

# FCC Test Report

Report No.: AGC00099180301FE03

**FCC ID** : XBE-DLICBLE  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : DLICBLE  
**BRAND NAME** : Linak  
**MODEL NAME** : DLICBLE  
**CLIENT** : Linak A/S  
**DATE OF ISSUE** : Jun. 21, 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	/	Jun. 21, 2018	Valid	Initial release

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**1. VERIFICATION OF CONFORMITY**

<b>Applicant</b>	Linak A/S
<b>Address</b>	Smedevaenget 8, Guderup Desklene, 6430 Nordborg, Denmark
<b>Manufacturer</b>	Linak A/S
<b>Address</b>	Smedevaenget 8, Guderup Desklene, 6430 Nordborg, Denmark
<b>Product Designation</b>	DLICBLE
<b>Brand Name</b>	Linak
<b>Test Model</b>	DLICBLE
<b>Date of test</b>	Mar. 06, 2018 to Mar. 09, 2018
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	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  
 Henry Zhang(Zhang Zhuorui) Mar. 09, 2018

Reviewed By Cool Cheng  
 Cool Cheng(Cheng Mengguo) Jun. 21, 2018

Approved By Forrest Lei  
 Forrest Lei(Lei Yonggang)  
 Authorized Officer Jun. 21, 2018

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	3.16dBm(Max EIRP Power=Max radiation field-95.2)
<b>Bluetooth Version</b>	V4.0
<b>Modulation</b>	BR <input type="checkbox"/> GFSK, EDR <input type="checkbox"/> π/4-DQPSK, <input type="checkbox"/> 8DPSK BLE <input checked="" type="checkbox"/> GFSK
<b>Number of channels</b>	40 for BLE
<b>Hardware Version</b>	10907726-B (Master)
<b>Software Version</b>	SW03002012V1-12
<b>Antenna Designation</b>	PCB Antenna
<b>Antenna Gain</b>	3.3dBi
<b>Power Supply (by adapter 1)</b>	Input:100-240V 50/60Hz 1.6A Output: 29V 2A Model No: ASW0552-29020002B
<b>Power Supply (by adapter 2)</b>	Input:120V 60Hz 1.2A Output: 24V 2A Model No: ASW0551-24020002A
Note: The EUT have two adapters, both have been tested and only the test data of adapter 1 recorded in this report.	

### 2.2. TABLE OF CARRIER FREQUENCIES

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402MHz
	1	2404MHz
	:	:
	38	2478 MHz
	39	2480 MHz

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### 3. MEASUREMENT UNCERTAINTY

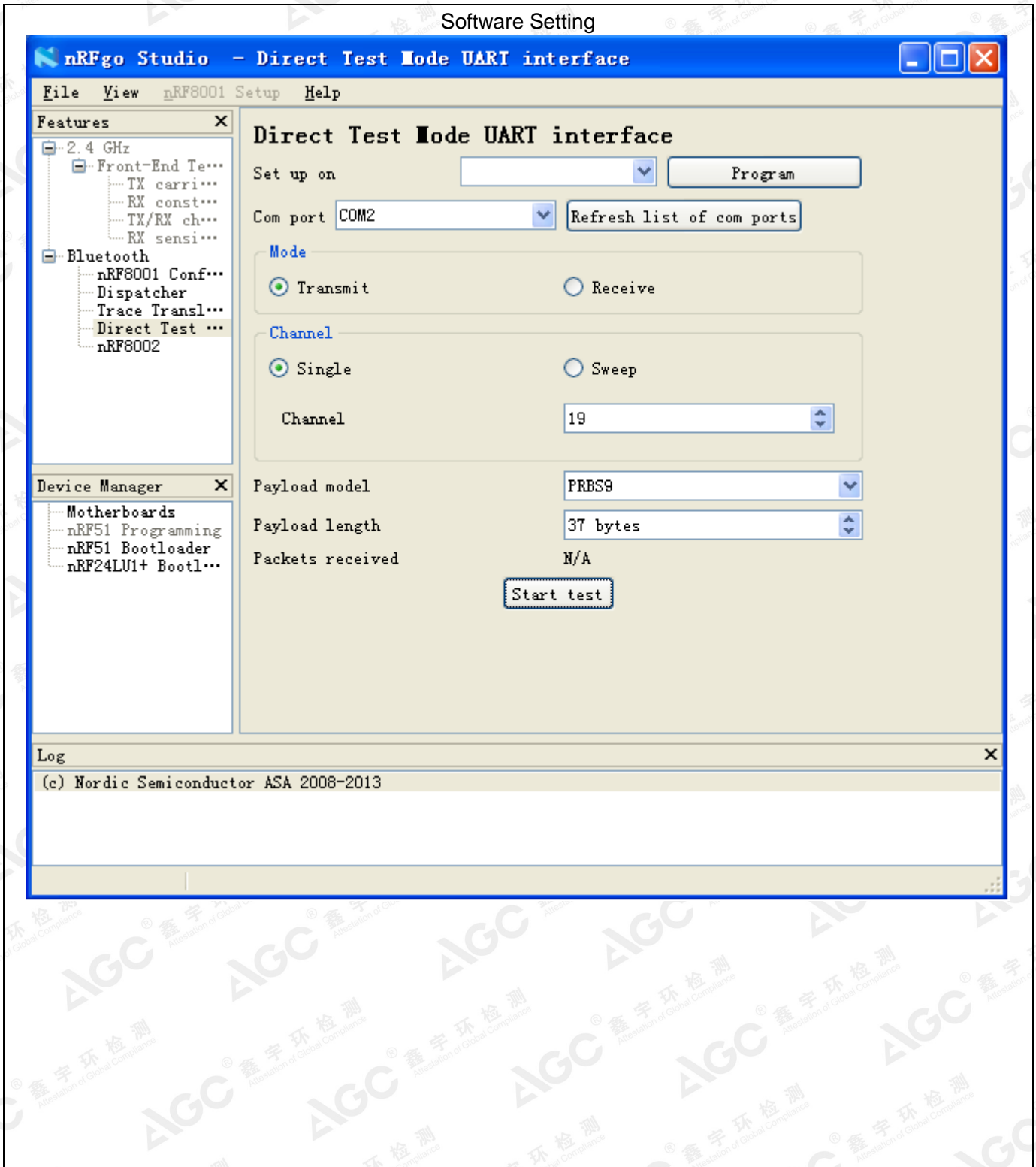
The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- 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	BT Link
<p>Note: Transmitting duty cycle &gt;98%, The average correction factor is about -0.18</p>	

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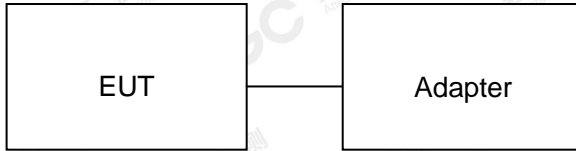


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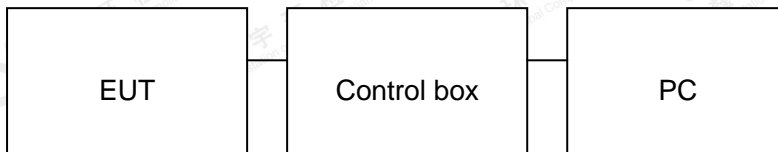
## 5. SYSTEM TEST CONFIGURATION

### 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	DLICBLE	Linak	DLICBLE	EUT
2	PC	APPLE	A1465	A.E
3	Control box	SERIAL	N/A	A.E
4	Adapter 1	Linak	ASW0552-29020002B	Accessory
5	Adapter 2	Linak	ASW0551-24020002A	Accessory
6	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	Compliant
§15.215	Bandwidth	Compliant

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**6. TEST FACILITY**

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	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
<b>NVLAP Lab Code</b>	600153-0
<b>Designation Number</b>	CN5028
<b>Test Firm Registration Number</b>	682566
<b>Description</b>	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, 2018	Feb. 28, 2020
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	--	Jun.20, 2017	Jun.19, 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	
		$\mu$ V/m	dB( $\mu$ 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( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level  $\text{dB}\mu$  V = 20 log Emission level  $\mu$  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 12mm 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 12mm 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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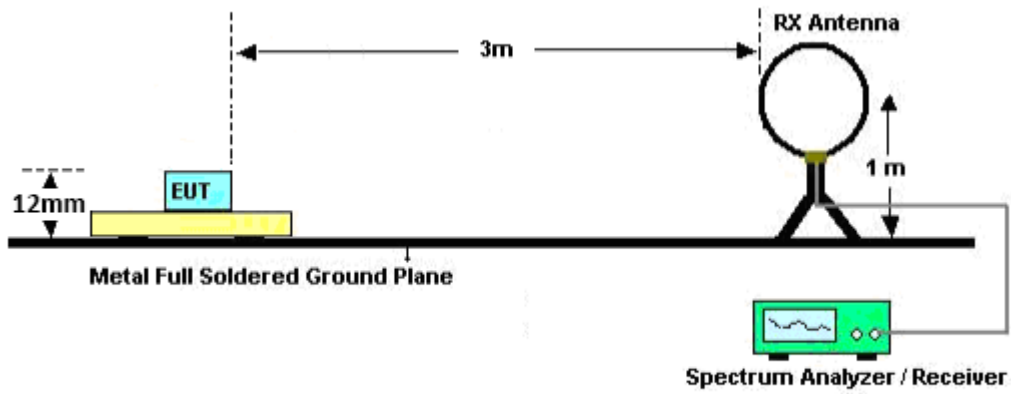
The following table is the setting of spectrum analyzer and receiver.

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

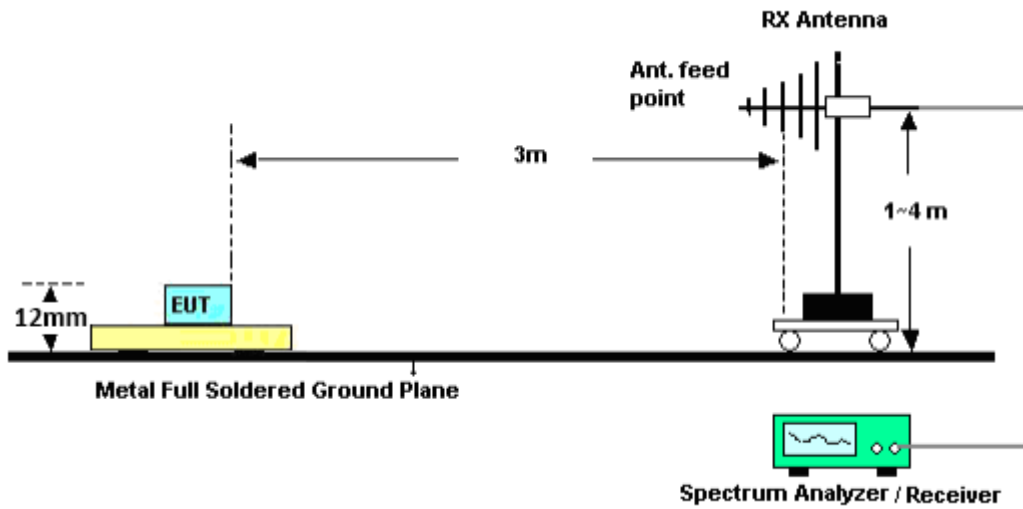
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**9.3. TEST SETUP**

**Radiated Emission Test-Setup Frequency Below 30MHz**

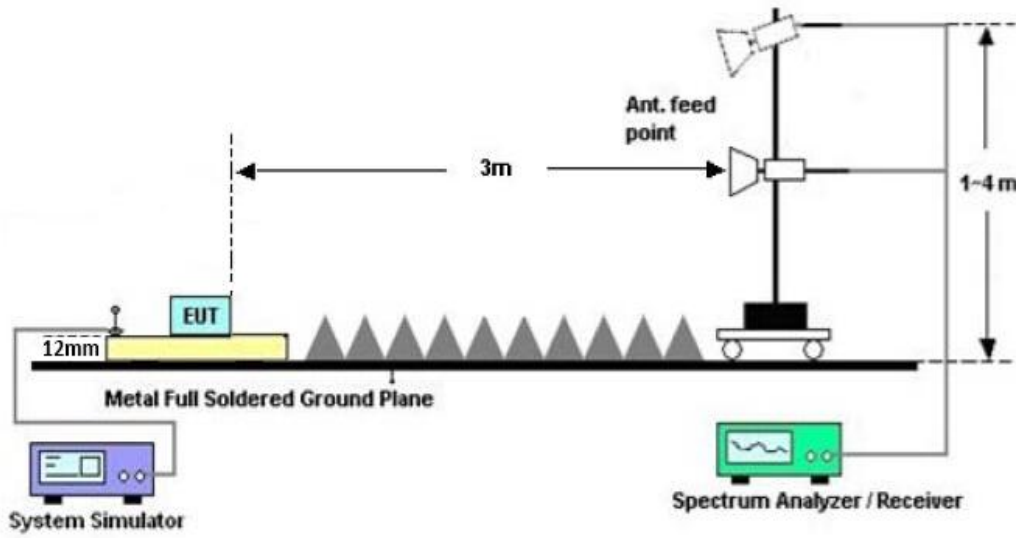


**RADIATED EMISSION TEST SETUP 30MHz-1000MHz**



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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**

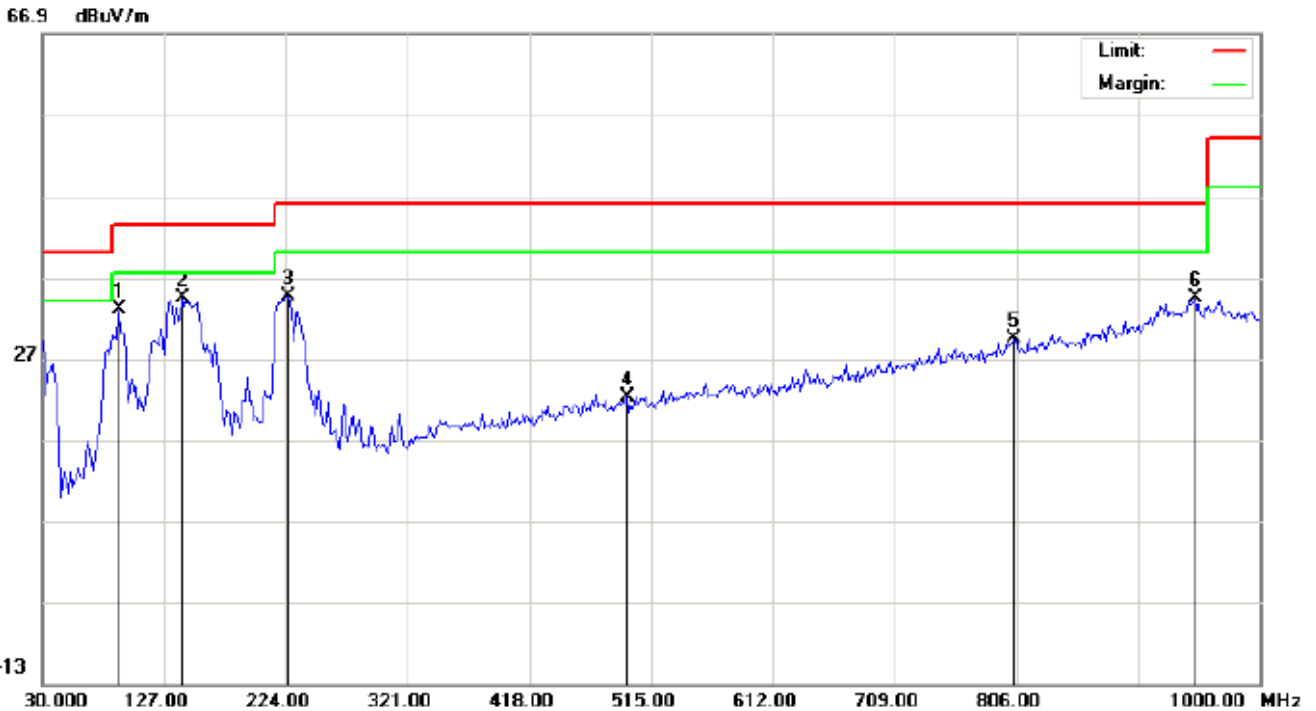


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		101.1333	21.29	10.22	31.51	43.50	-11.99	peak			
2		139.9333	15.21	15.17	30.38	43.50	-13.12	peak			
3		198.1331	11.75	11.91	23.66	43.50	-19.84	peak			
4		396.9832	6.07	19.05	25.12	46.00	-20.88	peak			
5		799.5333	4.49	27.31	31.80	46.00	-14.20	peak			
6	*	951.5000	4.15	29.99	34.14	46.00	-11.86	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	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		91.4333	28.81	4.16	32.97	43.50	-10.53	peak			
2	*	141.5500	19.27	15.21	34.48	43.50	-9.02	peak			
3		225.6167	23.18	11.51	34.69	46.00	-11.31	peak			
4		495.6000	1.08	21.08	22.16	46.00	-23.84	peak			
5		804.3832	2.12	27.32	29.44	46.00	-16.56	peak			
6		948.2667	4.53	29.95	34.48	46.00	-11.52	peak			

