

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
 Data File : BF096226.D
 Acq On : 27 Jun 2017 19:53
 Operator : SJ/MA
 Sample : I3920-02 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OB-2

Manual Integrations
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Quant Time: Jun 28 16:11:21 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF062717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 15:41:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	175603	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	730876	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	274283	20.00	ng	0.00
63) Phenanthrene-d10	11.29	188	373543	20.00	ng	0.00
75) Chrysene-d12	13.92	240	310397	20.00	ng	0.00
86) Perylene-d12	15.34	264	285754	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	316509	25.97	ng	0.00
7) Phenol-d6	6.40	99	379475	25.71	ng	0.00
23) Nitrobenzene-d5	7.33	82	191440	18.13	ng	-0.03
41) 2,4,6-Tribromophenol	10.59	330	45110	20.90	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	315059	21.04	ng	-0.02
78) Terphenyl-d14	12.87	244	158458	12.74	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.08	128	105303	2.989	ng	99
49) Dimethylphthalate	9.53	163	56922	2.900	ng	99
51) Acenaphthene	9.84	154	64592	3.789	ng	99
54) Dibenzofuran	10.01	168	75876	3.409	ng	99
70) Phenanthrene	11.32	178	807272	42.700	ng	98
71) Anthracene	11.36	178	241819	11.584	ng	97
72) Carbazole	11.52	167	98486	4.274	ng	96
74) Fluoranthene	12.50	202	862743	41.578	ng	96
77) Pyrene	12.73	202	768465	30.125	ng	99
80) Benzo(a)anthracene	13.91	228	423237	22.368	ng	99
82) Chrysene	13.95	228	349487	17.859	ng	97
85) Indeno(1,2,3-cd)pyrene	16.73	276	153189	9.430	ng	96
87) Benzo(b)fluoranthene	14.94	252	411471m	21.920	ng	
88) Benzo(k)fluoranthene	14.96	252	163558m	9.544	ng	
89) Benzo(a)pyrene	15.28	252	306174	18.466	ng	# 93
90) Dibenzo(a,h)anthracene	16.74	278	38343	2.953	ng	# 91
91) Benzo(g,h,i)perylene	17.14	276	138585	10.270	ng	95

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

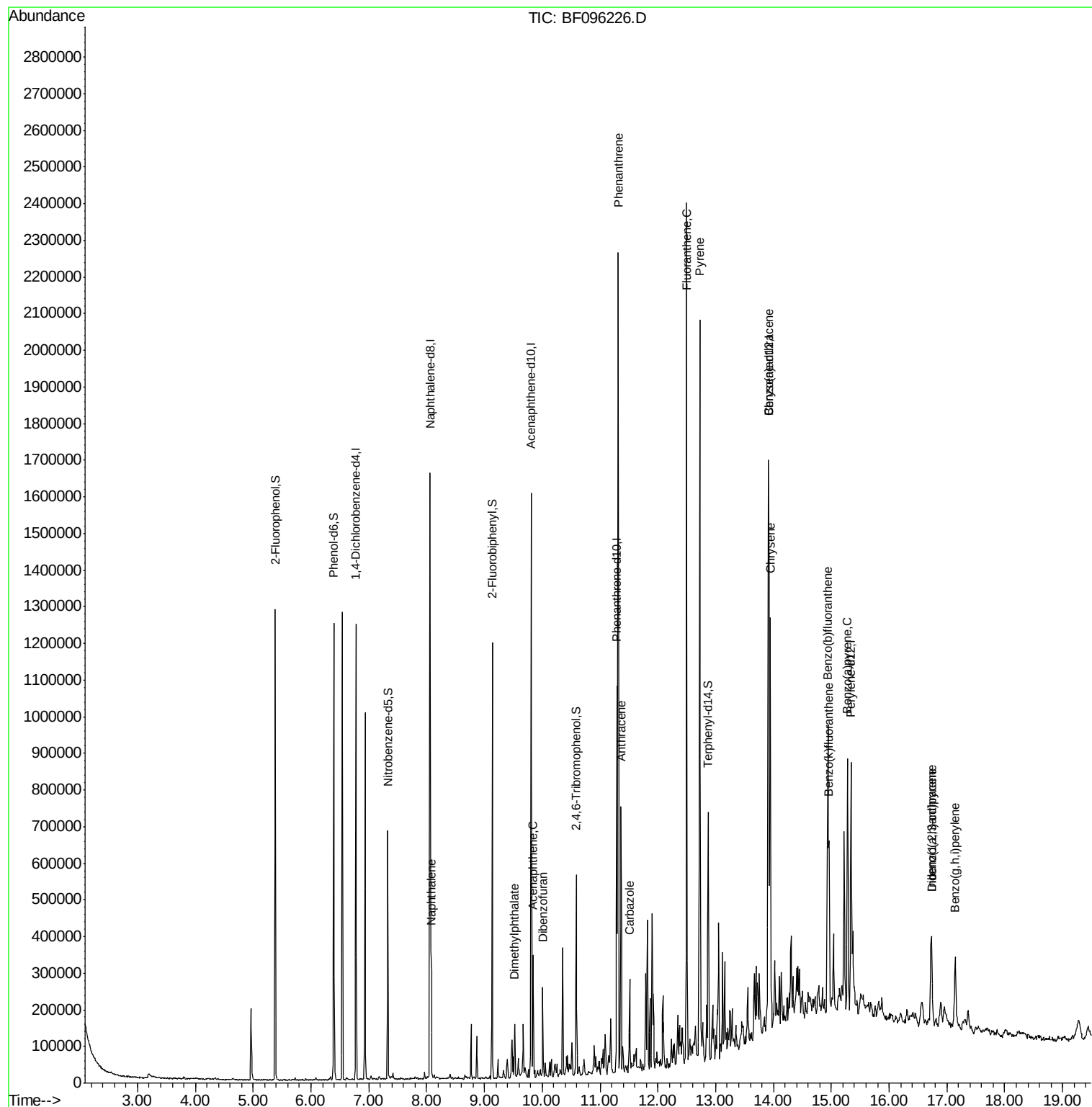
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062717\
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ALS Vial : 10 Sample Multiplier: 1

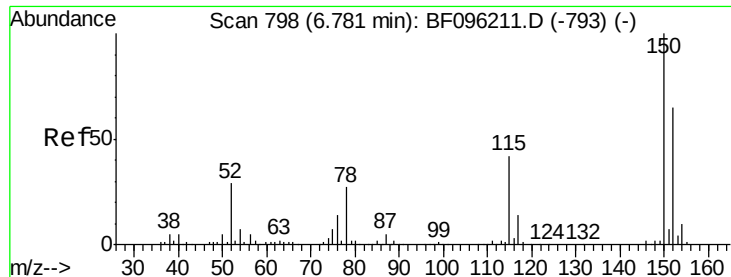
Instrument :
BNA_F
ClientSampled :
OB-2

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#1

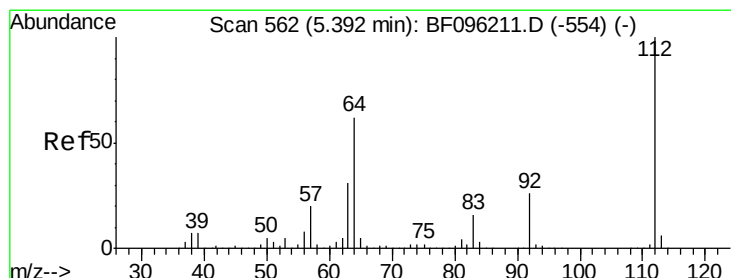
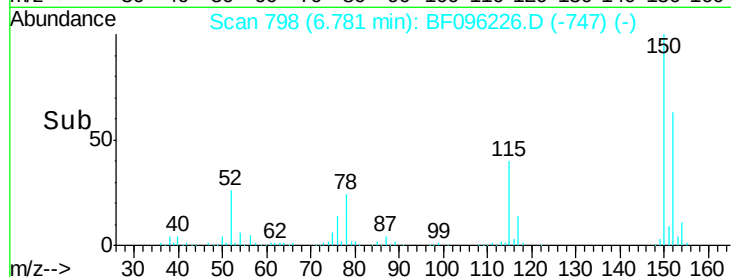
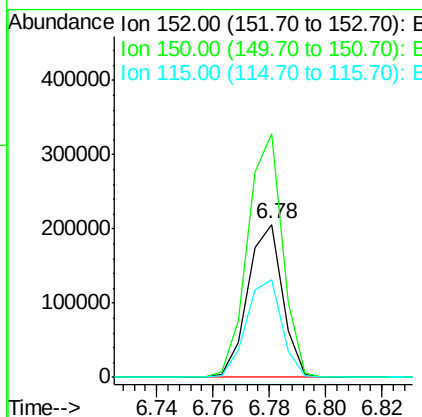
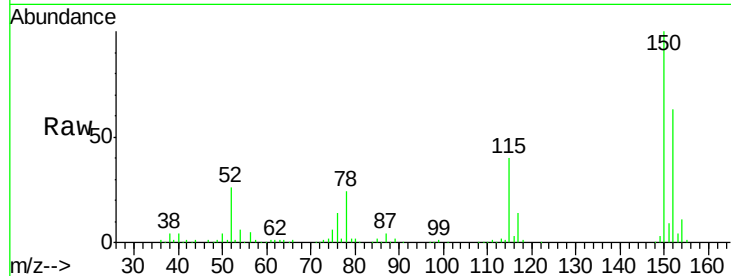
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. 0.00 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampled :
OB-2

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.2	126.2	189.2
115	64.2	52.2	78.2

