

Processing Gain Test for HZB-US58-B60

Test Setup:

The processing gain was measured using the CW jamming margin method as described in 15.247(e)(2). The specific test diagram is illustrated below.

All test equipment and the EUT were allowed to warm up for four hours prior to start of test to minimize drift over time. All test equipment had valid calibration. Calibration of carrier and interferer levels was performed several times during testing with no observed changes.

The measurements were performed on the frequency channel centered at 5744 MHz, over a range of ± 13 MHz, which is the pass band of the receiver.

For the carrier signal, a level of 20dB above threshold was chosen so that thermal noise would not effect the processing gain measurements. The measured threshold of the receive radio was -94 dBm at $BER = 1 \times 10^{-6}$. The attenuator was tuned up 20dB from the level the receiver reaches threshold to allow the signal level of the transmit radio reach -74dBm at the input of the receive radio.

For the jammer signal, -40 dBm at the generator (P_g) corresponds to -55dBm (P_j) at the receiver input.

BER testing is done via Smart Bit tester by running the frame loss test. Equipment was set up to send frames with length of 1250 bytes (8bits/byte), totaling 10,000 bits. Since path fading induced error would cause evenly distributed errors rather than error bursts, assumption is made that one packet loss is caused by one bit error. Therefore, 1% packet error rate equates to 10^{-6} BER.

Test Equipment:

Signal Generator	Hewlett Packard 8673B
Power Meter	HP EPM-441A with 8481D H39
Error Rate Tester	SMART BIT 200 OR 6000 LEVEL 3

Explanation of Results:

The following notations are used on the spreadsheet data:

P_g: Power at Generator in dBm (as indicated by generator display).

P_j: Power of interferer at the receiver input.(calculated in spreadsheet)

P_s: Power of carrier at receiver input

J/S: Jammer to Signal ratio, $P_j - P_s$ (dB) (calculated in spreadsheet)

G_p: Processing Gain: $(S/N)_o + J/S + L_{sys}$ where:

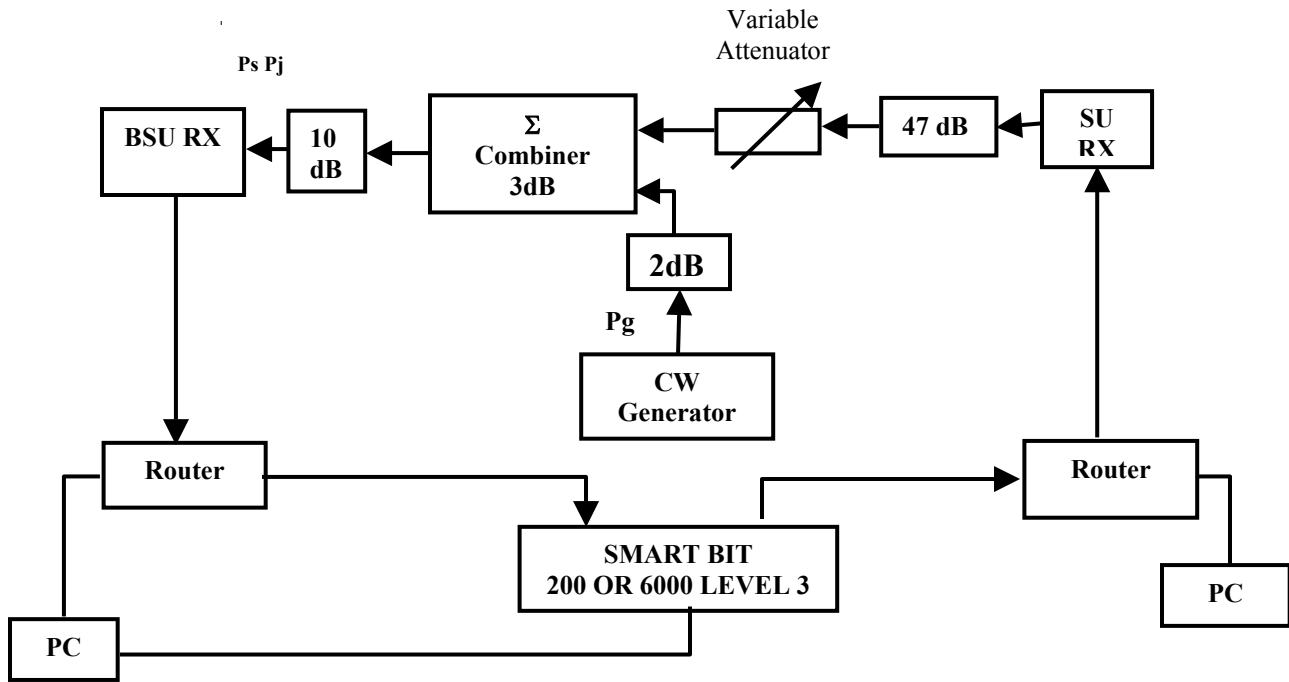
$L_{sys} = 2$ dB

$(S/N)_o = 13.5$ dB for QPSK and $BER = 10^{-6}$ (see curve provided)

therefore: $G_p = 13.5 + 2 + J/S = 15.5 + J/S$ (calculated in spreadsheet)

