FCC TEST REPORT

FCC ID: 2AWCO-EY06338

Product Name	:	Clever Cats
Model Name	:	EY06338
Brand Name	:	TTS-Group
Report No.	:	PTC20030405401E-FC01

Prepared for

Winning Appliances Manufactory Ltd

3A,Hop-Shi Factory Building,29-31 Lee Chung st,Chaiwan,Hong Kong

Prepared by

Precise Testing & Certification (Guangdong) Co., Ltd.

Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan,China

1TEST RESULT CERTIFICATION

Applicant's name	:	Winning Appliances Manufactory Ltd
Address	:	3A,Hop-Shi Factory Building,29-31 Lee Chung st,Chaiwan,Hong Kong
Manufacture's name	:	Winning Appliances Manufactory Ltd
Address	:	3A,Hop-Shi Factory Building,29-31 Lee Chung st,Chaiwan,Hong Kong
Product name	:	Clever Cats
Model name	:	EY06338
Brand Name	:	TTS-Group
Standards	:	FCC CFR47 Part 15 Section 15.249
Test procedure	:	ANSI C63.10:2013
Test Date	:	Apr. 09, 2020 to Apr.29, 2020
Date of Issue	:	Apr.30, 2020
Test Result	:	Pass

This device described above has been tested by PTC, 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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Testing Engineer

August Qiu

Authorized Signatory

Chris Du

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2 Test Summary

Test Items	Test Requirement	Result
AC Power Conducted Emission	15.207	PASS
20dB Bandwidth	15.215(C)	PASS
Band edge	15.249(d)	PASS
Field Strength of Fundamental Emissions	15.249(a)	PASS
Radiated Spurious Emissions	15.205(a) 15.249(a) (d)	PASS
Antenna Requirement	15.203	PASS

Remark:

N/A: Not Applicable

3 TEST FACILITY

Precise Testing & Certification (Guangdong) Co., Ltd.

Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan,China

FCC Registration Number: 371540

IC Registration Number: 12191A-1

4 General Information

4.1 General Description of E.U.T.

Product Name	:	Clever Cats
Model Name	:	EY06338
Operating frequency	:	2.402-2.480GHZ
Numbers of Channel	:	16
Antenna Type:	:	Wire Antenna
Antenna Gain:	:	0dBi
Type of Modulation	:	GFSK
Power supply	:	DC3.6V NI-MH Battery

4.2 Test Mode

Channel List:

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	07	2436	13	2463
02	2407	08	2440	14	2466
03	2414	09	2441	15	2473
04	2419	10	2445	16	2480
05	2422	11	2453	----	----
06	2426	12	2459	----	----

The 3 channels of lower, middle and higher were chosen for test.

Channel	Frequency(MHz)
01	2402
08	2440
16	2480

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.

For All Mode	Description	Modulation Type
Mode 1	CH01	GFSK
Mode 2	CH08	
Mode 3	CH16	

5 Equipment During Test

5.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
MXG Signal Analyzer	Agilent	N9020A	MY56070279	Sept. 28, 20
MIMO4TX-1	/	MIMO4TX	TW5451101	Sept. 28, 20
MXG Vector Signal Generator	Agilent	N5182A	MY50143410	Sept. 28, 20
MXG Analog Signal Generator	KEYSIGHT	N5181B	MY53050432	Sept. 28, 20

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Sept. 28, 20
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	Sept. 28, 20
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	Sept. 28, 20
Spectrum Analyzer	Agilent	E4407B	MY45109572	Sept. 28, 20
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	Sept. 28, 20
LOW NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	Sept. 28, 20

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Sept. 28, 20
Artificial Mains Network	Rohde&Schwarz	L2-16B	000WX31025	Sept. 28, 20
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	Sept. 28, 20

5.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10^{-6}
Bandwidth	± 1.5 x 10^{-6}
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

5.3 Description of Support Units

Equipment	Model No.	Series No.
Adapter	SK02T-0600100Z Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 6V, 1A	180925010 00531

6 Conducted Emission

Test Requirement:	:	FCC CFR 47 Part 15 Section 15.207
Test Method:	:	ANSI C63.10:2013
Test Result:	:	PASS
Frequency Range:	:	150kHz to 30MHz
Class/Severity:	:	Class B
Detector:	:	Peak for pre-scan (9kHz Resolution Bandwidth)

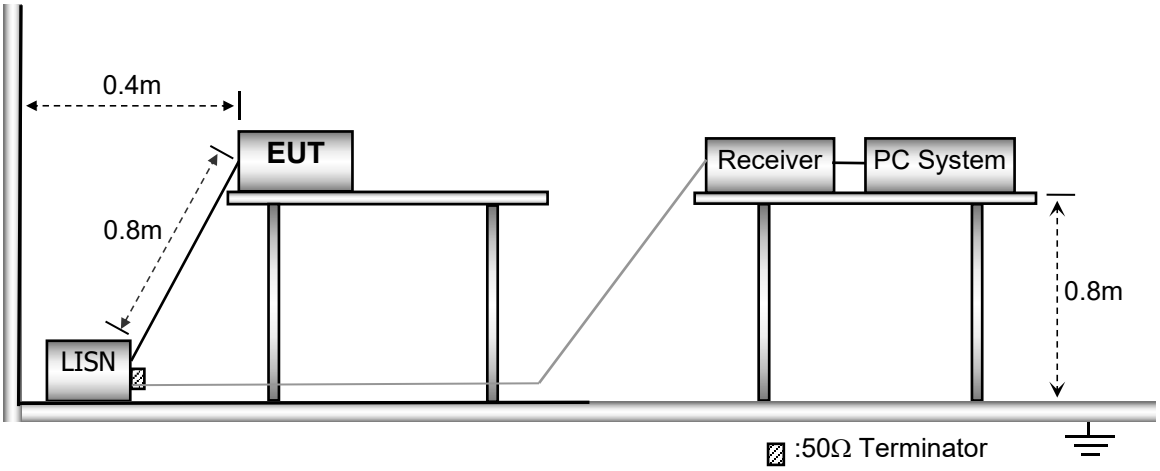
6.1 E.U.T. Operation

Operating Environment **:**

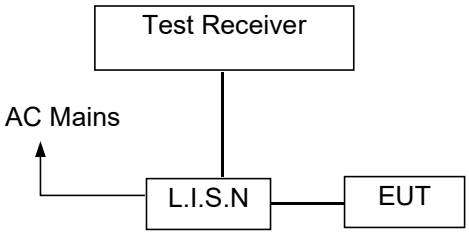
Temperature:	:	25.5 °C
Humidity:	:	51 % RH
Atmospheric Pressure:	:	101.2kPa
EUT Operation **:**	:	Refer to section 3.3
Test Voltage	:	AC 120V/60Hz

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10: 2013



6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure:

