

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102730.D
 Acq On : 5 Feb 2018 11:31
 Operator : SJ/JU
 Sample : J1014-03 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-013118

Manual Integrations
 APPROVED

Sohil
 2/6/2018 2:25:23 PM

Quant Time: Feb 05 13:17:39 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	216252	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	887718	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	386741	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	595780	20.00	ng	0.00
75) Chrysene-d12	14.05	240	351367	20.00	ng	0.00
86) Perylene-d12	15.53	264	353393	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	324423	22.78	ng	-0.01
7) Phenol-d6	6.49	99	390468	22.77	ng	-0.01
23) Nitrobenzene-d5	7.43	82	225247	17.60	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	71358	22.92	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	423803	18.18	ng	-0.01
78) Terphenyl-d14	12.99	244	290655	19.59	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.19	128	538973	12.427	ng	100
37) 2-Methylnaphthalene	8.87	142	271161	9.549	ng	99
48) Acenaphthylene	9.78	152	134916	3.387	ng	100
51) Acenaphthene	9.95	154	209121	8.779	ng	97
54) Dibenzofuran	10.12	168	265065	7.896	ng	99
57) Fluorene	10.46	166	381086	15.603	ng	98
70) Phenanthrene	11.43	178	1776586	53.542	ng	99
71) Anthracene	11.48	178	644447	19.096	ng	99
72) Carbazole	11.63	167	217247	6.571	ng	99
74) Fluoranthene	12.63	202	2007206	60.125	ng	100
77) Pyrene	12.86	202	1840388	66.795	ng	99
80) Benzo(a)anthracene	14.04	228	1049825	47.508	ng	97
82) Chrysene	14.07	228	853640	38.322	ng	97
85) Indeno(1,2,3-cd)pyrene	17.02	276	474043	25.659	ng	95
87) Benzo(b)fluoranthene	15.10	252	1177506m	51.393	ng	
88) Benzo(k)fluoranthene	15.12	252	355168m	16.224	ng	
89) Benzo(a)pyrene	15.47	252	851903	41.308	ng	96
90) Dibenzo(a,h)anthracene	17.03	278	125496m	7.497	ng	
91) Benzo(a,h,i)perylene	17.47	276	452941	27.645	ng	99

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

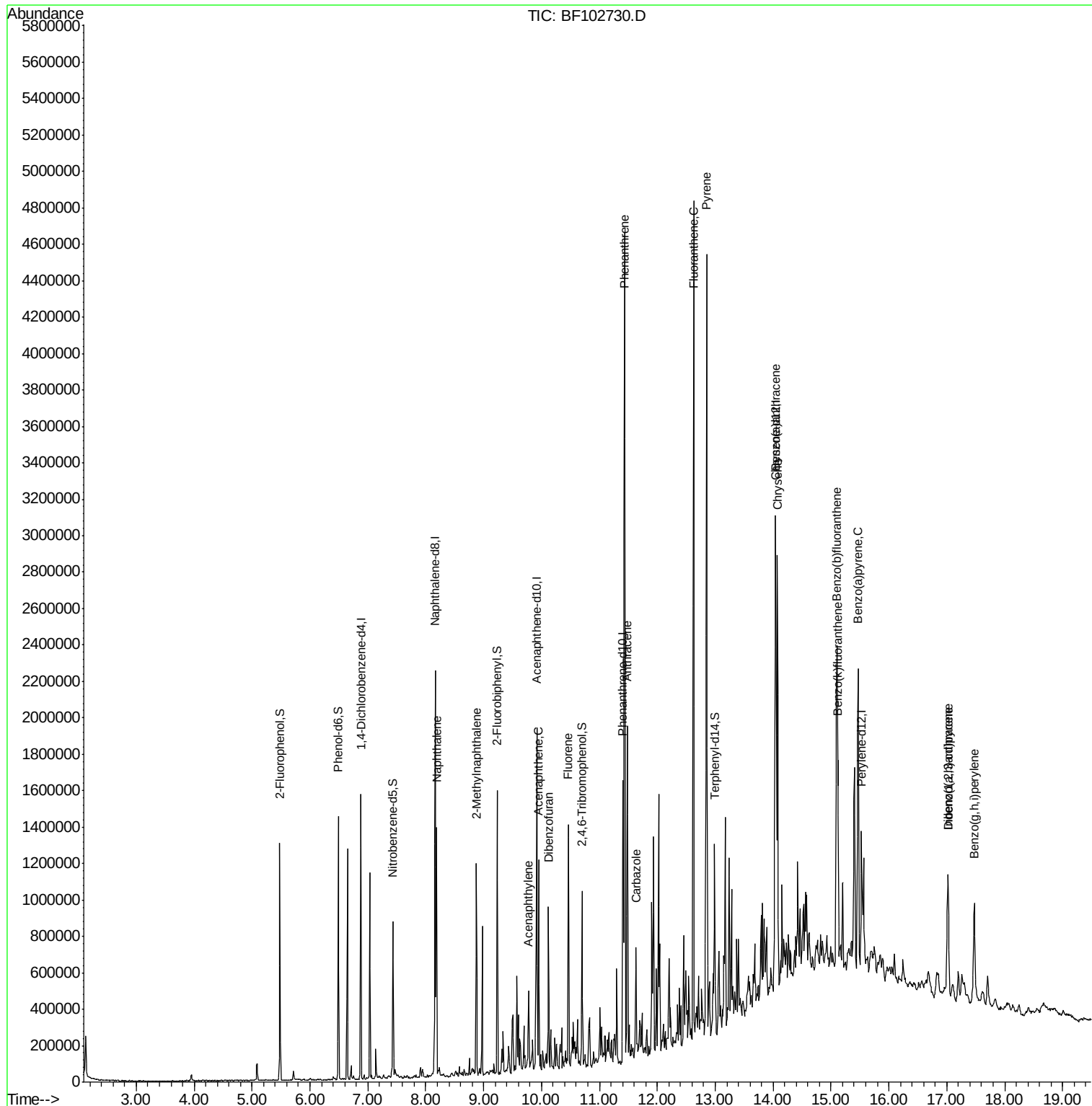
Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
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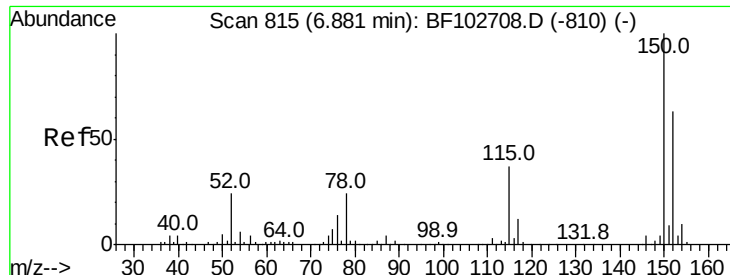
Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Manual Integrations
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

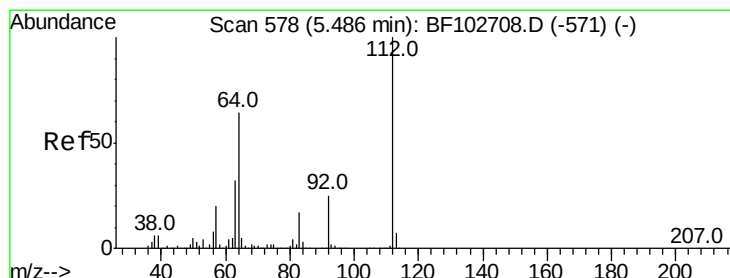
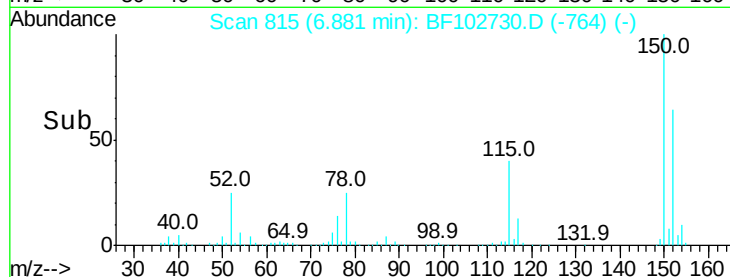
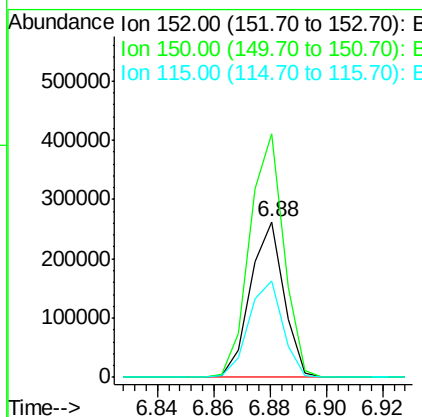
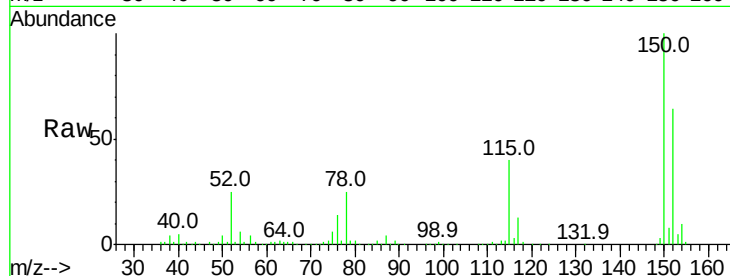
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampled :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	186.8
115	61.9	50.1	75.1

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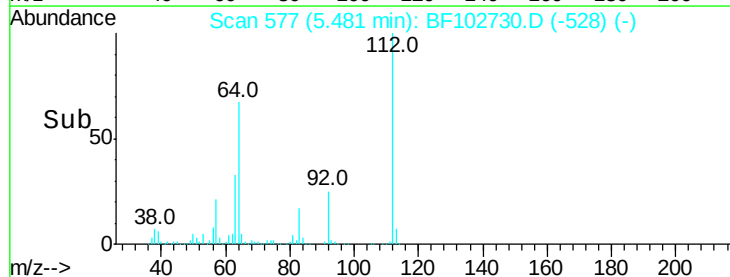
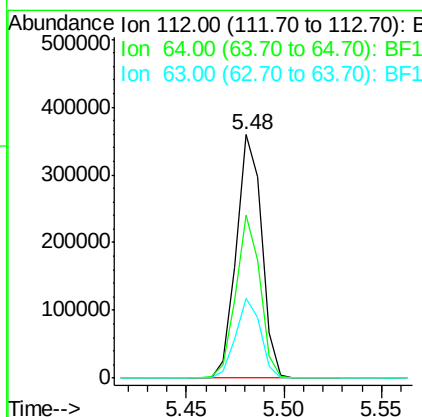
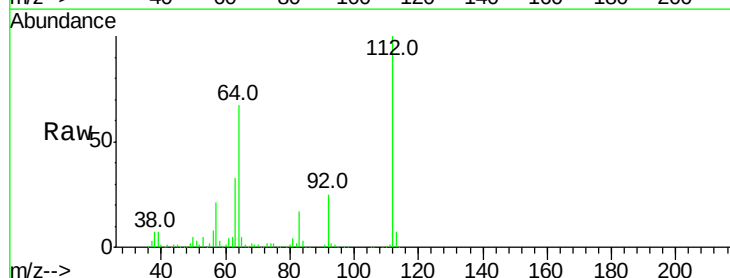
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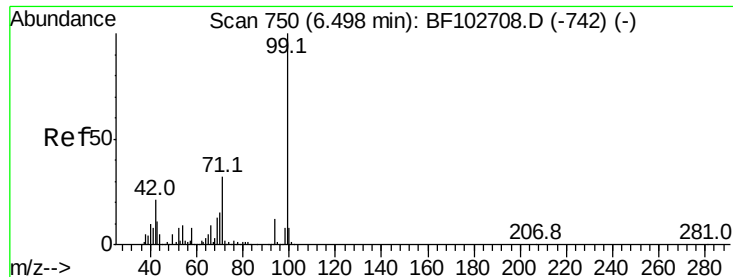


