



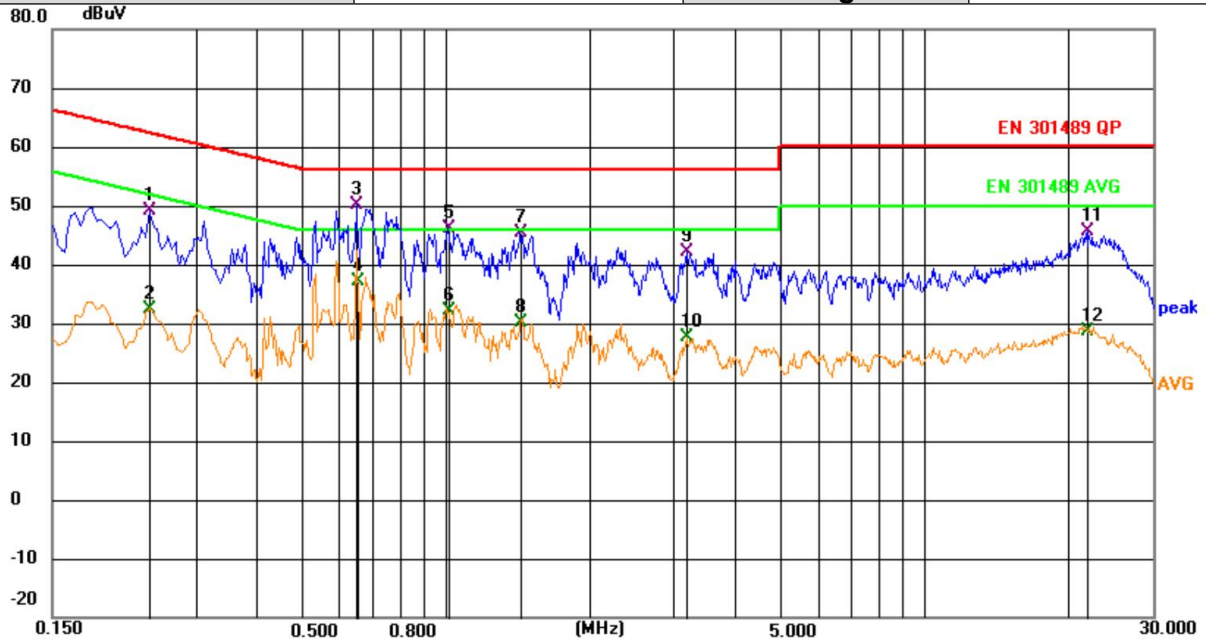
Appendix A for Emission and Immunity test results

Product Name: Tablet

Test Model: TAB 40

A.1 Line Conducted Emission

Test Model	TAB 40	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Taylor Hu
Pol.	Line	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2401	29.61	19.63	49.24	62.09	-12.85	QP	
2		0.2401	12.87	19.63	32.50	52.09	-19.59	AVG	
3	*	0.6496	30.57	19.65	50.22	56.00	-5.78	QP	
4		0.6541	17.49	19.65	37.14	46.00	-8.86	AVG	
5		1.0051	26.36	19.65	46.01	56.00	-9.99	QP	
6		1.0051	12.55	19.65	32.20	46.00	-13.80	AVG	
7		1.4281	25.66	19.66	45.32	56.00	-10.68	QP	
8		1.4281	10.54	19.66	30.20	46.00	-15.80	AVG	
9		3.1831	22.35	19.70	42.05	56.00	-13.95	QP	
10		3.1831	7.86	19.70	27.56	46.00	-18.44	AVG	
11		22.0606	25.56	20.09	45.65	60.00	-14.35	QP	
12		22.0606	8.56	20.09	28.65	50.00	-21.35	AVG	



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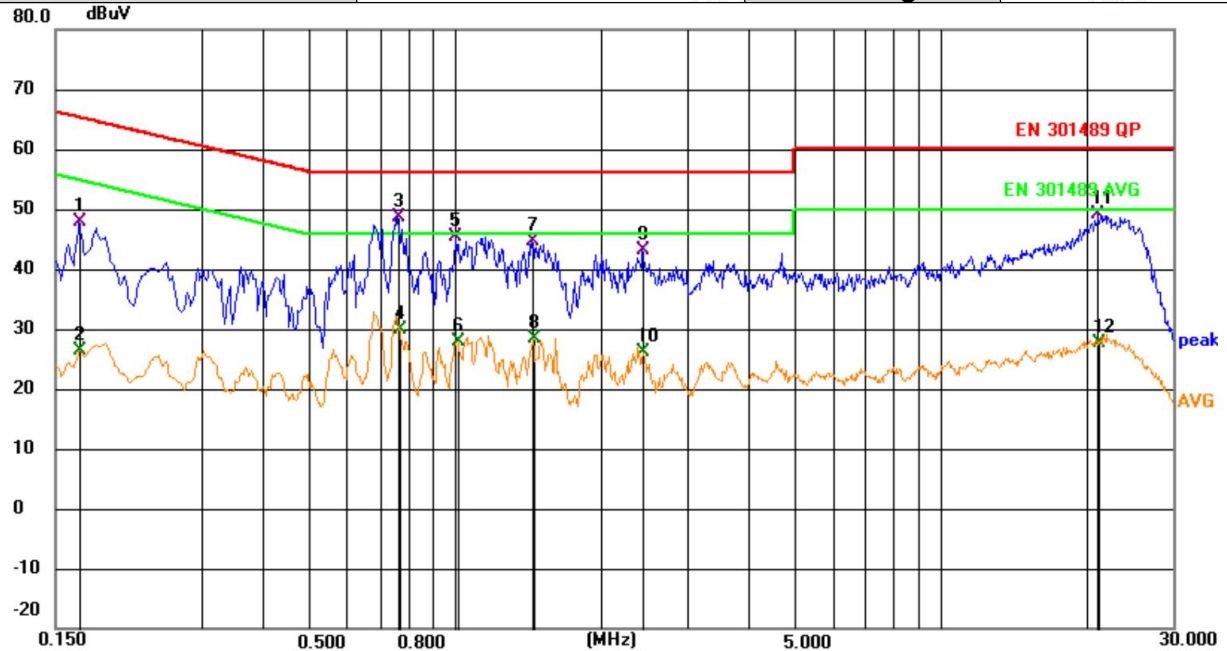
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Test Model	TAB 40	Test Mode	TM1
Environmental Conditions	23.5°C, 53.6% RH	Test Engineer	Taylor Hu
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1681	28.13	19.63	47.76	65.05	-17.29	QP	
2		0.1681	6.79	19.63	26.42	55.05	-28.63	AVG	
3	*	0.7621	28.96	19.64	48.60	56.00	-7.40	QP	
4		0.7666	10.26	19.64	29.90	46.00	-16.10	AVG	
5		1.0005	25.78	19.65	45.43	56.00	-10.57	QP	
6		1.0051	8.16	19.65	27.81	46.00	-18.19	AVG	
7		1.4371	24.96	19.66	44.62	56.00	-11.38	QP	
8		1.4416	8.64	19.66	28.30	46.00	-17.70	AVG	
9		2.4226	23.44	19.70	43.14	56.00	-12.86	QP	
10		2.4451	6.39	19.70	26.09	46.00	-19.91	AVG	
11		21.0886	28.95	20.15	49.10	60.00	-10.90	QP	
12		21.1876	7.54	20.14	27.68	50.00	-22.32	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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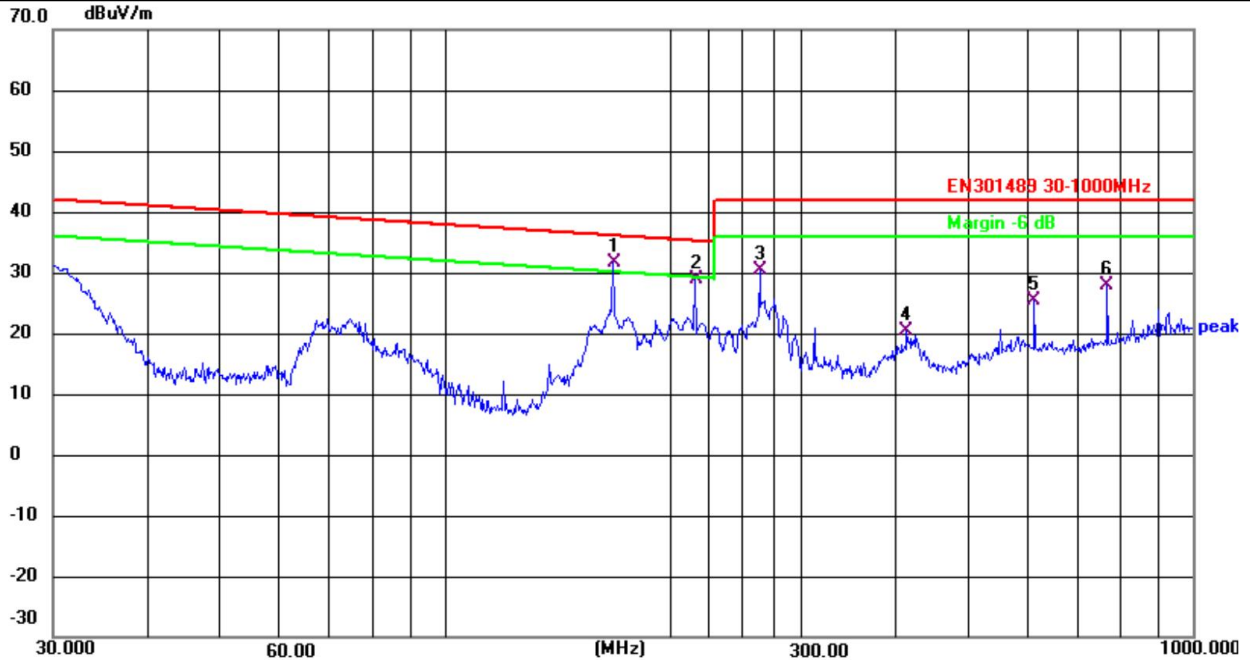
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A.3 Radiated Disturbance

