

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110915\
 Data File : BF082864.D
 Acq On : 10 Nov 2015 10:11
 Operator : UM/IZ
 Sample : G4327-01
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1

Manual Integrations
 APPROVED

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 11/10/2015 1:02:54 PM

Quant Time: Nov 10 10:49:00 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 07 02:32:49 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	234264	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	778474	20.00	ng	-0.02
38) Acenaphthene-d10	9.87	164	373998	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	576119	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	451357	20.00	ng	-0.02
86) Perylene-d12	15.43	264	411747	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	1747870	116.09	ng	0.00
7) Phenol-d6	6.48	99	2375879	118.70	ng	0.00
23) Nitrobenzene-d5	7.39	82	1513506	84.60	ng	-0.02
41) 2,4,6-Tribromophenol	10.66	330	400566	93.41	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	1794203	68.76	ng	-0.02
78) Terphenyl-d14	12.95	244	1438356	75.58	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.13	128	116094	2.70	ng	98
48) Acenaphthylene	9.73	152	172644	4.40	ng	99
49) Dimethylphthalate	9.58	163	460947	15.04	ng	100
51) Acenaphthene	9.90	154	151699	6.10	ng	98
54) Dibenzofuran	10.08	168	150138	4.48	ng	# 82
57) Fluorene	10.42	166	168947	6.22	ng	100
70) Phenanthrene	11.38	178	2797985	83.63	ng	99
71) Anthracene	11.42	178	670308	19.02	ng	98
72) Carbazole	11.57	167	173606	5.63	ng	97
74) Fluoranthene	12.57	202	2580475	71.88	ng	95
77) Pyrene	12.80	202	2379317	76.76	ng	98
80) Benzo(a)anthracene	13.99	228	1393939	49.39	ng	98
82) Chrysene	14.02	228	1168796m	45.21	ng	
85) Indeno(1,2,3-cd)pyrene	16.81	276	379964	17.07	ng	95
87) Benzo(b)fluoranthene	15.03	252	1084955m	41.05	ng	
88) Benzo(k)fluoranthene	15.05	252	417456m	17.81	ng	
89) Benzo(a)pyrene	15.37	252	738916	32.27	ng	# 96
90) Dibenzo(a,h)anthracene	16.81	278	104928	5.41	ng	# 91
91) Benzo(a,h,i)perylene	17.22	276	343828	18.51	ng	# 95

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

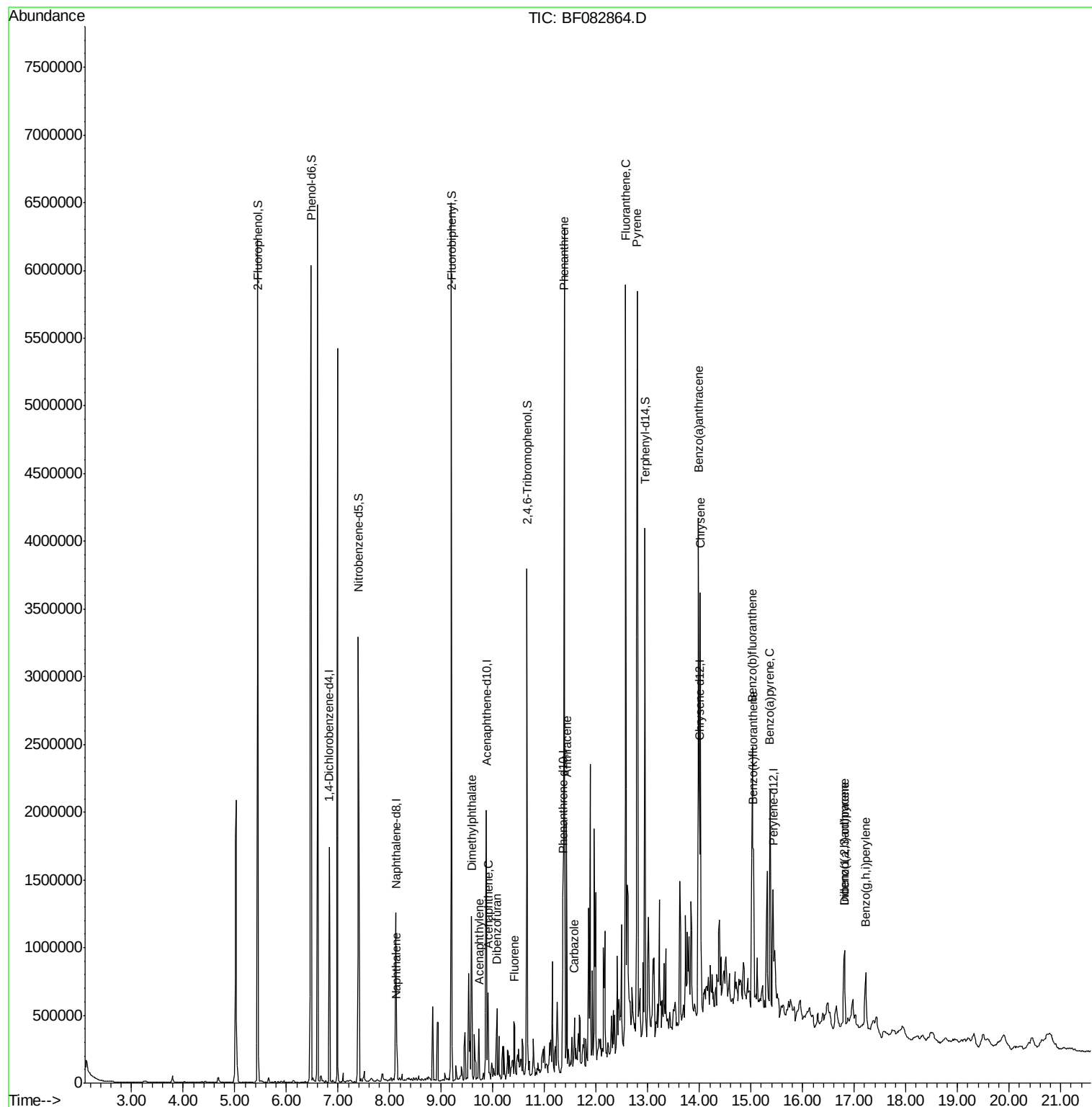
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110915\
Data File : BF082864.D
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Misc :
ALS Vial : 35 Sample Multiplier: 1

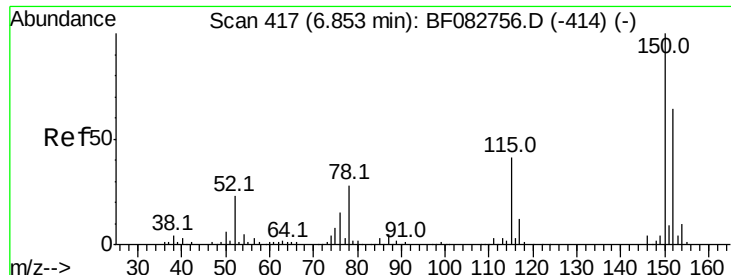
Instrument :
BNA_F
ClientSampled :
1

Manual Integrations
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Quant Time: Nov 10 10:49:00 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 07 02:32:49 2015
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#1

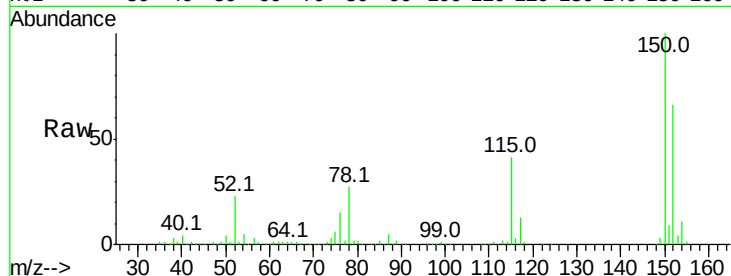
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 415
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.1	127.0	190.4
115	62.2	47.0	70.6

Manual Integrations
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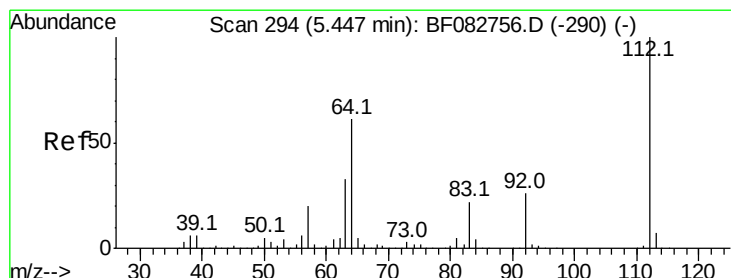
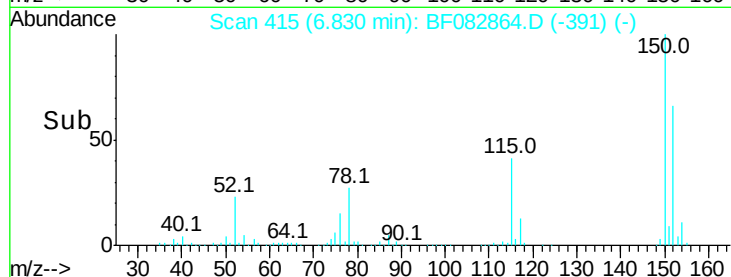
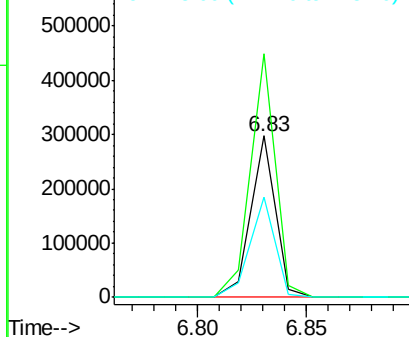


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

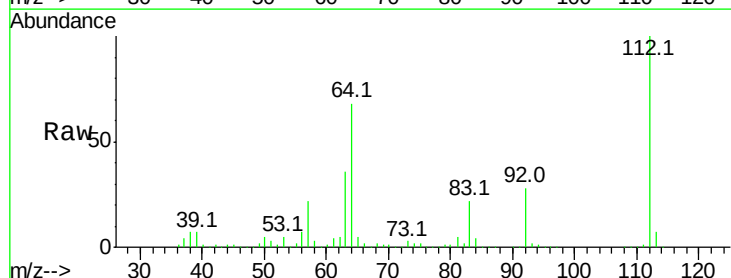
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 116.09 ng
RT: 5.45 min Scan# 294
Delta R.T. 0.00 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.7	48.9	73.3
63	35.8	28.1	42.1

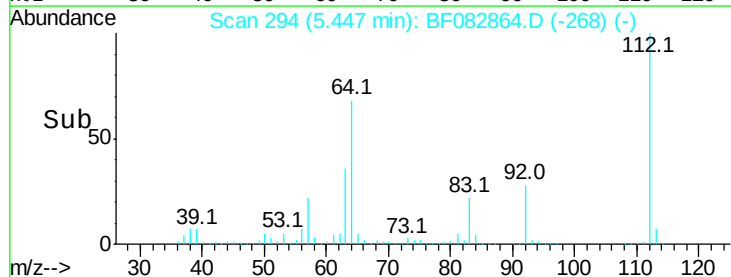
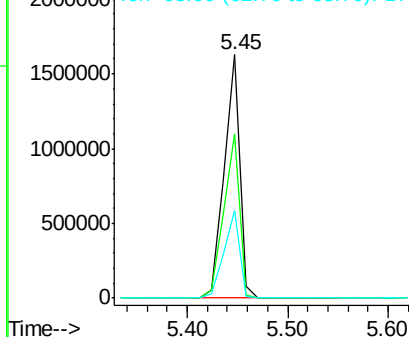


