

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097810.D
 Acq On : 18 Aug 2017 2:34
 Operator : SJ/JU
 Sample : I4774-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB441

Manual Integrations
 APPROVED

Sohil
 8/18/2017 7:02:36 PM

Quant Time: Aug 18 12:25:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	126076	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	433172	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	150245	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	260631	20.00	ng	0.00
75) Chrysene-d12	13.93	240	273495	20.00	ng	-0.01
86) Perylene-d12	15.36	264	189219	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	991923	119.67	ng	0.00
7) Phenol-d6	6.41	99	1321964	117.38	ng	0.00
23) Nitrobenzene-d5	7.34	82	777272	97.48	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	148083	113.59	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	979462	95.78	ng	0.00
78) Terphenyl-d14	12.89	244	800457	61.03	ng	0.00
Target Compounds						
10) Phenol	6.42	94	37727	2.864	ng	Qvalue 90
31) Naphthalene	8.08	128	200188	8.902	ng	99
37) 2-Methylnaphthalene	8.77	142	88084	6.389	ng	96
48) Acenaphthylene	9.67	152	51076	3.213	ng	98
49) Dimethylphthalate	9.53	163	155270	14.138	ng	100
70) Phenanthrene	11.32	178	52728	3.797	ng	98
71) Anthracene	11.37	178	36311	2.578	ng	97
74) Fluoranthene	12.50	202	47993	3.311	ng	94
77) Pyrene	12.73	202	113499	5.074	ng	96
80) Benzo(a)anthracene	13.92	228	52401m	3.197	ng	
82) Chrysene	13.96	228	58072	3.561	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.75	276	33715	2.811	ng	# 92
87) Benzo(b)fluoranthene	14.95	252	59918m	5.024	ng	
89) Benzo(a)pyrene	15.30	252	67593	6.402	ng	# 93
91) Benzo(a,h,i)perylene	17.17	276	56232	6.269	ng	# 91

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

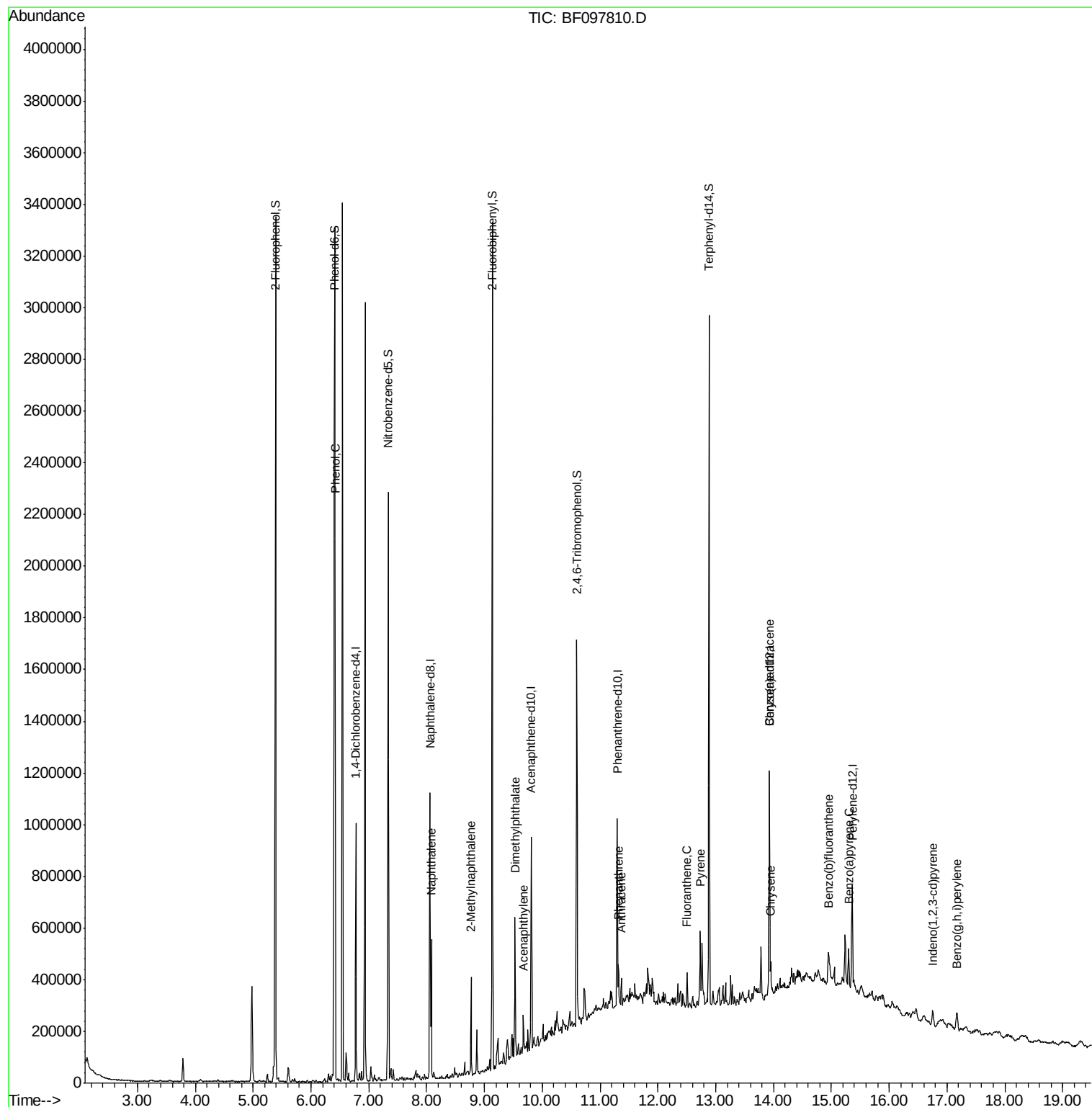
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
Data File : BF097810.D
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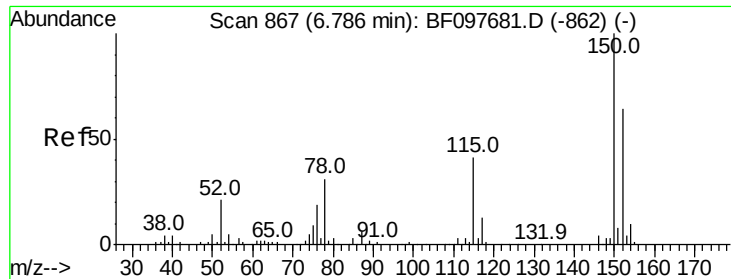
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#1

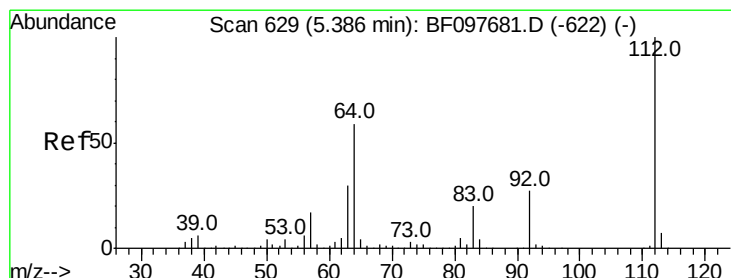
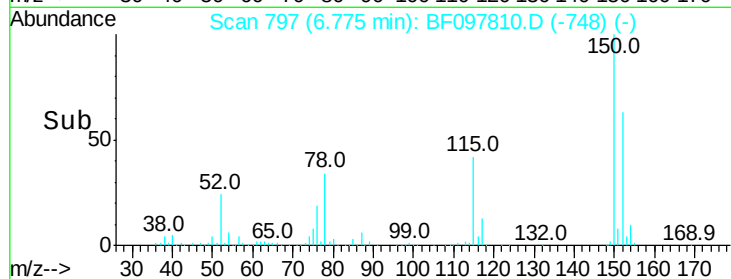
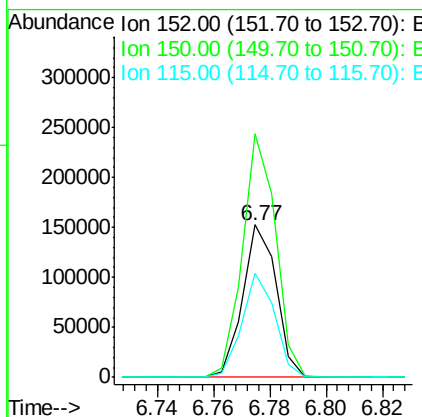
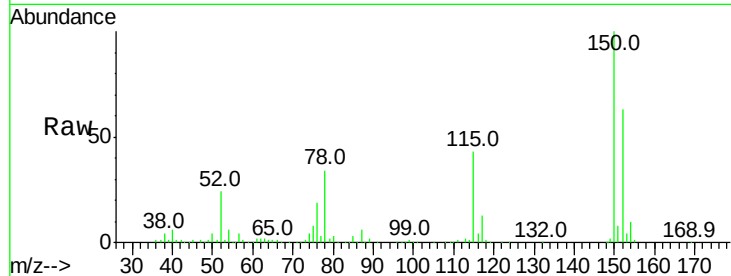
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampleId :
HY-SB441

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	126.2	189.2
115	68.1	52.2	78.2

