



# **FCC Part 15B TEST REPORT**

Report No.: STS1906249E01

Issued for

**ITALCOM GROUP** 

1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code: 518048)

Product Name:	4G LTE
Brand Name:	NYX Mobile
Model Name:	PIN
Series Model:	N/A
FCC ID:	YPVITALCOMPIN
Test Standard:	FCC 47 CFR Part 15: Subpart B

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**TEST RESULT CERTIFICATION** Applicant's Name ...... ITALCOM GROUP 1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code: 518048) Manufacture's Name ...... Shenzhen Tianruixiang Communication Equipment LIMITED Rm810, Block E, Taojindi Building, Tenglong Road, Longhua Address ....: District, Shenzhen, China Product Description .....: Product Name ...... 4G LTE Brand Name ...... NYX Mobile Model Name ...... PIN Series Model ..... N/A Standards..... FCC 47 CFR Part 15: Subpart B 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. This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document. Date of Test .....: Date of Performance of Tests..... 02 July. 2019~04 July. 2019 04 July. 2019 Date of Issue ..... Test Result..... Pass Compiled by (Mickey Deng)

**Technical Manager** 

(Chopin Xiao)

Authorized Signatory:

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# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	04 July. 2019	STS1906249E01	ALL	Initial Issue







#### 1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFD Dort 15 Subport D	Conducted Emission	PASS	Meet Class B limit
FCC 47 CFR Part 15 Subpart 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
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Registration No.:	FCC test Firm Registration Number: 625569
	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 approximately95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±3.18dB
2	Conducted Emission (150KHz-30MHz)	±2.70dB
3	All emissions,radiated(<1G) 9KHz-30MHz	±2.50dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.43dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.57dB
6	All emissions,radiated(>1G)	±4.13dB





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	4G LTE	4G LTE		
Brand Name	NYX Mobile	NYX Mobile		
Model Name	PIN	PIN		
Series Model	N/A			
Product Differences	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 4: 1710.7~1754.3MHz		
	WLAN	802.11b/g/n(HT20):2412~2462MHz		
	Bluetooth	2402~2480MHz		
	GPS	1575.42MHz		
	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE		
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK		
	LTE	QPSK/16QAM;		
		802.11b(DSSS):CCK,DQPSK,DBPSK		
Madulatian Mada	WLAN	802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM		
Modulation Mode		802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM		
		BT(1Mbps): GFSK		
	Bluetooth	BT EDR(2Mbps): π/4-DQPSK		
		BT EDR(3Mbps): 8DPSK		
	BLE	GFSK		
	GPS	BPSK		
Adapter	Input: AC100-240V, 0.15A,50-60Hz			
Auaptei	Output: DC5V, 500mA			
	Rated Volta			
Battery	Charge Limit: 4.2V			
	Capacity: 1400mAh			



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Hardware Version Number	NYX_PIN_001
Software Version Number	PIN_AMXNYX_V001R

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





#### 2.2 DESCRIPTION OF THE 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

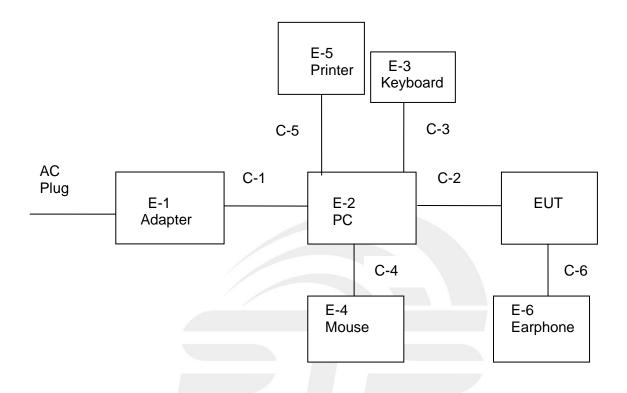
For Radiated Test	
Final Test Mode	Description
Mode 1	USB port communication with PC

#### 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 THE SYSTEM TESTED





#### 2.4 DESCRIPTION OF THE 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.

Accessories equipment

7.0000001100 0 Gui, F.110110				
	Item	Equipment	Mfr/Brand	Model/Type No.
	E-6	Earphone	NYX Mobile	PIN

Auxiliary equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-1	Adapter	HP	HSTNN-CA15
E-2	PC	HP	500-320cx
E-3	Keyboard	HP	PR1101U
E-4	Mouse	MOTOSPEED	F66
E-5	Printer	HP	HP1020

