

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093258.D
 Acq On : 28 Feb 2017 19:43
 Operator : SJ/MA
 Sample : I2017-11
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK3-8-20170227

Manual Integrations
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Quant Time: Mar 01 02:47:25 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	138338	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	557304	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	229322	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	368796	20.00	ng	-0.05
75) Chrysene-d12	13.99	240	293656	20.00	ng	-0.03
86) Perylene-d12	15.41	264	214109	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	984674	122.12	ng	-0.03
7) Phenol-d6	6.46	99	1320662	127.29	ng	-0.02
23) Nitrobenzene-d5	7.38	82	707618	70.71	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	202785	122.26	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	1168971	92.35	ng	-0.05
78) Terphenyl-d14	12.92	244	847611	67.82	ng	-0.05
Target Compounds						Qvalue
10) Phenol	6.49	94	85759	7.07	ng	# 67
31) Naphthalene	8.12	128	69754	2.47	ng	99
37) 2-Methylnaphthalene	8.81	142	54156	2.99	ng	98
48) Acenaphthylene	9.71	152	425481	18.96	ng	98
49) Dimethylphthalate	9.57	163	87408	5.66	ng	98
51) Acenaphthene	9.88	154	30356	2.26	ng	90
54) Dibenzofuran	10.05	168	129453	7.21	ng	95
57) Fluorene	10.40	166	118569m	8.59	ng	
70) Phenanthrene	11.37	178	1789370	84.69	ng	99
71) Anthracene	11.41	178	357132	16.83	ng	98
72) Carbazole	11.57	167	131246	6.47	ng	97
74) Fluoranthene	12.56	202	2326502	106.75	ng	100
77) Pyrene	12.79	202	2145922	97.65	ng	100
80) Benzo(a)anthracene	13.97	228	1023806m	57.00	ng	
82) Chrysene	14.01	228	961913m	57.20	ng	
85) Indeno(1,2,3-cd)pyrene	16.81	276	421466	32.36	ng	97
87) Benzo(b)fluoranthene	15.01	252	1158345m	82.19	ng	
88) Benzo(k)fluoranthene	15.03	252	227184m	18.67	ng	
89) Benzo(a)pyrene	15.36	252	624420	51.22	ng	99
90) Dibenzo(a,h)anthracene	16.81	278	108967	11.06	ng	# 75
91) Benzo(g,h,i)perylene	17.23	276	373056	37.48	ng	# 90

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

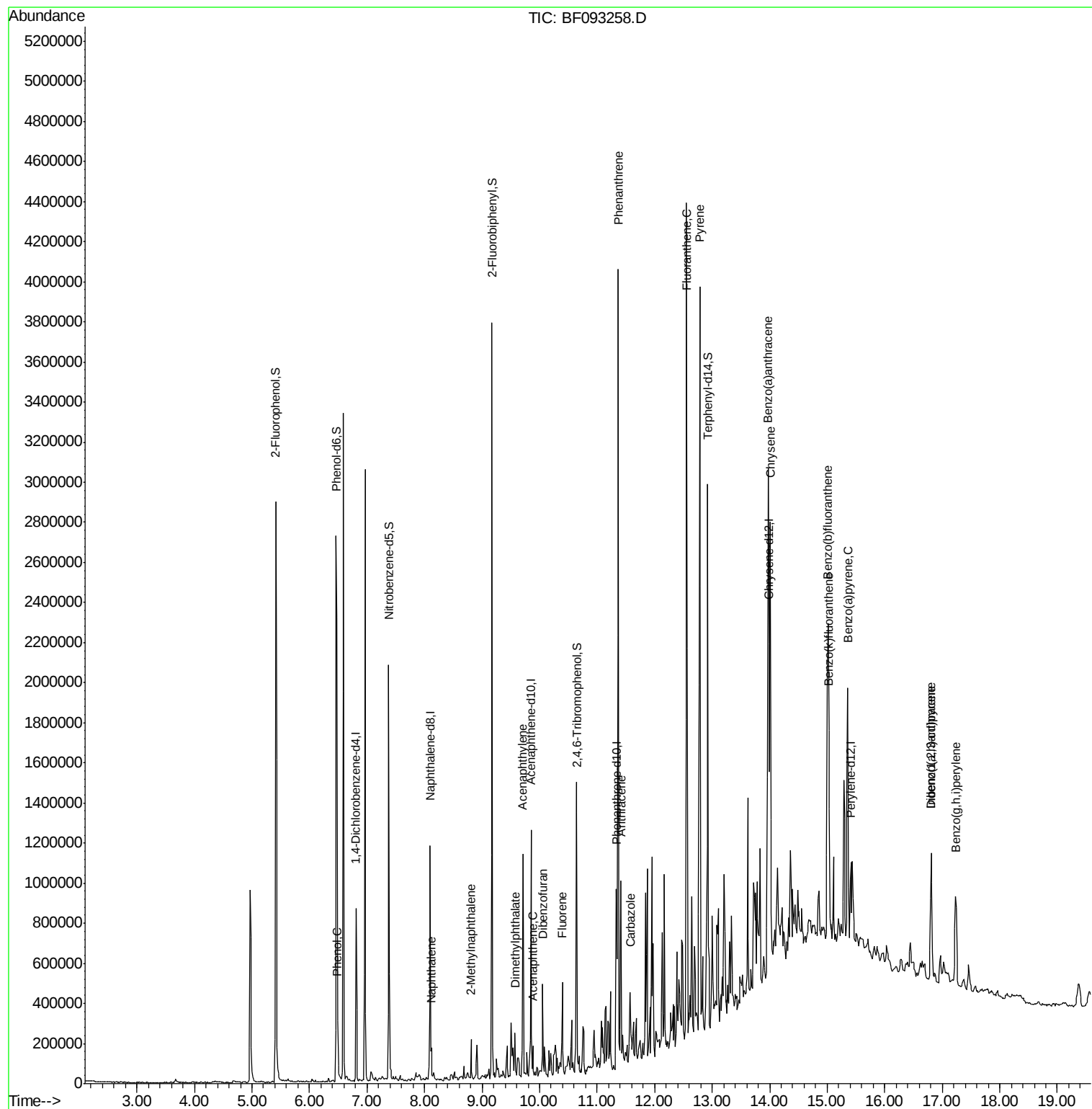
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093258.D
Acq On : 28 Feb 2017 19:43
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Misc :
ALS Vial : 21 Sample Multiplier: 1

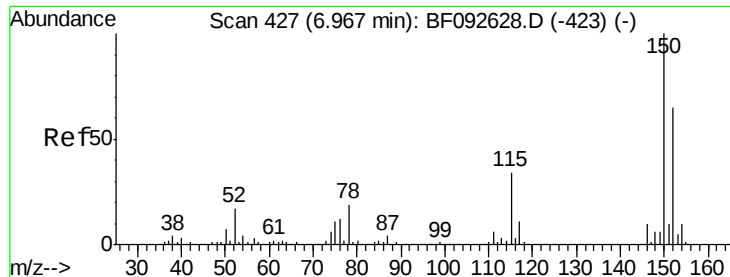
Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

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Quant Time: Mar 01 02:47:25 2017
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

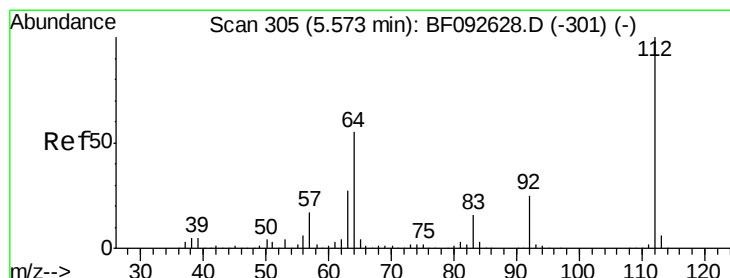
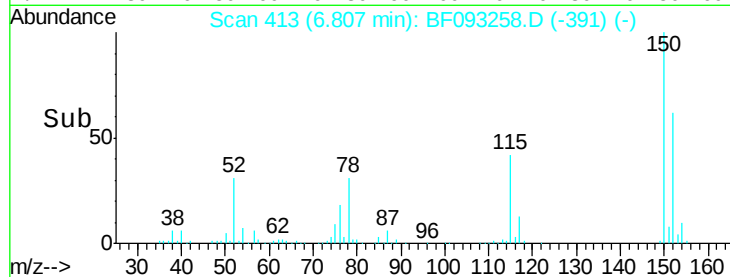
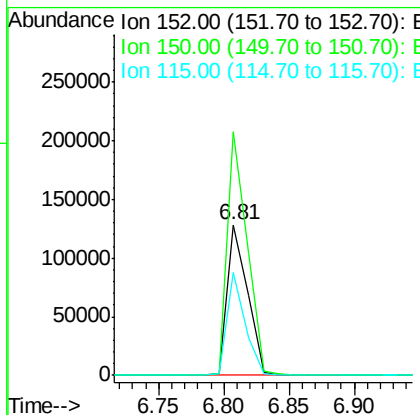
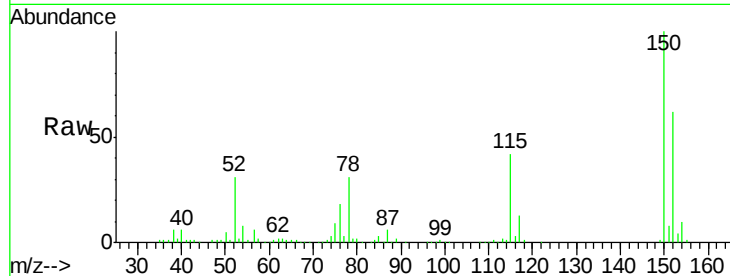
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Lower	Upper
152	100		
150	162.0	124.9	187.3
115	68.1	46.0	69.0

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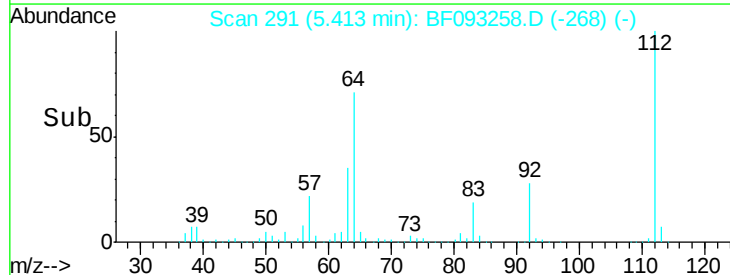
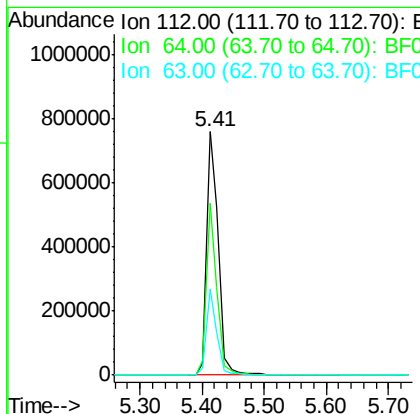
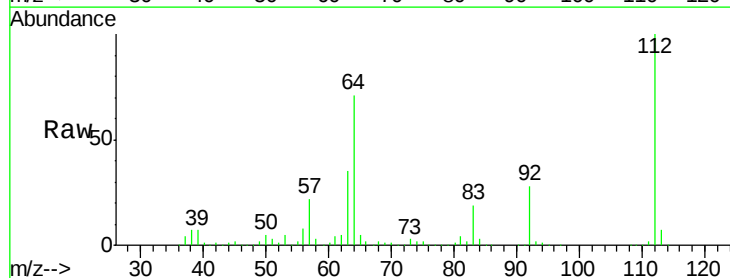
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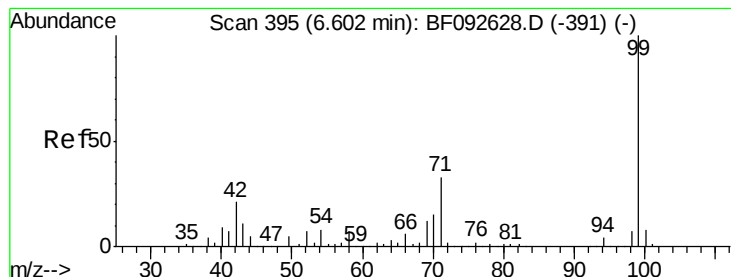


