

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053115\
 Data File : BF079644.D
 Acq On : 31 May 2015 20:33
 Operator : TP/IZ
 Sample : G2408-12
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

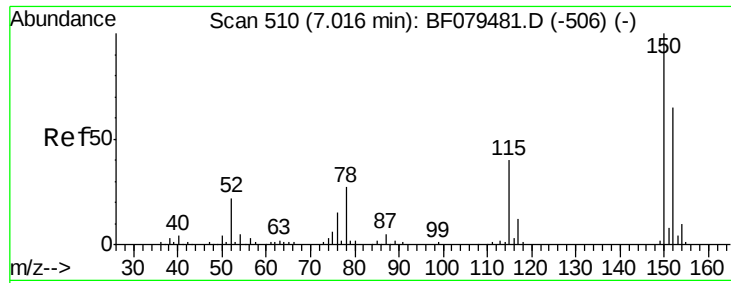
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Quant Time: Jun 01 05:20:13 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 01 04:06:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	71022	20.00	ng	0.00
21) Naphthalene-d8	8.48	136	290372	20.00	ng	0.00
38) Acenaphthene-d10	10.65	164	140283	20.00	ng	0.00
63) Phenanthrene-d10	12.48	188	270262	20.00	ng	0.00
75) Chrysene-d12	15.76	240	274805	20.00	ng	0.01
86) Perylene-d12	17.46	264	298505	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	456643	111.52	ng	0.01
7) Phenol-d6	6.51	99	611979	117.26	ng	0.01
23) Nitrobenzene-d5	7.61	82	358514	71.37	ng	0.00
41) 2,4,6-Tribromophenol	11.63	330	196207	127.34	ng	0.00
44) 2-Fluorobiphenyl	9.84	172	735221	74.77	ng	0.01
78) Terphenyl-d14	14.48	244	821516	70.16	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.51	128	148345	10.65	ng	97
37) 2-Methylnaphthalene	9.37	142	57633	5.96	ng	97
48) Acenaphthylene	10.48	152	58123	4.05	ng	98
49) Dimethylphthalate	10.34	163	85627	8.28	ng	100
51) Acenaphthene	10.68	154	111885	13.62	ng	99
54) Dibenzofuran	10.90	168	132773	10.96	ng	98
57) Fluorene	11.32	166	122849	12.30	ng	99
70) Phenanthrene	12.51	178	1271881	85.78	ng	97
71) Anthracene	12.57	178	357159	23.73	ng	97
72) Carbazole	12.79	167	154757	10.68	ng	99
74) Fluoranthene	13.99	202	1332616	83.81	ng	97
77) Pyrene	14.26	202	1174082	68.96	ng	98
80) Benzo(a)anthracene	15.75	228	693707	43.88	ng	98
82) Chrysene	15.79	228	490227	32.62	ng	97
83) Bis(2-ethylhexyl)phthalate	15.82	149	63396	5.78	ng	99
85) Indeno(1,2,3-cd)pyrene	18.73	276	288914	14.95	ng	94
87) Benzo(b)fluoranthene	17.03	252	622496m	36.56	ng	
88) Benzo(k)fluoranthene	17.04	252	265371m	17.43	ng	
89) Benzo(a)pyrene	17.39	252	504772	33.31	ng	# 96
90) Dibenz(a,h)anthracene	18.74	278	74914m	3.39	ng	
91) Benzo(g,h,i)perylene	19.11	276	260221	15.58	ng	96

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



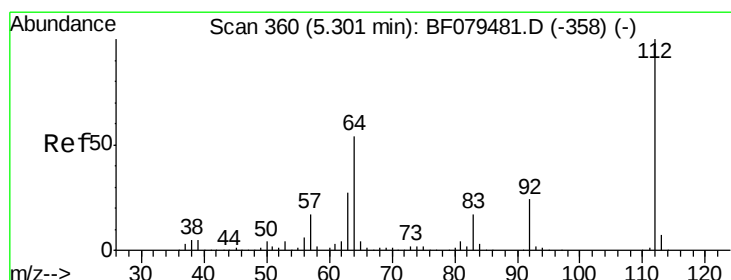
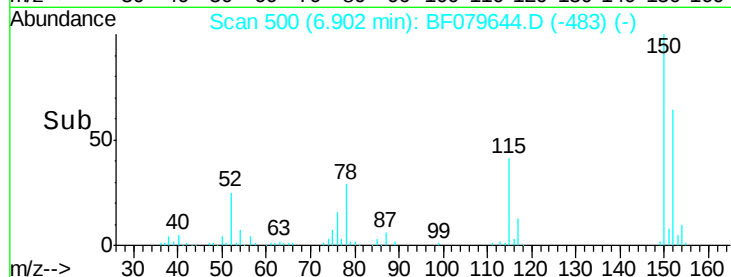
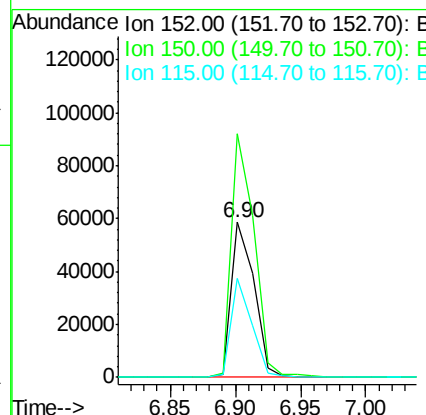
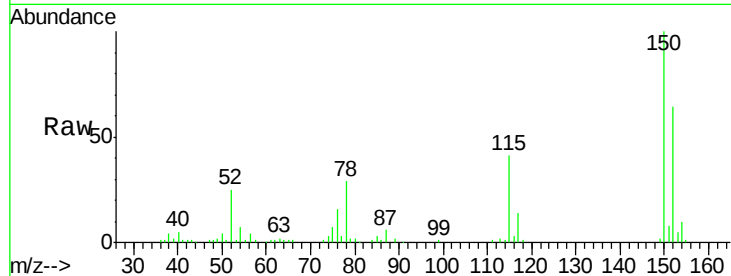
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.90 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.0	186.0
115	63.9	49.6	74.4

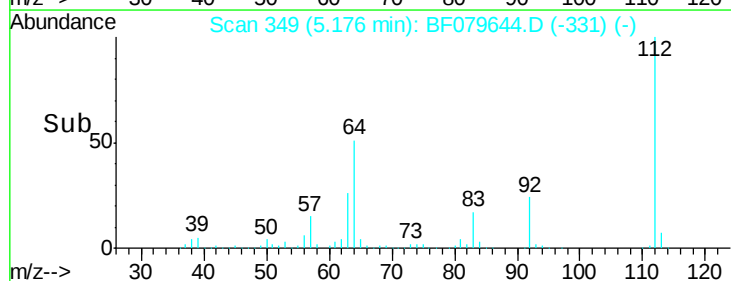
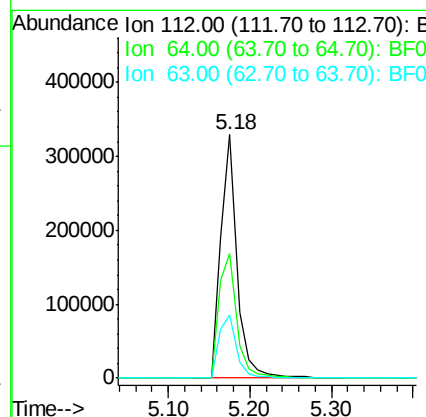
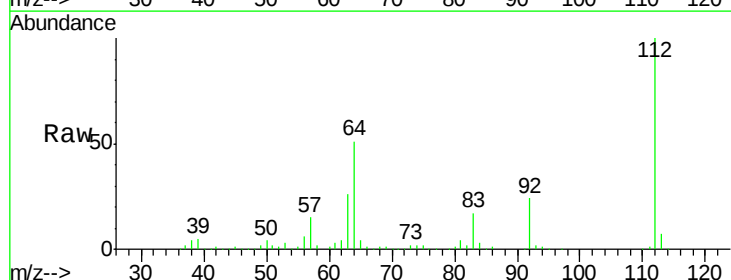
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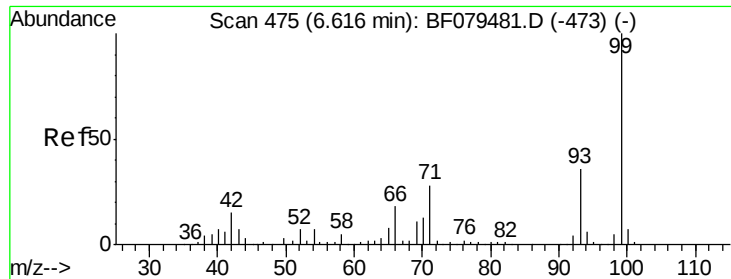
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#5
 2-Fluorophenol
 Concen: 111.52 ng
 RT: 5.18 min Scan# 349
 Delta R.T. 0.01 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.3	43.5	65.3
63	26.0	21.8	32.8





#7

Phenol-d6

Concen: 117.26 ng

RT: 6.51 min Scan# 466

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA_F

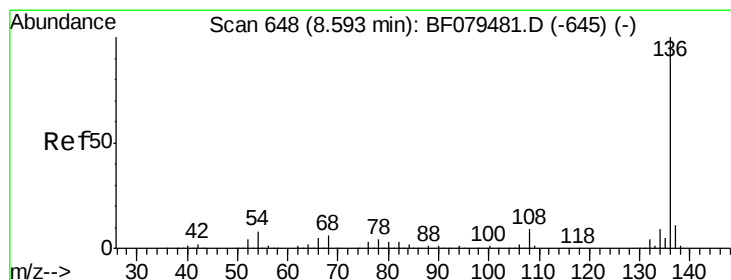
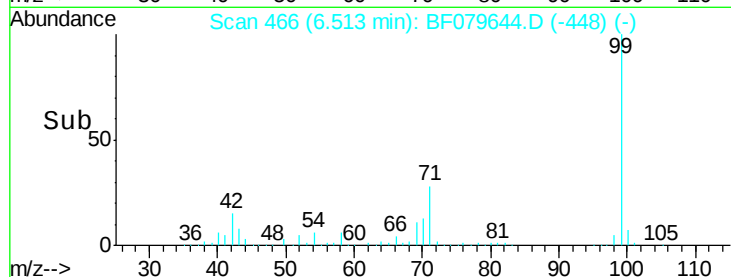
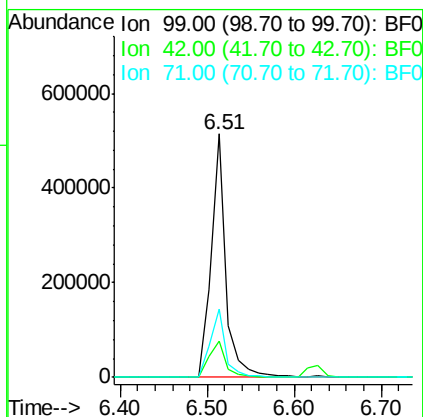
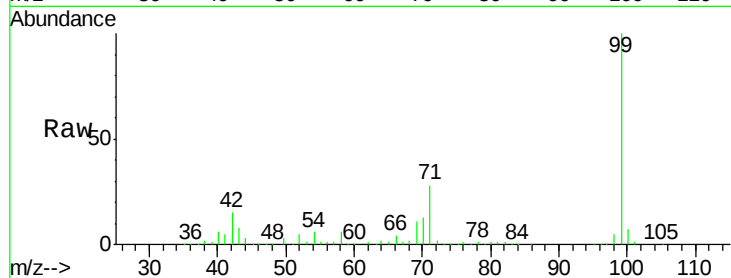
ClientSampleId :

SB-21S

Tgt Ion:	99	Resp:	611979
Ion Ratio	Lower	Upper	
99	100		
42	15.0	11.9	17.9
71	28.3	22.1	33.1

