

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104810.D
 Acq On : 26 Apr 2018 2:05
 Operator : JU/SJ
 Sample : J2497-05 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3

Manual Integrations
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Sohil
 4/26/2018 6:14:55 PM

Quant Time: Apr 26 12:57:35 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	92739	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	367283	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	150433	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	217680	20.00	ng	0.00
75) Chrysene-d12	13.99	240	187940	20.00	ng	0.00
86) Perylene-d12	15.46	264	151793	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	11405	1.88	ng	0.00
7) Phenol-d6	6.44	99	14662	1.97	ng	0.00
23) Nitrobenzene-d5	7.36	82	8636	1.54	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	2475	1.59	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	18629	1.96	ng	0.00
78) Terphenyl-d14	12.92	244	15241	1.85	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.11	128	1389017	75.949	ng	99
37) 2-Methylnaphthalene	8.80	142	270024	22.825	ng	97
45) 1,1'-Biphenyl	9.26	154	82852	6.556	ng	98
48) Acenaphthylene	9.70	152	306165	19.549	ng	100
51) Acenaphthene	9.87	154	250623	26.228	ng	99
54) Dibenzofuran	10.05	168	259769	19.507	ng	98
57) Fluorene	10.39	166	380678	39.274	ng	100
70) Phenanthrene	11.36	178	1340960	110.618	ng	99
71) Anthracene	11.41	178	505432	41.017	ng	99
72) Carbazole	11.57	167	122503	10.174	ng	97
74) Fluoranthene	12.56	202	1344803	106.177	ng	99
77) Pylene	12.79	202	1306824	93.809	ng	100
80) Benzo(a)anthracene	13.98	228	770565m	68.630	ng	
82) Chrysene	14.02	228	634823	55.046	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	250015	25.520	ng	# 91
87) Benzo(b)fluoranthene	15.04	252	738822m	77.065	ng	
88) Benzo(k)fluoranthene	15.06	252	218947m	24.190	ng	
89) Benzo(a)pyrene	15.40	252	539550	62.900	ng	97
90) Dibenzo(a,h)anthracene	16.92	278	67643	9.601	ng	92
91) Benzo(a,h,i)perylene	17.37	276	239533	35.094	ng	94

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

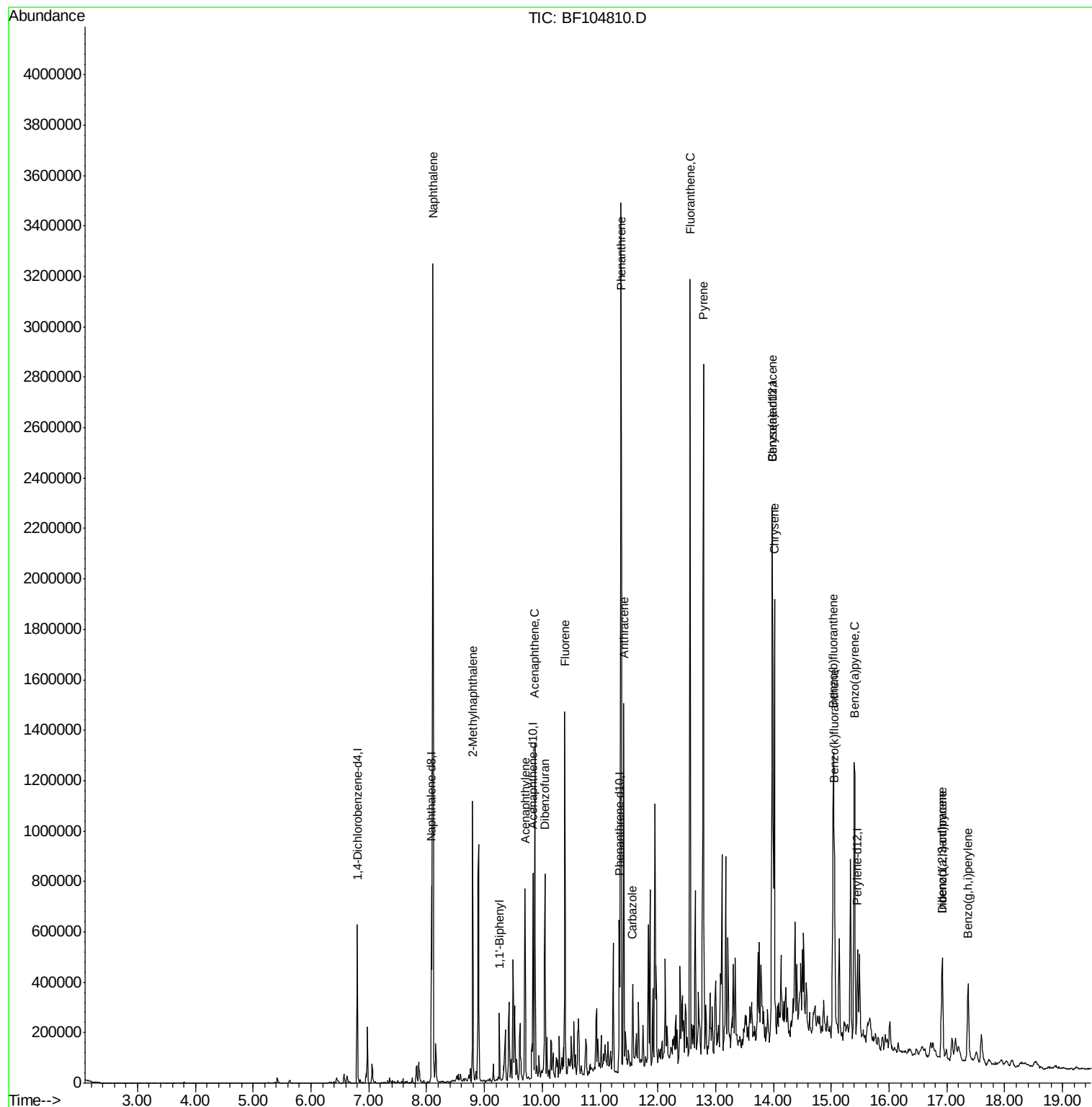
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
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ALS Vial : 29 Sample Multiplier: 1

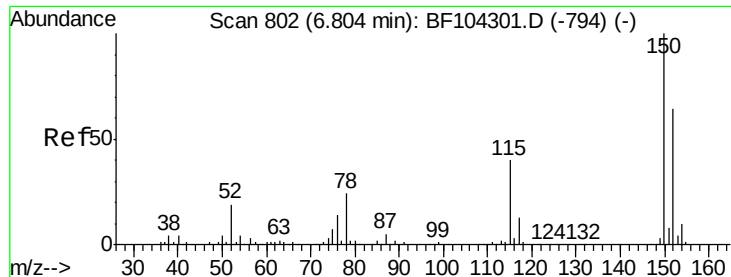
Instrument :
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A2-SB01-N-3

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#1

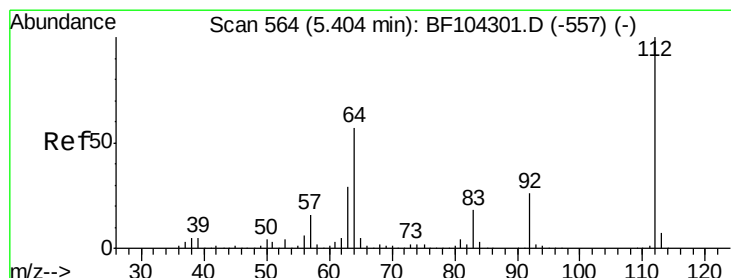
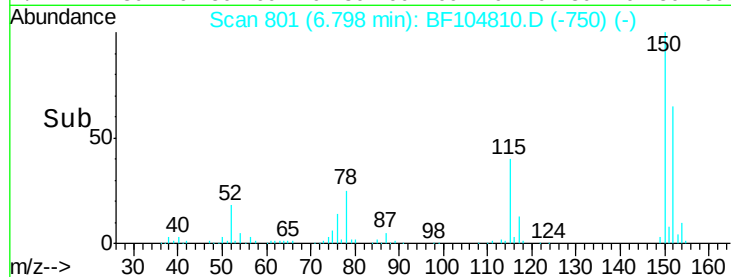
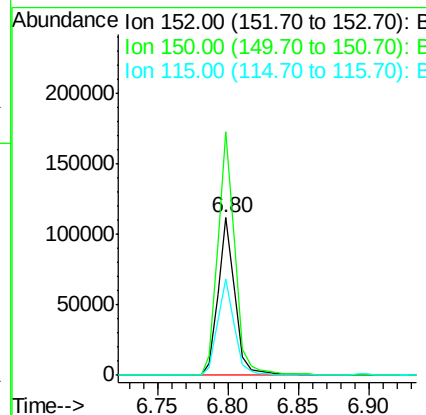
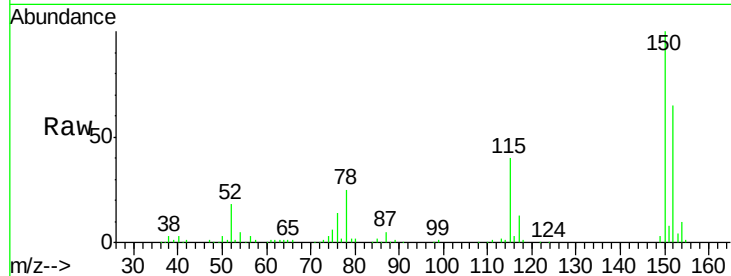
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.00 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.6	186.8
115	61.5	50.1	75.1

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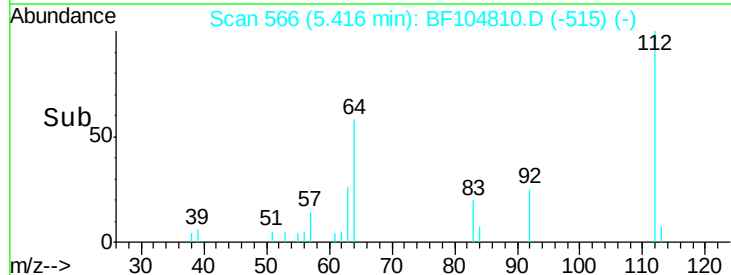
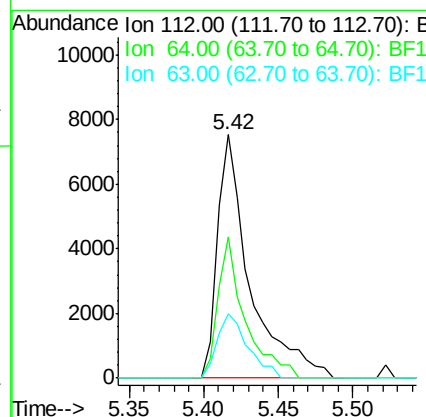
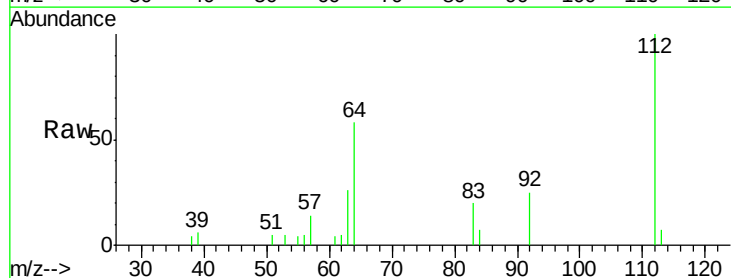
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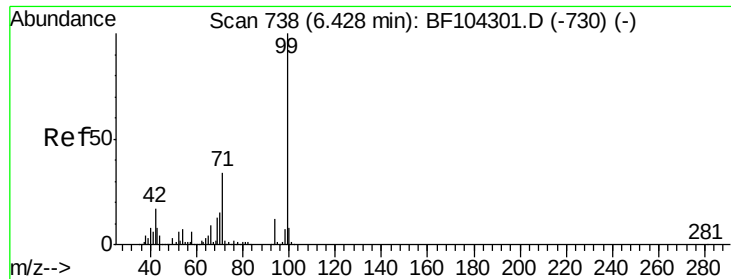