#5

2-Fluorophenol
Concen: 122.12 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.6	46.1	69.1#
63	35.2	23.8	35.6





#7

Phenol-d6

Concen: 127.29 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

ClientSampleId :

TK3-8-20170227

Tgt Ion: 99 Resp: 1320662

Ion Ratio Lower Upper

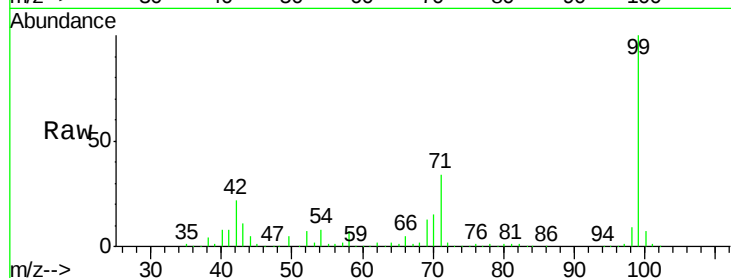
99 100

42 21.6 15.6 23.4

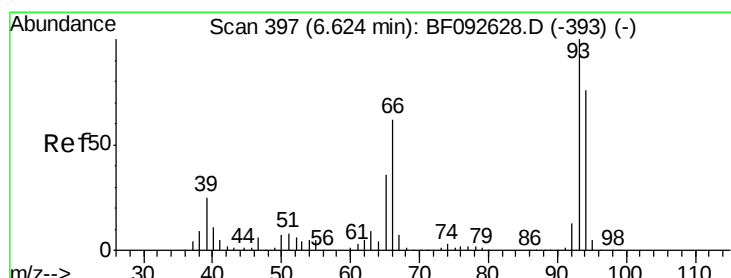
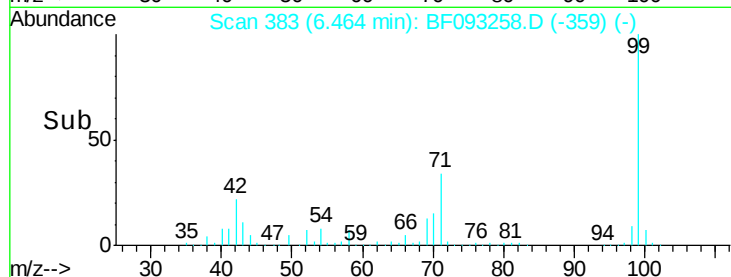
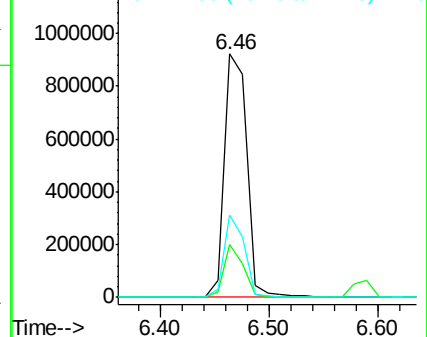
71 33.6 27.5 41.3

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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: 7.07 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

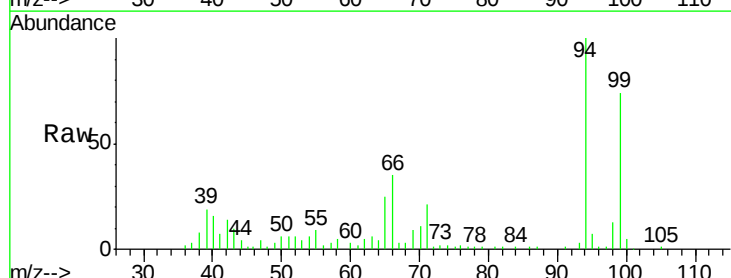
Tgt Ion: 94 Resp: 85759

Ion Ratio Lower Upper

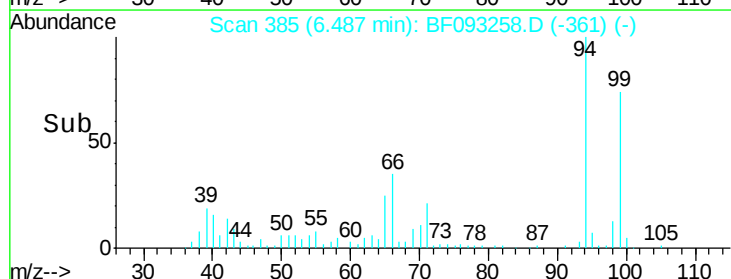
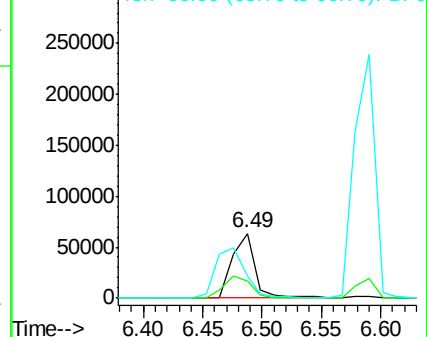
94 100

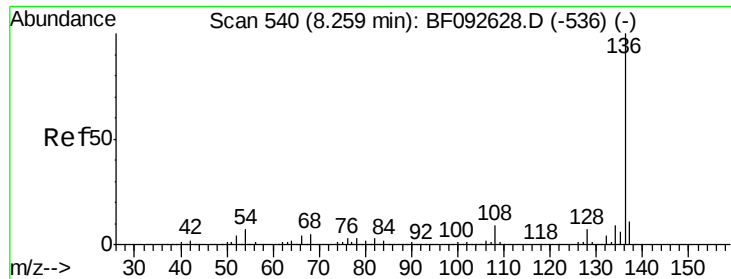
65 25.3 21.4 61.4

66 34.7 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





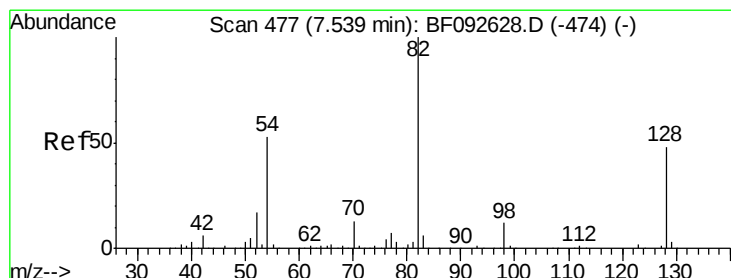
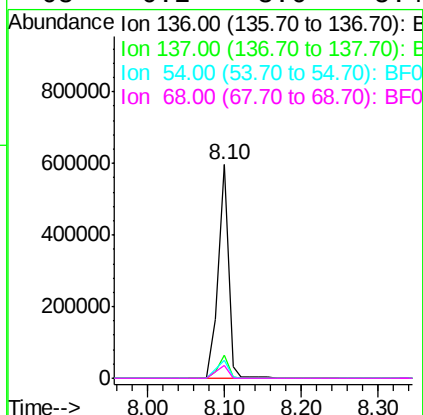
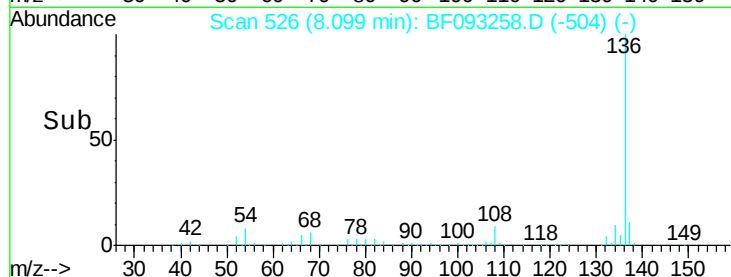
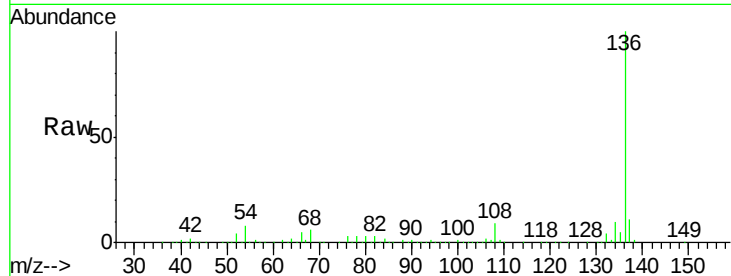
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	557304		
137	10.7	8.4	12.6	
54	8.1	4.5	6.7#	
68	6.2	3.6	5.4#	

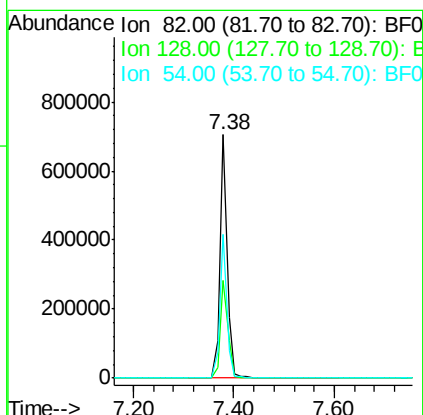
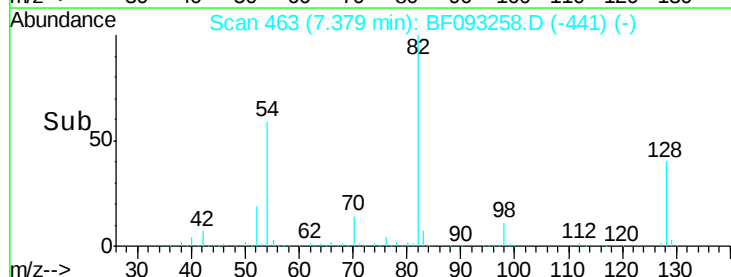
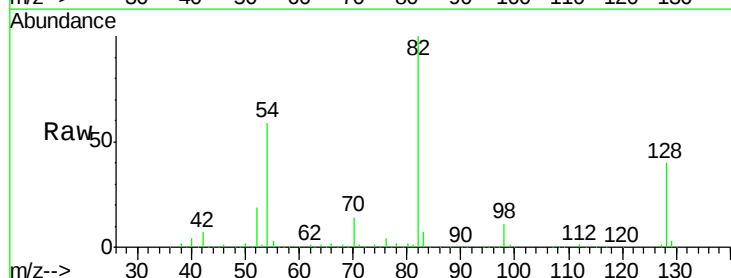
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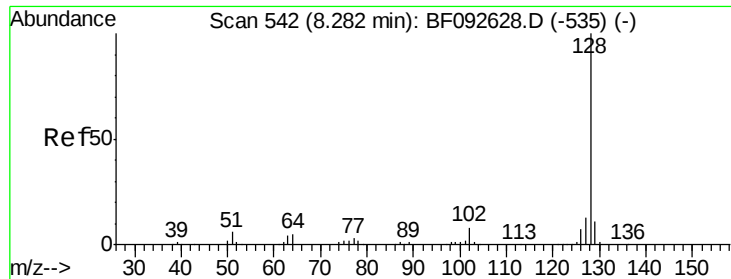
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#23
Nitrobenzene-d5
Concen: 70.71 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	707618		
128	40.1	34.6	52.0	
54	59.2	39.5	59.3	





