



FCC Part 15B TEST REPORT

Report No.: STS1909168E01

Issued for

Telo Systems Ltd.

Room 408,Chuangye Building,Seven-Star Park,Chuangye
2nd Road,Bao'an 28th District,Xin'an Bao'an District
Shenzhen, China

Product Name:	Smart Phone
Brand Name:	Telo Systems
Model Name:	TE610
Series Model:	N/A
FCC ID:	2ANY6-TE610
Test Standard:	FCC 47 CFR Part 15: Subpart B

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TEST RESULT CERTIFICATION

Applicant's Name: Telo Systems Ltd.
Address.....: Room 408,Chuangye Building,Seven-Star Park,Chuangye 2nd Road,Bao'an 28th District,Xin'an Bao'an District Shenzhen, China
Manufacture's Name: Telo Systems Ltd.
Address.....: Room 408,Chuangye Building,Seven-Star Park,Chuangye 2nd Road,Bao'an 28th District,Xin'an Bao'an District Shenzhen, China
Product Description:
Product Name: Smart Phone
Brand Name.....: Telo Systems
Model Name: TE610
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.

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Date of Test.....:
Date of Performance of Tests: 12 Sep. 2019~27 Sep. 2019
Date of Issue.....: 28 Sep. 2019
Test Result: Pass

Compiled by : Mickey Deng

(Mickey Deng)

Technical Manager : Chopin Xiao

(Chopin Xiao)

Authorized Signatory : Vita Li

(Vita Li)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	28 Sep. 2019	STS1909168E01	ALL	Initial Issue





1. SUMMARY OF THE 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:	A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 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)	± 4.13 dB
2	Conducted Emission (150KHz-30MHz)	± 4.74 dB
3	All emissions, radiated (<1G) 30MHz-1000MHz	± 5.20 dB
4	All emissions, radiated (>1G) 1GHz-6GHz	± 4.66 dB
5	All emissions, radiated (>1G) 6GHz-18GHz	± 5.31 dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Phone	
Brand Name	Telo Systems	
Model Name	TE610	
Series Model	N/A	
Product Differences	N/A	
Frequency Bands	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz
	WCDMA	Band II: 1852.4~1907.6MHz Band V: 826.4~846.6MHz
	LTE	Band 2: 1850.7~1909.3MHz Band 4: 1710.7~1754.3MHz Band 5: 824.7~848.3MHz Band 7: 2502.5~2567.5MHz Band 12: 699.7~715.3MHz Band 17: 706.5~713.5MHz
	WLAN	2.4GHz 802.11b/g/n(HT20):2412~2462MHz
		2.4GHz 802.11n(HT40):2422~2452MHz
		5GHz 802.11a/n (20MHz): 5180~5240MHz
		5GHz 802.11n (40MHz): 5190~5230MHz
		5GHz 802.11a/n (20MHz): 5745~5825MHz 5GHz 802.11n (40MHz): 5755~5795MHz
Bluetooth	2402~2480MHz	
GPS	1575.42MHz	
NFC	13.56MHz	
Modulation Mode	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	LTE	QPSK,16QAM
	WLAN	2.4GHz: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM



		802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5GHz: 802.11a(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
	GPS	BPSK
	NFC	ASK
Adapter	Input: AC 100~240V, 300mA,50/60Hz Output: DC 5V,2000mA	
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 5200mAh	
Hardware Version Number	LM182_V1.0	
Software Version Number	TE610_US_V1_20190802	