100% of measurements meet the minimum processing gain of 10 dB

Test Setup Block Diagram



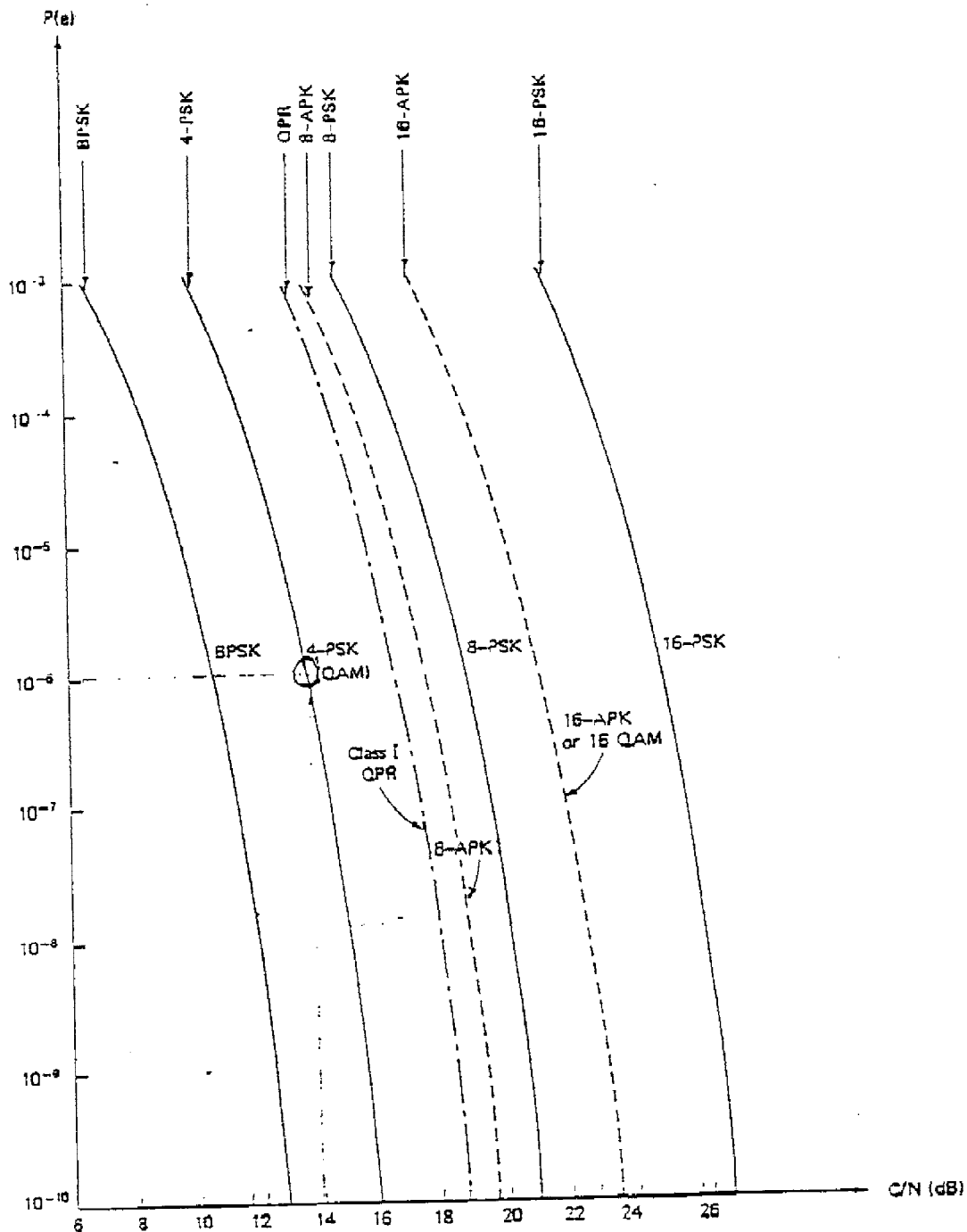


Fig. 3.21. $P(e)$ performance of M -ary PSK, QAM, QPR, and M -ary APK coherent systems. The rms C/N is specified in the double-sided Nyquist bandwidth.

Figure showing offset for QPSK (4-PSK) modulation C/N offset (14 dB).
 (Obtained from DIGITAL COMMUNICATIONS: Microwave Applications, by
 Kamillo Feher, Prentice-Hall Inc., 1981)

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
1	5731	-40	-55	-74	19	34.5
2	5731.05	-40	-55	-74	19	34.5
3	5731.1	-40	-55	-74	19	34.5
4	5731.15	-40	-55	-74	19	34.5
5	5731.2	-40	-55	-74	19	34.5
6	5731.25	-40	-55	-74	19	34.5
7	5731.3	-40	-55	-74	19	34.5
8	5731.35	-40	-55	-74	19	34.5
9	5731.4	-40	-55	-74	19	34.5
10	5731.45	-40	-55	-74	19	34.5
11	5731.5	-40	-55	-74	19	34.5
12	5731.55	-40.6	-55.6	-74	18.4	33.9
13	5731.6	-40.6	-55.6	-74	18.4	33.9
14	5731.65	-40.6	-55.6	-74	18.4	33.9
15	5731.7	-40.6	-55.6	-74	18.4	33.9
16	5731.75	-40.6	-55.6	-74	18.4	33.9
17	5731.8	-40.6	-55.6	-74	18.4	33.9
18	5731.85	-40.6	-55.6	-74	18.4	33.9
19	5731.9	-40.6	-55.6	-74	18.4	33.9
20	5731.95	-40.6	-55.6	-74	18.4	33.9
21	5732	-40.6	-55.6	-74	18.4	33.9
22	5732.05	-40.6	-55.6	-74	18.4	33.9
23	5732.1	-41.2	-56.2	-74	17.8	33.3
24	5732.15	-41.2	-56.2	-74	17.8	33.3
25	5732.2	-41.2	-56.2	-74	17.8	33.3
26	5732.25	-41.2	-56.2	-74	17.8	33.3
27	5732.3	-41.2	-56.2	-74	17.8	33.3
28	5732.35	-41.2	-56.2	-74	17.8	33.3
29	5732.4	-43.2	-58.2	-74	15.8	31.3
30	5732.45	-43.2	-58.2	-74	15.8	31.3
31	5732.5	-43.2	-58.2	-74	15.8	31.3
32	5732.55	-43.2	-58.2	-74	15.8	31.3
33	5732.6	-43.2	-58.2	-74	15.8	31.3
34	5732.65	-43.2	-58.2	-74	15.8	31.3
35	5732.7	-43.2	-58.2	-74	15.8	31.3
36	5732.75	-43.2	-58.2	-74	15.8	31.3
37	5732.8	-43.2	-58.2	-74	15.8	31.3
38	5732.85	-43.2	-58.2	-74	15.8	31.3
39	5732.9	-43.2	-58.2	-74	15.8	31.3
40	5732.95	-49.6	-64.6	-74	9.4	24.9
41	5733	-49.6	-64.6	-74	9.4	24.9
42	5733.05	-49.6	-64.6	-74	9.4	24.9
43	5733.1	-49.6	-64.6	-74	9.4	24.9
44	5733.15	-49.6	-64.6	-74	9.4	24.9
45	5733.2	-49.6	-64.6	-74	9.4	24.9
46	5733.25	-49.6	-64.6	-74	9.4	24.9
47	5733.3	-49.6	-64.6	-74	9.4	24.9
48	5733.35	-49.6	-64.6	-74	9.4	24.9
49	5733.4	-49.6	-64.6	-74	9.4	24.9
50	5733.45	-54.5	-69.5	-74	4.5	20

