



FCC RF Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE/WCDMA/GSM(GPRS) Multi-Mode
Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z855
FCC ID : SRQ-Z855
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 19, 2017 and testing was completed on Aug. 24, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

***No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335
China***



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR771905B	Rev. 01	Initial issue of report	Sep. 01, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.2	15.247(b)(3)	Peak Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	$\leq 20\text{dBc}$	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.16 dB at 40.67 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.08 dB at 0.452 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z855
FCC ID	SRQ-Z855
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+ (16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conducted: 865882030009604/865882030009601 Radiation: 865882030009679 Conduction: 865882030003854
HW Version	Z855HW1.0
SW Version	Z855_MPCSV1.0.0B02
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	-0.51 dBm (0.0009 W)
Antenna Type / Gain	PIFA Antenna with gain -4.20 dBi
Type of Modulation	Bluetooth LE : GFSK



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

Test Site	Sporton International (Kunshan) Inc.			
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958			
Test Site No.	Sporton Site No.			FCC Test Firm Registration No.
	TH01-KS	03CH03-KS	CO01-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

Channel	Frequency	Bluetooth – LE RF Output Power
		Data Rate / Modulation
		GFSK
		1Mbps
Ch00	2402MHz	-1.18 dBm
Ch19	2440MHz	-0.51 dBm
Ch39	2480MHz	-0.57 dBm

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

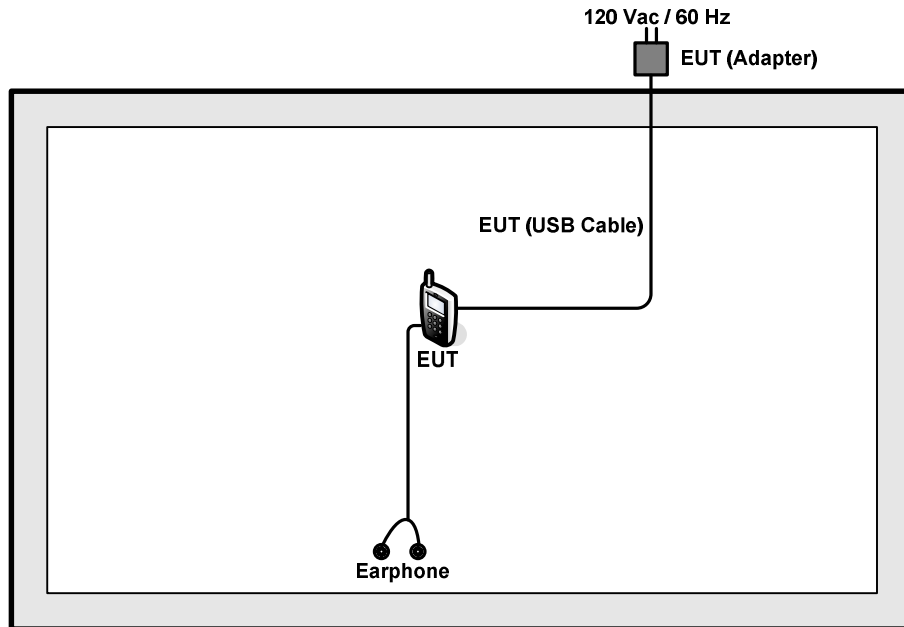
2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

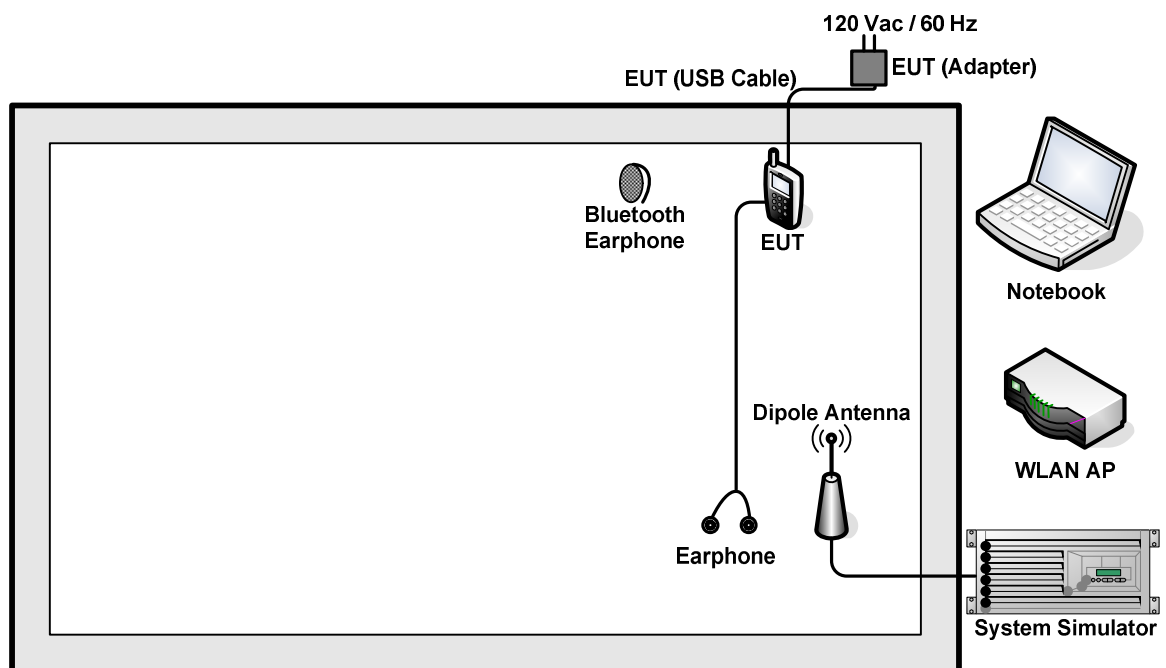
Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
Conducted TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + Earphone + USB Cable (Charging from Adapter1) Mode 2 : GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + Earphone + USB Cable (Charging from Adapter2)
Remark: 1. The worst case of conducted emission is mode 2; only the test data of it was reported. 2. For Radiated Test Cases, The tests were performance with Adapter, Earphone, and USB Cable.	

2.3 Connection Diagram of Test System

<Bluetooth – LE Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	PRC4	N/A	Shielded cable DC O/P 1.8 m Unshielded AC I/P cable 1.8 m
4.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
5.	Earphone	Lenovo	SH100	N/A	N/A	N/A
6.	SD Card	Kingston	8GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth LE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss

Following shows an offset computation example with cable loss 5.5 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.5 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

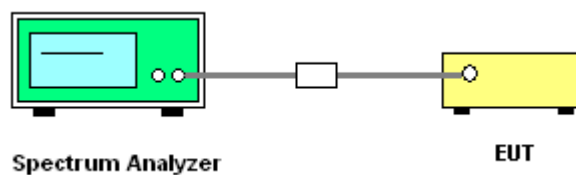
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.

