

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
 Data File : BF083660.D
 Acq On : 10 Dec 2015 2:16
 Operator : UM/IZ
 Sample : G4584-01DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Manual Integrations
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 12/10/2015 5:50:22 PM

Quant Time: Dec 10 06:03:34 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	169335	20.00	ng	-0.02
21) Naphthalene-d8	7.58	136	655538	20.00	ng	-0.02
38) Acenaphthene-d10	10.36	164	300033	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	485390	20.00	ng	-0.02
75) Chrysene-d12	16.98	240	387987	20.00	ng	-0.01
86) Perylene-d12	18.63	264	340236	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.97	112	239272	21.43	ng	0.00
7) Phenol-d6	5.26	99	353611	23.70	ng	-0.01
23) Nitrobenzene-d5	6.52	82	227651	16.20	ng	-0.01
41) 2,4,6-Tribromophenol	11.66	330	41738	15.61	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	383560	17.99	ng	-0.02
78) Terphenyl-d14	15.39	244	272366	16.52	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.61	128	1400111	40.33	ng	98
37) 2-Methylnaphthalene	8.72	142	387067	17.75	ng	98
45) 1,1'-Biphenyl	9.47	154	188211	7.22	ng	98
48) Acenaphthylene	10.13	152	1037341	31.95	ng	99
51) Acenaphthene	10.42	154	171357	9.22	ng	99
54) Dibenzofuran	10.72	168	66968	2.60	ng	99
57) Fluorene	11.25	166	506563	22.52	ng	98
70) Phenanthrene	12.81	178	3054687	109.53	ng	97
71) Anthracene	12.89	178	828079	28.66	ng	99
74) Fluoranthene	14.74	202	2051688	71.91	ng	98
77) Pyrene	15.09	202	2798018	100.17	ng	97
80) Benzo(a)anthracene	16.97	228	1042050m	45.89	ng	
82) Chrysene	17.01	228	901897	39.62	ng	99
85) Indeno(1,2,3-cd)pyrene	19.86	276	490427	31.92	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	875638m	45.19	ng	
88) Benzo(k)fluoranthene	18.26	252	373484m	17.49	ng	
89) Benzo(a)pyrene	18.57	252	1029261	54.44	ng	97
90) Dibenzo(a,h)anthracene	19.87	278	104750m	7.25	ng	
91) Benzo(a,h,i)perylene	20.21	276	589648	41.84	ng	96

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

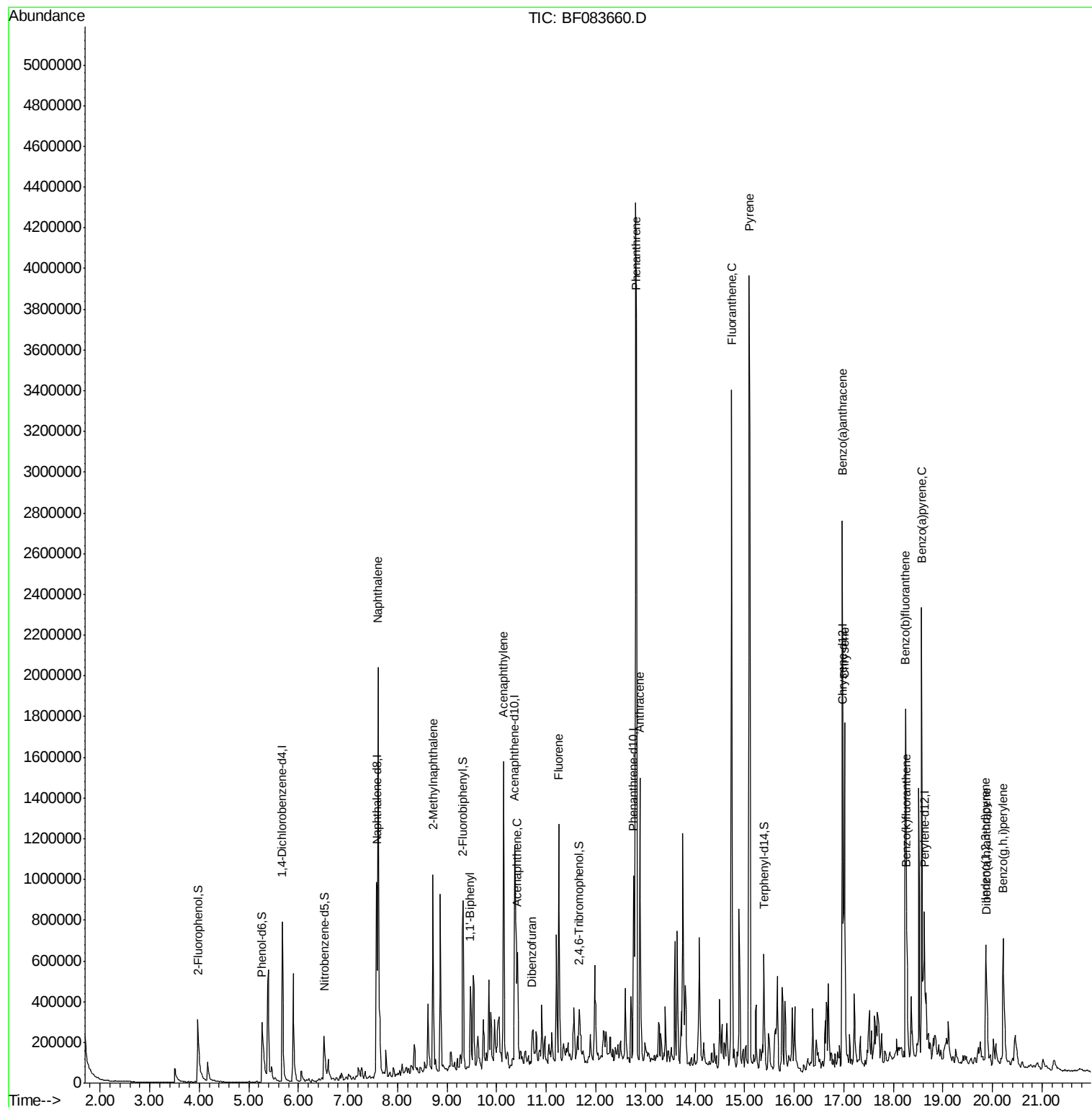
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120915\
Data File : BF083660.D
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ALS Vial : 24 Sample Multiplier: 1

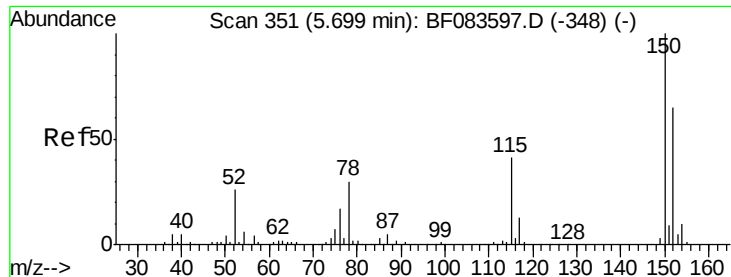
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

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Quant Time: Dec 10 06:03:34 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 09 00:23:35 2015
Response via : Initial Calibration





#1

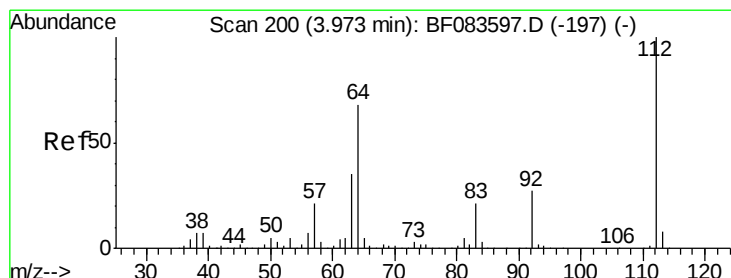
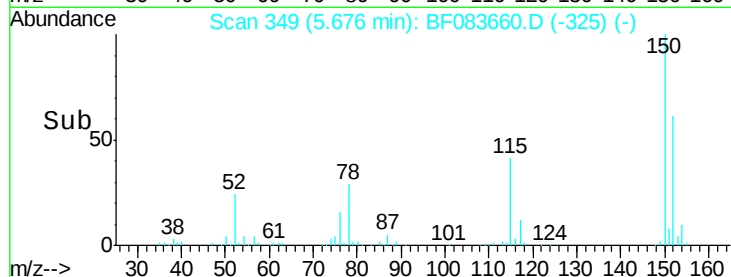
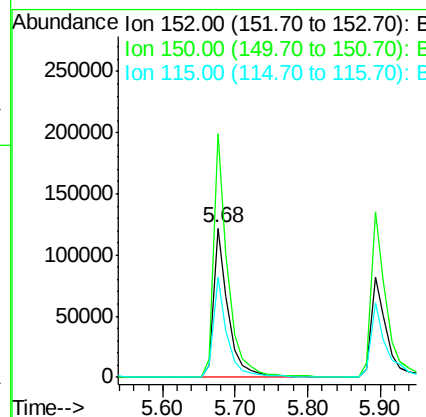
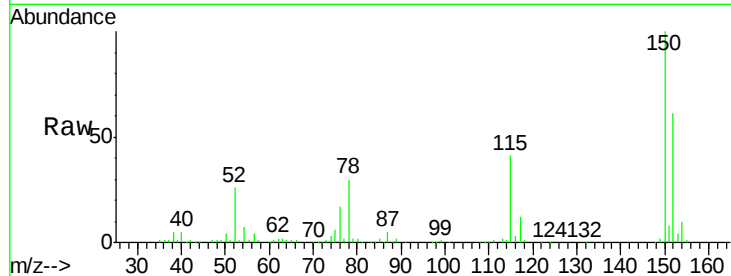
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.68 min Scan# 349
Delta R.T. -0.02 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.9	126.5	189.7
115	67.0	52.3	78.5

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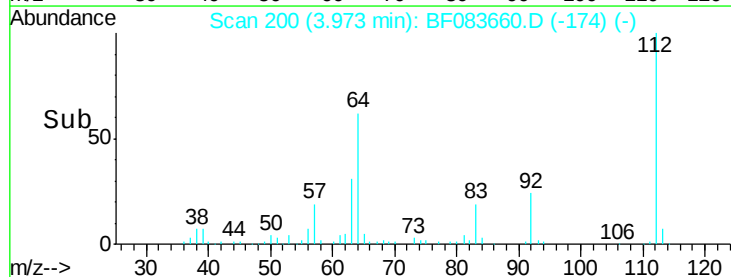
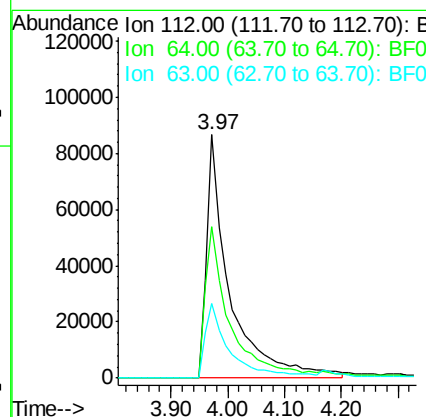
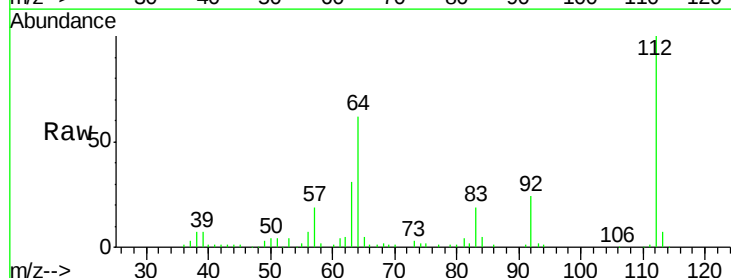
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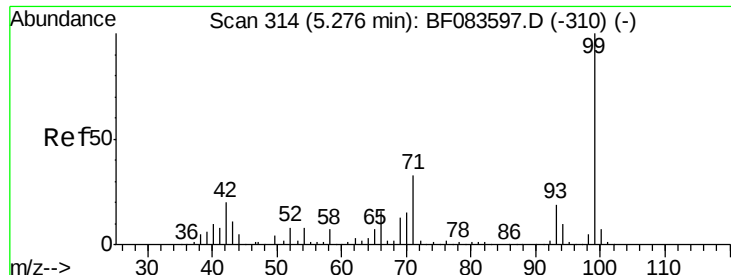


