



Appendix A for Emission and Immunity test results

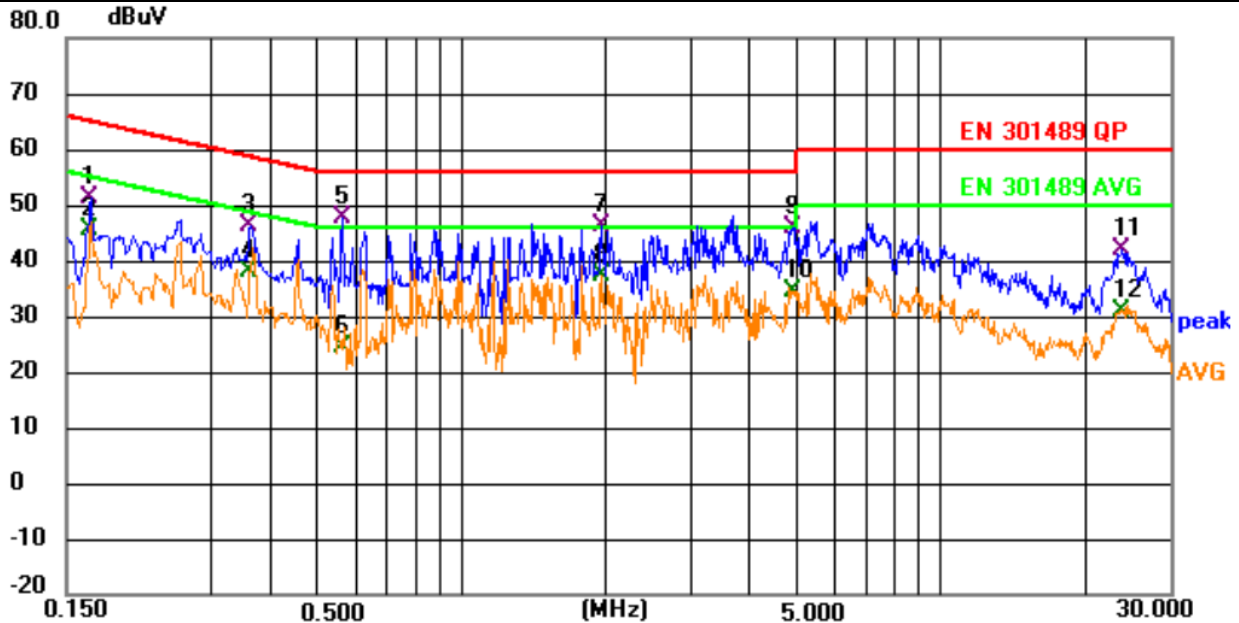
Product Name: Smartphone

Test Model: NOTE 60

A.1 Line Conducted Emission

Adapter1 Model: TPD-203A120167VF01

Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	22.3°C, 58.4% RH	Test Engineer	Paddi Chen
Pol.	Line	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.168	31.49	19.81	51.30	65.06	-13.76	QP	
2		0.168	25.60	19.81	45.41	55.06	-9.65	AVG	
3		0.361	26.18	19.93	46.11	58.71	-12.60	QP	
4		0.361	18.11	19.93	38.04	48.71	-10.67	AVG	
5	*	0.564	28.05	19.64	47.69	56.00	-8.31	QP	
6		0.564	4.78	19.64	24.42	46.00	-21.58	AVG	
7		1.954	27.47	18.95	46.42	56.00	-9.58	QP	
8		1.954	18.53	18.95	37.48	46.00	-8.52	AVG	
9		4.907	27.09	18.96	46.05	56.00	-9.95	QP	
10		4.907	15.51	18.96	34.47	46.00	-11.53	AVG	
11		23.869	23.19	18.79	41.98	60.00	-18.02	QP	
12		23.869	11.95	18.79	30.74	50.00	-19.26	AVG	



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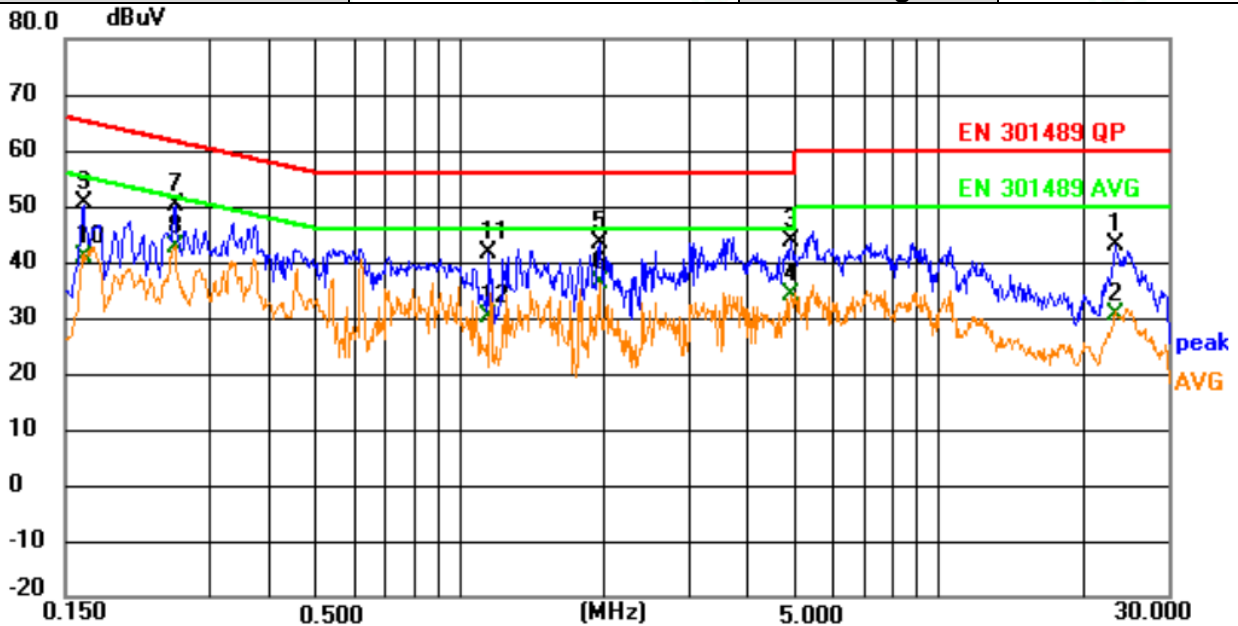
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Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	22.3℃, 58.4% RH	Test Engineer	Paddi Chen
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		23.442	23.73	19.25	42.98	60.00	-17.02	peak	
2		23.442	11.39	19.25	30.64	50.00	-19.36	AVG	
3		4.915	24.79	18.84	43.63	56.00	-12.37	peak	
4		4.915	15.30	18.84	34.14	46.00	-11.86	AVG	
5		1.950	24.13	19.13	43.26	56.00	-12.74	peak	
6		1.950	17.07	19.13	36.20	46.00	-9.80	AVG	
7		0.254	30.27	19.77	50.04	61.63	-11.59	peak	
8	*	0.254	23.04	19.77	42.81	51.63	-8.82	AVG	
9		0.164	30.72	19.64	50.36	65.26	-14.90	peak	
10		0.164	21.22	19.64	40.86	55.26	-14.40	AVG	
11		1.149	22.71	18.84	41.55	56.00	-14.45	peak	
12		1.149	11.37	18.84	30.21	46.00	-15.79	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=Lish Factor+Cable Factor



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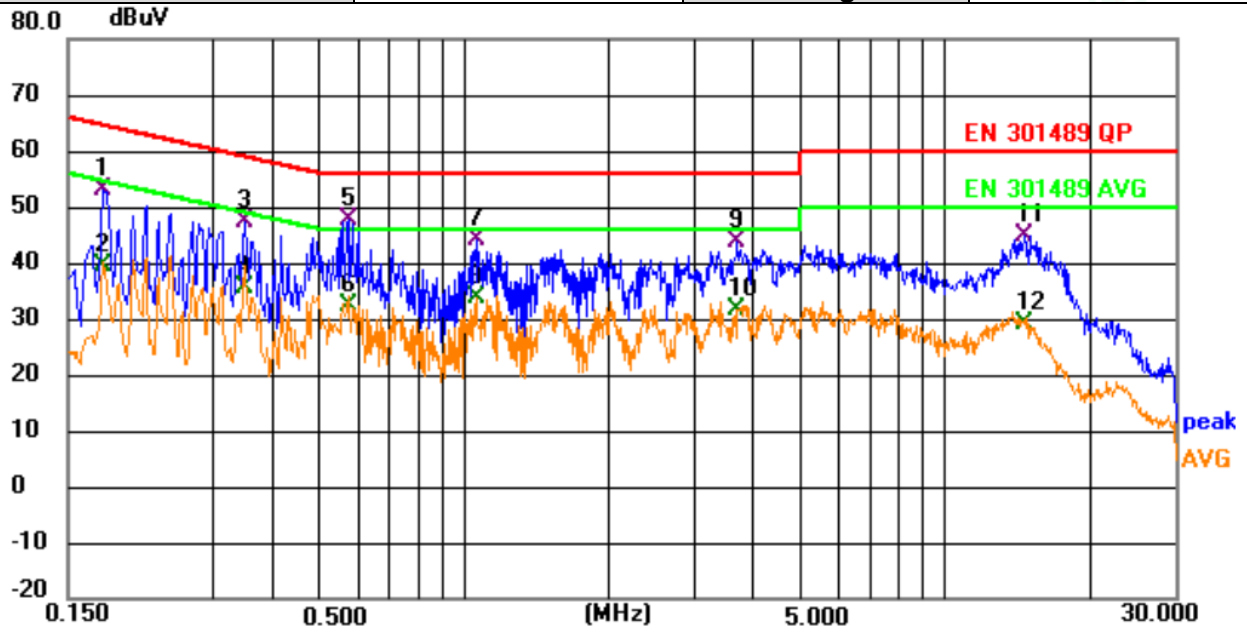
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Adapter2 Model: HJ-PD18W-EU

Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	22.3℃, 58.4% RH	Test Engineer	Paddi Chen
Pol.	Line	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.177	33.19	19.76	52.95	64.63	-11.68	QP	
2		0.177	19.74	19.76	39.50	54.63	-15.13	AVG	
3		0.348	27.49	19.91	47.40	59.01	-11.61	QP	
4		0.348	15.54	19.91	35.45	49.01	-13.56	AVG	
5	*	0.573	28.06	19.61	47.67	56.00	-8.33	QP	
6		0.573	12.85	19.61	32.46	46.00	-13.54	AVG	
7		1.063	24.98	19.14	44.12	56.00	-11.88	QP	
8		1.063	14.54	19.14	33.68	46.00	-12.32	AVG	
9		3.696	24.63	19.18	43.81	56.00	-12.19	QP	
10		3.696	12.39	19.18	31.57	46.00	-14.43	AVG	
11		14.559	25.02	19.91	44.93	60.00	-15.07	QP	
12		14.559	9.37	19.91	29.28	50.00	-20.72	AVG	



