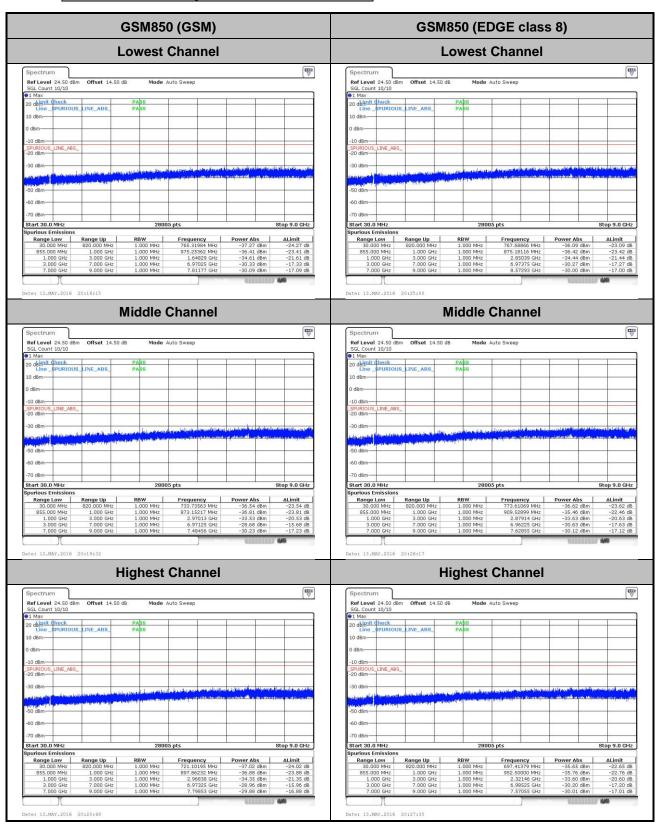


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### **Conducted Spurious Emission**



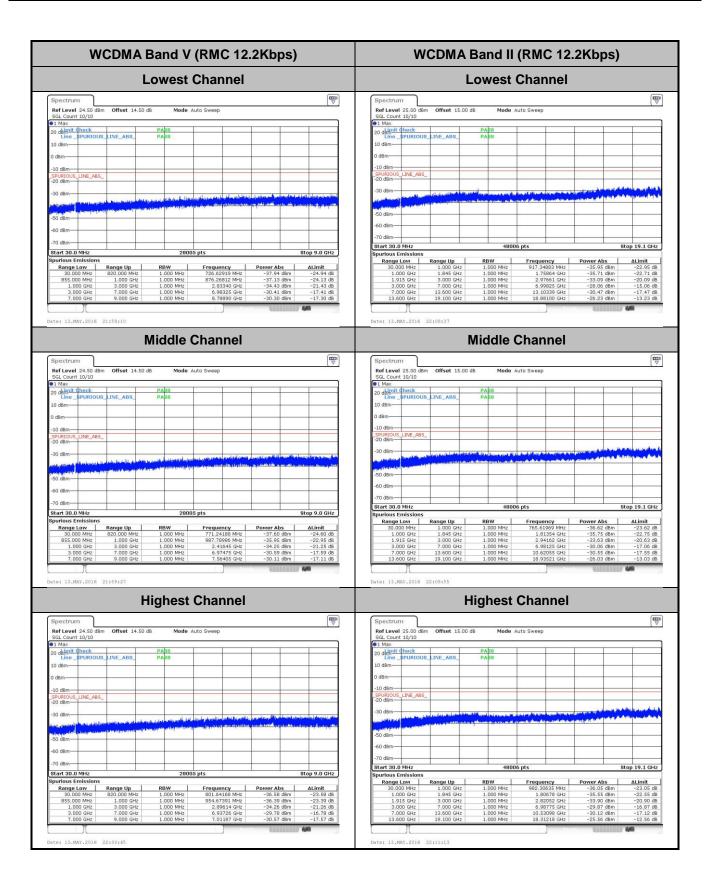
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WCDMA Band IV (RMC 12.2Kbps) **Lowest Channel** Mode Auto Sweep Date: 13.MAY.2016 22:03:27 **Middle Channel** Date: 13.MAY.2016 22:04:45 **Highest Channel** 

