

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093260.D
 Acq On : 28 Feb 2017 20:39
 Operator : SJ/MA
 Sample : I2017-13
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK3-10-20170227

Manual Integrations
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Quant Time: Mar 01 02:53:06 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	129872m	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	498769	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	198478	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	315668	20.00	ng	-0.05
75) Chrysene-d12	13.99	240	270720	20.00	ng	-0.03
86) Perylene-d12	15.40	264	192776	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	949216	125.39	ng	-0.03
7) Phenol-d6	6.46	99	1199119	123.11	ng	-0.02
23) Nitrobenzene-d5	7.38	82	663814	74.11	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	173821	121.09	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	1058265	96.60	ng	-0.05
78) Terphenyl-d14	12.92	244	782625	67.93	ng	-0.05
Target Compounds						Qvalue
10) Phenol	6.49	94	76527	6.72	ng	# 68
31) Naphthalene	8.12	128	73676	2.91	ng	98
48) Acenaphthylene	9.71	152	209376	10.78	ng	99
49) Dimethylphthalate	9.57	163	86834	6.50	ng	98
51) Acenaphthene	9.88	154	43463	3.74	ng	95
54) Dibenzofuran	10.05	168	49506	3.19	ng	93
57) Fluorene	10.40	166	71411	5.98	ng	95
70) Phenanthrene	11.36	178	1087476	60.13	ng	99
71) Anthracene	11.41	178	294821	16.23	ng	97
72) Carbazole	11.57	167	99955	5.76	ng	98
74) Fluoranthene	12.56	202	1501683	80.50	ng	98
77) Pyrene	12.78	202	1499138	74.00	ng	99
80) Benzo(a)anthracene	13.97	228	812130	49.05	ng	96
82) Chrysene	14.01	228	752970m	48.57	ng	
85) Indeno(1,2,3-cd)pyrene	16.81	276	245335	20.43	ng	97
87) Benzo(b)fluoranthene	15.00	252	647073m	51.00	ng	
88) Benzo(k)fluoranthene	15.01	252	247775m	22.62	ng	
89) Benzo(a)pyrene	15.35	252	444845	40.53	ng	# 95
90) Dibenzo(a,h)anthracene	16.80	278	71914m	8.11	ng	
91) Benzo(g,h,i)perylene	17.23	276	248894	27.77	ng	# 93

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

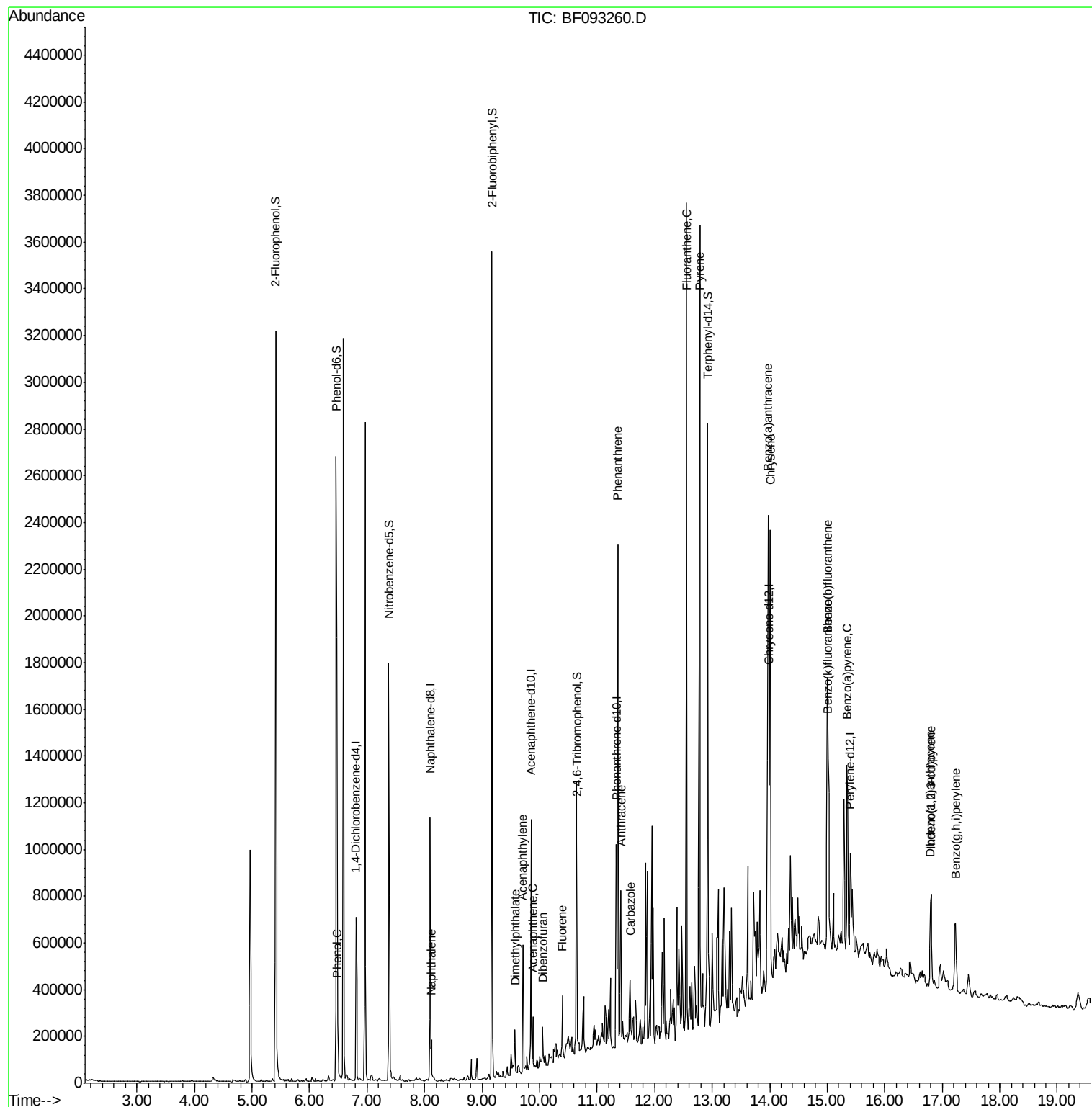
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
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ALS Vial : 23 Sample Multiplier: 1

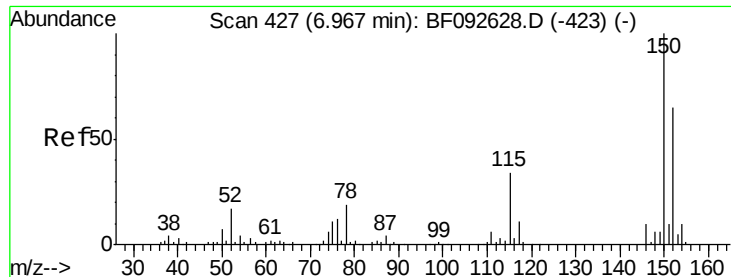
Instrument :
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TK3-10-20170227

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

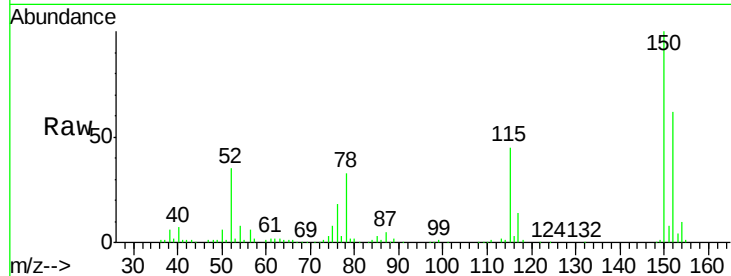
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

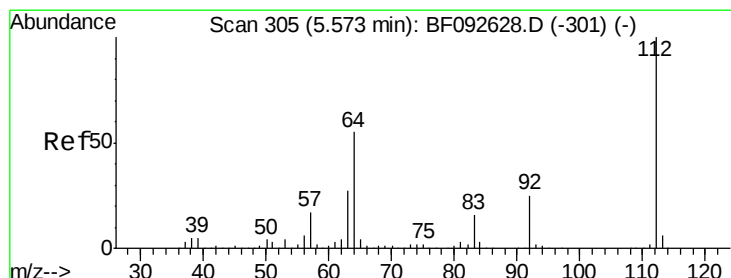
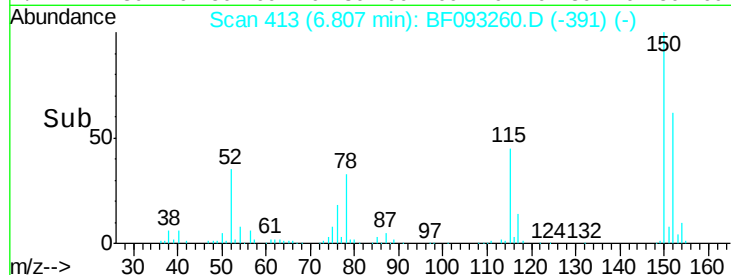
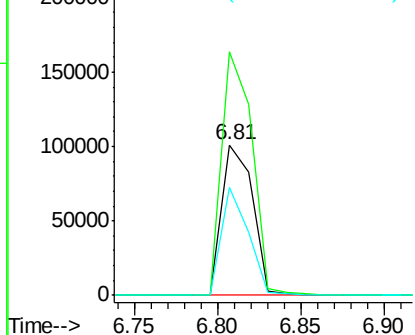
Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.5	124.9	187.3
115	71.9	46.0	69.0

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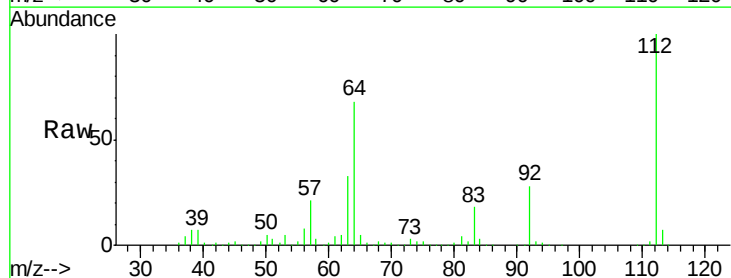
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



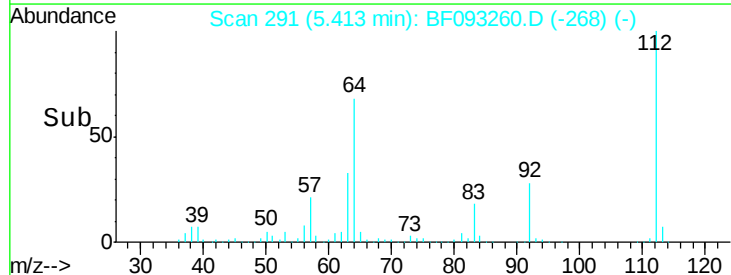
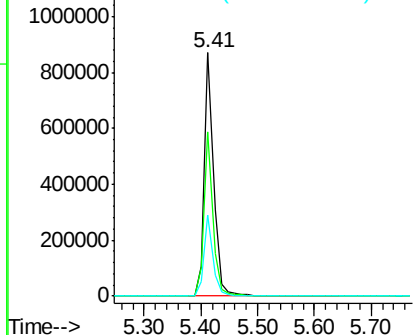
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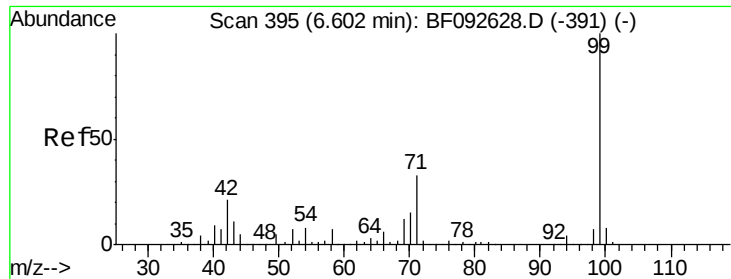
2-Fluorophenol
Concen: 125.39 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	46.1	69.1
63	33.3	23.8	35.6



