

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\
 Data File : BF096623.D
 Acq On : 11 Jul 2017 1:29
 Operator : SJ/JU
 Sample : I4108-07
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BU-01-070617-C

Manual Integrations
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 7/11/2017 1:35:35 PM

Quant Time: Jul 11 08:31:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	121465	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	467771	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	171493	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	247722	20.00	ng	-0.01
75) Chrysene-d12	13.84	240	205685	20.00	ng	0.00
86) Perylene-d12	15.23	264	213926	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	696285	84.61	ng	-0.01
7) Phenol-d6	6.33	99	869207	85.91	ng	-0.02
23) Nitrobenzene-d5	7.25	82	503126	64.63	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	119356	89.10	ng	-0.02
44) 2-Fluorobiphenyl	9.05	172	780298	77.80	ng	-0.02
78) Terphenyl-d14	12.78	244	498250	51.76	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.99	128	306800	13.89	ng	99
32) Benzoic acid	7.69	122	17001m	2.75	ng	
37) 2-Methylnaphthalene	8.68	142	93525	6.65	ng	96
48) Acenaphthylene	9.57	152	63175	3.64	ng	98
49) Dimethylphthalate	9.44	163	165901	12.96	ng	98
51) Acenaphthene	9.75	154	242545	22.68	ng	98
54) Dibenzofuran	9.92	168	196820	13.94	ng	98
57) Fluorene	10.26	166	248962	24.96	ng	99
70) Phenanthrene	11.23	178	1591731	118.86	ng	100
71) Anthracene	11.27	178	503802	36.92	ng	98
72) Carbazole	11.42	167	307500	22.41	ng	99
74) Fluoranthene	12.42	202	1933495	147.27	ng	99
77) Pvrene	12.65	202	1684908	102.06	ng	99
80) Benzo(a)anthracene	13.83	228	1034912	86.89	ng	99
82) Chrysene	13.87	228	1012695m	81.19	ng	
85) Indeno(1,2,3-cd)pyrene	16.59	276	425683	43.24	ng	98
87) Benzo(b)fluoranthene	14.85	252	1105219m	82.45	ng	
88) Benzo(k)fluoranthene	14.87	252	460432m	38.40	ng	
89) Benzo(a)pvrene	15.19	252	797543	66.64	ng	# 95
90) Dibenzo(a,h)anthracene	16.59	278	119188	12.66	ng	# 92
91) Benzo(g,h,i)perylene	16.99	276	363107	37.22	ng	96

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

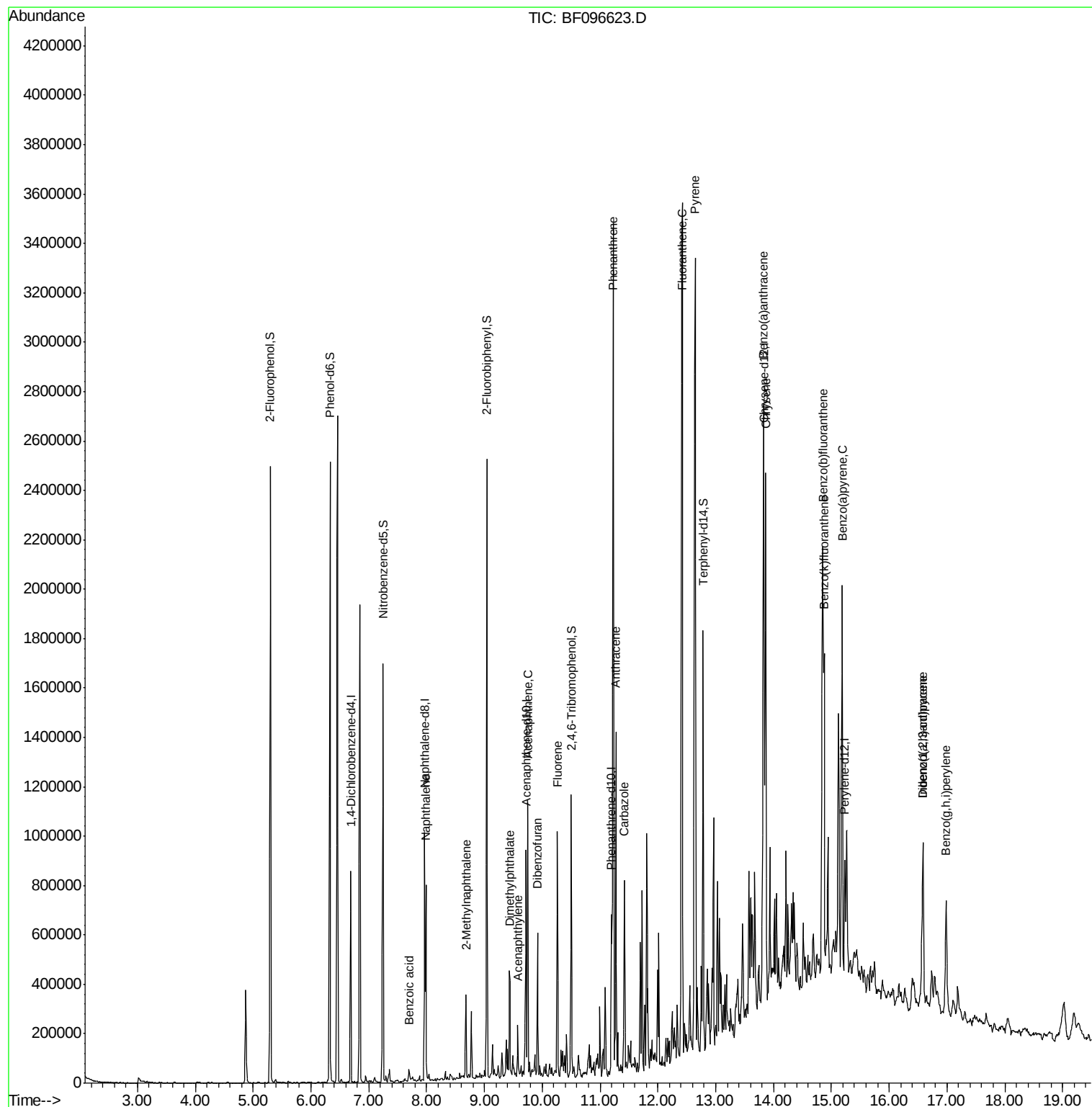
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\
Data File : BF096623.D
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Sample : I4108-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

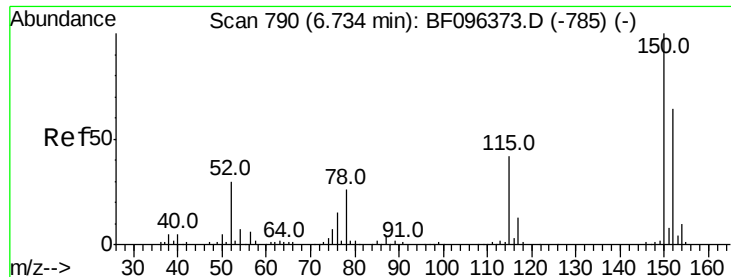
Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

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Quant Time: Jul 11 08:31:38 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

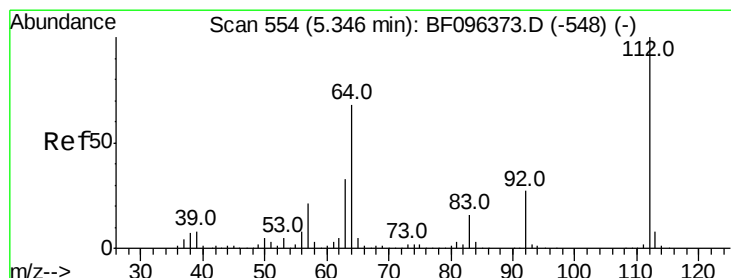
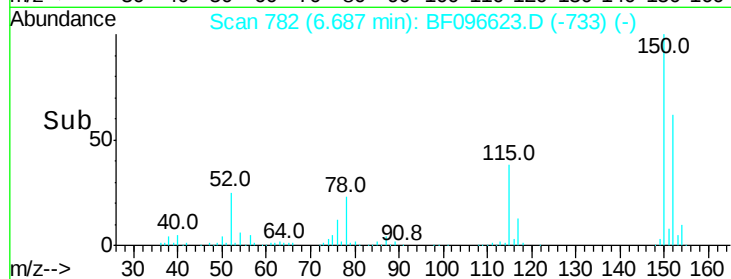
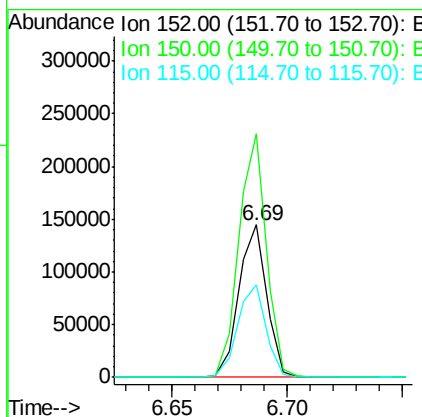
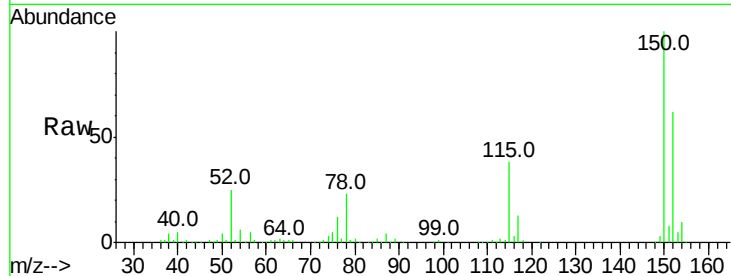
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.69 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.0	126.2	189.2
115	61.2	52.2	78.2

Manual Integrations
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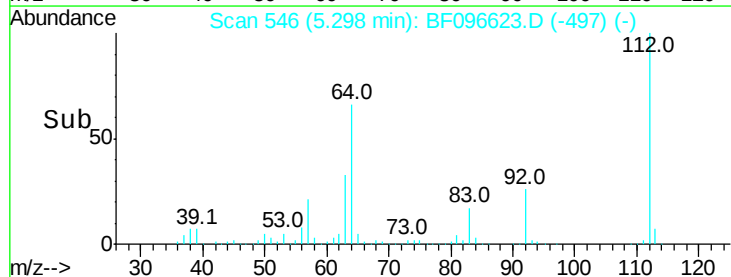
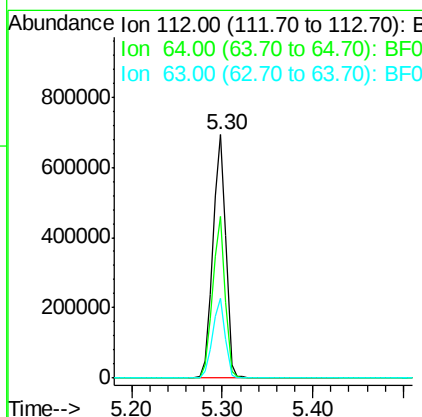
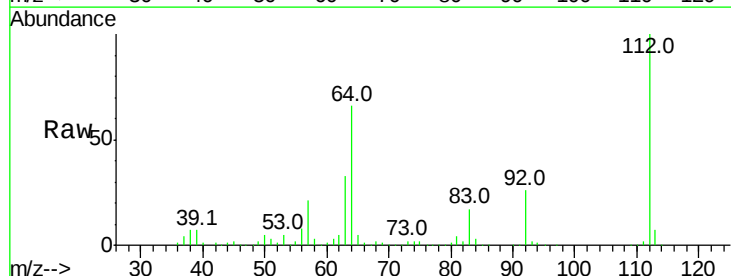
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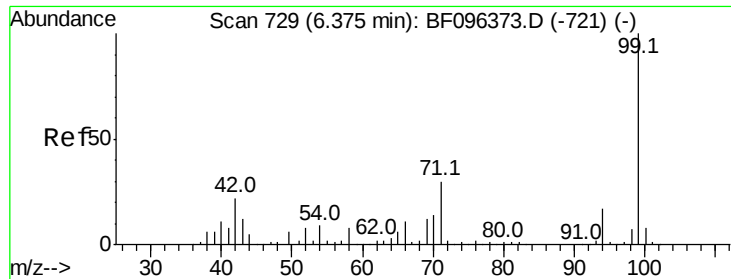


