TEST REPORT

Report number	:	**KR21220106A**
Issue date	:	**2022/01/06**

Applicant	:	FASTPONG CORP. 401, 8, Hangang-daero 44-gil, Yongsan-gu, Seoul, Republic of Korea Tel. +82-10-2272-9376 Fax. -
Model name	:	FP01
Serial number	:	N/A
Test procedure	:	Radio equipment according to Certification Ordinance Article 2 Section 1 No. 19
Date of test	:	2022/1/5
Name of facility	:	KRL Co., Ltd.

The results in this report are applicable only to the equipment tested.
This report shall not be re-produced except in full without the written approval of KRL Co.,Ltd.

Tested by : Moo-Hong, KIM

Approved by : Kyu-Hyun, LEE

Summary of Test Results

Test report No.	Description	Result
1	Frequency Tolerance	Pass
2	Occupied Bandwidth	Pass
3	Spurious emission intensity	Pass
4	Antenna Power	Pass
5	Spread-spectrum Bandwidth	NA
6	Secondary radiated emission	Pass
7	Holding Time	NA
8	Radio Interference Prevention Function	Pass

Measurement equipment list

USE	Equipment	Company	Model No.	Serial No.	Calibrated by	Cal. Method	Cal. Due	Cal. Date
X	FREQUENCY COUNTER	EIP	25B	9105-00535	KTICC	ハ(c)	Oct. 2022	Oct. 15, 2021
X	SPECTRUM ANALYZER	ROHDE&SCHWARZ	FSP	100665	KTICC	ハ(c)	Nov. 2022	Nov. 10, 2021
X	Auto Range DC Power Supply	ITECH	IT6721	600104011717610000	BCS	ハ(c)	Aug. 2022	May. 26, 2021
X	TEMP & HUMI. CHAMBER	HITACHI	EC-25MHHPS	U5539026	KTICC	ハ(c)	Nov. 2022	Nov. 19, 2021
	SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ26	100044	KTICC	ハ(c)	Jan. 2022	Jan. 8, 2021
X	USB Average Power Sensor	AGILENT	U2004A	MY53340013	KTICC	ハ(c)	Oct. 2022	Oct. 15, 2021
	POWER DIVIDER	HP	11636A	03871	BCS	ハ(c)	Jan. 2022	Jan. 8, 2021
	STEP ATTENUATOR	AEROFLEX	AF9010-60-31	12987	BCS	ハ(c)	Jan. 2022	Jan. 8, 2021
	AC POWER SUPPLY	DAELIM	D-45	KRL-002	BCS	二(d)	Aug. 2022	Aug. 6, 2021
	FIXED ATTENUATOR	XMA CORP	4882-6140-06	KRL-009	KTICC	ハ(c)	Oct. 2022	Oct. 15, 2021

Note1: The calibration of measurement equipment is valid for one year period.

Note2: "X" used equipment.

Note3: Cal.Method …

a) : Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)

b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

c) : 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)

d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

Specified Radio Equipment Test Report

Test Date : 2022-01-05

Class: Article 2 Paragraph 1 Item 19		Frequency :	(2 402 ~ 2 480) MHz
Rated Power (mW) :	1 mW	Antenna Gain :	2.12 dBi
Rated Power (dBm) :	0.00 dBm	E.I.R.P :	2.12 dBm
Emission Designator : F1D			
Model Name : FP01		Test Location :	RF TEST ROOM
Serial No. : N/A		Temp / Humid.	20℃ / 50%
Type of Emission : BLE		Tested By :	MooHong, Kim

No.	Test Items	Test ch	Test Frequency MHz	Test Result Voltage	Test Result Voltage DC 12.0 V	Test Result Voltage	Unit	Technical Regulations
1	Frequency Tolerance	0	2402.0		2401.981056		MHz	50 PPM or less
					-7.887		PPM	
		19	2440.0		2439.980689		MHz	
					-7.914		PPM	
		39	2480.0		2479.980364		MHz	
					-7.918		PPM	
2	Occupied Bandwidth	0	2402.0		1.370		MHz	26MHz or less
		19	2440.0		1.370		MHz	
		39	2480.0		1.380		MHz	
3	Spurious Emission Intensity	0	2402 (1)		-55.90		dBm	(1) Below 2387 MHz : -26dBm (2) 2387 to 2400 MHz : -16dBm (3) 2483.5 to 2496.5 MHz : -16dBm (4) Over 2496.5 MHz : -26dBm
			2402 (2)		-22.87		dBm	
			2402 (3)		-59.00		dBm	
			2402 (4)		-45.97		dBm	
		19	2440 (1)		-56.54		dBm	
			2440 (2)		-59.76		dBm	
			2440 (3)		-60.03		dBm	
			2440 (4)		-44.70		dBm	
		39	2480 (1)		-55.68		dBm	
			2480 (2)		-59.27		dBm	
			2480 (3)		-37.91		dBm	
			2480 (4)		-43.50		dBm	
4	Antenna Power	0	2402.0		0.000993		W	0.01 W or less Error＋20%-80%
					-0.70		%	
		19	2440.0		0.001005		W	
					0.50		%	
		39	2480.0		0.001019		W	
					1.90		%	
5	Spread-spectrum Bandwidth	0	2402.0				kHz	500kHz or more
		19	2440.0				kHz	
		39	2480.0				kHz	
6	Secondary Radiated Emissions	0	2402 (1)		-80.86		dBm	(1) Below 1 GHz : -54dBm (2) 1 GHz or higher : -47dBm
			2402 (2)		-64.58		dBm	
		19	2440 (1)		-80.75		dBm	
			2440 (2)		-63.27		dBm	
		39	2480 (1)		-80.64		dBm	
			2480 (2)		-63.59		dBm	
7	Holding Time	0	2402.0				Sec	less than 0.4sec
		19	2440.0				Sec	
		39	2480.0				Sec	
8	Radio Interference Prevention Function	ID Code		MAC ADDRES : 21:06:27:00:7E:3F				Carrier sense is not required

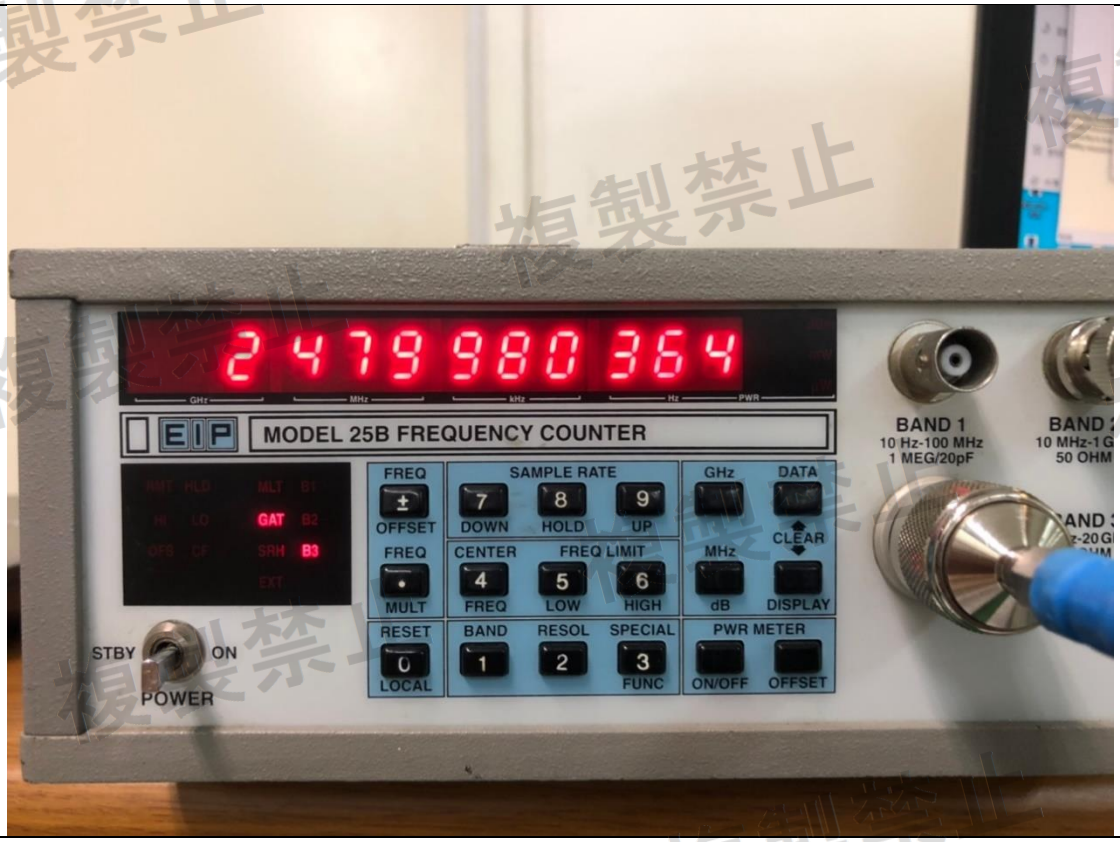
The input voltage to receiver RF circuit varies below ± 1% as the input voltage from the external power supply to the receiver varies ± 10%(excluding power supply).