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

6.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:
1. The lower limit shall apply at the transition frequencies
2.The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

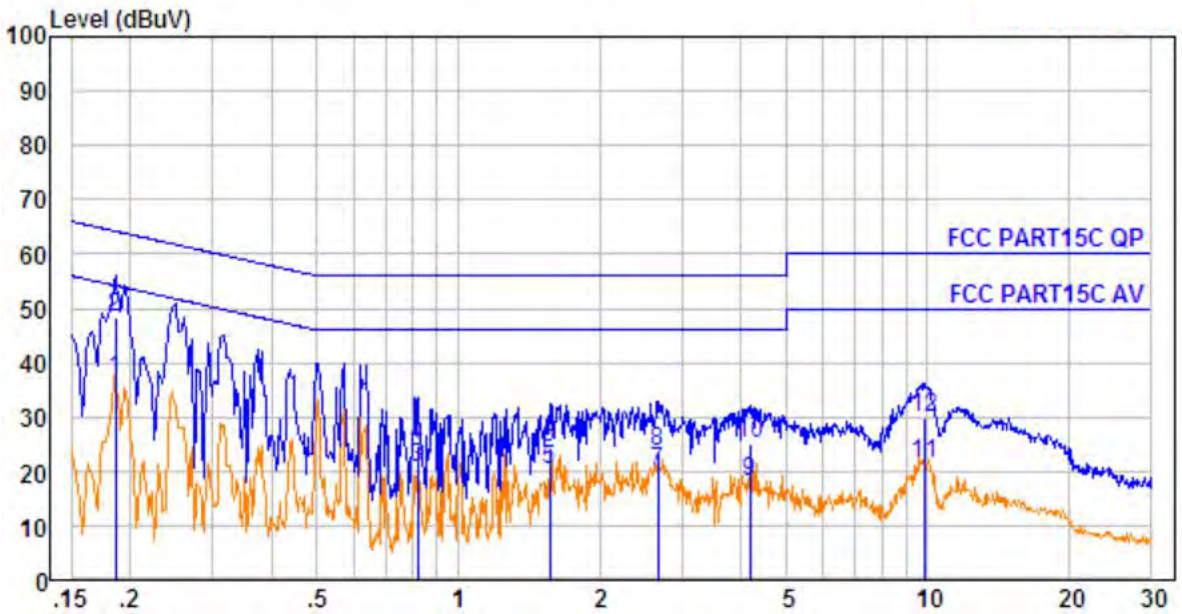
6.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.7 Conducted Emission Test Result

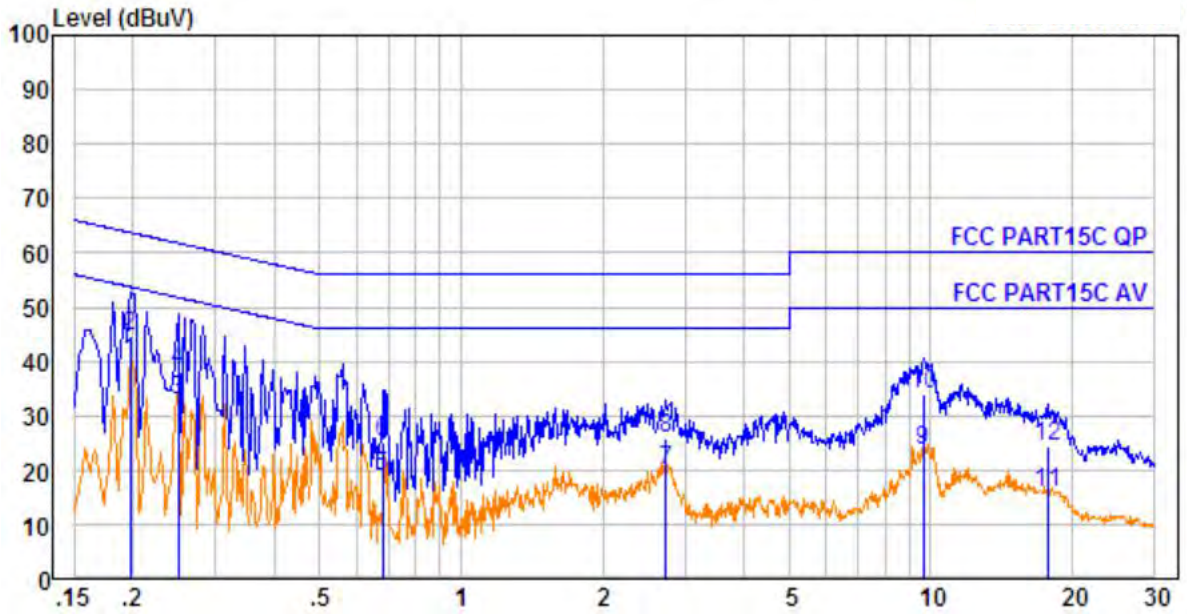
Pass
Please find the following pages.

Line -120V/60Hz:



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBµV	Emission Level dBµV	Limit dBµV	Over Limit dB	Remark
1.	0.186	0.26	9.59	27.19	37.04	54.20	-17.16	Average
2.	0.186	0.26	9.59	38.49	48.34	64.20	-15.86	QP
3.	0.822	0.45	9.61	10.57	20.63	46.00	-25.37	Average
4.	0.822	0.45	9.61	14.56	24.62	56.00	-31.38	QP
5.	1.568	0.47	9.61	10.27	20.35	46.00	-25.65	Average
6.	1.568	0.47	9.61	14.12	24.20	56.00	-31.80	QP
7.	2.664	0.47	9.62	9.93	20.02	46.00	-25.98	Average
8.	2.664	0.47	9.62	13.47	23.56	56.00	-32.44	QP
9.	4.180	0.48	9.65	7.90	18.03	46.00	-27.97	Average
10.	4.180	0.48	9.65	15.01	25.14	56.00	-30.86	QP
11.	9.861	0.56	9.77	10.99	21.32	50.00	-28.68	Average
12.	9.861	0.56	9.77	19.56	29.89	60.00	-30.11	QP

Neutral -120V/60Hz:



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBµV	Emission Level dBµV	Limit dBµV	Over Limit dB	Remark
1.	0.198	0.28	9.61	29.91	39.80	53.71	-13.91	Average
2.	0.198	0.28	9.61	34.71	44.60	63.71	-19.11	QP
3.	0.249	0.33	9.61	22.77	32.71	51.78	-19.07	Average
4.	0.249	0.33	9.61	28.47	38.41	61.78	-23.37	QP
5.	0.679	0.44	9.64	8.72	18.80	46.00	-27.20	Average
6.	0.679	0.44	9.64	14.91	24.99	56.00	-31.01	QP
7.	2.736	0.47	9.65	9.82	19.94	46.00	-26.06	Average
8.	2.736	0.47	9.65	15.63	25.75	56.00	-30.25	QP
9.	9.654	0.56	9.80	13.12	23.48	50.00	-26.52	Average
10.	9.654	0.56	9.80	23.49	33.85	60.00	-26.15	QP
11.	17.755	0.46	9.87	5.68	16.01	50.00	-33.99	Average
12.	17.755	0.46	9.87	13.92	24.25	60.00	-35.75	QP

