

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061918\
 Data File : BF106595.D
 Acq On : 19 Jun 2018 21:10
 Operator : JU/SJ
 Sample : J3249-07 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-D

Manual Integrations
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 6/20/2018 4:58:35 PM

Quant Time: Jun 20 06:40:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	112565	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	418671	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	178924	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	285107	20.00	ng	0.00
75) Chrysene-d12	14.16	240	264410	20.00	ng	0.00
86) Perylene-d12	15.70	264	251354	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	241121	36.27	ng	0.00
7) Phenol-d6	6.60	99	298534	35.96	ng	0.00
23) Nitrobenzene-d5	7.52	82	185133	24.57	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	60591	29.22	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	348098	22.00	ng	-0.01
78) Terphenyl-d14	13.08	244	298714	27.37	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	52046	2.659	ng	97
37) 2-Methylnaphthalene	8.95	142	32623	2.514	ng	99
48) Acenaphthylene	9.87	152	72790	4.108	ng	99
49) Dimethylphthalate	9.71	163	38265	2.851	ng	# 98
51) Acenaphthene	10.04	154	67546	6.053	ng	98
54) Dibenzofuran	10.21	168	85145	5.572	ng	96
57) Fluorene	10.55	166	129541	10.684	ng	100
70) Phenanthrene	11.52	178	902541	65.633	ng	98
71) Anthracene	11.57	178	371650	26.478	ng	100
72) Carbazole	11.72	167	43578	3.316	ng	97
74) Fluoranthene	12.72	202	1600042	105.567	ng	95
77) Pyrene	12.96	202	1513739	86.817	ng	96
80) Benzo(a)anthracene	14.15	228	1059387	65.739	ng	95
82) Chrysene	14.18	228	937355m	63.225	ng	
85) Indeno(1,2,3-cd)pyrene	17.27	276	414694	32.961	ng	# 88
87) Benzo(b)fluoranthene	15.25	252	1222648m	78.305	ng	
88) Benzo(k)fluoranthene	15.27	252	377932m	25.417	ng	
89) Benzo(a)pyrene	15.64	252	836449	60.261	ng	95
90) Dibenzo(a,h)anthracene	17.28	278	107445m	9.134	ng	
91) Benzo(a,h,i)perylene	17.75	276	385862	33.559	ng	# 91

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

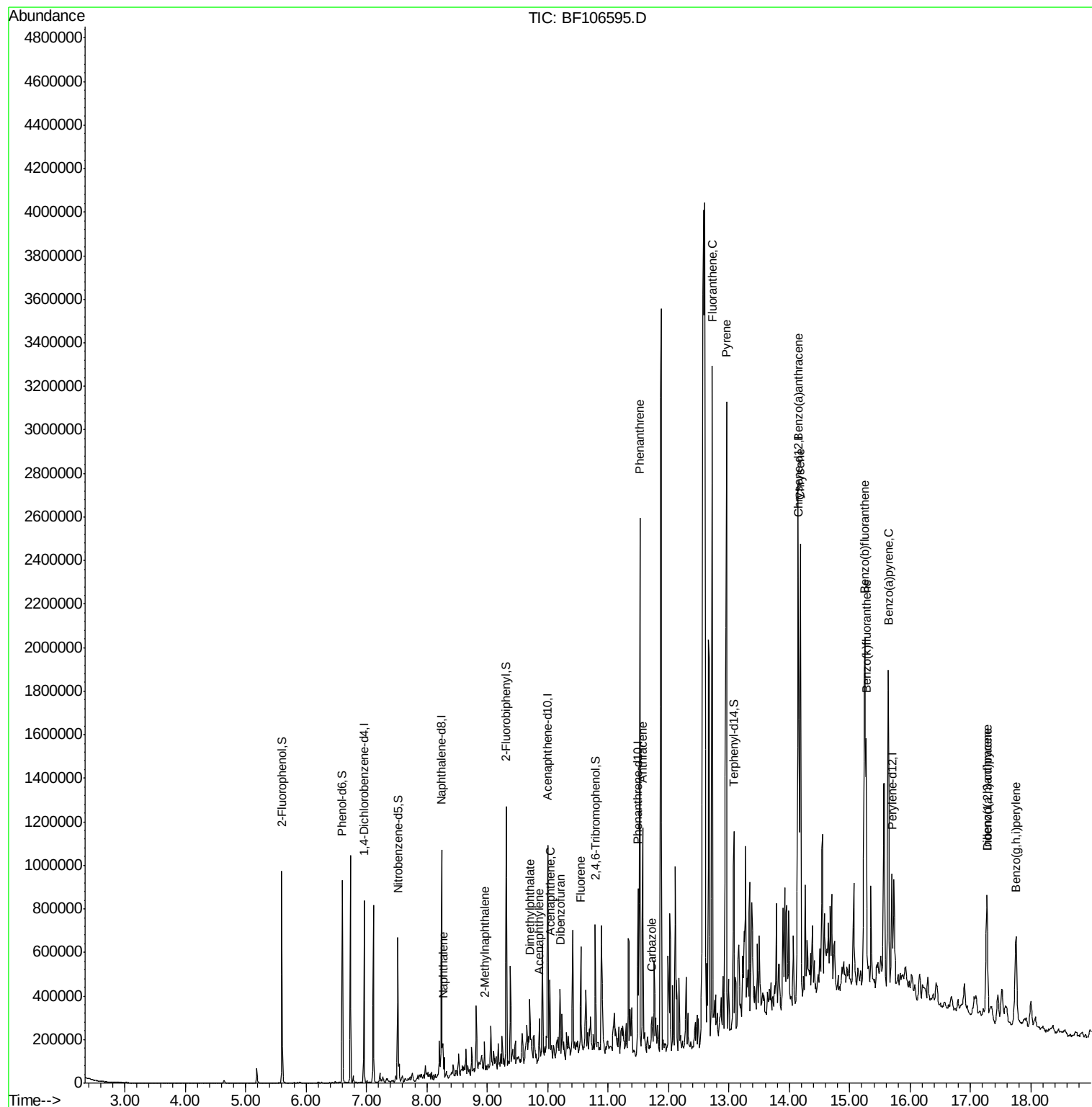
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061918\
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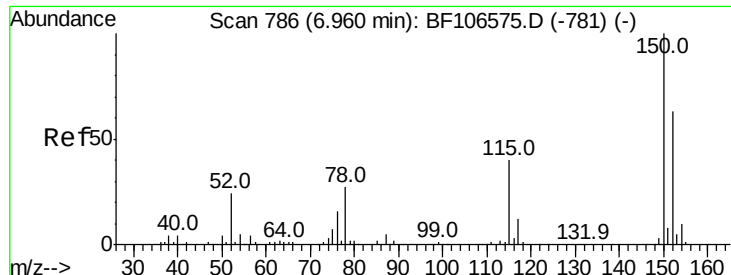
Instrument :
BNA_F
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PL-01-061818-D

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#1

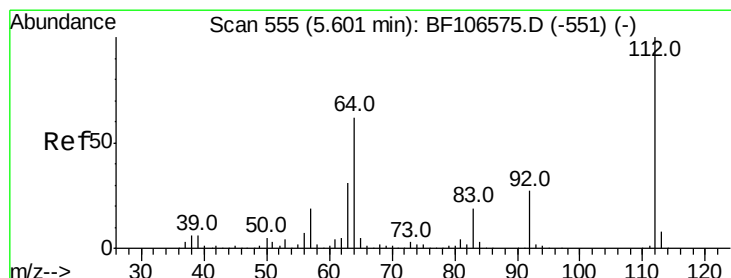
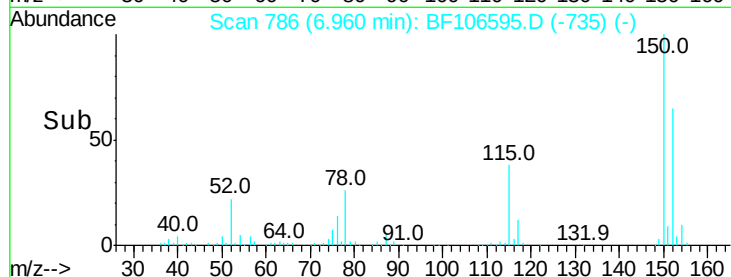
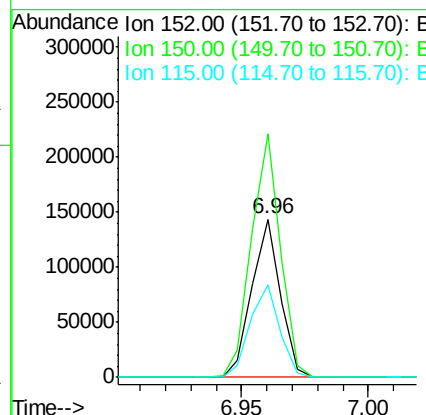
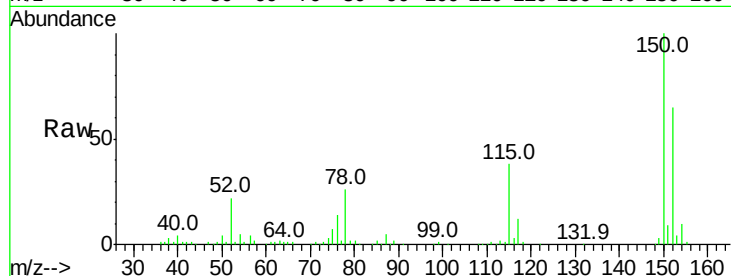
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.6	186.8
115	58.7	50.1	75.1

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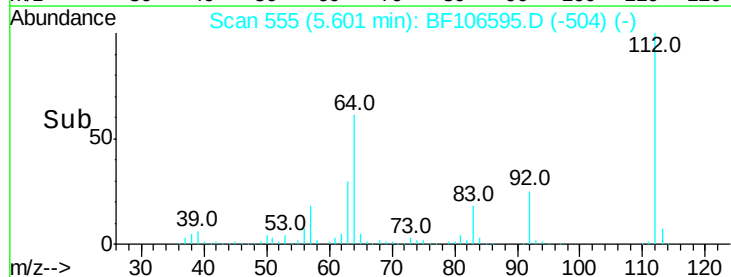
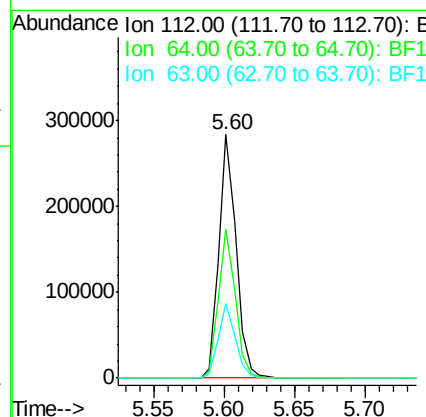
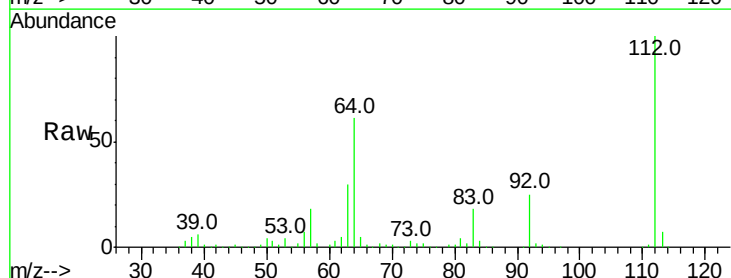
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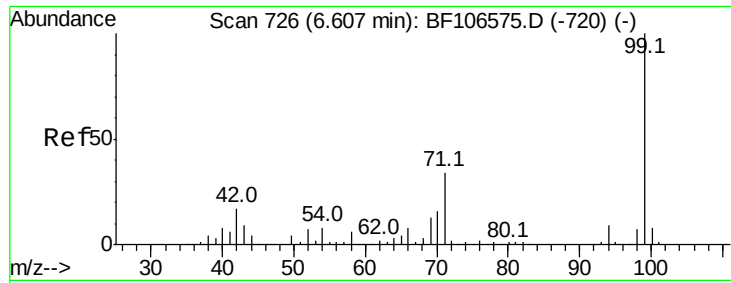


