

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097349.D
 Acq On : 4 Aug 2017 9:03
 Operator : SJ/JU
 Sample : I4540-09DL 50X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 72-11948DL

Manual Integrations
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Sohil
 8/4/2017 5:31:14 PM

Quant Time: Aug 04 11:40:52 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	101276	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	358588	20.00	ng	-0.06
38) Acenaphthene-d10	9.47	164	138152	20.00	ng	-0.06
63) Phenanthrene-d10	10.94	188	205410	20.00	ng	-0.06
75) Chrysene-d12	13.57	240	159518	20.00	ng	-0.06
86) Perylene-d12	14.91	264	112648	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	13874m	2.07	ng	-0.02
7) Phenol-d6	6.15	99	18764	2.45	ng	-0.02
23) Nitrobenzene-d5	7.03	82	6711	1.10	ng	-0.05
41) 2,4,6-Tribromophenol	10.26	330	1891	1.73	ng	-0.06
44) 2-Fluorobiphenyl	8.80	172	16558	2.03	ng	-0.06
78) Terphenyl-d14	12.52	244	11889	1.52	ng	-0.06
Target Compounds						
31) Naphthalene	7.75	128	84307	4.988	ng	99
51) Acenaphthene	9.50	154	61419	7.823	ng	96
54) Dibenzofuran	9.67	168	44329	4.239	ng	99
57) Fluorene	10.02	166	53937	6.862	ng	98
70) Phenanthrene	10.97	178	380865	34.605	ng	98
71) Anthracene	11.02	178	144966	12.860	ng	96
72) Carbazole	11.18	167	60568	5.463	ng	98
74) Fluoranthene	12.15	202	366674	34.008	ng	98
77) Pyrene	12.37	202	297706	22.797	ng	100
80) Benzo(a)anthracene	13.56	228	138937	13.461	ng	99
82) Chrysene	13.59	228	108581	10.773	ng	96
85) Indeno(1,2,3-cd)pyrene	16.11	276	35355	4.091	ng	96
87) Benzo(b)fluoranthene	14.56	252	110866m	16.372	ng	
88) Benzo(k)fluoranthene	14.58	252	28637m	4.438	ng	
89) Benzo(a)pyrene	14.86	252	74920	12.089	ng	# 96
90) Dibenzo(a,h)anthracene	16.12	278	11001m	2.165	ng	
91) Benzo(a,h,i)perylene	16.47	276	31365	5.885	ng	98

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

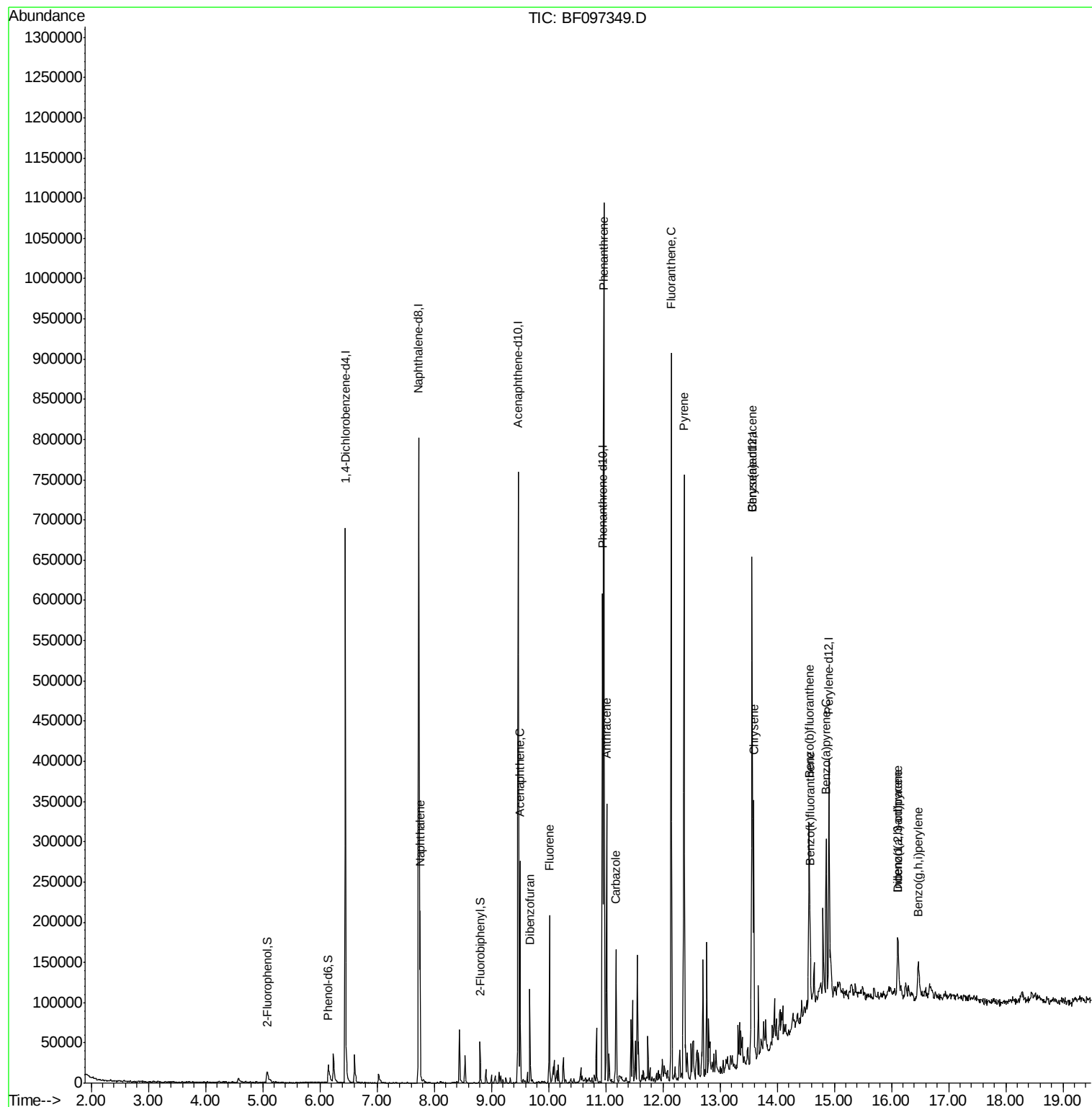
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
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ALS Vial : 28 Sample Multiplier: 1

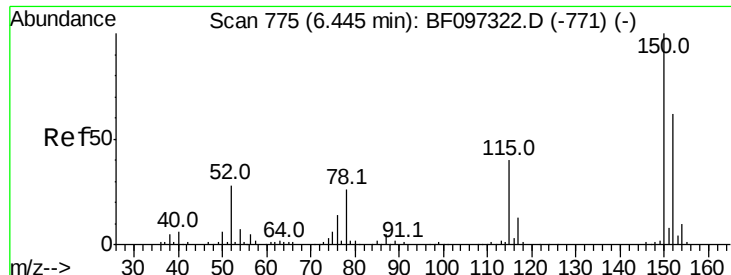
Instrument :
BNA_F
ClientSampleId :
72-11948DL

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#1

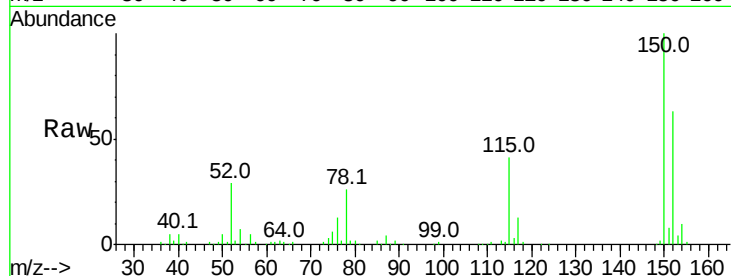
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.05 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

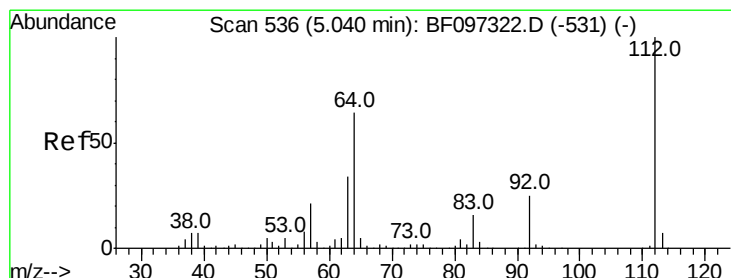
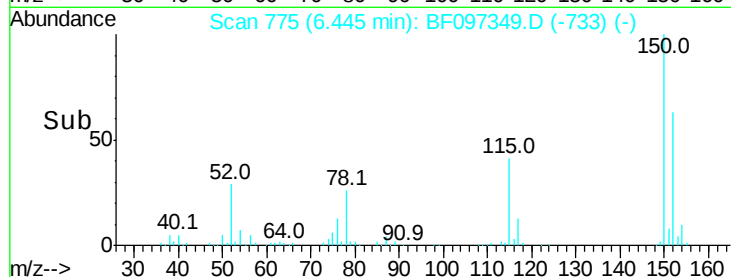
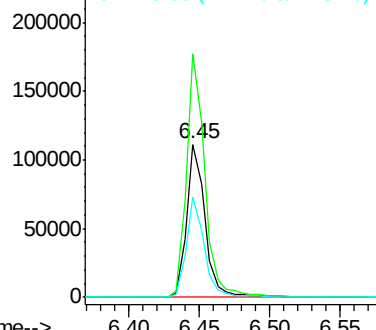
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	126.2	189.2
115	65.3	52.2	78.2

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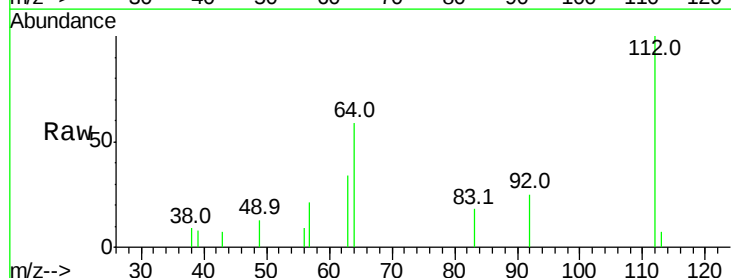
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



