

FCC Test Report

Report No.: AGC00184180101FE03

FCC ID : 2AF3ZTI-22BT
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Bluetooth Earphone
BRAND NAME : Echobox
MODEL NAME : Ti-22BT, BES1713
CLIENT : Echobox Audio, LLC
DATE OF ISSUE : Jan. 29, 2018
STANDARD(S) : FCC Part 15 Subpart C Section 15.249
TEST PROCEDURE(S)
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	/	Jan. 29, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Echobox Audio, LLC
Address	4707 51st place SW, suite 200, Seattle WA, 98116, United States of America
Manufacturer	Wata Electronics Co., Ltd.
Address	No 142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong, China
Product Designation	Bluetooth Earphone
Brand Name	Echobox
Test Model	Ti-22BT
Series Model	BES1713
Difference description	All the same except for the model name and appearance color
Date of test	Jan. 17, 2018 to Jan. 24, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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. The test results of this report relate only to the tested sample identified in this report.

Tested By


 Berg Lu(Lu Bing)

Jan. 24, 2018

Reviewed By


 Forrest Lei(Lei Yonggang)

Jan. 29, 2018

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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	2.83dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1
Modulation	BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> $\pi/4$ -DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK
Number of channels	79 for BR/EDR
Hardware Version	V9.0
Software Version	JX225_14_1713_V32_20171107.xuv
Antenna Designation	Ceramic Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCIES

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402MHz
	1	2403MHz
	:	:
	38	2440 MHz
	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 expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

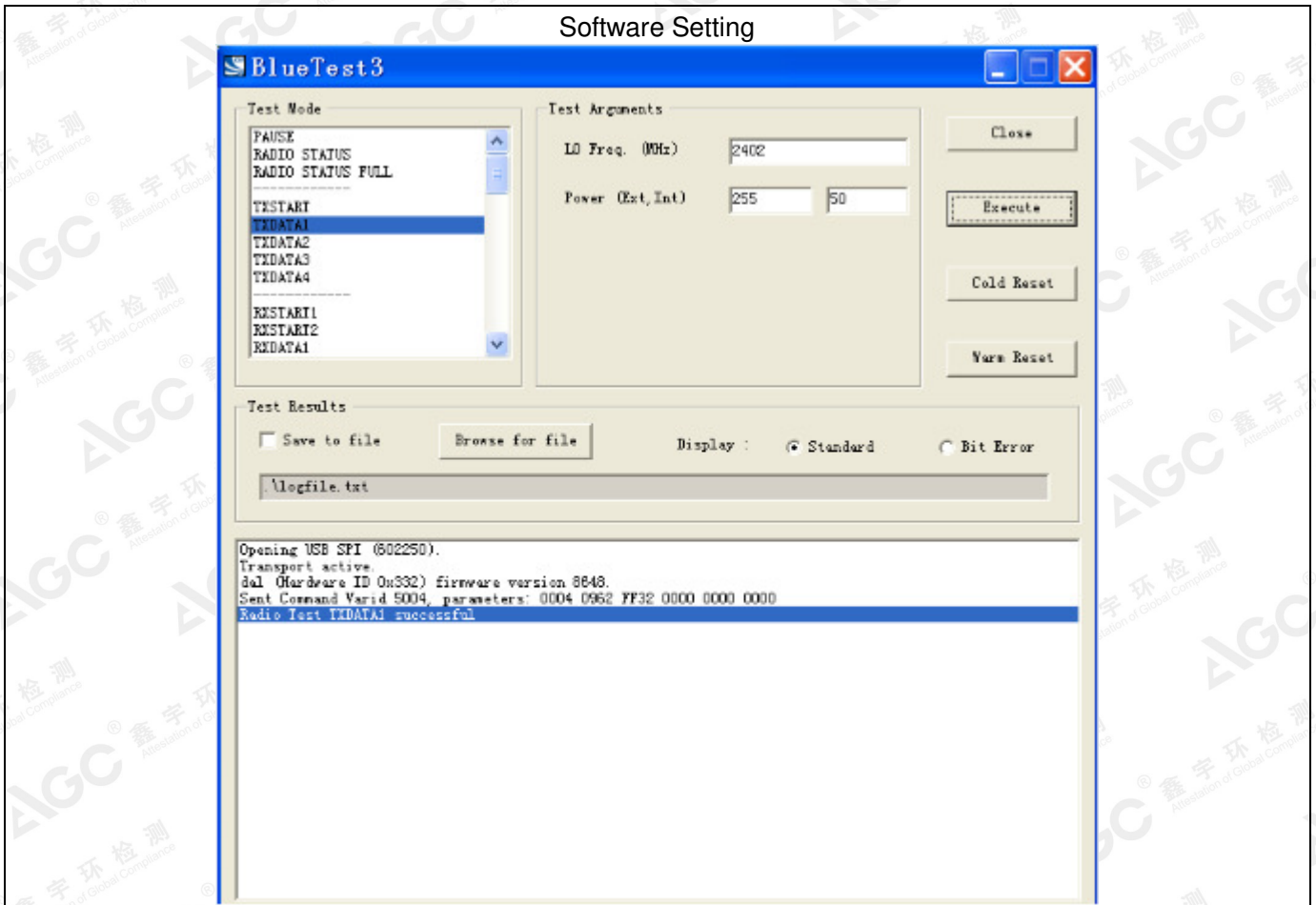
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used fully-charged battery when tested.

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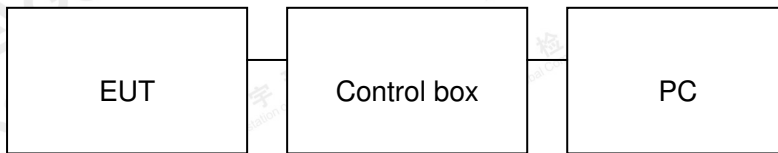
5. SYSTEM TEST CONFIGURATION

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	Bluetooth Earphone	Echobox	Ti-22BT	EUT
2	Battery	YJ	YJ10100	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	USB Cable	N/A	1m unshielded	A.E

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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	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Mar. 01, 2016	Feb. 28, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (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 (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/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(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 (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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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)

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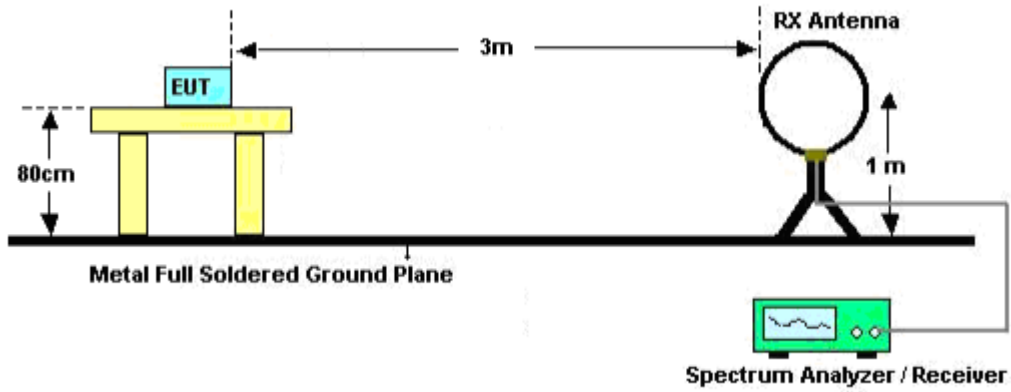
The following table is the setting of spectrum analyzer and receiver.

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 RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 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

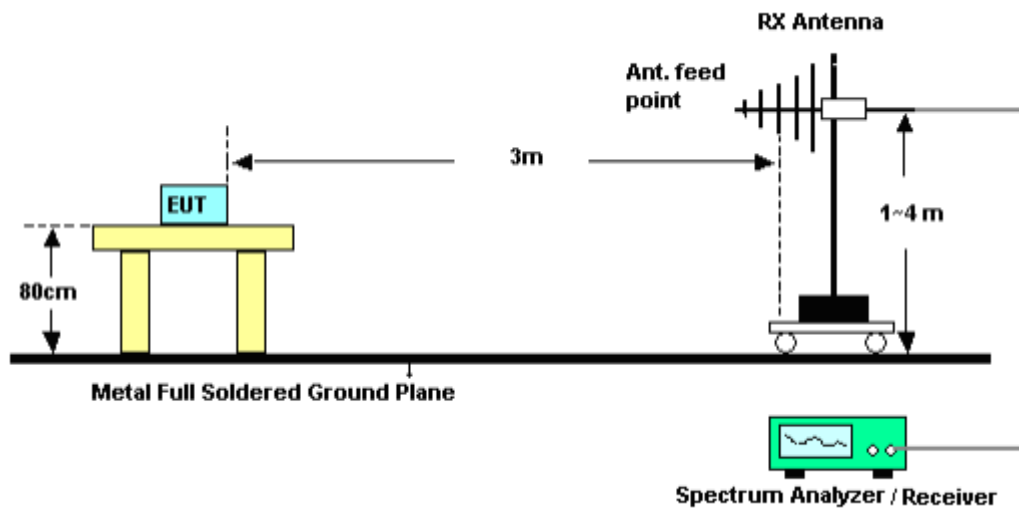
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9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz

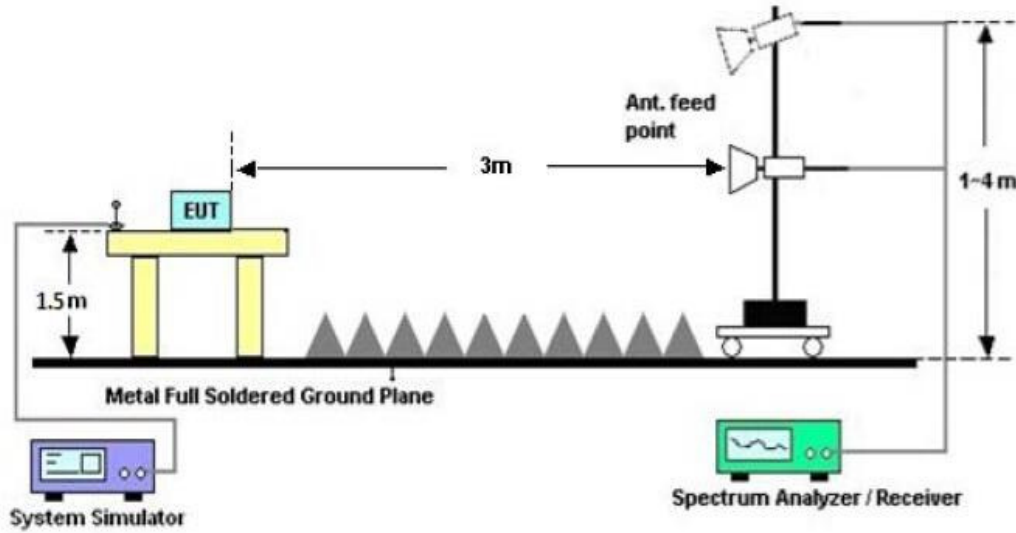


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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.

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	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		172.2666	12.55	10.78	23.33	43.50	-20.17	peak			
2	*	367.8833	21.82	18.86	40.68	46.00	-5.32	peak			
3	!	451.9500	19.97	20.61	40.58	46.00	-5.42	peak			
4		571.5833	9.22	23.02	32.24	46.00	-13.76	peak			
5		654.0333	6.67	23.96	30.63	46.00	-15.37	peak			
6		949.8833	1.83	30.00	31.83	46.00	-14.17	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW 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		130.2333	14.71	11.13	25.84	43.50	-17.66	peak			
2	*	359.8000	16.96	18.80	35.76	46.00	-10.24	peak			
3		463.2667	14.23	20.73	34.96	46.00	-11.04	peak			
4		647.5667	3.84	23.80	27.64	46.00	-18.36	peak			
5		775.2833	2.98	26.98	29.96	46.00	-16.04	peak			
6		907.8500	2.62	28.83	31.45	46.00	-14.55	peak			

