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FCC Part 15B TEST REPORT

Report No: STS1805028E01

Issued for

GSM GLOBE.COM INC

134 N.E 1 Street, Miami, Florida, United States, 33132

Product Name:	Tablet PC
Brand Name:	GOL
Model Name:	TEAM 7.0 WIFI
Series Model:	TEAM 7.0
FCC ID:	2AEJATEAM7W
Test Standard:	FCC Part 15B

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**TEST RESULT CERTIFICATION****Applicant's name**.....: GSM GLOBE.COM INC

Address.....: 134 N.E 1 Street, Miami, Florida, United States, 33132

Manufacture's Name: Shenzhen HLS Technology Corporation Limited.Address.....: 4F, B4 Building, 3rd Industrial Zone, Fenghuang Gang, Xixiang,
Bao'an District, Shenzhen, China 518102**Product description**

Product name.....: Tablet PC

Brand name.....: GOL

Model Name: TEAM 7.0 WIFI

Series Model: TEAM 7.0

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 03 May. 2018~07 May. 2018

Date of Issue 08 May. 2018

Test Result **Pass**

Testing Engineer :

(Kyle Rao)

Technical Manager :

(Chopin Xiao)

Authorized Signatory :

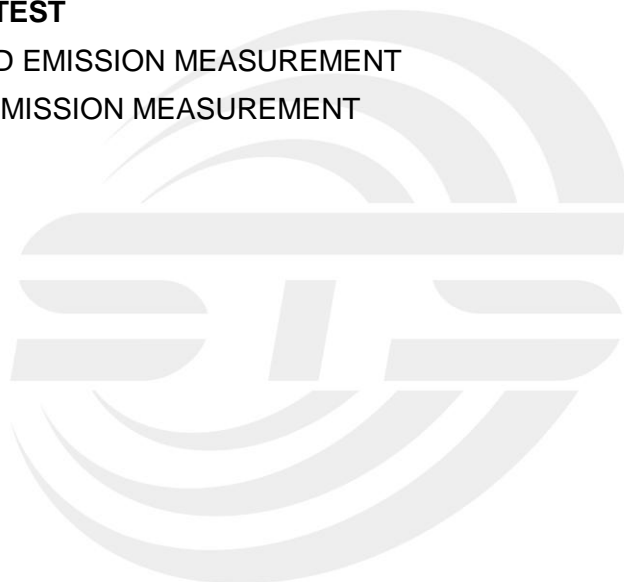
(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	08 May. 2018	STS1805028E01	ALL	Initial Issue





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
	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.:	CNAS Registration No.: L7649; FCC Registration No.: 625569
	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

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 %.

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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Tablet PC	
Brand Name	GOL	
Model Name	TEAM 7.0 WIFI	
Series Model	TEAM 7.0	
Model Difference	Only different in model name	
Frequency Bands	WLAN	802.11b/g/n(HT20/40):2412~2462MHz
	Bluetooth	2402~2480MHz
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): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
	BLE	GFSK
Adapter	Input: AC110-240V, 300mA, 50/60Hz Output: DC 5V, 1500mA	
Battery	Rated Voltage: 3.7V Capacity: 2500mAh Charge Limit: 4.2V	
Hardware version number	BND-RK3126-D86-BT A1.0	
Software version number	N/A	

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 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 port communication with PC

