

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
 Data File : BF107509.D
 Acq On : 19 Jul 2018 11:34
 Operator : JU/SJ
 Sample : J4016-17DL 10X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB4-L-12-7DL

Manual Integrations
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Quant Time: Jul 19 13:46:58 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 18 11:55:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	122326	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	467830	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	252153	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	470621	20.00	ng	0.00
75) Chrysene-d12	14.17	240	311909	20.00	ng	-0.01
86) Perylene-d12	15.71	264	322284	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	61915	7.69	ng	-0.02
7) Phenol-d6	6.60	99	83713	8.04	ng	-0.02
23) Nitrobenzene-d5	7.54	82	52734	6.01	ng	-0.02
41) 2,4,6-Tribromophenol	10.81	330	19018	8.58	ng	-0.02
44) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
78) Terphenyl-d14	13.10	244	105264	8.39	ng	-0.01
Target Compounds						
31) Naphthalene	8.28	128	126081	5.548	ng	Qvalue 100
37) 2-Methylnaphthalene	8.98	142	48620	3.246	ng	# 83
51) Acenaphthene	10.06	154	87964	5.522	ng	96
54) Dibenzofuran	10.23	168	86478	3.513	ng	94
57) Fluorene	10.57	166	121219	7.435	ng	93
70) Phenanthrene	11.55	178	1284997	54.789	ng	97
71) Anthracene	11.60	178	205810	8.810	ng	99
72) Carbazole	11.75	167	50048	2.263	ng	# 90
74) Fluoranthene	12.74	202	908509	34.081	ng	91
77) Pyrene	12.97	202	956781	45.109	ng	99
80) Benzo(a)anthracene	14.15	228	370969	19.438	ng	97
82) Chrysene	14.19	228	368209	20.198	ng	99
85) Indeno(1,2,3-cd)pyrene	17.27	276	117366	9.044	ng	# 87
87) Benzo(b)fluoranthene	15.25	252	318241m	16.870	ng	
88) Benzo(k)fluoranthene	15.27	252	80489m	4.372	ng	
89) Benzo(a)pyrene	15.64	252	216819m	12.523	ng	
91) Benzo(a,h,i)perylene	17.75	276	114014	8.587	ng	# 91

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

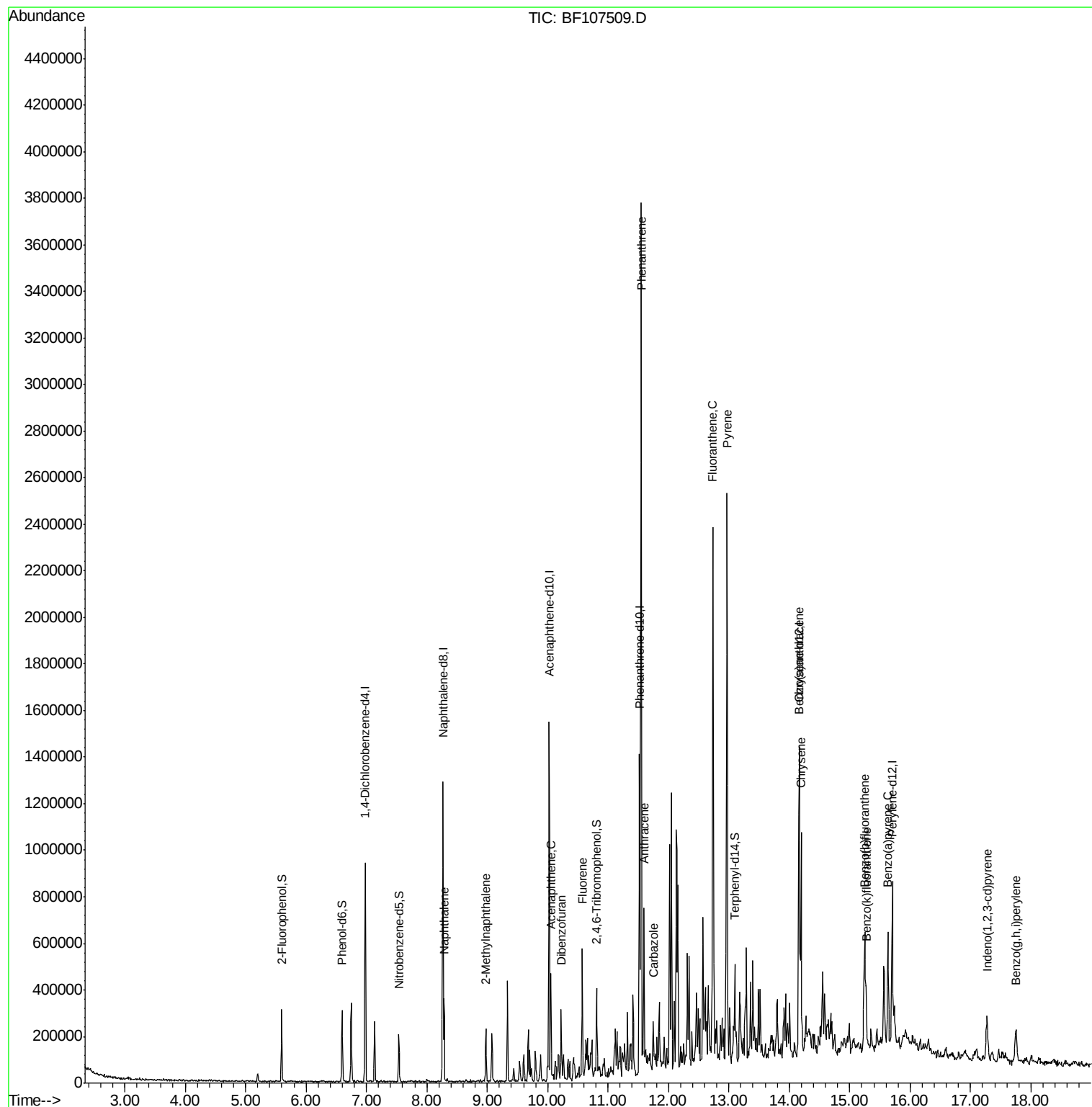
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
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ALS Vial : 45 Sample Multiplier: 1

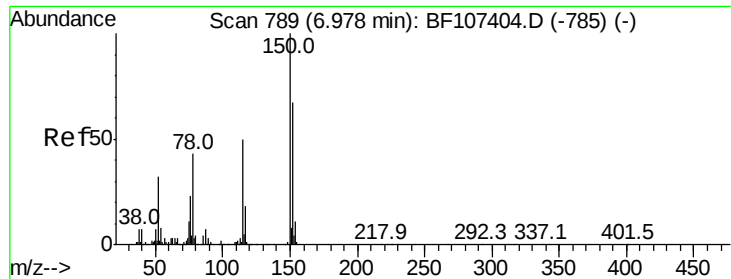
Instrument :
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SB4-L-12-7DL

Quant Time: Jul 19 13:46:58 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M
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#1

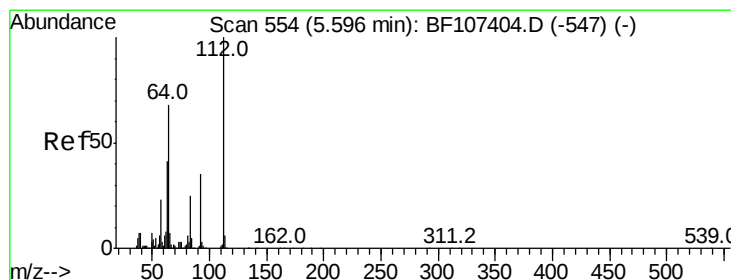
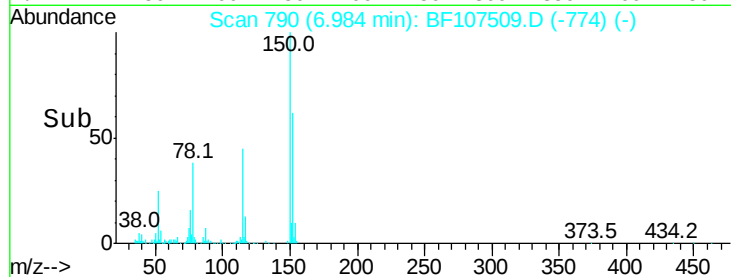
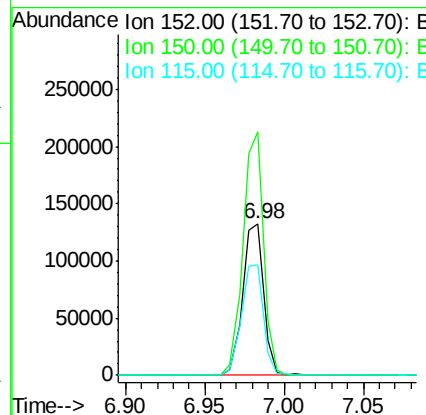
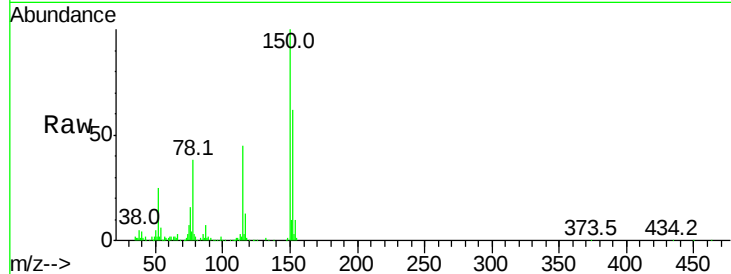
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.98 min Scan# 790
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Instrument :
BNA_F
ClientSampleId :
SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.3	124.6	186.8
115	72.8	50.1	75.1

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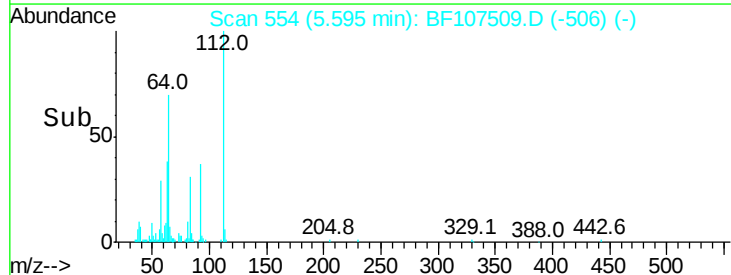
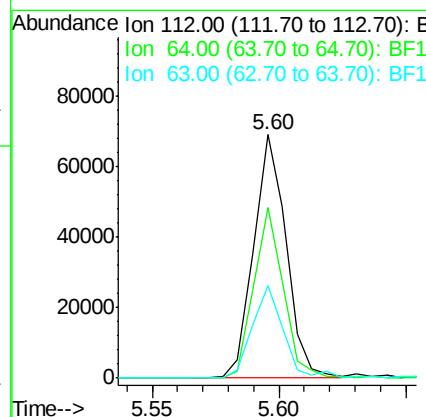
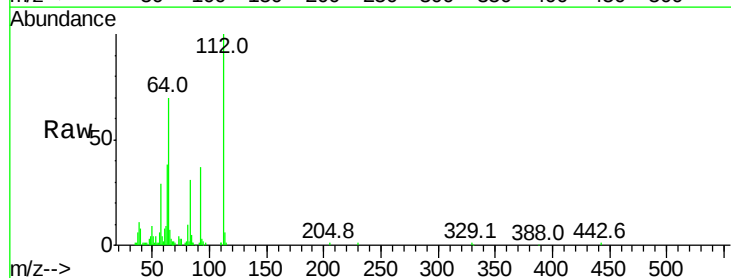
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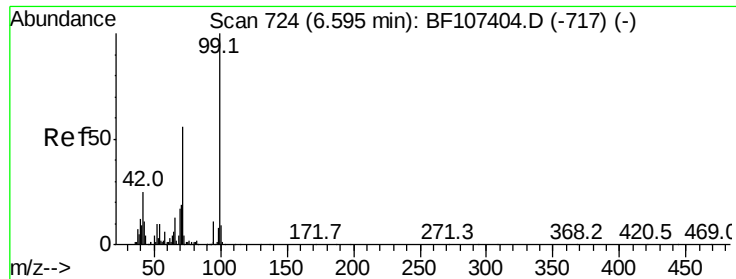