Test Model	TAB 40	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Taylor Hu
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	167.8242	51.12	-19.56	31.56	36.08	-4.52	QP
2	216.0239	45.98	-16.98	29.00	35.22	-6.22	QP
3	263.8190	45.92	-15.48	30.44	42.00	-11.56	QP
4	414.7223	34.78	-14.43	20.35	42.00	-21.65	QP
5	614.2142	36.25	-10.80	25.45	42.00	-16.55	QP
6	768.7481	38.03	-10.14	27.89	42.00	-14.11	QP



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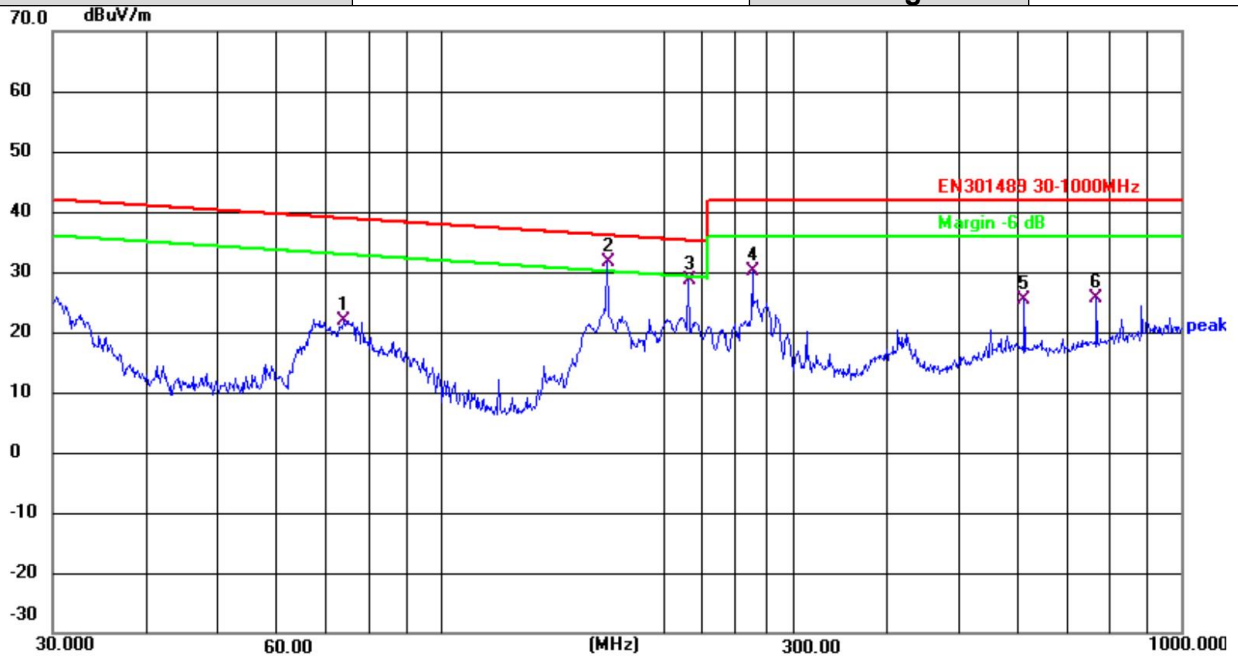
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Test Model	TAB 40	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Horizontal	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	74.1350	41.61	-19.64	21.97	38.89	-16.92	QP
2	167.8241	51.12	-19.56	31.56	36.08	-4.52	QP
3	216.0238	45.65	-16.98	28.67	35.22	-6.55	QP
4	263.8190	45.64	-15.48	30.16	42.00	-11.84	QP
5	614.2142	36.25	-10.80	25.45	42.00	-16.55	QP
6	768.7481	35.80	-10.14	25.66	42.00	-16.34	QP

Note: Margin= Reading Level + Correct Factor – Limit

Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor



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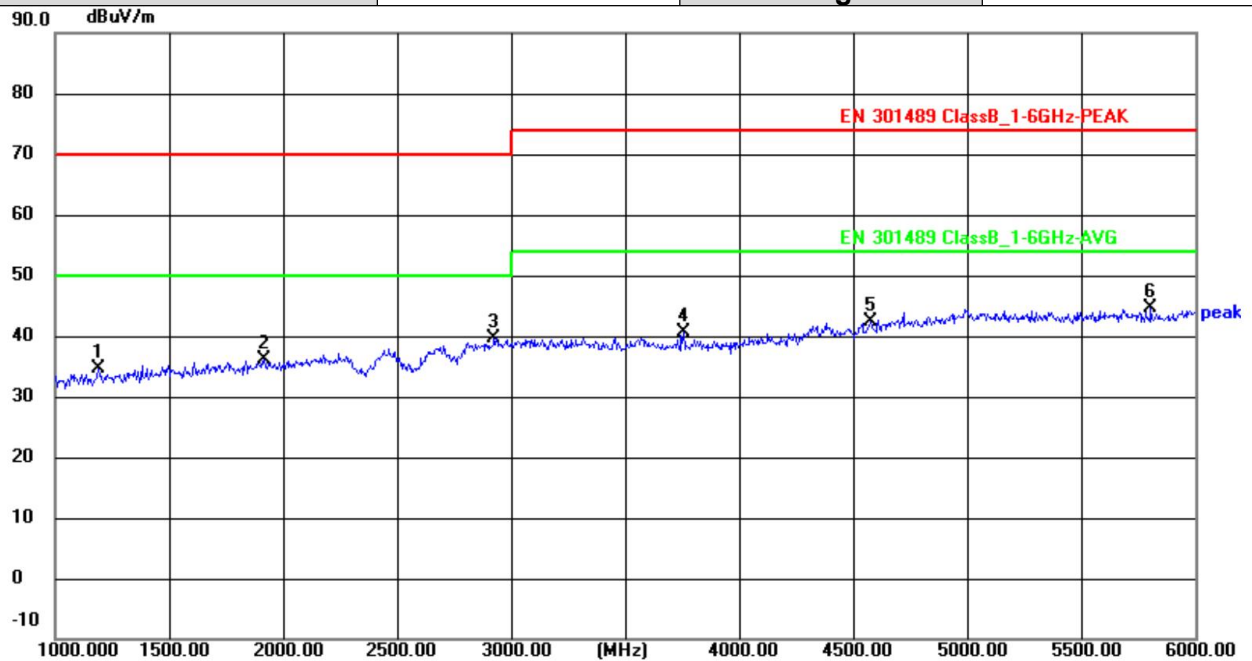
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Test Model	TAB 40	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9℃, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1190.000	49.90	-15.22	34.68	70.00	-35.32	peak
2	1915.000	49.74	-13.55	36.19	70.00	-33.81	peak
3	2925.000	49.47	-9.85	39.62	70.00	-30.38	peak
4	3755.000	49.55	-8.96	40.59	74.00	-33.41	peak
5	4575.000	48.67	-6.21	42.46	74.00	-31.54	peak
6	5805.000	48.13	-3.50	44.63	74.00	-29.37	peak



