



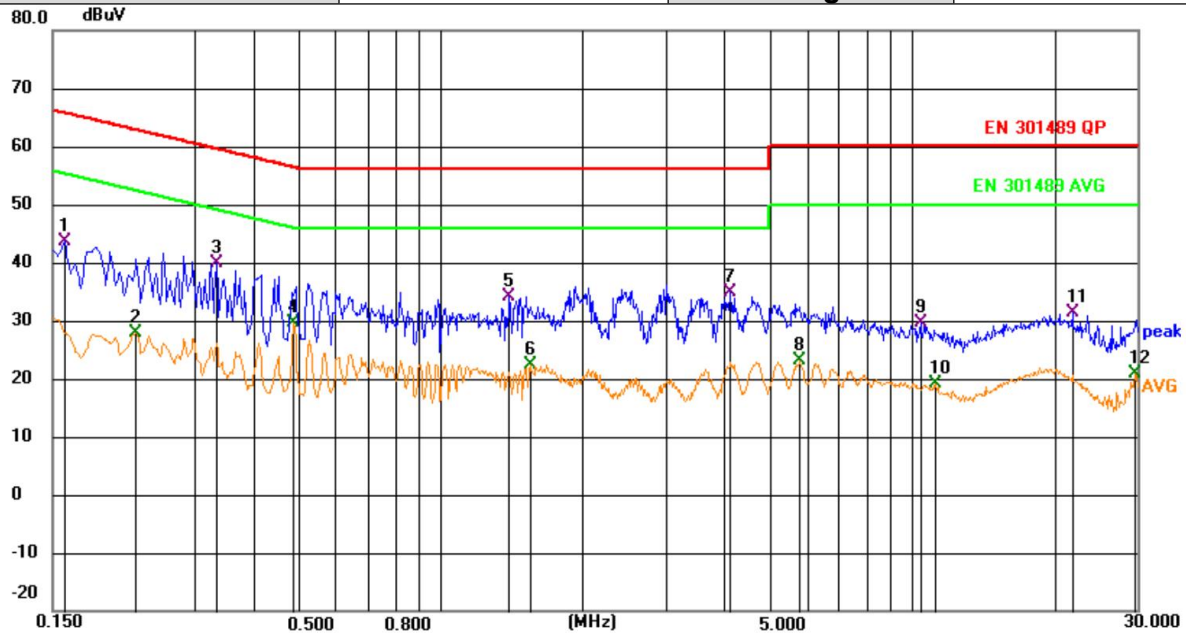
## Appendix A for Emission and Immunity test results

Product Name: Smartphone

Test Model: KINGKONG AX

### A.1 Line Conducted Emission

Test Model	KINGKONG AX	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Paddi Chen
Pol.	Line	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1590	24.00	19.63	43.63	65.52	-21.89	QP	
2		0.2266	8.22	19.63	27.85	52.57	-24.72	AVG	
3		0.3345	20.15	19.63	39.78	59.34	-19.56	QP	
4	*	0.4876	10.09	19.64	29.73	46.21	-16.48	AVG	
5		1.3965	14.52	19.66	34.18	56.00	-21.82	QP	
6		1.5451	2.63	19.67	22.30	46.00	-23.70	AVG	
7		4.1281	15.14	19.70	34.84	56.00	-21.16	QP	
8		5.7886	3.31	19.70	23.01	50.00	-26.99	AVG	
9		10.4146	9.81	19.85	29.66	60.00	-30.34	QP	
10		11.2111	-0.76	19.85	19.09	50.00	-30.91	AVG	
11		21.8761	11.35	20.10	31.45	60.00	-28.55	QP	
12		29.8411	0.78	20.11	20.89	50.00	-29.11	AVG	



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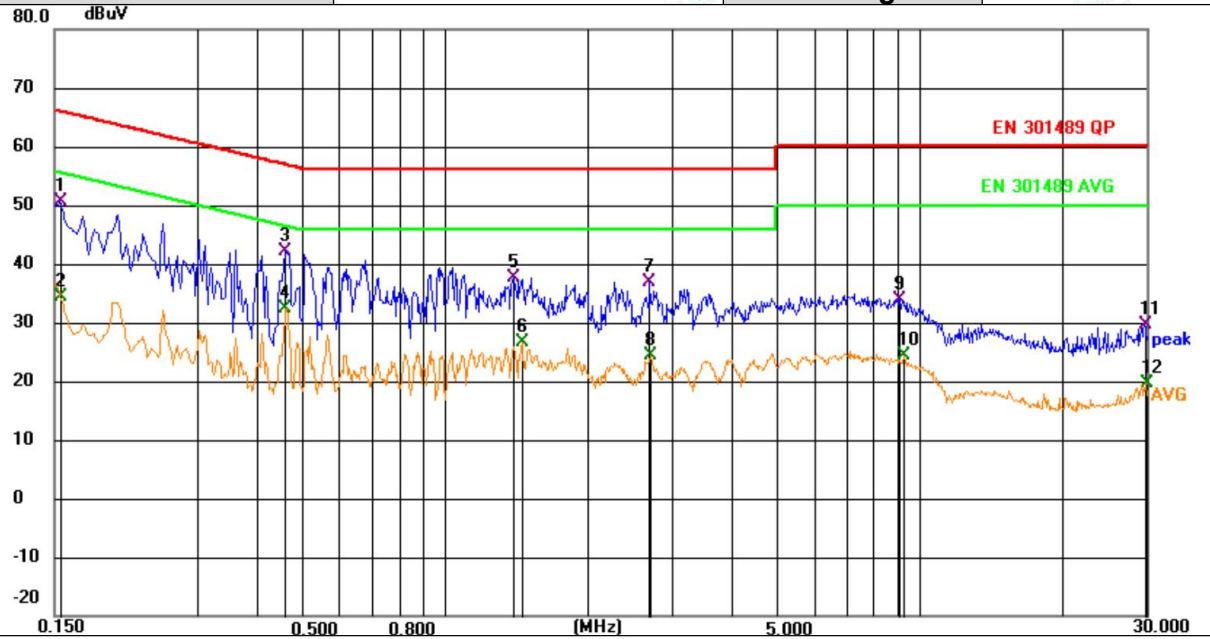
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Test Model	KINGKONG AX	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Paddi Chen
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	30.99	19.63	50.62	65.75	-15.13	QP	
2		0.1545	14.70	19.63	34.33	55.75	-21.42	AVG	
3		0.4606	22.59	19.64	42.23	56.68	-14.45	QP	
4	*	0.4606	12.80	19.64	32.44	46.68	-14.24	AVG	
5		1.3920	17.89	19.66	37.55	56.00	-18.45	QP	
6		1.4505	7.07	19.66	26.73	46.00	-19.27	AVG	
7		2.7061	17.07	19.72	36.79	56.00	-19.21	QP	
8		2.7151	4.70	19.72	24.42	46.00	-21.58	AVG	
9		9.1006	14.15	19.85	34.00	60.00	-26.00	QP	
10		9.2536	4.47	19.85	24.32	50.00	-25.68	AVG	
11		29.7826	9.61	20.10	29.71	60.00	-30.29	QP	
12		29.9041	-0.50	20.11	19.61	50.00	-30.39	AVG	

Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

Margin= Reading Level + Correct Factor – Limit

Correct Factor=Lisn Factor+Cable Factor



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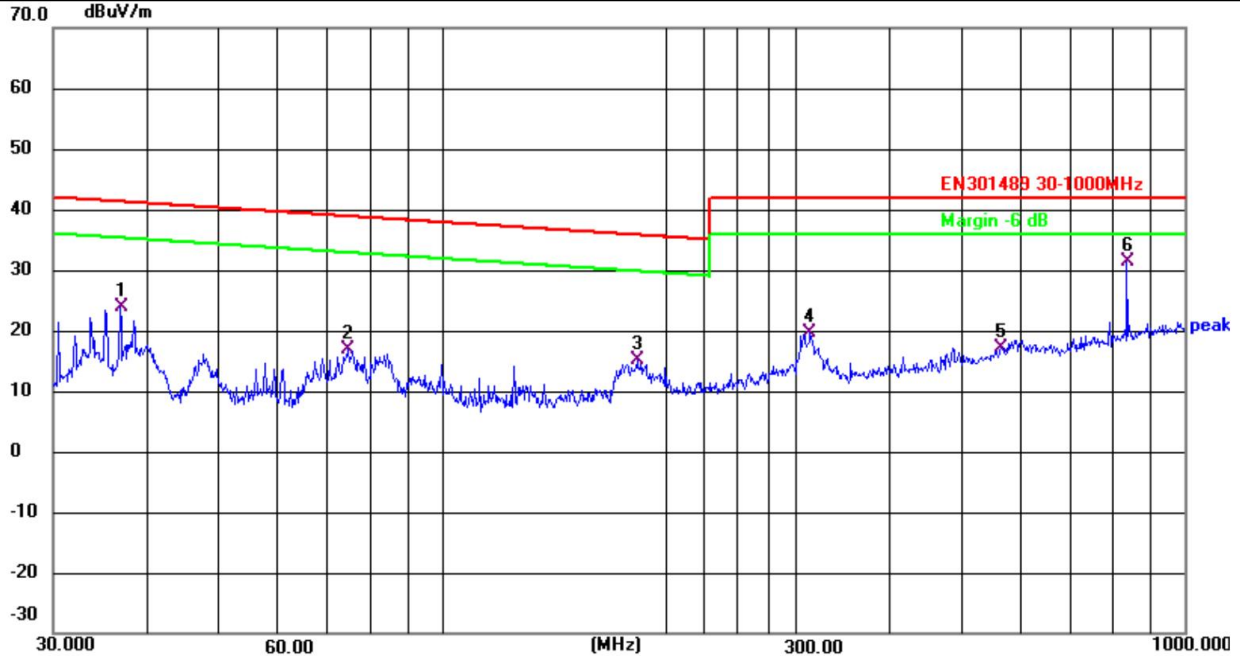
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### A.3 Radiated Disturbance

