



## Radio Test Report

**Report No.:** RJ170109C30

**Test Model:** MX2303

**Series Model:** MX2301, MX2302, MX2303, MX2304, MX2305 (Refer to items 3.1 for more details)

**Received Date:** Jan. 09, 2017

**Test Date:** Jan. 20 ~ Jan. 25, 2017

**Issued Date:** Jan. 26, 2017

**Applicant:** Onset Computer Corporation

**Address:** 470 MacArthur Blvd. Bourne, MA 02532

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

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

**Test Location:** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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## Table of Contents

Release Control Record .....	3
1 Certificate of Conformity .....	4
2 Summary of Test Results .....	5
2.1 Measurement Uncertainty .....	6
2.2 Modification Record .....	6
3 General Information .....	7
3.1 General Description of EUT .....	7
3.2 Description of Test Modes .....	8
3.3 Test Conditions .....	8
3.4 Assembly .....	8
3.5 Antenna Specifications .....	9
3.5.1 Antenna Gain .....	9
3.5.2 Antenna Pattern .....	9
4 Test Results .....	10
4.1 Frequency Tolerance Measurement .....	10
4.1.1 Limits of Frequency Tolerance Measurement .....	10
4.1.2 Test Setup .....	10
4.1.3 Test Results .....	10
4.2 Occupied Bandwidth Measurement (99% power bandwidth) .....	11
4.2.1 Limits of Occupied Bandwidth Measurement .....	11
4.2.2 Test Setup .....	11
4.2.3 Test Results .....	12
4.3 Spreading Bandwidth Measurement (90% power bandwidth) .....	15
4.3.1 Limits of Spreading Bandwidth and Spreading Factor Measurement .....	15
4.3.2 Test Setup .....	15
4.3.3 Test Results .....	16
4.4 Spurious Emissions for Transmitter Measurement .....	19
4.4.1 Limits of Spurious Emissions .....	19
4.4.2 Test Setup .....	19
4.4.3 Test Results .....	20
4.5 Antenna Power Measurement .....	31
4.5.1 Limits of Antenna Power .....	31
4.5.2 Test Setup .....	31
4.5.3 Test Results .....	31
4.6 Spurious Emissions for Receiver .....	32
4.6.1 Limits of Spurious Emissions For Receiver .....	32
4.6.2 Test Setup .....	32
4.6.3 Test Result .....	33
4.7 Interference Prevention Function .....	37
4.7.1 Limits of Interference Prevention Function .....	37
4.7.2 Test Setup .....	37
4.7.3 Test Results .....	37
5 Test Instruments .....	38
6 Photographs of the Test Configuration .....	39
Appendix - Information on the Testing Laboratories .....	40



Release Control Record

Issue No.	Description	Date Issued
RJ170109C30	Original release	Jan. 26, 2017



## 1 Certificate of Conformity

**Product:** HOBOT<sup>TM</sup>MX2300 Loggers

**Brand:** HOBO

**Test Model:** MX2303

**Series Model:** MX2301, MX2302, MX2303, MX2304, MX2305 (Refer to items 3.1 for more details)

**Sample Status:** Engineering sample

**Applicant:** Onset Computer Corporation

**Test Date:** Jan. 20 ~ Jan. 25, 2017

**Standards:** ARIB STD-T66 (V3.7), MIC notice 88 Appendix 43

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 :** Celine Chou , **Date:** Jan. 26, 2017  
Celine Chou / Specialist

**Approved by :** Ken Liu , **Date:** Jan. 26, 2017  
Ken Liu / Senior Manager



## 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)	4.4	Spurious emissions	C
<b>Transmitting Equipment</b>				
F	--	4.5	Antenna power	C
--	--	--	SAR	NA
<b>Transmitting Antenna</b>				
--	--	3.6	Type, configuration, etc. of transmitting antenna	C
--	--	3.6	Direction pattern of transmitting antenna	C
<b>Receiving Equipment</b>				
G	3.3 (1)	4.6	Spurious emissions of receiver	C
--	--	3.6	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)	4.5	Antenna power	C
--	3.6 (2)	3.5.2	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)	4.3	Spreading bandwidth	C
--	3.2 (9)	4.3	Spreading factor	C
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.7	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	491.896Hz
Spurious emissions	3.508dB
Output power density	2.889dB
Adjacent Channel Leakage Power	1.35dB
Out of band radiated power	3.93dB
Frequency Tolerance	6805.18Hz
Burst length	0.01%

## 2.2 Modification Record

There were no modifications required for compliance.



### 3 General Information

#### 3.1 General Description of EUT

Product	HOBO™MX2300 Loggers
Brand	HOBO
Test Model	MX2303
Series Model	MX2301, MX2302, MX2303, MX2304, MX2305
Model Difference	Refer to note for more details
Status of EUT	Engineering sample
Nominal Voltage	3.3-3.6Vdc
Modulation Type	GFSK
Transfer Rate	1Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Rated RF Output Power Density	1.00 mW
Conducted RF Output Power Density	1.09 mW
Radiated RF Output Power Density	0.69 mW
Antenna Type	Printed antenna with -2dBi gain
Antenna Connector	NA
Accessory Device	NA
Data Cable Supplied	NA

Note: The following models are provided to this EUT.

Brand	Model	Description
HOBO	MX2301	Internal Temperature/RH: 1 Si7051 and 1 SHT75 sensor both installed directly on the PCB.
	MX2302	External Temperature/RH: 1 Si7051 and 1 SHT75 sensor both installed on an attached 1M cable.
	MX2303	2 External Temperature: 2 Si7051 sensors installed on two separate attached 1M cables.
	MX2304	External Temperature: 1 Si7051 sensor installed on an attached 1M cable.
	MX2305	Internal Temperature: 1 Si7051 sensor installed directly on the PCB.

\* The model of the MX2303 was chosen for final test.



### 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)
0	2402	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	19	2440	29	2460	39	2480

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

Modulation Type: GFSK	
Channel	Power Setting
0	Default
19	Default
39	Default

### 3.3 Test Conditions

Test Conditions	Voltage (Vdc)
$V_{normal}$	3.33
$V_{+10\%}$	3.66 (Note)
$V_{-10\%}$	3.00 (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

Two plastic PEM's need to be cut off in order to remove the board from the housing (exposing the radio portion of the circuit on the reverse side of the PCB). Once these PEM's are cut the unit can no longer be put back together.





### 3.5 Antenna Specifications

#### 3.5.1 Antenna Gain

Type	Connector	Gain (dBi)
Printed	NA	-2

#### 3.5.2 Antenna Pattern



XY Antenna Pattern



XZ Antenna Pattern



YZ Antenna Pattern



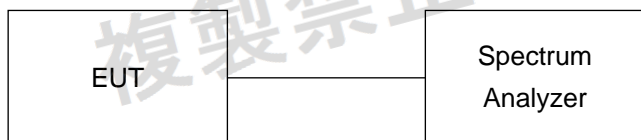
## 4 Test Results

### 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, 68% RH					
Channel	Frequency (MHz)	Voltage normal		Voltage +10%		Voltage -10%	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2401.980000	-8.326	2401.980000	-8.326	2401.980000	-8.326
19	2440	2439.980000	-8.196	2439.980000	-8.196	2439.980000	-8.196
39	2480	2479.980000	-8.064	2479.980000	-8.064	2479.980000	-8.064

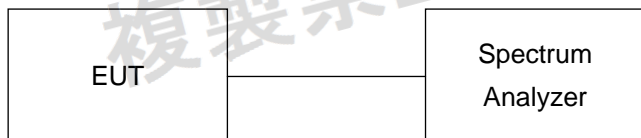


## 4.2 Occupied Bandwidth Measurement (99% power bandwidth)

### 4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

### 4.2.2 Test Setup



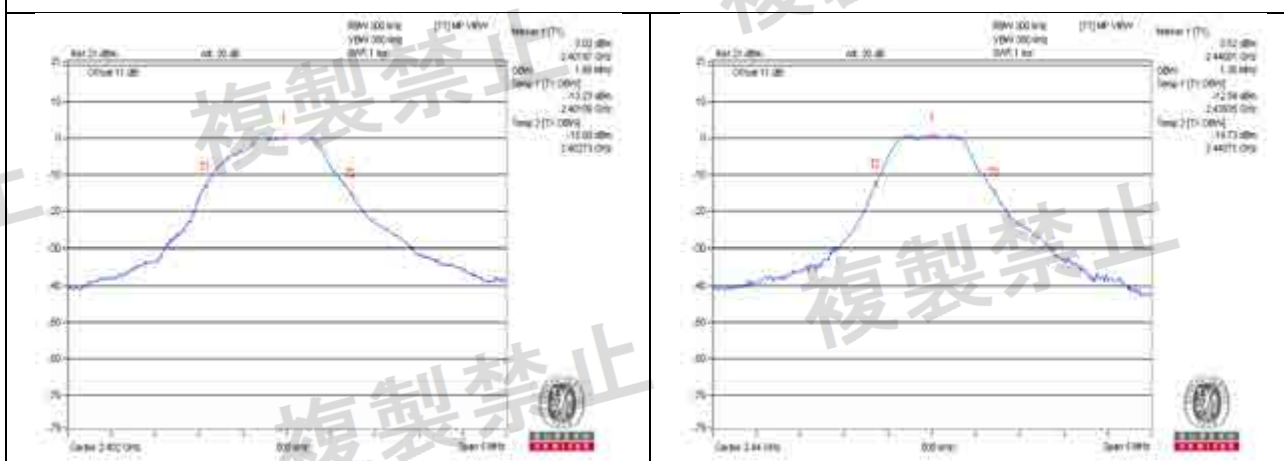


#### 4.2.3 Test Results

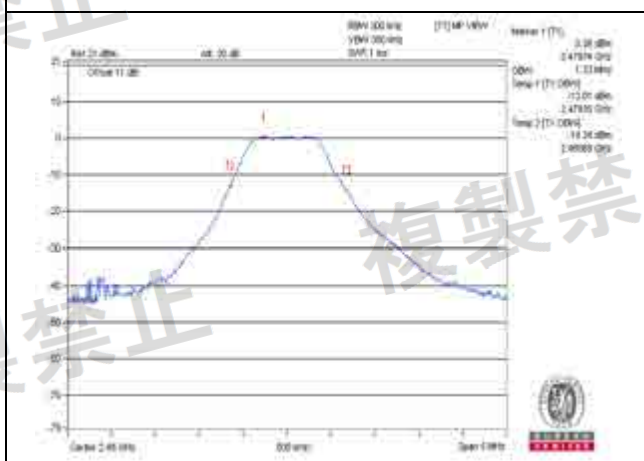
Environmental Conditions		25 deg.C, 68% RH		
Channel	Frequency (MHz)	V <sub>normal</sub>	V <sub>+10%</sub>	V <sub>-10%</sub>
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
0	2402	1.66	1.65	1.65
19	2440	1.36	1.36	1.36
39	2480	1.33	1.33	1.33

