

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: Certification Ordinance Article 2-1-19
Report No.: RJBEKC-WTW-P21070618E
Product: Dongle
Brand: DELL
Model No.: UD2203t
Received Date: 2025/12/16
Test Date: 2026/1/5 ~ 2026/1/9
Issued Date: 2026/1/21
Applicant: Lite-On Technology Corporation
Address: 22F., No.392, Ruey Kuang Rd., Neihu Dist., Taipei City 114, Taiwan
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
Test Location: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Approved by:

Jeremy Lin

, Date:

2026/1/21

Jeremy Lin / Project Engineer

This test report consists of 39 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.

Prepared by : Jessica Cheng / Senior Specialist



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	3
1 Certificate	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 General Description	6
3.2 Output Power Description of EUT	6
3.3 Antenna Description of EUT	7
3.4 Channel List	8
3.5 Power Setting	8
3.6 Test Mode Applicability and Tested Channel Detail	9
4 Test Instruments	10
4.1 Frequency Tolerance	10
4.2 Occupied Bandwidth	10
4.3 Spurious Emissions	10
4.4 Spurious Emissions of Receiver	10
4.5 Antenna Power	11
4.6 Interference Prevention Function	11
5 Limits of Test Items	12
5.1 Frequency Tolerance	12
5.2 Occupied Bandwidth	12
5.3 Spurious Emissions	12
5.4 Spurious Emissions of Receiver	12
5.5 Antenna Power	12
5.6 Interference Prevention Function	13
6 Test Arrangements	14
6.1 Frequency Tolerance	14
6.2 Occupied Bandwidth	14
6.3 Spurious Emissions	14
6.4 Spurious Emissions of Receiver	14
6.5 Antenna Power	14
6.6 Interference Prevention Function	15
7 Test Results of Test Item	16
7.1 Frequency Tolerance	16
7.2 Occupied Bandwidth	17
7.3 Spurious Emissions	21
7.4 Spurious Emissions of Receiver	32
7.5 Antenna Power	36
7.6 Interference Prevention Function	37
8 Pictures of Test Arrangements	38
9 Information of the Testing Laboratories	39

Release Control Record

Issue No.	Description	Date Issued
RJBEKC-WTW-P21070618E	Original release.	2026/1/21

1 Certificate

Product: Dongle

Brand: DELL

Test Model: UD2203t

Sample Status: Engineering sample

Applicant: Lite-On Technology Corporation

Test Date: 2026/1/5 ~ 2026/1/9

Standard: Certification Ordinance Article 2-1-19

Measurement procedure: 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 RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Certification Ordinance Article 2-1-19		
Clause	Test Item	Result
OR: Article 5 OR: Annex 1 table 7-8	Frequency Tolerance	Pass
OR: Article 6 Annex 2.30	Occupied Bandwidth	Pass
OR: Article 7. Annex 3.26	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 24.2	Spurious Emissions of Receiver	Pass
OR: Article 49-20	Housing Requirements	Pass (Refer to Note 1)
OR: Article 49-20	Antenna Power	Pass
OR: Article 49-20	Absolute Gain of Transmitting Antenna	Pass
OR: Article 49-20	Angular Width of Principal Radiation (AWPR)	N/A
OR: Article 49-20	Number of Carriers within 1 MHz Bandwidth in OFDM	N/A
OR: Article 49-20	Dwell Time (FH employed)	N/A
OR: Article 9-4.5 RE: Article 6-2.3 RE: Article 6-2.5	Interference Prevention Function	Pass
OR: Article 49-20	Carrier Sense Capability	N/A

Notes:

1. The relative information refer section 3.1 of this report.
2. OR: Ordinance Regulating Radio Equipment
3. RE: Regulations for Enforcement of the radio law
4. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)
Occupied Bandwidth	960 Hz
Spurious Emissions	2.7 dB
Output Power Density	1.3 dB
Frequency Tolerance	97.75 Hz

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	Dongle
Brand	DELL
Test Model	UD2203t
Test Software Version	PixArt EMI_Test_V1.2.8
Status of EUT	Engineering sample
Power Supply Rating	5Vdc from USB port
Modulation Type	GFSK
Transfer Rate	1 Mbps
Operating Frequency	2.405 GHz ~ 2.474 GHz
Number of Channel	12
Housing Requirements	The plastic enclosure is sealed firmly and separating the two parts was only possible by means of brute force

Note:

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 Output Power Description of EUT

Operation Mode	Rated Output Power (mW)	Maximum Conducted RF Output Power (mW)	Maximum Radiated RF Output Power (mW)
GFSK	2	1.656	0.843

3.3 Antenna Description of EUT

1. The antenna information is listed as below.

Gain (dBi)	Antenna Type	Connector Type
-2.93	PCB Layout Printing	none

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

3.4 Channel List

12 channels are provided to this EUT:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	7	2442
2	2407	8	2447
3	2418	9	2458
4	2426	10	2469
5	2430	11	2471
6	2437	12	2474

3.5 Power Setting

Channel	Power Setting
1	4
7	4
12	4

3.6 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vdc)
V_{normal}	5
$V_{max.}$	5.5
$V_{min.}$	4.5

Following channel(s) was (were) selected for the final test as listed below:

Test Item	Tested Channel	Modulation	Data Rate Parameter
Frequency Tolerance	1, 7, 12	Unmodulated	-
Occupied Bandwidth	1, 7, 12	GFSK	1Mb/s
Spurious Emissions	1, 7, 12	GFSK	1Mb/s
Spurious Emissions of Receiver	1, 7, 12	-	-
Antenna Power	1, 7, 12	GFSK	1Mb/s
Interference Prevention Function	Normal Operation		

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Frequency Tolerance

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Digital Multimeter Fluke	8050A	4660081	2025/6/6	2026/6/5	ETC	(c)
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
HV Probe Fluke	80K-40HV	9606869	2025/6/10	2026/6/9	ETC	(c)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
PXA Signal Analyzer Keysight	N9030A	MY54490260	2025/7/24	2026/7/23	ETC	(c)
Signal Analyzer R&S	FSV40	101544	2025/7/1	2026/6/30	ETC	(c)
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A	N/A	N/A

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in LK - Oven
- Tested Date: 2026/1/5

4.2 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.3 Spurious Emissions

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 Spurious Emissions of Receiver

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Antenna Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Digital Multimeter Fluke	8050A	4660081	2025/6/6	2026/6/5	ETC	(c)
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
HV Probe Fluke	80K-40HV	9606869	2025/6/10	2026/6/9	ETC	(c)
Programmable DC Power Supply IDRC	DSP80-180WE	701217	Note 2	Note 2	BV CPS E&E	(d)
Pulse Power Sensor Anritsu	MA2411B	1339443	2025/5/28	2026/5/27	ETC	(c)
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2	ETC	(c)
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in LK - Oven
- Tested Date: 2026/1/5

4.6 Interference Prevention Function

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22	BV CPS E&E	(d)
Wireless Connectivity Tester R&S	CMW270	101075	2025/7/14	2026/7/13	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The test was performed in LK - Adaptivity room.
- Tested Date: 2026/1/9

5 Limits of Test Items

5.1 Frequency Tolerance

Tolerance of frequency shall be +/- 50ppm.

5.2 Occupied Bandwidth

Modulation Method	Limit
DSSS	<26 MHz
OFDM	<26 MHz
	26 – 40 MHz
FHSS	<83.5 MHz
Other Digital	<26 MHz

5.3 Spurious Emissions

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

5.4 Spurious Emissions of Receiver

Frequencies	Limit
Below 1 GHz	$\leq 4 \text{ nW}$
Above 1 GHz	$\leq 20 \text{ nW}$

5.5 Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	E.I.R.P. Limit (Note 3)
DSSS	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz ~ 22.14 dBm/MHz (16.368 mW/MHz ~ 163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5 mW/MHz	9.13 dBm/MHz ~ 19.13 dBm/MHz (8.184 mW/MHz ~ 81.84 mW/MHz)
FHSS	2400 – 2483.5 MHz	3 mW/MHz	6.91 dBm/MHz ~ 16.91 dBm/MHz (4.91 mW/MHz ~ 49.10 mW/MHz)
Other Digital	2400 – 2483.5 MHz	10 mW	12.14 dBm ~ 22.14 dBm (16.368 mW ~ 163.68 mW)

Notes:

- Occupied bandwidth is less than 26 MHz.
- Occupied bandwidth is more than 26 MHz and less than 40 MHz.
- E.I.R.P. limit is variable by the HPBA, the HPBA (half-power beam width) of the antenna shall be 360 / A degrees or less, where A = E.I.R.P. / (2.14 dB + "Antenna Power (limit)").
- Tolerance of antenna power shall be +20% (upper value).

5. When an E.I.R.P. is less than 2.14 dBi + antenna power limit. The shortage can be compensated for by the antenna power. (Application to transmitting devices using "Other method" is Limited to "GFSK")

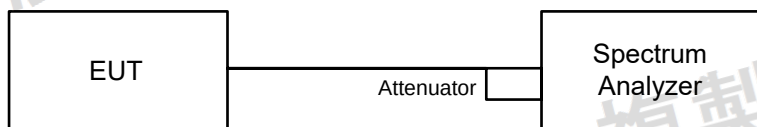
5.6 Interference Prevention Function

When conducting wireless communications that transmit data or other information: A function that automatically sends or receives an identification code.

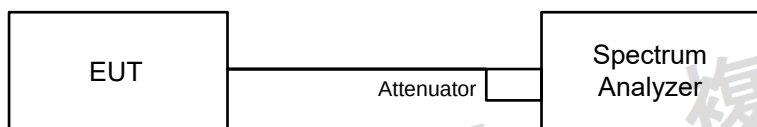
When performing radiolocation work: A function that allows you to distinguish between reflected waves of radio waves transmitted by your own station and radio waves transmitted by other radio stations by identifying the modulation method and other characteristics of received radio waves. (However, if it also has the function of transmitting signals for data transmission, both functions shall be included.)

