

FCC Test Report

Report No.: AGC00803180701FE03

FCC ID : ZE9-ST-AMBK
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Satechi Wireless Keyboard for Mac
BRAND NAME : SATECHI
MODEL NAME : See page 4
CLIENT : SARIANA LLC
DATE OF ISSUE : July 26, 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	/	July 26, 2018	Valid	Initial release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCIES	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM	8
5.2. EQUIPMENT USED IN EUT SYSTEM	8
5.3. SUMMARY OF TEST RESULTS	9
6. TEST FACILITY	10
7. TEST METHOD	11
8. TEST EQUIPMENT LIST	11
9. RADIATED EMISSION	12
9.1. TEST LIMIT	12
9.2. MEASUREMENT PROCEDURE	13
9.3. TEST SETUP	15
9.4. TEST RESULT	17
10. BAND EDGE EMISSION	36
10.1. MEASUREMENT PROCEDURE	36
10.2 TEST SETUP	36
10.3 RADIATED TEST RESULT	37
11. 20DB BANDWIDTH	41
11.1. MEASUREMENT PROCEDURE	41
11.2. TEST SET-UP	41
11.3. LIMITS AND MEASUREMENT RESULTS	41
12. FCC LINE CONDUCTED EMISSION TEST	44
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	44
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	44
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	45
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	45
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	46
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	48
APPENDIX B: PHOTOGRAPHS OF EUT	51

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1. VERIFICATION OF CONFORMITY

Applicant	SARIANA LLC
Address	7365 Mission Gorge Road, Suite G, San Diego , CA 92120, USA
Manufacturer	Shenzhen Hangshi Technology Co., Ltd
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.
Product Designation	Satechi Wireless Keyboard for Mac
Brand Name	SATECHI
Test Model	ST-AMBK
Series Model	ST-AMBKS, ST-AMBKS-FR, ST-AMBKS-DE, ST-AMBKS-ND, ST-AMBKS-CH, ST-AMBKS-UK, ST-AMBKS-RU, ST-AMBKS-AR, ST-AMBKS-JP, ST-AMBKM, ST-AMBKM-FR, ST-AMBKM-DE, ST-AMBKM-ND, ST-AMBKM-CH, ST-AMBKM-UK, ST-AMBKM-RU, ST-AMBKM-AR, ST-AMBKM-JP
Difference Description	All the same except for the appearance color
Date of test	July 19, 2018 to July 23, 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



Henry Zhang(Zhang Zhuorui) July 23, 2018

Reviewed By



Cool Cheng(Cheng Mengguo) July 26, 2018

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer July 26, 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
Bluetooth Version	V3.0
Modulation	BR ☒ GFSK, EDR ☐ $\pi/4$ -DQPSK, ☐ 8DPSK BLE ☐ GFSK
Number of channels	79
Hardware Version	VER1.3
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	1.87dBi
Power Supply	DC 3.7V by battery
Note: The USB port only used for charging and can't be used to transfer data with PC.	

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, $U_c = \pm 2.75 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8 \text{ dB}$

4. DESCRIPTION OF TEST MODES

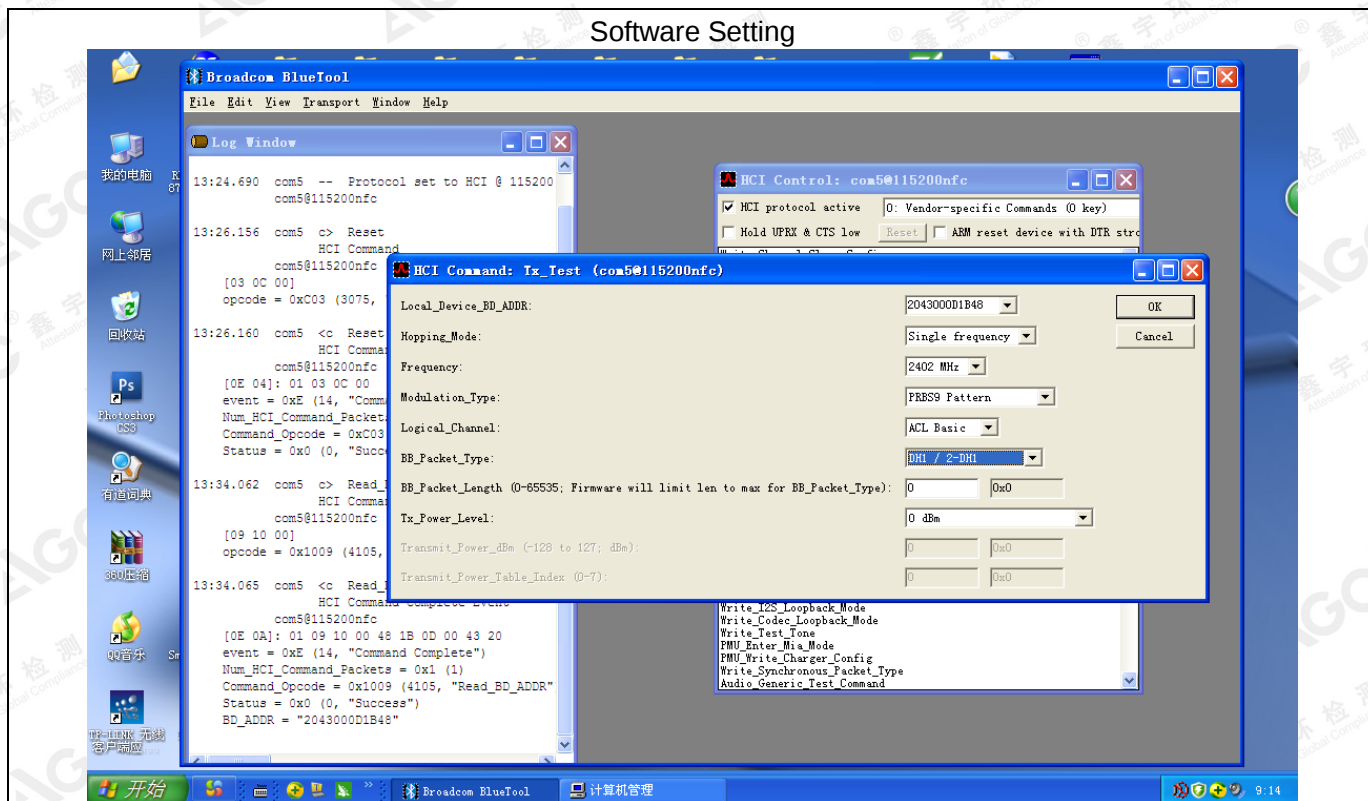
NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	BT Link with charging
5	BT Link(Hopping mode)

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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Software Setting

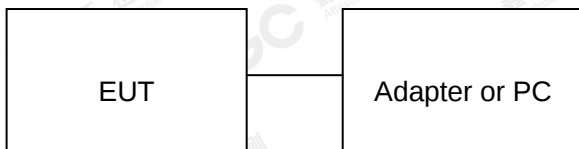


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5. SYSTEM TEST CONFIGURATION

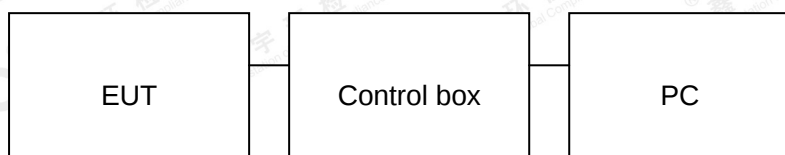
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Satechi Wireless Keyboard for Mac	SATECHI	ST-AMBK	EUT
2	Battery	TW	304355	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	DOFLY	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	1m unshielded	A.E
8	IPOD	APPLE	A1367	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	Compliant
§15.215	Bandwidth	Compliant

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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
EMI Test Receiver	ROHDE&SCHW ARZ	ESCI	100694	July 02, 2018	July 01, 2019
LISN	R&S	ESH3-Z5	838979/009	Mar.01 2018	Feb. 28, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY5347050 4	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	SCHWARZBEC K	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
Antenna	SCHWARZBEC K	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	--	Jun.20, 2018	Jun.19, 2019

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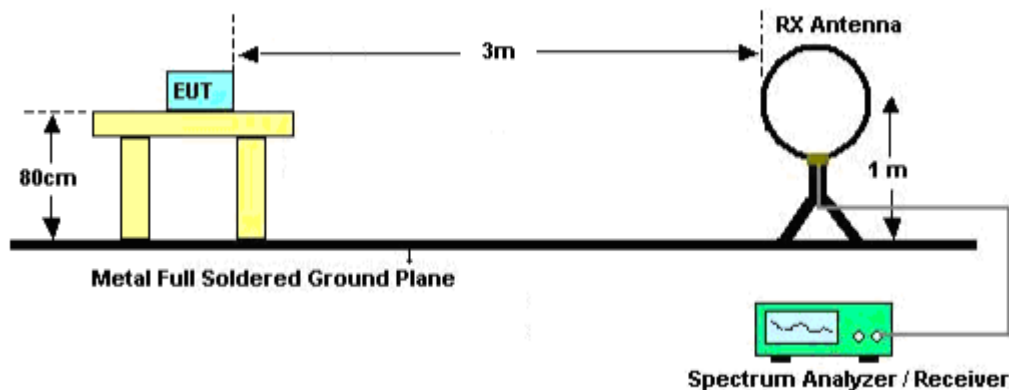
The following table is the setting of spectrum analyzer and receiver.

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	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ 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

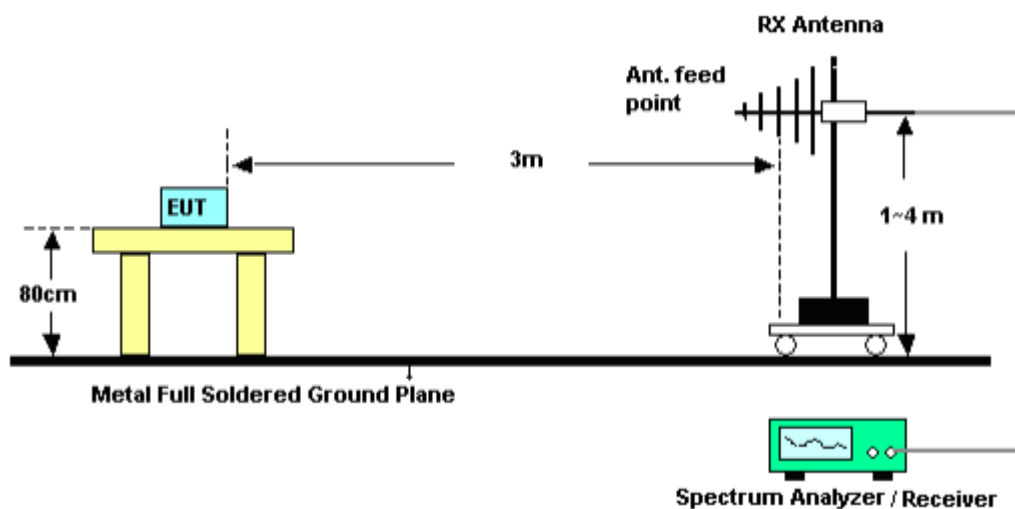
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9.3. TEST SETUP

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

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		96.2831	23.27	6.77	30.04	43.50	-13.46	peak			
2	*	120.5331	24.02	6.11	30.13	43.50	-13.37	peak			
3		144.7830	12.87	14.04	26.91	43.50	-16.59	peak			
4		212.6833	11.40	10.71	22.11	43.50	-21.39	peak			
5		358.1831	12.96	18.79	31.75	46.00	-14.25	peak			
6		865.8165	0.85	27.72	28.57	46.00	-17.43	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		120.5332	20.08	7.08	27.16	43.50	-16.34	peak			
2		154.4832	10.54	15.29	25.83	43.50	-17.67	peak			
3		183.5833	10.34	13.16	23.50	43.50	-20.00	peak			
4		371.1166	5.85	18.88	24.73	46.00	-21.27	peak			
5		618.4666	1.91	23.14	25.05	46.00	-20.95	peak			
6	*	909.4666	1.79	28.87	30.66	46.00	-15.34	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