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: 123.11 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion: 99 Resp: 1199119

Ion Ratio Lower Upper

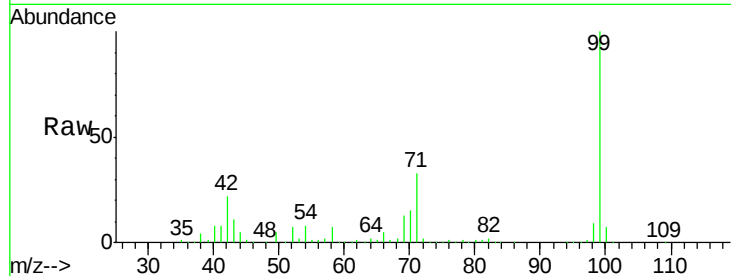
99 100

42 21.5 15.6 23.4

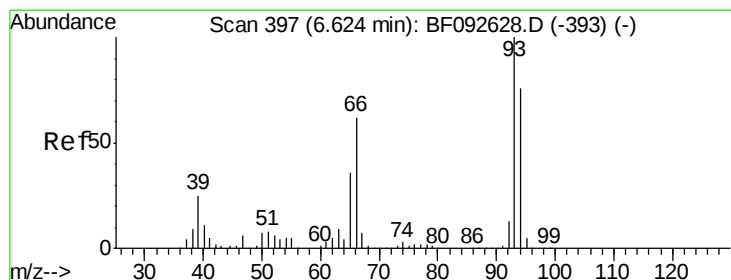
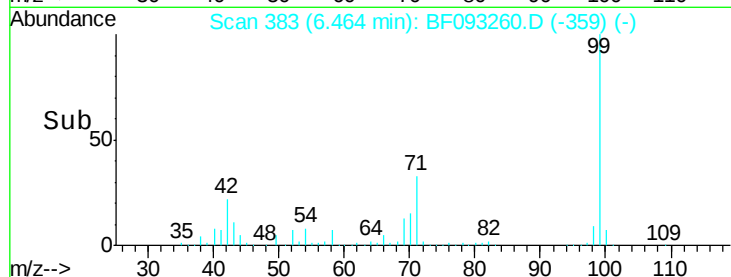
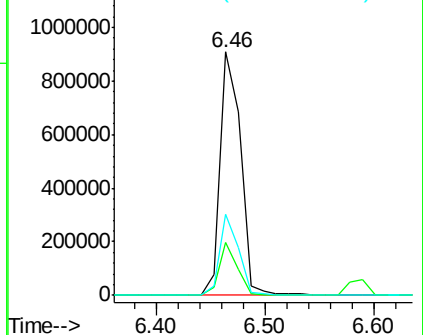
71 33.5 27.5 41.3

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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



#10

Phenol

Concen: 6.72 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

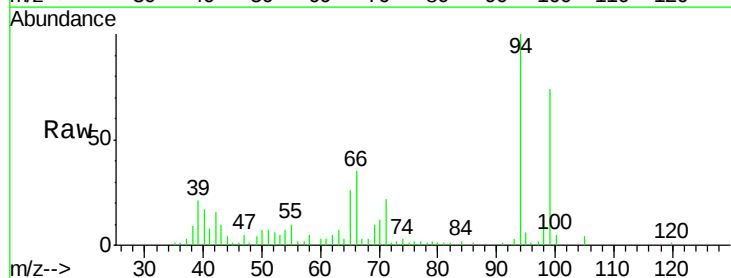
Tgt Ion: 94 Resp: 76527

Ion Ratio Lower Upper

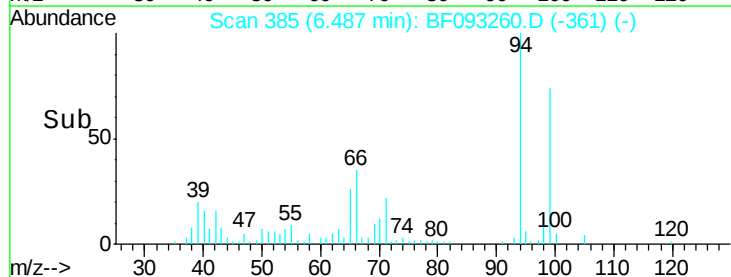
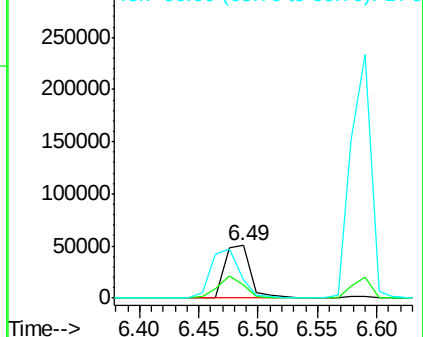
94 100

65 25.8 21.4 61.4

66 34.8 44.0 84.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





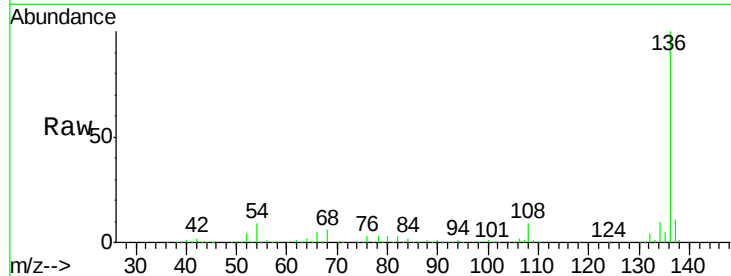
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

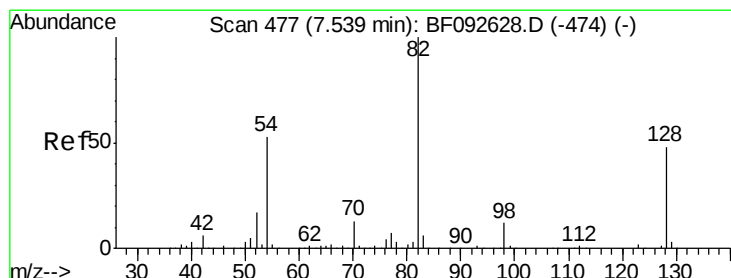
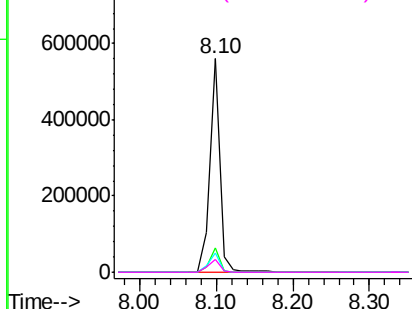
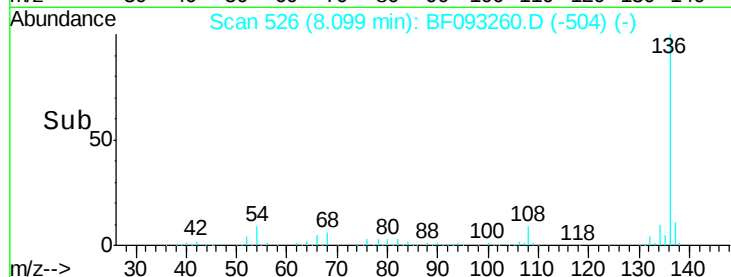
Tgt Ion	Ratio	Resp	Lower	Upper
136	100	498769		
137	11.1	8.4	12.6	
54	9.3	4.5	6.7#	
68	6.2	3.6	5.4#	

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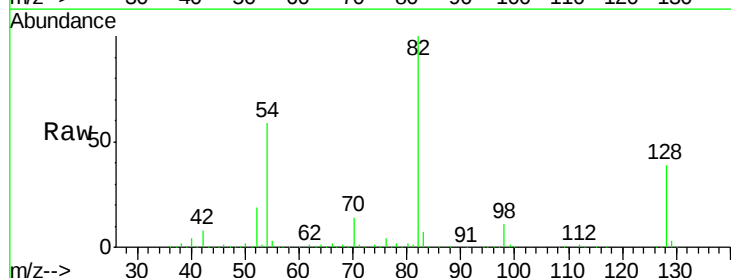


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

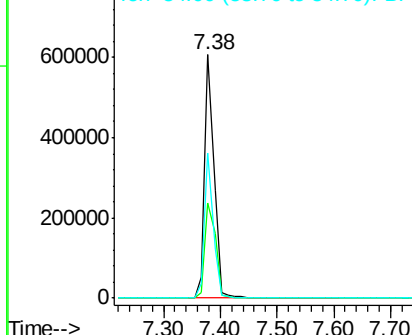
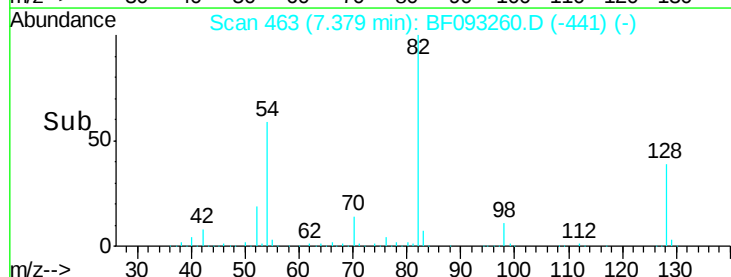


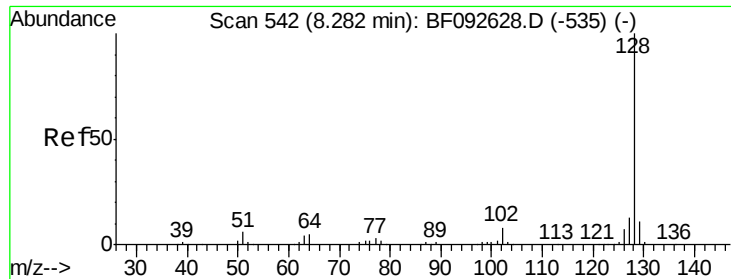
#23
Nitrobenzene-d5
Concen: 74.11 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	663814		
128	39.1	34.6	52.0	
54	59.5	39.5	59.3#	