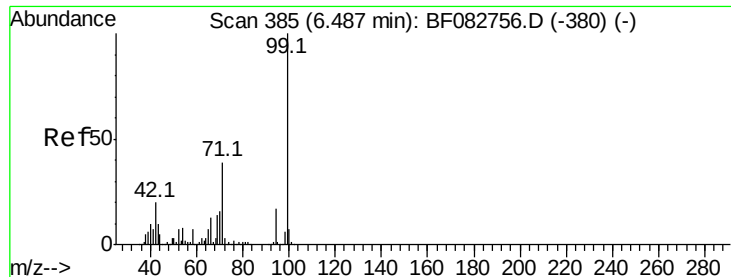
Abundance

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: 118.70 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.00 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

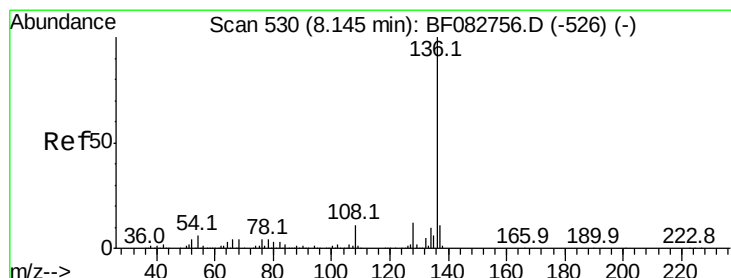
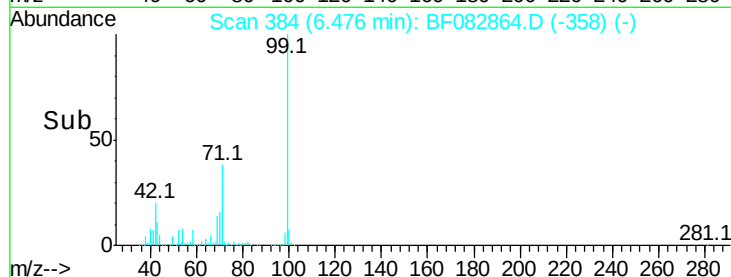
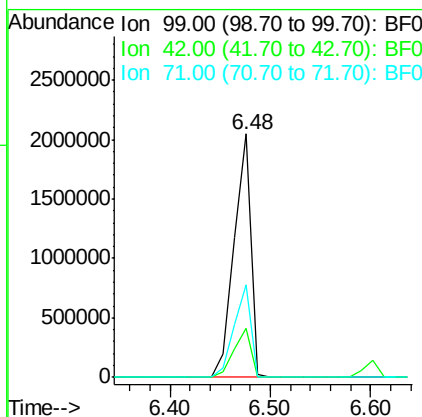
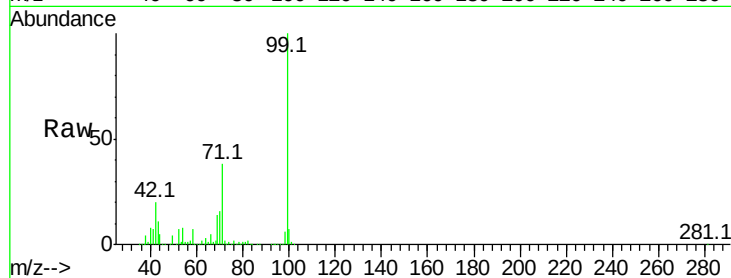
ClientSampleId :

1

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Tot Ion:	99	Resp:	2375879
Ion	Ratio	Lower	Upper
99	100		
42	20.1	19.2	28.8
71	38.1	35.0	52.4



#21

Naphthalene-d8

Concen: 20.00 ng

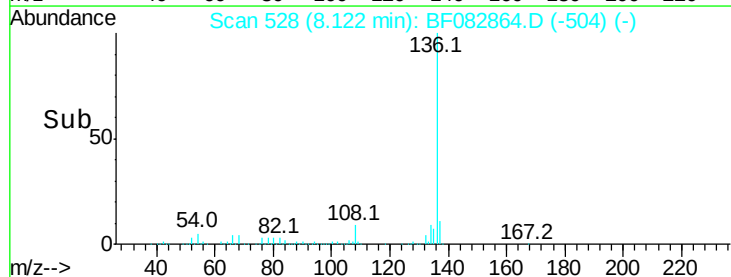
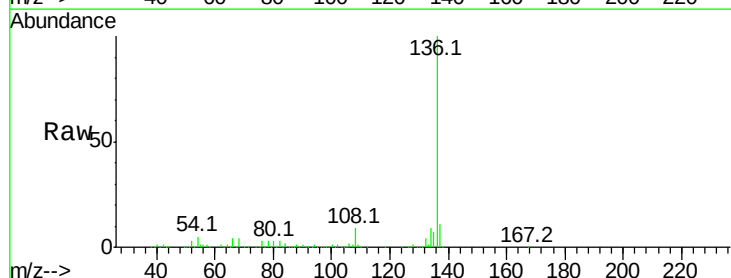
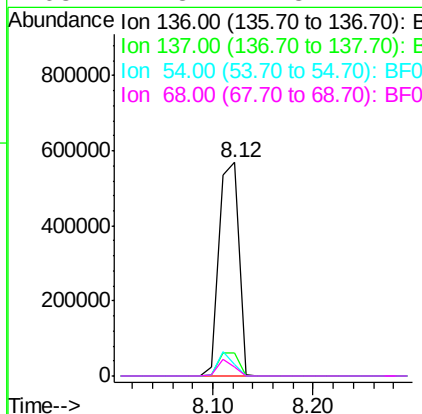
RT: 8.12 min Scan# 528

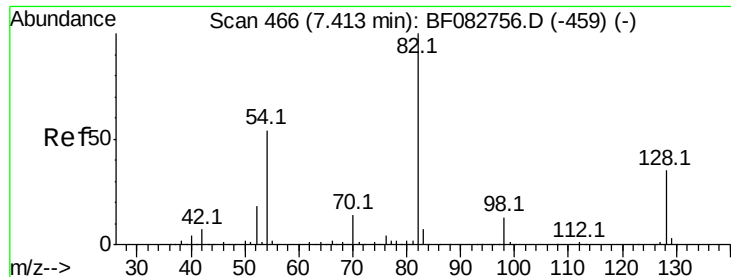
Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion:	136	Resp:	778474
Ion	Ratio	Lower	Upper
136	100		
137	10.5	9.1	13.7
54	5.5	9.1	13.7#
68	4.3	4.8	7.2#





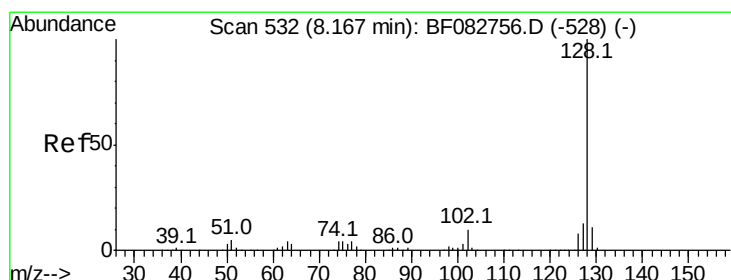
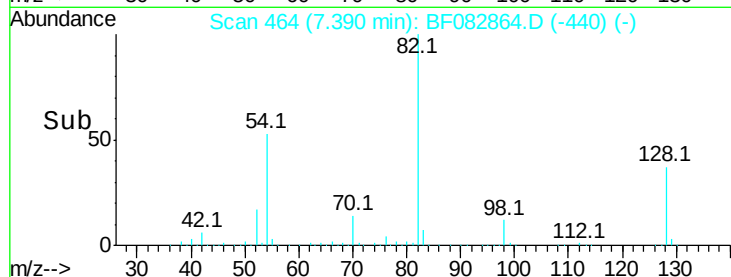
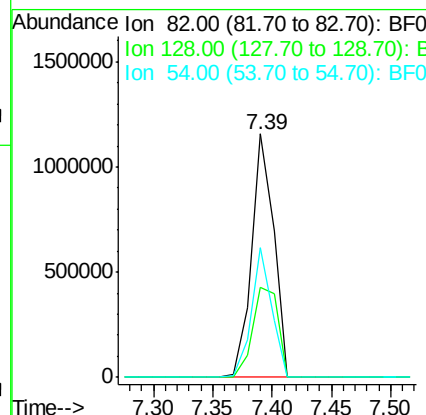
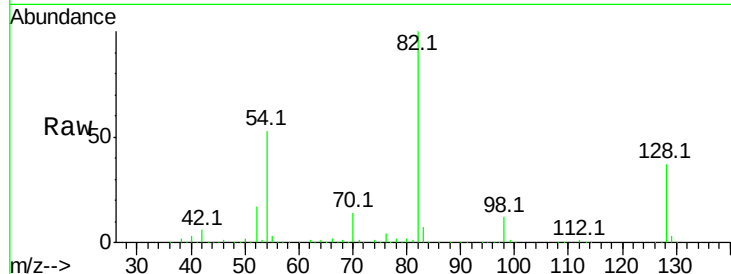
#23
Nitrobenzene-d5
Concen: 84.60 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampled :
1

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.1	26.8	40.2
54	53.1	45.7	68.5

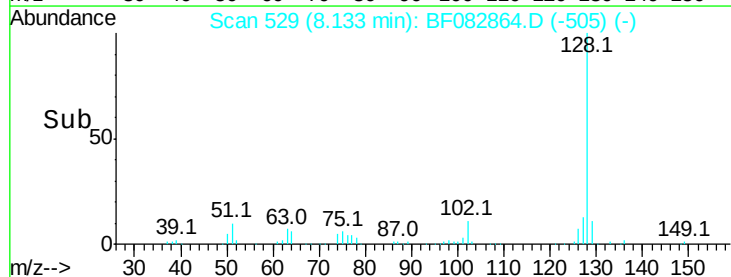
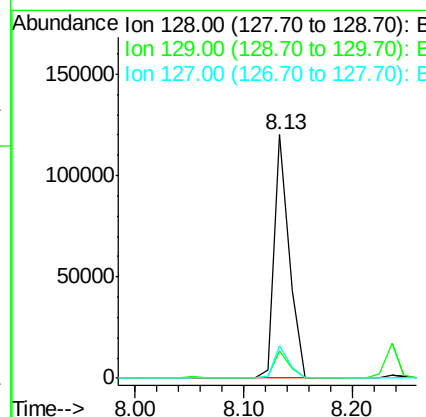
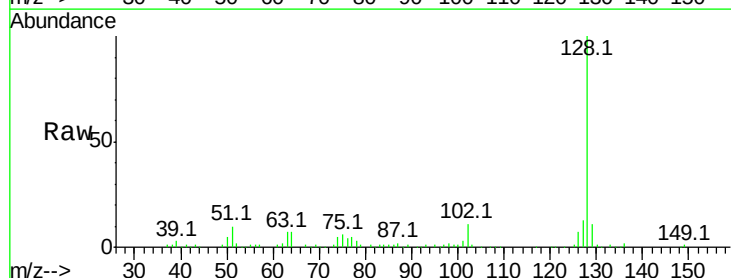
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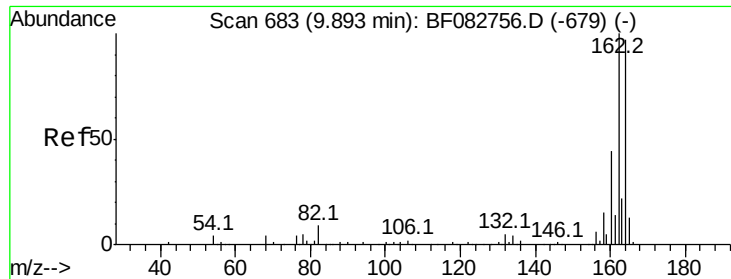
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#31
Naphthalene
Concen: 2.70 ng
RT: 8.13 min Scan# 529
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.5	14.3
127	13.3	11.4	17.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