#5

2-Fluorophenol
Concen: 22.783 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	47.9	71.9
63	32.8	23.7	35.5





#7

Phenol-d6

Concen: 22.774 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

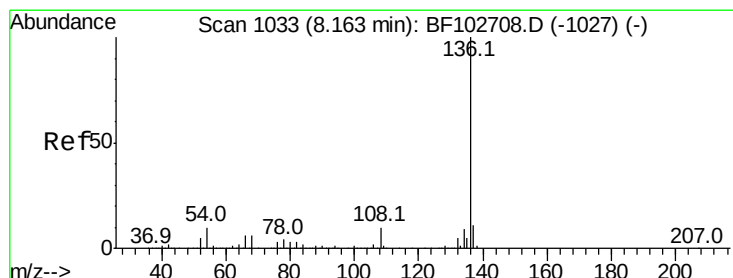
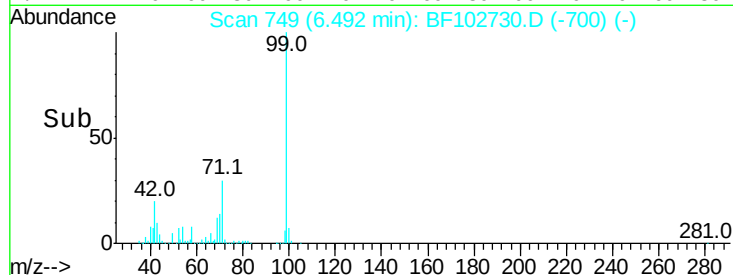
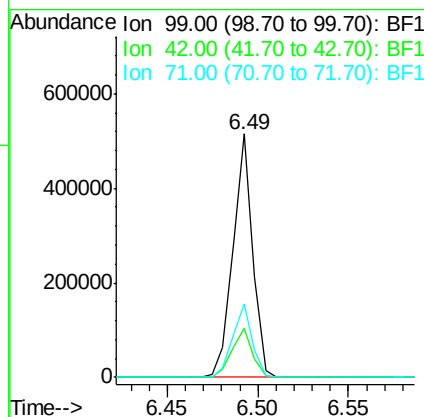
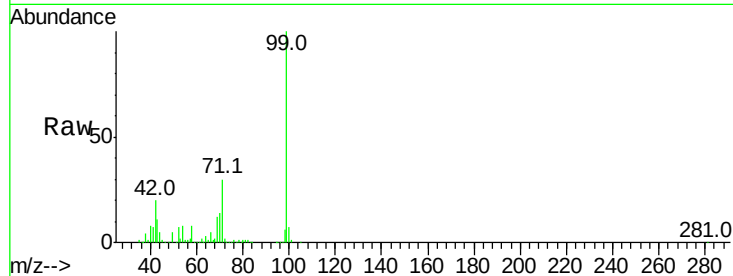
ClientSampleId :

HD-02-013118

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		390468		
42	20.3	14.5	21.7		
71	30.0	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

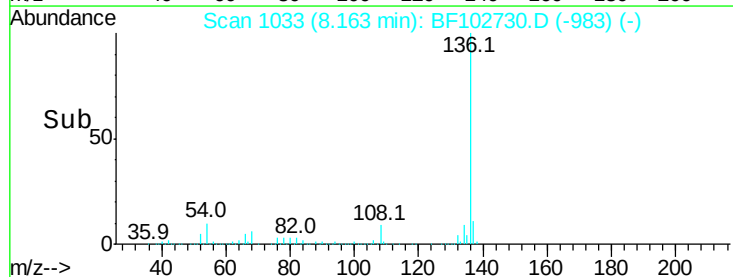
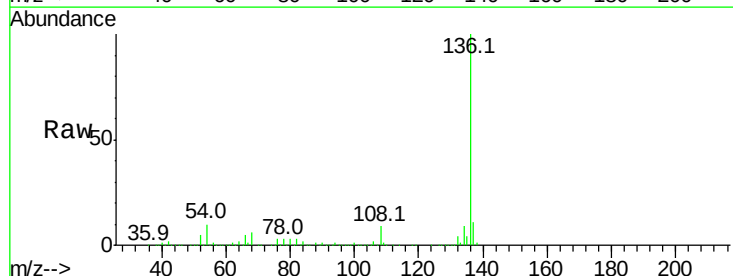
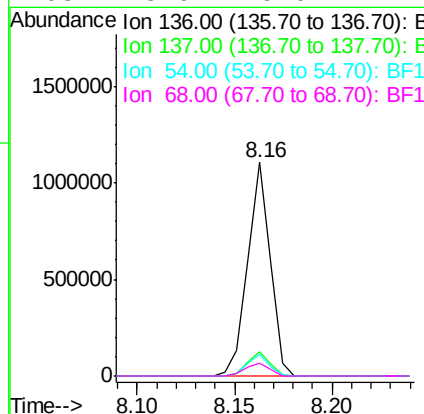
RT: 8.16 min Scan# 1033

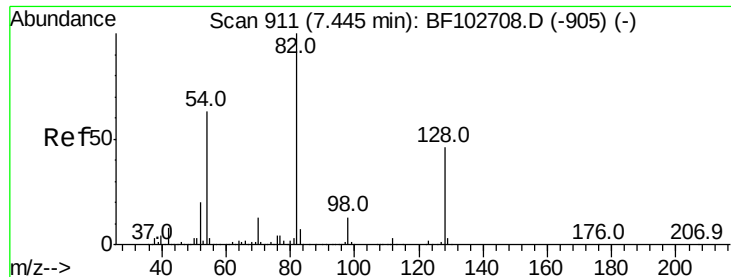
Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		887718		
137	11.2	8.9	13.3		
54	10.1	6.6	9.8		
68	5.9	5.0	7.4		





#23

Nitrobenzene-d5

Concen: 17.602 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.02 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

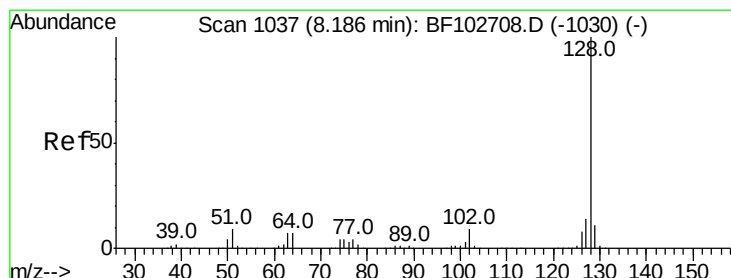
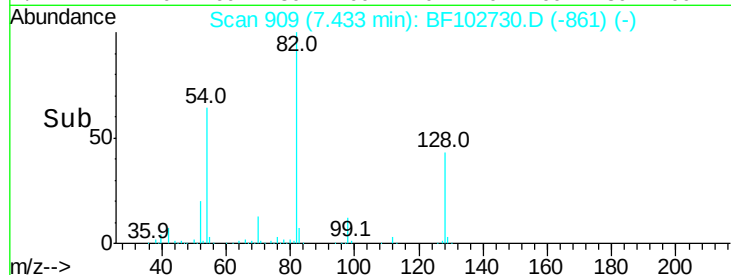
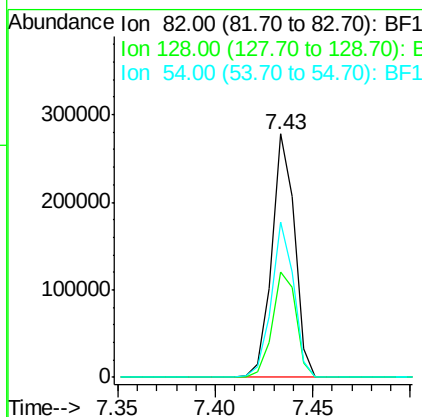
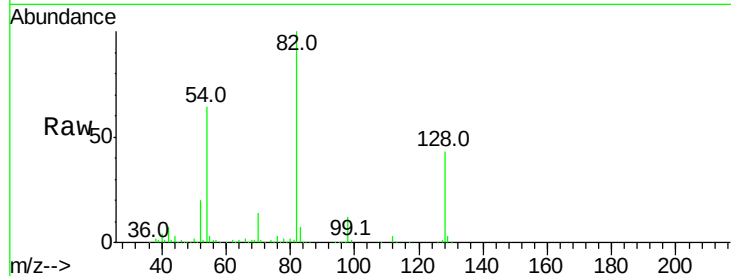
ClientSampleId :

HD-02-013118

Tot Ion:	82	Resp:	225247
Ion Ratio	Lower	Upper	
82	100		
128	43.2	36.1	54.1
54	63.9	41.4	62.2#

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#31

Naphthalene

Concen: 12.427 ng

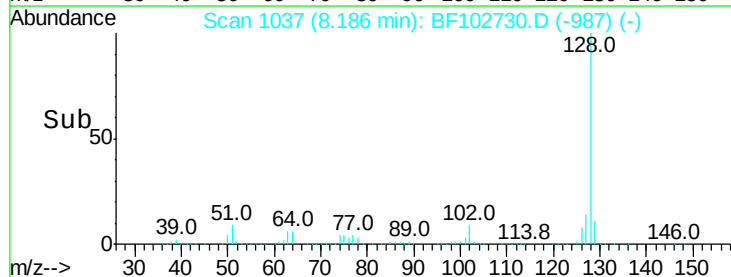
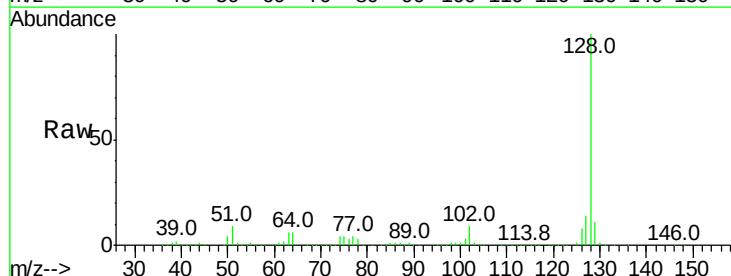
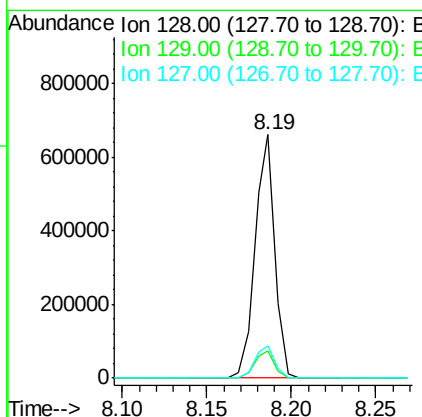
RT: 8.19 min Scan# 1037

