

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
 Data File : BF082383.D
 Acq On : 20 Oct 2015 5:31
 Operator : UM/IZ
 Sample : G4051-08DL 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-DUP-20151015DL

Manual Integrations
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MMdadoda
 10/20/2015 6:26:03 PM

Quant Time: Oct 20 08:28:34 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	98771	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	382606	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	182460	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	309430	20.00	ng	-0.03
75) Chrysene-d12	13.99	240	237011	20.00	ng	-0.02
86) Perylene-d12	15.46	264	224532	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	135728	27.73	ng	-0.03
7) Phenol-d6	6.45	99	174660	27.42	ng	-0.03
23) Nitrobenzene-d5	7.37	82	104794	18.39	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	34291	20.04	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	214700	19.51	ng	-0.04
78) Terphenyl-d14	12.93	244	160724	17.97	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	9.71	152	46095	2.70	ng	99
49) Dimethylphthalate	9.57	163	48733	3.79	ng	99
57) Fluorene	10.40	166	25332	2.19	ng	99
70) Phenanthrene	11.36	178	468035	30.86	ng	100
71) Anthracene	11.42	178	101638	6.50	ng	98
72) Carbazole	11.58	167	49355	3.46	ng	99
74) Fluoranthene	12.56	202	593961	36.46	ng	98
77) Pyrene	12.79	202	497944	35.40	ng	99
80) Benzo(a)anthracene	13.99	228	231963	18.81	ng	96
82) Chrysene	14.02	228	203610	15.67	ng	98
85) Indeno(1,2,3-cd)pyrene	16.87	276	101106	9.79	ng	95
87) Benzo(b)fluoranthene	15.05	252	269450m	19.72	ng	
88) Benzo(k)fluoranthene	15.06	252	80797m	7.04	ng	
89) Benzo(a)pyrene	15.40	252	176835	15.06	ng	99
90) Dibenzo(a,h)anthracene	16.88	278	25817	2.68	ng	# 90
91) Benzo(g,h,i)perylene	17.29	276	95642	10.23	ng	95

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

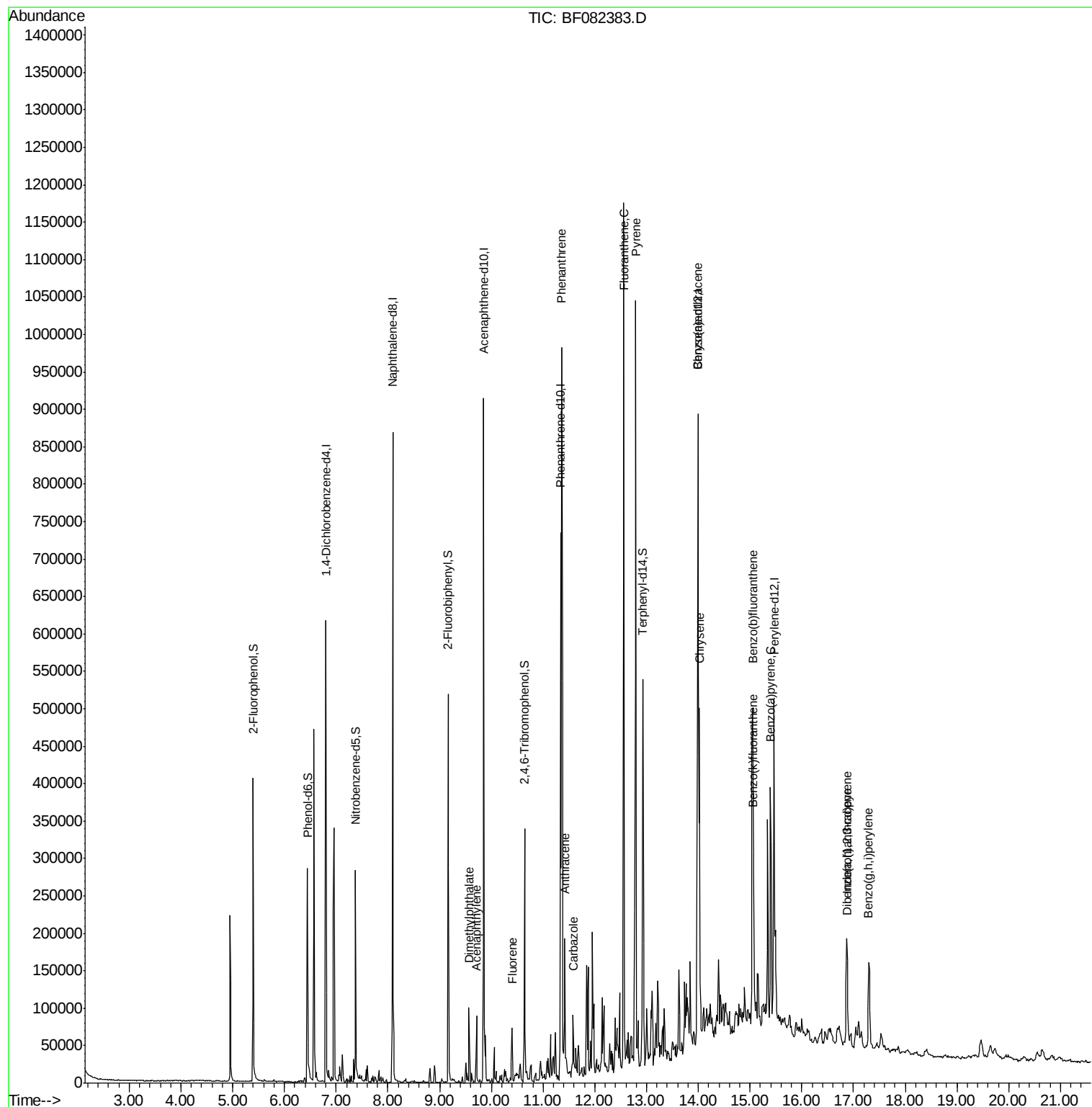
Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\
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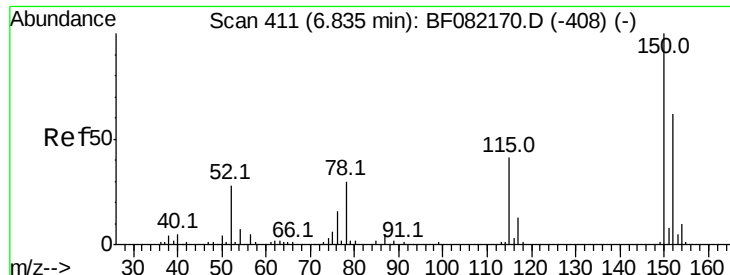
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

ClientSampleId :

TK1-DUP-20151015DL

Tot Ion:152 Resp: 98771

Ion Ratio Lower Upper

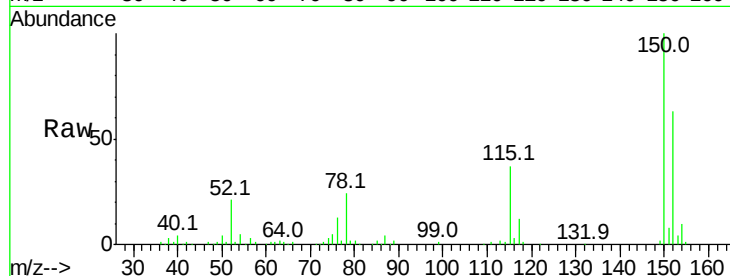
152 100

150 158.8 129.0 193.4

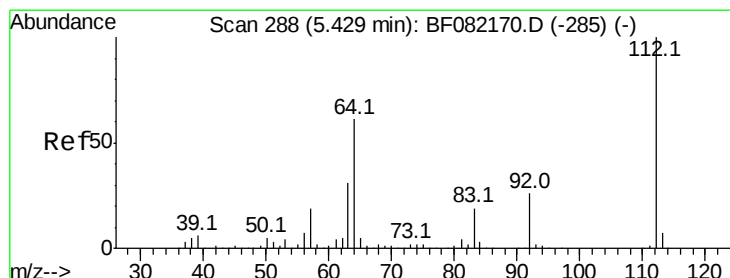
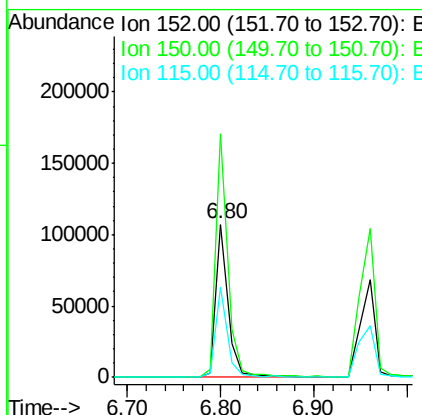
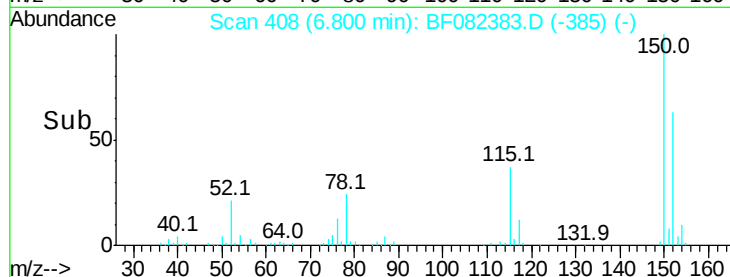
115 58.4 52.1 78.1