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
51	5733.5	-54.5	-69.5	-74	4.5	20
52	5733.55	-54.5	-69.5	-74	4.5	20
53	5733.6	-54.5	-69.5	-74	4.5	20
54	5733.65	-54.5	-69.5	-74	4.5	20
55	5733.7	-54.5	-69.5	-74	4.5	20
56	5733.75	-59.6	-74.6	-74	-0.6	14.9
57	5733.8	-59.6	-74.6	-74	-0.6	14.9
58	5733.85	-59.6	-74.6	-74	-0.6	14.9
59	5733.9	-59.6	-74.6	-74	-0.6	14.9
60	5733.95	-59.6	-74.6	-74	-0.6	14.9
61	5734	-62.1	-77.1	-74	-3.1	12.4
62	5734.05	-62.1	-77.1	-74	-3.1	12.4
63	5734.1	-62.1	-77.1	-74	-3.1	12.4
64	5734.15	-62.1	-77.1	-74	-3.1	12.4
65	5734.2	-62.1	-77.1	-74	-3.1	12.4
66	5734.25	-62.1	-77.1	-74	-3.1	12.4
67	5734.3	-62.1	-77.1	-74	-3.1	12.4
68	5734.35	-62.1	-77.1	-74	-3.1	12.4
69	5734.4	-62.5	-77.5	-74	-3.5	12
70	5734.45	-62.5	-77.5	-74	-3.5	12
71	5734.5	-62.5	-77.5	-74	-3.5	12
72	5734.55	-62.5	-77.5	-74	-3.5	12
73	5734.6	-62.5	-77.5	-74	-3.5	12
74	5734.65	-62.5	-77.5	-74	-3.5	12
75	5734.7	-62.5	-77.5	-74	-3.5	12
76	5734.75	-62.5	-77.5	-74	-3.5	12
77	5734.8	-62.5	-77.5	-74	-3.5	12
78	5734.85	-62.5	-77.5	-74	-3.5	12
79	5734.9	-62.5	-77.5	-74	-3.5	12
80	5734.95	-62.5	-77.5	-74	-3.5	12
81	5735	-62.5	-77.5	-74	-3.5	12
82	5735.05	-62.5	-77.5	-74	-3.5	12
83	5735.1	-62.5	-77.5	-74	-3.5	12
84	5735.15	-62.5	-77.5	-74	-3.5	12
85	5735.2	-62.5	-77.5	-74	-3.5	12
86	5735.25	-62.5	-77.5	-74	-3.5	12
87	5735.3	-62.5	-77.5	-74	-3.5	12
88	5735.35	-62.5	-77.5	-74	-3.5	12
89	5735.4	-62.5	-77.5	-74	-3.5	12
90	5735.45	-62.5	-77.5	-74	-3.5	12
91	5735.5	-62.5	-77.5	-74	-3.5	12
92	5735.55	-62.5	-77.5	-74	-3.5	12
93	5735.6	-62.5	-77.5	-74	-3.5	12
94	5735.65	-62.5	-77.5	-74	-3.5	12
95	5735.7	-62.5	-77.5	-74	-3.5	12
96	5735.75	-63	-78	-74	-4	11.5
97	5735.8	-63	-78	-74	-4	11.5
98	5735.85	-63	-78	-74	-4	11.5
99	5735.9	-63	-78	-74	-4	11.5
100	5735.95	-63	-78	-74	-4	11.5