#5

2-Fluorophenol
Concen: 21.43 ng
RT: 3.97 min Scan# 200
Delta R.T. 0.00 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.2	50.5	75.7
63	30.5	25.8	38.6





#7

Phenol-d6

Concen: 23.70 ng

RT: 5.26 min Scan# 313

Delta R.T. -0.01 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

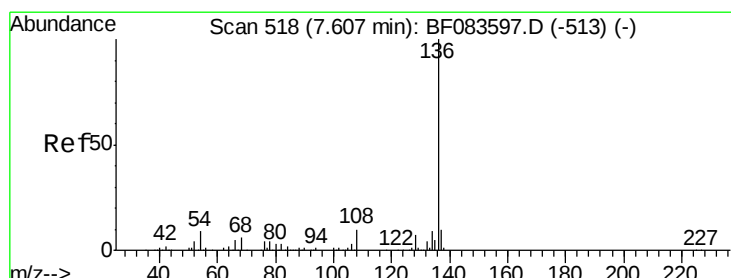
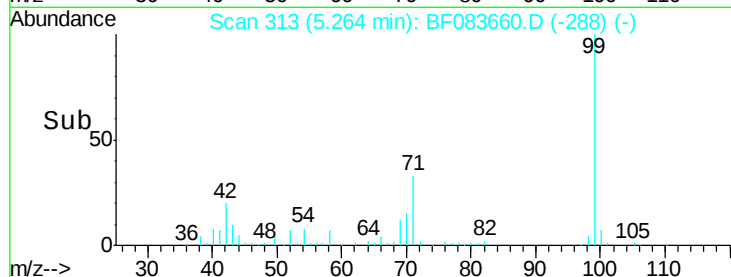
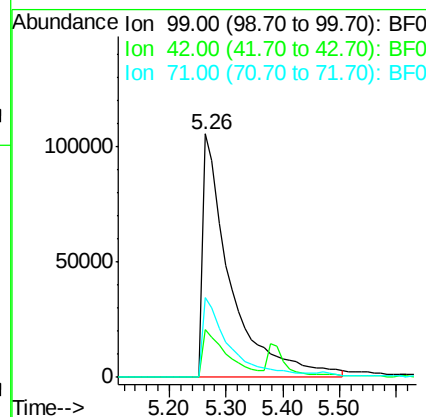
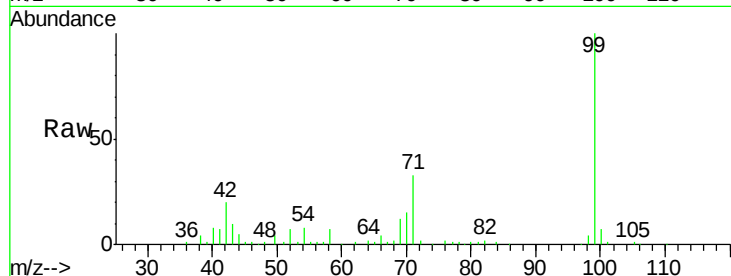
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	99	Resp:	353611
Ion Ratio	Lower	Upper	
99	100		
42	19.6	17.3	25.9
71	32.5	26.6	40.0

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#21

Naphthalene-d8

Concen: 20.00 ng

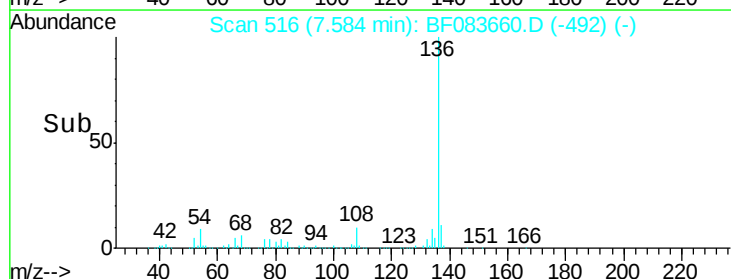
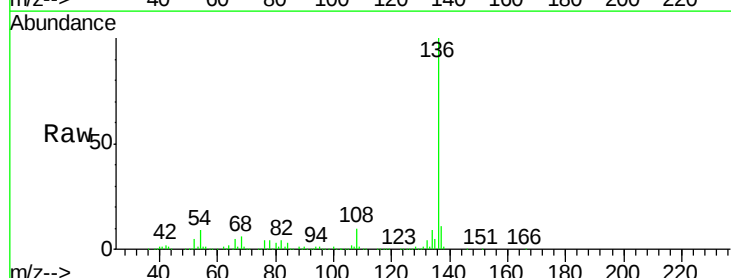
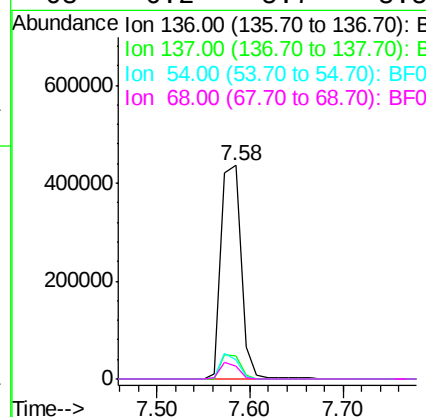
RT: 7.58 min Scan# 516

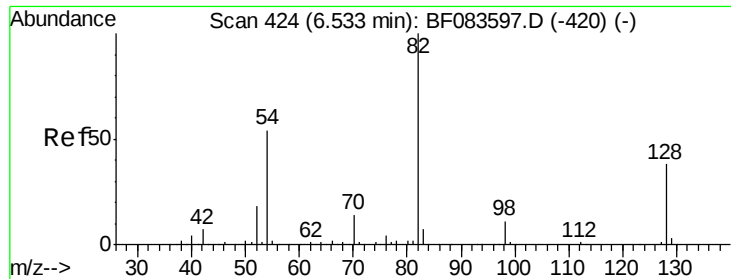
Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Tgt Ion:	136	Resp:	655538
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.7	13.1
54	8.9	7.8	11.6
68	6.2	5.7	8.5





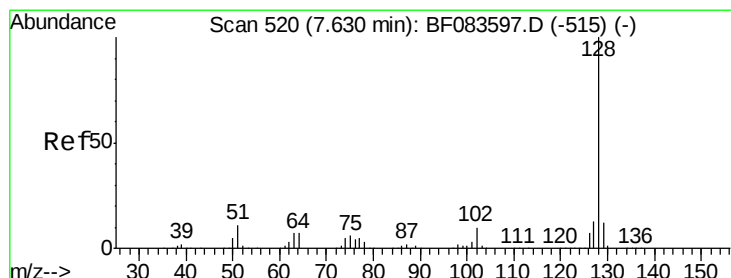
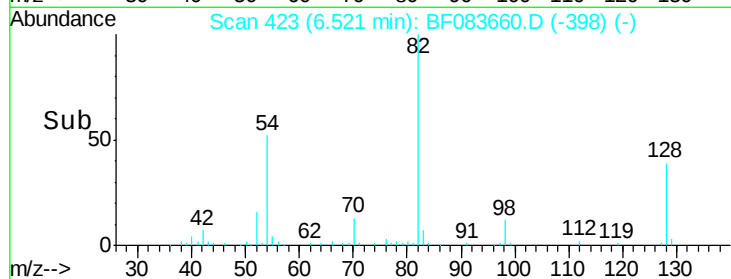
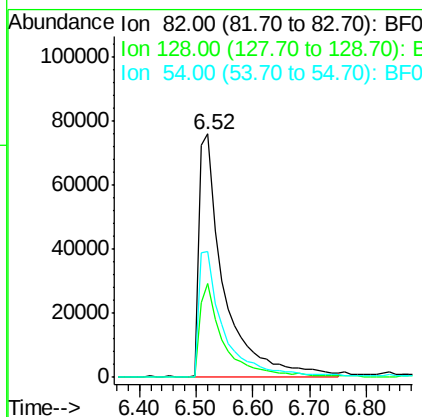
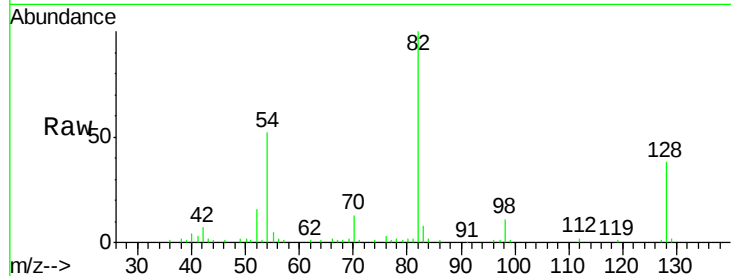
#23
 Nitrobenzene-d5
 Concen: 16.20 ng
 RT: 6.52 min Scan# 423
 Delta R.T. -0.01 min
 Lab File: BF083660.D
 Acq: 10 Dec 2015 2:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.7	46.1
54	51.5	42.5	63.7

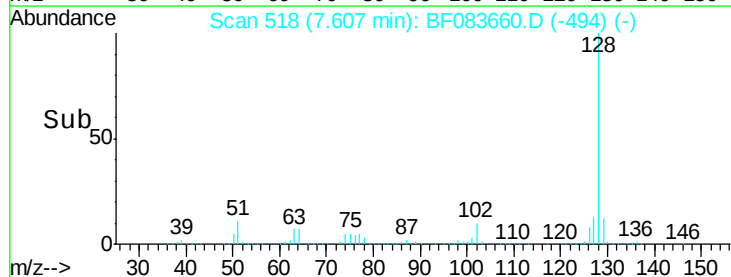
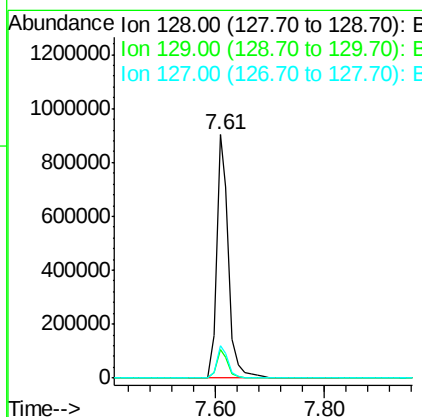
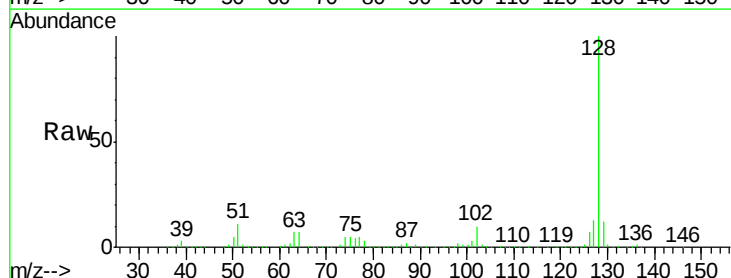
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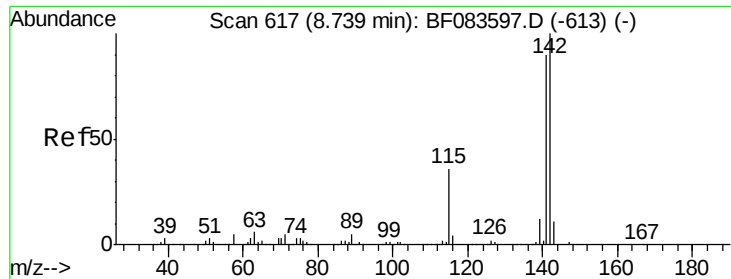
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#31
 Naphthalene
 Concen: 40.33 ng
 RT: 7.61 min Scan# 518
 Delta R.T. -0.02 min
 Lab File: BF083660.D
 Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.6	13.0
127	13.1	10.6	16.0