Test Model	KINGKONG AX	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Vertical	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	41.63	-17.70	23.93	41.29	-17.36	QP
2	74.9191	36.60	-19.67	16.93	38.85	-21.92	QP
3	183.2005	33.70	-18.56	15.14	35.78	-20.64	QP
4	313.2760	34.38	-14.86	19.52	42.00	-22.48	QP
5	566.6221	28.41	-11.18	17.23	42.00	-24.77	QP
6	836.2443	40.49	-9.03	31.46	42.00	-10.54	QP



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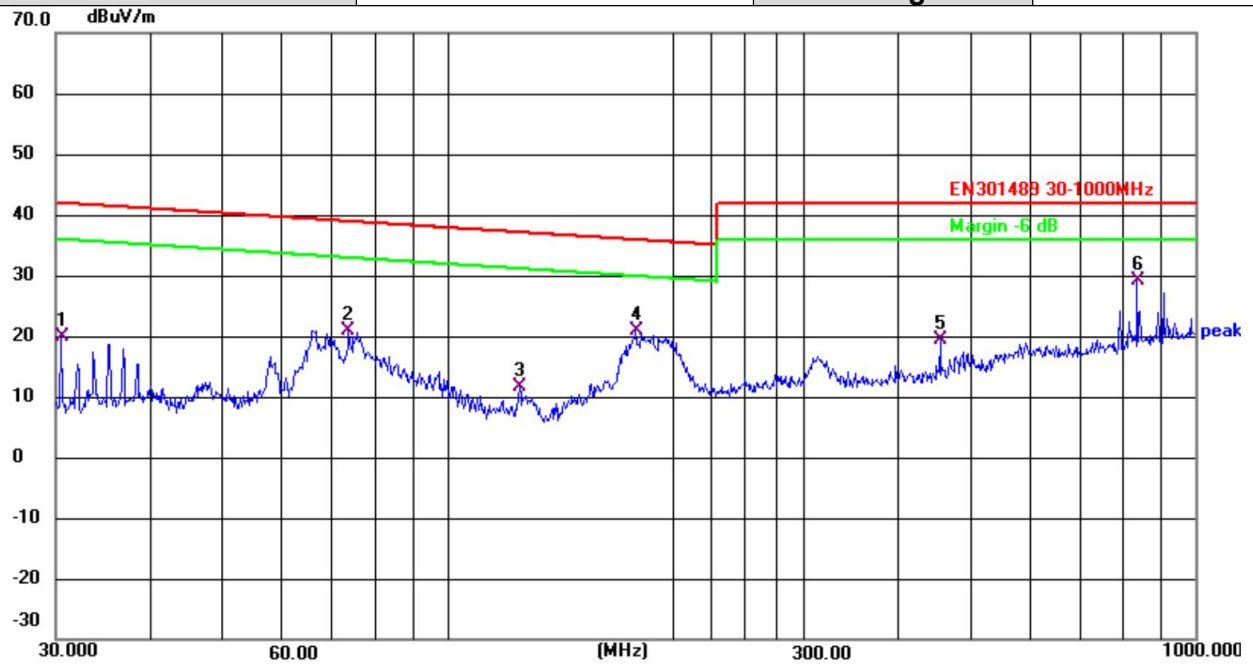
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Test Model	KINGKONG AX	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	38.17	-18.39	19.78	41.94	-22.16	QP
2	73.8756	40.45	-19.63	20.82	38.90	-18.08	QP
3	125.0065	31.77	-20.26	11.51	37.10	-25.59	QP
4	178.7584	39.69	-18.79	20.90	35.87	-14.97	QP
5	455.9058	33.60	-14.25	19.35	42.00	-22.65	QP
6	836.2443	38.26	-9.03	29.23	42.00	-12.77	QP

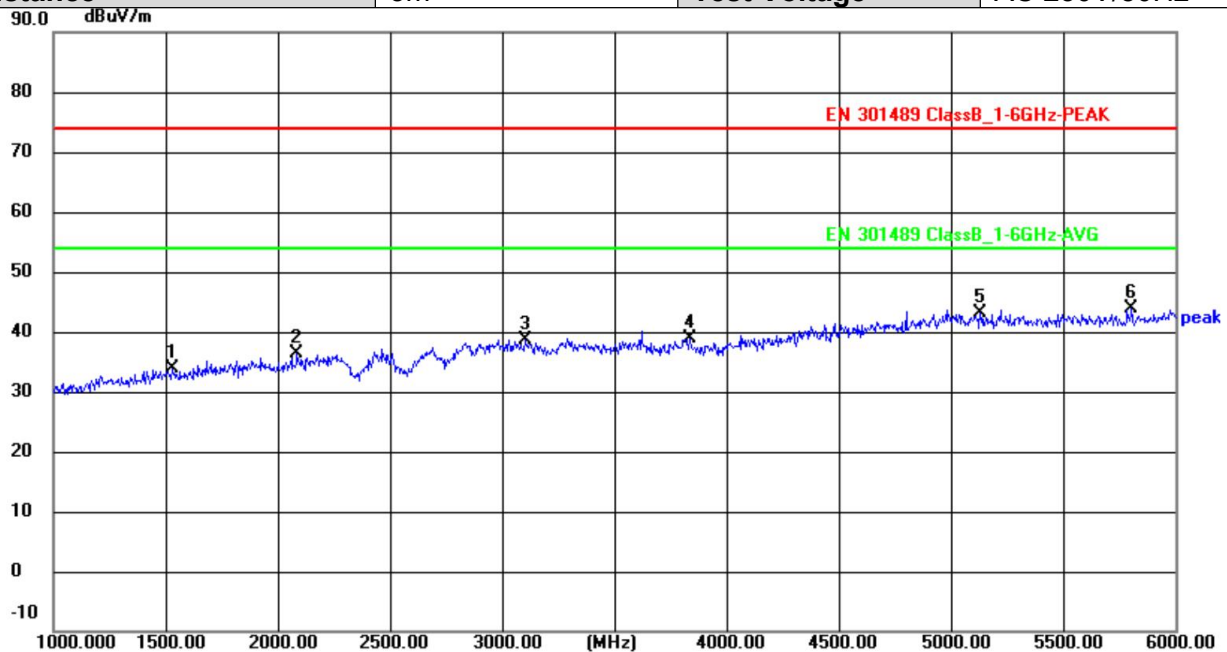
Note: Margin= Reading Level + Correct Factor – Limit  
Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor







Test Model	KINGKONG AX	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9℃, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1530.000	48.62	-14.83	33.79	74.00	-40.21	peak
2	2085.000	49.09	-12.80	36.29	74.00	-37.71	peak
3	3100.000	48.17	-9.56	38.61	74.00	-35.39	peak
4	3835.000	47.80	-8.83	38.97	74.00	-35.03	peak
5	5130.000	46.98	-3.89	43.09	74.00	-30.91	peak
6	5805.000	47.46	-3.50	43.96	74.00	-30.04	peak



