

2.4GHz Wideband Low Power Data Communication System Test Report

Product Name	ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Model No.	HC-A05,MD-A01,HC-A05K

Applicant	ASUSTeK COMPUTER INC.
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Date of Receipt	Apr. 25, 2020
Issued Date	Aug. 21, 2020
Report No.	2070421R-E3032140406
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

Issued Date : Aug. 21, 2020

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Applicant	ASUSTeK COMPUTER INC.
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Manufacturer	ASUSTeK COMPUTER INC.
Model No.	HC-A05,MD-A01,HC-A05K
EUT Rated Voltage	DC 3.8V (Power by Battery)
EUT Test Voltage	DC 3.8V (Power by Battery)
Trade Name	ASUS
Test Method	Public notice of MIC No.88 test method of specified radio equipment (January 26, 2004) Annex43. Article 2 paragraph 1 item 19
Test Result	Complied

Documented By

: 

(Senior Adm. Specialist / Joanne Lin)

Tested By

: 

(Senior Engineer / Bill Lin)

Approved By

: 

(Director / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

Revision History

Report No.	Version	Description	Issued Date
2040680R-E3032140406	V1.0	Initial issue of report.	2020-06-29
2070421R-E3032140406	V1.0	Add two Model No.: MD-A01,HC-A05K and change Product Name	2020-08-21

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Trade Name	ASUS
Model No.	HC-A05,MD-A01,HC-A05K
SERIAL NUMBER	N/A
Frequency Range	2402-2480MHz
Number of Channels	40CH
Type of Modulation	GFSK (1Mbps)
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Declared Output Power	2.374mW
Charging clip	ASUS / HC-A05

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ASUS	N/A	PIFA Antenna	-0.61dBi for 2.4GHz

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 01:	2404 MHz	Channel 02:	2406 MHz	Channel 03:	2408 MHz
Channel 04:	2410 MHz	Channel 05:	2412 MHz	Channel 06:	2414 MHz	Channel 07:	2416 MHz
Channel 08:	2418 MHz	Channel 09:	2420 MHz	Channel 10:	2422 MHz	Channel 11:	2424 MHz
Channel 12:	2426 MHz	Channel 13:	2428 MHz	Channel 14:	2430 MHz	Channel 15:	2432 MHz
Channel 16:	2434 MHz	Channel 17:	2436 MHz	Channel 18:	2438 MHz	Channel 19:	2440 MHz
Channel 20:	2442 MHz	Channel 21:	2444 MHz	Channel 22:	2446 MHz	Channel 23:	2448 MHz
Channel 24:	2450 MHz	Channel 25:	2452 MHz	Channel 26:	2454 MHz	Channel 27:	2456 MHz
Channel 28:	2458 MHz	Channel 29:	2460 MHz	Channel 30:	2462 MHz	Channel 31:	2464 MHz
Channel 32:	2466 MHz	Channel 33:	2468 MHz	Channel 34:	2470 MHz	Channel 35:	2472 MHz
Channel 36:	2474 MHz	Channel 37:	2476 MHz	Channel 38:	2478 MHz	Channel 39:	2480 MHz

Note:

1. The EUT is an ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP with built-in BLE and NFC Tag transceiver.
2. This report is a copy report and the original report owner is the same. Add two Model No.: MD-A01,HC-A05K and change product name.

The original report number is 2040680R-E3032140406.

3. The different of each model is shown as below:

Model Number	Product Name	GPS	Exterior	NFC
HC-A05	ASUS VivoWatch SP	V	V	V
HC-A05K	ASUS VivoWatch MD	X	X	X
MD-A01	ASUS VivoWatch SP	X	V	X

Test Mode	Mode 1: Transmit
	Mode 2: Receive

1.2. Operation Description

The EUT is a ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP with built-in BLE and NFC Tag transceiver. The number of the channels is 40. This device provides two kinds of transmitting speed and modulation, GFSK(1Mbps). The antenna is PIFA Antenna.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 40 channels.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted.

The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

The EUT is forward-compatible with the Bluetooth Low Energy operating mode, which provides a dramatic reduction in the power consumption of the Bluetooth radio and baseband.

1.3. EUT Exercise Software

- (1) Provide DC power to EUT.
- (2) Execute software “Direct Test Mode Tool Version 0.9.1” on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.4. Parament of test software setting

The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software	Direct Test Mode Tool 0.9.1		
Frequency	2402MHz	2440MHz	2480MHz
GFSK	4	4	3

1.5. Test Conditions

Voltage Test Item	Test Voltage	Voltage meter reading value (RF Chip NRF52832-CIAA pin A7)
Nominal Voltage	DC 3.8V	1.8V DC
Highest Voltage	DC 4.35V	1.8V DC
Lowest Voltage	DC 3.3V	1.8V DC

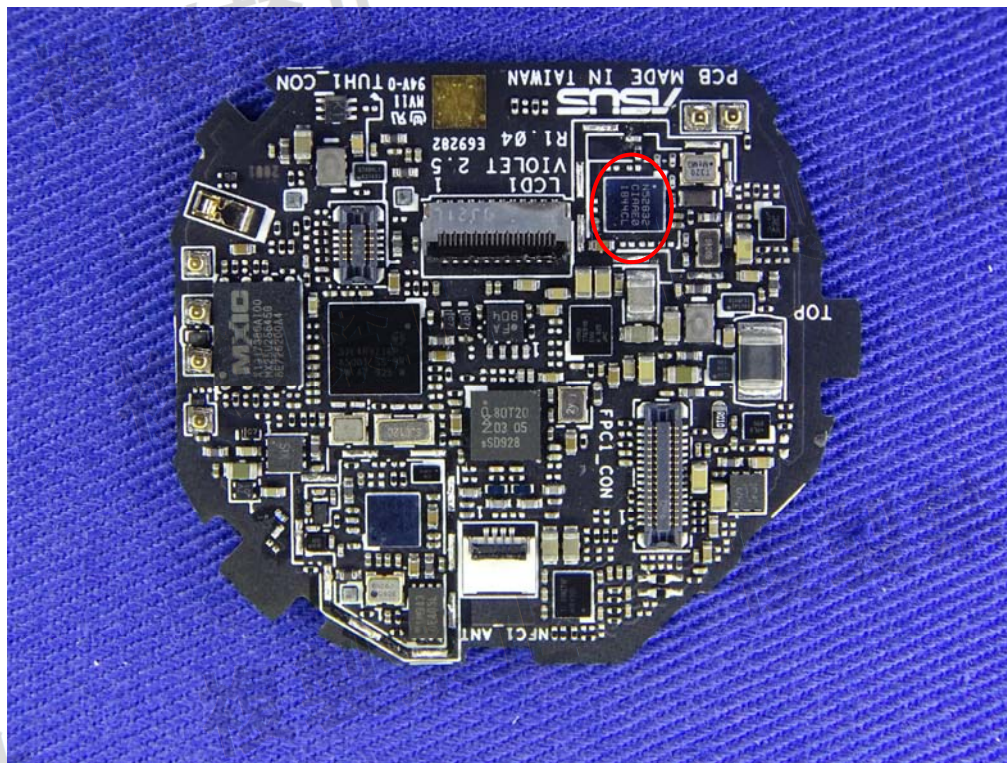
Note:

The Voltage supply for RF Chip NRF52832-CIAA pin A7 is 1.8 VDC.

The internal supply gives a fluctuation value less than 1 % (**Around 0% from max. to min.**)

1.6. RF and IF section must be tamper requirement

Requirement	Comments	Result
RF, IF and Modulation section must be tamper	<input type="checkbox"/> Use Special Screw <input checked="" type="checkbox"/> Metal Shielding is Soldered <input checked="" type="checkbox"/> Use Ball Grid Array (BGA) (Please see Attachment: EUT Detailed Photographs)	Complete
	<input checked="" type="checkbox"/> RF module/Chip pin >10 <input checked="" type="checkbox"/> RF module/Chip pins distance <1.5mm (Please see Attachment: EUT Detailed Photographs)	Complete



1.7. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conductive	Temperature (°C)	15~35 °C	22°C
	Humidity (%RH)	20~75 %	52%

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No.159, Sec. 2, Wenhua 1st Rd., Linkou Dist.,
New Taipei City 24457, Taiwan, R.O.C.

Phone number : 886-2-2602-7968
Fax number : 866-2-2602-3286
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.8. List of Test Item and Equipment

For Conducted measurements /ASR2

	Equipment	Manufacturer	Model No.	Serial No.	Calibrated	Cal. Method	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSV30	103466	ETC	*(c)	2019.12.16	2020.12.15
X	Power Meter	Anritsu	ML2496A	1548003	ETC	*(c)	2019.12.17	2020.12.16
X	Power Sensor	Anritsu	MA2411B	1531024	ETC	*(c)	2019.12.17	2020.12.16
X	Power Sensor	Anritsu	MA2411B	1531025	ETC	*(c)	2019.12.17	2020.12.16

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : DEKRA Conduction Test System V9.0.5
4.
 - 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 agency under Article 102-18 paragraph (1).
 - d) Calibration conducted by using other equipment that listed above from a) to c).

