



## Radio Test Report (BT LE)

**Report No.:** RJ191016D01-1

**Test Model:** KB7120Wc

**Received Date:** Oct. 16, 2019

**Test Date:** Oct. 30, 2019

**Issued Date:** Nov. 1, 2019

**Applicant:** Chicony Electronics Co., Ltd.

**Address:** No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241, Taiwan(R.O.C.)

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan



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Release Control Record

Issue No.	Description	Date Issued
RJ191016D01-1	Original release.	Nov. 1, 2019



## 1 Certificate of Conformity

**Product:** Wireless Keyboard

**Brand:** DELL

**Test Model:** KB7120Wc

**Sample Status:** Engineering sample

**Applicant:** Chicony Electronics Co., Ltd.

**Test Date:** Oct. 30, 2019

**Standards:** ARIB STD-T66 (V3.7),  
MIC No.88(2004) Test method of specified radio equipments  
Annex no. 43 Article 2 paragraph 1 item (19)

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**

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Annie Chang / Senior Specialist

**Date:**

Nov. 1, 2019

**Approved by :**

*Rex Lai*  
Rex Lai / Associate Technical Manager

**Date:**

Nov. 1, 2019



## 2 Summary of Test Results

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report Reference	Parameter	Test Results (Note)
<b>General Provisions</b>				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.3	Spurious emissions	C
<b>Transmitting Equipment</b>				
F	--	4.4	Antenna power	C
--	--	--	SAR	NA
<b>Transmitting Antenna</b>				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
<b>Receiving Equipment</b>				
G	3.3 (1)	4.5	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
<b>Operating Frequency 2400 to 2483.5MHz</b>				
--	3.7 (1)	3.2	High Frequency	C
--	3.7 (1)	3.4	Modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	Absolute gain of transmitting antenna	C
--	3.6 (2)	--	Angular width of principal radiation (AWPR)	NA
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	--	Spreading bandwidth	NA
--	3.2 (9)	--	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.6	Interference Prevention Function	C
--	3.4.1(3)	--	Carrier Sense Capability	NA
Note: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.





## 2.1 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 23, 2019	Sep. 22, 2020	ETC
ROHDE & SCHWARZ Signal Generator	SMR 40	100231	Jul. 1, 2019	Jun. 30, 2020	ETC
Anritsu Power Sensor	MA2411B	0738404	Apr. 16, 2019	Apr. 15, 2020	ETC
Anritsu Power Meter	ML2495A	0842014	Apr. 16, 2019	Apr. 15, 2020	ETC
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 11, 2019	Jun. 10, 2020	ETC
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 30, 2019	Jul. 29, 2020	ETC
KEYSIGHT MXG Vector Signal Generator	N5182B	MY53052658	May 20, 2019	May 19, 2020	ETC

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

## 2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in TR 100 028-1.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Parameter	Uncertainty
Occupied Bandwidth	206.50 Hz
Spurious emissions	3.93 dB
Output power density	1.11 dB
Out of band radiated power	3.93 dB
Frequency Tolerance	603.76 Hz

## 2.3 Modification Record

There were no modifications required for compliance.



### 3 General Information

#### 3.1 General Description of EUT

Product	Wireless Keyboard
Brand	DELL
Test Model	KB7120Wc
Status of EUT	Engineering sample
Nominal Voltage	3.0Vdc from batteries
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Rated RF Output Power Density	1 mW
Conducted RF Output Power Density	0.942mW
Radiated RF Output Power Density	0.782mW
Antenna Type	PCB antenna with -0.81dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



### 3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
<b>0</b>	<b>2402</b>	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	<b>19</b>	<b>2440</b>	29	2460	<b>39</b>	<b>2480</b>

Note: The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

By means of test software provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power setting
0	0
19	0
39	0





### 3.3 Test Conditions

Test Conditions		Voltage (Vdc)
$V_{normal}$	-	3.0
$V_{max.}$	+10%	3.3 (Note)
$V_{min.}$	-10%	2.7 (Note)

Note: After checking the fluctuation of input voltage to the circuit of the radio part (excluding the power supply) of the equipment to be tested, the fluctuation less than +/- 1 % when input voltage from an external supply into the equipment fluctuates +/- 10%, therefore, the test is carried out only at the normal voltage.

### 3.4 Assembly

The EUT use ultrasonic welding to seal the product. Separating the two parts (i.e operating of the housing) was only possible by means of brute force.

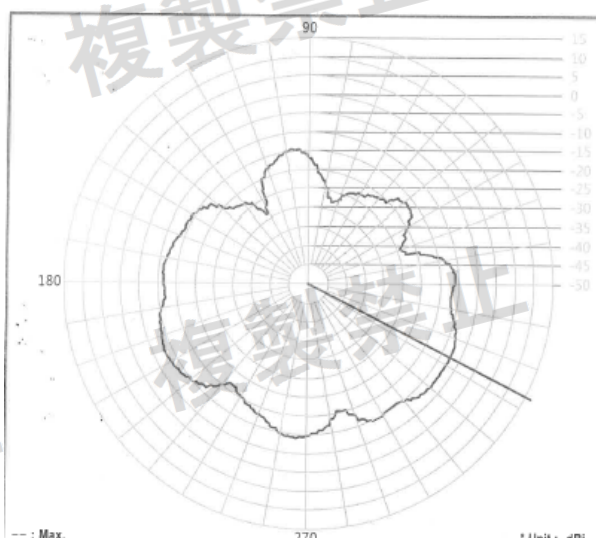
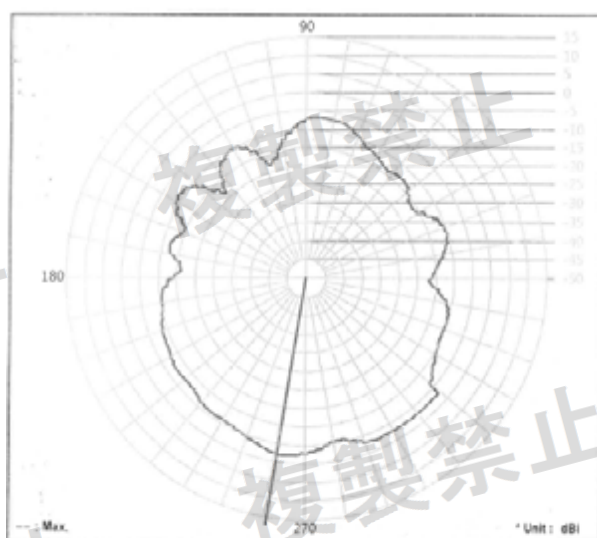


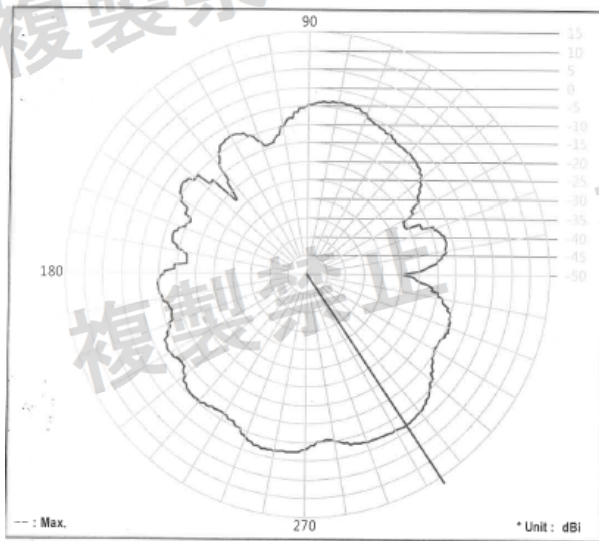
### 3.5 Antenna Specifications

#### 3.5.1 Antenna Gain

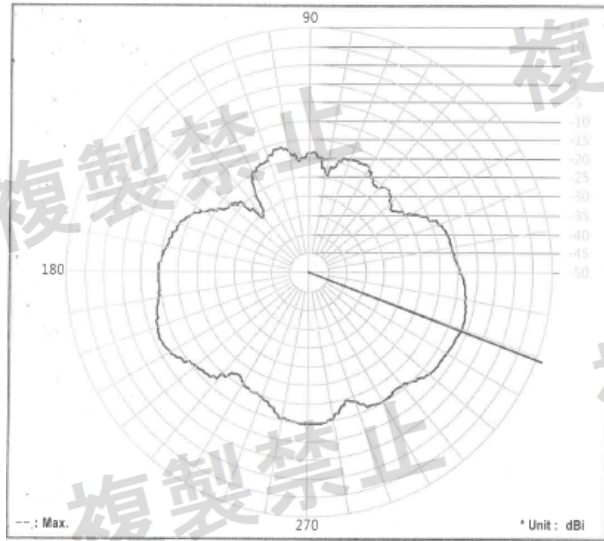
Antenna Type	Max. Gain (dBi)
PCB antenna	-0.81