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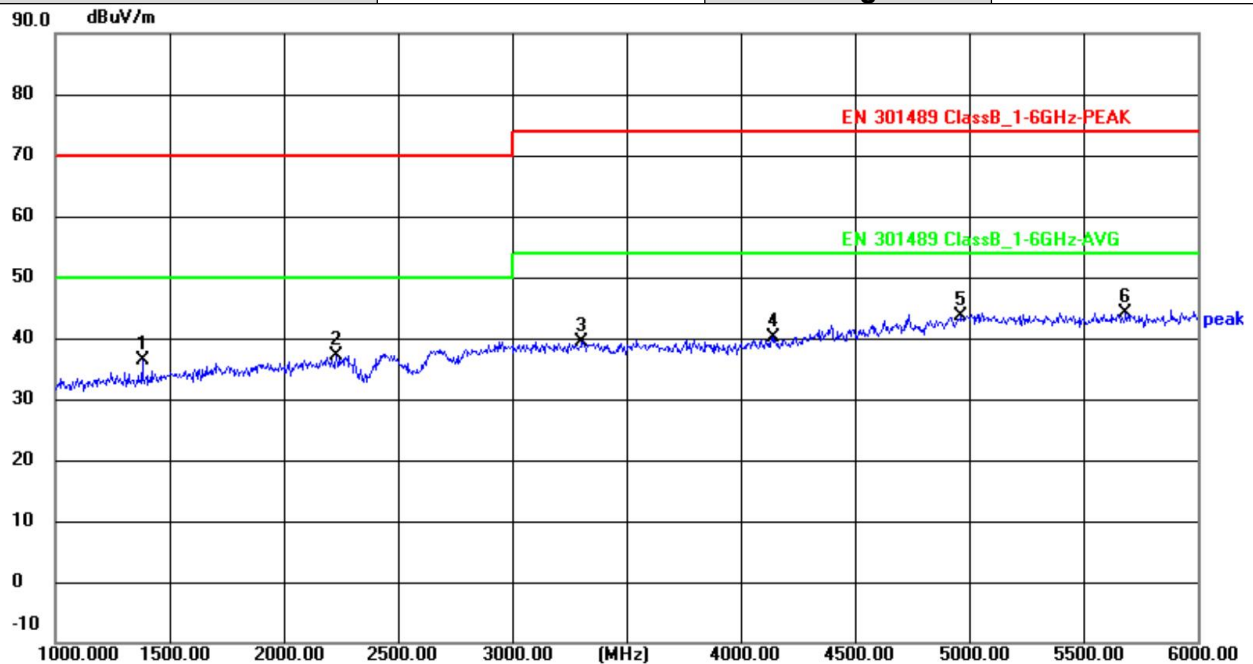
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Test Model	TAB 40	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.9°C, 52.1% RH	Test Engineer	Taylor Hu
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1380.000	51.69	-15.25	36.44	70.00	-33.56	peak
2	2230.000	49.33	-12.30	37.03	70.00	-32.97	peak
3	3305.000	48.94	-9.49	39.45	74.00	-34.55	peak
4	4140.000	48.19	-7.99	40.20	74.00	-33.80	peak
5	4965.000	47.82	-4.28	43.54	74.00	-30.46	peak
6	5685.000	47.59	-3.38	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



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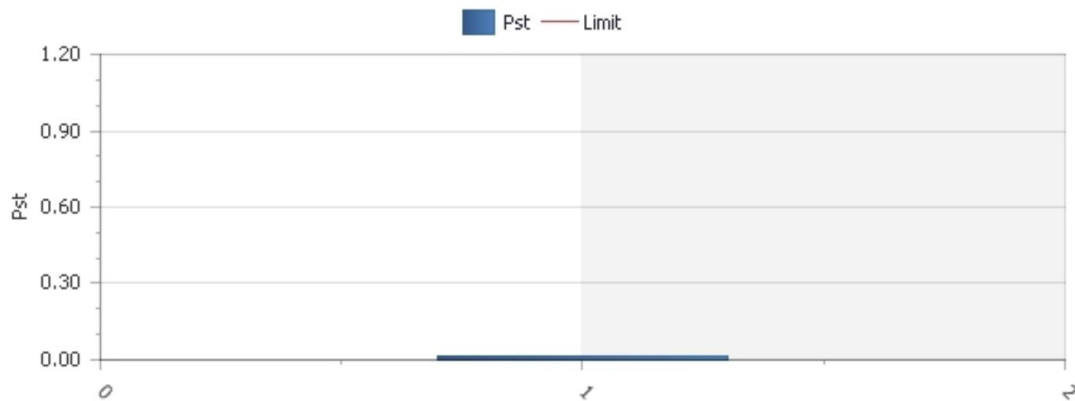
A.4 Harmonic Current Emissions

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

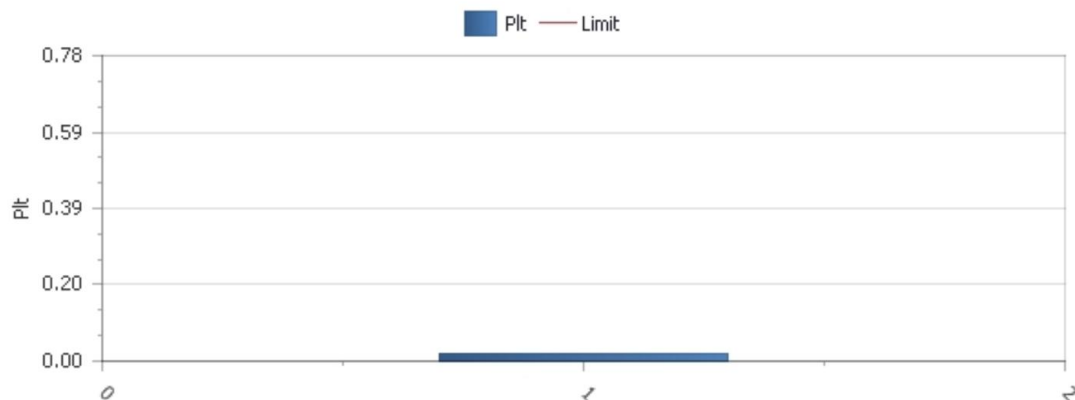
A.5 Voltage Fluctuation and Flicker

Test Model	TAB 40	Test Mode	TM1
Test Engineer	Taylor Hu	Test Voltage	AC 230V/50Hz
Environmental Conditions	23.3°C, 53.2% RH		

Pst and Limit



Plt and Limit



Relevant Parameter and Judgement During Test Period

Vrms at the end of test (V)	230.05			
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	0.017	Test Limit	1.000	Pass
Plt	0.017	Test Limit	0.650	Pass



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

Test Model	TAB 40	Test Engineer	Taylor Hu
Environmental Conditions	23.2°C, 52.4% RH	Test Voltage	AC 230V/50Hz

TM1-TM17 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	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
GSM/GPRS/EGPRS 900 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
DCS/GPRS/EGPRS 1800 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
DCS/GPRS/EGPRS 1800 MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
WCDMA/HSDPA/HSUPA Band I 2100 MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
WCDMA/HSDPA/HSUPA Band I 2100MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
WCDMA/HSDPA/HSUPA Band VIII 900MHz, Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
WCDMA/HSDPA/HSUPA Band VIII 900MHz, Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 1 Traffic	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass
E-UTRA Band 1 Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
E-UTRA Band 3 Traffic	Vertical	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	CT,CR	Front, Right, Left, Back	Pass
E-UTRA Band 3	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass



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

TM18-TM21 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	Pass
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back	Pass