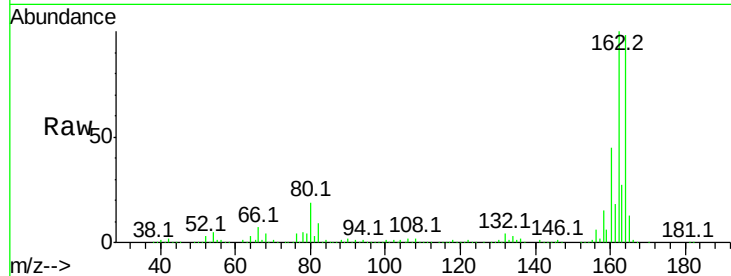
ClientSampleId :

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Manual Integrations
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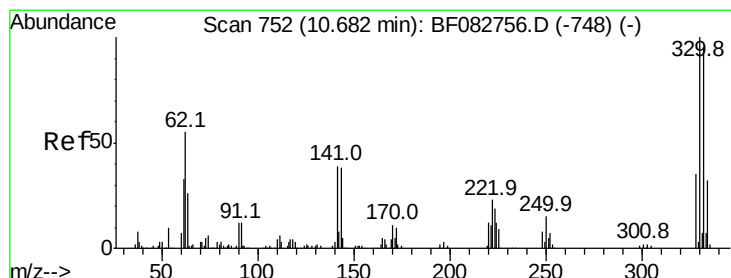
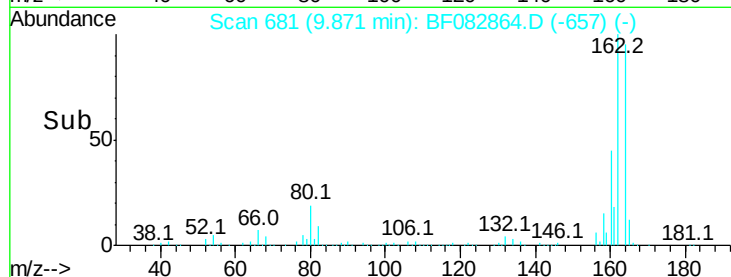
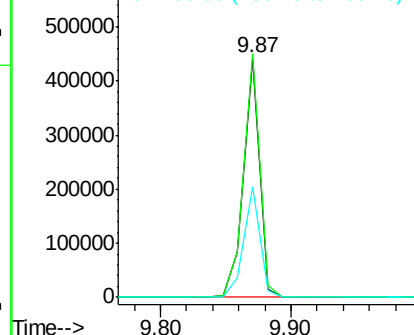
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.9	84.9	127.3	
160	46.2	37.5	56.3	



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 93.41 ng

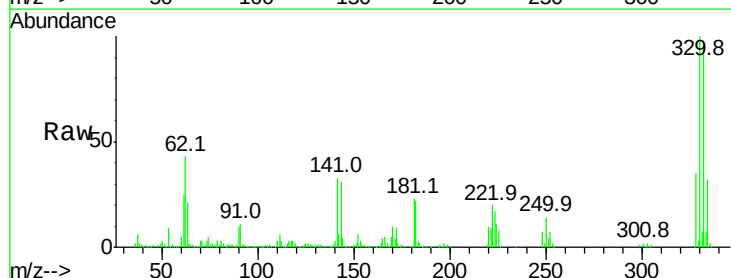
RT: 10.66 min Scan# 750

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

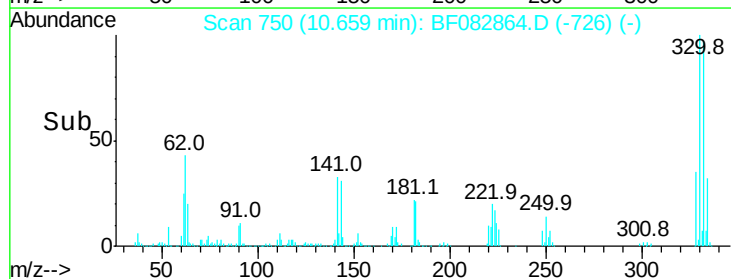
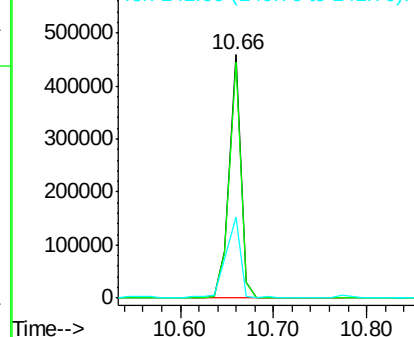
Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.6	76.6	114.8	
141	40.7	41.2	61.8#	

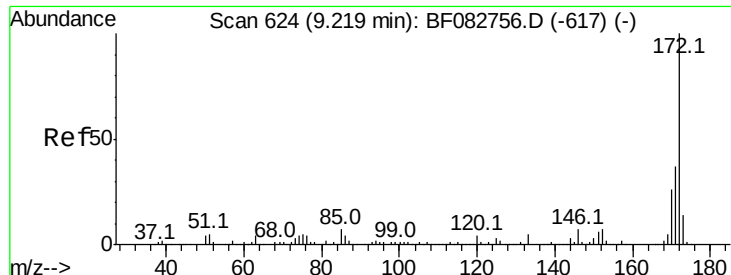


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





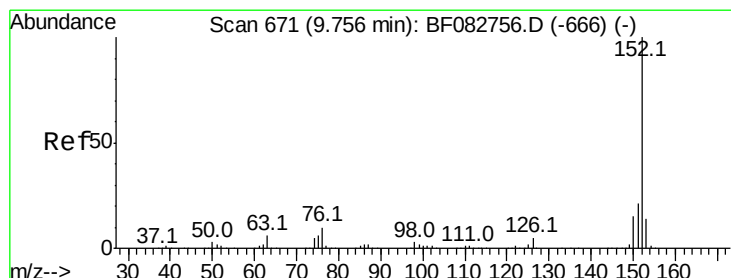
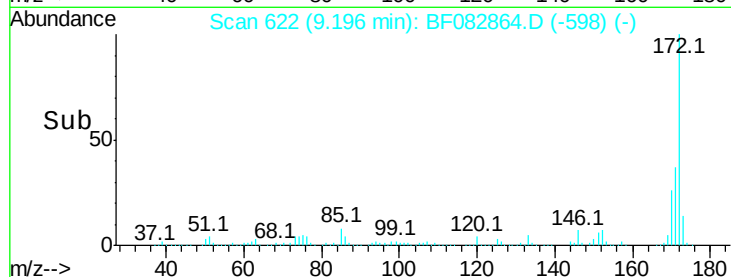
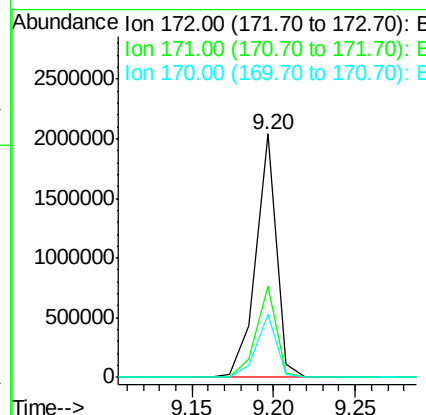
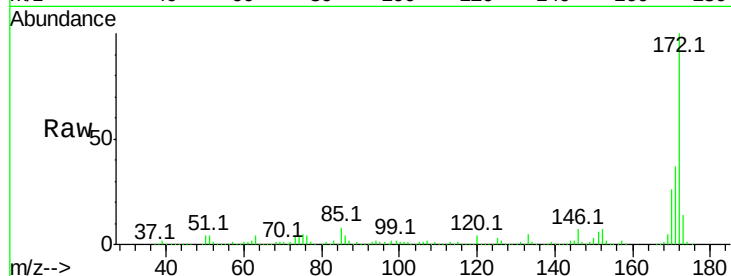
#44
2-Fluorobiphenyl
Concen: 68.76 ng
RT: 9.20 min Scan# 622
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampled :
1

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.3	30.8	46.2
170	25.8	21.2	31.8

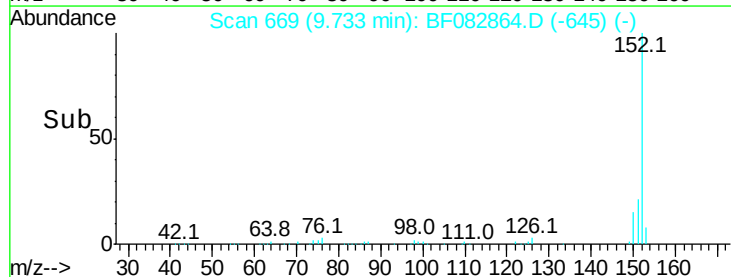
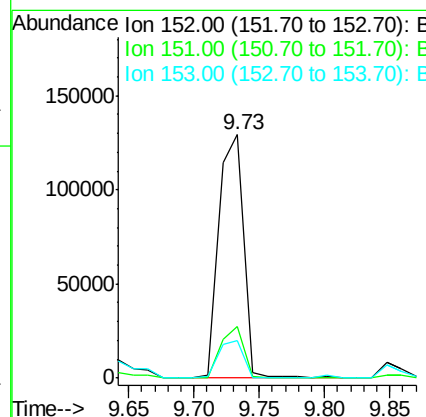
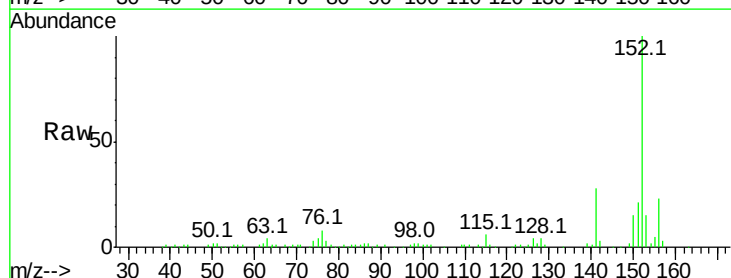
Manual Integrations
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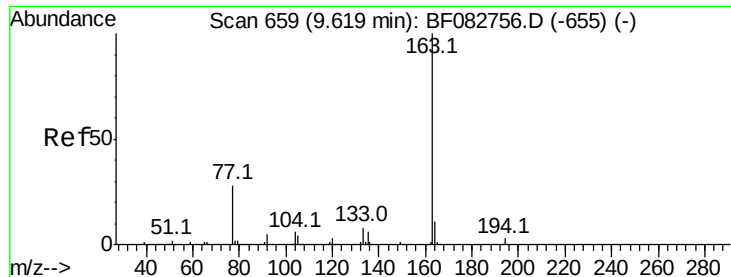
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#48
Acenaphthylene
Concen: 4.40 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.3	25.9
153	15.2	11.3	16.9





