

FCC Part 15C

Measurement and Test Report

For

Hui Zhou Gaoshengda Technology Co.,LTD

NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

FCC ID: :2AC23- WT31M2311A

FCC Rule(s):	<u>FCC Part 15.247</u>	
Product Description:	<u>WIFI Module</u>	
Tested Model:	<u>WT31M2311A</u>	
Report No.:	<u>FCC-ATL20161118886-4</u>	
Issued Date:	<u>2016-12-09</u>	
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TABLE OF CONTENTS

1. GENERAL INFORMATION.....3

 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....3

 1.2 TEST STANDARDS.....4

 1.3 TEST METHODOLOGY.....4

 1.4 EUT SETUP AND TEST MODE.....4

 1.5 TEST EQUIPMENT LIST AND DETAILS.....5

2. SUMMARY OF TEST RESULTS6

3. RF EXPOSURE7

 3.1 STANDARD APPLICABLE.....7

 3.2 TEST RESULT.....7

4. ANTENNA REQUIREMENT8

 4.1 STANDARD APPLICABLE.....8

 4.2 EVALUATION INFORMATION8

5. POWER SPECTRAL DENSITY9

 5.1 STANDARD APPLICABLE.....9

 5.2 TEST PROCEDURE.....9

 5.3 ENVIRONMENTAL CONDITIONS9

 5.4 SUMMARY OF TEST RESULTS/PLOTS9

6. 6DB BANDWIDTH12

 6.1 STANDARD APPLICABLE.....12

 6.2 TEST PROCEDURE.....12

 6.3 ENVIRONMENTAL CONDITIONS12

 6.4 SUMMARY OF TEST RESULTS/PLOTS12

7. RF OUTPUT POWER15

 7.1 STANDARD APPLICABLE.....15

 7.2 TEST PROCEDURE.....15

 7.3 TEST SETUP.....15

 7.4 ENVIRONMENTAL CONDITIONS15

 7.5 SUMMARY OF TEST RESULTS/PLOTS16

8. FIELD STRENGTH OF SPURIOUS EMISSIONS17

 8.1 STANDARD APPLICABLE.....17

 8.2 TEST PROCEDURE.....17

 8.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....18

 8.4 ENVIRONMENTAL CONDITIONS18

 8.5 SUMMARY OF TEST RESULTS/PLOTS19

9. OUT OF BAND EMISSIONS.....26

 9.1 STANDARD APPLICABLE.....26

 9.2 TEST PROCEDURE.....26

 9.3 ENVIRONMENTAL CONDITIONS27

 9.4 SUMMARY OF TEST RESULTS/PLOTS27

10. CONDUCTED EMISSIONS30

 10.1 TEST PROCEDURE.....30

 10.2 BASIC TEST SETUP BLOCK DIAGRAM.....30

 10.3 ENVIRONMENTAL CONDITIONS30

 10.4 TEST RECEIVER SETUP.....31

 10.5 SUMMARY OF TEST RESULTS/PLOTS31

 10.6 CONDUCTED EMISSIONS TEST DATA.....31

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Hui Zhou Gaoshengda Technology Co.,LTD
 Address of applicant: NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
 Manufacturer: Hui Zhou Gaoshengda Technology Co.,LTD
 Address of manufacturer: NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

General Description of EUT	
Product Name:	WIFI Module
Brand Name:	GSD
Model No.:	WT31M2311A
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth Version:	V4.1 (BLE mode)
Frequency Range:	2402-2480MHz
RF Output Power:	-3.1dBm (Conducted)
Data Rate:	25Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	PIFA Antenna
Antenna Gain:	3 dBm

1.2 Test Standards

The following report is prepared on behalf of the Hui Zhou Gaoshengda Technology Co.,LTD in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 v03r05 for digital transmission systems shall be performed also.

1.4 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	GFSK(BLE)	2402MHz, 2442MHz, 2480MHz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.0	Shielded	Without Core

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	T410	/

1.5 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2016-06-04	2017-06-03
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2016-06-04	2017-06-03
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-04	2017-06-03
Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
Amplifier	C&D	PAP-1G18	2002	2016-06-04	2017-06-03
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-04	2017-06-03
Horn Antenna	ETS	3117	00086197	2016-06-04	2017-06-03
Horn Antenna	ETS	3116B	00088203	2016-06-04	2017-06-03
Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-04	2017-06-03
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-04	2017-06-03
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2016-06-04	2017-06-03
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2016-06-04	2017-06-03
Power Sensor	Anritsu	MA2411B	1126022	2016-11-18	2017-11-17
Power Meter	Anritsu	ML2495A	1135009	2016-11-18	2017-11-17

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section.

4.2 Evaluation Information

This product has a PCB antenna, fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v03r05, the test method of power spectral density as below:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 Environmental Conditions

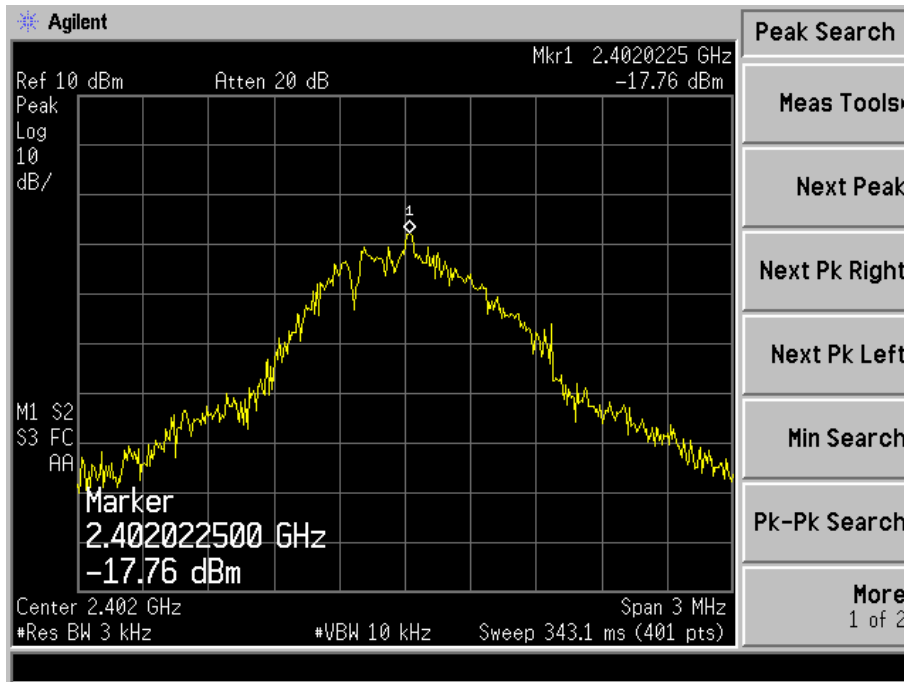
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

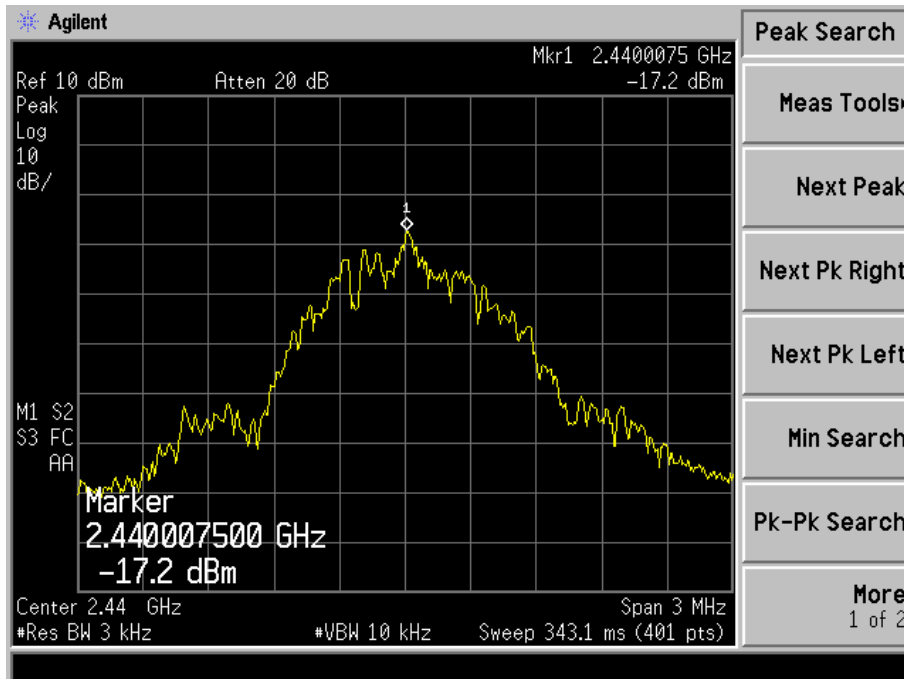
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
GFSK(BLE)	2402	-17.76	8
	2442	-17.20	8
	2480	-16.25	8