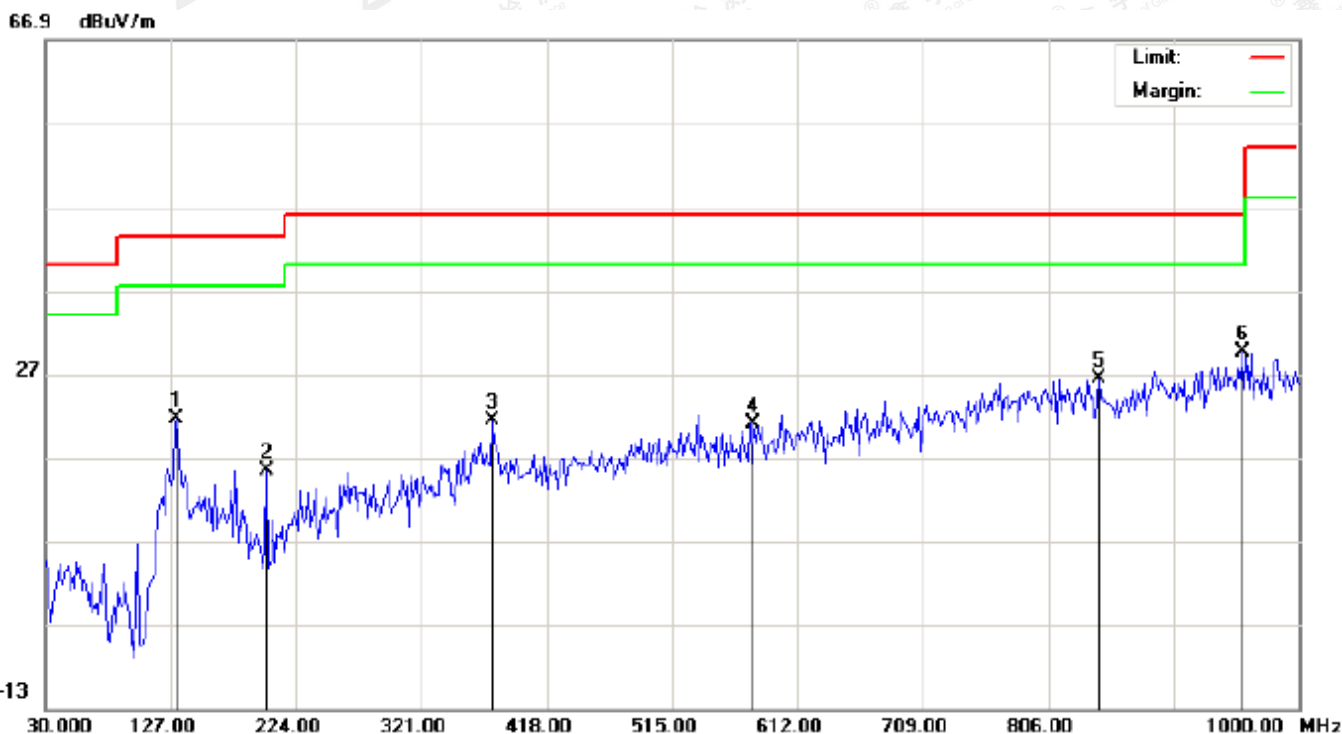


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	120.5332	25.55	6.11	31.66	43.50	-11.84	peak			
2		144.7831	15.69	14.04	29.73	43.50	-13.77	peak			
3		301.6000	11.95	15.52	27.47	46.00	-18.53	peak			
4		367.8833	11.48	18.86	30.34	46.00	-15.66	peak			
5		644.3333	1.40	23.84	25.24	46.00	-20.76	peak			
6		930.4832	1.87	29.46	31.33	46.00	-14.67	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		131.8500	9.79	11.80	21.59	43.50	-21.91	peak			
2		201.3667	6.19	9.13	15.32	43.50	-28.18	peak			
3		375.9667	2.57	18.91	21.48	46.00	-24.52	peak			
4		578.0500	-1.55	22.62	21.07	46.00	-24.93	peak			
5		844.8000	-0.95	27.31	26.36	46.00	-19.64	peak			
6	*	956.3500	-0.41	29.94	29.53	46.00	-16.47	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

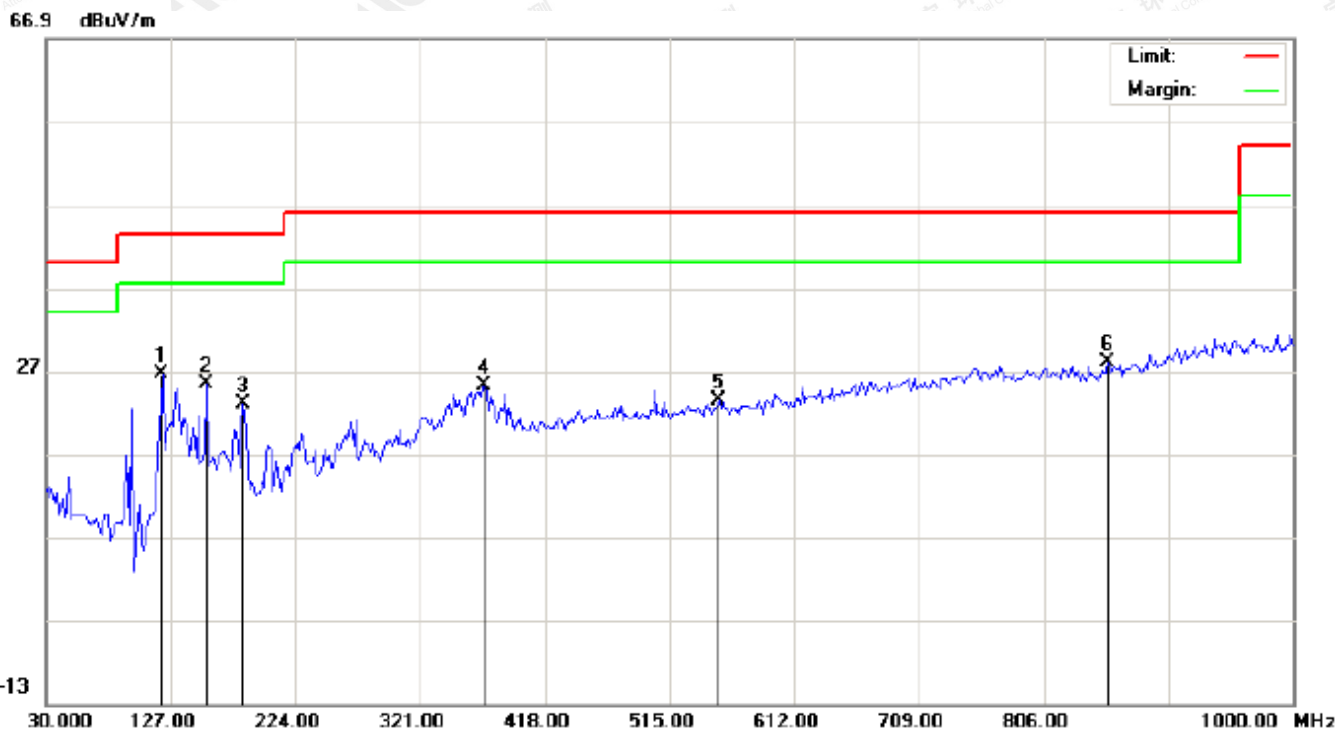


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		96.2831	21.77	6.77	28.54	43.50	-14.96	peak			
2	*	120.5331	22.52	6.11	28.63	43.50	-14.87	peak			
3		212.6833	10.90	10.71	21.61	43.50	-21.89	peak			
4		358.1831	11.96	18.79	30.75	46.00	-15.25	peak			
5		683.1331	-0.35	24.76	24.41	46.00	-21.59	peak			
6		915.9333	1.31	29.05	30.36	46.00	-15.64	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 Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	120.5331	19.58	7.08	26.66	43.50	-16.84	peak			
2		154.4832	10.04	15.29	25.33	43.50	-18.17	peak			
3		183.5833	9.84	13.16	23.00	43.50	-20.50	peak			
4		371.1166	6.35	18.88	25.23	46.00	-20.77	peak			
5		553.7998	0.95	22.50	23.45	46.00	-22.55	peak			
6		856.1167	0.48	27.47	27.95	46.00	-18.05	peak			

RESULT: PASS

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

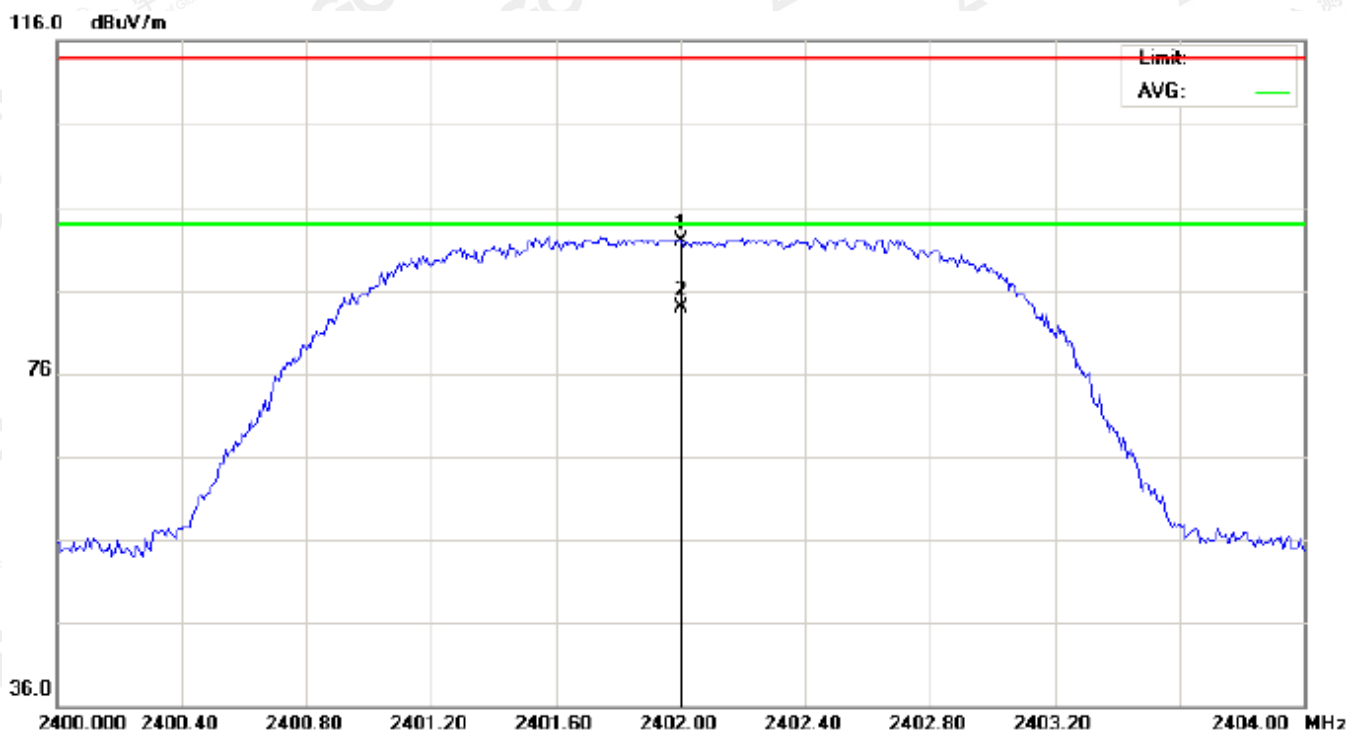
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHz

For Fundamental

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

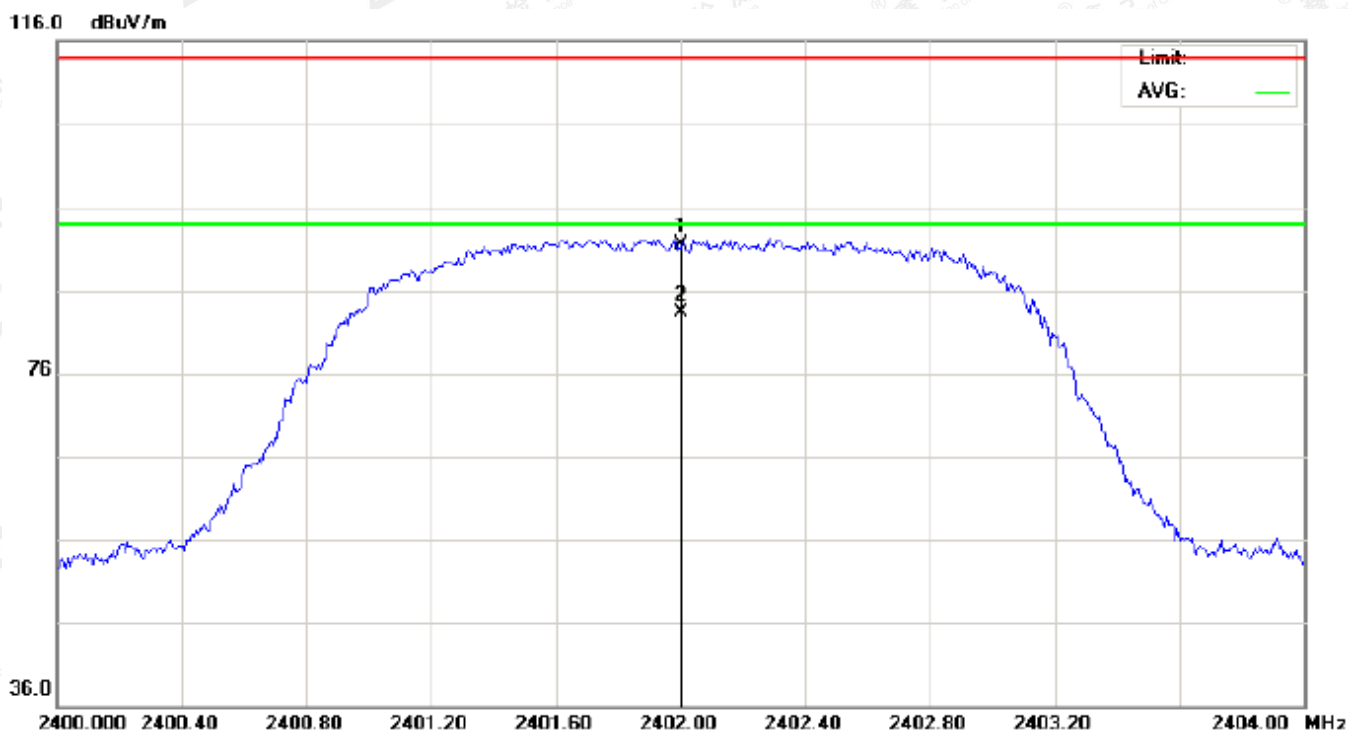


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2402.000	81.56	10.32	91.88	114.00	-22.12	peak			
2	*	2402.000	73.58	10.32	83.90	94.00	-10.10	AVG	100	117	