#### Cable

Item	Type	Shielded Type	Ferrite Core	Length
C-1	N/A	Shielded	NO	150cm
C-2	USB Cable (FTP)	Shielded	NO	100cm
C-3	USB Cable (FTP)	Shielded	NO	180cm
C-4	USB Cable (FTP)	Shielded	NO	180cm
C-5	USB Cable (FTP)	Shielded	NO	120cm
C-6	N/A	Unshielded	NO	110cm

### 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	2018.10.13	2019.10.12	
Bi-log Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01	
Horn Antenna	SCHWARZB ECK	BBHA 9120D	9120D-1343	2018.10.19	2021.10.18	
Pre-amplifier(1G-18 G)	SKET	LNPA-01018G- 45	SK2018080901	2018.10.13	2019.10.12	
Pre-amplifier(0.1M-3 GHz)	EM	EM330	060665	2018.10.13	2019.10.12	
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12	
RE Cable (9K-1G)	N/A	R01	N/A	2018.10.13	2019.10.12	
RE Cable (1G-18G)	N/A	R02	N/A	2018.10.13	2019.10.12	
Temperature & Humidity	Mieo	HH660	N/A	2018.10.11	2019.10.10	
Horn Antenna(18-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10	
Testing Software						

# Conduction Test equipment

	' '				
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	ETS	3810/2NM	00023625	2018.10.11	2019.10.10
Absorbing Clamp	R&S	MDS-21	100668	2018.10.17	2019.10.16
CE Cable	N/A	C01	N/A	2018.10.13	2019.10.12
Temperature & Humidity	Mieo	HH660	N/A	2018.10.11	2019.10.10
Testing Software EZ-EMC(Ver.STSLAB-03A1 CE)					



#### 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	

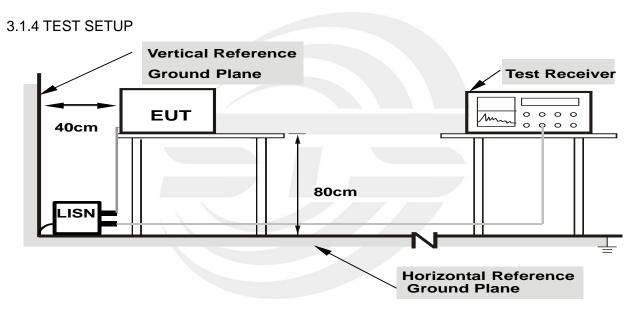


#### 3.1.2 TEST PROCEDURE

- 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 equipment 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. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation



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.

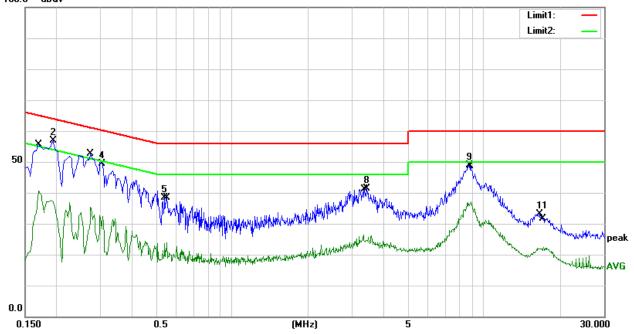


#### 3.1.6 TEST RESULTS

Temperature:	25.3 ℃	Relative Humidity:	62%
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	0.1700	20.34	20.24	40.58	54.96	-14.38	QP
2	0.1940	36.47	20.31	56.78	63.86	-7.08	AVG
3	0.2740	14.80	20.65	35.45	51.00	-15.55	QP
4	0.3034	28.58	20.75	49.33	60.15	-10.82	AVG
5	0.5380	18.04	20.40	38.44	56.00	-17.56	QP
6	0.5500	3.43	20.39	23.82	46.00	-22.18	AVG
7	3.3180	6.25	20.07	26.32	46.00	-19.68	QP
8	3.4260	21.27	20.07	41.34	56.00	-14.66	AVG
9	8.7620	29.03	19.88	48.91	60.00	-11.09	QP
10	8.9060	17.28	19.88	37.16	50.00	-12.84	AVG
11	16.6180	13.37	19.87	33.24	60.00	-26.76	QP
12	17.2500	2.44	19.88	22.32	50.00	-27.68	AVG