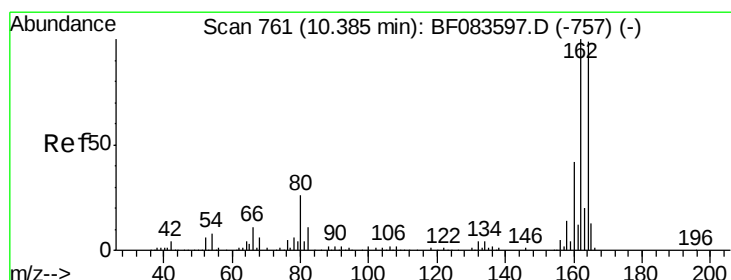
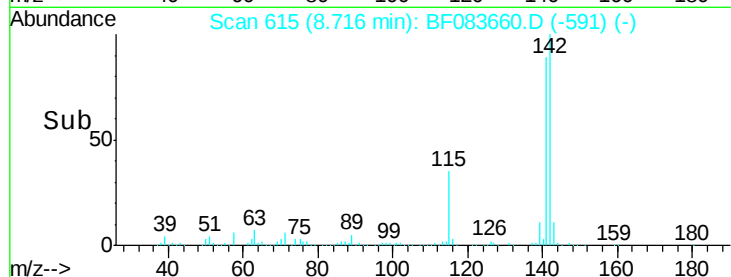
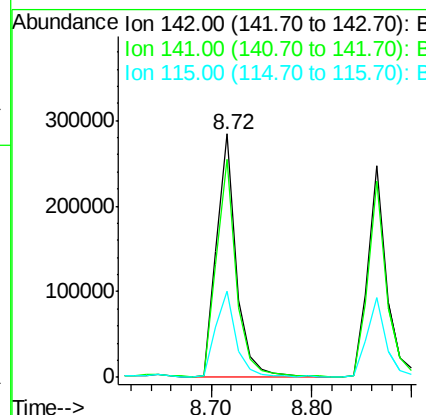
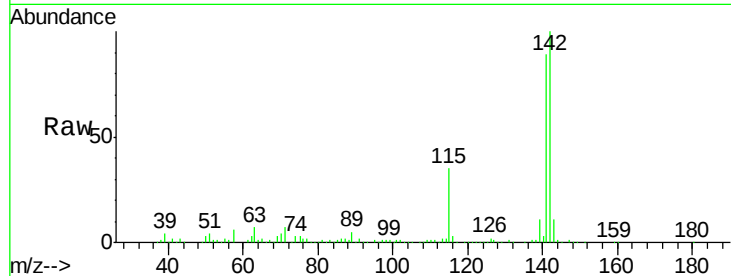
#37
2-Methylnaphthalene
Concen: 17.75 ng
RT: 8.72 min Scan# 615
Delta R.T. -0.02 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.3	105.5
115	35.1	29.2	43.8

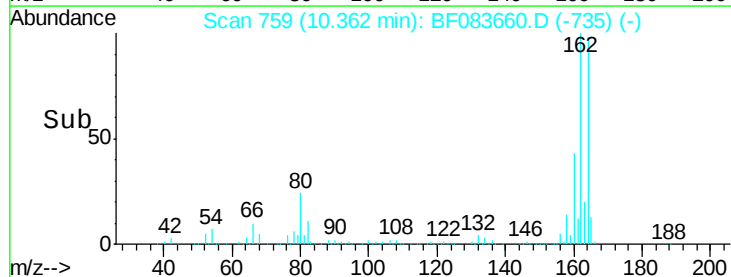
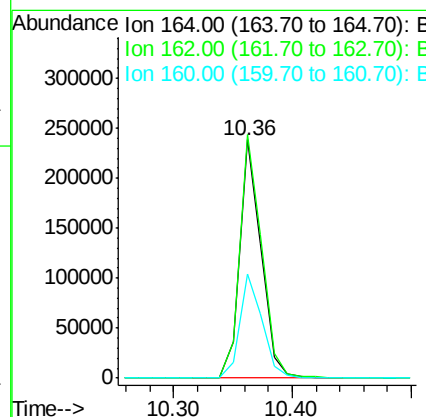
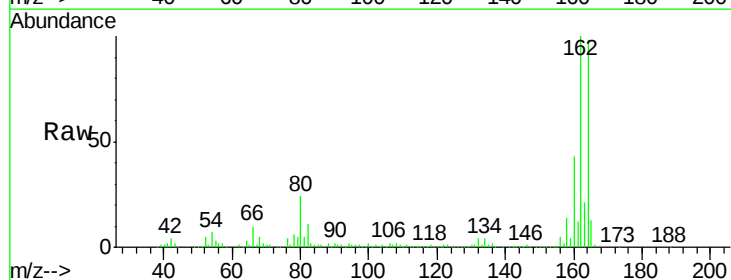
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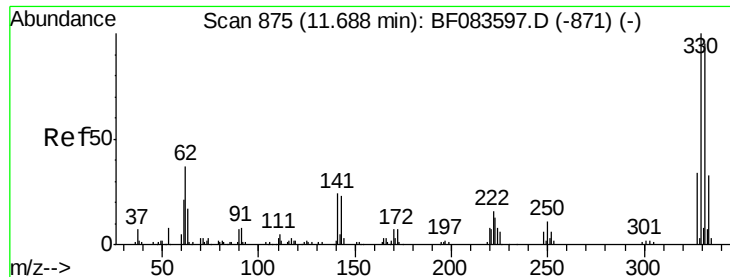
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	78.8	118.2
160	43.4	33.4	50.2





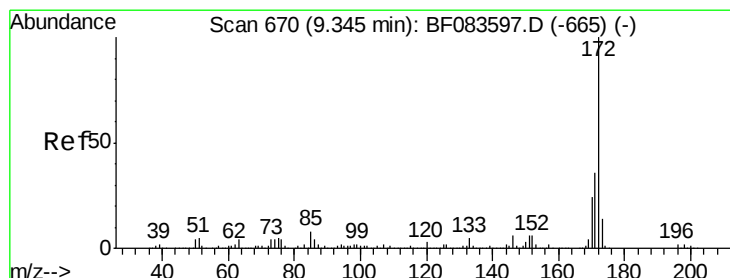
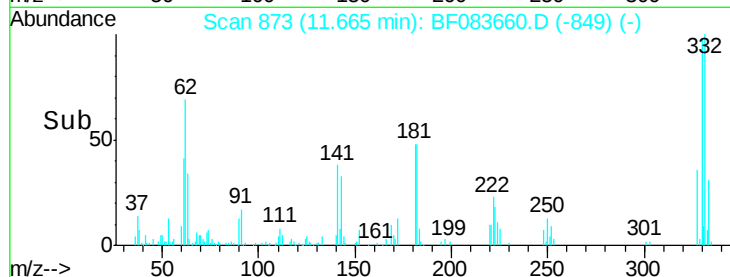
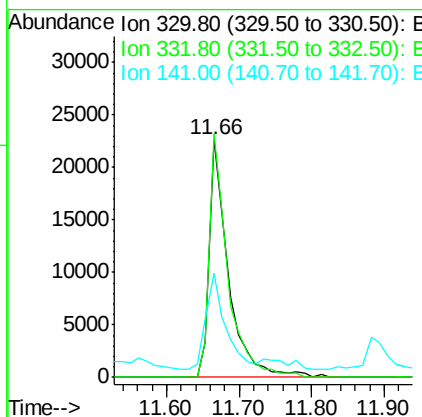
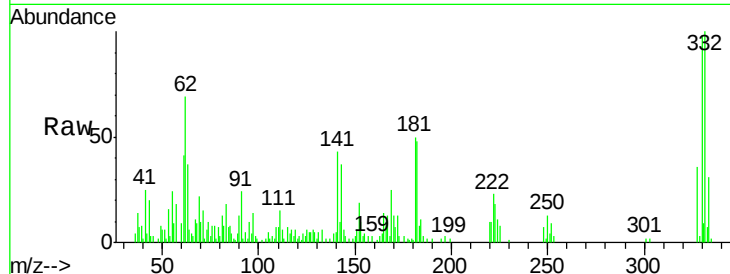
#41
 2,4,6-Tribromophenol
 Concen: 15.61 ng
 RT: 11.66 min Scan# 873
 Delta R.T. -0.02 min
 Lab File: BF083660.D
 Acq: 10 Dec 2015 2:16

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.7	0.0	0.0	0.0
141	40.7	0.0	0.0	0.0

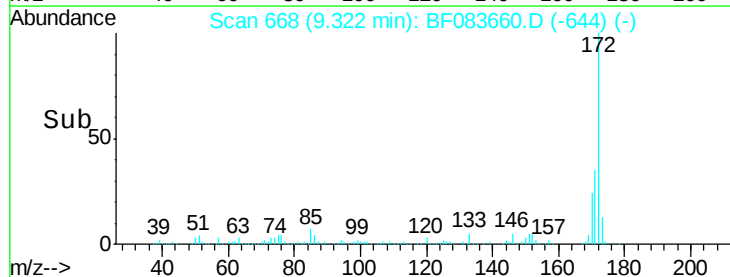
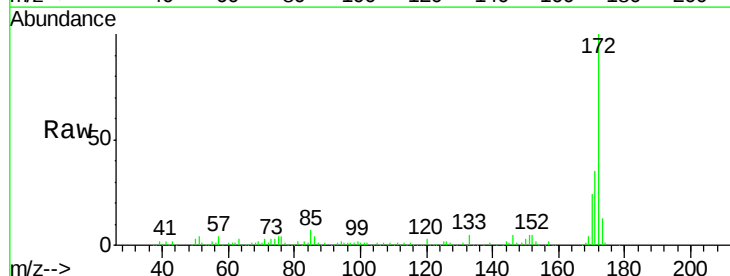
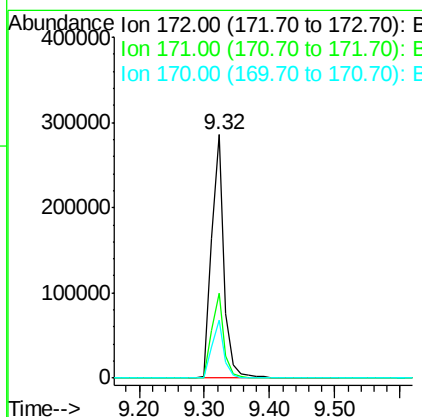
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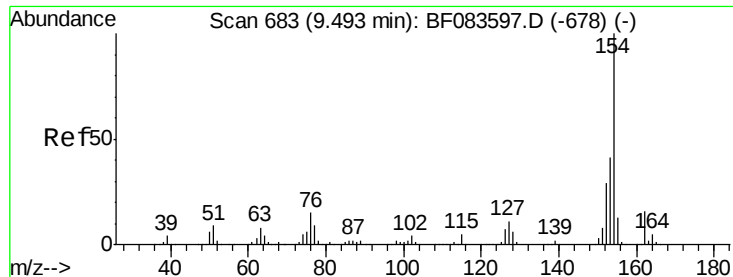
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#44
 2-Fluorobiphenyl
 Concen: 17.99 ng
 RT: 9.32 min Scan# 668
 Delta R.T. -0.02 min
 Lab File: BF083660.D
 Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.6	28.6	42.8	
170	23.9	19.4	29.0	