RESULT: PASS

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

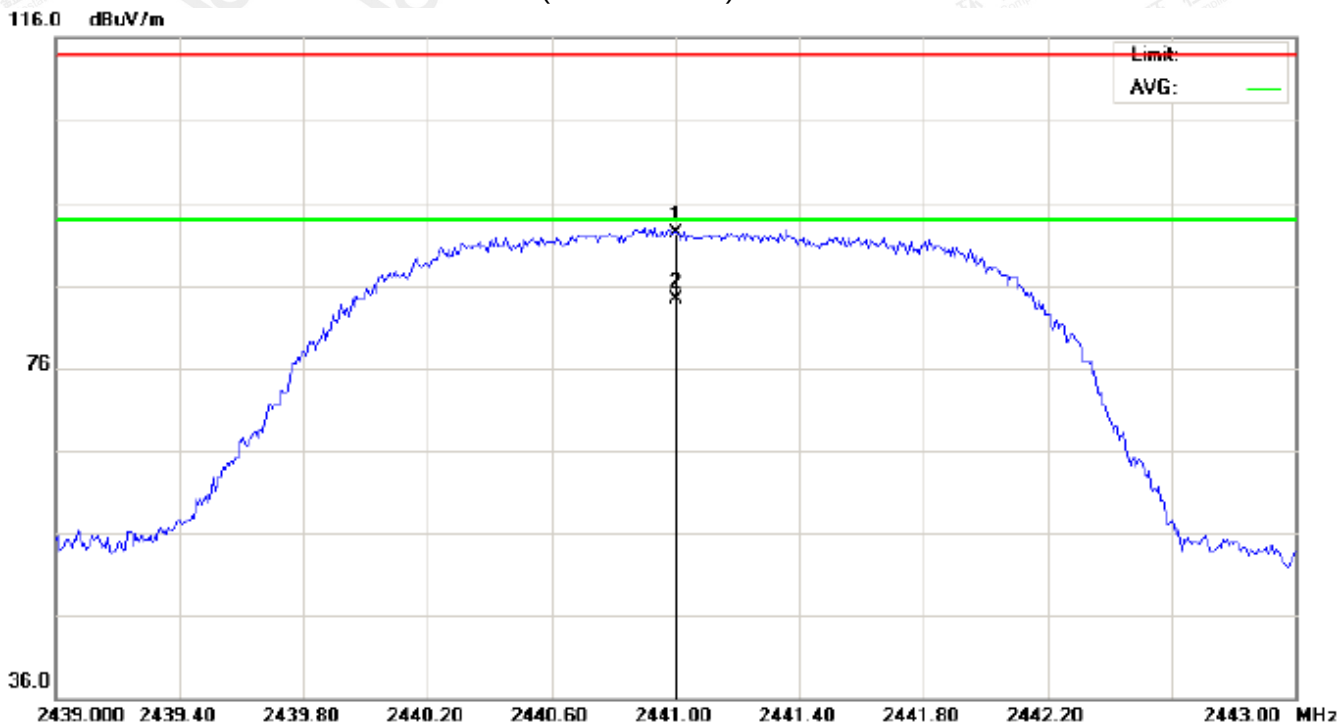


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	81.13	10.32	91.45	114.00	-22.55	peak			
2	*	2402.000	73.07	10.32	83.39	94.00	-10.61	AVG	100	251	

RESULT: PASS

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

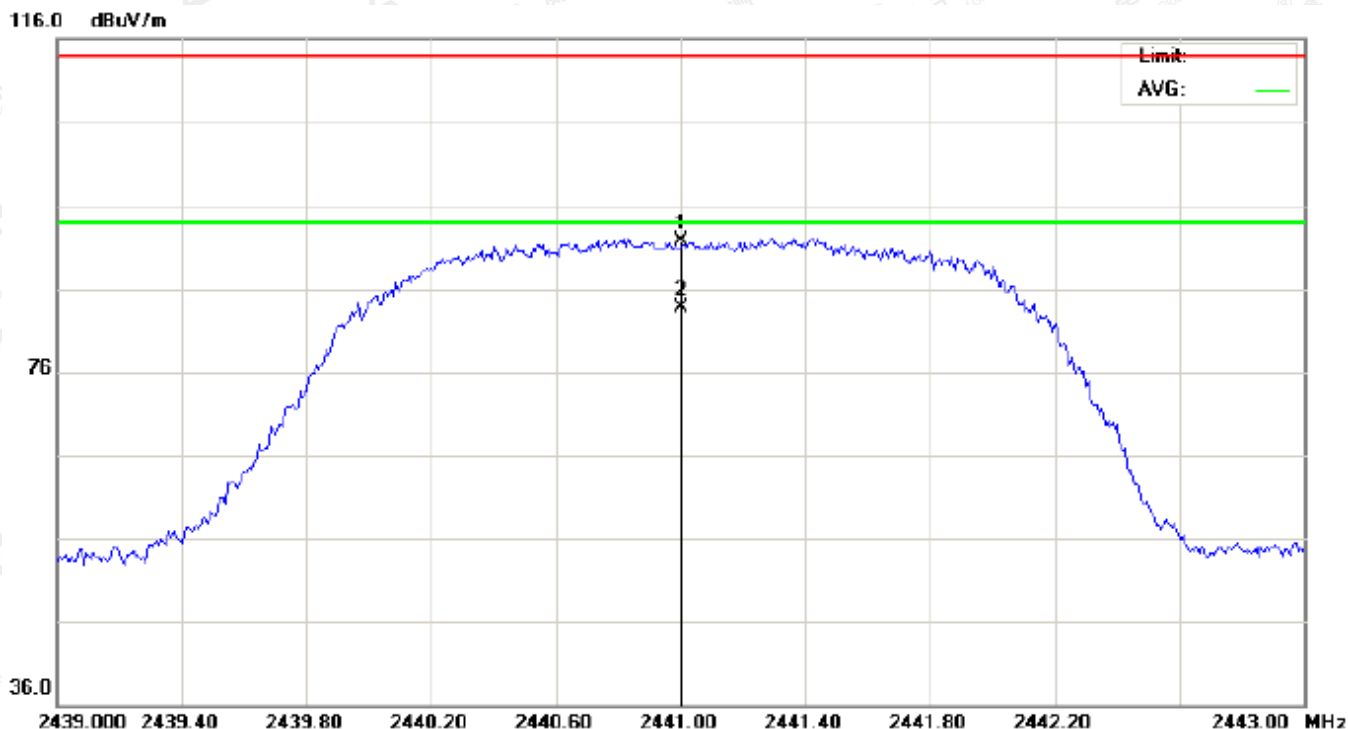


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2441.000	82.04	10.36	92.40	114.00	-21.60	peak			
2	*	2441.000	73.87	10.36	84.23	94.00	-9.77	AVG	100	116	

RESULT: PASS

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

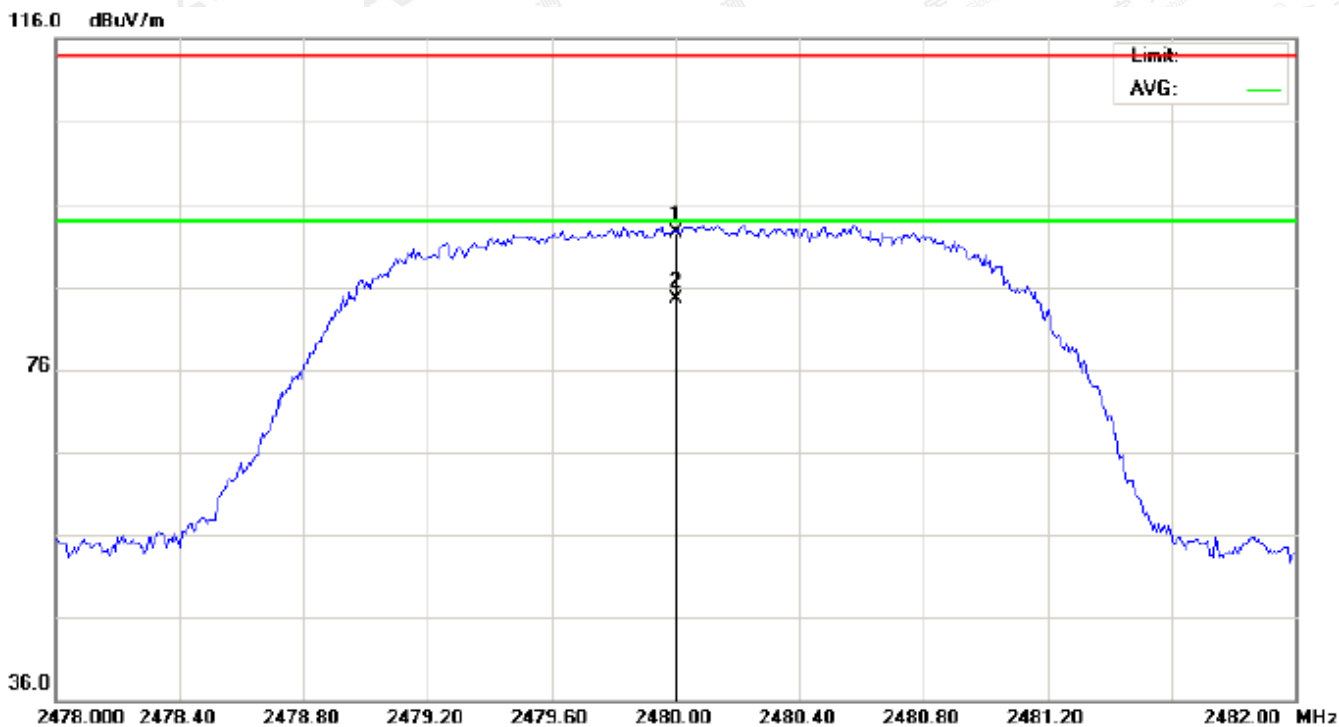


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	81.35	10.36	91.71	114.00	-22.29	peak			
2	*	2441.000	73.39	10.36	83.75	94.00	-10.25	AVG	100	257	

RESULT: PASS

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

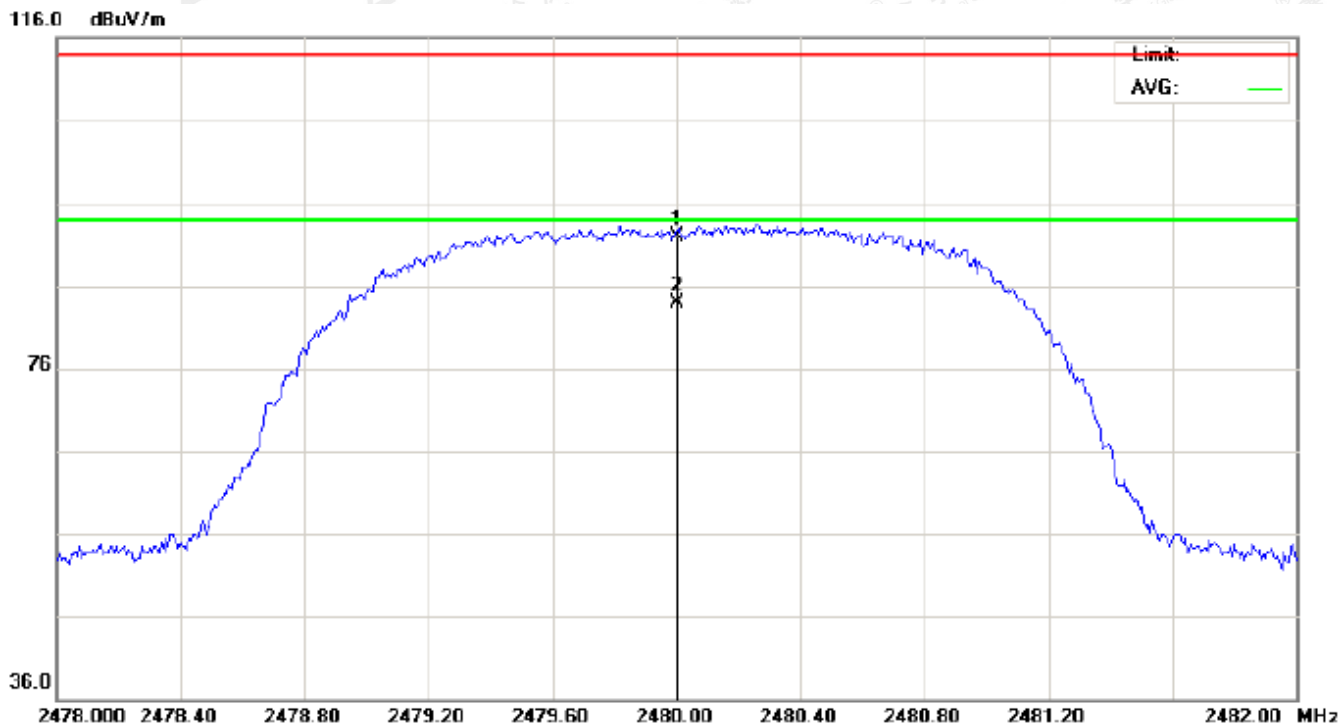


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	82.02	10.41	92.43	114.00	-21.57	peak			
2	*	2480.000	74.08	10.41	84.49	94.00	-9.51	AVG	100	114	

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	81.52	10.41	91.93	114.00	-22.07	peak			
2	*	2480.000	73.55	10.41	83.96	94.00	-10.04	AVG	100	255	

RESULT: PASS

Note: 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	81.56	10.32	91.88	114	-22.12	Horizontal
2402	81.13	10.32	91.45	114	-22.55	Vertical
2441	82.04	10.36	92.40	114	-21.60	Horizontal
2441	81.35	10.36	91.71	114	-22.29	Vertical
2480	82.02	10.41	92.43	114	-21.57	Horizontal
2480	81.52	10.41	91.93	114	-22.07	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.58	10.32	83.90	94	-10.10	Horizontal
2402	73.07	10.32	83.39	94	-10.61	Vertical
2441	73.87	10.36	84.23	94	-9.77	Horizontal
2441	73.39	10.36	83.75	94	-10.25	Vertical
2480	74.08	10.41	84.49	94	-9.51	Horizontal
2480	73.55	10.41	83.96	94	-10.04	Vertical