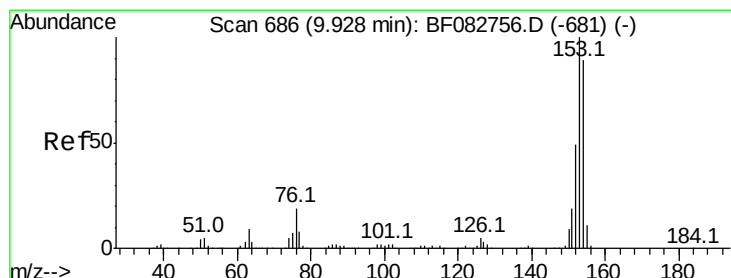
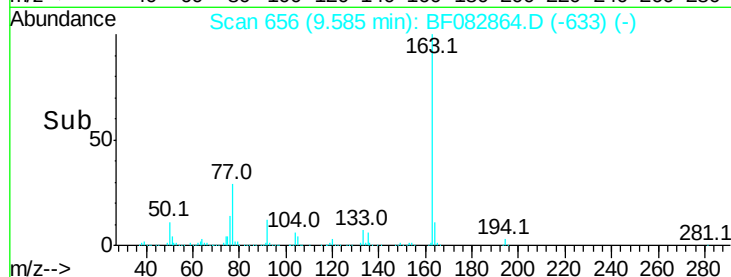
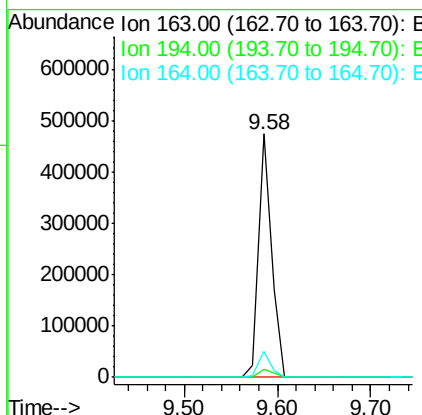
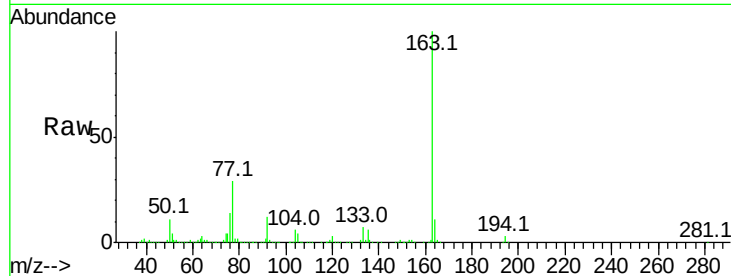
#49
Dimethylphthalate
Concen: 15.04 ng
RT: 9.58 min Scan# 656
Delta R.T. -0.03 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	460947		
194	3.3		2.6	4.0
164	10.9		8.7	13.1

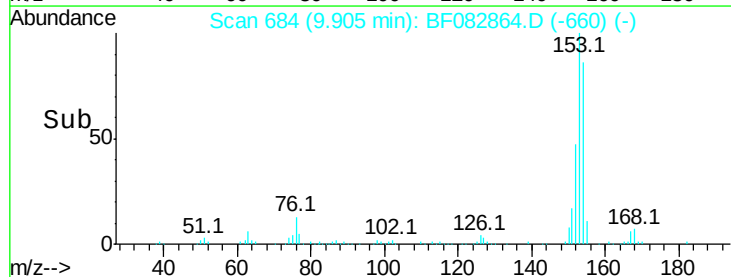
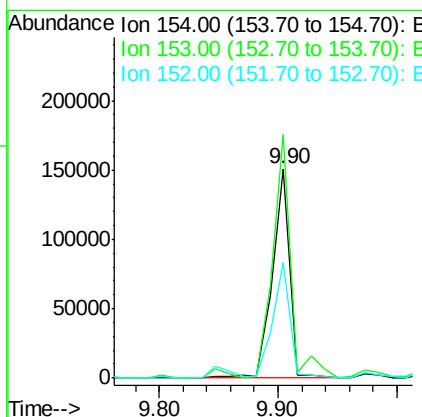
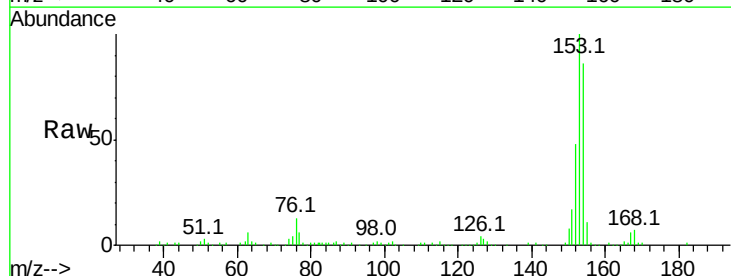
Manual Integrations
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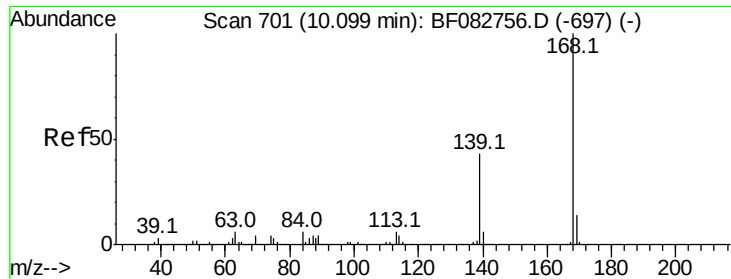
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#51
Acenaphthene
Concen: 6.10 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	151699		
153	116.2		90.1	135.1
152	55.2		44.3	66.5





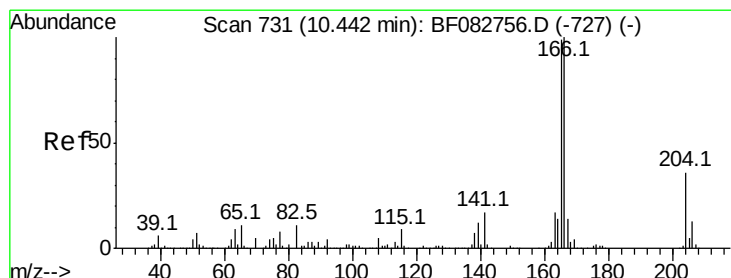
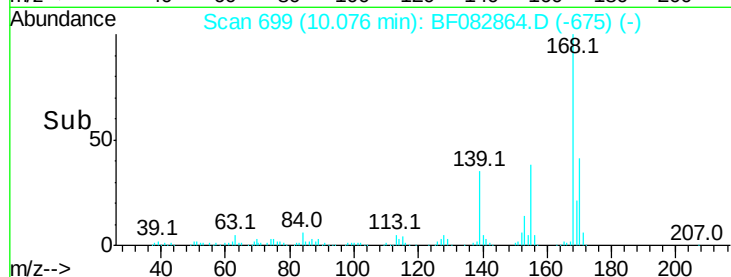
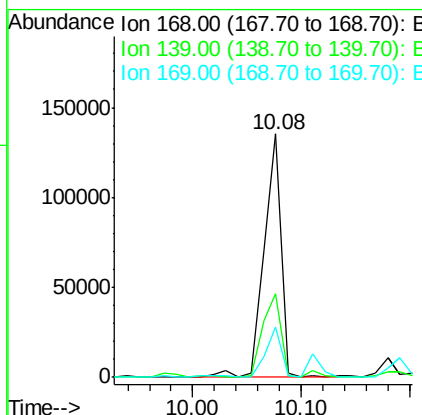
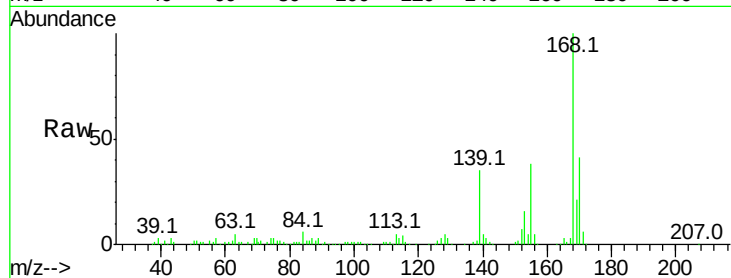
#54
Dibenzofuran
Concen: 4.48 ng
RT: 10.08 min Scan# 699
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion	Ratio	Resp	Lower	Upper
168	100	150138		
139	34.6		37.8	56.6#
169	20.8		11.3	16.9#

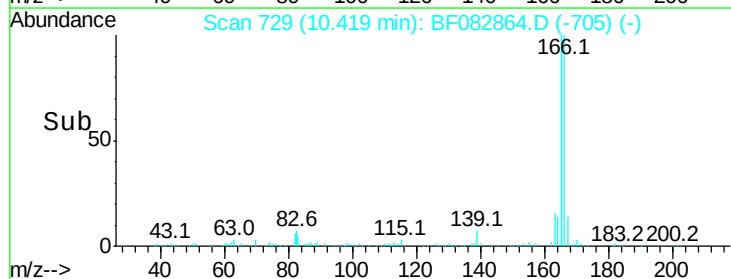
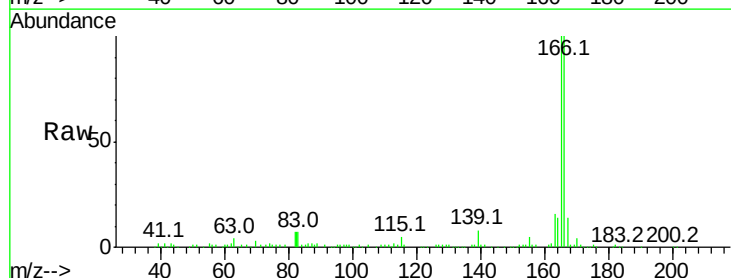
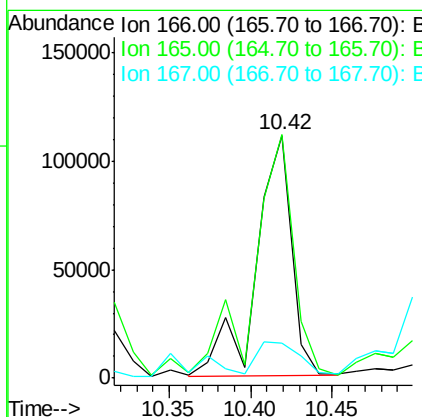
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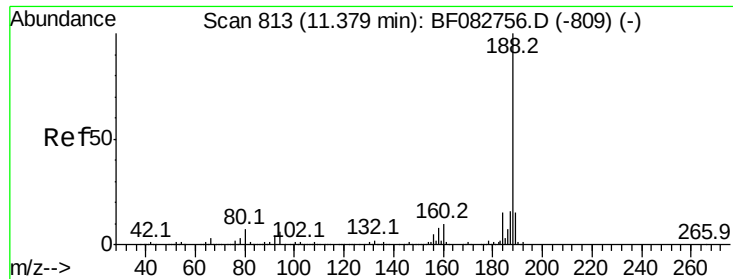
Mmdadoda
11/10/2015 1:02:54 PM



#57
Fluorene
Concen: 6.22 ng
RT: 10.42 min Scan# 729
Delta R.T. -0.02 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	168947		
165	100.4		80.2	120.4
167	14.5		11.2	16.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