#### SPORTON INTERNATIONAL (SHENZHEN) INC.

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### Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	on (ppm)	Result
50	Normal Voltage	0.0251	0.0027	
40	Normal Voltage	0.0227	0.0016	
30	Normal Voltage	0.0024	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0155	0.0074	
0	Normal Voltage	0.0179	0.0005	
-10	Normal Voltage	0.0012	0.0090	PASS
-20	Normal Voltage	0.0191	0.0016	
-30	Normal Voltage	0.0167	0.0021	
20	Maximum Voltage	0.0012	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0012	0.0016	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0048	0.0207	
40	Normal Voltage	0.0299	0.0197	
30	Normal Voltage	0.0024	0.0223	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0239	0.0005	
0	Normal Voltage	0.0024	0.0016	
-10	Normal Voltage	0.0036	0.0021	PASS
-20	Normal Voltage	0.0227	0.0032	
-30	Normal Voltage	0.0084	0.0037	
20	Maximum Voltage	0.0024	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0012	0.0011	

### Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Test Conditions	Test Conditions Middle Channel WCDMA Band V (RMC 12.2Kbps)		Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0017	
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0040	PASS
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0087	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0167	
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0191	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0036	PASS
-20	Normal Voltage	0.0239	
-30	Normal Voltage	0.0179	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

#### Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0101	
40	Normal Voltage	0.0096	
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0074	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0080	PASS
-20	Normal Voltage	0.0085	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

#### Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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### **Appendix B. Test Results of Radiated Test**

## **ERP/EIRP**

Channel	Mode	Horiz	ontal	Vertical		
Channel	Wode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	CCMOSO	22.50	0.1780	11.77	0.0150	
Middle	GSM850 GSM	24.92	0.3105	15.44	0.0350	
Highest	GSIVI	26.21	0.4178	17.06	0.0508	
Lowest	0011070	17.21	0.0526	6.48	0.0045	
Middle	GSM850 EDGE class 8	19.10	0.0813	8.04	0.0064	
Highest	EDGE Class o	20.95	0.1245	10.81	0.0121	
Lowest	WCDMA Bond V	14.18	0.0262	3.63	0.0023	
Middle	WCDMA Band V RMC 12.2Kbps	15.62	0.0365	5.25	0.0033	
Highest		17.22	0.0528	7.17	0.0052	
Limit	ERP < 7W	Re	sult	PA	SS	

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Channel	Mode	Horiz	ontal	Vertical		
Channel	Wiode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	CCM4000	25.95	0.3932	26.00	0.3982	
Middle	GSM1900	25.88	0.3872	25.70	0.3718	
Highest	- GSM	26.03	0.4010	25.57	0.3605	
Lowest	00144000	23.25	0.2113	23.59	0.2286	
Middle	GSM1900 EDGE class 8	23.45	0.2213	23.78	0.2388	
Highest	EDGE Class o	23.27	0.2123	23.18	0.2080	
Lowest	WCDMA Bond II	18.71	0.0743	18.87	0.0770	
Middle	WCDMA Band II  RMC 12.2Kbps	19.89	0.0974	19.74	0.0942	
Highest		18.31	0.0677	18.22	0.0663	
Limit	EIRP < 2W	Re	sult	PASS		

Channal	Mode	Horiz	ontal	Vertical		
Channel	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20.93	0.1240	20.87	0.1222	
Middle	WCDMA Band IV	20.74	0.1185	20.71	0.1177	
Highest	RMC 12.2Kbps	20.42	0.1102	20.38	0.1091	
Limit	EIRP < 1W	Re	sult	PA	SS	

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# **Radiated Spurious Emission**