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

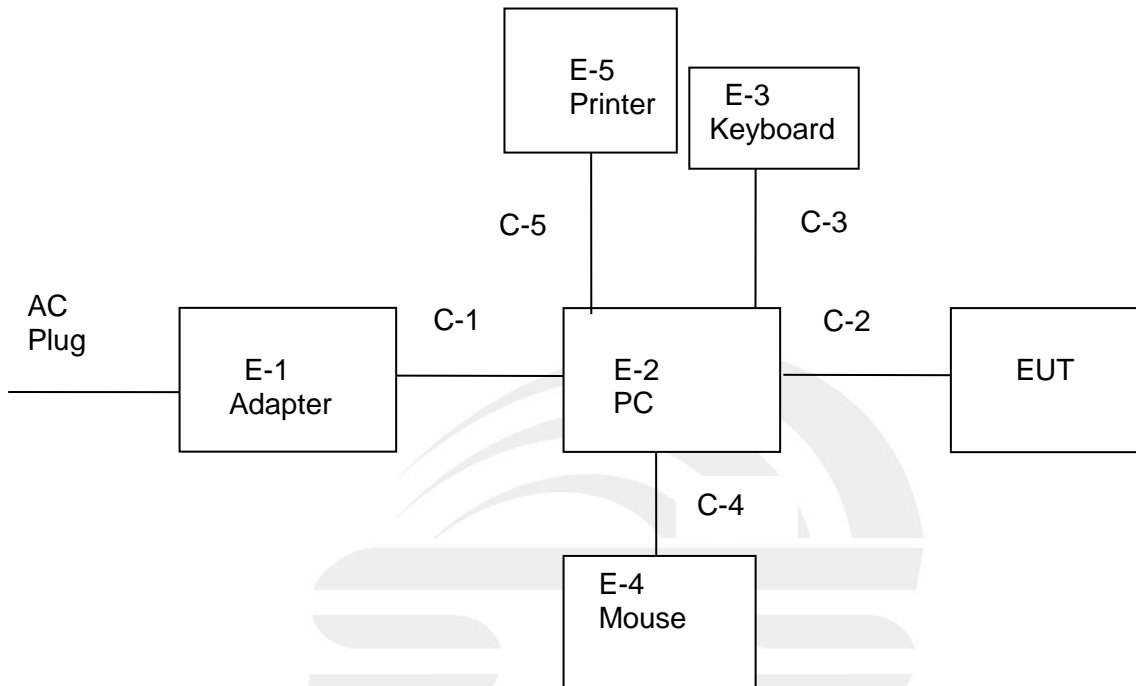
For Conducted Test	
Final Test Mode	Description
Mode 1	USB port communication with PC

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

NOTE:

1. 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

Item	Equipment	Mfr/Brand	Model/Type No.
N/A	N/A	N/A	N/A

Auxiliary equipment

Item	Equipment	Mfr/Brand	Model/Type No.
E-1	Adapter	HP	HSTNN-CA15
E-2	PC	DELL	VOSTRO.3800
E-3	Keyboard	DELL	SK-820
E-4	Mouse	DELL	MS111-L
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	80cm
C-3	USB Cable (FTP)	Shielded	NO	180cm
C-4	USB Cable (FTP)	Shielded	NO	180cm
C-5	USB Cable (FTP)	Shielded	NO	120cm

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	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	EZ-EMC(Ver.STSLAB-03A1 RE)				

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

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

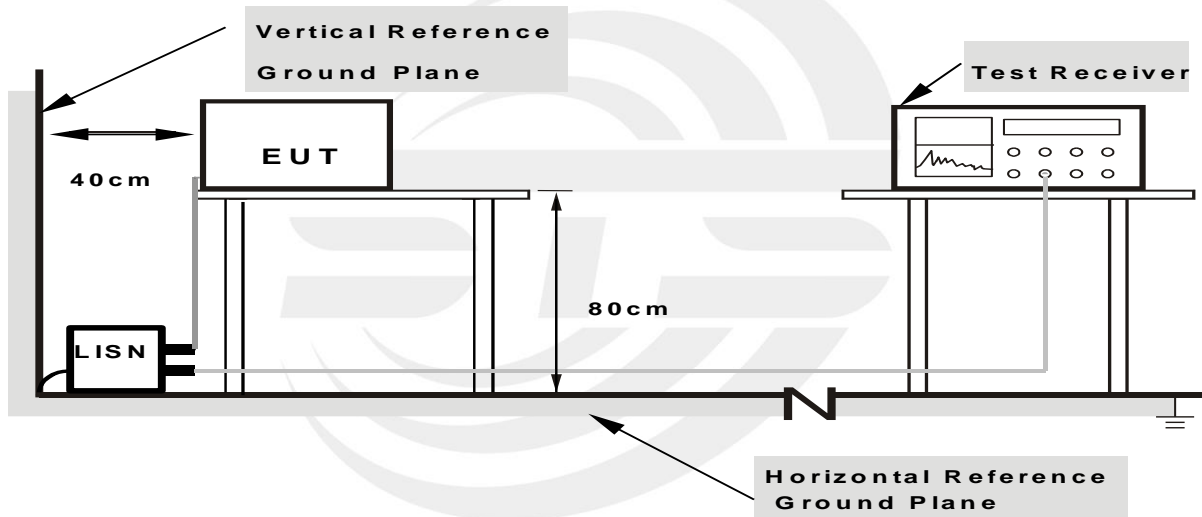
3.1.2 TEST PROCEDURE

- 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

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.