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





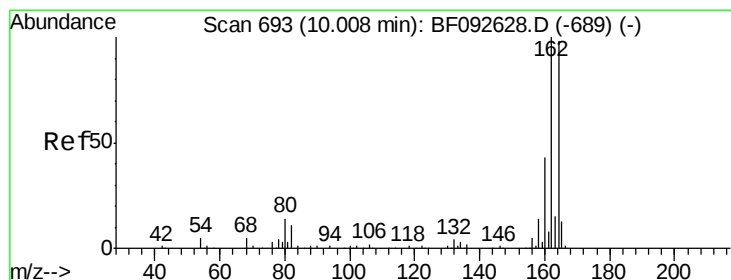
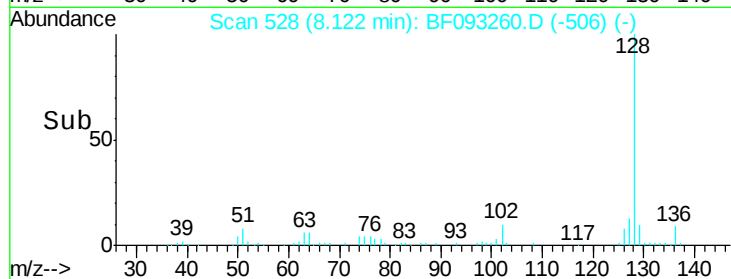
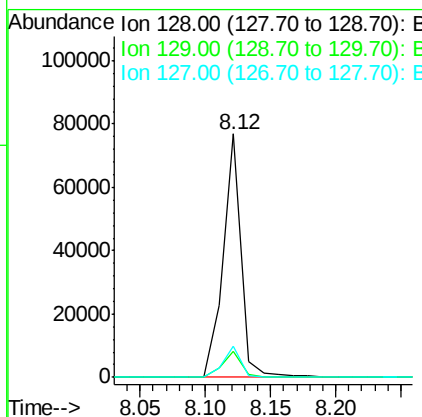
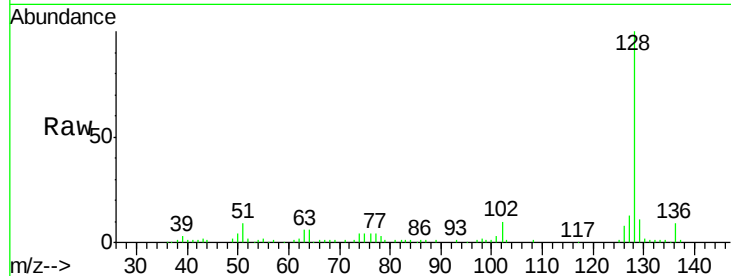
#31
Naphthalene
Concen: 2.91 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.5	14.3
127	12.7	10.8	16.2

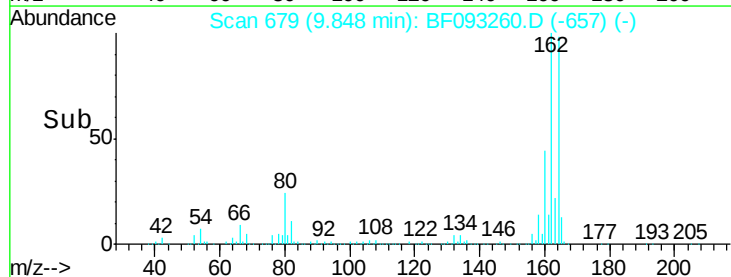
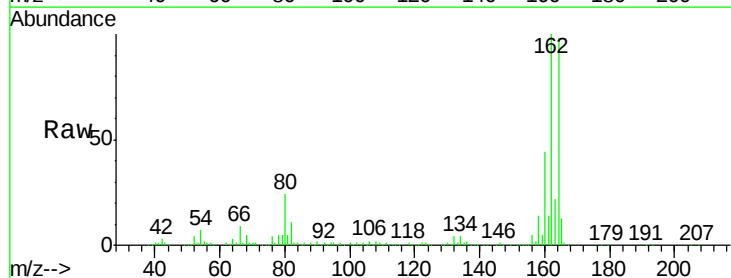
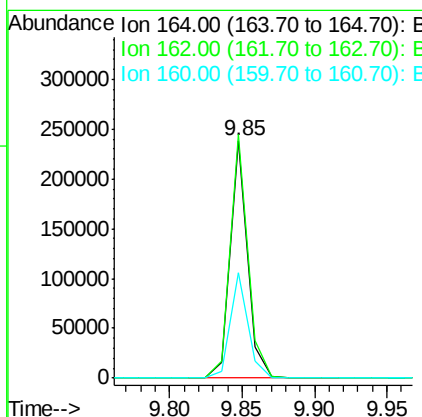
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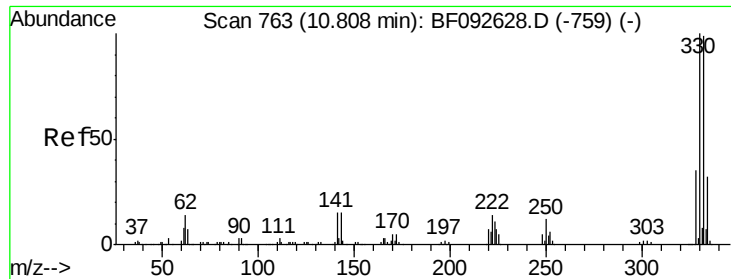
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 679
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.2	120.2
160	44.6	36.9	55.3





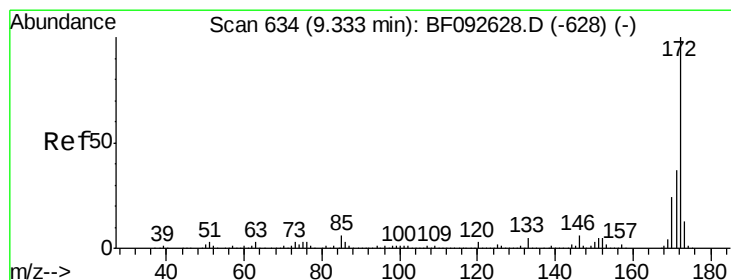
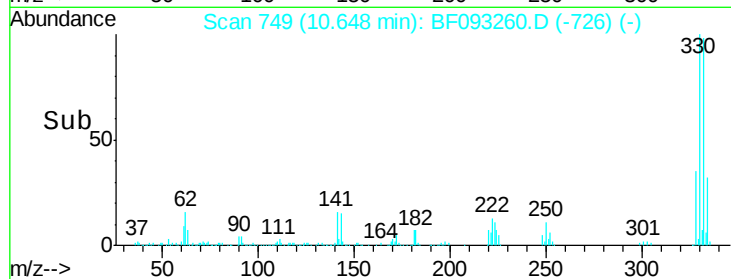
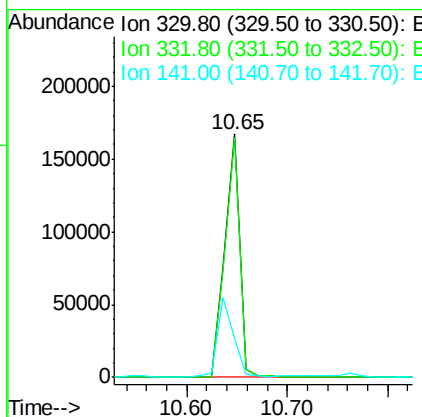
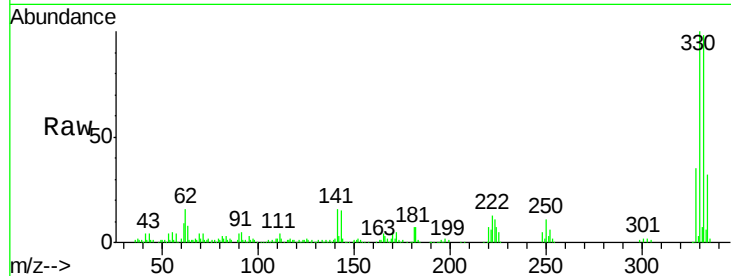
#41
 2,4,6-Tribromophenol
 Concen: 121.09 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.03 min
 Lab File: BF093260.D
 Acq: 28 Feb 2017 20:39

Instrument :
 BNA_F
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Tgt Ion	Ratio	Resp	Lower	Upper
330	100	173821		
332	97.9	77.4	116.2	
141	34.2	34.1	51.1	

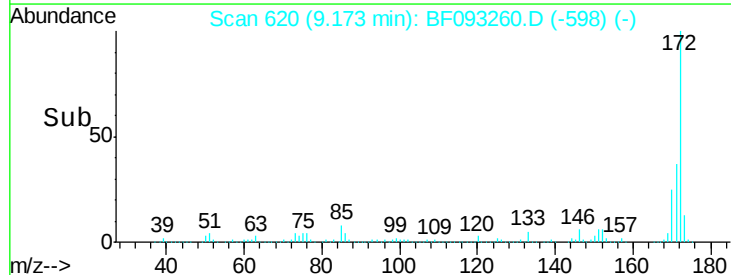
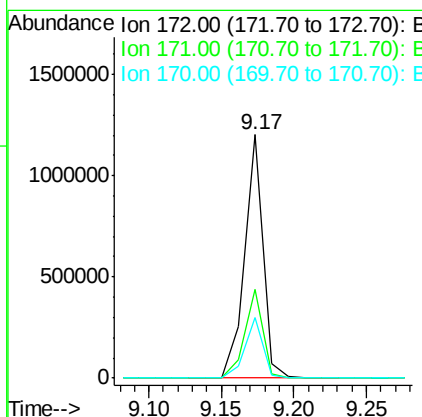
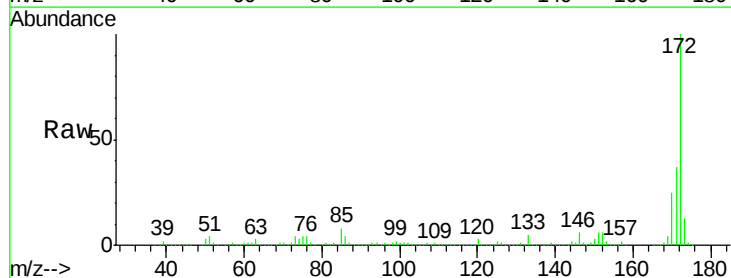
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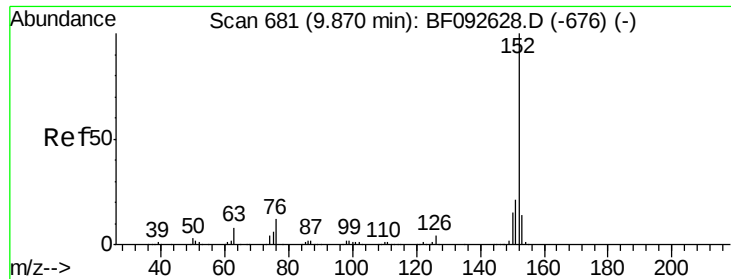
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#44
 2-Fluorobiphenyl
 Concen: 96.60 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093260.D
 Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1058265		
171	36.5	29.4	44.0	
170	24.7	20.2	30.4	





#48

Acenaphthylene

Concen: 10.78 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

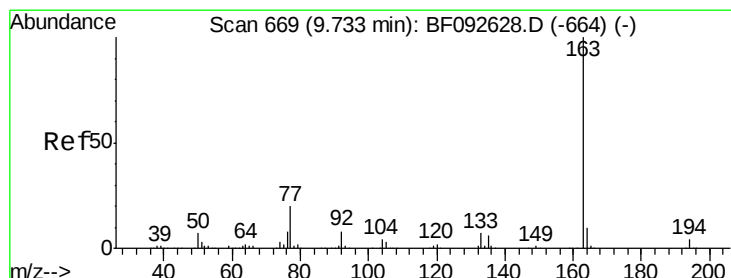
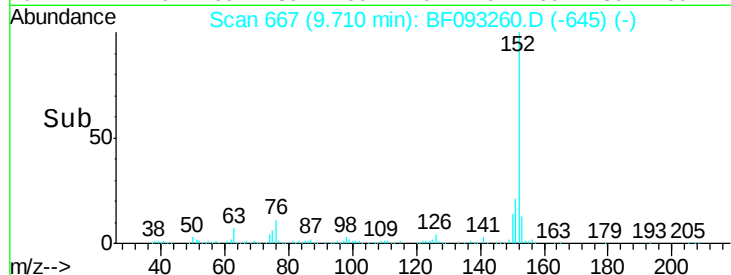
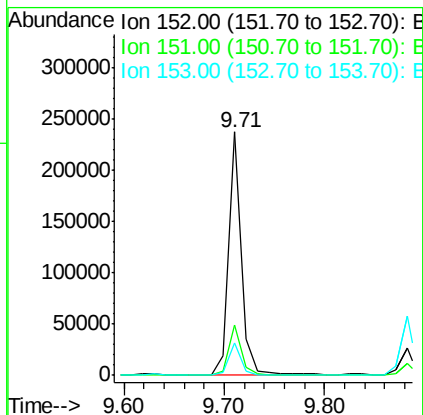
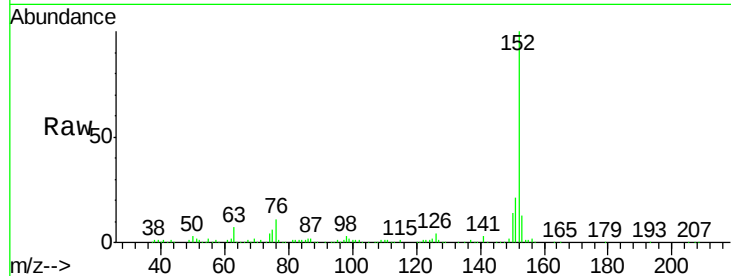
ClientSampleId :

