

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
 Data File : BF096866.D
 Acq On : 19 Jul 2017 1:39
 Operator : SJ/JU
 Sample : I4203-11DL 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Manual Integrations
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mohammad
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Quant Time: Jul 19 04:34:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	90912	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	329608	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	108285	20.00	ng	0.00
63) Phenanthrene-d10	11.10	188	164786	20.00	ng	0.00
75) Chrysene-d12	13.73	240	155136	20.00	ng	0.00
86) Perylene-d12	15.10	264	107988	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	130225	21.54	ng	0.00
7) Phenol-d6	6.25	99	164978	22.74	ng	0.00
23) Nitrobenzene-d5	7.16	82	74531	14.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.42	330	19540	21.14	ng	0.00
44) 2-Fluorobiphenyl	8.96	172	160062	23.35	ng	0.00
78) Terphenyl-d14	12.69	244	102471	11.46	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.90	128	528581	33.852	ng	99
37) 2-Methylnaphthalene	8.59	142	214195	21.517	ng	98
45) 1,1'-Biphenyl	9.06	154	60473	6.512	ng	98
48) Acenaphthylene	9.49	152	62757	5.760	ng	96
51) Acenaphthene	9.66	154	121225	18.833	ng	98
54) Dibenzofuran	9.83	168	182595	20.243	ng	99
57) Fluorene	10.17	166	183331	27.505	ng	99
70) Phenanthrene	11.13	178	819117	91.420	ng	98
71) Anthracene	11.18	178	205457	22.679	ng	97
72) Carbazole	11.33	167	116660	13.298	ng	98
74) Fluoranthene	12.32	202	742157	86.536	ng	99
77) Pyrene	12.54	202	596225	42.347	ng	99
80) Benzo(a)anthracene	13.72	228	284148	29.396	ng	98
82) Chrysene	13.76	228	238150	25.026	ng	97
85) Indeno(1,2,3-cd)pyrene	16.39	276	71591	11.073	ng	93
87) Benzo(b)fluoranthene	14.73	252	218621m	33.567	ng	
88) Benzo(k)fluoranthene	14.75	252	74364m	12.058	ng	
89) Benzo(a)pyrene	15.05	252	140390	23.502	ng	# 95
90) Dibenzo(a,h)anthracene	16.39	278	18744	3.410	ng	# 81
91) Benzo(a,h,i)perylene	16.77	276	63249	10.746	ng	97

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

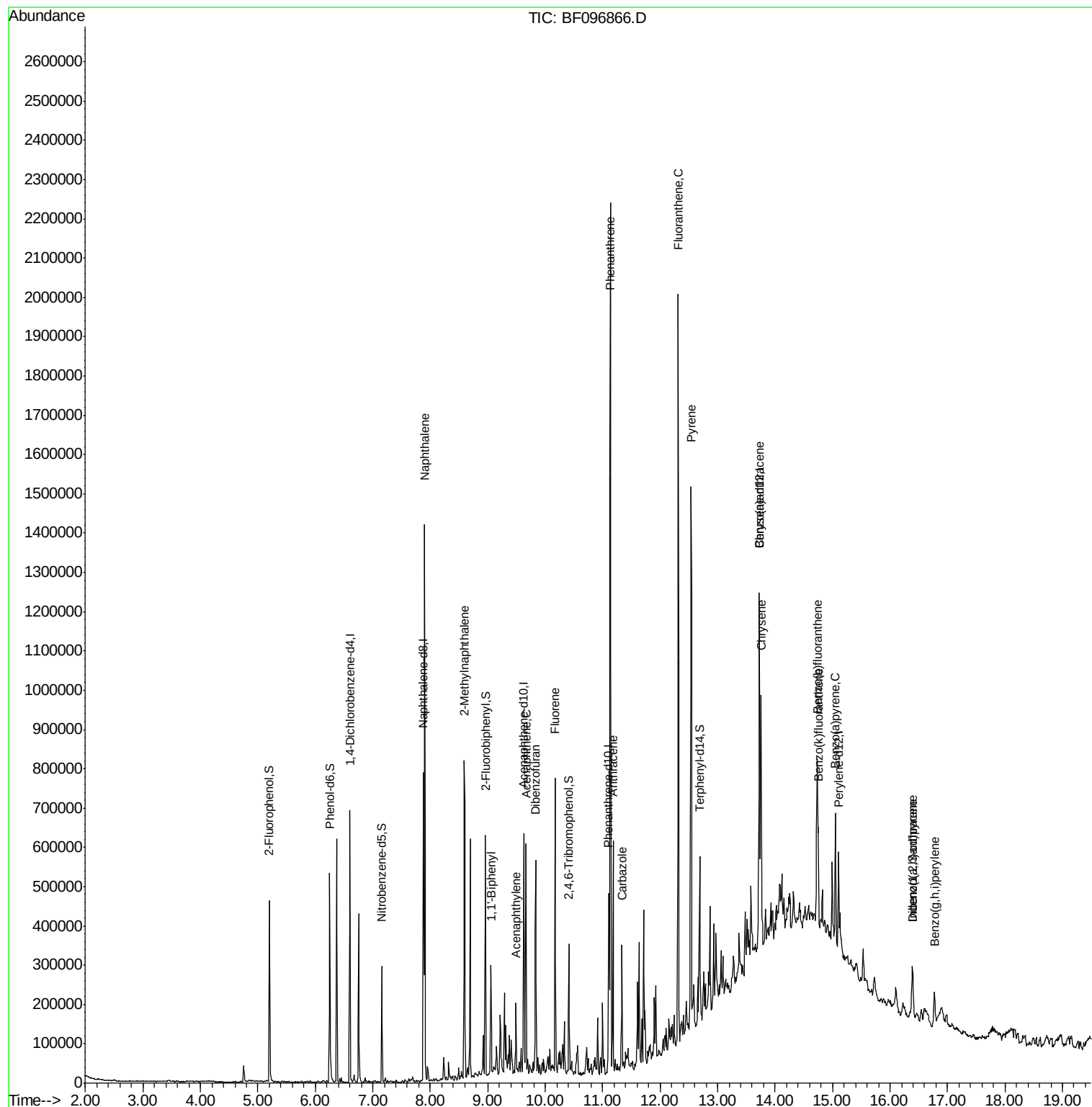
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
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ALS Vial : 33 Sample Multiplier: 1

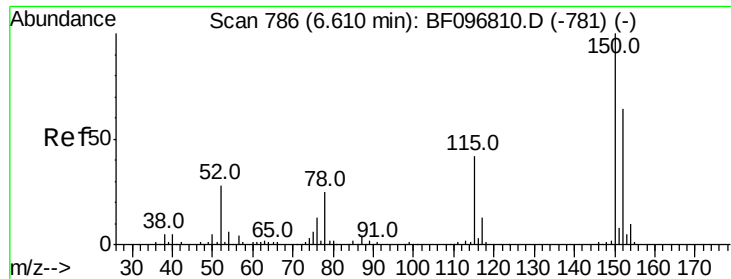
Instrument :
BNA_F
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NB-SB03ADL

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#1

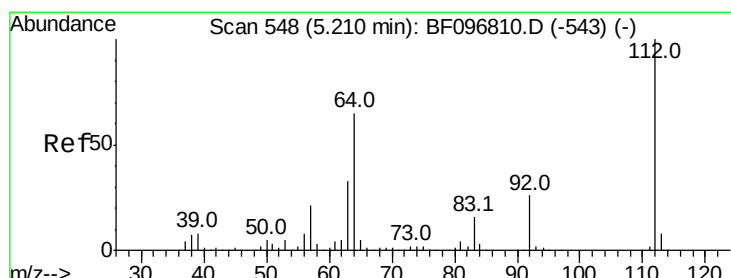
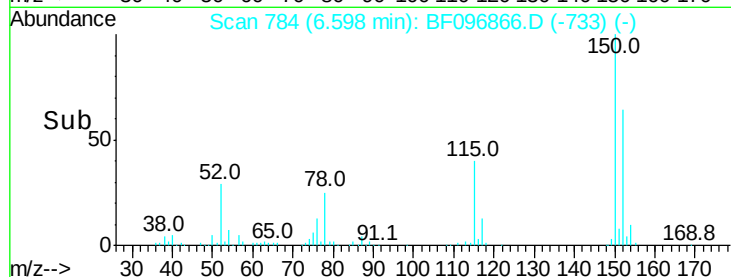
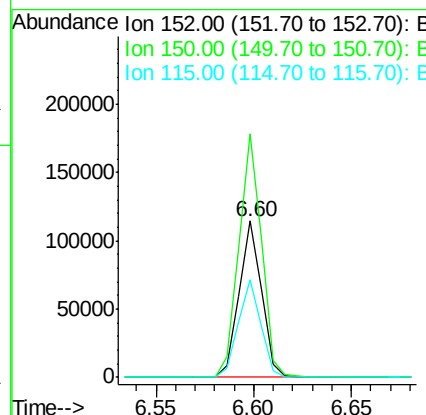
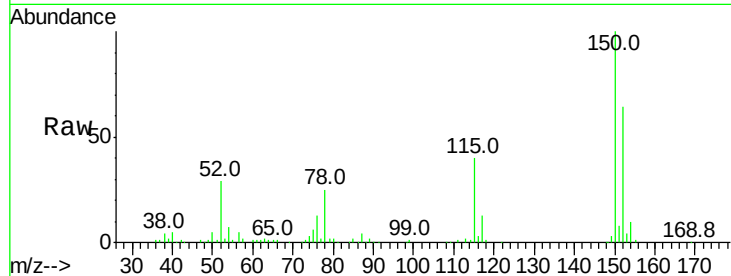
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.60 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.2	189.2
115	62.8	52.2	78.2

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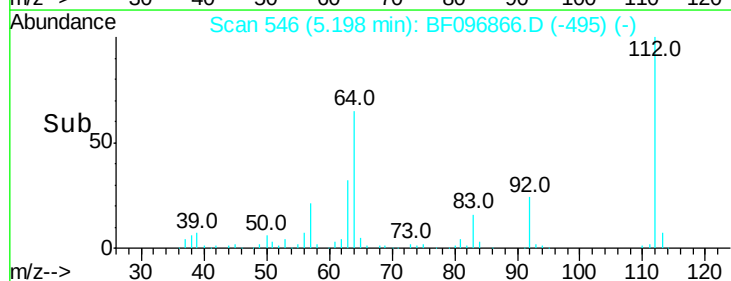
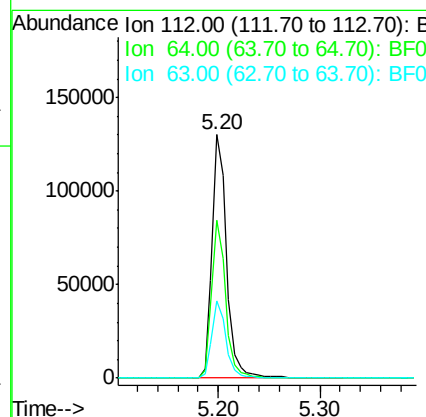
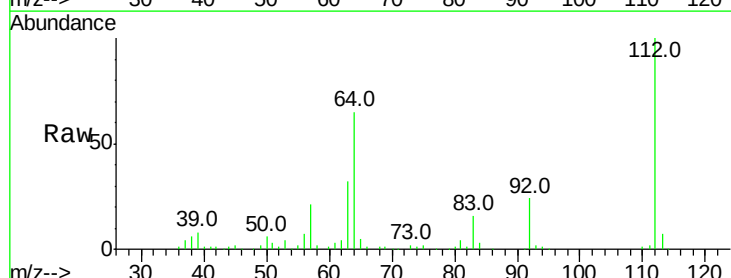
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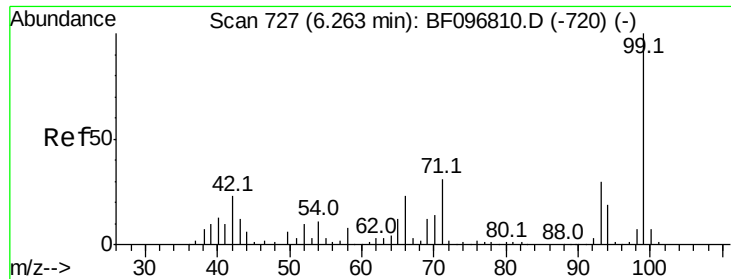