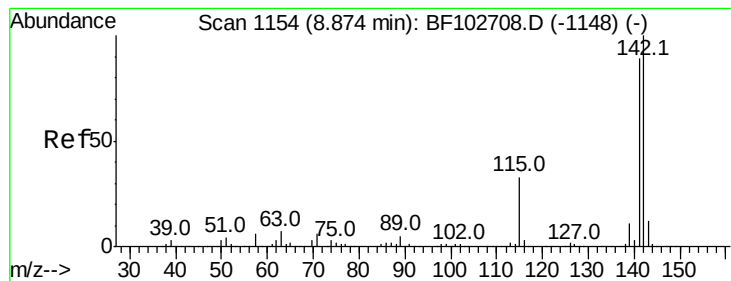
Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Tgt Ion:	128	Resp:	538973
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.8	13.2
127	13.6	10.9	16.3





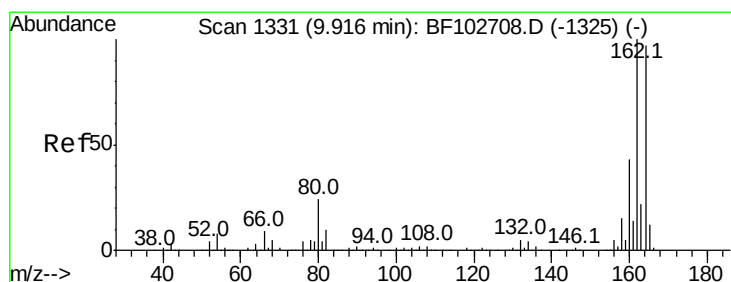
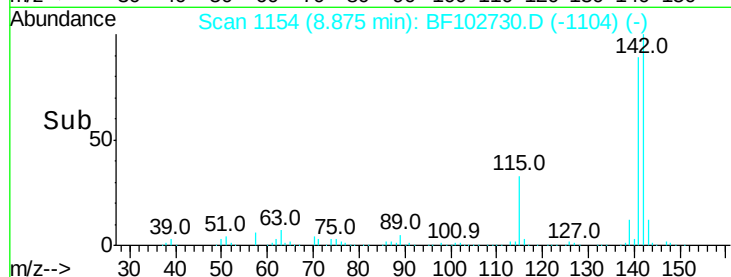
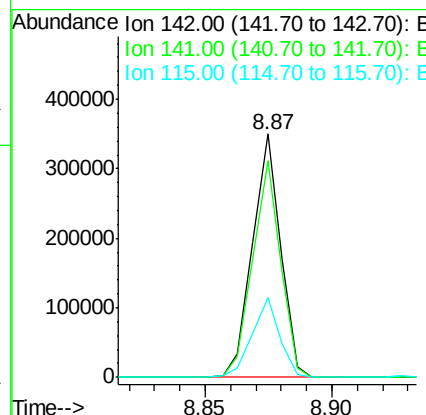
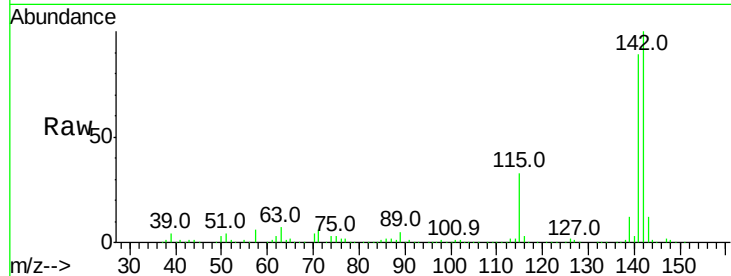
#37
2-Methylnaphthalene
Concen: 9.549 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.8	106.2
115	32.6	26.1	39.1

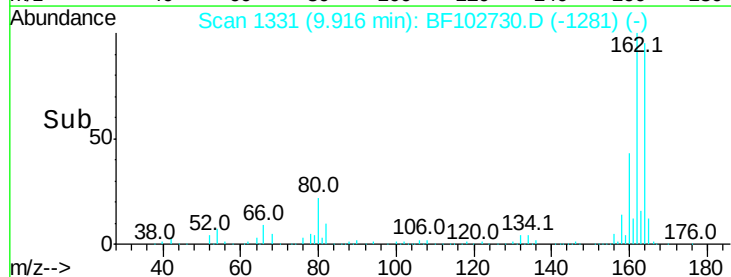
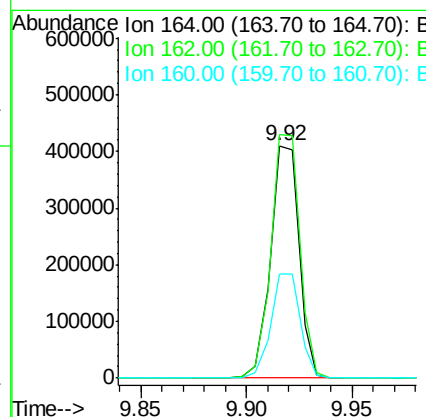
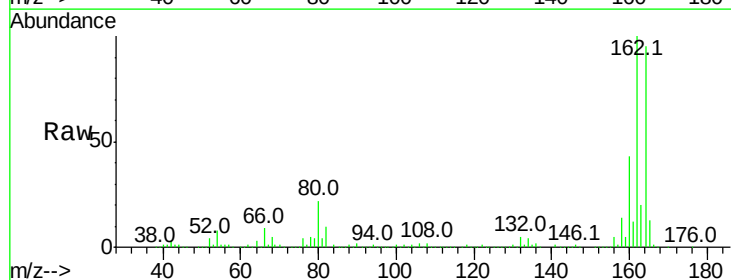
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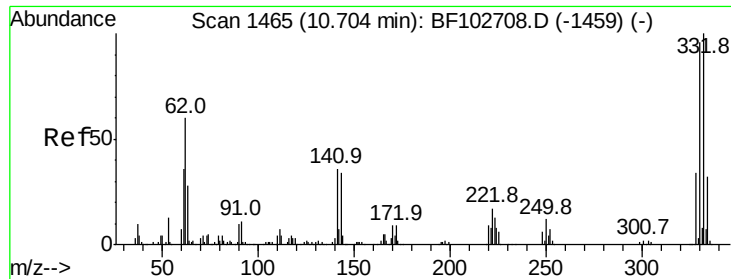
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	86.1	129.1
160	44.9	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 22.924 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

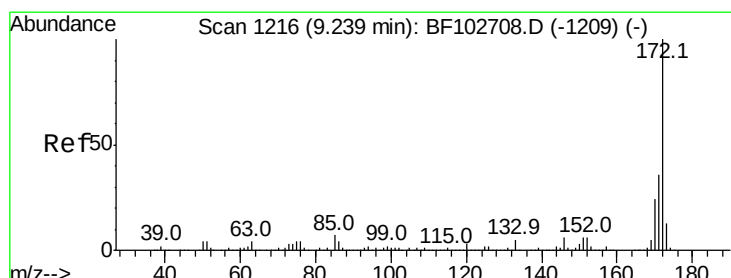
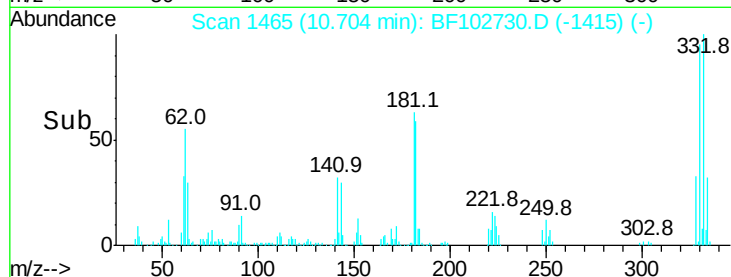
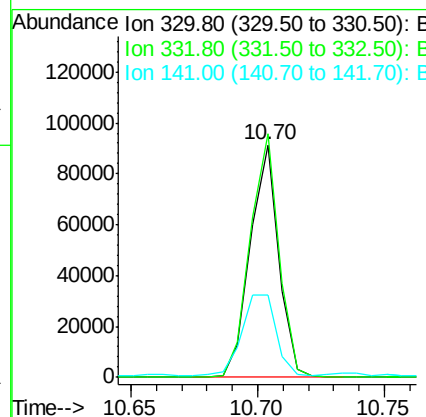
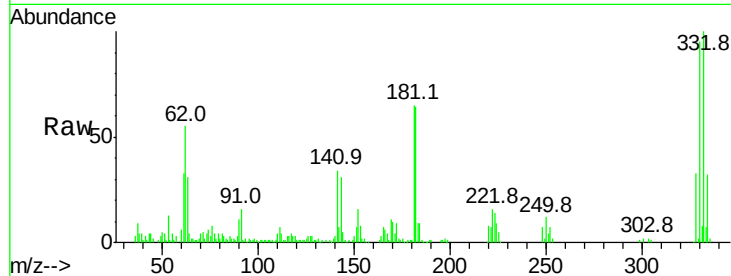
ClientSampleId :

HD-02-013118

Tot Ion:	330	Resp:	71358
Ion Ratio	Lower	Upper	
330	100		
332	106.2	77.0	115.6
141	42.7	29.9	44.9

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#44

2-Fluorobiphenyl

Concen: 18.184 ng

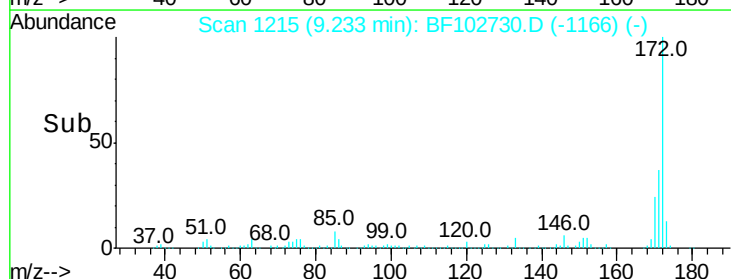
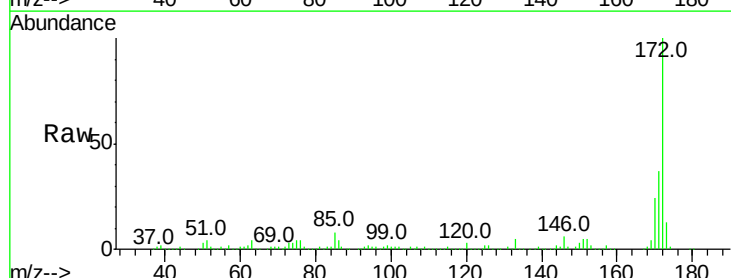
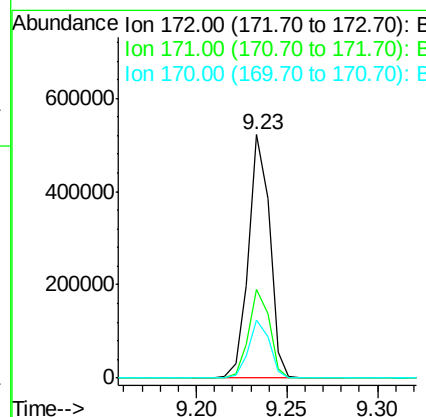
RT: 9.23 min Scan# 1215

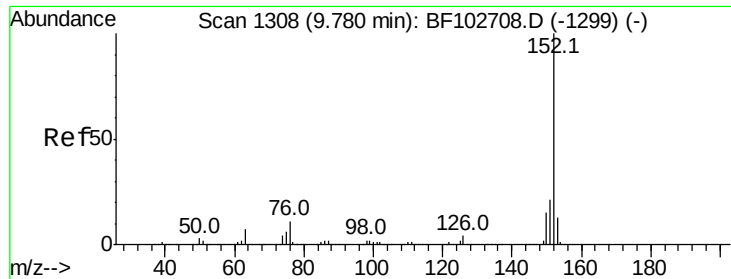
Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Tgt Ion:	172	Resp:	423803
Ion Ratio	Lower	Upper	
172	100		
171	36.6	29.7	44.5
170	23.8	19.6	29.4