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

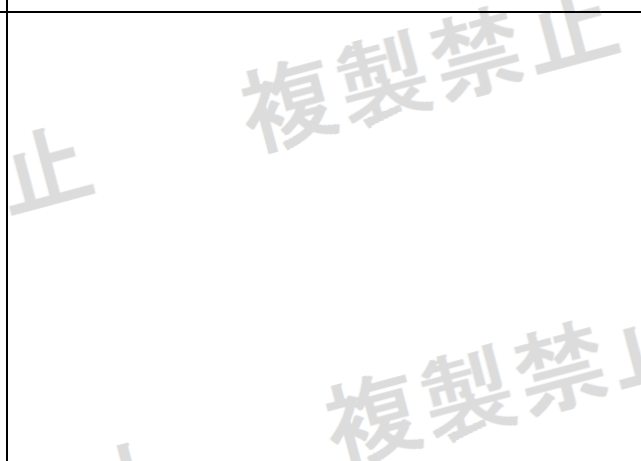
#### V<sub>normal</sub>



#### Channel 0



#### Channel 19



#### Channel 39

Measurement uncertainty:  $\pm 206.50$  Hz









#### 4.3 Spreading Bandwidth Measurement (90% power bandwidth)

##### 4.3.1 Limits of Spreading Bandwidth and Spreading Factor Measurement

Item	Limit	Remark
Spreading Bandwidth	$\geq 500\text{kHz}$	
Spreading Factor	$\geq 5$	Operating frequency 2400 to 2483.5MHz

##### 4.3.2 Test Setup





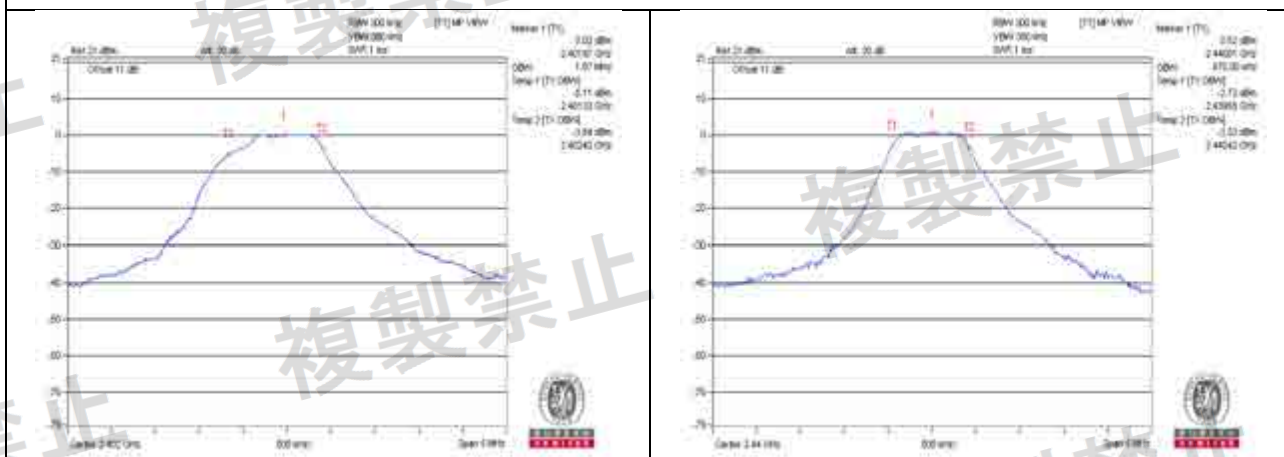
#### 4.3.3 Test Results

Environmental Conditions		25 deg.C, 68% RH					
Channel	Frequency (MHz)	V <sub>normal</sub>		V <sub>+10%</sub>		V <sub>-10%</sub>	
		Occupied Bandwidth (MHz)	Spreading Factor	Occupied Bandwidth (MHz)	Spreading Factor	Occupied Bandwidth (MHz)	Spreading Factor
0	2402	1.07	17.12	1.06	16.96	1.06	16.96
19	2440	0.87	13.92	0.87	13.92	0.87	13.92
39	2480	0.87	13.92	0.87	13.92	0.87	13.92

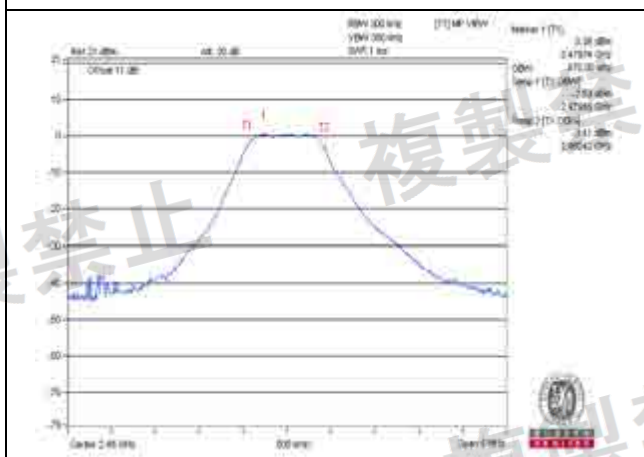
Note: 1. For the test plots please refer to the below pages.

2. Spreading Factor: 90% channel power bandwidth / 0.0625.

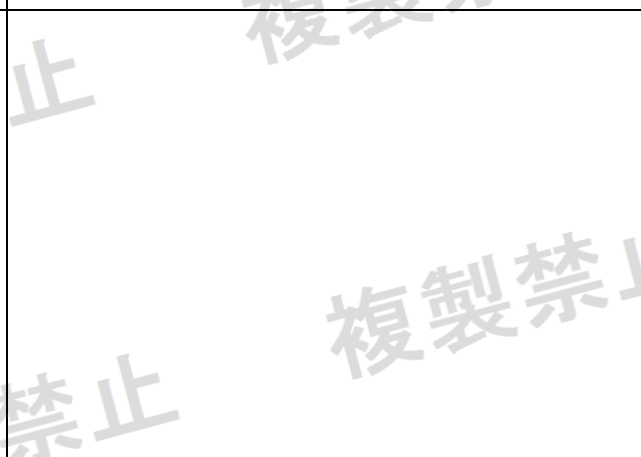
#### V<sub>normal</sub>



#### Channel 0



#### Channel 19

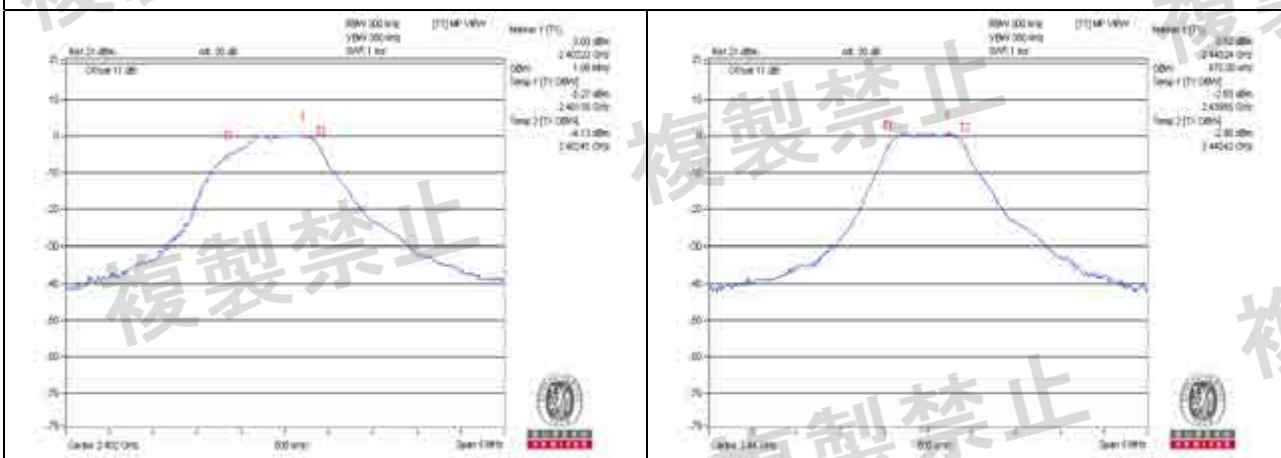


#### Channel 39

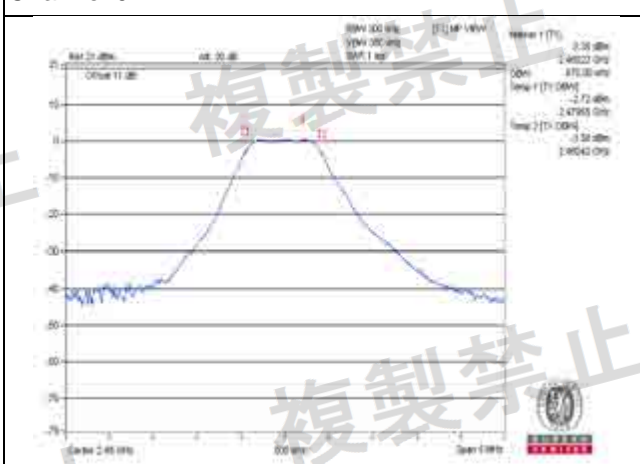
Measurement uncertainty:  $\pm 206.50$  Hz



