

FCC Test Report

FCC ID: PT7-K803

Product: Tablet PC
Trade Mark: Poppy
Model Number: K803
Family Model: K105, K105B, K803-V01, K803-V02,
K105-V01, K105-V02
Report No.: STR201221002005E

Prepared for

PIPO TECHNOLOGY CO., LIMITED
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Prepared by

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TEST RESULT CERTIFICATION**Applicant's name** PIPO TECHNOLOGY CO., LIMITED

Address..... Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang Avenue, Bao An District, Shenzhen, China.

Manufacturer's Name PIPO TECHNOLOGY CO., LIMITED

Address..... Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang Avenue, Bao An District, Shenzhen, China.

Product description

Product name Tablet PC

Model and/or type reference K803

Family Model..... K105, K105B, K803-V01, K803-V02, K105-V01, K105-V02

Standards FCC Part15B
ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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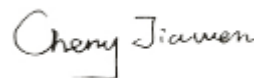
Date of Test

Date (s) of performance of tests: Dec 21. 2020 ~ Jan 20. 2021

Date of Issue.....: Jan 20. 2021

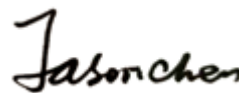
Test Result.....: **Pass**

Testing Engineer :



(Cheng Jiawen)

Technical Manager :



(Jason Chen)

Authorized Signatory :



(Alex Li)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

FCC Registration Number:463705; IC Registration Number:9270A-1

CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

Test Item	Measurement Frequency Range	K	U(dB)
AC Mains Conducted Emission	0.009kHz ~ 0.15MHz	2	2.66
AC Mains Conducted Emission	0.15MHz ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	2.40
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	2.58
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 6000MHz	2	5.10
Radiated Emission	6000MHz ~ 18000MHz	2	2.52
Power Clamp	30MHz ~ 300MHz	2	2.20

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC	
Trade Mark	Poppy	
Model Name	K803	
Family Model	K105, K105B, K803-V01, K803-V02, K105-V01, K105-V02	
Model Difference	All the model are the same circuit and RF module, except the Model names.	
Product Description	The EUT is a Tablet PC.	
	Connecting I/O port:	Micro USB, Earphone
	Operation Frequency:	5.825GHz
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	DC 3.7V/ 4000mAh from battery or DC 5V from Adapter.	
Adapter	Model: FX2U-050200U Input: 100-240V~50/60Hz 0.4A max Output: 5V ---2.0A	
HW Version	JS-S866T-9863A-V1.0	
SW Version	S866t_W20.19.4_P1_20210118	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Data Transmission

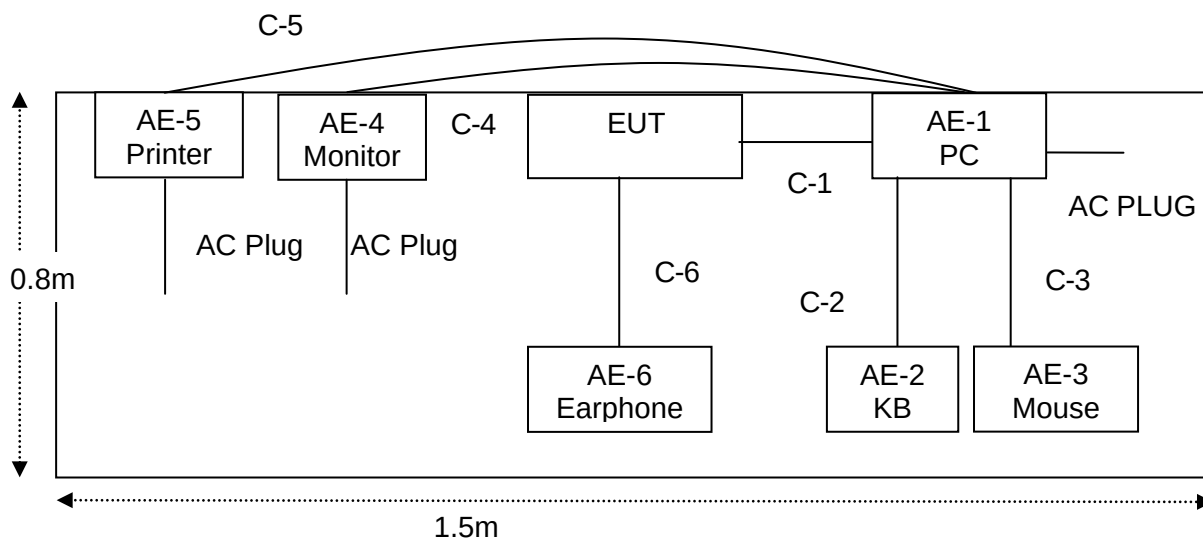
For Radiated Test	
Final Test Mode	Description
Mode 1	USB Data Transmission

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.