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



#5

2-Fluorophenol

Concen: 27.73 ng

RT: 5.39 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

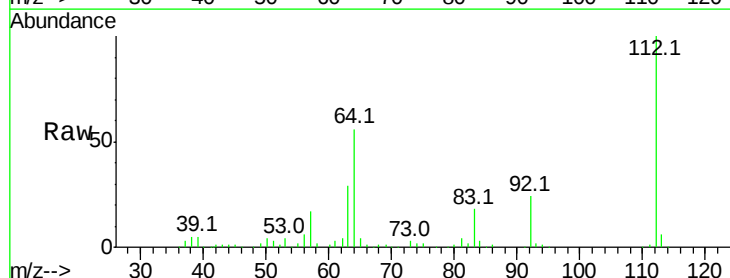
Tgt Ion:112 Resp: 135728

Ion Ratio Lower Upper

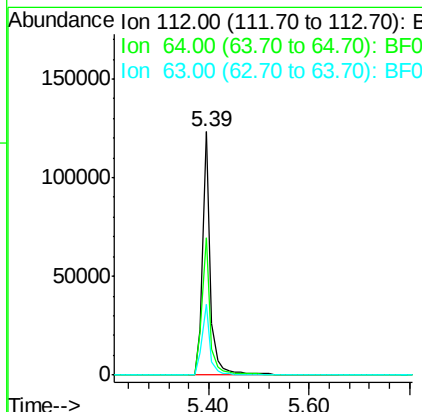
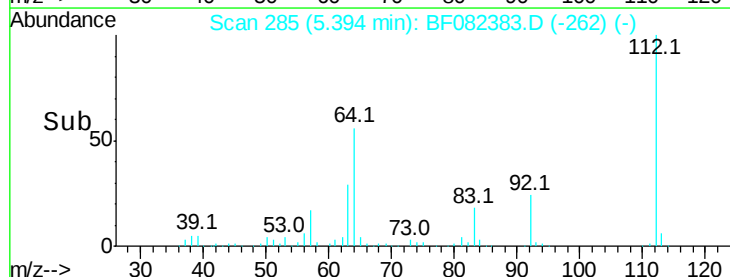
112 100

64 56.5 48.6 73.0

63 29.3 25.1 37.7



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: 27.42 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

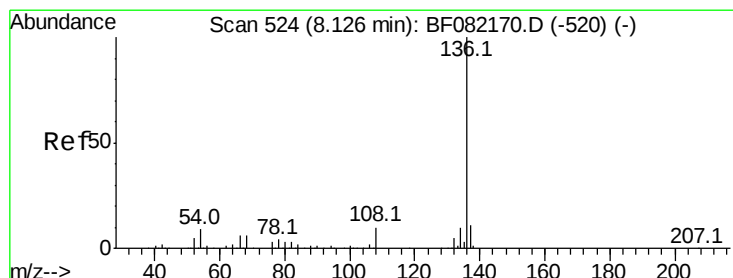
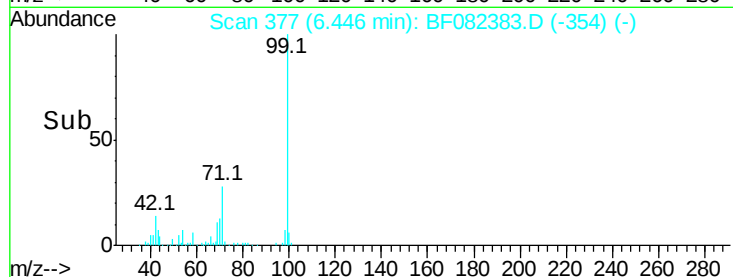
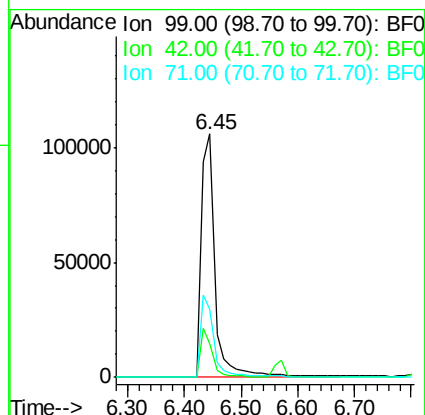
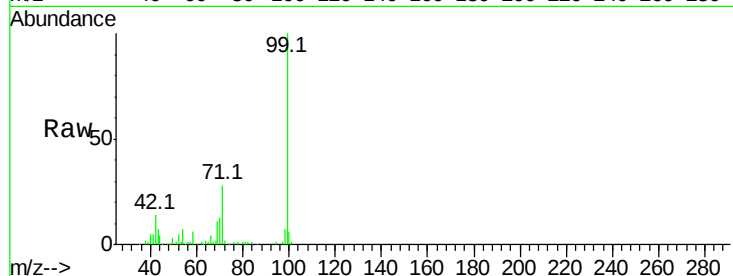
ClientSampleId :

TK1-DUP-20151015DL

Tot Ion:	99	Resp:	174660
Ion Ratio	Lower	Upper	
99	100		
42	13.8	13.2	19.8
71	28.3	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

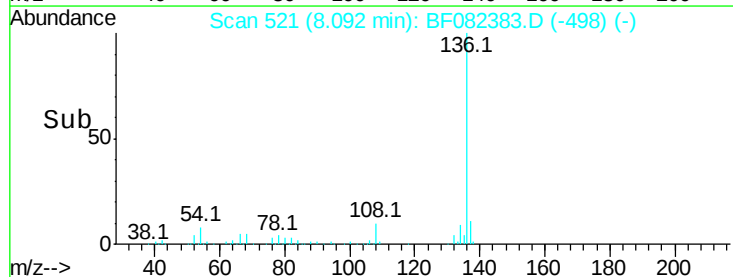
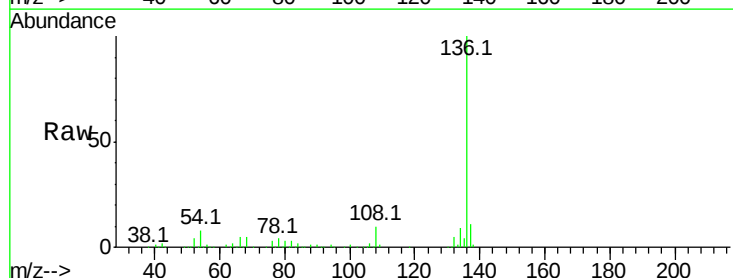
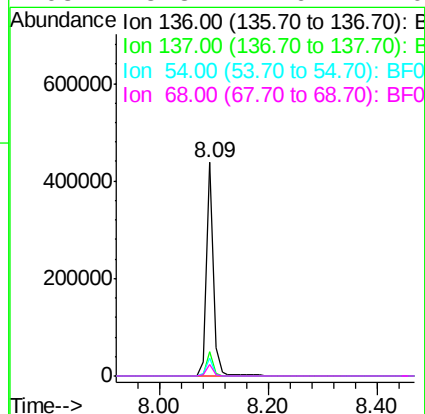
RT: 8.09 min Scan# 521

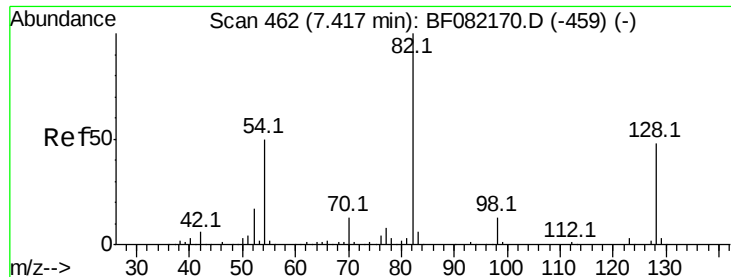
Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion:	136	Resp:	382606
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.0	13.6
54	8.2	7.5	11.3
68	5.3	4.6	7.0





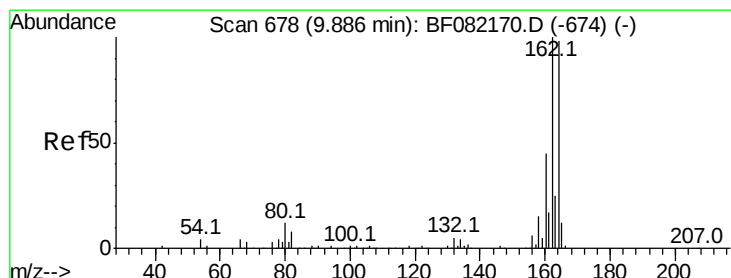
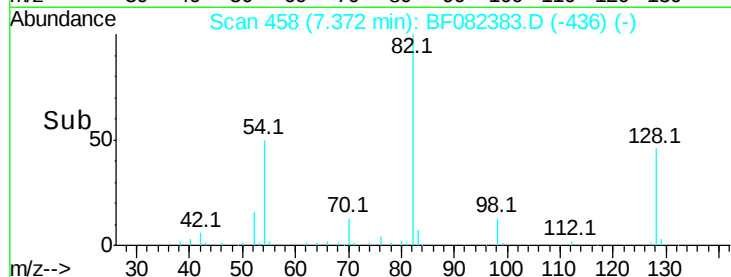
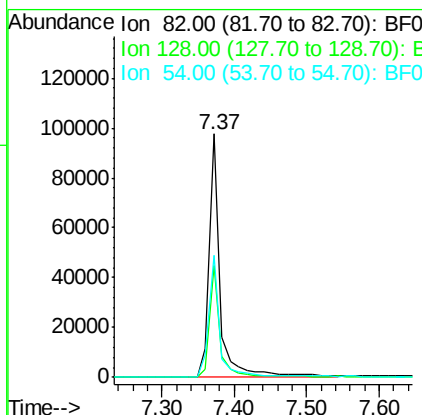
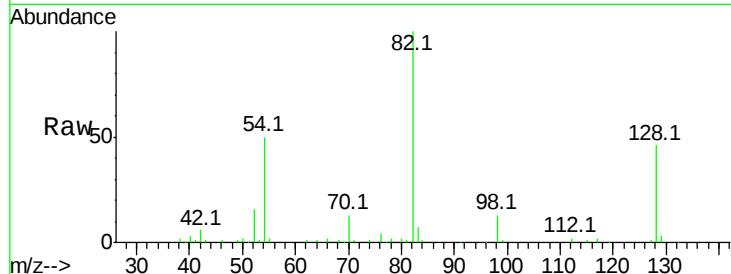
#23
Nitrobenzene-d5
Concen: 18.39 ng
RT: 7.37 min Scan# 458
Delta R.T. -0.05 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Instrument :
BNA_F
ClientSampleId :
TK1-DUP-20151015DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.9	38.7	58.1	
54	49.9	40.1	60.1	