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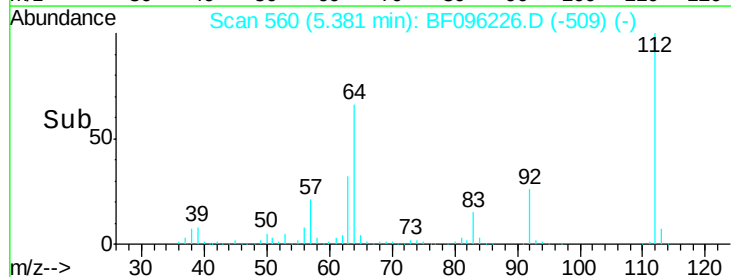
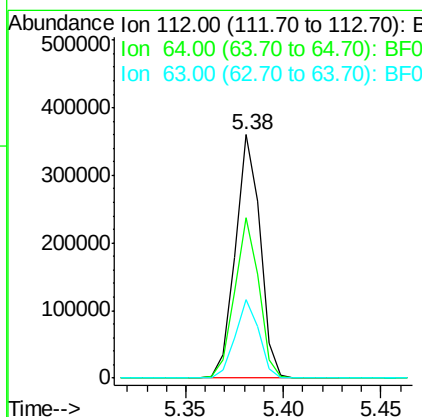
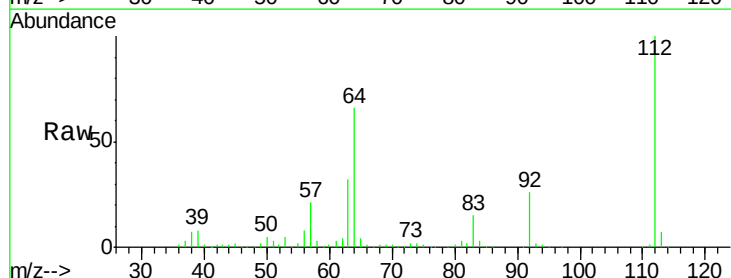
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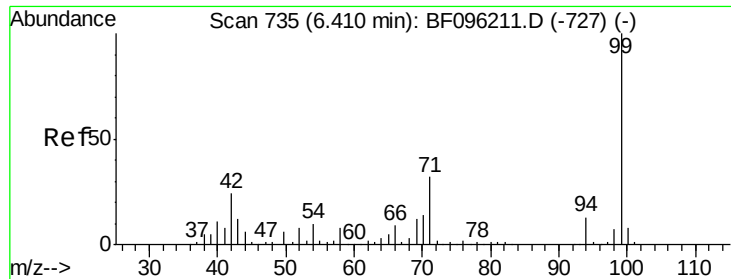


#5

2-Fluorophenol
Concen: 25.967 ng
RT: 5.38 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	46.0	69.0
63	32.3	23.4	35.0





#7

Phenol-d6

Concen: 25.711 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.01 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Instrument :

BNA_F

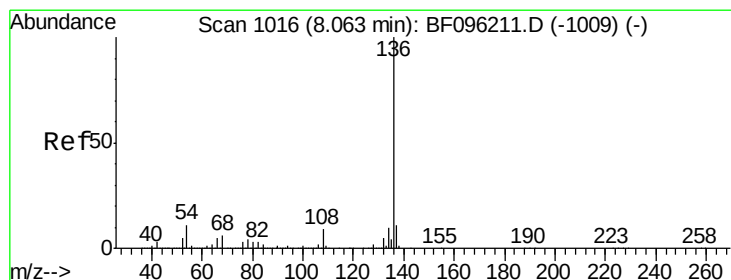
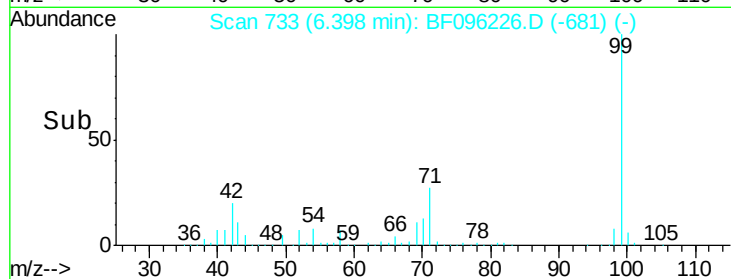
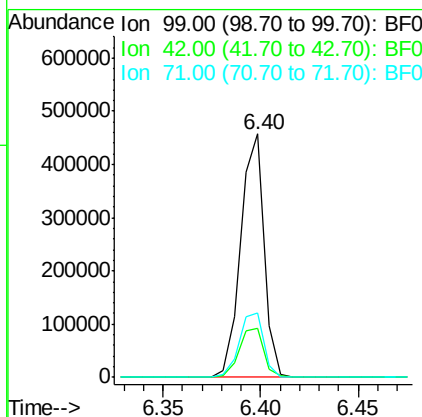
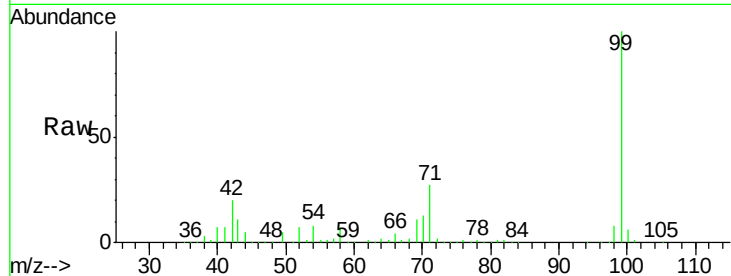
ClientSampleId :

OB-2

Tgt Ion:	99	Resp:	379475
Ion Ratio	Lower	Upper	
99	100		
42	20.1	13.5	20.3
71	26.6	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

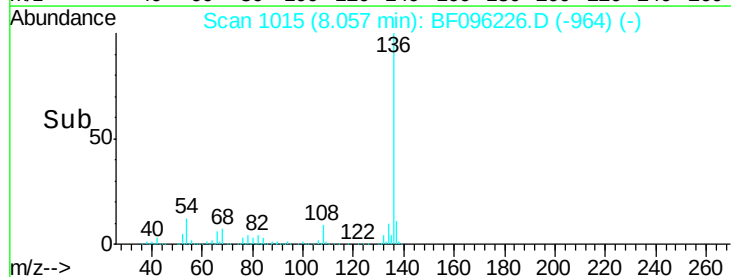
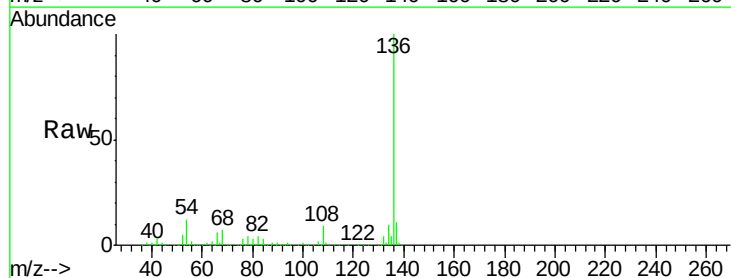
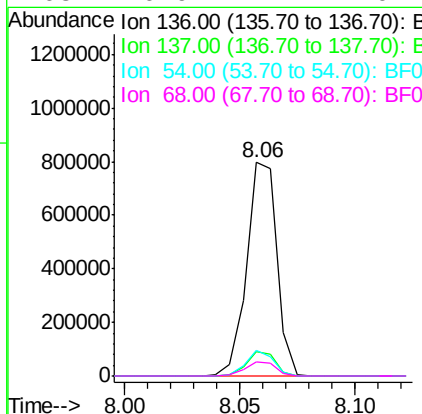
RT: 8.06 min Scan# 1015

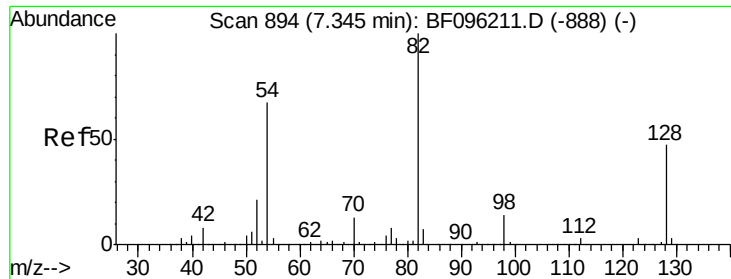
Delta R.T. 0.00 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Tgt Ion:	136	Resp:	730876
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	11.9	4.9	7.3#
68	6.9	4.1	6.1#





#23

Nitrobenzene-d5

Concen: 18.132 ng

RT: 7.33 min Scan# 891

Delta R.T. -0.03 min

Lab File: BF096226.D

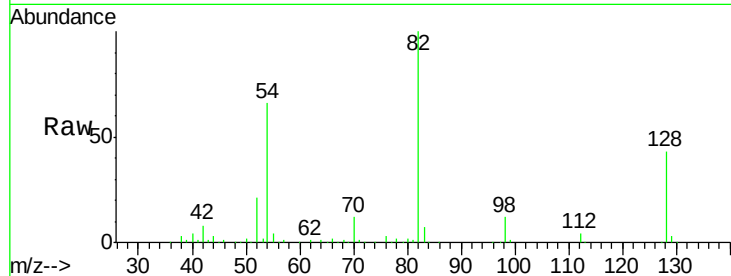
Acq: 27 Jun 2017 19:53

Instrument :

BNA_F

ClientSampled :

OB-2



Tgt Ion: 82 Resp: 191440

Ion Ratio Lower Upper

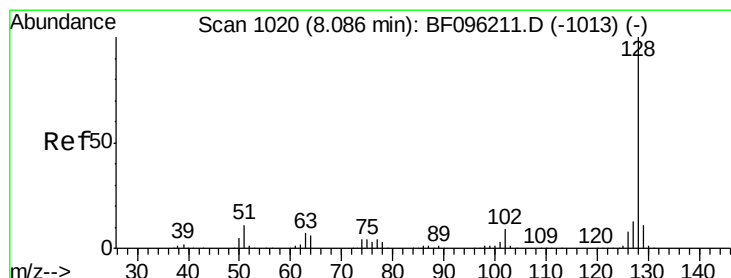
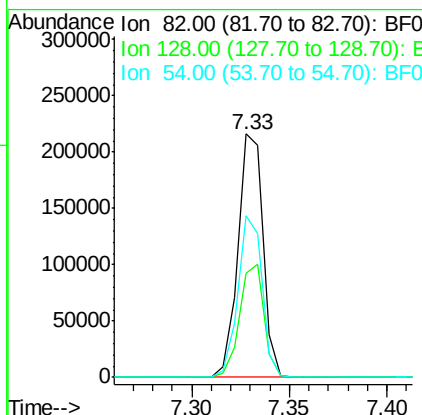
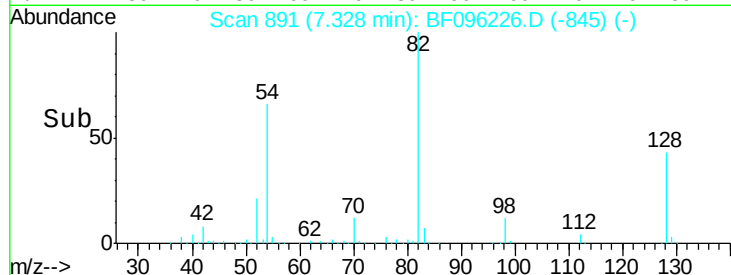
82 100