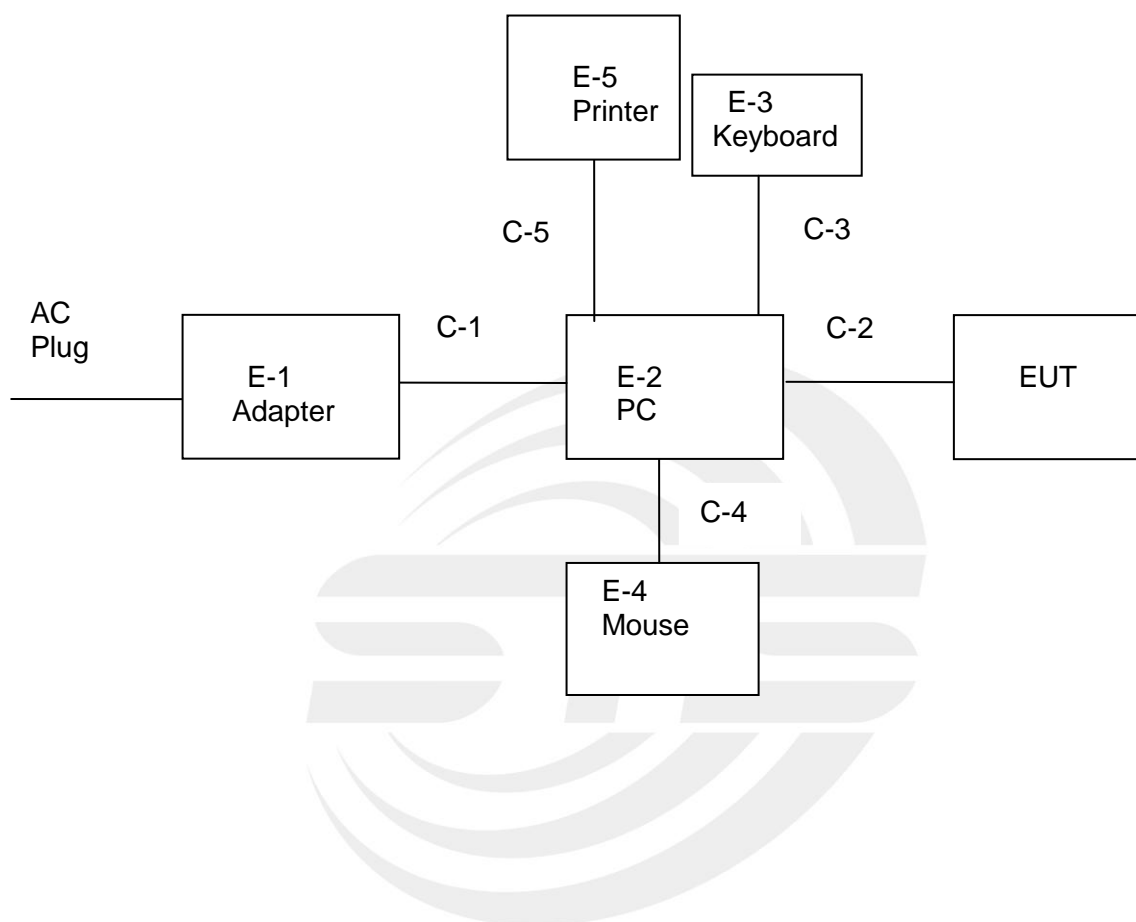
For Conducted Test	
Final Test Mode	Description
Mode 1	USB port communication with PC

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

NOTE:

1. The test modes were carried out for all operation modes. Only worst case will be shown in this report.
2. We have been tested for all available U.S. voltage and frequencies (For 120Vac, 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	HP	HSTNN-CA15
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	72cm
C-2	USB Cable (FTP)	NO	80cm
C-3	USB Cable (FTP)	NO	84cm
C-4	USB Cable (FTP)	NO	89cm
C-5	USB Cable (FTP)	NO	96cm

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” 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	SCHWARZBECK	BBHA 9120D	1343	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	E4407B	MY50140340	2018.03.08	2019.03.07
Pre-mpplier(1G-18 G)	Agilent	8449B	60538	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.03.08	2019.03.07
Pre-mpplier(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

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	Class 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

