# FCC Test Report

Report No.: AGC03444170604FE03

FCC ID	:	2ACX8TR-P262B
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	TURNTABLE WITH BLUETOOTH FUNCTION
BRAND NAME	:	TIMSEN
MODEL NAME	:	See page 4
CLIENT	:	TIMSEN INTERNATIONAL LIMITED
DATE OF ISSUE	:	Jul.08, 2017
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15 Subpart C Section 15.249
<b>REPORT VERSION</b>	:	V1.0



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

# **Report Revise Record**

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I. VERIFICATION OF C		
Applicant	TIMSEN INTERNATIONAL LIMITED	
Address	5F, No. 447, Tianhebei Road, Tianhe District, Guangzhou, Guangdong Province, 510610, China	
Manufacturer	TIMSEN INTERNATIONAL LIMITED	
Address	5F, No. 447, Tianhebei Road, Tianhe District, Guangzhou, Guangdong Province, 510610, China	
Product Designation	TURNTABLE WITH BLUETOOTH FUNCTION	
Brand Name	TIMSEN	
Test Model	TR-P262B	
Series Model	TR-P221, TR-P235, TR-P235B, TR-P260, TR-P261, TR-P262, TR-P316, TR-P317, TR-P318, TR-P319, TR-P320, TR-P321, TR-P322, TR-P323, TR-P324, TR-P325	
Difference description	All the same except for the appearance color	
Date of test	Jun.22, 2017 to Jun.26, 2017	
Deviation	None	
Condition of Test Sample	Normal	
Report Template	AGCRT-US-BR/RF	

# **1. VERIFICATION OF CONFORMITY**

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

Time throng

**Tested By** Time Huang(Huang Nanhui) Jun.26, 2017 owesto in **Reviewed By** Forrest Lei(Lei Yonggang) Jul.08, 2017

Solya shary

Approved By

Solger Zhang(Zhang Hongyi) Authorized Officer

Jul.08, 2017

# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	1.90dBm(Max EIRP Power=Max radiation field-95.2)	
Bluetooth Version	V4.2	
Modulation	GFSK, π /4-DQPSK, 8DPSK	
Number of channels	79	
Hardware Version	V4.0	
Software Version	V4.00	
Antenna Designation	PCB Antenna	
Antenna Gain	2dBi	
Power Supply(by adapter) INPUT: AC100-240V 50/60Hz 1.5A OUTPUT: DC 12V 500mA		
Note: The EUT didn't support BLE.		

# 2.2. TABLE OF CARRIER FREQUENCYS

**BR/EDR Channel List** 

Frequency Band	Channel Number	Frequency
	0	2402MHz
	1	2403MHz
	:	:
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
		:
	77	2479 MHz
	78	2480 MHz

# **3. MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement y  $\pm$ U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions, radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±2%

# 4. DESCRIPTION OF TEST MODES

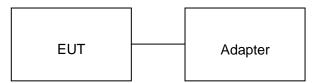
TEST MODE DESCRIPTION
Low channel TX(GFSK)
Middle channel TX (GFSK)
High channel TX (GFSK)
Low channel TX(π/4-DQPSK)
Middle channel TX(π/4-DQPSK)
High channel TX (π/4-DQPSK)
Low channel TX(8DPSK)
Middle channel TX (8DPSK)
High channel TX (8DPSK)
BT Link

bK32566 RF Test - V1.3			ftware Setting			
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	]			<u>~</u>		
Send Clear			Send Cl	lear		

# **5. SYSTEM TEST CONFIGURATION**

# **5.1. CONFIGURATION OF EUT SYSTEM**

Configure 1: (Normal hopping)



# Configure 2: (Control continuous TX)



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

ITEM	EQUIPMENT	MFR/BRAND	MODEL/TYPE NO.	REMARK
1	TURNTABLE WITH BLUETOOTH FUNCTION	TIMSEN	TR-P262B	EUT
2	PC	Sony	E1412AYCW	A.E
3	PC Adapter	Sony	VGP-AC19V36	A.E
4	Control box	BEKEN	N/A	A.E
5	Adapter	RHD	RHD10W120050	EUT
6	USB Cable	N/A	1.0m Unshielded	A.E

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

# 6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
LocationBuilding 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.

# 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

# 8. ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHz)

	Radiat	ed Emission Tes	t Site		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	ROHDE & SCHWARZBECK	ESCI	101417	July 4, 2016	July 3, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2016	July 3, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2016	July 3, 2017
MULTI-DEVICE Positioning Controller	MAX-FULL	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	SCHWARZBECK	FMZB1519	1519-038	June 6, 2017	June 5, 2018
Spectrum analyzer	AGILENT	E4407B	MY46185649	June 6, 2017	June 5, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
temporary antenna connector	N/A	S100		July 4, 2016	July 3, 2017

	Radiat	ted Emission Tes	st Site		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	ROHDE & SCHWARZBECK	ESCI	101417	July 4, 2016	July 3, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2016	July 10, 2017
Spectrum Analyzer	AGILENT	E4411B	MY4511453	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2016	July 6, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2016	July 7, 2017
MULTI-DEVICE Positioning Controller	MAX-FULL	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	June 6, 2017	June 5, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018

# FOR RADIATED EMISSION TEST (1GHz ABOVE)

	Conducted Emission Test Site											
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration							
EMI Test Receiver	ROHDE & SCHWARZBECK	ESCI	101417	July 4, 2016	July 3, 2017							
Artificial Mains Network	NARDA	L2-16B	000WX31025	July 8, 2016	July 7, 2017							
Artificial Mains Network (AUX)	NARDA	L2-16B	000WX31026	July 8, 2016	July 7, 2017							
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2016	July 3, 2017							
Shielded Room	CHENGYU	843	PTS-002	June 6, 2017	June 5, 2018							
Conduction Cable	MXT	SE1	S003	June 6, 2017	June 5, 2018							

# 9. RADIATED EMISSION

# 9.1TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics
	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field	I Strengths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/m	ı (Peak)
		54.0 dB(μV)/n	n (Average)
Remark: (1) Emis	sion level dBµ V = 20 log	Emission level µ V/m	
(2) The s	smaller limit shall apply at	the cross point between two fr	equency bands

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 9.2. MEASUREMENT PROCEDURE

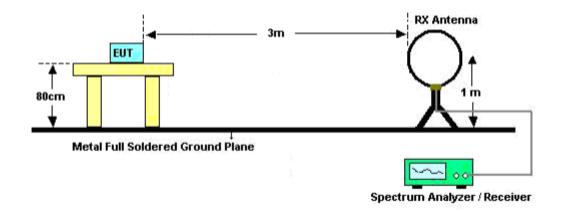
- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

Spectrum Parameter	Setting
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
Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/VBW 6MHz for Peak, RBW 1.5MHz/10Hz for Average
Receiver Parameter	Setting
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

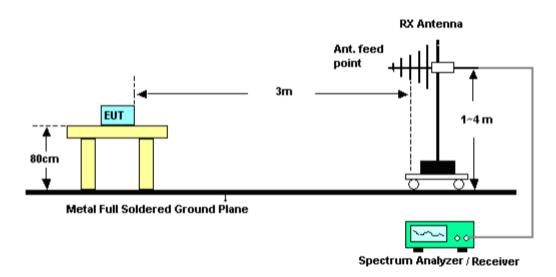
The following table is the setting of spectrum analyzer and receiver.