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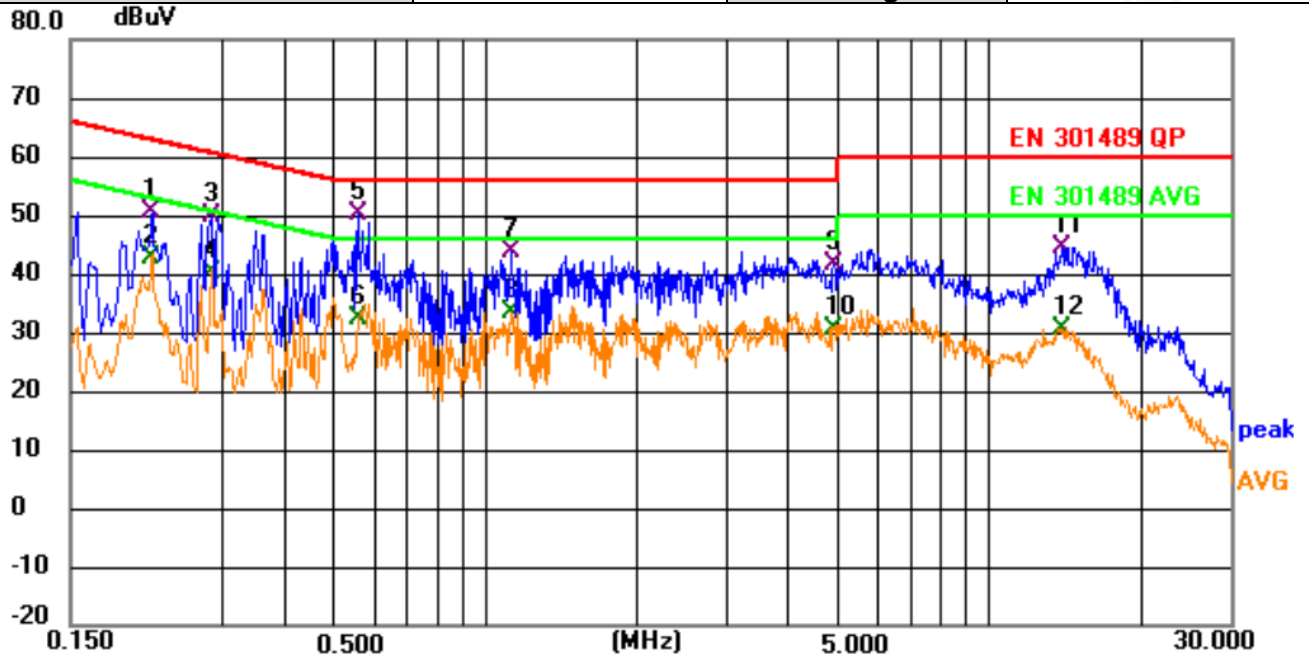
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Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	22.3°C, 58.4% RH	Test Engineer	Paddi Chen
Pol.	Neutral	Test Voltage	AC 230V/50Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.217	30.60	19.77	50.37	62.93	-12.56	QP	
2		0.217	23.00	19.77	42.77	52.93	-10.16	AVG	
3		0.285	30.12	19.78	49.90	60.67	-10.77	QP	
4		0.285	20.29	19.78	40.07	50.67	-10.60	AVG	
5	*	0.559	30.86	19.42	50.28	56.00	-5.72	QP	
6		0.559	13.01	19.42	32.43	46.00	-13.57	AVG	
7		1.127	25.01	18.83	43.84	56.00	-12.16	QP	
8		1.127	14.66	18.83	33.49	46.00	-12.51	AVG	
9		4.920	22.70	18.84	41.54	56.00	-14.46	QP	
10		4.920	11.62	18.84	30.46	46.00	-15.54	AVG	
11		13.880	24.90	19.70	44.60	60.00	-15.40	QP	
12		13.880	11.01	19.70	30.71	50.00	-19.29	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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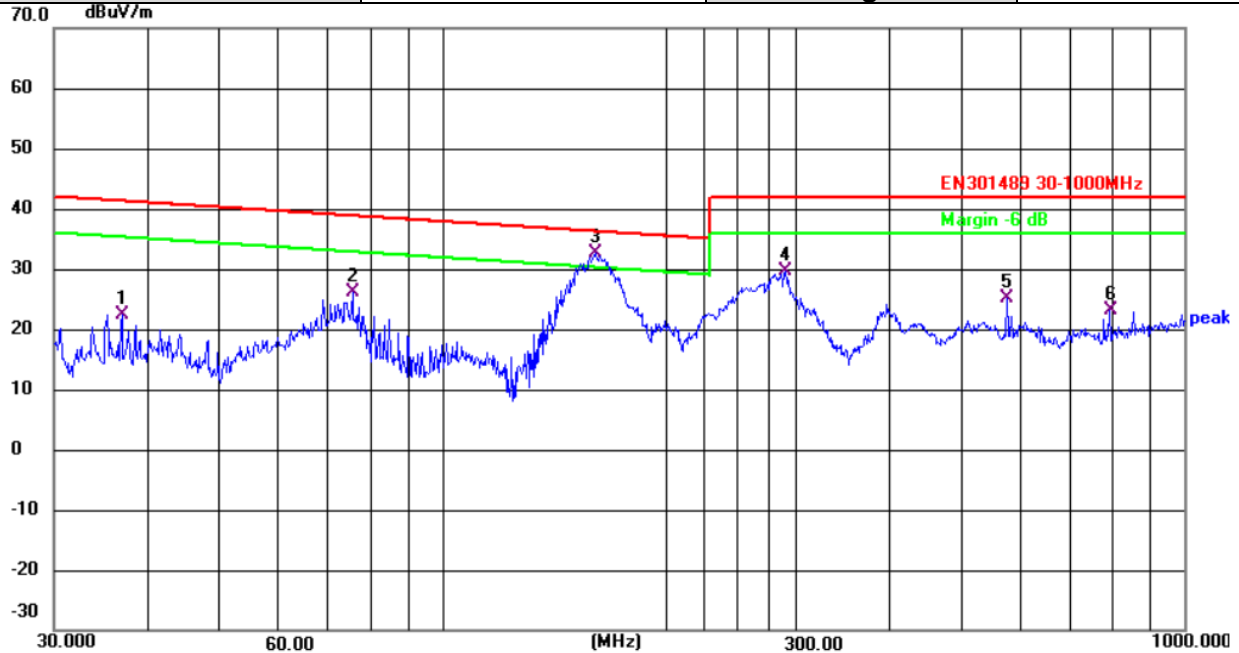
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A.3 Radiated Disturbance

Adapter1 Model: TPD-203A120167VF01

Test Model	NOTE 60	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	37.0248	40.18	-17.69	22.49	41.28	-18.79	QP
2	75.7114	45.76	-19.71	26.05	38.82	-12.77	QP
3	160.9089	52.19	-19.66	32.53	36.23	-3.70	QP
4	290.0172	45.15	-15.52	29.63	42.00	-12.37	QP
5	576.6443	36.01	-10.83	25.18	42.00	-16.82	QP
6	793.3960	33.15	-9.99	23.16	42.00	-18.84	QP



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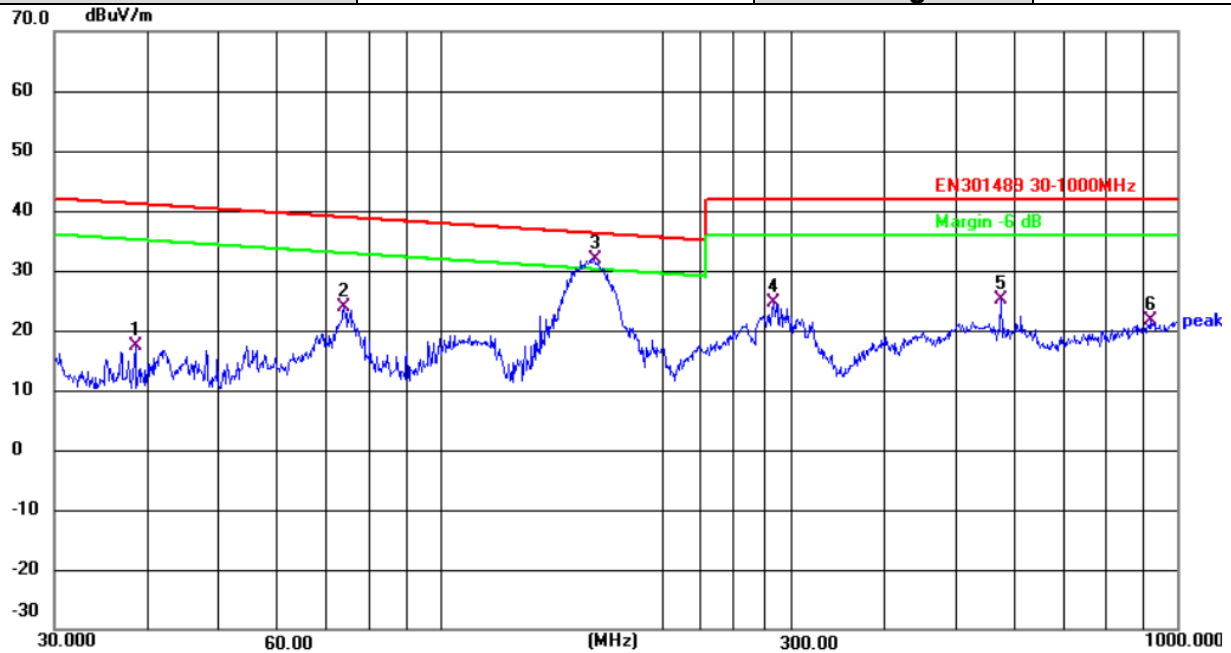
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Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.6160	34.50	-17.11	17.39	41.13	-23.74	QP
2	74.1351	43.33	-19.44	23.89	38.89	-15.00	QP
3	162.0414	52.59	-20.71	31.88	36.20	-4.32	QP
4	283.9791	40.62	-16.10	24.52	42.00	-17.48	QP
5	576.6443	35.81	-10.80	25.01	42.00	-16.99	QP
6	919.2866	29.16	-7.50	21.66	42.00	-20.34	QP