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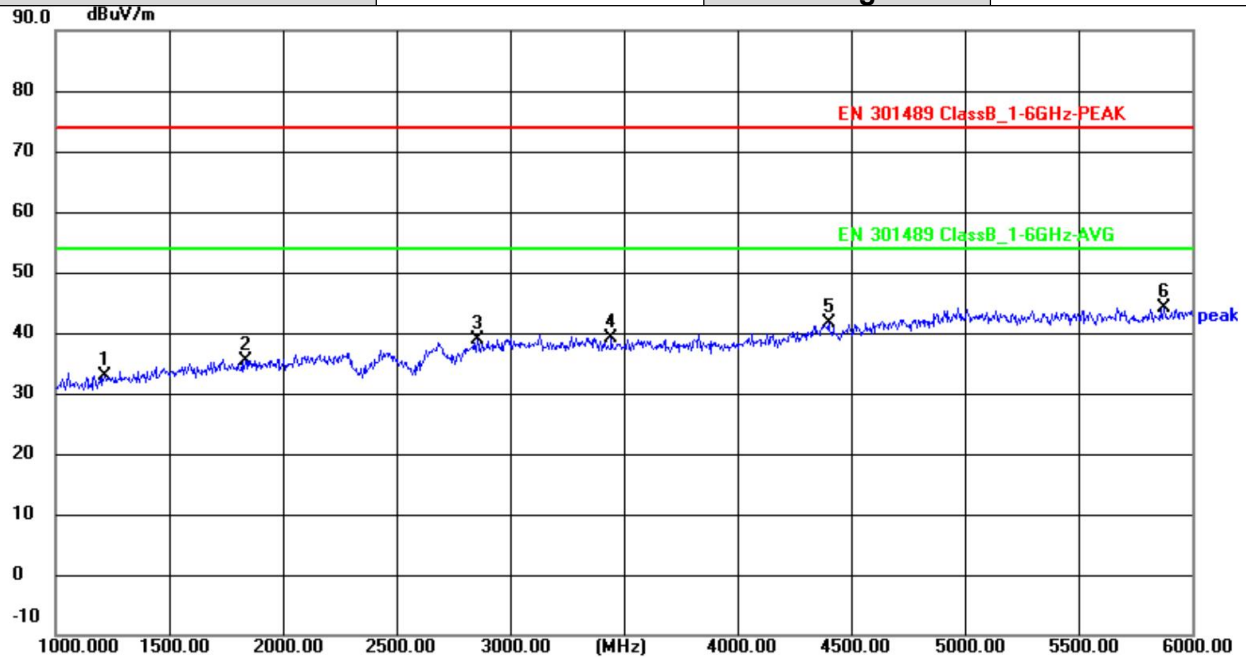
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Test Model	KINGKONG AX	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1215.000	48.17	-15.22	32.95	74.00	-41.05	peak
2	1835.000	49.35	-13.98	35.37	74.00	-38.63	peak
3	2855.000	48.98	-10.10	38.88	74.00	-35.12	peak
4	3445.000	48.61	-9.43	39.18	74.00	-34.82	peak
5	4400.000	48.58	-6.97	41.61	74.00	-32.39	peak
6	5875.000	47.78	-3.57	44.21	74.00	-29.79	peak

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor  
Emission Level = Reading level + Factor  
Margin = Emission Level - Limit





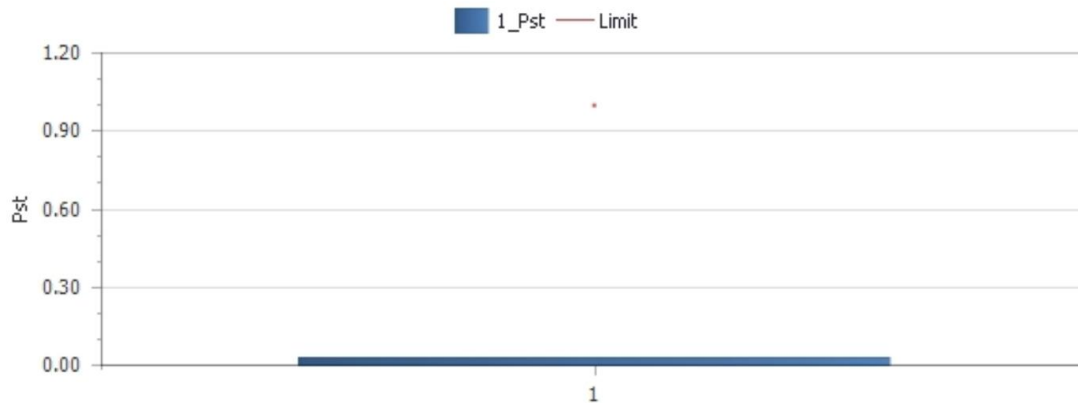
## A.4 Harmonic Current Emissions

Because power of EUT less than 75W, according to standard EN 61000-3-2, Harmonic current unnecessary to test.

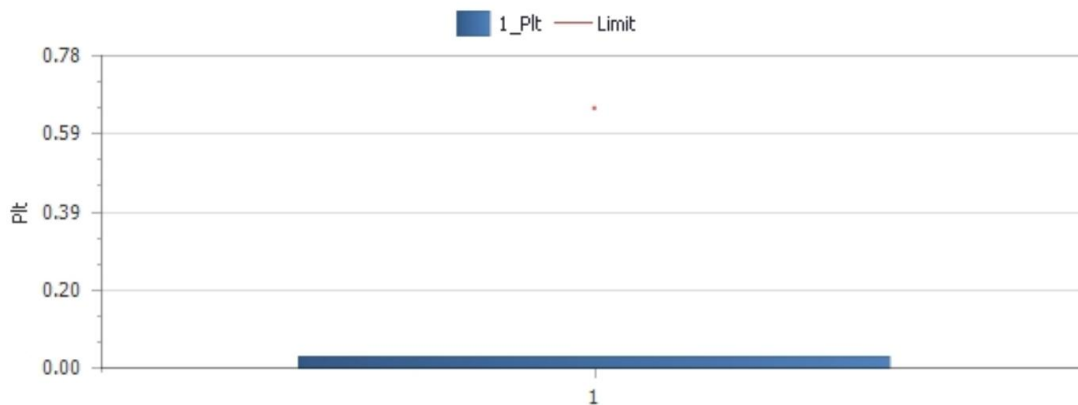
## A.5 Voltage Fluctuation and Flicker

Test Model	KINGKONG AX	Test Mode	TM1
Test Engineer	Paddi Chen	Test Voltage	AC 230V/50Hz
Environmental Conditions	24.5°C, 55.6% RH		

Pst and Limit



Plt and Limit



Relevant Parameter and Judgement During Test Period

Vrms at the end of test (V)	229.89			
Error Max (%)		Test Limit (%)		
T-max (ms)	0.00	Test Limit (ms)	500	Pass
dc (%)	0.00	Test Limit (%)	3.30	Pass
dmax (%)	0.00	Test Limit (%)	4.00	Pass
Pst	0.027	Test Limit	1.000	Pass
Plt	0.027	Test Limit	0.650	Pass



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**A.6 RF Electromagnetic Field (80 MHz - 6000 MHz)**

<b>Test Model</b>	KINGKONG AX	<b>Test Engineer</b>	Paddi Chen
<b>Environmental Conditions</b>	22.2°C, 52.6% RH	<b>Test Voltage</b>	AC 230V/50Hz

**TM1-TM20 Test Result:**

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
GSM/GPRS/EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
GSM/GPRS/EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
DCS/GPRS/EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
DCS/GPRS/EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/HSDPA/HSUPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/HSDPA/HSUPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/HSDPA/HSUPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
WCDMA/HSDPA/HSUPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



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					Left, Back, Top, Bottom	
E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 28 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass



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					Left, Back, Top, Bottom	
E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 38 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 38 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 40 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
E-UTRA Band 40 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass

**TM21-TM40 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Bluetooth	GSM/GPRS/EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	GSM/GPRS/EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	DCS/GPRS/EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	DCS/GPRS/EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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						Top, Bottom	
Bluetooth	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA	Vertical	80-6000	3	See Note	Front, Right,	Pass



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	Band 7 Idle					Left, Back, Top, Bottom	
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 28 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 38 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 38 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 40 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Bluetooth	E-UTRA Band 40 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass

**TM41-TM60 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
2.4G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	GSM/GPRS /EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass



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2.4G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass



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		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 28 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 38 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 38 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 40 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
2.4G WIFI	E-UTRA Band 40 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass

**TM61-TM80 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
5.2G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	GSM/GPRS	Vertical	80-6000	3	See Note	Front, Right,	Pass



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	/EGPRS 900 MHz, Idle					Left, Back, Top, Bottom	
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass



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		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 28 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 38 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 38 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 40 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.2G WIFI	E-UTRA Band 40 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass

**TM81-TM100 Test Result:**

EUT Working Mode		Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
5.8G WIFI	GSM/GPRS /EGPRS 900 MHz, Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	GSM/GPRS /EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	DCS/GPRS/ EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA/ HSDPA/HS UPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass



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5.8G WIFI	WCDMA HSDPA/HS UPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA/ HSDPA/HS UPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	WCDMA HSDPA/HS UPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 3 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 7 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 7 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 8 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass

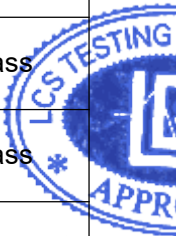


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		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 8 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 20 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 20 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 28 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 28 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 38 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 38 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 40 Traffic	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
5.8G WIFI	E-UTRA Band 40 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
		Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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TM101-TM105 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass



**TM106-TM109 Test Result:**

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Vertical	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back, Top, Bottom	Pass

**TM110 Test Result:**

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	CR	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	CR	Front, Right, Left, Back, Top, Bottom	Pass

**TM111-TM116 Test Result:**

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
Operating Mode	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back, Top, Bottom	Pass