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
101	5736	-63	-78	-74	-4	11.5
102	5736.05	-63	-78	-74	-4	11.5
103	5736.1	-63	-78	-74	-4	11.5
104	5736.15	-63.5	-78.5	-74	-4.5	11
105	5736.2	-63.5	-78.5	-74	-4.5	11
106	5736.25	-63.5	-78.5	-74	-4.5	11
107	5736.3	-63.5	-78.5	-74	-4.5	11
108	5736.35	-63.5	-78.5	-74	-4.5	11
109	5736.4	-63.5	-78.5	-74	-4.5	11
110	5736.45	-63.5	-78.5	-74	-4.5	11
111	5736.5	-63.5	-78.5	-74	-4.5	11
112	5736.55	-63.5	-78.5	-74	-4.5	11
113	5736.6	-63.5	-78.5	-74	-4.5	11
114	5736.65	-63.5	-78.5	-74	-4.5	11
115	5736.7	-63.5	-78.5	-74	-4.5	11
116	5736.75	-63.5	-78.5	-74	-4.5	11
117	5736.8	-63.5	-78.5	-74	-4.5	11
118	5736.85	-63.5	-78.5	-74	-4.5	11
119	5736.9	-63.5	-78.5	-74	-4.5	11
120	5736.95	-63.5	-78.5	-74	-4.5	11
121	5737	-63.5	-78.5	-74	-4.5	11
122	5737.05	-63.5	-78.5	-74	-4.5	11
123	5737.1	-63.5	-78.5	-74	-4.5	11
124	5737.15	-63.5	-78.5	-74	-4.5	11
125	5737.2	-63.5	-78.5	-74	-4.5	11
126	5737.25	-63.5	-78.5	-74	-4.5	11
127	5737.3	-63.5	-78.5	-74	-4.5	11
128	5737.35	-63.5	-78.5	-74	-4.5	11
129	5737.4	-63.5	-78.5	-74	-4.5	11
130	5737.45	-63.5	-78.5	-74	-4.5	11
131	5737.5	-63.5	-78.5	-74	-4.5	11
132	5737.55	-63.5	-78.5	-74	-4.5	11
133	5737.6	-63.5	-78.5	-74	-4.5	11
134	5737.65	-63.5	-78.5	-74	-4.5	11
135	5737.7	-63.5	-78.5	-74	-4.5	11
136	5737.75	-63.5	-78.5	-74	-4.5	11
137	5737.8	-63.5	-78.5	-74	-4.5	11
138	5737.85	-63.5	-78.5	-74	-4.5	11
139	5737.9	-63.5	-78.5	-74	-4.5	11
140	5737.95	-63.5	-78.5	-74	-4.5	11
141	5738	-63.5	-78.5	-74	-4.5	11
142	5738.05	-63.5	-78.5	-74	-4.5	11
143	5738.1	-63.5	-78.5	-74	-4.5	11
144	5738.15	-63.5	-78.5	-74	-4.5	11
145	5738.2	-63.5	-78.5	-74	-4.5	11
146	5738.25	-63.5	-78.5	-74	-4.5	11
147	5738.3	-63.5	-78.5	-74	-4.5	11
148	5738.35	-63.5	-78.5	-74	-4.5	11
149	5738.4	-63.5	-78.5	-74	-4.5	11
150	5738.45	-63.5	-78.5	-74	-4.5	11

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
151	5738.5	-63.5	-78.5	-74	-4.5	11
152	5738.55	-63.5	-78.5	-74	-4.5	11
153	5738.6	-63.5	-78.5	-74	-4.5	11
154	5738.65	-63.5	-78.5	-74	-4.5	11
155	5738.7	-63.5	-78.5	-74	-4.5	11
156	5738.75	-63.5	-78.5	-74	-4.5	11
157	5738.8	-63.5	-78.5	-74	-4.5	11
158	5738.85	-63.5	-78.5	-74	-4.5	11
159	5738.9	-63.5	-78.5	-74	-4.5	11
160	5738.95	-63.5	-78.5	-74	-4.5	11
161	5739	-63.5	-78.5	-74	-4.5	11
162	5739.05	-63.5	-78.5	-74	-4.5	11
163	5739.1	-63.5	-78.5	-74	-4.5	11
164	5739.15	-63.5	-78.5	-74	-4.5	11
165	5739.2	-63.5	-78.5	-74	-4.5	11
166	5739.25	-63.5	-78.5	-74	-4.5	11
167	5739.3	-63.5	-78.5	-74	-4.5	11
168	5739.35	-63.5	-78.5	-74	-4.5	11
169	5739.4	-63.5	-78.5	-74	-4.5	11
170	5739.45	-63.5	-78.5	-74	-4.5	11
171	5739.5	-63.5	-78.5	-74	-4.5	11
172	5739.55	-63.5	-78.5	-74	-4.5	11
173	5739.6	-63.5	-78.5	-74	-4.5	11
174	5739.65	-63.5	-78.5	-74	-4.5	11
175	5739.7	-63.5	-78.5	-74	-4.5	11
176	5739.75	-63.5	-78.5	-74	-4.5	11
177	5739.8	-63.5	-78.5	-74	-4.5	11
178	5739.85	-63.5	-78.5	-74	-4.5	11
179	5739.9	-63.5	-78.5	-74	-4.5	11
180	5739.95	-63.5	-78.5	-74	-4.5	11
181	5740	-63.5	-78.5	-74	-4.5	11
182	5740.05	-63.5	-78.5	-74	-4.5	11
183	5740.1	-63.5	-78.5	-74	-4.5	11
184	5740.15	-63.5	-78.5	-74	-4.5	11
185	5740.2	-63.5	-78.5	-74	-4.5	11
186	5740.25	-63.5	-78.5	-74	-4.5	11
187	5740.3	-63.5	-78.5	-74	-4.5	11
188	5740.35	-63.5	-78.5	-74	-4.5	11
189	5740.4	-63.5	-78.5	-74	-4.5	11
190	5740.45	-63.5	-78.5	-74	-4.5	11
191	5740.5	-63.5	-78.5	-74	-4.5	11
192	5740.55	-63.5	-78.5	-74	-4.5	11
193	5740.6	-63.5	-78.5	-74	-4.5	11
194	5740.65	-63.5	-78.5	-74	-4.5	11
195	5740.7	-63.5	-78.5	-74	-4.5	11
196	5740.75	-63.5	-78.5	-74	-4.5	11
197	5740.8	-63.5	-78.5	-74	-4.5	11
198	5740.85	-63.5	-78.5	-74	-4.5	11
199	5740.9	-63.5	-78.5	-74	-4.5	11
200	5740.95	-63.5	-78.5	-74	-4.5	11