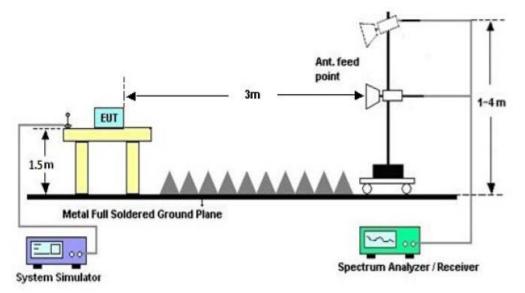
#### 9.3. TEST SETUP

#### RADIATED EMISSION TEST SETUP BELOW 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz

# 9.4. TEST RESULT (Worst modulation:GFSK) FOR BR/EDR

# **RADIATED EMISSION BELOW 30MHz**

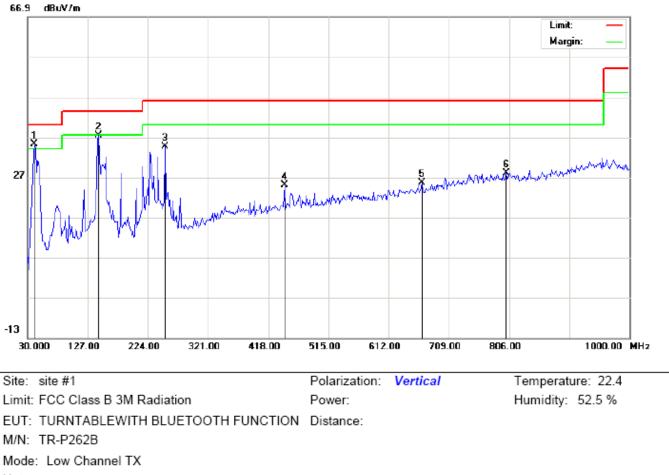
No emission found between lowest internal used/generated frequencies to 30MHz.

# 66.9 dBuV/m Limit: Margin: 2 27 -13 1000.00 MHz 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 Site: site #1 Polarization: Horizontal Temperature: 22.4 Humidity: 52.5 % Limit: FCC Class B 3M Radiation Power: EUT: TURNTABLEWITH BLUETOOTH FUNCTION Distance: M/N: TR-P262B Mode: Low Channel TX Note:

#### **RADIATED EMISSION BELOW 1GHz**

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		42.9333	10.39	11.71	22.10	40.00	-17.90	peak			
2	*	144.7833	24.38	14.04	38.42	43.50	-5.08	peak			
3		227.2333	18.09	9.22	27.31	46.00	-18.69	peak			
4		372.7333	11.41	18.89	30.30	46.00	-15.70	peak			
5		492.3667	9.40	21.05	30.45	46.00	-15.55	peak			
6		768.8167	1.51	26.89	28.40	46.00	-17.60	peak			



RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

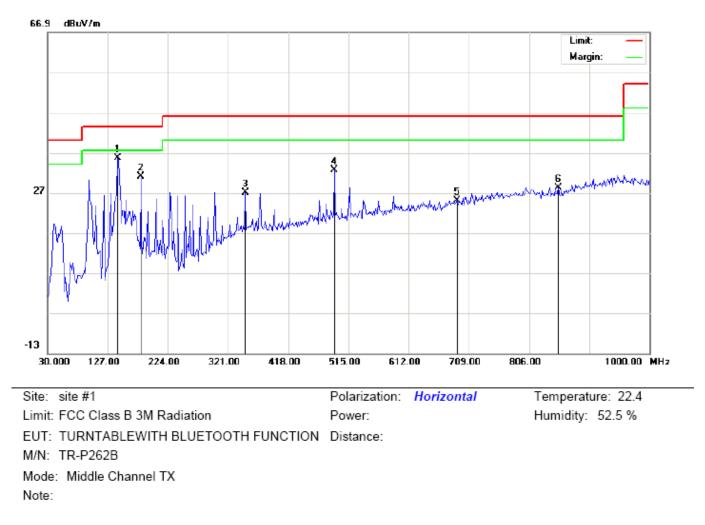
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	41.3167	26.39	8.81	35.20	40.00	-4.80	peak			
2		144.7833	22.20	15.23	37.43	43.50	-6.07	peak			
3		251.4833	20.69	13.94	34.63	46.00	-11.37	peak			
4		443.8667	4.59	20.40	24.99	46.00	-21.01	peak			
5		665.3500	1.37	24.26	25.63	46.00	-20.37	peak			
6		801.1500	0.72	27.32	28.04	46.00	-17.96	peak			

# **RESULT: PASS**

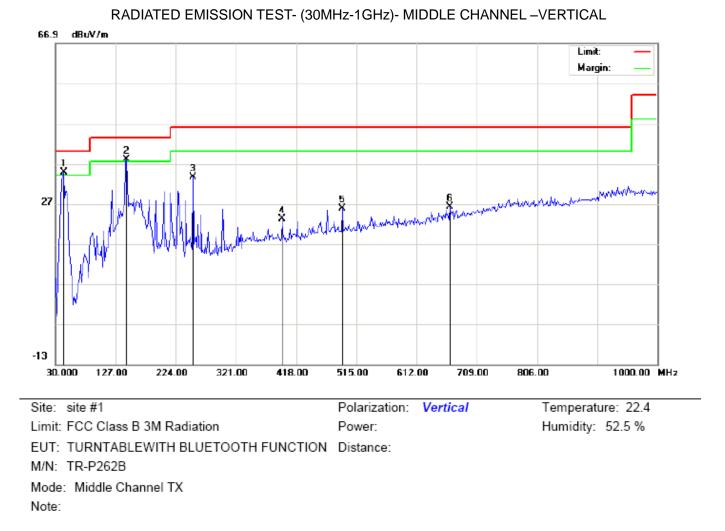
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



#### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	143.1667	21.15	14.43	35.58	43.50	-7.92	peak			
2		180.3500	19.87	11.09	30.96	43.50	-12.54	peak			
3		348.4833	8.34	18.64	26.98	46.00	-19.02	peak			
4		492.3667	11.53	21.05	32.58	46.00	-13.42	peak			
5		689.6000	0.06	24.91	24.97	46.00	-21.03	peak			
6		852.8833	0.79	27.38	28.17	46.00	-17.83	peak			

