



FCC TEST REPORT

Test report On Behalf of SHENZHEN AIRUIMAI TECHNOLOGY CO., LTD

For

Motorcycle sound Model No.: SPK400-Q, SPK350-D,SPK350-Q, SPK400-D, SPK500-D, SPK500-Q

FCC ID: 2AR9U-SPK400

Prepared for: SHENZHEN AIRUIMAI TECHNOLOGY CO., LTD

Floor 2/3, 4thBuilding, Wenge Industrial Area, Gongming Town, Guangming

District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Dec. 27, 2018 ~ Jan. 09, 2019

Date of Report: Jan. 09, 2019
Report Number: HK1901020069-E



TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN AIRUIMAI TECHNOLOGY CO., LTD							
	Floor 2/3, 4thBuilding, Wenge Industrial Area, Gongming Town, Guangming District, Shenzhen, China SHENZHEN AIRUIMAI TECHNOLOGY CO., LTD							
Address:	Floor 2/3, 4thBuilding, Wenge Industrial Area, Gongming Town,							
Product description	Guangming District, Shenzhen, China							
Trade Mark:	N/A							
Product name:								
	SPK400-Q, SPK350-D,SPK350-Q, SPK400-D, SPK500-D, SPK500-Q							
Standards:	FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013							
the Shenzhen HUAK Testing source of the material. Shenzhe								
Date (s) of performance of tests	: Dec. 27, 2018 ~ Jan. 09, 2019							
Date of Issue	: Jan. 09, 2019							
Test Result	: Pass							
Testing Engine	(Gary Qian)							
Technical Man	nager:							

Authorized Signatory:

(Jason Zhou)

(Eden Hu)





Page 3 of 26 Report No.: HK1901020069-E

lable of Contents	Page
1 . TEST SUMMARY	4
2 . GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 Operation of EUT during testing	6
2.3 DESCRIPTION OF TEST SETUP	7
2.4 MEASUREMENT INSTRUMENTS LIST	8
3. CONDUCTED EMISSIONS TEST	9
3.1 Conducted Power Line Emission Limit	9
3.2 Test Setup	9
3.3 Test Procedure	9
3.4 Test Result	9
4 RADIATED EMISSION TEST	10
4.1 Radiation Limit	10
4.2 Test Setup	10
4.3 Test Procedure	11
4.4 Test Result	11
5 BAND EDGE	17
5.1 Limits	17
5.2 Test Procedure	17
5.3 Test Result	17
6 OCCUPIED BANDWIDTH MEASUREMENT	19
6.1 Test Setup	19
6.2 Test Procedure	19
6.3 Measurement Equipment Used	19
6.4 Test Result	19
7 ANTENNA REQUIREMENT	25
8 PHOTOGRAPH OF TEST	26
8.1 Radiated Emission	26



1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST RESULT
CONDUCTED EMISSIONS TEST N/A
RADIATED EMISSION TEST COMPLIANT
BAND EDGE COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT COMPLIANT
ANTENNA REQUIREMENT COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Motorcycle sound
Model Name	SPK400-Q
Serial Model Name	SPK350-D,SPK350-Q, SPK400-D, SPK500-D, SPK500-Q
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: SPK400-Q.
FCC ID	2AR9U-SPK400
Antenna Type	PCB Antenna
Antenna Gain	0 dBi
BT Operation frequency	2402-2480MHz
Number of Channels	79CH
Modulation Type	GFSK, π/4DQPSK, 8DPSK
Power Source	DC 12V
Power Rating	DC 12V





2.1.1 Carrier Frequency of Channels

Channel List									
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
00	2402	27	2429	54	2456				
01	2403	28	2430	55	2457				
02	2404	29	2431	56	2458				
03	2405	30	2432	57	2459				
04	2406	31	2433	58	2460				
05	2407	32	2434	59	2461				
06	2408	33	2435	60	2462				
07	2409	34	2436	61	2463				
08	2410	35	2437	62	2464				
09	2411	36	2438	63	2465				
10	2412	37	2439	64	2466				
11	2413	38	2440	65	2467				
12	2414	39	2441	66	2468				
13	2415	40	2442	67	2469				
14	2416	41	2443	68	2470				
15	2417	42	2444	69	2471				
16	2418	43	2445	70	2472				
17	2419	44	2446	71	2473				
18	2420	45	2447	72	2474				
19	2421	46	2448	73	2475				
20	2422	47	2449	74	2476				
21	2423	48	2450	75	2477				
22	2424	49	2451	76	2478				
23	2425	50	2452	77	2479				
24	2426	51	2453	78	2480				
25	2427	52	2454						
26	2428	53	2455						