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



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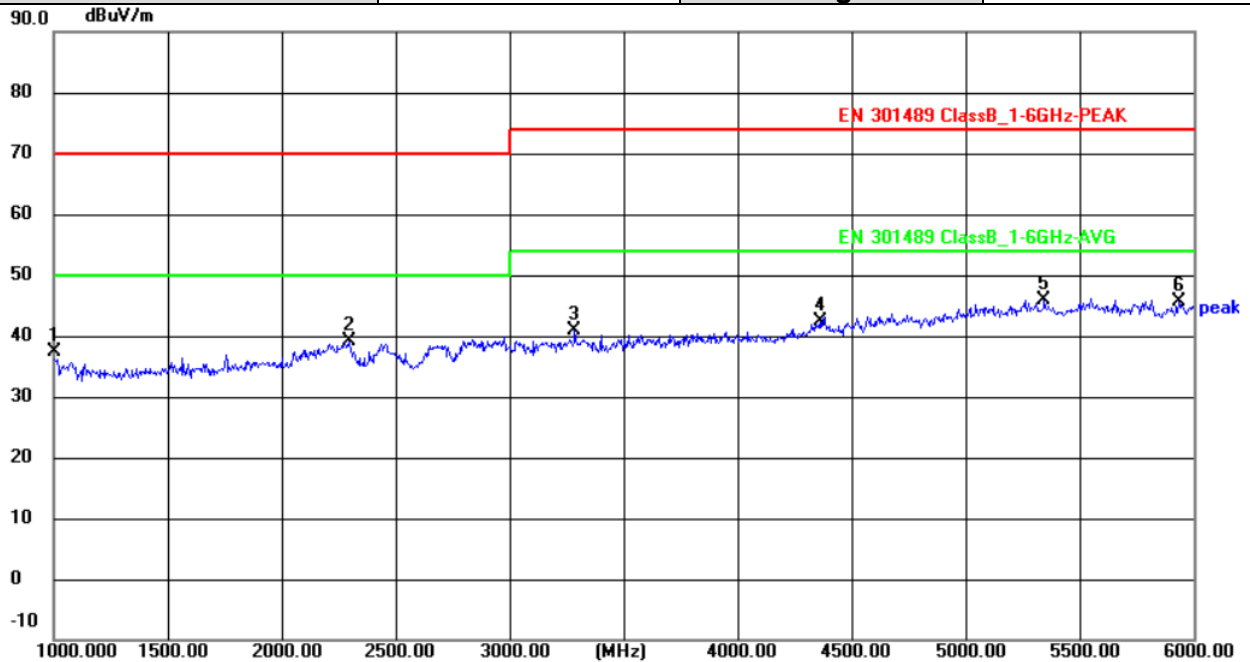
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Test Model	NOTE 60	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.5℃, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1000.0000	52.86	-15.46	37.40	70.00	-32.60	peak
2	2295.000	51.25	-12.06	39.19	70.00	-30.81	peak
3	3285.000	50.37	-9.49	40.88	74.00	-33.12	peak
4	4360.000	49.54	-7.13	42.41	74.00	-31.59	peak
5	5345.000	49.45	-3.49	45.96	74.00	-28.04	peak
6	5935.000	49.38	-3.63	45.75	74.00	-28.25	peak



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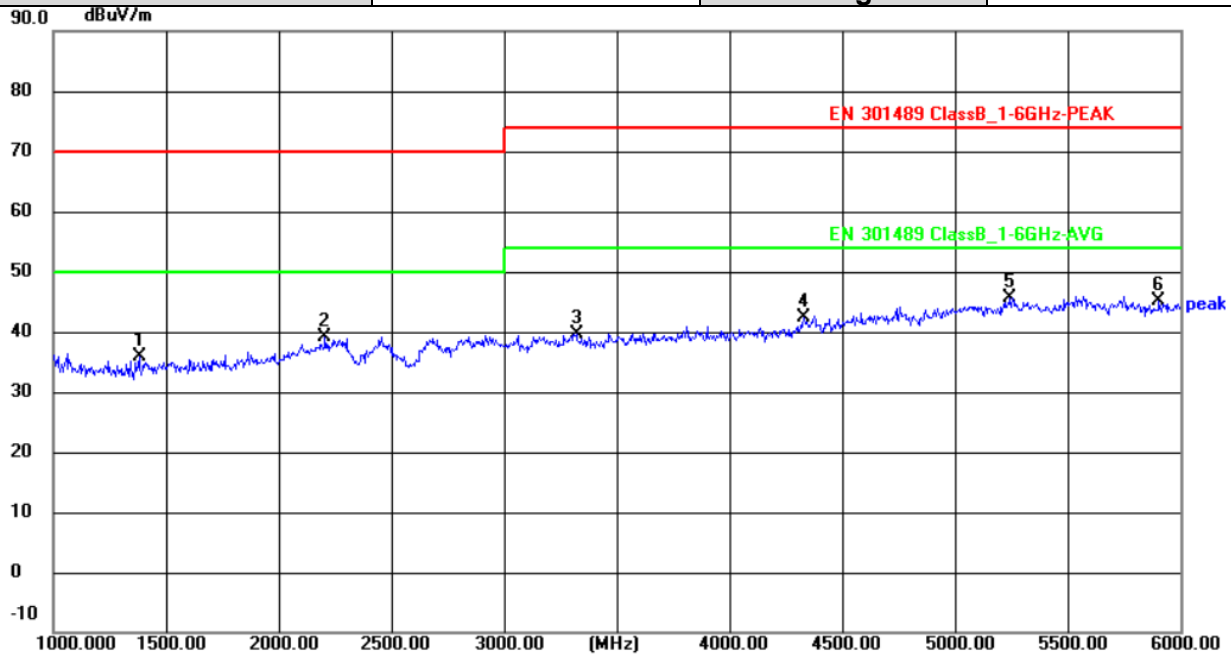
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Test Model	NOTE 60	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.5°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1380.000	50.05	-14.14	35.91	70.00	-34.09	peak
2	2205.000	50.08	-11.05	39.03	70.00	-30.97	peak
3	3320.000	48.93	-9.20	39.73	74.00	-34.27	peak
4	4330.000	48.37	-6.03	42.34	74.00	-31.66	peak
5	5245.000	47.73	-2.13	45.60	74.00	-28.40	peak
6	5905.000	47.79	-2.72	45.07	74.00	-28.93	peak

Note:

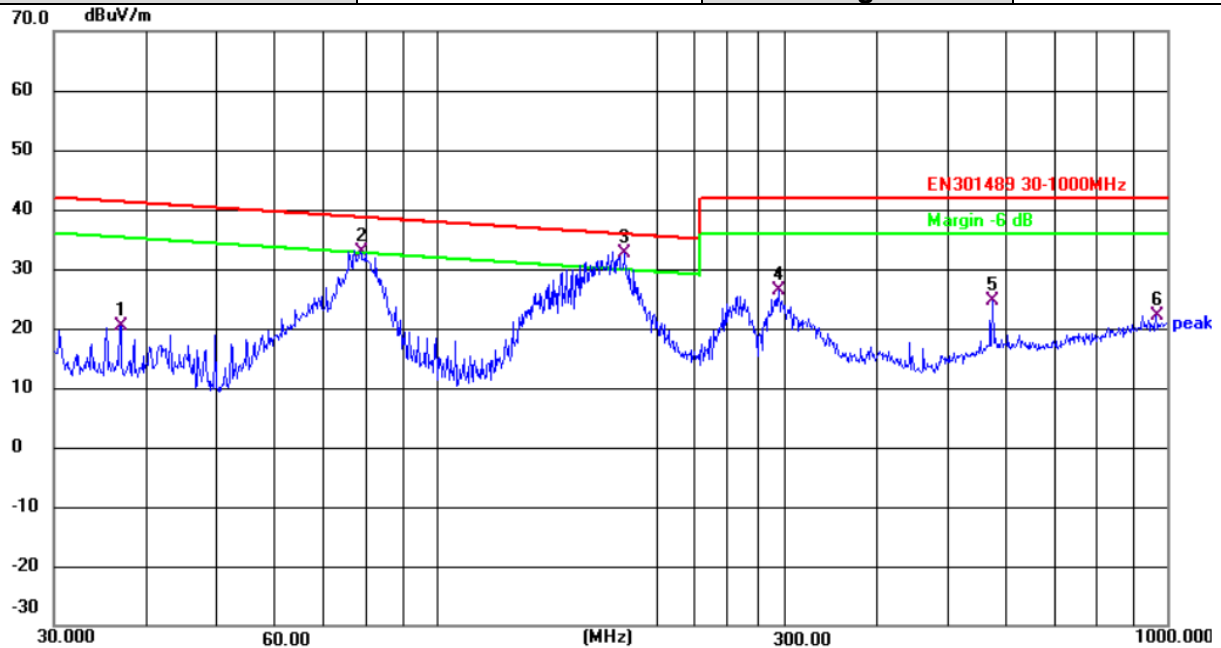
- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the 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





Adapter2 Model: HJ-PD18W-EU

Test Model	NOTE 60	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	37.0248	38.12	-17.69	20.43	41.28	-20.85	QP
2	78.6888	52.79	-19.83	32.96	38.69	-5.73	QP
3	181.2834	51.36	-18.64	32.72	35.82	-3.10	QP
4	294.1137	41.88	-15.56	26.32	42.00	-15.68	QP
5	576.6443	35.39	-10.83	24.56	42.00	-17.44	QP
6	965.5421	29.99	-7.92	22.07	42.00	-19.93	QP



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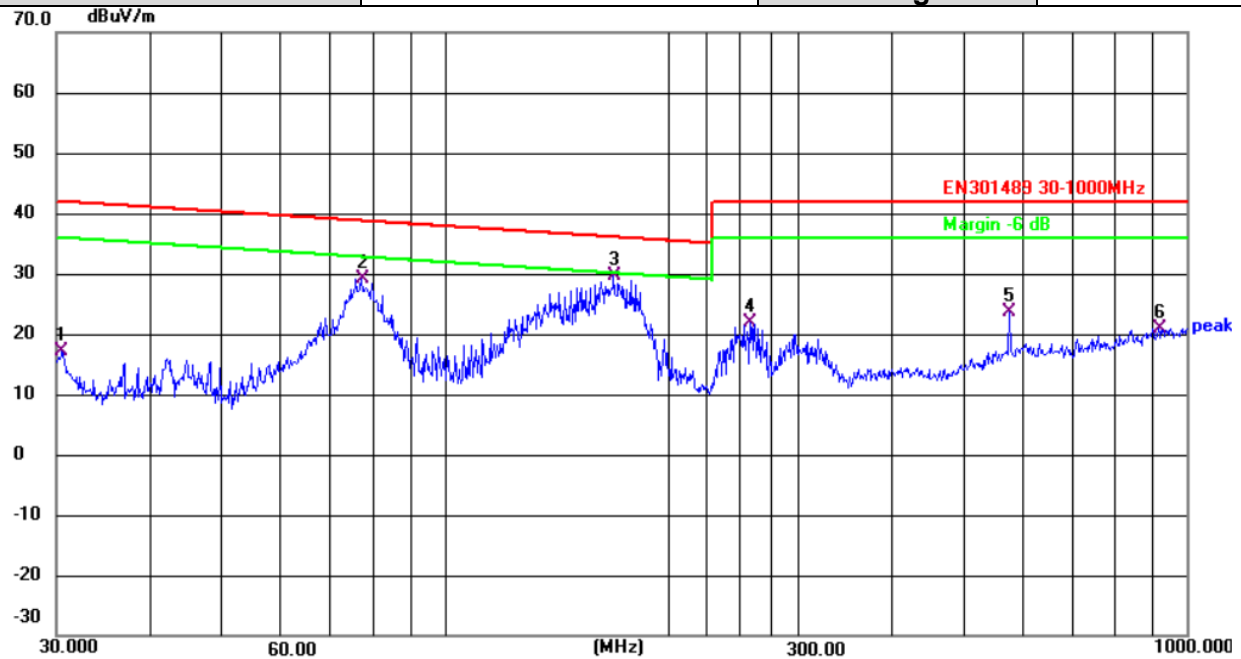
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Test Model	NOTE 60	Test Mode	TM1
Environmental Conditions	23.8°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Quasi-peak
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	35.68	-18.48	17.20	41.94	-24.74	QP
2	77.3212	48.96	-19.74	29.22	38.75	-9.53	QP
3	169.0054	49.73	-20.11	29.62	36.06	-6.44	QP
4	258.3264	38.74	-16.79	21.95	42.00	-20.05	QP
5	576.6443	34.48	-10.80	23.68	42.00	-18.32	QP
6	916.0687	28.47	-7.53	20.94	42.00	-21.06	QP