BLE Test Result

Frequency error

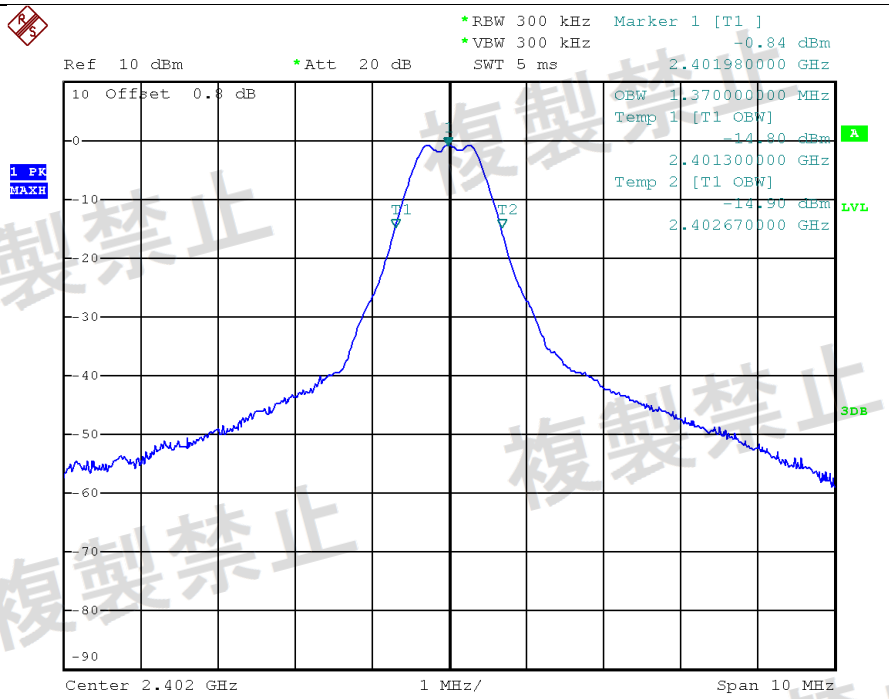
LOW

MID

HIGH	 2479980364 EIP MODEL 25B FREQUENCY COUNTER BAND 1 10 Hz-100 MHz 1 MEG/20pF FREQ OFFSET SAMPLE RATE 7 DOWN 8 HOLD 9 UP GHz DATA CLEAR FREQ MULT CENTER FREQ 4 FREQ LIMIT 5 LOW 6 HIGH MHz dB DISPLAY GAT SRH B3 EXT STBY ON POWER RESET 0 LOCAL BAND 1 RESOL 2 SPECIAL 3 FUNC PWR METER ON/OFF OFFSET

Occupied Bandwidth

LOW



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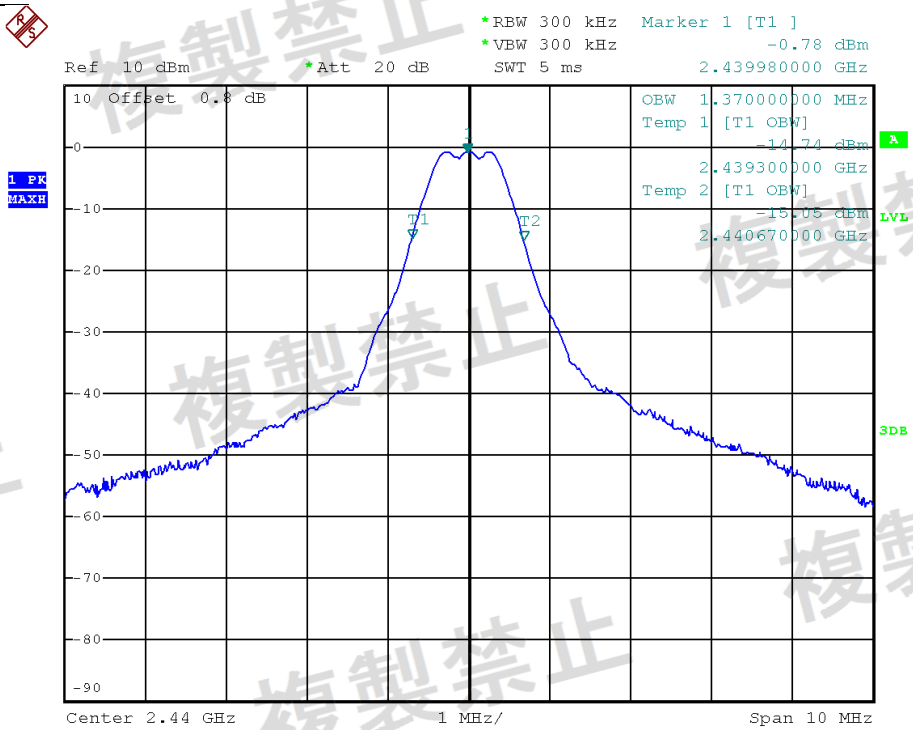
MID



