

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\
 Data File : BF096625.D
 Acq On : 11 Jul 2017 2:24
 Operator : SJ/JU
 Sample : I4071-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-070617-A

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Quant Time: Jul 11 06:29:42 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	96520	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	330251	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	123106	20.00	ng	-0.02
63) Phenanthrene-d10	11.19	188	197215	20.00	ng	-0.02
75) Chrysene-d12	13.83	240	218763	20.00	ng	-0.02
86) Perylene-d12	15.23	264	170472	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	360967	55.20	ng	-0.02
7) Phenol-d6	6.32	99	408742	50.84	ng	-0.02
23) Nitrobenzene-d5	7.25	82	226067	41.13	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	54389	56.56	ng	-0.02
44) 2-Fluorobiphenyl	9.05	172	351849	48.87	ng	-0.02
78) Terphenyl-d14	12.78	244	292259	28.55	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.57	152	36235	2.91	ng	98
49) Dimethylphthalate	9.43	163	61822	6.73	ng	# 98
70) Phenanthrene	11.22	178	61456	5.76	ng	97
71) Anthracene	11.27	178	38432	3.54	ng	97
74) Fluoranthene	12.40	202	330603	31.63	ng	98
77) Pyrene	12.63	202	334411	19.04	ng	98
80) Benzo(a)anthracene	13.82	228	228010	18.00	ng	95
82) Chrysene	13.85	228	192888	14.54	ng	98
85) Indeno(1,2,3-cd)pyrene	16.57	276	81749	7.81	ng	94
87) Benzo(b)fluoranthene	14.83	252	272250m	25.49	ng	
88) Benzo(k)fluoranthene	14.86	252	84051m	8.80	ng	
89) Benzo(a)pyrene	15.17	252	162407	17.03	ng	97
90) Dibenzo(a,h)anthracene	16.57	278	22479	3.00	ng	# 88
91) Benzo(a,h,i)perylene	16.97	276	77057	9.91	ng	97

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

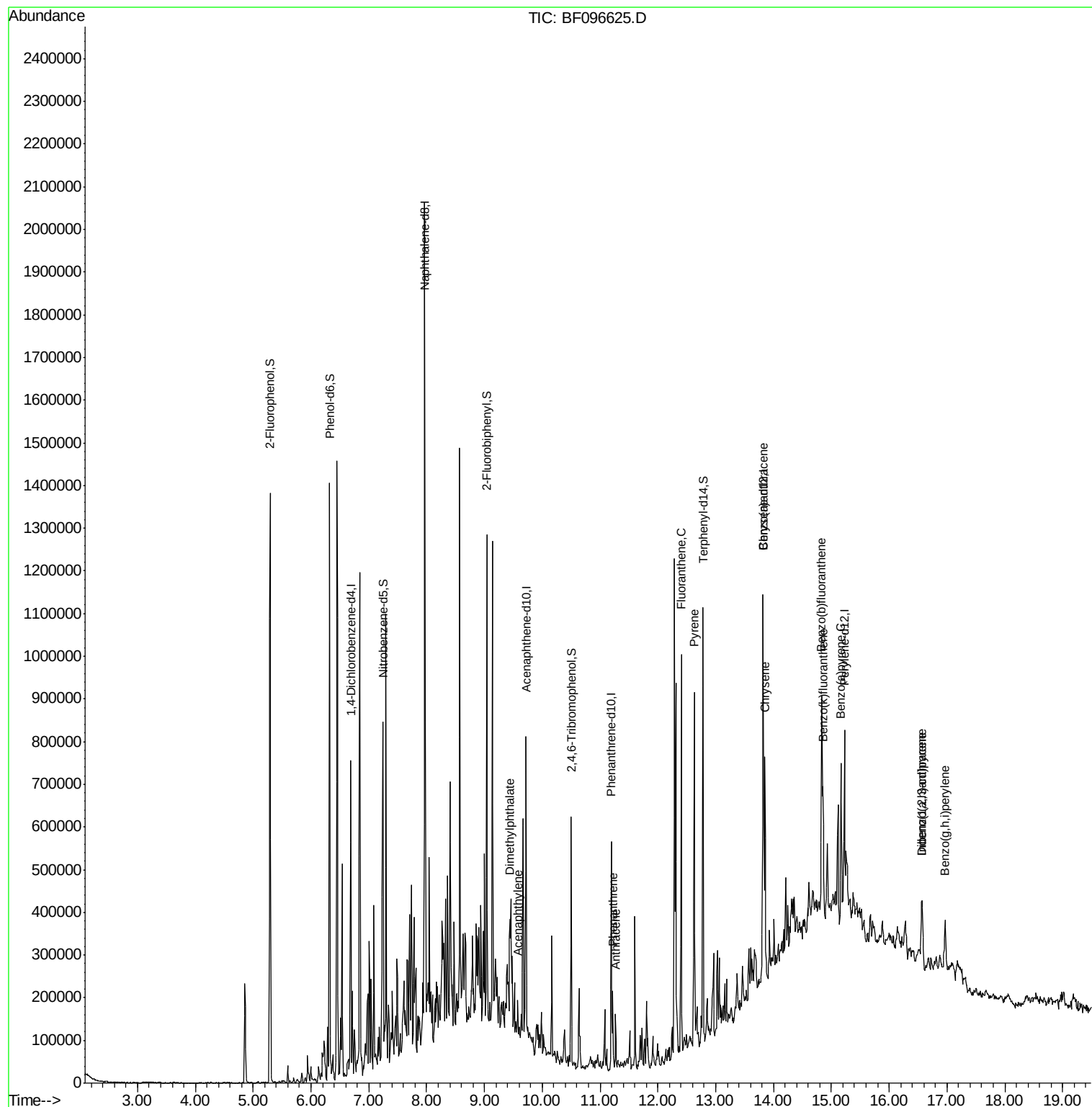
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\
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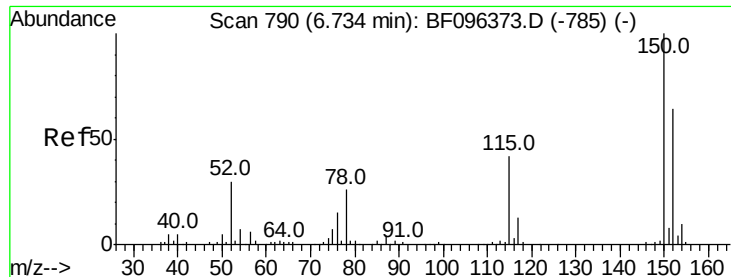
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#1

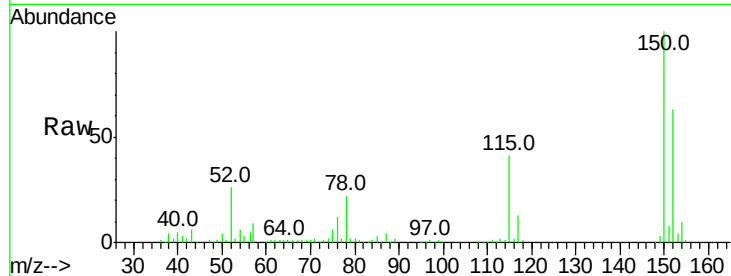
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.69 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
HR-06-070617-A

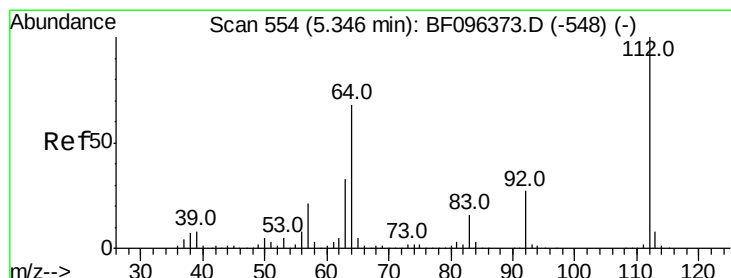
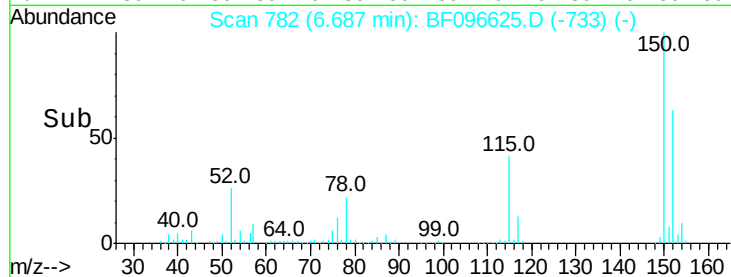
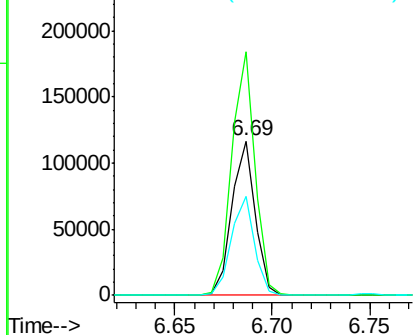
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	126.2	189.2
115	64.4	52.2	78.2

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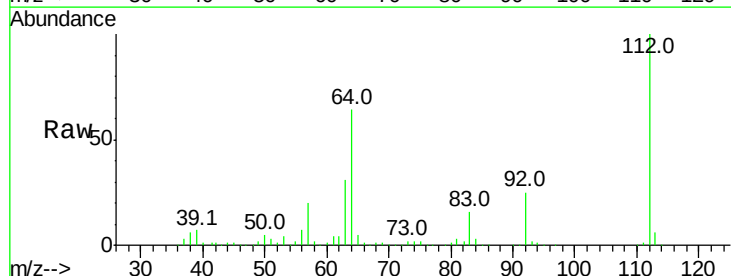
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



