene
Concen: 8.183 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.01 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Instrument :
BNA_F
ClientSampleId :
SP-6-7

Tot Ion	Ratio	Resp	Lower	Upper
252	100	104391		
253	25.4	17.5	26.3	
125	12.1	11.0	16.4	

Manual Integrations
APPROVED

Sohil
8/23/2017 3:03:58 PM



#91
Benzo(g,h,i)perylene
Concen: 5.452 ng
RT: 17.11 min Scan# 2554
Delta R.T. -0.00 min
Lab File: BF097977.D
Acq: 23 Aug 2017 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	59081		
277	23.2	18.6	28.0	
138	27.3	25.4	38.0	

