



## Radio Test Report (BT-LE)

**Report No.:** RJ171204E07F-3

**Test Model:** WHW01

**Series Model:** A01

**Received Date:** June 06, 2018

**Test Date:** June 08, 2018

**Issued Date:** June 28, 2018

**Applicant:** Belkin International, Inc.

**Address:** 12045 East Waterfront Drive, Playa Vista, CA. 90094, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan R.O.C.

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan R.O.C.



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# Release Control Record

Issue No.	Description	Date Issued
RJ171204E07F-3	Original release.	June 28, 2018



# 1 Certificate of Conformity

**Product:** Velop

**Brand:** Linksys

**Test Model:** WHW01

**Series Model:** A01

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Belkin International, Inc.

**Test Date:** June 08, 2018

**Standards:** ARIB STD-T66 (V3.7), MIC notice 88 Appendix 43  
Certification Ordinance Article 2-1-19

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 EMC characteristics under the conditions specified in this report.

**Prepared by :**

Mary Ko / Specialist

**Date:**

June 28, 2018

**Approved by :**

May Chen / Manager

**Date:**

June 28, 2018

## 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	3.4	High frequency / 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				



## 2.1 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	703.56 Hz
Spurious emissions	2.52 dB
Output power density	1.37 dB
Out of band radiated power	2.52 dB
Frequency Tolerance	703.56 Hz

## 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT (BT-LE)

Product	Velop
Brand	Linksys
Test Model	WHW01
Series Model	A01
Driver version	1.1.6.189522
Status of EUT	ENGINEERING SAMPLE
Nominal Voltage	12Vdc from power adapter
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	Up to 1Mbps
Operating Frequency	2.402 ~ 2.480GHz
Number of Channel	40
Rated RF Output Power	6 mW
Conducted RF Output Power	5.781 mW
Radiated RF Output Power	8.128 mW
Antenna Type	Refer to section 3.5
Antenna Connector	Refer to section 3.5
Accessory Device	Adapter x1
Data Cable Supplied	NA

Note:

- There are WLAN and Bluetooth technology used for the EUT.
- The EUT has below model names, which are identical to each other in all aspects except for the following table:

Brand	Model Name	Different
Linksys	WHW01	For marketing request
	A01	

From the above models, model: **WHW01** was selected as representative model for the test and its data was recorded in this report.

- Simultaneously transmission condition.

Condition	Technology		
1	WLAN 2.4GHz	WLAN 5GHz	Bluetooth

- The EUT must be supplied with a power adapter as following table:

Brand	Model No.	Spec.
APD	WB-12G12FU	Input: 100-240Vac, 0.3A, 50-60Hz Output: 12V, 1A Output cable: Unshielded, 1.5m

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

### 3.2 Description of Test Modes

40 channels are provided for BT-LE mode:

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:

1. 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 (Hyper terminal paste 171205\_BT+BLE command.txt) provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power Setting
0	8
19	8
39	8

### 3.3 Test Conditions

Test Conditions		Voltage (Vdc)
$V_{normal}$		12
$V_{max.}$	+10%	13.2
$V_{min.}$	-10%	10.8

### 3.4 Assembly

The EUT is constructed as a Velop. The housing consists of two parts, the parts was fixed together by special type screws. Separating the two parts was only possible by special tools.

### 3.5 Antenna Specifications

#### 3.5.1 Antenna Gain

WLAN						
Ant No.	Brand	Model	Antenna Gain (dBi)	Frequency rang (GHz)	Antenna type	Connector type
1	ARISTOTLE	AP571-P11-P2	2.4	2.4~2.4835	PCB	i-pex(MHF)
			3.6	5.15~5.85		
2	ARISTOTLE	AP571-P22-P5	1.36	2.4~2.4835	PCB	i-pex(MHF)
			3.5	5.15~5.85		
Bluetooth						
Ant No.	Brand	Model	Antenna Gain (dBi)	Frequency rang (GHz)	Antenna type	Connector type
1	ARISTOTLE	AP571-BT-1	1.48	2.4~2.4835	PCB	i-pex(MHF)

#### 3.5.2 Antenna Pattern

Please refer to the attached file (Antenna pattern).

## 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		25 deg.C, 60% RH					
Channel	Frequency (MHz)	V <sub>normal</sub>		V <sub>max.</sub>		V <sub>min.</sub>	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2402.001160	0.482	2402.001000	0.416	2402.001000	0.416
19	2440	2439.999480	-0.213	2439.999480	-0.213	2439.999480	-0.213
39	2480	2479.999160	-0.338	2479.999080	-0.370	2479.999160	-0.338

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

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

### 4.2.2 Test Setup

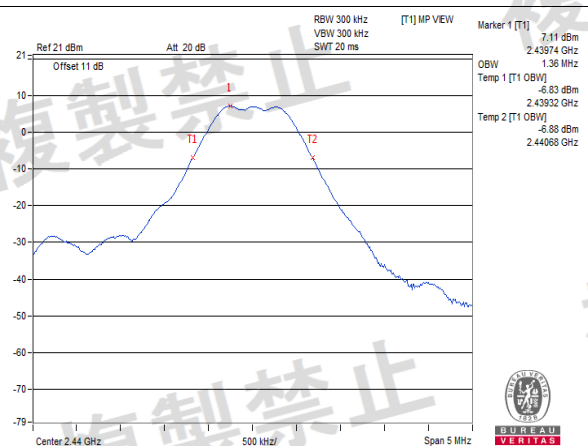
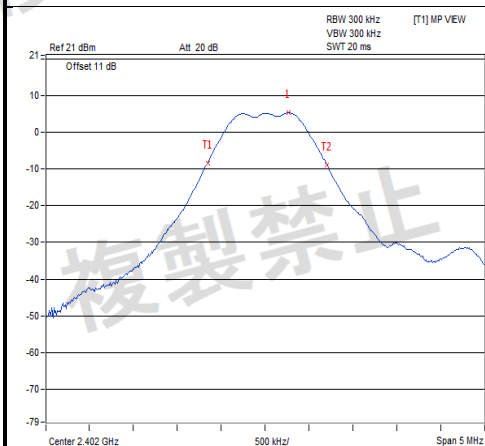


### 4.2.3 Test Results

Environmental Conditions		25 deg.C, 60% 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	1.36	1.36	1.36
19	2440	1.36	1.36	1.36
39	2480	1.36	1.36	1.36

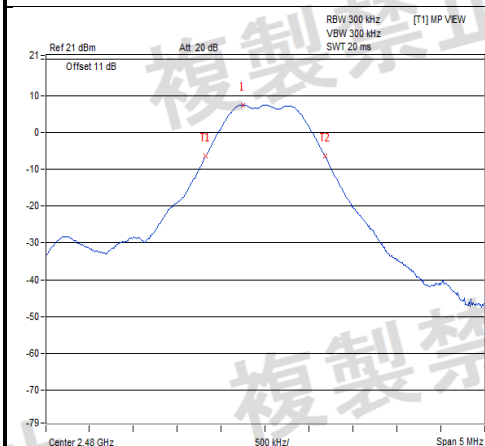
Note: 1. For the test plots please refer to the below pages.

V<sub>normal</sub>



Channel 0

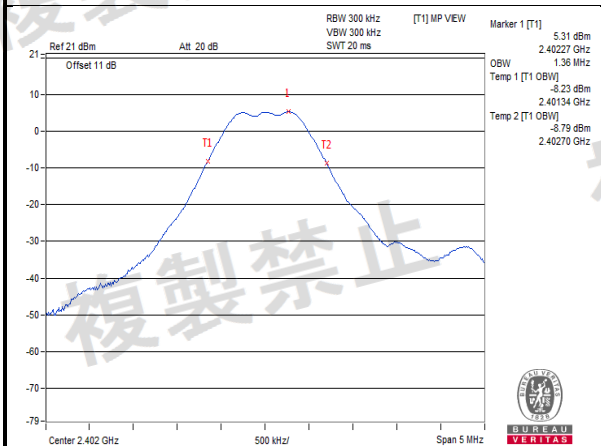
Channel 19



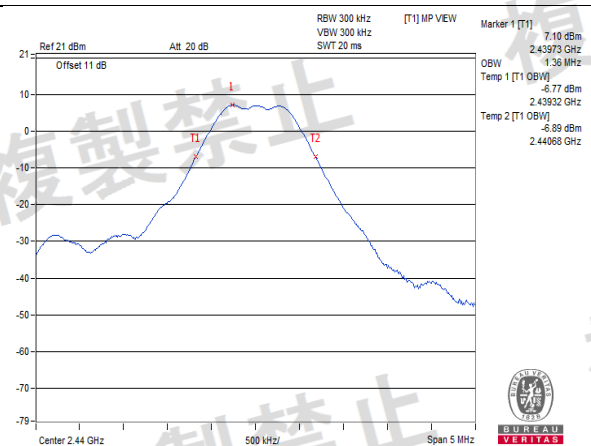
Channel 39



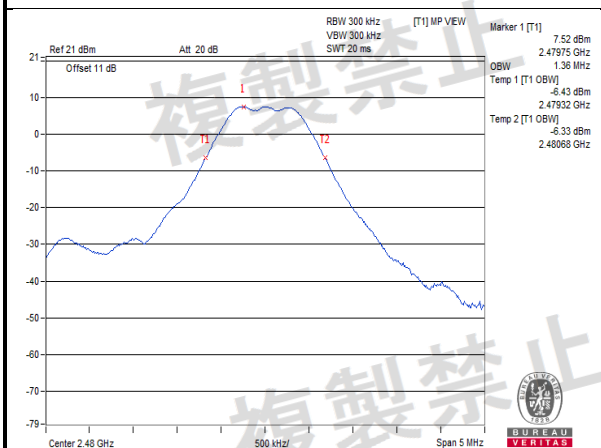
V max.