#5

2-Fluorophenol
Concen: 21.538 ng
RT: 5.20 min Scan# 546
Delta R.T. -0.00 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.9	46.0	69.0
63	31.5	23.4	35.0





#7

Phenol-d6

Concen: 22.737 ng

RT: 6.25 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

ClientSampleId :

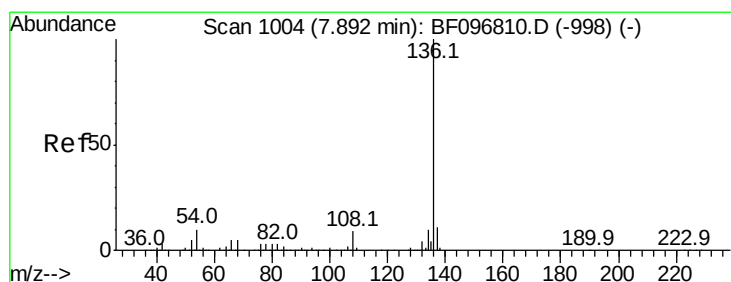
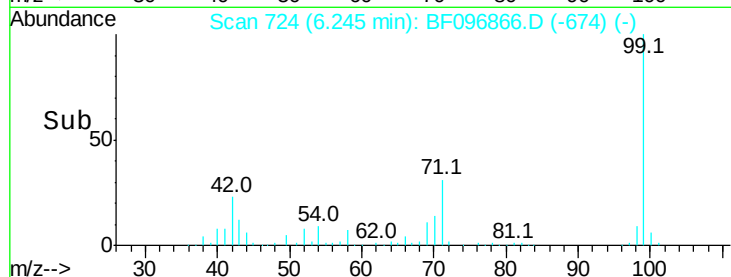
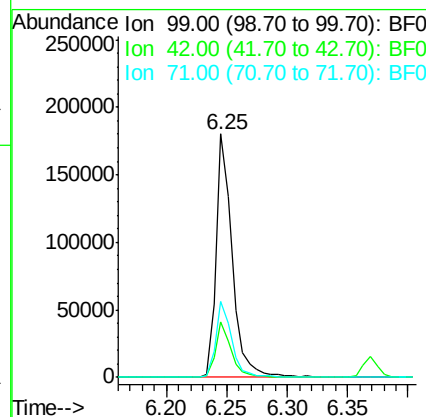
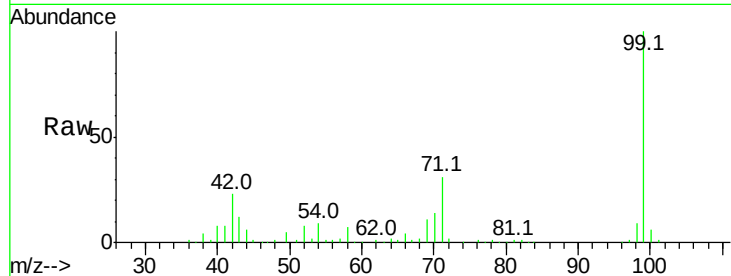
NB-SB03ADL

Tot Ion: 99 Resp: 164978

Ion	Ratio	Lower	Upper
99	100		
42	23.0	13.5	20.3#
71	31.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.88 min Scan# 1002

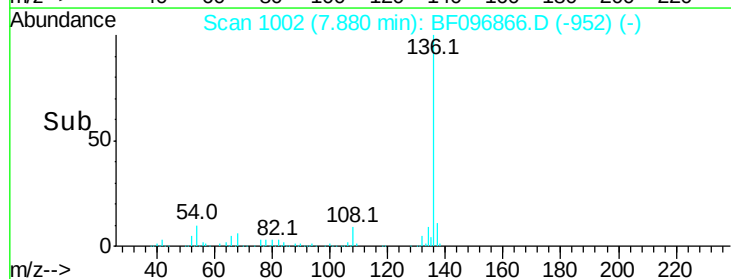
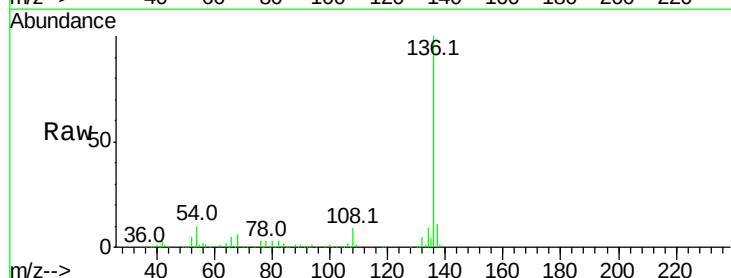
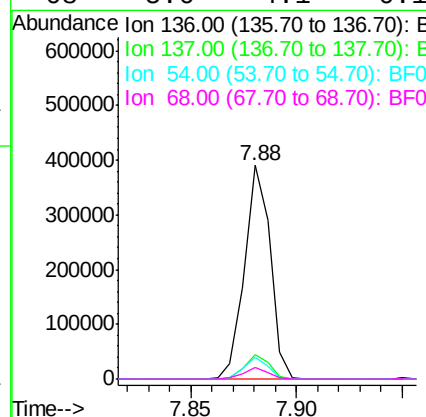
Delta R.T. -0.01 min

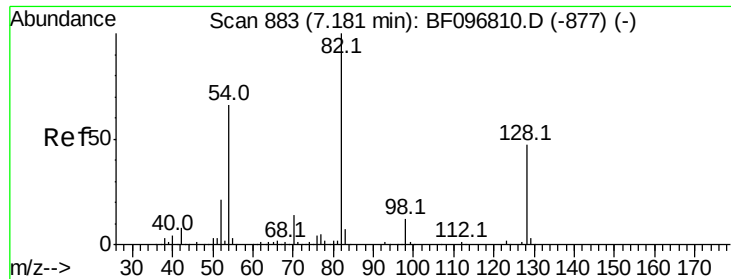
Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion: 136 Resp: 329608

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	9.9	4.9	7.3#
68	5.6	4.1	6.1





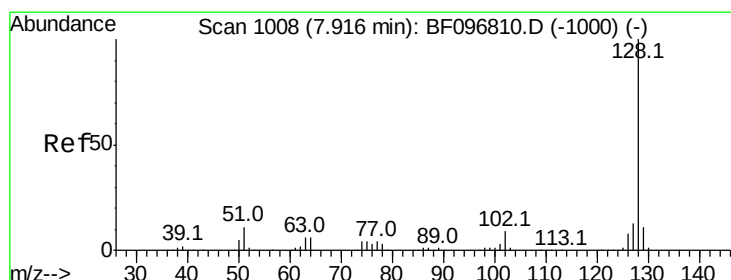
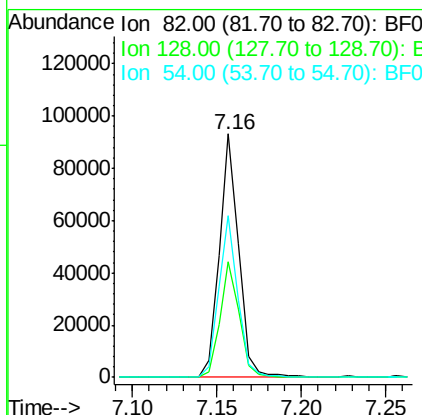
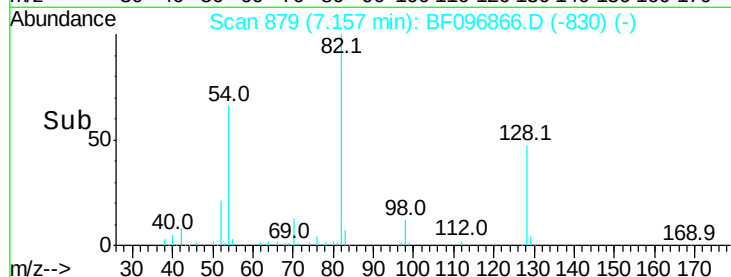
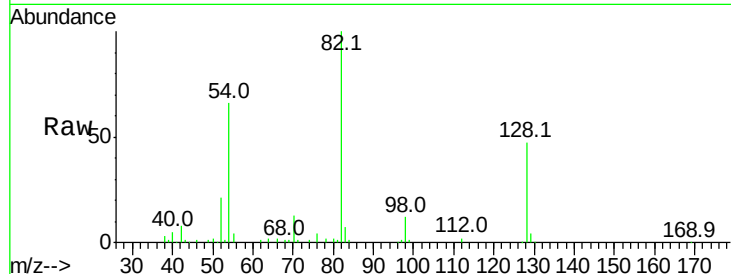
#23
 Nitrobenzene-d5
 Concen: 14.006 ng
 RT: 7.16 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: BF096866.D
 Acq: 19 Jul 2017 1:39

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.4	34.0	51.0
54	66.4	42.2	63.2#

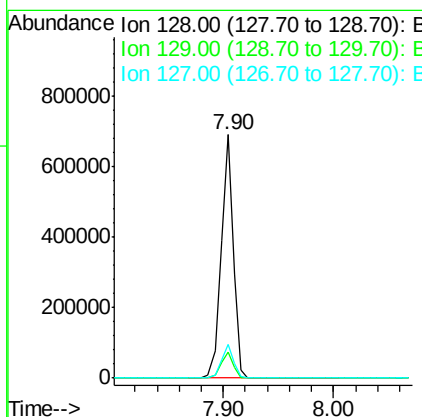
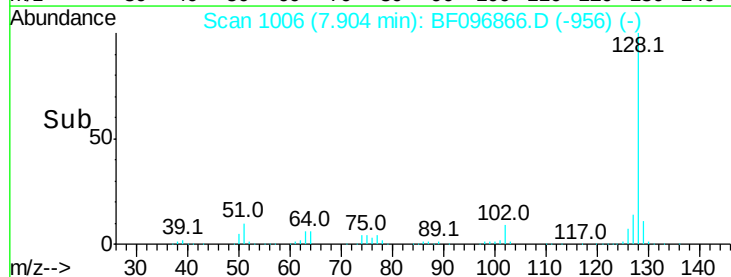
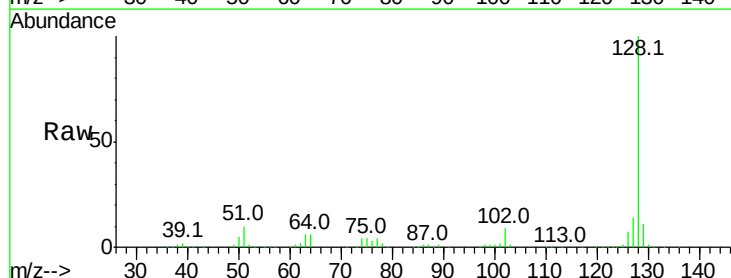
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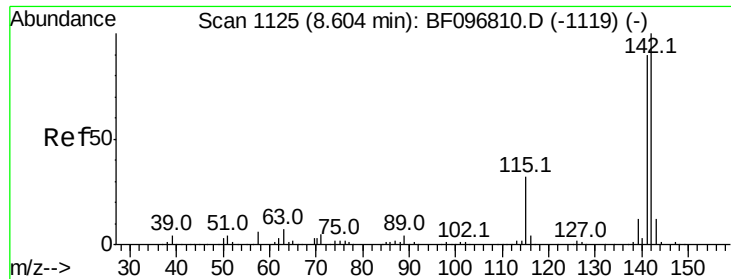
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#31
 Naphthalene
 Concen: 33.852 ng
 RT: 7.90 min Scan# 1006
 Delta R.T. -0.01 min
 Lab File: BF096866.D
 Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.6	10.8	16.2