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**TM22-TM24 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	Pass
	Horizontal	80-6000	3	CR	Front, Right, Left, Back	Pass
	Vertical	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back	Pass
	Horizontal	80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test)	3	CR	Front, Right, Left, Back	Pass

TM25-TM30 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	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass
Idle	Vertical	80-6000	3	See Note	Front, Right, Left, Back	Pass
	Horizontal	80-6000	3	See Note	Front, Right, Left, Back	Pass



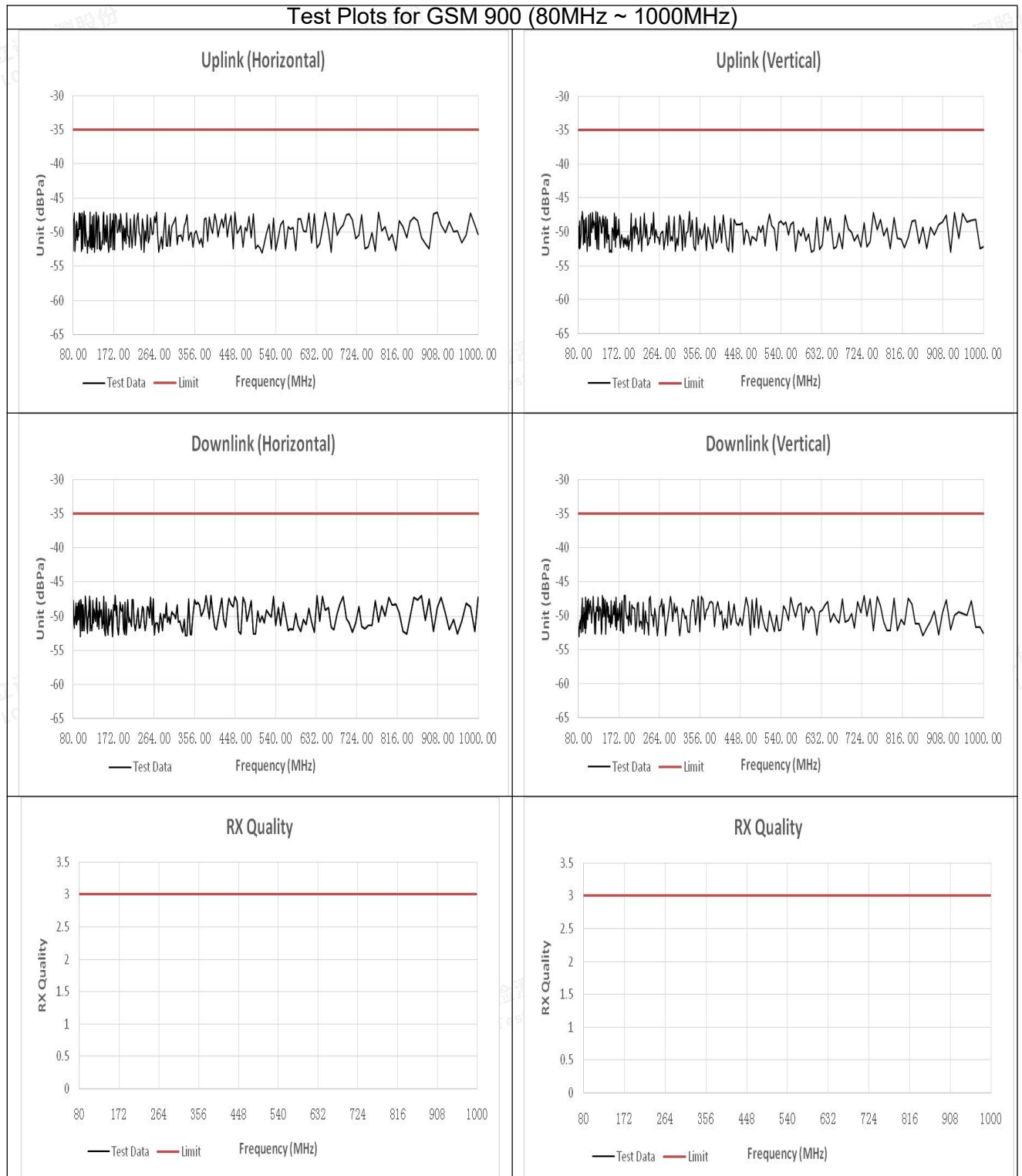
**Special conditions for EMC immunity tests**

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)