#48

Acenaphthylene

Concen: 3.387 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

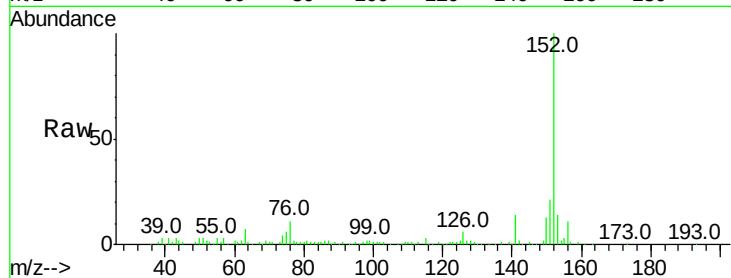
ClientSampleId :

HD-02-013118

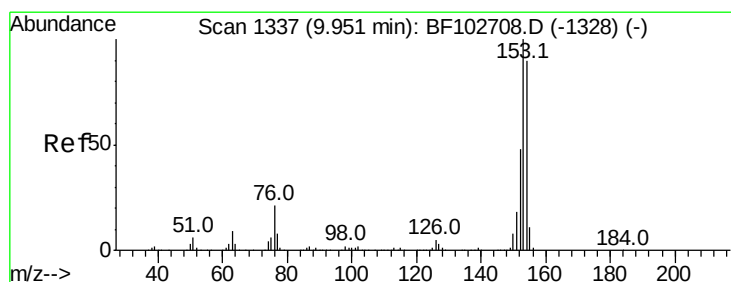
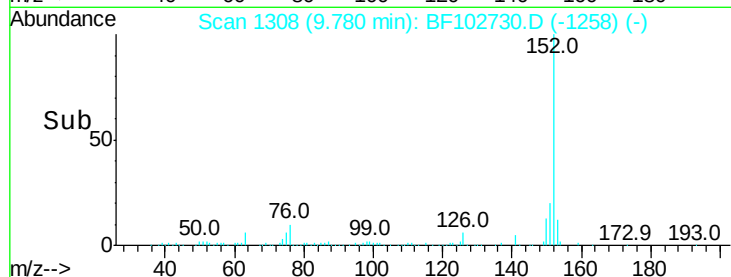
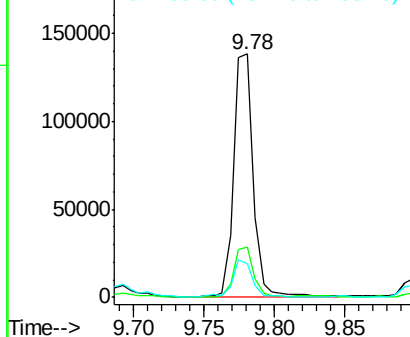
Tot Ion	Ratio	Resp	Lower	Upper
152	100	134916		
151	20.5	16.3	24.5	
153	13.7	10.7	16.1	

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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



#51

Acenaphthene

Concen: 8.779 ng

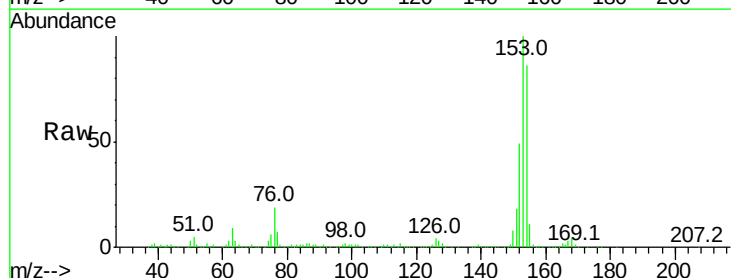
RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

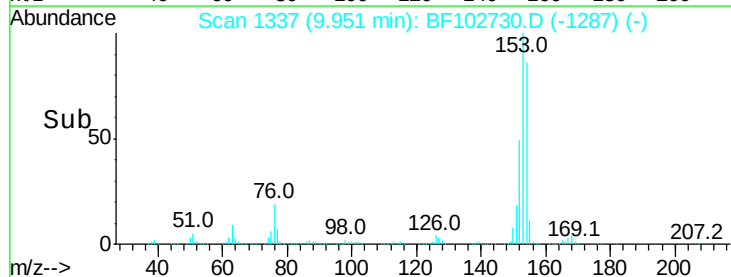
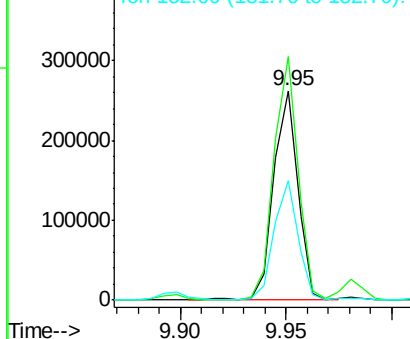
Lab File: BF102730.D

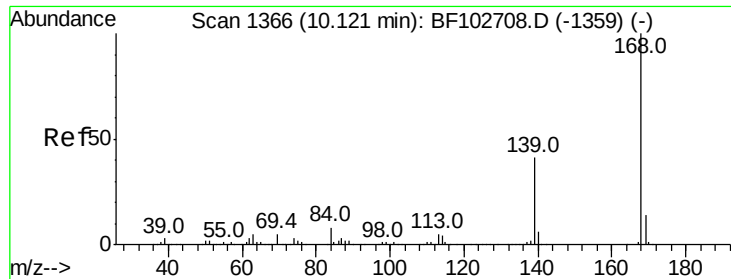
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	209121		
153	116.2	91.2	136.8	
152	57.3	43.8	65.8	



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

Dibenzenofuran

Concen: 7.896 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

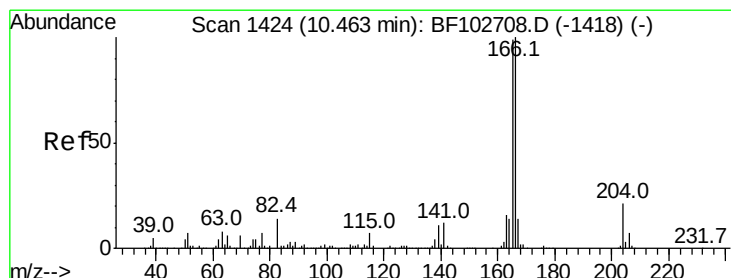
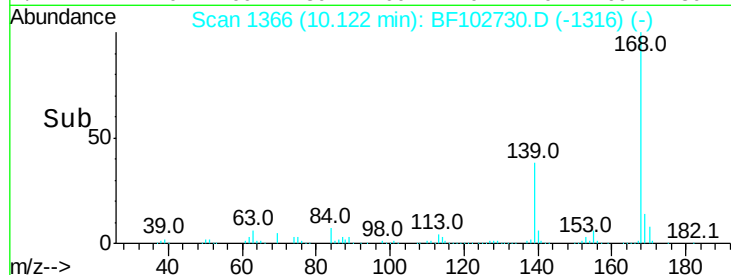
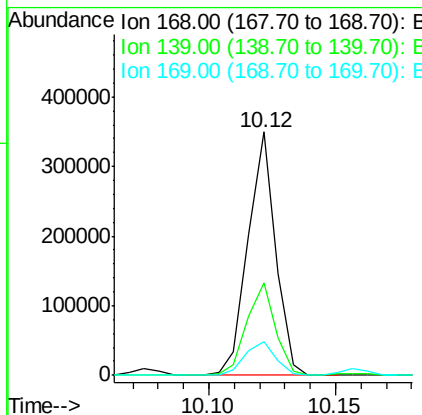
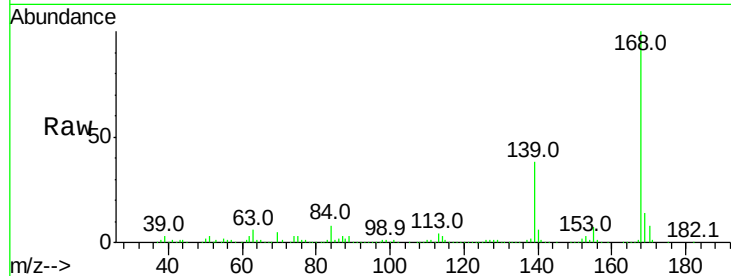
ClientSampleId :

HD-02-013118

Tot Ion:168	Resp:	265065
Ion Ratio	Lower	Upper
168 100		
139 38.2	30.1	45.1
169 14.0	10.9	16.3

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#57

Fluorene

Concen: 15.603 ng

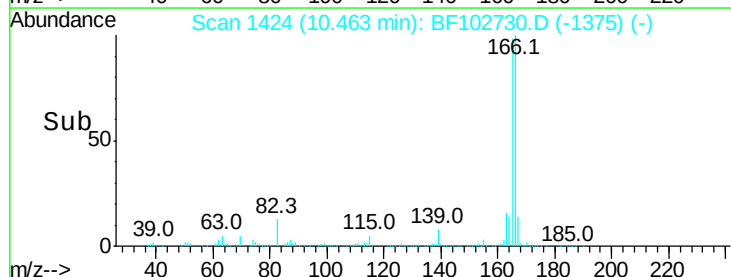
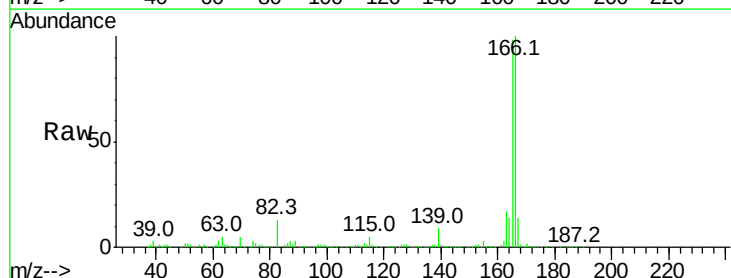
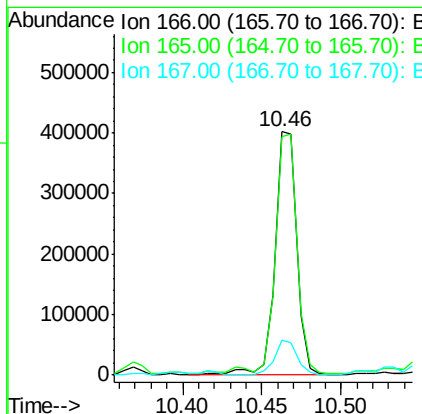
RT: 10.46 min Scan# 1424

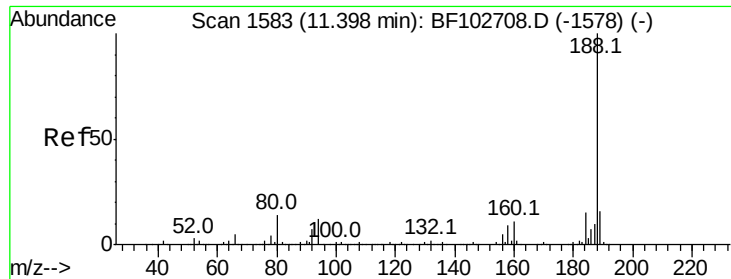
Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Tgt Ion:166	Resp:	381086
Ion Ratio	Lower	Upper
166 100		
165 98.2	79.8	119.8
167 14.1	10.6	16.0