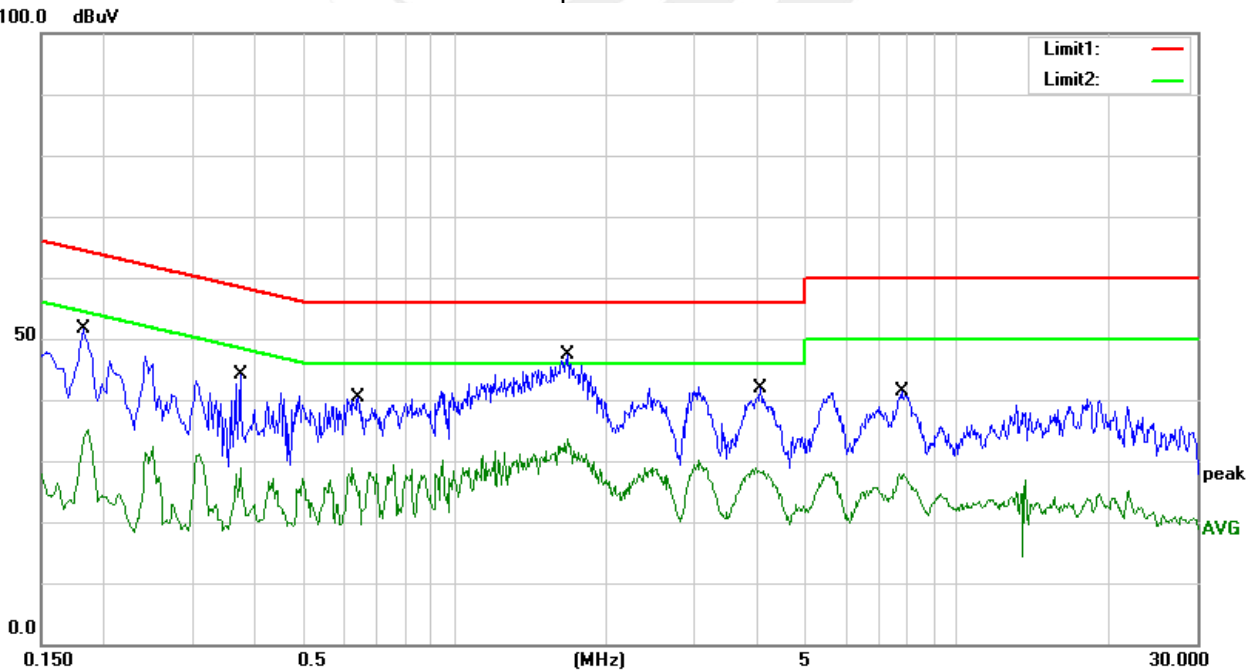
3.1.6 TEST RESULTS

Temperature:	24 °C	Relative Humidity:	59.8%
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	0.1820	31.12	20.54	51.66	64.39	-12.73	QP
2	0.1820	14.66	20.54	35.20	54.39	-19.19	AVG
3	0.3740	23.85	20.16	44.01	58.41	-14.40	QP
4	0.3740	8.69	20.16	28.85	48.41	-19.56	AVG
5	0.6420	20.30	20.12	40.42	56.00	-15.58	QP
6	0.6420	9.34	20.12	29.46	46.00	-16.54	AVG
7	1.6780	27.67	19.76	47.43	56.00	-8.57	QP
8	1.6780	13.96	19.76	33.72	46.00	-12.28	AVG
9	4.0700	21.63	20.30	41.93	56.00	-14.07	QP
10	4.0700	8.65	20.30	28.95	46.00	-17.05	AVG
11	7.7620	20.86	20.40	41.26	60.00	-18.74	QP
12	7.7620	7.60	20.40	28.00	50.00	-22.00	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