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#21

Naphthalene-d8

Concen: 20.00 ng

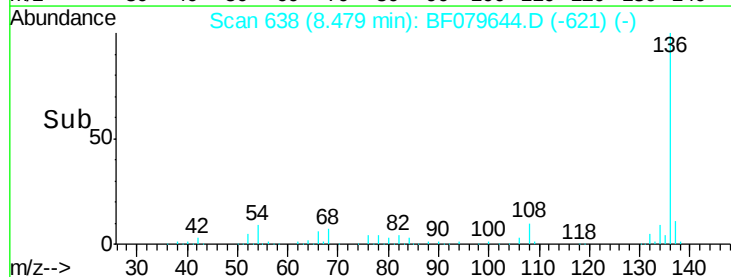
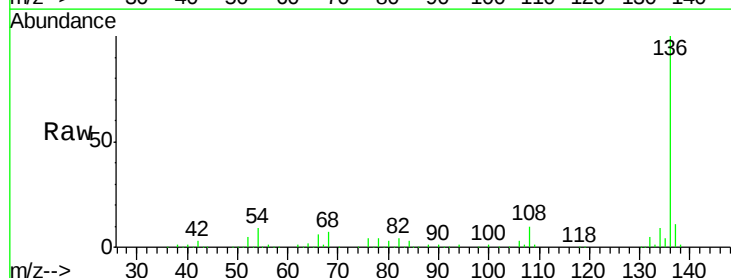
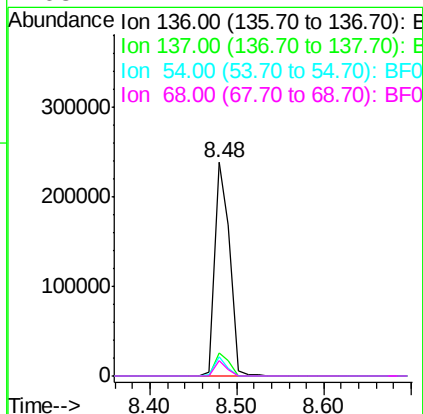
RT: 8.48 min Scan# 638

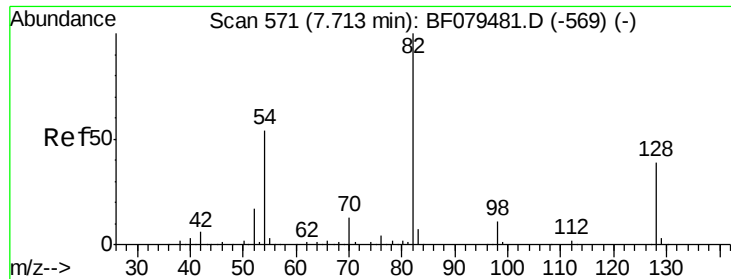
Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Tgt Ion:	136	Resp:	290372
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	9.0	6.6	9.8
68	7.1	4.7	7.1#





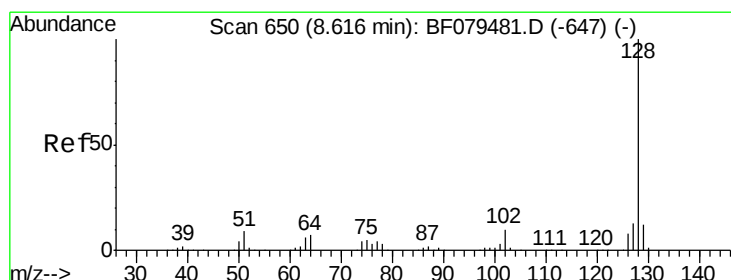
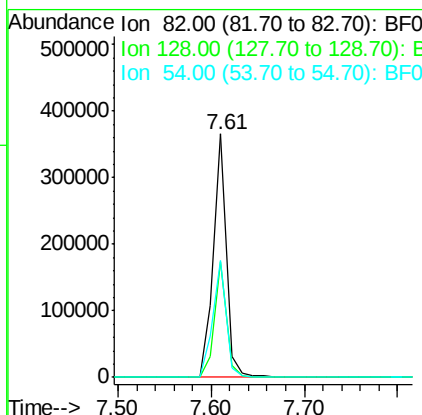
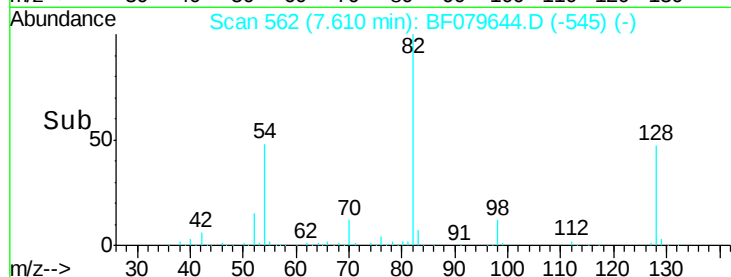
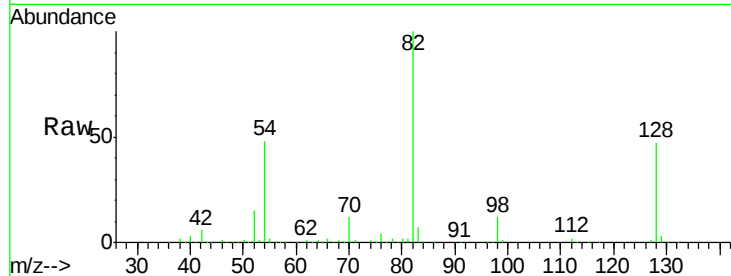
#23
 Nitrobenzene-d5
 Concen: 71.37 ng
 RT: 7.61 min Scan# 562
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.4	30.8	46.2#
54	48.0	42.8	64.2

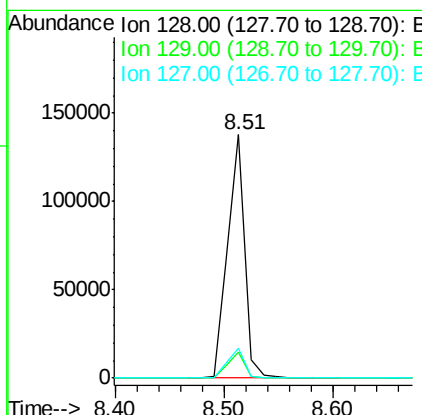
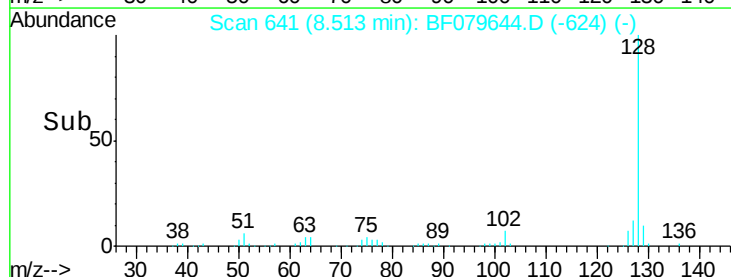
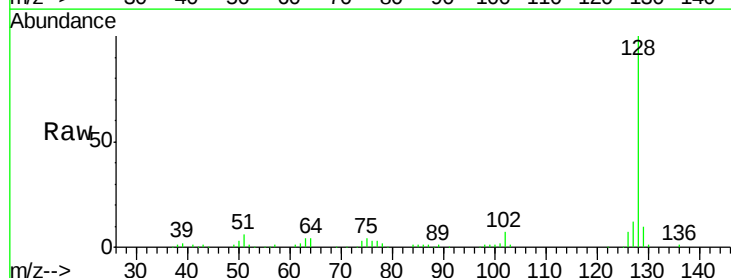
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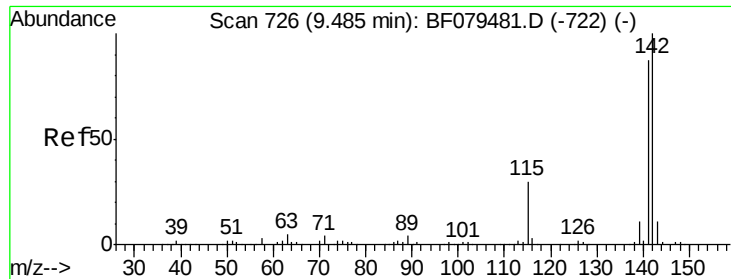
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#31
 Naphthalene
 Concen: 10.65 ng
 RT: 8.51 min Scan# 641
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.3	13.9
127	12.1	10.6	15.8





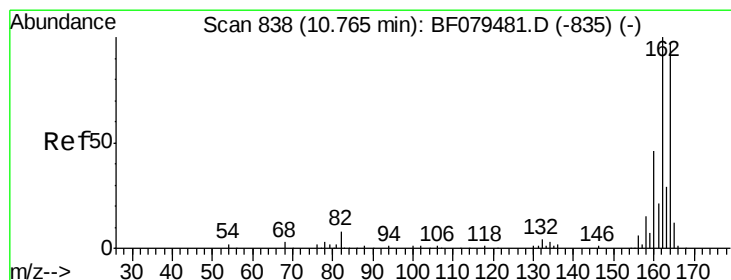
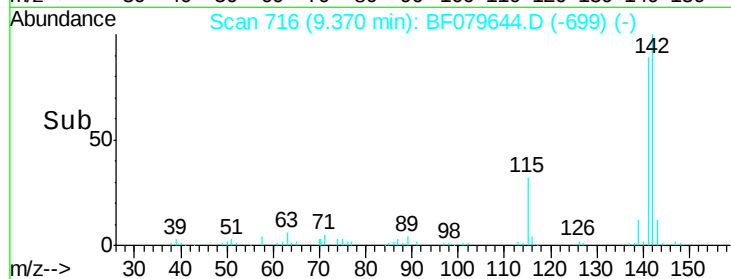
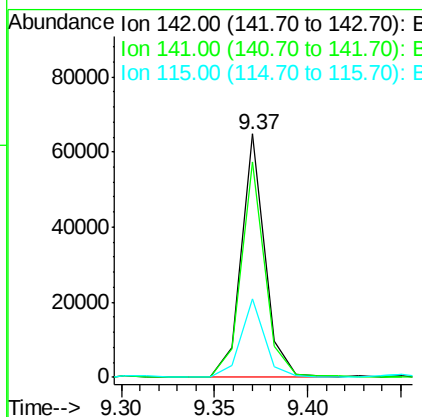
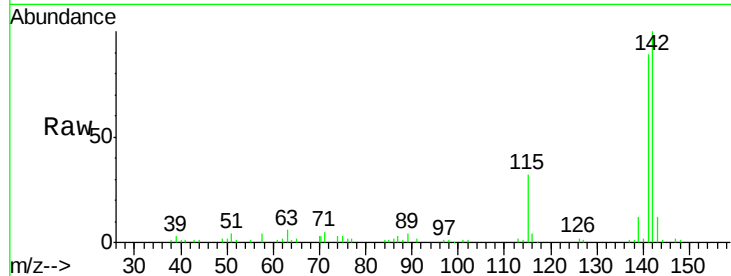
#37
 2-Methylnaphthalene
 Concen: 5.96 ng
 RT: 9.37 min Scan# 716
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.5	69.5	104.3
115	32.5	23.8	35.6