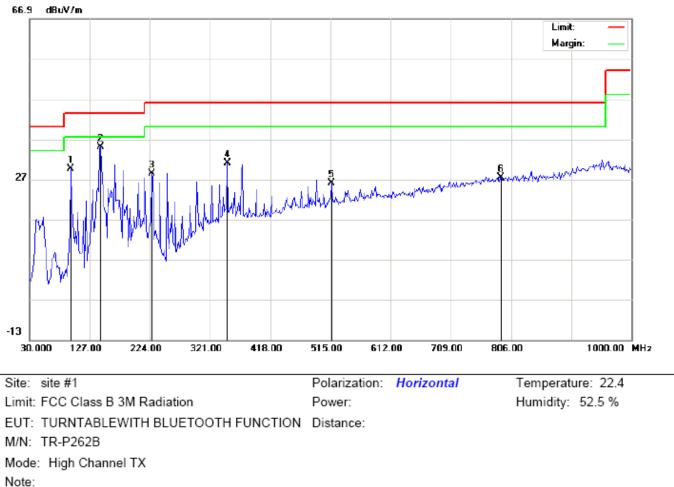


Antenna Table Reading Factor Measurement Limit Over Freq. Mk Height Degree No. Detector Comment dBu∨ MHz dB/m dBuV/m dBuV/m dB cm degree \* 42.9333 26.13 8.71 34.84 40.00 -5.16 1 peak 2 144.7833 22.82 15.23 38.05 43.50 -5.45 L peak 3 251.4833 19.73 13.94 33.67 46.00 -12.33 peak 4 395.3667 4.08 19.04 23.12 46.00 -22.88 peak 5 492.3667 4.82 21.05 25.87 46.00 -20.13 peak 6 665.3500 1.89 24.26 26.15 46.00 -19.85 peak

#### **RESULT: PASS**

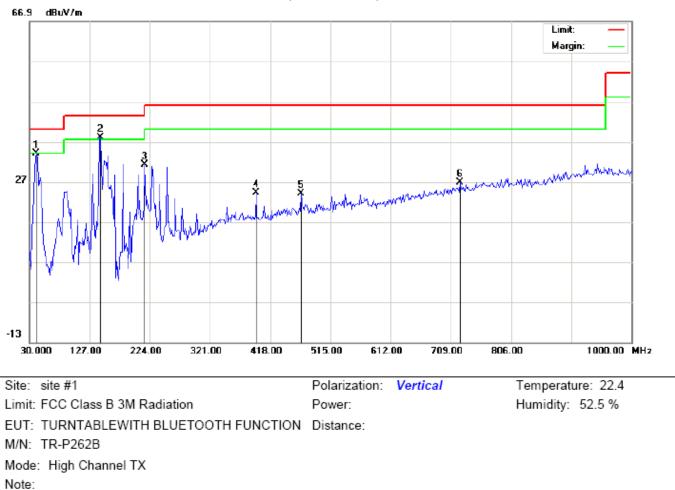
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		96.2833	22.87	6.77	29.64	43.50	-13.86	peak			
2	*	144.7833	20.88	14.04	34.92	43.50	-8.58	peak			
3		227.2333	19.27	9.22	28.49	46.00	-17.51	peak			
4		348.4833	12.36	18.64	31.00	46.00	-15.00	peak			
5		516.6167	4.52	21.58	26.10	46.00	-19.90	peak			
6		789.8333	0.32	27.18	27.50	46.00	-18.50	peak			



RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	İ	41.3167	25.27	8.81	34.08	40.00	-5.92	peak			
2	*	144.7833	22.86	15.23	38.09	43.50	-5.41	peak			
3		215.9167	20.64	10.56	31.20	43.50	-12.30	peak			
4		395.3667	5.18	19.04	24.22	46.00	-21.78	peak			
5		468.1167	3.17	20.79	23.96	46.00	-22.04	peak			
6		723.5500	0.91	25.87	26.78	46.00	-19.22	peak			

# **RESULT: PASS**

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

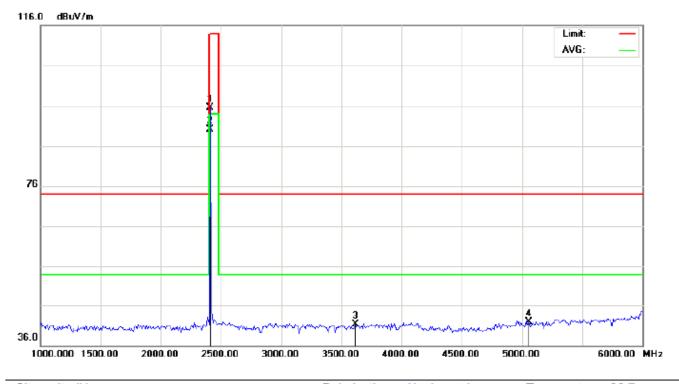
2. The "Factor" value can be calculated automatically by software of measurement system.

#### **RADIATED EMISSION ABOVE 1GHz**

#### (Worst modulation: GFSK)

#### FOR BR/EDR

#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



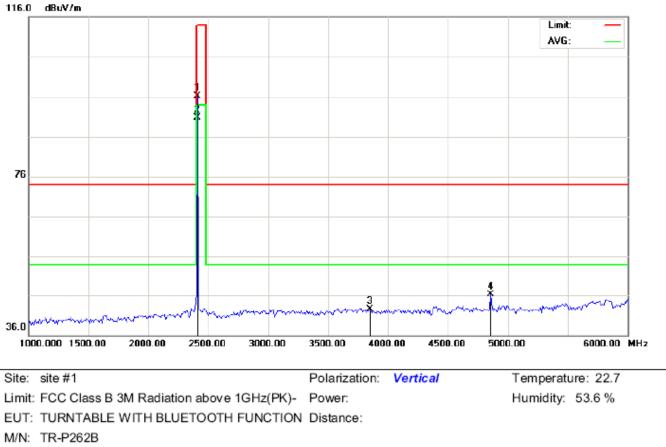
 Site:
 site #1
 Polarization:
 Horizontal
 Temperature:
 22.7

 Limit:
 FCC Class B 3M Radiation above 1GHz(PK) Power:
 Humidity:
 53.6 %

 EUT:
 TURNTABLE WITH BLUETOOTH FUNCTION
 Distance:
 M/N:
 TR-P262B

 Mode:
 Low Channel TX
 Note:
 Vote:
 Vote:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	85.20	10.32	95.52	114.00	-18.48	peak			
2	*	2402.000	79.86	10.32	90.18	94.00	-3.82	AVG			
3		3616.667	28.45	12.83	41.28	74.00	-32.72	peak			
4		5058.333	34.89	7.03	41.92	74.00	-32.08	peak			

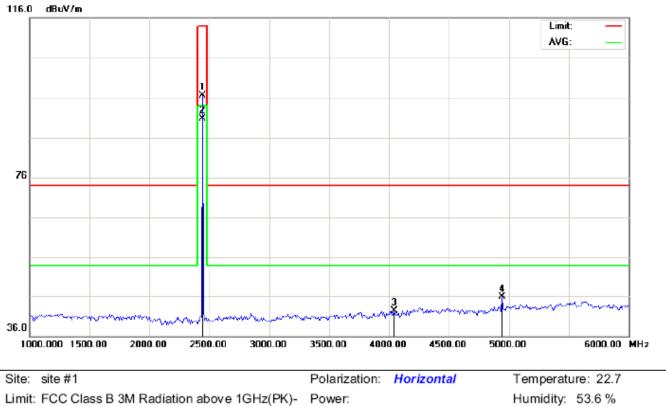


RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

Mode: Low Channel TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	85.81	10.32	96.13	114.00	-17.87	peak			
2	*	2402.000	80.37	10.32	90.69	94.00	-3.31	AVG			
3		3850.000	28.24	14.27	42.51	74.00	-31.49	peak			
4		4858.333	38.45	7.83	46.28	74.00	-27.72	peak			

