

Mode	Operation Band	Max gain	Isolation	Difference	Limit	Result
		dB	dB	dB	dB	
Downlink	AWS-1	57.47	+5	11.11	12	Compliance
			+4	11.77	12	Compliance
			+3	11.80	12	Compliance
			+2	7.83	12	Compliance
			+1	9.61	12	Compliance
			+0	9.56	12	Compliance
			-1	/	12	Compliance
			-2	/	12	Compliance
			-3	/	12	Compliance
			-4	/	12	Compliance
	-5	/	12	Compliance		
	PCS	56.66	+5	7.95	12	Compliance
			+4	8.21	12	Compliance
			+3	8.25	12	Compliance
			+2	8.65	12	Compliance
			+1	8.94	12	Compliance
			+0	9.1	12	Compliance
			-1	/	12	Compliance
			-2	/	12	Compliance
			-3	/	12	Compliance
-4			/	12	Compliance	
-5	/	12	Compliance			

Note: "/" means that booster is shut down.

12 - RADIATED SPURIOUS EMISSIONS

Applicable Standards

According to § 2.1053 *Measurements required: Field strength of spurious radiation.*

Test Procedure

This procedure is intended to satisfy the requirements specified in Section 2.1053. The applicable limits are those specified for mobile station emissions in the rule part appropriate to the band of operation (see Appendix A).

Separate compliance requirements are applicable for any digital device circuitry that controls additional functions or capabilities and that is not used only to enable operation of the transmitter in a booster device [i.e., Section 15.3(k) digital device definition]. Separate compliance requirements are applicable for any receiver components/functions that tune within 30 MHz to 960 MHz contained in booster devices [Section 15.101(b)].

- a) Place the EUT on an OATS or semi-anechoic chamber turntable 3 m from the receiving antenna.
- b) Connect the EUT to the test equipment as shown in **Figure 10** beginning with the uplink output (donor) port.
- c) Set the signal generator to produce a CW signal with the frequency set to the center of the operational band under test, and the power level set at PIN as determined from measurement results per 7.2.
- d) Measure the radiated spurious emissions from the EUT from the lowest to the highest frequencies as specified in Section 2.1057. Maximize the radiated emissions by using the procedures described in ANSI C63.26.
- e) Capture the peak emissions plots using a peak detector with Max-Hold for inclusion in the test report. Tabular data is acceptable in lieu of spectrum analyzer plots.
- f) Repeat 7.12c) through 7.12e) for all uplink and downlink operational bands.

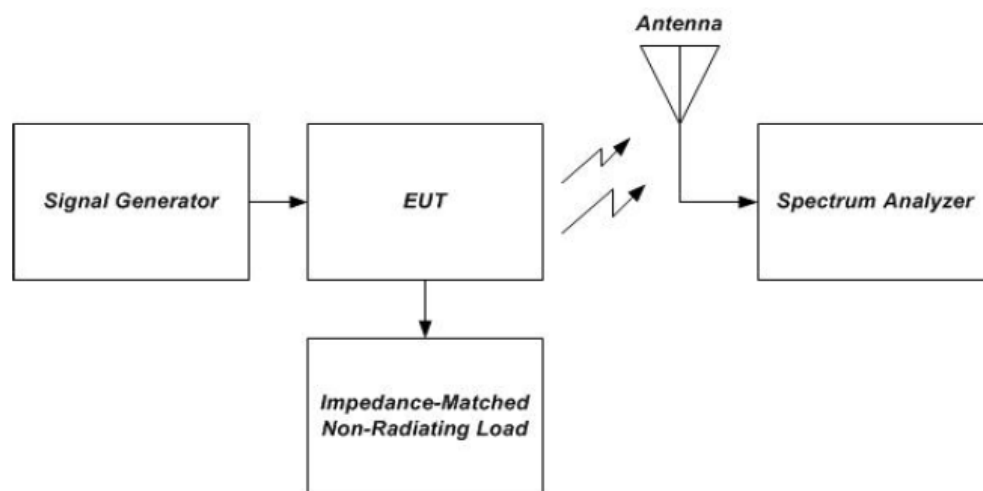


Figure 10 – Radiated spurious emissions test instrumentation setup

Test Data

Test Result: Compliance. Please refer to following tables.

Uplink:

Frequency (MHz)	Polar (H / V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Lower 700MHz Band, Test Frequency 698.2MHz								
57.40	H	46.35	-60.25	-11.50	0.22	-71.97	-19.00	52.97
39.10	H	56.33	-36.35	-25.97	0.22	-62.54	-19.00	43.54
1396.40	H	36.69	-66.71	8.97	1.20	-58.94	-19.00	39.94
1396.40	V	36.89	-67.13	8.97	1.20	-59.36	-19.00	40.36
2094.60	H	38.12	-63.98	11.43	1.10	-53.65	-19.00	34.65
2094.60	V	36.45	-65.67	11.43	1.10	-55.34	-19.00	36.34
2792.80	H	37.51	-64.23	13.10	1.35	-52.48	-19.00	33.48
2792.80	V	36.66	-65.27	13.10	1.35	-53.52	-19.00	34.52
3491.00	H	36.24	-62.82	13.83	1.61	-50.60	-19.00	31.60
3491.00	V	36.26	-62.80	13.83	1.61	-50.58	-19.00	31.58
4189.20	H	37.17	-60.53	13.97	1.58	-48.14	-19.00	29.14
4189.20	V	37.13	-60.55	13.97	1.58	-48.16	-19.00	29.16
4887.40	H	38.36	-57.58	13.95	1.48	-45.11	-19.00	26.11
4887.40	V	36.69	-58.38	13.95	1.48	-45.91	-19.00	26.91
5585.60	H	37.75	-55.79	14.06	1.28	-43.01	-19.00	24.01
5585.60	V	36.90	-56.49	14.06	1.28	-43.71	-19.00	24.71
6283.80	H	36.48	-55.69	13.53	1.56	-43.72	-19.00	24.72
6283.80	V	36.50	-55.75	13.53	1.56	-43.78	-19.00	24.78
6982.00	H	35.26	-55.28	13.54	1.82	-43.56	-19.00	24.56
6982.00	V	35.14	-55.23	13.54	1.82	-43.51	-19.00	24.51
Lower 700MHz Band, Test Frequency 707 MHz								
117.70	H	49.03	-54.75	0.00	0.30	-55.05	-19.00	36.05
89.70	V	57.86	-55.20	0.00	0.36	-55.56	-19.00	36.56
1414.00	H	36.88	-66.71	9.07	1.22	-58.86	-19.00	39.86
1414.00	V	40.07	-64.05	9.07	1.22	-56.20	-19.00	37.20
2121.00	H	36.69	-65.33	11.27	1.11	-55.17	-19.00	36.17
2121.00	V	36.26	-65.73	11.27	1.11	-55.57	-19.00	36.57
2828.00	H	35.58	-65.86	13.32	1.36	-53.90	-19.00	34.90
2828.00	V	36.45	-65.22	13.32	1.36	-53.26	-19.00	34.26
3535.00	H	36.33	-62.69	13.91	1.57	-50.35	-19.00	31.35
3535.00	V	36.57	-62.45	13.91	1.57	-50.11	-19.00	31.11
4242.00	H	37.02	-60.66	13.96	1.24	-47.94	-19.00	28.94
4242.00	V	40.21	-57.47	13.96	1.24	-44.75	-19.00	25.75
4949.00	H	36.83	-59.19	13.95	1.45	-46.69	-19.00	27.69
4949.00	V	36.40	-58.99	13.95	1.45	-46.49	-19.00	27.49
5656.00	H	35.72	-57.96	13.99	1.32	-45.29	-19.00	26.29
5656.00	V	36.59	-56.99	13.99	1.32	-44.32	-19.00	25.32
6363.00	H	36.47	-55.64	13.56	1.61	-43.69	-19.00	24.69
6363.00	V	36.71	-55.48	13.56	1.61	-43.53	-19.00	24.53
7070.00	H	36.27	-53.95	13.29	1.76	-42.42	-19.00	23.42
7070.00	V	36.35	-53.79	13.29	1.76	-42.26	-19.00	23.26
Lower 700MHz Band, Test Frequency 715.8 MHz								
89.70	H	48.69	-62.01	0.00	0.36	-62.37	-19.00	43.37
89.70	V	57.05	-56.01	0.00	0.36	-56.37	-19.00	37.37
1431.60	H	36.84	-67.01	9.16	1.25	-59.10	-19.00	40.10
1431.60	V	37.71	-66.58	9.16	1.25	-58.67	-19.00	39.67
2147.40	H	36.42	-65.54	11.12	1.12	-55.54	-19.00	36.54
2147.40	V	36.71	-65.20	11.12	1.12	-55.20	-19.00	36.20
2863.20	H	36.75	-64.34	13.61	1.35	-52.08	-19.00	33.08
2863.20	V	36.75	-64.60	13.61	1.35	-52.34	-19.00	33.34