128 42.9 34.0 51.0

54 66.5 42.2 63.2#

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#31

Naphthalene

Concen: 2.989 ng

RT: 8.08 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

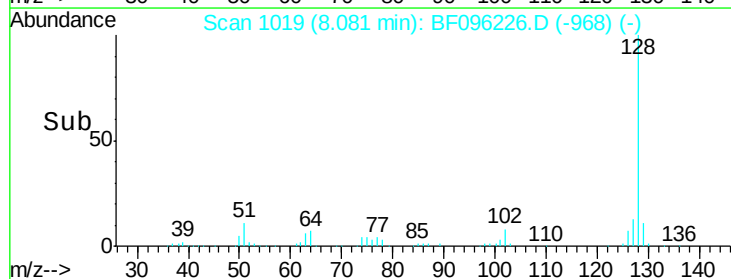
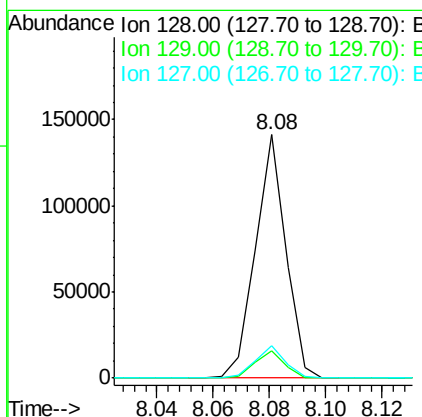
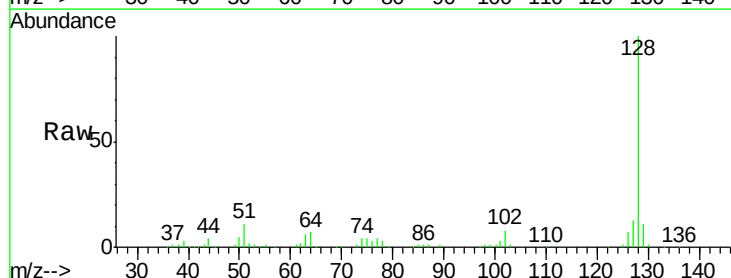
Tgt Ion: 128 Resp: 105303

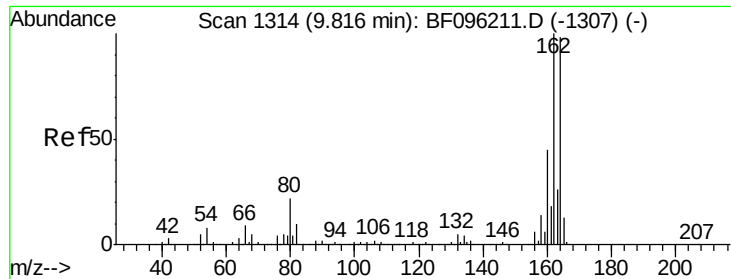
Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

127 13.1 10.8 16.2





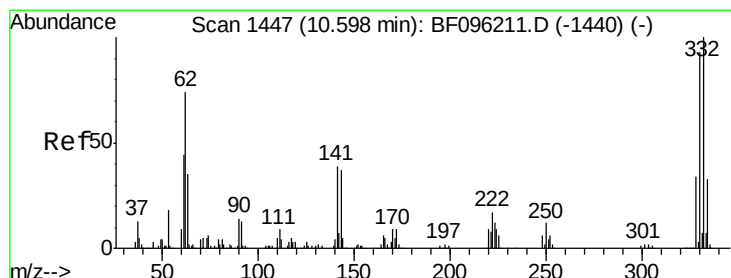
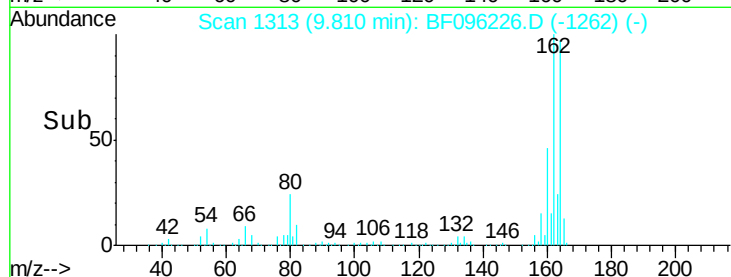
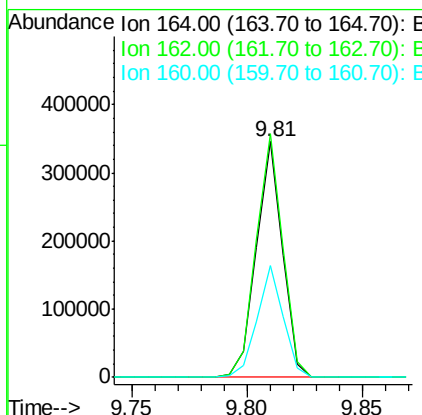
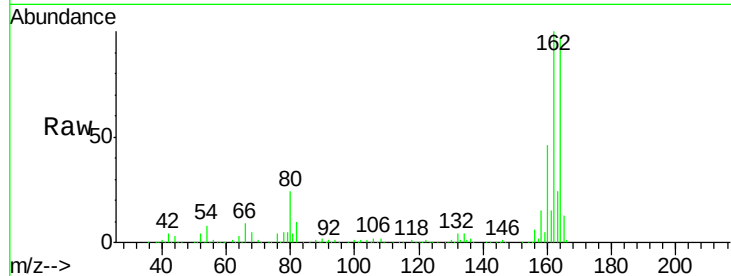
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. 0.00 min
 Lab File: BF096226.D
 Acq: 27 Jun 2017 19:53

Instrument :
 BNA_F
 ClientSampleId :
 OB-2

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	274283		
162	103.4	82.6	123.8	
160	47.6	36.2	54.2	

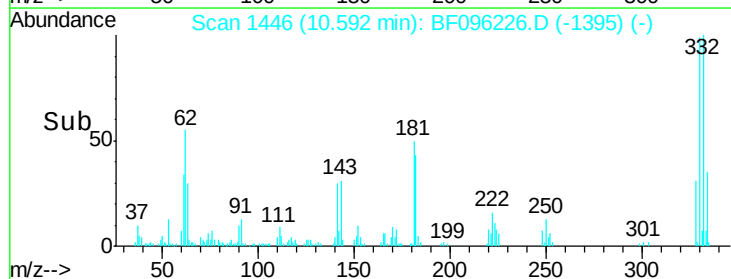
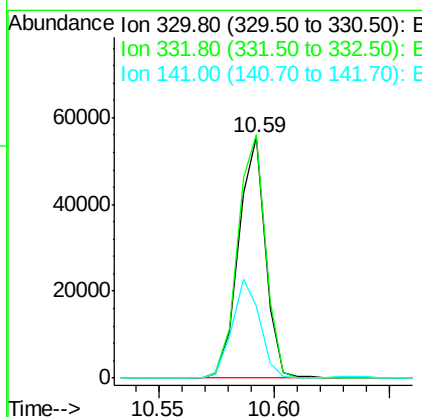
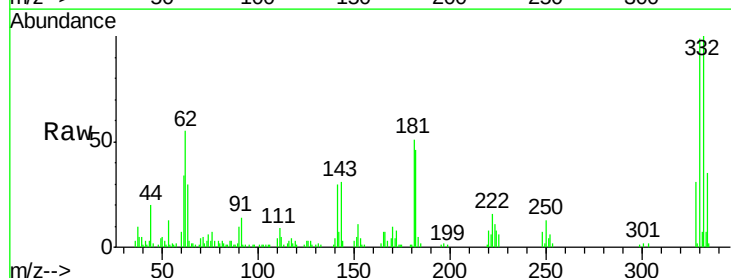
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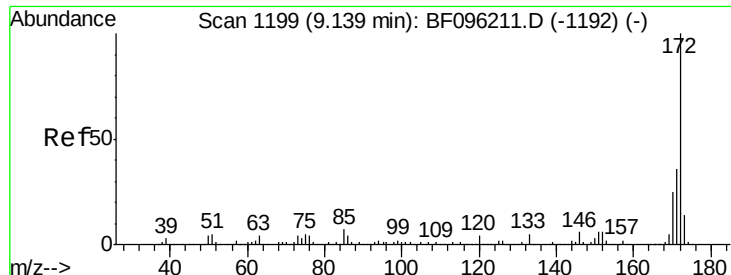
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#41
 2,4,6-Tribromophenol
 Concen: 20.898 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. 0.00 min
 Lab File: BF096226.D
 Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	45110		
332	104.6	76.6	115.0	
141	41.9	31.4	47.2	





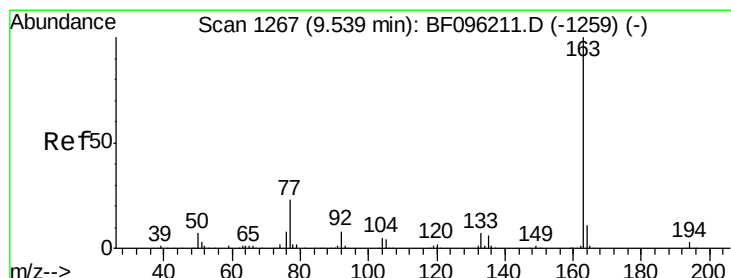
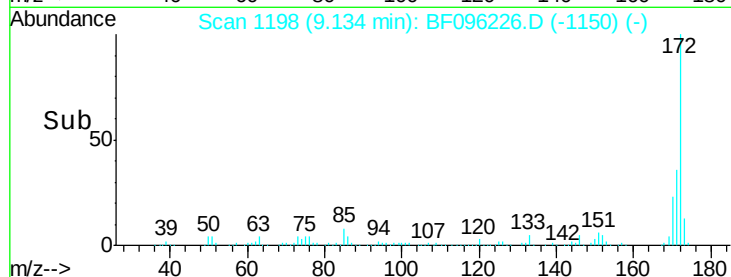
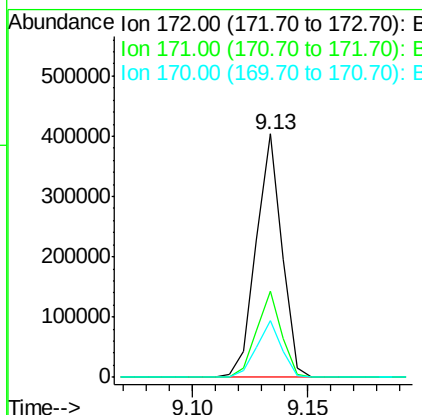
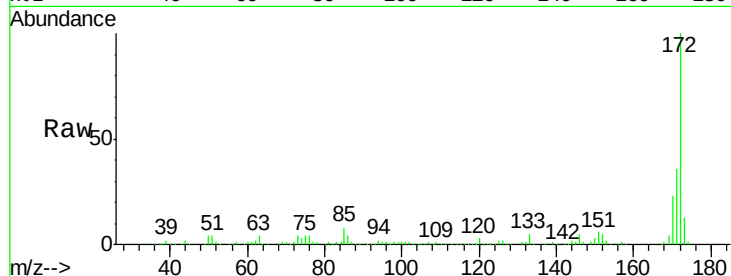
#44
2-Fluorobiphenyl
Concen: 21.036 ng
RT: 9.13 min Scan# 1198
Delta R.T. -0.02 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampled :
OB-2