#5

2-Fluorophenol
Concen: 36.272 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	47.9	71.9
63	30.4	23.7	35.5





#7

Phenol-d6

Concen: 35.961 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

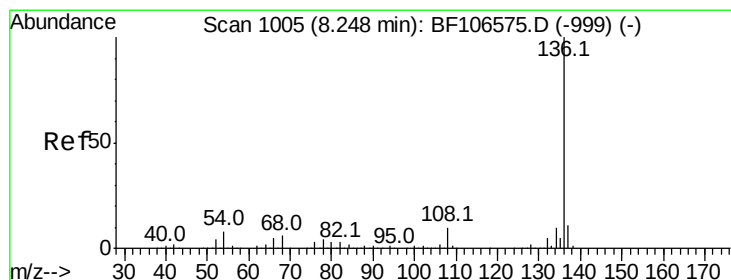
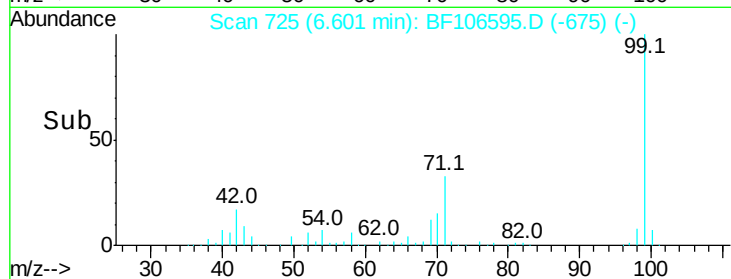
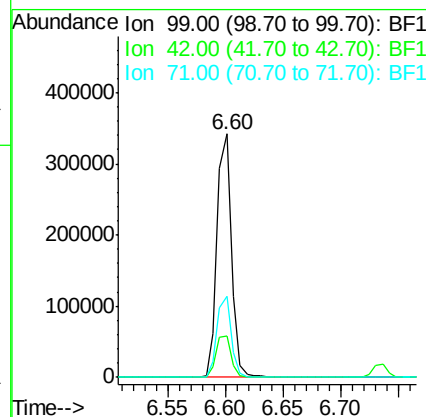
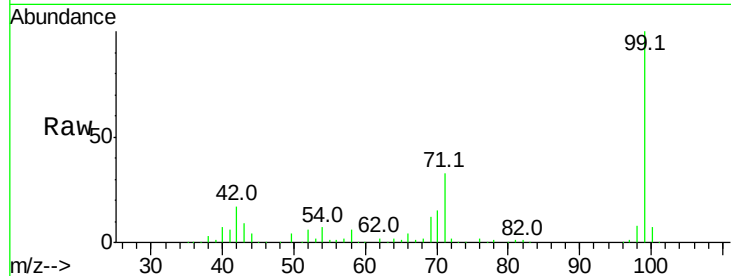
ClientSampleId :

PL-01-061818-D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		298534		
42	17.0	14.5	21.7		
71	33.2	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

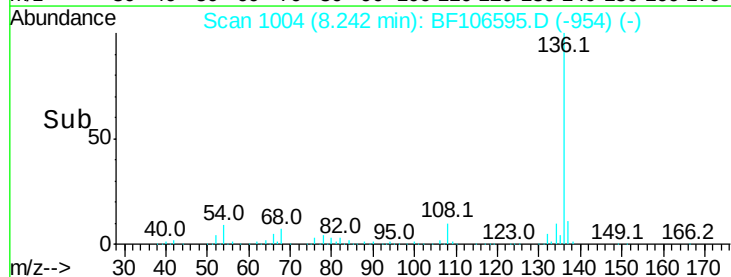
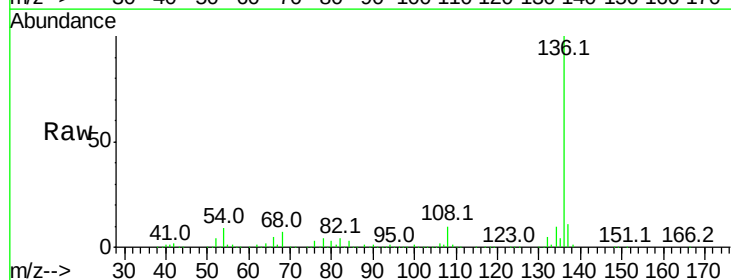
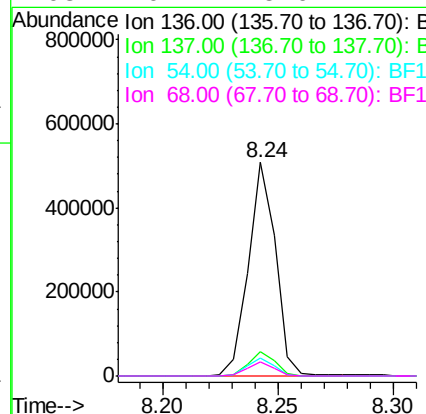
RT: 8.24 min Scan# 1004

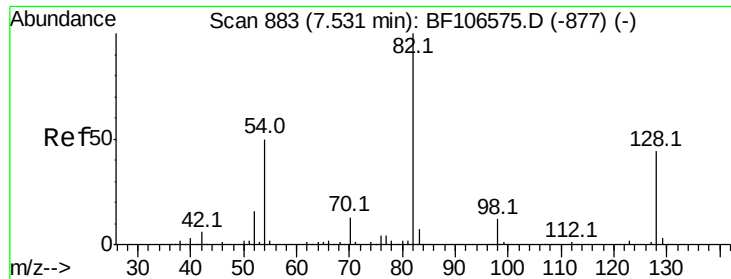
Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		418671		
137	11.1	8.9	13.3		
54	8.7	6.6	9.8		
68	6.7	5.0	7.4		





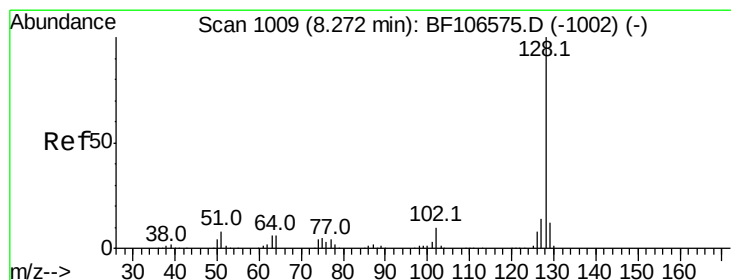
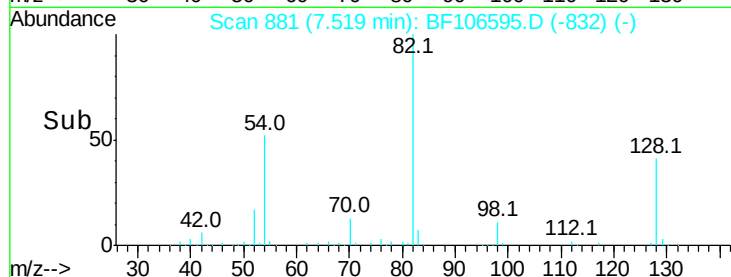
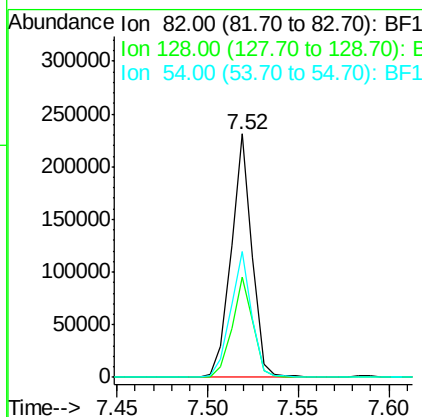
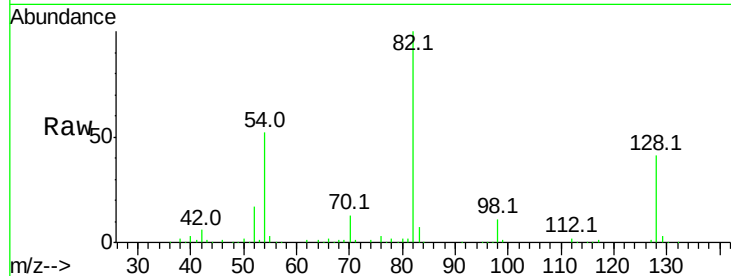
#23
 Nitrobenzene-d5
 Concen: 24.574 ng
 RT: 7.52 min Scan# 881
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-D

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	41.1	36.1	54.1	
54	51.6	41.4	62.2	

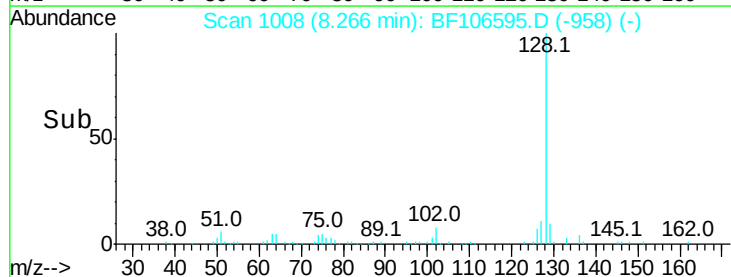
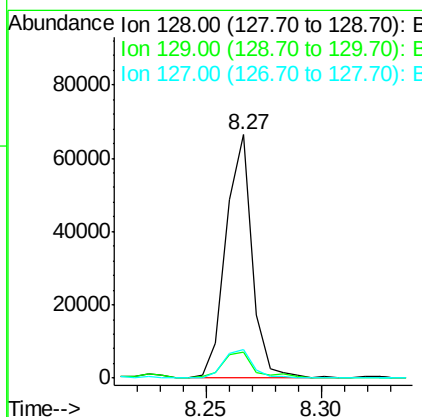
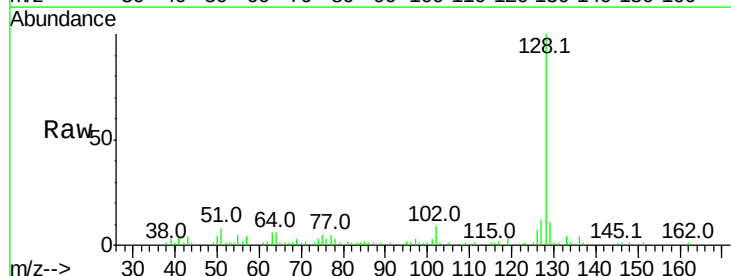
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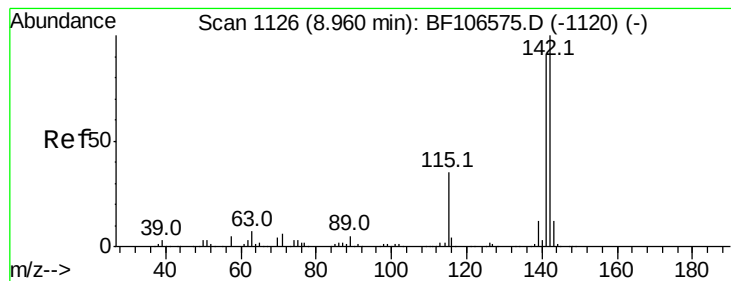
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#31
 Naphthalene
 Concen: 2.659 ng
 RT: 8.27 min Scan# 1008
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	8.8	13.2	
127	11.9	10.9	16.3	