6 Test Arrangements

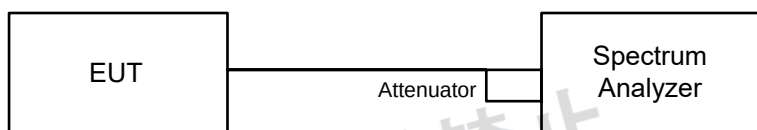
6.1 Frequency Tolerance



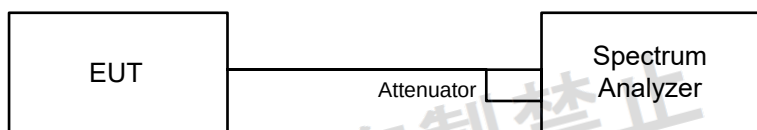
6.2 Occupied Bandwidth



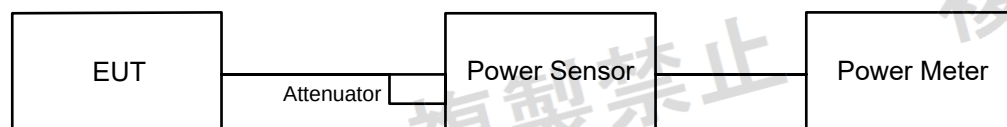
6.3 Spurious Emissions



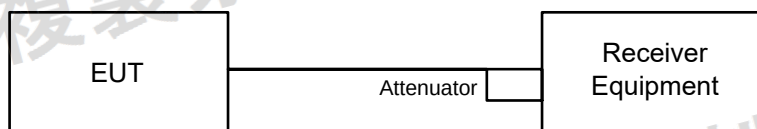
6.4 Spurious Emissions of Receiver



6.5 Antenna Power



6.6 Interference Prevention Function



7 Test Results of Test Item

7.1 Frequency Tolerance

Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
---------------------------	--------------	------------	-----------

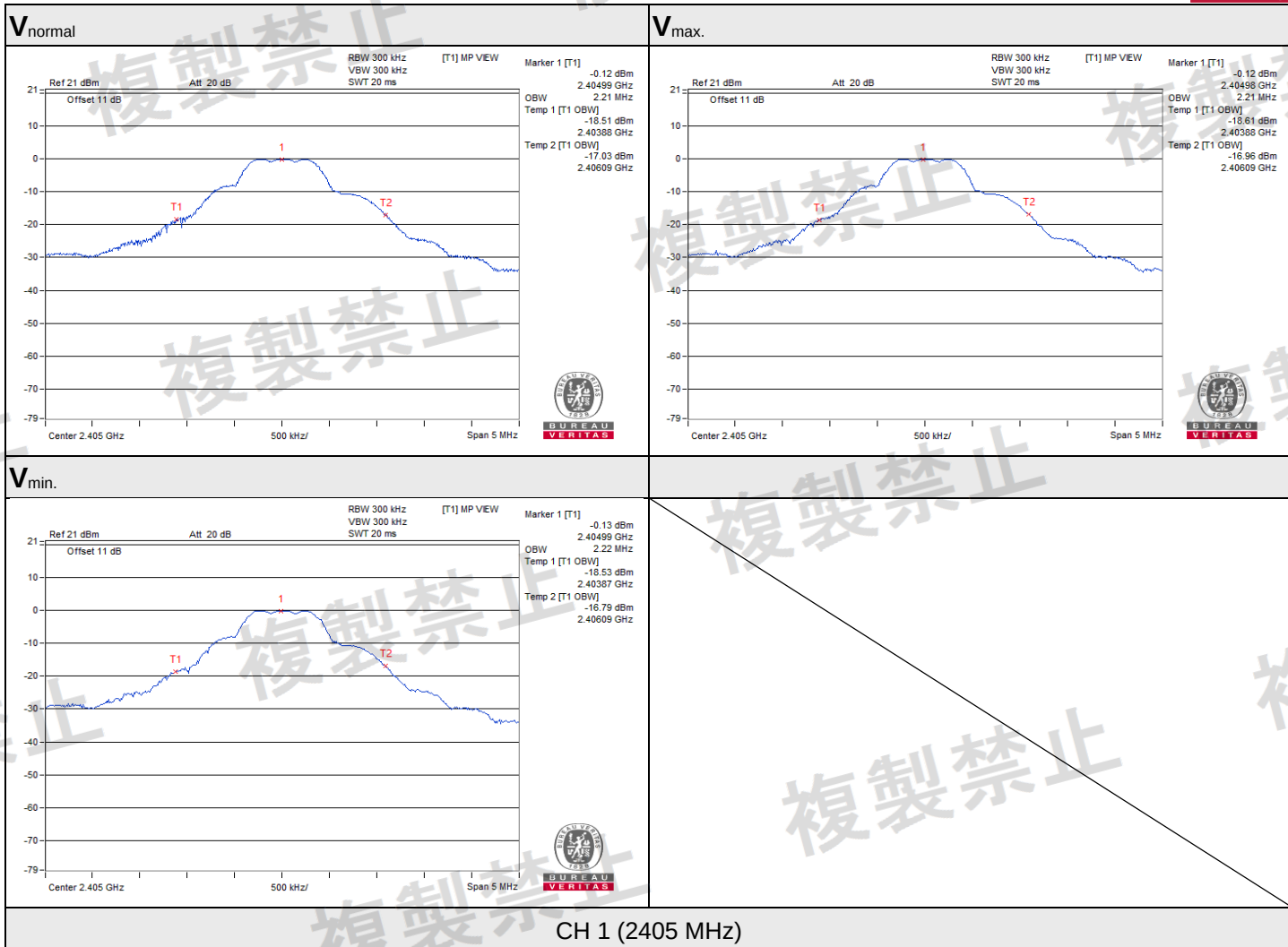
Channel	Frequency (MHz)	V_{normal}		$V_{max.}$		$V_{min.}$	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
1	2405	2404.997879	-0.882	2404.998039	-0.815	2404.997880	-0.881
7	2442	2441.997839	-0.885	2441.997880	-0.868	2441.997760	-0.917
12	2474	2473.997760	-0.905	2473.997759	-0.906	2473.997720	-0.922

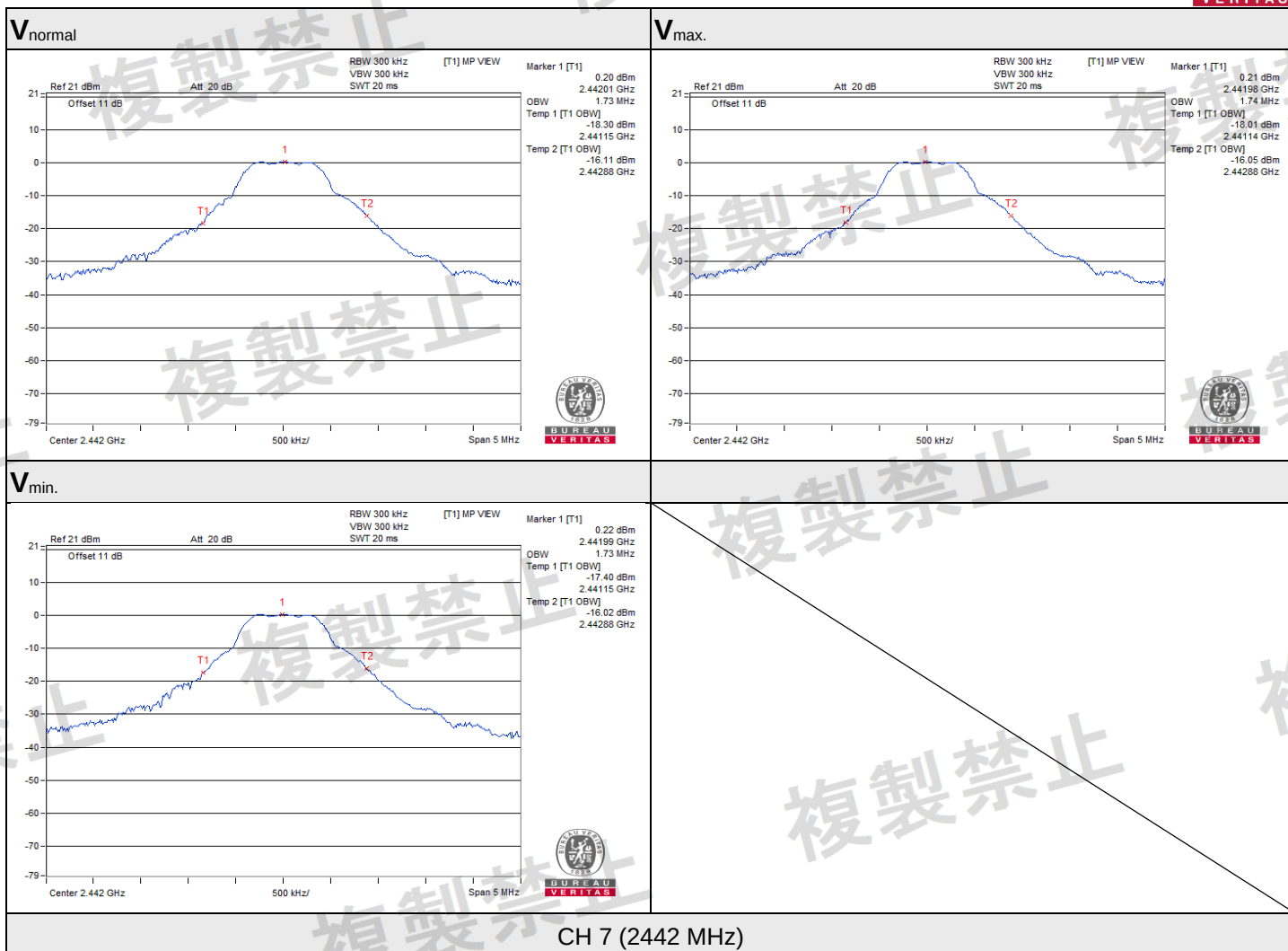
7.2 Occupied Bandwidth

Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
---------------------------	--------------	------------	-----------

Channel	Frequency (MHz)	V_{normal}	$V_{\text{max.}}$	$V_{\text{min.}}$
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
1	2405	2.21	2.21	2.22
7	2442	1.73	1.74	1.73
12	2474	1.37	1.37	1.37

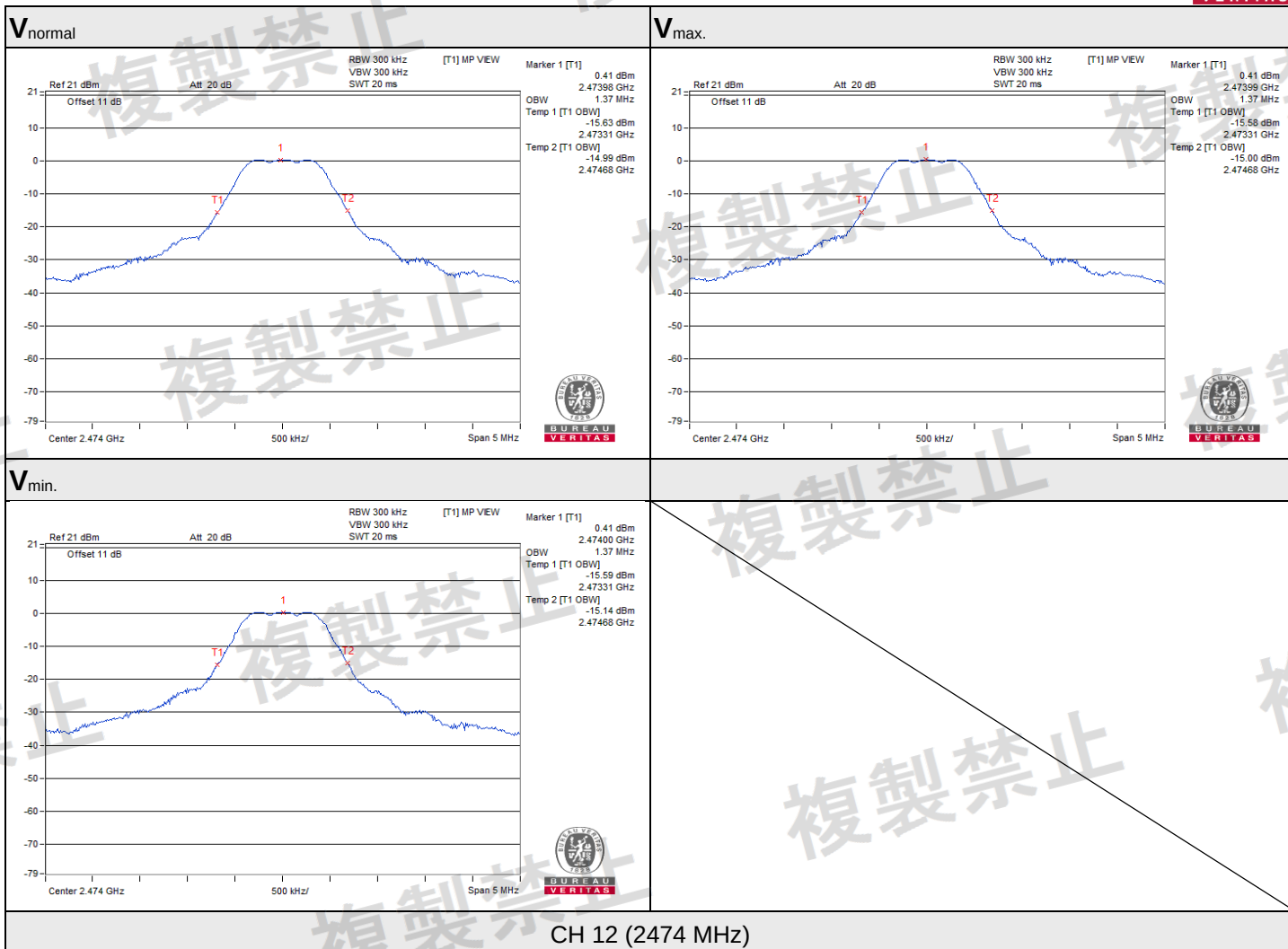
NOTE: For the test plots please refer to the below pages.