#5

2-Fluorophenol
Concen: 1.880 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.9	71.9
63	26.4	23.7	35.5





#7

Phenol-d6

Concen: 1.968 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

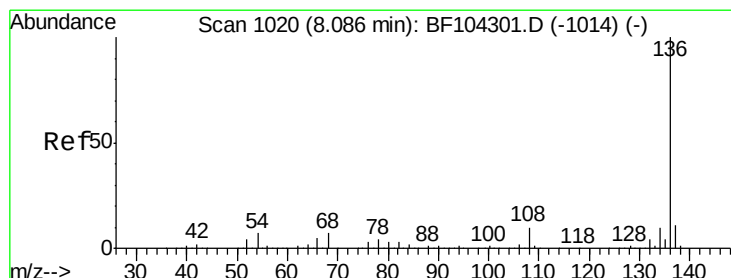
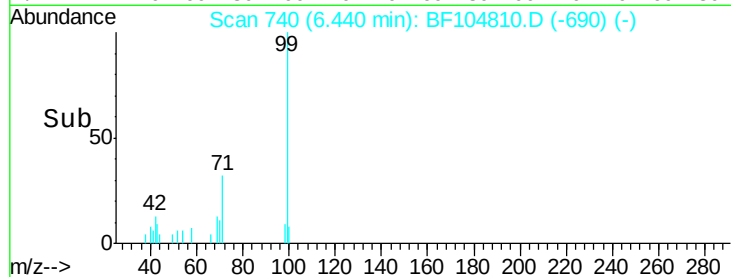
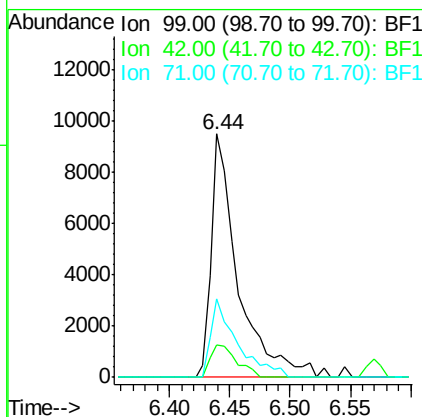
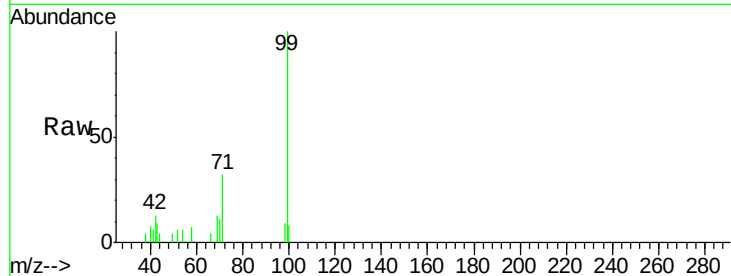
ClientSampleId :

A2-SB01-N-3

Tot Ion:	99	Resp:	14662
Ion Ratio	Lower	Upper	
99	100		
42	13.4	14.5	21.7#
71	32.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

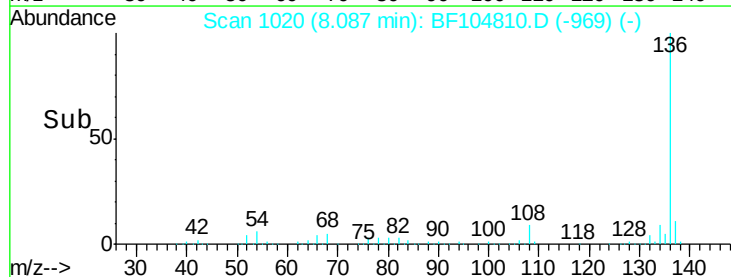
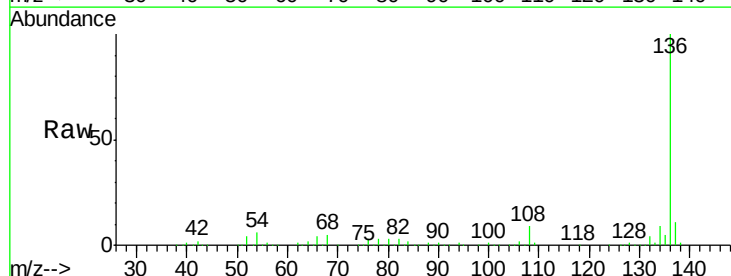
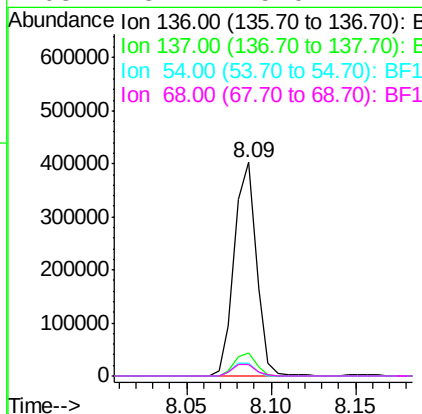
RT: 8.09 min Scan# 1020

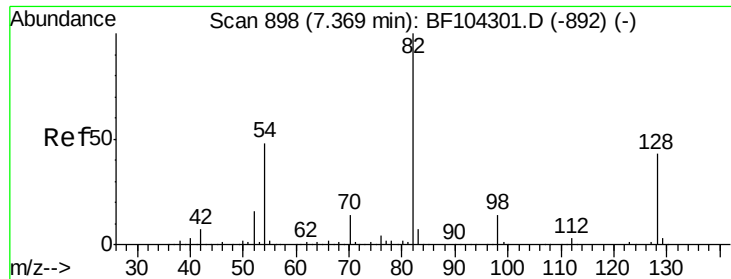
Delta R.T. 0.00 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	136	Resp:	367283
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	6.0	6.6	9.8#
68	5.2	5.0	7.4





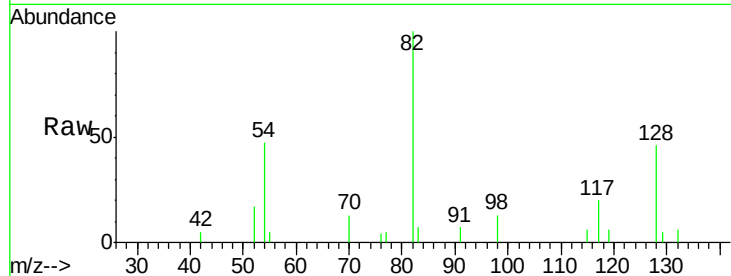
#23
 Nitrobenzene-d5
 Concen: 1.535 ng
 RT: 7.36 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3

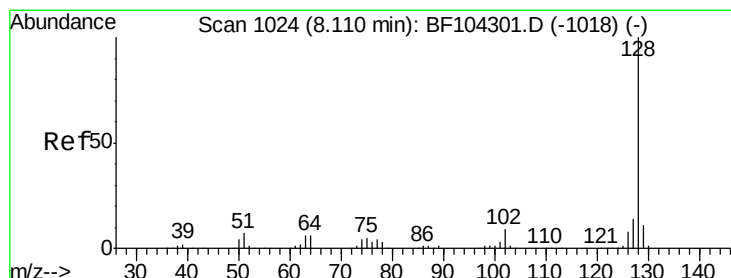
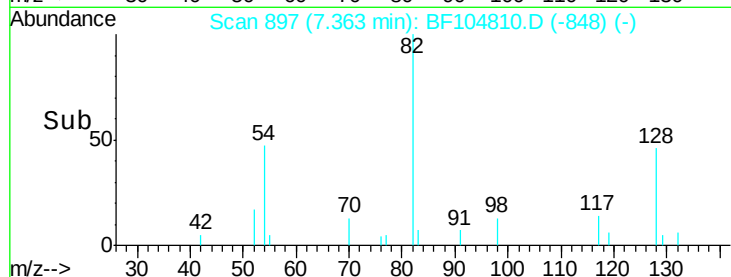
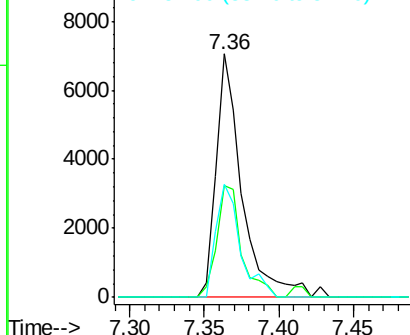
Tot Ion	82	Resp	8636
Ion Ratio	100	Lower	Upper
82	100		
128	46.0	36.1	54.1
54	46.6	41.4	62.2

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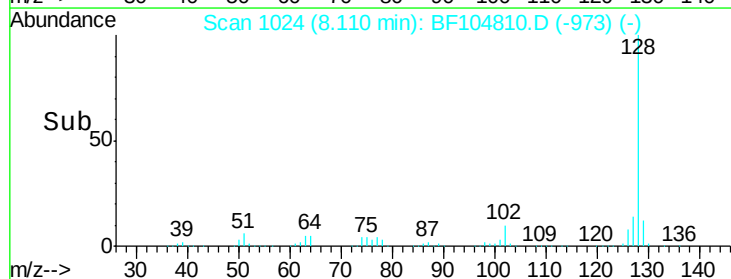
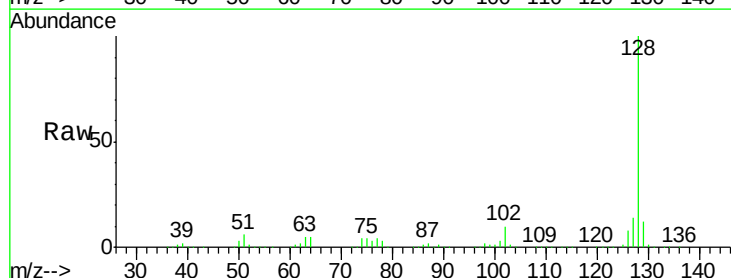
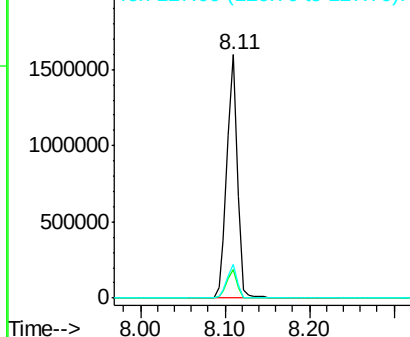
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

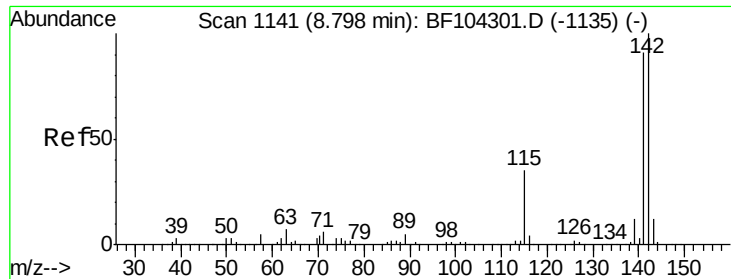


#31
 Naphthalene
 Concen: 75.949 ng
 RT: 8.11 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Tgt Ion	128	Resp	1389017
Ion Ratio	100	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	14.1	10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