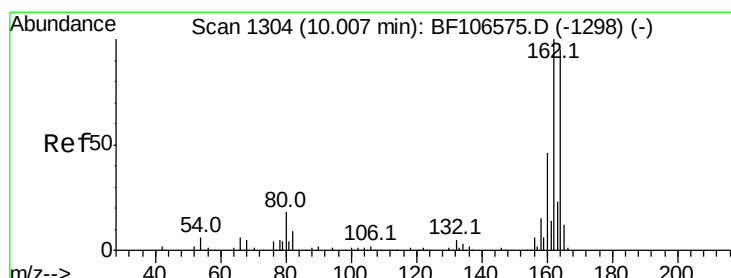
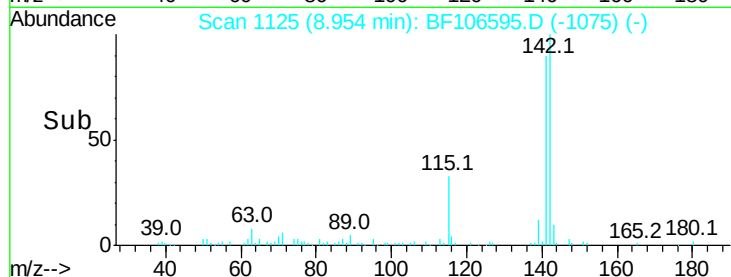
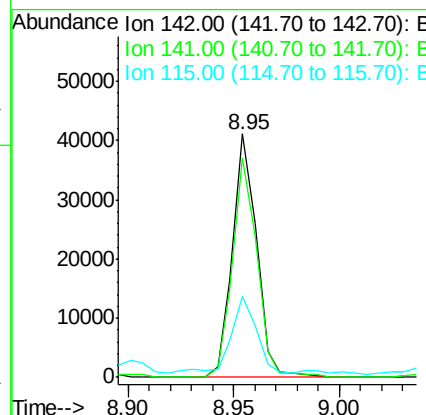
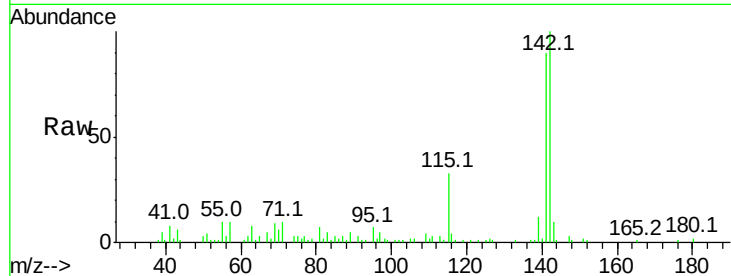
#37
 2-Methylnaphthalene
 Concen: 2.514 ng
 RT: 8.95 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-D

Tot Ion	Ratio	Resp	Lower	Upper
142	100	32623		
141	89.9		70.8	106.2
115	33.3		26.1	39.1

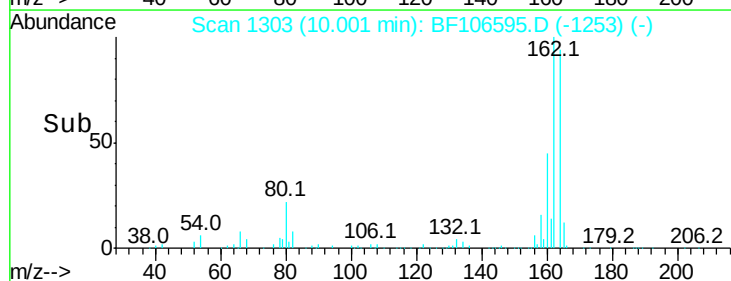
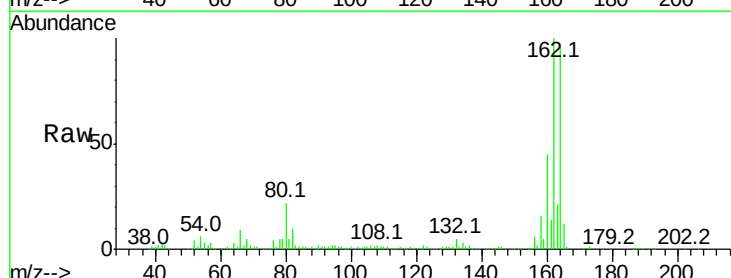
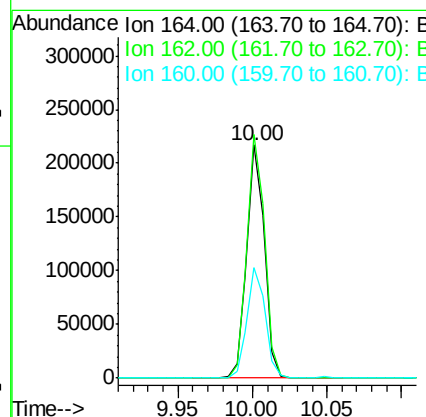
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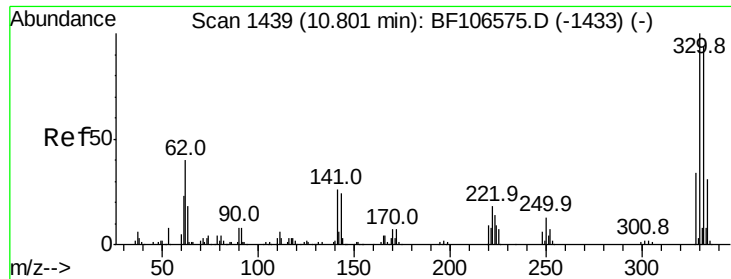
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	178924		
162	104.5		86.1	129.1
160	47.2		38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 29.218 ng

RT: 10.80 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

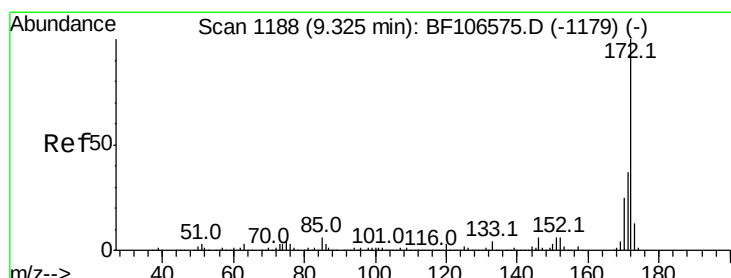
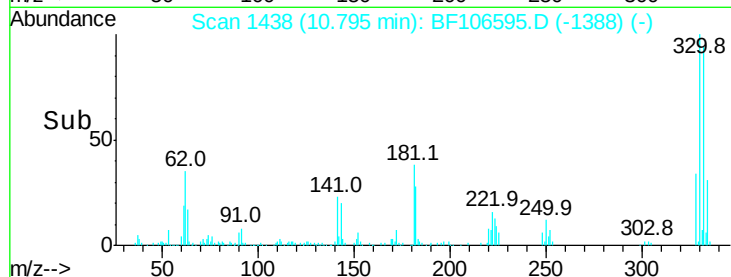
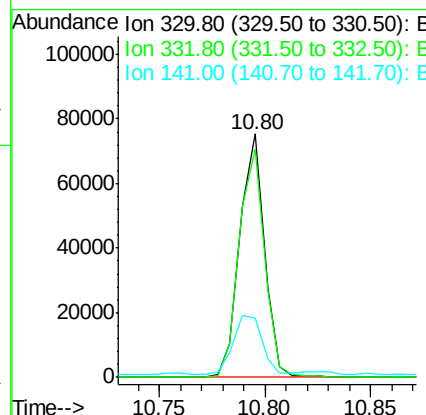
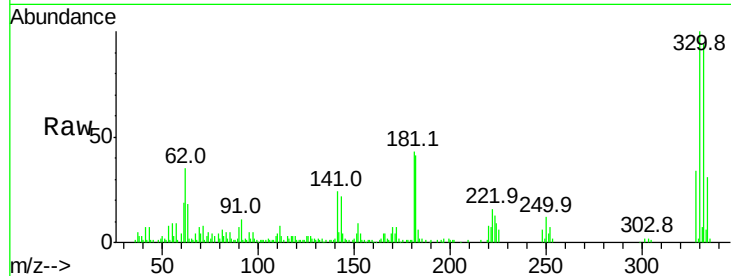
ClientSampleId :

PL-01-061818-D

Tot Ion:	330	Resp:	60591
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.0	115.6
141	28.1	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 21.996 ng

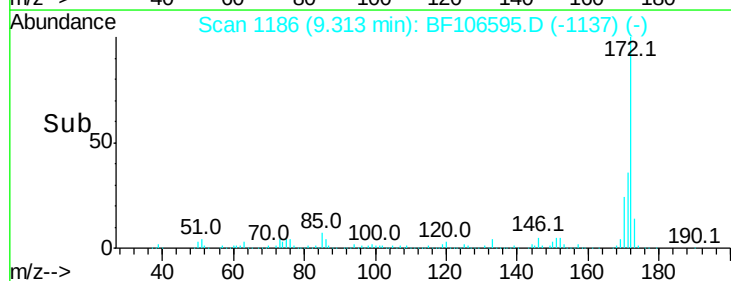
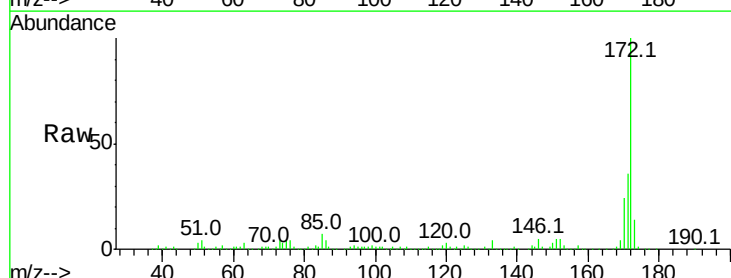
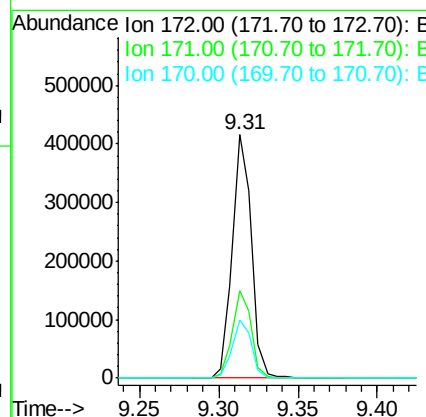
RT: 9.31 min Scan# 1186

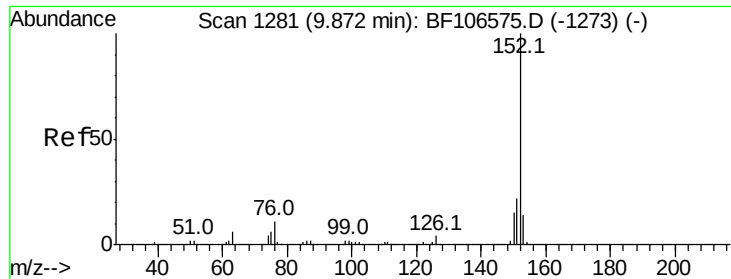
Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Tgt Ion:	172	Resp:	348098
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.7	44.5
170	23.8	19.6	29.4