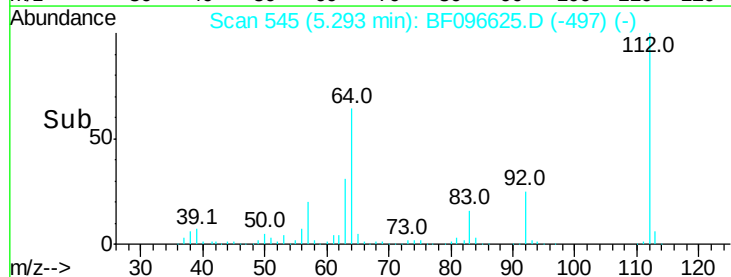
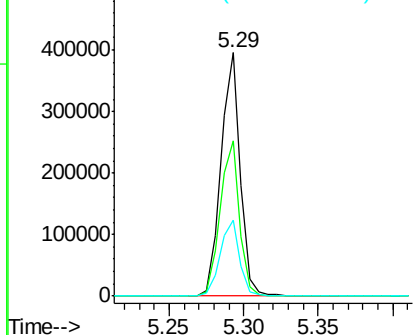
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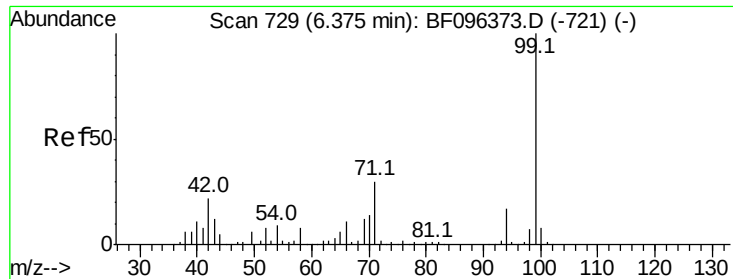
2-Fluorophenol
Concen: 55.20 ng
RT: 5.29 min Scan# 545
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.8	46.0	69.0
63	31.1	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: 50.84 ng

RT: 6.32 min Scan# 720

Delta R.T. -0.02 min

Lab File: BF096625.D

Acq: 11 Jul 2017 2:24

Instrument :

BNA_F

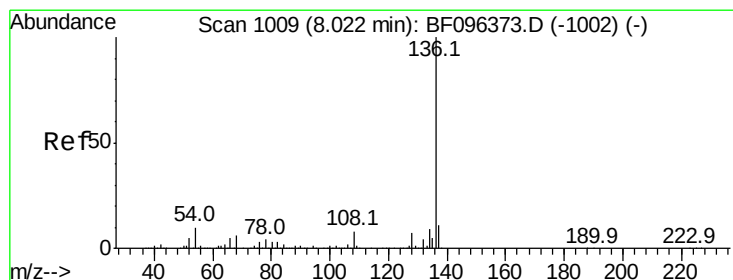
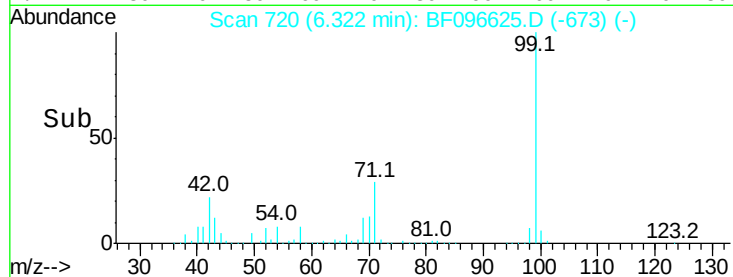
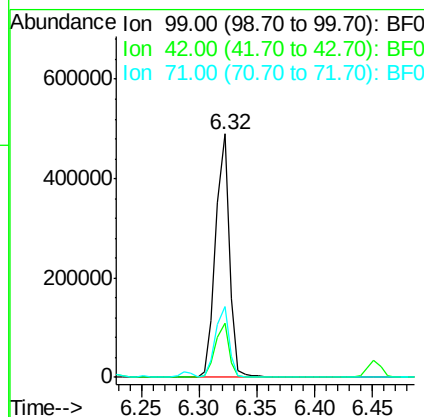
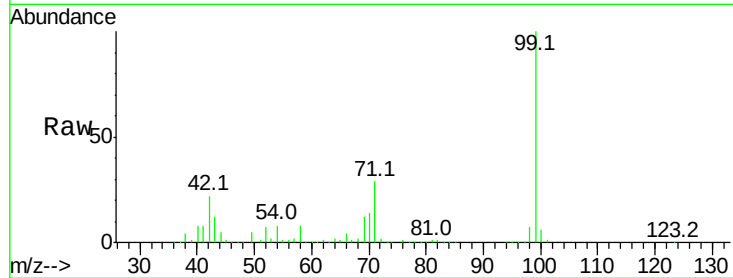
ClientSampleId :

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Tot Ion:	99	Resp:	408742
Ion Ratio	Lower	Upper	
99	100		
42	22.2	13.5	20.3#
71	29.2	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

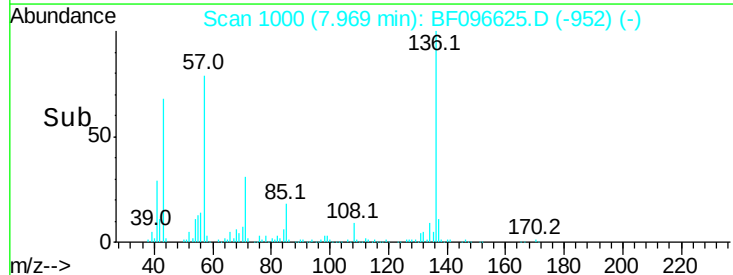
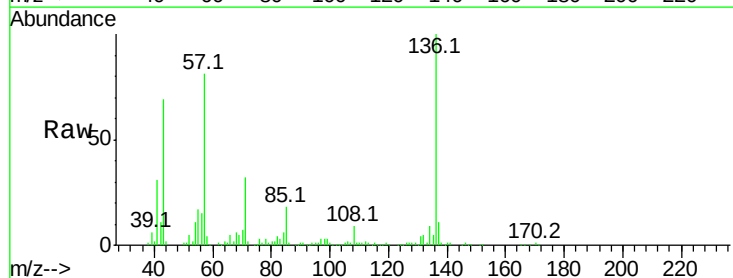
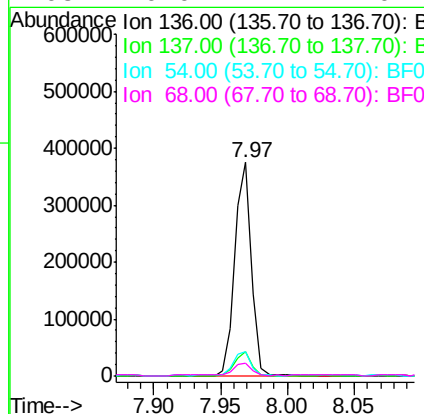
RT: 7.97 min Scan# 1000

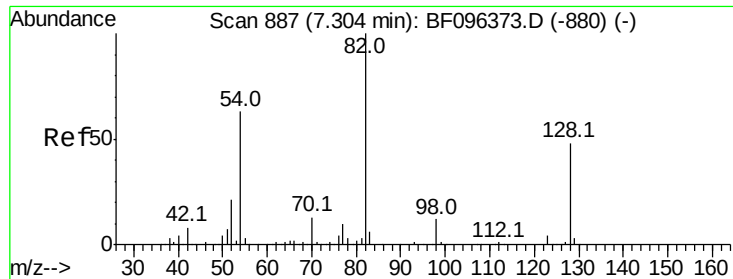
Delta R.T. -0.02 min

Lab File: BF096625.D

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Tgt Ion:	136	Resp:	330251
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.5	12.7
54	11.4	4.9	7.3#
68	6.0	4.1	6.1





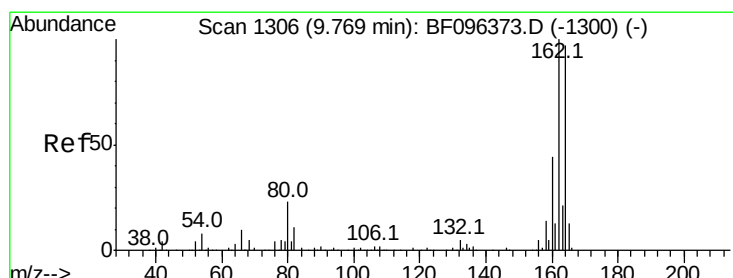
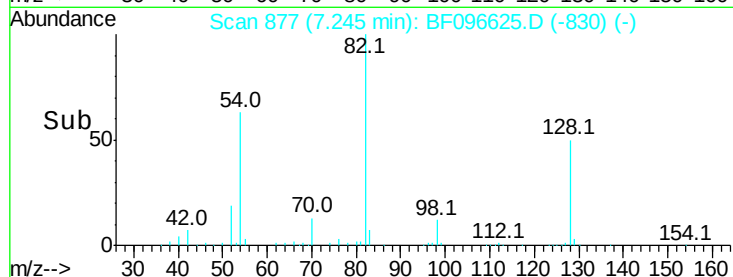
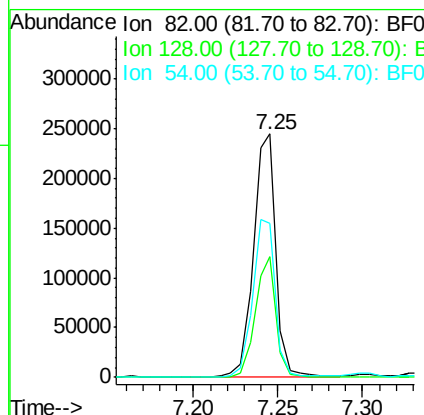
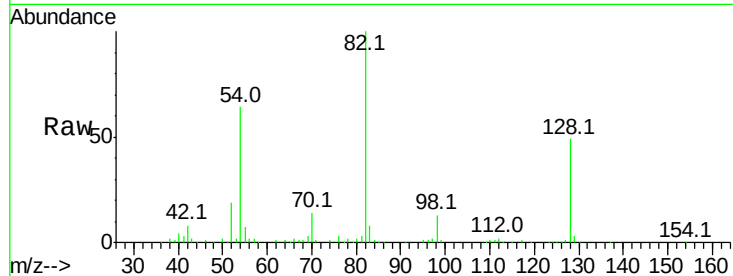
#23
Nitrobenzene-d5
Concen: 41.13 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
82	100		
128	49.5	34.0	51.0
54	63.5	42.2	63.2