1.9. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty
Output Power and Output Power Tolerance	$\pm 0.91 \text{ dB}$
Occupied Bandwidth	$\pm 682.83 \text{ Hz}$
Frequency Tolerance	$\pm 682.83 \text{ Hz}$
Transmitter Spurious Emissions	$\pm 2.53 \text{ dB}$
Receiver Spurious Emissions	$\pm 2.53 \text{ dB}$

2. Output Power and Output Power Tolerance

2.1. Test Setup



2.2. Limits

10mW (10dBm)

2.3. Test Procedure

Output power is measured using the power meter and record the value.

2.4. Test Result of Output Power and Output Power Tolerance

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Output Power
Test Date : 2020/05/14
Test Mode : Mode 1: Transmit

Maximum Antenna Gain= -0.61dBi				
Frequency (MHz)	Real Value (dBm)	Limit (dBm)	Real Value (EIRP) (dBm)	Limit (EIRP) (dBm)
2402	2.33	10	1.72	12.14
2440	2.25	10	1.64	12.14
2480	2.08	10	1.47	12.14

Real Value (EIRP) = Real Value + Antenna Gain

Test Result	PASS
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Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Output Power Tolerance
Test Date : 2020/05/14
Test Mode : Mode 1: Transmit

Frequency (MHz)	Declared Output Power (mW)	Output Power (mW)	Tolerance (%)	Limit (%)
2402	2.374	1.710	-27.97	+20% to -80%
2440	2.374	1.679	-29.28	+20% to -80%
2480	2.374	1.614	-32.00	+20% to -80%

Note: Deviation = (Output Power - Declared Output Power) / Declared Output Power * 100%

Test Result	PASS
-------------	------

3. Occupied Bandwidth

3.1. Test Setup



3.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) A measurement instrument with an integrated 99% power bandwidth function may be used to automate the test process.
- (c) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (d) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

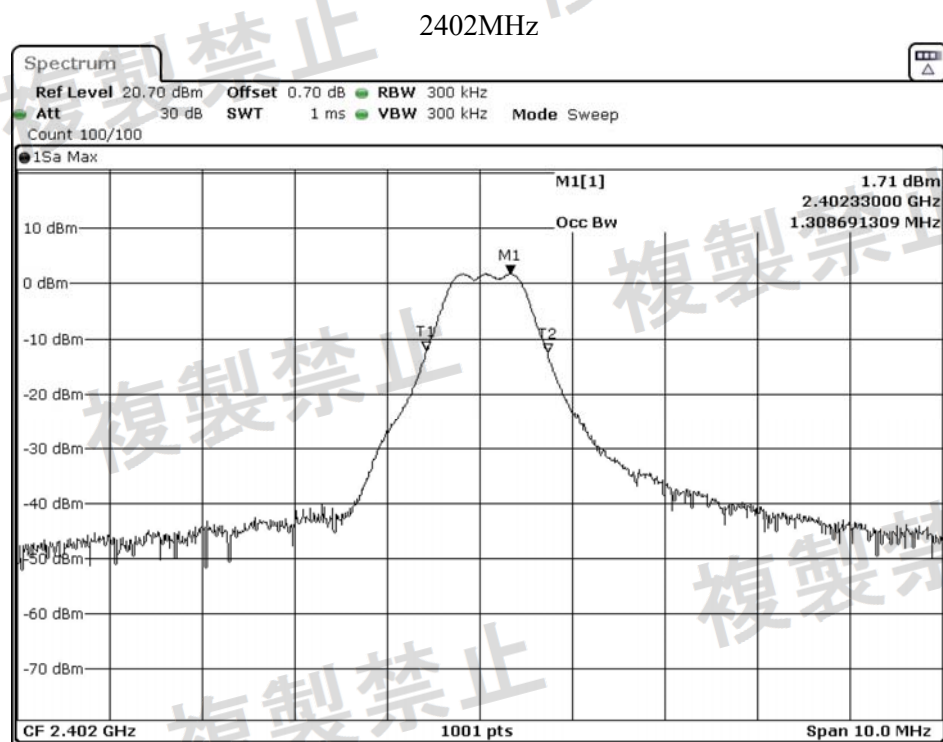
3.3. Limits

≤ 26 MHz for DSSS&OFDM, ≤ 83.5 MHz for FHSS,
 ≤ 38 MHz for OFDM(Wide-band)

3.4. Test Result of Occupied Bandwidth

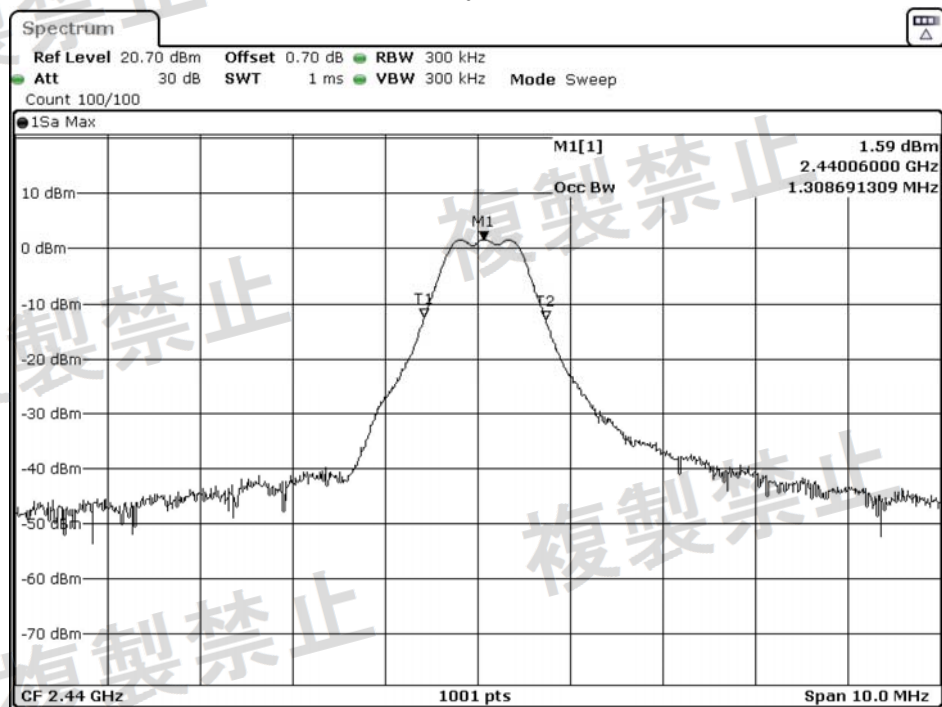
Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
 Test Item : Occupied Bandwidth
 Test Mode : Mode 1: Transmit

Frequency (MHz)	Reading Value (MHz)	Limit (MHz)
2402	1.309	≤ 26
2440	1.309	≤ 26
2480	1.309	≤ 26