#48

Acenaphthylene

Concen: 4.108 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

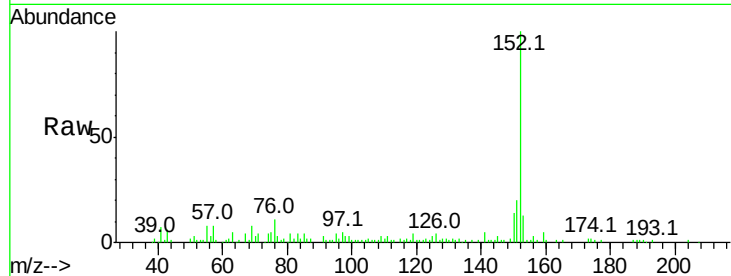
ClientSampled :

PL-01-061818-D

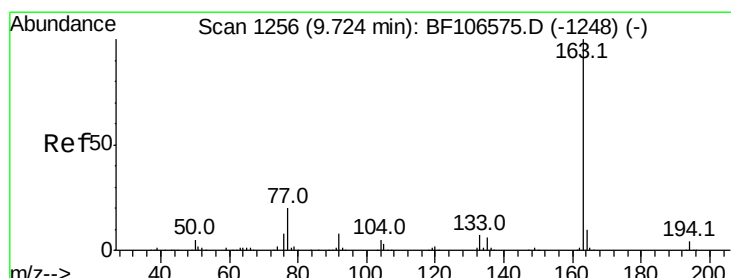
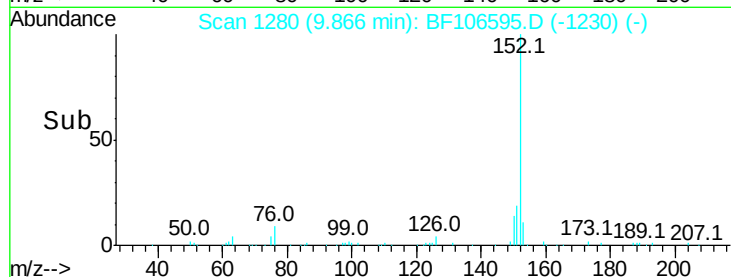
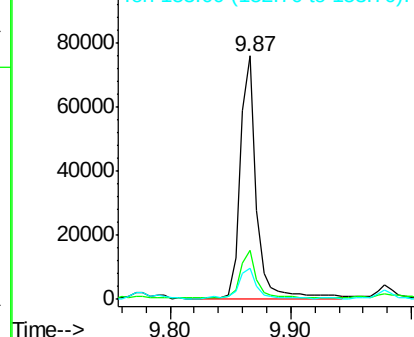
Tot Ion:	152	Resp:	72790
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.0	10.7	16.1

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.851 ng

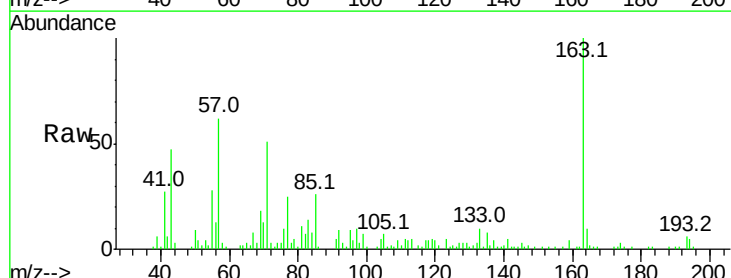
RT: 9.71 min Scan# 1253

Delta R.T. -0.02 min

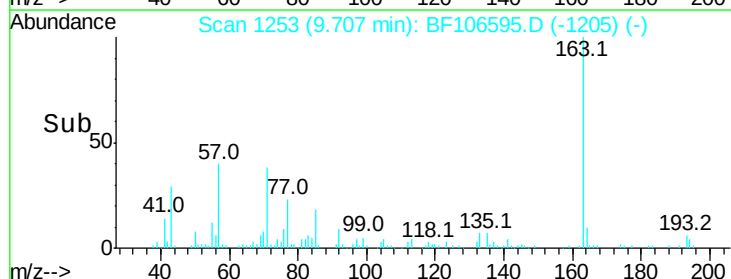
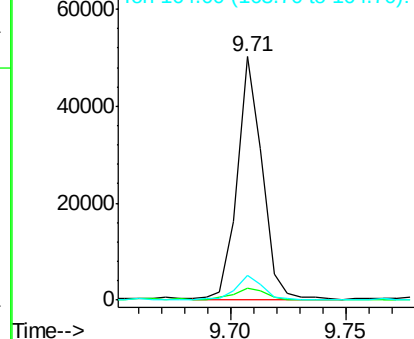
Lab File: BF106595.D

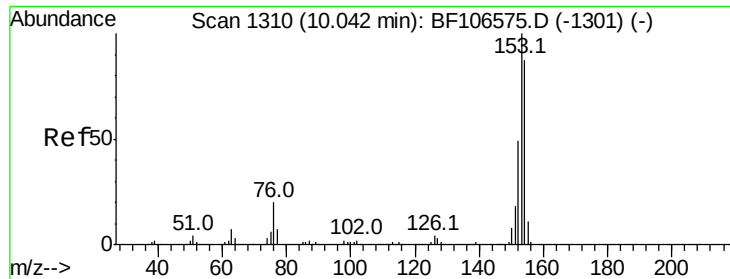
Acq: 19 Jun 2018 21:10

Tgt Ion:	163	Resp:	38265
Ion Ratio	Lower	Upper	
163	100		
194	5.2	2.7	4.1#
164	10.0	8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 6.053 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

ClientSampleId :

PL-01-061818-D

Tot Ion:154 Resp: 67546

Ion Ratio Lower Upper

154 100

153 115.3 91.2 136.8

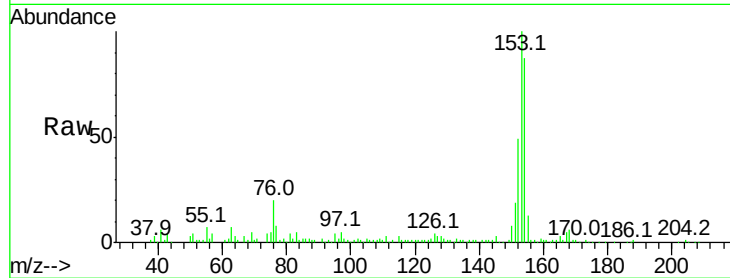
152 56.5 43.8 65.8

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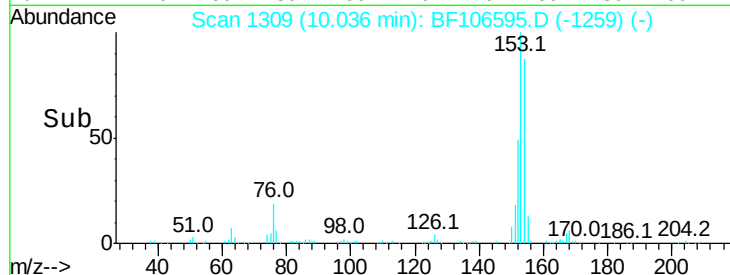
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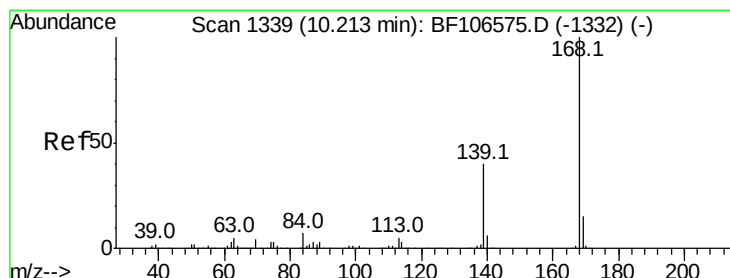
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#54

Dibenzofuran

Concen: 5.572 ng

RT: 10.21 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

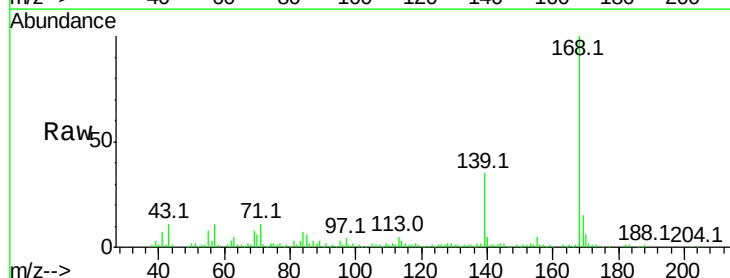
Tgt Ion:168 Resp: 85145

Ion Ratio Lower Upper

168 100

139 35.2 30.1 45.1

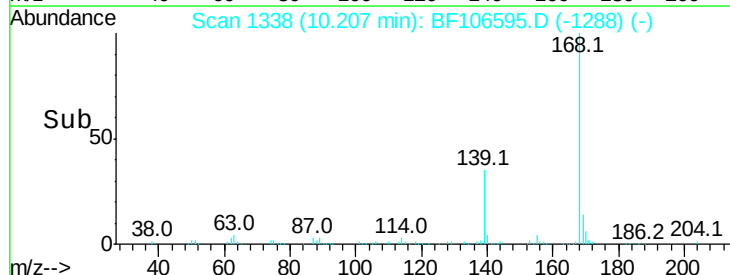
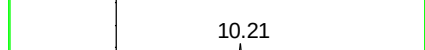
169 14.7 10.9 16.3



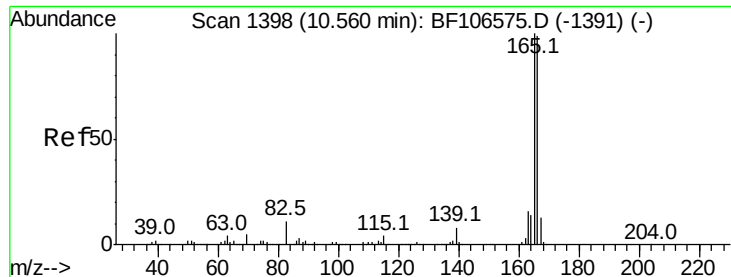
Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



Time-->



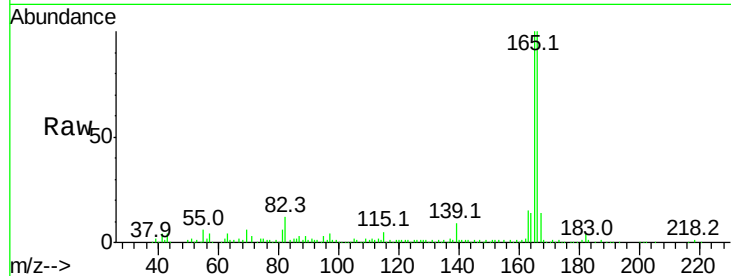
#57
Fluorene
 Concen: 10.684 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-D