BUREAU
VERITAS



7.3 Spurious Emissions

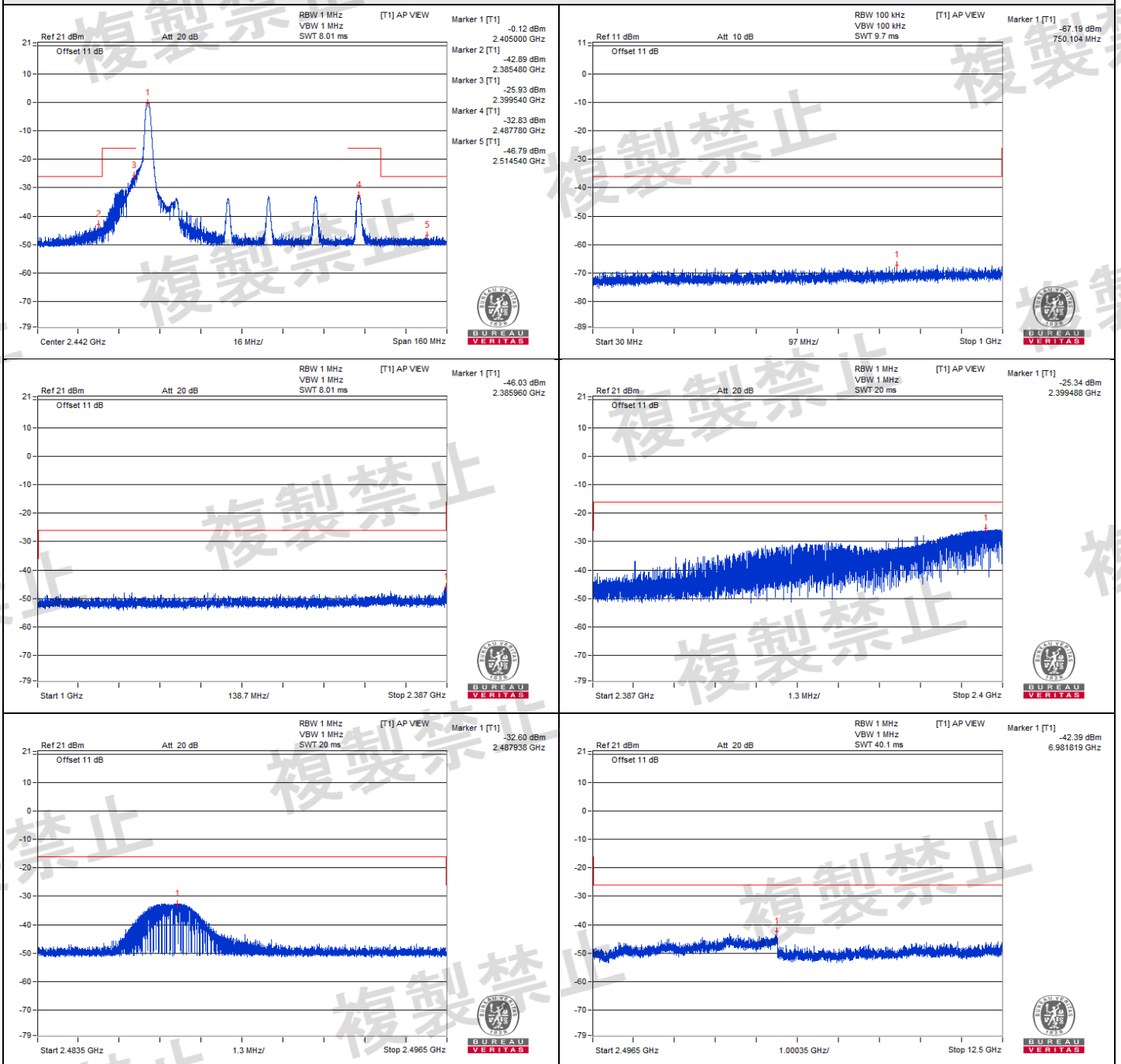
Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
---------------------------	--------------	------------	-----------

TEST CHANNEL		CH 1 (2405 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	750.104	0.000191 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2385.960	0.024946 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.488	2.924152 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.938	0.549541 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6981.819	0.057677 uW/MHz	2.5 uW/MHz	PASS
V_{max.}	30MHz to 1000MHz	904.091	0.000199 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2386.307	0.035318 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.750	2.978516 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.962	0.54325 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6931.802	0.052602 uW/MHz	2.5 uW/MHz	PASS
V_{min.}	30MHz to 1000MHz	995.999	0.000181 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2385.960	0.032584 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.990	2.77332 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.092	0.562341 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6823.014	0.053703 uW/MHz	2.5 uW/MHz	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30MHz to 1000MHz	970.779	0.000181 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2143.235	0.01652 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2398.528	0.024322 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.001	0.555904 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	5830.166	0.060534 uW/MHz	2.5 uW/MHz	PASS
V_{max.}	30MHz to 1000MHz	893.664	0.000187 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1339.815	0.015812 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2399.222	0.021577 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.914	0.548277 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6980.569	0.050582 uW/MHz	2.5 uW/MHz	PASS
V_{min.}	30MHz to 1000MHz	911.245	0.00022 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2162.133	0.024044 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2392.519	0.022233 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2487.995	0.540754 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6974.317	0.059156 uW/MHz	2.5 uW/MHz	PASS

TEST CHANNEL		CH 12 (2474 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V_{normal}	30MHz to 1000MHz	928.099	0.000198 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	1992.919	0.018113 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2397.840	0.024322 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.014	0.574116 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	5777.648	0.053827 uW/MHz	2.5 uW/MHz	PASS
V_{max.}	30MHz to 1000MHz	950.409	0.000185 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2316.263	0.018155 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2394.425	0.022646 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.016	0.563638 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6145.277	0.051761 uW/MHz	2.5 uW/MHz	PASS
V_{min.}	30MHz to 1000MHz	941.436	0.000182 uW/100kHz	0.25 uW/100kHz	PASS
	1000MHz to 2387MHz	2150.343	0.01762 uW/MHz	2.5 uW/MHz	PASS
	2387MHz to 2400MHz	2392.294	0.019454 uW/MHz	25 uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.216	0.598412 uW/MHz	25 uW/MHz	PASS
	2496.5MHz to 12500MHz	6994.324	0.052602 uW/MHz	2.5 uW/MHz	PASS

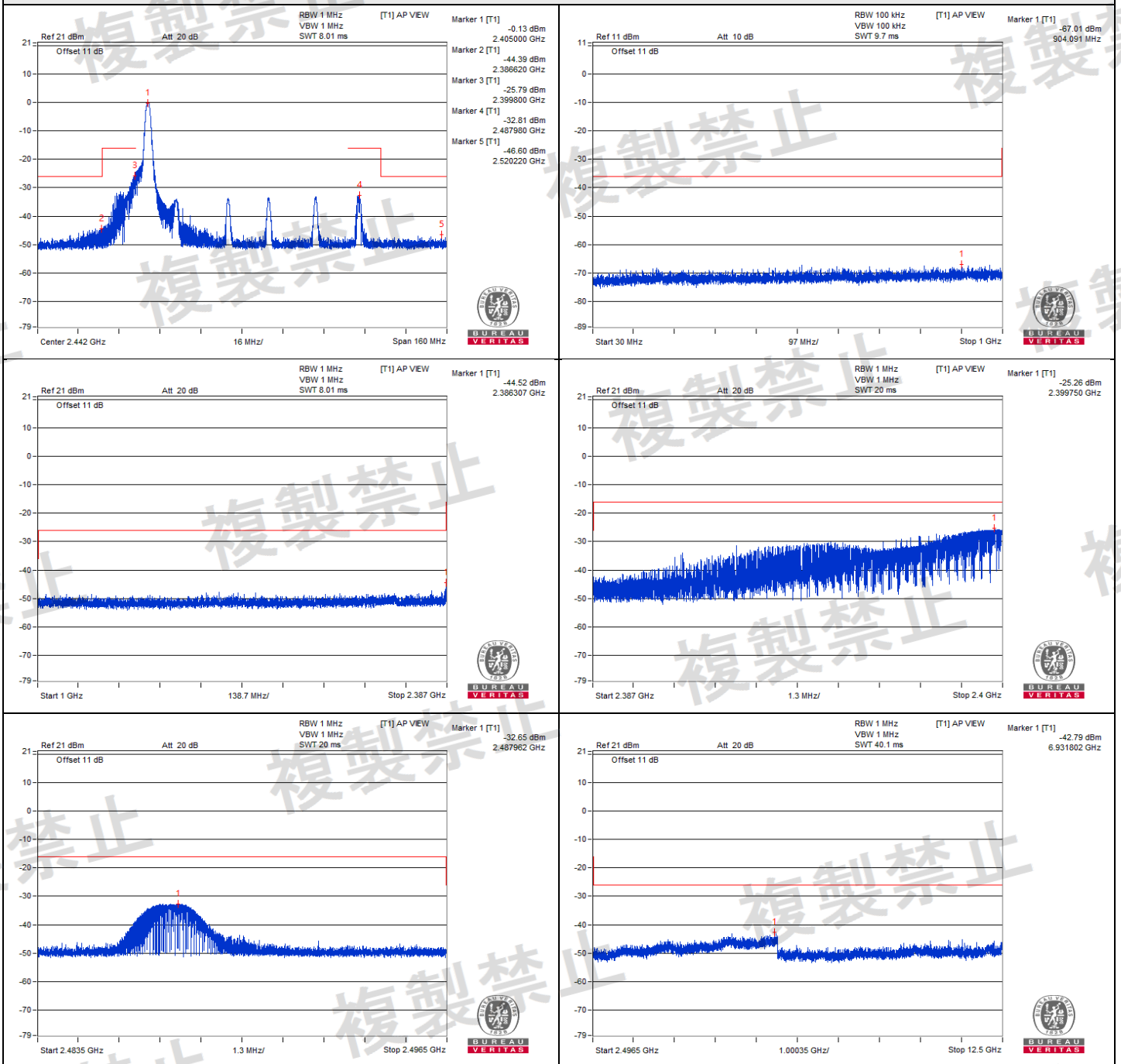
NOTE: 1. The spectrum plots are attached on the following pages.