Please refer to the following test plots:

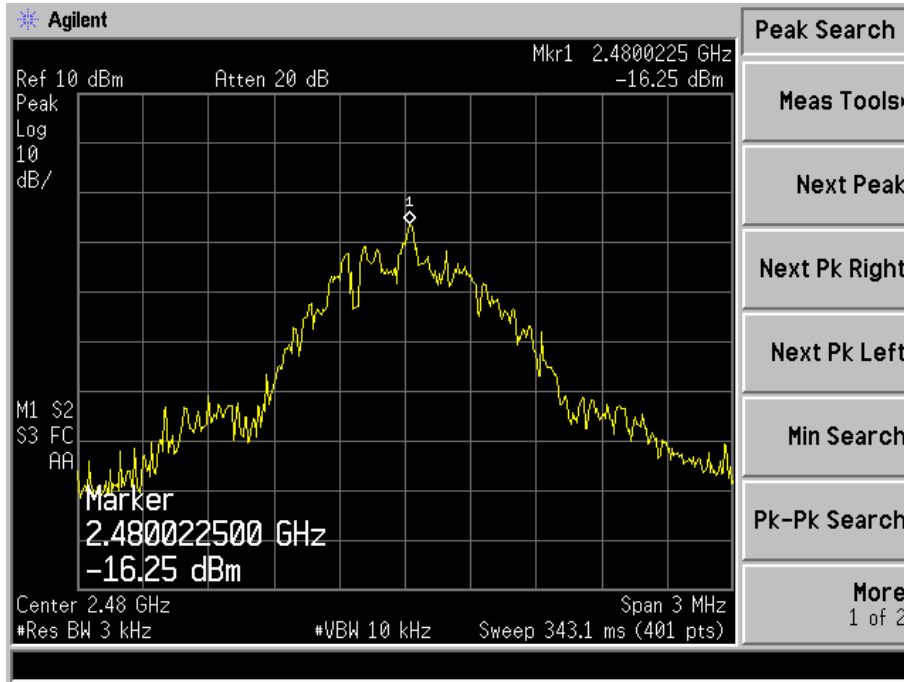
Low Channel



Middle Channel



High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

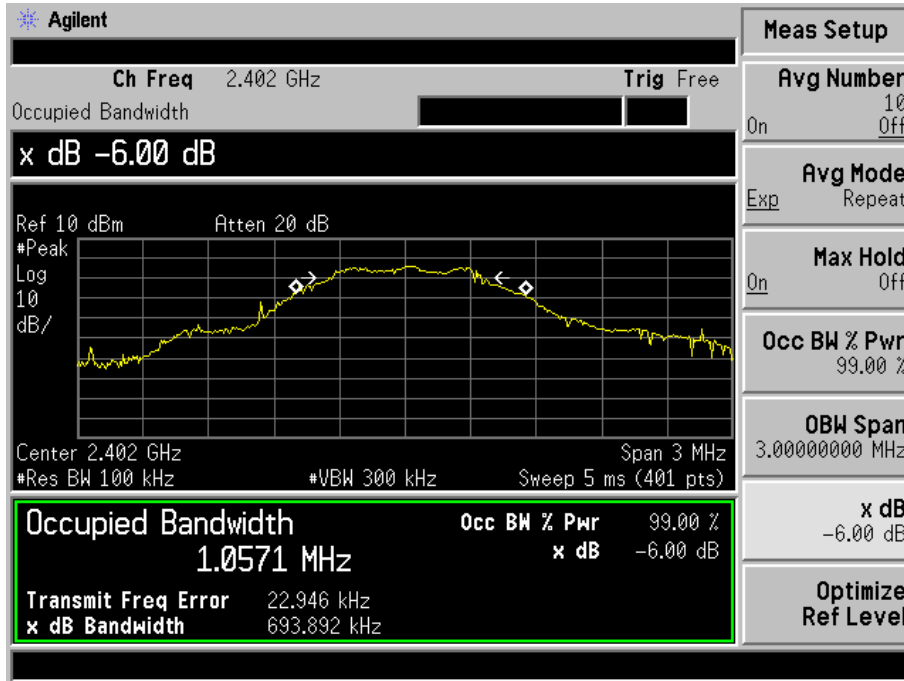
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

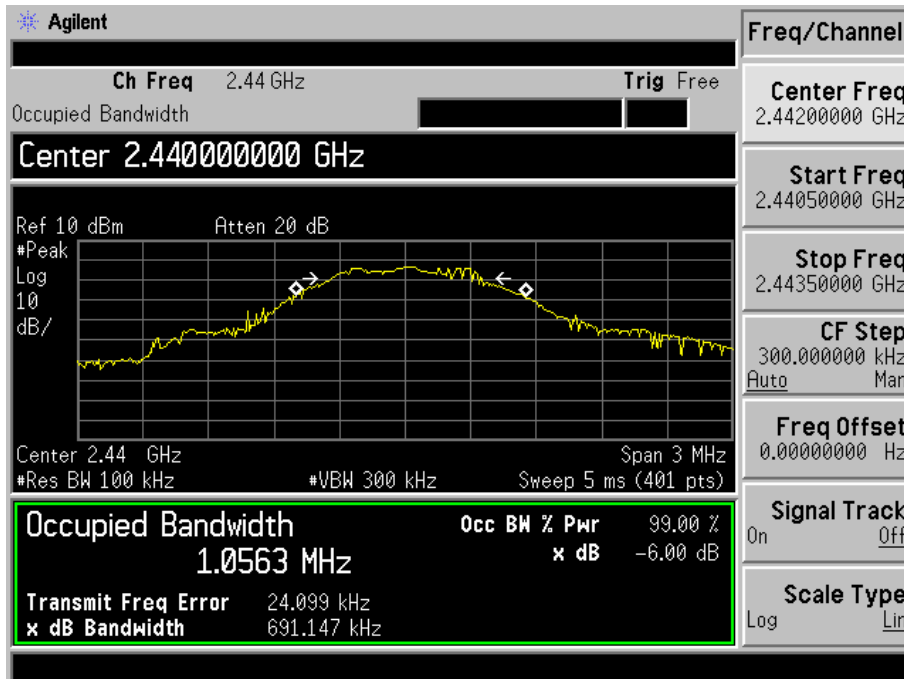
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
GFSK(BLE)	2402	693.892	1057.1	≥ 500
	2442	691.147	1056.3	≥ 500
	2480	691.219	1064.4	≥ 500

Please refer to the following test plots:

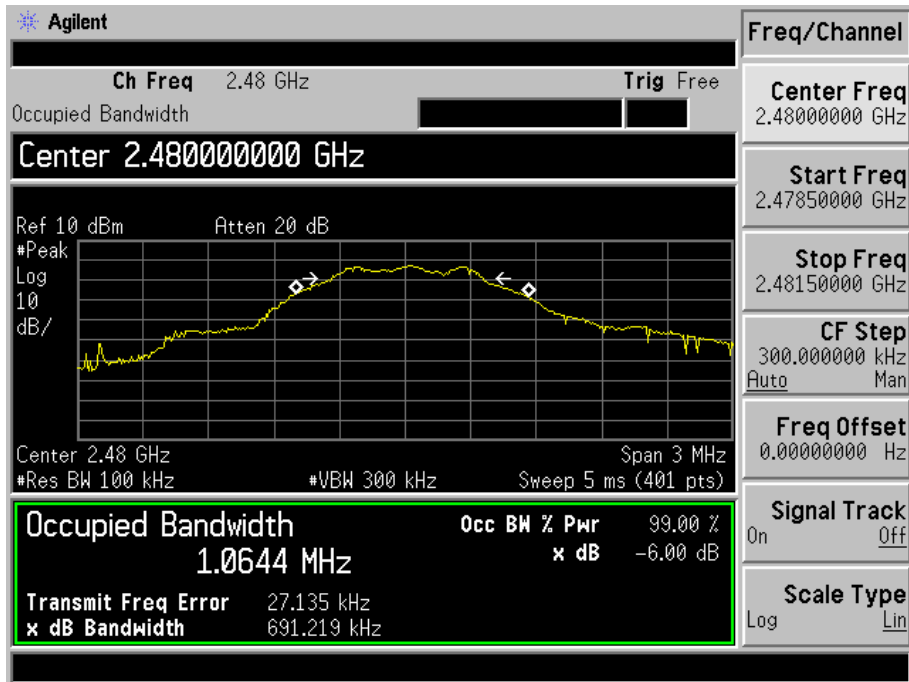
For BLE
Low Channel:



Middle Channel:



High Channel:



7. RF Output Power

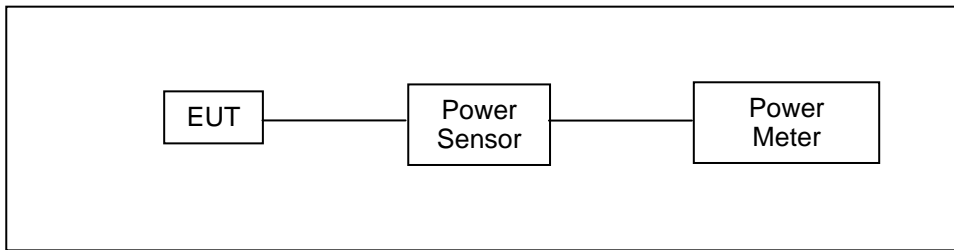
7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

The tests below are run with the EUT’s transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device’s antenna and connect the RF output port to power sensor.