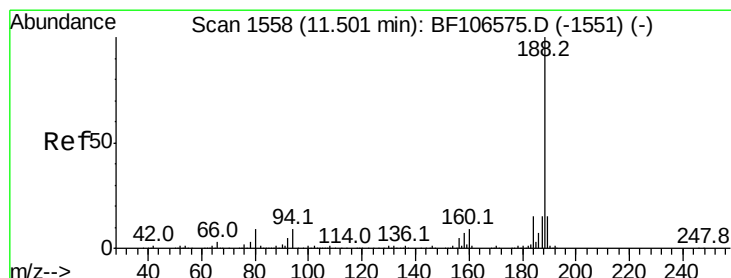
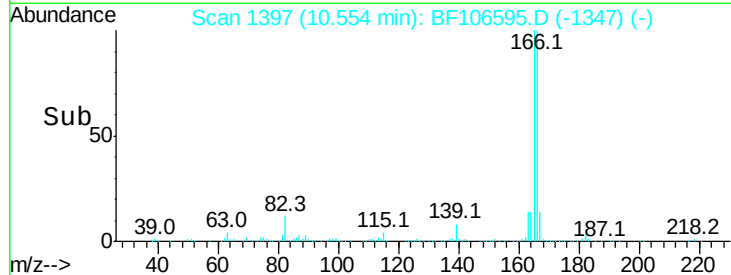
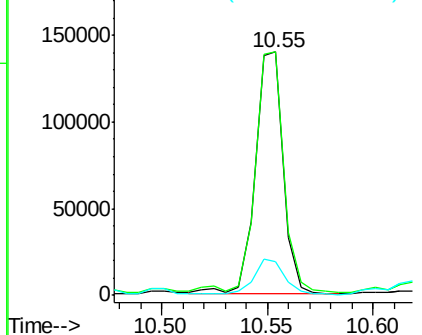
Tot Ion	Ratio	Resp	Lower	Upper
166	100	129541		
165	100.1	79.8	119.8	
167	14.1	10.6	16.0	

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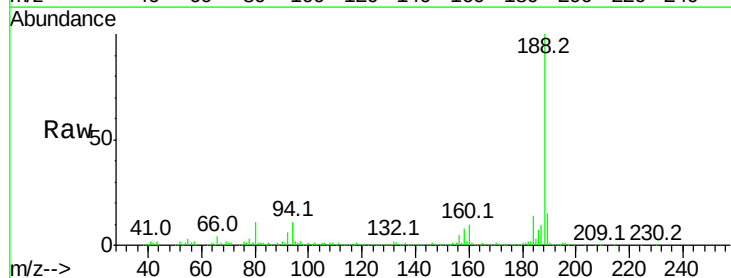


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

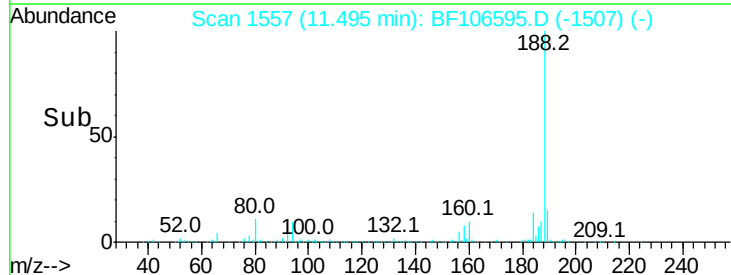
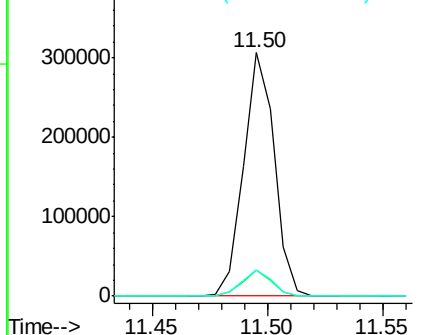


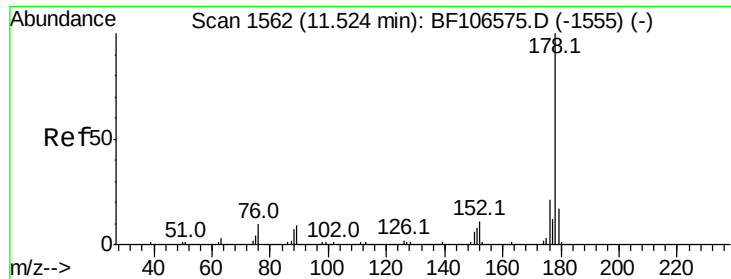
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	285107		
94	10.6	8.5	12.7	
80	10.8	9.2	13.8	



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





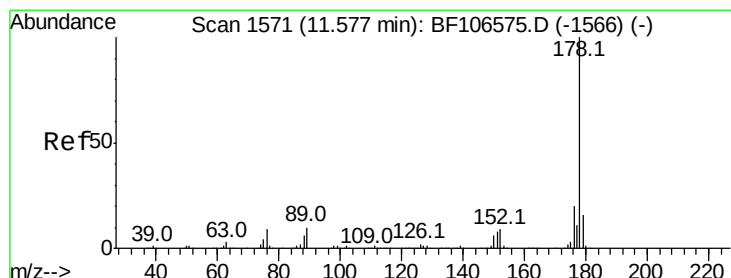
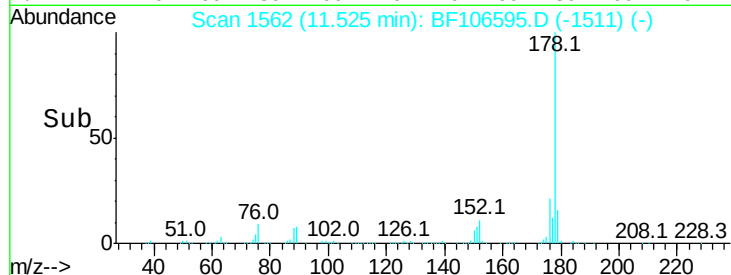
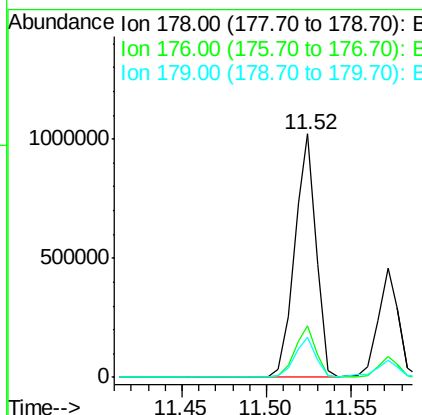
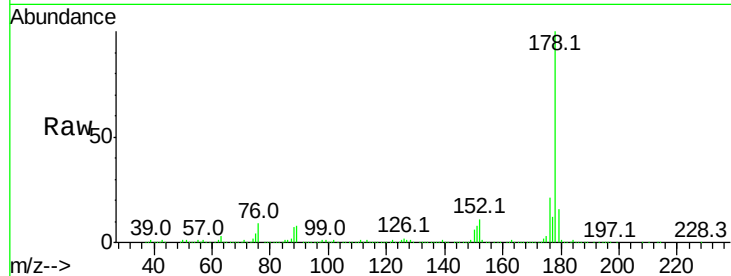
#70
Phenanthrene
Concen: 65.633 ng
RT: 11.52 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Instrument :
BNA_F
ClientSampled :
PL-01-061818-D

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.3	15.8	23.8
179	16.2	13.0	19.6

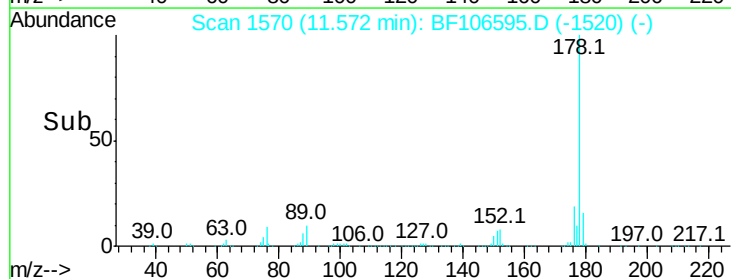
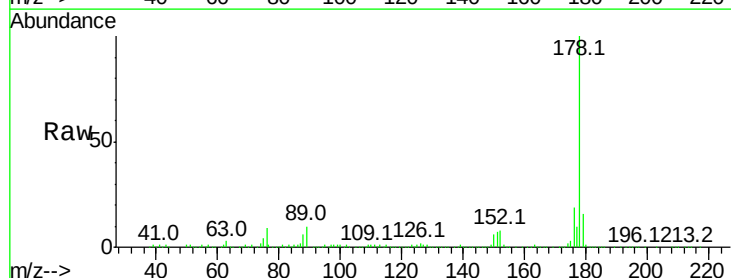
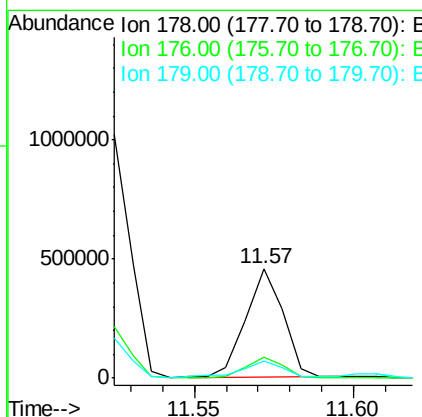
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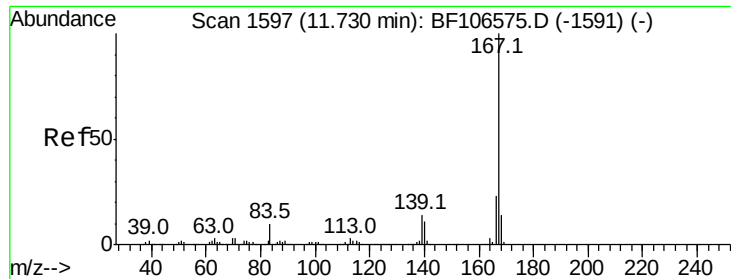
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#71
Anthracene
Concen: 26.478 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.6	19.0





#72

Carbazole

Concen: 3.316 ng

RT: 11.72 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

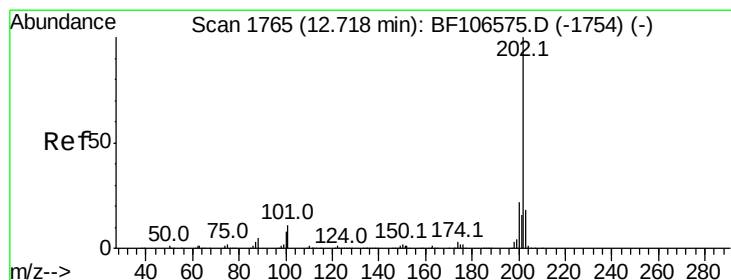
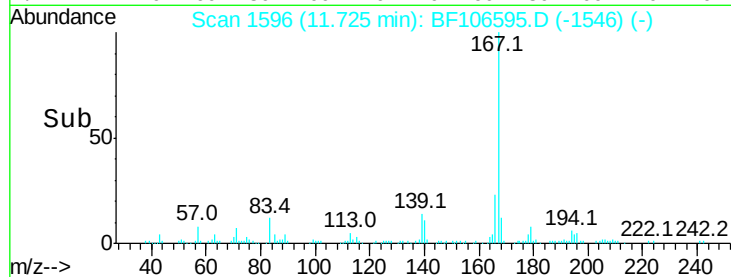
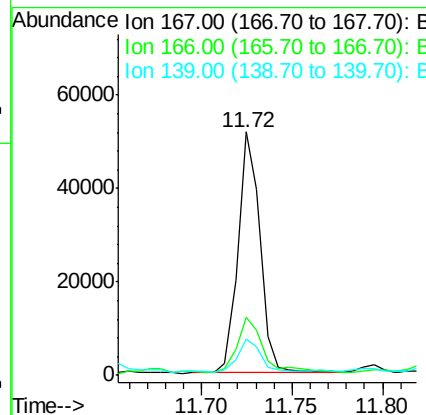
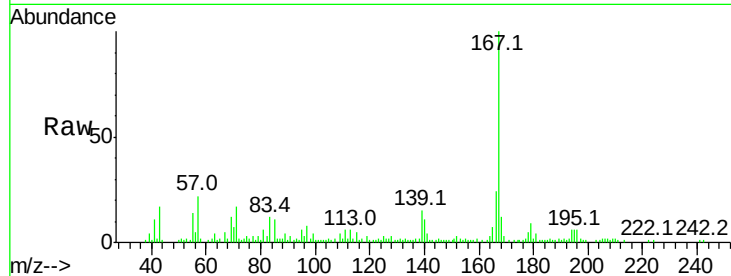
ClientSampled :