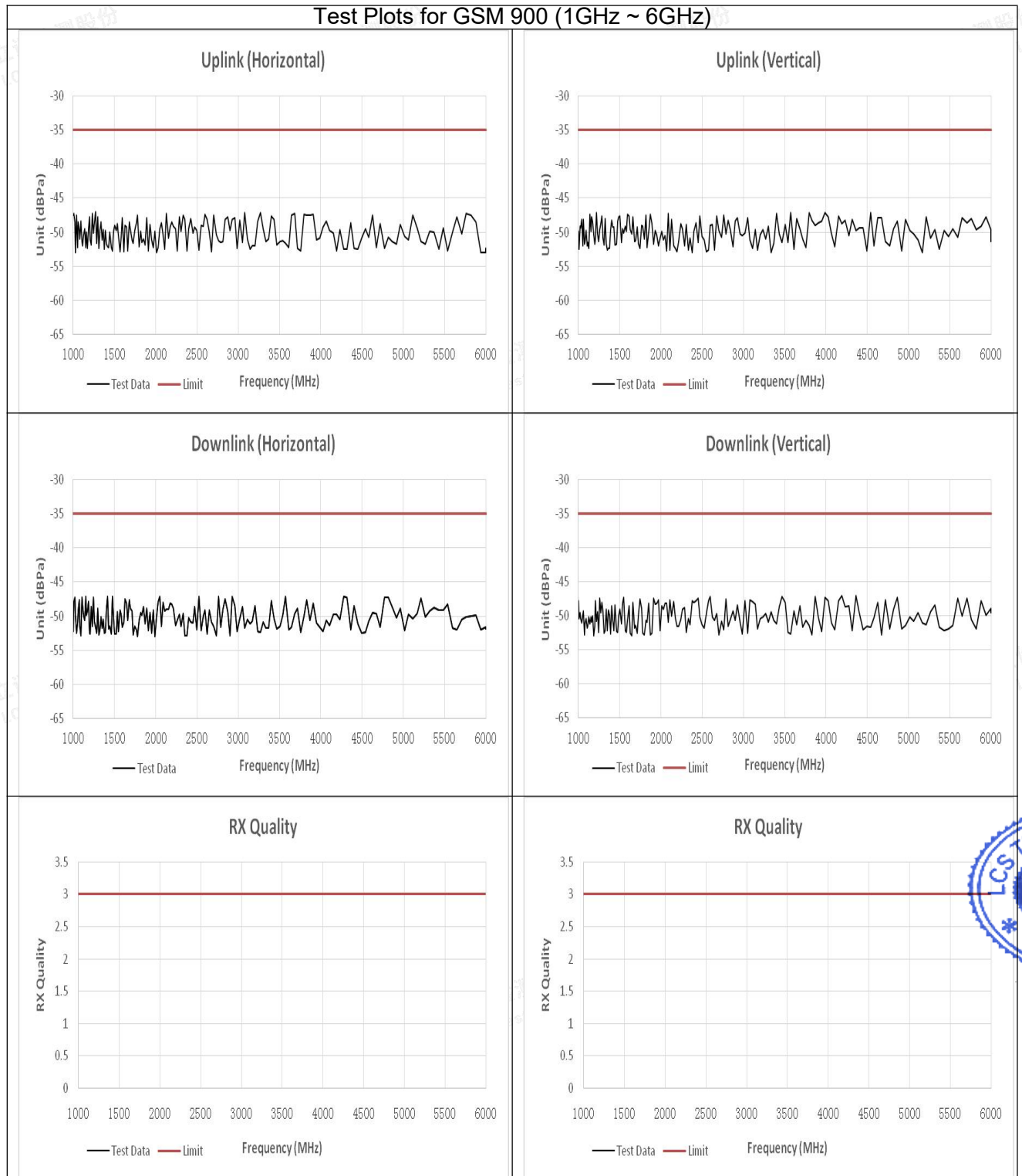


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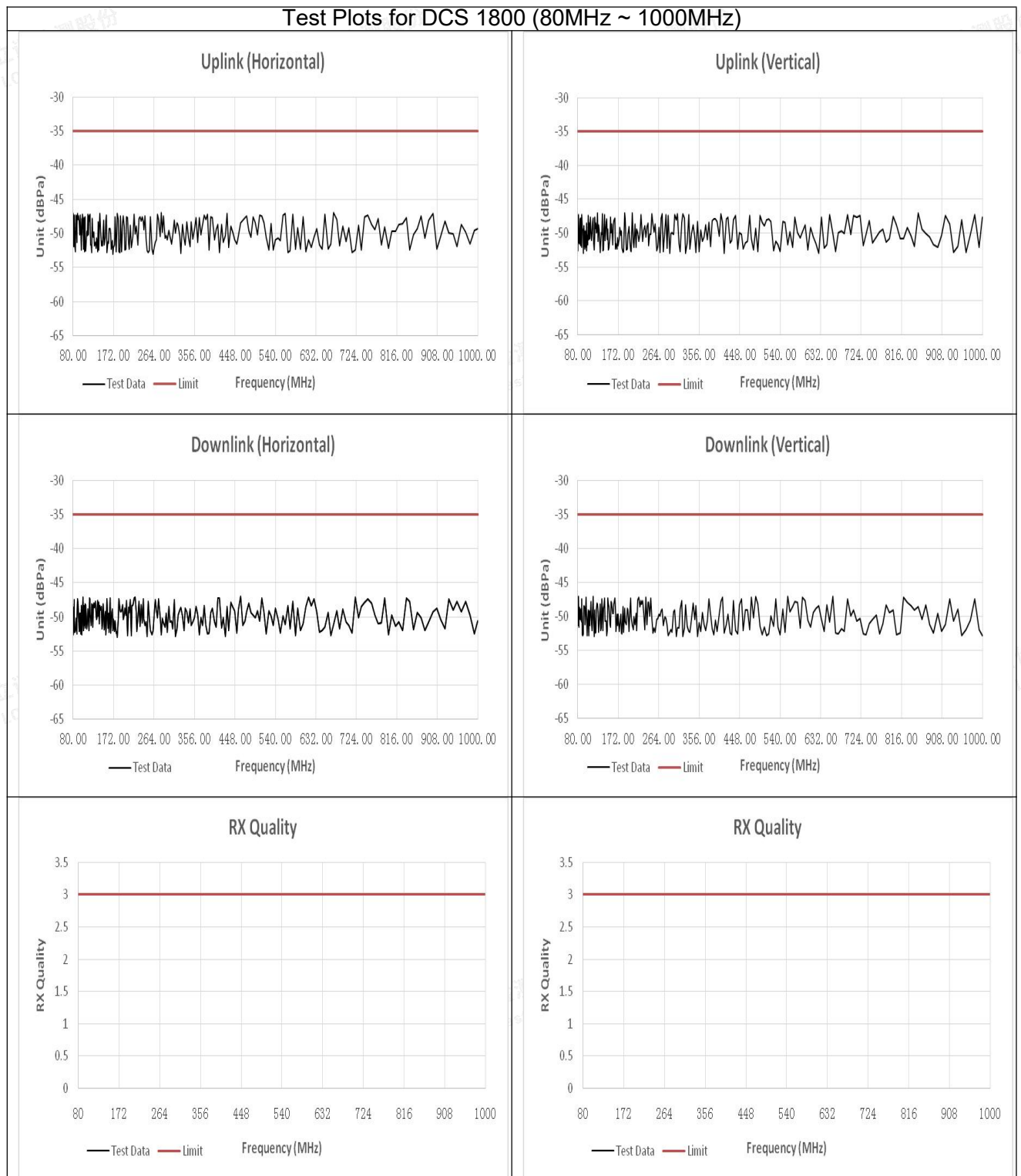


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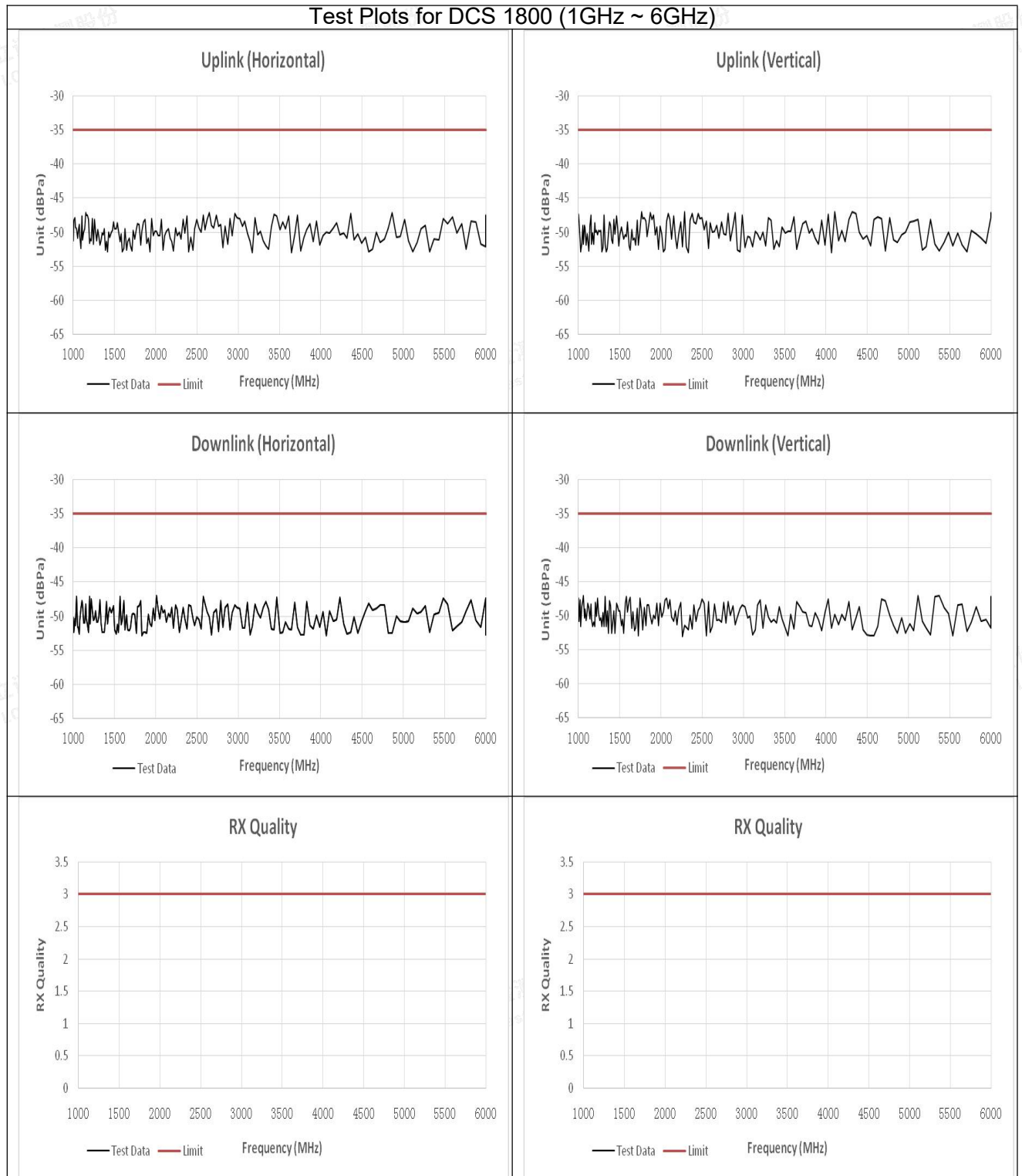