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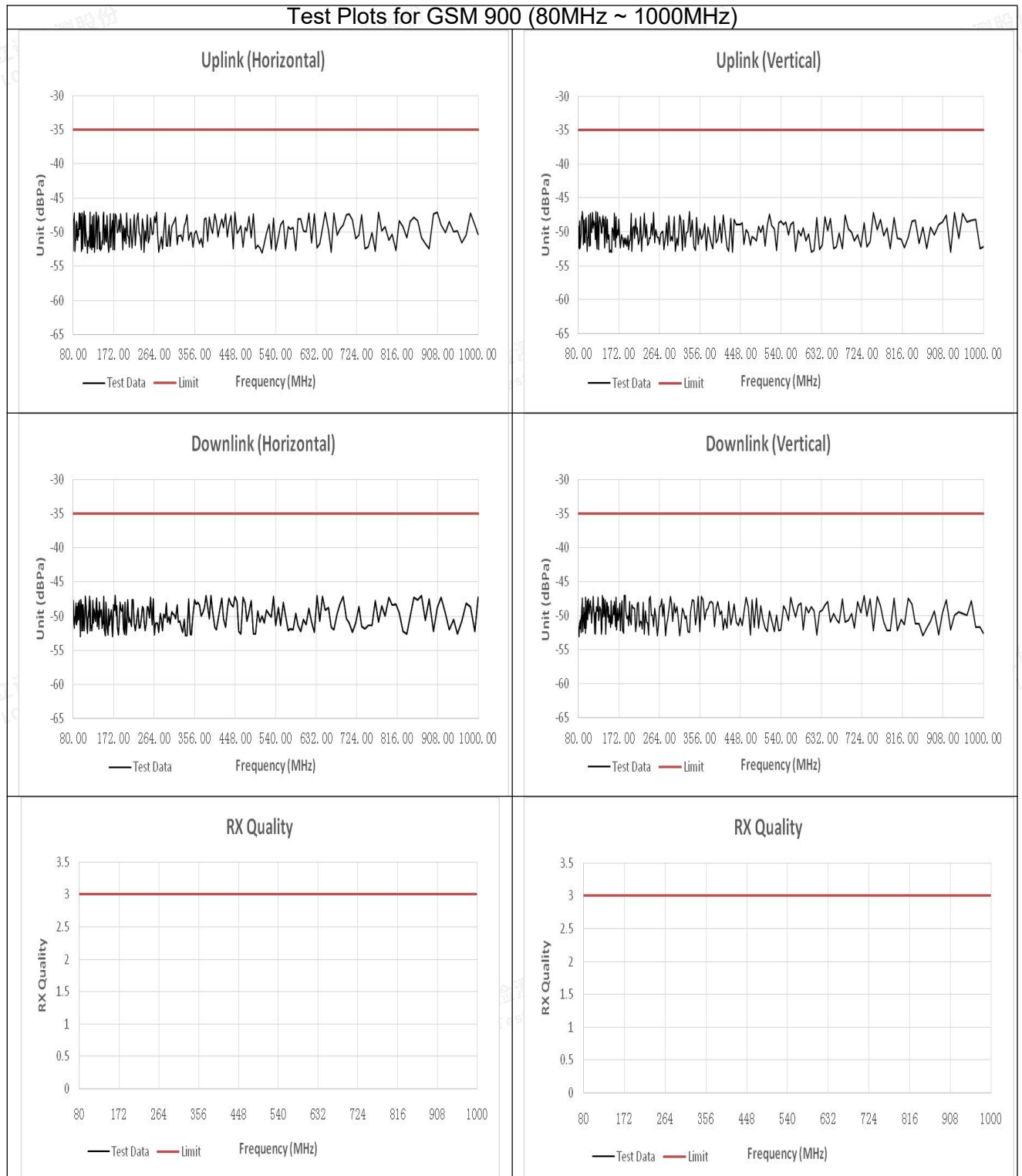
**Special conditions for EMC immunity tests**

EUT Operating Mode		Polarity	Conclusion
GSM 900	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
DCS 1800	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	RX Quality	H	Pass
		V	Pass
WCDMA HSDPA/HSUPA Band I 2100MHz	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	BER	H	Pass
		V	Pass
WCDMA HSDPA/HSUPA Band VIII 900MHz	Uplink	H	Pass
		V	Pass
	Downlink	H	Pass
		V	Pass
	BER	H	Pass
		V	Pass





## Test Plots for GSM 900 (80MHz ~ 1000MHz)



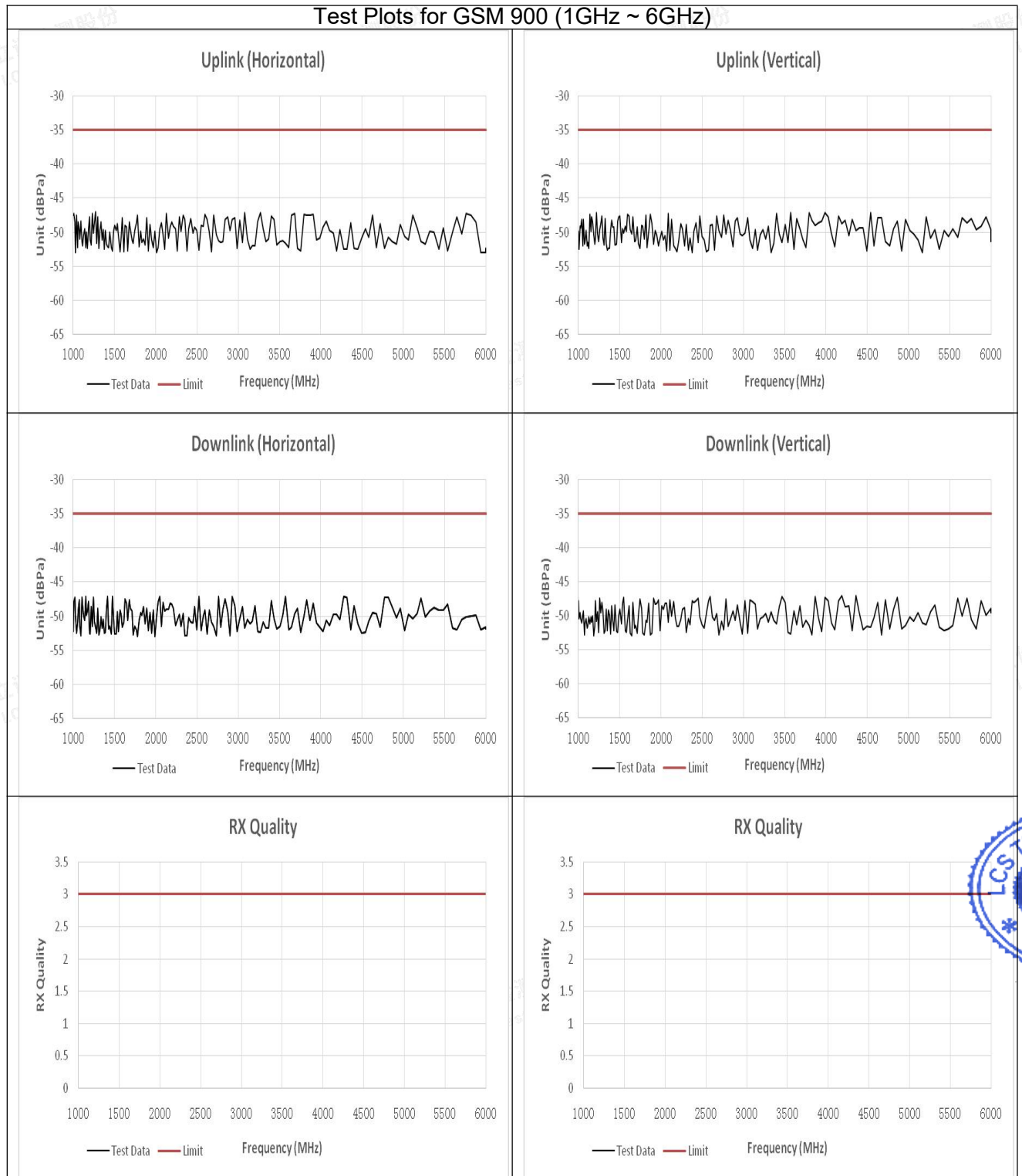
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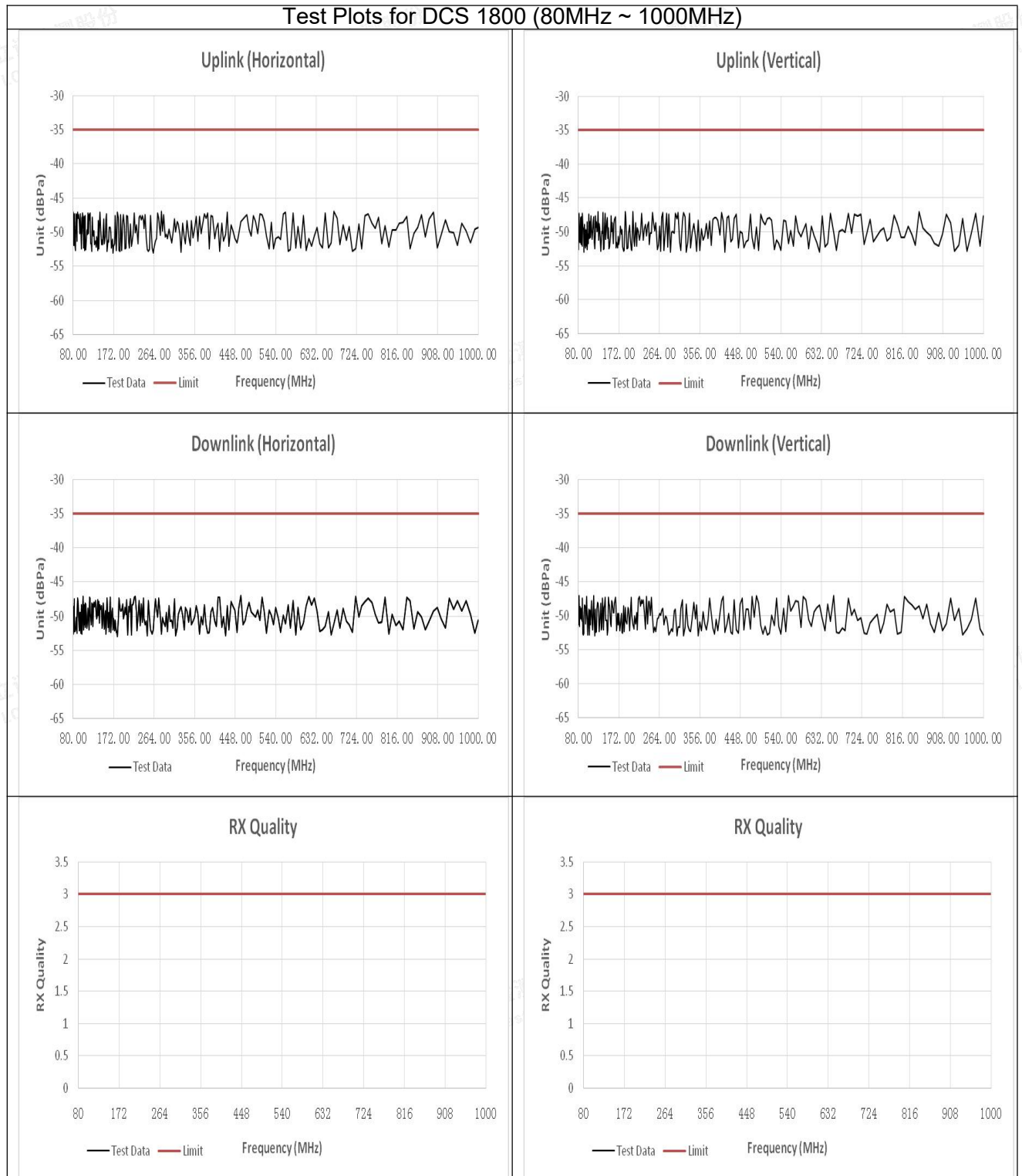


