

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061317\
 Data File : BF095921.D
 Acq On : 14 Jun 2017 8:36
 Operator : SJ/MA
 Sample : I3635-10DL 2X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-DDL

Manual Integrations
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Quant Time: Jun 14 12:04:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	71237	20.00	ng	-0.05
21) Naphthalene-d8	9.38	136	270396	20.00	ng	-0.05
38) Acenaphthene-d10	12.20	164	105758	20.00	ng	-0.05
63) Phenanthrene-d10	14.60	188	170597	20.00	ng	-0.05
75) Chrysene-d12	18.32	240	135587	20.00	ng	-0.04
86) Perylene-d12	19.99	264	96643	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	236714	52.95	ng	-0.03
7) Phenol-d6	6.92	99	288130	53.84	ng	-0.04
23) Nitrobenzene-d5	8.27	82	149498	34.34	ng	-0.05
41) 2,4,6-Tribromophenol	13.50	330	43333	46.31	ng	-0.05
44) 2-Fluorobiphenyl	11.16	172	320411	42.16	ng	-0.06
78) Terphenyl-d14	16.97	244	228060	41.74	ng	-0.05
Target Compounds						
49) Dimethylphthalate	11.86	163	33102	4.12	ng	Qvalue # 96
51) Acenaphthene	12.26	154	23043	3.43	ng	99
54) Dibenzofuran	12.56	168	29453	3.11	ng	94
57) Fluorene	13.10	166	52651	6.39	ng	99
70) Phenanthrene	14.64	178	414737	42.13	ng	99
71) Anthracene	14.73	178	118482	11.53	ng	98
72) Carbazole	15.04	167	21285	2.13	ng	# 96
74) Fluoranthene	16.42	202	507715	52.11	ng	99
77) Pyrene	16.72	202	410591	40.58	ng	96
80) Benzo(a)anthracene	18.31	228	174591	22.15	ng	99
82) Chrysene	18.35	228	157648	20.01	ng	98
85) Indeno(1,2,3-cd)pyrene	21.17	276	54537	8.09	ng	94
87) Benzo(b)fluoranthene	19.59	252	143588m	23.73	ng	
88) Benzo(k)fluoranthene	19.61	252	58007m	10.03	ng	
89) Benzo(a)pyrene	19.94	252	102403	18.41	ng	98
90) Dibenzo(a,h)anthracene	21.16	278	14098m	2.99	ng	
91) Benzo(a,h,i)perylene	21.50	276	47742	9.93	ng	99

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

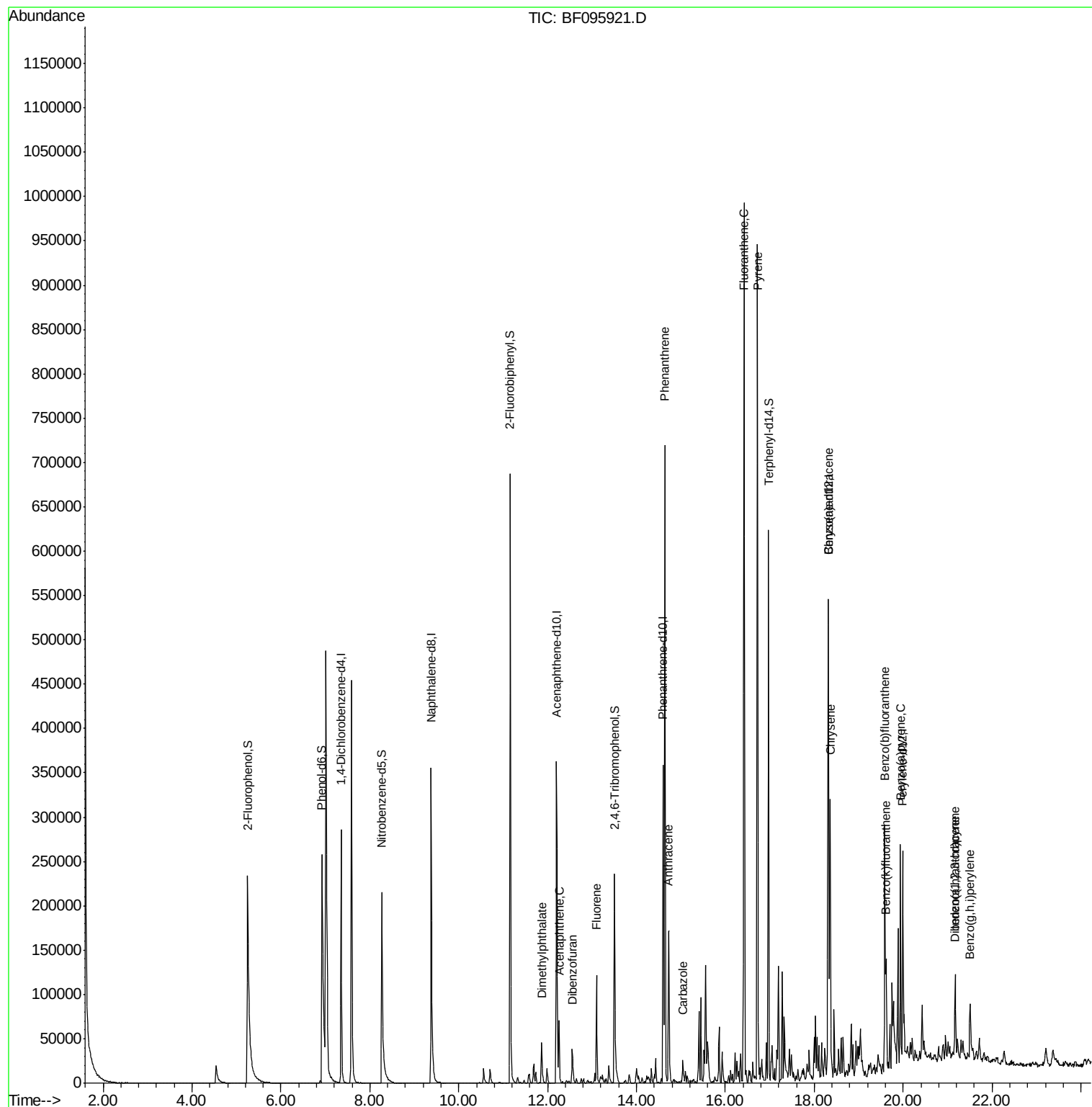
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061317\
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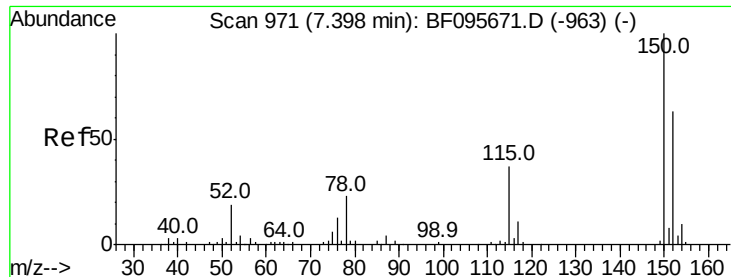
Instrument :
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Quant Time: Jun 14 12:04:31 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
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#1

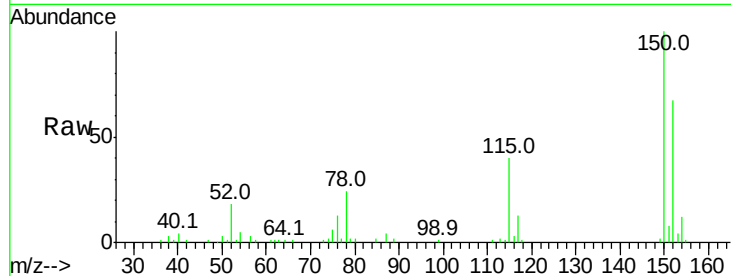
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.35 min Scan# 980
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

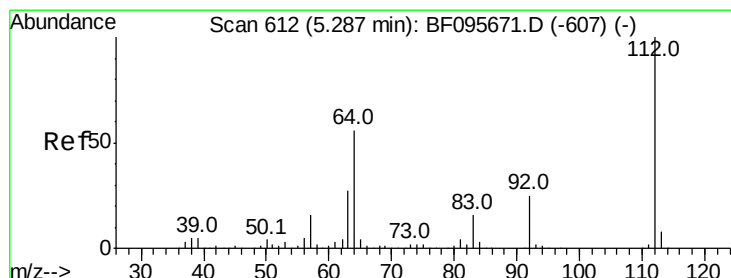
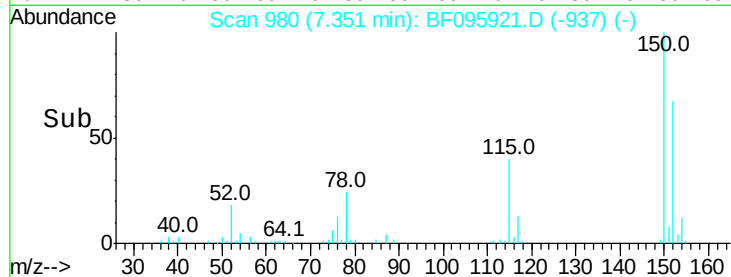
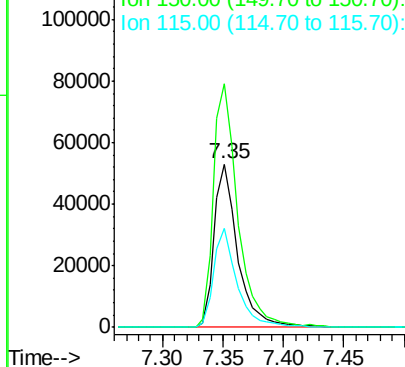
Tot Ion	Ratio	Lower	Upper
152	100		
150	149.4	126.2	189.2
115	60.3	52.2	78.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E

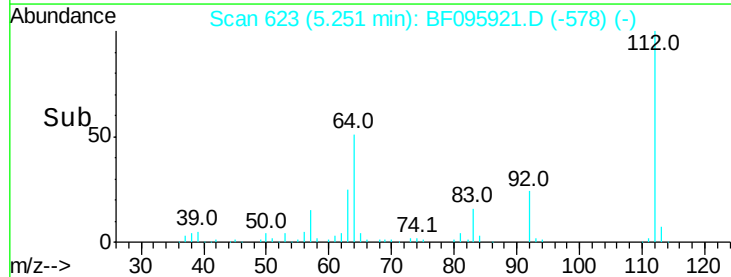
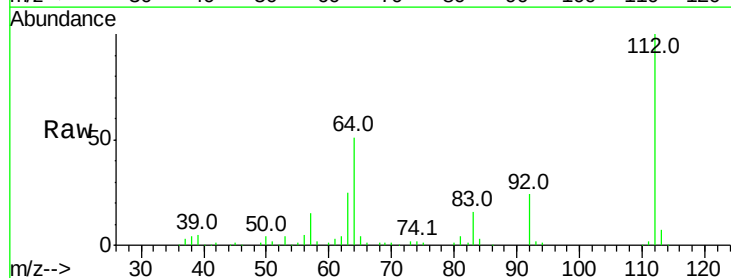
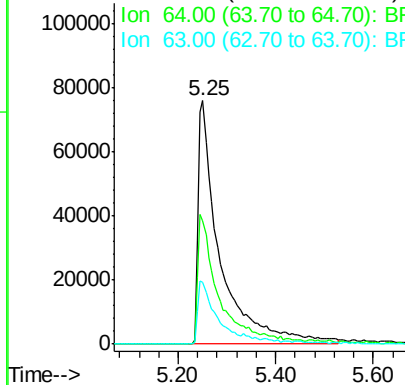


