FCC Test Report

Report No.: AGC03444161002FE03

FCC ID : 2ACX8CR8005D-TU

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: TURNTABLE WITH BLUETOOTH FUNCTION

BRAND NAME : CROSLEY

MODEL NAME : CR8005D-TU, CR8005D-XX

CLIENT: TIMSEN INTERNATIONAL LIMITED

DATE OF ISSUE : Oct.14, 2016

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct.14, 2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	TIMSEN INTERNATIONAL LIMITED		
Address	5F,447 Tianhe Bei Road,Guangzhou.China		
Manufacturer	TIMSEN INTERNATIONAL LIMITED		
Address	5F,447 Tianhe Bei Road,Guangzhou.China		
Product Designation	TURNTABLE WITH BLUETOOTH FUNCTION		
Brand Name	CROSLEY		
Test Model	CR8005D-TU		
Series Model	CR8005D-XX		
Difference description	All the same except for the appearance color.		
Date of test	Oct.09, 2016 to Oct.11, 2016		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF		

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.

Tested By	Strive Liang	
,	Strive Liang(Liang Faqiang)	Oct.14, 2016
Reviewed By	Foresto ce	
	Forrest Lei(Lei Yonggang)	Oct.14, 2016
Approved By	Solya shong	
	Solger Zhang(Zhang Hongyi) Authorized Officer	Oct.14, 2016

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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	0.94dBm(Max EIRP Power=Max radiation field-95.2)		
Bluetooth Version	V4.2		
Modulation	GFSK ,π /4-DQPSK, 8DPSK		
Number of channels	79 for BR/EDR		
Hardware Version	V4.0		
Software Version	V4.00		
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)		
Antenna Gain	0dBi		
Power Supply(by adapter-1)	Input: AC 100-240V 50/60Hz Output: DC 12V 500mA		
Power Supply(by adapter-2)	Input: AC 100-240V 50/60Hz Output: DC 12V 500mA		

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		

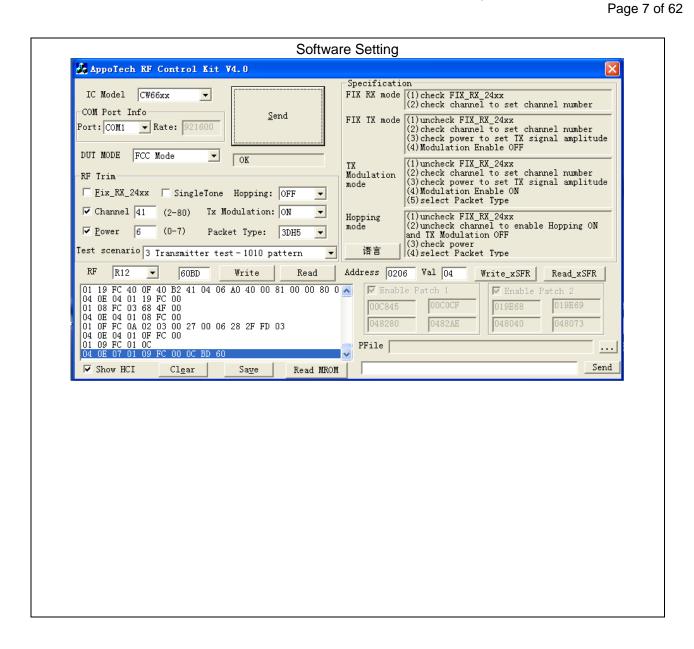
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3. MEASUREMENT UNCERTAINTY

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 % o

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

NO.	TEST MODE DESCRIPTION	
1	Low channel GFSK	
2	Middle channel GFSK	
3	High channel GFSK	
4	Low channel π /4-DQPSK	
5	Middle channel π /4-DQPSK	
6	High channel π /4-DQPSK	
7	Low channel 8DPSK	
8	Middle channel 8DPSK	
9	High channel 8DPSK	
10	BT Link	
<u> </u>		

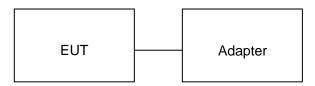


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5. SYSTEM TEST CONFIGURATION

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	CROSLEY	CR8005D-TU	EUT
2	PC	Sony	E1412AYCW	A.E
3	Control box	DOFLY	LY-USB-TTL	A.E
4	Adapter-1	N/A	RHD10W120050	Accessory
5	Adapter-2	XING YUAN	XY-1200500U	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

Site Dongguan Precise Testing Service Co., Ltd.	
Location Building D,Baoding Technology Park,Guangming Road2,Dongcheng Dist 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.

TEST METHODOLOGY

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

7. ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
EMI Test Receiver	Rohde & Schwarz	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	
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 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, 2016	June 5, 2017	
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2016	June 5, 2017	
Radiation Cable 1	MXT	RS1	R005	June 6, 2016	June 5, 2017	
Radiation Cable 2	MXT	RS1	R006	June 6, 2016	June 5, 2017	

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FOR RADIATED EMISSION TEST (1GHZ ABOVE)

TORTOLOGICAL ENGINEER		ted Emission Tes	st Site		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	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
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 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, 2016	June 5, 2017
Radiation Cable 1	MXT	RS1	R005	June 6, 2016	June 5, 2017
Radiation Cable 2	MXT	RS1	R006	June 6, 2016	June 5, 2017

	Conducted Emission Test Site												
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration								
EMI Test Receiver	Rohde & Schwarz	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, 2016	June 5, 2017								
Conduction Cable	MXT	SE1	S003	June 6, 2016	June 5, 2017								

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8. RADIATED EMISSION

8.1TEST 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	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	Other:74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)				

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (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.

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8.2. 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)

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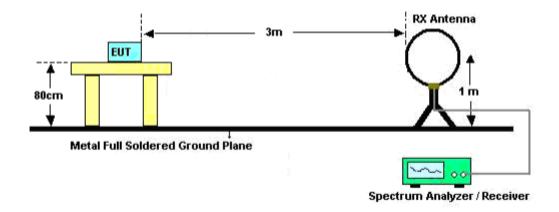
The following table is the setting of spectrum analyzer and receiver.