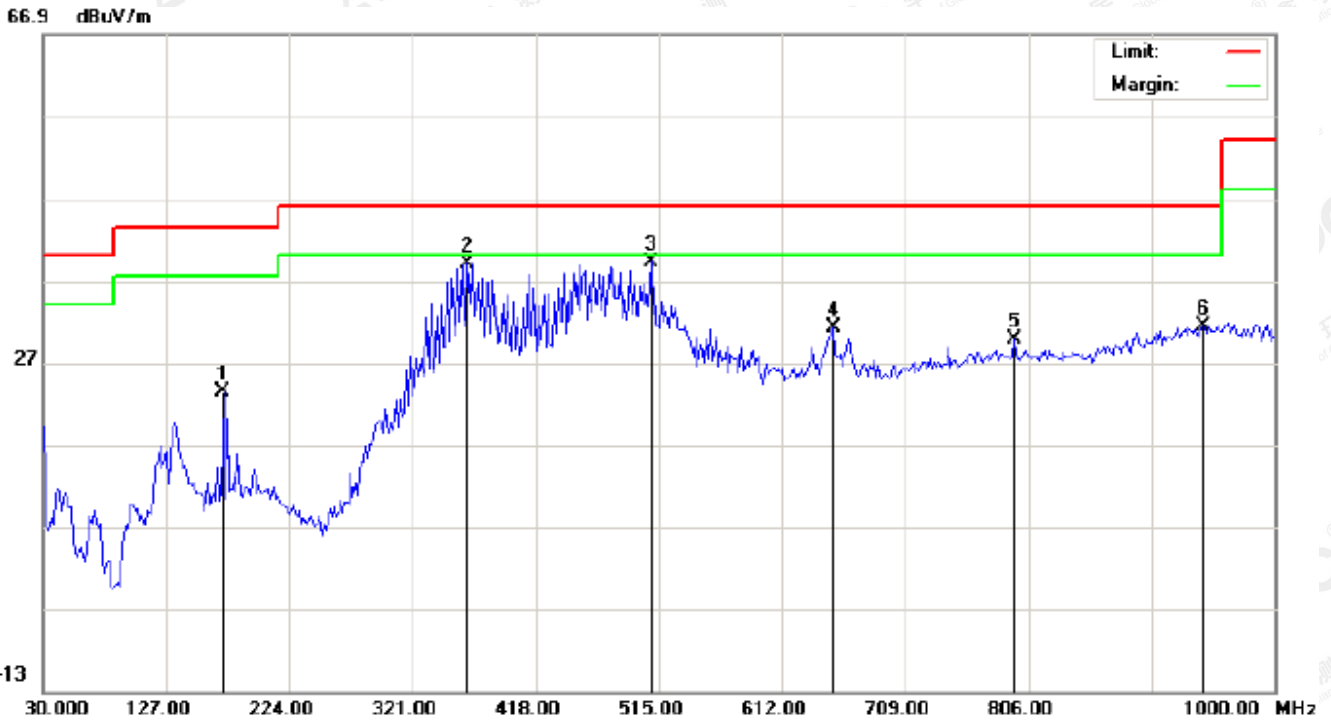
RESULT: PASS

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

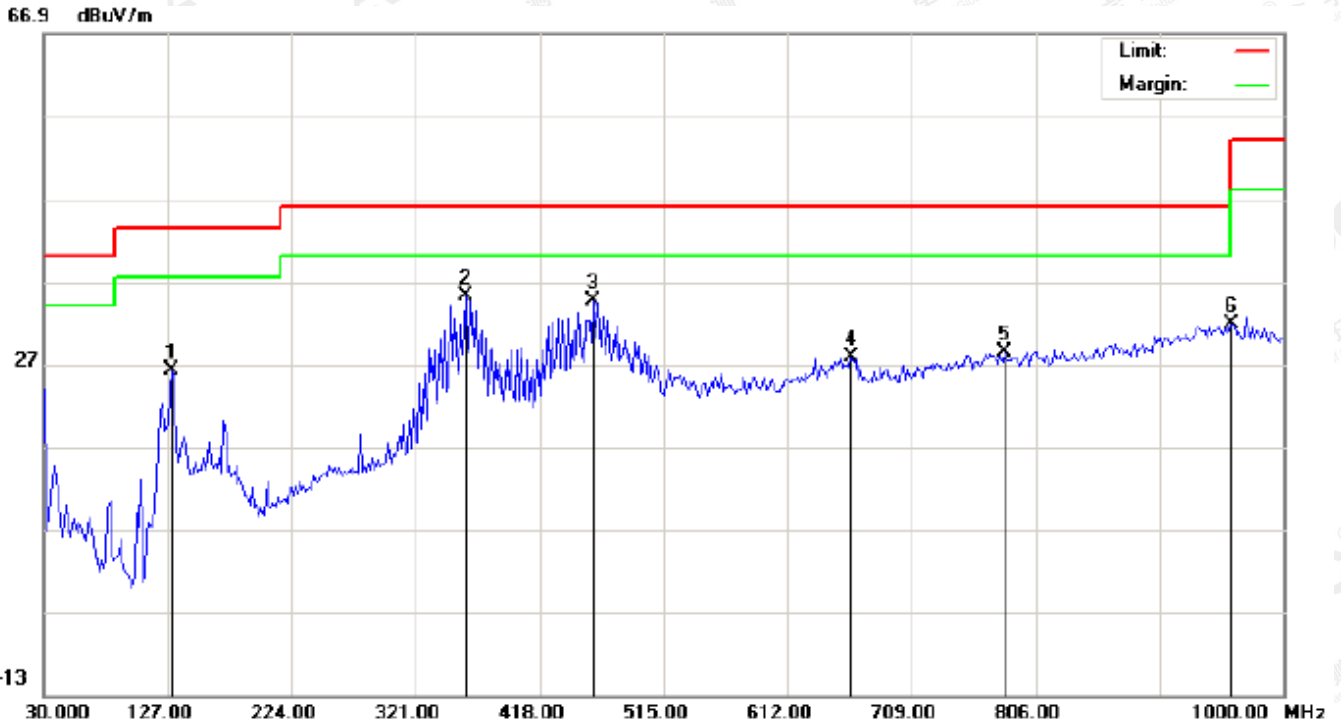


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		172.2666	12.64	10.78	23.42	43.50	-20.08	peak			
2		364.6500	20.26	18.84	39.10	46.00	-6.90	peak			
3	*	508.5333	17.94	21.36	39.30	46.00	-6.70	peak			
4		652.4167	7.37	23.92	31.29	46.00	-14.71	peak			
5		794.6833	2.62	27.25	29.87	46.00	-16.13	peak			
6		943.4167	1.62	29.82	31.44	46.00	-14.56	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE 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		130.2333	15.16	11.13	26.29	43.50	-17.21	peak			
2	*	359.8000	16.33	18.80	35.13	46.00	-10.87	peak			
3		460.0333	13.97	20.70	34.67	46.00	-11.33	peak			
4		662.1167	3.59	24.17	27.76	46.00	-18.24	peak			
5		781.7500	1.38	27.07	28.45	46.00	-17.55	peak			
6		959.5833	1.82	29.91	31.73	46.00	-14.27	peak			

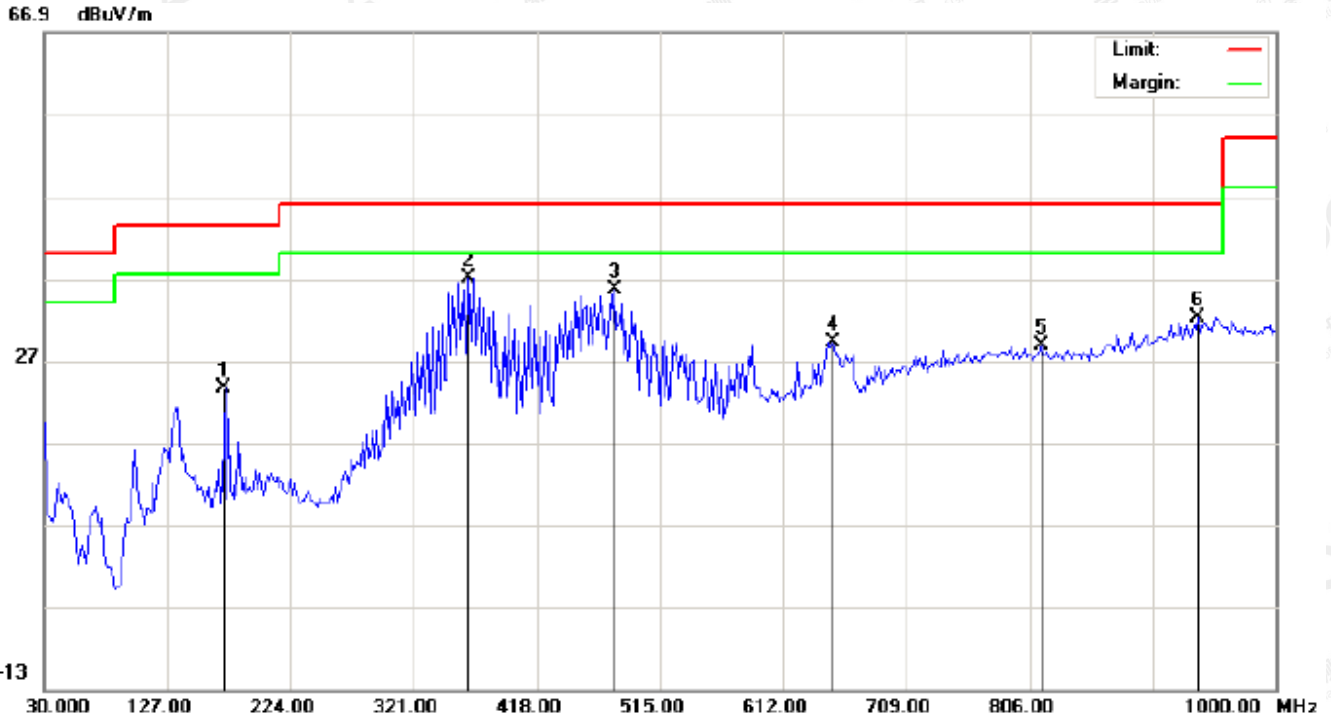
RESULT: PASS

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

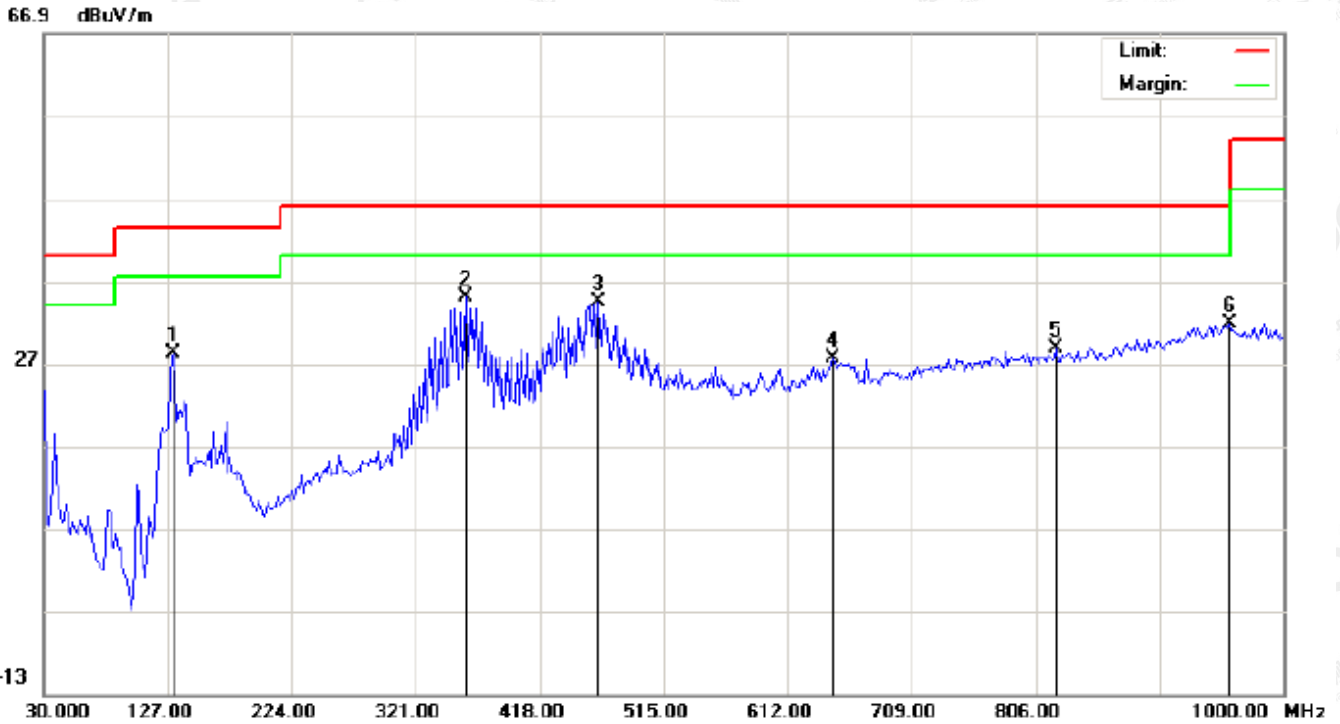


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		172.2666	12.82	10.78	23.60	43.50	-19.90	peak			
2	*	364.6500	18.19	18.84	37.03	46.00	-8.97	peak			
3		479.4333	14.68	20.91	35.59	46.00	-10.41	peak			
4		650.8000	5.42	23.87	29.29	46.00	-16.71	peak			
5		815.7000	1.40	27.32	28.72	46.00	-17.28	peak			
6		938.5667	2.54	29.68	32.22	46.00	-13.78	peak			

RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		131.8500	16.49	11.80	28.29	43.50	-15.21	peak			
2	*	359.8000	16.11	18.80	34.91	46.00	-11.09	peak			
3		463.2667	13.72	20.73	34.45	46.00	-11.55	peak			
4		647.5667	3.77	23.80	27.57	46.00	-18.43	peak			
5		822.1667	1.56	27.32	28.88	46.00	-17.12	peak			
6		957.9667	1.79	29.92	31.71	46.00	-14.29	peak			

RESULT: PASS

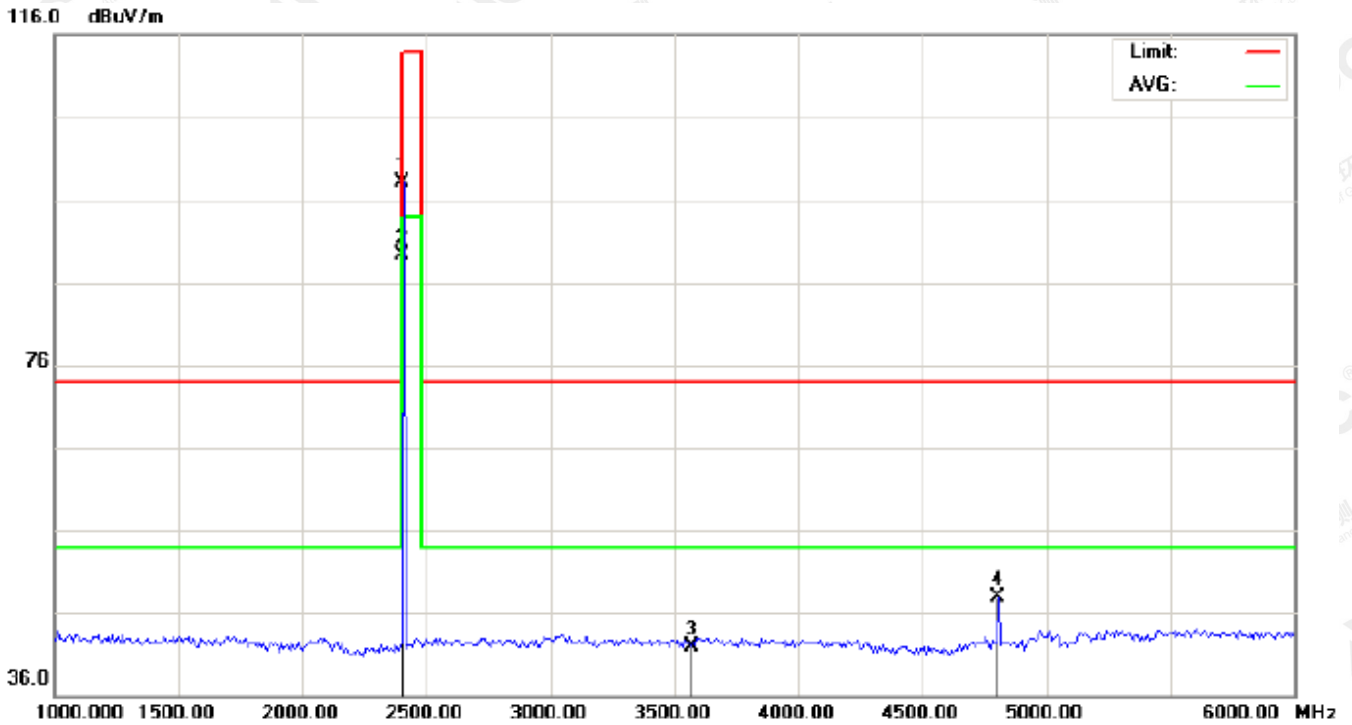
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