Channel 0

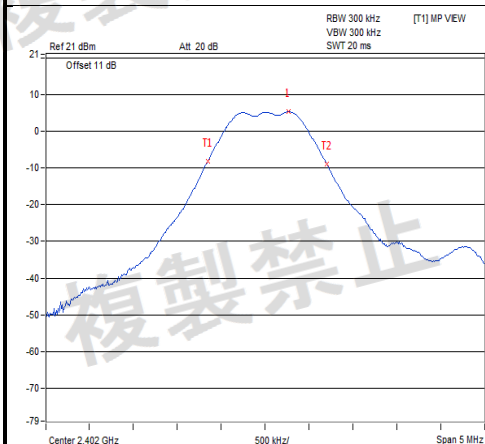


Channel 19

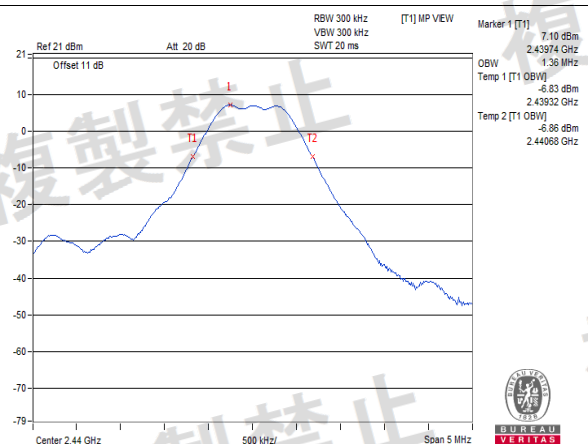


Channel 39

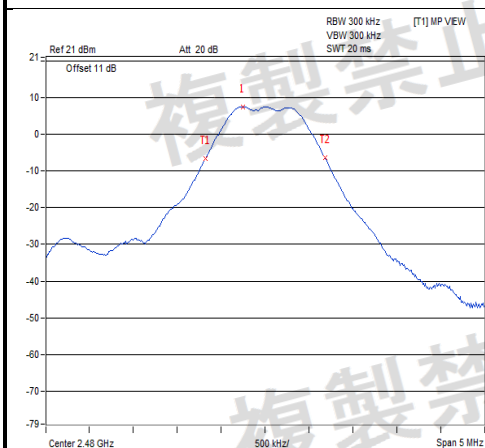
V min.



Channel 0



Channel 19



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	$\leq 0.25 \mu\text{W}/100\text{kHz}$
1000.0MHz to 2387MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$
2387.0MHz to 2400.0MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2483.5MHz to 2496.5MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$

##### 4.3.2 Test Setup



#### 4.3.3 Test Results

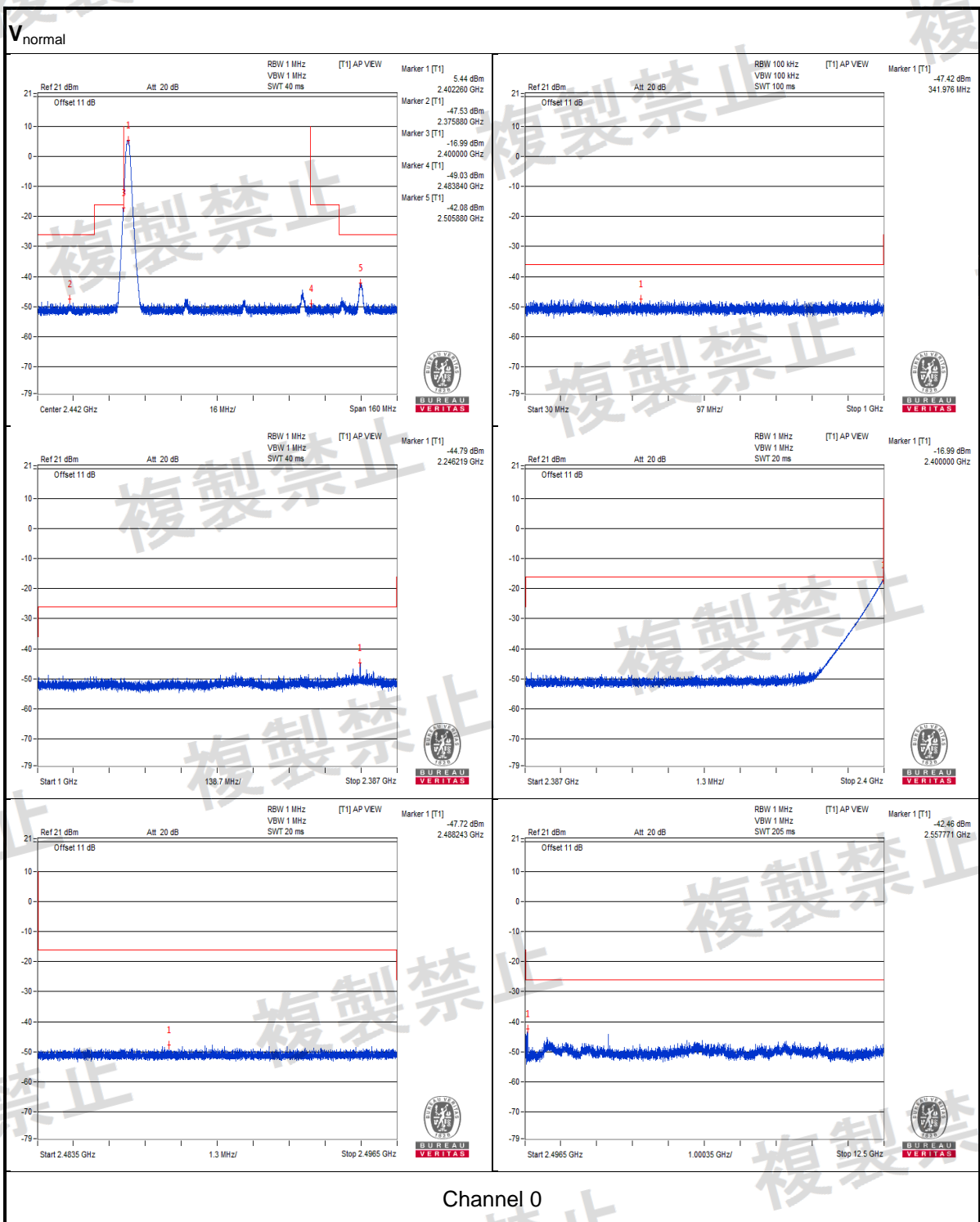
Environmental Conditions		25 deg.C, 60% RH					
Test Channel		CH 0 (2402MHz)		CH 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value	Frequency (MHz)	Measured Value		
V <sub>normal</sub>	30.0MHz to 1000.0MHz	341.976	0.018113uW	525.548	<b>0.020797uW</b>	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2246.219	0.033189uW	2284.362	<b>0.037497uW</b>	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2400.000	<b>19.998619uW</b>	2398.899	0.017783uW	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2488.243	0.016904uW	2491.987	<b>0.02138uW</b>	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2557.771	<b>0.056754uW</b>	2542.766	0.044978uW	2.5uW/MHz	Pass
V <sub>max.</sub>	30.0MHz to 1000.0MHz	606.665	0.018408uW	849.650	0.019588uW	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2246.392	0.03062uW	2283.841	0.037411uW	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2400.000	19.906733uW	2387.989	<b>0.018239uW</b>	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2491.863	<b>0.017022uW</b>	2492.434	0.021232uW	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2557.771	0.055847uW	2544.016	<b>0.047973uW</b>	2.5uW/MHz	Pass
V <sub>min.</sub>	30.0MHz to 1000.0MHz	871.960	<b>0.020324uW</b>	560.590	0.020417uW	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2245.699	<b>0.035975uW</b>	2284.188	0.036141uW	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2399.998	<b>19.998619uW</b>	2388.274	0.017579uW	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2496.306	0.015996uW	2492.101	0.020701uW	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2557.771	0.056105uW	2542.766	0.04217uW	2.5uW/MHz	Pass

Note: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.