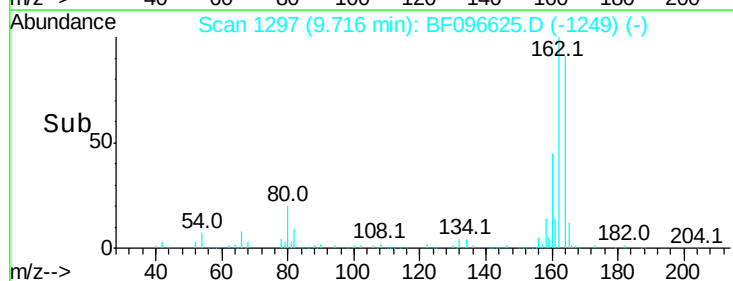
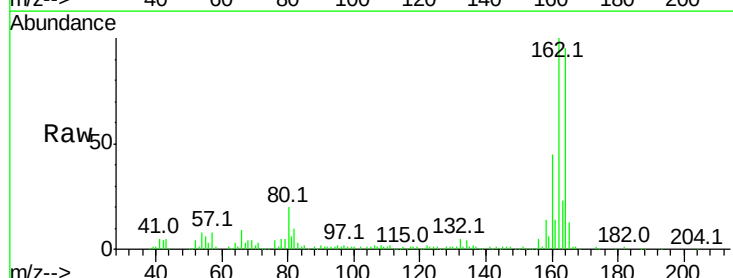
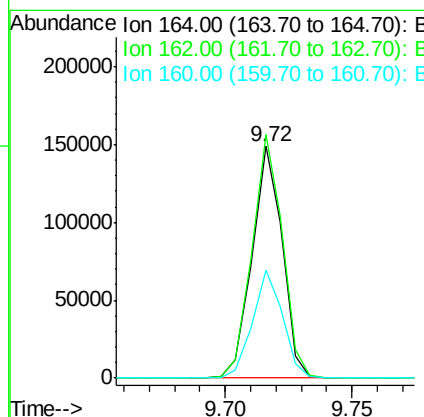
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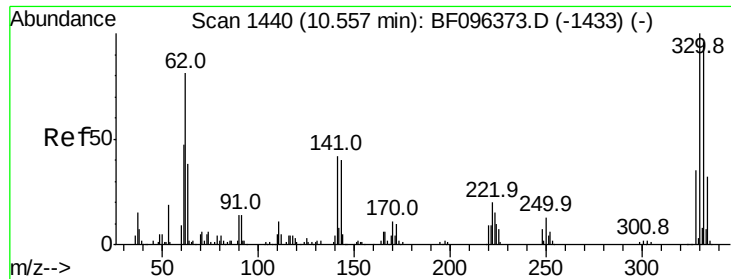
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.6	123.8
160	46.8	36.2	54.2





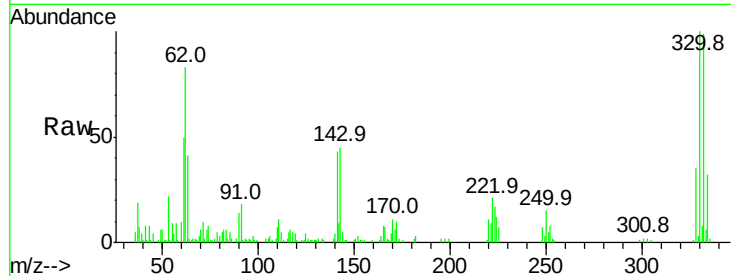
#41
 2,4,6-Tribromophenol
 Concen: 56.56 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-070617-A

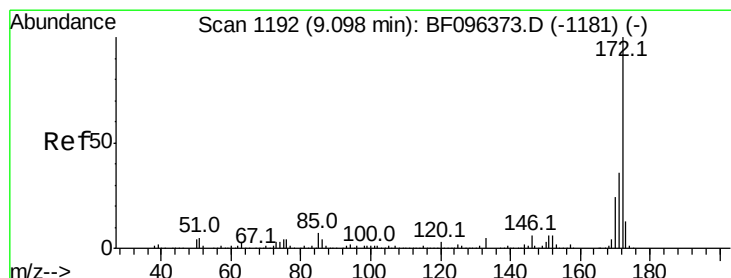
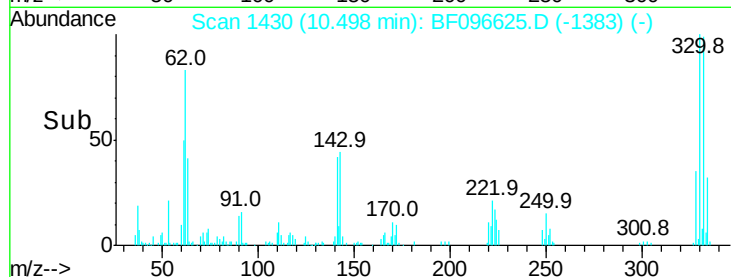
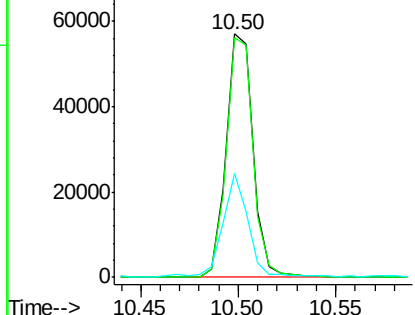
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.2	76.6	115.0	
141	41.6	31.4	47.2	

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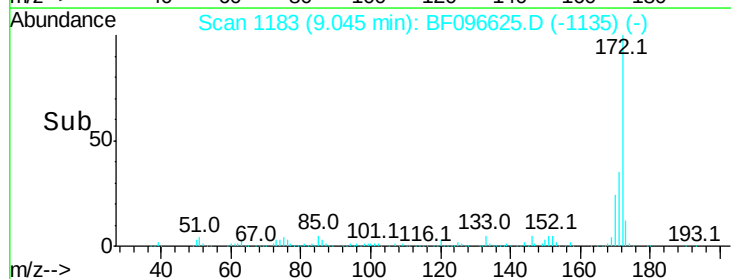
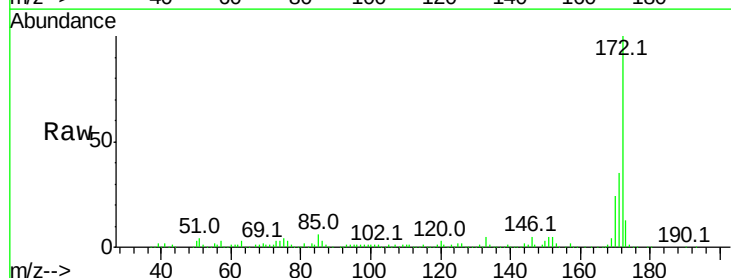
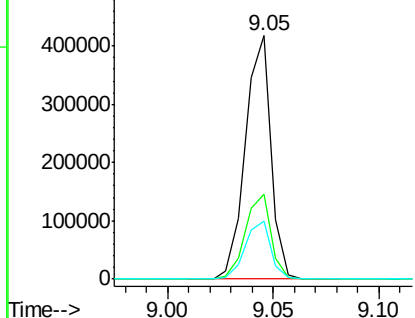
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

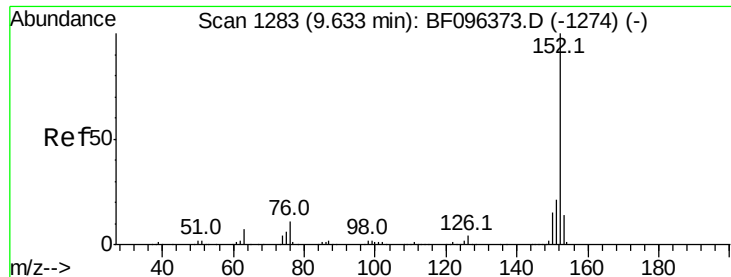


#44
 2-Fluorobiphenyl
 Concen: 48.87 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.8	29.6	44.4	
170	23.6	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: 2.91 ng

RT: 9.57 min Scan# 1273

Delta R.T. -0.02 min

Lab File: BF096625.D

Acq: 11 Jul 2017 2:24

Instrument :