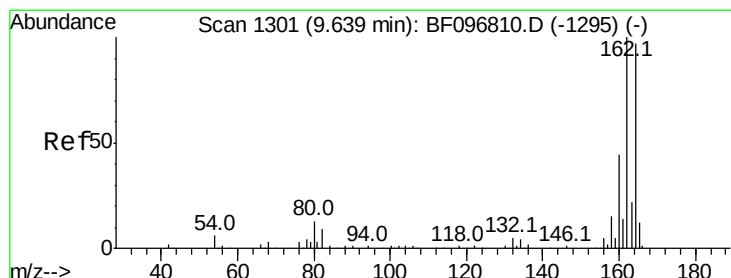
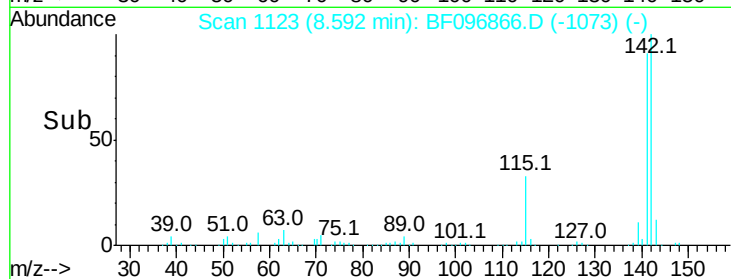
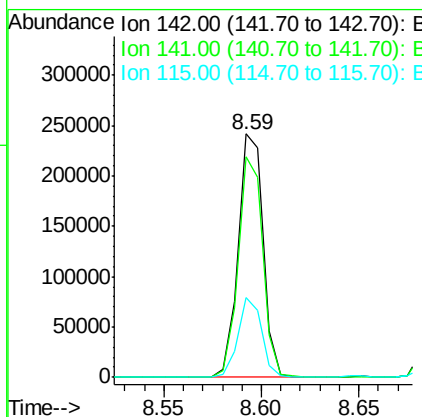
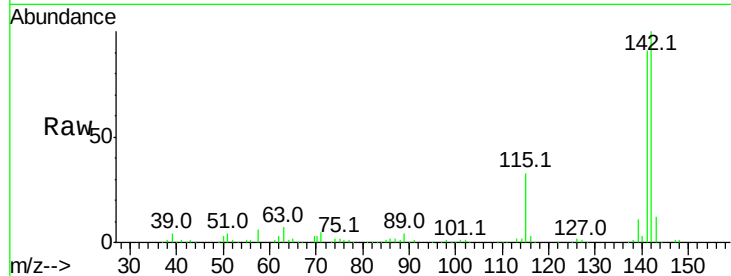
#37
2-Methylnaphthalene
Concen: 21.517 ng
RT: 8.59 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.3	106.9
115	32.6	27.1	40.7

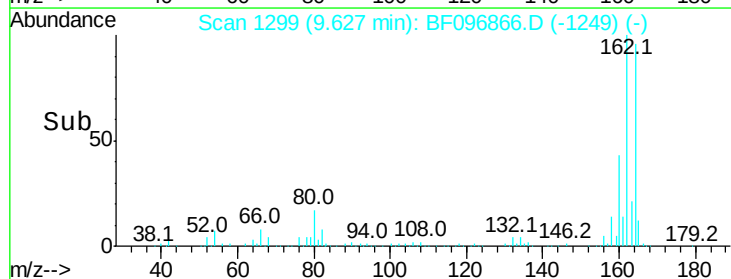
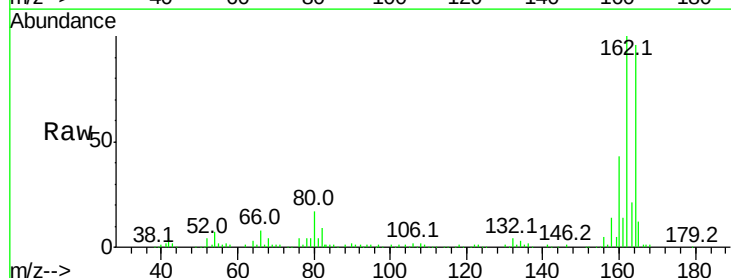
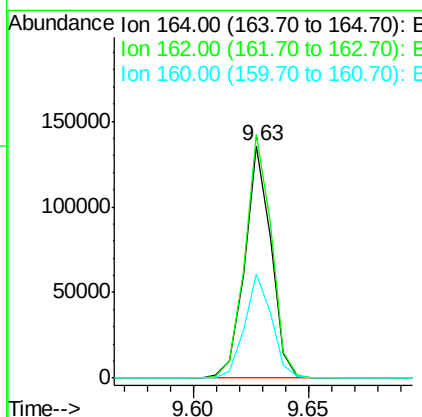
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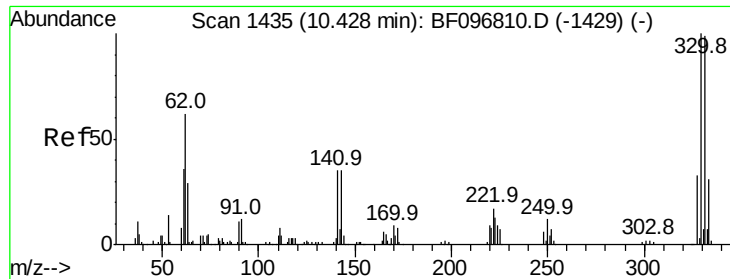
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.63 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	82.6	123.8
160	44.5	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 21.140 ng

RT: 10.42 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

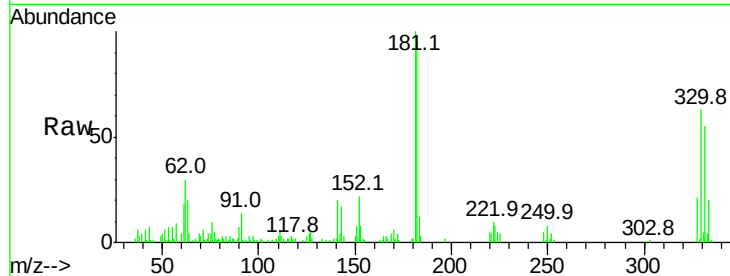
ClientSampleId :

NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.6	76.6	115.0
141	44.9	31.4	47.2

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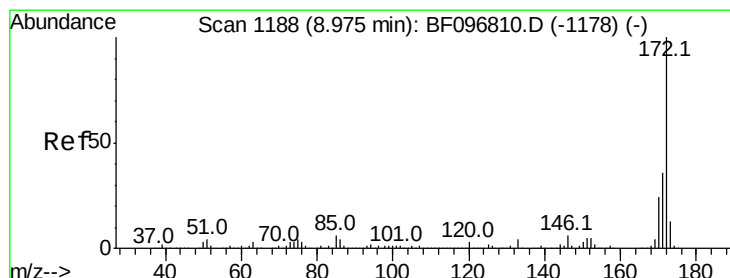
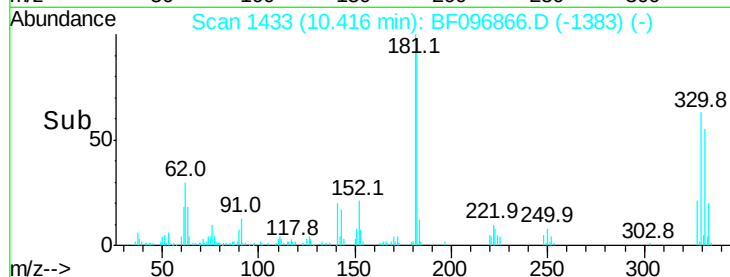
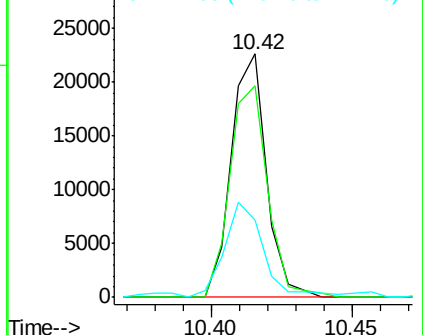


Abundance

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: 23.354 ng

RT: 8.96 min Scan# 1185

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

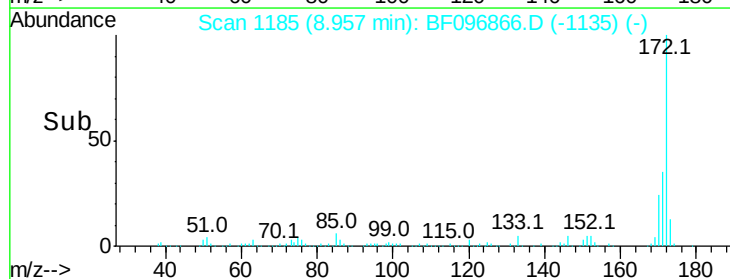
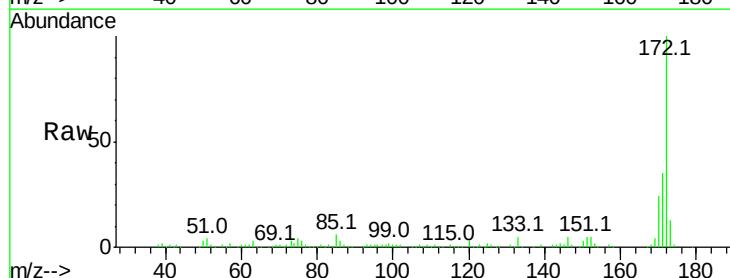
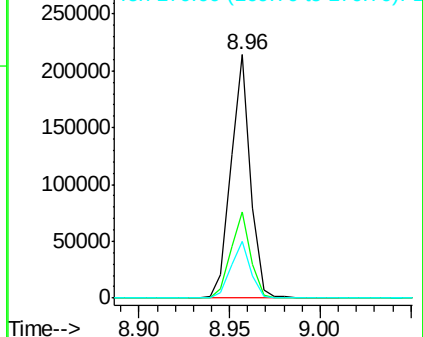
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	23.5	19.8	29.8