Note: Margin= Reading Level + Correct Factor – Limit

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



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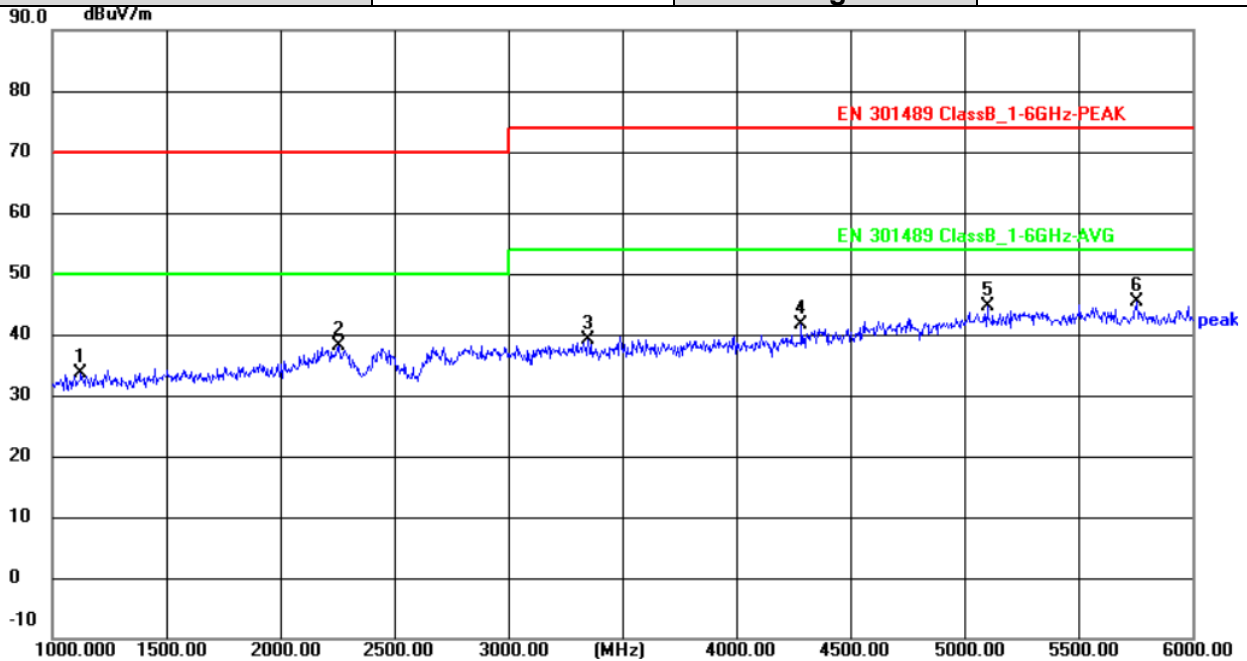
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Test Model	NOTE 60	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.5℃, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Vertical	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1125.000	48.83	-15.30	33.53	70.00	-36.47	peak
2	2255.000	50.31	-12.21	38.10	70.00	-31.90	peak
3	3350.000	48.63	-9.47	39.16	74.00	-34.84	peak
4	4285.000	49.08	-7.42	41.66	74.00	-32.34	peak
5	5100.000	48.69	-3.94	44.75	74.00	-29.25	peak
6	5755.000	48.87	-3.45	45.42	74.00	-28.58	peak



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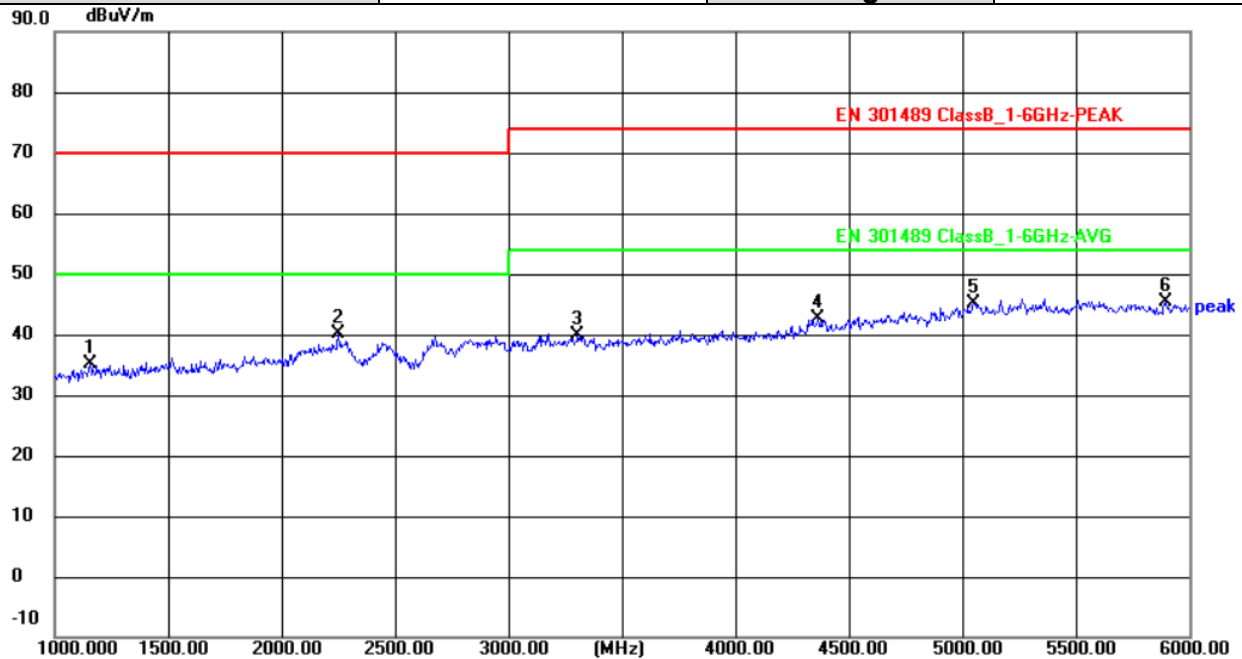
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Test Model	NOTE 60	Test Mode	TM1(Above 1GHz)
Environmental Conditions	23.5°C, 52.1% RH	Test Engineer	Paddi Chen
Pol.	Horizontal	Detector Function	Peak + AV
Distance	3m	Test Voltage	AC 230V/50Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1155.000	49.43	-14.33	35.10	70.00	-34.90	peak
2	2250.000	50.93	-10.83	40.10	70.00	-29.90	peak
3	3305.000	48.98	-9.09	39.89	74.00	-34.11	peak
4	4365.000	48.44	-5.89	42.55	74.00	-31.45	peak
5	5050.000	47.95	-2.75	45.20	74.00	-28.80	peak
6	5895.000	48.07	-2.77	45.30	74.00	-28.70	peak

Note:

1. 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.
2. Measurements above show only up to 6 maximum emissions noted.
3. 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.
4. 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

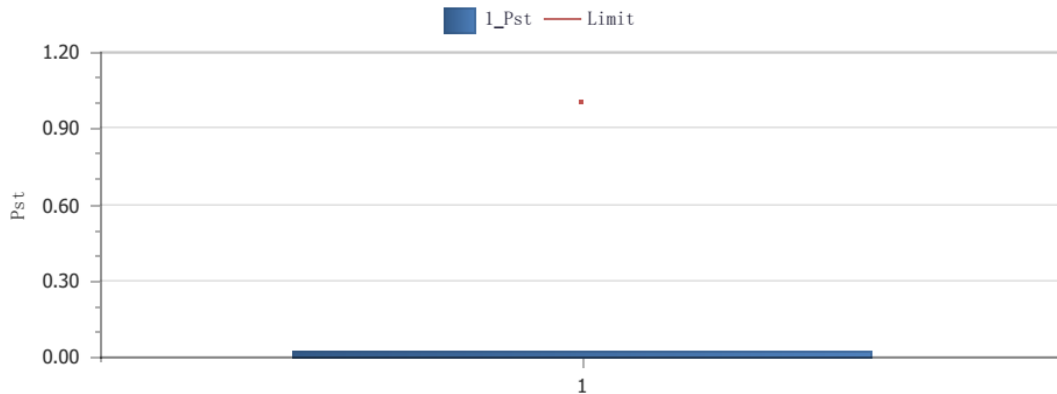
Because power of EUT less than 75W, according to standard EN 61000-3-2, Harmonic current unnecessary to test.

A.5 Voltage Fluctuation and Flicker

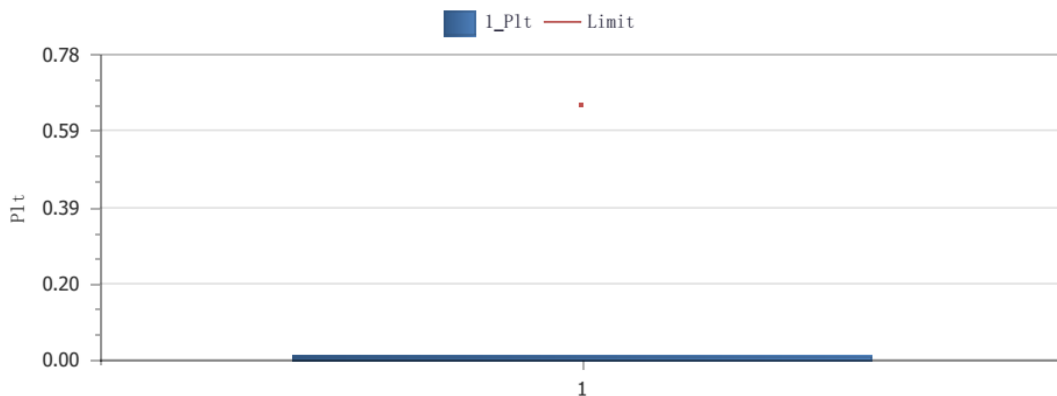
Adapter1 Model: TPD-203A120167VF01

Test Model	NOTE 60	Test Mode	TM1
Test Engineer	Paddi Chen	Test Voltage	AC 230V/50Hz
Environmental Conditions	24.3°C, 54.8% RH		

Pst and Limit



Plt and Limit



Relevant Parameter and Judgment During Test Period

Voltage at end of test	230.088V		
Voltage Fluctuation and Flicker	Test Value	Test Limit	Result
Tmax	0ms	500ms	Pass
dc	0.00%	3.30%	Pass
dmax	0.00%	4.00%	Pass
Pst	0.023	1.000	Pass
Plt	0.010	0.650	Pass