#5

2-Fluorophenol
Concen: 7.687 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.02 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.9	47.9	71.9
63	37.8	23.7	35.5





#7

Phenol-d6

Concen: 8.039 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

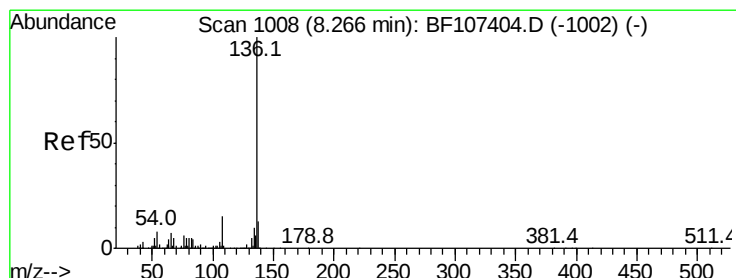
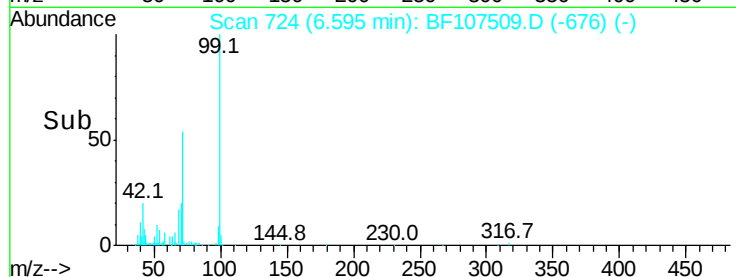
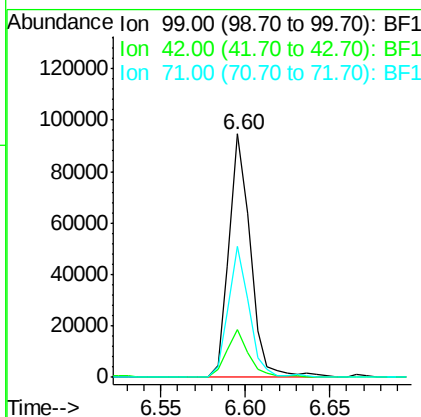
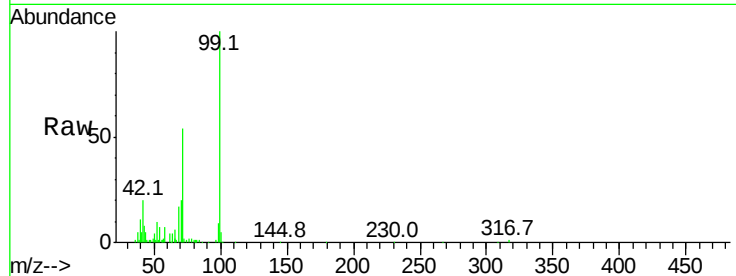
ClientSampleId :

SB4-L-12-7DL

Tot Ion:	99	Resp:	83713
Ion Ratio	Lower	Upper	
99	100		
42	19.6	14.5	21.7
71	53.8	25.4	38.0#

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#21

Naphthalene-d8

Concen: 20.000 ng

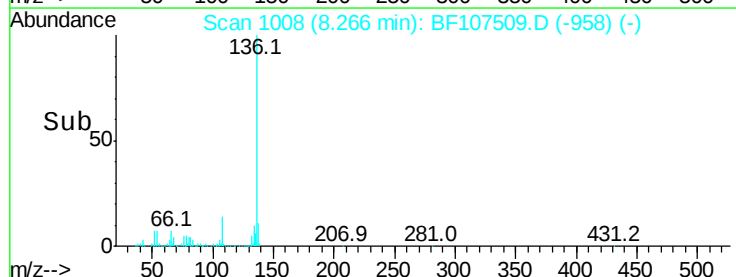
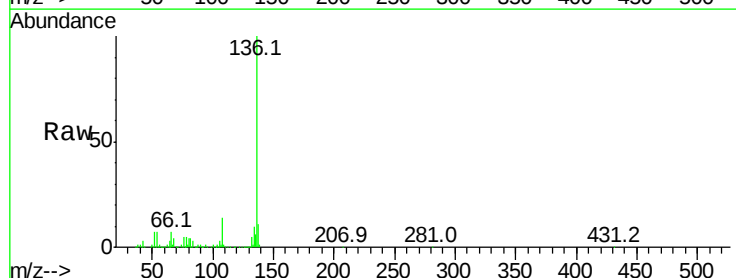
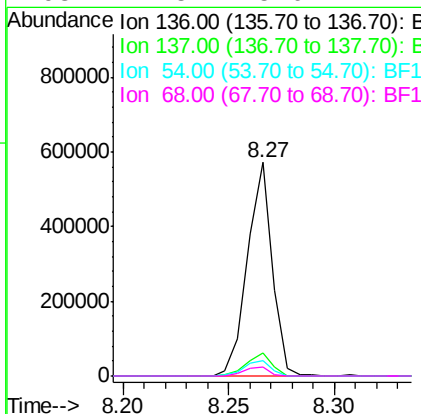
RT: 8.27 min Scan# 1008

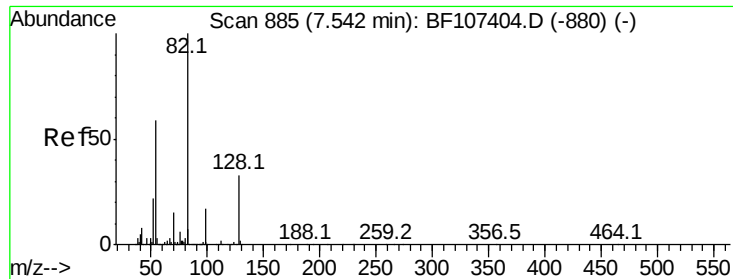
Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion:	136	Resp:	467830
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	7.4	6.6	9.8
68	4.5	5.0	7.4#





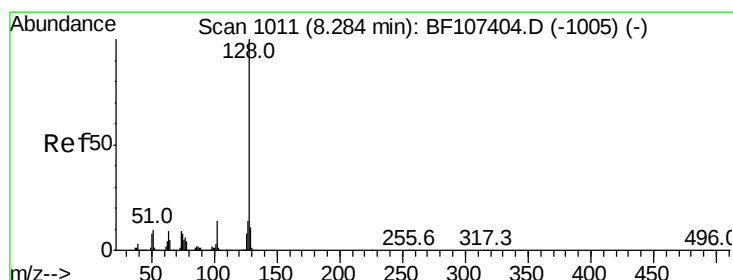
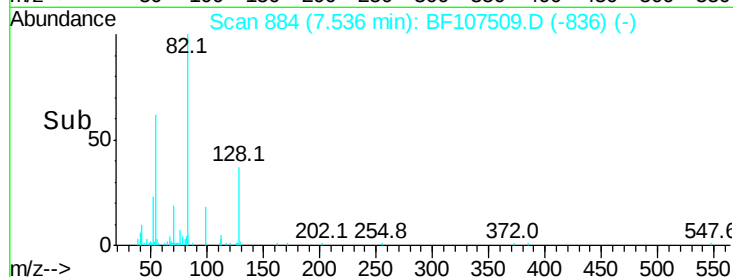
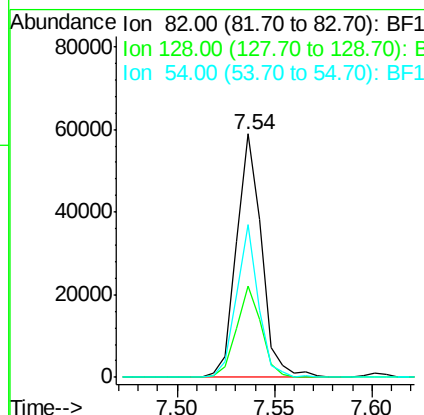
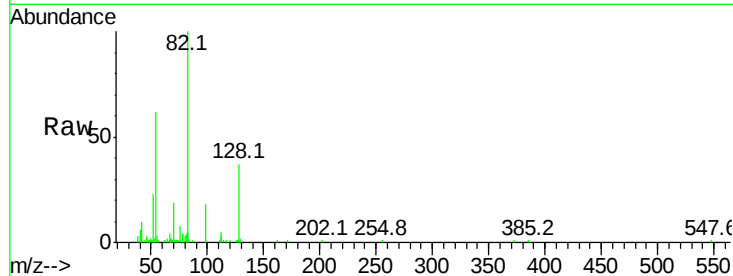
#23
 Nitrobenzene-d5
 Concen: 6.011 ng
 RT: 7.54 min Scan# 884
 Delta R.T. -0.02 min
 Lab File: BF107509.D
 Acq: 19 Jul 2018 11:34

Instrument :
 BNA_F
 ClientSampleId :
 SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.4	36.1	54.1
54	62.5	41.4	62.2#