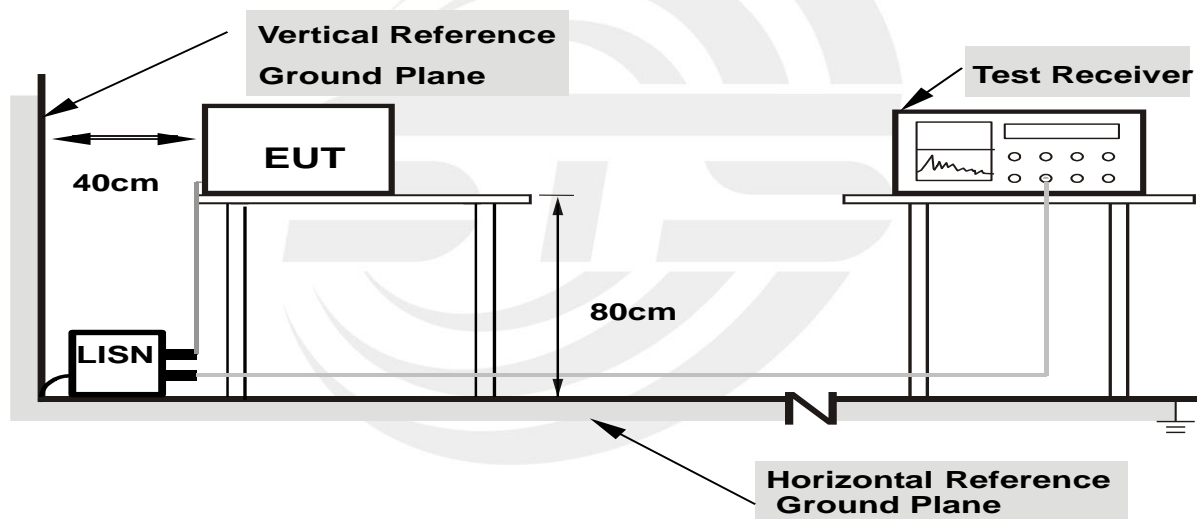
3.1.2 TEST PROCEDURE

- 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.
- 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 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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 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

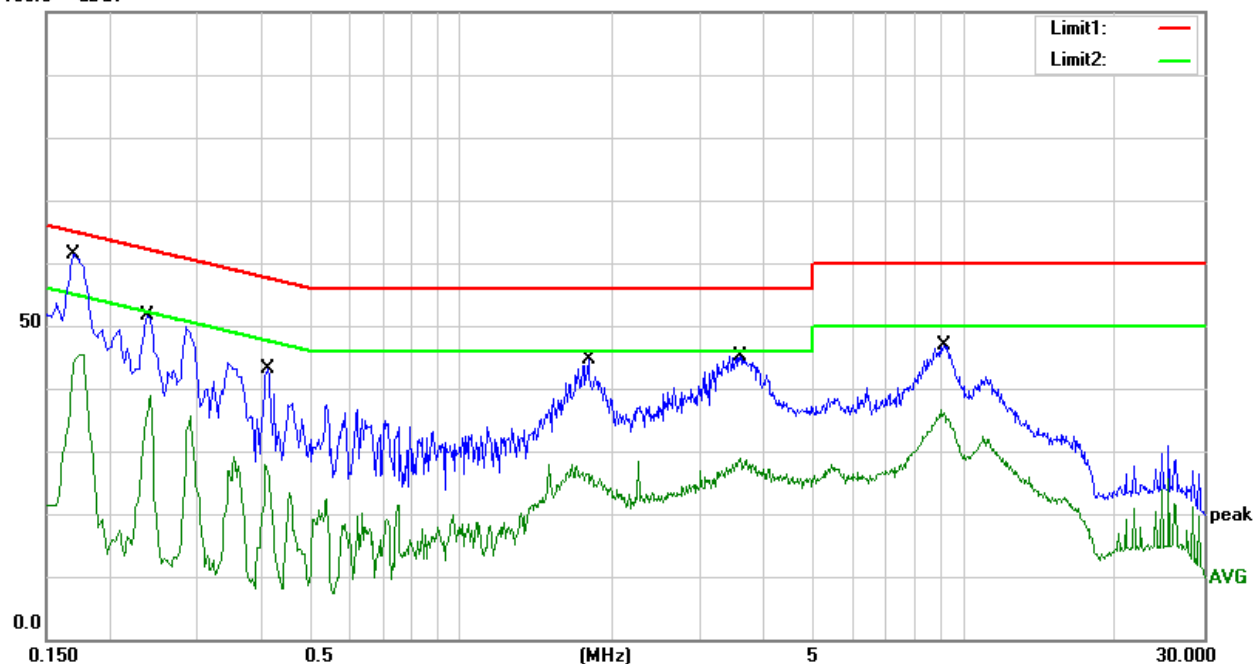
Temperature:	24°C	Relative Humidity:	60%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.1700	51.68	9.79	61.47	64.96	-3.49	QP
2	0.1700	34.37	9.79	44.16	54.96	-10.80	AVG
3	0.2380	41.68	9.95	51.63	62.17	-10.54	QP
4	0.2380	27.83	9.95	37.78	52.17	-14.39	AVG
5	0.4140	32.99	10.03	43.02	57.57	-14.55	QP
6	0.4140	16.53	10.03	26.56	47.57	-21.01	AVG
7	1.7980	34.88	9.78	44.66	56.00	-11.34	QP
8	1.7980	16.36	9.78	26.14	46.00	-19.86	AVG
9	3.5980	35.42	9.82	45.24	56.00	-10.76	QP
10	3.5980	19.08	9.82	28.90	46.00	-17.10	AVG
11	9.1460	36.76	10.11	46.87	60.00	-13.13	QP
12	9.1460	25.91	10.11	36.02	50.00	-13.98	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