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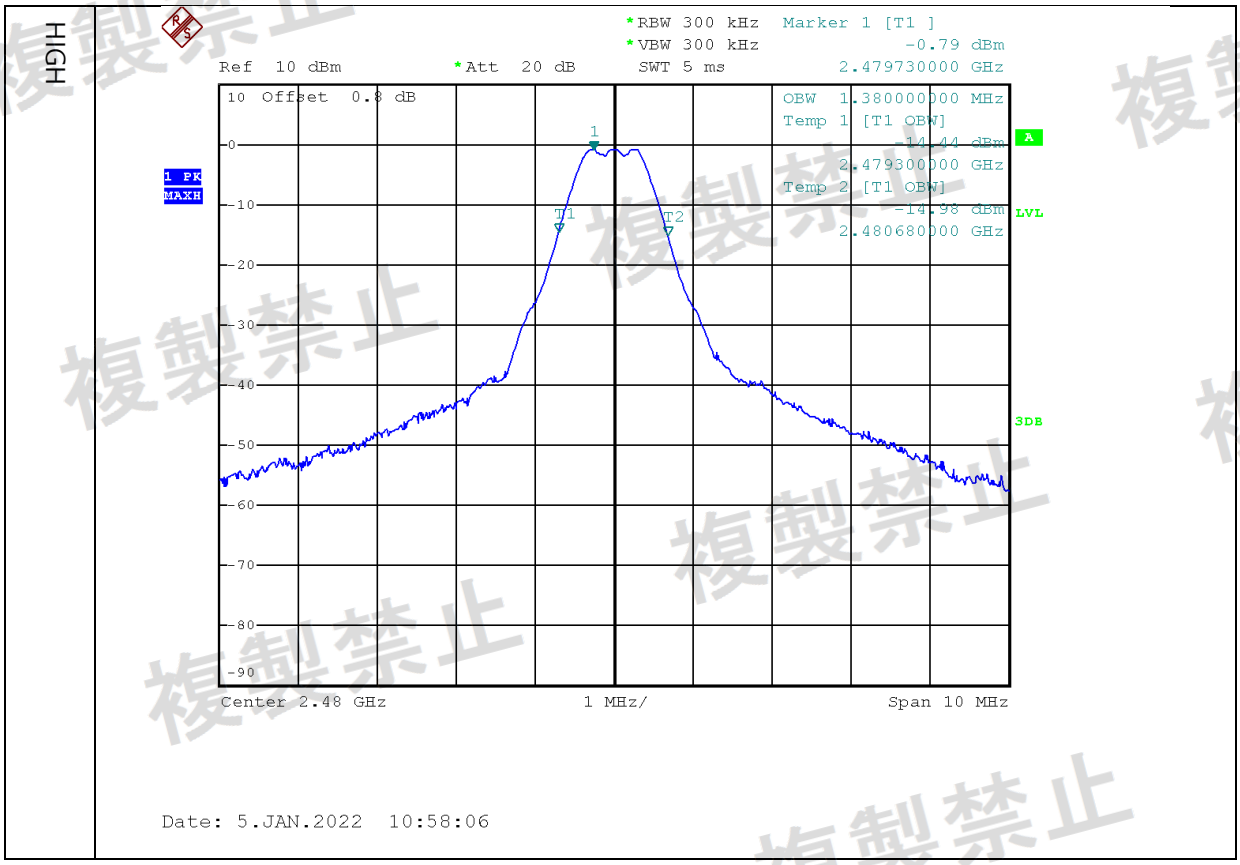
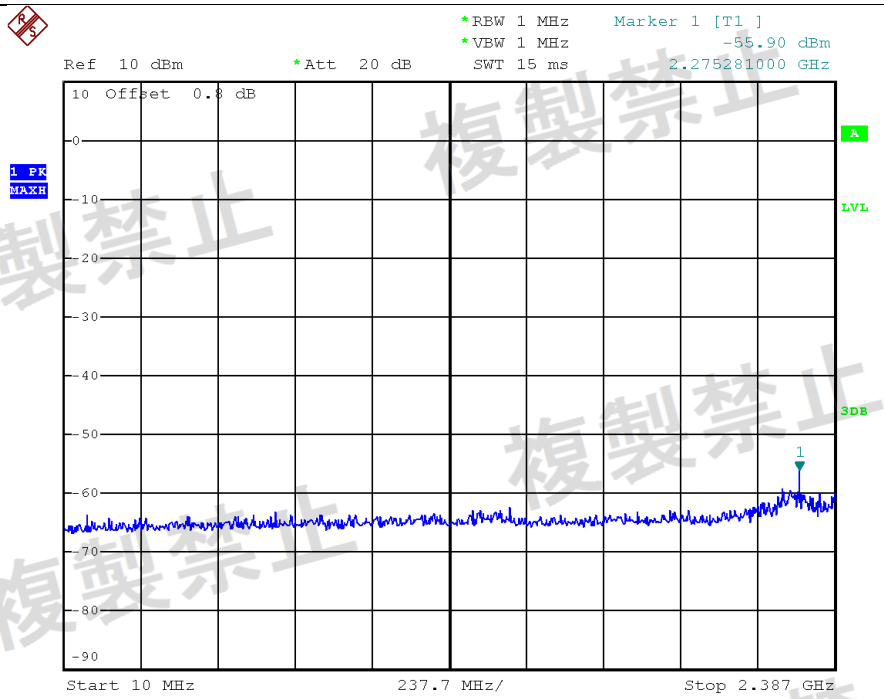

HIGH
*RBW 300 kHz
*VBW 300 kHz
Ref 10 dBm
*Att 20 dB
SWT 5 ms
Marker 1 [T1]
-0.79 dBm
2.479730000 GHz
10 Offset 0.8 dB
OBW 1.380000000 MHz
Temp 1 [T1 OBW]
14.44 dBm
2.479300000 GHz
Temp 2 [T1 OBW]
-14.98 dBm
2.480680000 GHz
1 PK
MAXH
A
LVL
3DB
T1
T2
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
Center 2.48 GHz
1 MHz/
Span 10 MHz
Date: 5.JAN.2022 10:58:06

Spurious Emission Intensity

LOW



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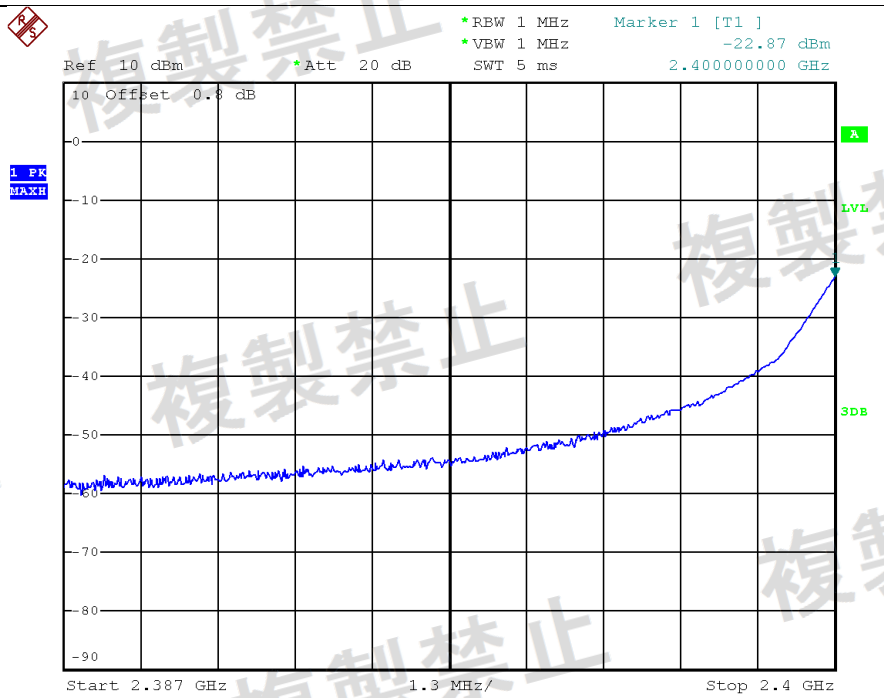

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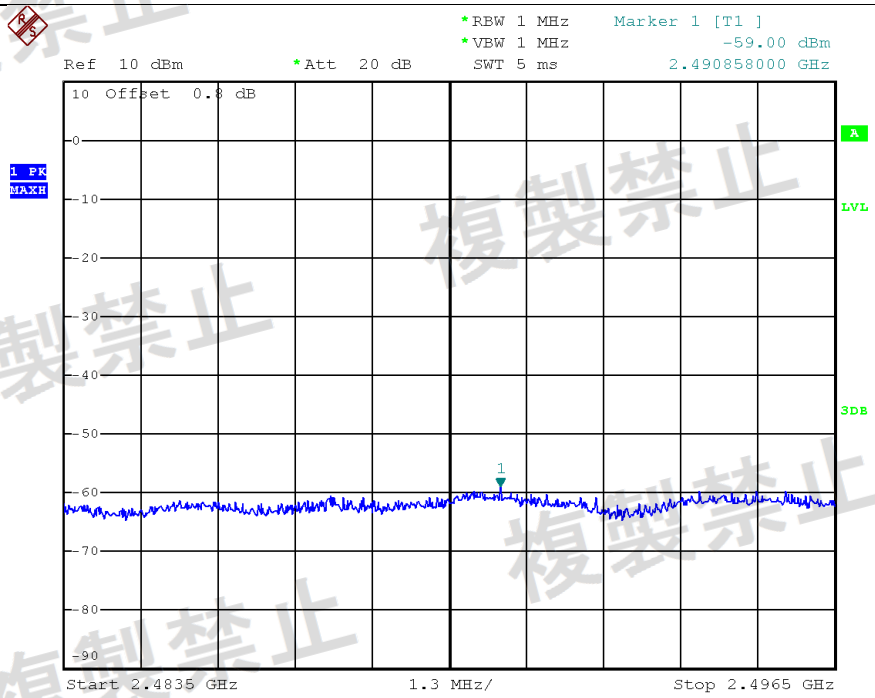