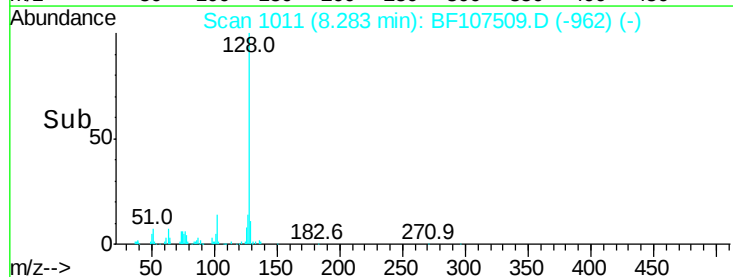
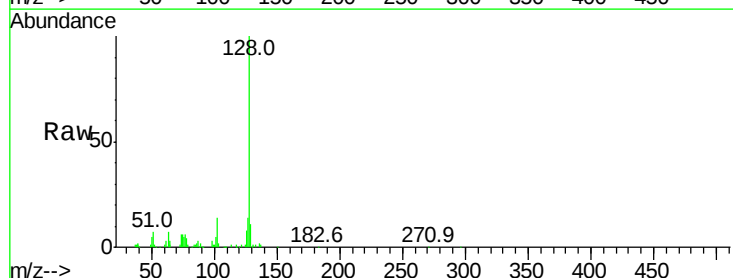
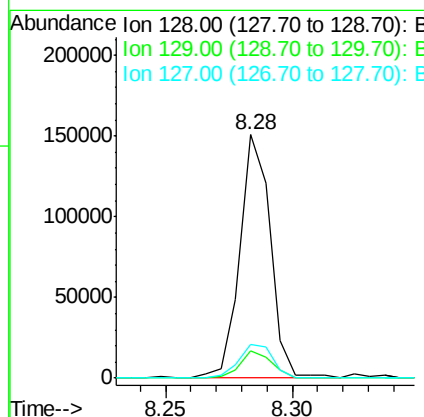
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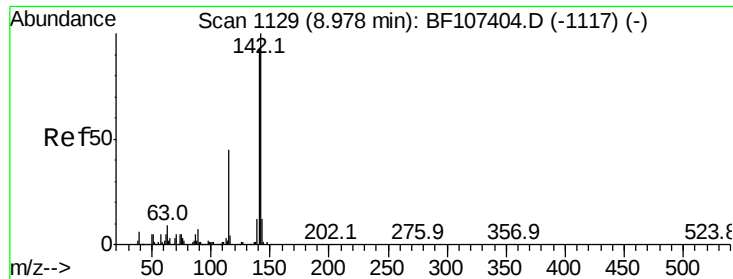
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#31
 Naphthalene
 Concen: 5.548 ng
 RT: 8.28 min Scan# 1011
 Delta R.T. -0.01 min
 Lab File: BF107509.D
 Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.7	10.9	16.3





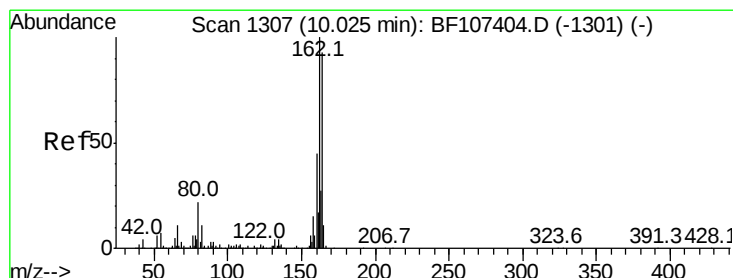
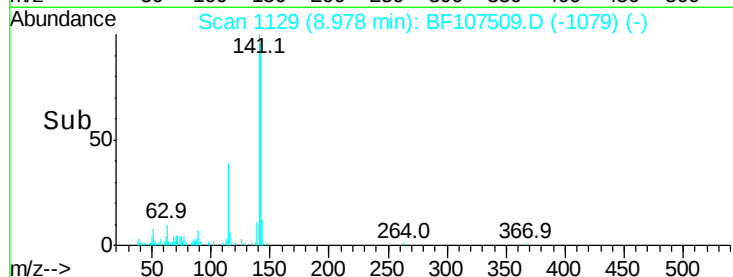
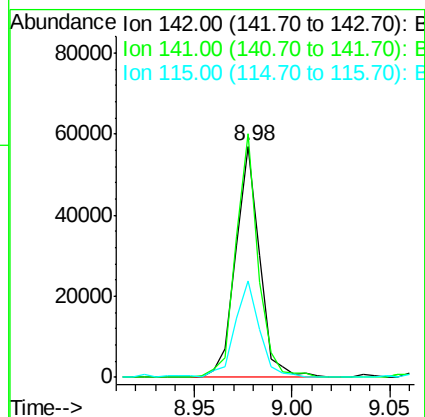
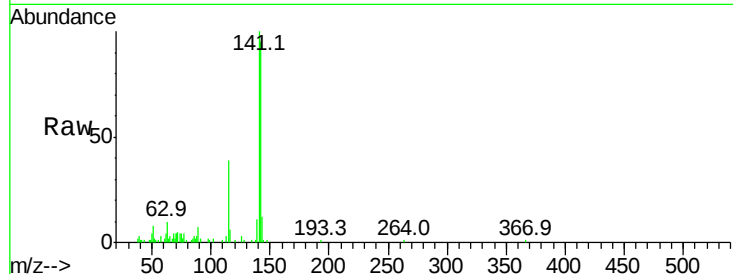
#37
 2-Methylnaphthalene
 Concen: 3.246 ng
 RT: 8.98 min Scan# 1129
 Delta R.T. -0.01 min
 Lab File: BF107509.D
 Acq: 19 Jul 2018 11:34

Instrument :
 BNA_F
 ClientSampleId :
 SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	105.3	70.8	106.2
115	41.5	26.1	39.1

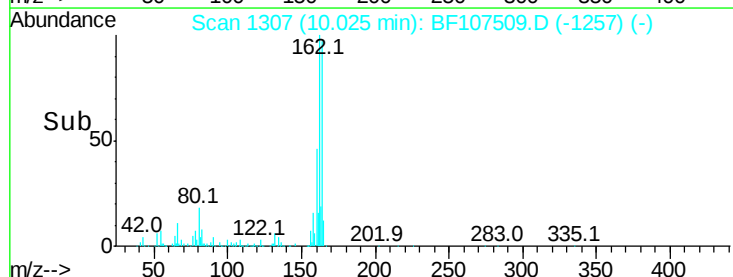
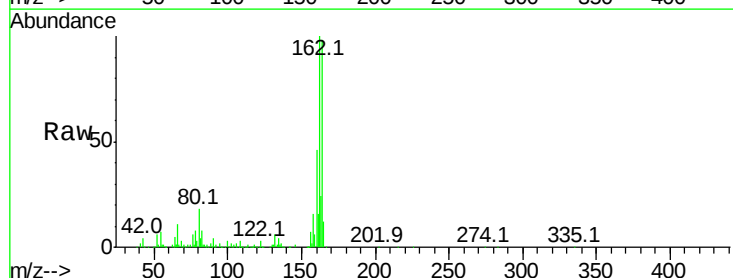
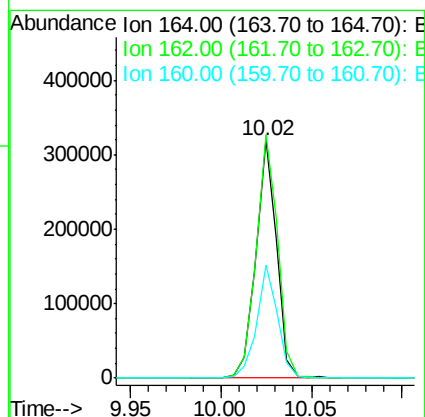
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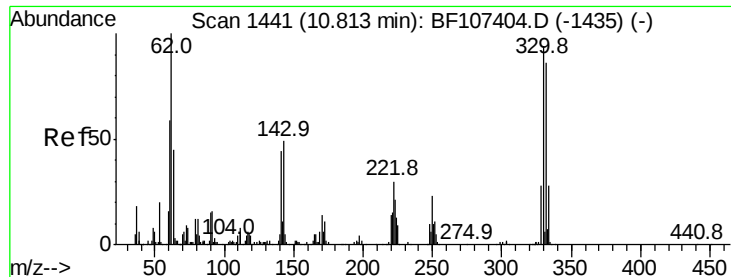
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF107509.D
 Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	86.1	129.1
160	47.4	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 8.584 ng

RT: 10.81 min Scan# 1441

Delta R.T. -0.02 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

ClientSampleId :

SB4-L-12-7DL

Tot Ion:330 Resp: 19018

Ion Ratio Lower Upper

330 100

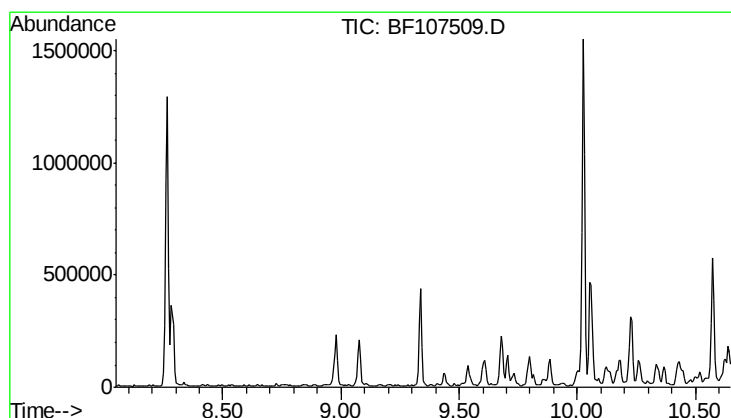
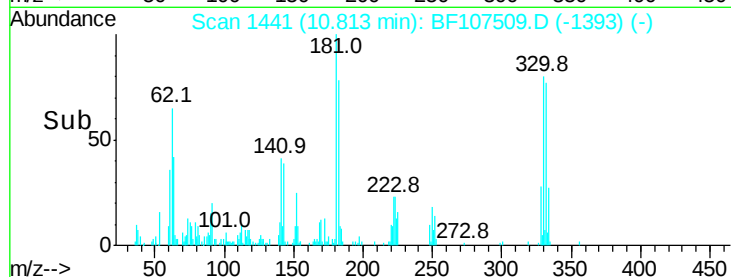
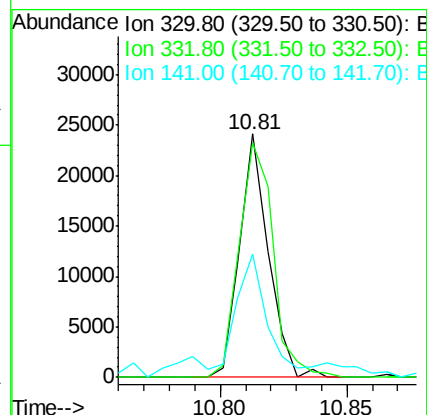
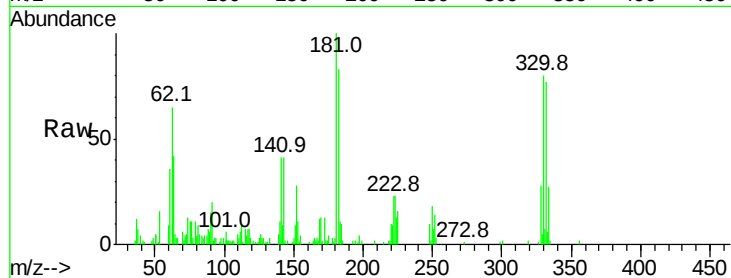
332 113.3 77.0 115.6

