

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071217\
 Data File : BF096699.D
 Acq On : 12 Jul 2017 18:43
 Operator : SJ/JU
 Sample : I4144-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP1-0-3

Manual Integrations
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Quant Time: Jul 13 07:53:33 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	6.67	152	123228	20.00	ng	-0.03
21) Naphthalene-d8	7.95	136	477215	20.00	ng	-0.04
38) Acenaphthene-d10	9.70	164	193504	20.00	ng	-0.04
63) Phenanthrene-d10	11.18	188	319186	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	197050	20.00	ng	-0.04
86) Perylene-d12	15.20	264	172283	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	745078	89.24	ng	-0.03
7) Phenol-d6	6.31	99	899342	87.62	ng	-0.04
23) Nitrobenzene-d5	7.23	82	565777	71.24	ng	-0.04
41) 2,4,6-Tribromophenol	10.49	330	145121	96.01	ng	-0.04
44) 2-Fluorobiphenyl	9.03	172	869937	76.87	ng	-0.04
78) Terphenyl-d14	12.76	244	517124	56.08	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	7.97	128	67706	3.005	ng	99
37) 2-Methylnaphthalene	8.66	142	53970	3.763	ng	95
48) Acenaphthylene	9.56	152	46333	2.367	ng	95
49) Dimethylphthalate	9.42	163	291530	20.182	ng	100
51) Acenaphthene	9.73	154	31767	2.632	ng	97
54) Dibenzofuran	9.90	168	38997	2.447	ng	# 94
57) Fluorene	10.24	166	29663	2.636	ng	# 95
70) Phenanthrene	11.20	178	417666	24.206	ng	99
71) Anthracene	11.25	178	115822	6.587	ng	97
72) Carbazole	11.40	167	46408	2.624	ng	99
74) Fluoranthene	12.39	202	445225	26.318	ng	98
77) Pyrene	12.62	202	371937	23.516	ng	99
80) Benzo(a)anthracene	13.80	228	193524	16.960	ng	94
82) Chrysene	13.83	228	187654	15.704	ng	96
85) Indeno(1,2,3-cd)pyrene	16.53	276	85707	9.087	ng	94
87) Benzo(b)fluoranthene	14.82	252	243156m	22.524	ng	
88) Benzo(k)fluoranthene	14.84	252	89923m	9.312	ng	
89) Benzo(a)pyrene	15.14	252	132602	13.758	ng	99
90) Dibenzo(a,h)anthracene	16.53	278	23458m	3.094	ng	
91) Benzo(g,h,i)perylene	16.93	276	74852	9.527	ng	97

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

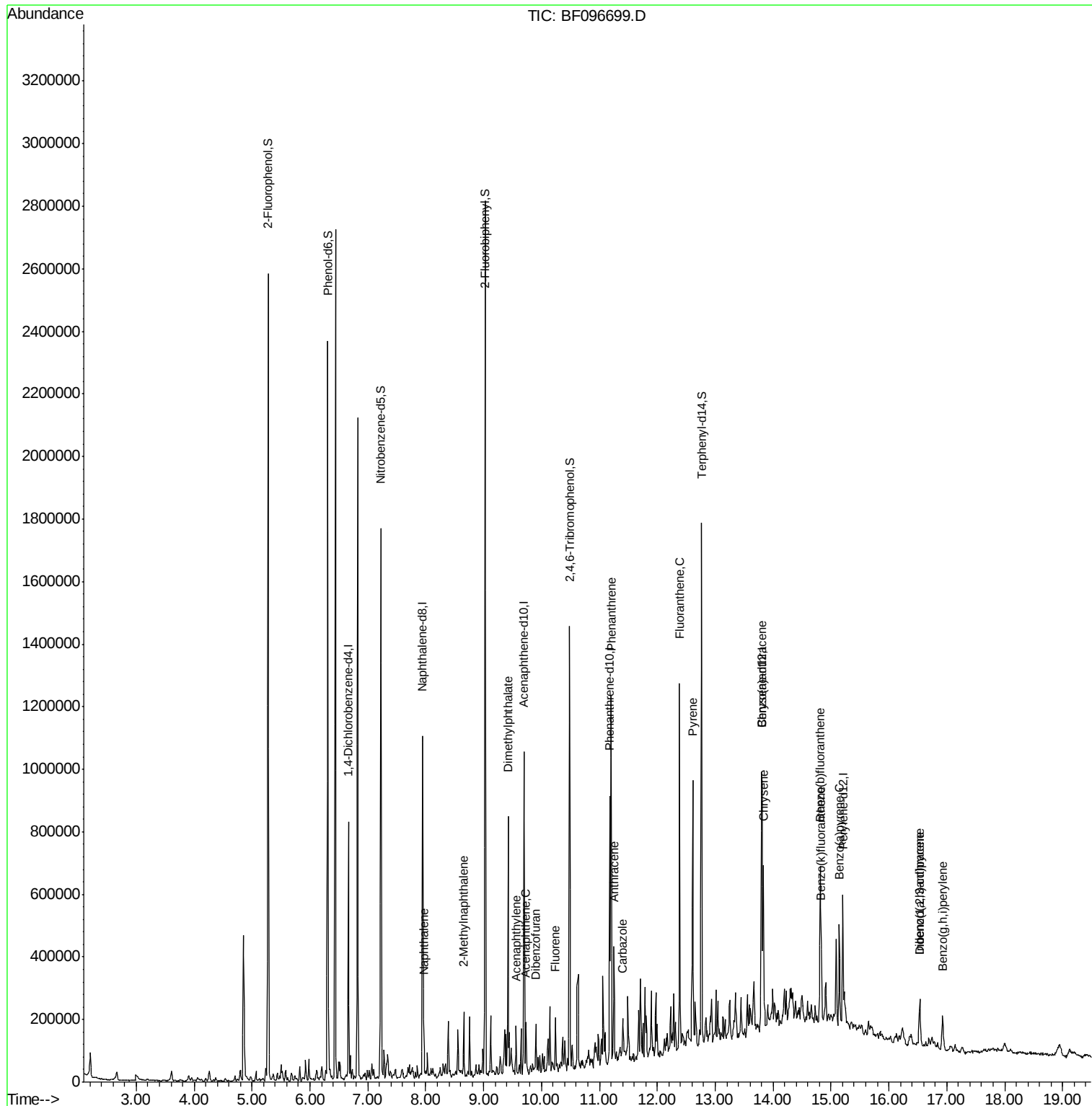
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071217\
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ALS Vial : 14 Sample Multiplier: 1

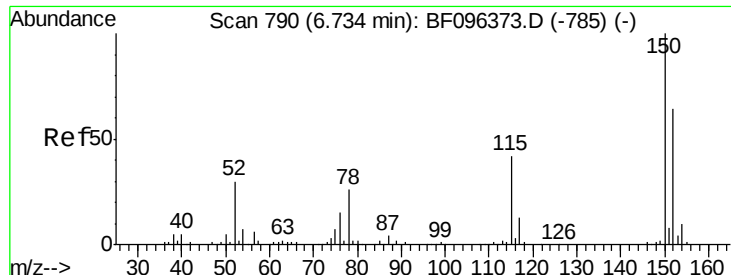
Instrument :
BNA_F
ClientSampleId :
TP1-0-3

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Quant Time: Jul 13 07:53:33 2017
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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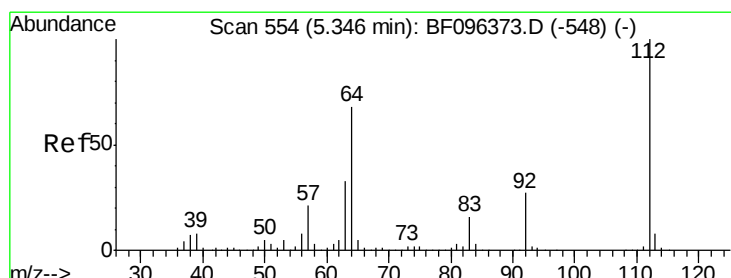
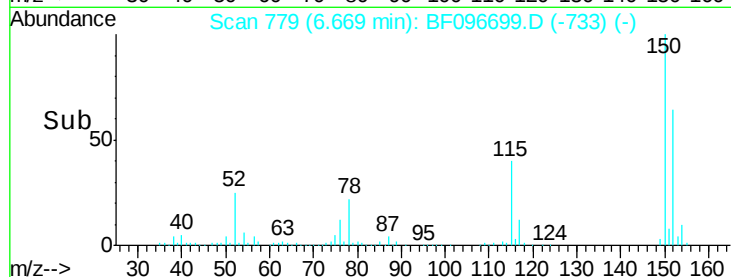
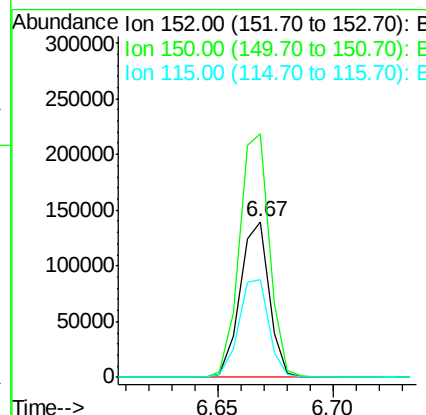
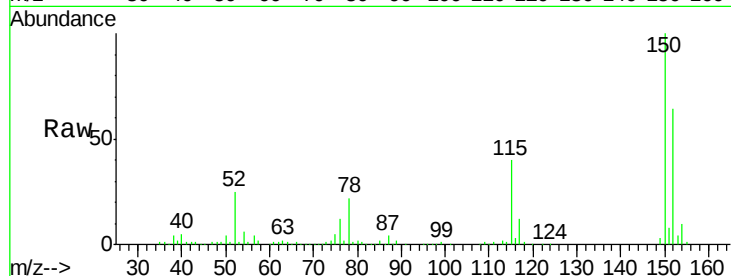
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.67 min Scan# 779
 Delta R.T. -0.03 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampled :
 TP1-0-3

Tgt	Ion	Ratio	Resp	Lower	Upper
152	100		123228		
150	156.1	126.2	189.2		
115	62.9	52.2	78.2		

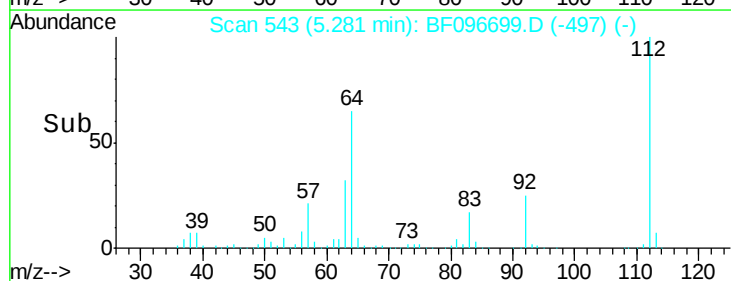
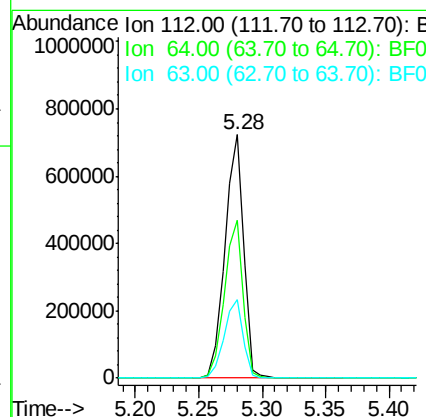
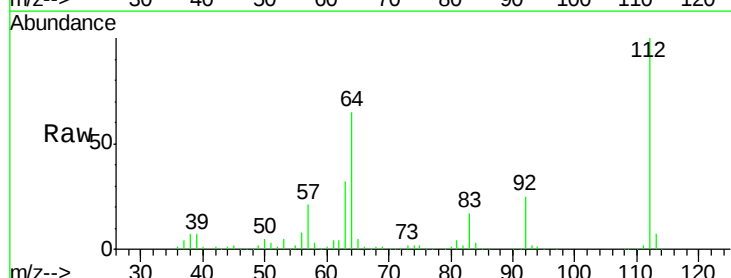
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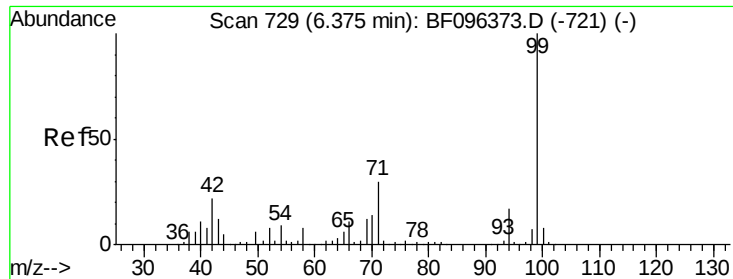
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#5
 2-Fluorophenol
 Concen: 89.242 ng
 RT: 5.28 min Scan# 543
 Delta R.T. -0.03 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		745078		
64	64.9	46.0	69.0		
63	32.5	23.4	35.0		