#### 3.5.2 Antenna Pattern

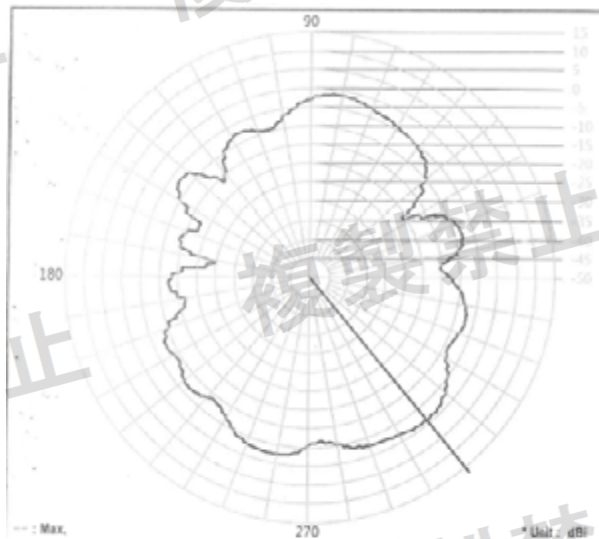




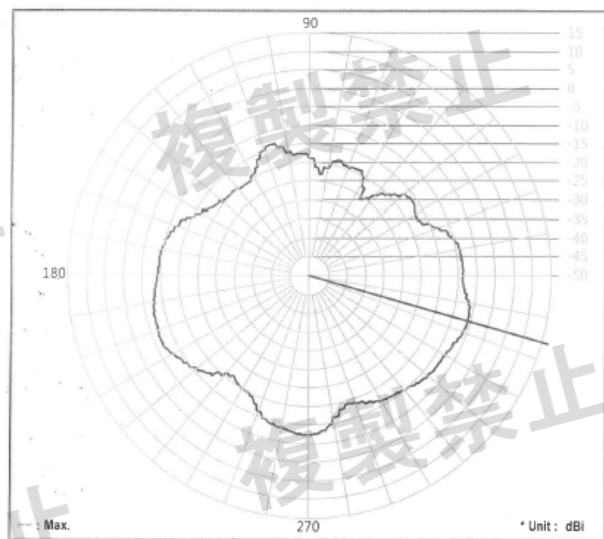
Frequency (MHz): 2440.00 Antenna Polarity: Horizontal Average Value (dBi): -6.62  
Maximum Value (dBi): -1.40 Maximum Value (degree): 304  
Minimum Value (dBi): -24.01 Minimum Value (degree): 0



Frequency (MHz): 2440.00 Antenna Polarity: Vertical Average Value (dBi): -11.33  
Maximum Value (dBi): -6.07 Maximum Value (degree): 339  
Minimum Value (dBi): -31.11 Minimum Value (degree): 130



Frequency (MHz): 2480.00 Antenna Polarity: Horizontal Average Value (dBi): -5.80  
Maximum Value (dBi): -9.81 Maximum Value (degree): 310  
Minimum Value (dBi): -24.78 Minimum Value (degree): 171



Frequency (MHz): 2480.00 Antenna Polarity: Vertical Average Value (dBi): -10.56  
Maximum Value (dBi): -5.44 Maximum Value (degree): 344  
Minimum Value (dBi): -25.53 Minimum Value (degree): 55



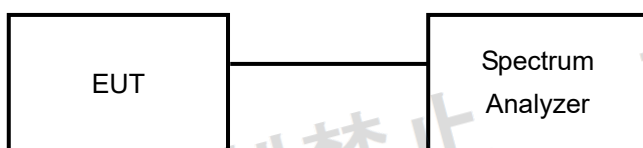
#### 4 Test Results

##### 4.1 Frequency Tolerance Measurement

###### 4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

###### 4.1.2 Test Setup



###### 4.1.3 Test Results

Environmental Conditions		25deg.C, 76% RH					
Channel	Frequency (MHz)	Voltage <sub>normal</sub>		Voltage <sub>max.</sub>		Voltage <sub>min.</sub>	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2402.003850	1.602	2402.003850	1.602	2402.003850	1.602
19	2440	2440.003900	1.598	2440.003800	1.557	2440.003900	1.598
39	2480	2480.003950	1.592	2480.003950	1.592	2480.003950	1.592



## 4.2 Occupied Bandwidth Measurement (99% power bandwidth)

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	<26MHz	-

### 4.2.2 Test Setup



### 4.2.3 Test Results

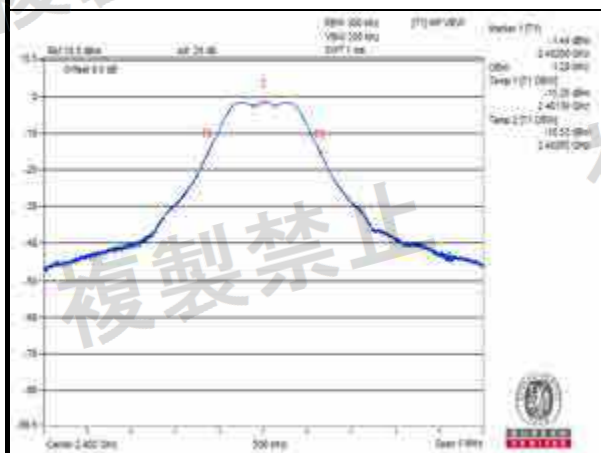
Environmental Conditions		25deg.C, 76% RH		
Channel	Frequency (MHz)	V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
0	2402	1.29	1.29	1.29
19	2440	1.29	1.29	1.29
39	2480	1.29	1.29	1.29

Note: For the test plots please refer to the below pages.