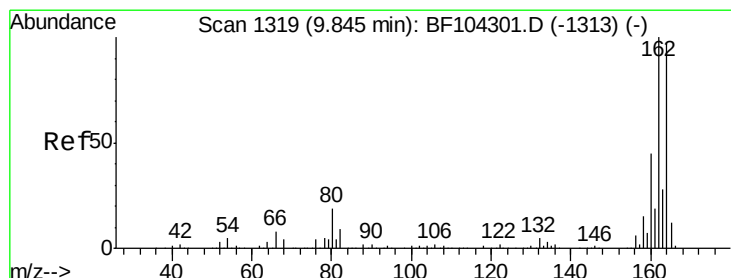
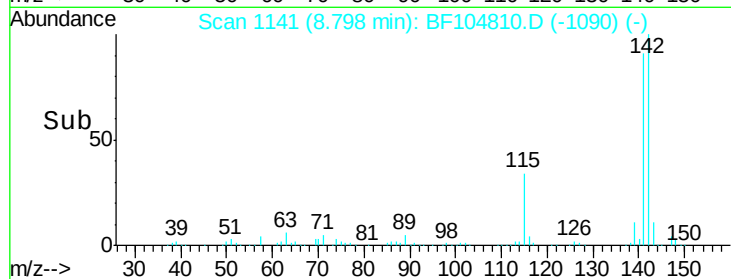
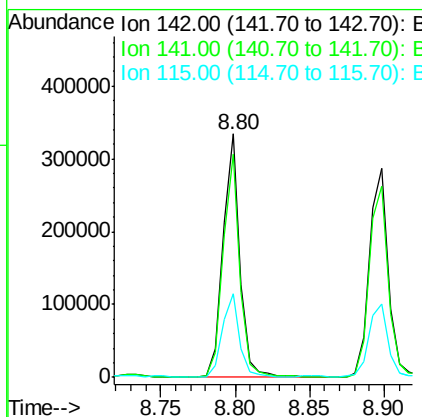
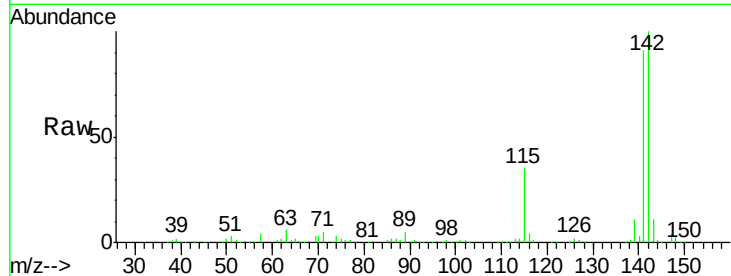
#37
2-Methylnaphthalene
Concen: 22.825 ng
RT: 8.80 min Scan# 1141
Delta R.T. 0.00 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.5	70.8	106.2
115	34.5	26.1	39.1

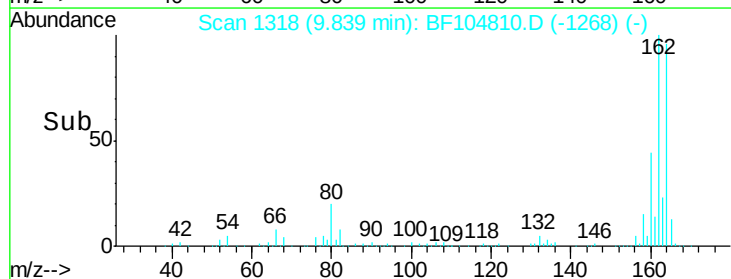
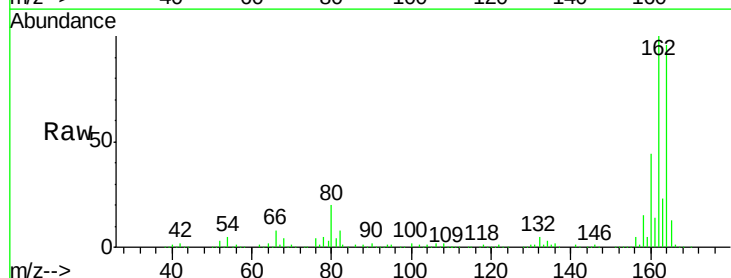
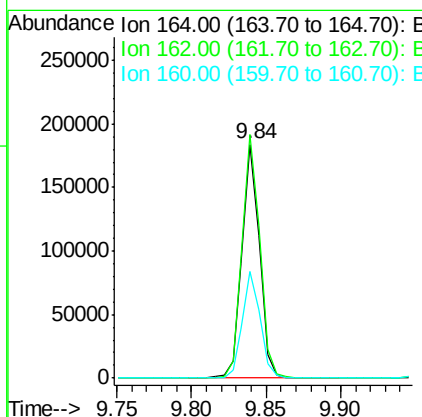
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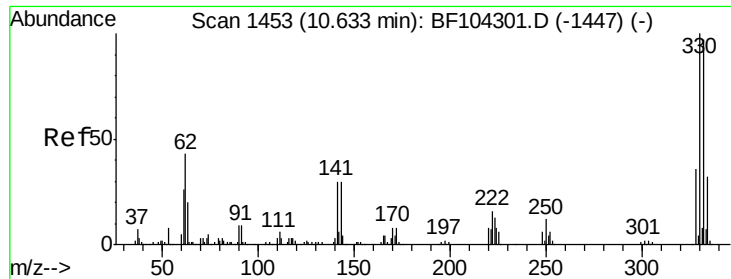
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.1	129.1
160	45.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 1.586 ng

RT: 10.64 min Scan# 1454

Delta R.T. 0.00 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

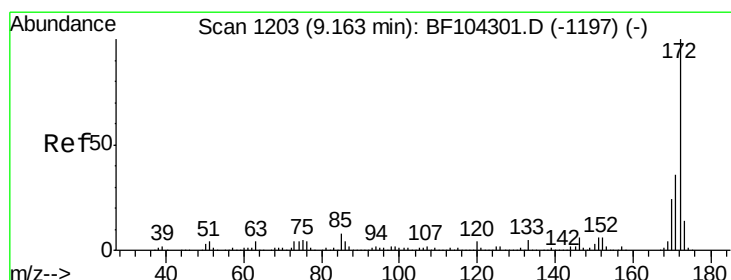
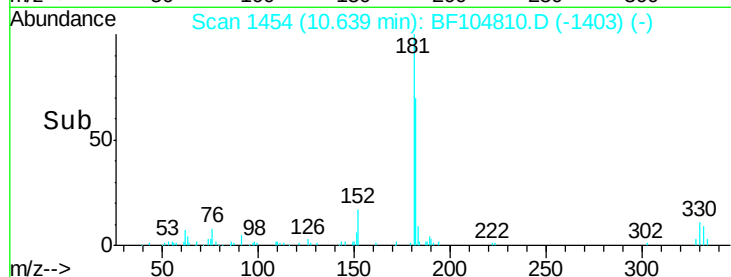
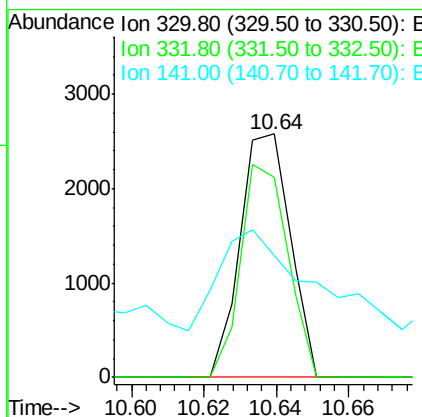
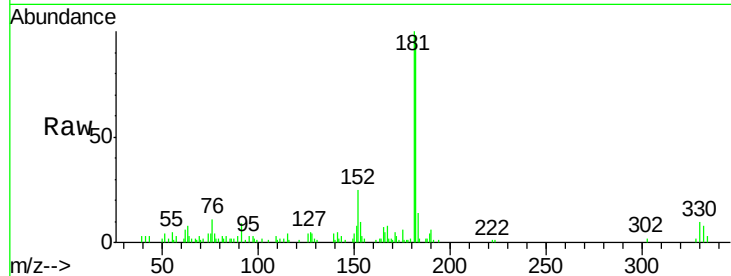
ClientSampleId :

A2-SB01-N-3

Tot Ion:	330	Resp:	2475
Ion Ratio	Lower	Upper	
330	100		
332	82.3	77.0	115.6
141	91.4	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 1.956 ng

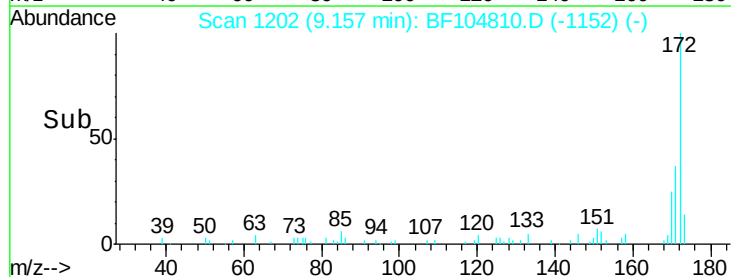
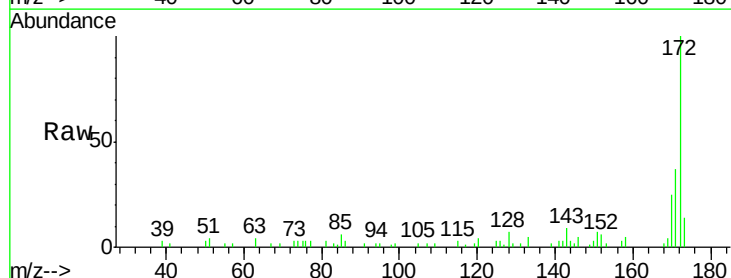
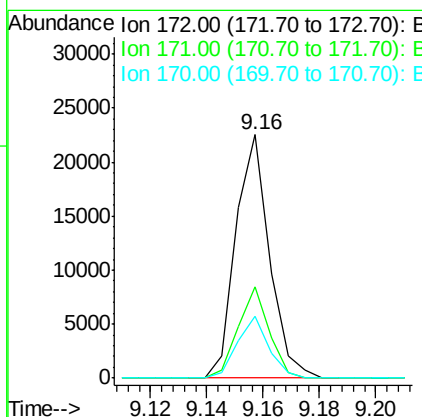
RT: 9.16 min Scan# 1202

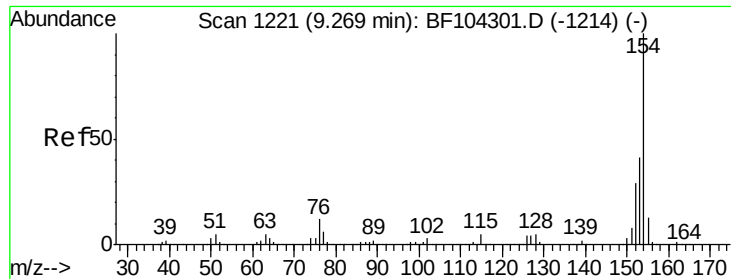
Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	172	Resp:	18629
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.7	44.5
170	25.2	19.6	29.4





