

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096883.D
 Acq On : 19 Jul 2017 21:24
 Operator : SJ/JU
 Sample : I4280-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-B

Manual Integrations
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Sohil
 7/20/2017 3:05:03 PM

Quant Time: Jul 20 05:07:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	116281	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	503005	20.00	ng	-0.02
38) Acenaphthene-d10	9.62	164	178557	20.00	ng	-0.02
63) Phenanthrene-d10	11.10	188	254757	20.00	ng	0.00
75) Chrysene-d12	13.73	240	199689	20.00	ng	0.00
86) Perylene-d12	15.10	264	165586	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	680125	87.94	ng	0.00
7) Phenol-d6	6.24	99	832234	89.68	ng	-0.01
23) Nitrobenzene-d5	7.15	82	485169	59.74	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	127557	83.69	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	804721	71.20	ng	-0.01
78) Terphenyl-d14	12.68	244	441988	38.39	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.25	94	33409	3.184	ng	94
20) 3+4-Methylphenols	7.01	107	46066	5.851	ng	# 57
31) Naphthalene	7.89	128	284286	11.931	ng	99
37) 2-Methylnaphthalene	8.58	142	197050	12.971	ng	98
48) Acenaphthylene	9.47	152	121258	6.749	ng	# 96
49) Dimethylphthalate	9.35	163	96364	7.167	ng	100
51) Acenaphthene	9.65	154	108541	10.226	ng	96
54) Dibenzofuran	9.82	168	98431	6.618	ng	# 95
57) Fluorene	10.16	166	266947	24.288	ng	100
70) Phenanthrene	11.13	178	1050482	75.836	ng	99
71) Anthracene	11.17	178	329173	23.503	ng	99
72) Carbazole	11.33	167	90857	6.699	ng	98
74) Fluoranthene	12.31	202	832099	62.758	ng	99
77) Pyrene	12.53	202	925516	51.069	ng	99
80) Benzo(a)anthracene	13.72	228	399559	32.113	ng	95
82) Chrysene	13.75	228	341014m	27.841	ng	
85) Indeno(1,2,3-cd)pyrene	16.37	276	109048	12.473	ng	93
87) Benzo(b)fluoranthene	14.73	252	317932m	31.835	ng	
88) Benzo(k)fluoranthene	14.74	252	100800m	10.659	ng	
89) Benzo(a)pyrene	15.04	252	257112	28.070	ng	99
90) Dibenzo(a,h)anthracene	16.38	278	33344	3.956	ng	# 71
91) Benzo(g,h,i)perylene	16.76	276	111269	12.329	ng	98

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

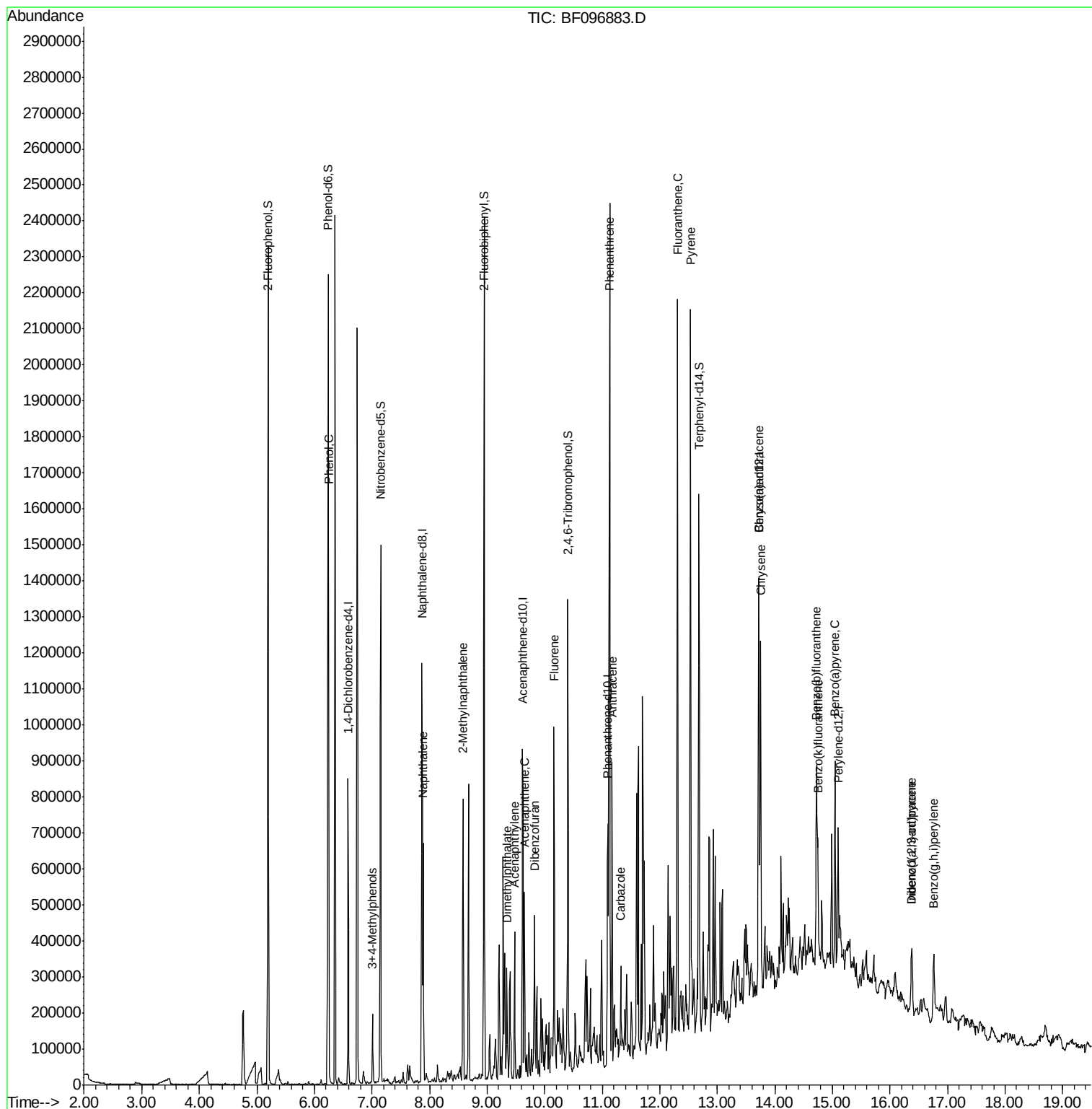
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
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ALS Vial : 16 Sample Multiplier: 1

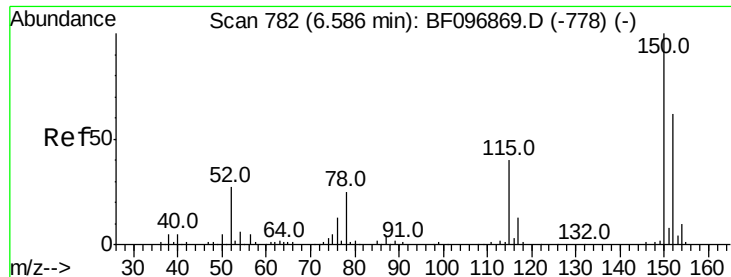
Instrument :
BNA_F
ClientSampleId :
CL-01-071817-B

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Quant Time: Jul 20 05:07:02 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 18 13:33:22 2017
Response via : Initial Calibration





#1

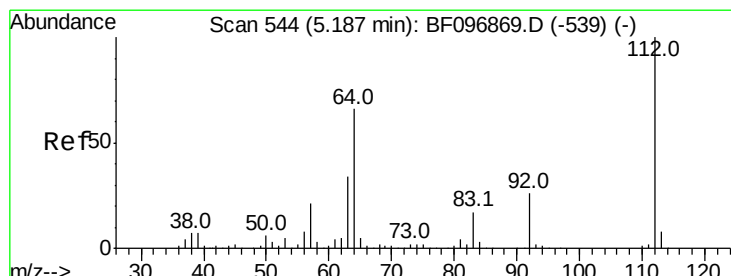
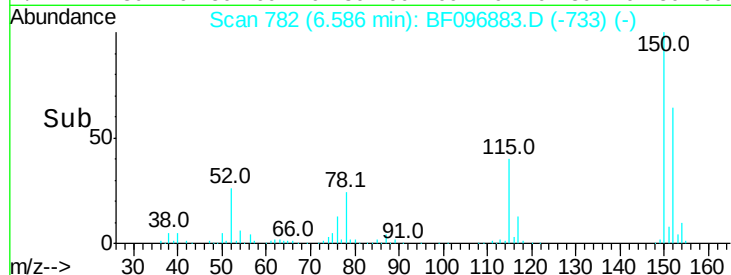
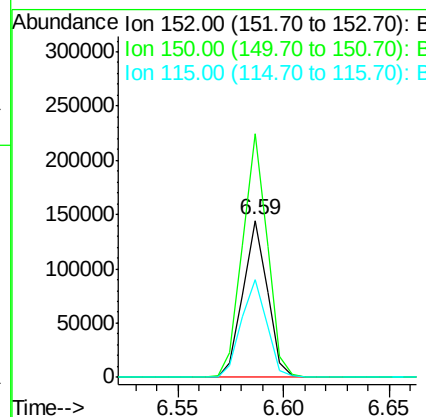
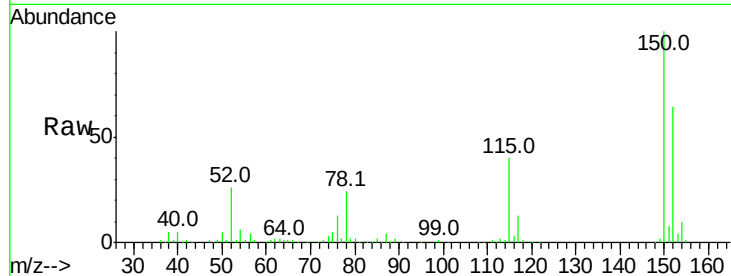
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.59 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	126.2	189.2
115	62.7	52.2	78.2

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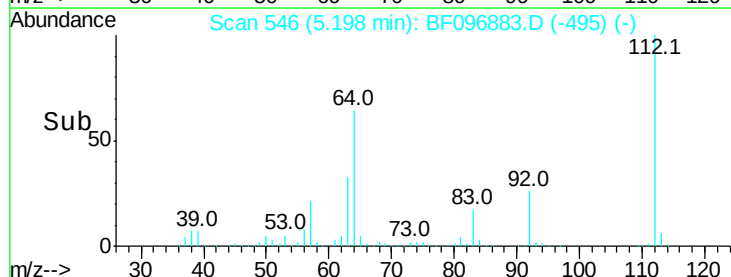
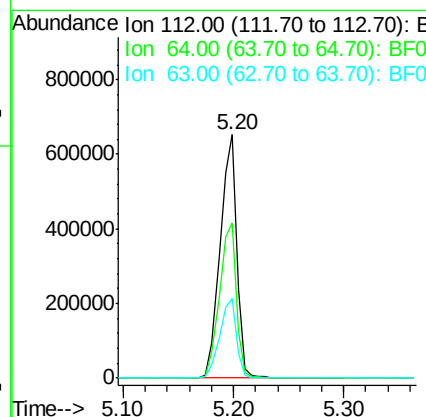
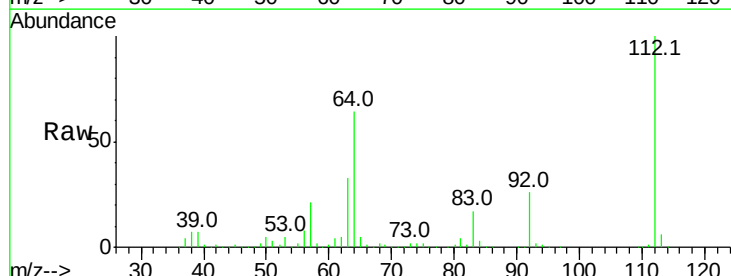
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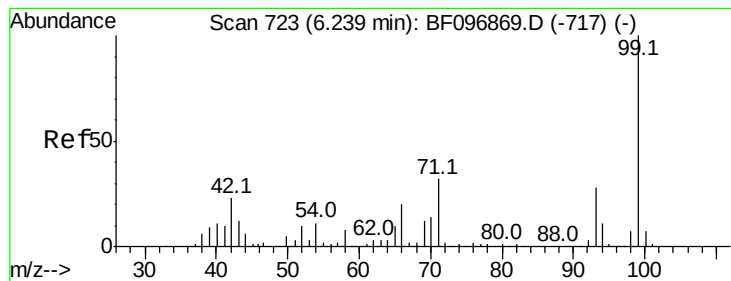