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





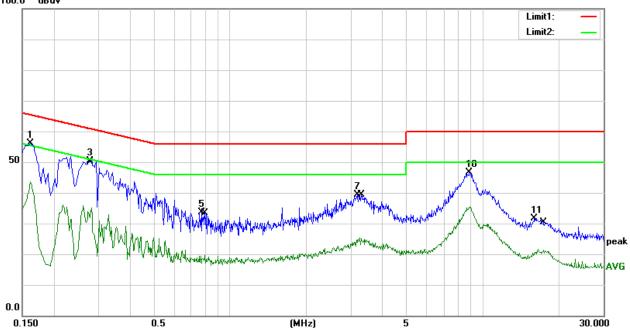
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Temperature:	25.3 ℃	Relative Humidity:	62%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	35.82	20.22	56.04	65.36	-9.32	QP
2	0.1620	23.33	20.22	43.55	55.36	-11.81	AVG
3	0.2780	29.67	20.66	50.33	60.88	-10.55	QP
4	0.2820	14.52	20.68	35.20	50.76	-15.56	AVG
5	0.7740	13.26	20.25	33.51	56.00	-22.49	QP
6	0.7940	-0.64	20.24	19.60	46.00	-26.40	AVG
7	3.1740	19.42	20.08	39.50	56.00	-16.50	QP
8	3.2700	5.21	20.08	25.29	46.00	-20.71	AVG
9	8.8060	15.53	19.88	35.41	50.00	-14.59	QP
10	8.8460	26.68	19.88	46.56	60.00	-13.44	AVG
11	15.9780	11.81	19.85	31.66	60.00	-28.34	QP
12	17.4140	1.45	19.88	21.33	50.00	-28.67	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 100.0 dBuV



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 THE RADIATED EMISSION MEASUREMENT

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

#### Note:

- (1) The limit for radiated test was performed in the following: 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 THE 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	range (Minz)
(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, 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)		
RB / VB (emission in restricted	30MHz to 1000MHz: 100 KHz / 300 KHz		
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 EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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 is varied from 1 meter to 4 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- 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

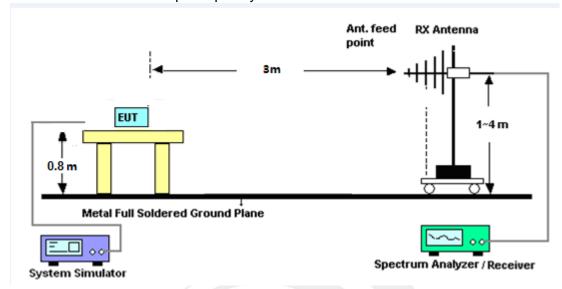
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

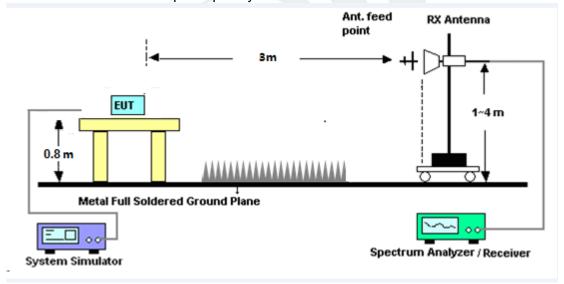


#### 3.2.4 TEST SETUP

# (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 following during the testing.





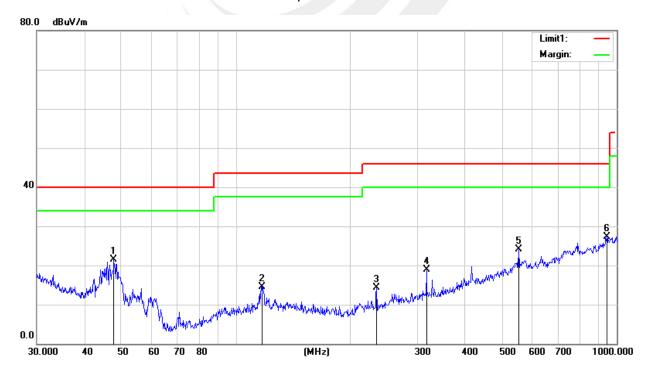
#### 3.2.6 TEST RESULTS

#### 30MHz -1000MHz

Temperature:	25.5 ℃	Relative Humidity:	59%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.8260	40.95	-19.46	21.49	40.00	-18.51	QP
2	116.9495	31.63	-17.03	14.60	43.50	-28.90	QP
3	234.1684	31.96	-17.72	14.24	46.00	-31.76	QP
4	316.5890	32.19	-13.24	18.95	46.00	-27.05	QP
5	552.8832	30.41	-6.30	24.11	46.00	-21.89	QP
6	942.1305	27.40	-0.06	27.34	46.00	-18.66	QP