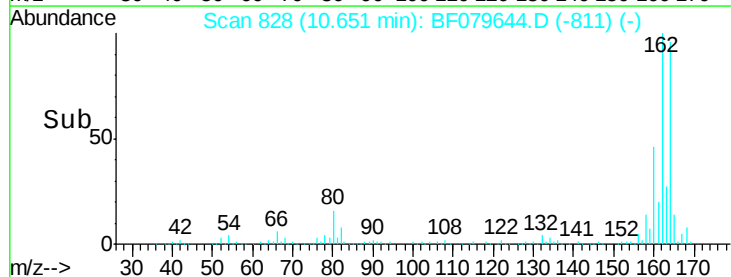
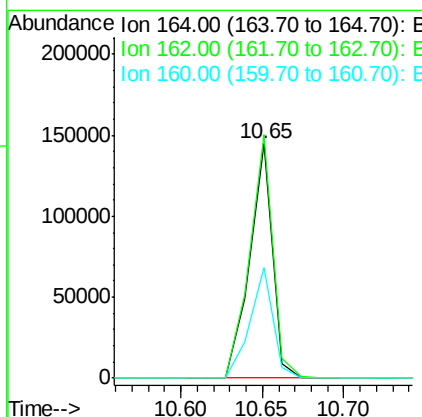
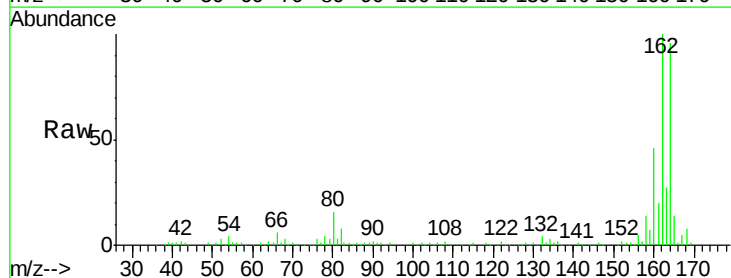
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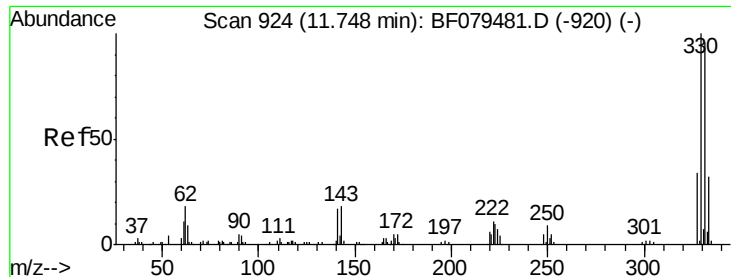
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.65 min Scan# 828
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	82.6	124.0
160	47.3	37.7	56.5





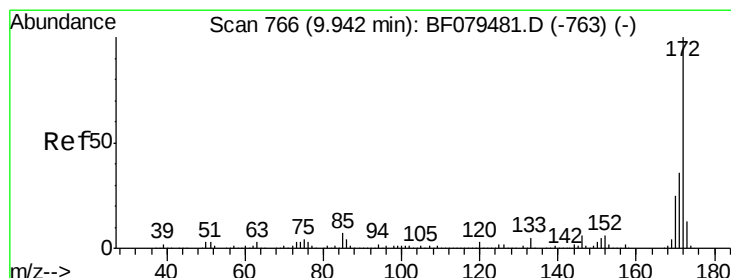
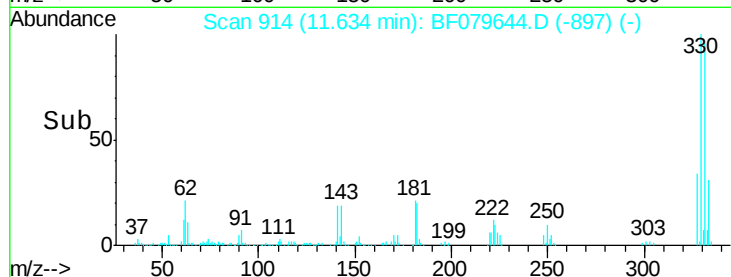
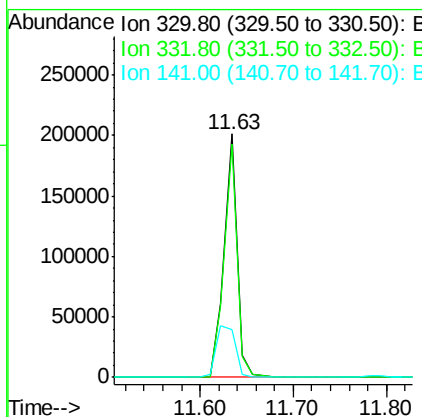
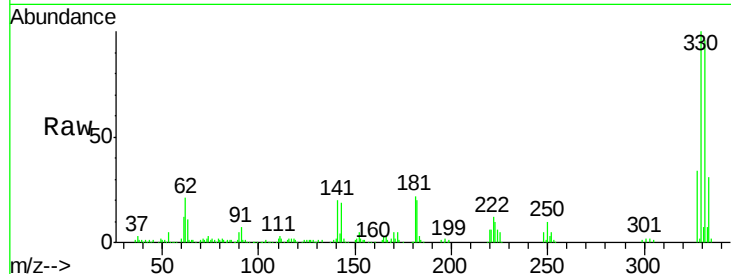
#41
 2,4,6-Tribromophenol
 Concen: 127.34 ng
 RT: 11.63 min Scan# 914
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampled :
 SB-21S

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	196207		
332	95.8	0.0	0.0	0.0
141	32.5	0.0	0.0	0.0

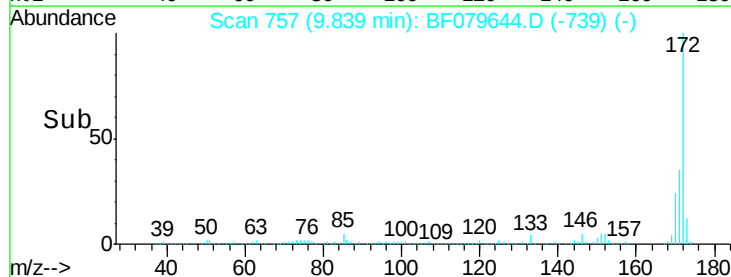
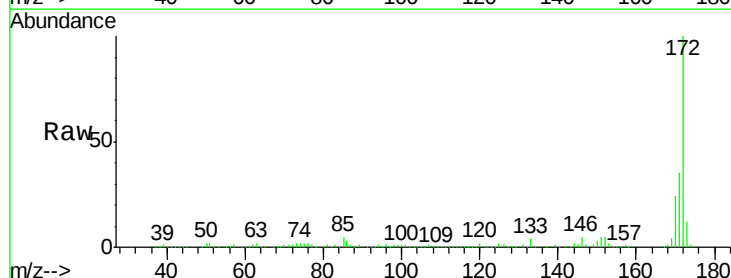
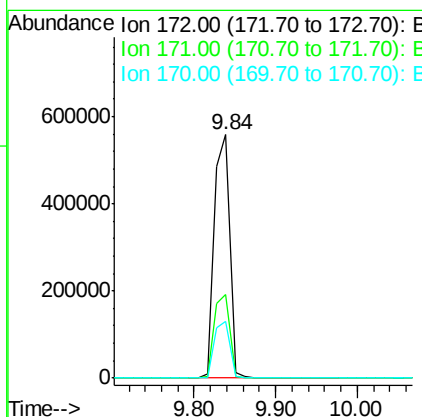
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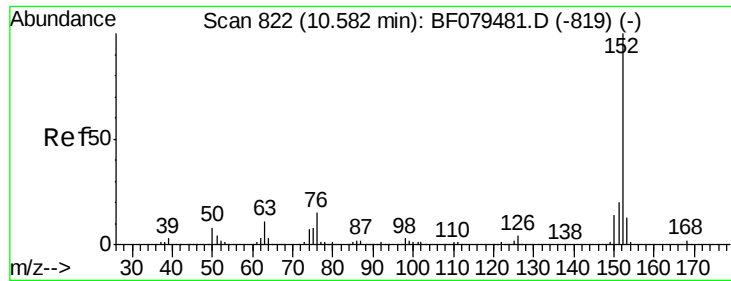
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#44
 2-Fluorobiphenyl
 Concen: 74.77 ng
 RT: 9.84 min Scan# 757
 Delta R.T. 0.01 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	735221		
171	34.6	28.5	42.7	
170	23.5	19.7	29.5	





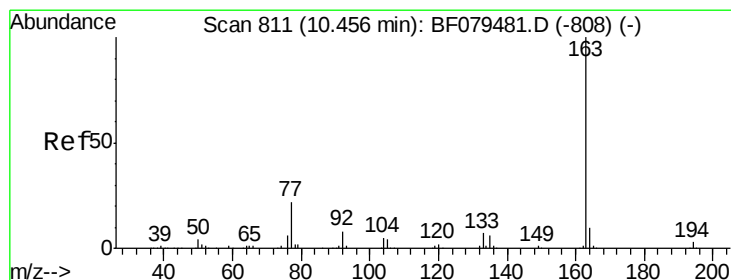
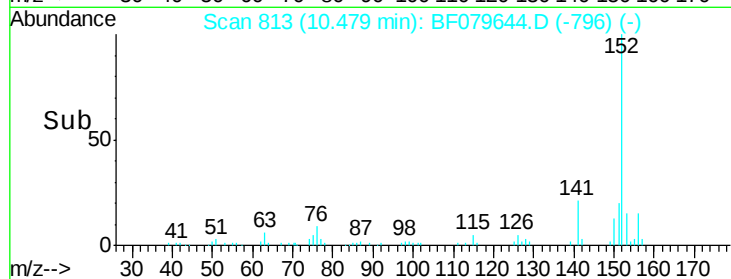
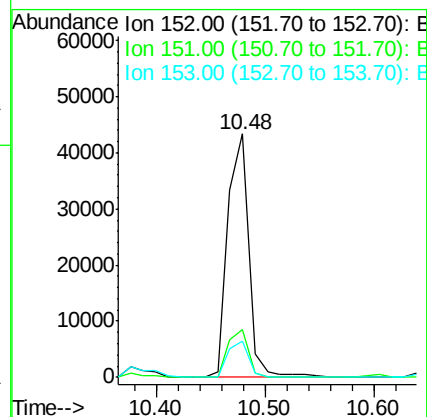
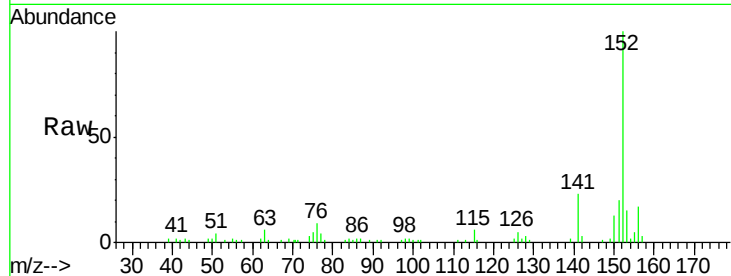
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Acenaphthylene
Concen: 4.05 ng
RT: 10.48 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Instrument :
BNA_F
ClientSampleId :
SB-21S

Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	19.9	15.8	23.8
153	15.0	10.7	16.1

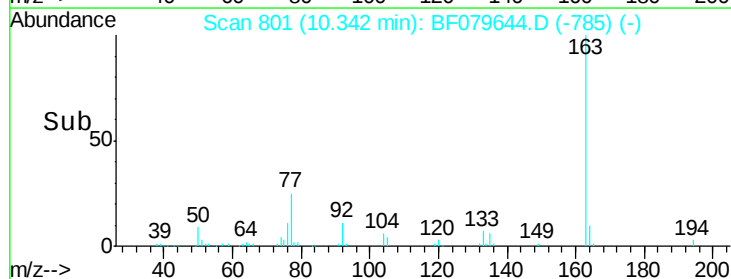
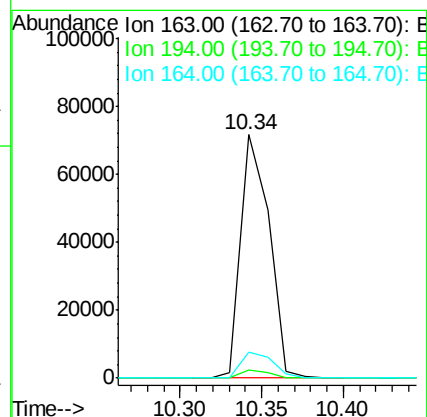
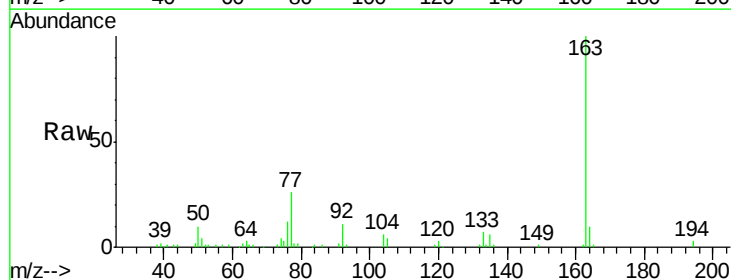
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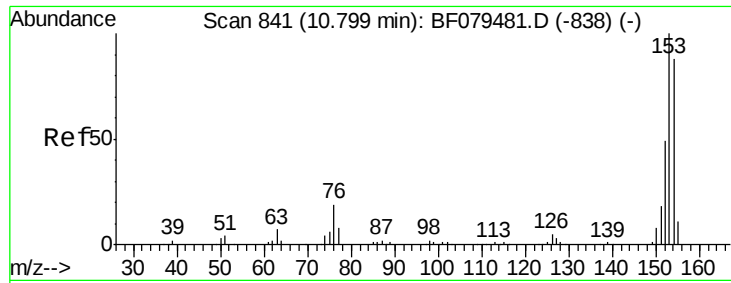
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#49
Dimethylphthalate
Concen: 8.28 ng
RT: 10.34 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.1	2.4	3.6
164	10.5	8.2	12.4