3579.00	H	36.55	-62.48	14.04	1.52	-49.96	-19.00	30.96
3579.00	V	36.23	-62.80	14.04	1.52	-50.28	-19.00	31.28
4294.80	H	36.52	-61.20	13.91	0.78	-48.07	-19.00	29.07
4294.80	V	36.35	-61.41	13.91	0.78	-48.28	-19.00	29.28
5010.60	H	35.87	-60.11	13.99	1.43	-47.55	-19.00	28.55
5010.60	V	36.79	-58.96	13.99	1.43	-46.40	-19.00	27.40
5726.40	H	37.21	-56.52	13.95	1.32	-43.89	-19.00	24.89
5726.40	V	36.58	-57.12	13.95	1.32	-44.49	-19.00	25.49
6442.20	H	36.59	-55.46	13.56	1.66	-43.56	-19.00	24.56
6442.20	V	36.24	-55.89	13.56	1.66	-43.99	-19.00	24.99
7158.00	H	36.02	-53.87	13.03	1.67	-42.51	-19.00	23.51
7158.00	V	36.71	-53.22	13.03	1.67	-41.86	-19.00	22.86
Upper 700MHz Band, Test Frequency 776.2MHz								
213.20	H	45.28	-63.52	0.00	0.49	-64.01	-19.00	45.01
91.10	V	57.79	-55.13	0.00	0.35	-55.48	-19.00	36.48
1552.40	H	37.55	-67.19	9.81	1.00	-58.38	-19.00	39.38
1552.40	V	40.07	-65.03	9.81	1.00	-56.22	-19.00	37.22
2328.60	H	36.38	-65.86	11.51	1.25	-55.60	-19.00	36.60
2328.60	V	36.49	-65.73	11.51	1.25	-55.47	-19.00	36.47
3104.80	H	36.35	-63.52	13.22	1.82	-52.12	-19.00	33.12
3104.80	V	35.91	-63.96	13.22	1.82	-52.56	-19.00	33.56
3881.00	H	36.26	-60.52	13.44	1.52	-48.60	-19.00	29.60
3881.00	V	37.12	-59.57	13.44	1.52	-47.65	-19.00	28.65
4657.20	H	36.71	-60.45	14.31	1.75	-47.89	-19.00	28.89
4657.20	V	36.28	-60.98	14.31	1.75	-48.42	-19.00	29.42
5433.40	H	36.52	-57.67	14.00	1.38	-45.05	-19.00	26.05
5433.40	V	36.24	-57.88	14.00	1.38	-45.26	-19.00	26.26
6209.60	H	36.89	-55.33	13.68	1.52	-43.17	-19.00	24.17
6209.60	V	36.25	-56.06	13.68	1.52	-43.90	-19.00	24.90
6985.80	H	38.62	-51.90	13.53	1.83	-40.20	-19.00	21.20
6985.80	V	36.65	-53.71	13.53	1.83	-42.01	-19.00	23.01
7762.00	H	34.19	-55.07	13.34	1.51	-43.24	-19.00	24.24
7762.00	V	34.81	-54.72	13.34	1.51	-42.89	-19.00	23.89
Upper 700MHz Band, Test Frequency 781.5 MHz								
39.10	H	50.99	-41.69	-25.97	0.22	-67.88	-19.00	48.88
91.10	V	57.90	-55.02	0.00	0.35	-55.37	-19.00	36.37
1563.00	H	37.61	-67.10	9.88	0.93	-58.15	-46.00	12.15
1563.00	V	40.14	-64.99	9.88	0.93	-56.04	-46.00	10.04
2344.50	H	36.44	-65.85	11.69	1.26	-55.42	-19.00	36.42
2344.50	V	36.55	-65.77	11.69	1.26	-55.34	-19.00	36.34
3126.00	H	36.41	-63.19	13.30	1.76	-51.65	-19.00	32.65
3126.00	V	35.97	-63.65	13.30	1.76	-52.11	-19.00	33.11
3907.50	H	36.32	-60.38	13.45	1.51	-48.44	-19.00	29.44
3907.50	V	37.18	-59.46	13.45	1.51	-47.52	-19.00	28.52
4689.00	H	36.77	-60.44	14.38	1.69	-47.75	-19.00	28.75
4689.00	V	36.34	-60.96	14.38	1.69	-48.27	-19.00	29.27
5470.50	H	36.58	-57.83	13.89	1.30	-45.24	-19.00	26.24
5470.50	V	36.30	-57.99	13.89	1.30	-45.40	-19.00	26.40
6252.00	H	36.95	-55.24	13.60	1.54	-43.18	-19.00	24.18
6252.00	V	36.31	-55.97	13.60	1.54	-43.91	-19.00	24.91
7033.50	H	38.69	-51.67	13.40	1.80	-40.07	-19.00	21.07
7033.50	V	36.71	-53.52	13.40	1.80	-41.92	-19.00	22.92
7815.00	H	34.25	-55.15	13.29	1.55	-43.41	-19.00	24.41
7815.00	V	34.87	-54.75	13.29	1.55	-43.01	-19.00	24.01
Upper 700MHz Band, Test Frequency 786.8 MHz								
89.70	H	49.57	-61.13	0.00	0.36	-61.49	-19.00	42.49
49.00	V	55.45	-44.30	-15.88	0.21	-60.39	-19.00	41.39
1573.60	H	37.66	-67.04	9.94	0.86	-57.96	-46.00	11.96
1573.60	V	40.18	-64.98	9.94	0.86	-55.90	-46.00	9.90