BNA_F

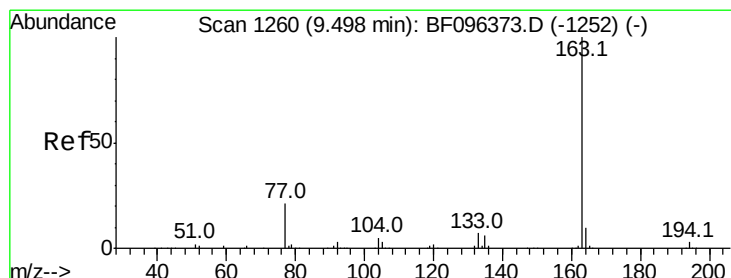
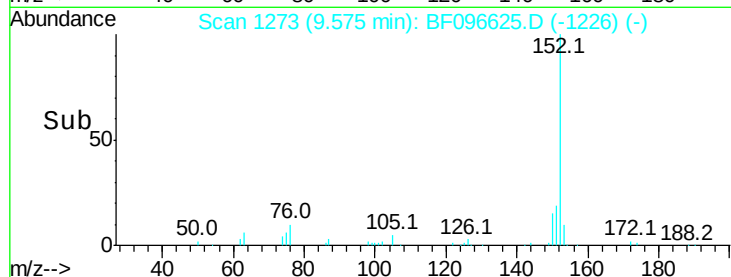
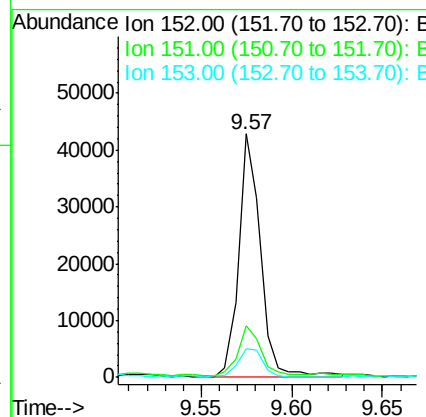
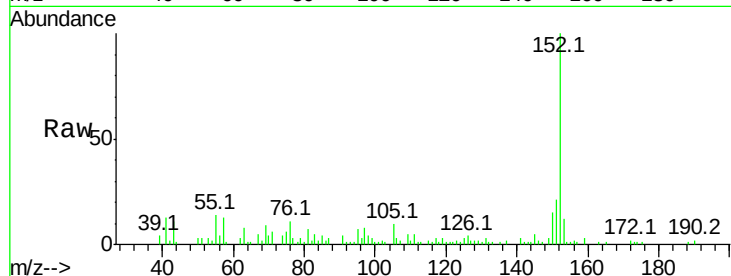
ClientSampleId :

HR-06-070617-A

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.1	16.8	25.2	
153	11.6	10.8	16.2	

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#49

Dimethylphthalate

Concen: 6.73 ng

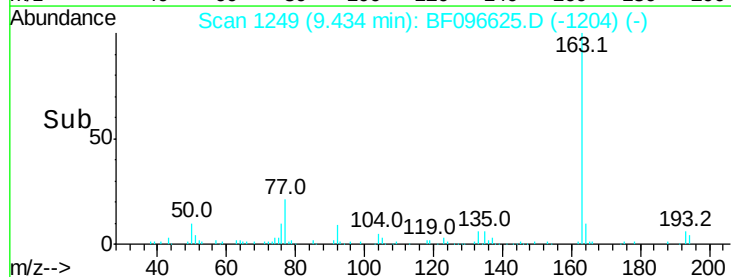
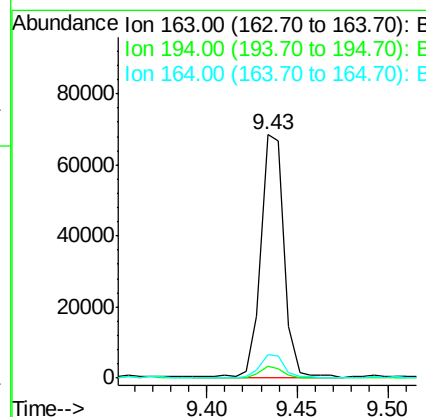
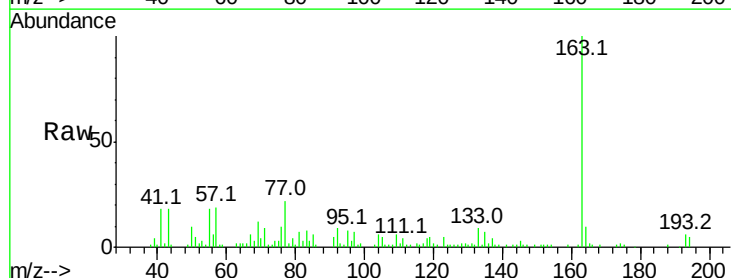
RT: 9.43 min Scan# 1249

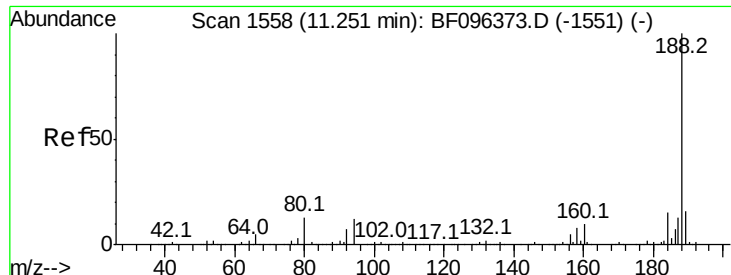
Delta R.T. -0.04 min

Lab File: BF096625.D

Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.7	2.6	4.0#	
164	9.9	8.4	12.6	





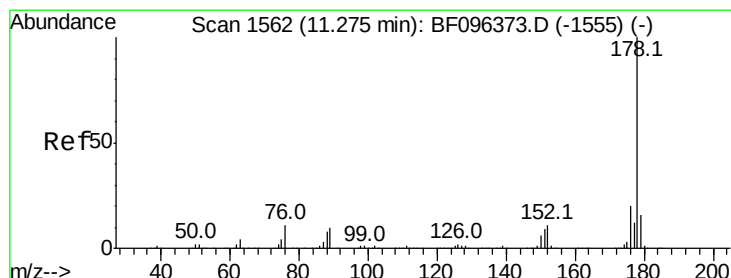
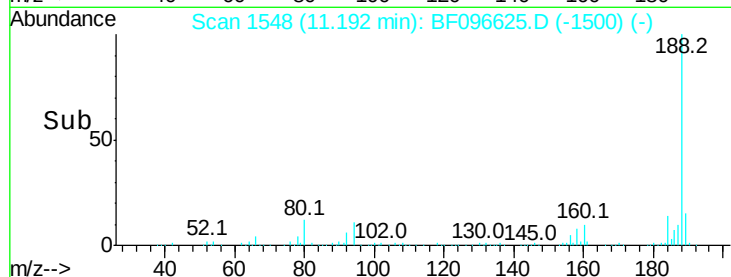
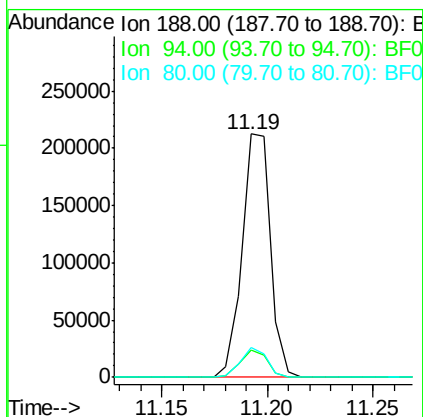
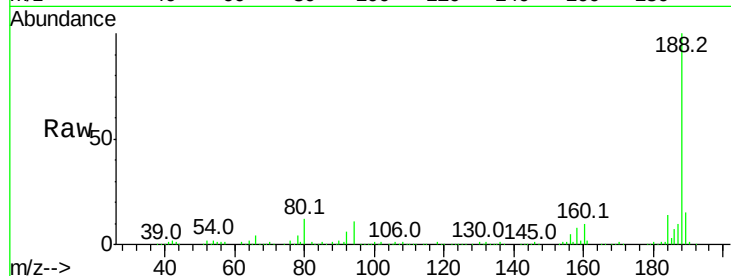
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 1548
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
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HR-06-070617-A

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.0	9.4	14.2
80	12.4	10.2	15.2

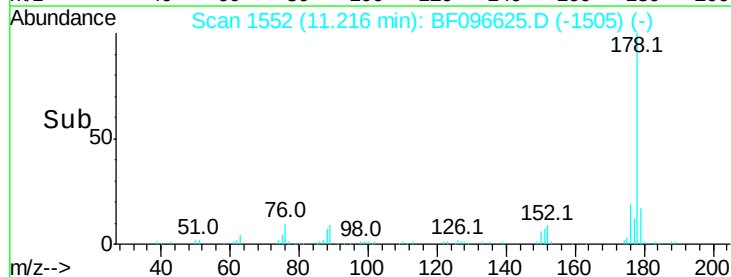
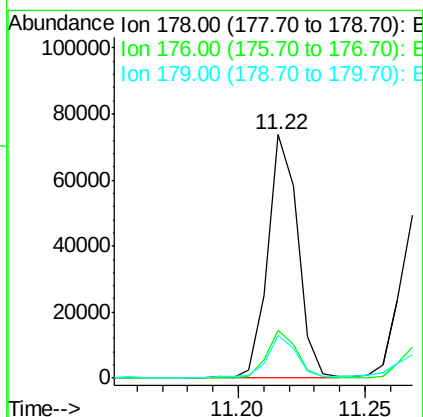
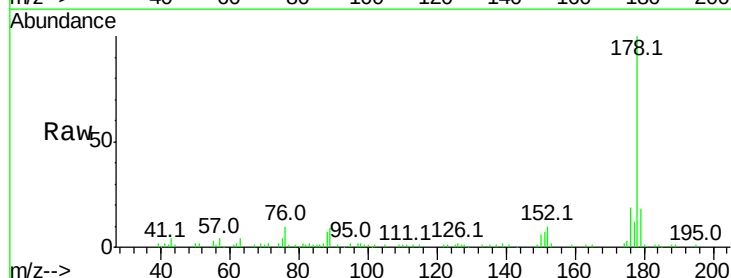
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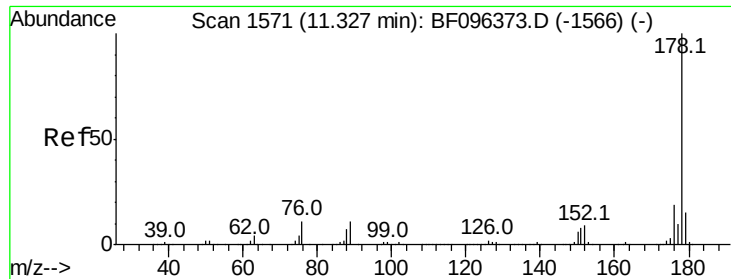
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#70
Phenanthrene
Concen: 5.76 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.4	16.2	24.4
179	17.6	12.6	19.0