TK3-10-20170227

Tgt Ion:	152	Resp:	209376
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.9	25.3
153	13.5	11.4	17.2

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#49

Dimethylphthalate

Concen: 6.50 ng

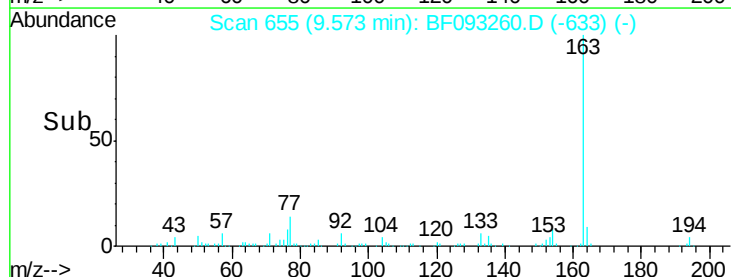
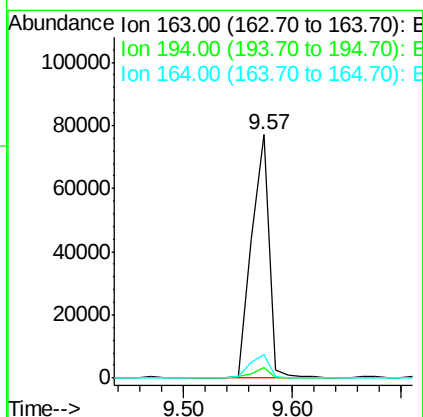
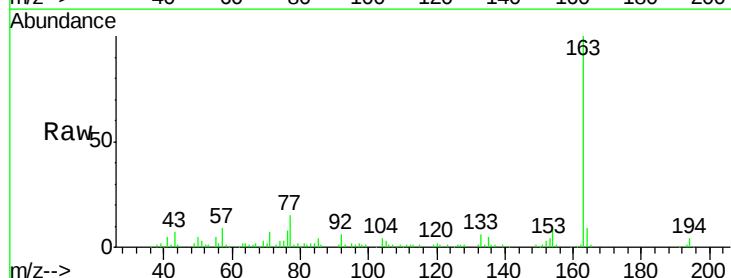
RT: 9.57 min Scan# 655

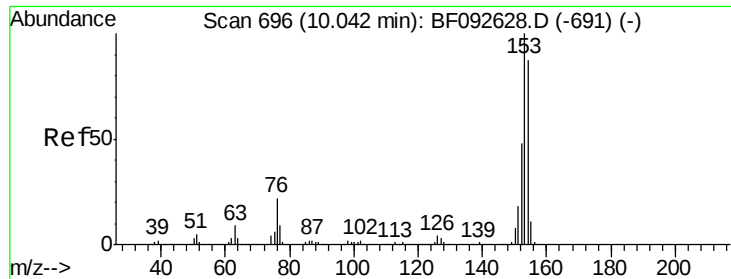
Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:	163	Resp:	86834
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.0	4.4
164	9.4	8.0	12.0





#51

Acenaphthene

Concen: 3.74 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

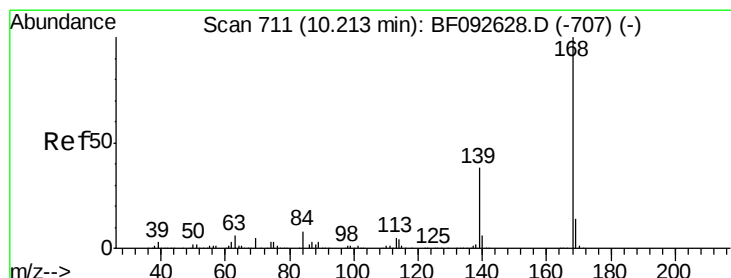
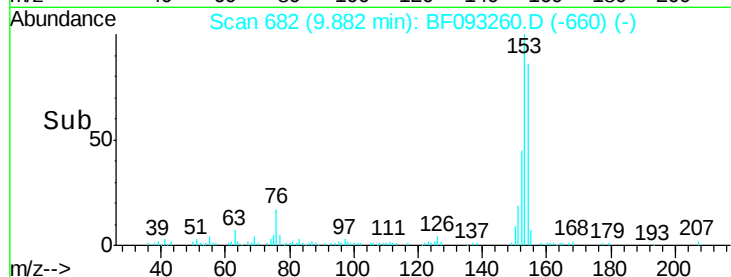
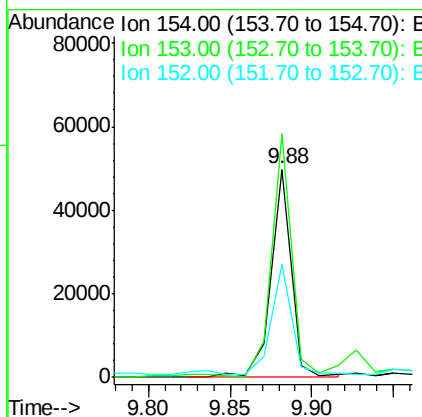
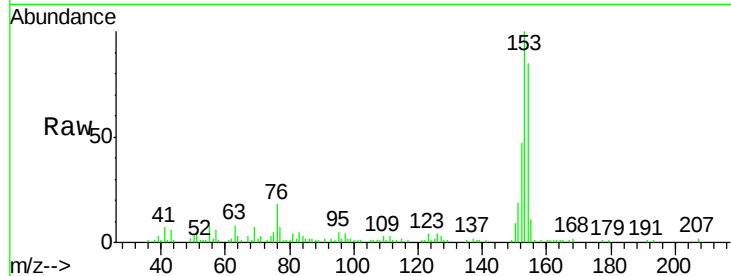
ClientSampleId :

TK3-10-20170227

Tgt Ion:	154	Resp:	43463
Ion Ratio	Lower	Upper	
154	100		
153	117.1	88.6	133.0
152	54.5	41.6	62.4

Manual Integrations
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#54

Dibenzofuran

Concen: 3.19 ng

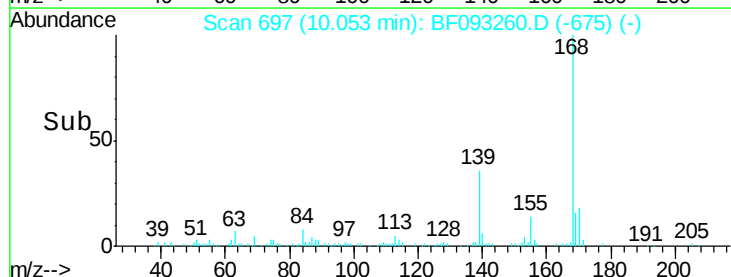
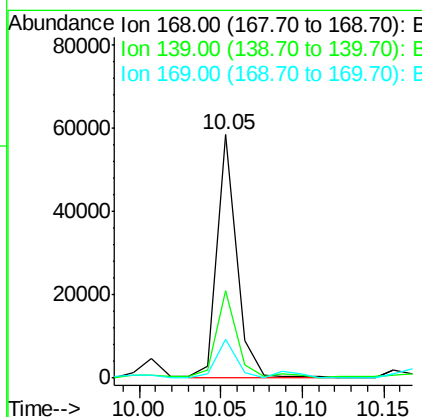
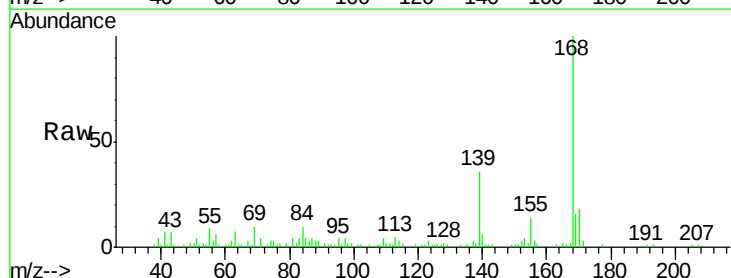
RT: 10.05 min Scan# 697

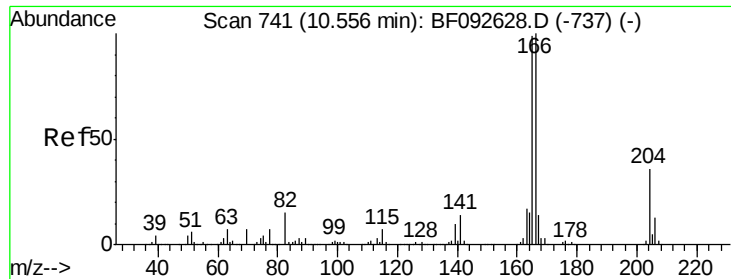
Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:	168	Resp:	49506
Ion Ratio	Lower	Upper	
168	100		
139	36.0	32.6	49.0
169	15.8	11.3	16.9





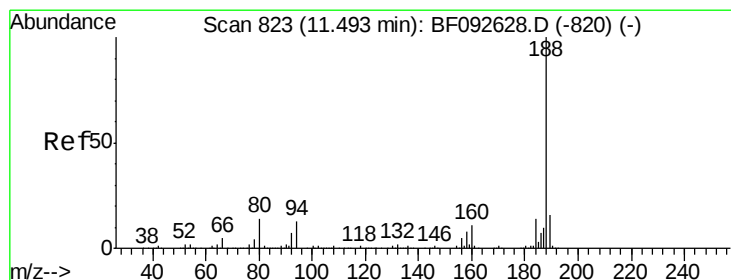
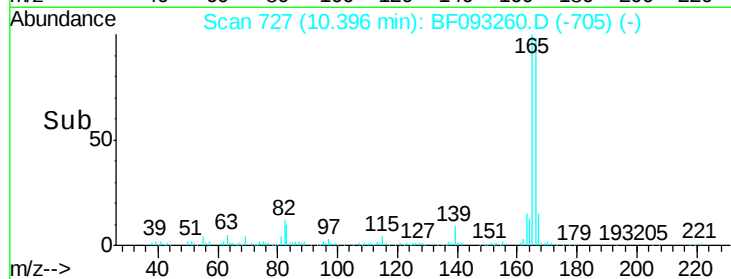
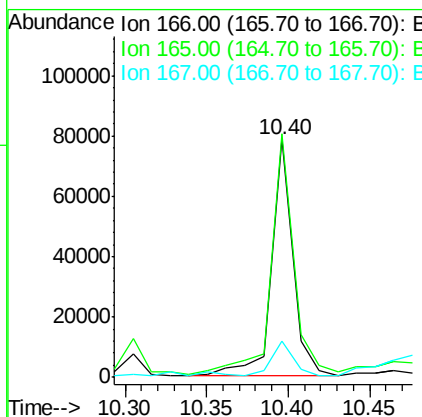
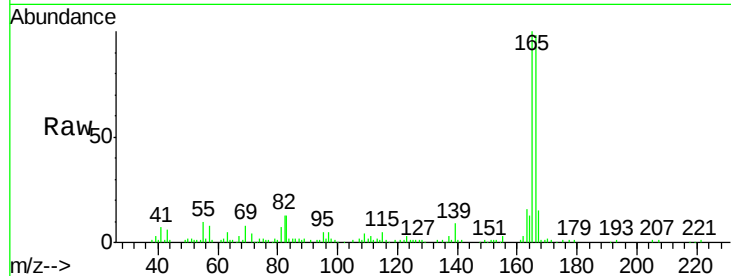
#57
Fluorene
Concen: 5.98 ng
RT: 10.40 min Scan# 727
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	71411		
165	102.2	77.8	116.8	
167	15.1	10.8	16.2	