Temperature:	24 °C	Relative Humidity:	60%
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	0.1700	51.74	9.79	61.53	64.96	-3.43	QP
2	0.1700	38.44	9.79	48.23	54.96	-6.73	AVG
3	0.2420	41.86	9.97	51.83	62.03	-10.20	QP
4	0.2420	23.24	9.97	33.21	52.03	-18.82	AVG
5	0.5100	29.16	10.02	39.18	56.00	-16.82	QP
6	0.5100	9.52	10.02	19.54	46.00	-26.46	AVG
7	1.7100	34.84	9.79	44.63	56.00	-11.37	QP
8	1.7100	16.90	9.79	26.69	46.00	-19.31	AVG
9	3.7340	35.17	9.82	44.99	56.00	-11.01	QP
10	3.7340	17.89	9.82	27.71	46.00	-18.29	AVG
11	9.1020	36.31	10.11	46.42	60.00	-13.58	QP
12	9.1020	24.15	10.11	34.26	50.00	-15.74	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 RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	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 or on which the device operates or tunes (MHz)	Range (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



Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	5th harmonic (Peak/AV)
RB / VB (emission in restricted band)	30MHz to 1000MHz: 100 KHz / 300 KHz 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

- 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 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 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 EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

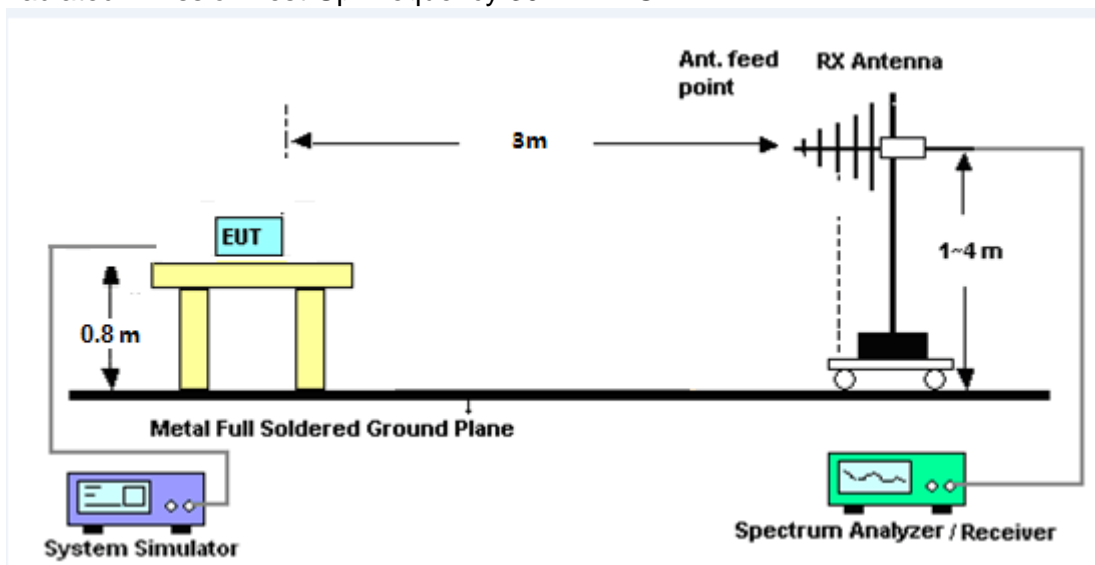
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