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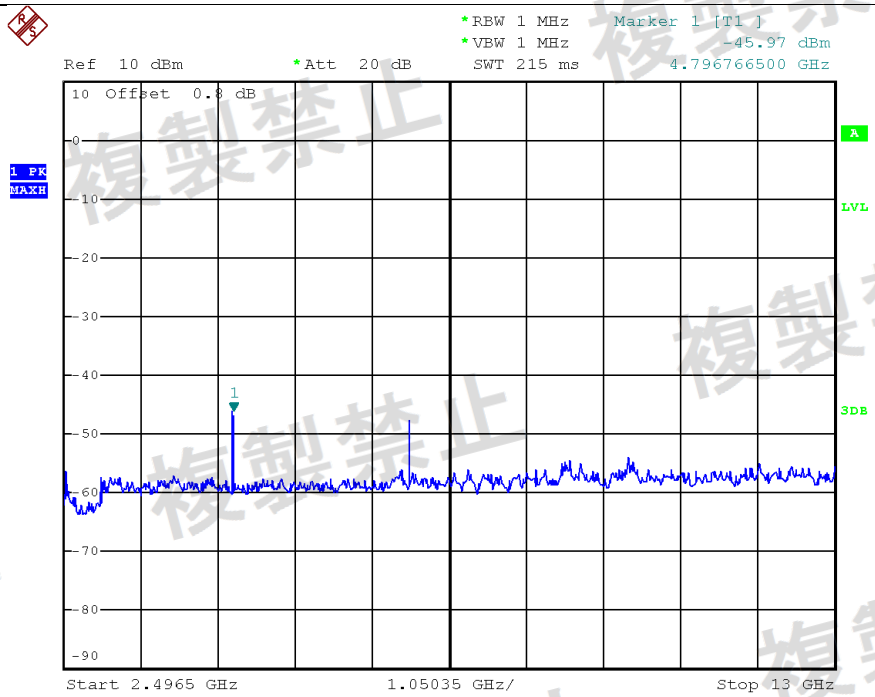

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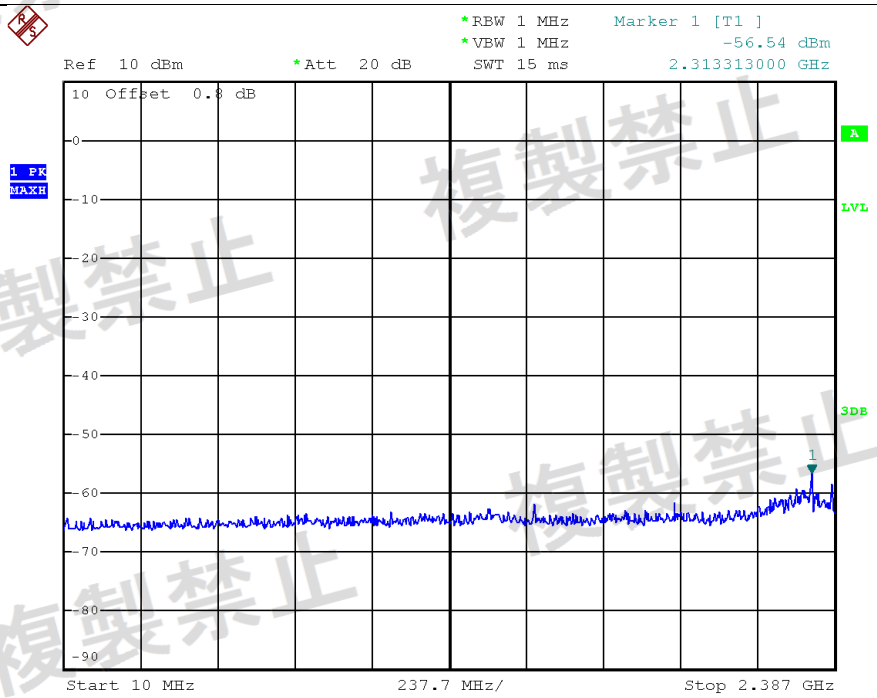
Spurious Emission Intensity

MID



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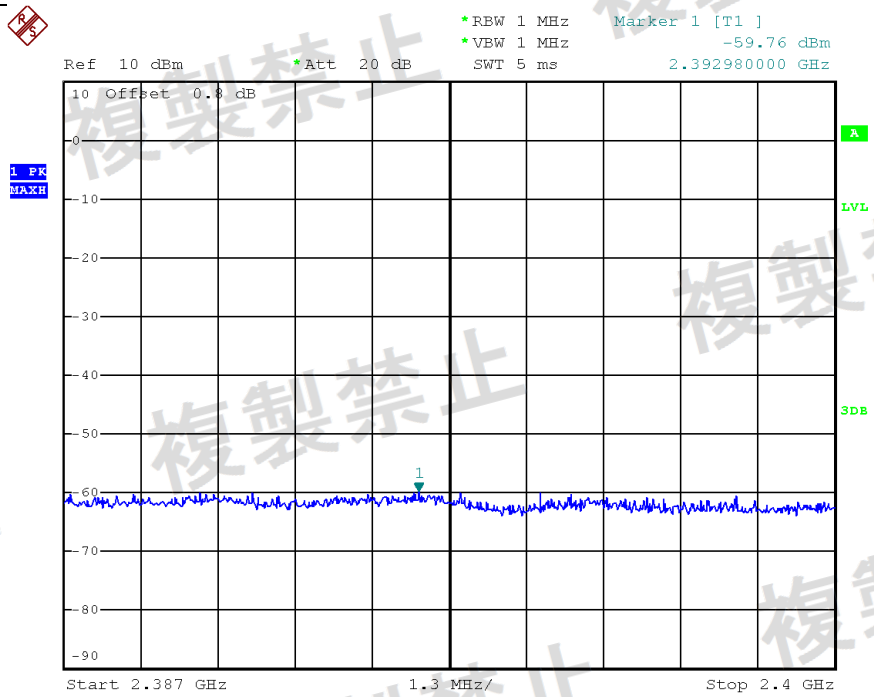

