

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	新大陆
	CS P/N(客户机种)	U2000 H=89mm
	PART NAME(品名)	4G 外置天线
	FREQUENCY(频率)	617-960MHz, 1420-2690MHz。
	ZTX NO.(物料编号)	E.22.00131
	DATE(日期)	2025-7-28

Remark(备注):

Sign(客户确认签字盖章):

ZHONG TIAN XUN TECHNOLOGY CO., LTD		
ME CHECKED	RF CHECKED	APPROVAL
胡小良	钟祥浩	王而栋



福州中天迅通信技术有限公司

ZHONGTIAN XUN Communication Technology Co.,Ltd.

总部地址:深圳市宝安区石岩街道石龙大道 34 号 (原腾达工业园) 邮编: 518000

福州地址: 福建省福州市仓山区金山工业区桔园洲园 45 号楼 2 层 SC02 单元 邮编: 350000

电话: 0591-83582969

传真: 0591-83583660

<http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N : U2000 H=89mm 4G 外置天线

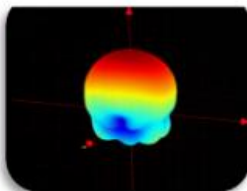
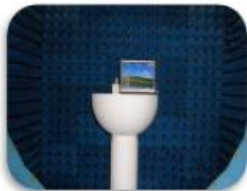
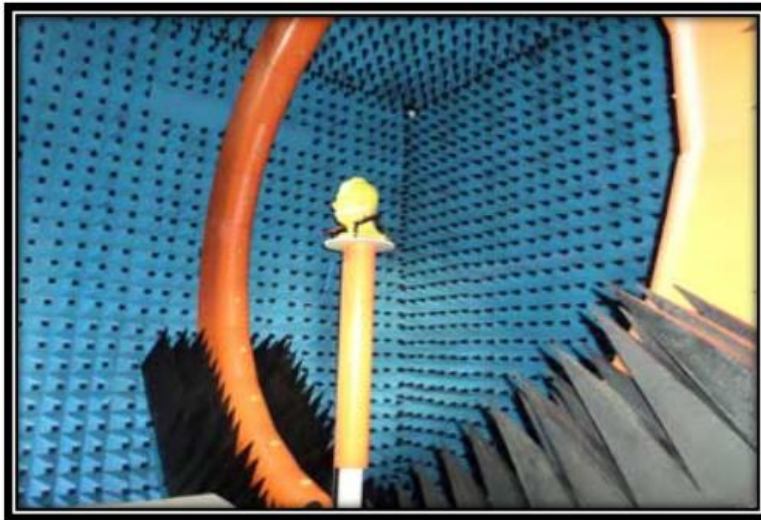
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Editor:

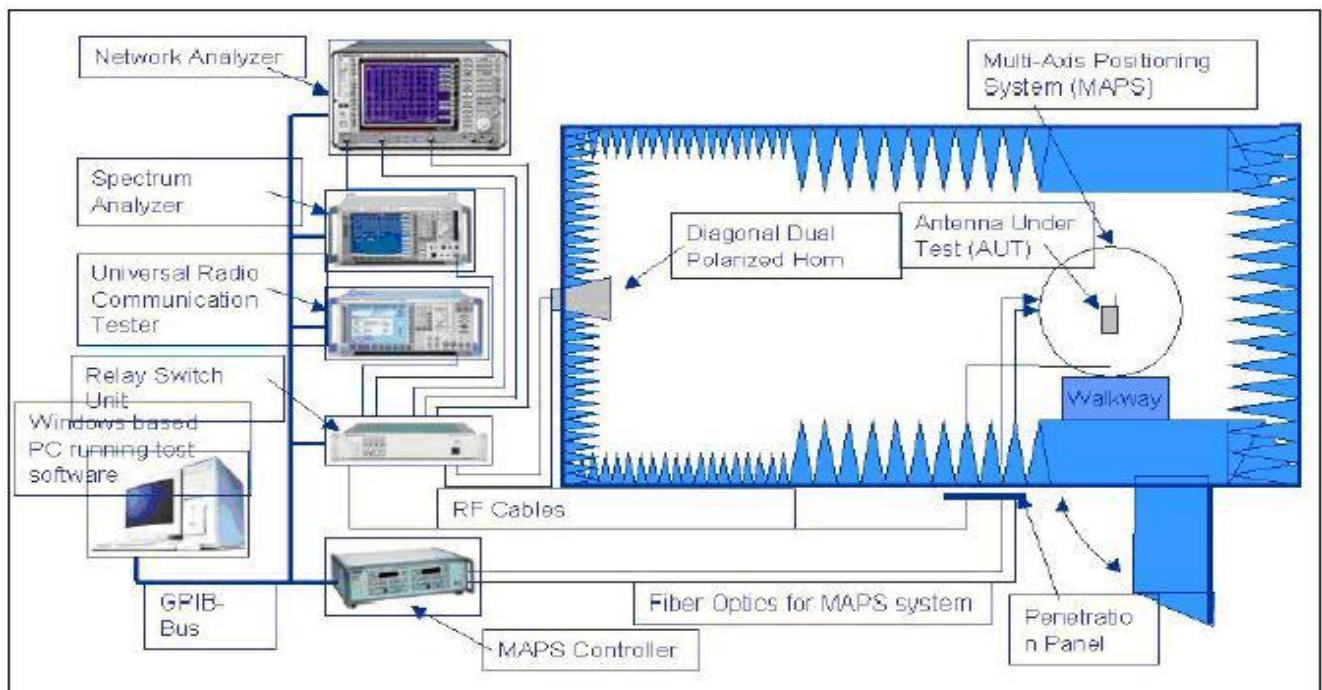
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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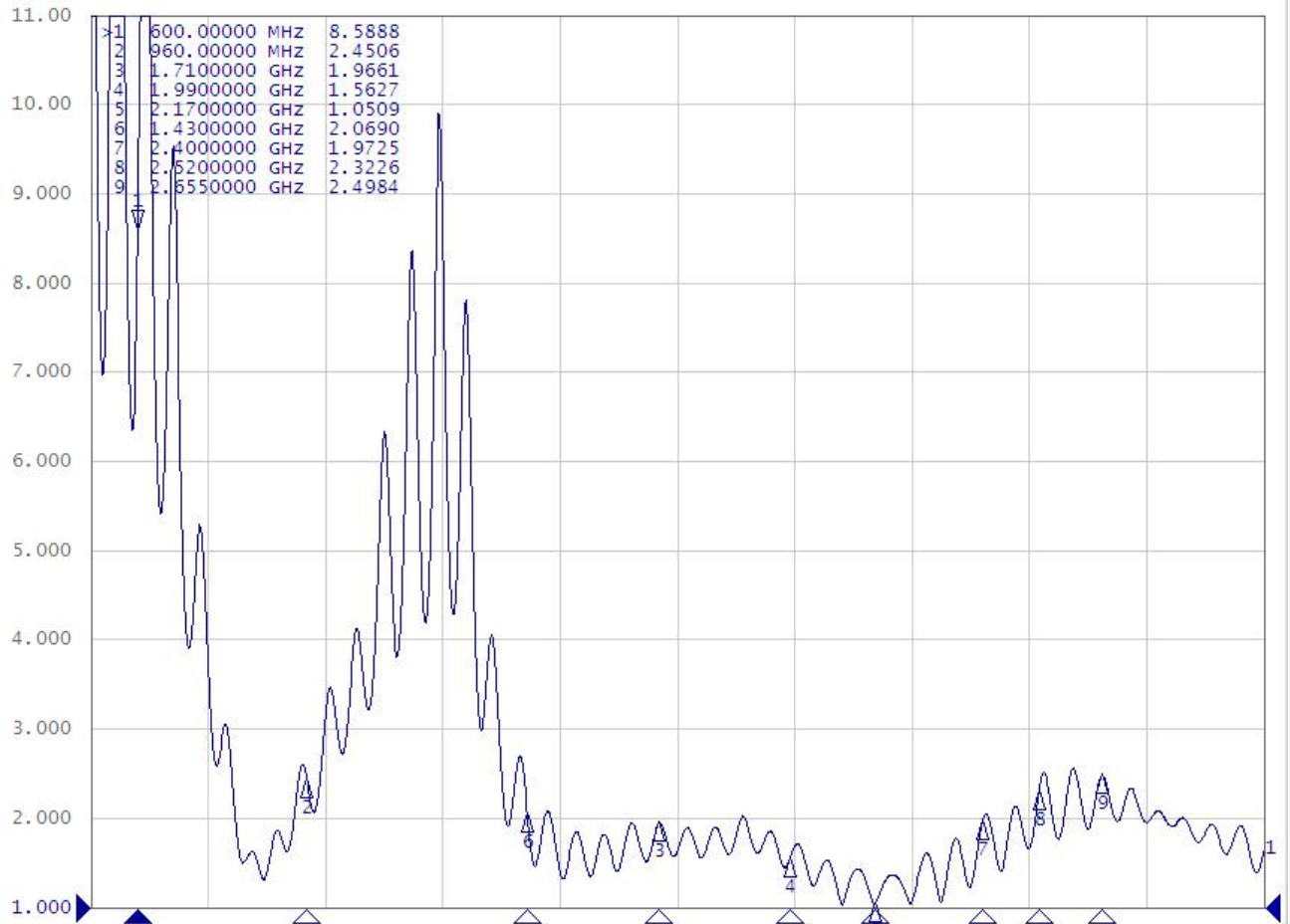
ZTX P/N : U2000 H=89mm 4G 外置天线

