

FCC Test Report

FCC ID: PT7-W16

Product: Tablet PC

Trade Mark: PIPO

Model Number: W16

Family Model: W10, W11, W12, W13, W14,
W15, W17, W18, W19, W20,
T7, T8, T9, T10, T11, T12, T13,
T14, SF141, SF142, SF143

Report No.: S24052205003005

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., LIMITEDAddress.....: Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang
Avenue, Bao An Distric, Shenzhen, China**Manufacturer's Name**.....: PIPO TECHNOLOGY CO., LIMITEDAddress.....: Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang
Avenue, Bao An Distric, Shenzhen, China**Product description**

Product name.....: Tablet PC

Model and/or type reference : W16

Family Model.....: W10, W11, W12, W13, W14, W15, W17, W18, W19,
W20, T7, T8, T9, T10, T11, T12, T13, T14, SF141, SF142, SF143Standards.....: 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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Test Sample Number.....: S240522050003**Date of Test**

Date (s) of performance of tests.....: May 22, 2024 ~ Jun 19, 2024

Date of Issue

Test Result

Prepared By: Joe. Yan
Joe. Yan
(Project Engineer)Reviewed By: Aaron Cheng
Aaron Cheng
(Supervisor)Approved By: Alex Li
Alex Li
(Manager)

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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.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement :


Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	$\pm 2.80\text{dB}$	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	$\pm 2.64\text{dB}$	
		1GHz~6GHz	$\pm 2.40\text{dB}$	
		6GHz~26.5GHz	$\pm 2.52\text{dB}$	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC	
Trade Mark	PIPO	
Model Name	W16	
Family Model	W10, W11, W12, W13, W14, W15, W17, W18, W19, W20, T7, T8, T9, T10, T11, T12, T13, T14, SF141, SF142, SF143	
Model Difference	All the model are the same circuit and RF module, except the model names.	
Product Description	Connecting I/O port:	N/A
	Operation Frequency:	2.4 GHz by WiFi (Declaration by Manufacturer)
	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.	
Adapter	Model: FX36U-120300C Input: 100-240V~50/60Hz 0.8A Output: 12V  3A (36.0W)	
Battery	DC 7.6V, 5000mAh, 38Wh	
Power supply	DC 7.6V from battery or DC 12V from adapter	
HW Version	N/A	
SW Version	N/A	

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
Model 1	Burning Test(REC Front + HDMI + USB)
Model 2	Burning Test(REC Rear + HDMI + USB)