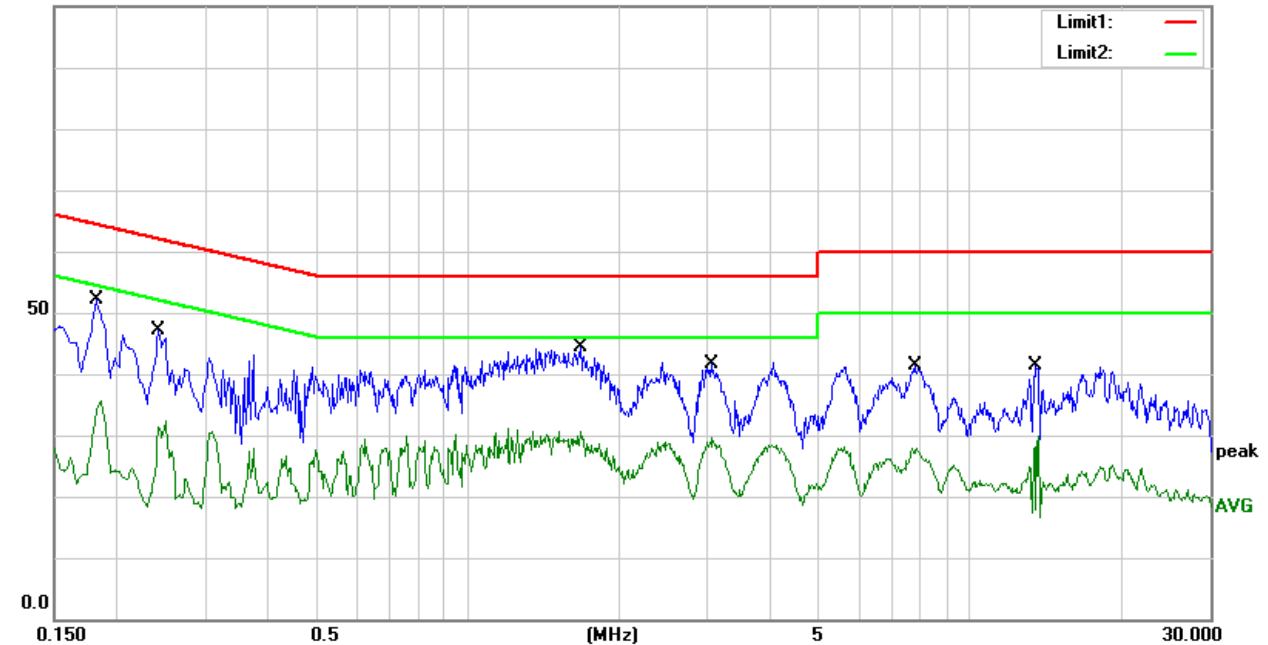


Temperature:	24°C	Relative Humidity:	59.8%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	31.62	20.54	52.16	64.39	-12.23	QP
2	0.1820	15.16	20.54	35.70	54.39	-18.69	AVG
3	0.2420	26.78	20.28	47.06	62.03	-14.97	QP
4	0.2420	12.08	20.28	32.36	52.03	-19.67	AVG
5	1.6780	24.67	19.76	44.43	56.00	-11.57	QP
6	1.6780	10.96	19.76	30.72	46.00	-15.28	AVG
7	3.0540	21.47	20.18	41.65	56.00	-14.35	QP
8	3.0540	9.45	20.18	29.63	46.00	-16.37	AVG
9	7.7620	20.86	20.40	41.26	60.00	-18.74	QP
10	7.7620	7.60	20.40	28.00	50.00	-22.00	AVG
11	13.5100	20.61	20.71	41.32	60.00	-18.68	QP
12	13.5100	9.27	20.71	29.98	50.00	-20.02	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

Class A: ITE that meets the conditions for Class A operation defined in Section 2.2 shall comply with the Class A radiated limits set out in Table 4 determined at a distance of 3 metres.

Class A Radiated Limits Below 1 GHz:

Frequencies (MHz)	Class A (dB μ V/m)
	Quasi-peak
30~88	49.5
88~216	53.9
216~960	56.9
960~1000	60

Class B: ITE that does not meet the conditions for Class A operation shall comply with the Class B radiated limits set out in Table 5 determined at a distance of 3 metres.

Class B Radiated Limits Below 1 GHz:

Frequencies (MHz)	Class B (dB μ V/m)
	Quasi-peak
30~88	40
88~216	43.5
216~960	46
960~1000	54

In case the emission 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 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 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 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