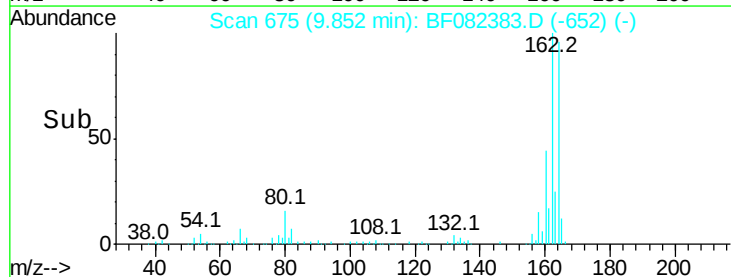
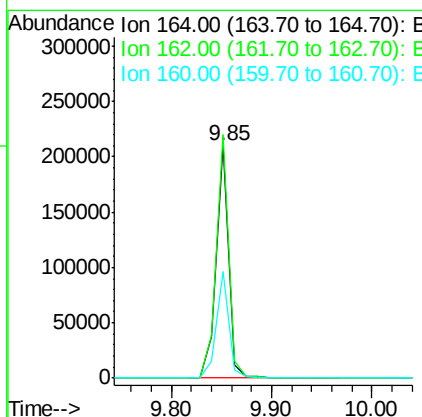
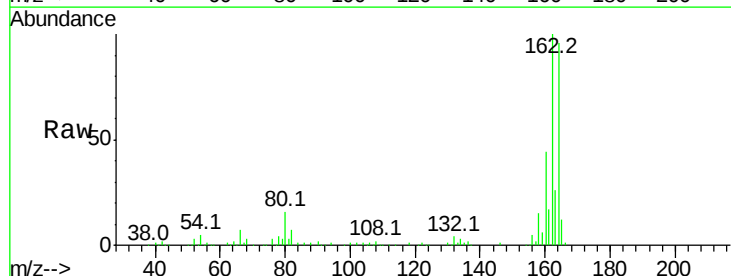
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.85 min Scan# 675
Delta R.T. -0.03 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.4	81.6	122.4	
160	45.6	36.4	54.6	





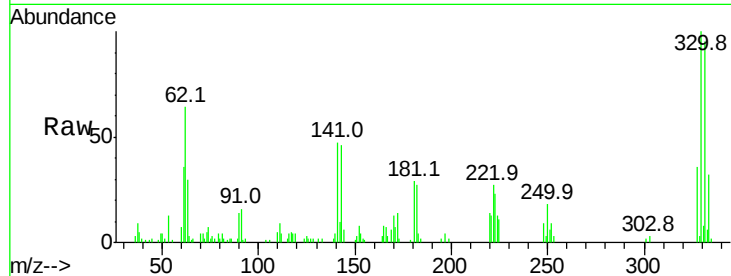
#41
 2,4,6-Tribromophenol
 Concen: 20.04 ng
 RT: 10.64 min Scan# 744
 Delta R.T. -0.03 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Instrument :
 BNA_F
 ClientSampleId :
 TK1-DUP-20151015DL

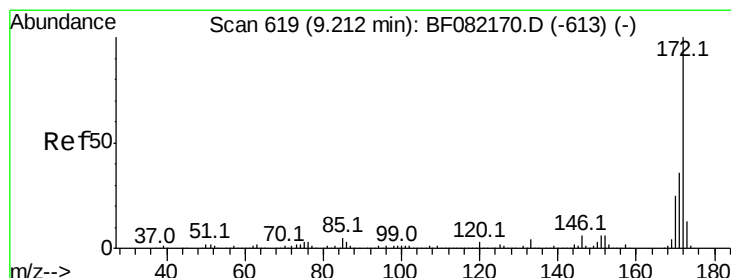
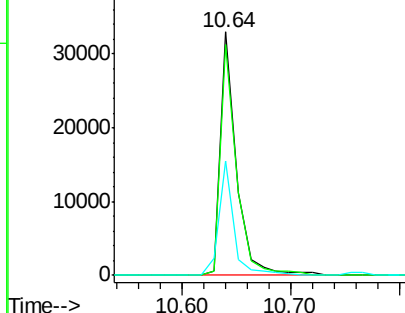
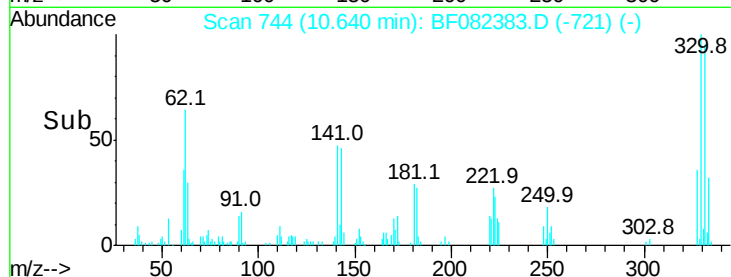
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.2	77.1	115.7	
141	43.7	29.8	44.8	

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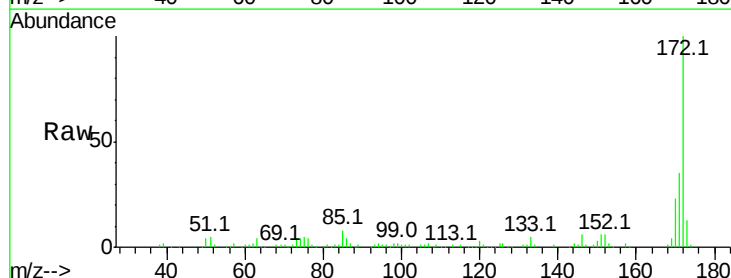


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

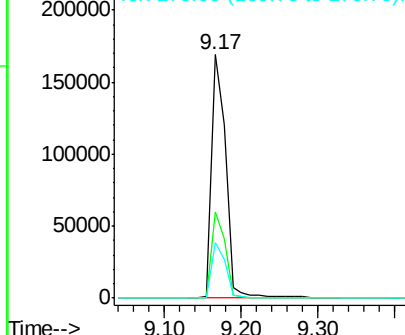
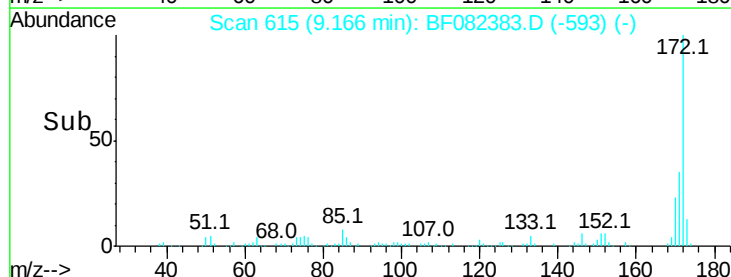


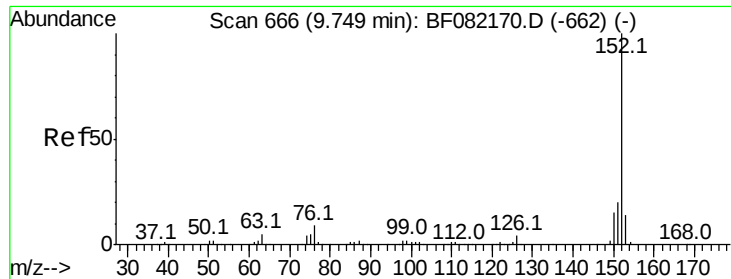
#44
 2-Fluorobiphenyl
 Concen: 19.51 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.04 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.2	28.6	42.8	
170	23.0	19.7	29.5	



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: 2.70 ng

RT: 9.71 min Scan# 663

Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

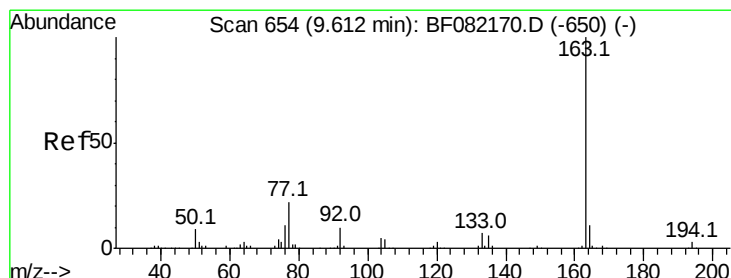
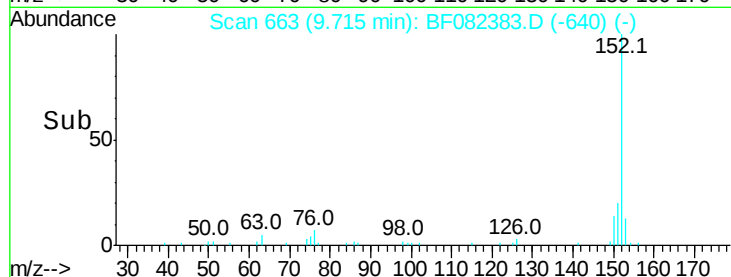
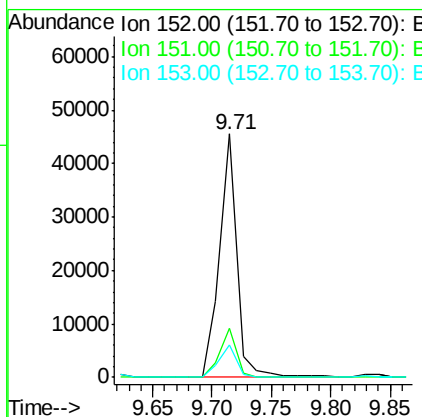
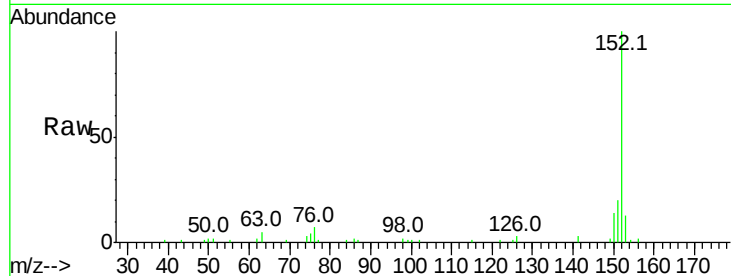
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6
153	13.1	10.8	16.2