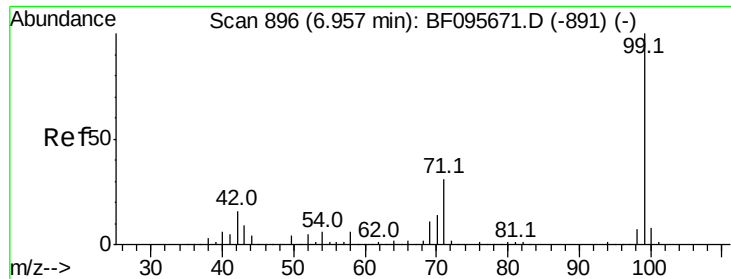
#5

2-Fluorophenol
Concen: 52.95 ng
RT: 5.25 min Scan# 623
Delta R.T. -0.03 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.6	46.0	69.0
63	25.3	23.4	35.0

Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 53.84 ng

RT: 6.92 min Scan# 907

Delta R.T. -0.04 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Instrument :

BNA_F

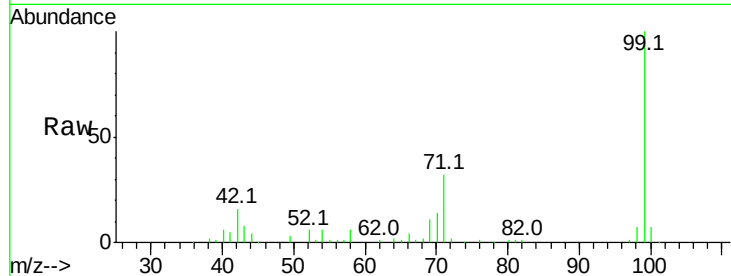
ClientSampleId :

CL-02-061217-DDL

Tot Ion:	99	Resp:	288130
Ion Ratio	Lower	Upper	
99	100		
42	15.8	13.5	20.3
71	31.6	24.5	36.7

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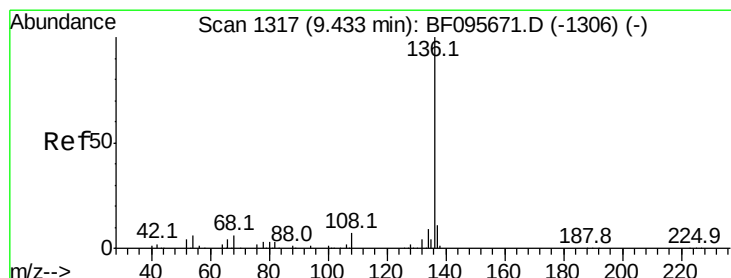
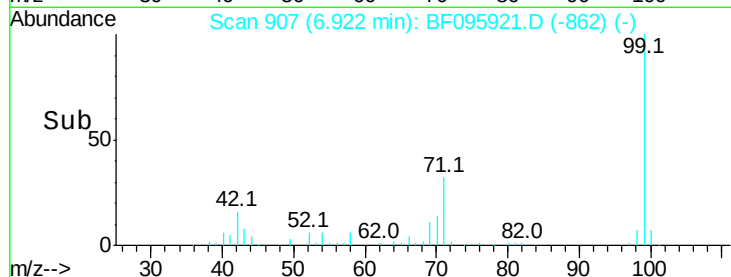
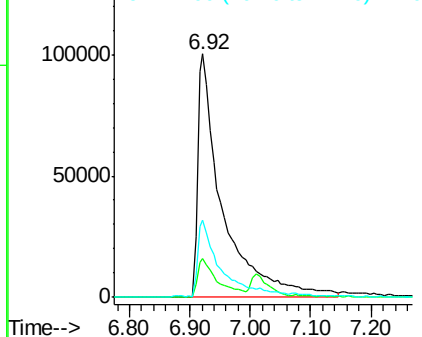
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.38 min Scan# 1325

Delta R.T. -0.05 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

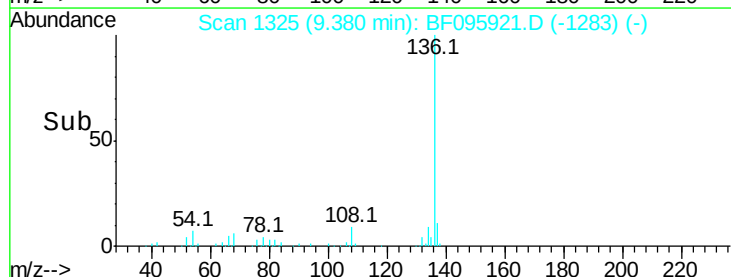
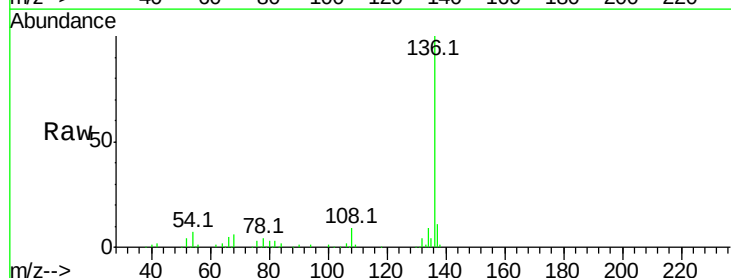
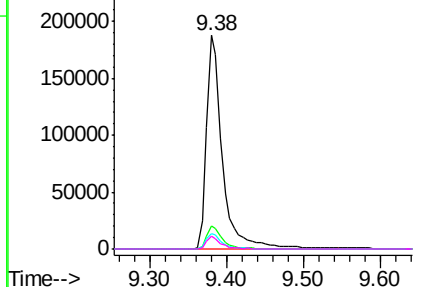
Tgt Ion:	136	Resp:	270396
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.5	12.7
54	7.0	4.9	7.3
68	5.8	4.1	6.1

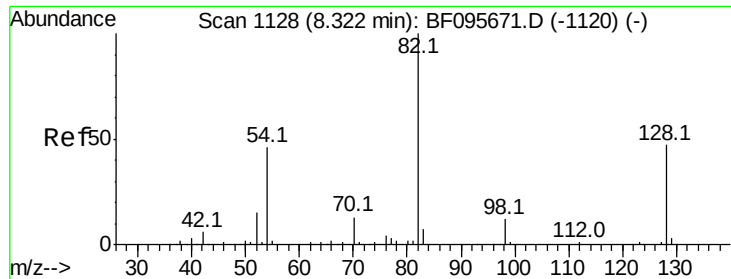
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





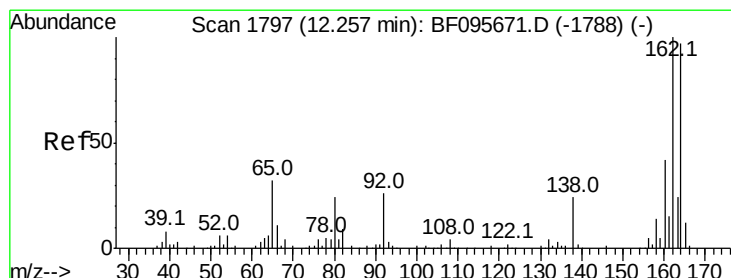
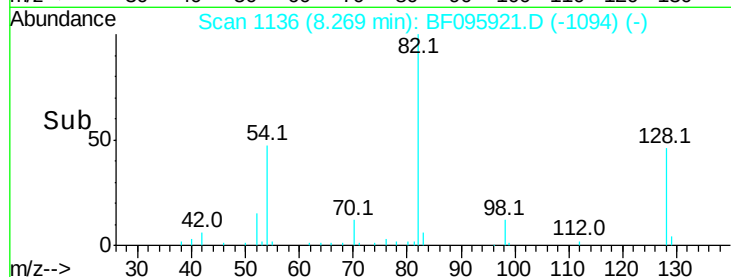
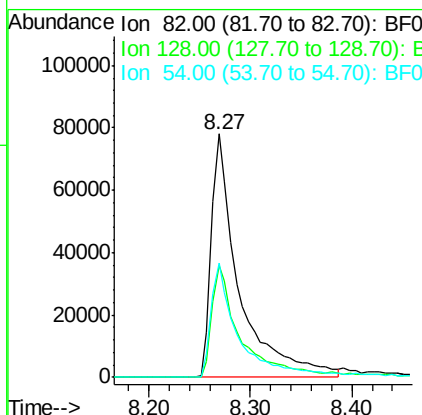
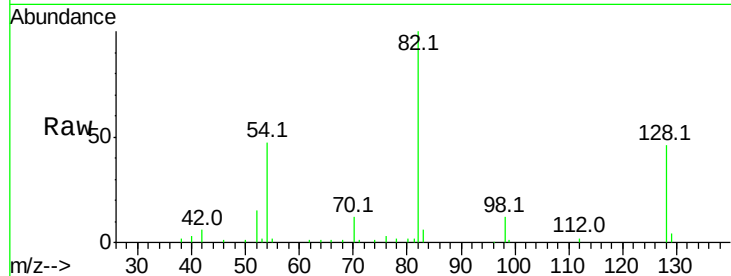
#23
 Nitrobenzene-d5
 Concen: 34.34 ng
 RT: 8.27 min Scan# 1136
 Delta R.T. -0.05 min
 Lab File: BF095921.D
 Acq: 14 Jun 2017 8:36

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-061217-DDL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.1	34.0	51.0	
54	46.7	42.2	63.2	