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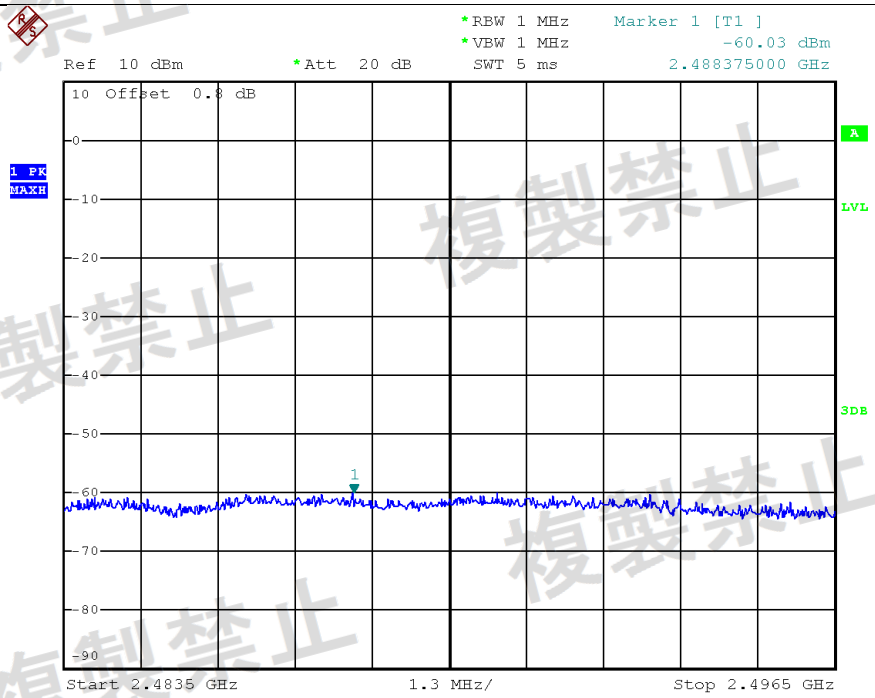

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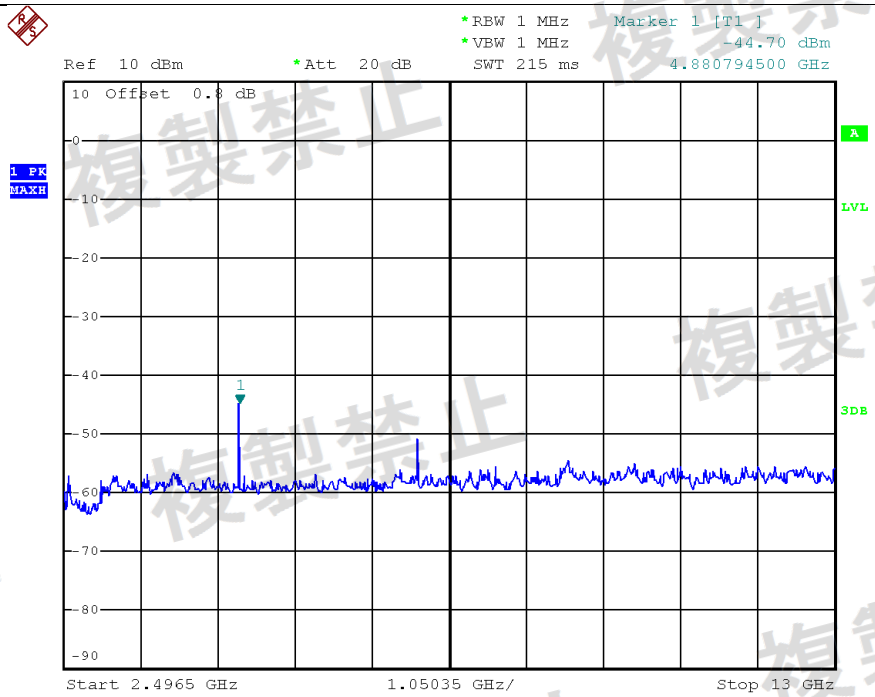

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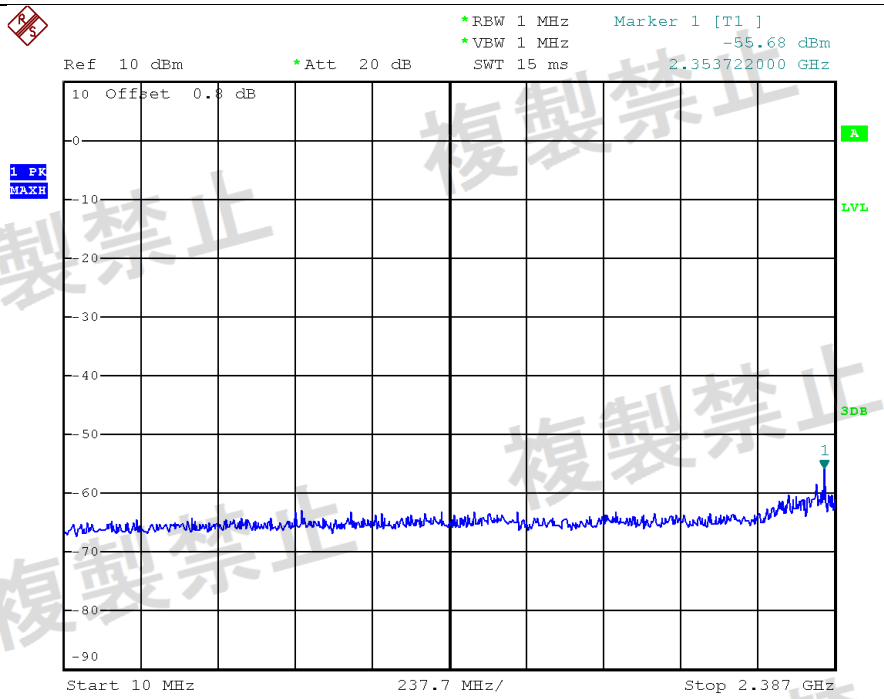
Spurious Emission Intensity

HIGH



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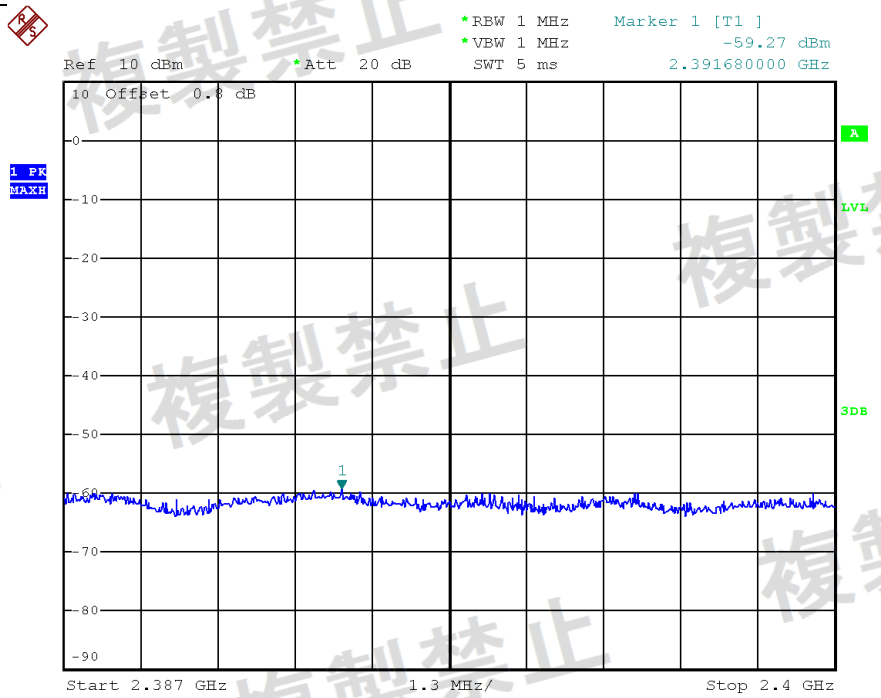