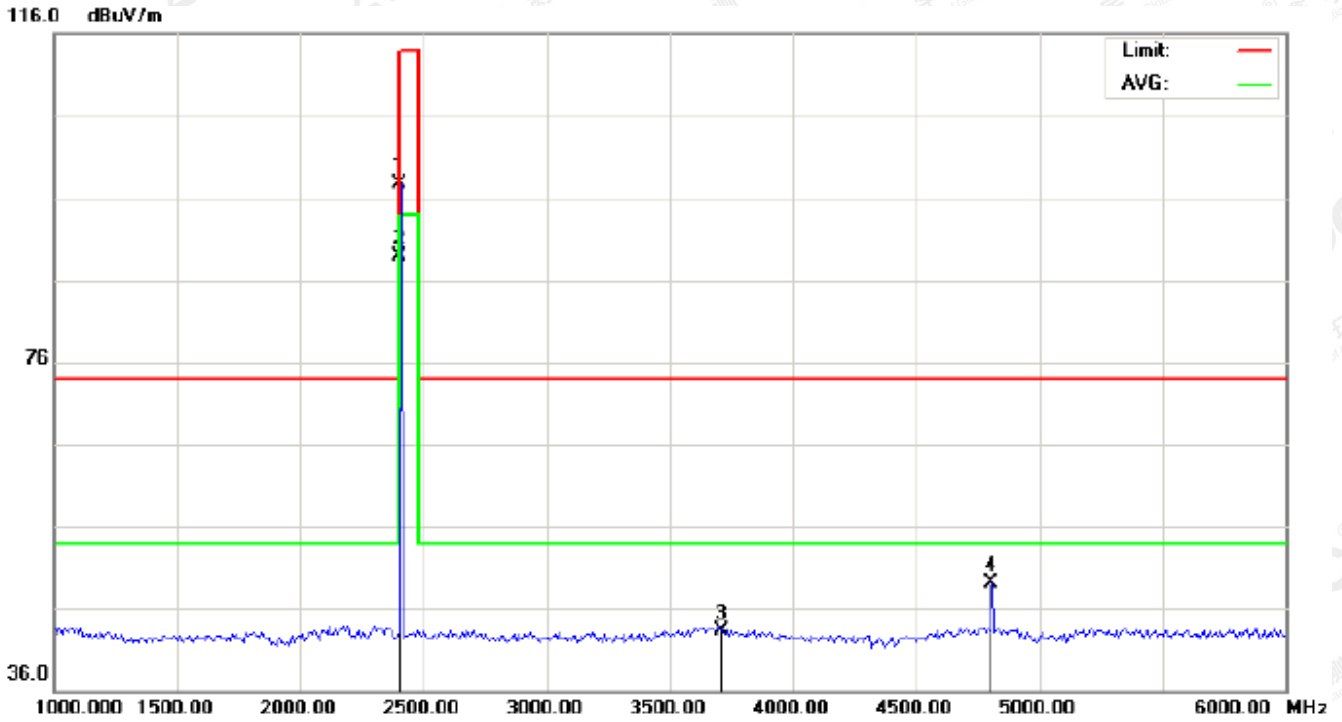


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1		2402.000	87.71	10.32	98.03	114.00	-15.97	peak			
2	*	2402.000	78.97	10.32	89.29	94.00	-4.71	AVG	100	294	
3		3566.667	29.30	12.52	41.82	74.00	-32.18	peak			
4		4804.000	40.24	7.69	47.93	74.00	-26.07	peak			

RESULT: PASS

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

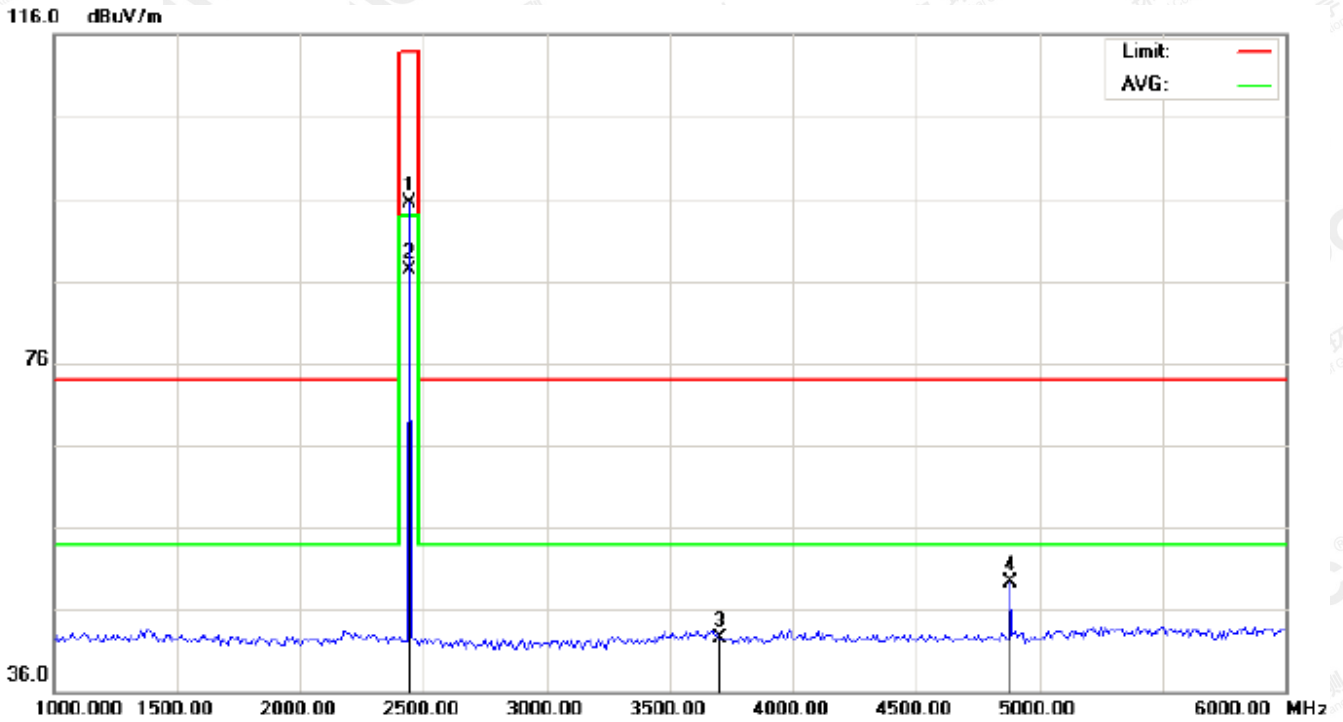


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	87.32	10.32	97.64	114.00	-16.36	peak			
2	*	2402.000	78.60	10.32	88.92	94.00	-5.08	AVG	100	53	
3		3708.333	29.95	13.39	43.34	74.00	-30.66	peak			
4		4804.000	41.38	7.69	49.07	74.00	-24.93	peak			

RESULT: PASS

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

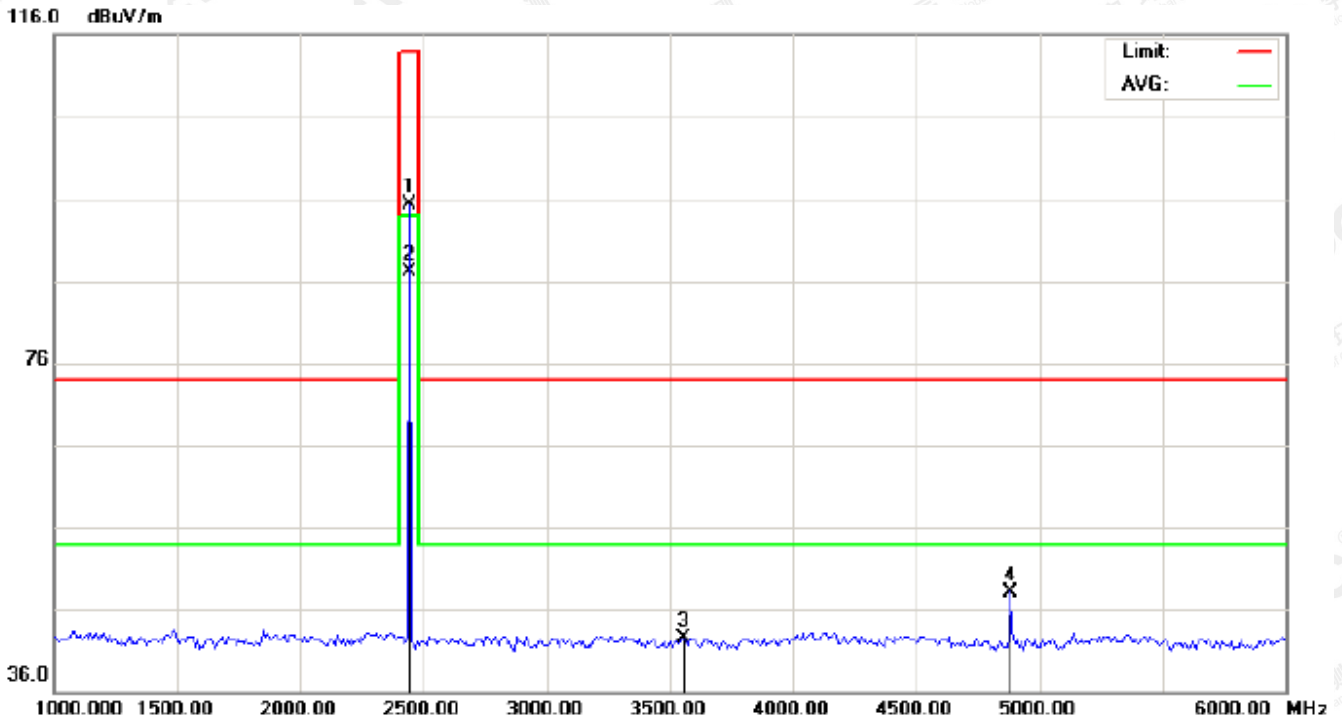


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	85.24	10.36	95.60	114.00	-18.40	peak			
2	*	2441.000	76.96	10.36	87.32	94.00	-6.68	AVG	100	294	
3		3700.000	29.21	13.34	42.55	74.00	-31.45	peak			
4		4882.000	41.38	7.89	49.27	74.00	-24.73	peak			

RESULT: PASS

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

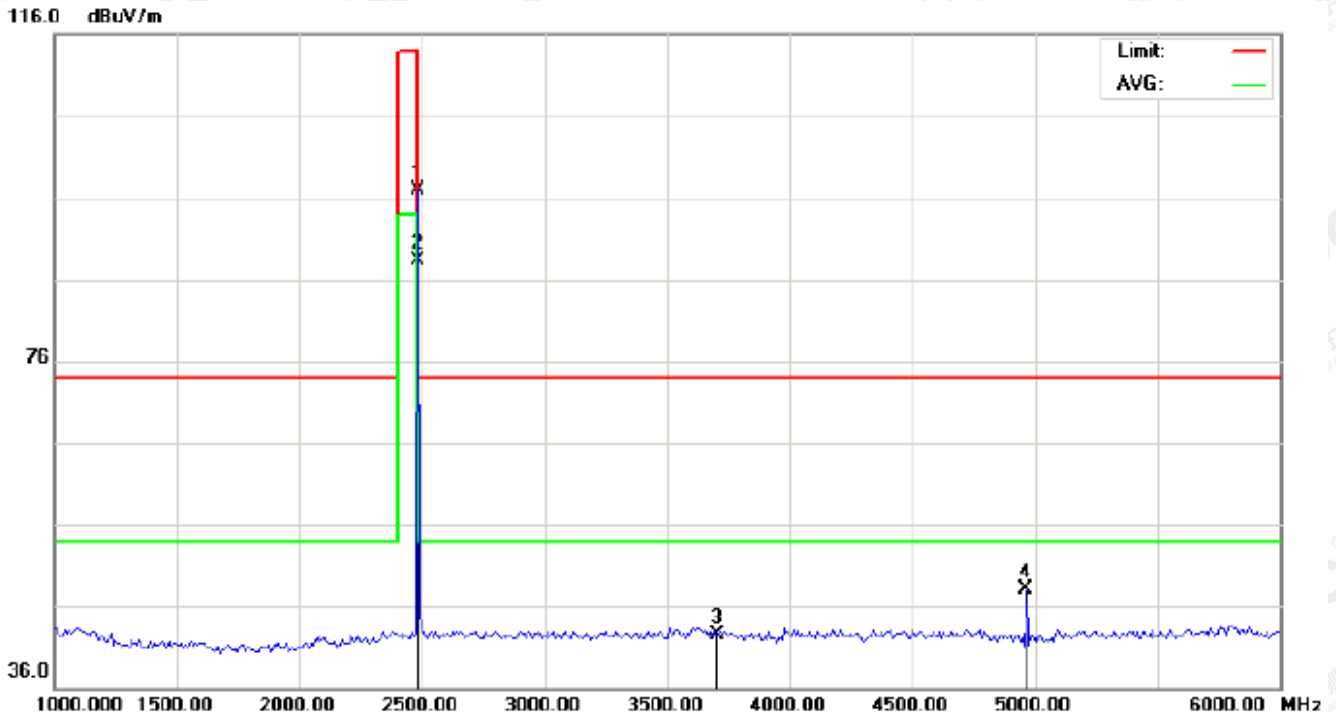


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	84.99	10.36	95.35	114.00	-18.65	peak			
2	*	2441.000	76.65	10.36	87.01	94.00	-6.99	AVG	100	61	
3		3558.333	30.07	12.47	42.54	74.00	-31.46	peak			
4		4882.000	40.31	7.89	48.20	74.00	-25.80	peak			