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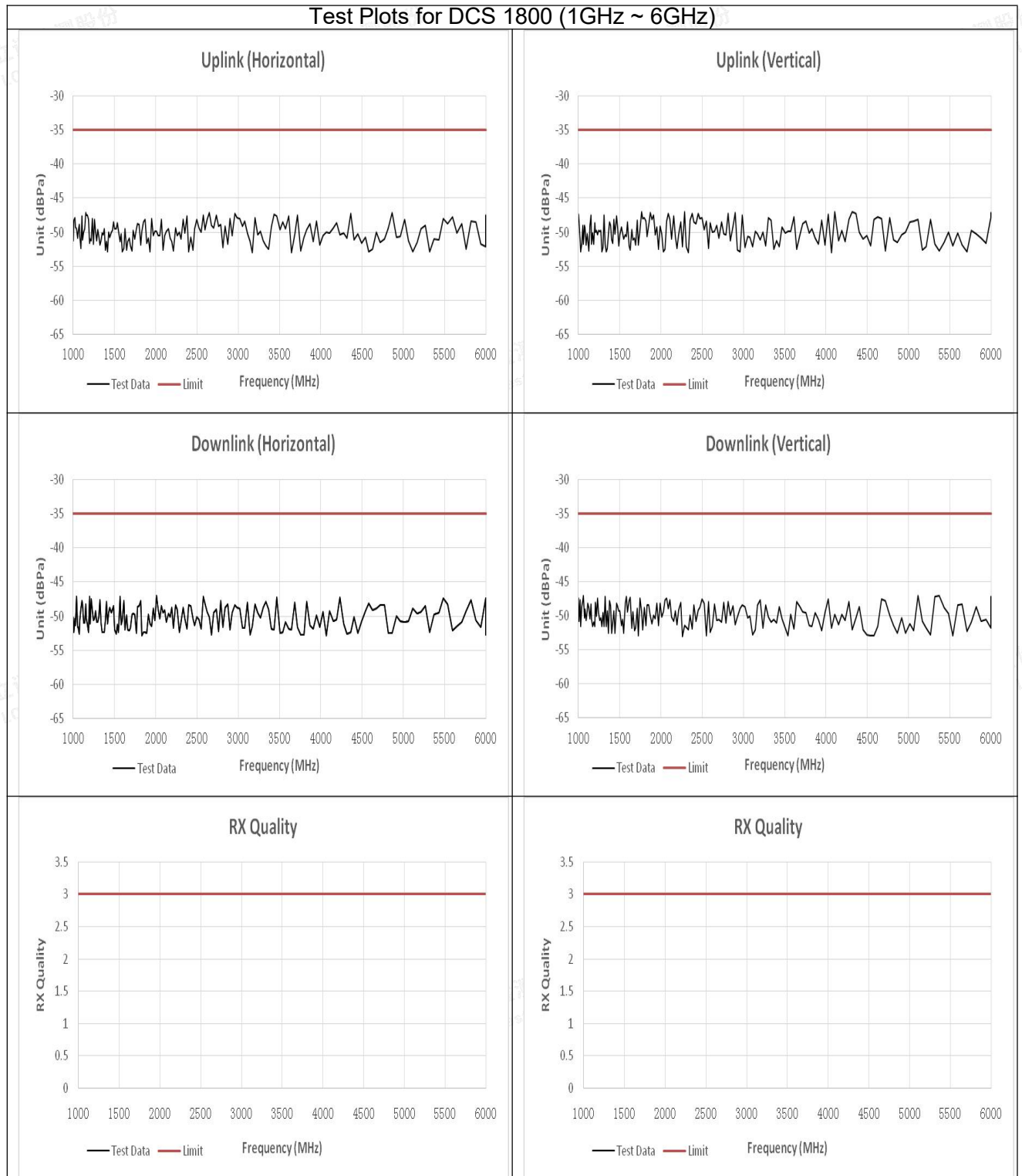


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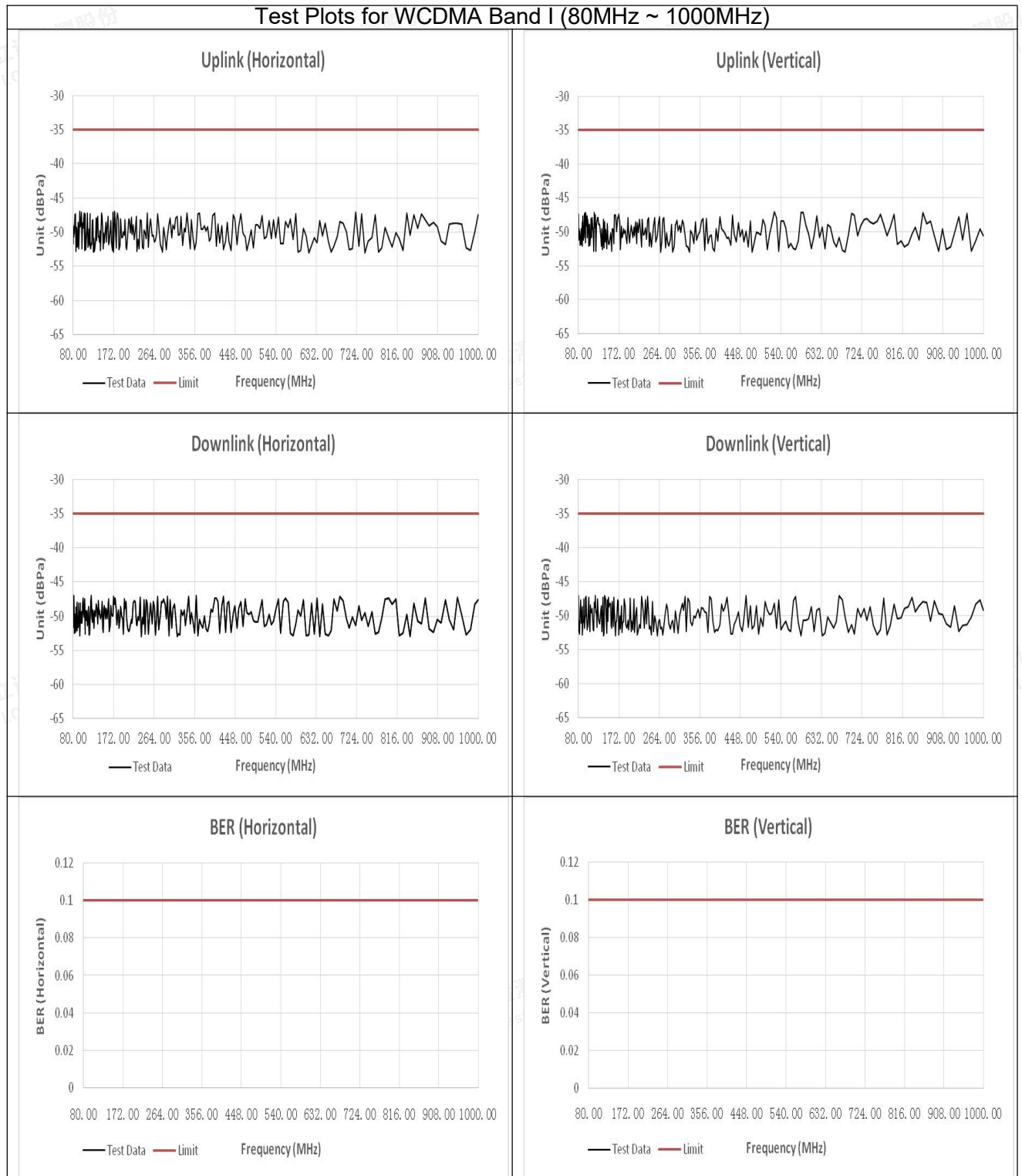