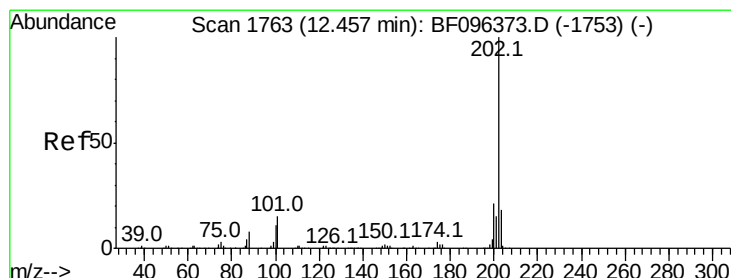
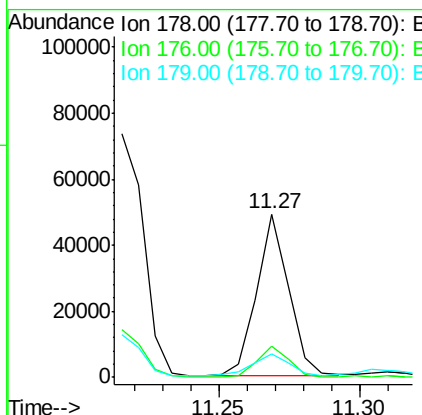
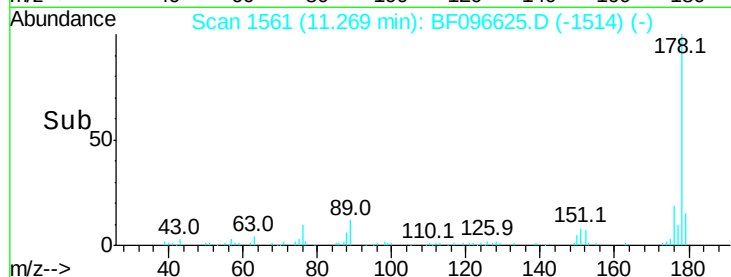
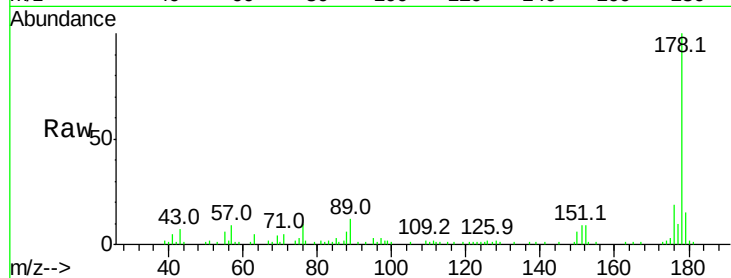
#71
 Anthracene
 Concen: 3.54 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-070617-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	14.6	12.7	19.1

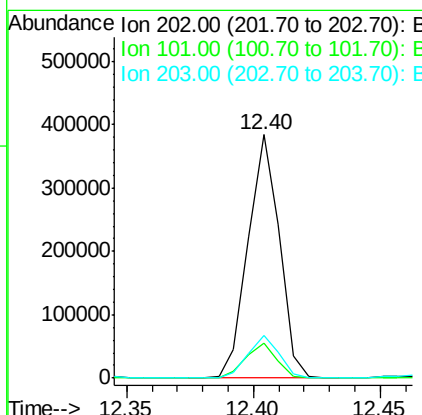
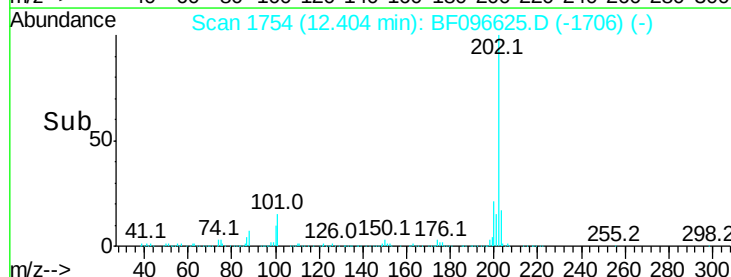
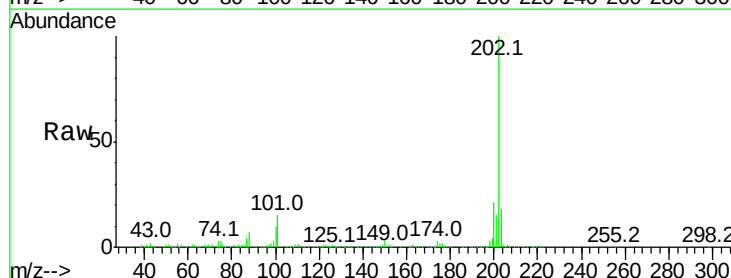
Manual Integrations
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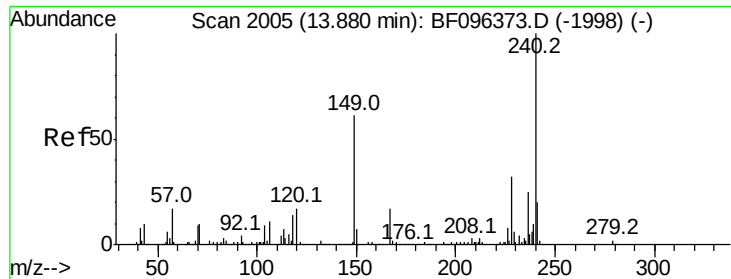
mohammad
 7/11/2017 1:35:40 PM



#74
 Fluoranthene
 Concen: 31.63 ng
 RT: 12.40 min Scan# 1754
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.5	0.0	33.2
203	17.6	0.0	38.1





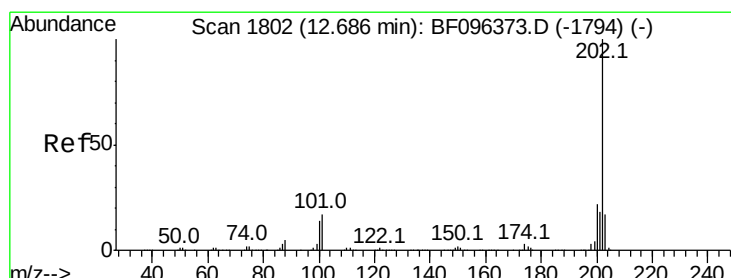
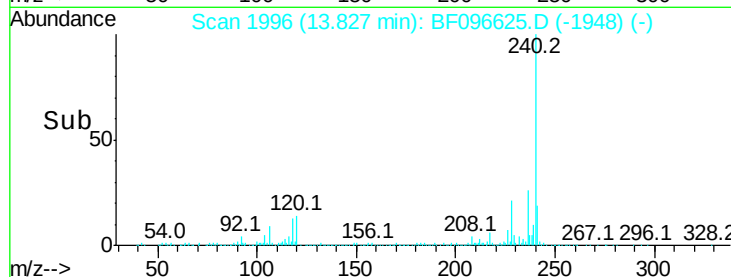
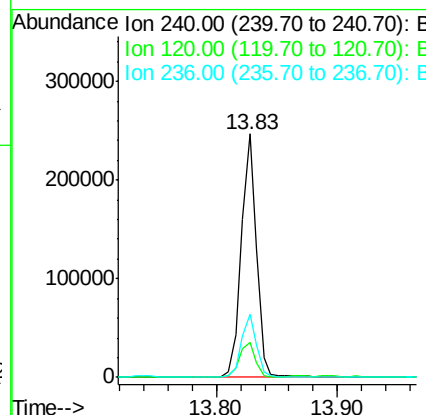
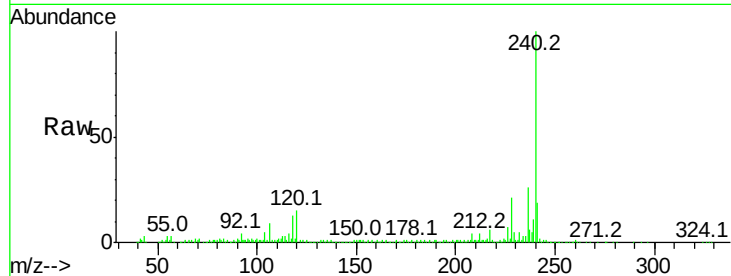
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
HR-06-070617-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.5	5.8	8.8#
236	25.7	20.5	30.7