#45

1,1'-Biphenyl

Concen: 6.556 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

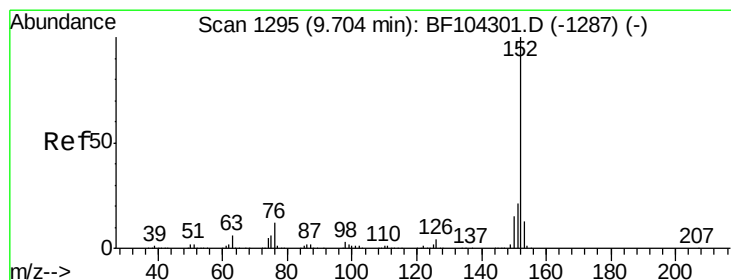
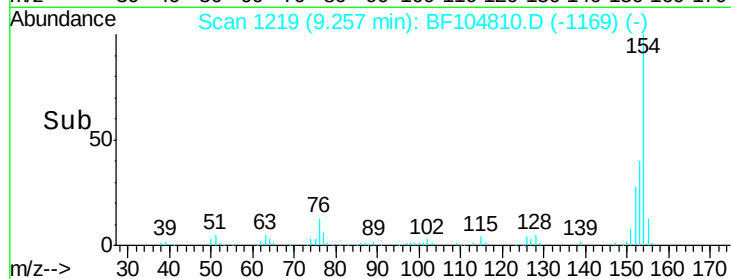
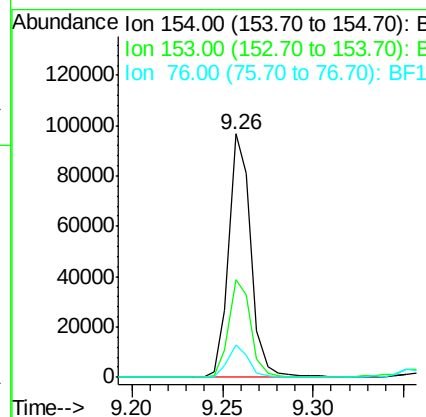
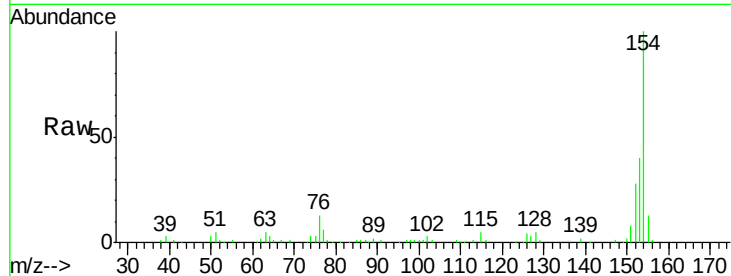
ClientSampleId :

A2-SB01-N-3

Tot Ion:	154	Resp:	82852
Ion Ratio	Lower	Upper	
154	100		
153	40.2	21.3	61.3
76	13.3	0.0	34.0

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#48

Acenaphthylene

Concen: 19.549 ng

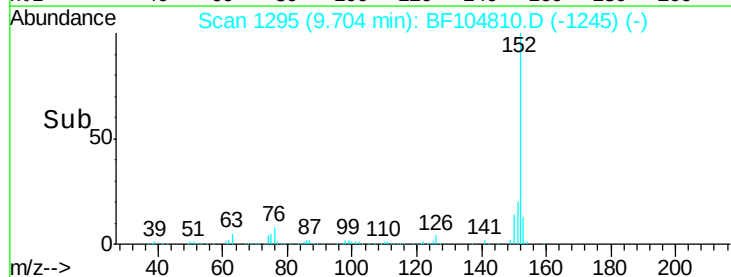
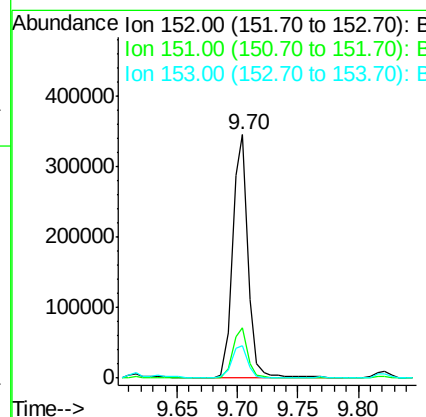
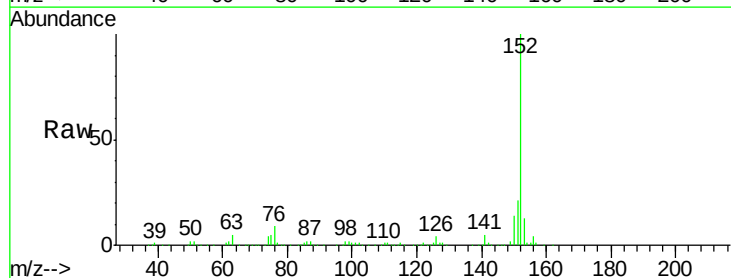
RT: 9.70 min Scan# 1295

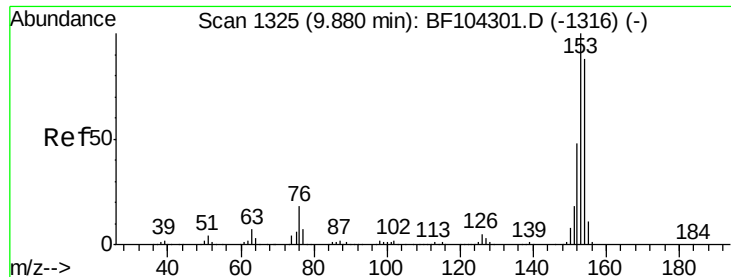
Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	152	Resp:	306165
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.3	24.5
153	13.3	10.7	16.1





#51

Acenaphthene

Concen: 26.228 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

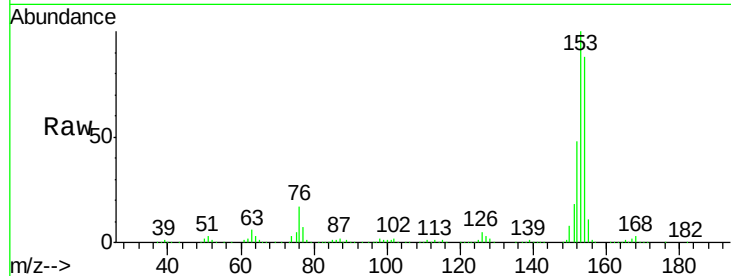
ClientSampleId :

A2-SB01-N-3

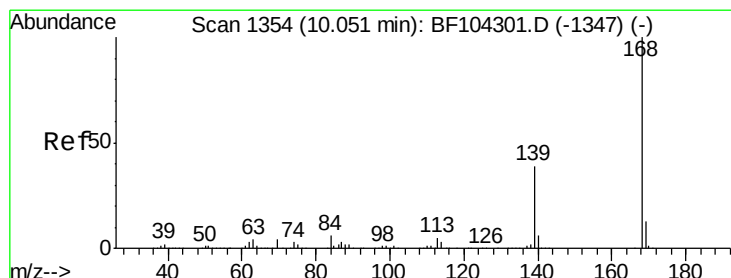
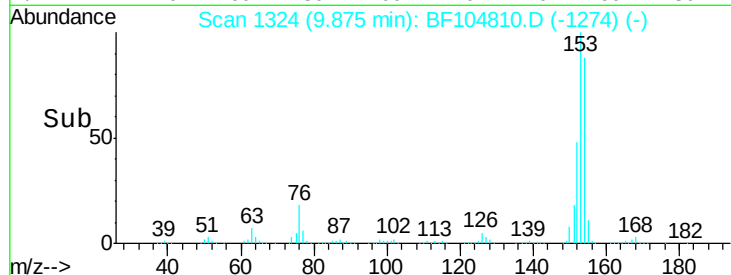
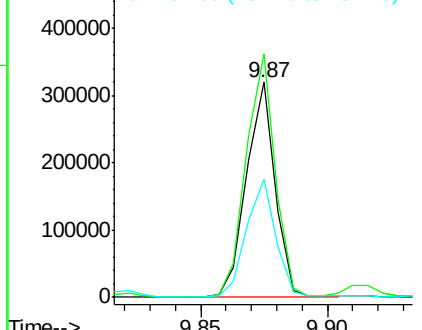
Tot Ion:	154	Resp:	250623
Ion Ratio	Lower	Upper	
154	100		
153	113.2	91.2	136.8
152	54.8	43.8	65.8

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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: 19.507 ng

RT: 10.05 min Scan# 1353

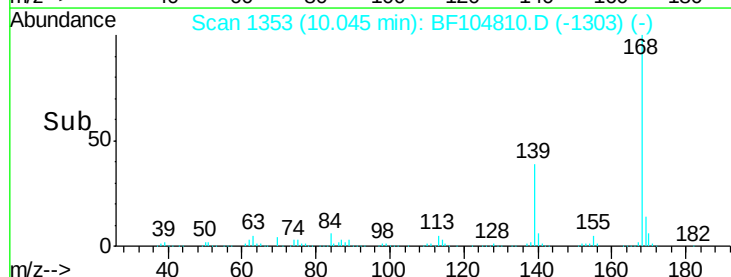
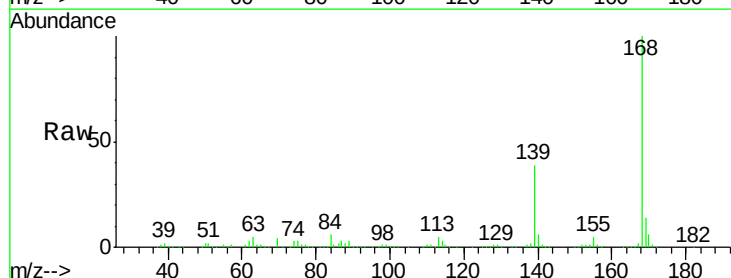
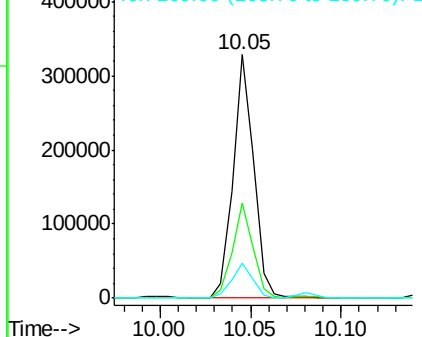
Delta R.T. -0.01 min

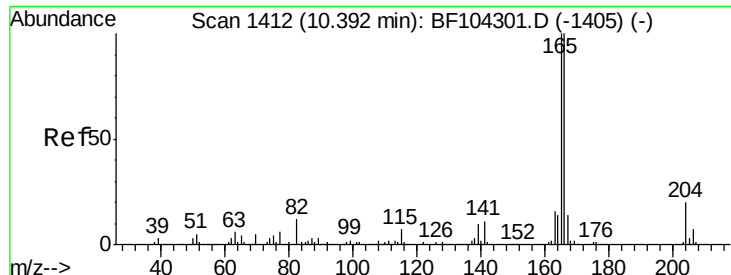
Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	168	Resp:	259769
Ion Ratio	Lower	Upper	
168	100		
139	39.2	30.1	45.1
169	14.4	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





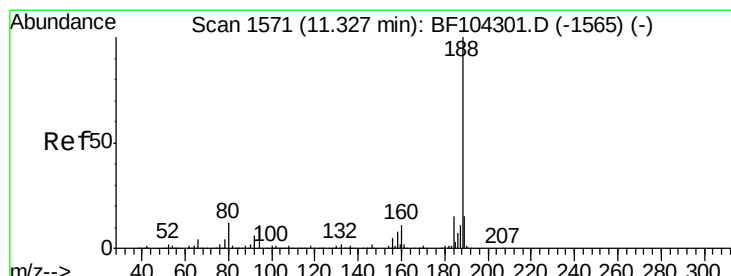
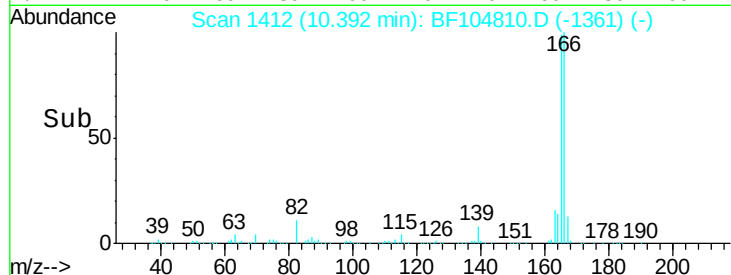
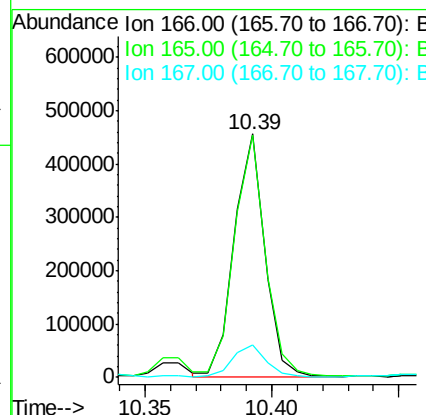
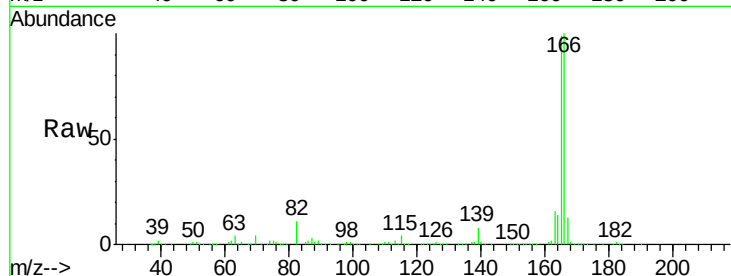
#57
Fluorene
 Concen: 39.274 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. 0.00 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3