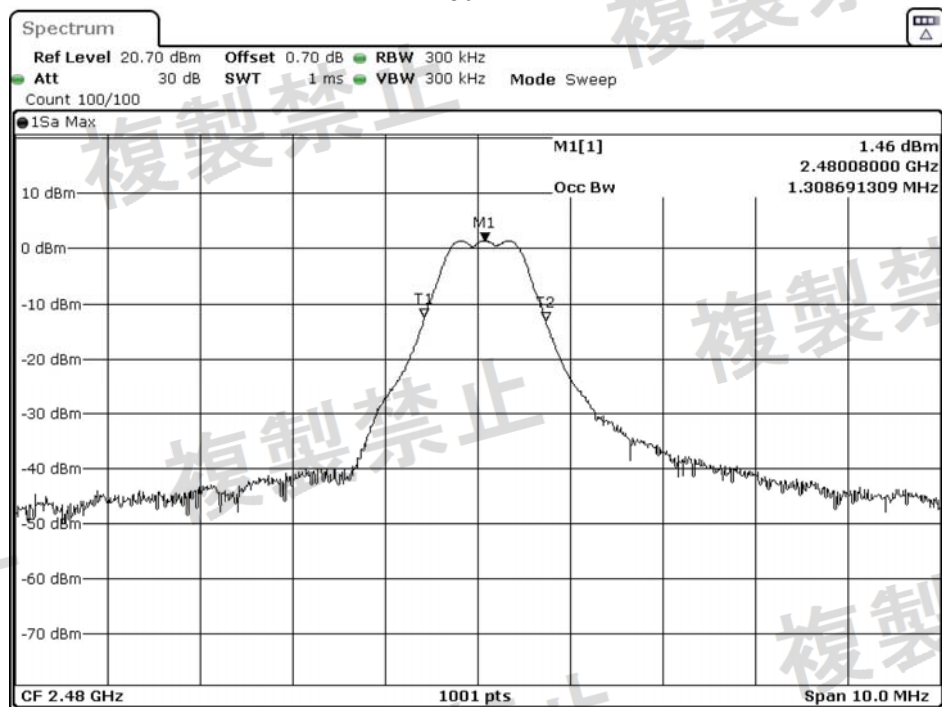
Date: 26.MAY.2020 14:41:37

2440MHz



Date: 26.MAY.2020 14:53:51

2480MHz



Date: 26.MAY.2020 15:13:38

Test Result

PASS

4. Frequency Tolerance

4.1. Test Setup



4.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

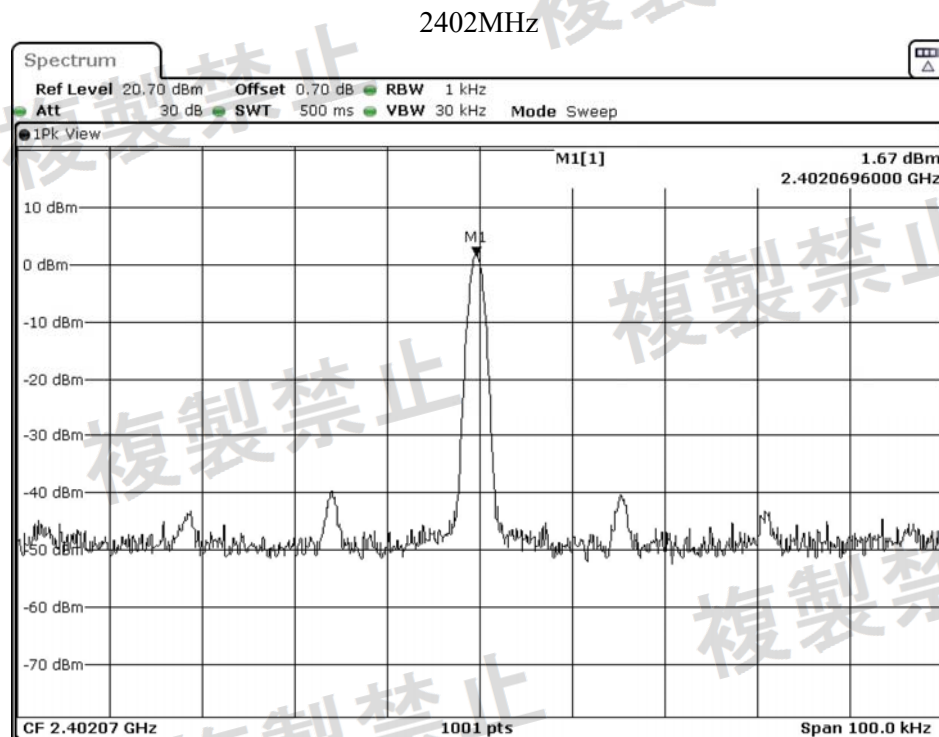
4.3. Limits

± 50 ppm

4.4. Test Result of Frequency Tolerance

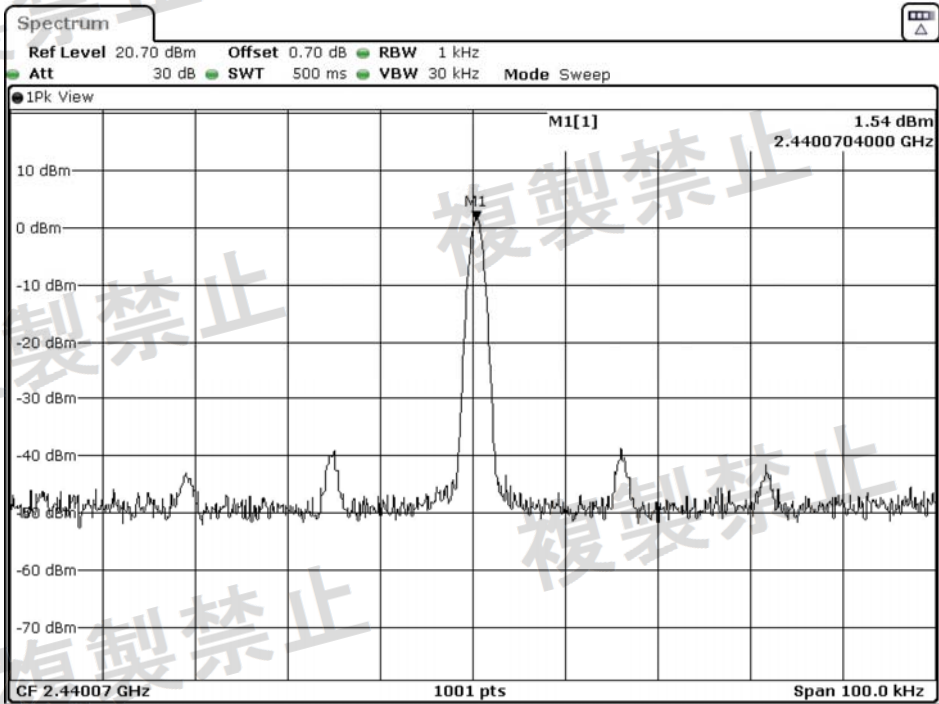
Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
 Test Item : Frequency Tolerance
 Test Mode : Mode 1: Transmit

Frequency (MHz)	Reading Value (MHz)	Tolerance (ppm)	Limit (ppm)
2402	2402.0696	28.97585	± 50
2440	2440.0704	28.85246	± 50
2480	2480.0718	28.95161	± 50