2360.40	H	36.48	-65.86	11.86	1.27	-55.27	-19.00	36.27
2360.40	V	36.59	-65.83	11.86	1.27	-55.24	-19.00	36.24
3147.20	H	36.45	-62.88	13.39	1.71	-51.20	-19.00	32.20
3147.20	V	36.01	-63.35	13.39	1.71	-51.67	-19.00	32.67
3934.00	H	36.36	-60.56	13.60	1.50	-48.46	-19.00	29.46
3934.00	V	37.22	-59.67	13.60	1.50	-47.57	-19.00	28.57
4720.80	H	36.81	-60.19	14.38	1.65	-47.46	-19.00	28.46
4720.80	V	36.38	-60.72	14.38	1.65	-47.99	-19.00	28.99
5507.60	H	36.62	-57.87	13.82	1.24	-45.29	-19.00	26.29
5507.60	V	36.34	-58.00	13.82	1.24	-45.42	-19.00	26.42
6294.40	H	36.99	-55.17	13.51	1.57	-43.23	-19.00	24.23
6294.40	V	36.35	-55.89	13.51	1.57	-43.95	-19.00	24.95
7081.20	H	38.73	-51.45	13.26	1.75	-39.94	-19.00	20.94
7081.20	V	36.75	-53.36	13.26	1.75	-41.85	-19.00	22.85
7868.00	H	34.29	-55.24	13.23	1.59	-43.60	-19.00	24.60
7868.00	V	34.91	-54.80	13.23	1.59	-43.16	-19.00	24.16
Cellular Band, Test Frequency 824.2MHz								
58.80	H	47.53	-59.42	-10.85	0.23	-70.50	-19.00	51.50
92.50	V	58.91	-54.02	0.00	0.34	-54.36	-19.00	35.36
1648.40	H	36.93	-67.25	10.44	0.71	-57.52	-19.00	38.52
1648.40	V	37.41	-67.37	10.44	0.71	-57.64	-19.00	38.64
2472.60	H	36.47	-66.31	12.88	1.25	-54.68	-19.00	35.68
2472.60	V	36.75	-66.08	12.88	1.25	-54.45	-19.00	35.45
3296.80	H	37.14	-62.64	13.60	1.59	-50.63	-19.00	31.63
3296.80	V	36.29	-63.50	13.60	1.59	-51.49	-19.00	32.49
4121.00	H	35.92	-62.11	13.76	1.40	-49.75	-19.00	30.75
4121.00	V	37.02	-61.11	13.76	1.40	-48.75	-19.00	29.75
4945.20	H	35.85	-60.16	13.95	1.45	-47.66	-19.00	28.66
4945.20	V	36.24	-59.11	13.95	1.45	-46.61	-19.00	27.61
5769.40	H	36.88	-56.54	14.04	1.28	-43.78	-19.00	24.78
5769.40	V	36.31	-57.12	14.04	1.28	-44.36	-19.00	25.36
6593.60	H	36.62	-55.10	13.59	1.72	-43.23	-19.00	24.23
6593.60	V	36.37	-55.39	13.59	1.72	-43.52	-19.00	24.52
7417.80	H	35.46	-53.47	13.28	1.40	-41.59	-19.00	22.59
7417.80	V	35.24	-54.07	13.28	1.40	-42.19	-19.00	23.19
8242.00	H	34.36	-55.23	13.43	1.81	-43.61	-19.00	24.61
8242.00	V	34.21	-55.45	13.43	1.81	-43.83	-19.00	24.83
Cellular Band, Test Frequency 836.5 MHz								
169.70	H	46.69	-61.70	0.00	0.42	-62.12	-19.00	43.12
39.10	V	54.76	-31.14	-25.97	0.22	-57.33	-19.00	38.33
1673.00	H	36.99	-66.95	10.61	0.73	-57.07	-19.00	38.07
1673.00	V	37.47	-67.07	10.61	0.73	-57.19	-19.00	38.19
2509.50	H	36.52	-66.39	13.11	1.25	-54.53	-19.00	35.53
2509.50	V	36.81	-66.13	13.11	1.25	-54.27	-19.00	35.27
3346.00	H	37.20	-62.48	13.83	1.61	-50.26	-19.00	31.26
3346.00	V	36.34	-63.38	13.83	1.61	-51.16	-19.00	32.16
4182.50	H	35.97	-61.76	13.95	1.56	-49.37	-19.00	30.37
4182.50	V	37.08	-60.65	13.95	1.56	-48.26	-19.00	29.26
5019.00	H	35.90	-59.96	13.98	1.41	-47.39	-19.00	28.39
5019.00	V	36.29	-59.34	13.98	1.41	-46.77	-19.00	27.77
5855.50	H	36.94	-55.72	14.04	1.57	-43.25	-19.00	24.25
5855.50	V	36.36	-56.35	14.04	1.57	-43.88	-19.00	24.88
6692.00	H	36.67	-54.75	13.69	1.74	-42.80	-19.00	23.80
6692.00	V	36.42	-54.98	13.69	1.74	-43.03	-19.00	24.03
7528.50	H	35.51	-53.18	13.20	1.34	-41.32	-19.00	22.32
7528.50	V	35.29	-53.86	13.20	1.34	-42.00	-19.00	23.00
8365.00	H	34.41	-55.04	13.73	1.87	-43.18	-19.00	24.18
8365.00	V	34.26	-55.26	13.73	1.87	-43.40	-19.00	24.40

Cellular Band, Test Frequency 848.8 MHz								
117.70	H	43.68	-60.10	0.00	0.30	-60.40	-19.00	41.40
44.70	V	56.47	-36.34	-20.20	0.21	-56.75	-19.00	37.75
1697.60	H	37.02	-66.68	10.78	0.75	-56.65	-19.00	37.65
1697.60	V	37.50	-66.80	10.78	0.75	-56.77	-19.00	37.77
2546.40	H	36.56	-66.39	13.15	1.27	-54.51	-19.00	35.51
2546.40	V	36.84	-66.25	13.15	1.27	-54.37	-19.00	35.37
3395.20	H	37.23	-62.30	14.08	1.64	-49.86	-19.00	30.86
3395.20	V	36.38	-63.24	14.08	1.64	-50.80	-19.00	31.80
4244.00	H	36.01	-61.67	13.96	1.22	-48.93	-19.00	29.93
4244.00	V	37.11	-60.57	13.96	1.22	-47.83	-19.00	28.83
5092.80	H	35.94	-58.84	13.91	1.31	-46.24	-19.00	27.24
5092.80	V	36.33	-58.27	13.91	1.31	-45.67	-19.00	26.67
5941.60	H	36.97	-55.32	13.96	1.64	-43.00	-19.00	24.00
5941.60	V	36.40	-55.97	13.96	1.64	-43.65	-19.00	24.65
6790.40	H	36.71	-54.41	13.61	1.77	-42.57	-19.00	23.57
6790.40	V	36.46	-54.60	13.61	1.77	-42.76	-19.00	23.76
7639.20	H	35.55	-53.42	13.28	1.42	-41.56	-19.00	22.56
7639.20	V	35.32	-54.01	13.28	1.42	-42.15	-19.00	23.15
8488.00	H	34.44	-54.88	13.89	1.92	-42.91	-19.00	23.91
8488.00	V	34.29	-55.10	13.89	1.92	-43.13	-19.00	24.13
AWS-1 Band, Test Frequency 1710.2 MHz								
210.40	H	44.31	-64.45	0.00	0.49	-64.94	-19.00	45.94
92.50	V	57.50	-55.43	0.00	0.34	-55.77	-19.00	36.77
3420.40	H	36.12	-63.29	14.04	1.63	-50.88	-19.00	31.88
3420.40	V	36.95	-62.54	14.04	1.63	-50.13	-19.00	31.13
5130.60	H	35.27	-59.41	13.93	1.37	-46.85	-19.00	27.85
5130.60	V	35.99	-58.59	13.93	1.37	-46.03	-19.00	27.03
6840.80	H	36.75	-54.22	13.64	1.79	-42.37	-19.00	23.37
6840.80	V	35.74	-55.14	13.64	1.79	-43.29	-19.00	24.29
8551.00	H	35.34	-53.83	13.90	1.91	-41.84	-19.00	22.84
8551.00	V	35.11	-54.22	13.90	1.91	-42.23	-19.00	23.23
10261.20	H	35.28	-51.84	13.68	0.48	-38.64	-19.00	19.64
10261.20	V	35.02	-51.69	13.68	0.48	-38.49	-19.00	19.49
11971.40	H	35.67	-51.65	12.97	1.91	-40.59	-19.00	21.59
11971.40	V	35.26	-51.10	12.97	1.91	-40.04	-19.00	21.04
13681.60	H	35.32	-50.60	12.34	2.06	-40.32	-19.00	21.32
13681.60	V	35.12	-52.63	12.34	2.06	-42.35	-19.00	23.35
15391.80	H	35.61	-52.84	16.98	1.14	-37.00	-19.00	18.00
15391.80	V	35.36	-51.42	16.98	1.14	-35.58	-19.00	16.58
17102.00	H	35.21	-48.53	13.69	1.16	-36.00	-19.00	17.00
17102.00	V	35.75	-48.10	13.69	1.16	-35.57	-19.00	16.57
AWS-1 Band, Test Frequency 1732.5 MHz								
58.80	H	44.25	-62.70	-10.85	0.23	-73.78	-19.00	54.78
46.10	V	56.77	-38.22	-18.72	0.21	-57.15	-19.00	38.15
3465.00	H	36.17	-63.01	13.91	1.62	-50.72	-19.00	31.72
3465.00	V	37.01	-62.21	13.91	1.62	-49.92	-19.00	30.92
5197.50	H	35.32	-59.37	14.00	1.52	-46.89	-19.00	27.89
5197.50	V	36.04	-58.72	14.00	1.52	-46.24	-19.00	27.24
6930.00	H	36.81	-53.89	13.64	1.81	-42.06	-19.00	23.06
6930.00	V	35.79	-54.77	13.64	1.81	-42.94	-19.00	23.94
8662.50	H	35.39	-53.46	13.71	1.88	-41.63	-19.00	22.63
8662.50	V	35.16	-54.05	13.71	1.88	-42.22	-19.00	23.22
10395.00	H	35.33	-51.74	13.41	0.37	-38.70	-19.00	19.70
10395.00	V	35.07	-51.38	13.41	0.37	-38.34	-19.00	19.34
12127.50	H	35.72	-51.23	13.20	1.56	-39.59	-19.00	20.59
12127.50	V	35.31	-51.20	13.20	1.56	-39.56	-19.00	20.56
13860.00	H	35.37	-50.49	12.14	2.22	-40.57	-19.00	21.57
13860.00	V	35.17	-52.50	12.14	2.22	-42.58	-19.00	23.58