#45

1,1'-Biphenyl

Concen: 7.22 ng

RT: 9.47 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

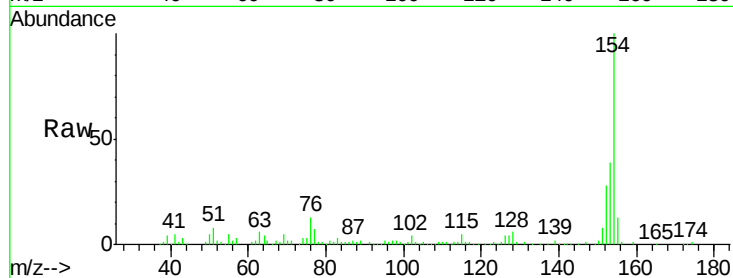
ClientSampleId :

SB-P3WC-10(0-6)DL

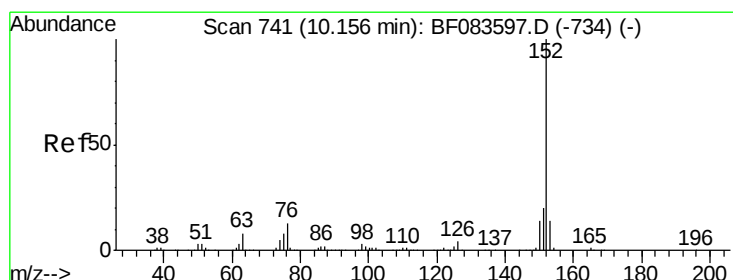
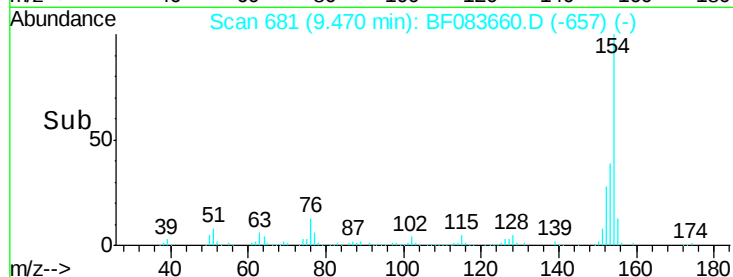
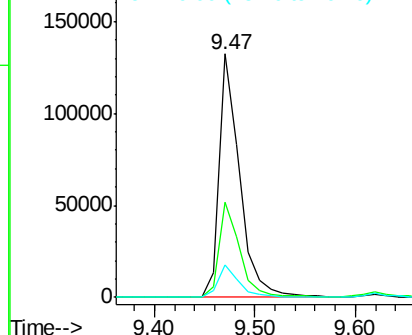
Tot Ion:	154	Resp:	188211
Ion Ratio	Lower	Upper	
154	100		
153	39.2	20.2	60.2
76	13.4	0.0	34.8

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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: 31.95 ng

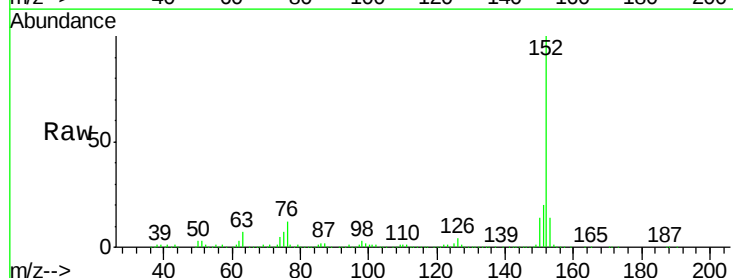
RT: 10.13 min Scan# 739

Delta R.T. -0.02 min

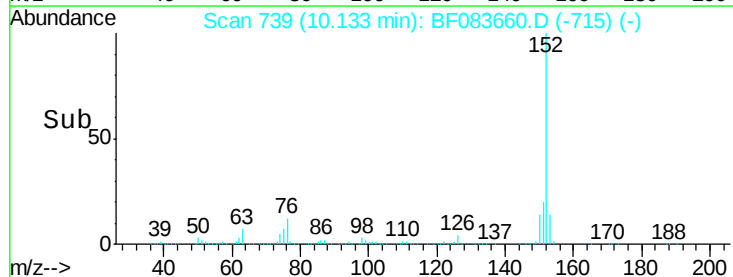
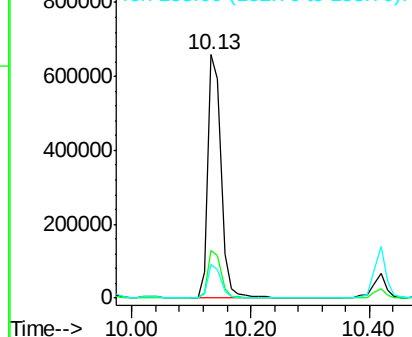
Lab File: BF083660.D

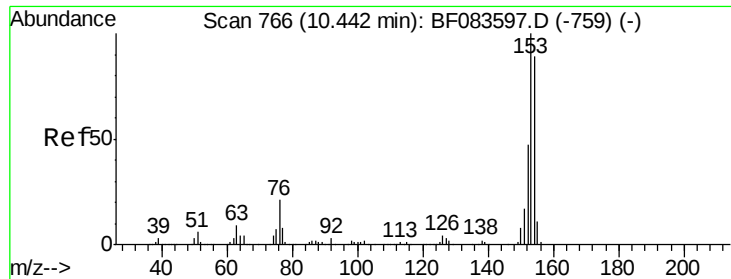
Acq: 10 Dec 2015 2:16

Tgt Ion:	152	Resp:	1037341
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.3	24.5
153	13.9	10.8	16.2



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





#51

Acenaphthene

Concen: 9.22 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

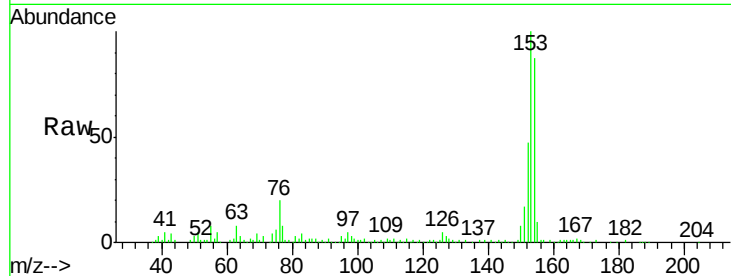
ClientSampleId :

SB-P3WC-10(0-6)DL

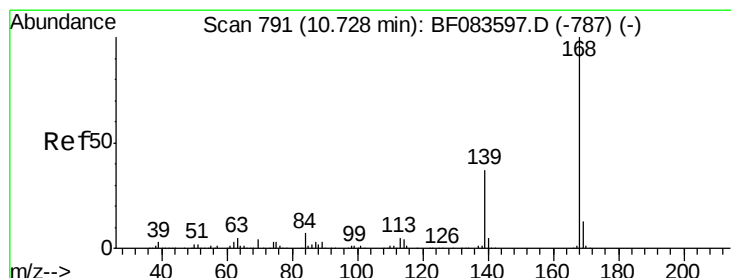
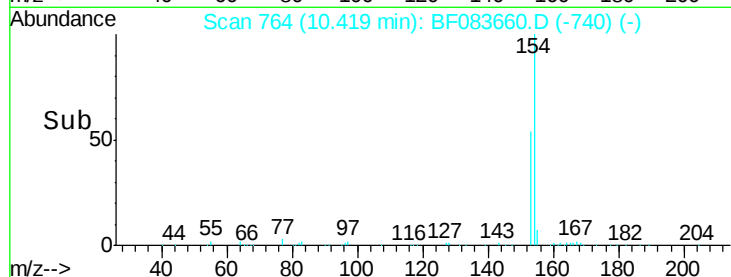
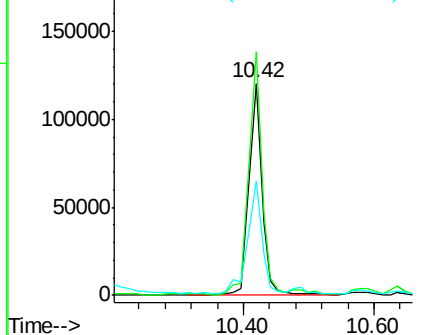
Tot Ion:	154	Resp:	171357
Ion Ratio	Lower	Upper	
154	100		
153	115.0	91.4	137.0
152	54.2	43.4	65.2

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.60 ng

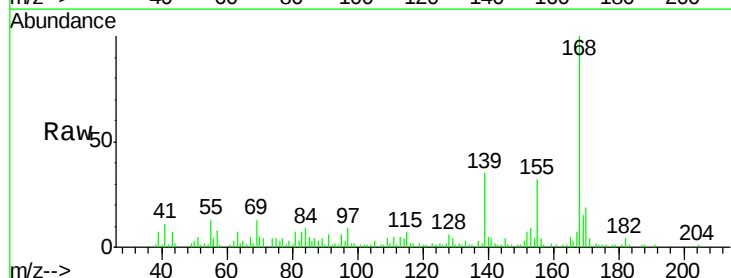
RT: 10.72 min Scan# 790

Delta R.T. -0.01 min

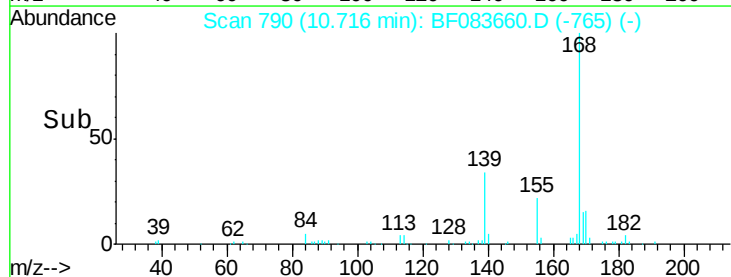
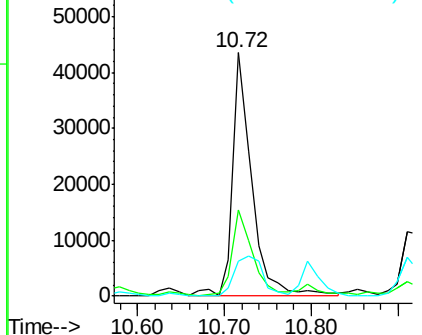
Lab File: BF083660.D

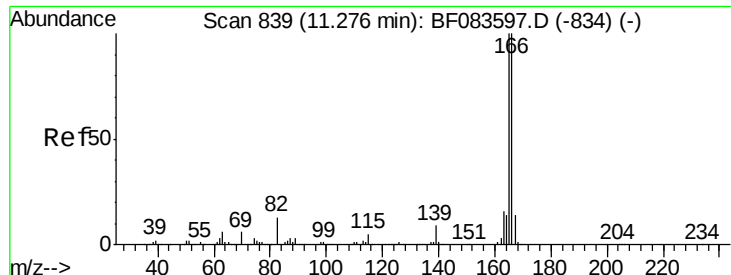
Acq: 10 Dec 2015 2:16

Tgt Ion:	168	Resp:	66968
Ion Ratio	Lower	Upper	
168	100		
139	35.3	28.0	42.0
169	14.6	10.8	16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 22.52 ng

