FCC Test Report

Report No.: AGC05277170420FE04

FCC ID	:	WMSBETXAUD2
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Personal Hearing System
BRAND NAME	:	Bellman & Symfon
MODEL NAME	:	BE2270
CLIENT	:	Bellman & Symfon Europe AB
DATE OF ISSUE	:	June 08, 2017
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247 KDB 558074 D01 DTS Meas Guidance v04
REPORT VERSION	:	V1.0



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	June 08, 2017	Valid	Original Report

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Applicant	Bellman & Symfon Europe AB	
Address	Sodra Langebergsgatan 30 421 32 Vastra Frolunda, Sweden	
Manufacturer	Bellman & Symfon Europe AB	
Address	Sodra Langebergsgatan 30 421 32 Vastra Frolunda, Sweden	
Product Designation	Wireless Personal Hearing System	
Brand Name	Bellman & Symfon	
Test Model	BE2270	
Date of test	June 05, 2017 to June 08, 2017	
Deviation	None	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BGN/RF	

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Now 2hang Tested by Max Zhang(Zhang Yi) June 08, 2017 Bong xie Reviewed by Bart Xie(Xie Xiaobin)) June 08, 2017 Approved by Solger Zhang(Zhang Hongyi)

Authorized Officer

June 08, 2017

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "WIRELESS PERSONAL HEARING SYSTEM". It is designed by way of utilizing the QPSK technology to achieve the system operation.

A major technical description of 2011's described as following	
Operation Frequency	2.412 GHz~2.464GHz
Output Power	4.80dBm
Modulation	QPSK
Number of channels	3
Hardware Version	BE2270_002LAY010
Software Version	BE2270_012FWA010.hex
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Antenna Gain	2.1dBi
Power Supply	DC 5V by adapter or DC 3.7V by battery

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2438 MHZ
	3	2464 MHZ

2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: WMSBETXAUD2** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v04.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 12%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT	Accessory
-----	-----------

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WIRELESS PERSONAL HEARING SYSTEM	BE2270	WMSBETXAUD2	EUT
2	Adapter 1	KSAS0050500100D5U	DC5V/1A	Marketed
3	Adapter 2	A122-0501000IU	DC5V/1A	Marketed

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration				
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017				
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017				
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017				
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017				
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 2, 2017	June 1, 2018				
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A				
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 2, 2017	June 1, 2018				
Spectrum analyzer	Agilent	E4407B	MY46185649	June 2, 2017	June 1, 2018				
Power Sensor	Agilent	U2021XA	MY55050474	June 2, 2017	June 1, 2018				
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 2, 2017	June 1, 2018				
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 2, 2017	June 1, 2018				

Conducted Emission Test Site								
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration			
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	June 2, 2017	June 1, 2018			
Artificial Mains Network	Narda	L2-16B	000WX31025	June 2, 2017	June 1, 2018			
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	June 2, 2017	June 1, 2018			
RF Cable	SCHWARZBECK	AK9515E	96222	June 2, 2017	June 1, 2018			
Shielded Room	CHENGYU	843	PTS-002	June 2, 2017	June 1, 2018			

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

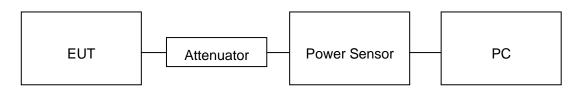
For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	QPSK

Frequency (GHz)	Peak Power (dBm)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	14.21	4.80	30	Pass
2.438	13.45	4.25	30	Pass
2.464	13.04	3.84	30	Pass

Note: Add 10 log (1/x), where x is the duty cycle.

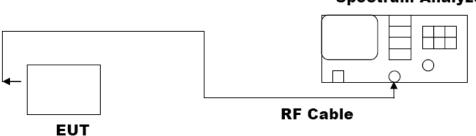
8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



Spectrum Analyzer

8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	QPSK

LIMITS AND MEASUREMENT RESULT							
Applicable Limite	Applicable Limits						
Applicable Limits	Test Da	Criteria					
	Low Channel	8.111	PASS				
>500KHZ	Middle Channel	9.929	PASS				
	High Channel	9.017	PASS				