7 Field Strength of Fundamental Emission and Radiated Spurious Emissions

Test Requirement: : FCC CFR47 Part 15 Section 15.209 & 15.249

Test Method: : ANSI C63.10:2013

Test Result: : PASS

Measurement Distance: : 3m

Limit: : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Note: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

The field strength of emission from intentional radiators operated within these frequency bands shall comply with the following:

Frequency(MHz)	Filed Strength of Fundamental(at 3m)		Filed Strength of Harmonics(at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
902-928	114	94	74.0	54.0
2400-2483.5	114	94	74.0	54.0
5725-5875	114	94	74.0	54.0
24000-24250	128	108	88.0	68.0

7.1 EUT Operation

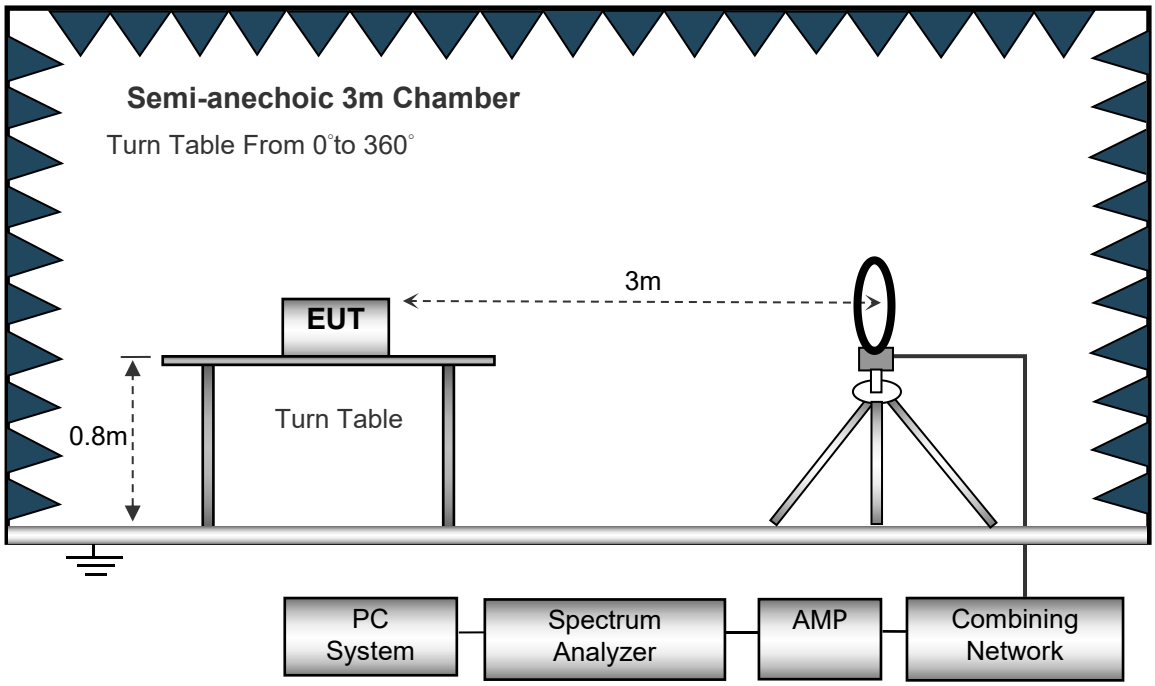
Operating Environment :

Temperature:	:	23.5 °C
Humidity:	:	51.1 % RH
Atmospheric Pressure:	:	101.2kPa
EUT Operation :	:	Refer to section 3.3
Test Voltage	:	DC 3.6V

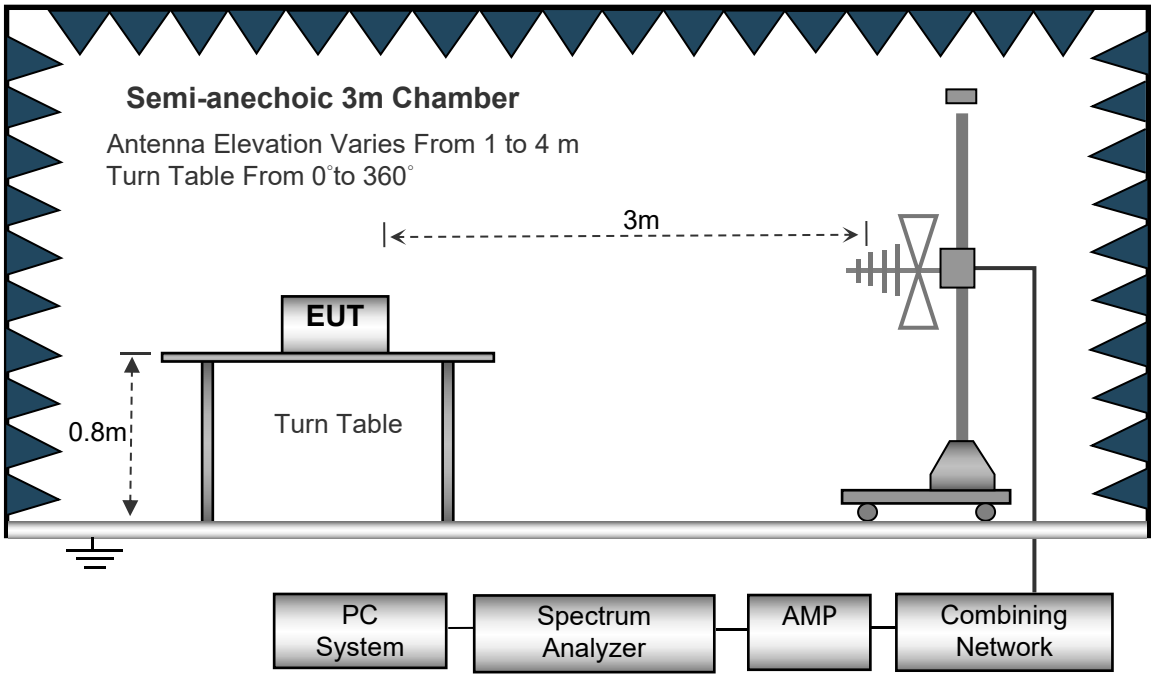
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