Vnormal



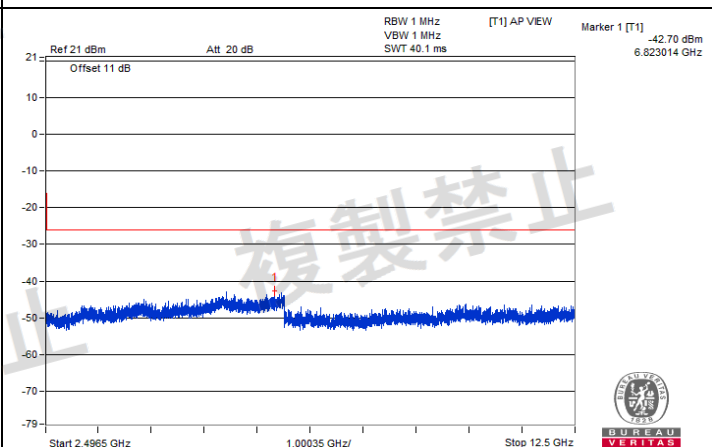
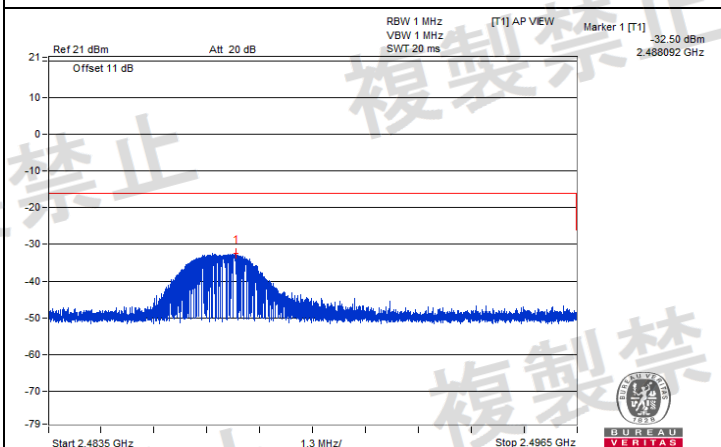
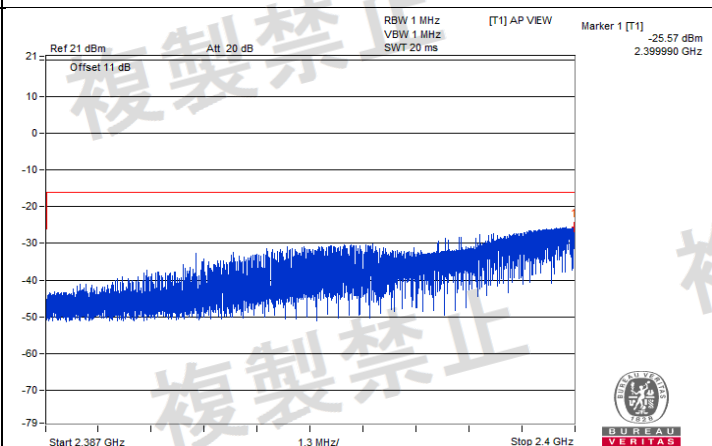
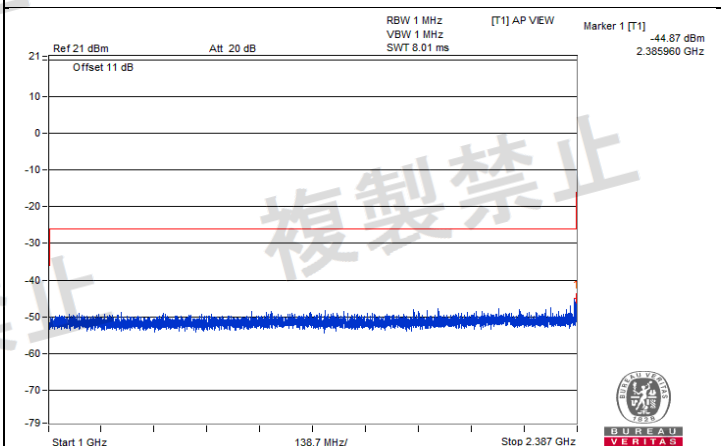
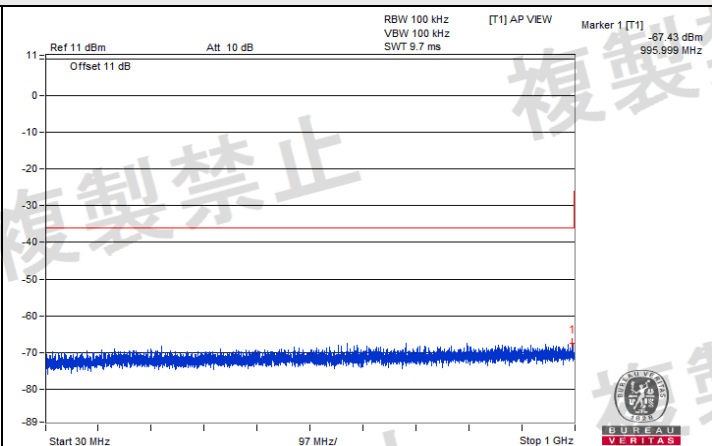
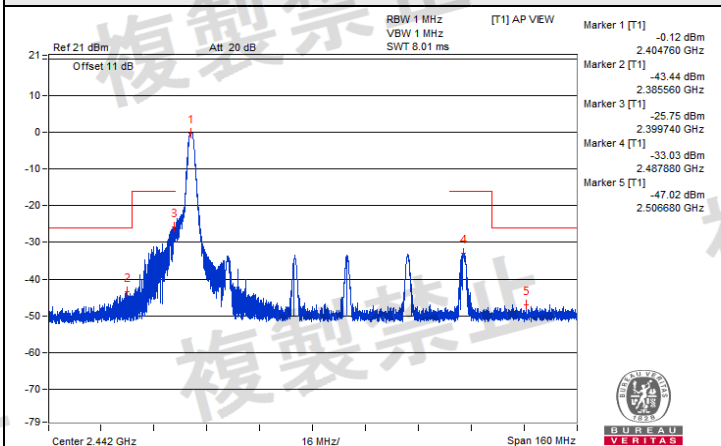
CH 1 (2405 MHz)

Vmax.



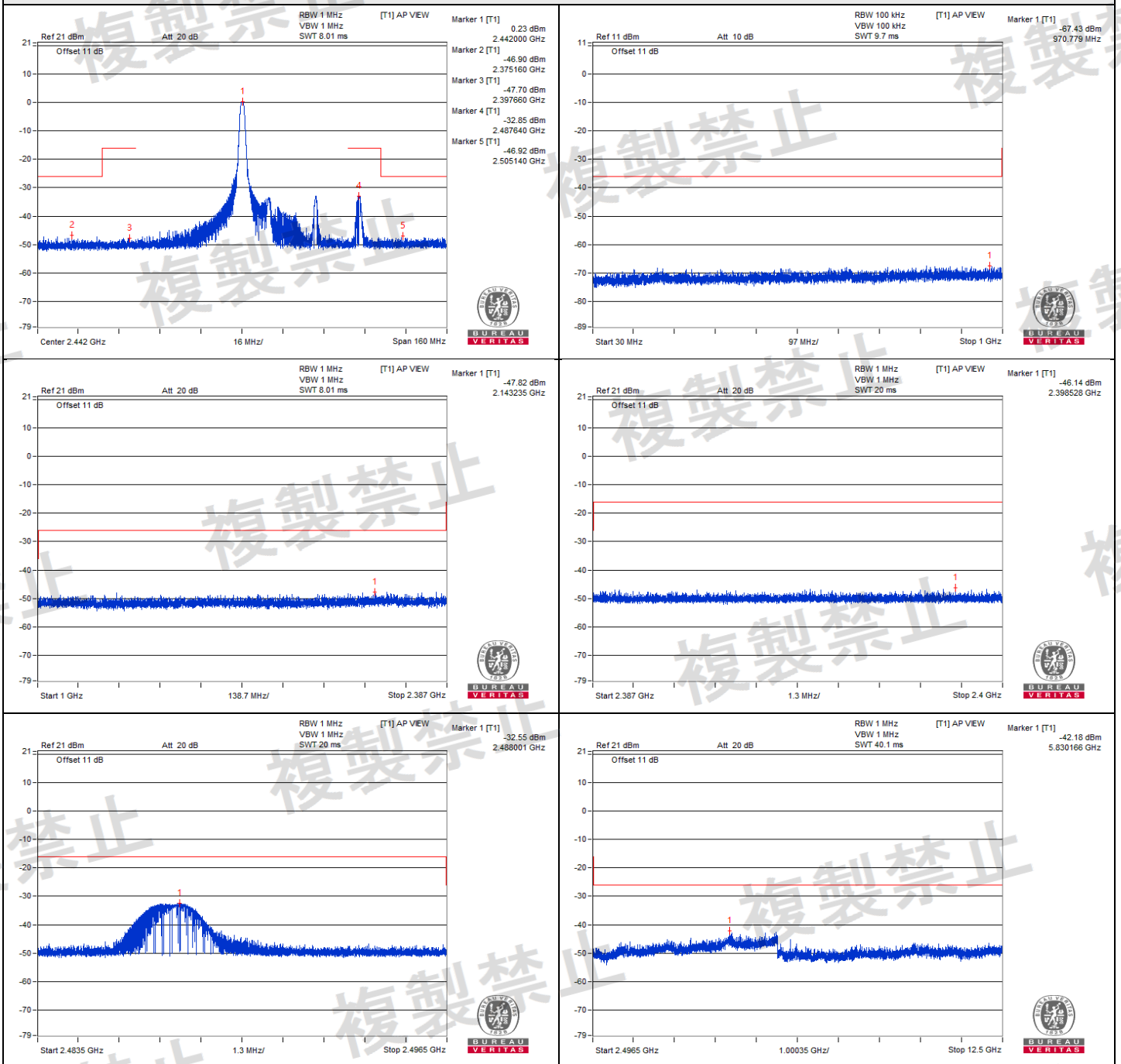
CH 1 (2405 MHz)

V_{min}.