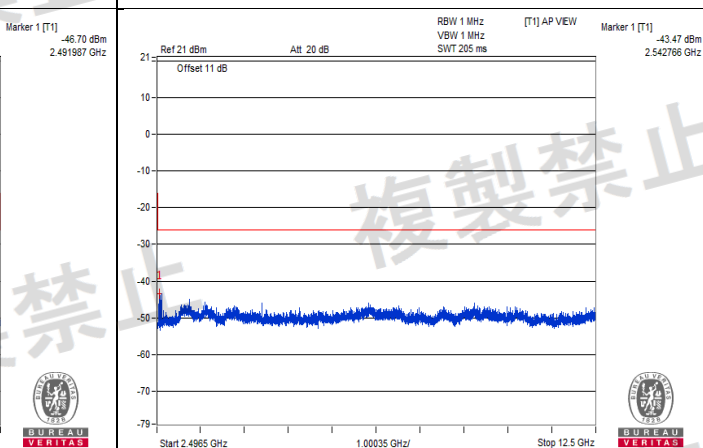
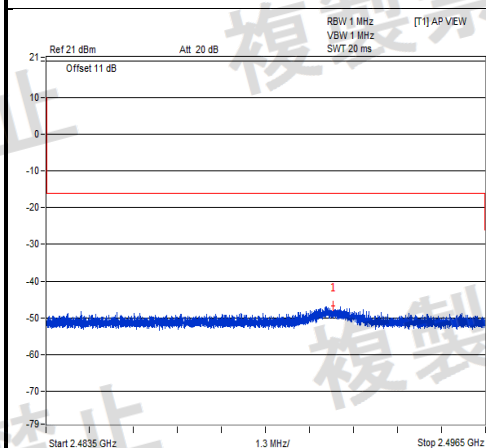
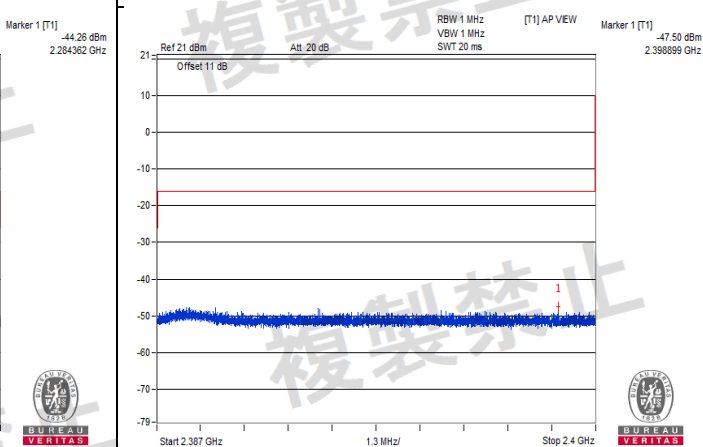
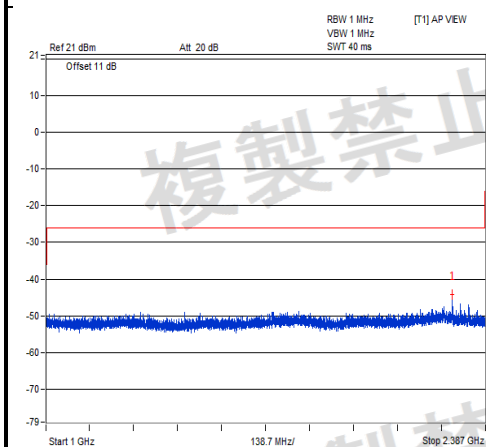
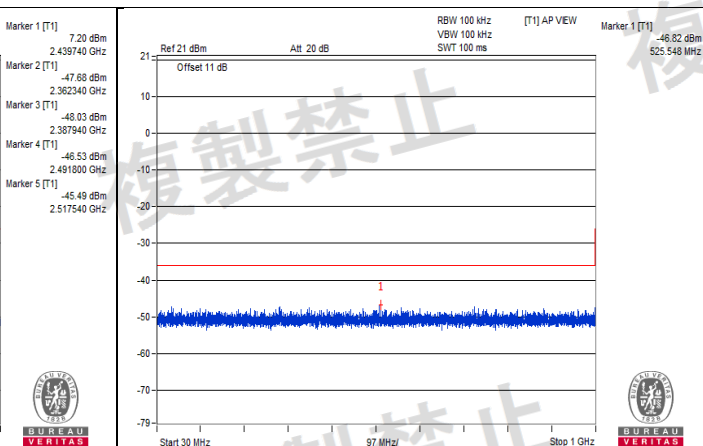
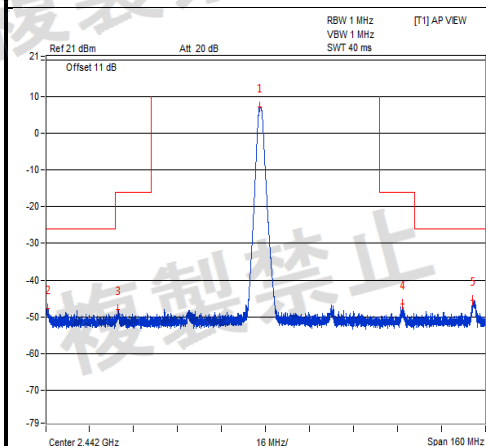
Test Channel		CH 39 (2480MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value		
V <sub>normal</sub>	30.0MHz to 1000.0MHz	358.830	<b>0.020091uW</b>	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2324.585	0.039174uW	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2391.385	0.014421uW	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.504	0.84918uW	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2584.030	0.039355uW	2.5uW/MHz	Pass
V <sub>max.</sub>	30.0MHz to 1000.0MHz	313.846	0.019498uW	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2324.238	0.034995uW	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2396.312	<b>0.015996uW</b>	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.500	0.851138uW	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2584.030	0.044055uW	2.5uW/MHz	Pass
V <sub>min.</sub>	30.0MHz to 1000.0MHz	45.035	0.018923uW	0.25 uW/100kHz	Pass
	1000.0MHz to 2387MHz	2324.411	<b>0.039902uW</b>	2.5uW/MHz	Pass
	2387.0MHz to 2400.0MHz	2397.036	0.014521uW	25uW/MHz	Pass
	2483.5MHz to 2496.5MHz	2483.500	<b>0.857038uW</b>	25uW/MHz	Pass
	2496.5MHz to 12500.0MHz	2584.030	<b>0.044566uW</b>	2.5uW/MHz	Pass

Note: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.  
2. The spectrum plots are attached on the following pages.



