

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
 Data File : BF099219.D
 Acq On : 8 Oct 2017 4:19
 Operator : SJ/JU
 Sample : I5530-04 20X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LB-32(1.5-2)

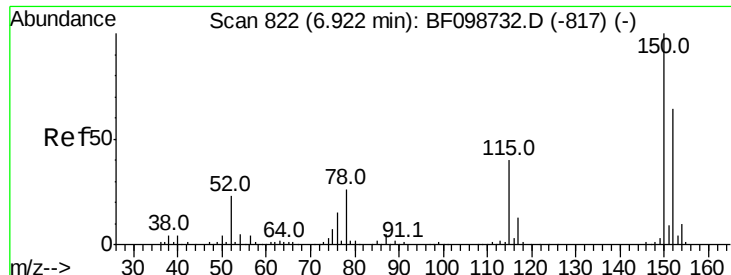
Manual Integrations
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Quant Time: Oct 08 06:15:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Oct 08 03:54:40 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	106257	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	400632	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	148295	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	232360	20.00	ng	0.00
75) Chrysene-d12	14.03	240	195735	20.00	ng	0.00
86) Perylene-d12	15.50	264	154765	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	32532	4.87	ng	0.00
7) Phenol-d6	6.49	99	39779	4.83	ng	0.00
23) Nitrobenzene-d5	7.42	82	20030	3.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	4146	3.42	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	39496	4.45	ng	0.00
78) Terphenyl-d14	12.97	244	27036	3.14	ng	0.00
Target Compounds						
51) Acenaphthene	9.93	154	27719	2.987	ng	Qvalue 99
54) Dibenzofuran	10.10	168	35730	2.892	ng	97
57) Fluorene	10.45	166	36570	3.683	ng	98
70) Phenanthrene	11.42	178	353616	28.431	ng	97
71) Anthracene	11.46	178	107646	8.459	ng	97
74) Fluoranthene	12.60	202	355102	28.195	ng	98
77) Pyrene	12.83	202	304334	20.390	ng	98
80) Benzo(a)anthracene	14.02	228	126738	10.693	ng	98
82) Chrysene	14.06	228	106834	9.468	ng	99
85) Indeno(1,2,3-cd)pyrene	16.99	276	34799	3.855	ng	95
87) Benzo(b)fluoranthene	15.07	252	108623m	11.415	ng	
88) Benzo(k)fluoranthene	15.10	252	29669m	3.157	ng	
89) Benzo(a)pyrene	15.44	252	72683	8.321	ng	# 94
91) Benzo(a,h,i)perylene	17.44	276	32893	4.760	ng	# 93

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



#1

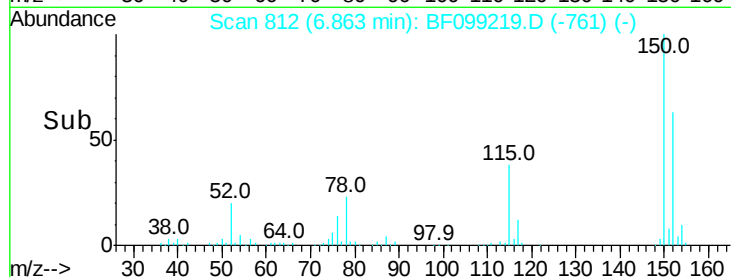
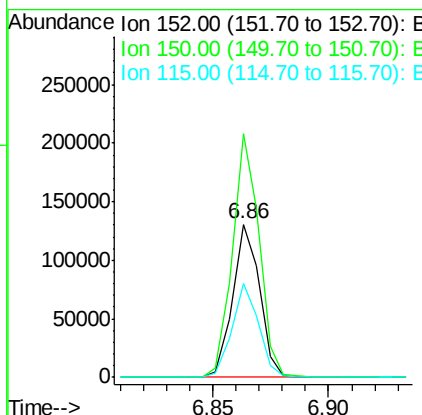
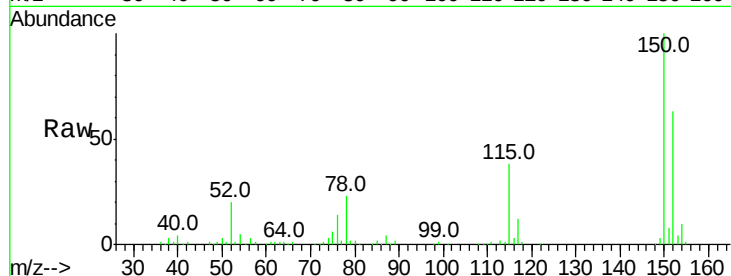
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampled :
LB-32(1.5-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	124.6	186.8
115	61.0	50.1	75.1

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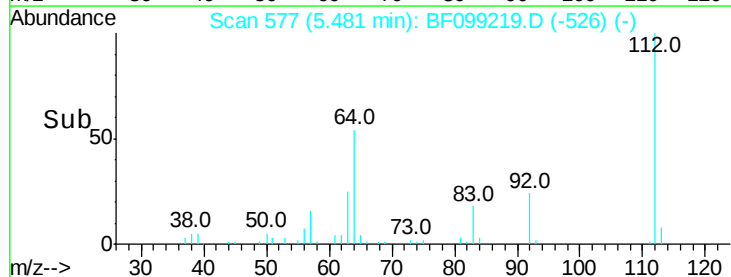
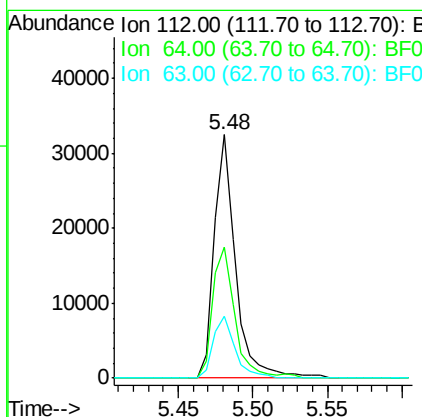
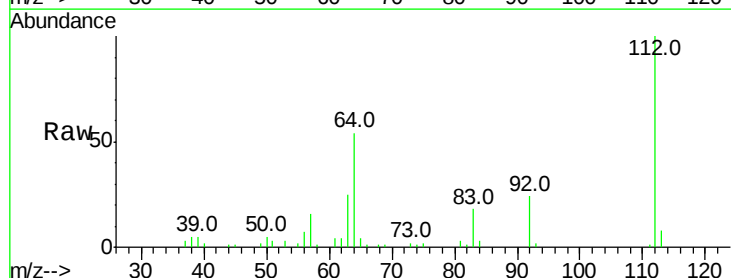
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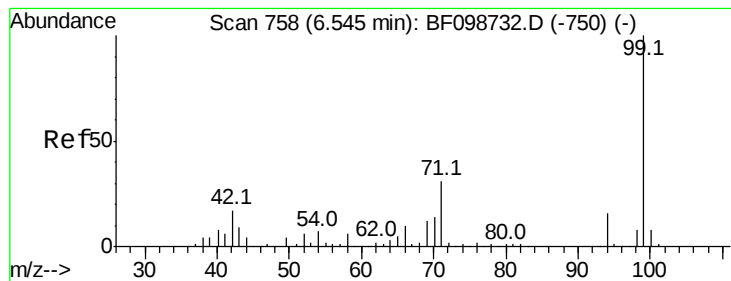


#5

2-Fluorophenol
Concen: 4.874 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	47.9	71.9
63	25.1	23.7	35.5





#7

Phenol-d6

Concen: 4.831 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

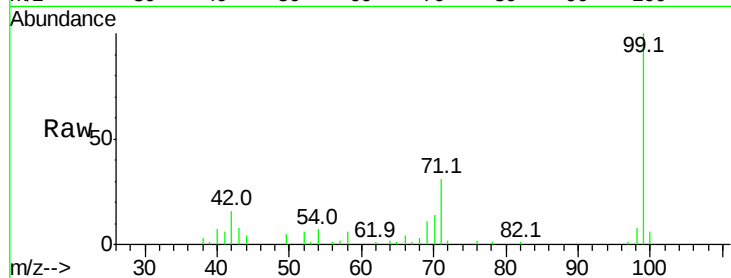
ClientSampleId :

LB-32(1.5-2)