#7

Phenol-d6

Concen: 87.622 ng

RT: 6.31 min Scan# 718

Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Instrument :

BNA_F

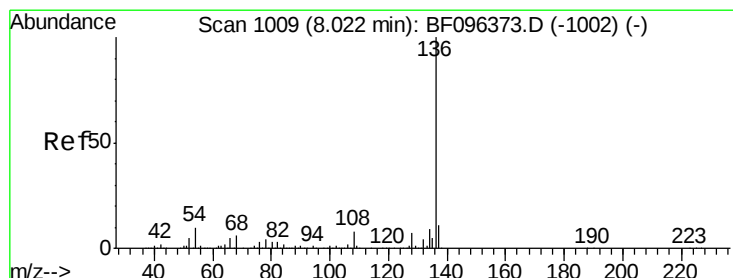
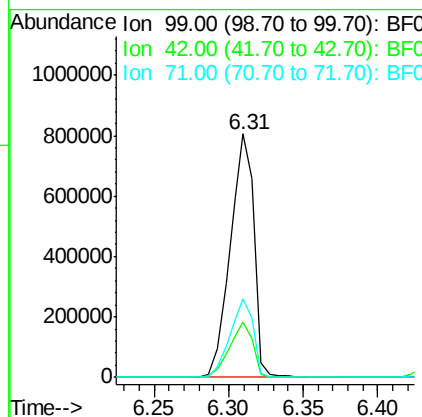
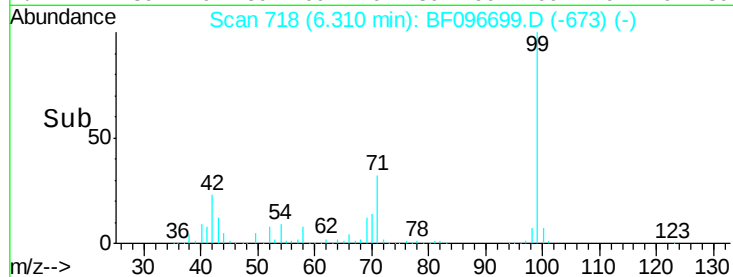
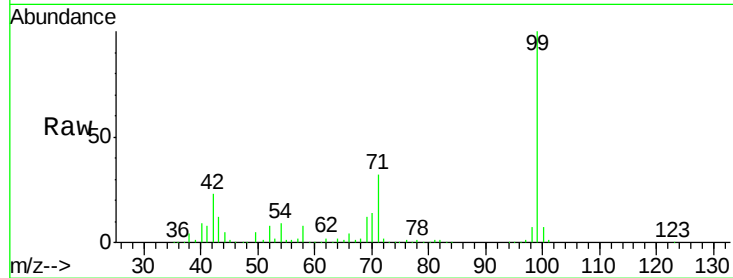
ClientSampled :

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Tgt Ion:	99	Resp:	899342
Ion Ratio	Lower	Upper	
99	100		
42	22.6	13.5	20.3#
71	32.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

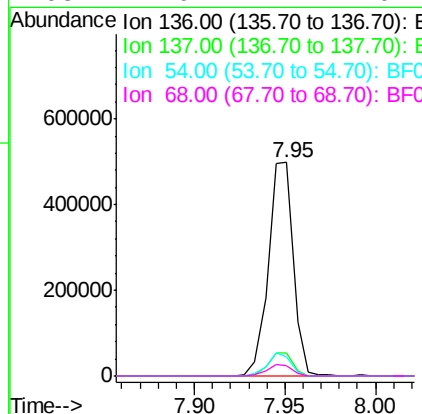
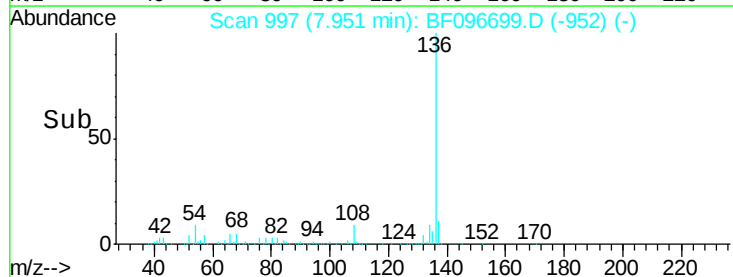
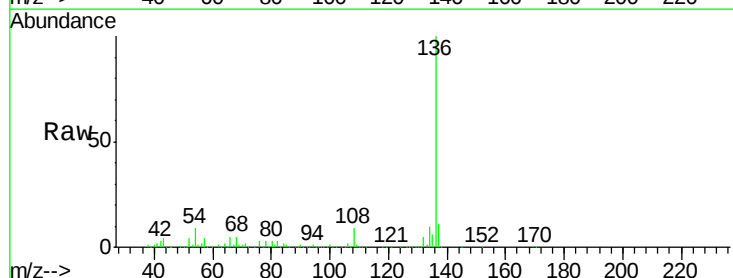
RT: 7.95 min Scan# 997

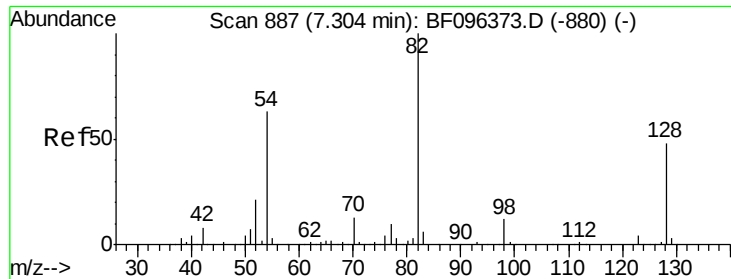
Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Tgt Ion:	136	Resp:	477215
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	9.2	4.9	7.3#
68	4.9	4.1	6.1





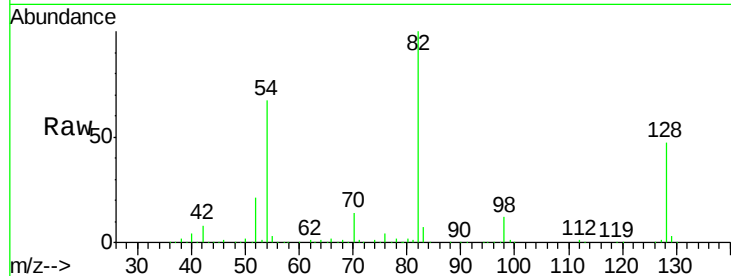
#23
 Nitrobenzene-d5
 Concen: 71.243 ng
 RT: 7.23 min Scan# 874
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampled :
 TP1-0-3

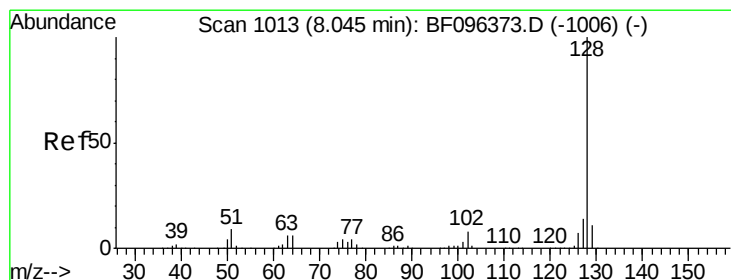
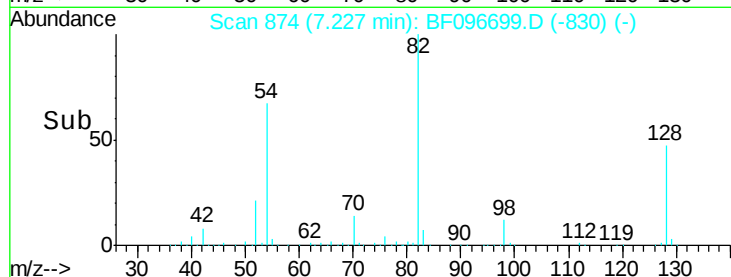
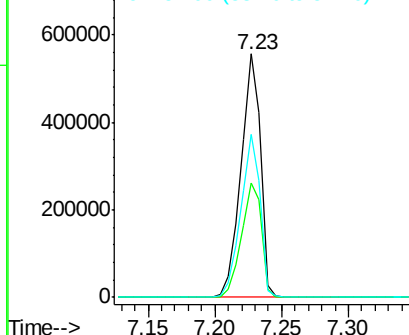
Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.7	34.0	51.0
54	66.8	42.2	63.2

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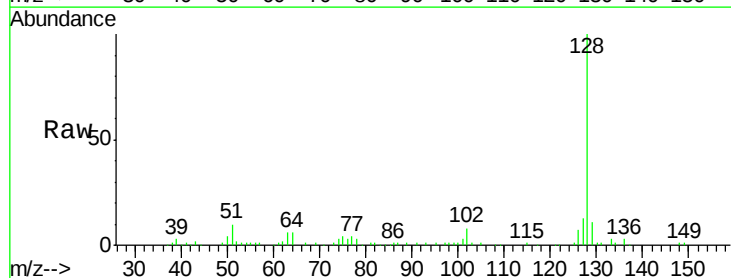


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

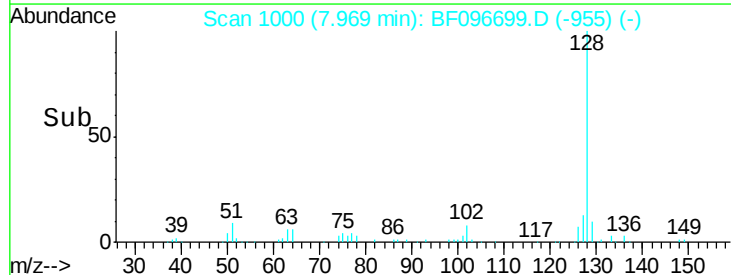
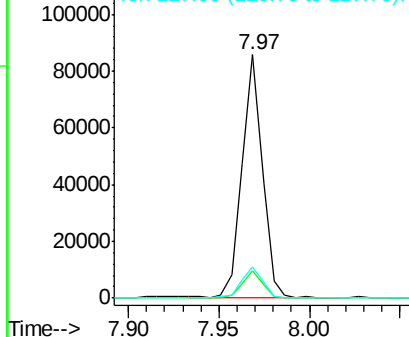