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For Harmonics

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

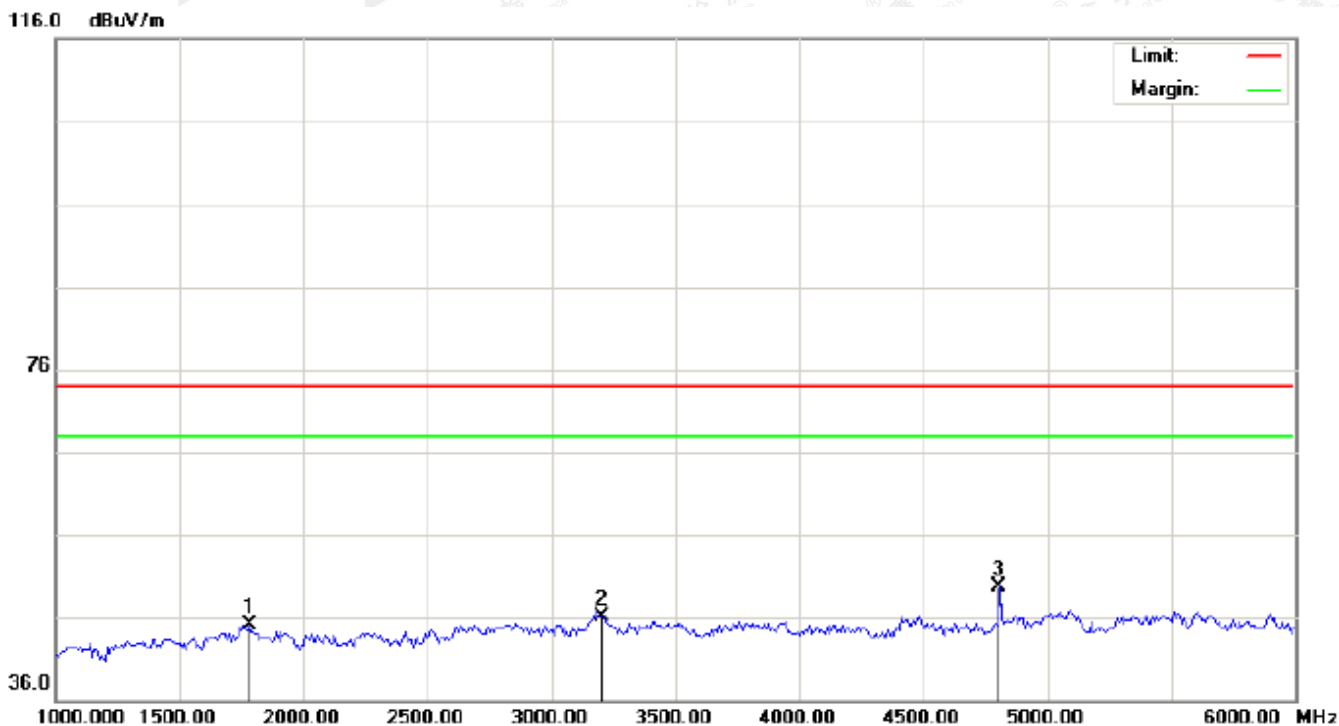


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	35.50	10.07	45.57	74.00	-28.43	peak			
2		3858.333	30.90	14.32	45.22	74.00	-28.78	peak			
3	*	4804.000	41.21	7.69	48.90	74.00	-25.10	peak			

RESULT: PASS

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

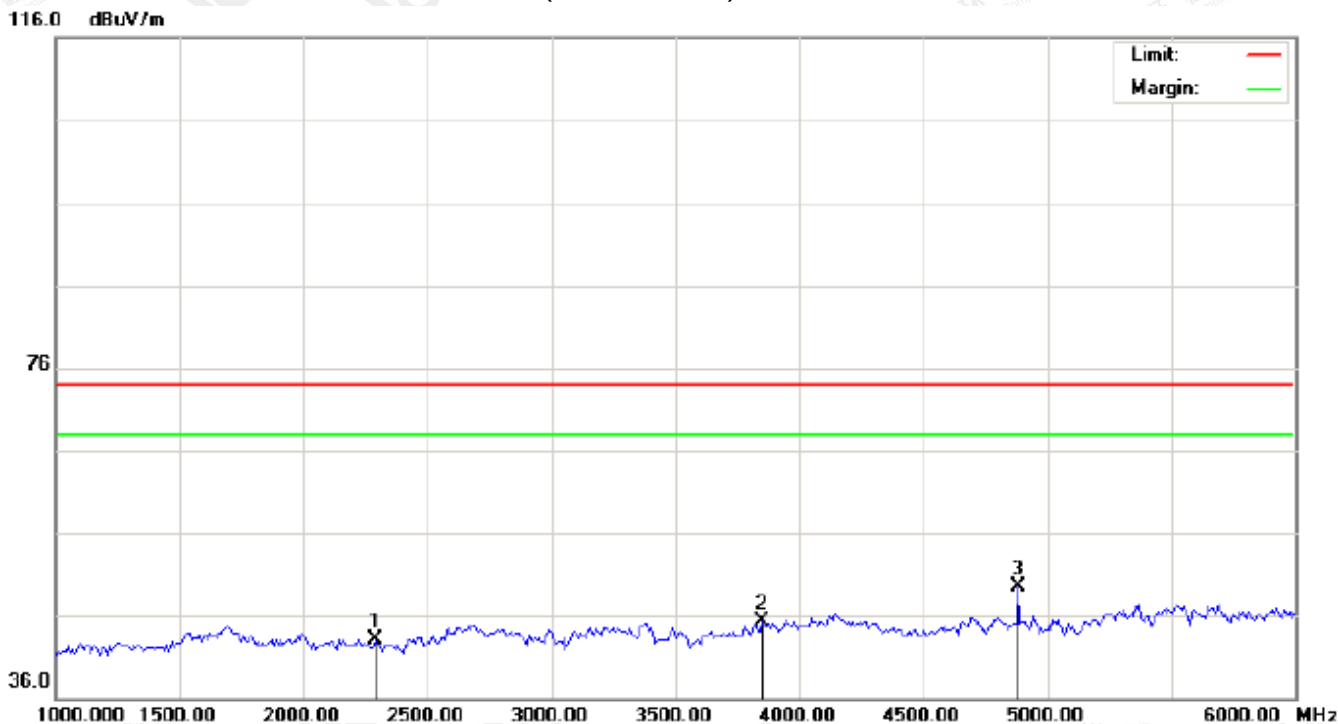


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		1783.333	37.57	7.60	45.17	74.00	-28.83	peak			
2		3200.000	34.33	11.83	46.16	74.00	-27.84	peak			
3	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

RESULT: PASS

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

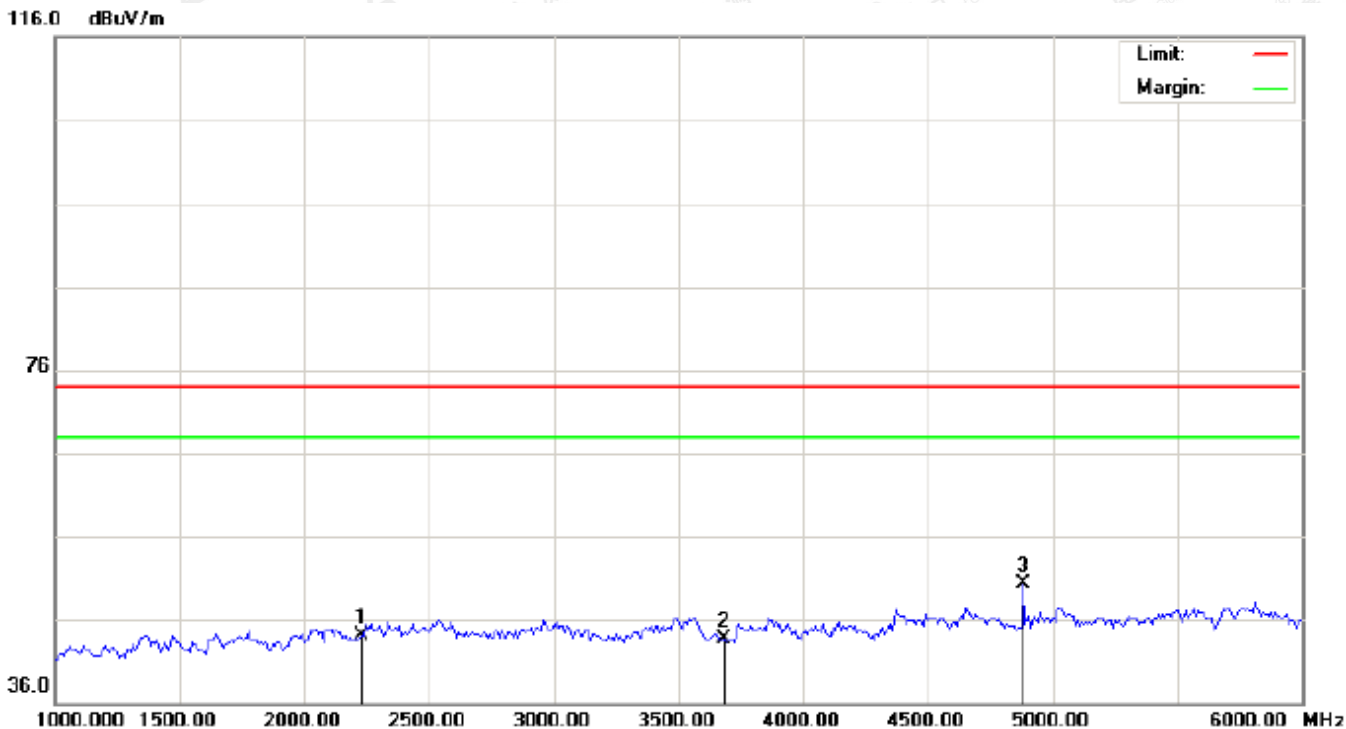


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2291.667	32.98	10.20	43.18	74.00	-30.82	peak			
2		3850.000	31.03	14.27	45.30	74.00	-28.70	peak			
3	*	4882.000	41.66	7.89	49.55	74.00	-24.45	peak			

RESULT: PASS

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

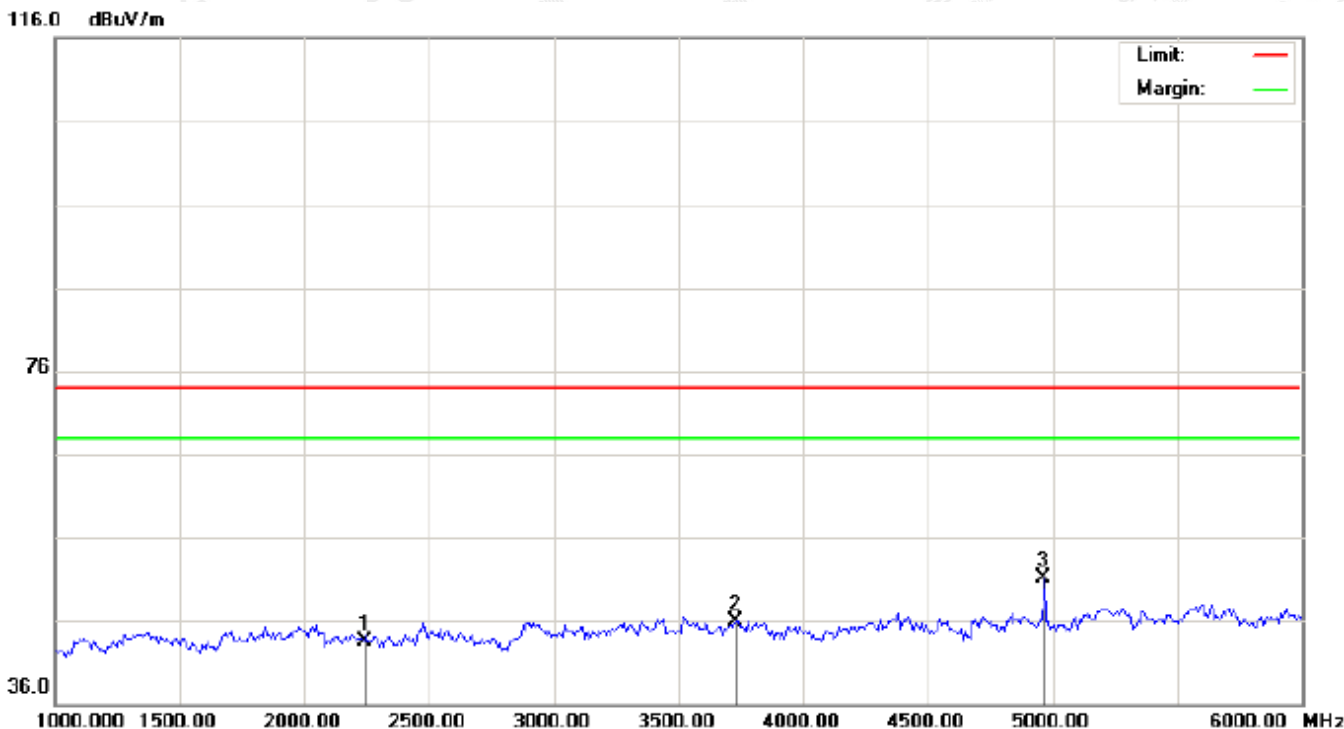


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2233.333	33.97	10.14	44.11	74.00	-29.89	peak			
2		3683.333	30.50	13.24	43.74	74.00	-30.26	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

