

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083438.D
 Acq On : 3 Dec 2015 2:19
 Operator : UM/IZ
 Sample : G4582-14 20X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP1-112415

Manual Integrations
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Quant Time: Dec 03 06:42:35 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.53	152	133342	20.00	ng	-0.01
21) Naphthalene-d8	7.84	136	529943	20.00	ng	0.00
38) Acenaphthene-d10	9.57	164	250793	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	432909	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	309940	20.00	ng	-0.02
86) Perylene-d12	16.81	264	313241	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	47236	5.32	ng	0.01
7) Phenol-d6	6.22	99	77200	6.35	ng	0.00
23) Nitrobenzene-d5	7.12	82	47356	3.93	ng	-0.01
41) 2,4,6-Tribromophenol	10.37	330	12203	4.85	ng	-0.01
44) 2-Fluorobiphenyl	8.91	172	79132	4.50	ng	-0.01
78) Terphenyl-d14	13.21	244	58706	4.52	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.86	128	3195686	111.14	ng	98
37) 2-Methylnaphthalene	8.54	142	455270	23.69	ng	98
45) 1,1'-Biphenyl	9.00	154	151545	6.89	ng	94
48) Acenaphthylene	9.44	152	267063	9.99	ng	98
51) Acenaphthene	9.61	154	535562	34.06	ng	98
54) Dibenzofuran	9.78	168	46438	2.02	ng	# 73
57) Fluorene	10.12	166	271132m	14.90	ng	
70) Phenanthrene	11.15	178	1550753	60.53	ng	97
71) Anthracene	11.21	178	537686	20.85	ng	99
74) Fluoranthene	12.66	202	1110566	41.82	ng	94
77) Pyrene	12.97	202	1595666	73.72	ng	98
80) Benzo(a)anthracene	14.73	228	526323m	27.72	ng	
82) Chrysene	14.77	228	579291m	31.58	ng	
85) Indeno(1,2,3-cd)pyrene	18.18	276	461242	34.52	ng	94
87) Benzo(b)fluoranthene	16.29	252	780684m	38.84	ng	
88) Benzo(k)fluoranthene	16.33	252	183084m	9.65	ng	
89) Benzo(a)pyrene	16.73	252	712867	41.29	ng	# 96
90) Dibenzo(a,h)anthracene	18.20	278	104557	6.95	ng	98
91) Benzo(a,h,i)perylene	18.56	276	553410	37.48	ng	98

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

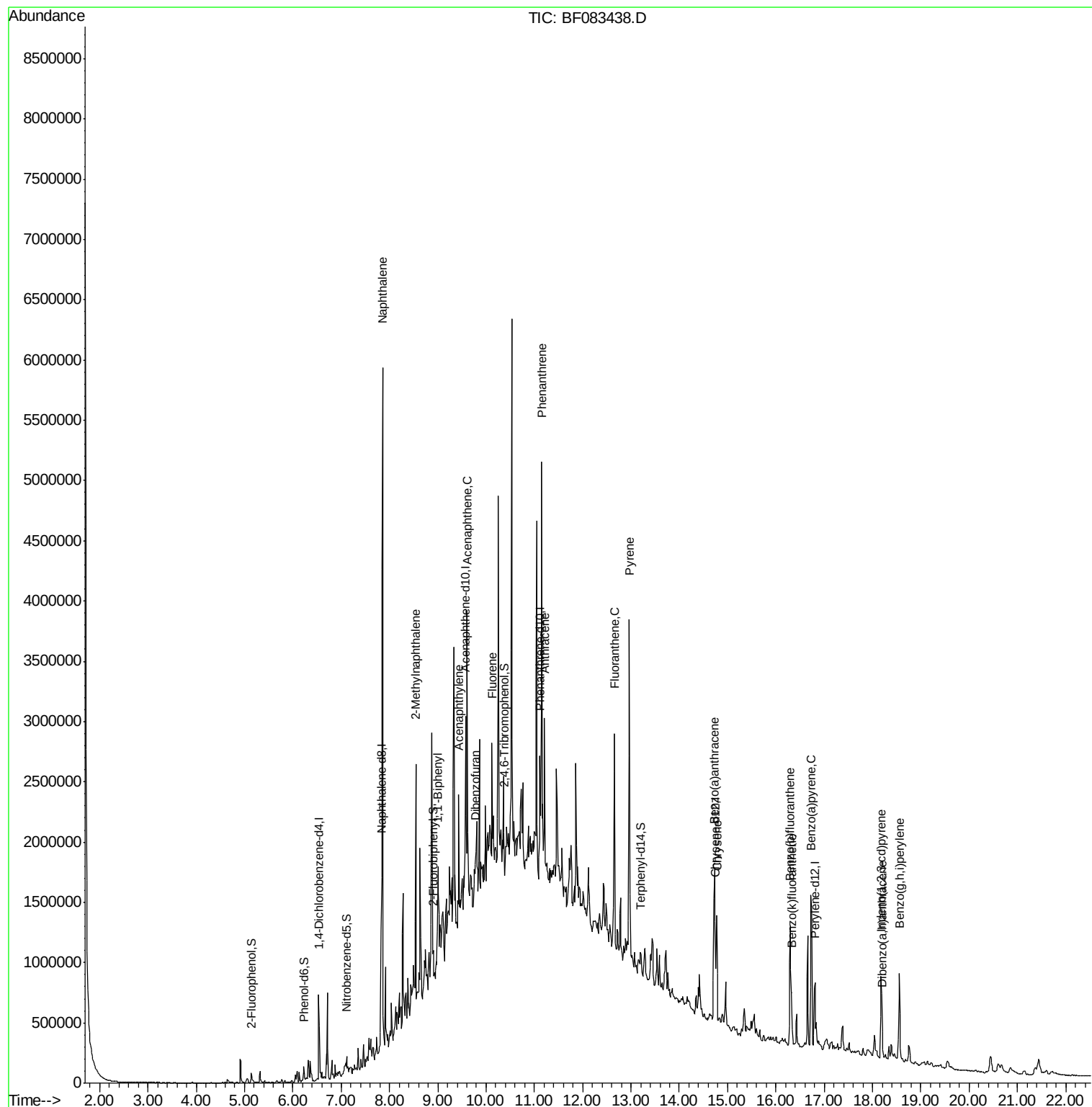
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
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ALS Vial : 25 Sample Multiplier: 1

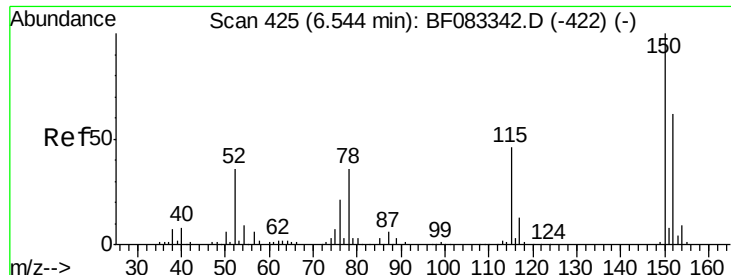
Instrument :
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ClientSampleId :
DUP1-112415

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Quant Time: Dec 03 06:42:35 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

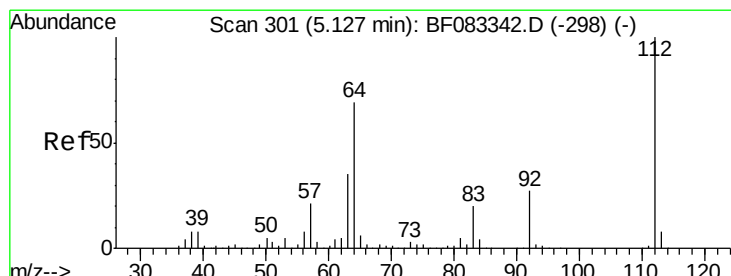
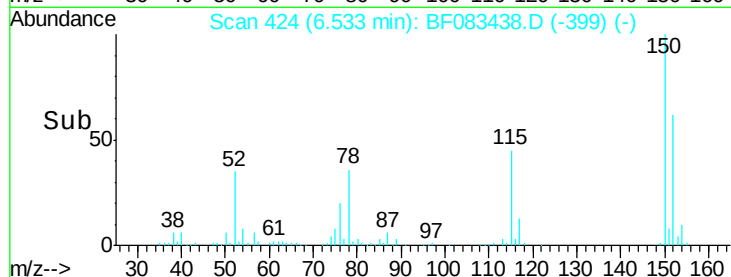
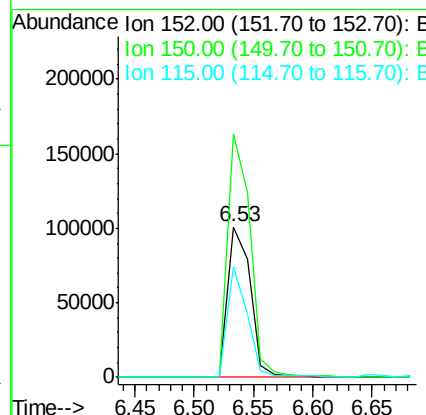
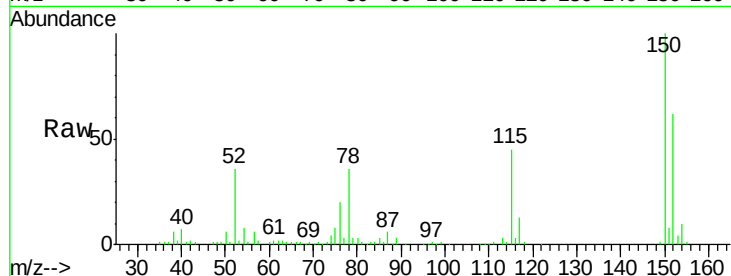
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.53 min Scan# 424
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
150	161.8	129.8	194.8	
115	73.2	59.2	88.8	

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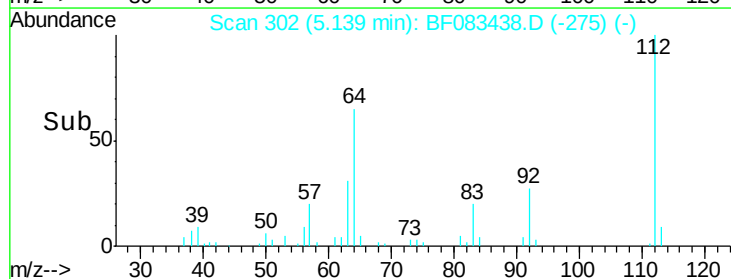
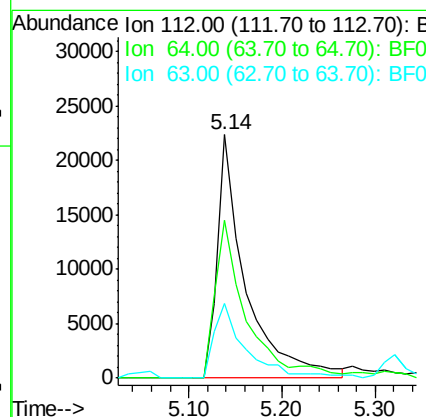
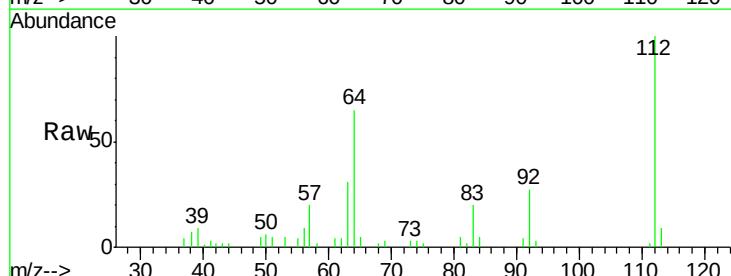
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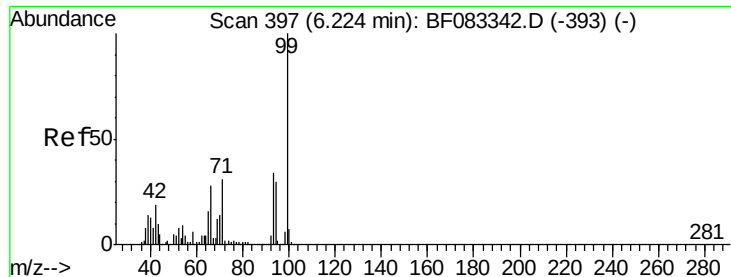