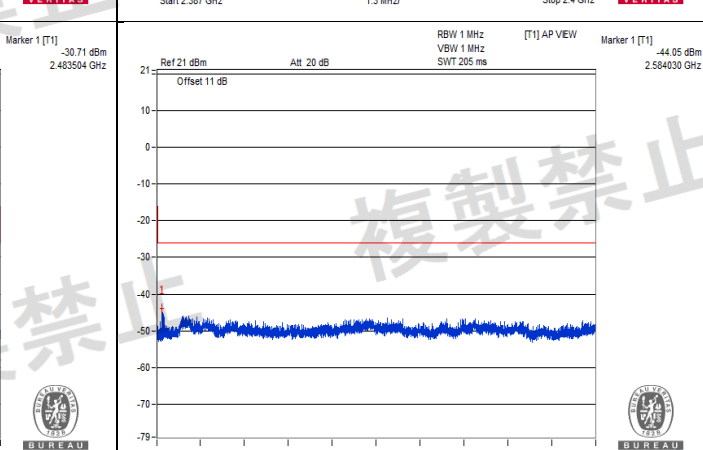
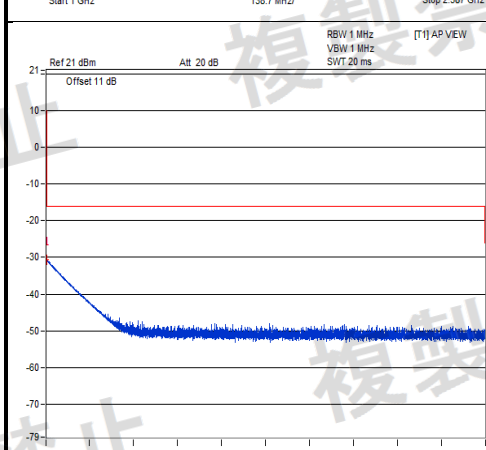
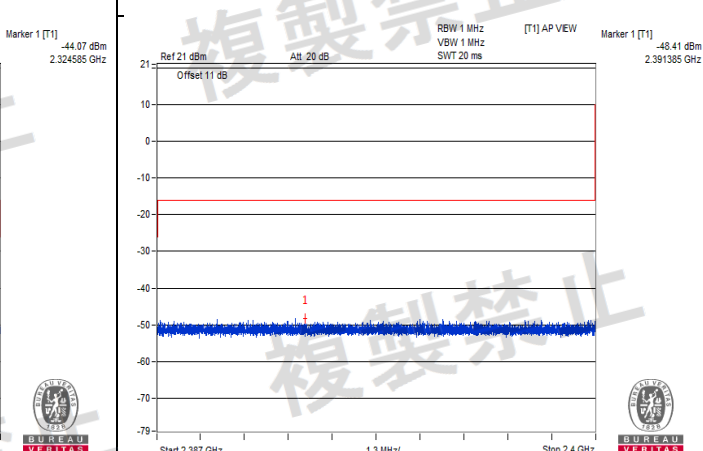
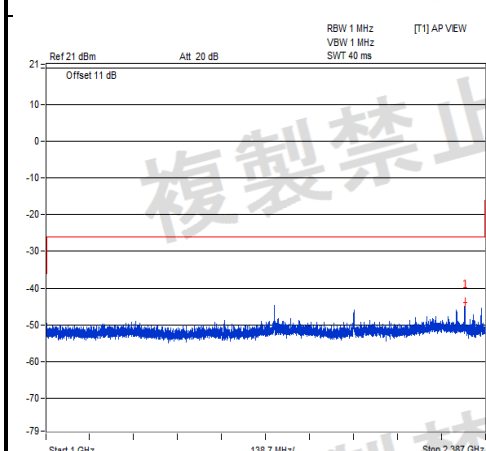
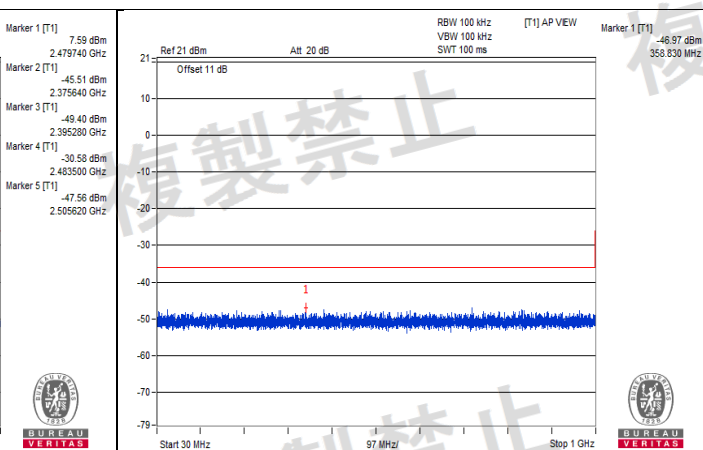
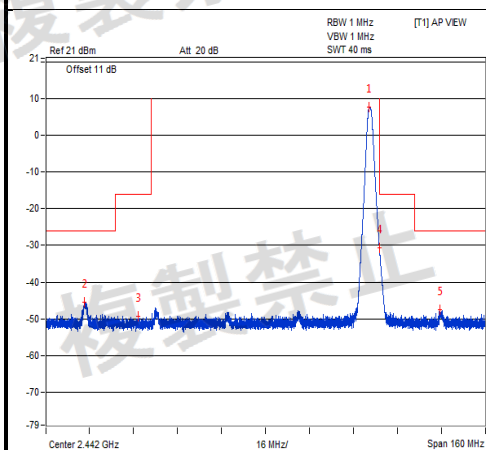