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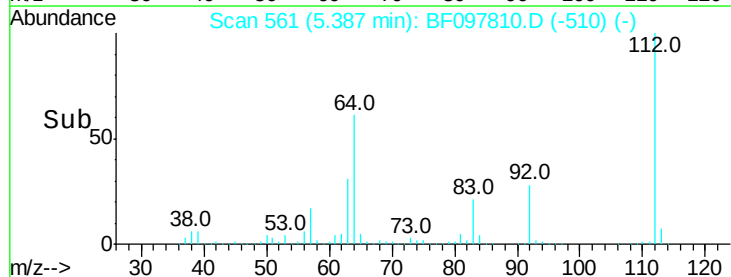
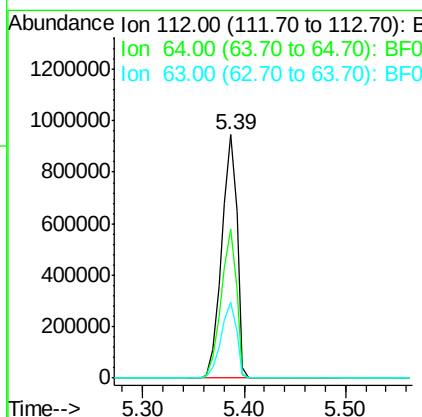
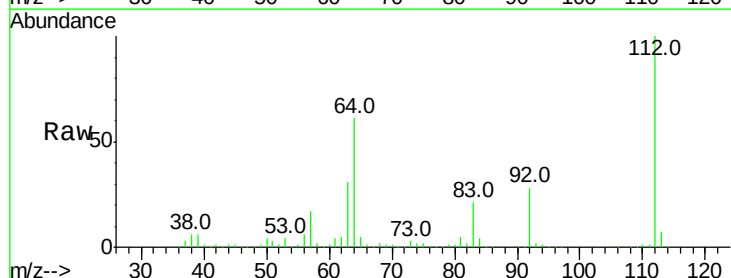
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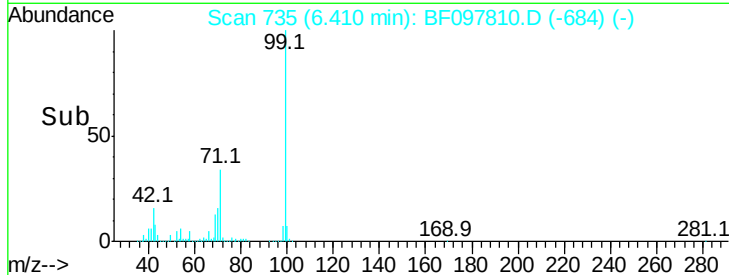
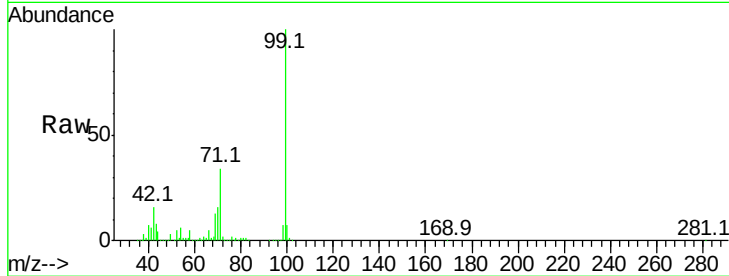
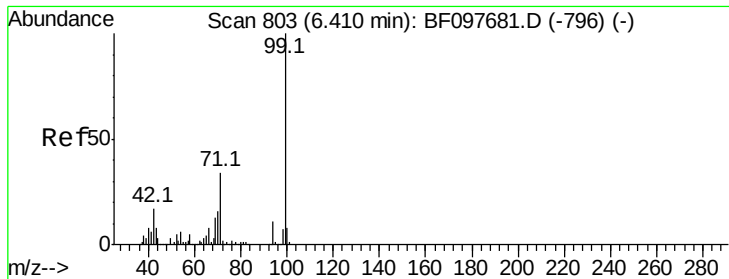


#5

2-Fluorophenol
Concen: 119.673 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.00 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	46.0	69.0
63	31.1	23.4	35.0





#7

Phenol-d6

Concen: 117.384 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tot Ion:	99	Resp:	1321964
Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.5	20.3
71	34.2	24.5	36.7

Instrument :

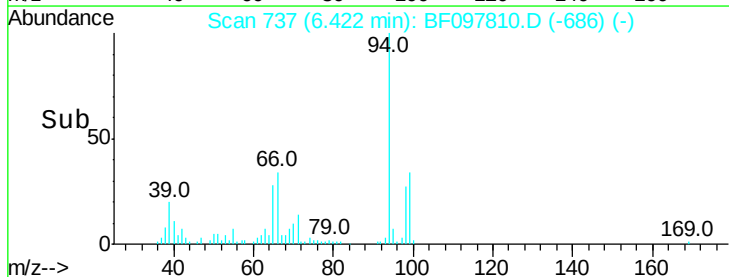
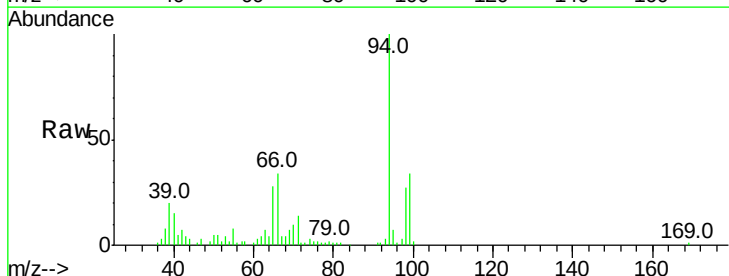
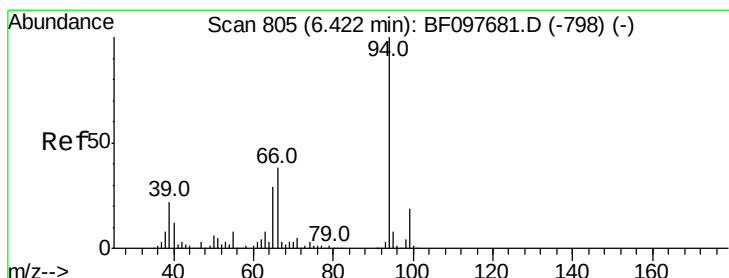
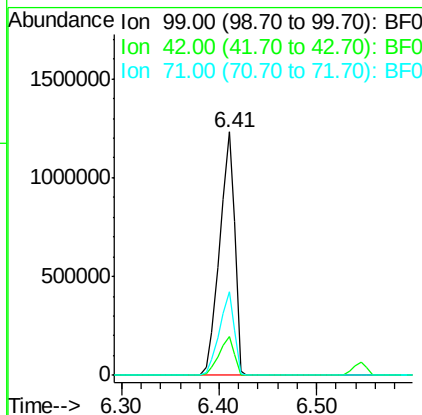
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 2.864 ng

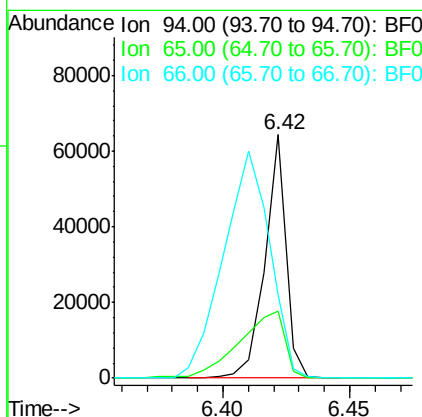
RT: 6.42 min Scan# 737

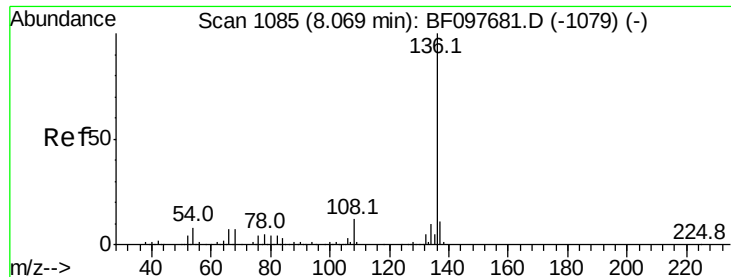
Delta R.T. 0.00 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion:	94	Resp:	37727
Ion	Ratio	Lower	Upper
94	100		
65	27.5	9.9	49.9
66	34.2	23.1	63.1





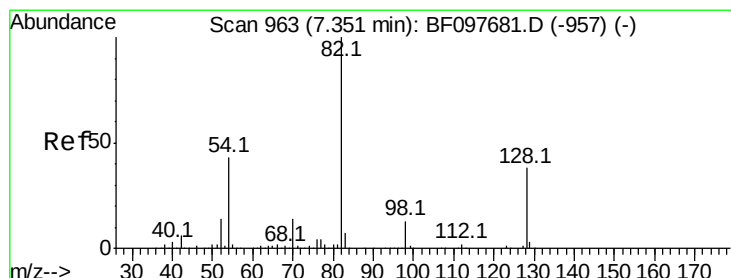
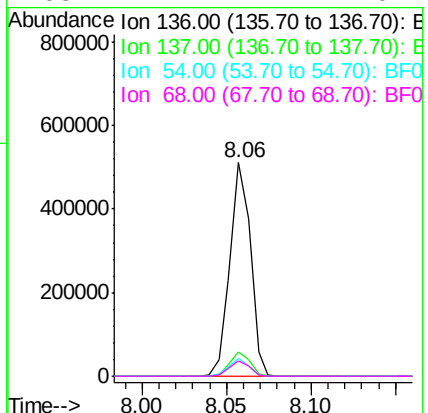
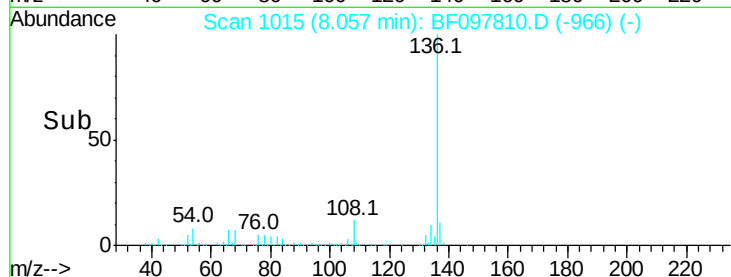
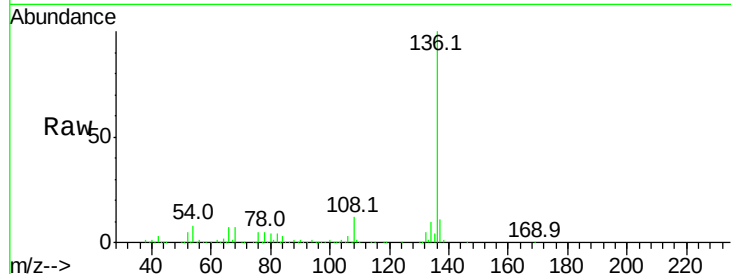
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampleId :
HY-SB441