Tot Ion	Ratio	Resp	Lower	Upper
166	100	380678		
165	99.4	79.8	119.8	
167	13.5	10.6	16.0	

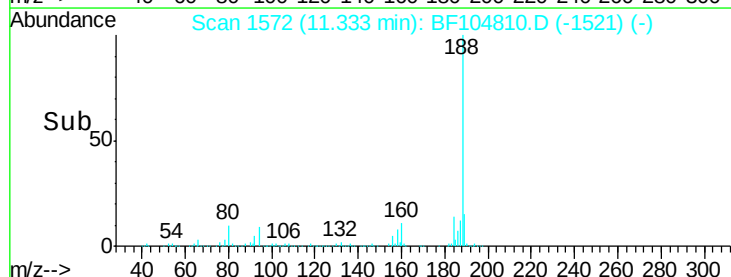
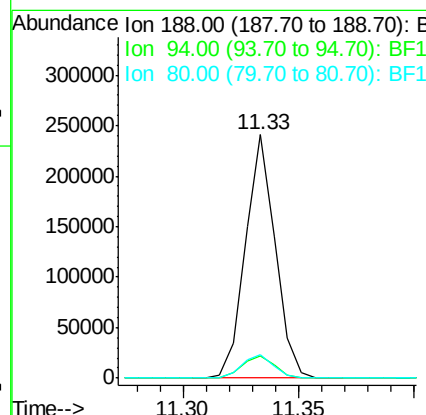
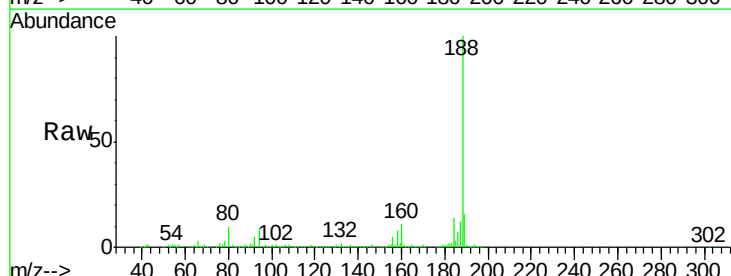
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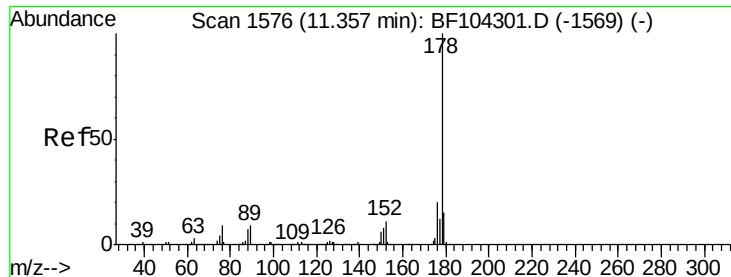
Sohil
 4/26/2018 6:14:55 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	217680		
94	9.3	8.5	12.7	
80	9.8	9.2	13.8	





#70

Phenanthrene

Concen: 110.618 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.00 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

ClientSampleId :

A2-SB01-N-3

Tot Ion:178 Resp: 1340960

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

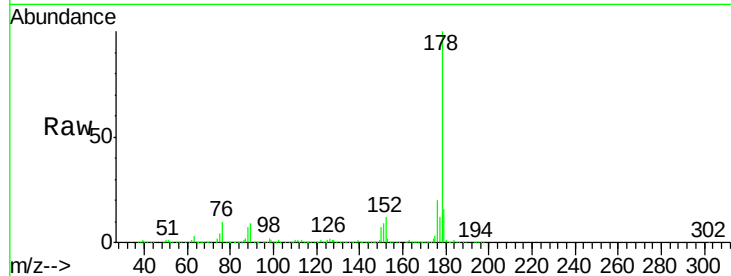
179 15.9 13.0 19.6

Manual Integrations

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Sohil

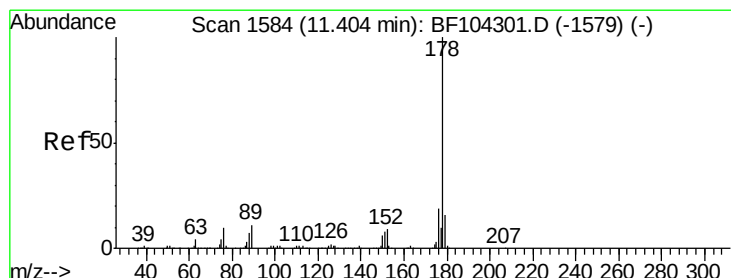
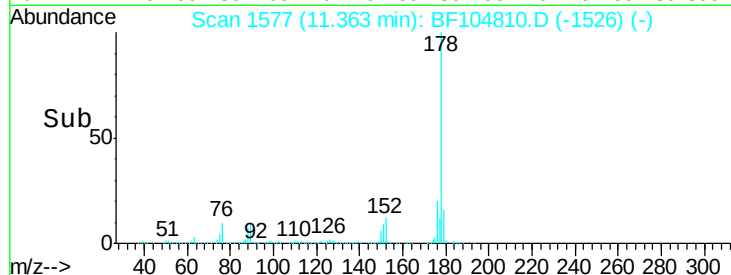
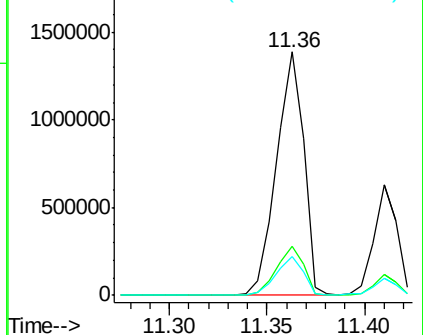
4/26/2018 6:14:55 PM



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: 41.017 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:178 Resp: 505432

Ion Ratio Lower Upper

178 100

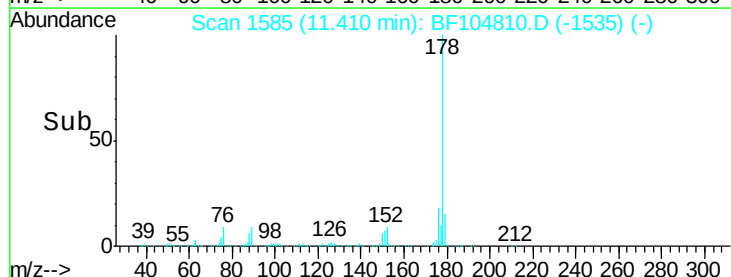
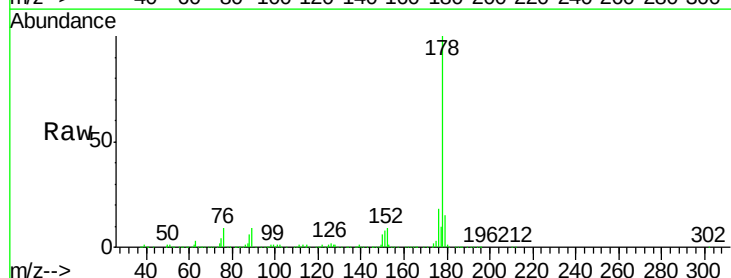
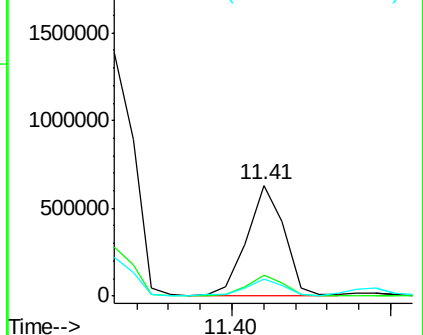
176 18.5 15.4 23.2

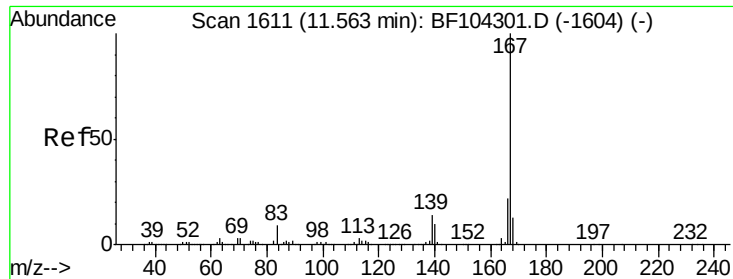
179 15.4 12.6 19.0

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





#72

Carbazole

Concen: 10.174 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

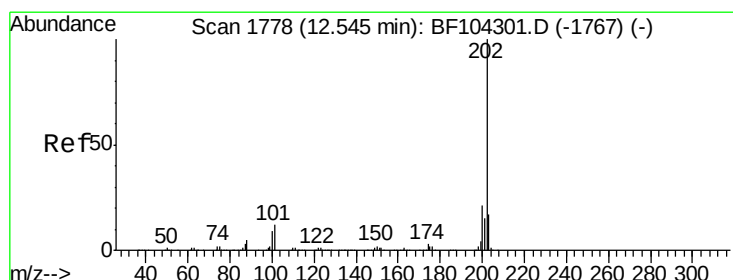
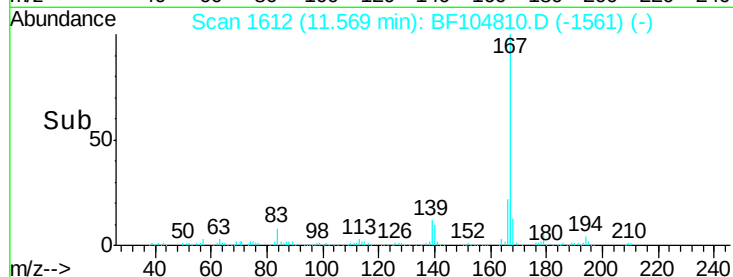
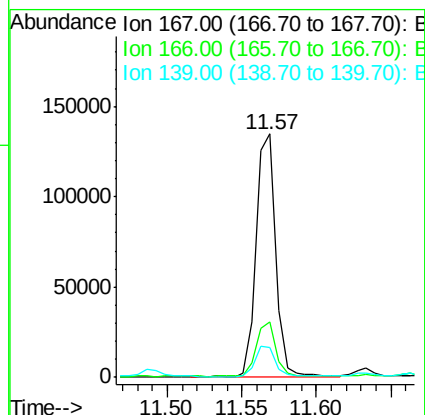
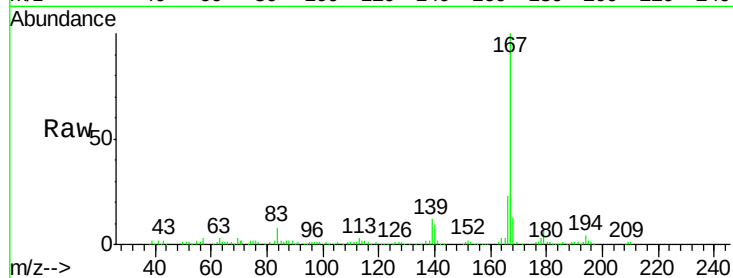
ClientSampleId :