**RESULT: PASS** 



RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

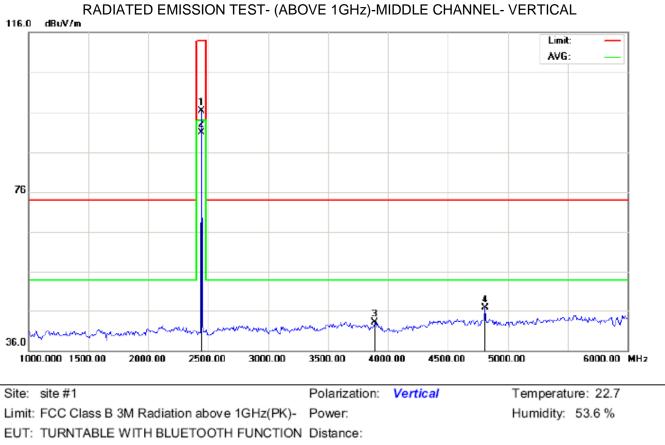
EUT: TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N: TR-P262B

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	86.23	10.37	96.60	114.00	-17.40	peak			
2	*	2441.000	80.41	10.37	90.78	94.00	-3.22	AVG			
3		4041.667	27.78	14.50	42.28	74.00	-31.72	peak			
4		4941.659	37.87	8.05	45.92	74.00	-28.08	peak			

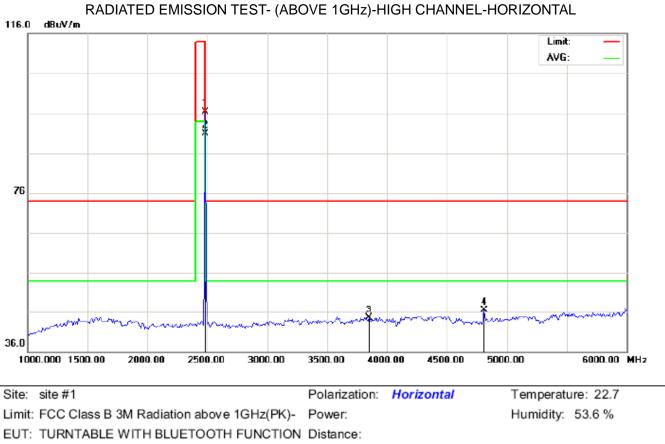


M/N: TR-P262B

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	85.98	10.37	96.35	114.00	-17.65	peak			
2	*	2441.000	80.46	10.37	90.83	94.00	-3.17	AVG			
3		3891.667	28.65	14.52	43.17	74.00	-30.83	peak			
4		4808.347	39.21	7.70	46.91	74.00	-27.09	peak			

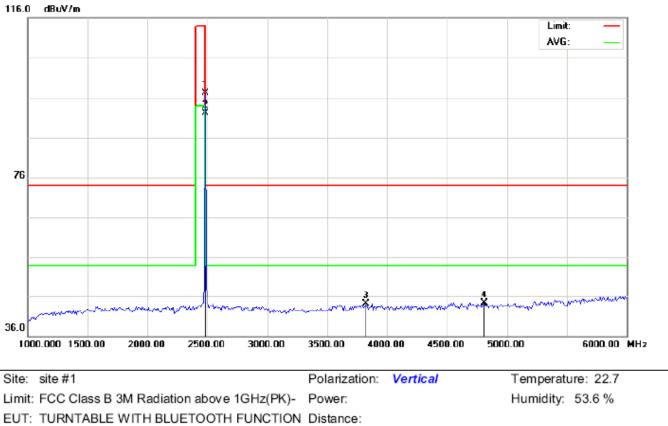


M/N: TR-P262B

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	85.97	10.41	96.38	114.00	-17.62	peak			
2	*	2480.000	80.49	10.41	90.90	94.00	-3.10	AVG			
3		3850.000	30.25	14.27	44.52	74.00	-29.48	peak			
4		4808.356	38.72	7.70	46.42	74.00	-27.58	peak			



#### RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL

M/N: TR-P262B

Mode: High Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	86.69	10.41	97.10	114.00	-16.90	peak			
2	*	2480.000	81.64	10.41	92.05	94.00	-1.95	AVG			
3		3825.000	30.06	14.11	44.17	74.00	-29.83	peak			
4		4808.348	36.59	7.70	44.29	74.00	-29.71	peak			

# **RESULT: PASS**

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

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

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

# Field strength of the fundamental signal

# 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.20	10.32	95.52	114	-18.48	Horizontal
2402	85.81	10.32	96.13	114	-17.87	Vertical
2441	86.23	10.36	96.60	114	-17.40	Horizontal
2441	85.98	10.36	96.35	114	-17.65	Vertical
2480	85.97	10.41	96.38	114	-17.62	Horizontal
2480	86.69	10.41	97.10	114	-16.90	Vertical

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.86	10.32	90.18	94	-3.82	Horizontal
2402	80.37	10.32	90.69	94	-3.31	Vertical
2441	80.41	10.36	90.78	94	-3.22	Horizontal
2441	80.46	10.36	90.83	94	-3.17	Vertical
2480	80.49	10.41	90.90	94	-3.10	Horizontal
2480	81.64	10.41	92.05	94	-1.95	Vertical

# 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.70	10.32	96.02	114	-17.98	Horizontal
2402	85.57	10.32	95.89	114	-18.11	Vertical
2441	86.12	10.36	96.48	114	-17.52	Horizontal
2441	85.99	10.36	96.35	114	-17.65	Vertical
2480	86.58	10.41	96.99	114	-17.01	Horizontal
2480	86.45	10.41	96.86	114	-17.14	Vertical

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.29	10.32	90.61	94	-3.39	Horizontal
2402	80.16	10.32	90.48	94	-3.52	Vertical
2441	80.23	10.36	90.59	94	-3.41	Horizontal
2441	80.09	10.36	90.45	94	-3.55	Vertical
2480	81.53	10.41	91.94	94	-2.06	Horizontal
2480	81.40	10.41	91.81	94	-2.19	Vertical

# 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.49	10.32	95.81	114	-18.19	Horizontal
2402	85.42	10.32	95.74	114	-18.26	Vertical
2441	85.92	10.36	96.28	114	-17.72	Horizontal
2441	85.87	10.36	96.23	114	-17.77	Vertical
2480	86.34	10.41	96.75	114	-17.25	Horizontal
2480	86.27	10.41	96.68	114	-17.32	Vertical

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.04	10.32	90.36	94	-3.64	Horizontal
2402	79.96	10.32	90.28	94	-3.72	Vertical
2441	79.95	10.36	90.31	94	-3.69	Horizontal
2441	79.85	10.36	90.21	94	-3.79	Vertical
2480	81.28	10.41	91.69	94	-2.31	Horizontal
2480	81.16	10.41	91.57	94	-2.43	Vertical