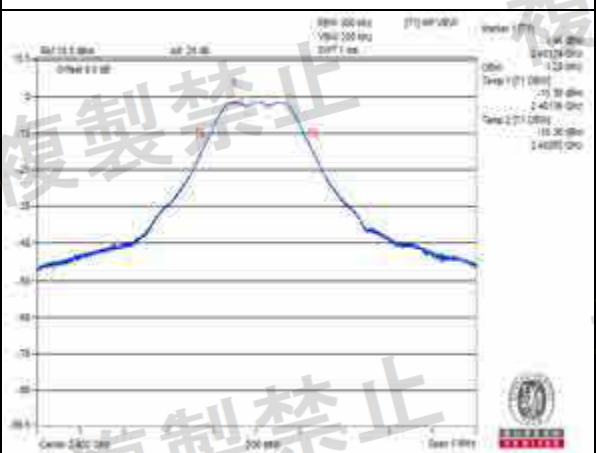




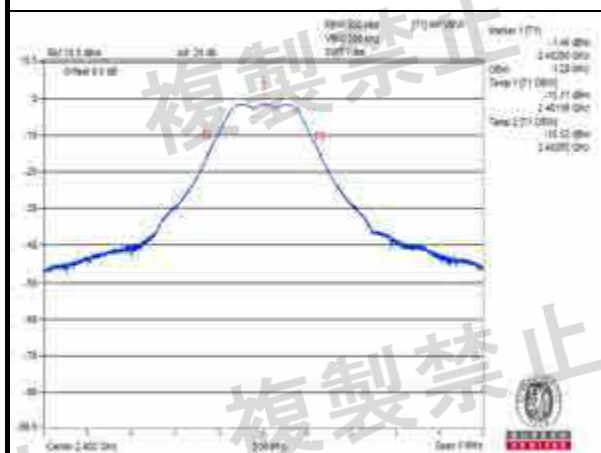
V<sub>normal</sub>



V<sub>max</sub>



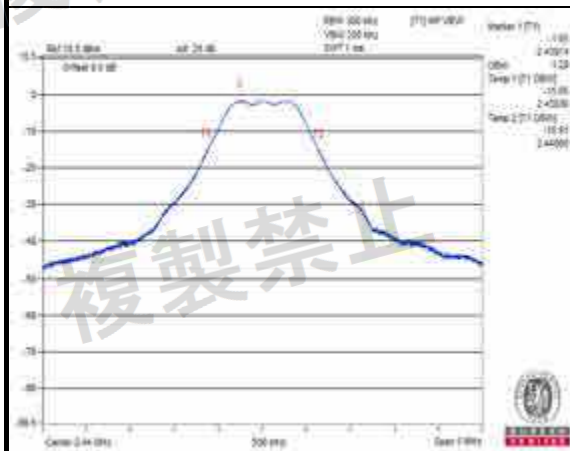
V<sub>min</sub>



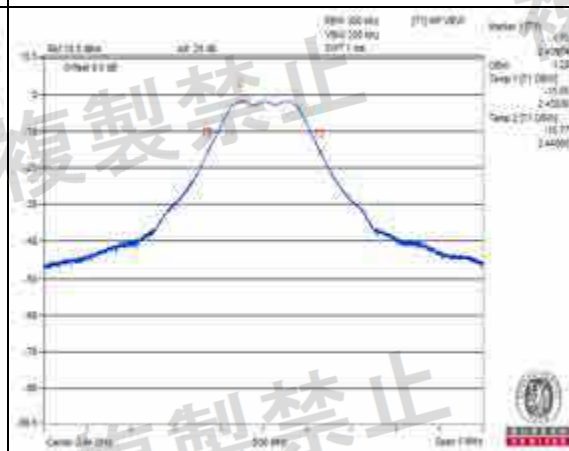
Channel 0



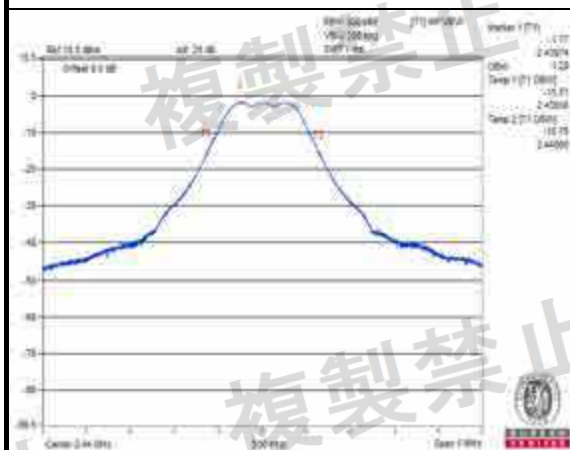
V<sub>normal</sub>



V<sub>max</sub>



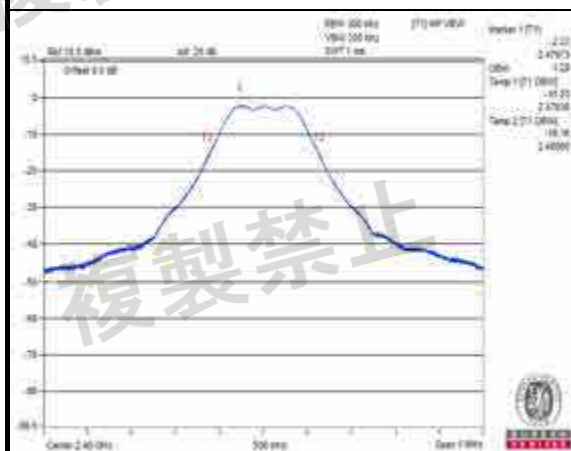
V<sub>min</sub>



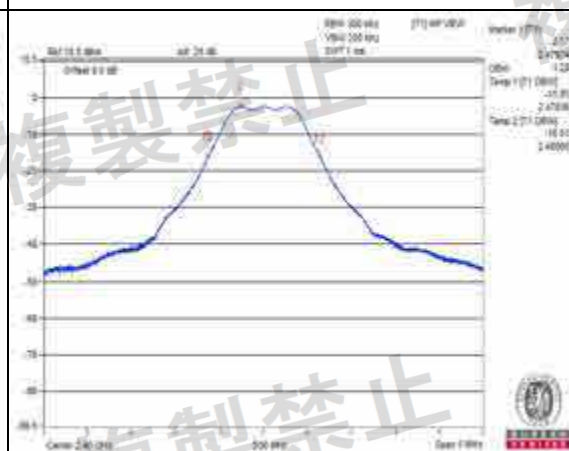
Channel 19



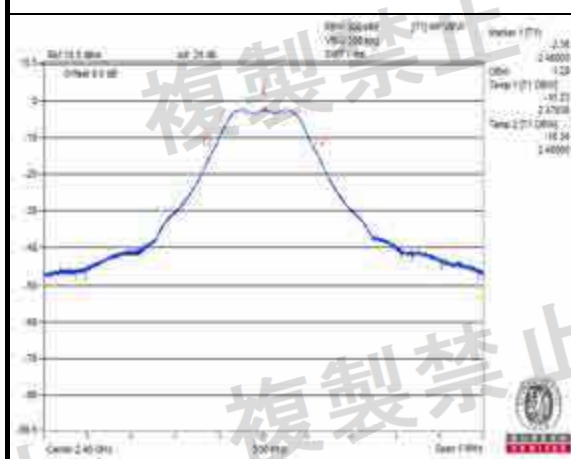
V<sub>normal</sub>



V<sub>max</sub>



V<sub>min</sub>



Channel 39

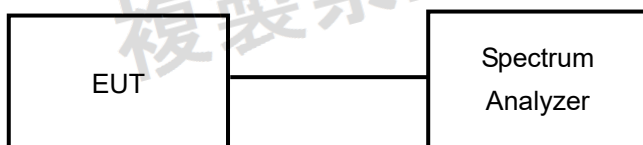


#### 4.3 Spurious Emissions for Transmitter Measurement

##### 4.3.1 Limits of Spurious Emissions

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz to 2387MHz	$\leq 2.5 \text{ uW/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25 \text{ uW/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25 \text{ uW/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5 \text{ uW/MHz}$

##### 4.3.2 Test Setup





#### 4.3.3 Test Results

Environmental Conditions		25deg.C, 76% RH					
Test Channel		CH 0 (2402MHz)		CH 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (uW)	Frequency (MHz)	Measured Value (uW)		
V <sub>normal</sub>	30.0MHz to 1000.0MHz	191.990	0.001189	207.990	0.001178	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2387.000	<b>0.013183</b>	2312.790	0.001941	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2399.980	0.552077	2392.360	<b>0.003373</b>	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2489.190	0.001742	2488.050	0.002704	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4802.300	<b>0.139316</b>	4877.330	<b>0.137404</b>	2.5uW/MHz	Pass
V <sub>max.</sub>	30.0MHz to 1000.0MHz	191.990	0.001114	191.990	0.001050	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2386.300	0.010990	2312.790	<b>0.002265</b>	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2400.000	<b>0.568853</b>	2392.290	0.003228	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2494.900	0.001742	2488.240	0.002685	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4802.300	0.134276	4877.330	0.129718	2.5uW/MHz	Pass
V <sub>min.</sub>	30.0MHz to 1000.0MHz	207.990	<b>0.001197</b>	207.990	<b>0.001180</b>	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2387.000	0.012589	2264.940	0.001945	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2400.000	0.550808	2391.730	0.003148	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2490.070	<b>0.001750</b>	2488.210	<b>0.003388</b>	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4802.300	0.135519	4877.330	0.131522	2.5uW/MHz	Pass



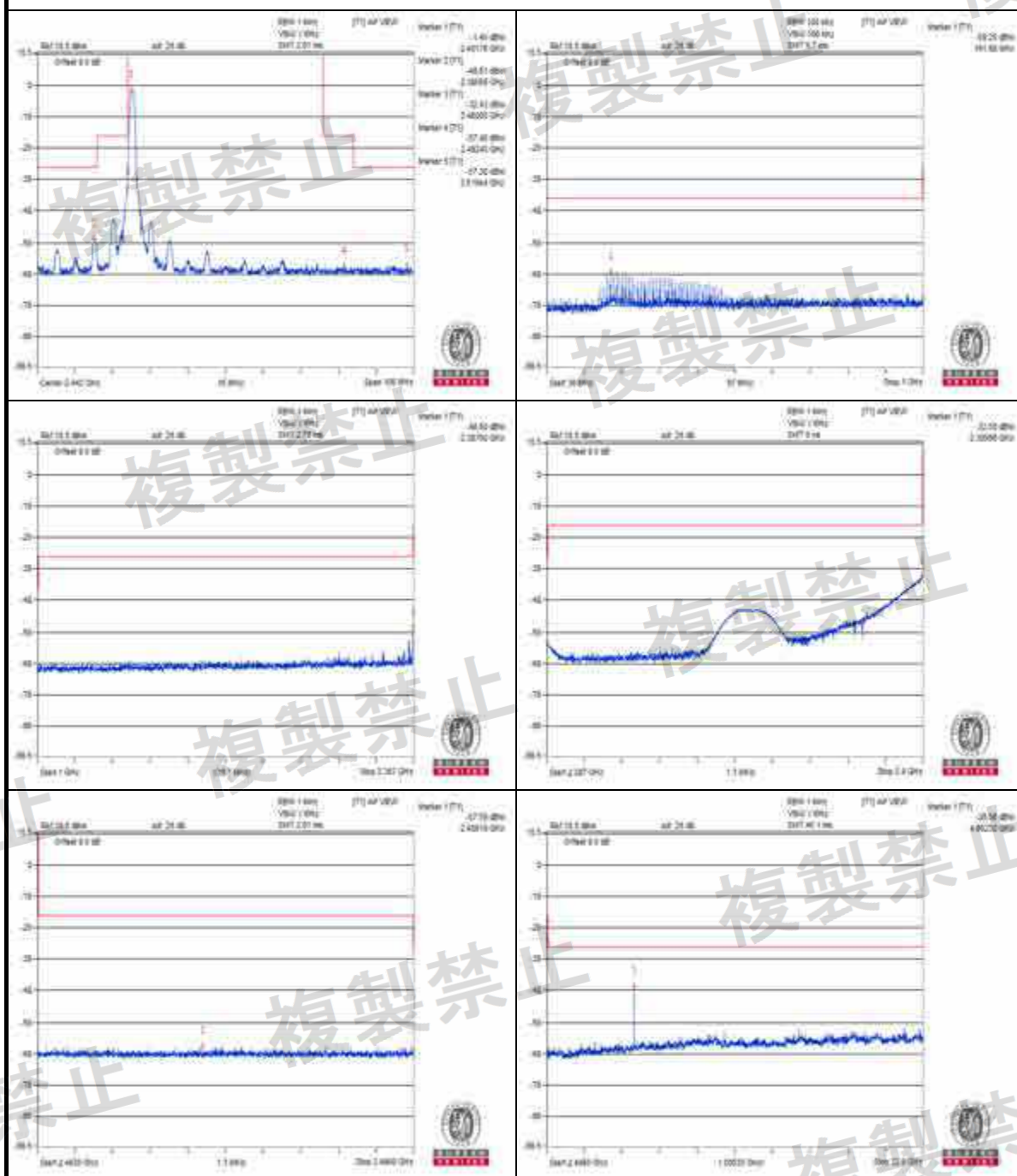


Environmental Conditions		25deg.C, 76% RH			
Test Channel		CH 39 (2480MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (uW)		
V <sub>normal</sub>	30.0MHz to 1000.0MHz	207.990	0.001140	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2353.010	0.002056	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2392.690	0.001578	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.510	0.068077	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4957.360	0.144877	2.5uW/MHz	Pass
V <sub>max.</sub>	30.0MHz to 1000.0MHz	207.990	0.001202	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2353.010	0.002080	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2398.310	0.001786	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.500	0.062661	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4957.360	0.153815	2.5uW/MHz	Pass
V <sub>min.</sub>	30.0MHz to 1000.0MHz	207.990	0.001245	0.25uW/100kHz	Pass
	1000.0MHz to 2387MHz	2353.010	0.002203	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2396.710	0.001690	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.590	0.071285	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	4957.360	0.157761	2.5uW/MHz	Pass

