





# **FCC Part 15B TEST REPORT**

Report No: STS1803233E01

Issued for

Janam Technologies LLC

100 Crossways Park West Suite 105, Woodbury New York United States 11797

Product Name:	MOBILE BARCODE TERMINAL
Brand Name:	XT
Model Name:	XT20
Series Model:	N/A
FCC ID:	UTWXT20
Test Standard:	FCC Part 15B

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#### **TEST RESULT CERTIFICATION**

. 100 Crossways Park West Suite 105, Woodbury New York United

States 11797

Manufacture's Name ...... Portable Innovation Technology Limited

Address ..... Flat A, 6/F, Reason Group Tower, 403-413 Castle Peak Road (Kwai

Chung), Kwai Chung, NT, Hong Kong

**Product description** 

Product name...... MOBILE BARCODE TERMINAL

Brand name.....: XT

Model Name ..... XT20

Series Model ...... N/A

Standards..... FCC Part 15B

Test procedure ...... ANSI C63.4-2014

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

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Date of Test.....

Date of performance of tests ..... 16 Mar. 2018~02 Apr. 2018

Date of Issue ...... 03 Apr. 2018

Test Result ...... Pass

Testing Engineer : Kyll. Ravo

(Kyle Rao)

Technical Manager :

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(Chopin Xiao)

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# **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	03 Apr. 2018	STS1803233E01	ALL	Initial Issue



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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit
FOC 47 OFK FAIL IS Subpail B	Radiated Emission	PASS	Meet Class B limit

## NOTE:

(1) " N/A" denotes test is not applicable in this Test Report

#### 1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China		
Telephone:	+86-755 3688 6288	
Fax:	+86-755 3688 6277	
Pagistration No :	CNAS Registration No.: L7649; FCC Registration No.: 625569	
Registration No.:	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;	

## 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 %  $^{,}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.73dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.92dB
6	All emissions,radiated(>1G)	±3.31dB





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Product Name	MOBILE BARCODE TERMINAL		
1 Toddet Ivanie	INOBILE BAROODE TERMINAL		
Brand Name	ХТ		
Model Name	XT20		
Series Model	N/A		
Model Difference	N/A		
	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz	
	WCDMA	Band II: 1852.4~1907.6MHz Band V: 826.4~846.6MHz	
Frequency Bands	LTE	Band 5: 824.7~848.3MHz Band 7: 2502.5~2567.5MHz Band 41: 2503.5~2587.5MHz	
	WLAN	2.4GHz 802.11b/g/n(HT20/40):2412~2462MHz 5GHz IEEE 802.11a/n: 5150 MHz to 5250 MHz 5GHz IEEE 802.11a/n: 5250 MHz to 5350 MHz SRD: 5725 MHz to 5875 MHz	
	Bluetooth	2402~2480MHz	
	GSM	GMSK for GPRS; GMSK and 8PSK for EDGE	
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK	
	LTE	QPSK/16QAM;	
Modulation Mode	WLAN	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	
	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8DPSK	
	BLE BT(1Mbps): GFSK		
Adapter	Input: AC100-240VV, 500mA, 50/60HzHz Output: DC 5.2V, 2000mA		
Battery	Rated Voltage: 3.7V Capacity: 3150mAh		



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	Charge Limit: 4.25V	
Hardware version number	ST32LTE-HW-v02	
Software version number	ALPS.L1.MP3.V2.135_AM6735M.65C.L1	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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 port communication with PC	

For Conducted Test		
Final Test Mode Description		
Mode 1	USB port communication with PC	

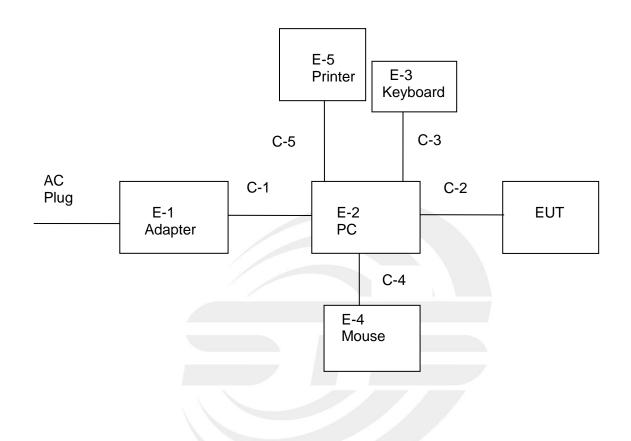
For Radiated Test		
Final Test Mode Description		
Mode 1	USB port communication with PC	

#### NOTE:

- The test modes were carried out for all operation modes. Only worst case will be show in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz) for which the device is capable of operation.



## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





## 2.4 DESCRIPTION OF SUPPORT UNITS

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	Mfr/Brand	Model/Type No.
E-1	Adapter	N/A	N/A
E-2	PC	4CV428DQXR	500-320cx
E-3	Keyboard	HP	PR1101U
E-4	Mouse	MOTOSPEED	F66
E-5	Printer	HP	HP1020

Item	Shielded Type	Ferrite Core	Length
C-1	Shielded	NO	68cm
C-2	USB Cable (FTP)	NO	75cm
C-3	USB Cable (FTP)	NO	83cm
C-4	USB Cable (FTP)	NO	89cm
C-5	USB Cable (FTP)	NO	90cm

## 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 <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

## Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	SCHWARZBE CK	BBHA 9120D	1343	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	E4407B	MY50140340	2018.03.08	2019.03.07
Pre-mplifier(1G-18 G)	Agilent	8449B	60538	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.03.08	2019.03.07
Pre-mplifier(0.1M-3 GHz)	EM	EM330		2018.03.11	2019.03.10

# Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	23625	2017.10.15	2018.10.14
Absorbing clamp	R&S	MDS-21	100668	2017.10.19	2018.10.18





## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

## 3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Clas	ss A	Class B		
	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	



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#### 3.1.2 TEST PROCEDURE

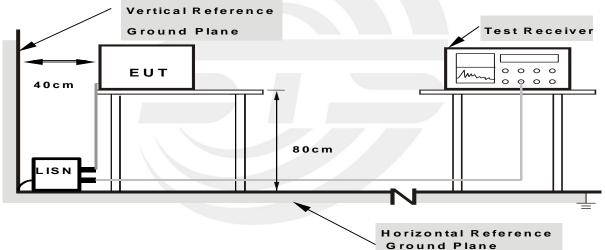
- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP

Vertical Reference
Ground Plane



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

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

#### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





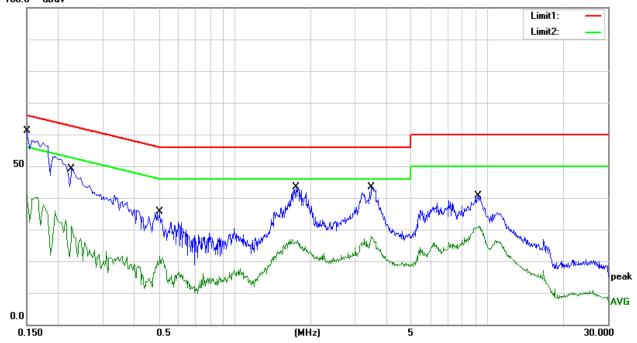
## 3.1.6 TEST RESULTS

Temperature:	23.5 ℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage: AC 120V/60Hz			

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	51.29	9.75	61.04	66.00	-4.96	QP
2	0.1500	31.30	9.75	41.05	56.00	-14.95	AVG
3	0.2260	39.22	9.97	49.19	62.60	-13.41	QP
4	0.2260	21.26	9.97	31.23	52.60	-21.37	AVG
5	0.5060	25.71	9.98	35.69	56.00	-20.31	QP
6	0.5060	9.29	9.98	19.27	46.00	-26.73	AVG
7	1.7460	33.60	9.85	43.45	56.00	-12.55	QP
8	1.7460	16.06	9.85	25.91	46.00	-20.09	AVG
9	3.4860	33.35	9.92	43.27	56.00	-12.73	QP
10	3.4860	18.07	9.92	27.99	46.00	-18.01	AVG
11	9.2300	30.81	9.92	40.73	60.00	-19.27	QP
12	9.2300	20.85	9.92	30.77	50.00	-19.23	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain





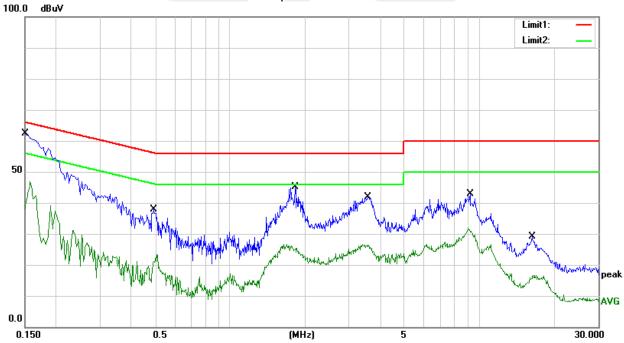
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Temperature:	23.5℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	52.58	9.75	62.33	66.00	-3.67	QP
2	0.1500	28.43	9.75	38.18	56.00	-17.82	AVG
3	0.4940	27.96	9.98	37.94	56.10	-18.16	QP
4	0.4940	10.93	9.98	20.91	46.10	-25.19	AVG
5	1.8220	35.32	9.86	45.18	56.00	-10.82	QP
6	1.8220	15.32	9.86	25.18	46.00	-20.82	AVG
7	3.5740	32.04	9.93	41.97	56.00	-14.03	QP
8	3.5740	16.40	9.93	26.33	46.00	-19.67	AVG
9	9.1980	33.04	9.92	42.96	60.00	-17.04	QP
10	9.1980	20.98	9.92	30.90	50.00	-19.10	AVG
11	16.2540	19.03	10.17	29.20	60.00	-30.80	QP
12	16.2540	6.55	10.17	16.72	50.00	-33.28	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Note: The test voltage is 100-240V, both of which have assessment tests, and the worst test data is in the report.



## 3.2 RADIATED EMISSION MEASUREMENT

## 3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (d	BuV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCT (IVII12)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

#### Note:

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

## FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Range (MHz)
or on which the device operates or tunes	ixarige (ivii iz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz,
7.55VC 1000	whichever is lower



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Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	5th harmonic (Peak/AV)		
DD / \/D (amission in restricted hand)	30MHz to 1000MHz: 100 KHz / 300 KHz		
RB / VB (emission in restricted band)	Above 1000MHz: 1 MHz / 3 MHz		

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz		
	Above 1000MHz: 1 MHz / 3 MHz		

#### 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

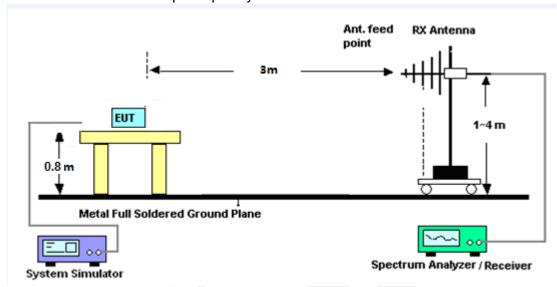
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

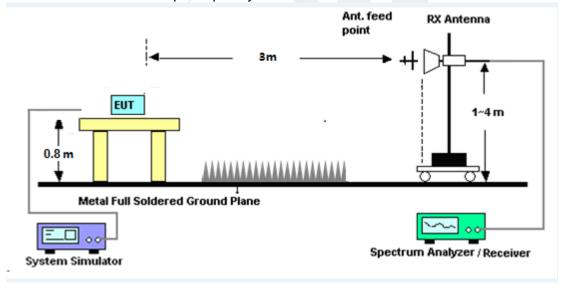


#### 3.2.4 TEST SETUP

## (A) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



## 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



## 3.2.6 TEST RESULTS

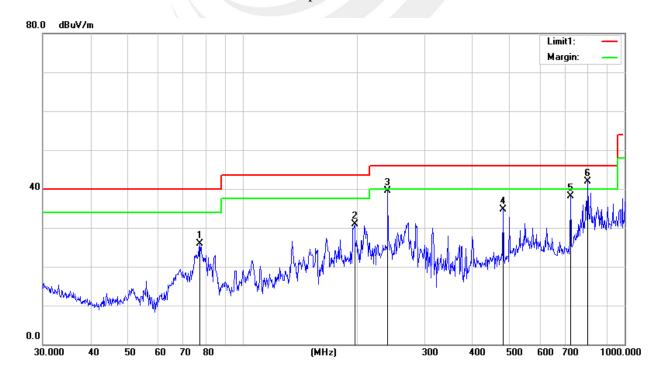
## 30MHz -1000MHz

Temperature:	24.6 ℃	Relative Humidity:	58%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	77.3212	48.92	-23.07	25.85	40.00	-14.15	QP
2	196.5098	51.11	-20.20	30.91	43.50	-12.59	QP
3	239.9873	57.30	-17.76	39.54	46.00	-6.46	QP
4	480.5276	44.03	-9.38	34.65	46.00	-11.35	QP
5	721.7260	42.59	-4.54	38.05	46.00	-7.95	QP
6	801.7862	45.41	-3.49	41.92	46.00	-4.08	QP