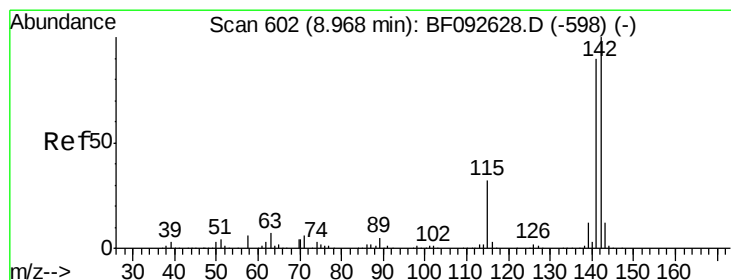
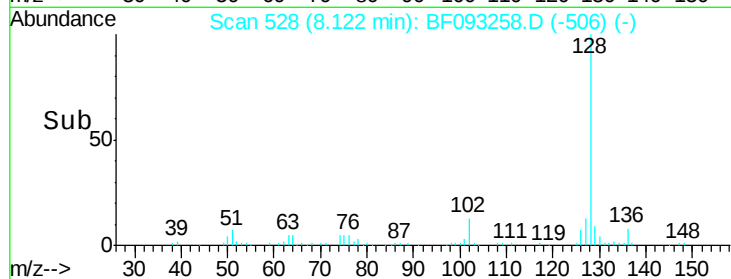
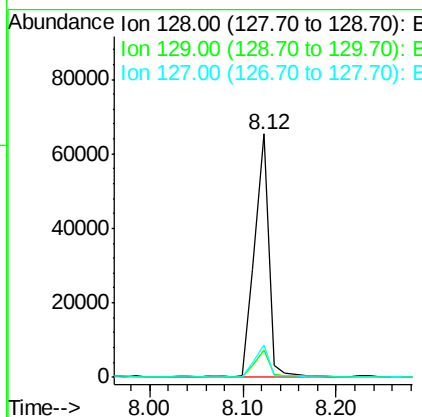
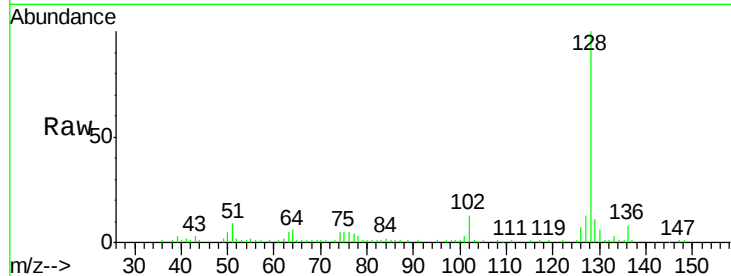
#31
Naphthalene
Concen: 2.47 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	69754		
129	11.2		9.5	14.3
127	13.3		10.8	16.2

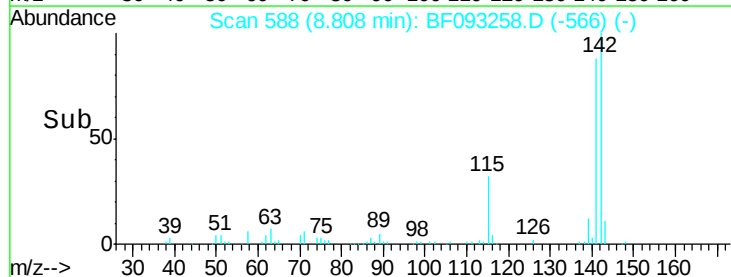
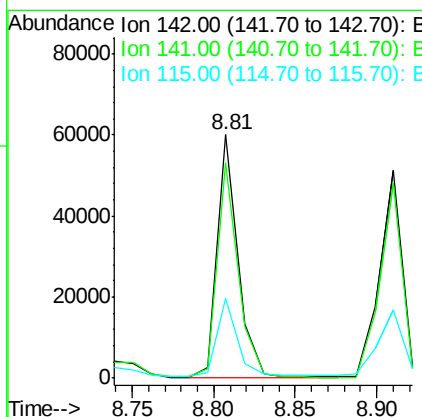
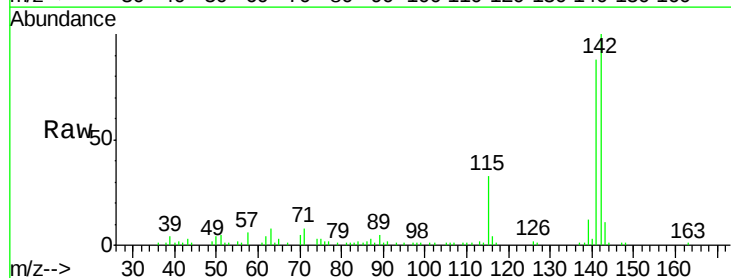
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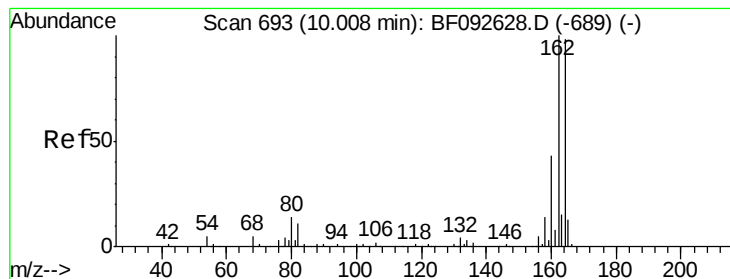
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#37
2-Methylnaphthalene
Concen: 2.99 ng
RT: 8.81 min Scan# 588
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	54156		
141	88.3		71.0	106.6
115	32.9		28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

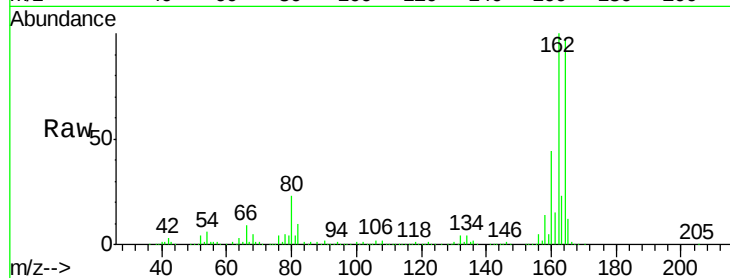
ClientSampleId :

TK3-8-20170227

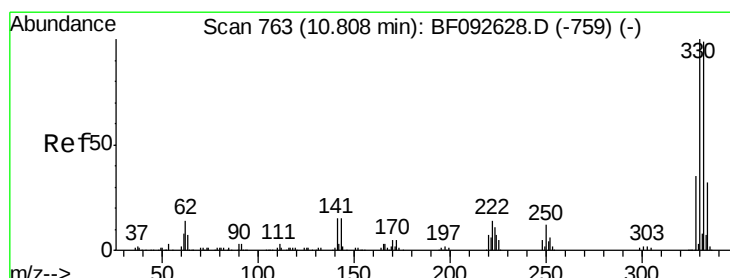
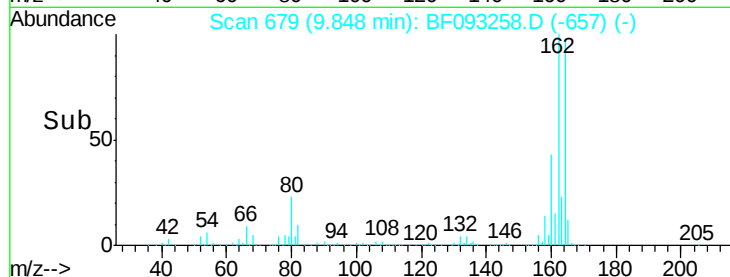
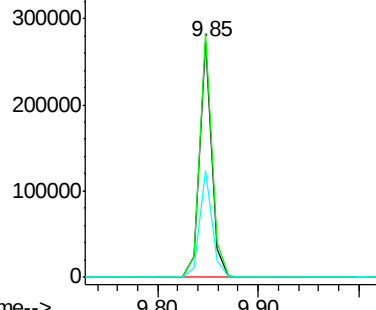
Tgt Ion:	164	Resp:	229322
Ion Ratio	Lower	Upper	
164	100		
162	103.4	80.2	120.2
160	45.1	36.9	55.3

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 122.26 ng

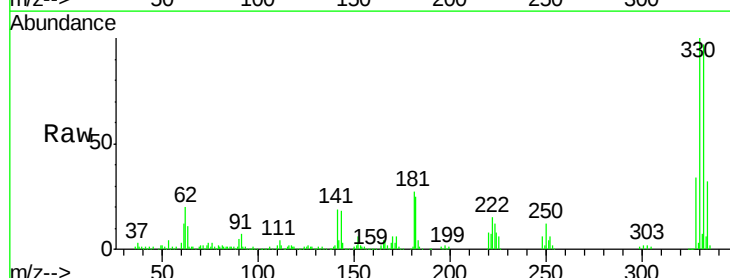
RT: 10.65 min Scan# 749

Delta R.T. -0.03 min

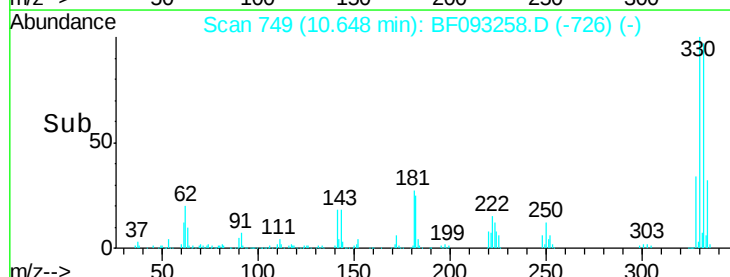
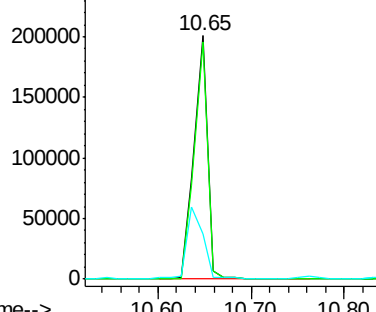
Lab File: BF093258.D

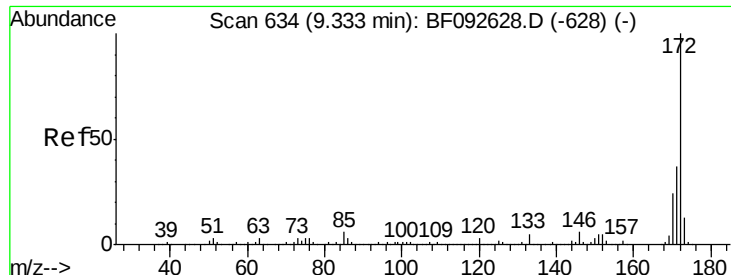
Acq: 28 Feb 2017 19:43

Tgt Ion:	330	Resp:	202785
Ion Ratio	Lower	Upper	
330	100		
332	96.2	77.4	116.2
141	35.0	34.1	51.1



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





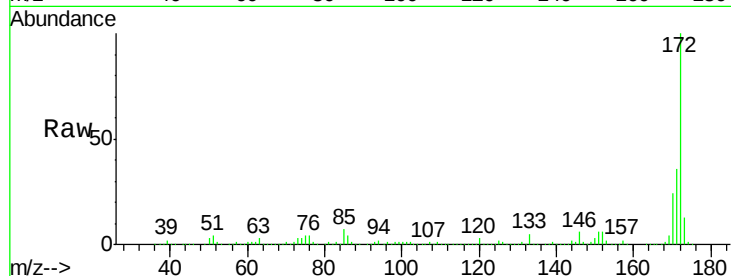
#44
2-Fluorobiphenyl
Concen: 92.35 ng
RT: 9.17 min Scan# 620
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

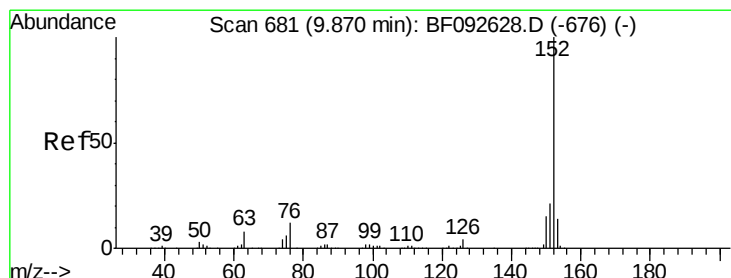
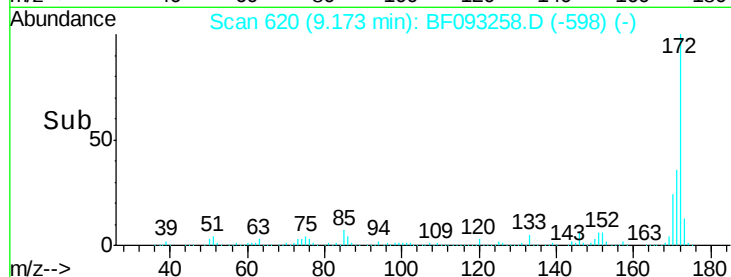
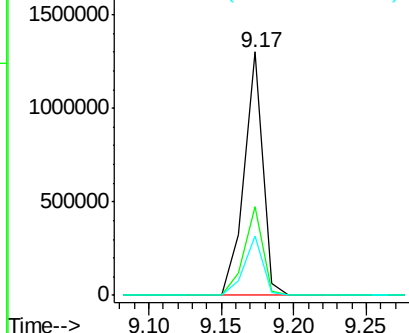
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	24.2	20.2	30.4