#5

2-Fluorophenol
Concen: 87.944 ng
RT: 5.20 min Scan# 546
Delta R.T. -0.00 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.9	46.0	69.0
63	32.9	23.4	35.0





#7

Phenol-d6

Concen: 89.675 ng

RT: 6.24 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

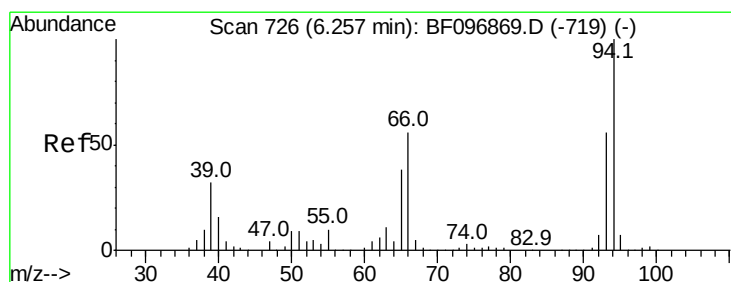
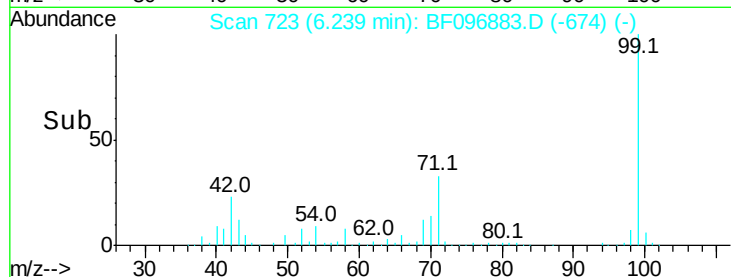
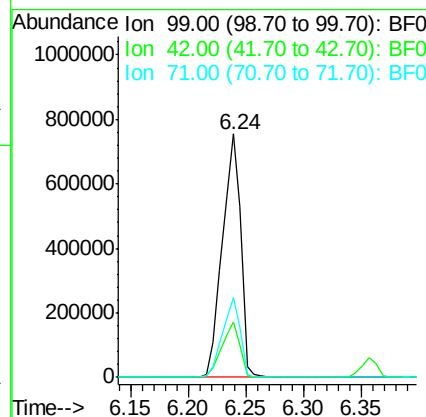
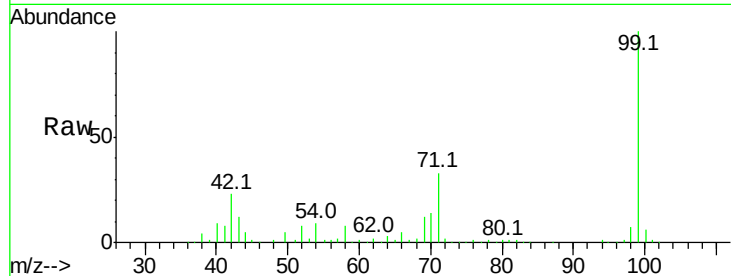
ClientSampleId :

CL-01-071817-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		832234		
42	22.7	13.5	20.3#		
71	32.8	24.5	36.7		

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#10

Phenol

Concen: 3.184 ng

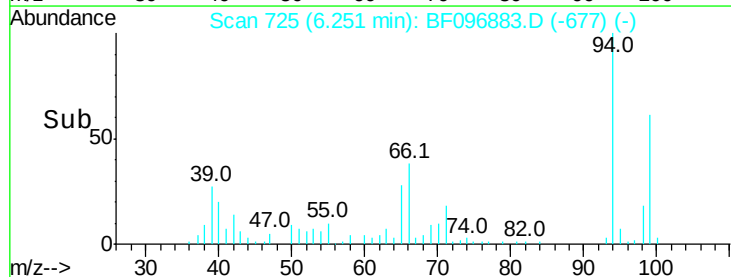
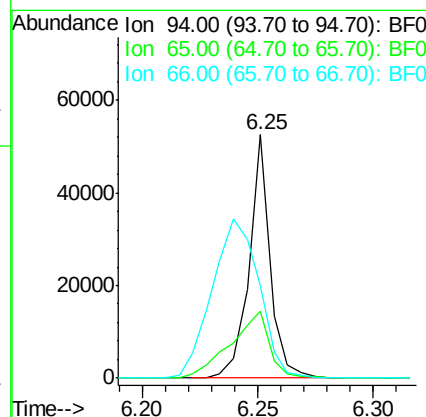
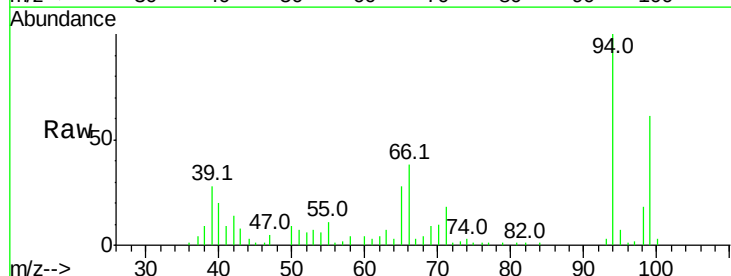
RT: 6.25 min Scan# 725

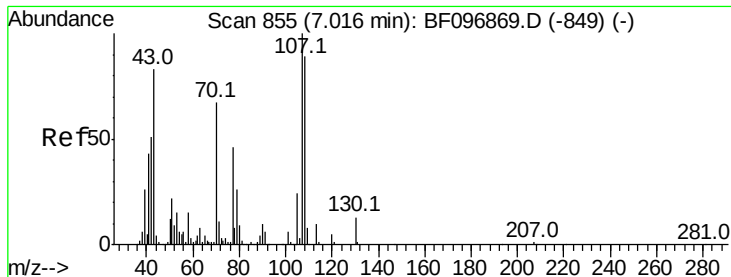
Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		33409		
65	27.7	9.9	49.9		
66	38.1	23.1	63.1		





#20

3+4-Methylphenols

Concen: 5.851 ng

RT: 7.01 min Scan# 854

Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

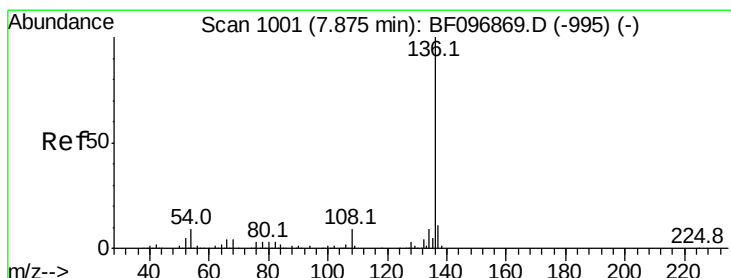
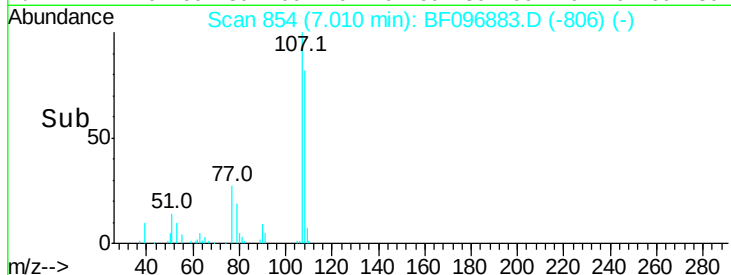
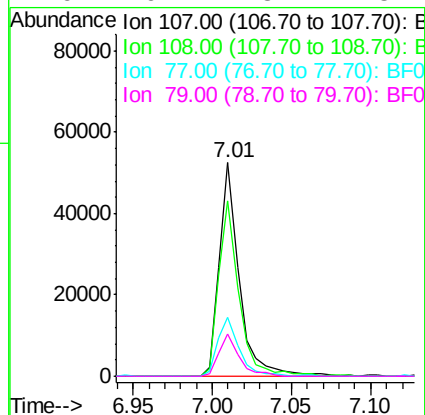
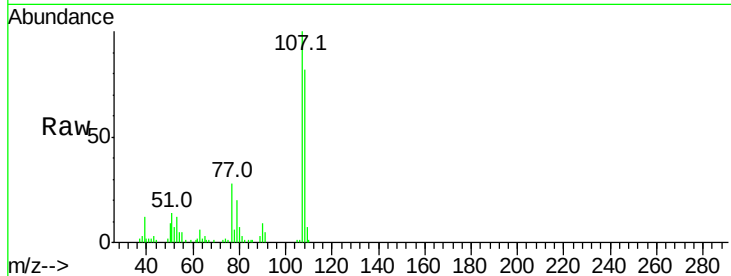
ClientSampleId :

CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
107	100		
108	82.0	71.0	111.0
77	27.8	90.5	130.5#
79	20.1	8.4	48.4

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#21

Naphthalene-d8

Concen: 20.000 ng

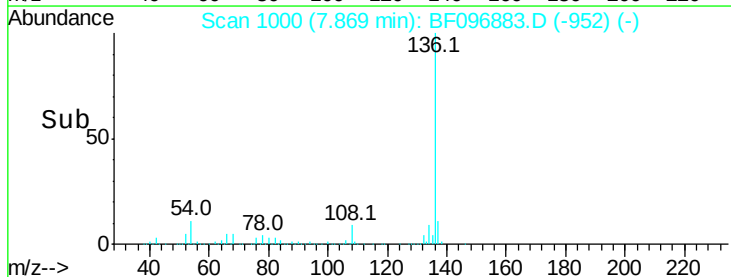
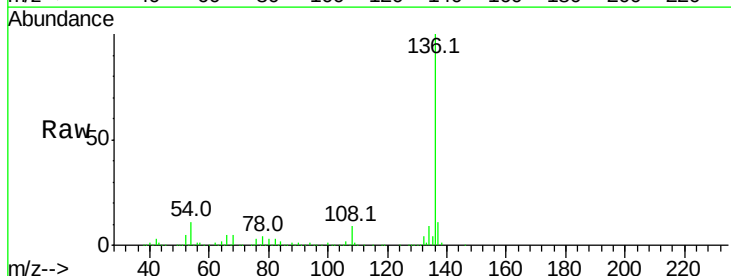
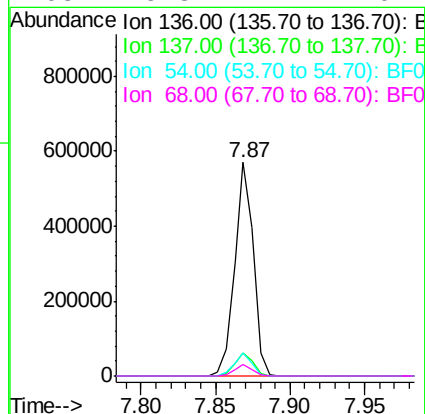
RT: 7.87 min Scan# 1000

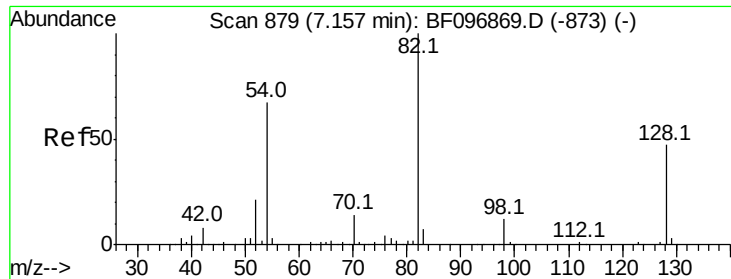
Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	10.7	4.9	7.3#
68	5.3	4.1	6.1