RT: 11.25 min Scan# 837

Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

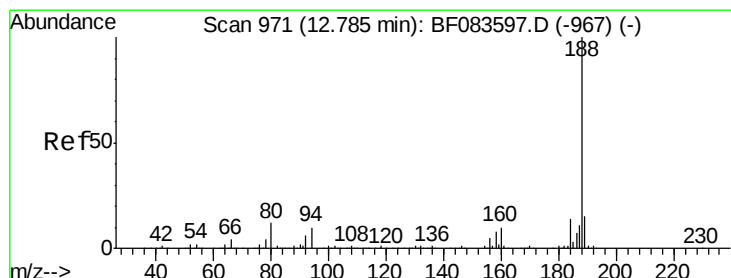
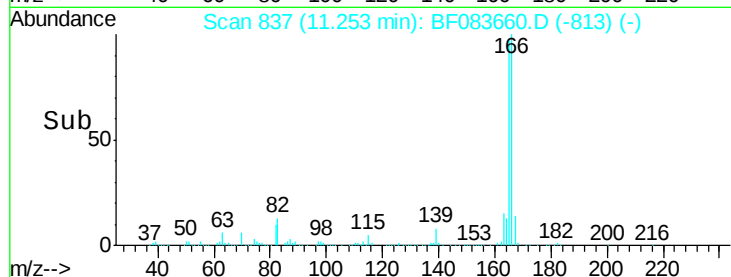
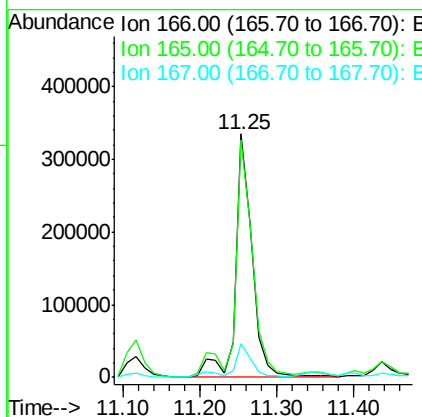
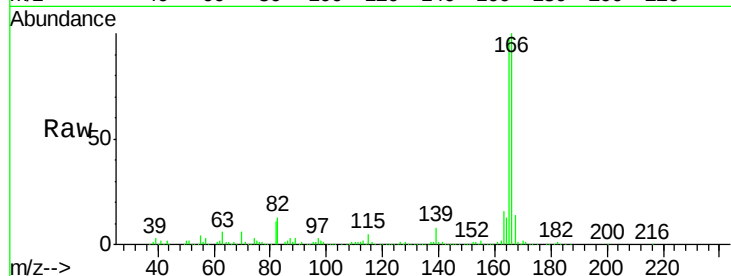
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	166	Resp:	506563
Ion Ratio		Lower	Upper
166	100		
165	97.4	80.0	120.0
167	14.1	10.6	16.0

Manual Integrations
APPROVED

MMdadoda
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#63

Phenanthrene-d10

Concen: 20.00 ng

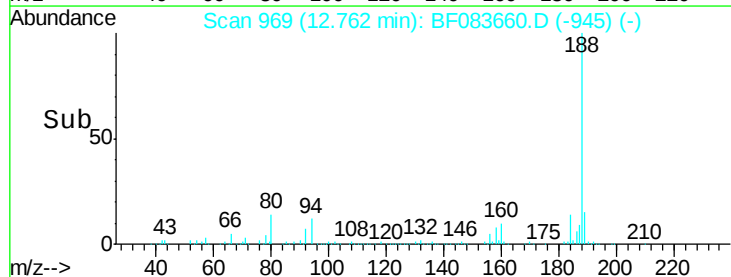
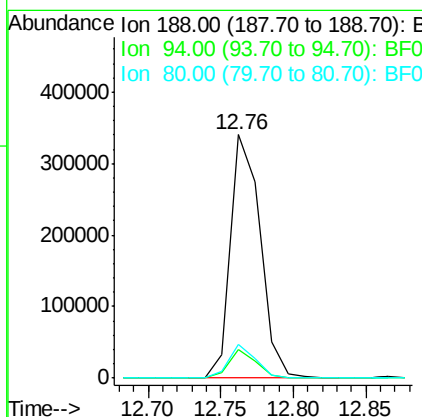
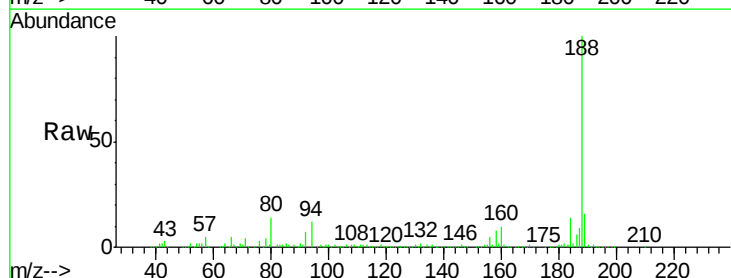
RT: 12.76 min Scan# 969

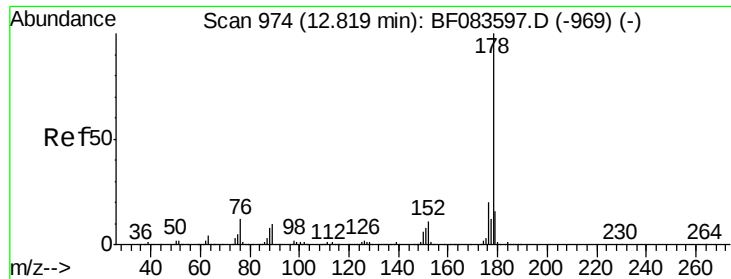
Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Tgt Ion:	188	Resp:	485390
Ion Ratio		Lower	Upper
188	100		
94	11.6	9.4	14.2
80	13.7	10.6	16.0





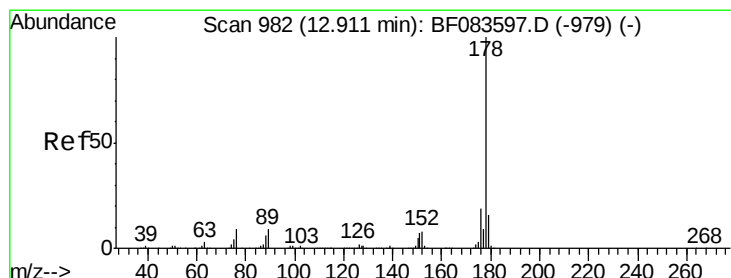
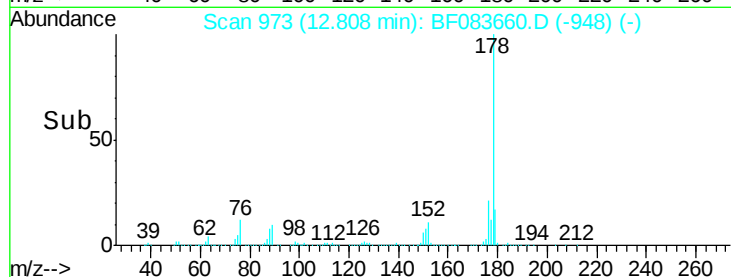
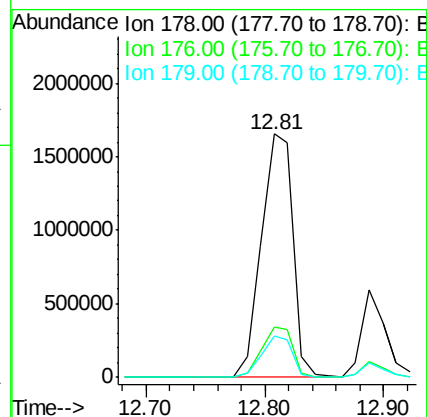
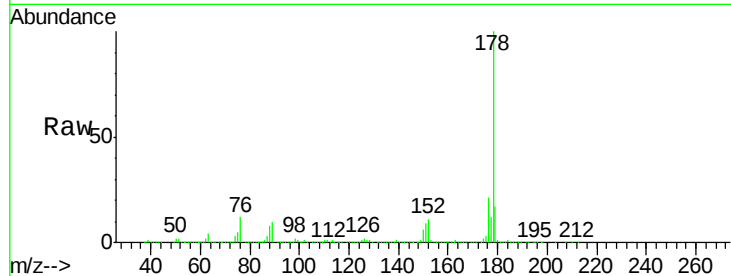
#70
Phenanthrene
Concen: 109.53 ng
RT: 12.81 min Scan# 973
Delta R.T. -0.01 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion:178 Resp: 3054687
Ion Ratio Lower Upper
178 100
176 20.7 15.7 23.5
179 16.8 12.2 18.4

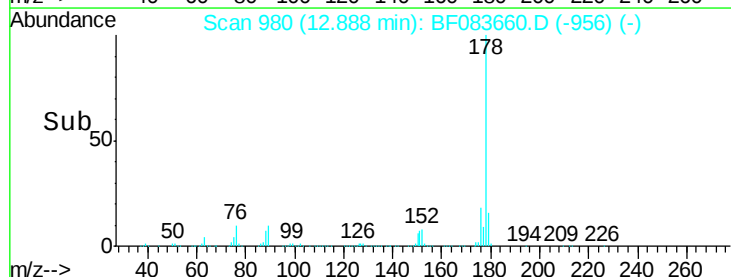
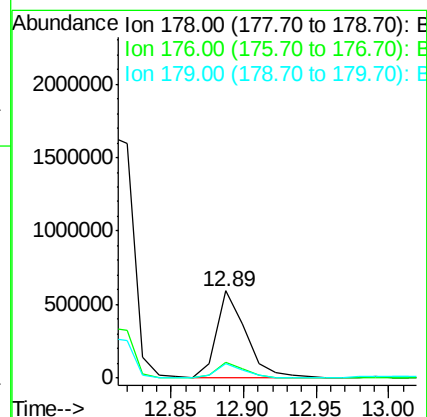
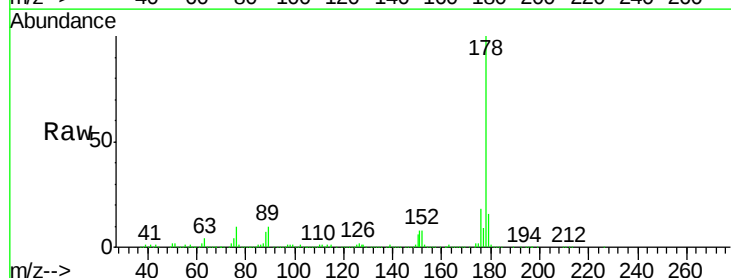
Manual Integrations
APPROVED

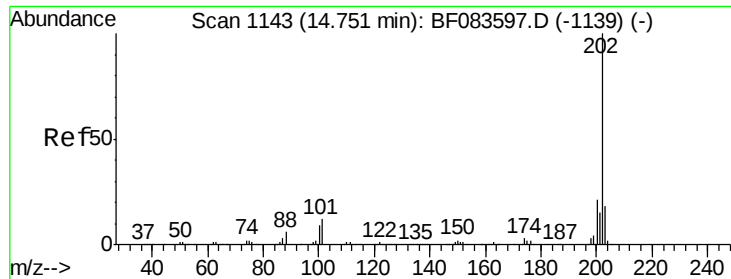
MMdadoda
12/10/2015 5:50:22 PM



#71
Anthracene
Concen: 28.66 ng
RT: 12.89 min Scan# 980
Delta R.T. -0.02 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion:178 Resp: 828079
Ion Ratio Lower Upper
178 100
176 18.5 15.2 22.8
179 16.3 12.6 18.8