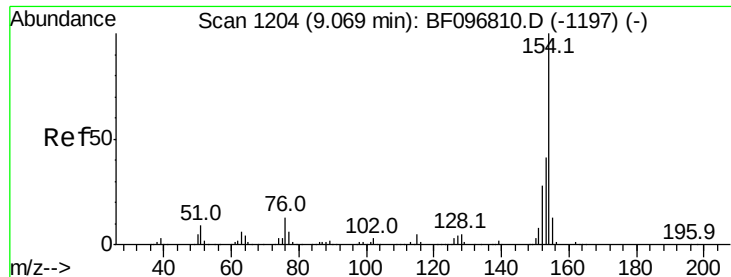
Abundance

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





#45

1,1'-Biphenyl

Concen: 6.512 ng

RT: 9.06 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

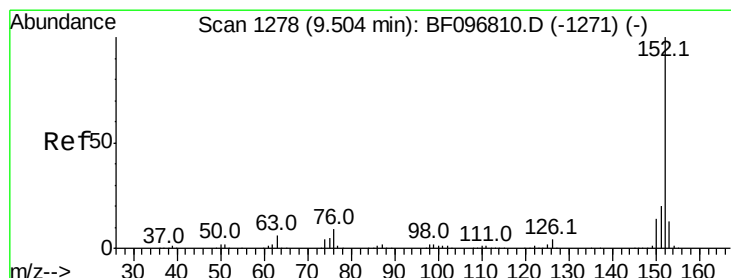
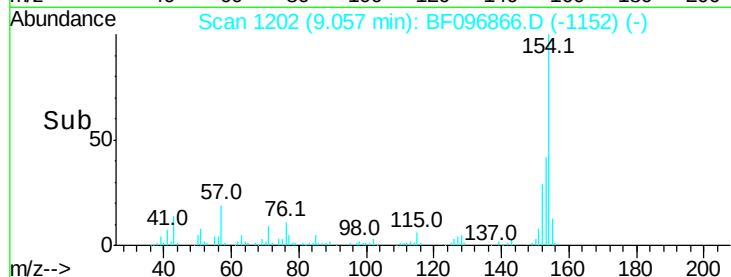
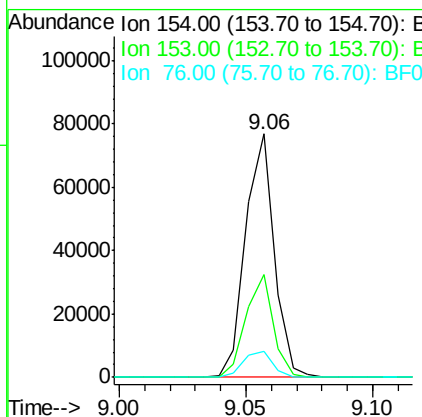
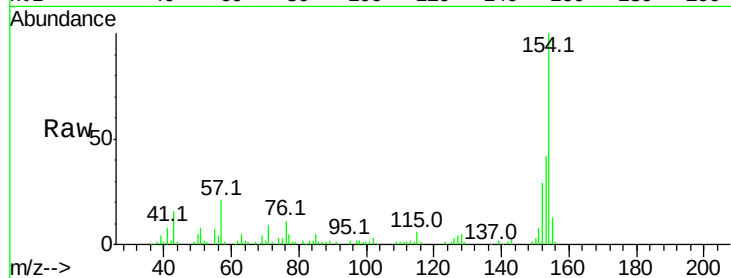
ClientSampleId :

NB-SB03ADL

Tot Ion:	154	Resp:	60473
Ion Ratio	Lower	Upper	
154	100		
153	42.2	21.2	61.2
76	10.6	0.0	29.9

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#48

Acenaphthylene

Concen: 5.760 ng

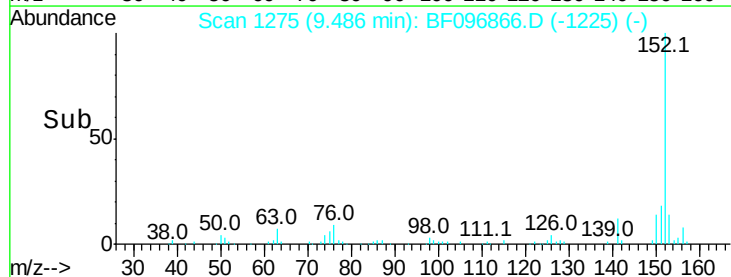
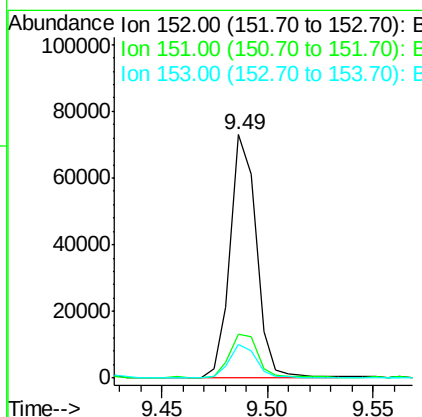
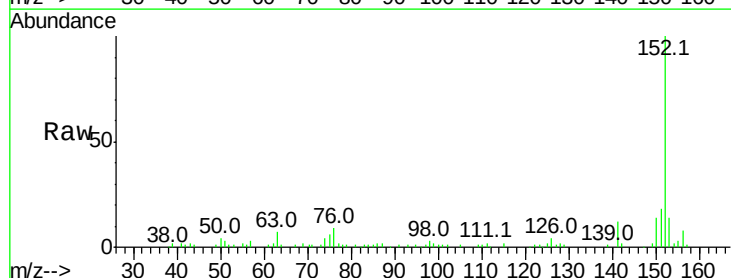
RT: 9.49 min Scan# 1275

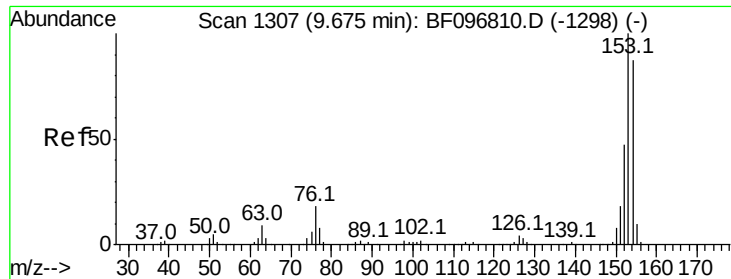
Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion:	152	Resp:	62757
Ion Ratio	Lower	Upper	
152	100		
151	18.1	16.8	25.2
153	13.9	10.8	16.2





#51

Acenaphthene

Concen: 18.833 ng

RT: 9.66 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

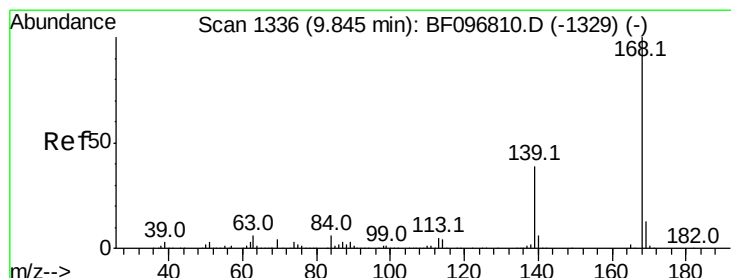
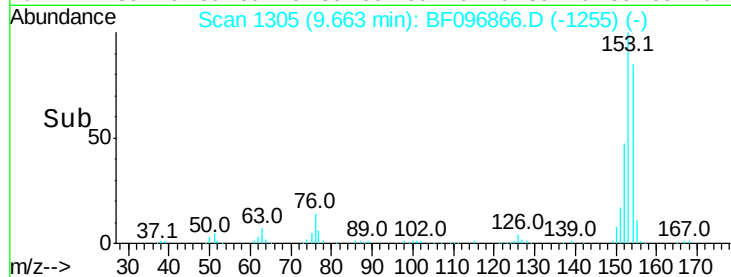
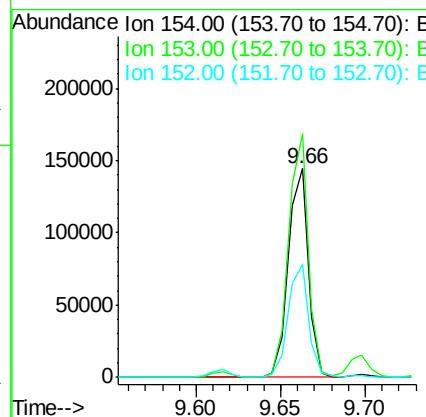
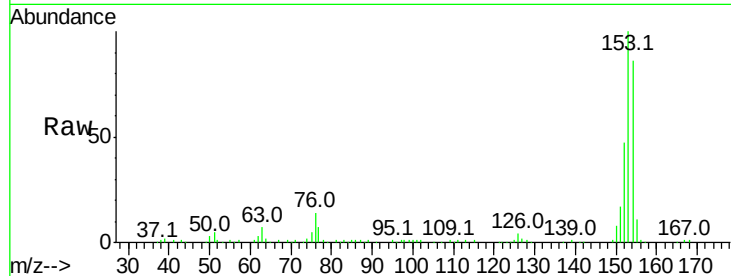
ClientSampleId :

NB-SB03ADL

Tot Ion:	154	Resp:	121225
Ion Ratio	Lower	Upper	
154	100		
153	116.7	90.5	135.7
152	54.4	43.6	65.4

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#54

Dibenzofuran

Concen: 20.243 ng

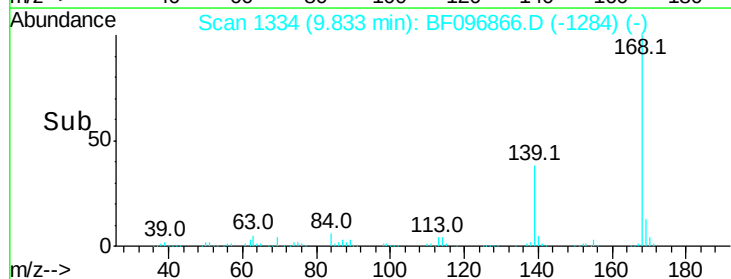
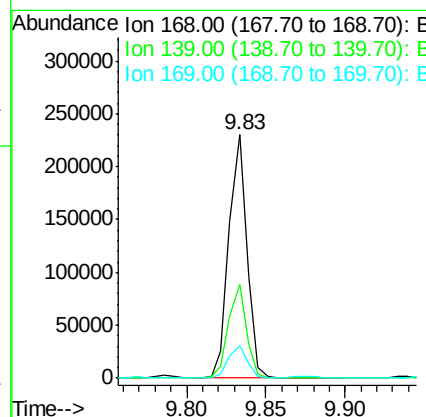
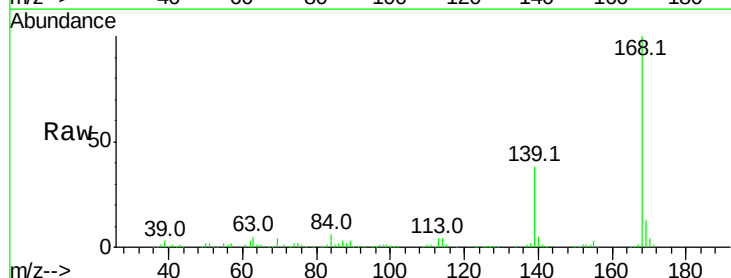
RT: 9.83 min Scan# 1334

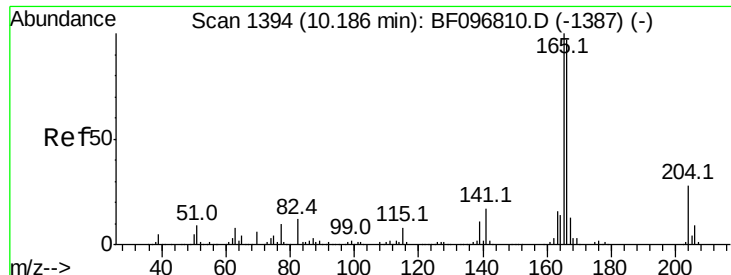
Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion:	168	Resp:	182595
Ion Ratio	Lower	Upper	
168	100		
139	38.4	30.6	45.8
169	13.1	10.8	16.2