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	315059		
171	35.6		29.6	44.4
170	23.3		19.8	29.8

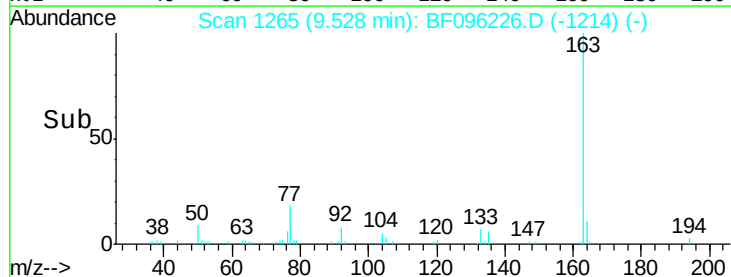
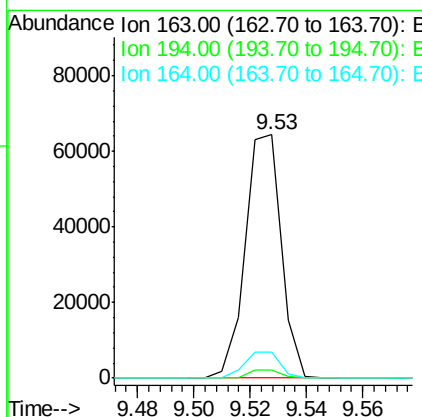
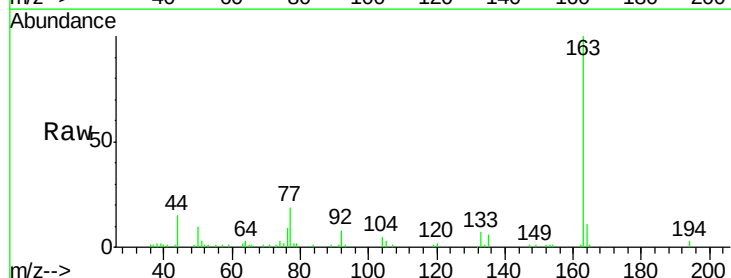
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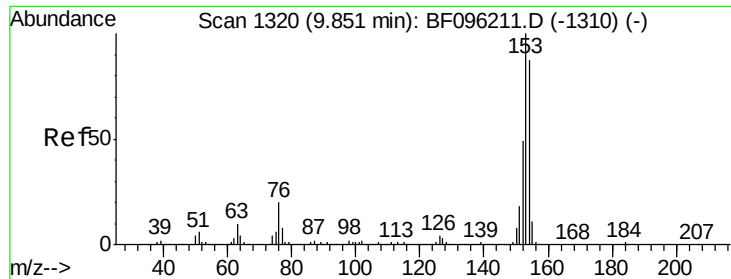
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#49
Dimethylphthalate
Concen: 2.900 ng
RT: 9.53 min Scan# 1265
Delta R.T. 0.00 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	56922		
194	3.4		2.6	4.0
164	10.8		8.4	12.6





#51

Acenaphthene

Concen: 3.789 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF096226.D

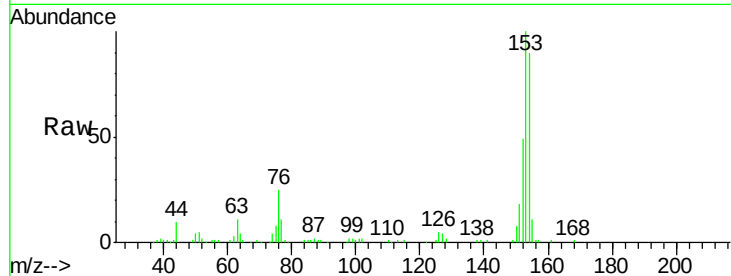
Acq: 27 Jun 2017 19:53

Instrument :

BNA_F

ClientSampled :

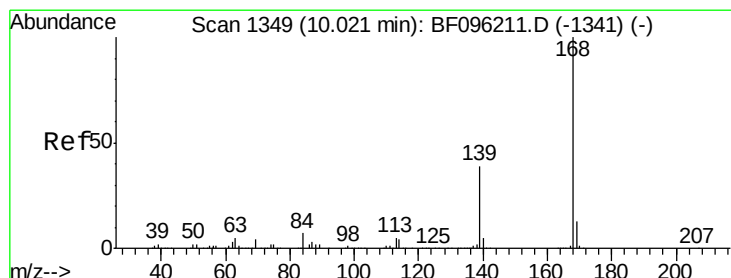
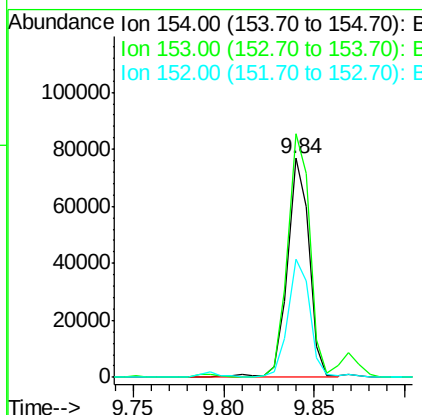
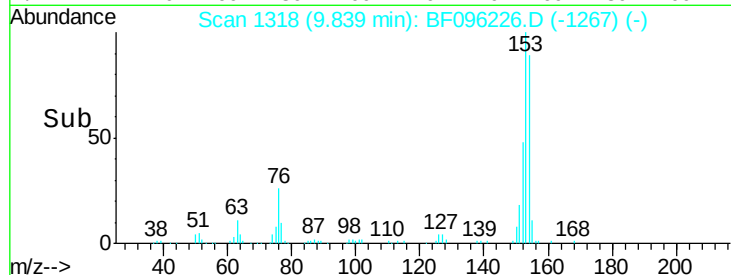
OB-2



Tgt Ion:	154	Resp:	64592
Ion Ratio	Lower	Upper	
154	100		
153	111.3	90.5	135.7
152	54.1	43.6	65.4

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#54

Dibenzofuran

Concen: 3.409 ng

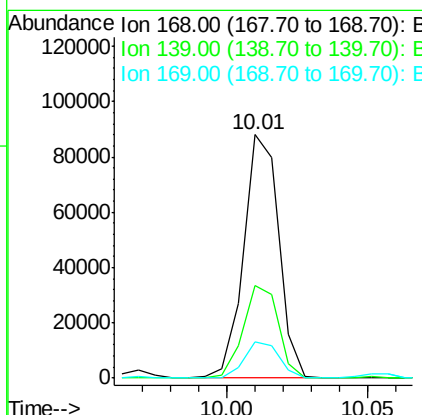
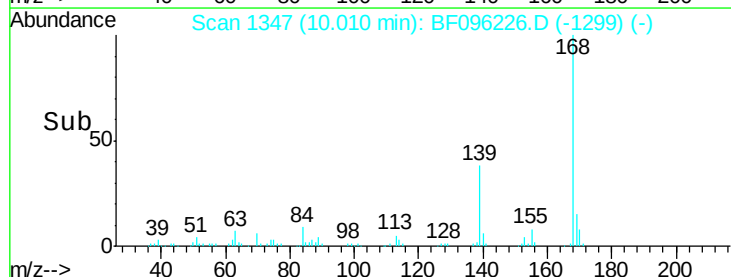
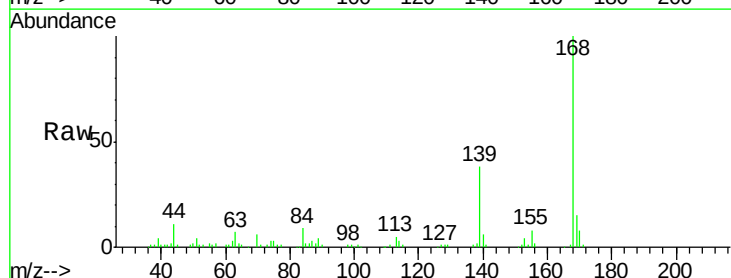
RT: 10.01 min Scan# 1347

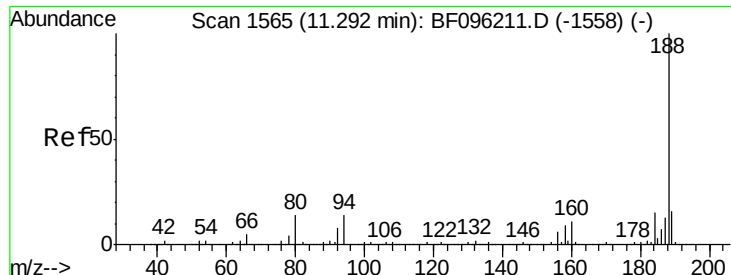
Delta R.T. -0.02 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Tgt Ion:	168	Resp:	75876
Ion Ratio	Lower	Upper	
168	100		
139	37.8	30.6	45.8
169	14.7	10.8	16.2





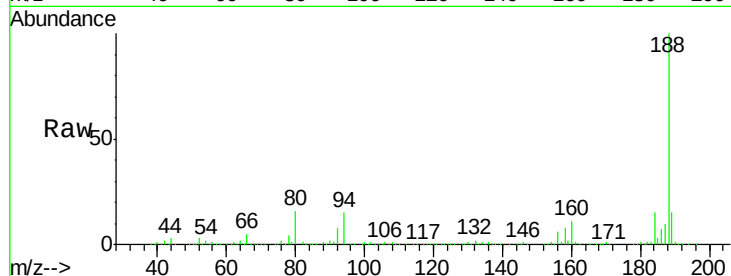
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.29 min Scan# 1564
Delta R.T. 0.00 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampled :
OB-2

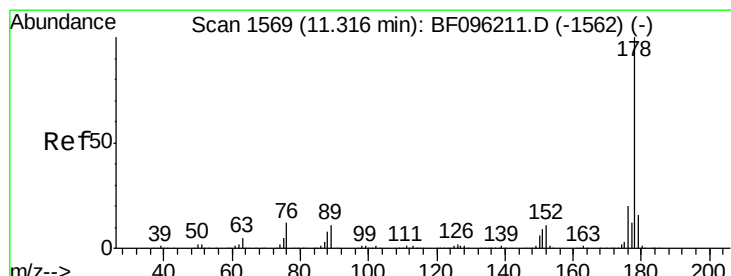
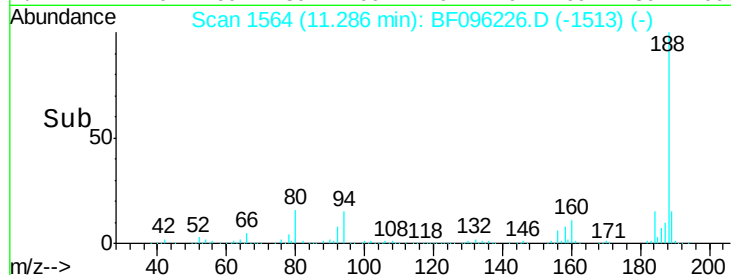
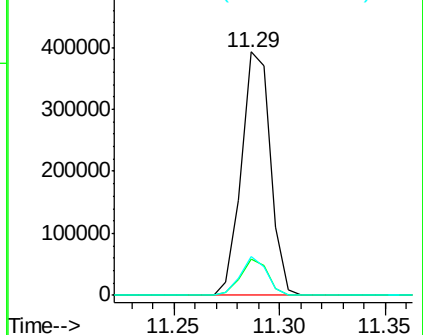
Tgt Ion	Ratio	Resp	Lower	Upper
188	100	373543		
94	14.9	9.4	14.2#	
80	16.0	10.2	15.2#	