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
201	5741	-63.5	-78.5	-74	-4.5	11
202	5741.05	-63.5	-78.5	-74	-4.5	11
203	5741.1	-63.5	-78.5	-74	-4.5	11
204	5741.15	-63.5	-78.5	-74	-4.5	11
205	5741.2	-63.5	-78.5	-74	-4.5	11
206	5741.25	-63.5	-78.5	-74	-4.5	11
207	5741.3	-63.5	-78.5	-74	-4.5	11
208	5741.35	-63.5	-78.5	-74	-4.5	11
209	5741.4	-63.5	-78.5	-74	-4.5	11
210	5741.45	-63.5	-78.5	-74	-4.5	11
211	5741.5	-63.5	-78.5	-74	-4.5	11
212	5741.55	-63.5	-78.5	-74	-4.5	11
213	5741.6	-63.5	-78.5	-74	-4.5	11
214	5741.65	-63.5	-78.5	-74	-4.5	11
215	5741.7	-63.5	-78.5	-74	-4.5	11
216	5741.75	-63.5	-78.5	-74	-4.5	11
217	5741.8	-63.5	-78.5	-74	-4.5	11
218	5741.85	-63.5	-78.5	-74	-4.5	11
219	5741.9	-63.5	-78.5	-74	-4.5	11
220	5741.95	-63.5	-78.5	-74	-4.5	11
221	5742	-63.5	-78.5	-74	-4.5	11
222	5742.05	-64	-79	-74	-5	10.5
223	5742.1	-64	-79	-74	-5	10.5
224	5742.15	-64	-79	-74	-5	10.5
225	5742.2	-64	-79	-74	-5	10.5
226	5742.25	-64	-79	-74	-5	10.5
227	5742.3	-64	-79	-74	-5	10.5
228	5742.35	-64	-79	-74	-5	10.5
229	5742.4	-64	-79	-74	-5	10.5
230	5742.45	-64	-79	-74	-5	10.5
231	5742.5	-64	-79	-74	-5	10.5
232	5742.55	-64	-79	-74	-5	10.5
233	5742.6	-64	-79	-74	-5	10.5
234	5742.65	-64	-79	-74	-5	10.5
235	5742.7	-64	-79	-74	-5	10.5
236	5742.75	-64	-79	-74	-5	10.5
237	5742.8	-64	-79	-74	-5	10.5
238	5742.85	-64	-79	-74	-5	10.5
239	5742.9	-64	-79	-74	-5	10.5
240	5742.95	-64	-79	-74	-5	10.5
241	5743	-64	-79	-74	-5	10.5
242	5743.05	-64	-79	-74	-5	10.5
243	5743.1	-64	-79	-74	-5	10.5
244	5743.15	-64	-79	-74	-5	10.5
245	5743.2	-64	-79	-74	-5	10.5
246	5743.25	-64	-79	-74	-5	10.5
247	5743.3	-64	-79	-74	-5	10.5
248	5743.35	-64	-79	-74	-5	10.5
249	5743.4	-64	-79	-74	-5	10.5
250	5743.45	-64	-79	-74	-5	10.5

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
251	5743.5	-64	-79	-74	-5	10.5
252	5743.55	-64	-79	-74	-5	10.5
253	5743.6	-64	-79	-74	-5	10.5
254	5743.65	-64	-79	-74	-5	10.5
255	5743.7	-64	-79	-74	-5	10.5
256	5743.75	-64	-79	-74	-5	10.5
257	5743.8	-64	-79	-74	-5	10.5
258	5743.85	-64	-79	-74	-5	10.5
259	5743.9	-64	-79	-74	-5	10.5
260	5743.95	-64	-79	-74	-5	10.5
261	5744	-63.7	-78.7	-74	-4.7	10.8
262	5744.05	-63.7	-78.7	-74	-4.7	10.8
263	5744.1	-63.7	-78.7	-74	-4.7	10.8
264	5744.15	-63.7	-78.7	-74	-4.7	10.8
265	5744.2	-63.7	-78.7	-74	-4.7	10.8
266	5744.25	-63.7	-78.7	-74	-4.7	10.8
267	5744.3	-63.7	-78.7	-74	-4.7	10.8
268	5744.35	-63.7	-78.7	-74	-4.7	10.8
269	5744.4	-63.7	-78.7	-74	-4.7	10.8
270	5744.45	-63.7	-78.7	-74	-4.7	10.8
271	5744.5	-63.7	-78.7	-74	-4.7	10.8
272	5744.55	-63.7	-78.7	-74	-4.7	10.8
273	5744.6	-63.7	-78.7	-74	-4.7	10.8
274	5744.65	-63.7	-78.7	-74	-4.7	10.8
275	5744.7	-63.7	-78.7	-74	-4.7	10.8
276	5744.75	-63.7	-78.7	-74	-4.7	10.8
277	5744.8	-63.7	-78.7	-74	-4.7	10.8
278	5744.85	-63.7	-78.7	-74	-4.7	10.8
279	5744.9	-63.7	-78.7	-74	-4.7	10.8
280	5744.95	-63.7	-78.7	-74	-4.7	10.8
281	5745	-63.7	-78.7	-74	-4.7	10.8
282	5745.05	-63.7	-78.7	-74	-4.7	10.8
283	5745.1	-63.7	-78.7	-74	-4.7	10.8
284	5745.15	-63.7	-78.7	-74	-4.7	10.8
285	5745.2	-63.7	-78.7	-74	-4.7	10.8
286	5745.25	-63.7	-78.7	-74	-4.7	10.8
287	5745.3	-63.7	-78.7	-74	-4.7	10.8
288	5745.35	-63.7	-78.7	-74	-4.7	10.8
289	5745.4	-63.7	-78.7	-74	-4.7	10.8
290	5745.45	-63.7	-78.7	-74	-4.7	10.8
291	5745.5	-63.7	-78.7	-74	-4.7	10.8
292	5745.55	-63.7	-78.7	-74	-4.7	10.8
293	5745.6	-63.7	-78.7	-74	-4.7	10.8
294	5745.65	-63.7	-78.7	-74	-4.7	10.8
295	5745.7	-63.7	-78.7	-74	-4.7	10.8
296	5745.75	-63.7	-78.7	-74	-4.7	10.8
297	5745.8	-63.7	-78.7	-74	-4.7	10.8
298	5745.85	-63.7	-78.7	-74	-4.7	10.8
299	5745.9	-63.7	-78.7	-74	-4.7	10.8
300	5745.95	-63.7	-78.7	-74	-4.7	10.8