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				GSM85	0 (GSM)				
	Frequency	ERP	Limit	Over Limit	SPA	S.G. Power	TX Cable	TX Antenna	Polarization
Channel	(MHz)	(dBm)	(dBm)	( dB )	Reading	(dBm)	Loss (dB)	Gain (dBi)	(H/V)
	1648.4	-38.69	-13	-25.69	-44.86	-45.38	0.56	9.40	Н
	2472.6	-41.22	-13	-28.22	-50.17	-48.93	0.74	10.60	Н
	3296.8	-52.46	-13	-39.46	-61.27	-62.06	0.85	12.60	Н
	4120	-53.12	-13	-40.12	-64.64	-62.68	0.89	12.60	Н
	4945	-51.72	-13	-38.72	-65.91	-61.33	0.94	12.70	Н
	5770	-52.01	-13	-39.01	-66.29	-61.75	1.11	13.00	Н
	6595	-46.20	-13	-33.20	-62.48	-54.53	1.22	11.70	Н
	7565	-48.44	-13	-35.44	-66.65	-55.90	1.69	11.30	Н
Lowest	1648.4	-46.09	-13	-33.09	-50.75	-52.78	0.56	9.40	V
	2472.6	-47.87	-13	-34.87	-54.91	-55.58	0.74	10.60	V
	3296.8	-54.38	-13	-41.38	-62.52	-63.98	0.85	12.60	V
	4120	-53.88	-13	-40.88	-65.00	-63.44	0.89	12.60	V
	4945	-52.00	-13	-39.00	-65.57	-61.61	0.94	12.70	V
	5770	-51.45	-13	-38.45	-66.05	-61.19	1.11	13.00	V
	6595	-43.07	-13	-30.07	-59.90	-51.40	1.22	11.70	V
	7565	-48.37	-13	-35.37	-66.69	-55.83	1.69	11.30	V
	1672	-43.74	-13	-30.74	-49.35	-50.43	0.56	9.40	Н
	2510	-45.63	-13	-32.63	-53.72	-53.34	0.74	10.60	Н
	3346	-54.78	-13	-41.78	-63.59	-64.38	0.85	12.60	Н
	4180	-53.24	-13	-40.24	-64.76	-62.80	0.89	12.60	Н
	5020	-53.61	-13	-40.61	-67.80	-63.22	0.94	12.70	Н
	5855	-50.96	-13	-37.96	-65.24	-60.70	1.11	13.00	Н
	6690	-46.84	-13	-33.84	-63.12	-55.17	1.22	11.70	Н
Middle	1672	-49.90	-13	-36.90	-53.51	-56.59	0.56	9.40	V
	2510	-51.40	-13	-38.40	-57.26	-59.11	0.74	10.60	V
	3346	-54.65	-13	-41.65	-62.79	-64.25	0.85	12.60	V
	4180	-55.51	-13	-42.51	-66.63	-65.07	0.89	12.60	V
	5020	-52.03	-13	-39.03	-65.60	-61.64	0.94	12.70	V
	5855	-50.93	-13	-37.93	-65.53	-60.67	1.11	13.00	V
	6690	-42.03	-13	-29.03	-58.86	-50.36	1.22	11.70	V
	1697.6	-45.71	-13	-32.71	-50.87	-52.40	0.56	9.40	Н
	2546.4	-44.38	-13	-31.38	-52.65	-52.09	0.74	10.60	Н
	3395.2	-53.44	-13	-40.44	-62.25	-63.04	0.85	12.60	Н
	4240	-54.03	-13	-41.03	-65.55	-63.59	0.89	12.60	Н
	5090	-50.66	-13	-37.66	-64.85	-60.27	0.94	12.70	Н
	5940	-51.48	-13	-38.48	-65.76	-61.22	1.11	13.00	Н
	6790	-46.49	-13	-33.49	-62.77	-54.82	1.22	11.70	Н
Highest	1697.6	-55.14	-13	-42.14	-56.80	-61.83	0.56	9.40	V
	2546.4	-46.40	-13	-33.40	-53.72	-54.11	0.74	10.60	V
	3395.2	-55.46	-13	-42.46	-63.60	-65.06	0.85	12.60	V
	4240	-56.43	-13	-43.43	-67.55	-65.99	0.89	12.60	V
	5090	-51.26	-13	-38.26	-64.83	-60.87	0.94	12.70	V
	5940	-51.09	-13	-38.09	-65.69	-60.83	1.11	13.00	V
	6790	-42.36	-13	-29.36	-59.19	-50.69	1.22	11.70	V