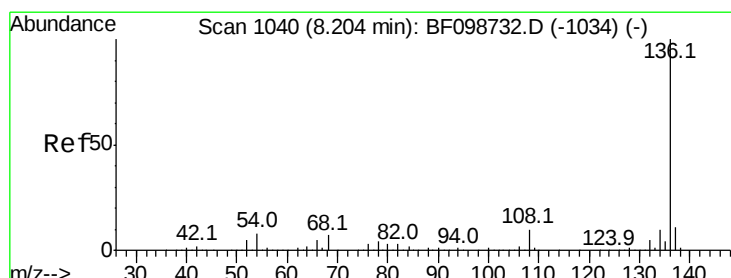
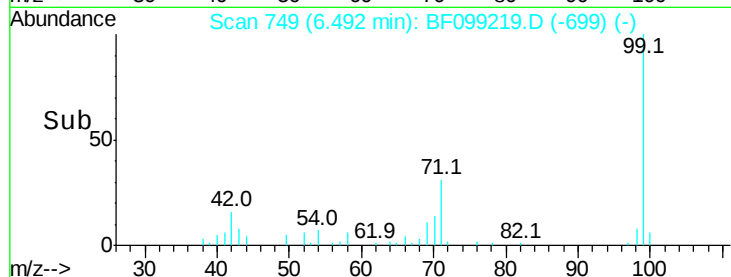
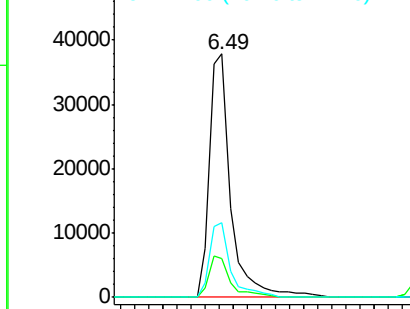
Tot Ion:	99	Resp:	39779
Ion Ratio	Lower	Upper	
99	100		
42	15.8	14.5	21.7
71	30.7	25.4	38.0

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

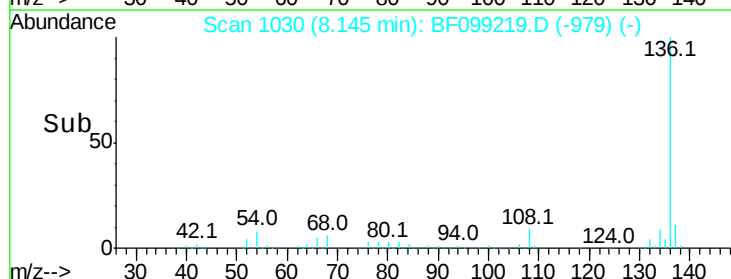
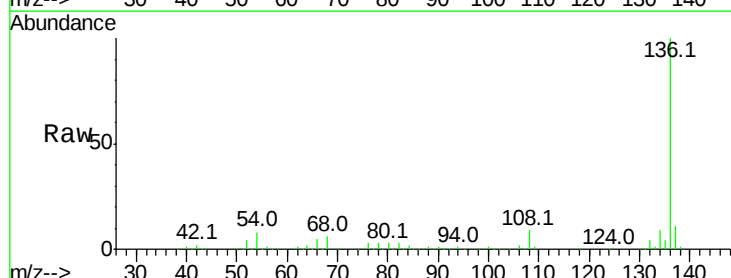
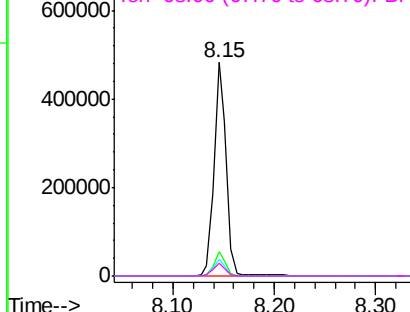
Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Tgt Ion:	136	Resp:	400632
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	7.6	6.6	9.8
68	6.1	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





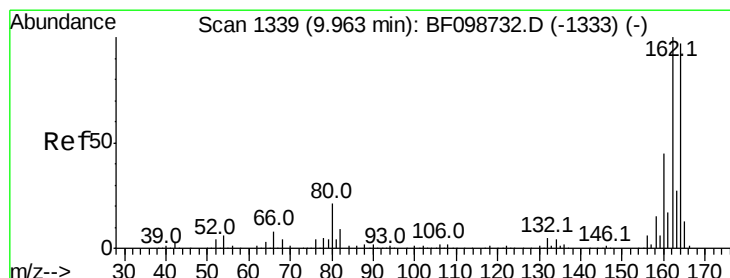
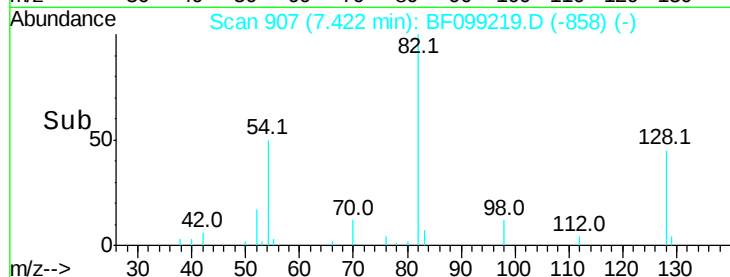
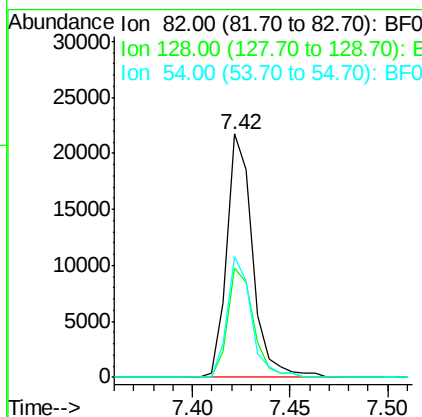
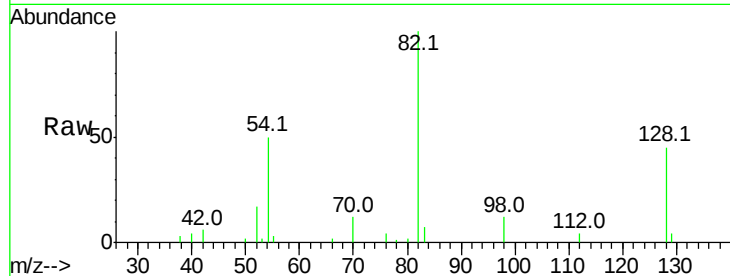
#23
 Nitrobenzene-d5
 Concen: 3.206 ng
 RT: 7.42 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampled :
 LB-32(1.5-2)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	20030		
128	44.9		36.1	54.1
54	49.5		41.4	62.2

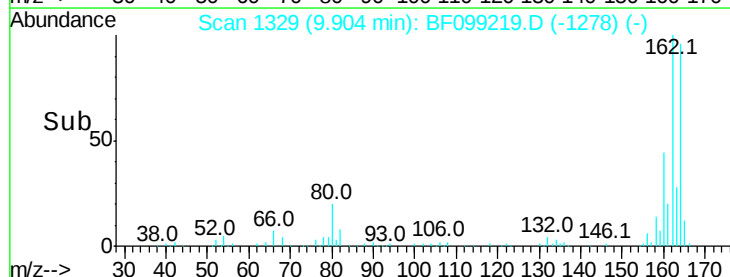
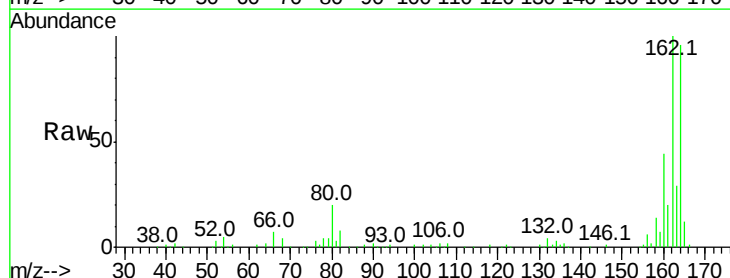
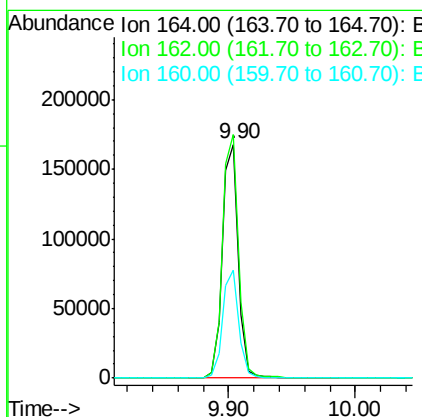
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1329
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	148295		
162	104.2		86.1	129.1
160	46.2		38.3	57.5





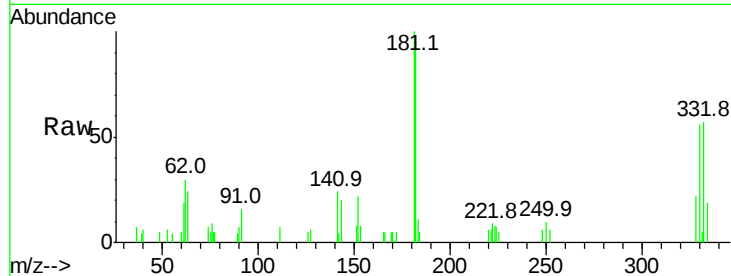
#41
 2,4,6-Tribromophenol
 Concen: 3.417 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampleId :
 LB-32(1.5-2)