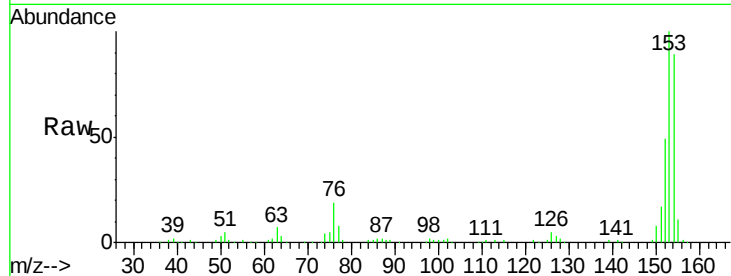
#51
Acenaphthene
Concen: 13.62 ng
RT: 10.68 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Instrument :
BNA_F
ClientSampleId :
SB-21S

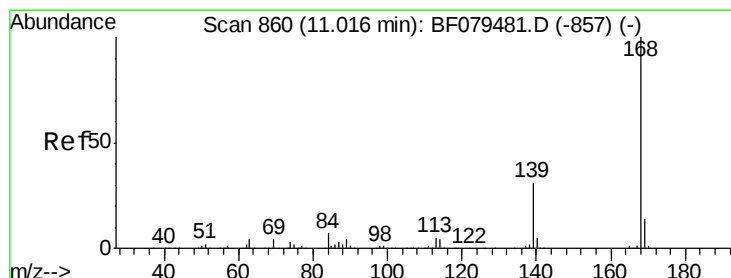
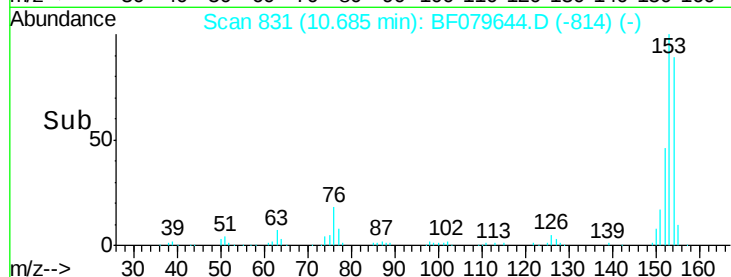
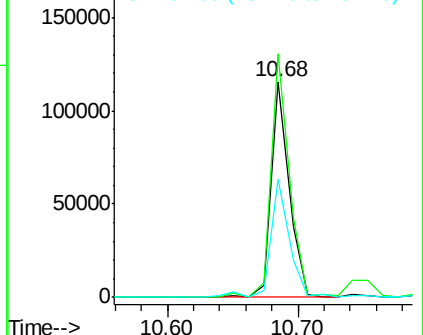
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	111885		
153	112.7	91.1	136.7	
152	54.7	44.6	66.8	

Manual Integrations
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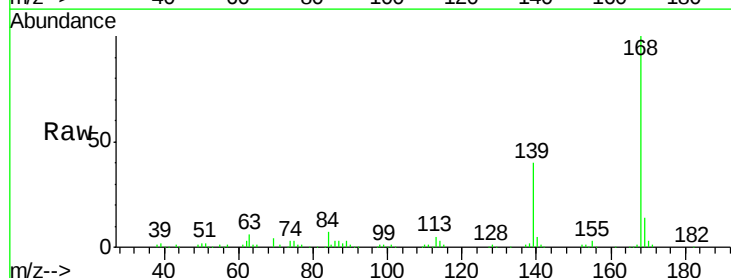


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

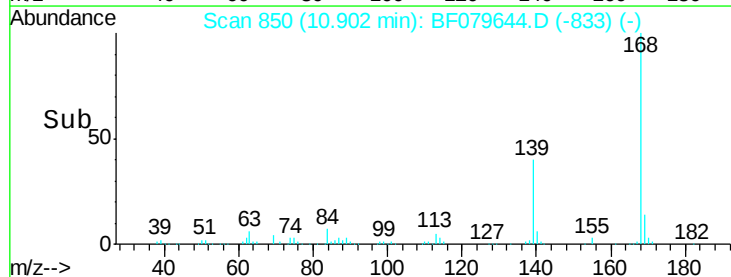
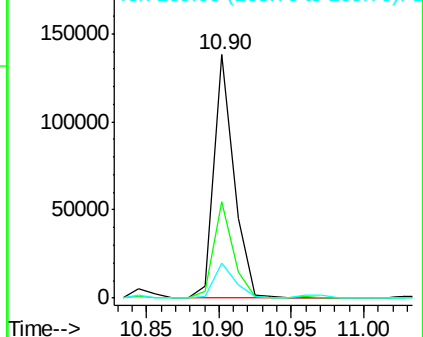


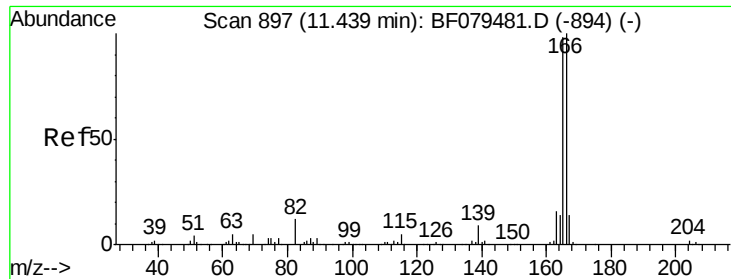
#54
Dibenzofuran
Concen: 10.96 ng
RT: 10.90 min Scan# 850
Delta R.T. -0.00 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	132773		
139	39.6	32.9	49.3	
169	14.2	11.1	16.7	



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





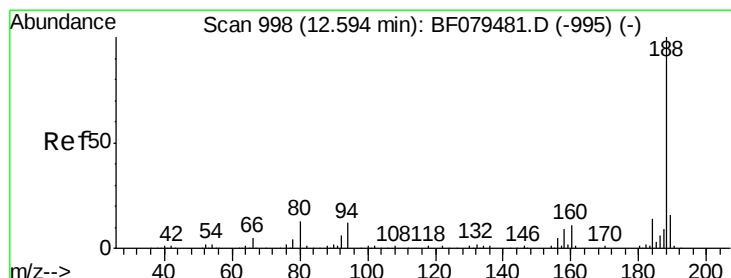
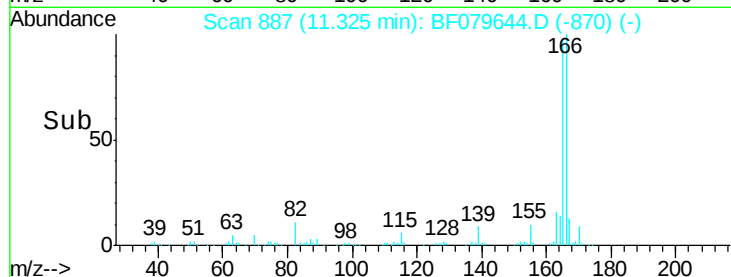
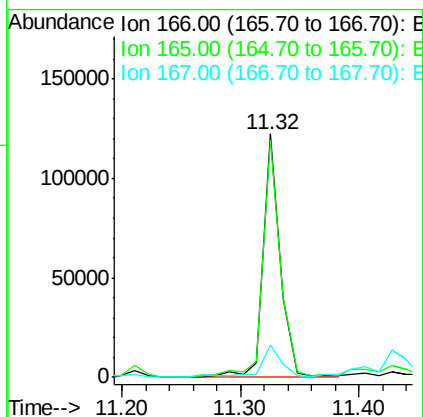
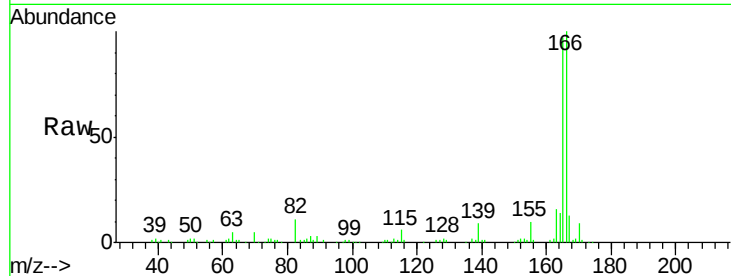
#57
Fluorene
 Concen: 12.30 ng
 RT: 11.32 min Scan# 887
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	122849		
165	97.5	78.6	117.8	
167	13.4	10.8	16.2	

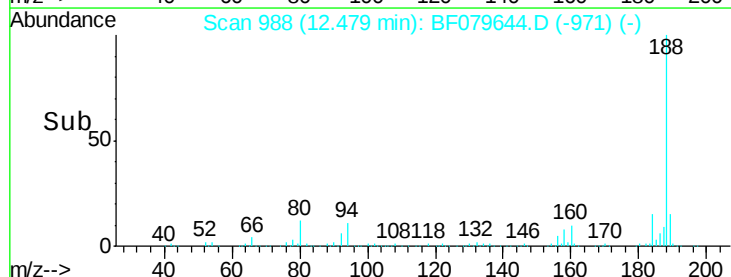
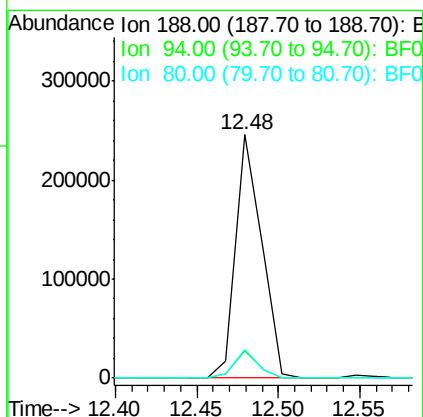
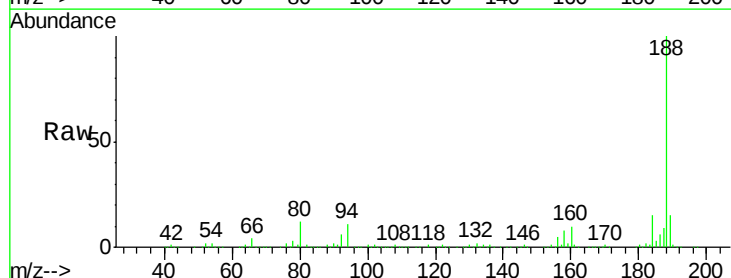
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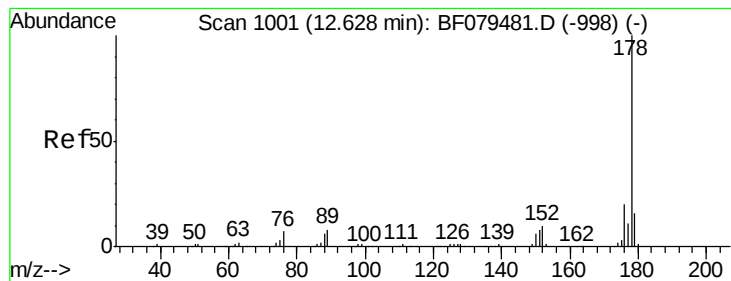
apatel
 6/1/2015 8:43:17 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.48 min Scan# 988
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	270262		
94	11.0	9.8	14.6	
80	11.9	10.5	15.7	