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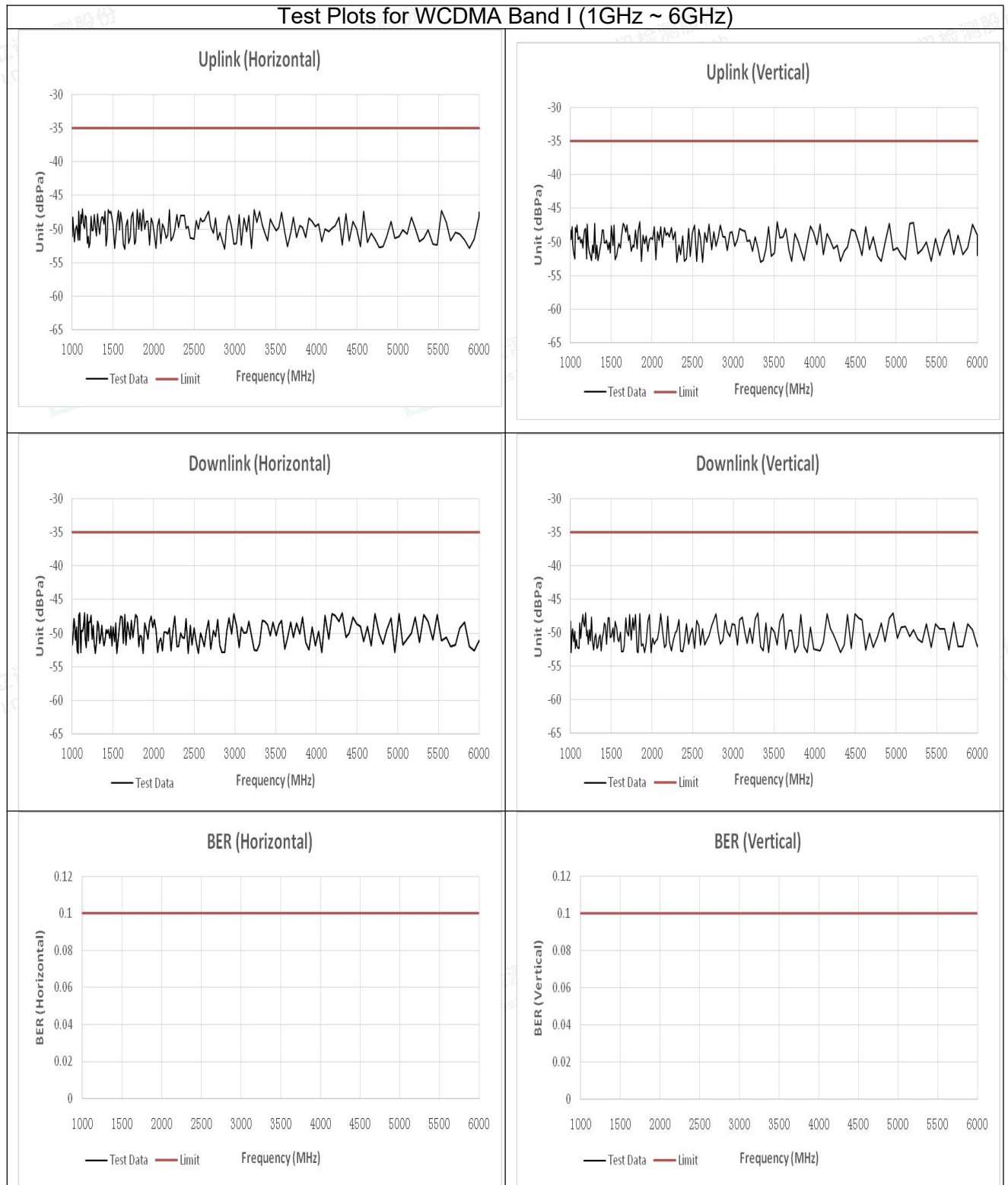
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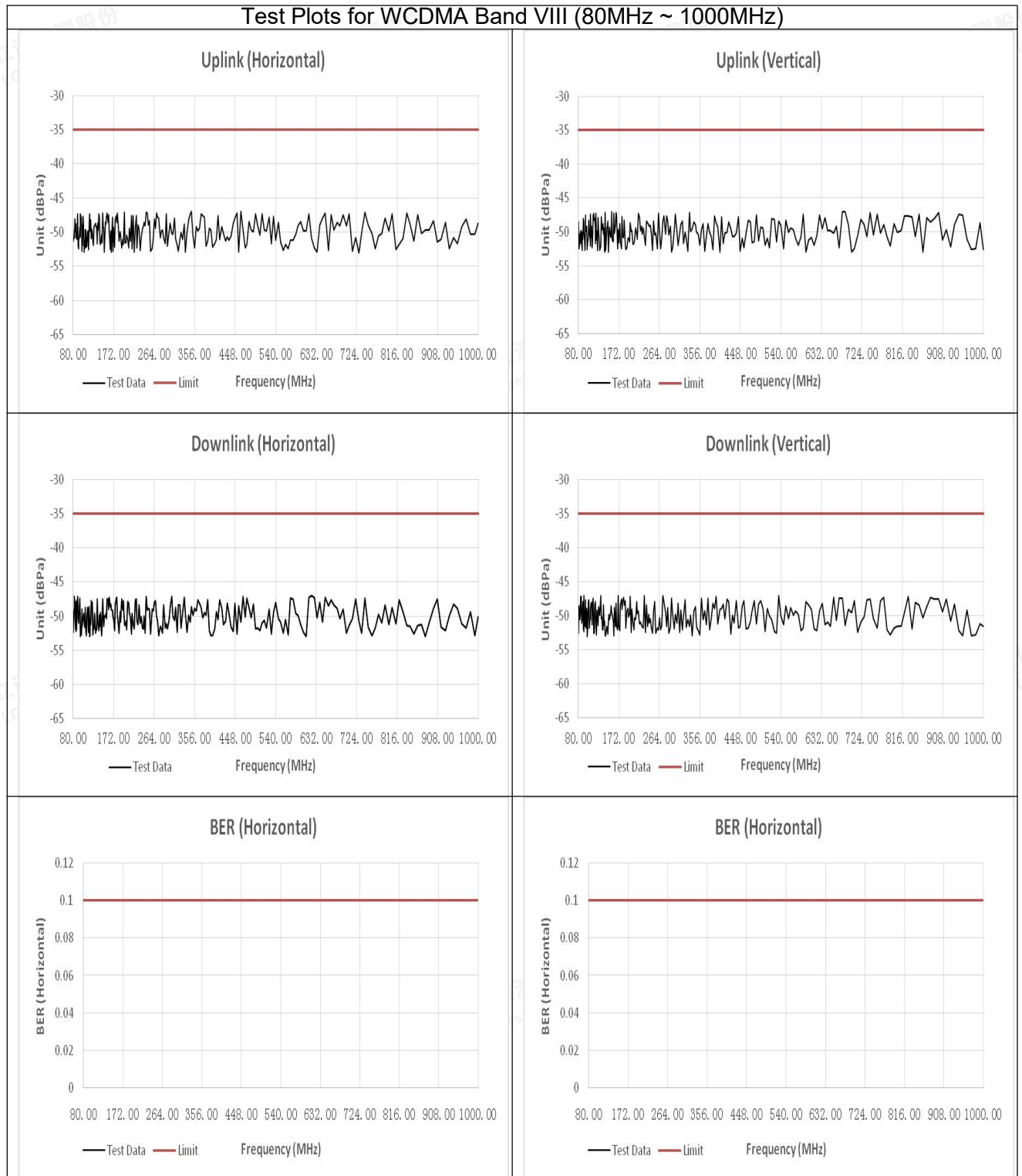
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## Test Plots for WCDMA Band VIII (80MHz ~ 1000MHz)