**NOTE:** The spectrum plots are attached on the following pages.



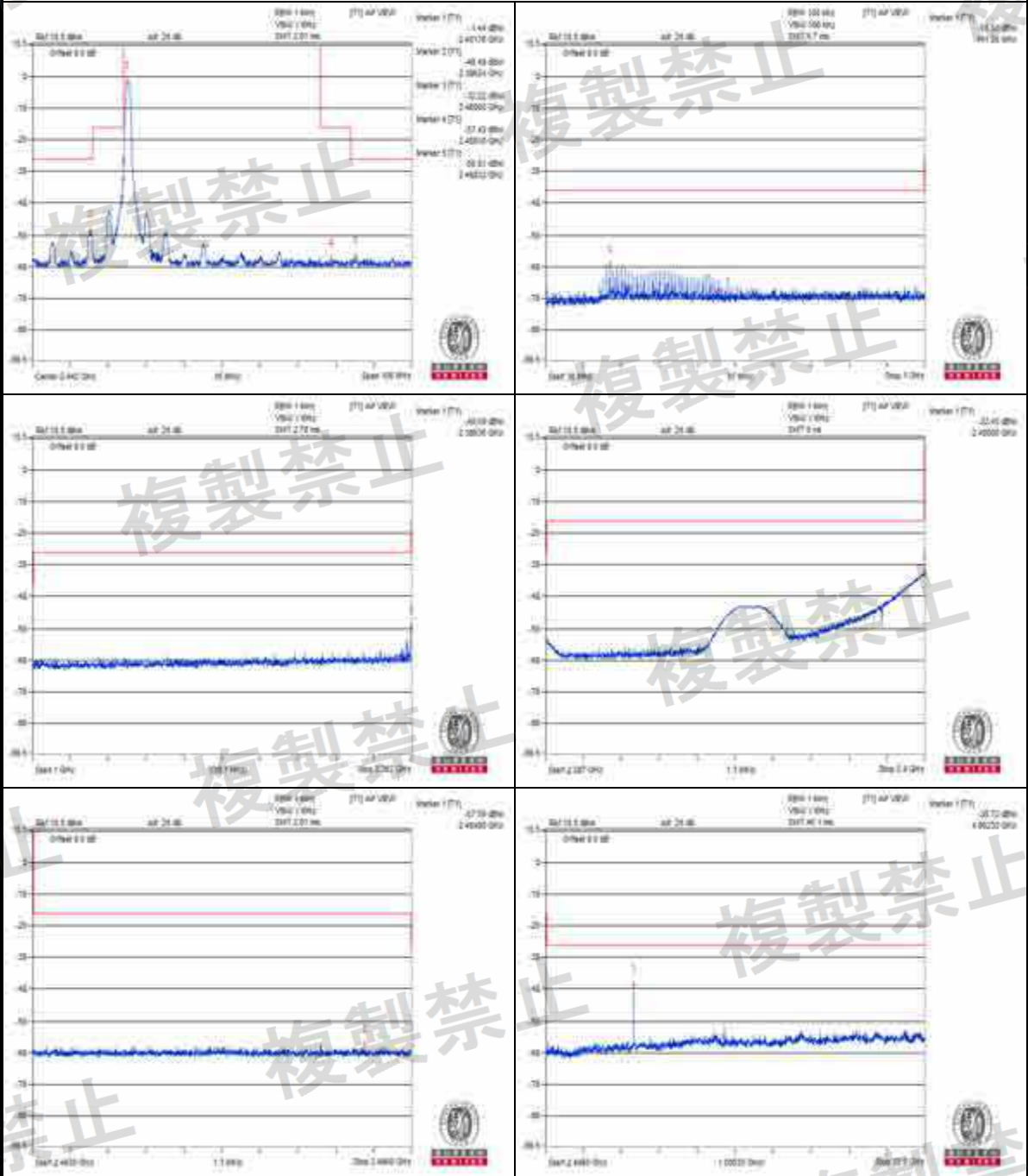
V<sub>normal</sub>



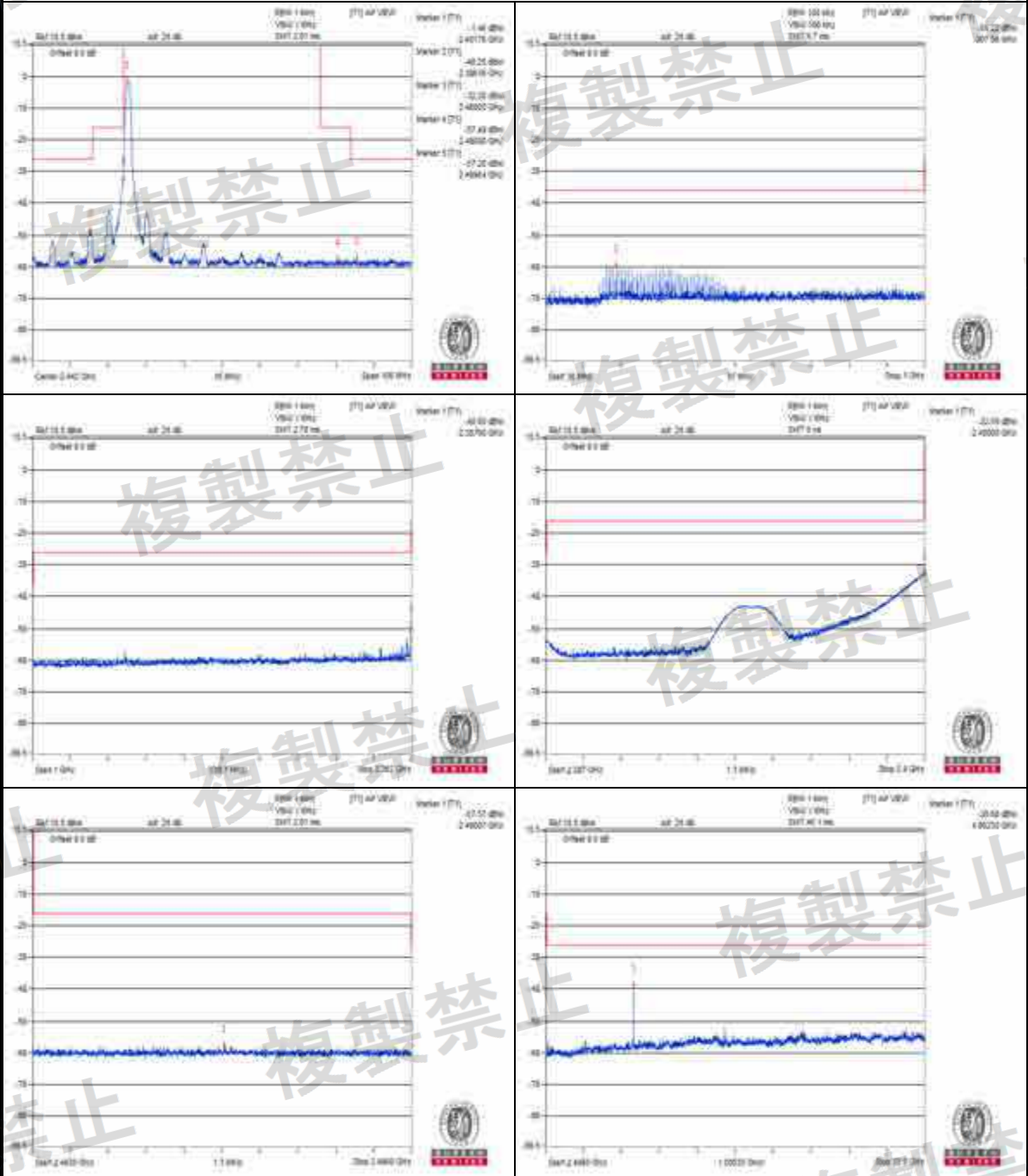
Channel 0



V<sub>max</sub>.