#70

Phenanthrene

Concen: 85.78 ng

RT: 12.51 min Scan# 991

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA_F

ClientSampleId :

SB-21S

Tgt Ion:178 Resp: 1271881

Ion Ratio Lower Upper

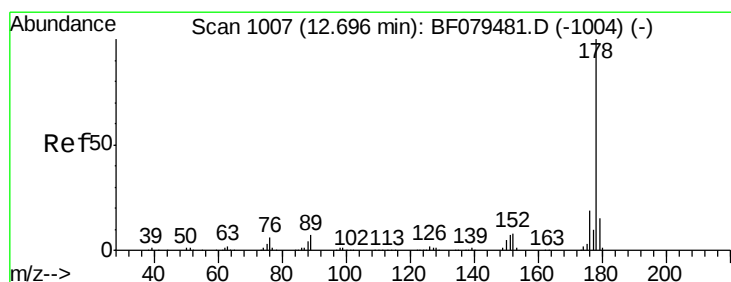
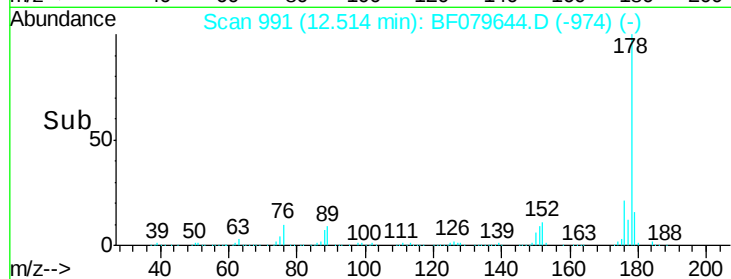
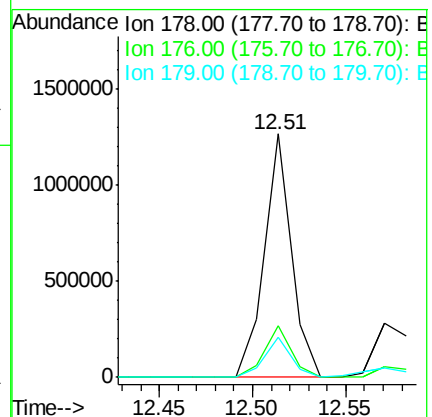
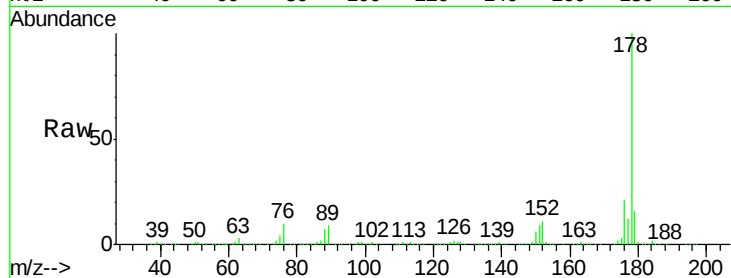
178 100

176 21.1 15.7 23.5

179 16.3 12.4 18.6

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#71

Anthracene

Concen: 23.73 ng

RT: 12.57 min Scan# 996

Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

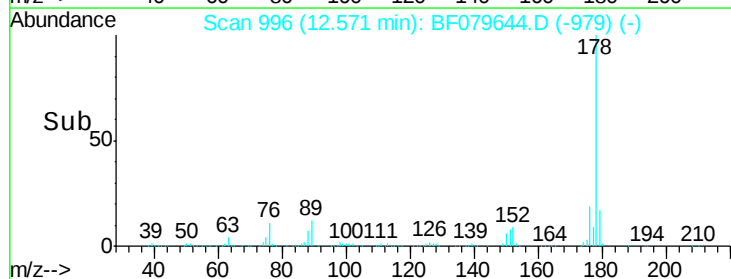
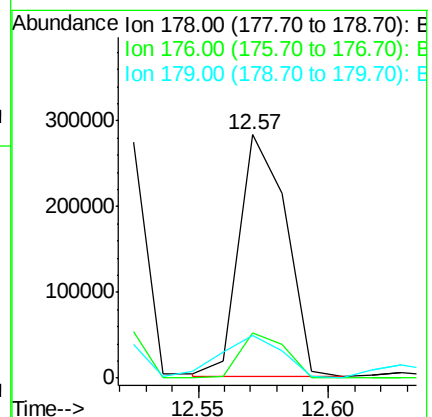
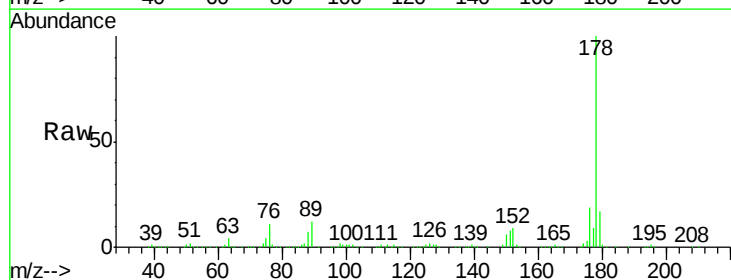
Tgt Ion:178 Resp: 357159

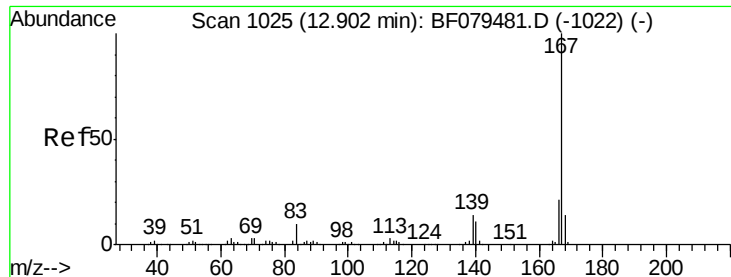
Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 17.4 12.2 18.4





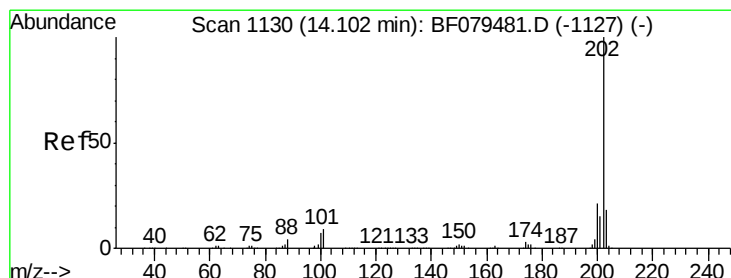
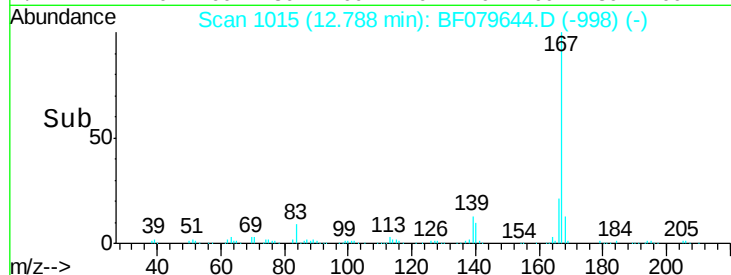
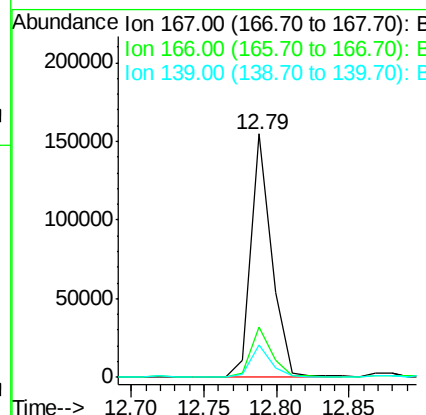
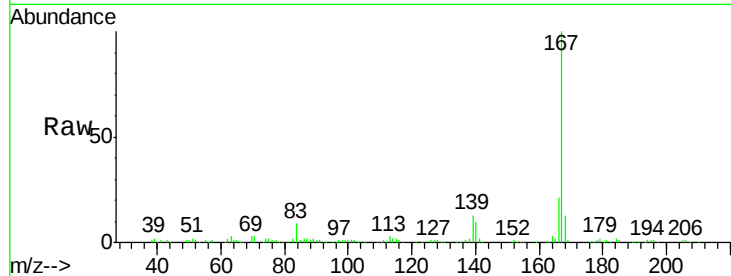
#72
 Carbazole
 Concen: 10.68 ng
 RT: 12.79 min Scan# 1015
 Delta R.T. -0.00 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Resp	Lower	Upper
167	100	154757		
166	20.9	17.0	25.4	
139	13.2	11.2	16.8	

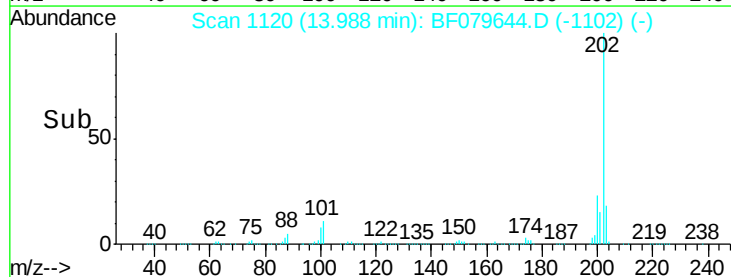
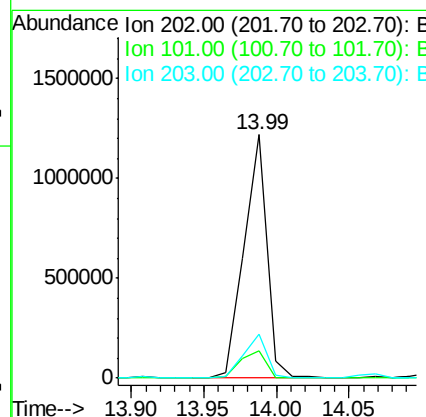
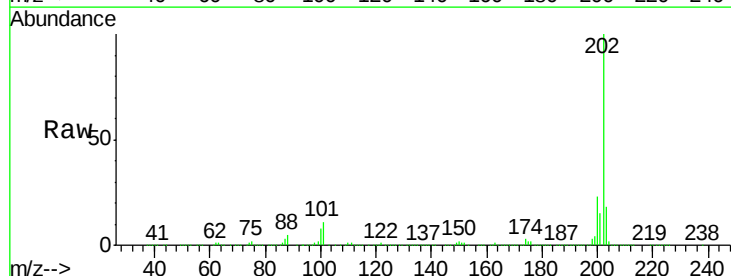
Manual Integrations
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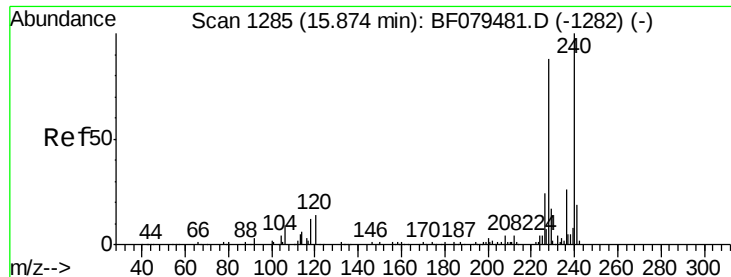
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#74
 Fluoranthene
 Concen: 83.81 ng
 RT: 13.99 min Scan# 1120
 Delta R.T. 0.01 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1332616		
101	11.5	0.0	29.3	
203	18.2	0.0	37.6	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.76 min Scan# 1275