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#49

Dimethylphthalate

Concen: 3.79 ng

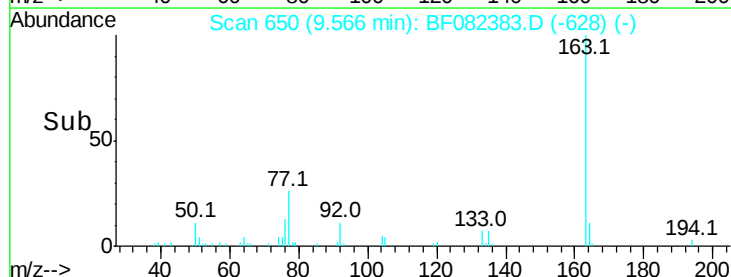
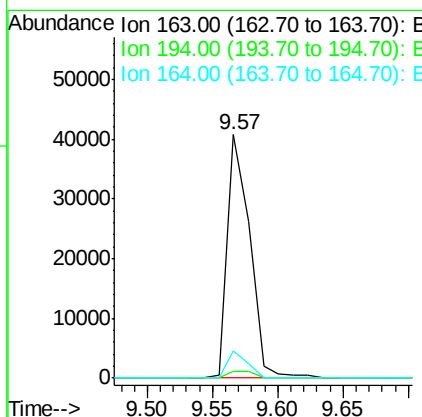
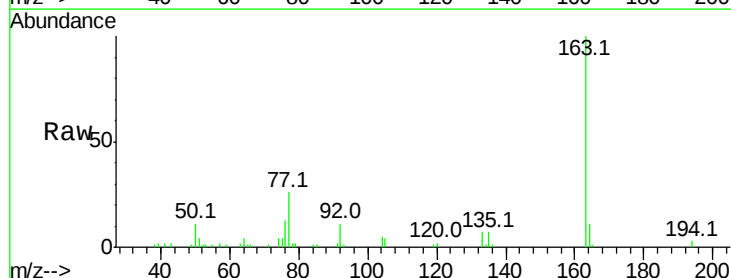
RT: 9.57 min Scan# 650

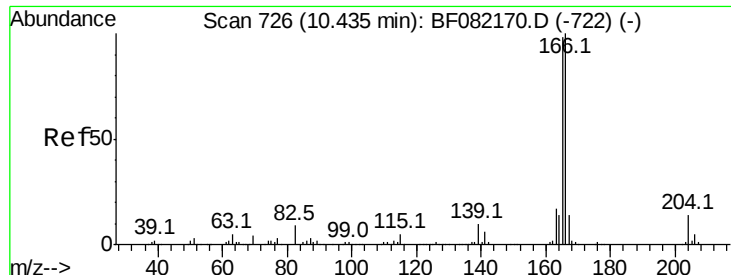
Delta R.T. -0.05 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.6	4.0
164	11.0	8.5	12.7





#57

Fluorene

Concen: 2.19 ng

RT: 10.40 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

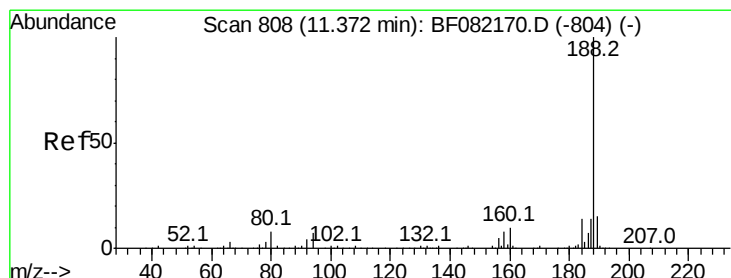
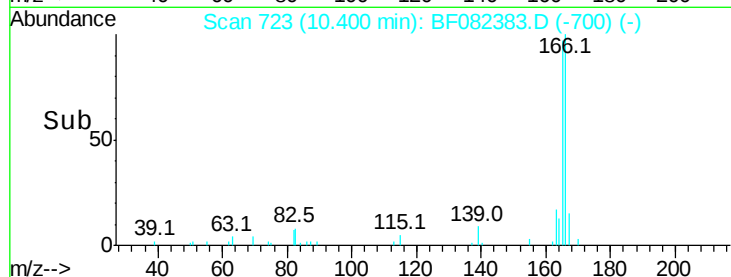
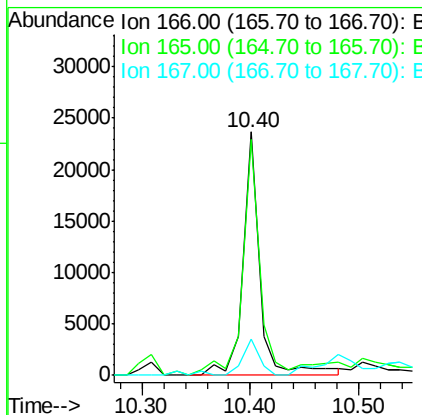
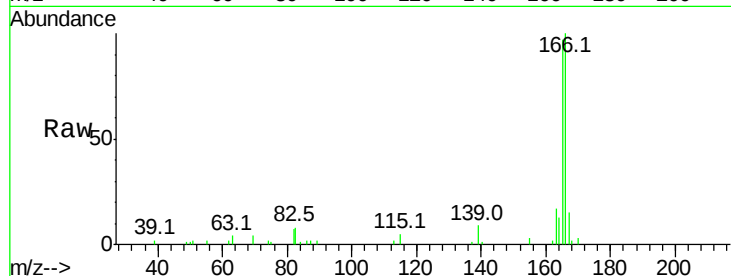
ClientSampleId :

TK1-DUP-20151015DL

Tot Ion:	166	Resp:	25332
Ion Ratio	Lower	Upper	
166	100		
165	96.9	78.3	117.5
167	14.8	10.8	16.2

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

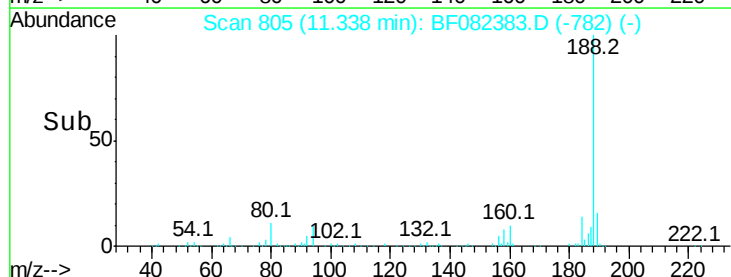
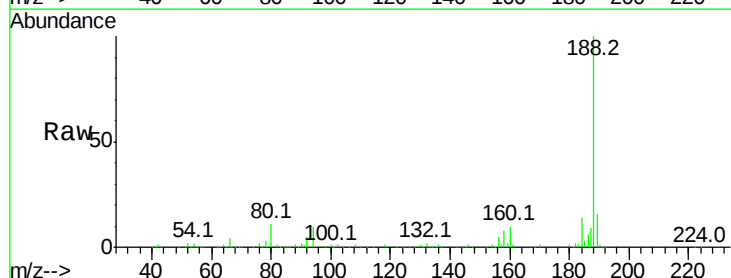
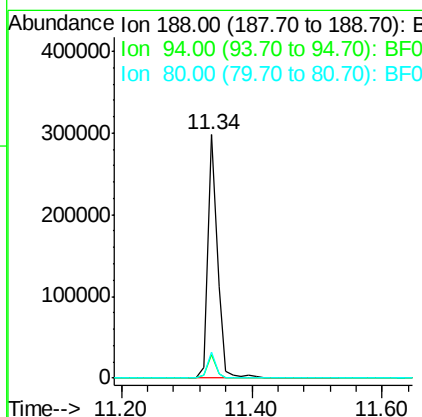
RT: 11.34 min Scan# 805

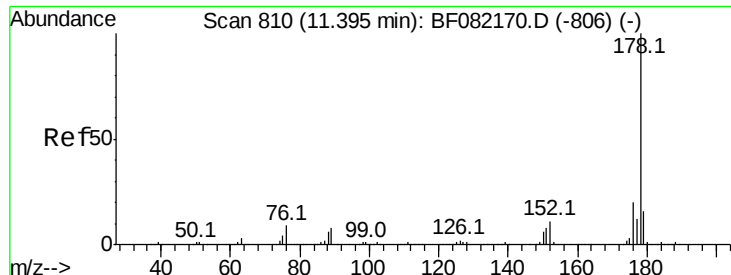
Delta R.T. -0.03 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion:	188	Resp:	309430
Ion Ratio	Lower	Upper	
188	100		
94	9.5	5.8	8.6#
80	10.6	6.4	9.6#





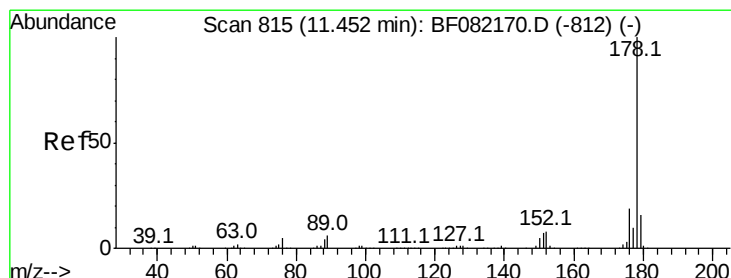
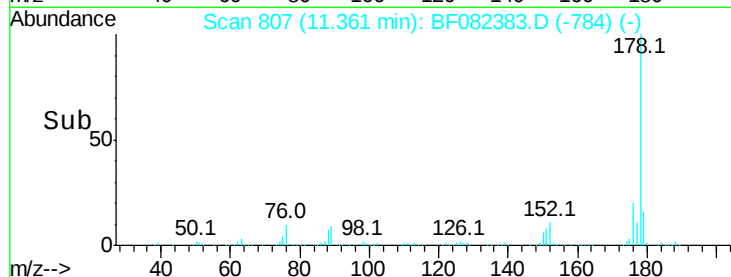
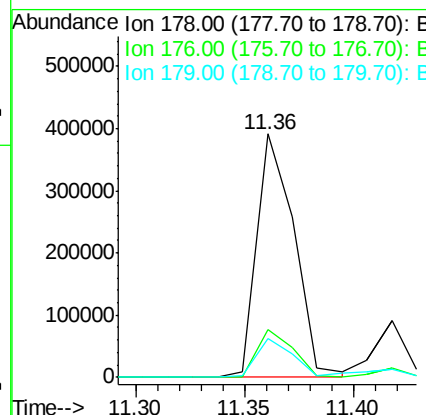
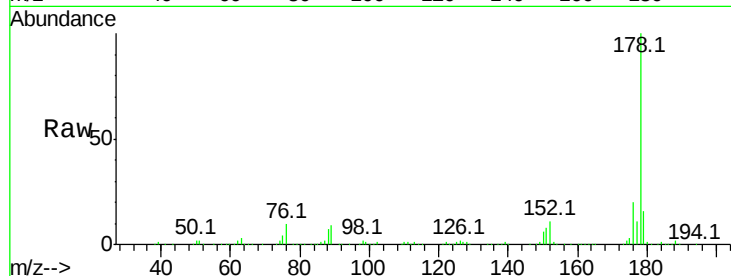
#70
Phenanthrene
Concen: 30.86 ng
RT: 11.36 min Scan# 807
Delta R.T. -0.03 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Instrument :
BNA_F
ClientSampleId :
TK1-DUP-20151015DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.9	12.6	19.0