3.1.4 Test Setup

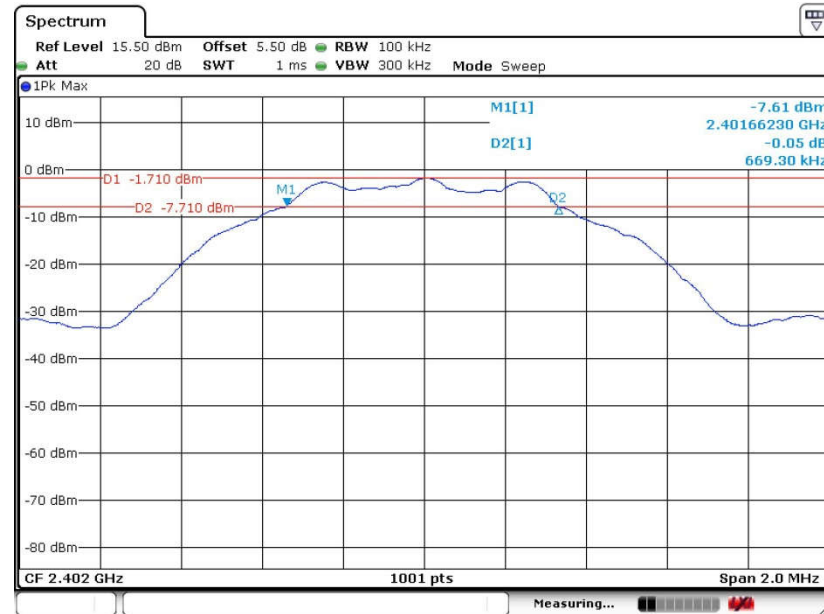




3.1.5 Test Result of 6dB Bandwidth

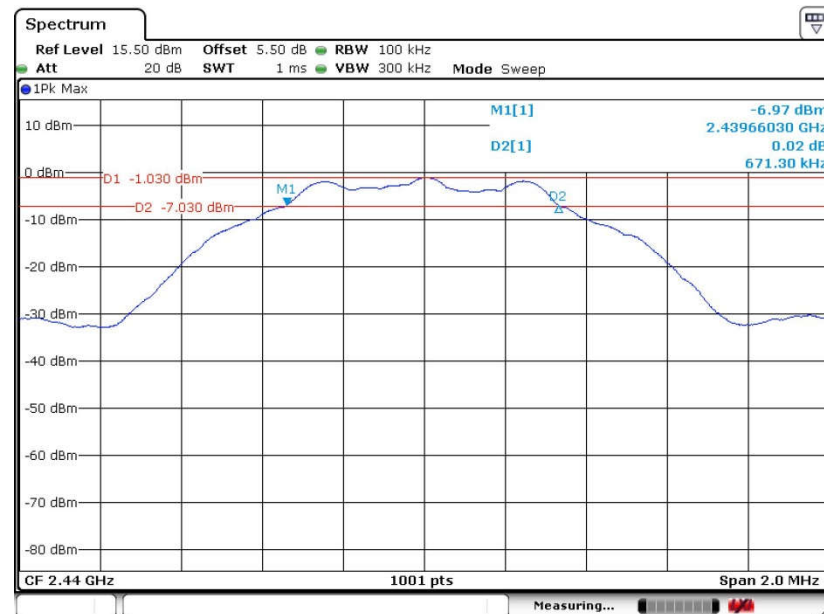
Test data refer to Appendix A.

6 dB Bandwidth Plot on Channel 00



Date: 15.AUG.2017 11:59:18

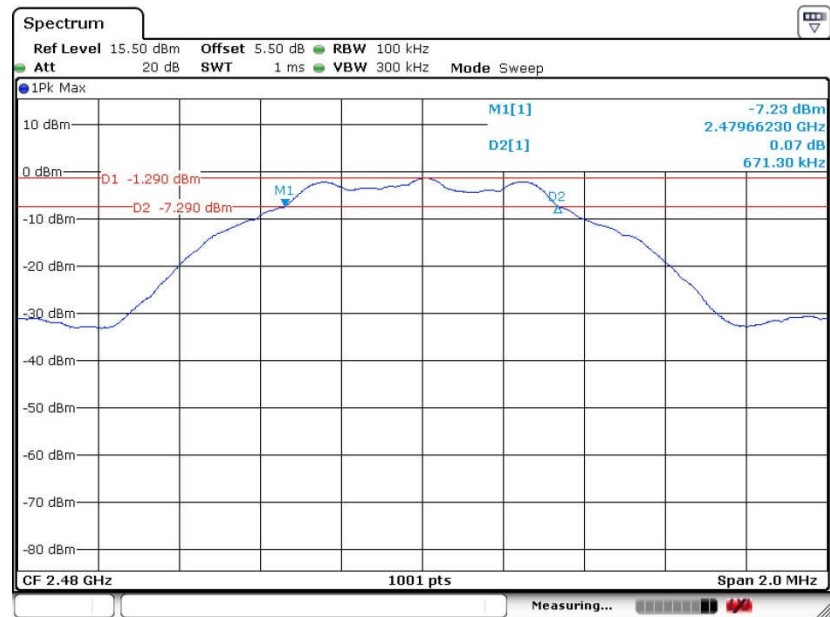
6 dB Bandwidth Plot on Channel 19



Date: 15.AUG.2017 12:00:29



6 dB Bandwidth Plot on Channel 39



Date: 15.AUG.2017 12:10:13

3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

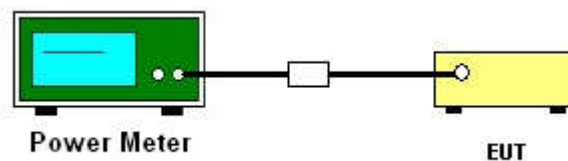
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test data refers to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

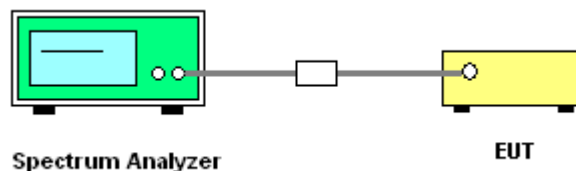
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



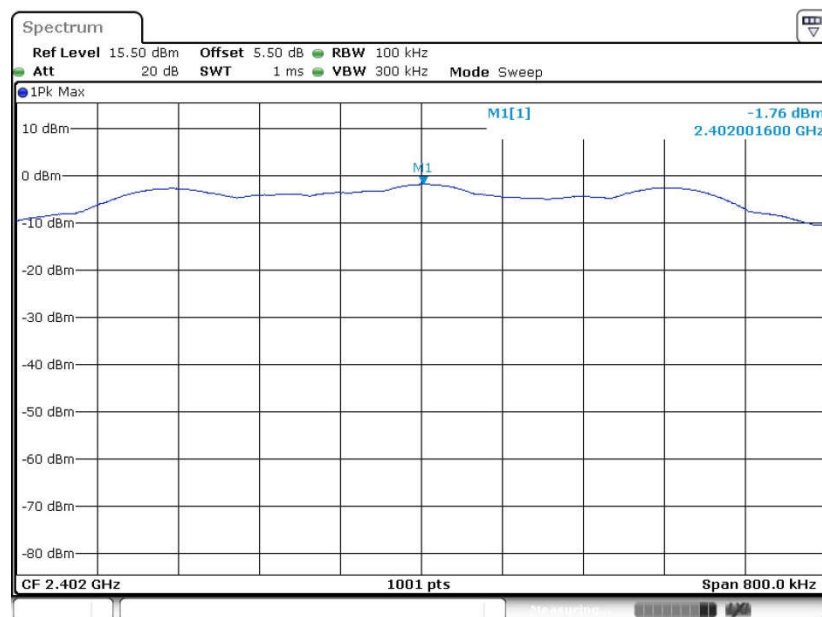


3.3.5 Test Result of Power Spectral Density

Test data refers to Appendix A.

