Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Simulation data (point to point links interfering with PMP systems)**
Date Submitted	**2001-10-30**
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Re:	Amendment to Coexistence Recommended Practice
Abstract	This paper contains the full listings of data from simulations of point to point links interfering with PMP base stations and subscriber stations, used in document IEEE C802.16.2a-01/xxx.
Purpose	For the archive of simulation methods and results.
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Simulation data (point to point links interfering with PMP systems) Interference

Philip Whitehead
Radiant Networks Plc

1. Simulation data

The following data were produced to compile contribution IEEE C802.16.2a-01/ XXX. The information is provided for archiving, to allow full traceability of the simulation work

The first 5 sets of data relate to scenarios 1 to 5 for the PP to PMP BS interference, co – channel, adjacent area.

The second 5 sets of data relate to scenarios 1 to 5 for the PP to PMP SS interference, co – channel, adjacent area.

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1. Created by RECIPE V1.1 on 25 October 2001 at 13:44:18
as C:\My Documents\wpdocs\802.16\Austin_01\log1a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 10
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 20000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 5
subscriber horn gain (dBi) = 36
distance past BS (m) = 1000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at BS

dBm	events	prob	cum prob
-150	138	0.013800	0.197200

-149	125	0.012500	0.209700
-148	113	0.011300	0.221000
-147	127	0.012700	0.233700
-146	152	0.015200	0.248900
-145	162	0.016200	0.265100
-144	189	0.018900	0.284000
-143	186	0.018600	0.302600
-142	223	0.022300	0.324900
-141	214	0.021400	0.346300
-140	234	0.023400	0.369700
-139	368	0.036800	0.406500
-138	525	0.052500	0.459000
-137	602	0.060200	0.519200
-136	611	0.061100	0.580300
-135	578	0.057800	0.638100
-134	443	0.044300	0.682400
-133	361	0.036100	0.718500
-132	269	0.026900	0.745400
-131	212	0.021200	0.766600
-130	154	0.015400	0.782000
-129	160	0.016000	0.798000
-128	174	0.017400	0.815400
-127	188	0.018800	0.834200
-126	153	0.015300	0.849500
-125	115	0.011500	0.861000
-124	217	0.021700	0.882700
-123	224	0.022400	0.905100
-122	120	0.012000	0.917100
-121	73	0.007300	0.924400
-120	47	0.004700	0.929100
-119	33	0.003300	0.932400
-118	41	0.004100	0.936500
-117	29	0.002900	0.939400
-116	25	0.002500	0.941900
-115	38	0.003800	0.945700
-114	23	0.002300	0.948000
-113	33	0.003300	0.951300
-112	29	0.002900	0.954200
-111	34	0.003400	0.957600
-110	30	0.003000	0.960600
-109	32	0.003200	0.963800
-108	32	0.003200	0.967000
-107	29	0.002900	0.969900
-106	30	0.003000	0.972900
-105	78	0.007800	0.980700
-104	127	0.012700	0.993400
-103	57	0.005700	0.999100
-102	5	0.000500	0.999600
-101	3	0.000300	0.999900
-100	1	0.000100	1.000000

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2. Created by RECIPE V1.1 on 25 October 2001 at 13:51:40
as C:\My Documents\wpdocs\802.16\Austin_01\log2a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12

apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 42
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 10
percentage tx = 12.5
node ht above roof (m) = 1
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 24000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 5
subscriber horn gain (dBi) = 36
distance past BS (m) = 1000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at BS

dBm	events	prob	cum prob
-150	138	0.013800	0.471600
-149	132	0.013200	0.484800
-148	114	0.011400	0.496200
-147	123	0.012300	0.508500
-146	186	0.018600	0.527100
-145	192	0.019200	0.546300
-144	186	0.018600	0.564900
-143	162	0.016200	0.581100
-142	184	0.018400	0.599500
-141	174	0.017400	0.616900
-140	216	0.021600	0.638500
-139	350	0.035000	0.673500
-138	439	0.043900	0.717400
-137	448	0.044800	0.762200
-136	443	0.044300	0.806500
-135	331	0.033100	0.839600
-134	181	0.018100	0.857700
-133	154	0.015400	0.873100
-132	87	0.008700	0.881800
-131	90	0.009000	0.890800
-130	74	0.007400	0.898200
-129	69	0.006900	0.905100
-128	93	0.009300	0.914400
-127	76	0.007600	0.922000
-126	66	0.006600	0.928600
-125	58	0.005800	0.934400
-124	104	0.010400	0.944800