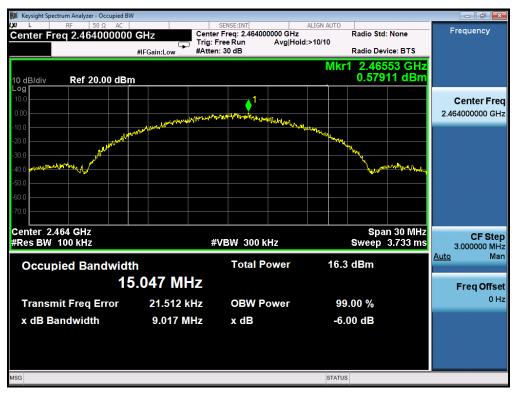


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.
- Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

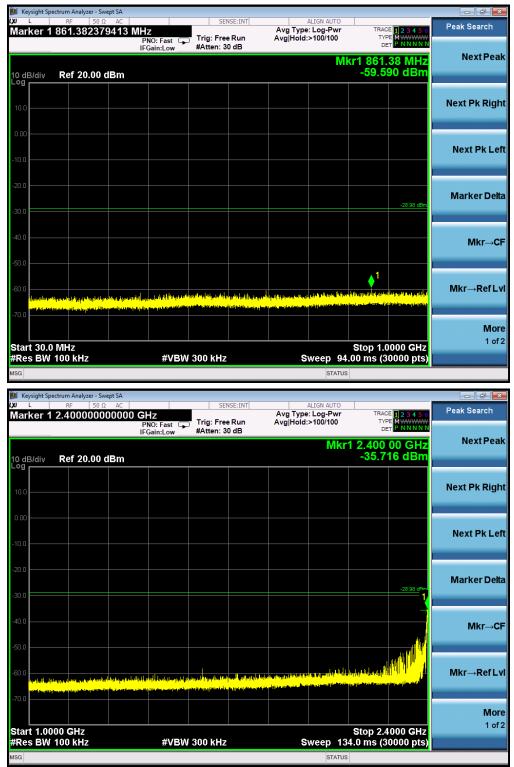
The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Appliachta Limita	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the	At least -30dBc than the limit				
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the radio frequency	Channel				
power that is produce by the intentional radiator shall be at least 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -30dBc than the limit Specified on the TOP Channel	PASS			