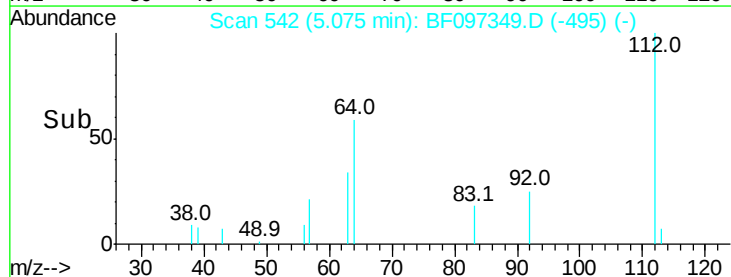
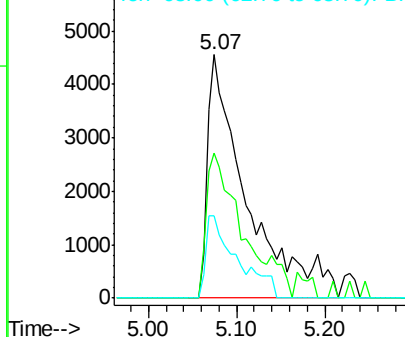
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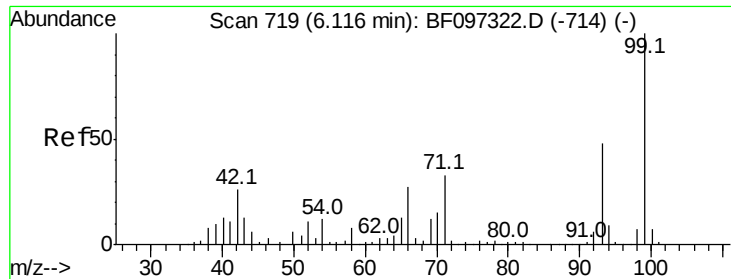
2-Fluorophenol
Concen: 2.065 ng m
RT: 5.07 min Scan# 542
Delta R.T. -0.02 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	46.0	69.0
63	33.6	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 2.447 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Instrument :

BNA_F

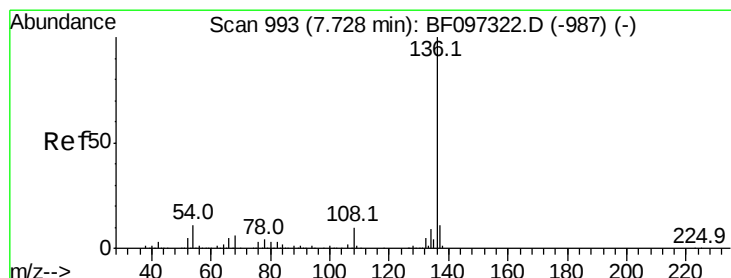
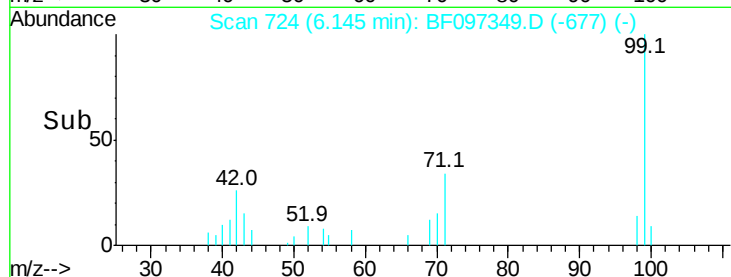
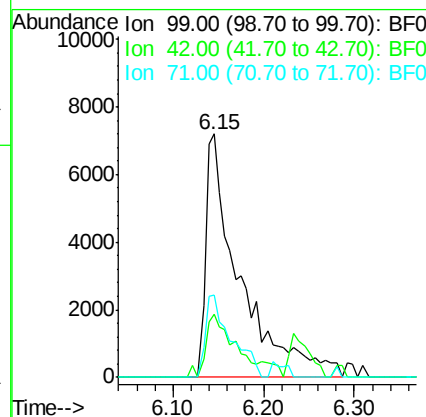
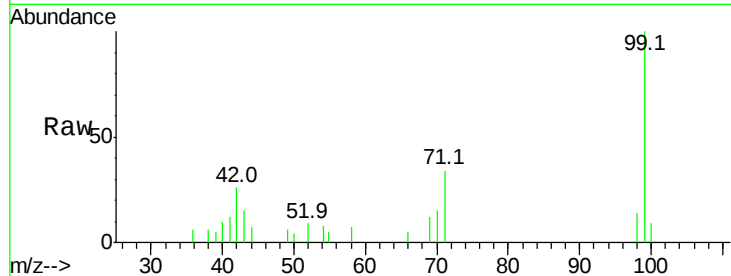
ClientSampleId :

72-11948DL

Tot Ion:	99	Resp:	18764
Ion Ratio	Lower	Upper	
99	100		
42	25.7	13.5	20.3#
71	33.7	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

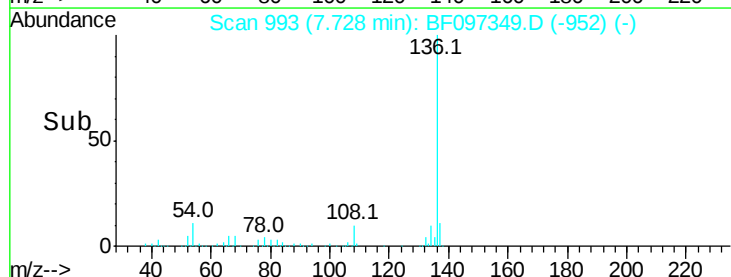
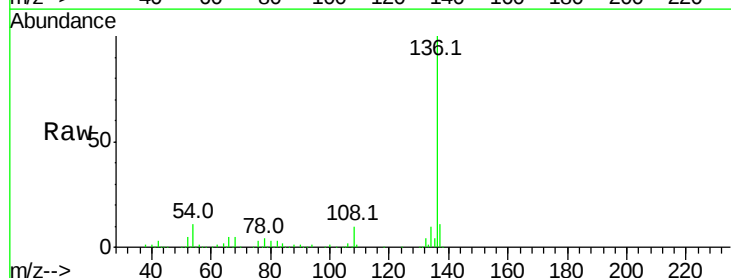
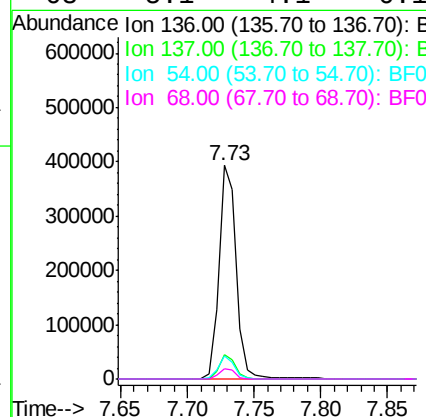
RT: 7.73 min Scan# 993

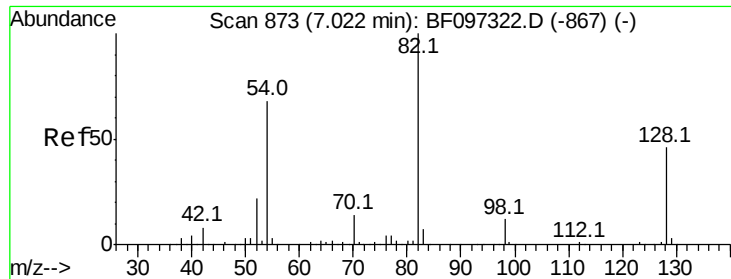
Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Tgt Ion:	136	Resp:	358588
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.5	12.7
54	11.1	4.9	7.3#
68	5.1	4.1	6.1





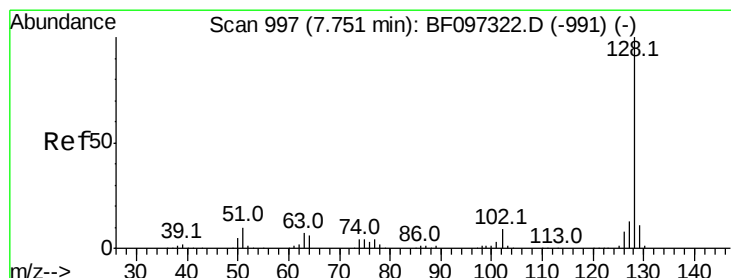
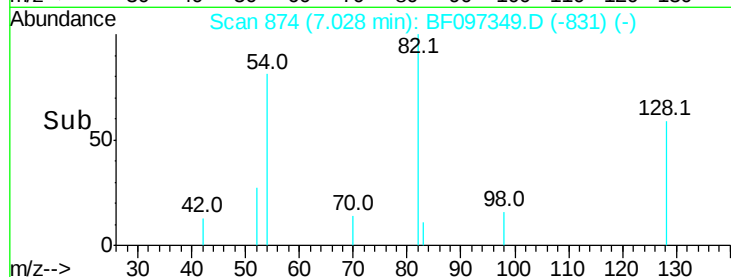
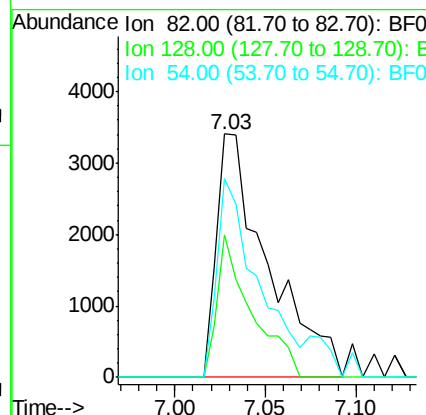
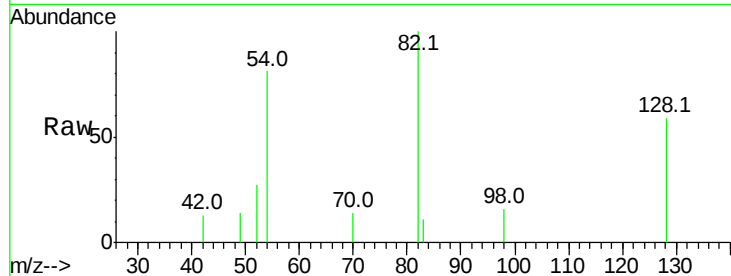
#23
Nitrobenzene-d5
Concen: 1.098 ng
RT: 7.03 min Scan# 874
Delta R.T. -0.05 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	58.7	34.0	51.0#
54	81.4	42.2	63.2#