-123	131	0.013100	0.957900
-122	59	0.005900	0.963800
-121	22	0.002200	0.966000
-120	24	0.002400	0.968400
-119	19	0.001900	0.970300
-118	14	0.001400	0.971700
-117	18	0.001800	0.973500
-116	12	0.001200	0.974700
-115	12	0.001200	0.975900
-114	10	0.001000	0.976900
-113	19	0.001900	0.978800
-112	14	0.001400	0.980200
-111	15	0.001500	0.981700
-110	10	0.001000	0.982700
-109	14	0.001400	0.984100
-108	12	0.001200	0.985300
-107	17	0.001700	0.987000
-106	9	0.000900	0.987900
-105	26	0.002600	0.990500
-104	69	0.006900	0.997400
-103	23	0.002300	0.999700
-102	2	0.000200	0.999900
-101	0	0.000000	0.999900
-100	1	0.000100	1.000000

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3. Created by RECIPE V1.1 on 25 October 2001 at 13:53:44
as C:\My Documents\wpdocs\802.16\Austin_01\log3a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 42
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 10
percentage tx = 12.5
node ht above roof (m) = 4
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 0
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 32000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 5
subscriber horn gain (dBi) = 36
distance past BS (m) = 1000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none

run length = 10000
Compute at BS

dBm	events	prob	cum prob
-137	1	0.000100	0.000100
-136	2	0.000200	0.000300
-135	0	0.000000	0.000300
-134	7	0.000700	0.001000
-133	15	0.001500	0.002500
-132	47	0.004700	0.007200
-131	66	0.006600	0.013800
-130	129	0.012900	0.026700
-129	187	0.018700	0.045400
-128	248	0.024800	0.070200
-127	276	0.027600	0.097800
-126	342	0.034200	0.132000
-125	504	0.050400	0.182400
-124	575	0.057500	0.239900
-123	602	0.060200	0.300100
-122	538	0.053800	0.353900
-121	462	0.046200	0.400100
-120	363	0.036300	0.436400
-119	260	0.026000	0.462400
-118	247	0.024700	0.487100
-117	229	0.022900	0.510000
-116	248	0.024800	0.534800
-115	242	0.024200	0.559000
-114	229	0.022900	0.581900
-113	246	0.024600	0.606500
-112	229	0.022900	0.629400
-111	263	0.026300	0.655700
-110	257	0.025700	0.681400
-109	239	0.023900	0.705300
-108	581	0.058100	0.763400
-107	1212	0.121200	0.884600
-106	533	0.053300	0.937900
-105	228	0.022800	0.960700
-104	281	0.028100	0.988800
-103	89	0.008900	0.997700
-102	22	0.002200	0.999900
-101	1	0.000100	1.000000

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4. Created by RECIPE V1.1 on 25 October 2001 at 13:57:34
as C:\My Documents\wpdocs\802.16\Austin_01\log4a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 42
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 10
percentage tx = 12.5
node ht above roof (m) = 4

building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 0
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 30000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 5
subscriber horn gain (dBi) = 36
distance past BS (m) = 1000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = storm
rain rate = 32
dB/km = 4.01
min dia (km) = 1
max dia (km) = 3
run length = 10000
Compute at BS

dBm	events	prob	cum prob
-135	1	0.000100	0.000100
-134	4	0.000400	0.000500
-133	10	0.001000	0.001500
-132	21	0.002100	0.003600
-131	71	0.007100	0.010700
-130	113	0.011300	0.022000
-129	182	0.018200	0.040200
-128	243	0.024300	0.064500
-127	307	0.030700	0.095200
-126	314	0.031400	0.126600
-125	407	0.040700	0.167300
-124	551	0.055100	0.222400
-123	553	0.055300	0.277700
-122	498	0.049800	0.327500
-121	450	0.045000	0.372500
-120	404	0.040400	0.412900
-119	305	0.030500	0.443400
-118	281	0.028100	0.471500
-117	252	0.025200	0.496700
-116	241	0.024100	0.520800
-115	286	0.028600	0.549400
-114	260	0.026000	0.575400
-113	253	0.025300	0.600700
-112	259	0.025900	0.626600
-111	283	0.028300	0.654900
-110	256	0.025600	0.680500
-109	277	0.027700	0.708200
-108	266	0.026600	0.734800
-107	699	0.069900	0.804700
-106	1063	0.106300	0.911000
-105	380	0.038000	0.949000
-104	250	0.025000	0.974000