#5

2-Fluorophenol
Concen: 84.61 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.2	46.0	69.0
63	33.0	23.4	35.0





#7

Phenol-d6

Concen: 85.91 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

ClientSampleId :

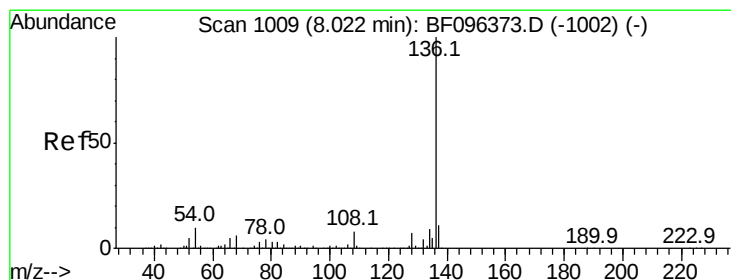
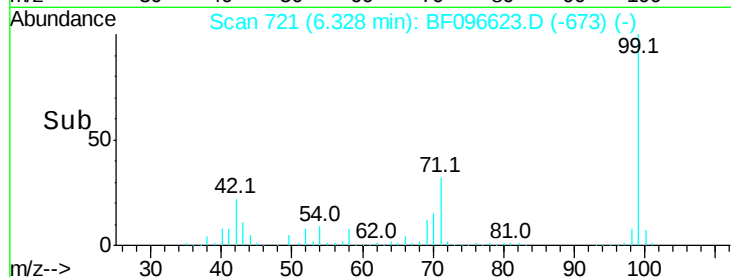
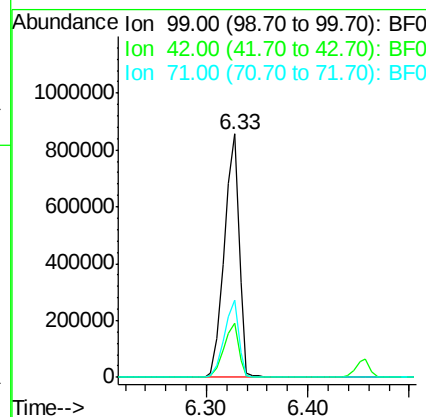
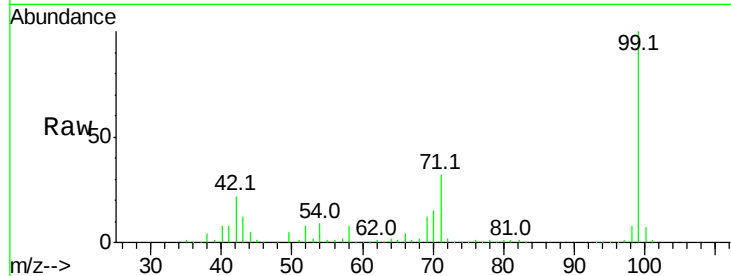
BU-01-070617-C

Tot Ion: 99 Resp: 869207

Ion	Ratio	Lower	Upper
99	100		
42	22.2	13.5	20.3#
71	31.7	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.97 min Scan# 1000

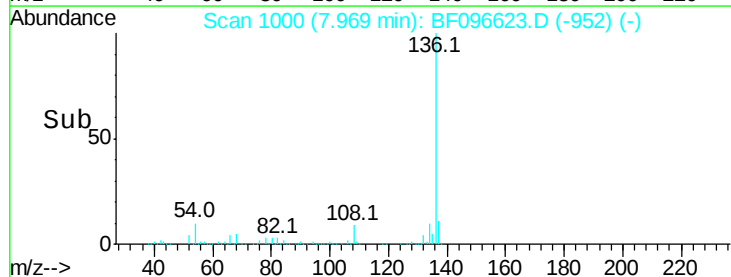
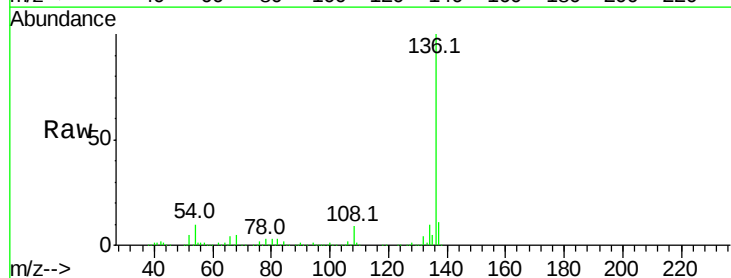
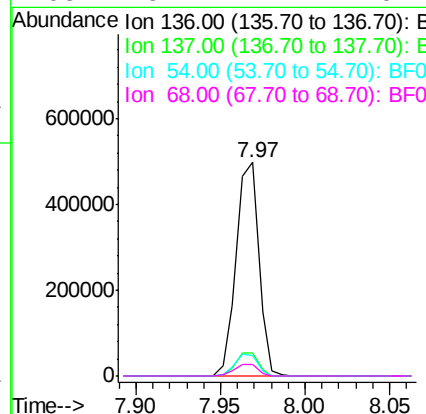
Delta R.T. -0.02 min

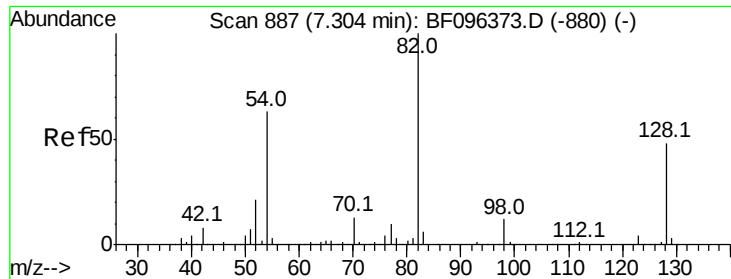
Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Tgt Ion: 136 Resp: 467771

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	9.9	4.9	7.3#
68	5.4	4.1	6.1





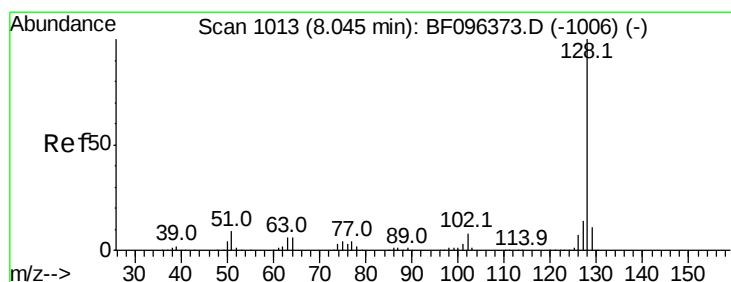
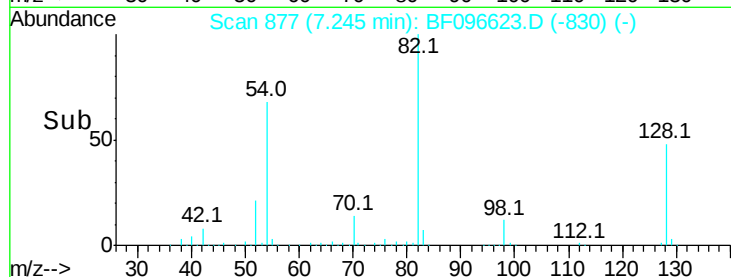
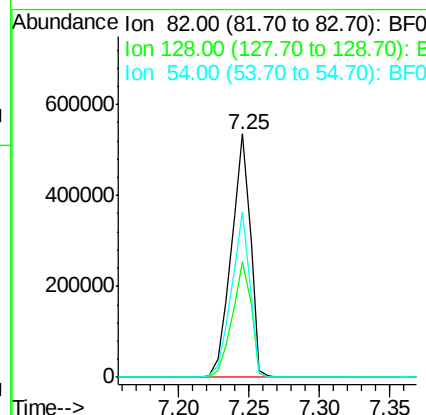
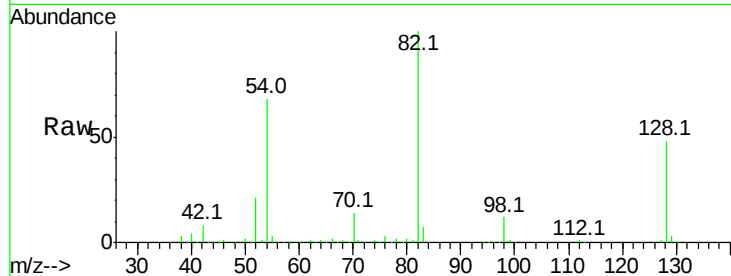
#23
Nitrobenzene-d5
Concen: 64.63 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	34.0	51.0
54	68.1	42.2	63.2

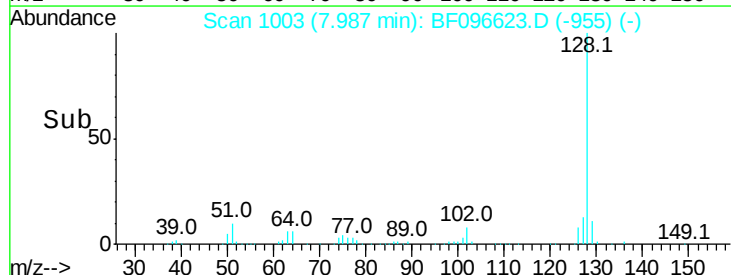
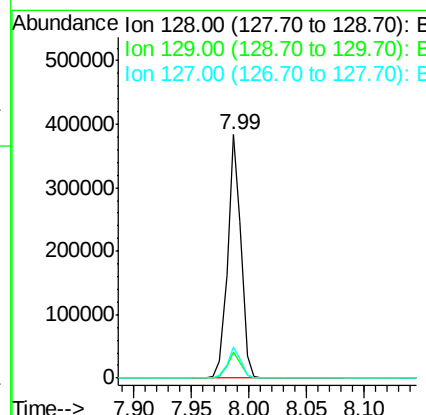
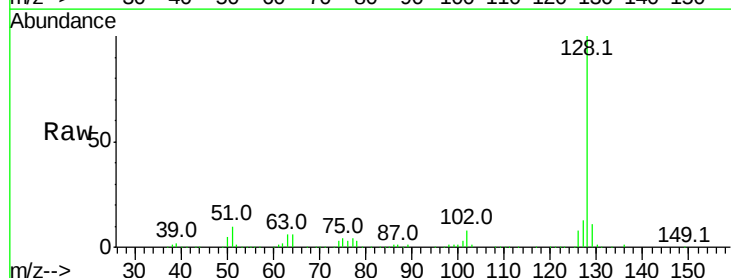
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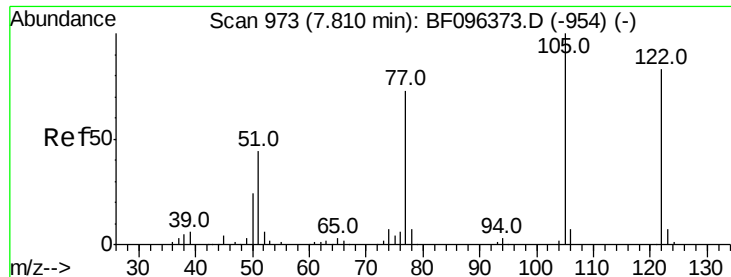
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#31
Naphthalene
Concen: 13.89 ng
RT: 7.99 min Scan# 1003
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.0	10.8	16.2





#32

Benzoic acid

Concen: 2.75 ng

RT: 7.69 min Scan# 953

Delta R.T. -0.09 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

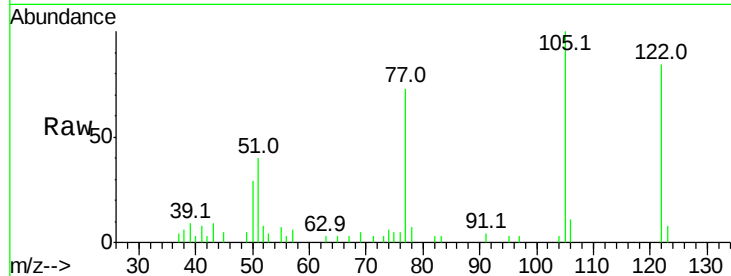
ClientSampleId :