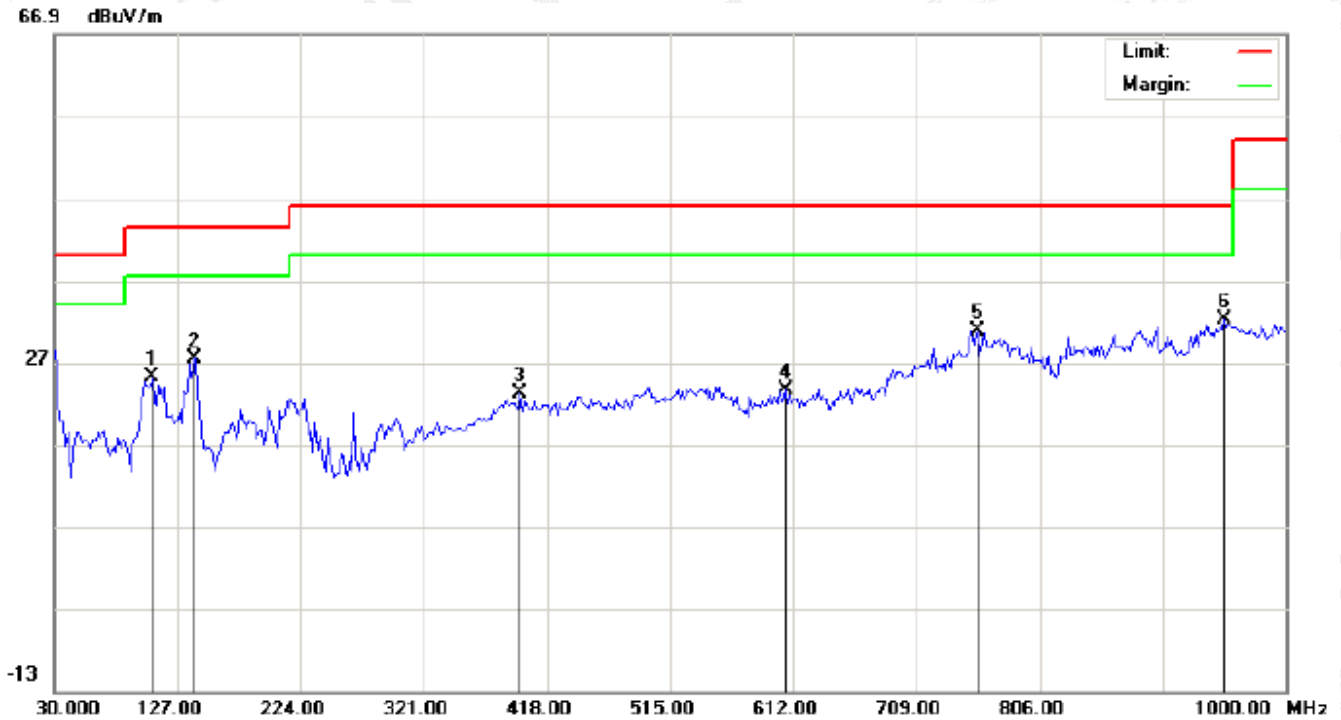
**RESULT: PASS**

**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

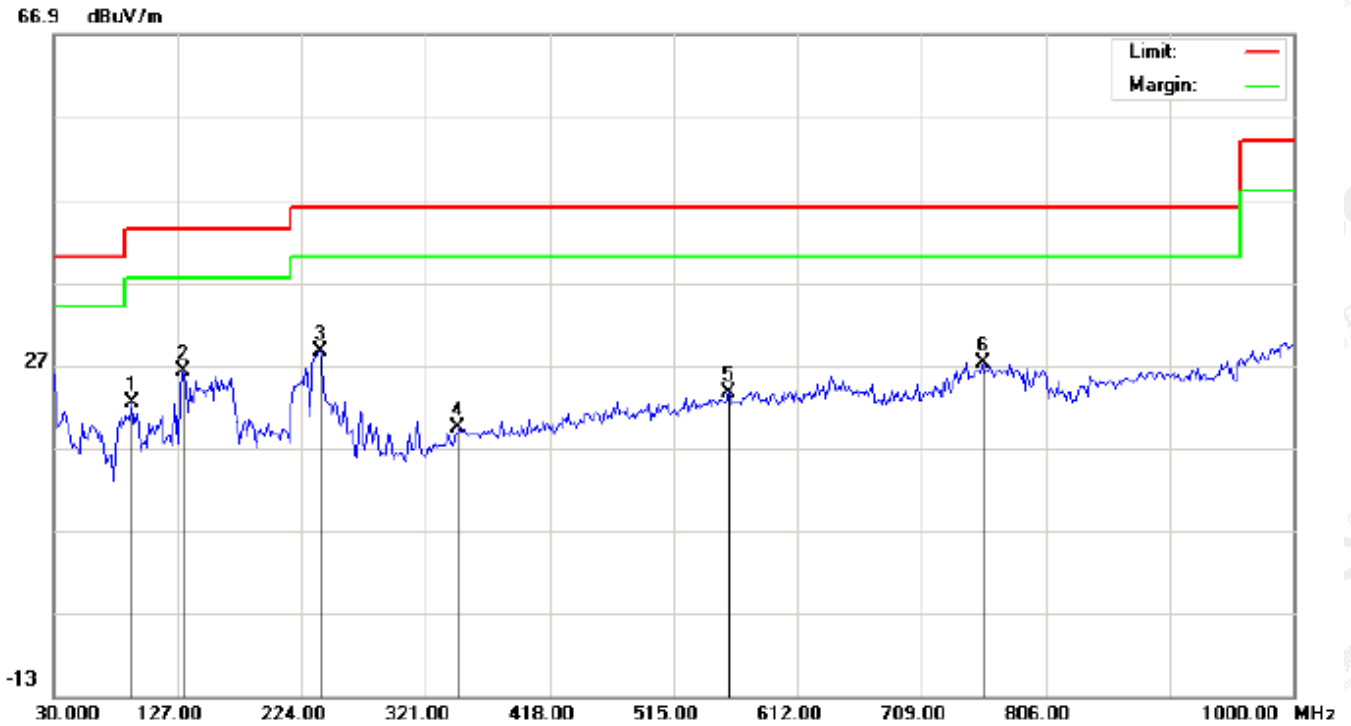


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		107.5999	16.41	8.72	25.13	43.50	-18.37	peak			
2		139.9333	12.21	15.17	27.38	43.50	-16.12	peak			
3		396.9832	4.07	19.05	23.12	46.00	-22.88	peak			
4		605.5333	-0.09	23.74	23.65	46.00	-22.35	peak			
5		757.5000	4.02	26.73	30.75	46.00	-15.25	peak			
6	*	951.5000	2.15	29.99	32.14	46.00	-13.86	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		91.4333	18.31	4.16	22.47	43.50	-21.03	peak			
2	*	131.8499	14.34	11.80	26.14	43.50	-17.36	peak			
3		238.5500	15.84	12.78	28.62	46.00	-17.38	peak			
4		346.8666	0.83	18.53	19.36	46.00	-26.64	peak			
5		558.6499	1.18	22.52	23.70	46.00	-22.30	peak			
6		757.5000	0.43	26.73	27.16	46.00	-18.84	peak			

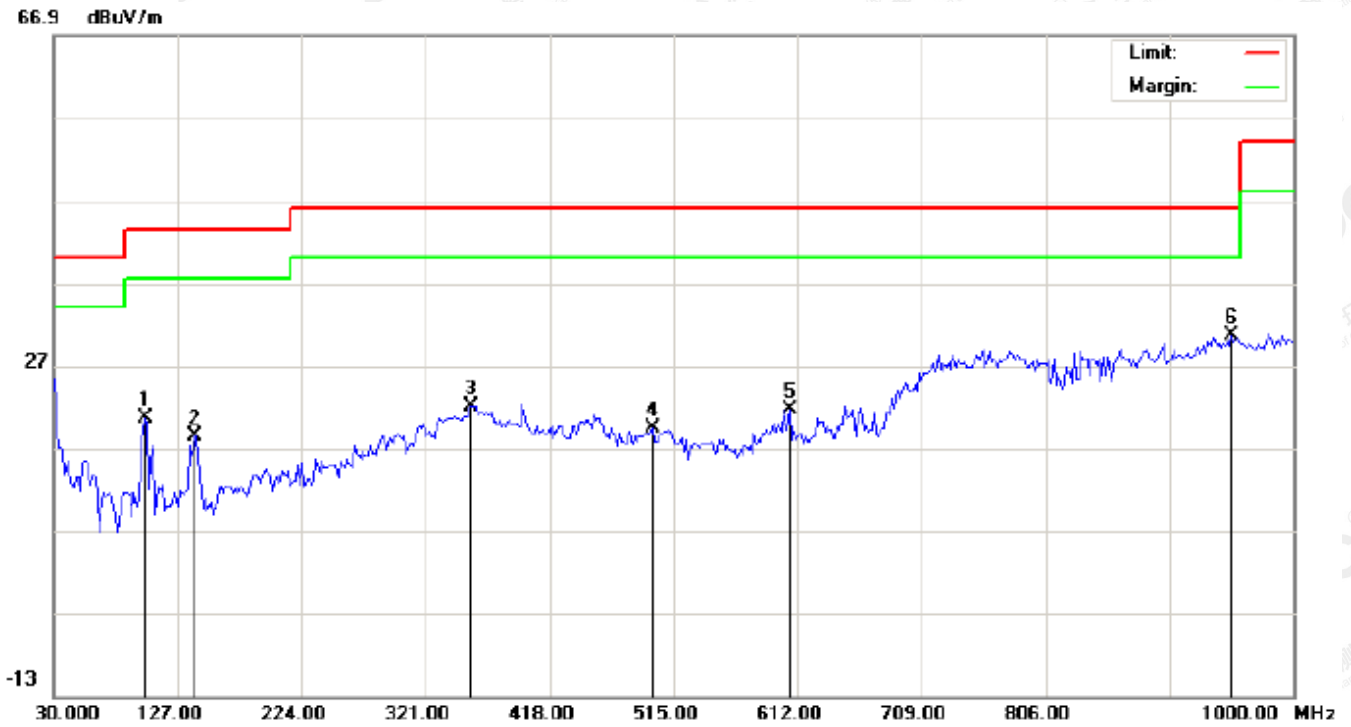
**RESULT: PASS**

**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

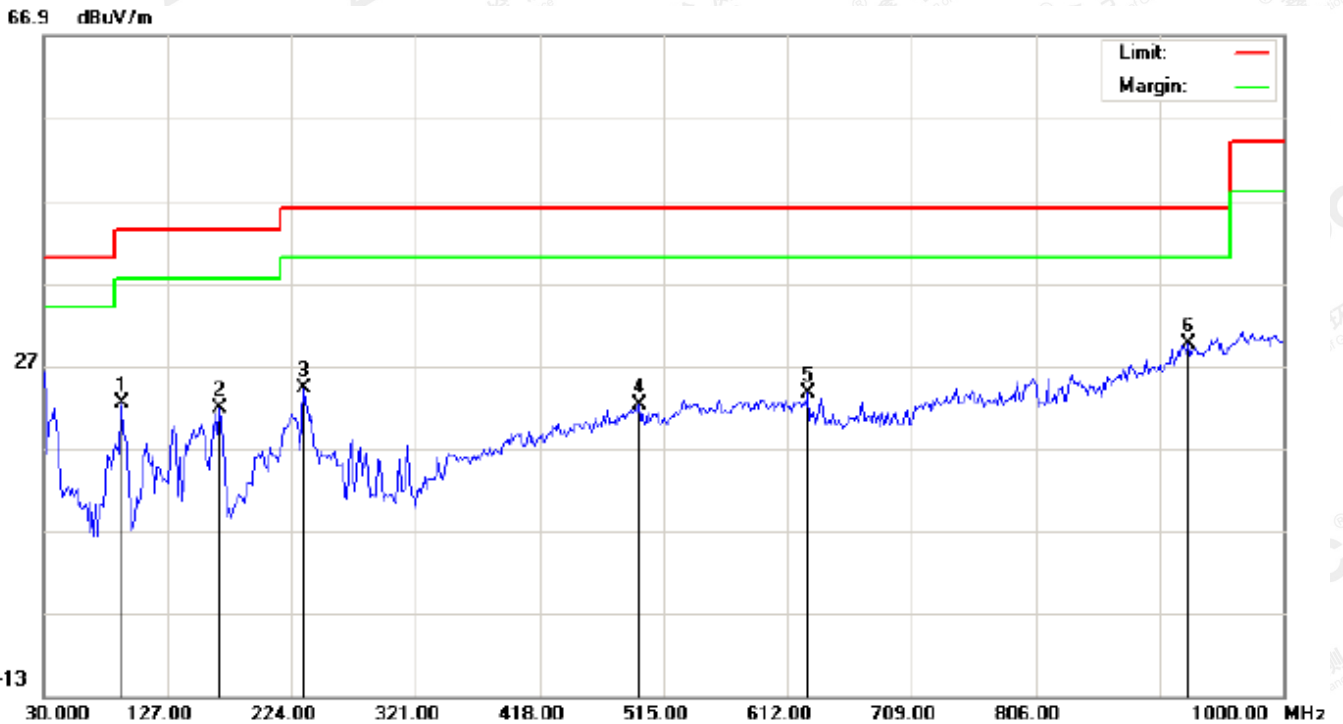


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		101.1333	10.29	10.22	20.51	43.50	-22.99	peak			
2		139.9333	3.21	15.17	18.38	43.50	-25.12	peak			
3		356.5667	3.16	18.78	21.94	46.00	-24.06	peak			
4		498.8333	-1.79	21.12	19.33	46.00	-26.67	peak			
5		605.5333	-2.09	23.74	21.65	46.00	-24.35	peak			
6	*	951.5000	0.65	29.99	30.64	46.00	-15.36	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		91.4333	18.31	4.16	22.47	43.50	-21.03	peak			
2		167.4165	6.90	14.86	21.76	43.50	-21.74	peak			
3		233.6999	11.92	12.30	24.22	46.00	-21.78	peak			
4		495.6000	1.08	21.08	22.16	46.00	-23.84	peak			
5		628.1666	0.30	23.36	23.66	46.00	-22.34	peak			
6	*	925.6332	0.37	29.32	29.69	46.00	-16.31	peak			

**RESULT: PASS**

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

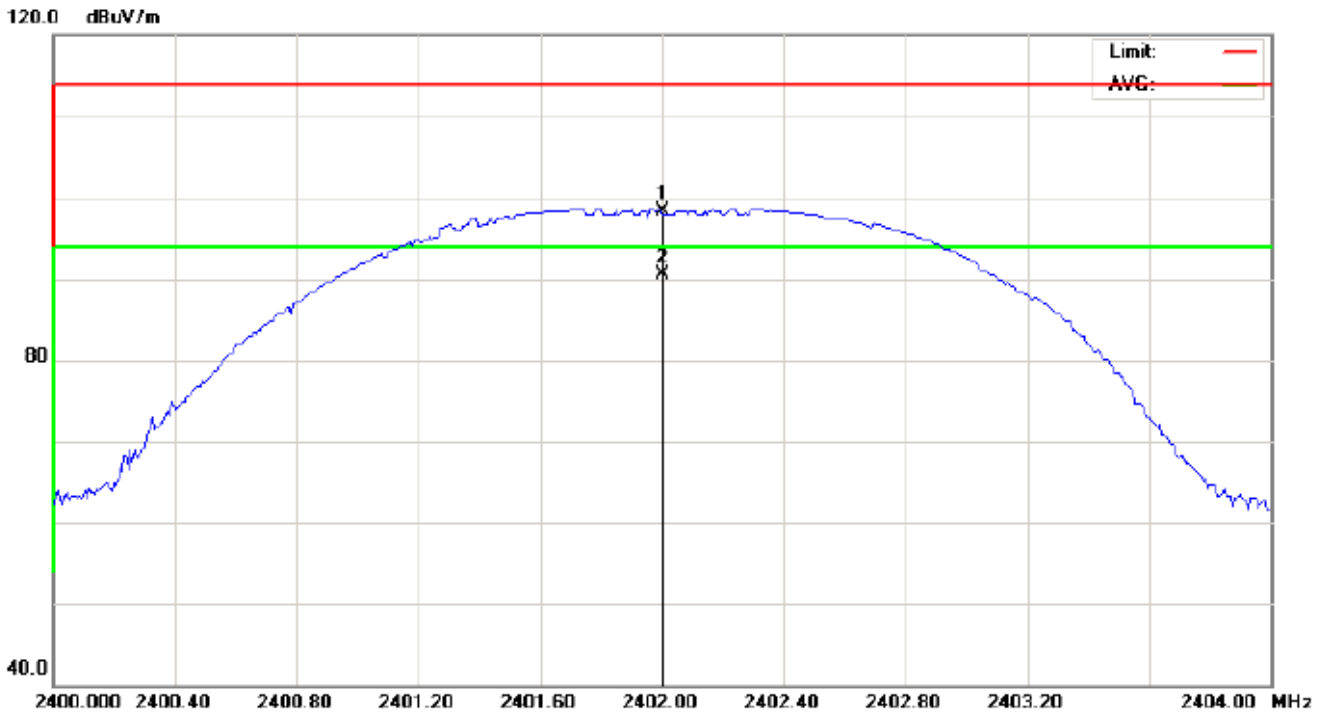
2. The "Factor" value can be calculated automatically by software of measurement system.