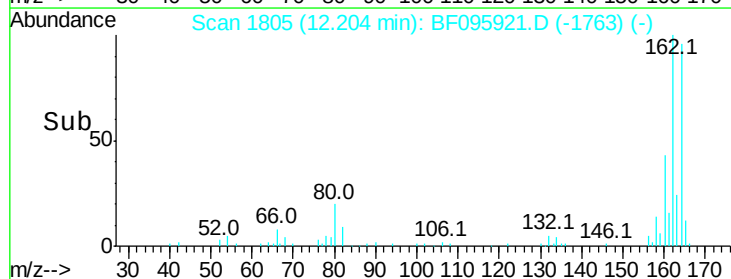
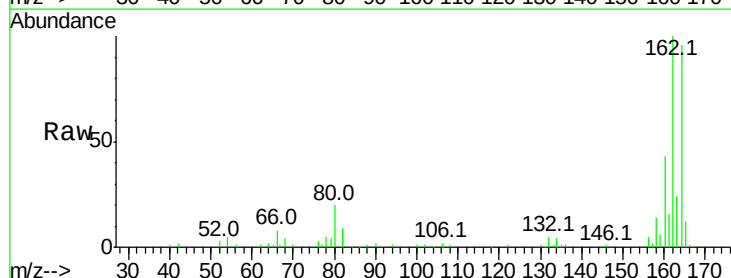
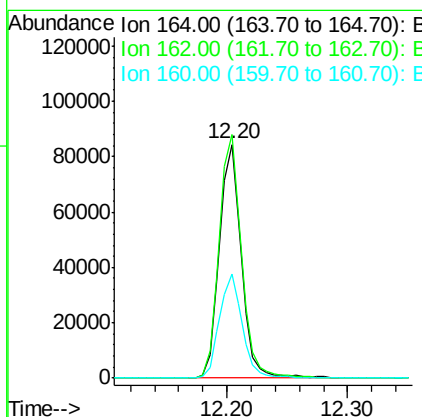
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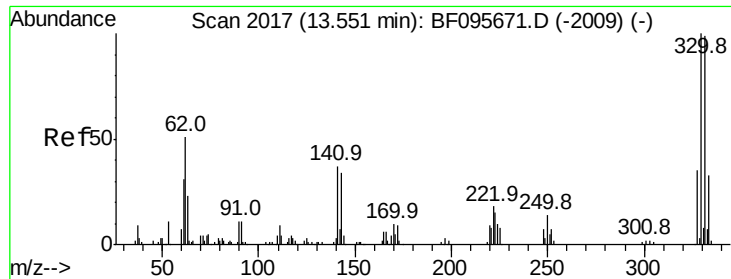
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.20 min Scan# 1805
 Delta R.T. -0.05 min
 Lab File: BF095921.D
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Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.2	82.6	123.8	
160	44.6	36.2	54.2	





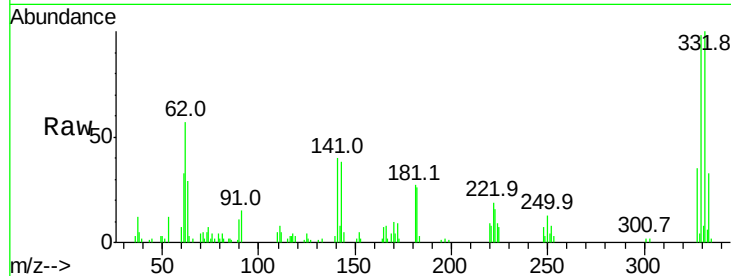
#41
2,4,6-Tribromophenol
Concen: 46.31 ng
RT: 13.50 min Scan# 2026
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampled :
CL-02-061217-DDL

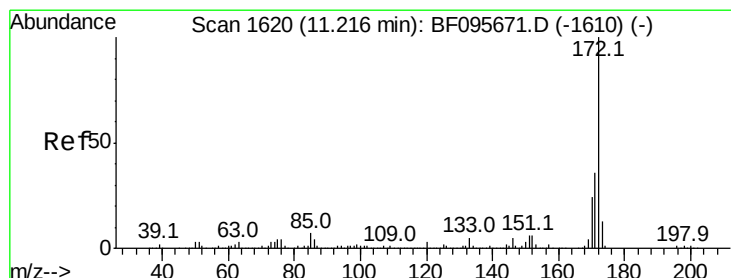
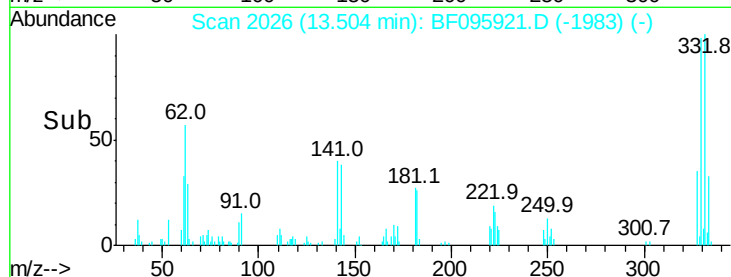
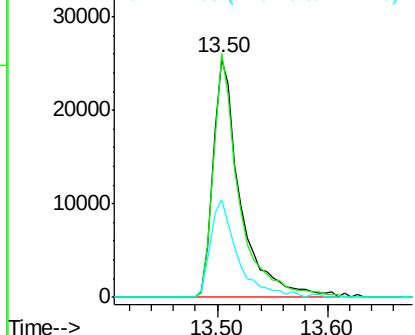
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.6		76.6	115.0
141	40.2		31.4	47.2

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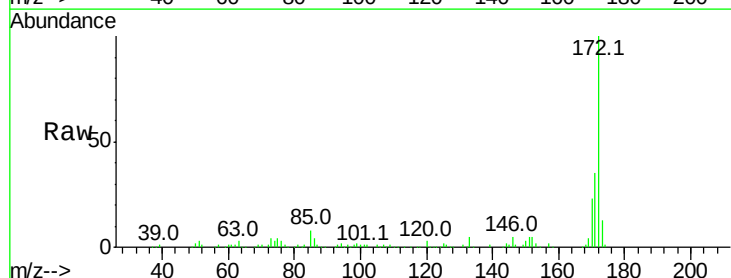


Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

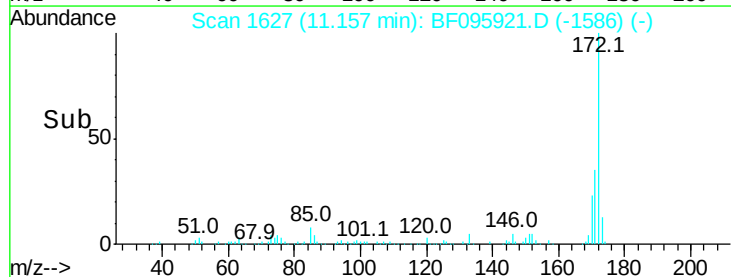
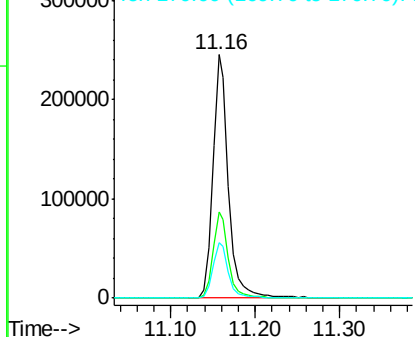


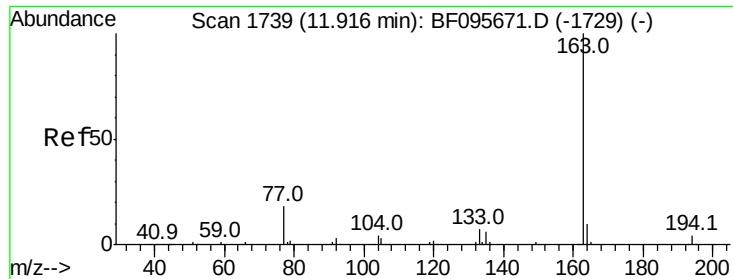
#44
2-Fluorobiphenyl
Concen: 42.16 ng
RT: 11.16 min Scan# 1627
Delta R.T. -0.06 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.3		29.6	44.4
170	22.8		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





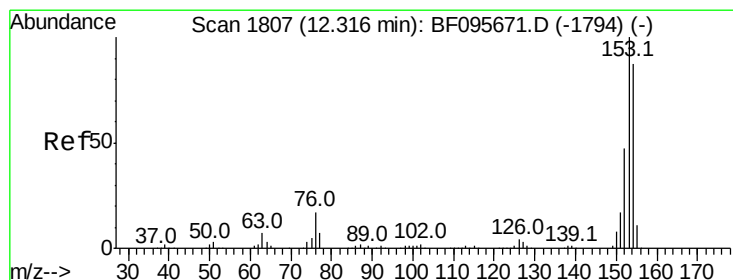
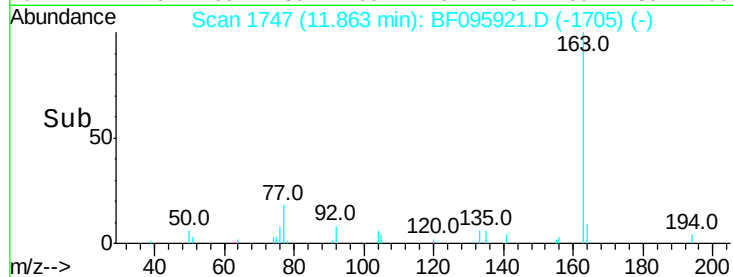
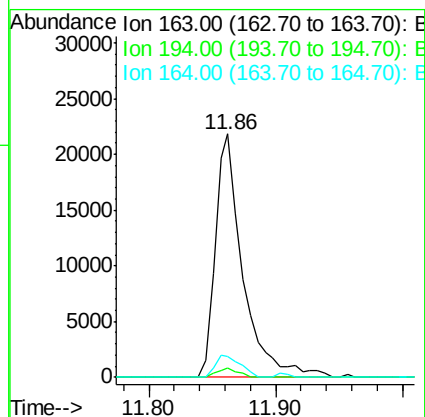
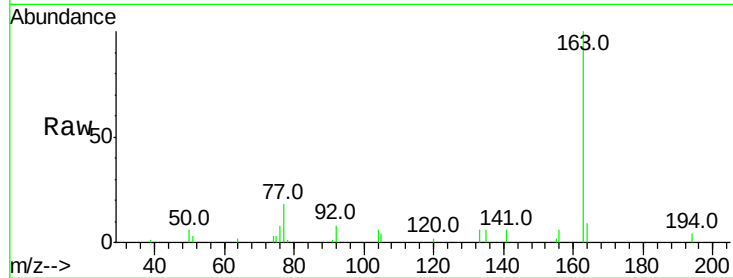
#49
Dimethylphthalate
Concen: 4.12 ng
RT: 11.86 min Scan# 1747
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.1	2.6	4.0	
164	8.8	8.4	12.6	