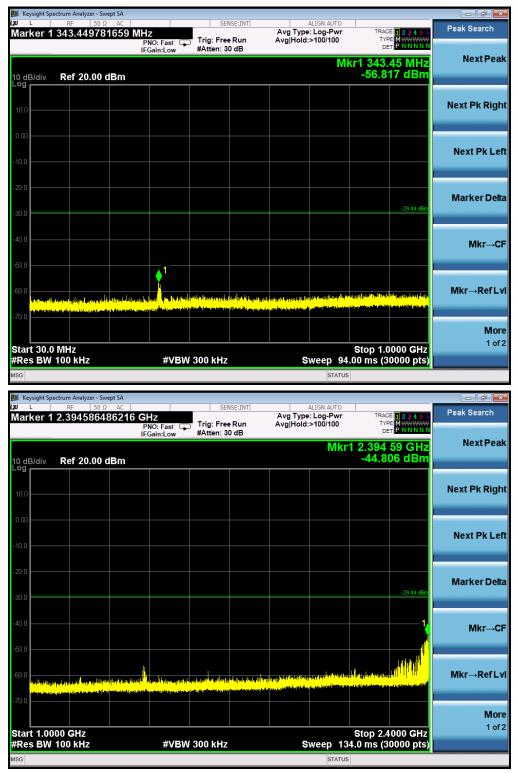
TEST PLOT OF OUT OF LOW CHANNEL



TEST PLOT OF OUT OF MIDDLE CHANNEL

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Next PK Right											
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	-30.00 dBm										
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C dB/div	pectrum Analyzer - Swept RF 50 Ω 1 2.506767825	SA AC 5 594 GHz PNO: Fast IFGain:Low	SEN	Run	Avg Type	ALIGN AUTO a: Log-Pwr :>100/100	ткас Түр DE 71 2.50 0		Peak Search Next Pea Next Pk Rig Next Pk Lu
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Keysight Sp L Iarker 1	Ref 20.00 dB	SA AC PNO: Fast IFGain:Low	SEN	Run dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 MIKI	TRAC TVP DE 71 2.500 -39.92	E 1 2 3 4 5 6 E M NNNN S 8 GHz 29 dBm -30.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lo Marker De Mkr→0
Code Contraction C	Ref 20.00 dB	SA AC PNO: Fast IFGain:Low	SEN	Run dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 MIKI	TRAC TVP DE 71 2.500 -39.92	E 1 2 3 4 5 6 E M NNNN S 8 GHz 29 dBm -30.00 dBm	Peak Search Next Pe Next Pk Rig Next Pk Lu Marker De Mkr→C
Keysight Sp arker 1 0 dB/div 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1 0.0 0.0 1 0.0 0.0	Pectrum Analyzer - Swept RF 50 Ω Ref 20.00 dB	SA AC PNO: Fast IFGain:Low	SEN	Run dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 MIKI	TRAC TYP DE r1 2.500 -39.92	■ 1 2 3 4 5 6 ■ MWWWWW 5 8 GHz 29 dBm -30.00 dBm	Peak Search Next Pea Next Pk Rig Next Pk Lu Marker De Mkr→Ref L Mo
Keysight Sp arker 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pectrum Analyzer - Swept RF 50 Ω Ref 20.00 dB	SA AC PNO: Fast IFGain:Low Sm	SEN	Run dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :>100/100 MIKI	TRAC TYP DE 71 2.500 -39.92	■ 1 2 3 4 5 6 ■ MININA 3 8 GHz 29 dBm -30.00 dbm	



TEST PLOT OF OUT OF HIGH CHANNEL

🎉 Keysight Spectrum Ani						
₩ L RF Marker 1 2.492			Avg Type: L Avg Hold:>1		TRACE 123456 TYPE MWWWW DET PNNNNN	Peak Search
10 dB/div Ref 2	20.00 dBm	FGain:Low #Atten.		Mkr1	2.492 5 GHz 36.555 dBm	Next Peak
10.0						Next Pk Right
-10.0						Next Pk Lef
-20.0					-29.44 dBm	Marker Delta
-40.0	and the plant of the state of t	un as de constante de la consta				Mkr→CF
-60.0						Mkr→RefLv
-70.0 Start 2.48 GHz		#\/B\\\/ 2.0.54U-		59.00	top 25.00 GHz	More 1 of 2
#Res BW 1.0 MI	2	#VBW 3.0 MHz	SWO	STATUS	ms (30000 pts)	

Note: The 100kHz RBW used in the conducted spurious test from 2.4835GHz to 25GHz may result in long measuring times, To avoid such long measuring times, the 1MHz RBW can be used for pre-test. If the emission level exceeded the limit at one or more frequencies, the 100kHz RBW would be used for final test at the special frequency.

10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVPSD in the KDB 558074 item 10.5 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

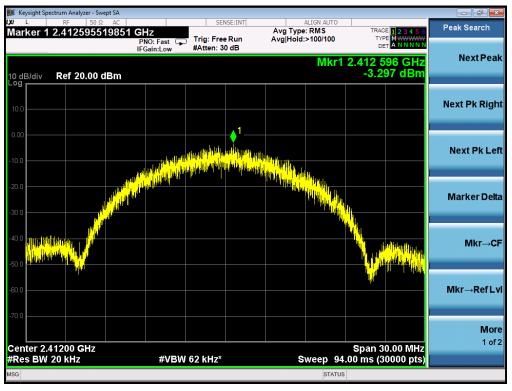
Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	QPSK

Channel No.	PSD (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-12.479	8	Pass
Middle Channel	-14.848	8	Pass
High Channel	-15.180	8	Pass

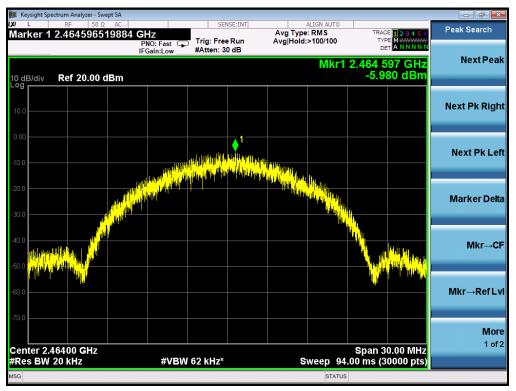
Note: Add 10 log (1/x), where x is the duty cycle.



TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL







TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

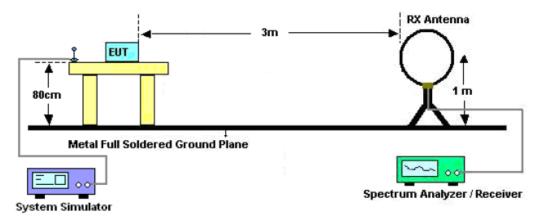
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

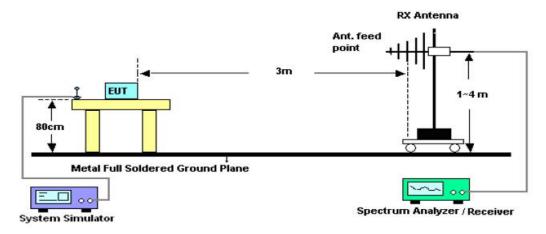
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and 3M RBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

11.2. TEST SETUP

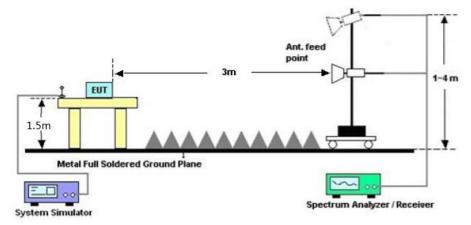
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

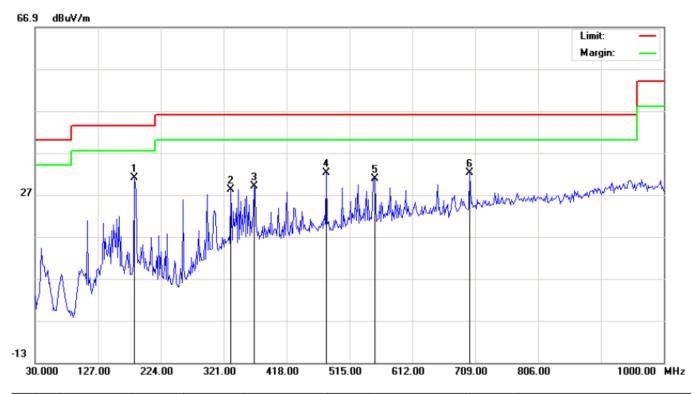
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

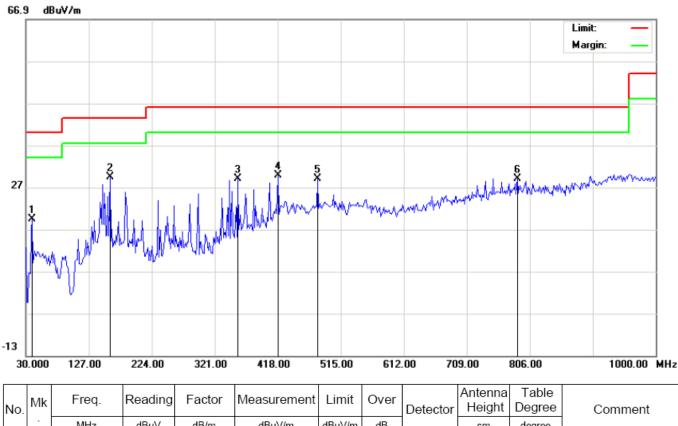
EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low channel	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	183.5833	19.80	11.24	31.04	43.50	-12.46	peak			
2		332.3167	10.67	17.56	28.23	46.00	-17.77	peak			
3		367.8833	10.11	18.86	28.97	46.00	-17.03	peak			
4		479.4333	11.23	20.91	32.14	46.00	-13.86	peak			
5		553.8000	8.14	22.58	30.72	46.00	-15.28	peak			
6		700.9167	7.07	25.22	32.29	46.00	-13.71	peak			

RESULT: PASS

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low channel	Antenna	Vertical



No.	Mk	Fleq.	Reading	Factor	Measurement	LIIIII	Over	Detector	Height	Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	10.89	8.51	19.40	40.00	-20.60	peak			
2	*	159.3333	13.99	15.33	29.32	43.50	-14.18	peak			
3		356.5667	10.24	18.78	29.02	46.00	-16.98	peak			
4		418.0000	10.15	19.62	29.77	46.00	-16.23	peak			
5		479.4333	8.00	20.91	28.91	46.00	-17.09	peak			
6		786.6000	1.96	27.14	29.10	46.00	-16.90	peak			

RESULT: PASS

Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The Low channel is the worst case and recorded in the report.