BU-01-070617-C

Tot Ion:	122	Resp:	17001
Ion Ratio	Lower	Upper	
122	100		
105	119.6	103.3	143.3
77	87.5	73.7	113.7

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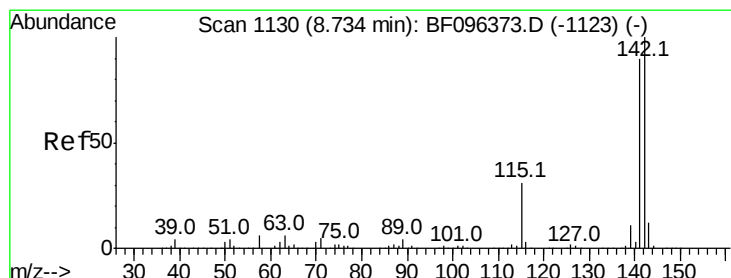
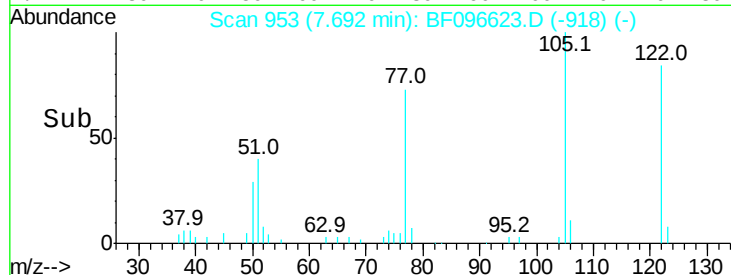
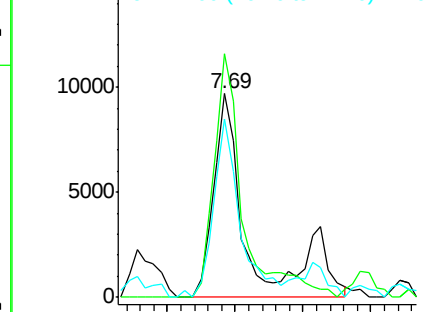


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#37

2-Methylnaphthalene

Concen: 6.65 ng

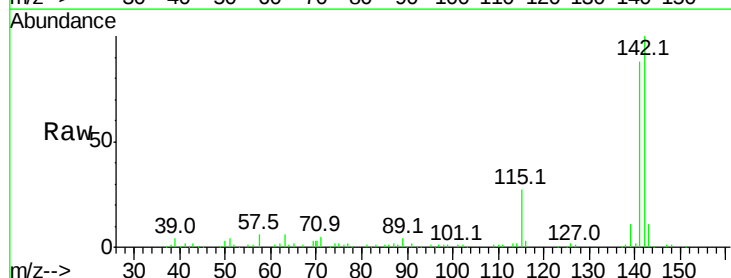
RT: 8.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Tgt Ion:	142	Resp:	93525
Ion Ratio	Lower	Upper	
142	100		
141	87.8	71.3	106.9
115	27.4	27.1	40.7

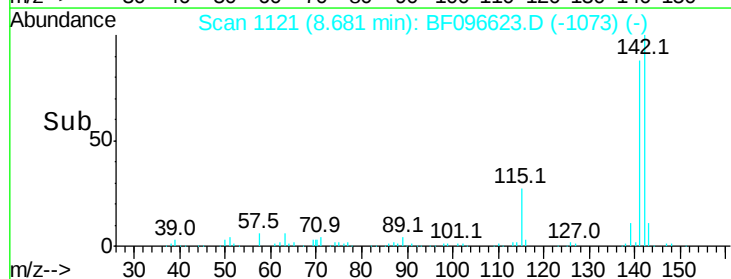
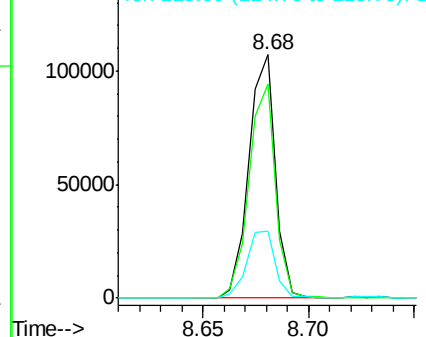


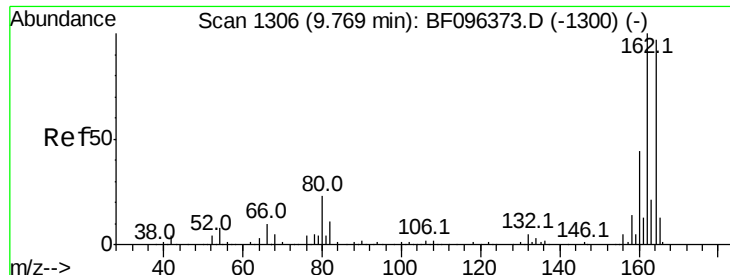
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





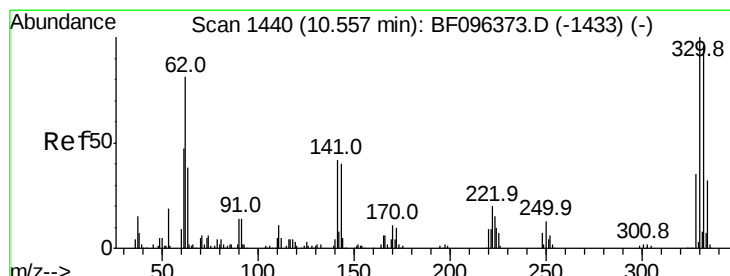
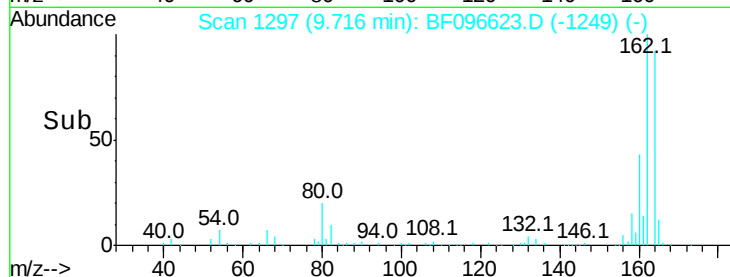
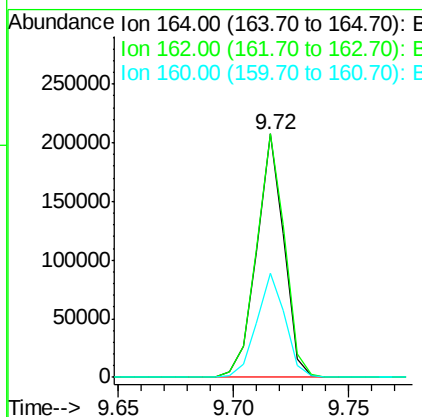
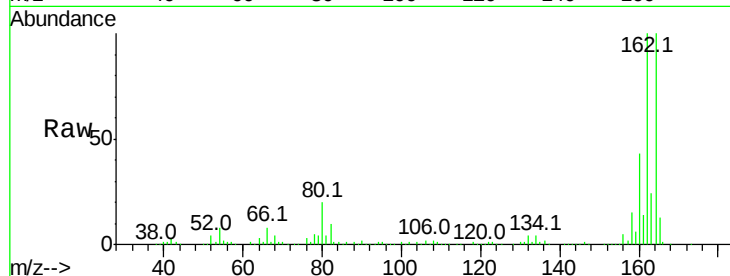
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BF096623.D
 Acq: 11 Jul 2017 1:29

Instrument :
 BNA_F
 ClientSampleId :
 BU-01-070617-C

Tot Ion	Ratio	Resp	Lower	Upper
164	100	171493		
162	99.9	82.6	123.8	
160	42.7	36.2	54.2	

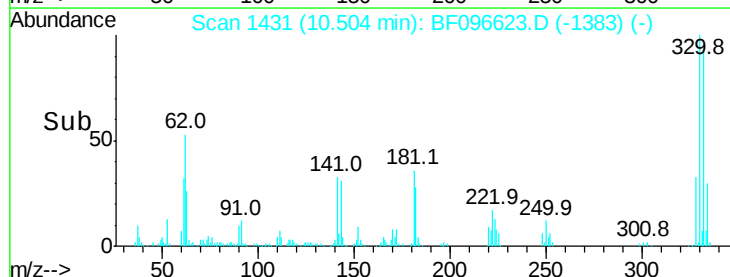
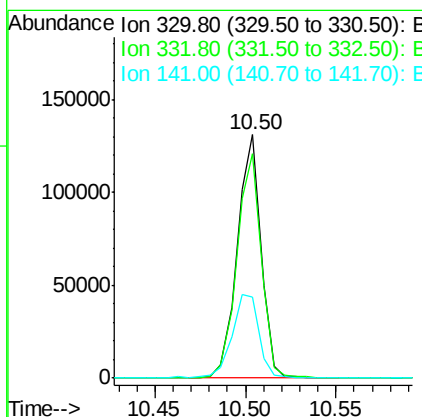
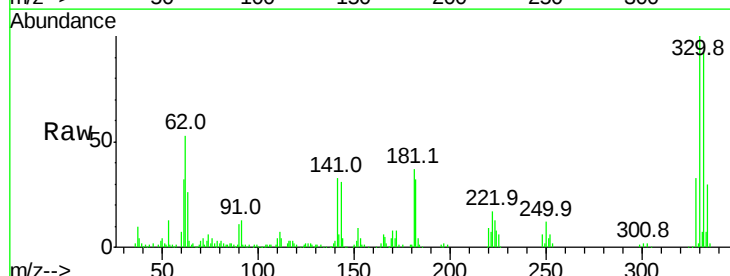
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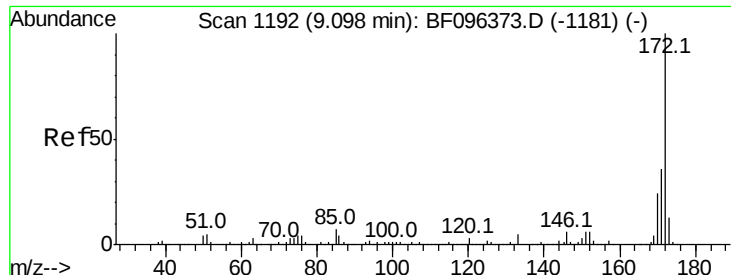
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#41
 2,4,6-Tribromophenol
 Concen: 89.10 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF096623.D
 Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	119356		
332	94.7	76.6	115.0	
141	40.1	31.4	47.2	