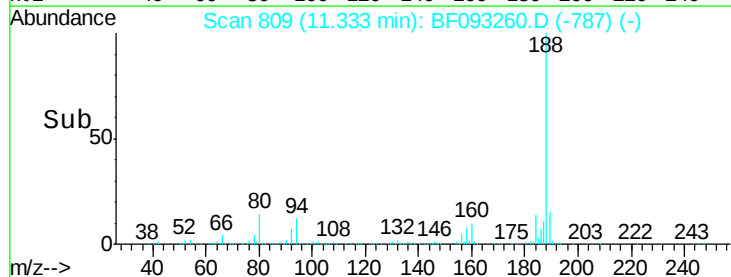
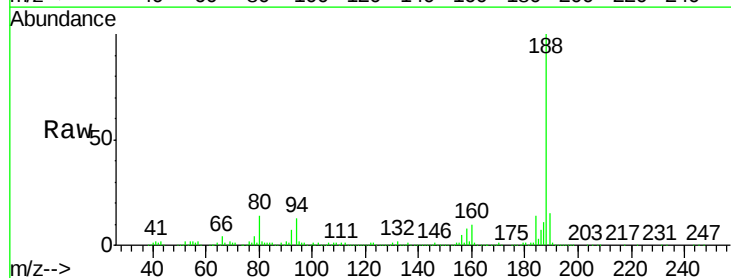
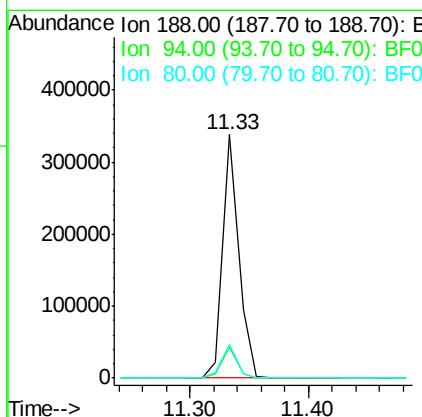
Manual Integrations
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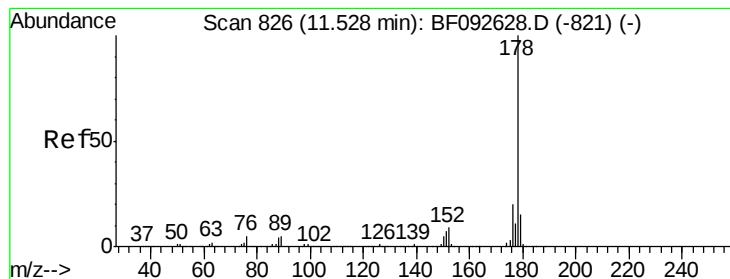
mohammad
3/1/2017 4:06:34 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.33 min Scan# 809
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	315668		
94	12.7	10.0	15.0	
80	13.8	11.2	16.8	





#70

Phenanthrene

Concen: 60.13 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

ClientSampleId :

TK3-10-20170227

Tgt Ion:178 Resp: 1087476

Ion Ratio Lower Upper

178 100

176 19.8 16.6 25.0

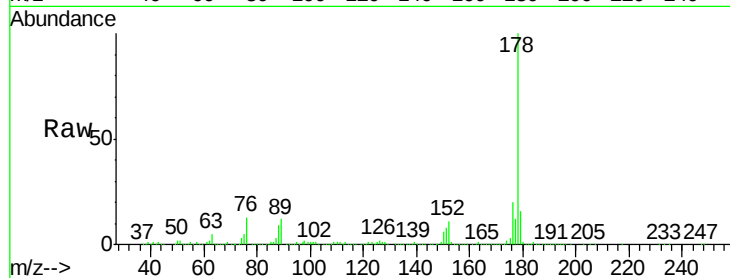
179 15.9 12.8 19.2

Manual Integrations

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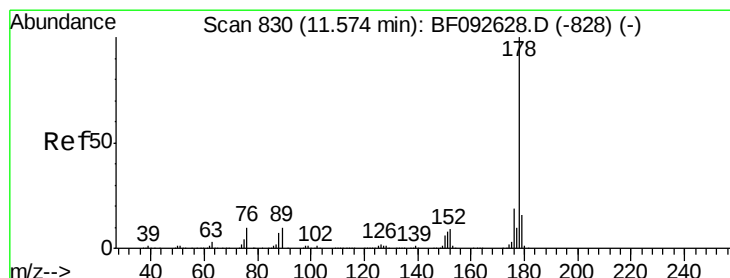
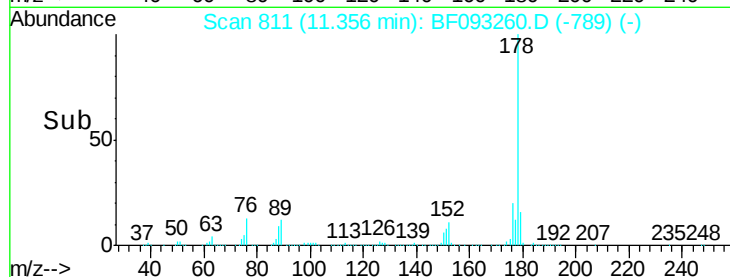
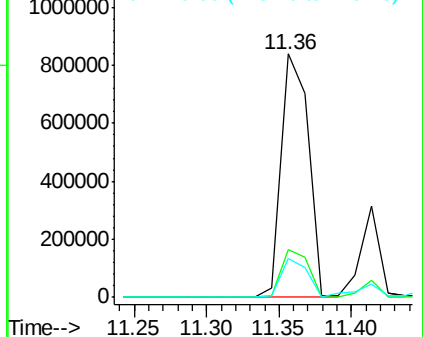
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 16.23 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:178 Resp: 294821

Ion Ratio Lower Upper

178 100

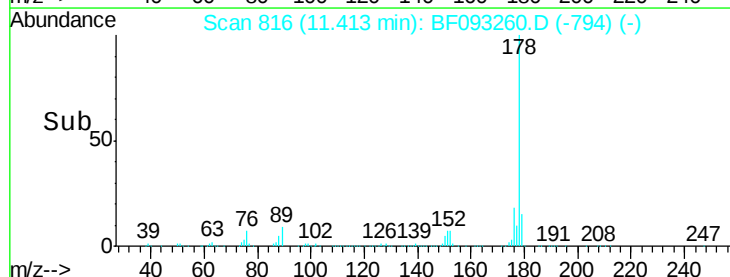
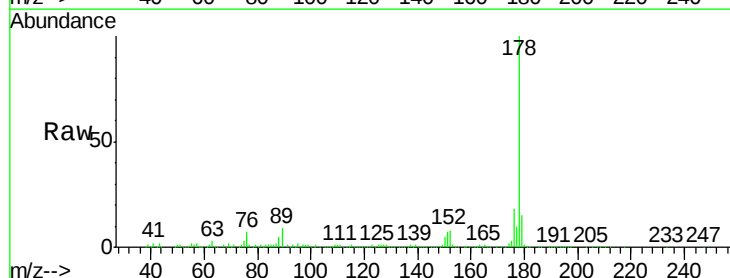
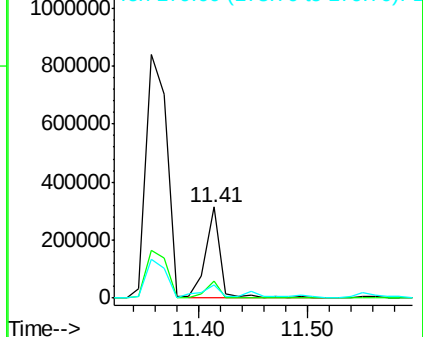
176 18.4 15.9 23.9

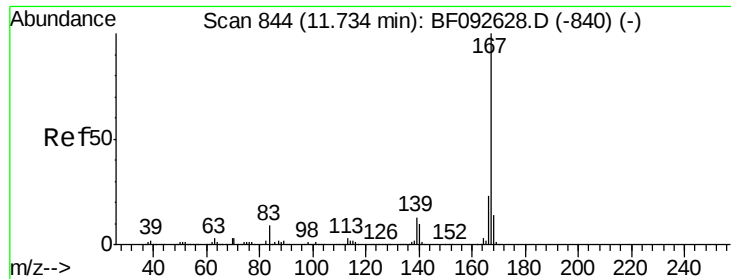
179 15.0 13.2 19.8

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.76 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

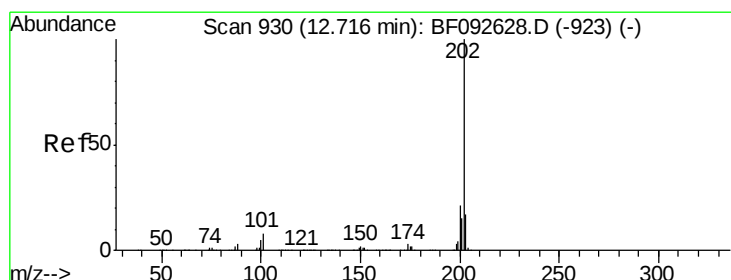
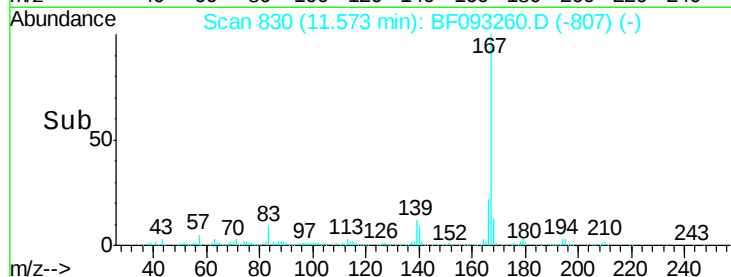
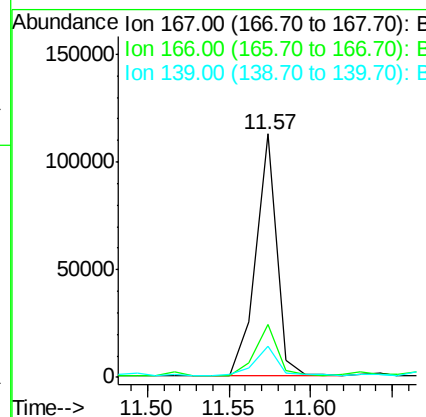
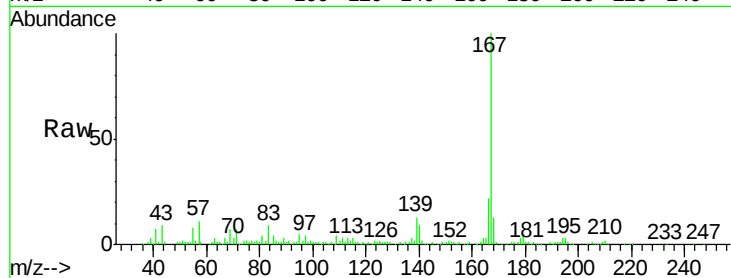
ClientSampleId :