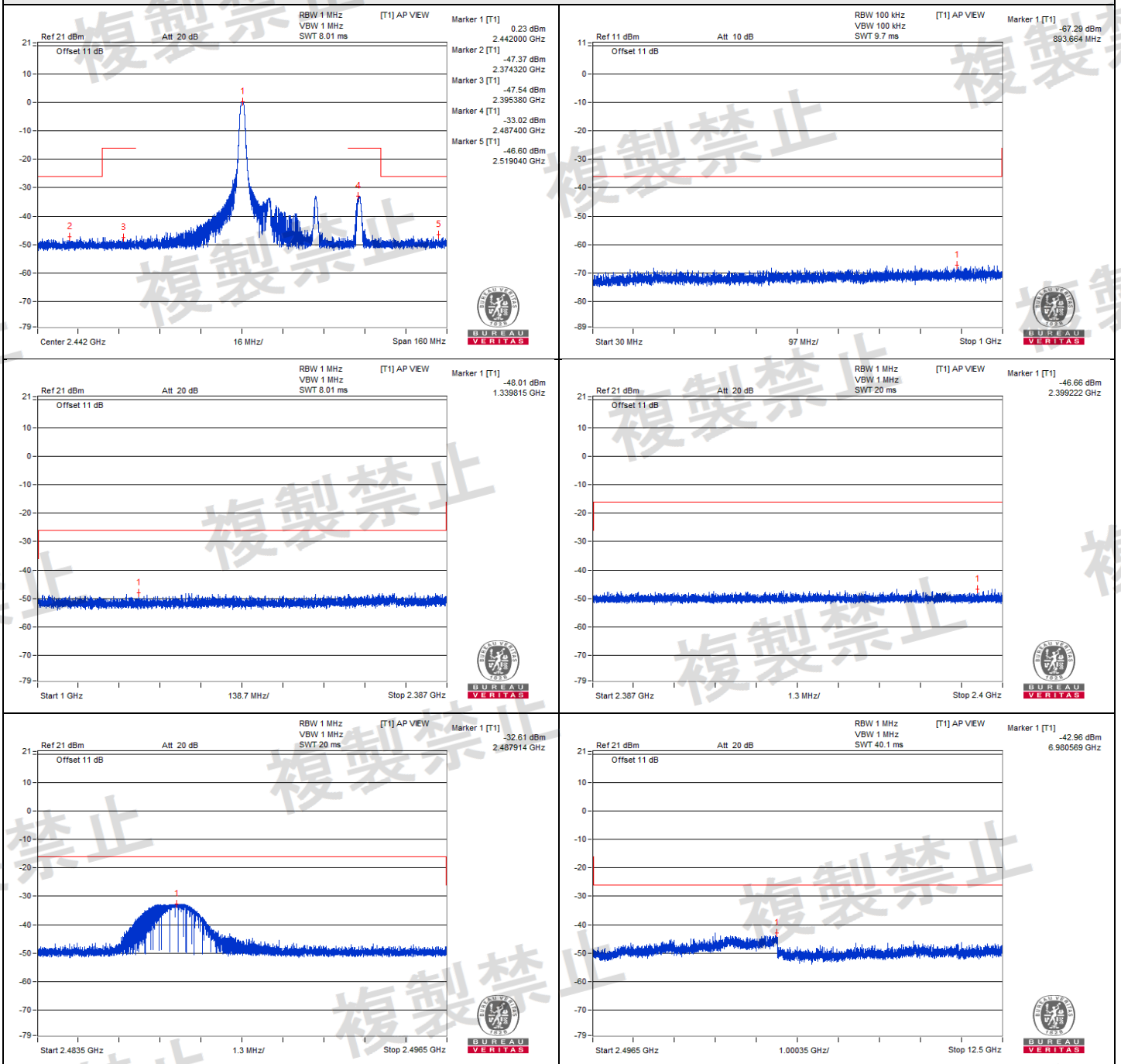
CH 1 (2405 MHz)

Vnormal



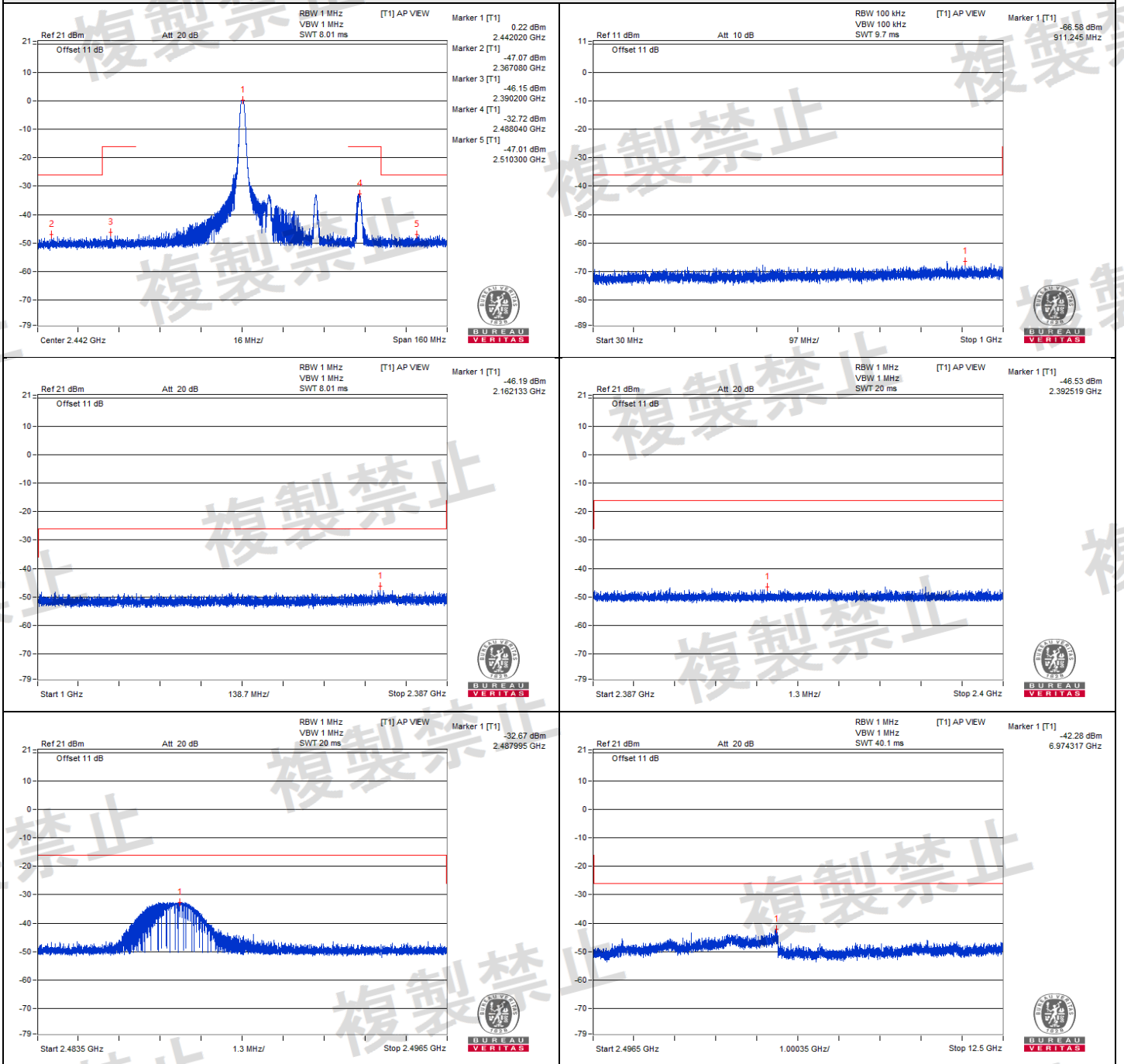
CH 7 (2442 MHz)

Vmax.



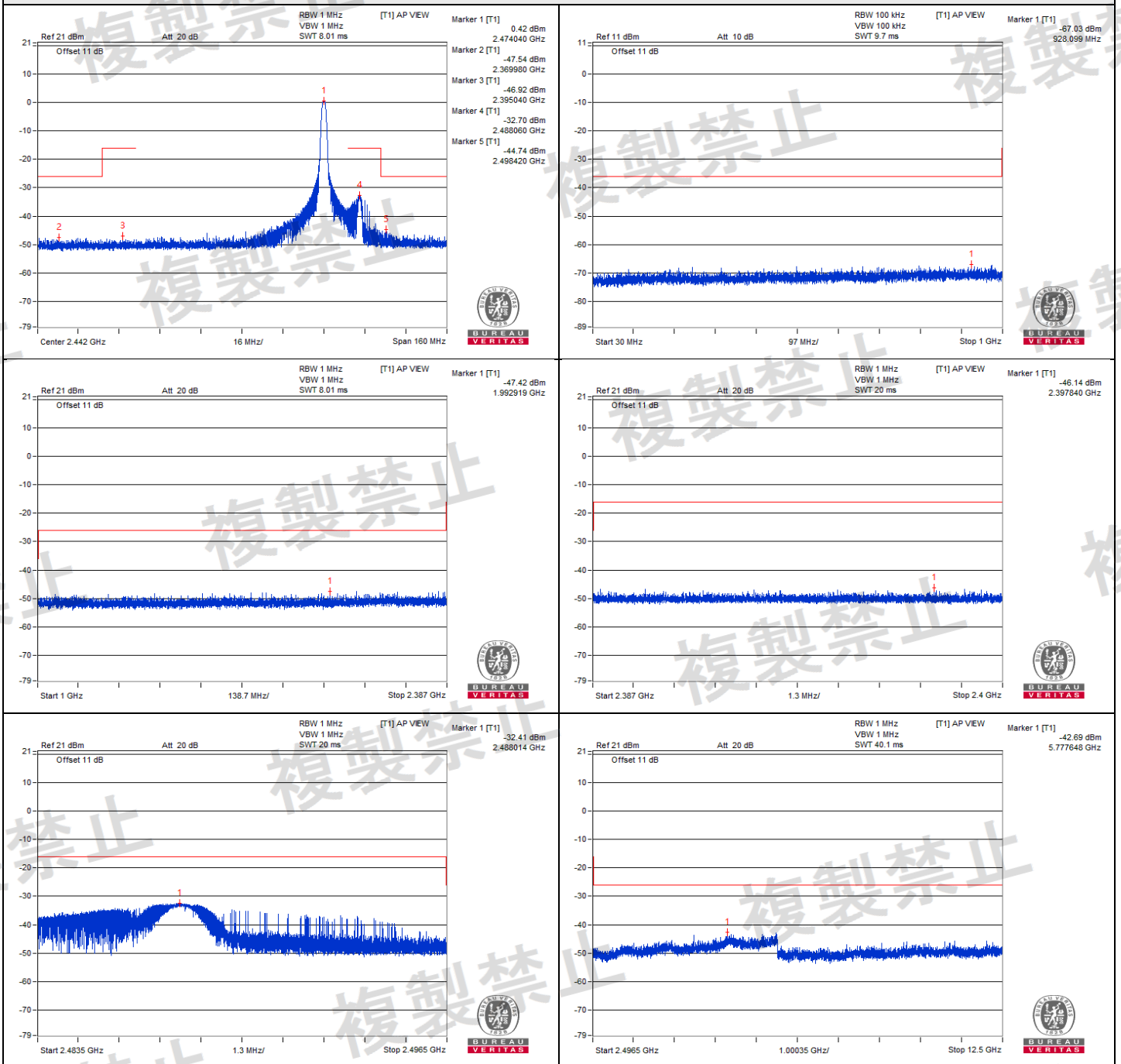
CH 7 (2442 MHz)

Vmin.