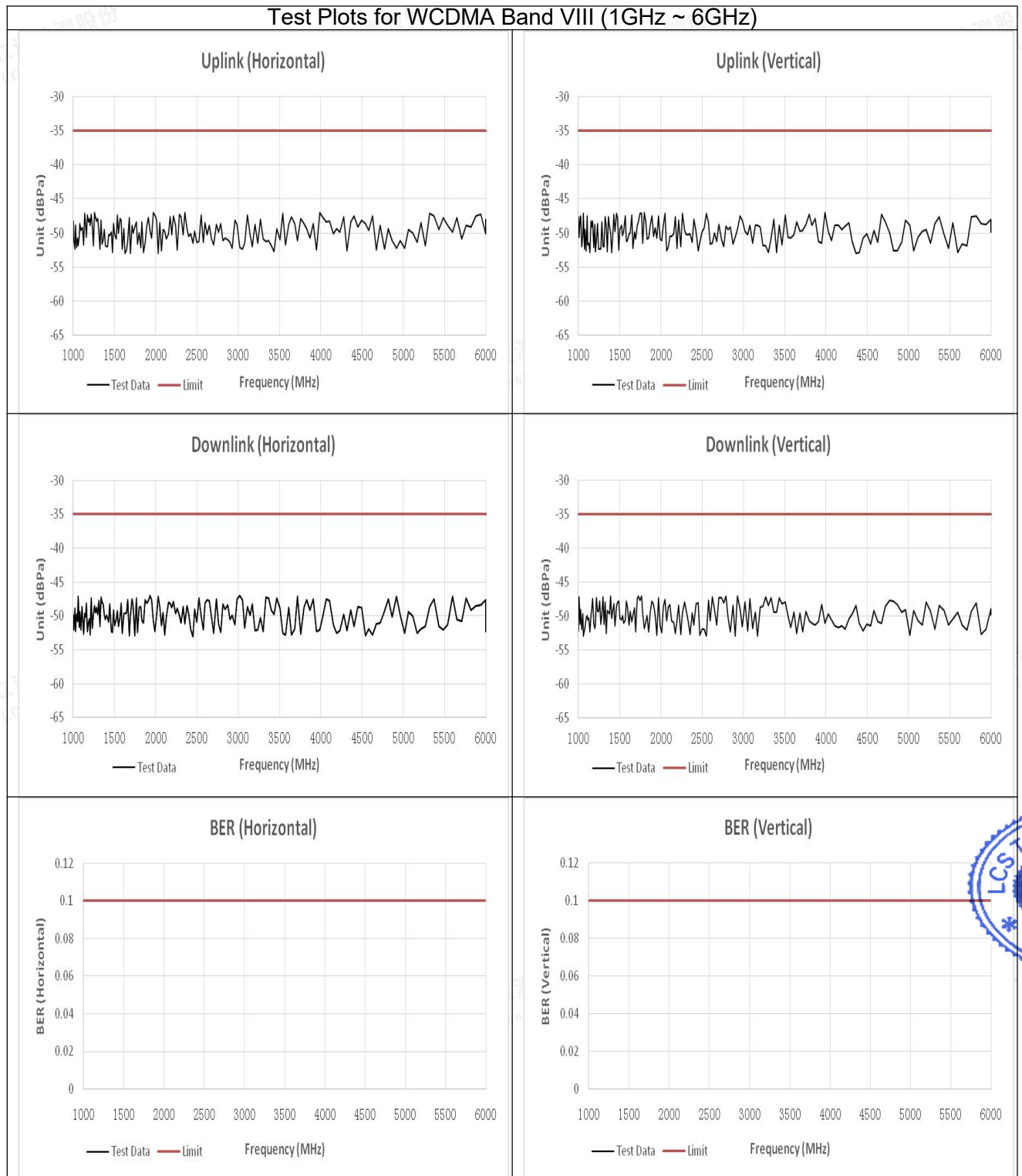


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28/38/40 (In the data transfer mode), the throughput is  $\geq 95\%$  of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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**A.7 Electrostatic Discharge****Electrostatic Discharge Test Results**

<b>Standard</b>	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
<b>Applicant</b>	Shenzhen Huafului Technology Co., Ltd.		
<b>EUT</b>	Smartphone	<b>Temperature</b>	22.4℃
<b>M/N</b>	KINGKONG AX	<b>Humidity</b>	53.9%
<b>Criterion</b>	B	<b>Pressure</b>	1021mbar
<b>Test Mode</b>	TM1-TM116	<b>Test Engineer</b>	Paddi Chen

**TEST RESULT OF TM1-TM105**

<b>Test Voltage</b>	<b>Coupling</b>	<b>Observation</b>	<b>Result (Pass/Fail)</b>
±2KV, ±4kV	Contact Discharge	TT, TR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge HCP	TT, TR	Pass
±2KV, ±4kV	Indirect Discharge VCP	TT, TR	Pass

**TEST RESULT OF TM106-TM110**

<b>Test Voltage</b>	<b>Coupling</b>	<b>Observation</b>	<b>Result (Pass/Fail)</b>
±2KV, ±4kV	Contact Discharge	TR	Pass
±2KV, ±4kV, ±8kV	Air Discharge	TR	Pass
±2KV, ±4kV	Indirect Discharge HCP	TR	Pass
±2KV, ±4kV	Indirect Discharge VCP	TR	Pass

**TEST RESULT OF TM111-TM116**

<b>Test Voltage</b>	<b>Coupling</b>	<b>Result (Pass/Fail)</b>
±2KV, ±4kV	Contact Discharge	Pass
±2KV, ±4kV, ±8kV	Air Discharge	Pass
±2KV, ±4kV	Indirect Discharge HCP	Pass
±2KV, ±4kV	Indirect Discharge VCP	Pass

Note: The EUT performance complied with performance criteria for TT&TR to MS Function and there is no any degradation of performance and function.



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## A.8 Electrical Fast Transient Immunity

### Electrical Fast Transient/Burst Test Results

Standard	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Smartphone	Temperature	22.9℃
M/N	KINGKONG AX	Humidity	52.7%
Test Mode	TM1-TM116	Criterion	B
Test Engineer	Paddi Chen		

#### TEST RESULT OF TM1-TM105

Line	Test Voltage	Polarity	Observation	Result (Pass/Fail)
L	1KV	+/-	TT, TR	Pass
N	1KV	+/-	TT, TR	Pass
L-N	1KV	+/-	TT, TR	Pass

#### TEST RESULT OF TM106-TM110

Line	Test Voltage	Polarity	Observation	Result (Pass/Fail)
L	1KV	+/-	TR	Pass
N	1KV	+/-	TR	Pass
L-N	1KV	+/-	TR	Pass

#### TEST RESULT OF TM111-TM116

Line	Test Voltage	Polarity	Result (Pass/Fail)
L	1KV	+/-	Pass
N	1KV	+/-	Pass
L-N	1KV	+/-	Pass