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 1MHz/3MHz for Peak, 1MHz/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

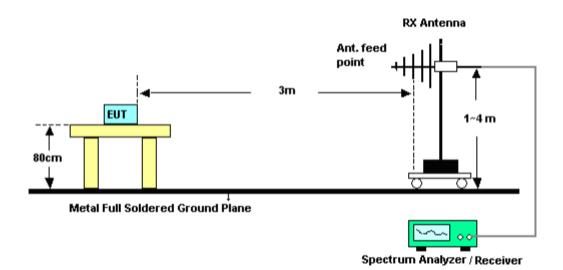
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8.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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8.4. TEST RESULT

(Worst modulation: GFSK)

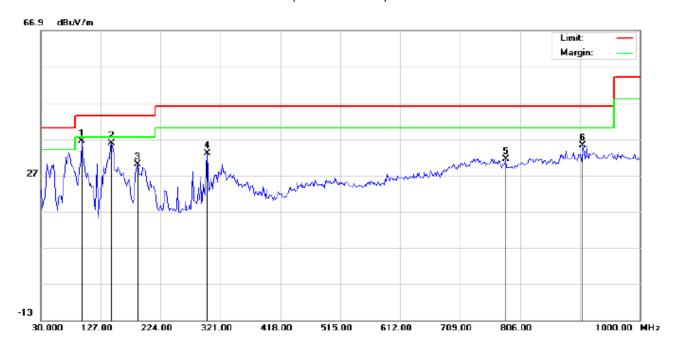
FOR BR/EDR

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 23.4
Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

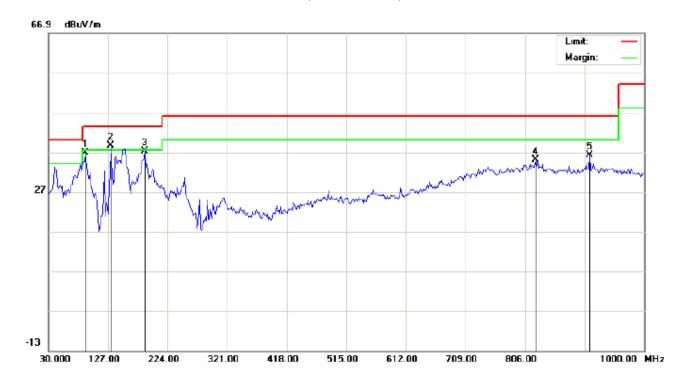
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU Mode:Low Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	96.2831	29.72	6.77	36.49	43.50	-7.01	peak	·	·	_
2		144.7832	21.84	14.04	35.88	43.50	-7.62	peak			
3		186.8166	18.65	11.39	30.04	43.50	-13.46	peak			
4		299.9832	17.64	15.41	33.05	46.00	-12.95	peak			
5		783.3667	4.29	27.09	31.38	46.00	-14.62	peak		·	
6		907.8500	6.30	28.83	35.13	46.00	-10.87	peak	·		

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 23.4 Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU Mode:Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	31.57	5.31	36.88	43.50	-6.62	peak			
2	*	131.8497	26.78	11.80	38.58	43.50	-4.92	peak			
3		186.8165	24.83	12.34	37.17	43.50	-6.33	peak			
4		823.7833	7.59	27.32	34.91	46.00	-11.09	peak			
5		911.0833	7.24	28.92	36.16	46.00	-9.84	peak			

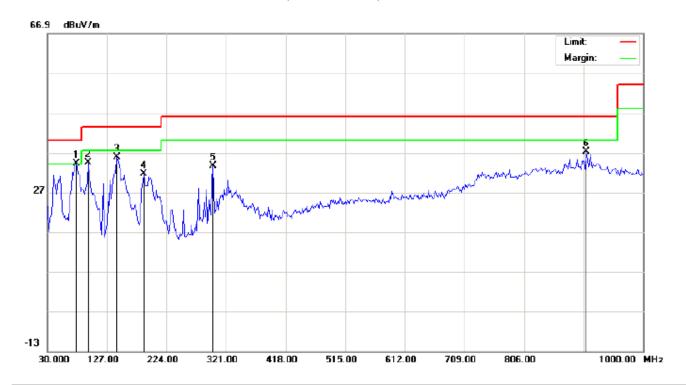
RESULT: PASS

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

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

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 23.4
Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

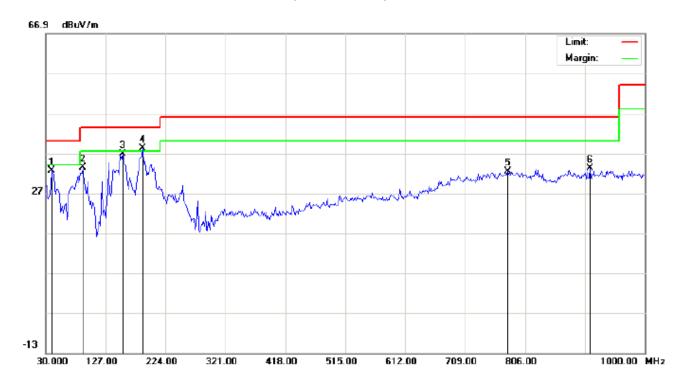
Mode:Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	76.8833	30.69	3.54	34.23	40.00	-5.77	peak			
2		96.2831	27.72	6.77	34.49	43.50	-9.01	peak			
3		143.1665	21.29	14.43	35.72	43.50	-7.78	peak			
4		186.8166	20.15	11.39	31.54	43.50	-11.96	peak			
5		299.9832	18.14	15.41	33.55	46.00	-12.45	peak			
6		907.8500	8.30	28.83	37.13	46.00	-8.87	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 23.4
Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

Mode:Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		39.7000	24.19	8.51	32.70	40.00	-7.30	peak			
2		89.8165	28.07	5.31	33.38	43.50	-10.12	peak			
3		154.4833	21.45	15.29	36.74	43.50	-6.76	peak			
4	*	186.8165	25.83	12.34	38.17	43.50	-5.33	peak			
5		778.5167	5.47	27.02	32.49	46.00	-13.51	peak			
6		911.0833	4.24	28.92	33.16	46.00	-12.84	peak			

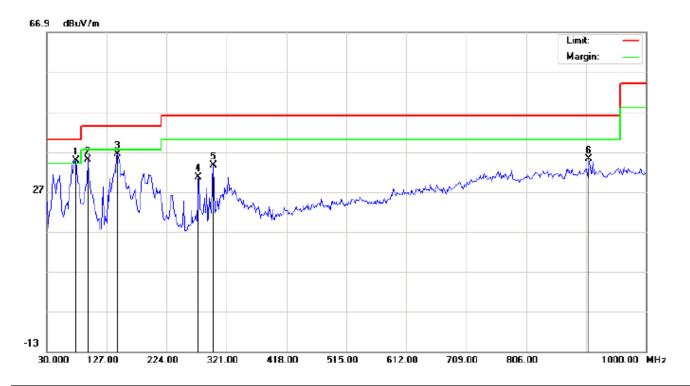
RESULT: PASS

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

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

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 23.4
Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