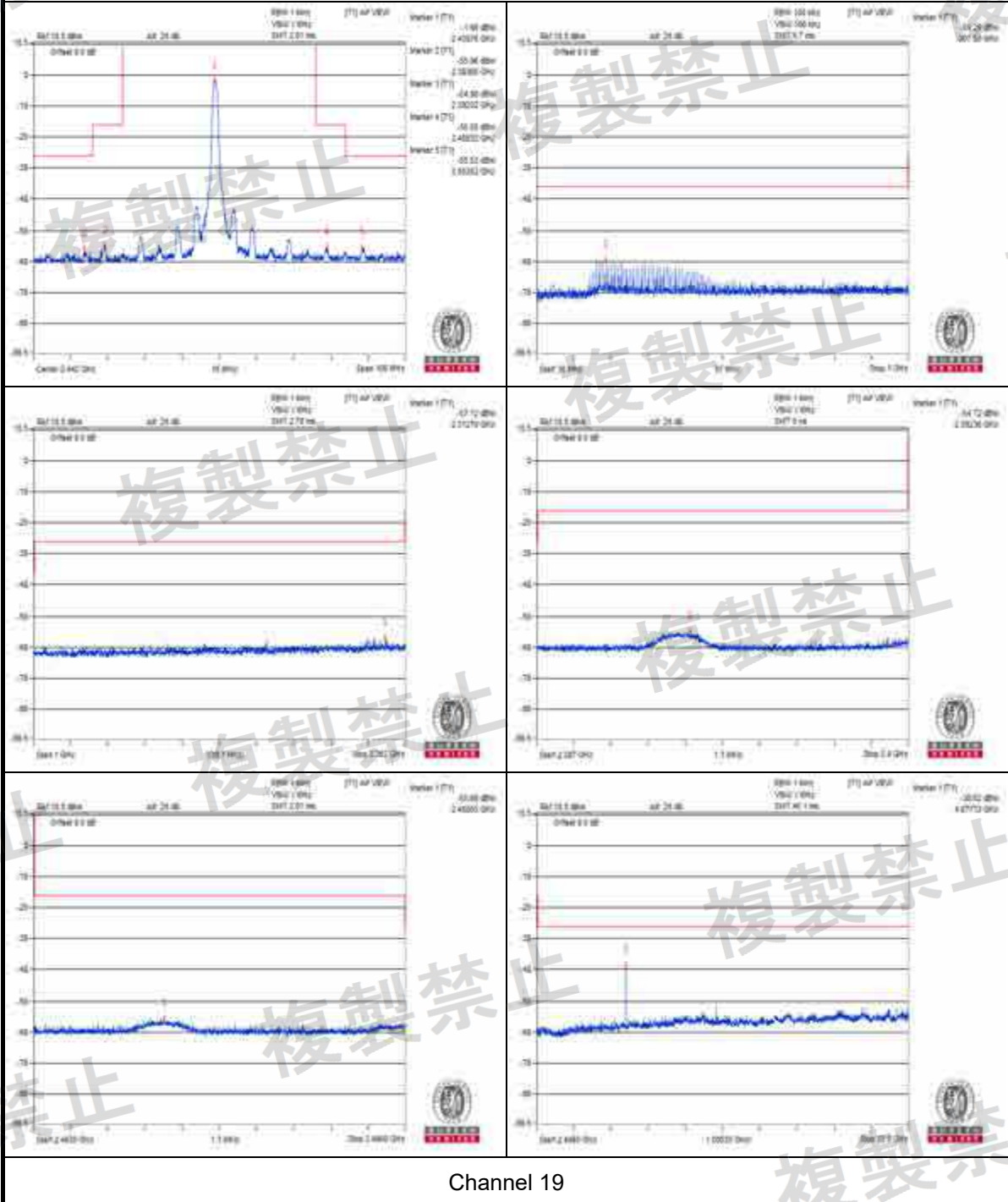
V<sub>min</sub>.



Channel 0

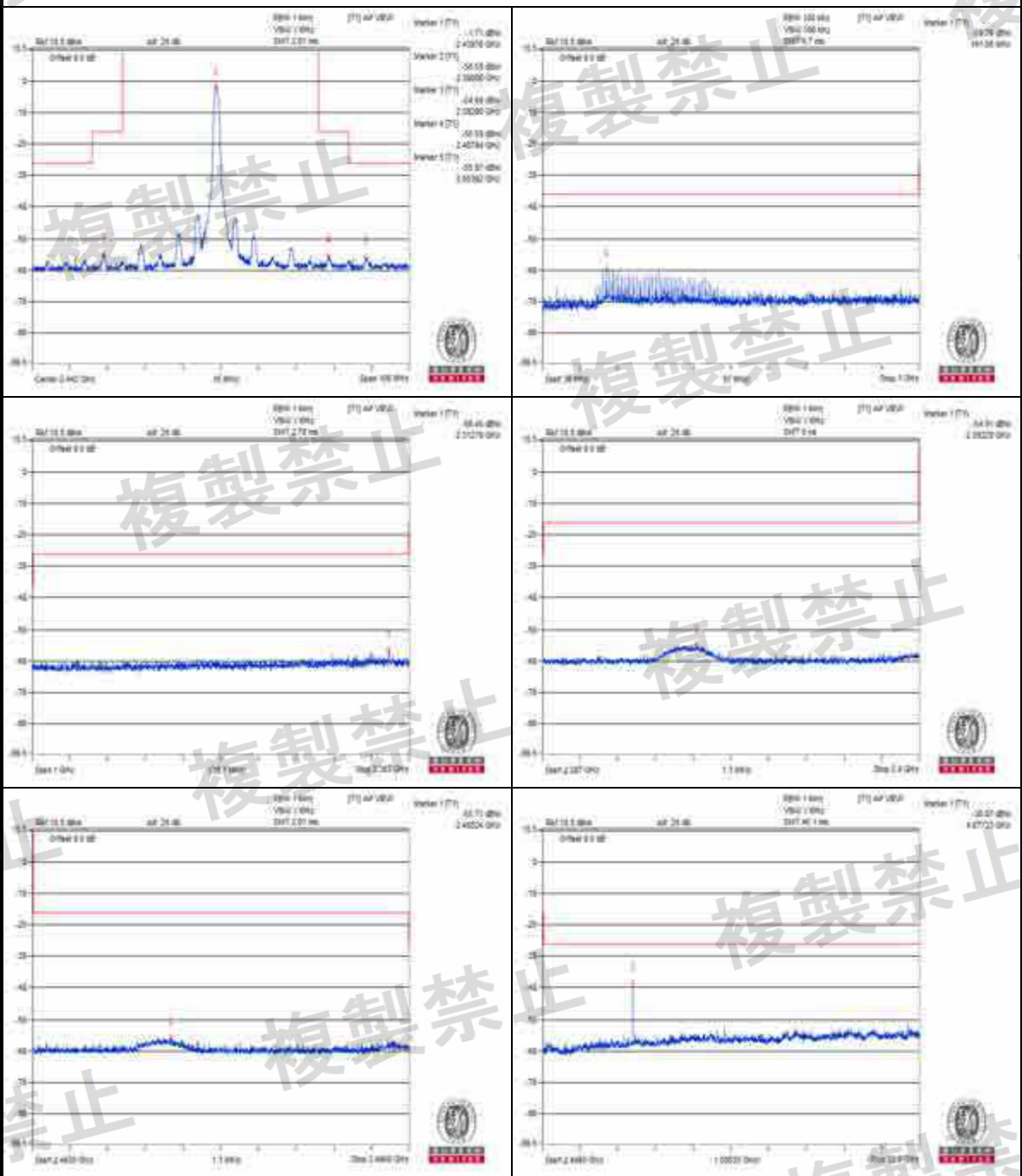


V<sub>normal</sub>





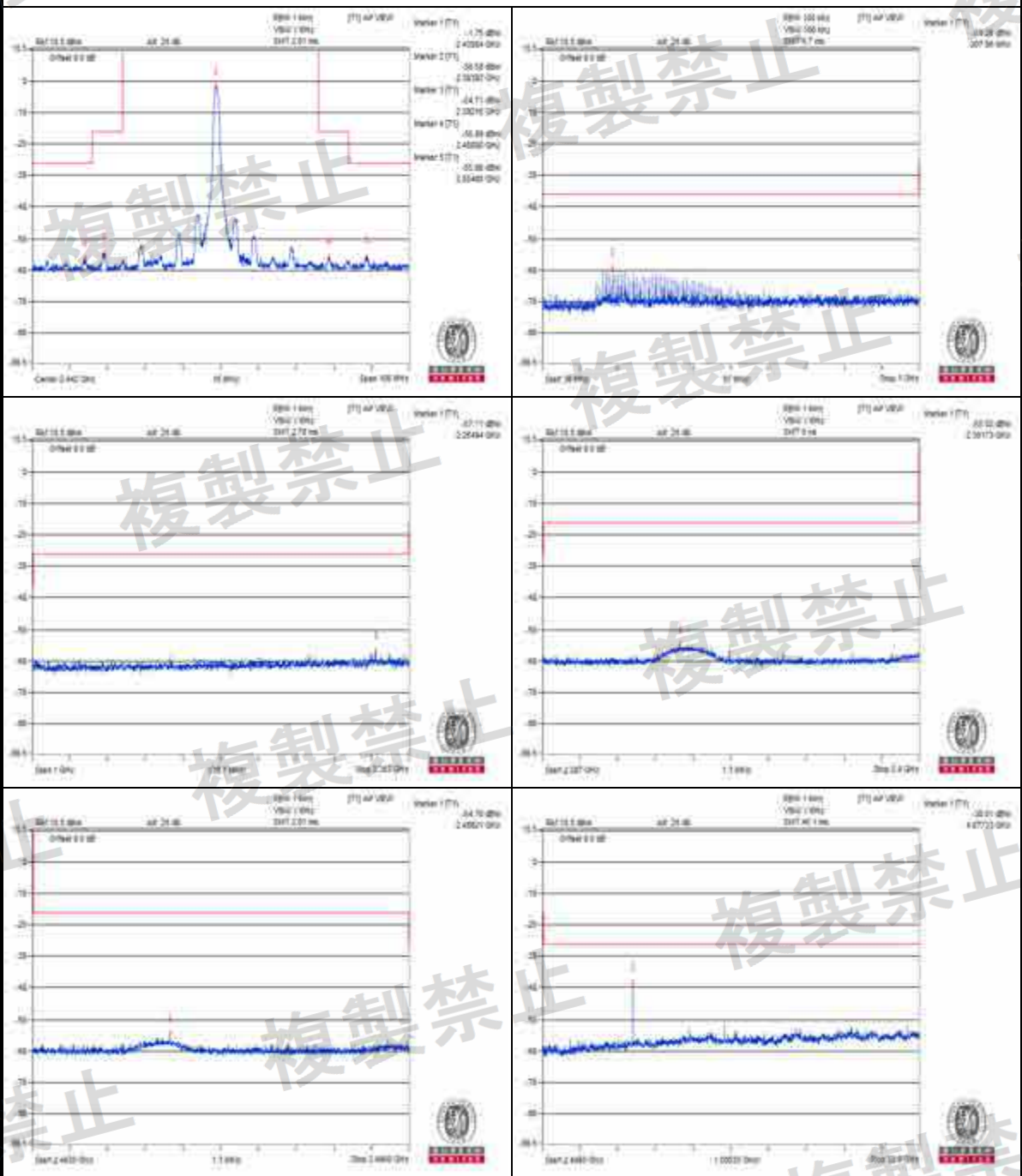
V<sub>max</sub>.