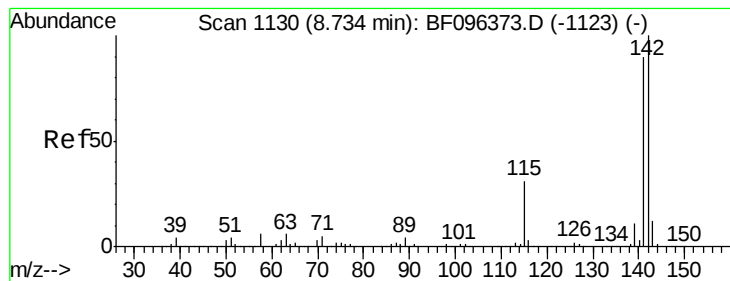
#31
 Naphthalene
 Concen: 3.005 ng
 RT: 7.97 min Scan# 1000
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	12.9	10.8	16.2



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





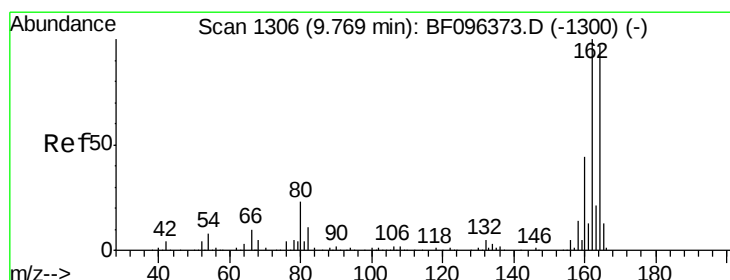
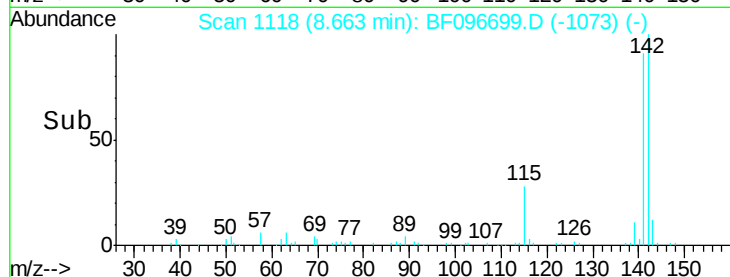
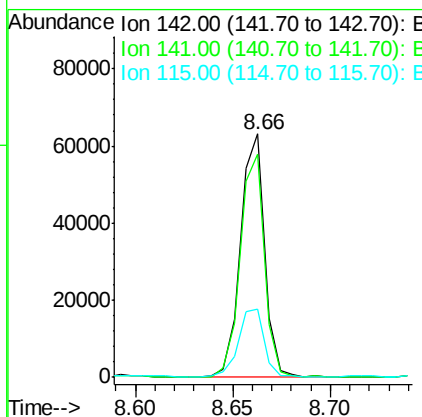
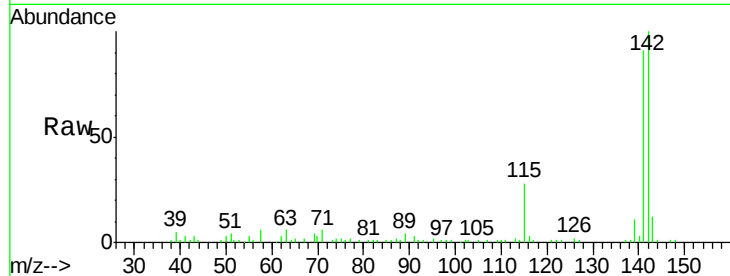
#37
2-Methylnaphthalene
Concen: 3.763 ng
RT: 8.66 min Scan# 1118
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Instrument :
BNA_F
ClientSampleId :
TP1-0-3

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.3	106.9
115	28.2	27.1	40.7

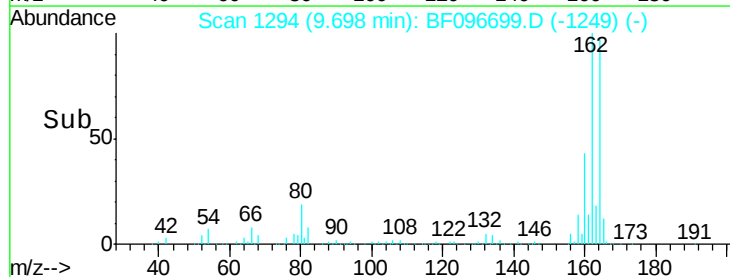
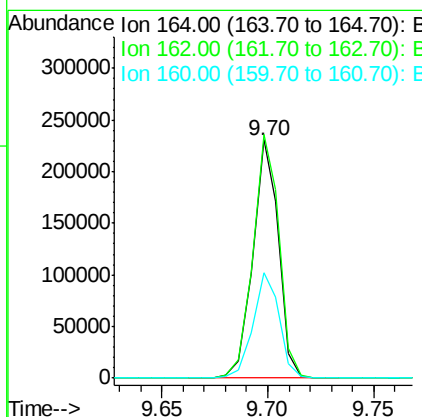
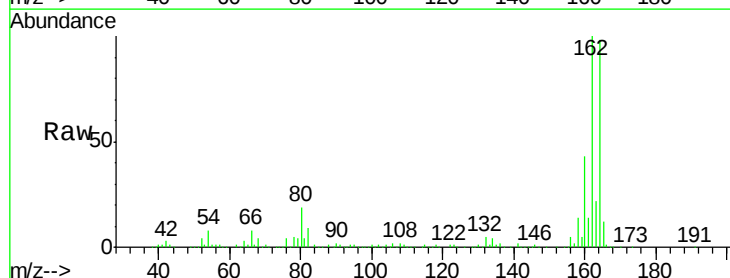
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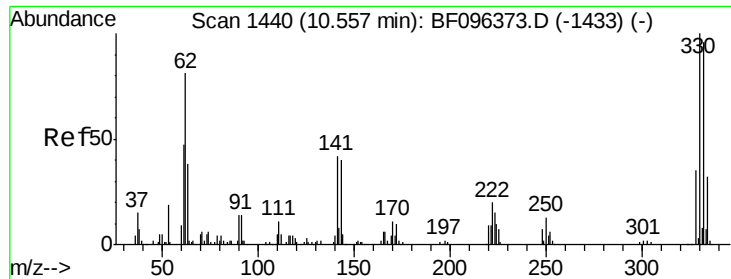
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.6	123.8
160	44.2	36.2	54.2





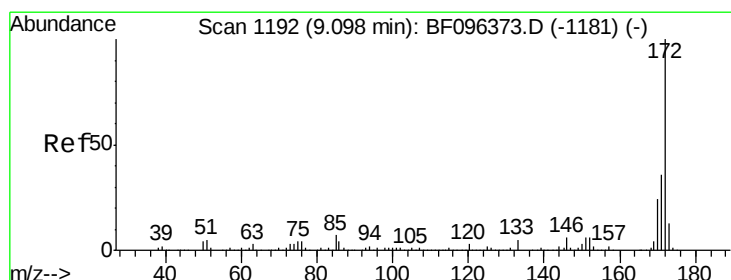
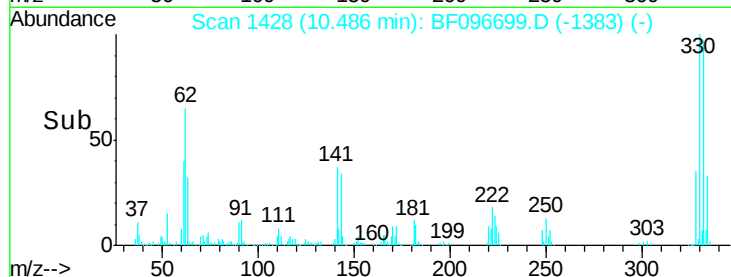
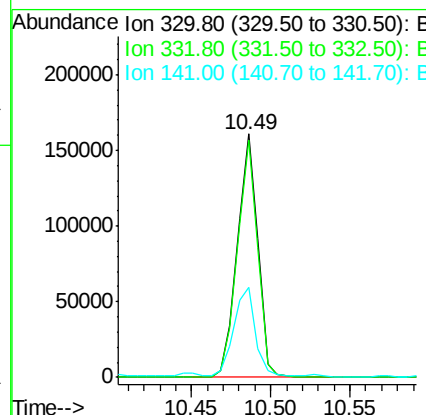
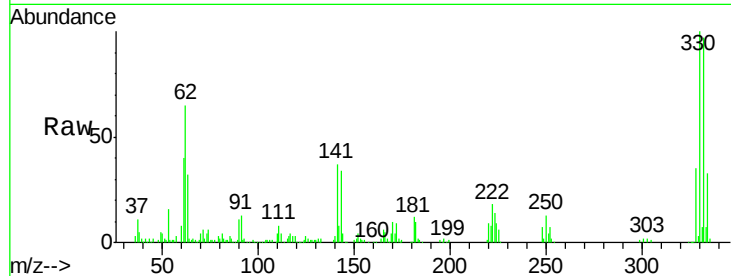
#41
 2,4,6-Tribromophenol
 Concen: 96.011 ng
 RT: 10.49 min Scan# 1428
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampled :
 TP1-0-3

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	145121		
332	95.9	76.6	115.0	
141	37.7	31.4	47.2	

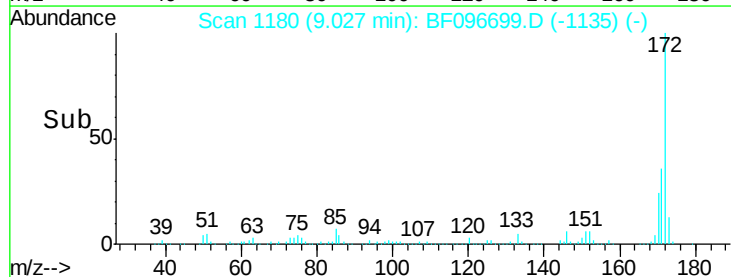
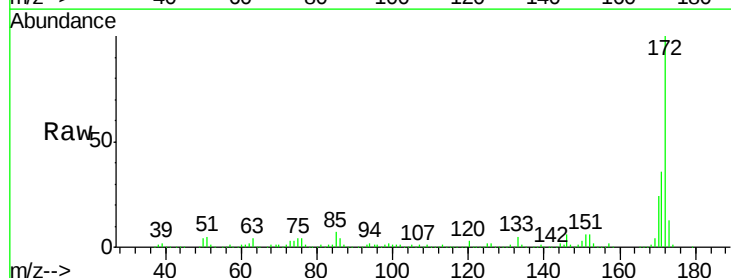
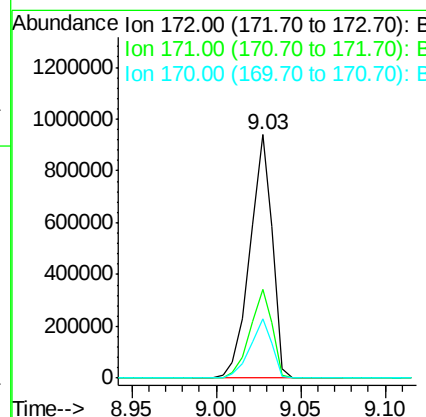
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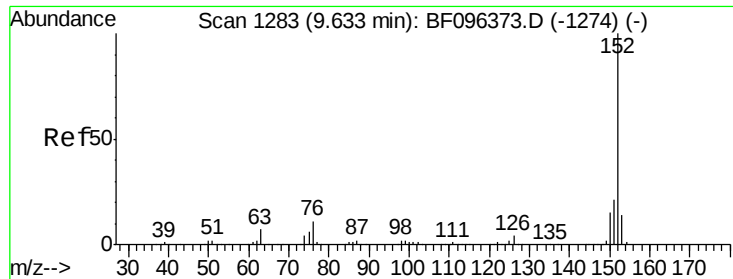
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#44
 2-Fluorobiphenyl
 Concen: 76.866 ng
 RT: 9.03 min Scan# 1180
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	869937		
171	36.3	29.6	44.4	
170	24.2	19.8	29.8	