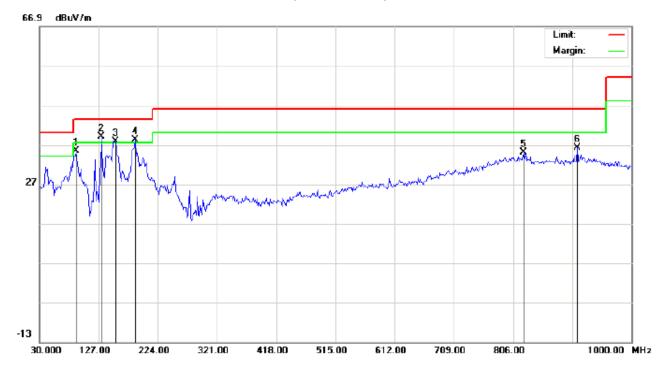
M/N:CR8005D-TU Mode:High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	76.8833	31.19	3.54	34.73	40.00	-5.27	peak			
2		96.2831	28.22	6.77	34.99	43.50	-8.51	peak			
3		144.7832	22.34	14.04	36.38	43.50	-7.12	peak			
4		275.7332	19.25	11.28	30.53	46.00	-15.47	peak			
5		299.9832	18.14	15.41	33.55	46.00	-12.45	peak			
6		907.8500	6.30	28.83	35.13	46.00	-10.87	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 23.4 Limit: FCC Class B 3M Radiation Power: Humidity: 56.5 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU Mode:High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	30.07	5.31	35.38	43.50	-8.12	peak			
2	*	131.8497	27.28	11.80	39.08	43.50	-4.42	peak			
3	İ	154.4833	22.45	15.29	37.74	43.50	-5.76	peak			
4	İ	186.8165	25.83	12.34	38.17	43.50	-5.33	peak			
5		823.7833	7.59	27.32	34.91	46.00	-11.09	peak			
6		911.0833	7.24	28.92	36.16	46.00	-9.84	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.

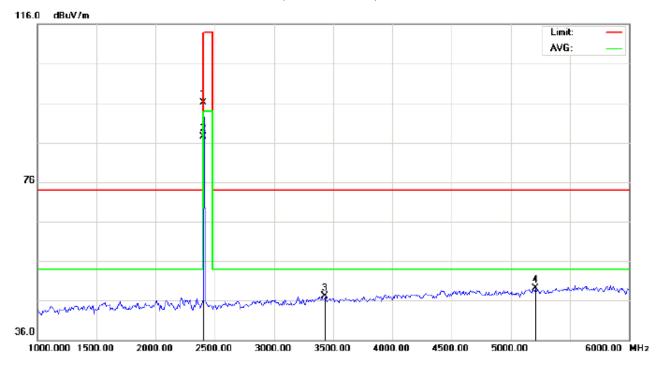
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RADIATED EMISSION ABOVE 1GHZ

(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:

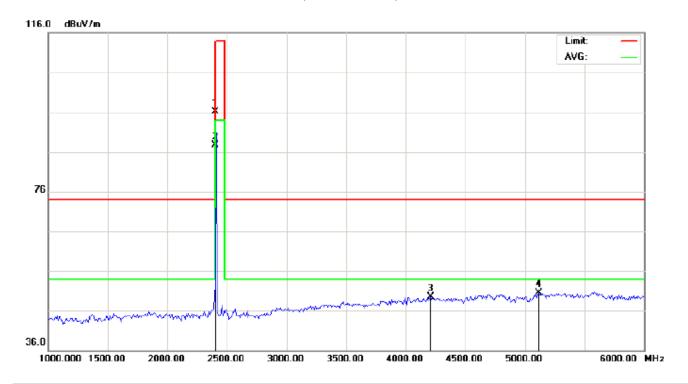
M/N:CR8005D-TU Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	85.71	10.32	96.03	114.00	-17.97	peak			
2	*	2402.000	77.27	10.32	87.59	94.00	-6.41	AVG	150	179	
3		3433.333	35.09	12.05	47.14	74.00	-26.86	peak			
4		5208.333	45.13	4.03	49.16	74.00	-24.84	peak			

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



Temperature: 22.7 Site: site #1 Polarization: Vertical Humidity: 53.6 %

Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power:

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

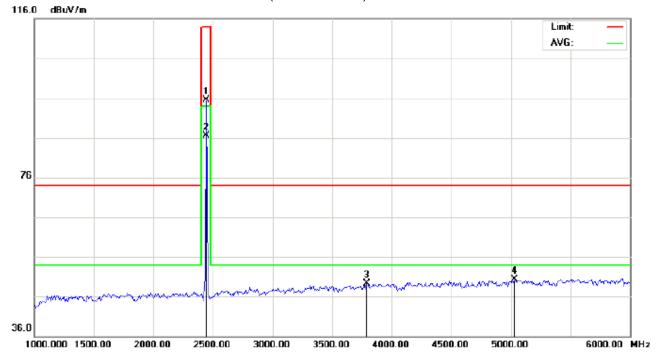
M/N:CR8005D-TU Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	85.82	10.32	96.14	114.00	-17.86	peak			
2	*	2402.000	77.43	10.32	87.75	94.00	-6.25	AVG	150	132	
3		4208.333	37.81	11.73	49.54	74.00	-24.46	peak			
4		5116.667	44.68	5.86	50.54	74.00	-23.46	peak			

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RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE 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:CR8005D-TU

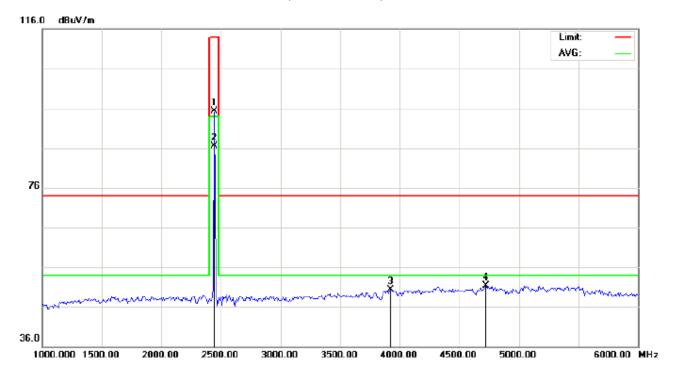
Mode: Middle Channel TX

Note:

No	М.	1k	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	. [MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1			2441.000	85.24	10.36	95.60	114.00	-18.40	peak			
2	*	*	2441.000	76.23	10.36	86.59	94.00	-7.41	AVG	150	189	
3			3791.667	35.32	13.91	49.23	74.00	-24.77	peak			
4			5033.333	42.82	7.53	50.35	74.00	-23.65	peak			

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RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL



Site: site #1 Polarization: Vertical Temperature: 22.7
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

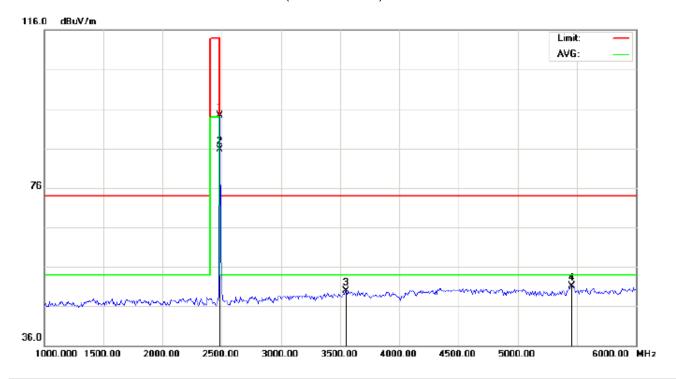
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2441.000	84.99	10.36	95.35	114.00	-18.65	peak			
2	*	2441.000	76.08	10.36	86.44	94.00	-7.56	AVG	150	27	
3		3925.000	35.58	14.73	50.31	74.00	-23.69	peak			
4		4725.000	43.81	7.48	51.29	74.00	-22.71	peak			