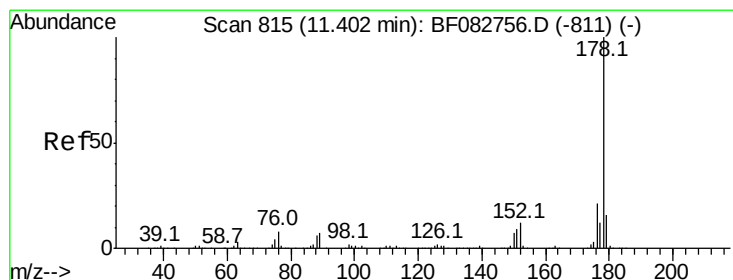
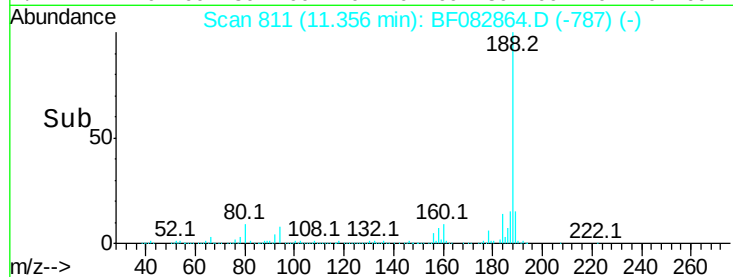
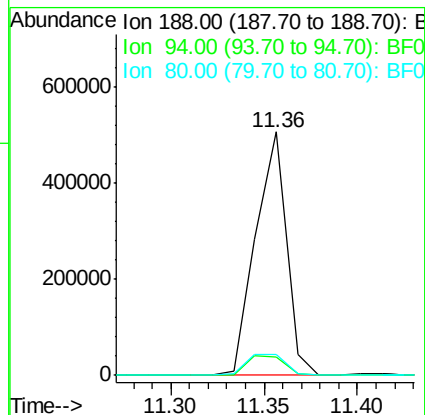
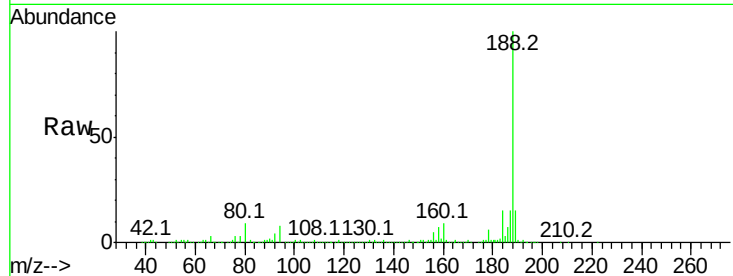
ClientSampleId :

1

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Tot Ion	188	Resp	576119
Ion Ratio	Lower	Upper	
188	100		
94	7.7	6.1	9.1
80	8.8	7.0	10.6



#70

Phenanthrene

Concen: 83.63 ng

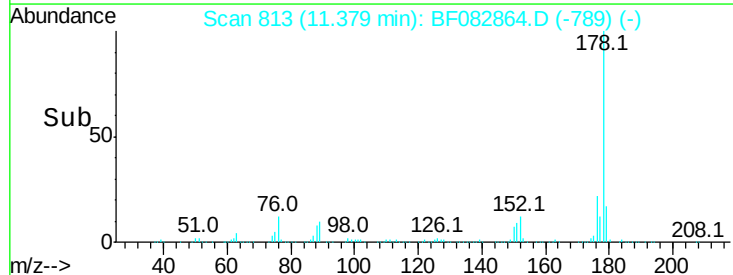
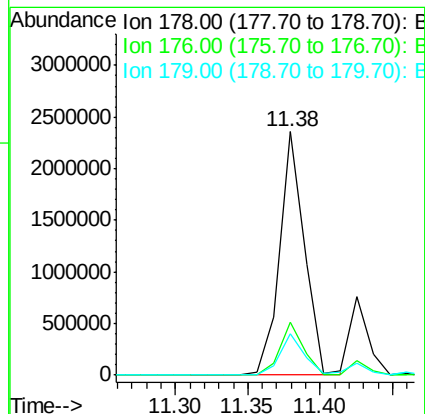
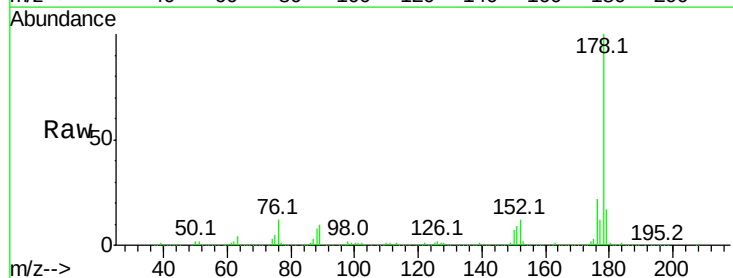
RT: 11.38 min Scan# 813

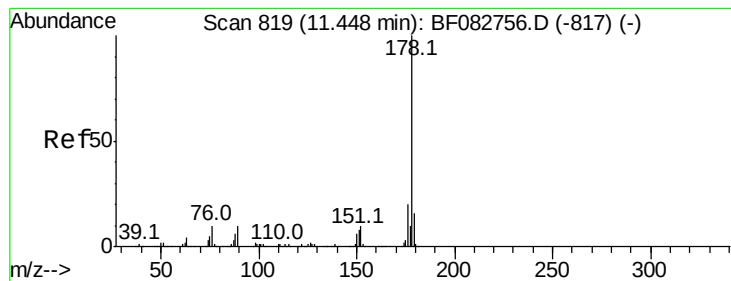
Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion	178	Resp	2797985
Ion Ratio	Lower	Upper	
178	100		
176	21.6	17.0	25.4
179	17.2	13.4	20.0





#71

Anthracene

Concen: 19.02 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

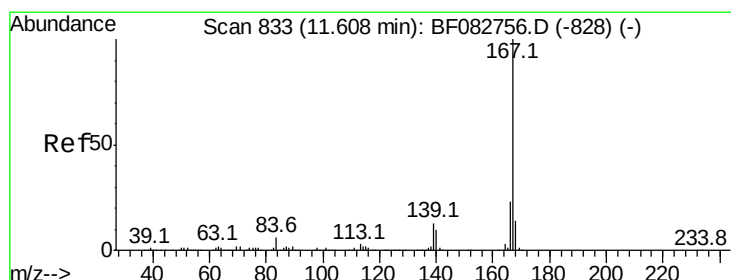
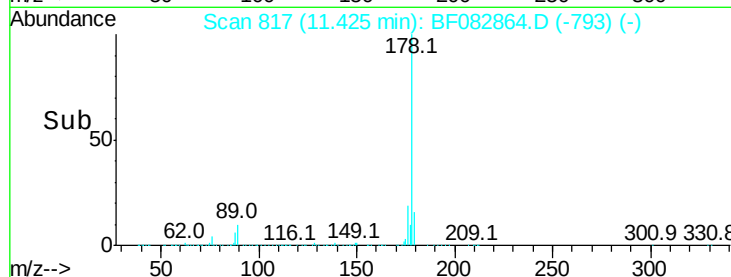
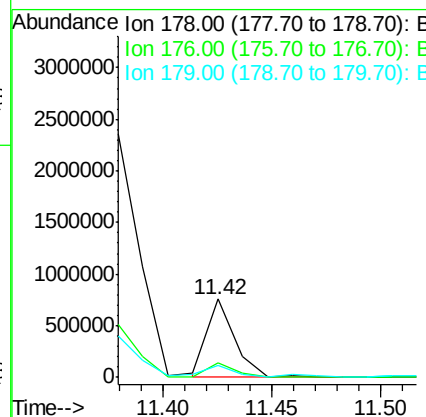
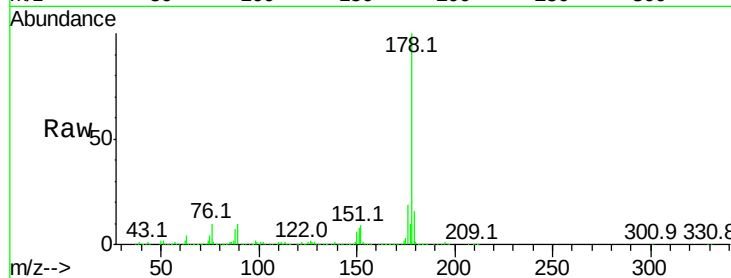
ClientSampleId :

1

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11/10/2015 1:02:54 PM

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	16.5	24.7
179	16.0	13.2	19.8



#72

Carbazole

Concen: 5.63 ng

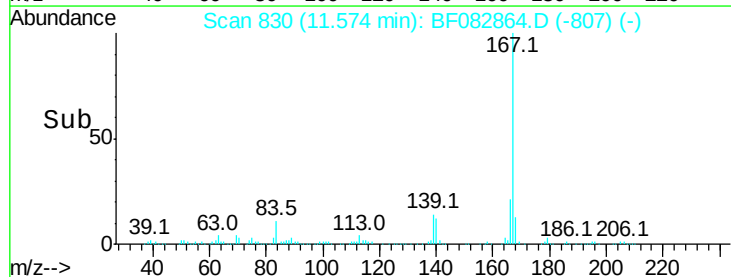
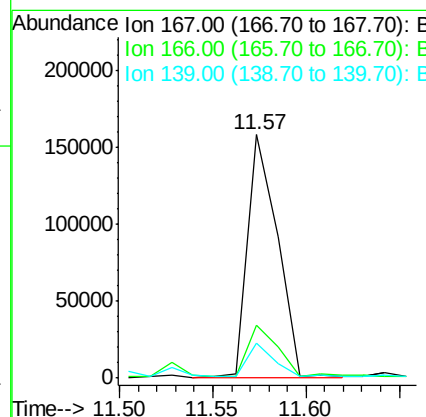
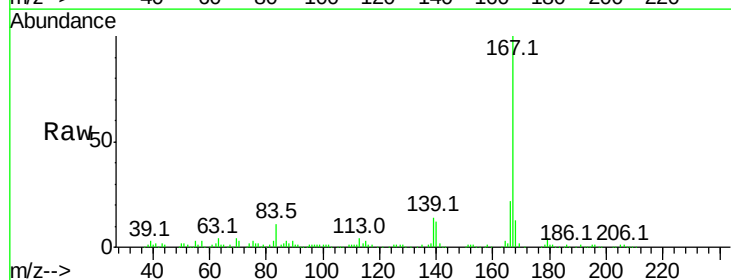
RT: 11.57 min Scan# 830

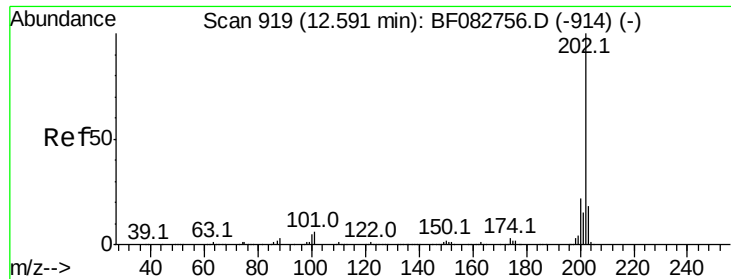
Delta R.T. -0.03 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	18.7	28.1
139	14.2	11.8	17.6