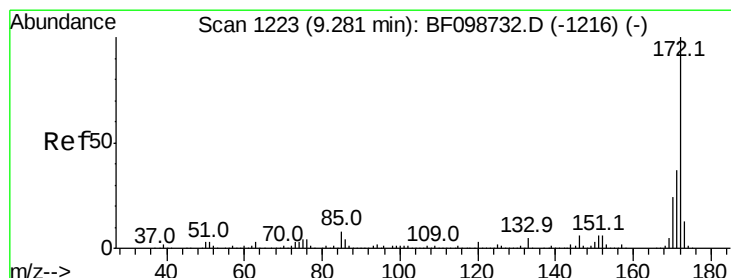
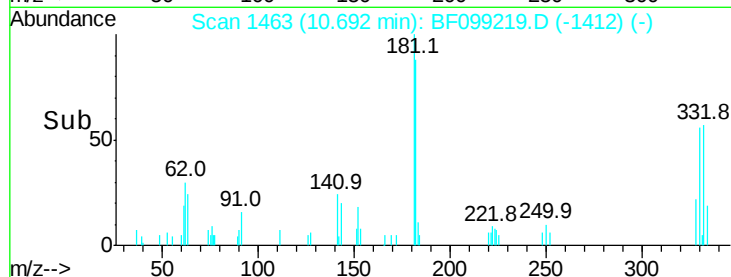
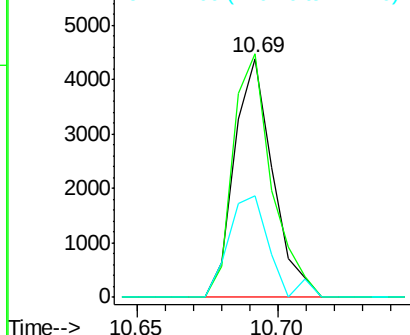
Tot Ion	Ratio	Lower	Upper
330	100		
332	102.5	77.0	115.6
141	45.6	29.9	44.9

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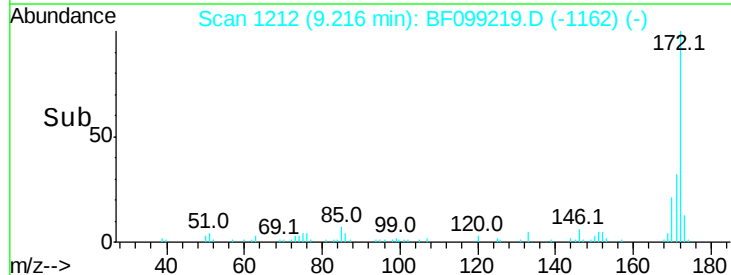
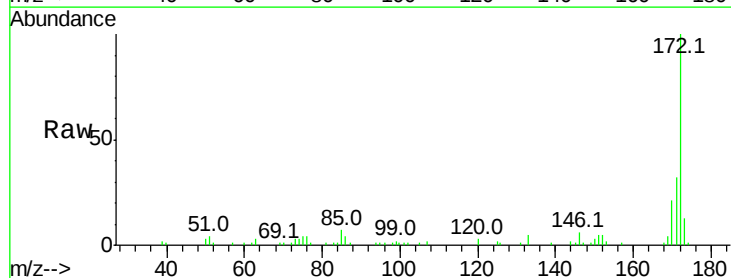
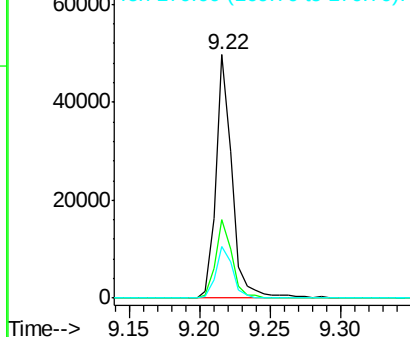
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

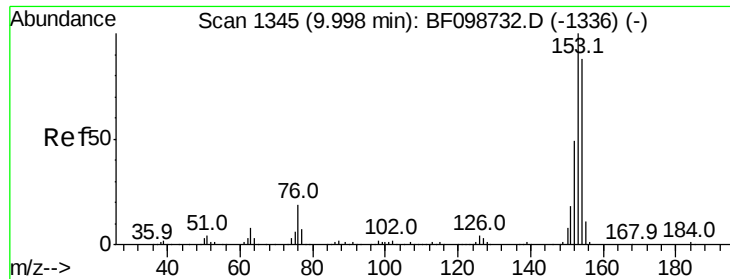


#44
 2-Fluorobiphenyl
 Concen: 4.446 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.1	29.7	44.5
170	21.4	19.6	29.4

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#51

Acenaphthene

Concen: 2.987 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

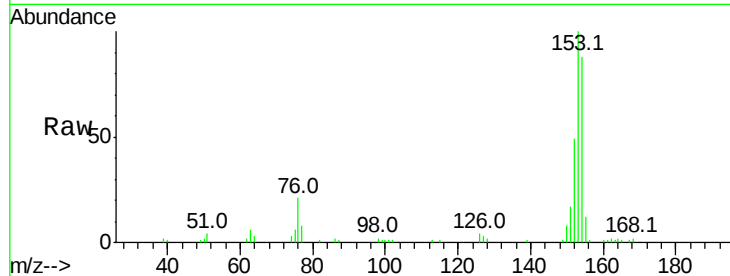
ClientSampled :

LB-32(1.5-2)

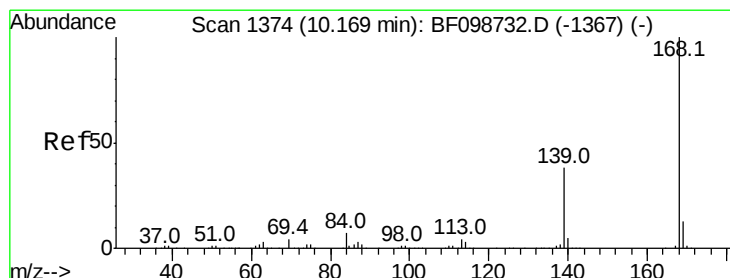
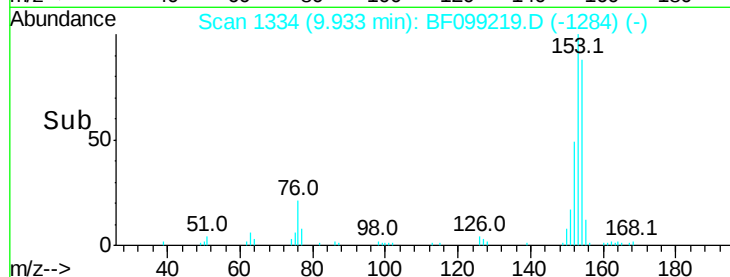
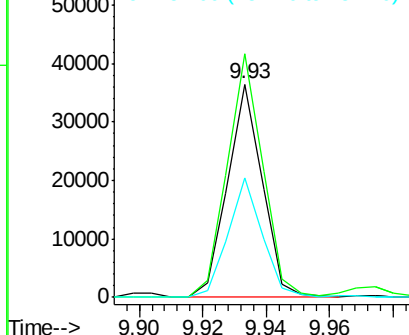
Tot Ion:	154	Resp:	27719
Ion Ratio	Lower	Upper	
154	100		
153	114.2	91.2	136.8
152	55.8	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.892 ng

RT: 10.10 min Scan# 1363

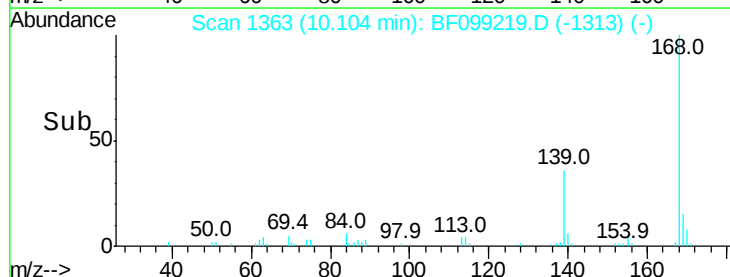
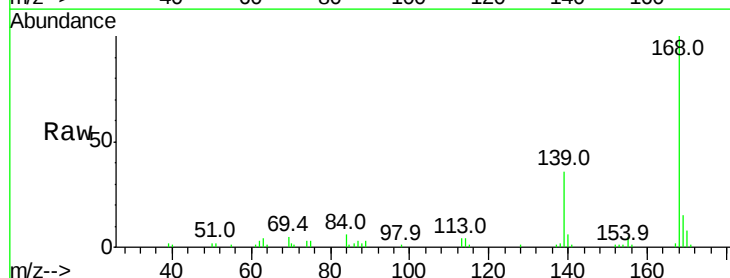
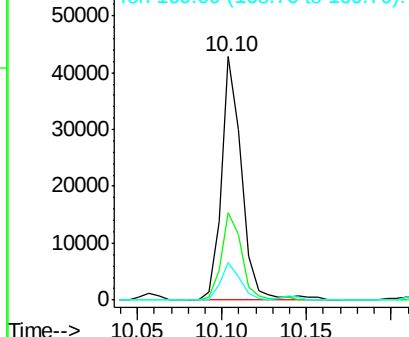
Delta R.T. -0.01 min