141 66.5 29.9 44.9#

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#44

2-Fluorobiphenyl

Concen: 0.000 ng

Expected RT: 9.35 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

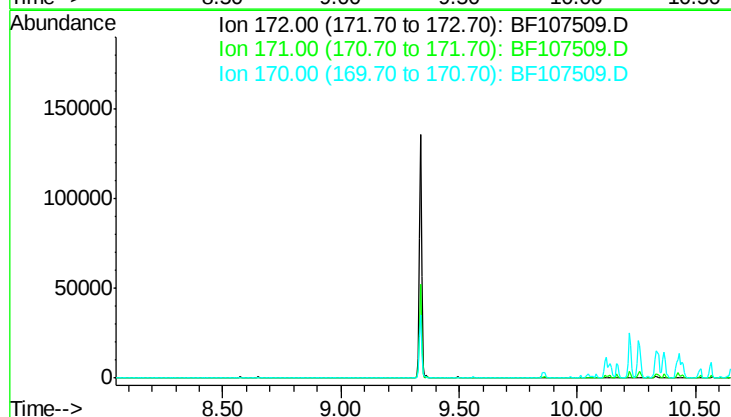
Tgt Ion: 172

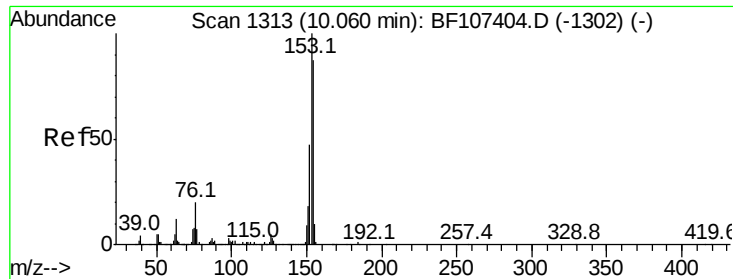
Sig Exp Ratio

172 100

171 37.1

170 24.5





#51

Acenaphthene

Concen: 5.522 ng

RT: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

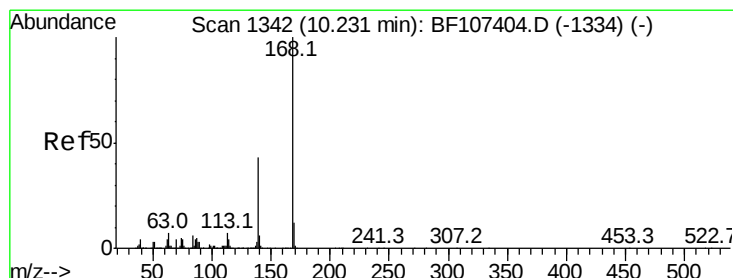
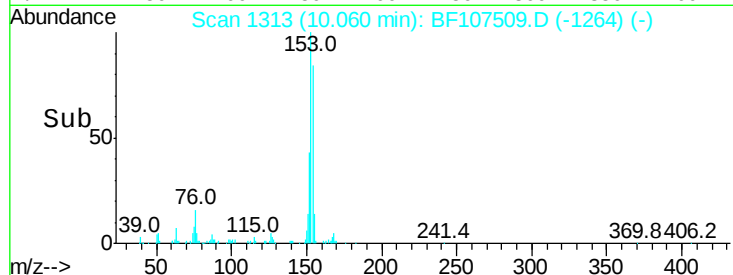
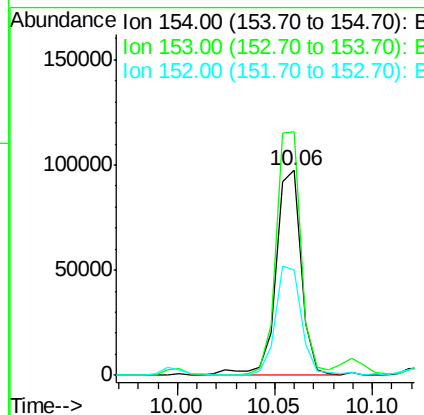
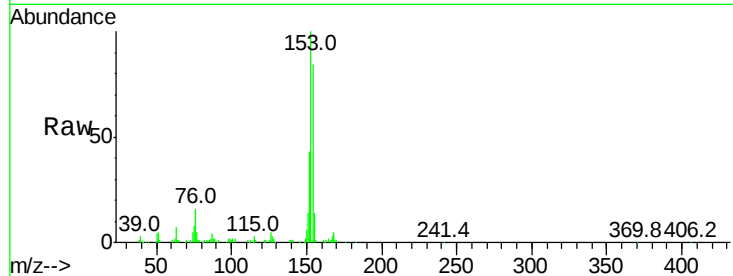
ClientSampled :

SB4-L-12-7DL

Tot Ion:	154	Resp:	87964
Ion Ratio	Lower	Upper	
154	100		
153	118.8	91.2	136.8
152	51.6	43.8	65.8

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#54

Dibenzofuran

Concen: 3.513 ng

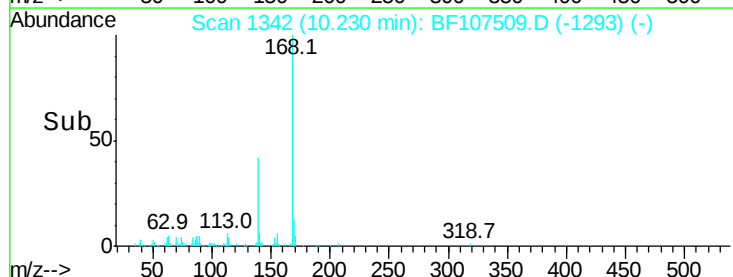
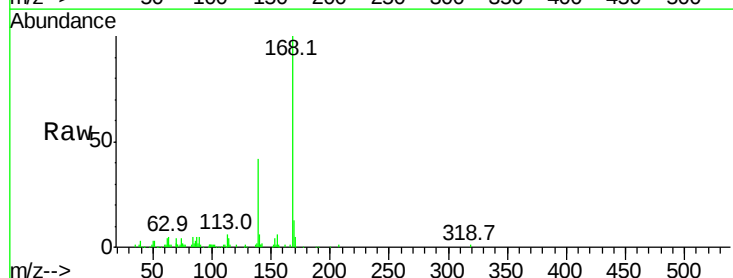
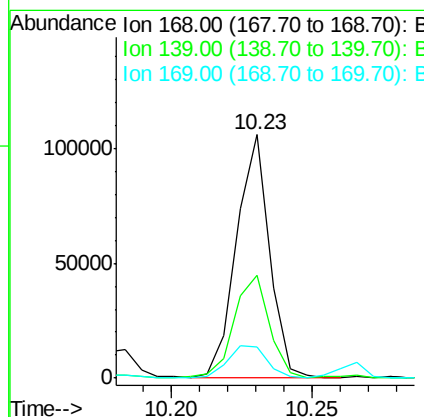
RT: 10.23 min Scan# 1342

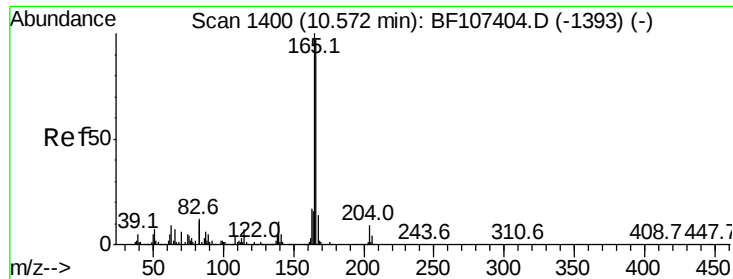
Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion:	168	Resp:	86478
Ion Ratio	Lower	Upper	
168	100		
139	42.0	30.1	45.1
169	12.7	10.9	16.3





#57

Fluorene

Concen: 7.435 ng

RT: 10.57 min Scan# 1400

Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

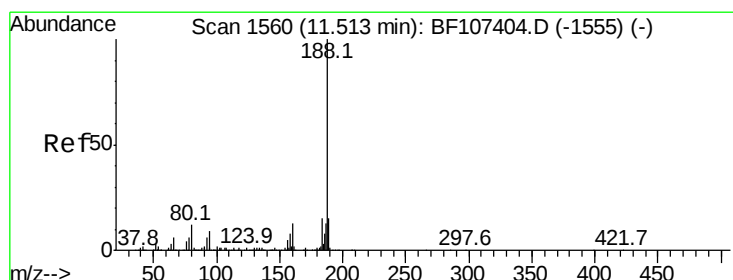
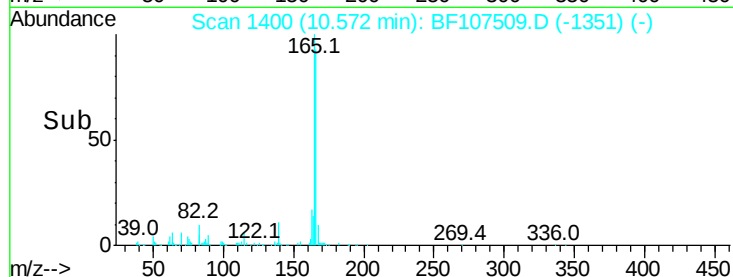
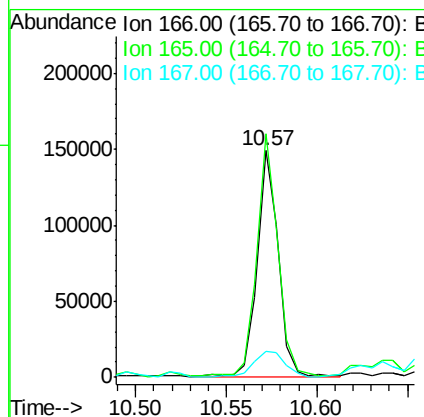
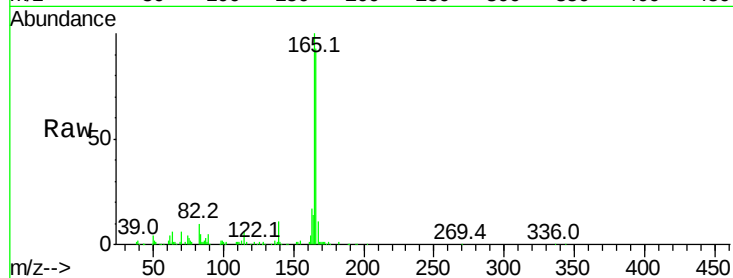
ClientSampleId :

SB4-L-12-7DL

Tot Ion:	166	Resp:	121219
Ion Ratio	Lower	Upper	
166	100		
165	107.4	79.8	119.8
167	11.5	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