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RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH 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:

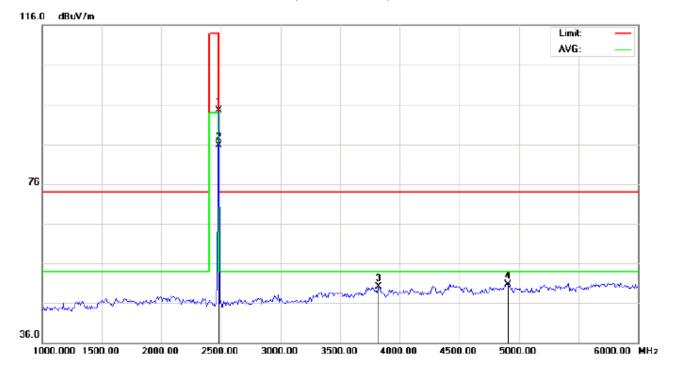
M/N:CR8005D-TU Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	83.97	10.41	94.38	114.00	-19.62	peak			
2	*	2480.000	75.28	10.41	85.69	94.00	-8.31	AVG	100	127	
3		3550.000	37.39	12.42	49.81	74.00	-24.19	peak			
4		5458.333	52.05	-0.98	51.07	74.00	-22.93	peak			

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RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1 Polarization: Vertical Temperature: 22.7
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	84.19	10.41	94.60	114.00	-19.40	peak			
2	*	2480.000	75.35	10.41	85.76	94.00	-8.24	AVG	100	115	
3		3825.000	36.06	14.11	50.17	74.00	-23.83	peak			
4		4908.333	42.73	7.96	50.69	74.00	-23.31	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.

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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	85.71	10.32	96.03	114	-17.97	Horizontal
2402	85.72	10.32	96.14	114	-17.86	Vertical
2441	85.24	10.36	95.60	114	-18.40	Horizontal
2441	84.99	10.36	95.35	114	-18.65	Vertical
2480	83.97	10.41	94.38	114	-19.62	Horizontal
2480	84.19	10.41	94.60	114	-19.40	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.27	10.32	87.59	94	-6.41	Horizontal
2402	77.43	10.32	87.75	94	-6.25	Vertical
2441	76.23	10.36	86.59	94	-7.41	Horizontal
2441	76.08	10.36	86.44	94	-7.56	Vertical
2480	75.28	10.41	85.69	94	-8.31	Horizontal
2480	75.35	10.41	85.76	94	-8.24	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Factor Measuren		Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.25	10.32	95.57	114	-18.43	Horizontal
2402	85.30	10.32	95.62	114	-18.38	Vertical
2441	84.72	10.36	95.08	114	-18.92	Horizontal
2441	84.90	10.36	95.26	114	-18.74	Vertical
2480	83.50	10.41	93.91	114	-20.09	Horizontal
2480	83.56	10.41	93.97	114	-20.03	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.77	10.32	87.09	94	-6.91	Horizontal
2402	76.82	10.32	87.14	94	-6.86	Vertical
2441	75.89	10.36	86.25	94	-7.75	Horizontal
2441	75.93	10.36	86.29	94	-7.71	Vertical
2480	74.76	10.41	85.17	94	-8.83	Horizontal
2480	74.87	10.41	85.28	94	-8.72	Vertical

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3Mbps Result:

Peak value

Frequency	Reading Factor Measureme		Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.86	10.32	95.18	114	-18.82	Horizontal
2402	84.81	10.32	95.13	114	-18.87	Vertical
2441	84.22	10.36	94.58	114	-19.42	Horizontal
2441	84.16	10.36	94.52	114	-19.48	Vertical
2480	83.24	10.41	93.65	114	-20.35	Horizontal
2480	83.15	10.41	93.56	114	-20.44	Vertical

Average value

Frequency	Frequency Reading Level Factor		Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.17	10.32	86.49	94	-7.51	Horizontal
2402	76.31	10.32	86.63	94	-7.37	Vertical
2441	75.53	10.36	85.89	94	-8.11	Horizontal
2441	75.46	10.36	85.82	94	-8.18	Vertical
2480	74.18	10.41	84.59	94	-9.41	Horizontal
2480	74.41	10.41	84.82	94	-9.18	Vertical

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9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

1The 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.

2Max hold the trace of the setup 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission

9.2 TEST SETUP

RADIATED EMISSION TEST SETUP



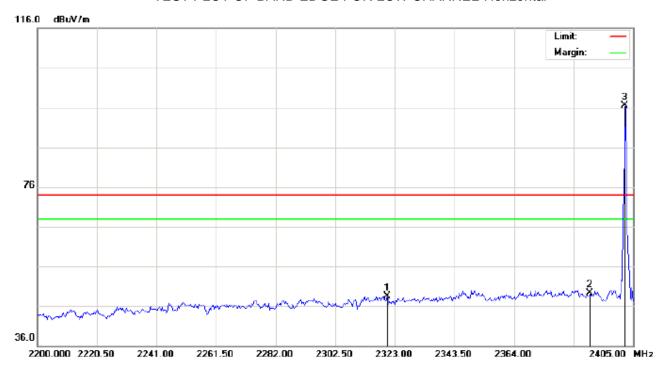
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9.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

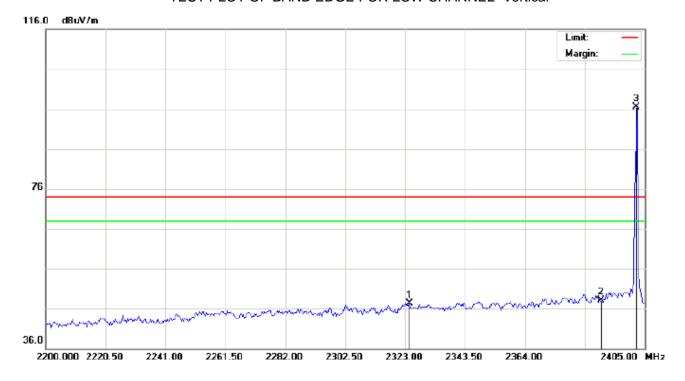
M/N:CR8005D-TU Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2320.267	38.36	10.23	48.59	74.00	-25.41	peak			
2		2390.000	39.00	10.31	49.31	74.00	-24.69	peak			
3	*	2402.000	86.22	10.32	96.54	74.00	22.54	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