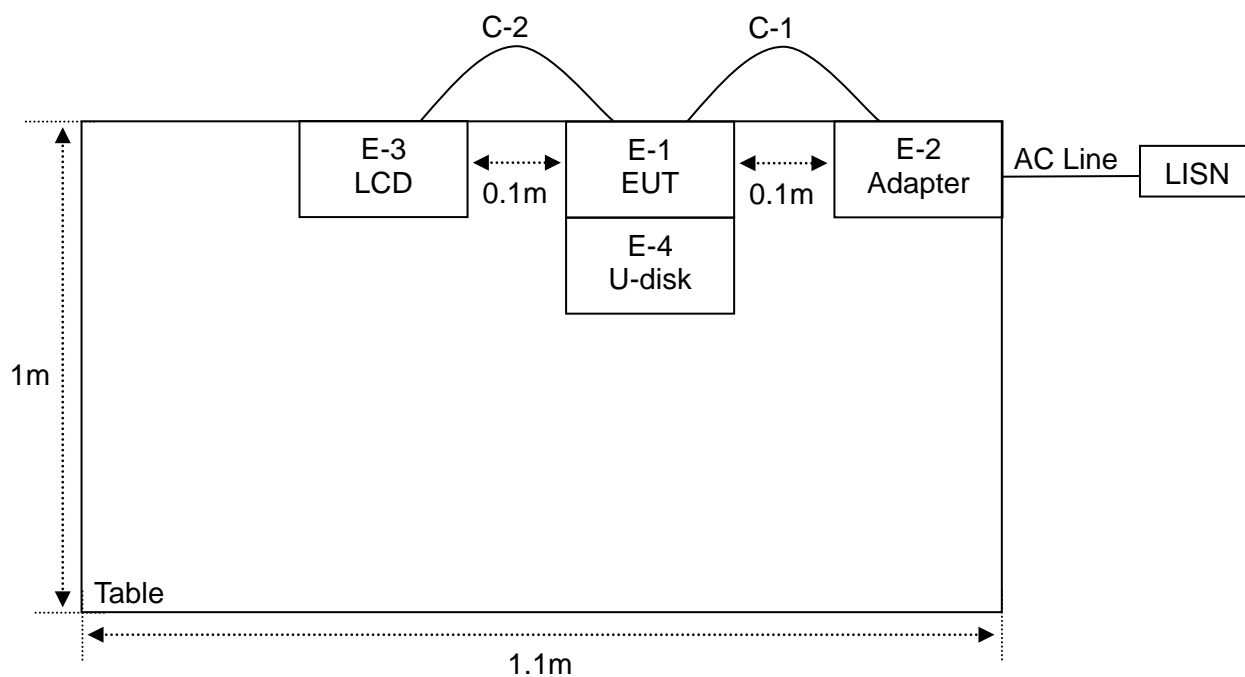
For Conducted Test	
Final Test Mode	Description
Model 1	Burning Test(REC Front + HDMI + USB)
Model 2	Burning Test(REC Rear + HDMI + USB)

For Radiated Test	
Final Test Mode	Description
Model 1	Burning Test(REC Front + HDMI + USB)
Model 2	Burning Test(REC Rear + HDMI + USB)

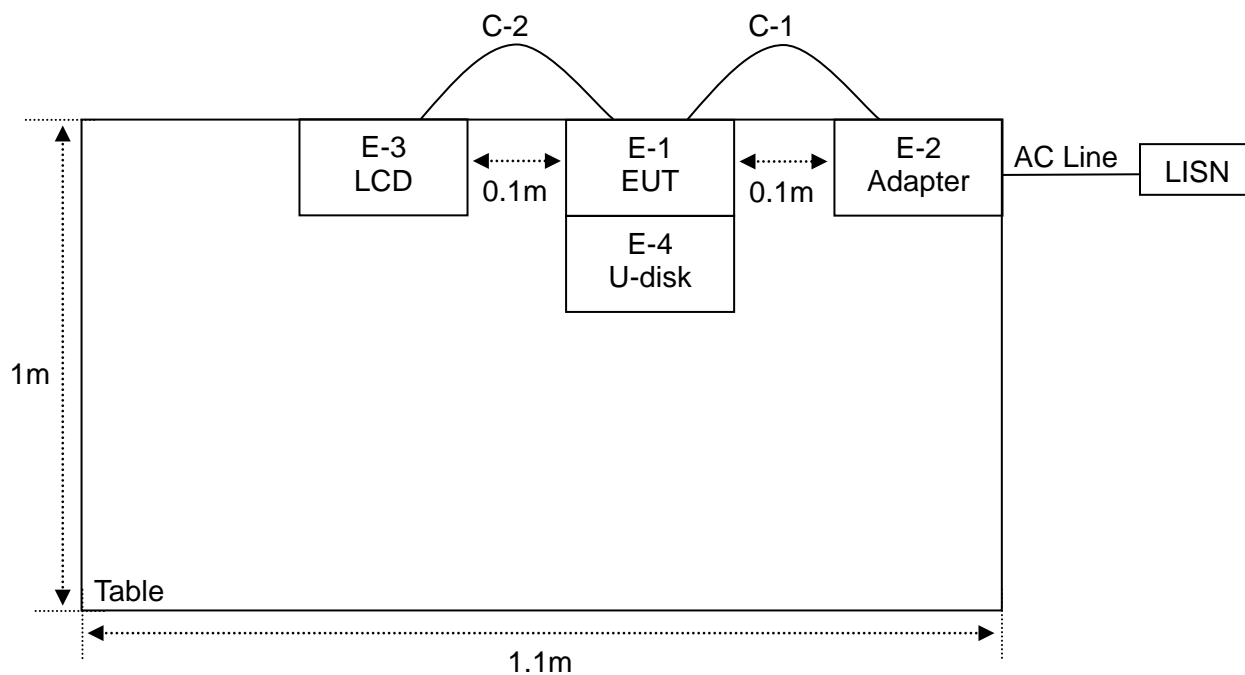
Note: Final Test Mode: Through Pre-scan, find the model 1 is the worst case.
Only the worst case mode is recorded in the report.