A2-SB01-N-3

Tot Ion:	167	Resp:	122503
Ion Ratio	Lower	Upper	
167	100		
166	23.0	17.6	26.4
139	12.4	10.9	16.3

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#74

Fluoranthene

Concen: 106.177 ng

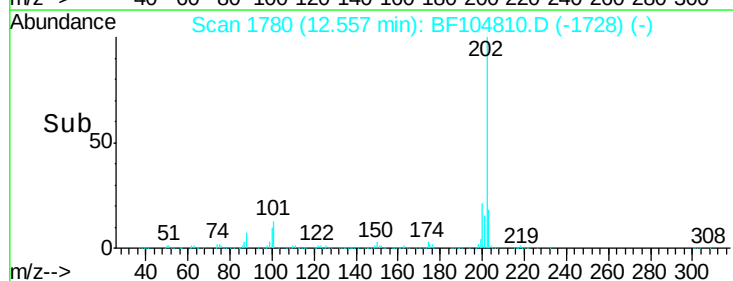
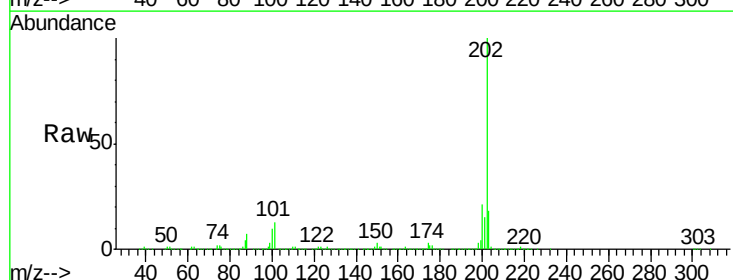
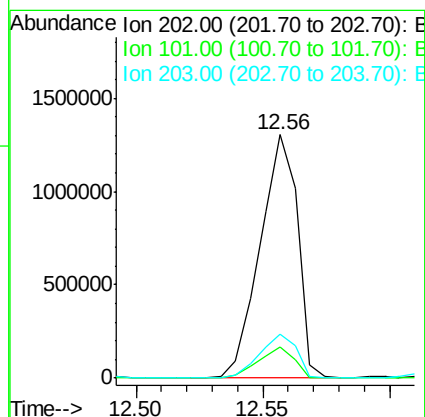
RT: 12.56 min Scan# 1780

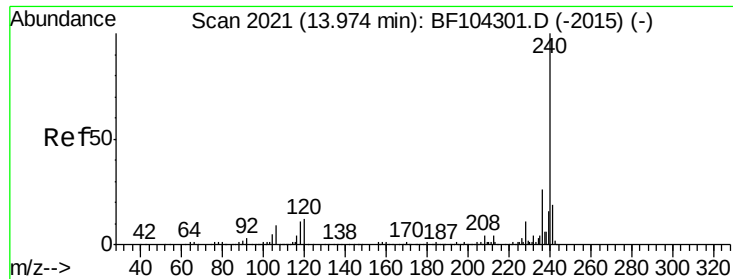
Delta R.T. 0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	202	Resp:	1344803
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

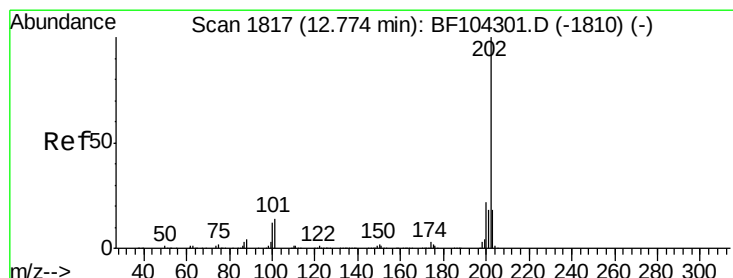
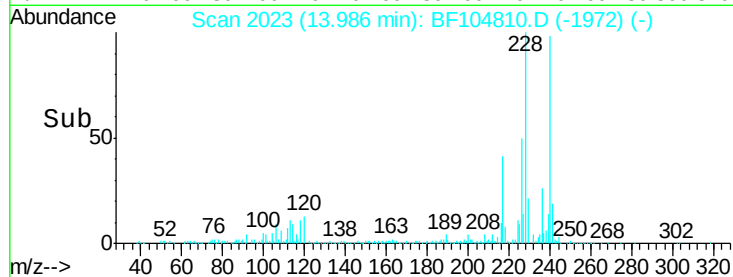
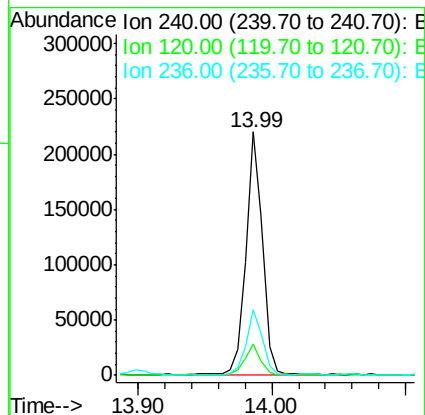
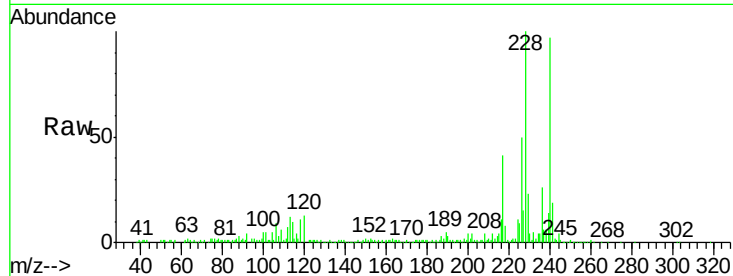
ClientSampleId :

A2-SB01-N-3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	13.0	9.5	14.3		
236	27.0	20.7	31.1		

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#77

Pyrene

Concen: 93.809 ng

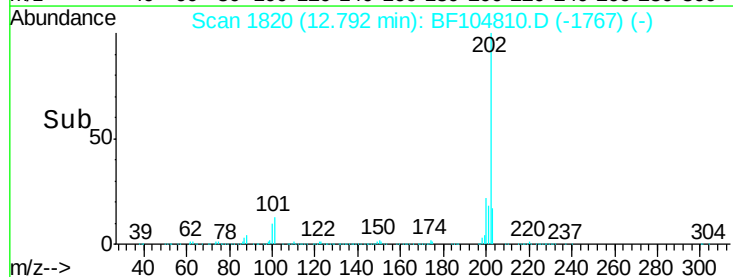
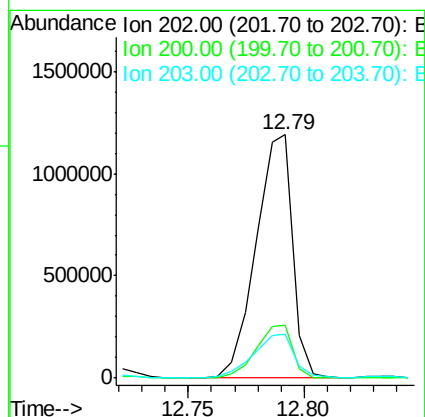
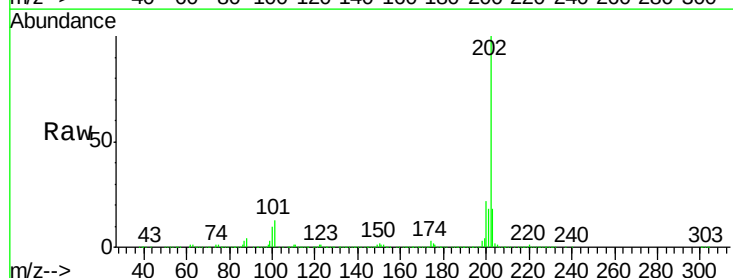
RT: 12.79 min Scan# 1820

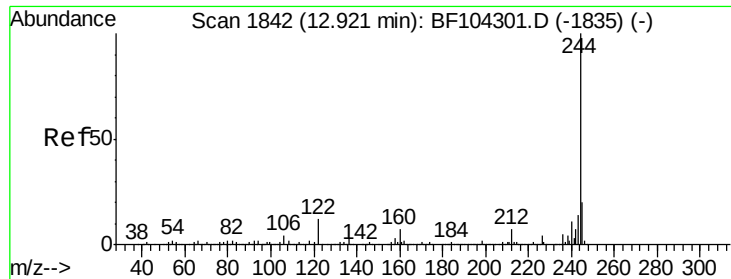
Delta R.T. 0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	21.7	17.4	26.2		
203	18.2	14.3	21.5		





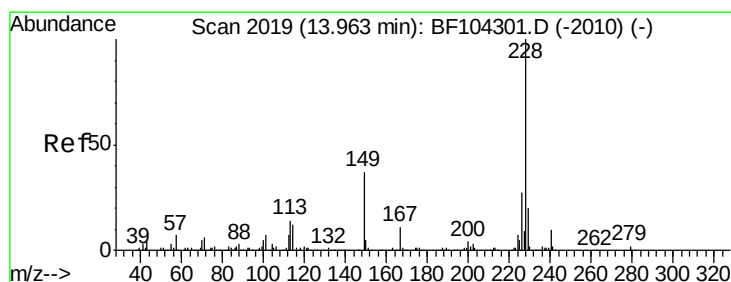
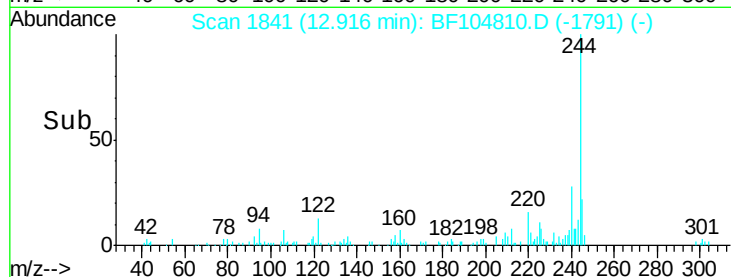
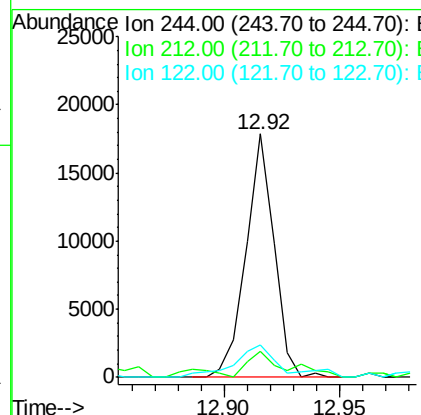
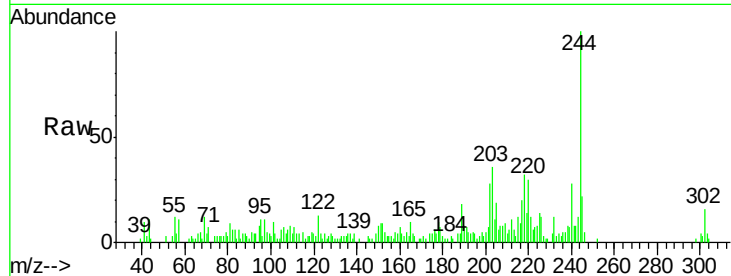
#78
 Terphenyl-d14
 Concen: 1.849 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-N-3