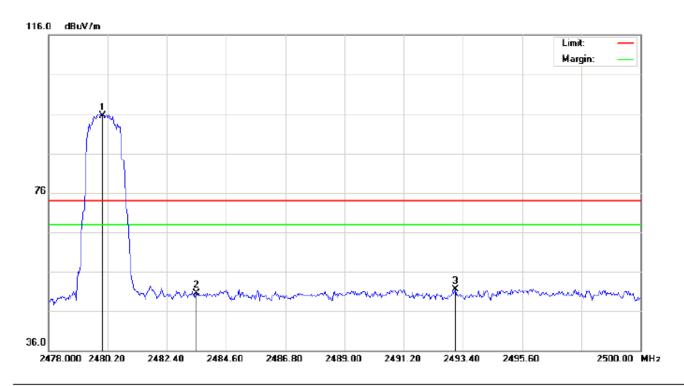
M/N:CR8005D-TU Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2324.367	37.05	10.24	47.29	74.00	-26.71	peak			
2		2390.000	37.71	10.31	48.02	74.00	-25.98	peak			
3	*	2402.000	86.09	10.32	96.41	74.00	22.41	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

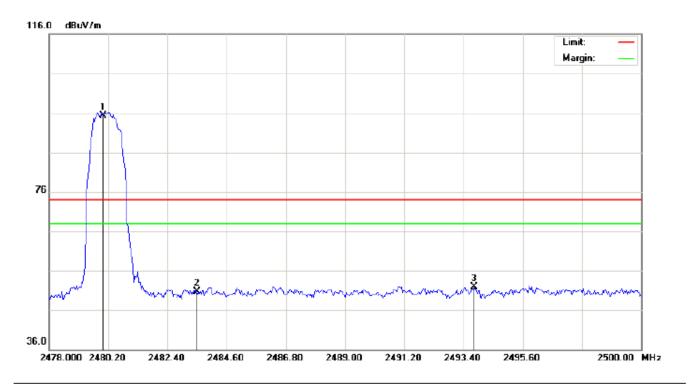
Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.05	10.41	95.46	74.00	21.46	peak			
2		2483.500	40.19	10.41	50.60	74.00	-23.40	peak			
3		2493.107	41.04	10.42	51.46	74.00	-22.54	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:

M/N:CR8005D-TU

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	84.82	10.41	95.23	74.00	21.23	peak			
2		2483.500	40.26	10.41	50.67	74.00	-23.33	peak			
3		2493.803	41.53	10.42	51.95	74.00	-22.05	peak			

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

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.

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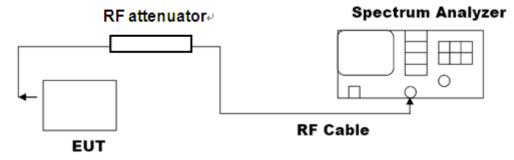
10. 20DB BANDWIDTH

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 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
- 4. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



Note: The EUT has been used temporary antenna connector for testing.

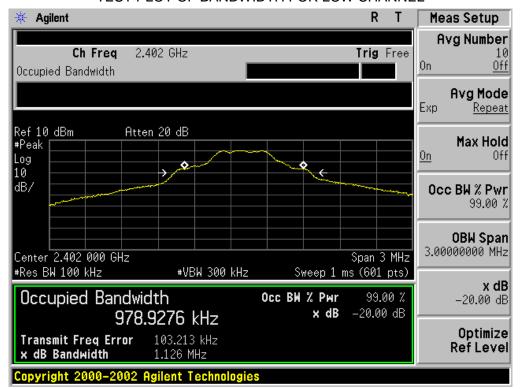
10.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

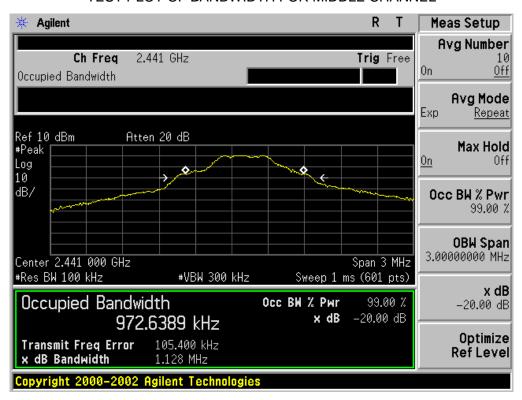
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Decult								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
	Low Channel	0.979	1.126	PASS						
N/A	Middle Channel	0.973	1.128	PASS						
	High Channel	0.974	1.124	PASS						

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

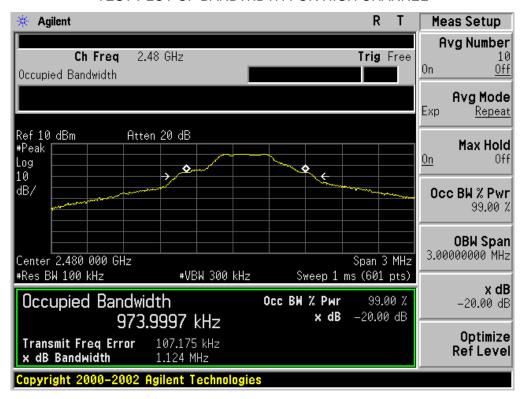


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



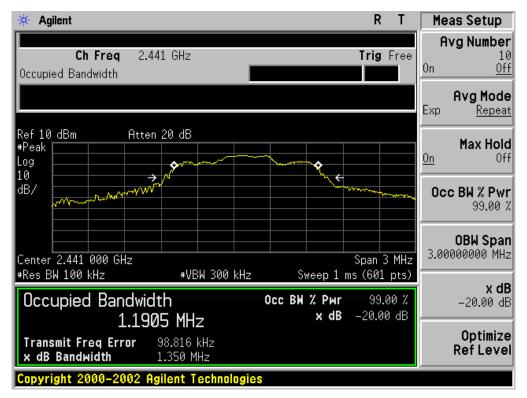
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits		Doorle									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
	Low Channel	1.189	1.334	PASS							
N/A	Middle Channel	1.191	1.350	PASS							
	High Channel	1.192	1.332	PASS							

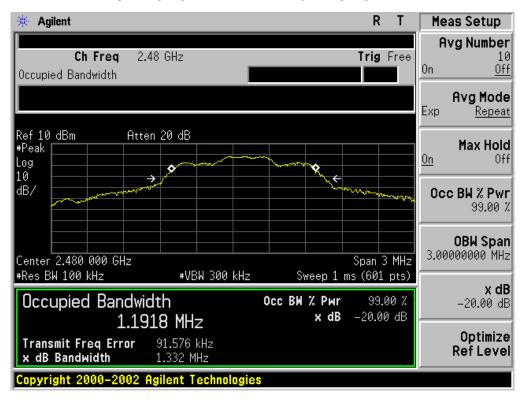
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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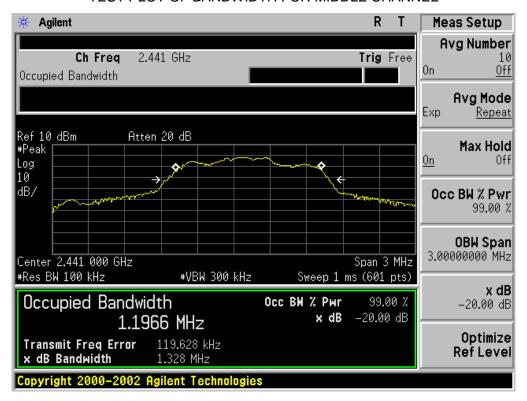
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
Applicable Limits		Doorle									
		-20dB BW(MHz)	Result								
	Low Channel	1.202	1.336	PASS							
N/A	Middle Channel	1.197	1.328	PASS							
	High Channel	1.200	1.329	PASS							