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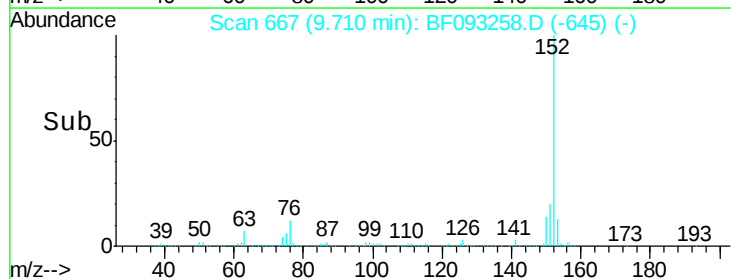
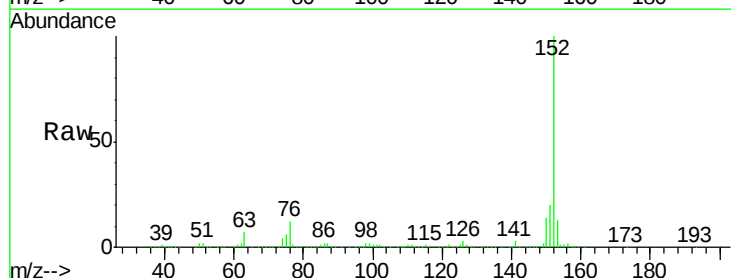
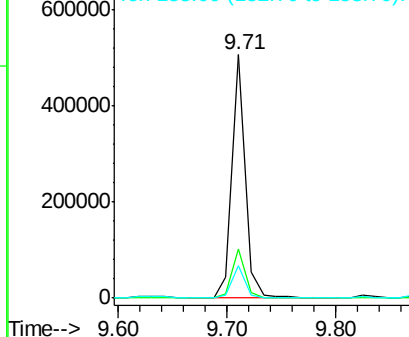
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

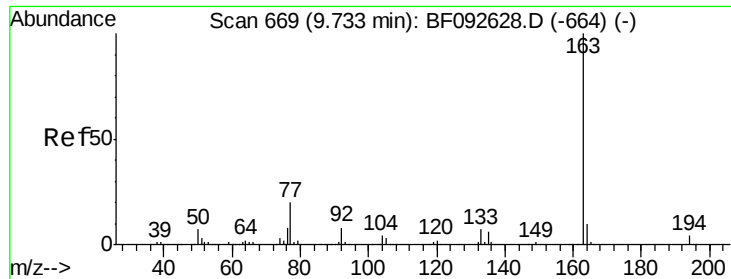


#48
Acenaphthylene
Concen: 18.96 ng
RT: 9.71 min Scan# 667
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.9	25.3
153	13.3	11.4	17.2

Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





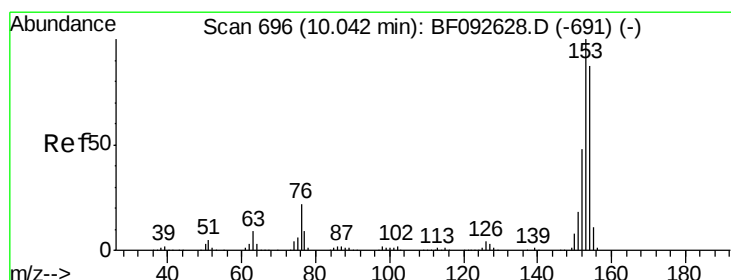
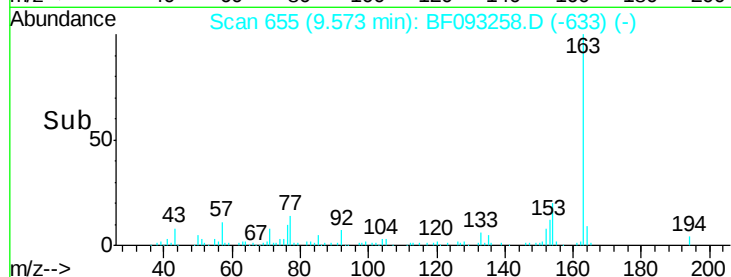
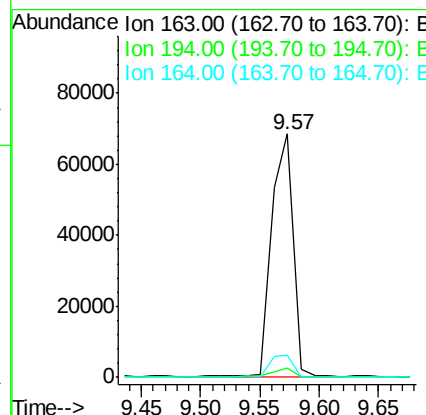
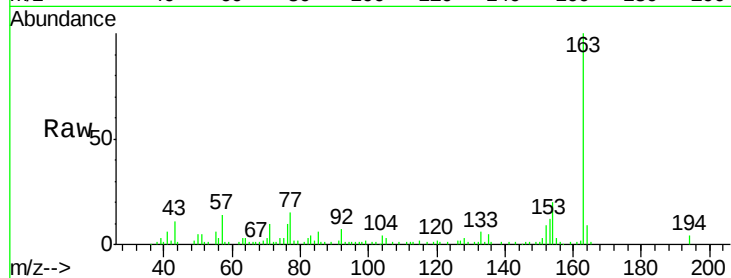
#49
Dimethylphthalate
Concen: 5.66 ng
RT: 9.57 min Scan# 655
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	87408		
194	3.7		3.0	4.4
164	8.9		8.0	12.0

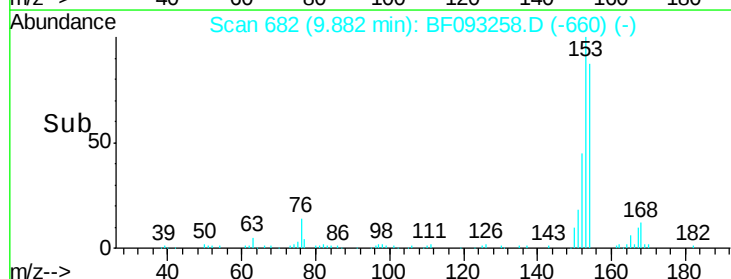
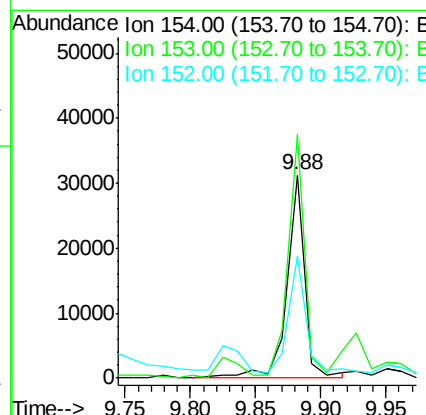
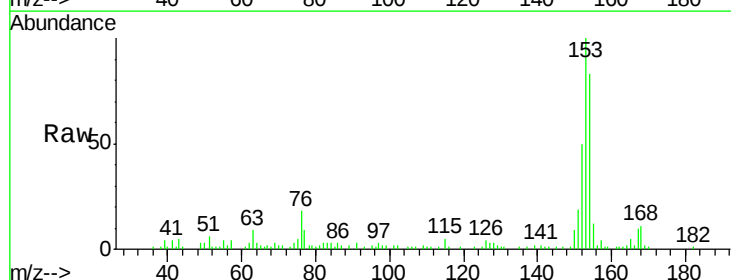
Manual Integrations
APPROVED

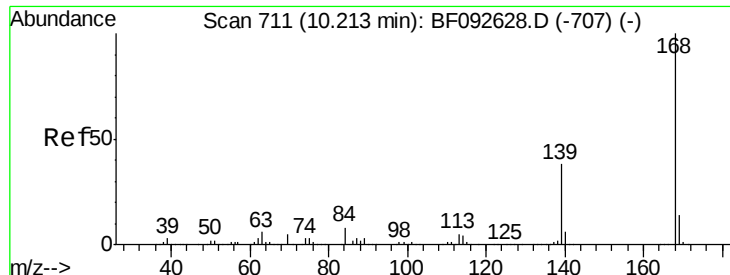
mohammad
3/1/2017 4:06:19 PM



#51
Acenaphthene
Concen: 2.26 ng
RT: 9.88 min Scan# 682
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	30356		
153	120.1		88.6	133.0
152	60.2		41.6	62.4





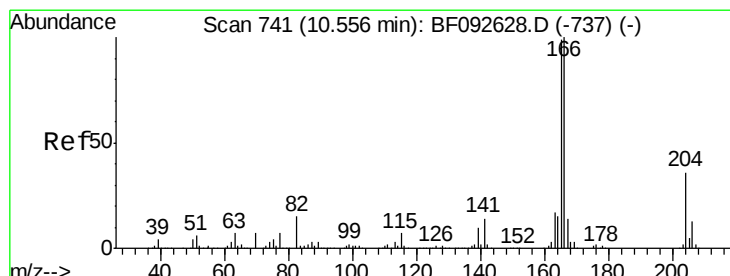
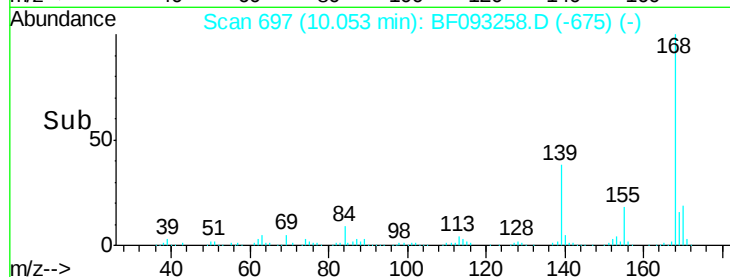
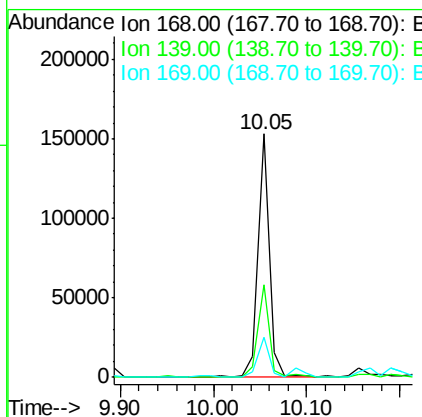
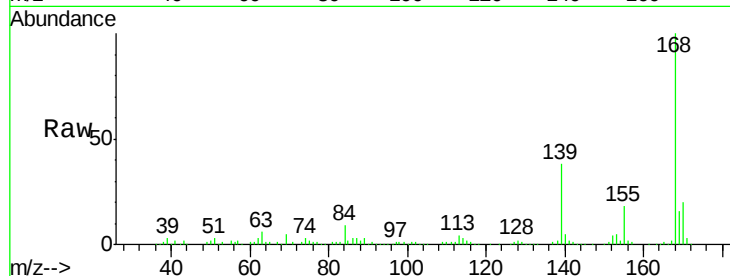
#54
Dibenzenofuran
Concen: 7.21 ng
RT: 10.05 min Scan# 697
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	129453		
139	38.0	32.6	49.0	
169	16.4	11.3	16.9	