## Remark:

- 1. Margin = Result (Result = Reading + Factor )—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain





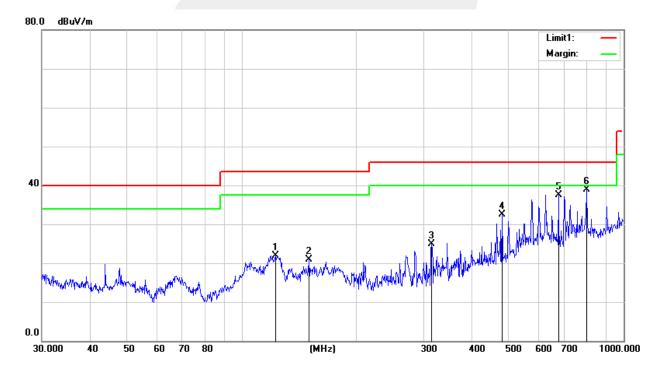
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Temperature:	<b>24.6</b> ℃	Relative Humidity:	58%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	122.8340	39.62	-17.65	21.97	43.50	-21.53	QP
2	150.0107	38.91	-17.97	20.94	43.50	-22.56	QP
3	314.3765	39.27	-14.35	24.92	46.00	-21.08	QP
4	480.5276	41.84	-9.38	32.46	46.00	-13.54	QP
5	675.2080	43.45	-5.87	37.58	46.00	-8.42	QP
6	798.9796	42.38	-3.45	38.93	46.00	-7.07	QP

## Remark:

- 1. Margin = Result (Result = Reading + Factor )—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain



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# (1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Phase:	Vertical/Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

## PΚ

1 11									
Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna	Orrected	Actual Fs	Peak	Peak
					Factor	Factor			
(MHz)	H/V	Reading	(dB) (dB)	(dB)	(dB/m)	(dB)	Peak	Limit	margin
(1711 12)	1 1/ V	(dBuV)	(ub)	(ub)	(UD/III)	(db)	(dBuV/m)	(dBuV/m)	(dB)
2451.26	Н	67.46	43.81	4.36	25.93	-12.54	53.94	74.00	-20.06
2746.68	Н	56.32	44.47	6.32	27.64	-10.81	45.81	74.00	-28.19
3412.69	Н	66.38	44.78	6.71	28.22	-9.82	56.53	74.00	-17.47
4523.74	Н	54.13	44.35	8.42	30.44	-5.48	48.64	74.00	-25.36
							\		
2365.64	V	65.23	43.81	4.36	25.95	-12.54	51.73	74.00	-22.27
2546.69	٧	55.69	44.47	6.32	27.69	-10.83	45.23	74.00	-28.77
3523.59	٧	64.13	44.78	6.71	28.26	-9.85	54.32	74.00	-19.68
4569.78	٧	53.45	44.35	8.42	30.45	-5.48	47.97	74.00	-26.03
5521.89	V	46.38	44.21	9.35	32.23	-2.59	43.75	74.00	-30.25

# AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor		AV	AV
(N.41.1-)	1107	Reading	(4D)	( 40 )	( alD /an )	( dD )	AV	Limit	margin
(MHz)	H/V	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2451.26	Н	57.43	43.81	4.36	25.93	-12.54	43.91	54.00	-10.09
2746.68	Н	46.39	44.47	6.32	27.64	-10.81	35.88	54.00	-18.12
3412.69	Н	55.34	44.78	6.71	28.22	-9.82	45.49	54.00	-8.51
4523.74	Н	45.46	44.35	8.42	30.44	-5.48	39.97	54.00	-14.03
2365.64	V	55.64	43.81	4.36	25.95	-12.54	42.14	54.00	-11.86
2546.69	٧	44.59	44.47	6.32	27.69	-10.83	34.13	54.00	-19.87
3523.59	V	56.24	44.78	6.71	28.26	-9.85	46.43	54.00	-7.57
4569.78	V	45.33	44.35	8.42	30.45	-5.48	39.85	54.00	-14.15
5521.89	V	37.39	44.21	9.35	32.23	-2.59	34.76	54.00	-19.24





#### Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 3. The frequency that above  $5.5 \mbox{GHz}$  is mainly from the environment noise.

\* \* \* \* \* END OF THE REPORT \* \* \* \*