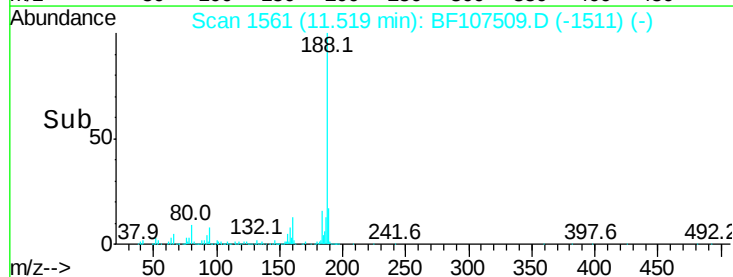
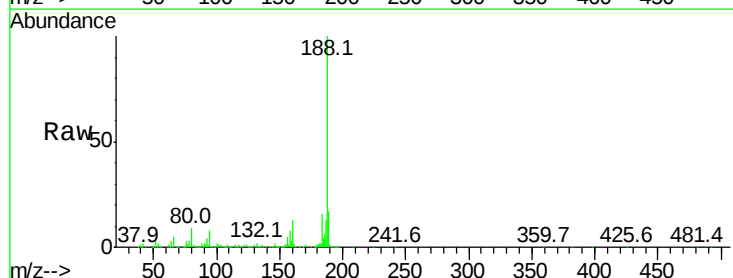
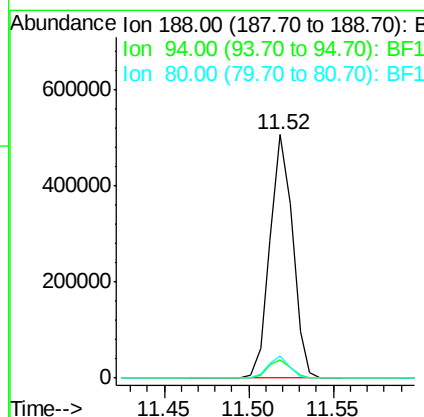
RT: 11.52 min Scan# 1561

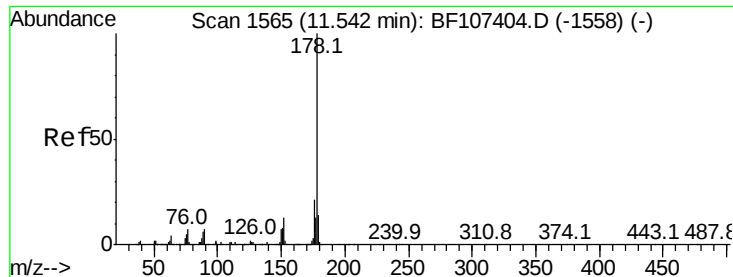
Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion:	188	Resp:	470621
Ion Ratio	Lower	Upper	
188	100		
94	7.5	8.5	12.7#
80	9.1	9.2	13.8#





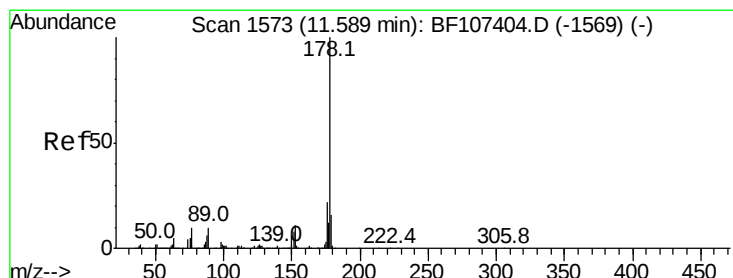
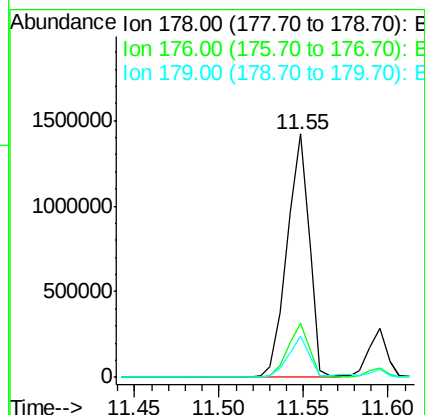
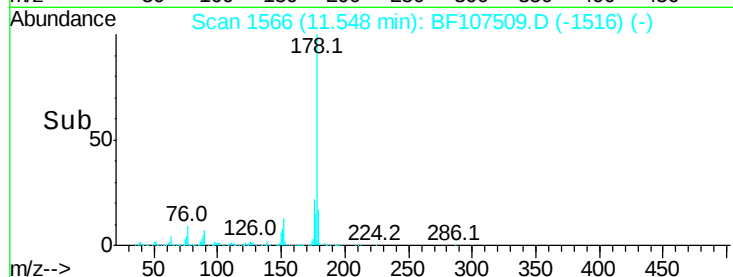
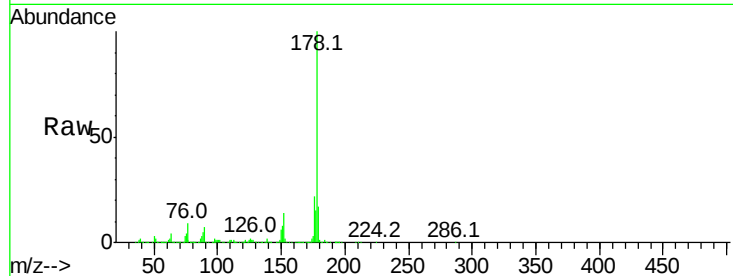
#70
Phenanthrene
Concen: 54.789 ng
RT: 11.55 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Instrument :
BNA_F
ClientSampleId :
SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	22.0	15.8	23.8
179	16.9	13.0	19.6

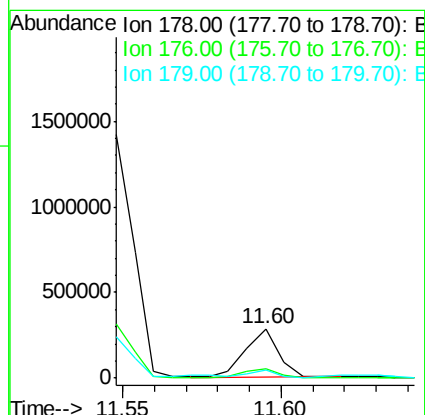
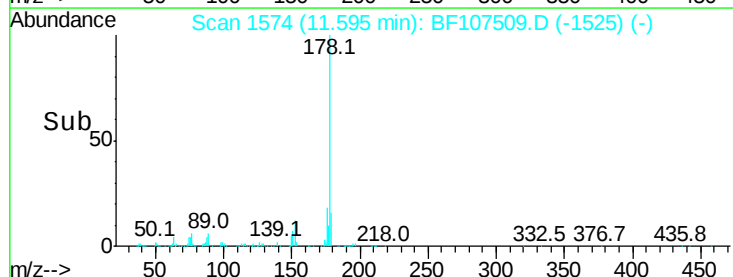
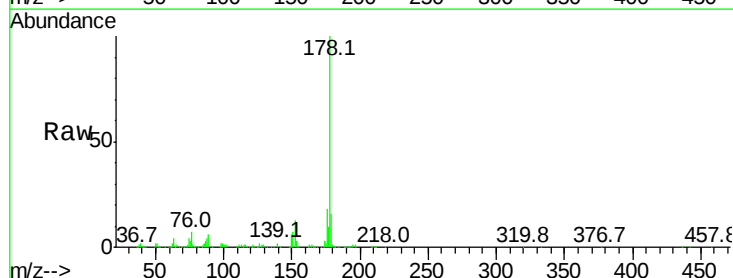
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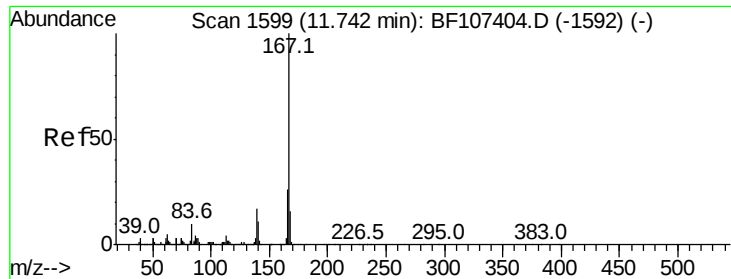
Sohil
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#71
Anthracene
Concen: 8.810 ng
RT: 11.60 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	15.8	12.6	19.0





#72

Carbazole

Concen: 2.263 ng

RT: 11.75 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

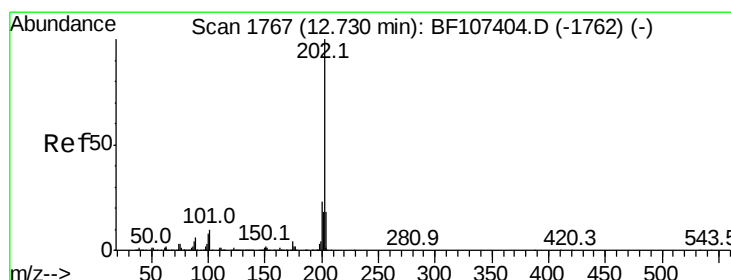
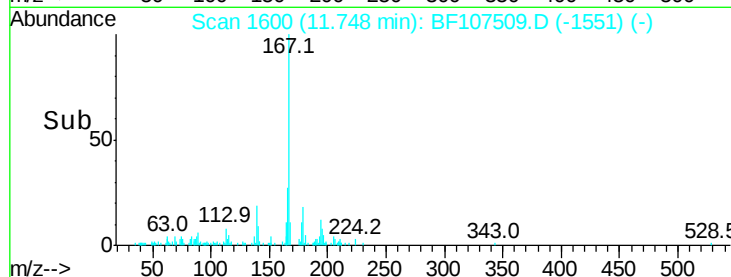
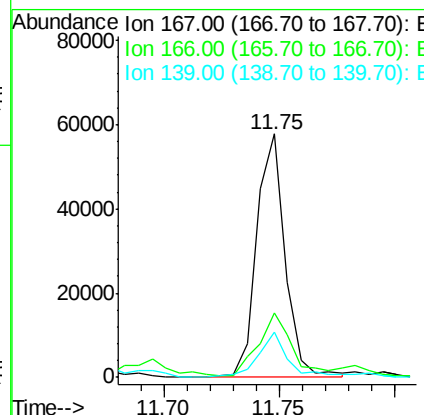
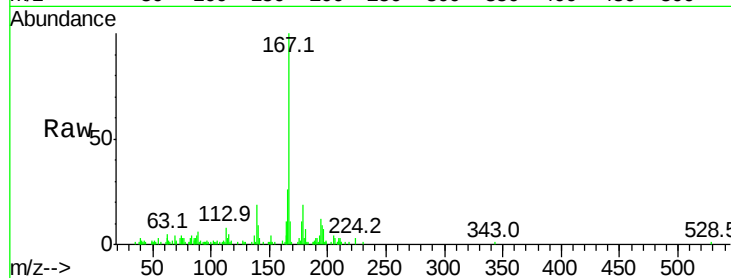
ClientSampleId :

SB4-L-12-7DL

Tot Ion:	167	Resp:	50048
Ion Ratio	Lower	Upper	
167	100		
166	26.5	17.6	26.4#
139	18.5	10.9	16.3#