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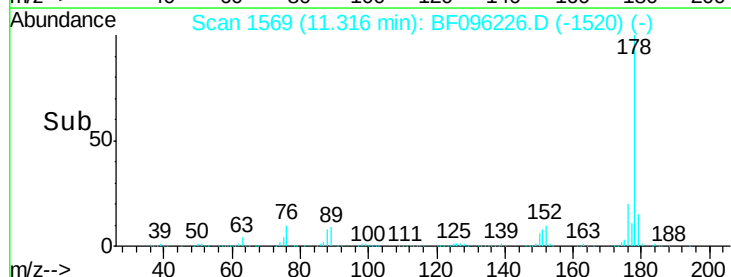
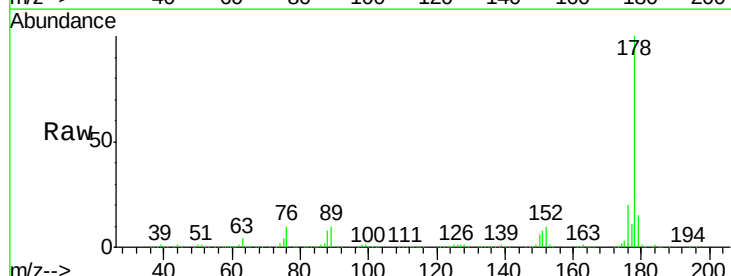
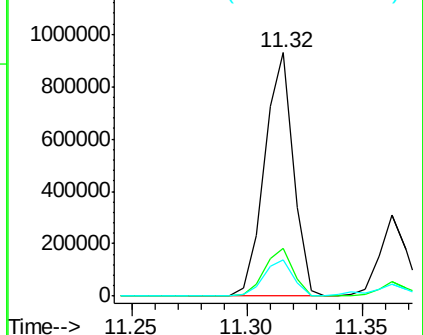
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

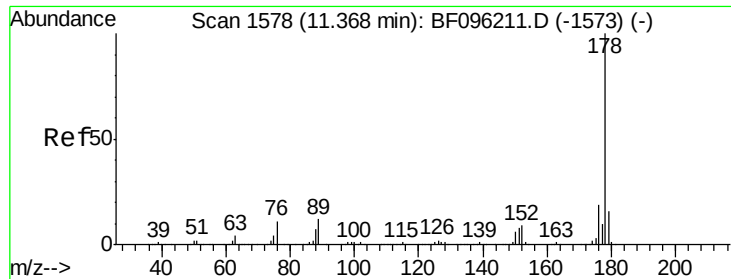


#70
Phenanthrene
Concen: 42.700 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	807272		
176	19.7	16.2	24.4	
179	14.7	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





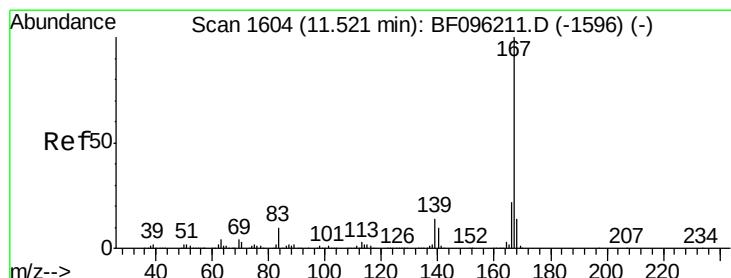
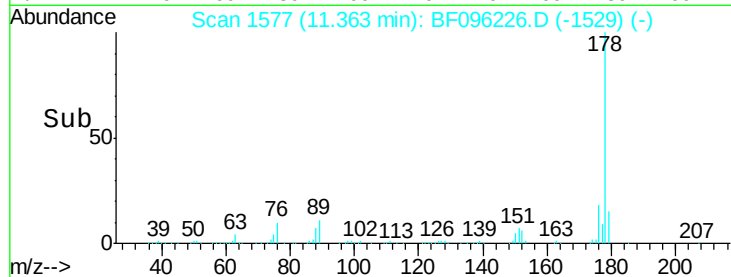
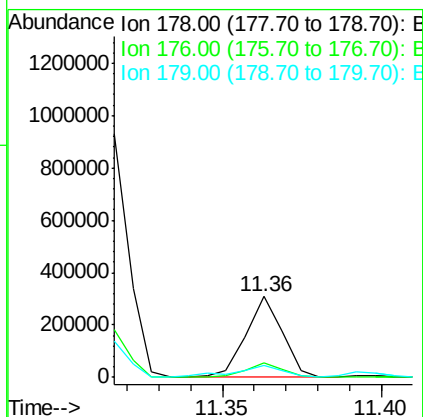
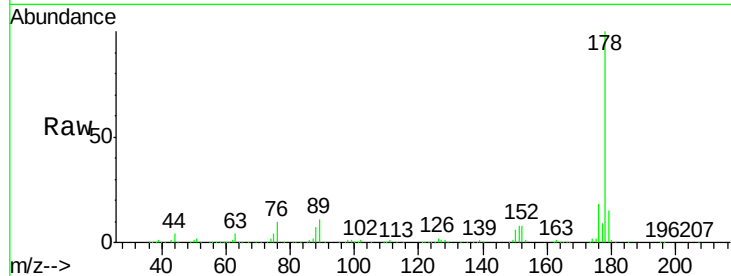
#71
 Anthracene
 Concen: 11.584 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: BF096226.D
 Acq: 27 Jun 2017 19:53

Instrument :
 BNA_F
 ClientSampleId :
 OB-2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.8	23.8
179	15.4	12.7	19.1

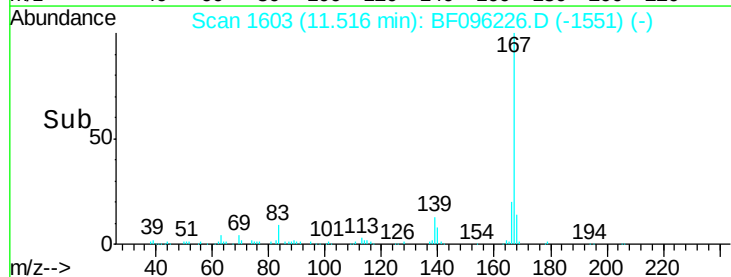
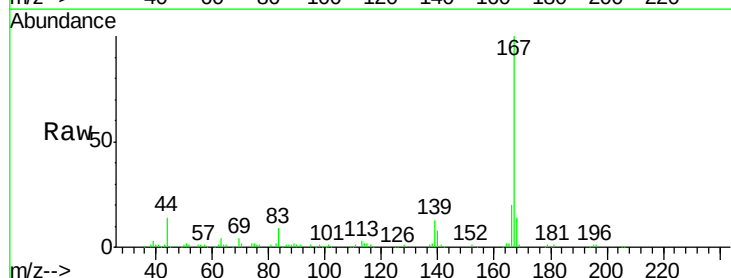
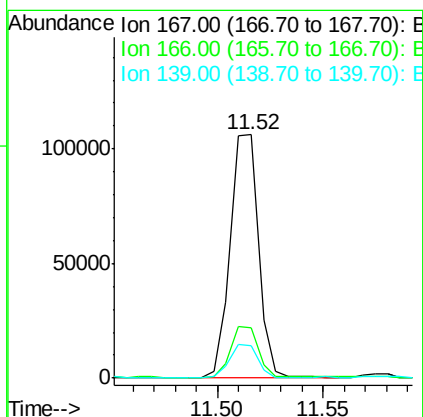
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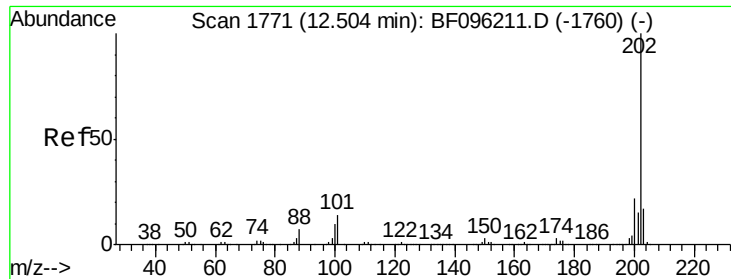
mohammad
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#72
 Carbazole
 Concen: 4.274 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BF096226.D
 Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.4	18.1	27.1
139	13.3	11.7	17.5





#74

Fluoranthene

Concen: 41.578 ng

RT: 12.50 min Scan# 1770

Delta R.T. 0.01 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Instrument :

BNA_F

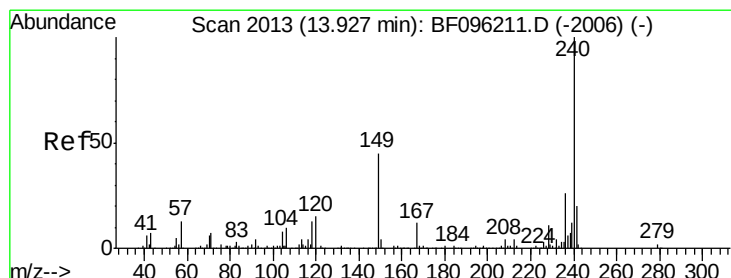
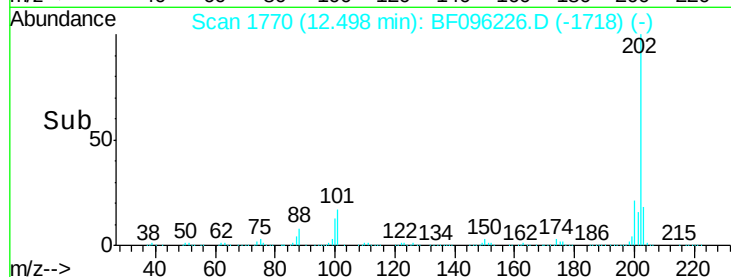
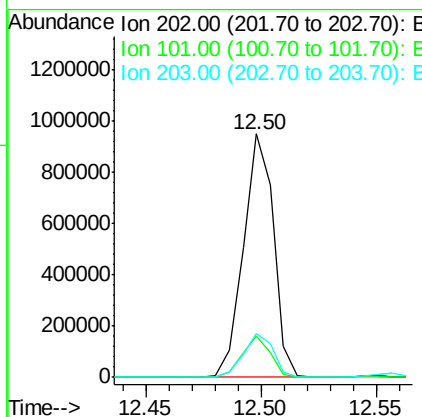
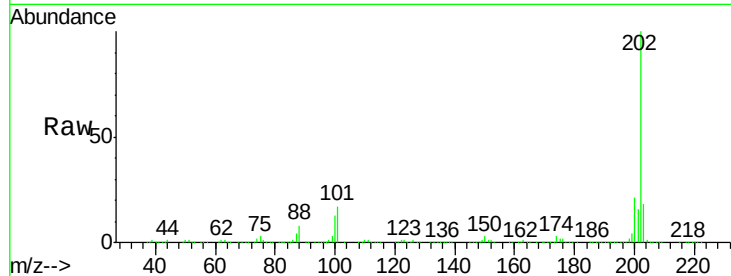
ClientSampleId :