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA_F

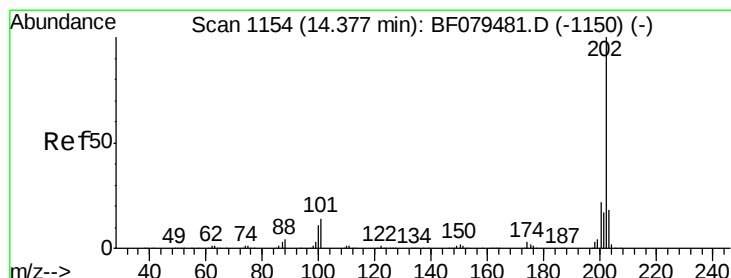
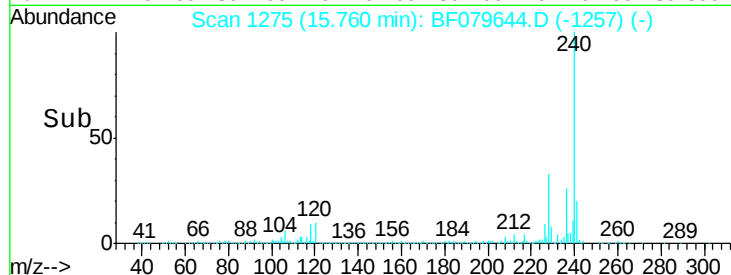
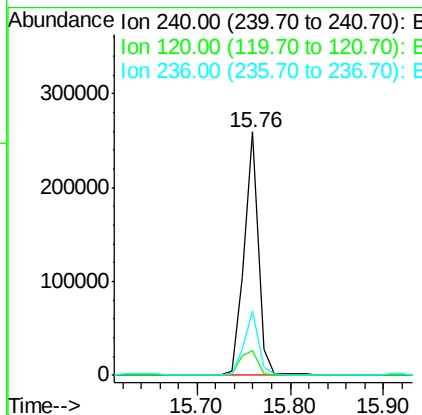
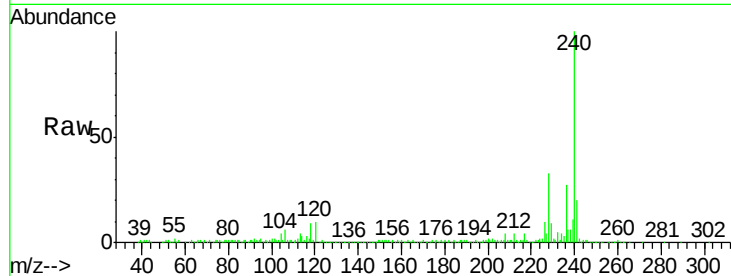
ClientSampleId :

SB-21S

Tgt Ion:	240	Resp:	274805
Ion Ratio	Lower	Upper	
240	100		
120	10.3	10.8	16.2#
236	26.5	21.0	31.6

Manual Integrations
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#77

Pyrene

Concen: 68.96 ng

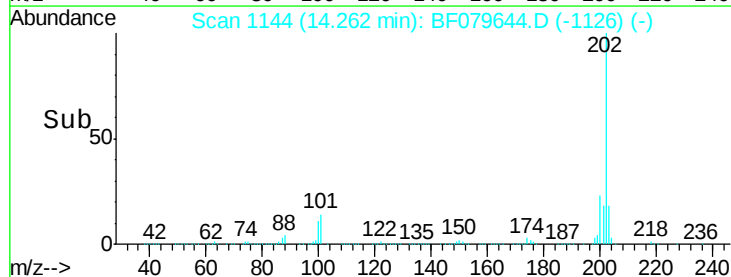
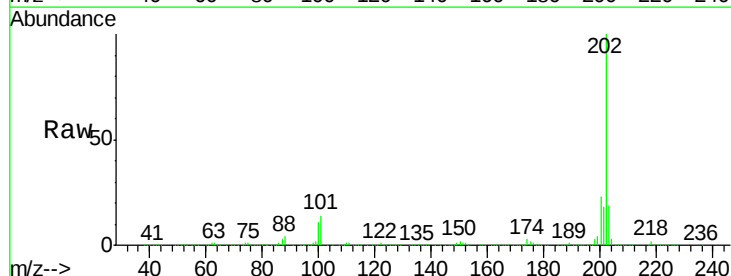
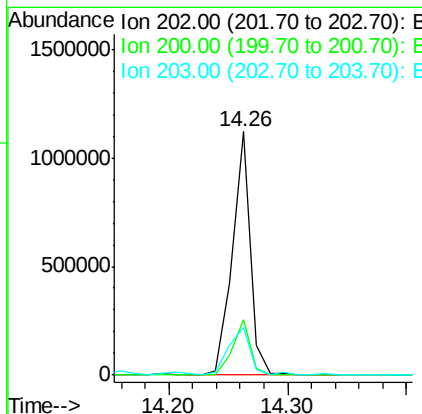
RT: 14.26 min Scan# 1144

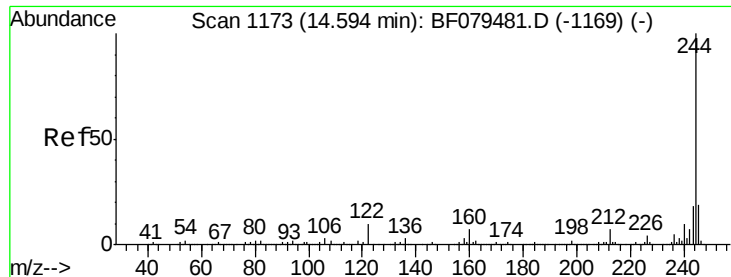
Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Tgt Ion:	202	Resp:	1174082
Ion Ratio	Lower	Upper	
202	100		
200	22.6	17.5	26.3
203	19.4	14.4	21.6





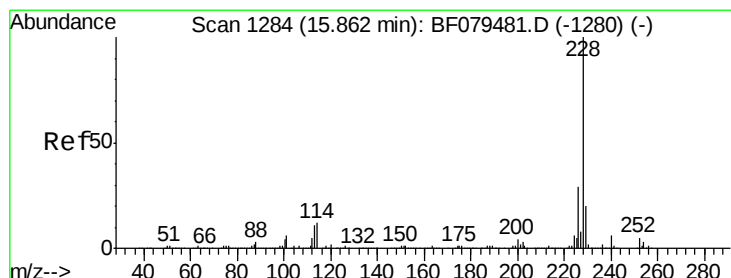
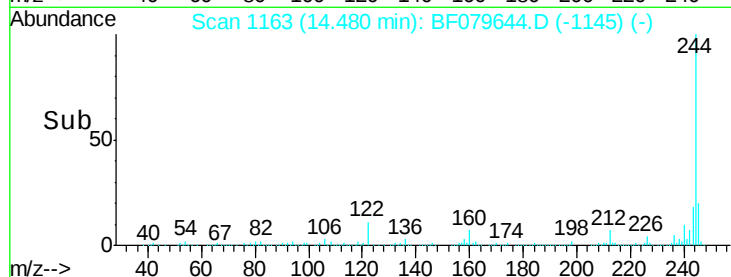
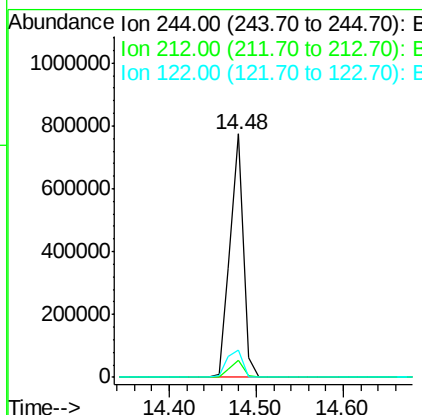
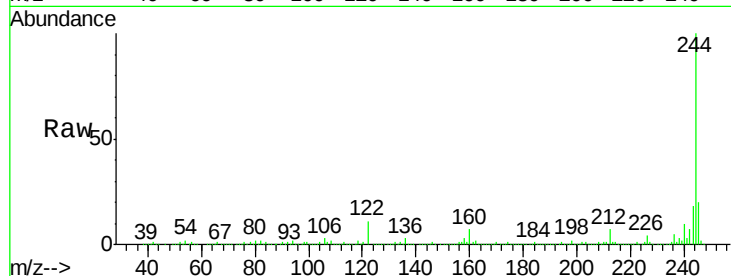
#78
 Terphenyl-d14
 Concen: 70.16 ng
 RT: 14.48 min Scan# 1163
 Delta R.T. 0.01 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampled :
 SB-21S

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	821516		
212	6.8	5.2	7.8	
122	11.0	8.0	12.0	

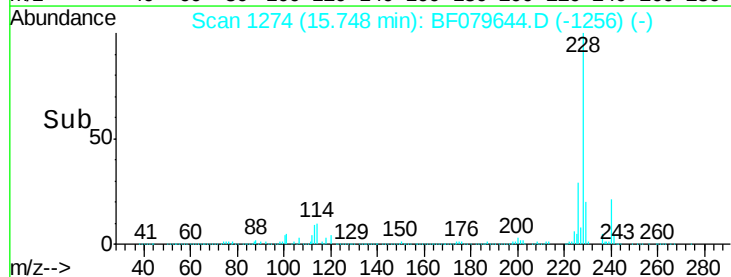
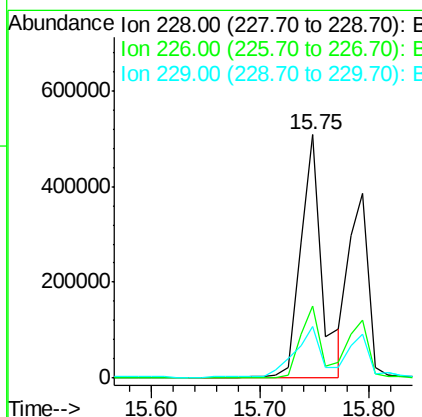
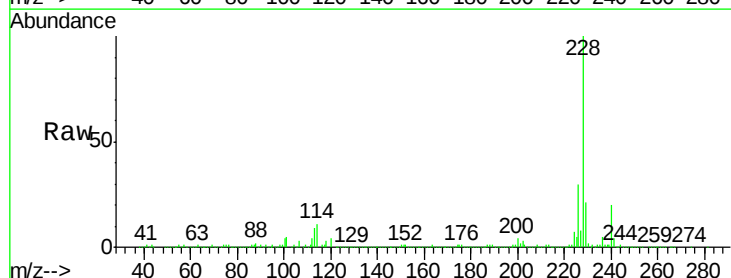
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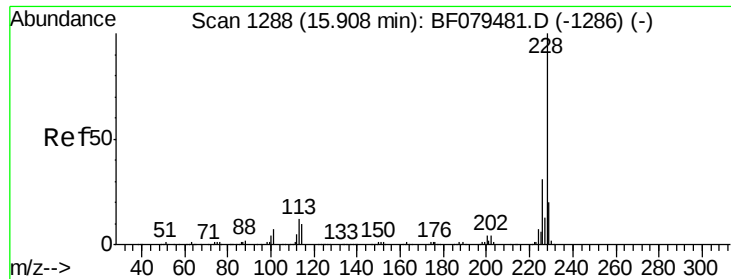
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#80
 Benzo(a)anthracene
 Concen: 43.88 ng
 RT: 15.75 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	693707		
226	29.5	22.8	34.2	
229	21.4	15.9	23.9	