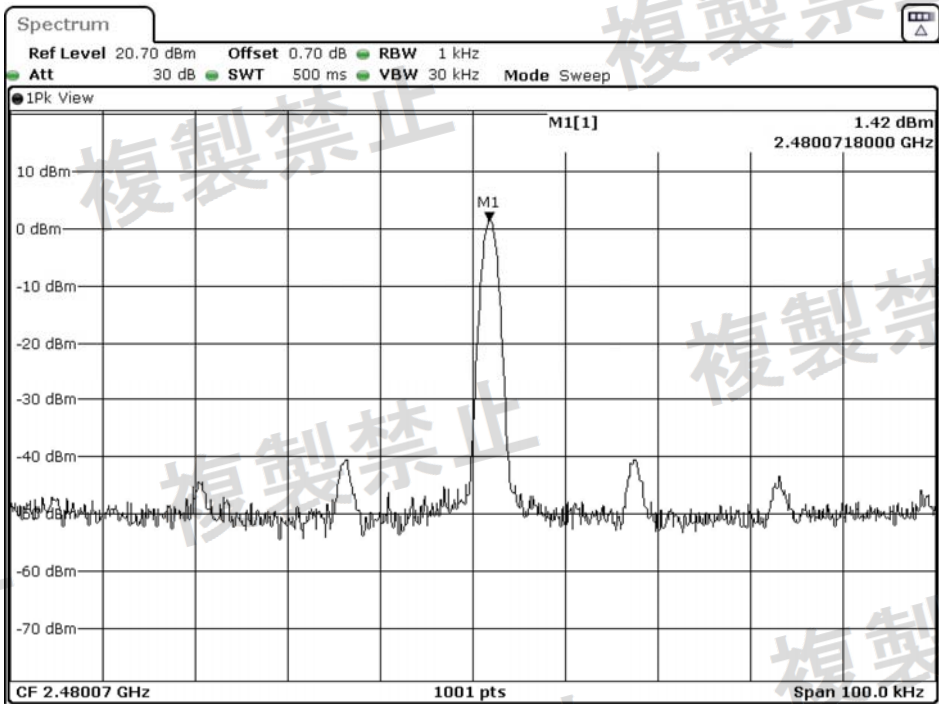
Date: 26.MAY.2020 14:40:41

2440MHz



Date: 26.MAY.2020 14:52:45

2480MHz



Date: 26.MAY.2020 15:12:08

Test Result

PASS

5. Transmitter Spurious Emissions

5.1. Test Setup



5.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

5.3. Limits

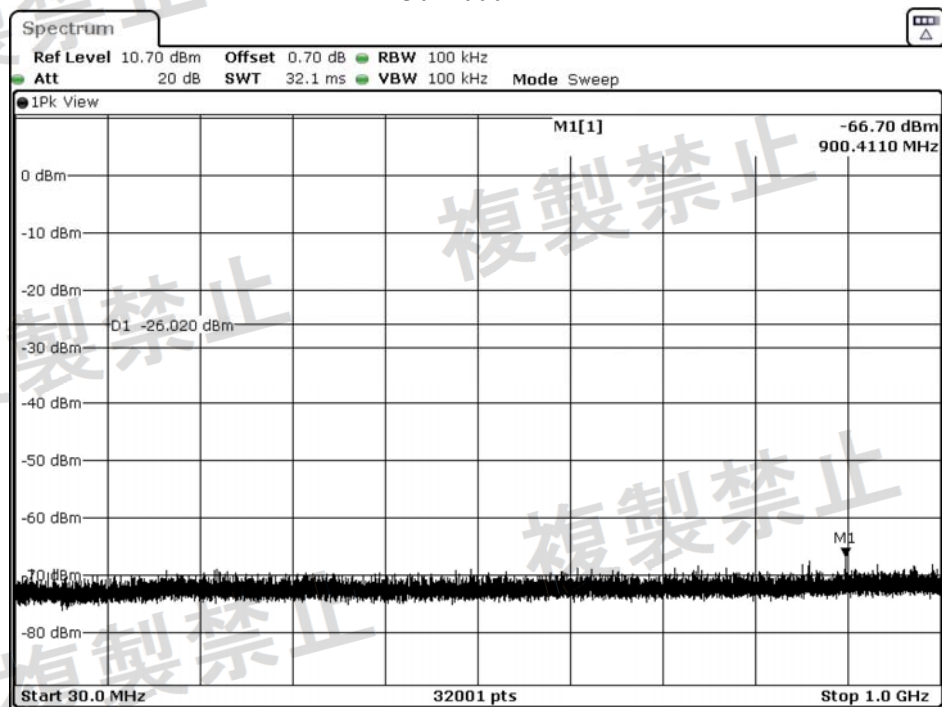
- $\leq 2.5\mu\text{W}$ for 30 – 2387 MHz
- $\leq 25\mu\text{W}$ for 2387 – 2400 MHz
- $\leq 25\mu\text{W}$ for 2483.5 – 2496.5 MHz
- $\leq 2.5\mu\text{W}$ for 2496.5 – 12500 MHz

5.4. Test Result of Transmitter Spurious Emissions

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Transmitter Spurious Emissions
Test Mode : Mode 1: Transmit (2402MHz)

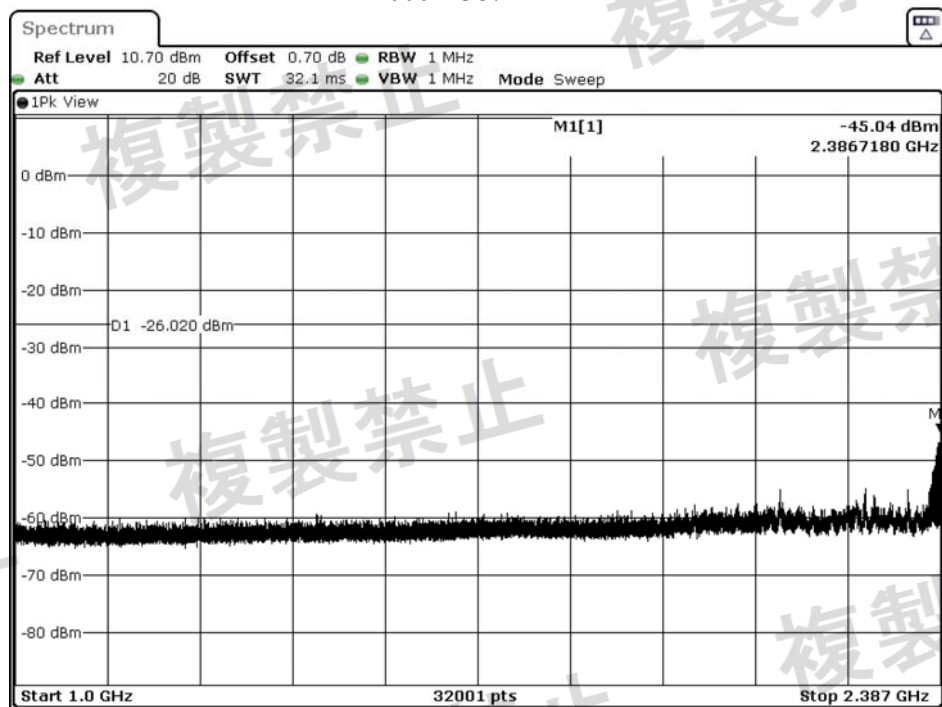
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-66.7	-26 (2.5uW)
1000 – 2387	-45.04	-26 (2.5uW)
2387 – 2400	-31.81	-16 (25uW)
2483.5 – 2496.5	-56.09	-16 (25uW)
2496.5 – 8000	-43.13	-26 (2.5uW)
8000 – 12750	-53.93	-26 (2.5uW)