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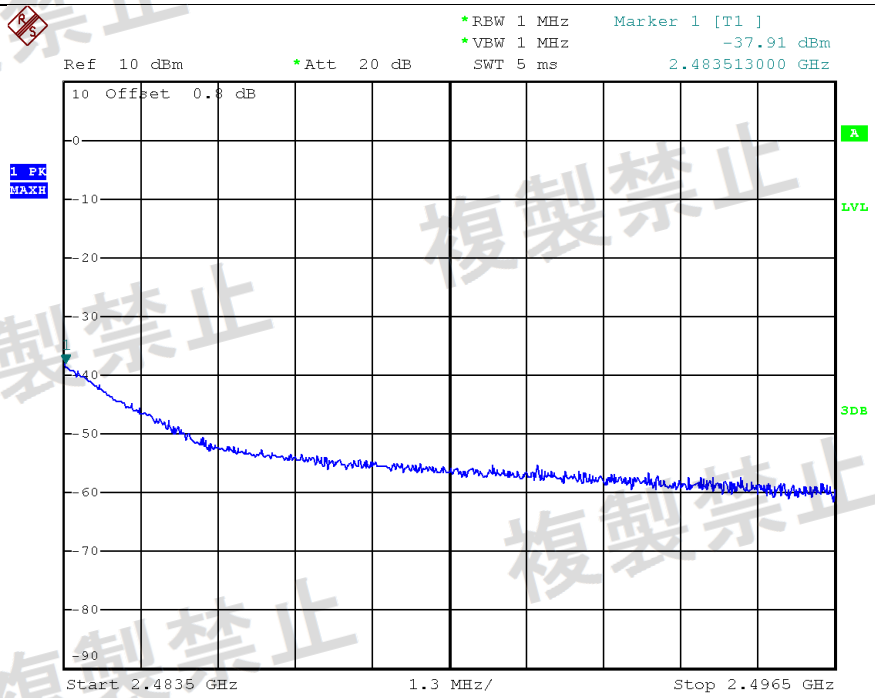

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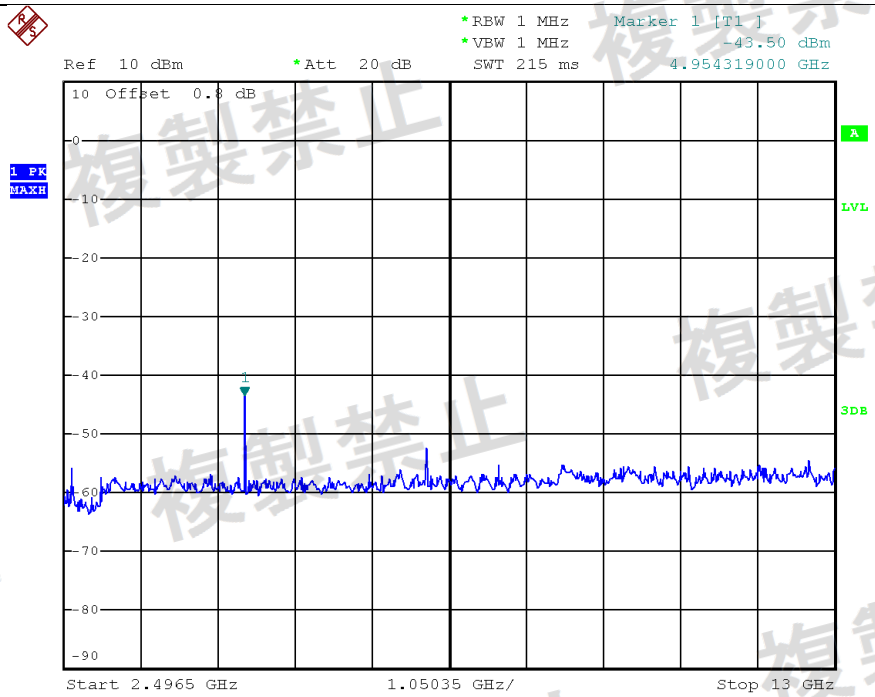

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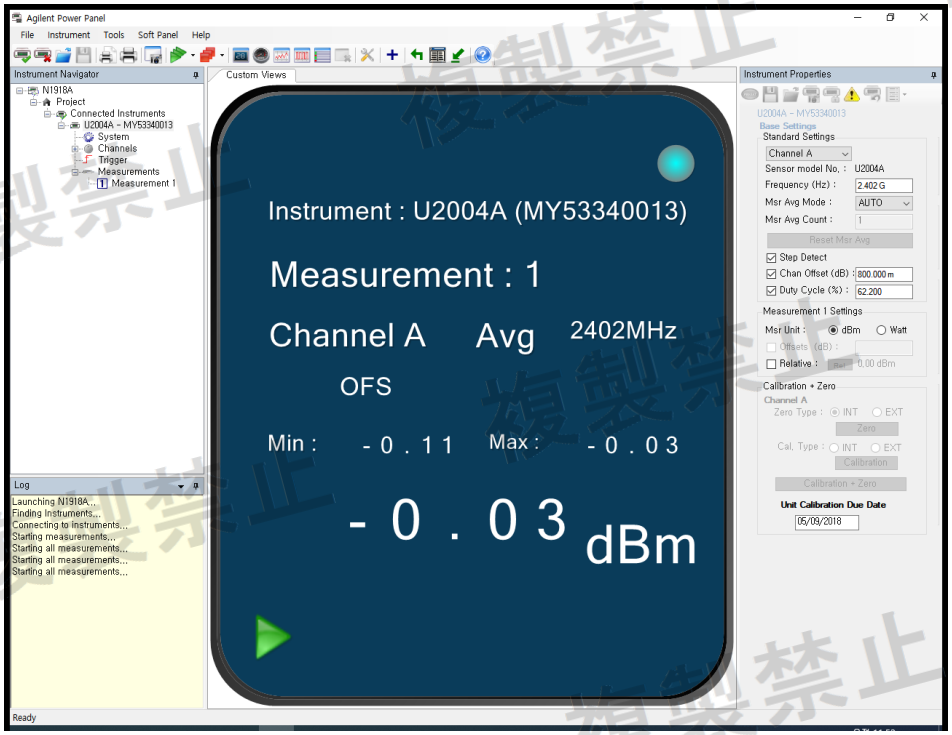
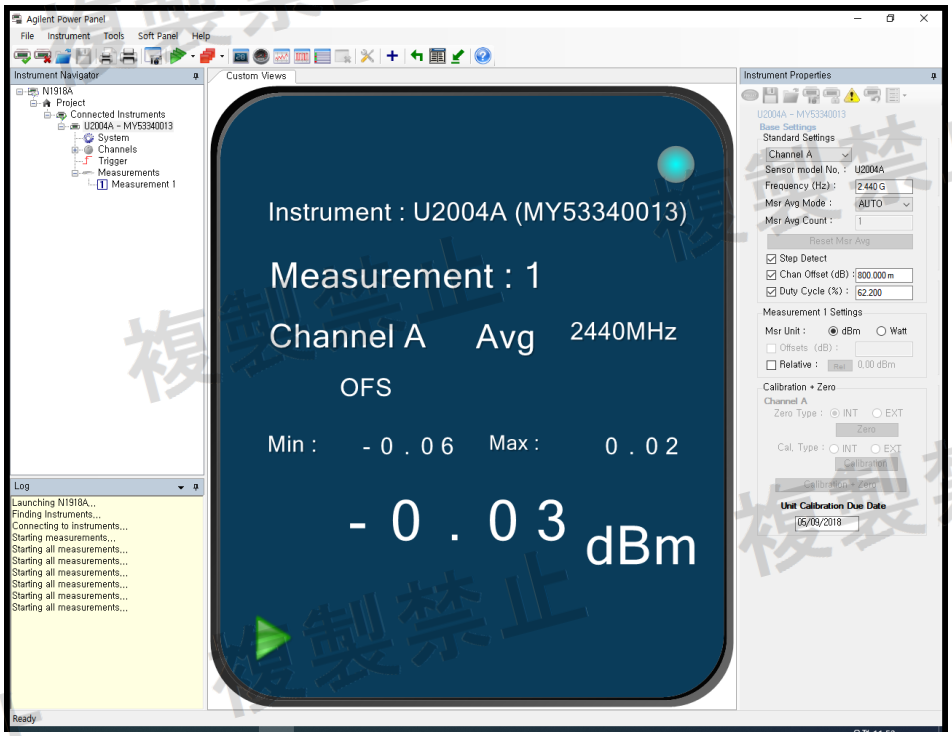
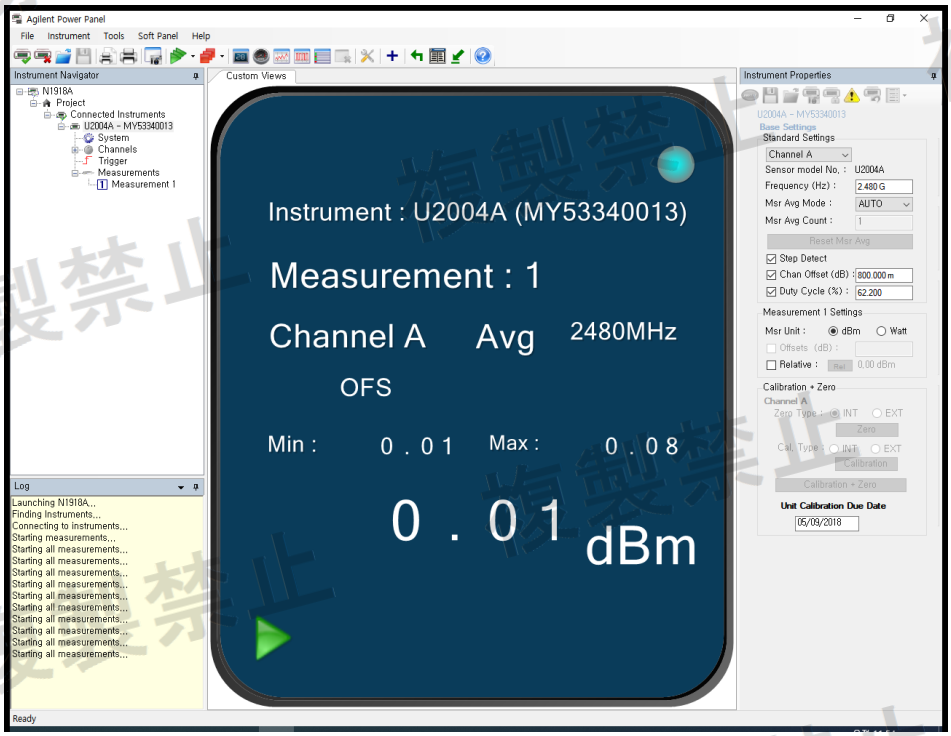
Antenna Power