Elem1 Test Parameters

Count	dc (%)	dmax (%)	Tmax (ms)	Pst	Plt
1	0.00	0.00	0.00	0.023	0.010



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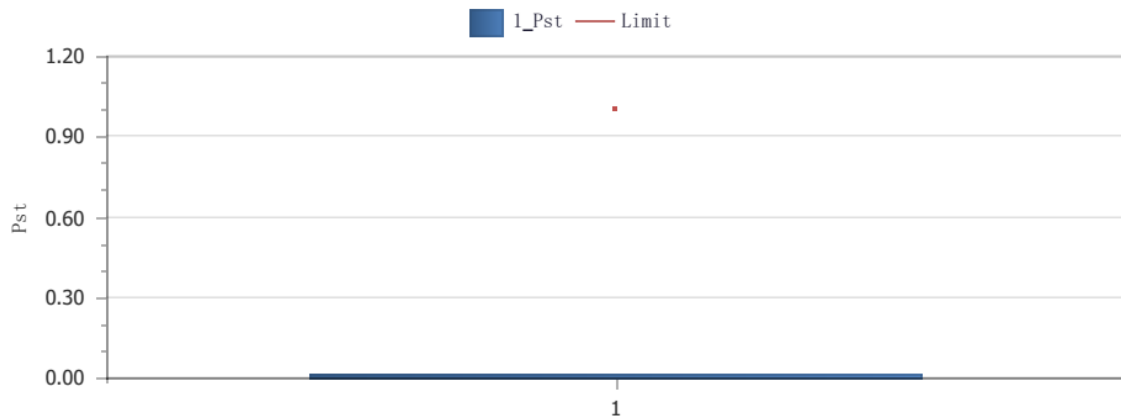
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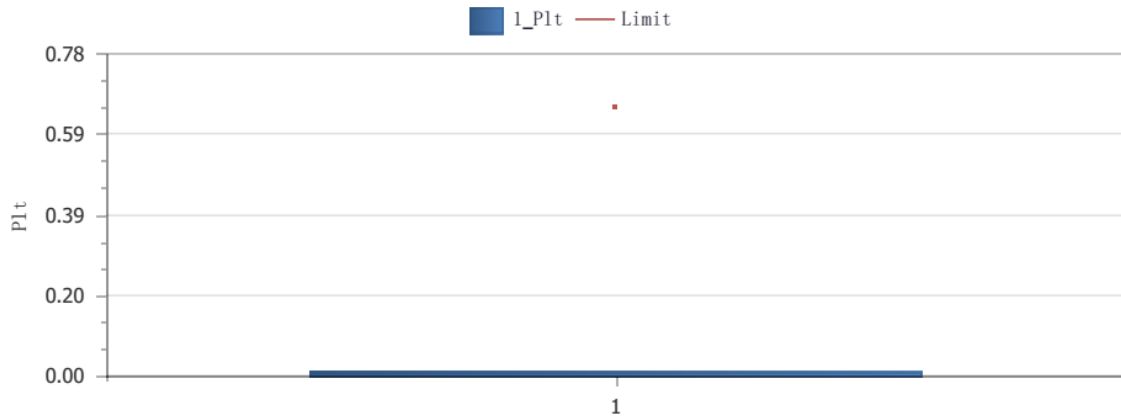
Adapter2 Model: HJ-PD18W-EU

Test Model	NOTE 60	Test Mode	TM1
Test Engineer	Paddi Chen	Test Voltage	AC 230V/50Hz
Environmental Conditions	24.3°C, 54.8% RH		

Pst and Limit



Plt and Limit



Relevant Parameter and Judgment During Test Period

Voltage at end of test	230.031V		
Voltage Fluctuation and Flicker	Test Value	Test Limit	Result
Tmax	0ms	500ms	Pass
dc	0.00%	3.30%	Pass
dmax	0.00%	4.00%	Pass
Pst	0.017	1.000	Pass
Plt	0.007	0.650	Pass

Elem1 Test Parameters

Count	dc (%)	dmax (%)	Tmax (ms)	Pst	Plt
1	0.00	0.00	0.00	0.017	0.007



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

Test Model	NOTE 60	Test Engineer	Paddi Chen
Environmental Conditions	22.3°C, 52.7% RH	Test Voltage	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	Vertical	80-6000	3	CT, CR	Front, Right, Left, Back,	Pass



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Traffic					Top, Bottom	
	Horizontal	80-6000	3	CT, CR	Front, Right, Left, Back, Top, Bottom	Pass
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



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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
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-TM104 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

TM105-TM107 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,	Pass



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					Left, Back, Top, Bottom	
	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

TM108 Test Result:

EUT Working Mode	Antenna Polarity	Frequency (MHz)	Fielded Strength (V/m)	Observation	Position	Conclusion
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



**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



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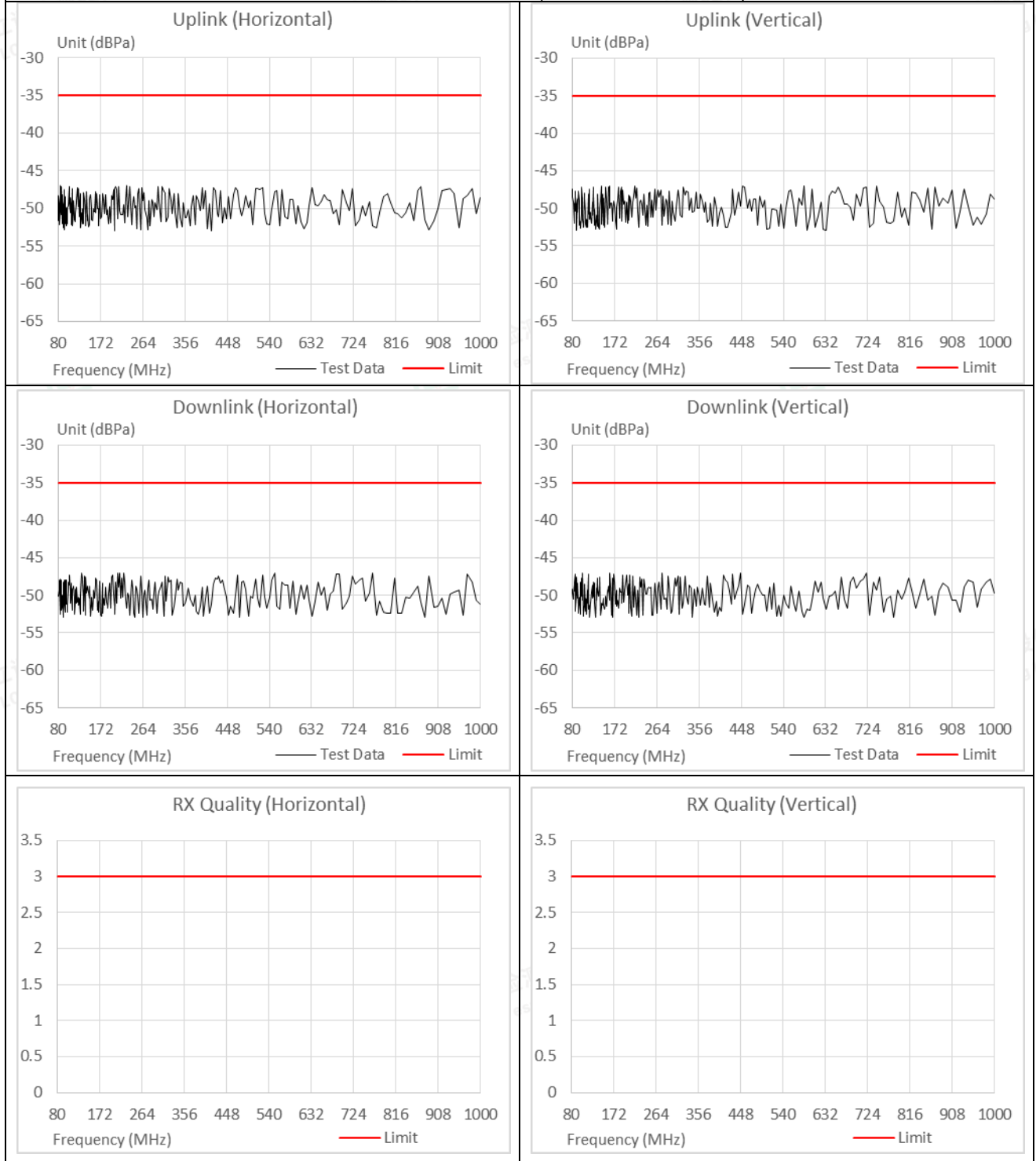
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Test Plots for GSM 900 (80MHz ~ 1000MHz)



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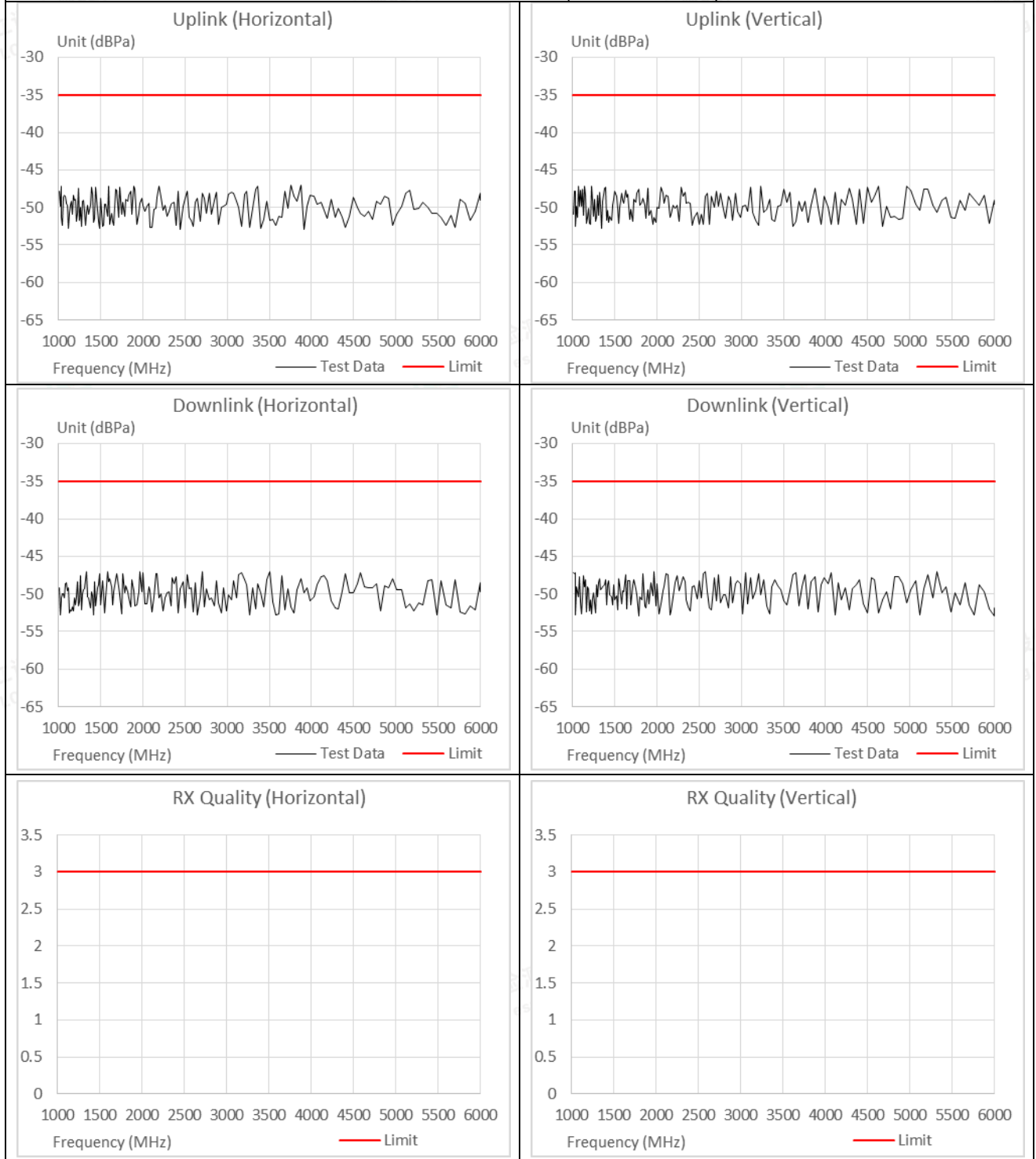
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Test Plots for GSM 900 (1GHz ~ 6GHz)