#74

Fluoranthene

Concen: 71.88 ng

RT: 12.57 min Scan# 917

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

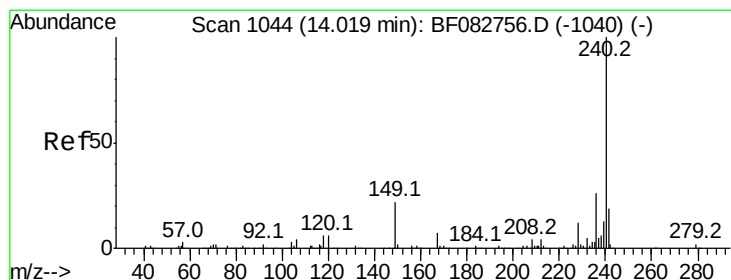
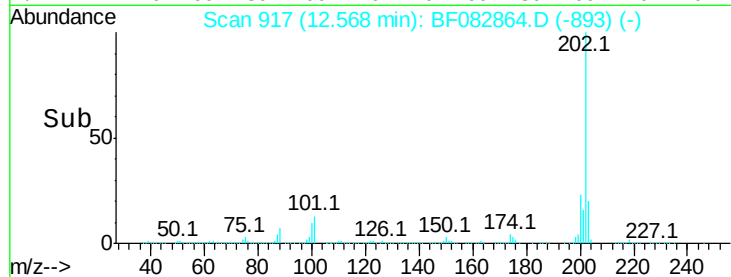
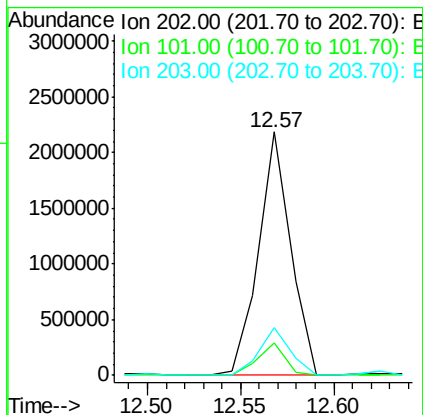
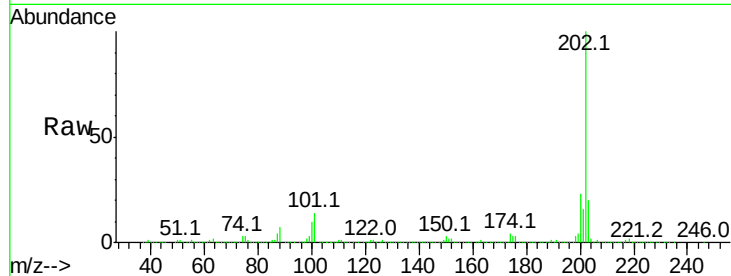
ClientSampleId :

1

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11/10/2015 1:02:54 PM

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	30.5
203	19.7	0.0	38.5



#75

Chrysene-d12

Concen: 20.00 ng

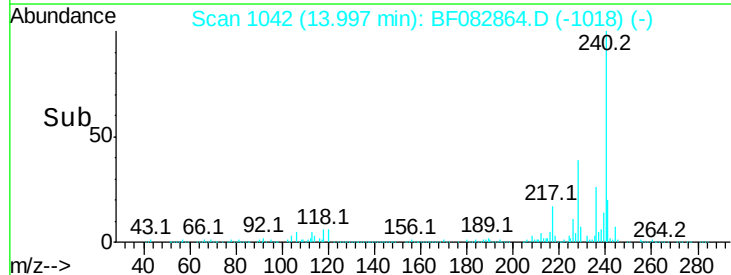
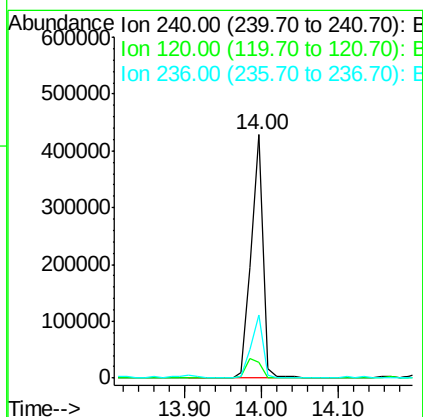
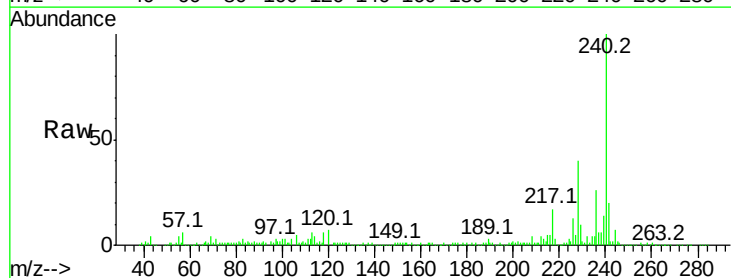
RT: 14.00 min Scan# 1042

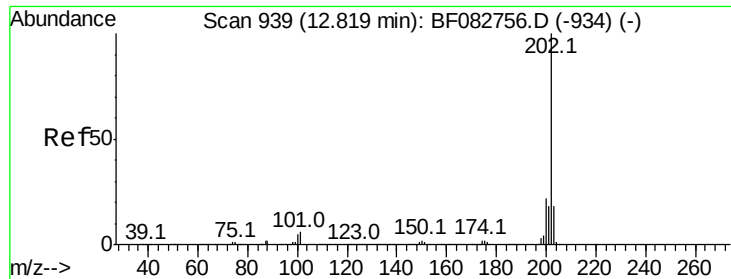
Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.5	10.9	16.3#
236	25.9	21.6	32.4





#77

Pvrene

Concen: 76.76 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

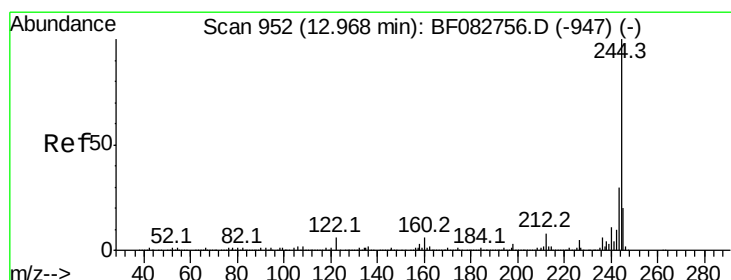
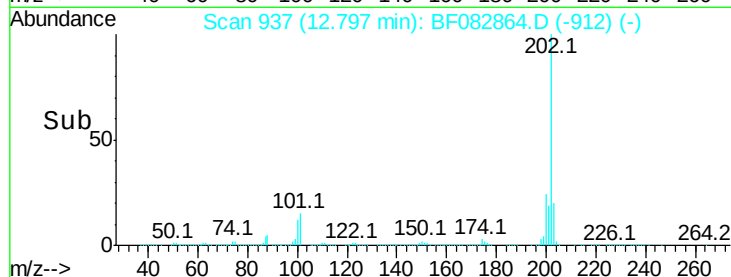
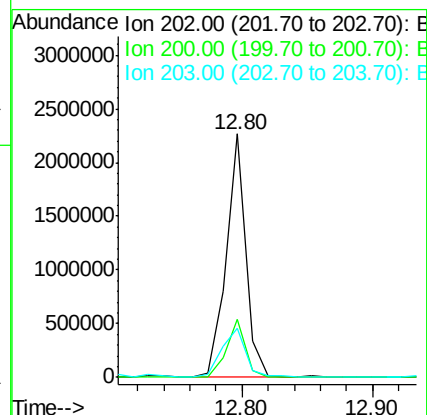
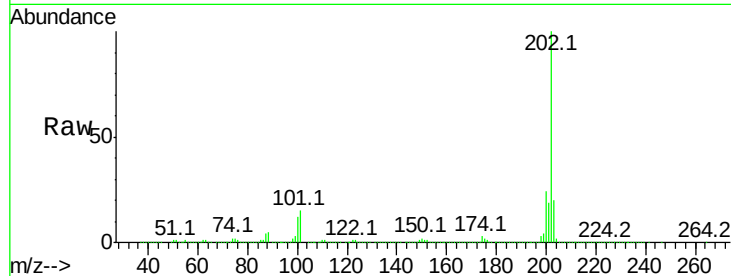
ClientSampleId :

1

Tot Ion:	202	Resp:	2379317
Ion	Ratio	Lower	Upper
202	100		
200	23.6	18.7	28.1
203	20.1	14.8	22.2

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#78

Terphenyl-d14

Concen: 75.58 ng

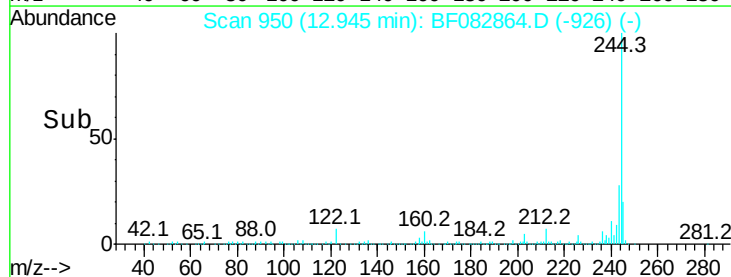
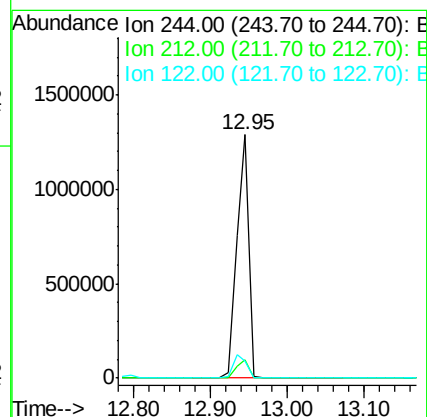
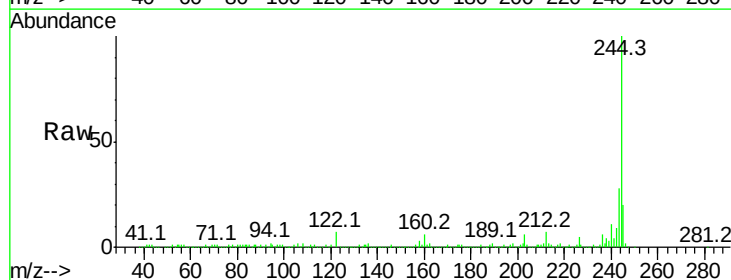
RT: 12.95 min Scan# 950

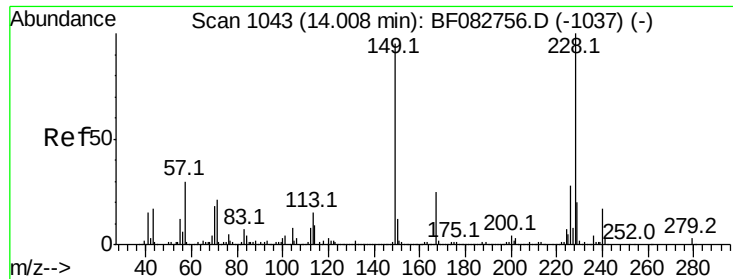
Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion:	244	Resp:	1438356
Ion	Ratio	Lower	Upper
244	100		
212	7.3	7.6	11.4#
122	7.2	11.3	16.9#