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2.Antenna test data

2-1 VSWR

► IT-1 S11 SWR 1.000/ Ref 1.000 [F1 Equ]



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2-2 Antenna passive test

chNo	Freq (MHz)	Gain(dBi)	Efficiency_Pcent (%)
1	600	-5.685388	15.877199
2	610	-4.076563	17.225401
3	620	-3.419744	19.927637
4	630	-2.984718	21.451369
5	640	-2.554102	22.871137
6	650	-1.979728	24.847194
7	660	-1.449651	26.597734
8	670	-1.108171	28.491064
9	680	-0.916808	29.898917
10	690	-0.912094	30.596737
11	700	-1.033182	29.958346
12	710	-0.653031	32.290492
13	720	-0.372359	33.349727
14	730	-0.234542	33.464843
15	740	-0.024597	35.108366
16	750	0.4636828	39.534312



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17	760	0.8289785	42.645347
18	770	1.5361936	50.655567
19	780	1.6721548	55.043679
20	790	1.8203948	58.449736
21	800	2.1431626	62.94145
22	810	2.1335024	64.941891
23	820	2.4021398	69.134587
24	830	2.4167049	66.296594
25	840	2.7888495	68.117471
26	850	2.7874665	65.80656
27	860	2.3195973	60.654341
28	870	1.8204288	54.075649
29	880	1.8367676	51.346687
30	890	2.3965434	55.147356
31	900	2.274157	52.705661
32	910	1.7835961	46.222282
33	920	1.4947013	41.517347
34	930	2.7749798	48.114261



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35	940	3.9548346	61.216235
36	950	3.5082556	61.752029
37	960	2.8029694	55.783967
38	1710	2.2964497	49.175089
39	1730	1.4878304	41.534559
40	1750	1.982497	46.75217
41	1770	2.1246918	47.085705
42	1790	1.8381922	44.882706
43	1810	2.4142727	48.245104
44	1830	2.6401099	52.571044
45	1850	2.6271381	50.432979
46	1870	2.7311474	49.785874
47	1890	2.4293427	49.115114
48	1910	2.1799764	47.109547
49	1930	2.1944625	46.048228
50	1950	1.9094296	45.712955
51	1970	2.3859071	50.053833
52	1990	2.6168494	52.428248