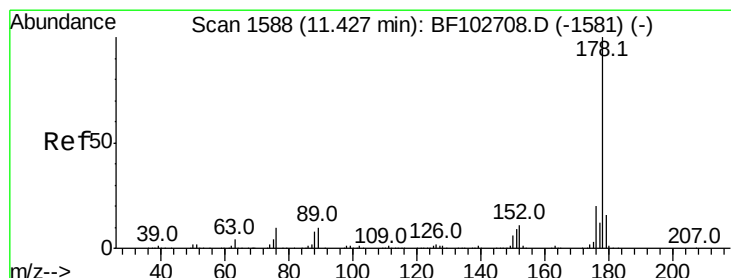
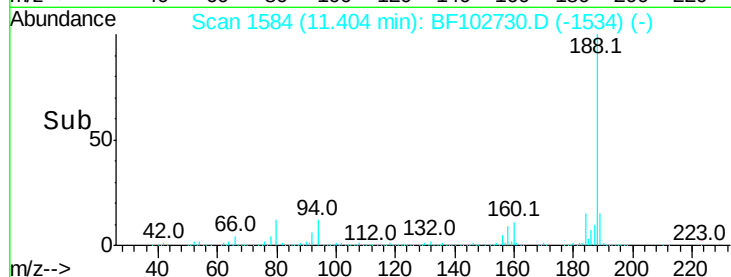
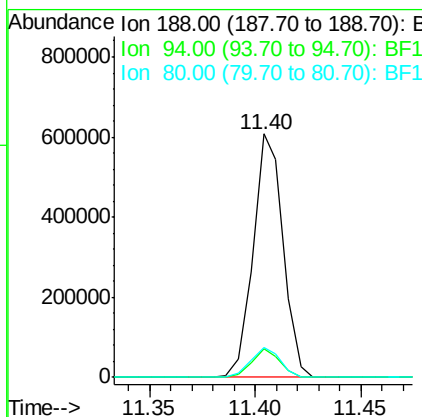
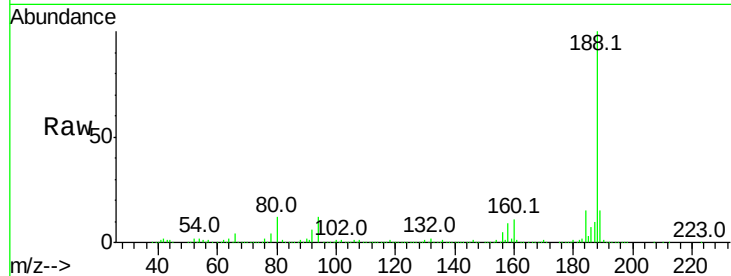
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Resp	Lower	Upper
188	100	595780		
94	11.7		8.5	12.7
80	12.5		9.2	13.8

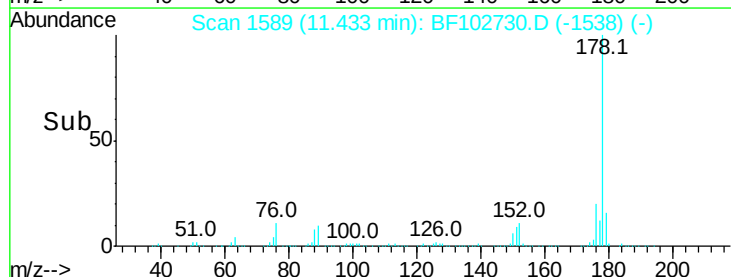
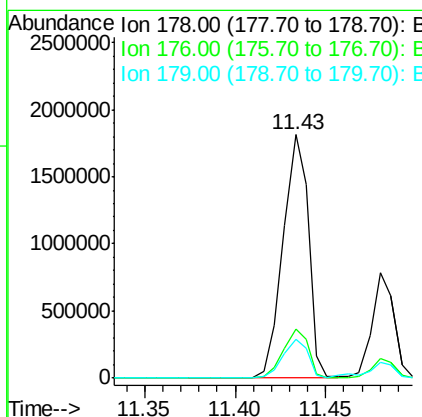
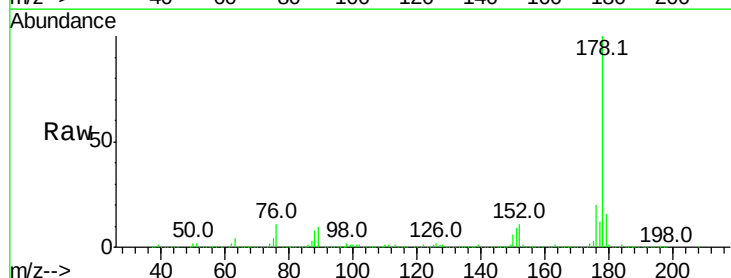
Manual Integrations
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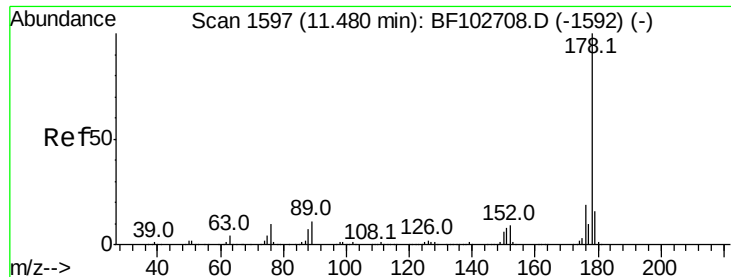
Sohil
2/6/2018 2:25:23 PM



#70
Phenanthrene
Concen: 53.542 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1776586		
176	20.3		15.8	23.8
179	15.8		13.0	19.6





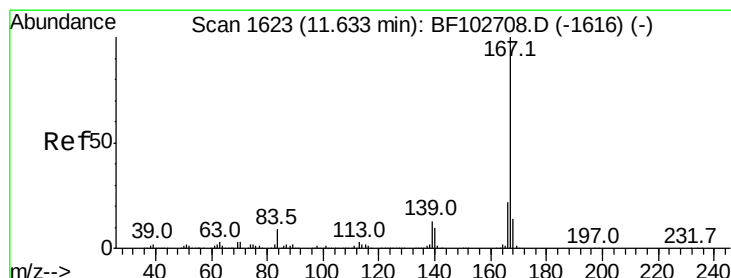
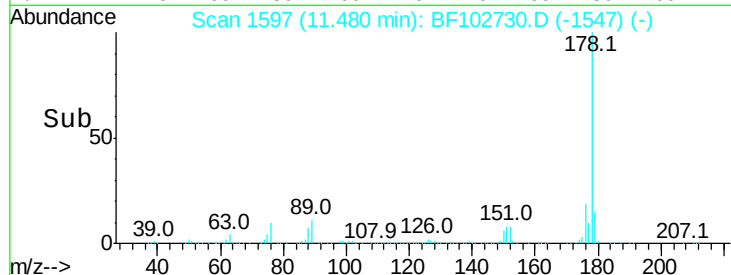
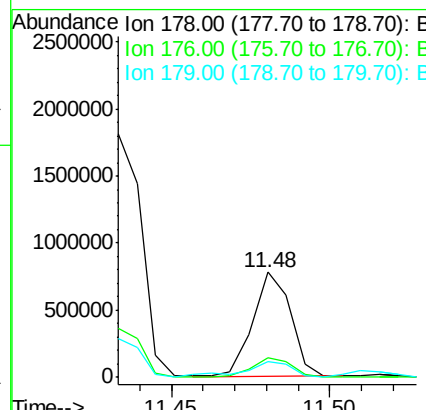
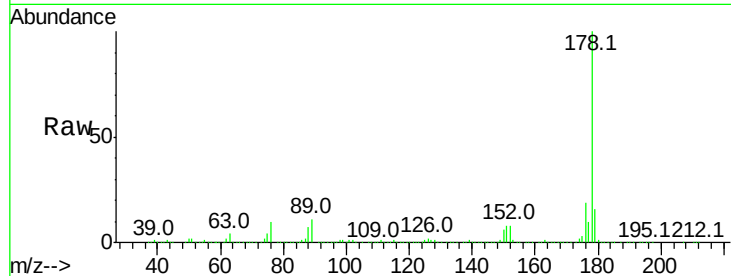
#71
 Anthracene
 Concen: 19.096 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF102730.D
 Acq: 5 Feb 2018 11:31

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-013118

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.6	12.6	19.0

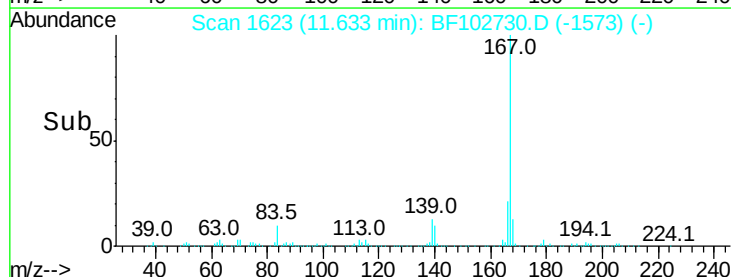
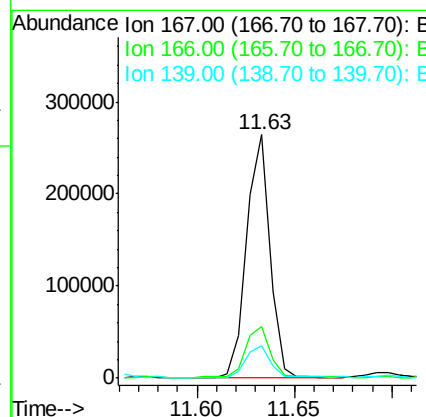
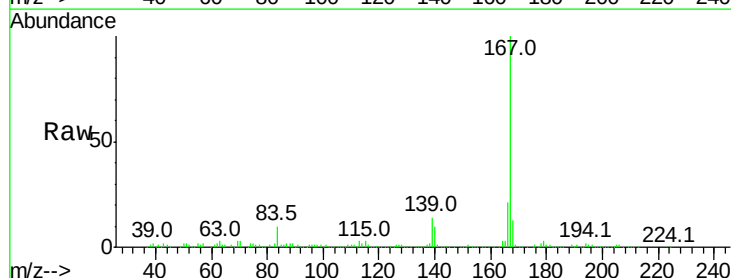
Manual Integrations
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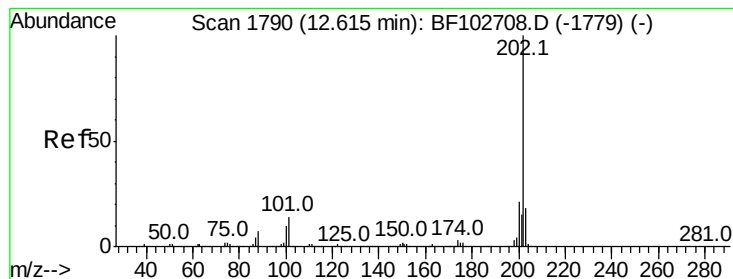
Sohil
 2/6/2018 2:25:23 PM



#72
 Carbazole
 Concen: 6.571 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BF102730.D
 Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.6	26.4
139	13.5	10.9	16.3