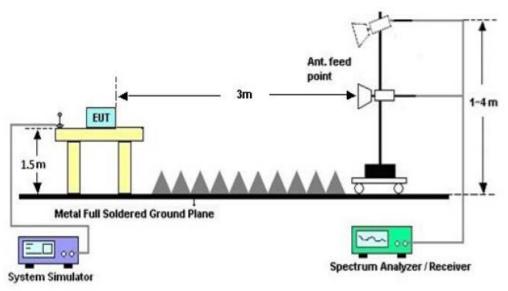
# **10. BAND EDGE EMISSION**

# **10.1. MEASUREMENT PROCEDURE**

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

#### **10.2 TEST SETUP**



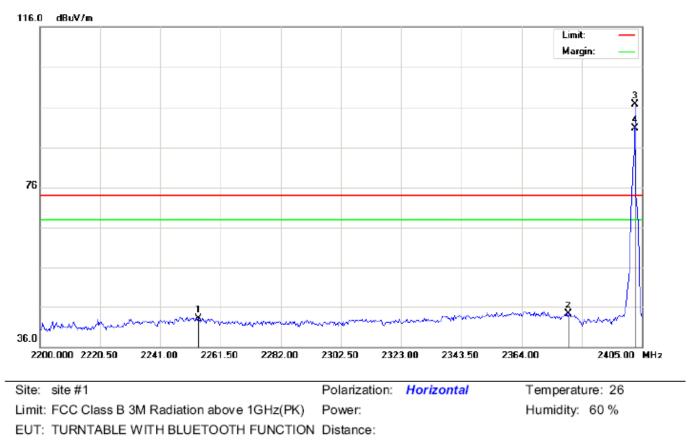
# RADIATED EMISSION TEST SETUP

#### **10.3 RADIATED TEST RESULT**

#### (Worst modulation: GFSK)

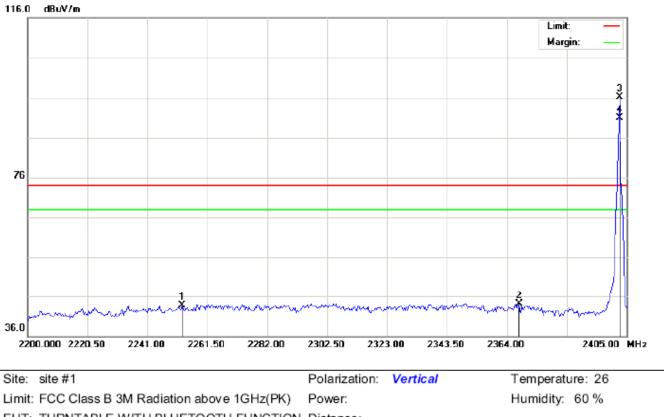
#### FOR BR/EDR

#### TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



M/N: TR-P262B Mode: Low Channel TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2253.983	32.96	10.16	43.12	74.00	-30.88	peak			
2		2380.058	34.06	10.30	44.36	74.00	-29.64	peak			
3	*	2402.000	86.48	10.32	96.80	74.00	22.80	peak			
4	х	2402.000	80.44	10.32	90.76	74.00	16.76	AVG			



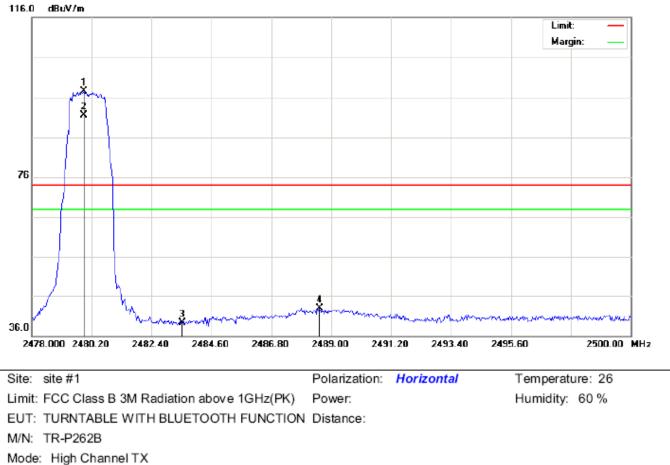
#### TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

EUT: TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N: TR-P262B

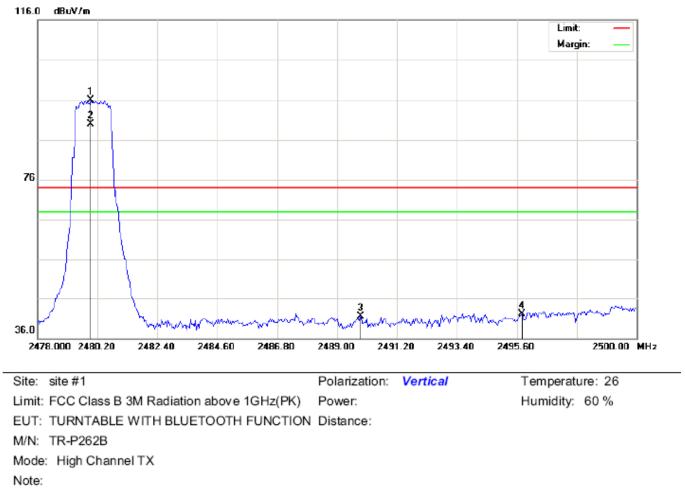
Mode: Low Channel TX

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2252.958	33.51	10.16	43.67	74.00	-30.33	peak			
2		2368.100	33.82	10.28	44.10	74.00	-29.90	peak			
3	*	2402.000	85.80	10.32	96.12	74.00	22.12	peak			
4	Х	2402.000	80.53	10.32	90.85	74.00	16.85	AVG			



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.01	10.41	97.42	74.00	23.42	peak			
2	Х	2480.000	81.07	10.41	91.48	74.00	17.48	AVG			
3		2483.537	28.82	10.41	39.23	74.00	-34.77	peak			
4		2488.560	32.57	10.42	42.99	74.00	-31.01	peak			



#### TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.45	10.41	95.86	74.00	21.86	peak			
2	х	2480.000	79.58	10.41	89.99	74.00	15.99	AVG			
3		2489.880	31.11	10.42	41.53	74.00	-32.47	peak			
4		2495.783	31.60	10.43	42.03	74.00	-31.97	peak			

#### **RESULT: PASS**

**Note**: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

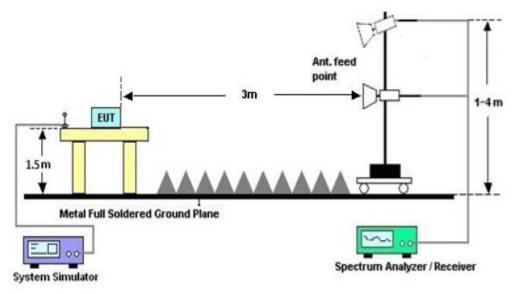
Hopping on mode and Hopping off mode have been tested, but only worst case reported.