#5

2-Fluorophenol
Concen: 5.32 ng
RT: 5.14 min Scan# 302
Delta R.T. 0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
64	64.8	55.6	83.4	
63	30.5	28.2	42.2	





#7

Phenol-d6

Concen: 6.35 ng

RT: 6.22 min Scan# 397

Delta R.T. 0.00 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

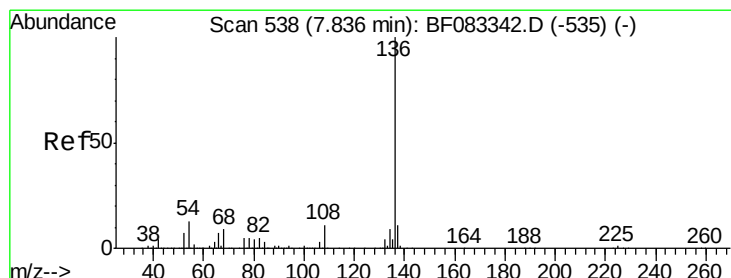
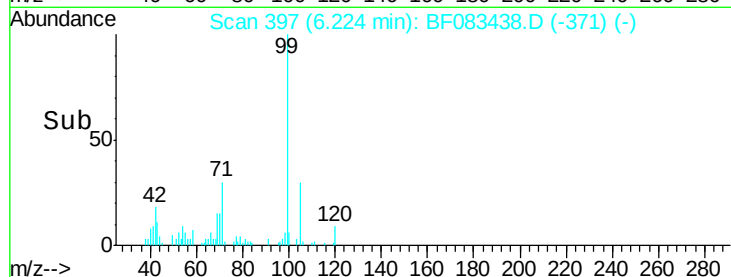
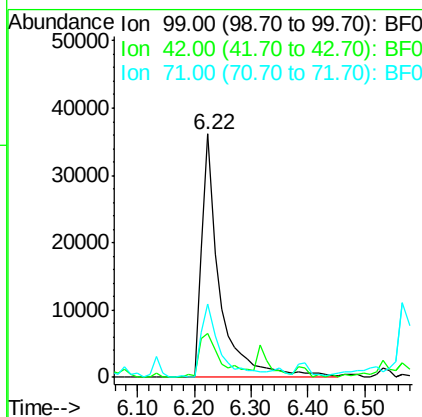
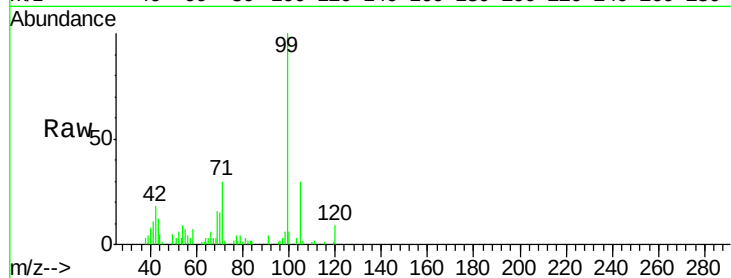
ClientSampleId :

DUP1-112415

Tot Ion:	99	Resp:	77200
Ion Ratio	Lower	Upper	
99	100		
42	18.3	14.9	22.3
71	30.4	24.7	37.1

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#21

Naphthalene-d8

Concen: 20.00 ng

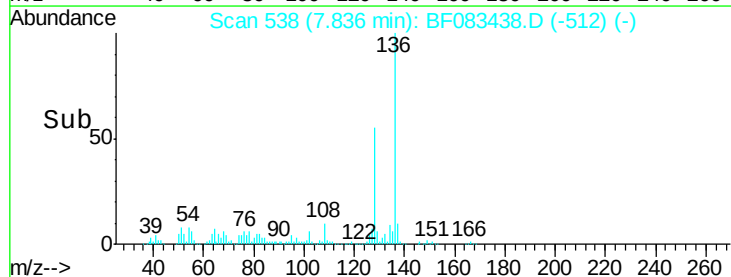
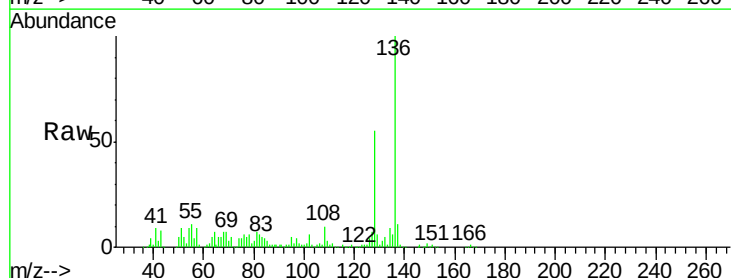
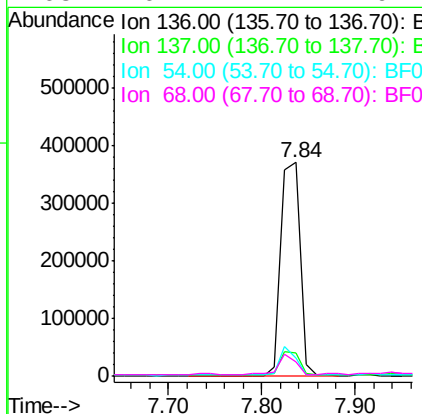
RT: 7.84 min Scan# 538

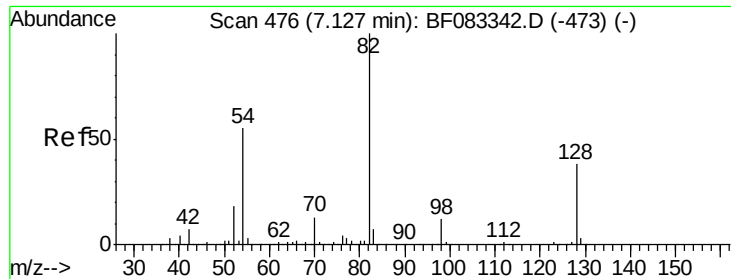
Delta R.T. 0.00 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	136	Resp:	529943
Ion Ratio	Lower	Upper	
136	100		
137	10.5	9.0	13.4
54	8.7	10.1	15.1#
68	6.7	7.1	10.7#





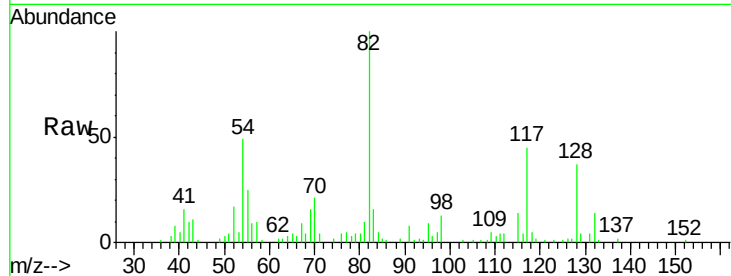
#23
Nitrobenzene-d5
Concen: 3.93 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

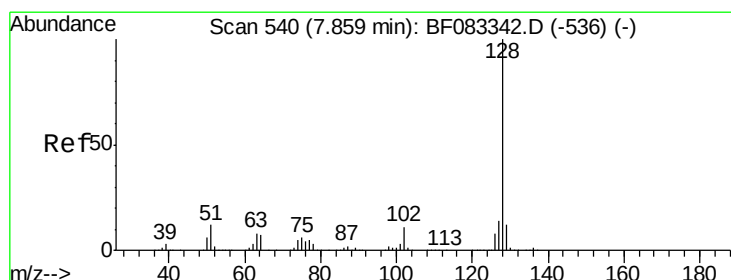
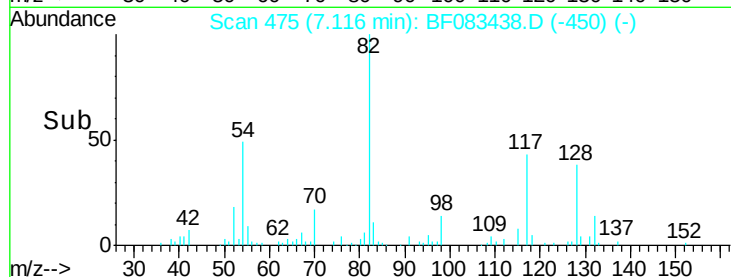
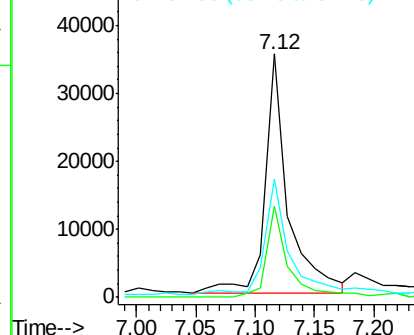
Tot Ion:	82	Resp:	47356
Ion Ratio	Lower	Upper	
82	100		
128	37.5	30.6	46.0
54	48.8	43.8	65.6

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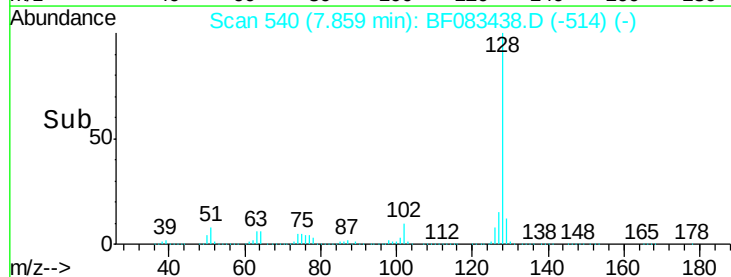
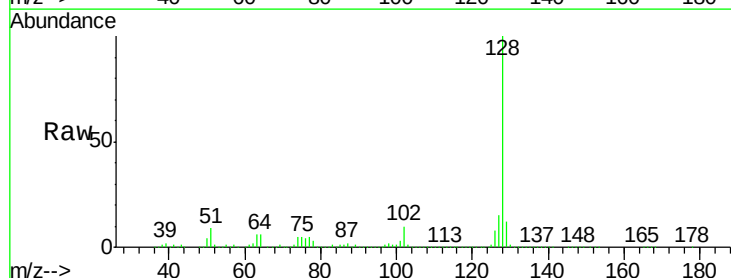
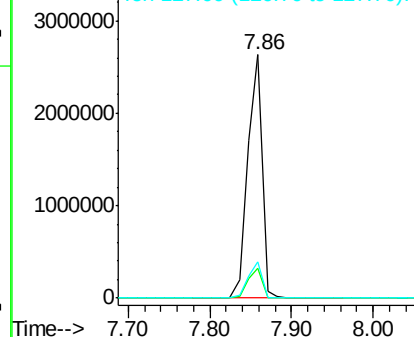
Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