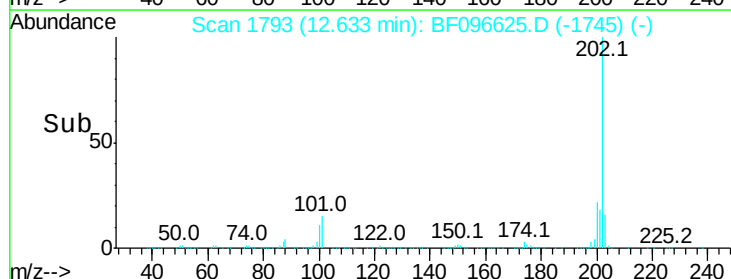
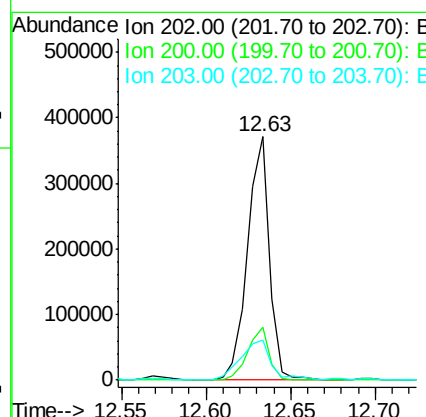
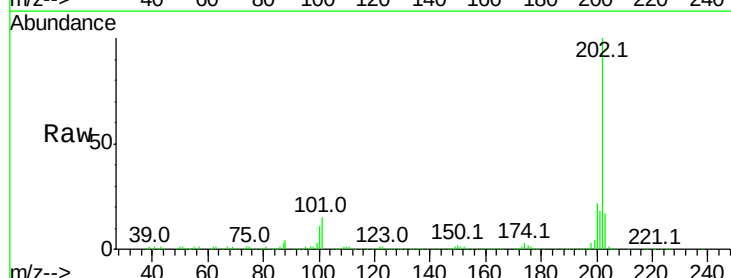
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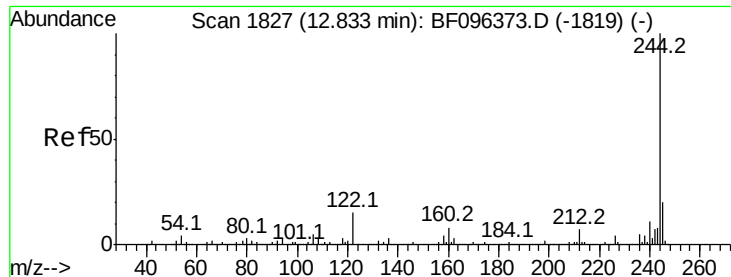
mohammad
7/11/2017 1:35:40 PM



#77
Pyrene
Concen: 19.04 ng
RT: 12.63 min Scan# 1793
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	16.6	14.4	21.6





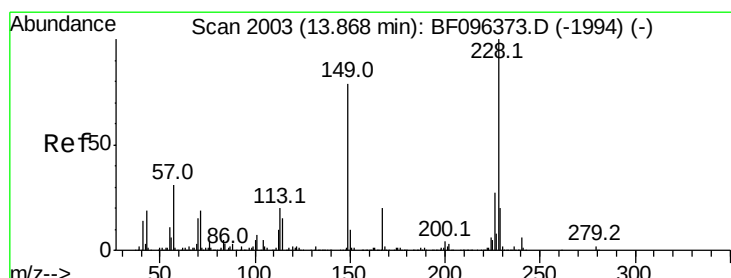
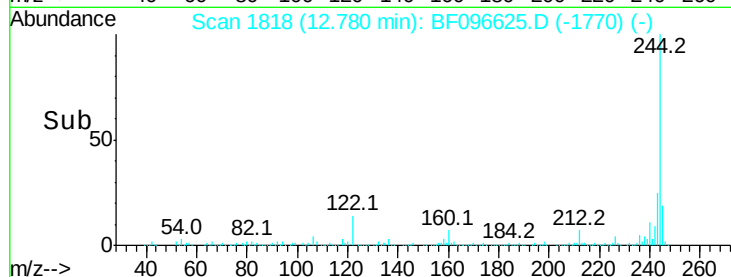
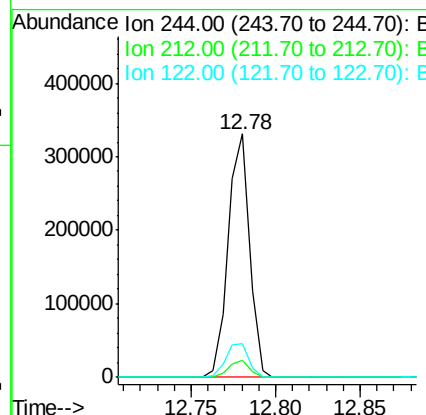
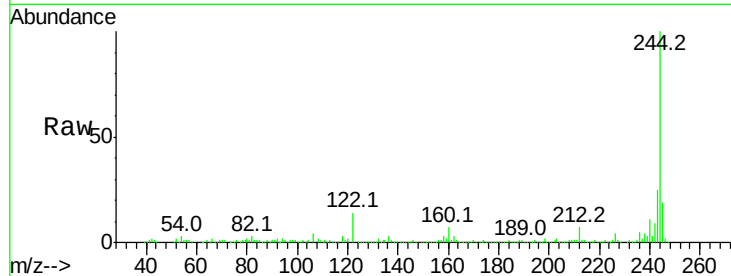
#78
 Terphenyl-d14
 Concen: 28.55 ng
 RT: 12.78 min Scan# 1818
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-070617-A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.8	10.3	15.5

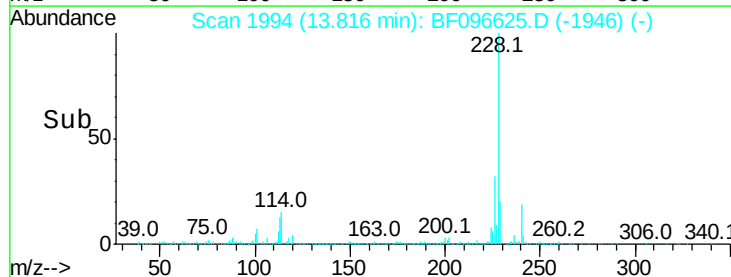
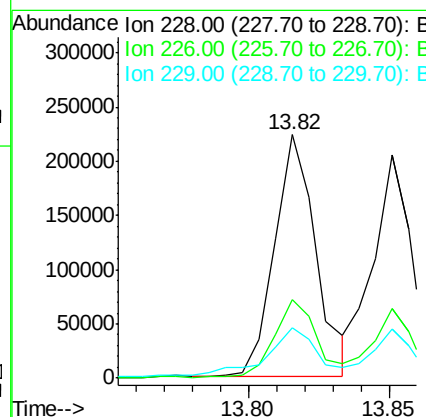
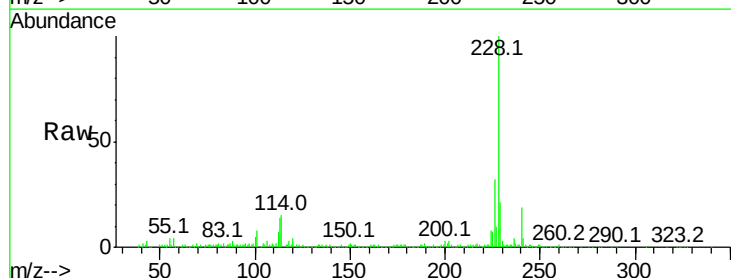
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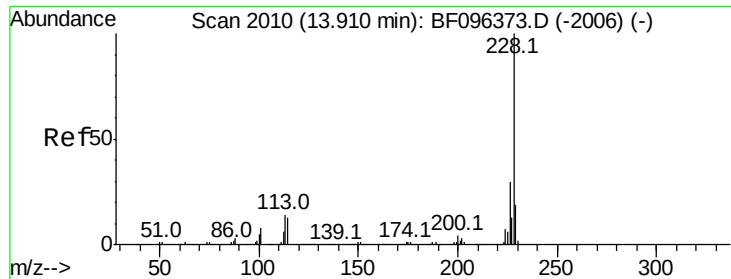
mohammad
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#80
 Benzo(a)anthracene
 Concen: 18.00 ng
 RT: 13.82 min Scan# 1994
 Delta R.T. -0.02 min
 Lab File: BF096625.D
 Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	22.6	33.8
229	20.8	16.3	24.5