RESULT: PASS

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

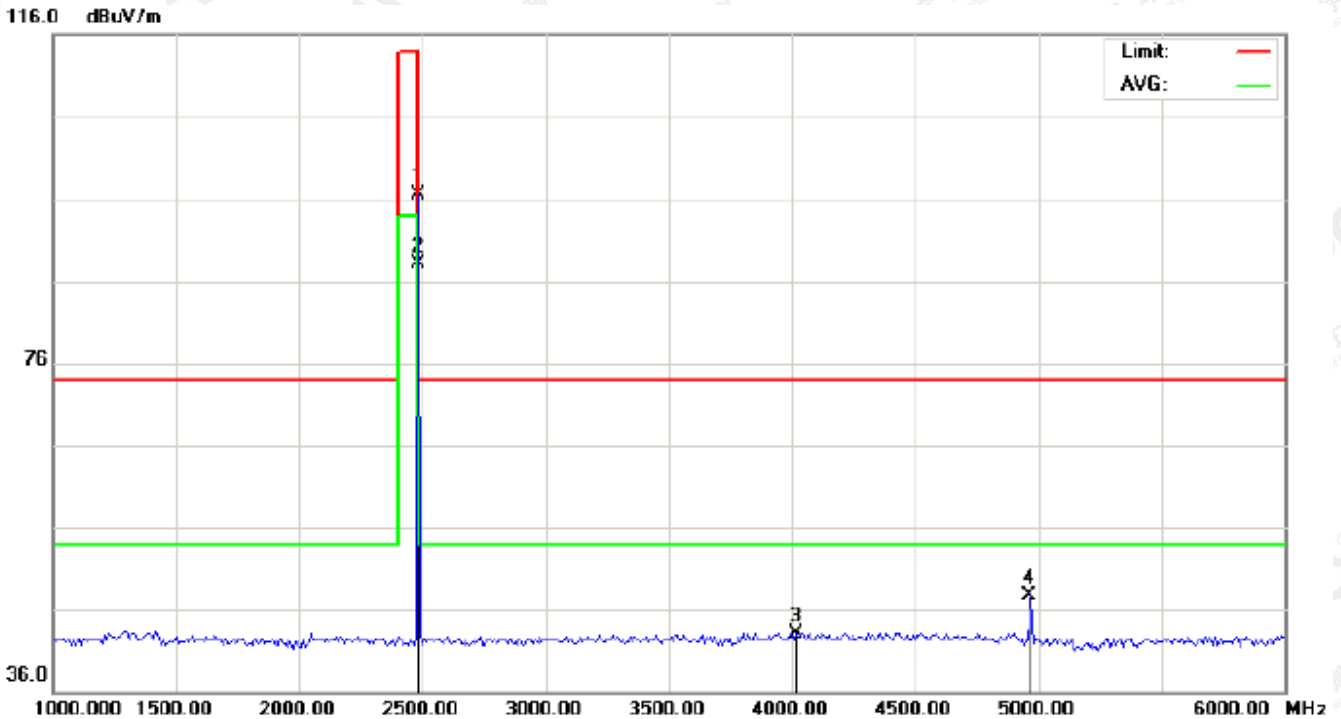


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	86.47	10.41	96.88	114.00	-17.12	peak			
2	*	2480.000	77.95	10.41	88.36	94.00	-5.64	AVG	100	292	
3		3700.000	29.09	13.34	42.43	74.00	-31.57	peak			
4		4960.000	40.01	8.09	48.10	74.00	-25.90	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-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	86.23	10.41	96.64	114.00	-17.36	peak			
2	*	2480.000	77.61	10.41	88.02	94.00	-5.98	AVG	100	62	
3		4016.667	28.28	14.91	43.19	74.00	-30.81	peak			
4		4960.000	39.66	8.09	47.75	74.00	-26.25	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	87.71	10.32	98.03	114	-15.97	Horizontal
2402	87.32	10.32	97.64	114	-16.36	Vertical
2441	85.24	10.36	95.60	114	-18.40	Horizontal
2441	84.99	10.36	95.35	114	-18.65	Vertical
2480	86.47	10.41	96.88	114	-17.12	Horizontal
2480	86.23	10.41	96.64	114	-17.36	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.97	10.32	89.29	94	-4.71	Horizontal
2402	78.60	10.32	88.92	94	-5.08	Vertical
2441	76.96	10.36	87.32	94	-6.68	Horizontal
2441	76.65	10.36	87.01	94	-6.99	Vertical
2480	77.95	10.41	88.36	94	-5.64	Horizontal
2480	77.61	10.41	88.02	94	-5.98	Vertical

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2Mbps Result:
Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.96	10.32	97.28	114	-16.72	Horizontal
2402	86.57	10.32	96.89	114	-17.11	Vertical
2441	84.44	10.36	94.80	114	-19.20	Horizontal
2441	84.19	10.36	94.55	114	-19.45	Vertical
2480	85.71	10.41	96.12	114	-17.88	Horizontal
2480	85.43	10.41	95.84	114	-18.16	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.17	10.32	88.49	94	-5.51	Horizontal
2402	77.80	10.32	88.12	94	-5.88	Vertical
2441	76.20	10.36	86.56	94	-7.44	Horizontal
2441	75.89	10.36	86.25	94	-7.75	Vertical
2480	77.17	10.41	87.58	94	-6.42	Horizontal
2480	76.83	10.41	87.24	94	-6.76	Vertical

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3Mbps Result:
Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.61	10.32	96.93	114	-17.07	Horizontal
2402	86.29	10.32	96.61	114	-17.39	Vertical
2441	84.12	10.36	94.48	114	-19.52	Horizontal
2441	83.79	10.36	94.15	114	-19.85	Vertical
2480	85.38	10.41	95.79	114	-18.21	Horizontal
2480	85.04	10.41	95.45	114	-18.55	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.83	10.32	88.15	94	-5.85	Horizontal
2402	77.46	10.32	87.78	94	-6.22	Vertical
2441	75.83	10.36	86.19	94	-7.81	Horizontal
2441	75.51	10.36	85.87	94	-8.13	Vertical
2480	76.85	10.41	87.26	94	-6.74	Horizontal
2480	76.51	10.41	86.92	94	-7.08	Vertical

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10. BAND EDGE EMISSION

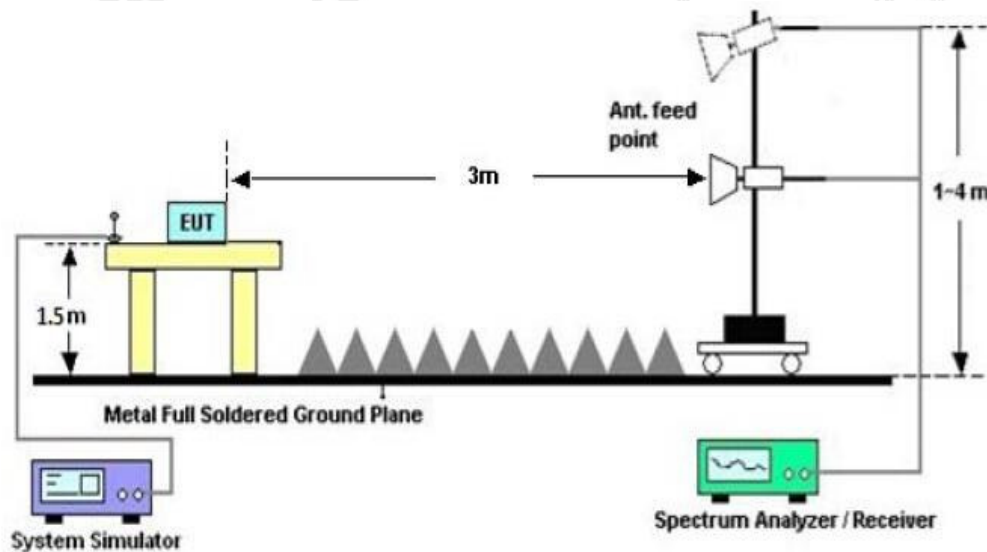
10.1. MEASUREMENT PROCEDURE

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 setup 1, 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

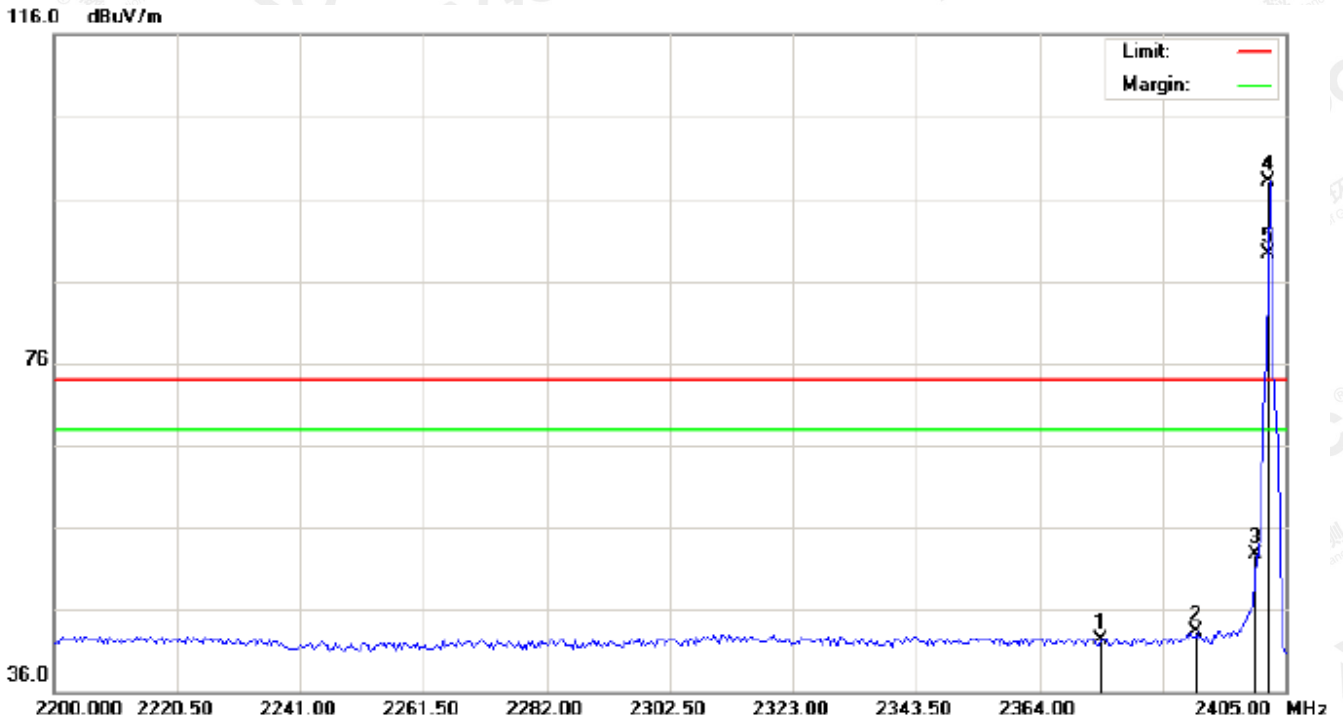
RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT
(Worst modulation: GFSK)
FOR BR/EDR