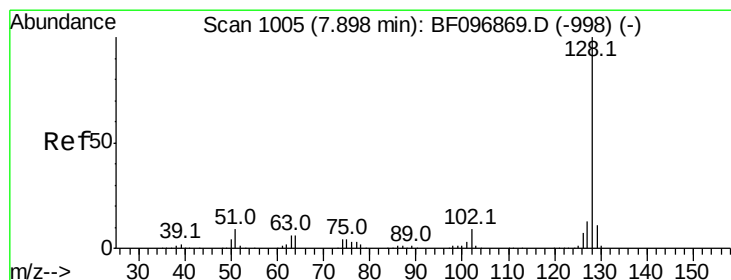
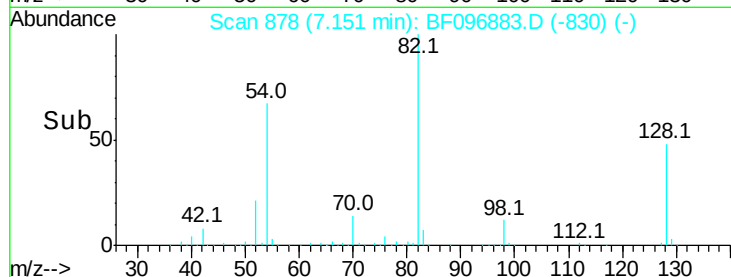
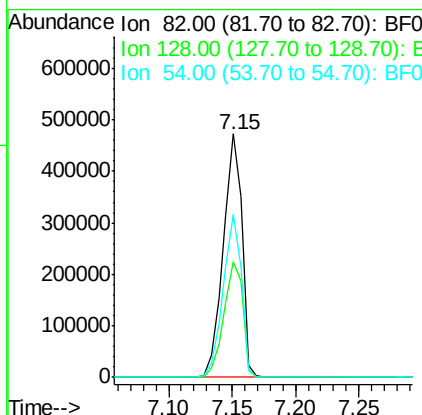
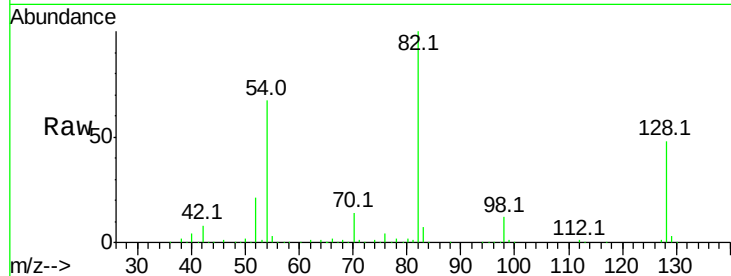
#23
Nitrobenzene-d5
Concen: 59.744 ng
RT: 7.15 min Scan# 878
Delta R.T. -0.02 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.6	34.0	51.0
54	66.9	42.2	63.2

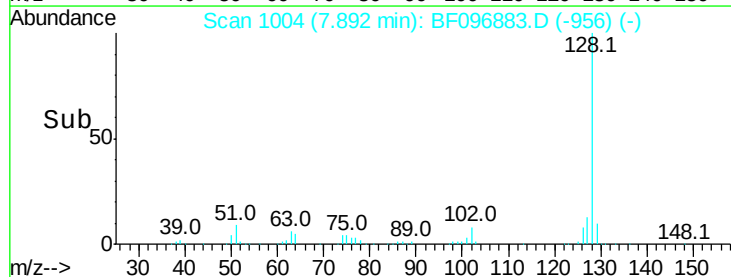
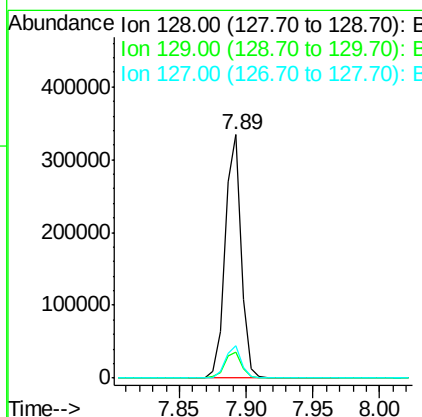
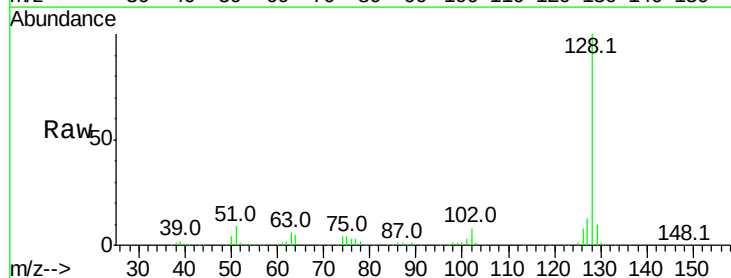
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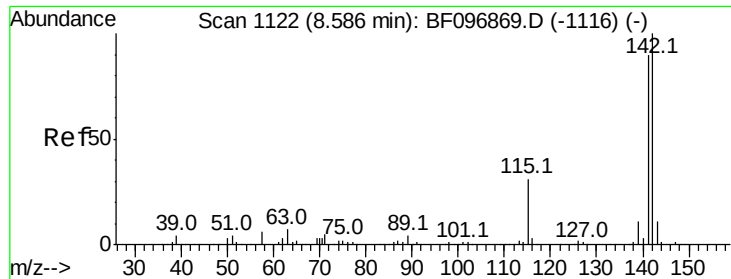
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#31
Naphthalene
Concen: 11.931 ng
RT: 7.89 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.6
127	13.2	10.8	16.2





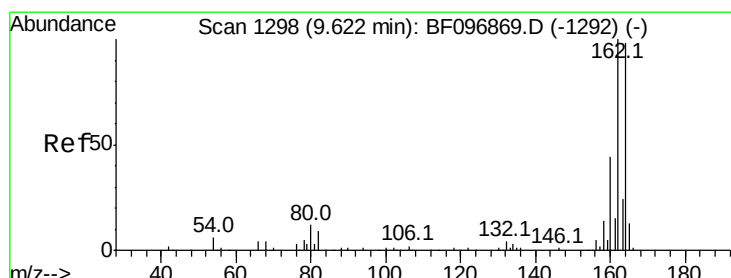
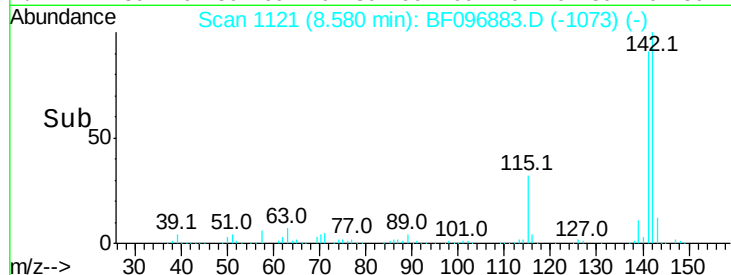
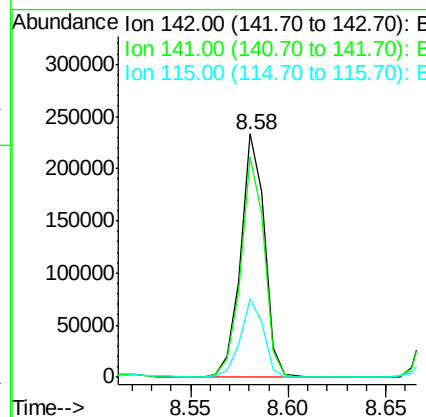
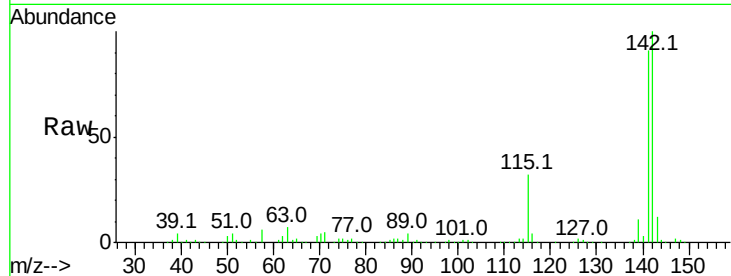
#37
 2-Methylnaphthalene
 Concen: 12.971 ng
 RT: 8.58 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100	197050		
141	90.7	71.3	106.9	
115	32.5	27.1	40.7	

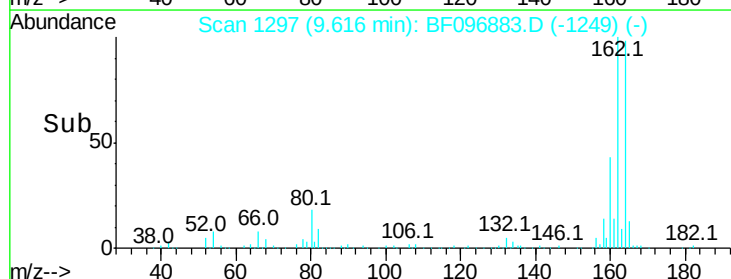
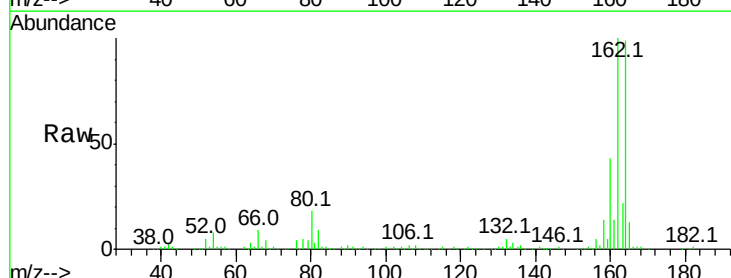
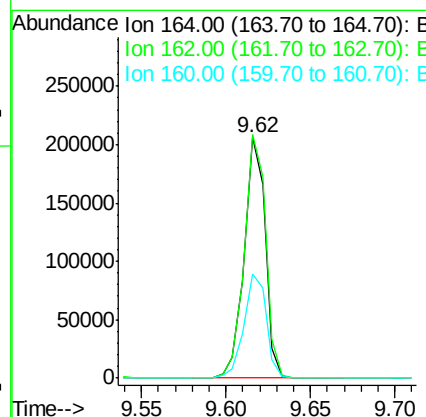
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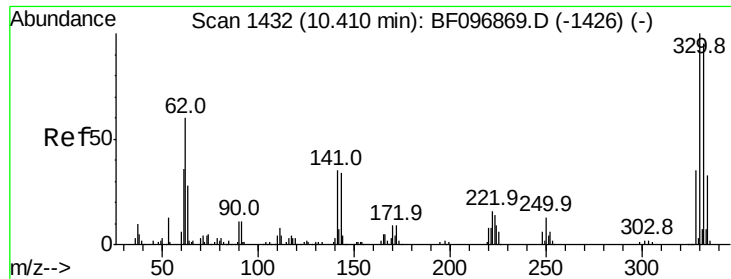
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.62 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	178557		
162	101.2	82.6	123.8	
160	43.3	36.2	54.2	





#41

2,4,6-Tribromophenol

Concen: 83.691 ng

RT: 10.40 min Scan# 1431

Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

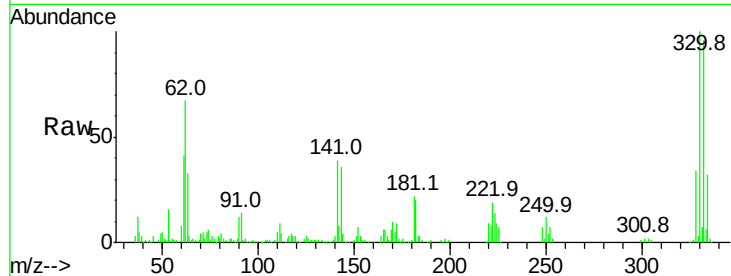
ClientSampleId :

CL-01-071817-B

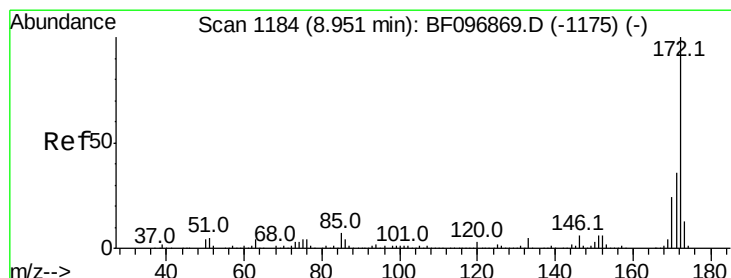
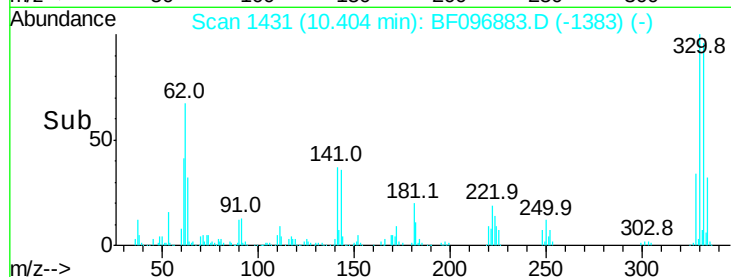
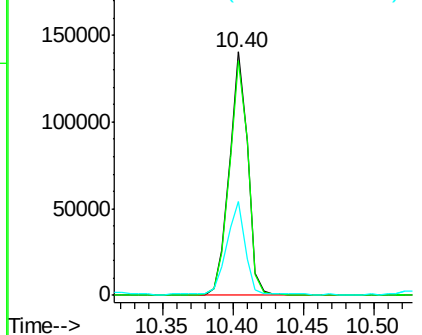
Tot Ion:	330	Resp:	127557
Ion Ratio	Lower	Upper	
330	100		
332	97.0	76.6	115.0
141	37.2	31.4	47.2