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
301	5746	-63.2	-78.2	-74	-4.2	11.3
302	5746.05	-63.2	-78.2	-74	-4.2	11.3
303	5746.1	-63.2	-78.2	-74	-4.2	11.3
304	5746.15	-63.2	-78.2	-74	-4.2	11.3
305	5746.2	-63.2	-78.2	-74	-4.2	11.3
306	5746.25	-63.2	-78.2	-74	-4.2	11.3
307	5746.3	-63.2	-78.2	-74	-4.2	11.3
308	5746.35	-63.2	-78.2	-74	-4.2	11.3
309	5746.4	-63.2	-78.2	-74	-4.2	11.3
310	5746.45	-63.2	-78.2	-74	-4.2	11.3
311	5746.5	-63.2	-78.2	-74	-4.2	11.3
312	5746.55	-63.2	-78.2	-74	-4.2	11.3
313	5746.6	-63.2	-78.2	-74	-4.2	11.3
314	5746.65	-63.2	-78.2	-74	-4.2	11.3
315	5746.7	-63.2	-78.2	-74	-4.2	11.3
316	5746.75	-63.2	-78.2	-74	-4.2	11.3
317	5746.8	-63.2	-78.2	-74	-4.2	11.3
318	5746.85	-63.2	-78.2	-74	-4.2	11.3
319	5746.9	-63.2	-78.2	-74	-4.2	11.3
320	5746.95	-63.2	-78.2	-74	-4.2	11.3
321	5747	-63.2	-78.2	-74	-4.2	11.3
322	5747.05	-63.2	-78.2	-74	-4.2	11.3
323	5747.1	-63.2	-78.2	-74	-4.2	11.3
324	5747.15	-63.2	-78.2	-74	-4.2	11.3
325	5747.2	-63.2	-78.2	-74	-4.2	11.3
326	5747.25	-63.2	-78.2	-74	-4.2	11.3
327	5747.3	-63.2	-78.2	-74	-4.2	11.3
328	5747.35	-63.2	-78.2	-74	-4.2	11.3
329	5747.4	-63.2	-78.2	-74	-4.2	11.3
330	5747.45	-63.2	-78.2	-74	-4.2	11.3
331	5747.5	-63.2	-78.2	-74	-4.2	11.3
332	5747.55	-63.2	-78.2	-74	-4.2	11.3
333	5747.6	-63.2	-78.2	-74	-4.2	11.3
334	5747.65	-63.2	-78.2	-74	-4.2	11.3
335	5747.7	-63.2	-78.2	-74	-4.2	11.3
336	5747.75	-63.2	-78.2	-74	-4.2	11.3
337	5747.8	-63.2	-78.2	-74	-4.2	11.3
338	5747.85	-63.2	-78.2	-74	-4.2	11.3
339	5747.9	-63.2	-78.2	-74	-4.2	11.3
340	5747.95	-63.2	-78.2	-74	-4.2	11.3
341	5748	-63.2	-78.2	-74	-4.2	11.3
342	5748.05	-63.2	-78.2	-74	-4.2	11.3
343	5748.1	-63.2	-78.2	-74	-4.2	11.3
344	5748.15	-63.2	-78.2	-74	-4.2	11.3
345	5748.2	-63.2	-78.2	-74	-4.2	11.3
346	5748.25	-63.2	-78.2	-74	-4.2	11.3
347	5748.3	-63.2	-78.2	-74	-4.2	11.3
348	5748.35	-63.2	-78.2	-74	-4.2	11.3
349	5748.4	-63.2	-78.2	-74	-4.2	11.3
350	5748.45	-63.2	-78.2	-74	-4.2	11.3