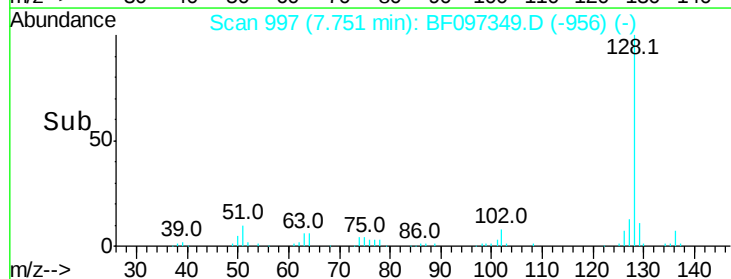
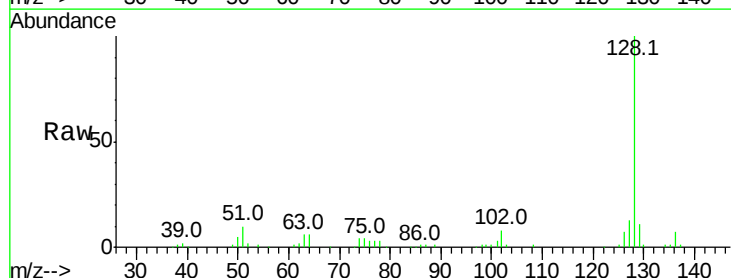
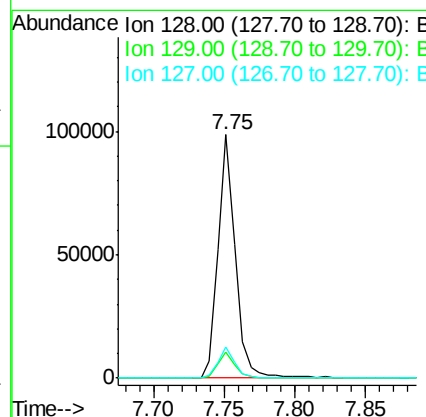
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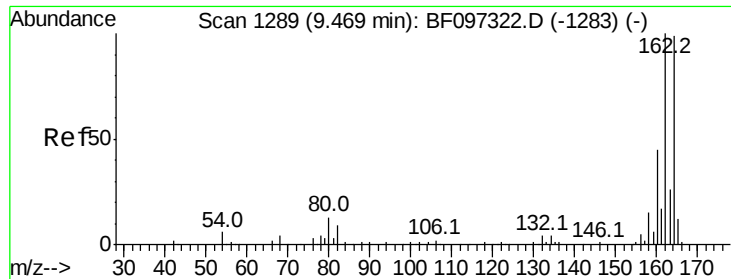
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#31
Naphthalene
Concen: 4.988 ng
RT: 7.75 min Scan# 997
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.6
127	13.0	10.8	16.2





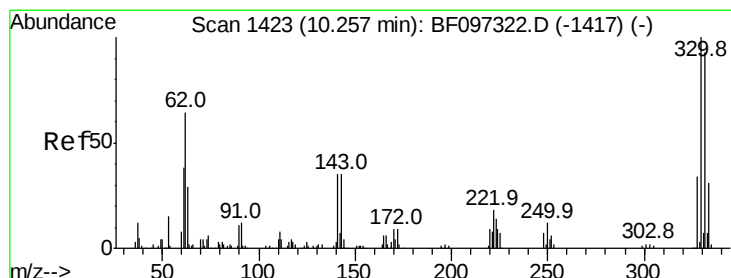
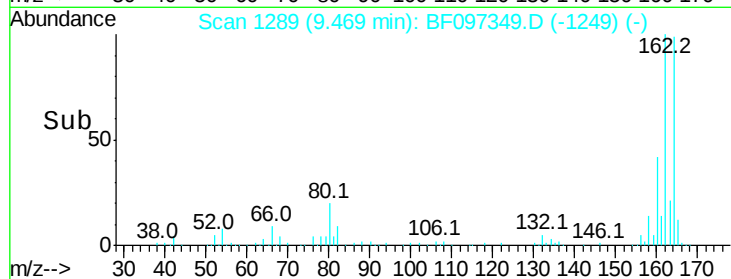
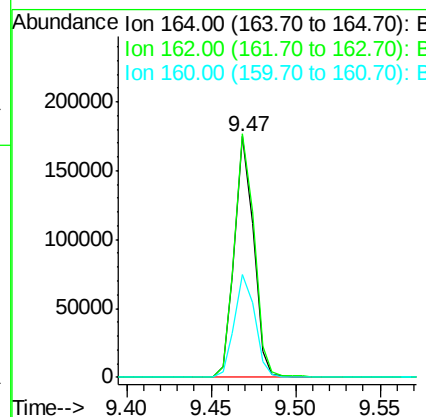
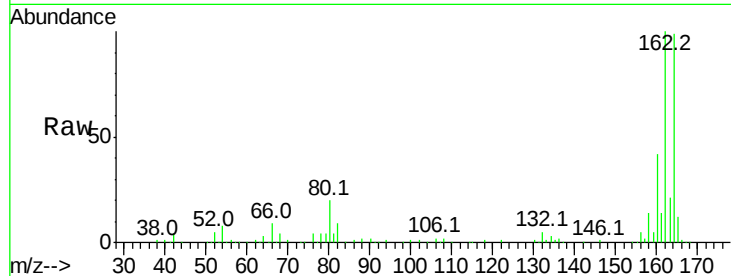
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.47 min Scan# 1289
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100	138152		
162	101.2	82.6	123.8	
160	42.8	36.2	54.2	

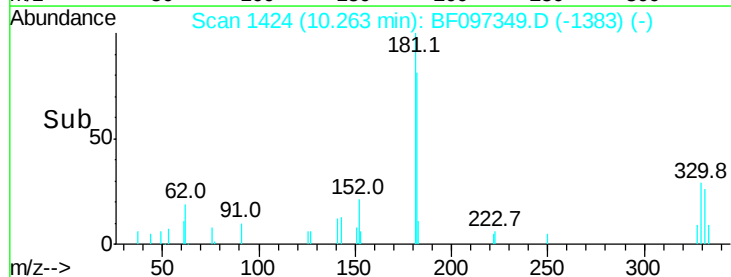
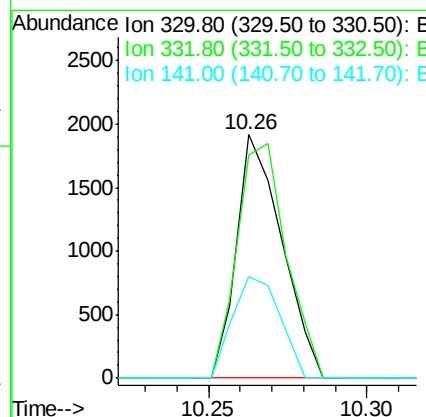
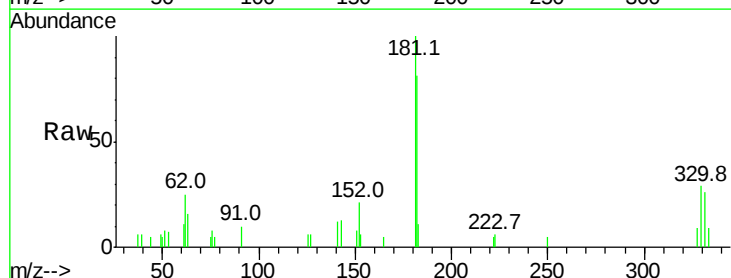
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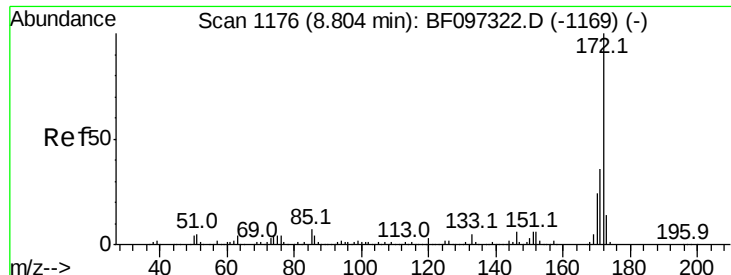
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#41
2,4,6-Tribromophenol
Concen: 1.732 ng
RT: 10.26 min Scan# 1424
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	1891		
332	104.8	76.6	115.0	
141	43.4	31.4	47.2	





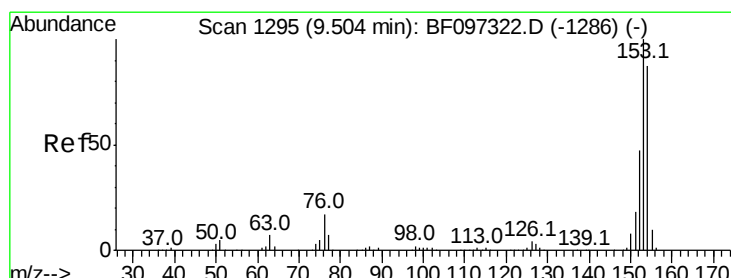
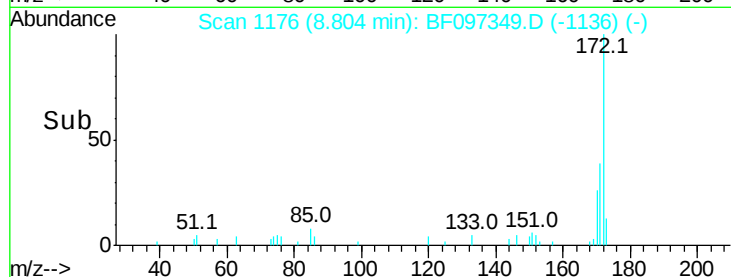
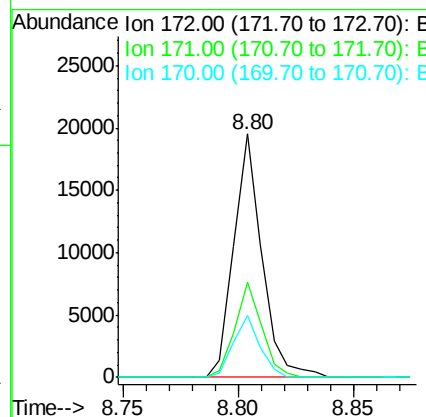
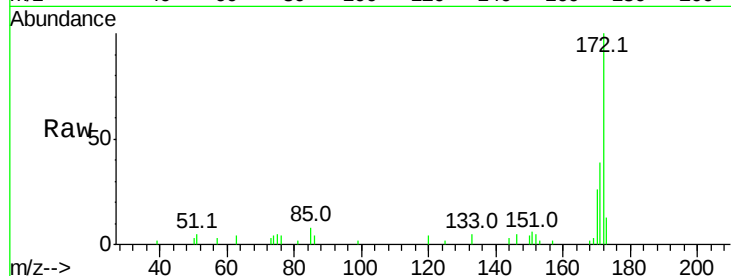
#44
2-Fluorobiphenyl
Concen: 2.034 ng
RT: 8.80 min Scan# 1176
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	16558		
171	38.8		29.6	44.4
170	25.5		19.8	29.8