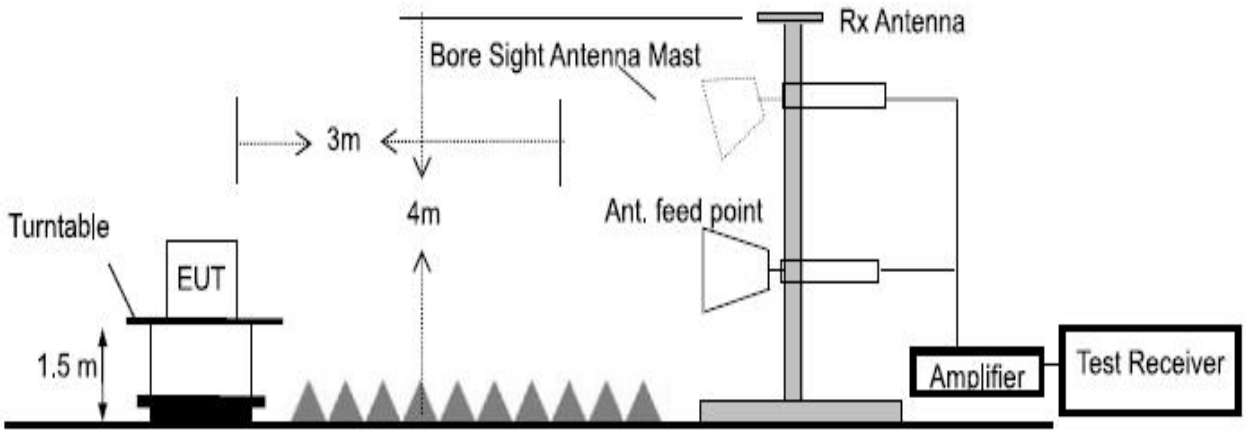
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / *10Hz* for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2013.

2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.

3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) 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 to comply with the guidelines.

5. Set to the maximum power setting and enable the EUT transmit continuously.

6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.

7. Test Procedure of measurement (For Above 1GHz):

1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).

2) Change the antenna polarization and repeat 1) with vertical polarization.

3) Make a hardcopy of the spectrum.

4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.

5) Change the analyser mode to Clear/ Write and found the cone of emission.

6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.

7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.

8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.

7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

7.5 Summary of Test Results

Test Frequency: Below 30MHz

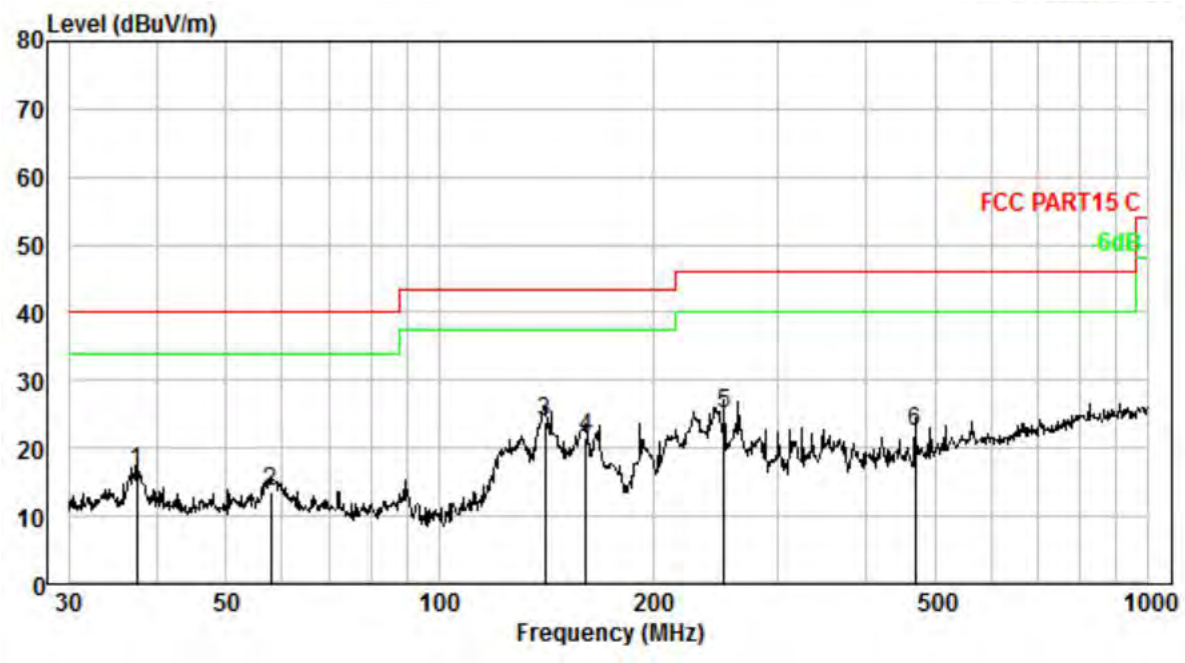
The measurements were more than 20 dB below the limit and not reported.

The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Test Frequency: 30MHz ~ 1GHz

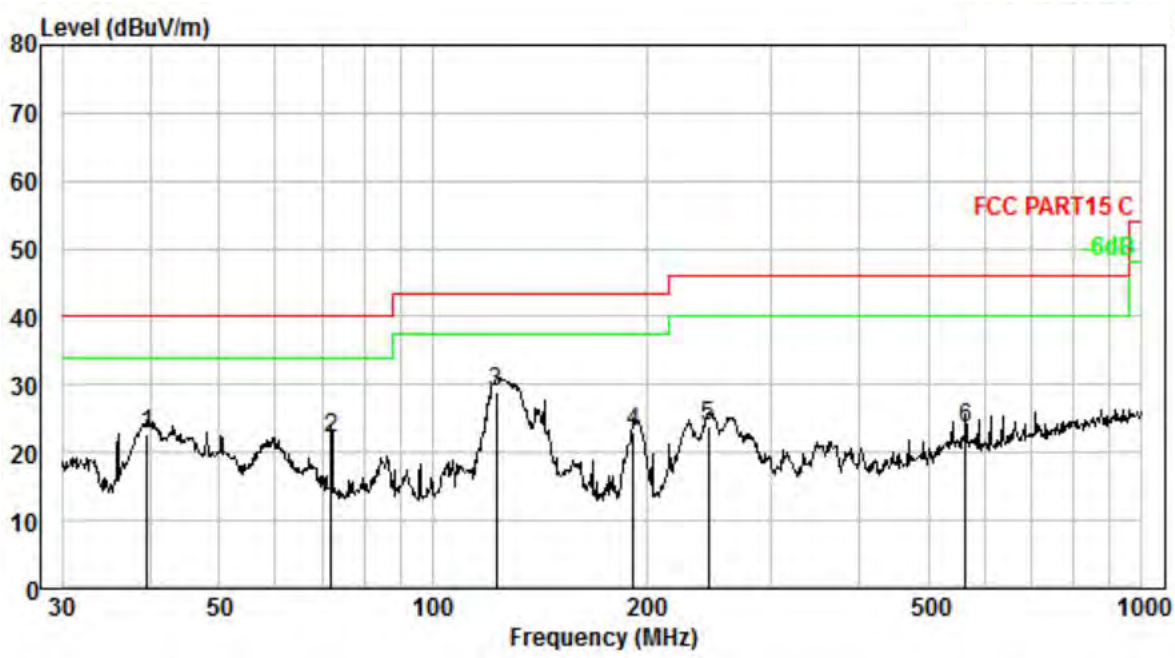
Remark: worst case is link model,only the worst data were reported.