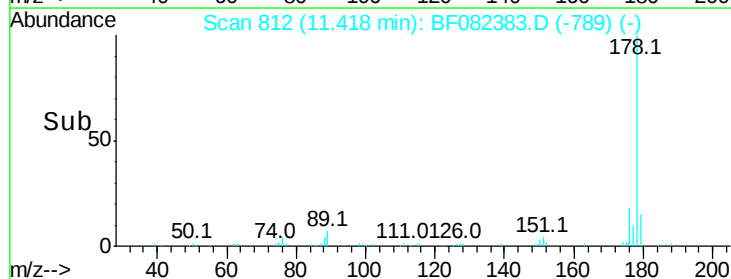
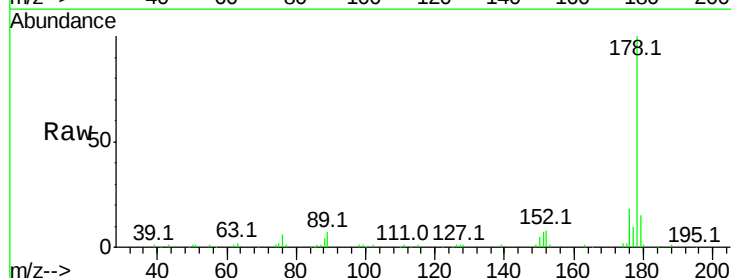
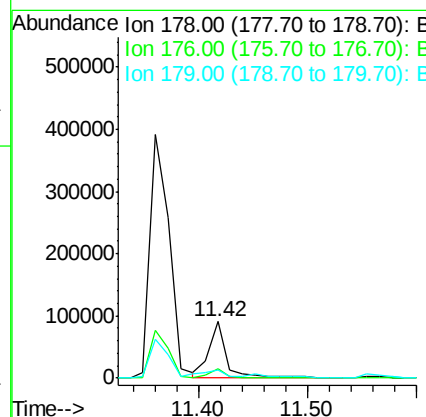
Manual Integrations
APPROVED

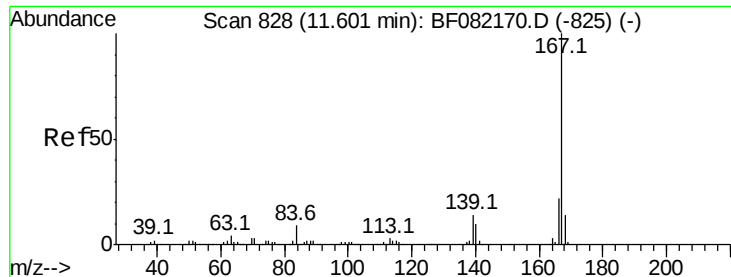
MMdadoda
10/20/2015 6:26:03 PM



#71
Anthracene
Concen: 6.50 ng
RT: 11.42 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.4	23.0
179	15.4	12.5	18.7





#72

Carbazole

Concen: 3.46 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

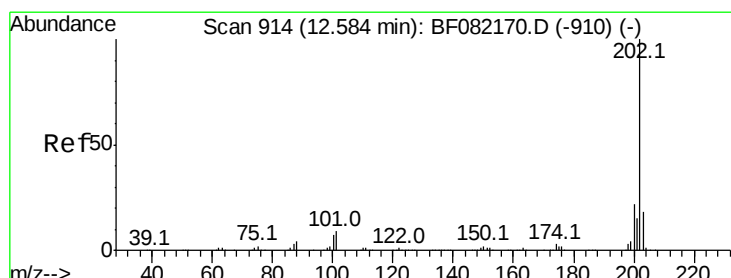
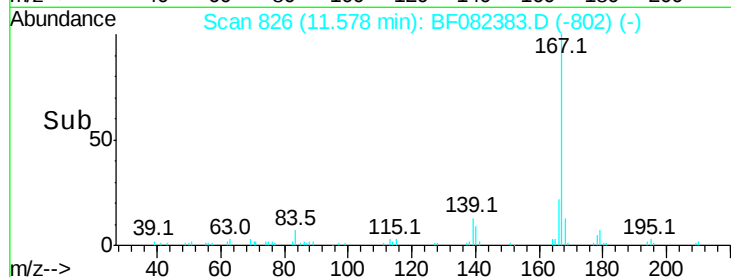
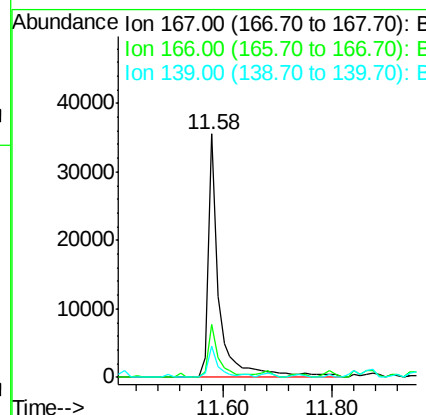
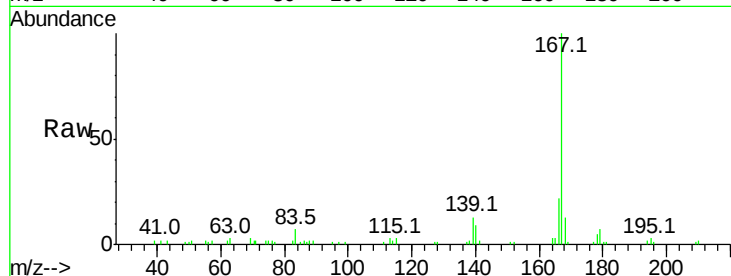
ClientSampleId :

TK1-DUP-20151015DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.8	11.2	16.8

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#74

Fluoranthene

Concen: 36.46 ng

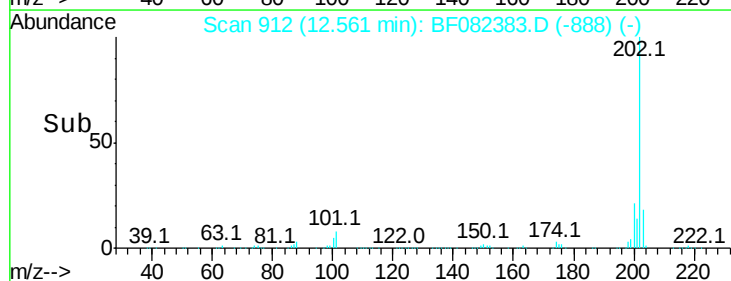
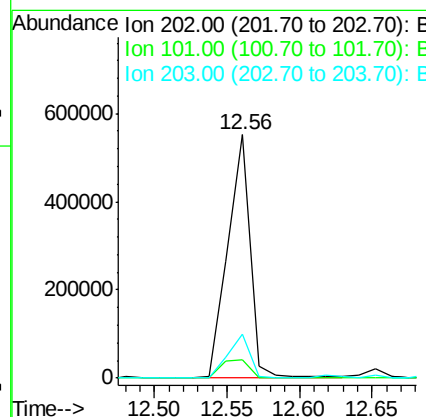
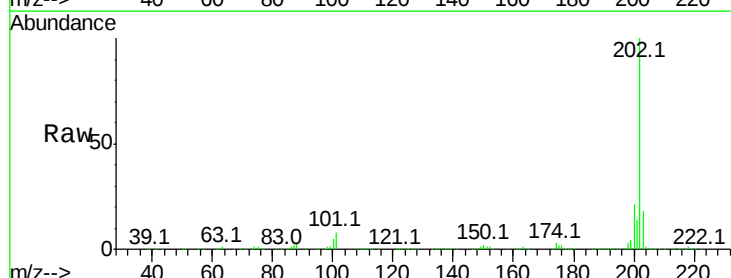
RT: 12.56 min Scan# 912

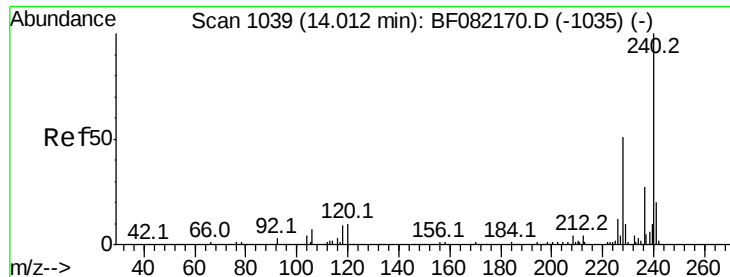
Delta R.T. -0.02 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.6	0.0	29.3
203	17.9	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.99 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

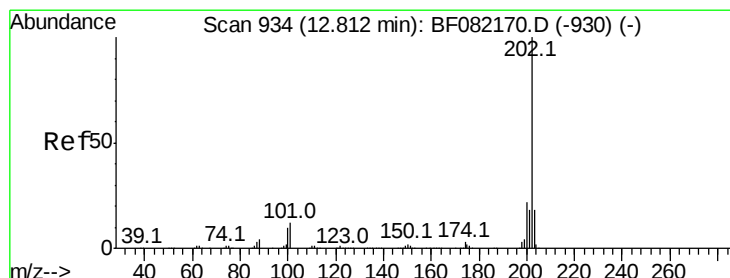
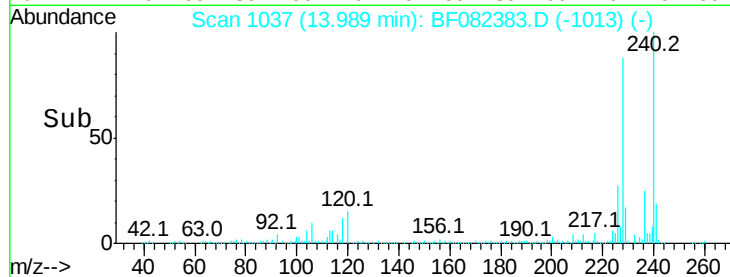
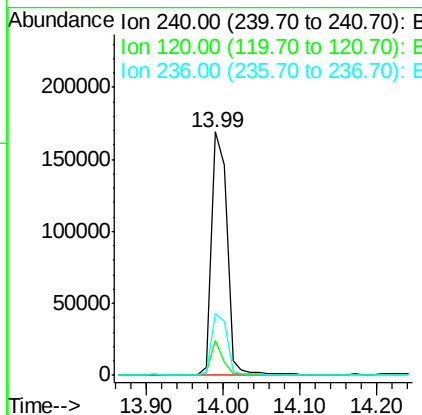
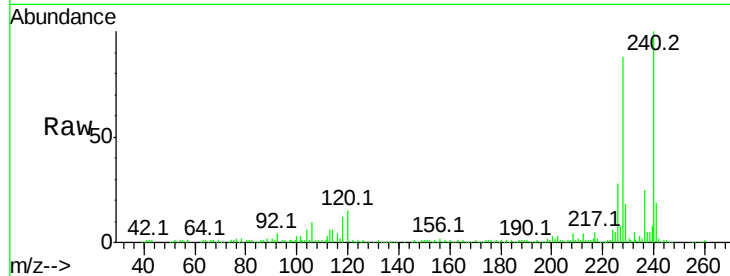
ClientSampleId :