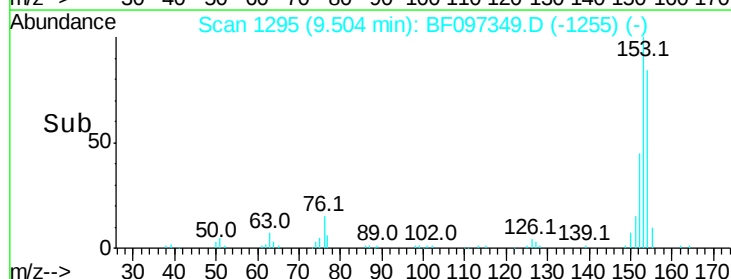
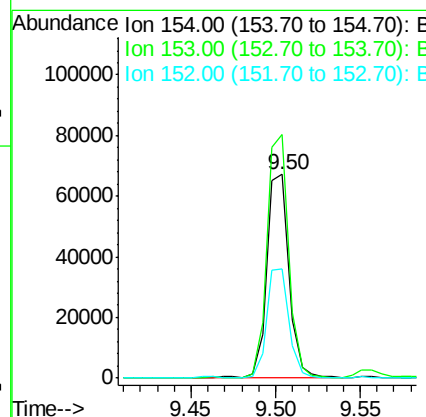
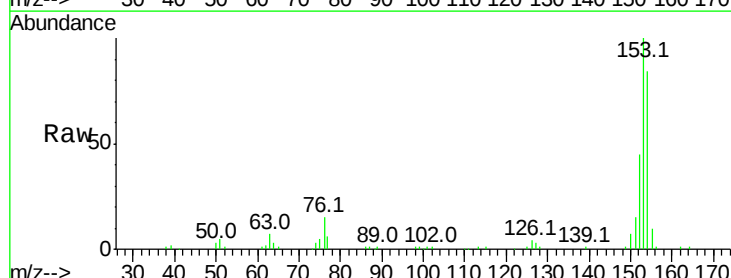
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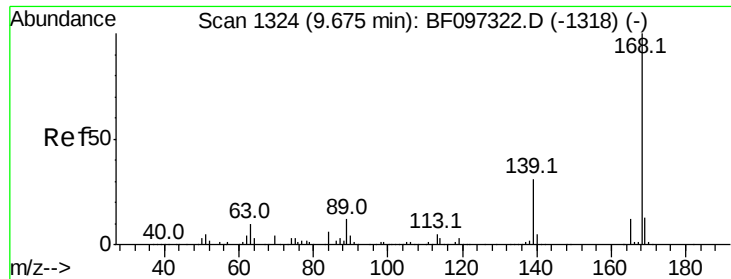
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#51
Acenaphthene
Concen: 7.823 ng
RT: 9.50 min Scan# 1295
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	61419		
153	119.5		90.5	135.7
152	53.5		43.6	65.4





#54

Dibenzenofuran

Concen: 4.239 ng

RT: 9.67 min Scan# 1324

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Instrument :

BNA_F

ClientSampleId :

72-11948DL

Tot Ion:168 Resp: 44329

Ion Ratio Lower Upper

168 100

139 37.2 30.6 45.8

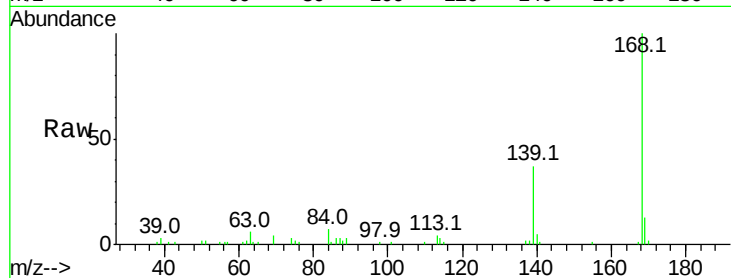
169 13.3 10.8 16.2

Manual Integrations

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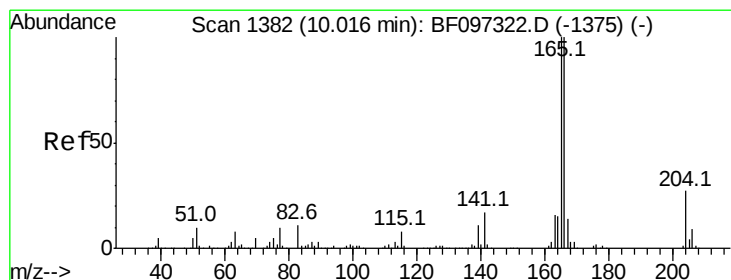
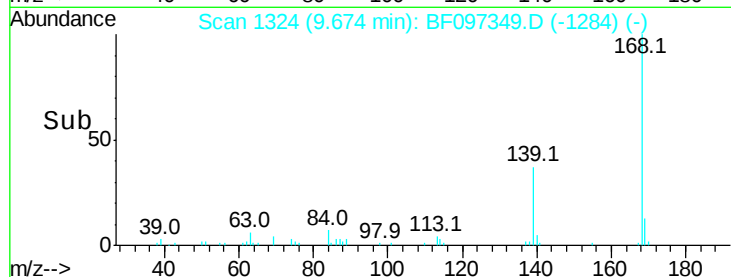
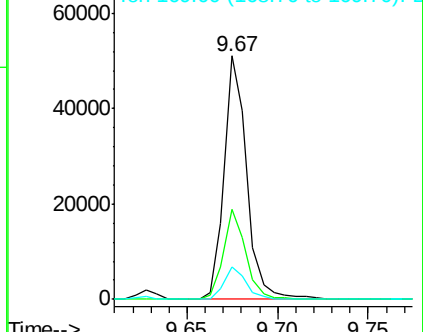
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 6.862 ng

RT: 10.02 min Scan# 1382

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

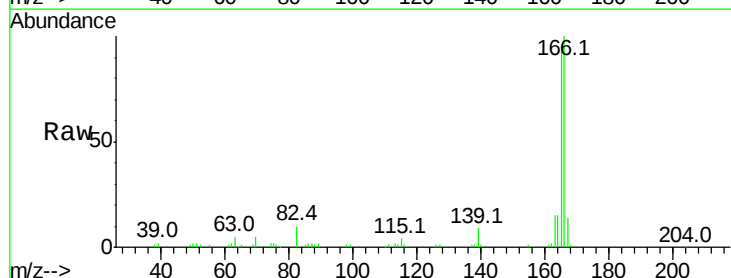
Tgt Ion:166 Resp: 53937

Ion Ratio Lower Upper

166 100

165 96.2 78.8 118.2

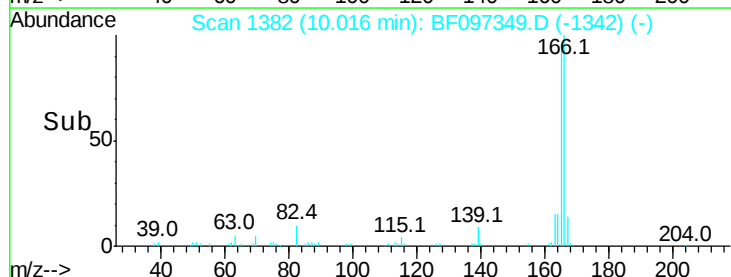
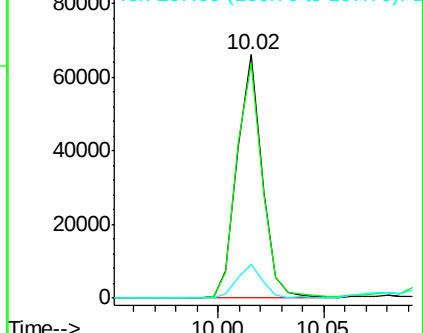
167 13.8 10.6 16.0

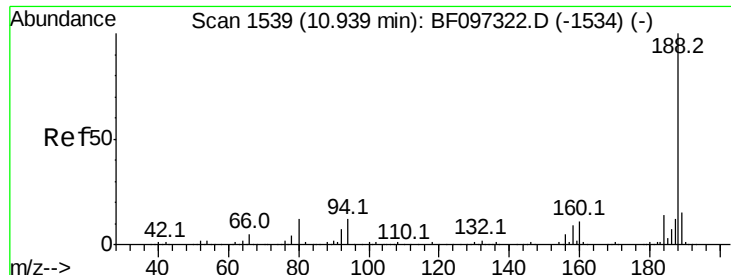


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.94 min Scan# 1540

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Instrument :

BNA_F

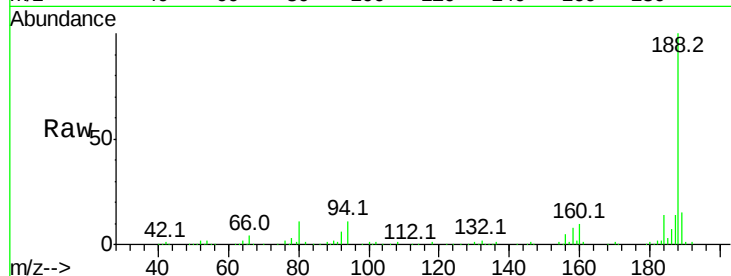
ClientSampleId :

72-11948DL

Tot Ion:	188	Resp:	205410
Ion Ratio	Lower	Upper	
188	100		
94	10.5	9.4	14.2
80	11.2	10.2	15.2

Manual Integrations
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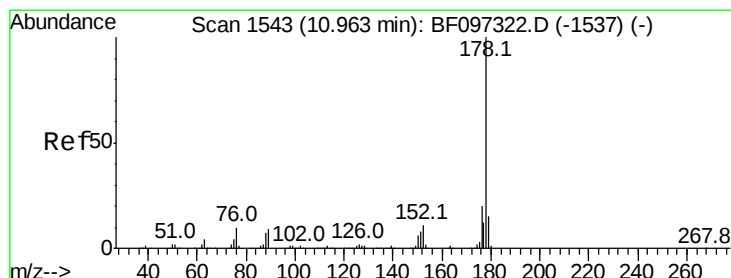
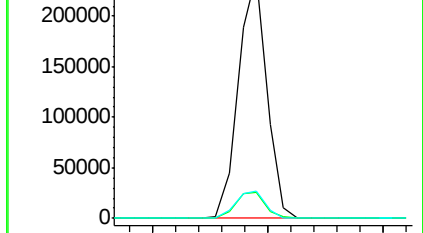
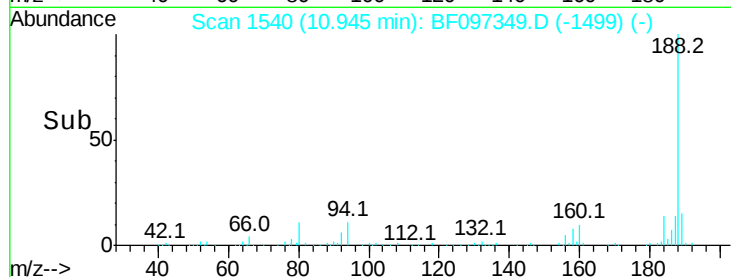


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time-->



#70

Phenanthrene

Concen: 34.605 ng

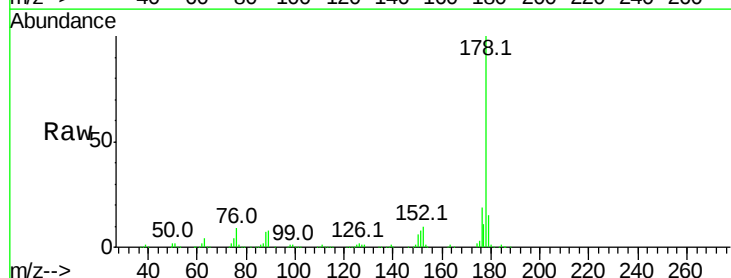
RT: 10.97 min Scan# 1544

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Tgt Ion:	178	Resp:	380865
Ion Ratio	Lower	Upper	
178	100		
176	19.0	16.2	24.4
179	15.0	12.6	19.0