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 71.204 ng

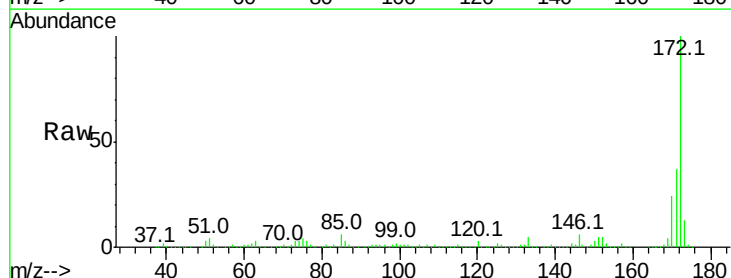
RT: 8.95 min Scan# 1184

Delta R.T. -0.01 min

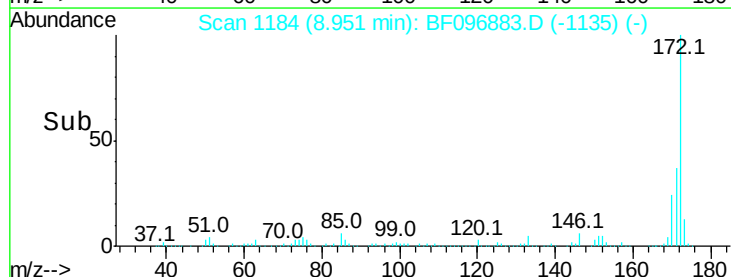
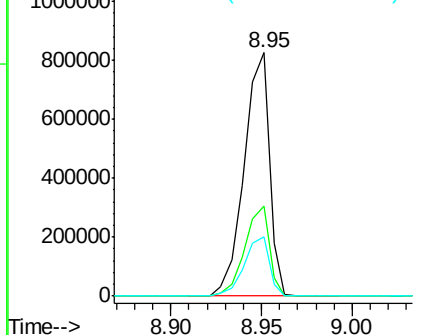
Lab File: BF096883.D

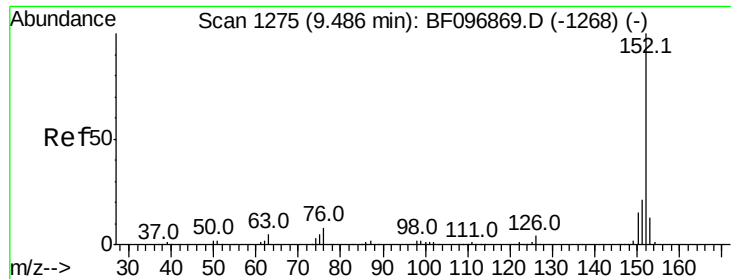
Acq: 19 Jul 2017 21:24

Tgt Ion:	172	Resp:	804721
Ion Ratio	Lower	Upper	
172	100		
171	37.1	29.6	44.4
170	24.2	19.8	29.8



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





#48

Acenaphthylene

Concen: 6.749 ng

RT: 9.47 min Scan# 1273

Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

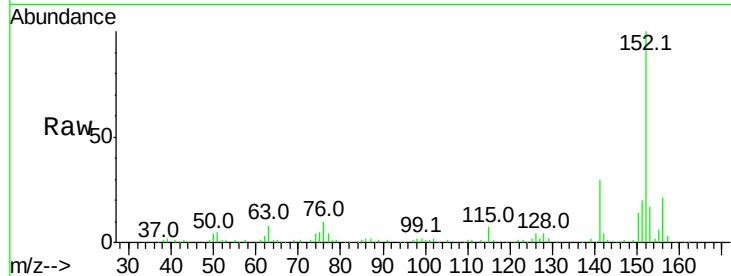
ClientSampleId :

CL-01-071817-B

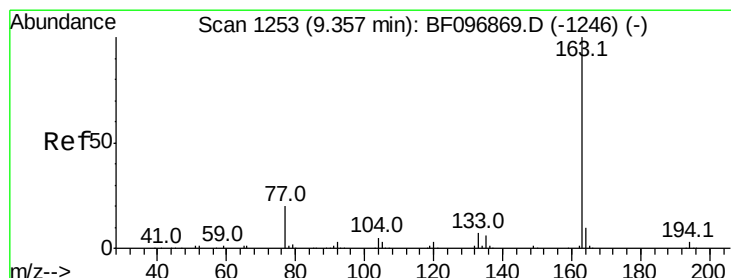
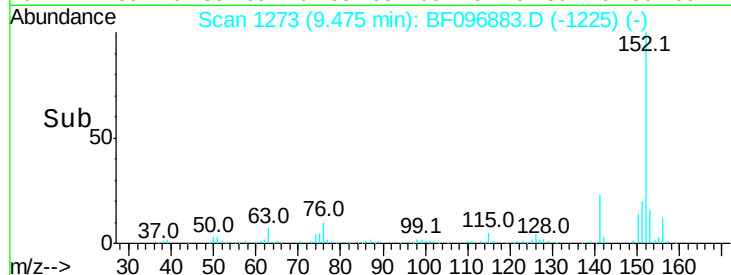
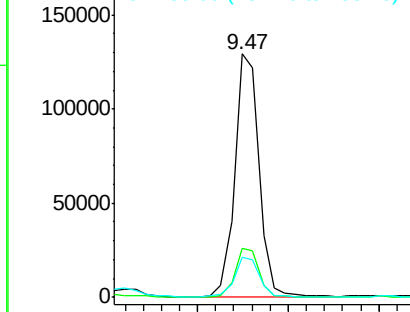
Tot Ion	Ratio	Resp	Lower	Upper
152	100	121258		
151	20.1		16.8	25.2
153	16.7		10.8	16.2#

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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



#49

Dimethylphthalate

Concen: 7.167 ng

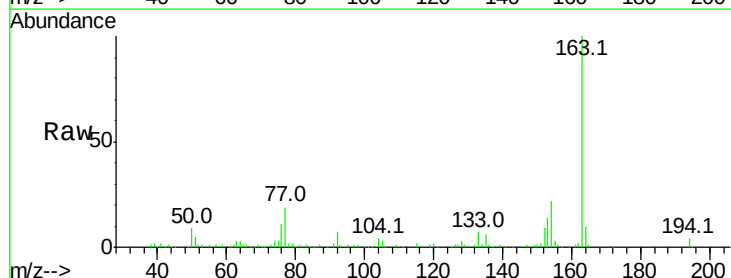
RT: 9.35 min Scan# 1251

Delta R.T. -0.02 min

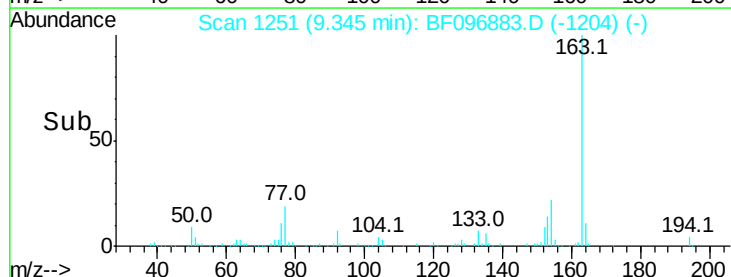
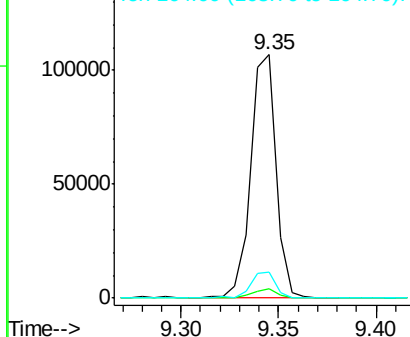
Lab File: BF096883.D

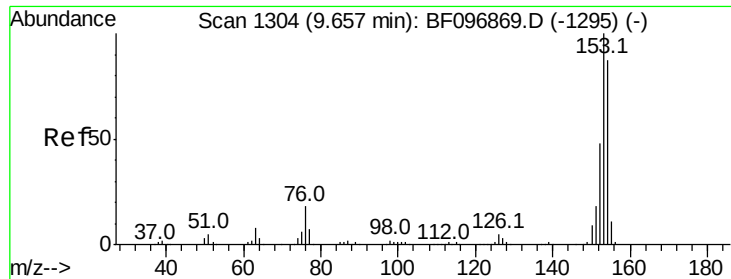
Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	96364		
194	3.8		2.6	4.0
164	10.5		8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 10.226 ng

RT: 9.65 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

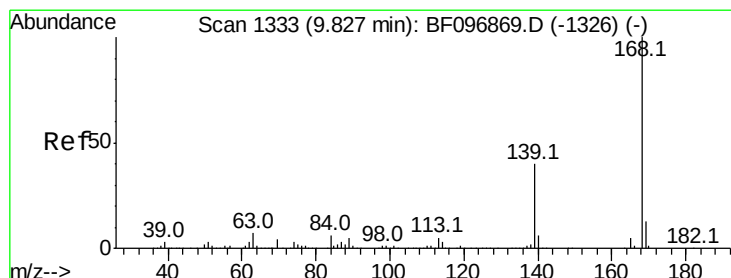
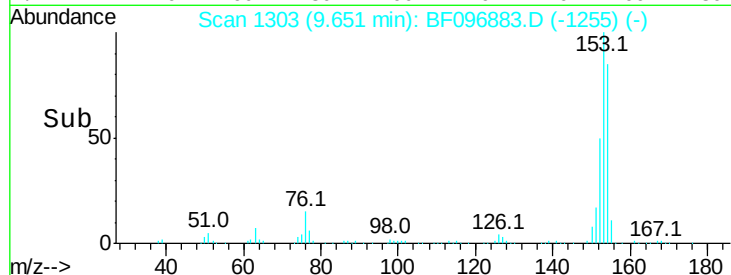
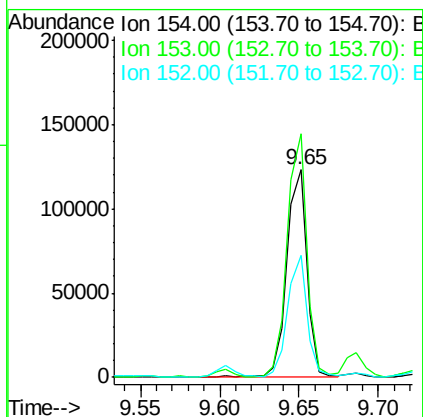
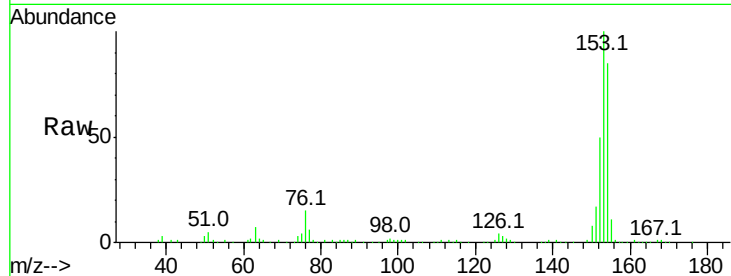
ClientSampleId :

CL-01-071817-B

Tot Ion:	154	Resp:	108541
Ion Ratio	Lower	Upper	
154	100		
153	117.3	90.5	135.7
152	58.5	43.6	65.4