7.3 Test Setup



7.4 Environmental Conditions

Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.5 Summary of Test Results/Plots

Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
GFSK(BLE)	2402	-3.1	0.49	1000
	2442	-4.0	0.4	1000
	2480	-3.7	0.42	1000

Note: the antenna gain of 0dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

8. Field Strength of Spurious Emissions

8.1 Standard Applicable

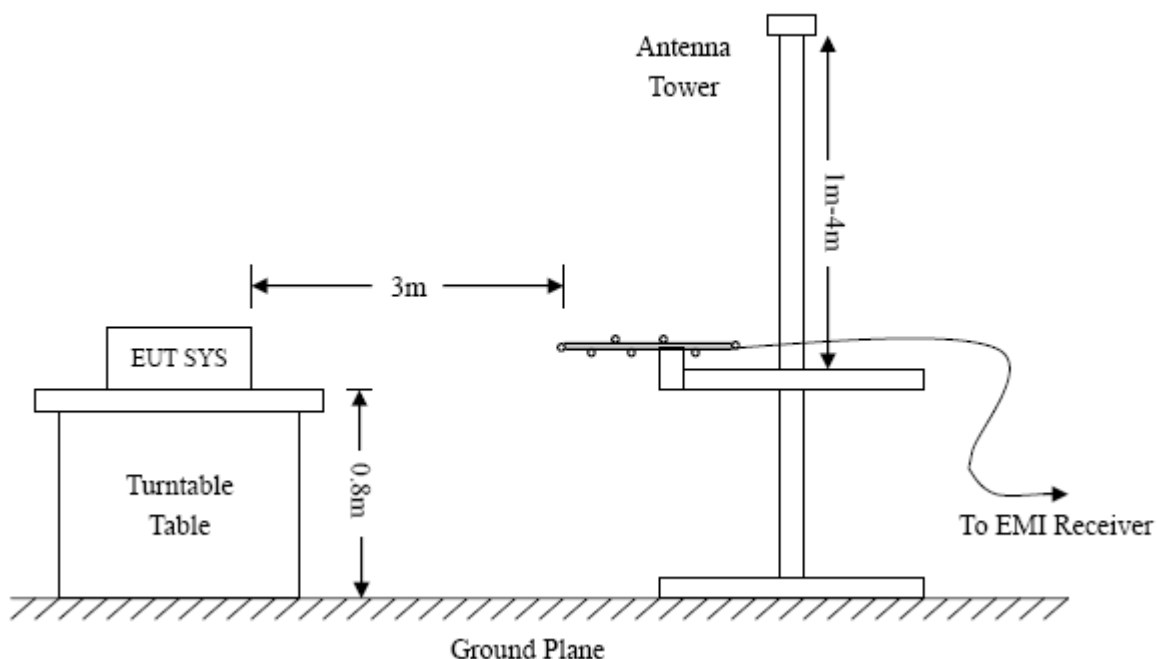
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

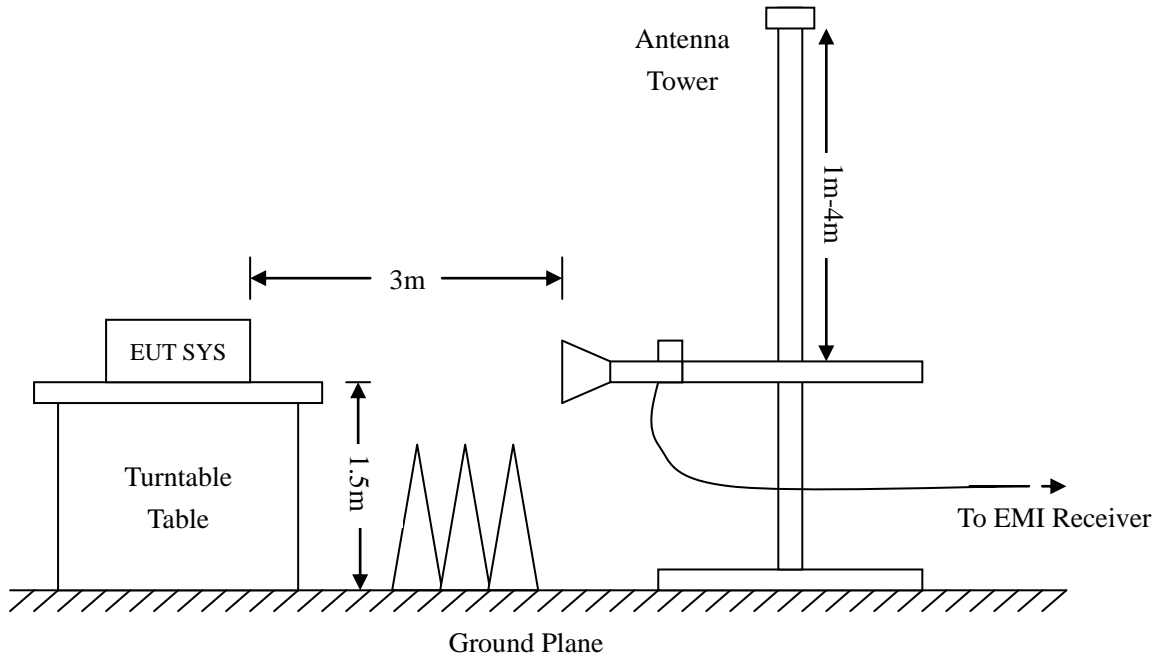
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

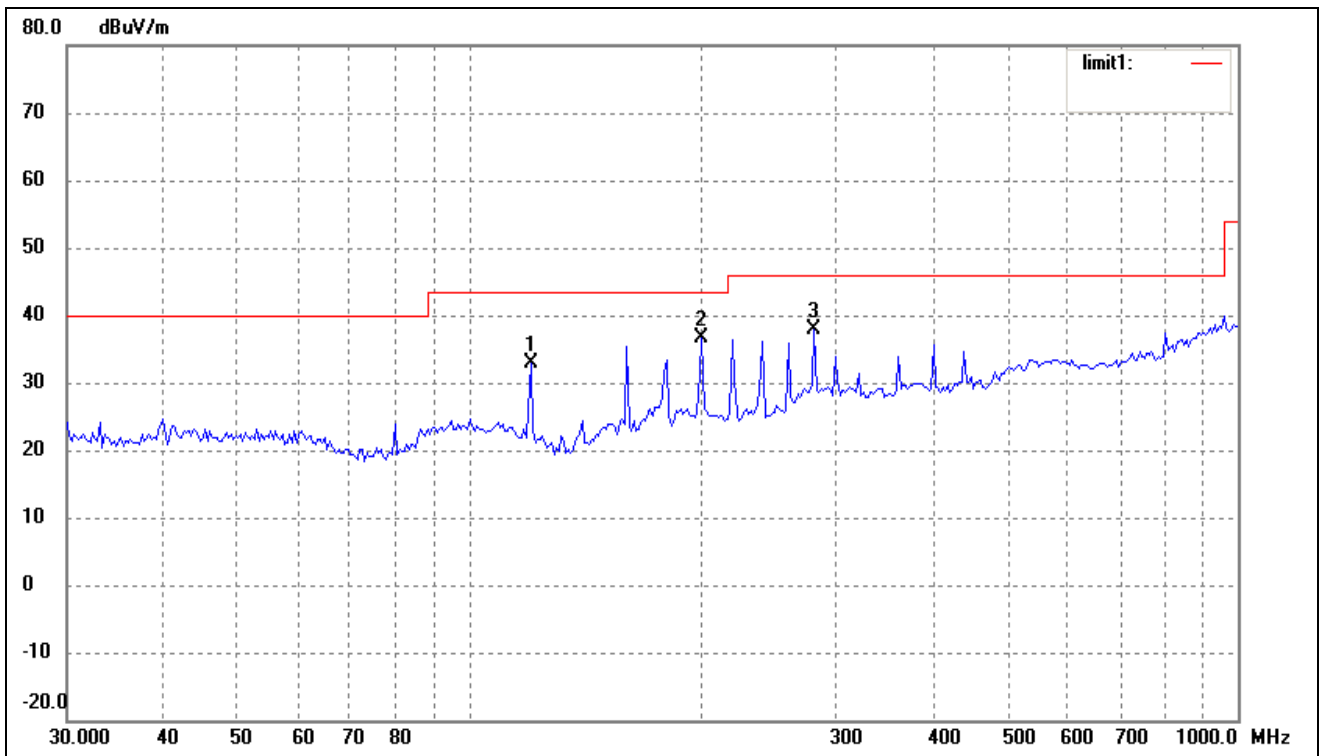
8.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