30–1000MHz



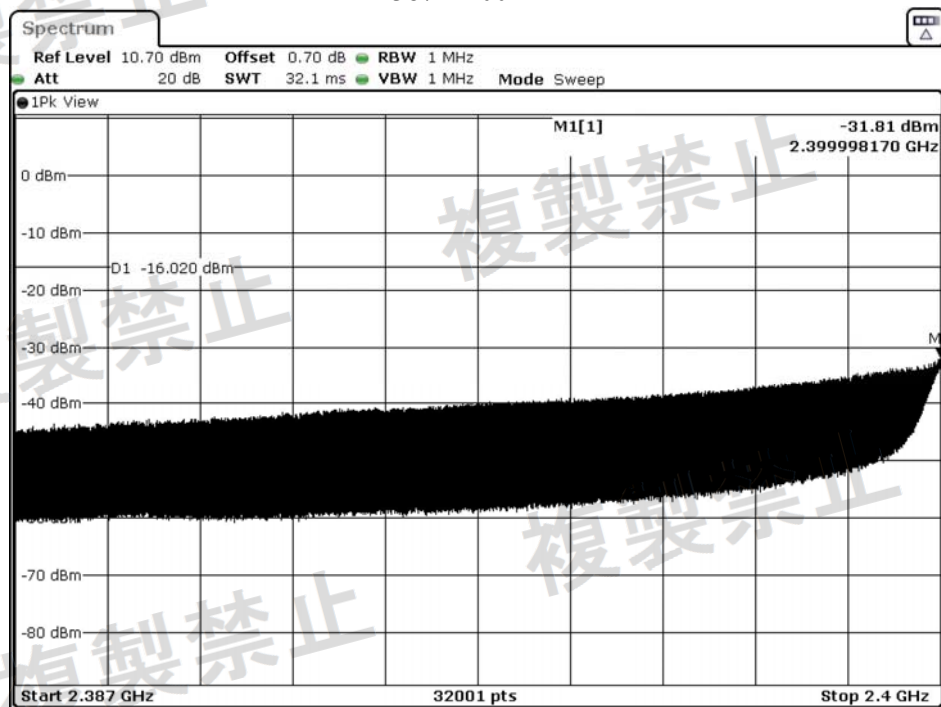
Date: 26.MAY.2020 14:49:28

1000–2387MHz



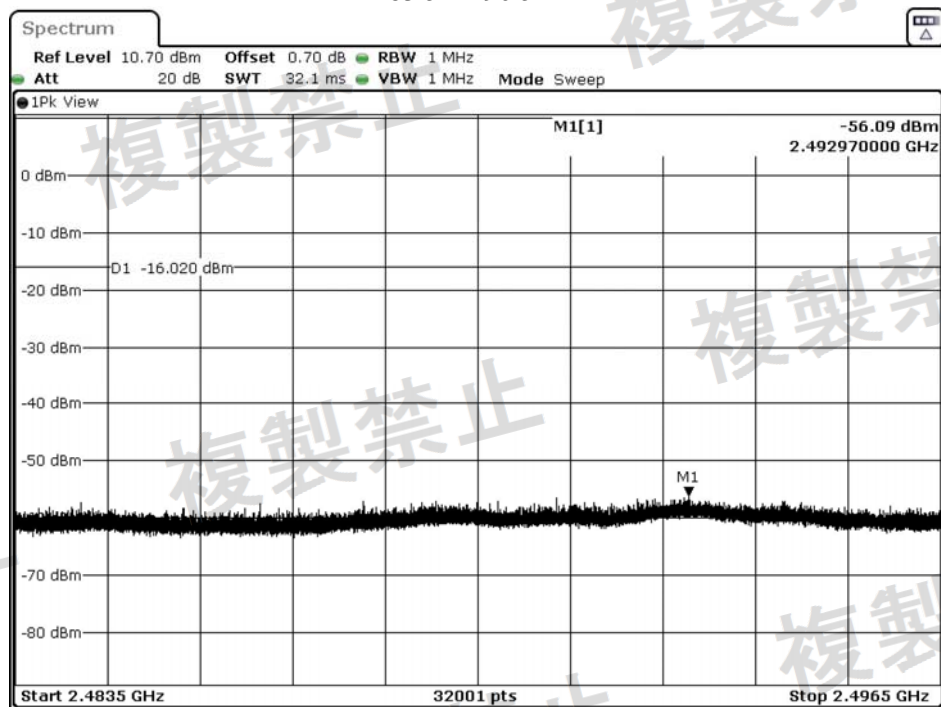
Date: 26.MAY.2020 14:49:49

2387–2400 MHz



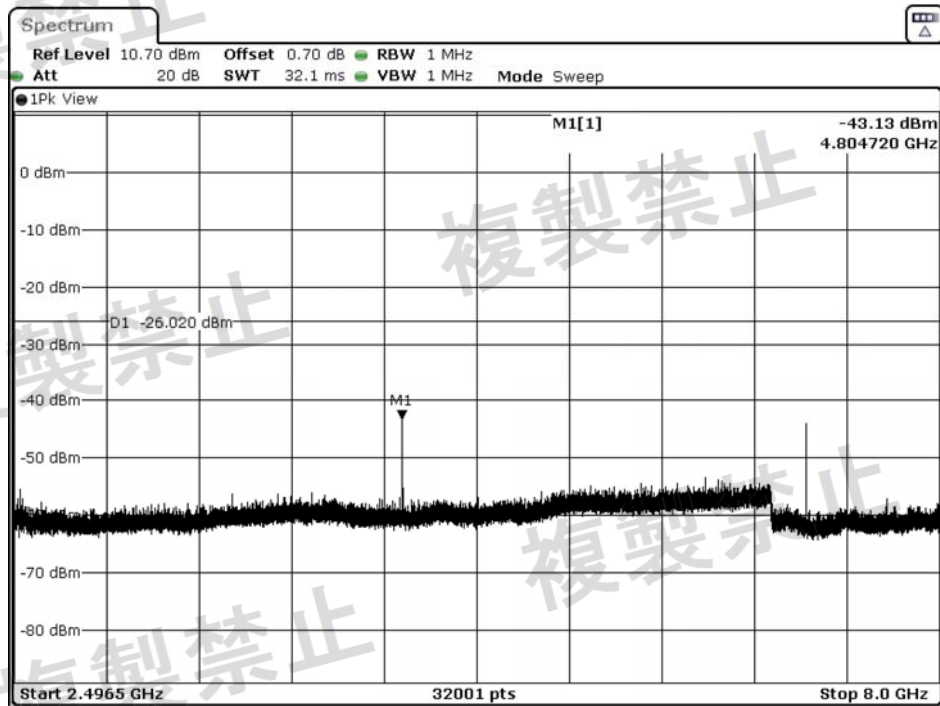
Date: 26.MAY.2020 14:50:11

2483.5–2496.5MHz



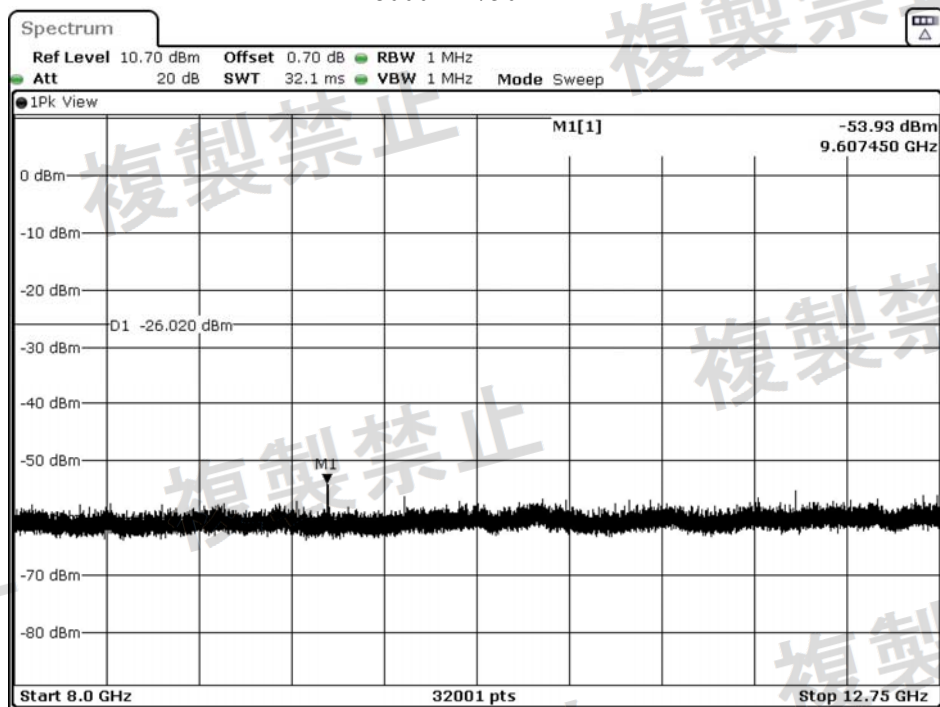
Date: 26.MAY.2020 14:50:34

2496.5–8000MHz



Date: 26.MAY.2020 14:50:57

8000–12750MHz

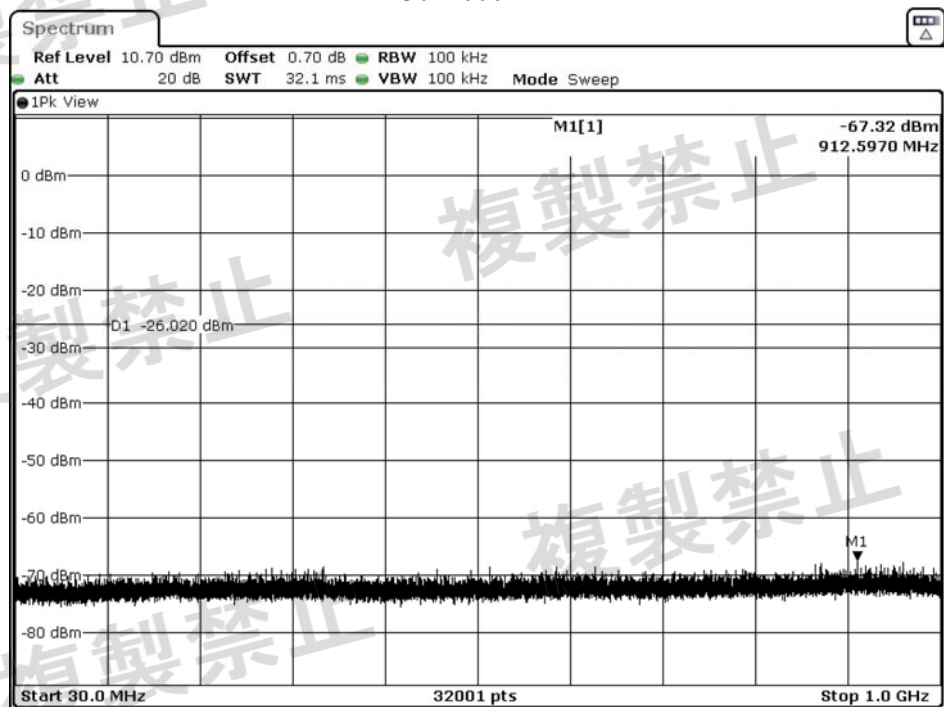


Date: 26.MAY.2020 14:51:19

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Transmitter Spurious Emissions
Test Mode : Mode 1: Transmit (2440MHz)

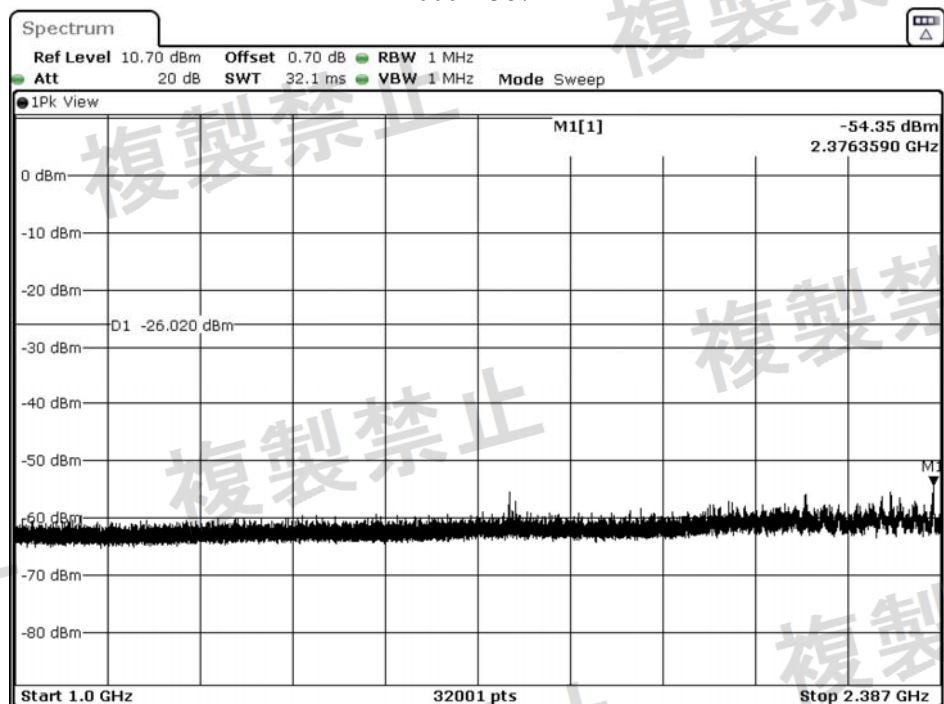
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-67.32	-26 (2.5uW)
1000 – 2387	-54.35	-26 (2.5uW)
2387 – 2400	-56.07	-16 (25uW)
2483.5 – 2496.5	-55.7	-16 (25uW)
2496.5 – 8000	-43.18	-26 (2.5uW)
8000 – 12750	-53.97	-26 (2.5uW)