15592.50	H	35.66	-53.56	17.29	1.32	-37.59	-19.00	18.59
15592.50	V	35.41	-51.79	17.29	1.32	-35.82	-19.00	16.82
17325.00	H	35.26	-46.65	13.43	1.61	-34.83	-19.00	15.83
17325.00	V	35.80	-46.03	13.43	1.61	-34.21	-19.00	15.21
AWS-1 Band, Test Frequency 1754.8 MHz								
117.70	H	44.02	-59.76	0.00	0.30	-60.06	-19.00	41.06
168.30	V	44.85	-67.42	0.00	0.42	-67.84	-19.00	48.84
3509.60	H	36.20	-62.81	13.83	1.60	-50.58	-19.00	31.58
3509.60	V	37.03	-61.98	13.83	1.60	-49.75	-19.00	30.75
5264.40	H	35.35	-59.75	14.19	1.29	-46.85	-19.00	27.85
5264.40	V	36.07	-59.11	14.19	1.29	-46.21	-19.00	27.21
7019.20	H	36.83	-53.58	13.44	1.81	-41.95	-19.00	22.95
7019.20	V	35.82	-54.45	13.44	1.81	-42.82	-19.00	23.82
8774.00	H	35.42	-53.13	13.60	1.85	-41.38	-19.00	22.38
8774.00	V	35.19	-53.90	13.60	1.85	-42.15	-19.00	23.15
10528.80	H	35.36	-51.68	13.21	0.31	-38.78	-19.00	19.78
10528.80	V	35.10	-51.17	13.21	0.31	-38.27	-19.00	19.27
12283.60	H	35.75	-50.80	13.28	1.13	-38.65	-19.00	19.65
12283.60	V	35.34	-51.36	13.28	1.13	-39.21	-19.00	20.21
14038.40	H	35.40	-50.30	12.45	2.31	-40.16	-19.00	21.16
14038.40	V	35.20	-52.36	12.45	2.31	-42.22	-19.00	23.22
15793.20	H	35.69	-53.91	17.41	1.73	-38.23	-19.00	19.23
15793.20	V	35.44	-51.88	17.41	1.73	-36.20	-19.00	17.20
17548.00	H	35.29	-44.78	13.02	2.02	-33.78	-19.00	14.78
17548.00	V	35.83	-43.72	13.02	2.02	-32.72	-19.00	13.72
PCS Band, Test Frequency 1850.2MHz								
51.80	H	51.55	-53.66	-14.07	0.21	-67.94	-19.00	48.94
925.00	V	56.89	-41.04	0.00	0.97	-42.01	-19.00	23.01
3700.40	H	37.59	-60.40	14.00	1.83	-48.23	-19.00	29.23
3700.40	V	36.33	-61.64	14.00	1.83	-49.47	-19.00	30.47
5550.60	H	36.38	-57.59	13.95	1.27	-44.91	-19.00	25.91
5550.60	V	38.03	-55.79	13.95	1.27	-43.11	-19.00	24.11
7400.80	H	35.58	-53.41	13.30	1.42	-41.53	-19.00	22.53
7400.80	V	35.06	-54.29	13.30	1.42	-42.41	-19.00	23.41
9251.00	H	36.27	-51.55	13.60	1.87	-39.82	-19.00	20.82
9251.00	V	35.83	-52.71	13.60	1.87	-40.98	-19.00	21.98
11101.20	H	36.19	-51.05	12.80	1.01	-39.26	-19.00	20.26
11101.20	V	35.77	-50.65	12.80	1.01	-38.86	-19.00	19.86
12951.40	H	34.78	-50.91	12.50	0.26	-38.67	-19.00	19.67
12951.40	V	33.96	-53.44	12.50	0.26	-41.20	-19.00	22.20
14801.60	H	35.86	-49.58	14.41	1.49	-36.66	-19.00	17.66
14801.60	V	35.21	-50.82	14.41	1.49	-37.90	-19.00	18.90
16651.80	H	37.28	-48.83	15.35	1.92	-35.40	-19.00	16.40
16651.80	V	36.03	-49.44	15.35	1.92	-36.01	-19.00	17.01
PCS Band, Test Frequency 1882.5MHz								
91.10	H	50.76	-59.32	0.00	0.35	-59.67	-19.00	40.67
46.10	V	56.30	-38.69	-18.72	0.21	-57.62	-19.00	38.62
3765.00	H	37.77	-59.84	13.74	1.62	-47.72	-19.00	28.72
3765.00	V	36.51	-60.95	13.74	1.62	-48.83	-19.00	29.83
5647.50	H	36.56	-57.08	14.01	1.31	-44.38	-19.00	25.38
5647.50	V	38.21	-55.31	14.01	1.31	-42.61	-19.00	23.61
7530.00	H	35.71	-52.98	13.20	1.34	-41.12	-19.00	22.12
7530.00	V	35.24	-53.92	13.20	1.34	-42.06	-19.00	23.06
9412.50	H	36.45	-51.31	13.31	1.92	-39.92	-19.00	20.92
9412.50	V	36.01	-52.33	13.31	1.92	-40.94	-19.00	21.94
11295.00	H	36.37	-51.19	12.90	1.37	-39.66	-19.00	20.66
11295.00	V	35.95	-50.40	12.90	1.37	-38.87	-19.00	19.87
13177.50	H	34.96	-50.81	12.40	0.82	-39.23	-19.00	20.23
13177.50	V	34.14	-53.44	12.40	0.82	-41.86	-19.00	22.86
15060.00	H	36.04	-50.53	15.68	1.18	-36.03	-19.00	17.03