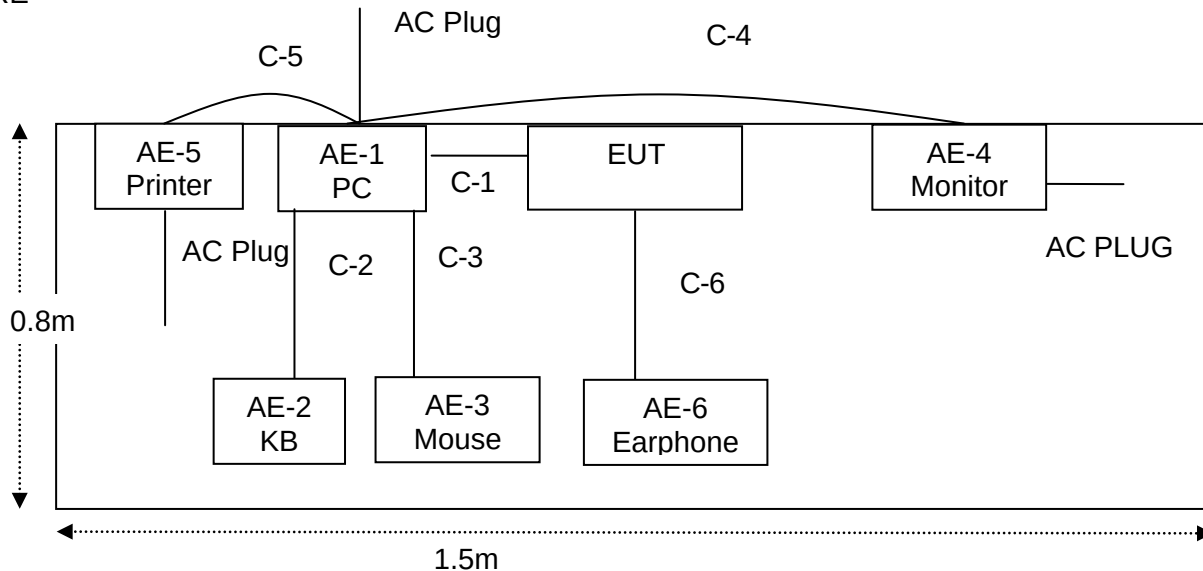
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

CE



RE



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	PC	DELL	N/A	N/A	Peripherals
AE-2	KB	HP	N/A	N/A	Peripherals
AE-3	Mouse	DELL	N/A	N/A	Peripherals
AE-4	Monitor	MI	N/A	N/A	Peripherals
AE-5	Printer	Canon	N/A	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	
C-6	Earphone cable	NO	NO	1.0m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2020.05.11	2023.05.10	3 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2020.05.11	2021.05.10	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2020.04.11	2021.04.10	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2020.05.11	2021.05.10	1 year
8	Amplifier	EMC	EMC051835SE	980246	2020.07.13	2021.07.12	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2020.05.11	2021.05.10	1 year
10	Power Meter	DARE	RPR3006W	15I00041SNO84	2020.07.13	2021.07.12	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.05	2020.05.11	2021.05.10	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.06.28	2022.06.27	3 year
13	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2019.06.28	2022.06.27	3 year

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.04.11	2021.04.10	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