V+10%



Channel 0



Channel 19



Channel 39

Measurement uncertainty:  $\pm 206.50$  Hz







#### 4.4 Spurious Emissions for Transmitter Measurement

##### 4.4.1 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	$\leq 2.5 \text{ uW/MHz}$

##### 4.4.2 Test Setup





#### 4.4.3 Test Results

Environmental Conditions		25 deg.C, 68% 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	850.620	0.015171uW	856.440	0.017298uW	0.25uW	Pass
	1000.0MHz to 2387MHz	2312.100	0.271019uW	2048.570	0.079799uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2399.940	3.026913uW	2398.360	0.086896uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2493.010	0.101391uW	2490.830	0.74131uW	25uW	Pass
	2496.5MHz to 12500.0MHz	6898.040	0.257632uW	11139.520	0.33266uW	2.5uW	Pass
V <sub>+10%</sub>	30.0MHz to 1000.0MHz	235.640	0.012823uW	932.100	0.015205uW	0.25uW	Pass
	1000.0MHz to 2387MHz	2312.100	0.190108uW	2331.520	0.094842uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2400.000	3.732502uW	2396.720	0.08356uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2492.570	0.08147uW	2490.930	0.711214uW	25uW	Pass
	2496.5MHz to 12500.0MHz	11259.560	0.172187uW	6938.050	0.192309uW	2.5uW	Pass
V <sub>-10%</sub>	30.0MHz to 1000.0MHz	825.400	0.015241uW	920.460	0.013335uW	0.25uW	Pass
	1000.0MHz to 2387MHz	2312.100	0.291072uW	2001.410	0.086896uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2399.970	3.006076uW	2397.790	0.090157uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2485.190	0.083176uW	2490.930	0.679204uW	25uW	Pass
	2496.5MHz to 12500.0MHz	4757.290	0.190985uW	6898.040	0.204644uW	2.5uW	Pass

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

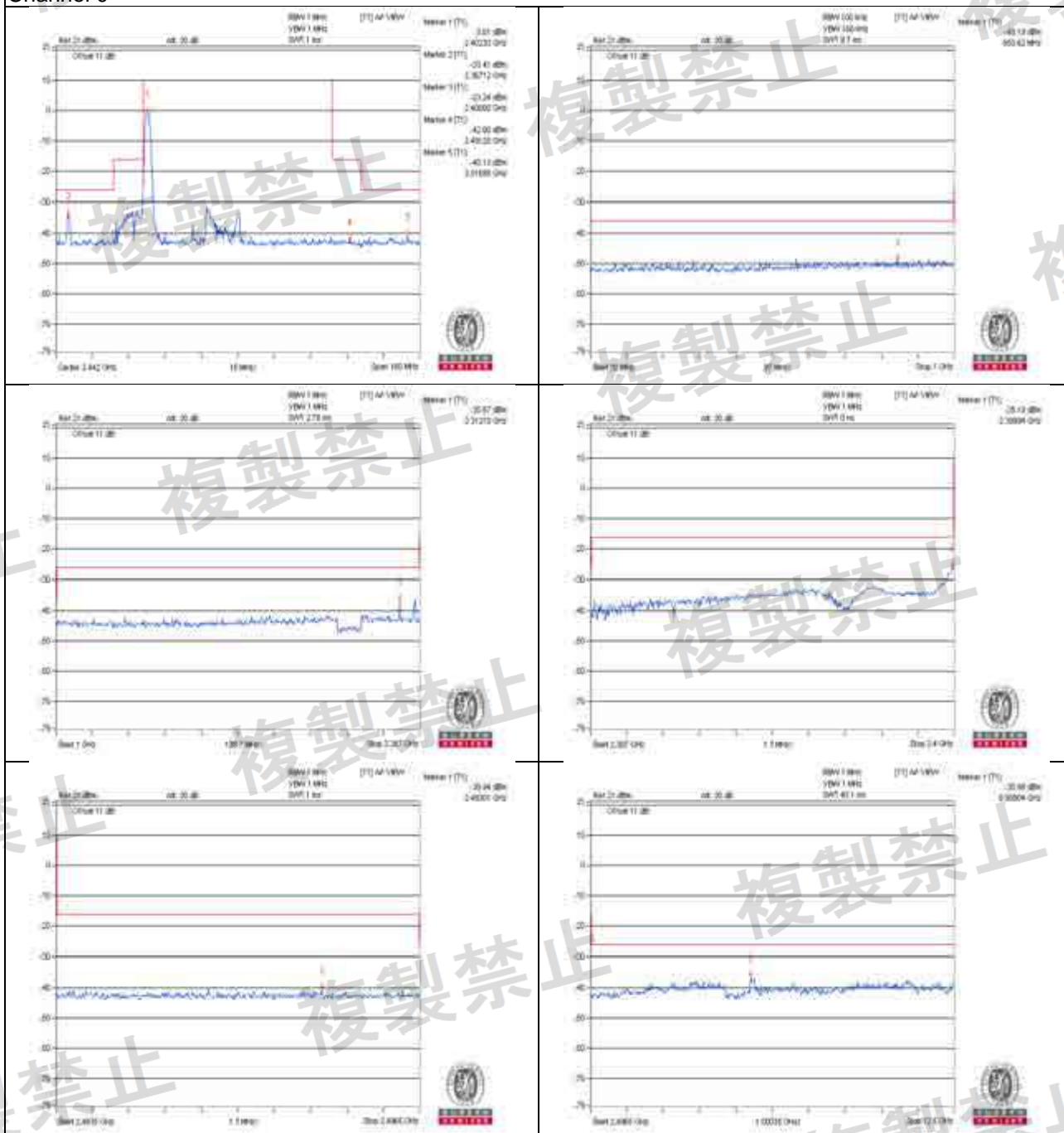


Environmental Conditions		25 deg.C, 68% RH			
Test Channel		CH 39 (2480MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value		
V <sub>normal</sub>	30.0MHz to 1000.0MHz	31.940	0.013521uW	0.25uW	Pass
	1000.0MHz to 2387MHz	2339.840	0.070469uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2396.620	0.088716uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2490.880	0.74131uW	25uW	Pass
	2496.5MHz to 12500.0MHz	6998.070	0.213304uW	2.5uW	Pass
V <sub>+10%</sub>	30.0MHz to 1000.0MHz	823.460	0.013996uW	0.25uW	Pass
	1000.0MHz to 2387MHz	1454.930	0.069343uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2389.150	0.094189uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2490.830	0.736207uW	25uW	Pass
	2496.5MHz to 12500.0MHz	11279.570	0.234963uW	2.5uW	Pass
V <sub>-10%</sub>	30.0MHz to 1000.0MHz	786.600	0.014825uW	0.25uW	Pass
	1000.0MHz to 2387MHz	2226.100	0.077446uW	2.5uW	Pass
	2387.0MHz to 2400.0MHz	2392.200	0.092897uW	25uW	Pass
	2483.5MHz to 2496.5MHz	2490.670	0.74131uW	25uW	Pass
	2496.5MHz to 12500.0MHz	7438.220	0.22182uW	2.5uW	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.