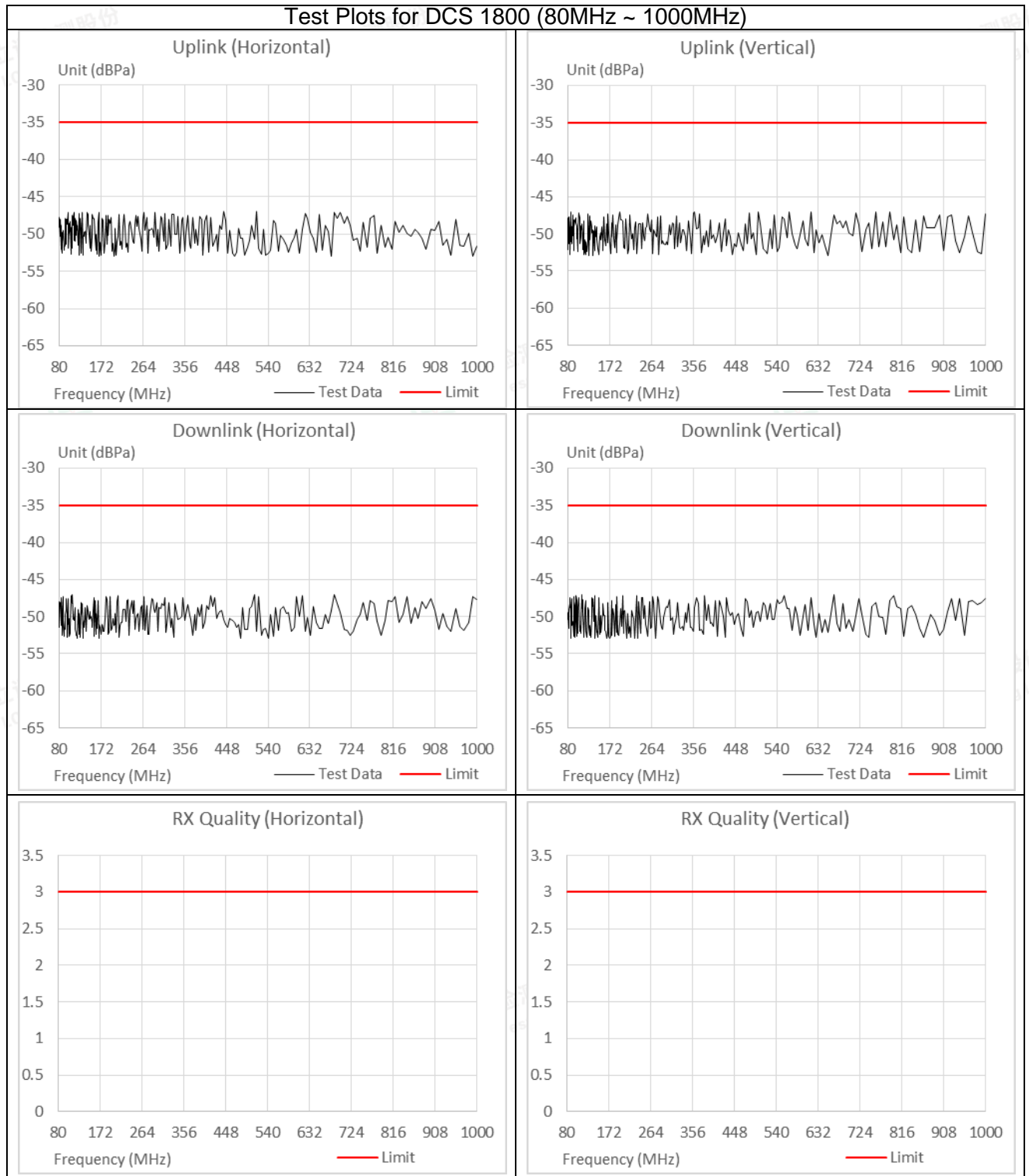


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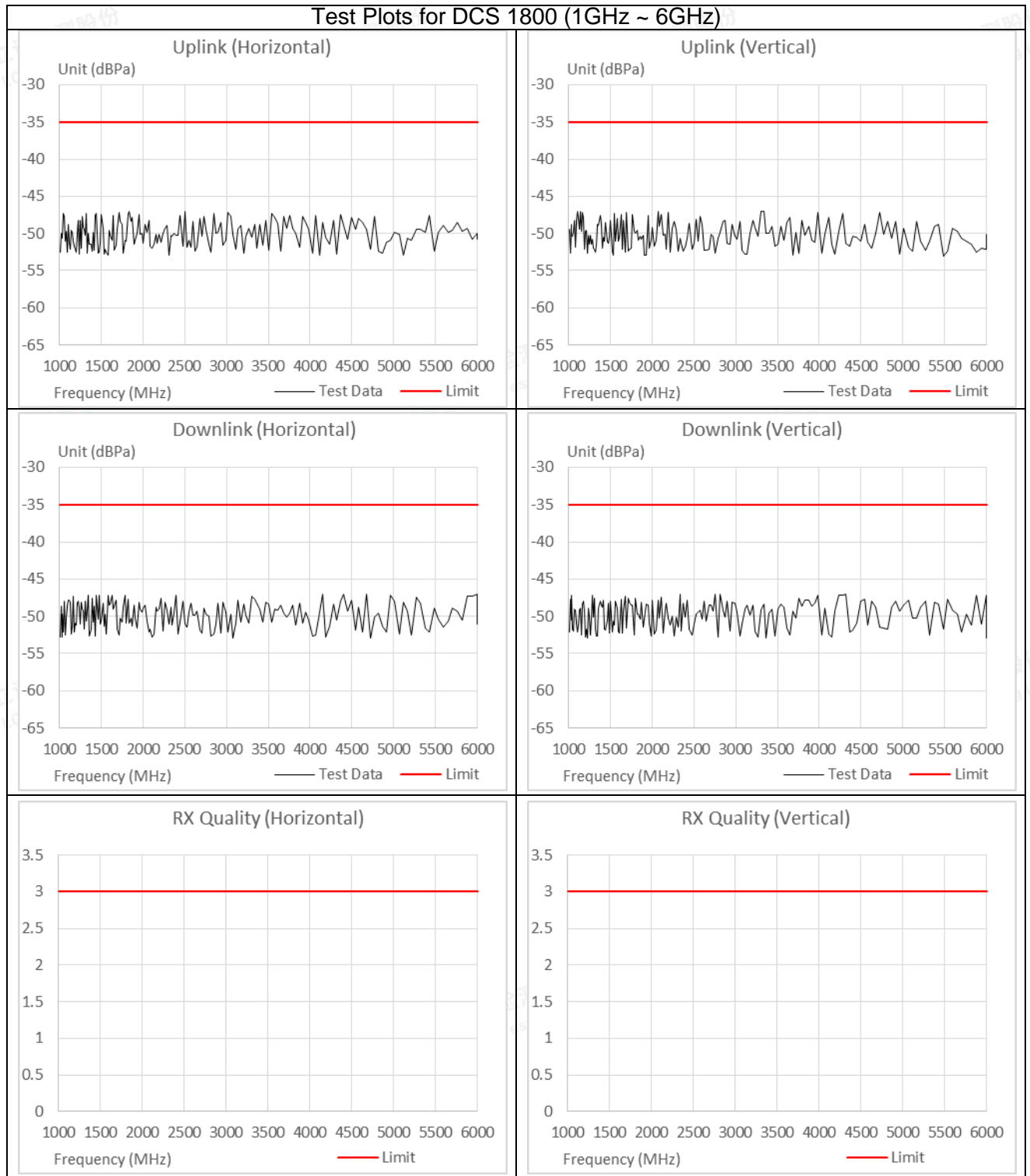


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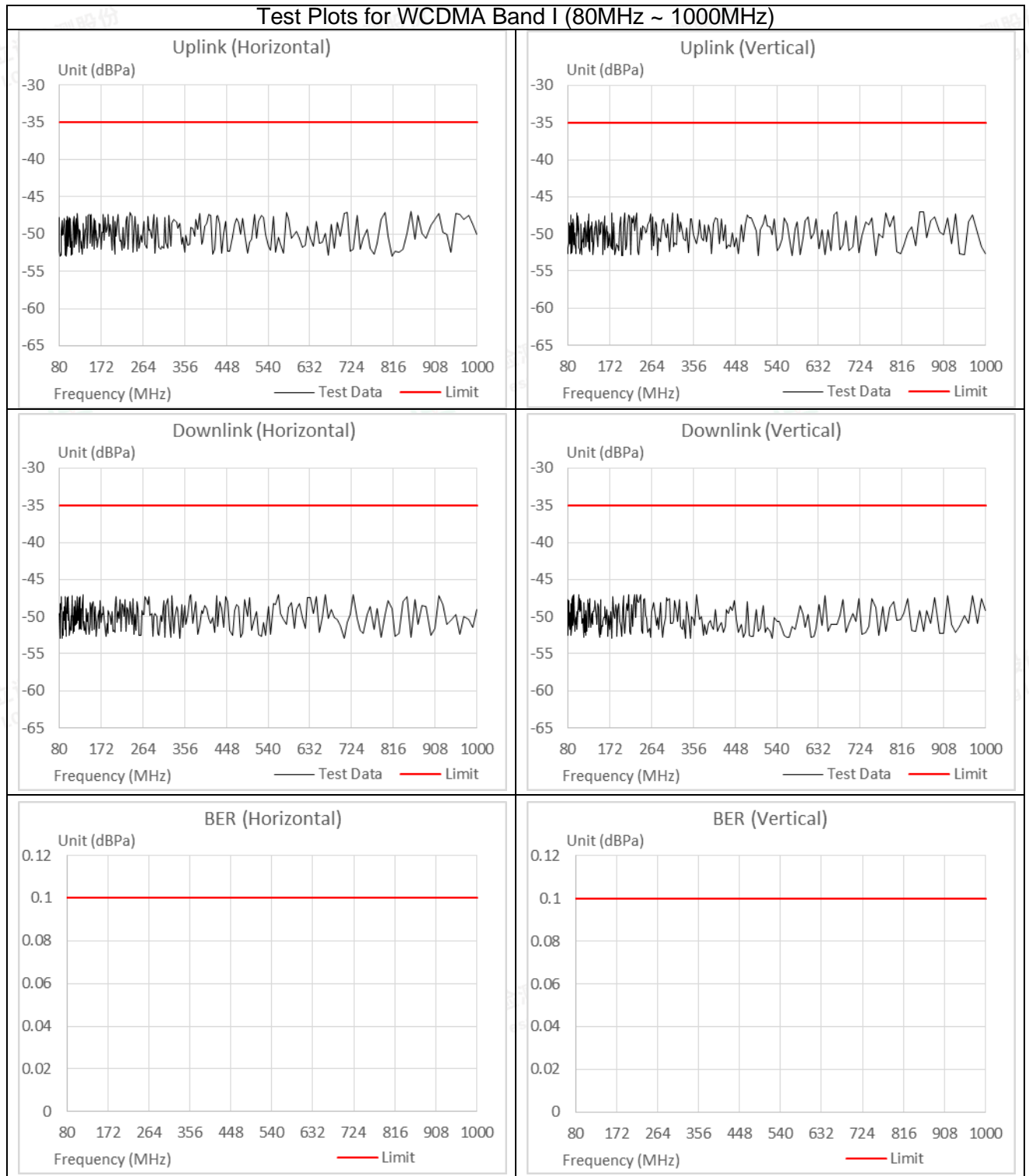