2.2 Operation of EUT during testing

Operating Mode The mode is used: **Transmitting mode**

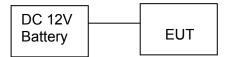
Low Channel: 2402MHz Middle Channel: 2441MHz High Channel: 2480MHz





2.3 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation and Above1GHz Radiation testing:





2.4 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2018	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2018	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2018	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2018	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2018	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2018	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2018	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2018	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2018	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2018	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2018	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2018	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2018	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year



CONDUCTED EMISSIONS TEST

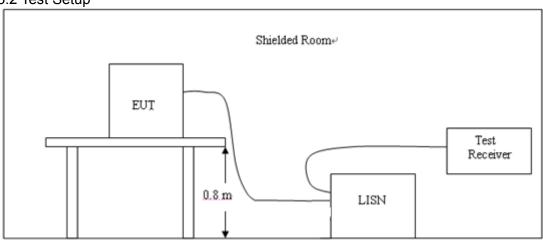
3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Eroguenev	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(11112)	Q.P.	Ave.	Q.P.	Ave.		
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

^{*} Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.1 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Test product is test by DC power supply, Not applicable.



4 RADIATED EMISSION TEST

4.1 Radiation Limit

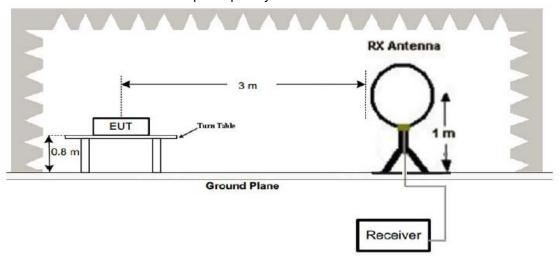
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
1.705-30	3	20log(30)+ 40log(30/3)	30	
30-88	3	40.0	100	
88-216	3	43.5	150	
216-960	3	46.0	200	
Above 960	3	54.0	500	

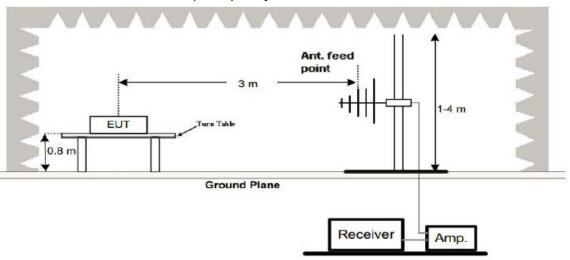
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

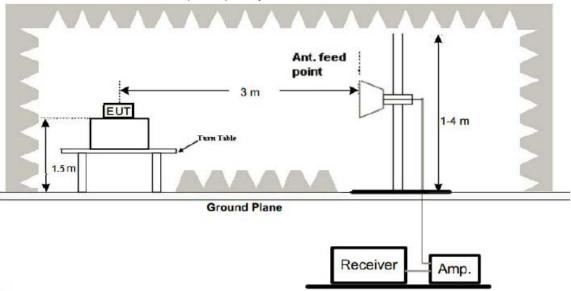


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

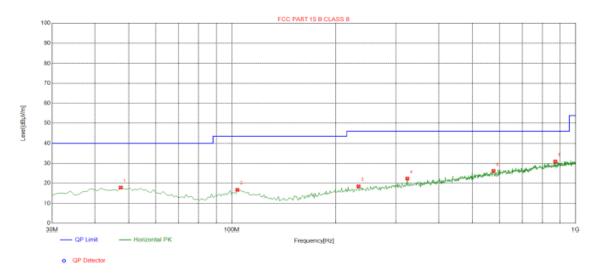
PASS

All the test modes completed for test. only the worst result of GFSK Low Channel was reported as below:





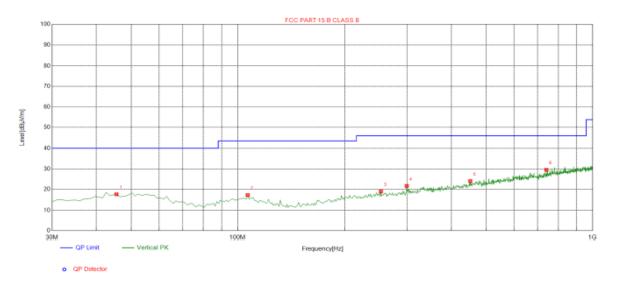
Below 1GHz Test Results: Antenna polarity: H



Susp	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	47.4600	17.89	-13.65	40.00	22.11	100	13	Horizontal	
2	103.720	16.73	-15.41	43.50	26.77	100	340	Horizontal	
3	233.700	18.46	-14.15	46.00	27.54	100	277	Horizontal	
4	323.910	22.35	-11.90	46.00	23.65	100	192	Horizontal	
5	577.080	26.14	-6.53	46.00	19.86	100	132	Horizontal	
6	871.960	31.03	-2.21	46.00	14.97	100	281	Horizontal	

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Antenna polarity: V



Susp	Suspected List								
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dBµV/m]	[dB]	[dB] [dBµV/m] [dB] [cm]	[°]	Folanty			
1	45.5200	17.66	-13.65	40.00	22.34	100	1	Vertical	
2	106.630	17.29	-15.42	43.50	26.21	100	292	Vertical	
3	253.100	19.09	-13.43	46.00	26.91	100	301	Vertical	
4	299.660	21.68	-12.74	46.00	24.32	100	322	Vertical	
5	451.950	24.02	-8.93	46.00	21.98	100	151	Vertical	
6	741.010	29.62	-4.09	46.00	16.38	100	66	Vertical	

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results:

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	-		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
2402	109.94	-5.81	104.13	114.00	-9.87	peak		
2402	84.90	-5.81	79.09	94.00	-14.91	AVG		
4804	54.75	-3.65	51.10	74.00	-22.90	peak		
4804	45.26	-3.65	41.61	54.00	-12.39	AVG		
7206	55.16	-0.95	54.21	74.00	-19.79	peak		
7206	39.95	-0.95	39.00	54.00	-15.00	AVG		
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
2402	111.09	-5.81	105.28	114.00	-8.72	peak		
2402	83.17	-5.81	77.36	94.00	-16.64	AVG		
4804	55.65	-3.65	52.00	74.00	-22.00	peak		
4804	45.66	-3.65	42.01	54.00	-11.99	AVG		
7206	55.37	-0.95	54.42	74.00	-19.58	peak		
7206	42.75	-0.95	41.80	54.00	-12.20	AVG		
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



CH Middle (2441MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
2441.00	110.24	-5.73	104.51	114.00	-9.49	peak		
2441.00	85.21	-5.73	79.48	94.00	-14.52	AVG		
4882.00	54.29	-3.54	50.75	74.00	-23.25	peak		
4882.00	45.73	-3.54	42.19	54.00	-11.81	AVG		
7323.00	54.65	-0.81	53.84	74.00	-20.16	peak		
7323.00	40.64	-0.81	39.83	54.00	-14.17	AVG		
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	D 1 1
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2441.00	112.23	-5.73	106.50	114.00	-7.50	peak
2441.00	86.47	-5.73	80.74	94.00	-13.26	AVG
4882.00	53.80	-3.54	50.26	74.00	-23.74	peak
4882.00	45.98	-3.54	42.44	54.00	-11.56	AVG
7323.00	54.35	-0.81	53.54	74.00	-20.46	peak
7323.00	39.37	-0.81	38.56	54.00	-15.44	AVG
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.					





CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	5
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	110.24	-5.63	104.61	114.00	-9.39	peak
2480	83.56	-5.63	77.93	94.00	-16.07	AVG
4960	55.10	-3.43	51.67	74.00	-22.33	peak
4960	43.04	-3.44	39.60	54.00	-14.40	AVG
7440	55.23	-0.77	54.46	74.00	-19.54	peak
7440	40.27	-0.77	39.50	54.00	-14.50	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	108.94	-5.63	103.31	114.00	-10.69	peak
2480	83.12	-5.63	77.49	94.00	-16.51	AVG
4960	55.13	-3.43	51.70	74.00	-22.30	peak
4960	45.74	-3.44	42.30	54.00	-11.70	AVG
7440	54.02	-0.77	53.25	74.00	-20.75	peak
7440	36.49	-0.77	35.72	54.00	-18.28	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz •
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak
- detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.





5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

All the test modes completed for test. The worst case of Band Edge is GFSK; the test data of this mode was reported.

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	57.15	-5.81	51.34	74	-22.66	peak
2390	1	-5.81	1	54	1	AVG
2400	52.69	-5.84	46.85	74	-27.15	peak
2400	1	-5.84	/	54	/	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	53.28	-5.81	47.47	74	-26.53	peak
2390	1	-5.81	1	54	1	AVG
2400	51.23	-5.84	45.39	74	-28.61	peak
2400	1	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.





Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	60.00	-5.81	54.19	74	-19.81	peak
2483.50	1	-5.81	1	54	1	AVG
2500.00	53.75	-6.06	47.69	74	-26.31	peak
2500.00	1	-6.06	1	54	1	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	57.13	-5.81	51.32	74	-22.68	peak
2483.50	1	-5.81	1	54	1	AVG
2500.00	52.01	-6.06	45.95	74	-28.05	peak
2500.00	1	-6.06	1	54	1	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=2MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

Test Mode	Frequency	20dB Bandwidth (MHz)	Result
	2402 MHz	0.8163	PASS
GFSK	2441 MHz	0.8293	PASS
	2480 MHz	0.8239	PASS
	2402 MHz	1.114	PASS
π/4DQPSK	2441 MHz	1.115	PASS
	2480 MHz	1.128	PASS
	2402 MHz	1.143	PASS
8DPSK	2441 MHz	1.147	PASS
	2480 MHz	1.149	PASS

Test Mode: GFSK

CH: 2402MHz



CH: 2441MHz











Test Mode: π/4DQPSK

CH: 2402MHz





CH: 2441MHz



CH: 2480MHz





Test Mode: 8DPSK

CH: 2402MHz



CH: 2441MHz





CH: 2480MHz







7 ANTENNA REQUIREMENT

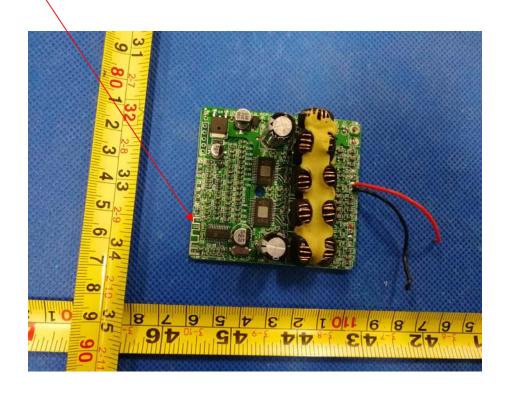
Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

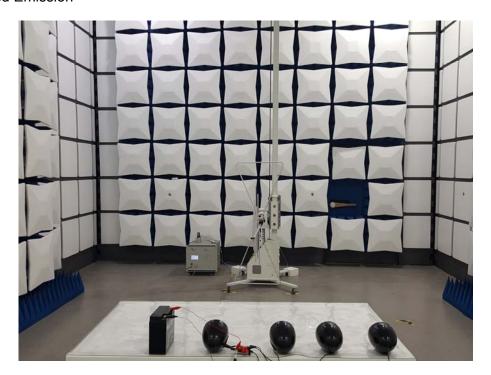
<u>ANTENŅA</u>





8 PHOTOGRAPH OF TEST

8.1 Radiated Emission





----- The End -----