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



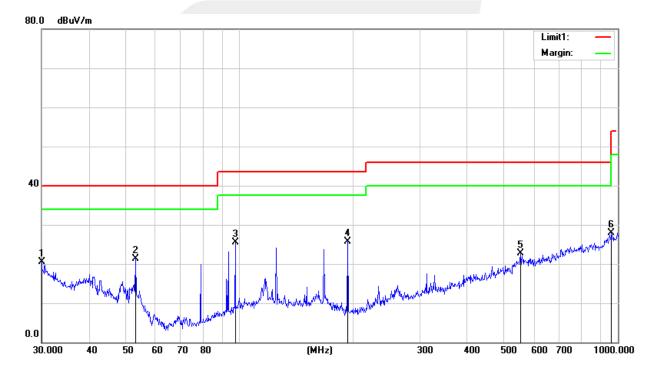


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Temperature:	25.5 ℃	Relative Humidity:	59%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	31.73	-11.19	20.54	40.00	-19.46	QP
2	53.1313	43.71	-22.38	21.33	40.00	-18.67	QP
3	97.4560	44.93	-19.44	25.49	43.50	-18.01	QP
4	193.0945	46.01	-20.22	25.79	43.50	-17.71	QP
5	552.8832	29.34	-6.71	22.63	46.00	-23.37	QP
6	962.1623	28.08	-0.12	27.96	54.00	-26.04	QP

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





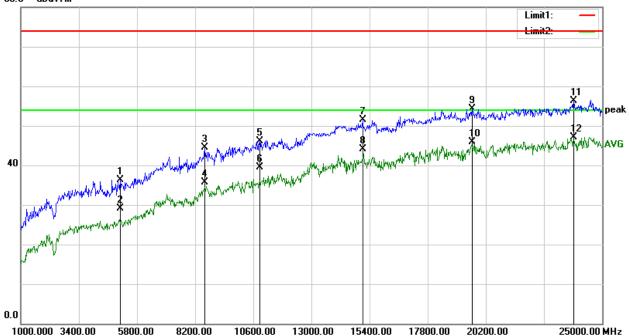


# (1 GHz to 25GHz.)

Temperature:	<b>22.4</b> ℃	Relative Humidity:	68%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	5104.000	31.72	4.59	36.31	74.00	-37.69	Peak
2	5104.000	24.51	4.59	29.10	54.00	-24.90	AVG
3	8584.000	32.79	11.78	44.57	74.00	-29.43	Peak
4	8584.000	23.91	11.78	35.69	54.00	-18.31	AVG
5	10864.000	30.61	15.47	46.08	74.00	-27.92	Peak
6	10864.000	24.12	15.47	39.59	54.00	-14.41	AVG
7	15112.000	11.73	39.85	51.58	74.00	-22.42	Peak
8	15112.000	4.20	39.85	44.05	54.00	-9.95	AVG
9	19624.000	54.34	0.00	54.34	74.00	-19.66	Peak
10	19624.000	45.90	0.00	45.90	54.00	-8.10	AVG
11	23824.000	56.28	0.00	56.28	74.00	-17.72	Peak
12	23824.000	47.09	0.00	47.09	54.00	-6.91	AVG

- 1. All readings are Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain 80.0 dBuV/m





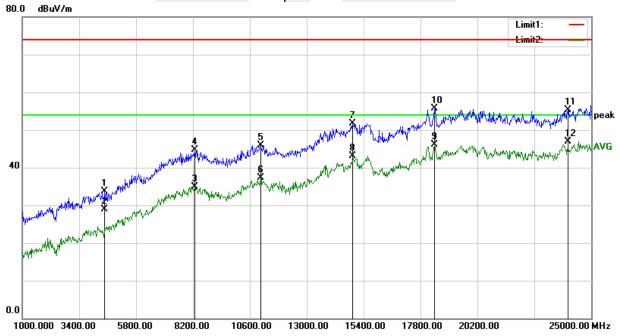
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Temperature:	<b>22.4</b> ℃	Relative Humidity:	68%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	4480.000	31.38	2.40	33.78	74.00	-40.22	Peak
2	4480.000	26.46	2.40	28.86	54.00	-25.14	AVG
3	8272.000	23.77	11.19	34.96	54.00	-19.04	Peak
4	8272.000	33.47	11.19	44.66	74.00	-29.34	AVG
5	11056.000	6.42	39.45	45.87	74.00	-28.13	Peak
6	11056.000	-2.23	39.45	37.22	54.00	-16.78	AVG
7	14920.000	11.40	40.30	51.70	74.00	-22.30	Peak
8	14920.000	2.85	40.30	43.15	54.00	-10.85	AVG
9	18376.000	46.09	0.00	46.09	54.00	-7.91	Peak
10	18376.000	55.77	0.00	55.77	74.00	-18.23	AVG
11	24016.000	55.32	0.00	55.32	74.00	-18.68	Peak
12	24016.000	46.83	0.00	46.83	54.00	-7.17	AVG

#### Remark:

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



# 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.

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