TK3-10-20170227

Tgt Ion:	167	Resp:	99955
Ion Ratio	Lower	Upper	
167	100		
166	21.9	18.2	27.2
139	12.9	11.4	17.2

Manual Integrations
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#74

Fluoranthene

Concen: 80.50 ng

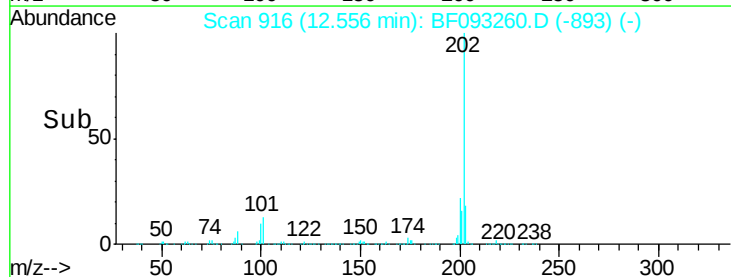
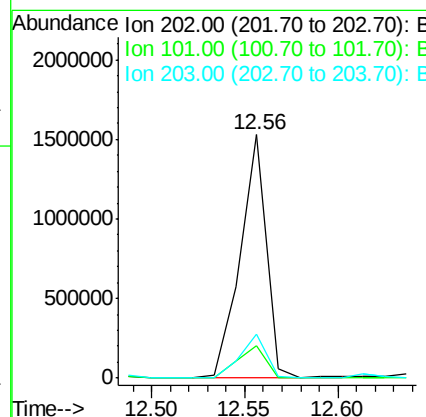
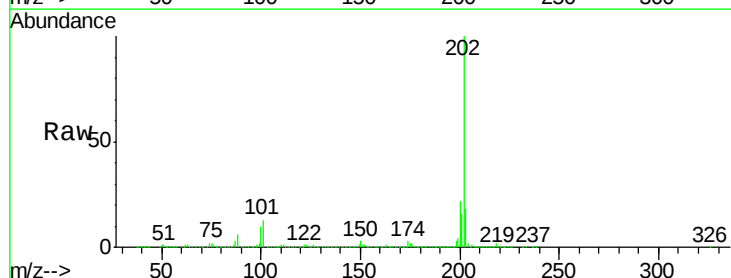
RT: 12.56 min Scan# 916

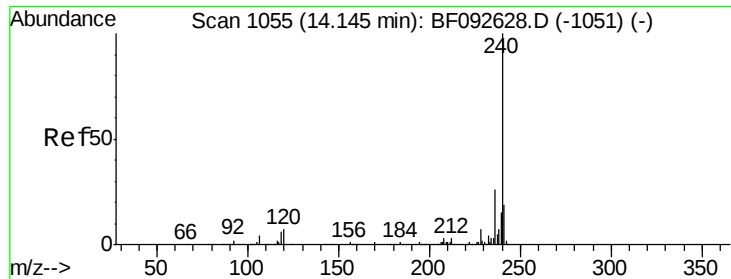
Delta R.T. -0.03 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:	202	Resp:	1501683
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	34.6
203	18.0	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.03 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

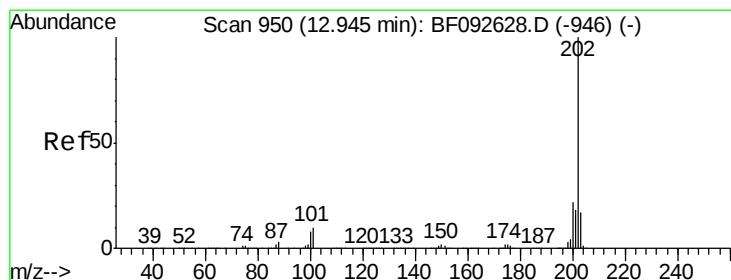
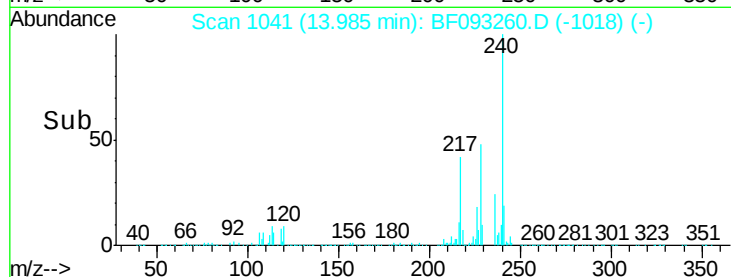
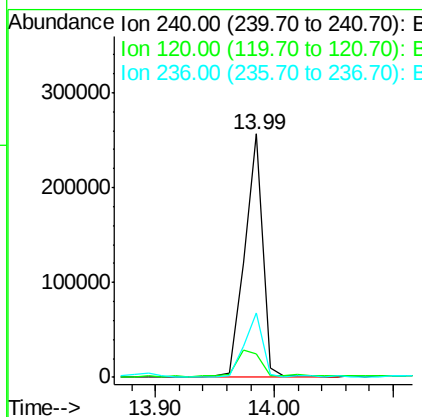
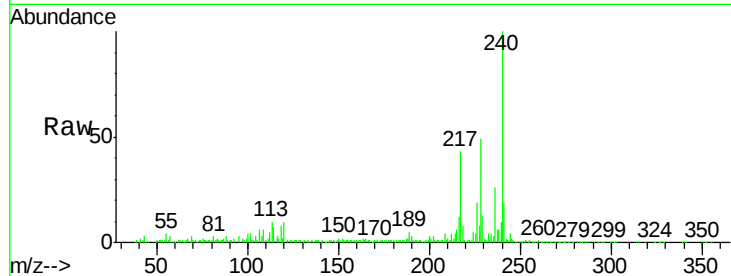
ClientSampleId :

TK3-10-20170227

Tgt Ion:	240	Resp:	270720
Ion Ratio	Lower	Upper	
240	100		
120	9.6	12.9	19.3#
236	26.3	20.9	31.3

Manual Integrations
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#77

Pyrene

Concen: 74.00 ng

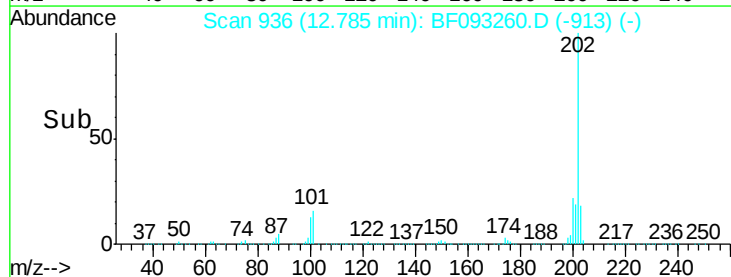
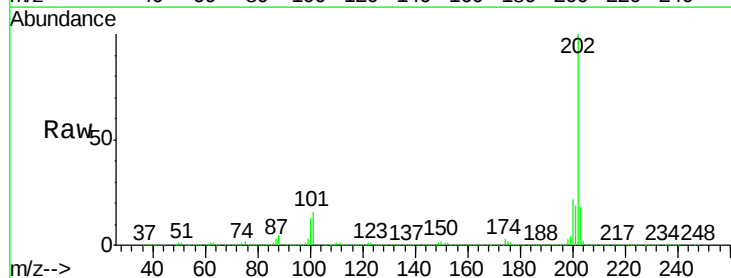
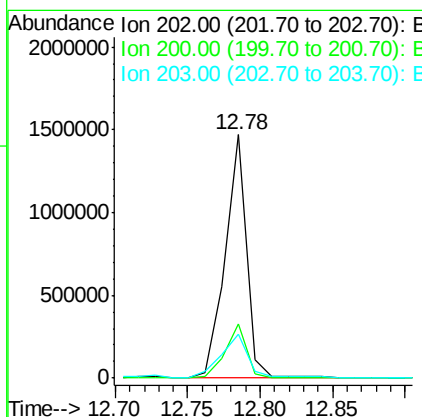
RT: 12.78 min Scan# 936

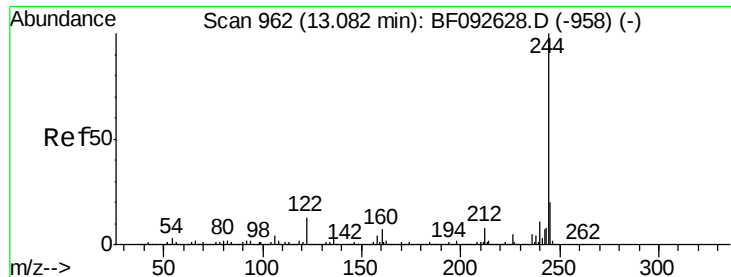
Delta R.T. -0.03 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:	202	Resp:	1499138
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.7	26.5
203	18.1	14.7	22.1





#78

Terphenyl-d14

Concen: 67.93 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

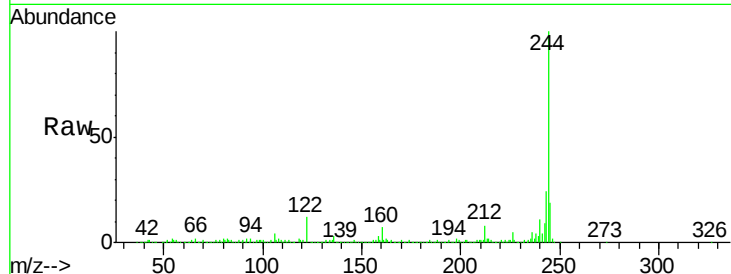
ClientSampleId :

TK3-10-20170227

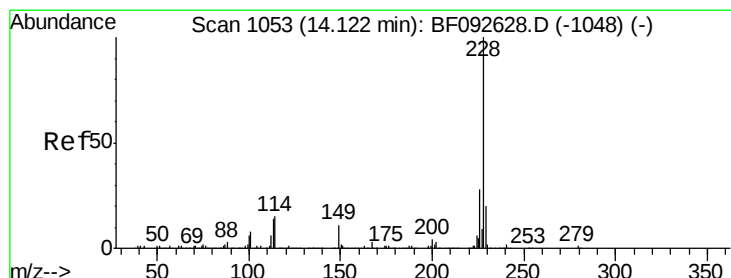
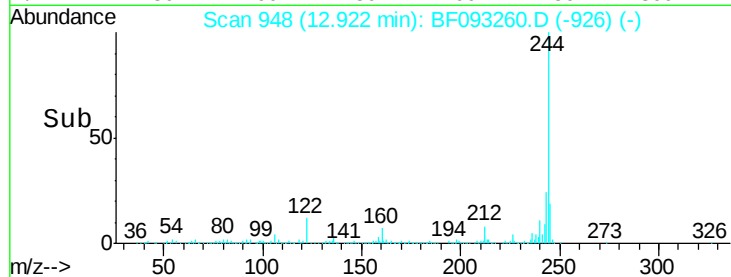
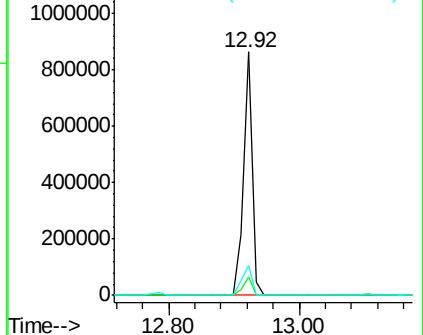
Tgt	Ion	Ratio	Lower	Upper
244	100			
212	7.7	6.2	9.2	
122	12.4	11.4	17.2	