#74

Fluoranthene

Concen: 71.91 ng

RT: 14.74 min Scan# 1142

Delta R.T. -0.01 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

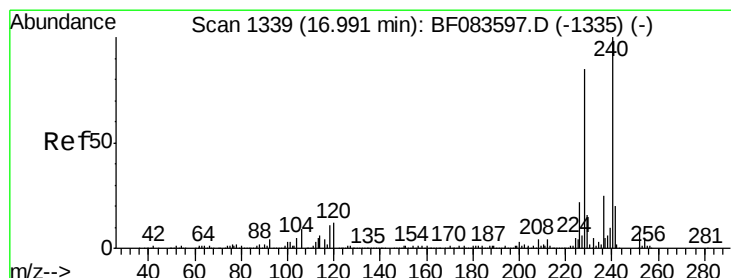
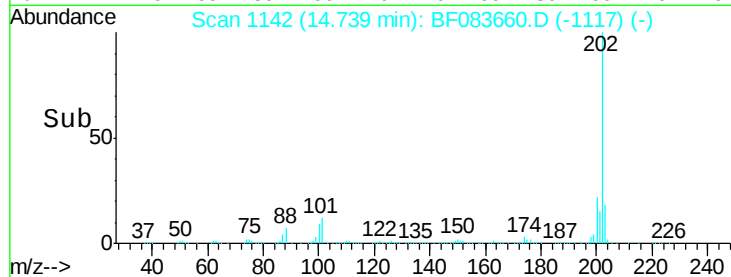
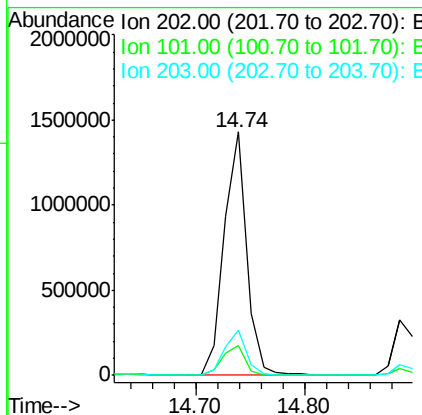
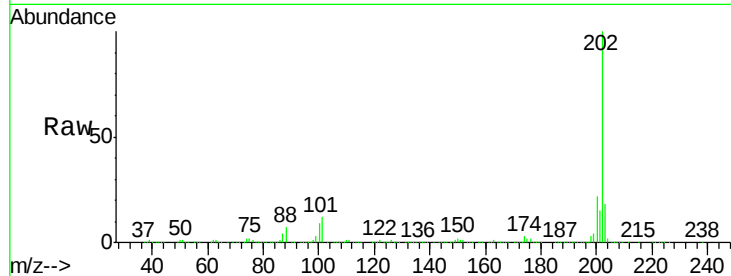
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:	202	Resp:	2051688
Ion Ratio	Lower	Upper	
202	100		
101	12.2	0.0	31.5
203	18.4	0.0	37.6

Manual Integrations
APPROVED

MMdadoda
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#75

Chrysene-d12

Concen: 20.00 ng

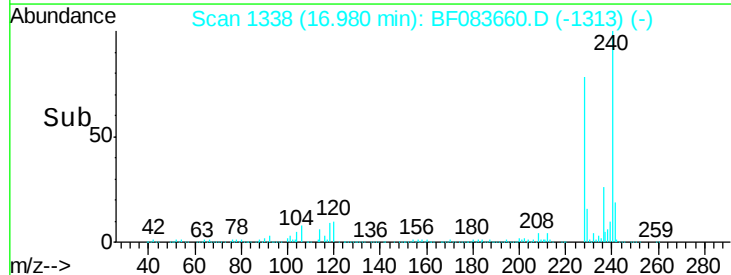
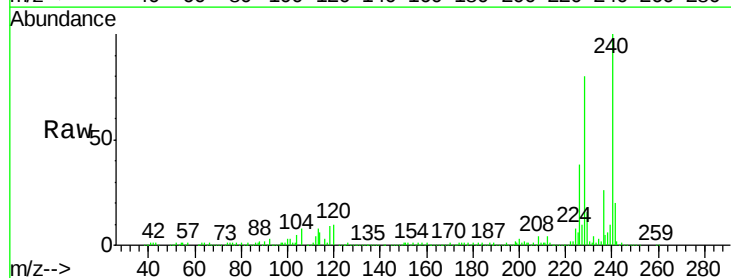
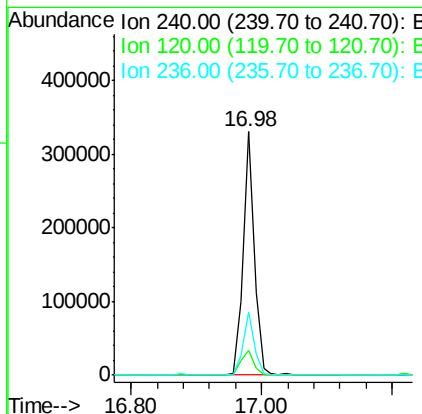
RT: 16.98 min Scan# 1338

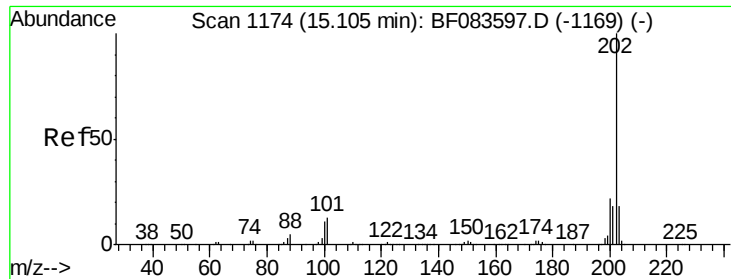
Delta R.T. -0.01 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Tgt Ion:	240	Resp:	387987
Ion Ratio	Lower	Upper	
240	100		
120	10.1	8.1	12.1
236	26.1	20.8	31.2





#77

Pvrene

Concen: 100.17 ng

RT: 15.09 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion:202 Resp: 2798018

Ion Ratio Lower Upper

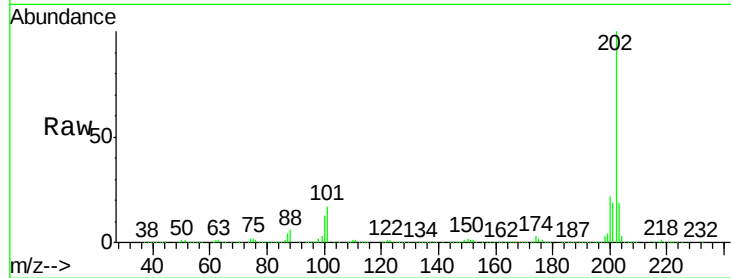
202 100

200 22.5 16.7 25.1

203 19.3 14.3 21.5

Manual Integrations
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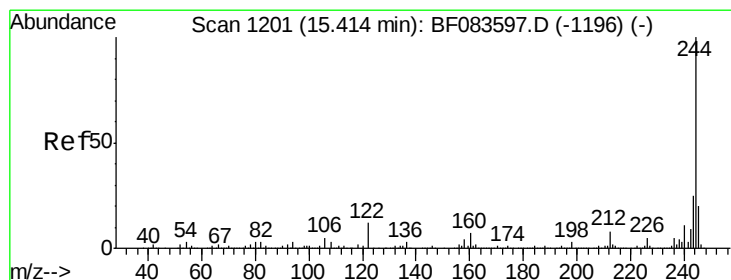
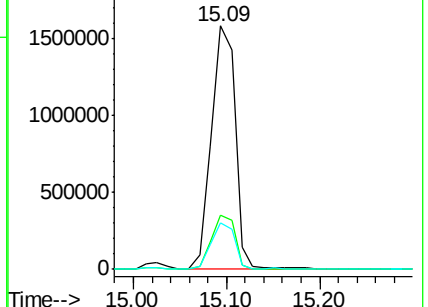
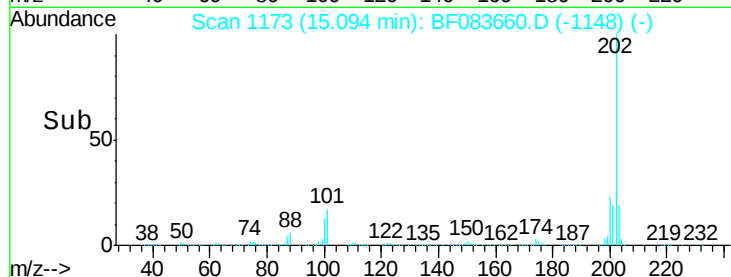
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 16.52 ng

RT: 15.39 min Scan# 1199

Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

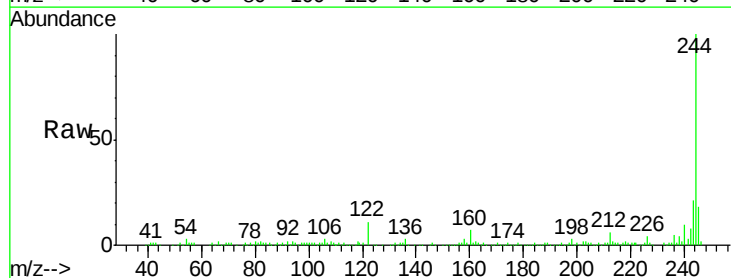
Tgt Ion:244 Resp: 272366

Ion Ratio Lower Upper

244 100

212 6.5 6.1 9.1

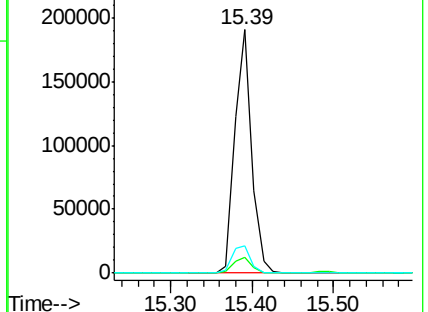
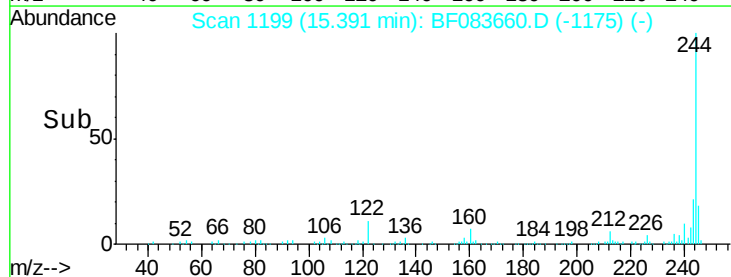
122 11.4 11.0 16.6