30–1000MHz



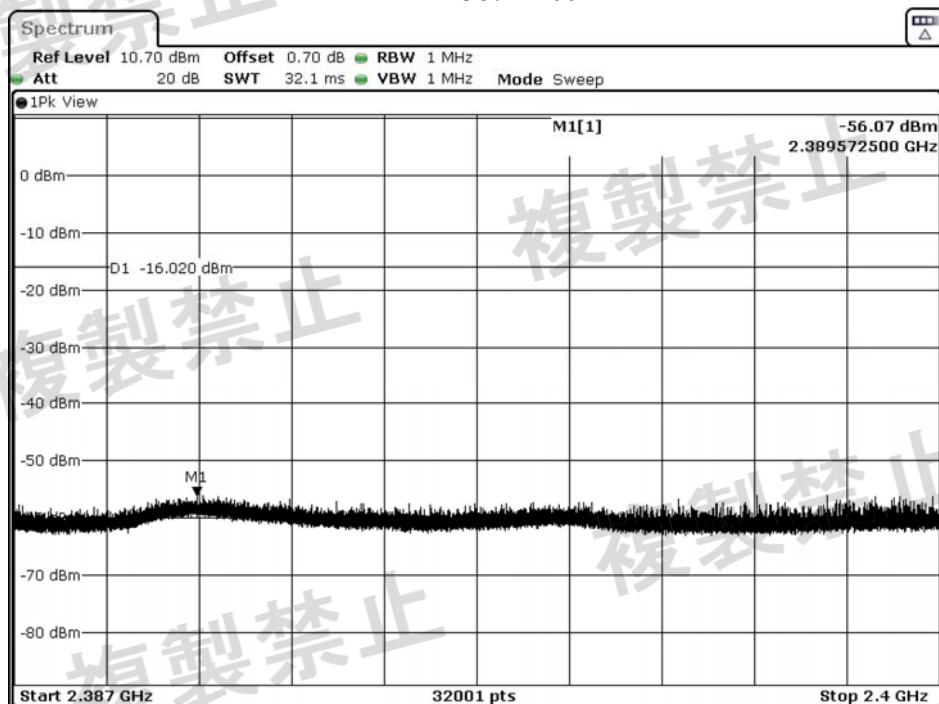
Date: 26.MAY.2020 14:58:52

1000–2387MHz



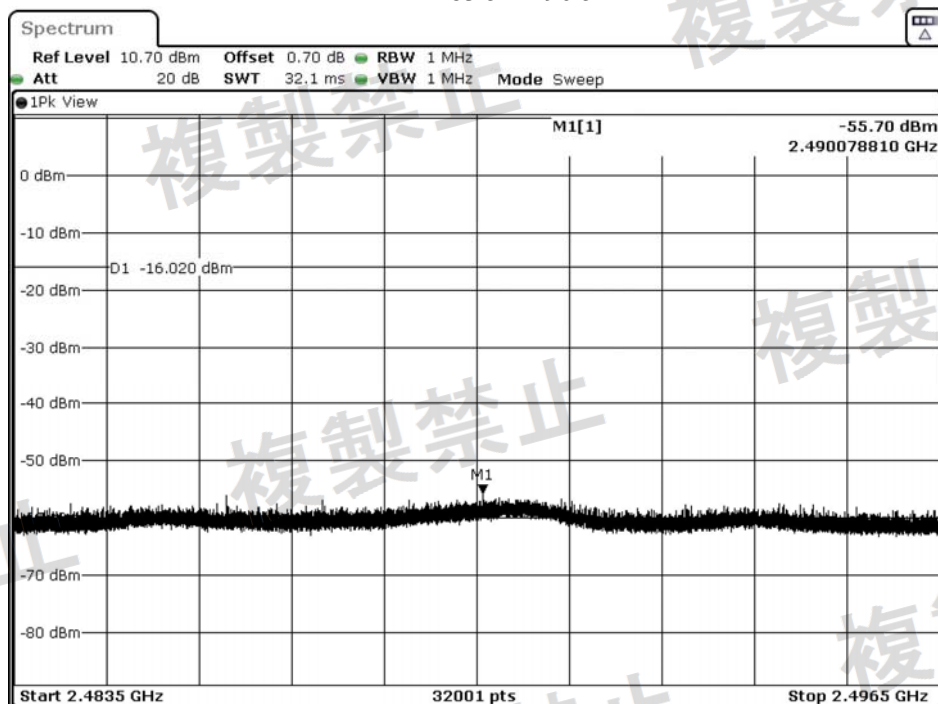
Date: 26.MAY.2020 14:59:14

2387–2400 MHz



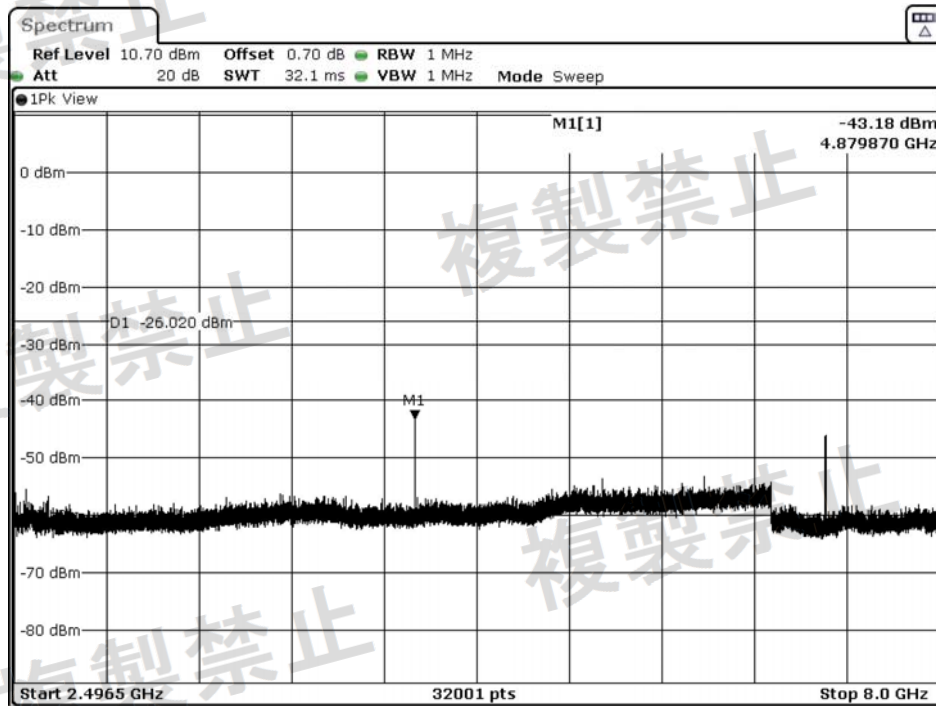
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2483.5–2496.5MHz