#82

Chrysene

Concen: 32.62 ng

RT: 15.79 min Scan# 1278

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA_F

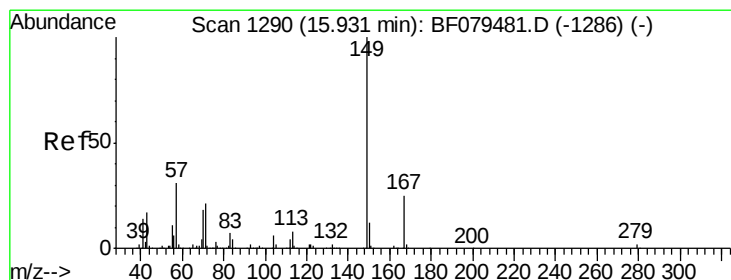
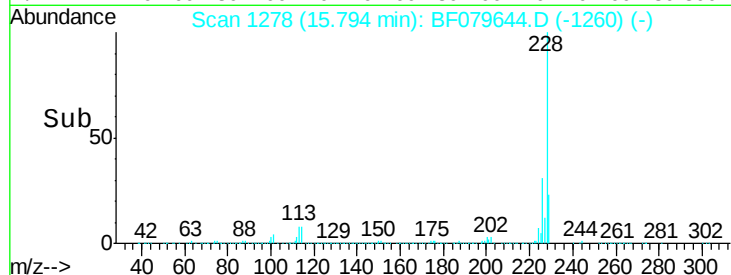
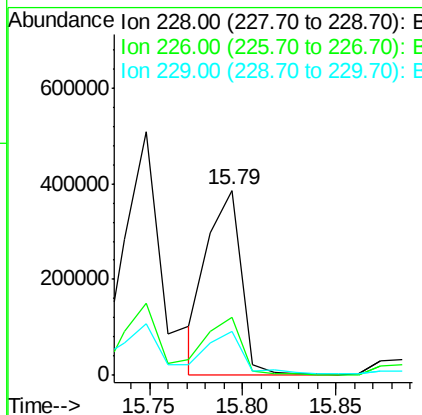
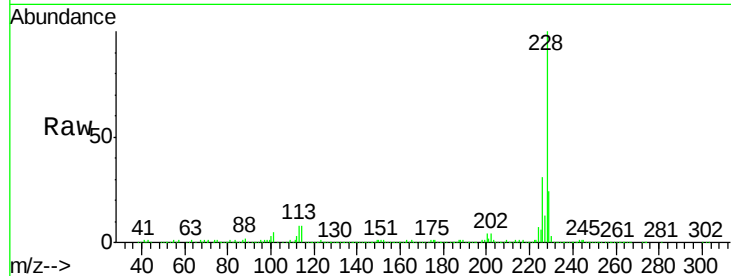
ClientSampleId :

SB-21S

Tgt Ion:	228	Resp:	490227
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.0	37.4
229	23.9	15.9	23.9

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#83

Bis(2-ethylhexyl)phthalate

Concen: 5.78 ng

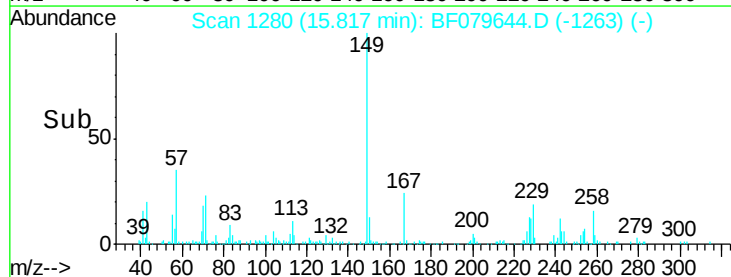
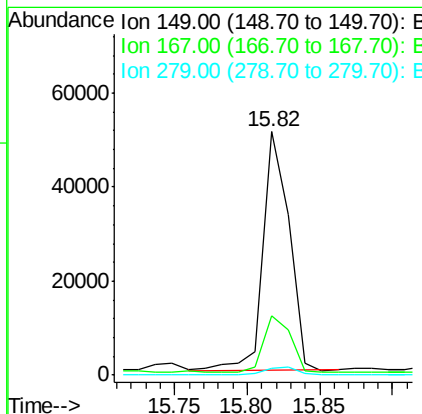
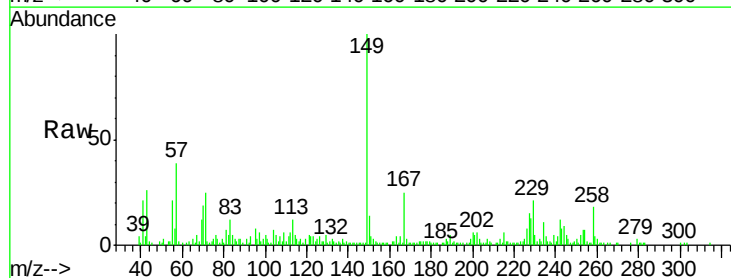
RT: 15.82 min Scan# 1280

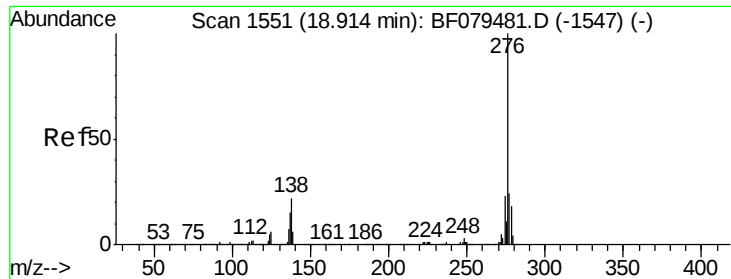
Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Tgt Ion:	149	Resp:	63396
Ion Ratio	Lower	Upper	
149	100		
167	24.6	20.2	30.4
279	2.8	2.0	3.0





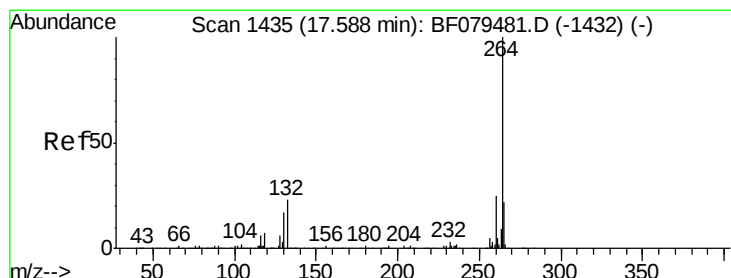
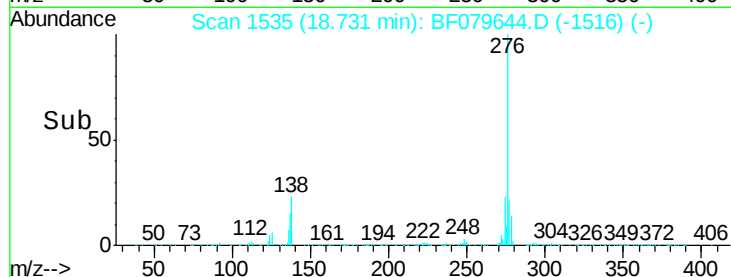
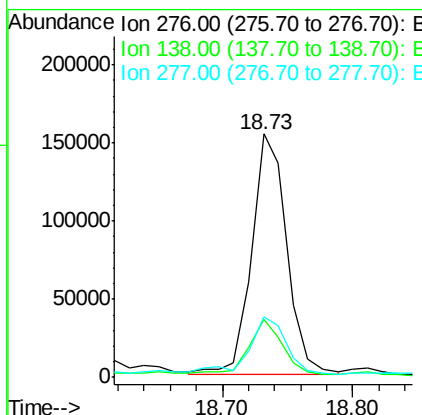
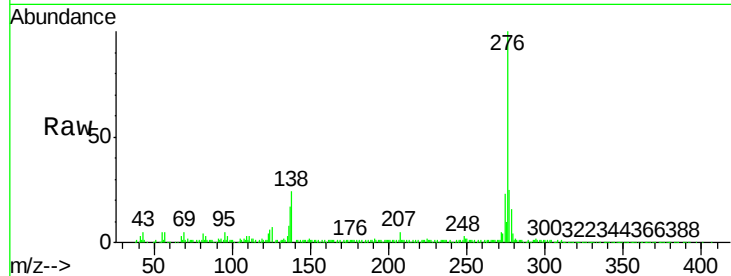
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.95 ng
 RT: 18.73 min Scan# 1535
 Delta R.T. 0.02 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	288914		
138	23.1	21.4	32.2	
277	27.2	19.8	29.6	

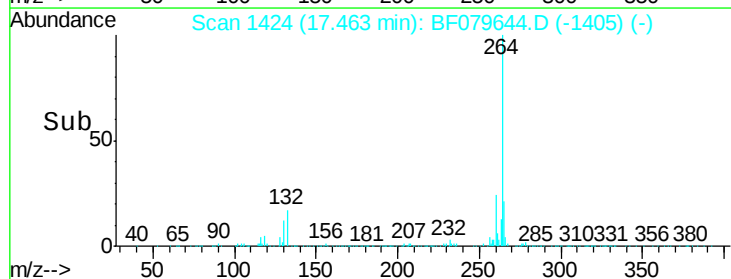
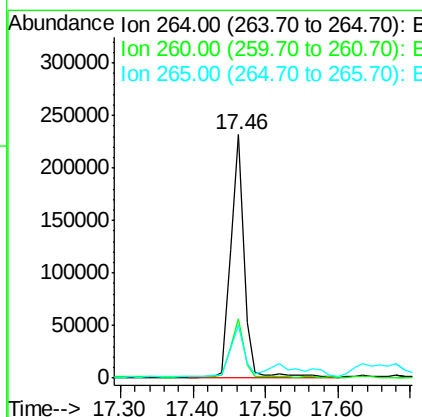
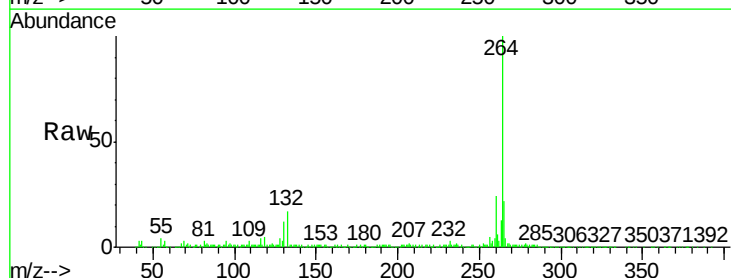
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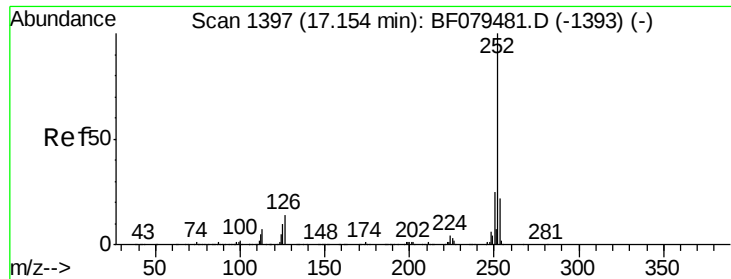
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.46 min Scan# 1424
 Delta R.T. 0.02 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	298505		
260	24.4	19.8	29.8	
265	21.7	17.8	26.6	





#87

Benzo(b)fluoranthene

Concen: 36.56 ng m

RT: 17.03 min Scan# 1386

Delta R.T. 0.01 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Instrument :