Channel 19

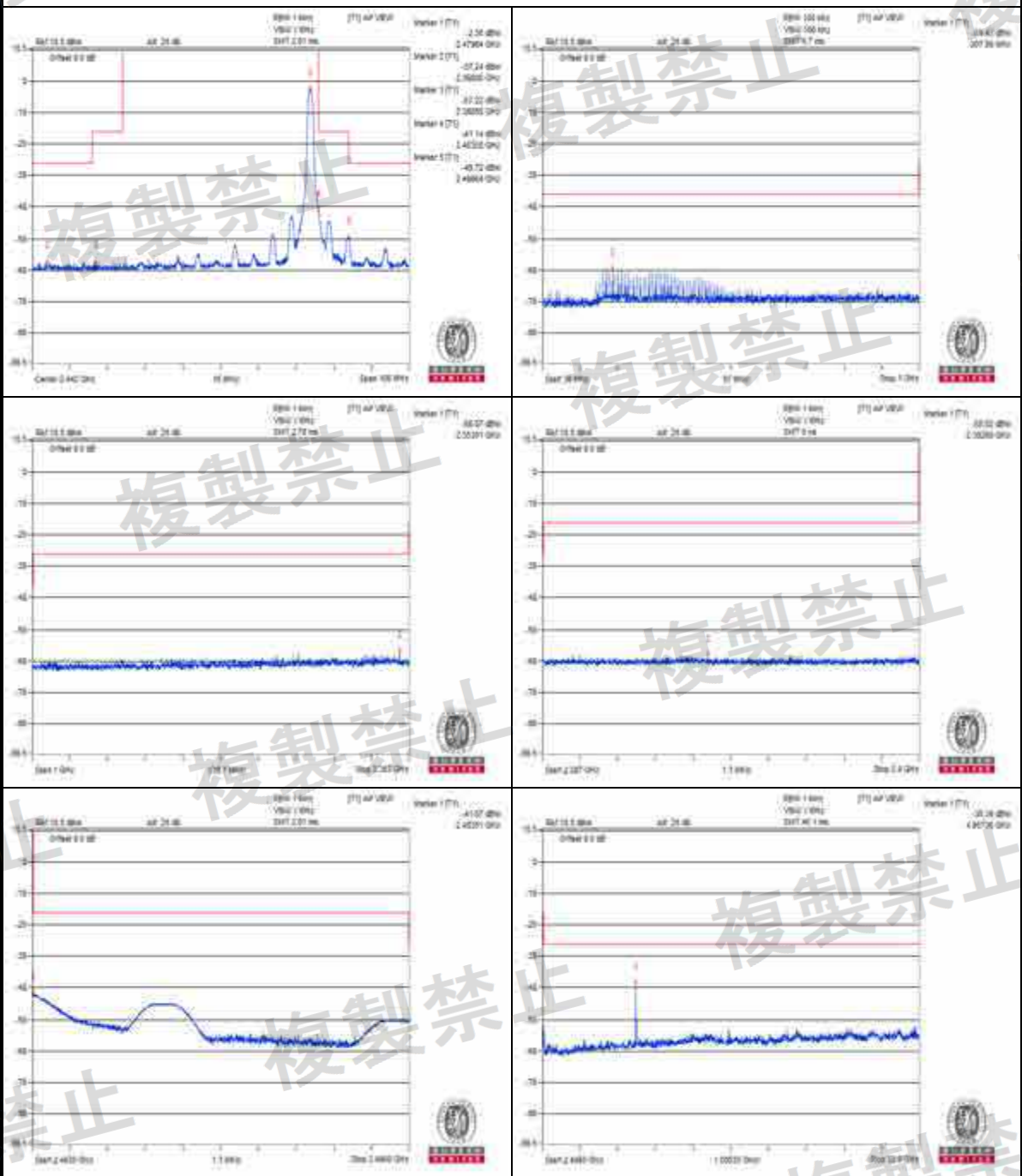


V<sub>min</sub>



Channel 19

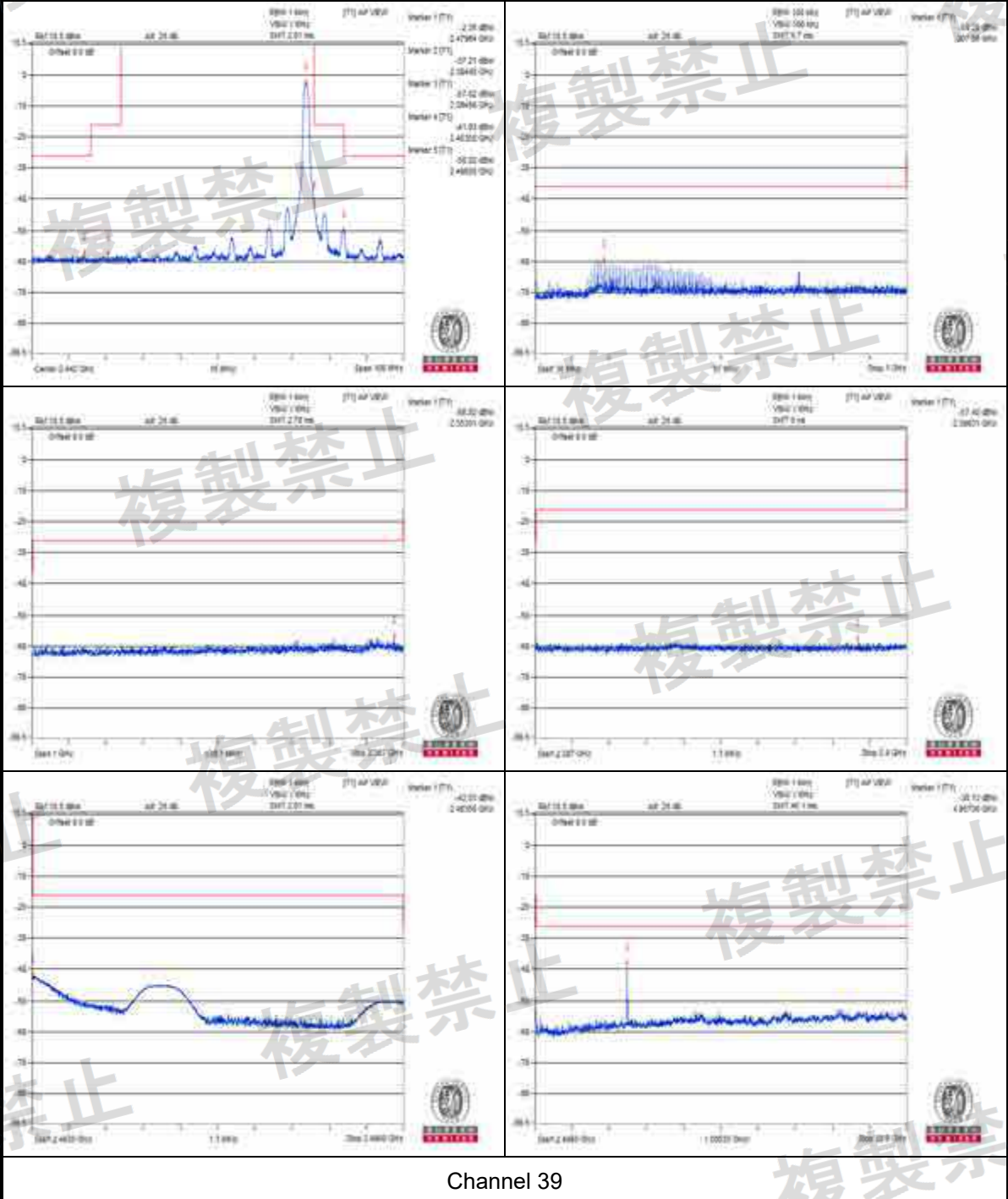
V<sub>normal</sub>



Channel 39

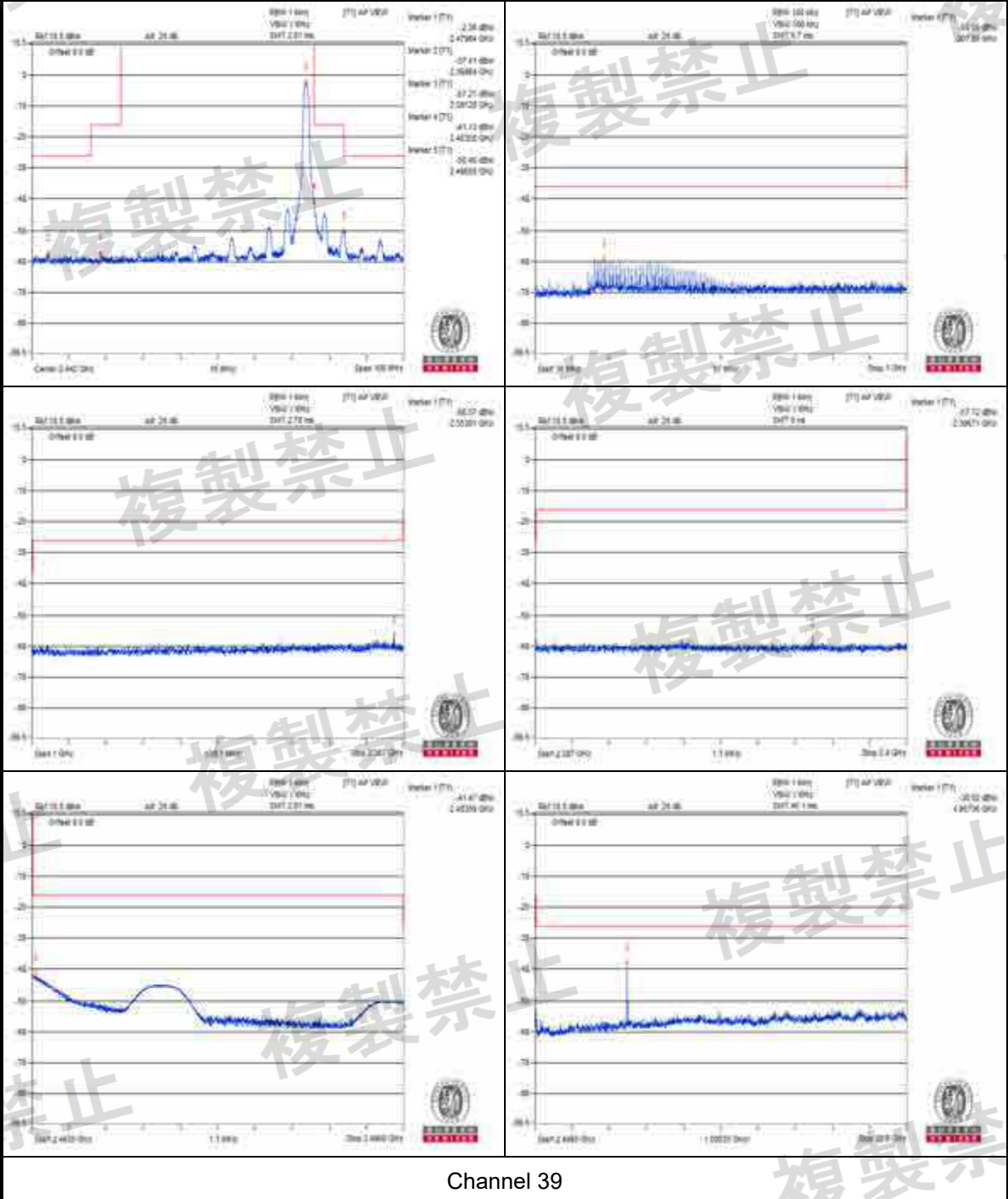


V<sub>max</sub>.





V<sub>min</sub>.







#### 4.4 Antenna Power Measurement

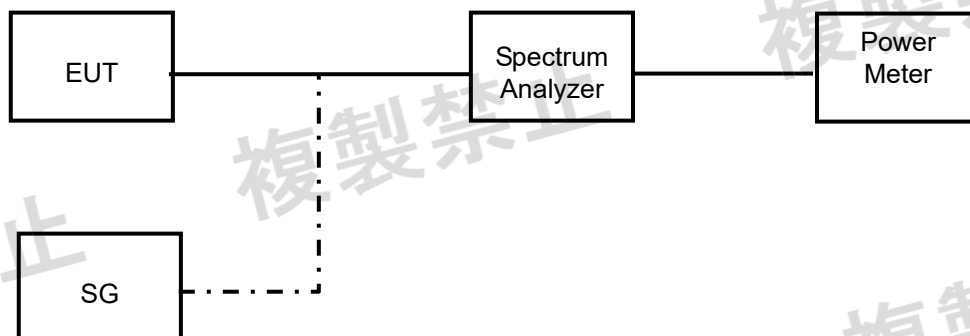
##### 4.4.1 Limits of Antenna Power

Modulation Method	Frequency Band Used	Antenna Power (Max.)	EIRP Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.203 mW/MHz ~ 82.03 mW/MHz)

Note:

1. Occupied bandwidth is less than 26MHz
2. Occupied bandwidth is more than 26MHz and less than 38MHz
3. EIRP limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360/A degrees or less, where  $A = \text{EIRP} / (2.14 \text{ dBi} + \text{Antenna Power (limit)})$ .
4. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

##### 4.4.2 Test Setup





#### 4.4.3 Test Results

Environmental Conditions		25 deg.C, 76% RH			
Channel Number	Frequency (MHz)	Conducted RF Output Power Density (mW)			
		Normal Voltage	Max. Voltage	Min. Voltage	Max. Limit (mW/MHz)
		3.0Vdc	3.3Vdc	2.7Vdc	
0	2402	0.942	0.938	0.92	10
19	2440	0.879	0.861	0.847	10
39	2480	0.764	0.791	0.731	10
Rated power		1mW			
Tolerance of antenna power		0.2mW ~ 1.2mW			

#### PCB antenna with -0.81dBi gain

Environmental Conditions		25 deg.C, 76% RH			
Channel Number	Frequency (MHz)	Radiated RF Output Power Density (mW)			
		Normal Voltage	Max. Voltage	Min. Voltage	Max. Limit (mW/MHz)
		3.0Vdc	3.3Vdc	2.7Vdc	