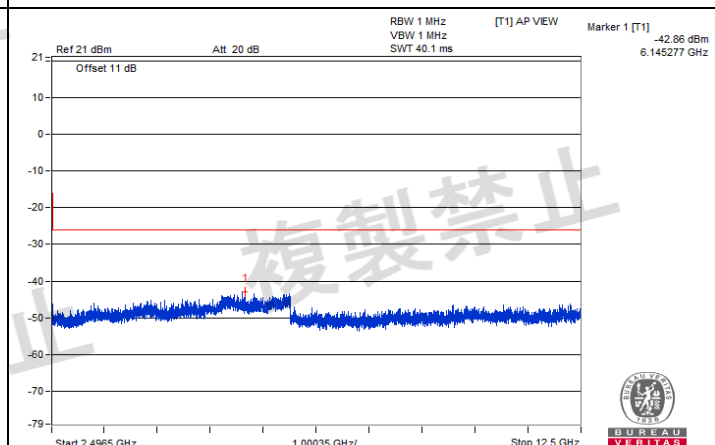
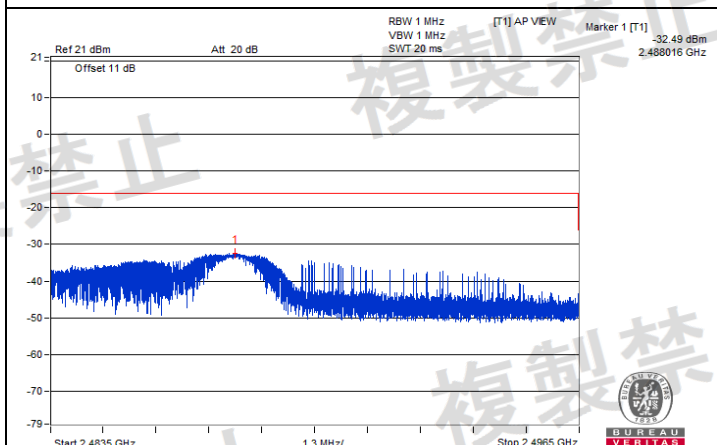
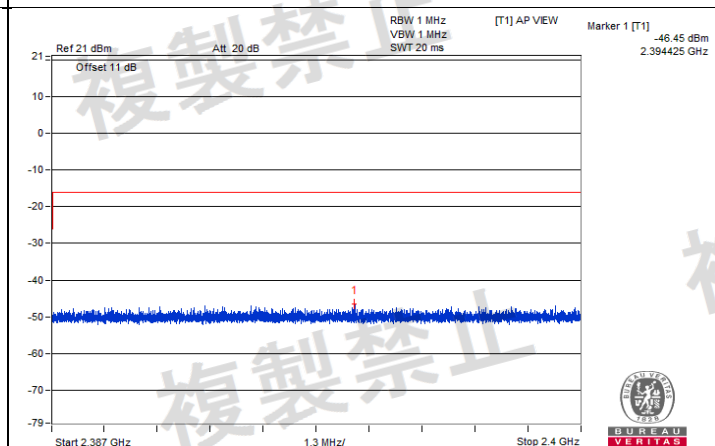
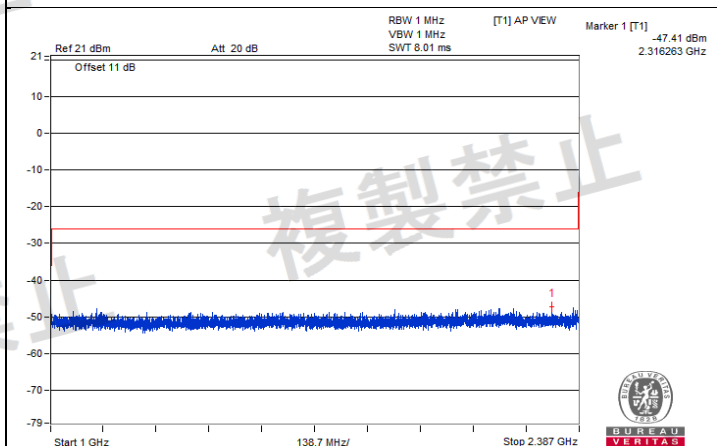
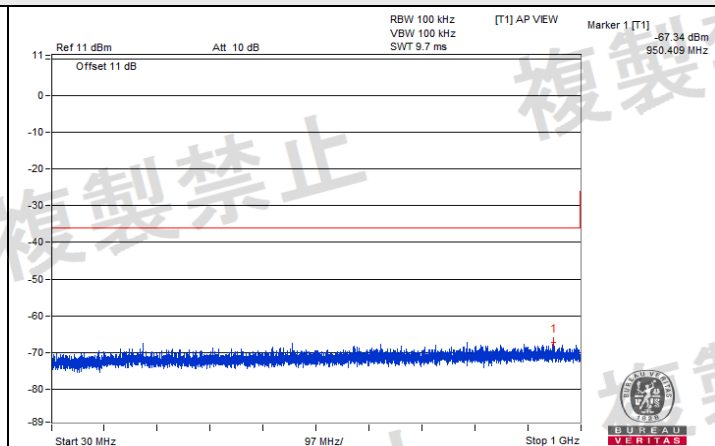
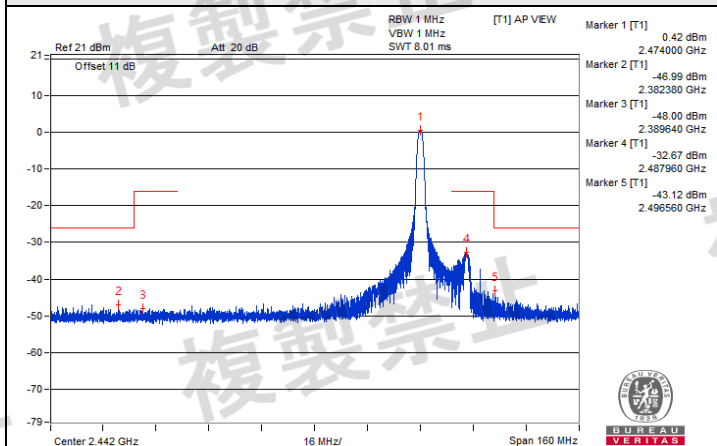
CH 7 (2442 MHz)

Vnormal



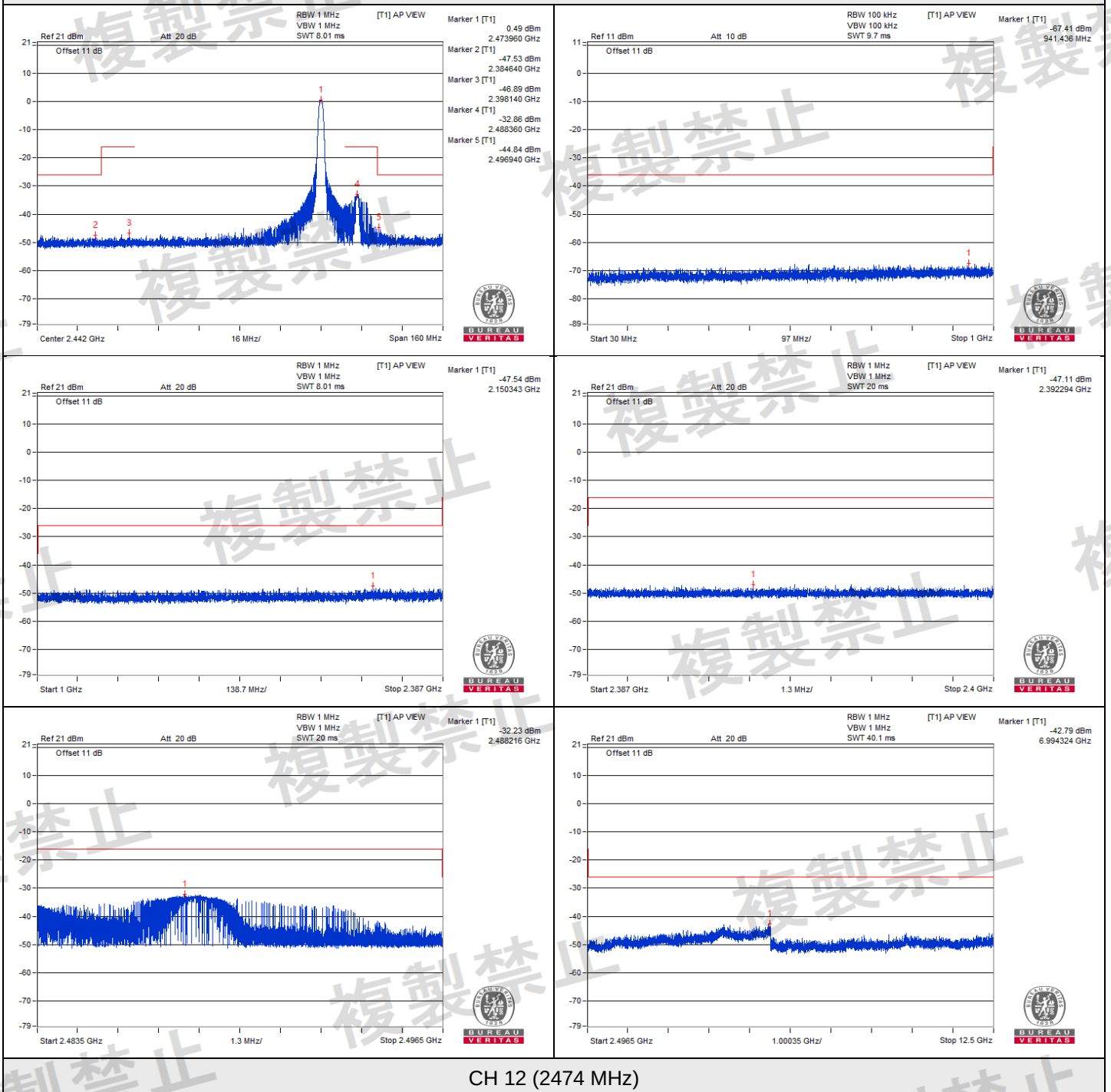
CH 12 (2474 MHz)

Vmax.



CH 12 (2474 MHz)

V_{min}.



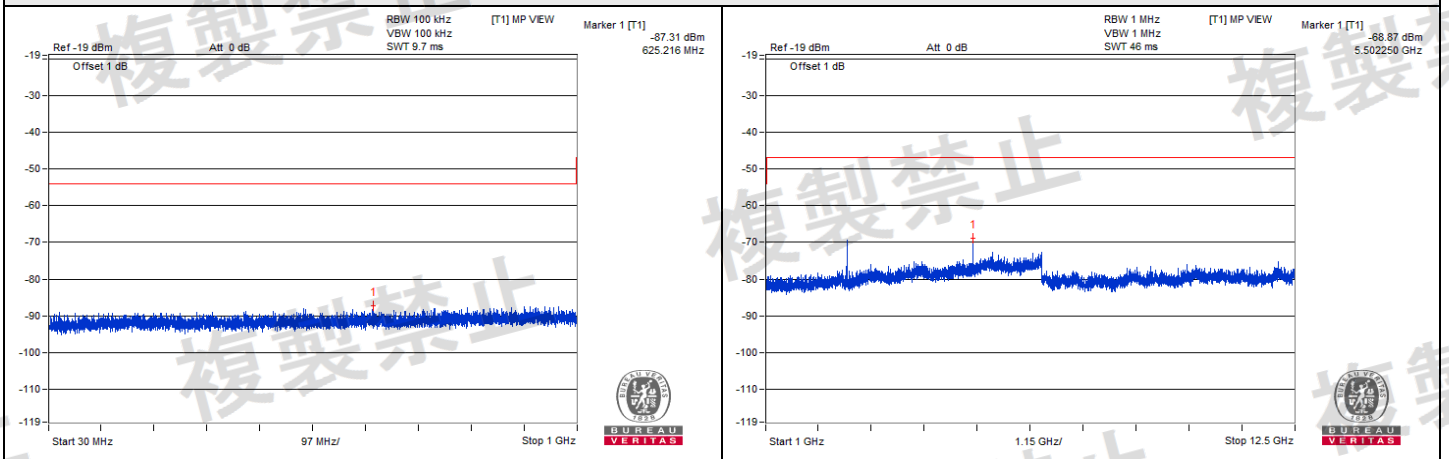
7.4 Spurious Emissions of Receiver

Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
---------------------------	--------------	------------	-----------