PL-01-061818-D

Tot Ion:	167	Resp:	43578
Ion Ratio	Lower	Upper	
167	100		
166	23.9	17.6	26.4
139	14.7	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 105.567 ng

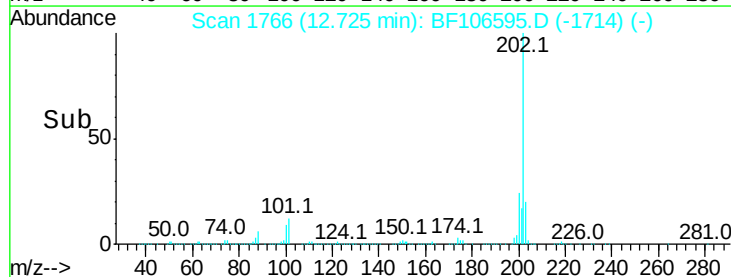
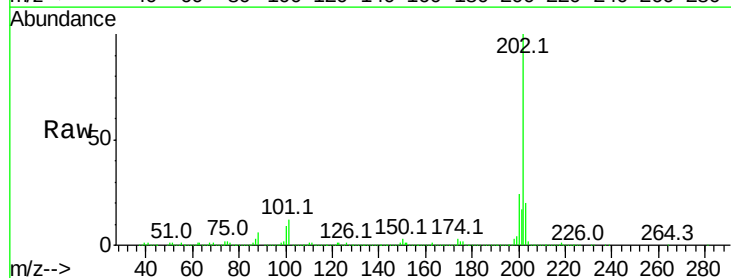
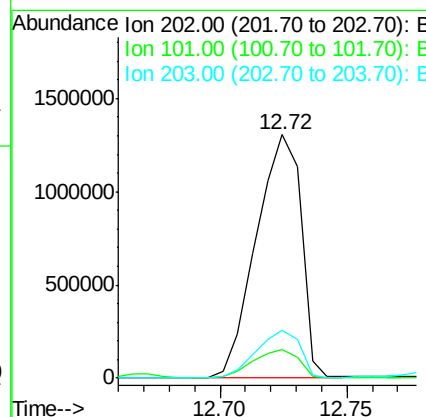
RT: 12.72 min Scan# 1766

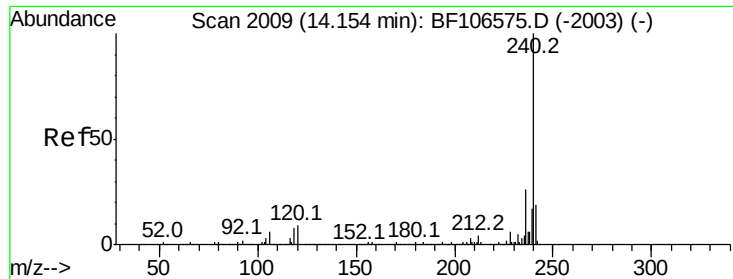
Delta R.T. 0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Tgt Ion:	202	Resp:	1600042
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	34.1
203	19.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

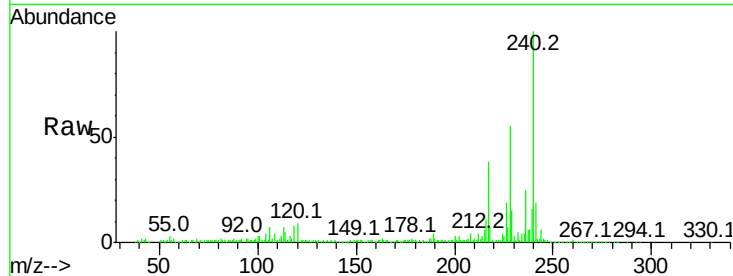
ClientSampled :

PL-01-061818-D

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.9	9.5	14.3#
236	25.5	20.7	31.1

Manual Integrations
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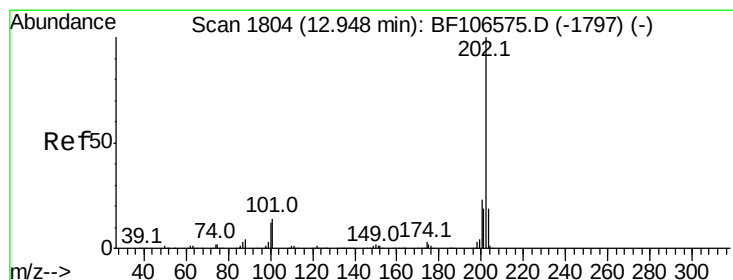
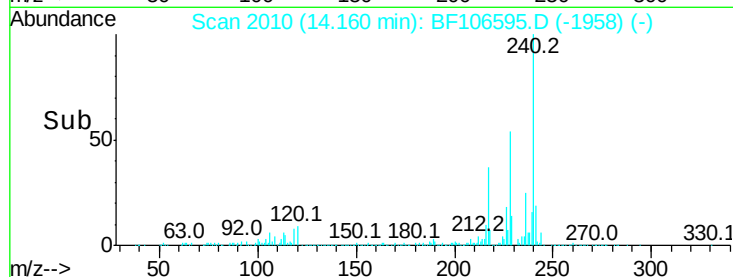
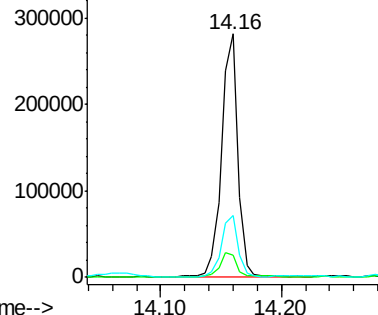
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 86.817 ng

RT: 12.96 min Scan# 1806

Delta R.T. 0.01 min

Lab File: BF106595.D

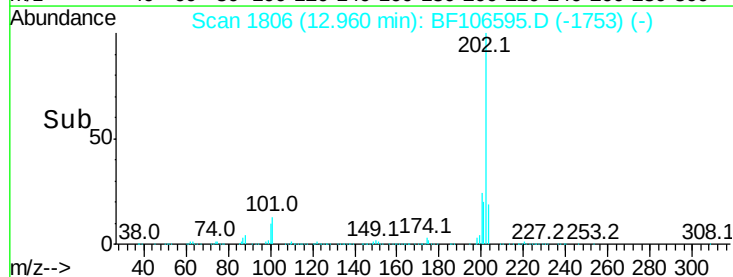
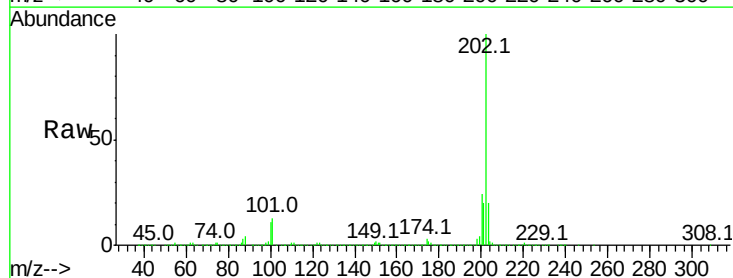
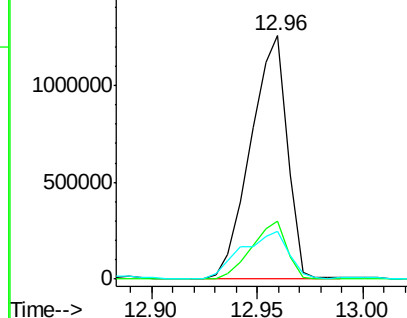
Acq: 19 Jun 2018 21:10

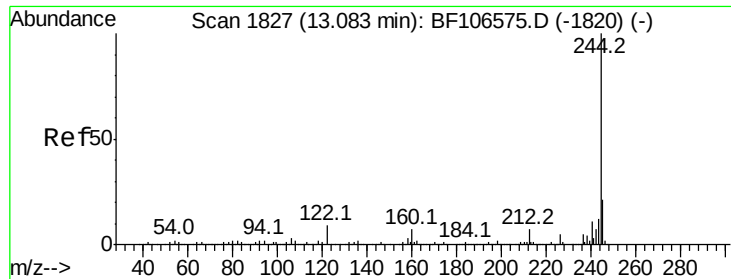
Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.8	17.4	26.2
203	19.7	14.3	21.5

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





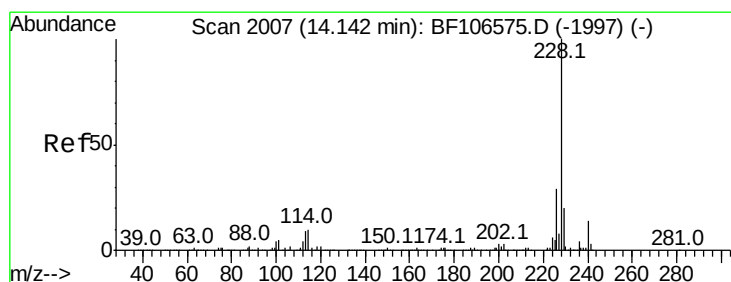
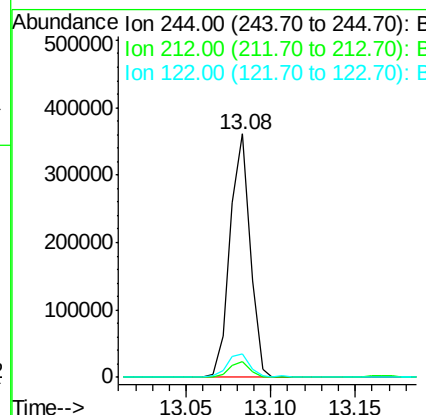
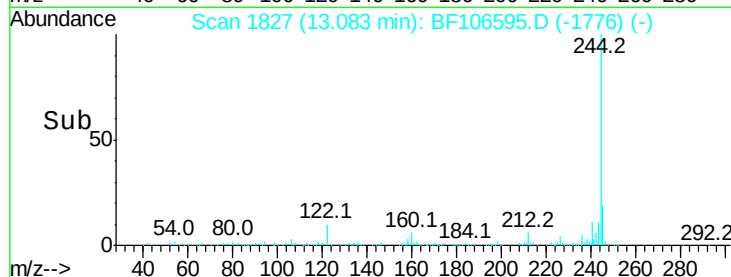
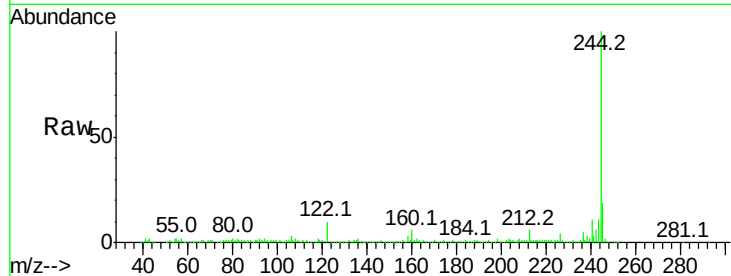
#78
 Terphenyl-d14
 Concen: 27.366 ng
 RT: 13.08 min Scan# 1827
 Delta R.T. 0.00 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-D