15060.00	V	35.39	-50.24	15.68	1.18	-35.74	-19.00	16.74
16942.50	H	37.46	-47.37	14.43	1.11	-34.05	-19.00	15.05
16942.50	V	36.21	-48.68	14.43	1.11	-35.36	-19.00	16.36
PCS Band, Test Frequency 1914.8MHz								
44.70	H	51.23	-47.59	-20.20	0.21	-68.00	-19.00	49.00
39.10	V	56.03	-29.87	-25.97	0.22	-56.06	-19.00	37.06
3829.60	H	37.68	-59.50	13.54	1.51	-47.47	-19.00	28.47
3829.60	V	36.42	-60.59	13.54	1.51	-48.56	-19.00	29.56
5744.40	H	36.47	-57.13	13.99	1.30	-44.44	-19.00	25.44
5744.40	V	38.12	-55.46	13.99	1.30	-42.77	-19.00	23.77
7659.20	H	35.67	-53.34	13.32	1.44	-41.46	-19.00	22.46
7659.20	V	35.15	-54.22	13.32	1.44	-42.34	-19.00	23.34
9574.00	H	36.36	-51.29	13.47	1.77	-39.59	-19.00	20.59
9574.00	V	35.92	-52.16	13.47	1.77	-40.46	-19.00	21.46
11488.80	H	36.28	-51.59	13.00	1.74	-40.33	-19.00	21.33
11488.80	V	35.86	-50.42	13.00	1.74	-39.16	-19.00	20.16
13403.60	H	34.87	-51.04	12.30	1.58	-40.32	-19.00	21.32
13403.60	V	34.05	-53.71	12.30	1.58	-42.99	-19.00	23.99
15318.40	H	35.95	-52.08	16.76	1.15	-36.47	-19.00	17.47
15318.40	V	35.35	-51.17	16.76	1.15	-35.56	-19.00	16.56
17233.20	H	37.37	-45.30	13.33	1.42	-33.39	-19.00	14.39
17233.20	V	36.12	-46.54	13.33	1.42	-34.63	-19.00	15.63

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit - Absolute Level

Downlink:

Frequency (MHz)	Polar (H / V)	Receiver Reading (dBµV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Lower 700MHz Band, Test Frequency 728.2MHz								
209.00	H	46.14	-62.61	0.00	0.49	-63.10	-19.00	44.10
49.00	V	59.95	-39.80	-15.88	0.21	-55.89	-19.00	36.89
1456.40	H	38.36	-65.85	9.28	1.28	-57.85	-19.00	38.85
1456.40	V	37.49	-67.04	9.28	1.28	-59.04	-19.00	40.04
2184.60	H	38.26	-63.62	10.89	1.13	-53.86	-19.00	34.86
2184.60	V	38.21	-63.59	10.89	1.13	-53.83	-19.00	34.83
2912.80	H	37.44	-63.14	13.91	1.37	-50.60	-19.00	31.60
2912.80	V	36.84	-64.02	13.91	1.37	-51.48	-19.00	32.48
3641.00	H	36.25	-62.35	14.06	1.64	-49.93	-19.00	30.93
3641.00	V	36.26	-62.34	14.06	1.64	-49.92	-19.00	30.92
4369.20	H	36.37	-61.23	13.90	1.51	-48.84	-19.00	29.84
4369.20	V	36.15	-61.37	13.90	1.51	-48.98	-19.00	29.98
5097.40	H	36.85	-57.86	13.90	1.30	-45.26	-19.00	26.26
5097.40	V	36.47	-58.07	13.90	1.30	-45.47	-19.00	26.47
5825.60	H	35.62	-57.32	14.07	1.40	-44.65	-19.00	25.65
5825.60	V	36.02	-56.98	14.07	1.40	-44.31	-19.00	25.31
6553.80	H	35.12	-56.73	13.55	1.71	-44.89	-19.00	25.89
6553.80	V	35.64	-56.26	13.55	1.71	-44.42	-19.00	25.42
7282.00	H	35.78	-53.65	13.15	1.54	-42.04	-19.00	23.04
7282.00	V	35.11	-54.52	13.15	1.54	-42.91	-19.00	23.91
Lower 700MHz Band, Test Frequency 737 MHz								
110.70	H	44.40	-60.40	0.00	0.28	-60.68	-19.00	41.68
40.50	V	57.84	-29.83	-25.74	0.21	-55.78	-19.00	36.78
1474.00	H	36.89	-67.58	9.37	1.31	-59.52	-19.00	40.52
1474.00	V	37.26	-67.44	9.37	1.31	-59.38	-19.00	40.38
2211.00	H	37.21	-64.67	10.84	1.15	-54.98	-19.00	35.98
2211.00	V	35.97	-65.81	10.84	1.15	-56.12	-19.00	37.12
2948.00	H	36.34	-63.84	13.95	1.42	-51.31	-19.00	32.31
2948.00	V	36.55	-63.88	13.95	1.42	-51.35	-19.00	32.35
3685.00	H	36.43	-61.72	14.02	1.78	-49.48	-19.00	30.48
3685.00	V	36.57	-61.56	14.02	1.78	-49.32	-19.00	30.32
4422.00	H	37.21	-60.28	13.94	1.79	-48.13	-19.00	29.13
4422.00	V	36.99	-60.37	13.94	1.79	-48.22	-19.00	29.22
5159.00	H	36.21	-58.47	13.96	1.44	-45.95	-19.00	26.95
5159.00	V	36.25	-58.41	13.96	1.44	-45.89	-19.00	26.89
5896.00	H	36.76	-55.51	14.00	1.80	-43.31	-19.00	24.31
5896.00	V	36.31	-56.03	14.00	1.80	-43.83	-19.00	24.83
6633.00	H	36.54	-55.06	13.63	1.73	-43.16	-19.00	24.16
6633.00	V	36.23	-55.39	13.63	1.73	-43.49	-19.00	24.49
7370.00	H	35.97	-53.13	13.27	1.45	-41.31	-19.00	22.31
7370.00	V	35.62	-53.80	13.27	1.45	-41.98	-19.00	22.98
Lower 700MHz Band, Test Frequency 745.8 MHz								
39.10	H	43.84	-48.84	-25.97	0.22	-75.03	-19.00	56.03
91.10	V	53.21	-59.71	0.00	0.35	-60.06	-19.00	41.06
1491.60	H	37.69	-67.04	9.46	1.34	-58.92	-19.00	39.92
1491.60	V	40.37	-64.50	9.46	1.34	-56.38	-19.00	37.38
2237.40	H	35.23	-66.73	10.95	1.17	-56.95	-19.00	37.95
2237.40	V	35.53	-66.33	10.95	1.17	-56.55	-19.00	37.55
2983.20	H	36.46	-63.32	13.98	1.47	-50.81	-19.00	31.81
2983.20	V	36.71	-63.29	13.98	1.47	-50.78	-19.00	31.78
3729.00	H	37.78	-60.04	13.88	1.73	-47.89	-19.00	28.89
3729.00	V	37.65	-60.09	13.88	1.73	-47.94	-19.00	28.94
4474.80	H	37.26	-60.12	14.05	1.62	-47.69	-19.00	28.69
4474.80	V	37.02	-60.22	14.05	1.62	-47.79	-19.00	28.79