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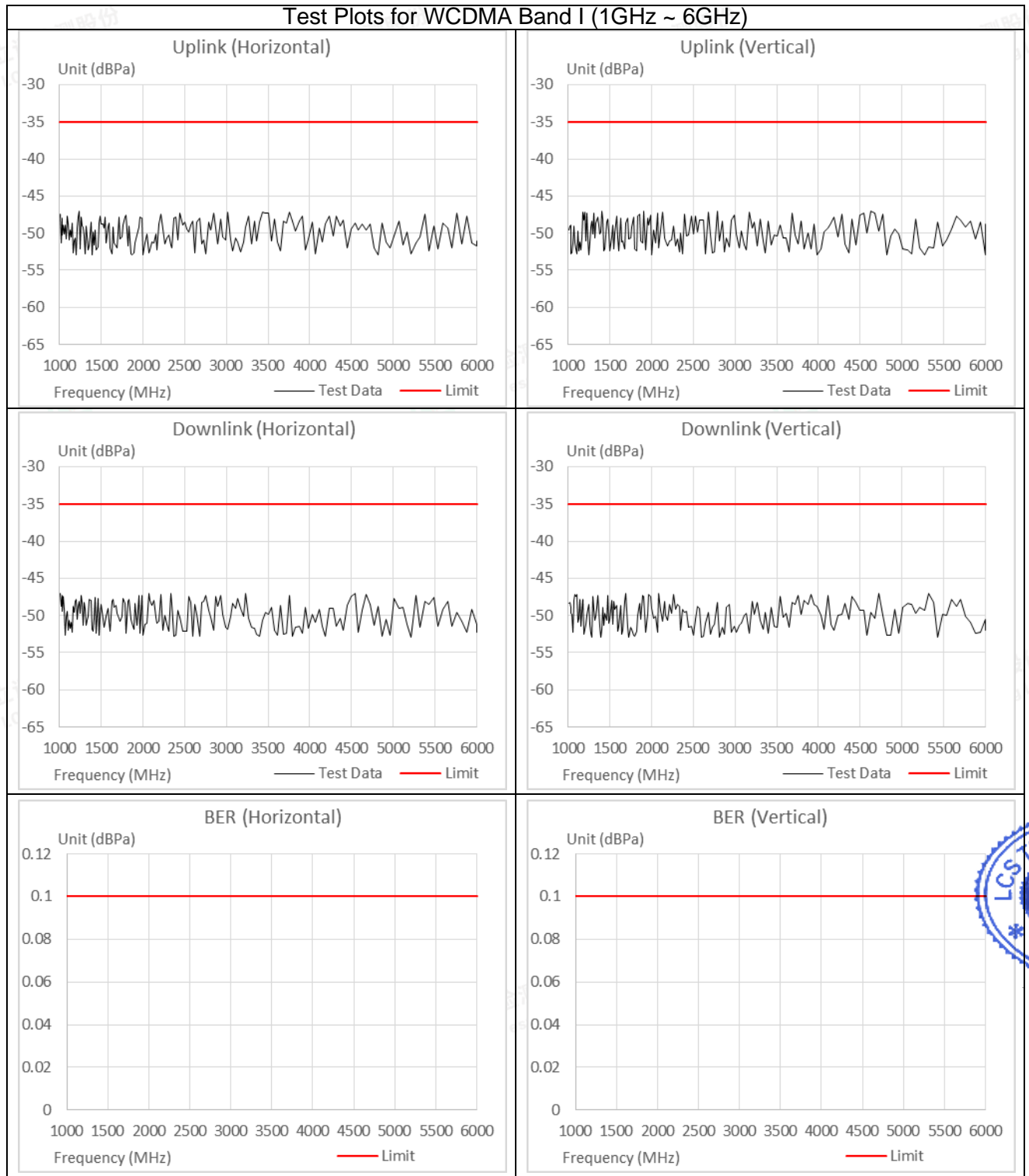


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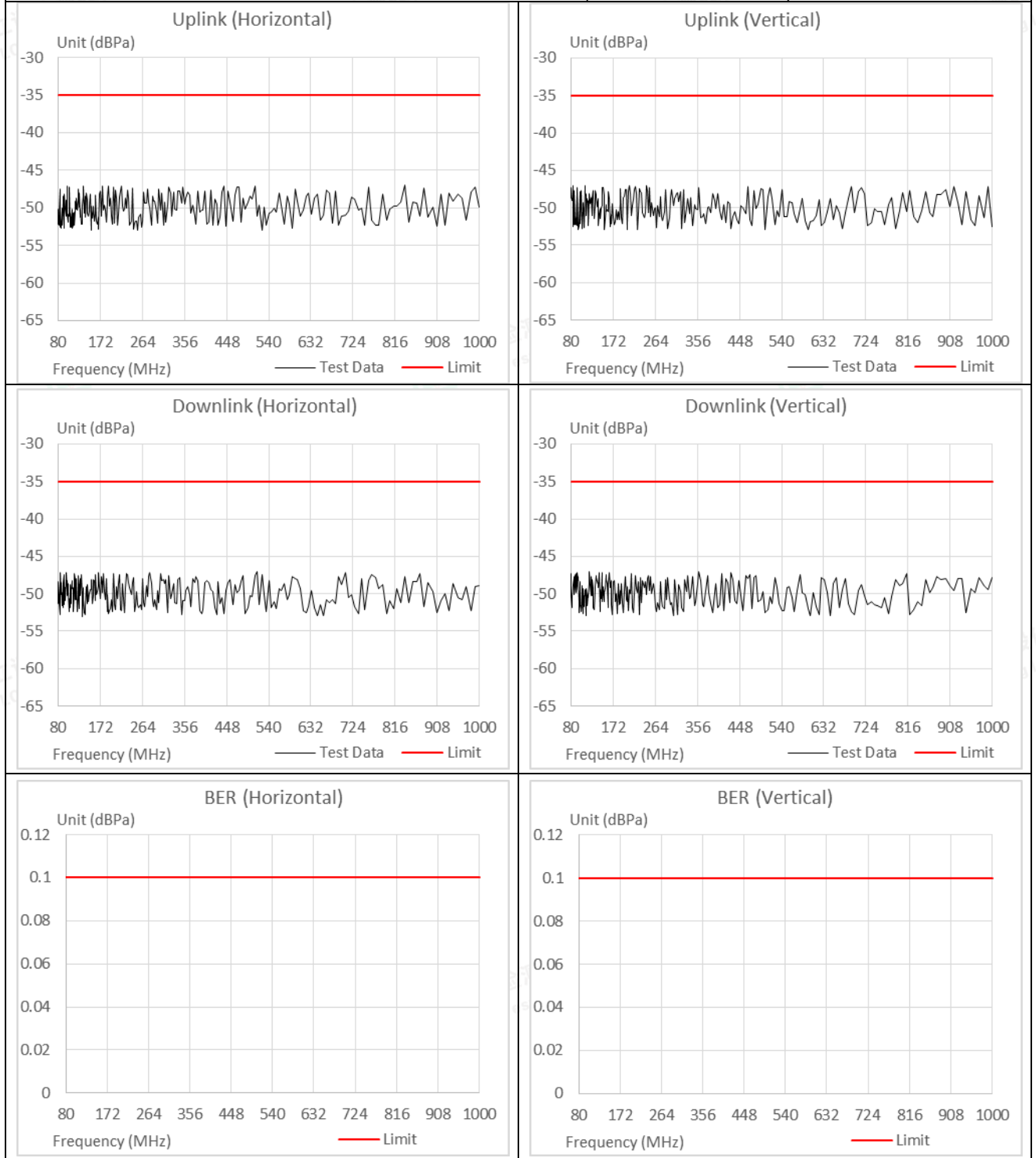
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Test Plots for WCDMA Band VIII (80MHz ~ 1000MHz)

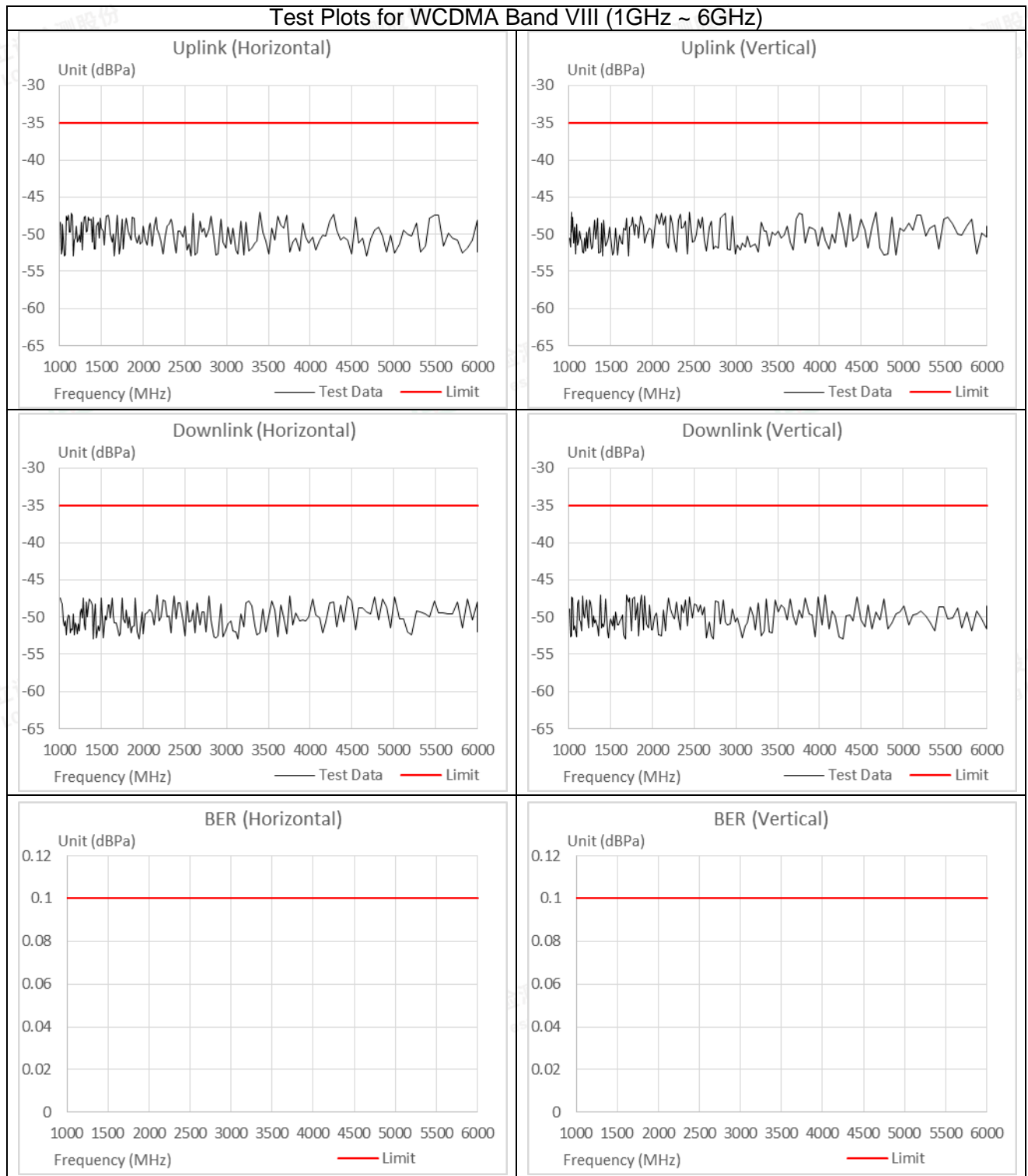


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

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 36 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 36 101 [13] during the test sequence.