LOW



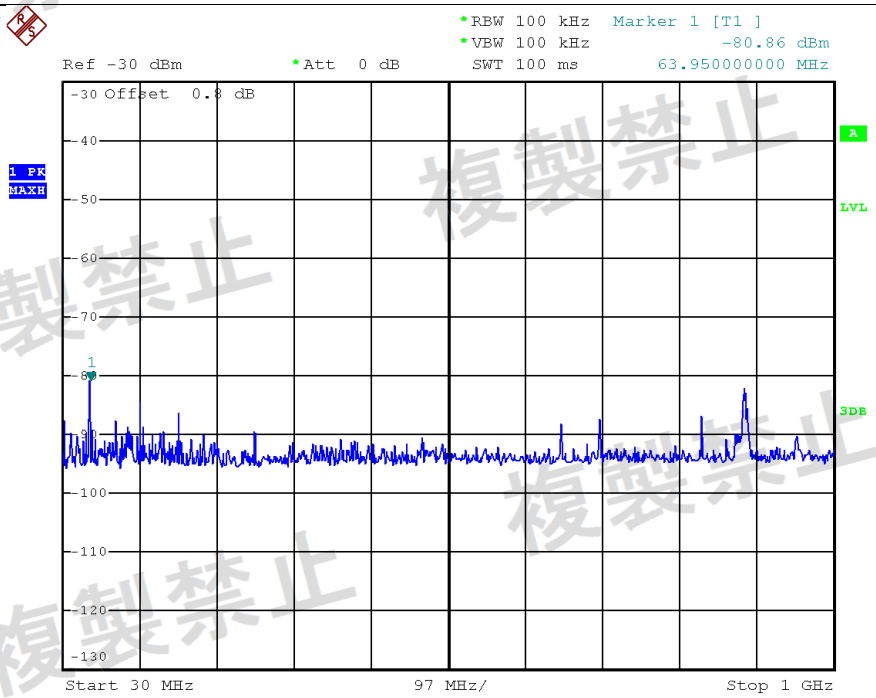
MID



HIGH	 Agilent Power Panel File Instrument Tools Soft Panel Help Instrument Navigator N1918A Project Connected Instruments U2004A - MY53340013 System Channels Trigger Measurements Measurement 1 Custom Views Instrument : U2004A (MY53340013) Measurement : 1 Channel A Avg 2480MHz OFS Min : 0.01 Max : 0.08 0.01 dBm Instrument Properties Standard Settings Channel A Sensor model No. : U2004A Frequency (Hz) : 2.480 G Msr Avg Mode : AUTO Msr Avg Count : 1 Reset Msr Avg Step Detect Chan Offset (dB) : 800.000 m Duty Cycle (%) : 62.200 Measurement 1 Settings Msr Unit : dBm Watt Offsets (dB) : Relative : Rel 0.00 dBm Calibration + Zero Channel A Zero Type : INT EXT Zero Cal. Type : INT EXT Calibration Calibration + Zero Unit Calibration Due Date 05/09/2018 Log Launching N1918A... Finding Instruments... Connecting to Instruments... Starting measurements... Starting all measurements... Ready

Secondary Radiated Emissions

LOW



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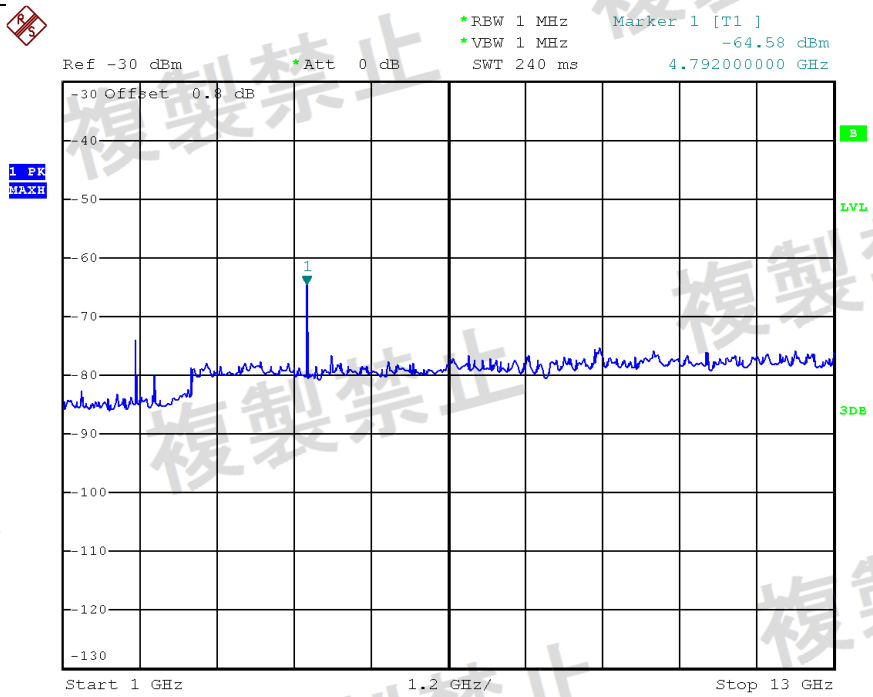