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.1	8.5	12.7		
54	8.2	4.9	7.3#		
68	7.4	4.1	6.1#		

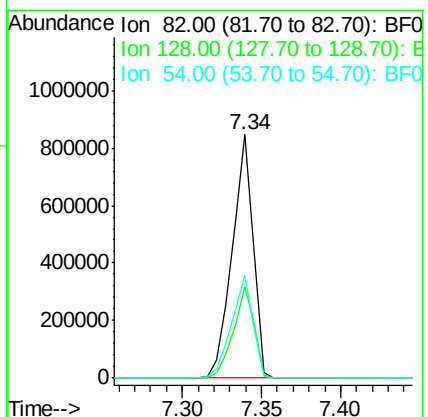
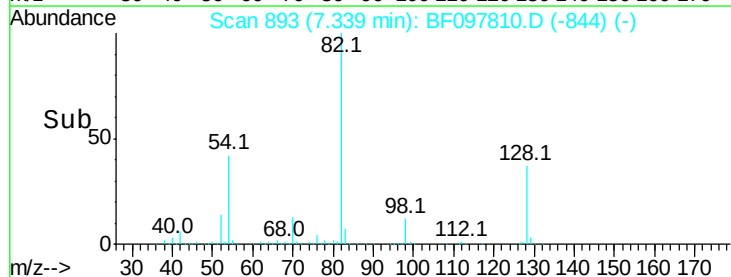
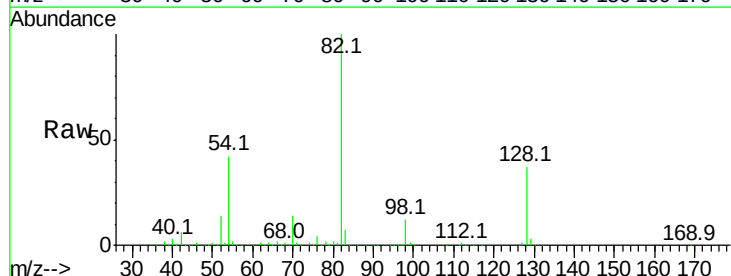
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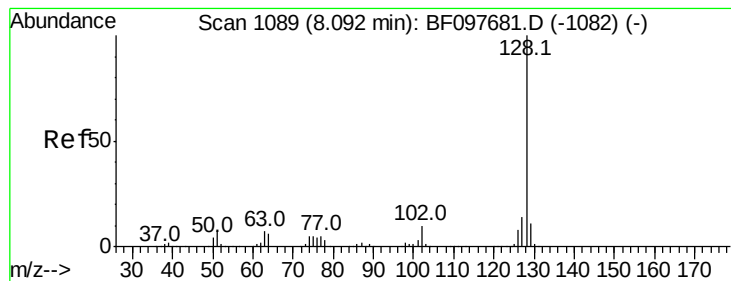
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#23
Nitrobenzene-d5
Concen: 97.479 ng
RT: 7.34 min Scan# 893
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	37.5	34.0	51.0		
54	42.2	42.2	63.2		





#31

Naphthalene

Concen: 8.902 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

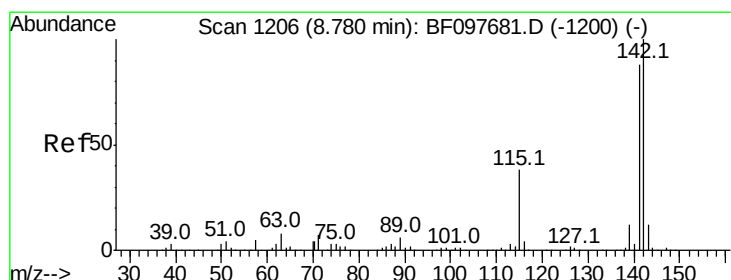
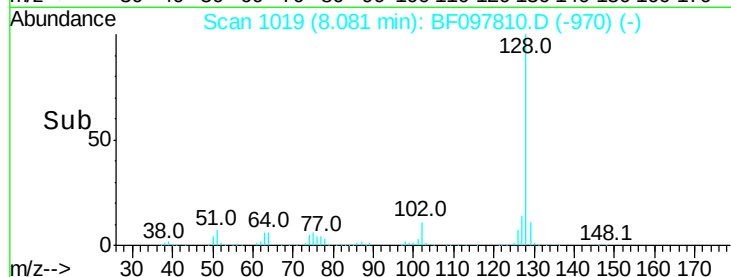
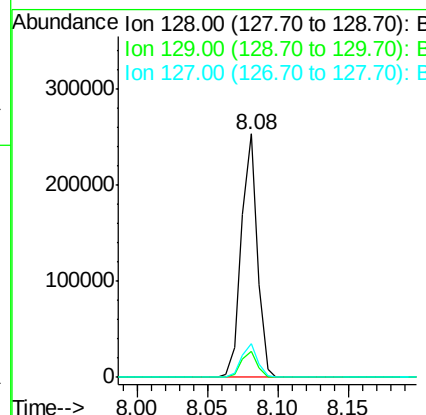
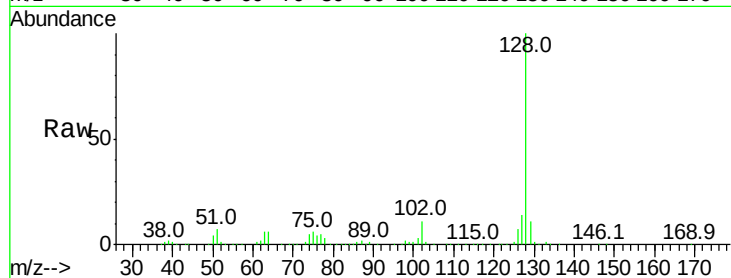
ClientSampleId :

HY-SB441

Tot Ion:	128	Resp:	200188
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.0	13.6
127	13.6	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 6.389 ng

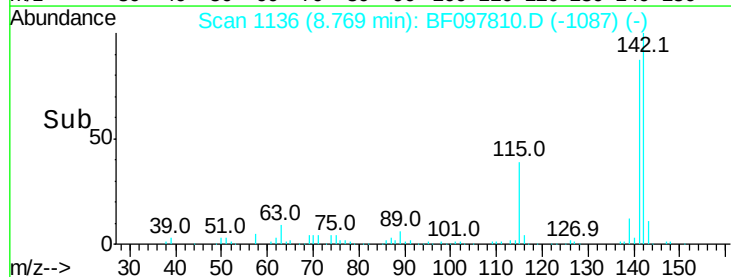
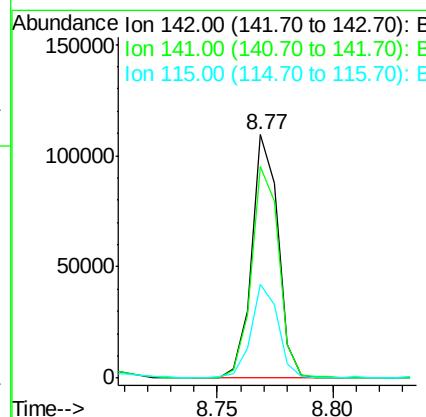
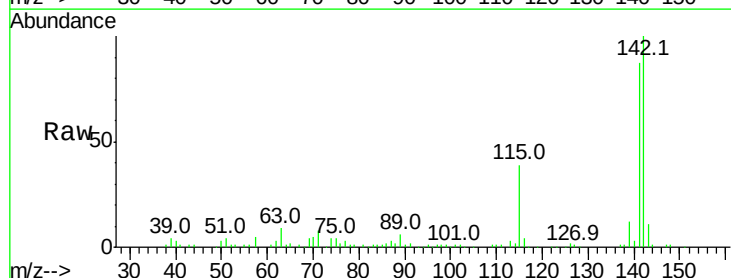
RT: 8.77 min Scan# 1136

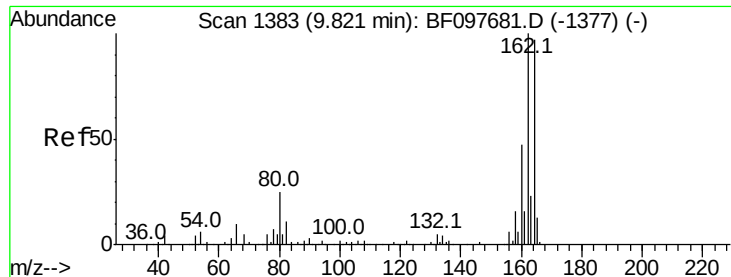
Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion:	142	Resp:	88084
Ion Ratio	Lower	Upper	
142	100		
141	87.0	71.3	106.9
115	38.6	27.1	40.7





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

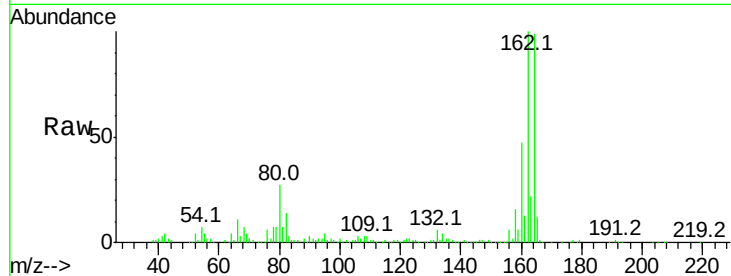
ClientSampleId :