#74

Fluoranthene

Concen: 60.125 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

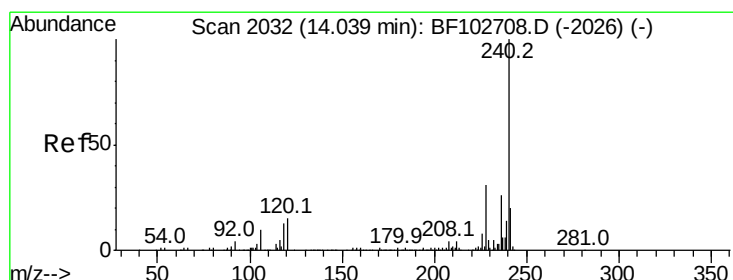
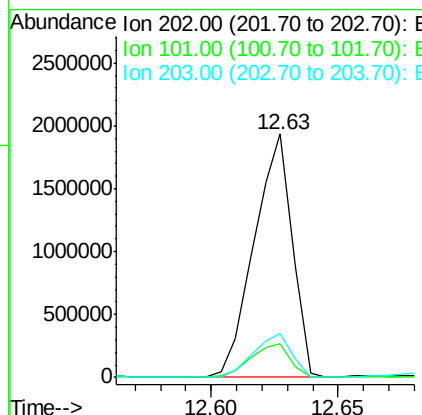
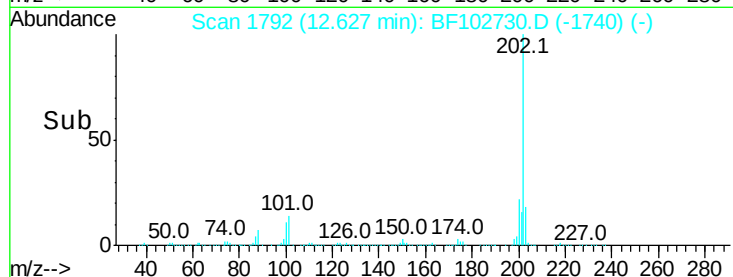
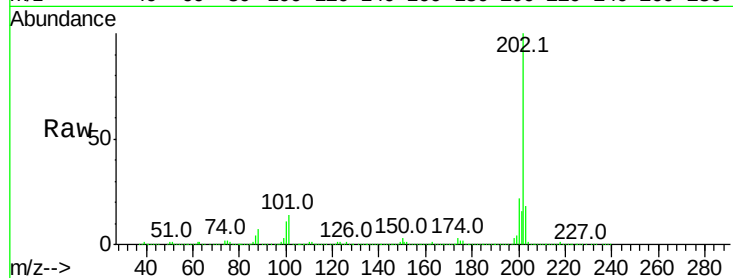
ClientSampleId :

HD-02-013118

Tot Ion:	202	Resp:	2007206
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

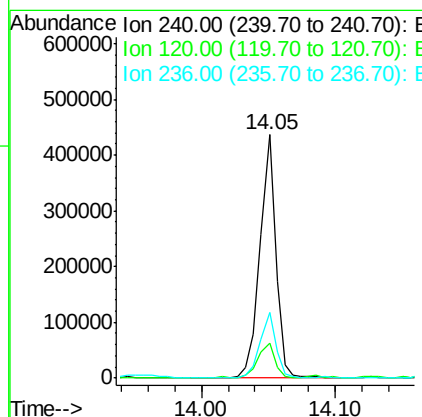
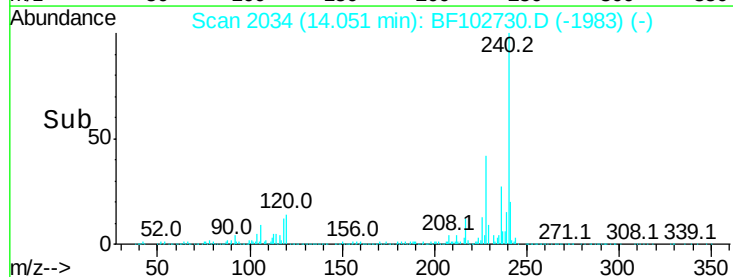
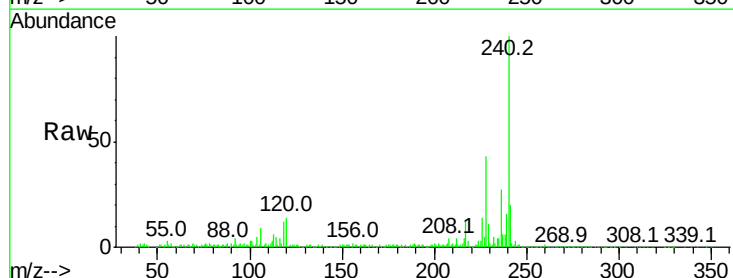
RT: 14.05 min Scan# 2034

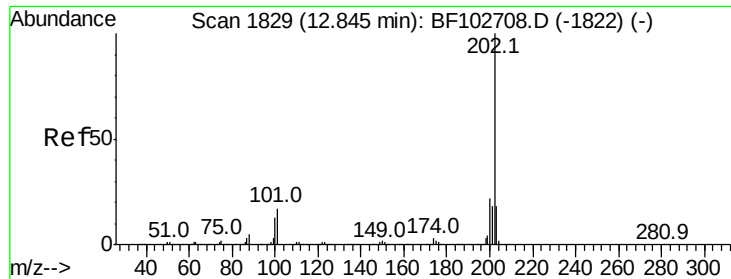
Delta R.T. -0.00 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Tgt Ion:	240	Resp:	351367
Ion Ratio	Lower	Upper	
240	100		
120	14.2	9.5	14.3
236	26.7	20.7	31.1





#77

Pvrene

Concen: 66.795 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

ClientSampleId :

HD-02-013118

Tot Ion:202 Resp: 1840388

Ion Ratio Lower Upper

202 100

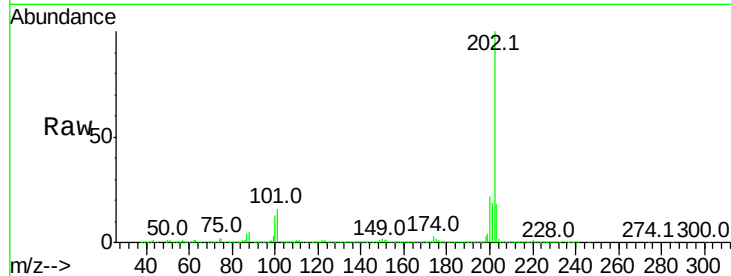
200 21.9 17.4 26.2

203 18.4 14.3 21.5

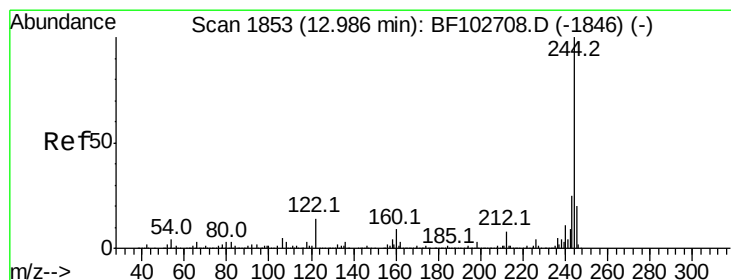
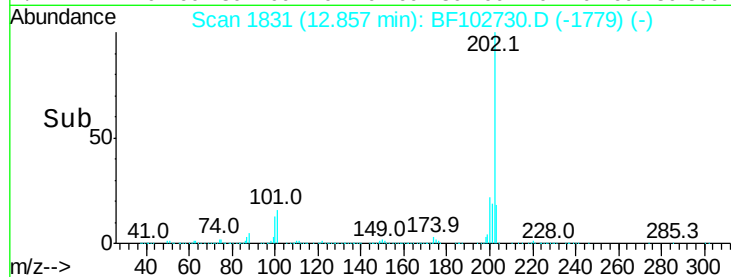
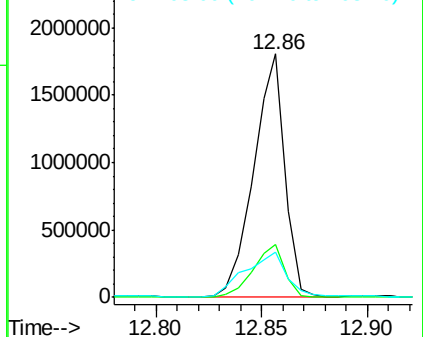
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 19.587 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

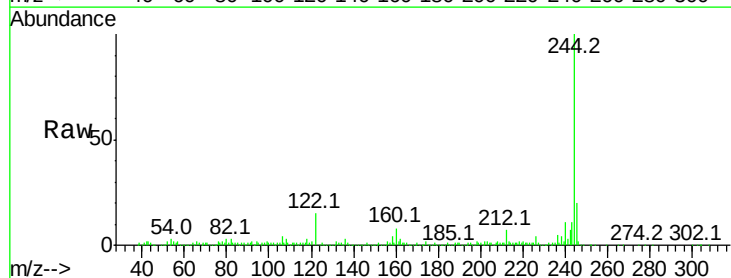
Tgt Ion:244 Resp: 290655

Ion Ratio Lower Upper

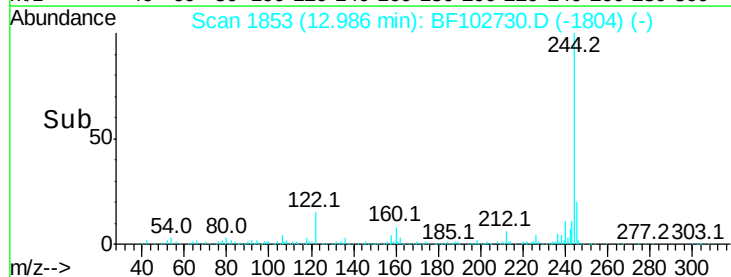
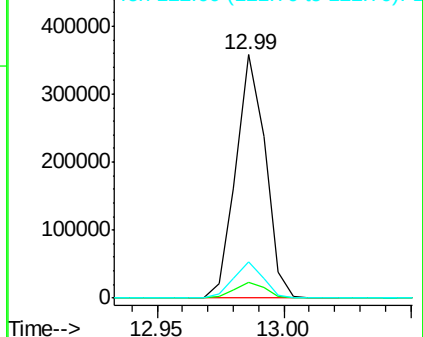
244 100