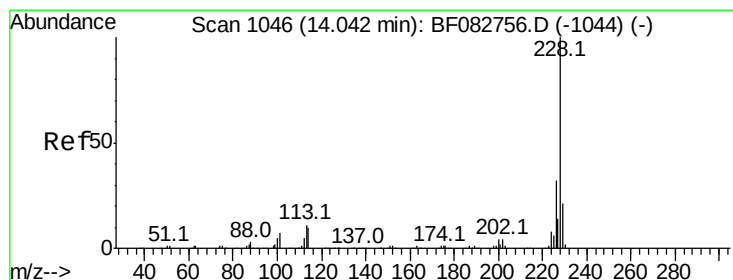
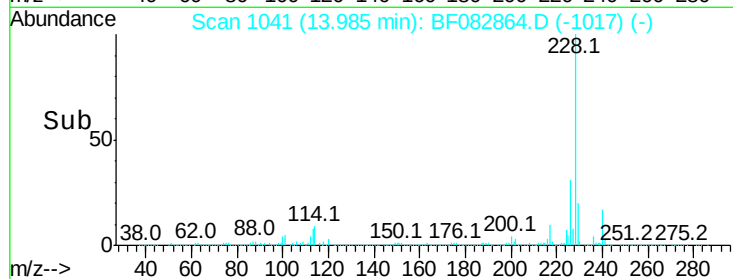
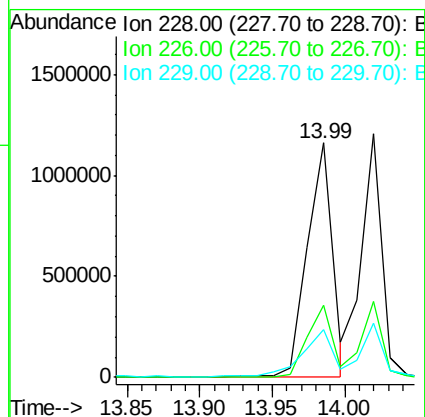
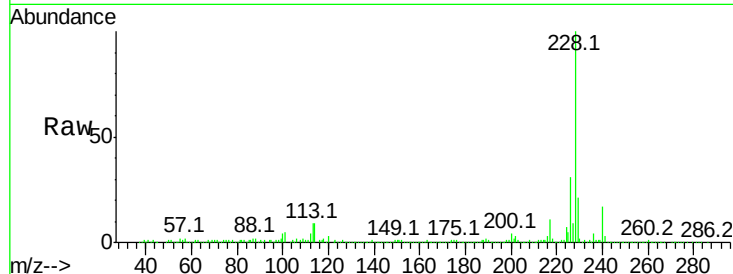
#80
 Benzo(a)anthracene
 Concen: 49.39 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. -0.02 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Instrument :
 BNA_F
 ClientSampleId :
 1

Tot Ion:	228	Resp:	1393939
Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.4	35.2
229	20.6	16.3	24.5

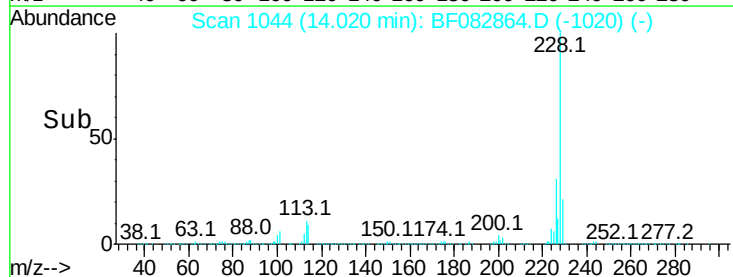
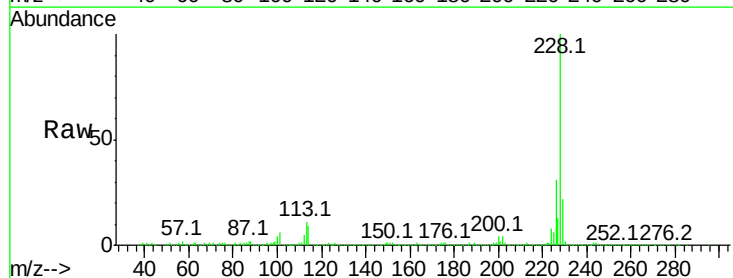
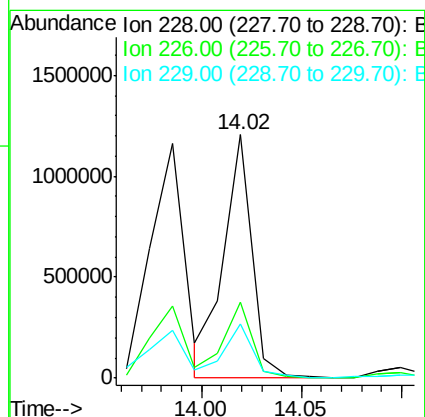
Manual Integrations
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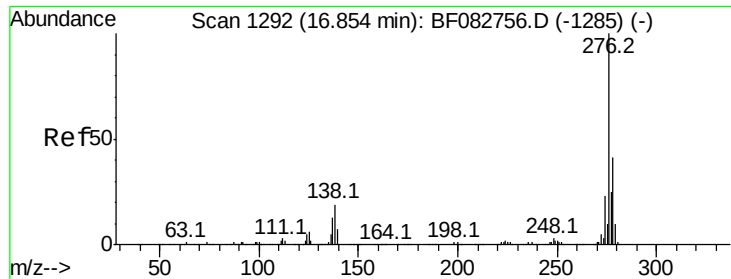
Mmdadoda
 11/10/2015 1:02:54 PM



#82
 Chrysene
 Concen: 45.21 ng m
 RT: 14.02 min Scan# 1044
 Delta R.T. -0.02 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Tgt Ion:	228	Resp:	1168796
Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.5	38.3
229	22.4	16.3	24.5





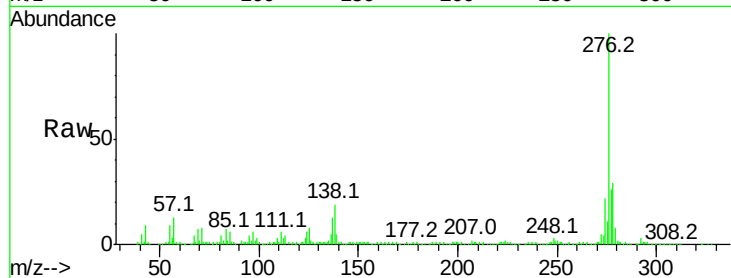
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.07 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.05 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Instrument :
BNA_F
ClientSampleId :
1

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.5	15.3	22.9
277	28.1	20.2	30.4

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11/10/2015 1:02:54 PM

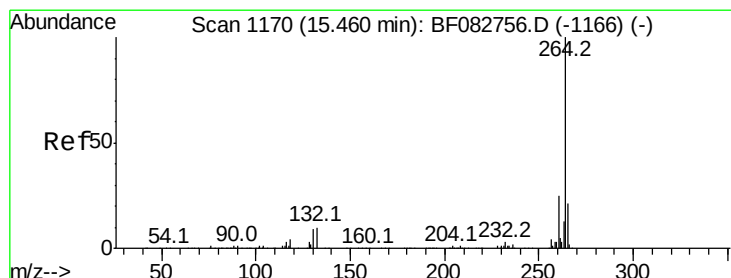
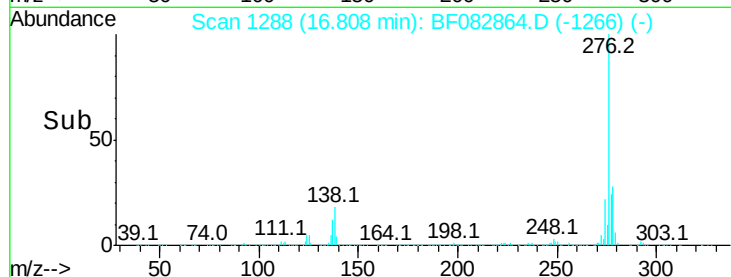
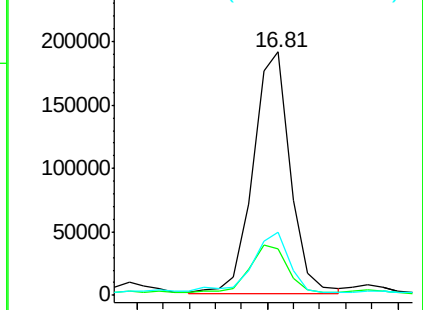


Abundance

Ion 276.00 (275.70 to 276.70): E

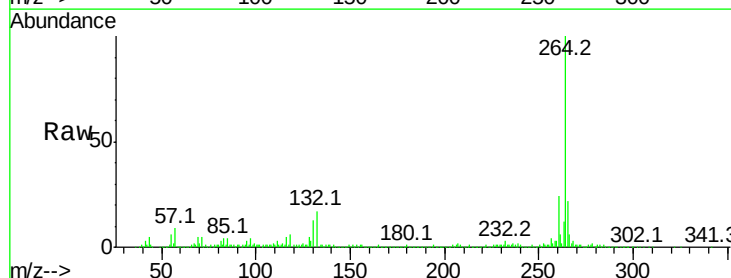
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.03 min
Lab File: BF082864.D
Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.8	29.6
265	22.4	17.4	26.0

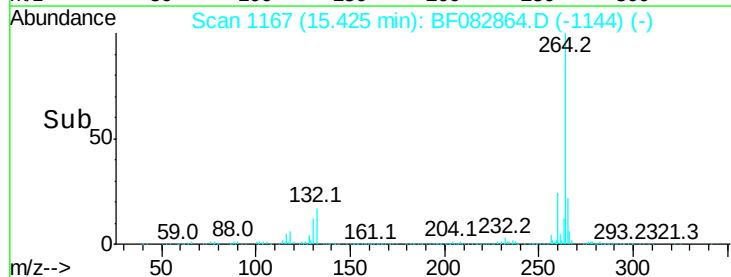
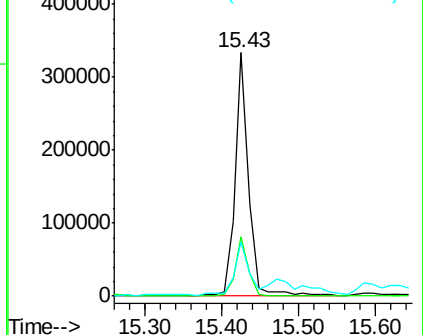


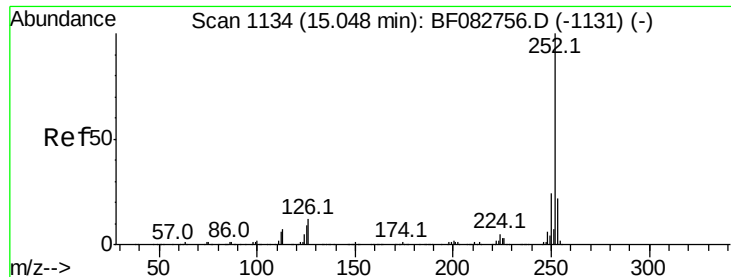
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 41.05 ng m

RT: 15.03 min Scan# 1132

Delta R.T. -0.02 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

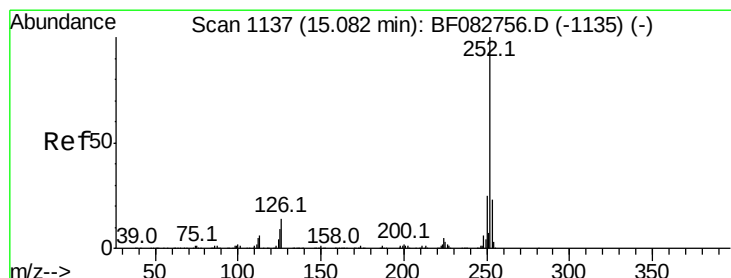
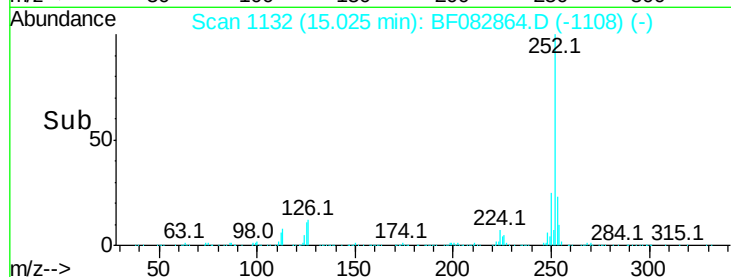
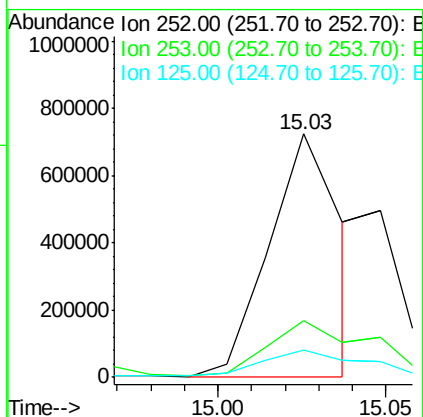
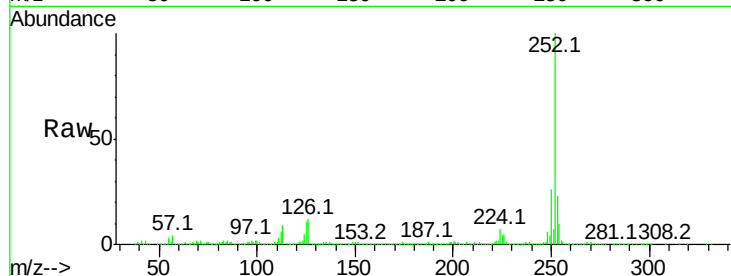
ClientSampleId :