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53	2010	2.2706656	50.864142
54	2030	2.6276745	55.635575
55	2050	2.3232663	51.715313
56	2070	1.8676085	49.151262
57	2090	2.0405987	51.220681
58	2110	1.7321594	49.006566
59	2130	1.5640357	47.886495
60	2150	1.506413	47.32375
61	2170	1.7218945	51.612227
62	2190	2.1733227	55.703904
63	2300	0.565872	45.225663
64	2320	0.8354432	46.748233
65	2340	0.4448377	44.181611
66	2360	0.7263286	45.793012
67	2380	0.9463676	47.898345
68	2400	0.3818026	47.191857
69	2500	0.0481497	35.703822
70	2520	-0.010503	32.821456



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71	2540	-0.303302	31.322927
72	2560	0.2946254	32.537592
73	2580	0.3037799	30.380339
74	2600	0.5480008	30.295837
75	2620	1.0439964	33.621822
76	2640	1.7623605	37.620099
77	2660	2.1744018	39.866301
78	2680	2.4072219	38.262481
79	2690	2.9883021	42.309532



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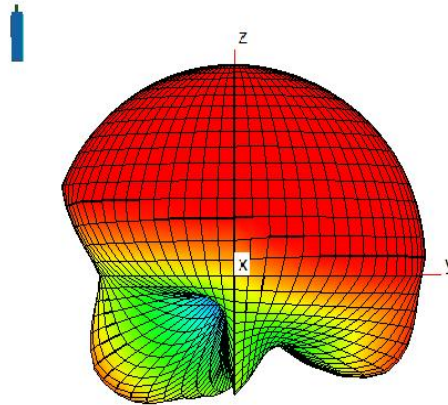
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ZTX P/N : U2000 H=89mm 4G 外置天线

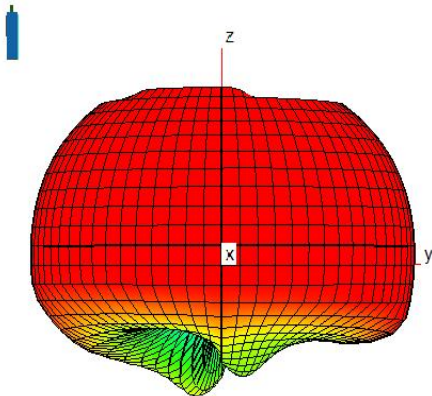
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2-3 3D radiation drawing

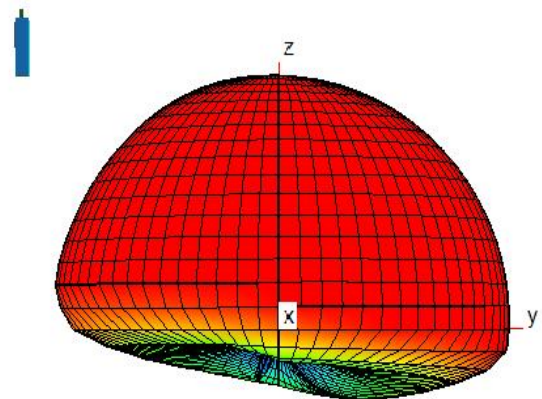
700MHz



1850MHz



2500MHz



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2-4 Active test data

欧版模块（新大陆数据）

信道	频率/MHz	设备 1+天线 1	
		TRP	TIS
BAND1	1925	16.3	-92.07
	1950	18.16	-93.57
	1975	17.03	-93.11
BAND2	1855	15.46	-92.12
	1880	16.37	-93.99
	1905	16.19	-92
BAND3	1855	17.66	-92.61
	1880	16.21	-94.01
	1905	16.45	-92.62
BAND4	1715	17.47	-91.78
	1732.5	16.07	-91.77
	1750	16.83	-92.68
BAND5	829	19.72	-95.87
	836.5	20.77	-96.07
	844	20.13	-96.41
BAND7	2510	15.71	-88.49
	2535	16.55	-88.58
	2560	15.83	-90.18
BAND8	885	19.44	-95.89
	897.5	19.79	-96.39
	910	19.29	-95.36
BAND20	832-862	20.13	-96.54
		19.88	-97.05
		19.61	-96.35
BAND28	708	17.22	-94.8
	725.5	18.37	-96.3
	743	19.06	-96.09
BAND38	2570-2620	14.24	-83.37
		14.27	-84.47
		16.96	-86.51
BAND40	2300-2400	18.35	-90.21
		18.61	-90.37