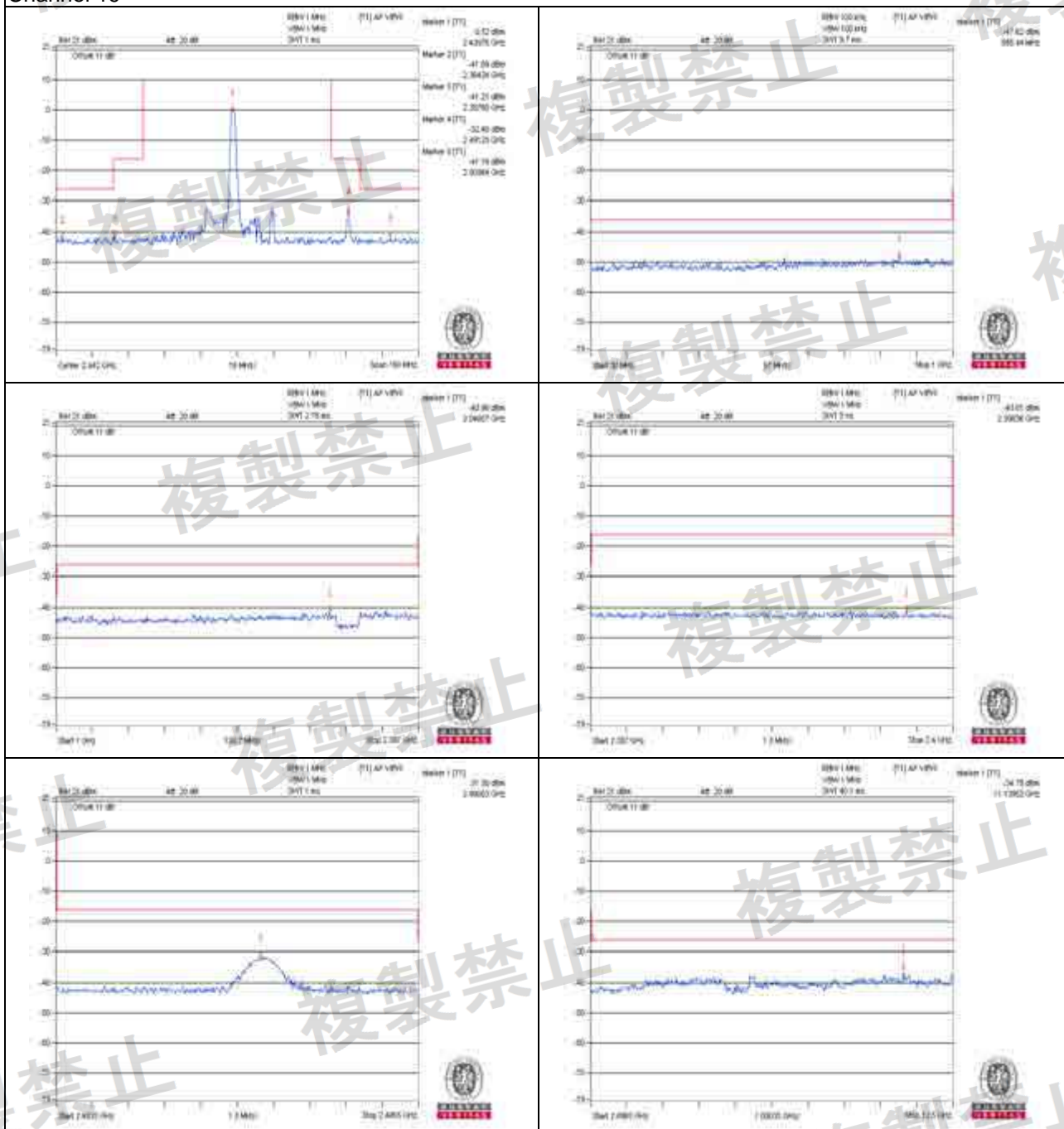
Vnormal  
Channel 0



Measurement uncertainty:  $\pm 3.93\text{dB}$



Vnormal  
Channel 19

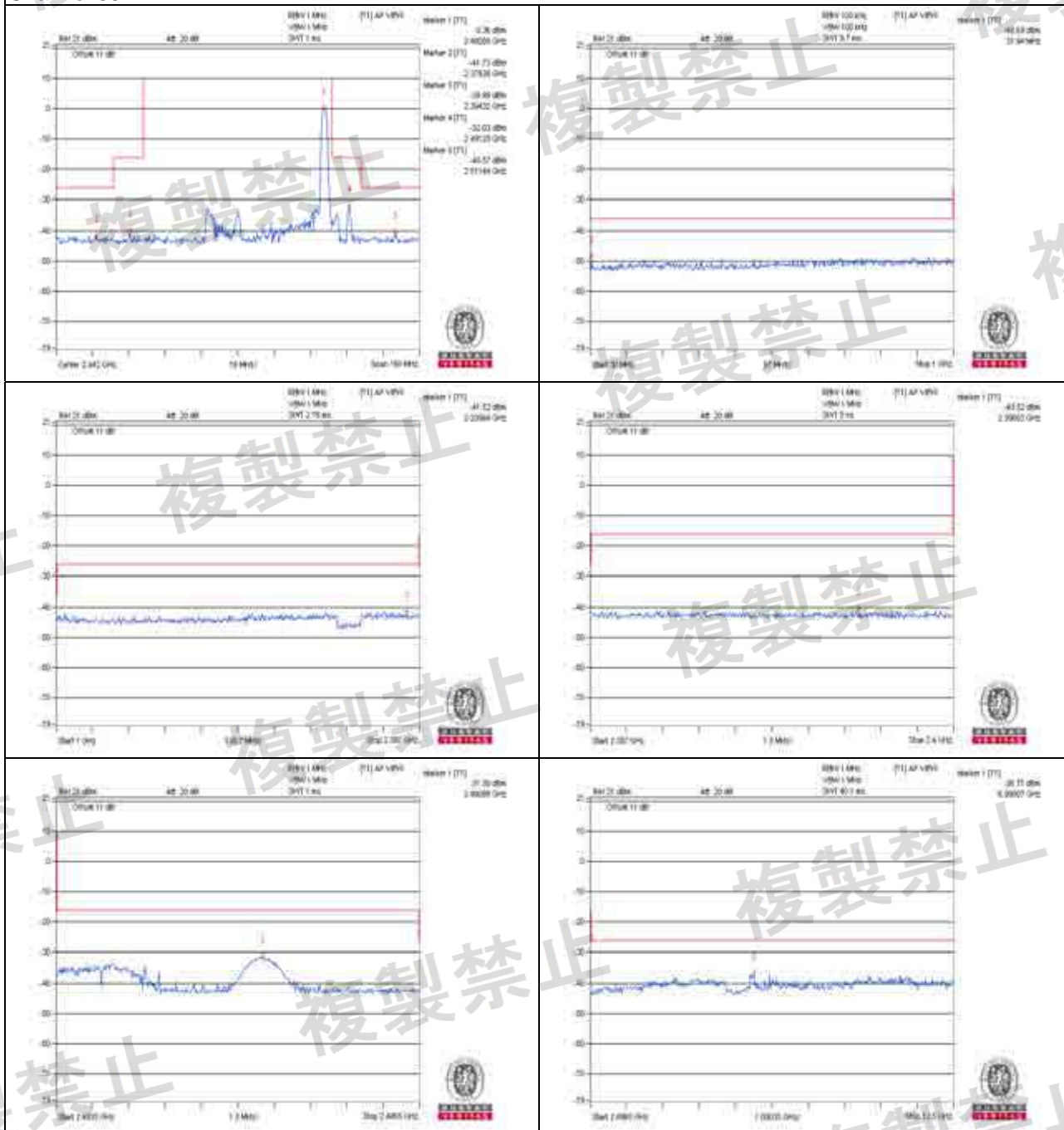


Measurement uncertainty:  $\pm 3.93\text{dB}$





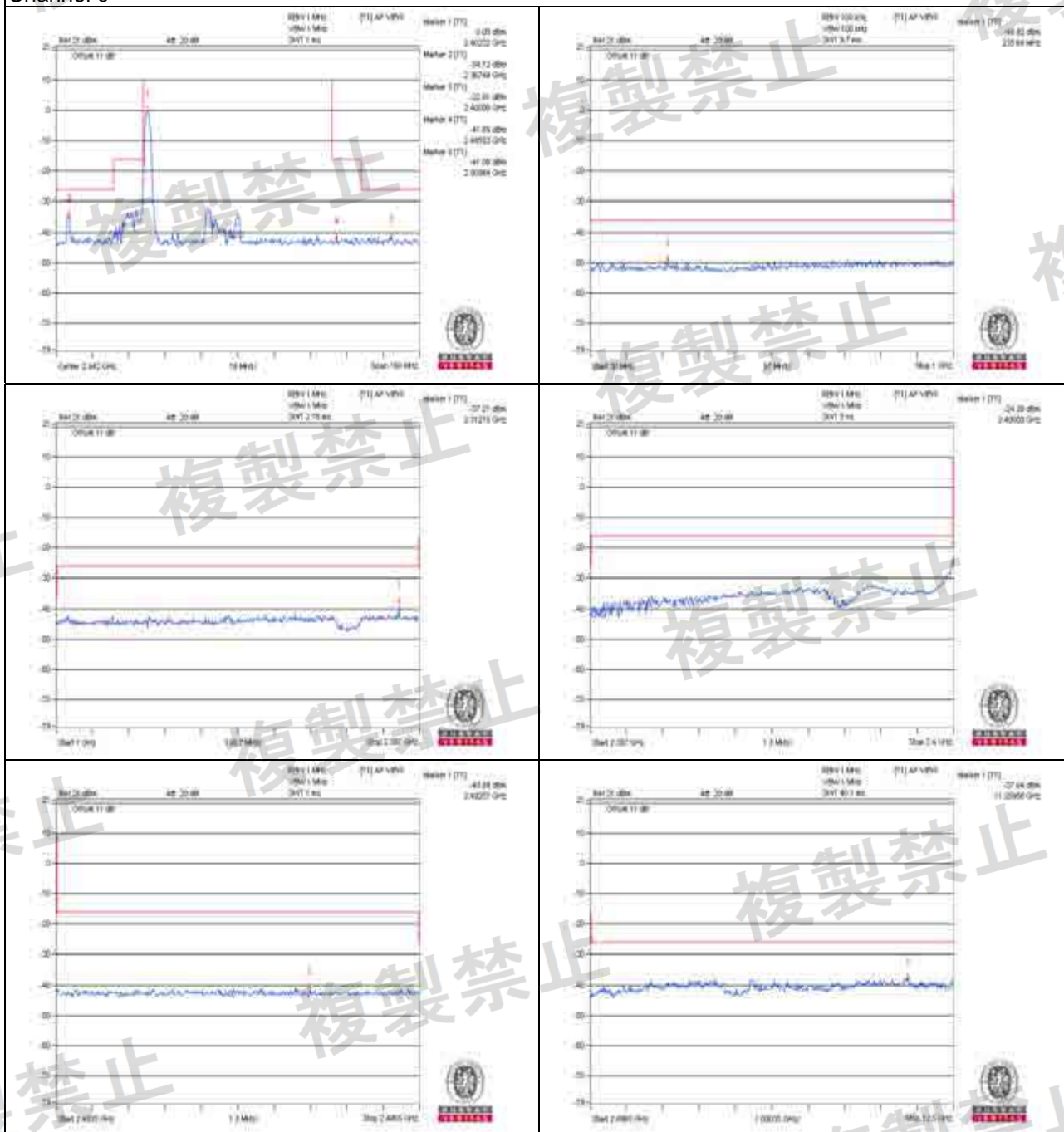
# Vnormal Channel 39



Measurement uncertainty:  $\pm 3.93\text{dB}$



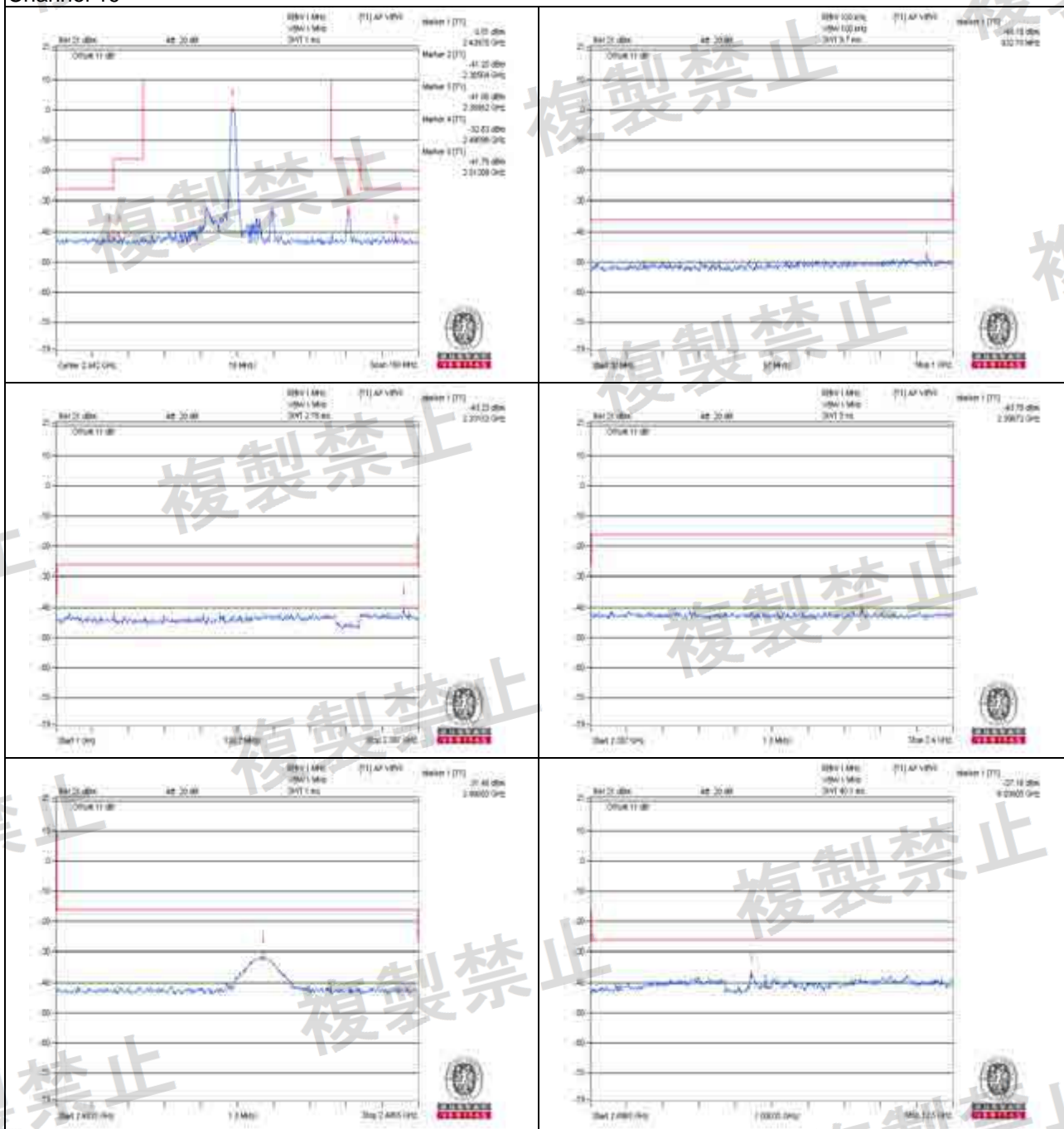
V+10%  
Channel 0



Measurement uncertainty:  $\pm 3.93\text{dB}$



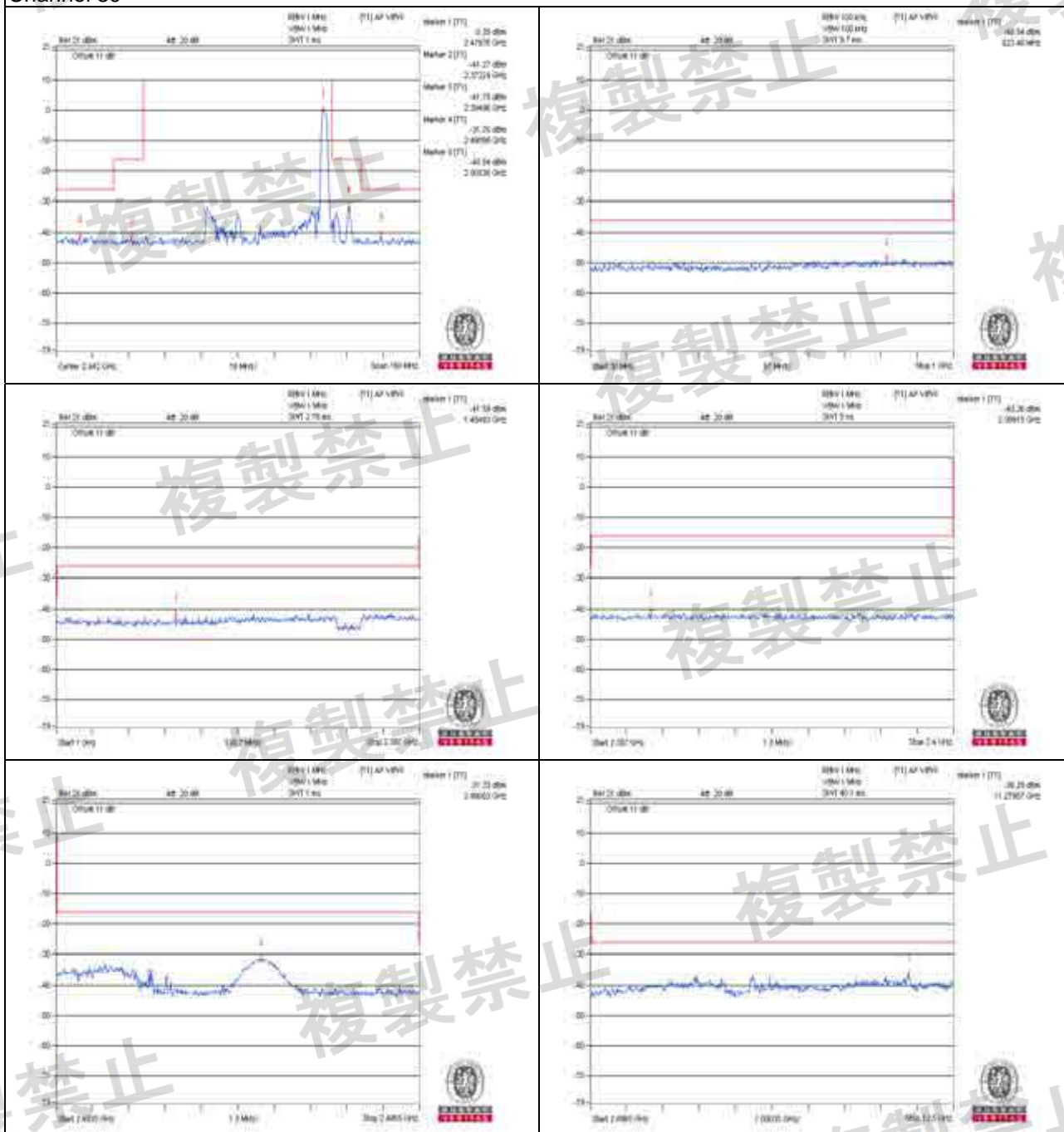
V+10%  
Channel 19



Measurement uncertainty:  $\pm 3.93\text{dB}$



V+10%  
Channel 39

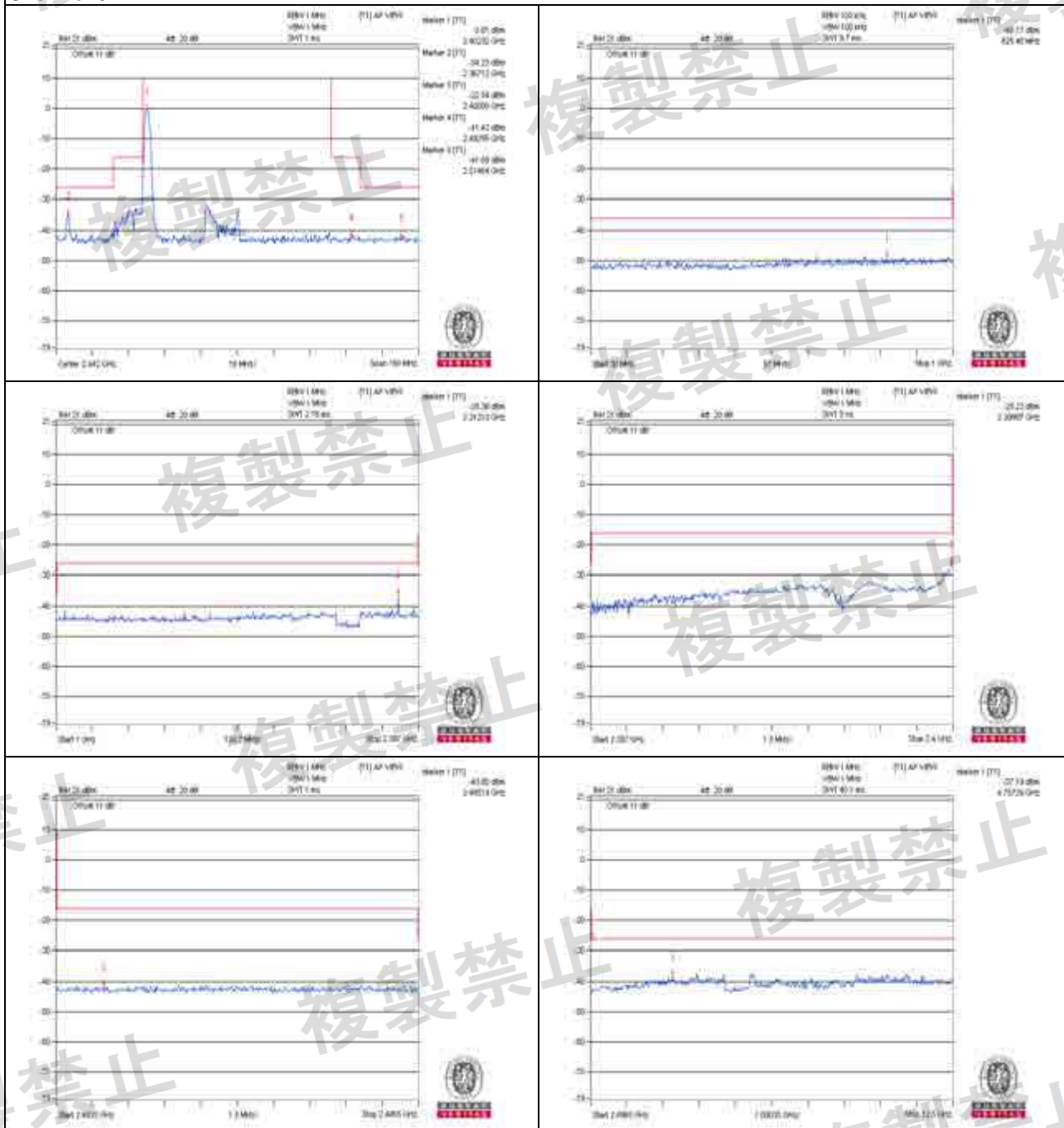


Measurement uncertainty:  $\pm 3.93\text{dB}$





V-10%  
Channel 0

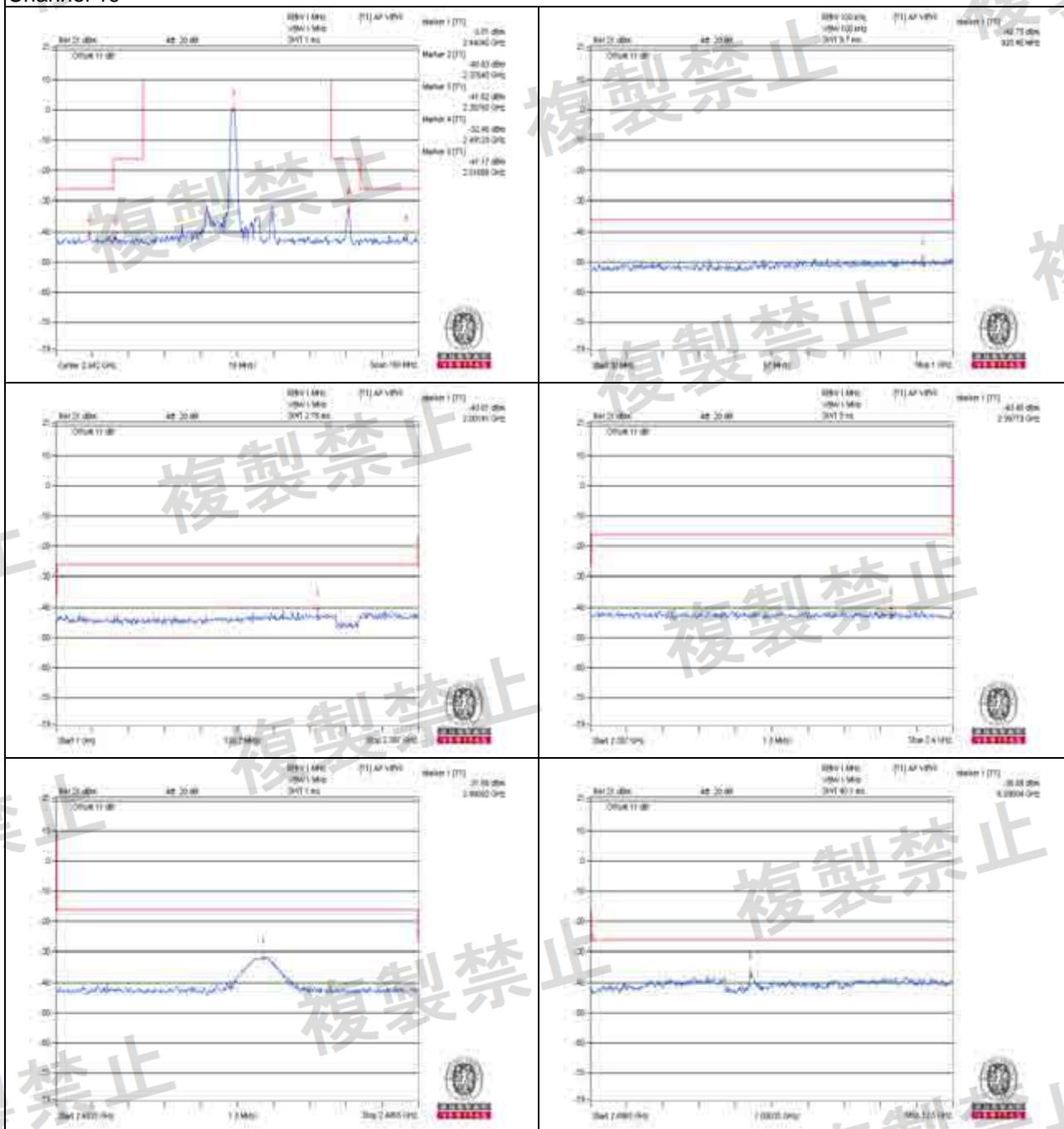