5220.60	H	36.48	-58.34	14.06	1.45	-45.73	-19.00	26.73
5220.60	V	36.98	-57.92	14.06	1.45	-45.31	-19.00	26.31
5966.40	H	36.52	-55.81	13.93	1.53	-43.41	-19.00	24.41
5966.40	V	36.46	-55.95	13.93	1.53	-43.55	-19.00	24.55
6712.20	H	36.35	-55.01	13.69	1.75	-43.07	-19.00	24.07
6712.20	V	36.11	-55.22	13.69	1.75	-43.28	-19.00	24.28
7458.00	H	35.77	-53.01	13.24	1.36	-41.13	-19.00	22.13
7458.00	V	35.71	-53.50	13.24	1.36	-41.62	-19.00	22.62
Upper 700MHz Band, Test Frequency 746.2MHz								
53.20	H	52.27	-53.29	-13.43	0.22	-66.94	-19.00	47.94
53.20	V	58.49	-44.82	-13.43	0.22	-58.47	-19.00	39.47
1492.40	H	37.21	-67.53	9.46	1.34	-59.41	-19.00	40.41
1492.40	V	36.65	-68.23	9.46	1.34	-60.11	-19.00	41.11
2238.60	H	36.17	-65.80	10.95	1.17	-56.02	-19.00	37.02
2238.60	V	40.77	-61.10	10.95	1.17	-51.32	-19.00	32.32
2984.80	H	36.79	-62.97	13.98	1.48	-50.47	-19.00	31.47
2984.80	V	36.74	-63.24	13.98	1.48	-50.74	-19.00	31.74
3731.00	H	36.58	-61.23	13.88	1.73	-49.08	-19.00	30.08
3731.00	V	36.49	-61.24	13.88	1.73	-49.09	-19.00	30.09
4477.20	H	35.51	-61.87	14.05	1.61	-49.43	-19.00	30.43
4477.20	V	36.09	-61.14	14.05	1.61	-48.70	-19.00	29.70
5223.40	H	36.30	-58.54	14.07	1.44	-45.91	-19.00	26.91
5223.40	V	35.91	-59.01	14.07	1.44	-46.38	-19.00	27.38
5969.60	H	37.07	-55.26	13.93	1.52	-42.85	-19.00	23.85
5969.60	V	36.34	-56.08	13.93	1.52	-43.67	-19.00	24.67
6715.80	H	35.98	-55.37	13.68	1.75	-43.44	-19.00	24.44
6715.80	V	35.23	-56.09	13.68	1.75	-44.16	-19.00	25.16
7462.00	H	34.86	-53.90	13.24	1.36	-42.02	-19.00	23.02
7462.00	V	36.12	-53.08	13.24	1.36	-41.20	-19.00	22.20
Upper 700MHz Band, Test Frequency 751.5 MHz								
49.00	H	51.20	-52.44	-15.88	0.21	-68.53	-19.00	49.53
89.70	V	53.88	-59.18	0.00	0.36	-59.54	-19.00	40.54
1503.00	H	37.25	-67.59	9.52	1.33	-59.40	-19.00	40.40
1503.00	V	36.69	-68.26	9.52	1.33	-60.07	-19.00	41.07
2254.50	H	36.21	-65.80	11.02	1.19	-55.97	-19.00	36.97
2254.50	V	40.82	-61.09	11.02	1.19	-51.26	-19.00	32.26
3006.00	H	36.83	-62.78	13.95	1.52	-50.35	-19.00	31.35
3006.00	V	36.78	-63.01	13.95	1.52	-50.58	-19.00	31.58
3757.50	H	36.62	-61.03	13.77	1.64	-48.90	-19.00	29.90
3757.50	V	36.53	-60.99	13.77	1.64	-48.86	-19.00	29.86
4509.00	H	35.55	-61.75	14.11	1.57	-49.21	-19.00	30.21
4509.00	V	36.13	-61.05	14.11	1.57	-48.51	-19.00	29.51
5260.50	H	36.34	-58.73	14.18	1.30	-45.85	-19.00	26.85
5260.50	V	35.95	-59.20	14.18	1.30	-46.32	-19.00	27.32
6012.00	H	37.11	-55.26	13.86	1.40	-42.80	-19.00	23.80
6012.00	V	36.38	-56.08	13.86	1.40	-43.62	-19.00	24.62
6763.50	H	36.02	-55.18	13.64	1.76	-43.30	-19.00	24.30
6763.50	V	35.27	-55.88	13.64	1.76	-44.00	-19.00	25.00
7515.00	H	34.90	-53.76	13.20	1.33	-41.89	-19.00	22.89
7515.00	V	36.16	-52.97	13.20	1.33	-41.10	-19.00	22.10
Upper 700MHz Band, Test Frequency 756.8 MHz								
40.50	H	50.32	-43.94	-25.74	0.21	-69.89	-19.00	50.89
47.50	V	58.38	-38.91	-17.35	0.21	-56.47	-19.00	37.47
1513.60	H	37.27	-67.55	9.58	1.26	-59.23	-19.00	40.23
1513.60	V	36.71	-68.28	9.58	1.26	-59.96	-19.00	40.96
2270.40	H	36.23	-65.83	11.08	1.20	-55.95	-19.00	36.95
2270.40	V	40.84	-61.12	11.08	1.20	-51.24	-19.00	32.24
3027.20	H	36.85	-62.83	13.78	1.59	-50.64	-19.00	31.64
3027.20	V	36.80	-63.03	13.78	1.59	-50.84	-19.00	31.84