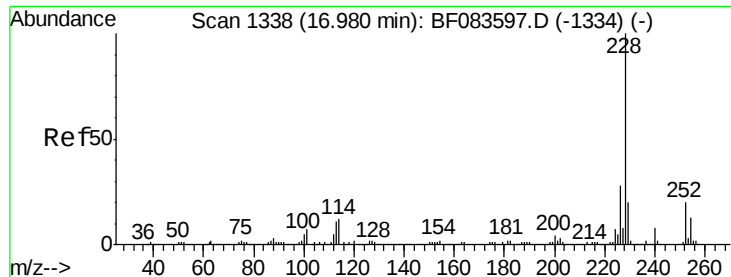


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





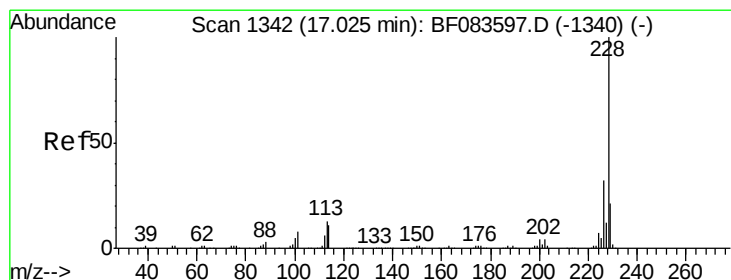
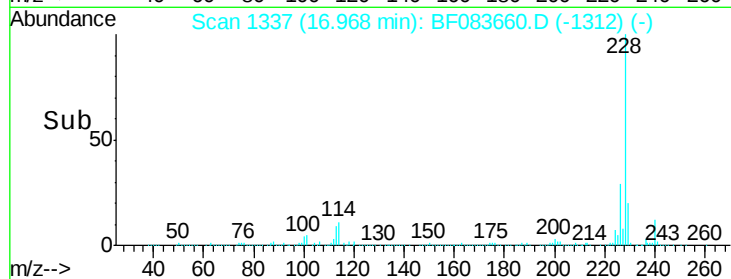
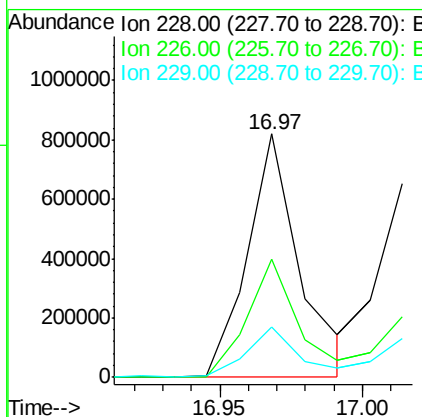
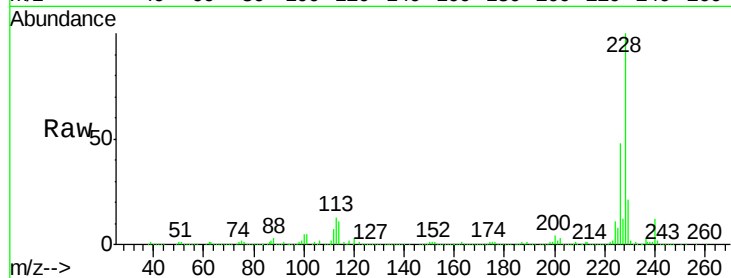
#80
Benzo(a)anthracene
Concen: 45.89 ng m
RT: 16.97 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion:228 Resp: 1042050
Ion Ratio Lower Upper
228 100
226 48.4 22.3 33.5#
229 20.5 15.7 23.5

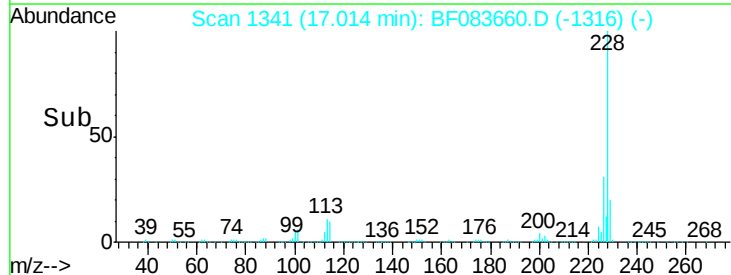
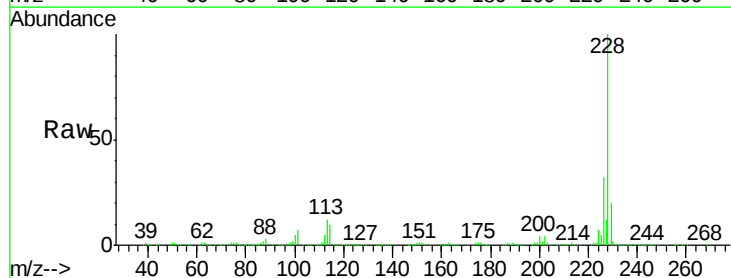
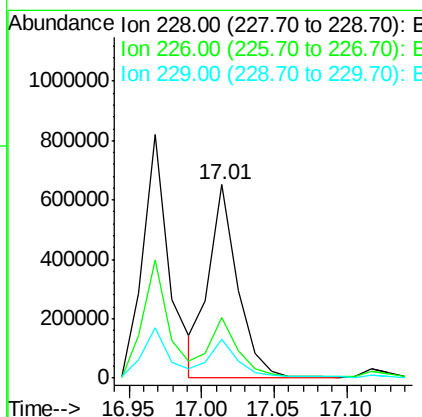
Manual Integrations
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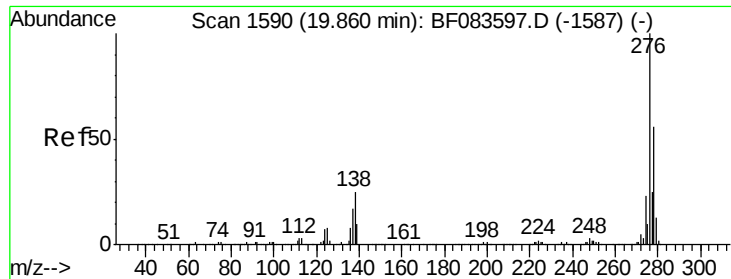
MMdadoda
12/10/2015 5:50:22 PM



#82
Chrysene
Concen: 39.62 ng
RT: 17.01 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion:228 Resp: 901897
Ion Ratio Lower Upper
228 100
226 31.6 24.7 37.1
229 20.4 16.3 24.5





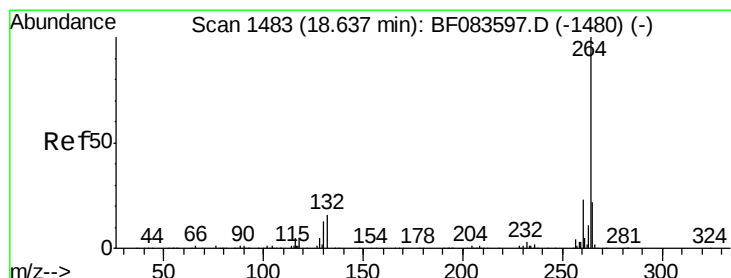
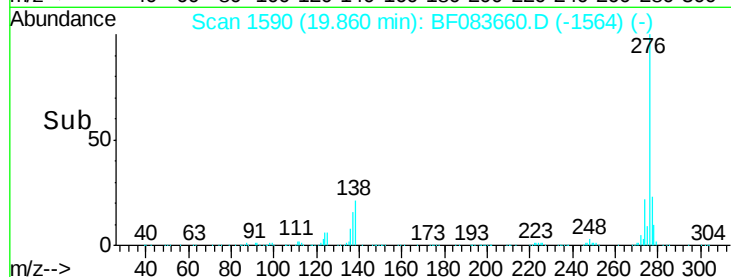
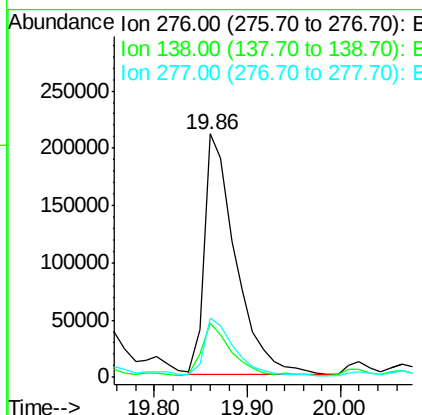
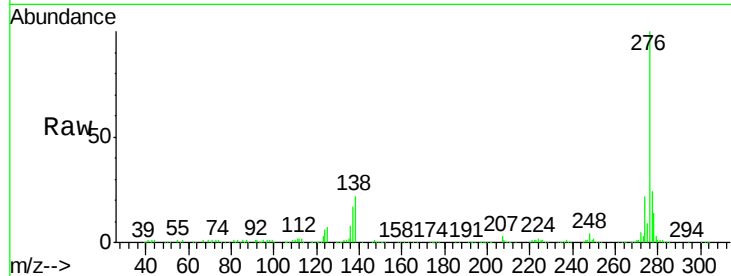
#85
Indeno(1,2,3-cd)pyrene
Concen: 31.92 ng
RT: 19.86 min Scan# 1590
Delta R.T. 0.00 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	21.6	0.0	0.0	
277	23.0	0.0	0.0	

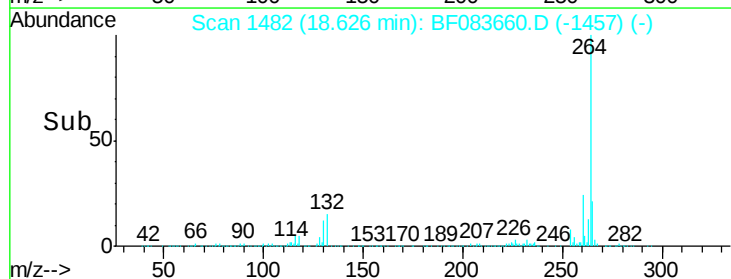
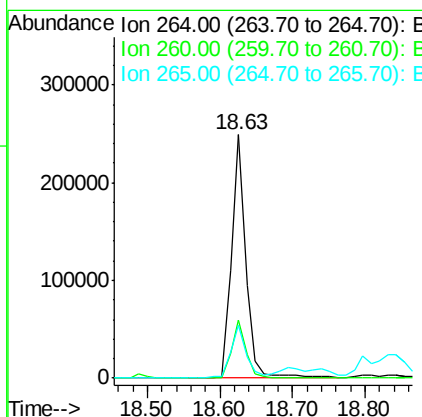
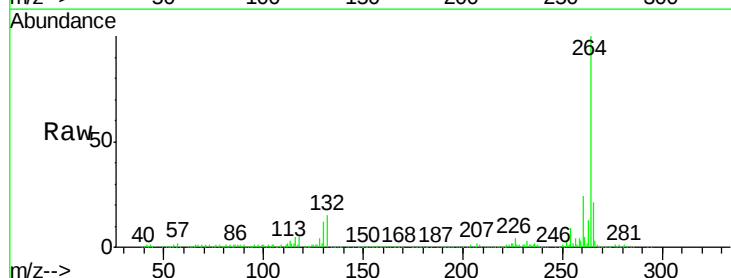
Manual Integrations
APPROVED

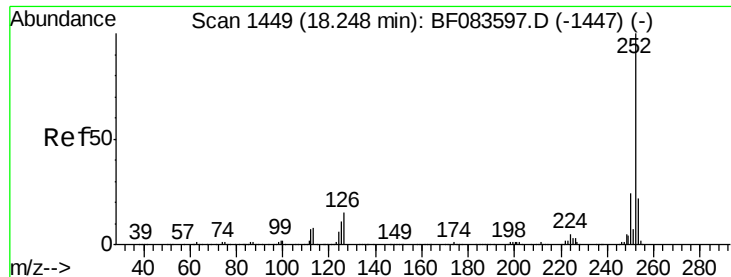
MMdadoda
12/10/2015 5:50:22 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 18.63 min Scan# 1482
Delta R.T. -0.01 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.7	19.4	29.0	
265	21.5	17.8	26.6	





#87

Benzo(b)fluoranthene

Concen: 45.19 ng m

RT: 18.25 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Instrument :