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BAND41	2496-2690	16.78	-88.34
		14.66	-84.41
		17.47	-86.85
		14.98	-85.8

信道	频率/MHz	设备 2+天线 2	
		TRP	TIS
BAND1	1925	17.73	-92.93
	1950	19.13	-93.92
	1975	18.29	-93.58
BAND2	1855	17.02	-92.84
	1880	17.8	-94.37
	1905	17.91	-92.66
BAND3	1855	18.78	-93.41
	1880	17.23	-94.35
	1905	17.69	-92.84
BAND4	1715	18.91	-92.65
	1732.5	17.19	-92.67
	1750	17.68	-93.28
BAND5	829	20.52	-95.98
	836.5	21.38	-96.47
	844	20.68	-96.79
BAND7	2510	15.5	-88.2



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	2535	16.8	-89.3
	2560	15.5	-89.61
BAND8	885	20.89	-96.27
	897.5	20.66	-96.98
	910	20.05	-95.6
BAND20	832-862	20.63	-96.71
		20.33	-97.06
		20.27	-96.46
BAND28	708	16.84	-94.83
	725.5	18.68	-96.34
	743	18.78	-96.18
BAND38	2570-2620	14.36	-83.66
		14.82	-85.1
		16.52	-86.47
BAND40	2300-2400	18.4	-90.55
		18.46	-90.55
		16.96	-88.56
BAND41	2496-2690	14.99	-84.95
		17.34	-86.86
		14.77	-85.34



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信道	频率/MHz	设备 2+天线 2	
		TRP	TIS
WCDMA B1	9612	17.36	-106.17
	9750	19.58	-107.73
	9888	18.30	-107.35
WCDMA B2	9262	17.65	-105.80
	9400	18.80	-107.70
	9538	18.59	-106.34
WCDMA B4	1312	19.24	-105.65
	1413	16.87	-106.46
	1513	18.48	-107.22
WCDMA B5	4132	19.58	-108.45
	4183	19.53	-108.23
	4233	19.56	-108.61
WCDMA B8	2712	17.57	-107.28
	2788	18.41	-109.82
	2863	17.08	-108.27
GSM850	128	31.23	-105.16
	190	30.53	-105.36
	251	30.46	-105.27



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EGSM900	1	29.06	-106.83
	62	29.29	-107.02
	124	28.53	-106.14
DSC1800	512	27.17	-103.79
	699	24.32	-106.39
	885	24.08	-105.53
PAC1900	512	27.22	-102.46
	661	28.00	-105.53
	810	27.77	-103.73



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日版模块（新大陆数据）

信道	频率/MHz	设备 1+天线 1	
		TRP	TIS
BAND1	1925	17.6	-91.8
	1950	19.23	-93.97
	1975	17.82	-93.07
BAND3	1715	19.81	-91.44
	1747.5	18.09	-93.95
	1780	18.44	-90.69
BAND5	829	20.91	-96.85
	836.5	21.8	-95.97
	844	21.46	-96.99
BAND8	885	20.94	-96.09
	897.5	21.08	-96.15
	910	20.53	-95.67
BAND11	1432.9		
	1437.9	16.62	-92.64
	1442.9		
BAND18	820		
	822.5	20.85	-97.09
	825		
BAND19	835		
	837.5	21.79	-96.45
	840		
BAND21	1452.9		
	1455.4	17.69	-91.98
	1457.9		
BAND26	814-849	20.71	-96.93
		21.24	-96.96
		21.16	-96.11
BAND28	708	17.7	-94.84
	725.5	18.13	-97.06
	743	19.71	-96.19



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BAND41	2496-2690	15.43	-85.46
		18.31	-87.63
		15.47	-86.59