V normal

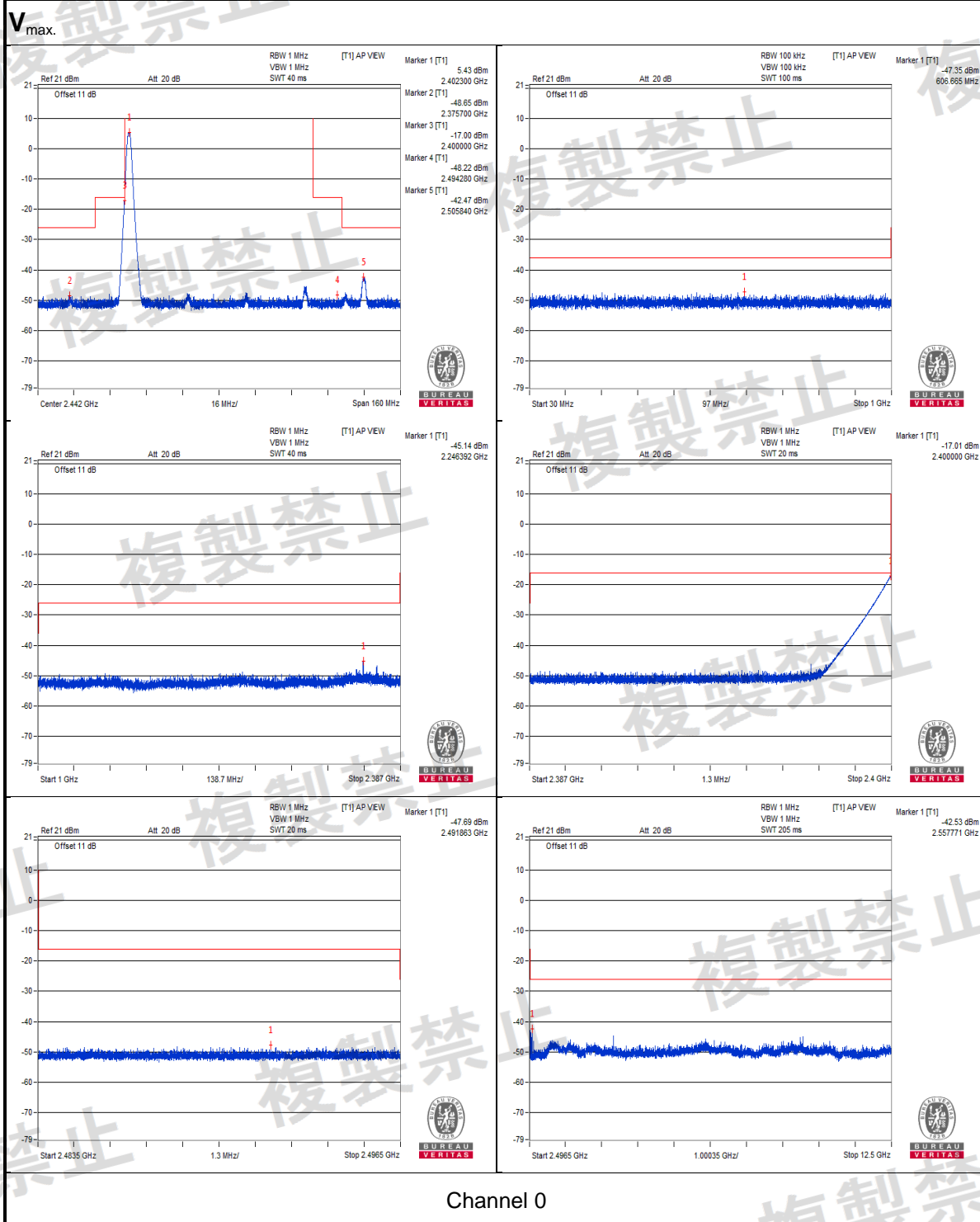


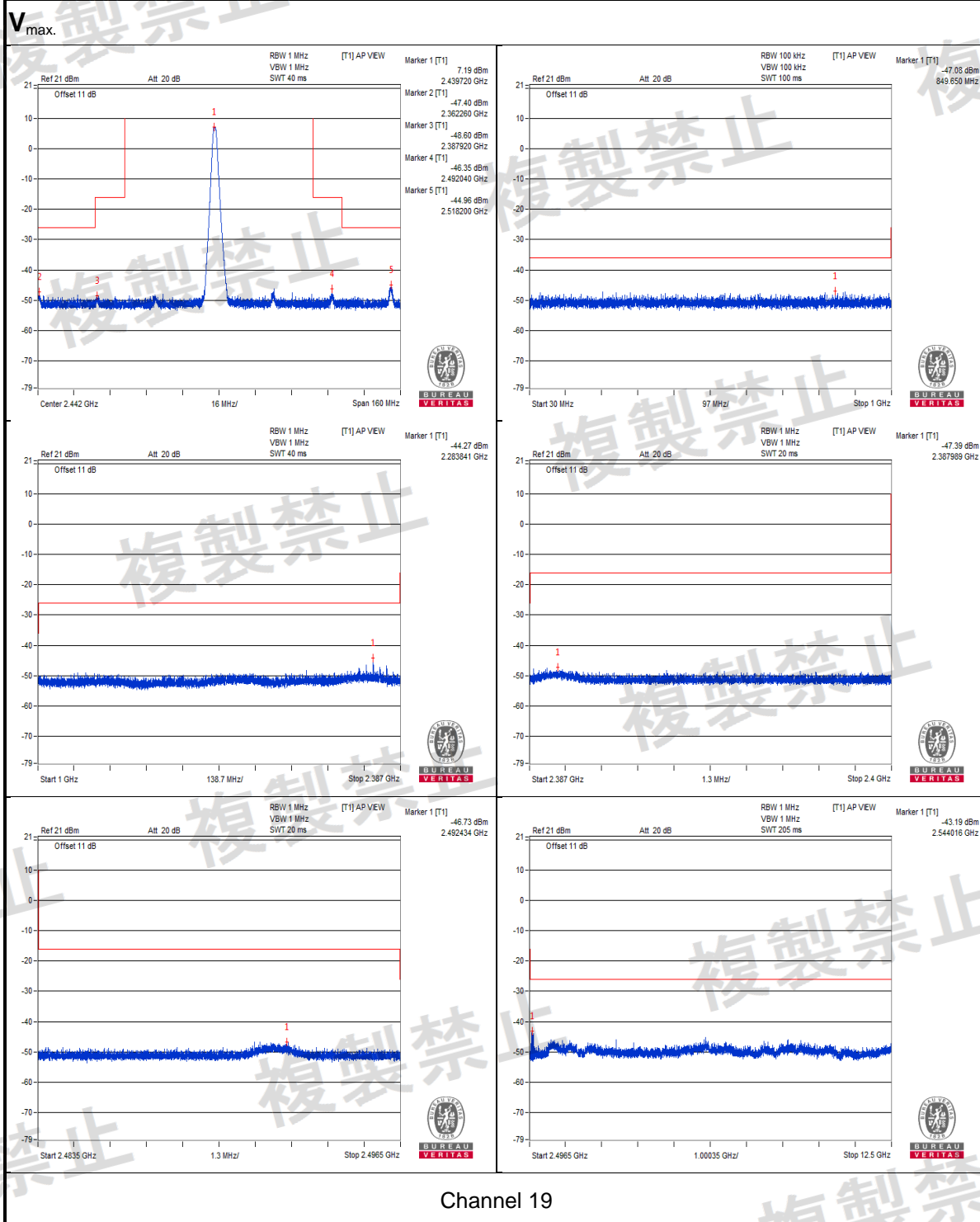
Channel 19

V normal

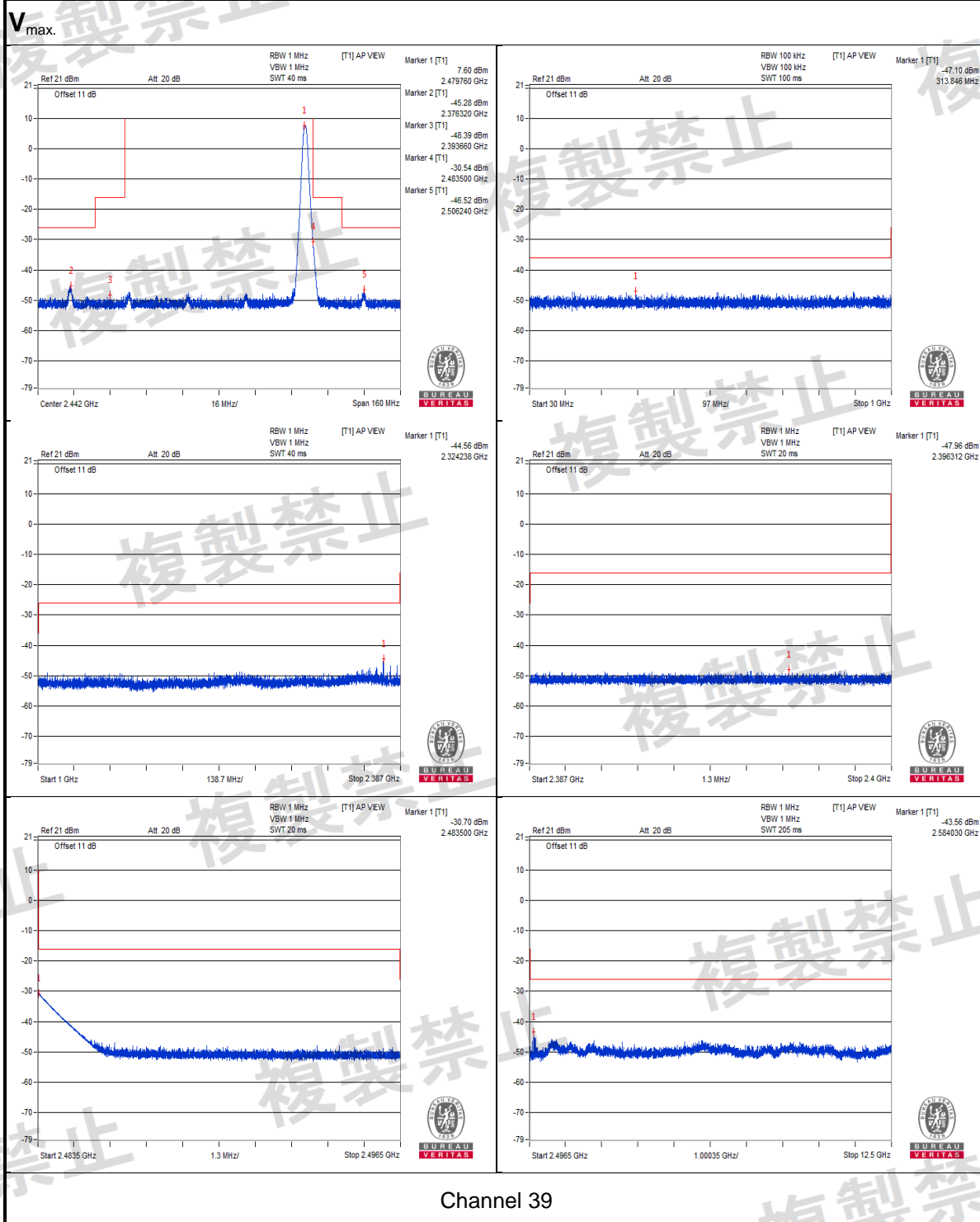


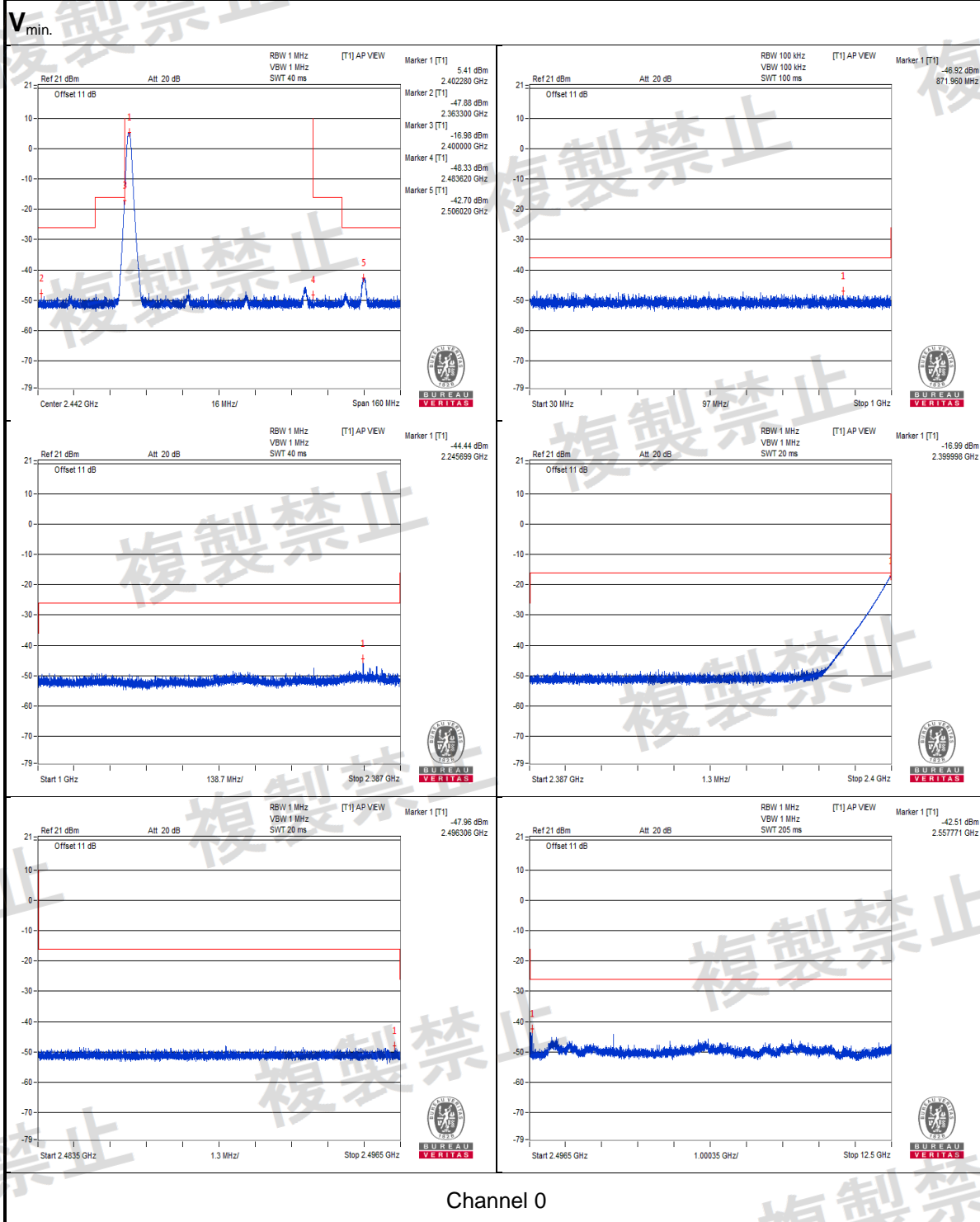
Channel 39

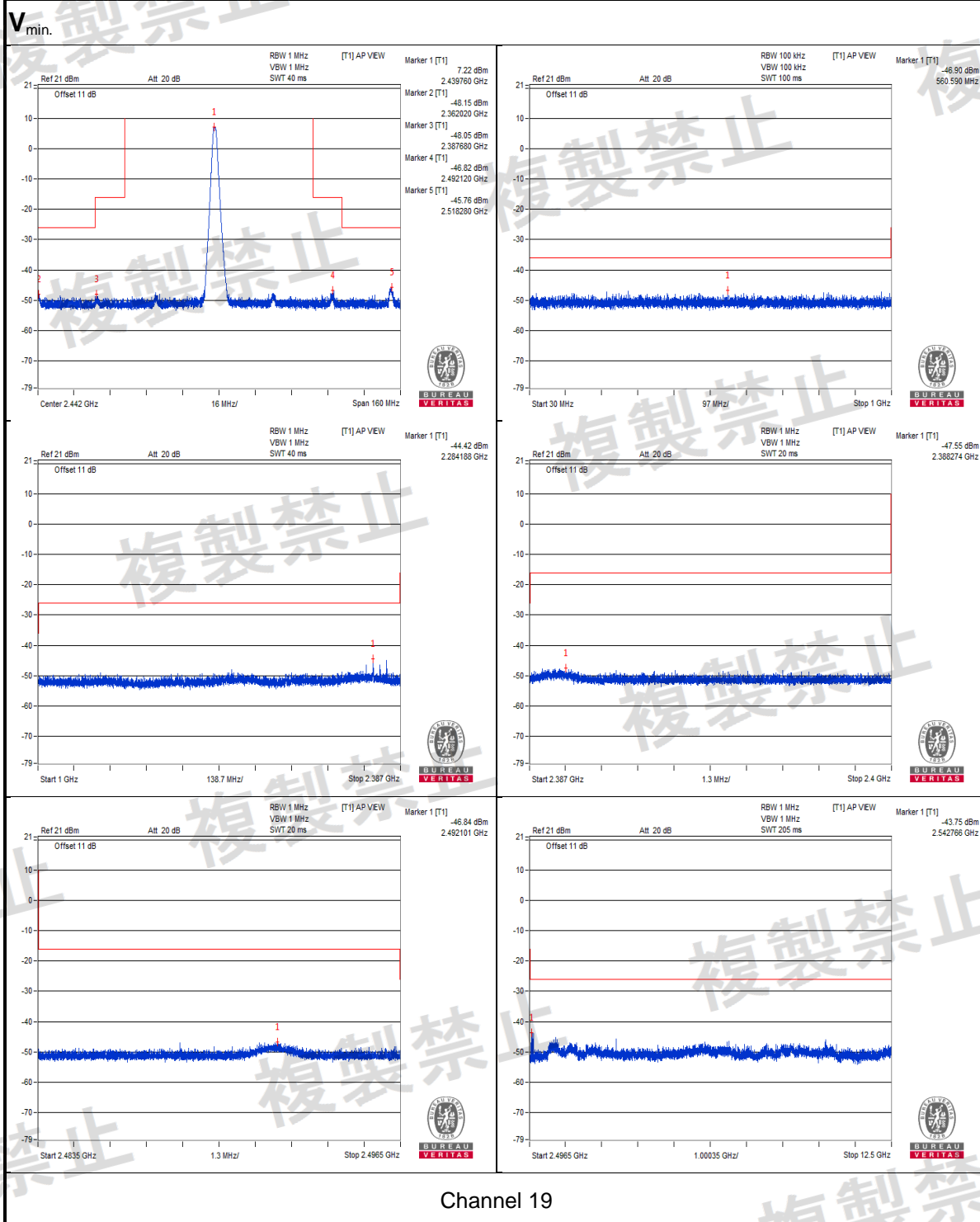


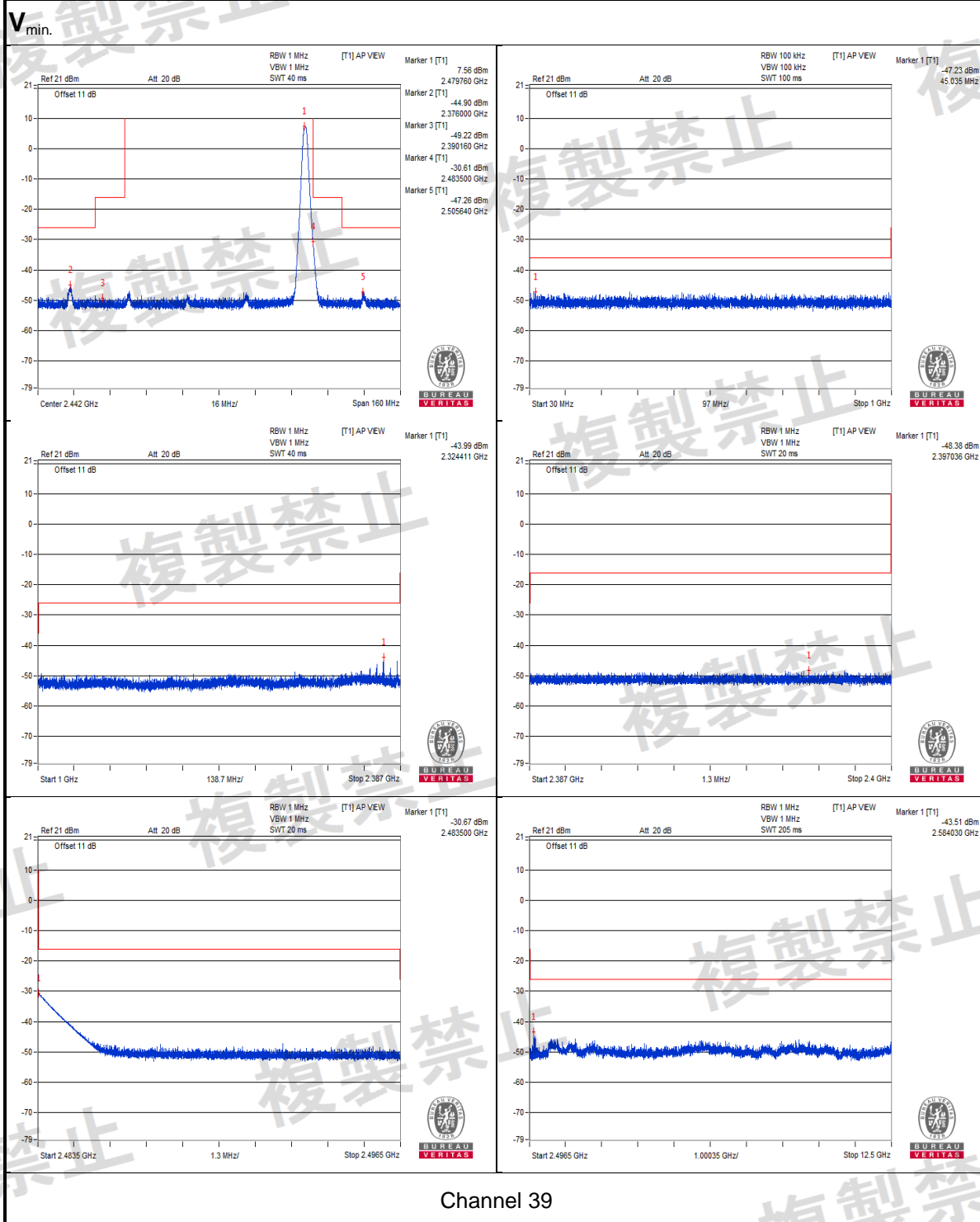












#### 4.4 Antenna Power Measurement

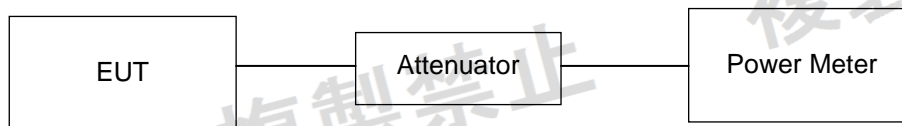
##### 4.4.1 Limits of Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP (Max.)	
			Omni-Directional Case	Directional Case
DS	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz (16.368 mW/MHz)	22.14 dBm/MHz (163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10mW/MHz	12.14 dBm/MHz (16.368 mW/MHz)	22.14 dBm/MHz (163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5mW/MHz	9.14dBm/MHz (8.203mW/MHz)	19.14dBm/MHz (82.03mW/MHz)
Other than the above	2400 – 2483.5 MHz	10 mW	12.14 dBm (16.368 mW)	22.14 dBm (163.68 mW)

Note:

1. Occupied bandwidth is less than 26MHz
2. Occupied bandwidth is more than 26MHz and less than 38MHz
3. The half-power beam width for directional antenna shall be 360/A degrees or less, where A is a ratio which causes the EIRP concerned to exceed the omnidirectional EIRP upper 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, 60% RH		
Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)		
		V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>
0	2402	3.327	3.311	3.251
19	2440	5.129	5.023	4.943
39	2480	5.585	5.781	5.346
Max. Limit (mW)		10		
Rated Power		6		
Tolerance of Antenna Power		1.2 ~ 7.2		

#### PCB antenna with antenna gain: 1.48 dBi

Environmental Conditions		25 deg.C, 60% RH		
Channel Number	Frequency (MHz)	Radiated RF Output Power (mW)		
		V <sub>normal</sub>	V <sub>max.</sub>	V <sub>min.</sub>
0	2402	4.678	4.655	4.571
19	2440	7.212	7.063	6.95
39	2480	7.853	8.128	7.517
EIRP Max. Limit (mW)		16.368		

Note: 1. The radiated RF output power is a “calculated” value derived from the conducted value.