RADIATED EMISSION ABOVE 1GHZ

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low channel	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4824.025	49.52	3.72	53.24	74	-20.76	peak		
4824.058	40.32	3.72	44.04	54	-9.96	AVG		
7236.057	44.51	8.15	52.66	74	-21.34	peak		
7236.023	35.31	8.15	43.46	54	-10.54	AVG		
Remark:								
Factor = Ante	actor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low channel	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type		
4824.094	49.13	3.72	52.85	74	-21.15	peak		
4824.108	39.93	3.72	43.65	54	-10.35	AVG		
7236.030	42.38	8.15	50.53	74	-23.47	peak		
7236.119	33.18	8.15	41.33	54	-12.67	AVG		
emark:								
actor = Antenna Factor + Cable Loss – Pre-amplifier.								

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EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Middle channel	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value i ype			
4876.053	48.57	3.75	52.32	74	-21.68	peak			
4876.119	39.37	3.75	43.12	54	-10.88	AVG			
7314.031	43.64	8.16	51.8	74	-22.2	peak			
7314.110	34.44	8.16	42.6	54	-11.4	AVG			
Remark:									
actor = Antenna Factor + Cable Loss – Pre-amplifier.									

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Middle channel	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype				
4876.032	48.15	3.75	51.9	74	-22.1	peak				
4876.087	38.95	3.75	42.7	54	-11.3	AVG				
7314.054	43.29	8.16	51.45	74	-22.55	peak				
7314.043	34.09	8.16	42.25	54	-11.75	AVG				
Remark:										
-actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.							

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EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	High channel	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype
4928.069	47.11	3.81	50.92	74	-23.08	peak
4928.028	37.91	3.81	41.72	54	-12.28	AVG
7392.020	44.06	8.19	52.25	74	-21.75	peak
7392.091	34.86	8.19	43.05	54	-10.95	AVG
Remark:	-		-		-	-
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	High channel	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4928.109	46.25	3.81	50.06	74	-23.94	peak
4928.095	37.05	3.81	40.86	54	-13.14	AVG
7392.046	43.54	8.19	51.73	74	-22.27	peak
7392.114	34.34	8.19	42.53	54	-11.47	AVG
Remark:	•		•			•
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.			

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

12.3. TEST RESULT

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low Channel	Antenna	Horizontal



	Keysight S																	
lxi Ma	L rker 1	RI 2 2 3		50 Ω A	∝ ∣)00 Gi	Hz		SE	NSE:INT		Ava		GN AUTO		TRA	E 123	456	Peak Search
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87																N		3
77						-					1					- Vor	=	
67									and the second sec								-	Next Pk Left
57						-	2			=								Next PK Leit
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27	.0																	Marker Delta
17	.0																	
St	∟ art 2.3	7000	GH7											Sto	n 2 4'	2500 G	Hz	
#R	es BV	v 1.0	MHz			#VI	BW	3.0 MHz				Sv	veep	1.000	ms (1001	ots)	Mkr→CF
МК		TRC SC	L		х			Y		FUNCT	ION		ION WIDTH			ON VALUE	•	
1		1 f			2.410 70 2.390 00			02.040 dE 41.728 dE										
3					2.350 00	0 GHZ		41.720 UL										Mkr→RefLvl
4 5																	Ξ	
67																		
8																		More
9 10																		1 of 2
11																		
MSG													STATI	JS				
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EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Low Channel	Antenna	Vertical

	wept SA Ω AC	SENSE:IN			Peak Search
arker 1 2.4133400	DOOOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 10 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
dB/div Ref 106.9	9 dBµV		Mkr	1 2.413 340 GHz 100.173 dBμV	NextPea
7.0					Next Pk Rig
7.0		2			Next Pk Le
7.0	and a state of the				Marker De
art 2.37000 GHz Res BW 1.0 MHz		BW 3.0 MHz		Stop 2.42500 GHz 1.000 ms (1001 pts)	Mkr→C
MODE TRC SCL 1 N 1 f 2 N 1 f 3 - - 4 - - 5 - -	× 2.413 340 GHz 2.390 000 GHz	Y 100.173 dBµV 40.140 dBµV	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Mkr→RefL
6 7					M o 1 o
B B					10