3.3.6 Test Result of Power Spectral Density Plots (100kHz)

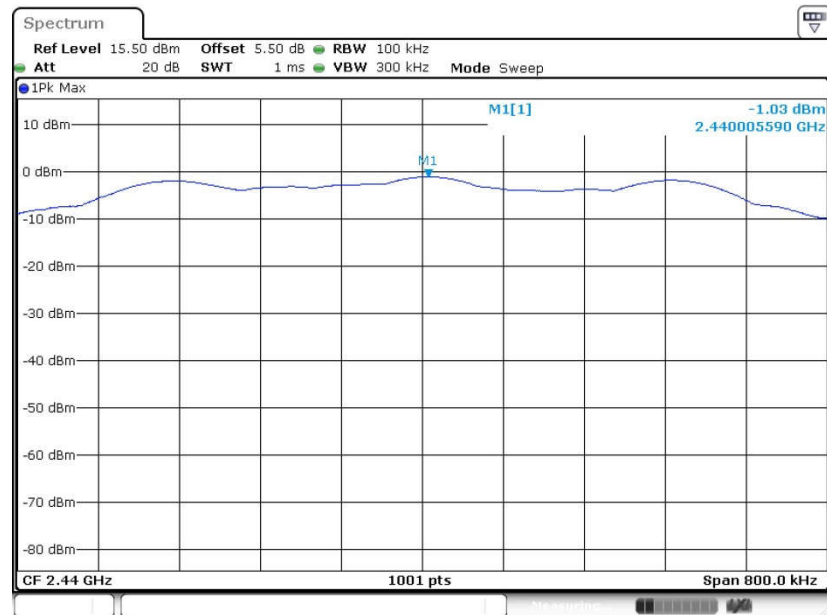
PSD 100kHz Plot on Channel 00



Date: 15.AUG.2017 11:52:42

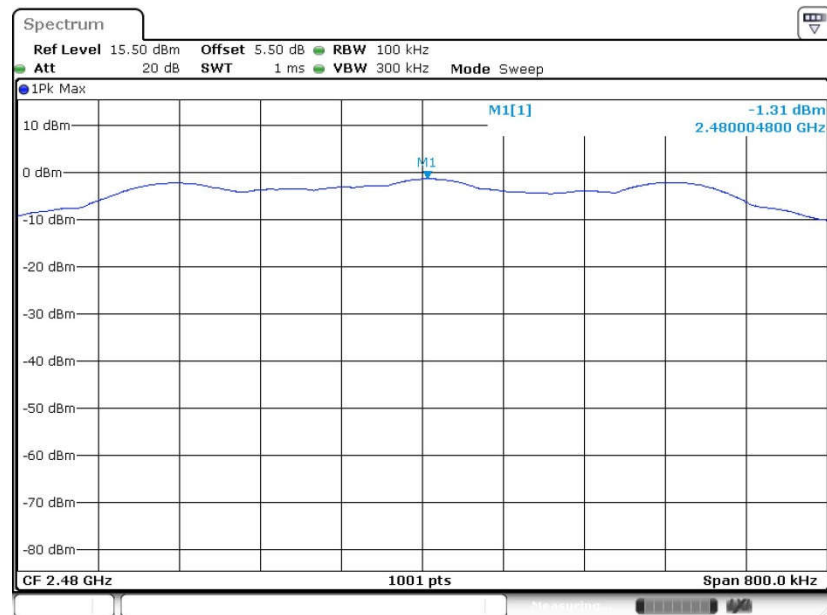


PSD 100kHz Plot on Channel 19



Date: 15.AUG.2017 12:05:58

PSD 100kHz Plot on Channel 39

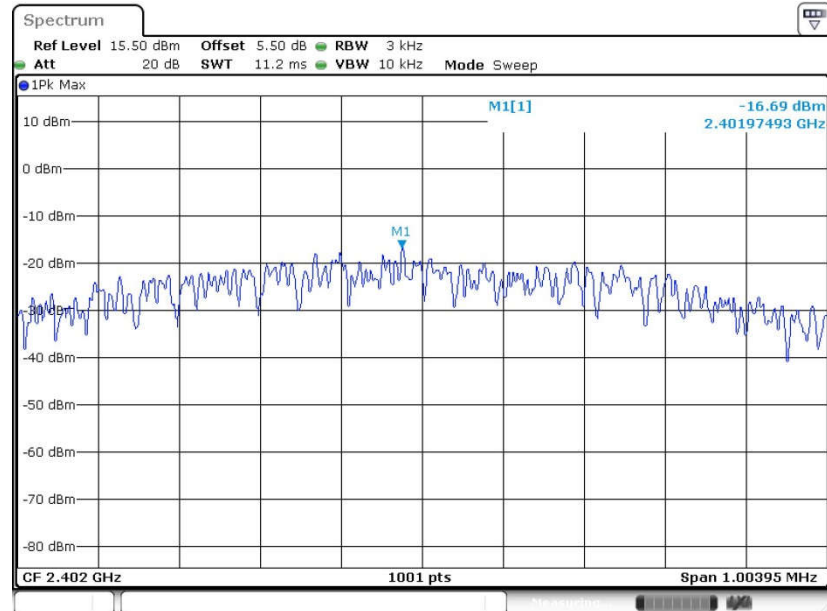


Date: 15.AUG.2017 12:10:55



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

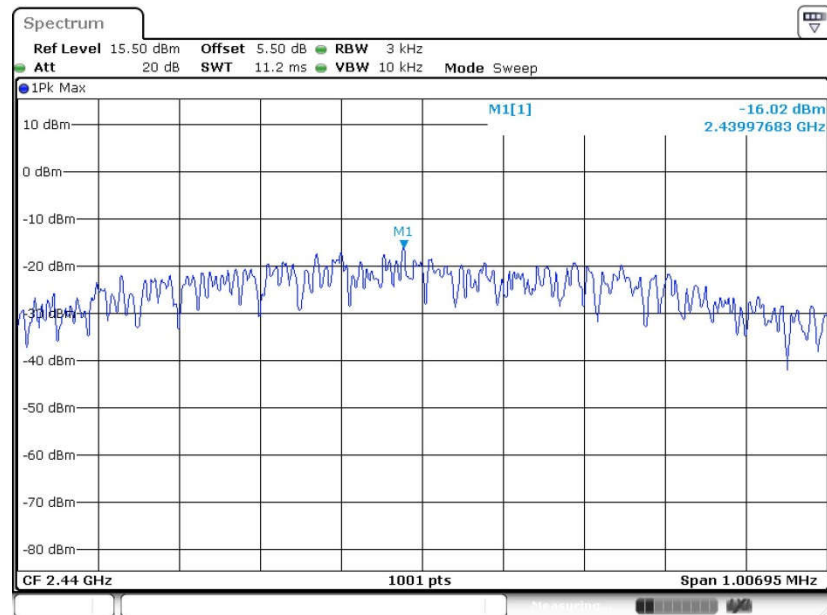
PSD 3kHz Plot on Channel 00



Date: 15.AUG.2017 11:52:17

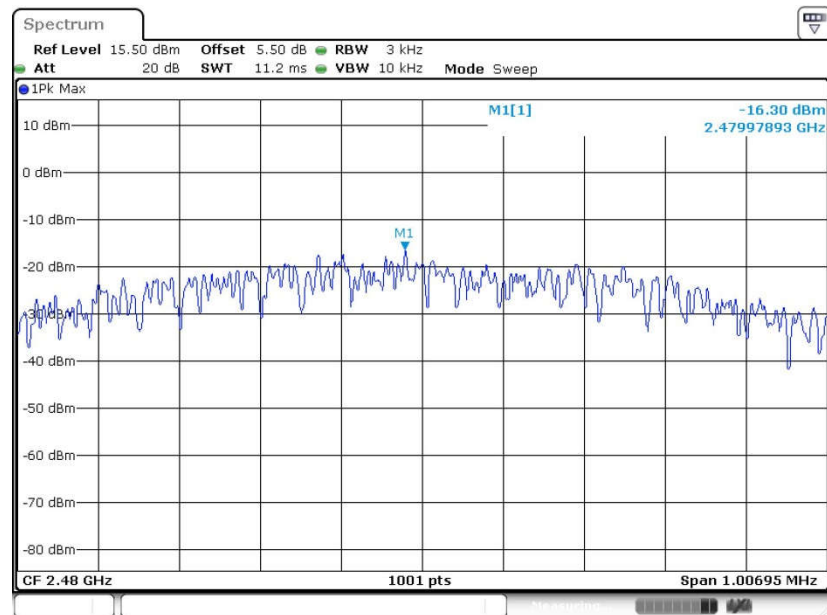


PSD 3kHz Plot on Channel 19



Date: 15.AUG.2017 12:00:40

PSD 3kHz Plot on Channel 39



Date: 15.AUG.2017 12:10:24

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

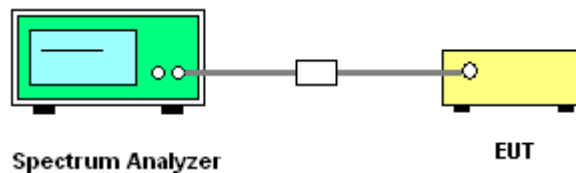
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

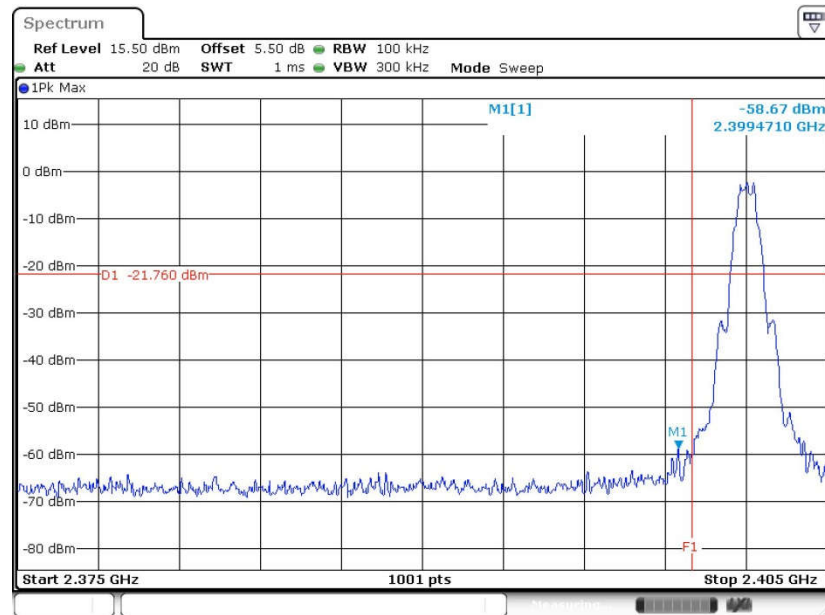
3.4.4 Test Setup





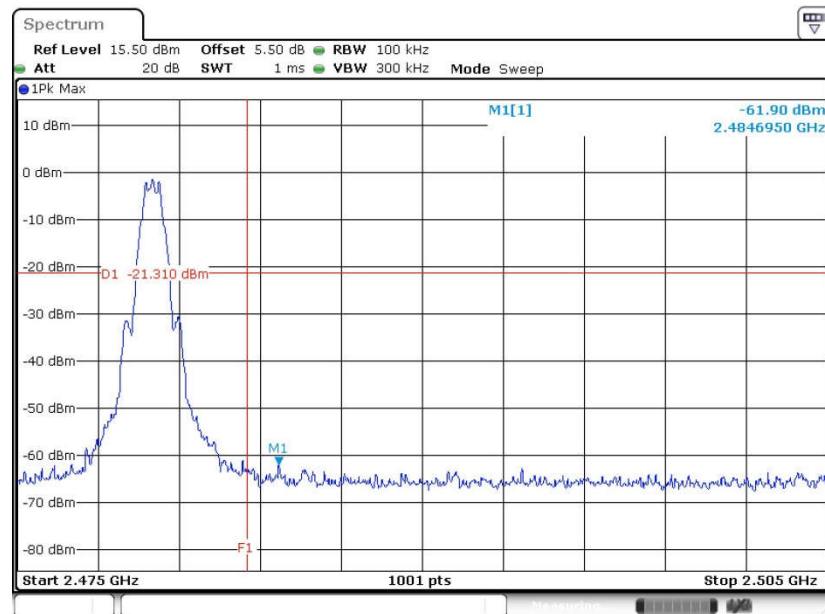
3.4.5 Test Result of Conducted Band Edges Plots