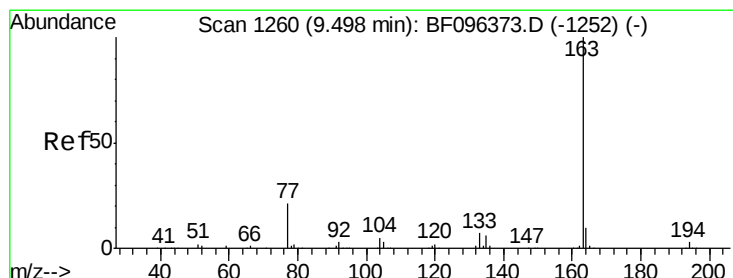
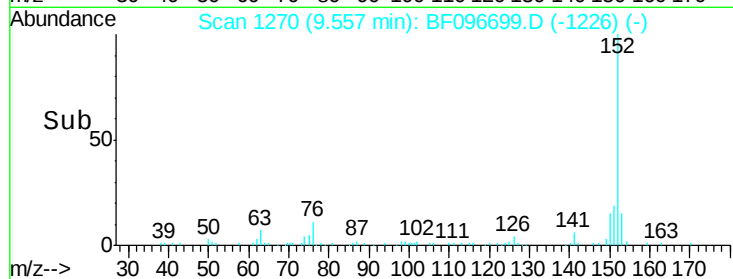
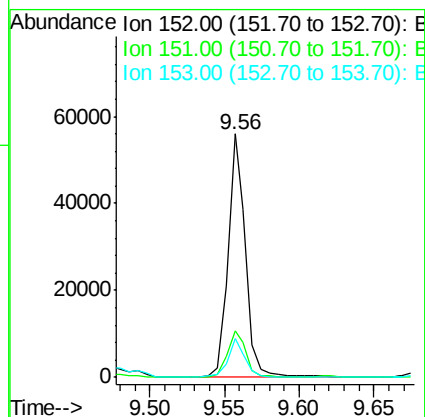
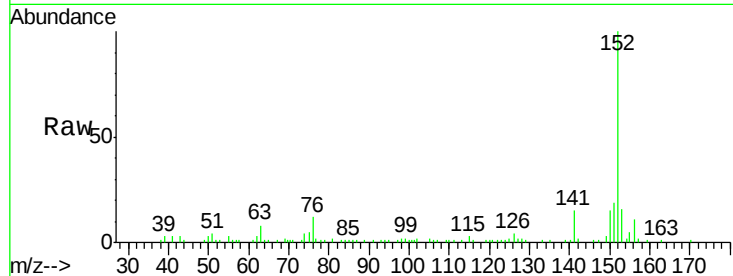
#48
Acenaphthylene
Concen: 2.367 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Instrument :
BNA_F
ClientSampleId :
TP1-0-3

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	46333		
151	19.3		16.8	25.2
153	16.1		10.8	16.2

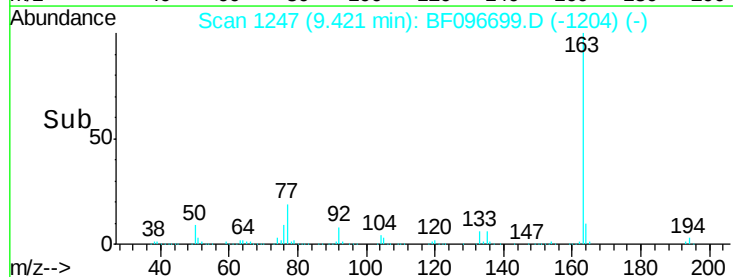
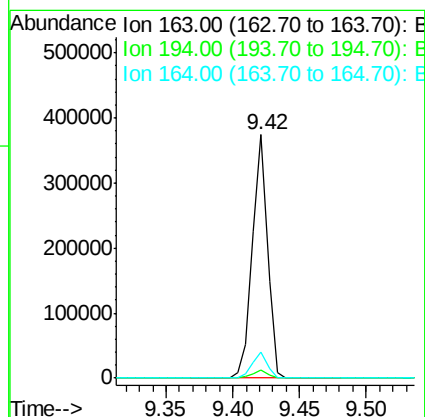
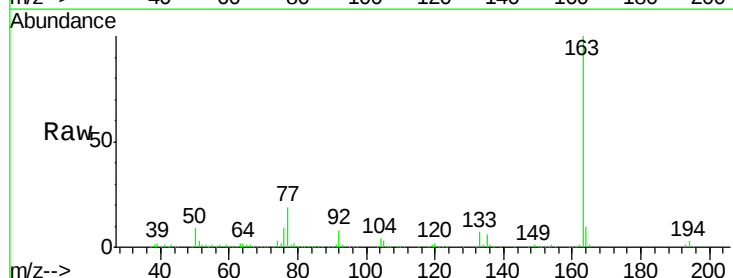
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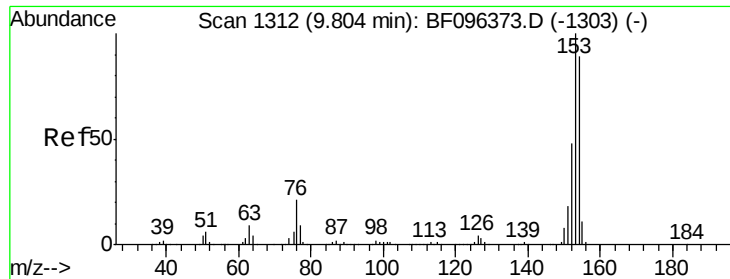
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#49
Dimethylphthalate
Concen: 20.182 ng
RT: 9.42 min Scan# 1247
Delta R.T. -0.05 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	291530		
194	3.4		2.6	4.0
164	10.5		8.4	12.6





#51

Acenaphthene

Concen: 2.632 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Instrument :

BNA_F

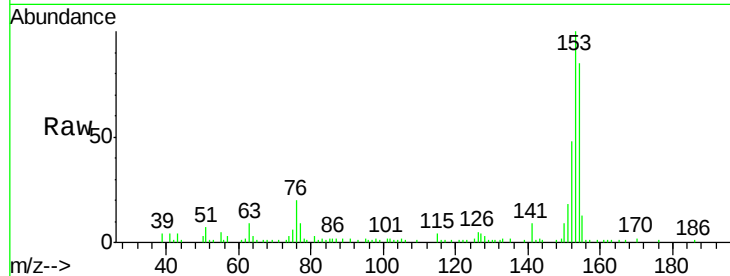
ClientSampled :

TP1-0-3

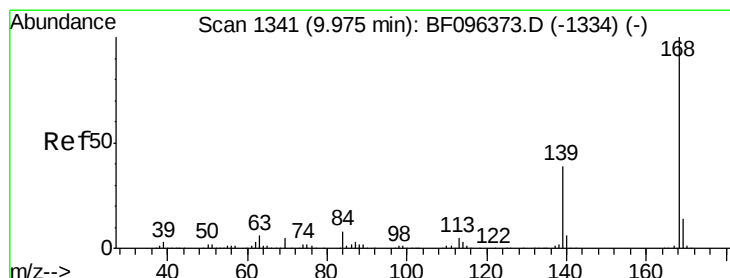
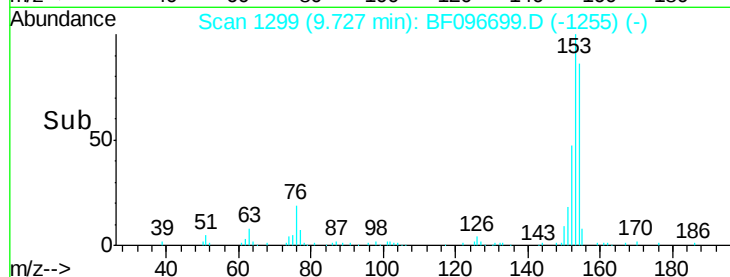
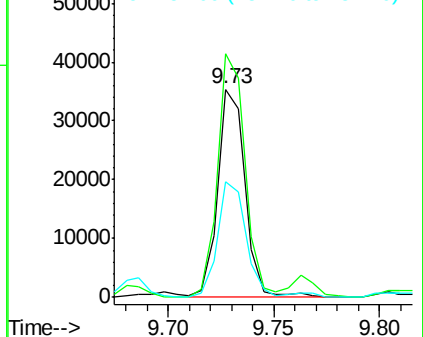
Tgt Ion:	154	Resp:	31767
Ion Ratio	Lower	Upper	
154	100		
153	117.1	90.5	135.7
152	55.7	43.6	65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.447 ng

RT: 9.90 min Scan# 1329

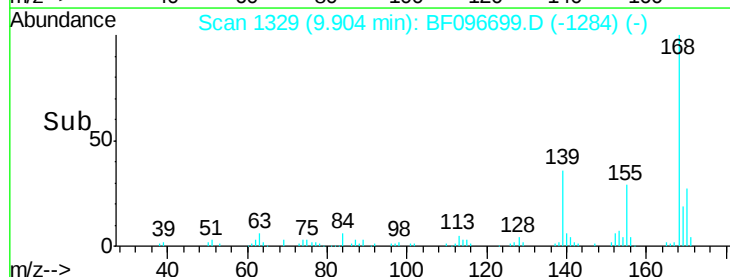
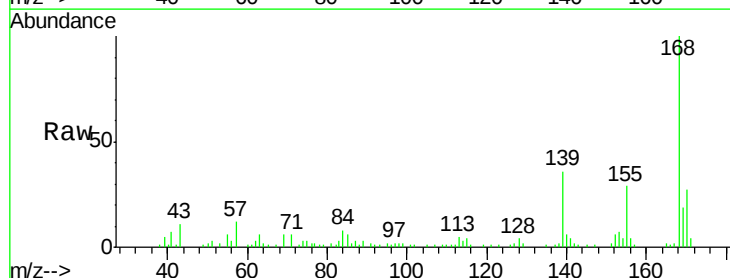
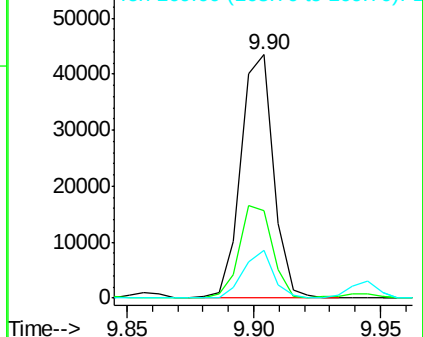
Delta R.T. -0.04 min

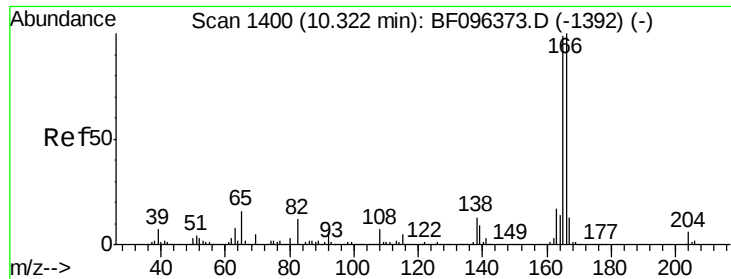
Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Tgt Ion:	168	Resp:	38997
Ion Ratio	Lower	Upper	
168	100		
139	36.2	30.6	45.8
169	19.4	10.8	16.2#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