Test plot for Horizontal: Link



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	37.416	1.58	12.15	32.80	29.90	16.63	40.00	-23.37	QP
2.	57.796	2.33	11.87	29.30	29.93	13.57	40.00	-26.43	QP
3.	140.835	3.86	13.34	36.79	30.01	23.98	43.50	-19.52	QP
4.	160.909	4.09	14.02	33.47	30.02	21.56	43.50	-21.94	QP
5.	252.063	4.86	12.53	37.84	30.20	25.03	46.00	-20.97	QP
6.	468.876	5.93	16.37	31.00	30.84	22.46	46.00	-23.54	QP

Test plot for Vertical: link



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	39.576	1.68	12.11	38.96	29.91	22.84	40.00	-17.16	QP
2.	71.832	2.70	9.84	39.52	29.96	22.10	40.00	-17.90	QP
3.	122.834	3.63	12.20	43.18	30.00	29.01	43.50	-14.49	QP
4.	191.745	4.39	11.60	37.05	30.04	23.00	43.50	-20.50	QP
5.	245.090	4.81	12.37	36.91	30.18	23.91	46.00	-22.09	QP
6.	564.639	6.25	18.56	29.88	30.97	23.72	46.00	-22.28	QP

Above 1000MHz-10th Harmonics:

	Freq. (MHz)	Receiver Reading (dBμV)	Detector (PK/QP/Ave)	Polar (H/V)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
Lower Channel 2402MHz	2402	86.25	PK	H	13.85	100.10	114	-13.90	Pass
	2402	67.96	Ave	H	13.85	81.81	94	-12.19	Pass
	4804	47.32	PK	H	19.33	66.65	74	-7.35	Pass
	4804	24.27	Ave	H	19.33	43.60	54	-10.40	Pass
	2402	85.37	PK	V	13.85	99.22	114	-14.78	Pass
	2402	67.42	Ave	V	13.85	81.27	94	-12.73	Pass
	4804	46.66	PK	V	19.33	65.99	74	-8.01	Pass
	4804	25.51	Ave	V	19.33	44.84	54	-9.16	Pass
Middle Channel 2440MHz	2440	85.28	PK	H	13.94	99.22	114	-14.78	Pass
	2440	67.13	Ave	H	13.94	81.07	94	-12.93	Pass
	4880	45.74	PK	H	19.43	65.17	74	-8.83	Pass
	4880	27.55	Ave	H	19.43	46.98	54	-7.02	Pass
	2440	86.02	PK	V	13.94	99.96	114	-14.04	Pass
	2440	68.35	Ave	V	13.94	82.29	94	-11.71	Pass
	4880	46.06	PK	V	19.43	65.49	74	-8.51	Pass
	4880	26.34	Ave	V	19.43	45.77	54	-8.23	Pass
Upper Channel 2480MHz	2480	85.73	PK	H	14.02	99.75	114	-14.25	Pass
	2480	67.37	Ave	H	14.02	81.39	94	-12.61	Pass
	4960	43.23	PK	H	19.51	62.74	74	-11.26	Pass
	4960	25.76	Ave	H	19.51	45.27	54	-8.73	Pass
	2480	84.89	PK	V	14.02	98.91	114	-15.09	Pass
	2480	68.33	Ave	V	14.02	82.35	94	-11.65	Pass
	4960	42.52	PK	V	19.51	62.03	74	-11.97	Pass
	4960	25.26	Ave	V	19.51	44.77	54	-9.23	Pass

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit

Other harmonics emissions are lower than 20dB below the allowable limit.

8 BAND EDGE EMISSION

8.1 TEST PROCEDURE

The EUT was placed on a styrofoam table which is 1.5m above ground plane.

The measurement procedure at the ban edges was simplified by performing the measurement in just one plot. Both, the in-band-emission and the unwanted emission were be encompassed by the span. After trace stabilization, the maximum peak was be determined by a peak detector and the value was marked by an appropriate limit line. The second limit line, which is 20dB below the first, marks the limit for the emissions in the unrestricted band. A maximum-peak-detector marks the highest emission in the unrestricted band next to the band edge.

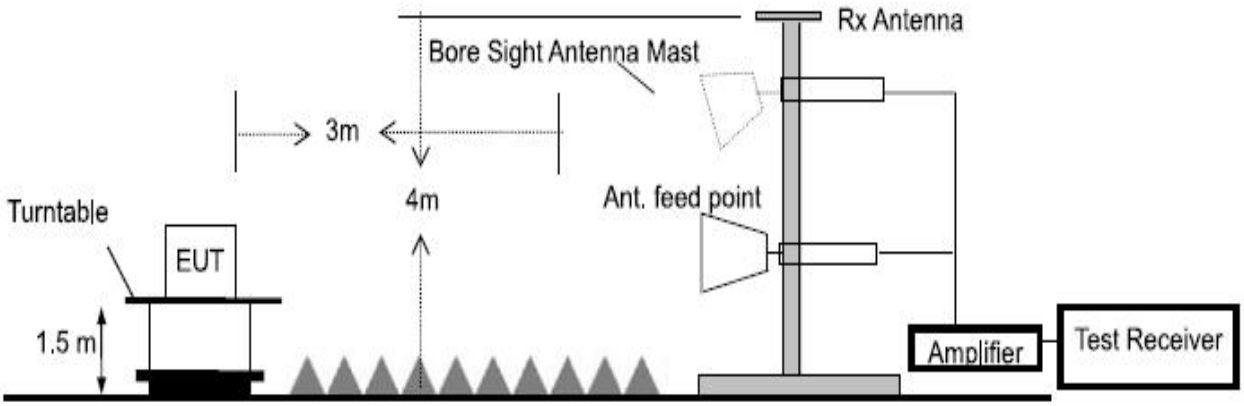
The measurements were performed at the lower end of the 2.4GHz band.