Low Band Edge Plot on Channel 00



Date: 15.AUG.2017 11:53:53

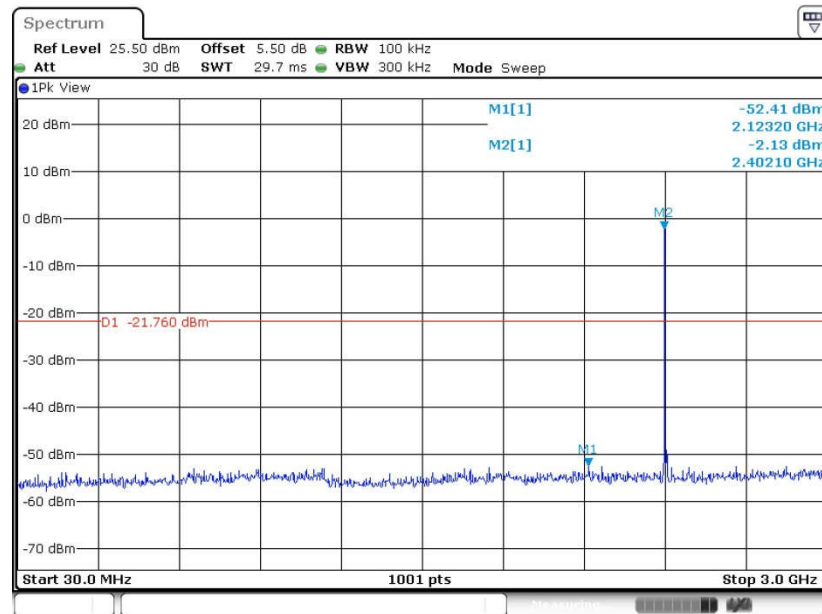
High Band Edge Plot on Channel 39



Date: 15.AUG.2017 12:11:37

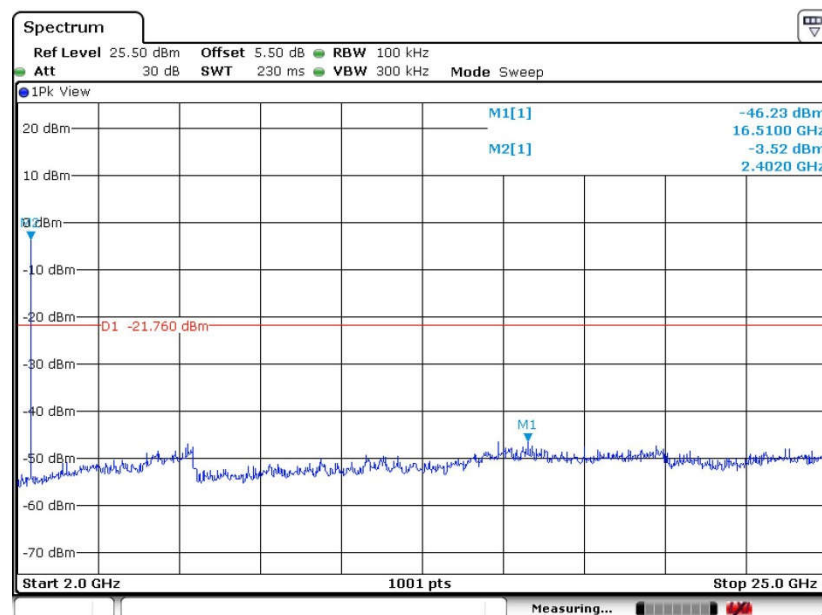
3.4.6 Test Result of Conducted Spurious Emission Plots

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 15.AUG.2017 11:57:10

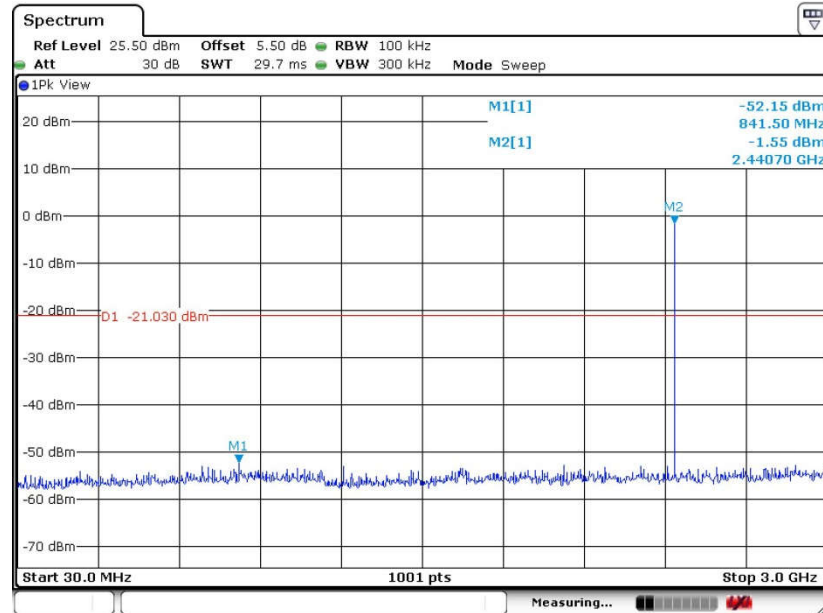
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 15.AUG.2017 11:57:57

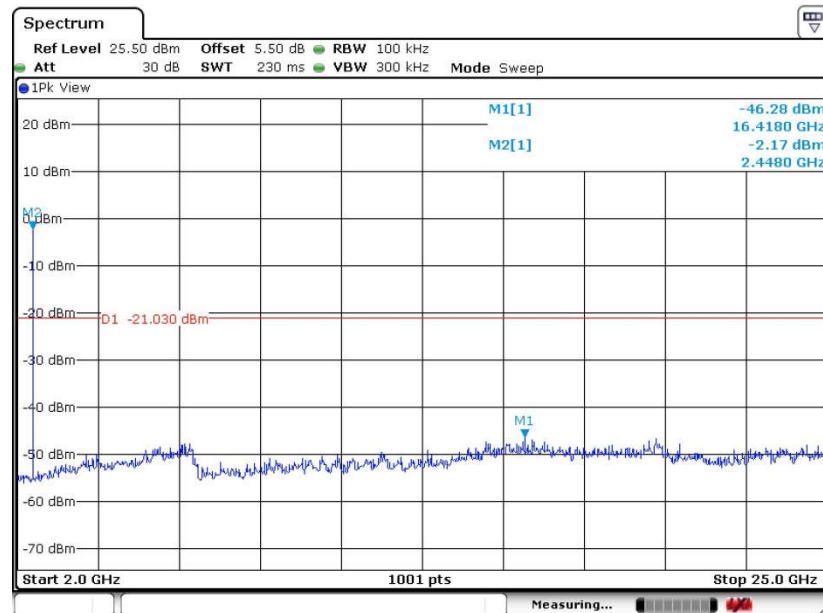


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 19



Date: 15.AUG.2017 12:07:09

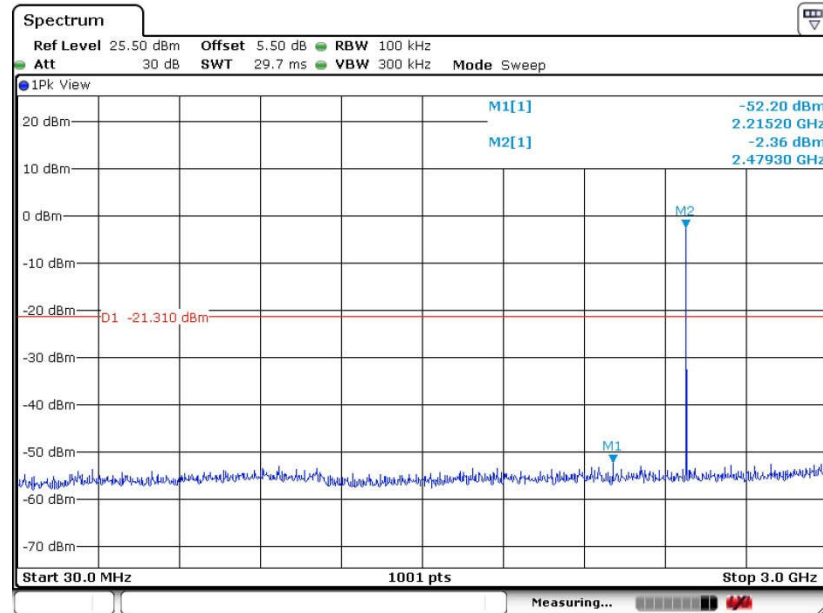
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 19