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	9.7	11.0	16.4

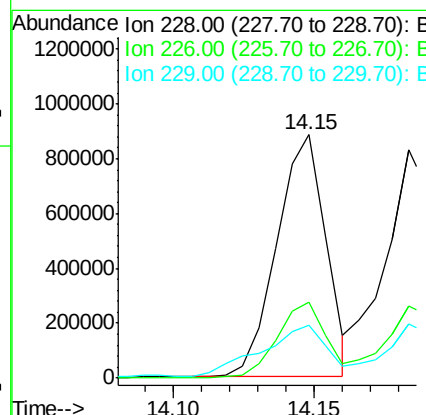
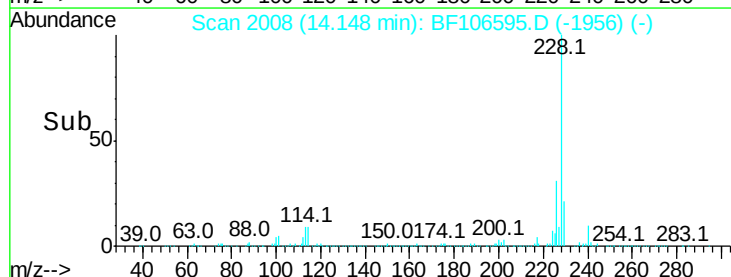
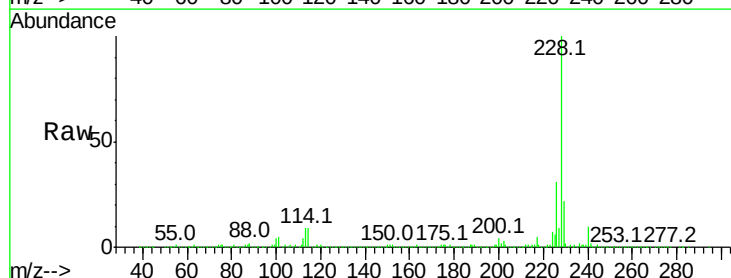
Manual Integrations
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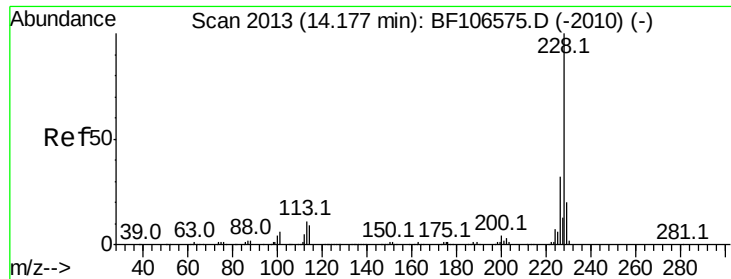
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#80
 Benzo(a)anthracene
 Concen: 65.739 ng
 RT: 14.15 min Scan# 2008
 Delta R.T. 0.01 min
 Lab File: BF106595.D
 Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	22.6	33.8
229	21.7	15.8	23.6





#82

Chrysene

Concen: 63.225 ng

RT: 14.18 min Scan# 2014

Delta R.T. 0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

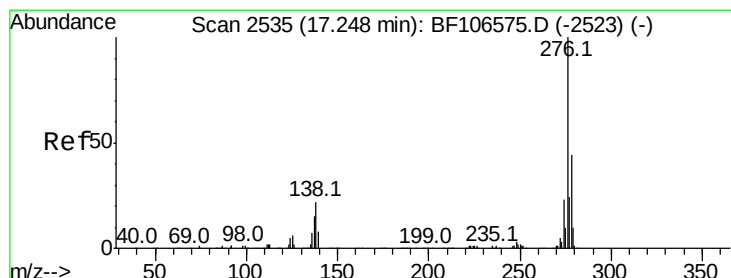
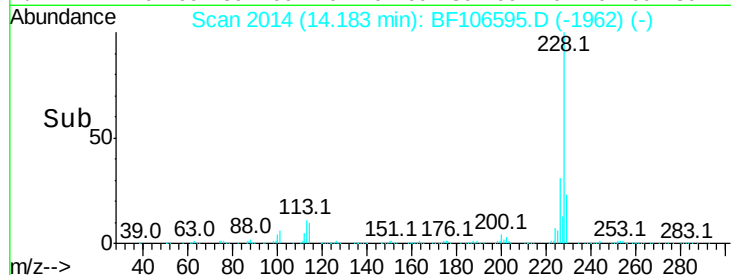
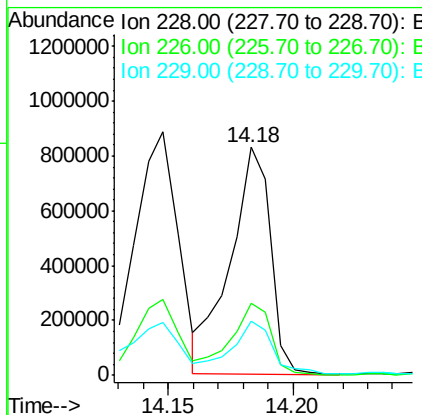
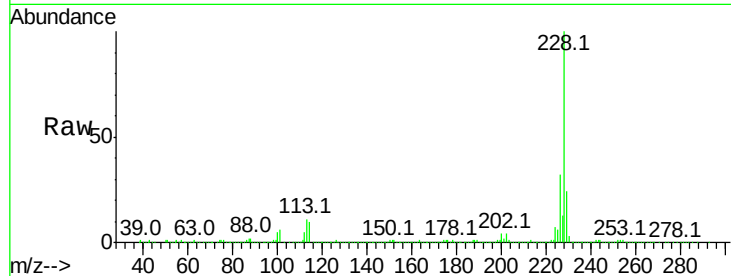
ClientSampleId :

PL-01-061818-D

Tot Ion:	228	Resp:	937355
Ion Ratio	Lower	Upper	
228	100		
226	31.9	25.0	37.6
229	23.6	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 32.961 ng

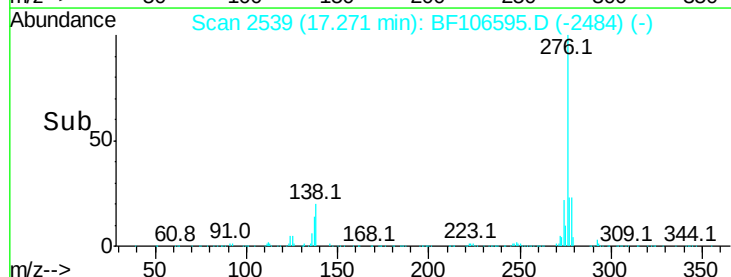
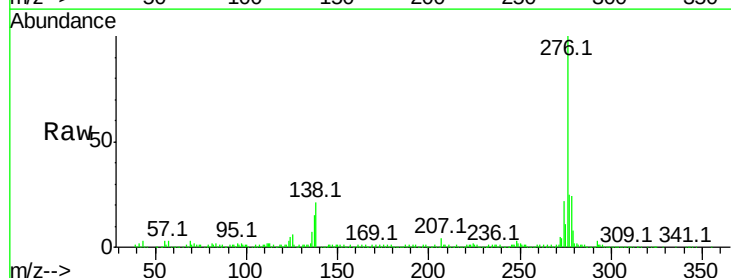
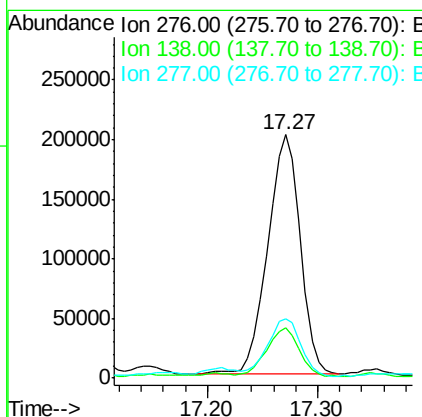
RT: 17.27 min Scan# 2539

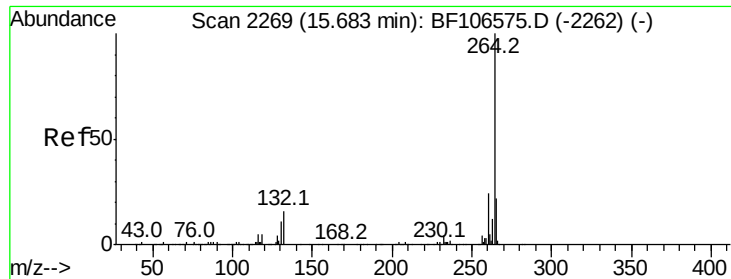
Delta R.T. 0.02 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Tgt Ion:	276	Resp:	414694
Ion Ratio	Lower	Upper	
276	100		
138	20.3	25.0	37.6#
277	24.4	20.1	30.1





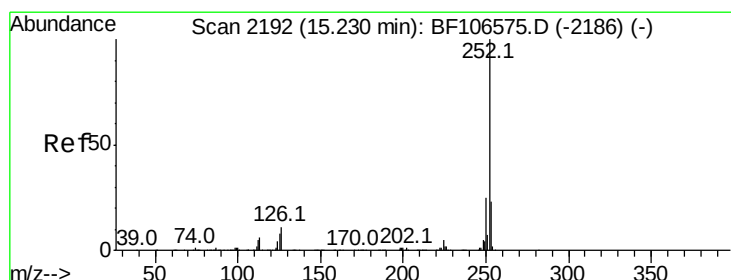
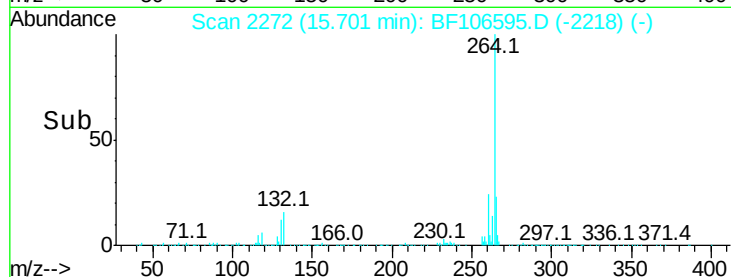
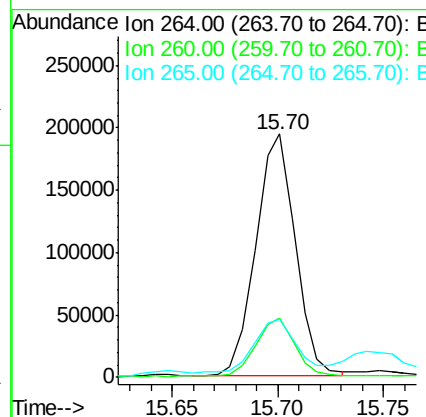
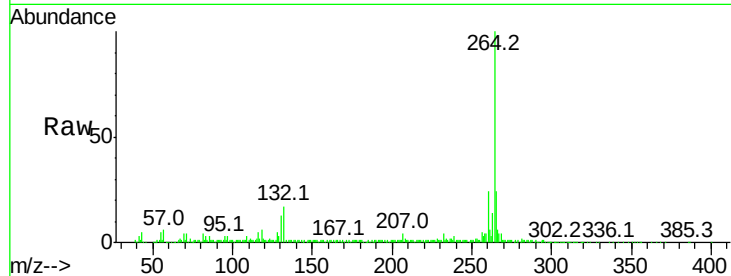
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2272
Delta R.T. 0.02 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-D

Tot Ion	Ratio	Resp	Lower	Upper
264	100	251354		
260	24.4	19.2	28.8	
265	23.9	17.5	26.3	