RESULT: PASS

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

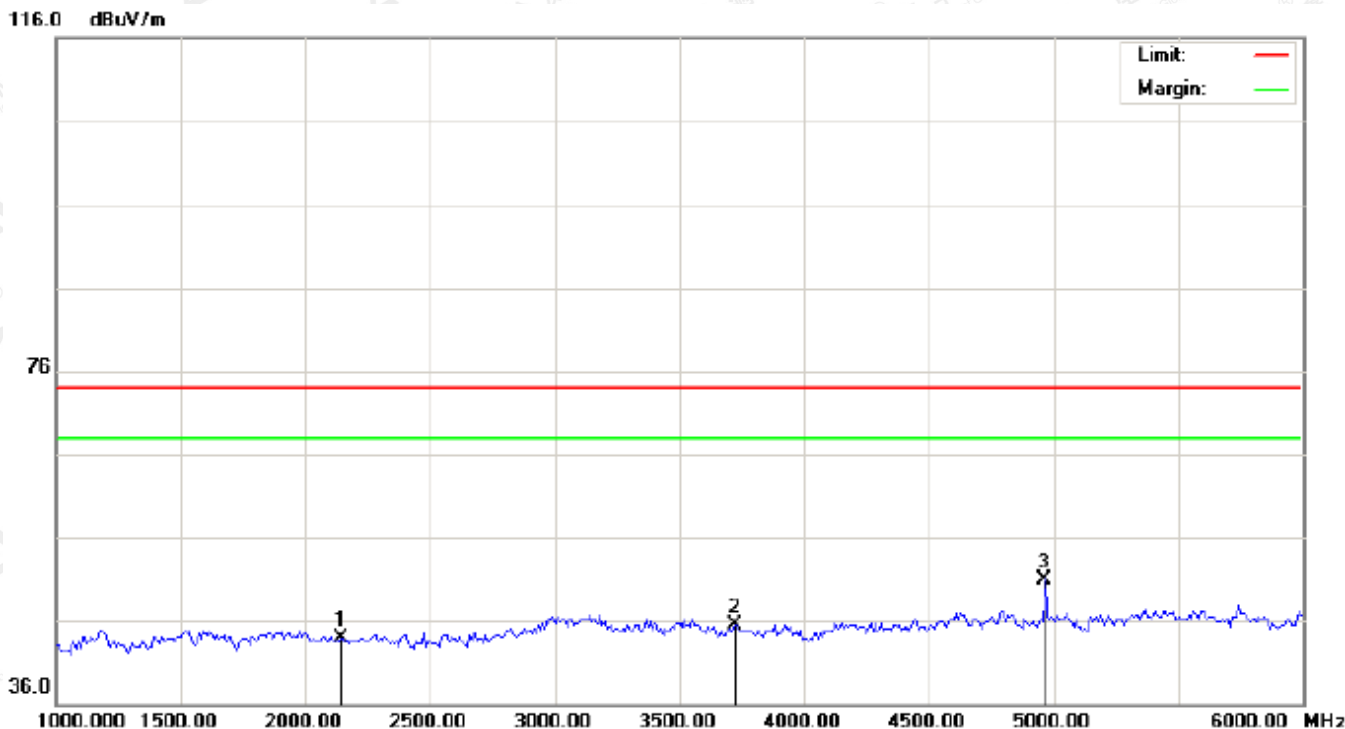


No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2241.667	33.33	10.15	43.48	74.00	-30.52	peak			
2		3733.333	32.39	13.55	45.94	74.00	-28.06	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

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		2141.667	33.93	10.04	43.97	74.00	-30.03	peak			
2		3725.000	31.92	13.50	45.42	74.00	-28.58	peak			
3	*	4960.000	42.91	8.09	51.00	74.00	-23.00	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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10. BAND EDGE EMISSION

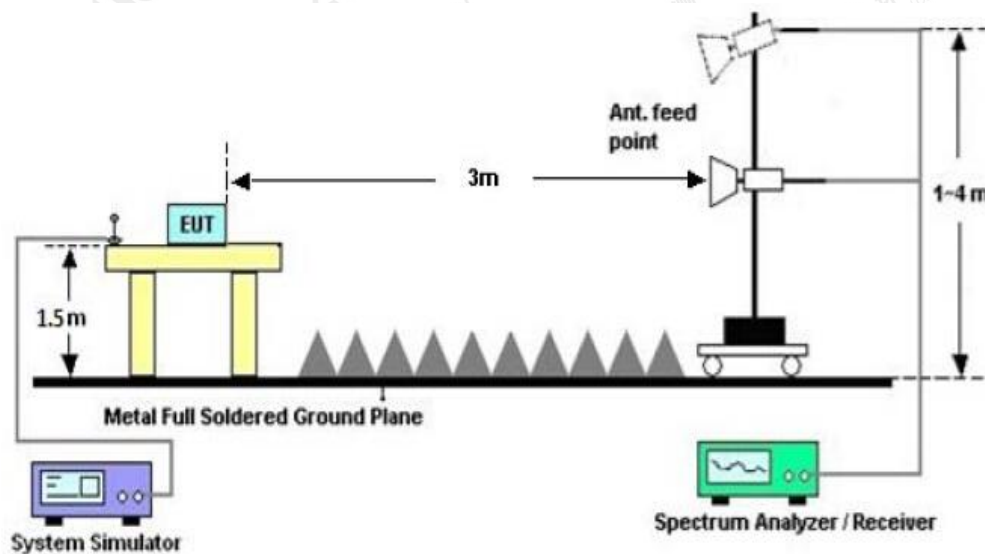
10.1. MEASUREMENT PROCEDURE

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

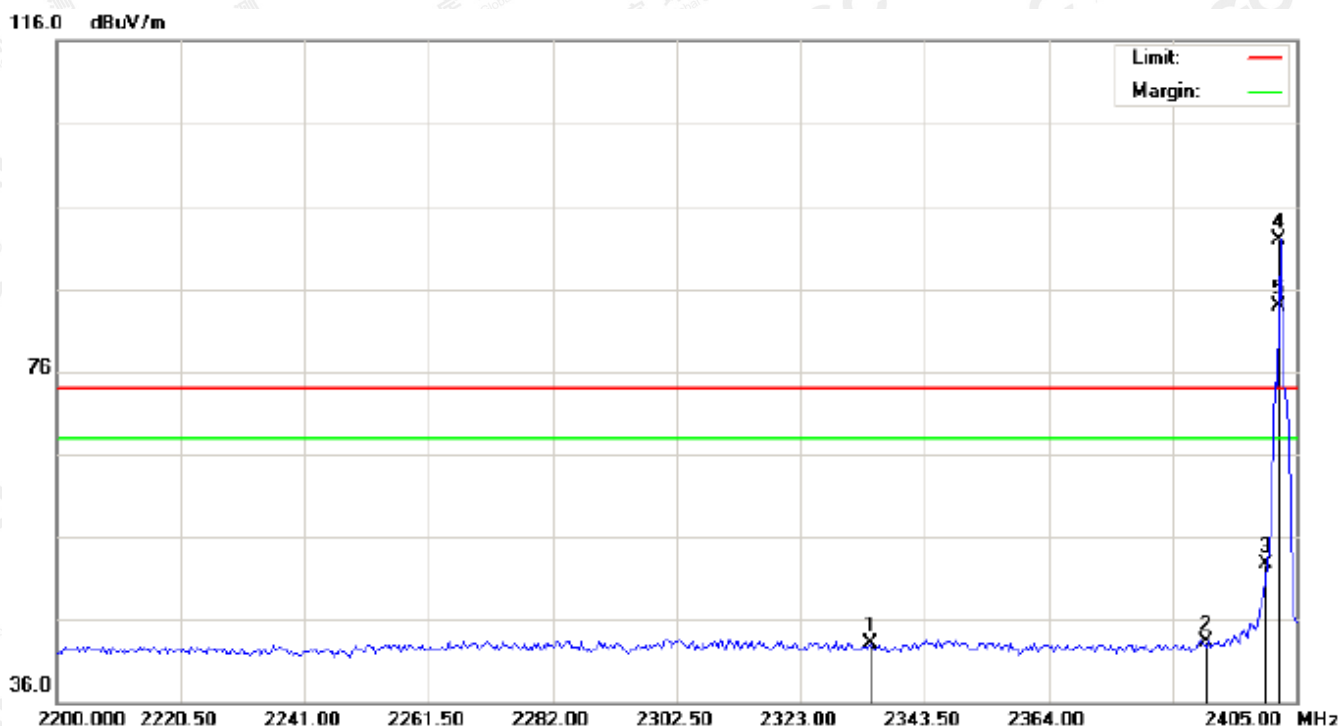
RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

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		2334.617	32.81	10.25	43.06	74.00	-30.94	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	81.61	10.32	91.93	74.00	17.93	peak			
5	X	2402.000	73.52	10.32	83.84	74.00	9.84	AVG	100	115	

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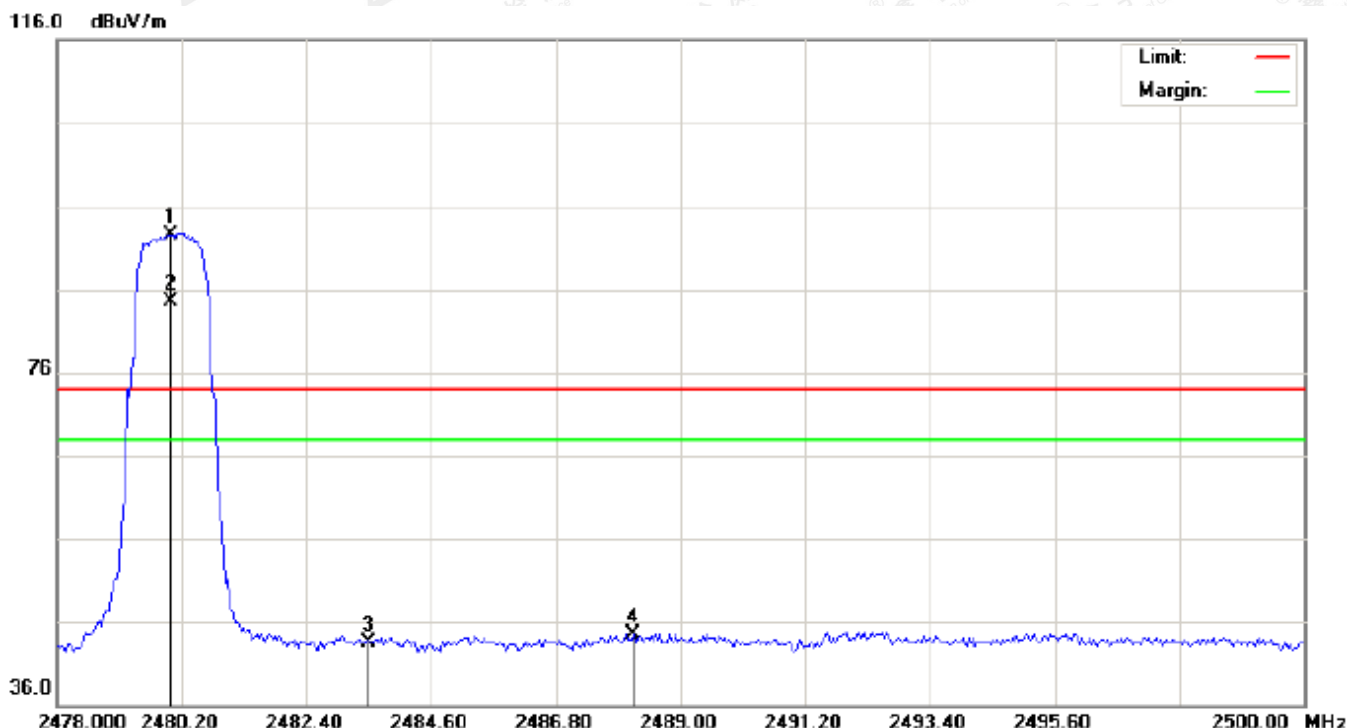
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2357.167	32.37	10.27	42.64	74.00	-31.36	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	42.56	10.32	52.88	74.00	-21.12	peak			
4	*	2402.000	81.08	10.32	91.40	74.00	17.40	peak			
5	X	2402.000	73.02	10.32	83.34	74.00	9.34	AVG	100	259	

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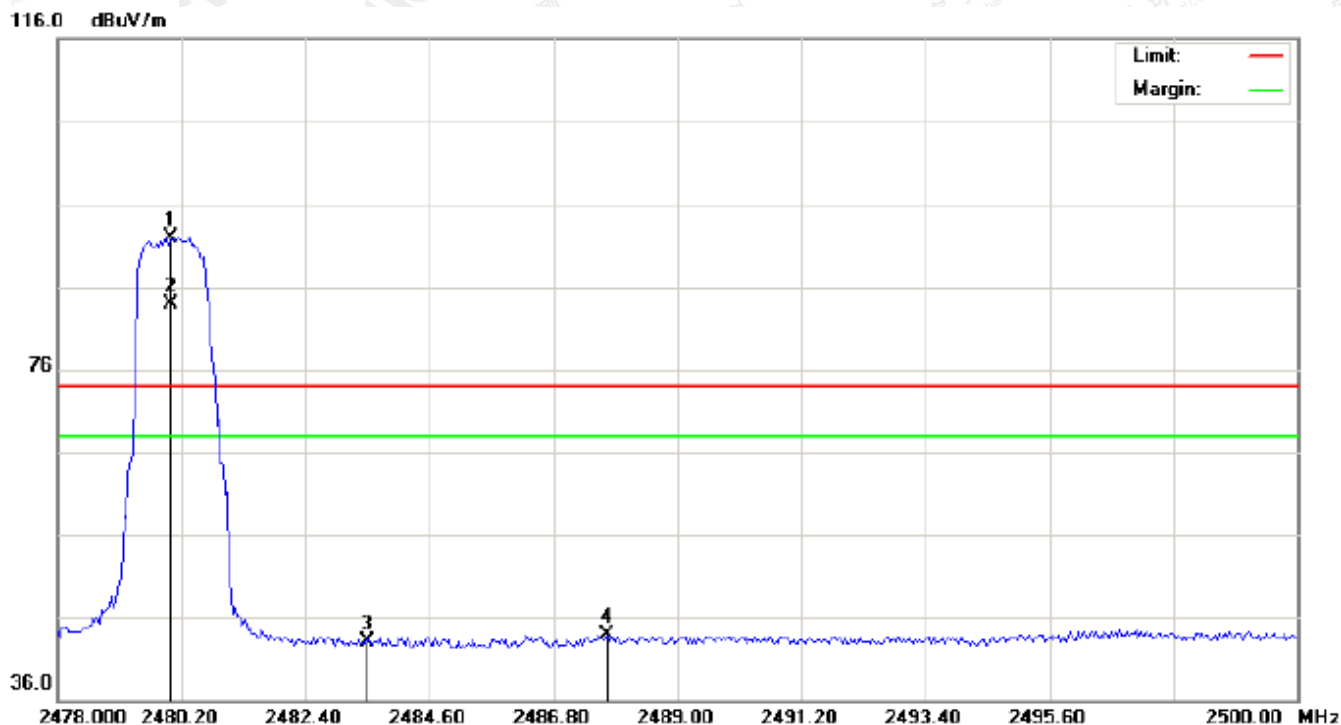
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



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	82.07	10.41	92.48	74.00	18.48	peak			
2	X	2480.000	74.01	10.41	84.42	74.00	10.42	AVG	100	112	
3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
4		2488.157	33.99	10.42	44.41	74.00	-29.59	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	81.48	10.41	91.89	74.00	17.89	peak			
2	X	2480.000	73.50	10.41	83.91	74.00	9.91	AVG	100	253	
3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4		2487.753	33.45	10.42	43.87	74.00	-30.13	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.