Date: 15.AUG.2017 12:06:30

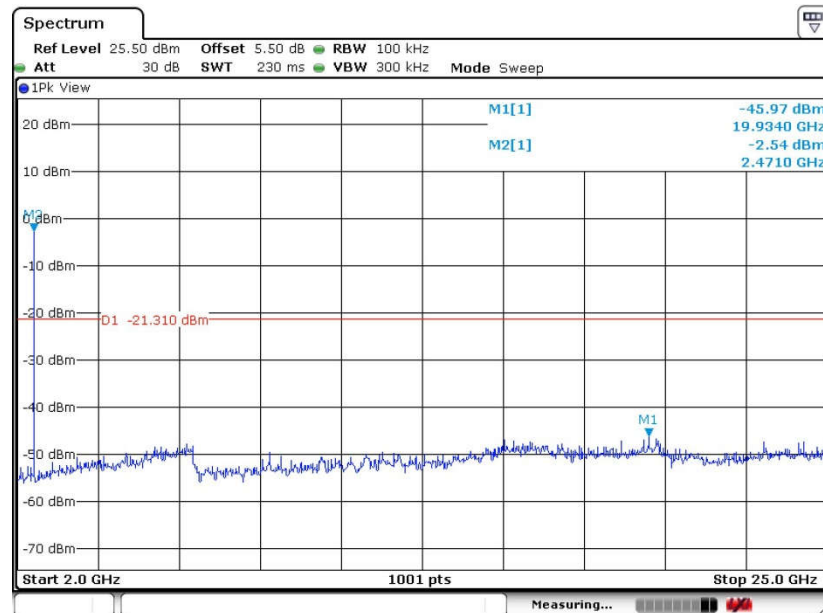


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 39



Date: 15.AUG.2017 12:13:08

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 39



Date: 15.AUG.2017 12:12:21

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.



3.5.3 Test Procedures

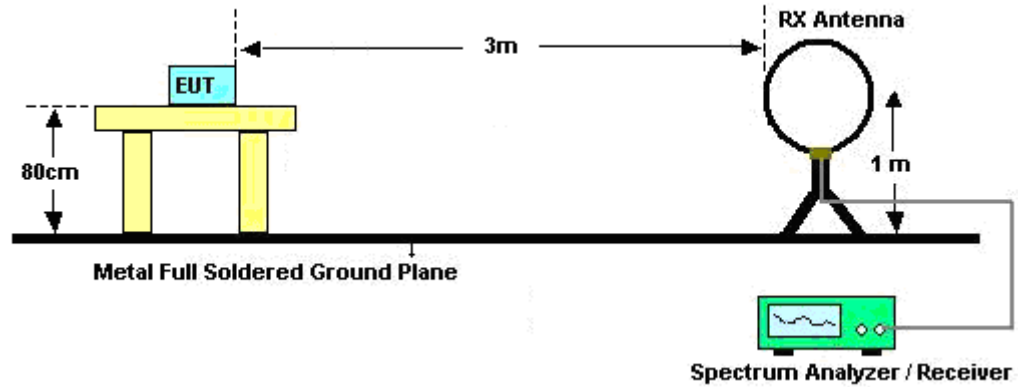
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

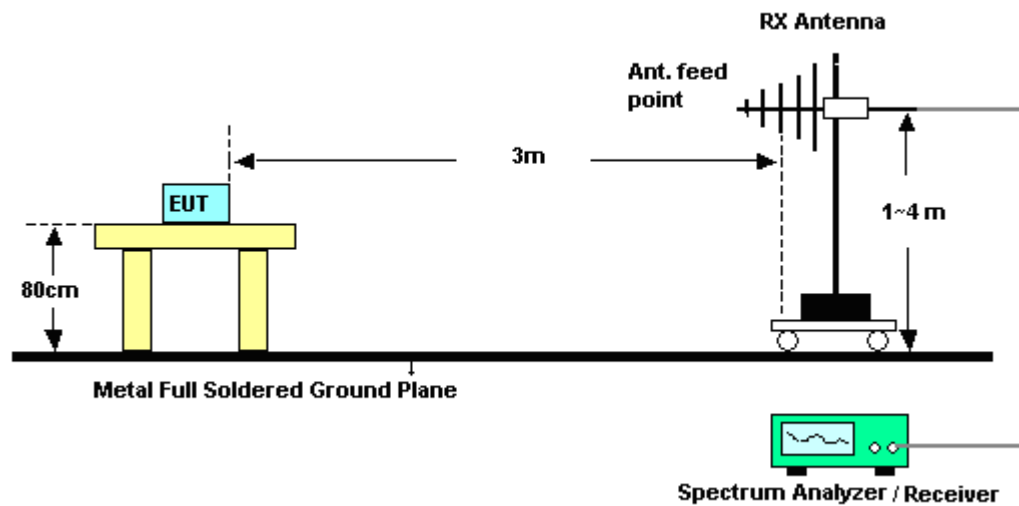
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

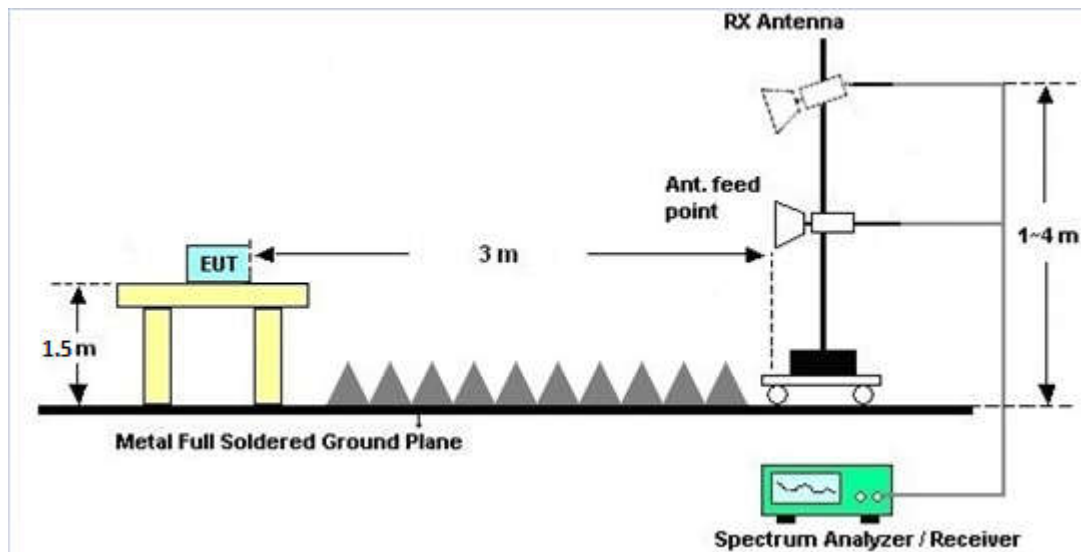
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