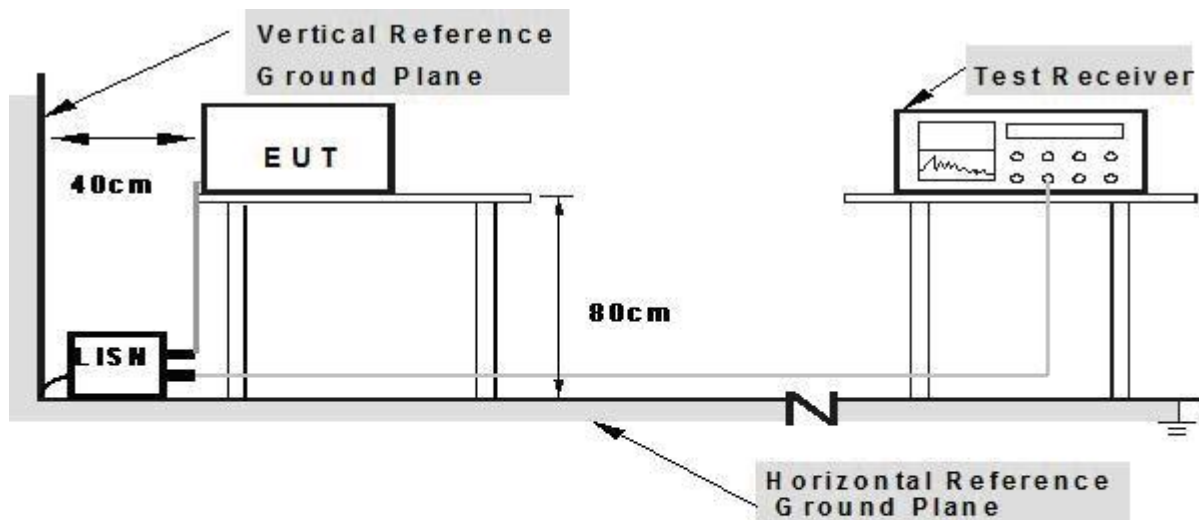
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISN s (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

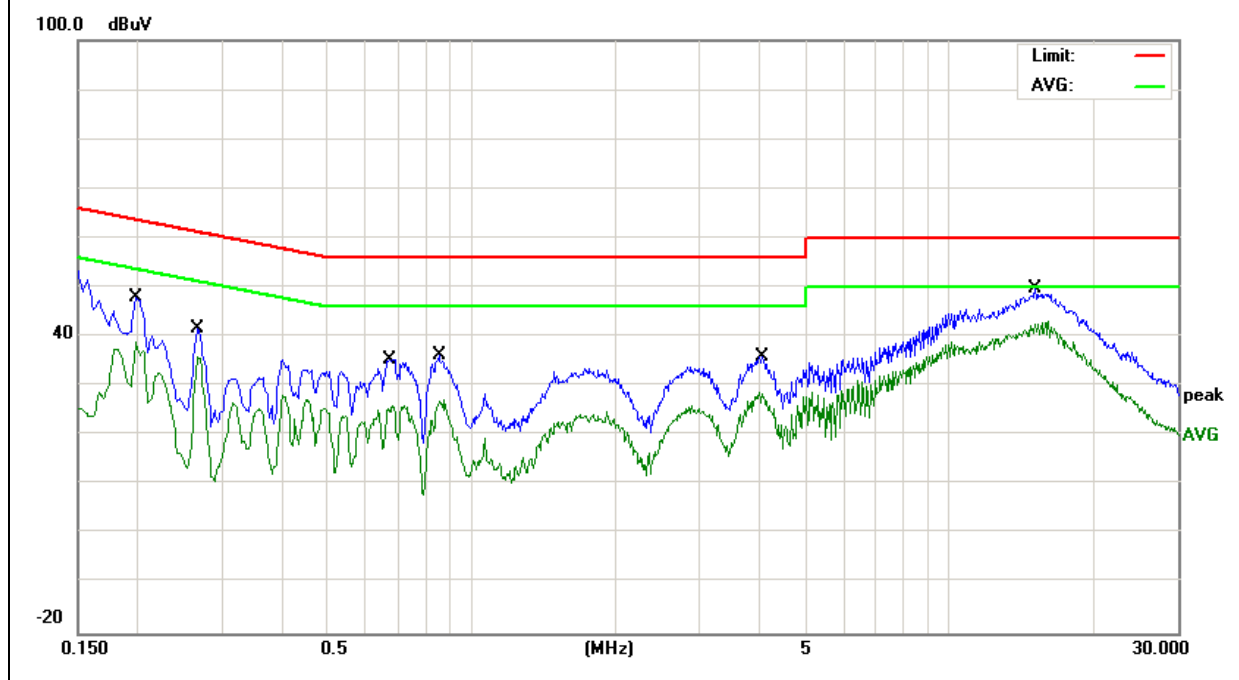
3.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name. :	K803
Temperature:	22.8 °C	Relative Humidity:	45%
Pressure:	1010hPa	Test Date:	2021-01-20
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC(AC 120V/60Hz)		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1980	38.38	9.55	47.93	63.69	-15.76	QP
0.1980	29.38	9.55	38.93	53.69	-14.76	AVG
0.2660	32.11	9.54	41.65	61.24	-19.59	QP
0.2660	26.46	9.54	36.00	51.24	-15.24	AVG
0.6740	25.75	9.55	35.30	56.00	-20.70	QP
0.6740	16.56	9.55	26.11	46.00	-19.89	AVG
0.8540	26.61	9.55	36.16	56.00	-19.84	QP
0.8540	17.75	9.55	27.30	46.00	-18.70	AVG
4.0538	26.29	9.60	35.89	56.00	-20.11	QP
4.0538	19.07	9.60	28.67	46.00	-17.33	AVG
15.0900	39.83	9.77	49.60	60.00	-10.40	QP
15.0900	33.25	9.77	43.02	50.00	-6.98	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