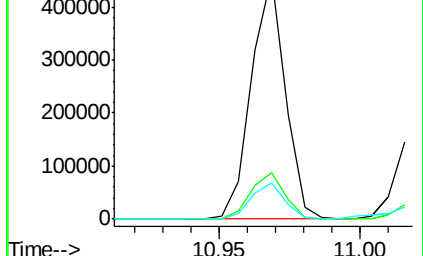
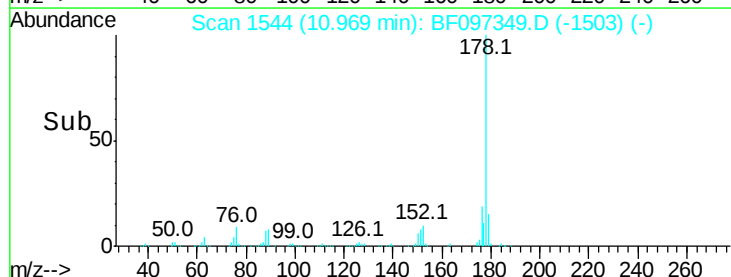


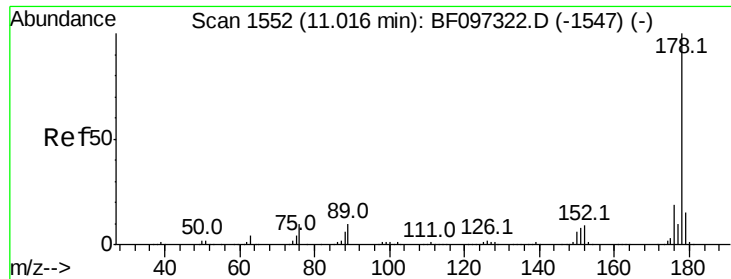
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->





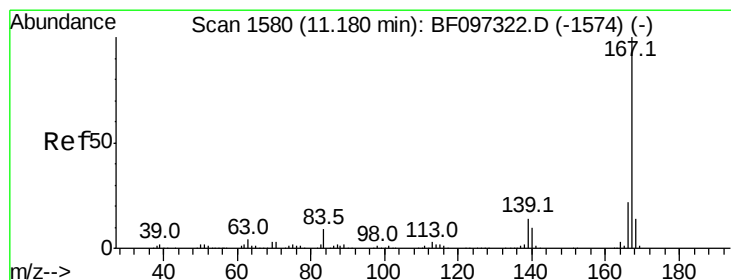
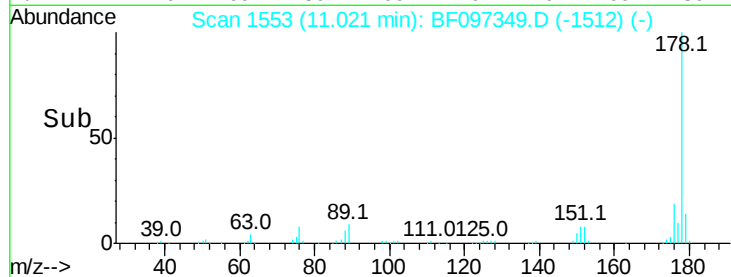
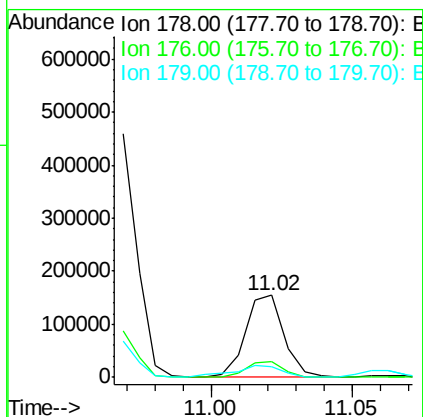
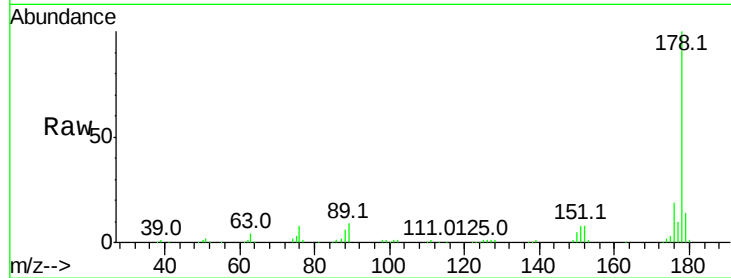
#71
 Anthracene
 Concen: 12.860 ng
 RT: 11.02 min Scan# 1553
 Delta R.T. -0.06 min
 Lab File: BF097349.D
 Acq: 4 Aug 2017 9:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11948DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	13.6	12.7	19.1

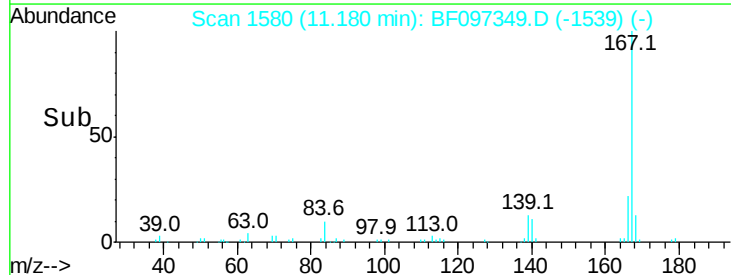
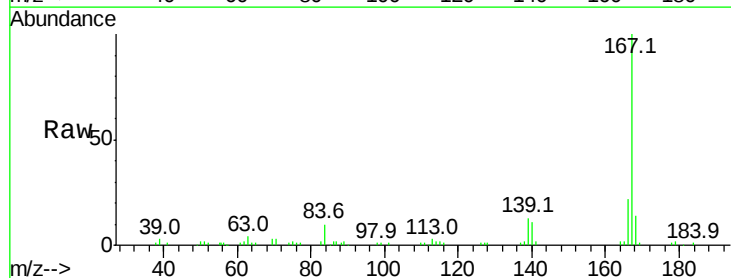
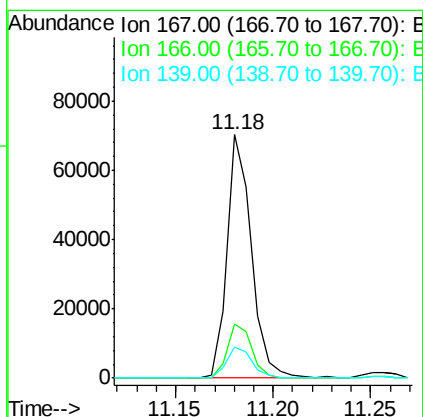
Manual Integrations
 APPROVED

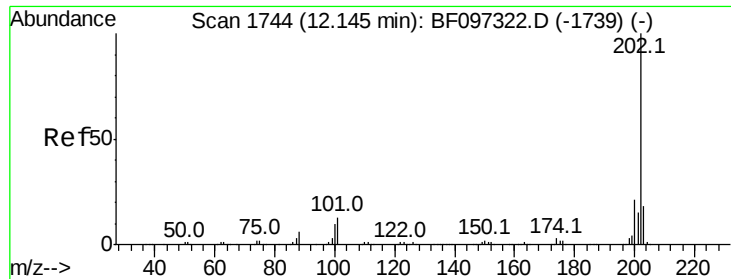
Sohil
 8/4/2017 5:31:14 PM



#72
 Carbazole
 Concen: 5.463 ng
 RT: 11.18 min Scan# 1580
 Delta R.T. -0.06 min
 Lab File: BF097349.D
 Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.1	27.1
139	12.9	11.7	17.5





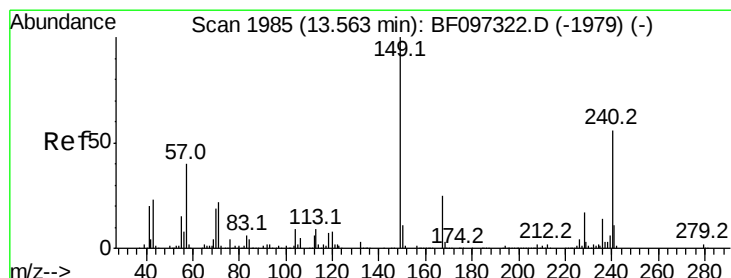
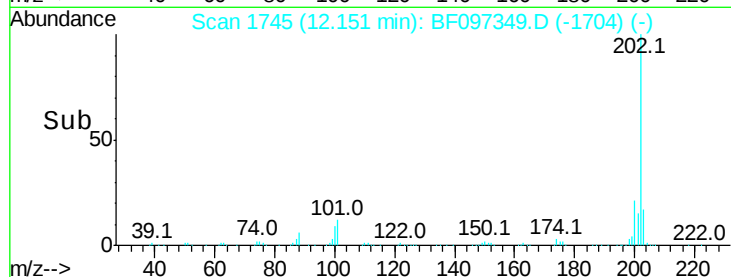
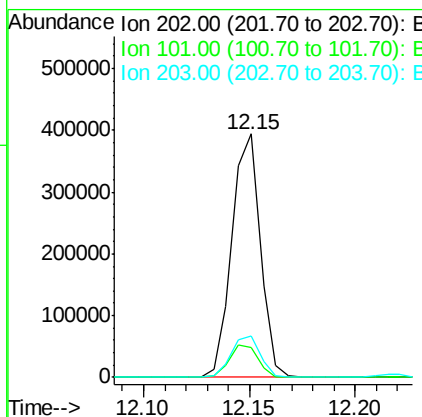
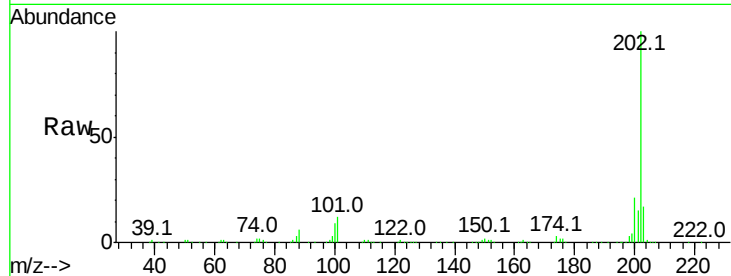
#74
Fluoranthene
Concen: 34.008 ng
RT: 12.15 min Scan# 1745
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampled :
72-11948DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.2	0.0	33.2
203	17.2	0.0	38.1