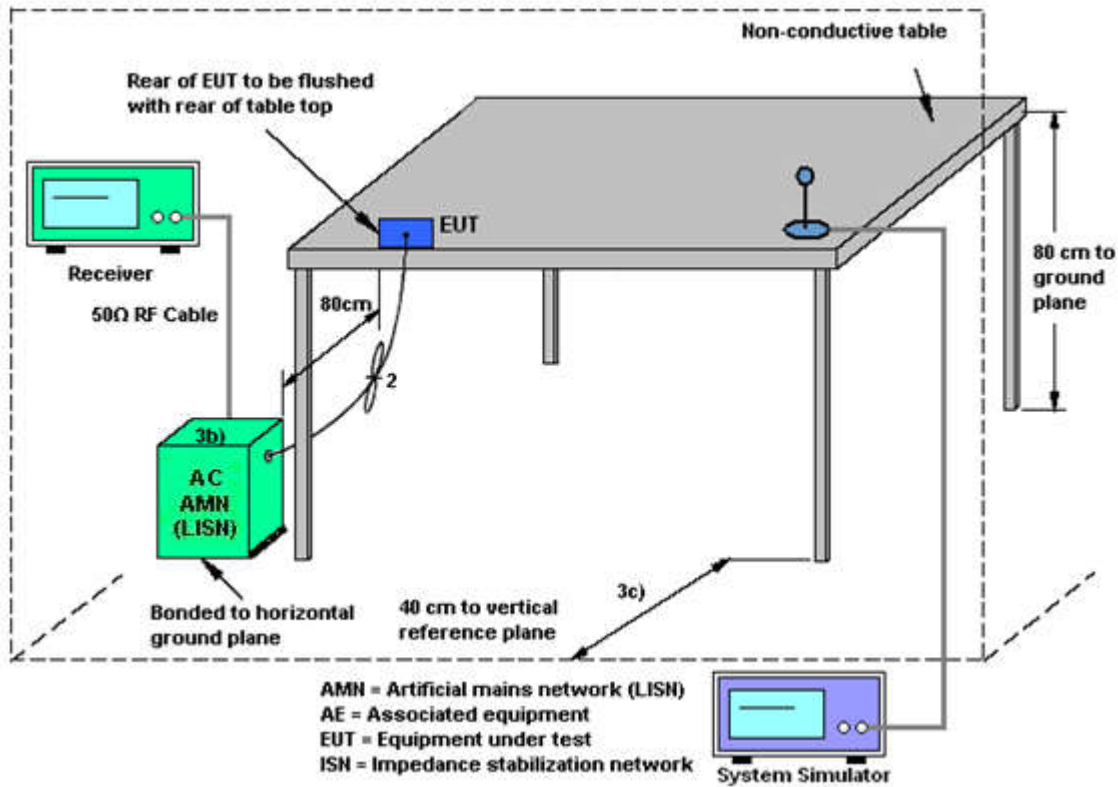
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

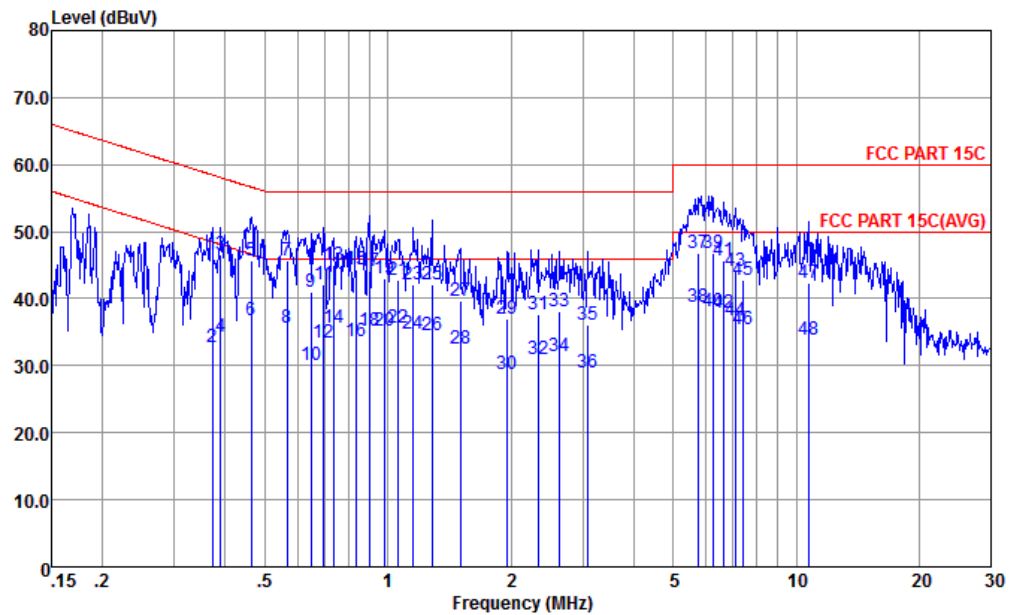
3.6.4 Test Setup





3.6.5 Test Result of AC Conducted Emission

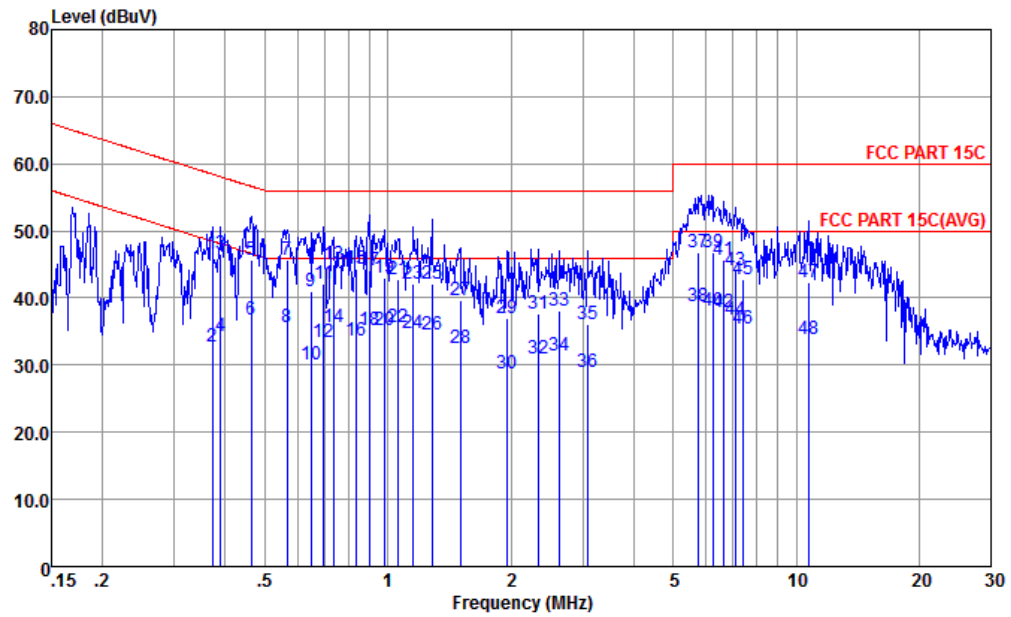
Test Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + Earphone + USB Cable (Charging from Adapter2)		



Site : CO01-KS
Condition : FCC PART 15C LISN-L-161017-060103 LINE

mode : Mode 2
: 865882030003854 #8

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.371	46.68	-11.79	58.47	36.20	0.27	10.21	QP
2	0.371	32.68	-15.79	48.47	22.20	0.27	10.21	Average
3	0.389	46.68	-11.40	58.08	36.20	0.27	10.21	QP
4	0.389	34.38	-13.70	48.08	23.90	0.27	10.21	Average
5	0.464	45.66	-10.97	56.63	35.20	0.27	10.19	QP
6 *	0.464	36.66	-9.97	46.63	26.20	0.27	10.19	Average
7	0.567	45.75	-10.25	56.00	35.31	0.26	10.18	QP
8	0.567	35.75	-10.25	46.00	25.31	0.26	10.18	Average
9	0.647	41.03	-14.97	56.00	30.60	0.25	10.18	QP
10	0.647	30.03	-15.97	46.00	19.60	0.25	10.18	Average
11	0.697	42.03	-13.97	56.00	31.60	0.25	10.18	QP
12	0.697	33.33	-12.67	46.00	22.90	0.25	10.18	Average
13	0.739	44.93	-11.07	56.00	34.50	0.25	10.18	QP
14	0.739	35.73	-10.27	46.00	25.30	0.25	10.18	Average
15	0.835	44.33	-11.67	56.00	33.90	0.25	10.18	QP
16	0.835	33.73	-12.27	46.00	23.30	0.25	10.18	Average
17	0.904	44.04	-11.96	56.00	33.60	0.26	10.18	QP