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
E-1	Tablet PC	PIPO	W16	N/A	EUT
E-2	Adapter		FX36U-120300C	N/A	EUT
E-3	LCD		L32M5-AZ	N/A	
E-4	U-disk	N/A	N/A	N/A	

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	

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	2024.03.12	2025.03.11	1 year
2	Test Receiver	R&S	ESPI	101318	2024.03.12	2025.03.11	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2024.03.12	2025.03.11	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2024.03.12	2025.03.11	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2025.05.12	2027.05.11	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2025.05.12	2027.05.11	3 year
8	Amplifier	EMC	EMC051835SE	980246	2024.01.23	2025.01.22	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2024.04.26	2025.04.25	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN084	2024.04.25	2025.04.24	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.05	2024.03.12	2025.03.11	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2023.05.06	2026.05.05	3 year
15	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 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	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	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.

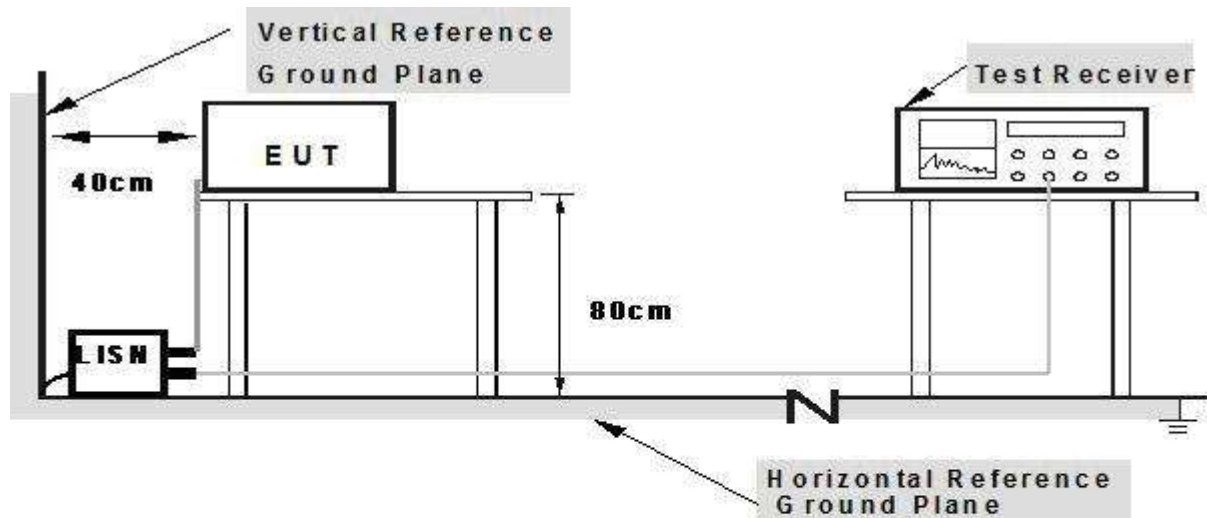
The following table is the setting of the receiver

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 LISNs (AMN) are 80 cm from EUT and at least 80 cm 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.