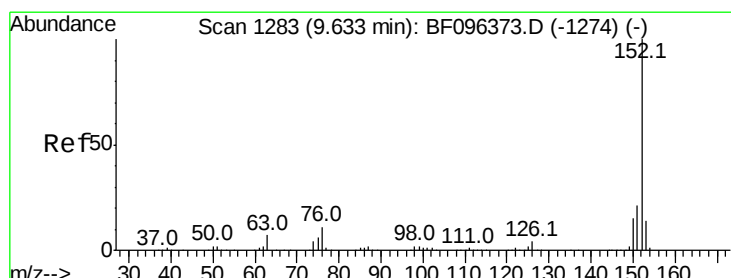
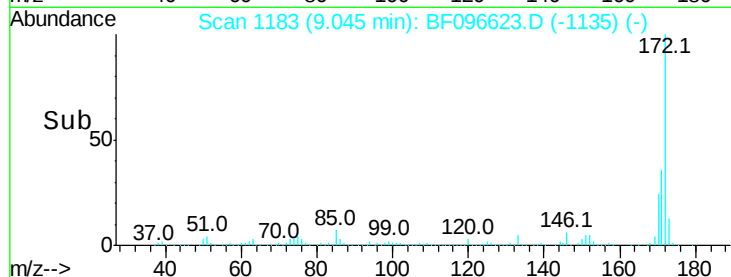
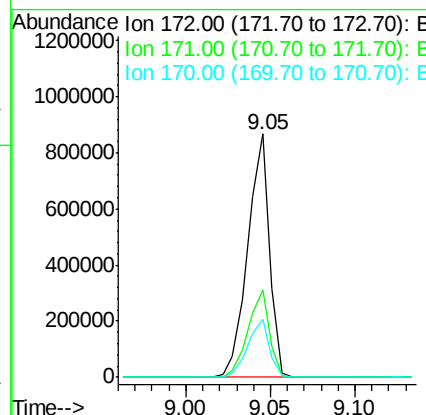
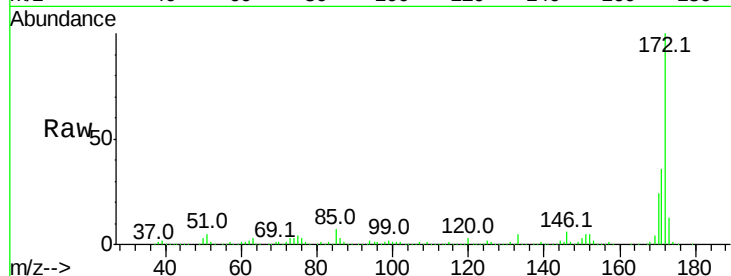
#44
2-Fluorobiphenyl
Concen: 77.80 ng
RT: 9.05 min Scan# 1183
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.8	19.8	29.8

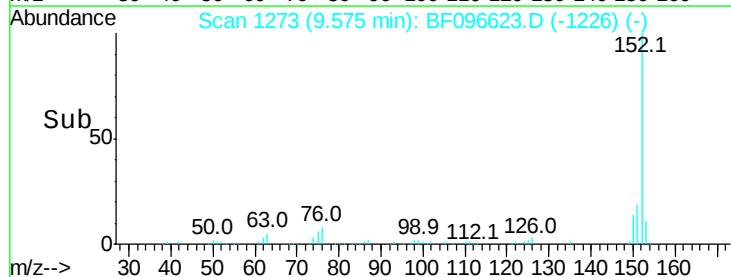
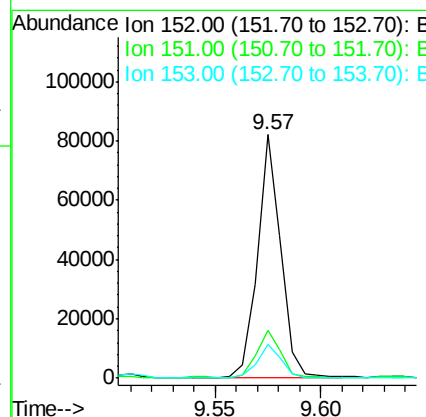
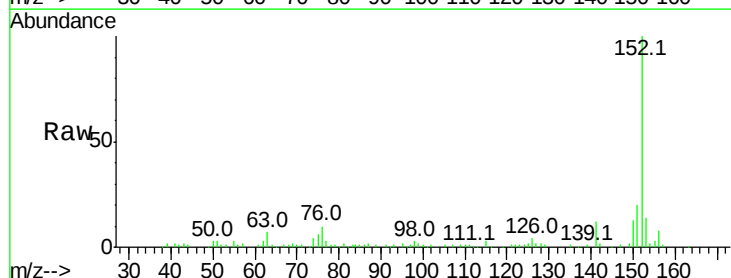
Manual Integrations
APPROVED

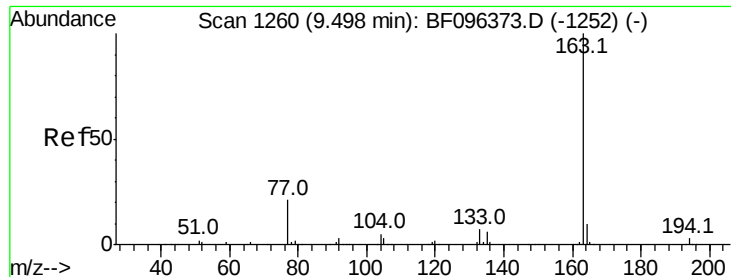
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#48
Acenaphthylene
Concen: 3.64 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	19.6	16.8	25.2
153	14.0	10.8	16.2





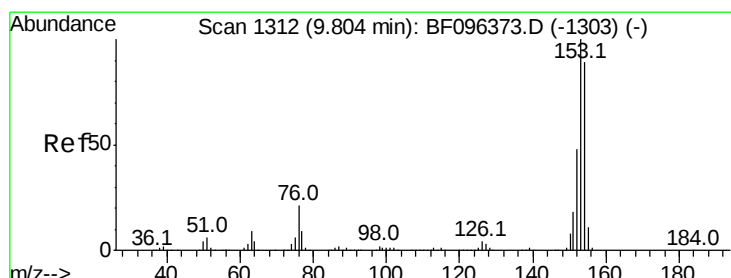
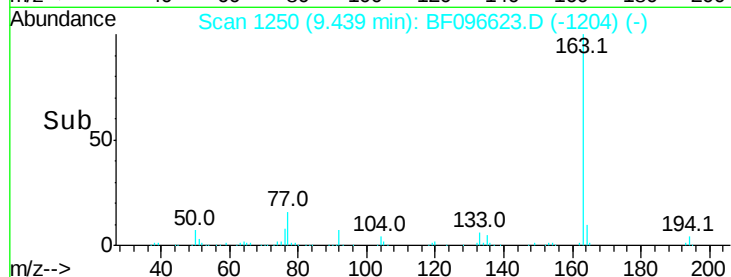
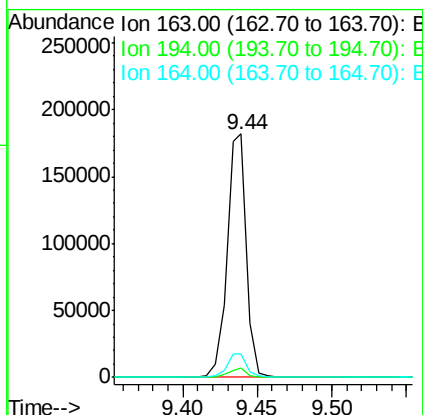
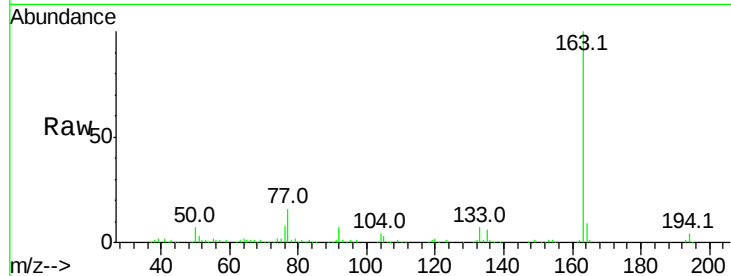
#49
Dimethylphthalate
Concen: 12.96 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.03 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Resp	Lower	Upper
163	100	165901		
194	3.6		2.6	4.0
164	9.5		8.4	12.6

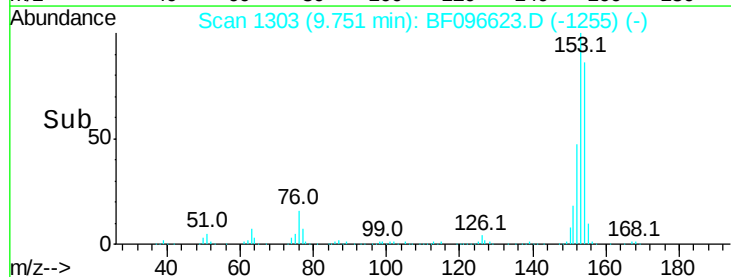
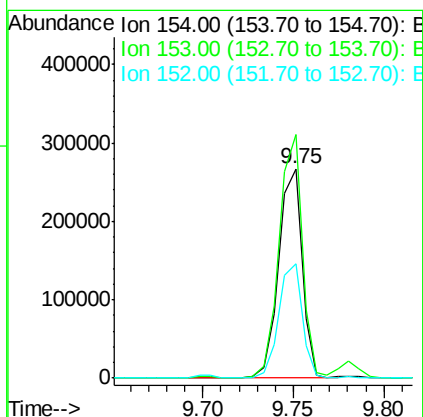
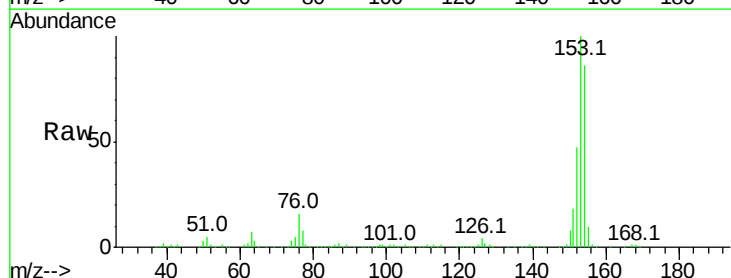
Manual Integrations
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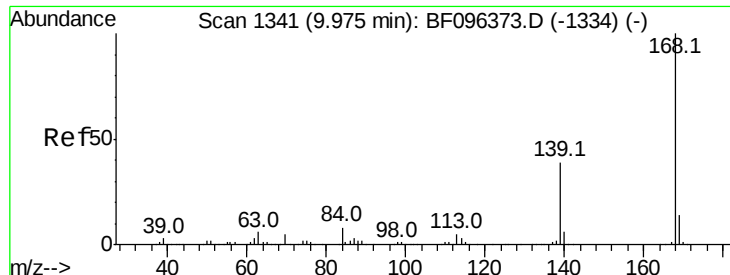
mohammad
7/11/2017 1:35:35 PM



#51
Acenaphthene
Concen: 22.68 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	242545		
153	116.1		90.5	135.7
152	54.8		43.6	65.4





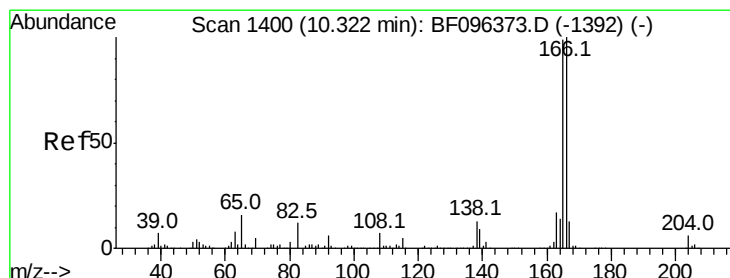
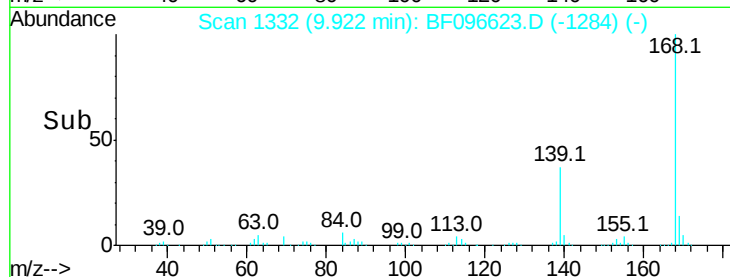
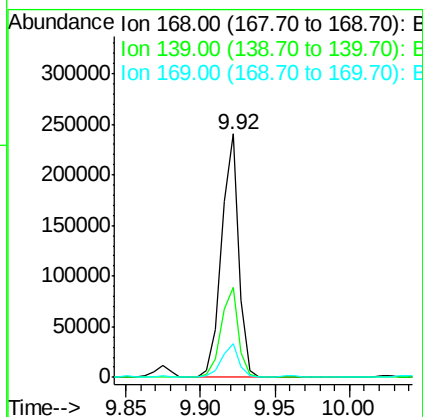
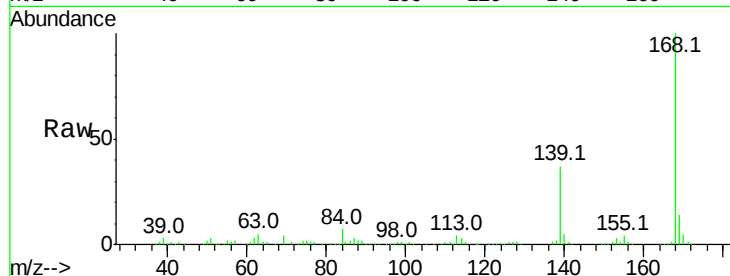
#54
Dibenzofuran
Concen: 13.94 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Resp	Lower	Upper
168	100	196820		
139	36.9	30.6	45.8	
169	13.9	10.8	16.2	