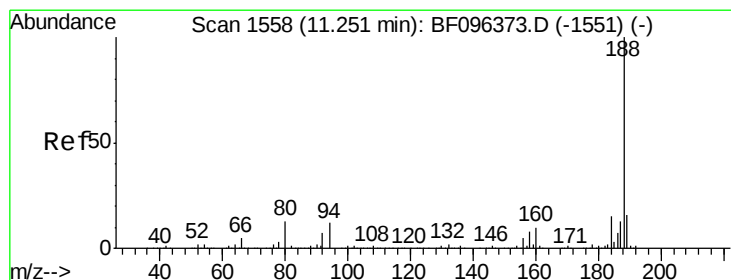
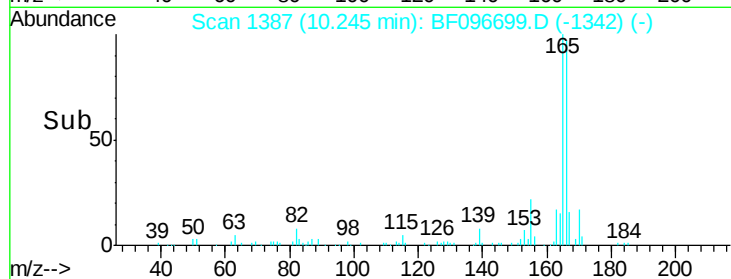
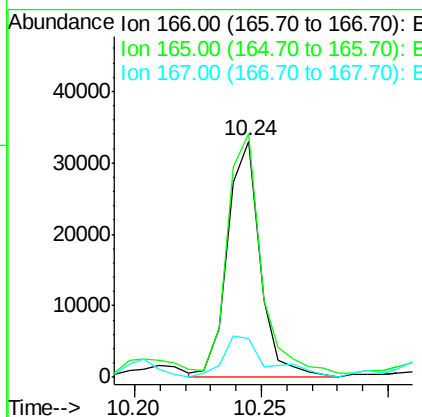
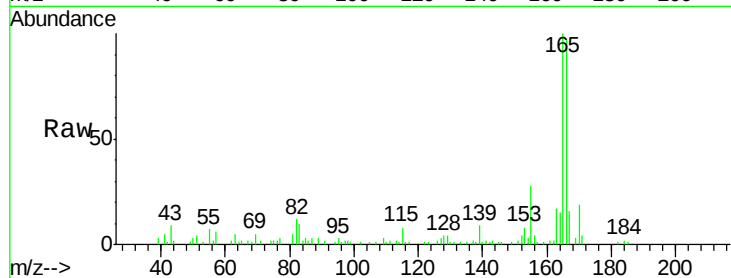
#57
Fluorene
 Concen: 2.636 ng
 RT: 10.24 min Scan# 1387
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampleId :
 TP1-0-3

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	29663		
165	103.1	78.8	118.2	
167	16.3	10.6	16.0	

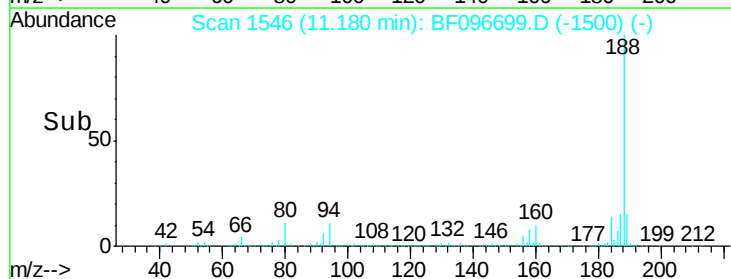
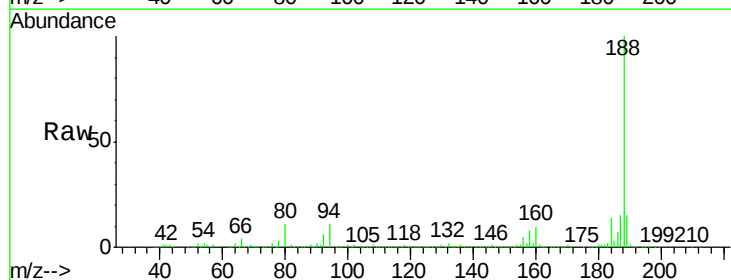
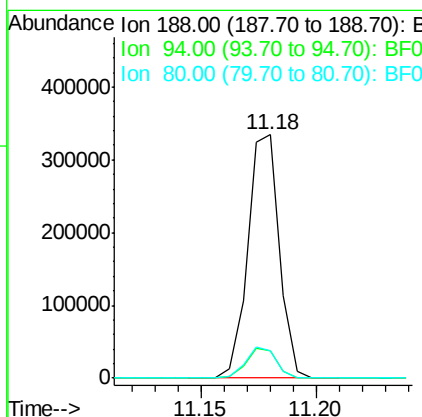
Manual Integrations
 APPROVED

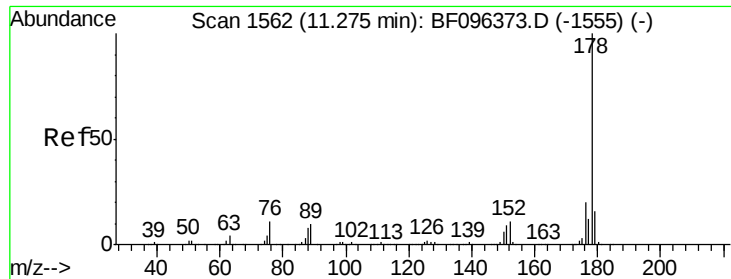
mohammad
 7/13/2017 1:37:55 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.18 min Scan# 1546
 Delta R.T. -0.03 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	319186		
94	11.3	9.4	14.2	
80	11.0	10.2	15.2	





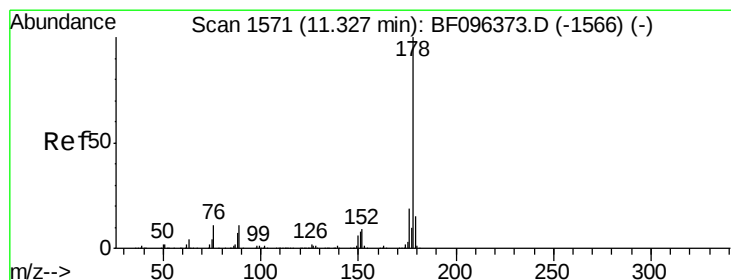
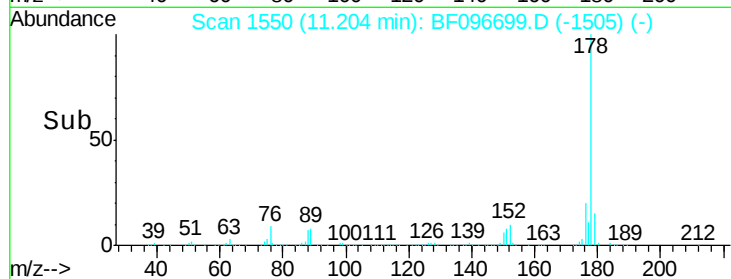
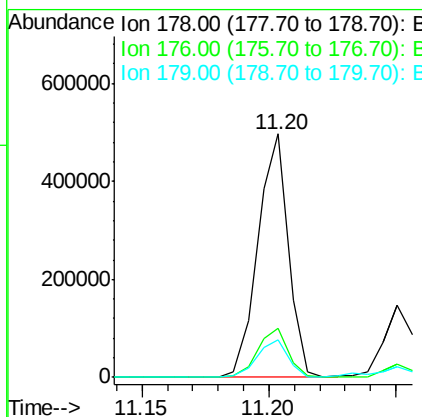
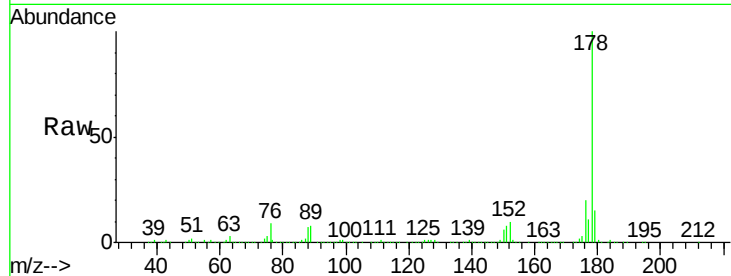
#70
Phenanthrene
Concen: 24.206 ng
RT: 11.20 min Scan# 1550
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Instrument :
BNA_F
ClientSampleId :
TP1-0-3

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.2	24.4
179	15.3	12.6	19.0

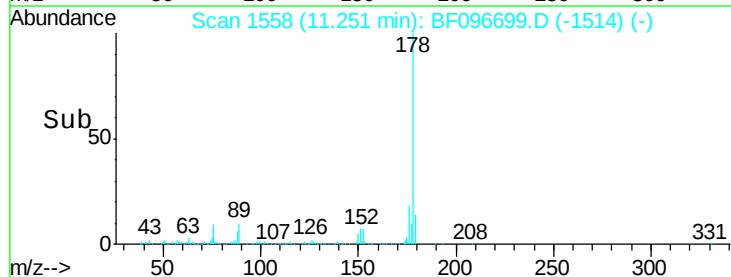
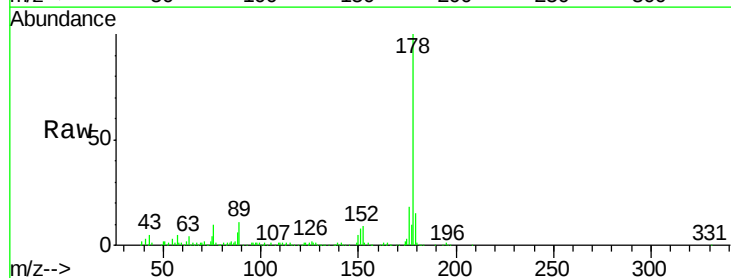
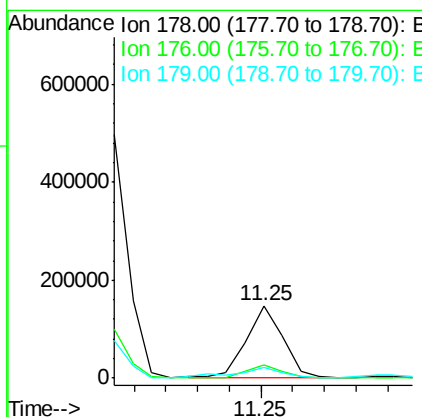
Manual Integrations
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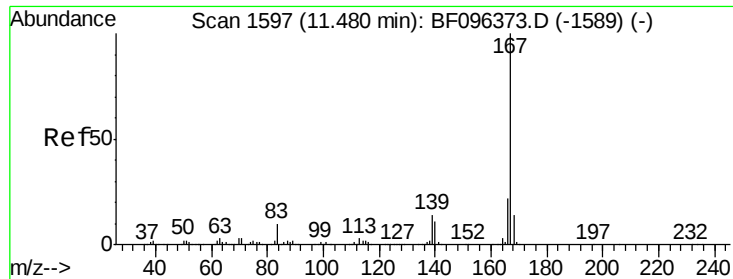
mohammad
7/13/2017 1:37:55 PM



#71
Anthracene
Concen: 6.587 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	14.5	12.7	19.1