ΡK

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	High Channel	Antenna	Horizontal

Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC arker 1 2.465450000000	SENSE:INT	ALIGN AUTO	TRACE 123456	Peak Search
arker 1 2.46545000000	PNO: Fast Trig: Free Run IFGain:Low Atten: 10 dB	Avg Hold:>100/100		
0 dB/div Ref 106.99 dBµ\	1	Mkr1 1	2.465 45 GHz 01.050 dBµV	NextPea
og 47.0 37.0 77.0				Next Pk Righ
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art 2.45000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 1.00	op 2.50000 GHz 00 ms (1001 pts)	Mkr→C
2 N 1 f 2.4 3 4 5	Y 165 45 GHz 101.050 dBµV 183 50 GHz 43.290 dBµV	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Mkr→RefL
6				
6 6 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			_	Mo 1 of

ΡK

EUT	WIRELESS PERSONAL HEARING SYSTEM	Model Name	BE2270
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	High Channel	Antenna	Vertical



RESULT: PASS

Note: The peak level of the emission is less the average limit, so the average level is deemed to comply with the average limit without test.

13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

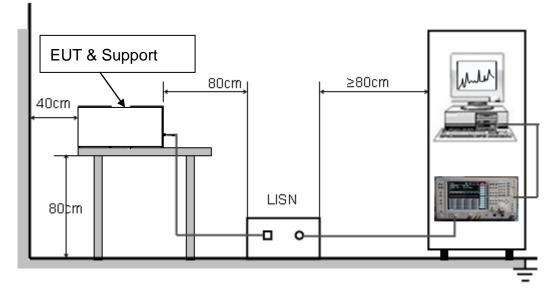
Frequency	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

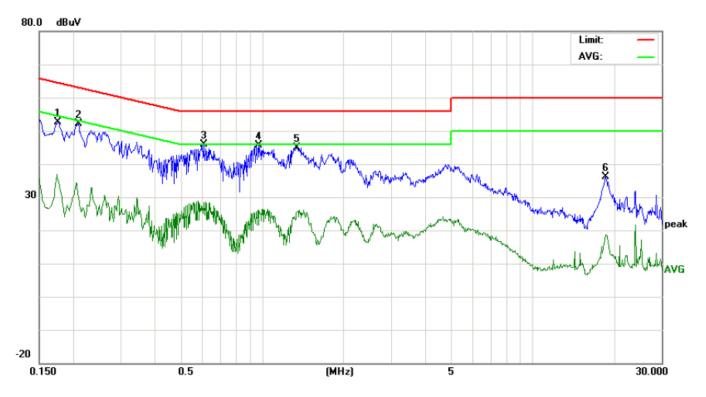
- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 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. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received 120V/60Hzpower by a LISN..
- 6. The 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.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

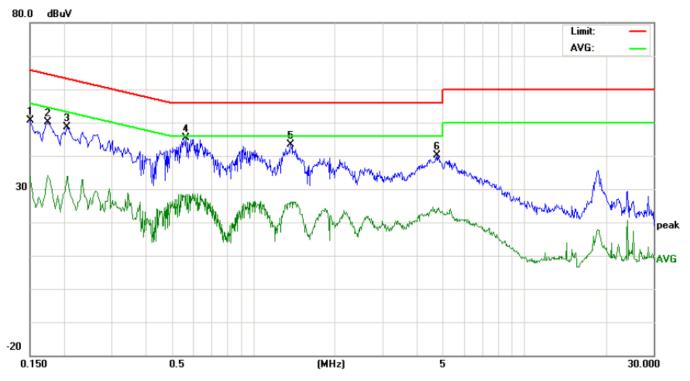
13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Line Conducted Emission Test Line 1-L