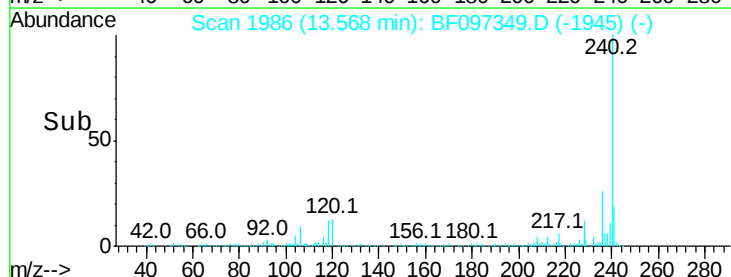
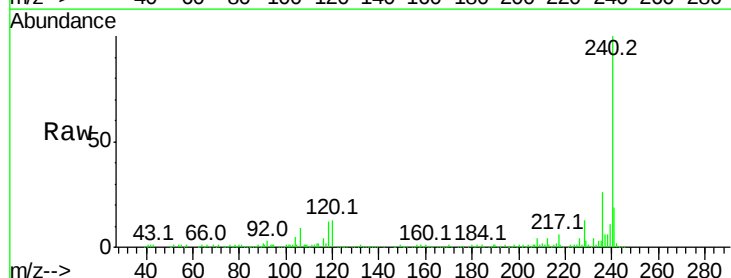
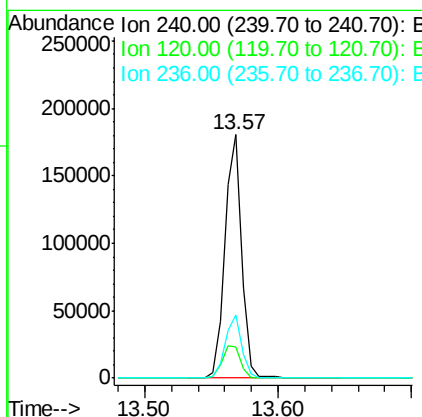
Manual Integrations
APPROVED

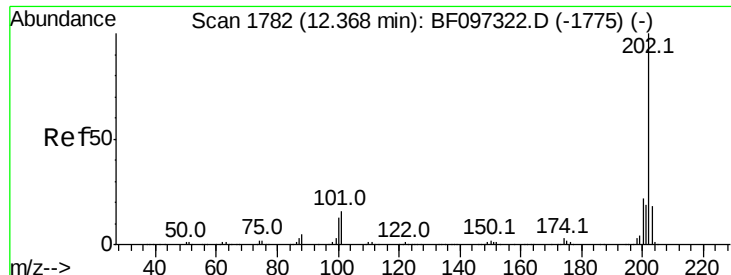
Sohil
8/4/2017 5:31:14 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.57 min Scan# 1986
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.0	5.8	8.8#
236	25.9	20.5	30.7





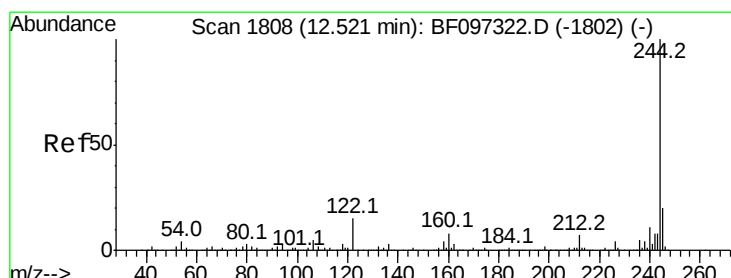
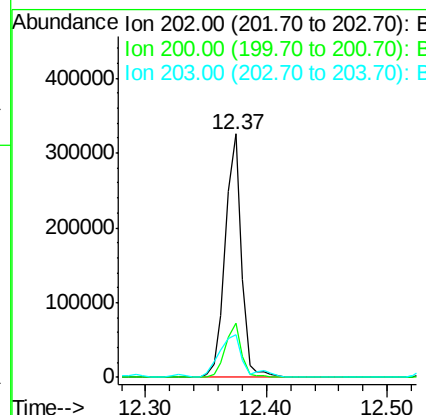
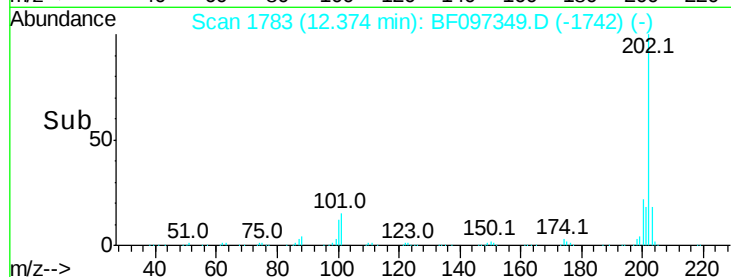
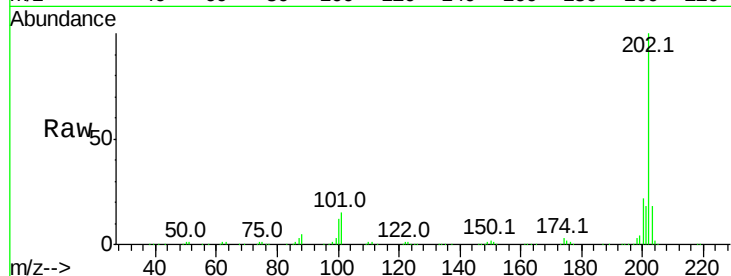
#77
Pvrene
Concen: 22.797 ng
RT: 12.37 min Scan# 1783
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampled :
72-11948DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.2	17.6	26.4
203	17.8	14.4	21.6

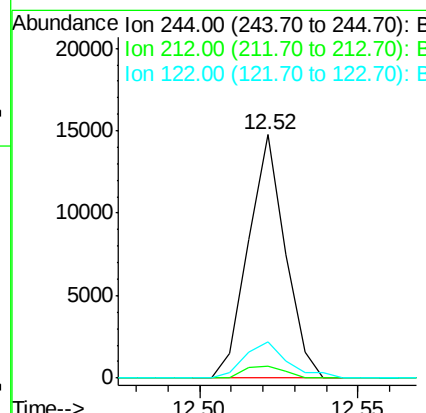
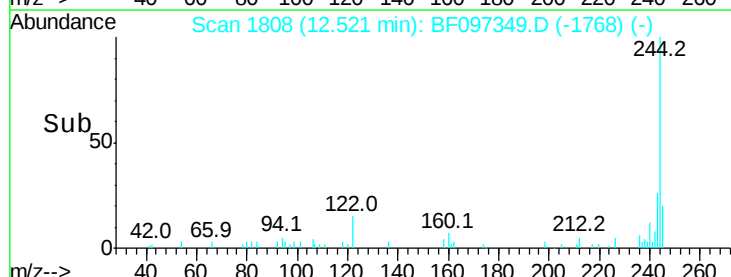
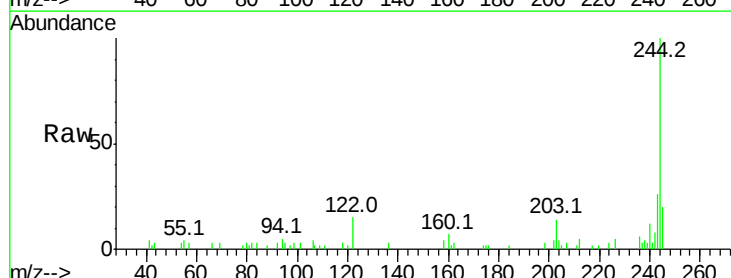
Manual Integrations
APPROVED

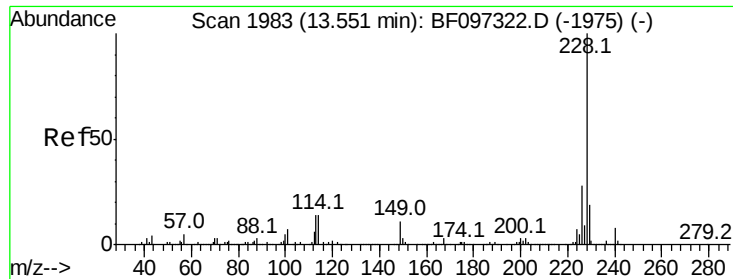
Sohil
8/4/2017 5:31:14 PM



#78
Terphenyl-d14
Concen: 1.520 ng
RT: 12.52 min Scan# 1808
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	5.0	6.0	9.0#
122	15.1	10.3	15.5





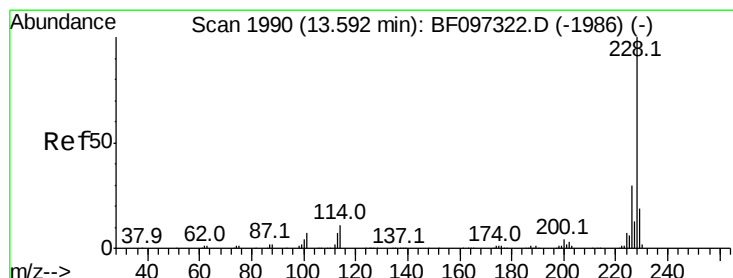
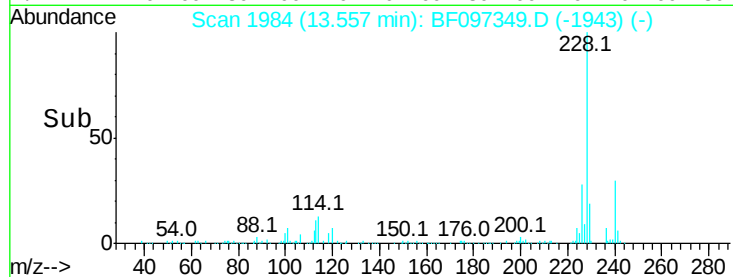
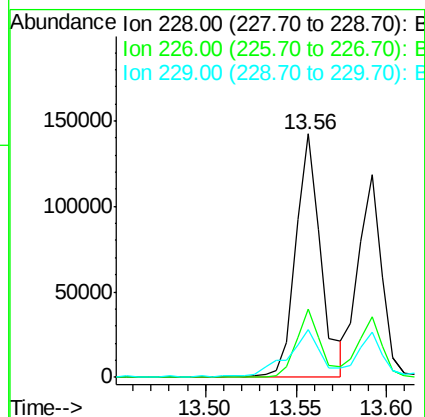
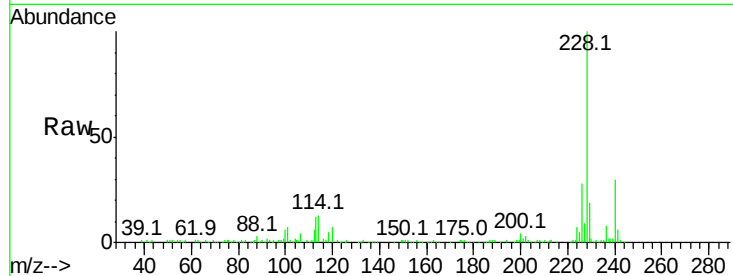
#80
Benzo(a)anthracene
Concen: 13.461 ng
RT: 13.56 min Scan# 1984
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Resp	Lower	Upper
228	100	138937		
226	27.9		22.6	33.8
229	19.4		16.3	24.5