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 49.05 ng

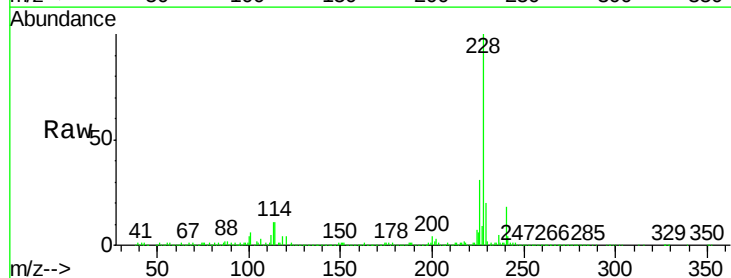
RT: 13.97 min Scan# 1040

Delta R.T. -0.03 min

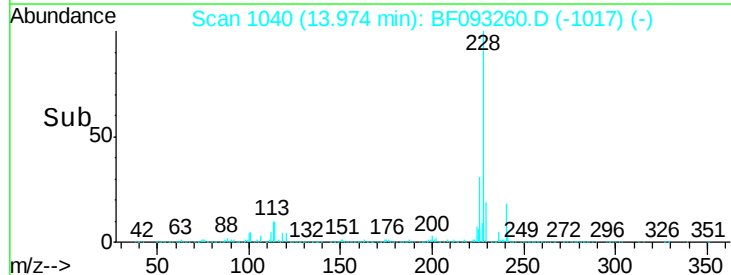
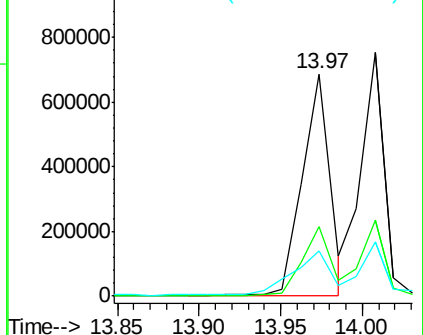
Lab File: BF093260.D

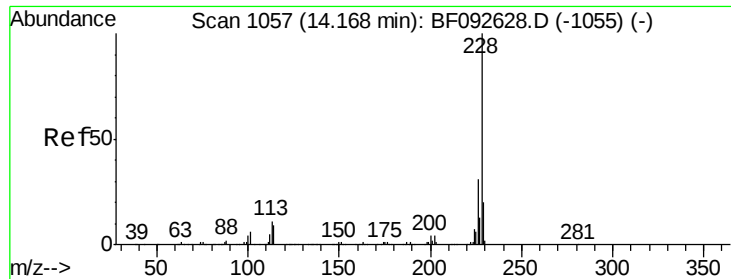
Acq: 28 Feb 2017 20:39

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	31.5	22.4	33.6	
229	20.4	16.2	24.4	



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 48.57 ng m

RT: 14.01 min Scan# 1043

Delta R.T. -0.03 min

Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Instrument :

BNA_F

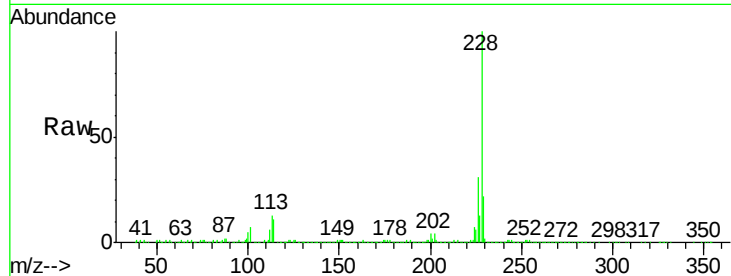
ClientSampleId :

TK3-10-20170227

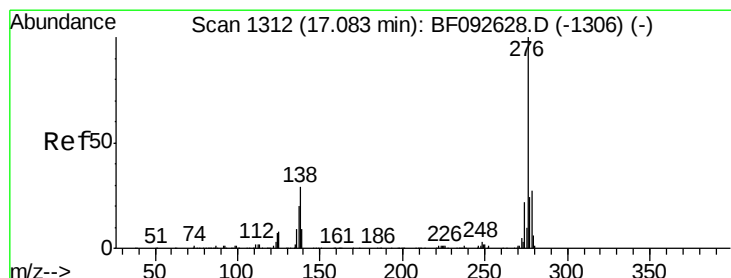
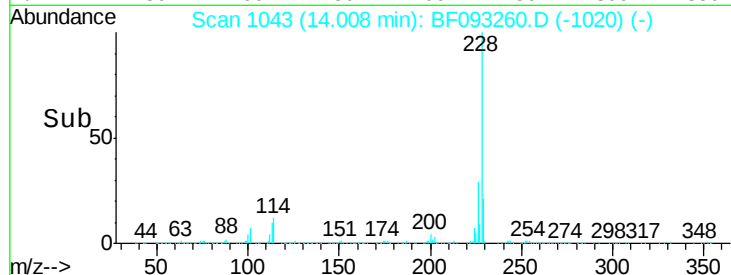
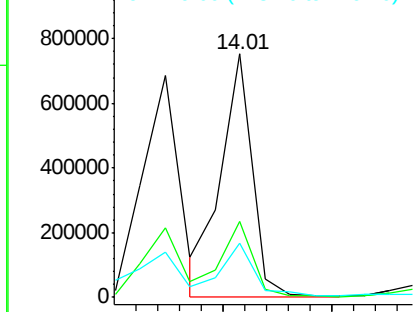
Tgt Ion:	228	Resp:	752970
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.4	38.0
229	22.0	16.2	24.2

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 20.43 ng

RT: 16.81 min Scan# 1288

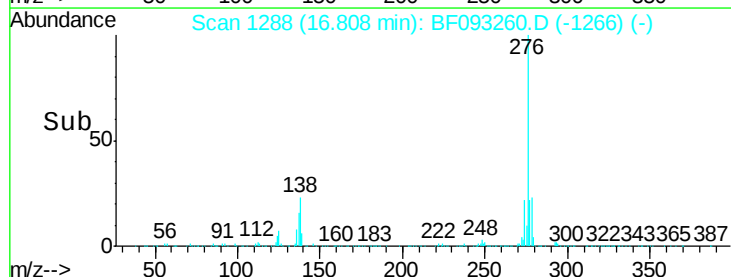
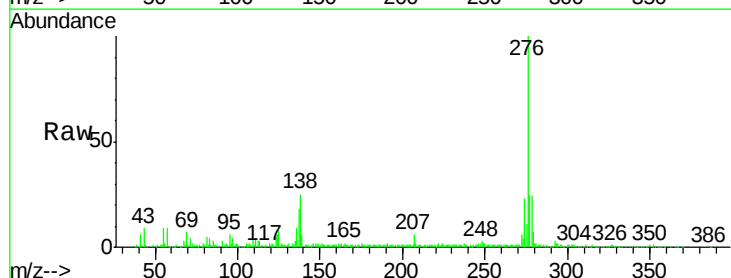
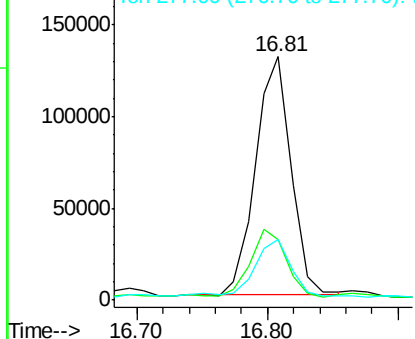
Delta R.T. -0.05 min

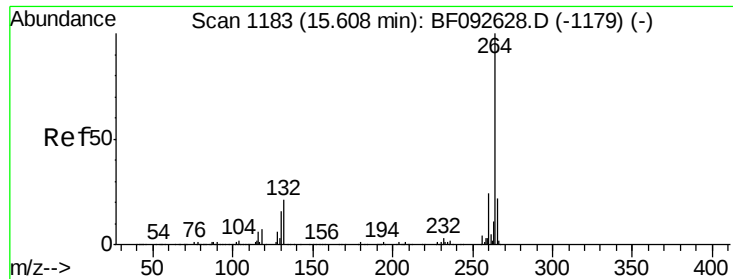
Lab File: BF093260.D

Acq: 28 Feb 2017 20:39

Tgt Ion:	276	Resp:	245335
Ion Ratio	Lower	Upper	
276	100		
138	29.6	21.8	32.6
277	25.6	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





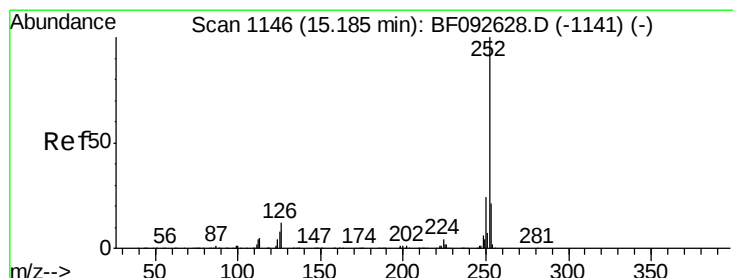
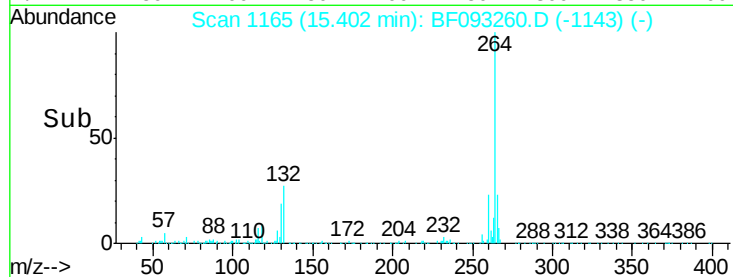
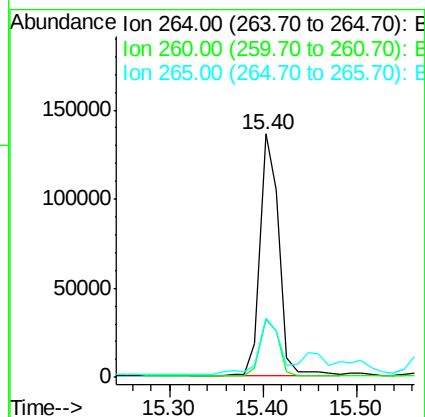
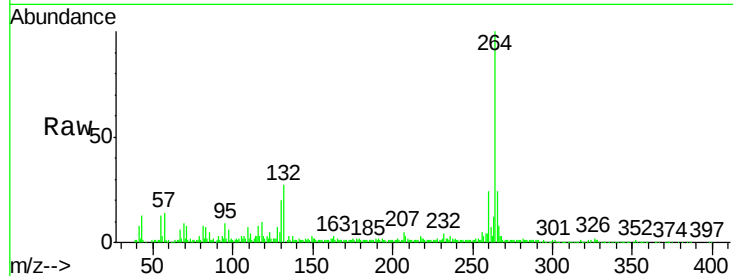
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	192776		
260	24.1	19.2	28.8	
265	24.2	17.4	26.0	