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**RADIATED EMISSION ABOVE 1GHz**

**For Fundamental**

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

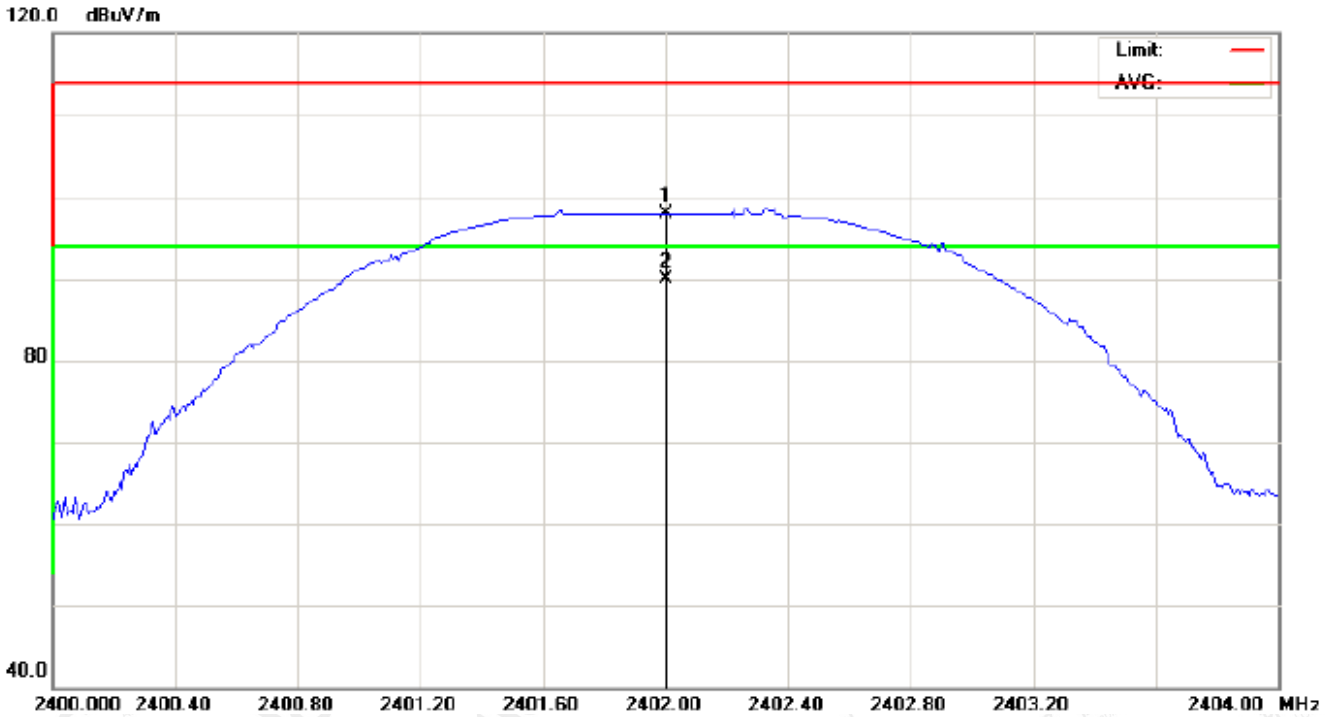


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	88.04	10.32	98.36	114.00	-15.64	peak			
2	*	2402.000	80.13	10.32	90.45	94.00	-3.55	AVG	100	39	

**RESULT: PASS**

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



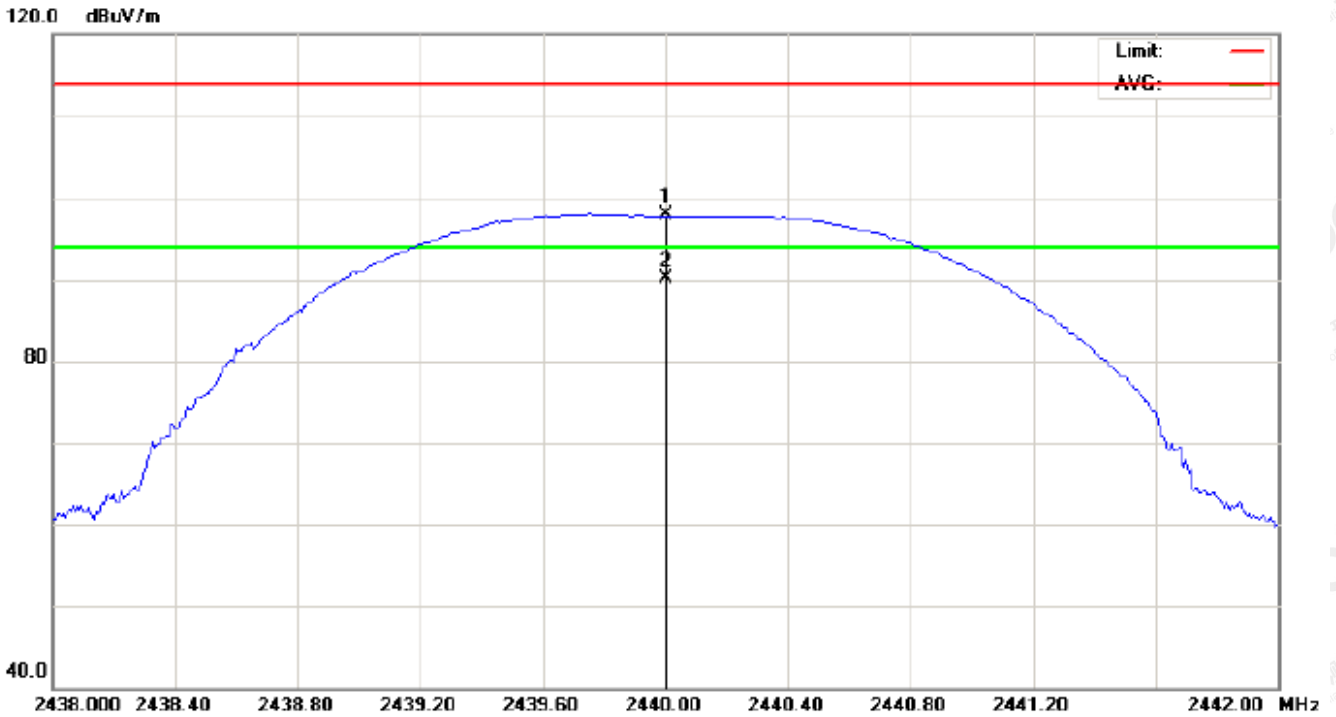
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	87.54	10.32	97.86	114.00	-16.14	peak			
2	*	2402.000	79.60	10.32	89.92	94.00	-4.08	AVG	100	70	

**RESULT: PASS**

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

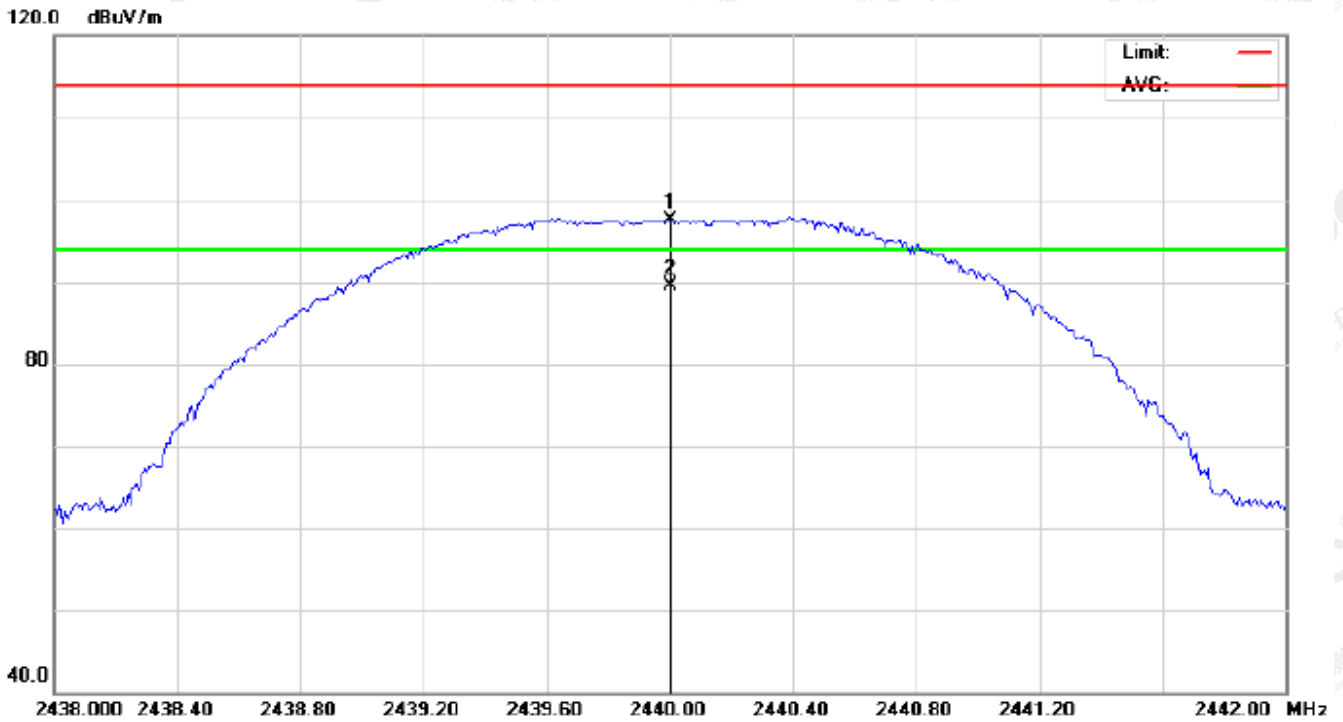


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	87.61	10.36	97.97	114.00	-16.03	peak			
2	*	2440.000	79.68	10.36	90.04	94.00	-3.96	AVG	100	35	

**RESULT: PASS**

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

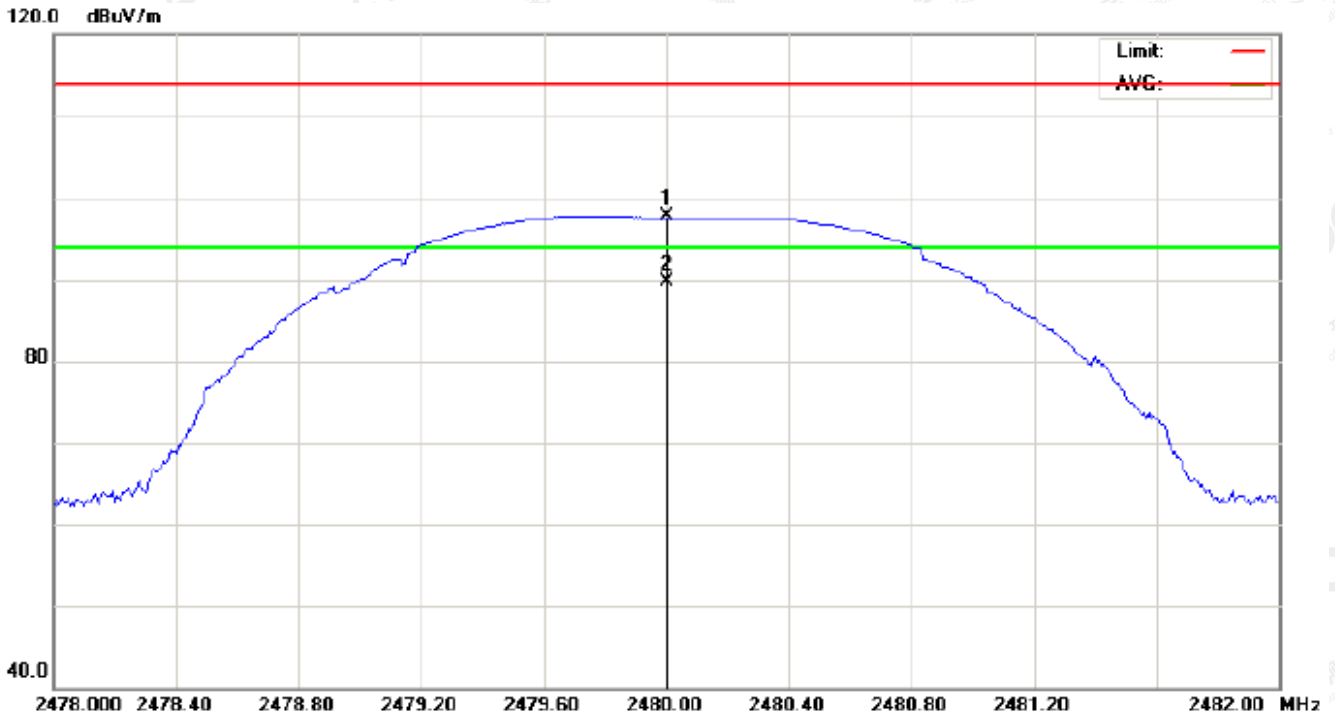


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2440.000	87.16	10.36	97.52	114.00	-16.48	peak			
2	*	2440.000	79.12	10.36	89.48	94.00	-4.52	AVG	100	70	

RESULT: PASS

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

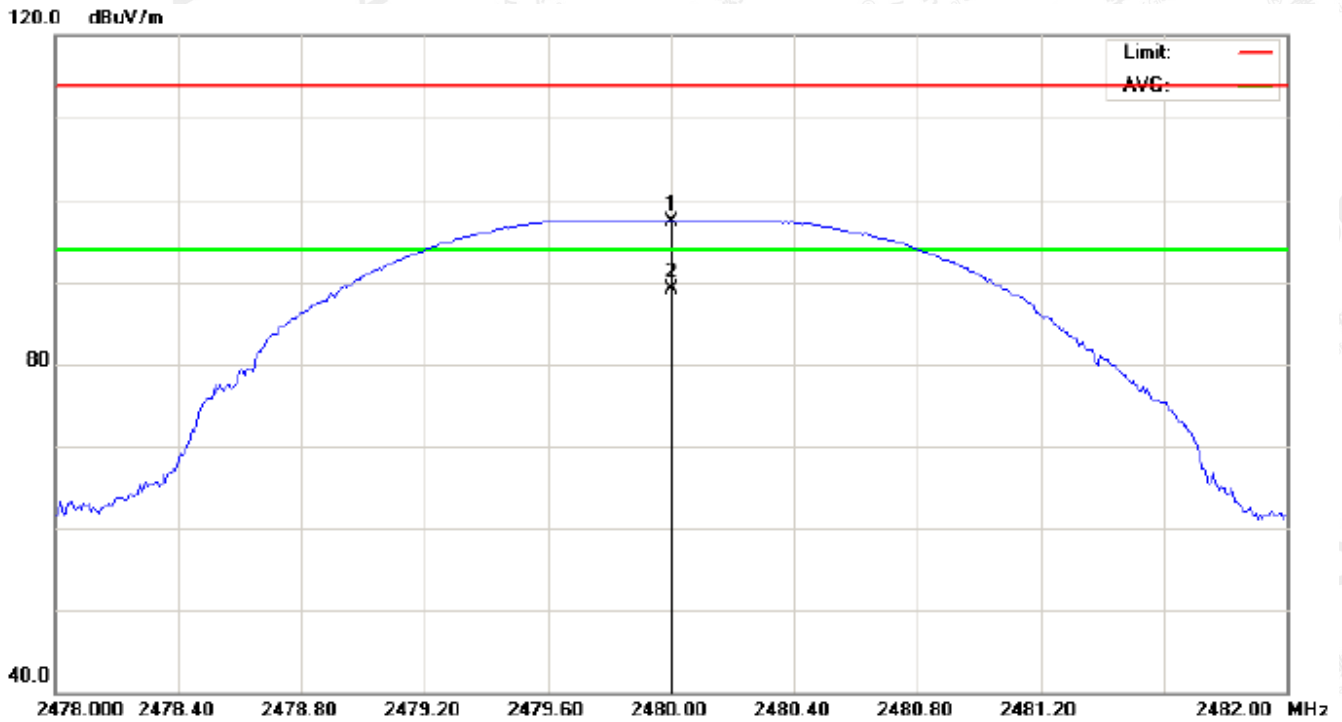


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	87.29	10.41	97.70	114.00	-16.30	peak			
2	*	2480.000	79.36	10.41	89.77	94.00	-4.23	AVG	100	34	

**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	86.80	10.41	97.21	114.00	-16.79	peak			
2	*	2480.000	78.79	10.41	89.20	94.00	-4.80	AVG	100	68	

**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**

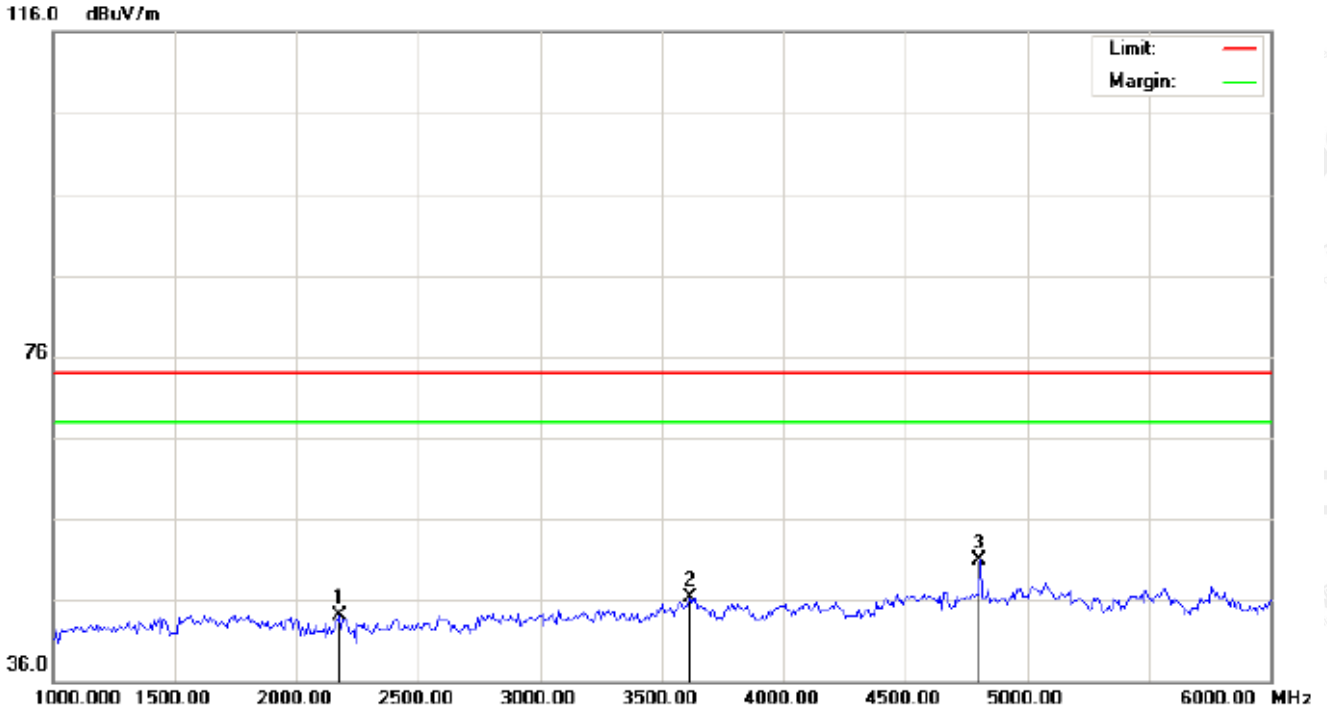
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	88.04	10.32	98.36	114	-15.64	Horizontal
2402	87.54	10.32	97.86	114	-16.14	Vertical
2440	87.61	10.36	97.97	114	-16.03	Horizontal
2440	87.16	10.36	97.52	114	-16.48	Vertical
2480	87.29	10.41	97.70	114	-16.30	Horizontal
2480	86.80	10.41	97.21	114	-16.79	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.13	10.32	90.45	94	-3.55	Horizontal
2402	79.60	10.32	89.92	94	-4.08	Vertical
2440	79.68	10.36	90.04	94	-3.96	Horizontal
2440	79.12	10.36	89.48	94	-4.52	Vertical
2480	79.36	10.41	89.77	94	-4.23	Horizontal
2480	78.79	10.41	89.20	94	-4.80	Vertical