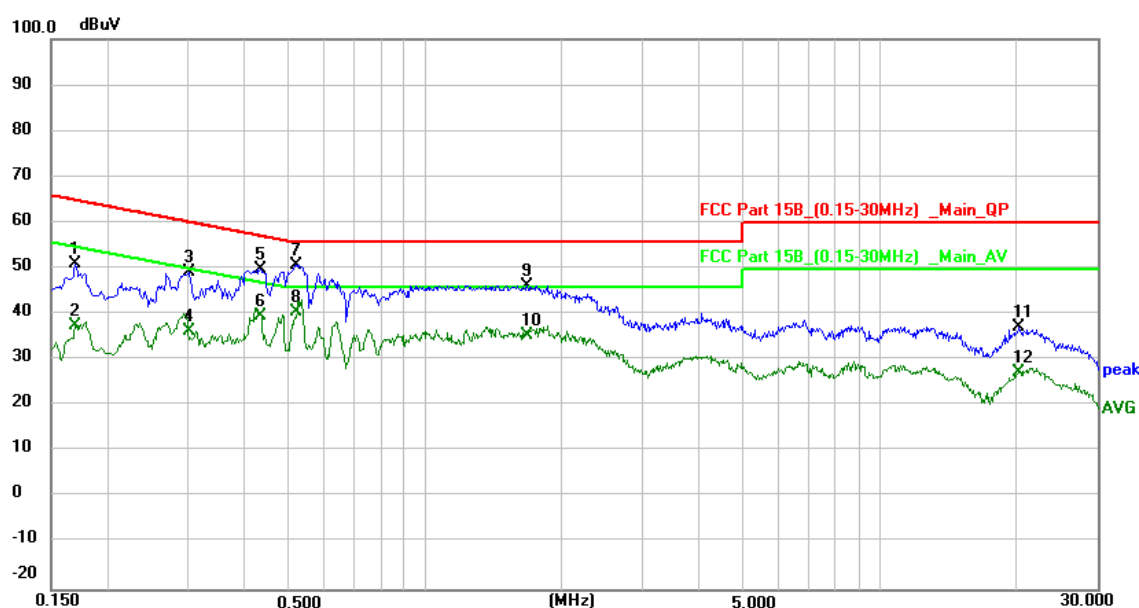
3.1.5 TEST RESULTS

EUT:	Tablet PC	Model Name. :	W16
Temperature:	24.5 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024-05-24
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 12V from PC AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1700	40.96	9.97	50.93	64.96	-14.03	QP
0.1700	27.62	9.97	37.59	54.96	-17.37	AVG
0.3020	39.06	10.24	49.30	60.19	-10.89	QP
0.3020	26.24	10.24	36.48	50.19	-13.71	AVG
0.4340	39.36	10.51	49.87	57.18	-7.31	QP
0.4340	29.13	10.51	39.64	47.18	-7.54	AVG
0.5181	40.02	10.69	50.71	56.00	-5.29	QP
0.5181	29.85	10.69	40.54	46.00	-5.46	AVG
1.6780	33.22	13.02	46.24	56.00	-9.76	QP
1.6780	22.62	13.02	35.64	46.00	-10.36	AVG
20.2300	27.59	9.72	37.31	60.00	-22.69	QP
20.2300	17.78	9.72	27.50	50.00	-22.50	AVG

Remark:

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

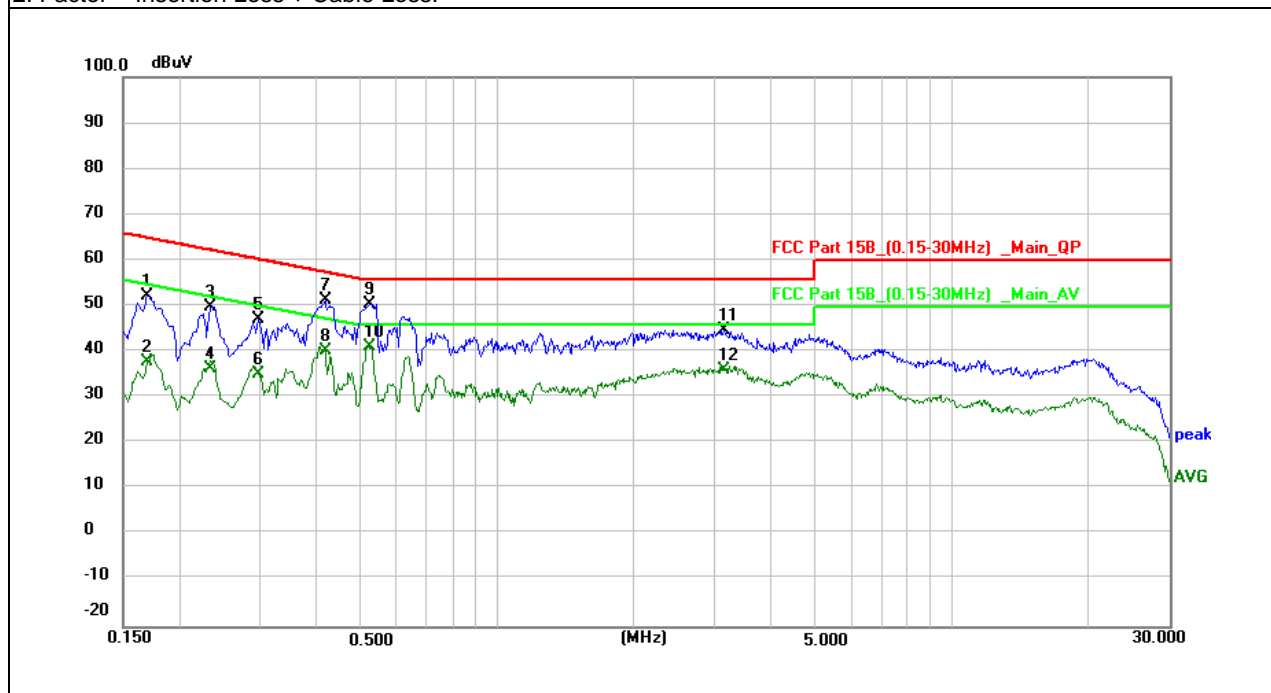


EUT:	Tablet PC	Model Name. :	W16
Temperature:	24.5 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024-05-24
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 12V from PC AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1700	42.40	9.97	52.37	64.96	-12.59	QP
0.1700	28.03	9.97	38.00	54.96	-16.96	AVG
0.2340	39.88	10.10	49.98	62.31	-12.33	QP
0.2340	26.17	10.10	36.27	52.31	-16.04	AVG
0.2980	36.97	10.24	47.21	60.30	-13.09	QP
0.2980	24.88	10.24	35.12	50.30	-15.18	AVG
0.4180	40.75	10.49	51.24	57.49	-6.25	QP
0.4180	29.71	10.49	40.20	47.49	-7.29	AVG
0.5220	39.78	10.69	50.47	56.00	-5.53	QP
0.5220	30.61	10.69	41.30	46.00	-4.70	AVG
3.1460	35.10	9.67	44.77	56.00	-11.23	QP
3.1460	26.43	9.67	36.10	46.00	-9.90	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.