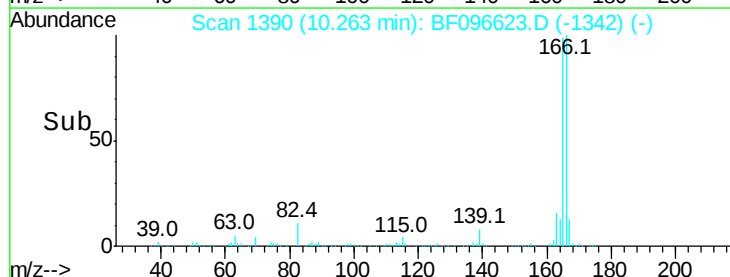
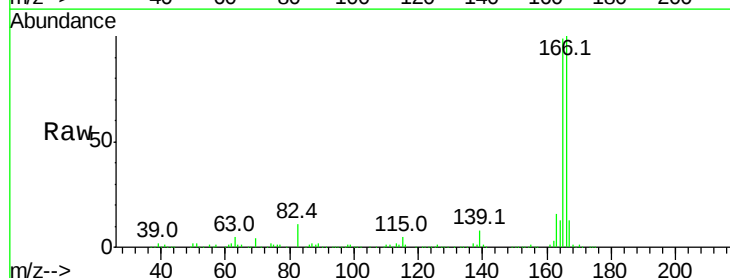
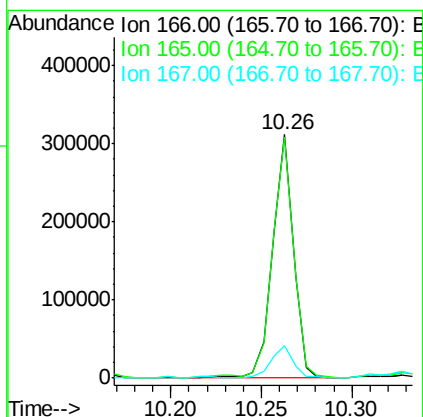
Manual Integrations
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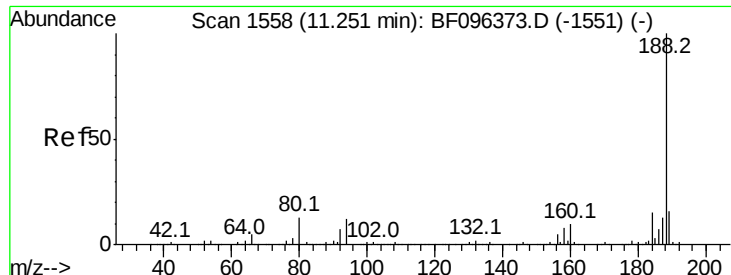
mohammad
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#57
Fluorene
Concen: 24.96 ng
RT: 10.26 min Scan# 1390
Delta R.T. -0.02 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	248962		
165	99.3	78.8	118.2	
167	13.5	10.6	16.0	





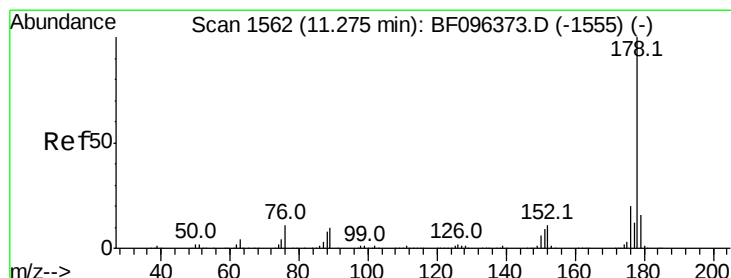
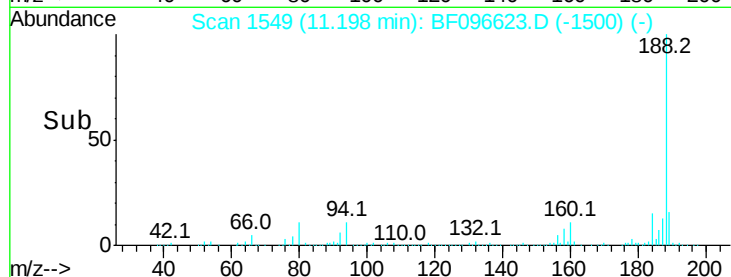
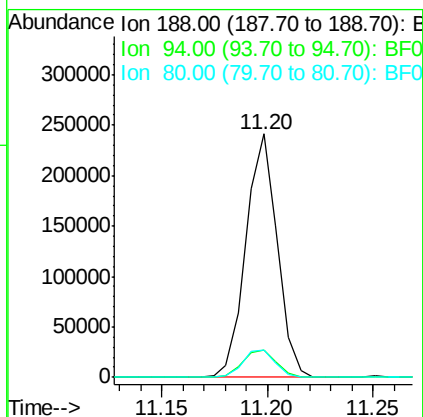
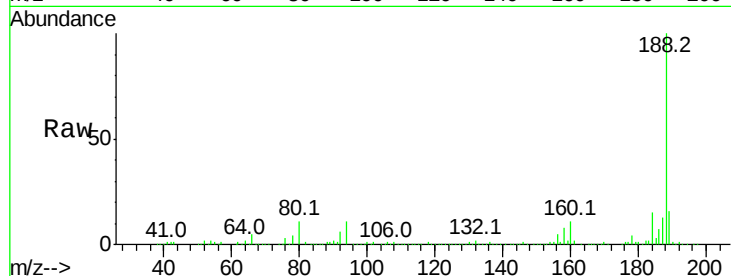
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Resp	Lower	Upper
188	100	247722		
94	11.3		9.4	14.2
80	11.1		10.2	15.2

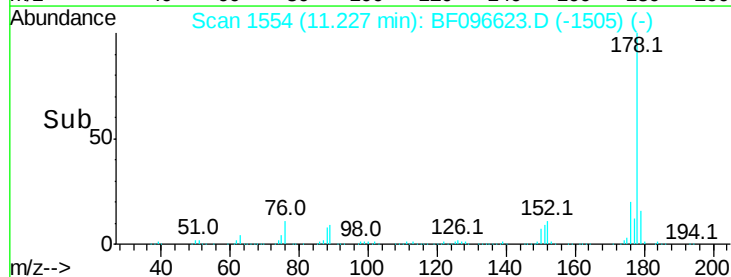
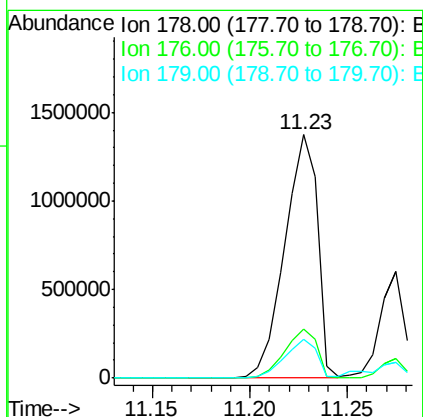
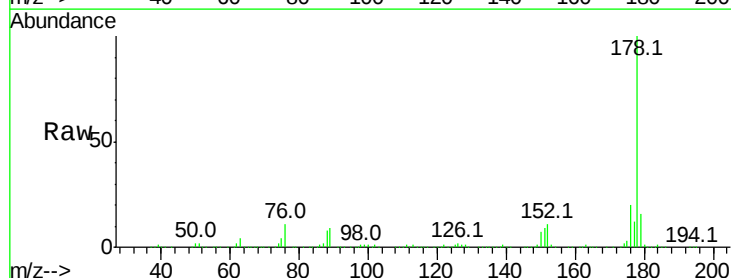
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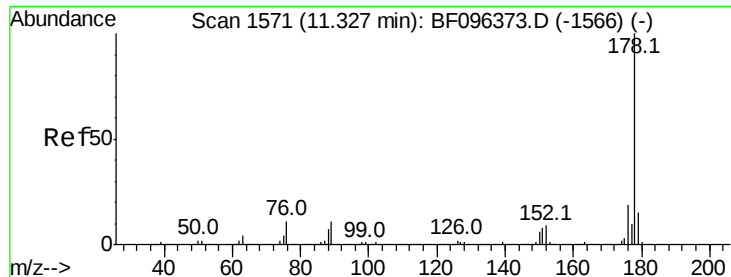
mohammad
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#70
Phenanthrene
Concen: 118.86 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1591731		
176	20.3		16.2	24.4
179	16.1		12.6	19.0





#71

Anthracene

Concen: 36.92 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

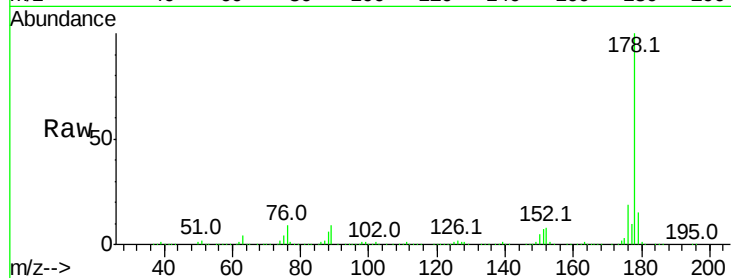
ClientSampleId :

BU-01-070617-C

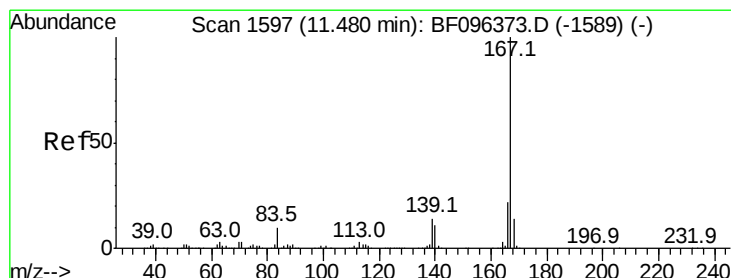
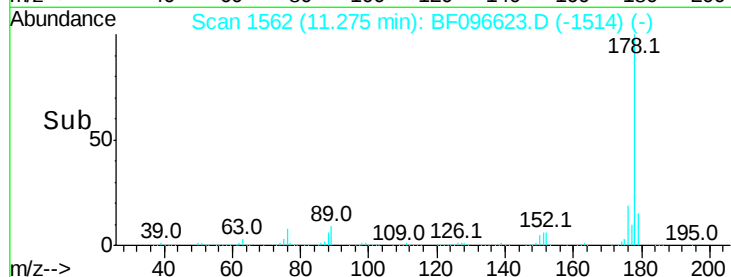
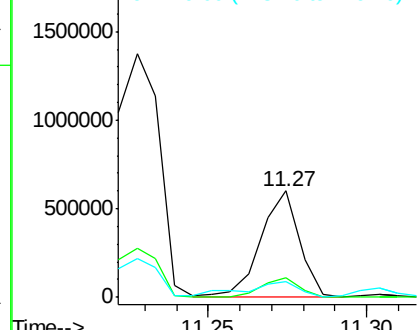
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.2	12.7	19.1

Manual Integrations
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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: 22.41 ng