OB-2

Tgt	Ion	202	Resp:	862743
	Ion	Ratio	Lower	Upper
	202	100		
	101	17.1	0.0	33.2
	203	18.3	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

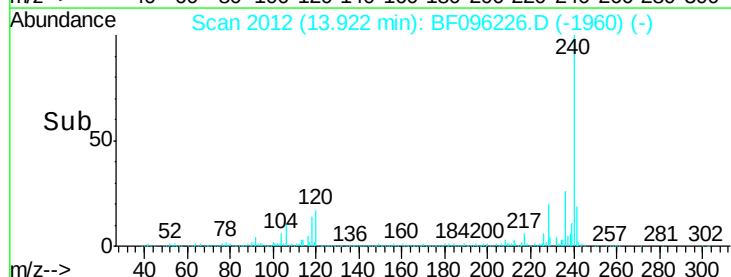
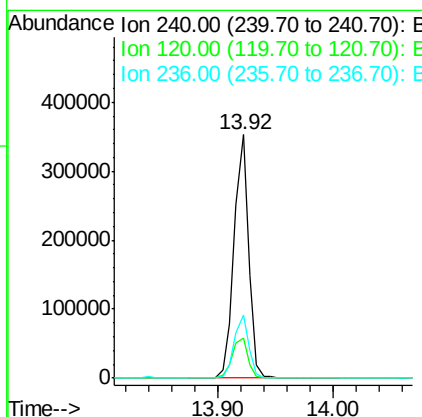
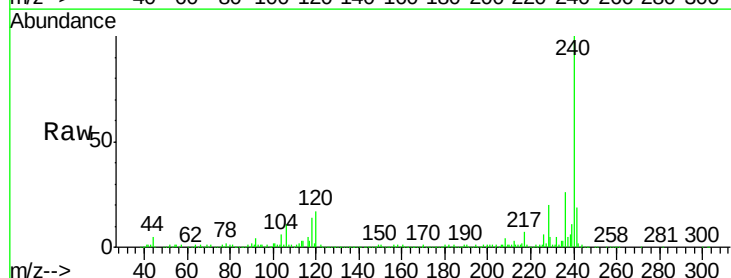
RT: 13.92 min Scan# 2012

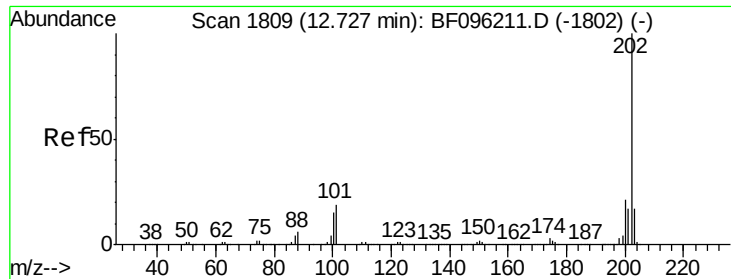
Delta R.T. 0.01 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Tgt	Ion	240	Resp:	310397
	Ion	Ratio	Lower	Upper
	240	100		
	120	16.7	5.8	8.8#
	236	25.7	20.5	30.7





#77

Pyrene

Concen: 30.125 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Instrument :

BNA_F

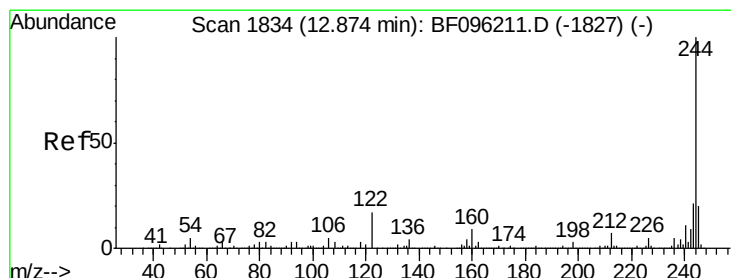
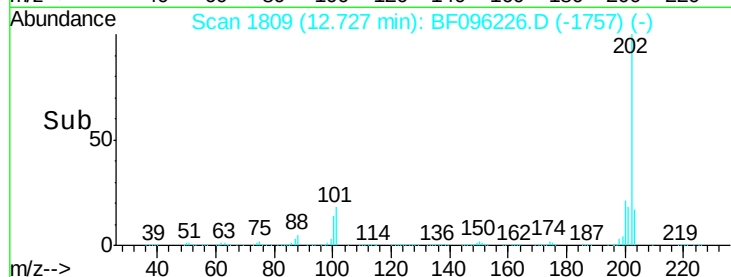
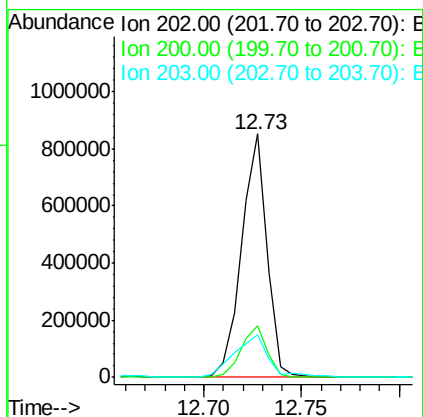
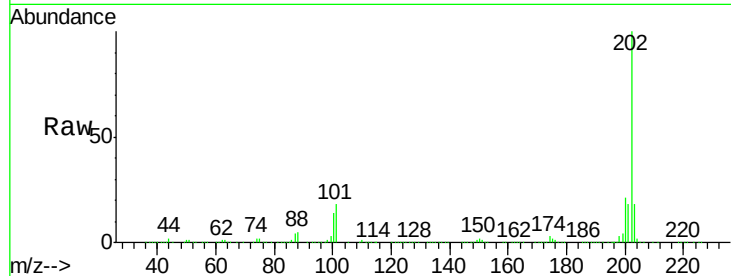
ClientSampleId :

OB-2

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.6	26.4
203	17.5	14.4	21.6

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#78

Terphenyl-d14

Concen: 12.738 ng

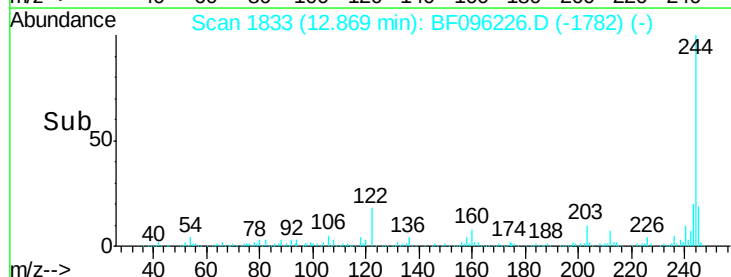
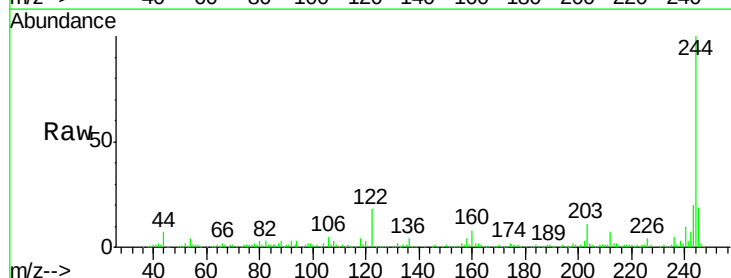
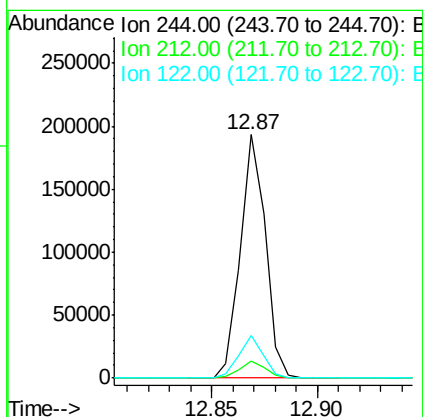
RT: 12.87 min Scan# 1833