#57

Fluorene

Concen: 27.505 ng

RT: 10.17 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

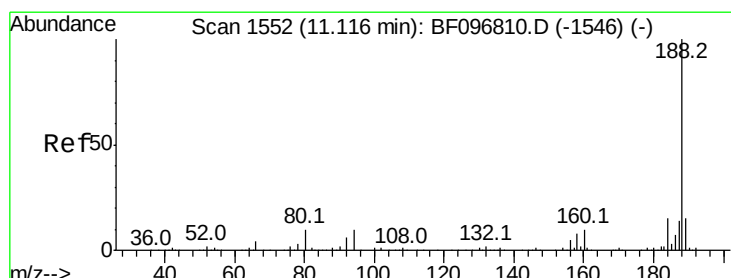
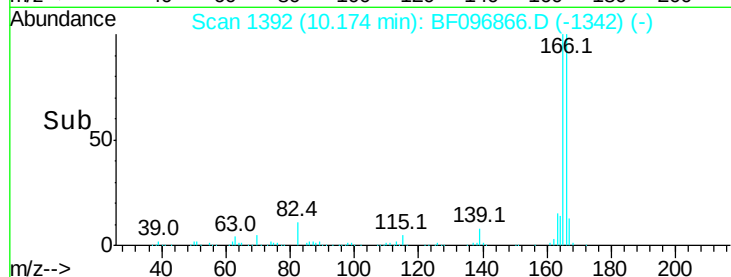
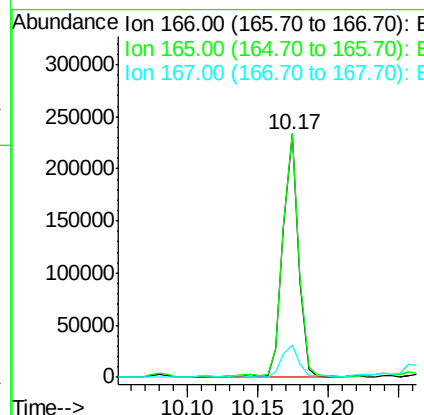
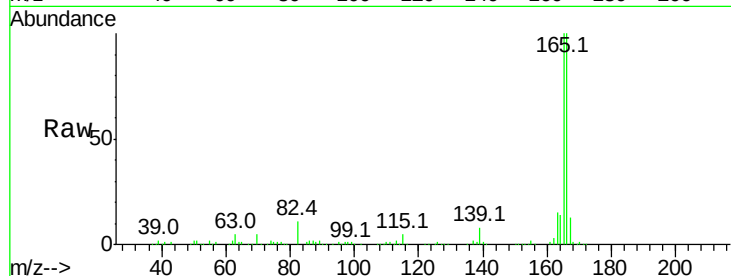
ClientSampleId :

NB-SB03ADL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	183331		
165	100.1	78.8	118.2	
167	13.3	10.6	16.0	

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#63

Phenanthrene-d10

Concen: 20.000 ng

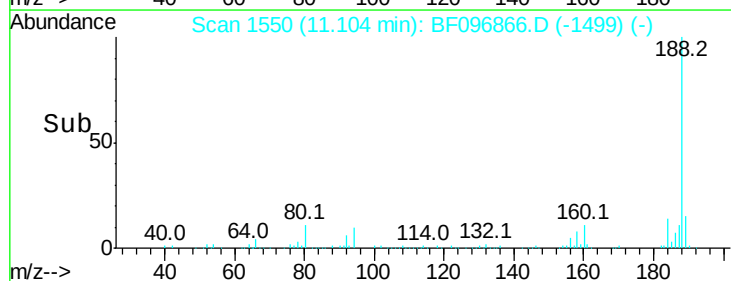
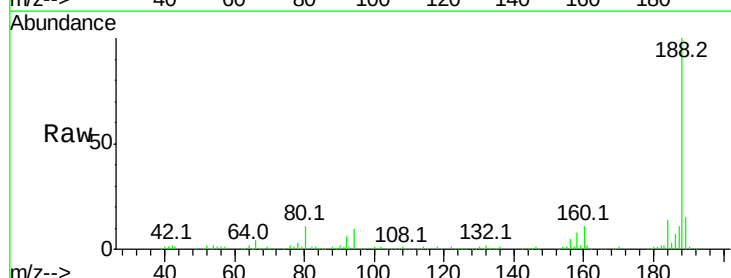
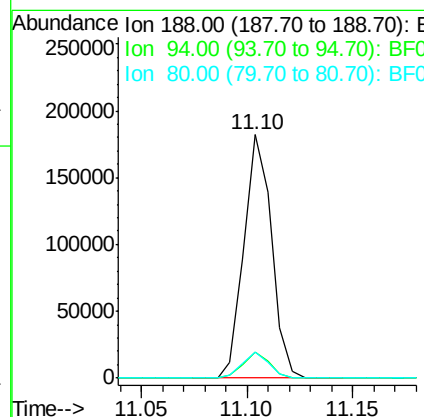
RT: 11.10 min Scan# 1550

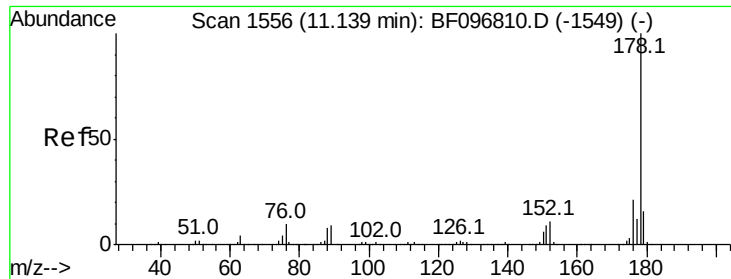
Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	164786		
94	10.4	9.4	14.2	
80	10.8	10.2	15.2	





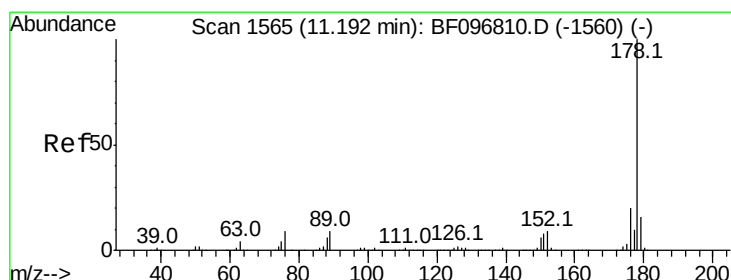
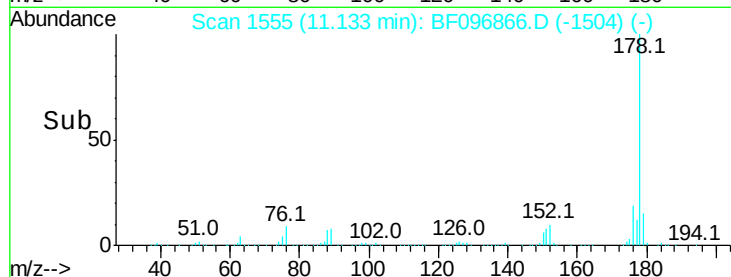
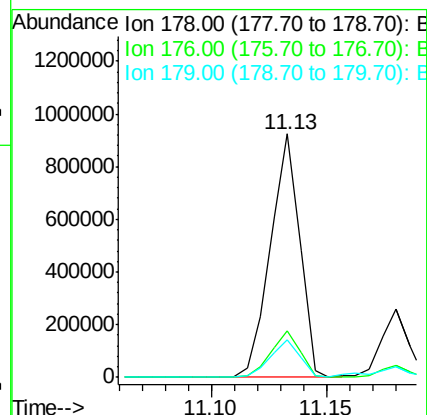
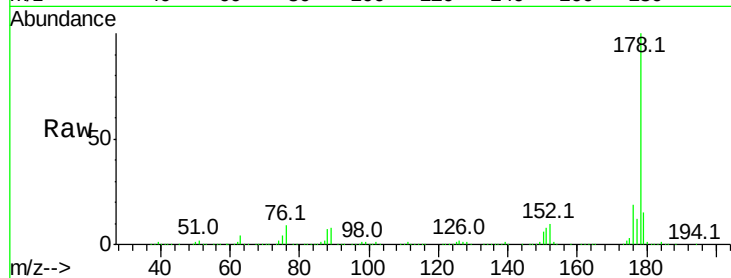
#70
Phenanthrene
Concen: 91.420 ng
RT: 11.13 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.4
179	15.3	12.6	19.0

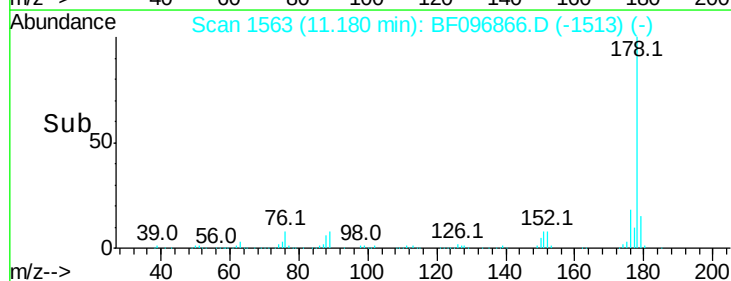
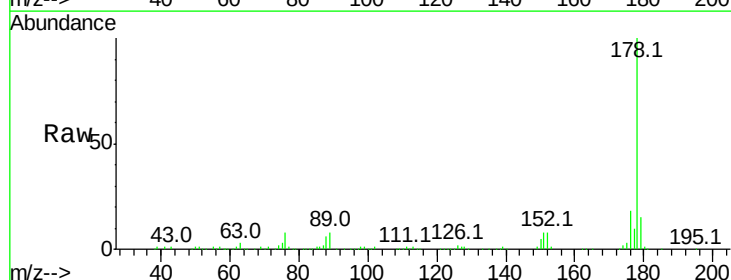
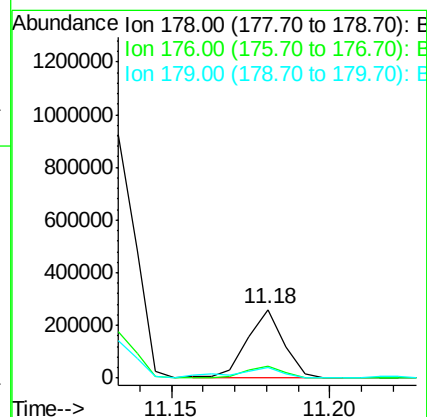
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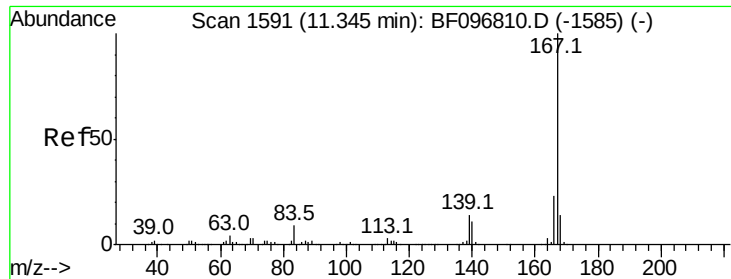
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#71
Anthracene
Concen: 22.679 ng
RT: 11.18 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.8
179	15.0	12.7	19.1





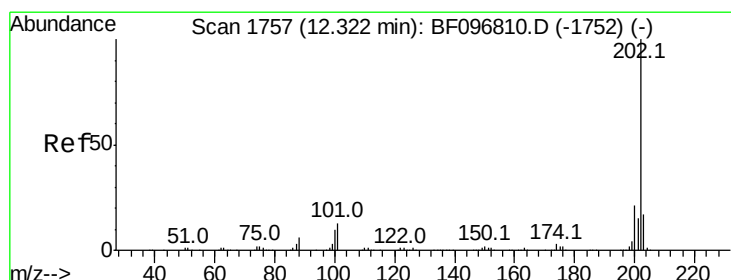
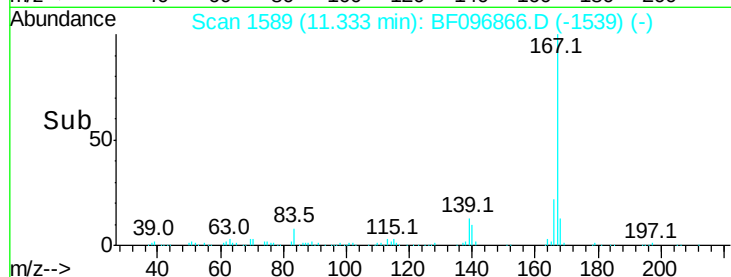
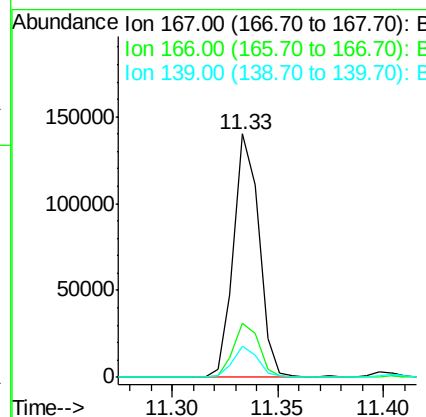
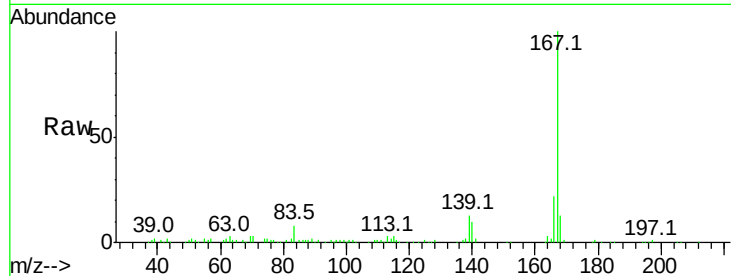
#72
 Carbazole
 Concen: 13.298 ng
 RT: 11.33 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF096866.D
 Acq: 19 Jul 2017 1:39