Manual Integrations
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#54

Dibenzofuran

Concen: 6.618 ng

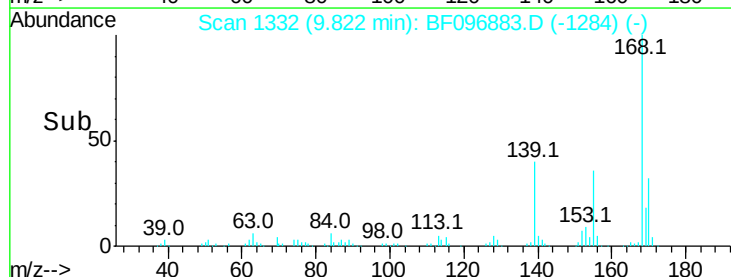
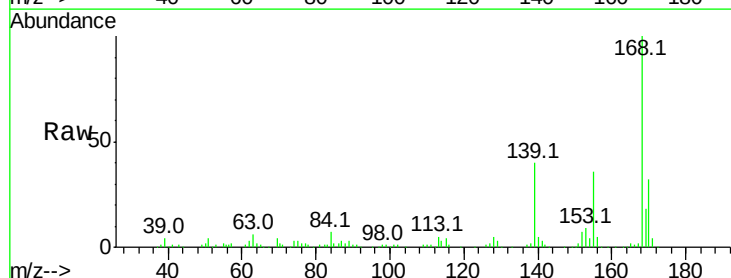
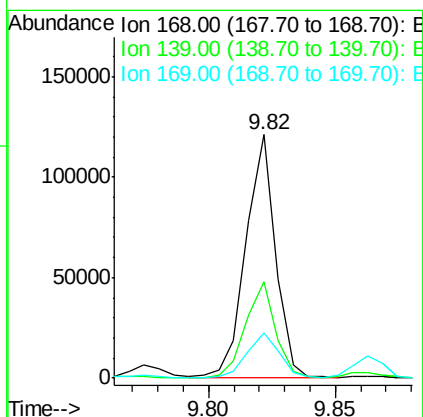
RT: 9.82 min Scan# 1332

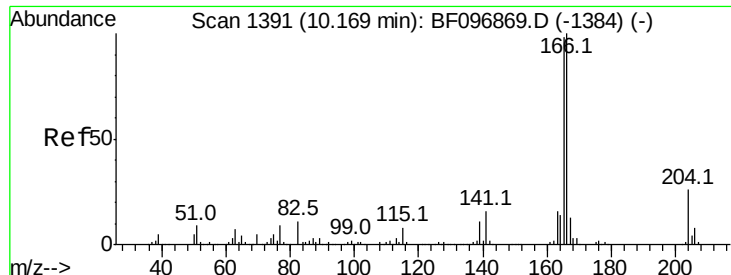
Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion:	168	Resp:	98431
Ion Ratio	Lower	Upper	
168	100		
139	39.8	30.6	45.8
169	18.3	10.8	16.2#





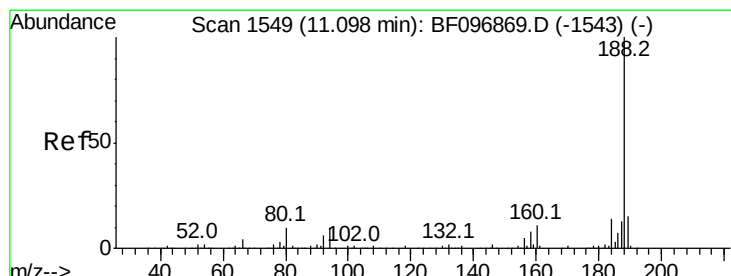
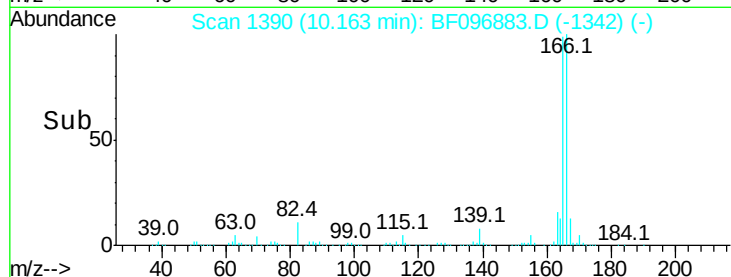
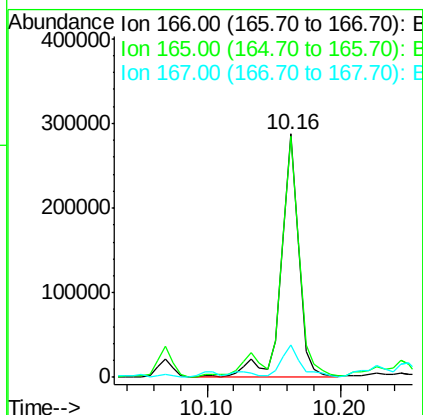
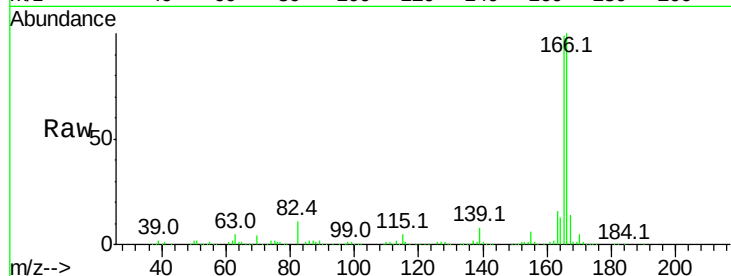
#57
Fluorene
 Concen: 24.288 ng
 RT: 10.16 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-B

Tot Ion	Ratio	Resp	Lower	Upper
166	100	266947		
165	98.8	78.8	118.2	
167	13.5	10.6	16.0	

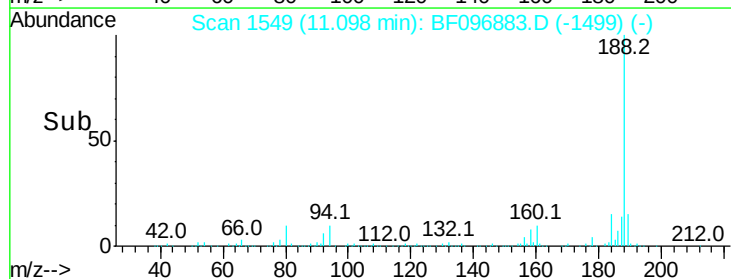
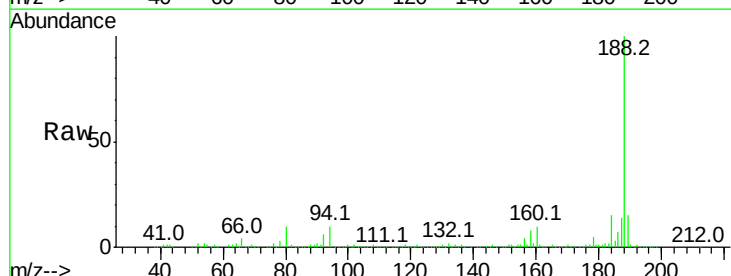
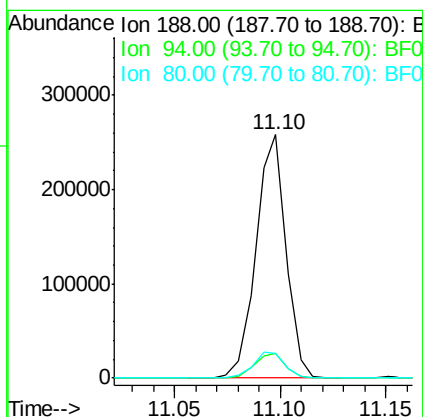
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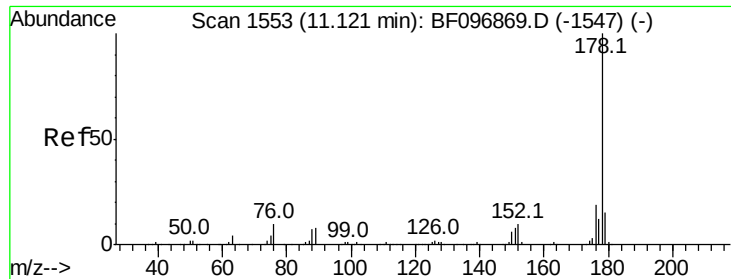
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.10 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	254757		
94	10.1	9.4	14.2	
80	10.3	10.2	15.2	





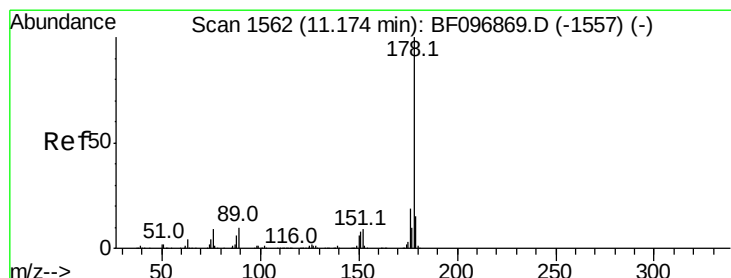
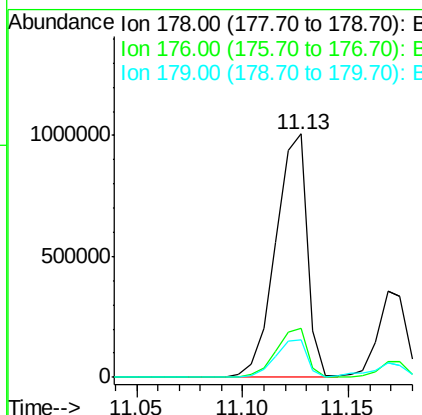
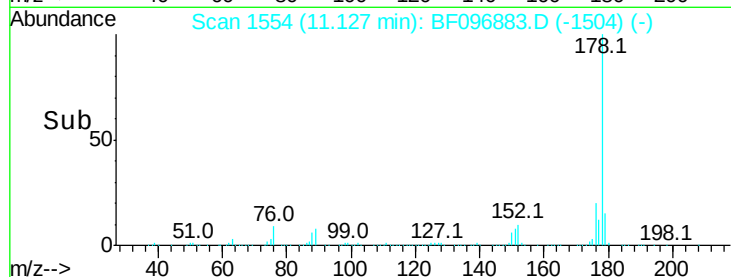
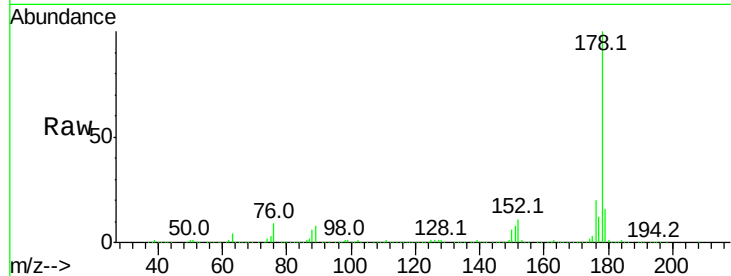
#70
Phenanthrene
Concen: 75.836 ng
RT: 11.13 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Instrument :
BNA_F
ClientSampled :
CL-01-071817-B

Tot Ion:178 Resp: 1050482
Ion Ratio Lower Upper
178 100
176 20.0 16.2 24.4
179 15.5 12.6 19.0

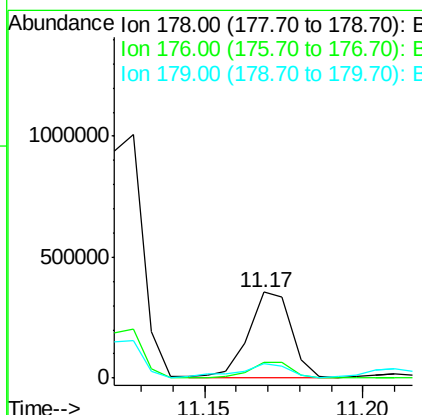
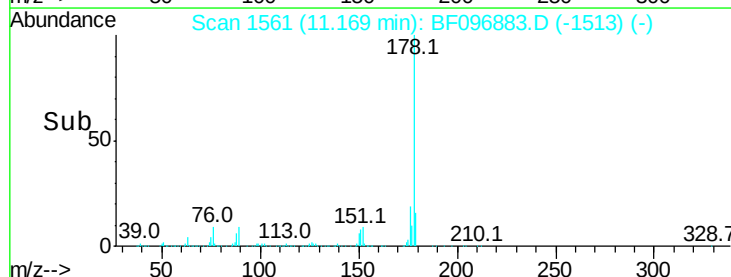
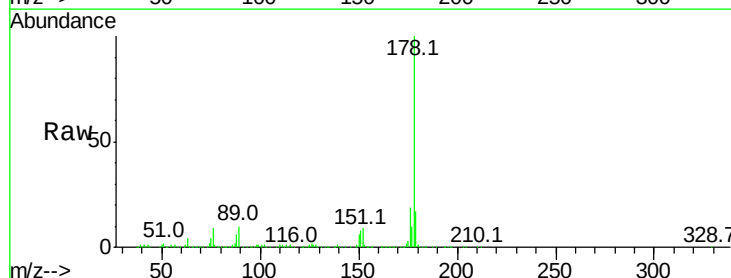
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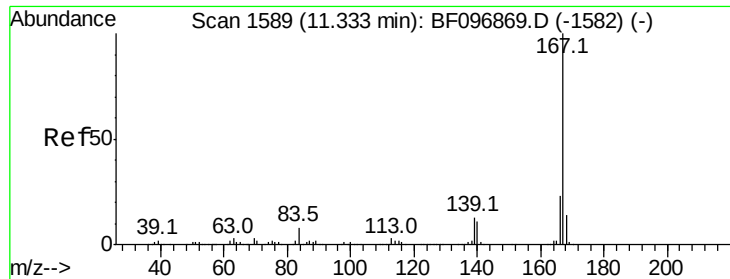
Sohil
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#71
Anthracene
Concen: 23.503 ng
RT: 11.17 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Tgt Ion:178 Resp: 329173
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 16.5 12.7 19.1