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

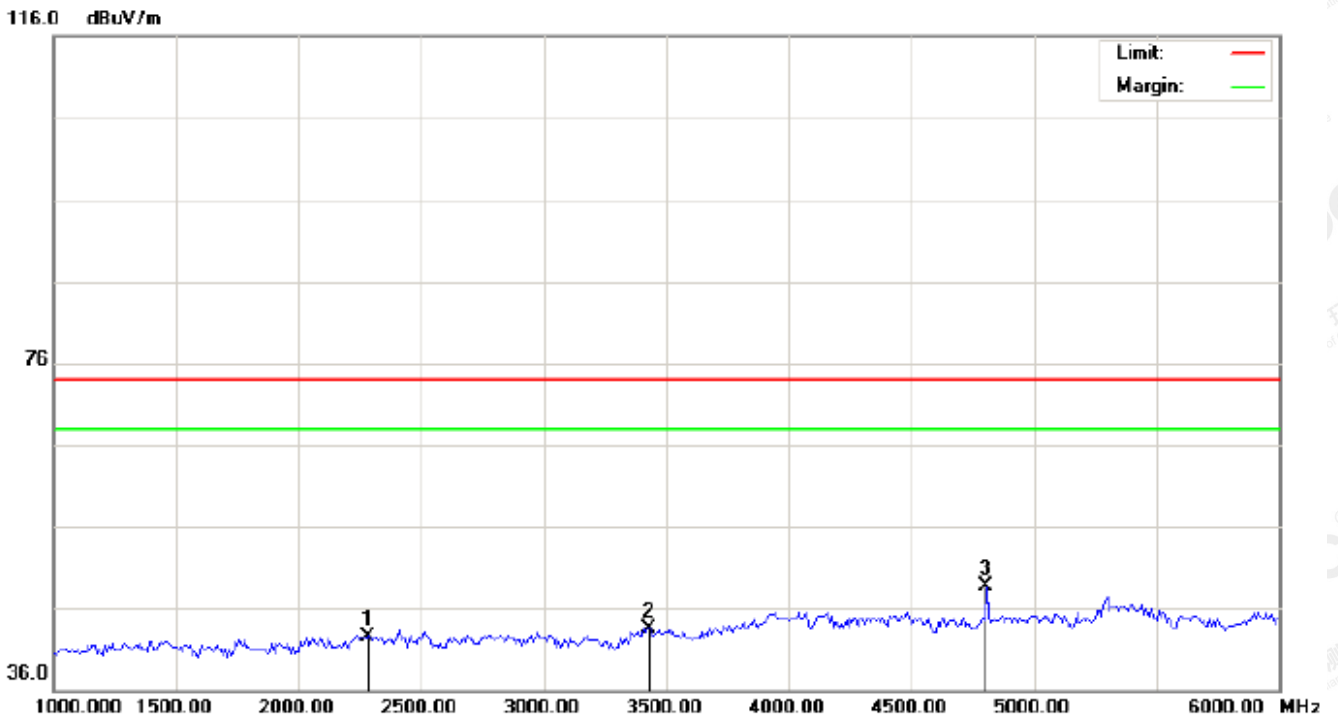


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	34.00	10.07	44.07	74.00	-29.93	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

**RESULT: PASS**

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

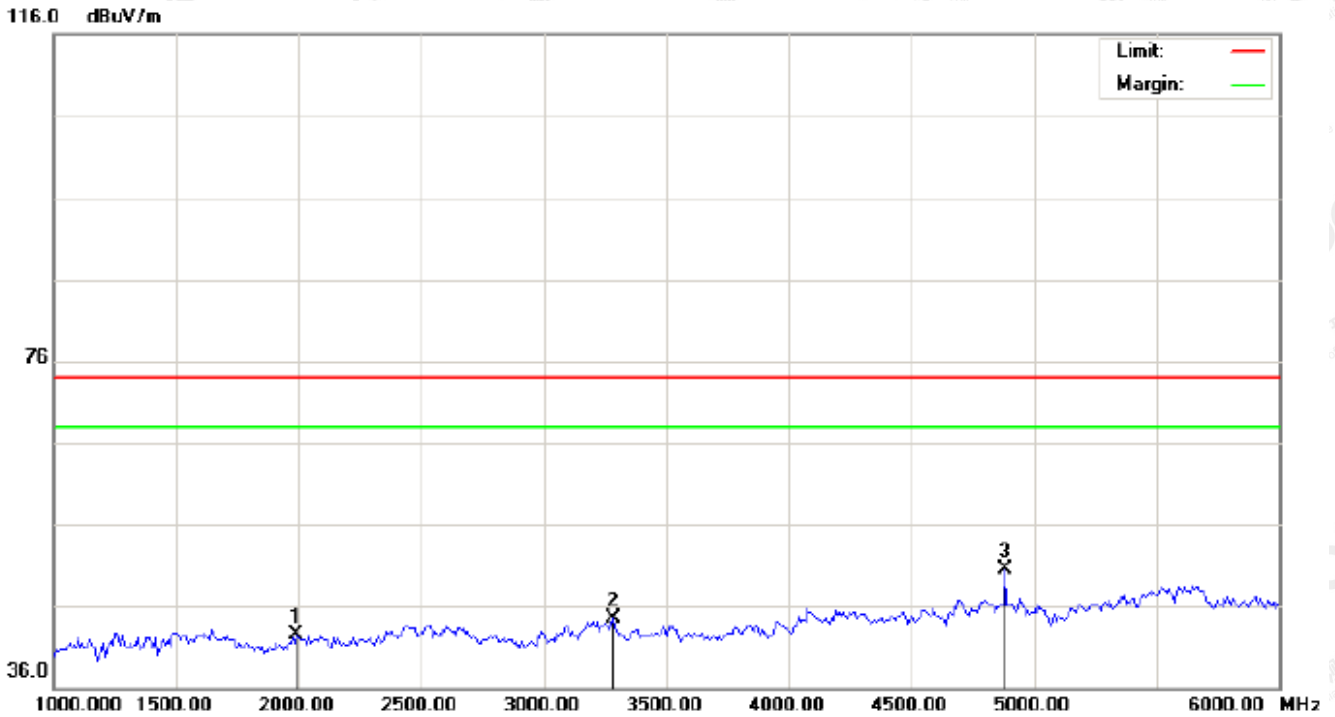


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1		2283.333	32.41	10.19	42.60	74.00	-31.40	peak			
2		3433.333	31.54	12.05	43.59	74.00	-30.41	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

**RESULT: PASS**

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



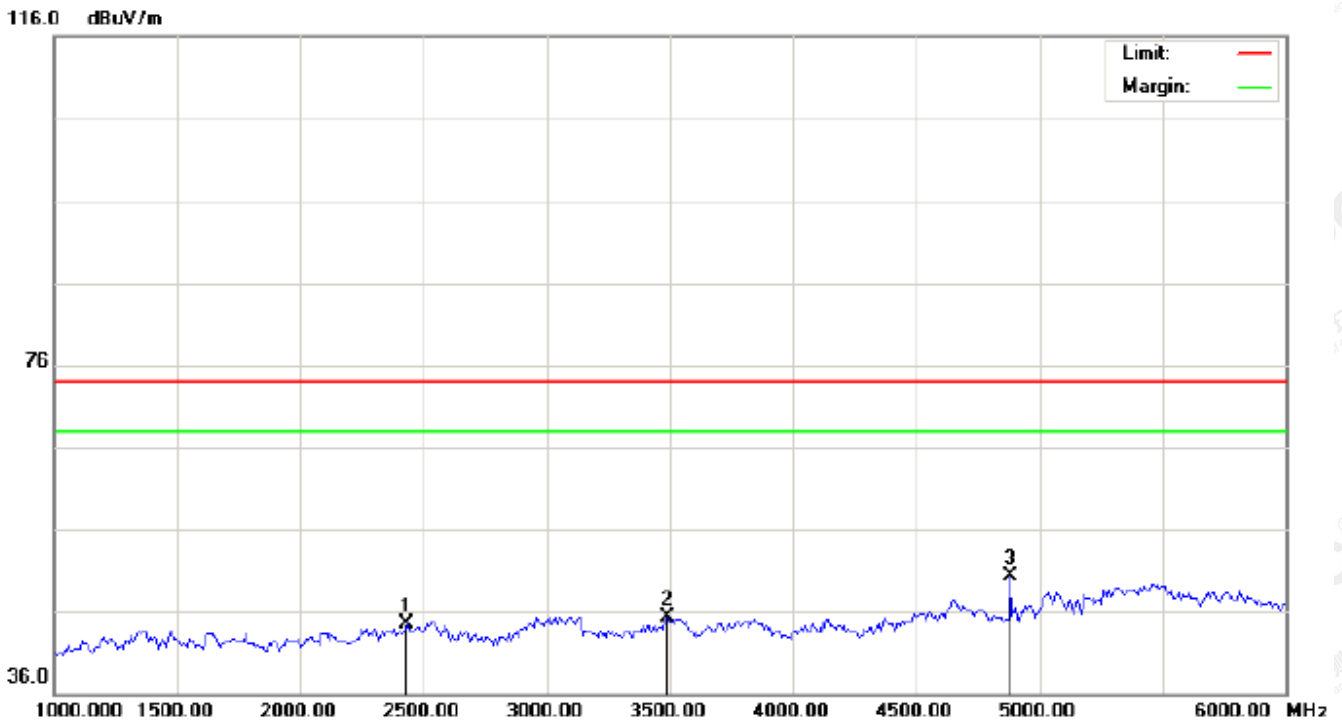
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1991.667	32.70	9.79	42.49	74.00	-31.51	peak			
2		3283.333	32.67	11.91	44.58	74.00	-29.42	peak			
3	*	4880.000	42.66	7.89	50.55	74.00	-23.45	peak			

**RESULT: PASS**

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

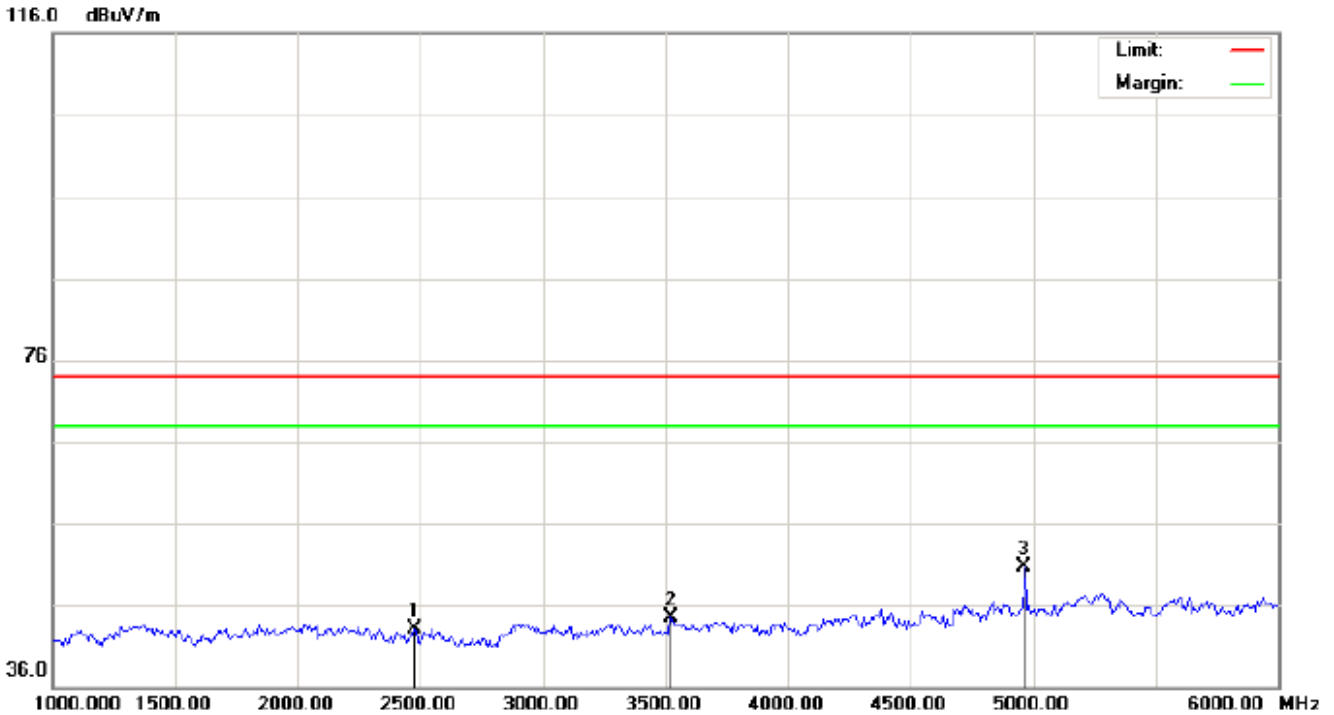


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4880.000	42.39	7.89	50.28	74.00	-23.72	peak			

**RESULT: PASS**

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

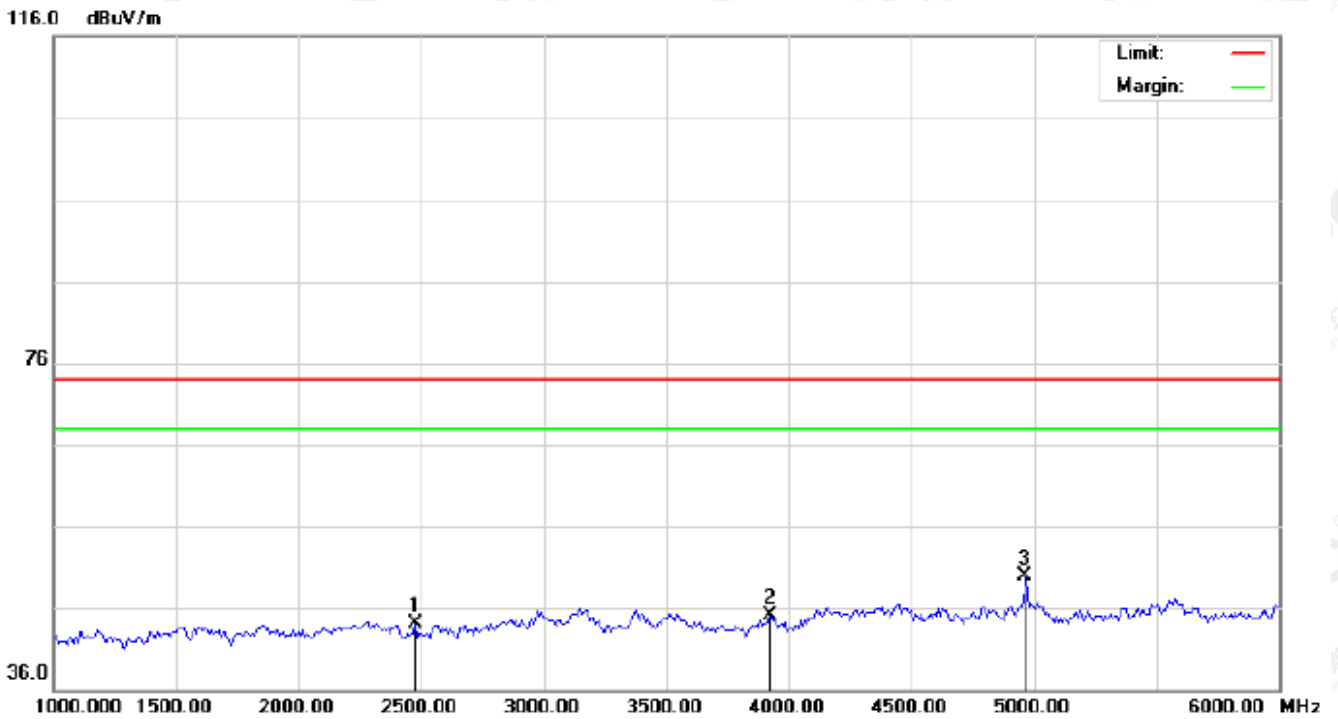


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

**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		2475.000	33.61	10.40	44.01	74.00	-29.99	peak			
2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	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