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#74

Fluoranthene

Concen: 34.081 ng

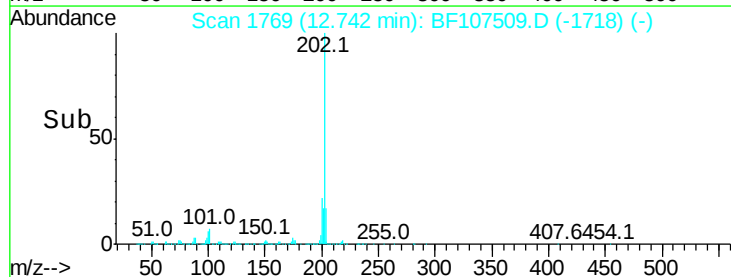
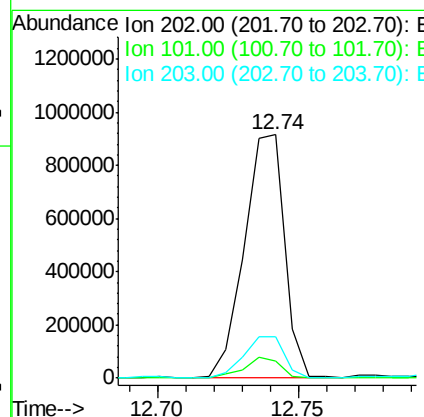
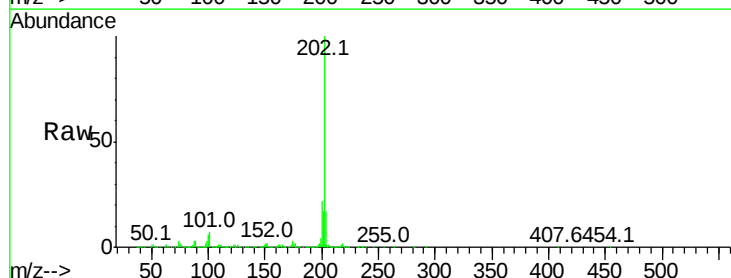
RT: 12.74 min Scan# 1769

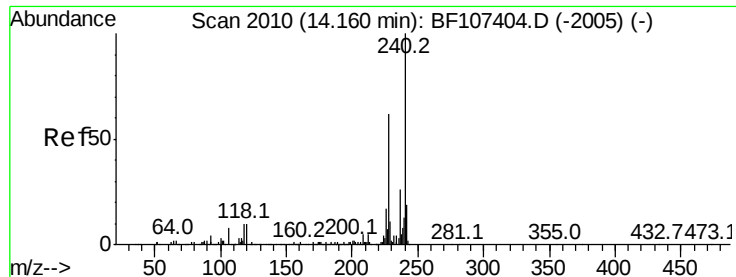
Delta R.T. 0.00 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion:	202	Resp:	908509
Ion Ratio	Lower	Upper	
202	100		
101	7.0	0.0	34.1
203	17.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

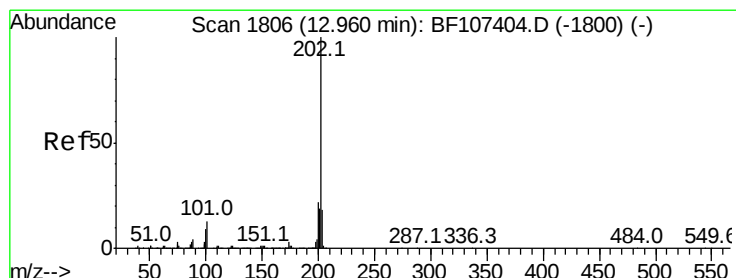
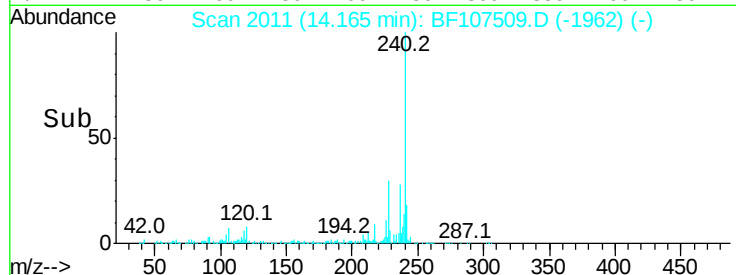
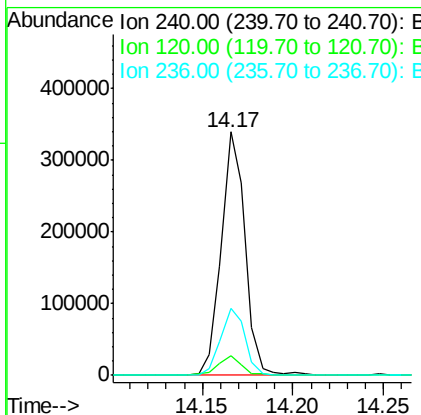
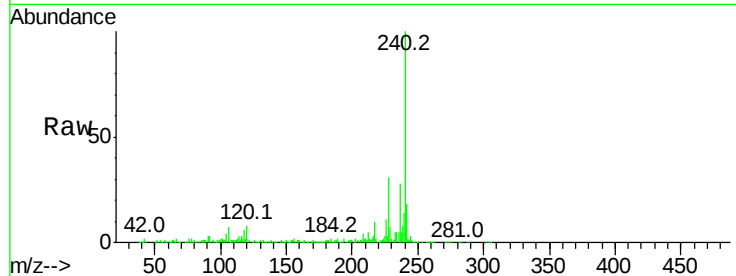
ClientSampleId :

SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.2	9.5	14.3#
236	27.6	20.7	31.1

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#77

Pyrene

Concen: 45.109 ng

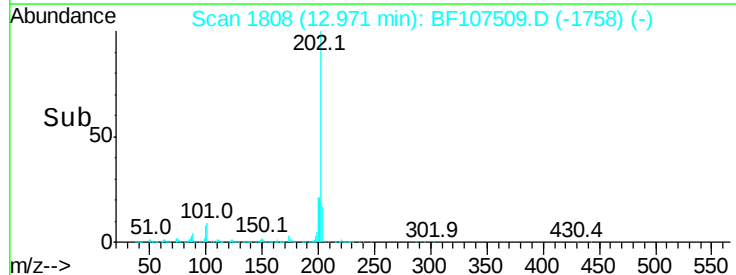
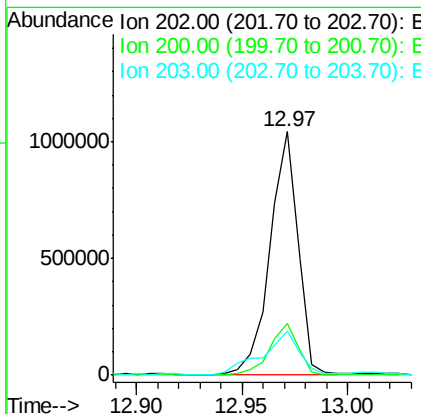
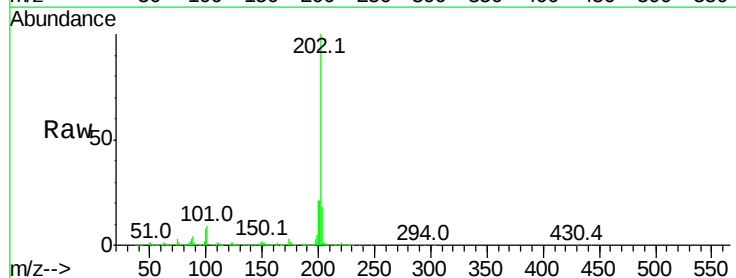
RT: 12.97 min Scan# 1808

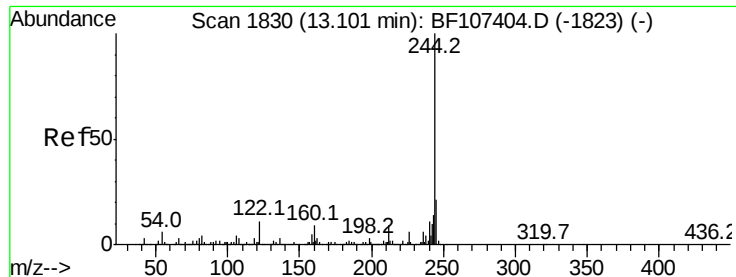
Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2
203	18.3	14.3	21.5





#78

Terphenyl-d14

Concen: 8.385 ng

RT: 13.10 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Instrument :

BNA_F

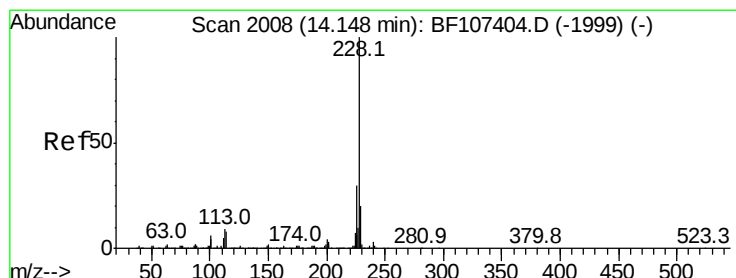
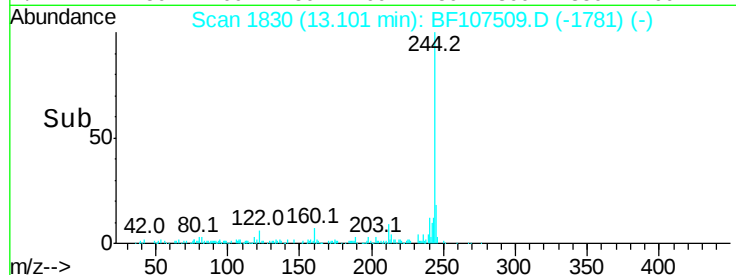
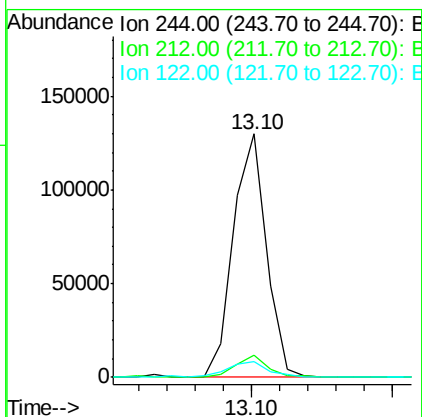
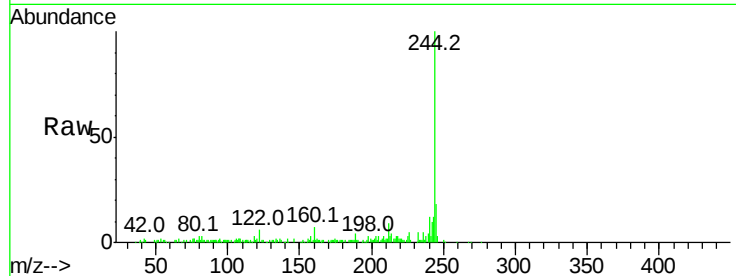
ClientSampleId :