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	22.3	18.1	27.1	
139	12.6	11.7	17.5	

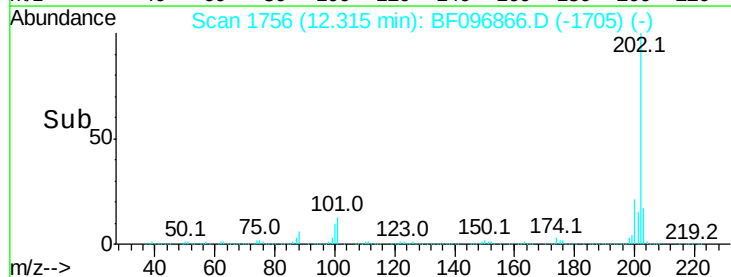
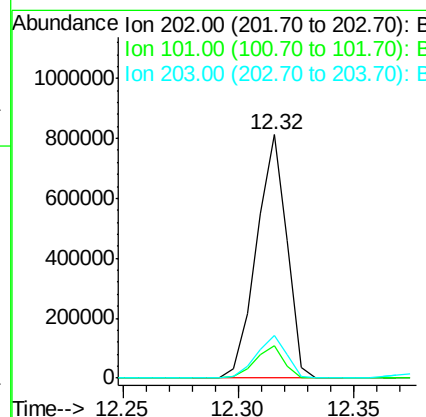
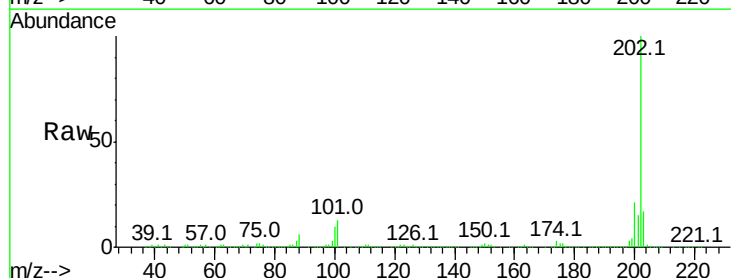
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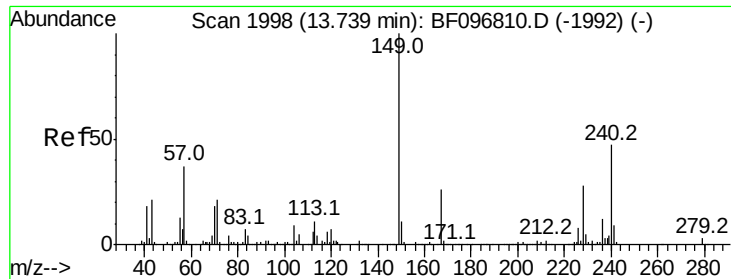
mohammad
 7/19/2017 2:32:15 PM



#74
 Fluoranthene
 Concen: 86.536 ng
 RT: 12.32 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: BF096866.D
 Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.2	0.0	33.2	
203	17.4	0.0	38.1	





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.73 min Scan# 1997

Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

ClientSampleId :

NB-SB03ADL

Tot Ion:240 Resp: 155136

Ion Ratio Lower Upper

240 100

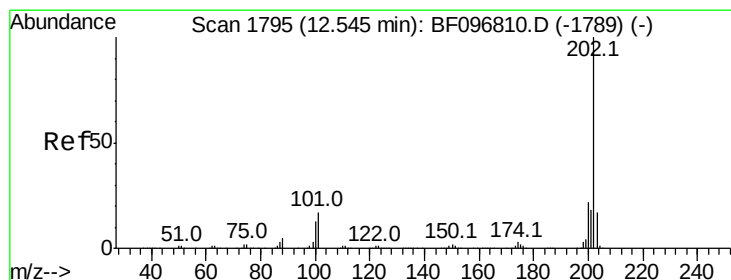
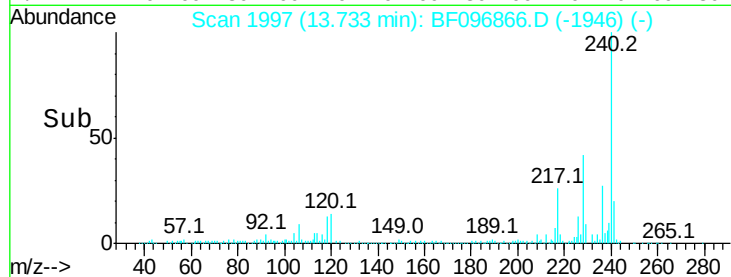
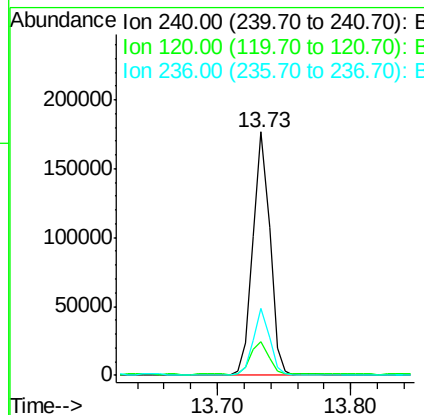
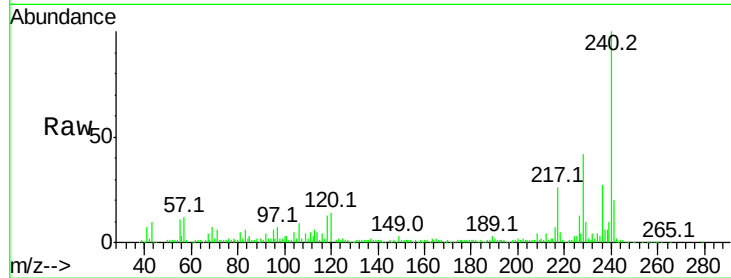
120 13.9 5.8 8.8#

236 27.4 20.5 30.7

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#77

Pyrene

Concen: 42.347 ng

RT: 12.54 min Scan# 1794

Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

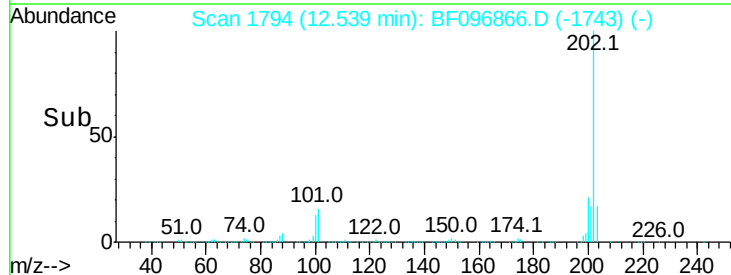
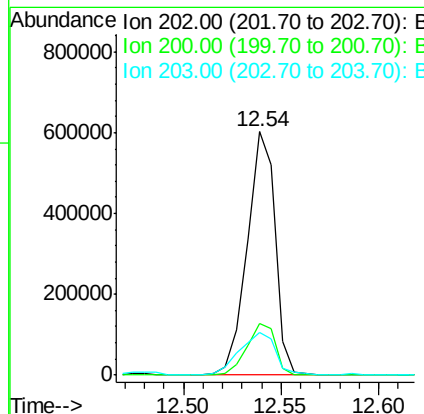
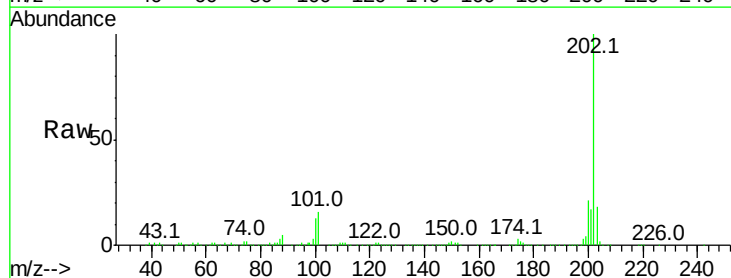
Tgt Ion:202 Resp: 596225

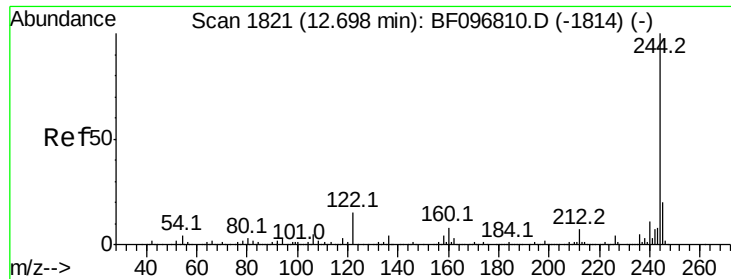
Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

203 17.6 14.4 21.6





#78

Terphenyl-d14

Concen: 11.455 ng

RT: 12.69 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

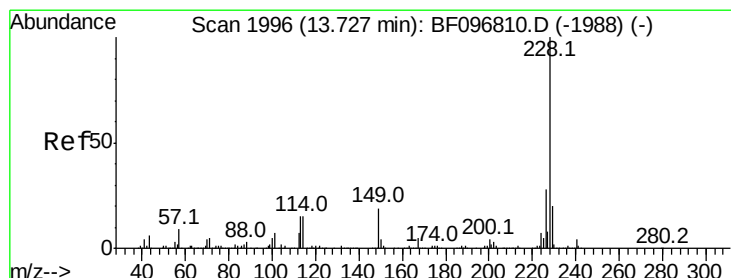
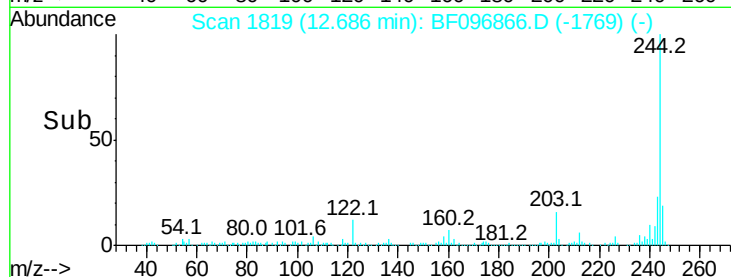
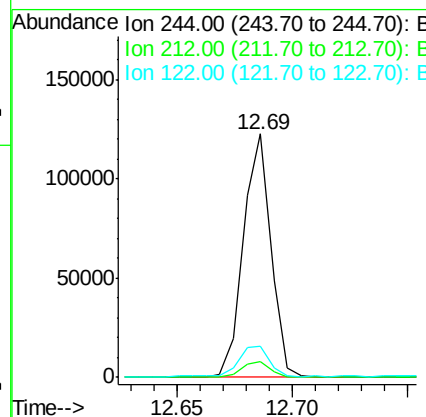
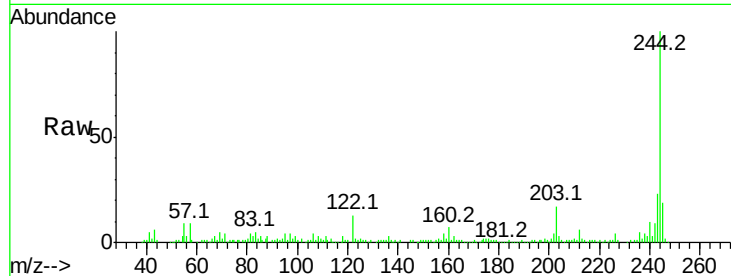
ClientSampleId :