No. Freq. (MHz)		Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHZ)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1758	42.34		25.16	10.19	52.53		35.35	64.68	54.68	-12.15	-19.33	Р	
2	0.2100	41.81		19.35	10.23	52.04		29.58	63.20	53.20	-11.16	-23.62	Р	
3	0.6100	35.62		18.09	10.31	45.93		28.40	56.00	46.00	-10.07	-17.60	Р	
4	0.9740	35.21		15.72	10.38	45.59		26.10	56.00	46.00	-10.41	-19.90	Р	
5	1.3500	34.60		15.26	10.38	44.98		25.64	56.00	46.00	-11.02	-20.36	Р	
6	18.7019	26.05		8.54	10.12	36.17		18.66	60.00	50.00	-23.83	-31.34	Р	

RESULT: PASS



Line Conducted Emission Test Line 2-N

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1499	40.51		23.76	10.16	50.67		33.92	66.00	56.00	-15.33	-22.08	Р	
2	0.1740	39.92		23.88	10.19	50.11		34.07	64.76	54.76	-14.65	-20.69	Р	
3	0.2060	38.45		23.68	10.22	48.67		33.90	63.36	53.36	-14.69	-19.46	Р	
4	0.5660	34.92		18.13	10.34	45.26		28.47	56.00	46.00	-10.74	-17.53	Р	
5	1.3740	33.03		15.81	10.38	43.41		26.19	56.00	46.00	-12.59	-19.81	Р	
6	4.7899	30.00		13.23	10.23	40.23		23.46	56.00	46.00	-15.77	-22.54	Р	

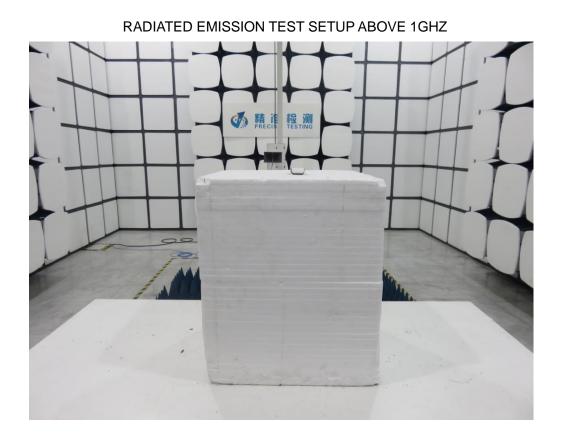
RESULT: PASS

APPENDIX A: PHOTOGRAPHS OF TEST SETUP LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP BELOW 1GHZ







APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

Accessories





TOP VIEW OF EUT

BOTTOM VIEW OF EUT





FRONT VIEW OF EUT

BACK VIEW OF EUT





RIGHT VIEW OF EUT

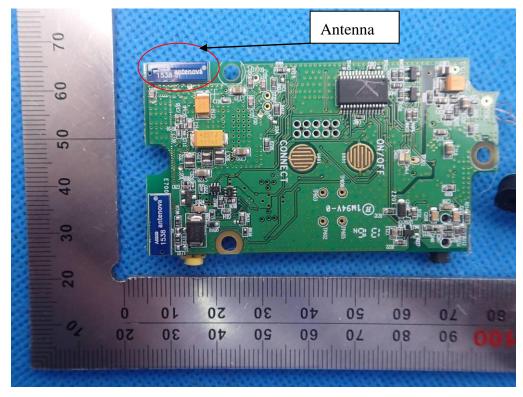


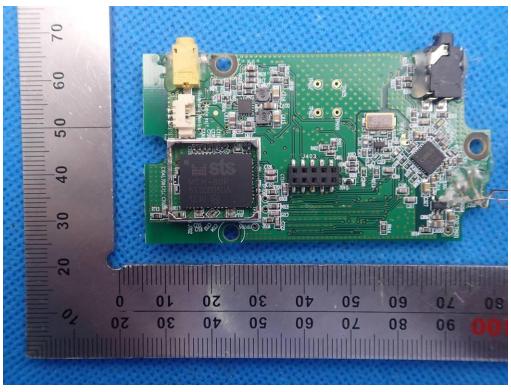
LEFT VIEW OF EUT



OPEN VIEW OF EUT

INTERNAL VIEW OF EUT-1





INTERNAL VIEW OF EUT-2

INTERNAL VIEW OF EUT-3



----END OF REPORT----