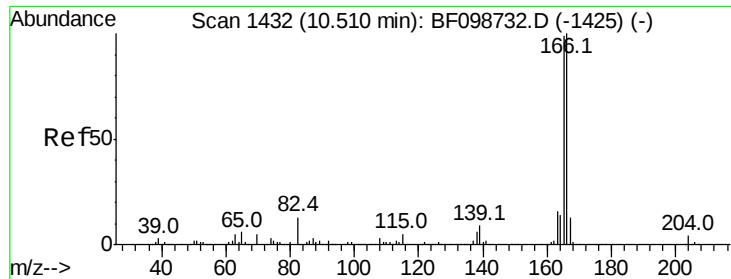
Lab File: BF099219.D

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Tgt Ion:	168	Resp:	35730
Ion Ratio	Lower	Upper	
168	100		
139	36.0	30.1	45.1
169	15.3	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





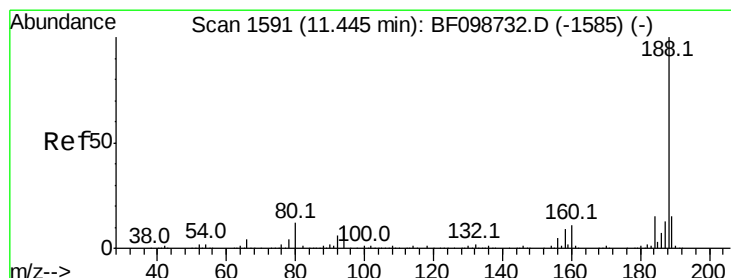
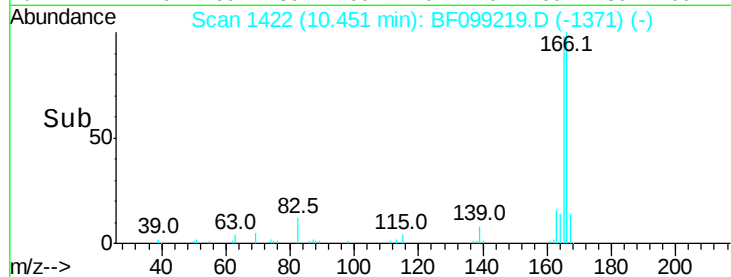
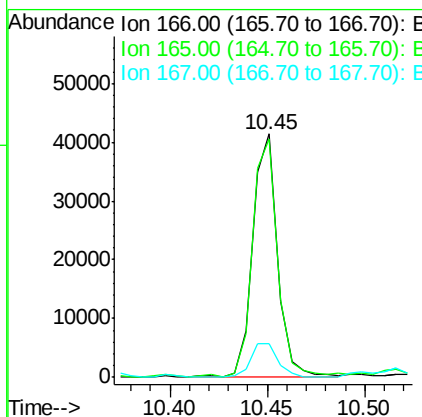
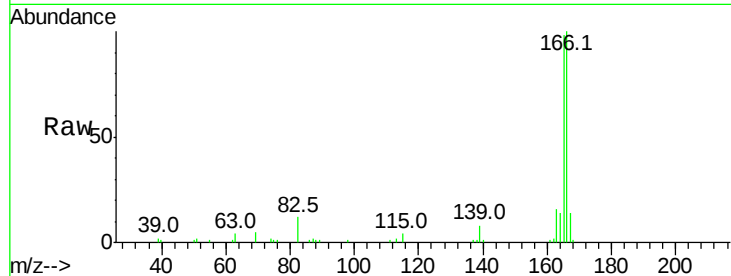
#57
Fluorene
 Concen: 3.683 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampled :
 LB-32(1.5-2)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	36570		
165	98.0		79.8	119.8
167	13.8		10.6	16.0

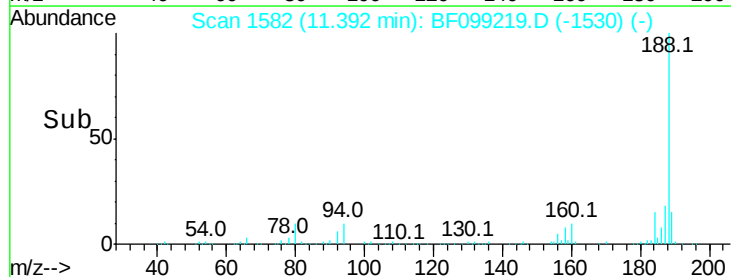
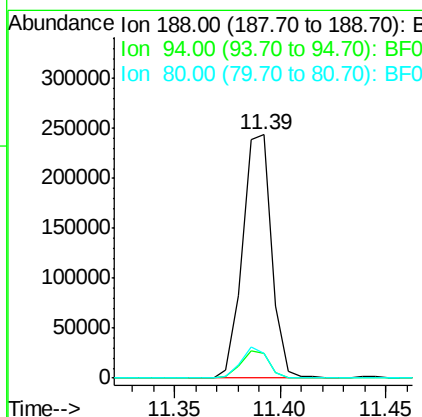
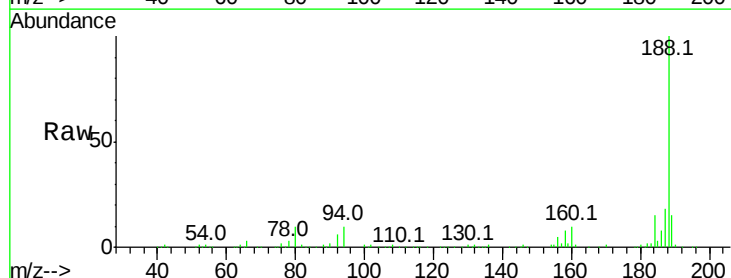
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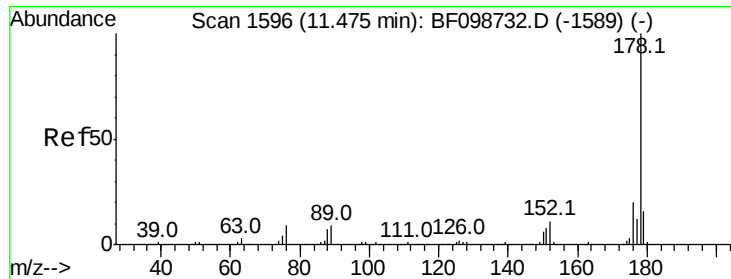
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. 0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	232360		
94	9.9		8.5	12.7
80	10.3		9.2	13.8





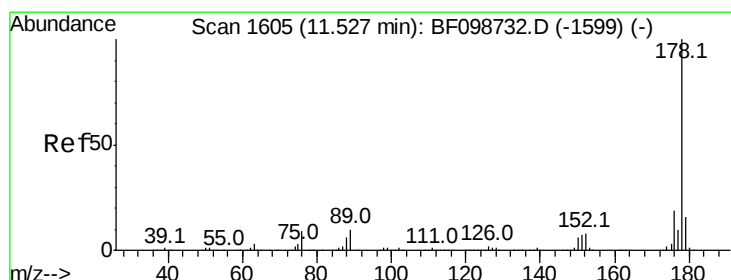
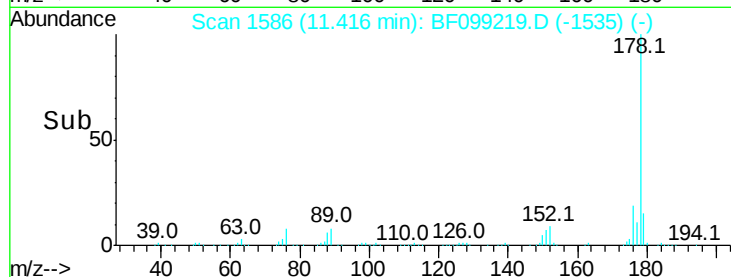
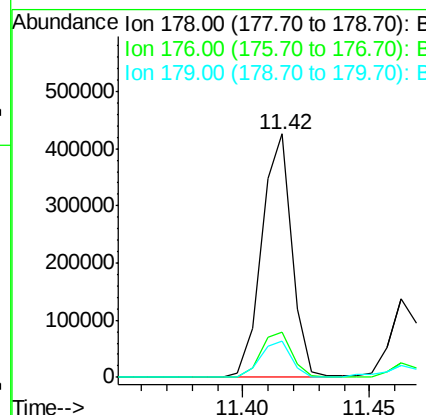
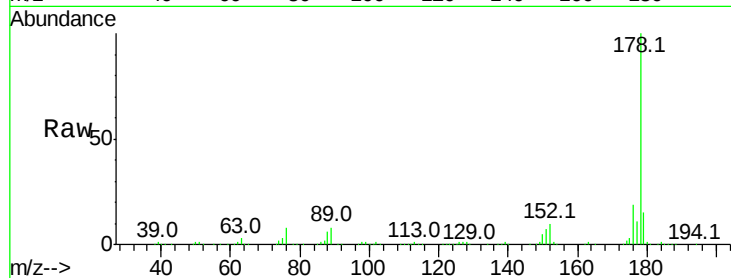
#70
 Phenanthrene
 Concen: 28.431 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampleId :
 LB-32(1.5-2)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.1	13.0	19.6