Use the following spectrum analyzer settings:

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz:

EMI Test Receiver	Setting
Attenuation	Auto
RBW	100KHz
VBW	300KHz
Detector	Peak
Trace	Max hold

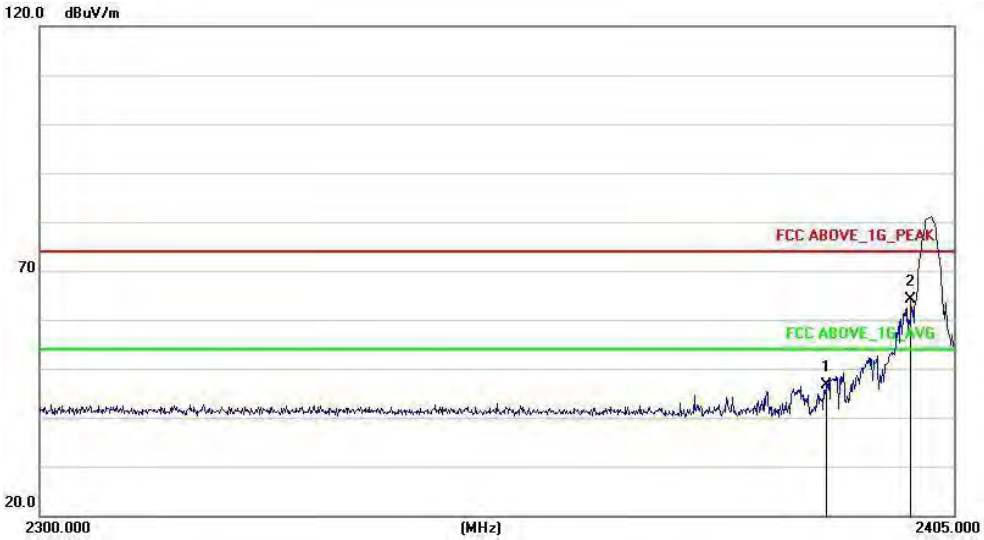
8.2 TEST SETUP



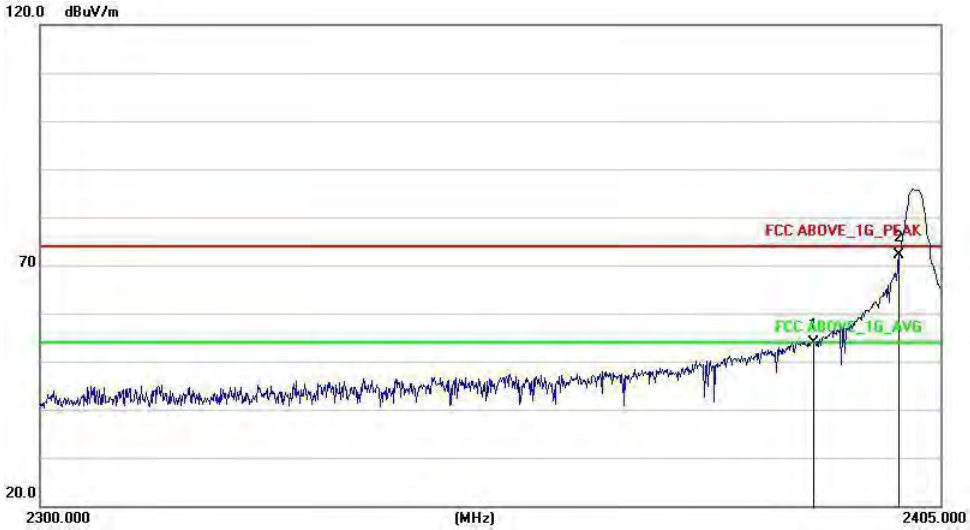
8.3 TEST RESULTS

	Frequency (MHz)	Antenna polarization (H/V)	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission (dBuV/m)	Emission (dBuV/m)	Band edge Limit (dBuV/m)		Result
						PK	AV	PK	AV	Pass
GFSK	<2400	H	2390.00	58.51	-4.71	53.80	38.78	74.00	54.00	Pass
	<2400	V	2390.00	51.22	-4.71	46.51	31.53	74.00	54.00	Pass
	<2400	H	2400.00	76.80	-4.77	72.03	57.02	74.00	54.00	Pass
	<2400	V	2400.00	68.89	-4.77	64.12	49.15	74.00	54.00	Pass
	>2483.5	H	2483.50	64.30	-5.08	59.22	44.19	74.00	54.00	Pass
	>2483.5	V	2483.50	61.02	-5.08	55.94	40.98	74.00	54.00	Pass
	>2483.5	H	2485.50	60.03	-5.08	54.95	39.97	74.00	54.00	Pass
	>2483.5	V	2485.50	57.01	-5.08	51.93	36.91	74.00	54.00	Pass