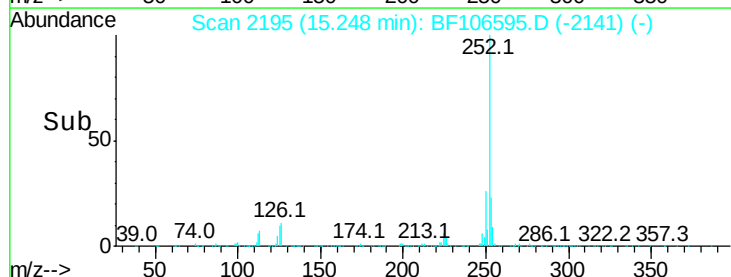
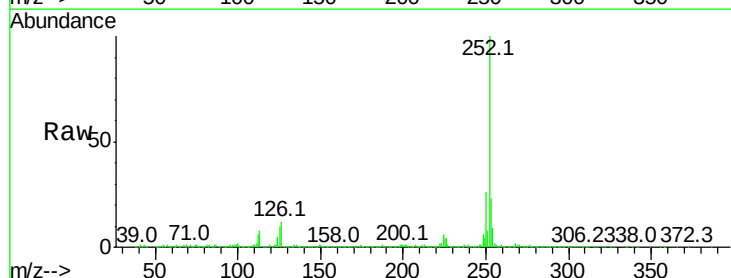
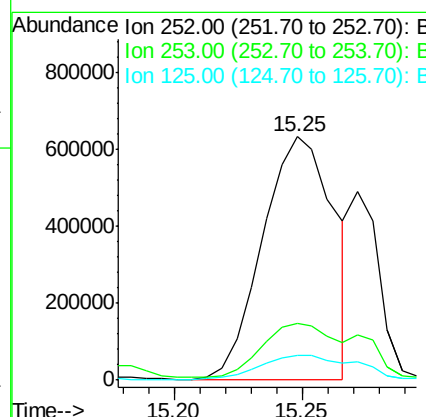
Manual Integrations
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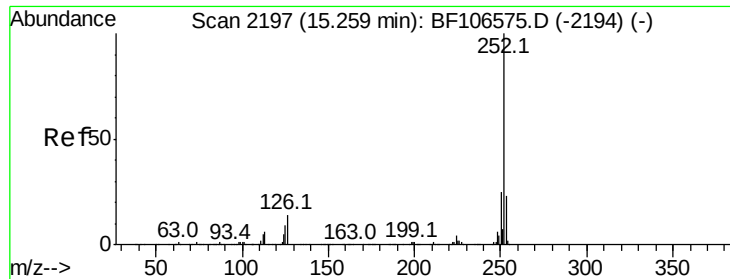
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#87
Benzo(b)fluoranthene
Concen: 78.305 ng m
RT: 15.25 min Scan# 2195
Delta R.T. 0.02 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1222648		
253	23.3	17.0	25.6	
125	10.2	9.0	13.6	





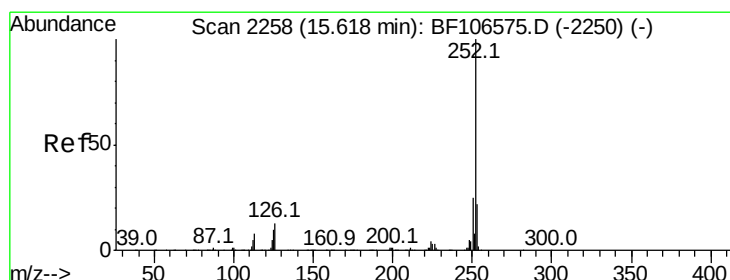
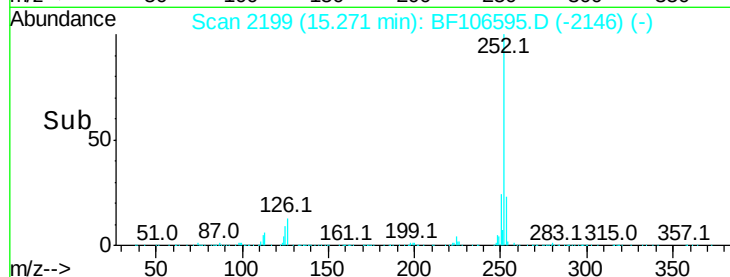
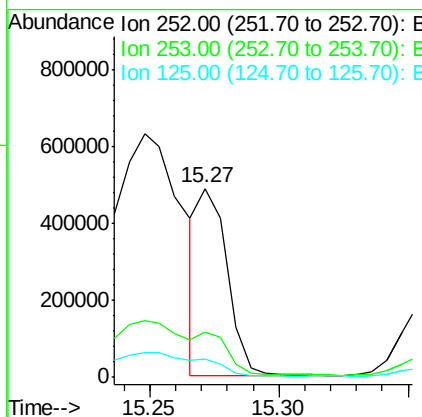
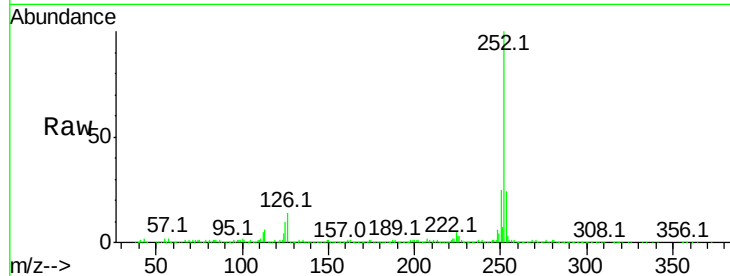
#88
Benzo(k)fluoranthene
Concen: 25.417 ng
RT: 15.27 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	9.9	10.2	15.2

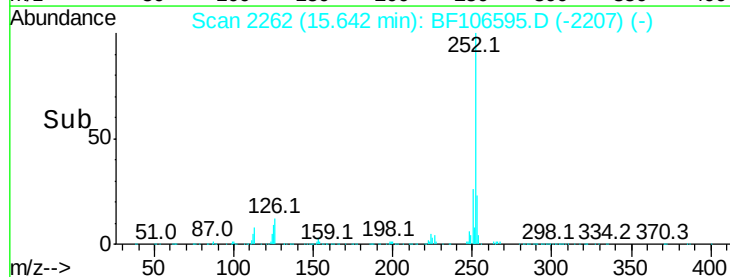
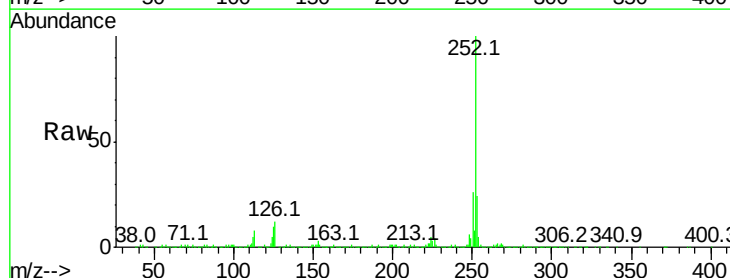
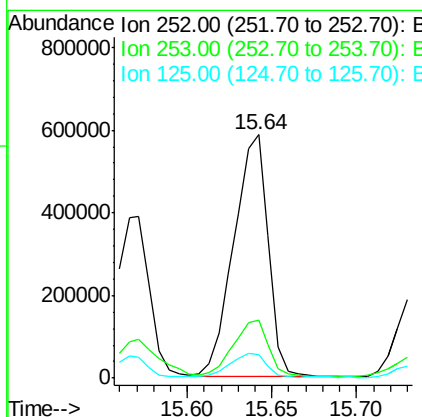
Manual Integrations
APPROVED

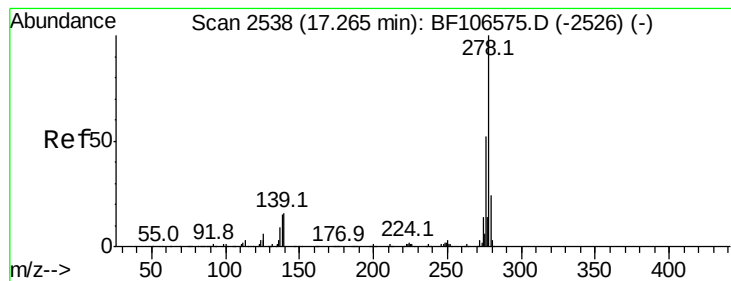
Sohil
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#89
Benzo(a)pyrene
Concen: 60.261 ng
RT: 15.64 min Scan# 2262
Delta R.T. 0.02 min
Lab File: BF106595.D
Acq: 19 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	9.8	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 9.134 ng

RT: 17.28 min Scan# 2540

Delta R.T. 0.01 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Instrument :

BNA_F

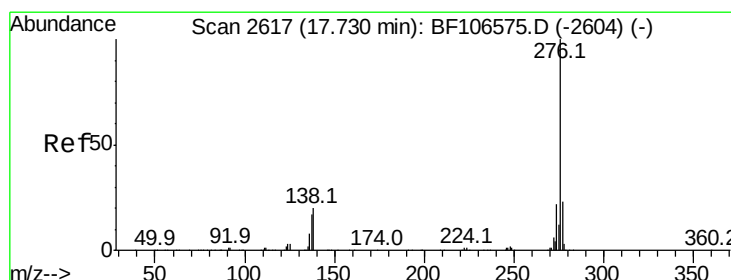
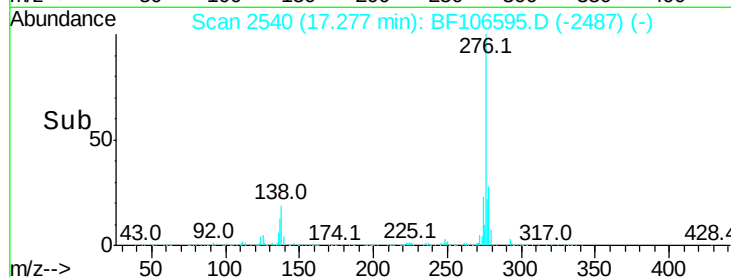
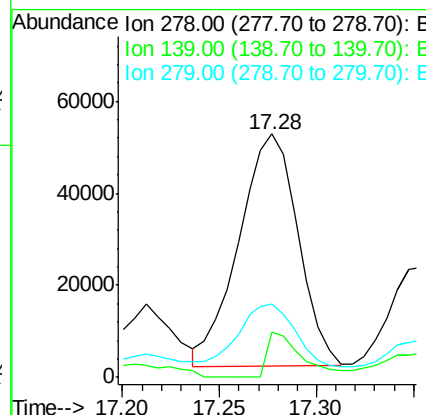
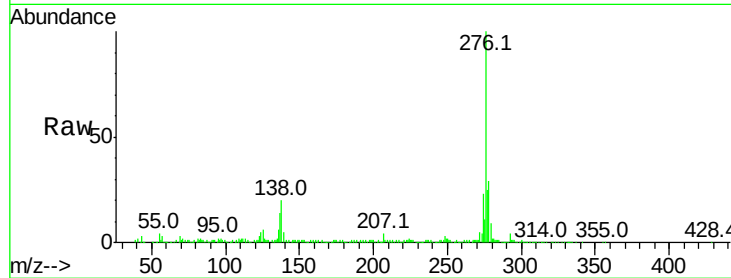
ClientSampleId :

PL-01-061818-D

Tot Ion:	278	Resp:	107445
Ion Ratio	Lower	Upper	
278	100		
139	18.7	15.9	23.9
279	30.3	19.0	28.4#

Manual Integrations
APPROVED

Sohil
6/20/2018 4:58:35 PM



#91

Benzo(g,h,i)perylene

Concen: 33.559 ng

RT: 17.75 min Scan# 2621

Delta R.T. 0.02 min

Lab File: BF106595.D

Acq: 19 Jun 2018 21:10

Tgt Ion:	276	Resp:	385862
Ion Ratio	Lower	Upper	
276	100		
277	23.3	17.9	26.9
138	19.4	21.8	32.8#