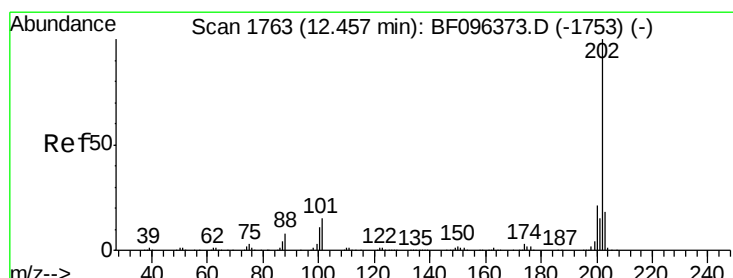
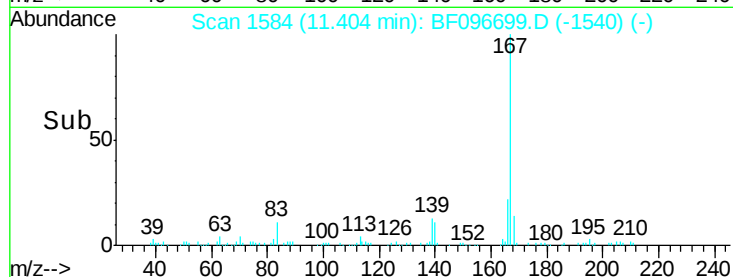
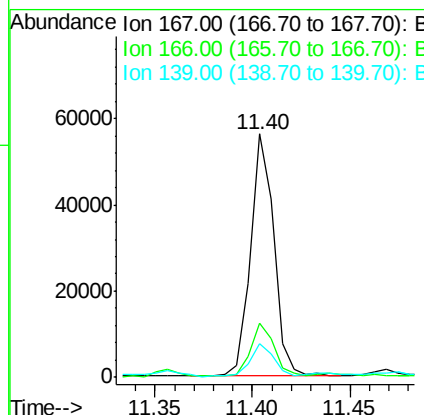
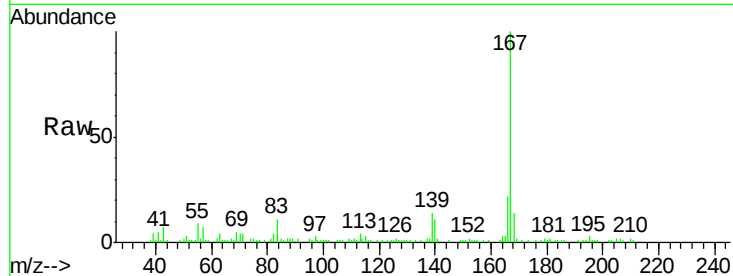
#72
 Carbazole
 Concen: 2.624 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampleId :
 TP1-0-3

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	18.1	27.1
139	14.0	11.7	17.5

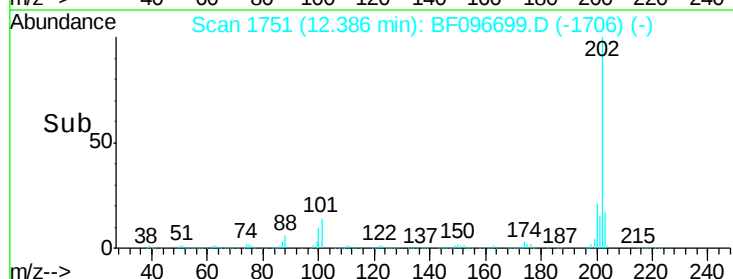
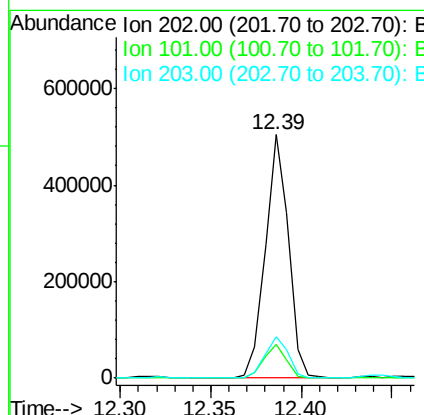
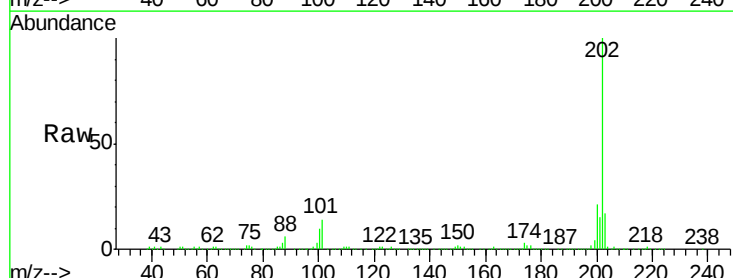
Manual Integrations
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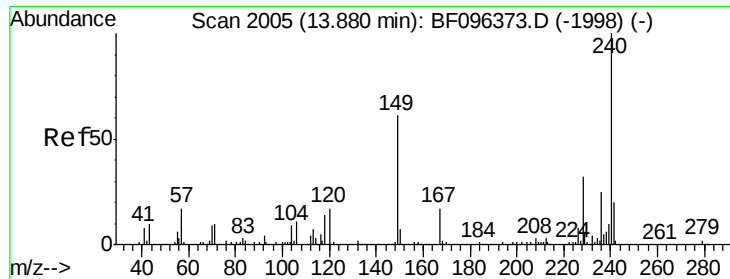
mohammad
 7/13/2017 1:37:55 PM



#74
 Fluoranthene
 Concen: 26.318 ng
 RT: 12.39 min Scan# 1751
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.2
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Instrument :

BNA_F

ClientSampleId :

TP1-0-3

Tgt Ion: 240 Resp: 197050

Ion Ratio Lower Upper

240 100

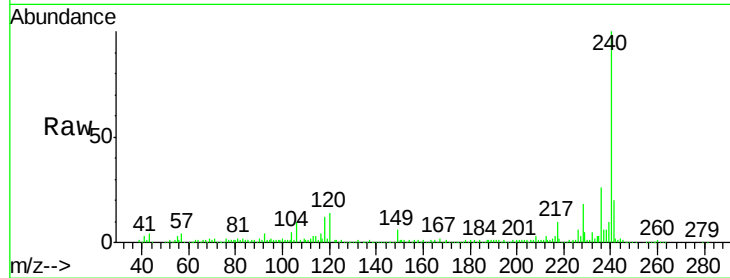
120 13.8 5.8 8.8#

236 26.3 20.5 30.7

Manual Integrations
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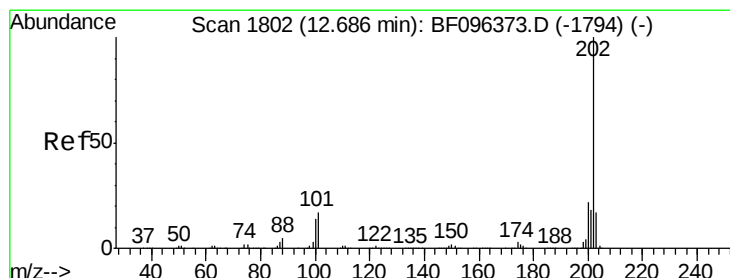
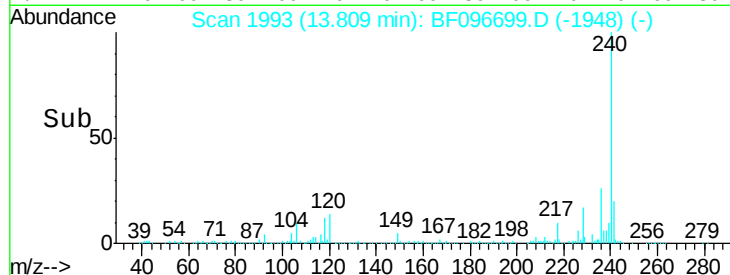
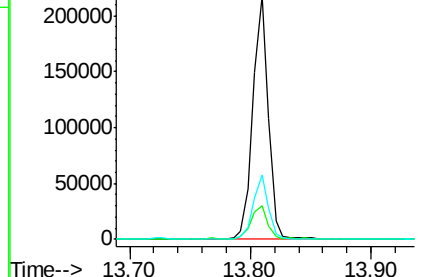
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 23.516 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

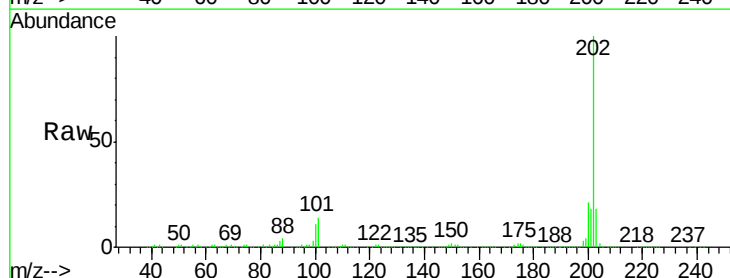
Tgt Ion: 202 Resp: 371937

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

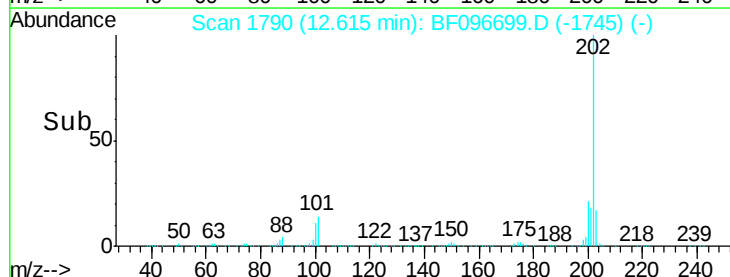
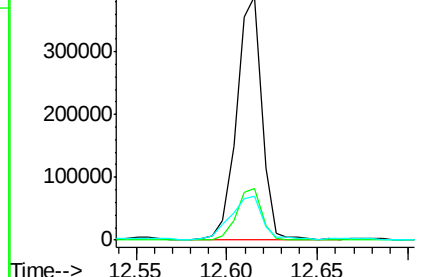
203 17.9 14.4 21.6

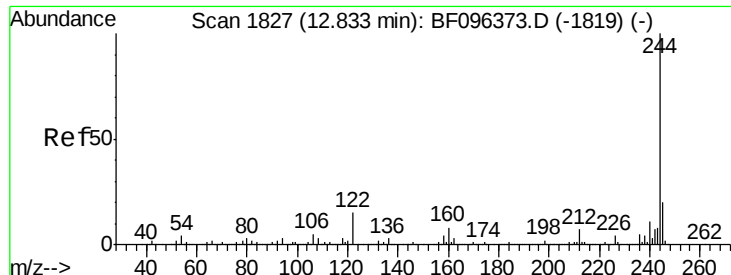


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





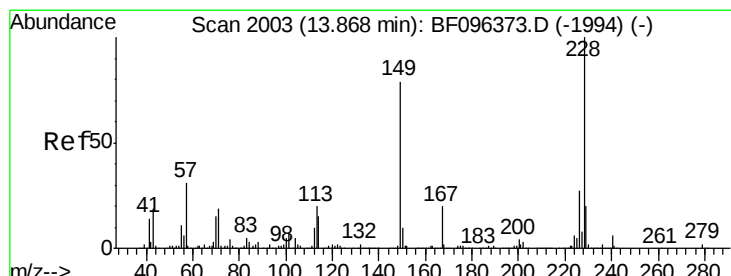
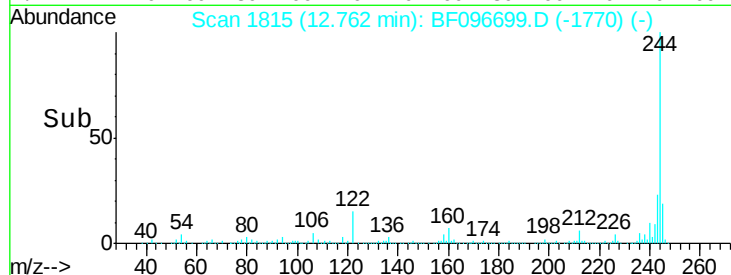
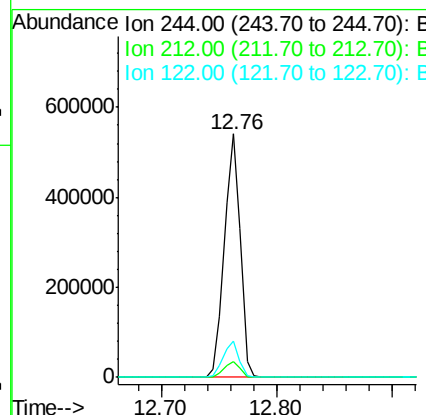
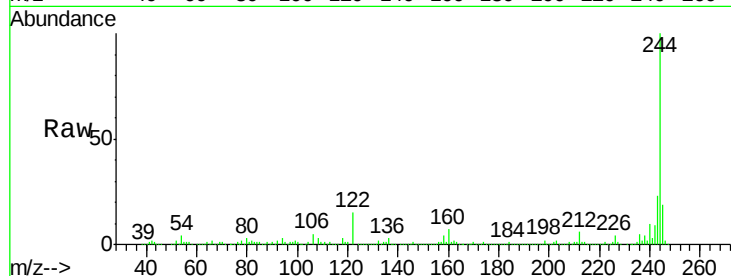
#78
 Terphenyl-d14
 Concen: 56.078 ng
 RT: 12.76 min Scan# 1815
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Instrument :
 BNA_F
 ClientSampleId :
 TP1-0-3