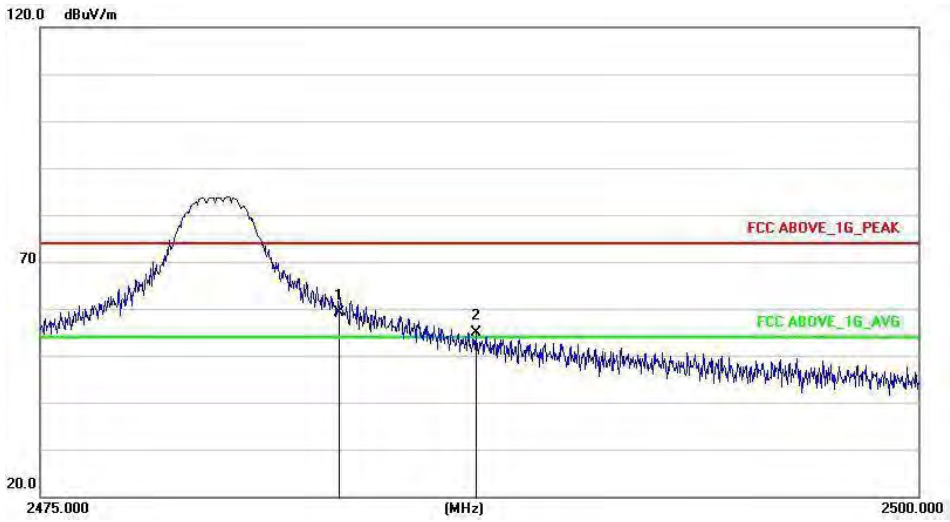
2402MHz Horizontal



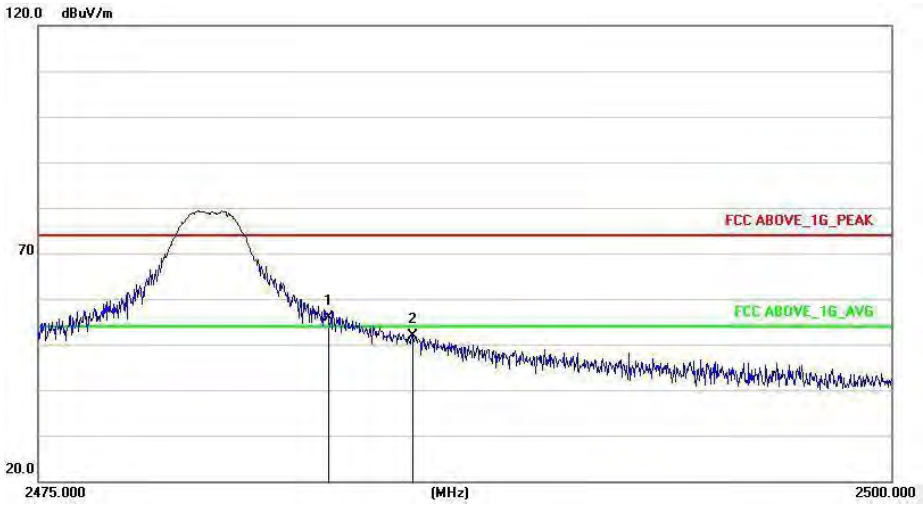
2402MHz Vertical



2480MHz Horizontal



2480MHz Vertical



9 20 dB Bandwidth Measurement

Test Requirement : FCC Part 15C Section 15.249

Test Method : ANSI C63.10:2013

Test Mode : Refer to section 3.3

9.1 Test Procedure

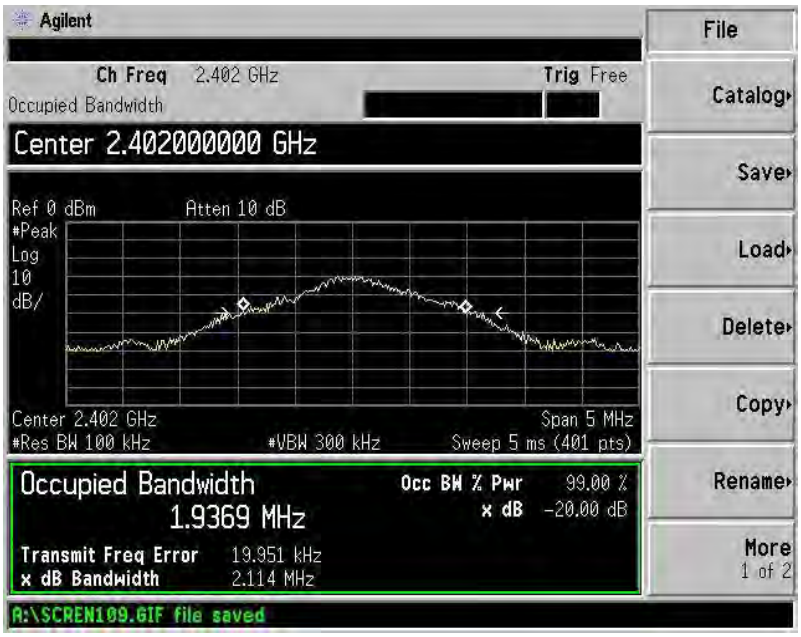
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

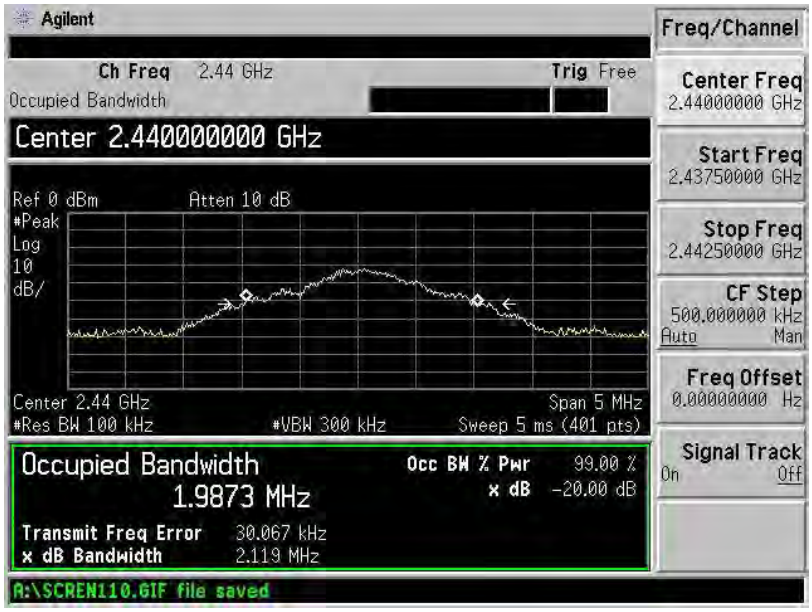
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

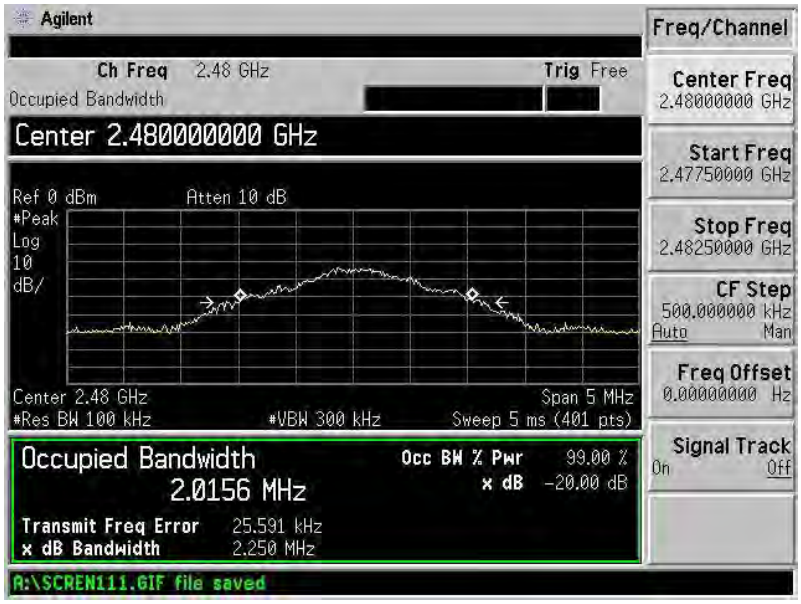
9.2 Test Result

Test Mode: CH1 / CH8 / CH16 (GFSK)

Channel number	Channel frequency (MHz)	20dB Down BW(kHz)	Result
01	2402	2114	PASS
08	2440	2119	PASS
16	2480	2250	PASS