HY-SB441

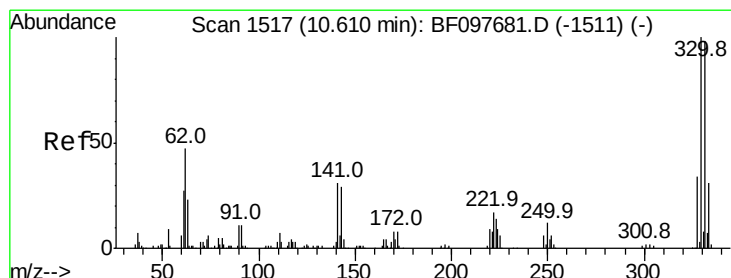
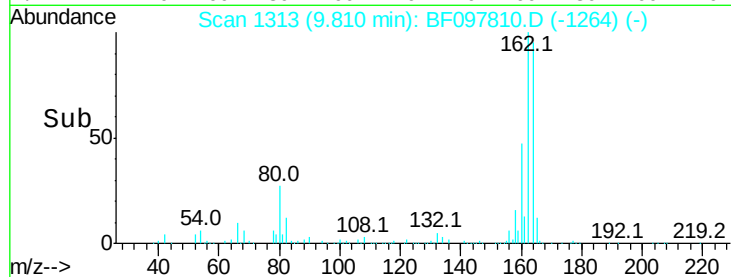
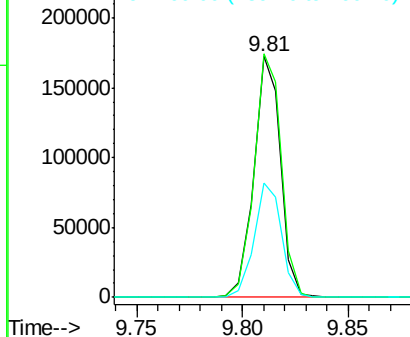
Tot Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.6	123.8
160	47.4	36.2	54.2

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 113.594 ng

RT: 10.60 min Scan# 1447

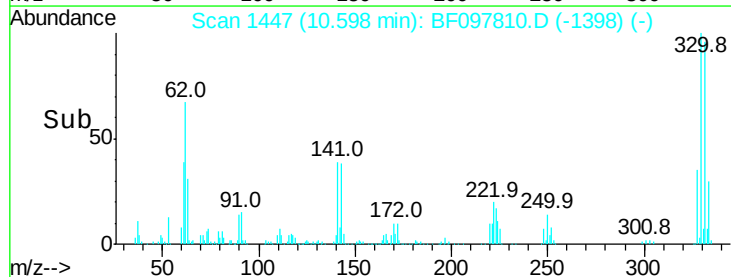
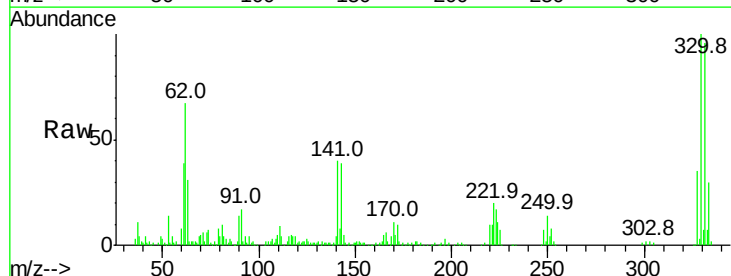
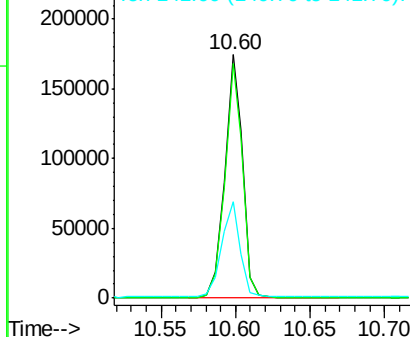
Delta R.T. -0.01 min

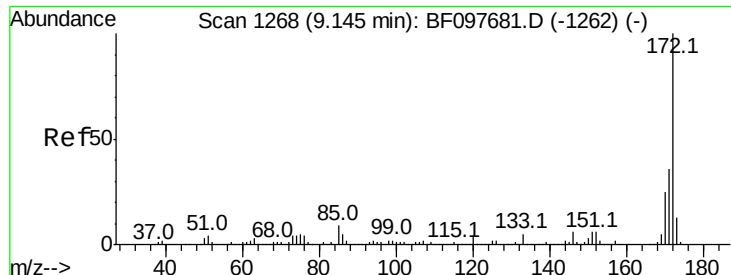
Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	39.9	31.4	47.2

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





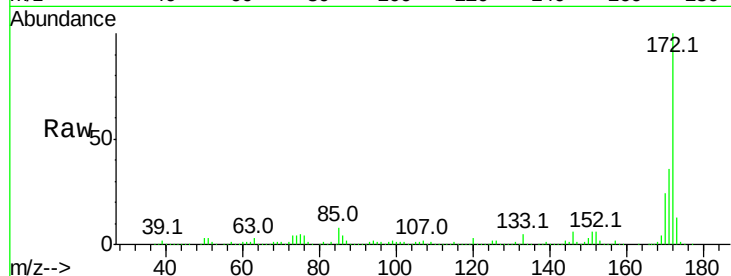
#44
2-Fluorobiphenyl
Concen: 95.779 ng
RT: 9.14 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampleId :
HY-SB441

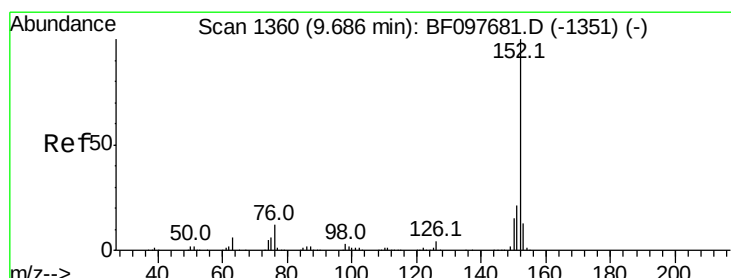
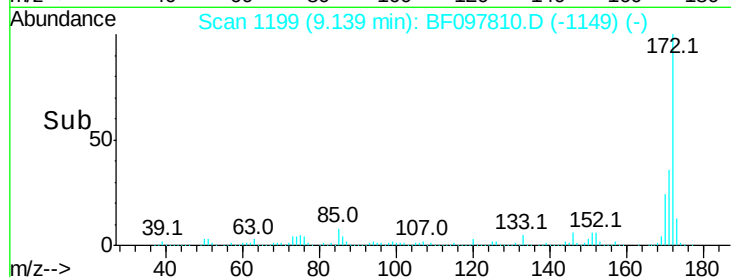
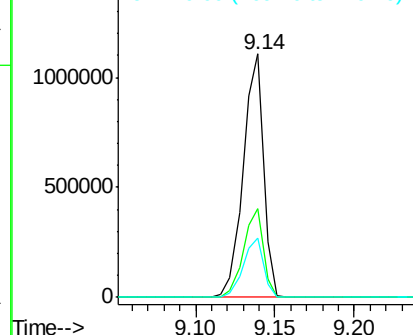
Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	36.4	29.6	44.4
170	24.2	19.8	29.8

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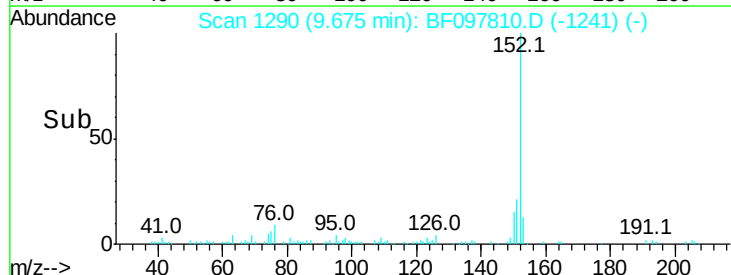
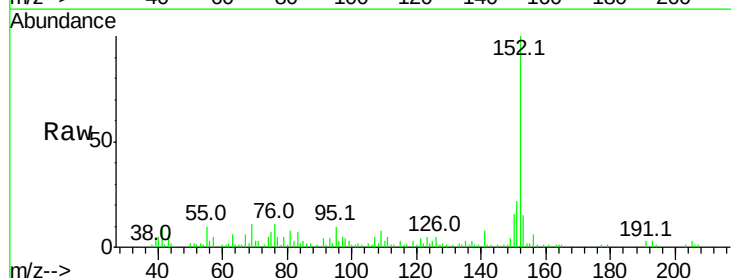
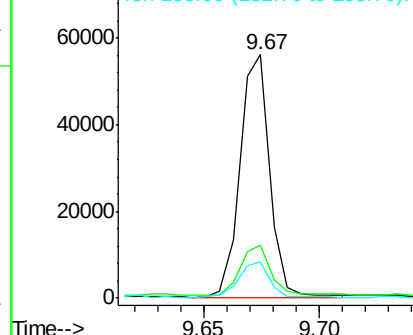
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

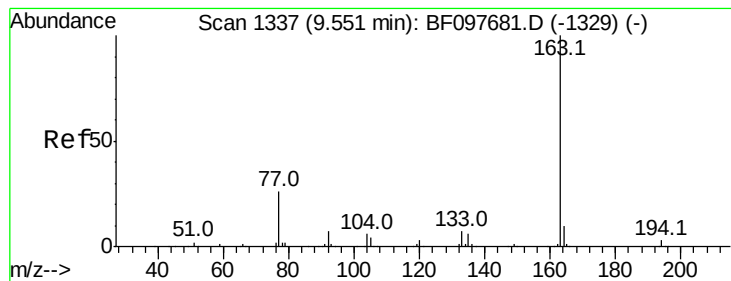


#48
Acenaphthylene
Concen: 3.213 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	21.7	16.8	25.2
153	15.1	10.8	16.2