# 11. 20DB BANDWIDTH

## **11.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

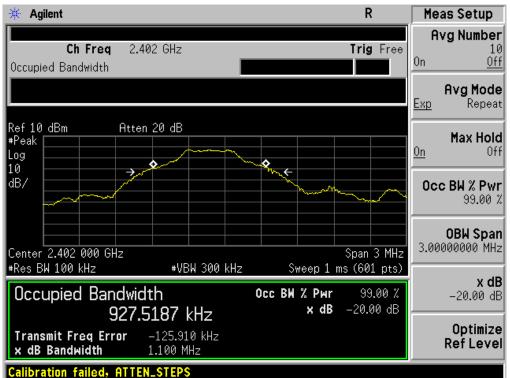
#### 11.2. TEST SET-UP



#### **11.3. LIMITS AND MEASUREMENT RESULTS**

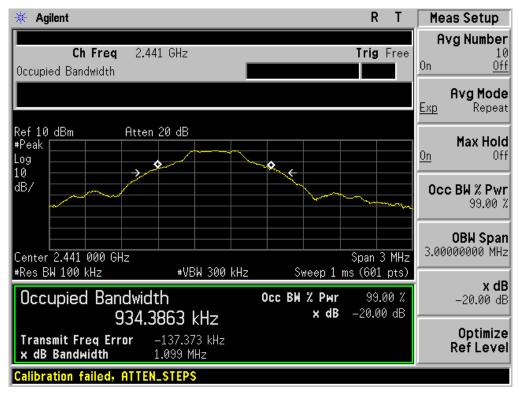
#### FOR BR/EDR

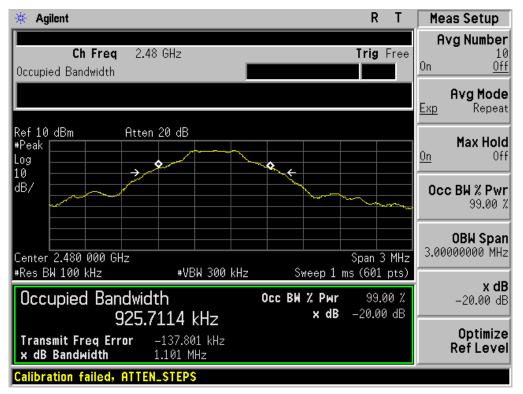
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Dec. K							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
	Low Channel	0.928	1.100	PASS					
N/A	Middle Channel	0.934	1.099	PASS					
	High Channel	0.926	1.101	PASS					



#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

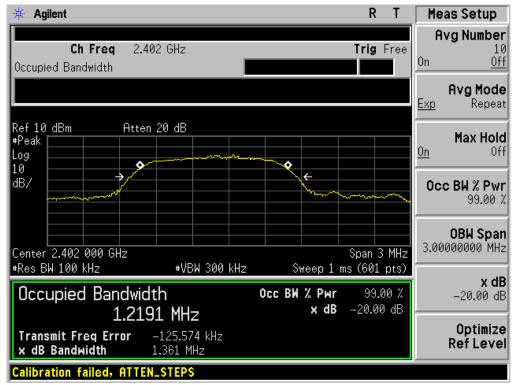


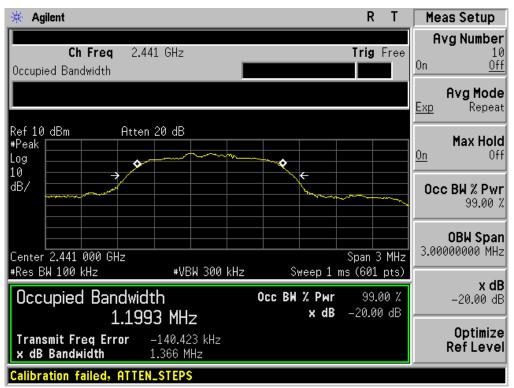


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Decult							
		Result							
	Low Channel	1.219	1.361	PASS					
N/A	Middle Channel	1.199	1.366	PASS					
	High Channel	1.211	1.352	PASS					

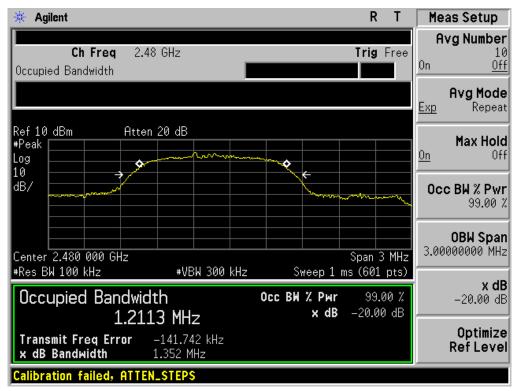
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





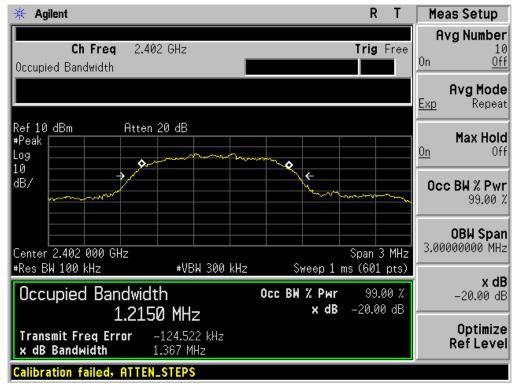
# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

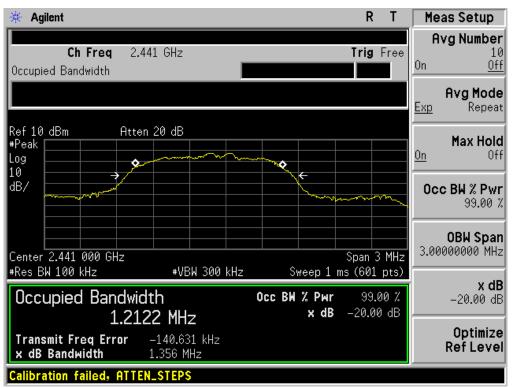
## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz) -20dB BW(MHz)							
	Low Channel	1.215	1.367	PASS					
N/A	Middle Channel	1.212	1.356	PASS					
	High Channel	1.209	1.372	PASS					

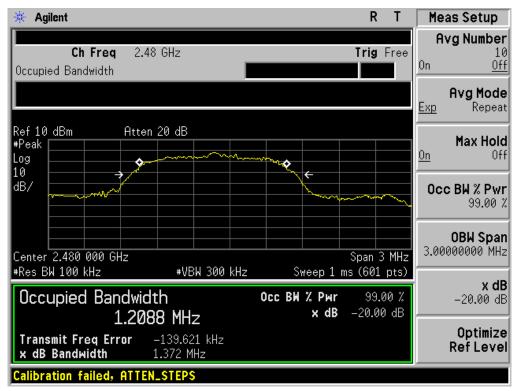
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



# **12. FCC LINE CONDUCTED EMISSION TEST**

# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

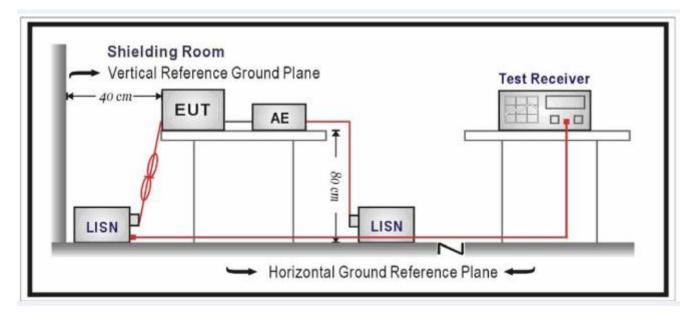
Frequency	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

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.

#### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



# 12.3. 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 DC charging voltage by adapter which 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.

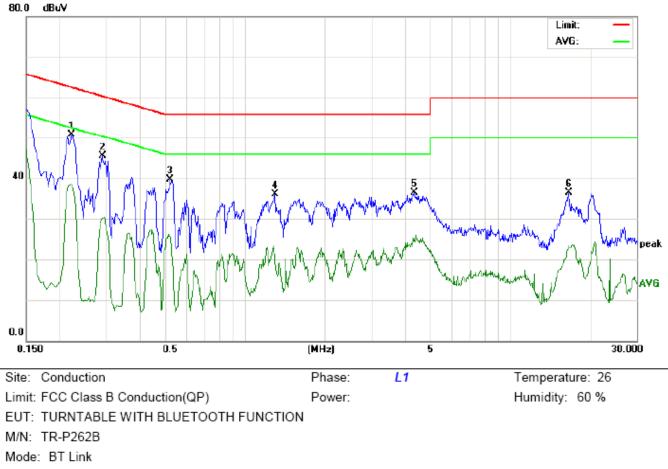
# 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. 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.

# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

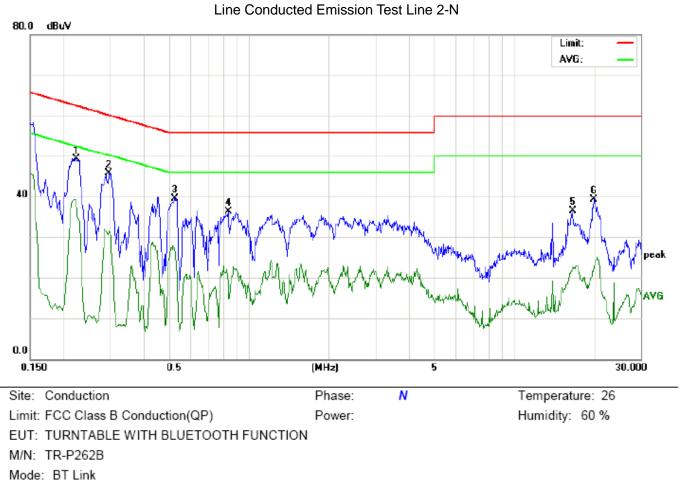
# FOR BR/EDR

Line Conducted Emission Test Line 1-L



Note:

No.	Freq.	Reading_Level (dBuV)				Measurement (dBuV)		Limit (dBuV)		Margin (dB)		P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2220	40.72		28.28	10.24	50.96		38.52	62.74	52.74	-11.78	-14.22	Р	
2	0.2899	35.12		19.82	10.29	45.41		30.11	60.52	50.52	-15.11	-20.41	Ρ	
3	0.5220	29.24		15.53	10.38	39.62		25.91	56.00	46.00	-16.38	-20.09	Р	
4	1.2980	25.68		9.74	10.38	36.06		20.12	56.00	46.00	-19.94	-25.88	Ρ	
5	4.3498	26.15		14.62	10.28	36.43		24.90	56.00	46.00	-19.57	-21.10	Р	
6	16.6418	26.30		12.66	10.12	36.42		22.78	60.00	50.00	-23.58	-27.22	Р	



Note:

No.	No. Freq.		Reading_Level (dBuV)		Correct Measurement Factor (dBuV)		Limit (dBuV)		Margin (dB)		P/F	Comment		
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2232	39.03		27.93	10.24	49.27		38.17	62.70	52.70	-13.43	-14.53	Ρ	
2	0.2977	35.31		21.14	10.29	45.60		31.43	60.30	50.30	-14.70	-18.87	Ρ	
3	0.5260	29.10		16.85	10.38	39.48		27.23	56.00	46.00	-16.52	-18.77	Ρ	
4	0.8378	25.92		8.54	10.33	36.25		18.87	56.00	46.00	-19.75	-27.13	Ρ	
5	16.6497	26.30		12.84	10.12	36.42		22.96	60.00	50.00	-23.58	-27.04	Р	
6	20.0338	29.23		12.56	10.11	39.34		22.67	60.00	50.00	-20.66	-27.33	Ρ	

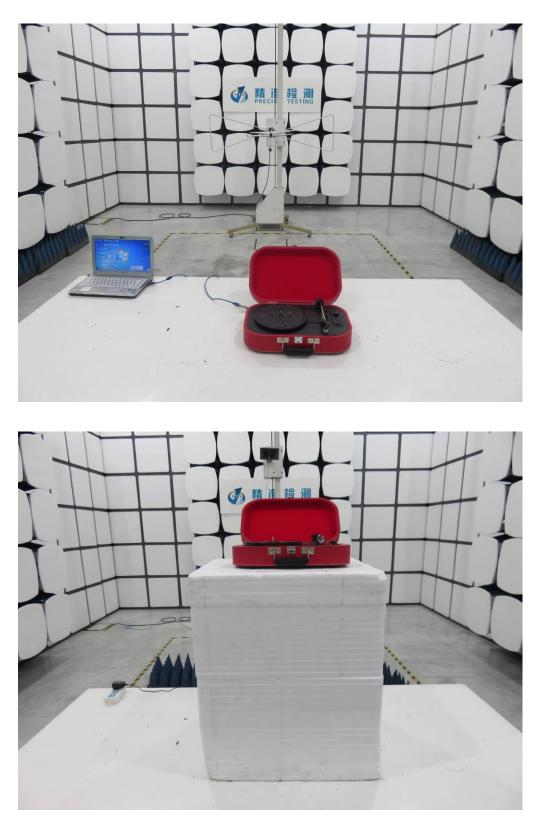
# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



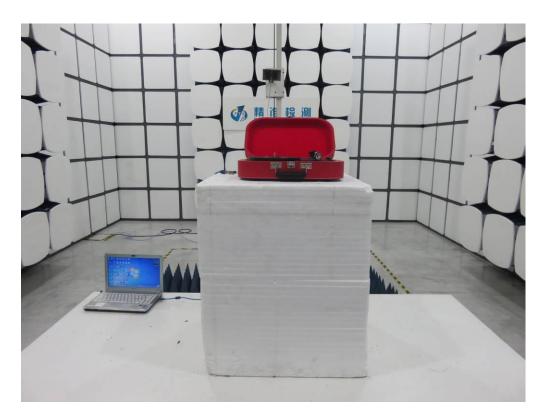
FCC RADIATED EMISSION TEST SETUP



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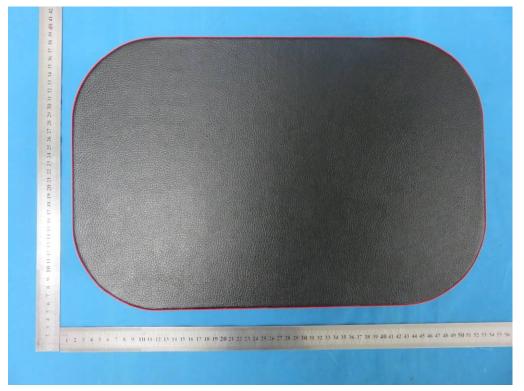