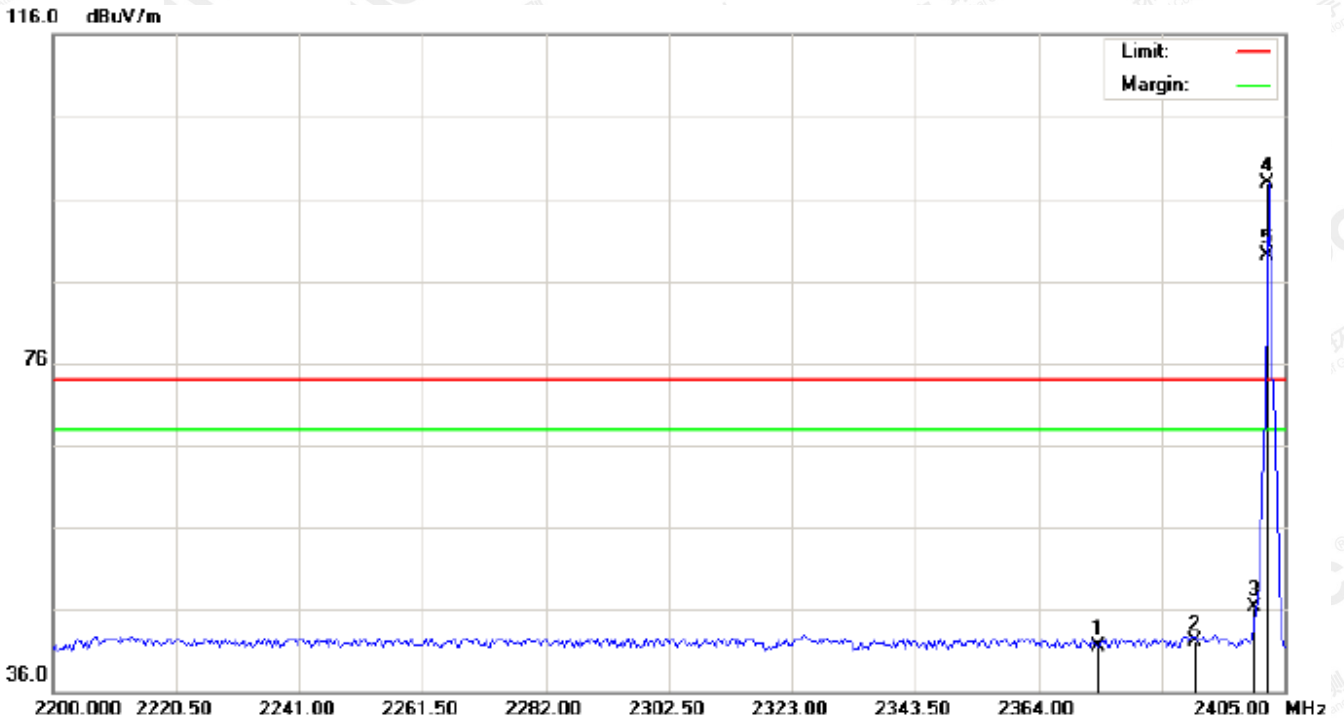
TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



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		2374.250	32.05	10.29	42.34	74.00	-31.66	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	87.72	10.32	98.04	74.00	24.04	peak			
5	X	2402.000	79.02	10.32	89.34	74.00	15.34	AVG	100	301	

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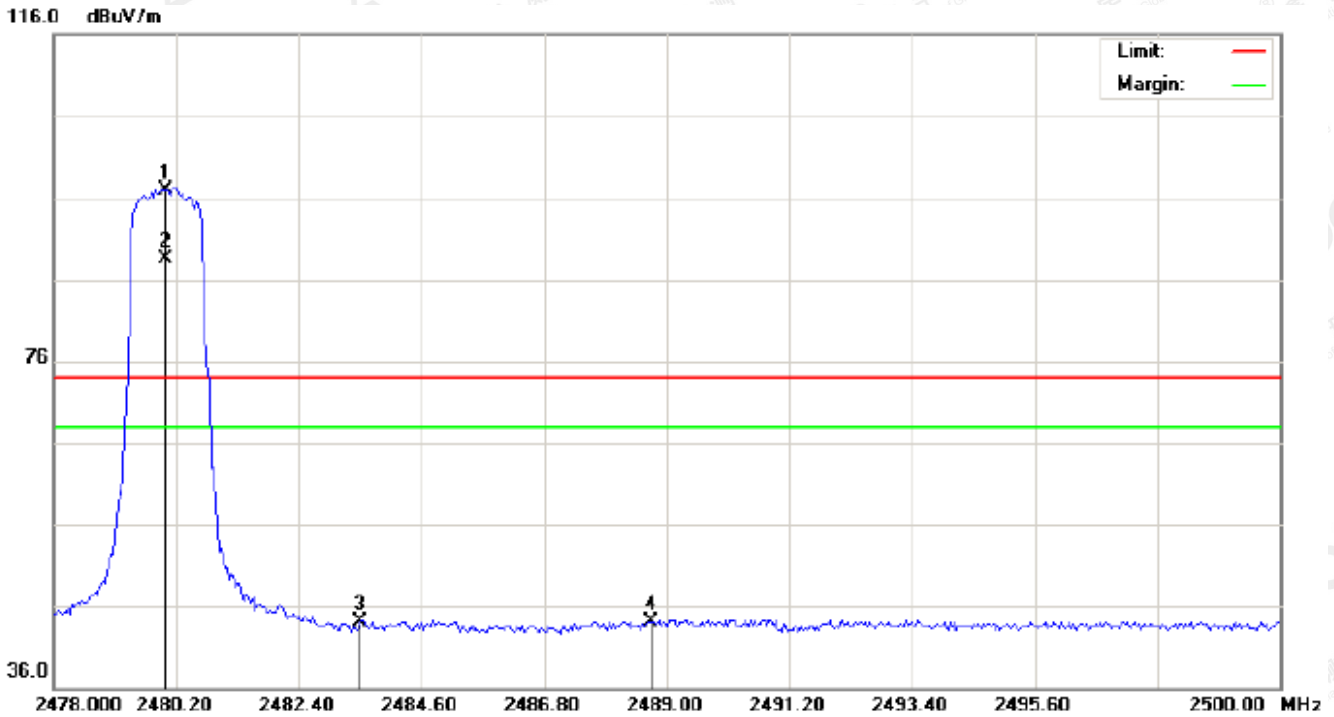
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



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		2373.908	31.24	10.29	41.53	74.00	-32.47	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	87.59	10.32	97.91	74.00	23.91	peak			
5	X	2402.000	78.71	10.32	89.03	74.00	15.03	AVG	100	59	

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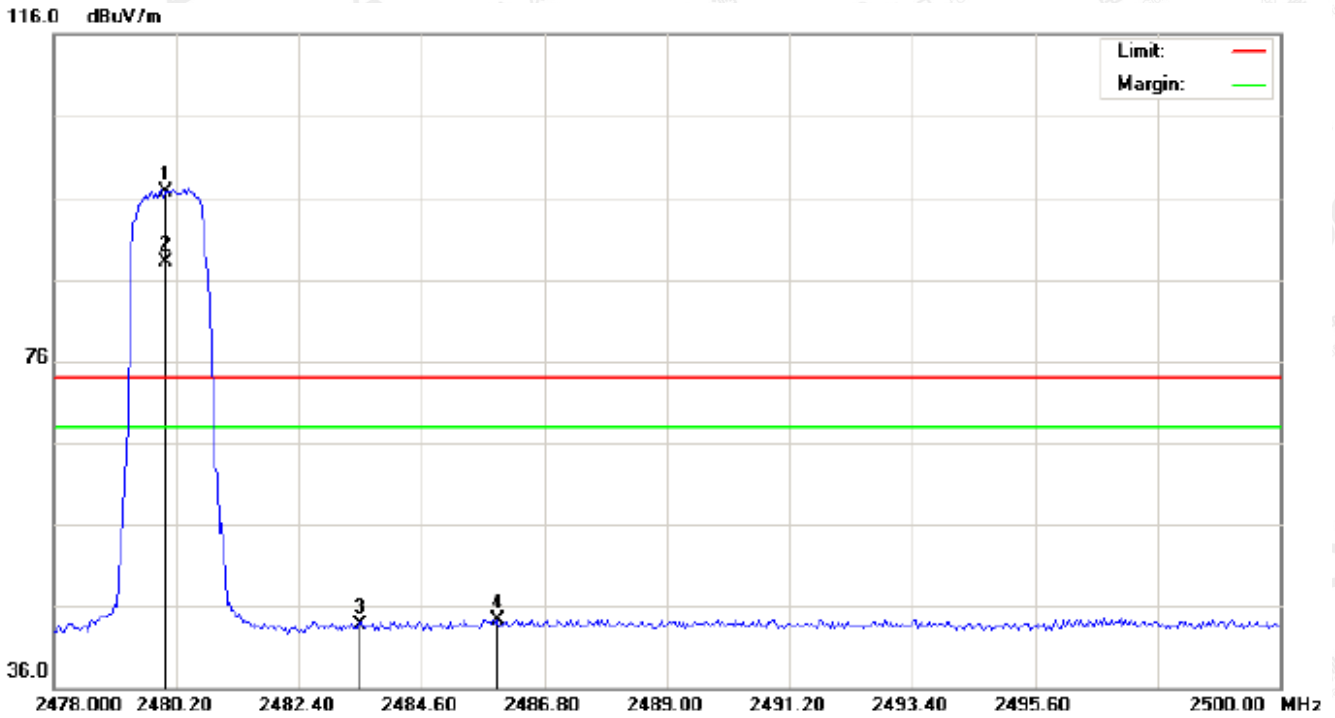
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1	*	2480.000	86.55	10.41	96.96	74.00	22.96	peak			
2	X	2480.000	78.06	10.41	88.47	74.00	14.47	AVG	100	297	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2488.707	33.66	10.42	44.08	74.00	-29.92	peak			

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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	86.32	10.41	96.73	74.00	22.73	peak			
2	X	2480.000	77.71	10.41	88.12	74.00	14.12	AVG	100	55	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.957	33.98	10.41	44.39	74.00	-29.61	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.

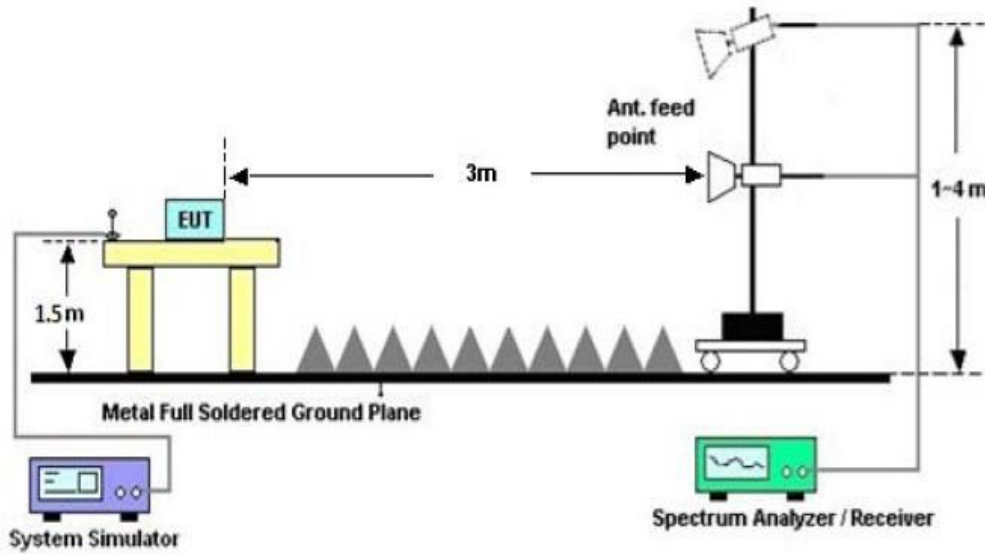
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

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 hopping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



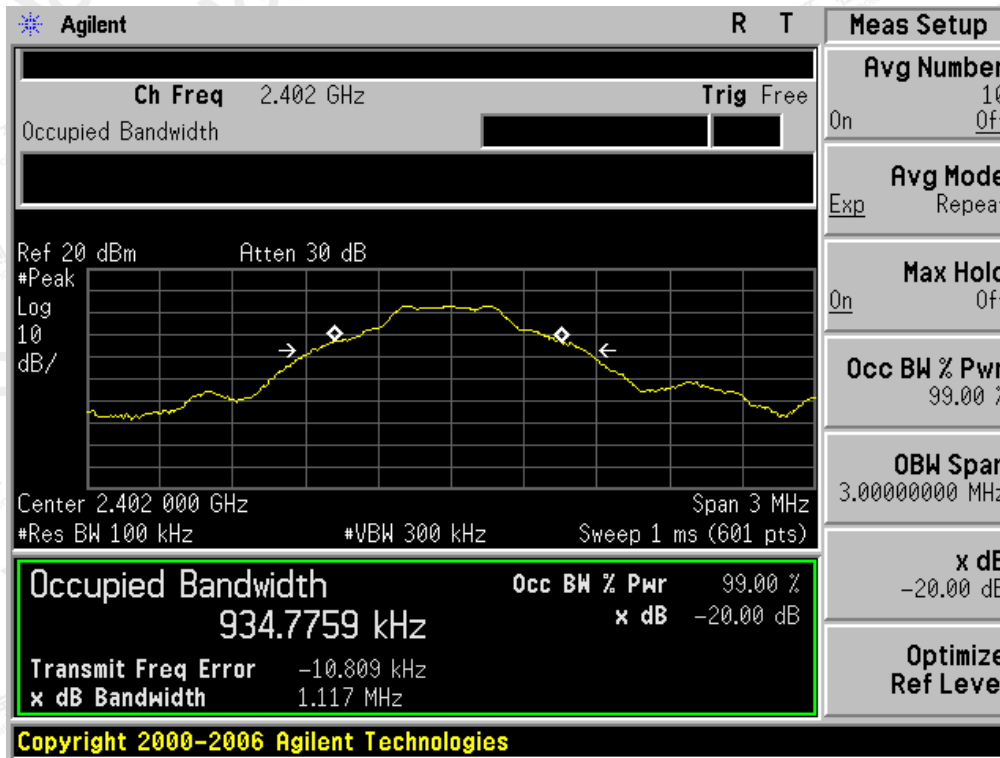
11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