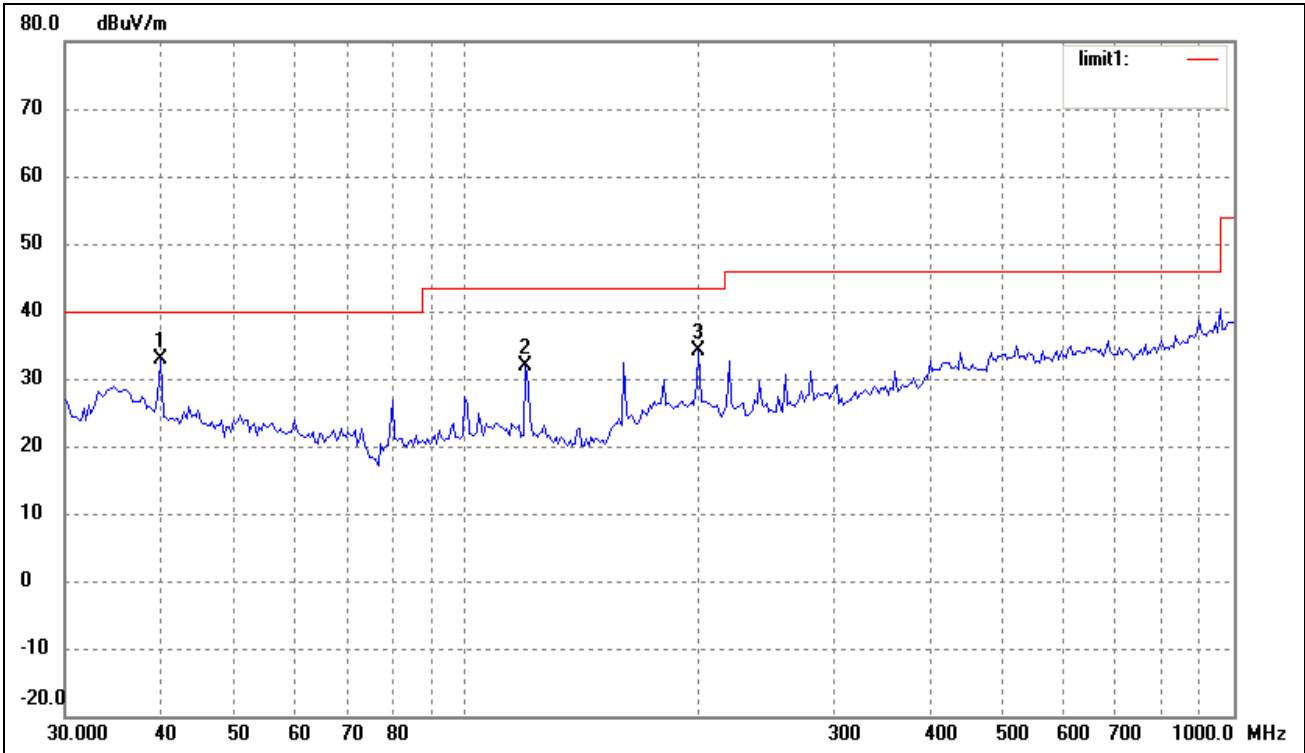
Plot of Radiated Emissions Test Data

EUT: 7.85" Tablet PC FIXO F1
 Tested Model: F1
 Operating Condition: Transmitting-Low channel (2402MHz)
 Comment: DC 3.7V Li-ion Battery
 Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	120.2766	27.02	5.91	32.93	43.50	-10.57	360	100	peak
2	200.6881	30.14	6.60	36.74	43.50	-6.76	0	200	peak
3	281.0075	28.36	9.53	37.89	46.00	-8.11	360	200	peak

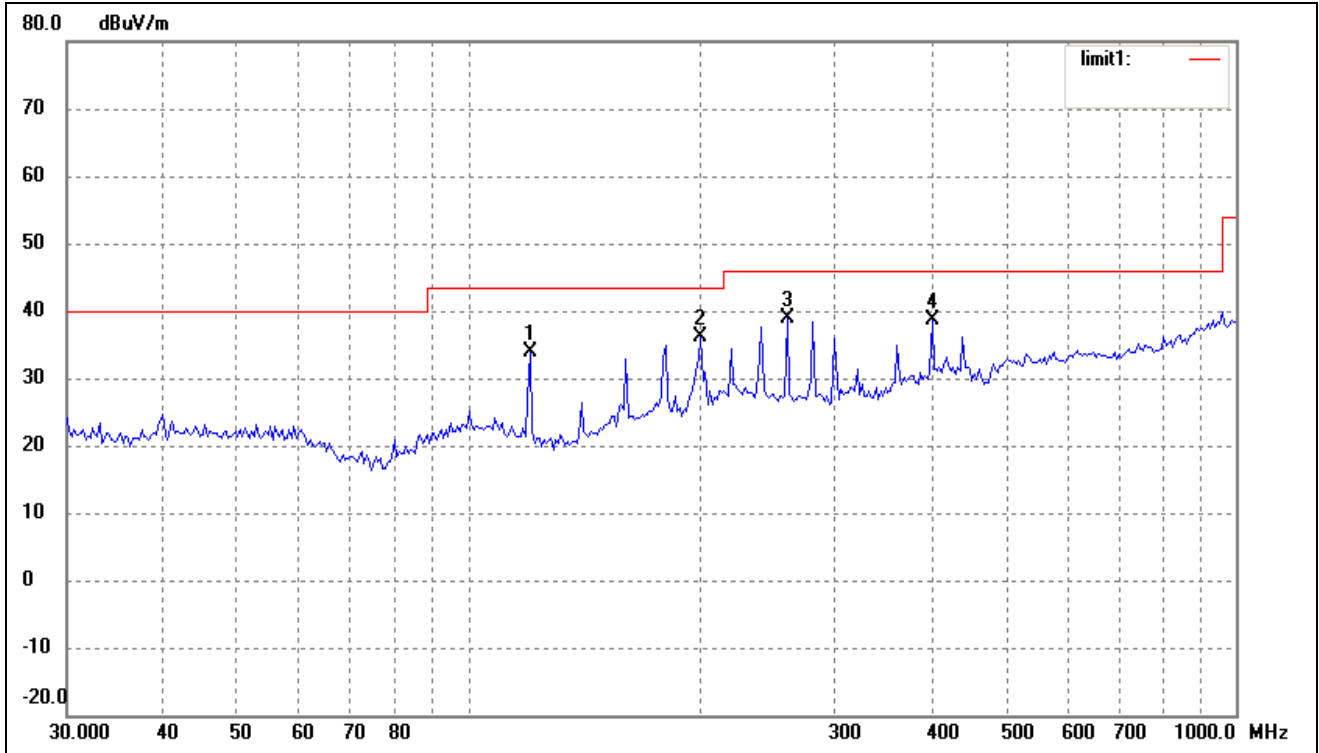
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.9942	24.79	8.14	32.93	40.00	-7.07	360	100	peak
2	119.4361	25.83	6.04	31.87	43.50	-11.63	0	200	peak
3	200.6881	27.46	6.60	34.06	43.50	-9.44	0	200	peak