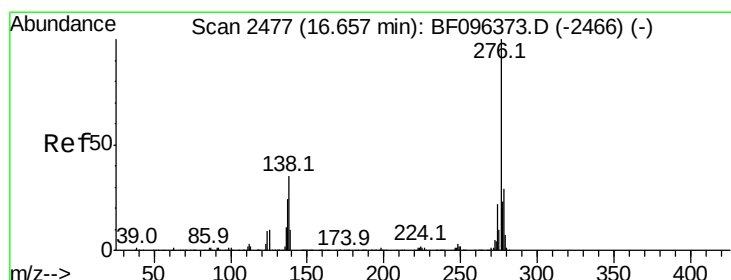
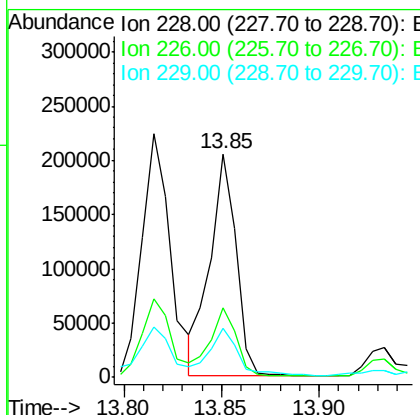
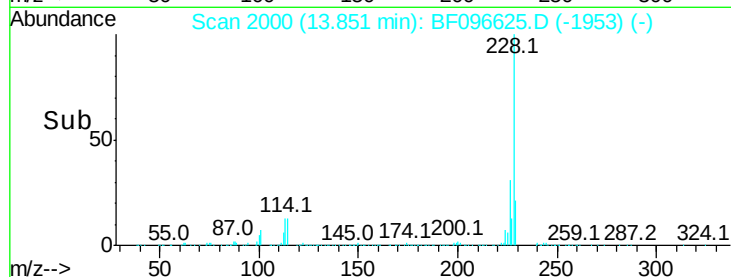
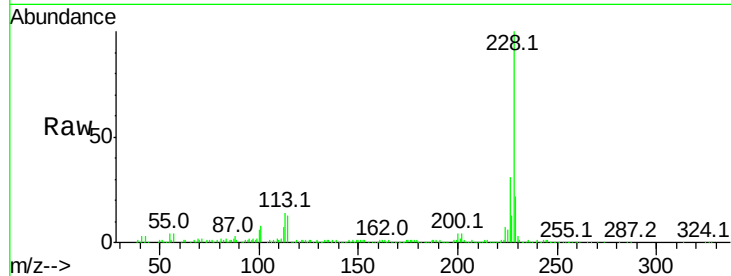
#82
Chrysene
Concen: 14.54 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
HR-06-070617-A

Tot Ion	Ratio	Resp	Lower	Upper
228	100	192888		
226	30.9		24.9	37.3
229	21.9		15.8	23.6

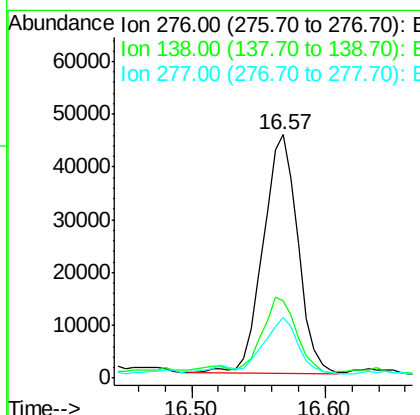
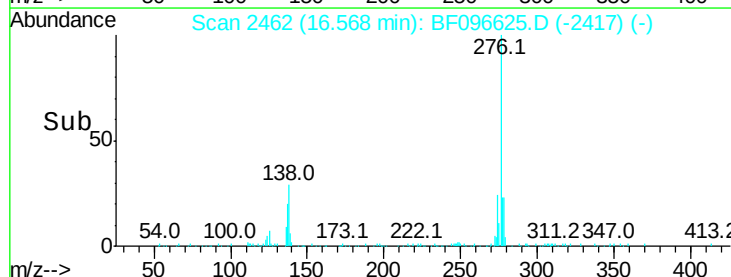
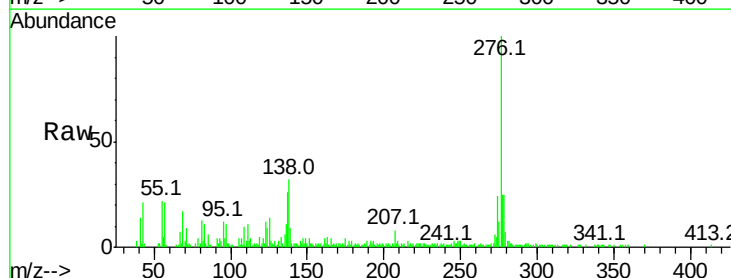
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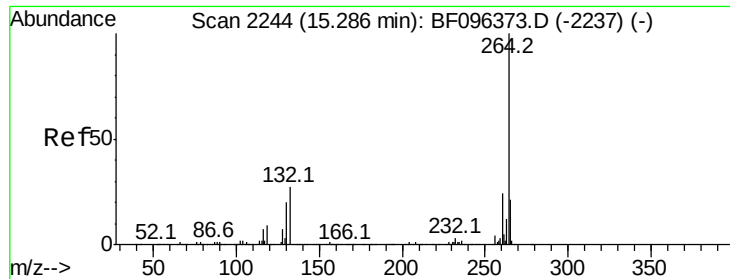
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.81 ng
RT: 16.57 min Scan# 2462
Delta R.T. -0.04 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	81749		
138	30.4		27.8	41.6
277	23.1		20.2	30.4





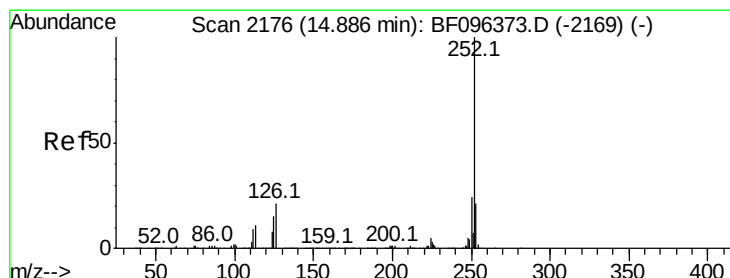
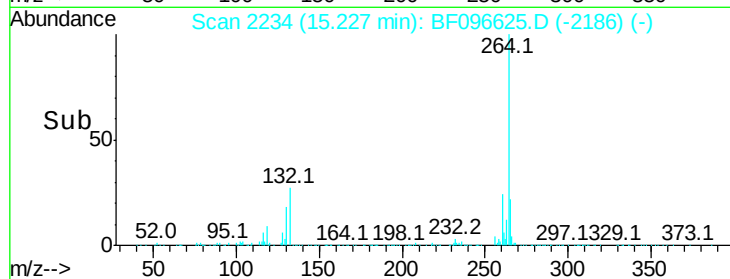
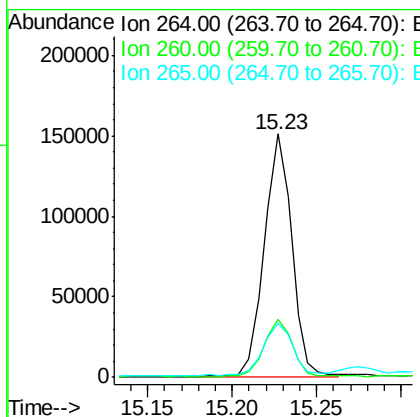
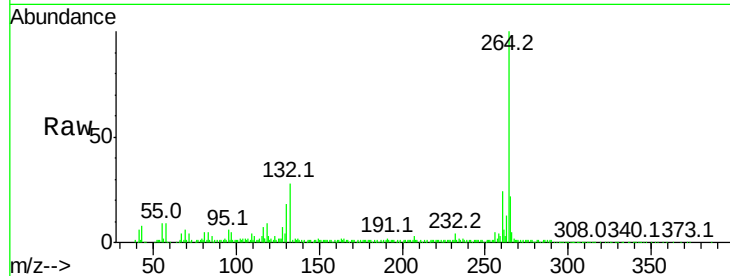
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
HR-06-070617-A

Tot Ion:	264	Resp:	170472
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.5	29.3
265	22.4	17.2	25.8

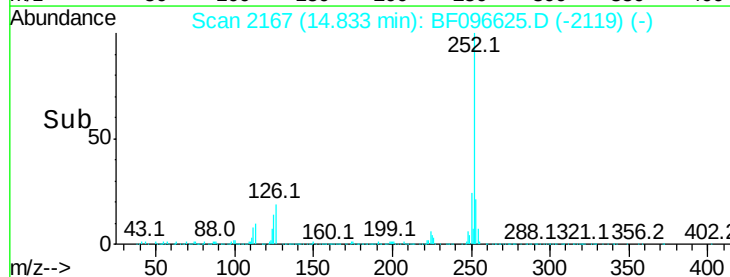
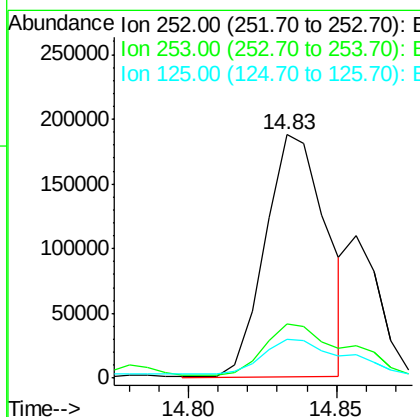
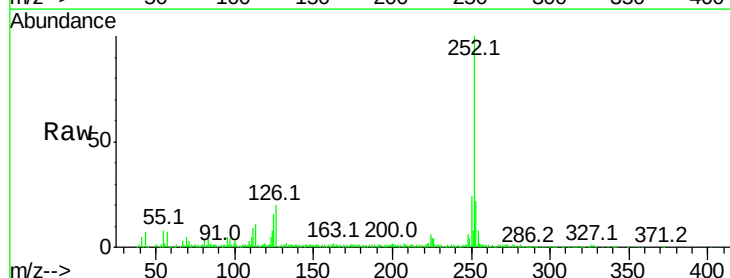
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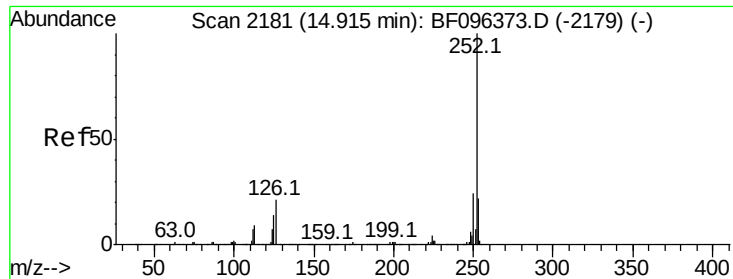
mohammad
7/11/2017 1:35:40 PM