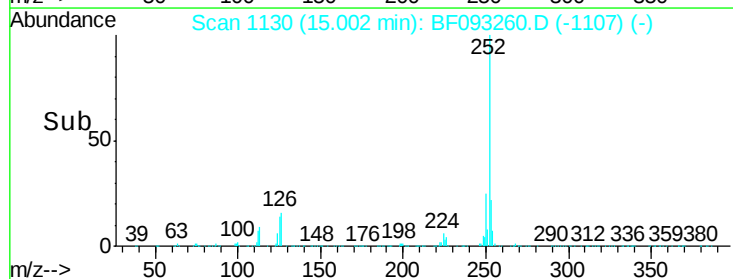
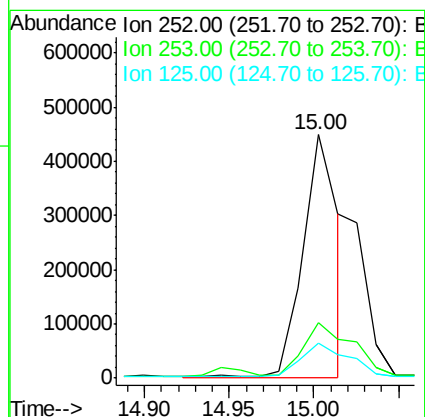
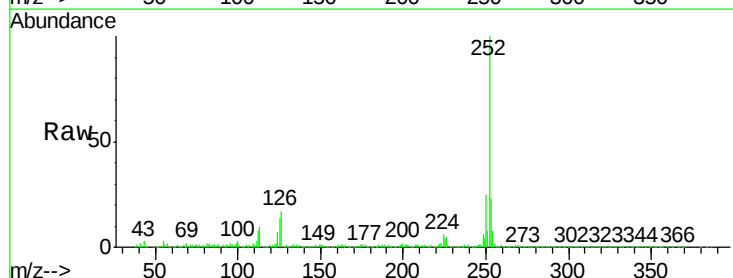
Manual Integrations
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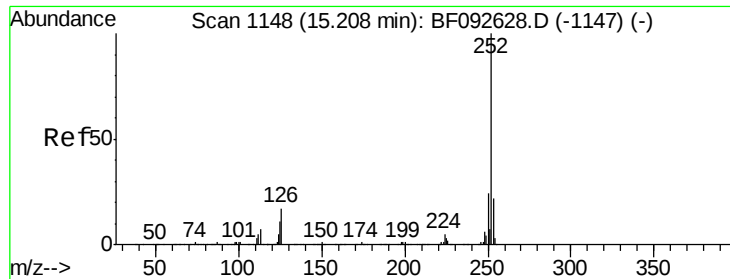
mohammad
3/1/2017 4:06:34 PM



#87
Benzo(b)fluoranthene
Concen: 51.00 ng m
RT: 15.00 min Scan# 1130
Delta R.T. -0.03 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	647073		
253	22.6	18.2	27.4	
125	14.3	9.8	14.6	





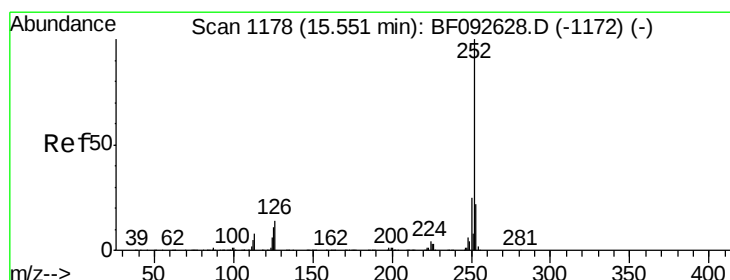
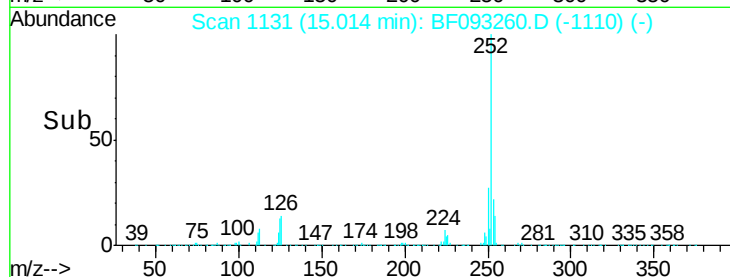
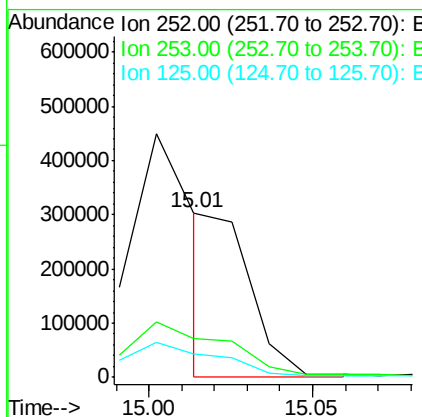
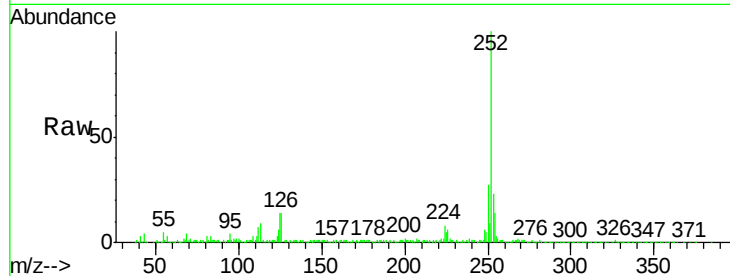
#88
Benzo(k)fluoranthene
Concen: 22.62 ng m
RT: 15.01 min Scan# 1131
Delta R.T. -0.06 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.5	27.7
125	14.1	8.9	13.3

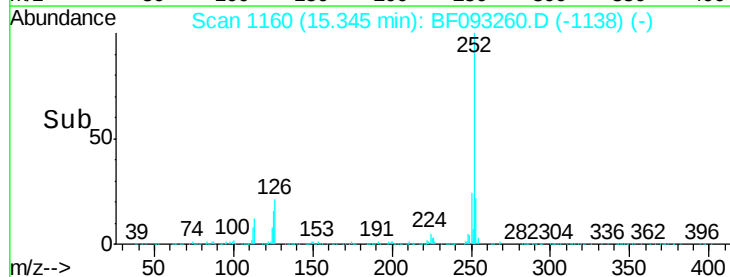
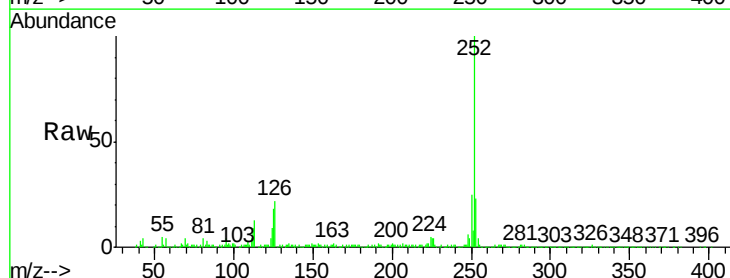
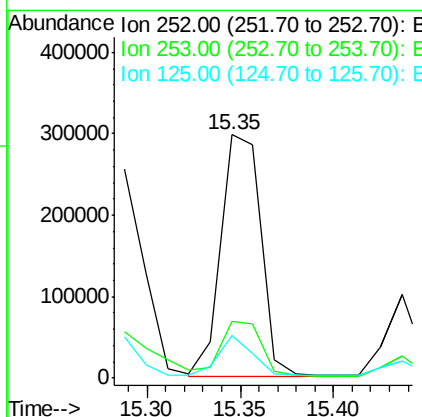
Manual Integrations
APPROVED

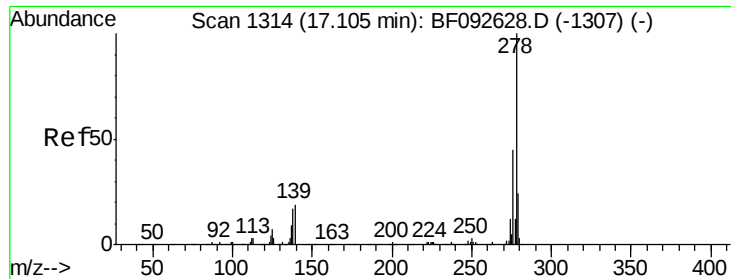
mohammad
3/1/2017 4:06:34 PM



#89
Benzo(a)pyrene
Concen: 40.53 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	17.6	10.0	15.0





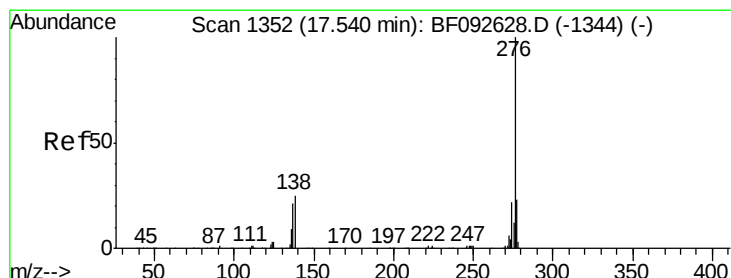
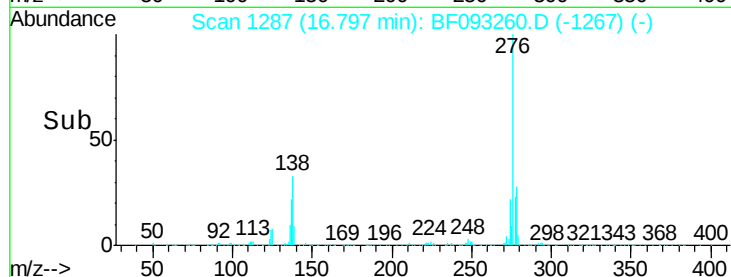
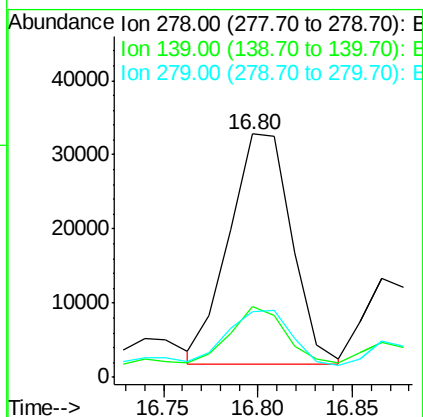
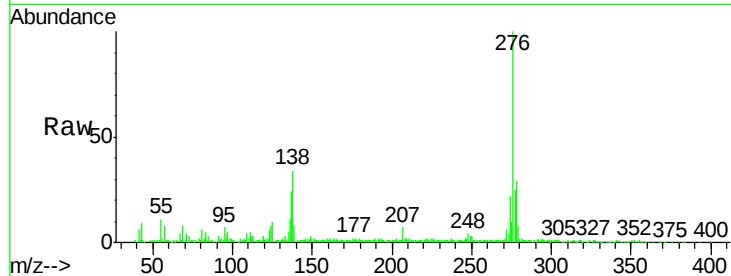
#90
Dibenzo(a,h)anthracene
Concen: 8.11 ng m
RT: 16.80 min Scan# 1287
Delta R.T. -0.07 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Instrument :
BNA_F
ClientSampleId :
TK3-10-20170227

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.9	14.8	22.2#
279	27.2	19.8	29.6

Manual Integrations
APPROVED

mohammad
3/1/2017 4:06:34 PM



#91
Benzo(g,h,i)perylene
Concen: 27.77 ng
RT: 17.23 min Scan# 1325
Delta R.T. -0.06 min
Lab File: BF093260.D
Acq: 28 Feb 2017 20:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.2	28.8
138	26.5	16.0	24.0#