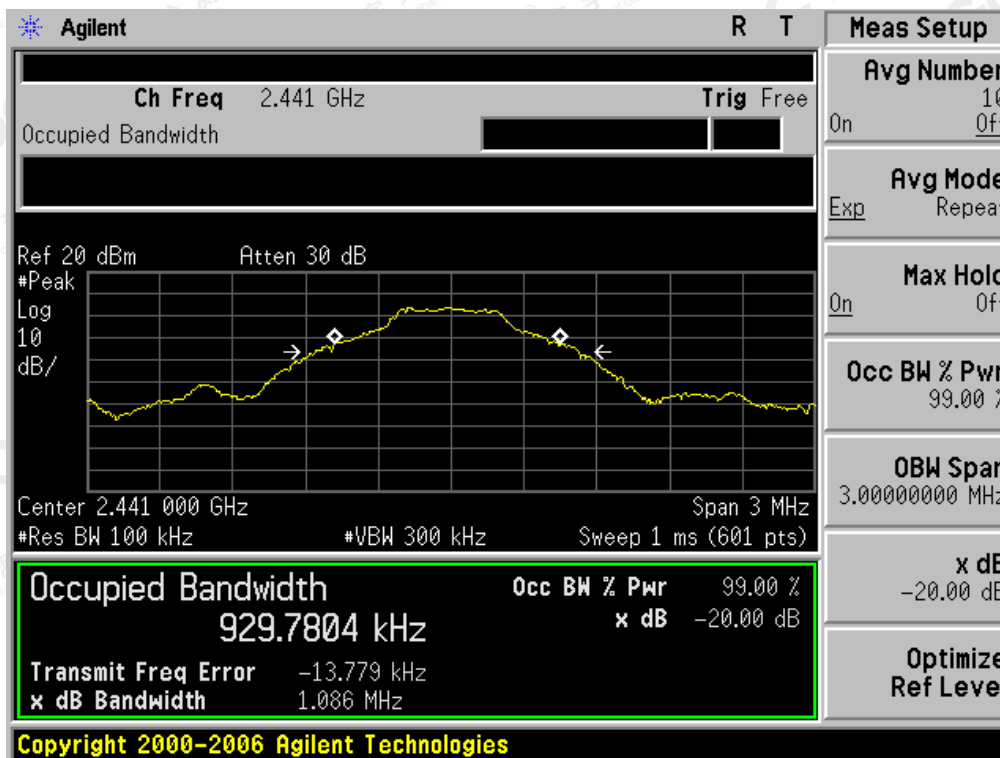
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
		Test Data (MHz)		Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	0.935	1.117	PASS
	Middle Channel	0.930	1.086	PASS
	High Channel	0.934	1.089	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

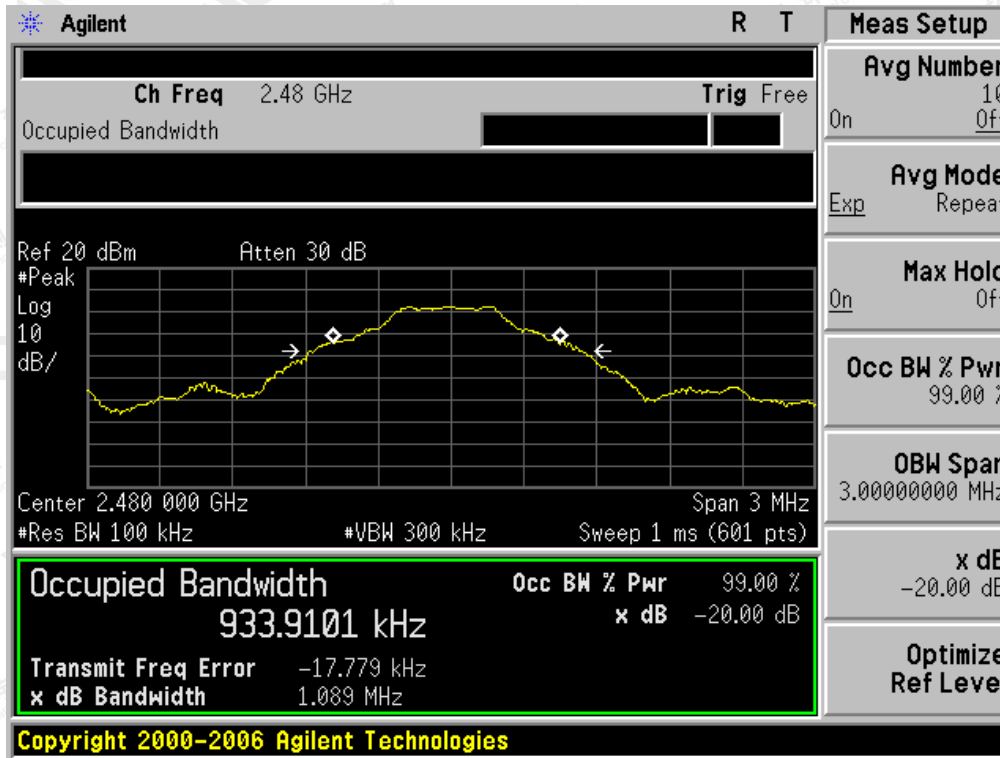


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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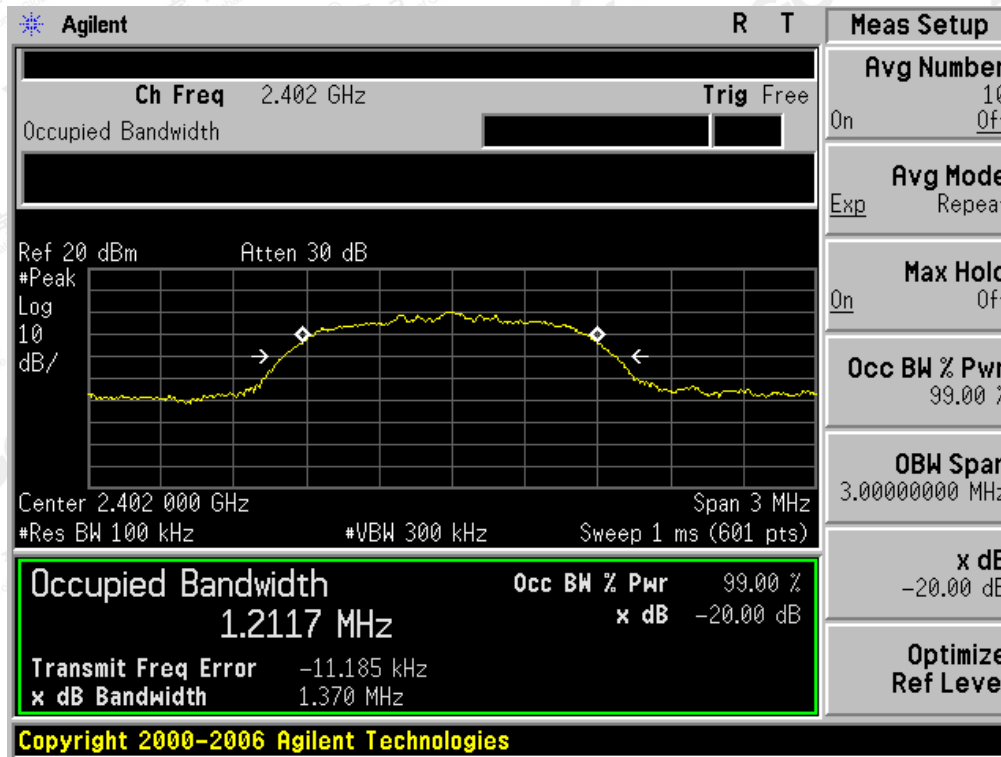
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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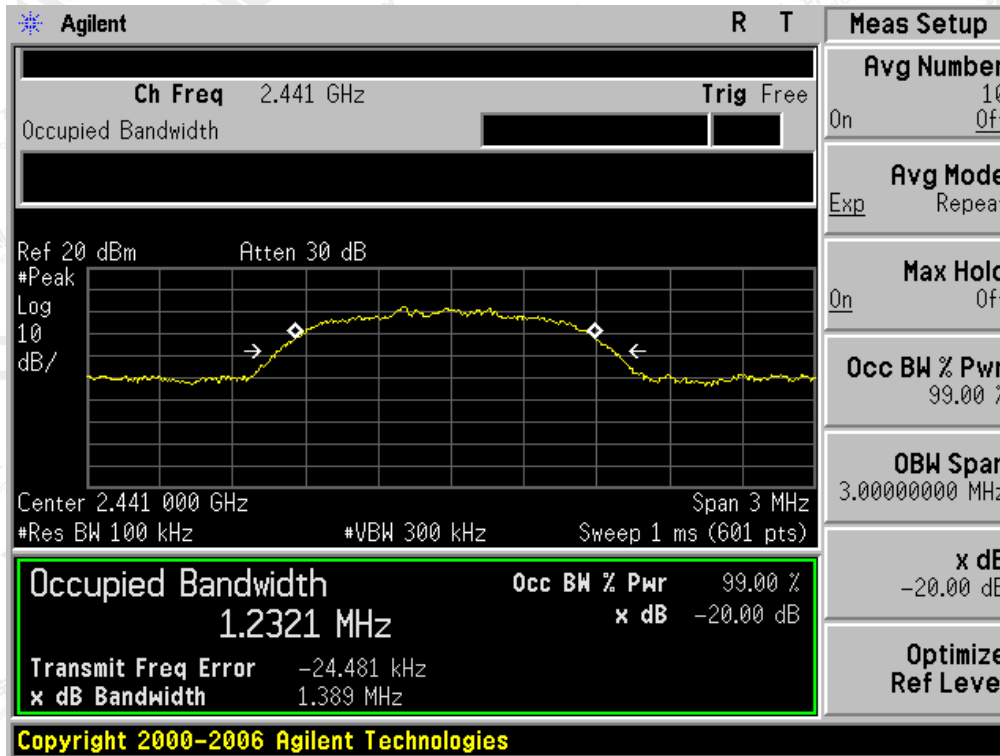
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.212	1.370	PASS
	Middle Channel	1.232	1.389	PASS
	High Channel	1.252	1.395	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