BNA_F

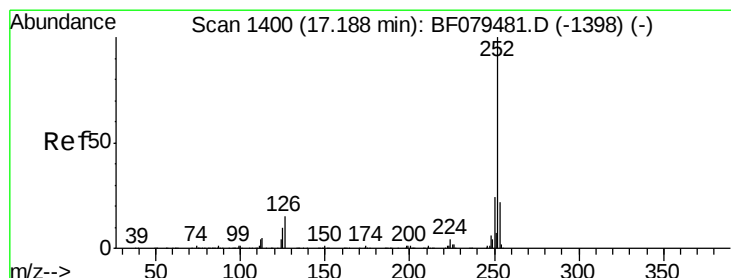
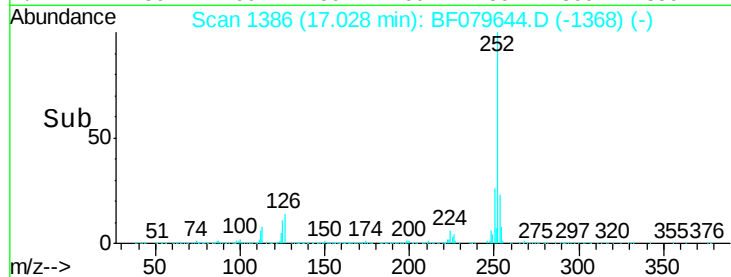
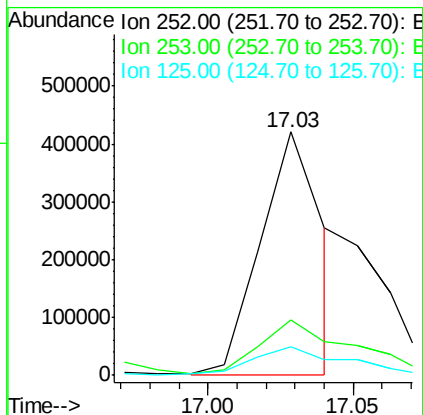
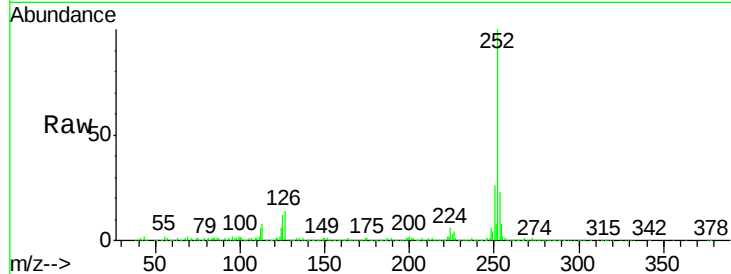
ClientSampleId :

SB-21S

Tgt Ion:	252	Resp:	622496
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.6	26.4
125	11.5	7.8	11.6

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#88

Benzo(k)fluoranthene

Concen: 17.43 ng m

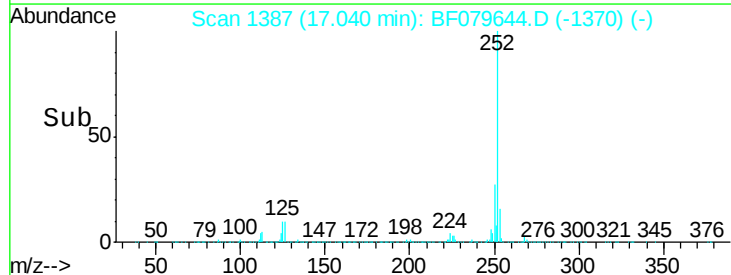
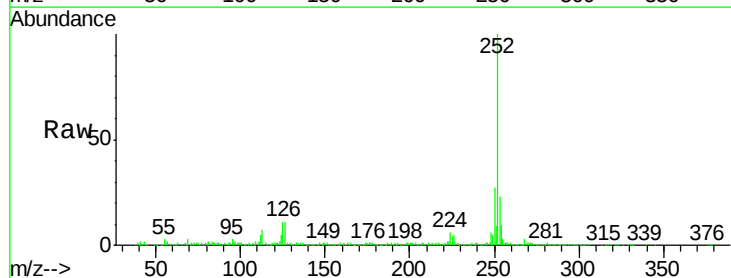
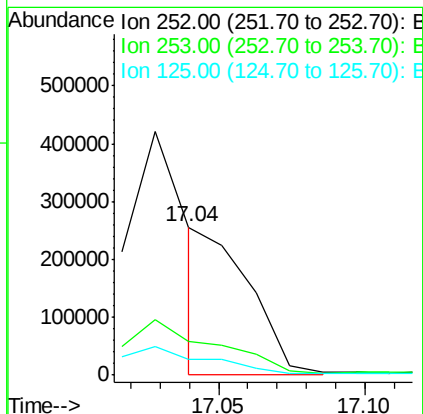
RT: 17.04 min Scan# 1387

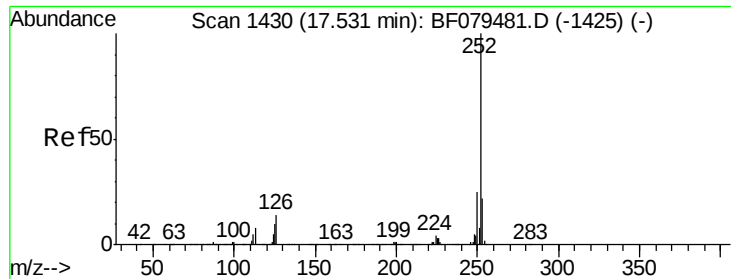
Delta R.T. -0.00 min

Lab File: BF079644.D

Acq: 31 May 2015 20:33

Tgt Ion:	252	Resp:	265371
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.2	25.8
125	10.6	6.8	10.2#





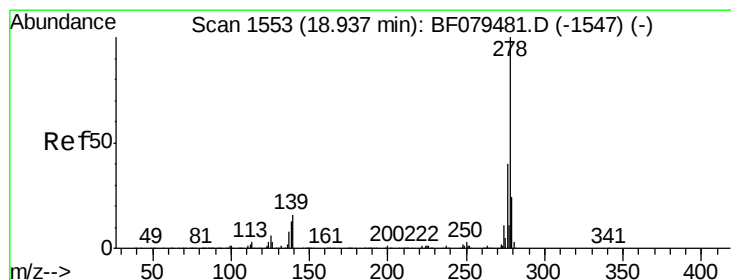
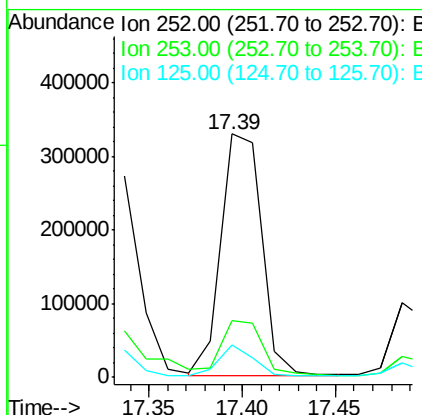
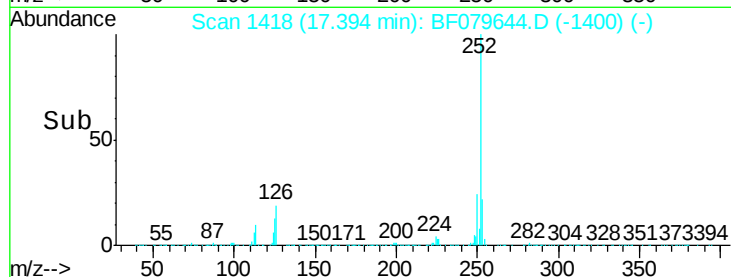
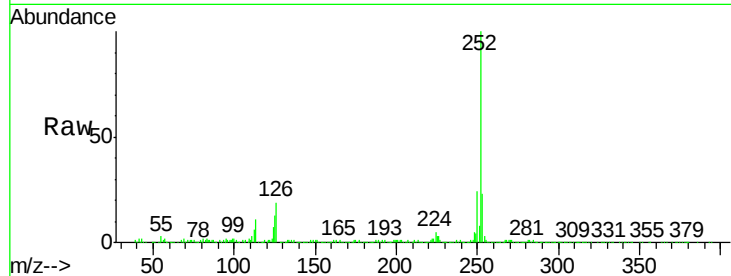
#89
Benzo(a)pyrene
Concen: 33.31 ng
RT: 17.39 min Scan# 1418
Delta R.T. 0.01 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Instrument :
BNA_F
ClientSampleId :
SB-21S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	13.4	7.9	11.9

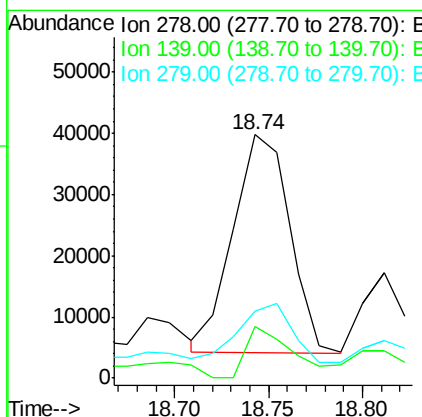
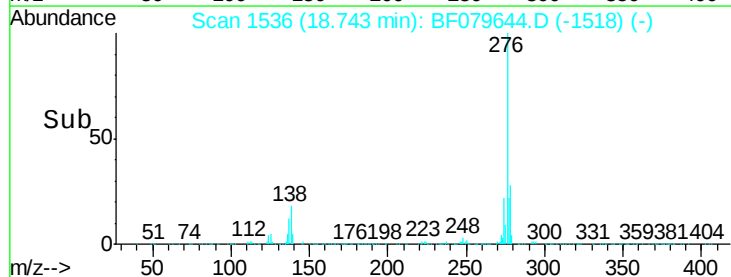
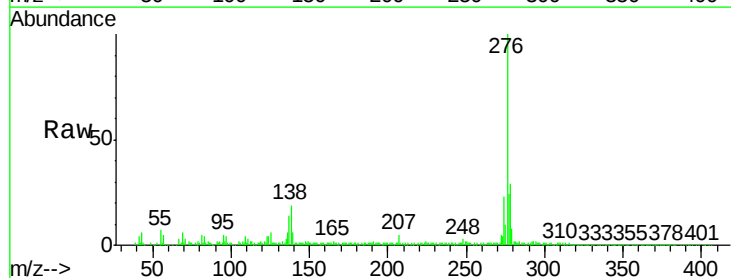
Manual Integrations
APPROVED

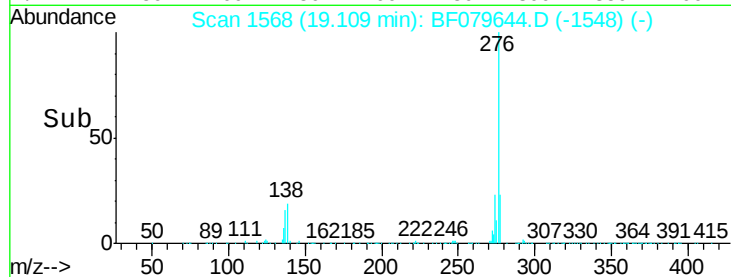
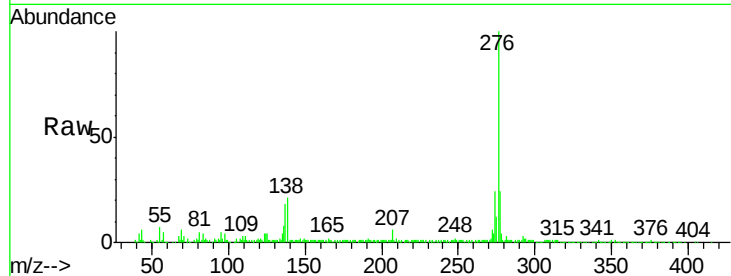
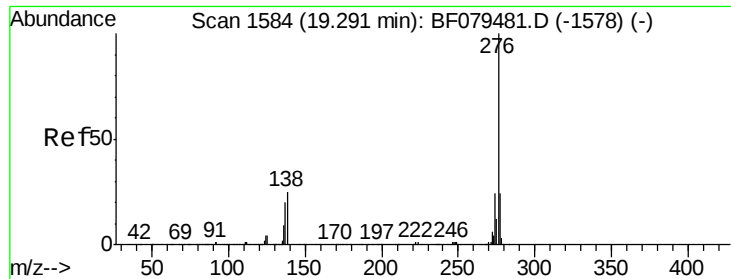
apatel
6/1/2015 8:43:17 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.39 ng m
RT: 18.74 min Scan# 1536
Delta R.T. 0.01 min
Lab File: BF079644.D
Acq: 31 May 2015 20:33

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.0	12.8	19.2
279	27.8	19.1	28.7





#91
 Benzo(g,h,i)perylene
 Concen: 15.58 ng
 RT: 19.11 min Scan# 1568
 Delta R.T. 0.03 min
 Lab File: BF079644.D
 Acq: 31 May 2015 20:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-21S

Tgt	Ion	276	Resp	260221
Ion	Ratio	100	Lower	Upper
276	100			
277	24.5	19.1	28.7	
138	21.4	20.1	30.1	

Manual Integrations
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