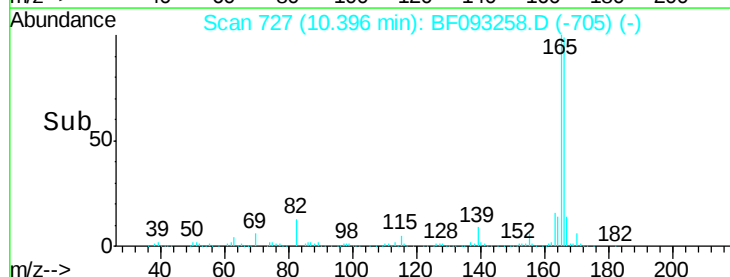
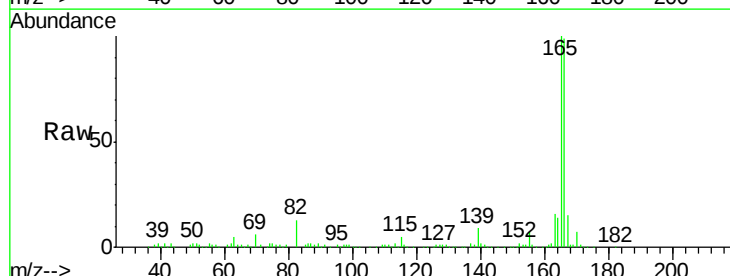
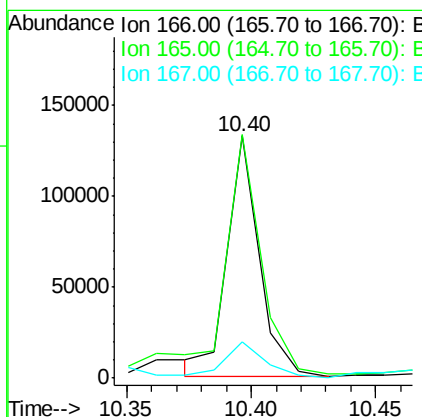
Manual Integrations
APPROVED

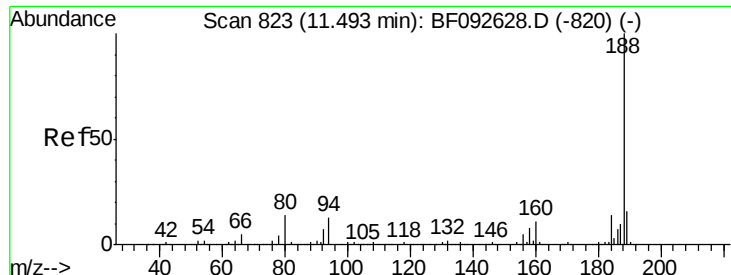
mohammad
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#57
Fluorene
Concen: 8.59 ng m
RT: 10.40 min Scan# 727
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	118569		
165	100.7	77.8	116.8	
167	14.8	10.8	16.2	





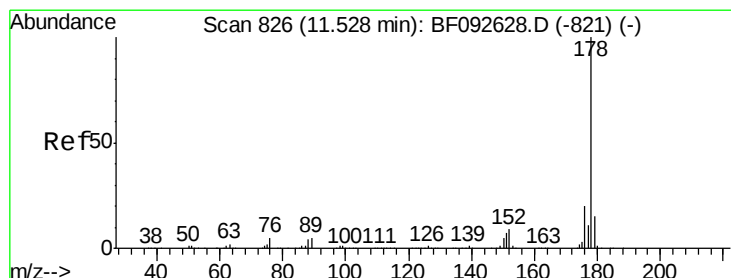
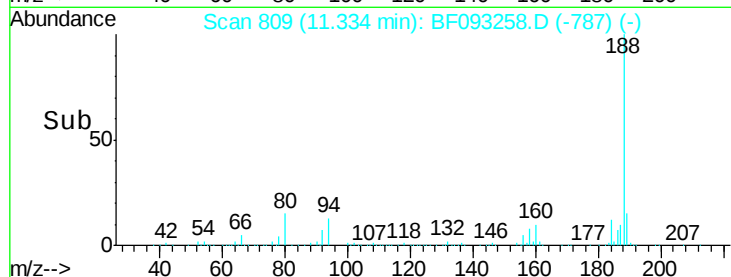
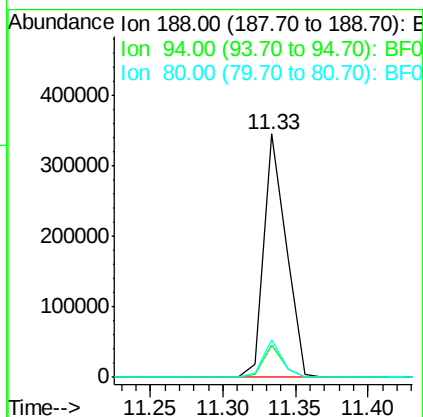
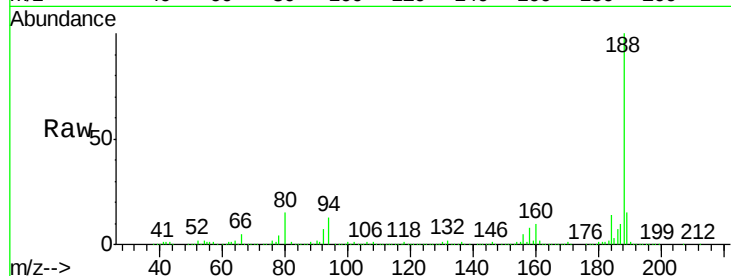
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.33 min Scan# 809
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	368796		
94	13.3	10.0	15.0	
80	15.4	11.2	16.8	

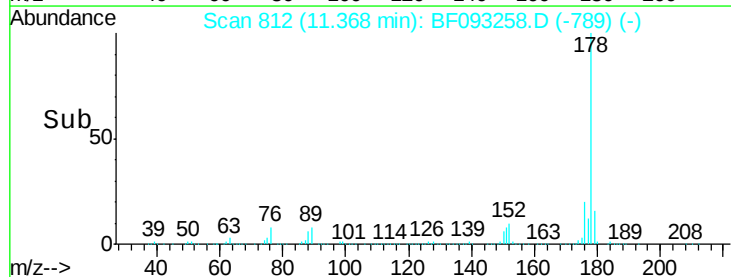
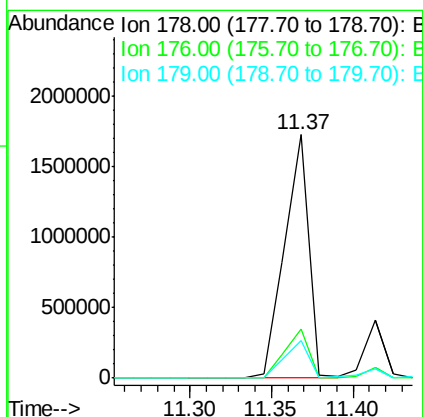
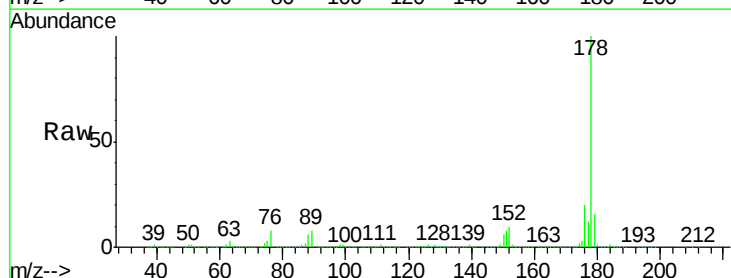
Manual Integrations
APPROVED

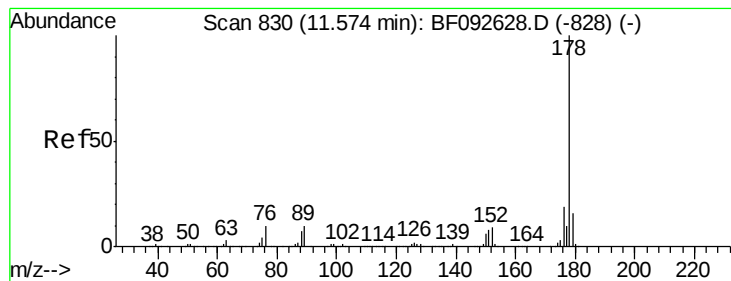
mohammad
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#70
Phenanthrene
Concen: 84.69 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1789370		
176	20.2	16.6	25.0	
179	15.6	12.8	19.2	





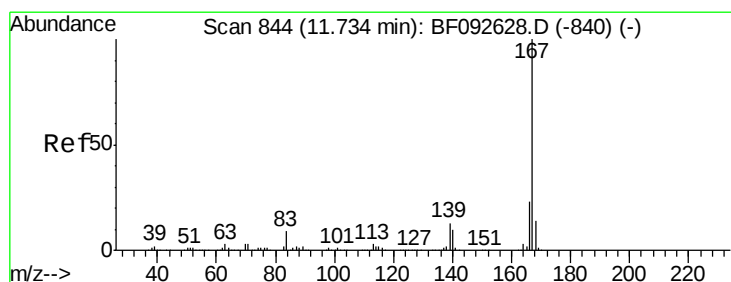
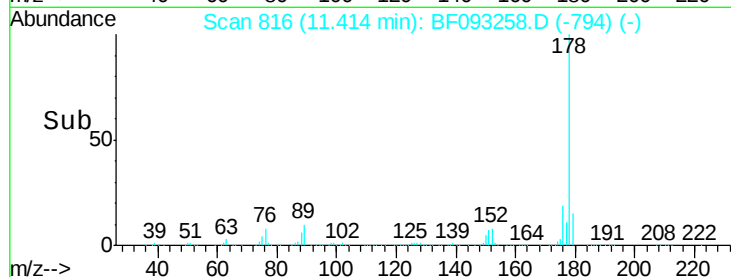
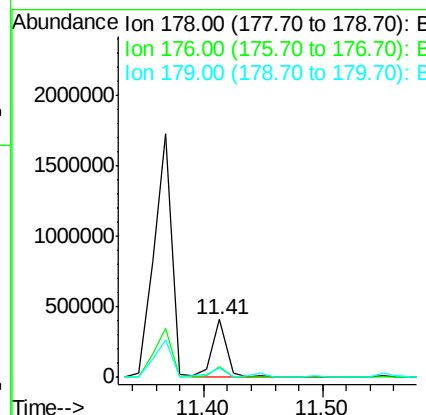
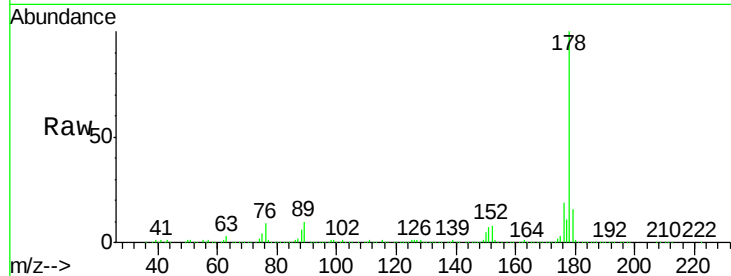
#71
 Anthracene
 Concen: 16.83 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.05 min
 Lab File: BF093258.D
 Acq: 28 Feb 2017 19:43

Instrument :
 BNA_F
 ClientSampleId :
 TK3-8-20170227

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.6	13.2	19.8

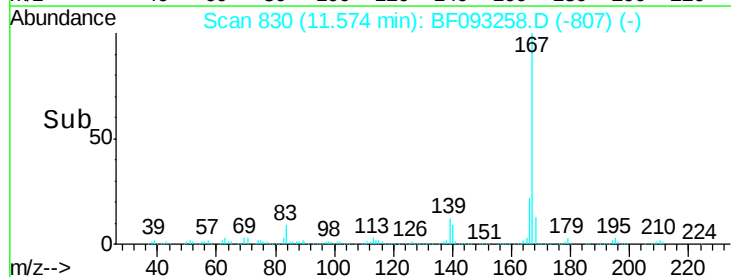
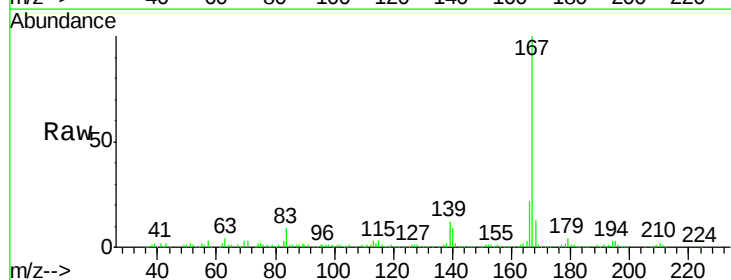
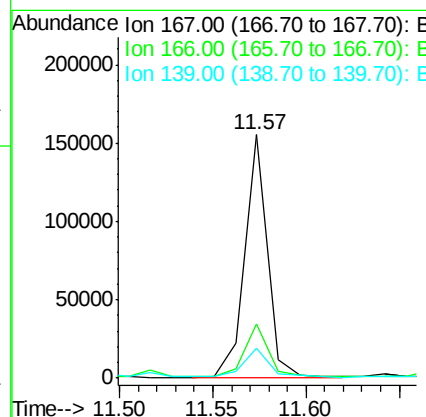
Manual Integrations
 APPROVED