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.7	5.4	8.0#
122	13.2	11.0	16.4

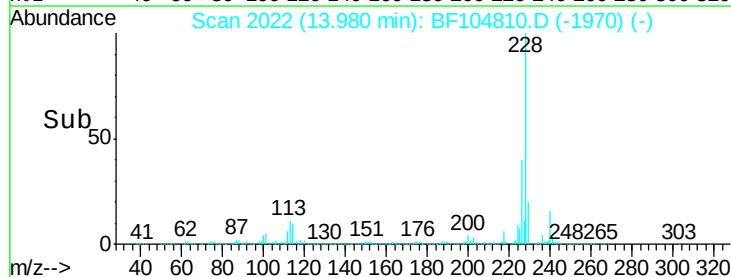
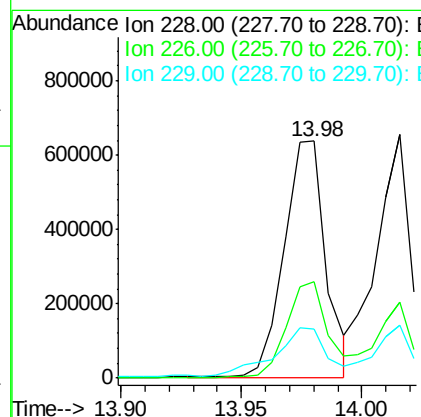
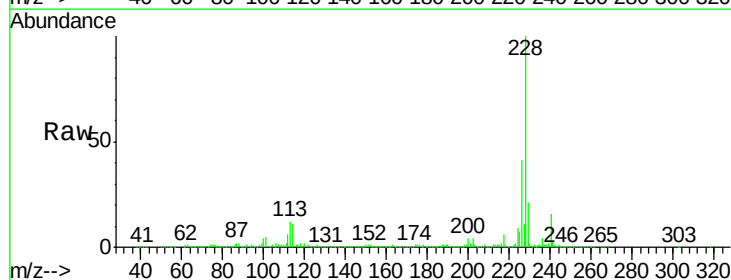
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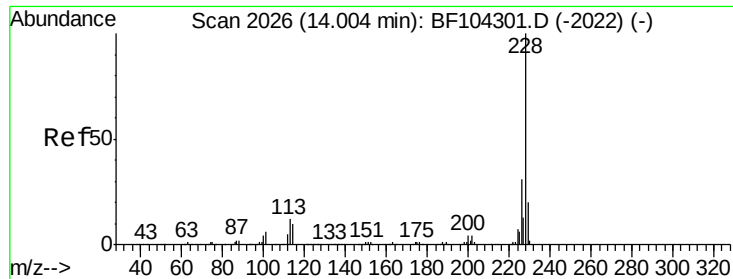
Sohil
 4/26/2018 6:14:55 PM



#80
 Benzo(a)anthracene
 Concen: 68.630 ng m
 RT: 13.98 min Scan# 2022
 Delta R.T. 0.01 min
 Lab File: BF104810.D
 Acq: 26 Apr 2018 2:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.9	22.6	33.8#
229	20.9	15.8	23.6





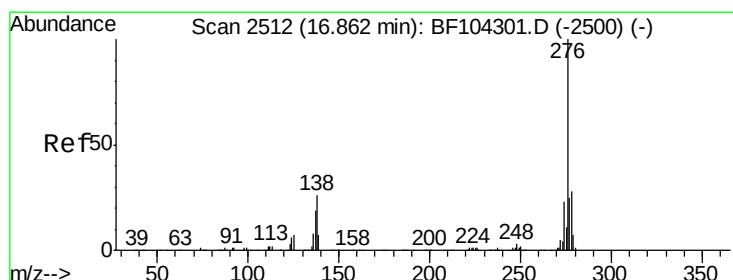
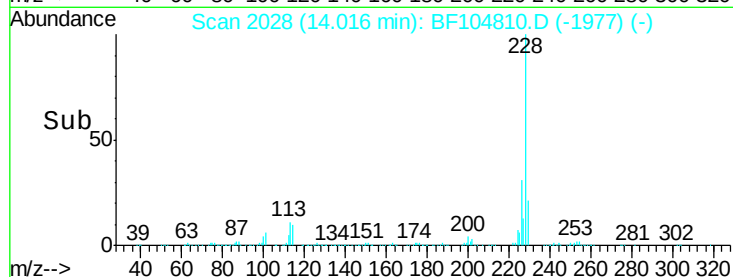
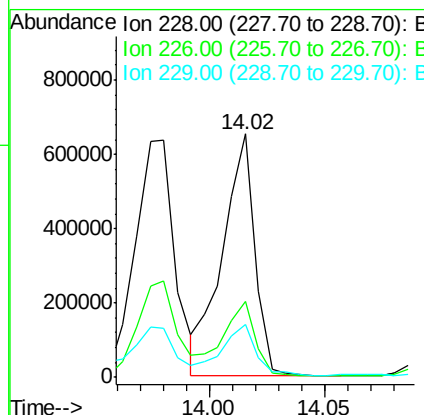
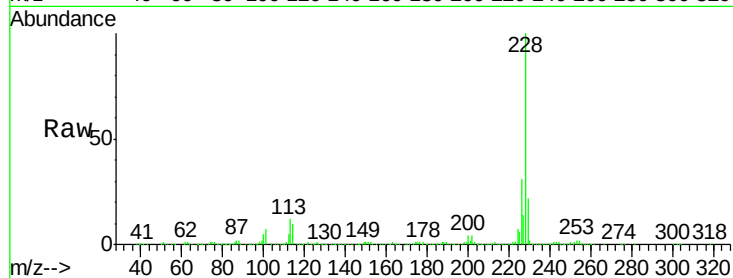
#82
Chrysene
Concen: 55.046 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.00 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3

Tot Ion:	228	Resp:	634823
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.0	37.6
229	22.0	16.2	24.4

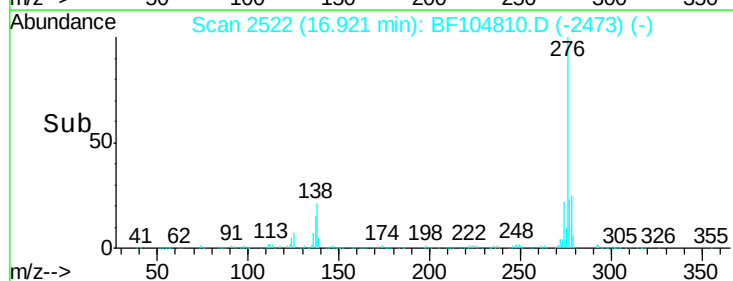
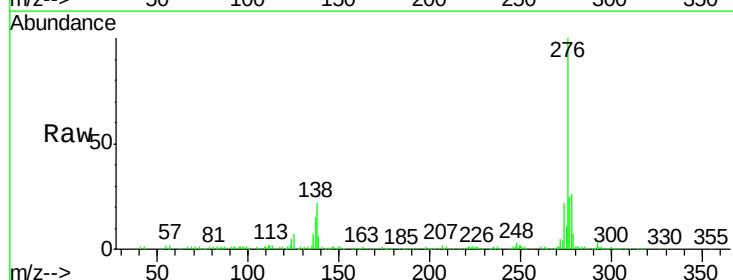
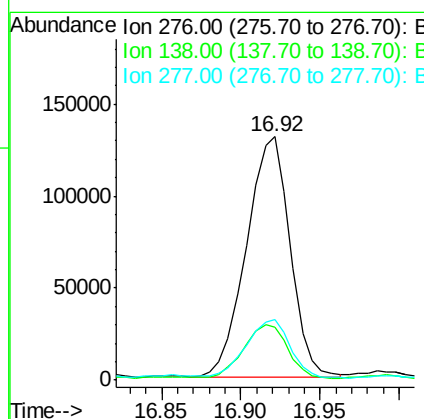
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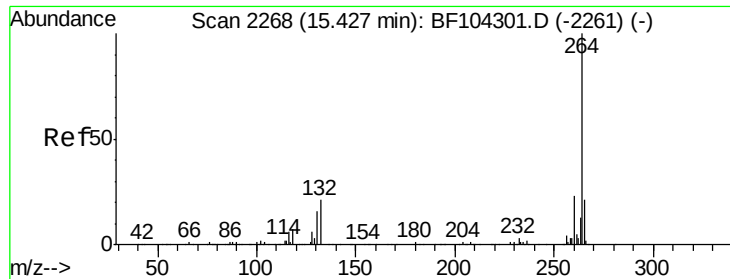
Sohil
4/26/2018 6:14:55 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 25.520 ng
RT: 16.92 min Scan# 2522
Delta R.T. -0.01 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Tgt Ion:	276	Resp:	250015
Ion Ratio	Lower	Upper	
276	100		
138	22.9	25.0	37.6#
277	24.6	20.1	30.1





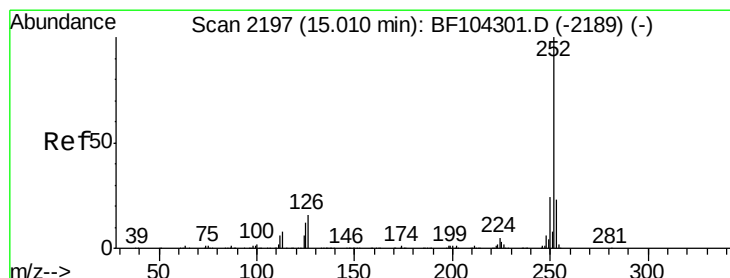
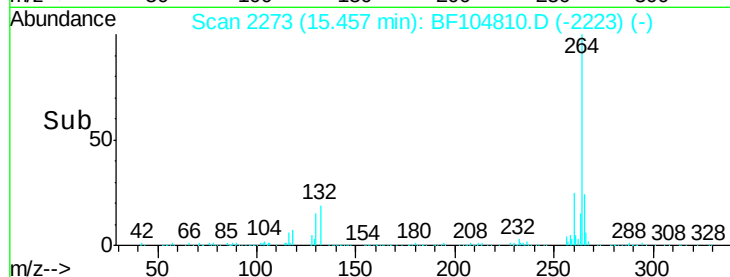
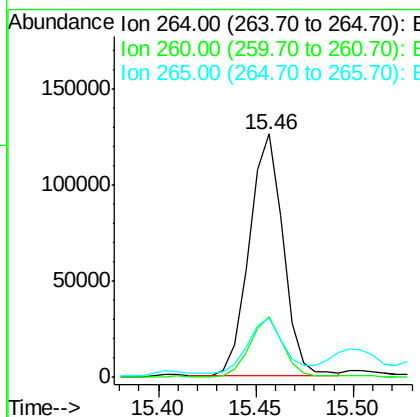
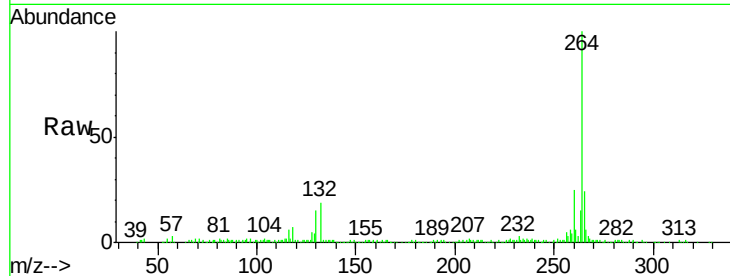
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. -0.01 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3

Tot Ion:	264	Resp:	151793
Ion Ratio	Lower	Upper	
264	100		
260	25.1	19.2	28.8
265	24.2	17.5	26.3