#72

Carbazole

Concen: 6.699 ng

RT: 11.33 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

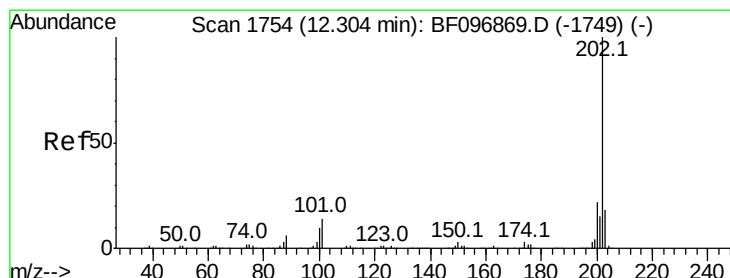
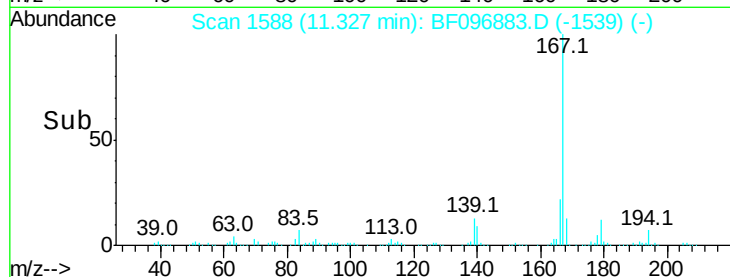
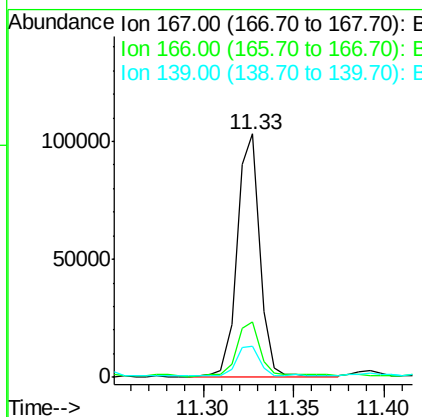
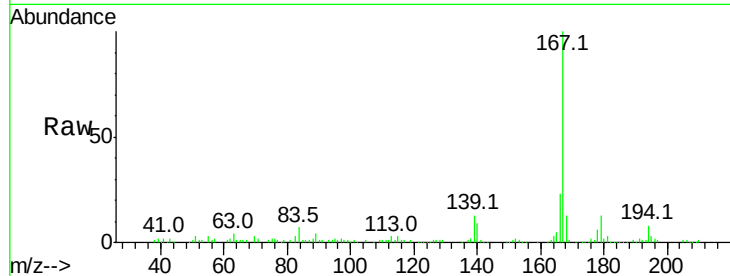
ClientSampleId :

CL-01-071817-B

Tot Ion:	167	Resp:	90857
Ion Ratio	Lower	Upper	
167	100		
166	22.5	18.1	27.1
139	13.0	11.7	17.5

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#74

Fluoranthene

Concen: 62.758 ng

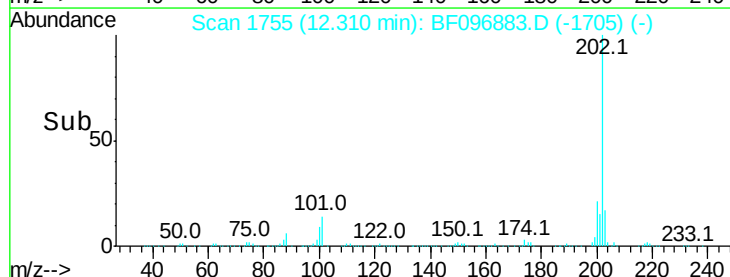
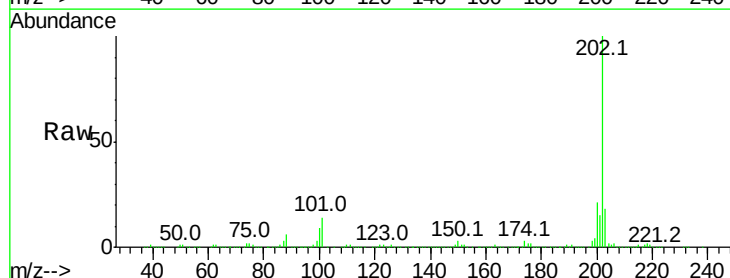
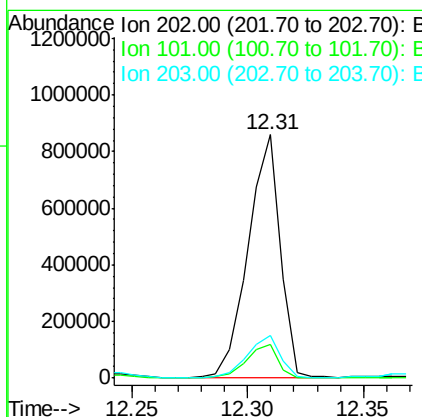
RT: 12.31 min Scan# 1755

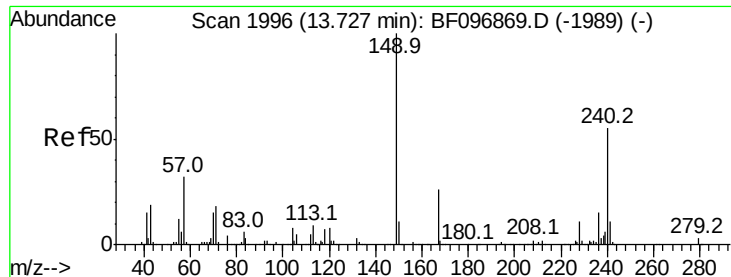
Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion:	202	Resp:	832099
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	33.2
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.73 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

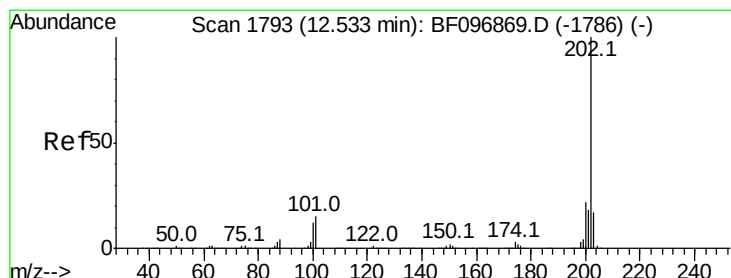
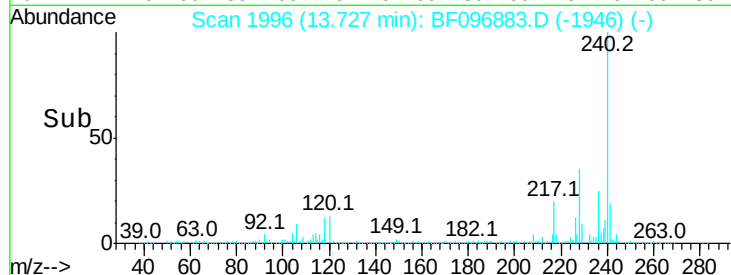
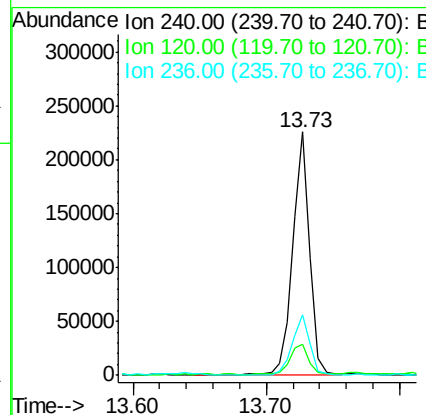
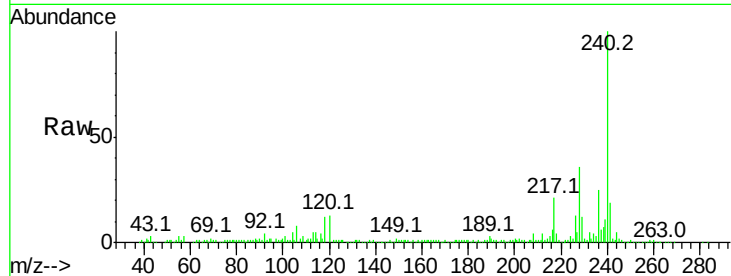
ClientSampleId :

CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.0	5.8	8.8#
236	24.9	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 51.069 ng

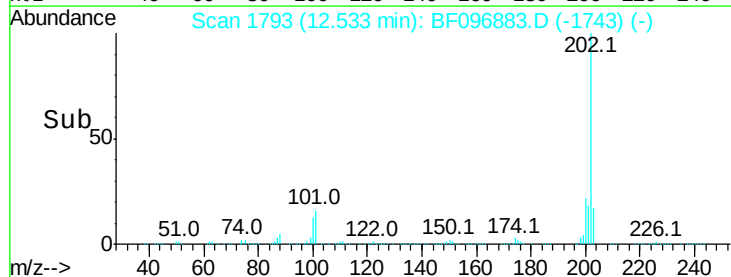
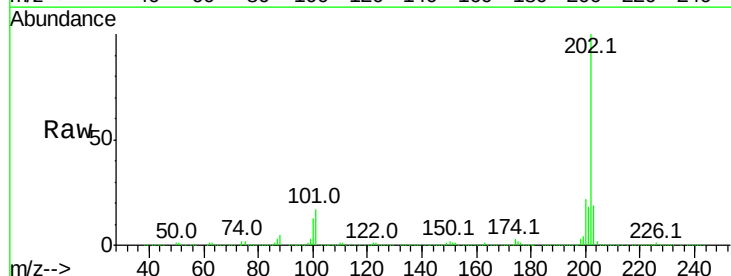
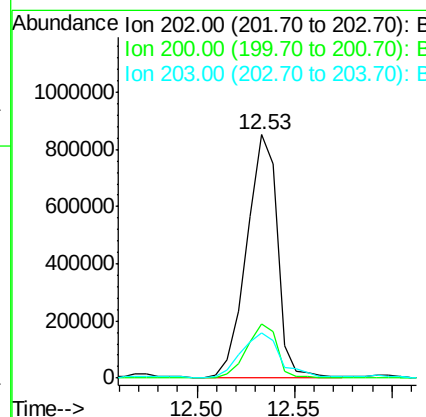
RT: 12.53 min Scan# 1793

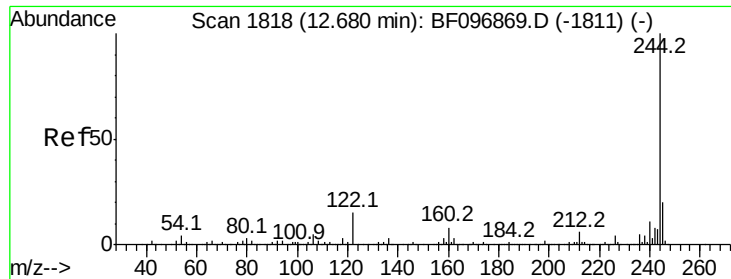
Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.6	26.4
203	18.5	14.4	21.6