-103	199	0.019900	0.993900
-102	49	0.004900	0.998800
-101	12	0.001200	1.000000

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5. Created by RECIPE V1.1 on 25 October 2001 at 13:59:25
as C:\My Documents\wpdocs\802.16\Austin_01\log5a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 42
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 22000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 5
subscriber horn gain (dBi) = 36
distance past BS (m) = 1000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at BS

dBm	events	prob	cum prob
-150	119	0.011900	0.464000
-149	131	0.013100	0.477100
-148	119	0.011900	0.489000
-147	132	0.013200	0.502200
-146	165	0.016500	0.518700
-145	155	0.015500	0.534200
-144	186	0.018600	0.552800
-143	162	0.016200	0.569000
-142	177	0.017700	0.586700
-141	181	0.018100	0.604800
-140	168	0.016800	0.621600
-139	189	0.018900	0.640500
-138	348	0.034800	0.675300
-137	411	0.041100	0.716400
-136	424	0.042400	0.758800
-135	437	0.043700	0.802500

-134	325	0.032500	0.835000
-133	205	0.020500	0.855500
-132	138	0.013800	0.869300
-131	99	0.009900	0.879200
-130	104	0.010400	0.889600
-129	89	0.008900	0.898500
-128	74	0.007400	0.905900
-127	94	0.009400	0.915300
-126	79	0.007900	0.923200
-125	64	0.006400	0.929600
-124	38	0.003800	0.933400
-123	136	0.013600	0.947000
-122	87	0.008700	0.955700
-121	38	0.003800	0.959500
-120	26	0.002600	0.962100
-119	32	0.003200	0.965300
-118	25	0.002500	0.967800
-117	11	0.001100	0.968900
-116	13	0.001300	0.970200
-115	18	0.001800	0.972000
-114	11	0.001100	0.973100
-113	25	0.002500	0.975600
-112	13	0.001300	0.976900
-111	23	0.002300	0.979200
-110	12	0.001200	0.980400
-109	10	0.001000	0.981400
-108	13	0.001300	0.982700
-107	16	0.001600	0.984300
-106	13	0.001300	0.985600
-105	14	0.001400	0.987000
-104	33	0.003300	0.990300
-103	71	0.007100	0.997400
-102	25	0.002500	0.999900
-101	1	0.000100	1.000000

----------6. Created by RECIPE V1.1 on 25 October 2001 at 14:01:14
as C:\My Documents\wpdocs\802.16\Austin_01\log6a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 15000
BS height (m) = 45

BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 20
subscriber horn gain (dBi) = 36
distance past BS (m) = 2000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at subscriber

dBm	events	prob	cum prob
-150	49	0.004900	0.883700
-149	54	0.005400	0.889100
-148	49	0.004900	0.894000
-147	90	0.009000	0.903000
-146	99	0.009900	0.912900
-145	108	0.010800	0.923700
-144	65	0.006500	0.930200
-143	46	0.004600	0.934800
-142	39	0.003900	0.938700
-141	47	0.004700	0.943400
-140	35	0.003500	0.946900
-139	43	0.004300	0.951200
-138	34	0.003400	0.954600
-137	33	0.003300	0.957900
-136	29	0.002900	0.960800
-135	27	0.002700	0.963500
-134	18	0.001800	0.965300
-133	19	0.001900	0.967200
-132	20	0.002000	0.969200
-131	19	0.001900	0.971100
-130	28	0.002800	0.973900
-129	15	0.001500	0.975400
-128	20	0.002000	0.977400
-127	18	0.001800	0.979200
-126	18	0.001800	0.981000
-125	22	0.002200	0.983200
-124	15	0.001500	0.984700
-123	21	0.002100	0.986800
-122	10	0.001000	0.987800
-121	8	0.000800	0.988600
-120	11	0.001100	0.989700
-119	12	0.001200	0.990900
-118	16	0.001600	0.992500
-117	12	0.001200	0.993700
-116	10	0.001000	0.994700
-115	4	0.000400	0.995100
-114	5	0.000500	0.995600
-113	4	0.000400	0.996000
-112	4	0.000400	0.996400
-111	5	0.000500	0.996900
-110	6	0.000600	0.997500
-109	0	0.000000	0.997500
-108	2	0.000200	0.997700