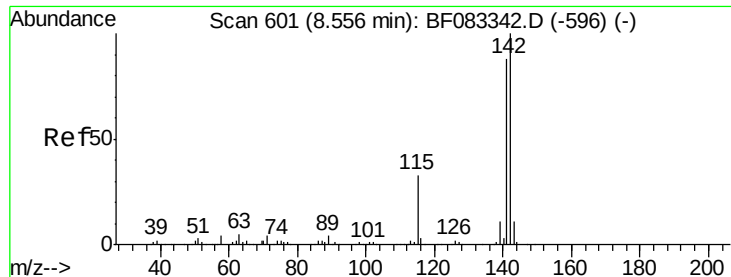


#31
Naphthalene
Concen: 111.14 ng
RT: 7.86 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion:	128	Resp:	3195686
Ion Ratio	Lower	Upper	
128	100		
129	12.3	9.7	14.5
127	14.8	11.0	16.4

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





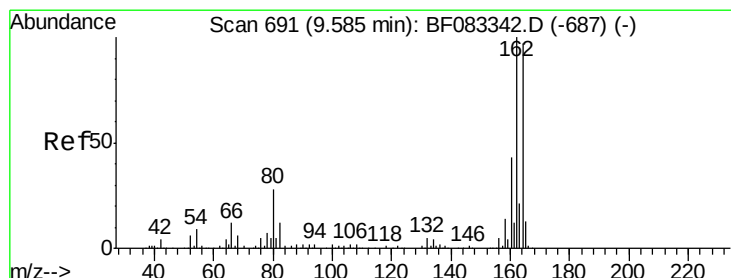
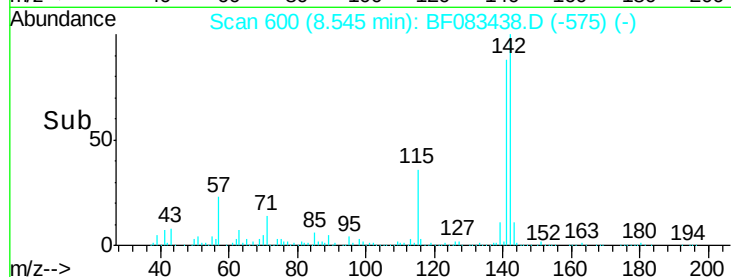
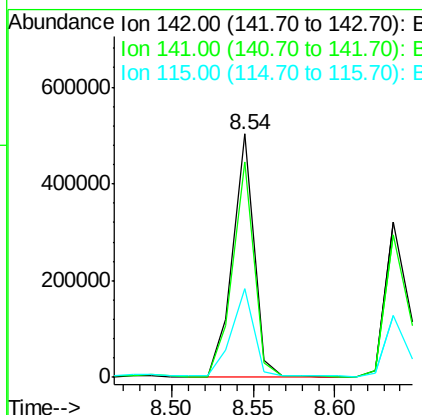
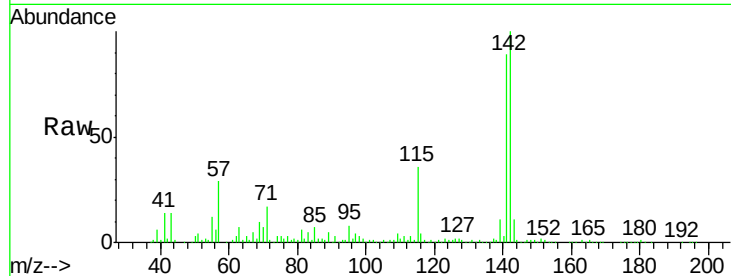
#37
2-Methylnaphthalene
Concen: 23.69 ng
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.6	105.8
115	36.4	26.2	39.2

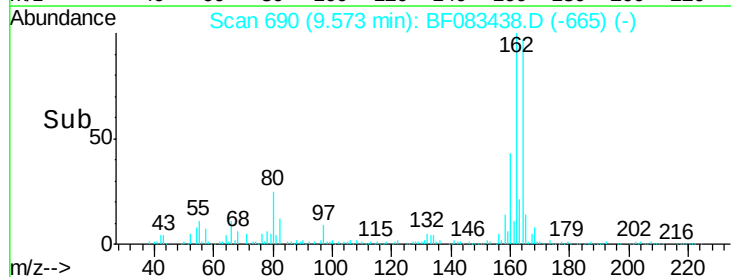
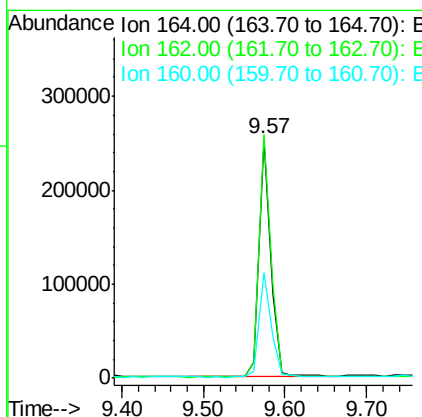
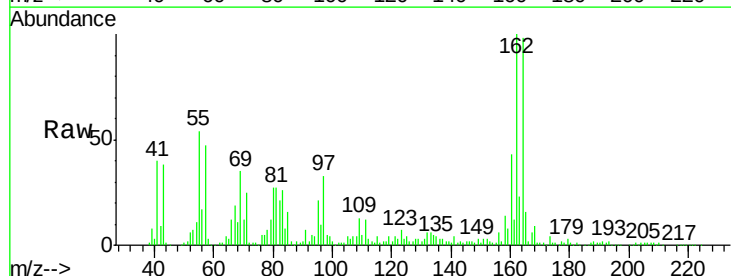
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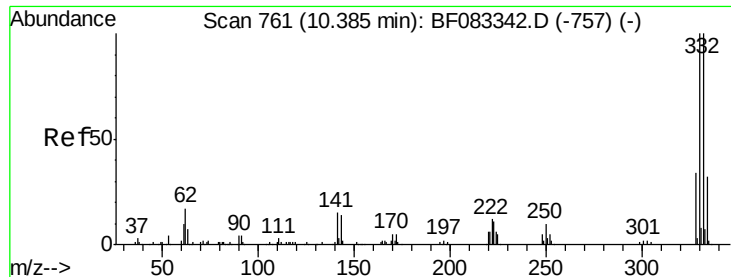
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.6	123.8
160	44.2	35.3	52.9





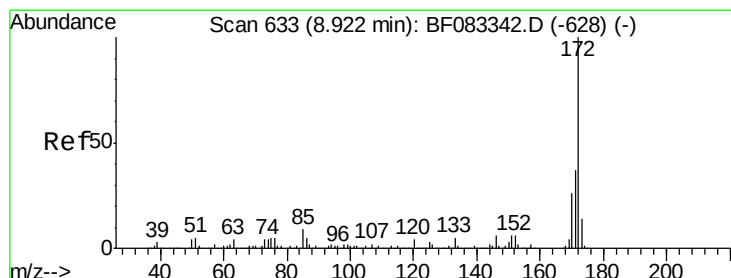
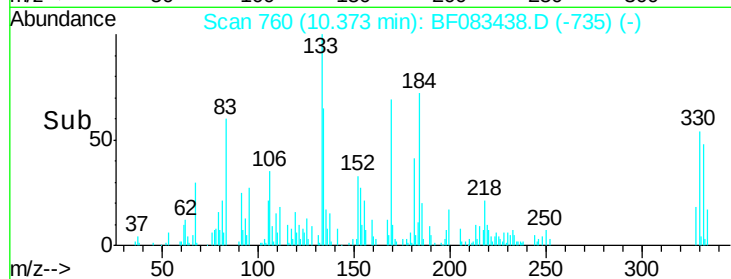
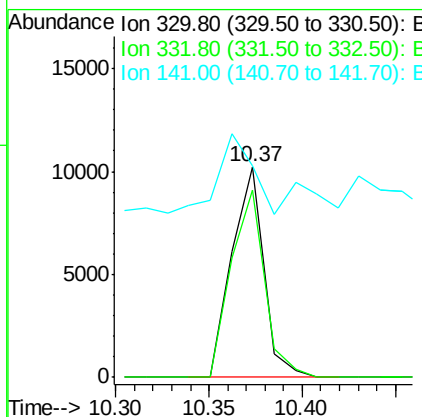
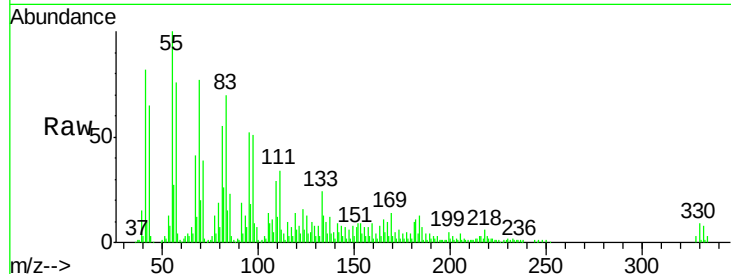
#41
 2,4,6-Tribromophenol
 Concen: 4.85 ng
 RT: 10.37 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: BF083438.D
 Acq: 3 Dec 2015 2:19

Instrument :
 BNA_F
 ClientSampleId :
 DUP1-112415

Tot Ion	Ratio	Resp	Lower	Upper
330	100	12203		
332	93.9	77.8	116.6	
141	40.7	29.4	44.0	

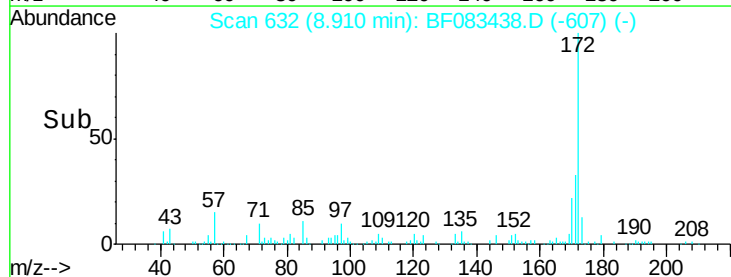
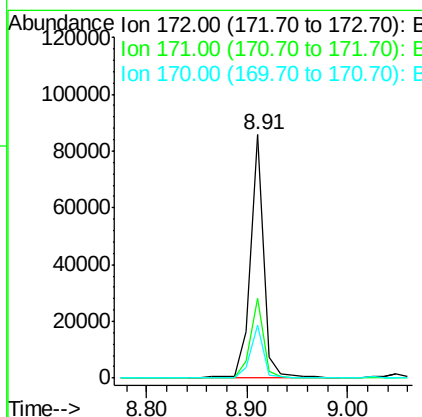
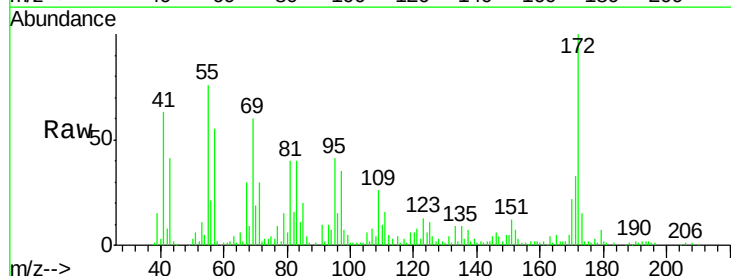
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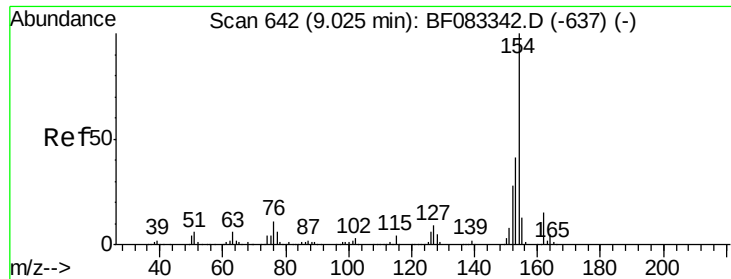
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#44
 2-Fluorobiphenyl
 Concen: 4.50 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083438.D
 Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	79132		
171	32.7	29.4	44.0	
170	21.9	20.4	30.6	