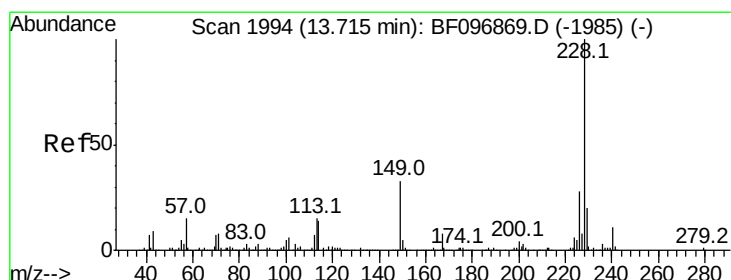
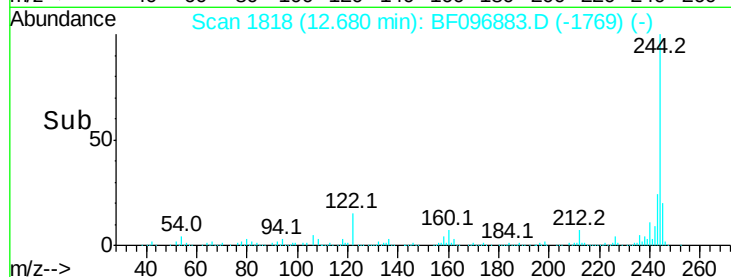
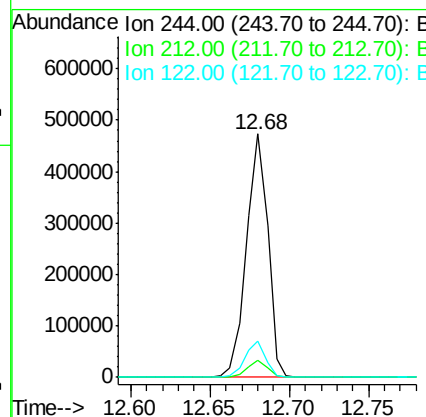
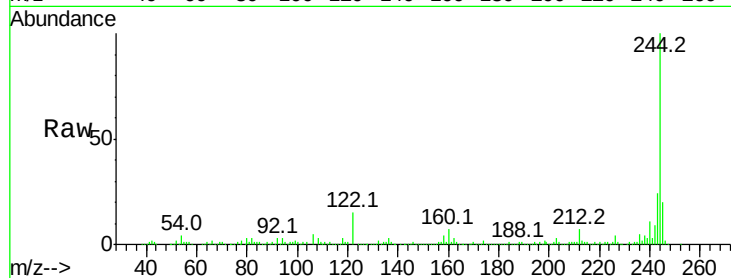
#78
 Terphenyl-d14
 Concen: 38.386 ng
 RT: 12.68 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.7	10.3	15.5

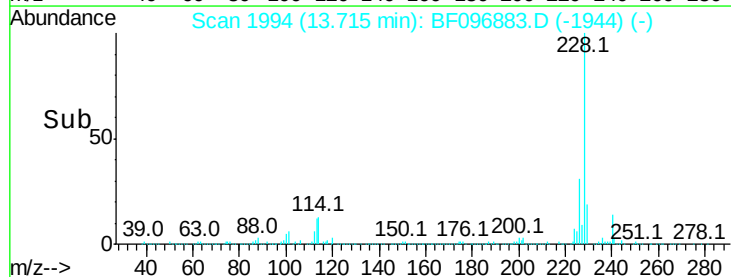
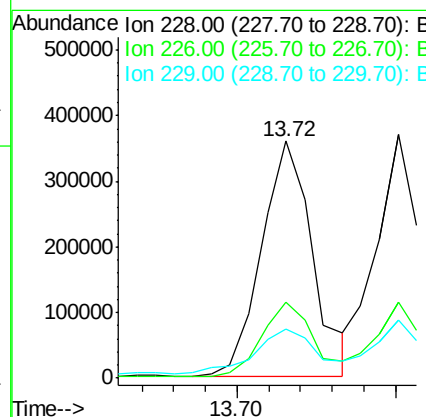
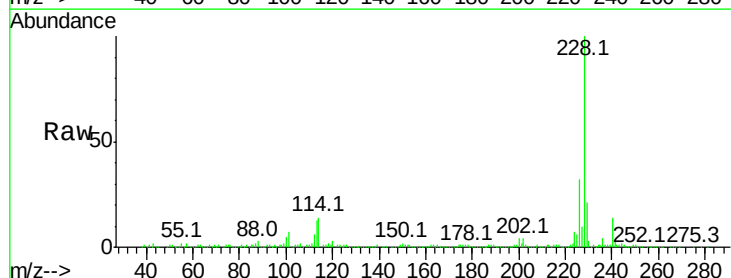
Manual Integrations
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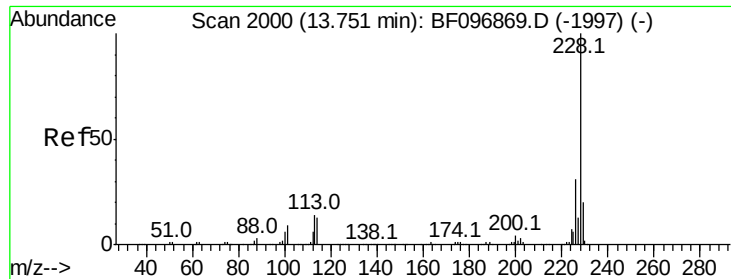
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#80
 Benzo(a)anthracene
 Concen: 32.113 ng
 RT: 13.72 min Scan# 1994
 Delta R.T. -0.01 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.1	22.6	33.8
229	20.8	16.3	24.5





#82

Chrysene

Concen: 27.841 ng

RT: 13.75 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Instrument :

BNA_F

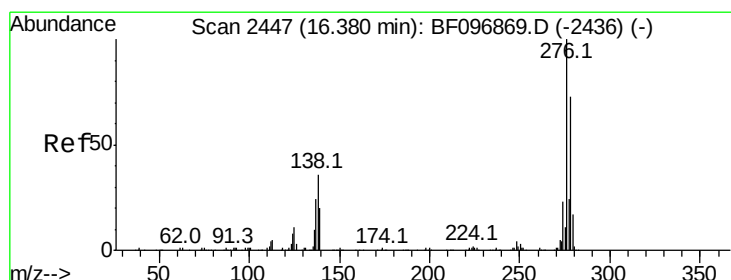
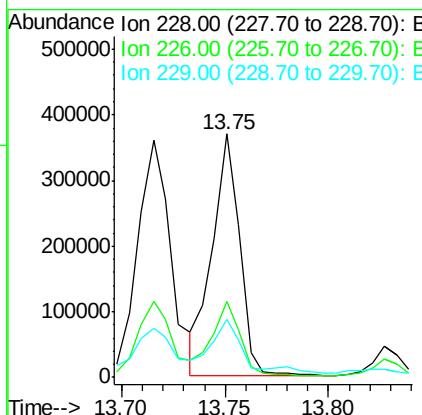
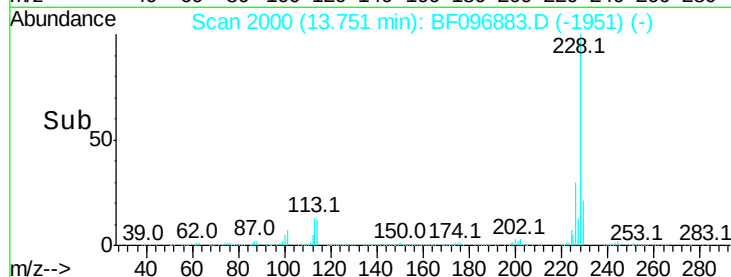
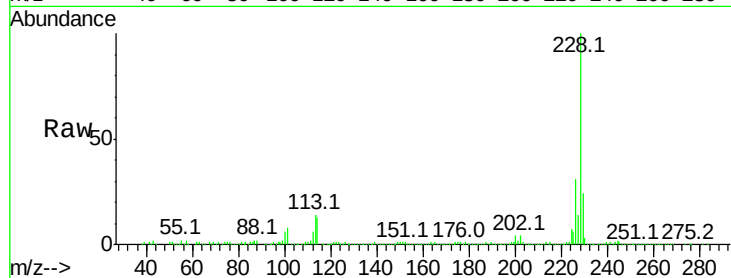
ClientSampleId :

CL-01-071817-B

Tot Ion:	228	Resp:	341014
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.9	37.3
229	23.8	15.8	23.6

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 12.473 ng

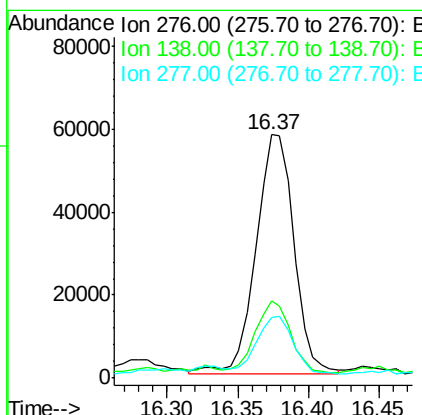
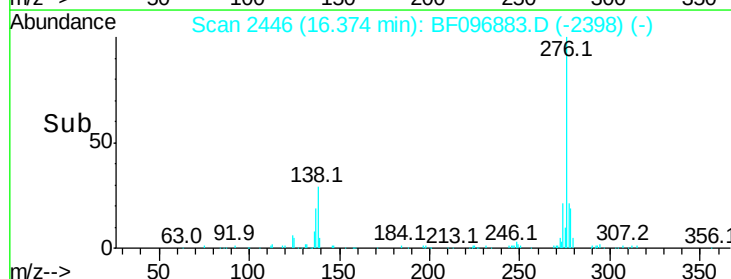
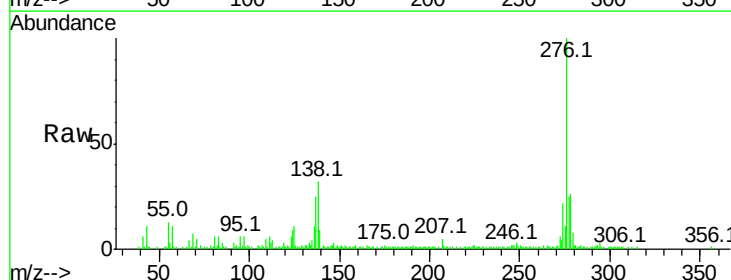
RT: 16.37 min Scan# 2446

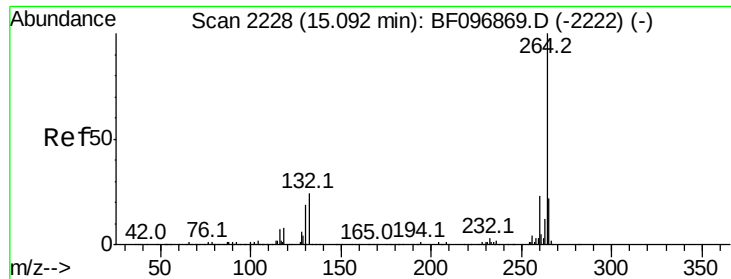
Delta R.T. -0.02 min

Lab File: BF096883.D

Acq: 19 Jul 2017 21:24

Tgt Ion:	276	Resp:	109048
Ion Ratio	Lower	Upper	
276	100		
138	28.6	27.8	41.6
277	23.7	20.2	30.4





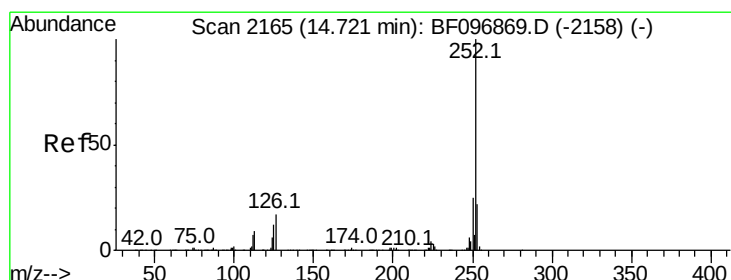
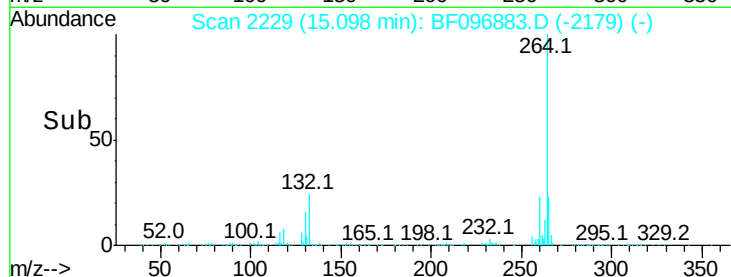
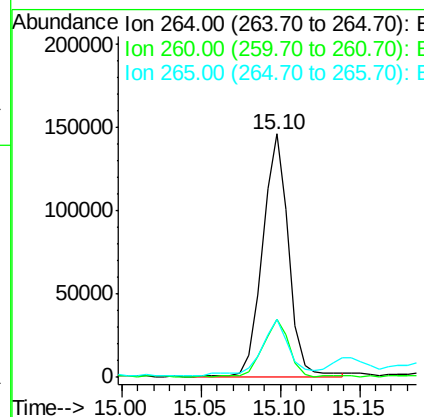
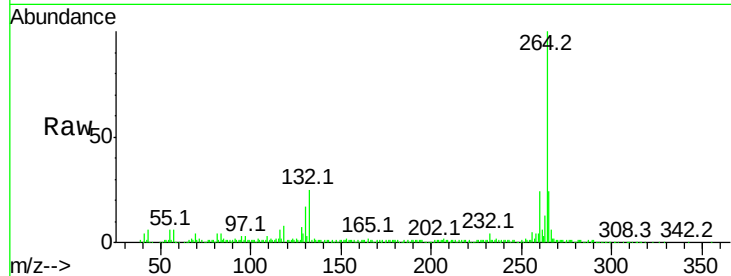
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.10 min Scan# 2229
Delta R.T. -0.01 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	23.7	17.2	25.8