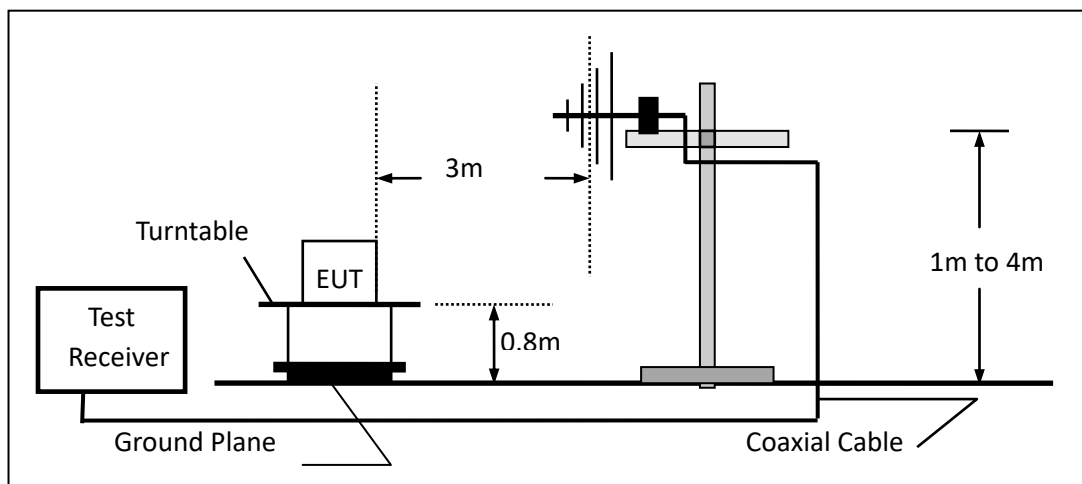
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

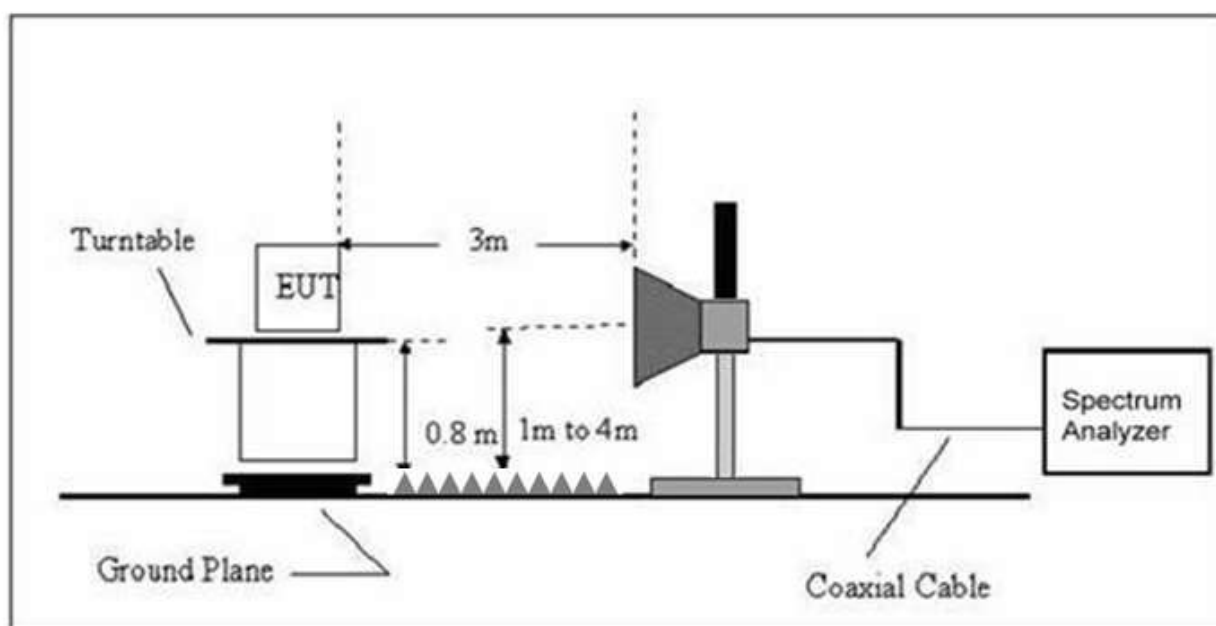
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