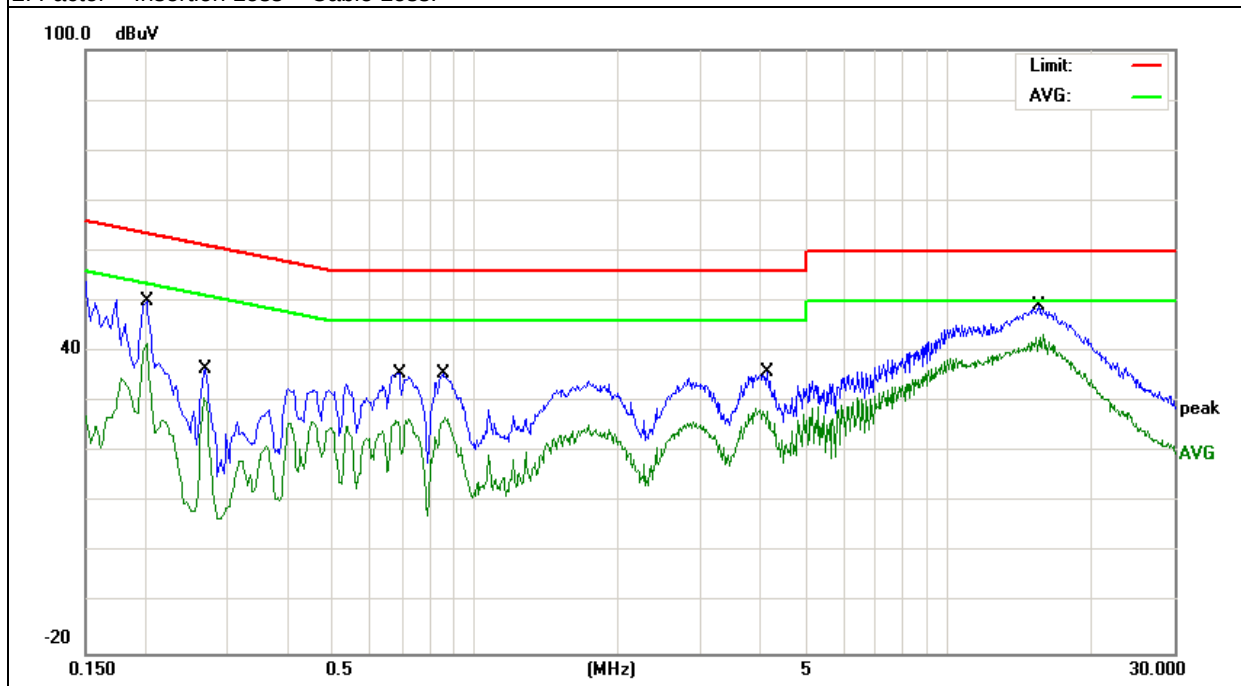


EUT:	Tablet PC	Model Name. :	K803
Temperature:	22.8 °C	Relative Humidity:	45%
Pressure:	1010hPa	Test Date:	2021-01-20
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC(AC 120V/60Hz)		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2020	40.56	9.54	50.10	63.52	-13.42	QP
0.2020	32.09	9.54	41.63	53.52	-11.89	AVG
0.2700	26.94	9.53	36.47	61.12	-24.65	QP
0.2700	21.21	9.53	30.74	51.12	-20.38	AVG
0.6900	26.08	9.54	35.62	56.00	-20.38	QP
0.6900	17.44	9.54	26.98	46.00	-19.02	AVG
0.8540	26.07	9.54	35.61	56.00	-20.39	QP
0.8540	17.44	9.54	26.98	46.00	-19.02	AVG
4.1500	26.35	9.60	35.95	56.00	-20.05	QP
4.1500	19.41	9.60	29.01	46.00	-16.99	AVG
15.5180	39.30	9.77	49.07	60.00	-10.93	QP
15.5180	33.54	9.77	43.31	50.00	-6.69	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