TK1-DUP-20151015DL

Tot Ion:	240	Resp:	237011
Ion Ratio	Lower	Upper	
240	100		
120	14.6	8.1	12.1#
236	25.3	21.3	31.9

Manual Integrations
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#77

Pyrene

Concen: 35.40 ng

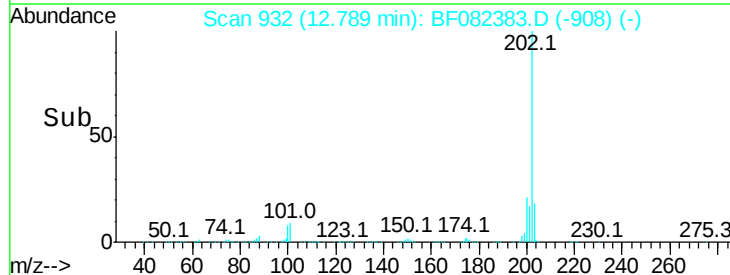
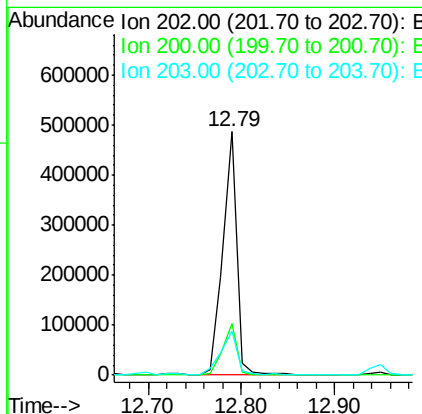
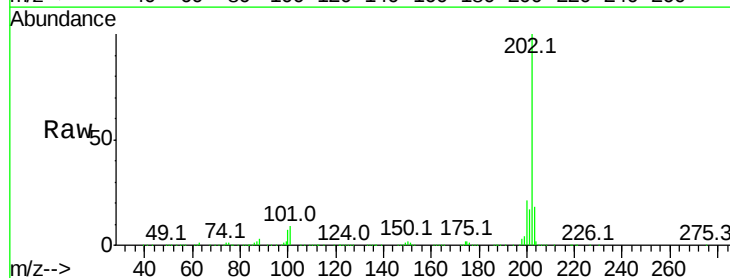
RT: 12.79 min Scan# 932

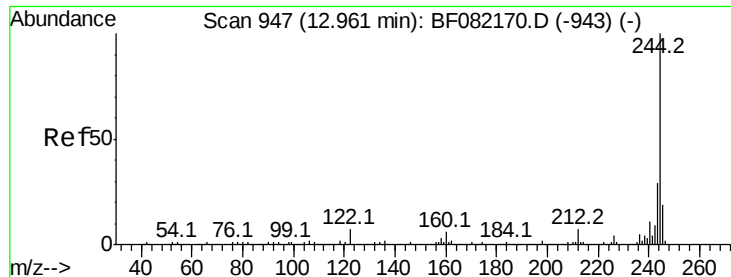
Delta R.T. -0.02 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion:	202	Resp:	497944
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.9	26.9
203	17.8	14.5	21.7





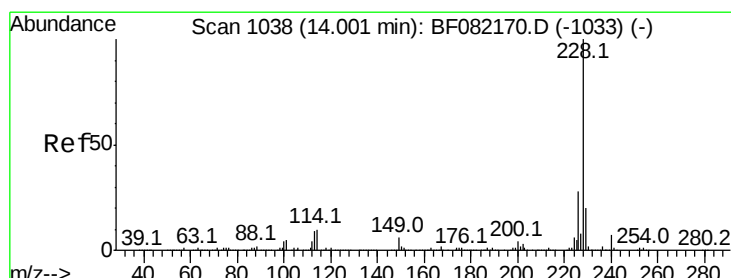
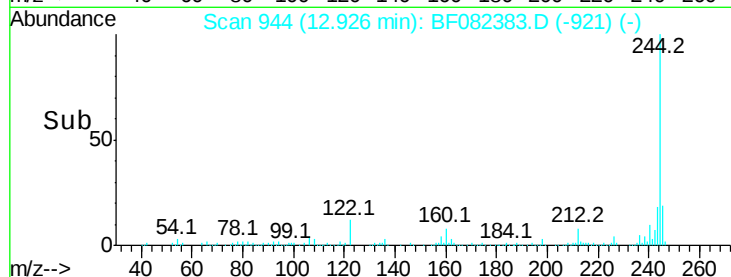
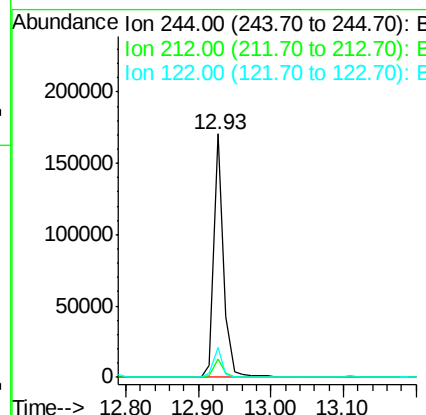
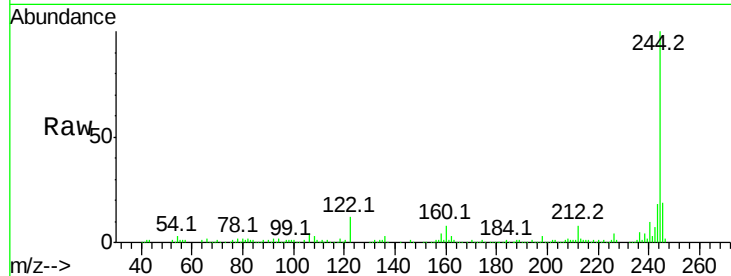
#78
 Terphenyl-d14
 Concen: 17.97 ng
 RT: 12.93 min Scan# 944
 Delta R.T. -0.03 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Instrument :
 BNA_F
 ClientSampleId :
 TK1-DUP-20151015DL

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.7	5.8	8.6
122	12.3	5.9	8.9#

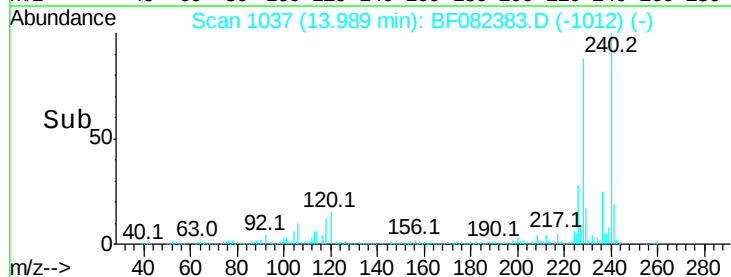
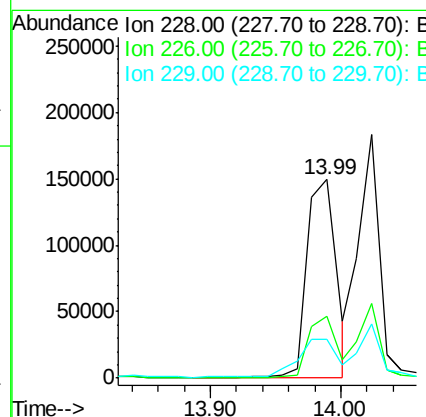
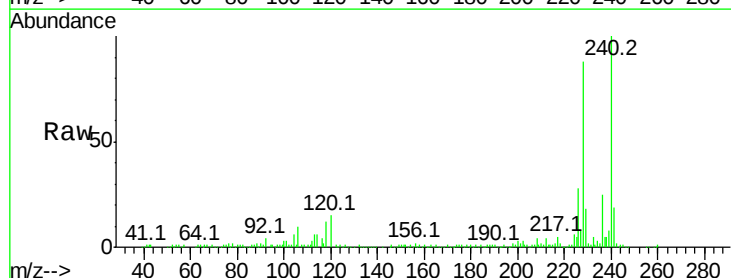
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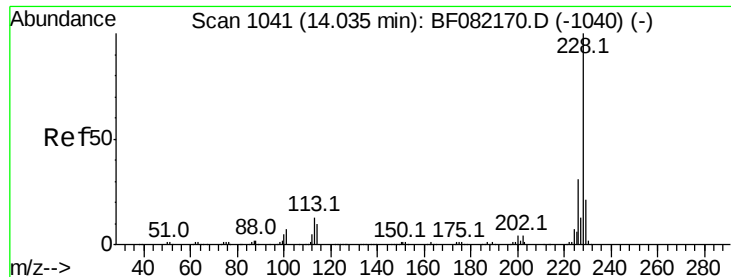
MMdadoda
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#80
 Benzo(a)anthracene
 Concen: 18.81 ng
 RT: 13.99 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	31.5	22.3	33.5
229	19.9	16.2	24.2