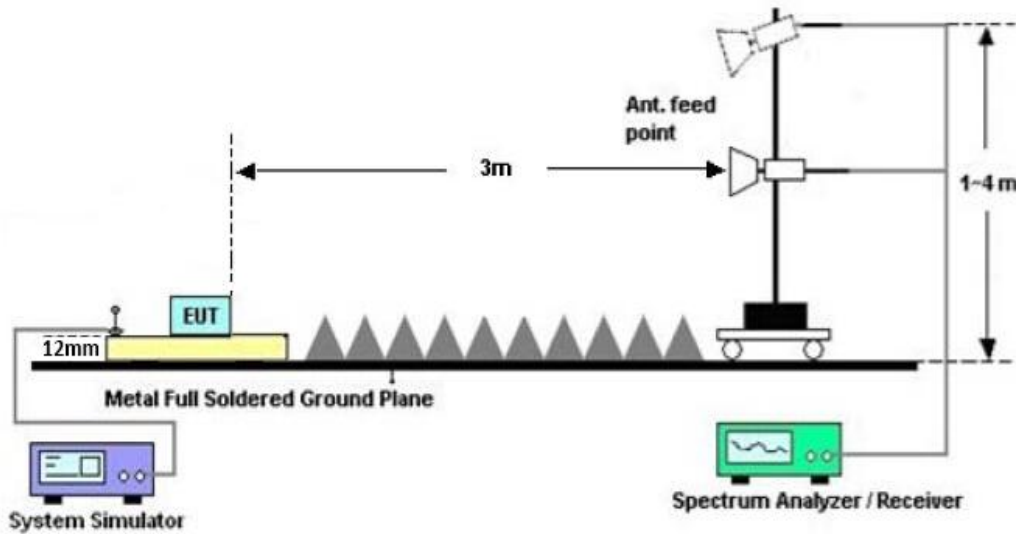
### 10.1. MEASUREMENT PROCEDURE

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

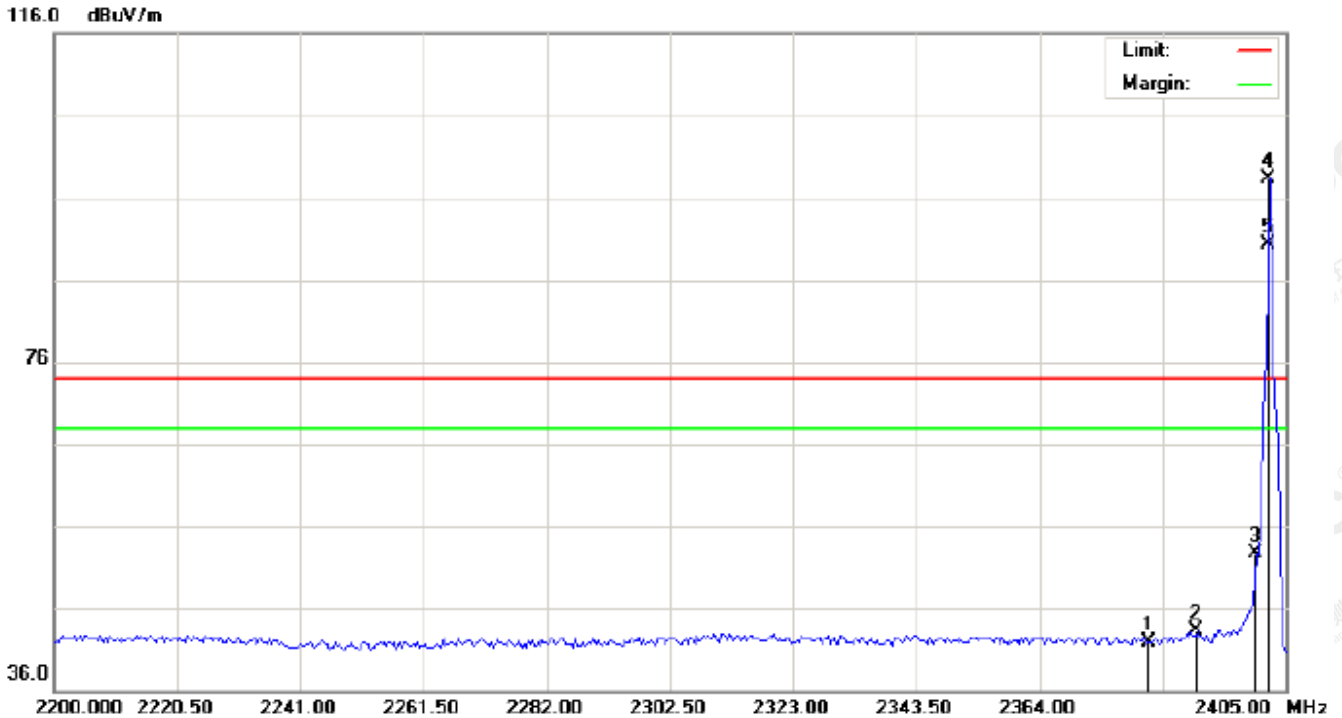
#### RADIATED EMISSION TEST SETUP



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**10.3 RADIATED TEST RESULT**

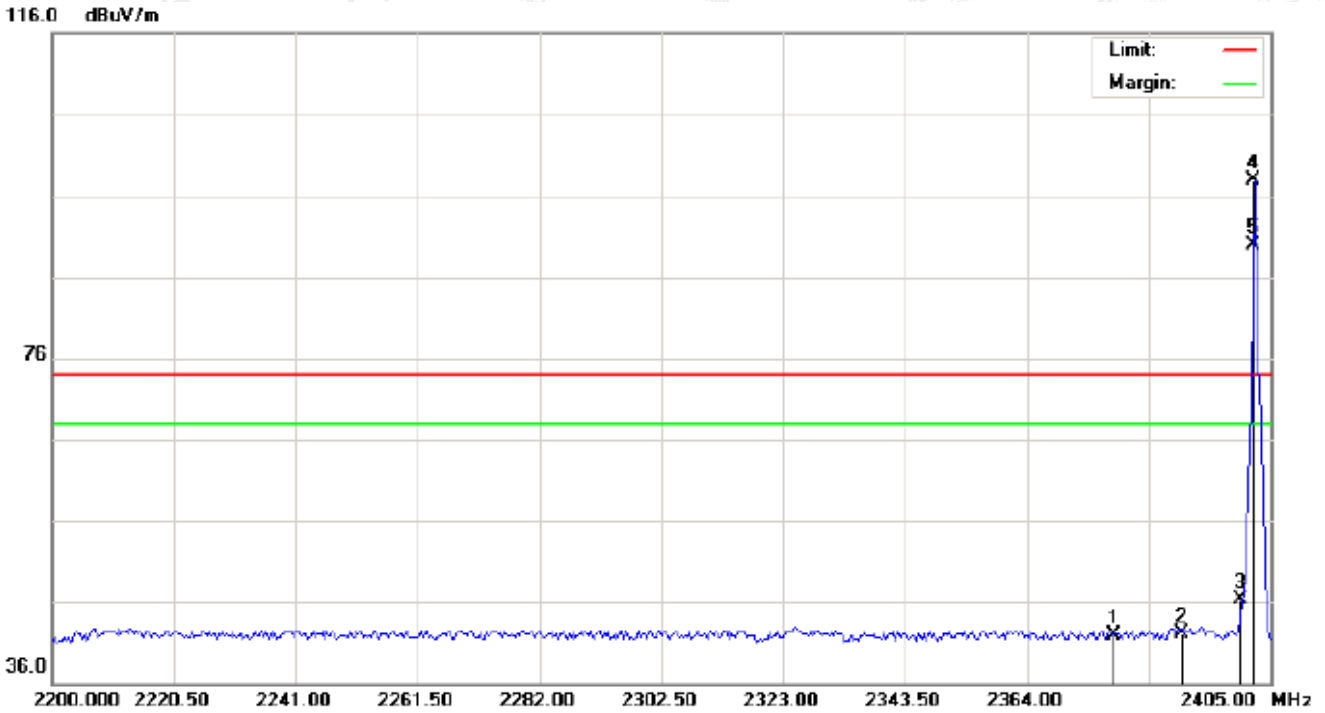
**TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal**



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		2382.108	31.66	10.30	41.96	74.00	-32.04	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	88.03	10.32	98.35	74.00	24.35	peak			
5	X	2402.000	79.95	10.32	90.27	74.00	16.27	AVG	100	312	

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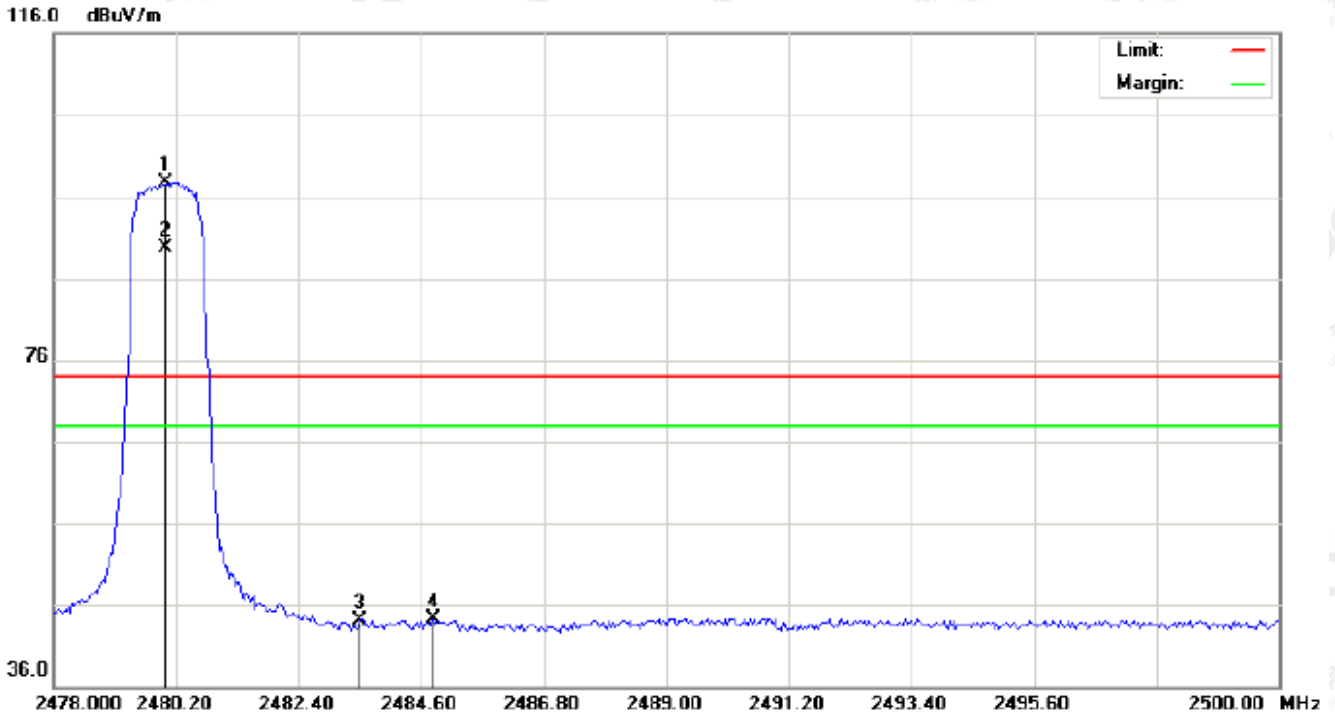
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



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		2378.692	31.54	10.30	41.84	74.00	-32.16	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	87.68	10.32	98.00	74.00	24.00	peak			
5	X	2402.000	79.65	10.32	89.97	74.00	15.97	AVG	100	124	

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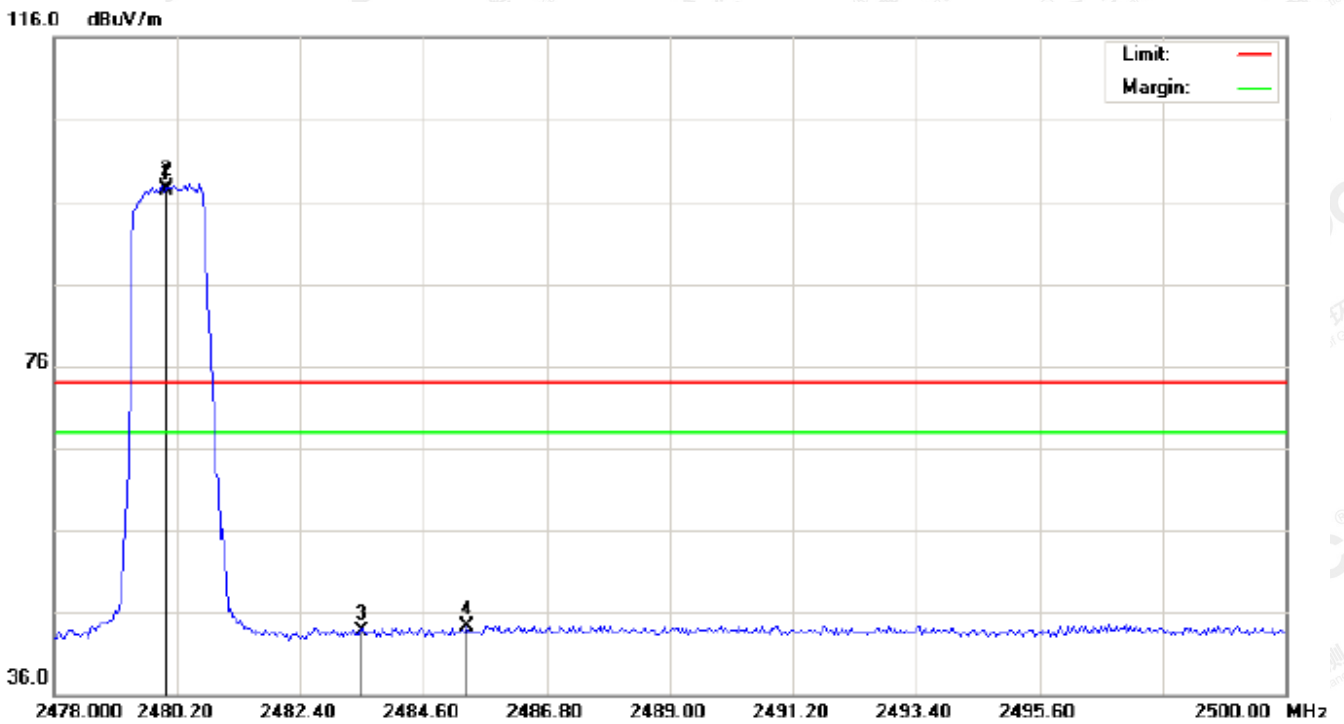
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



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	87.30	10.41	97.71	74.00	23.71	peak			
2	X	2480.000	79.21	10.41	89.62	74.00	15.62	AVG	100	341	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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TEST PLOT OF BAND EDGE FOR 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	X	2480.000	86.93	10.41	97.34	74.00	23.34	peak			
2	*	2480.000	87.32	10.41	97.73	74.00	23.73	AVG	100	111	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.370	33.89	10.41	44.30	74.00	-29.70	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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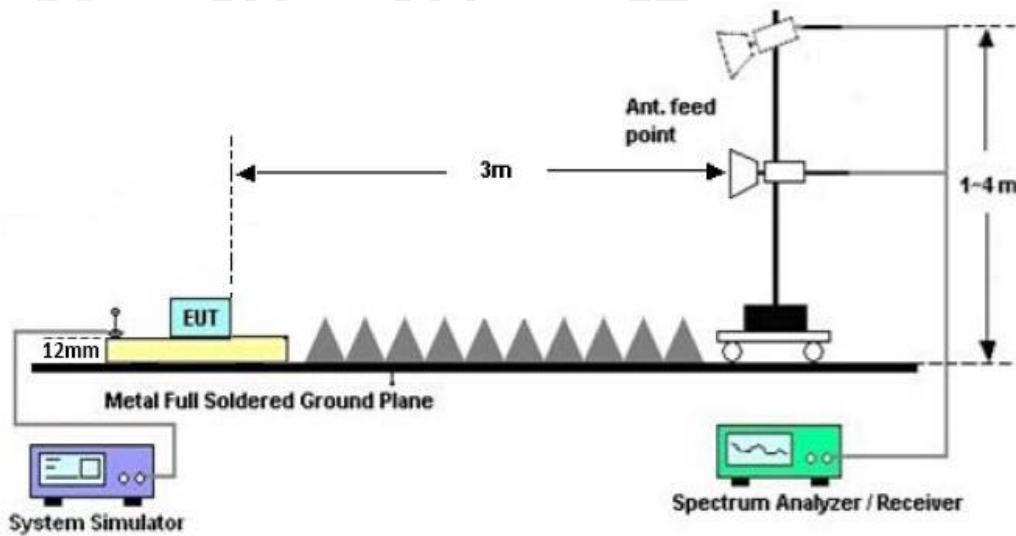


## 11. 20DB BANDWIDTH

### 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 hoping 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

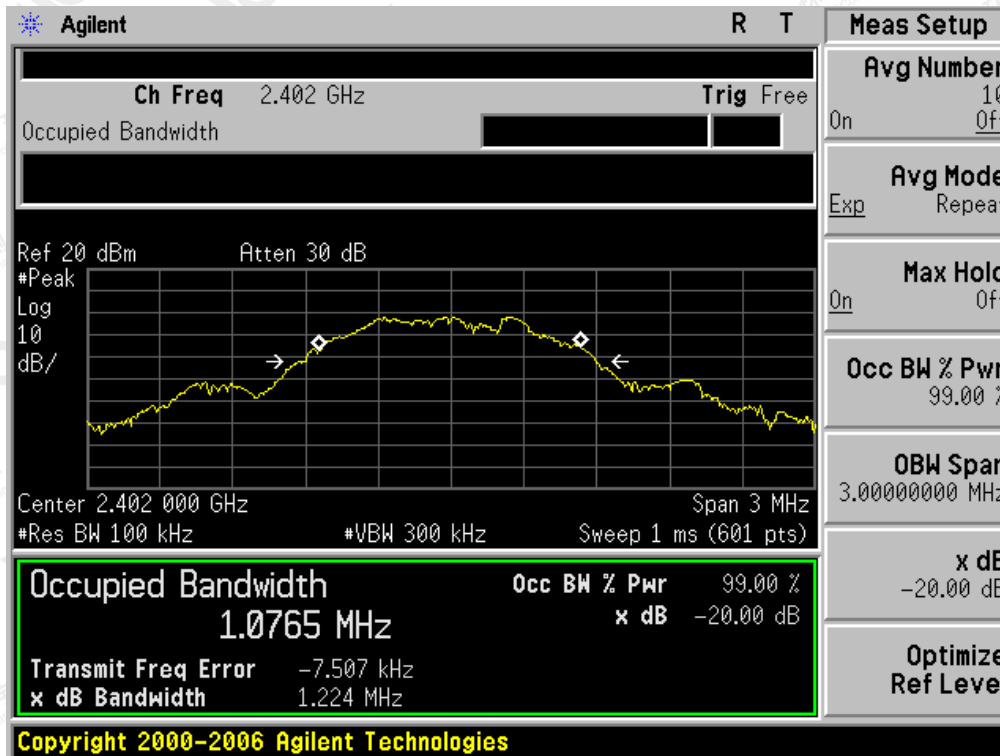


### 11.3. LIMITS AND MEASUREMENT RESULTS

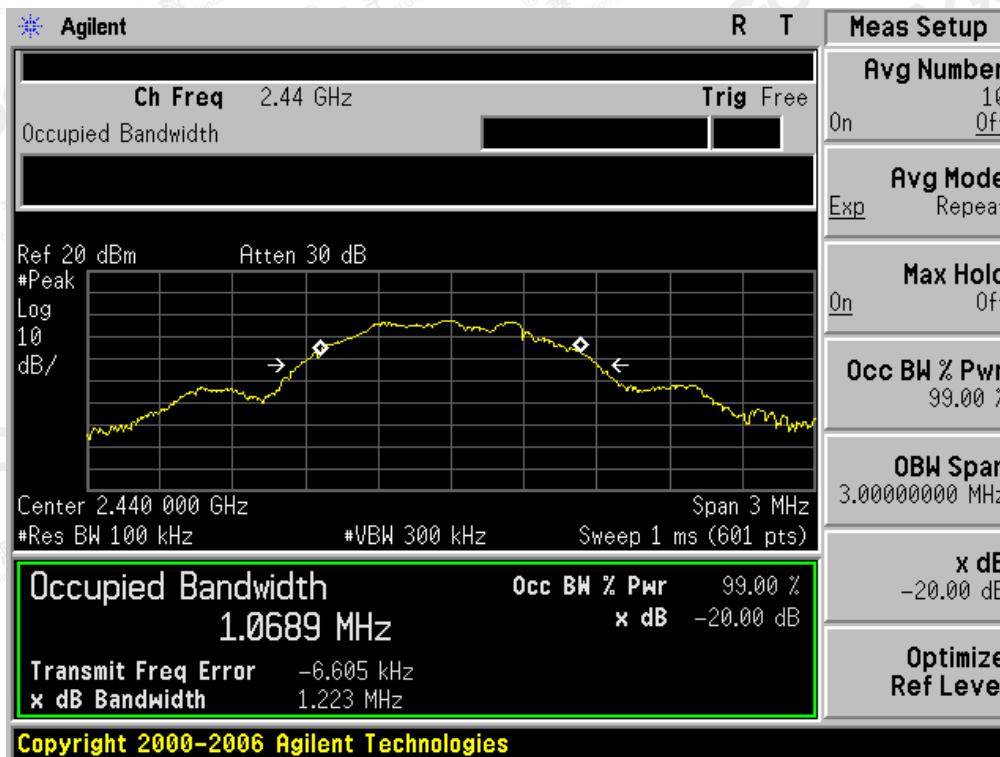
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.077	1.224	PASS
	Middle Channel	1.069	1.223	PASS
	High Channel	1.078	1.210	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