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



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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	Smartphone	Temperature	22.5℃
M/N	NOTE 60	Humidity	53.4%
Criterion	B	Pressure	1021mbar
Test Mode	TM1-TM108	Test Engineer	Paddi Chen
TEST RESULT OF TM1-TM104			
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 TM105-TM107			
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 TM108			
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	Smartphone	Temperature	23.3℃
M/N	NOTE 60	Humidity	53.1 %
Test Mode	TM1-TM108	Criterion	B
Test Engineer	Paddi Chen		

TEST RESULT OF TM1-TM104

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 TM105-TM107

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

TEST RESULT OF TM108

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



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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 Huafurui Technology Co., Ltd.			
EUT	Smartphone	Temperature	23.8℃	
M/N	NOTE 60	Humidity	53.9%	
Test Mode	TM1-TM108	Criterion	A	
Test Engineer	Paddi Chen			
TEST RESULT OF TM1-TM104				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CT, CR	Pass
TEST RESULT OF TM105-TM107				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Observation	Result (Pass/Fail)
0.15 ~ 80	3V	AC Mains	CR	Pass
TEST RESULT OF TM108				
Frequency Range (MHz)	Strength (Unmodulated)	Injected Position	Result (Pass/Fail)	
0.15 ~ 80	3V	AC Mains	Pass	
Remark: 1. Modulation Signal:1kHz 80% AM				

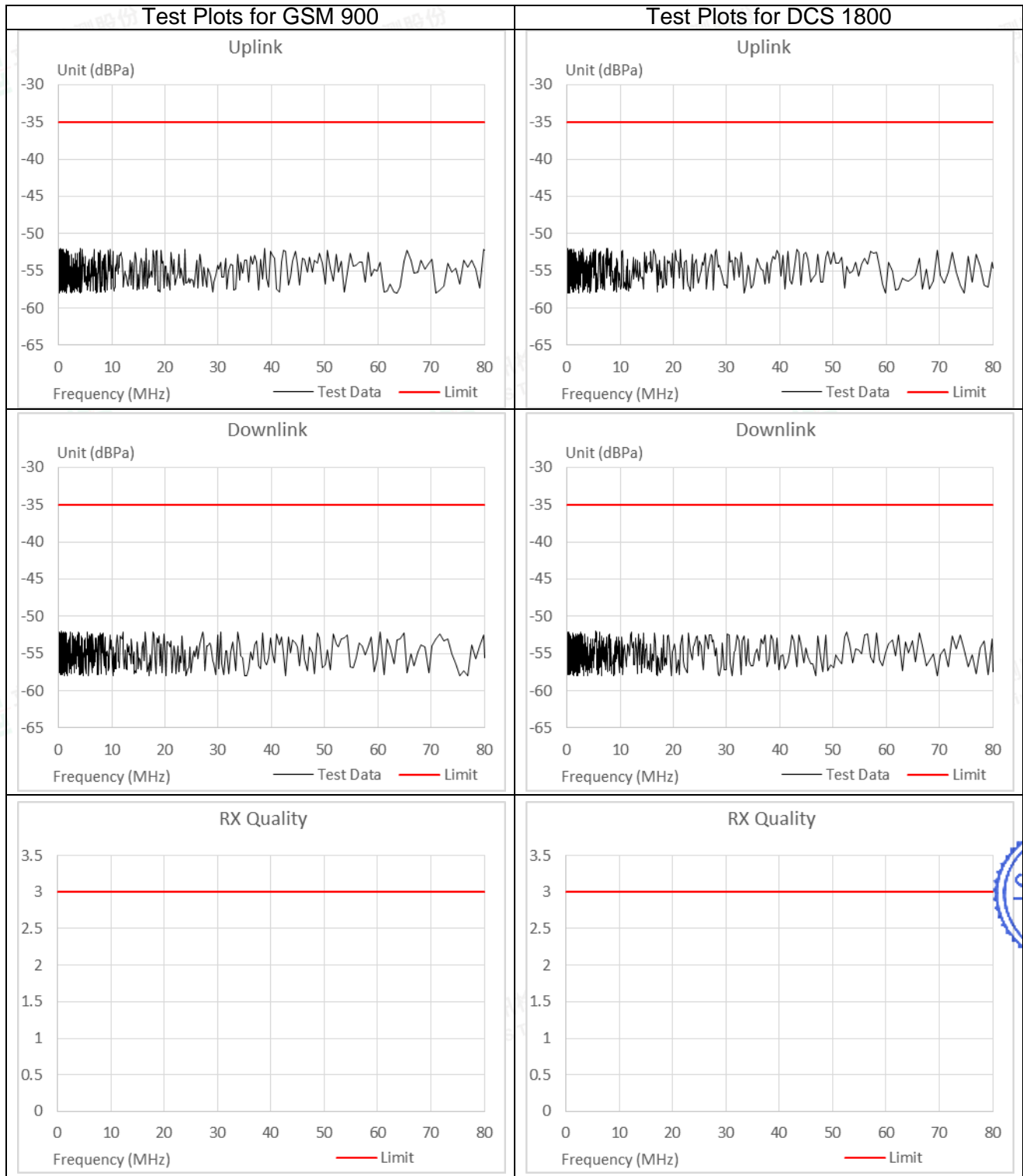


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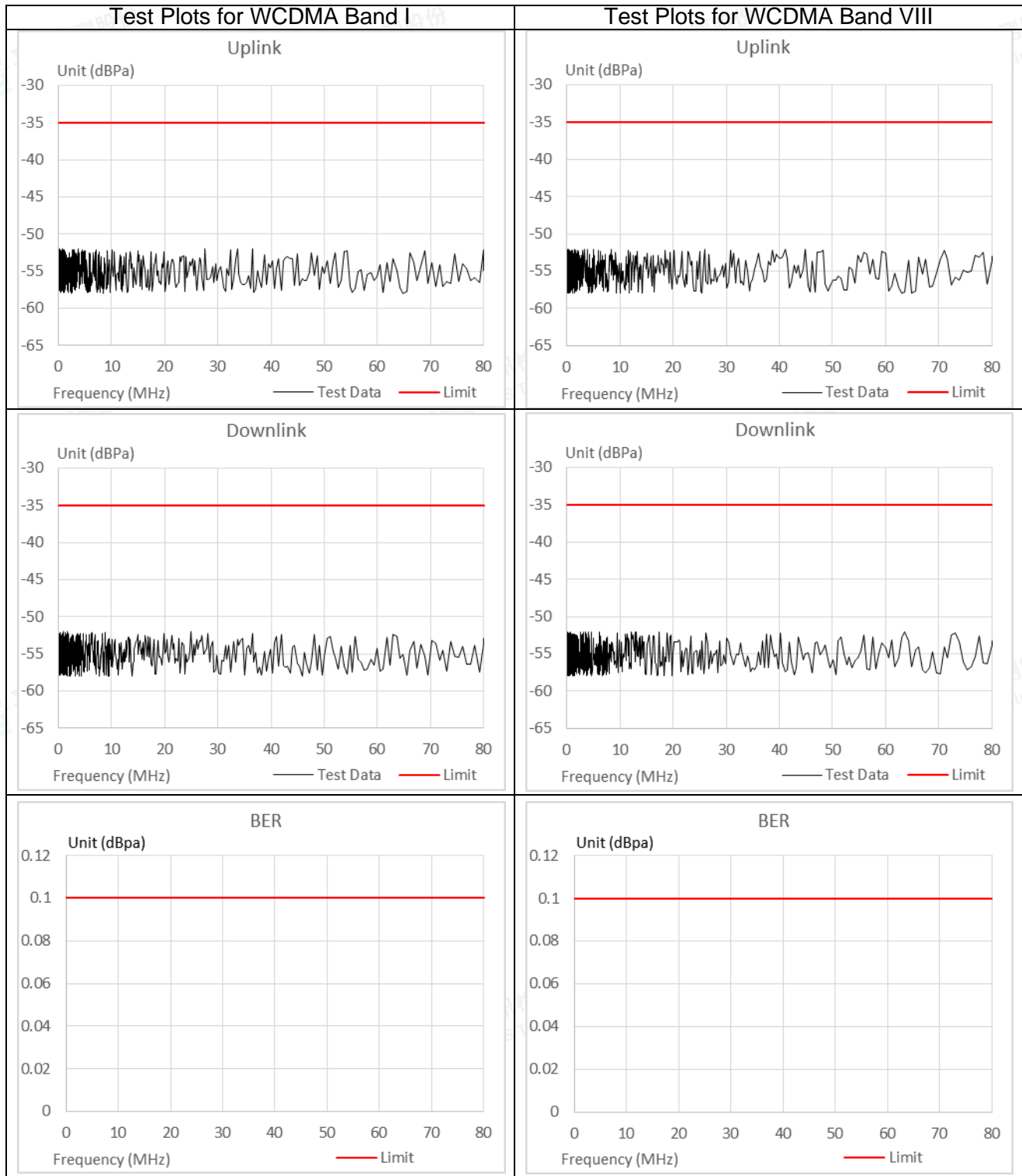


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

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, the minimum performance level shall be PER 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	25.1℃	
M/N	NOTE 60			Humidity	52.8%	
Test Mode	TM1-TM108			Criterion	B	
Test Engineer	Paddi Chen					
TEST RESULT OF TM1-TM104						
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 TM105-TM107						
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 TM108						
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.						



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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 Huafurui Technology Co., Ltd.			
EUT	Smartphone	Temperature	24.1℃	
M/N	NOTE 60	Humidity	54.6%	
Test Mode	TM1-TM108	Criterion	B&C	
Test Engineer	Paddi Chen			
TEST RESULT OF TM1-TM104				
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 TM105-TM107				
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 TM108				
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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