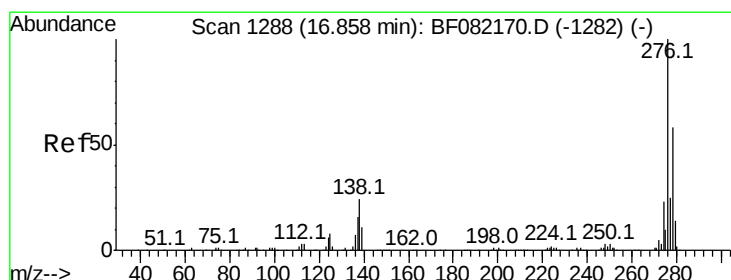
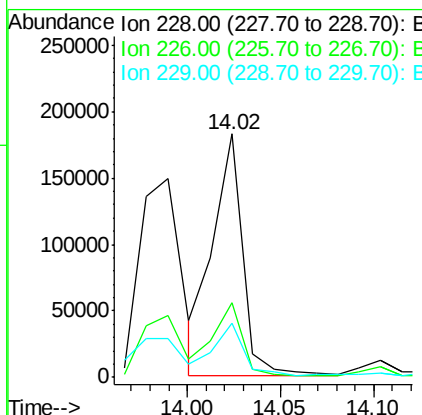
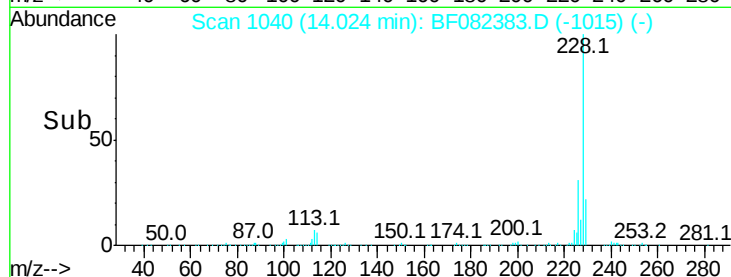
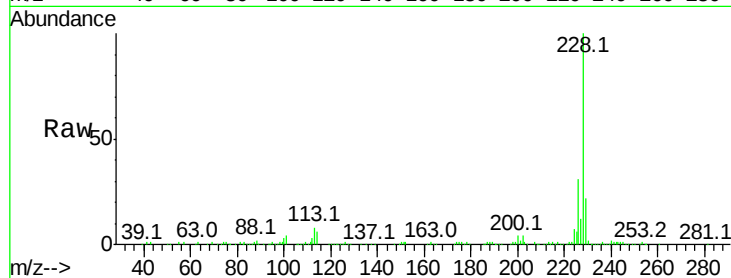
#82
Chrysene
Concen: 15.67 ng
RT: 14.02 min Scan# 1040
Delta R.T. -0.01 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Instrument :
BNA_F
ClientSampleId :
TK1-DUP-20151015DL

Tot Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.8	24.4	36.6
229	22.4	16.3	24.5

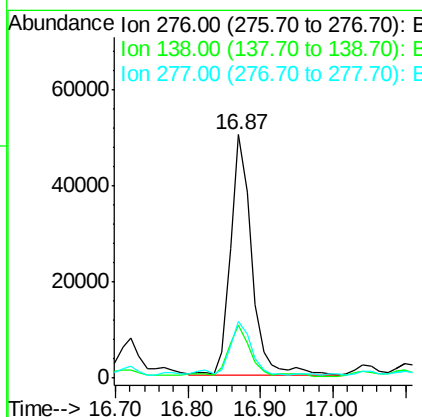
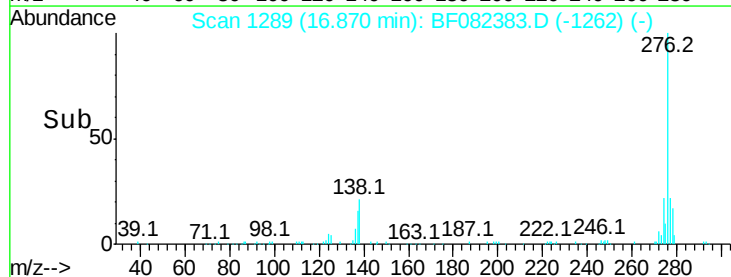
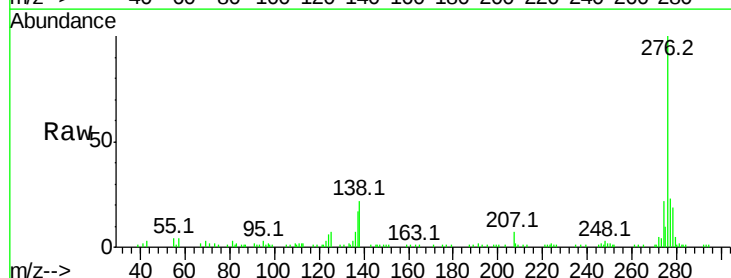
Manual Integrations
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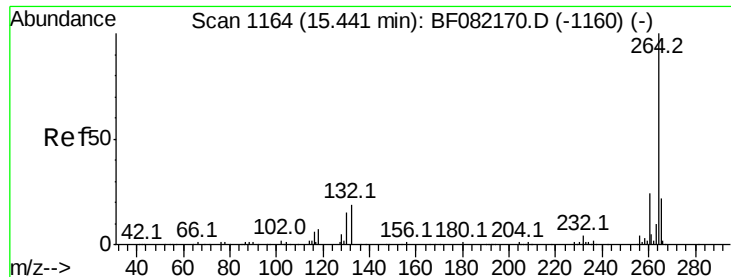
MMdadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 9.79 ng
RT: 16.87 min Scan# 1289
Delta R.T. 0.01 min
Lab File: BF082383.D
Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	20.7	19.7	29.5
277	23.5	20.1	30.1





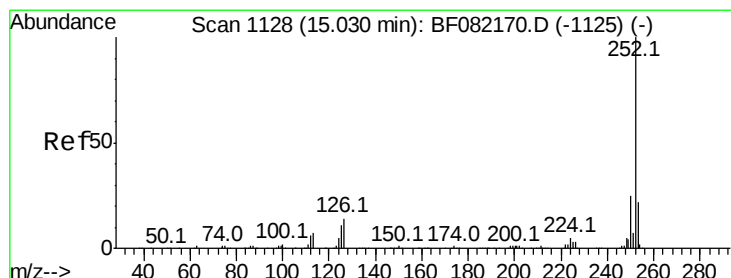
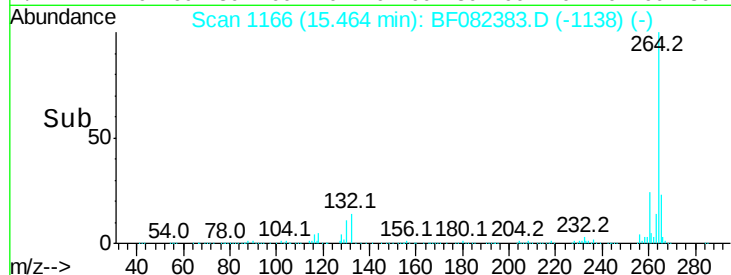
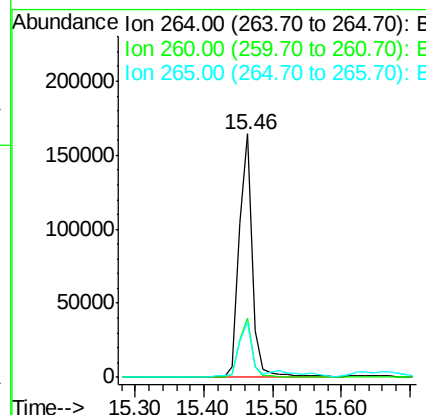
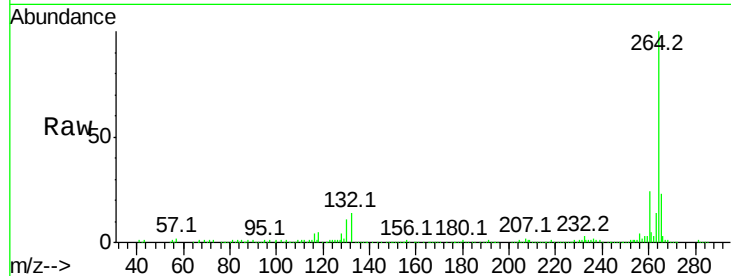
#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 15.46 min Scan# 1166
 Delta R.T. 0.02 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Instrument :
 BNA_F
 ClientSampleId :
 TK1-DUP-20151015DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.6
265	22.8	17.3	25.9

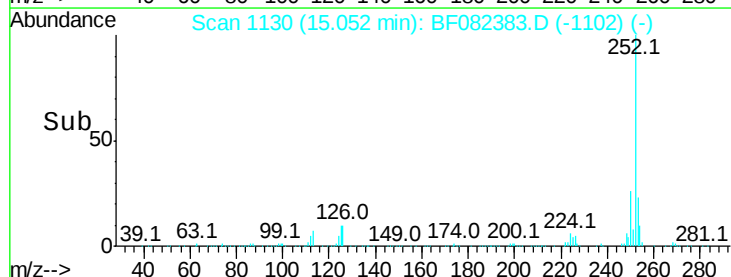
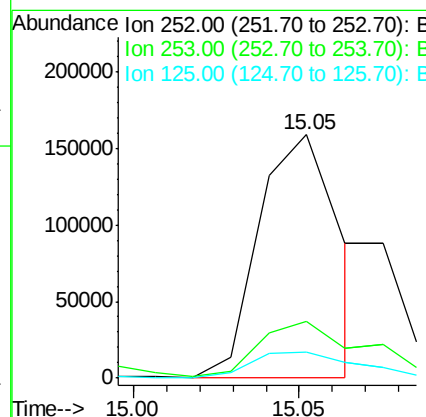
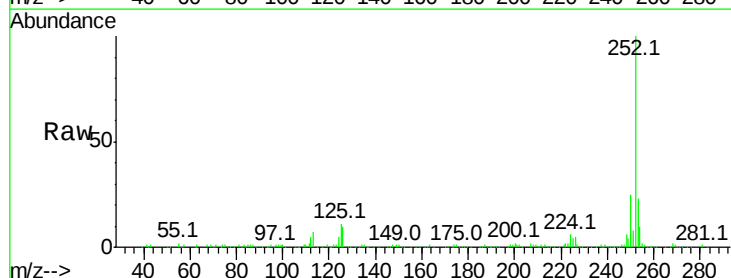
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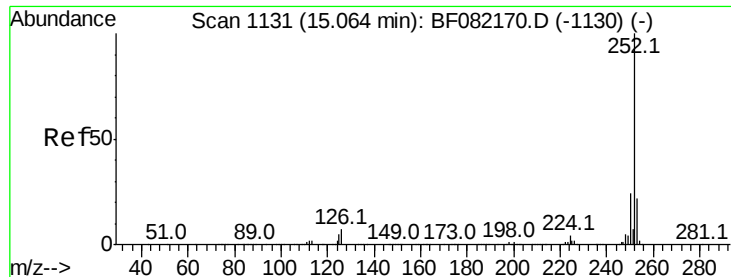
MMdadoda
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#87
 Benzo(b)fluoranthene
 Concen: 19.72 ng m
 RT: 15.05 min Scan# 1130
 Delta R.T. 0.02 min
 Lab File: BF082383.D
 Acq: 20 Oct 2015 5:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	10.7	8.6	12.8