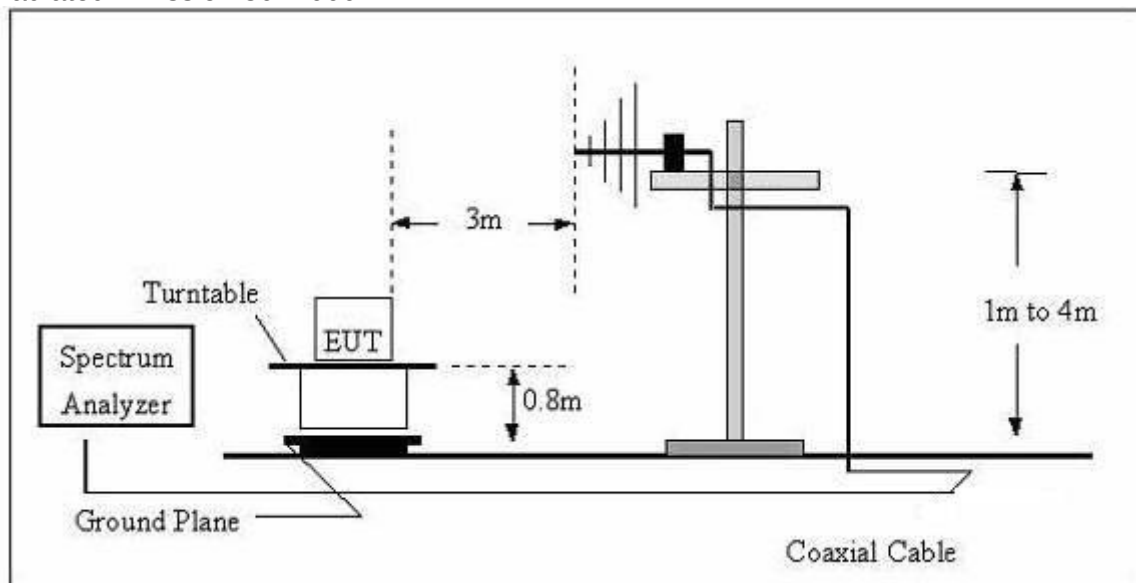
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the

worst case is recorded in the report
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

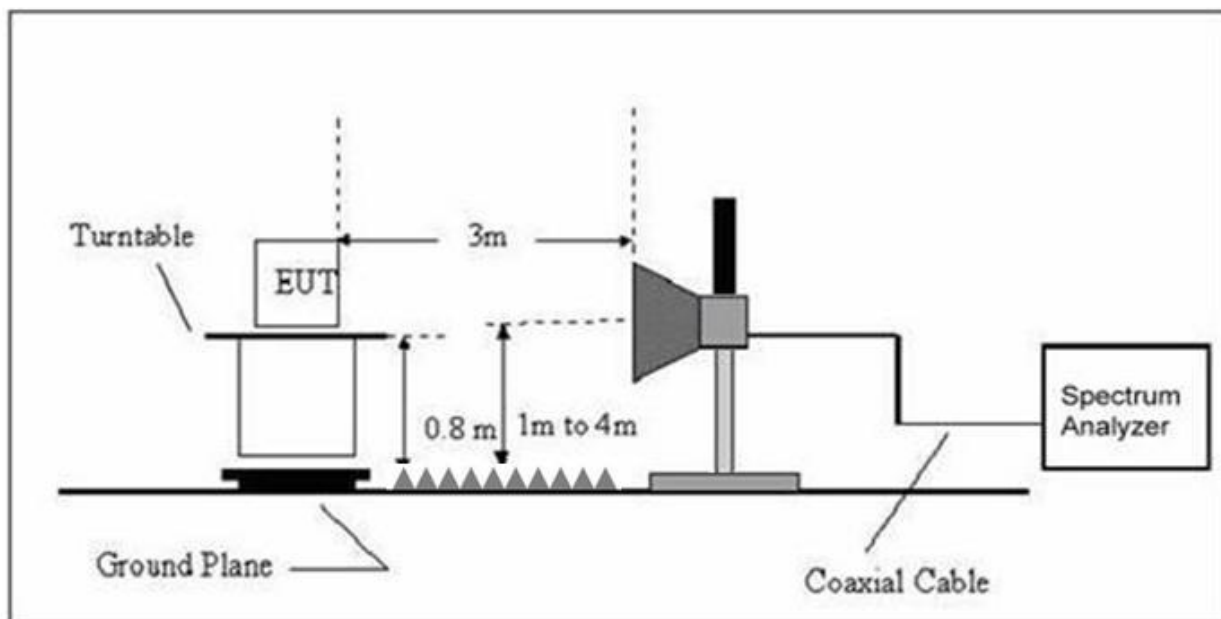
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 TEST RESULTS