Measurement uncertainty:  $\pm 3.93\text{dB}$





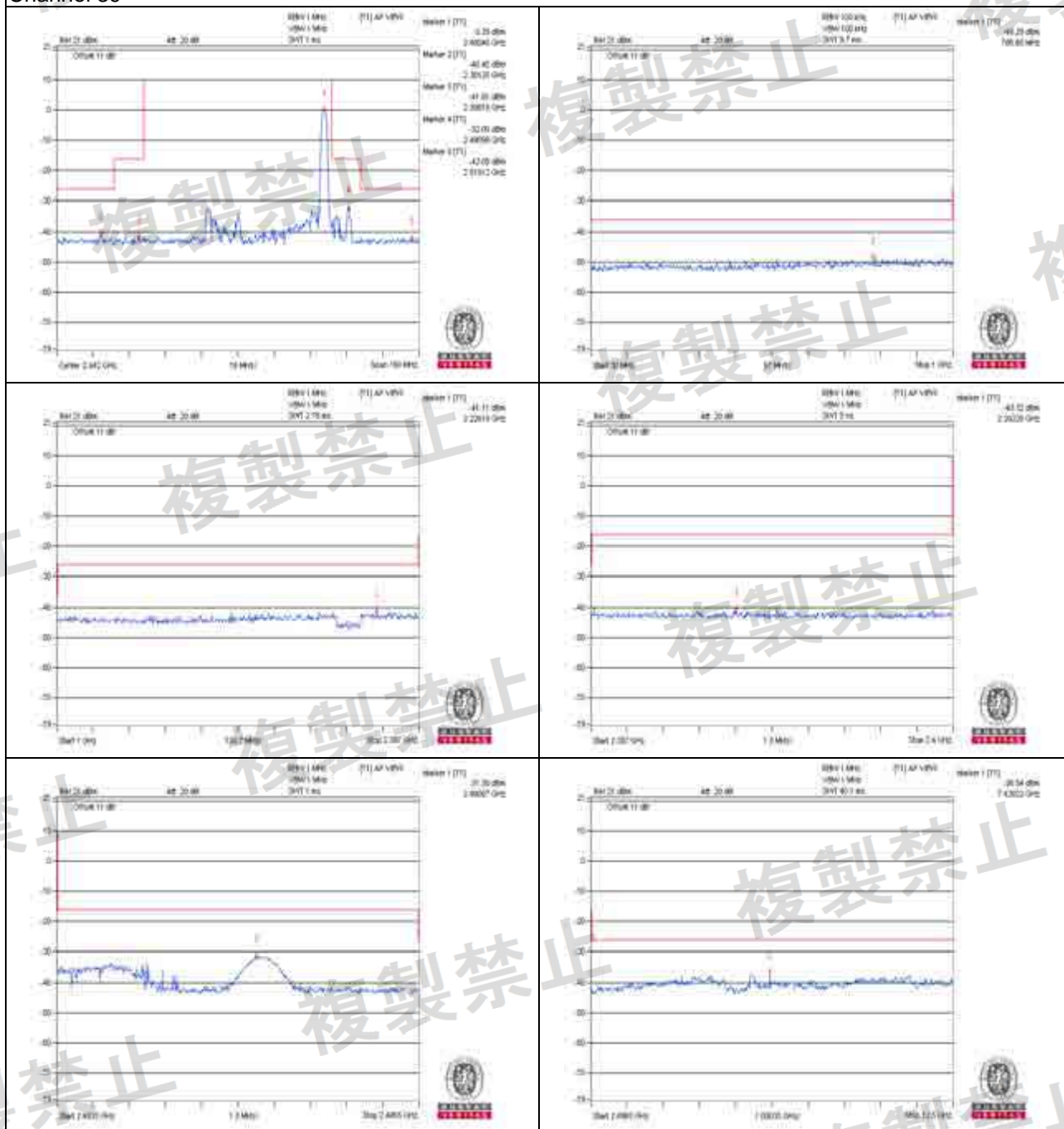
V-10%  
Channel 19



Measurement uncertainty:  $\pm 3.93\text{dB}$



V-10%  
Channel 39



Measurement uncertainty:  $\pm 3.93\text{dB}$



## 4.5 Antenna Power Measurement

### 4.5.1 Limits of Antenna Power

Antenna power shall be 10mW or less.

Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

### 4.5.2 Test Setup



### 4.5.3 Test Results

Environmental Conditions	25 deg.C, 68% RH			
Test Condition	Conducted RF Output Power Density (mW/MHz)			
	Channel 0 2402MHz	Channel 19 2440MHz	Channel 39 2480MHz	Max. Limit (mW/MHz)
V <sub>normal</sub>	0.97	1.09	1.09	10
V <sub>+10%</sub>	0.97	1.09	1.09	10
V <sub>-10%</sub>	0.98	1.09	1.08	10
Rated Power	1.00mW			
Tolerance of Antenna Power	0.20mW ~ 1.20mW			

Note: Output power tolerance (%) =  $\{(1.09 - 1.00) / 1.00\} * 100 = 9.00\%$ .

### Printed antenna with antenna gain: -2dBi

Environmental Conditions	25 deg.C, 68% RH			
Test Condition	Radiated RF Output Power Density (mW/MHz)			
	Channel 0 2402MHz	Channel 19 2440MHz	Channel 39 2480MHz	Max. Limit (mW/MHz)
V <sub>normal</sub>	0.62	0.69	0.69	16.368
V <sub>+10%</sub>	0.62	0.69	0.69	16.368
V <sub>-10%</sub>	0.62	0.69	0.68	16.368

Note: 1. The radiated RF output power density is a “calculated” value derived from the conducted value.  
2. Formula: Radiated RF output power density = Conducted RF output power density + Antenna Gain.