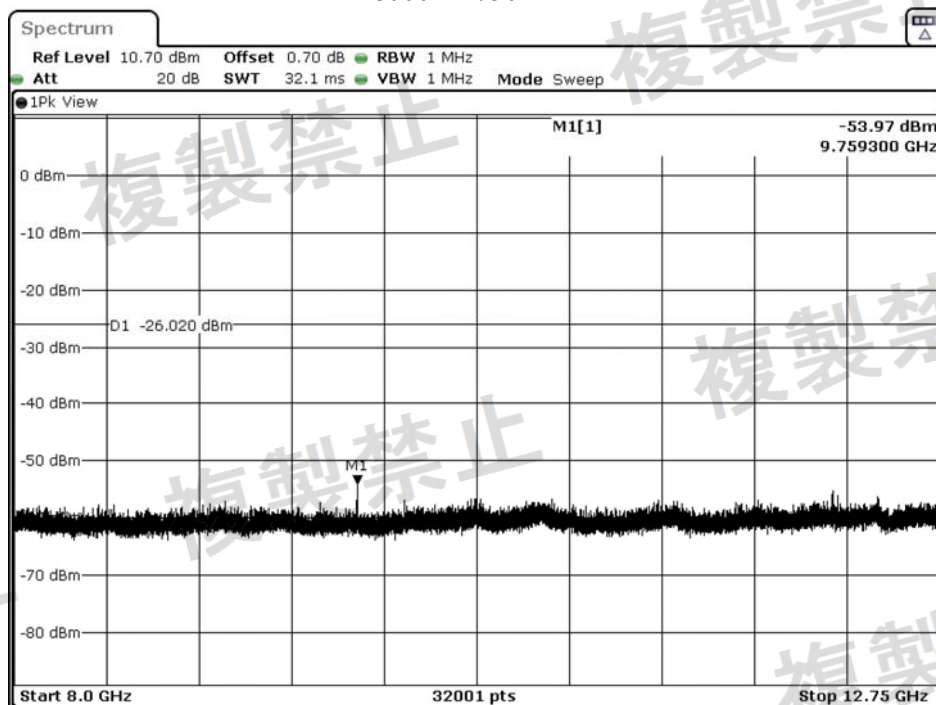
Date: 26.MAY.2020 14:59:59

2496.5–8000MHz



Date: 26.MAY.2020 15:00:21

8000–12750MHz

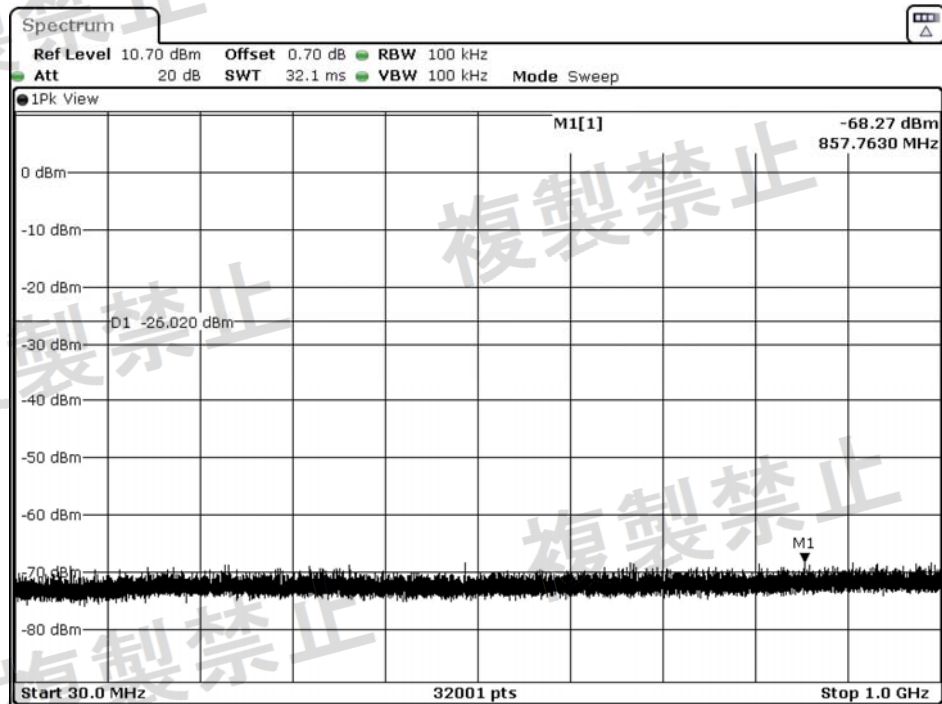


Date: 26.MAY.2020 15:00:44

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Transmitter Spurious Emissions
Test Mode : Mode 1: Transmit (2480MHz)

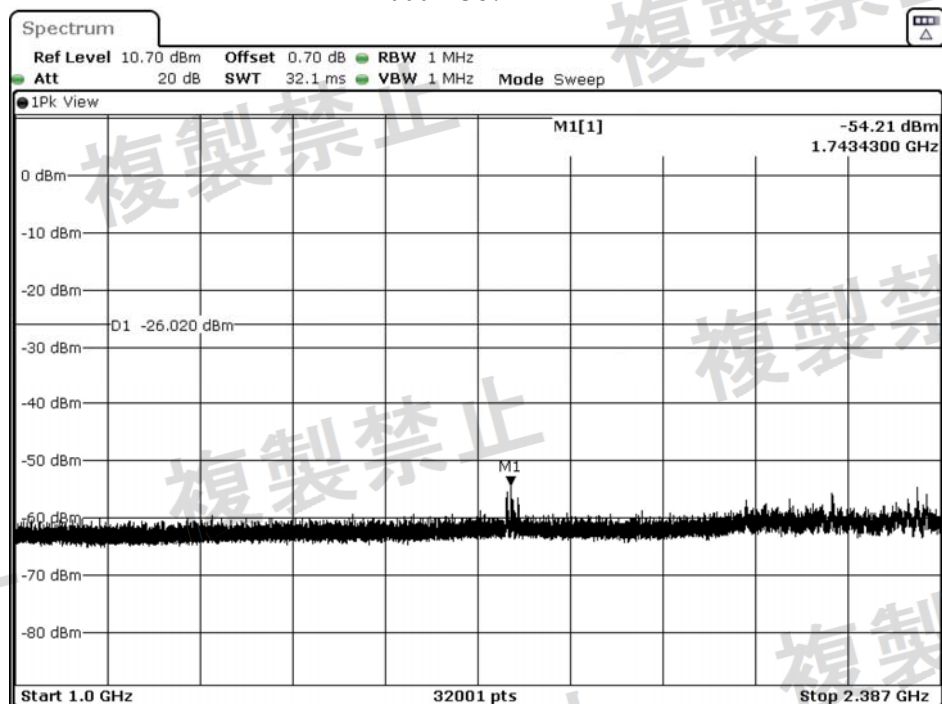
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-68.27	-26 (2.5uW)
1000 – 2387	-54.21	-26 (2.5uW)
2387 – 2400	-56.68	-16 (25uW)
2483.5 – 2496.5	-32.55	-16 (25uW)
2496.5 – 8000	-43.64	-26 (2.5uW)
8000 – 12750	-53.58	-26 (2.5uW)