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: 14.138 ng

RT: 9.53 min Scan# 1265

Delta R.T. -0.02 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

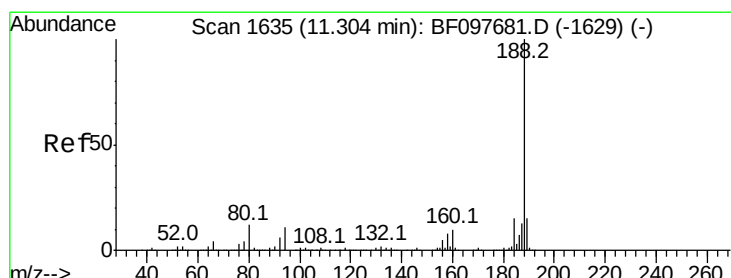
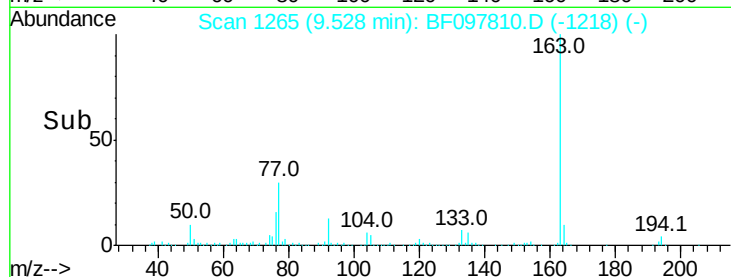
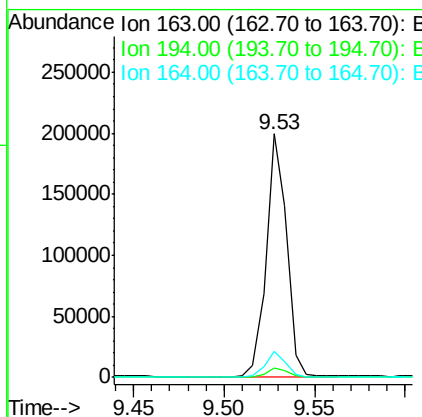
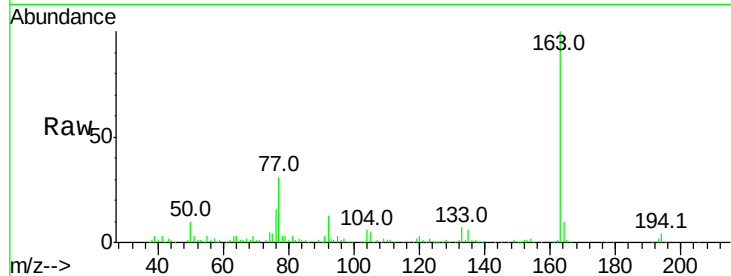
ClientSampled :

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Tot Ion:	163	Resp:	155270
Ion Ratio	Lower	Upper	
163	100		
194	3.7	2.6	4.0
164	10.5	8.4	12.6

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#63

Phenanthrene-d10

Concen: 20.000 ng

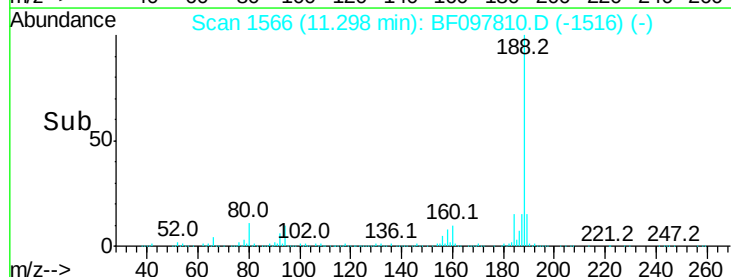
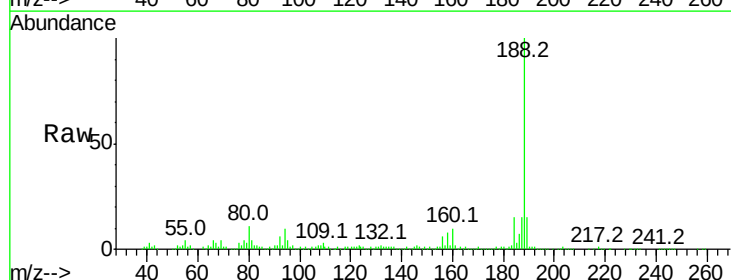
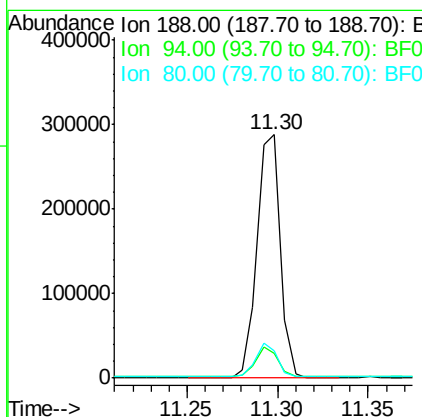
RT: 11.30 min Scan# 1566

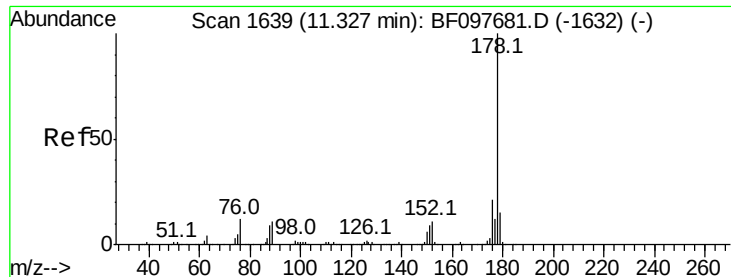
Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion:	188	Resp:	260631
Ion Ratio	Lower	Upper	
188	100		
94	10.4	9.4	14.2
80	11.3	10.2	15.2





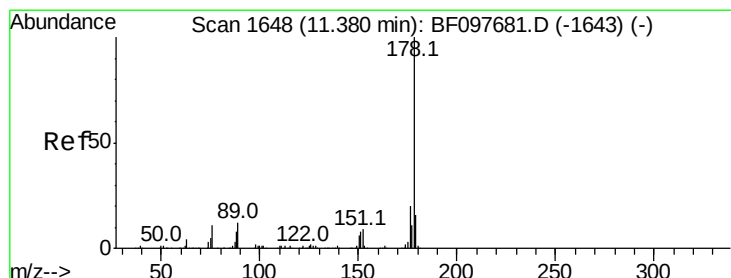
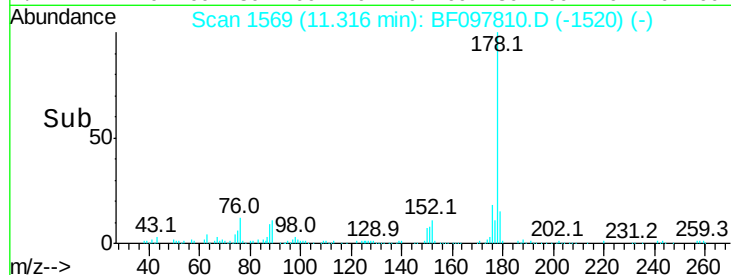
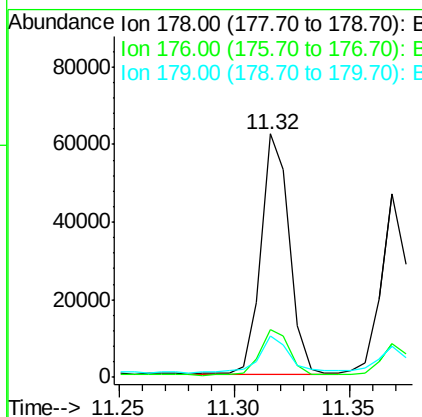
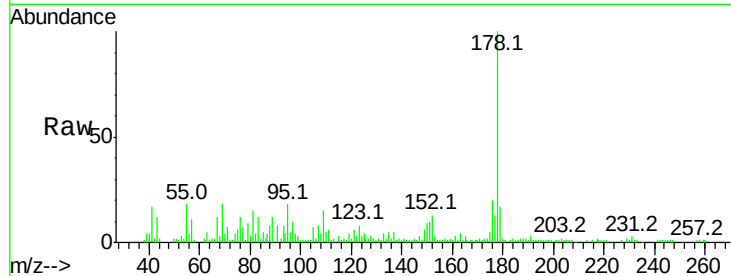
#70
Phenanthrene
Concen: 3.797 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampleId :
HY-SB441

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.2	24.4
179	16.8	12.6	19.0

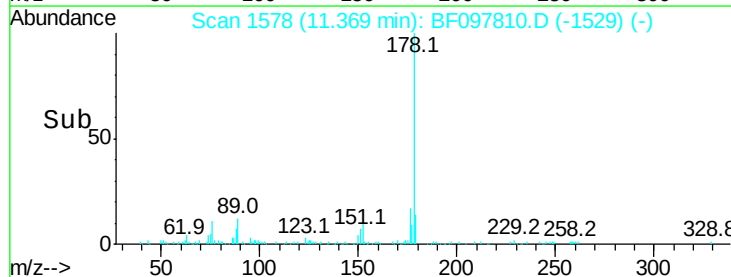
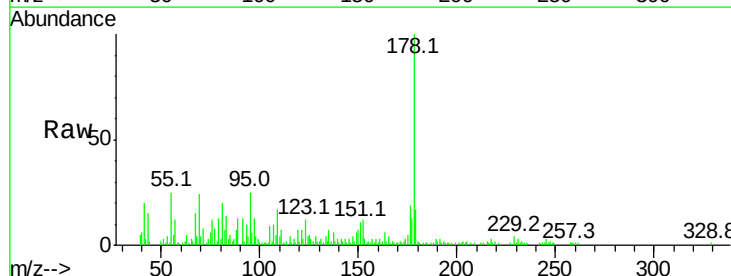
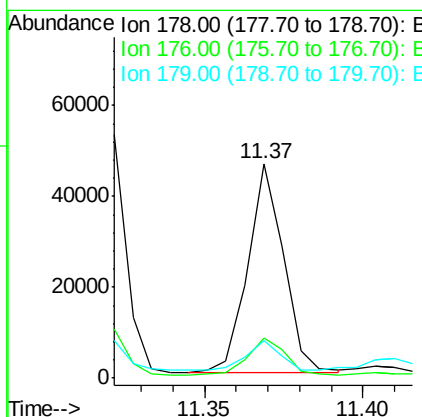
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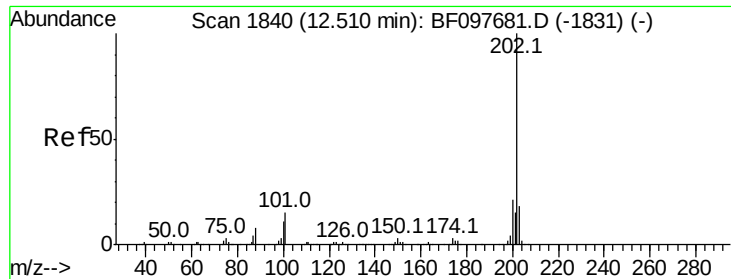
Sohil
8/18/2017 7:02:36 PM