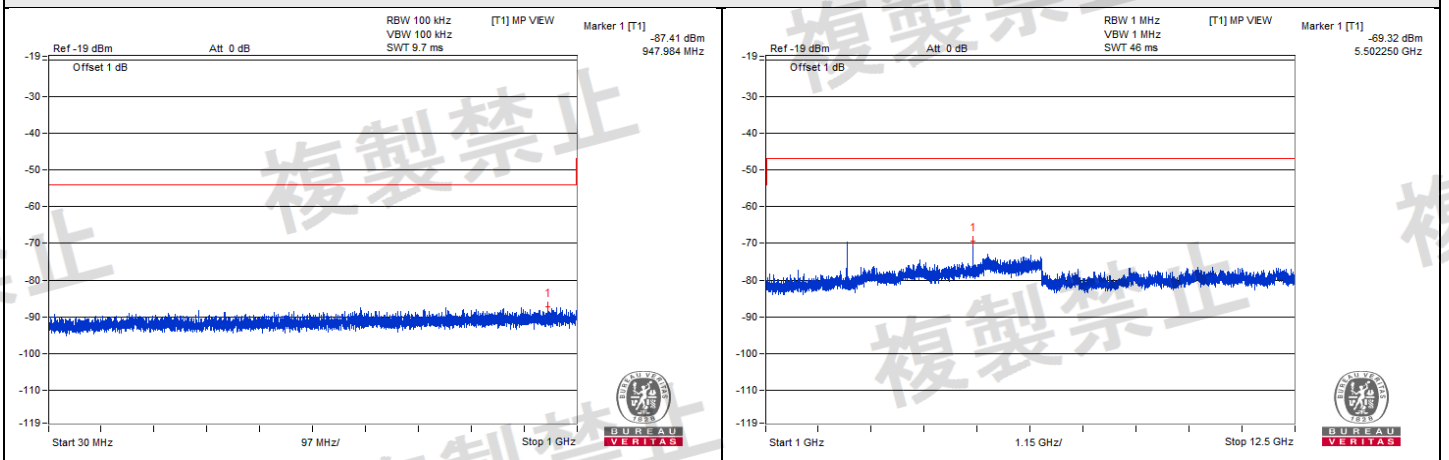
TEST CHANNEL		CH 1 (2405 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V_{normal}	30.0 to 1000.0	625.216	0.001858	4	PASS
	1000.0 to 12500.0	5502.250	0.129718	20	PASS
$V_{max.}$	30.0 to 1000.0	947.984	0.001816	4	PASS
	1000.0 to 12500.0	5502.250	0.11695	20	PASS
$V_{min.}$	30.0 to 1000.0	632.128	0.002178	4	PASS
	1000.0 to 12500.0	5502.250	0.132434	20	PASS
TEST CHANNEL		CH 7 (2442 MHz)			
V_{normal}	30.0 to 1000.0	914.398	0.002061	4	PASS
	1000.0 to 12500.0	2792.562	0.168267	20	PASS
$V_{max.}$	30.0 to 1000.0	910.639	0.001901	4	PASS
	1000.0 to 12500.0	2792.562	0.162181	20	PASS
$V_{min.}$	30.0 to 1000.0	647.405	0.002203	4	PASS
	1000.0 to 12500.0	2792.562	0.168655	20	PASS
TEST CHANNEL		CH 12 (2474 MHz)			
V_{normal}	30.0 to 1000.0	943.740	0.001849	4	PASS
	1000.0 to 12500.0	2829.937	0.17338	20	PASS
$V_{max.}$	30.0 to 1000.0	975.386	0.00208	4	PASS
	1000.0 to 12500.0	2829.937	0.190546	20	PASS
$V_{min.}$	30.0 to 1000.0	942.891	0.001928	4	PASS
	1000.0 to 12500.0	2829.937	0.212324	20	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

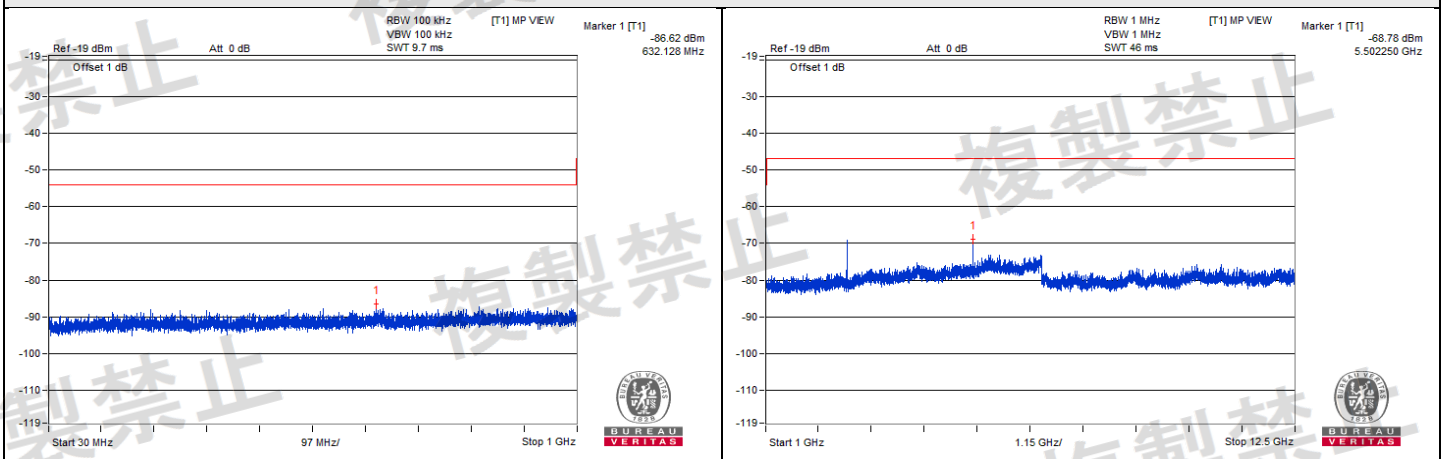
V_{normal}



V_{max}

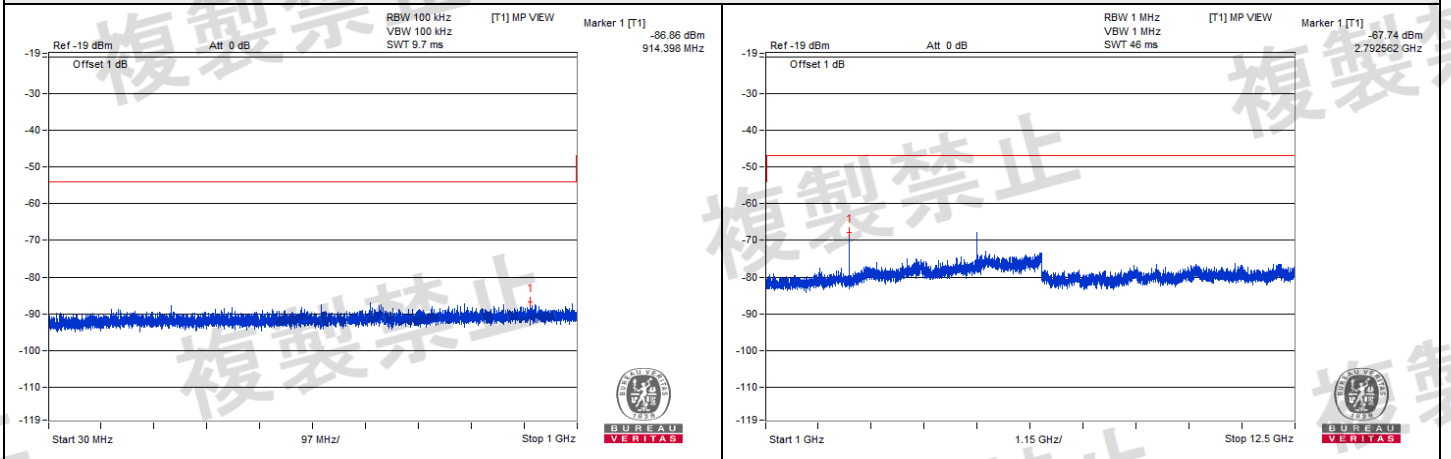


V_{min}

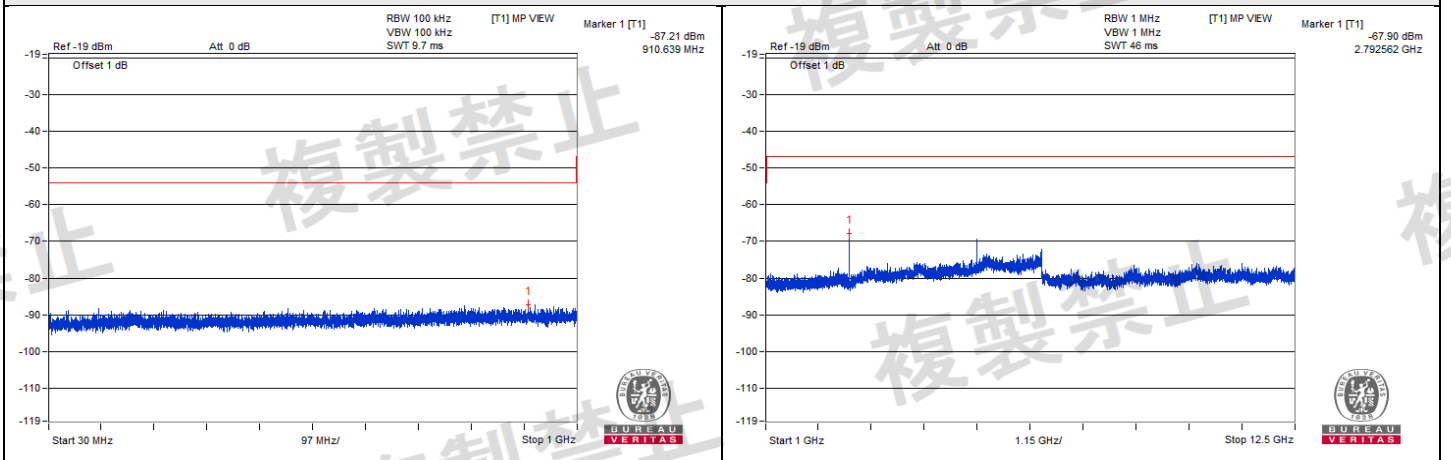


CH 1 (2405 MHz)