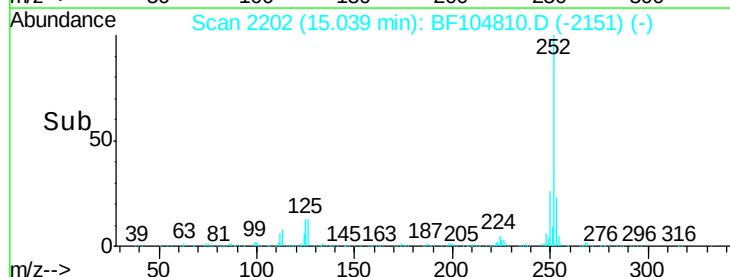
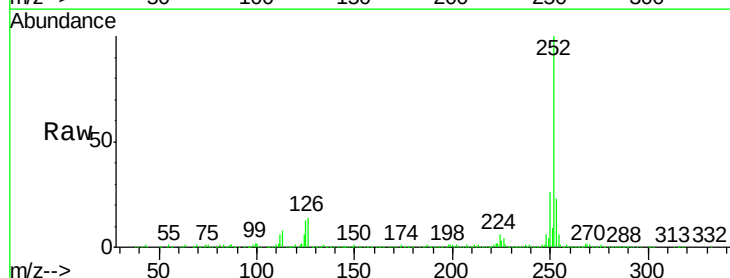
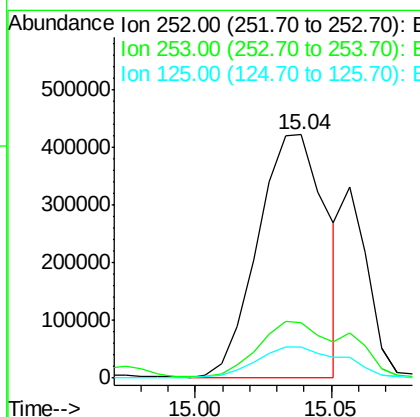
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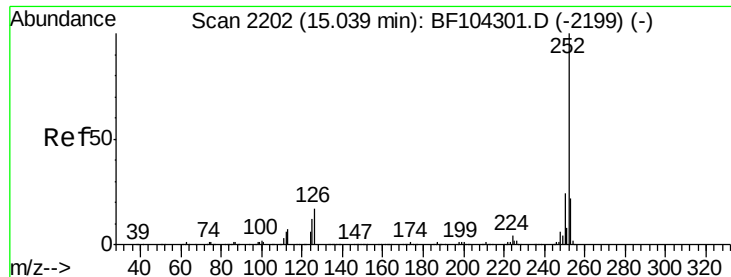
Sohil
4/26/2018 6:14:55 PM



#87
Benzo(b)fluoranthene
Concen: 77.065 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.00 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Tgt Ion:	252	Resp:	738822
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.0	25.6
125	13.0	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 24.190 ng/mL

RT: 15.06 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Instrument :

BNA_F

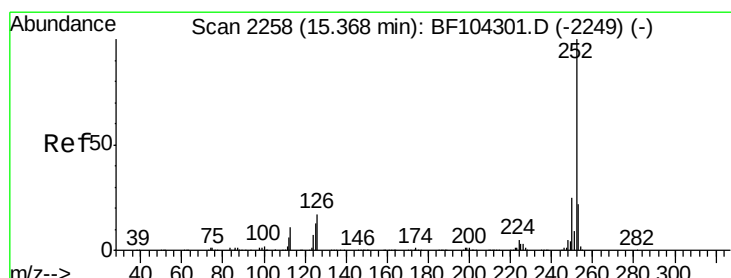
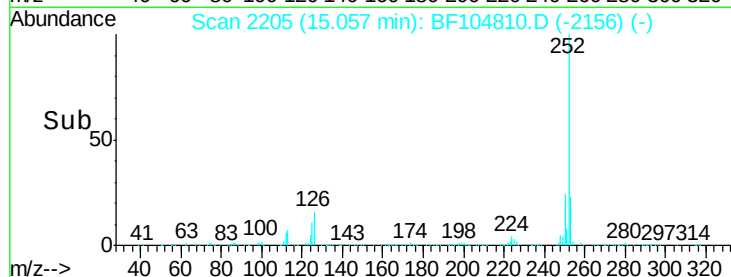
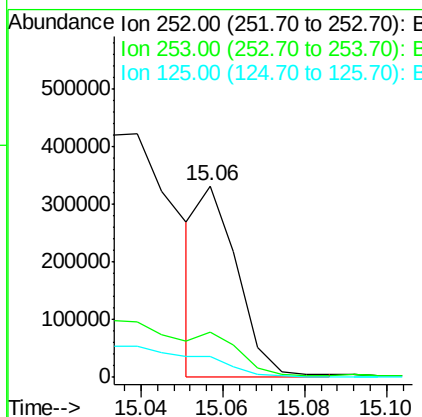
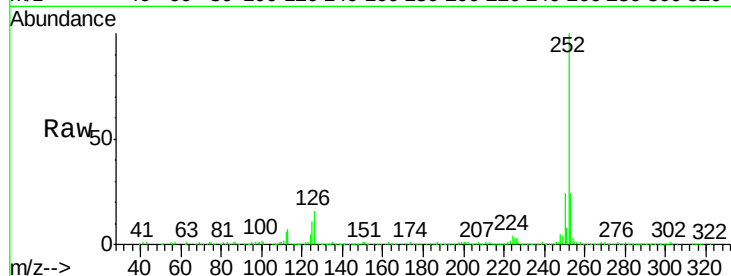
ClientSampled :

A2-SB01-N-3

Tot Ion:	252	Resp:	218947
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	11.2	10.2	15.2

Manual Integrations
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4/26/2018 6:14:55 PM



#89

Benzo(a)pyrene

Concen: 62.900 ng/mL

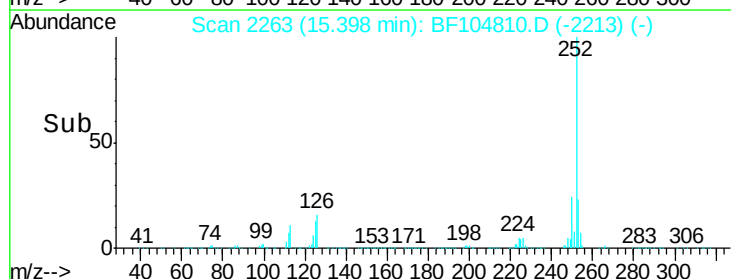
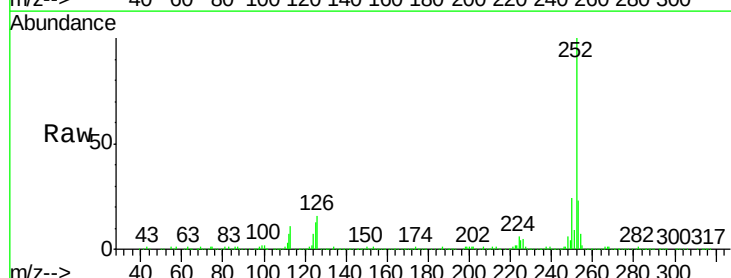
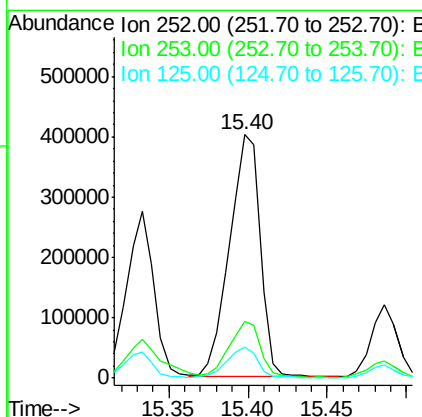
RT: 15.40 min Scan# 2263

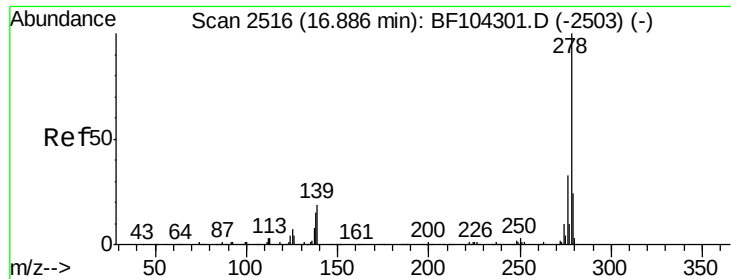
Delta R.T. -0.01 min

Lab File: BF104810.D

Acq: 26 Apr 2018 2:05

Tgt Ion:	252	Resp:	539550
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.1	25.7
125	12.7	9.8	14.6





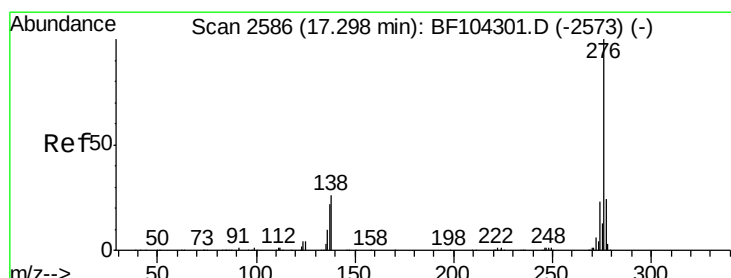
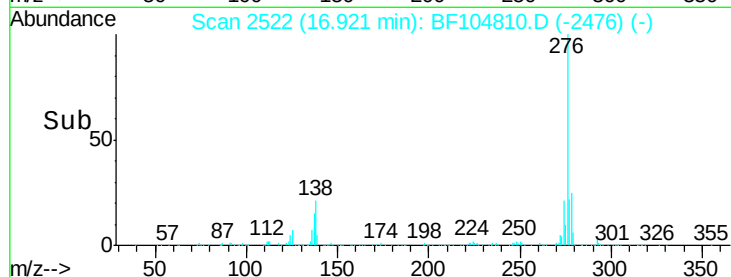
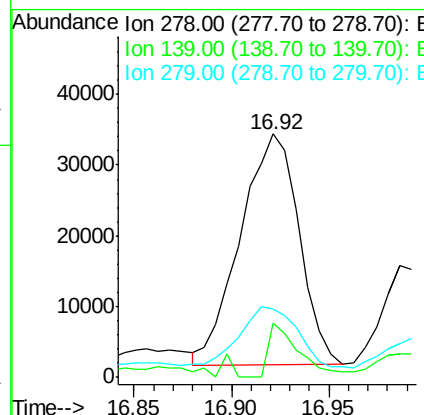
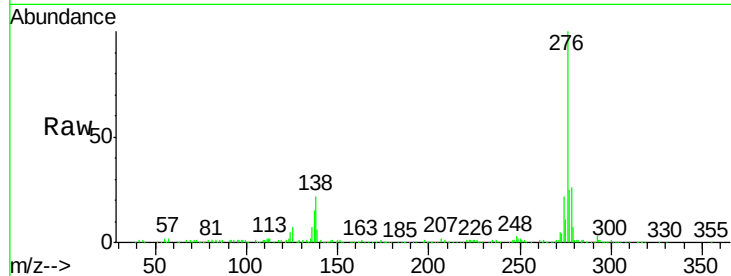
#90
Dibenzo(a,h)anthracene
Concen: 9.601 ng
RT: 16.92 min Scan# 2522
Delta R.T. -0.03 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Instrument :
BNA_F
ClientSampleId :
A2-SB01-N-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.4	15.9	23.9
279	28.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/26/2018 6:14:55 PM



#91
Benzo(g,h,i)perylene
Concen: 35.094 ng
RT: 17.37 min Scan# 2598
Delta R.T. -0.01 min
Lab File: BF104810.D
Acq: 26 Apr 2018 2:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	22.6	21.8	32.8