#71
Anthracene
Concen: 2.578 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	17.3	12.7	19.1





#74

Fluoranthene

Concen: 3.311 ng

RT: 12.50 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

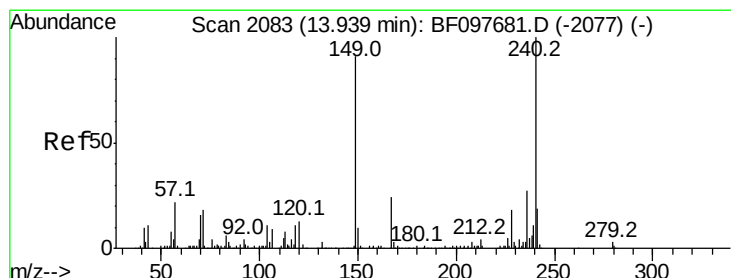
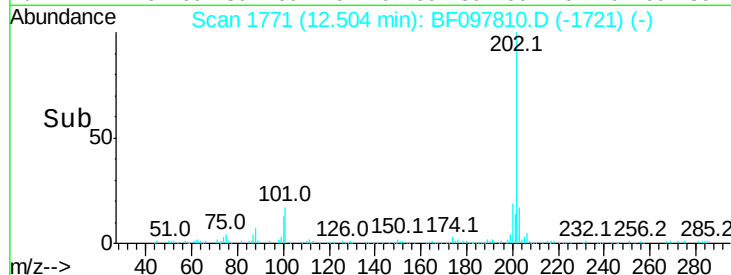
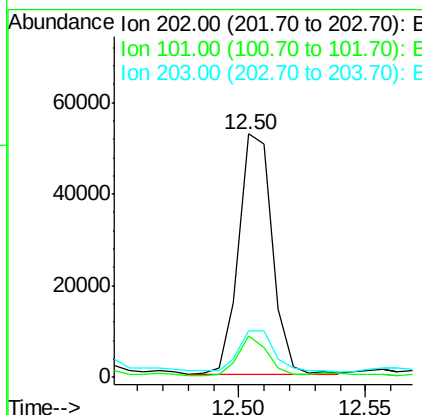
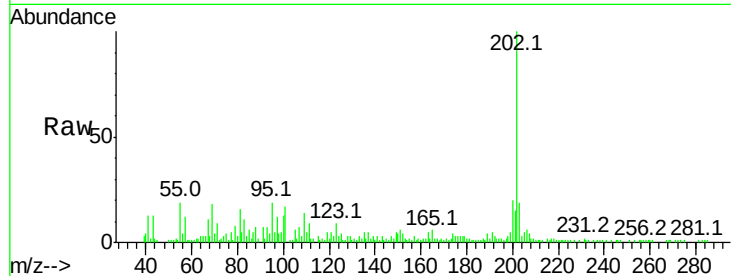
ClientSampled :

HY-SB441

Tot Ion:	202	Resp:	47993
Ion Ratio	Lower	Upper	
202	100		
101	17.2	0.0	33.2
203	19.1	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

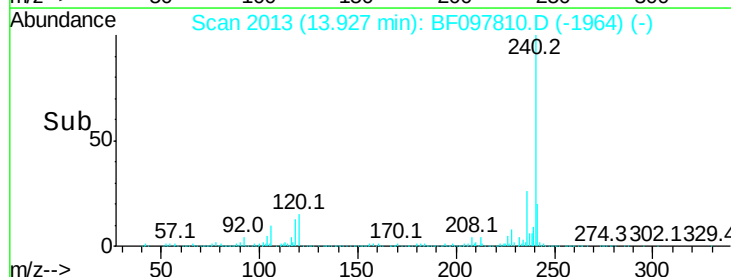
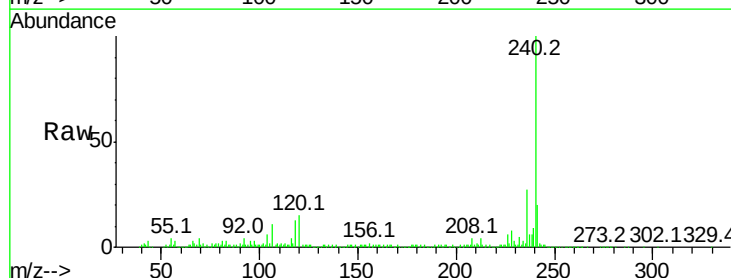
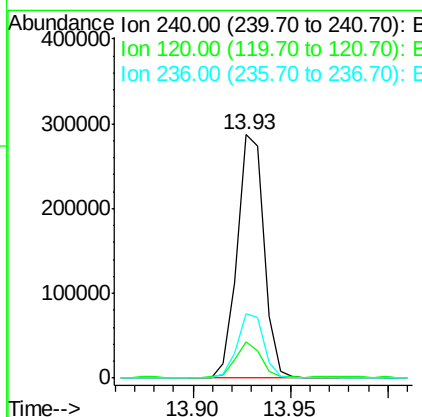
RT: 13.93 min Scan# 2013

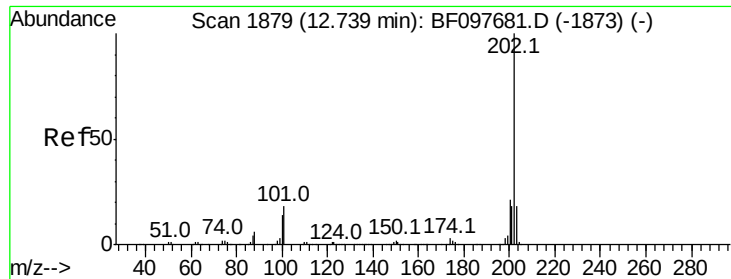
Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion:	240	Resp:	273495
Ion Ratio	Lower	Upper	
240	100		
120	15.1	5.8	8.8#
236	26.6	20.5	30.7





#77

Pvrene

Concen: 5.074 ng

RT: 12.73 min Scan# 1810

Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

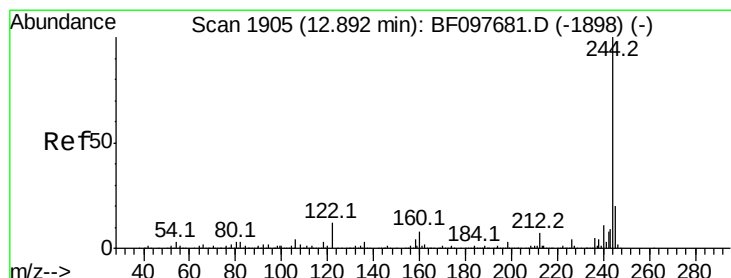
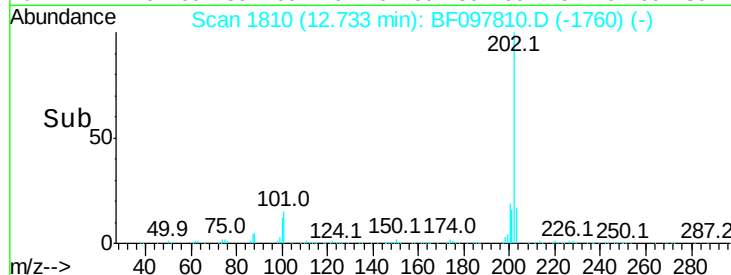
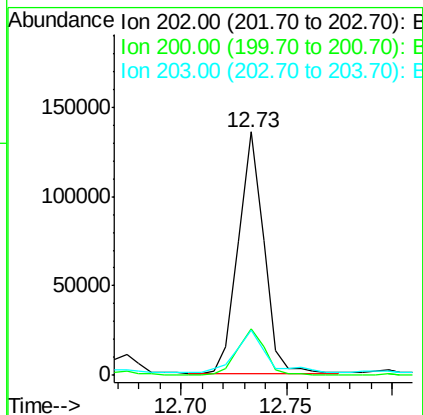
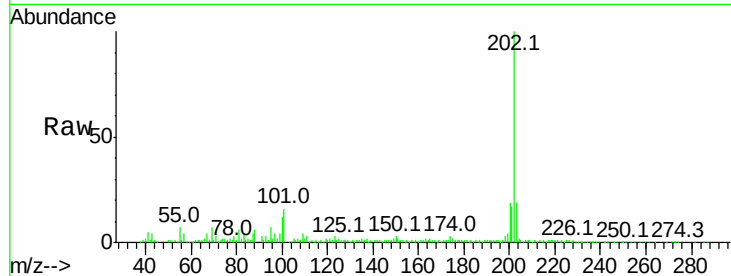
ClientSampled :

HY-SB441

Tot Ion:	202	Resp:	113499
Ion Ratio	Lower	Upper	
202	100		
200	19.3	17.6	26.4
203	18.7	14.4	21.6