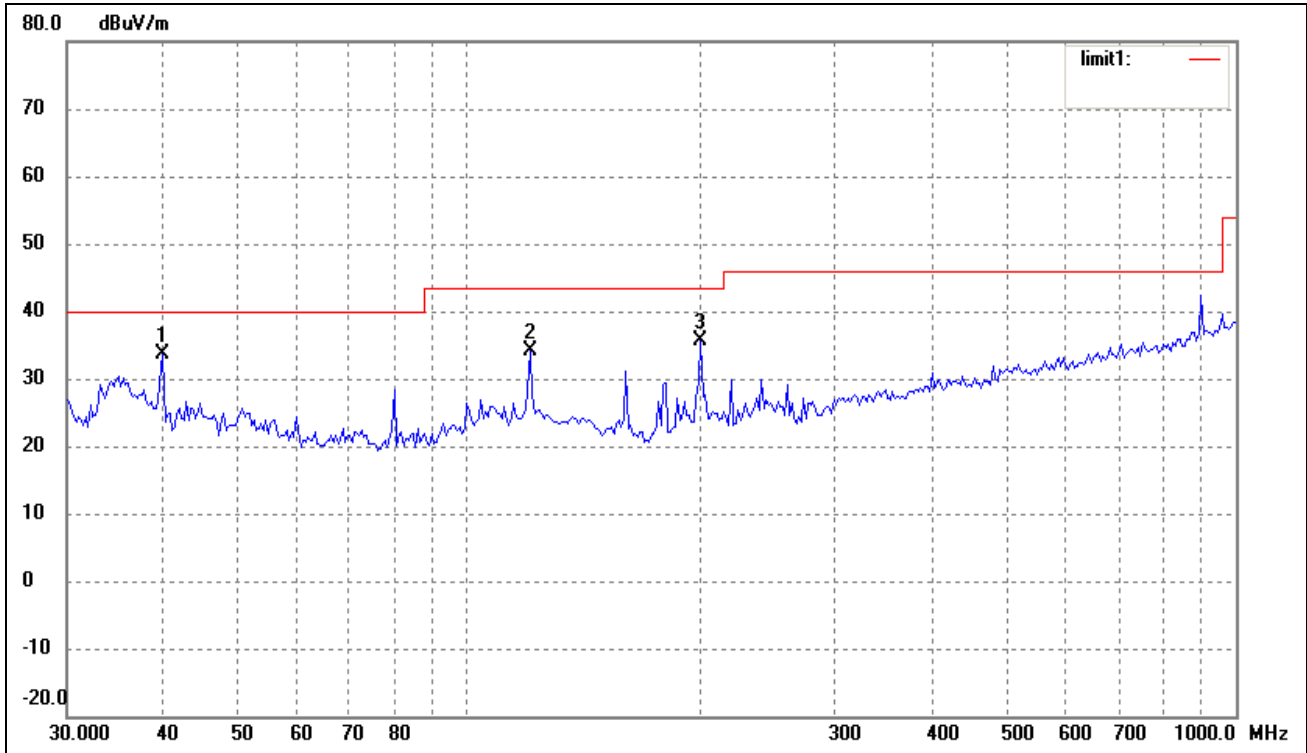
Plot of Radiated Emissions Test Data

EUT: 7.85" Tablet PC FIXO F1
 Tested Model: F1
 Operating Condition: Transmitting-Low channel (2442MHz)
 Comment: DC 3.7V Li-ion Battery
 Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	120.2766	28.02	5.91	33.93	43.50	-9.57	360	200	peak
2	200.6880	29.64	6.60	36.24	43.50	-7.26	0	300	peak
3	260.1444	29.87	8.95	38.82	46.00	-7.18	0	200	peak
4	401.8385	27.28	11.40	38.68	46.00	-7.32	360	200	peak

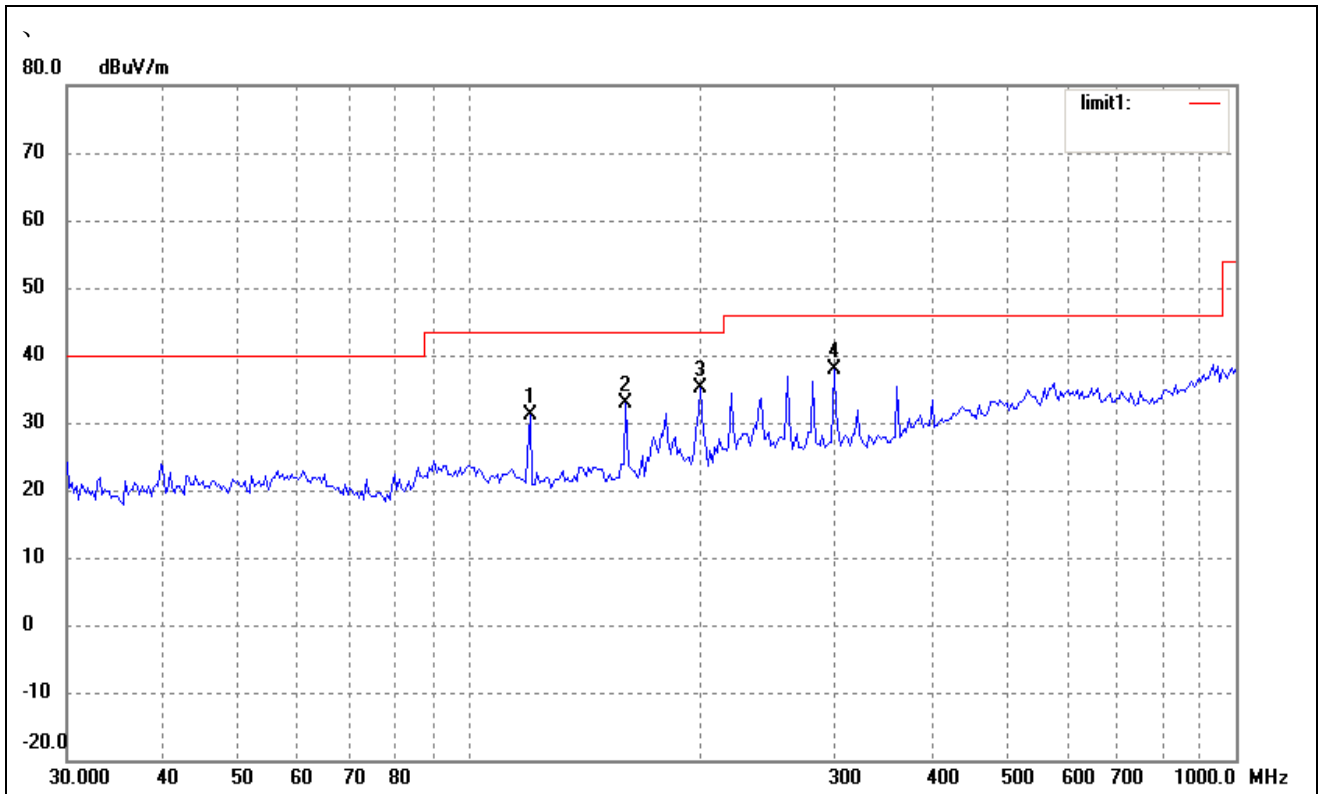
Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.9941	25.53	8.14	33.67	40.00	-6.33	360	200	peak
2	120.2766	28.28	5.91	34.19	43.50	-9.31	0	100	peak
3	200.6880	28.96	6.60	35.56	43.50	-7.94	360	200	peak