RT: 11.42 min Scan# 1587

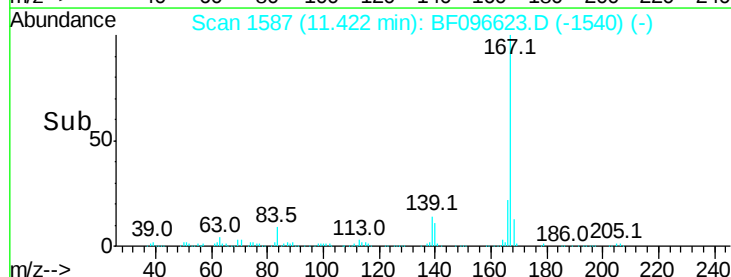
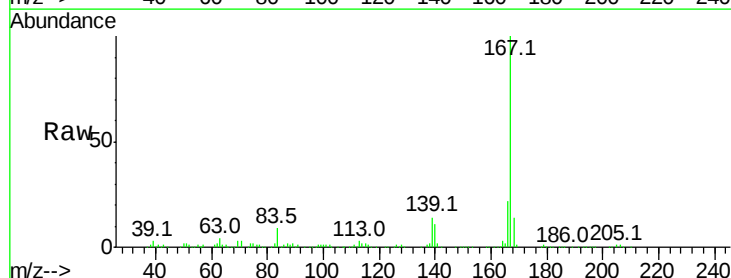
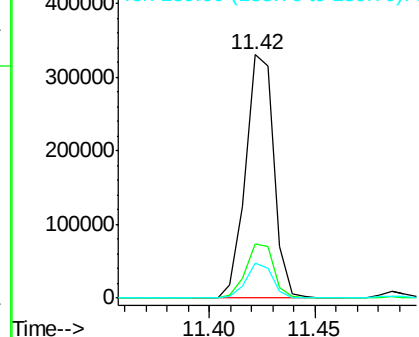
Delta R.T. -0.02 min

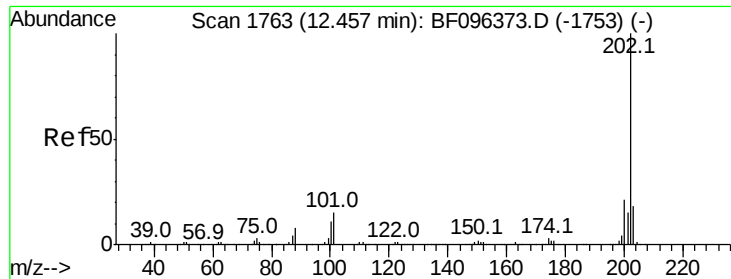
Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	18.1	27.1
139	14.2	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 147.27 ng

RT: 12.42 min Scan# 1757

Delta R.T. -0.00 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

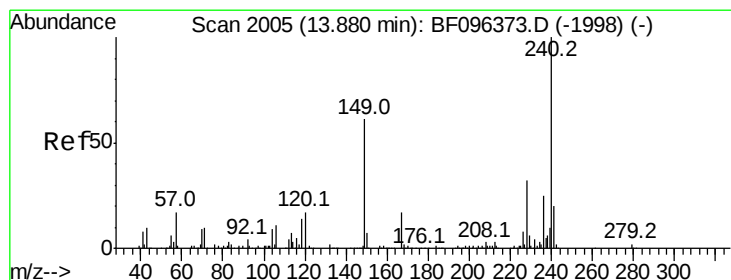
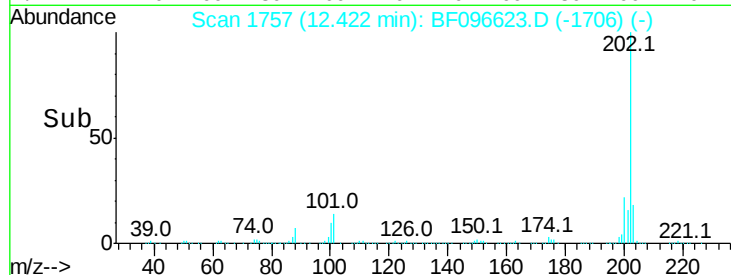
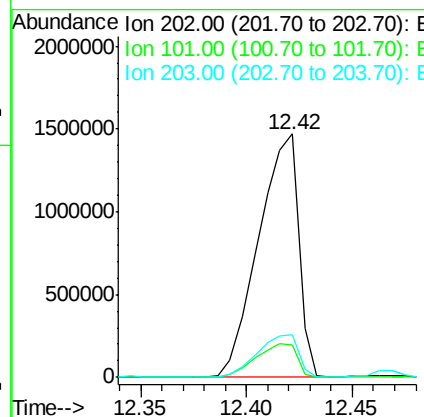
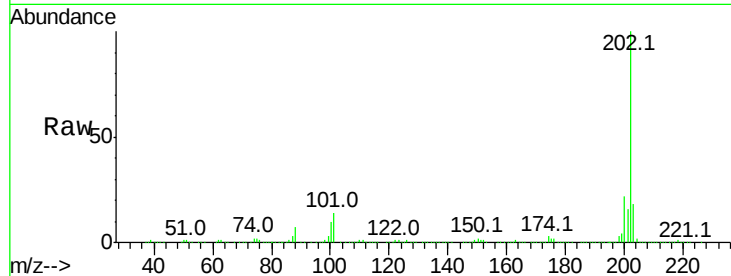
ClientSampleId :

BU-01-070617-C

Tot Ion:	202	Resp:	1933495
Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.2
203	17.8	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

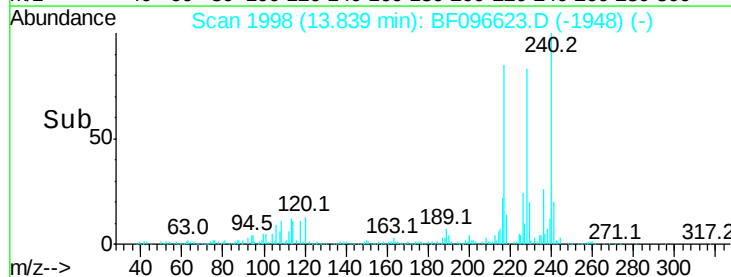
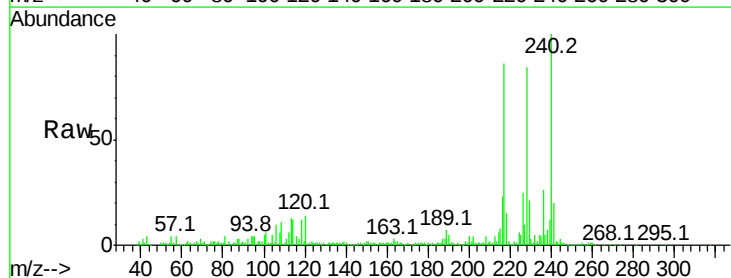
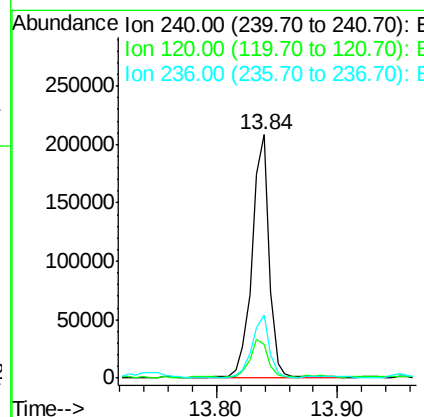
RT: 13.84 min Scan# 1998

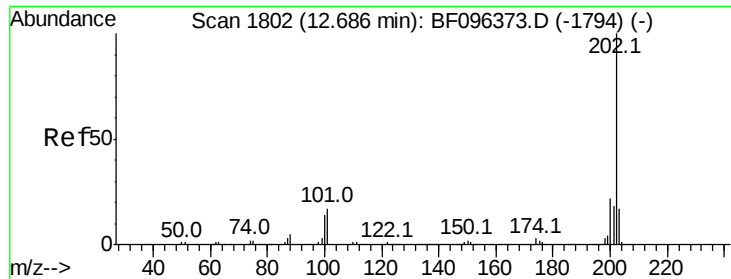
Delta R.T. -0.01 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Tgt Ion:	240	Resp:	205685
Ion	Ratio	Lower	Upper
240	100		
120	13.6	5.8	8.8#
236	25.8	20.5	30.7





#77

Pvrene

Concen: 102.06 ng

RT: 12.65 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

ClientSampleId :

BU-01-070617-C

Tot Ion:202 Resp: 1684908

Ion Ratio Lower Upper

202 100

200 22.6 17.6 26.4

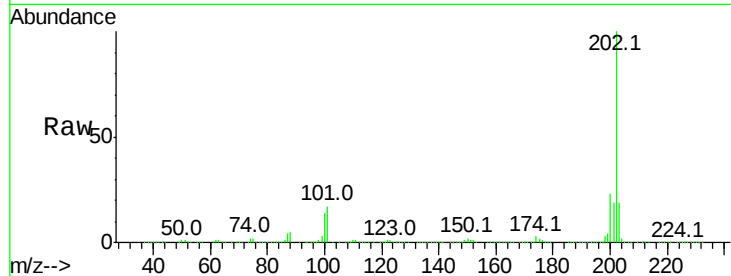
203 18.5 14.4 21.6

Manual Integrations

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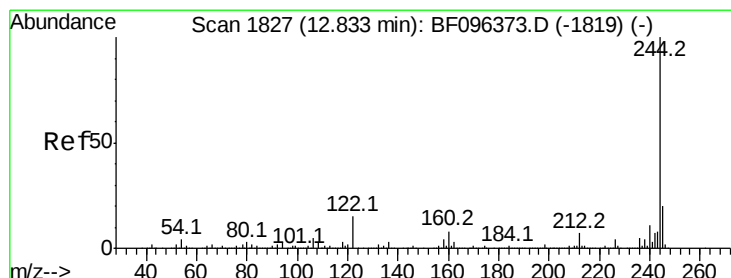
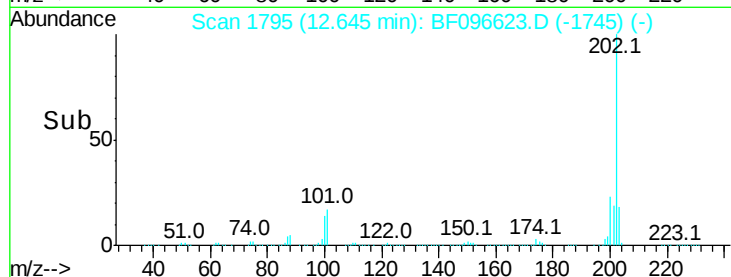
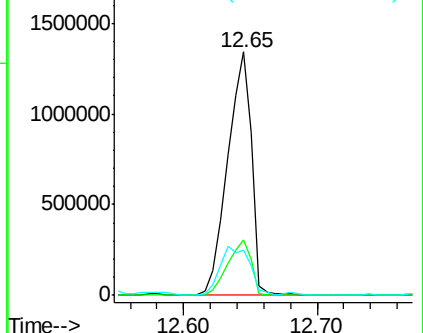
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 51.76 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.02 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

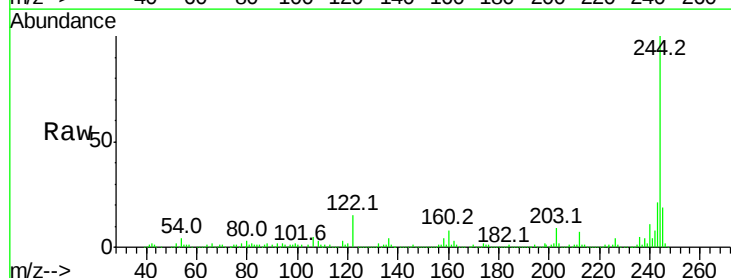
Tgt Ion:244 Resp: 498250

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

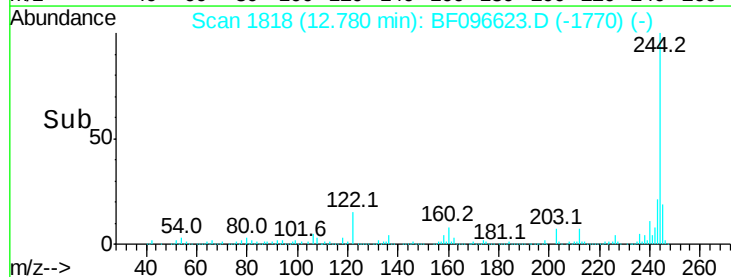
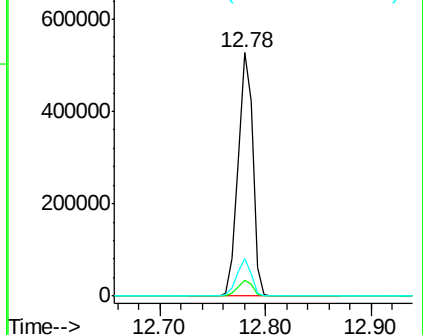
122 15.2 10.3 15.5