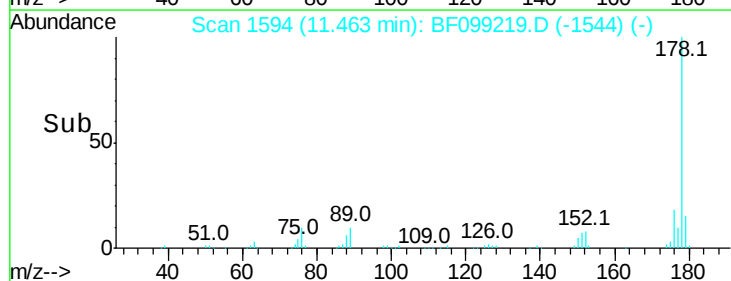
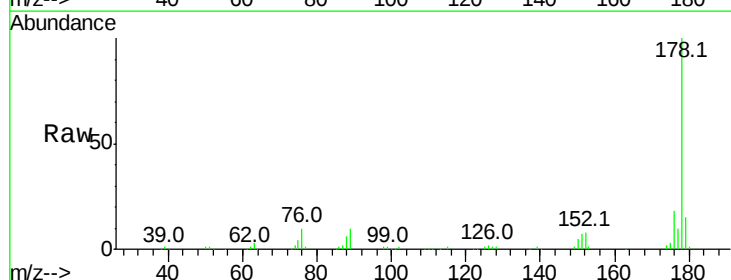
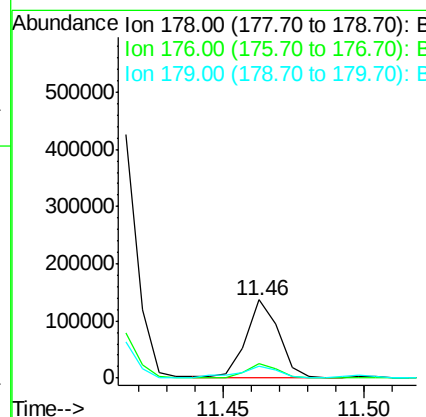
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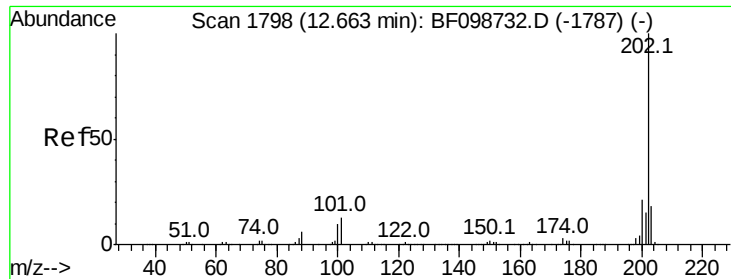
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 10/9/2017 6:35:08 PM



#71
 Anthracene
 Concen: 8.459 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	14.9	12.6	19.0





#74

Fluoranthene

Concen: 28.195 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

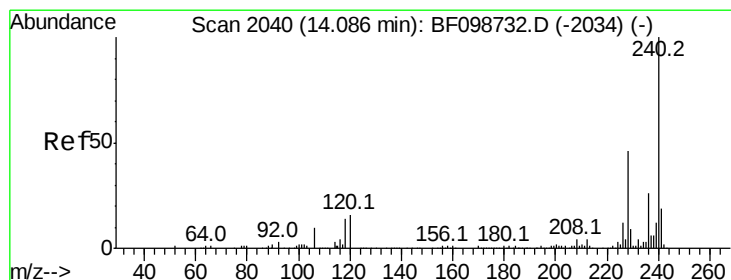
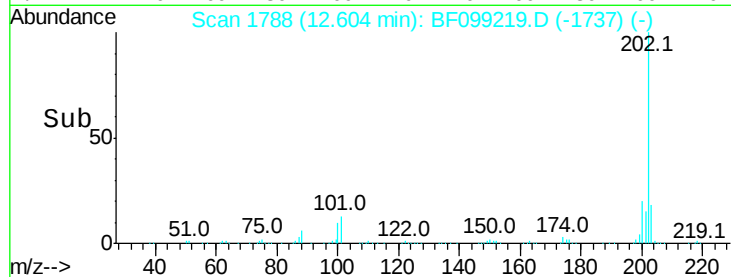
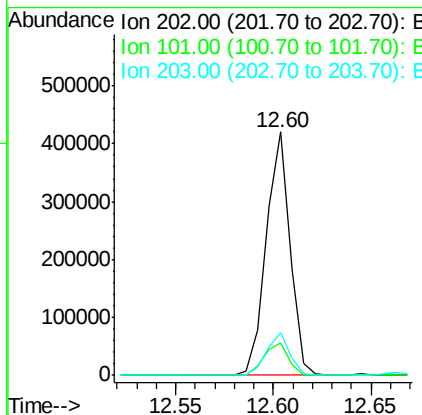
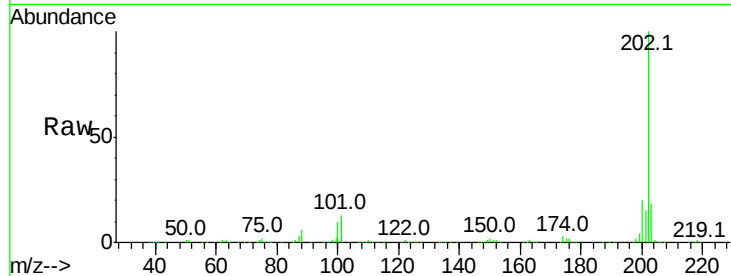
ClientSampled :

LB-32(1.5-2)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	355102		
101	13.3	0.0	34.1	
203	17.6	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

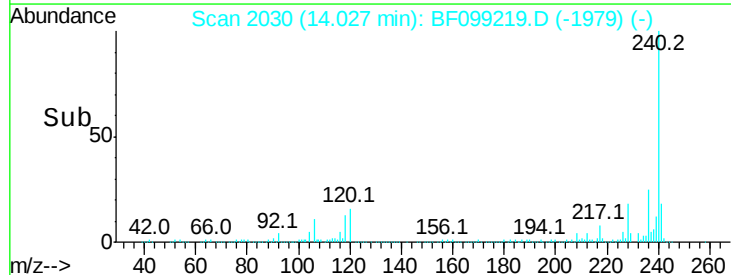
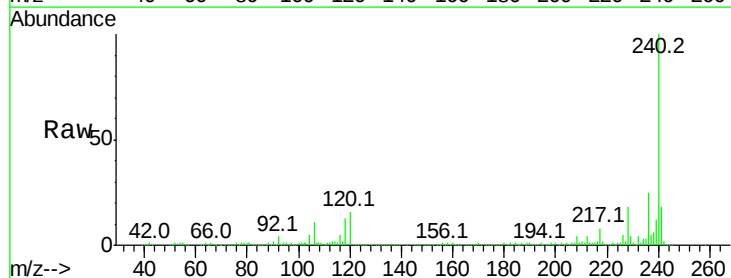
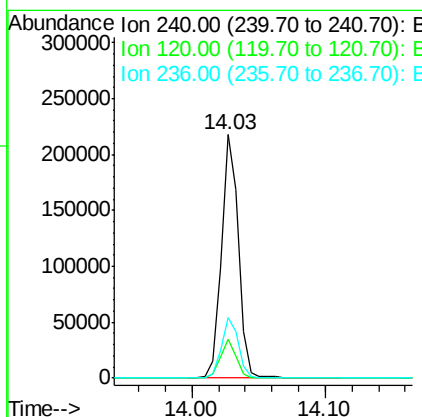
RT: 14.03 min Scan# 2030