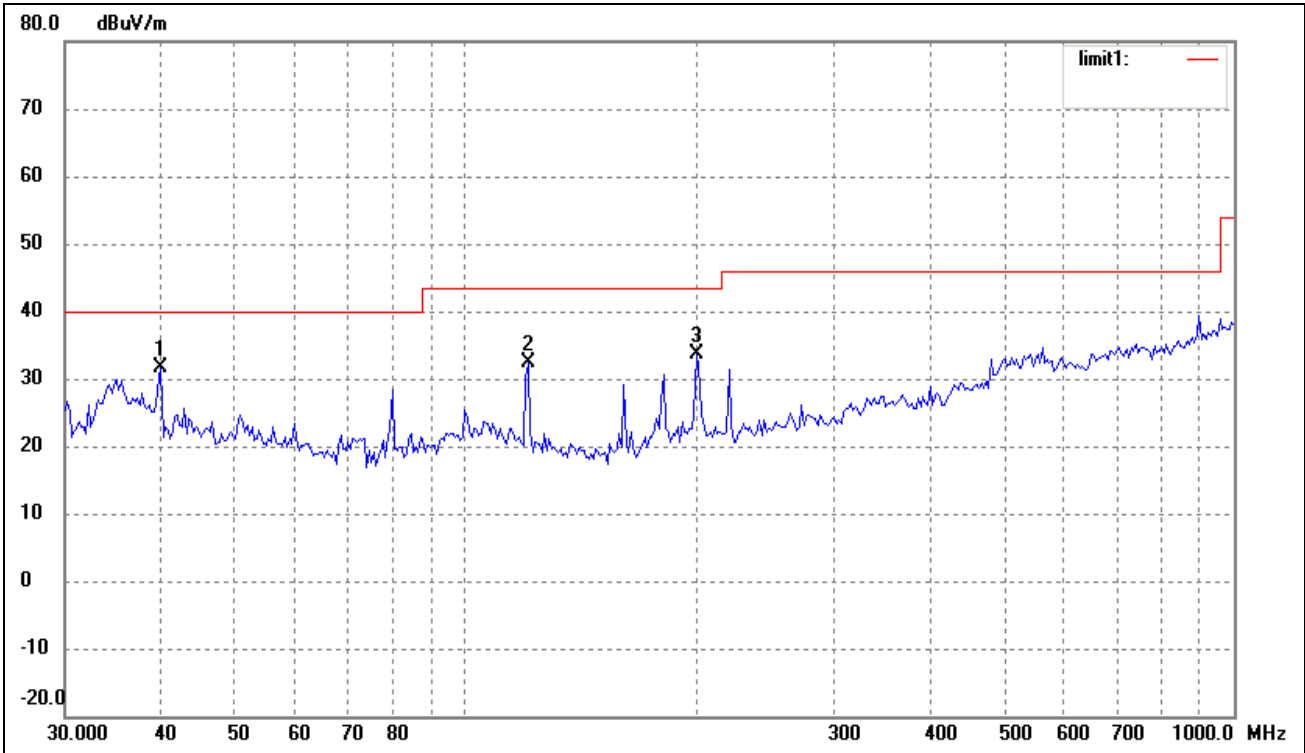
Plot of Radiated Emissions Test Data

EUT: 7.85" Tablet PC FIXO F1
 Tested Model: F1
 Operating Condition: Transmitting-Low channel (2480MHz)
 Comment: DC 3.7V Li-ion Battery
 Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	120.2766	25.13	5.91	31.04	43.50	-12.46	360	200	peak
2	160.3456	28.42	4.55	32.97	43.50	-10.53	360	100	peak
3	200.6880	28.64	6.60	35.24	43.50	-8.26	0	200	peak
4	299.3158	28.17	9.77	37.94	46.00	-8.06	0	200	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.9941	23.53	8.14	31.67	40.00	-8.33	360	200	peak
2	120.2766	26.51	5.91	32.42	43.50	-11.08	0	200	peak
3	199.2855	26.93	6.58	33.51	43.50	-9.99	360	200	peak

Spurious Emissions Above 1GHz

Transmitting: BLE mode:

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2402MHz							
4804	61.43	-3.59	57.84	74	-16.16	H	PK
4804	50.23	-3.59	46.64	54	-7.36	H	AV
7206	59.26	-0.52	58.74	74	-15.26	H	PK
7206	44.25	-0.52	43.73	54	-10.27	H	AV
4804	59.16	-3.59	55.57	74	-18.43	V	PK
4804	48.13	-3.59	44.54	54	-9.46	V	AV
7206	60.11	-0.52	59.59	74	-14.41	V	PK
7206	44.15	-0.52	43.63	54	-10.37	V	AV
Middle Channel-2441MHz							
4882	58.25	-3.49	54.76	74	-19.24	H	PK
4882	47.15	-3.49	43.66	54	-10.34	H	AV
7323	58.26	-0.47	57.79	74	-16.21	H	PK
7323	43.15	-0.47	42.68	54	-11.32	H	AV
4882	60.25	-3.49	56.76	74	-17.24	V	PK
4882	49.14	-3.49	45.65	54	-8.35	V	AV
7323	60.13	-0.47	59.66	74	-14.34	V	PK
7323	45.16	-0.47	44.69	54	-9.31	V	AV
High Channel-2480MHz							
4960	64.28	-3.41	60.87	74	-13.13	H	PK
4960	49.56	-3.41	46.15	54	-7.85	H	AV
7440	53.46	-0.42	53.04	74	-20.96	H	PK
7440	44.17	-0.42	43.75	54	-10.25	H	AV
4960	57.69	-3.41	54.28	74	-19.72	V	PK
4960	44.53	-3.41	41.12	54	-12.88	V	AV
7440	59.12	-0.42	58.70	74	-15.30	V	PK
7440	43.95	-0.42	43.53	54	-10.47	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074 D01 v03r05, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r05, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW \geq 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.3 Environmental Conditions

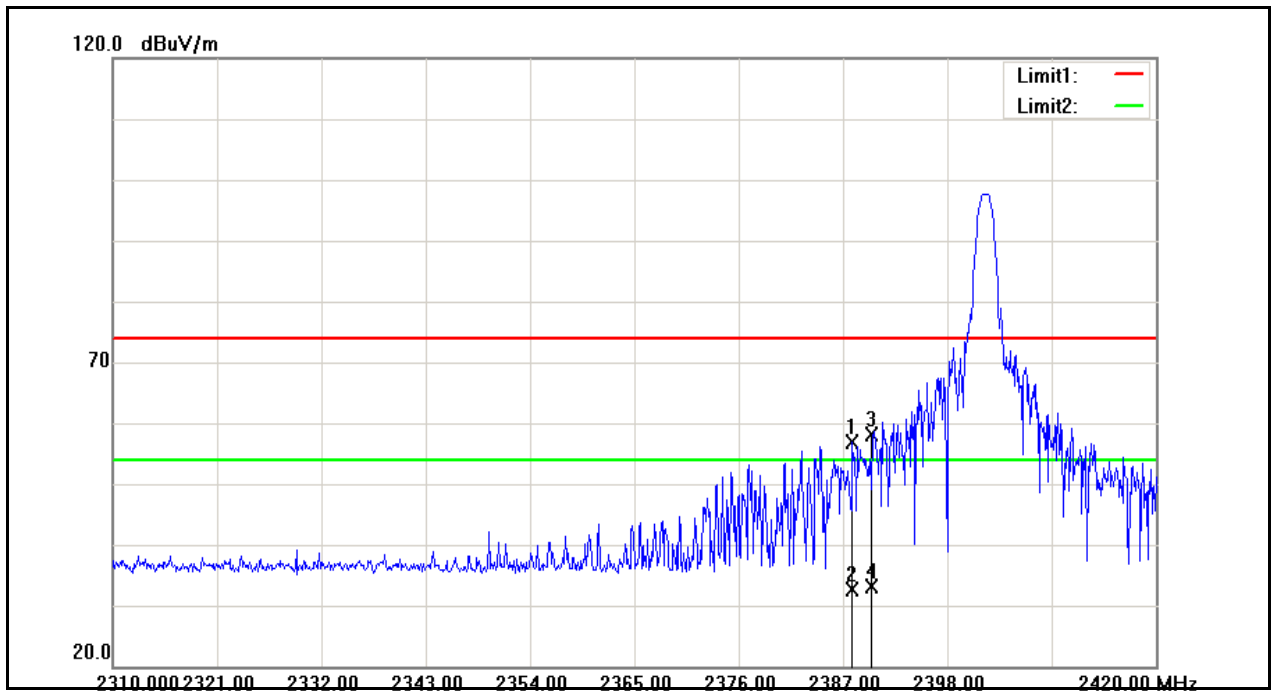
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Bandedge (Radiated)