BNA_F

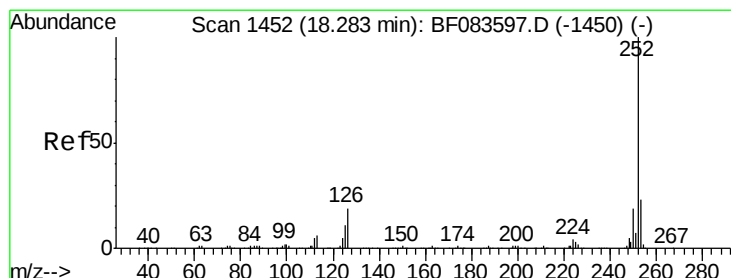
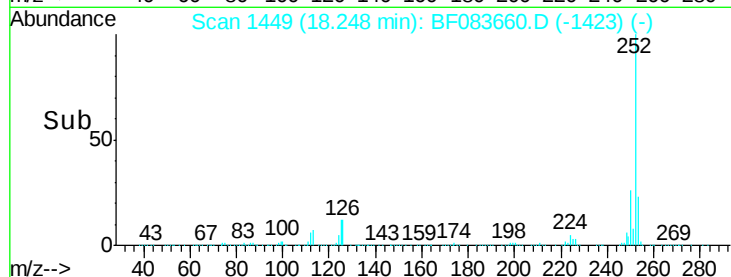
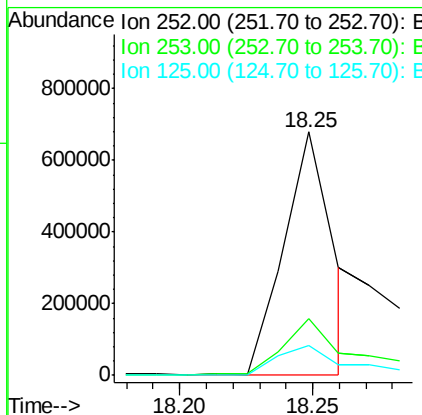
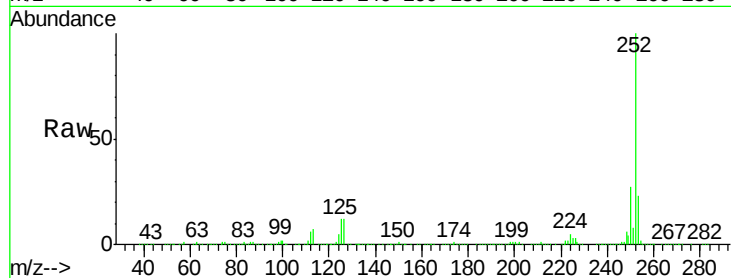
ClientSampleId :

SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.4
125	12.1	8.2	12.4

Manual Integrations
APPROVED

MMdadoda
12/10/2015 5:50:22 PM



#88

Benzo(k)fluoranthene

Concen: 17.49 ng m

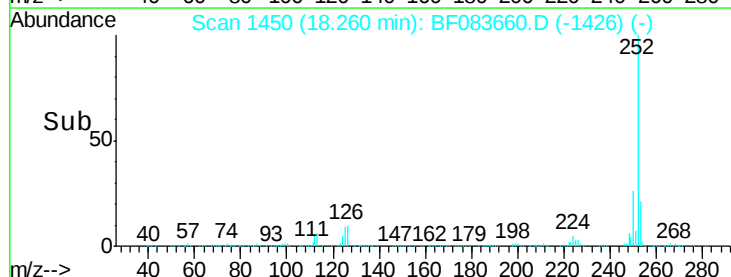
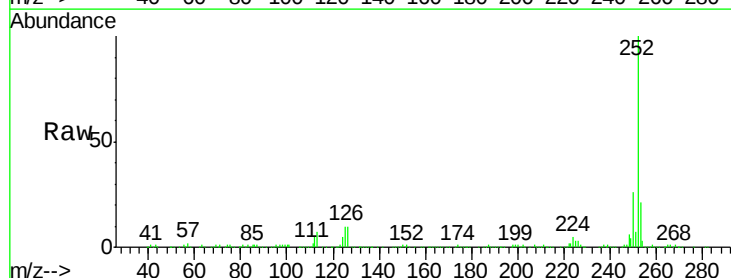
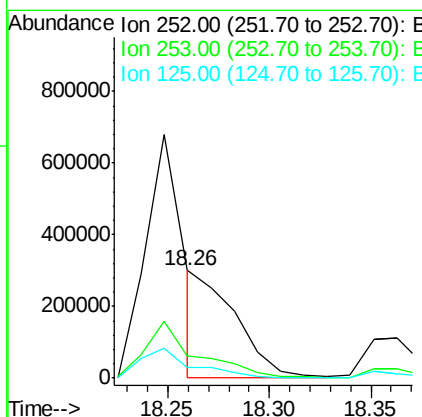
RT: 18.26 min Scan# 1450

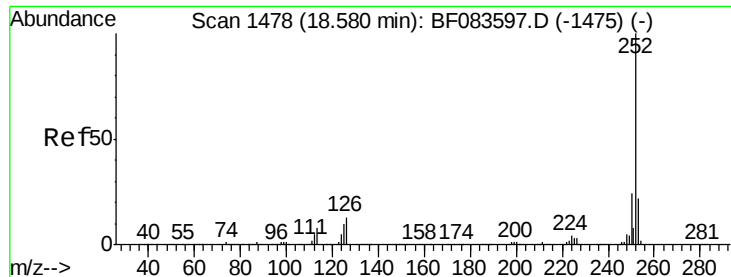
Delta R.T. -0.02 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.6	27.8
125	9.5	11.5	17.3#





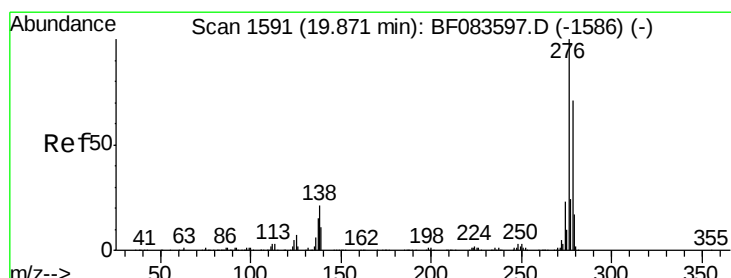
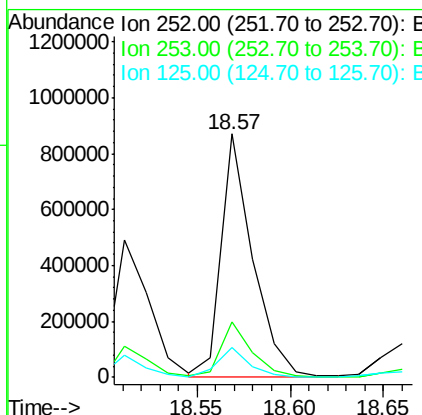
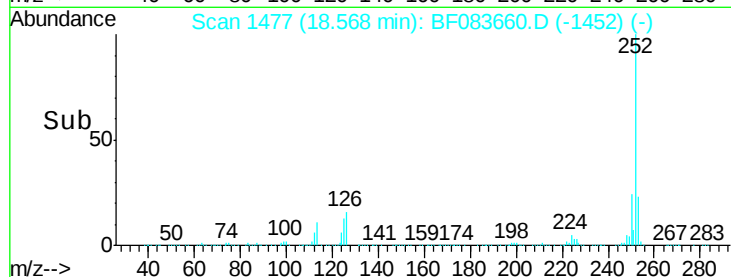
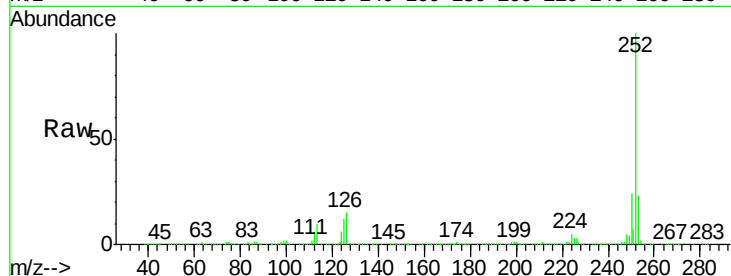
#89
Benzo(a)pyrene
Concen: 54.44 ng
RT: 18.57 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-10(0-6)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	12.2	11.0	16.6

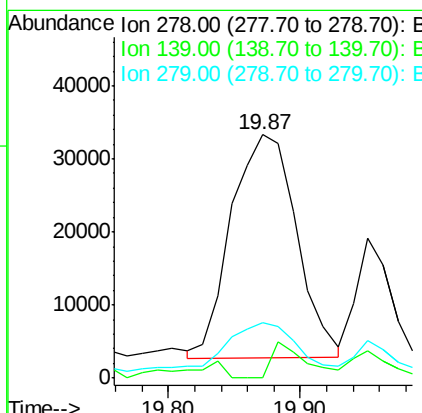
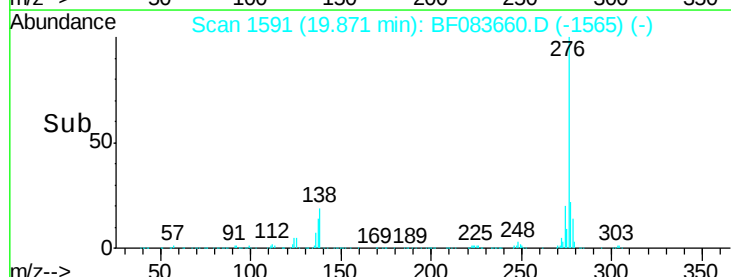
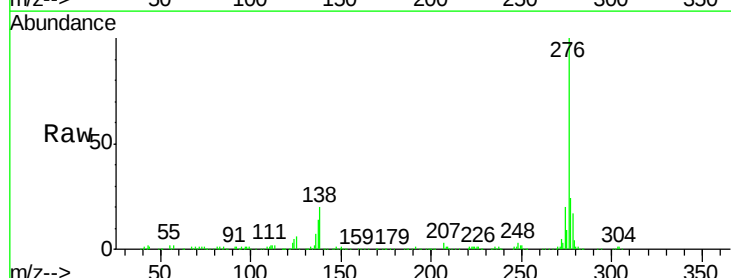
Manual Integrations
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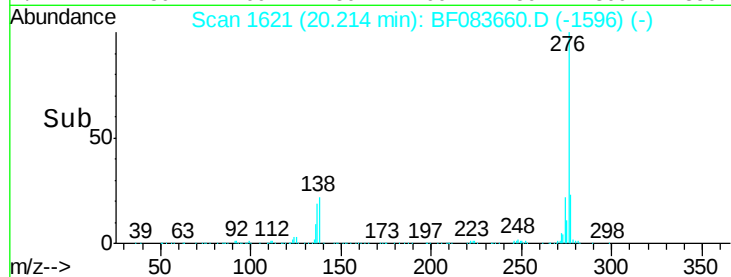
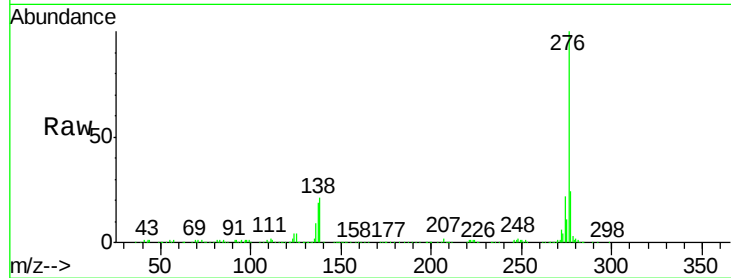
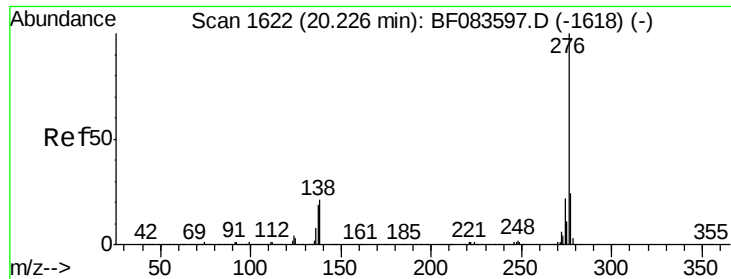
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#90
Dibenzo(a,h)anthracene
Concen: 7.25 ng m
RT: 19.87 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BF083660.D
Acq: 10 Dec 2015 2:16

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2#
279	22.9	18.6	28.0





#91

Benzo(a,h,i)perylene

Concen: 41.84 ng

RT: 20.21 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BF083660.D

Acq: 10 Dec 2015 2:16

Tot Ion:	276	Resp:	589648
Ion Ratio		Lower	Upper
276	100		
277	23.5	19.2	28.8
138	21.4	19.5	29.3

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-10(0-6)DL

Manual Integrations
APPROVED

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