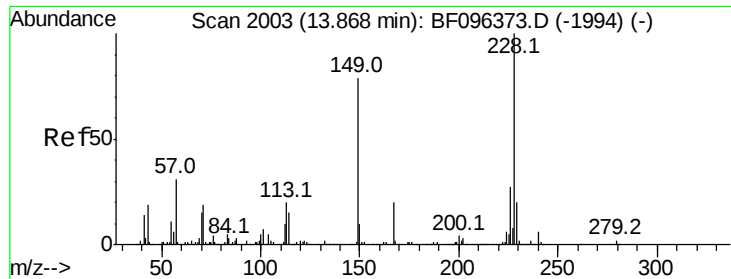


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





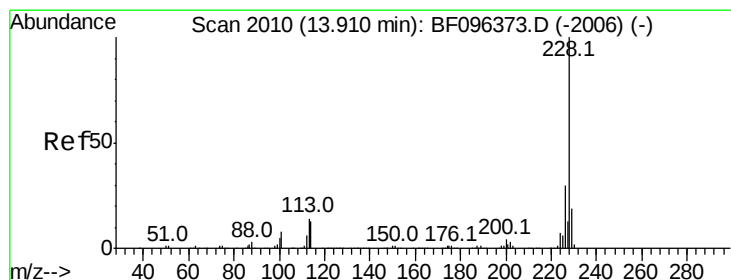
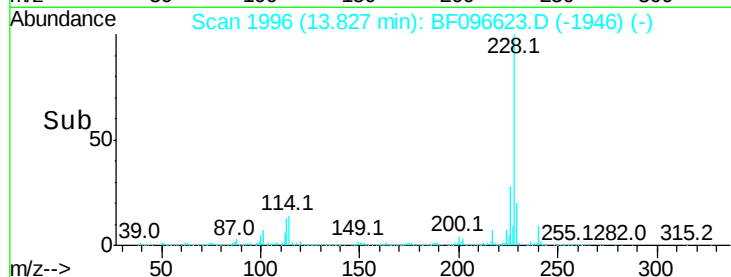
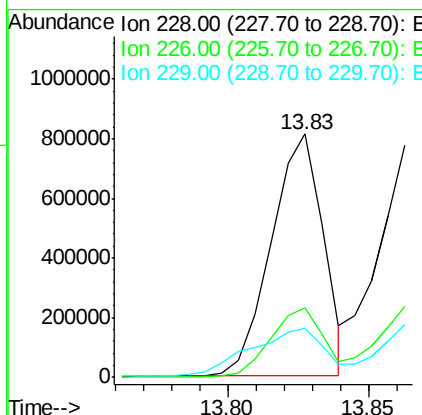
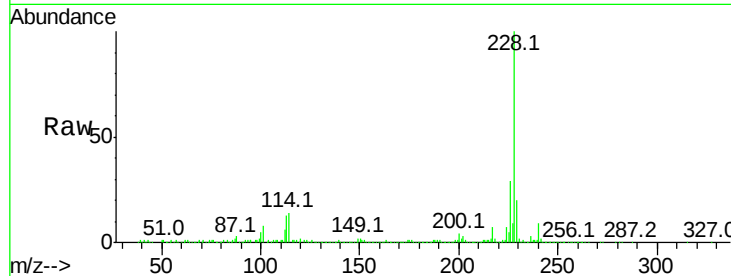
#80
Benzo(a)anthracene
Concen: 86.89 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion:228 Resp: 1034912
Ion Ratio Lower Upper
228 100
226 28.7 22.6 33.8
229 20.2 16.3 24.5

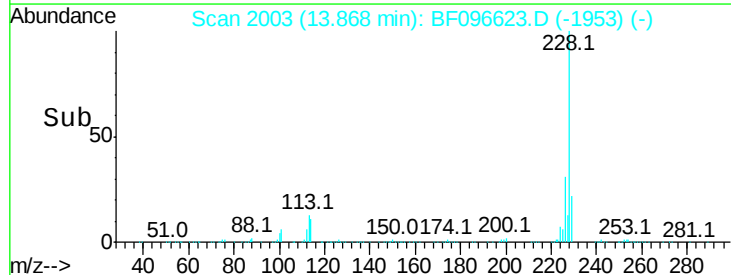
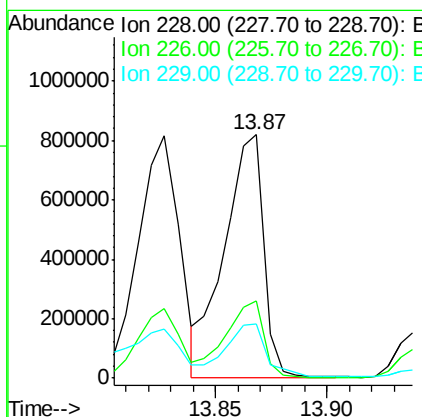
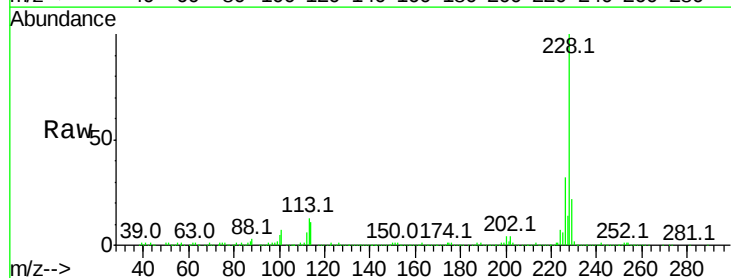
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APPROVED

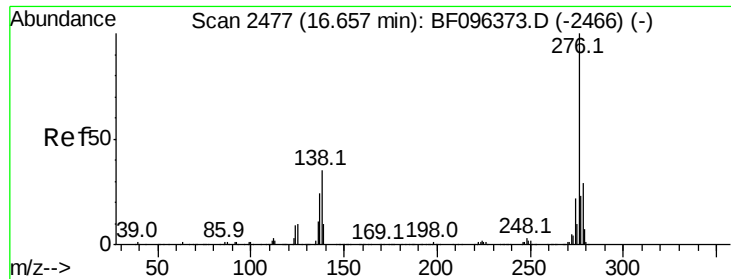
mohammad
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#82
Chrysene
Concen: 81.19 ng m
RT: 13.87 min Scan# 2003
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion:228 Resp: 1012695
Ion Ratio Lower Upper
228 100
226 31.6 24.9 37.3
229 22.1 15.8 23.6





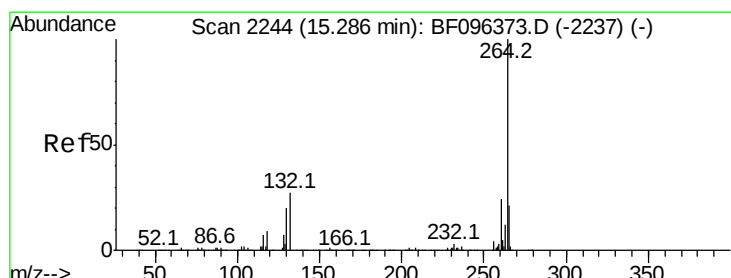
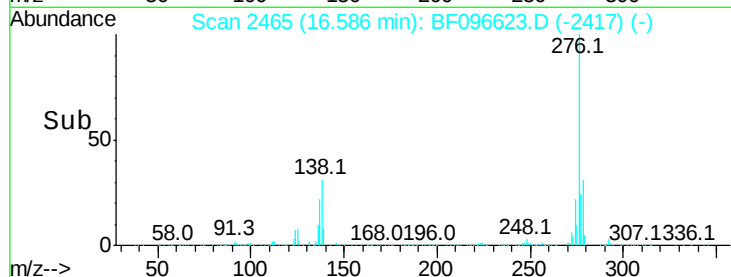
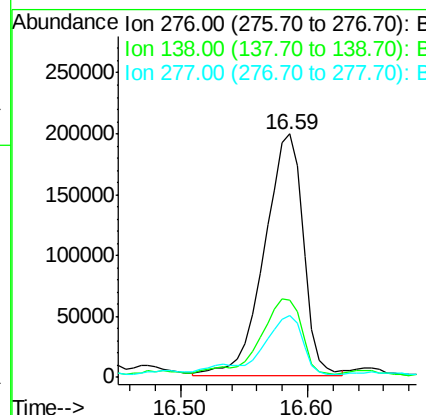
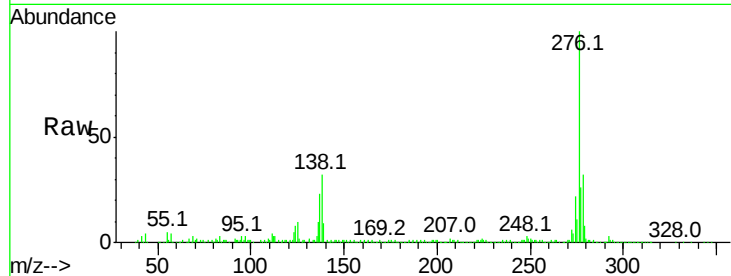
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 43.24 ng
 RT: 16.59 min Scan# 2465
 Delta R.T. -0.02 min
 Lab File: BF096623.D
 Acq: 11 Jul 2017 1:29

Instrument :
 BNA_F
 ClientSampleId :
 BU-01-070617-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	35.3	27.8	41.6
277	23.2	20.2	30.4

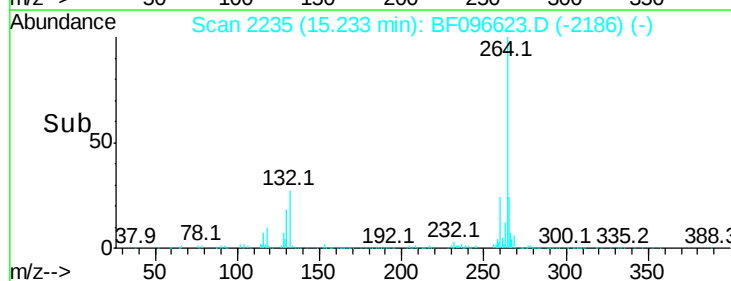
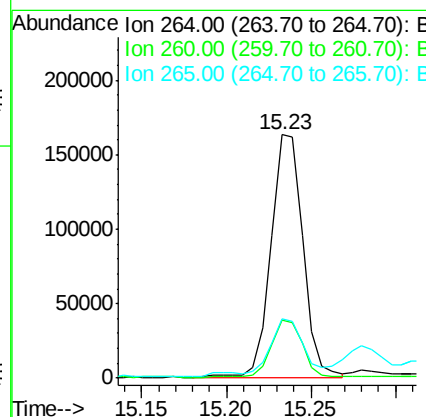
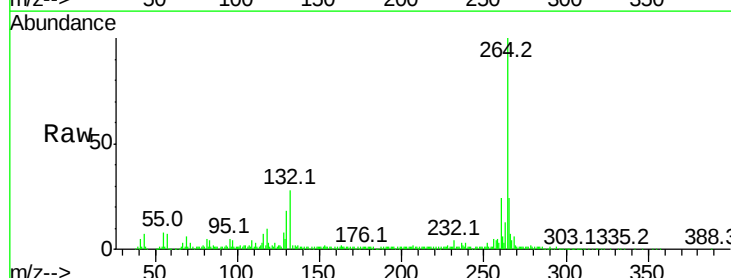
Manual Integrations
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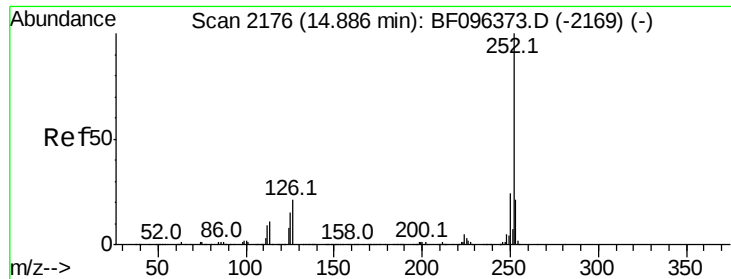
mohammad
 7/11/2017 1:35:35 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.23 min Scan# 2235
 Delta R.T. -0.01 min
 Lab File: BF096623.D
 Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	24.1	17.2	25.8