3.2.4 TEST RESULTS

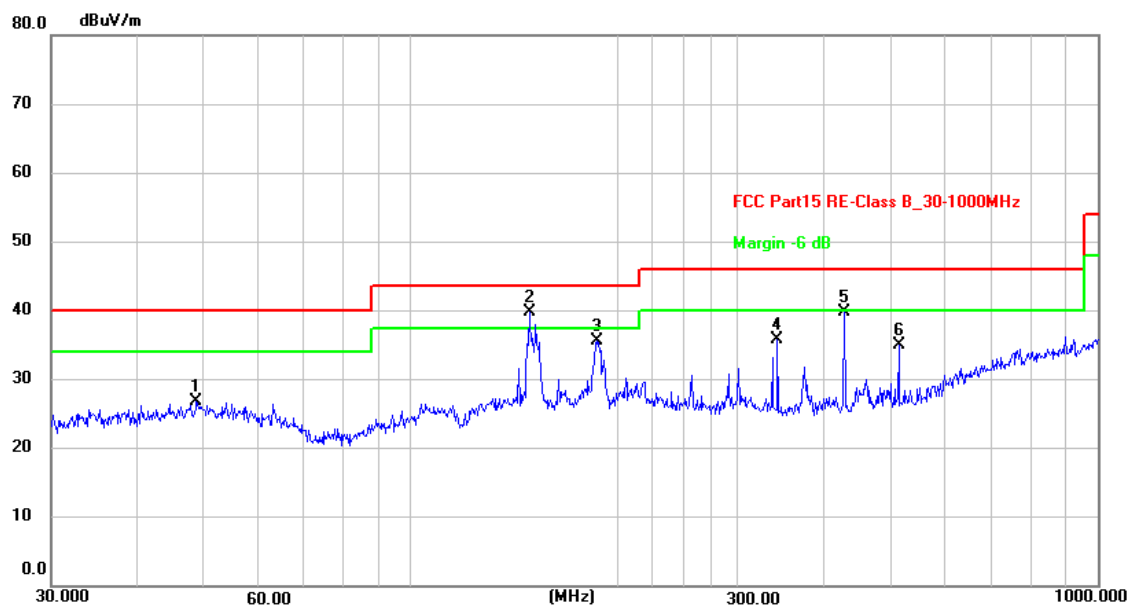
TEST RESULTS (30~1000 MHz)

EUT:	Tablet PC	Model Name:	W16
Temperature:	24.5 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 12V 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	48.8427	6.22	20.53	26.75	40.00	-13.25	QP
H	148.9624	24.63	15.17	39.80	43.50	-3.70	QP
H	187.0956	17.94	17.65	35.59	43.50	-7.91	QP
H	341.9786	14.81	21.05	35.86	46.00	-10.14	QP
H	428.0192	17.18	22.71	39.89	46.00	-6.11	QP
H	513.6331	10.99	23.97	34.96	46.00	-11.04	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