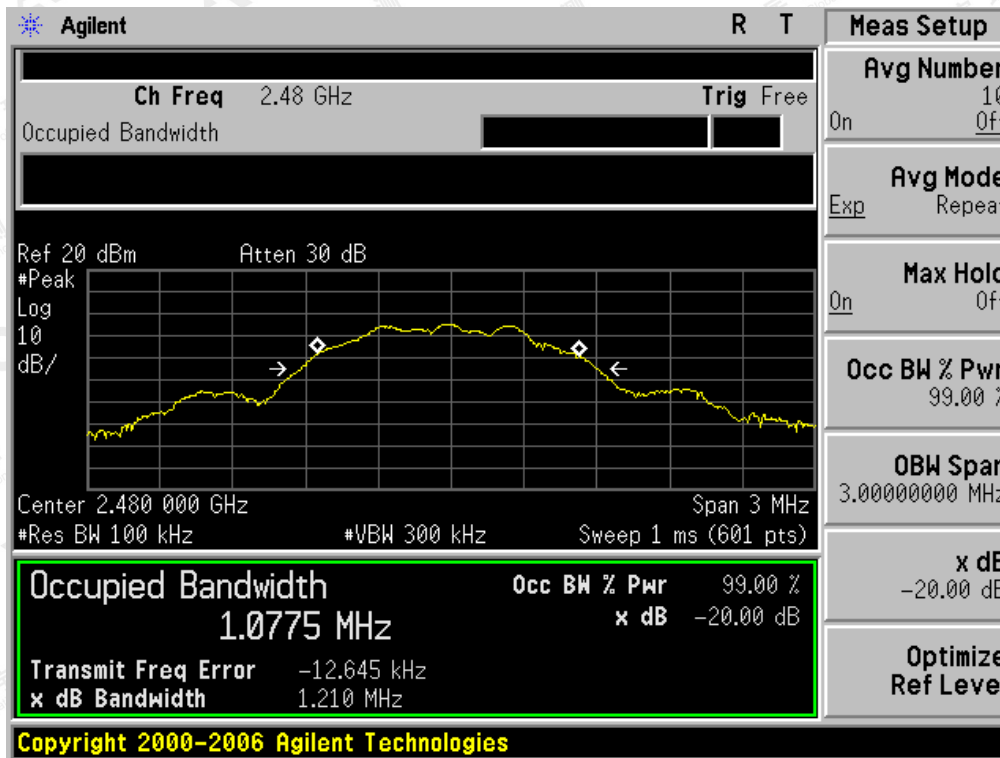


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 12. FCC LINE CONDUCTED EMISSION TEST

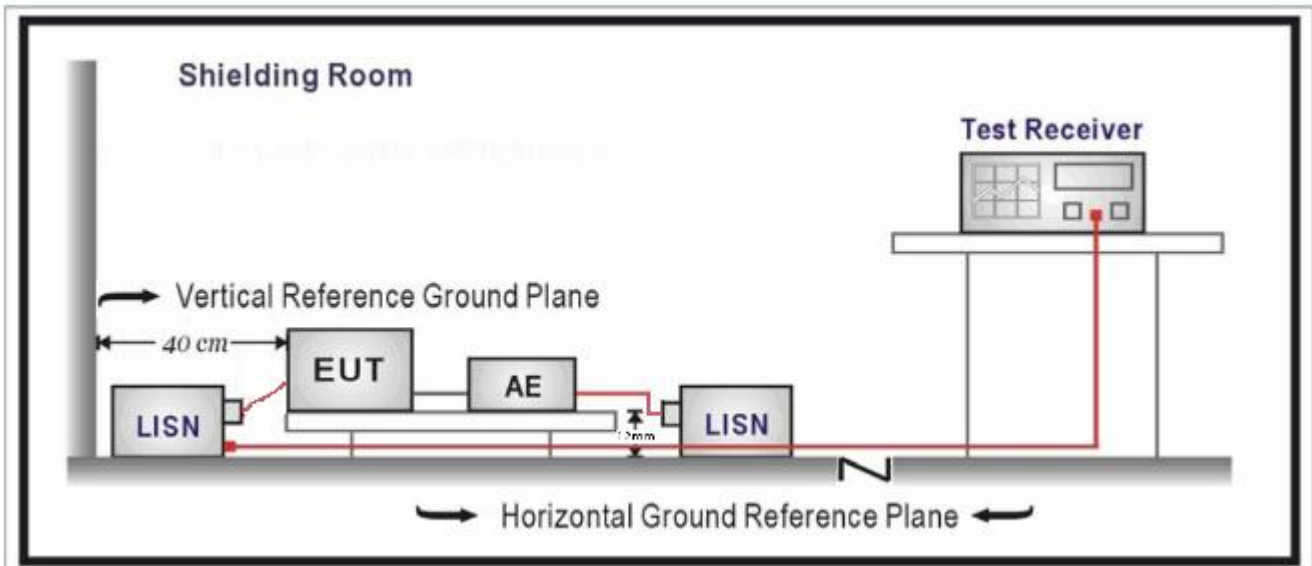
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 12mm 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 voltage by adapter 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

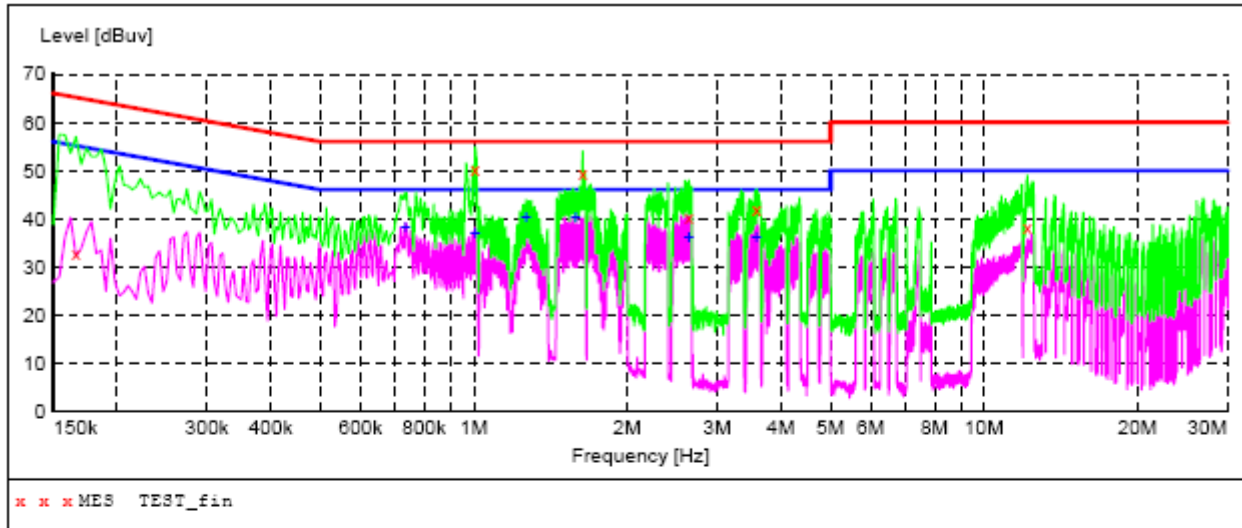
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used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

Line Conducted Emission Test Line 1-L



**MEASUREMENT RESULT: "TEST\_fin"**

2018/3/6 16:12

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.166000	32.70	11.4	65	32.5	QP	L1	FLO
1.006000	50.20	11.3	56	5.8	QP	L1	FLO
1.634000	49.30	11.3	56	6.7	QP	L1	FLO
2.638000	40.30	11.4	56	15.7	QP	L1	FLO
3.586000	41.80	11.4	56	14.2	QP	L1	FLO
12.154000	38.10	11.2	60	21.9	QP	L1	FLO

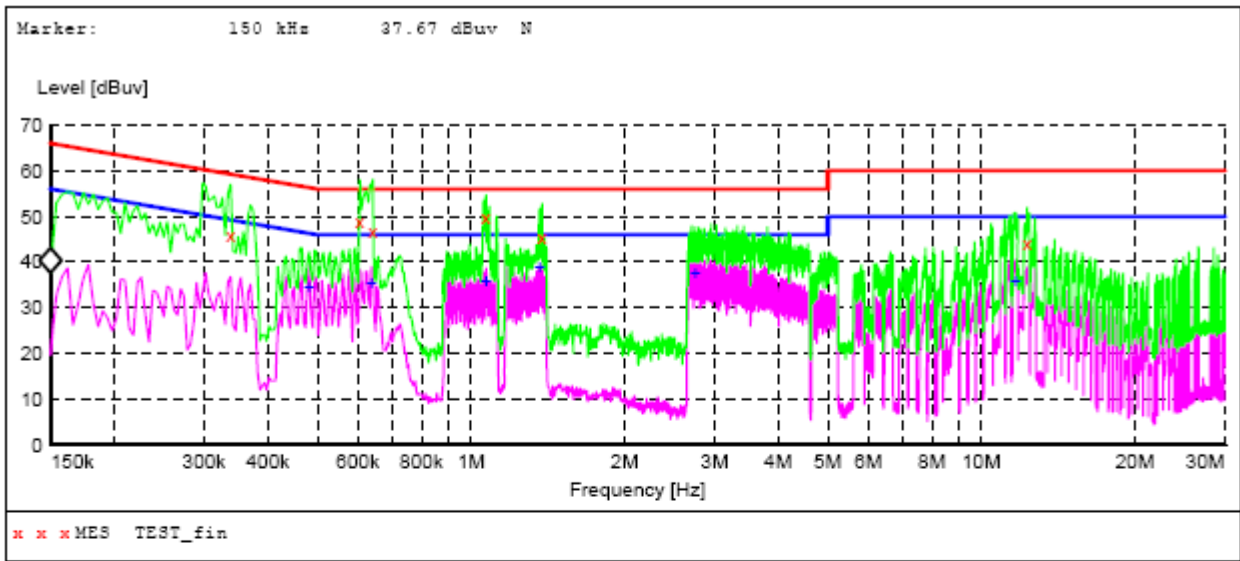
**MEASUREMENT RESULT: "TEST\_fin2"**

2018/3/6 16:13

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.734000	38.20	11.4	46	7.8	AV	L1	FLO
1.006000	36.90	11.3	46	9.1	AV	L1	FLO
1.266000	40.10	11.3	46	5.9	AV	L1	FLO
1.582000	40.30	11.3	46	5.7	AV	L1	FLO
2.642000	36.00	11.4	46	10.0	AV	L1	FLO
3.586000	36.10	11.4	46	9.9	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



**MEASUREMENT RESULT: "TEST\_fin"**

2018/3/6 16:17

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.338000	45.80	11.3	59	13.5	QP	N	FLO
0.606000	49.00	11.4	56	7.0	QP	N	FLO
0.642000	46.60	11.4	56	9.4	QP	N	FLO
1.070000	49.70	11.3	56	6.3	QP	N	FLO
1.378000	45.40	11.3	56	10.6	QP	N	FLO
12.298000	44.20	11.2	60	15.8	QP	N	FLO

**MEASUREMENT RESULT: "TEST\_fin2"**

2018/3/6 16:17

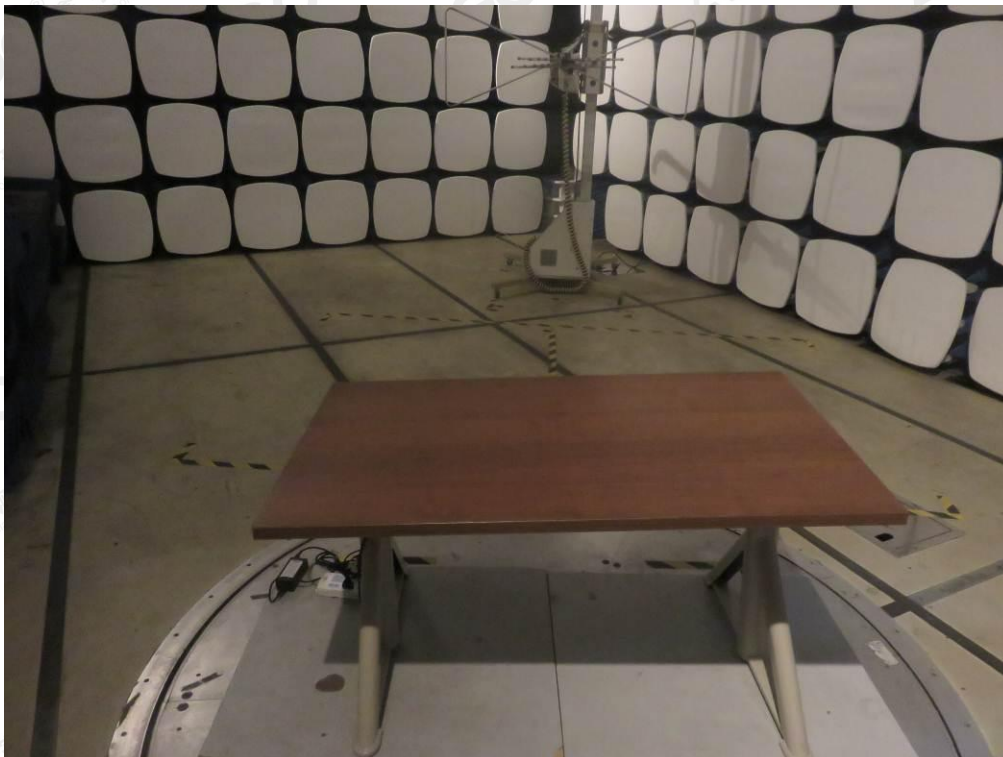
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.482000	34.60	11.4	46	11.7	AV	N	FLO
0.638000	35.20	11.4	46	10.8	AV	N	FLO
1.070000	35.90	11.3	46	10.1	AV	N	FLO
1.362000	39.00	11.3	46	7.0	AV	N	FLO
2.754000	37.40	11.4	46	8.6	AV	N	FLO
11.666000	35.60	11.3	50	14.4	AV	N	FLO