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
351	5748.5	-63.2	-78.2	-74	-4.2	11.3
352	5748.55	-63.2	-78.2	-74	-4.2	11.3
353	5748.6	-63.2	-78.2	-74	-4.2	11.3
354	5748.65	-63.2	-78.2	-74	-4.2	11.3
355	5748.7	-63.2	-78.2	-74	-4.2	11.3
356	5748.75	-63.2	-78.2	-74	-4.2	11.3
357	5748.8	-63.2	-78.2	-74	-4.2	11.3
358	5748.85	-63.2	-78.2	-74	-4.2	11.3
359	5748.9	-63.2	-78.2	-74	-4.2	11.3
360	5748.95	-63.2	-78.2	-74	-4.2	11.3
361	5749	-63.2	-78.2	-74	-4.2	11.3
362	5749.05	-63.2	-78.2	-74	-4.2	11.3
363	5749.1	-63.2	-78.2	-74	-4.2	11.3
364	5749.15	-63.2	-78.2	-74	-4.2	11.3
365	5749.2	-63.2	-78.2	-74	-4.2	11.3
366	5749.25	-63.2	-78.2	-74	-4.2	11.3
367	5749.3	-63.2	-78.2	-74	-4.2	11.3
368	5749.35	-63.2	-78.2	-74	-4.2	11.3
369	5749.4	-63.2	-78.2	-74	-4.2	11.3
370	5749.45	-63.2	-78.2	-74	-4.2	11.3
371	5749.5	-63.2	-78.2	-74	-4.2	11.3
372	5749.55	-63.2	-78.2	-74	-4.2	11.3
373	5749.6	-63.2	-78.2	-74	-4.2	11.3
374	5749.65	-63.2	-78.2	-74	-4.2	11.3
375	5749.7	-63.2	-78.2	-74	-4.2	11.3
376	5749.75	-63.2	-78.2	-74	-4.2	11.3
377	5749.8	-63.2	-78.2	-74	-4.2	11.3
378	5749.85	-63.2	-78.2	-74	-4.2	11.3
379	5749.9	-63.2	-78.2	-74	-4.2	11.3
380	5749.95	-63.2	-78.2	-74	-4.2	11.3
381	5750	-63.2	-78.2	-74	-4.2	11.3
382	5750.05	-63.2	-78.2	-74	-4.2	11.3
383	5750.1	-63.2	-78.2	-74	-4.2	11.3
384	5750.15	-63.2	-78.2	-74	-4.2	11.3
385	5750.2	-63.2	-78.2	-74	-4.2	11.3
386	5750.25	-63.2	-78.2	-74	-4.2	11.3
387	5750.3	-63.2	-78.2	-74	-4.2	11.3
388	5750.35	-63.2	-78.2	-74	-4.2	11.3
389	5750.4	-63.2	-78.2	-74	-4.2	11.3
390	5750.45	-63.2	-78.2	-74	-4.2	11.3
391	5750.5	-63.2	-78.2	-74	-4.2	11.3
392	5750.55	-63.2	-78.2	-74	-4.2	11.3
393	5750.6	-63.2	-78.2	-74	-4.2	11.3
394	5750.65	-63.2	-78.2	-74	-4.2	11.3
395	5750.7	-63.2	-78.2	-74	-4.2	11.3
396	5750.75	-63.2	-78.2	-74	-4.2	11.3
397	5750.8	-63.2	-78.2	-74	-4.2	11.3
398	5750.85	-63.2	-78.2	-74	-4.2	11.3
399	5750.9	-63.2	-78.2	-74	-4.2	11.3
400	5750.95	-63.2	-78.2	-74	-4.2	11.3

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
401	5751	-63.2	-78.2	-74	-4.2	11.3
402	5751.05	-63.2	-78.2	-74	-4.2	11.3
403	5751.1	-63.2	-78.2	-74	-4.2	11.3
404	5751.15	-63.2	-78.2	-74	-4.2	11.3
405	5751.2	-63.2	-78.2	-74	-4.2	11.3
406	5751.25	-63.2	-78.2	-74	-4.2	11.3
407	5751.3	-63.2	-78.2	-74	-4.2	11.3
408	5751.35	-63.2	-78.2	-74	-4.2	11.3
409	5751.4	-63.2	-78.2	-74	-4.2	11.3
410	5751.45	-63.2	-78.2	-74	-4.2	11.3
411	5751.5	-63.2	-78.2	-74	-4.2	11.3
412	5751.55	-63.2	-78.2	-74	-4.2	11.3
413	5751.6	-63.2	-78.2	-74	-4.2	11.3
414	5751.65	-63.2	-78.2	-74	-4.2	11.3
415	5751.7	-63.2	-78.2	-74	-4.2	11.3
416	5751.75	-63.2	-78.2	-74	-4.2	11.3
417	5751.8	-63.2	-78.2	-74	-4.2	11.3
418	5751.85	-63.2	-78.2	-74	-4.2	11.3
419	5751.9	-63.2	-78.2	-74	-4.2	11.3
420	5751.95	-63.2	-78.2	-74	-4.2	11.3
421	5752	-63.2	-78.2	-74	-4.2	11.3
422	5752.05	-63.2	-78.2	-74	-4.2	11.3
423	5752.1	-63.2	-78.2	-74	-4.2	11.3
424	5752.15	-63.2	-78.2	-74	-4.2	11.3
425	5752.2	-63.2	-78.2	-74	-4.2	11.3
426	5752.25	-62.4	-77.4	-74	-3.4	12.1
427	5752.3	-62.4	-77.4	-74	-3.4	12.1
428	5752.35	-62.4	-77.4	-74	-3.4	12.1
429	5752.4	-62.4	-77.4	-74	-3.4	12.1
430	5752.45	-62.4	-77.4	-74	-3.4	12.1
431	5752.5	-62.4	-77.4	-74	-3.4	12.1
432	5752.55	-62.4	-77.4	-74	-3.4	12.1
433	5752.6	-62.4	-77.4	-74	-3.4	12.1
434	5752.65	-62.4	-77.4	-74	-3.4	12.1
435	5752.7	-62.4	-77.4	-74	-3.4	12.1
436	5752.75	-62.4	-77.4	-74	-3.4	12.1
437	5752.8	-62.4	-77.4	-74	-3.4	12.1
438	5752.85	-62.4	-77.4	-74	-3.4	12.1
439	5752.9	-62.4	-77.4	-74	-3.4	12.1
440	5752.95	-62.4	-77.4	-74	-3.4	12.1
441	5753	-62.4	-77.4	-74	-3.4	12.1
442	5753.05	-62.4	-77.4	-74	-3.4	12.1
443	5753.1	-62.4	-77.4	-74	-3.4	12.1
444	5753.15	-62.4	-77.4	-74	-3.4	12.1
445	5753.2	-62.4	-77.4	-74	-3.4	12.1
446	5753.25	-62.4	-77.4	-74	-3.4	12.1
447	5753.3	-62.4	-77.4	-74	-3.4	12.1
448	5753.35	-62.4	-77.4	-74	-3.4	12.1
449	5753.4	-62.4	-77.4	-74	-3.4	12.1
450	5753.45	-62.4	-77.4	-74	-3.4	12.1