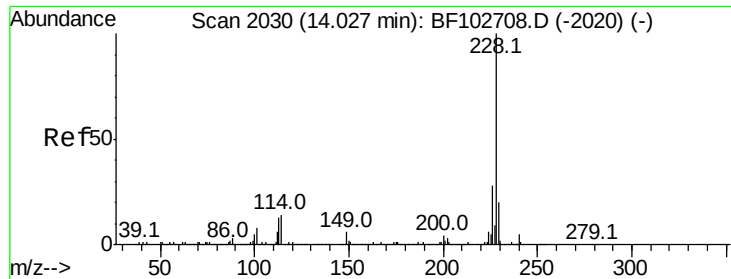
212 6.6 5.4 8.0

122 14.7 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





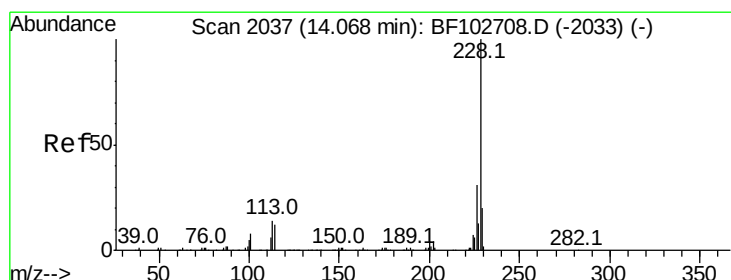
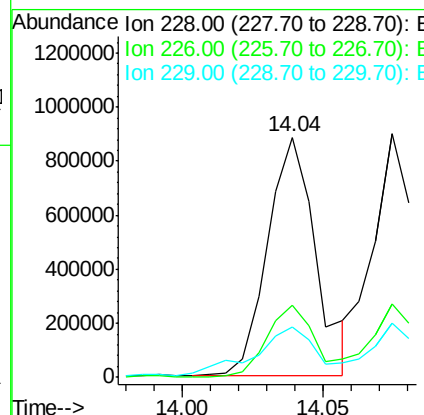
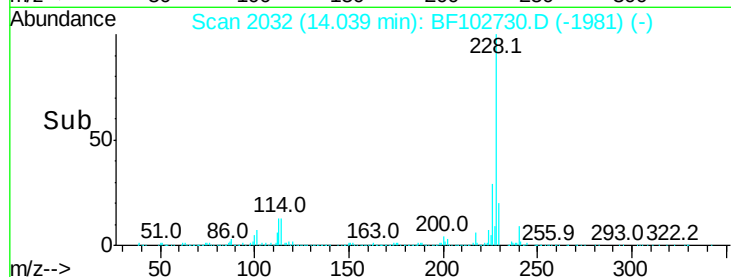
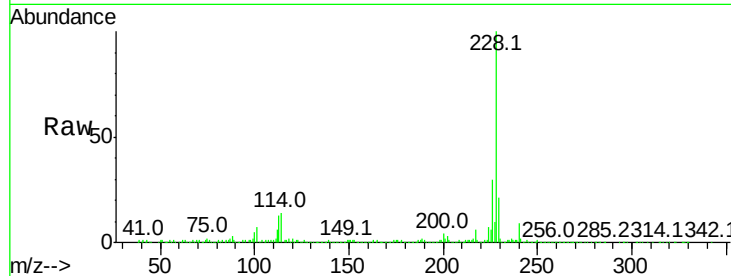
#80
Benzo(a)anthracene
Concen: 47.508 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	20.9	15.8	23.6

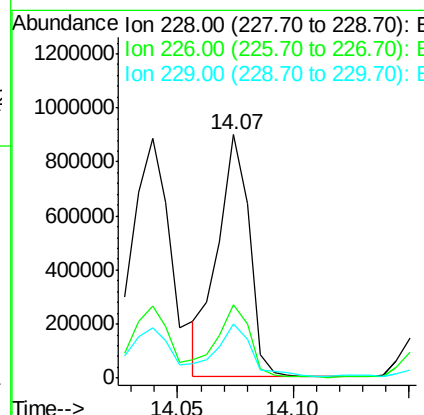
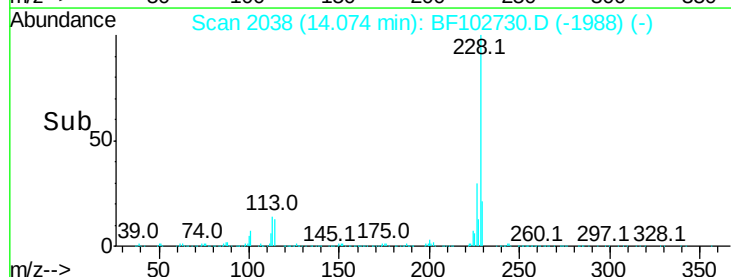
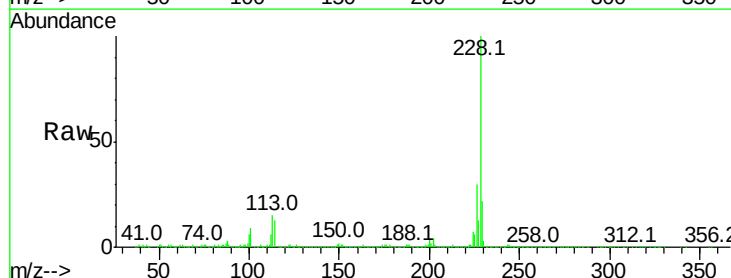
Manual Integrations
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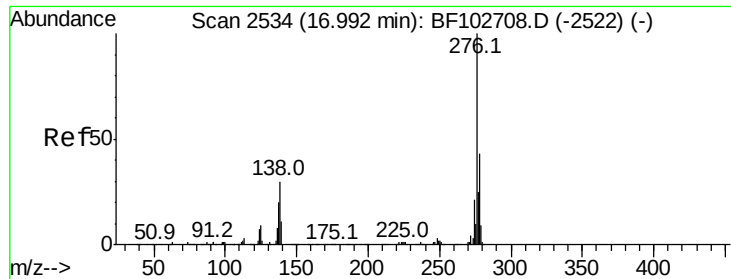
Sohil
2/6/2018 2:25:23 PM



#82
Chrysene
Concen: 38.322 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	22.4	16.2	24.4





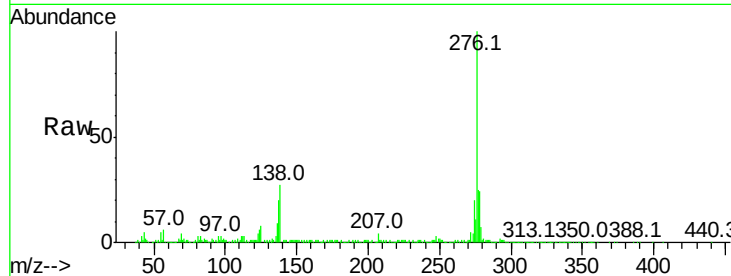
#85
Indeno(1,2,3-cd)pyrene
Concen: 25.659 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.9	25.0	37.6
277	24.7	20.1	30.1

Manual Integrations
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2/6/2018 2:25:23 PM

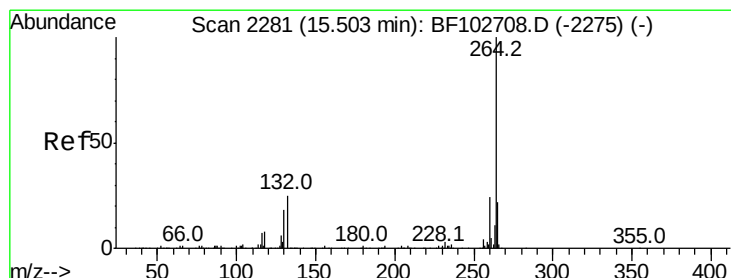
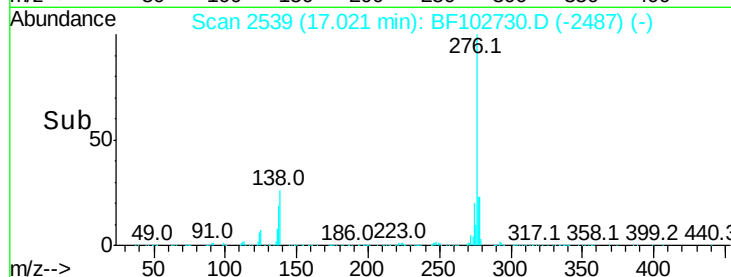
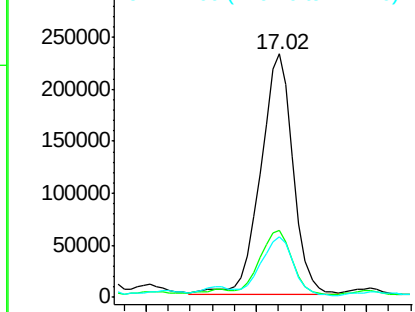


Abundance

Ion 276.00 (275.70 to 276.70): E

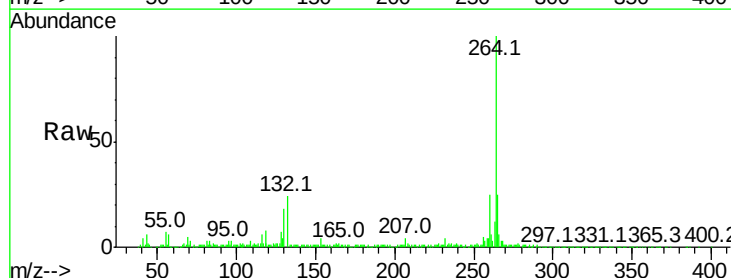
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. -0.00 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	25.4	17.5	26.3

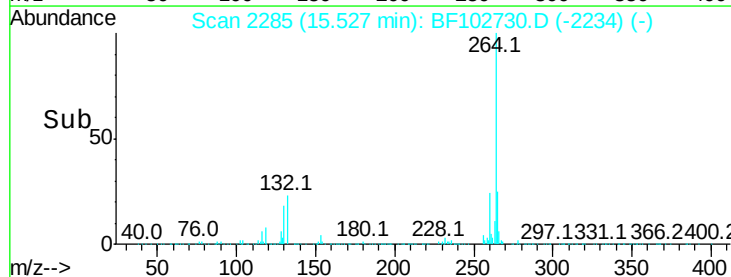
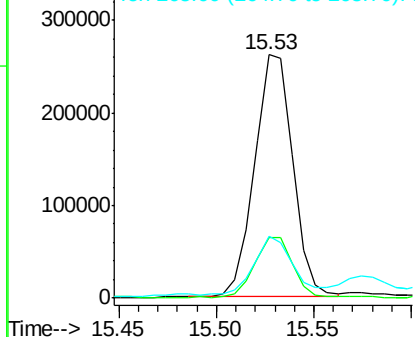


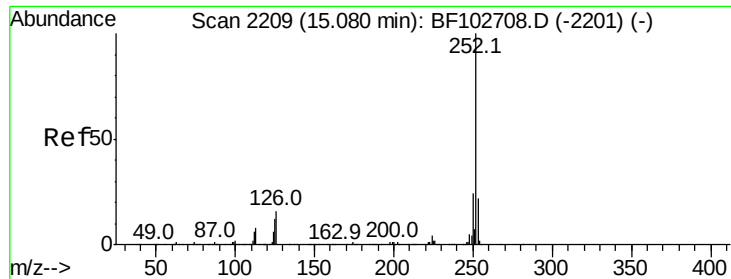
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





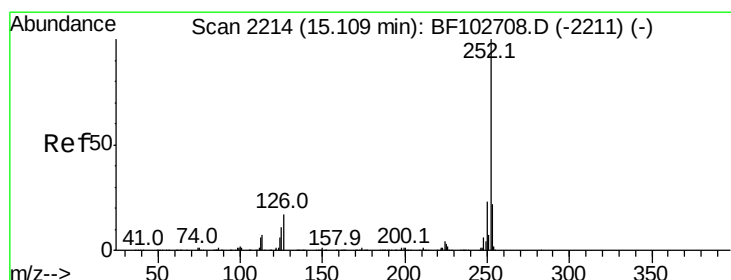
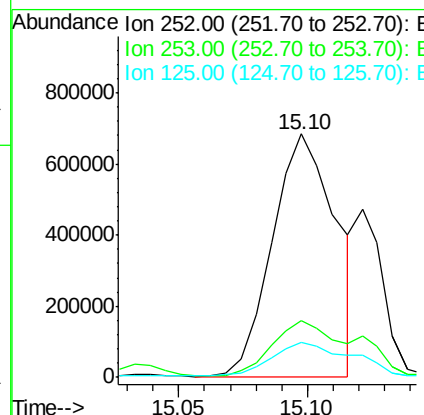
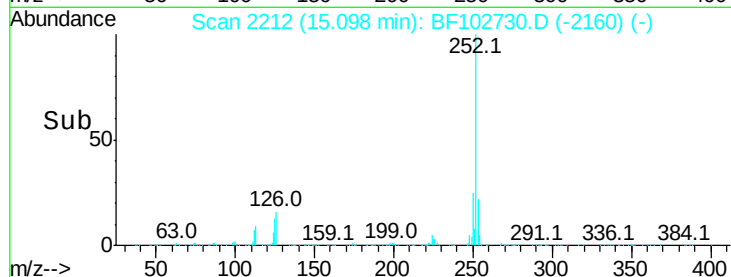
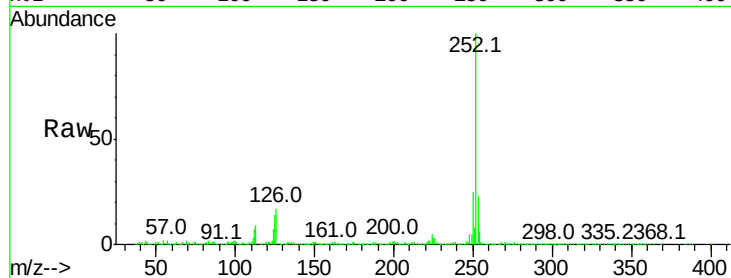
#87
Benzo(b)fluoranthene
Concen: 51.393 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	14.1	9.0	13.6