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

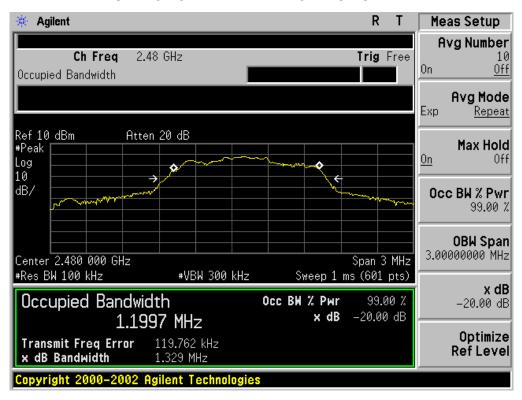


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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11. FCC LINE CONDUCTED EMISSION TEST

11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguenay	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.

11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. 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.

11.4. 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.

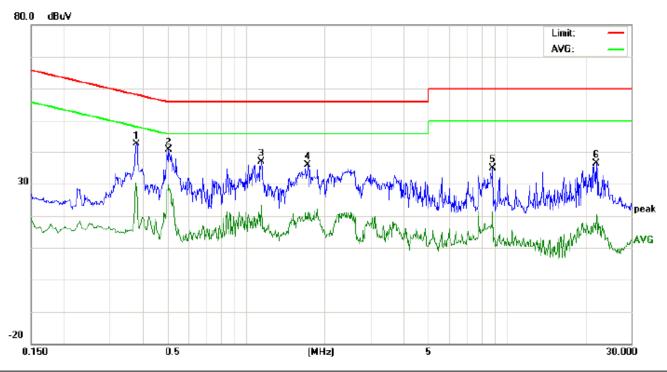
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11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)-1

FOR BR/EDR

Line Conducted Emission Test Line 1-L



Site: Conduction Phase: L1 Temperature: 22.5
Limit: FCC Class B Conduction(QP) Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION

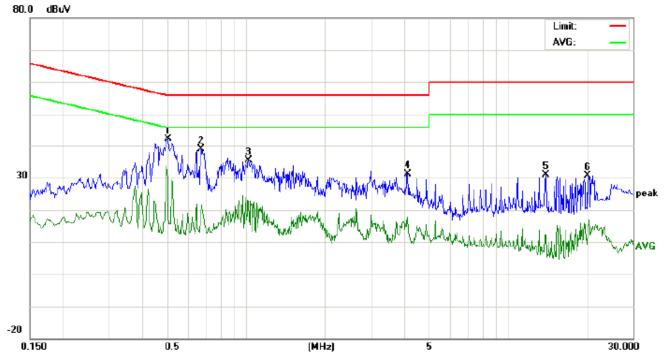
M/N:CR8005D-TU

Mode: BT Link with Line out

No.	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	0.3790	32.25		18.12	10.32	42.57		28.44	58.30	48.30	-15.73	-19.86	Р	
2	0.5060	30.12		19.15	10.39	40.51		29.54	56.00	46.00	-15.49	-16.46	Р	
3	1.1414	26.51		13.12	10.37	36.88		23.49	56.00	46.00	-19.12	-22.51	Р	
4	1.7298	25.55		8.81	10.31	35.86		19.12	56.00	46.00	-20.14	-26.88	Р	
5	8.8299	24.70		11.08	10.25	34.95		21.33	60.00	50.00	-25.05	-28.67	Р	
6	22.0975	26.27		10.29	10.12	36.39		20.41	60.00	50.00	-23.61	-29.59	Р	

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Line Conducted Emission Test Line 2-N



Site: Conduction Phase: N Temperature: 22.5
Limit: FCC Class B Conduction(QP) Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION

M/N:CR8005D-TU

Mode: BT Link with Line out

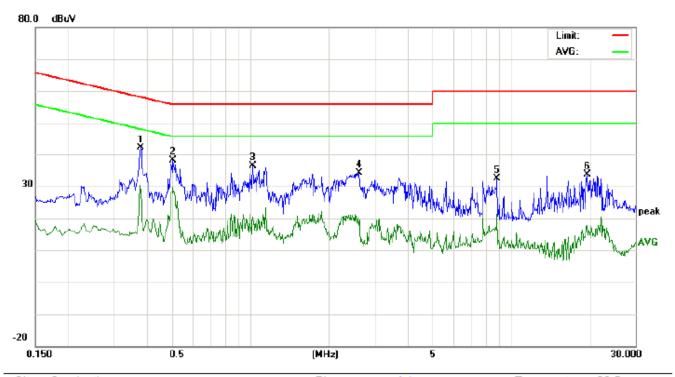
No.	No. Freq.		Reading_Level (dBuV)			Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP.	AVG	QP	AVG	QP	AVG		
1	0.5020	31.70		19.14	10.40	42.10		29.54	56.00	46.00	-13.90	-16.46	Р	
2	0.6740	28.54		8.87	10.34	38.88		19.21	56.00	46.00	-17.12	-26.79	Р	
3	1.0220	25.05		12.22	10.37	35.42		22.59	56.00	46.00	-20.58	-23.41	Р	
4	4.1459	20.88		7.41	10.37	31.25		17.78	56.00	46.00	-24.75	-28.22	Р	
5	13.9379	20.82		2.07	10.12	30.94		12.19	60.00	50.00	-29.06	-37.81	Р	
6	20.1097	20.44		3.00	10.11	30.55		13.11	60.00	50.00	-29.45	-36.89	Р	

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By adapter(worst case)-2

FOR BR/EDR

Line Conducted Emission Test Line 1-L



Site: Conduction Phase: L1 Temperature: 22.5
Limit: FCC Class B Conduction(QP) Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION