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#78

Terphenyl-d14

Concen: 61.033 ng

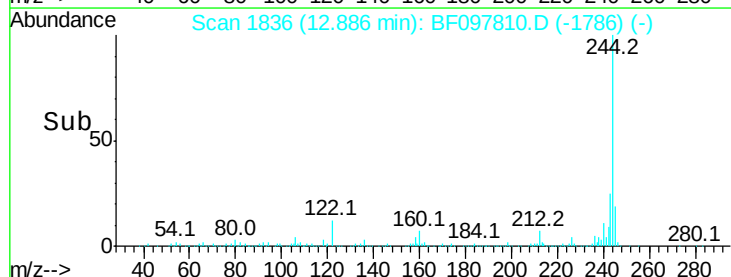
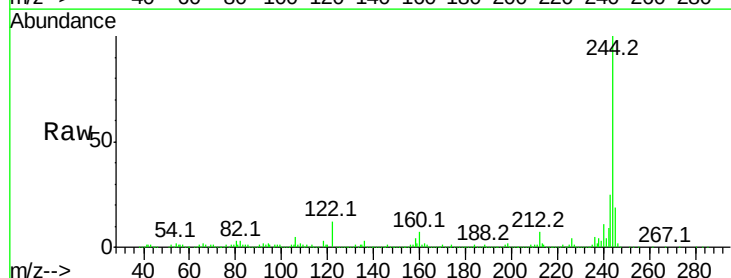
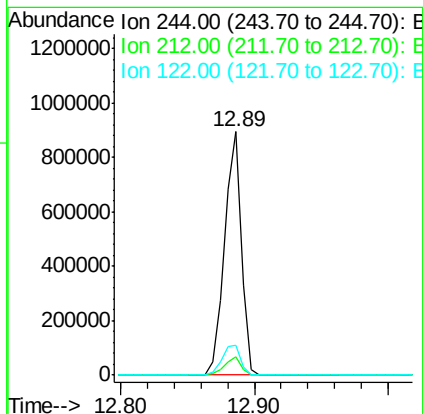
RT: 12.89 min Scan# 1836

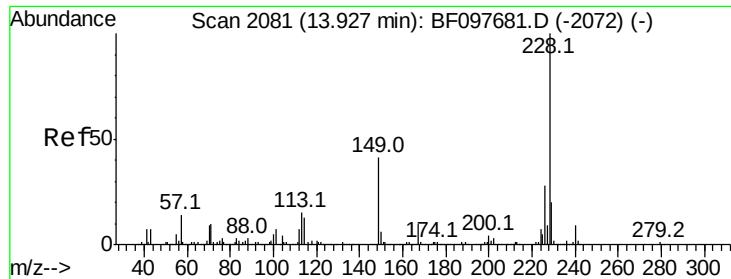
Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion:	244	Resp:	800457
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.0	9.0
122	12.4	10.3	15.5





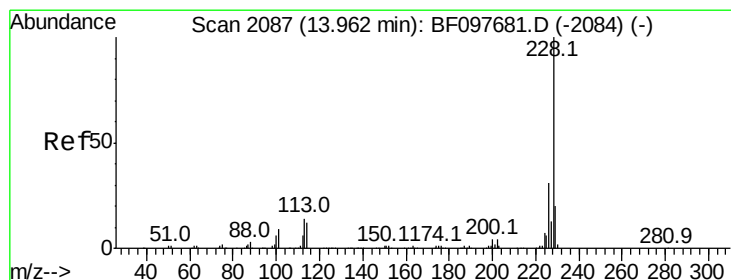
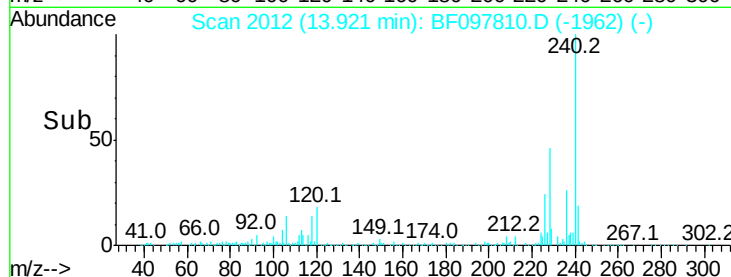
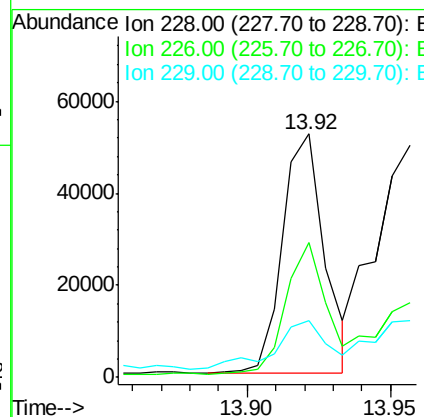
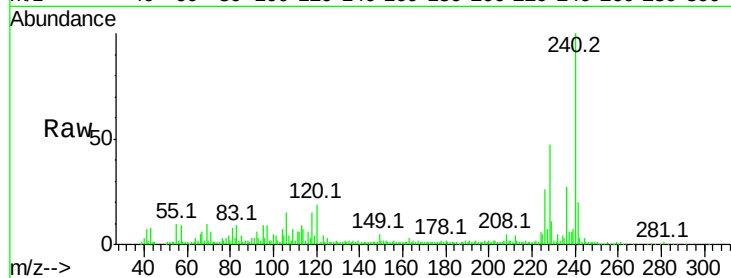
#80
Benzo(a)anthracene
Concen: 3.197 ng m
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampled :
HY-SB441

Tot Ion	Ratio	Lower	Upper
228	100		
226	55.1	22.6	33.8#
229	23.1	16.3	24.5

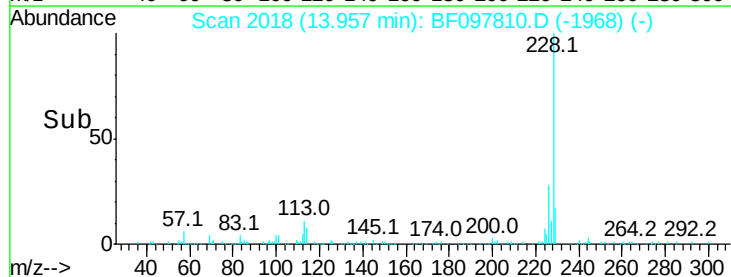
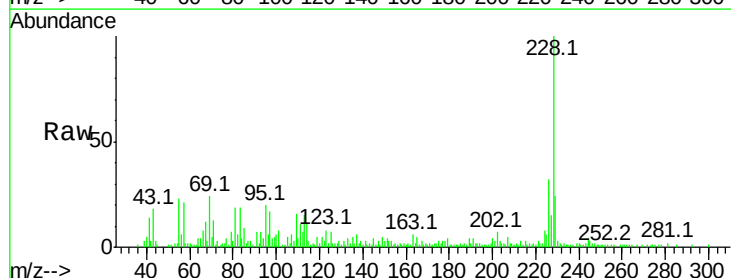
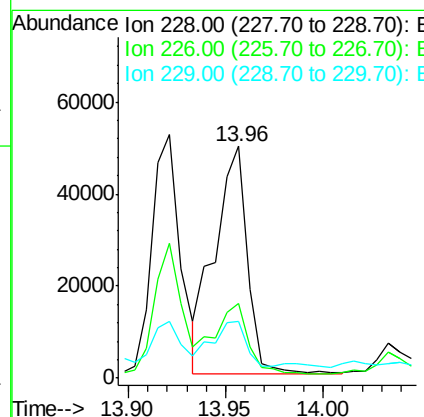
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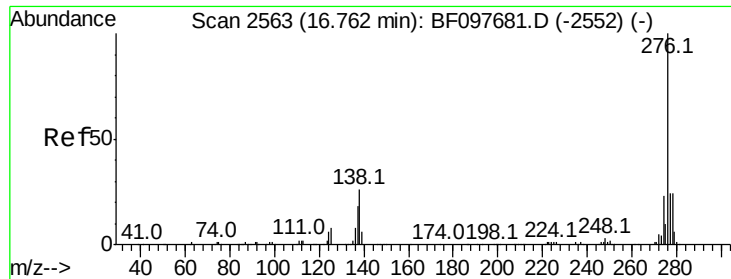
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#82
Chrysene
Concen: 3.561 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.9	37.3
229	24.2	15.8	23.6#





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.811 ng

RT: 16.75 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Instrument :

BNA_F

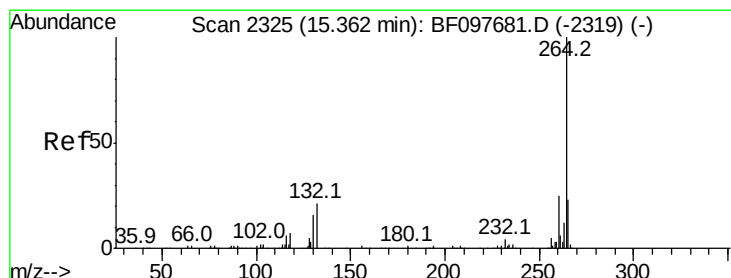
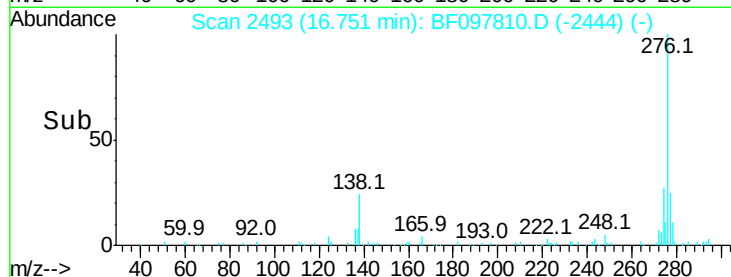
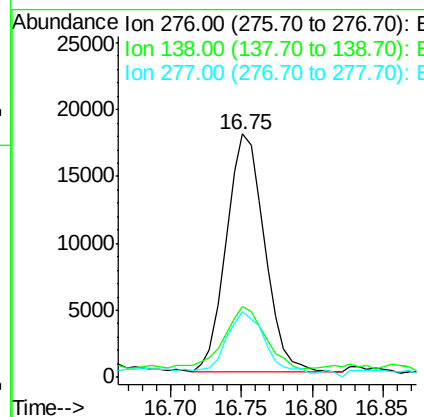
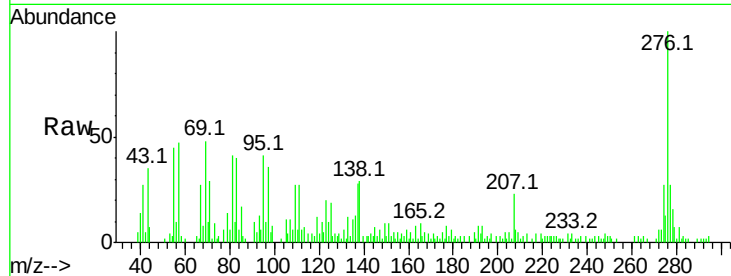
ClientSampled :