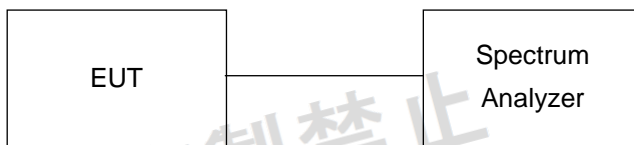
2. Formula: Radiated RF output power = Conducted RF output power + Maximum Antenna Gain

#### 4.5 Spurious Emissions for Receiver

##### 4.5.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}/100\text{kHz}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}/\text{MHz}$ (-47dBm)

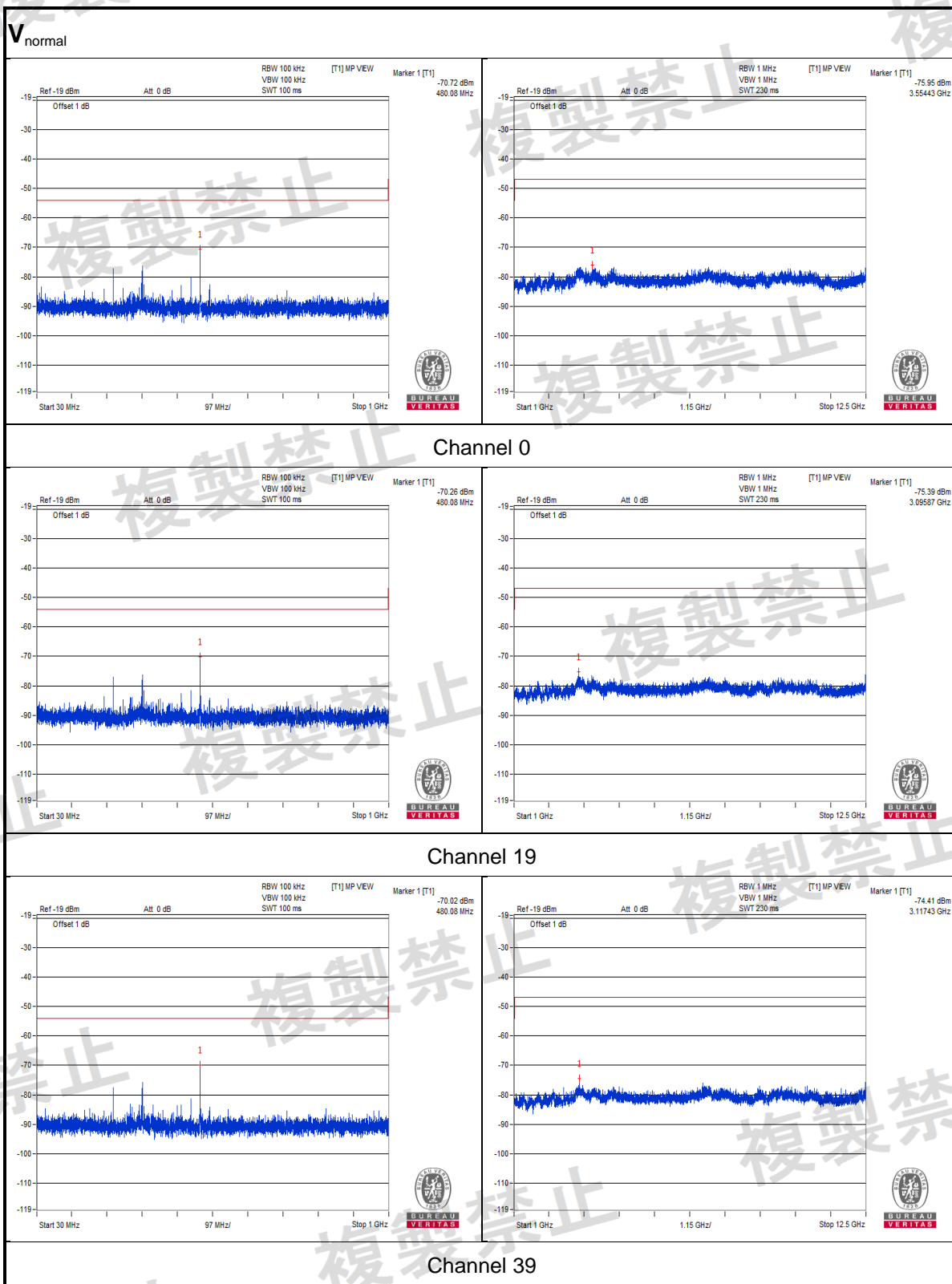
##### 4.5.2 Test Setup



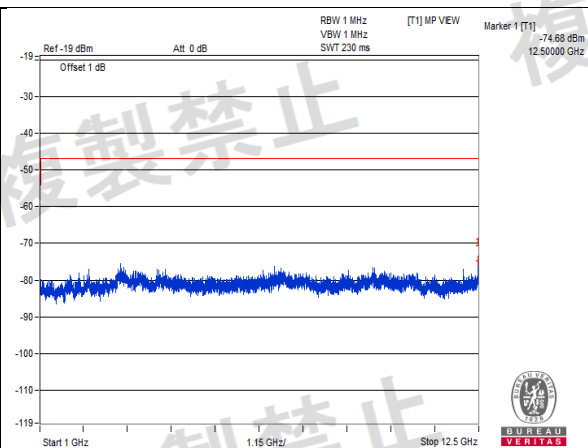
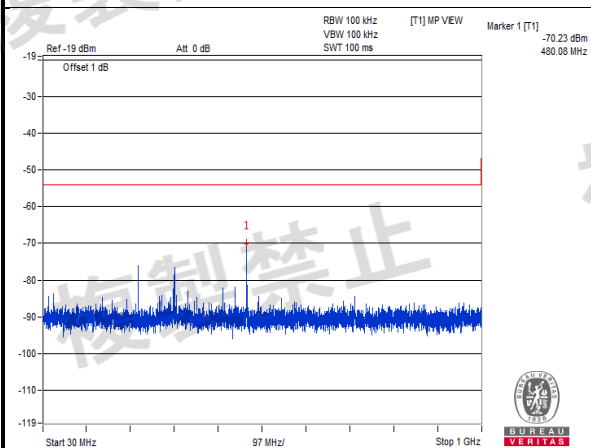
#### 4.5.3 Test Result

Environmental Conditions		25 deg.C, 60% RH					
Test Channel		Channel 0 (2402MHz)		Channel 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value	Frequency (MHz)	Measured Value		
V <sub>normal</sub>	Below 1GHz	480.080	0.084723nW	480.080	0.094189nW	4nW/100kHz	Pass
	Above 1GHz	3554.430	0.02541nW	3095.870	0.028907nW	20nW/MHz	Pass
V <sub>max.</sub>	Below 1GHz	480.080	0.094842nW	480.080	0.09528nW	4nW/100kHz	Pass
	Above 1GHz	12500.000	0.034041nW	3205.120	0.024434nW	20nW/MHz	Pass
V <sub>min.</sub>	Below 1GHz	480.080	0.086497nW	480.080	0.092683nW	4nW/100kHz	Pass
	Above 1GHz	3147.620	0.025527nW	3042.680	0.027733nW	20nW/MHz	Pass
Test Channel		Channel 39 (2480MHz)				Limit	Result
Test Condition	Frequency Range	Frequency (MHz)		Measured Value			
V <sub>normal</sub>	Below 1GHz	480.080		0.099541nW		4nW/100kHz	Pass
	Above 1GHz	3117.430		0.036224nW		20nW/MHz	Pass
V <sub>max.</sub>	Below 1GHz	480.080		0.079433nW		4nW/100kHz	Pass
	Above 1GHz	7373.870		0.025704nW		20nW/MHz	Pass
V <sub>min.</sub>	Below 1GHz	480.080		0.085704nW		4nW/100kHz	Pass
	Above 1GHz	12500.000		0.02884nW		20nW/MHz	Pass