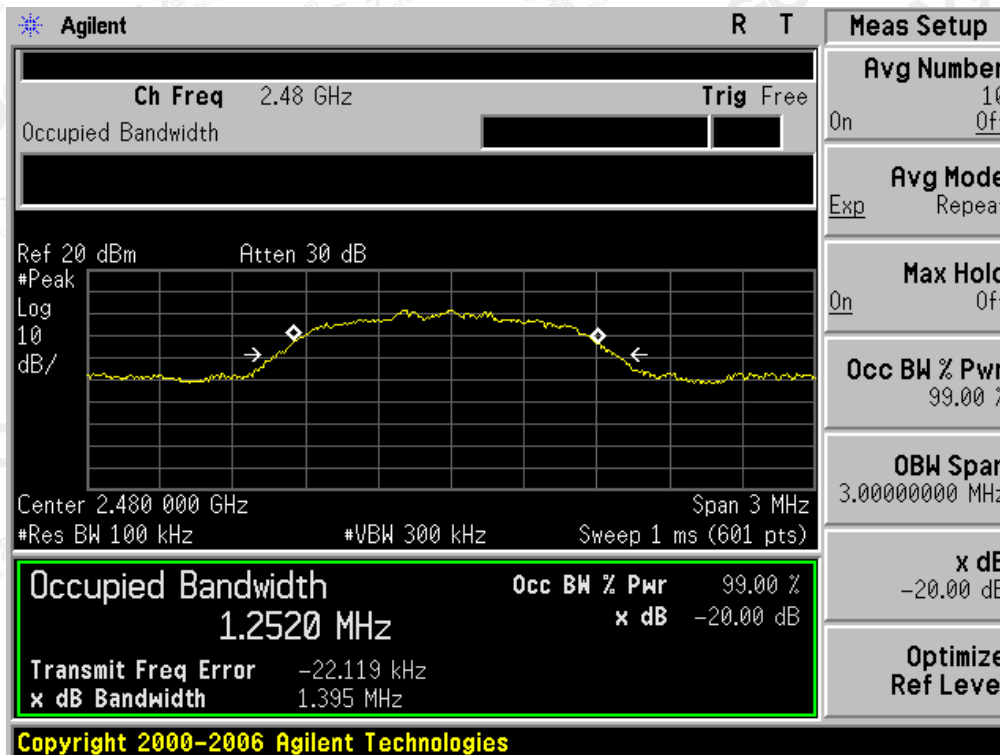


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



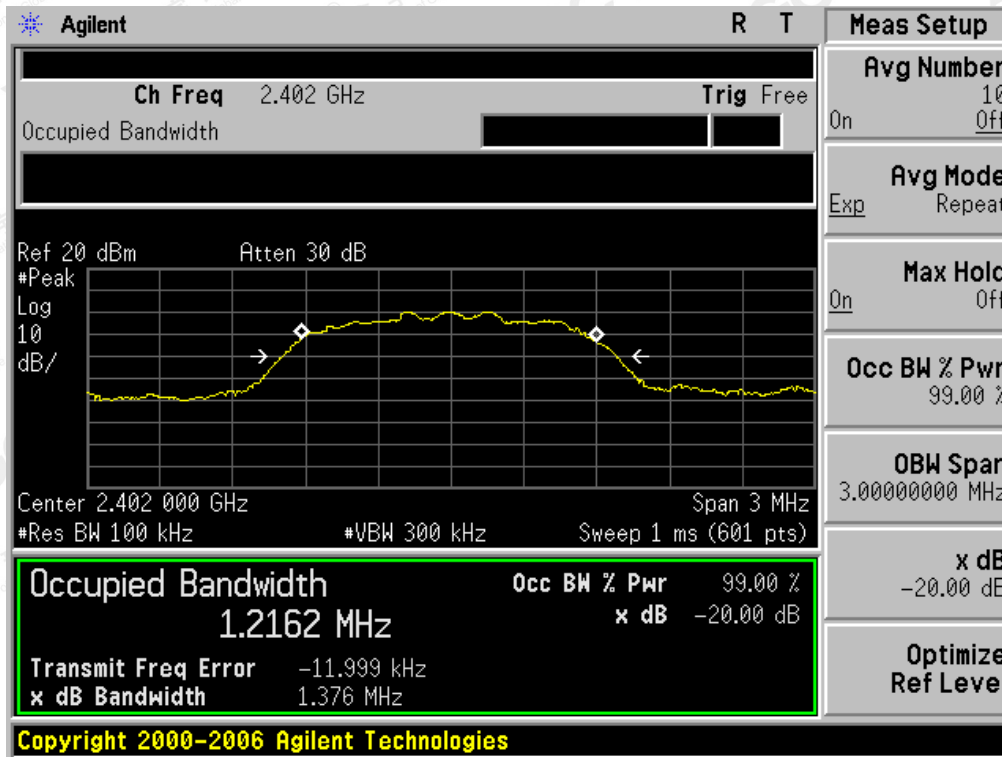
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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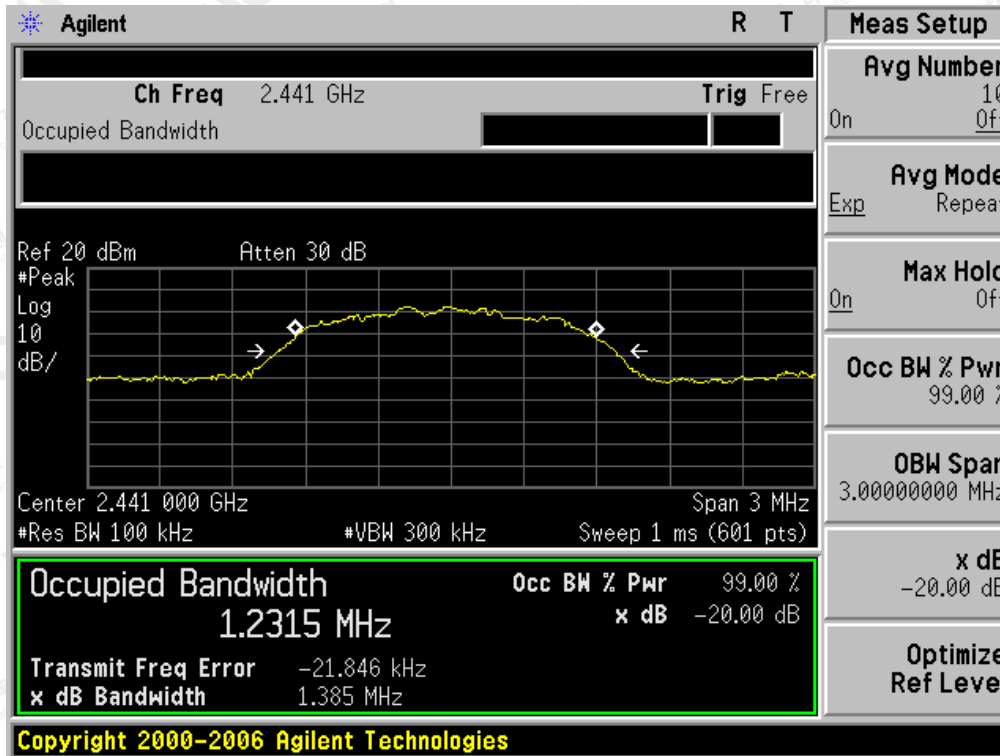
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.216	1.376	PASS
	Middle Channel	1.232	1.385	PASS
	High Channel	1.259	1.400	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

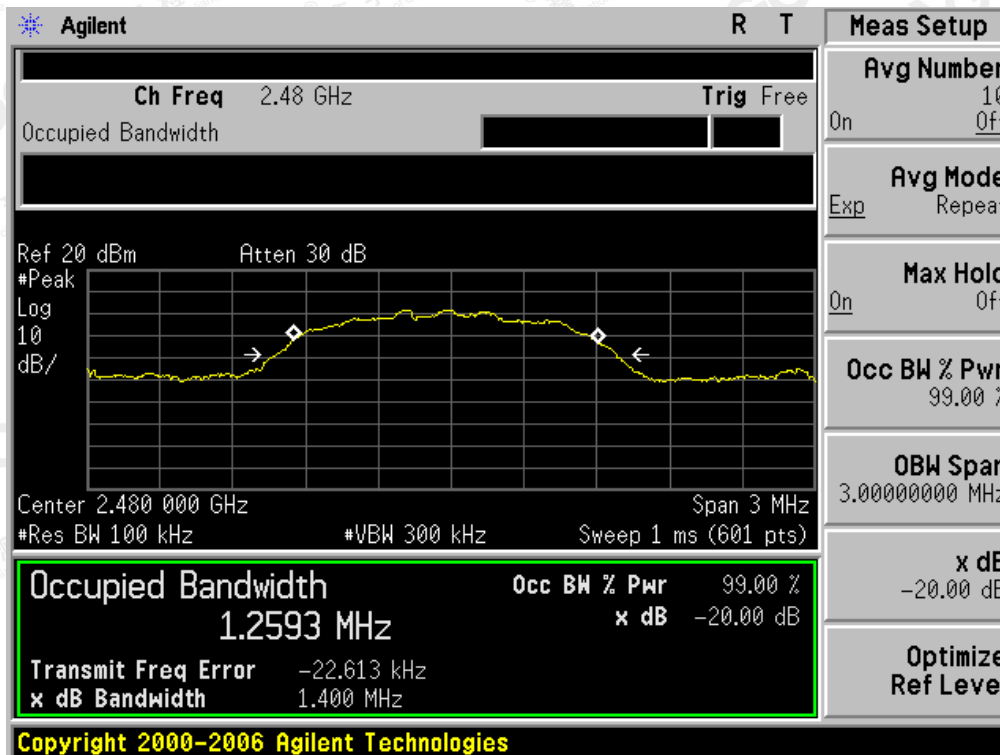


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

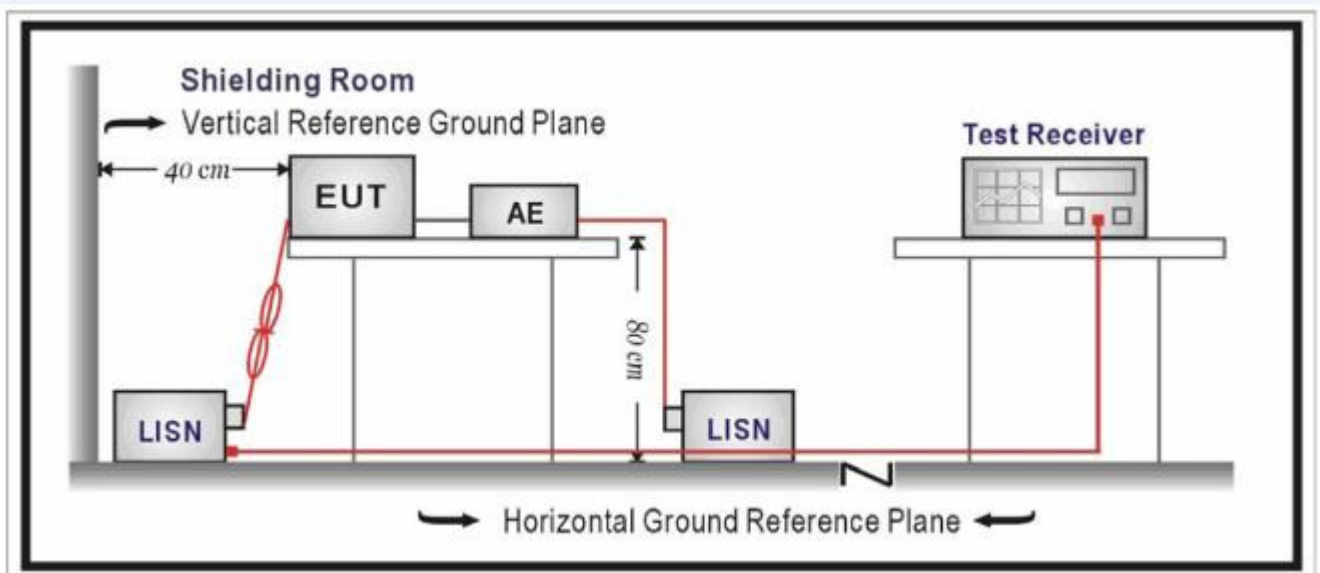
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	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



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12.3. 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 or PC which received 120V/60Hz power 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.

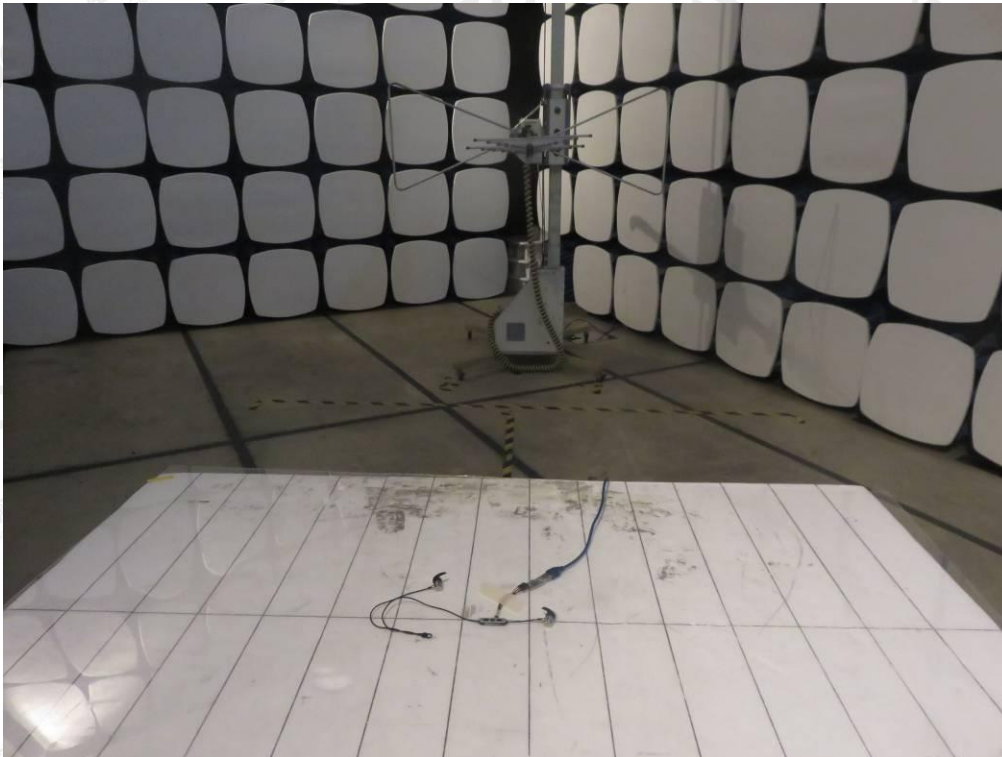
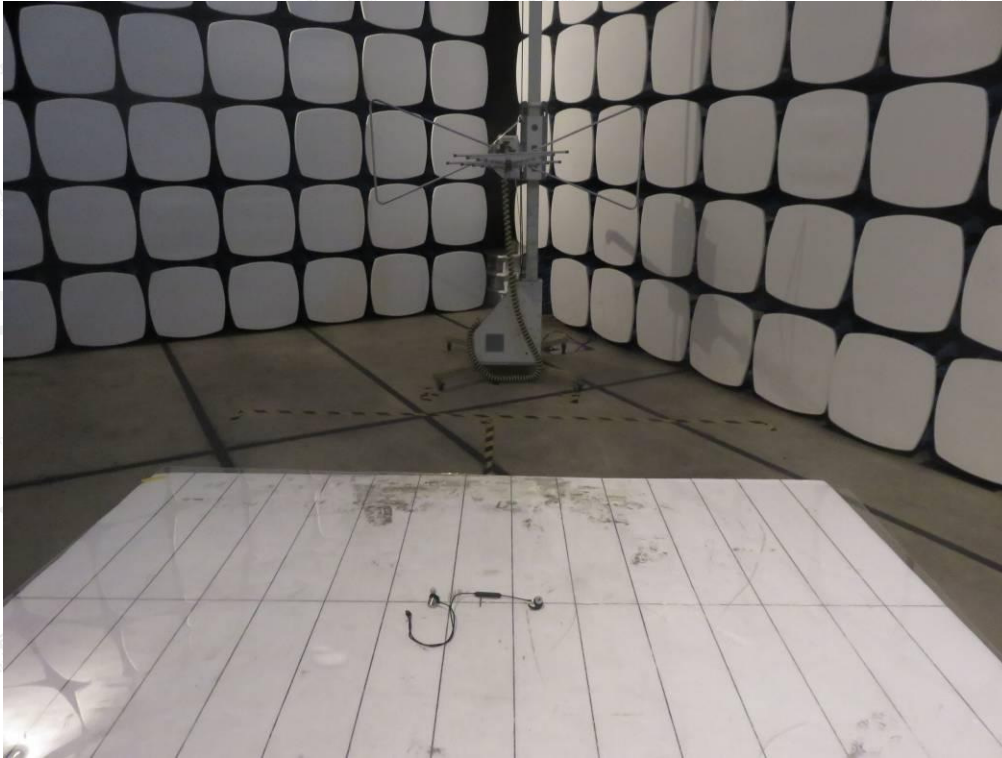
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