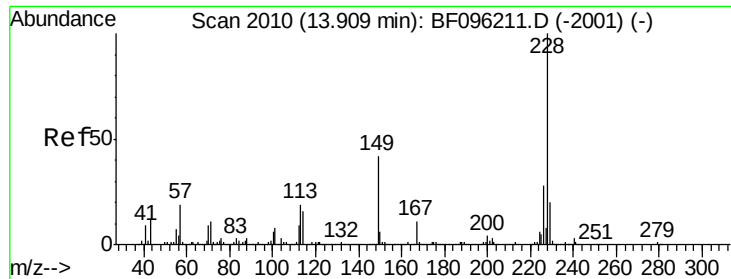
Delta R.T. 0.00 min

Lab File: BF096226.D

Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	17.5	10.3	15.5





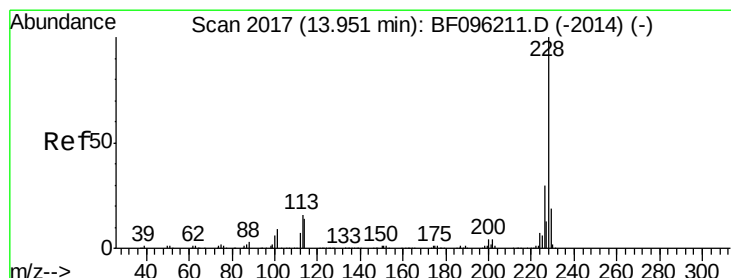
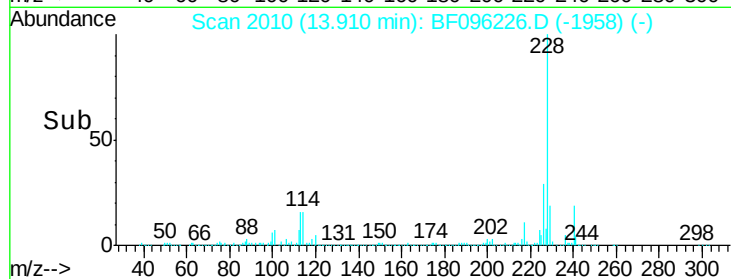
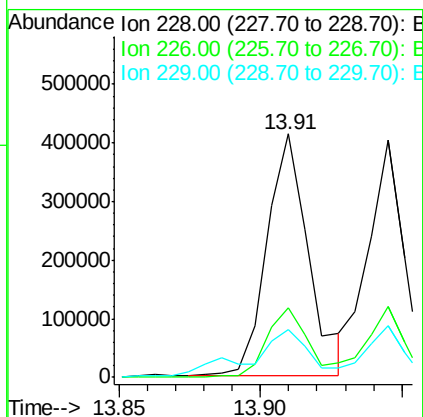
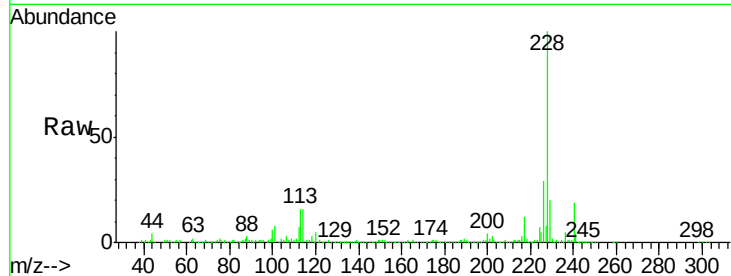
#80
Benzo(a)anthracene
Concen: 22.368 ng
RT: 13.91 min Scan# 2010
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampleId :
OB-2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	19.6	16.3	24.5

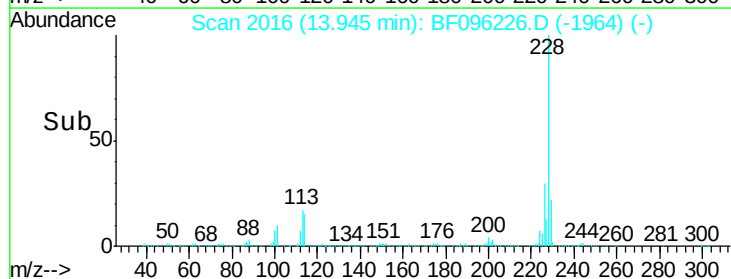
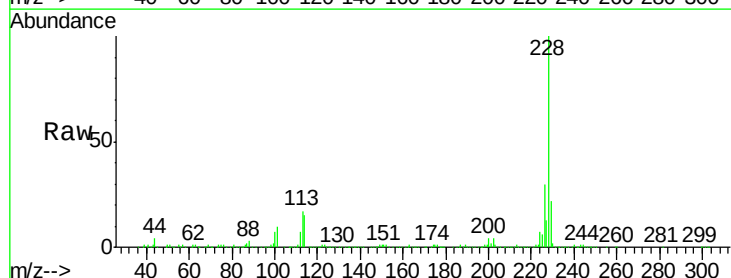
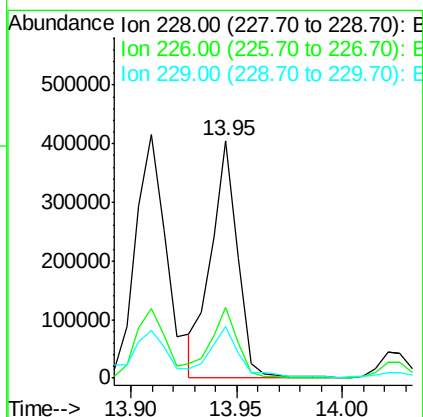
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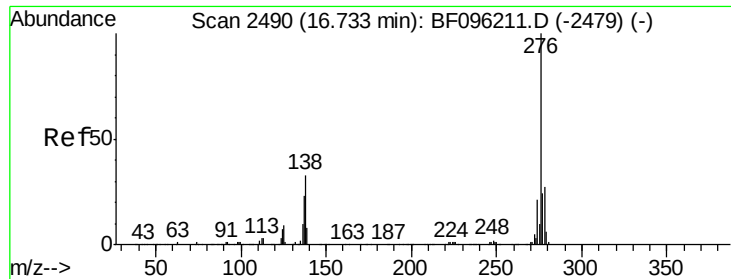
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#82
Chrysene
Concen: 17.859 ng
RT: 13.95 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.9	37.3
229	21.7	15.8	23.6





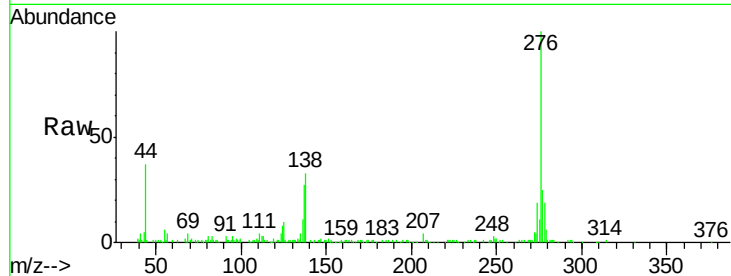
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.430 ng
RT: 16.73 min Scan# 2489
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampled :
OB-2

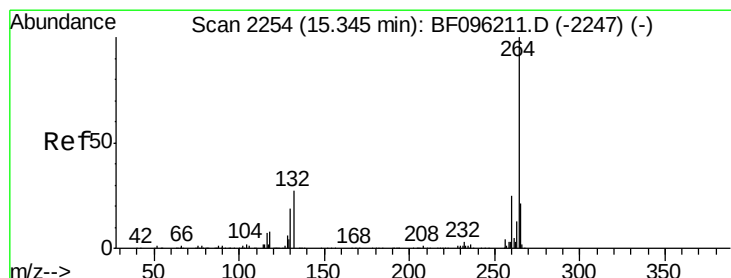
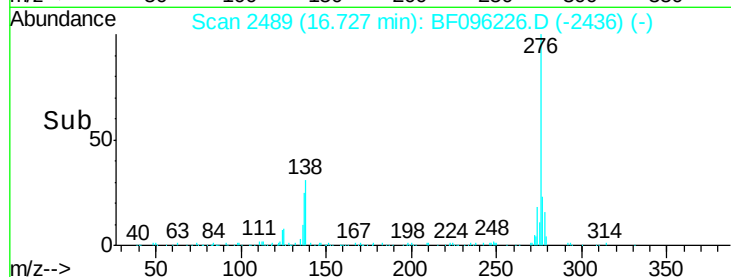
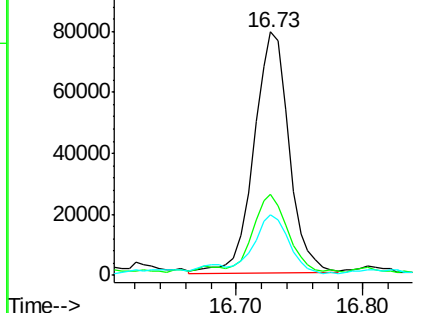
Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.4	27.8	41.6
277	23.7	20.2	30.4

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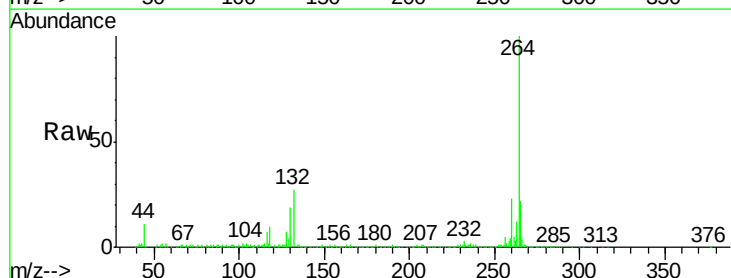


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

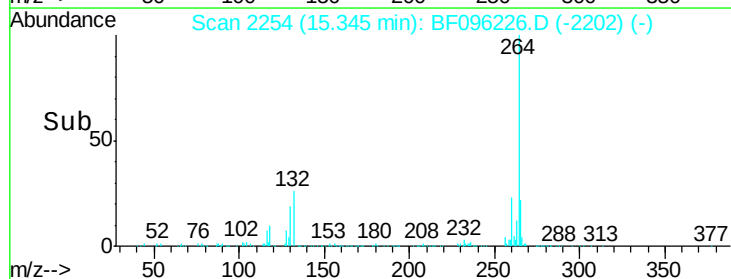
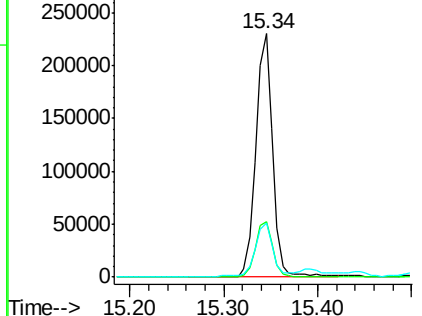


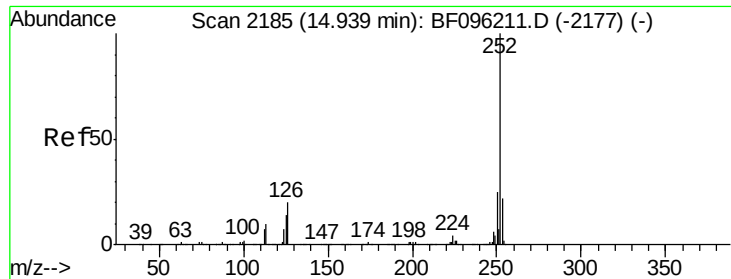
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2254
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	22.1	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