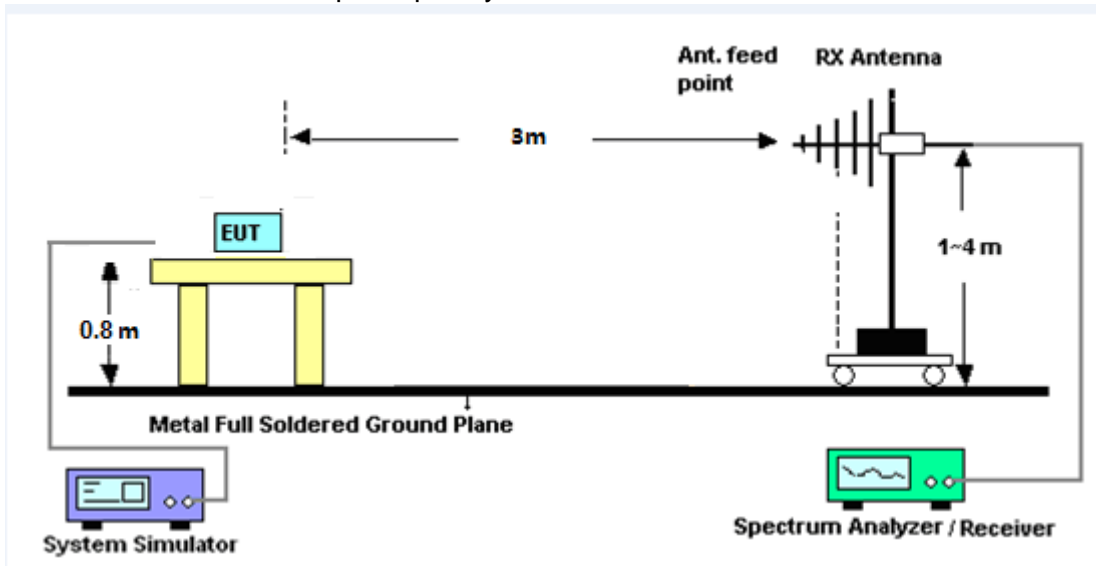
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