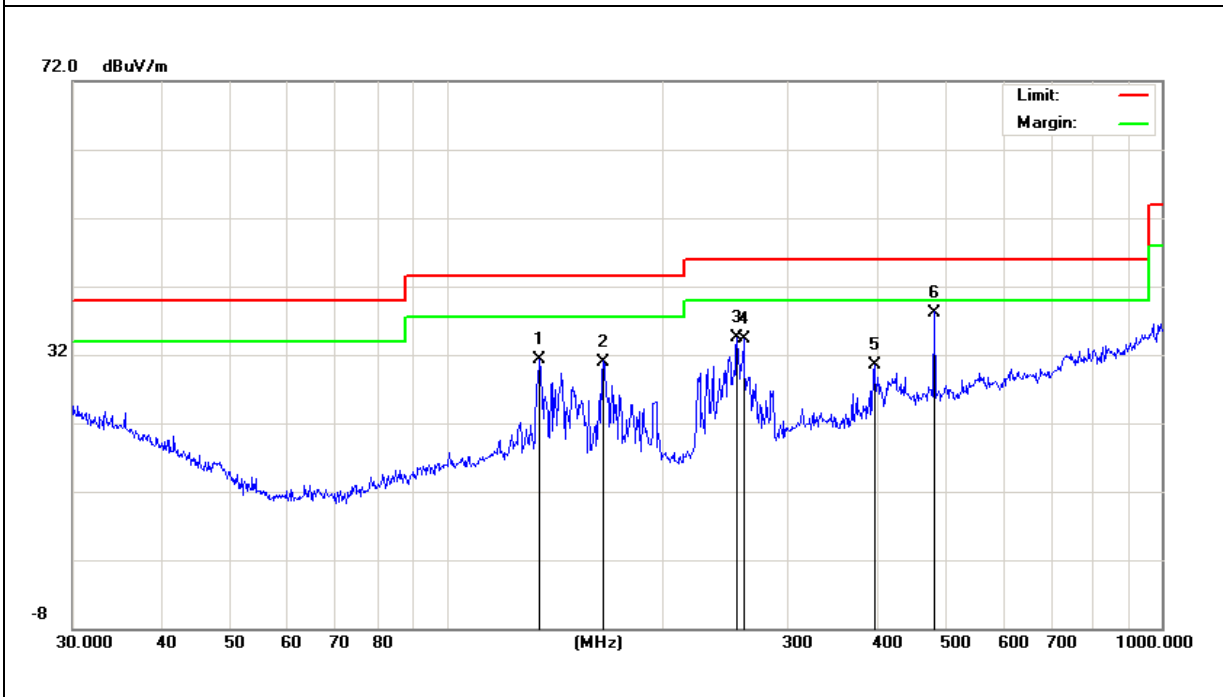
TEST RESULTS (30~1000 MHz)

EUT:	Tablet PC	Model Name:	K803
Temperature:	25.3 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2021-01-05
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC(AC 120V/60Hz)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	135.0319	18.71	12.50	31.21	43.50	-12.29	QP
H	165.4866	20.37	10.63	31.00	43.50	-12.50	QP
H	254.7284	20.58	13.85	34.43	46.00	-11.57	QP
H	260.1444	19.27	14.96	34.23	46.00	-11.77	QP
H	396.2414	12.92	17.68	30.60	46.00	-15.40	QP
H	480.5276	18.69	19.51	38.20	46.00	-7.80	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.