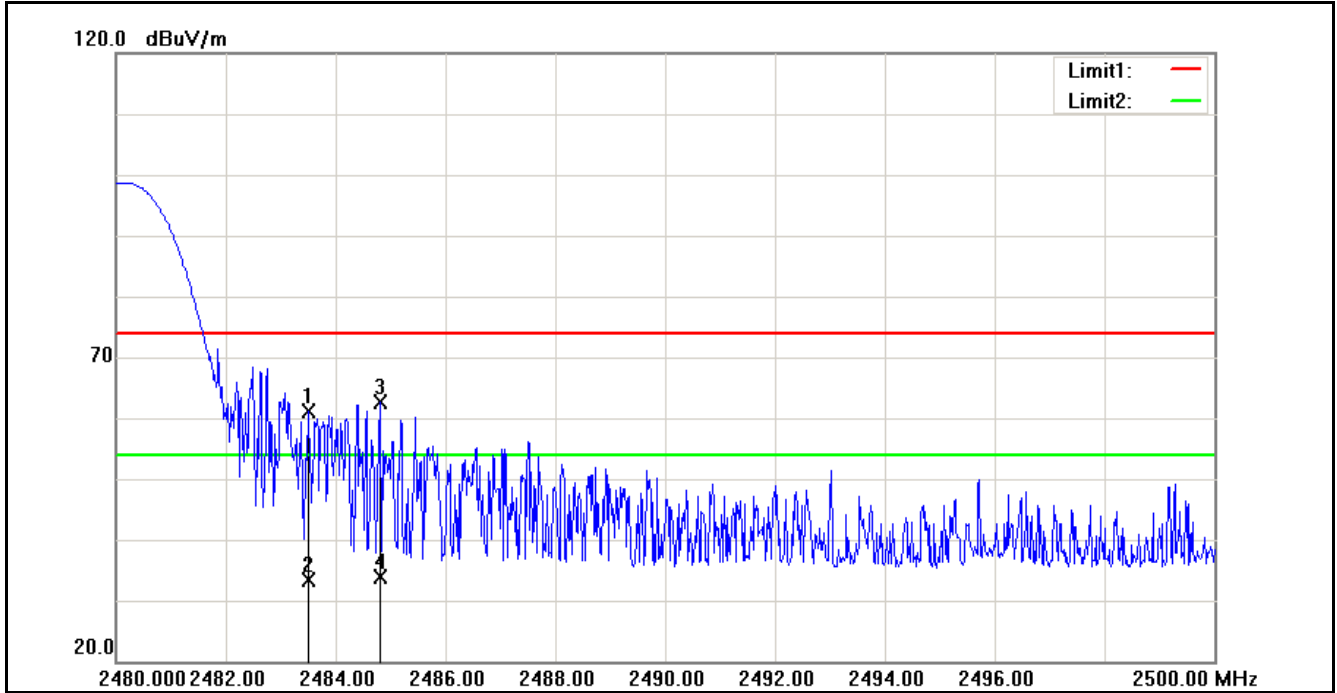
Lowest Bandedge-BLE

Horizontal (Worst case)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.990	57.10	-0.34	56.76	74.00	-17.24	peak
2	2387.990	32.90	-0.34	32.56	54.00	-21.44	AVG
3	2390.000	58.37	-0.34	58.03	74.00	-15.97	peak
4	2390.000	33.42	-0.34	33.08	54.00	-20.92	AVG

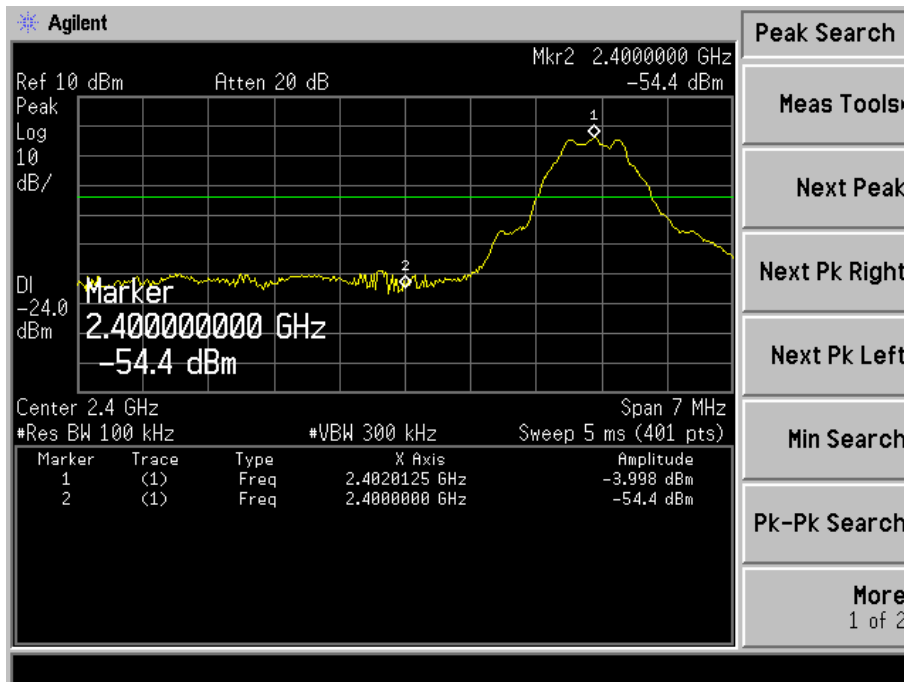
Highest Bandedge-BLE
Horizontal (Worst case)



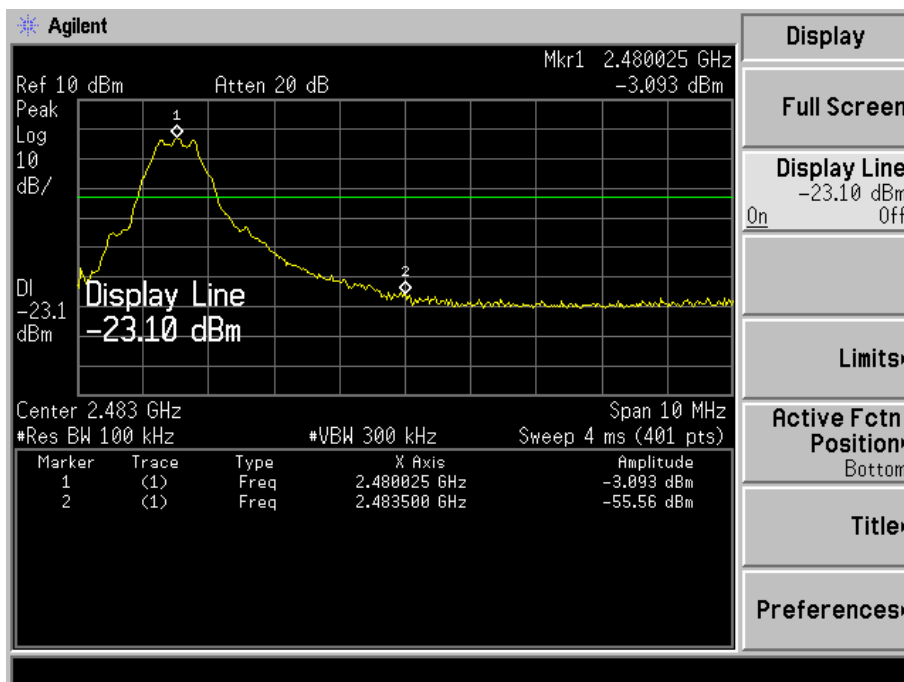
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.21	0.03	61.24	74.00	-12.76	peak
2	2483.500	33.23	0.03	33.26	54.00	-20.74	AVG
3	2484.820	62.47	0.04	62.51	74.00	-11.49	peak
4	2484.820	33.82	0.04	33.86	54.00	-20.14	AVG

Bandedge (Conducted)

Lowest



Highest



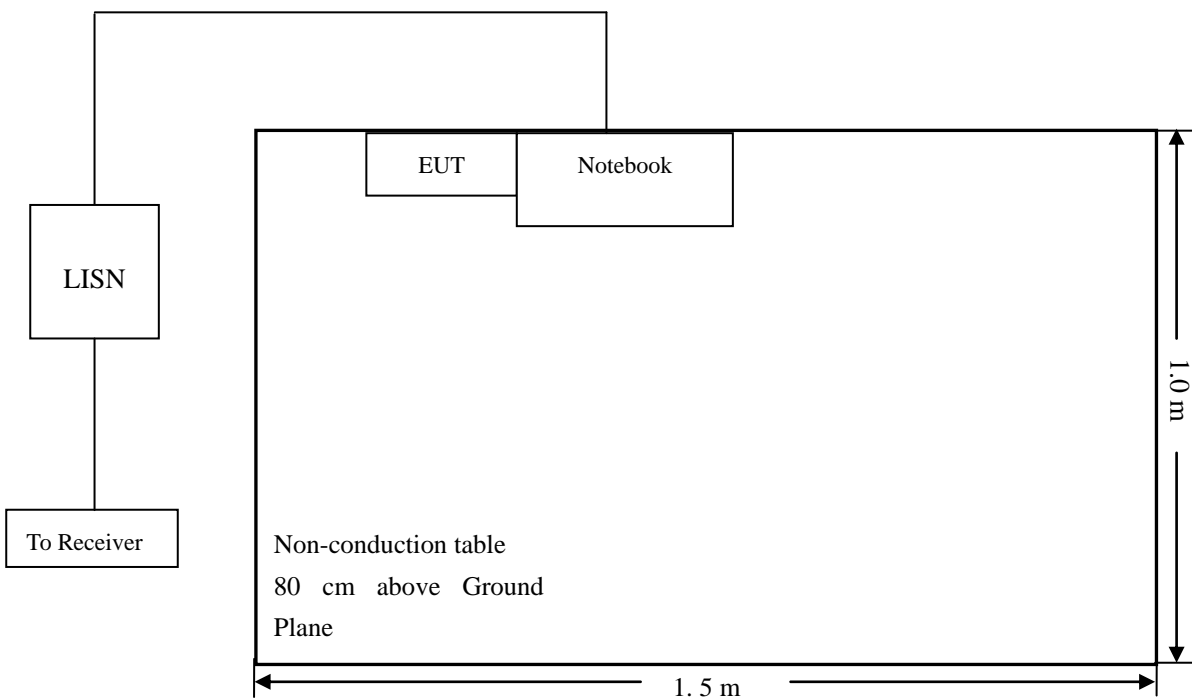
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
Stop Frequency..... 30 MHz
Sweep Speed Auto
IF Bandwidth..... 10 kHz
Quasi-Peak Adapter Bandwidth 9 kHz
Quasi-Peak Adapter Mode Normal