0	2402	0.782	0.778	0.763	16.368
19	2440	0.729	0.715	0.703	16.368
39	2480	0.634	0.656	0.607	16.368

Note: The value of radiated RF output densities are "calculated" values.



#### 4.5 Spurious Emissions for Receiver

##### 4.5.1 Limits of Spurious Emissions For Receiver

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

##### 4.5.2 Test Setup



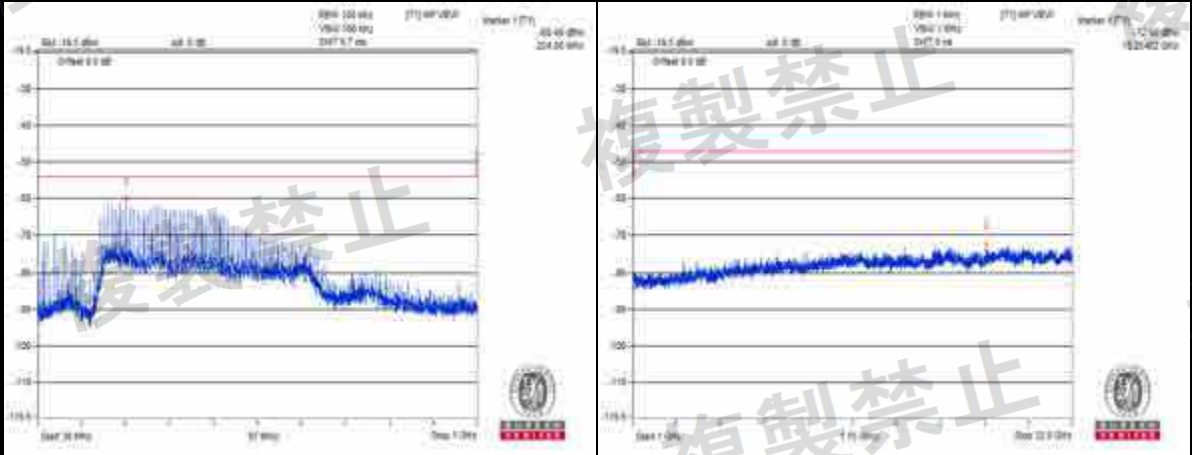


#### 4.5.3 Test Result

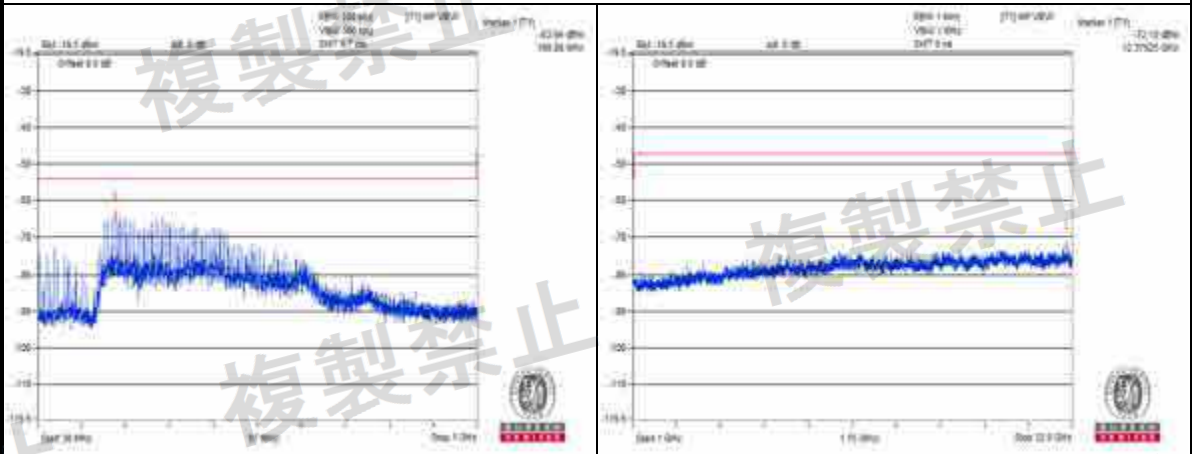
Environmental Conditions		25deg.C, 76% RH					
Test Channel		CH 0 (2402MHz)		CH 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value (nW)	Frequency (MHz)	Measured Value (nW)		
V <sub>normal</sub>	Below 1GHz	224.000	0.893305	224.000	0.810961	4nW/100kHz	Pass
	Above 1GHz	10254.620	0.056494	4878.370	0.119950	20nW/MHz	Pass
V <sub>max.</sub>	Below 1GHz	199.990	0.403645	224.000	0.939723	4nW/100kHz	Pass
	Above 1GHz	12379.250	0.061660	4878.370	0.131220	20nW/MHz	Pass
V <sub>min.</sub>	Below 1GHz	199.990	0.404576	183.980	0.883080	4nW/100kHz	Pass
	Above 1GHz	10395.500	0.057943	4878.370	0.123595	20nW/MHz	Pass
Test Channel		CH 39 (2480MHz)				Limit	Result
Test Condition	Frequency Range	Frequency (MHz)		Measured Value (nW)			
V <sub>normal</sub>	Below 1GHz	183.980		0.881049		4nW/100kHz	Pass
	Above 1GHz	4958.870		0.273527		20nW/MHz	Pass
V <sub>max.</sub>	Below 1GHz	183.980		0.785236		4nW/100kHz	Pass
	Above 1GHz	4958.870		0.255859		20nW/MHz	Pass
V <sub>min.</sub>	Below 1GHz	224.000		0.889201		4nW/100kHz	Pass
	Above 1GHz	4958.870		0.272270		20nW/MHz	Pass