NB-SB03ADL

Tot Ion:	244	Resp:	102471
Ion Ratio	Lower	Upper	
244	100		
212	6.3	6.0	9.0
122	12.7	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 29.396 ng

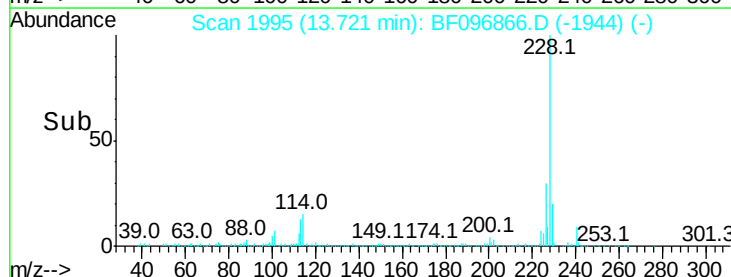
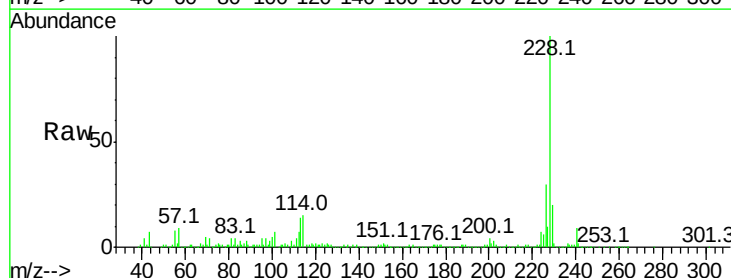
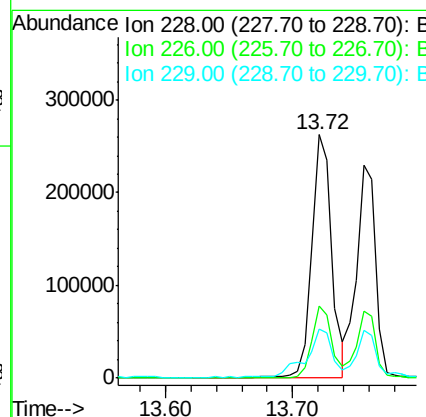
RT: 13.72 min Scan# 1995

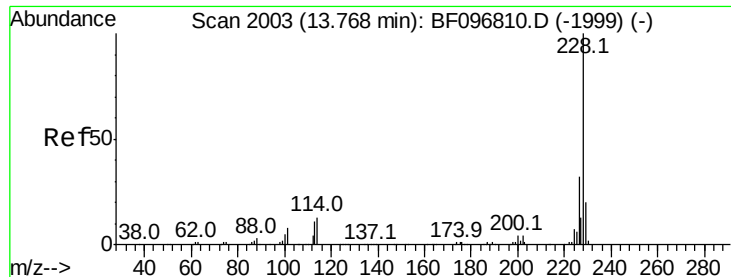
Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion:	228	Resp:	284148
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.6	33.8
229	20.3	16.3	24.5





#82

Chrysene

Concen: 25.026 ng

RT: 13.76 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

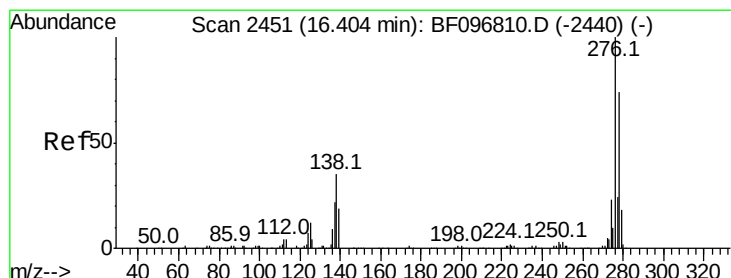
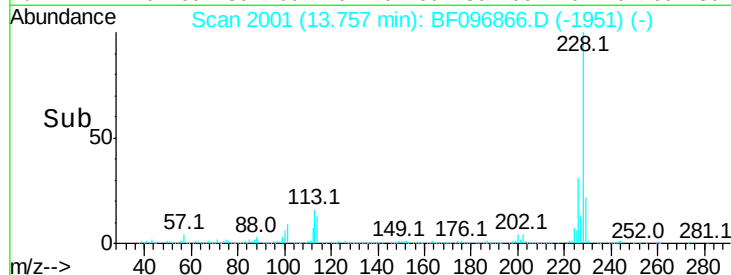
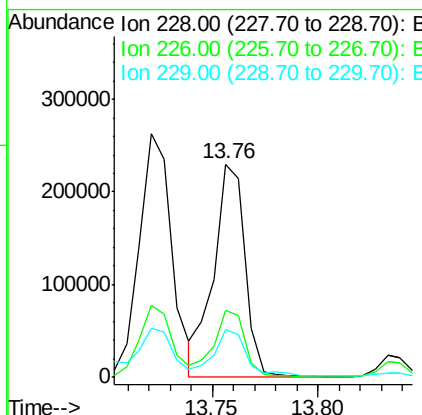
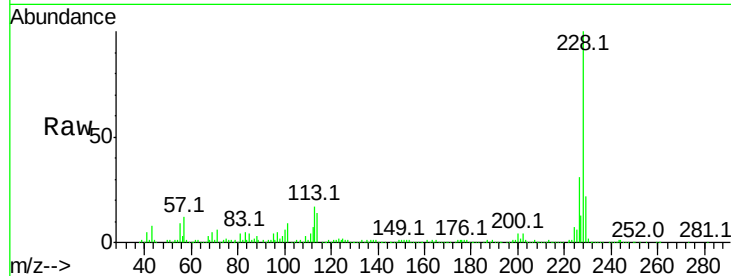
ClientSampleId :

NB-SB03ADL

Tot Ion:	228	Resp:	238150
Ion Ratio	Lower	Upper	
228	100		
226	31.5	24.9	37.3
229	22.3	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 11.073 ng

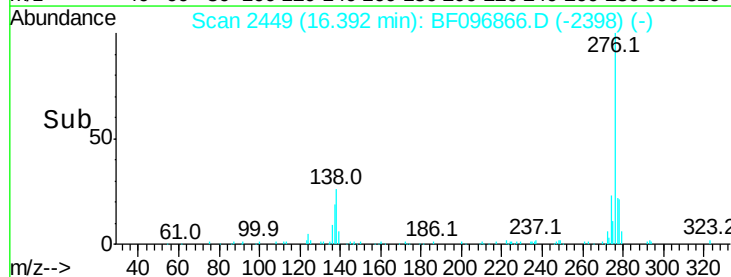
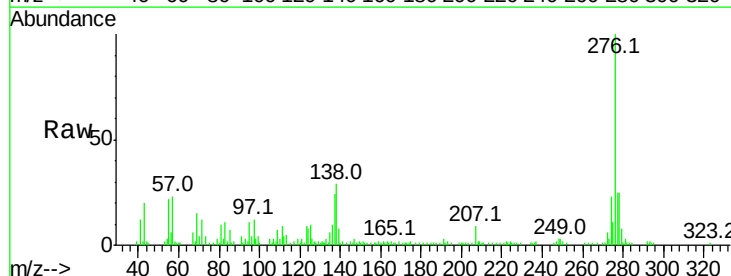
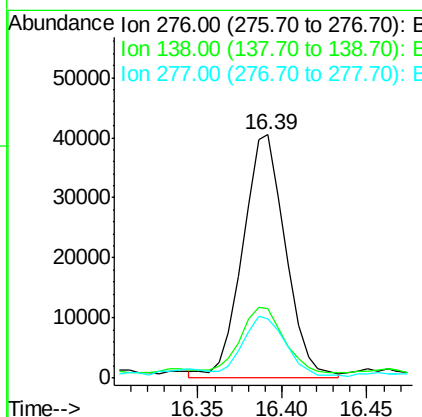
RT: 16.39 min Scan# 2449

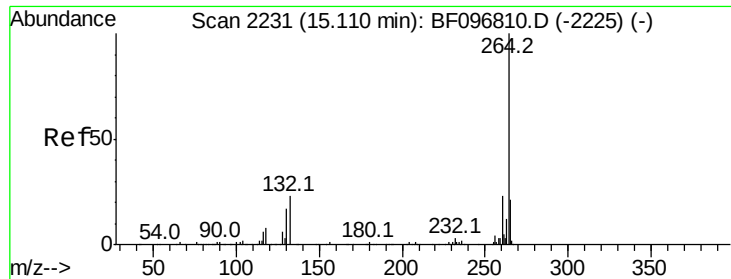
Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion:	276	Resp:	71591
Ion Ratio	Lower	Upper	
276	100		
138	29.0	27.8	41.6
277	24.0	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.10 min Scan# 2230

Delta R.T. -0.00 min

Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Instrument :

BNA_F

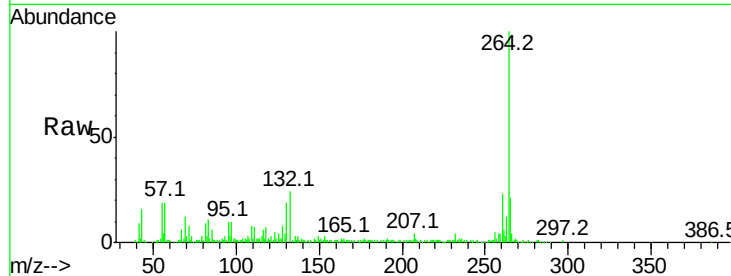
ClientSampleId :

NB-SB03ADL

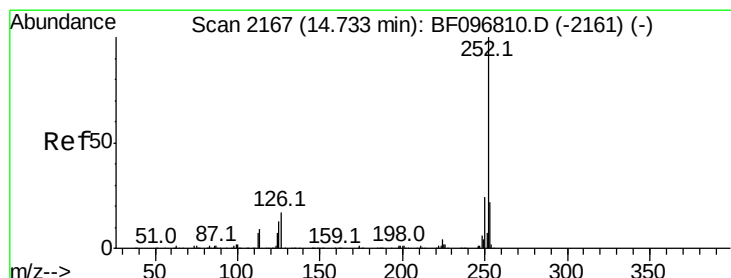
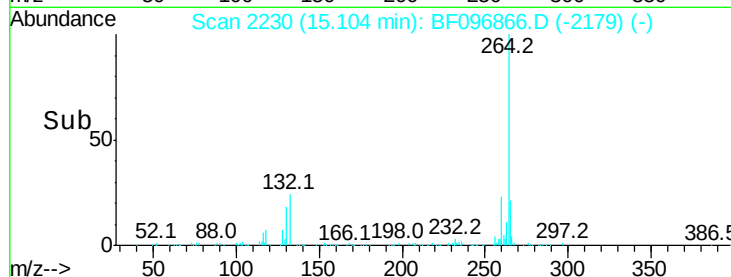
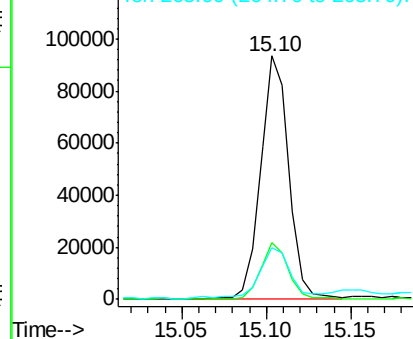
Tot Ion:	264	Resp:	107988
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.5	29.3
265	21.1	17.2	25.8