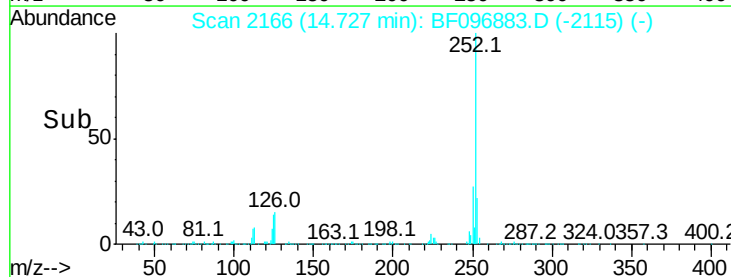
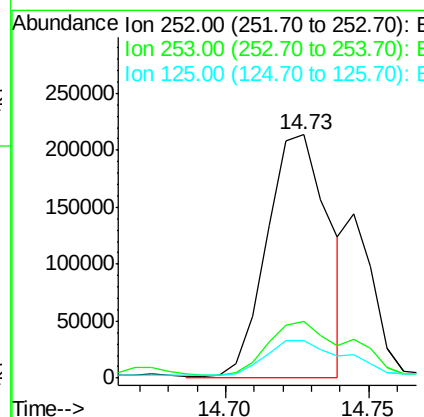
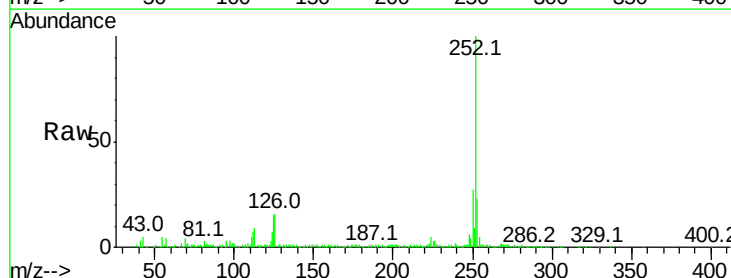
Manual Integrations
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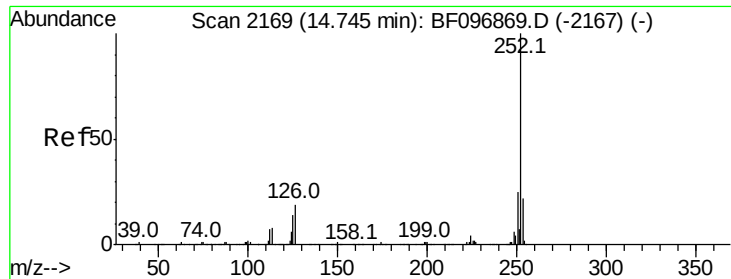
Sohil
7/20/2017 3:05:03 PM



#87
Benzo(b)fluoranthene
Concen: 31.835 ng m
RT: 14.73 min Scan# 2166
Delta R.T. -0.00 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	15.3	9.8	14.8





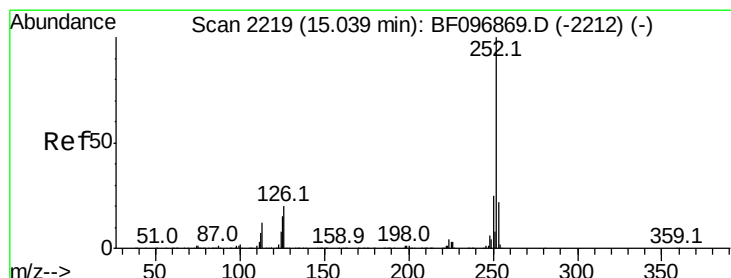
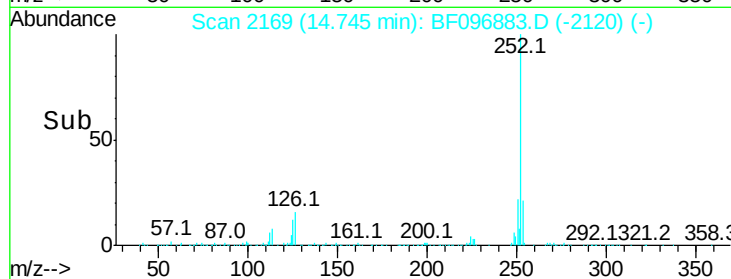
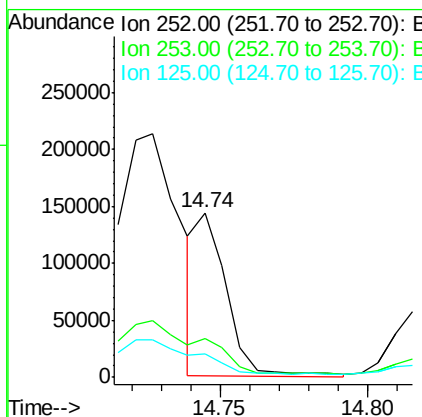
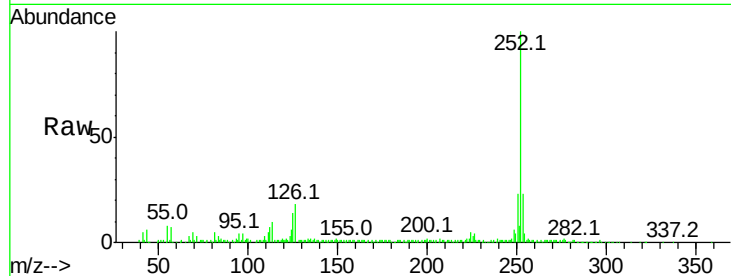
#88
Benzo(k)fluoranthene
Concen: 10.659 ng m
RT: 14.74 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Instrument :
BNA_F
ClientSampleId :
CL-01-071817-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	14.0	13.1	19.7

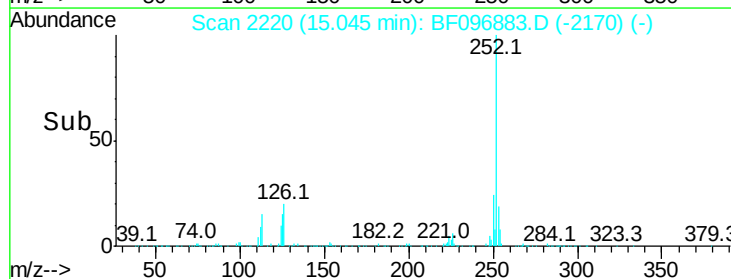
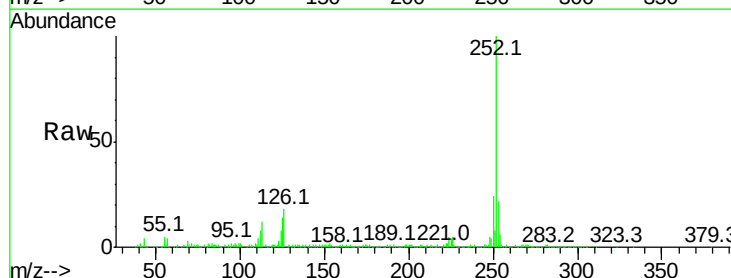
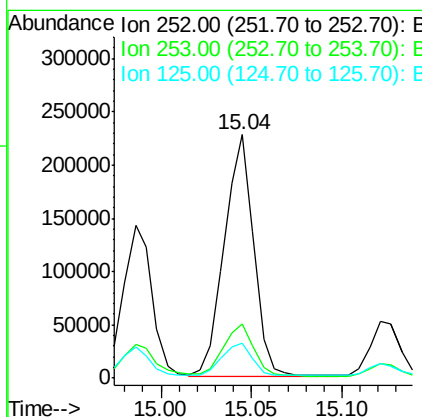
Manual Integrations
APPROVED

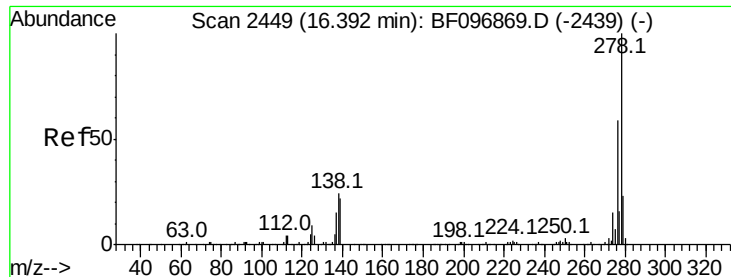
Sohil
7/20/2017 3:05:03 PM



#89
Benzo(a)pyrene
Concen: 28.070 ng
RT: 15.04 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF096883.D
Acq: 19 Jul 2017 21:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	14.2	11.0	16.4





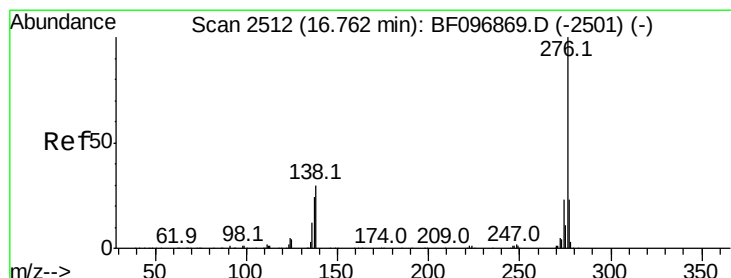
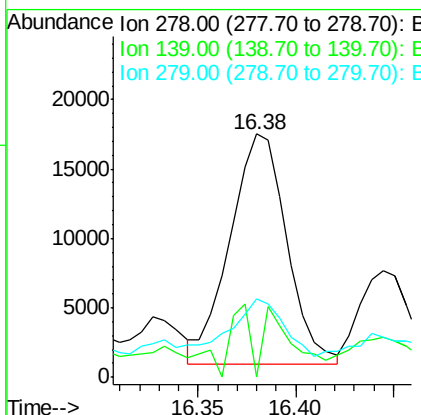
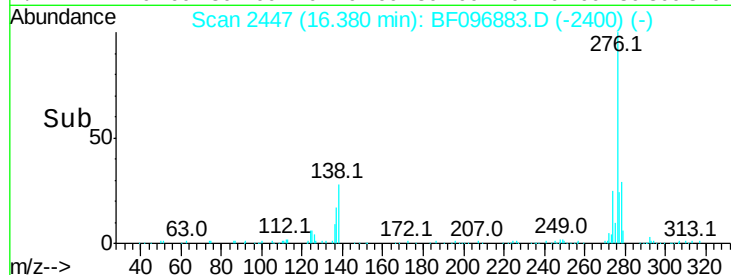
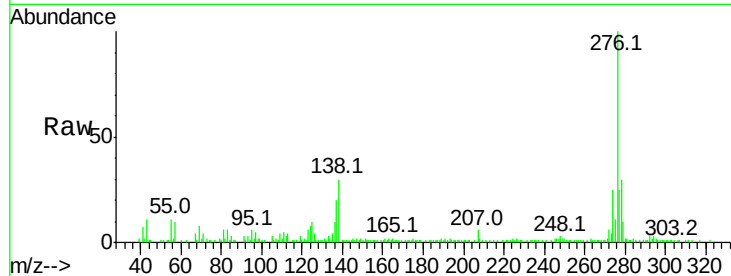
#90
 Dibenzo(a,h)anthracene
 Concen: 3.956 ng
 RT: 16.38 min Scan# 2447
 Delta R.T. -0.02 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-071817-B

Tot Ion:278	Resp:	33344
Ion Ratio	Lower	Upper
278	100	
139	0.0	16.6 24.8#
279	32.1	19.3 28.9#

Manual Integrations
 APPROVED

Sohil
 7/20/2017 3:05:03 PM



#91
 Benzo(g,h,i)perylene
 Concen: 12.329 ng
 RT: 16.76 min Scan# 2512
 Delta R.T. -0.02 min
 Lab File: BF096883.D
 Acq: 19 Jul 2017 21:24

Tgt Ion:276	Resp:	111269
Ion Ratio	Lower	Upper
276	100	
277	23.5	18.6 28.0
138	29.8	25.4 38.0