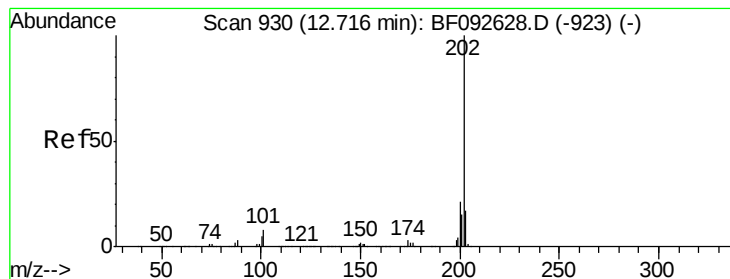
mohammad
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#72
 Carbazole
 Concen: 6.47 ng
 RT: 11.57 min Scan# 830
 Delta R.T. -0.03 min
 Lab File: BF093258.D
 Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	18.2	27.2
139	12.4	11.4	17.2





#74

Fluoranthene

Concen: 106.75 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

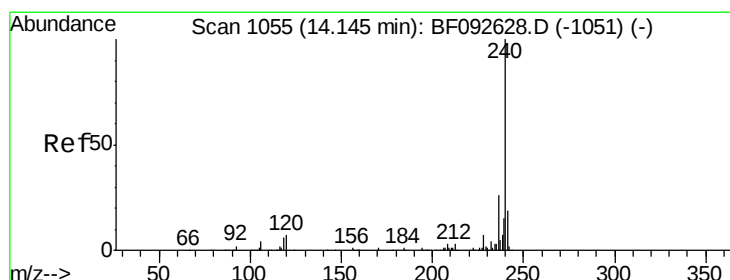
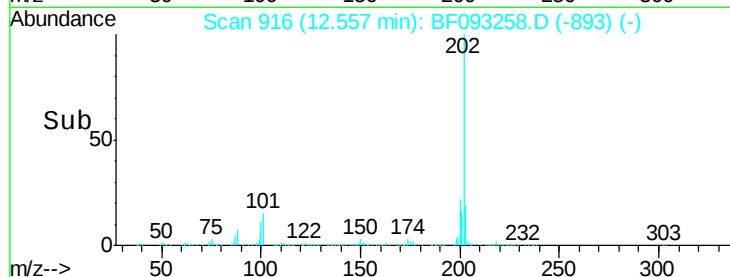
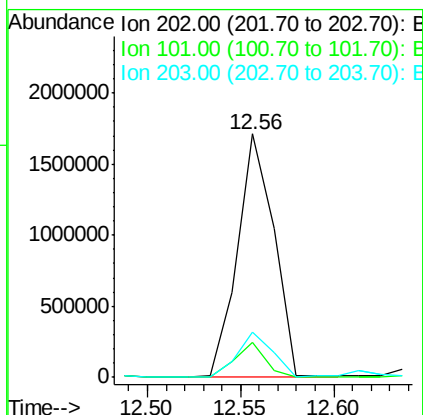
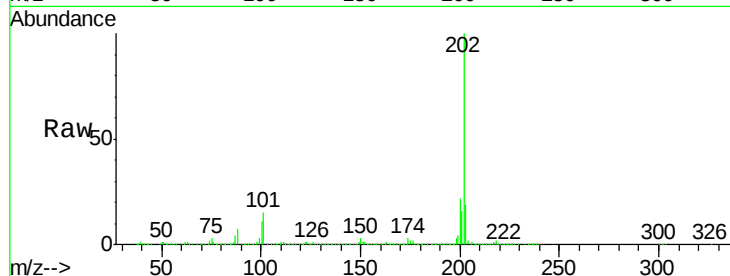
ClientSampleId :

TK3-8-20170227

Tgt	Ion	202	Resp:	2326502
Ion	Ratio	Lower	Upper	
202	100			
101	14.6	0.0	34.6	
203	18.6	0.0	38.7	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

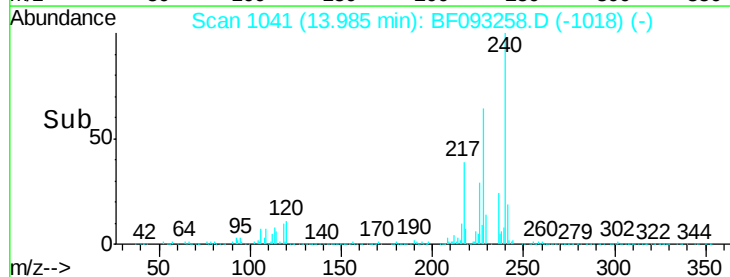
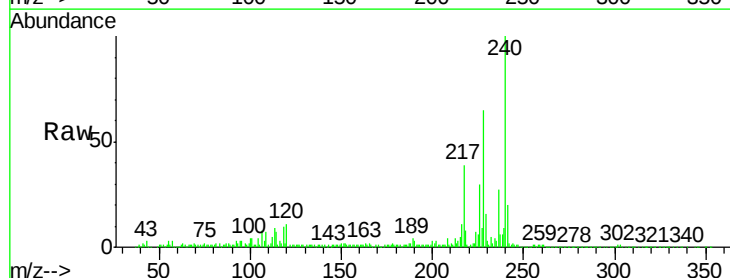
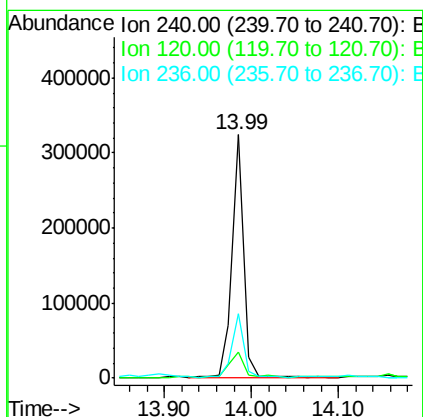
RT: 13.99 min Scan# 1041

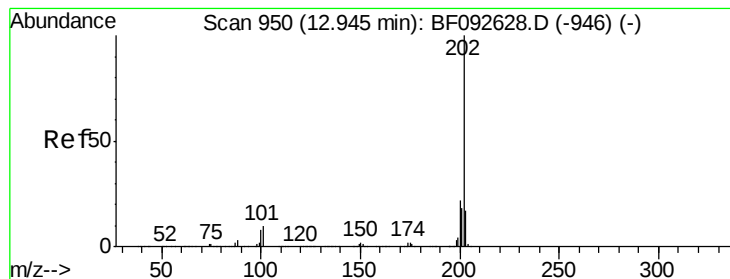
Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Tgt	Ion	240	Resp:	293656
Ion	Ratio	Lower	Upper	
240	100			
120	10.9	12.9	19.3#	
236	26.5	20.9	31.3	





#77

Pyrene

Concen: 97.65 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

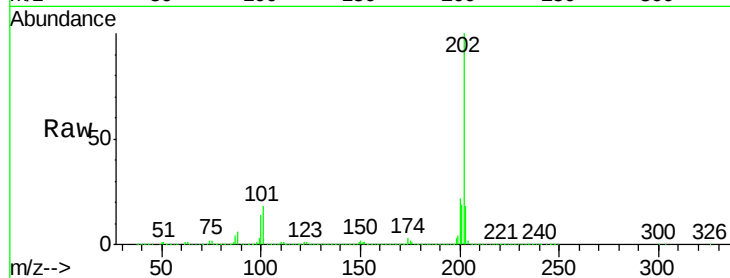
ClientSampleId :

TK3-8-20170227

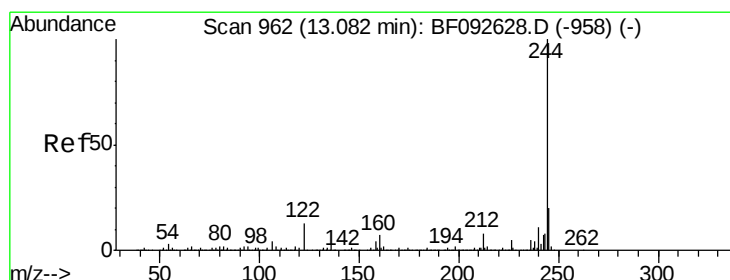
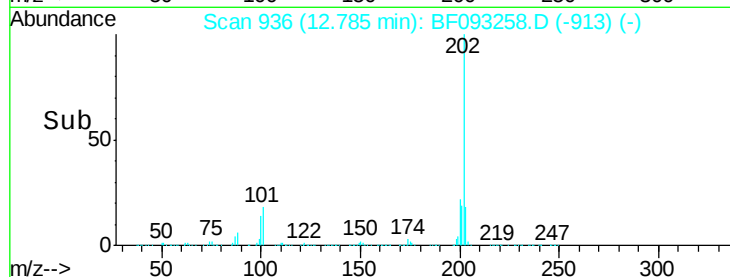
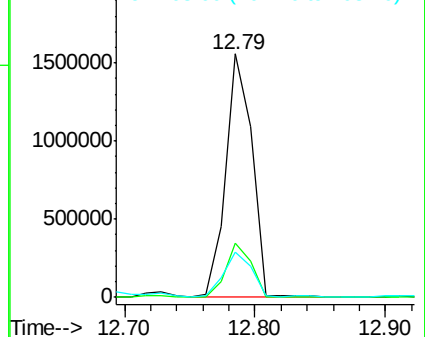
Tgt Ion:	202	Resp:	2145922
Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.7	26.5
203	18.4	14.7	22.1

Manual Integrations
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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: 67.82 ng

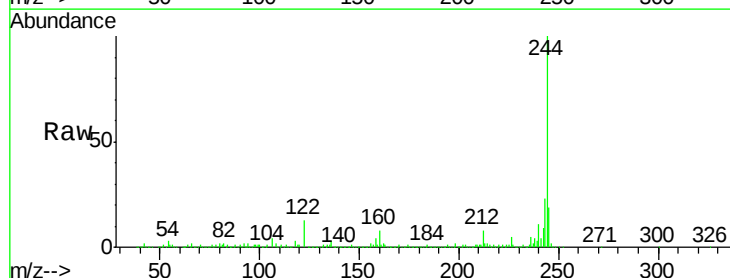
RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

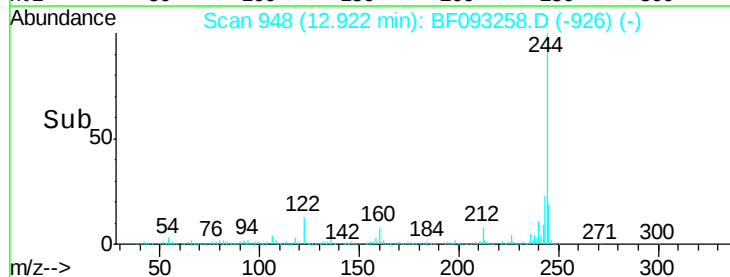
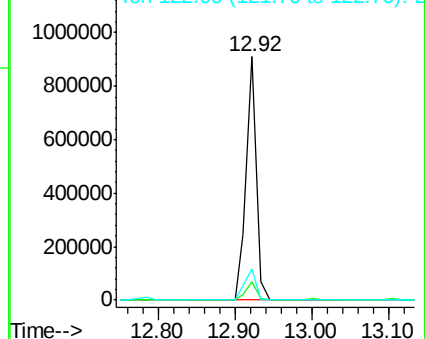
Lab File: BF093258.D

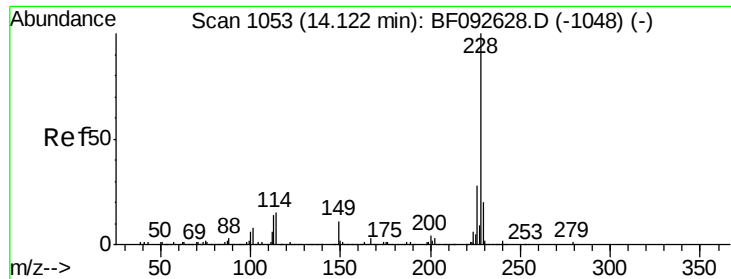
Acq: 28 Feb 2017 19:43

Tgt Ion:	244	Resp:	847611
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.2
122	13.0	11.4	17.2