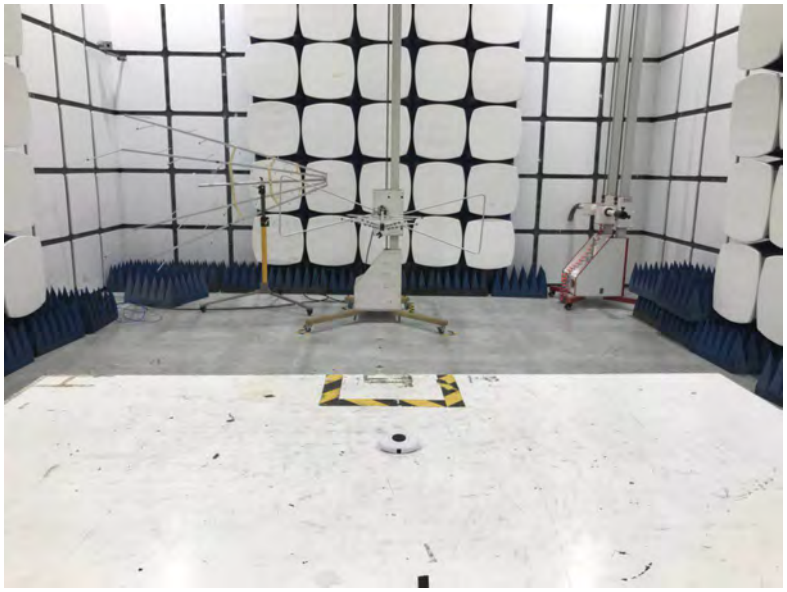

Agilent
Ch Freq 2.44 GHz
Trig Free
Occupied Bandwidth
Center 2.440000000 GHz
Ref 0 dBm
Atten 10 dB
#Peak
Log
10
dB/
Center 2.44 GHz
Span 5 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5 ms (401 pts)
Occupied Bandwidth
1.9873 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 30.067 kHz
x dB Bandwidth 2.119 MHz
A:\SCREN110.GIF file saved
Freq/Channel
Center Freq
2.44000000 GHz
Start Freq
2.43750000 GHz
Stop Freq
2.44250000 GHz
CF Step
500.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

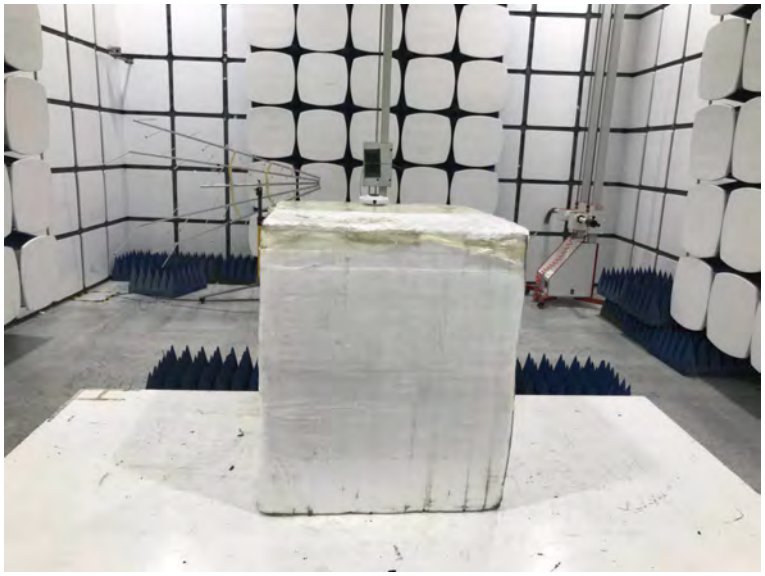

Agilent
Ch Freq 2.48 GHz
Trig Free
Occupied Bandwidth
Center 2.480000000 GHz
Ref 0 dBm
Atten 10 dB
#Peak
Log
10
dB/
Center 2.48 GHz
Span 5 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5 ms (401 pts)
Occupied Bandwidth
2.0156 MHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error 25.591 kHz
x dB Bandwidth 2.250 MHz
A:\SCREN111.GIF file saved
Freq/Channel
Center Freq
2.48000000 GHz
Start Freq
2.47750000 GHz
Stop Freq
2.48250000 GHz
CF Step
500.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

10 Antenna Requirement

According to the FCC part15.203, a transmitter can only be sold or operated with antennas with which it was approved. This product has an internal Wire Antenna, it meet the requirement of this section.

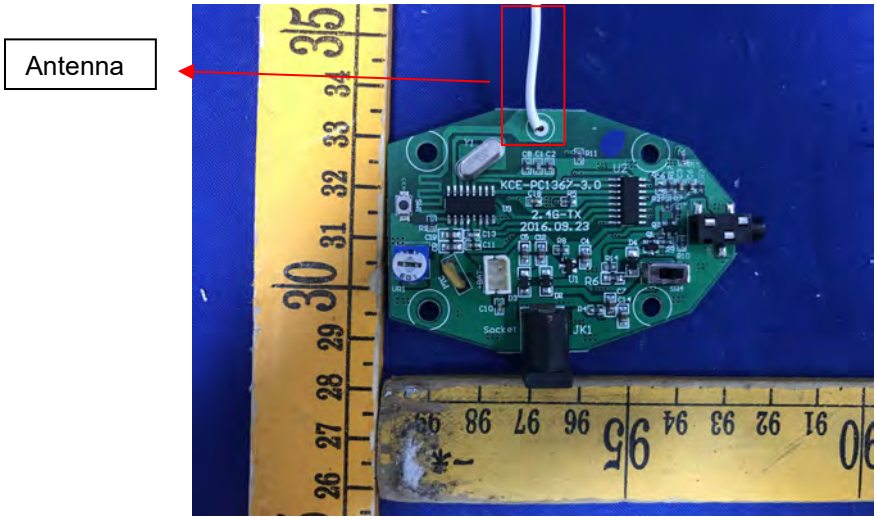
11 TEST PHOTOS

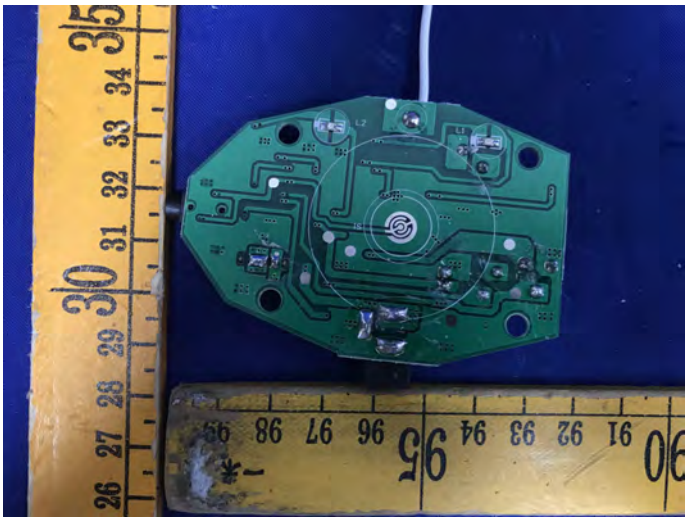




12 EUT PHOTOS

MANLY NI-MH 3.6V
1/3AAA150mAh
1A11A10


Antenna
KCE-PC1367-3.0
2.4G-TX
2016.09.23
Socket
JK1



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