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
451	5753.5	-59.4	-74.4	-74	-0.4	15.1
452	5753.55	-59.4	-74.4	-74	-0.4	15.1
453	5753.6	-59.4	-74.4	-74	-0.4	15.1
454	5753.65	-59.4	-74.4	-74	-0.4	15.1
455	5753.7	-59.4	-74.4	-74	-0.4	15.1
456	5753.75	-59.4	-74.4	-74	-0.4	15.1
457	5753.8	-59.4	-74.4	-74	-0.4	15.1
458	5753.85	-59.4	-74.4	-74	-0.4	15.1
459	5753.9	-59.4	-74.4	-74	-0.4	15.1
460	5753.95	-59.4	-74.4	-74	-0.4	15.1
461	5754	-59.4	-74.4	-74	-0.4	15.1
462	5754.05	-59.4	-74.4	-74	-0.4	15.1
463	5754.1	-59.4	-74.4	-74	-0.4	15.1
464	5754.15	-59.4	-74.4	-74	-0.4	15.1
465	5754.2	-59.4	-74.4	-74	-0.4	15.1
466	5754.25	-59.4	-74.4	-74	-0.4	15.1
467	5754.3	-59.4	-74.4	-74	-0.4	15.1
468	5754.35	-59.4	-74.4	-74	-0.4	15.1
469	5754.4	-54.8	-69.8	-74	4.2	19.7
470	5754.45	-54.8	-69.8	-74	4.2	19.7
471	5754.5	-54.8	-69.8	-74	4.2	19.7
472	5754.55	-53.8	-68.8	-74	5.2	20.7
473	5754.6	-53.8	-68.8	-74	5.2	20.7
474	5754.65	-53.8	-68.8	-74	5.2	20.7
475	5754.7	-53.8	-68.8	-74	5.2	20.7
476	5754.75	-53.8	-68.8	-74	5.2	20.7
477	5754.8	-53.8	-68.8	-74	5.2	20.7
478	5754.85	-53.8	-68.8	-74	5.2	20.7
479	5754.9	-53.8	-68.8	-74	5.2	20.7
480	5754.95	-53.8	-68.8	-74	5.2	20.7
481	5755	-53.8	-68.8	-74	5.2	20.7
482	5755.05	-50.6	-65.6	-74	8.4	23.9
483	5755.1	-50.6	-65.6	-74	8.4	23.9
484	5755.15	-50.6	-65.6	-74	8.4	23.9
485	5755.2	-50.6	-65.6	-74	8.4	23.9
486	5755.25	-50.6	-65.6	-74	8.4	23.9
487	5755.3	-50.6	-65.6	-74	8.4	23.9
488	5755.35	-50.6	-65.6	-74	8.4	23.9
489	5755.4	-50.6	-65.6	-74	8.4	23.9
490	5755.45	-50.6	-65.6	-74	8.4	23.9
491	5755.5	-45.8	-60.8	-74	13.2	28.7
492	5755.55	-45.8	-60.8	-74	13.2	28.7
493	5755.6	-45.8	-60.8	-74	13.2	28.7
494	5755.65	-45.8	-60.8	-74	13.2	28.7
495	5755.7	-45.8	-60.8	-74	13.2	28.7
496	5755.75	-45.8	-60.8	-74	13.2	28.7
497	5755.8	-44.2	-59.2	-74	14.8	30.3
498	5755.85	-44.2	-59.2	-74	14.8	30.3
499	5755.9	-44.2	-59.2	-74	14.8	30.3
500	5755.95	-44.2	-59.2	-74	14.8	30.3

Base Station Unit Processing Gain

Mesur#	Fg Mhz	Pg dBm	Pj dBm	Ps dBm	Pj-Ps	Gp
501	5756	-44.2	-59.2	-74	14.8	30.3
502	5756.05	-44.2	-59.2	-74	14.8	30.3
503	5756.1	-42.6	-57.6	-74	16.4	31.9
504	5756.15	-42.6	-57.6	-74	16.4	31.9
505	5756.2	-41.6	-56.6	-74	17.4	32.9
506	5756.25	-40.3	-55.3	-74	18.7	34.2
507	5756.3	-40.3	-55.3	-74	18.7	34.2
508	5756.35	-40.3	-55.3	-74	18.7	34.2
509	5756.4	-40.3	-55.3	-74	18.7	34.2
510	5756.45	-40.3	-55.3	-74	18.7	34.2
511	5756.5	-40.3	-55.3	-74	18.7	34.2
512	5756.55	-39.4	-54.4	-74	19.6	35.1
513	5756.6	-39.4	-54.4	-74	19.6	35.1
514	5756.65	-38.5	-53.5	-74	20.5	36
515	5756.7	-38.5	-53.5	-74	20.5	36
516	5756.75	-38.5	-53.5	-74	20.5	36
517	5756.8	-38.5	-53.5	-74	20.5	36
518	5756.85	-38.5	-53.5	-74	20.5	36
519	5756.9	-38.5	-53.5	-74	20.5	36
520	5756.95	-38.5	-53.5	-74	20.5	36
521	5757	-38.5	-53.5	-74	20.5	36

Processing Gain