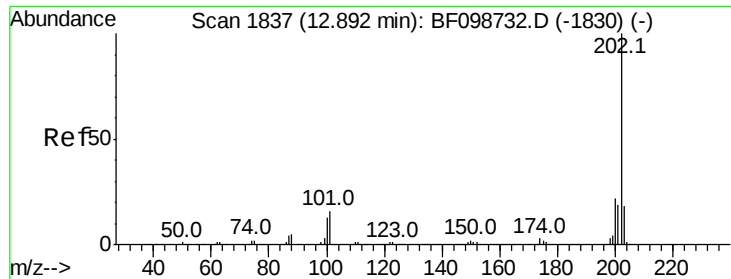
Delta R.T. -0.00 min

Lab File: BF099219.D

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Tgt Ion	Ratio	Resp	Lower	Upper
240	100	195735		
120	15.7	9.5	14.3#	
236	24.8	20.7	31.1	





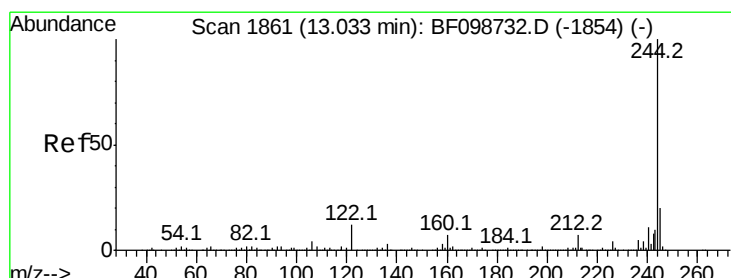
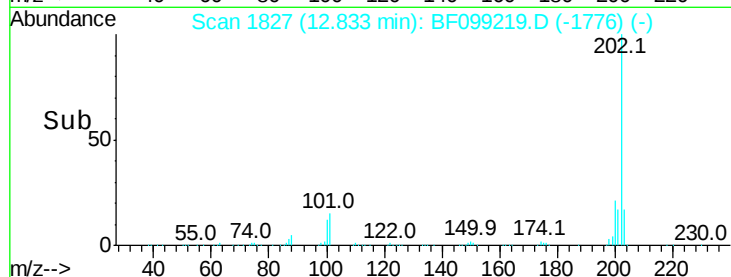
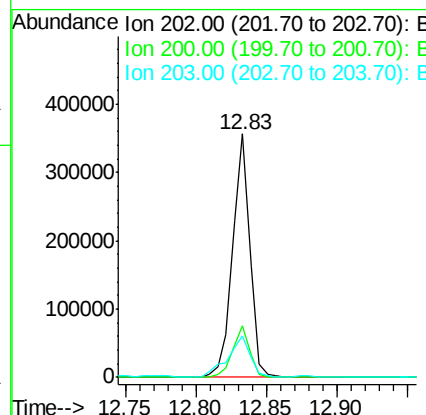
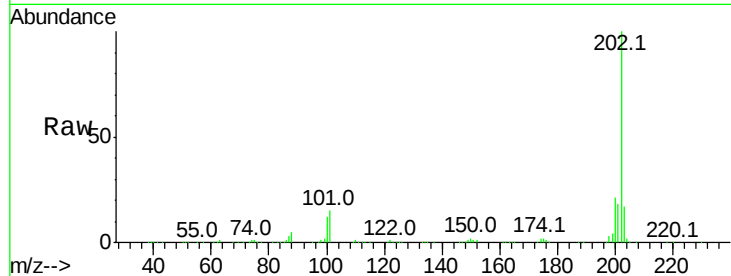
#77
Pvrene
Concen: 20.390 ng
RT: 12.83 min Scan# 1827
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :
LB-32(1.5-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2
203	17.2	14.3	21.5

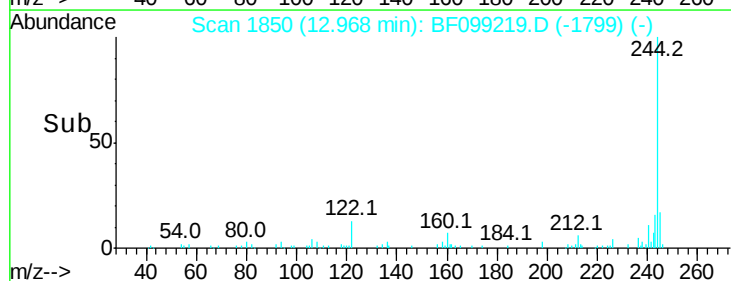
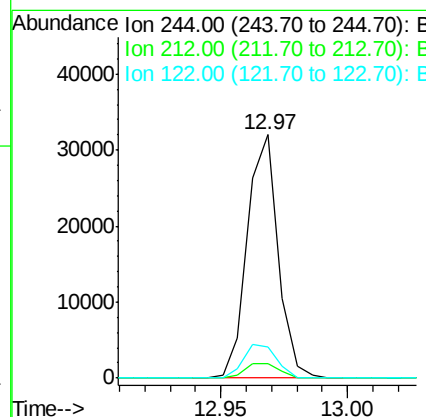
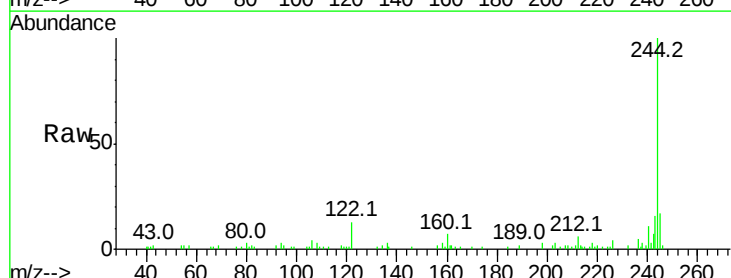
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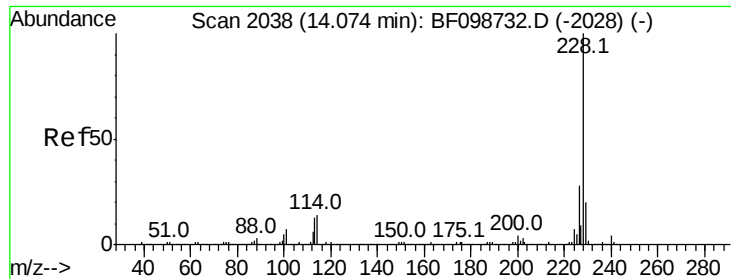
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#78
Terphenyl-d14
Concen: 3.141 ng
RT: 12.97 min Scan# 1850
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.1	5.4	8.0
122	12.9	11.0	16.4





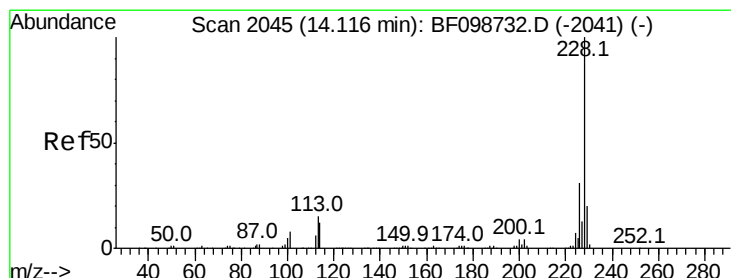
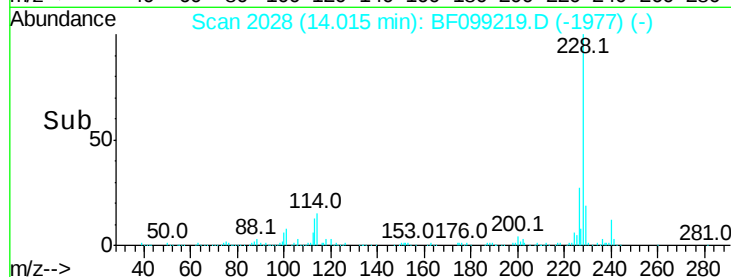
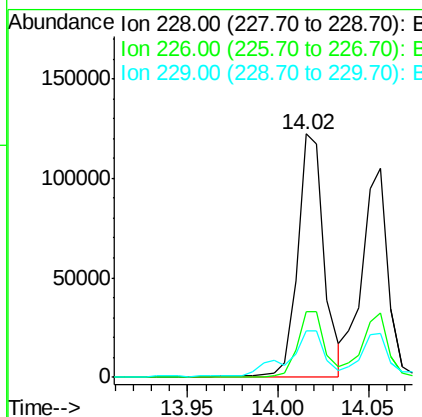
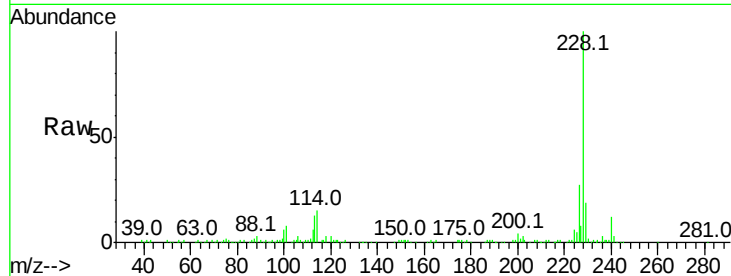
#80
Benzo(a)anthracene
Concen: 10.693 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :
LB-32(1.5-2)