#### 4.6 Spurious Emissions for Receiver

##### 4.6.1 Limits of Spurious Emissions For Receiver

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

##### 4.6.2 Test Setup





#### 4.6.3 Test Result

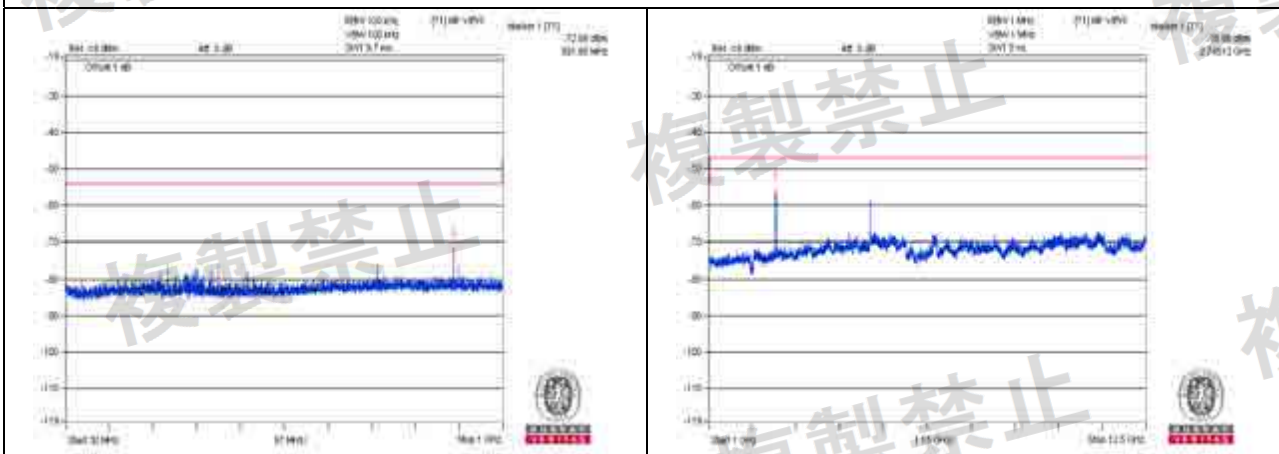
Environmental Conditions		25 deg.C, 68% RH					
Test Channel		CH0 (2402MHz)		CH19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value	Frequency (MHz)	Measured Value		
V <sub>normal</sub>	Below 1GHz	891.600	0.053951nW	256.010	0.020417nW	4nW	Pass
	Above 1GHz	2745.120	2.051162nW	2791.120	1.5417nW	20nW	Pass
V <sub>+10%</sub>	Below 1GHz	368.040	0.022542nW	368.040	0.02133nW	4nW	Pass
	Above 1GHz	2748.000	2.051162nW	2791.120	1.499685nW	20nW	Pass
V <sub>-10%</sub>	Below 1GHz	897.660	0.108143nW	885.780	0.023335nW	4nW	Pass
	Above 1GHz	2748.000	1.967886nW	2791.120	1.503142nW	20nW	Pass
Test Channel		CH39(2480MHz)				Limit	Result
Test Condition	Frequency Range	Frequency (MHz)		Measured Value			
V <sub>normal</sub>	Below 1GHz	368.040		0.024774nW		4nW	Pass
	Above 1GHz	2837.120		0.935406nW		20nW	Pass
V <sub>+10%</sub>	Below 1GHz	892.080		0.054954nW		4nW	Pass
	Above 1GHz	2837.120		1nW		20nW	Pass
V <sub>-10%</sub>	Below 1GHz	368.040		0.01932nW		4nW	Pass
	Above 1GHz	2837.120		0.891251nW		20nW	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.

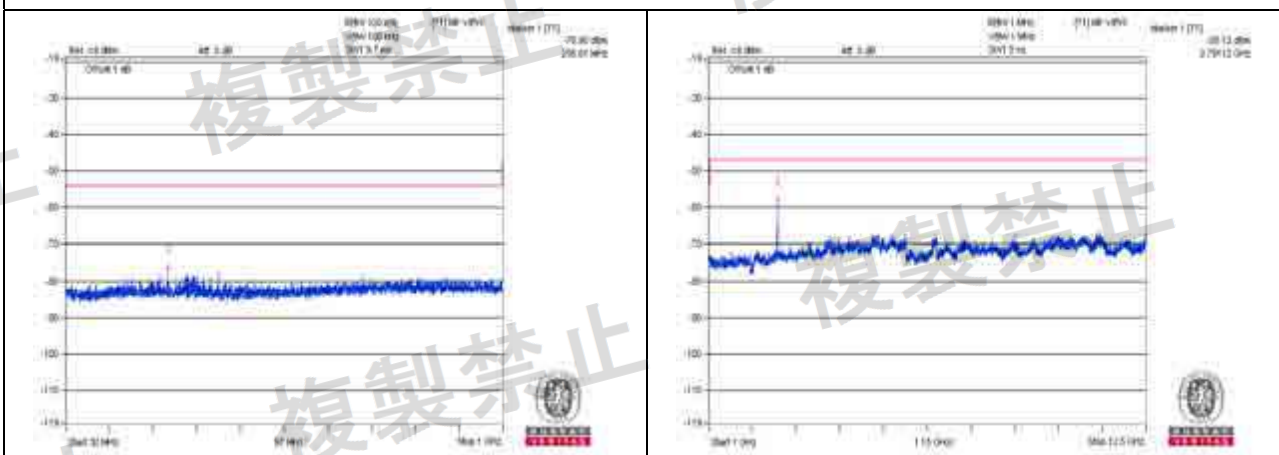




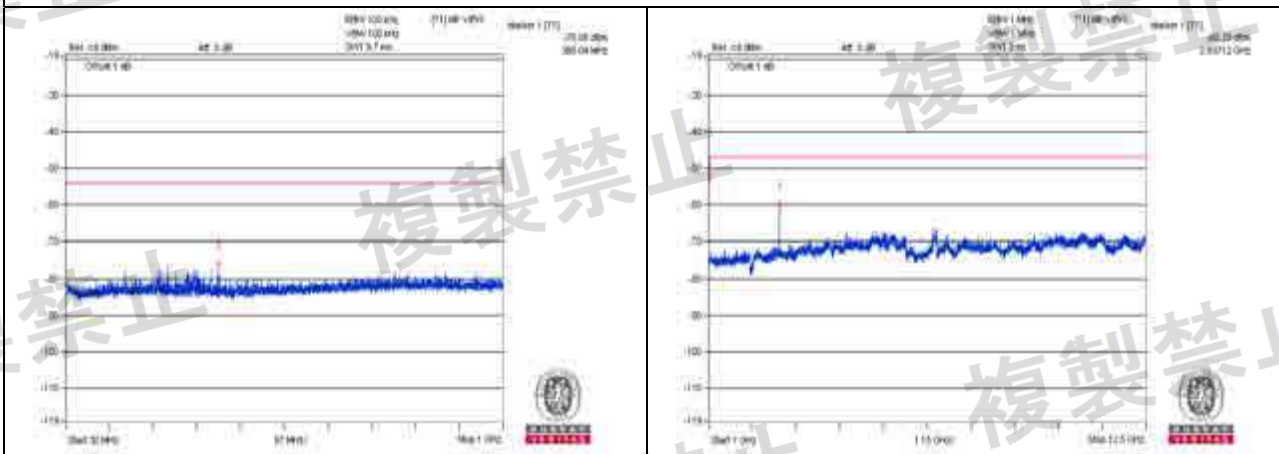
## Vnormal



## Channel 0



## Channel 19

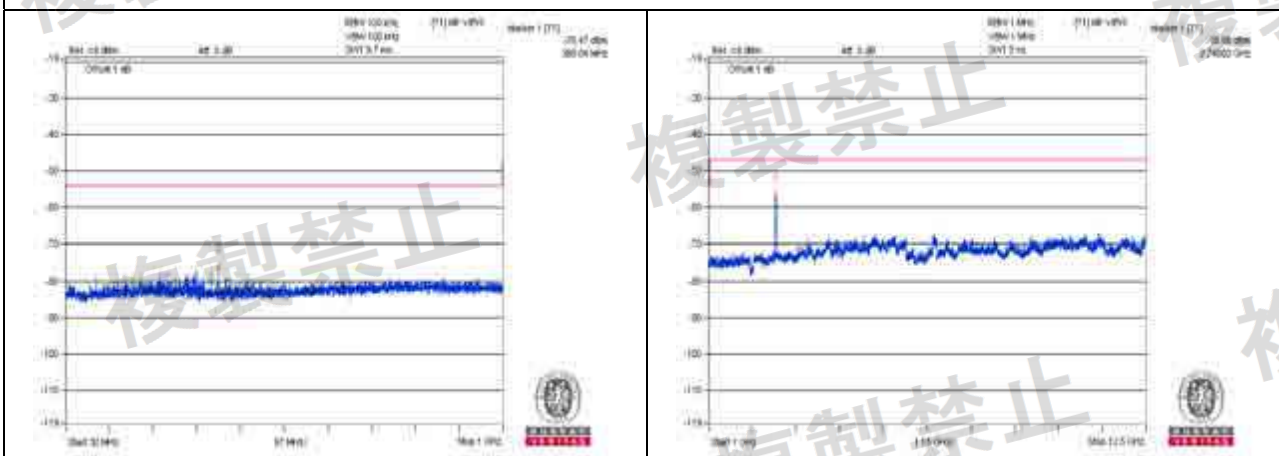


## Channel 39

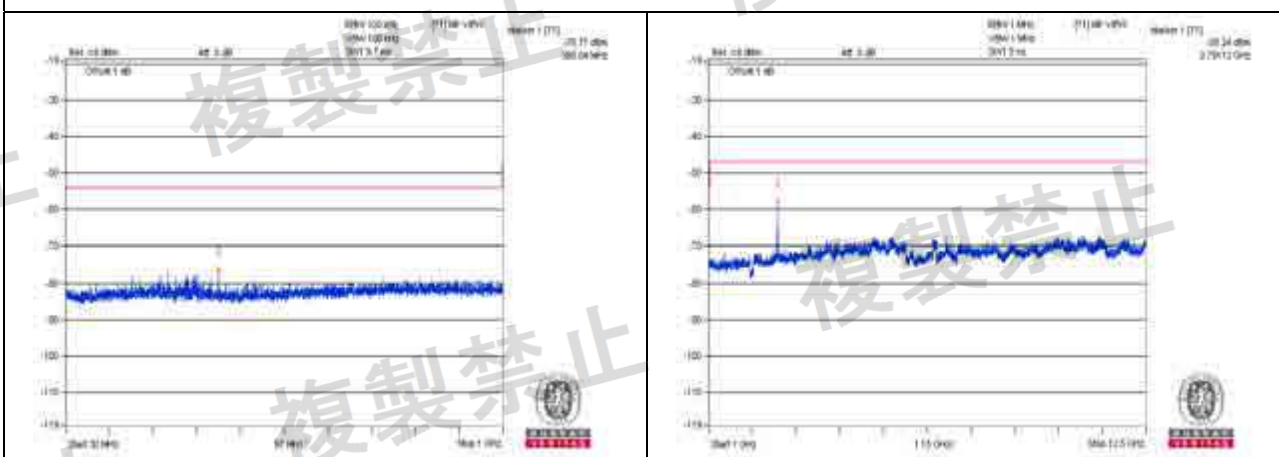
Measurement uncertainty:  $\pm 3.93\text{dB}$