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				GSM850 (E	DGE class 8	3)			
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1648.4	-40.11	-13	-27.11	-46.25	-46.80	0.56	9.40	Н
	2472.6	-43.05	-13	-30.05	-51.61	-50.76	0.74	10.60	Н
Lowest	3296.8	-54.32	-13	-41.32	-63.13	-63.92	0.85	12.60	Н
Lowest	1648.4	-50.11	-13	-37.11	-53.69	-56.80	0.56	9.40	V
	2472.6	-49.22	-13	-36.22	-55.79	-56.93	0.74	10.60	V
	3296.8	-55.76	-13	-42.76	-63.90	-65.36	0.85	12.60	V
	1672	-44.24	-13	-31.24	-49.78	-50.93	0.56	9.40	Н
	2510	-49.25	-13	-36.25	-56.05	-56.96	0.74	10.60	Н
N 4: -L -U -	3346	-56.94	-13	-43.94	-65.75	-66.54	0.85	12.60	Н
Middle	1672	-51.41	-13	-38.41	-54.58	-58.10	0.56	9.40	V
	2510	-50.73	-13	-37.73	-56.73	-58.44	0.74	10.60	V
	3346	-56.52	-13	-43.52	-64.66	-66.12	0.85	12.60	V
	1697.6	-46.78	-13	-33.78	-51.67	-53.47	0.56	9.40	Н
	2546.4	-45.48	-13	-32.48	-53.61	-53.19	0.74	10.60	Н
10.1	3395.2	-54.64	-13	-41.64	-63.45	-64.24	0.85	12.60	Н
Highest	1697.6	-53.68	-13	-40.68	-55.98	-60.37	0.56	9.40	V
	2546.4	-51.43	-13	-38.43	-57.29	-59.14	0.74	10.60	V
	3395.2	-58.16	-13	-45.16	-66.30	-67.76	0.85	12.60	V

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	GSM1900 (GSM)									
Channel	Frequency ( MHz )	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	3700.4	-37.09	-13	-24.09	-51.83	-43.13	6.56	12.60	Н	
	5550.6	-42.73	-13	-29.73	-58.67	-47.83	8	13.10	Н	
Lowest	7400.8	-39.20	-13	-26.20	-58.02	-40.93	9.57	11.30	Н	
Lowest	3700.4	-32.29	-13	-19.29	-48.06	-38.33	6.56	12.6	V	
	5550.6	-34.71	-13	-21.71	-53.82	-39.81	8	13.1	V	
	7400.8	-45.66	-13	-32.66	-64.06	-47.39	9.57	11.3	V	
	3760	-35.86	-13	-22.86	-50.95	-41.90	6.56	12.60	Н	
	5640	-46.98	-13	-33.98	-62.92	-52.08	8	13.10	Н	
Middle	7520	-40.46	-13	-27.46	-59.20	-42.19	9.57	11.30	Н	
Middle	3760	-32.77	-13	-19.77	-48.54	-38.81	6.56	12.6	V	
	5640	-43.36	-13	-30.36	-60.71	-48.46	8	13.1	V	
	7520	-45.62	-13	-32.62	-64.02	-47.35	9.57	11.3	V	
	3819.6	-37.10	-13	-24.10	-51.85	-43.14	6.56	12.60	Н	
	5729.4	-48.09	-13	-35.09	-64.03	-53.19	8	13.10	Н	
I Calaca	7639.2	-40.67	-13	-27.67	-59.41	-42.40	9.57	11.30	Н	
Highest	3819.6	-32.94	-13	-19.94	-48.71	-38.98	6.56	12.6	V	
	5729.4	-46.07	-13	-33.07	-63.42	-51.17	8	13.1	V	
	7639.2	-45.76	-13	-32.76	-64.16	-47.49	9.57	11.3	V	