3784.00	H	36.64	-60.85	13.66	1.55	-48.74	-19.00	29.74
3784.00	V	36.55	-60.76	13.66	1.55	-48.65	-19.00	29.65
4540.80	H	35.57	-61.65	14.14	1.67	-49.18	-19.00	30.18
4540.80	V	36.15	-61.02	14.14	1.67	-48.55	-19.00	29.55
5297.60	H	36.36	-58.94	14.29	1.16	-45.81	-19.00	26.81
5297.60	V	35.97	-59.41	14.29	1.16	-46.28	-19.00	27.28
6054.40	H	37.13	-55.21	13.74	1.42	-42.89	-19.00	23.89
6054.40	V	36.40	-56.03	13.74	1.42	-43.71	-19.00	24.71
6811.20	H	36.04	-55.02	13.61	1.78	-43.19	-19.00	24.19
6811.20	V	35.29	-55.69	13.61	1.78	-43.86	-19.00	24.86
7568.00	H	34.92	-53.87	13.20	1.37	-42.04	-19.00	23.04
7568.00	V	36.18	-53.04	13.20	1.37	-41.21	-19.00	22.21
Cellular Band, Test Frequency 869.2MHz								
206.20	H	47.64	-61.07	0.00	0.49	-61.56	-19.00	42.56
91.10	V	53.43	-59.49	0.00	0.35	-59.84	-19.00	40.84
1738.40	H	37.07	-66.85	10.92	0.72	-56.65	-19.00	37.65
1738.40	V	37.55	-66.97	10.92	0.72	-56.77	-19.00	37.77
2607.60	H	36.61	-66.32	13.19	1.31	-54.44	-19.00	35.44
2607.60	V	36.89	-66.33	13.19	1.31	-54.45	-19.00	35.45
3476.80	H	37.28	-61.85	13.87	1.62	-49.60	-19.00	30.60
3476.80	V	36.42	-62.72	13.87	1.62	-50.47	-19.00	31.47
4346.00	H	36.05	-61.58	13.90	1.25	-48.93	-19.00	29.93
4346.00	V	37.16	-60.45	13.90	1.25	-47.80	-19.00	28.80
5215.20	H	35.98	-58.80	14.05	1.47	-46.22	-19.00	27.22
5215.20	V	36.37	-58.49	14.05	1.47	-45.91	-19.00	26.91
6084.40	H	37.02	-55.30	13.65	1.44	-43.09	-19.00	24.09
6084.40	V	36.44	-55.96	13.65	1.44	-43.75	-19.00	24.75
6953.60	H	36.76	-53.87	13.59	1.82	-42.10	-19.00	23.10
6953.60	V	36.50	-53.97	13.59	1.82	-42.20	-19.00	23.20
7822.80	H	35.59	-53.82	13.28	1.56	-42.10	-19.00	23.10
7822.80	V	35.37	-54.26	13.28	1.56	-42.54	-19.00	23.54
8692.00	H	34.49	-54.29	13.62	1.87	-42.54	-19.00	23.54
8692.00	V	34.34	-54.84	13.62	1.87	-43.09	-19.00	24.09
Cellular Band, Test Frequency 881.5 MHz								
54.60	H	45.23	-60.68	-12.78	0.22	-73.68	-19.00	54.68
40.50	V	57.39	-30.28	-25.74	0.21	-56.23	-19.00	37.23
1763.00	H	37.08	-66.98	10.99	0.71	-56.70	-19.00	37.70
1763.00	V	37.56	-67.10	10.99	0.71	-56.82	-19.00	37.82
2644.50	H	36.62	-65.92	13.16	1.28	-54.04	-19.00	35.04
2644.50	V	36.90	-65.85	13.16	1.28	-53.97	-19.00	34.97
3526.00	H	37.29	-61.72	13.88	1.58	-49.42	-19.00	30.42
3526.00	V	36.44	-62.58	13.88	1.58	-50.28	-19.00	31.28
4407.50	H	36.07	-61.46	13.92	1.84	-49.38	-19.00	30.38
4407.50	V	37.17	-60.22	13.92	1.84	-48.14	-19.00	29.14
5289.00	H	36.00	-59.25	14.27	1.19	-46.17	-19.00	27.17
5289.00	V	36.39	-58.94	14.27	1.19	-45.86	-19.00	26.86
6170.50	H	37.03	-55.22	13.67	1.49	-43.04	-19.00	24.04
6170.50	V	36.46	-55.88	13.67	1.49	-43.70	-19.00	24.70
7052.00	H	36.77	-53.52	13.34	1.78	-41.96	-19.00	22.96
7052.00	V	36.52	-53.67	13.34	1.78	-42.11	-19.00	23.11
7933.50	H	35.61	-54.08	13.27	1.64	-42.45	-19.00	23.45
7933.50	V	35.38	-54.43	13.27	1.64	-42.80	-19.00	23.80
8815.00	H	34.50	-53.93	13.62	1.84	-42.15	-19.00	23.15
8815.00	V	34.35	-54.70	13.62	1.84	-42.92	-19.00	23.92
Cellular Band, Test Frequency 893.8 MHz								
214.60	H	46.79	-62.03	0.00	0.49	-62.52	-19.00	43.52
47.50	V	58.41	-38.88	-17.35	0.21	-56.44	-19.00	37.44
1787.60	H	37.11	-67.10	11.06	0.69	-56.73	-19.00	37.73
1787.60	V	37.59	-67.22	11.06	0.69	-56.85	-19.00	37.85

2681.40	H	36.65	-65.50	13.12	1.26	-53.64	-19.00	34.64
2681.40	V	36.93	-65.35	13.12	1.26	-53.49	-19.00	34.49
3575.20	H	37.32	-61.70	14.03	1.53	-49.20	-19.00	30.20
3575.20	V	36.47	-62.56	14.03	1.53	-50.06	-19.00	31.06
4469.00	H	36.10	-61.30	14.04	1.64	-48.90	-19.00	29.90
4469.00	V	37.20	-60.05	14.04	1.64	-47.65	-19.00	28.65
5362.80	H	36.03	-58.47	14.17	1.34	-45.64	-19.00	26.64
5362.80	V	36.42	-58.08	14.17	1.34	-45.25	-19.00	26.25
6256.60	H	37.06	-55.13	13.59	1.54	-43.08	-19.00	24.08
6256.60	V	36.49	-55.79	13.59	1.54	-43.74	-19.00	24.74
7150.40	H	36.80	-53.12	13.05	1.68	-41.75	-19.00	22.75
7150.40	V	36.55	-53.40	13.05	1.68	-42.03	-19.00	23.03
8044.20	H	35.63	-54.17	13.36	1.71	-42.52	-19.00	23.52
8044.20	V	35.41	-54.46	13.36	1.71	-42.81	-19.00	23.81
8938.00	H	34.53	-53.55	13.74	1.80	-41.61	-19.00	22.61
8938.00	V	34.38	-54.54	13.74	1.80	-42.60	-19.00	23.60
AWS-1 Band, Test Frequency 2110.2 MHz								
47.50	H	50.73	-51.23	-17.35	0.21	-68.79	-19.00	49.79
47.80	V	58.47	-39.31	-17.06	0.21	-56.58	-19.00	37.58
4220.40	H	36.21	-61.45	13.98	1.43	-48.90	-19.00	29.90
4220.40	V	37.05	-60.60	13.98	1.43	-48.05	-19.00	29.05
6330.60	H	35.36	-56.77	13.53	1.59	-44.83	-19.00	25.83
6330.60	V	36.08	-56.14	13.53	1.59	-44.20	-19.00	25.20
8440.80	H	36.85	-52.53	13.84	1.90	-40.59	-19.00	21.59
8440.80	V	35.83	-53.61	13.84	1.90	-41.67	-19.00	22.67
10551.00	H	35.43	-51.60	13.15	0.34	-38.79	-19.00	19.79
10551.00	V	35.20	-51.08	13.15	0.34	-38.27	-19.00	19.27
12661.20	H	35.37	-50.51	13.14	0.43	-37.80	-19.00	18.80
12661.20	V	35.11	-52.01	13.14	0.43	-39.30	-19.00	20.30
14771.40	H	35.76	-49.55	14.31	1.54	-36.78	-19.00	17.78
14771.40	V	35.35	-50.77	14.31	1.54	-38.00	-19.00	19.00
16881.60	H	35.41	-49.69	14.69	1.28	-36.28	-19.00	17.28
16881.60	V	35.21	-49.80	14.69	1.28	-36.39	-19.00	17.39
AWS-1 Band, Test Frequency 2132.5 MHz								
91.50	H	49.87	-60.04	0.00	0.35	-60.39	-19.00	41.39
39.40	V	55.25	-31.04	-26.11	0.21	-57.36	-19.00	38.36
4265.00	H	36.22	-61.47	13.94	1.04	-48.57	-19.00	29.57
4265.00	V	37.05	-60.66	13.94	1.04	-47.76	-19.00	28.76
6397.50	H	35.37	-56.72	13.60	1.63	-44.75	-19.00	25.75
6397.50	V	36.09	-56.08	13.60	1.63	-44.11	-19.00	25.11
8530.00	H	36.85	-52.37	13.90	1.92	-40.39	-19.00	21.39
8530.00	V	35.84	-53.51	13.90	1.92	-41.53	-19.00	22.53
10662.50	H	35.44	-51.61	13.06	0.46	-39.01	-19.00	20.01
10662.50	V	35.21	-51.12	13.06	0.46	-38.52	-19.00	19.52
12795.00	H	35.38	-50.42	12.82	0.35	-37.95	-19.00	18.95
12795.00	V	35.12	-52.13	12.82	0.35	-39.66	-19.00	20.66
14927.50	H	35.77	-50.17	15.21	1.30	-36.26	-19.00	17.26
14927.50	V	35.36	-50.28	15.21	1.30	-36.37	-19.00	17.37
17060.00	H	35.42	-48.67	13.90	1.07	-35.84	-19.00	16.84
17060.00	V	35.22	-49.01	13.90	1.07	-36.18	-19.00	17.18
AWS-1 Band, Test Frequency 2154.8 MHz								
210.40	H	47.97	-60.79	0.00	0.49	-61.28	-19.00	42.28
90.20	V	52.58	-60.33	0.00	0.36	-60.69	-19.00	41.69
4309.60	H	36.22	-61.48	13.90	0.84	-48.42	-19.00	29.42
4309.60	V	37.06	-60.68	13.90	0.84	-47.62	-19.00	28.62
6464.40	H	35.37	-56.66	13.54	1.67	-44.79	-19.00	25.79
6464.40	V	36.09	-56.02	13.54	1.67	-44.15	-19.00	25.15
8619.20	H	36.86	-52.12	13.84	1.89	-40.17	-19.00	21.17
8619.20	V	35.84	-53.41	13.84	1.89	-41.46	-19.00	22.46