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





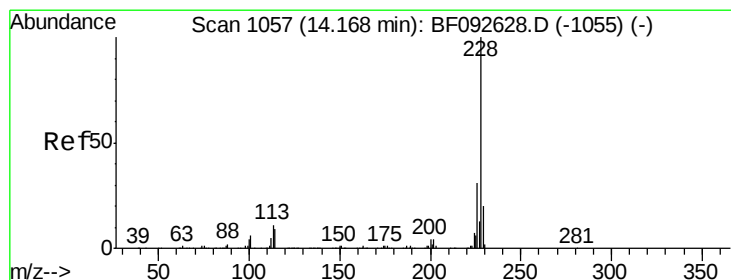
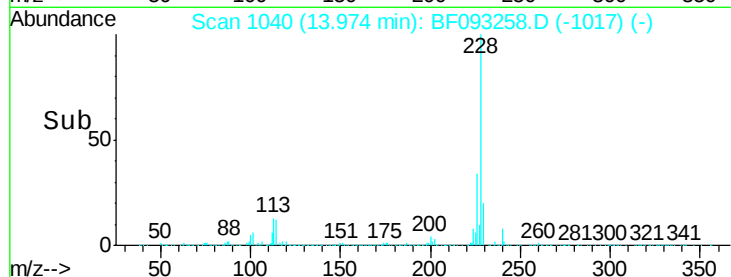
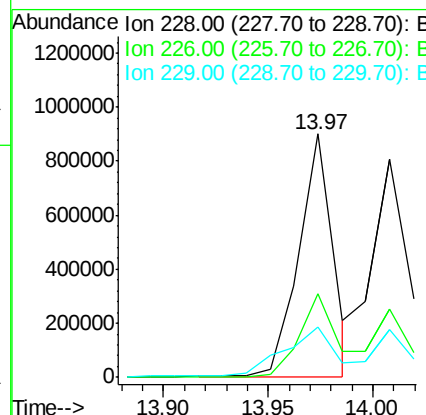
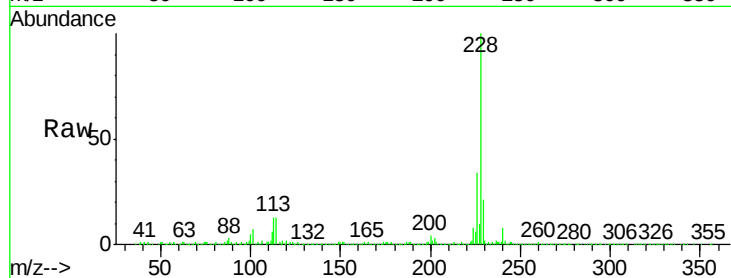
#80
Benzo(a)anthracene
Concen: 57.00 ng m
RT: 13.97 min Scan# 1040
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion:228 Resp: 1023806
Ion Ratio Lower Upper
228 100
226 34.2 22.4 33.6#
229 20.8 16.2 24.4

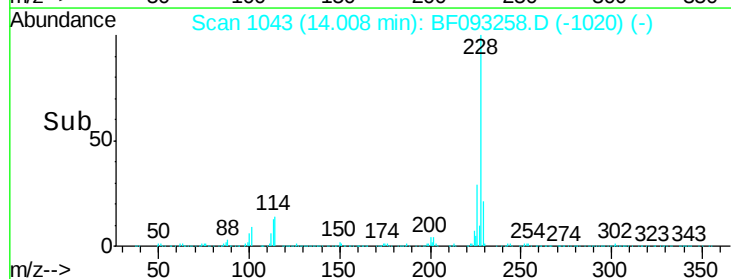
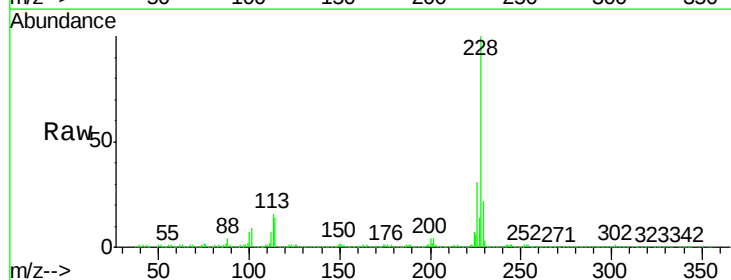
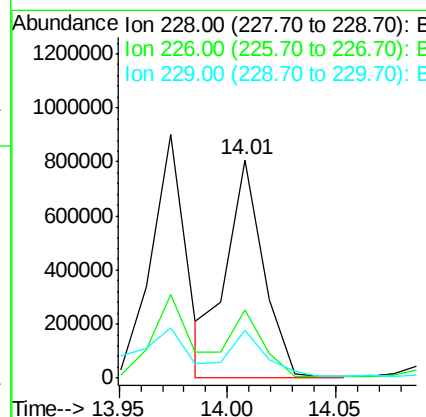
Manual Integrations
APPROVED

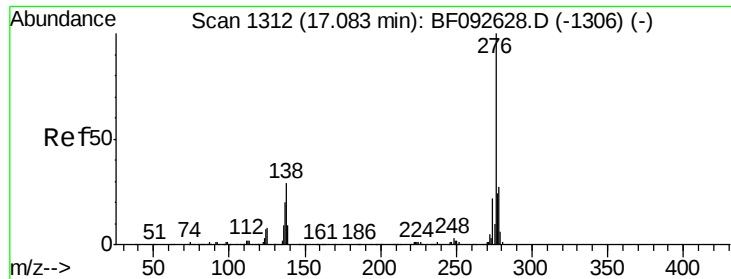
mohammad
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#82
Chrysene
Concen: 57.20 ng m
RT: 14.01 min Scan# 1043
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion:228 Resp: 961913
Ion Ratio Lower Upper
228 100
226 31.4 25.4 38.0
229 22.1 16.2 24.2





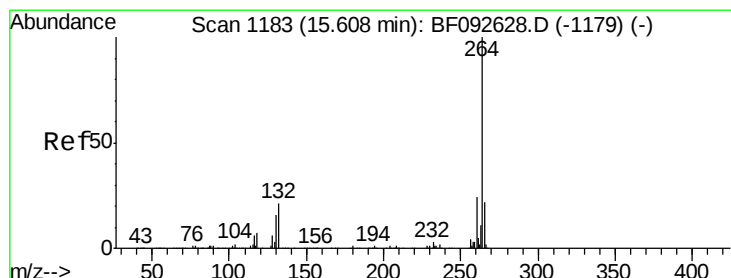
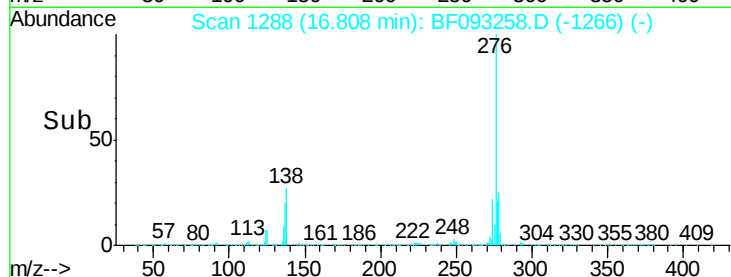
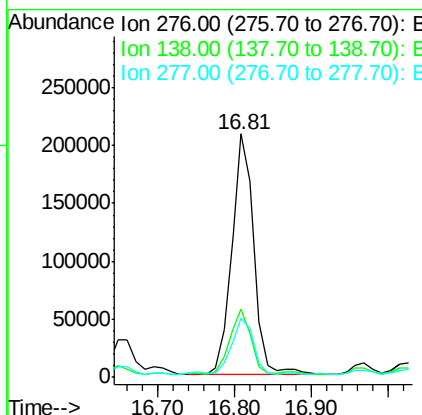
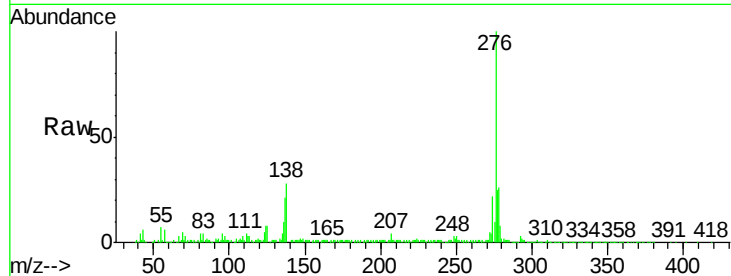
#85
Indeno(1,2,3-cd)pyrene
Concen: 32.36 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.05 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	421466		
138	26.3	21.8	32.6	
277	23.5	20.2	30.4	

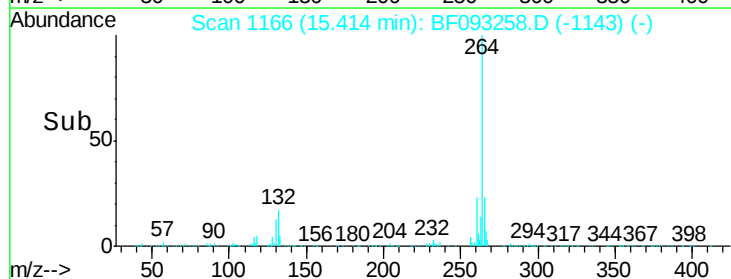
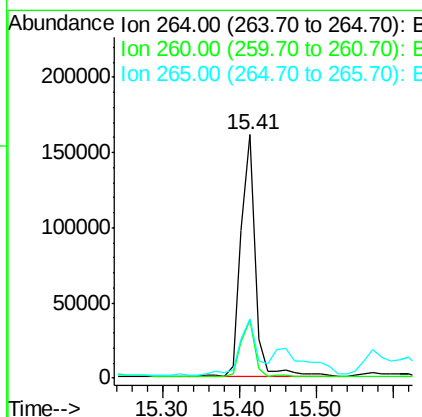
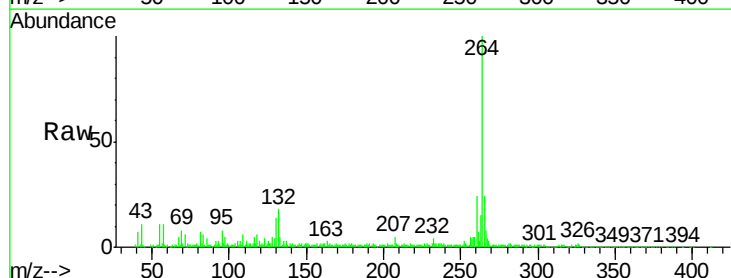
Manual Integrations
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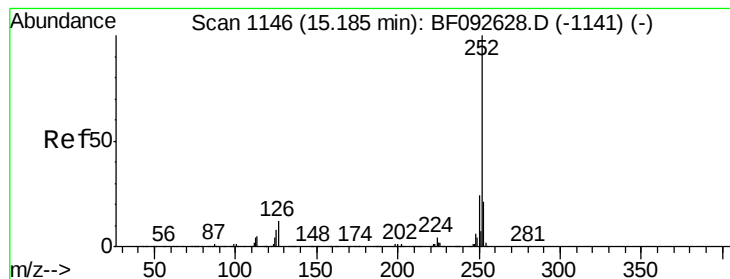
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	214109		
260	24.1	19.2	28.8	
265	24.3	17.4	26.0	





#87

Benzo(b)fluoranthene

Concen: 82.19 ng m

RT: 15.01 min Scan# 1131

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

ClientSampleId :