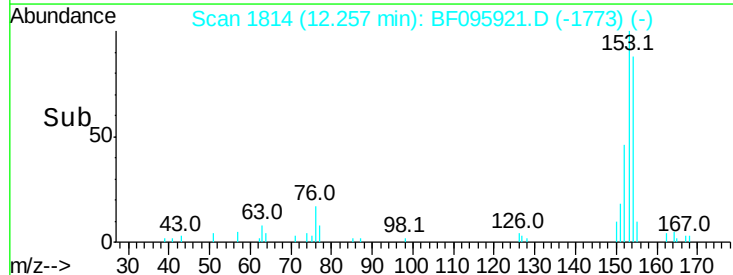
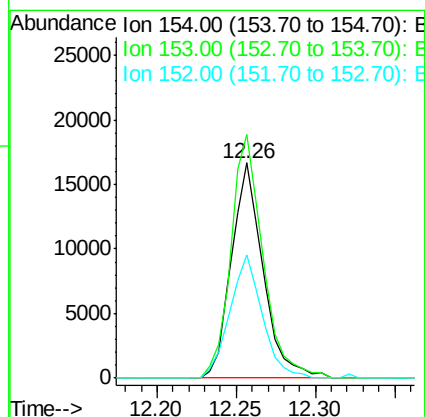
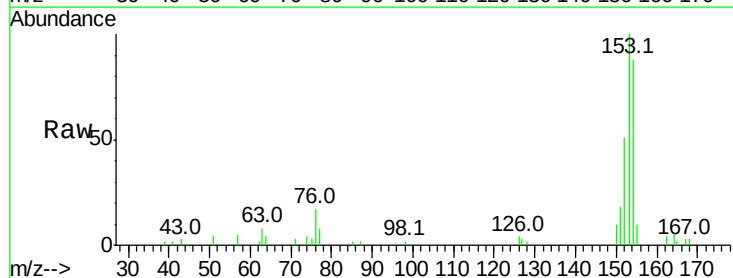
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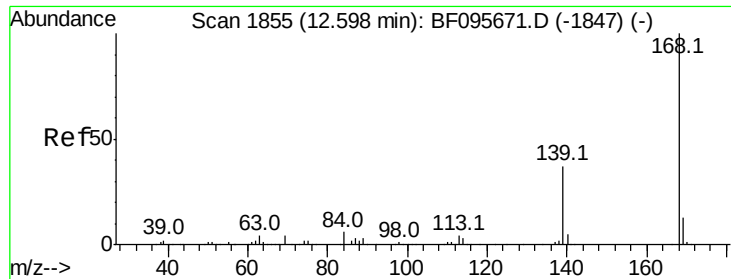
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#51
Acenaphthene
Concen: 3.43 ng
RT: 12.26 min Scan# 1814
Delta R.T. -0.06 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.3	90.5	135.7	
152	57.5	43.6	65.4	





#54

Dibenzenofuran

Concen: 3.11 ng

RT: 12.56 min Scan# 1865

Delta R.T. -0.04 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Instrument :

BNA_F

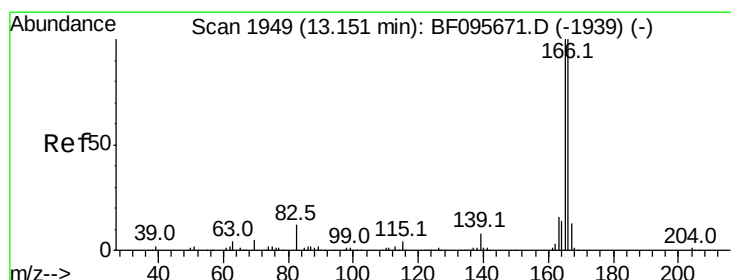
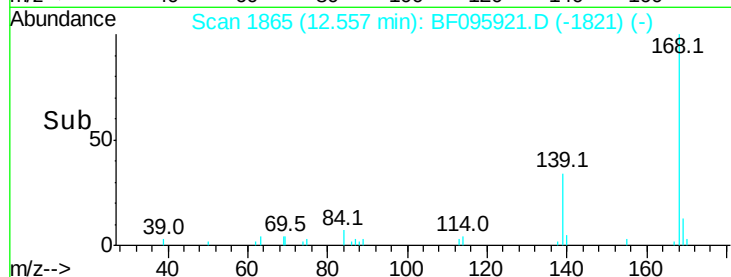
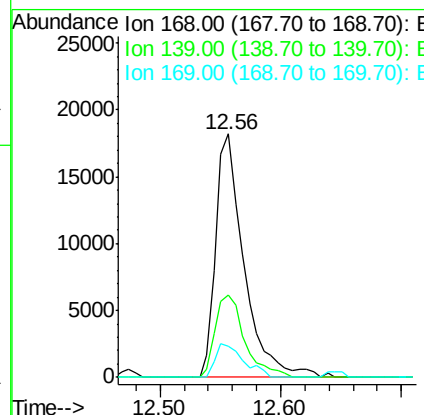
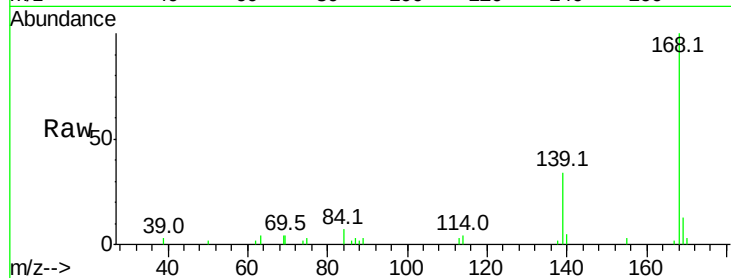
ClientSampleId :

CL-02-061217-DDL

Tot Ion:	168	Resp:	29453
Ion Ratio	Lower	Upper	
168	100		
139	34.1	30.6	45.8
169	12.6	10.8	16.2

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#57

Fluorene

Concen: 6.39 ng

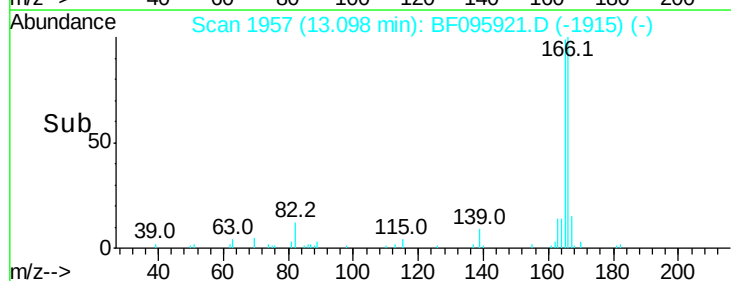
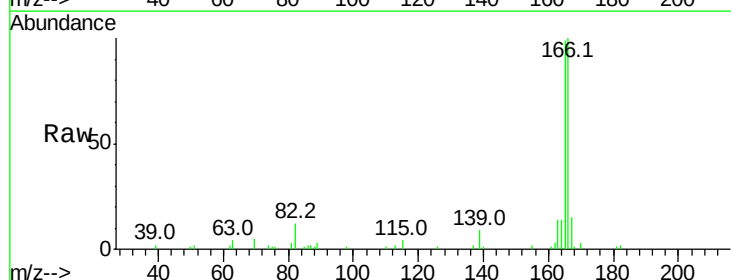
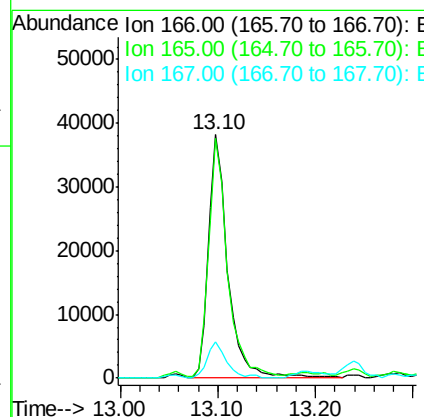
RT: 13.10 min Scan# 1957

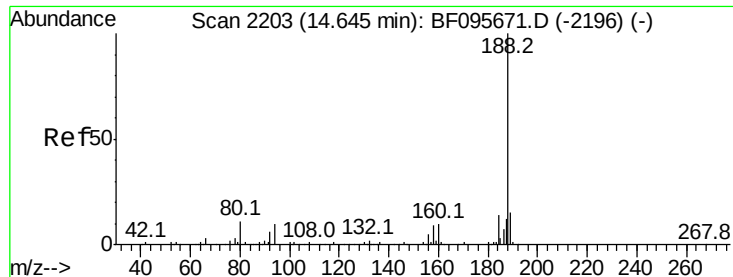
Delta R.T. -0.05 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Tgt Ion:	166	Resp:	52651
Ion Ratio	Lower	Upper	
166	100		
165	98.7	78.8	118.2
167	14.8	10.6	16.0





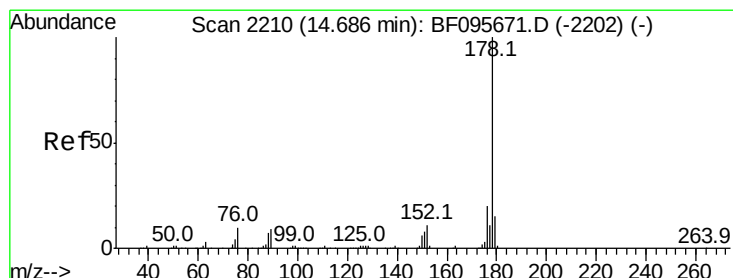
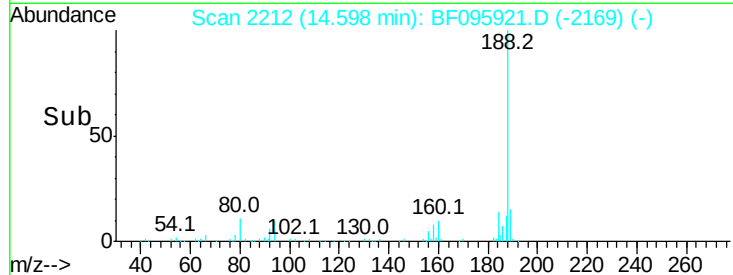
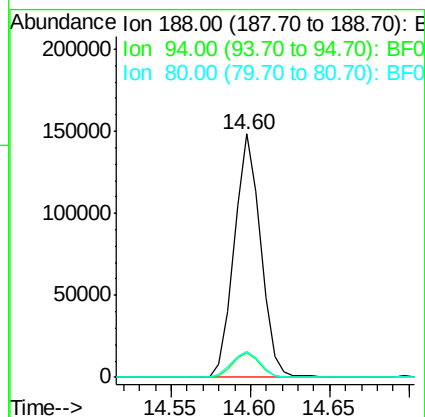
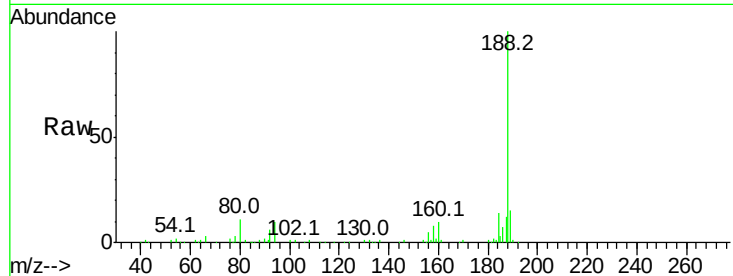
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.60 min Scan# 2212
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.1	9.4	14.2
80	10.8	10.2	15.2