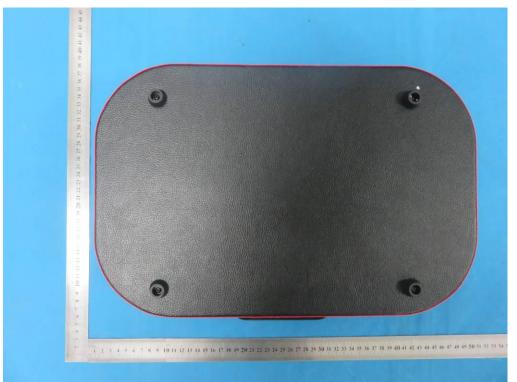
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# APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT

TOP VIEW OF EUT





BOTTOM VIEW OF EUT

FRONT VIEW OF EUT

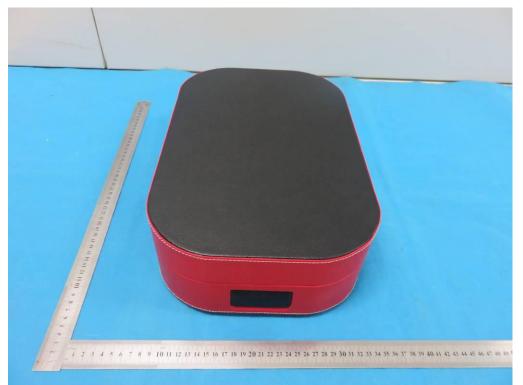


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#### LEFT VIEW OF EUT



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**RIGHT VIEW OF EUT** 

VIEW OF EUT (PORT)-1



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VIEW OF EUT (PORT)-2

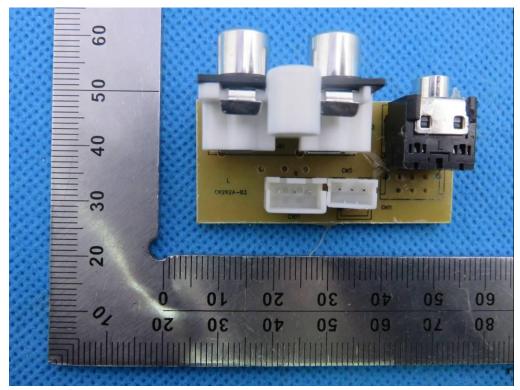
**OPEN VIEW OF EUT-1** 

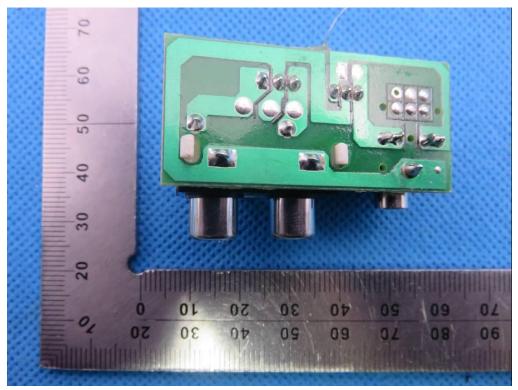


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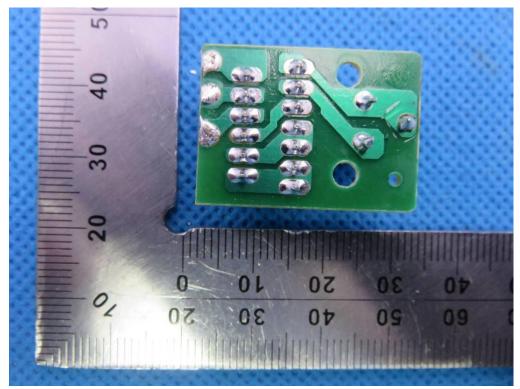


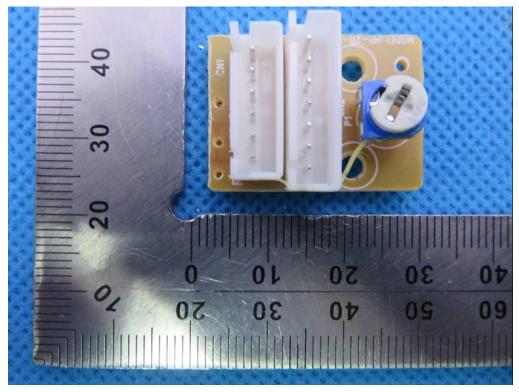
**OPEN VIEW OF EUT-2** 



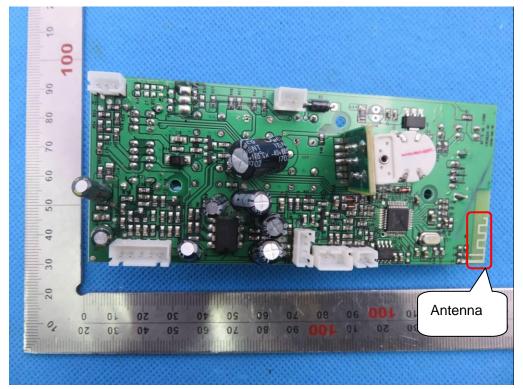


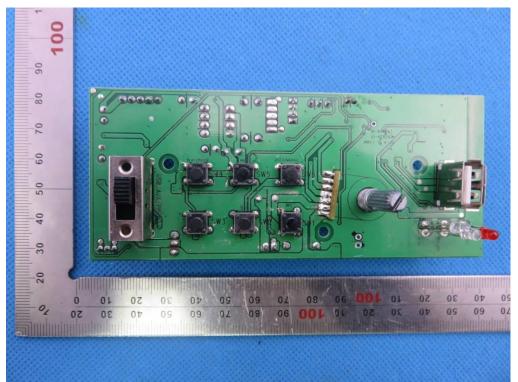
**INTERNAL VIEW OF EUT-3** 



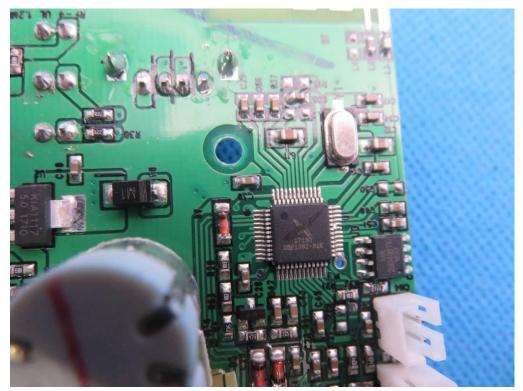


**INTERNAL VIEW OF EUT-4** 





**INTERNAL VIEW OF EUT-6** 





#### VIEW OF ADAPTER

----END OF REPORT----