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

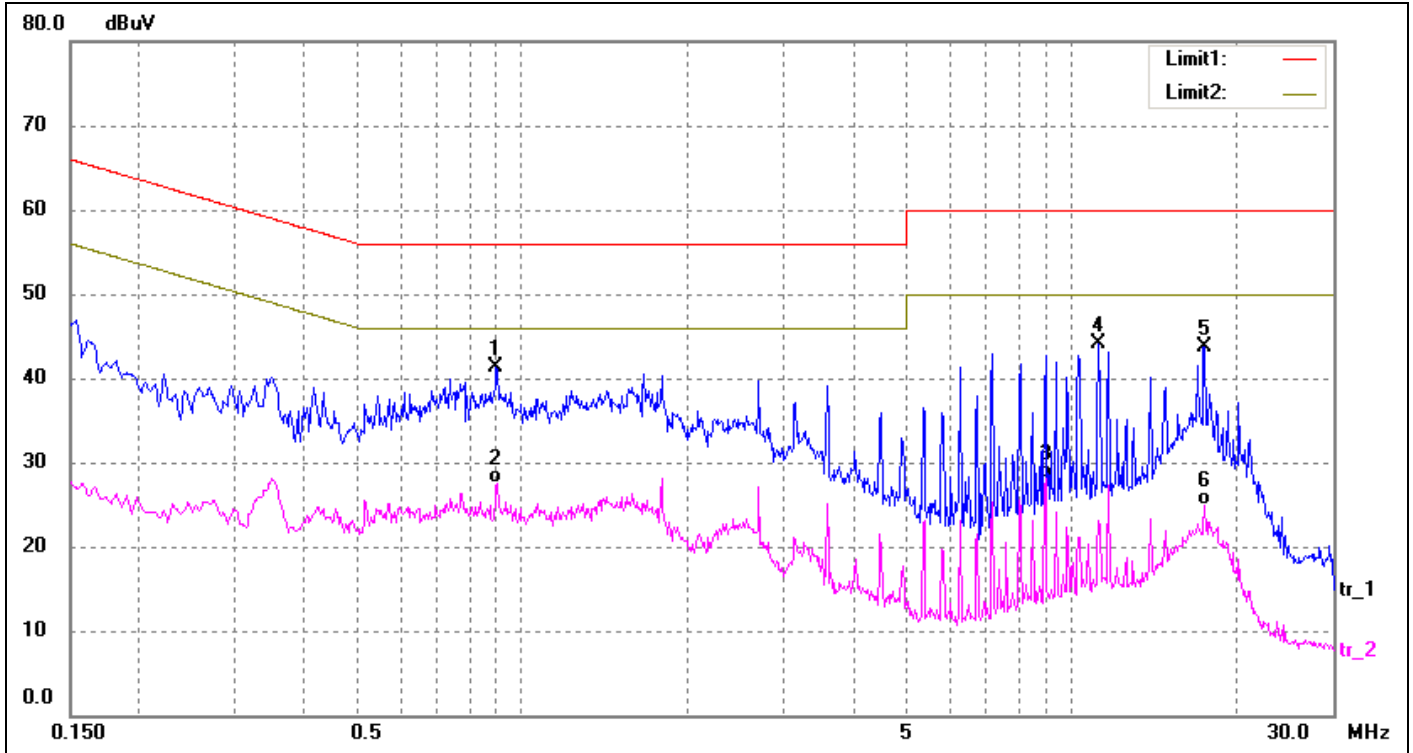
-14.65 dB at 0.8980 MHz in the **Neutral, Peak** detector, 0.15-30MHz

10.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

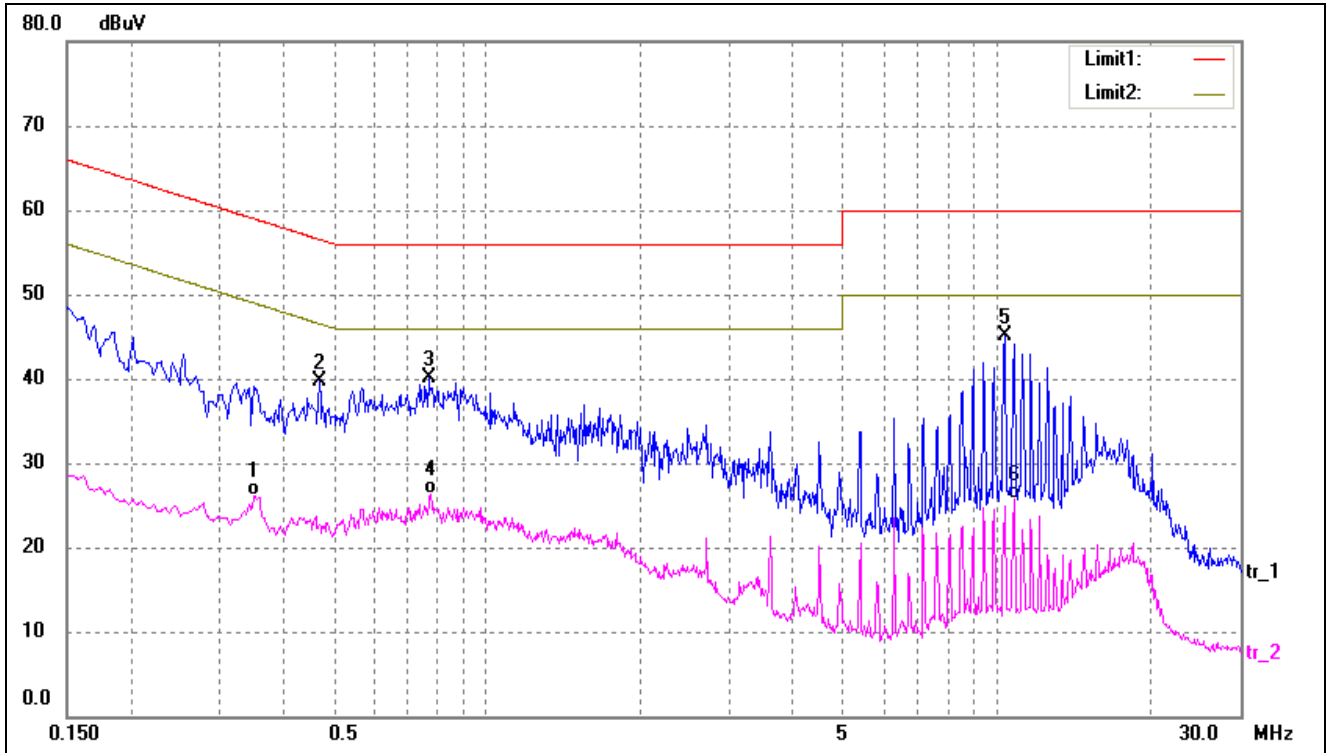
EUT: *WIFI Module*
 Tested Model: *WT31M2311A*
 Operating Condition: *Transmitting*
 Comment: *AC 120V/60Hz; Connected to PC*

Test Specification: *Neutral*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.8980	31.69	9.66	41.35	56.00	-14.65	peak
2	0.9020	17.88	9.66	27.54	46.00	-18.46	AVG
3	9.0019	17.70	10.34	28.04	50.00	-21.96	AVG
4	11.2539	33.79	10.37	44.16	60.00	-15.84	peak
5	17.5299	33.26	10.44	43.70	60.00	-16.30	peak
6	17.5299	14.45	10.44	24.89	50.00	-25.11	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3500	16.62	9.50	26.12	48.96	-22.84	AVG
2	0.4700	30.17	9.54	39.71	56.51	-16.80	peak
3	0.7700	30.39	9.62	40.01	56.00	-15.99	peak
4*	0.7780	16.66	9.63	26.29	46.00	-19.71	AVG
5	10.3539	34.84	10.36	45.20	60.00	-14.80	peak
6	10.8019	15.37	10.37	25.74	50.00	-24.26	AVG

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