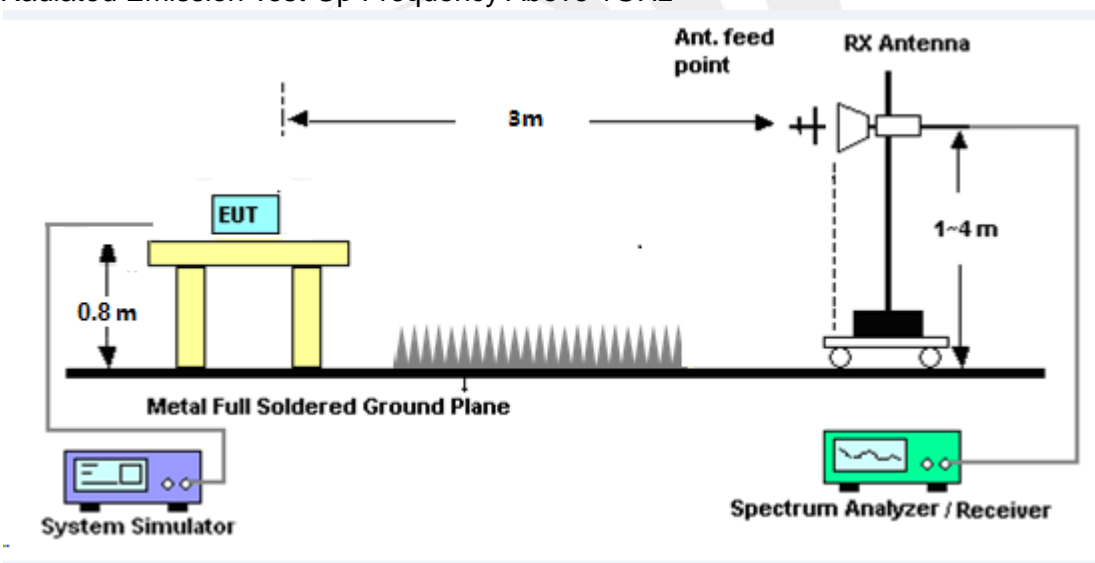
No deviation

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

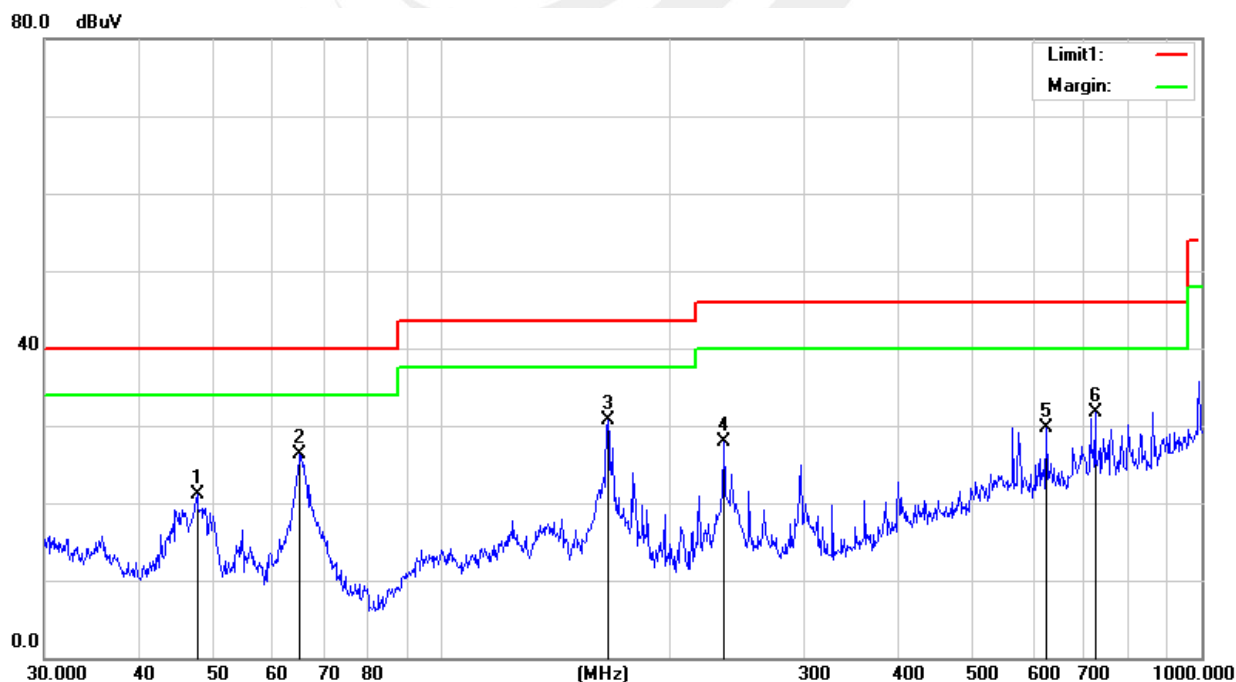
30MHz -1000MHz

Temperature:	25.6 °C	Relative Humidity:	67%
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	47.6584	41.31	-20.27	21.04	40.00	-18.96	QP
2	65.1145	50.51	-24.22	26.29	40.00	-13.71	QP
3	165.4866	49.61	-18.95	30.66	43.50	-12.84	QP
4	234.9910	46.01	-18.12	27.89	46.00	-18.11	QP
5	625.0780	36.15	-6.43	29.72	46.00	-16.28	QP
6	724.2611	36.17	-4.40	31.77	46.00	-14.23	QP

Remark:

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



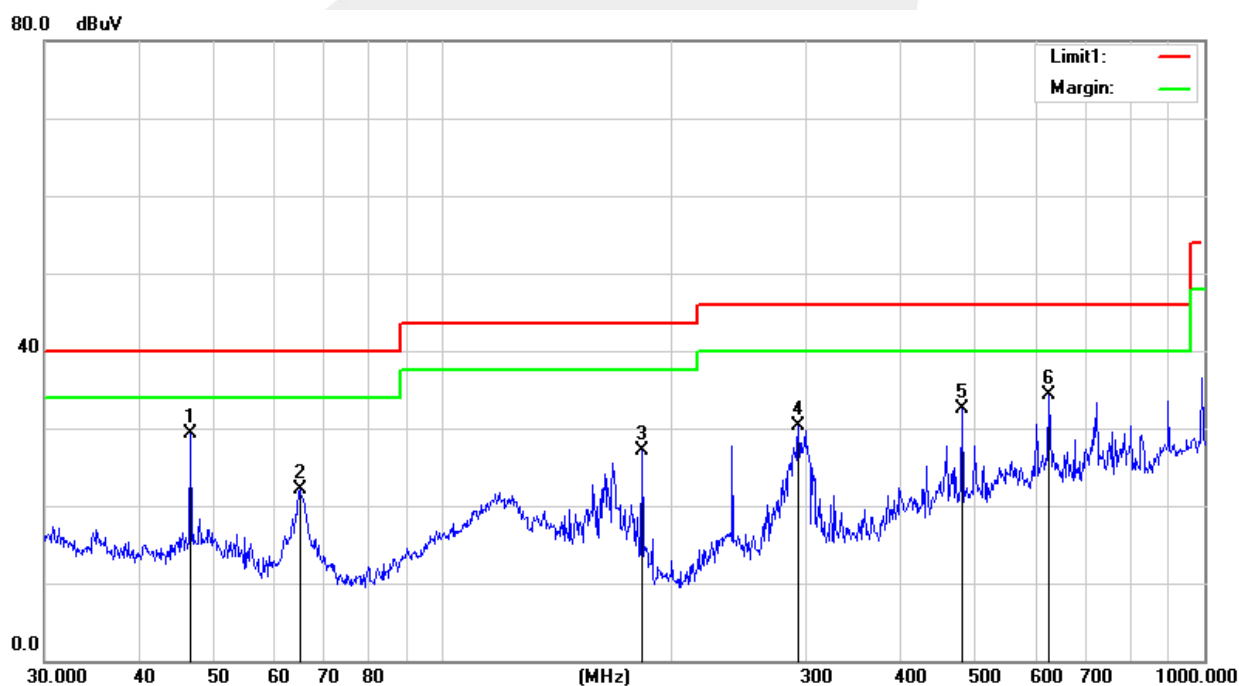


Temperature:	25.6 °C	Relative Humidity:	67%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.6664	49.16	-19.77	29.39	40.00	-10.61	QP
2	64.8864	46.31	-24.22	22.09	40.00	-17.91	QP
3	182.5592	46.73	-19.65	27.08	43.50	-16.42	QP
4	293.0842	45.64	-15.24	30.40	46.00	-15.60	QP
5	480.5276	41.91	-9.38	32.53	46.00	-13.47	QP
6	625.0780	40.72	-6.43	34.29	46.00	-11.71	QP

Remark:

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





(1 GHz to 25GHz.)

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

PK

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna Factor	Orrected Factor	Reading	Peak
(MHz)	H/V	Actual Fs (dBuV/m)	(dB)	(dB)	(dB/m)	(dB)	Peak (dBuV/m)	Limit (dBuV/m)
2546.35	H	52.35	43.80	5.40	25.90	-12.50	64.85	74.00
2423.31	H	43.64	44.40	6.00	27.60	-10.80	54.44	74.00
3415.64	H	51.58	44.70	6.70	28.20	-9.80	61.38	74.00
4532.65	H	40.28	44.30	8.42	30.40	-5.48	45.76	74.00
2546.35	V	55.29	43.80	5.40	25.90	-12.50	67.79	74.00
2423.31	V	44.26	44.40	6.00	27.60	-10.80	55.06	74.00
3415.64	V	53.65	44.70	6.70	28.20	-9.80	63.45	74.00
4532.65	V	42.59	44.30	8.42	30.40	-5.48	48.07	74.00
5625.37	V	39.30	44.20	9.70	32.00	-2.50	41.80	74.00

AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor	Reading	AV
(MHz)	H/V	Actual Fs (dBuV/m)	(dB)	(dB)	(dB/m)	(dB)	AV (dBuV/m)	Limit (dBuV/m)
2546.35	H	35.58	43.80	5.40	25.90	-12.50	48.08	54.00
2423.31	H	27.46	44.40	6.00	27.60	-10.80	38.26	54.00
3415.64	H	34.96	44.70	6.70	28.20	-9.80	44.76	54.00
4532.65	H	29.38	44.30	8.42	30.40	-5.48	34.86	54.00
2546.35	V	33.56	43.80	5.40	25.90	-12.50	46.06	54.00
2423.31	V	25.29	44.40	6.00	27.60	-10.80	36.09	54.00
3415.64	V	30.59	44.70	6.70	28.20	-9.80	40.39	54.00
4532.65	V	24.59	44.30	8.42	30.40	-5.48	30.07	54.00
5625.37	V	20.48	44.20	9.70	32.00	-2.50	22.98	54.00



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 5.6GHz is mainly from the environment noise.

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