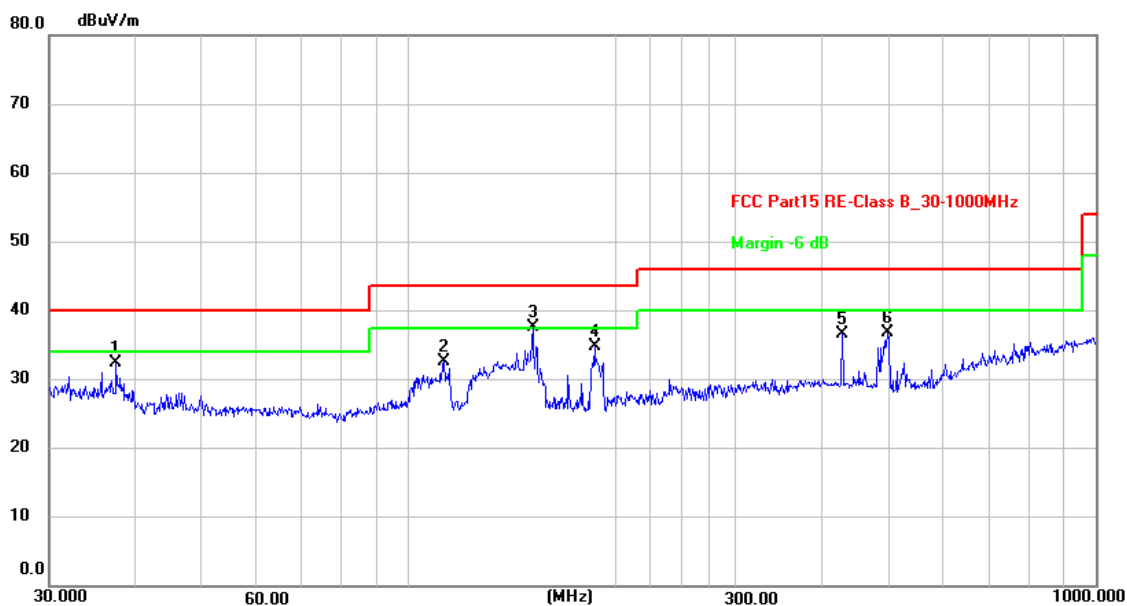


EUT:	Tablet PC	Model Name :	W16
Temperature:	24.5 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 12V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	37.5478	13.13	19.20	32.33	40.00	-7.67	QP
V	112.5242	14.23	18.29	32.52	43.50	-10.98	QP
V	151.5971	22.31	15.28	37.59	43.50	-5.91	QP
V	186.4407	17.29	17.52	34.81	43.50	-8.69	QP
V	428.0192	13.82	22.71	36.53	46.00	-9.47	QP
V	497.6764	12.91	23.93	36.84	46.00	-9.16	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Tablet PC	Model Name :	W16
Temperature:	24.5 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1		
Test Power :	DC 12V from PC AC 120V/60Hz		

All the modulation 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	3091.000	51.96	-15.40	36.56	74.00	-37.44	peak
V	3091.000	40.52	-15.40	25.12	54.00	-28.88	AVG
V	5233.000	56.78	-12.86	43.92	74.00	-30.08	peak
V	5233.000	43.11	-12.86	30.25	54.00	-23.75	AVG
V	6865.000	50.50	-9.34	41.16	74.00	-32.84	peak
V	6865.000	37.79	-9.34	28.45	54.00	-25.55	AVG
V	9398.000	47.89	-5.40	42.49	74.00	-31.51	peak
V	9398.000	36.45	-5.40	31.05	54.00	-22.95	AVG
V	10027.000	47.73	-4.91	42.82	74.00	-31.18	peak
V	10027.000	34.24	-4.91	29.33	54.00	-24.67	AVG
V	13597.000	45.31	-1.07	44.24	74.00	-29.76	peak
V	13597.000	32.52	-1.07	31.45	54.00	-22.55	AVG
H	2564.000	53.37	-17.90	35.47	74.00	-38.53	peak
H	2564.000	42.59	-17.90	24.69	54.00	-29.31	AVG
H	4910.000	50.86	-13.14	37.72	74.00	-36.28	peak
H	4910.000	41.26	-13.14	28.12	54.00	-25.88	AVG
H	6797.000	50.20	-9.38	40.82	74.00	-33.18	peak
H	6797.000	39.58	-9.38	30.20	54.00	-23.80	AVG
H	9279.000	48.50	-5.47	43.03	74.00	-30.97	peak
H	9279.000	34.82	-5.47	29.35	54.00	-24.65	AVG
H	11710.000	45.61	-2.73	42.88	74.00	-31.12	peak
H	11710.000	32.18	-2.73	29.45	54.00	-24.55	AVG
H	13308.000	45.90	-1.06	44.84	74.00	-29.16	peak
H	13308.000	32.47	-1.06	31.41	54.00	-22.59	AVG

Remark:

Result = Reading + Correct, Over Limit= Result - Limit

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

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

END OF REPORT