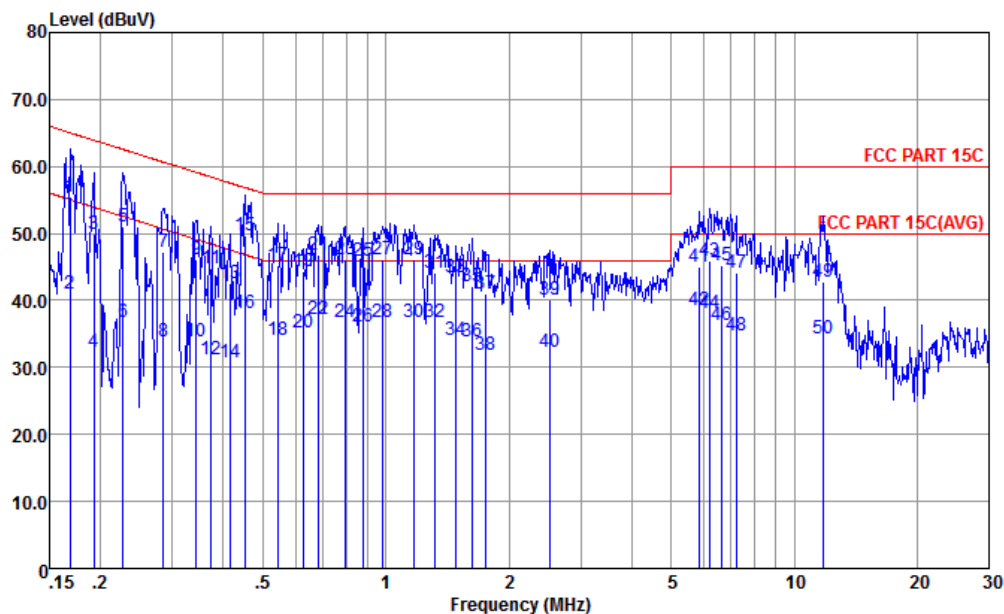


Site : CO01-KS
 Condition : FCC PART 15C LISN-L-161017-060103 LINE
 mode : Mode 2
 : 865882030003854 #8

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
18	0.904	35.24	-10.76	46.00	24.80	0.26	10.18	Average
19	0.984	43.05	-12.95	56.00	32.60	0.26	10.19	QP
20	0.984	35.25	-10.75	46.00	24.80	0.26	10.19	Average
21	1.060	42.75	-13.25	56.00	32.30	0.26	10.19	QP
22	1.060	35.65	-10.35	46.00	25.20	0.26	10.19	Average
23	1.153	42.04	-13.96	56.00	31.60	0.25	10.19	QP
24	1.153	34.74	-11.26	46.00	24.30	0.25	10.19	Average
25	1.282	42.03	-13.97	56.00	31.60	0.24	10.19	QP
26	1.282	34.63	-11.37	46.00	24.20	0.24	10.19	Average
27	1.503	39.62	-16.38	56.00	29.20	0.23	10.19	QP
28	1.503	32.62	-13.38	46.00	22.20	0.23	10.19	Average
29	1.959	37.00	-19.00	56.00	26.60	0.21	10.19	QP
30	1.959	28.70	-17.30	46.00	18.30	0.21	10.19	Average
31	2.334	37.61	-18.39	56.00	27.20	0.21	10.20	QP
32	2.334	31.01	-14.99	46.00	20.60	0.21	10.20	Average
33	2.636	38.02	-17.98	56.00	27.60	0.21	10.21	QP
34	2.636	31.32	-14.68	46.00	20.90	0.21	10.21	Average
35	3.074	36.03	-19.97	56.00	25.60	0.21	10.22	QP
36	3.074	29.03	-16.97	46.00	18.60	0.21	10.22	Average
37	5.774	46.78	-13.22	60.00	36.29	0.23	10.26	QP
38	5.774	38.68	-11.32	50.00	28.19	0.23	10.26	Average
39	6.252	46.80	-13.20	60.00	36.29	0.24	10.27	QP
40	6.252	38.10	-11.90	50.00	27.59	0.24	10.27	Average
41	6.662	45.72	-14.28	60.00	35.20	0.24	10.28	QP
42	6.662	37.82	-12.18	50.00	27.30	0.24	10.28	Average
43	7.100	44.14	-15.86	60.00	33.60	0.25	10.29	QP
44	7.100	36.84	-13.16	50.00	26.30	0.25	10.29	Average
45	7.407	42.85	-17.15	60.00	32.30	0.26	10.29	QP
46	7.407	35.35	-14.65	50.00	24.80	0.26	10.29	Average
47	10.733	42.25	-17.75	60.00	31.59	0.30	10.36	QP
48	10.733	33.95	-16.05	50.00	23.29	0.30	10.36	Average



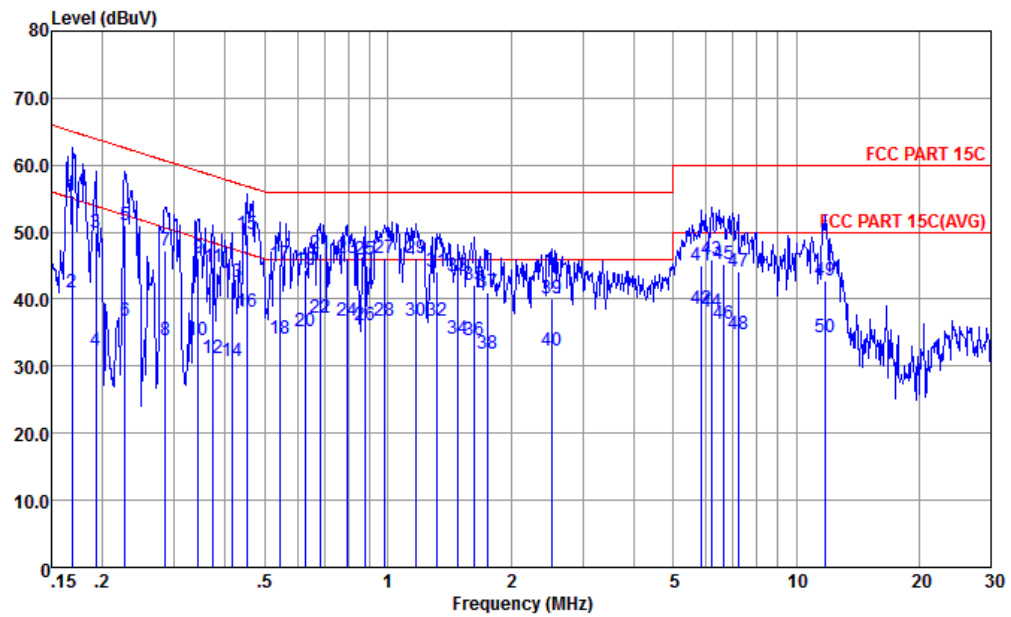
Test Mode :	Mode 2	Temperature :	22~24℃
Test Engineer :	Amos Zhang	Relative Humidity :	42~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + Earphone + USB Cable (Charging from Adapter2)		



Site : CO01-KS
Condition : FCC PART 15C LISN-N-161017-060103 NEUTRAL

mode : Mode 2
: 865882030003854 #8

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.169	55.51	-9.52	65.03	44.80	0.34	10.37	QP
2	0.169	41.01	-14.02	55.03	30.30	0.34	10.37	Average
3	0.192	49.87	-14.06	63.93	39.20	0.33	10.34	QP
4	0.192	32.27	-21.66	53.93	21.60	0.33	10.34	Average
5	0.227	50.95	-11.62	62.57	40.30	0.34	10.31	QP
6	0.227	36.85	-15.72	52.57	26.20	0.34	10.31	Average
7	0.285	47.21	-13.47	60.68	36.60	0.35	10.26	QP
8	0.285	33.91	-16.77	50.68	23.30	0.35	10.26	Average
9	0.343	46.09	-13.04	59.13	35.50	0.36	10.23	QP
10	0.343	33.89	-15.24	49.13	23.30	0.36	10.23	Average
11	0.373	44.78	-13.65	58.43	34.21	0.36	10.21	QP
12	0.373	31.18	-17.25	48.43	20.61	0.36	10.21	Average
13	0.417	42.47	-15.04	57.51	31.90	0.37	10.20	QP
14	0.417	30.77	-16.74	47.51	20.20	0.37	10.20	Average
15 *	0.452	49.77	-7.08	56.85	39.21	0.37	10.19	QP
16	0.452	38.17	-8.68	46.85	27.61	0.37	10.19	Average
17	0.546	45.17	-10.83	56.00	34.60	0.38	10.19	QP



Site : CO01-KS
Condition : FCC PART 15C LISN-N-161017-060103 NEUTRAL
mode : Mode 2
: 865882030003854 #8