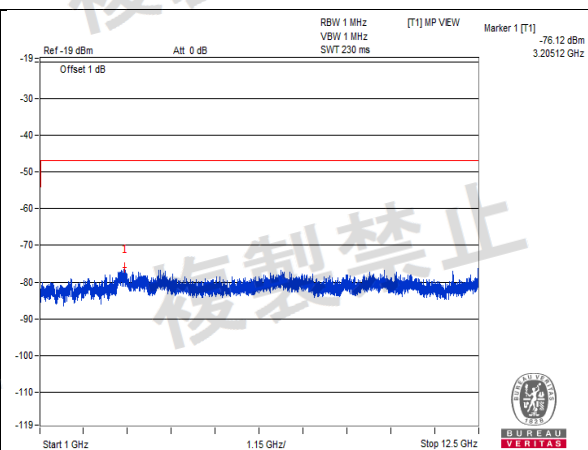
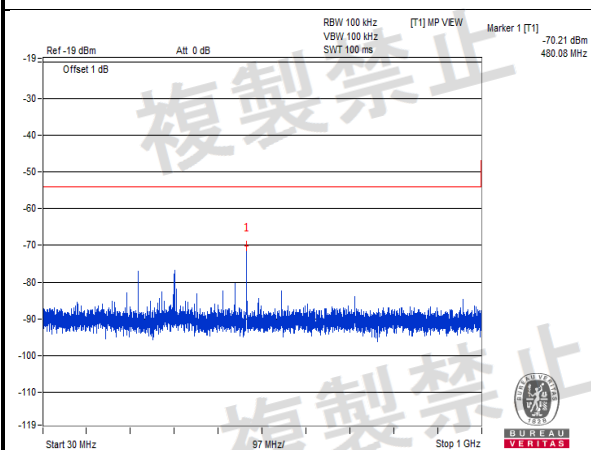
Note: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.  
2. The spectrum plots are attached on the following pages.



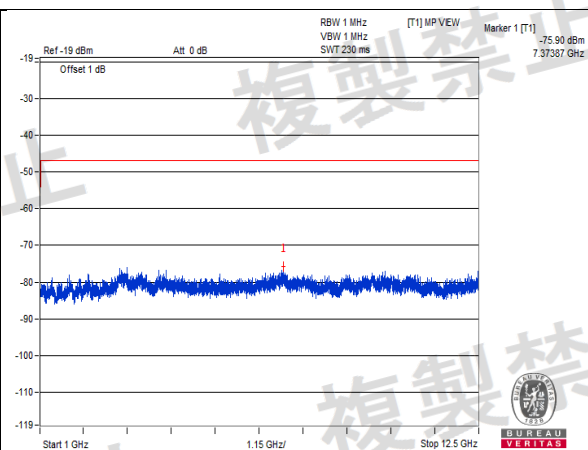
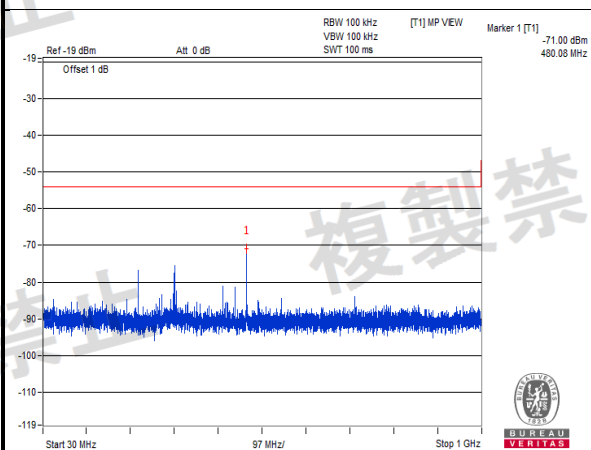
V<sub>max</sub>.



Channel 0

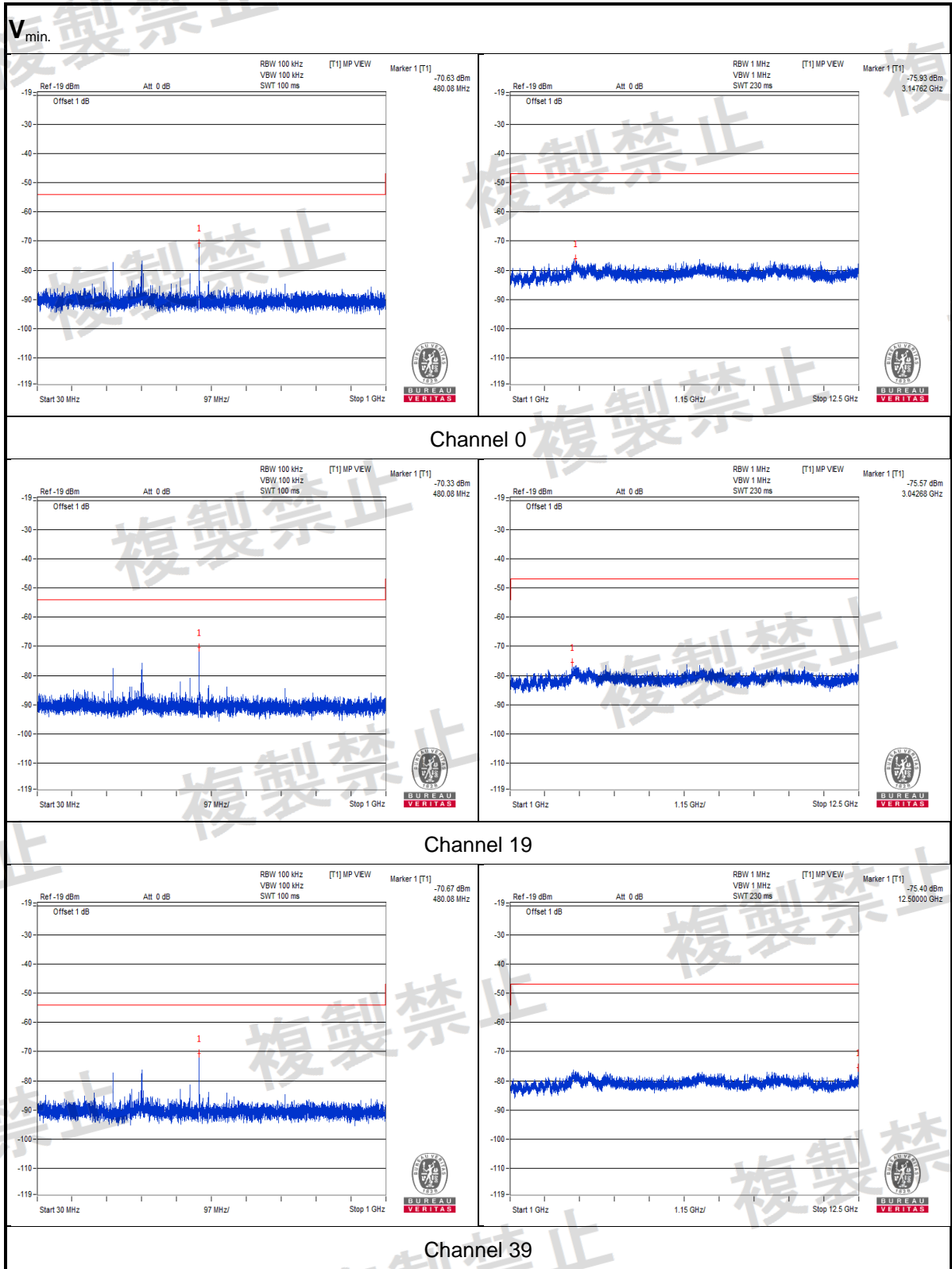


Channel 19



Channel 39



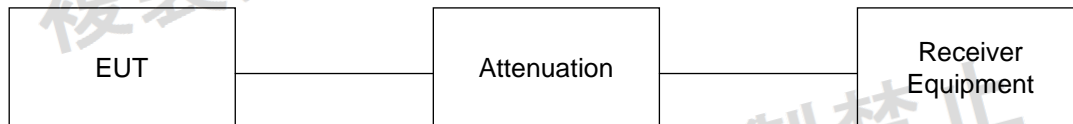


## 4.6 Interference Prevention Function

### 4.6.1 Limits of Interference Prevention Function

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

### 4.6.2 Test Setup



### 4.6.3 Test Results

Environmental Conditions	25 deg.C, 60% RH
Link Mode	Test Result
BT-LE	Pass

## 5 Test Instruments

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority
Spectrum Analyzer R&S	FSV40	100964	July 01, 2017	June 30, 2018	ETC
ESG Vector signal generator Agilent	E4438C	MY47271330 506 602 UNJ	Oct. 11, 2017	Oct. 10, 2018	ETC
Detector Narda	4503A	0306	NA	NA	NA
Power Meter Anritsu	ML2495A	1014008	May 09, 2018	May 08, 2019	ETC
Power Sensor Anritsu	MA2411B	0917122	May 09, 2018	May 08, 2019	ETC
Digital Oscilloscope R&S	RTO1012	300053	June 28, 2017	June 27, 2018	ETC
DC Power Supply Topward	6603D	795558	NA	NA	NA
AC Power Source Extech Electronics	6205	1440452	NA	NA	NA
True RMS Clamp Meter FLUKE	325	31130711WS	May 22, 2018	May 21, 2019	ETC

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested Date: June 08, 2018

## 6 Photographs of the Test Configuration





## Appendix - Information on 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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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

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