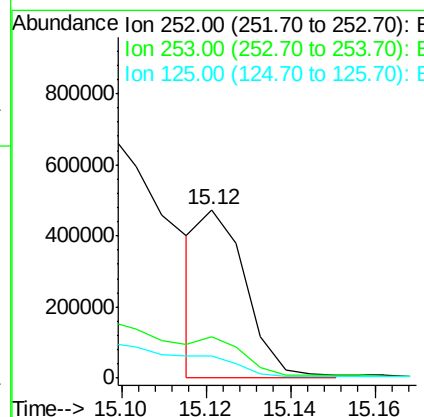
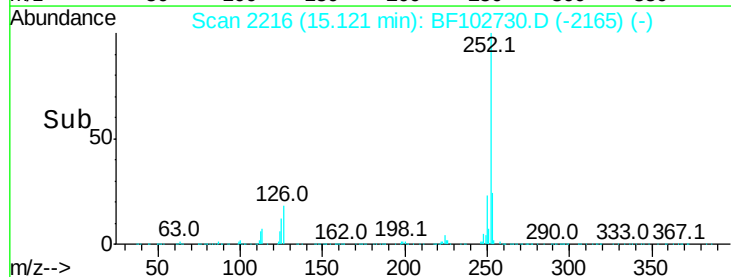
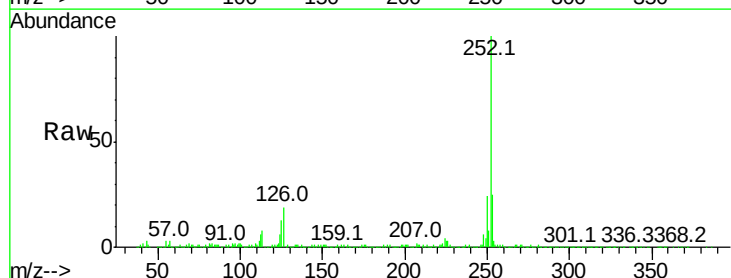
Manual Integrations
APPROVED

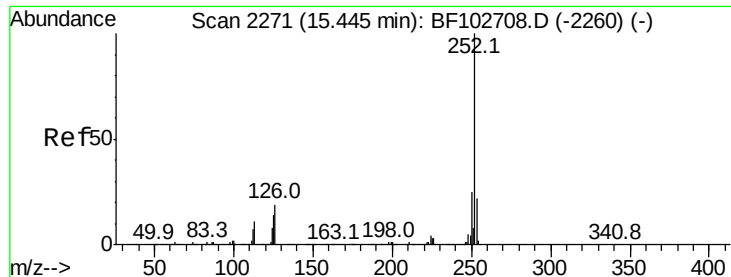
Sohil
2/6/2018 2:25:23 PM



#88
Benzo(k)fluoranthene
Concen: 16.224 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	13.1	10.2	15.2





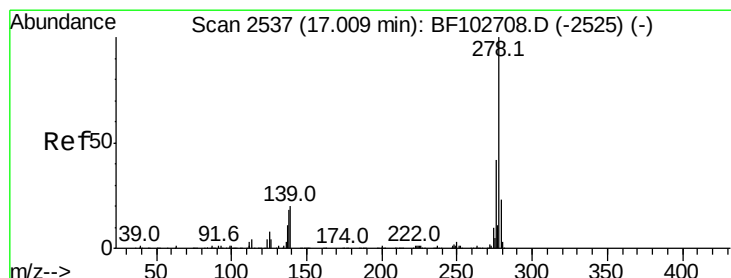
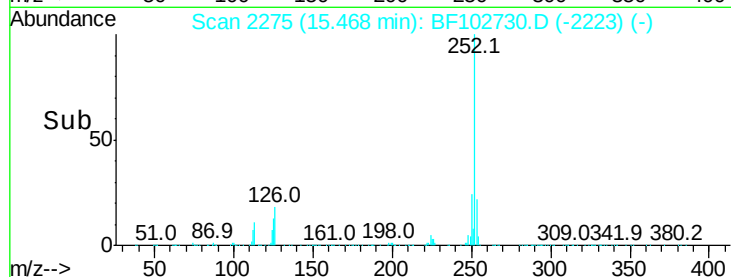
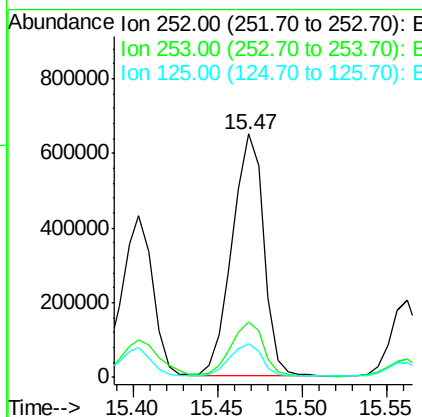
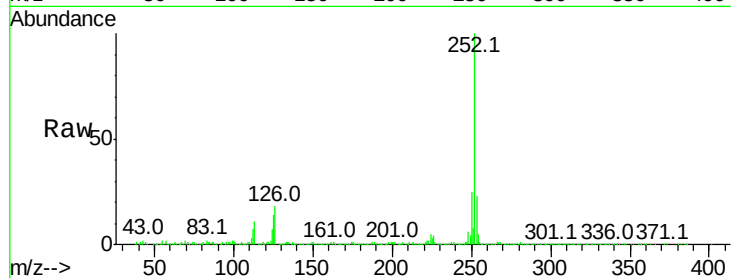
#89
Benzo(a)pyrene
Concen: 41.308 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Instrument :
BNA_F
ClientSampleId :
HD-02-013118

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	13.9	9.8	14.6

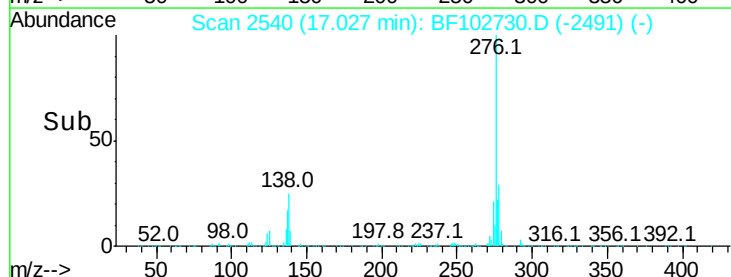
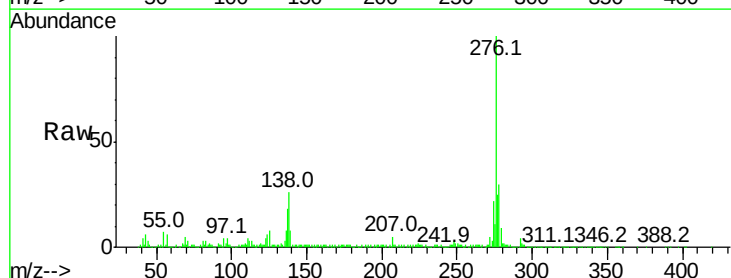
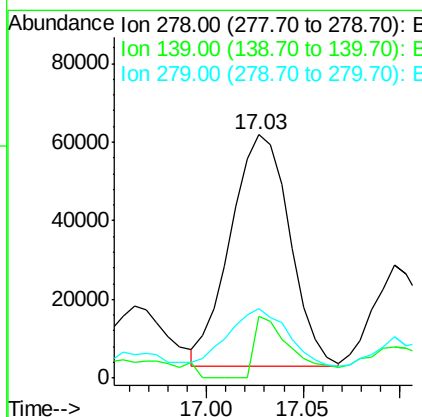
Manual Integrations
APPROVED

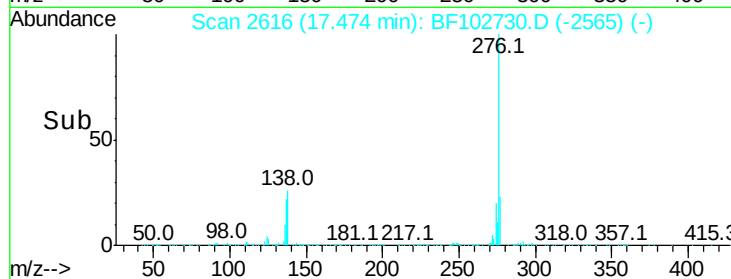
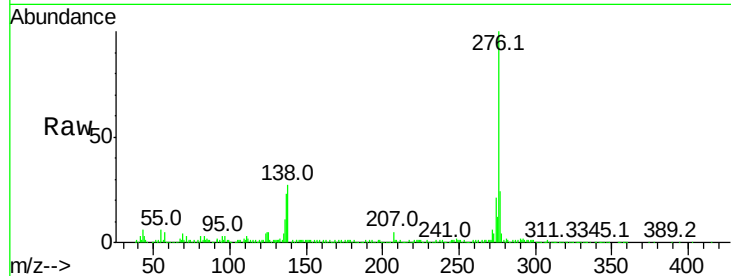
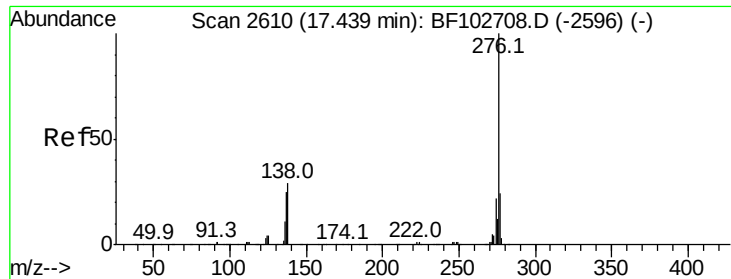
Sohil
2/6/2018 2:25:23 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.497 ng m
RT: 17.03 min Scan# 2540
Delta R.T. -0.01 min
Lab File: BF102730.D
Acq: 5 Feb 2018 11:31

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.6	15.9	23.9#
279	28.8	19.0	28.4#





#91

Benzo(a,h,i)perylene

Concen: 27.645 ng

RT: 17.47 min Scan# 2616

Delta R.T. -0.00 min

Lab File: BF102730.D

Acq: 5 Feb 2018 11:31

Instrument :

BNA_F

ClientSampleId :

HD-02-013118

Tot Ion:	276	Resp:	452941
Ion Ratio	Lower	Upper	
276	100		
277	23.8	17.9	26.9
138	27.2	21.8	32.8

Manual Integrations
APPROVED

Sohil
2/6/2018 2:25:23 PM