SB4-L-12-7DL

Tot Ion:	244	Resp:	105264
Ion Ratio	Lower	Upper	
244	100		
212	9.4	5.4	8.0#
122	6.3	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 19.438 ng

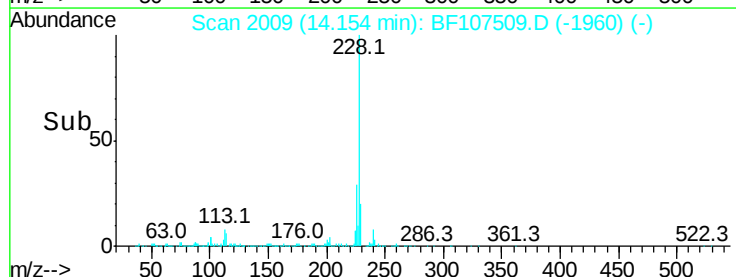
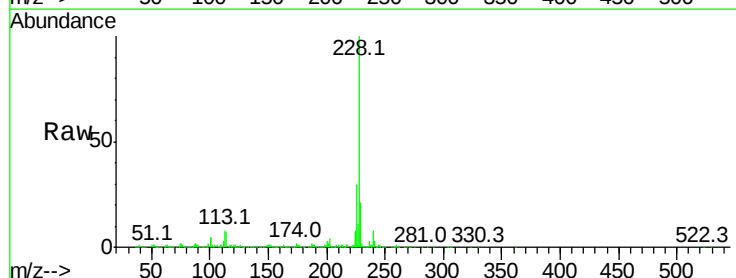
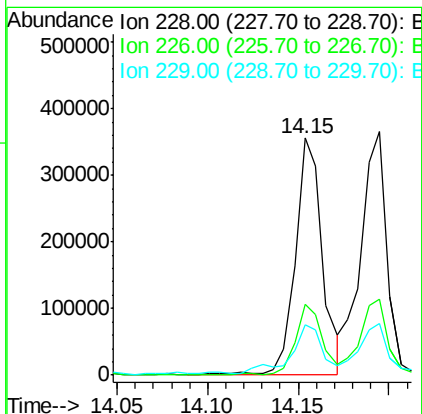
RT: 14.15 min Scan# 2009

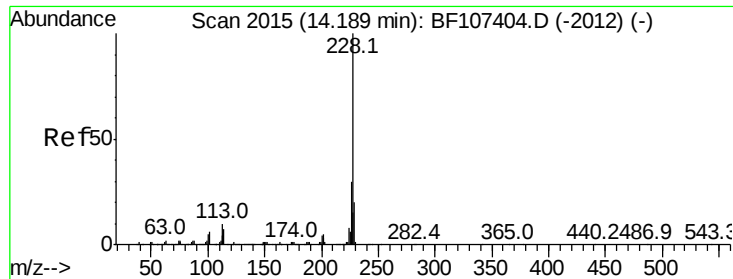
Delta R.T. -0.01 min

Lab File: BF107509.D

Acq: 19 Jul 2018 11:34

Tgt Ion:	228	Resp:	370969
Ion Ratio	Lower	Upper	
228	100		
226	29.9	22.6	33.8
229	21.3	15.8	23.6





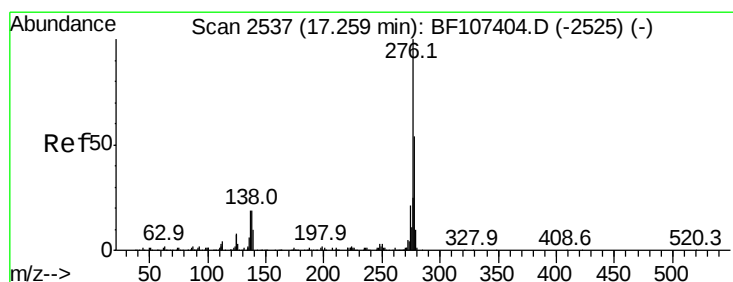
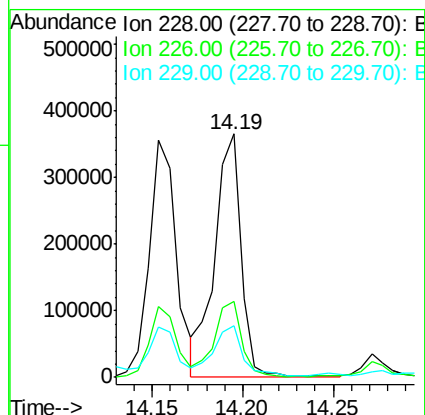
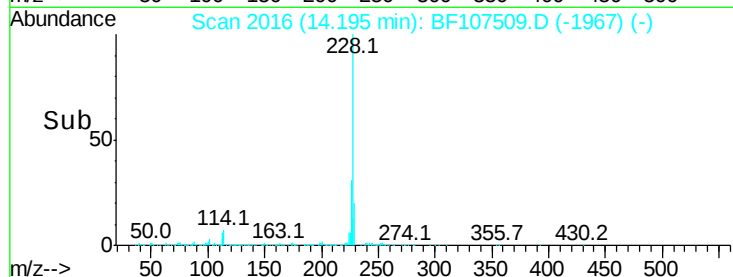
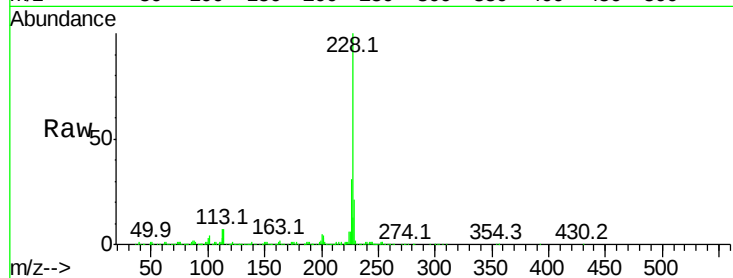
#82
Chrysene
Concen: 20.198 ng
RT: 14.19 min Scan# 2016
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Instrument :
BNA_F
ClientSampleId :
SB4-L-12-7DL

Tot Ion:	228	Resp:	368209
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	21.2	16.2	24.4

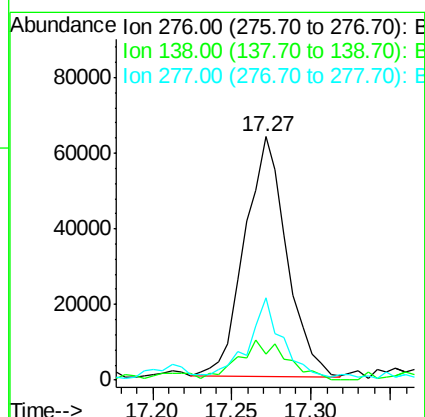
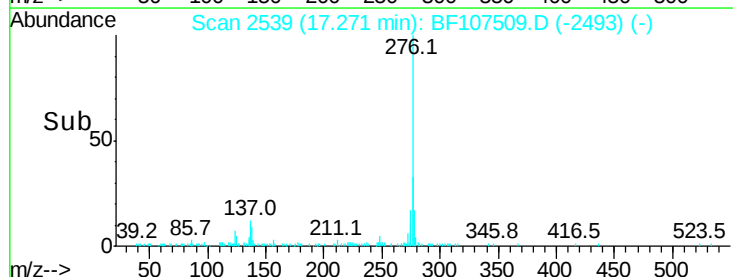
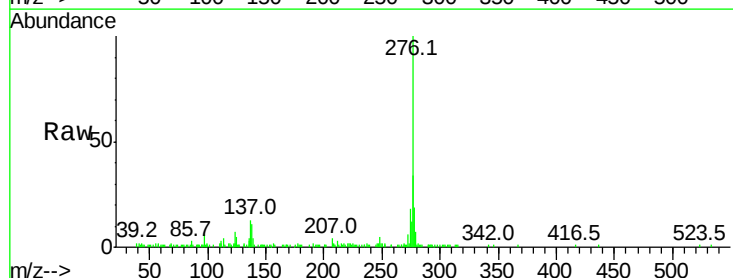
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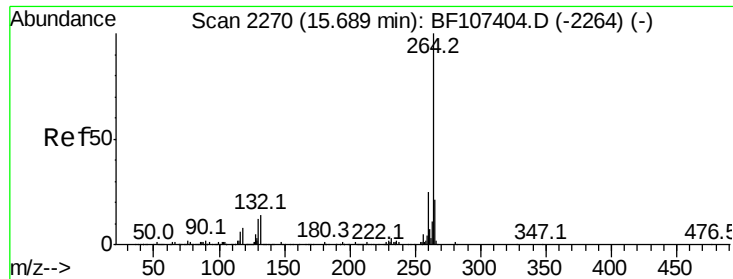
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#85
Indeno(1,2,3-cd)pyrene
Concen: 9.044 ng
RT: 17.27 min Scan# 2539
Delta R.T. -0.03 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Tgt Ion:	276	Resp:	117366
Ion Ratio	Lower	Upper	
276	100		
138	19.0	25.0	37.6#
277	25.8	20.1	30.1





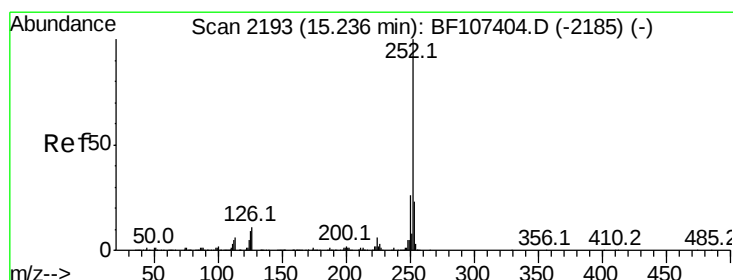
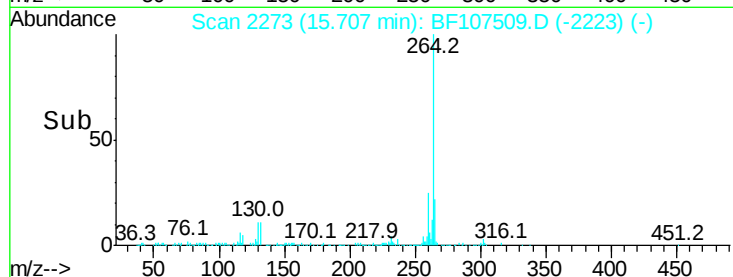
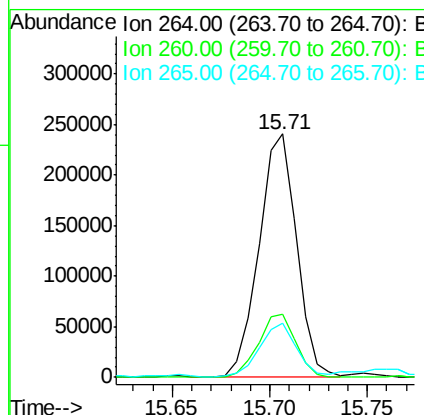
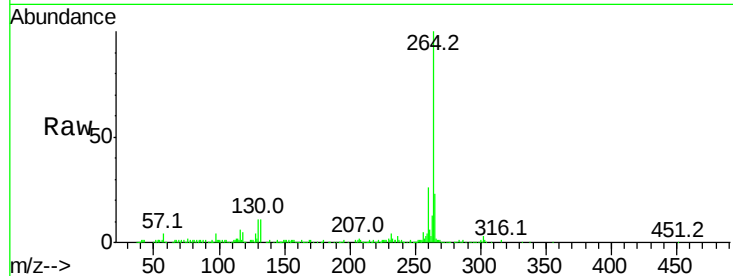
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2273
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Instrument :
BNA_F
ClientSampleId :
SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.8	19.2	28.8
265	22.5	17.5	26.3