#45

1,1'-Biphenyl

Concen: 6.89 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

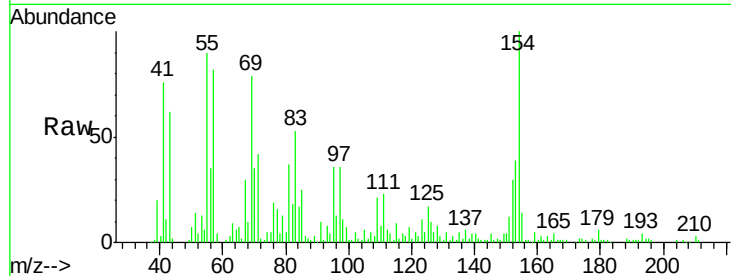
ClientSampleId :

DUP1-112415

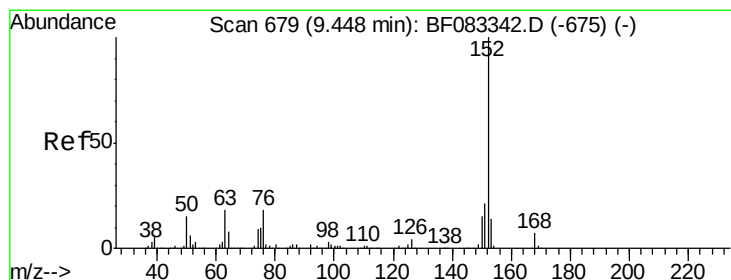
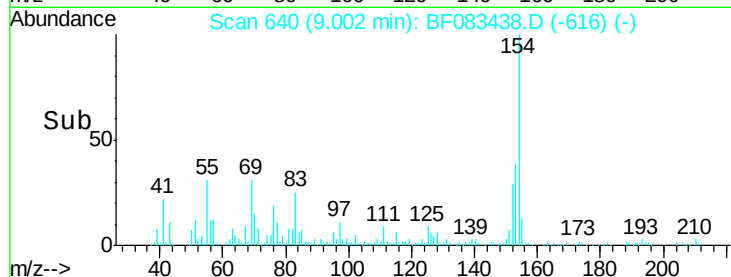
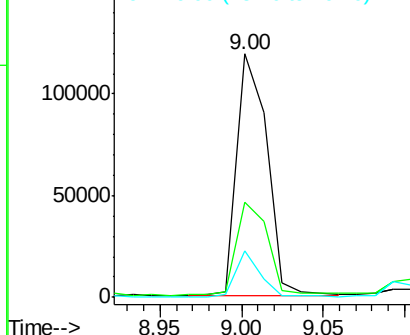
Tot Ion:	154	Resp:	151545
Ion Ratio	Lower	Upper	
154	100		
153	39.2	20.6	60.6
76	18.9	0.0	30.5

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 9.99 ng

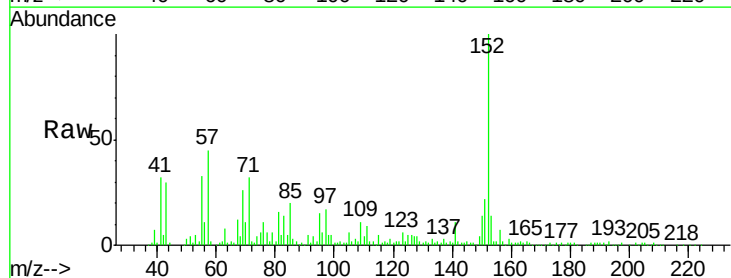
RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

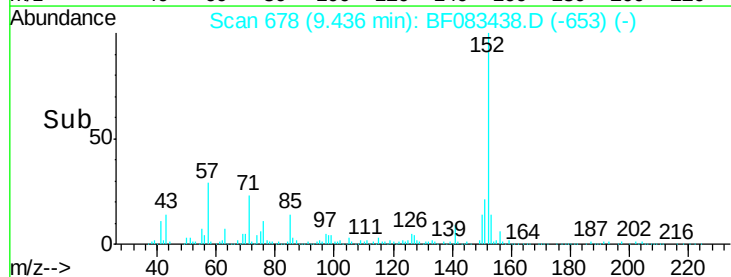
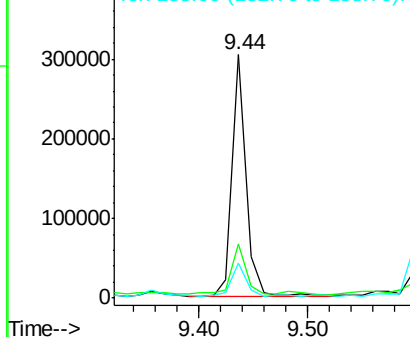
Lab File: BF083438.D

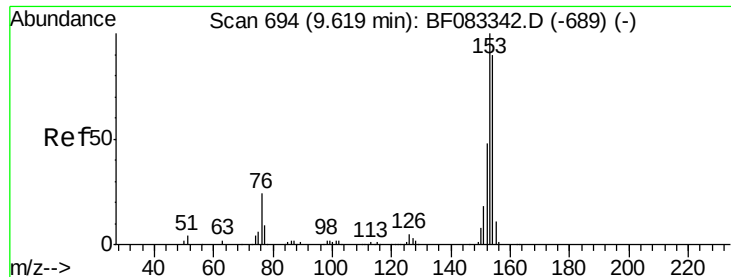
Acq: 3 Dec 2015 2:19

Tgt Ion:	152	Resp:	267063
Ion Ratio	Lower	Upper	
152	100		
151	22.4	16.7	25.1
153	14.5	11.2	16.8



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





#51

Acenaphthene

Concen: 34.06 ng

RT: 9.61 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

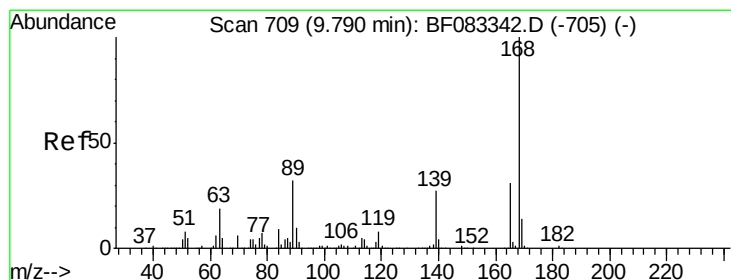
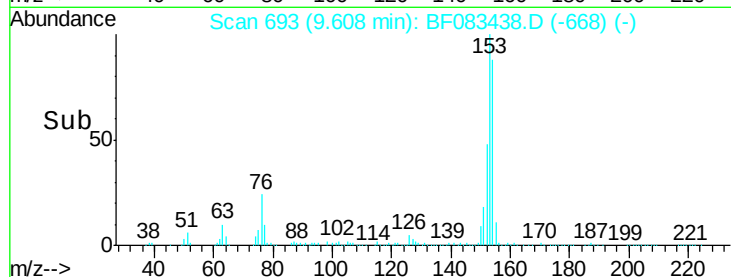
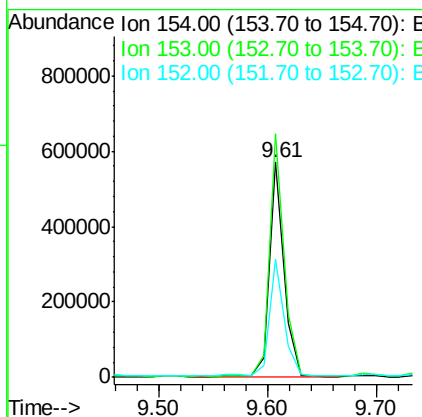
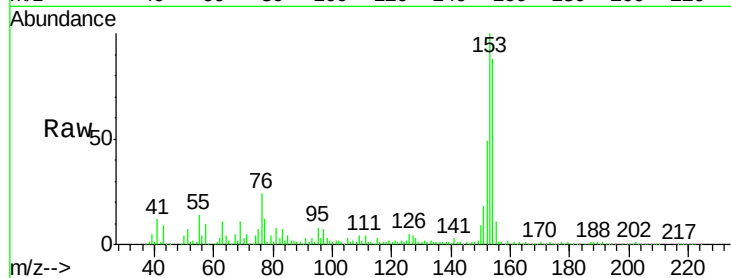
ClientSampleId :

DUP1-112415

Tot Ion:	154	Resp:	535562
Ion Ratio	Lower	Upper	
154	100		
153	113.1	89.3	133.9
152	55.0	42.5	63.7

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#54

Dibenzofuran

Concen: 2.02 ng

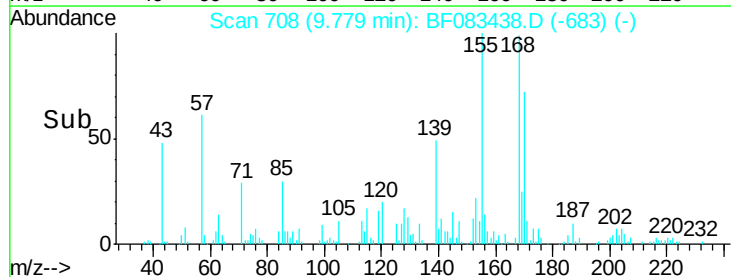
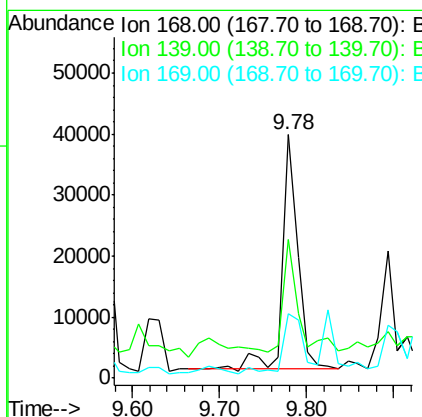
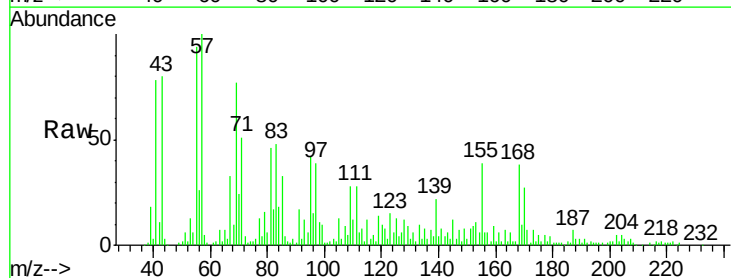
RT: 9.78 min Scan# 708

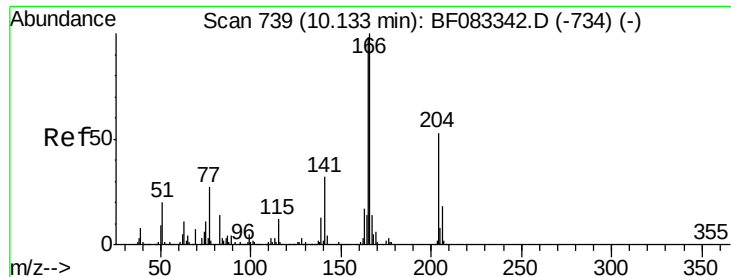
Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	168	Resp:	46438
Ion Ratio	Lower	Upper	
168	100		
139	57.1	32.7	49.1#
169	26.3	11.1	16.7#