10774.00	H	35.44	-51.61	13.10	0.58	-39.09	-19.00	20.09
10774.00	V	35.21	-51.16	13.10	0.58	-38.64	-19.00	19.64
12928.80	H	35.38	-50.32	12.50	0.27	-38.09	-19.00	19.09
12928.80	V	35.12	-52.26	12.50	0.27	-40.03	-19.00	21.03
15083.60	H	35.77	-50.93	15.75	1.18	-36.36	-19.00	17.36
15083.60	V	35.36	-50.35	15.75	1.18	-35.78	-19.00	16.78
17238.40	H	35.42	-47.20	13.34	1.43	-35.29	-19.00	16.29
17238.40	V	35.22	-47.39	13.34	1.43	-35.48	-19.00	16.48
PCS Band, Test Frequency 1930.2MHz								
183.70	H	46.47	-63.09	0.00	0.45	-63.54	-19.00	44.54
51.80	V	58.42	-44.05	-14.07	0.21	-58.33	-19.00	39.33
3860.40	H	36.34	-60.60	13.48	1.51	-48.63	-19.00	29.63
3860.40	V	36.43	-60.39	13.48	1.51	-48.42	-19.00	29.42
5790.60	H	36.88	-56.38	14.08	1.26	-43.56	-19.00	24.56
5790.60	V	36.61	-56.69	14.08	1.26	-43.87	-19.00	24.87
7720.80	H	35.91	-53.25	13.38	1.48	-41.35	-19.00	22.35
7720.80	V	34.56	-54.91	13.38	1.48	-43.01	-19.00	24.01
9651.00	H	35.44	-52.14	13.50	1.57	-40.21	-19.00	21.21
9651.00	V	35.01	-52.91	13.50	1.57	-40.98	-19.00	21.98
11581.20	H	35.06	-52.73	12.84	1.79	-41.68	-19.00	22.68
11581.20	V	35.31	-50.98	12.84	1.79	-39.93	-19.00	20.93
13511.40	H	35.82	-50.15	12.37	1.91	-39.69	-19.00	20.69
13511.40	V	36.31	-51.51	12.37	1.91	-41.05	-19.00	22.05
15441.60	H	36.02	-52.71	17.08	1.14	-36.77	-19.00	17.77
15441.60	V	34.84	-52.11	17.08	1.14	-36.17	-19.00	17.17
17371.80	H	34.79	-46.74	13.47	1.70	-34.97	-19.00	15.97
17371.80	V	37.65	-43.76	13.47	1.70	-31.99	-19.00	12.99
PCS Band, Test Frequency 1962.5MHz								
54.60	H	45.89	-60.02	-12.78	0.22	-73.02	-19.00	54.02
91.10	V	53.82	-59.10	0.00	0.35	-59.45	-19.00	40.45
3925.00	H	36.12	-60.73	13.55	1.50	-48.68	-19.00	29.68
3925.00	V	36.21	-60.60	13.55	1.50	-48.55	-19.00	29.55
5887.50	H	36.66	-55.69	14.01	1.75	-43.43	-19.00	24.43
5887.50	V	36.39	-56.03	14.01	1.75	-43.77	-19.00	24.77
7850.00	H	35.69	-53.79	13.25	1.58	-42.12	-19.00	23.12
7850.00	V	34.34	-55.34	13.25	1.58	-43.67	-19.00	24.67
9812.50	H	35.22	-52.19	13.49	1.17	-39.87	-19.00	20.87
9812.50	V	34.79	-52.80	13.49	1.17	-40.48	-19.00	21.48
11775.00	H	34.84	-52.72	12.78	1.85	-41.79	-19.00	22.79
11775.00	V	35.09	-51.23	12.78	1.85	-40.30	-19.00	21.30
13737.50	H	35.60	-50.30	12.33	2.11	-40.08	-19.00	21.08
13737.50	V	36.09	-51.64	12.33	2.11	-41.42	-19.00	22.42
15700.00	H	35.82	-53.60	17.60	1.54	-37.54	-19.00	18.54
15700.00	V	34.62	-52.64	17.60	1.54	-36.58	-19.00	17.58
17662.50	H	34.57	-44.50	12.16	2.16	-34.50	-19.00	15.50
17662.50	V	37.43	-40.45	12.16	2.16	-30.45	-19.00	11.45
PCS Band, Test Frequency 1994.8MHz								
107.90	H	44.29	-60.92	0.00	0.28	-61.20	-19.00	42.20
40.50	V	58.13	-29.54	-25.74	0.21	-55.49	-19.00	36.49
3989.60	H	36.21	-61.17	13.94	1.46	-48.69	-19.00	29.69
3989.60	V	36.30	-61.12	13.94	1.46	-48.64	-19.00	29.64
5984.40	H	36.75	-55.61	13.92	1.46	-43.15	-19.00	24.15
5984.40	V	36.48	-55.96	13.92	1.46	-43.50	-19.00	24.50
7979.20	H	35.78	-54.02	13.36	1.67	-42.33	-19.00	23.33
7979.20	V	34.43	-55.46	13.36	1.67	-43.77	-19.00	24.77
9974.00	H	35.31	-51.94	13.47	0.77	-39.24	-19.00	20.24
9974.00	V	34.88	-52.37	13.47	0.77	-39.67	-19.00	20.67
11968.80	H	34.93	-52.40	12.97	1.91	-41.34	-19.00	22.34
11968.80	V	35.18	-51.18	12.97	1.91	-40.12	-19.00	21.12

13963.60	H	35.69	-50.14	12.23	2.31	-40.22	-19.00	21.22
13963.60	V	36.18	-51.45	12.23	2.31	-41.53	-19.00	22.53
15958.40	H	35.89	-54.00	17.46	2.07	-38.61	-19.00	19.61
15958.40	V	34.71	-52.70	17.46	2.07	-37.31	-19.00	18.31
17953.20	H	34.66	-41.89	11.53	2.52	-32.88	-19.00	13.88
17953.20	V	37.52	-36.11	11.53	2.52	-27.10	-19.00	8.10

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit - Absolute Level

******* END OF REPORT *******