信道	频率/MHz	设备 2+天线 2	
		TRP	TIS
BAND1	1925	18.12	-92.45
	1950	19.79	-94.53
	1975	18.42	-93.58
BAND3	1715	19.86	-92.33
	1747.5	18.61	-94.03
	1780	18.61	-91.75
BAND5	829	21.38	-97.14
	836.5	22.01	-96.66
	844	21.84	-97.31
BAND8	885	21.01	-96.55
	897.5	21.5	-97.12
	910	20.93	-96.28
BAND11	1432.9		
	1437.9	16.2	-92.27
	1442.9		
BAND18	820		
	822.5	21.27	-97.34
	825		
BAND19	835		
	837.5	22.04	-96.94
	840		
BAND21	1452.9		
	1455.4	17.05	-92.01



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	1457.9		
BAND26	814-849	21.08	-97.17
		21.59	-97.27
		21.51	-96.54
BAND28	708	18.01	-94.38
	725.5	18.68	-96.97
	743	19.77	-95.97
BAND41	2496-2690	15.23	-85.76
		18.29	-87.79
		15.16	-85.6
信道	频率/MHz	设备 2+天线 2	
		TRP	TIS
WCDMA B1	9612	18. 59	-106. 43
	9750	20. 73	-108. 05
	9888	19. 69	-107. 28
WCDMA B6	4387	19. 34	-109. 11
	4400	19. 47	-108. 69
	4413	19. 00	-108. 37
WCDNA B8	2712	18. 43	-107. 60
	2788	19. 55	-109. 37
	2863	18. 12	-108. 44
WCDMA B19	312	21. 03	-109. 05



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	338	21.42	-108.17
	363	21.66	-108.47



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北美模块（新大陆数据）

信道	频率/MHz	设备 1+天线 1	
		TRP	TIS
BAND2	1855	16.74	-92.69
	1880	18.29	-94.17
	1905	17.4	-91.72
BAND4	1715	18.88	-91.62
	1732.5	17.69	-93.03
	1750	18.97	-93.59
BAND5	829	20.81	-94.52
	836.5	21.65	-96.5
	844	21	-97.14
BAND7	2510	13.76	-84.33
	2535	16.01	-84.58
	2560	12.7	-85.65
BAND12	701.5	15.87	-97.77
	707.5	16.49	-97.24
	713.5	17.37	-96.83
BAND13	782	20.1	-91.73
BAND14	793	20.56	-89.89
BAND17	709	17.61	-94.06
	710	18.02	-94.31
	711	18.65	-94.53
BAND25	1872.5	17.16	-94.13
	1882.5	18.37	-93.49
	1892.5	18.17	-92.33
BAND26	821.5	20.43	-96.05
	831.5	21.23	-95.94
	841.5	20.73	-96.29
BAND41	2496-2690	13.12	-82.72
		17.36	-85.02



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		14.37	-83.1
BAND66	1715	18.73	-91.46
	1745	18.38	-93.68
	1775	18.18	-91.7
BAND71	668	16.83	-88.75
	680.5	16.85	-90.05
	693	16.22	-90.83

信道	频率/MHz	设备 2+天线 2	
		TRP	TIS
BAND2	1855	17.13	-92.78
	1880	18.53	-94.29
	1905	17.64	-91.92
BAND4	1715	18.99	-91.6
	1732.5	17.9	-93.07
	1750	19.45	-93.75
BAND5	829	20.58	-95.95
	836.5	21.36	-96.42
	844	20.76	-97.22
BAND7	2510	16.03	-87.03
	2535	17.55	-86.85
	2560	15.37	-88.16
BAND12	701.5	15.72	-96.58
	707.5	16.12	-96.44
	713.5	16.86	-96.22
BAND13	782	20.43	-91.42
BAND14	793	20.58	-89.99



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BAND17	709	17.26	-93.77
	710	17.48	-93.96
	711	18.02	-94.11
BAND25	1872.5	17.44	-94.13
	1882.5	18.48	-93.49
	1892.5	18.42	-92.38
BAND26	821.5	19.98	-96.23
	831.5	20.62	-96.25
	841.5	20.47	-96.46
BAND41	2496-2690	14.69	-85.02
		17.51	-87.82
		14.26	-85.56
BAND66	1715	19.02	-91.48
	1745	18.59	-93.85
	1775	18.72	-91.89
BAND71	668	16.6	-89.93
	680.5	17.32	-91.05
	693	16.57	-91.61