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.0	9.0
122	15.0	10.3	15.5

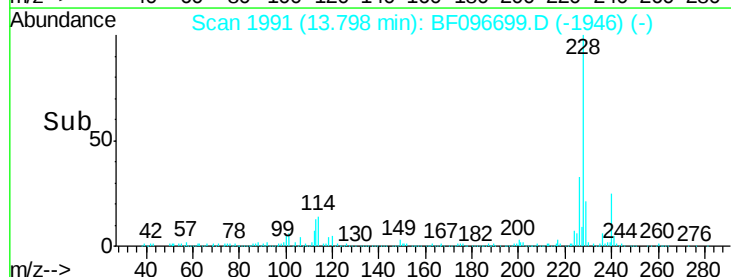
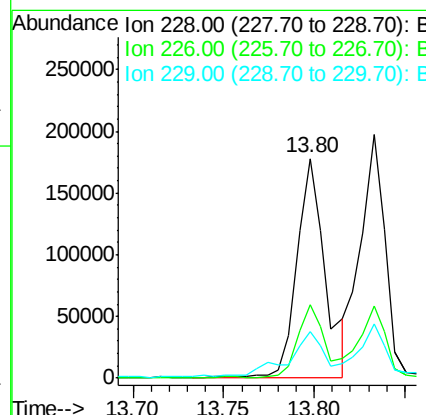
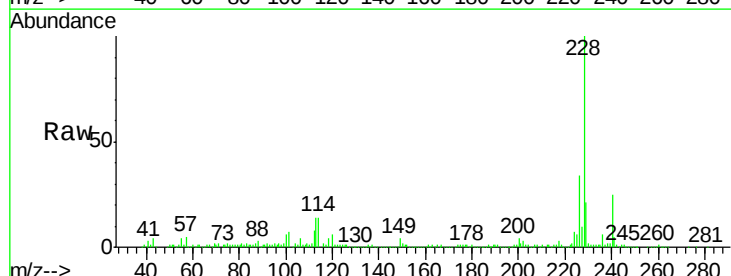
Manual Integrations
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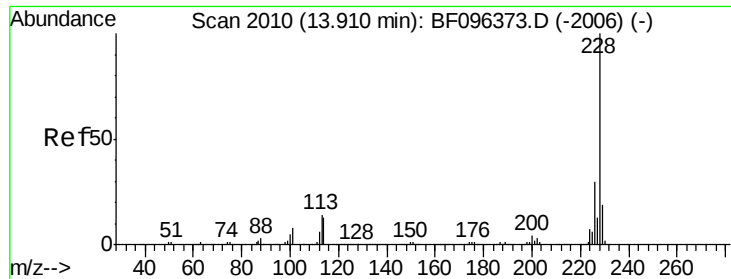
mohammad
 7/13/2017 1:37:55 PM



#80
 Benzo(a)anthracene
 Concen: 16.960 ng
 RT: 13.80 min Scan# 1991
 Delta R.T. -0.04 min
 Lab File: BF096699.D
 Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.5	22.6	33.8
229	21.0	16.3	24.5





#82

Chrysene

Concen: 15.704 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.04 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Instrument :

BNA_F

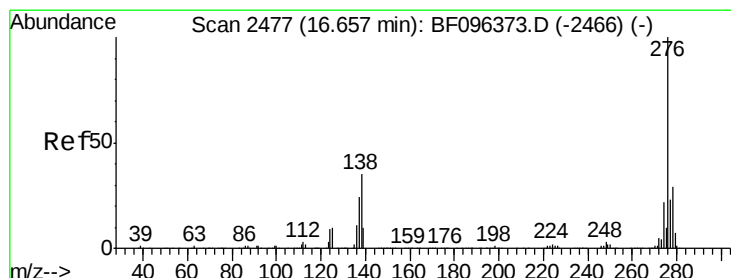
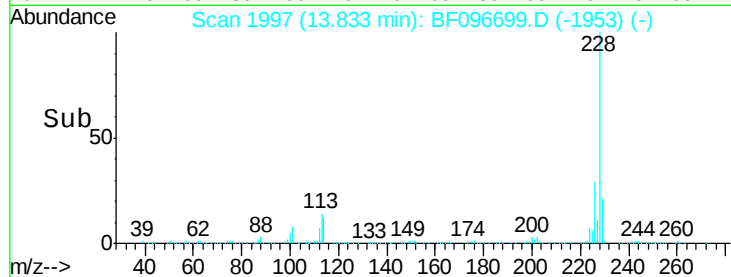
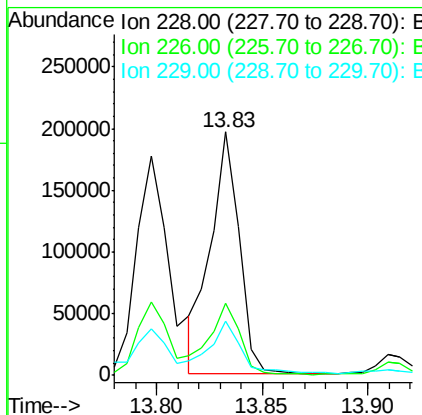
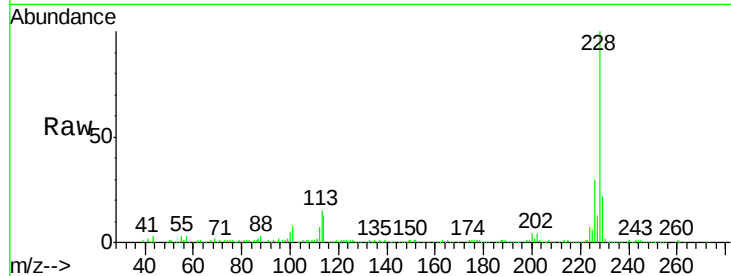
ClientSampled :

TP1-0-3

Tgt Ion:	228	Resp:	187654
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.9	37.3
229	22.3	15.8	23.6

Manual Integrations
APPROVED

mohammad
7/13/2017 1:37:55 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.087 ng

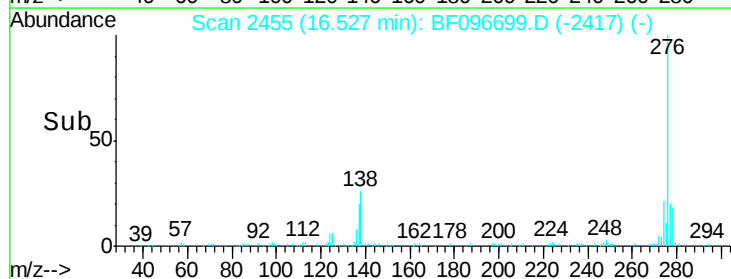
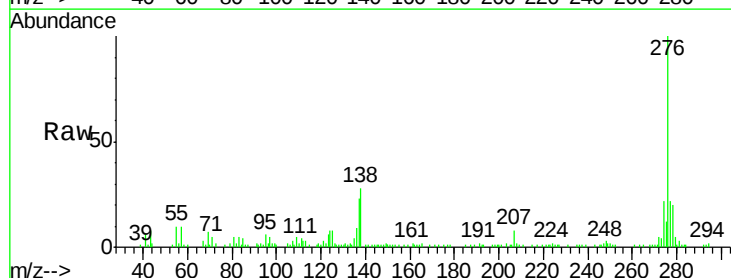
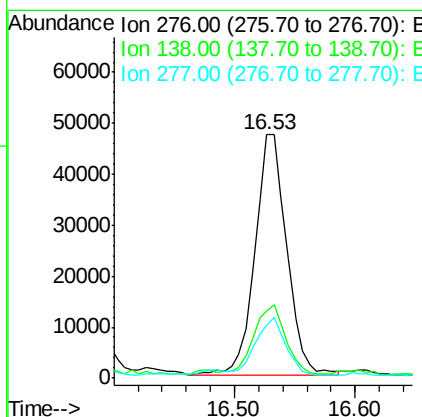
RT: 16.53 min Scan# 2455

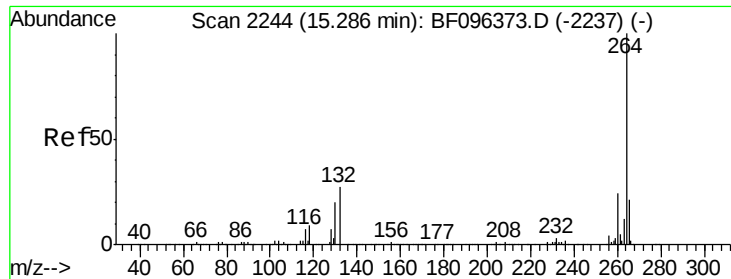
Delta R.T. -0.08 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Tgt Ion:	276	Resp:	85707
Ion Ratio	Lower	Upper	
276	100		
138	30.1	27.8	41.6
277	23.0	20.2	30.4





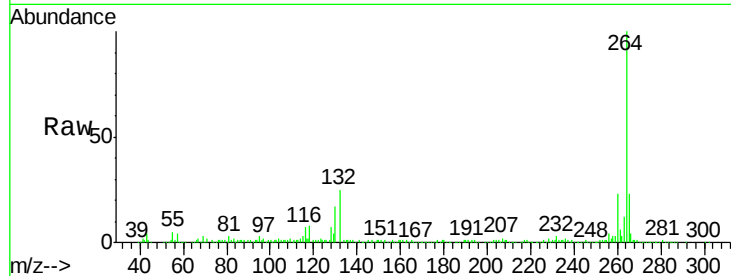
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Instrument :
BNA_F
ClientSampleId :
TP1-0-3

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	22.7	17.2	25.8

Manual Integrations
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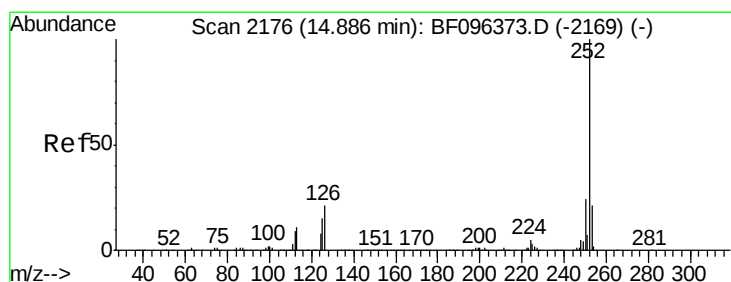
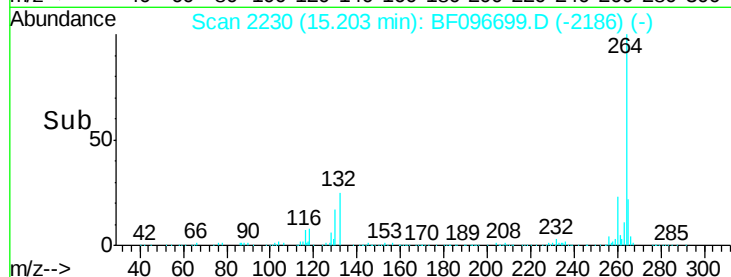
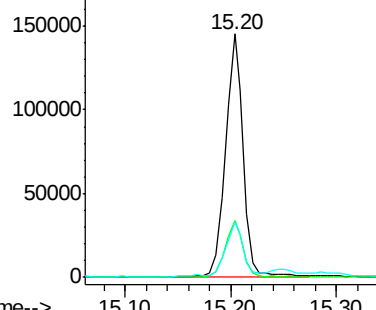