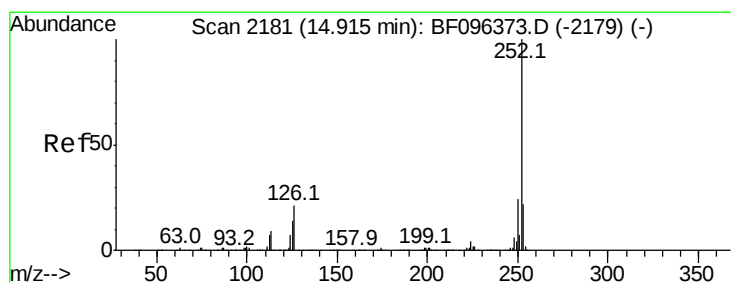
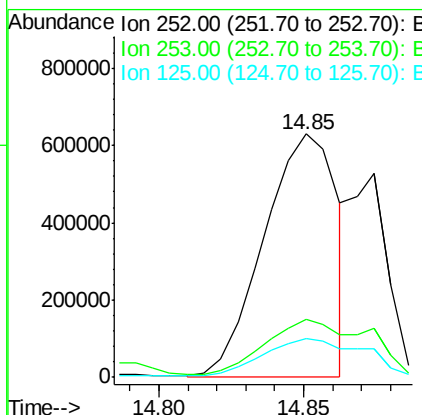
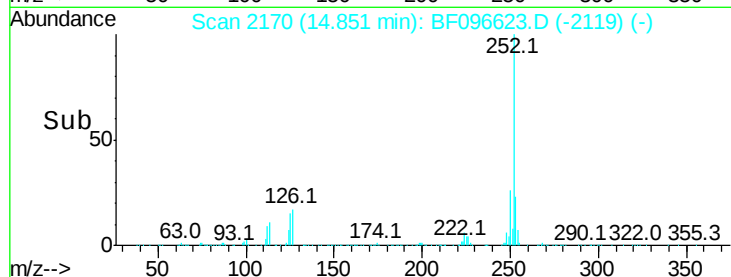
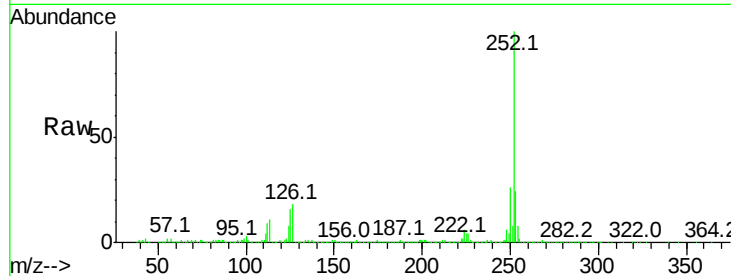
#87
Benzo(b)fluoranthene
Concen: 82.45 ng m
RT: 14.85 min Scan# 2170
Delta R.T. -0.00 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Instrument :
BNA_F
ClientSampleId :
BU-01-070617-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	15.8	9.8	14.8

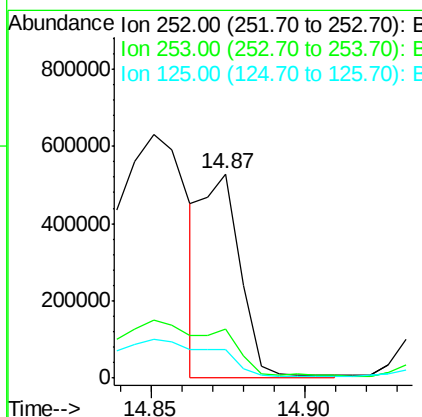
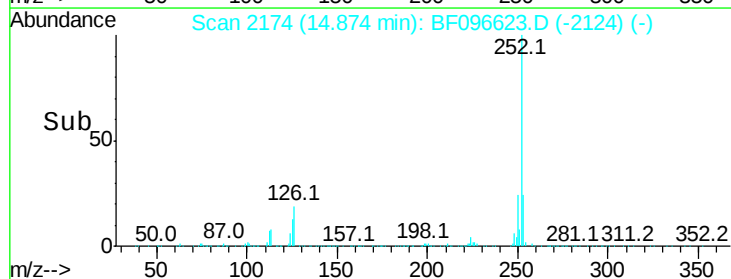
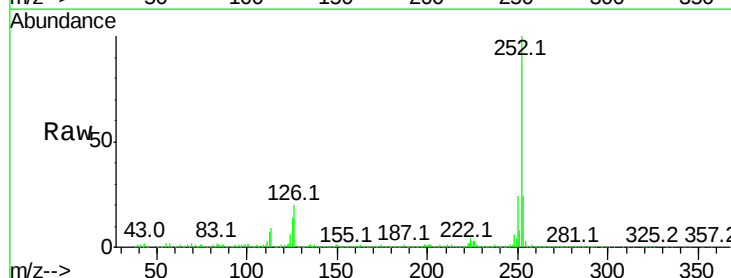
Manual Integrations
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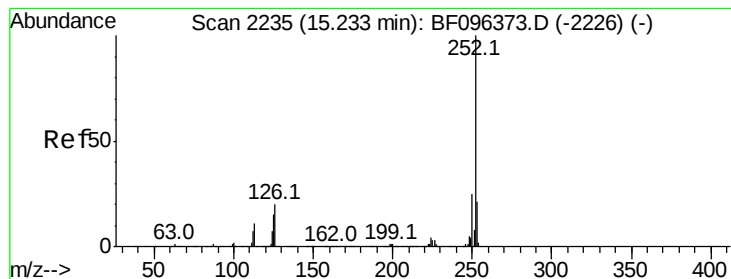
mohammad
7/11/2017 1:35:35 PM



#88
Benzo(k)fluoranthene
Concen: 38.40 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF096623.D
Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.4	27.6
125	14.0	13.1	19.7





#89

Benzo(a)pyrene

Concen: 66.64 ng

RT: 15.19 min Scan# 2227

Delta R.T. -0.01 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Instrument :

BNA_F

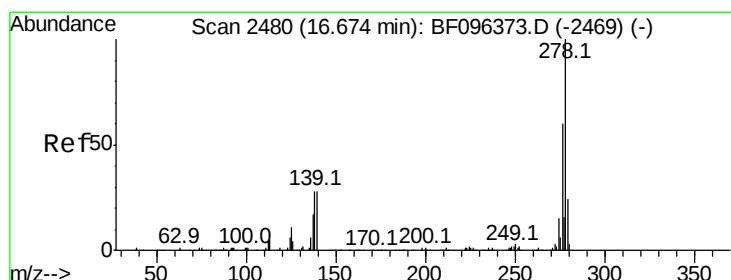
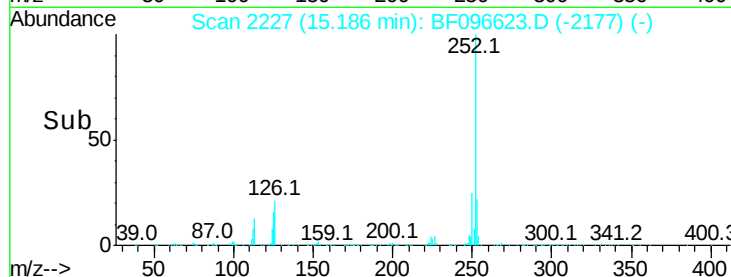
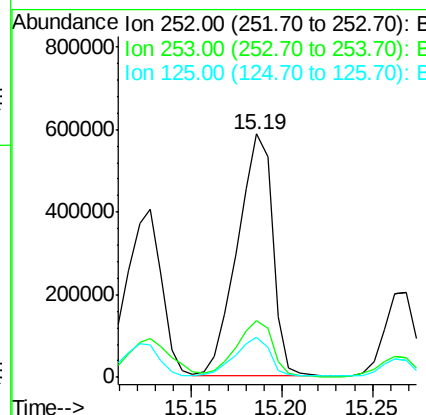
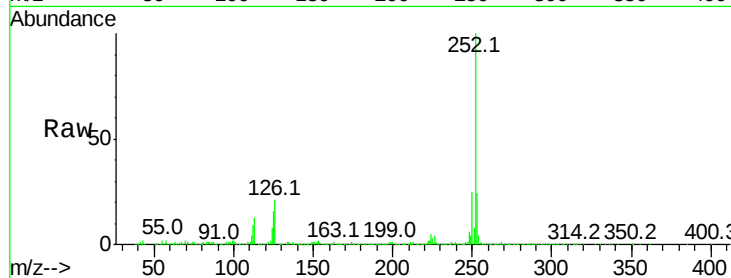
ClientSampleId :

BU-01-070617-C

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.5	17.5	26.3
125	16.5	11.0	16.4

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#90

Dibenzo(a,h)anthracene

Concen: 12.66 ng

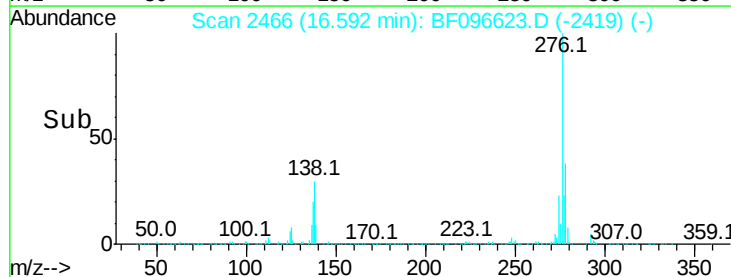
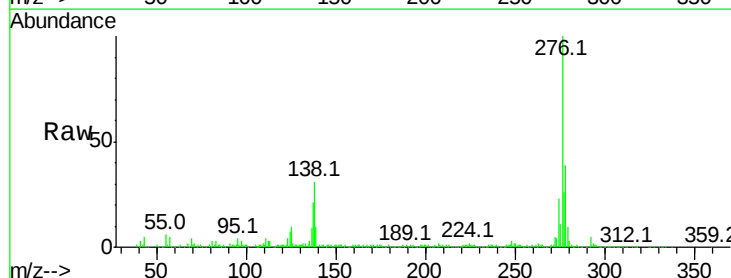
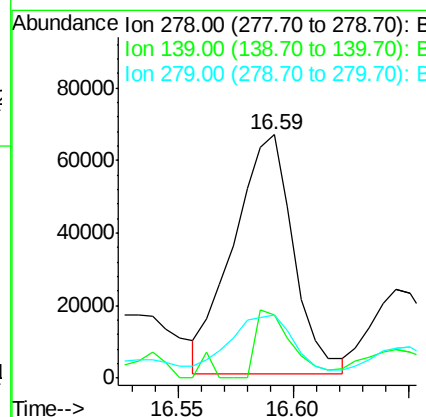
RT: 16.59 min Scan# 2466

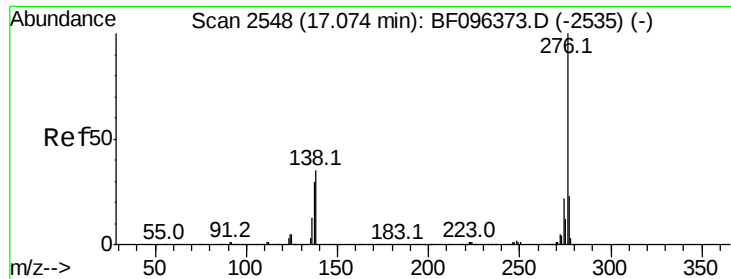
Delta R.T. -0.02 min

Lab File: BF096623.D

Acq: 11 Jul 2017 1:29

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	26.1	16.6	24.8
279	26.1	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 37.22 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. -0.02 min
 Lab File: BF096623.D
 Acq: 11 Jul 2017 1:29

Instrument :
 BNA_F
 ClientSampleId :
 BU-01-070617-C

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	34.3	25.4	38.0

Manual Integrations
 APPROVED

mohammad
 7/11/2017 1:35:35 PM