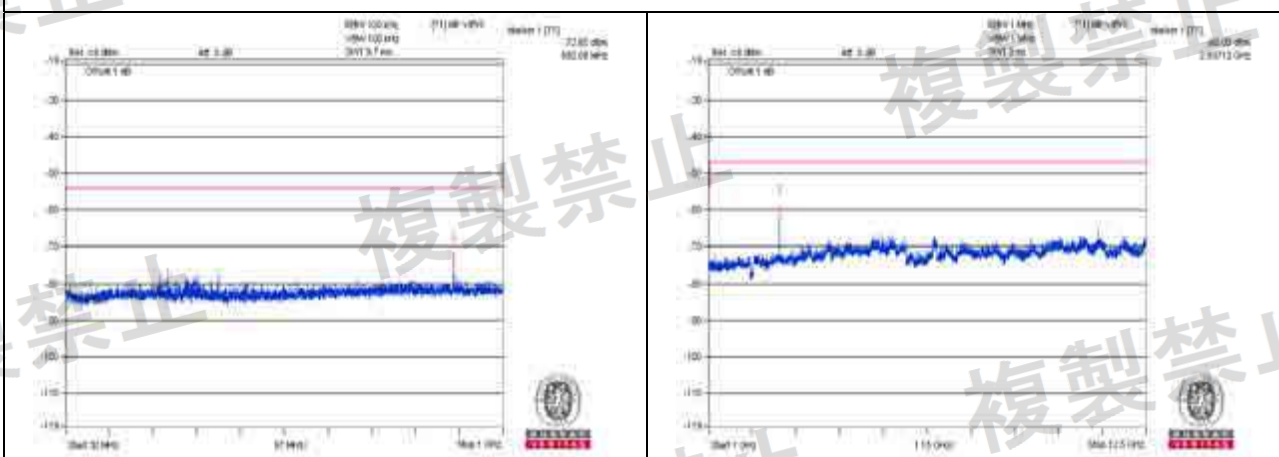
V<sub>+10%</sub>



Channel 0



Channel 19

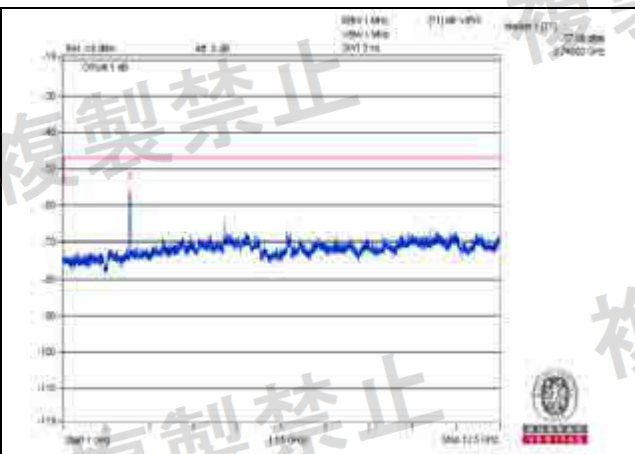
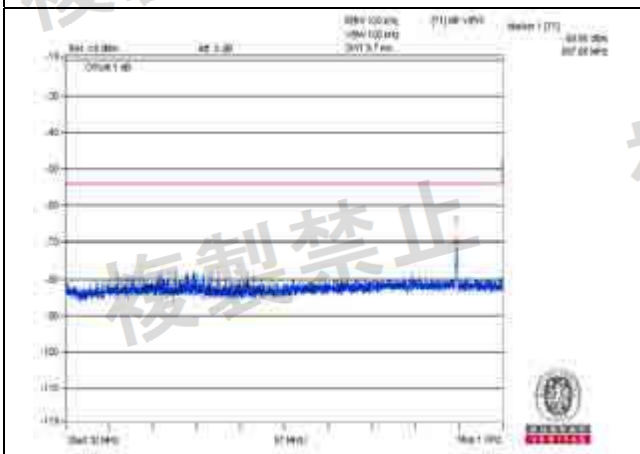


Channel 39

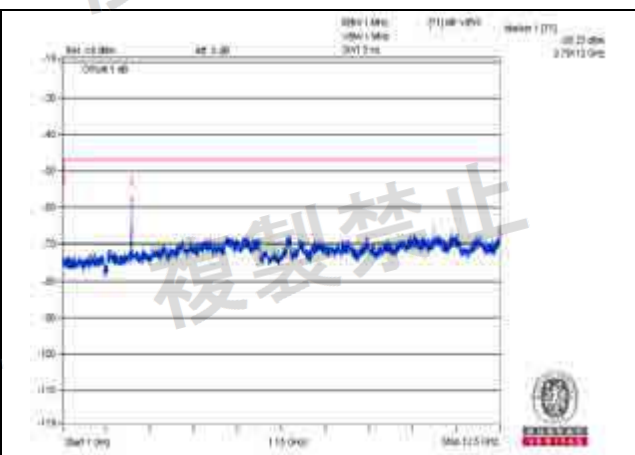
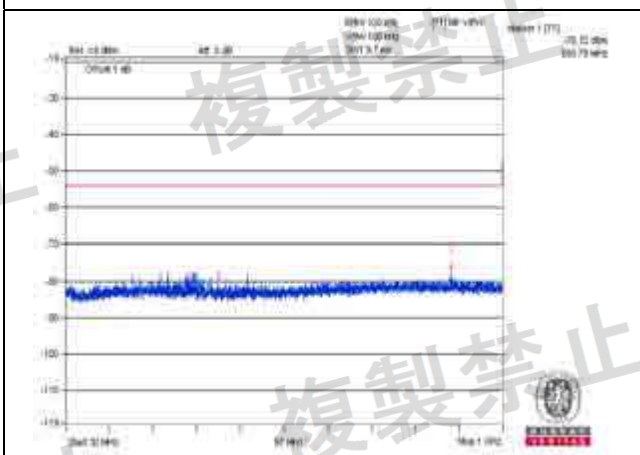
Measurement uncertainty:  $\pm 3.93\text{dB}$



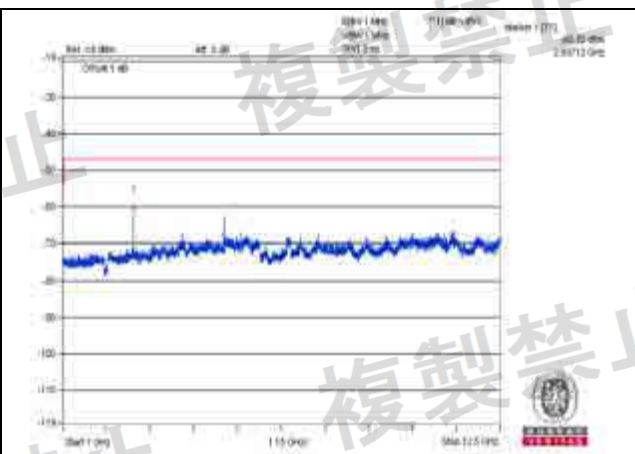
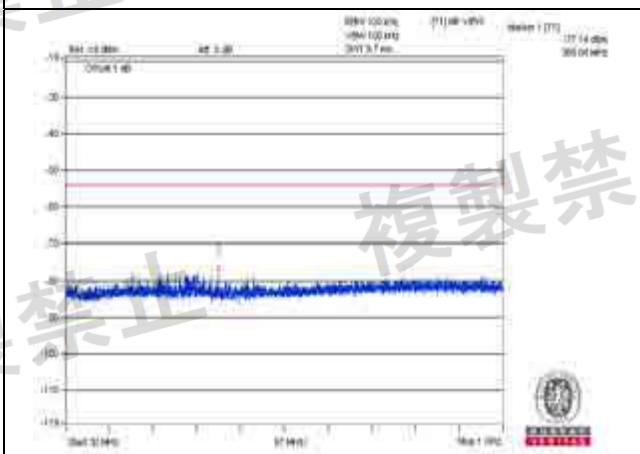
V-10%



Channel 0



Channel 19



Channel 39

Measurement uncertainty:  $\pm 3.93\text{dB}$

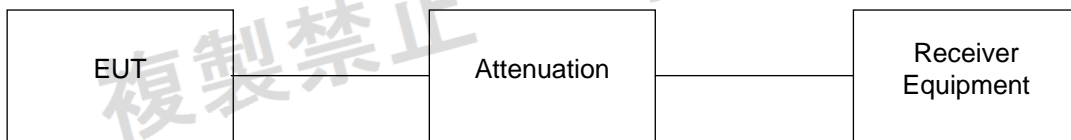


#### 4.7 Interference Prevention Function

##### 4.7.1 Limits of Interference Prevention Function

NA

##### 4.7.2 Test Setup



##### 4.7.3 Test Results

Environmental Conditions	25 deg.C, 68% RH
Link Mode	Test Result
Bluetooth LE	Pass



## 5 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration	Calibration Authority	Calibration Method
Spectrum Analyzer / Rohde & Schwarz	FSV40	100979	Feb. 19, 2016	Feb. 18, 2017	ETC	Refer to Note 2
Signal Generator / Agilent	E4438C	MY49071692	Sep. 19, 2016	Sep. 18, 2017	ETC	Refer to Note 2
Power Meter / Anritsu	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017	ETC	Refer to Note 2
Power Sensor / Anritsu	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017	ETC	Refer to Note 2

### 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. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency. (1) Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch.





## 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.

If you have any comments, please feel free to contact us at the following:

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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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