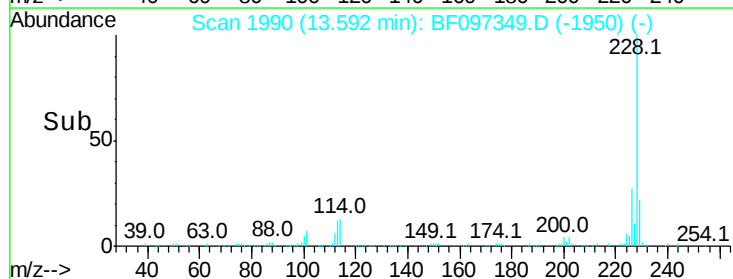
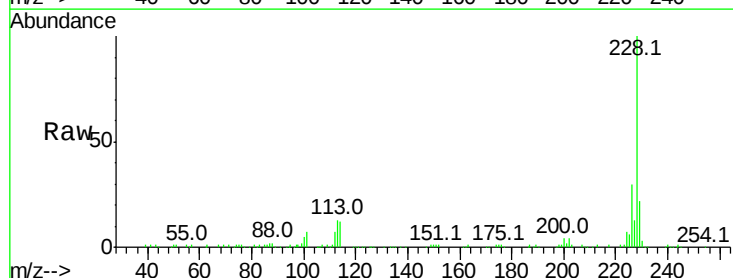
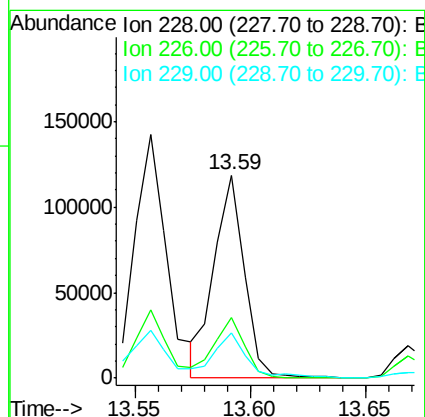
Manual Integrations
APPROVED

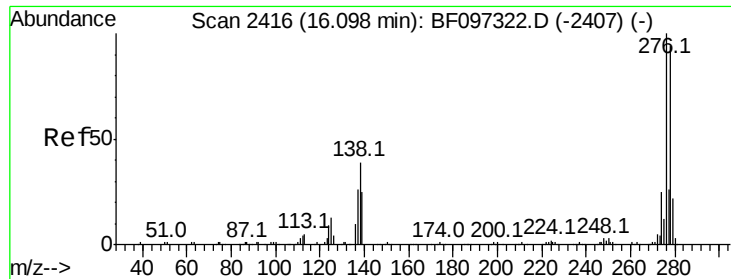
Sohil
8/4/2017 5:31:14 PM



#82
Chrysene
Concen: 10.773 ng
RT: 13.59 min Scan# 1990
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	108581		
226	29.7		24.9	37.3
229	22.2		15.8	23.6





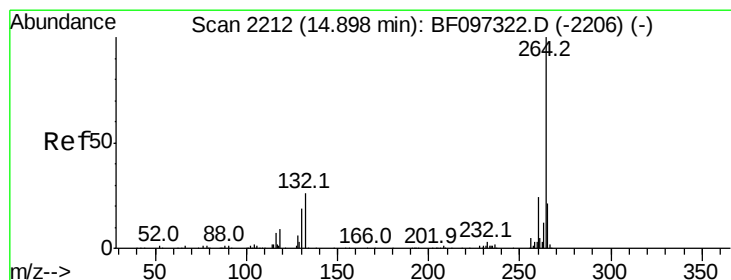
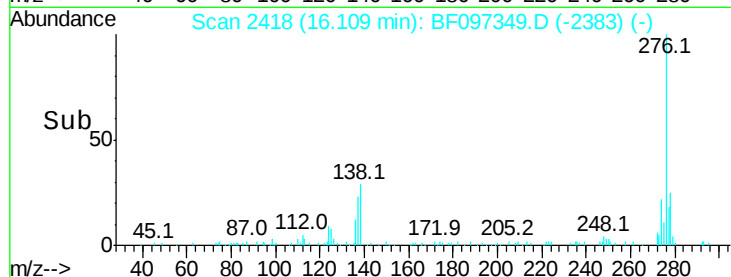
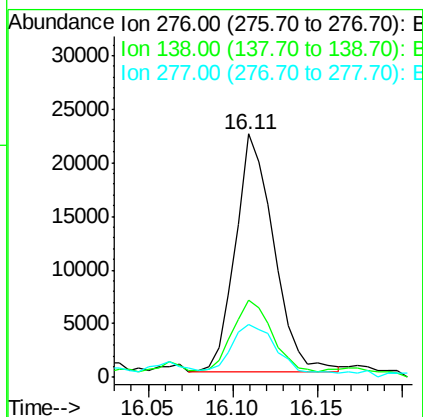
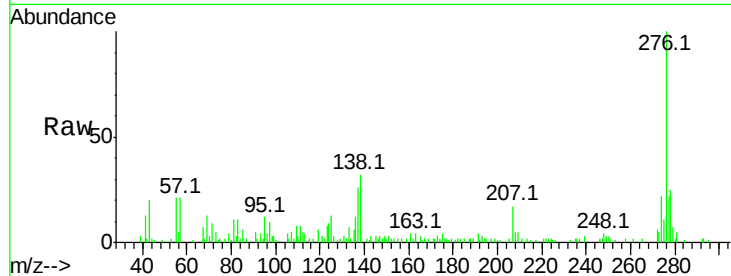
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.091 ng
RT: 16.11 min Scan# 2418
Delta R.T. -0.09 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	33.5	27.8	41.6
277	28.3	20.2	30.4

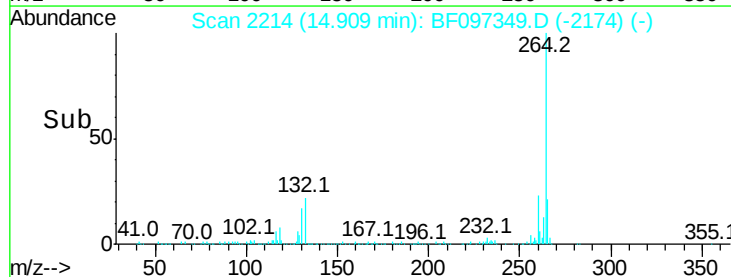
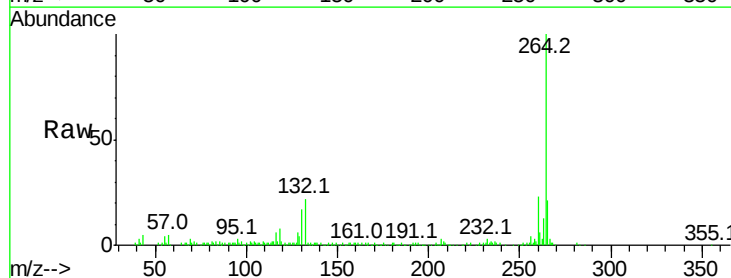
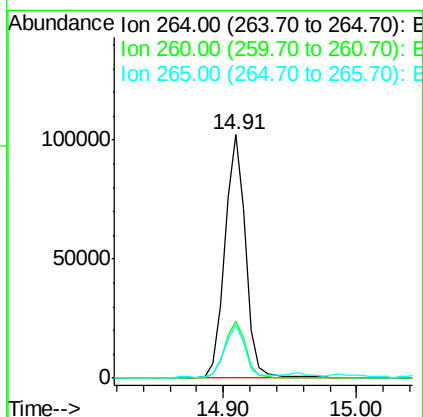
Manual Integrations
APPROVED

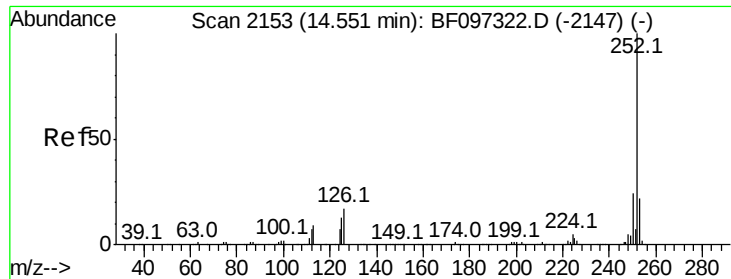
Sohil
8/4/2017 5:31:14 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 14.91 min Scan# 2214
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.5	29.3
265	21.5	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 16.372 ng m

RT: 14.56 min Scan# 2154

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Instrument :

BNA_F

ClientSampleId :

72-11948DL

Tot Ion:252 Resp: 110866

Ion Ratio Lower Upper

252 100

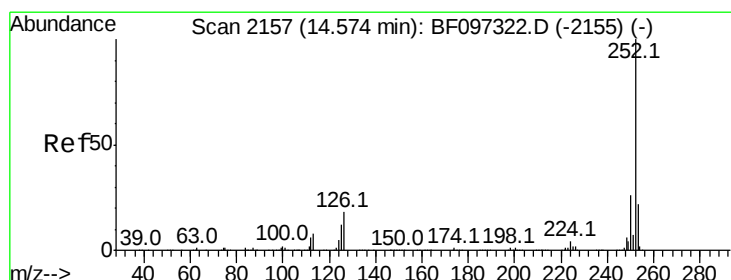
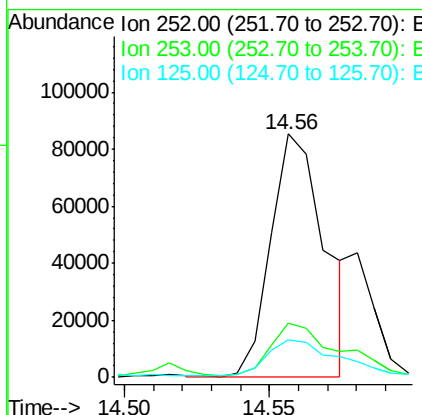
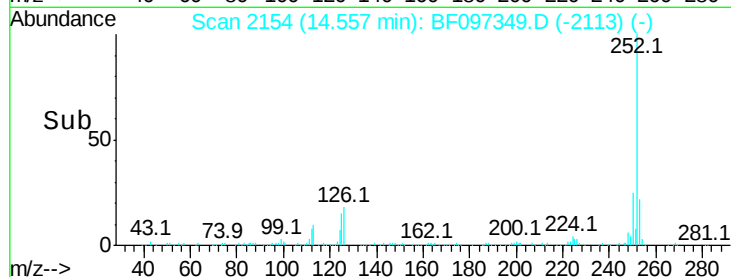
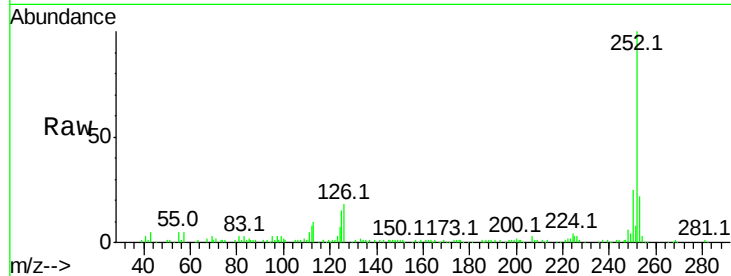
253 22.1 18.1 27.1