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

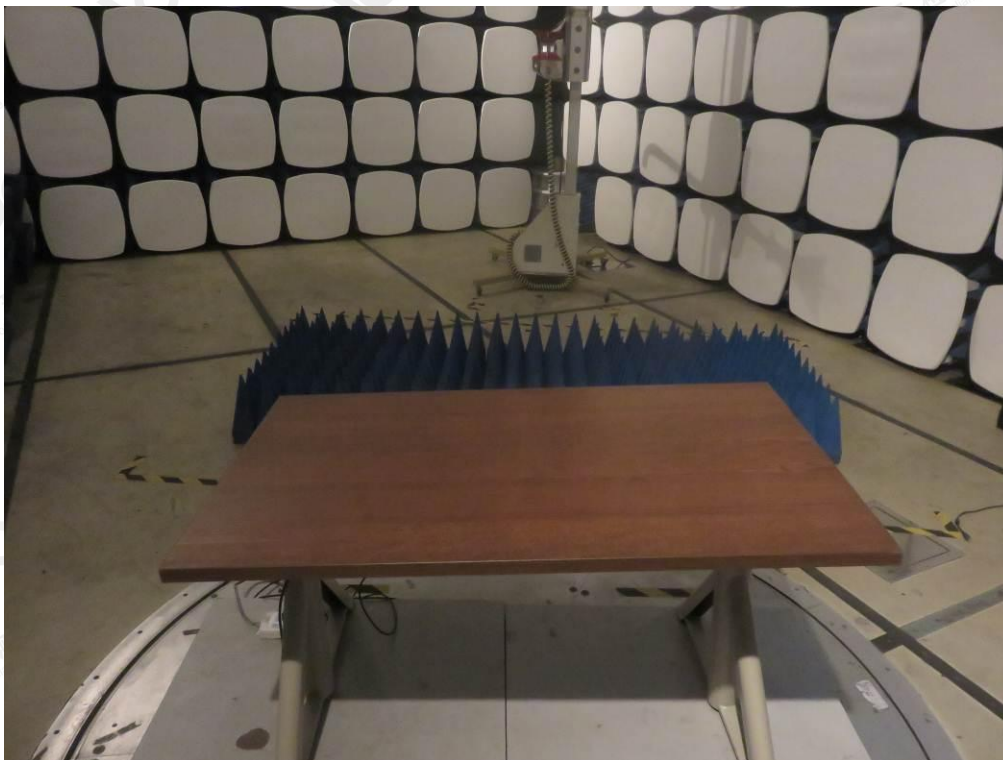
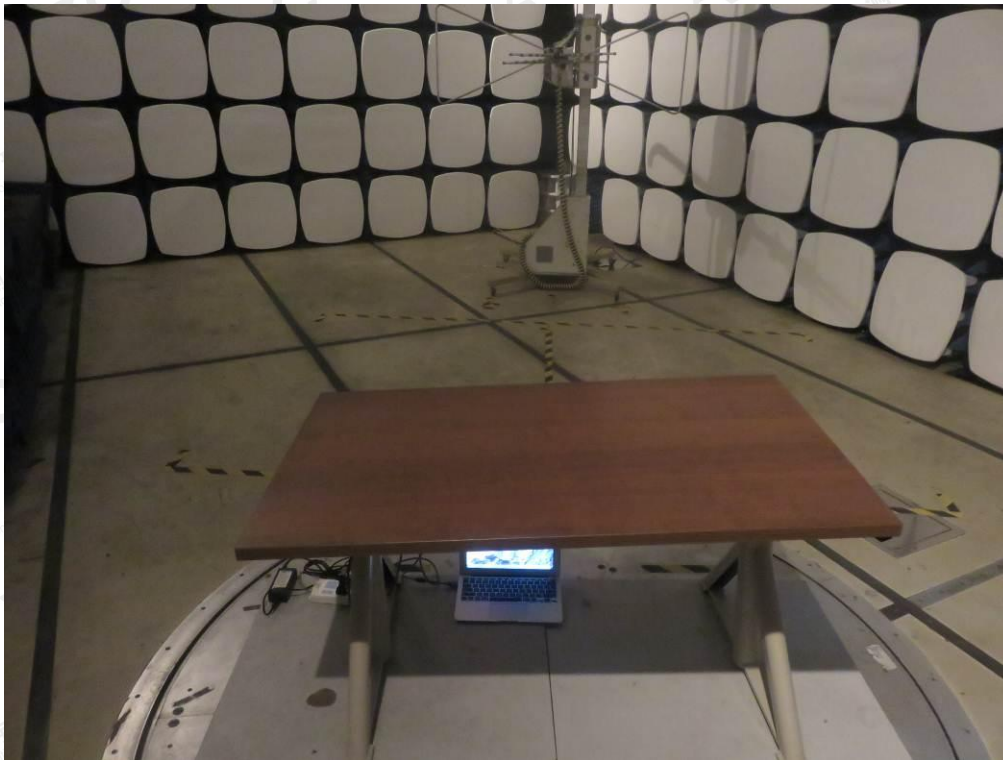


**FCC RADIATED EMISSION TEST SETUP**

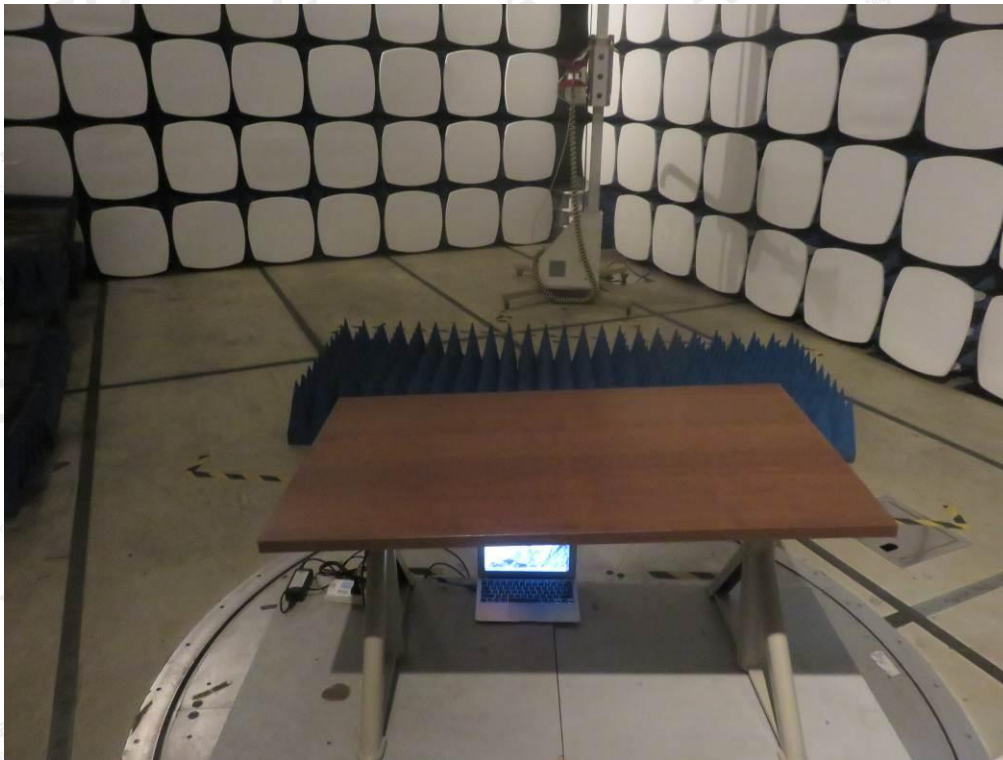


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**APPENDIX B: PHOTOGRAPHS OF EUT**  
TOTAL VIEW OF EUT



**Master**  
TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

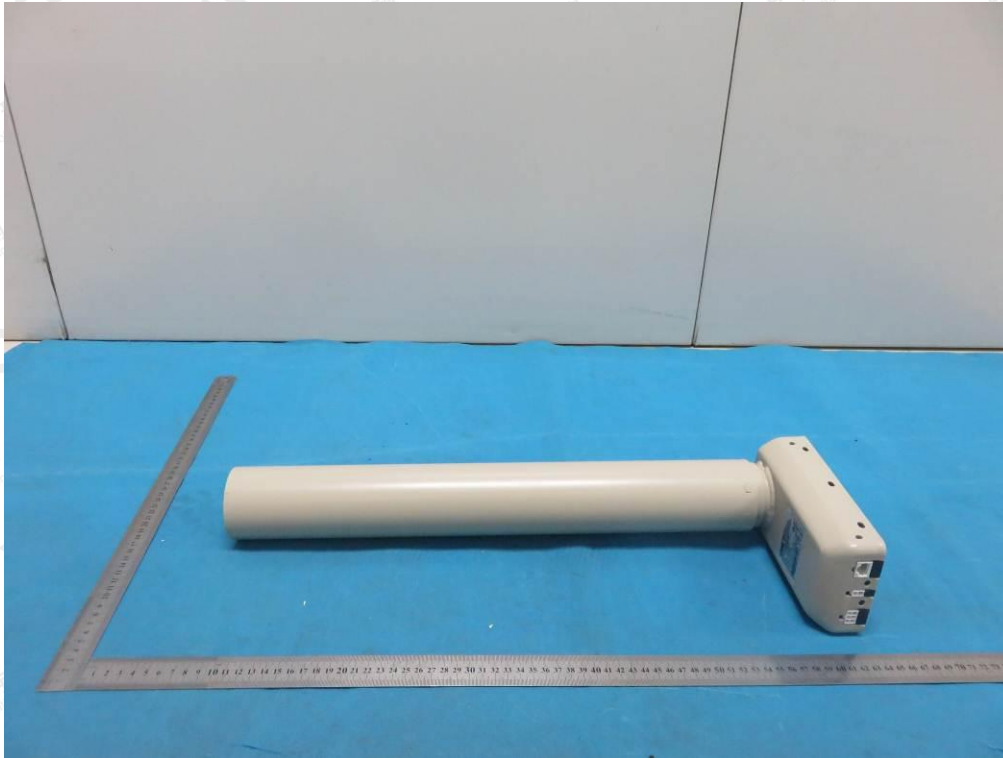


FRONT VIEW OF EUT

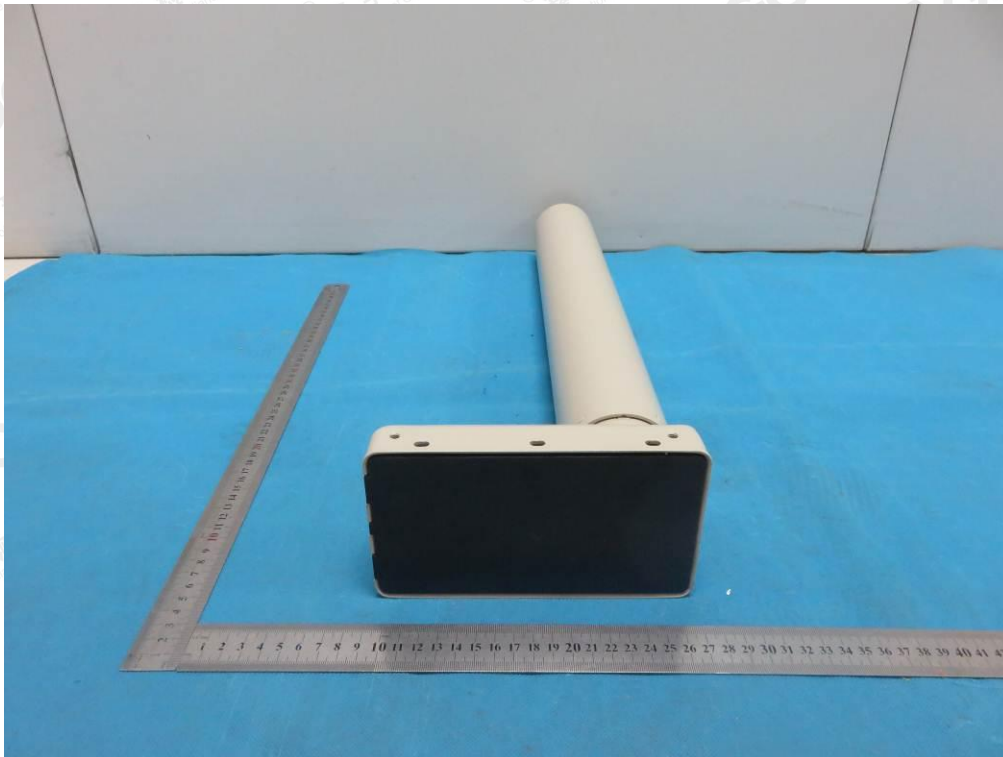


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BACK VIEW OF EUT

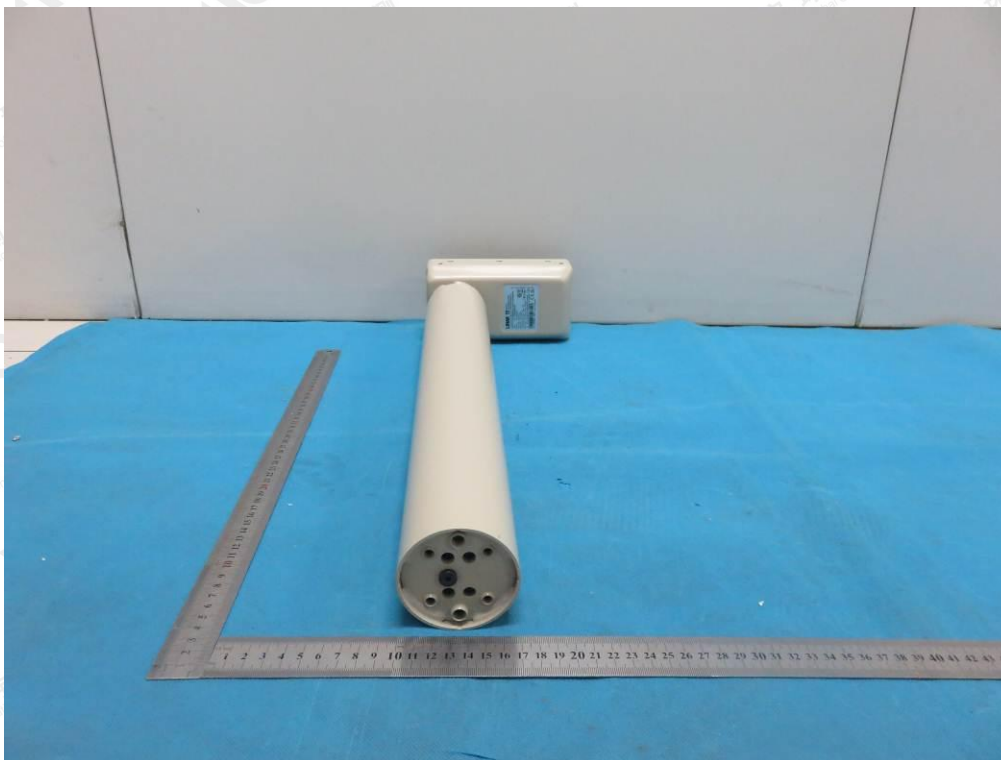


LEFT VIEW OF EUT

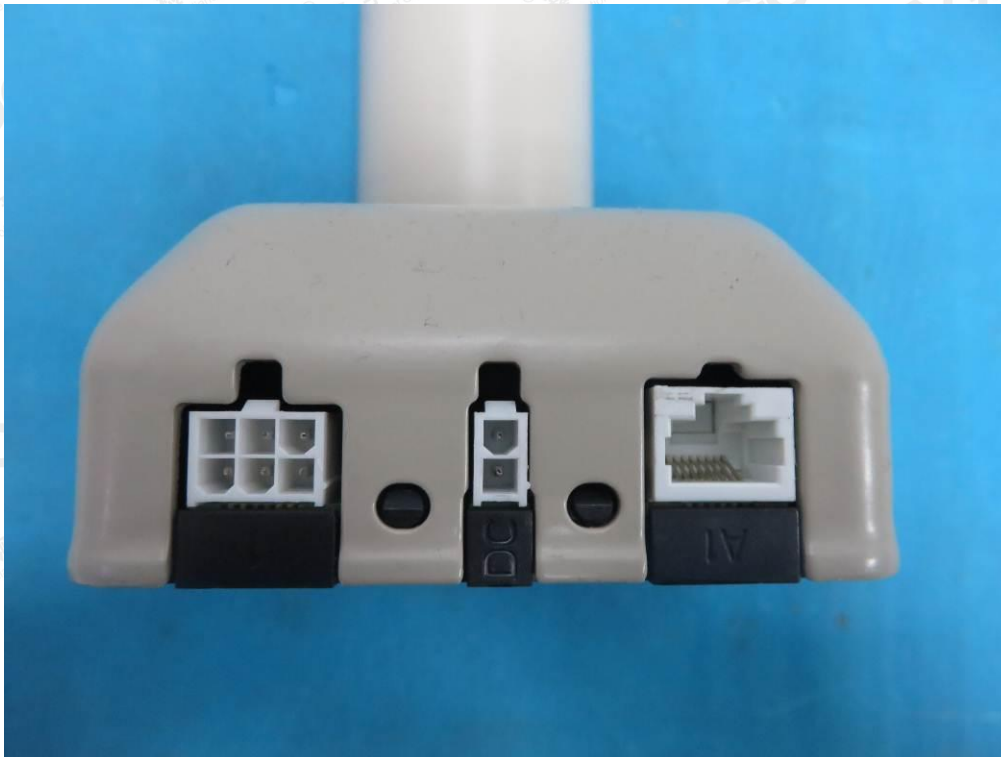


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RIGHT VIEW OF EUT



VIEW OF EUT (Port)

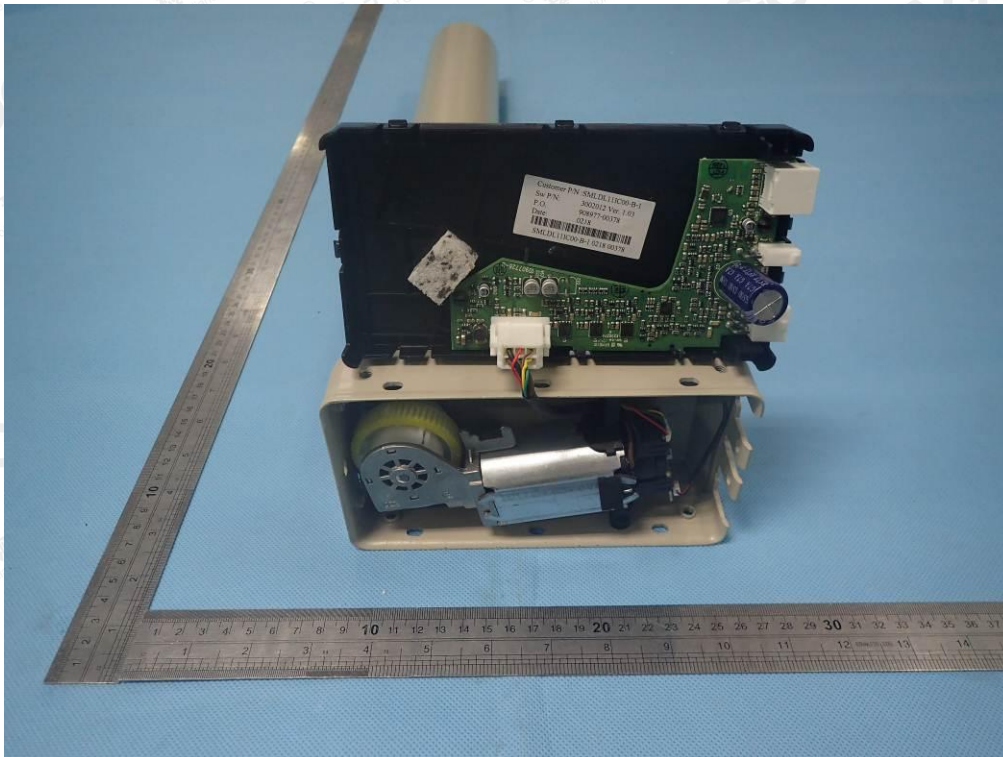


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VIEW OF EUT (Local)