**NOTE:** The spectrum plots are attached on the following pages.

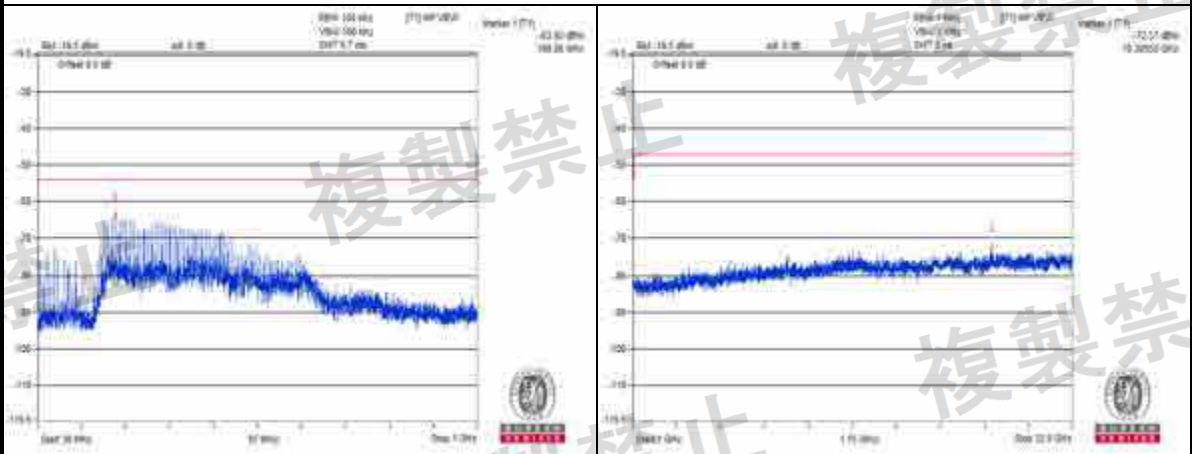
V<sub>normal</sub>



V<sub>max</sub>



V<sub>min</sub>

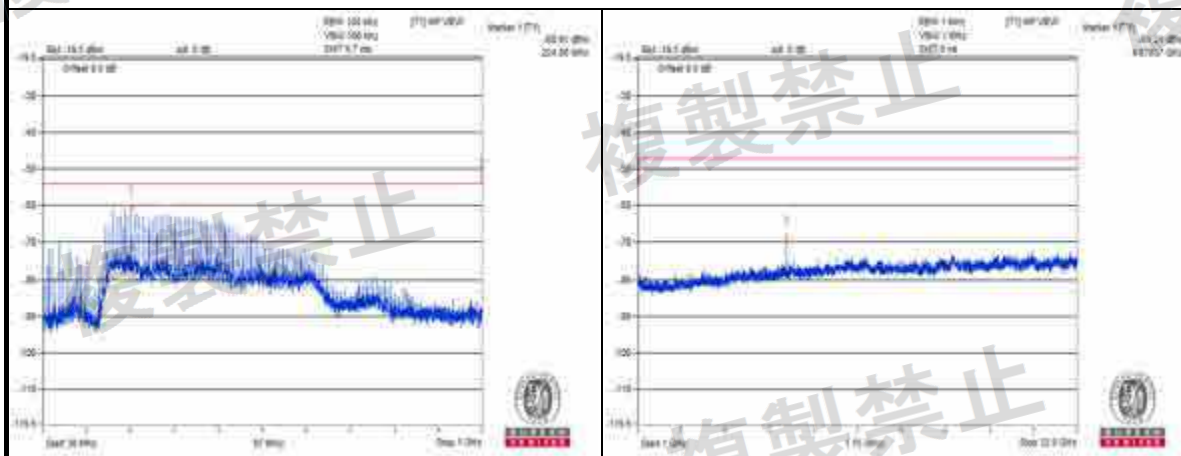


Channel 0

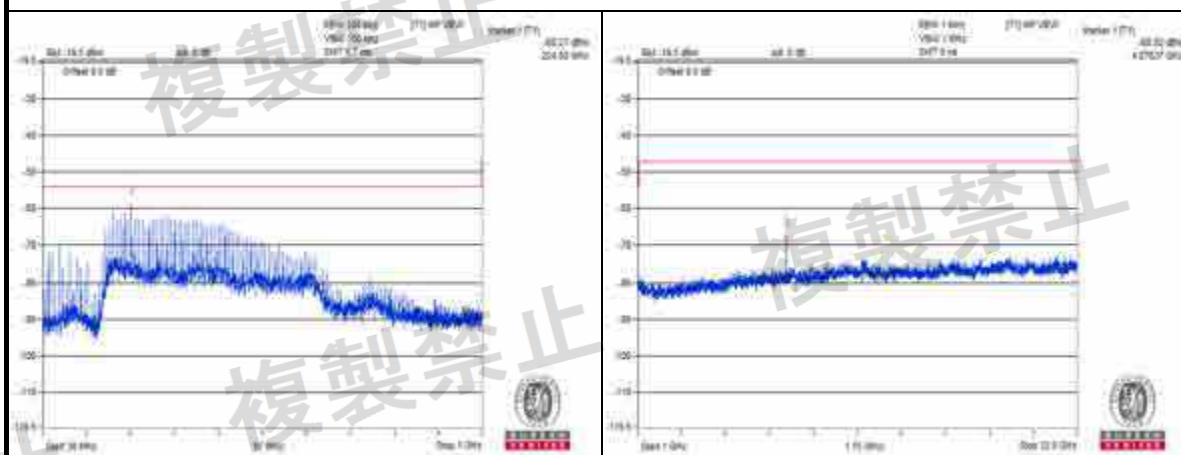




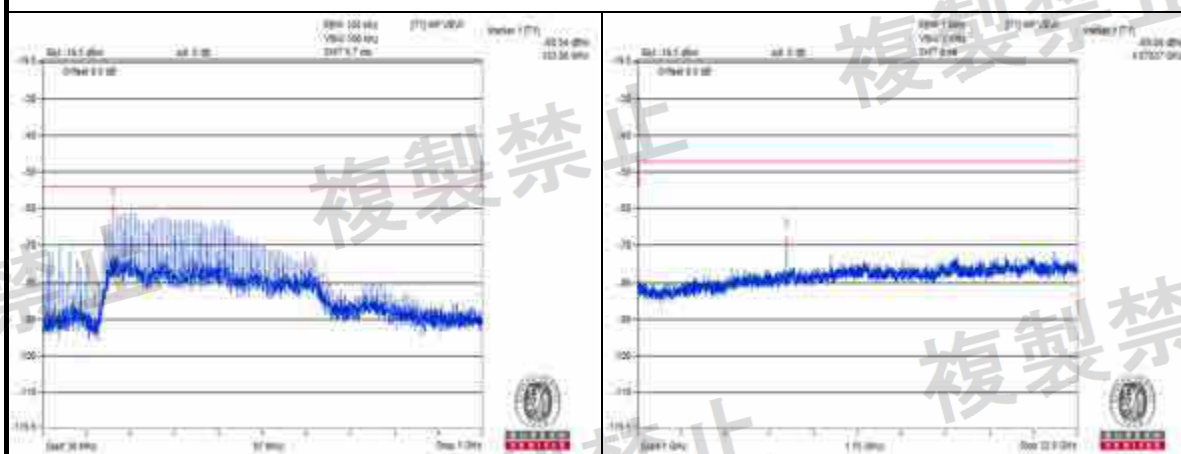
V<sub>normal</sub>



V<sub>max</sub>



V<sub>min</sub>



Channel 19

Report Format Version: 6.1.1

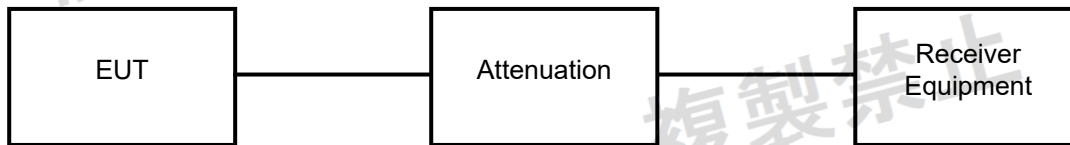


#### 4.6 Interference Prevention Function

##### 4.6.1 Limits of Interference Prevention Function

NA

##### 4.6.2 Test Setup



##### 4.6.3 Test Results

Environmental Conditions	25deg.C, 76% RH
Link Mode	Test Result
Bluetooth	PASS

## 5 Photographs of the Test Configuration





## Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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