-107	1	0.000100	0.997800
-106	4	0.000400	0.998200
-105	4	0.000400	0.998600
-104	0	0.000000	0.998600
-103	3	0.000300	0.998900
-102	0	0.000000	0.998900
-101	3	0.000300	0.999200
-100	3	0.000300	0.999500
-99	1	0.000100	0.999600
-98	0	0.000000	0.999600
-97	0	0.000000	0.999600
-96	1	0.000100	0.999700
-95	0	0.000000	0.999700
-94	1	0.000100	0.999800
-93	1	0.000100	0.999900
-92	0	0.000000	0.999900
-91	0	0.000000	0.999900
-90	0	0.000000	0.999900
-89	0	0.000000	0.999900
-88	0	0.000000	0.999900
-87	0	0.000000	0.999900
-86	0	0.000000	0.999900
-85	1	0.000100	1.000000

----------7. Created by RECIPE V1.1 on 25 October 2001 at 14:04:17
as C:\My Documents\wpdocs\802.16\Austin_01\log7a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 15000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 15
subscriber horn gain (dBi) = 36
distance past BS (m) = 2000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none

run length = 10000
Compute at subscriber

dBm	events	prob	cum prob
-150	1	0.000100	0.997200
-149	2	0.000200	0.997400
-148	0	0.000000	0.997400
-147	1	0.000100	0.997500
-146	3	0.000300	0.997800
-145	2	0.000200	0.998000
-144	0	0.000000	0.998000
-143	1	0.000100	0.998100
-142	2	0.000200	0.998300
-141	0	0.000000	0.998300
-140	0	0.000000	0.998300
-139	3	0.000300	0.998600
-138	1	0.000100	0.998700
-137	0	0.000000	0.998700
-136	0	0.000000	0.998700
-135	0	0.000000	0.998700
-134	0	0.000000	0.998700
-133	0	0.000000	0.998700
-132	1	0.000100	0.998800
-131	3	0.000300	0.999100
-130	0	0.000000	0.999100
-129	3	0.000300	0.999400
-128	0	0.000000	0.999400
-127	0	0.000000	0.999400
-126	0	0.000000	0.999400
-125	0	0.000000	0.999400
-124	1	0.000100	0.999500
-123	1	0.000100	0.999600
-122	0	0.000000	0.999600
-121	0	0.000000	0.999600
-120	0	0.000000	0.999600
-119	0	0.000000	0.999600
-118	0	0.000000	0.999600
-117	0	0.000000	0.999600
-116	0	0.000000	0.999600
-115	1	0.000100	0.999700
-114	1	0.000100	0.999800
-113	0	0.000000	0.999800
-112	0	0.000000	0.999800
-111	0	0.000000	0.999800
-110	0	0.000000	0.999800
-109	0	0.000000	0.999800
-108	0	0.000000	0.999800
-107	1	0.000100	0.999900
-106	0	0.000000	0.999900
-105	0	0.000000	0.999900
-104	1	0.000100	1.000000

----------8. Created by RECIPE V1.1 on 25 October 2001 at 14:05:22
as C:\My Documents\wpdocs\802.16\Austin_01\log8a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30

node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 40000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 20
subscriber horn gain (dBi) = 36
distance past BS (m) = 2000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at subscriber

dBm	events	prob	cum prob
-150	8	0.000800	0.986500
-149	2	0.000200	0.986700
-148	9	0.000900	0.987600
-147	8	0.000800	0.988400
-146	6	0.000600	0.989000
-145	6	0.000600	0.989600
-144	4	0.000400	0.990000
-143	8	0.000800	0.990800
-142	10	0.001000	0.991800
-141	4	0.000400	0.992200
-140	3	0.000300	0.992500
-139	7	0.000700	0.993200
-138	4	0.000400	0.993600
-137	3	0.000300	0.993900
-136	6	0.000600	0.994500
-135	5	0.000500	0.995000
-134	4	0.000400	0.995400
-133	7	0.000700	0.996100
-132	5	0.000500	0.996600
-131	2	0.000200	0.996800
-130	3	0.000300	0.997100
-129	4	0.000400	0.997500
-128	7	0.000700	0.998200
-127	3	0.000300	0.998500
-126	2	0.000200	0.998700
-125	1	0.000100	0.998800