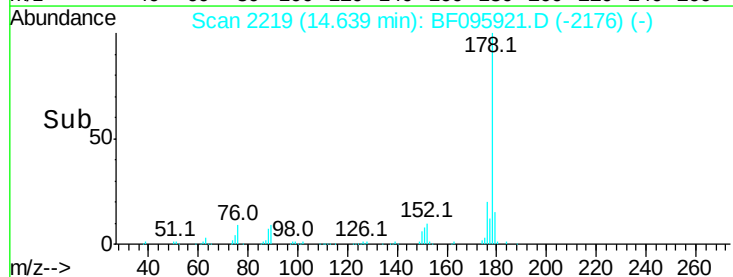
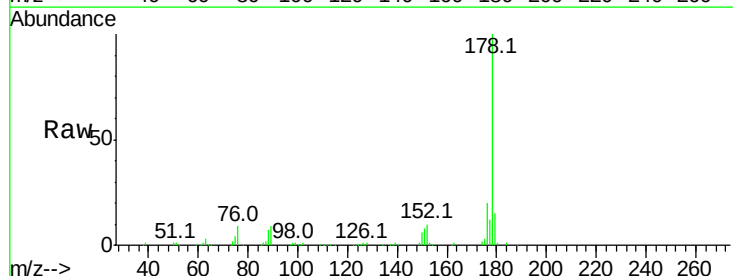
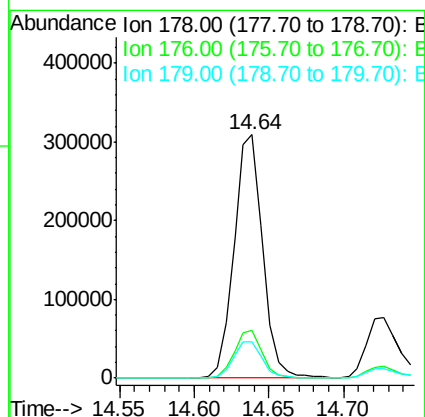
Manual Integrations
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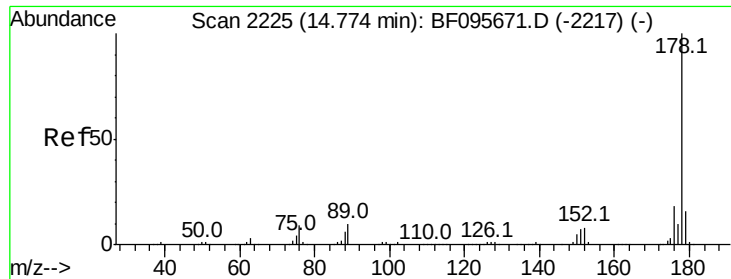
mohammad
6/14/2017 4:25:35 PM



#70
Phenanthrene
Concen: 42.13 ng
RT: 14.64 min Scan# 2219
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.8	16.2	24.4
179	15.0	12.6	19.0





#71

Anthracene

Concen: 11.53 ng

RT: 14.73 min Scan# 2234

Delta R.T. -0.05 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Instrument :

BNA_F

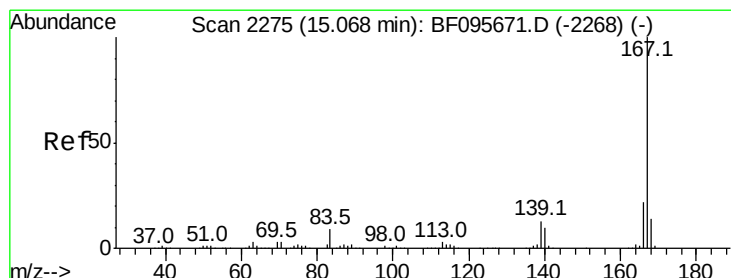
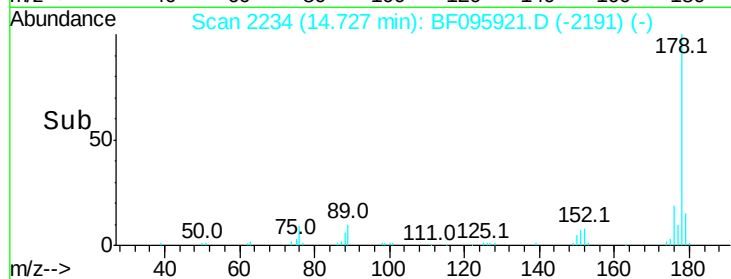
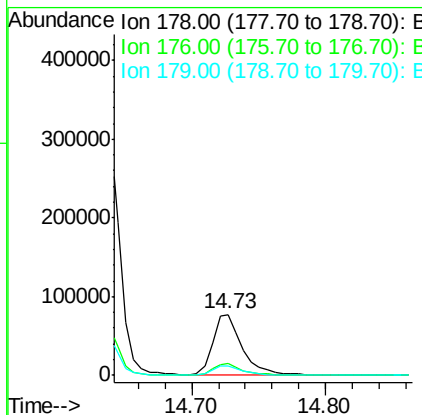
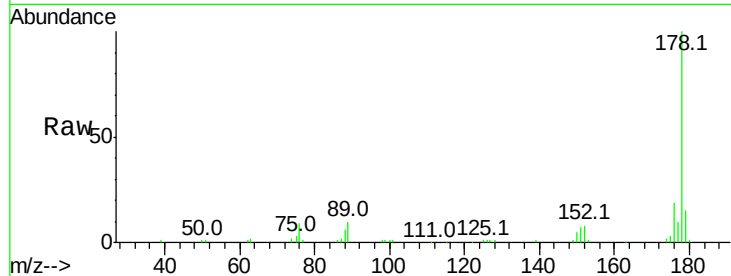
ClientSampleId :

CL-02-061217-DDL

Tot Ion:	178	Resp:	118482
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.8	23.8
179	15.4	12.7	19.1

Manual Integrations
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mohammad
6/14/2017 4:25:35 PM



#72

Carbazole

Concen: 2.13 ng

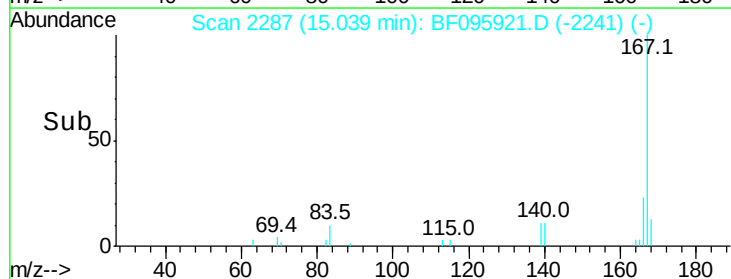
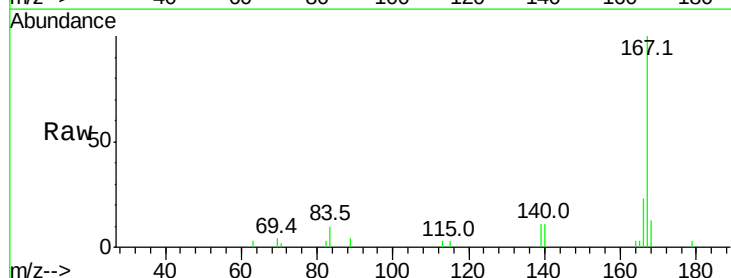
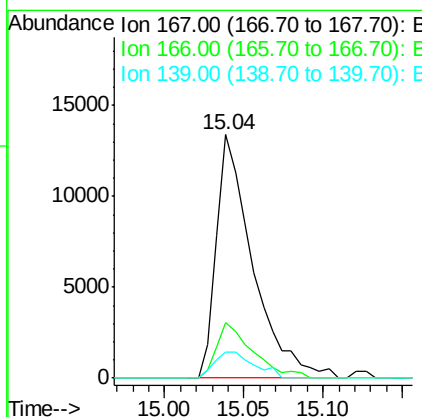
RT: 15.04 min Scan# 2287

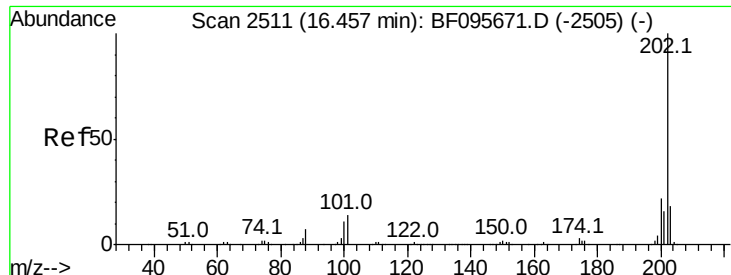
Delta R.T. -0.03 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Tgt Ion:	167	Resp:	21285
Ion Ratio	Lower	Upper	
167	100		
166	22.6	18.1	27.1
139	10.6	11.7	17.5#





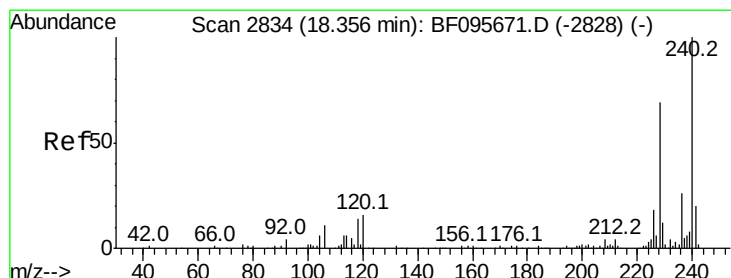
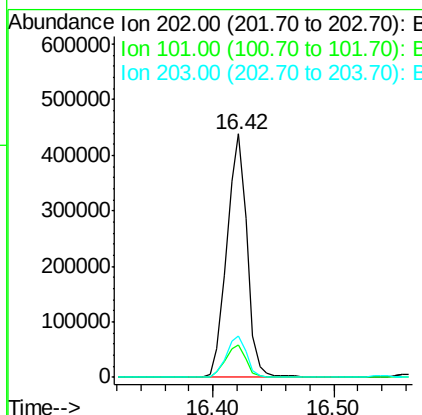
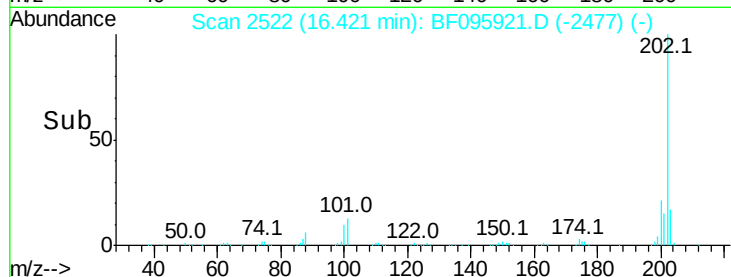
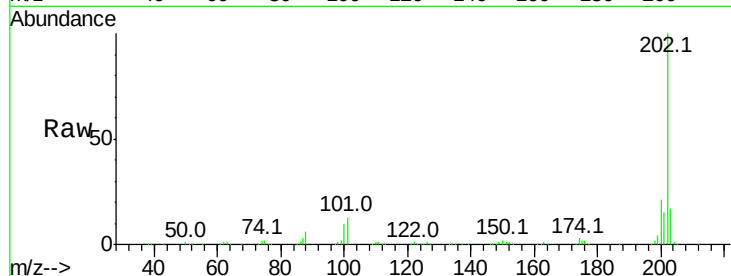
#74
Fluoranthene
Concen: 52.11 ng
RT: 16.42 min Scan# 2522
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	507715		
101	13.4	0.0	33.2	
203	17.1	0.0	38.1	