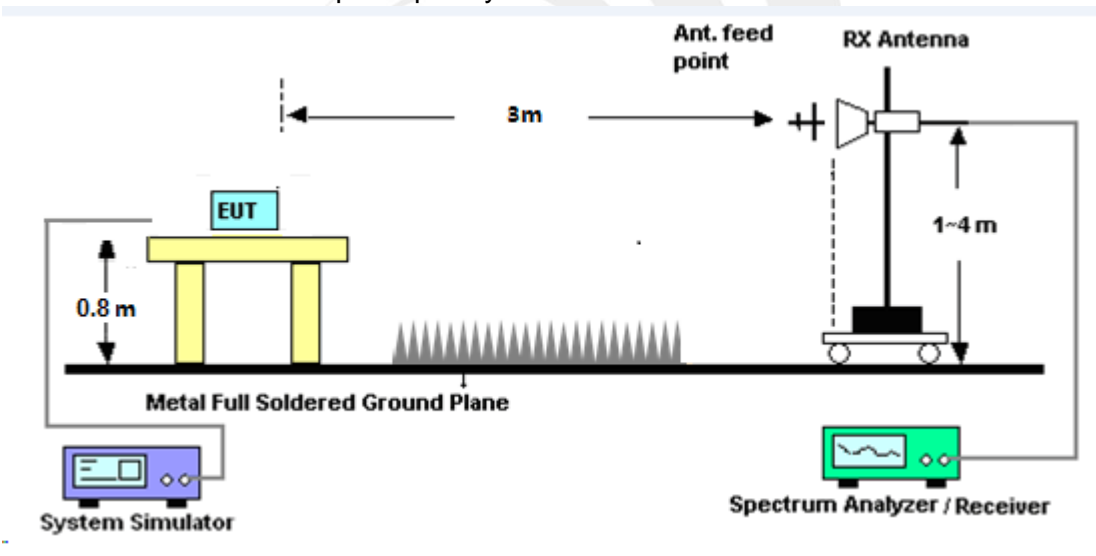
No deviation

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

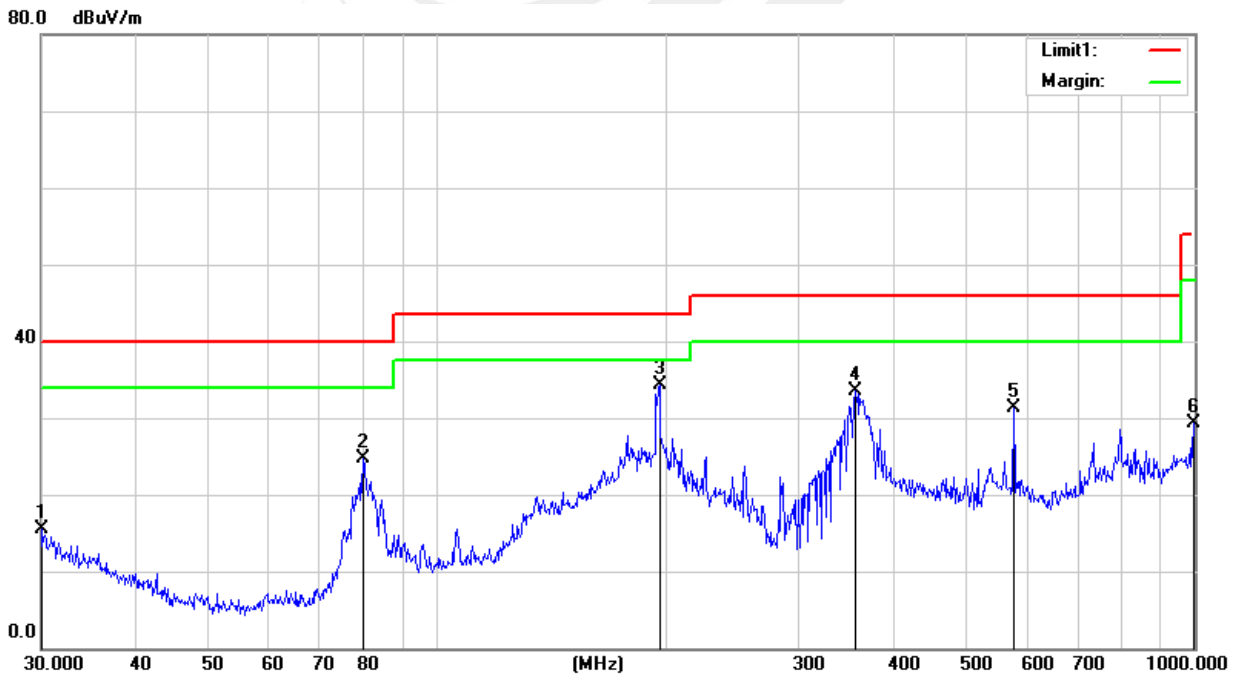
30MHz -1000MHz

Temperature:	25.2 °C	Relative Humidity:	47%
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	30.1054	26.97	-11.51	15.46	40.00	-24.54	QP
2	79.8003	47.61	-22.96	24.65	40.00	-15.35	QP
3	196.5098	55.95	-21.67	34.28	43.50	-9.22	QP
4	356.6758	48.28	-14.77	33.51	46.00	-12.49	QP
5	576.6443	40.61	-9.27	31.34	46.00	-14.66	QP
6	996.4996	32.83	-3.53	29.30	54.00	-24.70	QP

Remark:

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





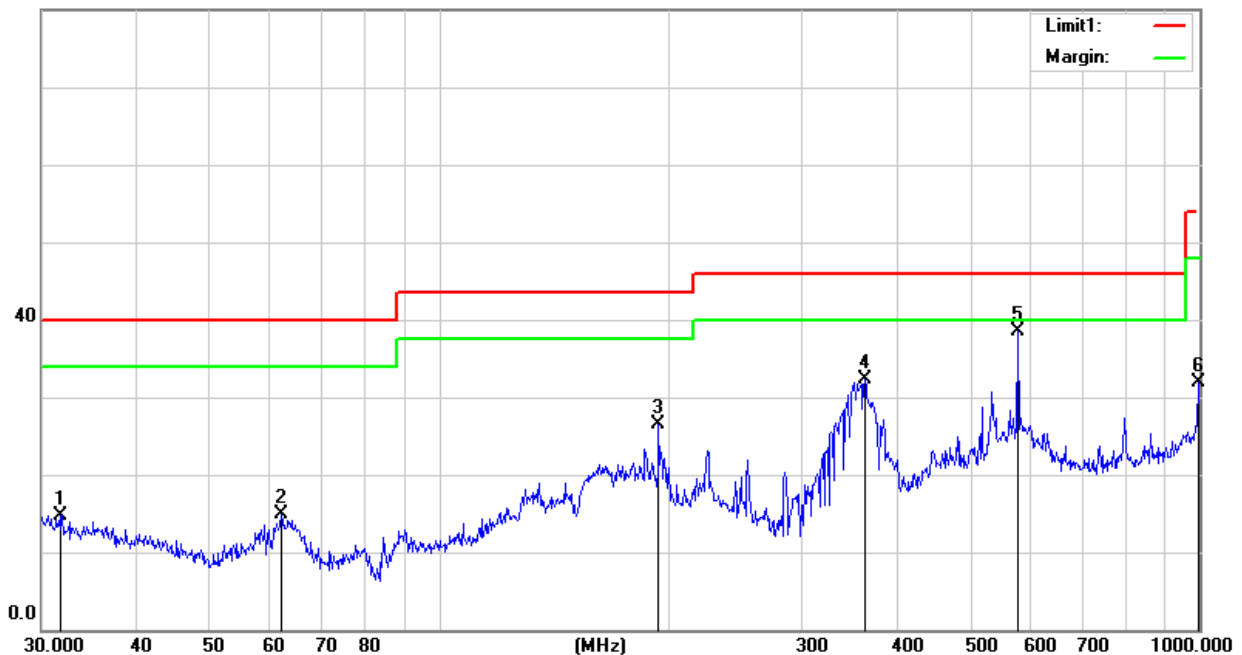
Temperature:	25.2 °C	Relative Humidity:	47%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.8427	28.18	-13.40	14.78	40.00	-25.22	QP
2	61.9951	40.36	-25.46	14.90	40.00	-25.10	QP
3	194.4534	48.49	-22.04	26.45	43.50	-17.05	QP
4	362.9844	47.61	-15.26	32.35	46.00	-13.65	QP
5	576.6443	47.83	-9.24	38.59	46.00	-7.41	QP
6	996.4996	35.49	-3.67	31.82	54.00	-22.18	QP