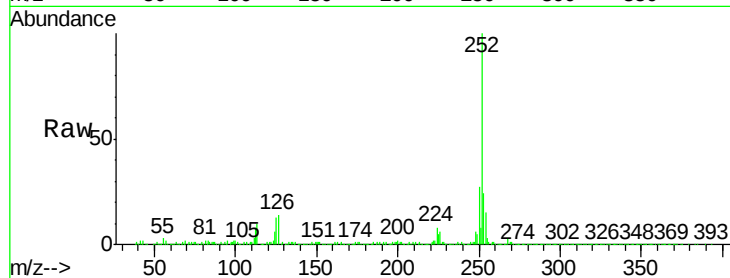
TK3-8-20170227

Tgt Ion: 252 Resp: 1158345

Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.4
125	13.4	9.8	14.6

Manual Integrations
APPROVED

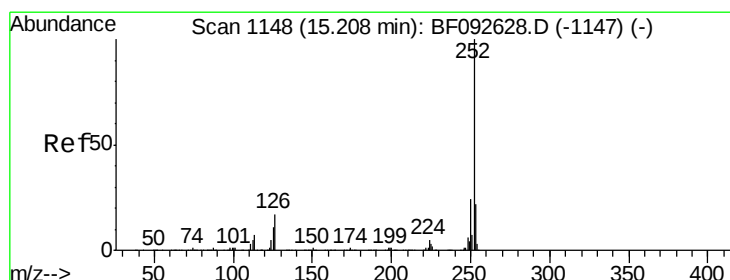
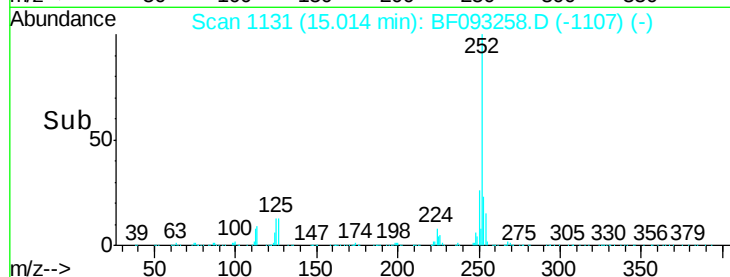
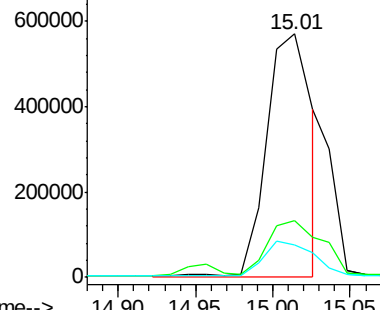
mohammad
3/1/2017 4:06:19 PM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 18.67 ng m

RT: 15.03 min Scan# 1132

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

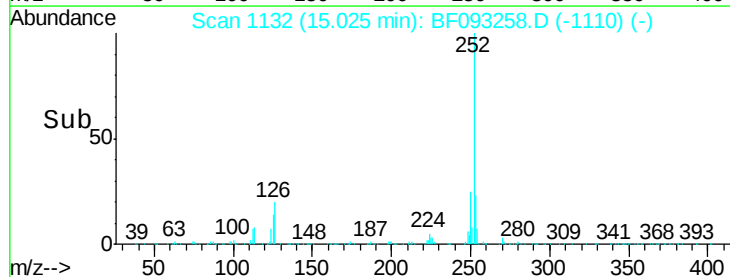
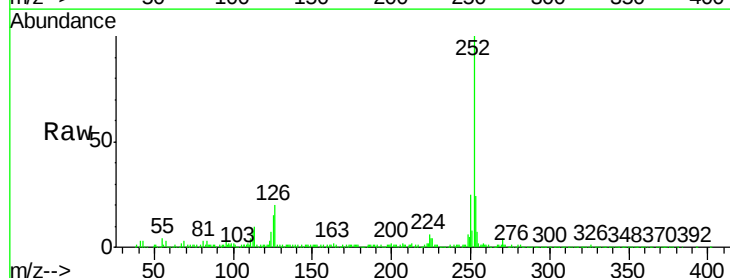
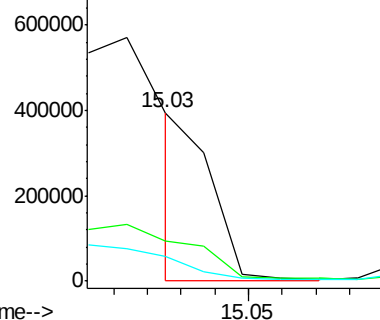
Tgt Ion: 252 Resp: 227184

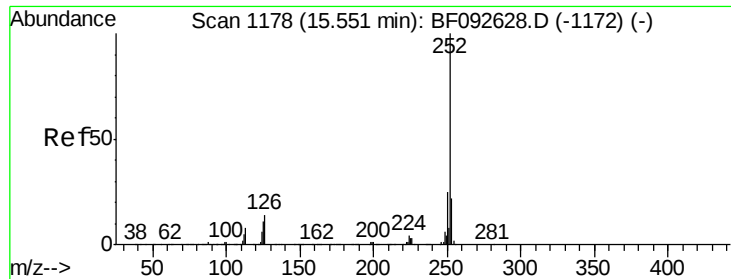
Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.5	27.7
125	15.0	8.9	13.3#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





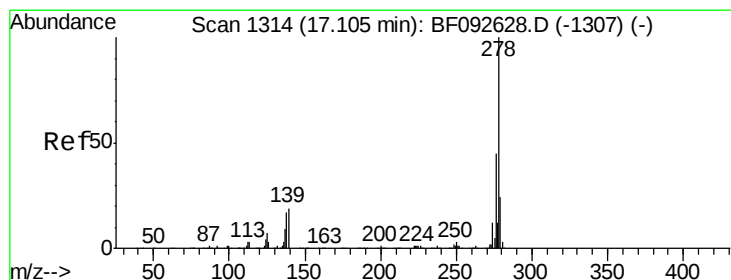
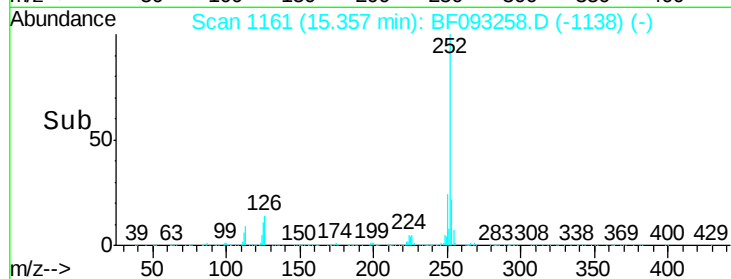
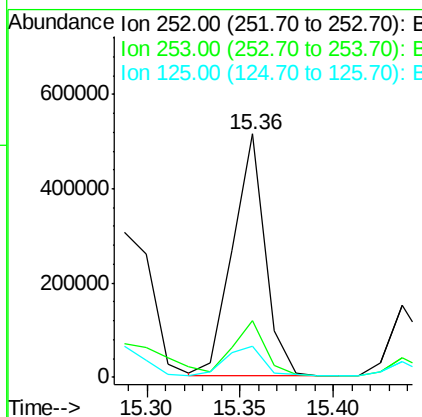
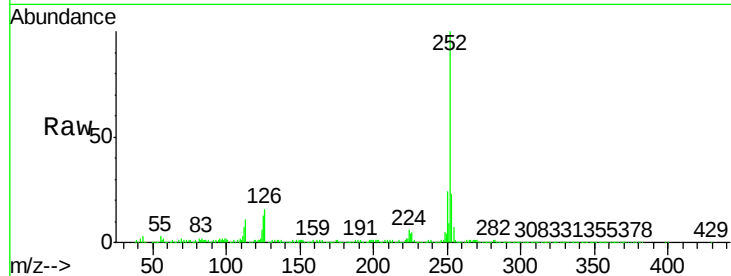
#89
Benzo(a)pyrene
Concen: 51.22 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.03 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Instrument :
BNA_F
ClientSampleId :
TK3-8-20170227

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	624420		
253	23.1	18.2	27.2	
125	12.8	10.0	15.0	

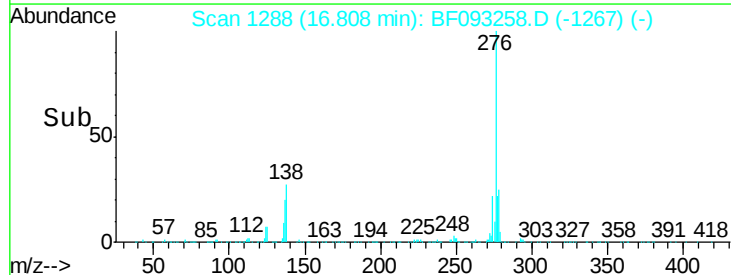
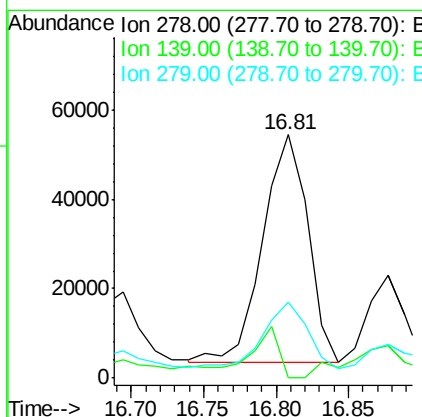
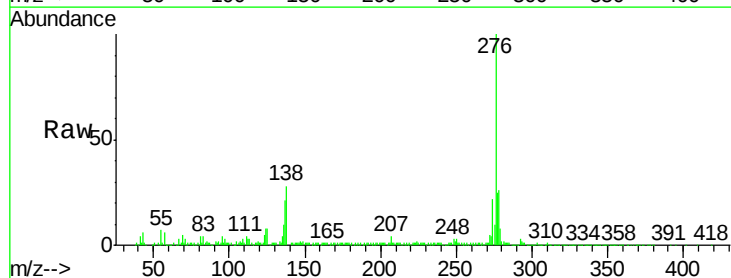
Manual Integrations
APPROVED

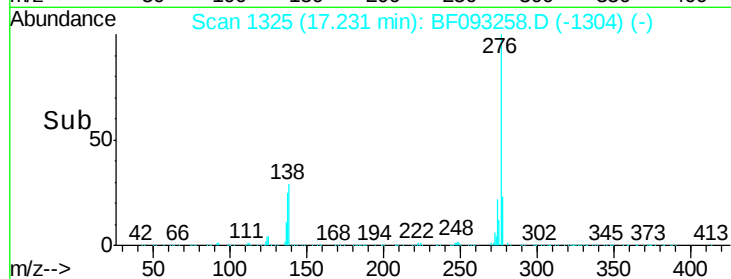
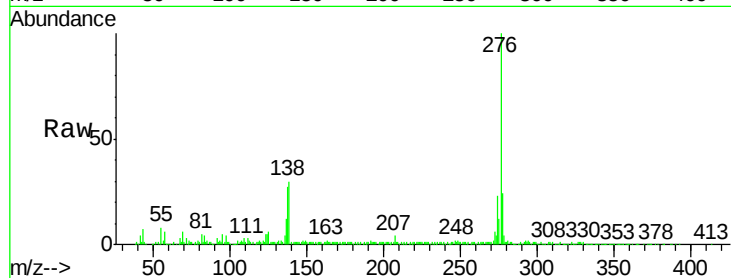
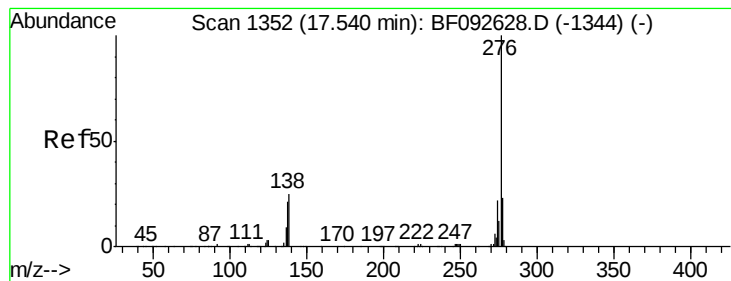
mohammad
3/1/2017 4:06:19 PM



#90
Dibenzo(a,h)anthracene
Concen: 11.06 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.06 min
Lab File: BF093258.D
Acq: 28 Feb 2017 19:43

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	108967		
139	0.0	14.8	22.2#	
279	31.3	19.8	29.6#	





#91

Benzo(g,h,i)perylene

Concen: 37.48 ng

RT: 17.23 min Scan# 1325

Delta R.T. -0.06 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA_F

ClientSampleId :

TK3-8-20170227

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100				
277	24.0	19.2	28.8		
138	29.7	16.0	24.0		

Manual Integrations
APPROVED

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3/1/2017 4:06:19 PM