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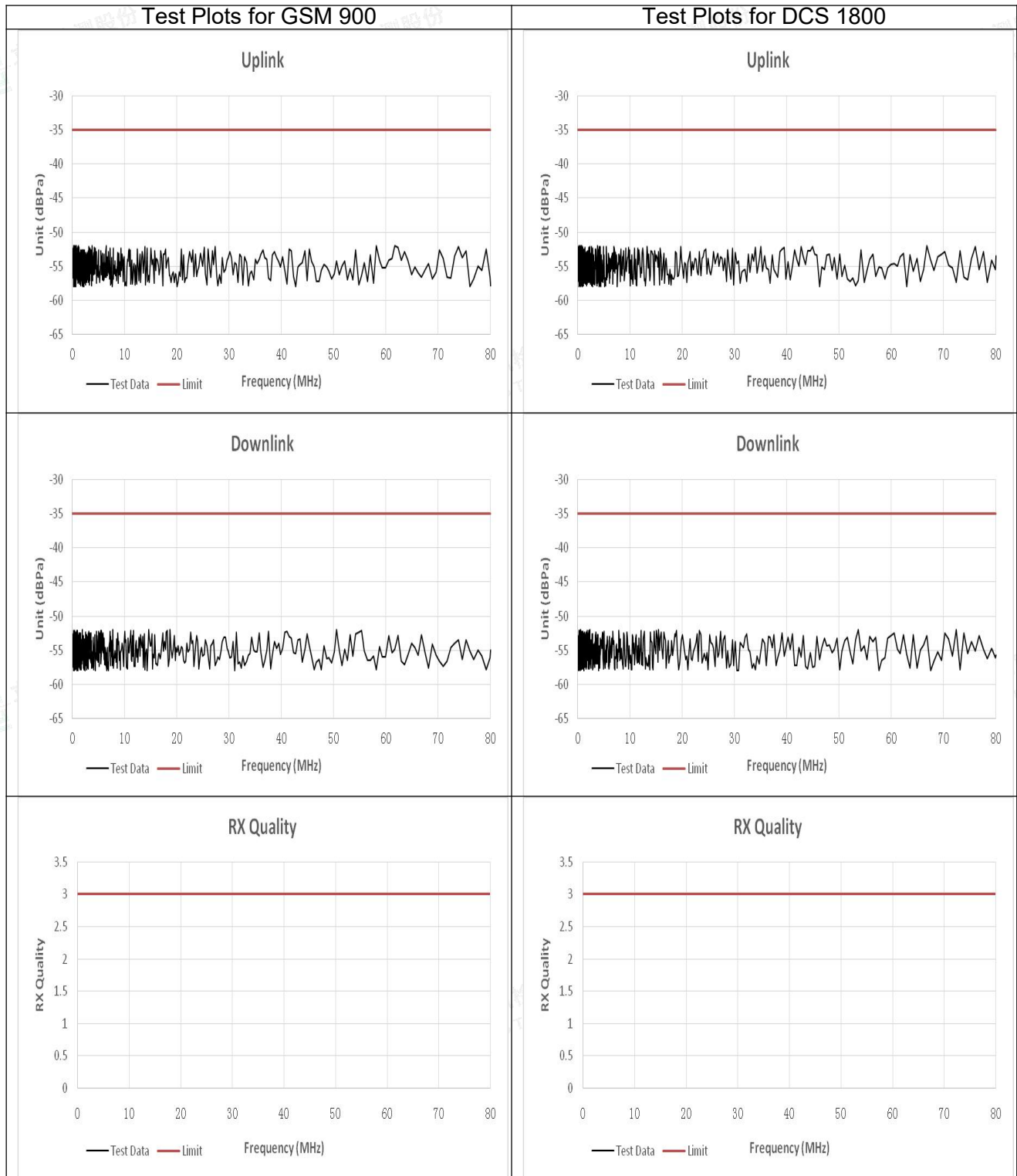
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**A.9 RF Common Mode**

Injected Currents Susceptibility Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6		
Applicant	Shenzhen Huafului Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.2°C
M/N	KINGKONG AX	Humidity	53.6%
Test Mode	TM1-TM116	Criterion	A
Test Engineer	Paddi Chen		

TEST RESULT OF TM1-TM105				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass
TEST RESULT OF TM106-TM110				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CR	Pass
TEST RESULT OF TM111-TM116				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Result (Pass/Fail)	
0.15 ~ 80	3V	AC Mains	Pass	
Remark:				
1. Modulation Signal:1kHz 80% AM				



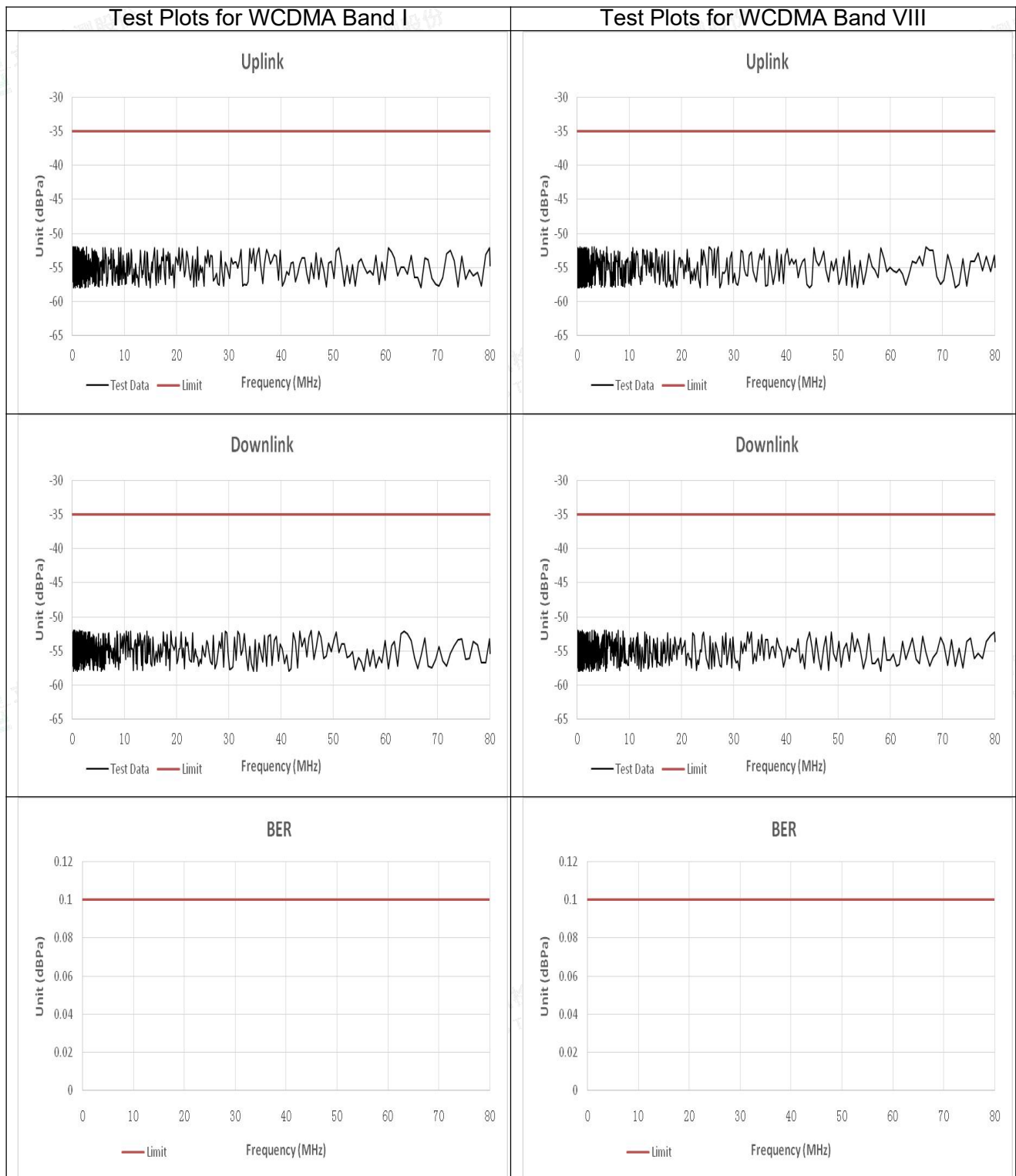


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28/38/40 (In the data transfer mode), the throughput is  $\geq 95\%$  of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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**A.10 Surges, Line to Line and Line to Ground**

Surge Immunity Test Result			
Standard	<input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5		
Applicant	Shenzhen Huafului Technology Co., Ltd.		
EUT	Smartphone	Temperature	24.6℃
M/N	KINGKONG AX	Humidity	52.3%
Test Mode	TM1-TM116	Criterion	B
Test Engineer	Paddi Chen		

TEST RESULT OF TM1-TM105						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Observation	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	TT, TR	Pass
	-	0°, 90°, 180°, 270°	5	1.0	TT, TR	Pass
TEST RESULT OF TM106-TM110						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Observation	Result (Pass/Fail)
L-N	+	0°, 90°, 180°, 270°	5	1.0	TR	Pass
	-	0°, 90°, 180°, 270°	5	1.0	TR	Pass
TEST RESULT OF TM111-TM116						
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result (Pass/Fail)	
L-N	+	0°, 90°, 180°, 270°	5	1.0	Pass	
	-	0°, 90°, 180°, 270°	5	1.0	Pass	
Note: Verification shall be performed on the generators and coupling/decoupling network prior to the test.						





## A.11 Voltage Dips/Interruptions Immunity Test

Voltage Dips And Interruptions Test Results			
Standard	<input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11		
Applicant	Shenzhen Huafului Technology Co., Ltd.		
EUT	Smartphone	Temperature	23.5℃
M/N	KINGKONG AX	Humidity	54.4%
Test Mode	TM1-TM116	Criterion	B&C
Test Engineer	Paddi Chen		

TEST RESULT OF TM1-TM105				
Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	Duration (in periods)	Observation	Result (Pass/Fail)
0	100	0.5P	TT, TR	Pass
0	100	1P	TT, TR	Pass
70	30	25P	TT, TR	Pass
0	100	250P	TT, TR	Pass

TEST RESULT OF TM106-TM110				
Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	Duration (in periods)	Observation	Result (Pass/Fail)
0	100	0.5P	TR	Pass
0	100	1P	TR	Pass
70	30	25P	TR	Pass
0	100	250P	TR	Pass

TEST RESULT OF TM111-TM116			
Test Level % U <sub>T</sub>	Voltage Dips & Short Interruptions % U <sub>T</sub>	Duration (in periods)	Result (Pass/Fail)
0	100	0.5P	Pass
0	100	1P	Pass
70	30	25P	Pass
0	100	250P	Pass



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