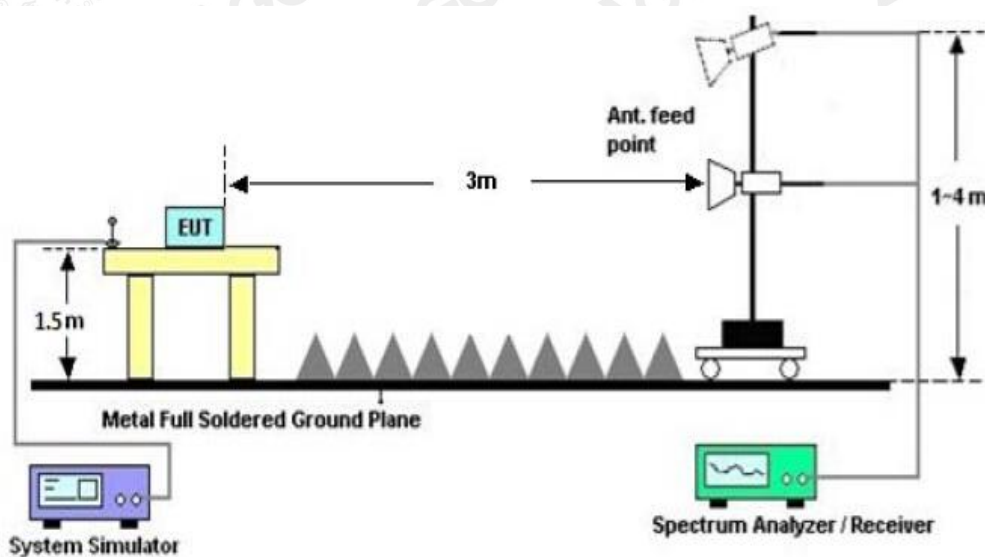
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11. 20DB BANDWIDTH

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

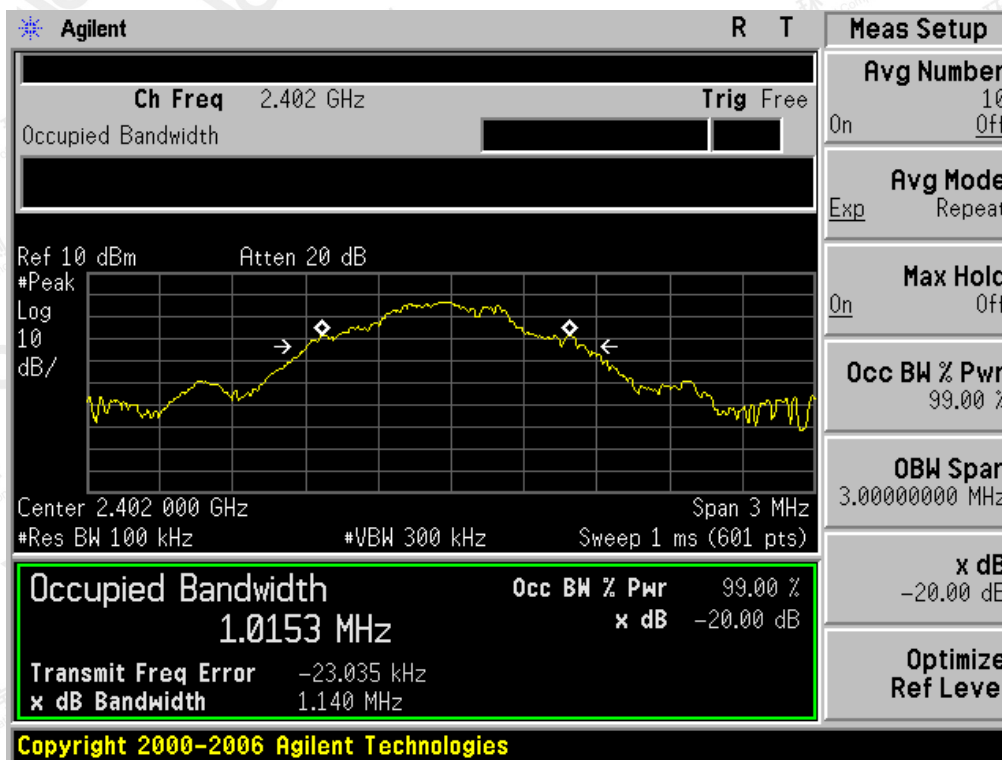


11.3. LIMITS AND MEASUREMENT RESULTS

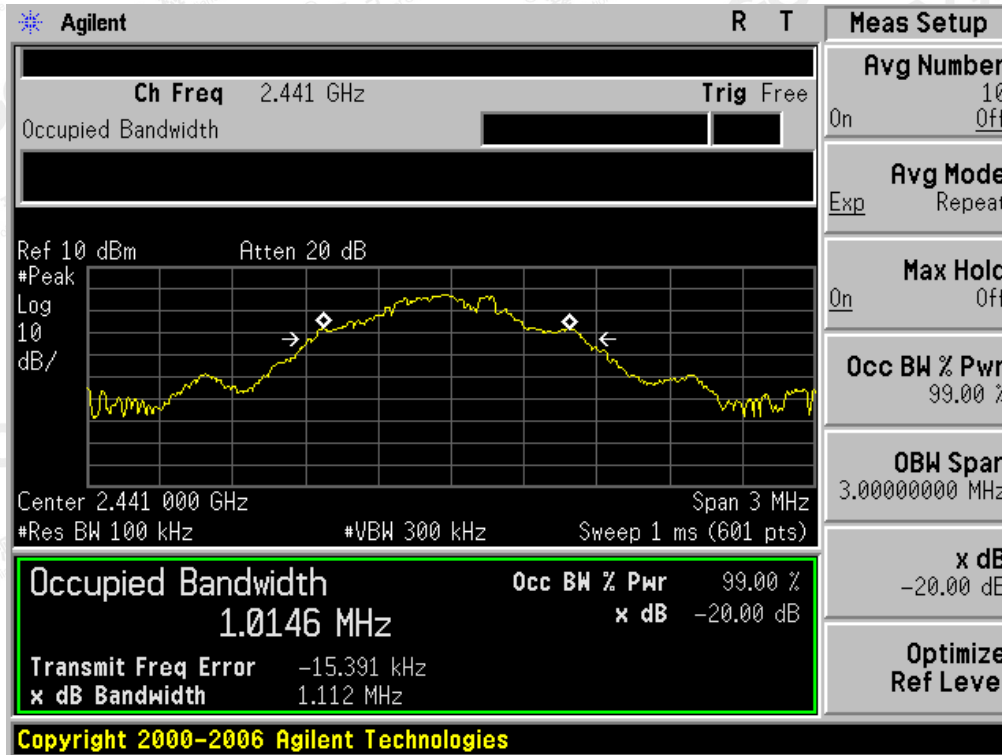
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.015	1.140	PASS
	Middle Channel	1.015	1.112	PASS
	High Channel	1.003	1.131	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

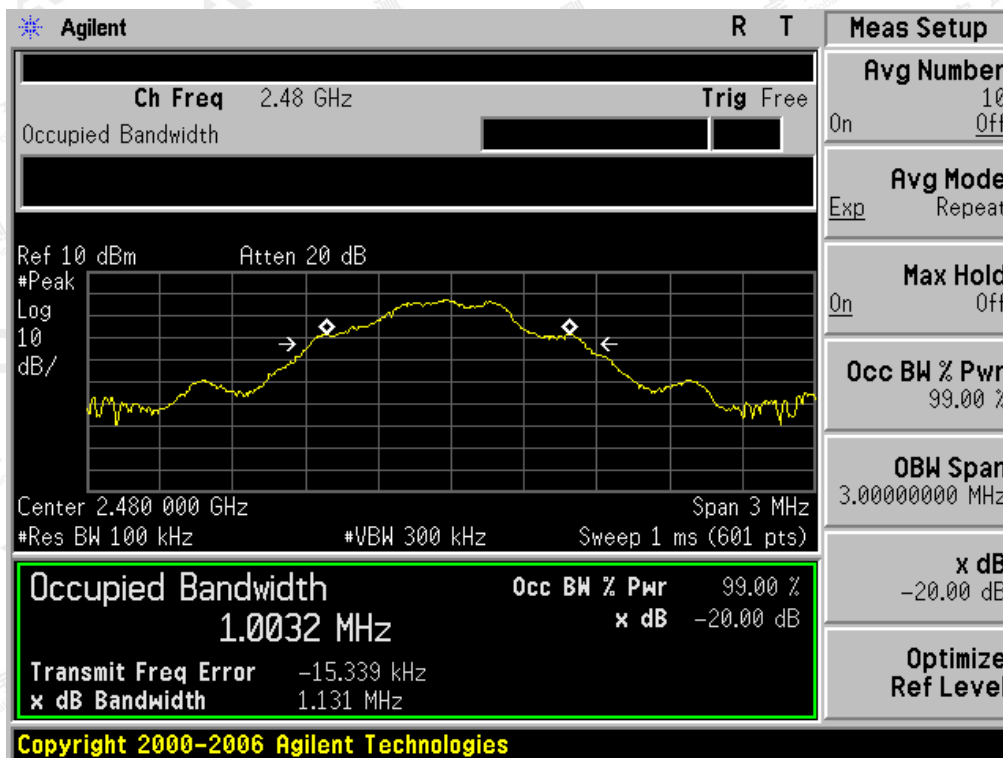


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

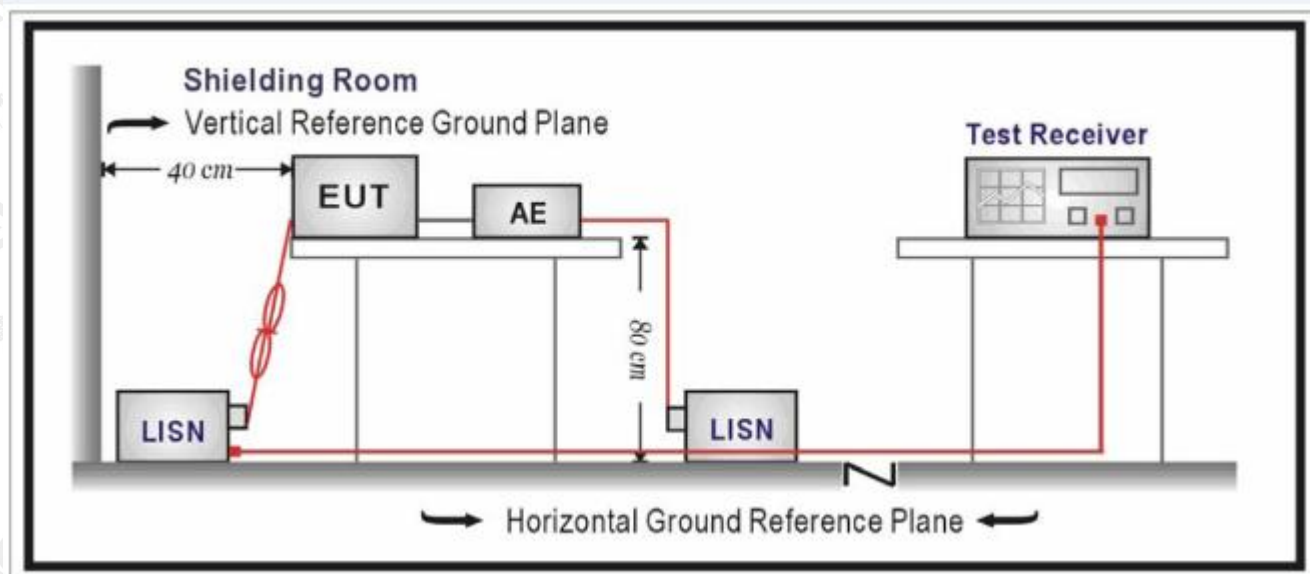
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

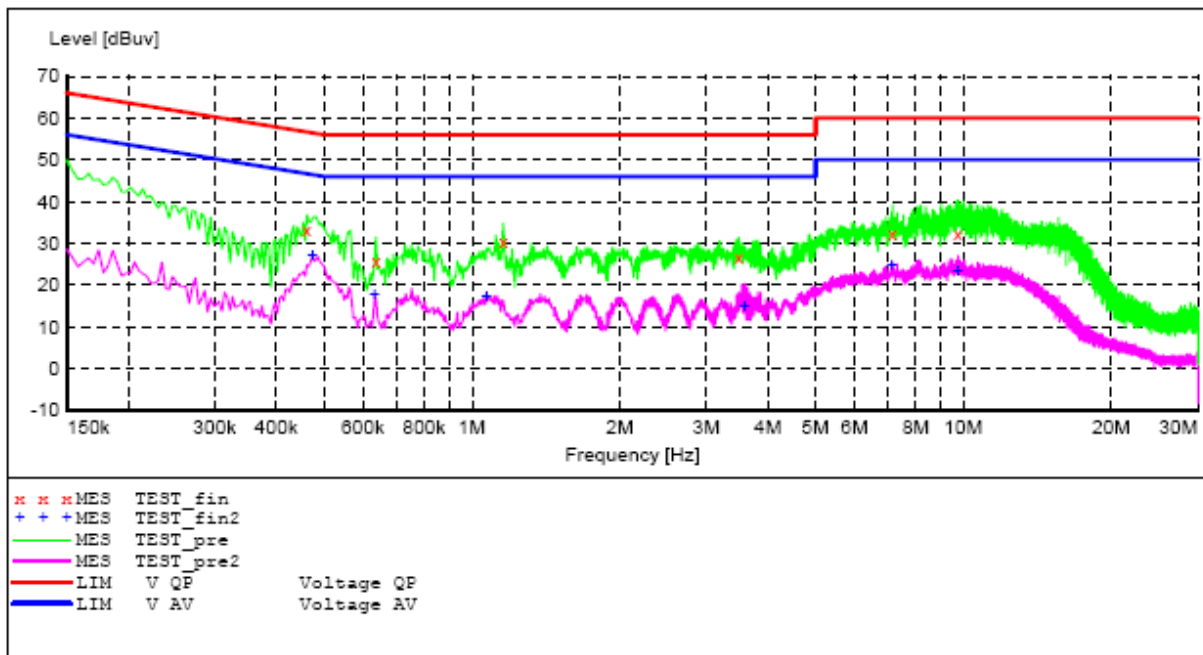
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