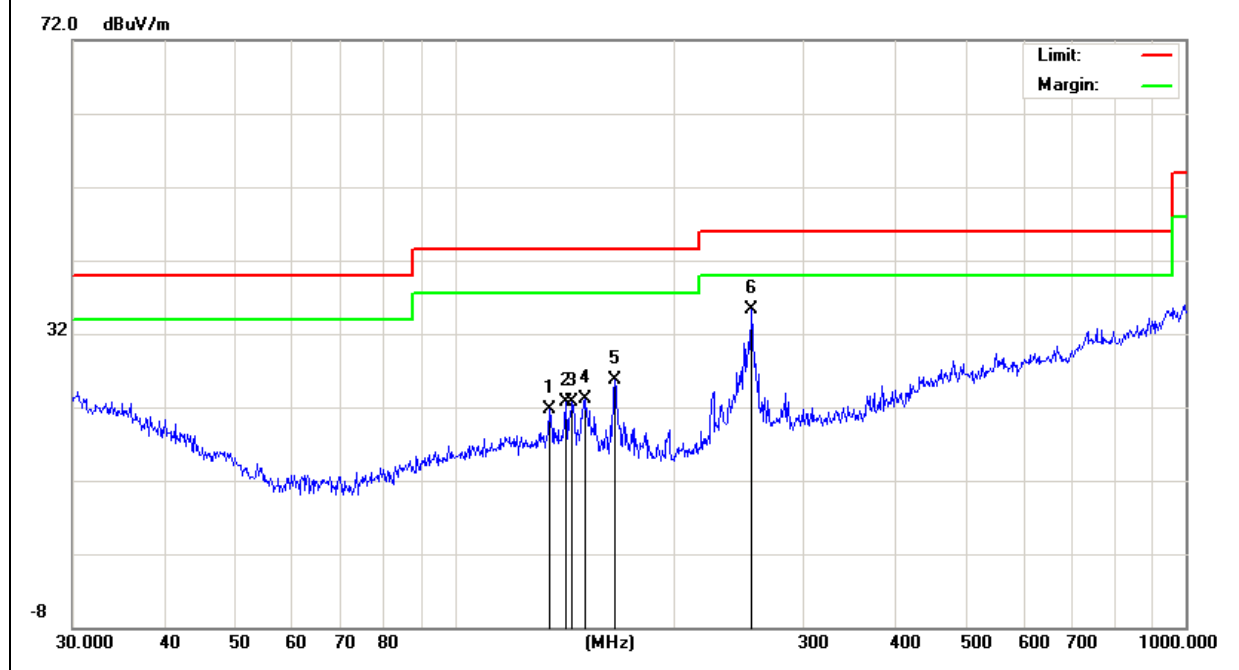


EUT:	Tablet PC	Model Name :	K803
Temperature:	25.3 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2021-01-05
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC(AC 120V/60Hz)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	134.5592	9.14	12.50	21.64	43.50	-21.86	QP
V	141.8262	10.41	12.28	22.69	43.50	-20.81	QP
V	144.8418	10.71	12.05	22.76	43.50	-20.74	QP
V	150.5378	11.17	11.94	23.11	43.50	-20.39	QP
V	165.4866	15.08	10.63	25.71	43.50	-17.79	QP
V	254.7284	21.37	13.85	35.22	46.00	-10.78	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.



3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Tablet PC	Model Name :	K803
Temperature:	24.6℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2021-01-06
Test Mode :	Mode 1		
Test Power :	DC 5V from PC(AC 120V/60Hz)		

All the test modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	1384.262	64.41	-26.80	37.61	74.00	-36.39	peak
V	2147.500	64.24	-22.40	41.84	74.00	-32.16	peak
V	2912.500	64.40	-21.93	42.47	74.00	-31.53	peak
V	4230.000	65.37	-15.84	49.53	74.00	-24.47	peak
V	4782.500	63.81	-13.98	49.83	74.00	-24.17	peak
V	5930.000	63.40	-14.12	49.28	74.00	-24.72	peak
H	1212.500	64.22	-26.99	37.23	74.00	-36.77	peak
H	2001.084	65.20	-23.40	41.80	74.00	-32.20	peak
H	2955.000	63.90	-21.79	42.11	74.00	-31.89	peak
H	3805.000	62.76	-17.56	45.20	74.00	-28.80	peak
H	4825.000	63.37	-13.92	49.45	74.00	-24.55	peak
H	6567.500	63.74	-12.23	51.51	74.00	-22.49	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level – Limit

Note: Only the worst results data points are reported in the report.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

END OF REPORT