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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: 33.567 ng m

RT: 14.73 min Scan# 2167

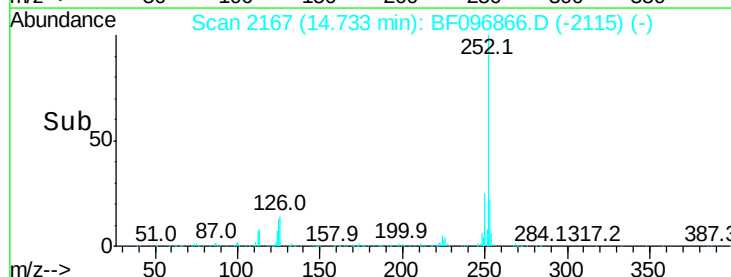
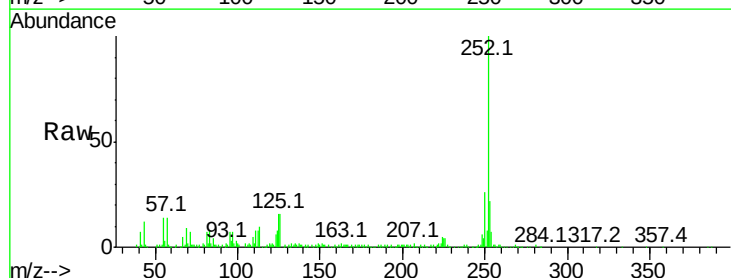
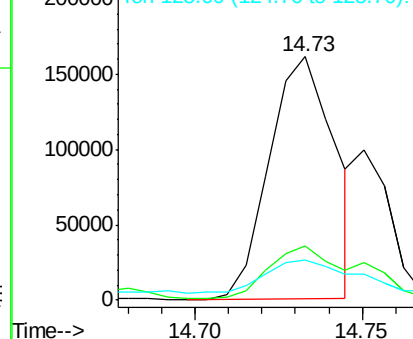
Delta R.T. 0.01 min

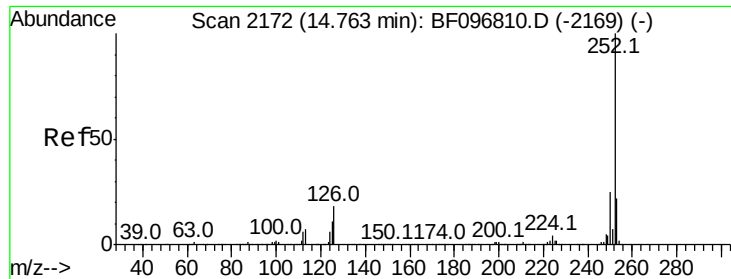
Lab File: BF096866.D

Acq: 19 Jul 2017 1:39

Tgt Ion:	252	Resp:	218621
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.1	27.1
125	16.3	9.8	14.8#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





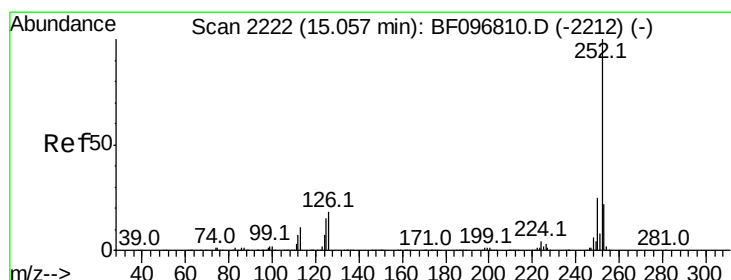
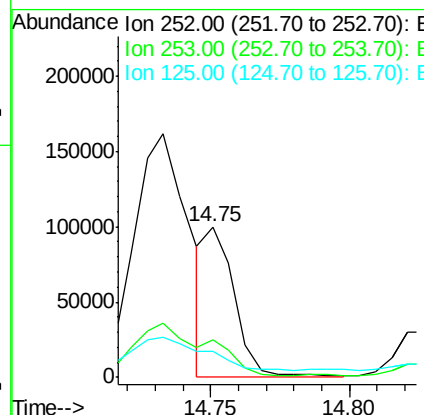
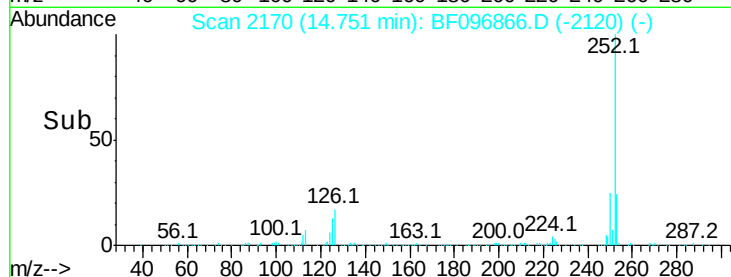
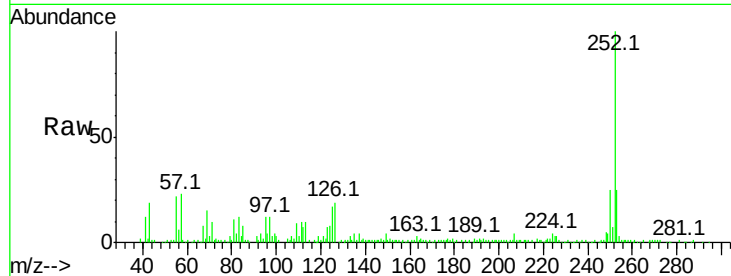
#88
Benzo(k)fluoranthene
Concen: 12.058 ng
RT: 14.75 min Scan# 2170
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.4	27.6
125	17.3	13.1	19.7

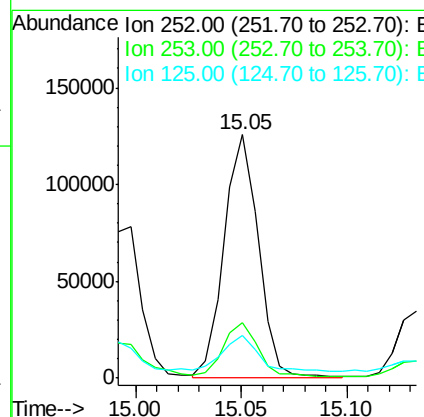
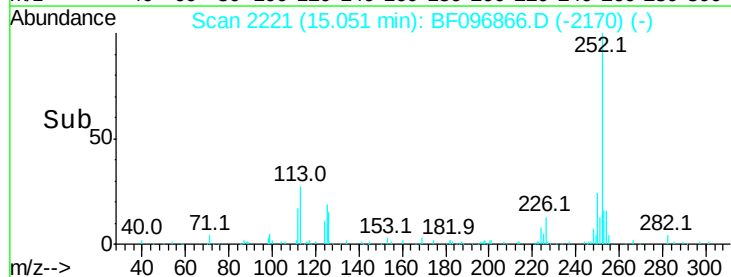
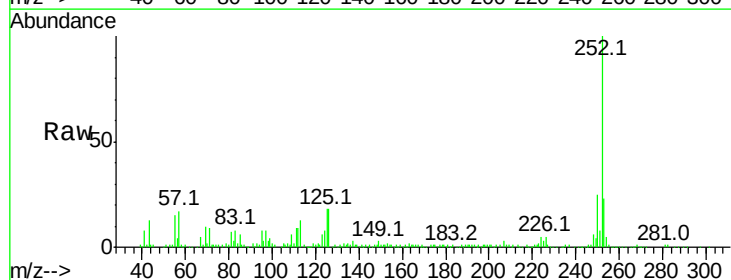
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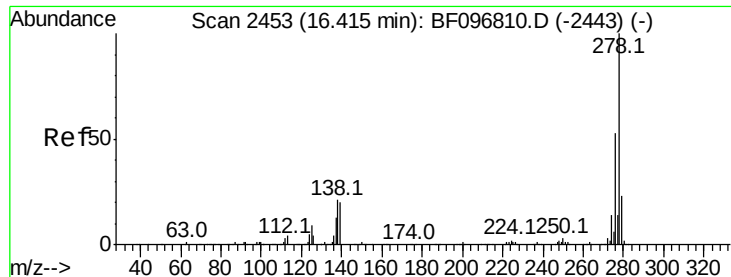
mohammad
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#89
Benzo(a)pyrene
Concen: 23.502 ng
RT: 15.05 min Scan# 2221
Delta R.T. -0.00 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	17.6	11.0	16.4





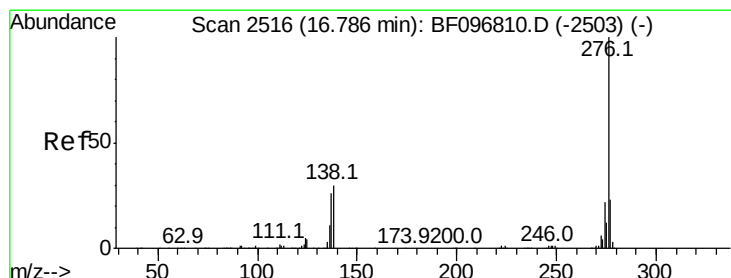
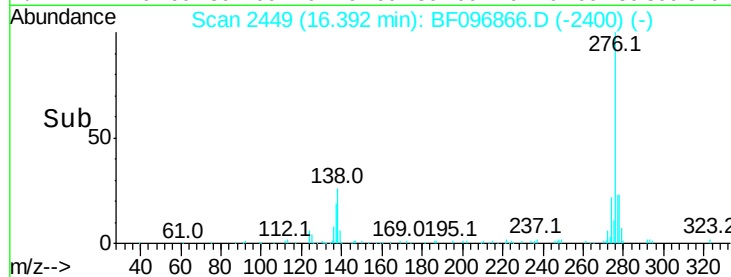
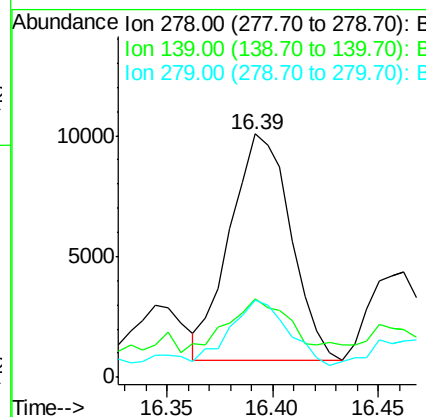
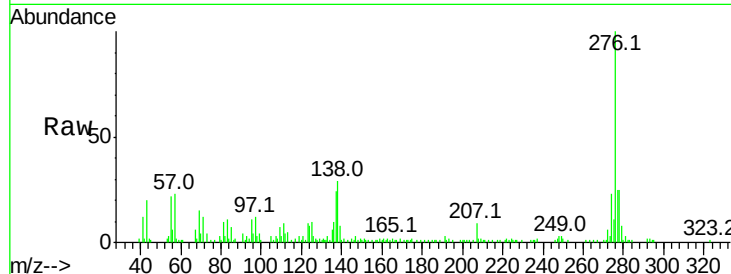
#90
Dibenzo(a,h)anthracene
Concen: 3.410 ng
RT: 16.39 min Scan# 2449
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
278	100		
139	32.2	16.6	24.8
279	31.5	19.3	28.9

Manual Integrations
APPROVED

mohammad
7/19/2017 2:32:15 PM



#91
Benzo(g,h,i)perylene
Concen: 10.746 ng
RT: 16.77 min Scan# 2514
Delta R.T. -0.01 min
Lab File: BF096866.D
Acq: 19 Jul 2017 1:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.6	28.0
138	29.8	25.4	38.0