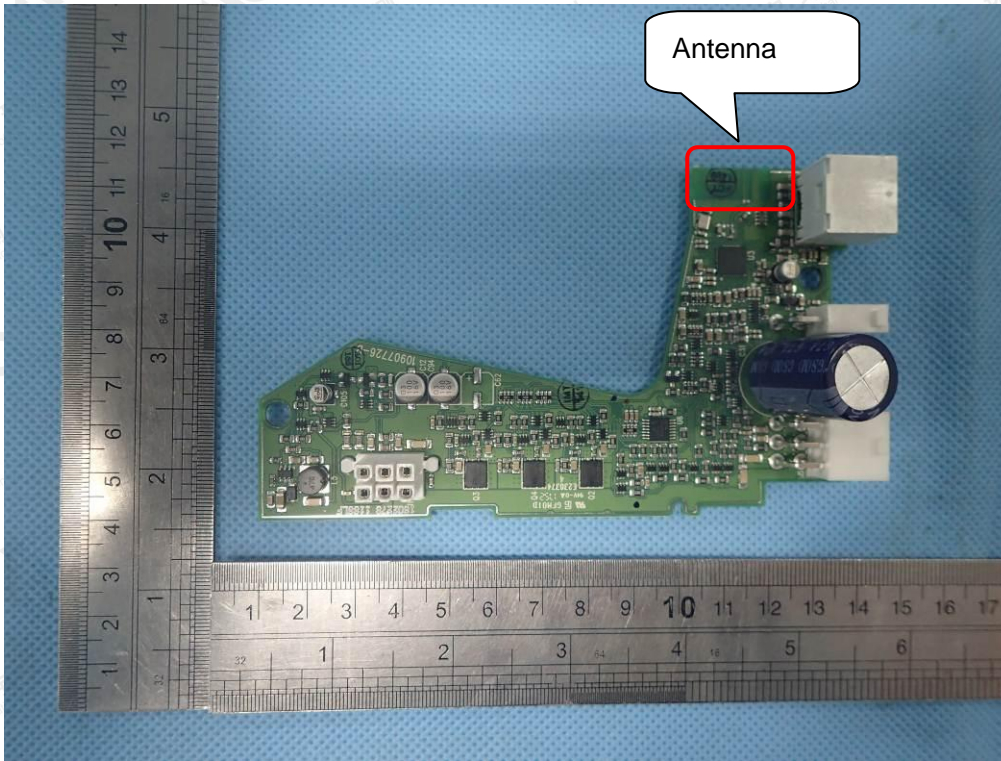


OPEN VIEW OF EUT

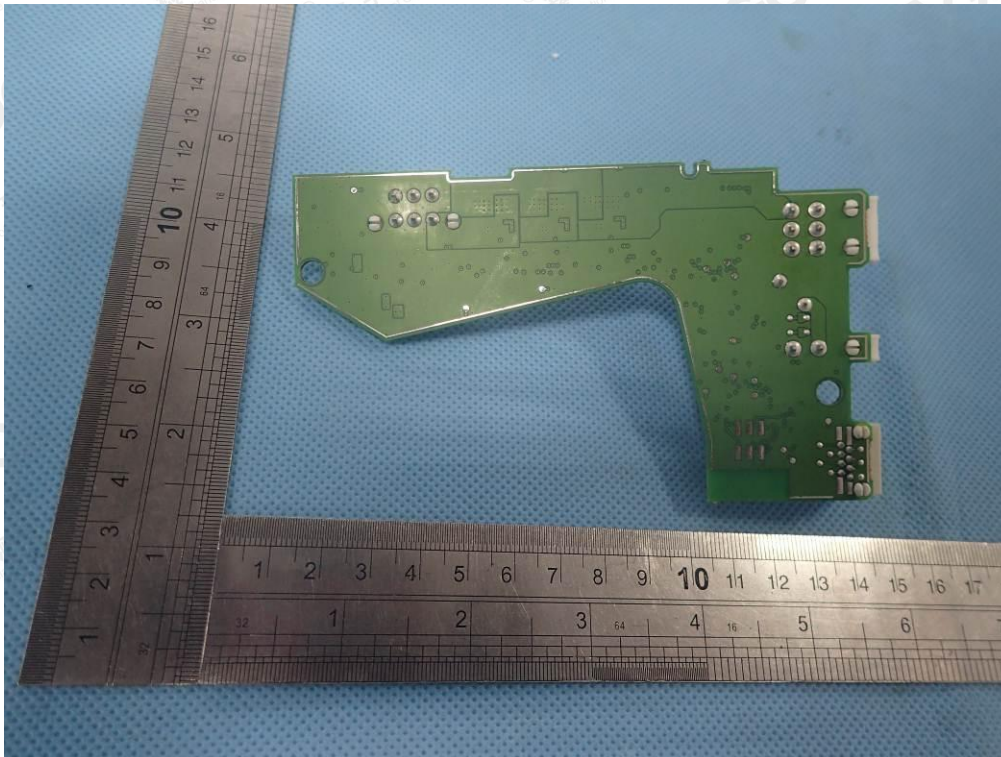


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INTERNAL VIEW OF EUT-1



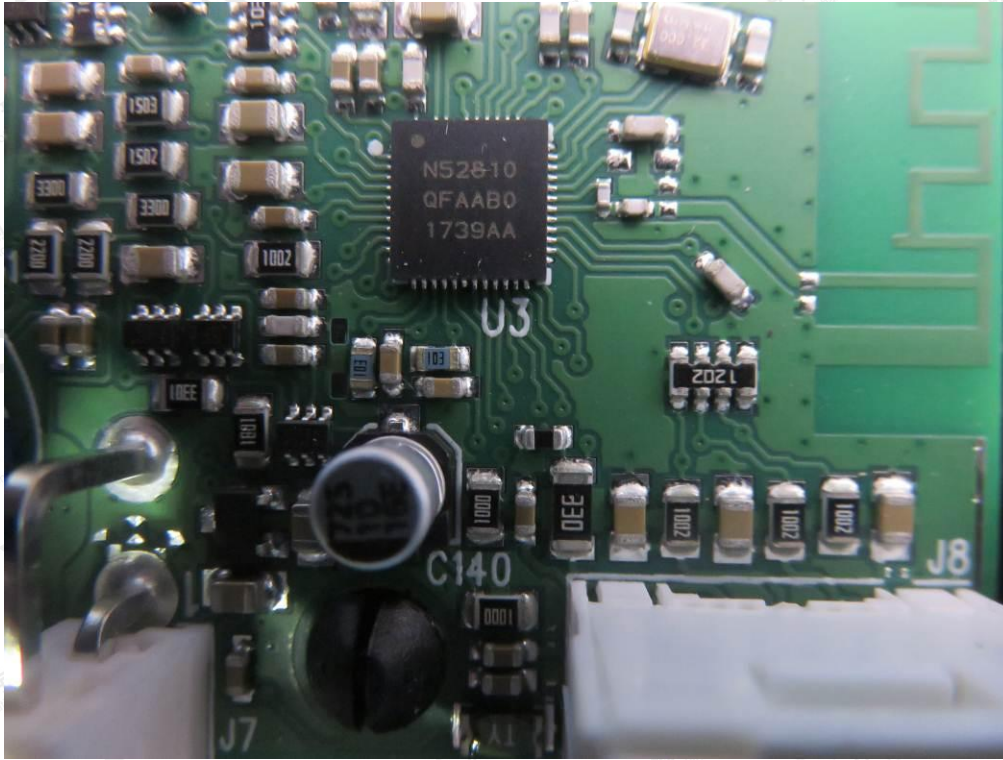
INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



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**Slave**  
**TOP VIEW OF EUT**



**BOTTOM VIEW OF EUT**

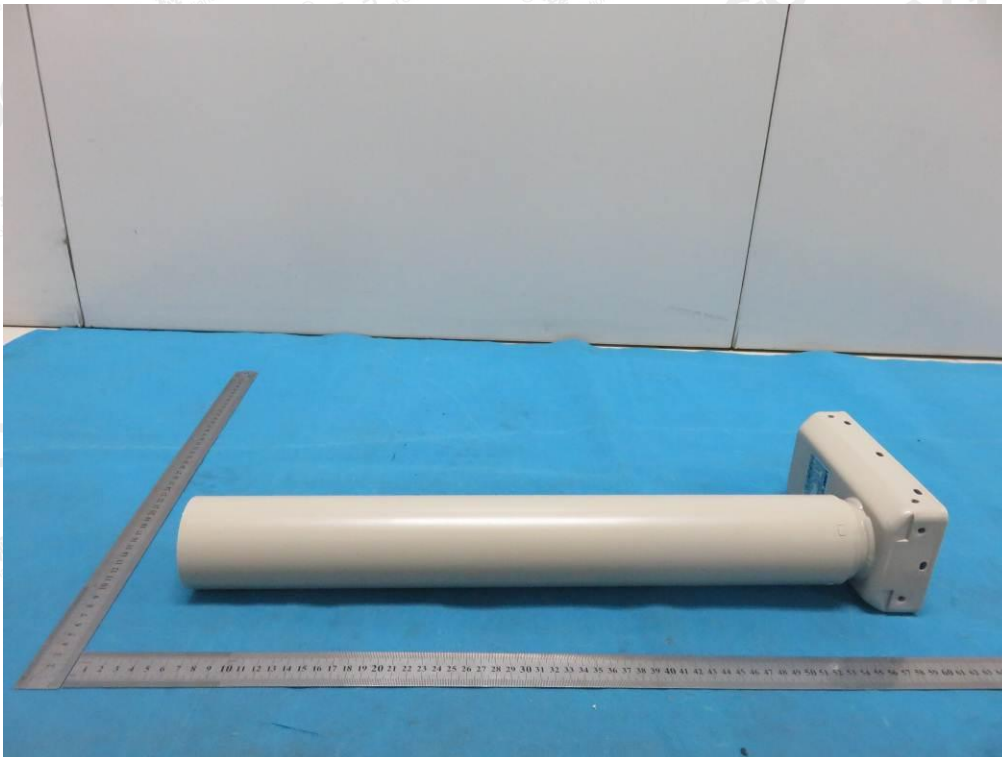


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FRONT VIEW OF EUT

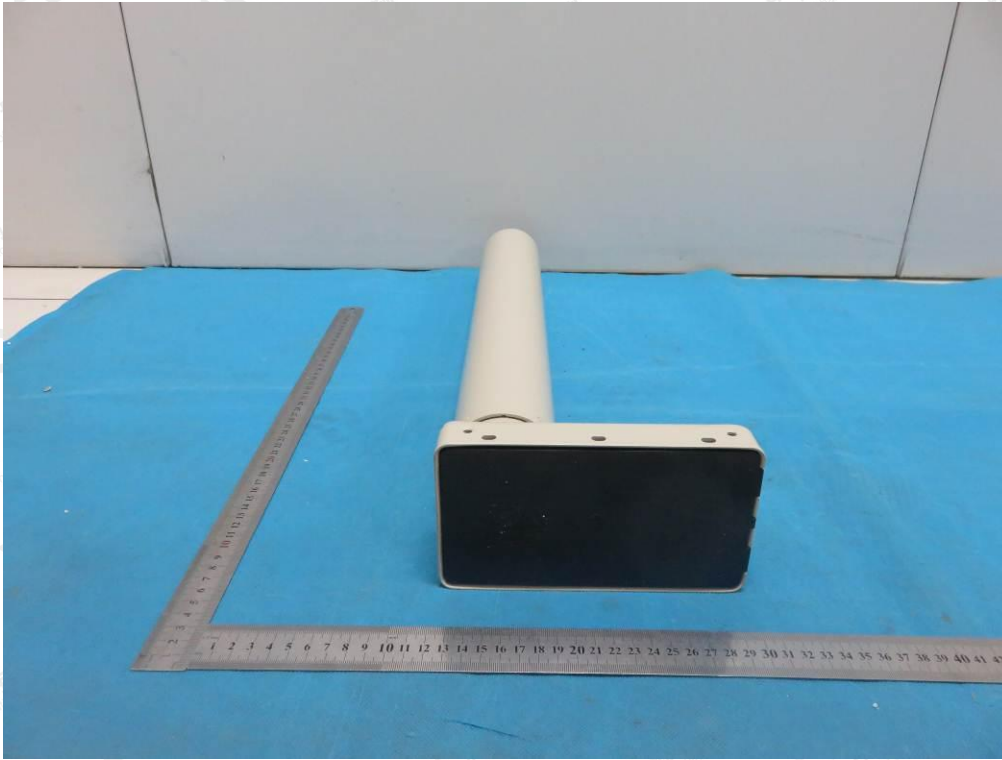


BACK VIEW OF EUT

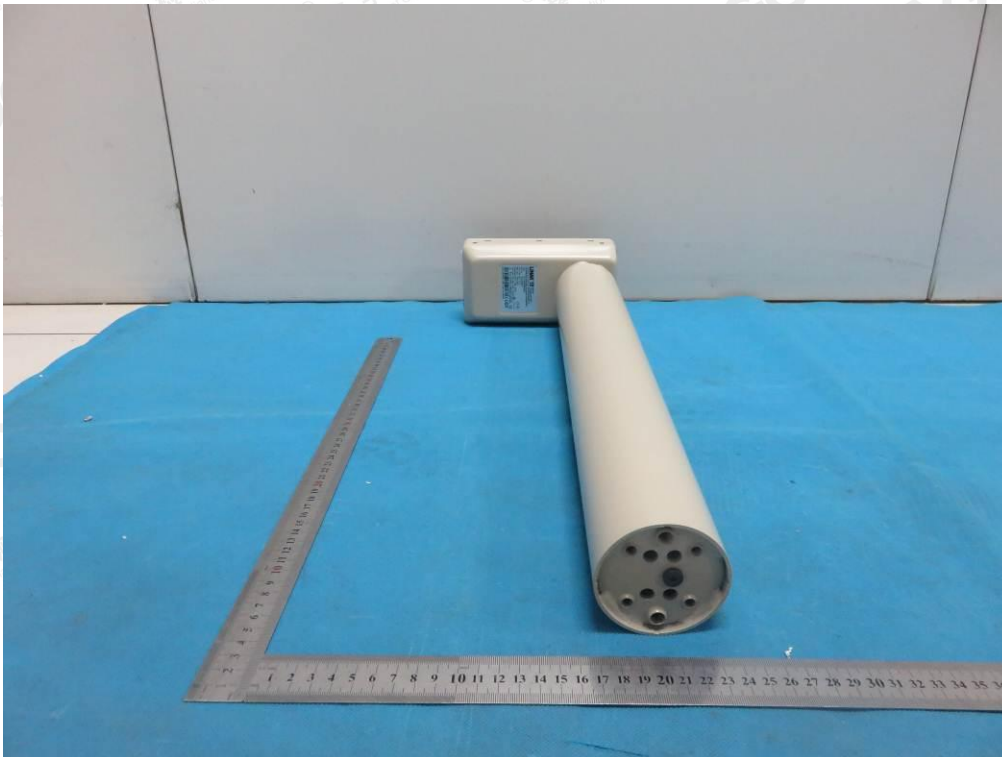


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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (Port)

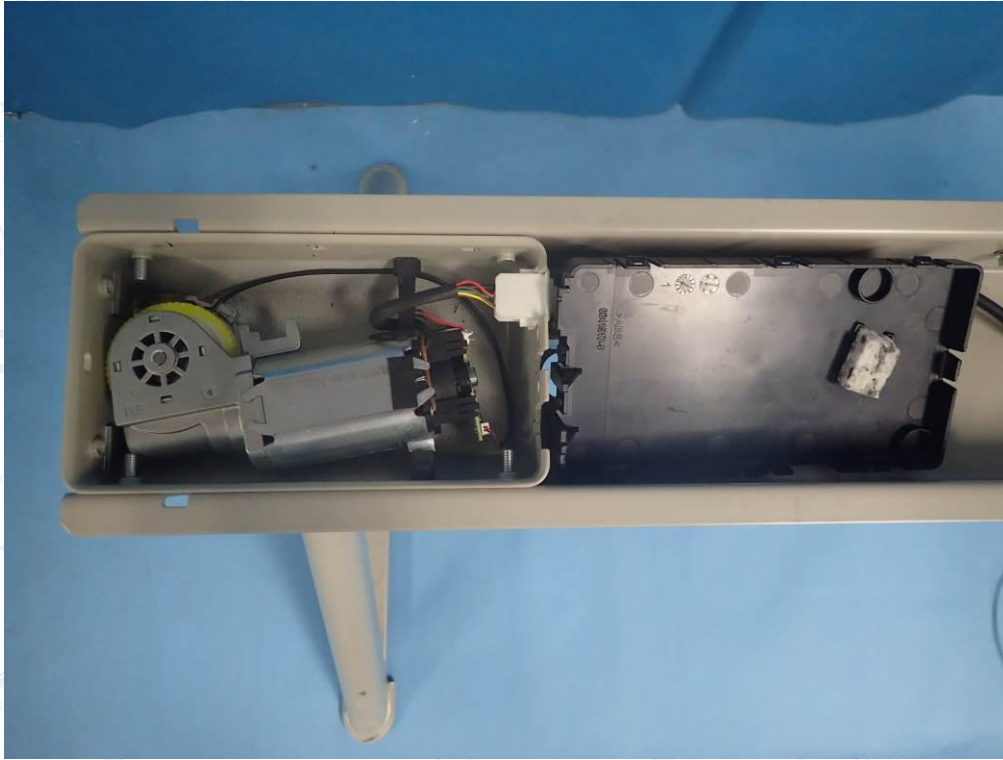


VIEW OF EUT (Local)



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OPEN VIEW OF EUT



Adapter

VIEW OF ADAPTER 1



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VIEW OF ADAPTER 2



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