#57

Fluorene

Concen: 14.90 ng/mL

RT: 10.12 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

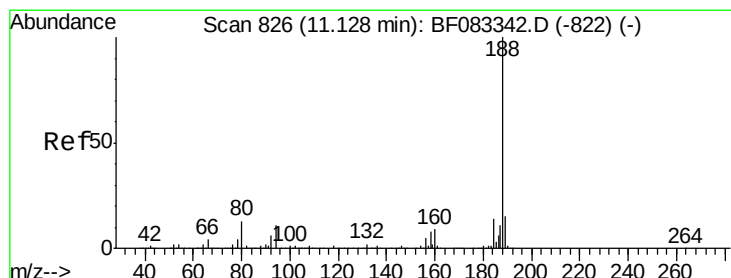
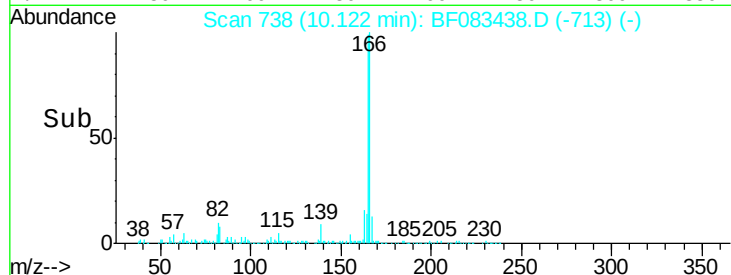
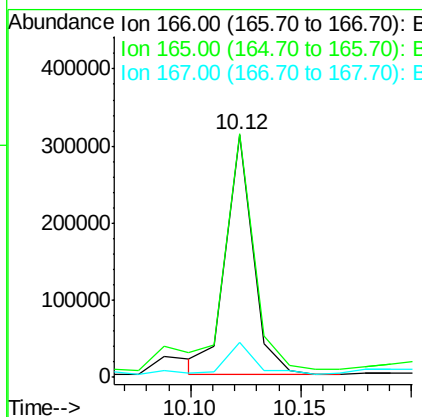
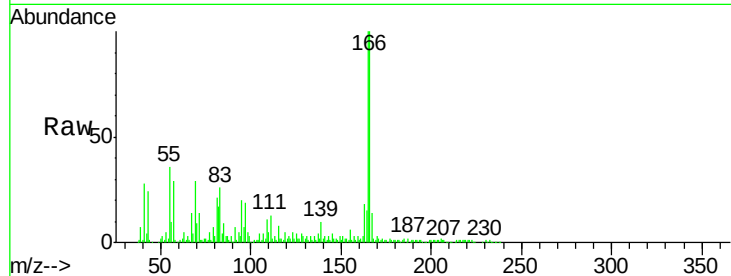
ClientSampleId :

DUP1-112415

Tot Ion:	166	Resp:	271132
Ion Ratio	Lower	Upper	
166	100		
165	100.4	78.3	117.5
167	14.5	11.1	16.7

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng/mL

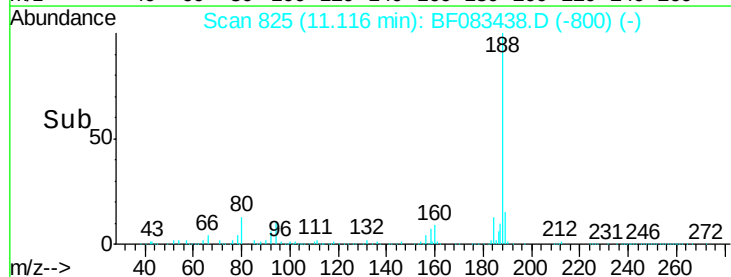
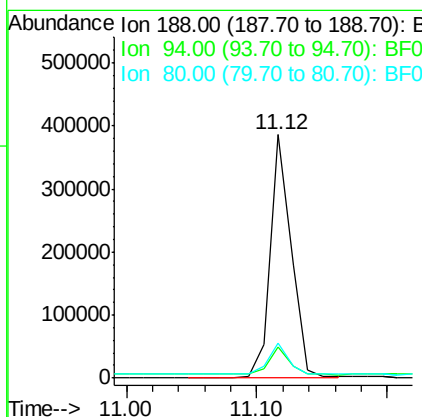
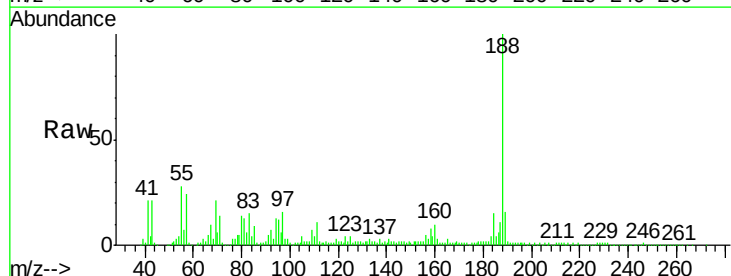
RT: 11.12 min Scan# 825

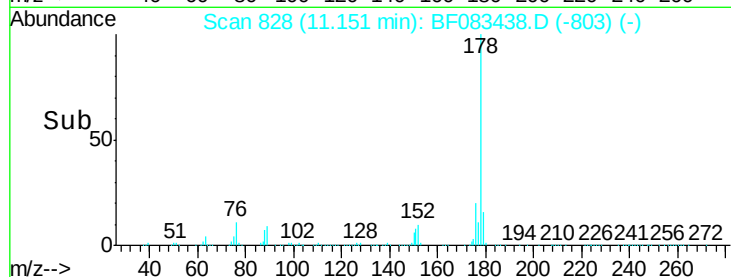
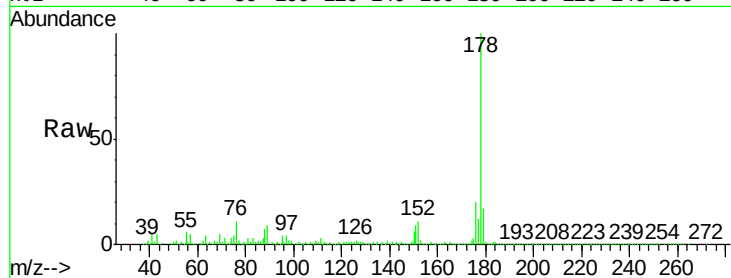
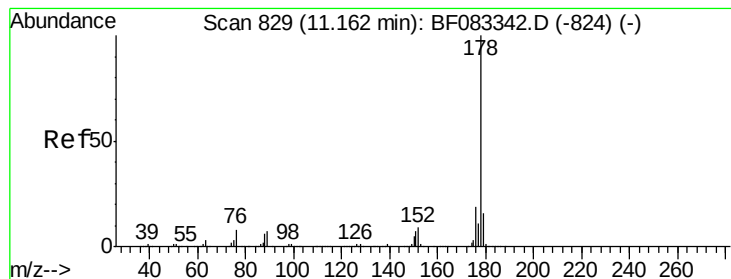
Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	188	Resp:	432909
Ion Ratio	Lower	Upper	
188	100		
94	12.7	8.7	13.1
80	14.4	10.3	15.5





#70

Phenanthrene

Concen: 60.53 ng

RT: 11.15 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tot Ion:178 Resp: 1550753

Ion Ratio Lower Upper

178 100

176 20.3 15.3 22.9

179 16.6 12.4 18.6

Instrument :

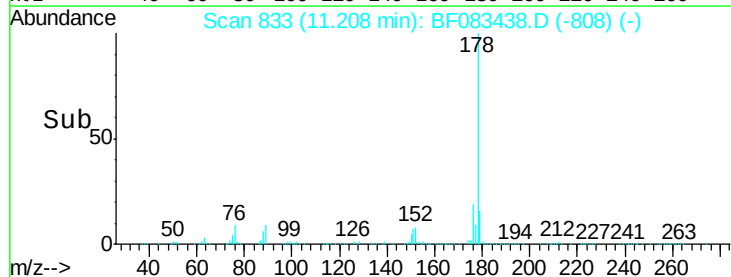
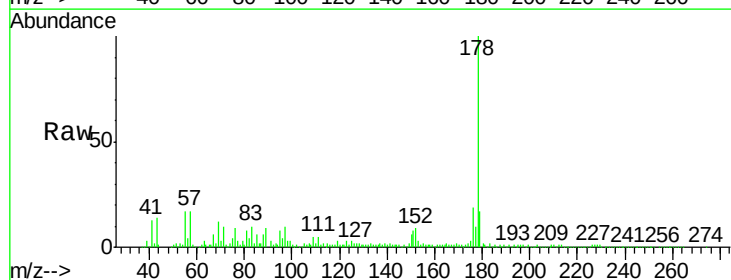
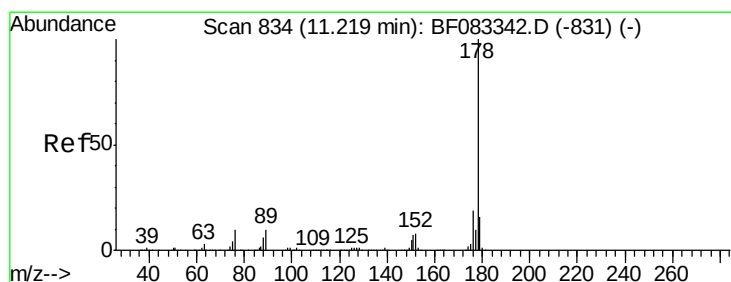
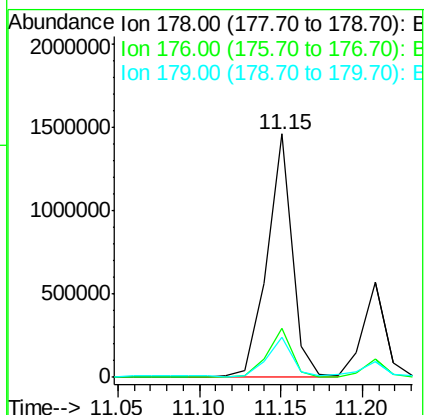
BNA_F

ClientSampleId :

DUP1-112415

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#71

Anthracene

Concen: 20.85 ng

RT: 11.21 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

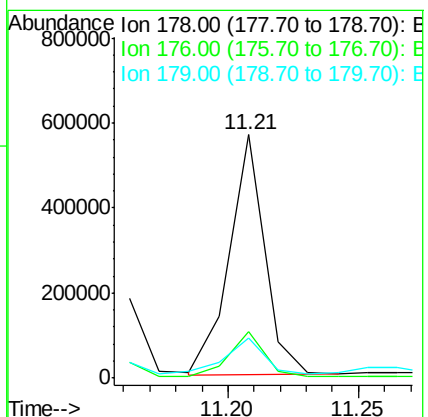
Tgt Ion:178 Resp: 537686

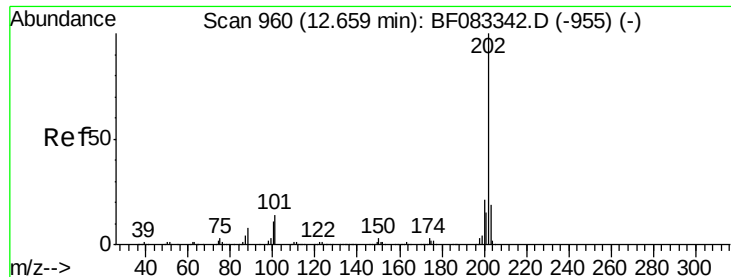
Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