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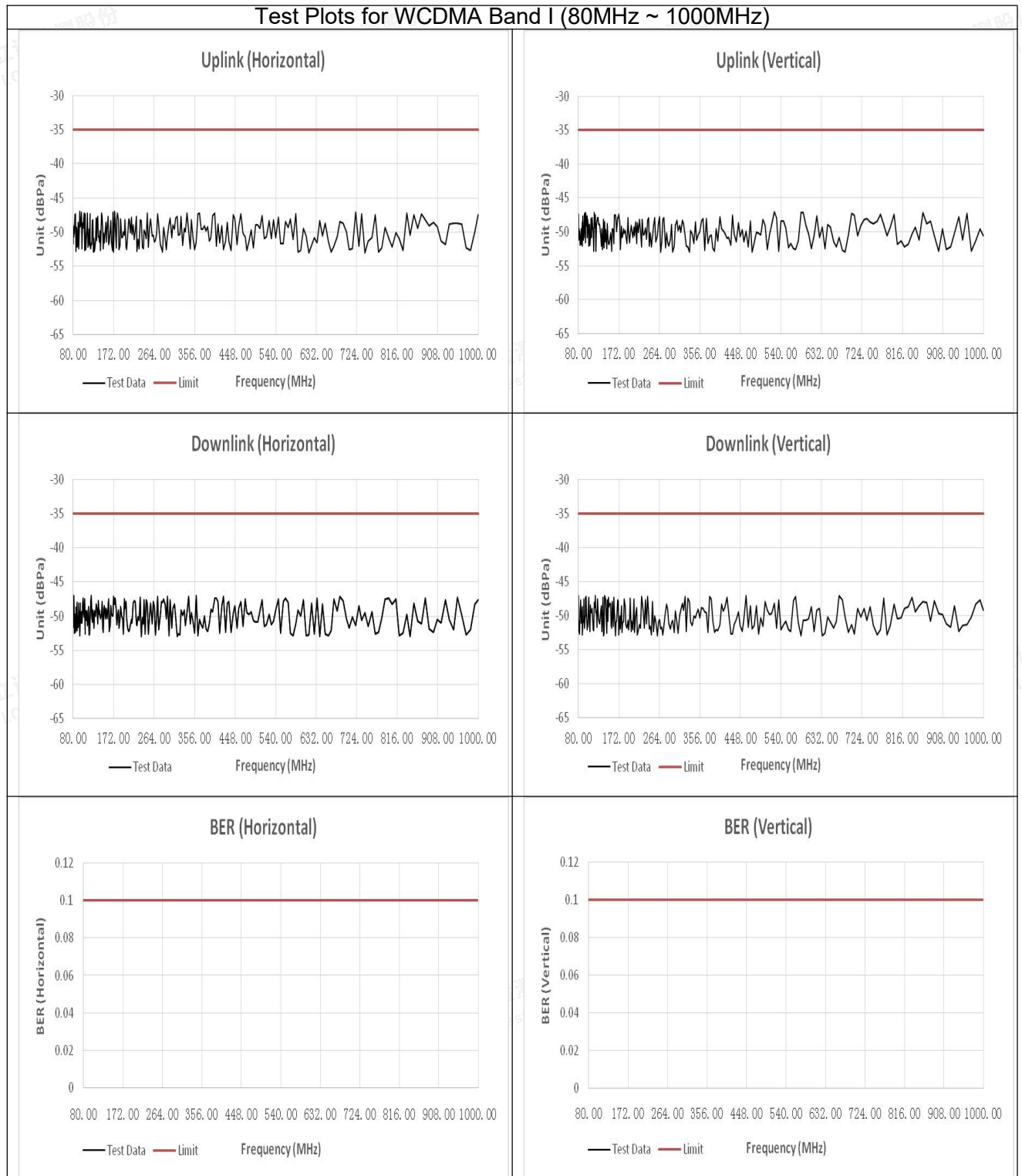


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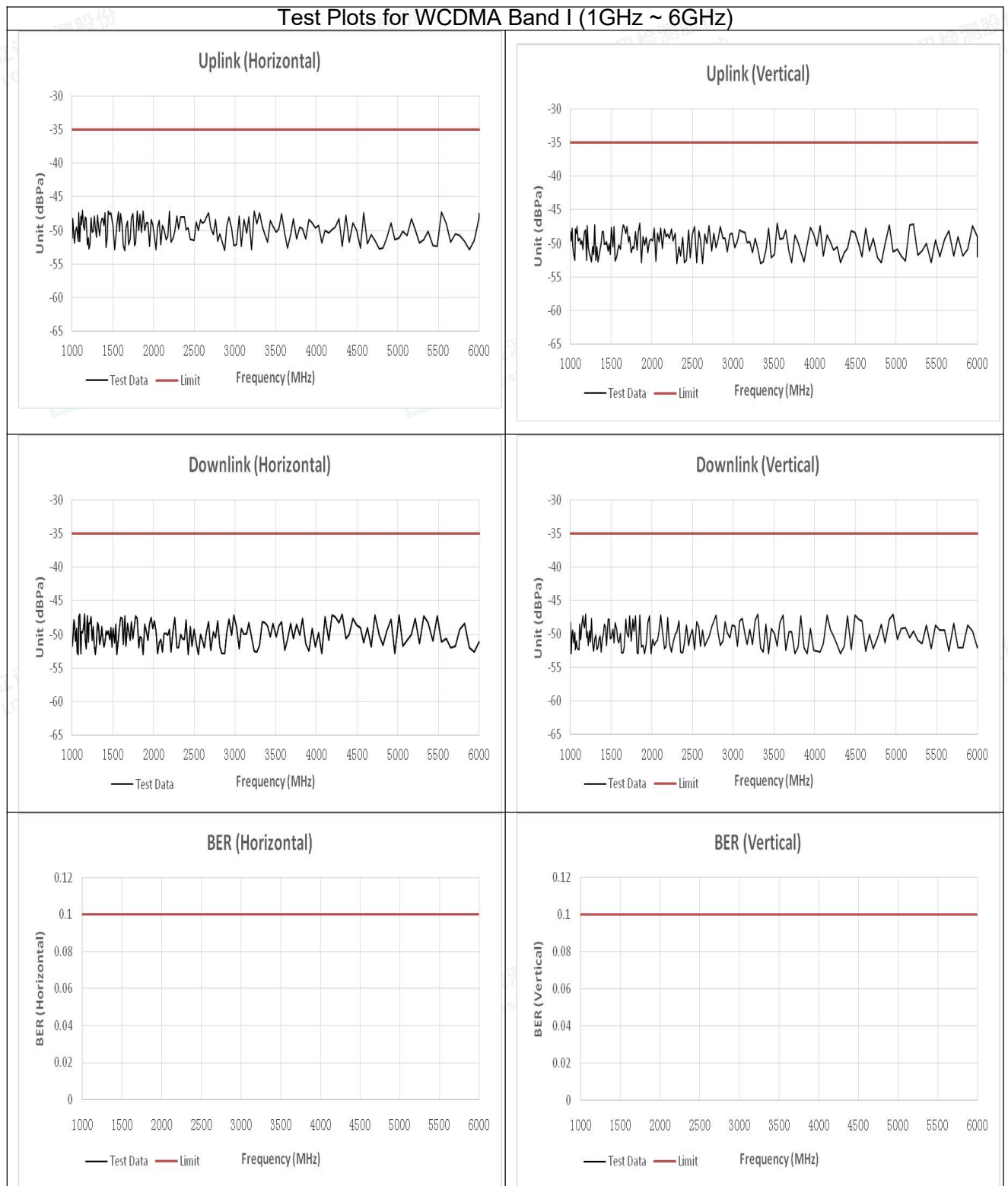