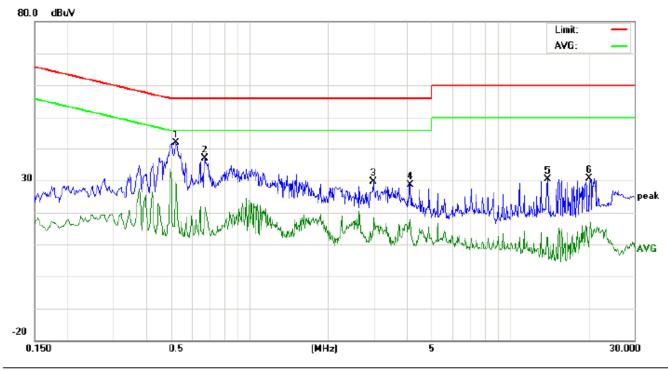
M/N:CR8005D-TU

Mode: BT Link with Line out

No.	Freq.	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	0.3790	31.75		18.12	10.32	42.07		28.44	58.30	48.30	-16.23	-19.86	Р	
2	0.5060	27.62		19.15	10.39	38.01		29.54	56.00	46.00	-17.99	-16.46	Р	
3	1.0220	25.98		9.97	10.37	36.35		20.34	56.00	46.00	-19.65	-25.66	Р	
4	2.6218	23.64		7.45	10.46	34.10		17.91	56.00	46.00	-21.90	-28.09	Р	
5	8.8299	22.20		11.08	10.25	32.45		21.33	60.00	50.00	-27.55	-28.67	Р	
6	19.6018	23.46		7.89	10.11	33.57		18.00	60.00	50.00	-26.43	-32.00	Р	

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Line Conducted Emission Test Line 2-N



Site: Conduction Phase: N Temperature: 22.5

Limit: FCC Class B Conduction(QP)

nduction(QP) Power: Humidity: 53.6 %

EUT:TURNTABLE WITH BLUETOOTH FUNCTION

M/N:CR8005D-TU

Mode: BT Link with Line out

No.	Freq.	Reading_Level (dBuV)			Correct Factor				Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5220	31.52		19.06	10.38	41.90		29.44	56.00	46.00	-14.10	-16.56	Р	
2	0.6740	26.54		8.87	10.34	36.88		19.21	56.00	46.00	-19.12	-26.79	Р	
3	2.9820	19.13		5.22	10.55	29.68		15.77	56.00	46.00	-26.32	-30.23	Р	
4	4.1459	18.38		7.41	10.37	28.75		17.78	56.00	46.00	-27.25	-28.22	Р	
5	13.9379	20.32		2.07	10.12	30.44		12.19	60.00	50.00	-29.56	-37.81	Р	
6	20.1097	20.44		3.00	10.11	30.55		13.11	60.00	50.00	-29.45	-36.89	Р	

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

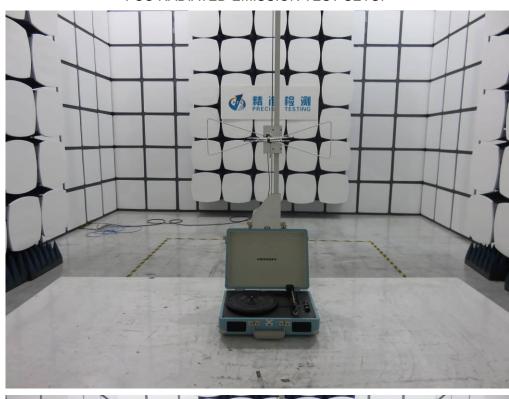
FCC LINE CONDUCTED EMISSION TEST SETUP-1

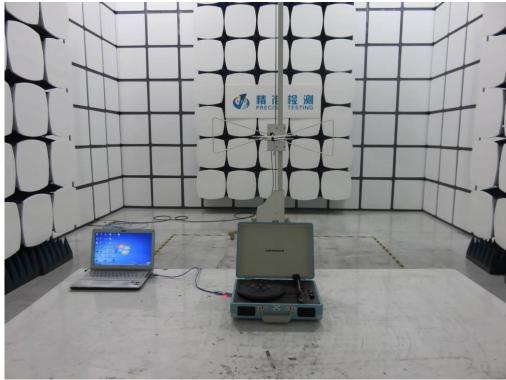


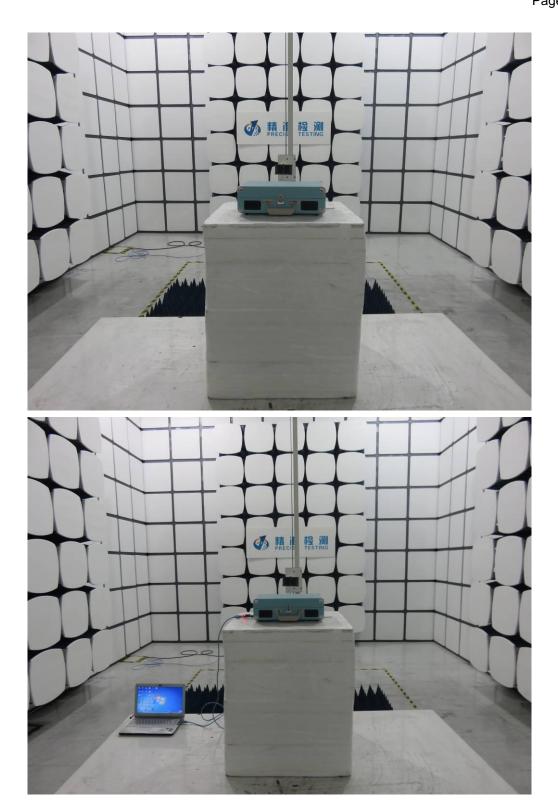
FCC LINE CONDUCTED EMISSION TEST SETUP-2







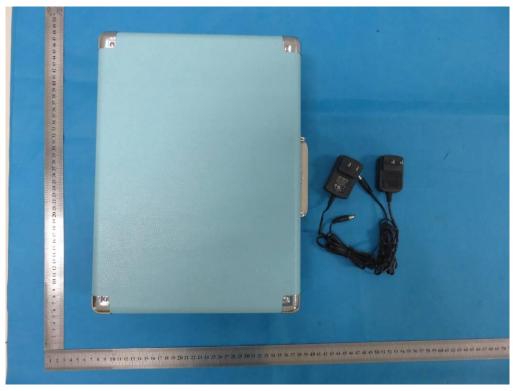




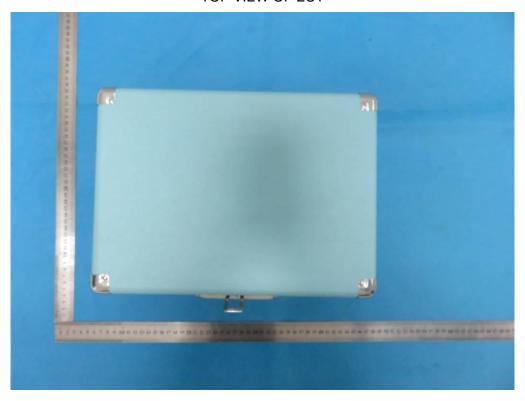
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APPENDIX B: PHOTOGRAPHS OF EUT