1

Tot Ion:	252	Resp:	1084955
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.8	26.8
125	11.3	5.4	8.2#

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11/10/2015 1:02:54 PM



#88

Benzo(k)fluoranthene

Concen: 17.81 ng m

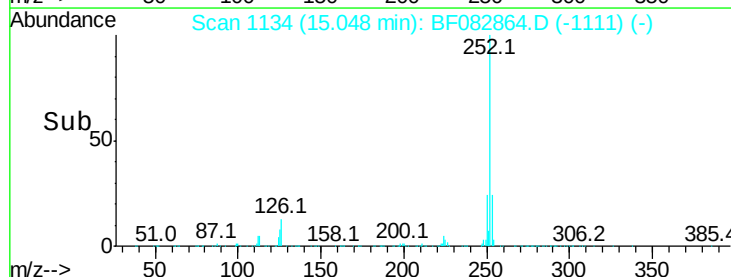
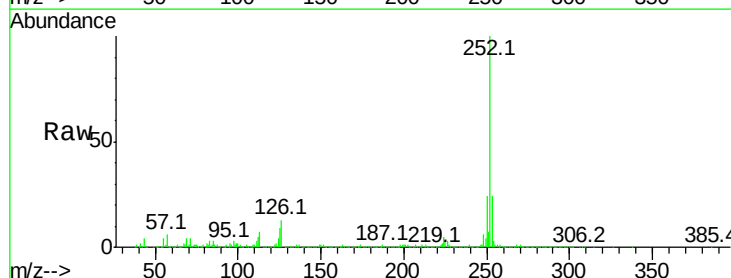
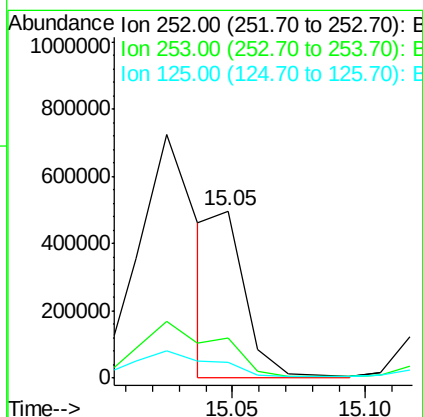
RT: 15.05 min Scan# 1134

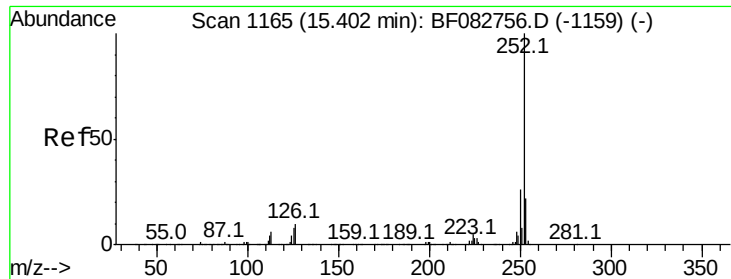
Delta R.T. -0.03 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion:	252	Resp:	417456
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.9	26.9
125	9.4	3.5	5.3#





#89

Benzo(a)pyrene

Concen: 32.27 ng

RT: 15.37 min Scan# 1162

Delta R.T. -0.03 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Instrument :

BNA_F

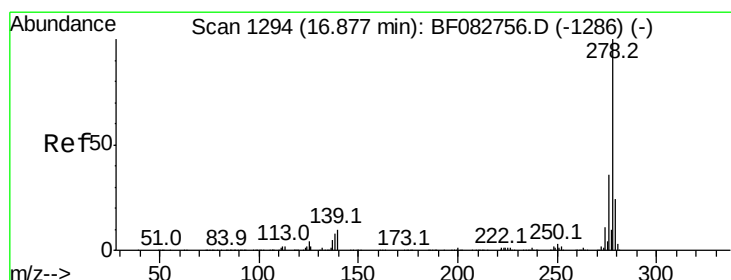
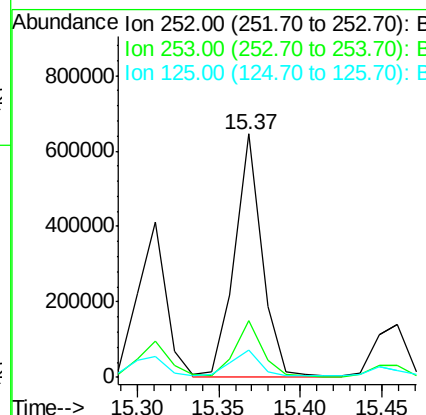
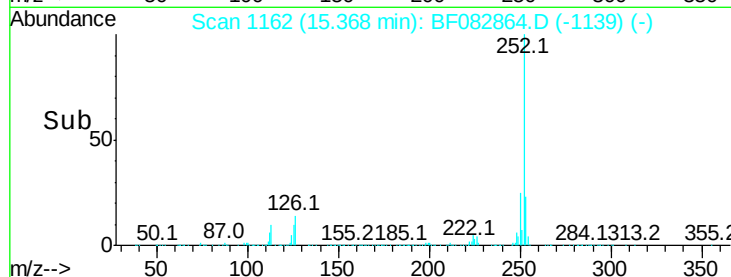
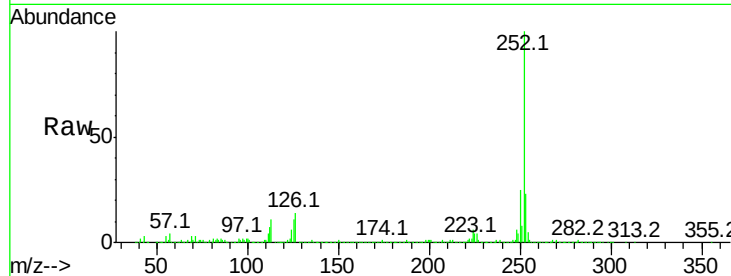
ClientSampleId :

1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	11.4	7.1	10.7#

Manual Integrations
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11/10/2015 1:02:54 PM



#90

Dibenzo(a,h)anthracene

Concen: 5.41 ng

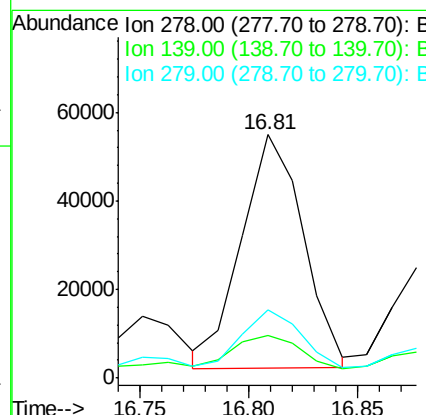
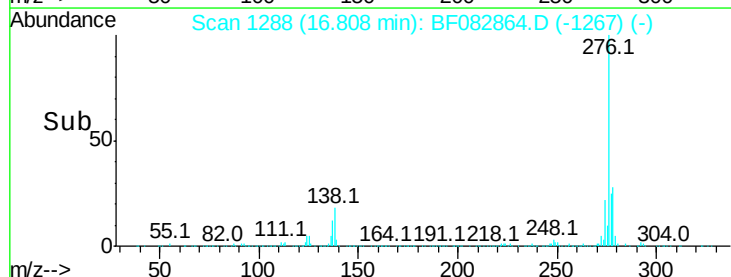
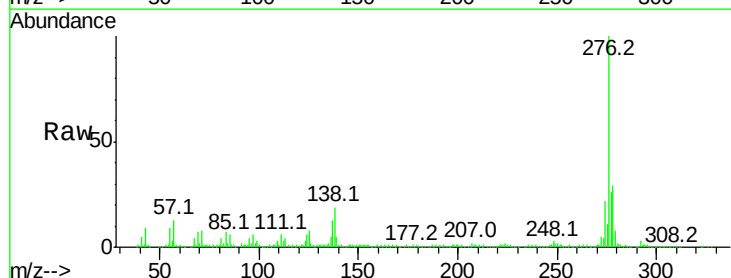
RT: 16.81 min Scan# 1288

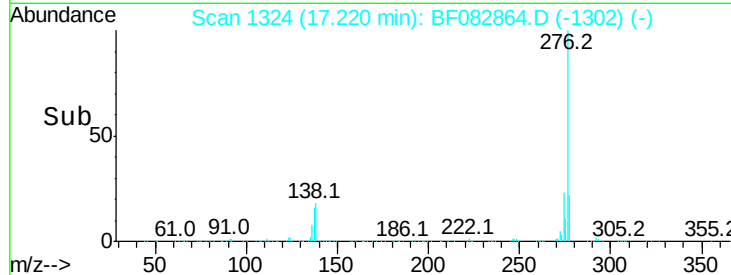
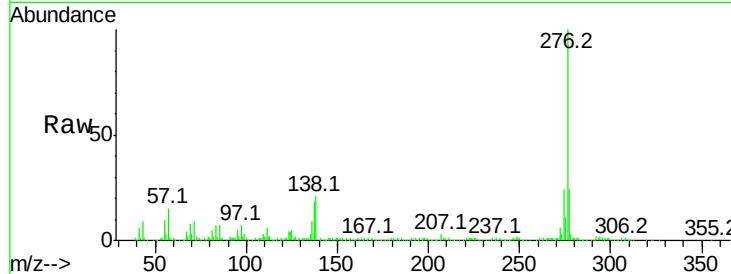
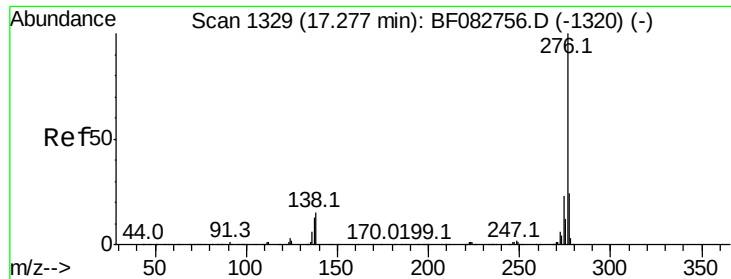
Delta R.T. -0.06 min

Lab File: BF082864.D

Acq: 10 Nov 2015 10:11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	9.9	14.9#
279	28.1	19.6	29.4





#91
 Benzo(a,h,i)perylene
 Concen: 18.51 ng
 RT: 17.22 min Scan# 1324
 Delta R.T. -0.05 min
 Lab File: BF082864.D
 Acq: 10 Nov 2015 10:11

Tot Ion:	276	Resp:	343828
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.2	28.8
138	21.3	13.1	19.7

Instrument :
 BNA_F
 ClientSampleId :
 1

Manual Integrations
 APPROVED

Mmdadoda
 11/10/2015 1:02:54 PM