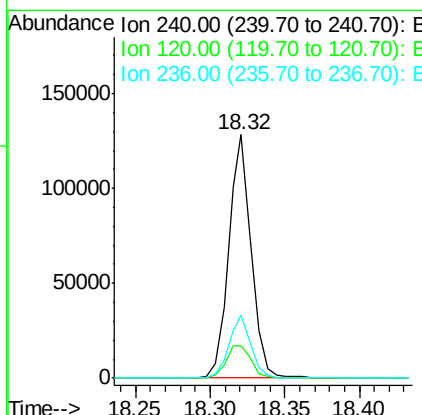
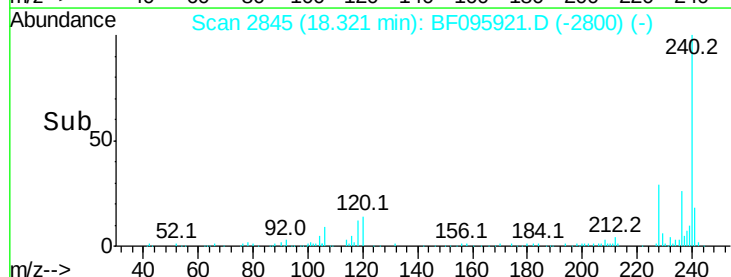
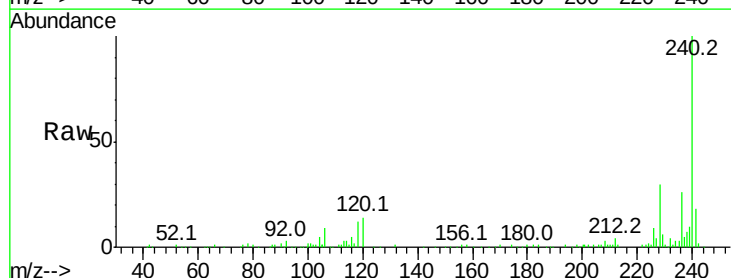
Manual Integrations
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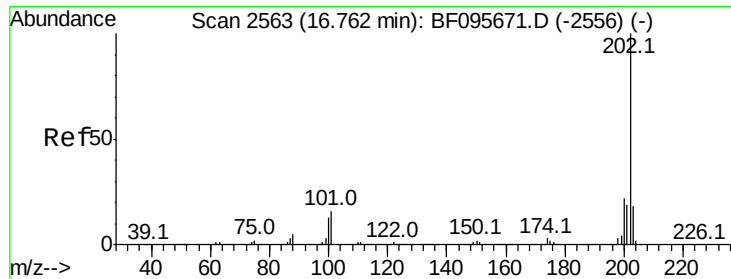
mohammad
6/14/2017 4:25:35 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.32 min Scan# 2845
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	135587		
120	13.6	5.8	8.8#	
236	25.9	20.5	30.7	





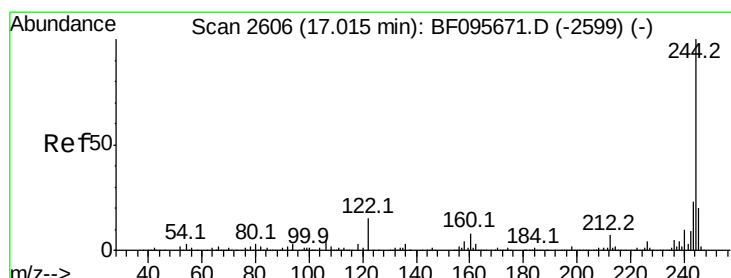
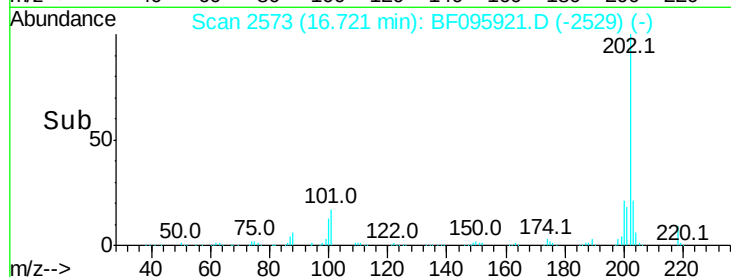
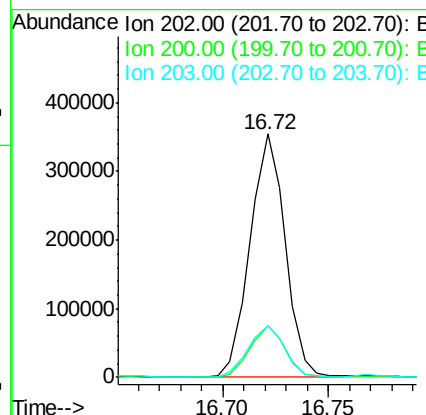
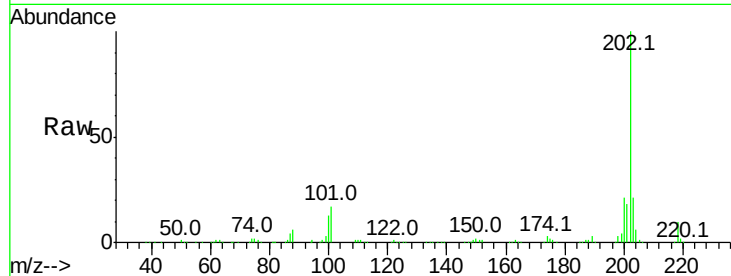
#77
Pvrene
Concen: 40.58 ng
RT: 16.72 min Scan# 2573
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.1	17.6	26.4
203	21.3	14.4	21.6

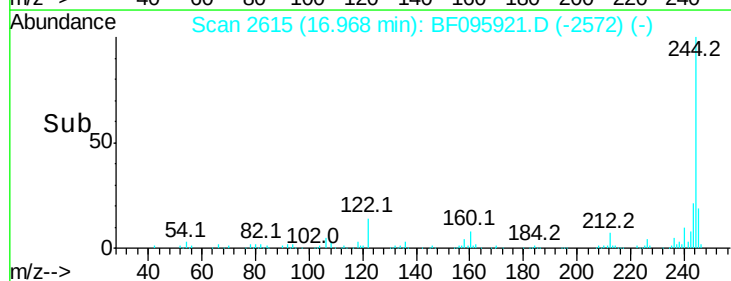
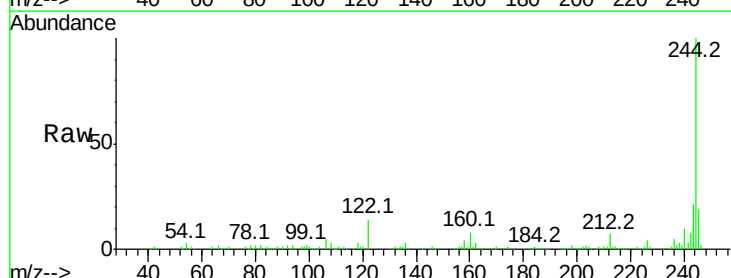
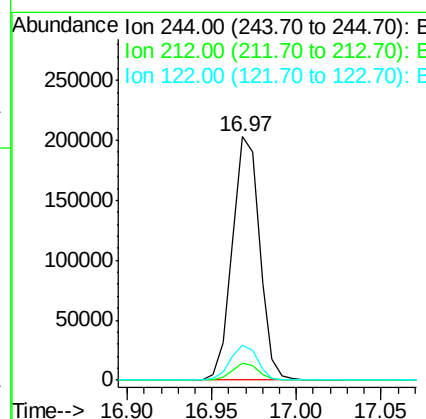
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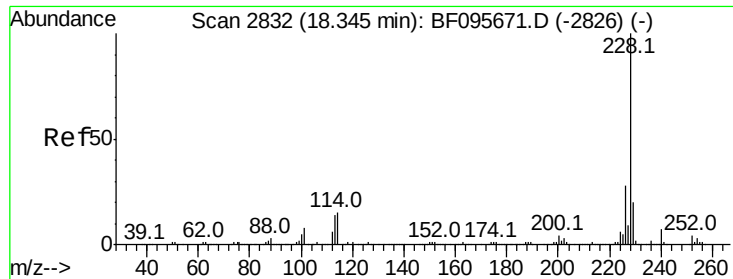
mohammad
6/14/2017 4:25:35 PM



#78
Terphenyl-d14
Concen: 41.74 ng
RT: 16.97 min Scan# 2615
Delta R.T. -0.05 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.8	6.0	9.0
122	14.4	10.3	15.5