2018/7/20 11:36

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.462000	33.10	10.0	57	23.6	QP	L1	FLO
0.638000	25.90	9.9	56	30.1	QP	L1	FLO
1.158000	30.40	10.1	56	25.6	QP	L1	FLO
3.490000	26.50	10.0	56	29.5	QP	L1	FLO
7.170000	32.30	9.8	60	27.7	QP	L1	FLO
9.746000	32.50	10.5	60	27.5	QP	L1	FLO

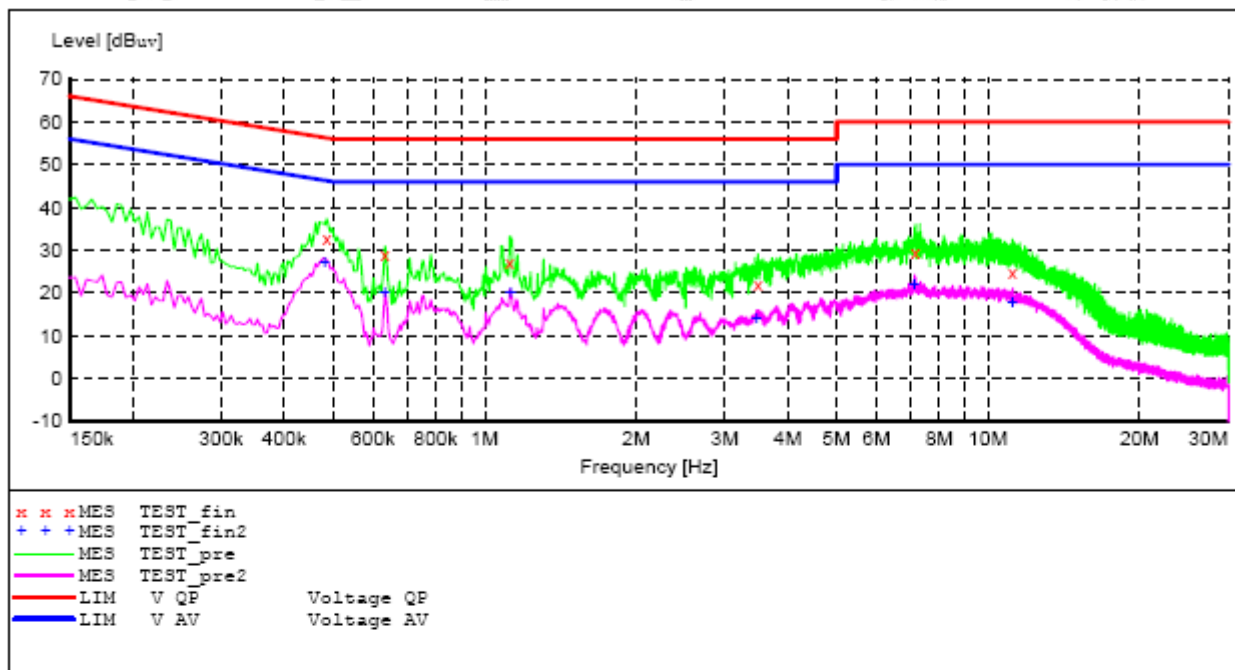
MEASUREMENT RESULT: "TEST_fin2"

2018/7/20 11:36

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.474000	27.20	10.0	46	19.2	AV	L1	FLO
0.634000	17.80	9.9	46	28.2	AV	L1	FLO
1.070000	17.10	10.1	46	28.9	AV	L1	FLO
3.590000	15.20	10.0	46	30.8	AV	L1	FLO
7.146000	24.90	9.8	50	25.1	AV	L1	FLO
9.746000	23.50	10.5	50	26.5	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

2018/7/20 11:41

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.486000	32.60	10.0	56	23.6	QP	N	FLO
0.634000	28.80	9.9	56	27.2	QP	N	FLO
1.122000	27.40	10.1	56	28.6	QP	N	FLO
3.490000	21.90	10.0	56	34.1	QP	N	FLO
7.170000	29.60	9.8	60	30.4	QP	N	FLO
11.174000	24.80	10.2	60	35.2	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

2018/7/20 11:41

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.482000	27.20	10.0	46	19.1	AV	N	FLO
0.634000	20.10	9.9	46	25.9	AV	N	FLO
1.126000	20.20	10.1	46	25.8	AV	N	FLO
3.466000	13.90	10.0	46	32.1	AV	N	FLO
7.138000	21.90	9.8	50	28.1	AV	N	FLO
11.178000	17.80	10.2	50	32.2	AV	N	FLO

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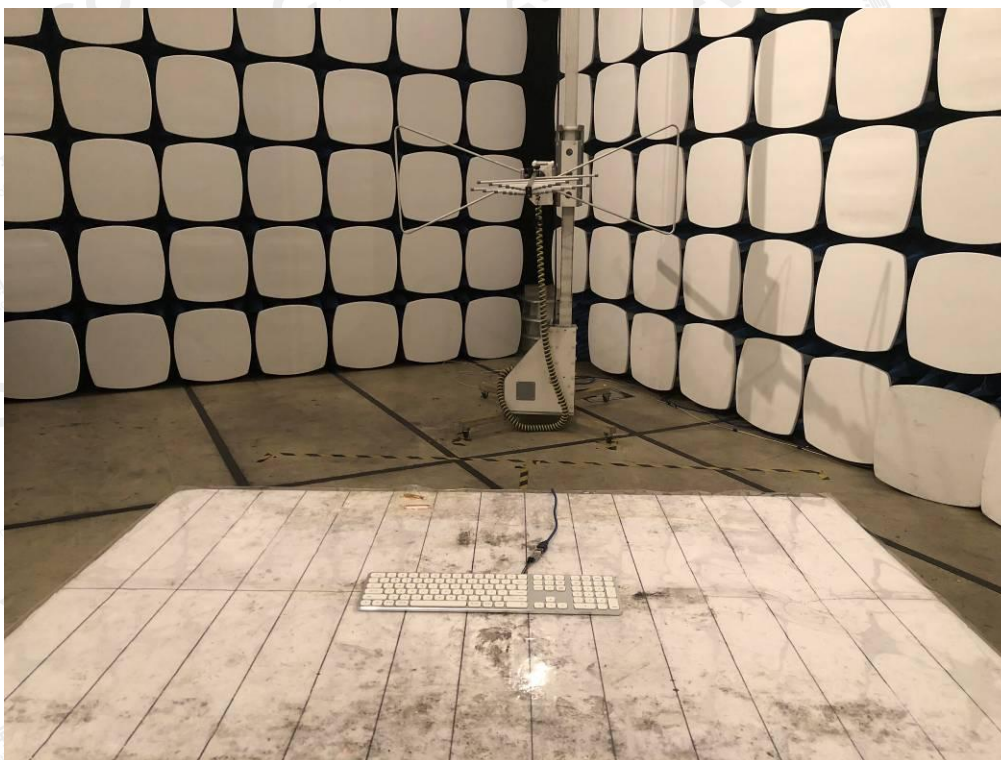
APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC LINE CONDUCTED EMISSION TEST SETUP



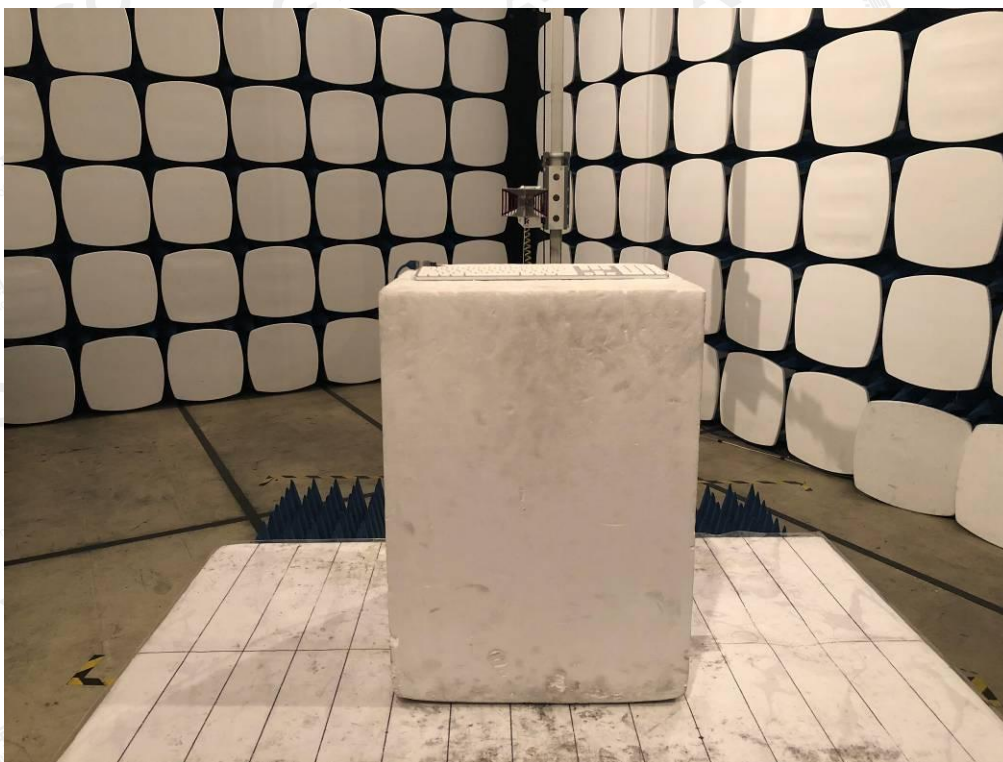
FCC RADIATED EMISSION TEST SETUP



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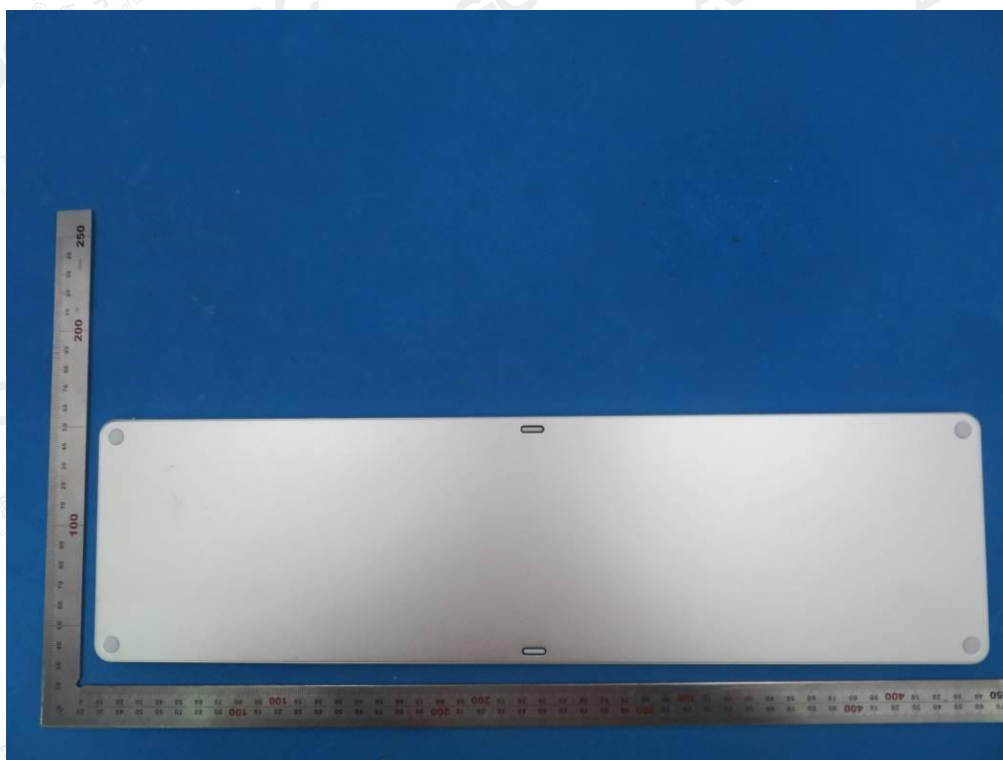


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APPENDIX B: PHOTOGRAPHS OF EUT
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT

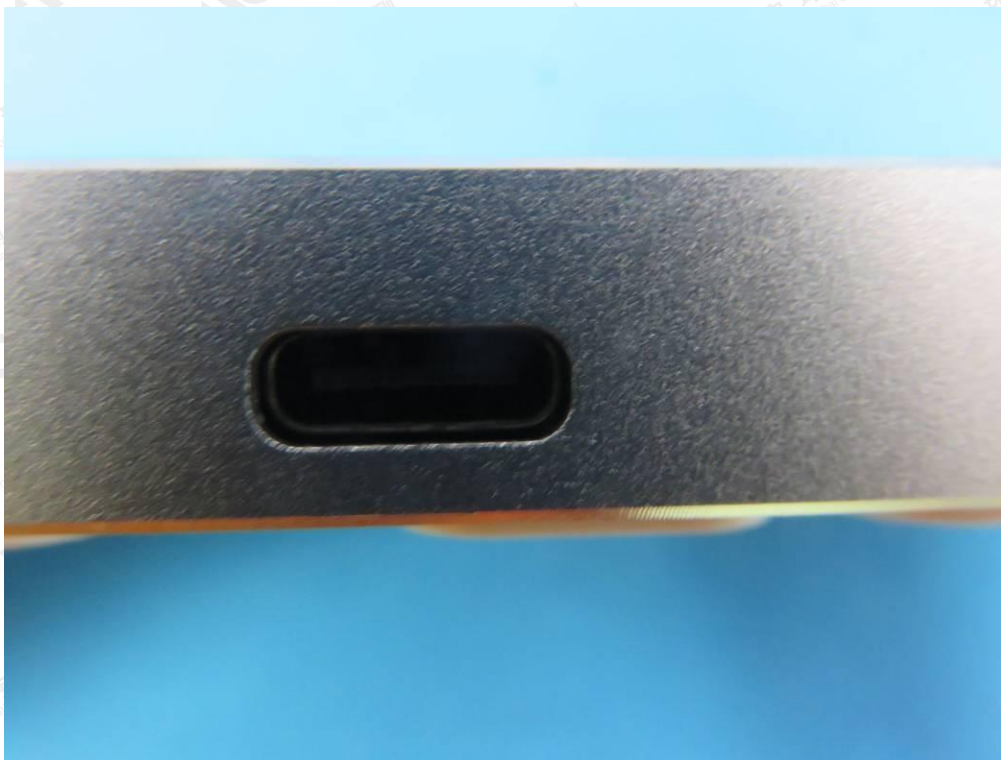


RIGHT VIEW OF EUT

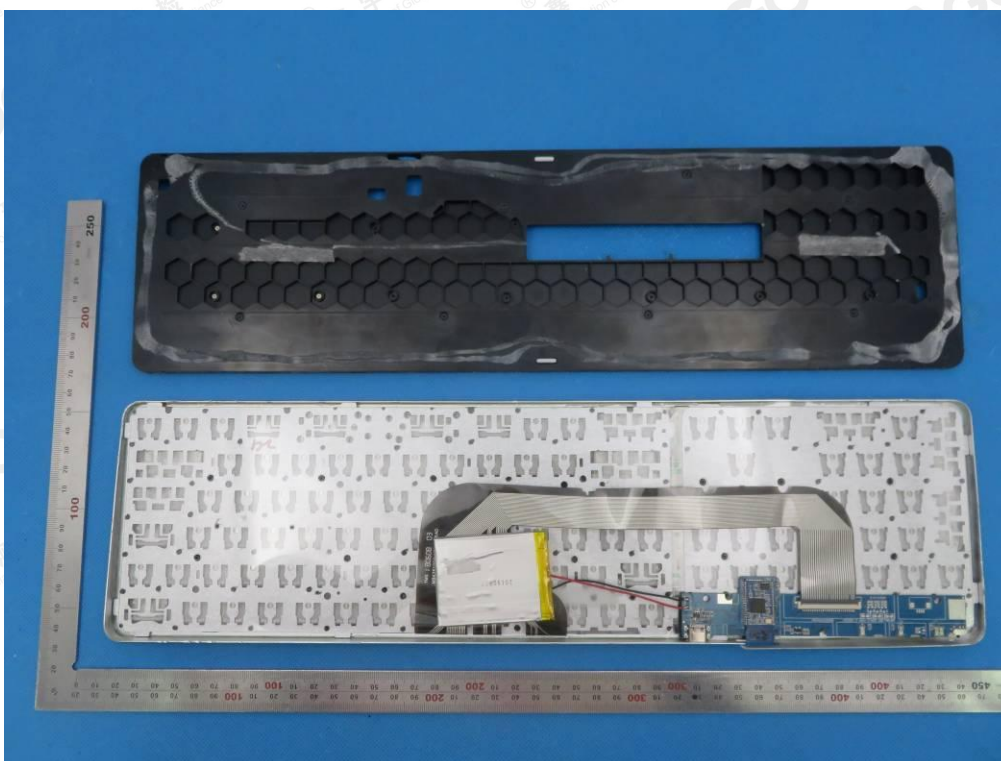


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VIEW OF EUT (PORT)



OPEN VIEW OF EUT

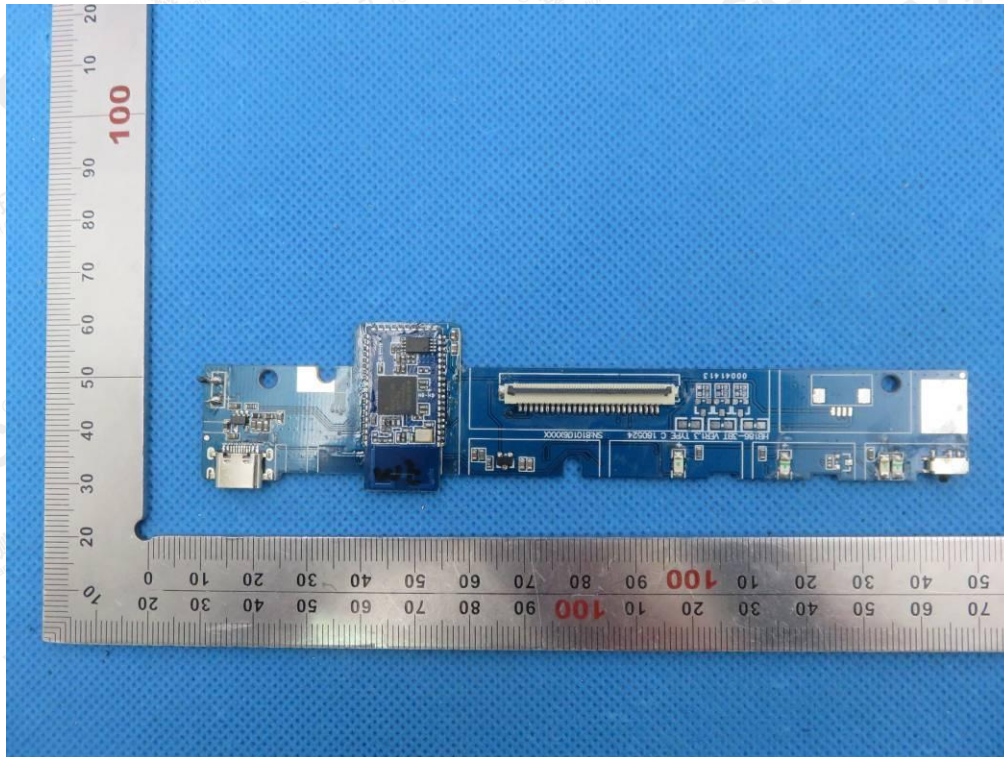


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VIEW OF BATTERY

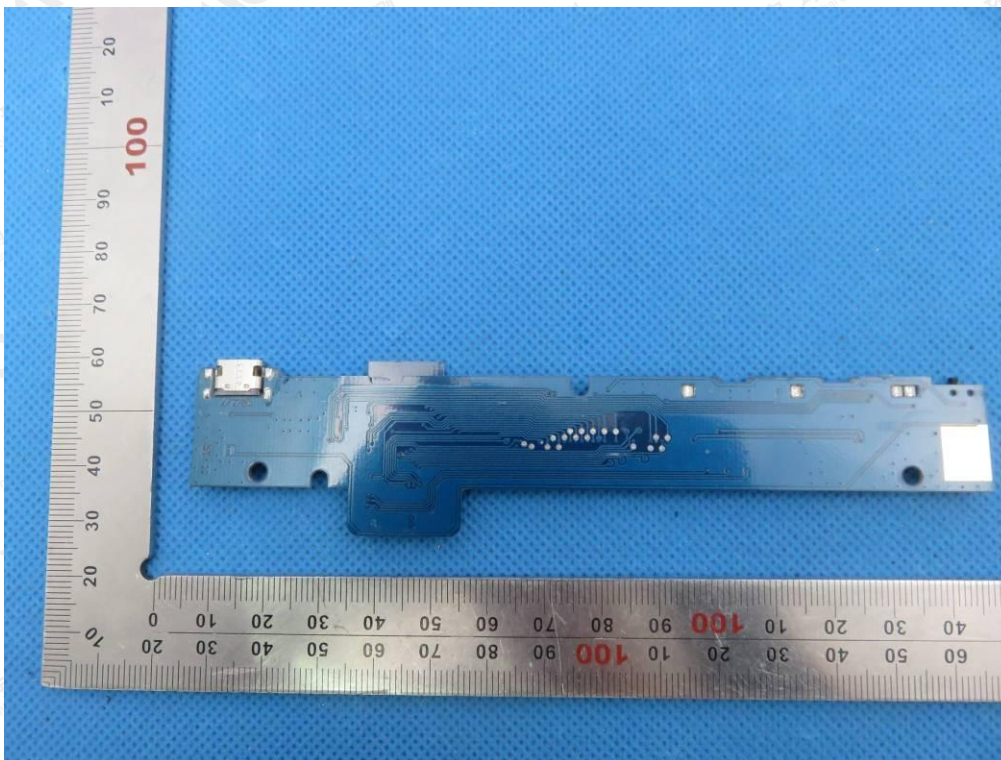


INTERNAL VIEW OF EUT-1

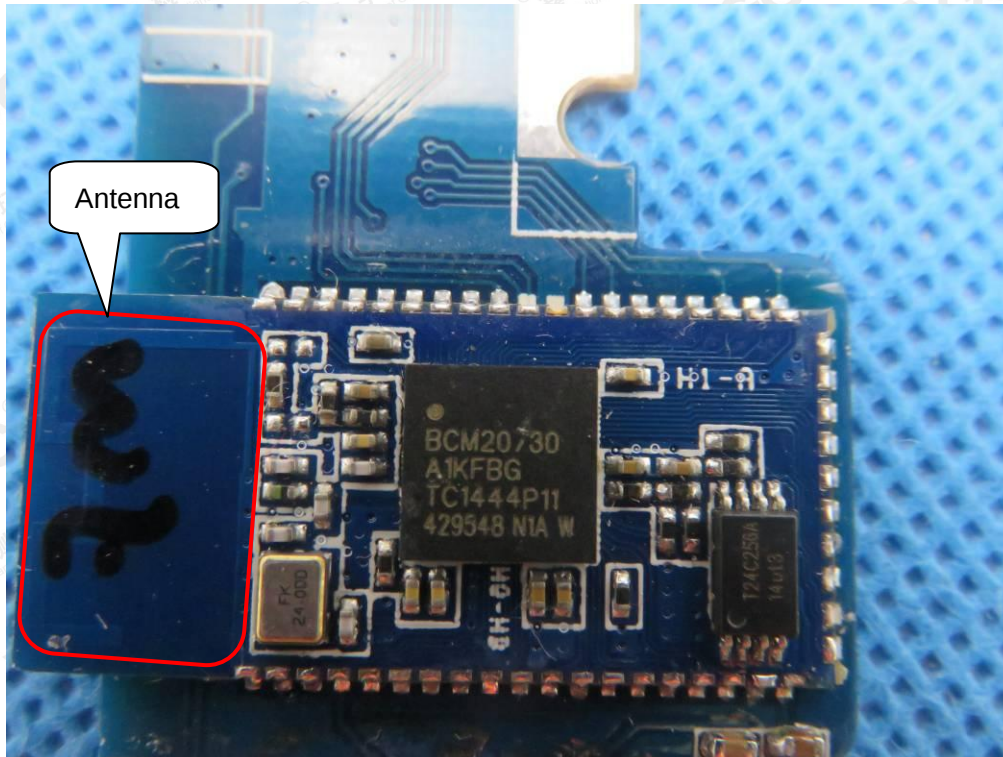


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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3

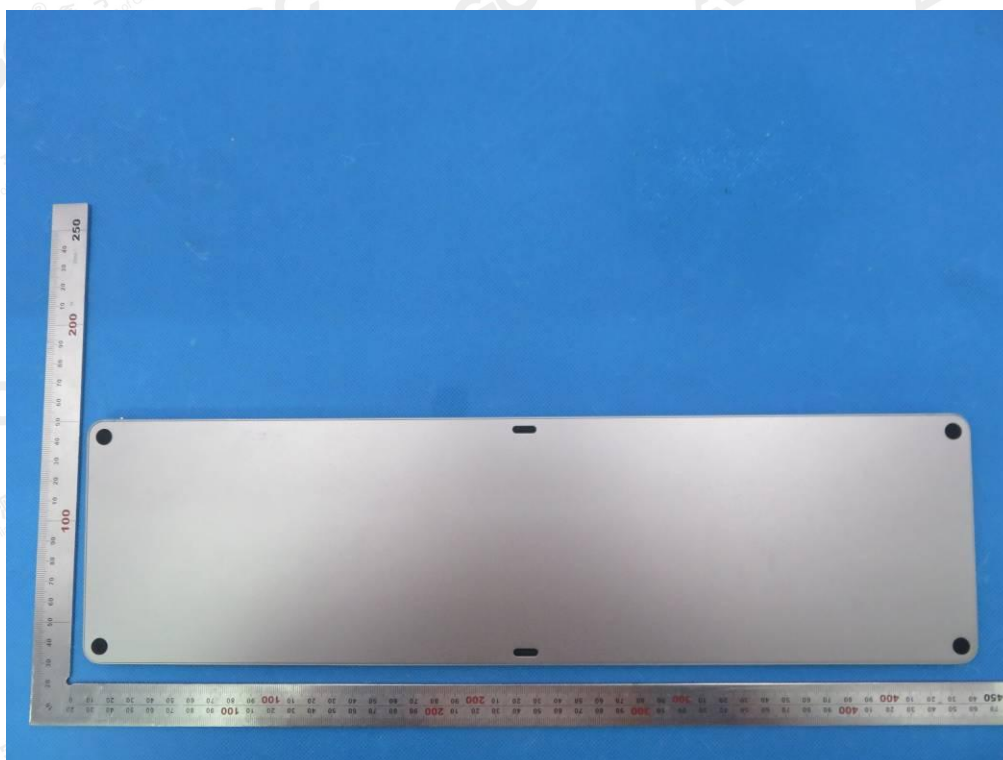


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SERIES MOEL-ST-AMBKM
TOP VIEW OF EUT



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)



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

-----END OF REPORT-----

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