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				GSM1900 (E	EDGE class	8)			
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3700.4	-49.09	-13	-36.09	-62.64	-55.13	6.56	12.60	Н
	5550.6	-43.03	-13	-30.03	-58.97	-48.13	8	13.10	Н
Lowest	7400.8	-46.81	-13	-33.81	-65.55	-48.54	9.57	11.30	Н
Lowest	3700.4	-44.56	-13	-31.56	-57.91	-50.60	6.56	12.6	V
	5550.6	-40.24	-13	-27.24	-57.59	-45.34	8	13.1	V
	7400.8	-49.87	-13	-36.87	-68.27	-51.60	9.57	11.3	V
	3760	-45.91	-13	-32.91	-59.46	-51.95	6.56	12.60	Н
	5640	-45.81	-13	-32.81	-61.75	-50.91	8	13.10	Н
N 4: -L -LL -	7520	-46.00	-13	-33.00	-64.74	-47.73	9.57	11.30	Н
Middle	3760	-46.08	-13	-33.08	-59.43	-52.12	6.56	12.6	V
	5640	-41.69	-13	-28.69	-59.04	-46.79	8	13.1	V
	7520	-49.81	-13	-36.81	-68.21	-51.54	9.57	11.3	V
	3819.6	-50.06	-13	-37.06	-63.61	-56.10	6.56	12.60	Н
	5729.4	-46.63	-13	-33.63	-62.57	-51.73	8	13.10	Н
10.1	7639.2	-46.51	-13	-33.51	-65.25	-48.24	9.57	11.30	Н
Highest	3819.6	-45.85	-13	-32.85	-59.2	-51.89	6.56	12.6	V
	5729.4	-40.72	-13	-27.72	-58.07	-45.82	8	13.1	V
	7639.2	-49.23	-13	-36.23	-67.63	-50.96	9.57	11.3	V

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WCDMA Band V (RMC 12.2Kbps)									
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1652.8	-60.51	-13	-47.51	-63.34	-67.20	0.56	9.40	Н
	2479.2	-59.39	-13	-46.39	-65.13	-67.10	0.74	10.60	Н
	3305.6	-57.22	-13	-44.22	-66.03	-66.82	0.85	12.60	Н
Lowest	1652.8	-61.74	-13	-48.74	-63.40	-68.43	0.56	9.40	V
	2479.2	-60.17	-13	-47.17	-65.75	-67.88	0.74	10.60	V
	3305.6	-58.49	-13	-45.49	-66.63	-68.09	0.85	12.60	V
	1672	-59.66	-13	-46.66	-62.49	-66.35	0.56	9.40	Н
	2510	-59.26	-13	-46.26	-65.00	-66.97	0.74	10.60	Н
	3346	-58.01	-13	-45.01	-66.82	-67.61	0.85	12.60	Н
Middle	1672	-61.85	-13	-48.85	-63.51	-68.54	0.56	9.40	V
	2510	-60.20	-13	-47.20	-65.78	-67.91	0.74	10.60	V
	3346	-58.15	-13	-45.15	-66.29	-67.75	0.85	12.60	V
	1693.2	-59.76	-13	-46.76	-62.59	-66.45	0.56	9.40	Н
Highest	2539.8	-60.25	-13	-47.25	-65.99	-67.96	0.74	10.60	Н
	3386.4	-57.92	-13	-44.92	-66.73	-67.52	0.85	12.60	Н
	1693.2	-63.29	-13	-50.29	-64.95	-69.98	0.56	9.40	V
	2539.8	-59.82	-13	-46.82	-65.40	-67.53	0.74	10.60	V
	3386.4	-58.51	-13	-45.51	-66.65	-68.11	0.85	12.60	V