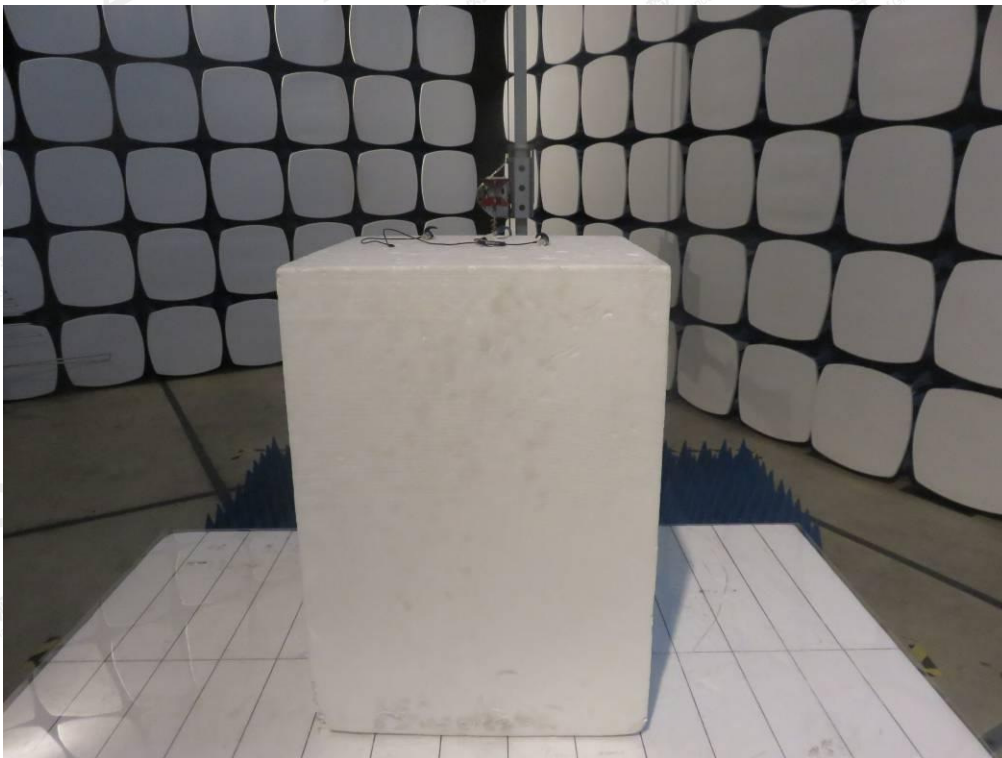
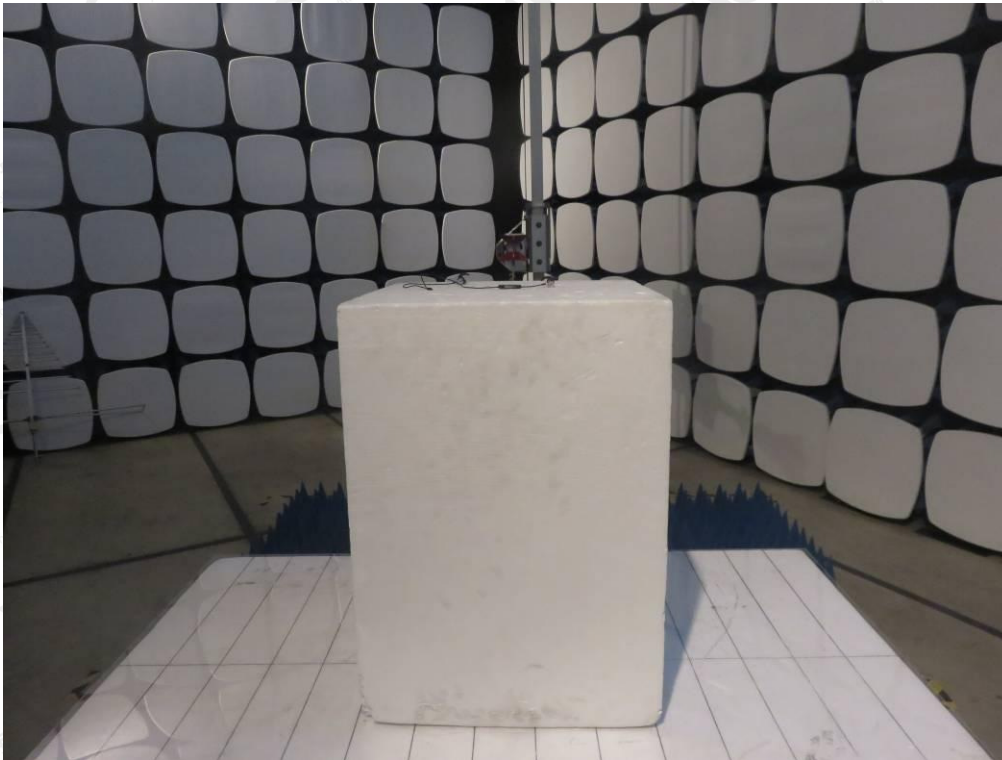
Note: The BT function of EUT is not work when charging.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT

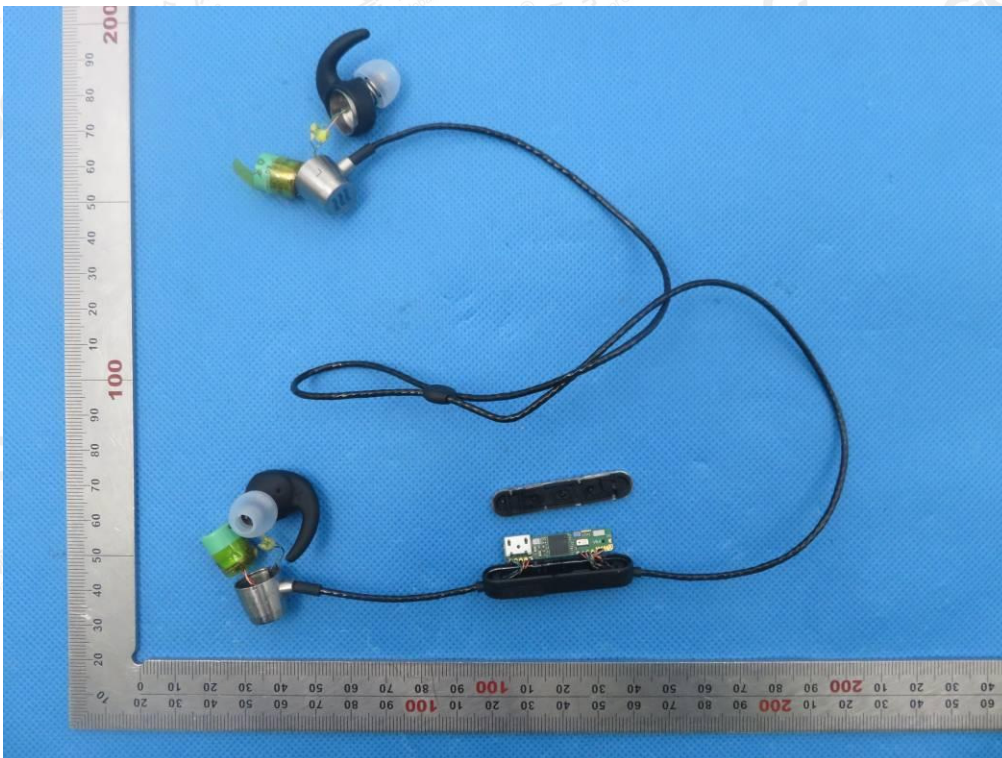


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VIEW OF EUT (PORT)

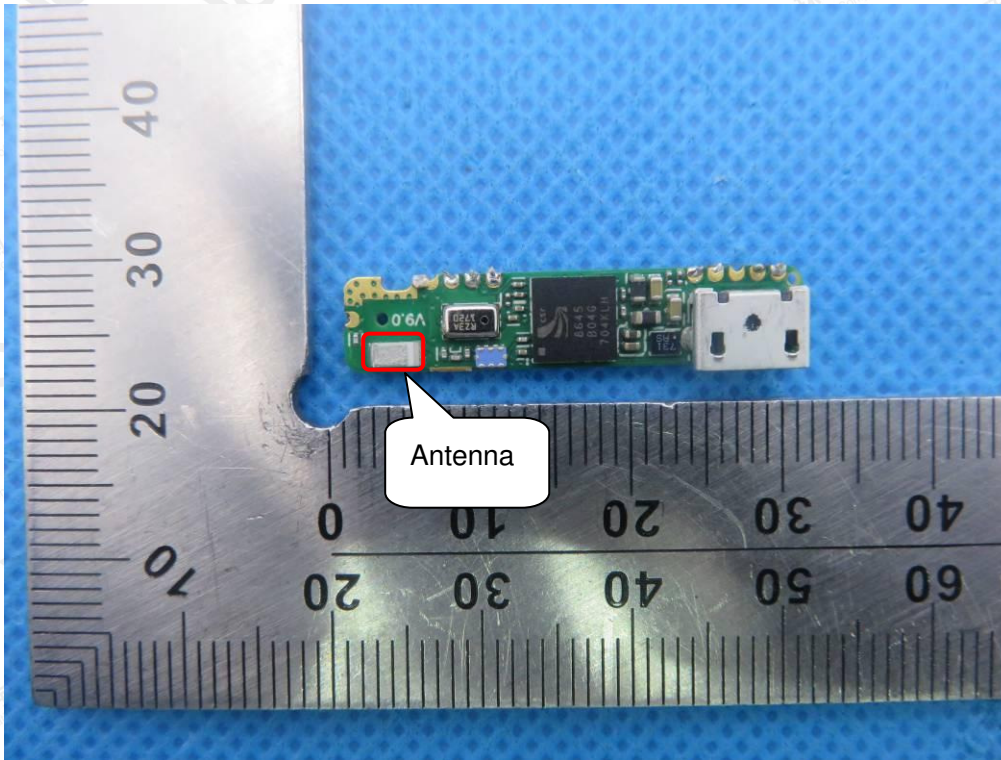


OPEN VIEW OF EUT

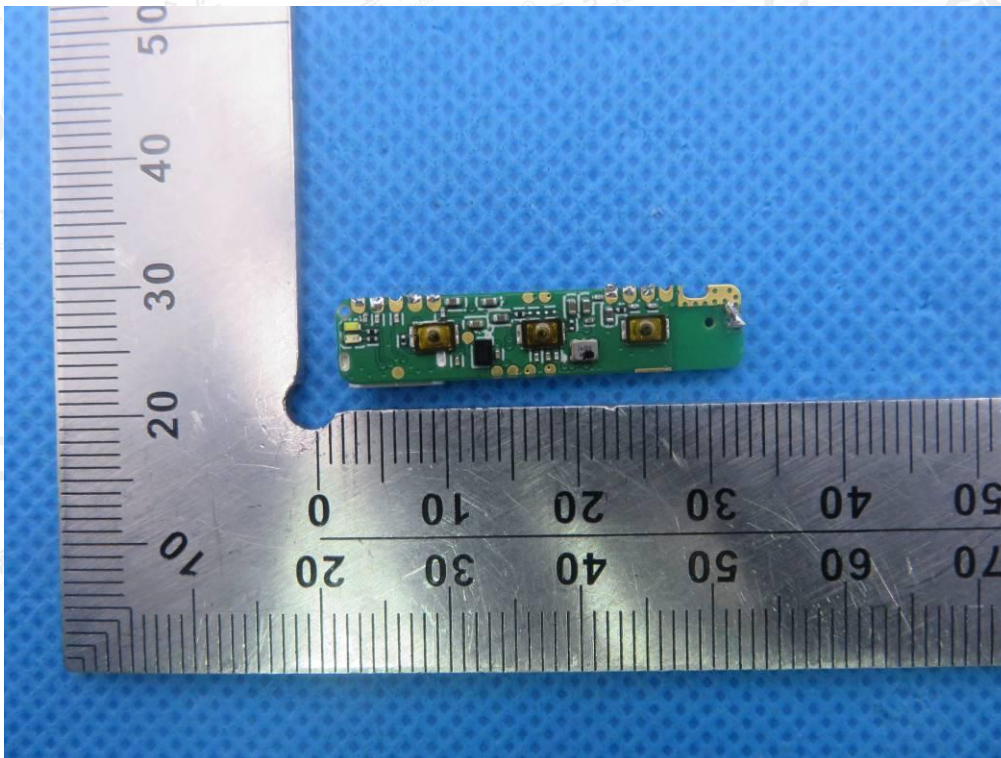


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



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Series Model-BES1713

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT

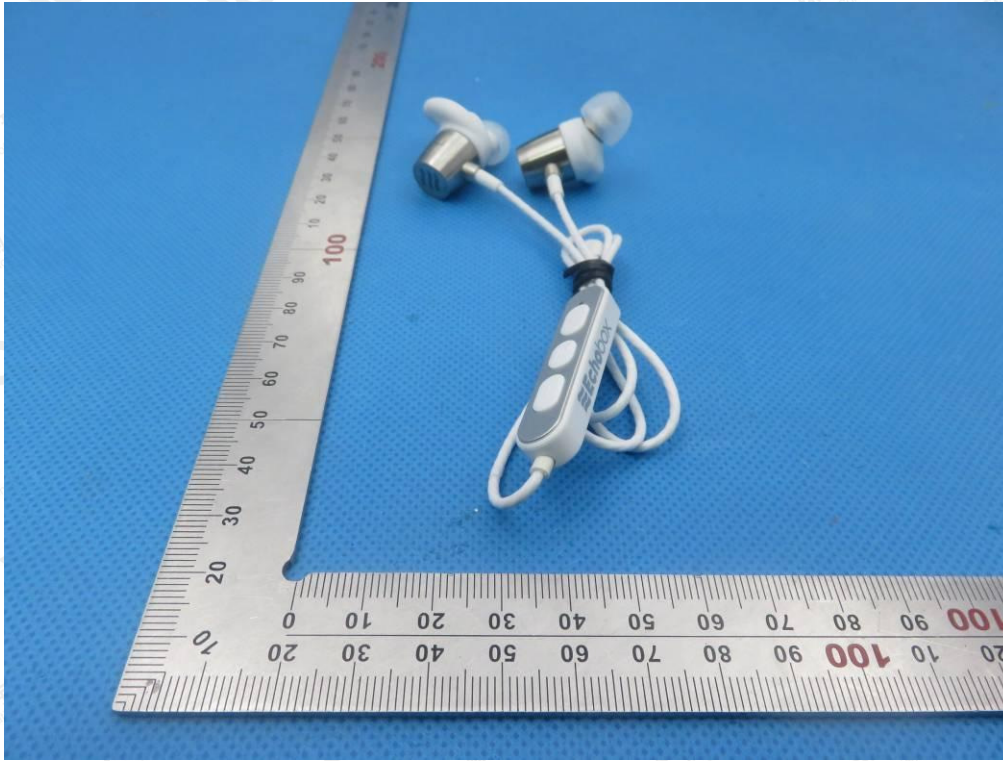


BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



----END OF REPORT----

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