Remark:

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

80.0 dBuV/m





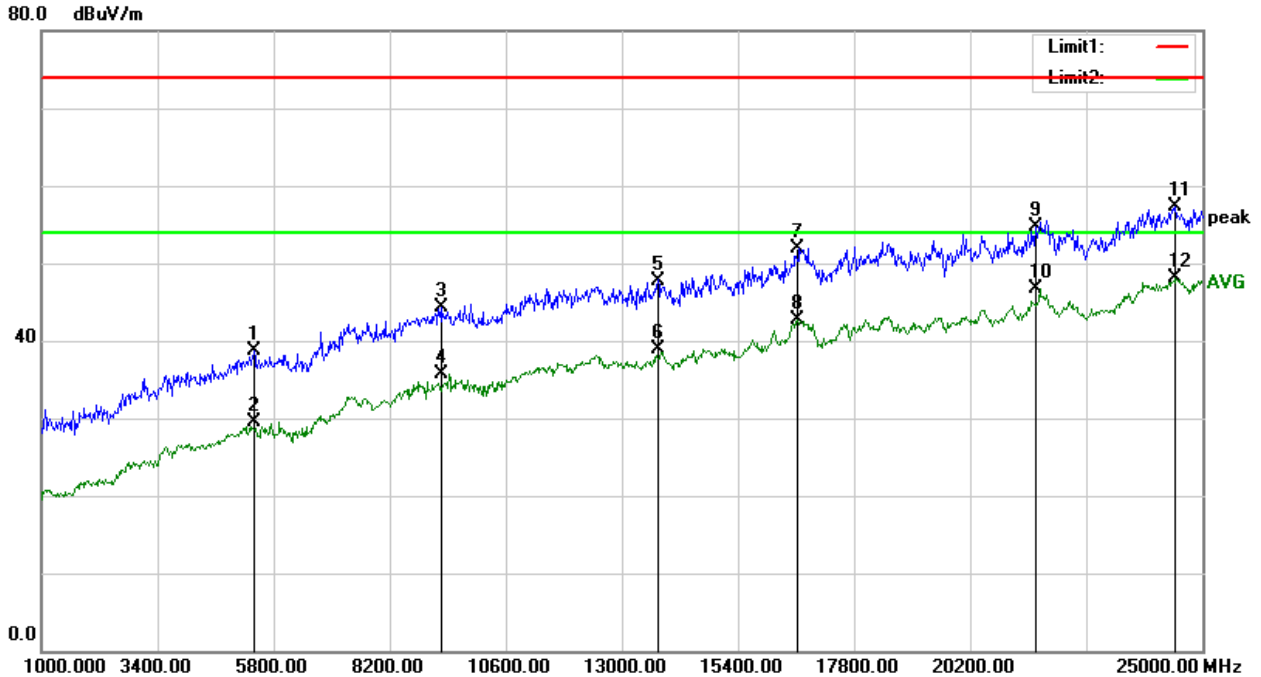
(1 GHz to 25GHz.)