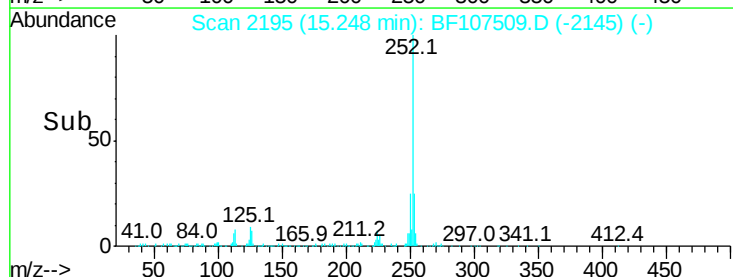
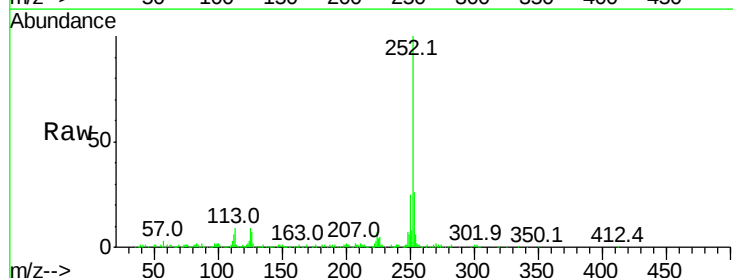
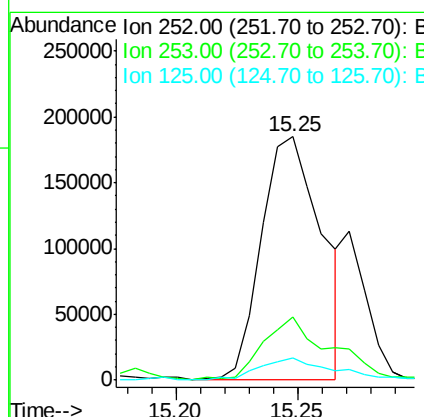
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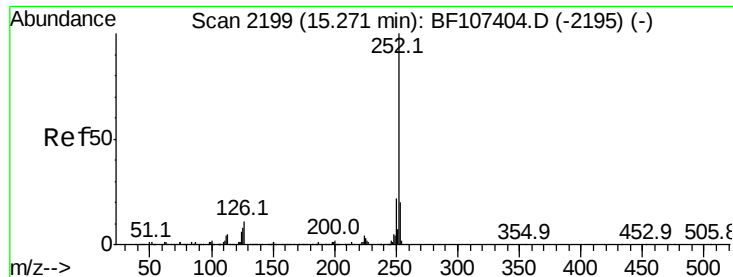
Sohil
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#87
Benzo(b)fluoranthene
Concen: 16.870 ng m
RT: 15.25 min Scan# 2195
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.0	25.6#
125	8.9	9.0	13.6#





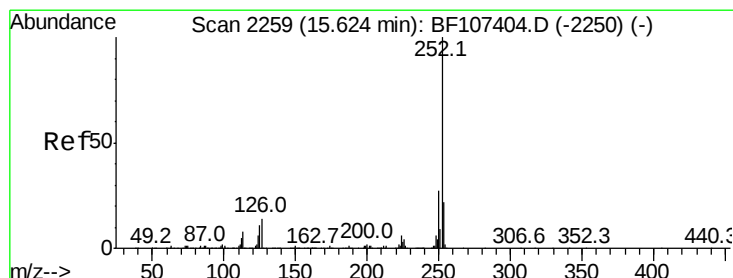
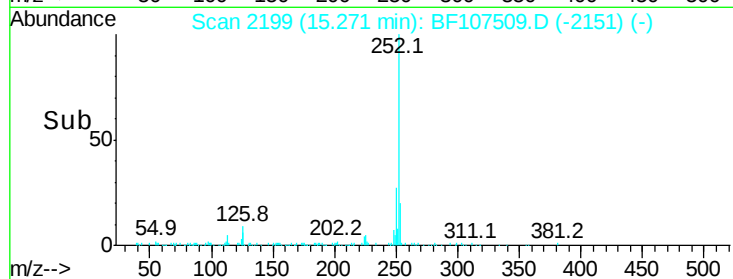
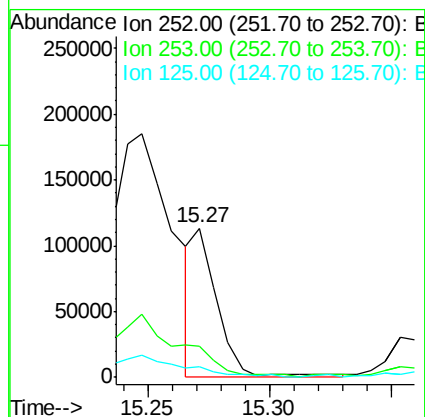
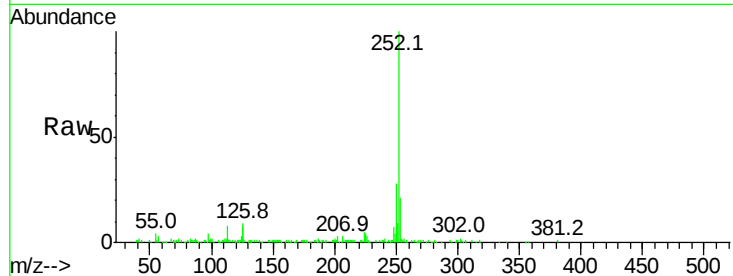
#88
Benzo(k)fluoranthene
Concen: 4.372 ng m
RT: 15.27 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Instrument :
BNA_F
ClientSampleId :
SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.9	26.9
125	7.0	10.2	15.2

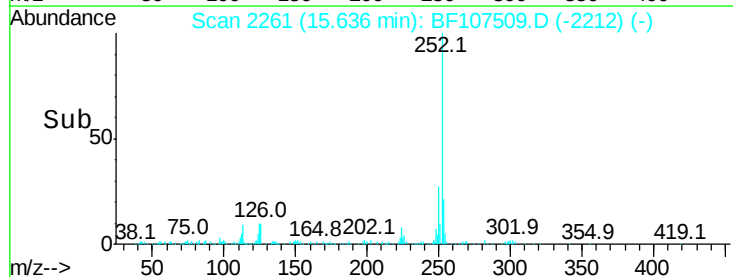
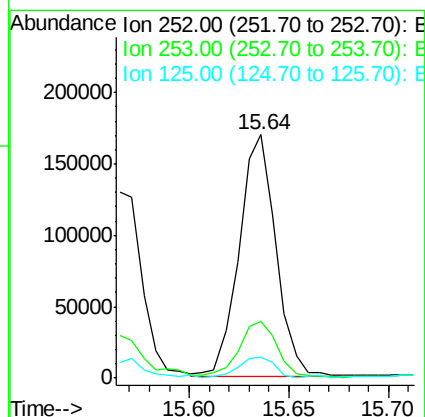
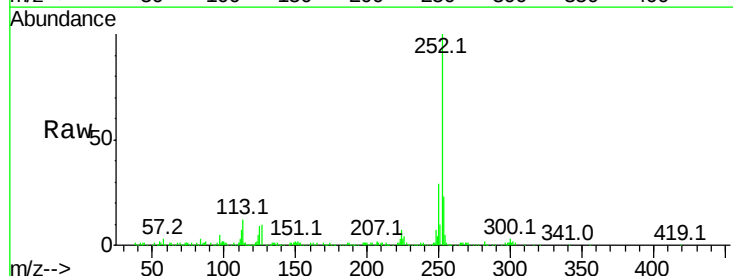
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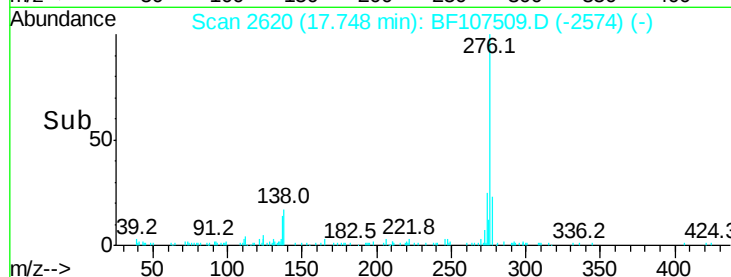
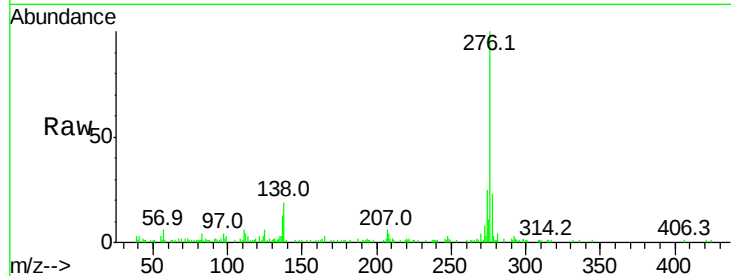
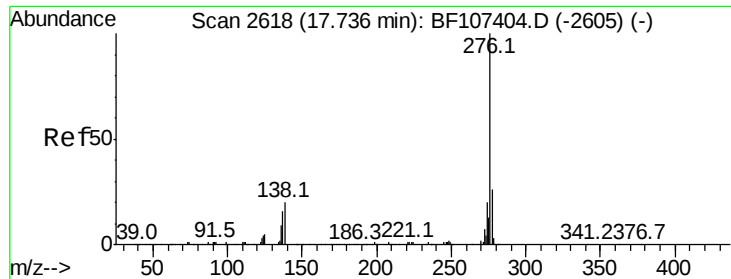
Sohil
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#89
Benzo(a)pyrene
Concen: 12.523 ng m
RT: 15.64 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF107509.D
Acq: 19 Jul 2018 11:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.1	25.7
125	8.8	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 8.587 ng
 RT: 17.75 min Scan# 2620
 Delta R.T. -0.03 min
 Lab File: BF107509.D
 Acq: 19 Jul 2018 11:34

Instrument :
 BNA_F
 ClientSampleId :
 SB4-L-12-7DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	19.3	21.8	32.8

Manual Integrations
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