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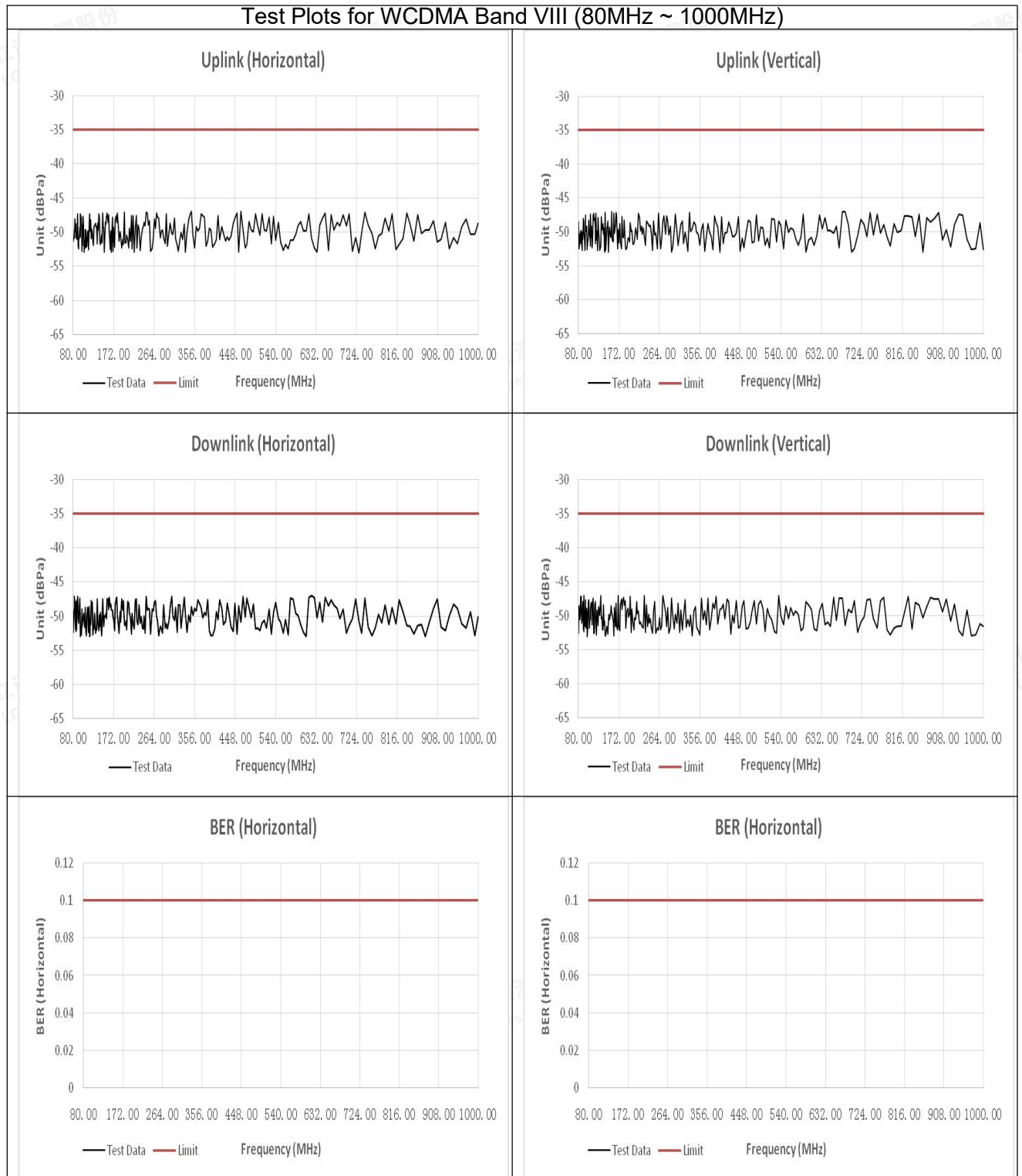
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Test Plots for WCDMA Band VIII (80MHz ~ 1000MHz)

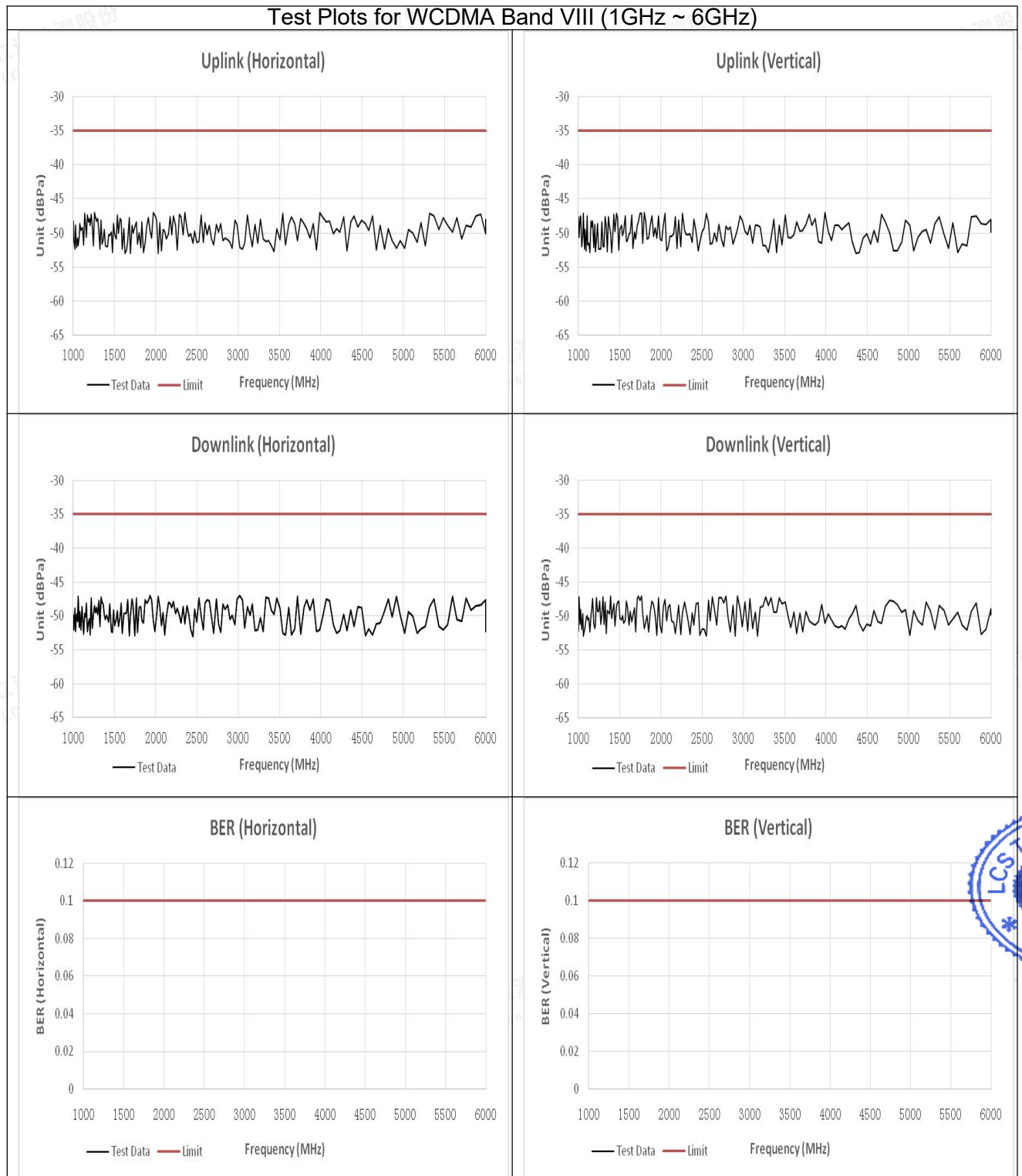


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

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 (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.



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

Standard	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
Applicant	Shenzhen Huafurui Technology Co., Ltd.		
EUT	Tablet	Temperature	22.6℃
M/N	TAB 40	Humidity	53.1%
Criterion	B	Pressure	1021mbar
Test Mode	TM1-TM30	Test Engineer	Taylor Hu
TEST RESULT OF TM1-TM21			
Test Voltage	Coupling	Observation	Result (Pass/Fail)
±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 TM22-TM24			
Test Voltage	Coupling	Observation	Result (Pass/Fail)
±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 TM25-TM30			
Test Voltage	Coupling		Result (Pass/Fail)
±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	Tablet	Temperature	22.2℃
M/N	TAB 40	Humidity	52.1%
Test Mode	TM1-TM30	Criterion	B
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM21