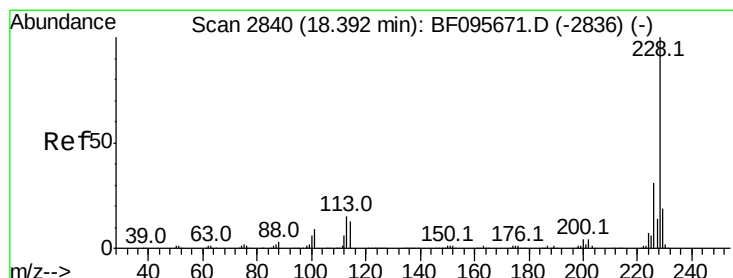
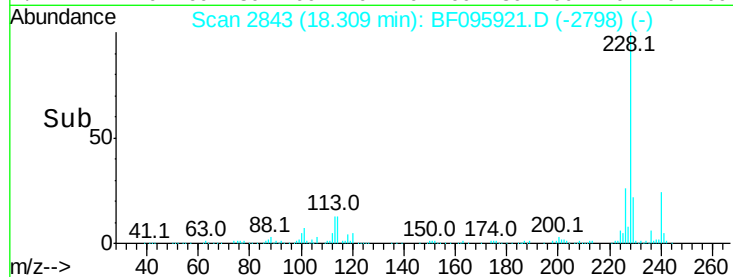
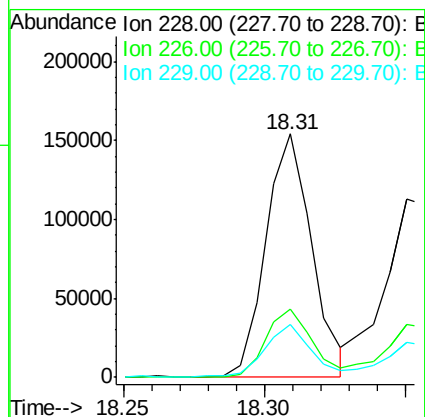
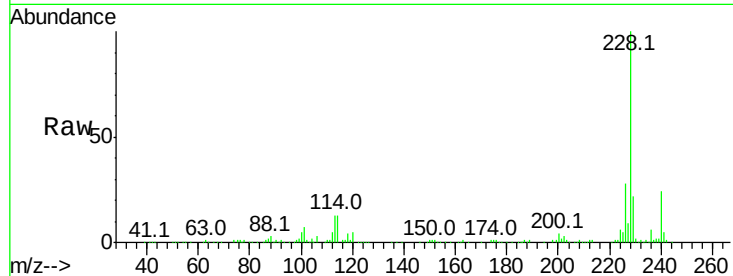
#80
Benzo(a)anthracene
Concen: 22.15 ng
RT: 18.31 min Scan# 2843
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	21.7	16.3	24.5

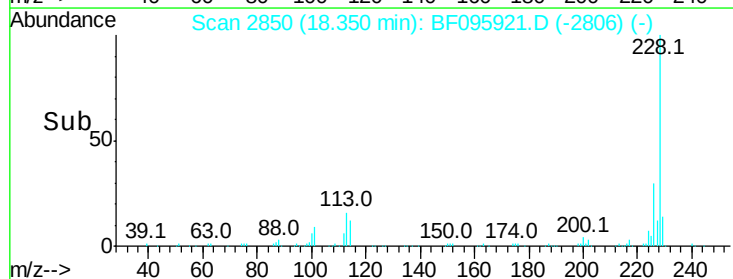
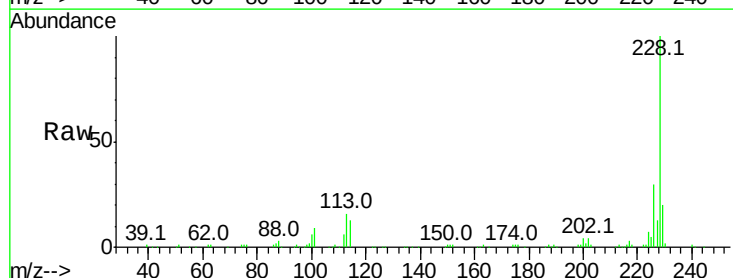
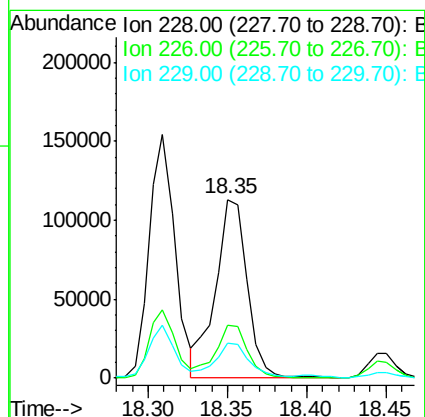
Manual Integrations
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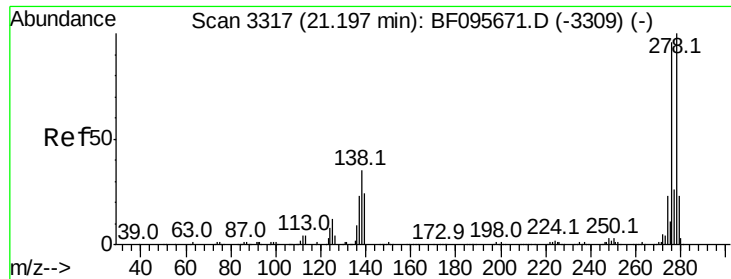
mohammad
6/14/2017 4:25:35 PM



#82
Chrysene
Concen: 20.01 ng
RT: 18.35 min Scan# 2850
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.9	37.3
229	19.8	15.8	23.6





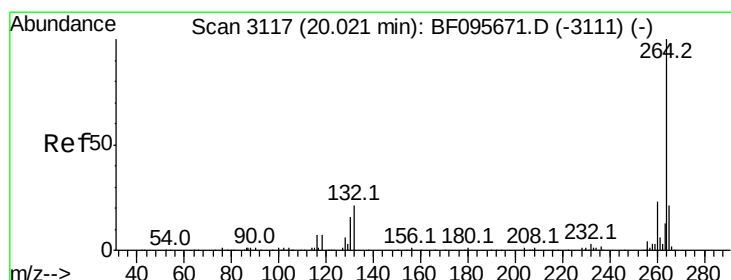
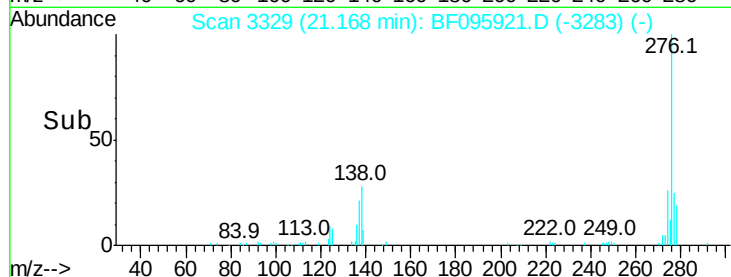
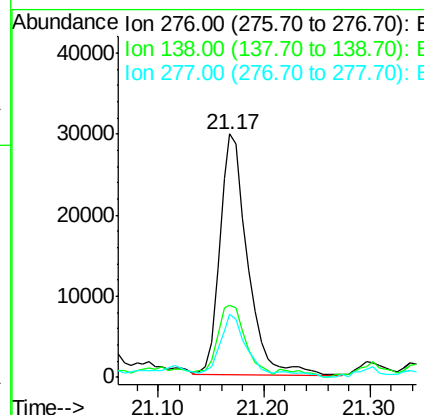
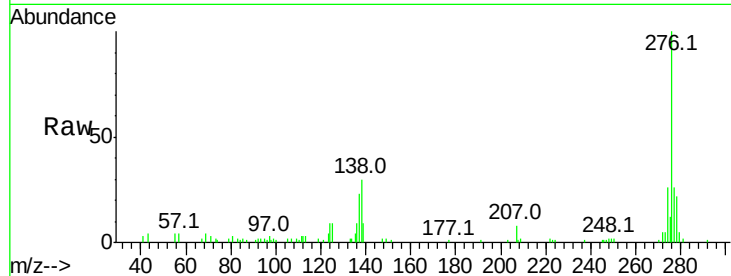
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.09 ng
RT: 21.17 min Scan# 3329
Delta R.T. -0.03 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.4	27.8	41.6
277	21.5	20.2	30.4

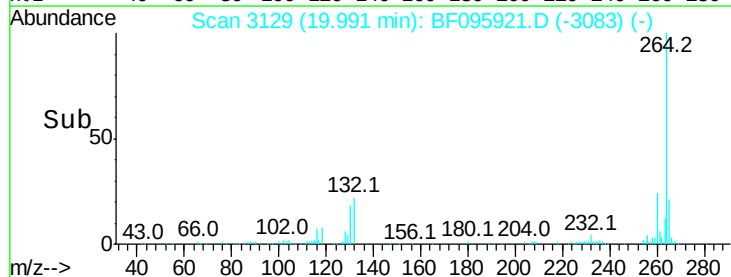
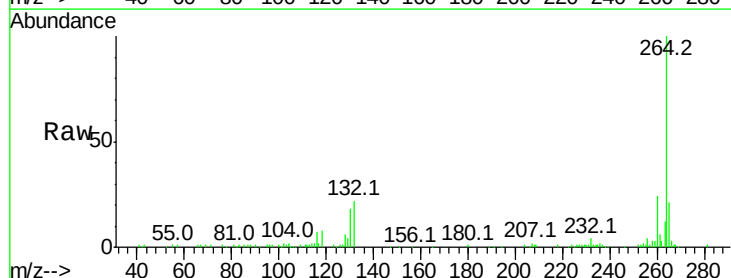
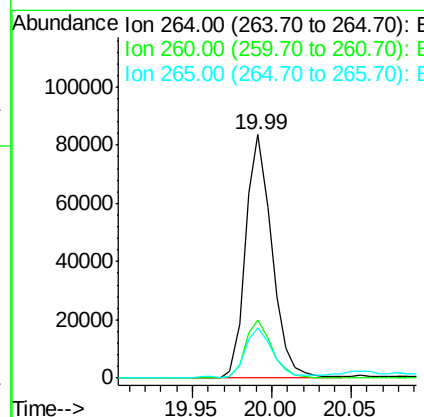
Manual Integrations
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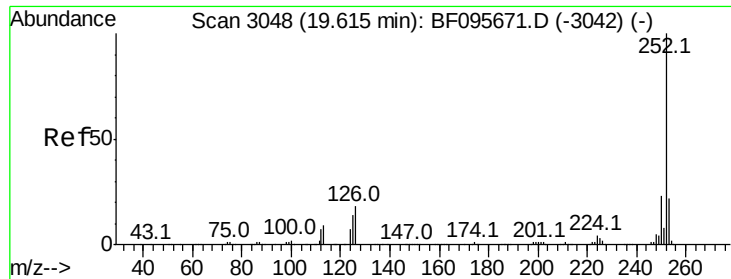
mohammad
6/14/2017 4:25:35 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 19.99 min Scan# 3129
Delta R.T. -0.03 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	20.7	17.2	25.8





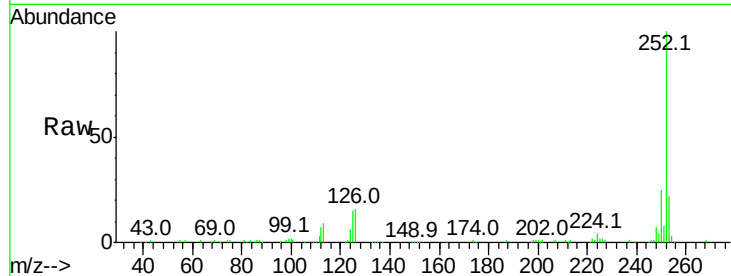
#87
Benzo(b)fluoranthene
Concen: 23.73 ng m
RT: 19.59 min Scan# 3061
Delta R.T. -0.02 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	14.9	9.8	14.8