179 16.6 12.8 19.2





#74

Fluoranthene

Concen: 41.82 ng

RT: 12.66 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

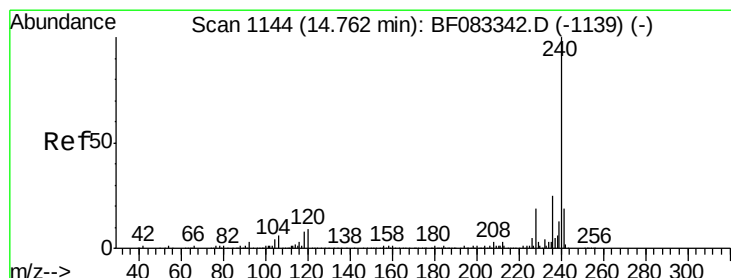
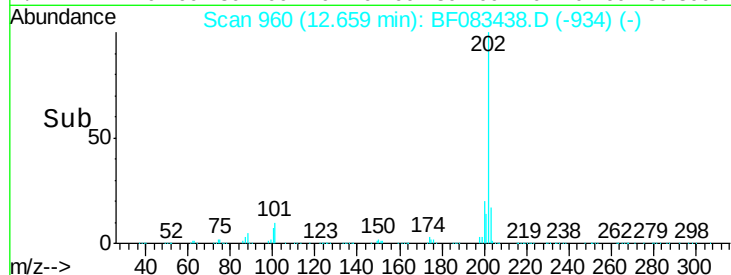
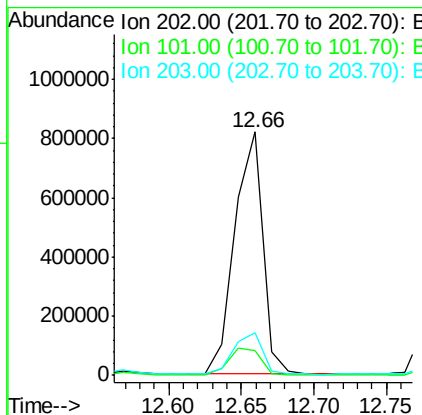
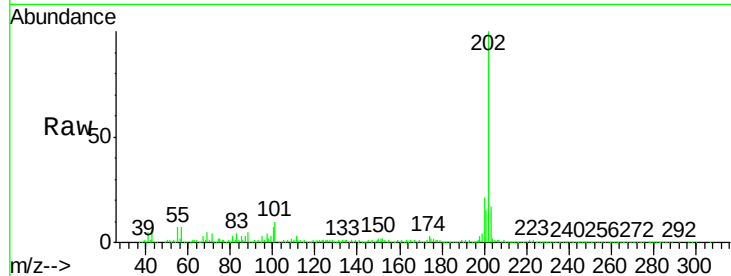
ClientSampleId :

DUP1-112415

Tot Ion:	202	Resp:	1110566
Ion Ratio	Lower	Upper	
202	100		
101	10.1	0.0	34.5
203	17.5	0.0	38.7

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

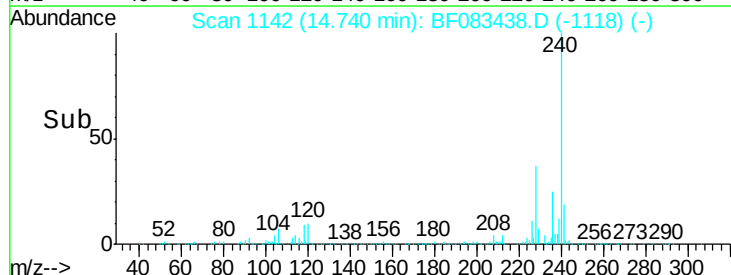
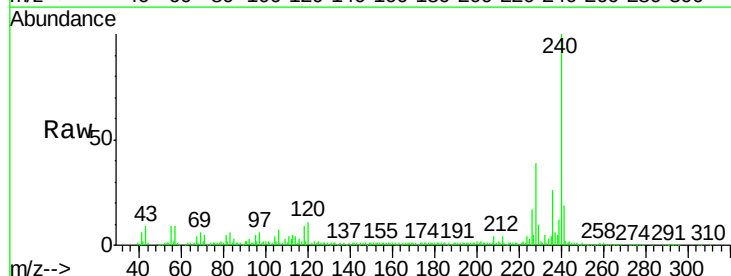
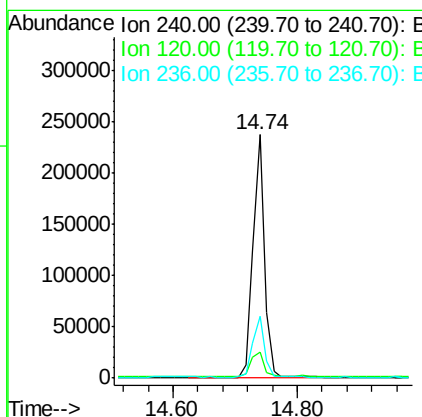
RT: 14.74 min Scan# 1142

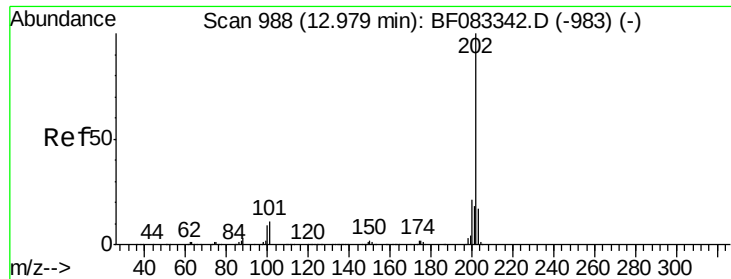
Delta R.T. -0.02 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	240	Resp:	309940
Ion Ratio	Lower	Upper	
240	100		
120	10.9	6.9	10.3#
236	25.5	19.8	29.6





#77

Pvrene

Concen: 73.72 ng

RT: 12.97 min Scan# 987

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

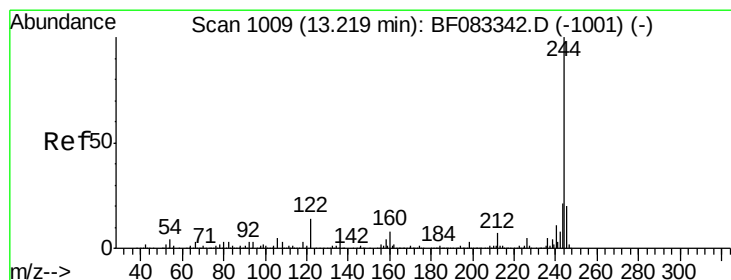
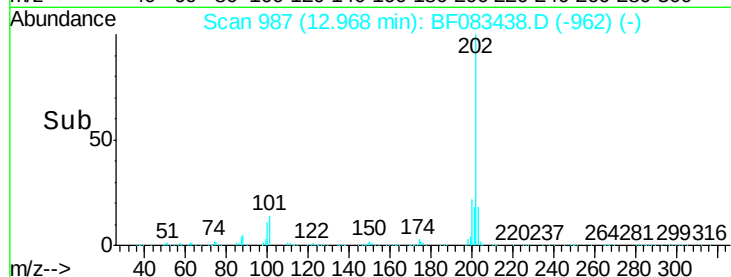
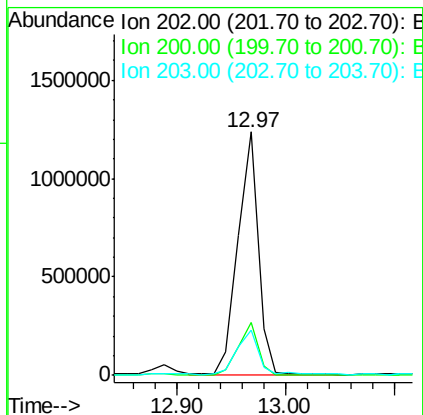
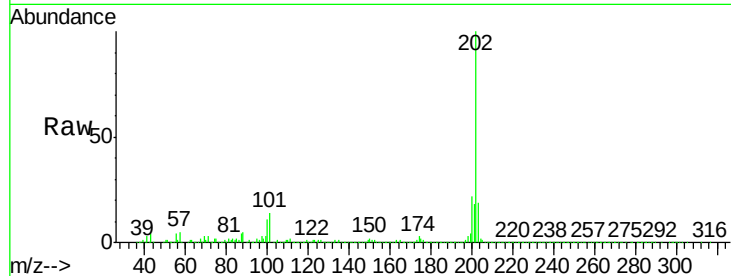
ClientSampleId :

DUP1-112415

Tot Ion:	202	Resp:	1595666
Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.9	25.3
203	18.5	13.9	20.9

Manual Integrations
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#78

Terphenyl-d14

Concen: 4.52 ng

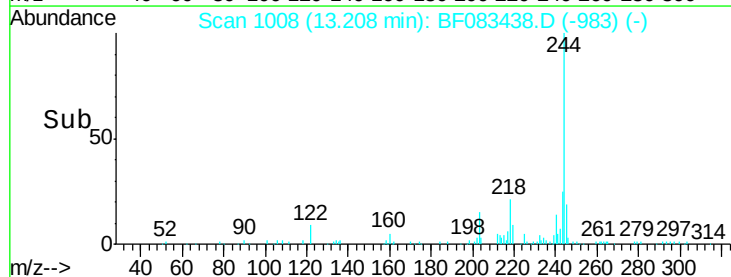
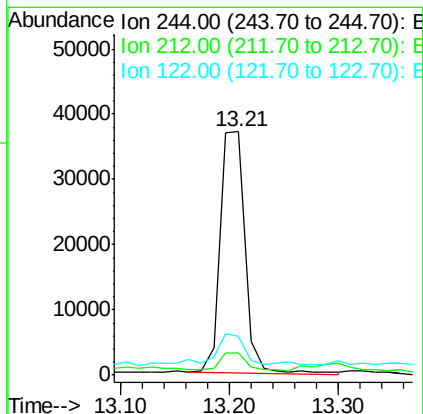
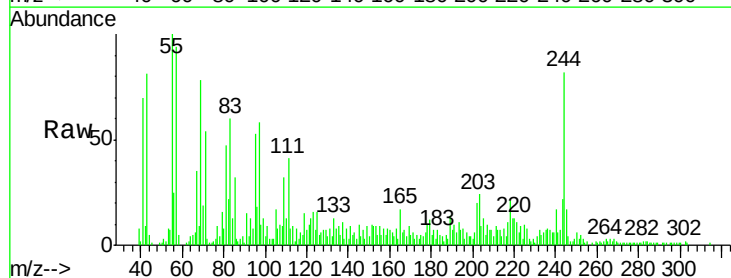
RT: 13.21 min Scan# 1008

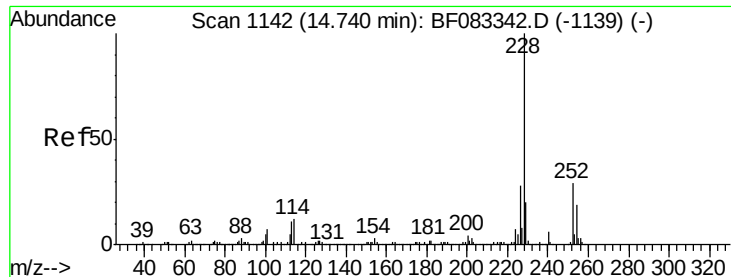
Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	244	Resp:	58706
Ion	Ratio	Lower	Upper
244	100		
212	8.9	5.8	8.8#
122	15.7	11.0	16.4