125 15.4 9.8 14.8#

Manual Integrations
APPROVED

Sohil

8/4/2017 5:31:14 PM



#88

Benzo(k)fluoranthene

Concen: 4.438 ng m

RT: 14.58 min Scan# 2158

Delta R.T. -0.06 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

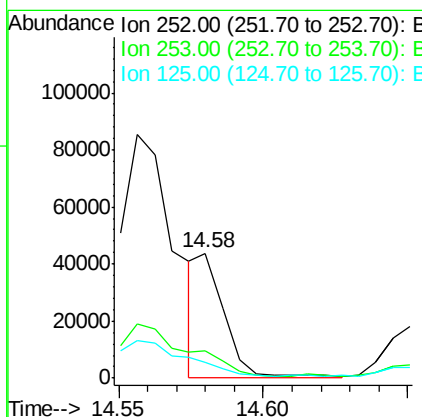
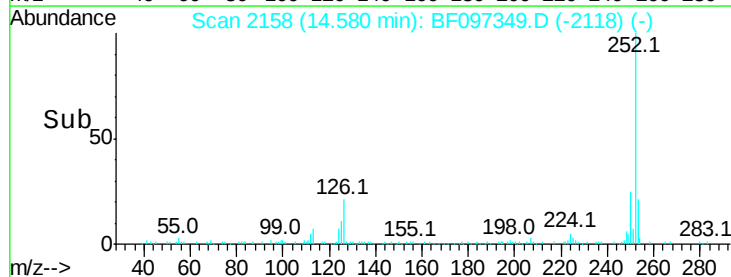
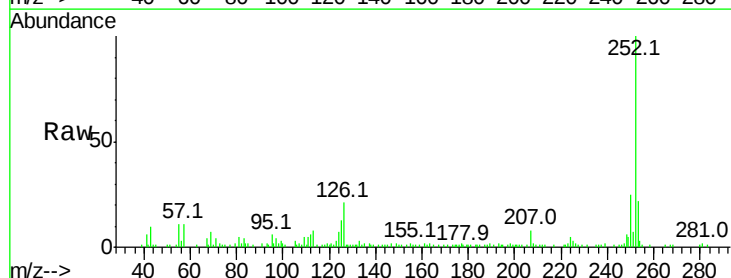
Tgt Ion:252 Resp: 28637

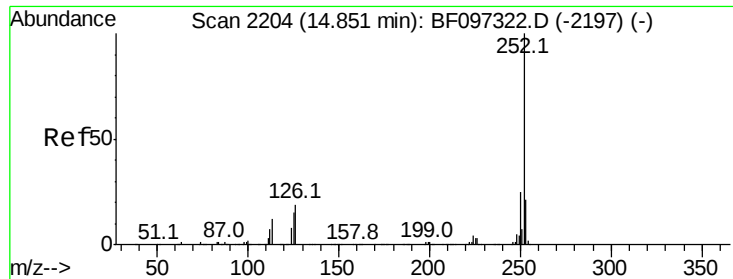
Ion Ratio Lower Upper

252 100

253 22.3 18.4 27.6

125 13.1 13.1 19.7#





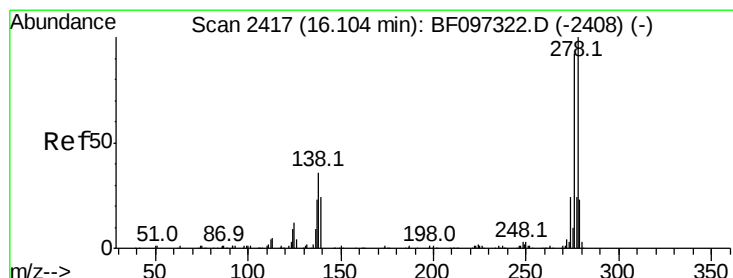
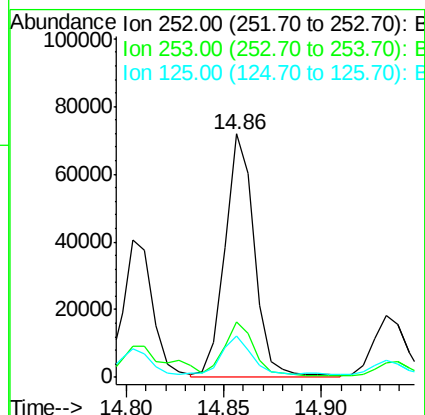
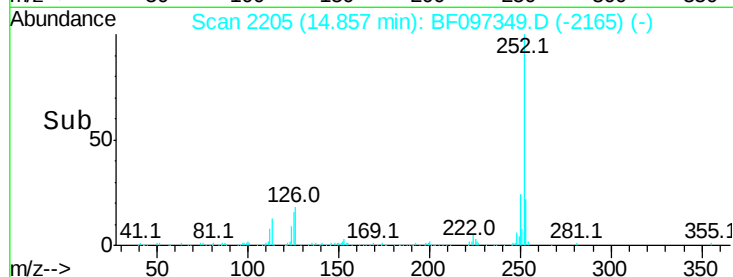
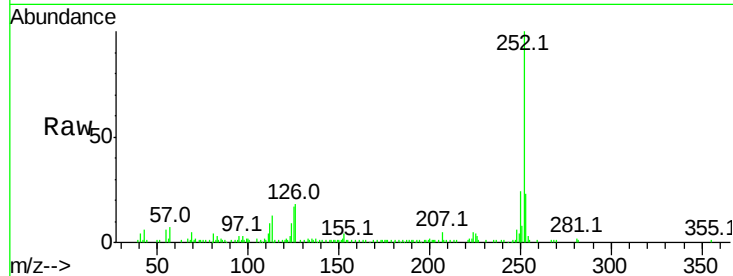
#89
Benzo(a)pyrene
Concen: 12.089 ng
RT: 14.86 min Scan# 2205
Delta R.T. -0.06 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Instrument :
BNA_F
ClientSampleId :
72-11948DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	16.9	11.0	16.4

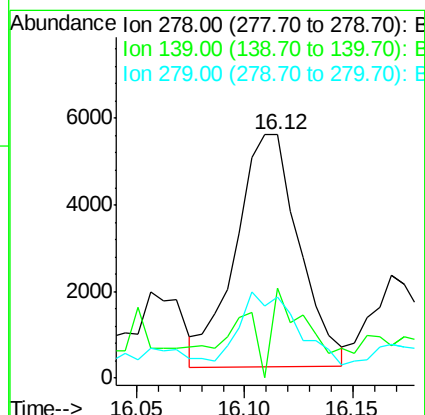
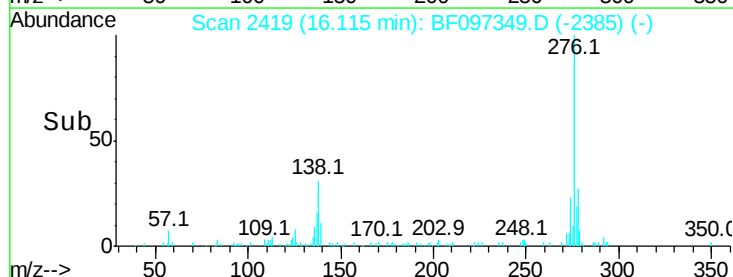
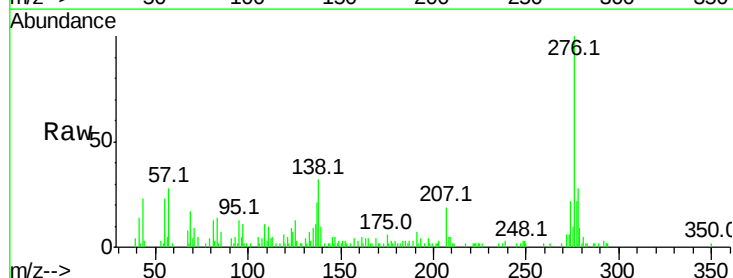
Manual Integrations
APPROVED

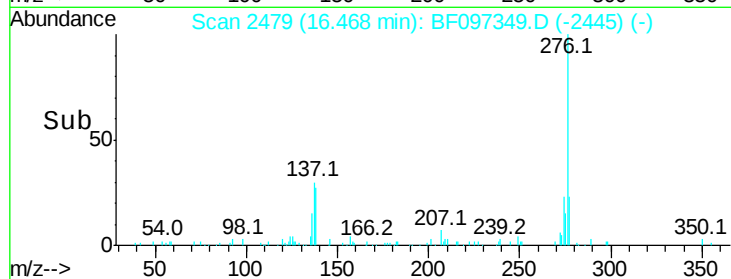
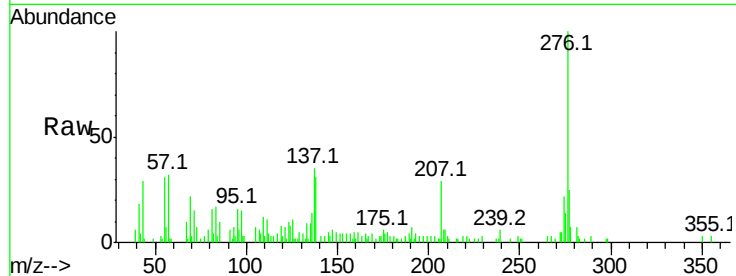
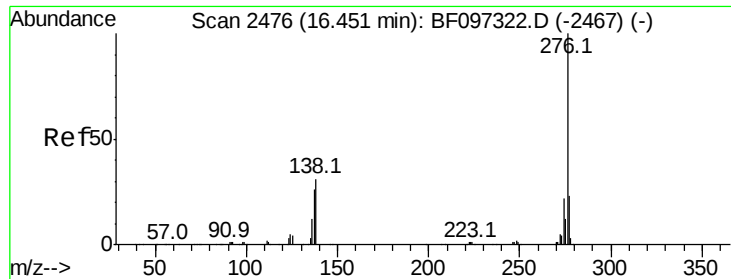
Sohil
8/4/2017 5:31:14 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.165 ng m
RT: 16.12 min Scan# 2419
Delta R.T. -0.10 min
Lab File: BF097349.D
Acq: 4 Aug 2017 9:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	36.8	16.6	24.8
279	33.4	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 5.885 ng

RT: 16.47 min Scan# 2479

Delta R.T. -0.10 min

Lab File: BF097349.D

Acq: 4 Aug 2017 9:03

Instrument :

BNA_F

ClientSampleId :

72-11948DL

Tot Ion:	276	Resp:	31365
Ion Ratio	Lower	Upper	
276	100		
277	24.8	18.6	28.0
138	30.6	25.4	38.0

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:14 PM