-124	0	0.000000	0.998800
-123	0	0.000000	0.998800
-122	0	0.000000	0.998800
-121	1	0.000100	0.998900
-120	0	0.000000	0.998900
-119	0	0.000000	0.998900
-118	0	0.000000	0.998900
-117	1	0.000100	0.999000
-116	1	0.000100	0.999100
-115	0	0.000000	0.999100
-114	1	0.000100	0.999200
-113	1	0.000100	0.999300
-112	1	0.000100	0.999400
-111	0	0.000000	0.999400
-110	0	0.000000	0.999400
-109	1	0.000100	0.999500
-108	0	0.000000	0.999500
-107	0	0.000000	0.999500
-106	2	0.000200	0.999700
-105	1	0.000100	0.999800
-104	0	0.000000	0.999800
-103	1	0.000100	0.999900
-102	0	0.000000	0.999900
-101	0	0.000000	0.999900
-100	0	0.000000	0.999900
-99	1	0.000100	1.000000

----------9. Created by RECIPE V1.1 on 25 October 2001 at 14:06:07
as C:\My Documents\wpdocs\802.16\Austin_01\log9a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 50000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 25
subscriber horn gain (dBi) = 36
distance past BS (m) = 2000
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5

dB/km = 0.14
polarisation = vertical
rain = none
run length = 10000
Compute at subscriber

dBm	events	prob	cum prob
-150	46	0.004600	0.909700
-149	51	0.005100	0.914800
-148	40	0.004000	0.918800
-147	46	0.004600	0.923400
-146	41	0.004100	0.927500
-145	37	0.003700	0.931200
-144	44	0.004400	0.935600
-143	32	0.003200	0.938800
-142	38	0.003800	0.942600
-141	32	0.003200	0.945800
-140	42	0.004200	0.950000
-139	31	0.003100	0.953100
-138	43	0.004300	0.957400
-137	31	0.003100	0.960500
-136	46	0.004600	0.965100
-135	30	0.003000	0.968100
-134	37	0.003700	0.971800
-133	45	0.004500	0.976300
-132	36	0.003600	0.979900
-131	22	0.002200	0.982100
-130	26	0.002600	0.984700
-129	17	0.001700	0.986400
-128	11	0.001100	0.987500
-127	15	0.001500	0.989000
-126	6	0.000600	0.989600
-125	8	0.000800	0.990400
-124	11	0.001100	0.991500
-123	7	0.000700	0.992200
-122	8	0.000800	0.993000
-121	6	0.000600	0.993600
-120	4	0.000400	0.994000
-119	10	0.001000	0.995000
-118	10	0.001000	0.996000
-117	0	0.000000	0.996000
-116	4	0.000400	0.996400
-115	3	0.000300	0.996700
-114	1	0.000100	0.996800
-113	1	0.000100	0.996900
-112	1	0.000100	0.997000
-111	3	0.000300	0.997300
-110	4	0.000400	0.997700
-109	2	0.000200	0.997900
-108	5	0.000500	0.998400
-107	1	0.000100	0.998500
-106	3	0.000300	0.998800
-105	1	0.000100	0.998900
-104	1	0.000100	0.999000
-103	1	0.000100	0.999100
-102	1	0.000100	0.999200
-101	2	0.000200	0.999400
-100	0	0.000000	0.999400

-99 3 0.000300 0.999700
-98 3 0.000300 1.000000

----------10. Created by
RECIPE V1.1 on 25 October 2001 at 14:14:02
as C:\My Documents\wpdocs\802.16\Austin_01\log10a.txt

frequency (GHz) = 25
node max tx pwr (dBm) = 30
node min tx pwr (dBm) = -12
apc step size (dB) = 4
half power beamwidth (deg) = 4.3
mesh horn gain (dBi) = 40
node rx pwr (dBm) = -73
mesh tot Y-dim (m) = 10000
mesh X-dim (m) = 5000
node density (/sq km) = 5
percentage tx = 12.5
node ht above roof (m) = 3
building density (/sq km) = 750
fractional building area = 0.1
terrain parameter (m) = 7
min link (m) = 50
max link (m) = 5000
distance to BS (m) = 10000
BS height (m) = 45
BS sector (deg) = 90
BS horn gain (dBi) = 19
subscriber height (m) = 10
subscriber horn gain (dBi) = 36
distance past BS (m) = 2500
air temp (deg C) = 15
pressure (mbar) = 1013
water vapour (gm/cu m) = 7.5
dB/km = 0.14
polarisation = vertical
rain = none
run length = 100000
Compute at subscriber

dBm events prob cum prob

[there are no entries because all data are below –150 dBm]

END of data

END of data