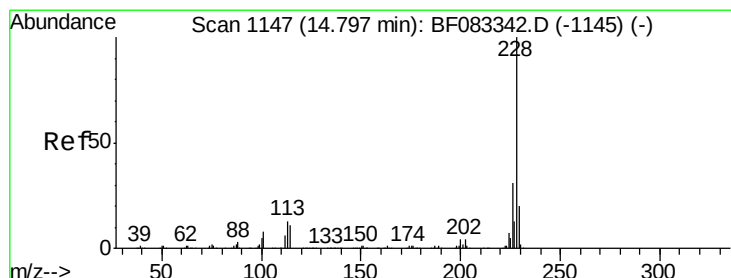
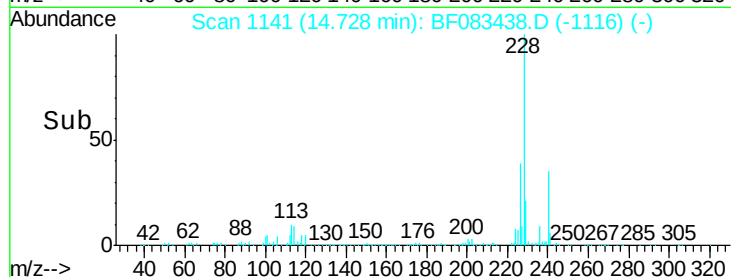
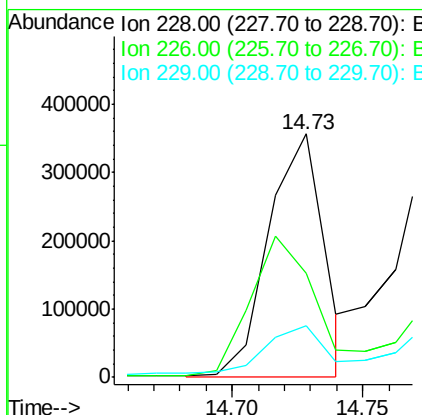
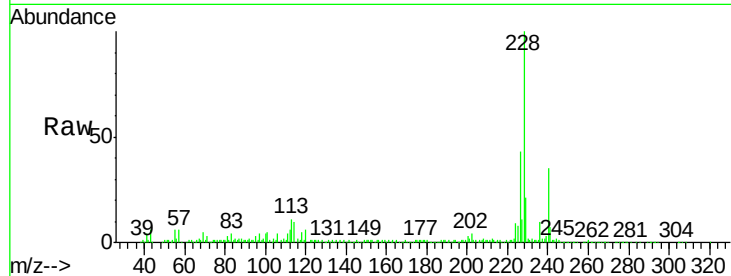
#80
Benzo(a)anthracene
Concen: 27.72 ng m
RT: 14.73 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

Tot Ion	Ratio	Lower	Upper
228	100		
226	42.6	22.2	33.4#
229	21.3	16.1	24.1

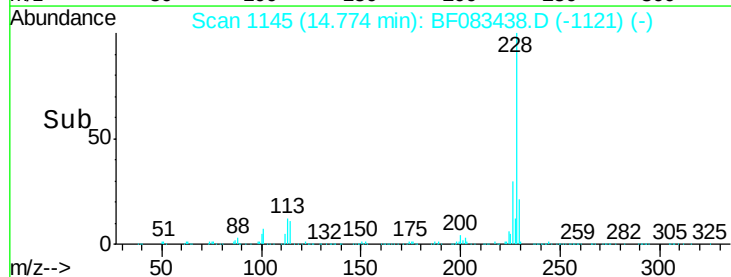
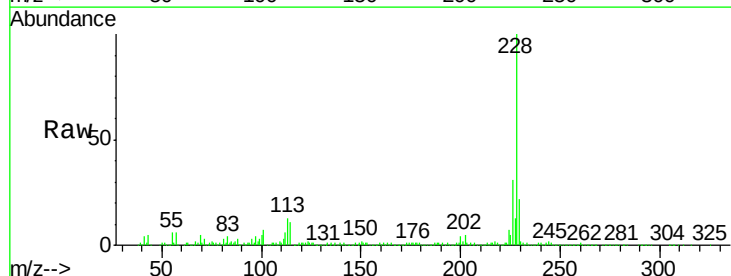
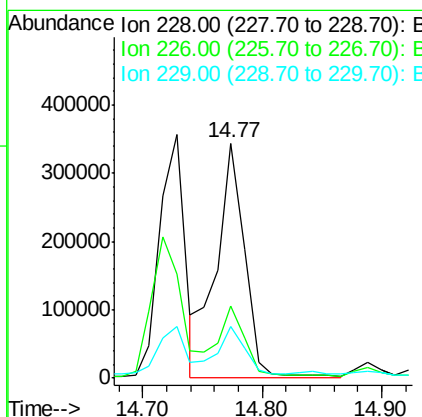
Manual Integrations
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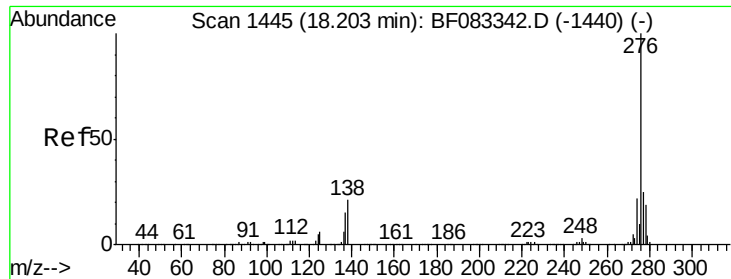
Mmdadoda
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#82
Chrysene
Concen: 31.58 ng m
RT: 14.77 min Scan# 1145
Delta R.T. -0.02 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	21.9	16.2	24.2





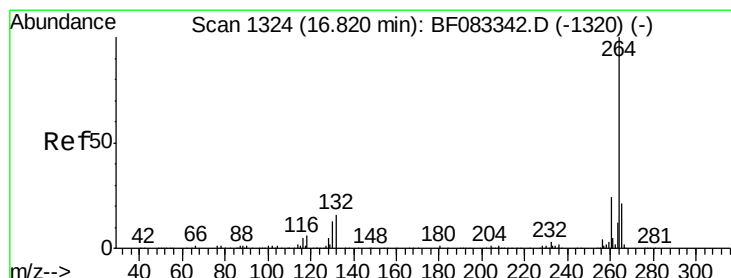
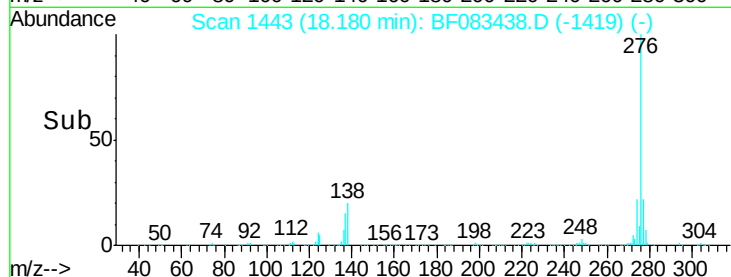
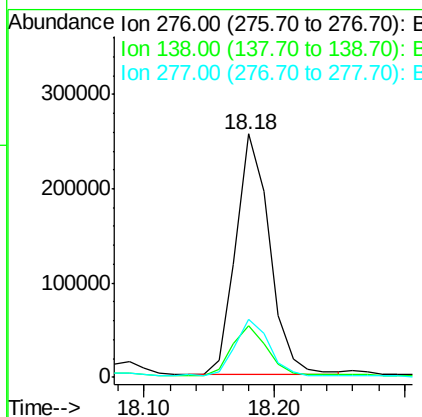
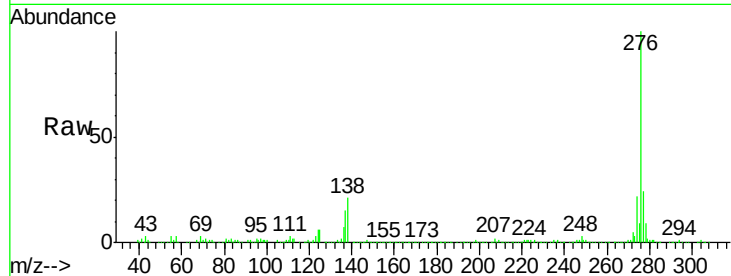
#85
Indeno(1,2,3-cd)pyrene
Concen: 34.52 ng
RT: 18.18 min Scan# 1443
Delta R.T. -0.02 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	21.2	31.8
277	23.2	20.0	30.0

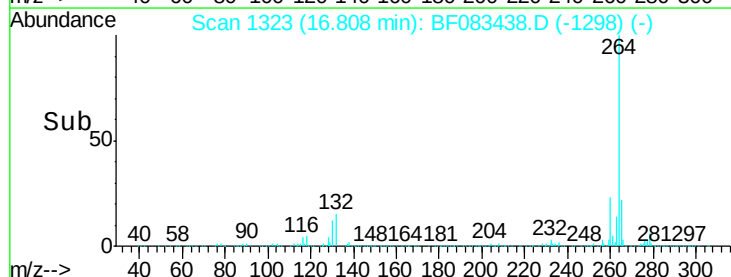
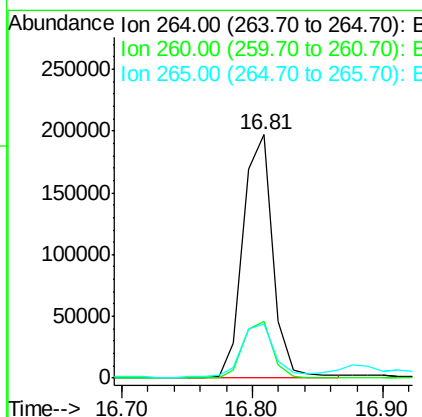
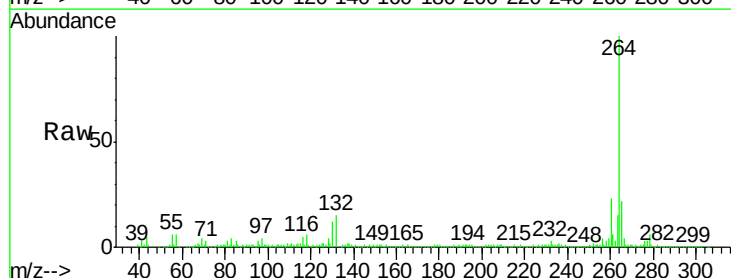
Manual Integrations
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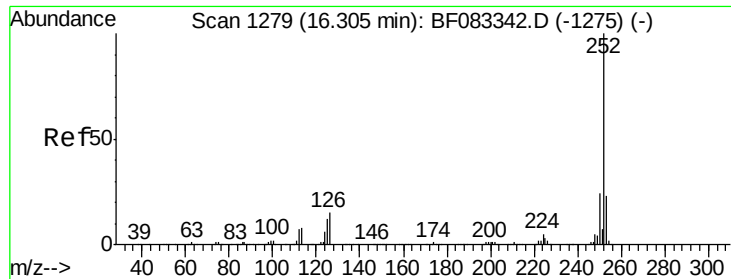
Mmdadoda
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.81 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.0	28.4
265	22.1	16.8	25.2





#87

Benzo(b)fluoranthene

Concen: 38.84 ng m

RT: 16.29 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Instrument :

BNA_F

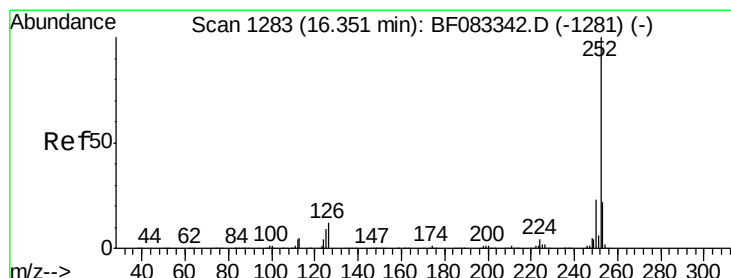
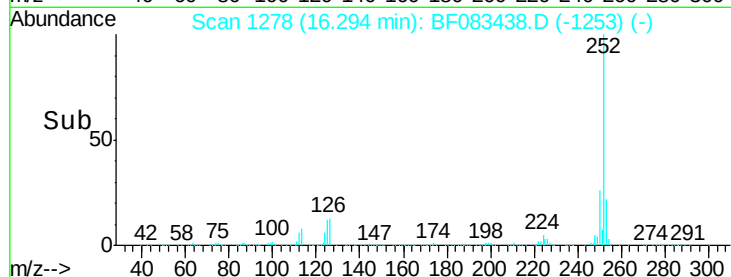
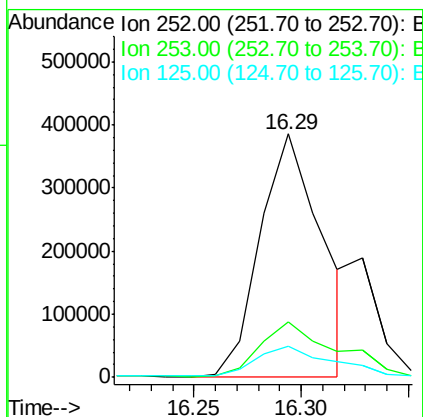
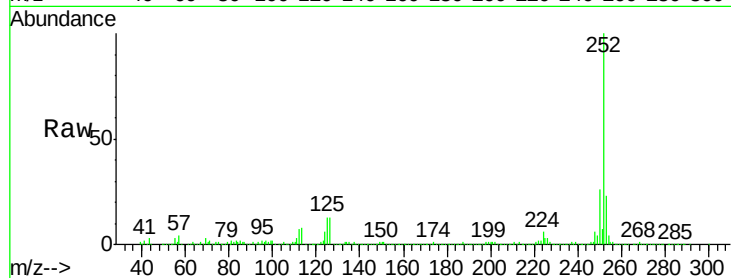
ClientSampleId :