#87
Benzo(b)fluoranthene
Concen: 25.49 ng m
RT: 14.83 min Scan# 2167
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion:	252	Resp:	272250
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.1	27.1
125	16.0	9.8	14.8#





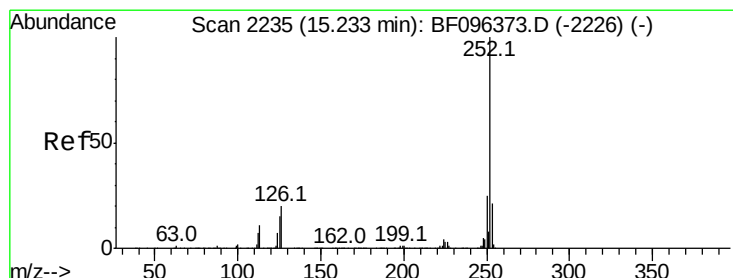
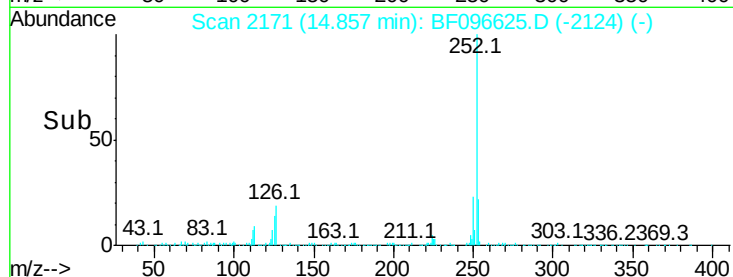
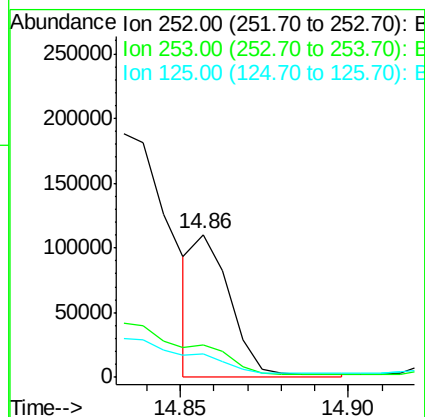
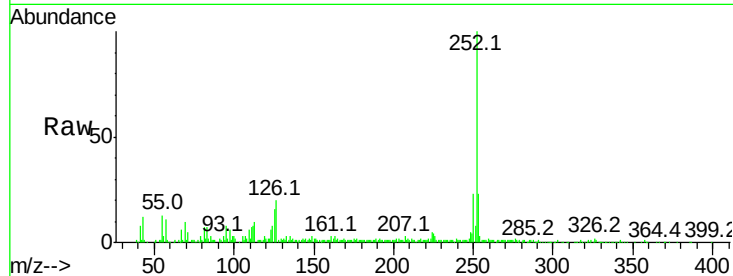
#88
Benzo(k)fluoranthene
Concen: 8.80 ng m
RT: 14.86 min Scan# 2171
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Instrument :
BNA_F
ClientSampleId :
HR-06-070617-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	16.1	13.1	19.7

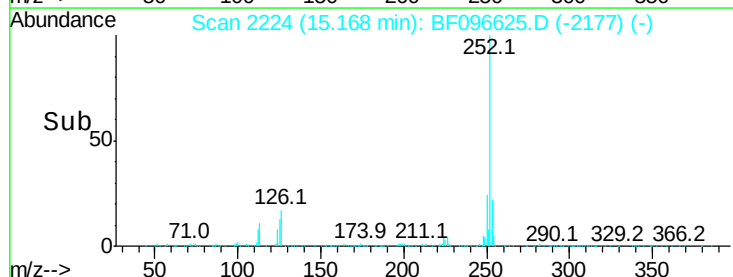
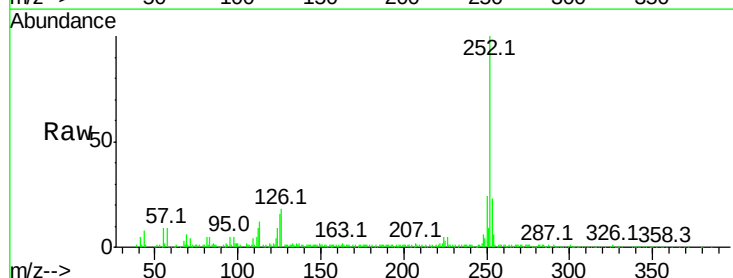
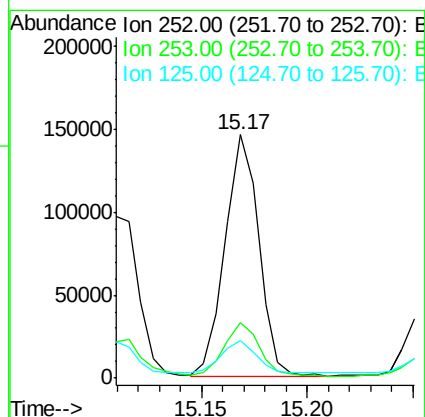
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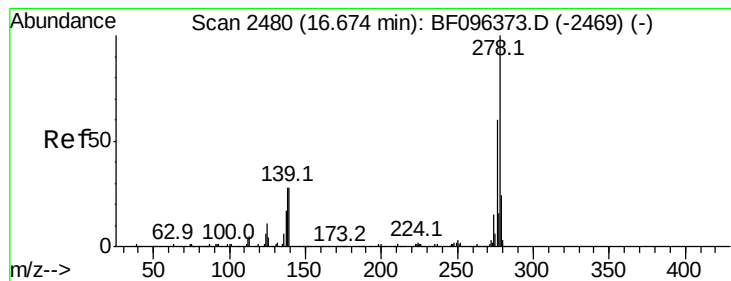
mohammad
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#89
Benzo(a)pyrene
Concen: 17.03 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.02 min
Lab File: BF096625.D
Acq: 11 Jul 2017 2:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.6	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.00 ng

RT: 16.57 min Scan# 2463

Delta R.T. -0.04 min

Lab File: BF096625.D

Acq: 11 Jul 2017 2:24

Instrument :

BNA_F

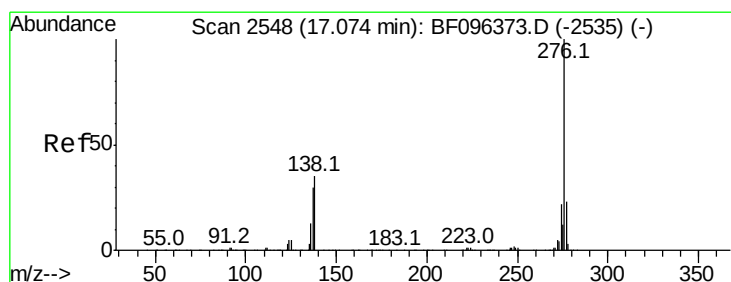
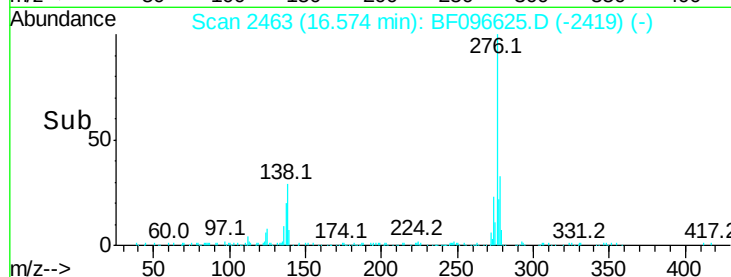
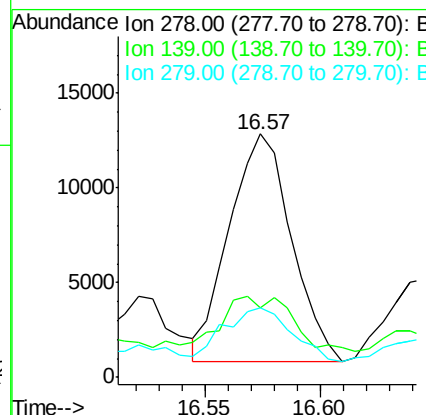
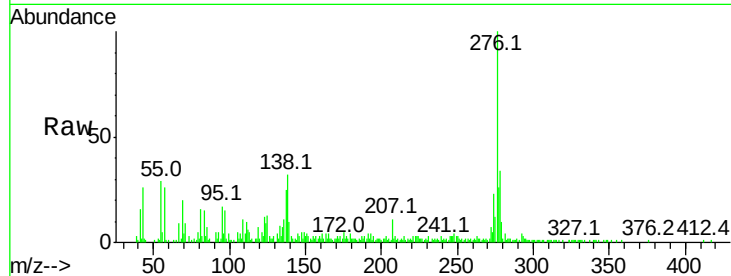
ClientSampleId :

HR-06-070617-A

Tot Ion:	278	Resp:	22479
Ion Ratio	Lower	Upper	
278	100		
139	28.4	16.6	24.8#
279	28.4	19.3	28.9

Manual Integrations
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mohammad
7/11/2017 1:35:40 PM



#91

Benzo(g,h,i)perylene

Concen: 9.91 ng

RT: 16.97 min Scan# 2530

Delta R.T. -0.04 min

Lab File: BF096625.D

Acq: 11 Jul 2017 2:24

Tgt Ion:	276	Resp:	77057
Ion Ratio	Lower	Upper	
276	100		
277	25.5	18.6	28.0
138	32.6	25.4	38.0