WHOLE VIEW OF EUT

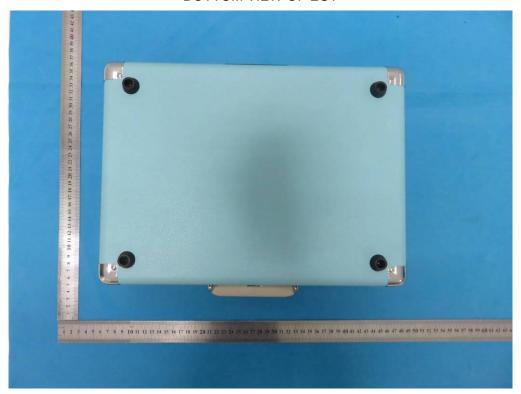


TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

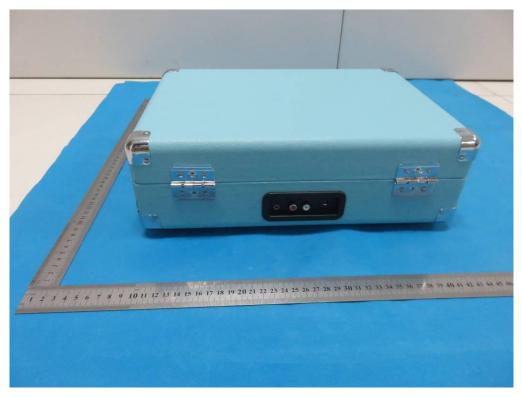


FRONT VIEW OF EUT

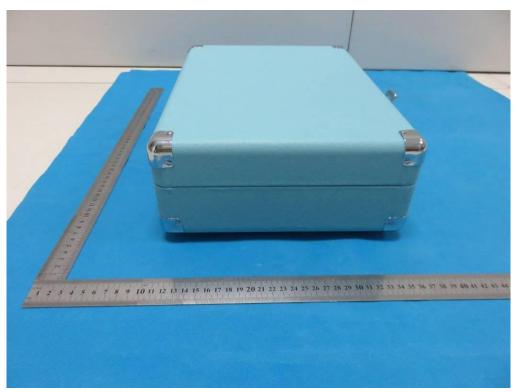


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BACK VIEW OF EUT

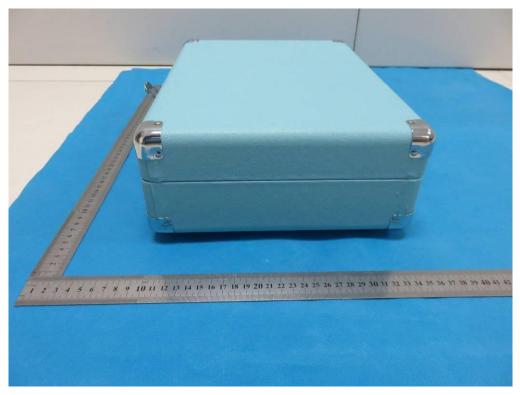


LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



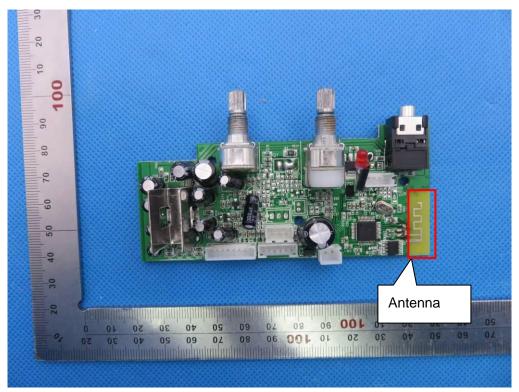
OPEN VIEW OF EUT-1



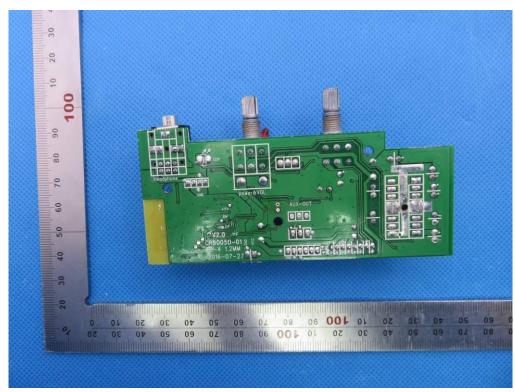
OPEN VIEW OF EUT-2



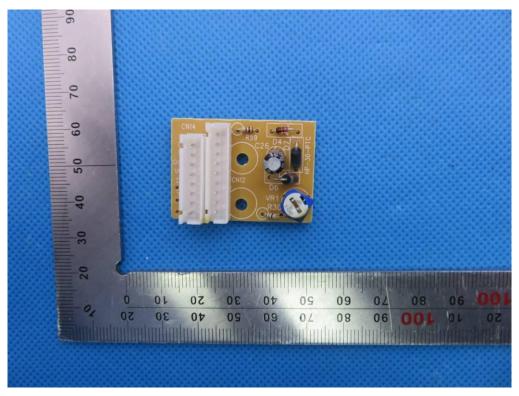
INTERNAL VIEW OF EUT-1



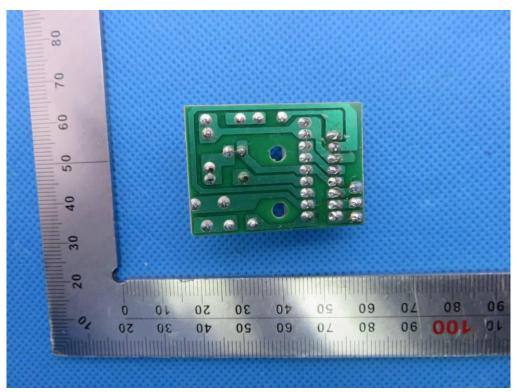
INTERNAL VIEW OF EUT-2



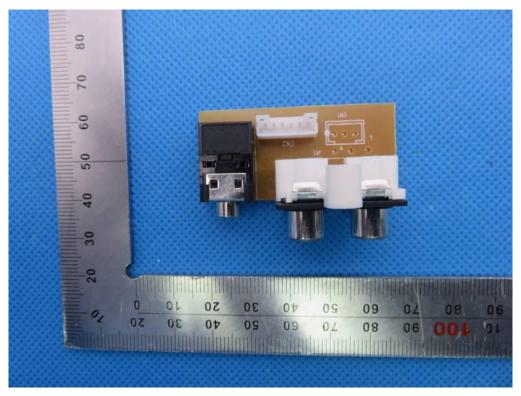
INTERNAL VIEW OF EUT-3



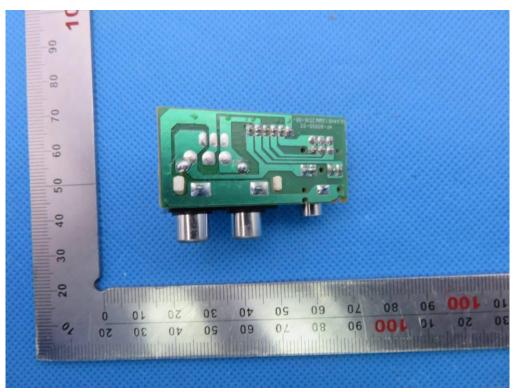
INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



INTERNAL VIEW OF EUT-7



VIEW OF ADAPTER-1





VIEW OF ADAPTER-2



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----END OF REPORT----