Temperature:	25.2 °C	Relative Humidity:	57%
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	5392.000	31.62	7.16	38.78	74.00	-35.22	Peak
2	5392.000	22.26	7.16	29.42	54.00	-24.58	AVG
3	9256.000	30.43	13.96	44.39	74.00	-29.61	Peak
4	9256.000	21.73	13.96	35.69	54.00	-18.31	AVG
5	13756.000	31.34	16.46	47.80	74.00	-26.20	Peak
6	13756.000	22.46	16.46	38.92	54.00	-15.08	AVG
7	16636.000	34.03	17.91	51.94	74.00	-22.06	Peak
8	16636.000	24.88	17.91	42.79	54.00	-11.21	AVG
9	21556.000	29.95	24.72	54.67	74.00	-19.33	Peak
10	21556.000	21.96	24.72	46.68	54.00	-7.32	AVG
11	24460.000	32.43	24.96	57.39	74.00	-16.61	Peak
12	24460.000	23.05	24.96	48.01	54.00	-5.99	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





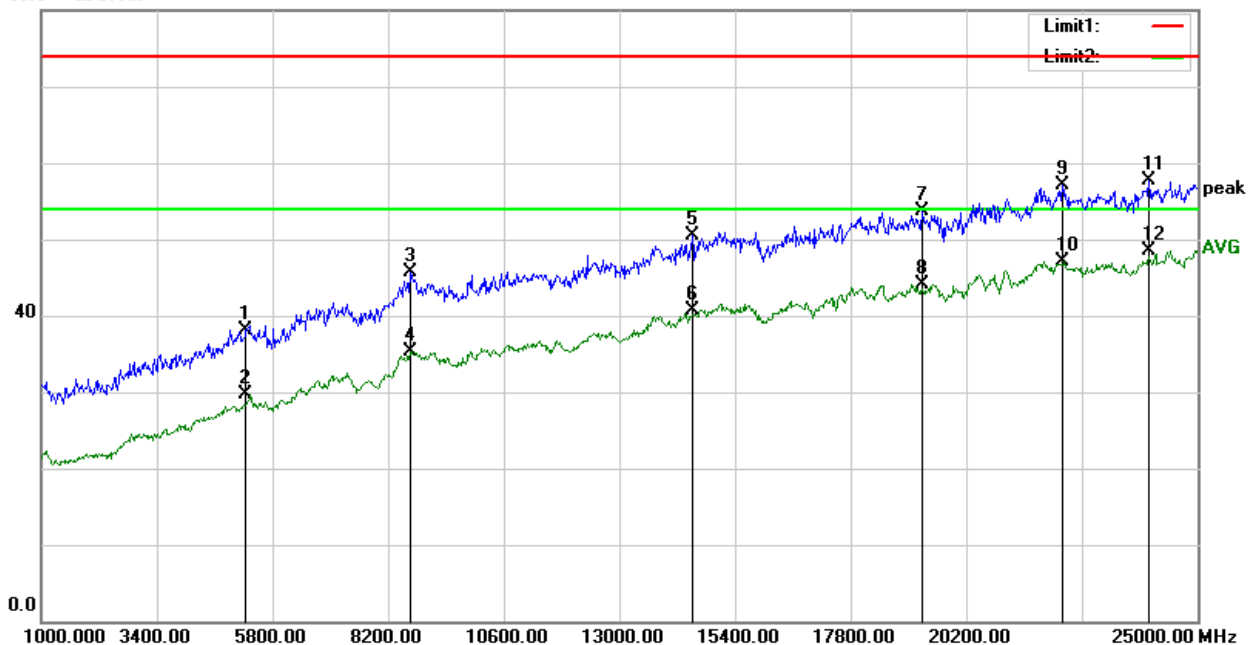
Temperature:	25.2 °C	Relative Humidity:	57%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	5248.000	31.45	6.69	38.14	74.00	-35.86	Peak
2	5248.000	23.00	6.69	29.69	54.00	-24.31	AVG
3	8668.000	32.50	13.21	45.71	74.00	-28.29	Peak
4	8668.000	22.13	13.21	35.34	54.00	-18.66	AVG
5	14512.000	32.30	18.21	50.51	74.00	-23.49	Peak
6	14512.000	22.52	18.21	40.73	54.00	-13.27	AVG
7	19288.000	28.57	25.19	53.76	74.00	-20.24	Peak
8	19288.000	18.91	25.19	44.10	54.00	-9.90	AVG
9	22204.000	32.51	24.50	57.01	74.00	-16.99	Peak
10	22204.000	22.59	24.50	47.09	54.00	-6.91	AVG
11	23992.000	32.77	24.84	57.61	74.00	-16.39	Peak
12	23992.000	23.57	24.84	48.41	54.00	-5.59	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

80.0 dBuV/m



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