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.6	33.8
229	18.9	15.8	23.6

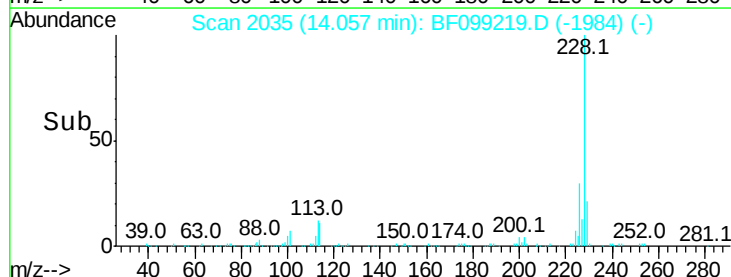
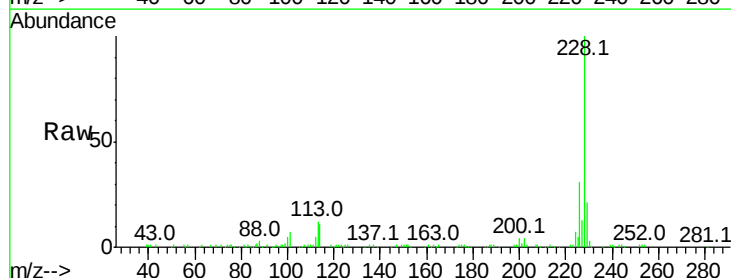
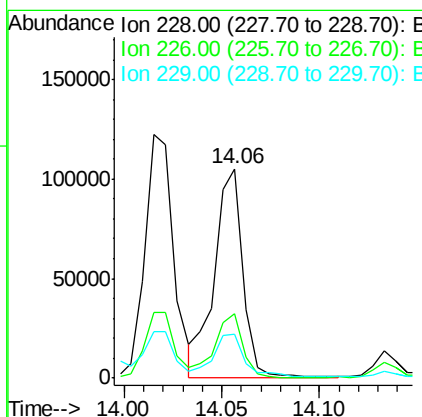
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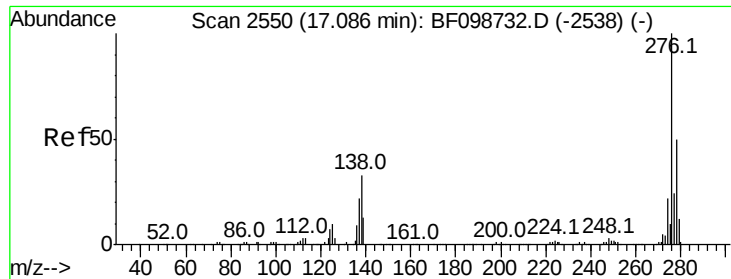
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#82
Chrysene
Concen: 9.468 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	21.2	16.2	24.4





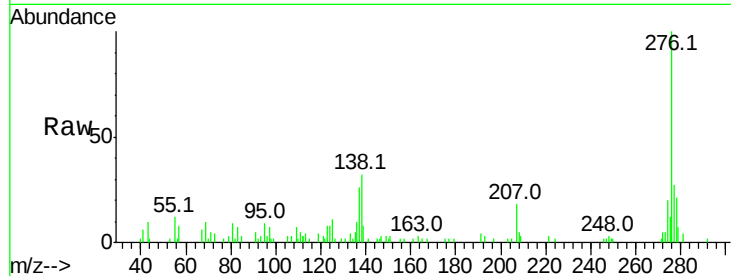
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.855 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampled :
LB-32(1.5-2)

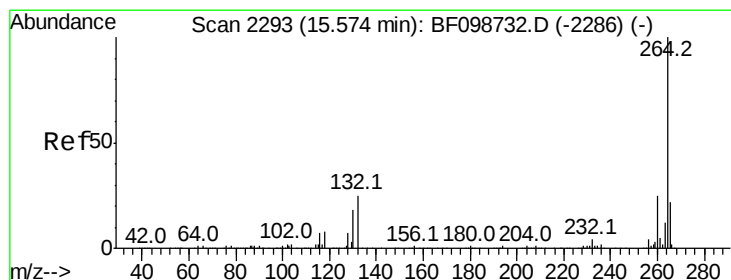
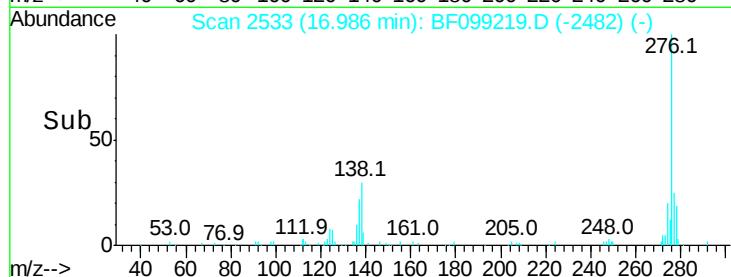
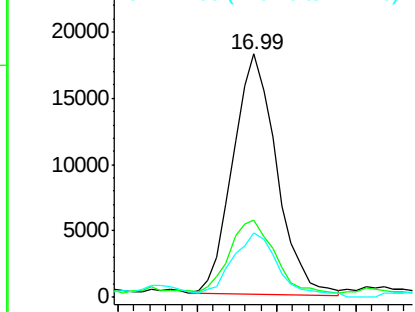
Tot Ion	Ratio	Lower	Upper
276	100		
138	32.8	25.0	37.6
277	28.5	20.1	30.1

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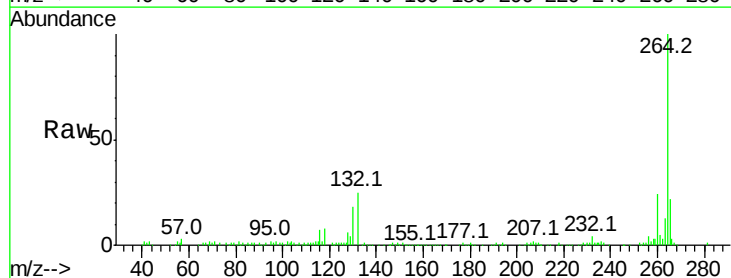


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

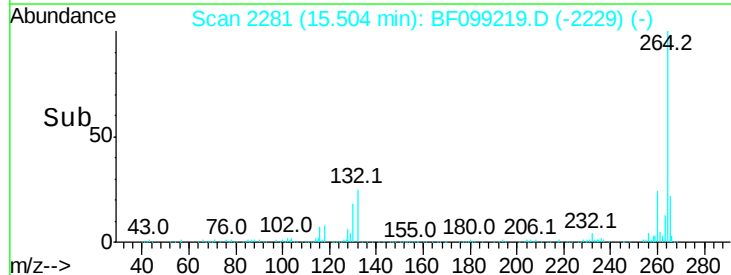
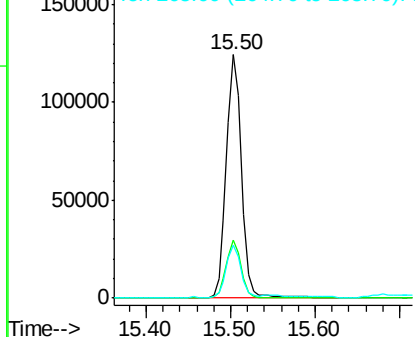


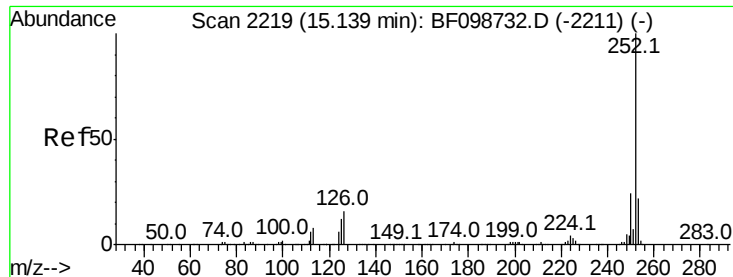
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.01 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.7	17.5	26.3