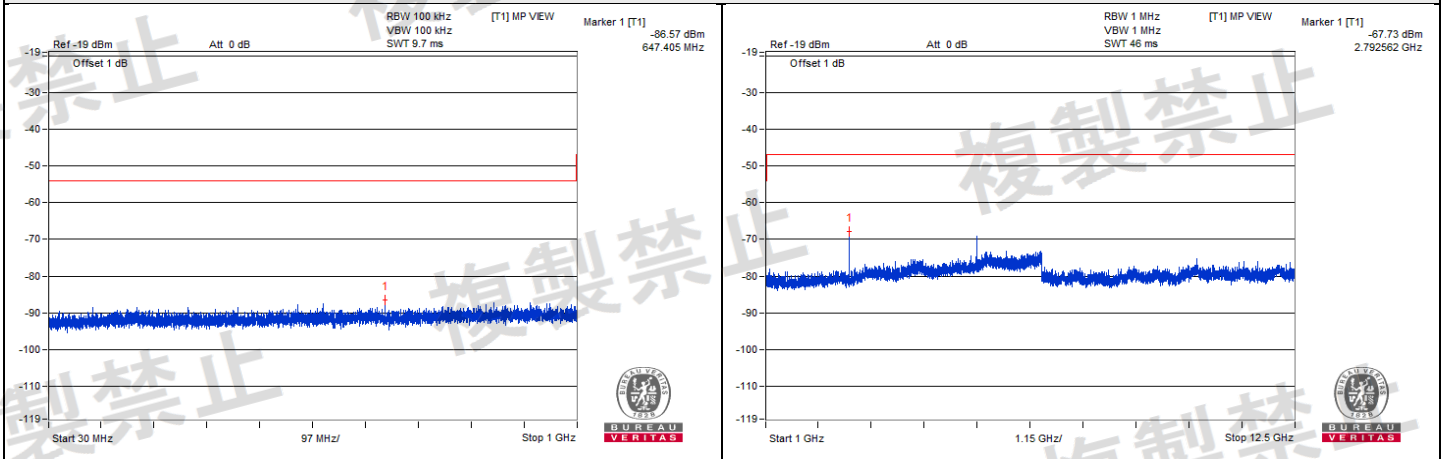
V_{normal}



V_{max}



V_{min}

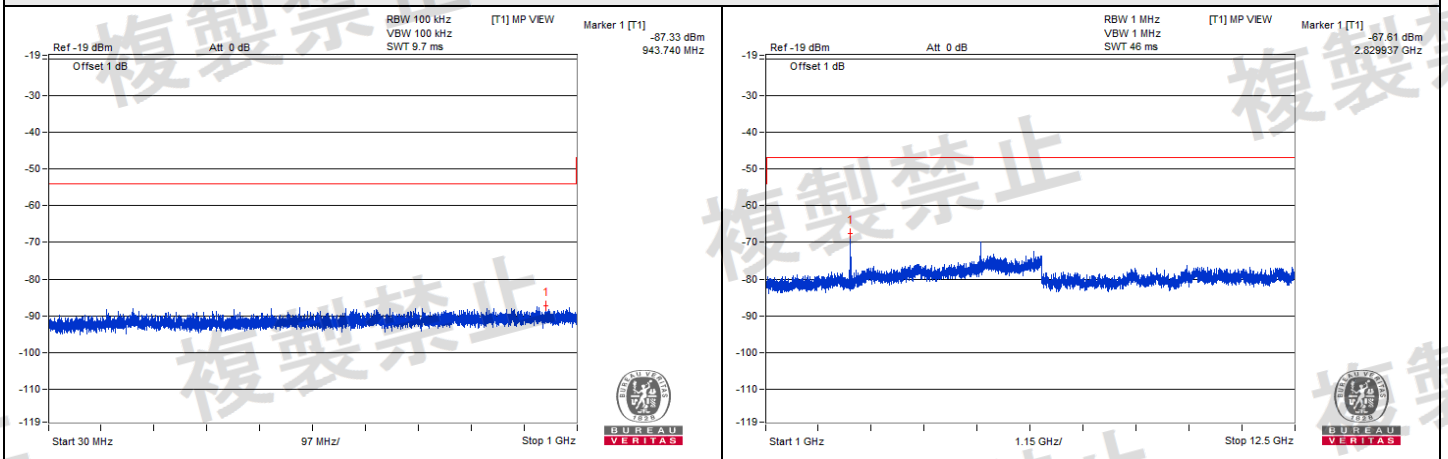


CH 7 (2442 MHz)

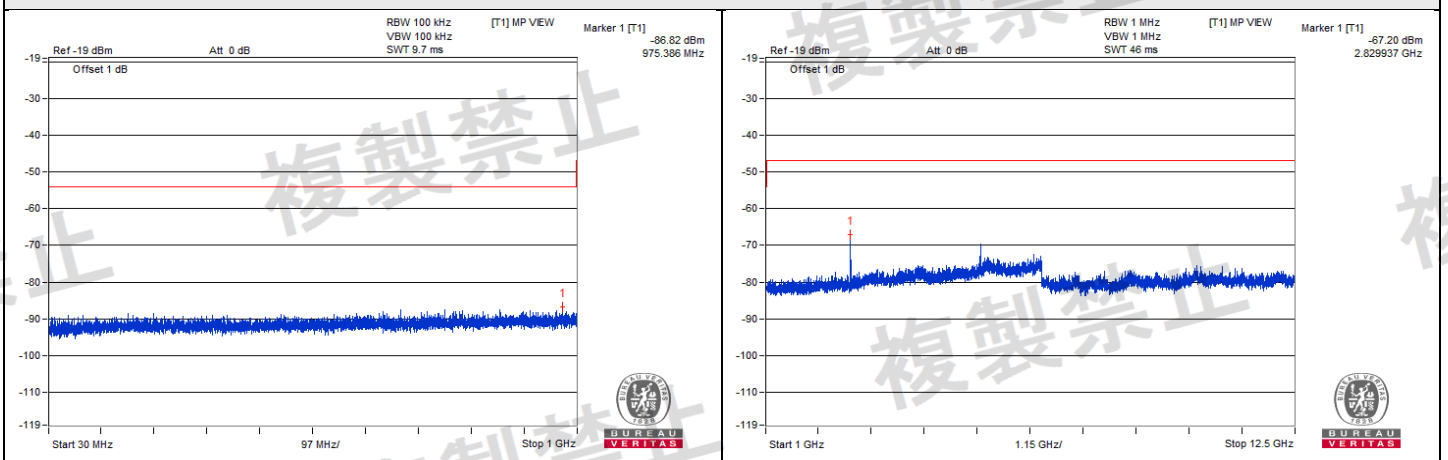


BUREAU
VERITAS

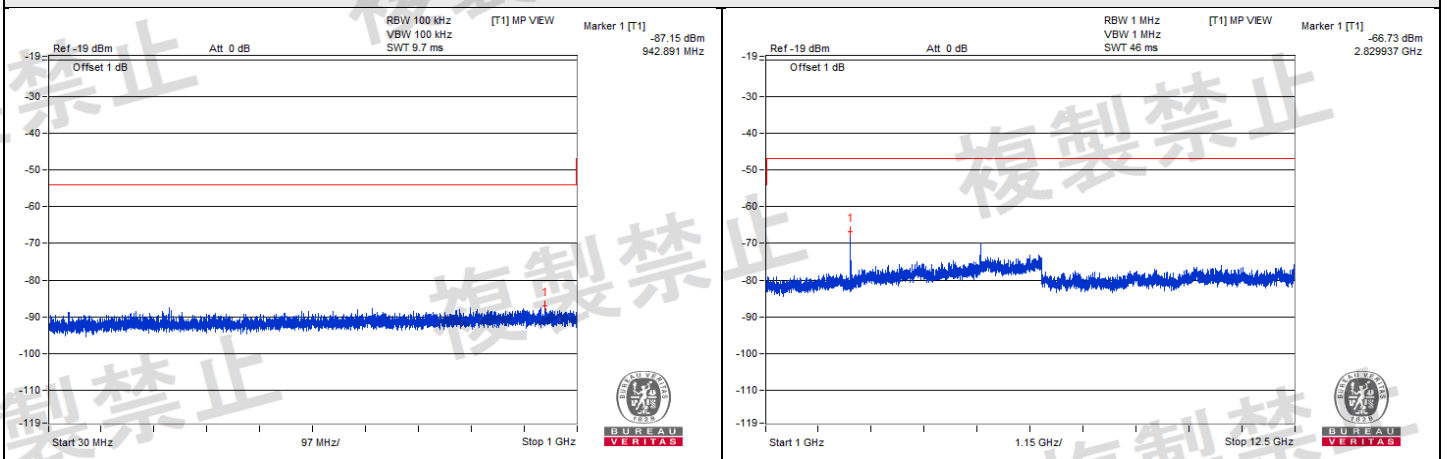
V_{normal}



V_{max}



V_{min}



CH 12 (2474 MHz)

7.5 Antenna Power

Environmental Conditions:	25°C, 76% RH	Tested By:	Ian Chang
---------------------------	--------------	------------	-----------

GFSK

Voltage (Vdc)	Channel Number	Frequency (MHz)	Conducted RF Output Power (mW)	Radiated RF Output Power (mW)
5	1	2405	1.422	0.724
	7	2442	1.535	0.782
	12	2474	1.596	0.813
5.5	1	2405	1.432	0.729
	7	2442	1.493	0.76
	12	2474	1.607	0.818
4.5	1	2405	1.426	0.726
	7	2442	1.483	0.755
	12	2474	1.656	0.843
Maximum Limit (mW):			10	-
Rated Power (mW):			2	-
Maximum Tolerance of Antenna Power (mW):			2.4	-
Maximum EIRP Limit (mW):			-	16.368

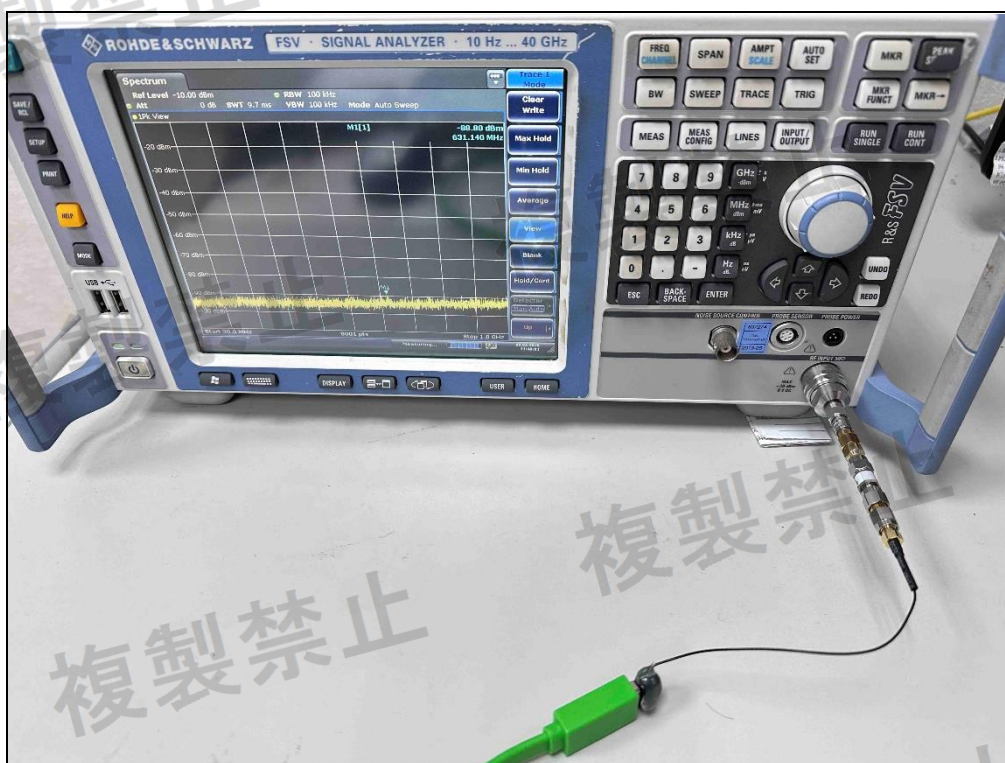
Notes:

1. Antenna gain is -2.93 dBi.
2. The radiated RF output power is a "calculated" value derived from the conducted value.
3. Formula: Radiated RF output power = Conducted RF output power + Antenna gain

7.6 Interference Prevention Function

Environmental Conditions:	25°C, 60% RH	Tested By:	Waydi Tuan
Link Mode		Test Result	
GFSK		Pass	

8 Pictures of Test Arrangements



9 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

--- END ---