Manual Integrations
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6/14/2017 4:25:35 PM

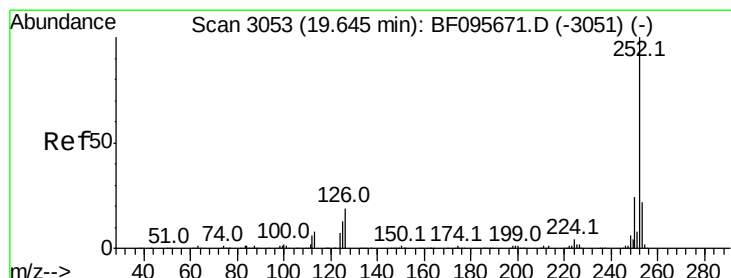
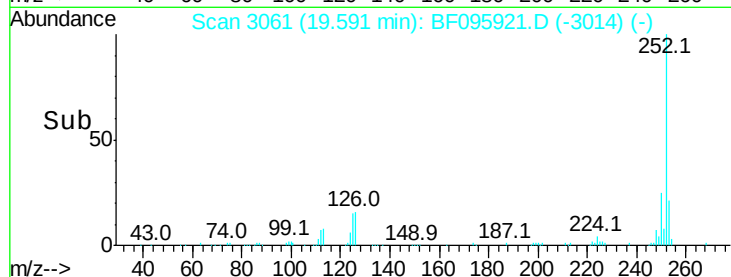
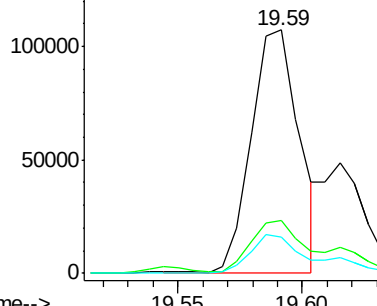


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88
Benzo(k)fluoranthene
Concen: 10.03 ng m
RT: 19.61 min Scan# 3065
Delta R.T. -0.03 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

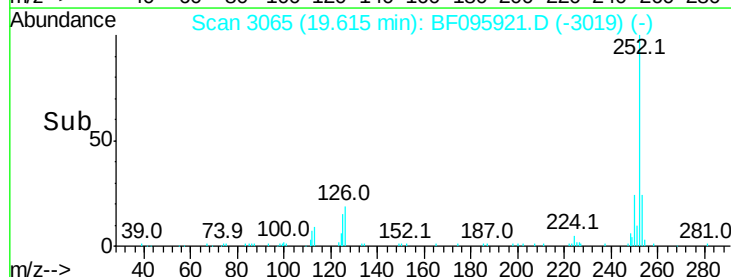
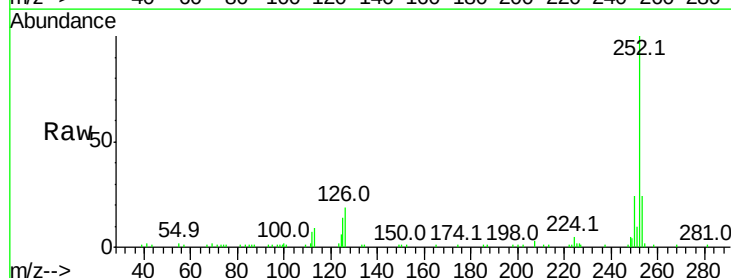
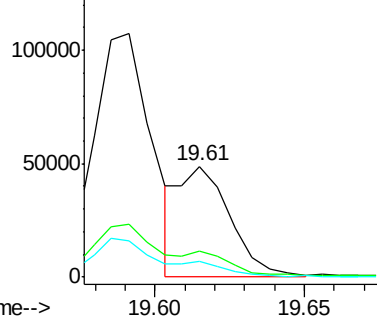
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	14.4	13.1	19.7

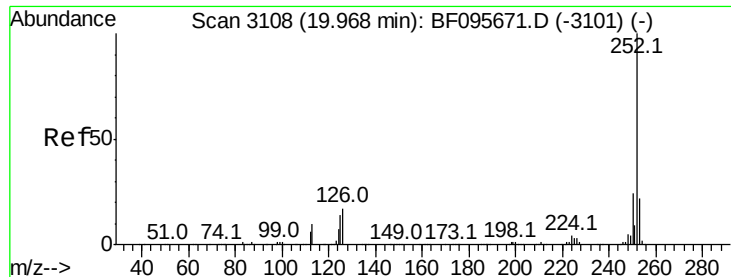
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





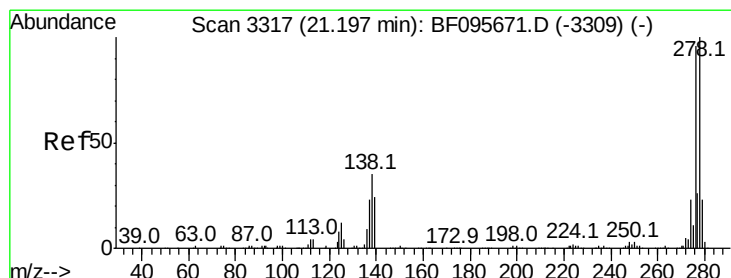
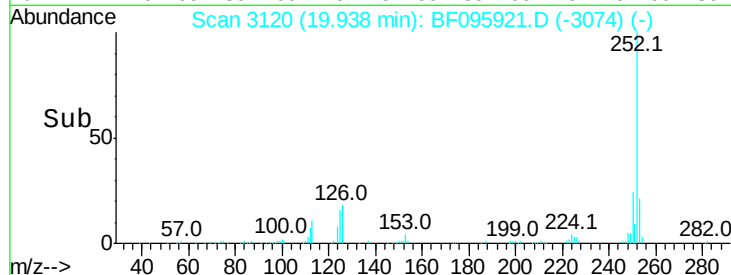
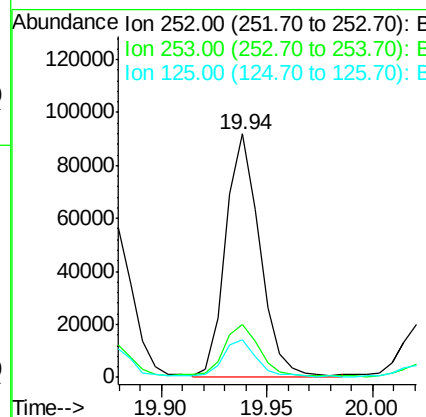
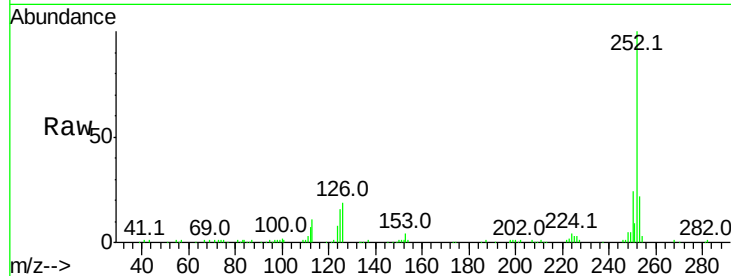
#89
Benzo(a)pyrene
Concen: 18.41 ng
RT: 19.94 min Scan# 3120
Delta R.T. -0.03 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Instrument :
BNA_F
ClientSampleId :
CL-02-061217-DDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	15.6	11.0	16.4

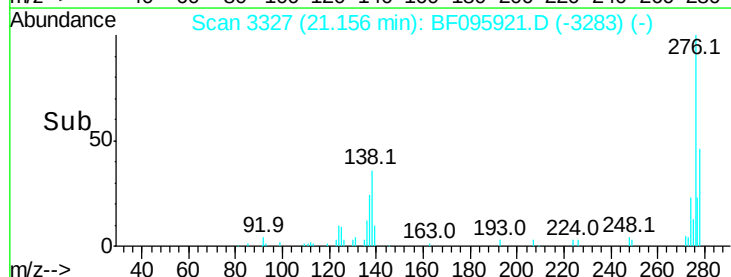
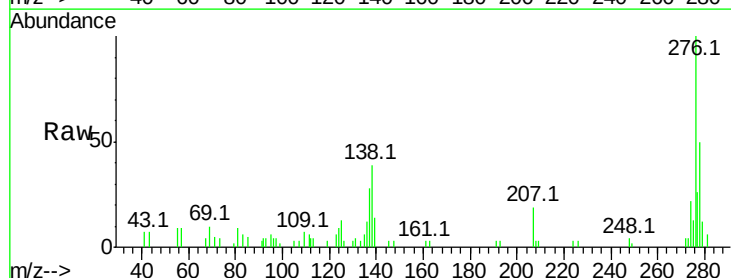
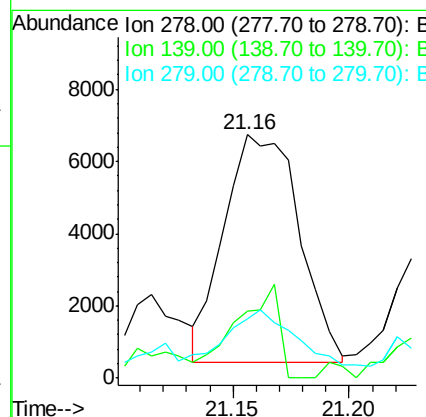
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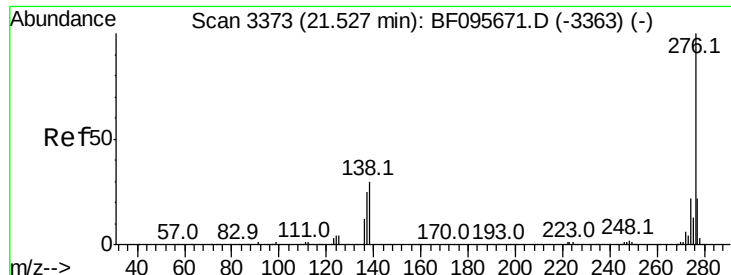
mohammad
6/14/2017 4:25:35 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.99 ng m
RT: 21.16 min Scan# 3327
Delta R.T. -0.04 min
Lab File: BF095921.D
Acq: 14 Jun 2017 8:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.5	16.6	24.8#
279	24.1	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 9.93 ng

RT: 21.50 min Scan# 3386

Delta R.T. -0.02 min

Lab File: BF095921.D

Acq: 14 Jun 2017 8:36

Instrument :

BNA_F

ClientSampleId :

CL-02-061217-DDL

Tot Ion:	276	Resp:	47742
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.6	28.0
138	31.9	25.4	38.0

Manual Integrations
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mohammad
6/14/2017 4:25:35 PM