DUP1-112415

Tot Ion:	252	Resp:	780684
Ion Ratio	Lower	Upper	
252	100		
253	22.6	18.4	27.6
125	12.6	9.6	14.4

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 9.65 ng m

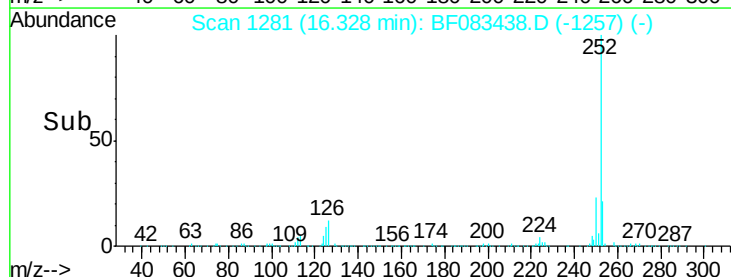
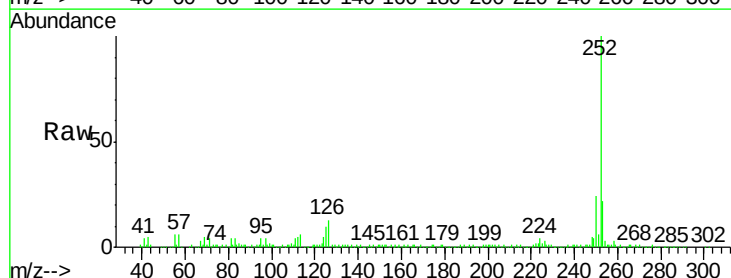
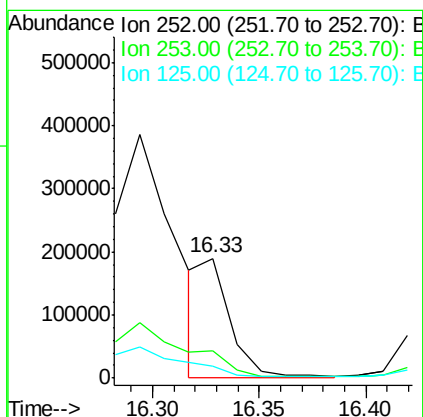
RT: 16.33 min Scan# 1281

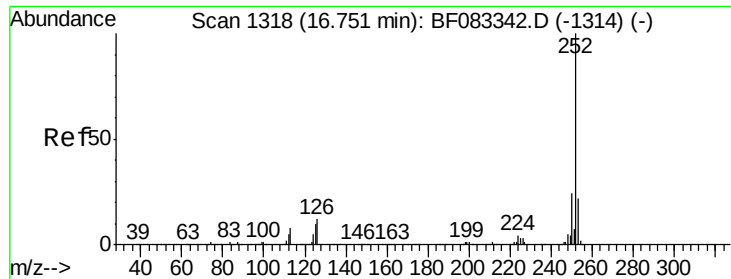
Delta R.T. -0.02 min

Lab File: BF083438.D

Acq: 3 Dec 2015 2:19

Tgt Ion:	252	Resp:	183084
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.4	26.0
125	9.9	7.5	11.3





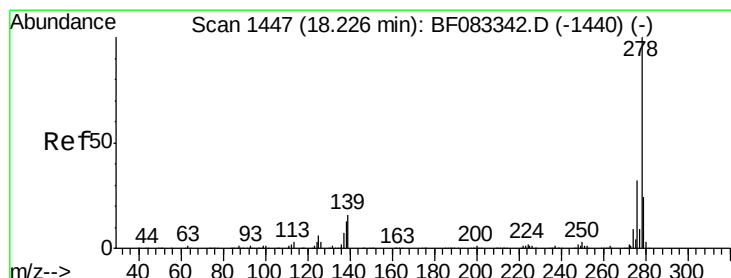
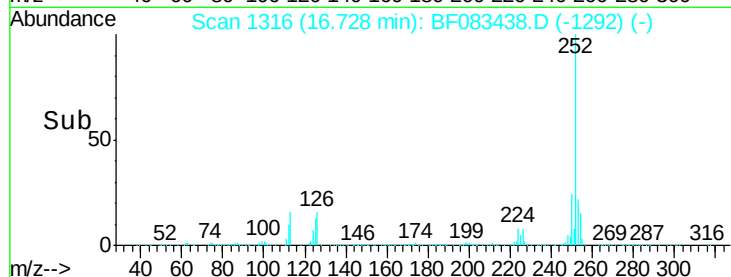
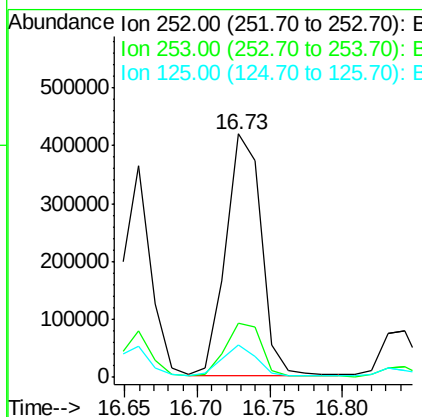
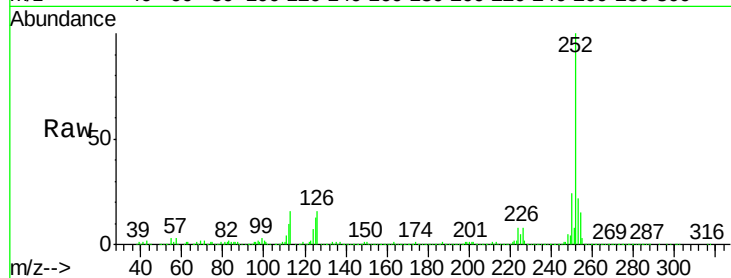
#89
Benzo(a)pyrene
Concen: 41.29 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Instrument :
BNA_F
ClientSampleId :
DUP1-112415

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.4	7.8	11.8

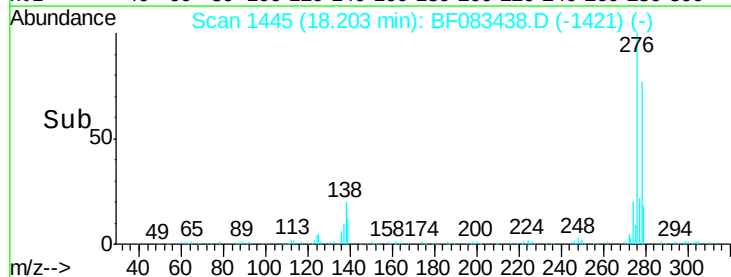
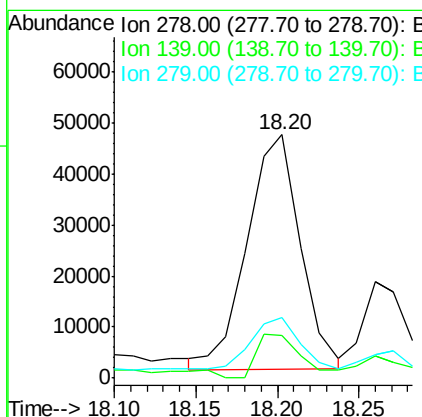
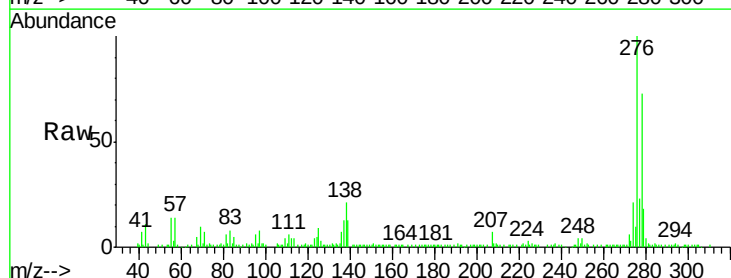
Manual Integrations
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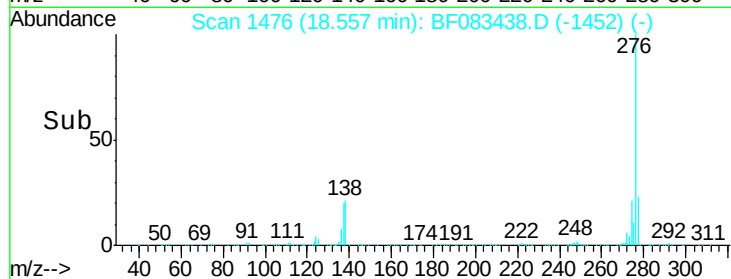
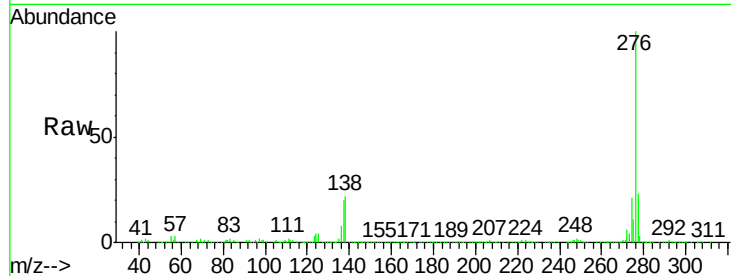
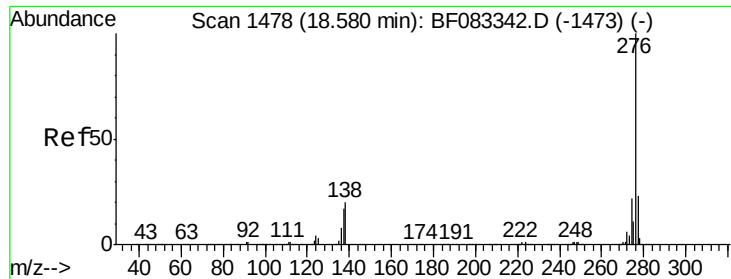
Mmdadoda
12/3/2015 7:09:56 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.95 ng
RT: 18.20 min Scan# 1445
Delta R.T. -0.02 min
Lab File: BF083438.D
Acq: 3 Dec 2015 2:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.1	19.7
279	25.0	19.2	28.8





#91
 Benzo(a,h,i)perylene
 Concen: 37.48 ng
 RT: 18.56 min Scan# 1476
 Delta R.T. -0.02 min
 Lab File: BF083438.D
 Acq: 3 Dec 2015 2:19

Instrument :
 BNA_F
 ClientSampleId :
 DUP1-112415

Tot Ion:	276	Resp:	553410
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.6	28.0
138	21.6	16.1	24.1

Manual Integrations
 APPROVED

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