Abundance

Ion 264.00 (263.70 to 264.70): E

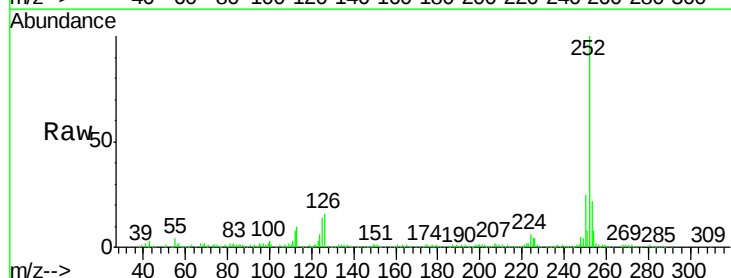
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 22.524 ng m
RT: 14.82 min Scan# 2164
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	13.9	9.8	14.8

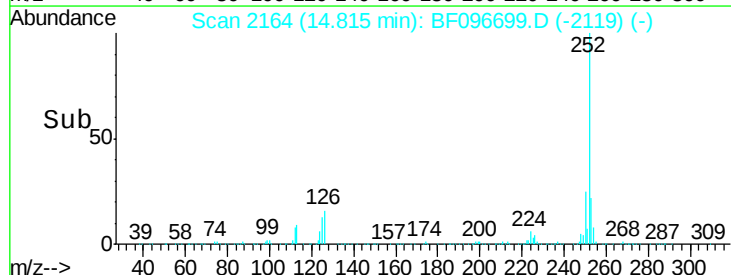
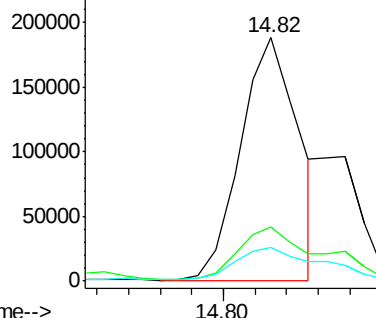


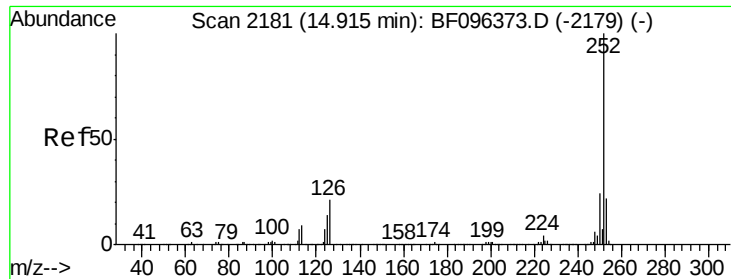
Abundance

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





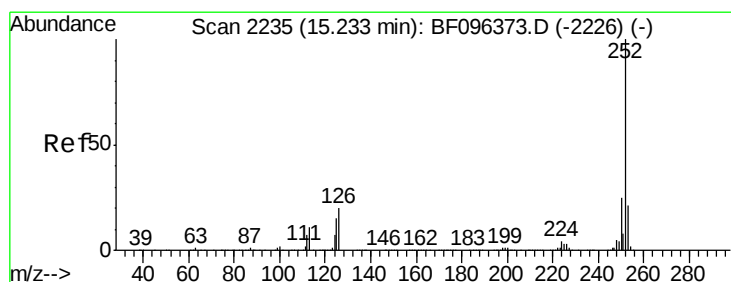
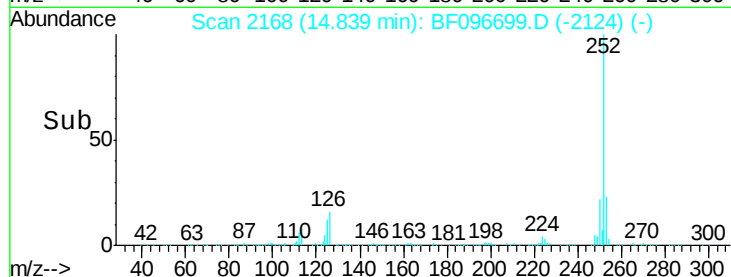
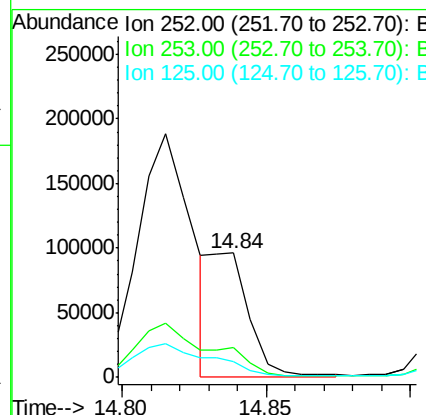
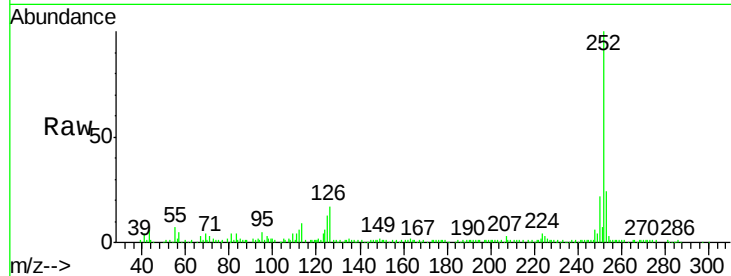
#88
Benzo(k)fluoranthene
Concen: 9.312 ng m
RT: 14.84 min Scan# 2168
Delta R.T. -0.04 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Instrument :
BNA_F
ClientSampled :
TP1-0-3

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.4	27.6
125	12.9	13.1	19.7

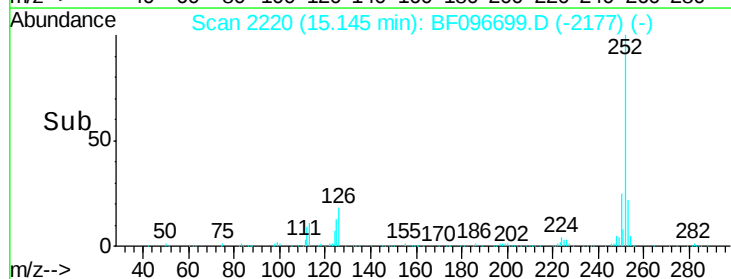
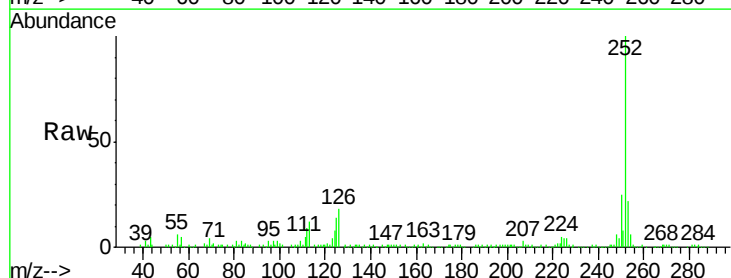
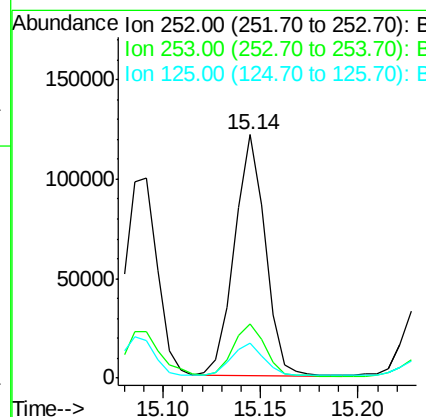
Manual Integrations
APPROVED

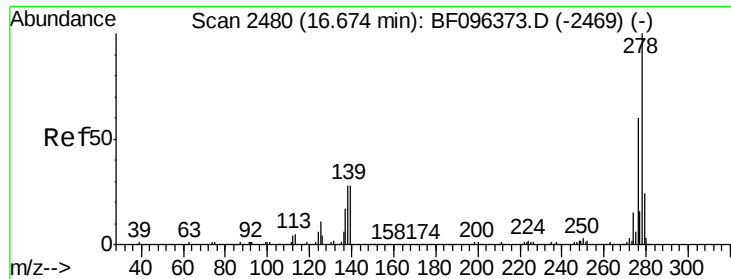
mohammad
7/13/2017 1:37:55 PM



#89
Benzo(a)pyrene
Concen: 13.758 ng
RT: 15.14 min Scan# 2220
Delta R.T. -0.05 min
Lab File: BF096699.D
Acq: 12 Jul 2017 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	14.2	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.094 ng m

RT: 16.53 min Scan# 2456

Delta R.T. -0.08 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Instrument :

BNA_F

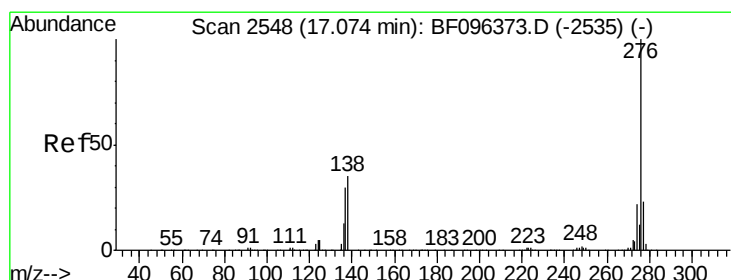
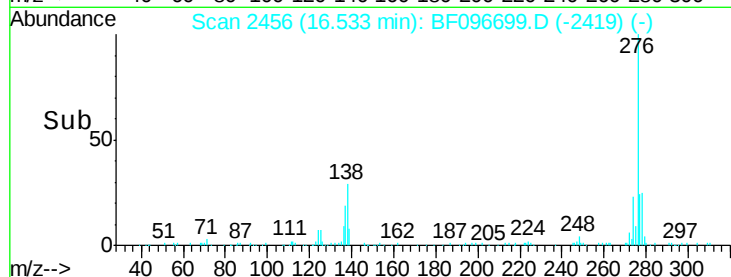
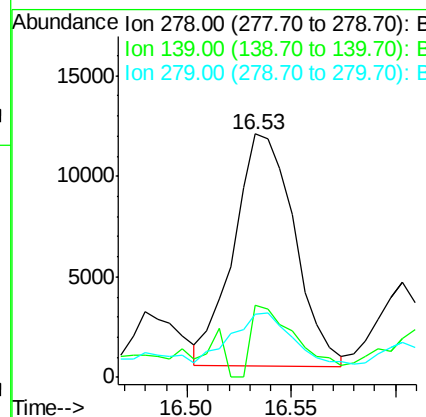
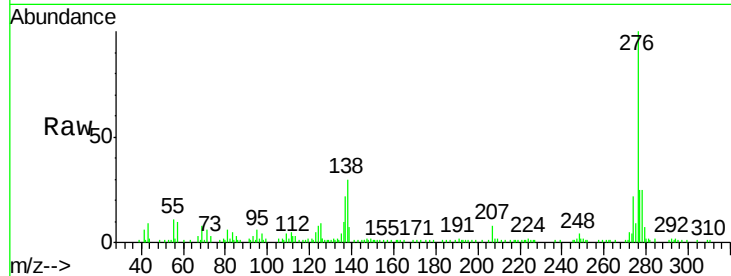
ClientSampleId :

TP1-0-3

Tgt Ion:	278	Resp:	23458
Ion Ratio	Lower	Upper	
278	100		
139	29.5	16.6	24.8#
279	25.9	19.3	28.9

Manual Integrations
APPROVED

mohammad
7/13/2017 1:37:55 PM



#91

Benzo(g,h,i)perylene

Concen: 9.527 ng

RT: 16.93 min Scan# 2523

Delta R.T. -0.08 min

Lab File: BF096699.D

Acq: 12 Jul 2017 18:43

Tgt Ion:	276	Resp:	74852
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.6	28.0
138	33.3	25.4	38.0