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
18	0.546	34.17	-11.83	46.00	23.60	0.38	10.19	Average
19	0.627	44.36	-11.64	56.00	33.80	0.38	10.18	QP
20	0.627	35.16	-10.84	46.00	24.60	0.38	10.18	Average
21	0.683	46.86	-9.14	56.00	36.30	0.38	10.18	QP
22	0.683	37.16	-8.84	46.00	26.60	0.38	10.18	Average
23	0.796	46.06	-9.94	56.00	35.50	0.39	10.17	QP
24	0.796	36.76	-9.24	46.00	26.20	0.39	10.17	Average
25	0.880	45.87	-10.13	56.00	35.30	0.39	10.18	QP
26	0.880	36.17	-9.83	46.00	25.60	0.39	10.18	Average
27	0.984	46.09	-9.91	56.00	35.50	0.40	10.19	QP
28	0.984	36.79	-9.21	46.00	26.20	0.40	10.19	Average
29	1.172	46.09	-9.91	56.00	35.50	0.40	10.19	QP
30	1.172	36.79	-9.21	46.00	26.20	0.40	10.19	Average
31	1.317	44.19	-11.81	56.00	33.60	0.40	10.19	QP
32	1.317	36.79	-9.21	46.00	26.20	0.40	10.19	Average
33	1.487	43.39	-12.61	56.00	32.79	0.41	10.19	QP
34	1.487	34.19	-11.81	46.00	23.59	0.41	10.19	Average
35	1.628	42.19	-13.81	56.00	31.59	0.41	10.19	QP
36	1.628	33.79	-12.21	46.00	23.19	0.41	10.19	Average
37	1.762	40.90	-15.10	56.00	30.30	0.41	10.19	QP
38	1.762	31.90	-14.10	46.00	21.30	0.41	10.19	Average
39	2.513	40.21	-15.79	56.00	29.61	0.40	10.20	QP
40	2.513	32.21	-13.79	46.00	21.61	0.40	10.20	Average
41	5.836	44.91	-15.09	60.00	34.29	0.36	10.26	QP
42	5.836	38.51	-11.49	50.00	27.89	0.36	10.26	Average
43	6.186	45.81	-14.19	60.00	35.20	0.35	10.26	QP
44	6.186	38.21	-11.79	50.00	27.60	0.35	10.26	Average
45	6.662	45.21	-14.79	60.00	34.59	0.34	10.28	QP
46	6.662	36.41	-13.59	50.00	25.79	0.34	10.28	Average
47	7.213	44.11	-15.89	60.00	33.49	0.33	10.29	QP
48	7.213	34.81	-15.19	50.00	24.19	0.33	10.29	Average
49	11.807	42.86	-17.14	60.00	32.20	0.28	10.38	QP
50	11.807	34.26	-15.74	50.00	23.60	0.28	10.38	Average



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Aug. 15, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Aug. 15, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Aug. 15, 2017	Jan. 19, 2018	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 22, 2016	Aug. 24, 2017	Oct. 21, 2017	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Aug. 24, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Aug. 24, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Aug. 24, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Aug. 24, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz~40GHz	Oct. 19, 2016	Aug. 24, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 18, 2017	Aug. 24, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1GHz~18GHz	Apr. 18, 2017	Aug. 24, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Aug. 24, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 24, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 24, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 24, 2017	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2017	Aug. 24, 2017	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Aug. 24, 2017	Oct. 13, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Aug. 24, 2017	Oct. 13, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Aug. 24, 2017	Oct. 13, 2017	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3dB
--	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6dB
--	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
--	-------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7dB
--	-------



Appendix A. Conducted Test Results

Bluetooth Low Energy

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2017/8/15	Relative Humidity:	51~55	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.05	0.67	0.50	Pass
BLE	1Mbps	1	19	2440	1.05	0.67	0.50	Pass
BLE	1Mbps	1	39	2480	1.05	0.67	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	-1.18	30.00	-4.20	-5.38	36.00	Pass
BLE	1Mbps	1	19	2440	-0.51	30.00	-4.20	-4.71	36.00	Pass
BLE	1Mbps	1	39	2480	-0.57	30.00	-4.20	-4.77	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.04	-1.58
BLE	1Mbps	1	19	2440	2.04	-0.77
BLE	1Mbps	1	39	2480	2.04	-0.93

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	-1.76	-16.69	-4.20	8.00	Pass
BLE	1Mbps	1	19	2440	-1.03	-16.02	-4.20	8.00	Pass
BLE	1Mbps	1	39	2480	-1.31	-16.30	-4.20	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.



Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2355.89	49.36	-24.64	74	54.89	25.55	5.43	36.51	400	51	P	H
		2380.98	40.16	-13.84	54	45.5	25.67	5.45	36.46	400	51	A	H
	*	2402	88.89	-	-	94.04	25.8	5.47	36.42	400	51	P	H
	*	2402	88.2	-	-	93.35	25.8	5.47	36.42	400	51	A	H
		2345.36	50.12	-23.88	74	55.84	25.42	5.41	36.55	100	106	P	V
		2383.84	40.32	-13.68	54	45.66	25.67	5.45	36.46	100	106	A	V
	*	2402	89.52	-	-	94.67	25.8	5.47	36.42	100	106	P	V
	*	2402	88.9	-	-	94.05	25.8	5.47	36.42	100	106	A	V
BLE CH 19 2440MHz		2339.12	49.73	-24.27	74	55.45	25.42	5.41	36.55	388	153	P	H
		2383.84	39.96	-14.04	54	45.3	25.67	5.45	36.46	388	153	A	H
	*	2440	89.2	-	-	94.27	25.89	5.49	36.45	388	153	P	H
	*	2440	88.5	-	-	93.57	25.89	5.49	36.45	388	153	A	H
		2490.1	50.13	-23.87	74	55.12	25.97	5.52	36.48	388	153	P	H
		2489.32	40.29	-13.71	54	45.28	25.97	5.52	36.48	388	153	A	H
		2378.25	49.75	-24.25	74	55.09	25.67	5.45	36.46	345	56	P	V
		2388.52	39.98	-14.02	54	45.13	25.8	5.47	36.42	345	56	A	V
	*	2440	90.21	-	-	95.28	25.89	5.49	36.45	345	56	P	V
	*	2440	89.56	-	-	94.63	25.89	5.49	36.45	345	56	A	V
		2498.26	50.49	-23.51	74	55.48	25.97	5.52	36.48	345	56	P	V
		2487.82	40.47	-13.53	54	45.46	25.97	5.52	36.48	345	56	A	V



BLE CH 39 2480MHz	*	2480	87.28	-	-	92.3	25.94	5.51	36.47	400	155	P	H
	*	2480	86.53	-	-	91.55	25.94	5.51	36.47	400	155	A	H
		2490.88	50.46	-23.54	74	55.45	25.97	5.52	36.48	400	155	P	H
		2490.34	40.52	-13.48	54	45.51	25.97	5.52	36.48	400	155	A	H
	*	2480	90.06	-	-	95.08	25.94	5.51	36.47	312	287	P	V
	*	2480	89.43	-	-	94.45	25.94	5.51	36.47	312	287	A	V
		2493.16	50.49	-23.51	74	55.48	25.97	5.52	36.48	312	287	P	V
		2483.51	40.8	-13.2	54	45.82	25.94	5.51	36.47	312	287	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4806	40.93	-33.07	74	39.1	30.62	7.71	36.5	100	360	P	H
		4806	41.67	-32.33	74	39.84	30.62	7.71	36.5	100	360	P	V
BLE CH 19 2440MHz		4878	41.45	-32.55	74	39.37	30.85	7.76	36.53	100	360	P	H
		7320	45.74	-28.26	74	37.36	34.85	9.78	36.25	100	360	P	H
		4878	41.56	-32.44	74	39.48	30.85	7.76	36.53	100	360	P	V
		7320	46.75	-27.25	74	38.37	34.85	9.78	36.25	100	360	P	V
BLE CH 39 2480MHz		4962	42.28	-31.72	74	39.9	31.13	7.82	36.57	100	360	P	H
		7440	46.49	-27.51	74	37.74	35.17	9.87	36.29	100	360	P	H
		4962	41.28	-32.72	74	38.9	31.13	7.82	36.57	100	360	P	V
		7440	45.58	-28.42	74	36.83	35.17	9.87	36.29	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		30	32.43	-7.57	40	37.27	26.8	0.65	32.29	-	-	P	H
		40.67	35.26	-4.74	40	44.3	22.4	0.77	32.21	100	0	P	H
		211.39	25.57	-17.93	43.5	39.01	17.05	1.73	32.22	-	-	P	H
		477.17	26.3	-19.7	46	31.23	24.27	2.73	31.93	-	-	P	H
		699.3	29.3	-16.7	46	29.69	27.95	3.34	31.68	-	-	P	H
		793.39	30.1	-15.9	46	30.31	27.81	3.57	31.59	-	-	P	H
		30	30.21	-9.79	40	35.05	26.8	0.65	32.29	-	-	P	V
		40.67	36.84	-3.16	40	45.88	22.4	0.77	32.21	100	110	P	V
		323.91	26.93	-19.07	46	36.19	20.61	2.21	32.08	-	-	P	V
		440.31	26.08	-19.92	46	30.56	24.86	2.61	31.95	-	-	P	V
		694.45	29.1	-16.9	46	29.75	27.7	3.33	31.68	-	-	P	V
		857.41	29.8	-16.2	46	29.36	28.24	3.73	31.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth v4.2 LE	62.50	0.391	2.558	3kHz

Bluetooth v4.2 LE