HY-SB441

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.4	27.8	41.6#
277	24.7	20.2	30.4

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#86

Perylene-d12

Concen: 20.000 ng

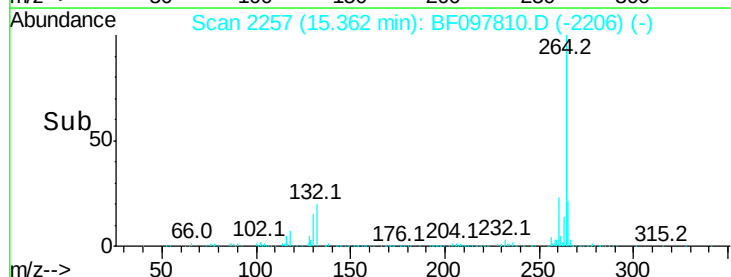
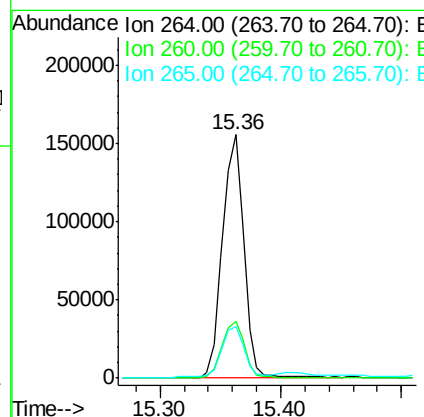
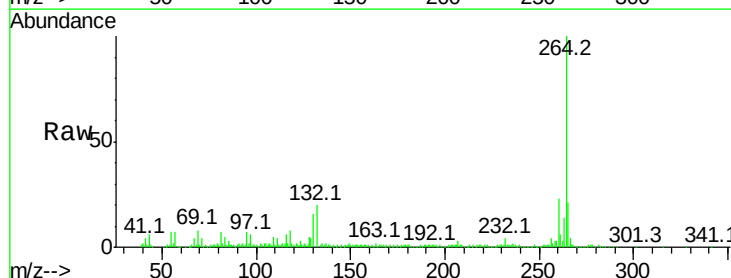
RT: 15.36 min Scan# 2257

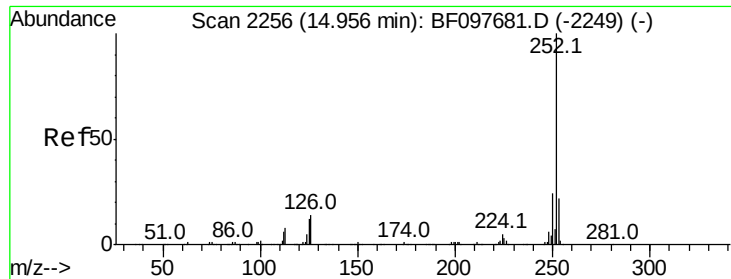
Delta R.T. 0.00 min

Lab File: BF097810.D

Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	21.3	17.2	25.8





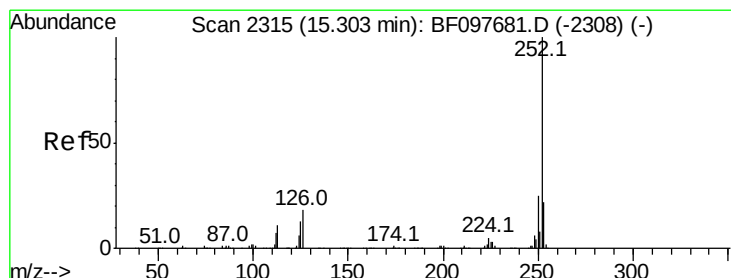
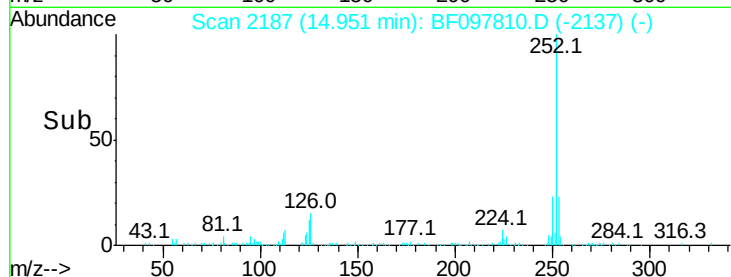
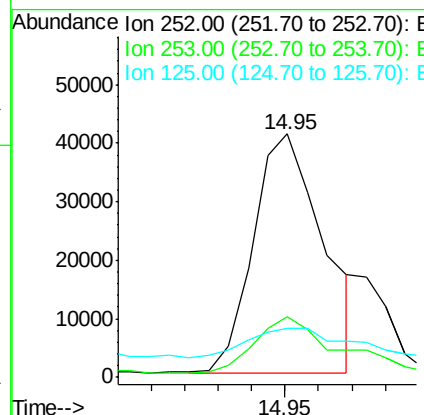
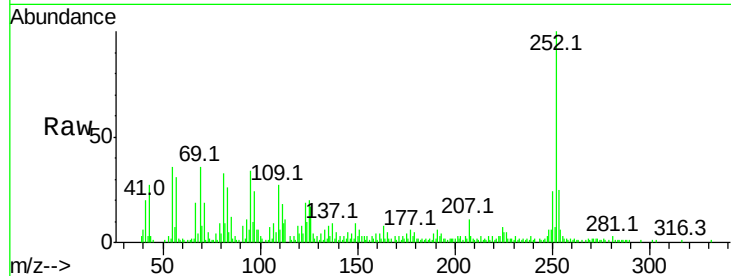
#87
Benzo(b)fluoranthene
Concen: 5.024 ng m
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Instrument :
BNA_F
ClientSampled :
HY-SB441

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.1	27.1
125	20.2	9.8	14.8

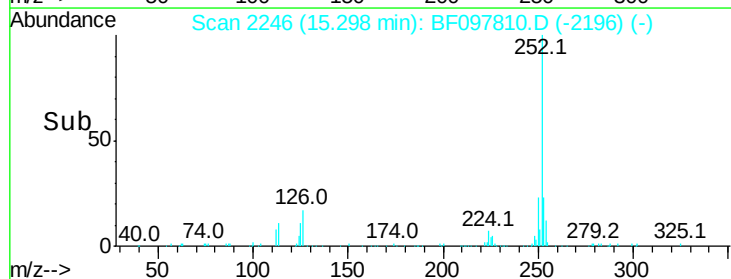
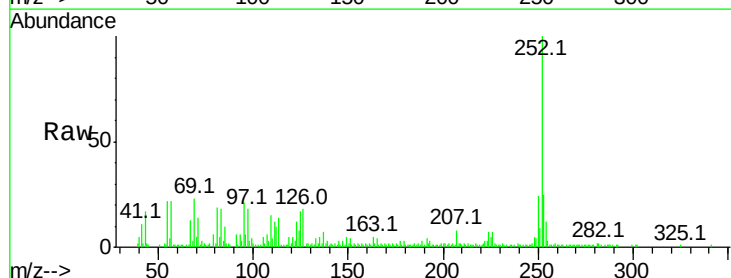
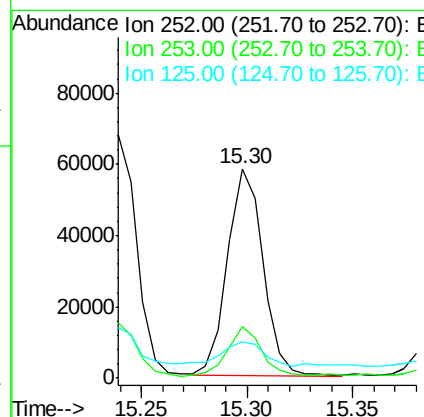
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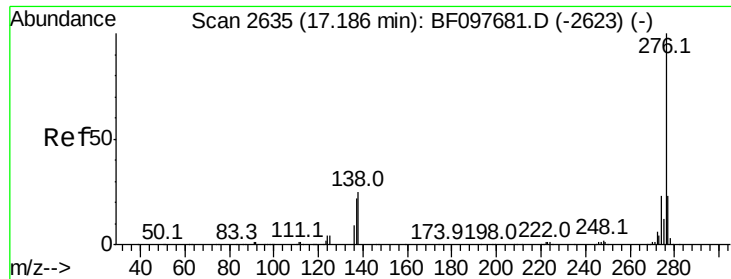
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#89
Benzo(a)pyrene
Concen: 6.402 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF097810.D
Acq: 18 Aug 2017 2:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.5	26.3
125	17.4	11.0	16.4





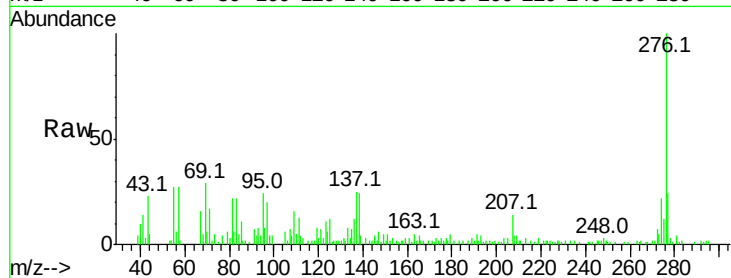
#91
 Benzo(a,h,i)perylene
 Concen: 6.269 ng
 RT: 17.17 min Scan# 2565
 Delta R.T. -0.01 min
 Lab File: BF097810.D
 Acq: 18 Aug 2017 2:34

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB441

Tot Ion:	276	Resp:	56232
Ion Ratio		Lower	Upper
276	100		
277	24.1	18.6	28.0
138	24.2	25.4	38.0

Manual Integrations
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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