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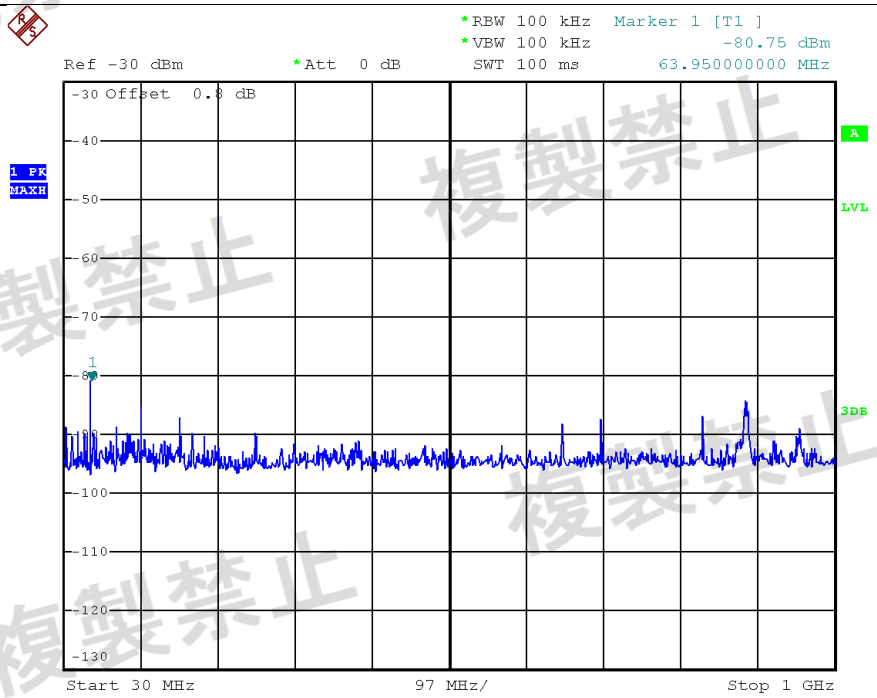
Secondary Radiated Emissions

MID



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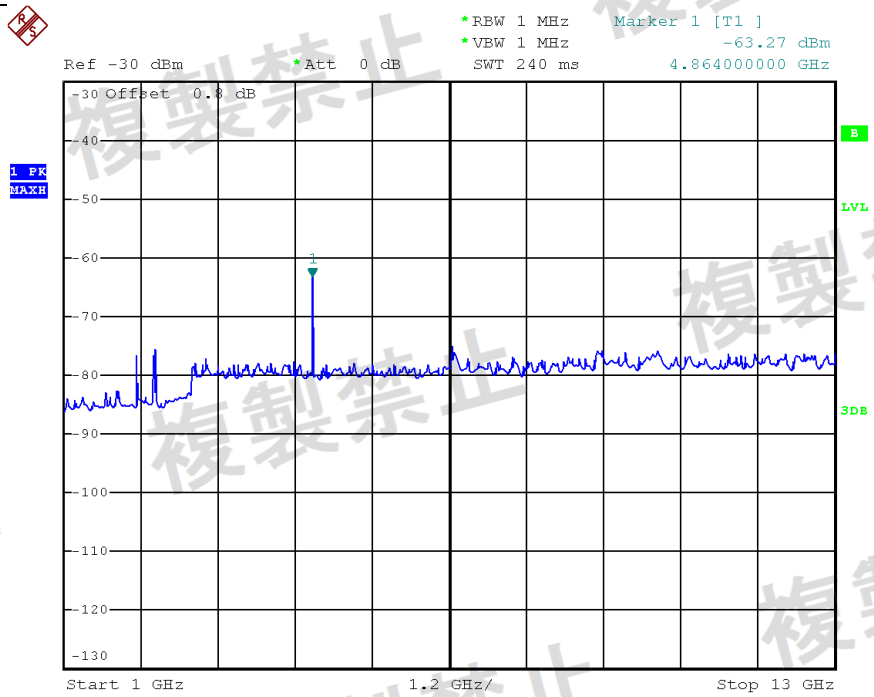

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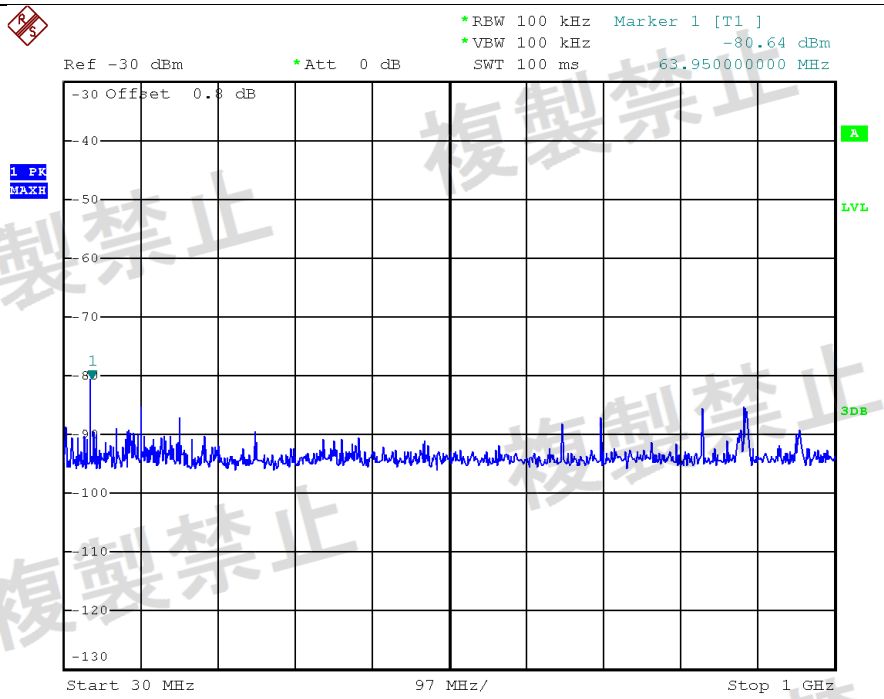
Secondary Radiated Emissions

HIGH



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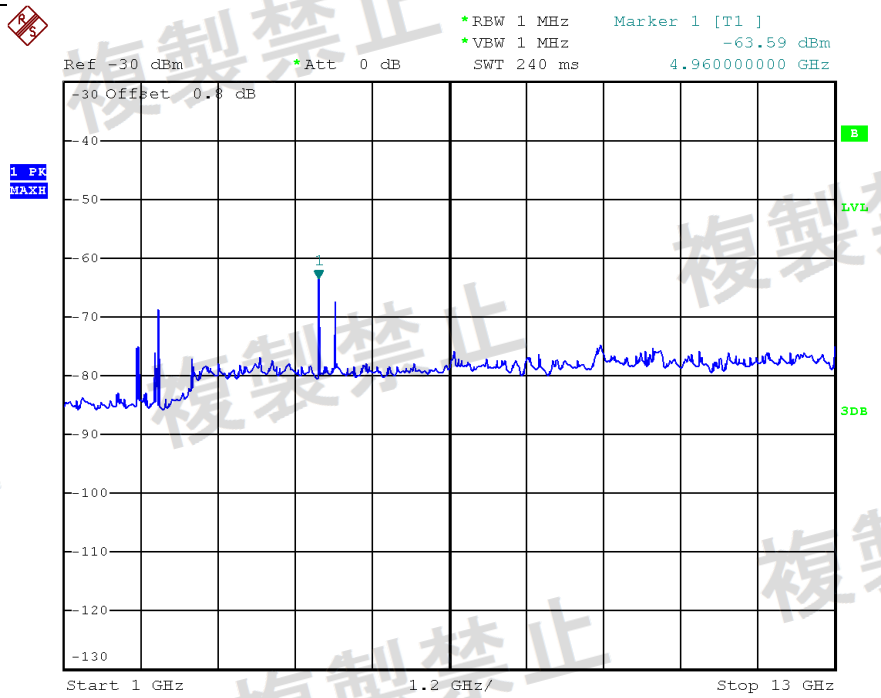

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