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WCDMA Band II (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704.8	-52.65	-13	-39.65	-66.20	-58.69	6.56	12.60	Н
	5557.2	-51.98	-13	-38.98	-67.92	-57.08	8	13.10	Н
	7409.6	-49.30	-13	-36.30	-68.04	-51.03	9.57	11.30	Н
	3704.8	-52.18	-13	-39.18	-65.53	-58.22	6.56	12.6	V
	5557.2	-51.13	-13	-38.13	-68.48	-56.23	8	13.1	V
	7409.6	-49.91	-13	-36.91	-68.31	-51.64	9.57	11.3	V
Middle	3760	-53.51	-13	-40.51	-67.06	-59.55	6.56	12.60	Н
	5640	-52.15	-13	-39.15	-68.09	-57.25	8	13.10	Н
	7520	-49.15	-13	-36.15	-67.89	-50.88	9.57	11.30	Н
	3760	-53.15	-13	-40.15	-66.5	-59.19	6.56	12.6	V
	5640	-51.02	-13	-38.02	-68.37	-56.12	8	13.1	V
	7520	-48.72	-13	-35.72	-67.12	-50.45	9.57	11.3	V
	3815.2	-53.82	-13	-40.82	-67.37	-59.86	6.56	12.60	Н
Highest	5722.8	-52.30	-13	-39.30	-68.24	-57.40	8	13.10	Н
	7630.4	-48.34	-13	-35.34	-67.08	-50.07	9.57	11.30	Н
	3815.2	-54.27	-13	-41.27	-67.62	-60.31	6.56	12.6	V
	5722.8	-50.46	-13	-37.46	-67.81	-55.56	8	13.1	V
	7630.4	-48.98	-13	-35.98	-67.38	-50.71	9.57	11.3	V

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WCDMA Band IV (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3424.8	-51.46	-13	-38.46	-66.21	-57.88	6.18	12.60	Н
	5137.2	-49.46	-13	-36.46	-67.46	-54.42	7.74	12.70	Н
	6849.6	-49.04	-13	-36.04	-67.85	-51.74	9	11.70	Н
	3424.8	-56.01	-13	-43.01	-66.96	-62.43	6.18	12.60	V
	5137.2	-54.62	-13	-41.62	-67.62	-59.58	7.74	12.70	V
	6849.6	-50.90	-13	-37.90	-67.61	-53.60	9	11.70	V
Middle	3465.2	-52.15	-13	-39.15	-66.90	-58.57	6.18	12.60	Н
	5197.8	-49.97	-13	-36.97	-67.97	-54.93	7.74	12.70	Н
	6930.4	-49.33	-13	-36.33	-68.14	-52.03	9	11.70	Н
	3465.2	-55.65	-13	-42.65	-66.6	-62.07	6.18	12.60	V
	5197.8	-55.31	-13	-42.31	-68.31	-60.27	7.74	12.70	V
	6930.4	-50.97	-13	-37.97	-67.68	-53.67	9	11.70	V
Highest	3505.2	-52.15	-13	-39.15	-66.90	-58.57	6.18	12.60	Н
	5257.8	-49.88	-13	-36.88	-67.88	-54.84	7.74	12.70	Н
	7010.4	-49.80	-13	-36.80	-68.61	-52.50	9	11.70	Н
	3505.2	-55.27	-13	-42.27	-66.22	-61.69	6.18	12.60	V
	5257.8	-54.69	-13	-41.69	-67.69	-59.65	7.74	12.70	V
	7010.4	-51.09	-13	-38.09	-67.8	-53.79	9	11.70	V

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