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 TM22-TM24

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

TEST RESULT OF TM25-TM30

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



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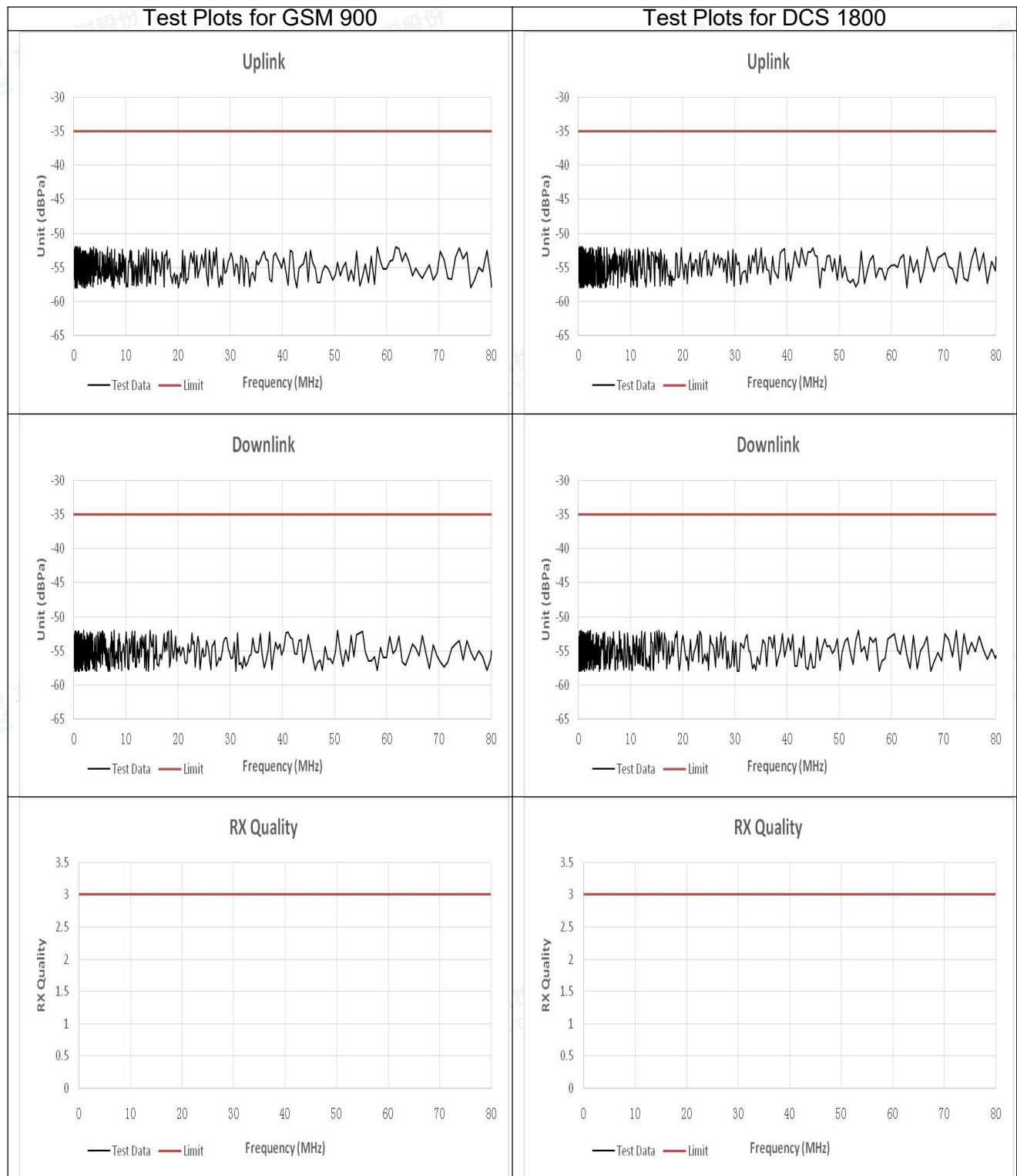
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**A.9 RF Common Mode**

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	Tablet	Temperature	24.2°C
M/N	TAB 40	Humidity	53.4%
Test Mode	TM1-TM30	Criterion	A
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM21				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass
TEST RESULT OF TM22-TM24				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CR	Pass
TEST RESULT OF TM25-TM30				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Result (Pass/Fail)	
0.15 ~ 80	3V	AC Mains	Pass	
Remark:				
1. Modulation Signal:1kHz 80% AM				



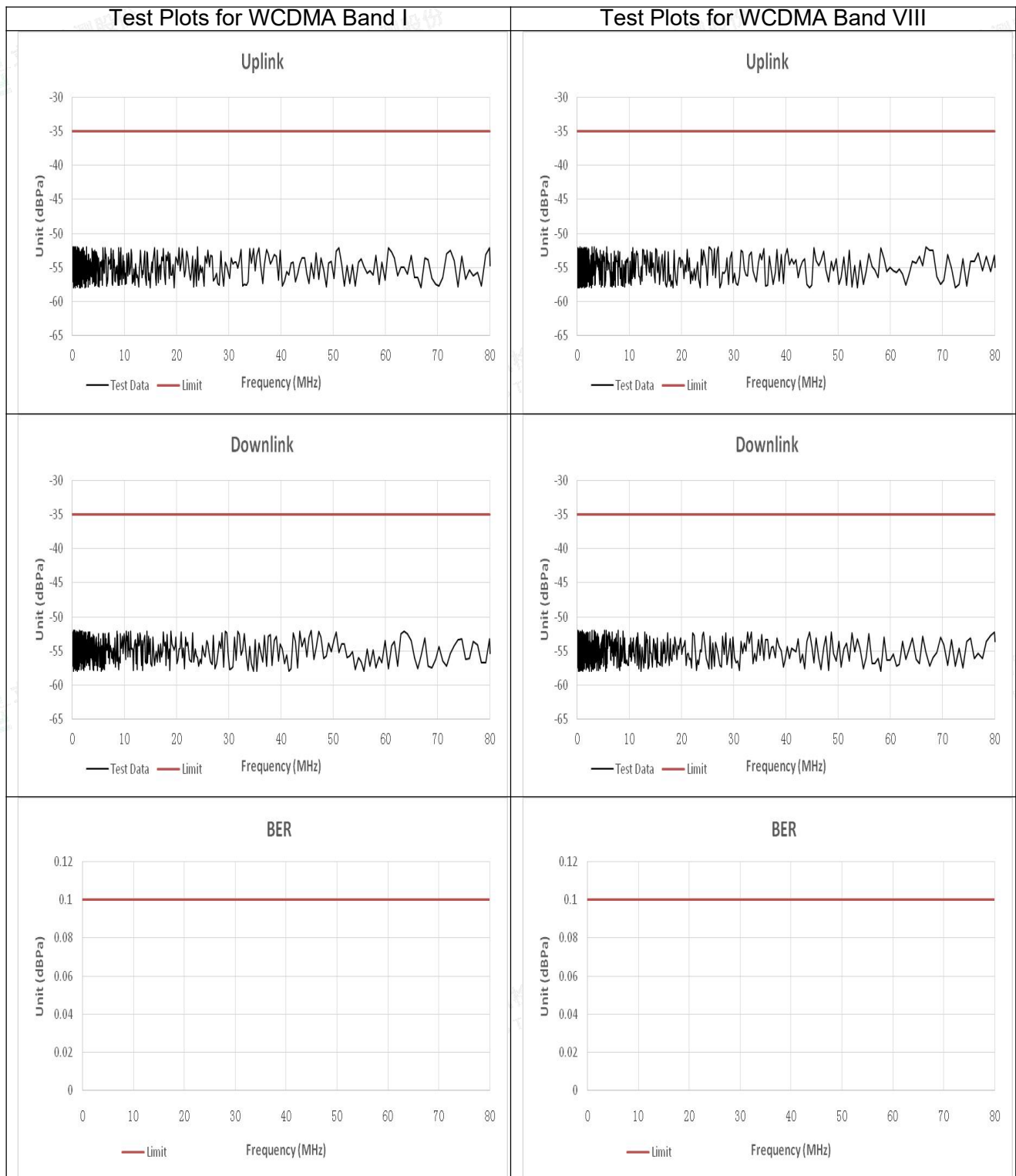


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

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 (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.



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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	Tablet	Temperature	24.3℃
M/N	TAB 40	Humidity	52.2%
Test Mode	TM1-TM30	Criterion	B
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM21						
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 TM22-TM24						
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 TM25-TM30						
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	



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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	Tablet	Temperature	23.3℃
M/N	TAB 40	Humidity	54.5%
Test Mode	TM1-TM30	Criterion	B&C
Test Engineer	Taylor Hu		

TEST RESULT OF TM1-TM21				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	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 TM22-TM24				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	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 TM25-TM30				
Test Level % U _T	Voltage Dips & Short Interruptions % U _T	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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