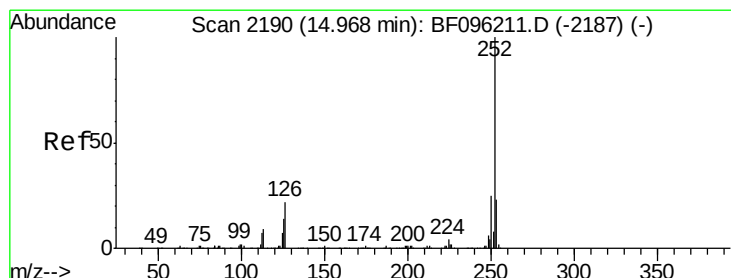
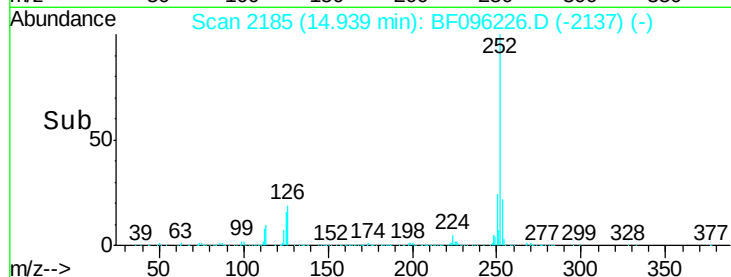
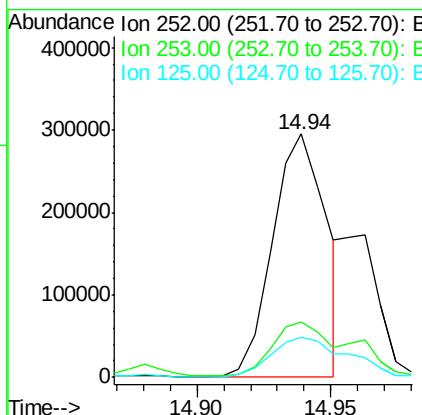
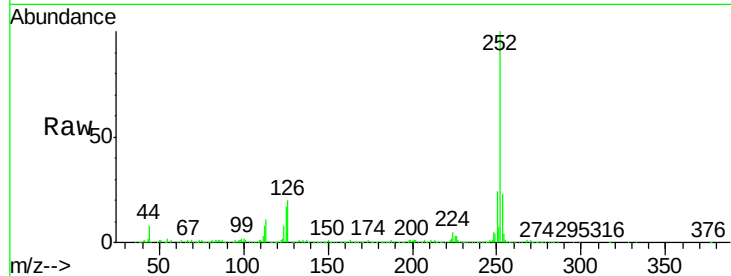
#87
Benzo(b)fluoranthene
Concen: 21.920 ng m
RT: 14.94 min Scan# 2185
Delta R.T. -0.02 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampleId :
OB-2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	16.7	9.8	14.8

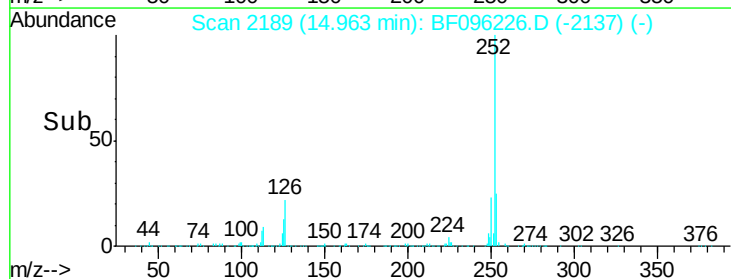
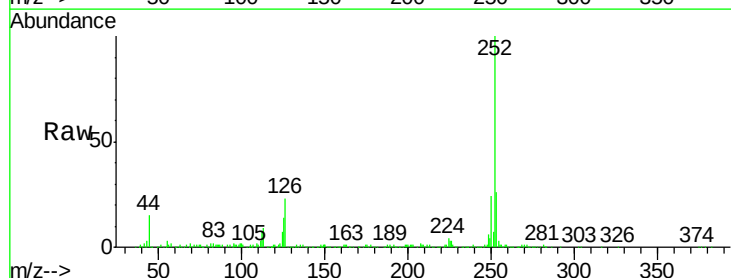
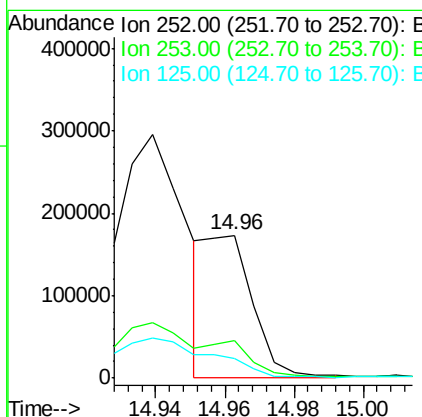
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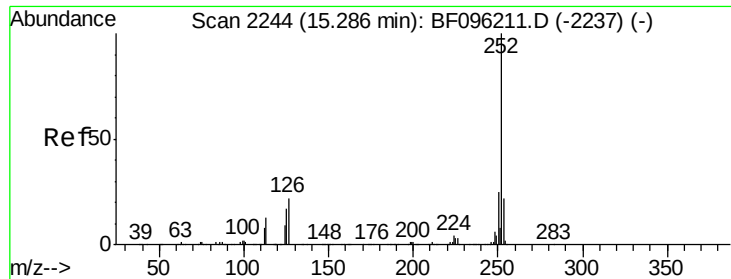
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#88
Benzo(k)fluoranthene
Concen: 9.544 ng m
RT: 14.96 min Scan# 2189
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.4	27.6
125	13.7	13.1	19.7





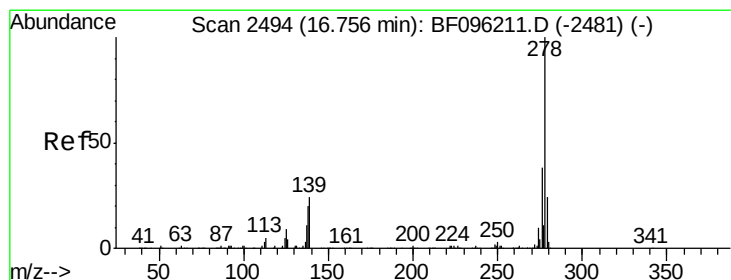
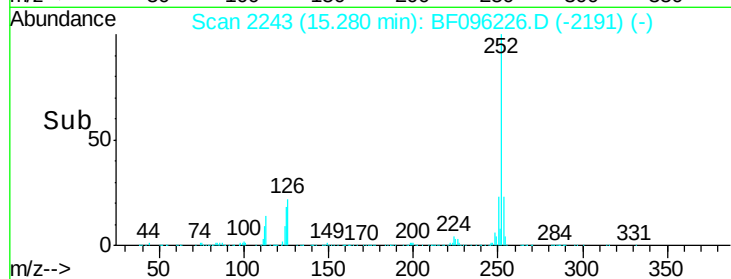
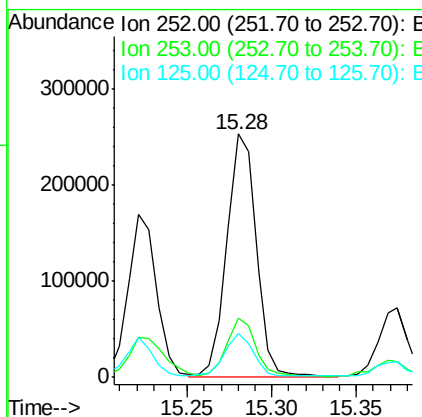
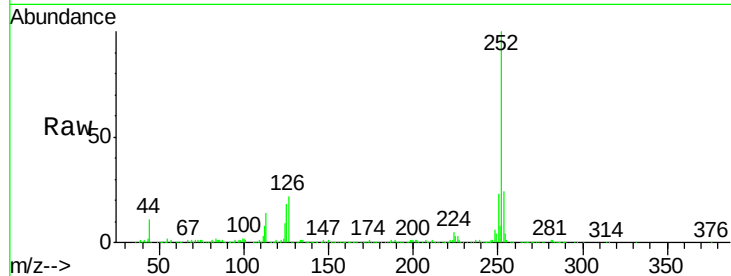
#89
Benzo(a)pyrene
Concen: 18.466 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Instrument :
BNA_F
ClientSampleId :
OB-2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	17.9	11.0	16.4

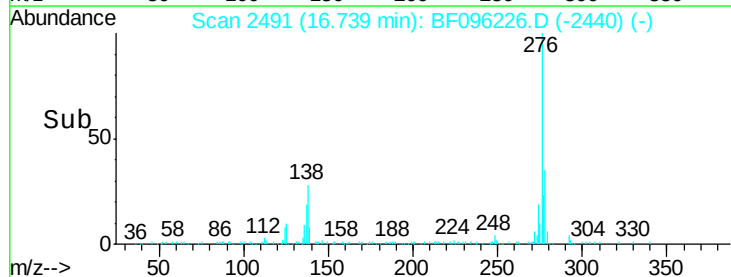
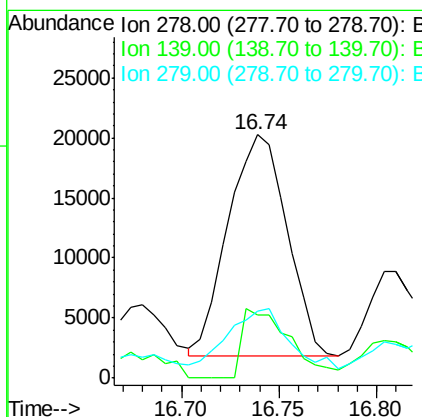
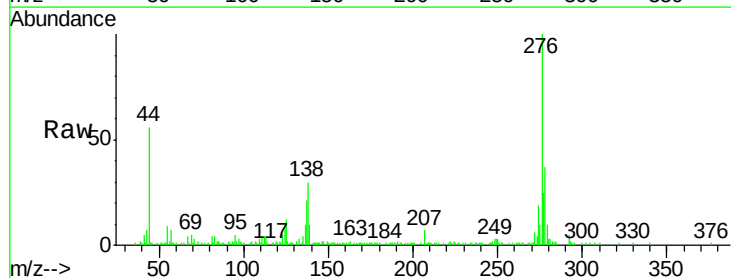
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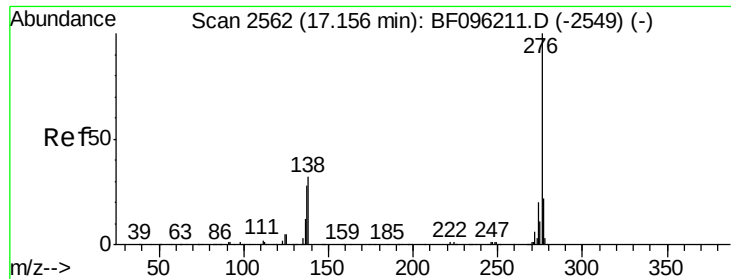
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#90
Dibenzo(a,h)anthracene
Concen: 2.953 ng
RT: 16.74 min Scan# 2491
Delta R.T. 0.00 min
Lab File: BF096226.D
Acq: 27 Jun 2017 19:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.0	16.6	24.8
279	27.5	19.3	28.9





#91
 Benzo(g,h,i)perylene
 Concen: 10.270 ng
 RT: 17.14 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BF096226.D
 Acq: 27 Jun 2017 19:53

Instrument :
 BNA_F
 ClientSampleId :
 OB-2

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		138585		
277	23.1	18.6		28.0	
138	36.6	25.4		38.0	

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