#88

Benzo(k)fluoranthene

Concen: 7.04 ng m

RT: 15.06 min Scan# 1131

Delta R.T. -0.00 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

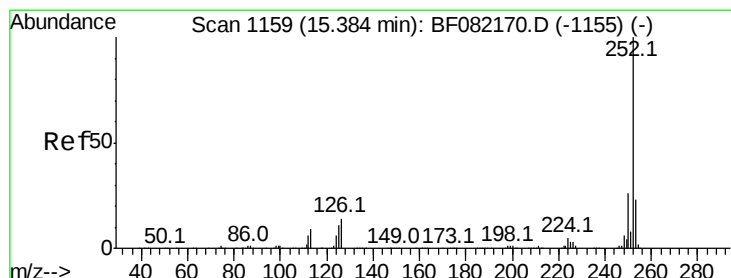
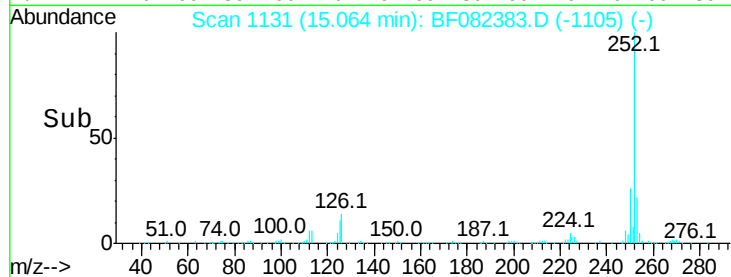
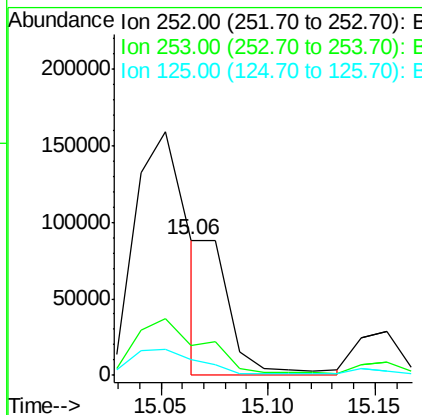
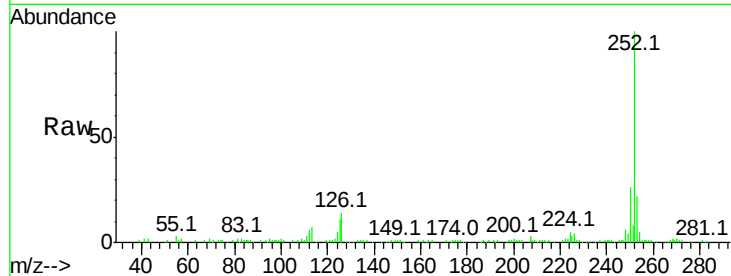
ClientSampleId :

TK1-DUP-20151015DL

Tot Ion:	252	Resp:	80797
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.8	26.6
125	11.3	6.7	10.1#

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 15.06 ng

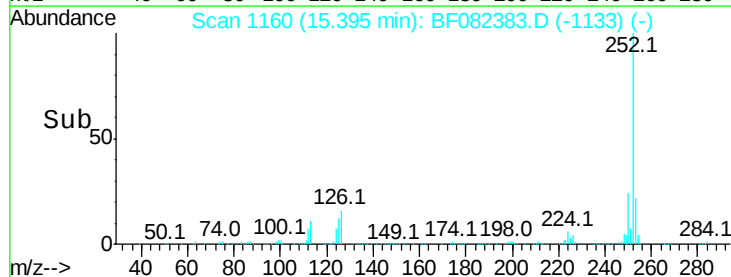
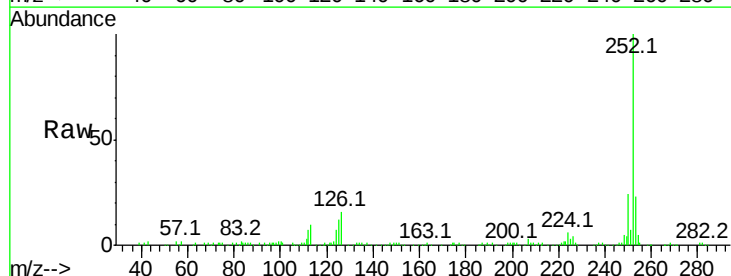
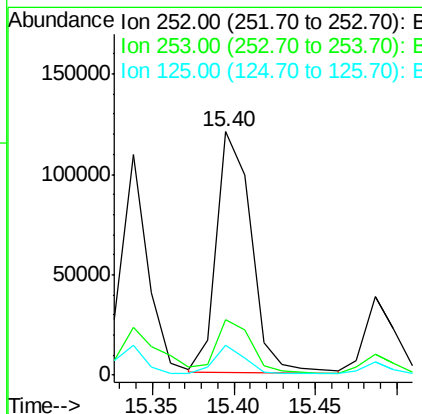
RT: 15.40 min Scan# 1160

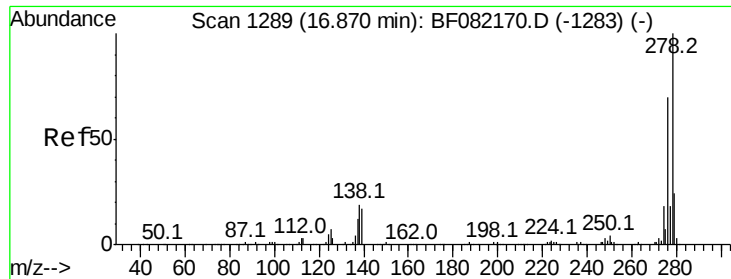
Delta R.T. 0.01 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion:	252	Resp:	176835
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.2	27.2
125	12.0	8.9	13.3





#90

Dibenzo(a,h)anthracene

Concen: 2.68 ng

RT: 16.88 min Scan# 1290

Delta R.T. 0.01 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Instrument :

BNA_F

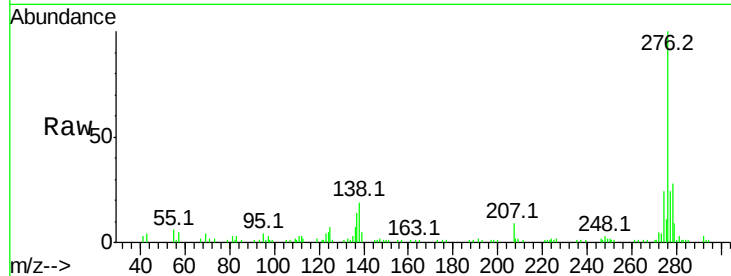
ClientSampleId :

TK1-DUP-20151015DL

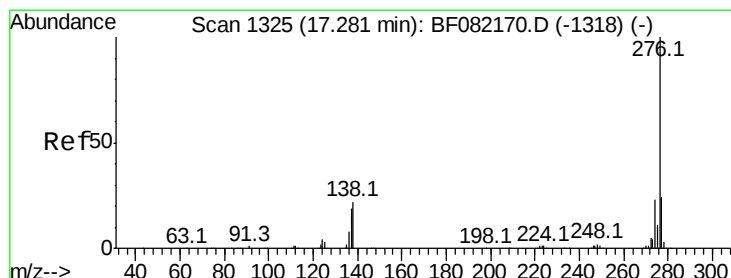
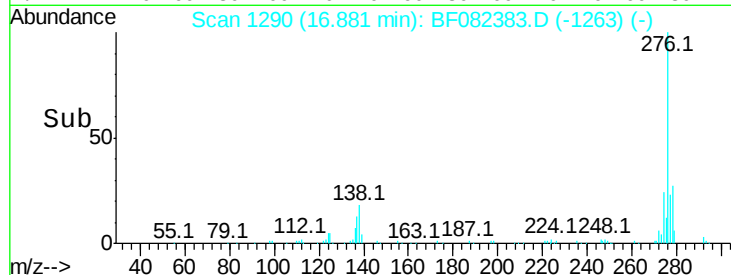
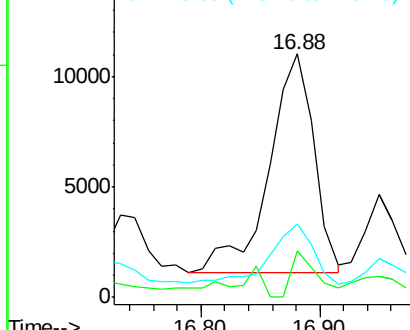
Tot Ion:278	Resp:	25817
Ion Ratio	Lower	Upper
278 100		
139 19.3	13.3	19.9
279 30.1	18.9	28.3#

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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.23 ng

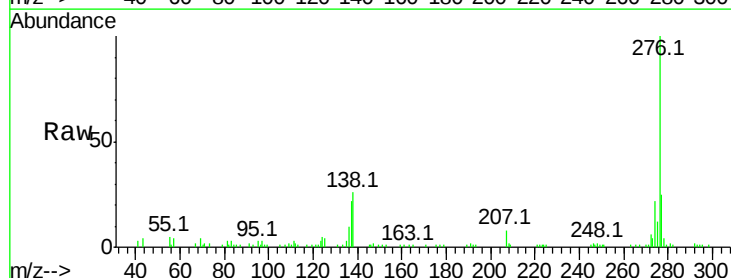
RT: 17.29 min Scan# 1326

Delta R.T. 0.01 min

Lab File: BF082383.D

Acq: 20 Oct 2015 5:31

Tgt Ion:276	Resp:	95642
Ion Ratio	Lower	Upper
276 100		
277 24.7	18.8	28.2
138 25.7	17.4	26.2



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