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: 11.415 ng m

RT: 15.07 min Scan# 2208

Delta R.T. 0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

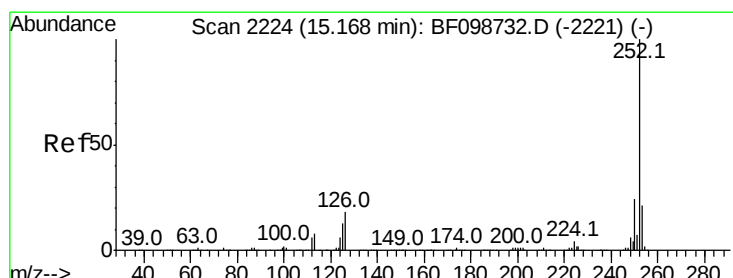
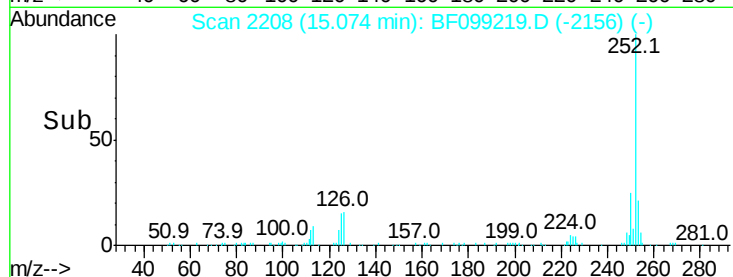
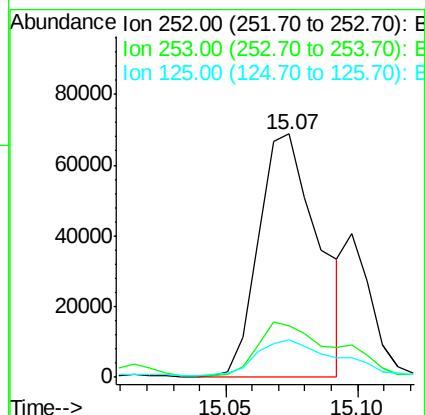
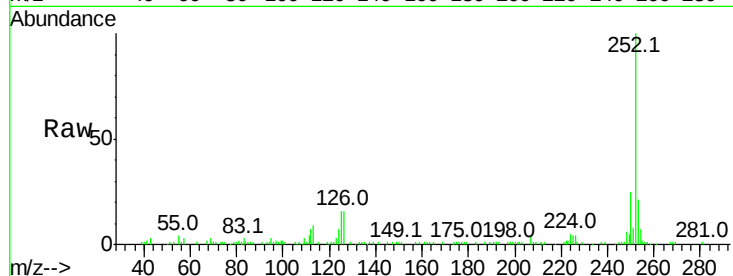
ClientSampleId :

LB-32(1.5-2)

Tot Ion:	252	Resp:	108623
Ion Ratio	Lower	Upper	
252	100		
253	21.3	17.0	25.6
125	15.5	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 3.157 ng m

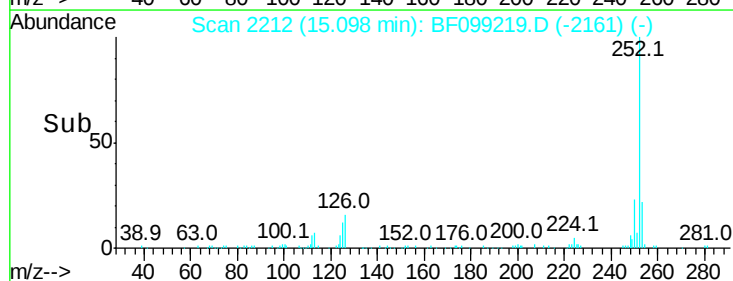
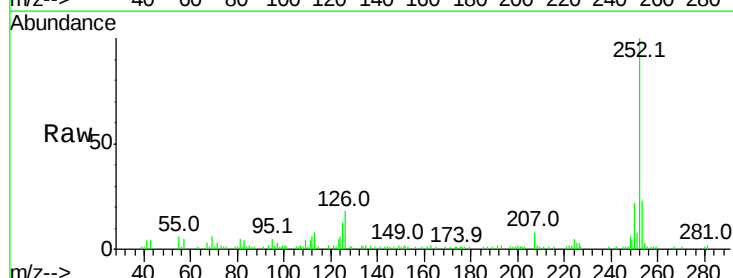
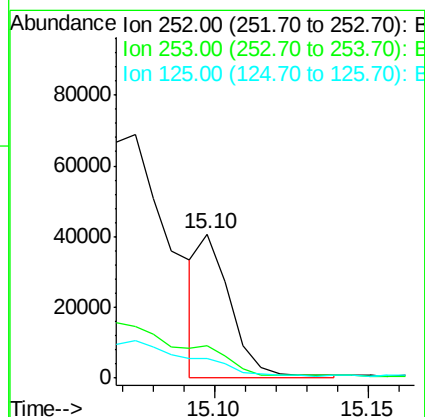
RT: 15.10 min Scan# 2212

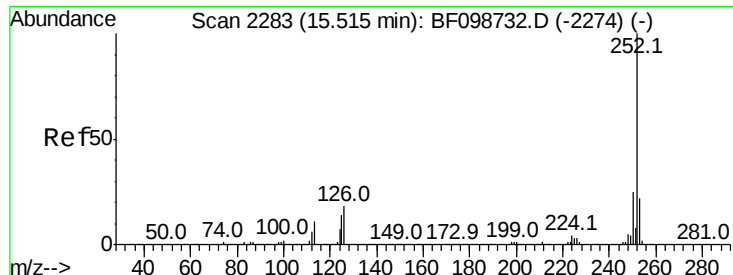
Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Tgt Ion:	252	Resp:	29669
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.9	26.9
125	13.4	10.2	15.2





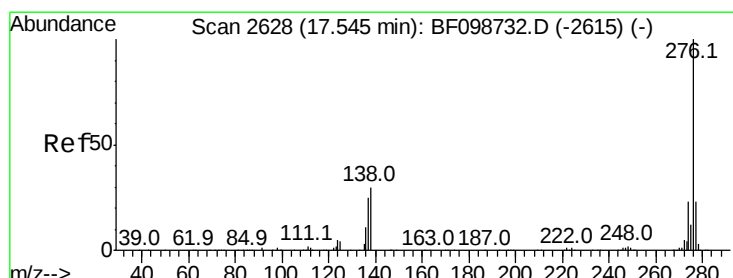
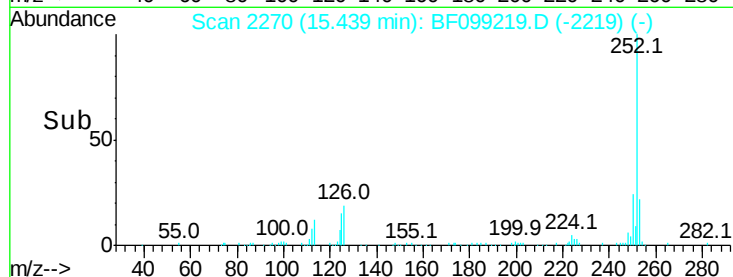
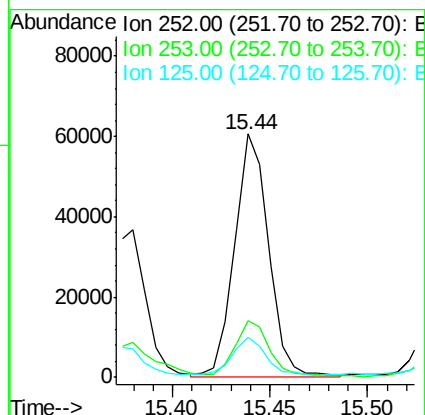
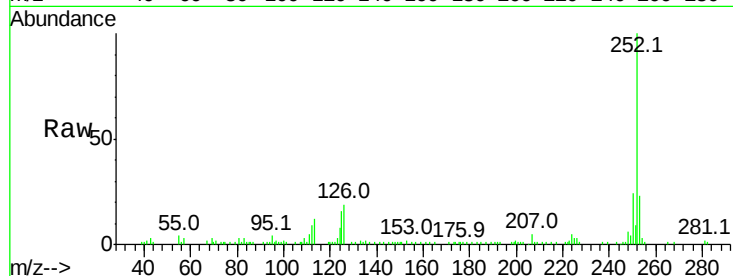
#89
Benzo(a)pyrene
Concen: 8.321 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :
LB-32(1.5-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	16.4	9.8	14.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 4.760 ng
RT: 17.44 min Scan# 2610
Delta R.T. 0.01 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.1	17.9	26.9
138	33.6	21.8	32.8