30–1000MHz



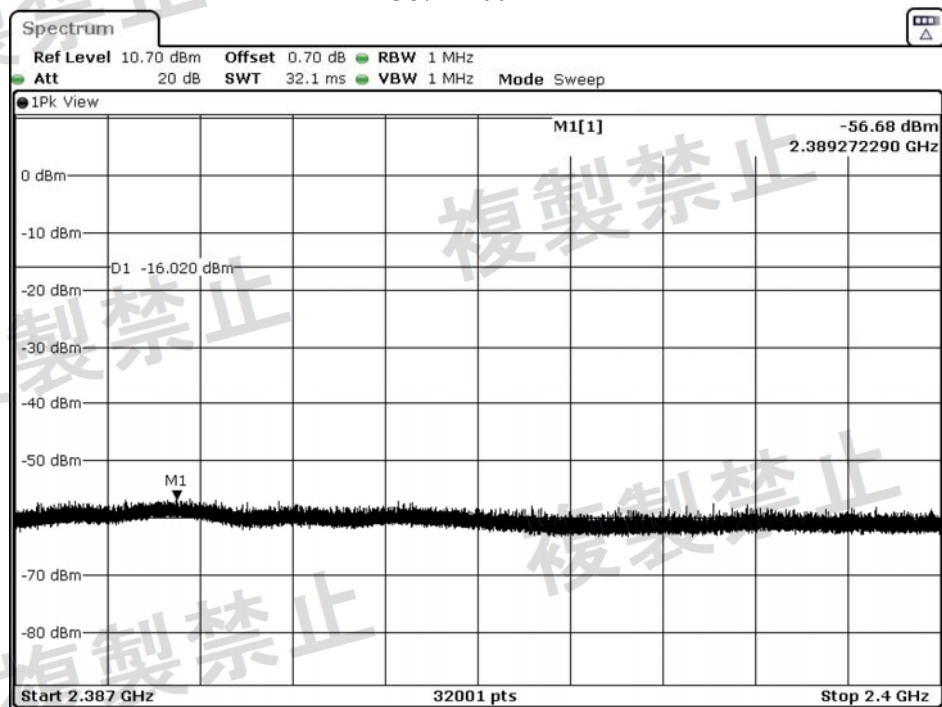
Date: 26.MAY.2020 15:18:31

1000–2387MHz



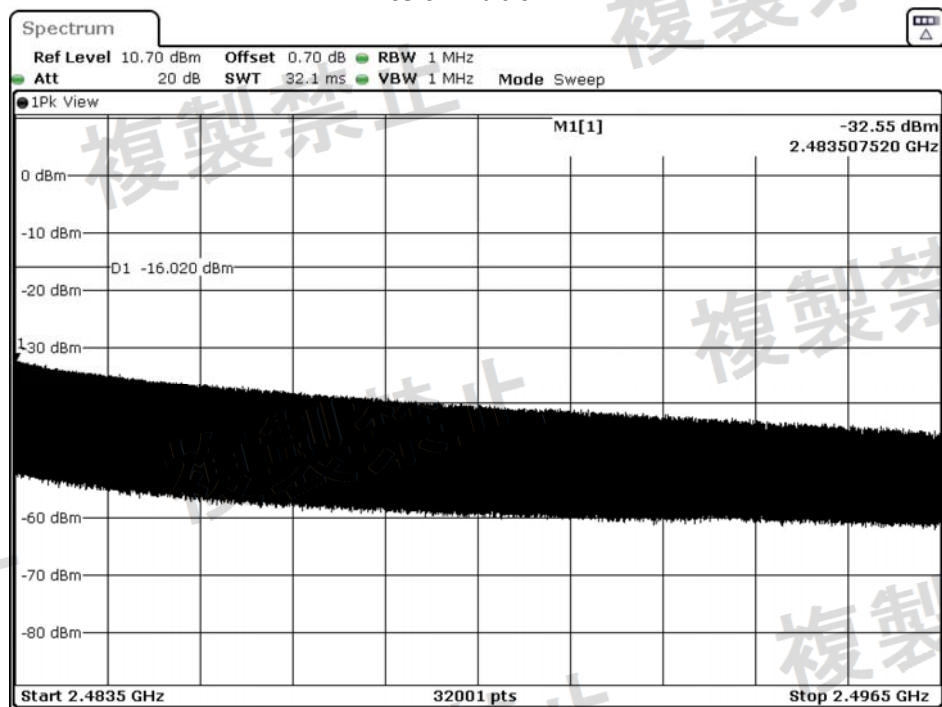
Date: 26.MAY.2020 15:18:52

2387–2400 MHz



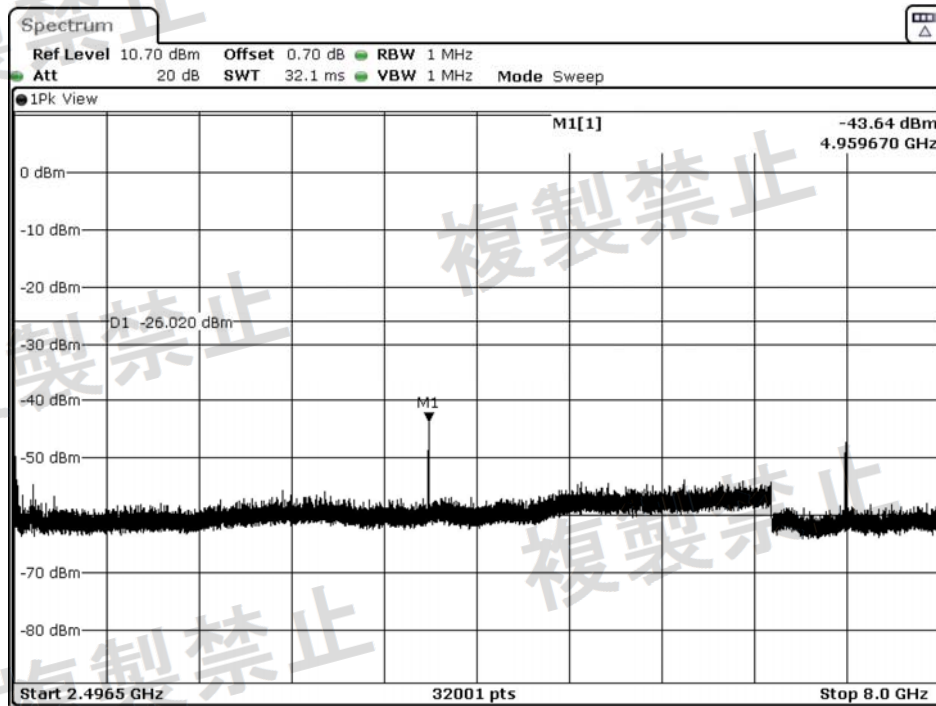
Date: 26.MAY.2020 15:19:15

2483.5–2496.5MHz



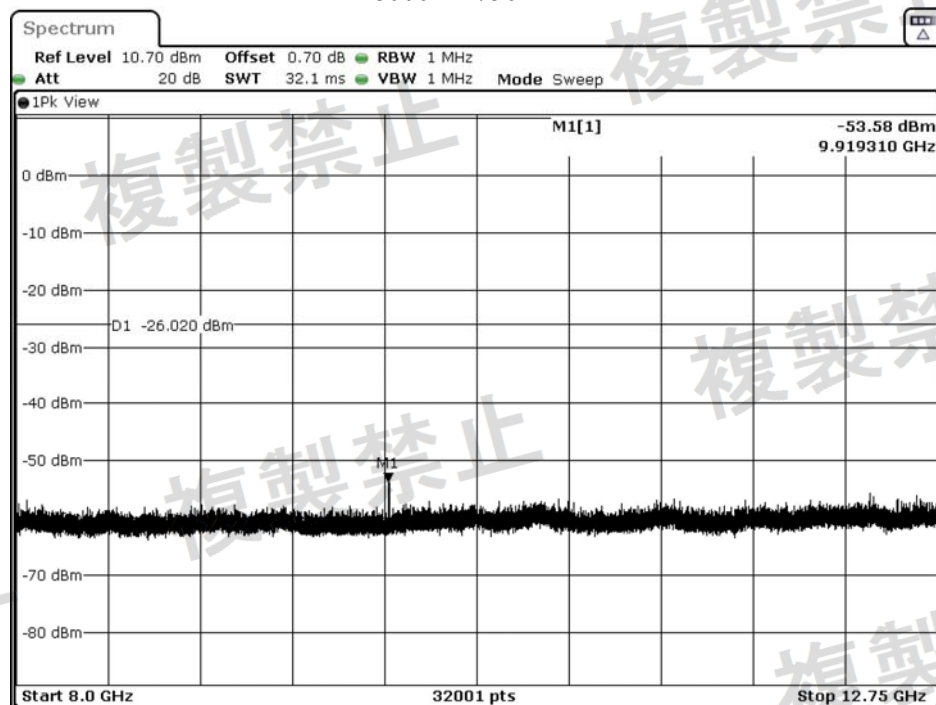
Date: 26.MAY.2020 15:19:38

2496.5–8000MHz



Date: 26.MAY.2020 15:20:00

8000–12750MHz



Date: 26.MAY.2020 15:20:22

Test Result

PASS

6. Receiver Suprious Emissions

6.1. Test Setup



6.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

6.3. Limits

$\leq 4\text{nW}$ for 30 – 1000 MHz

$\leq 20\text{nW}$ for 1000 – 3000 MHz

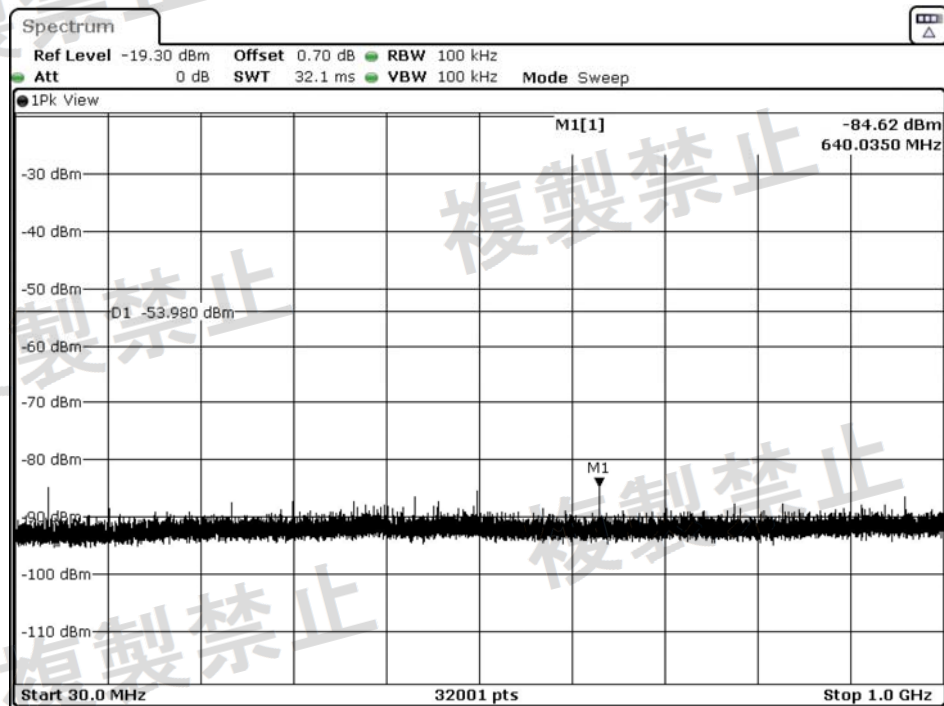
$\leq 20\text{nW}$ for 3000 – 12750 MHz

6.4. Test Result of Receiver Spurious Emissions

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receive (2402MHz)

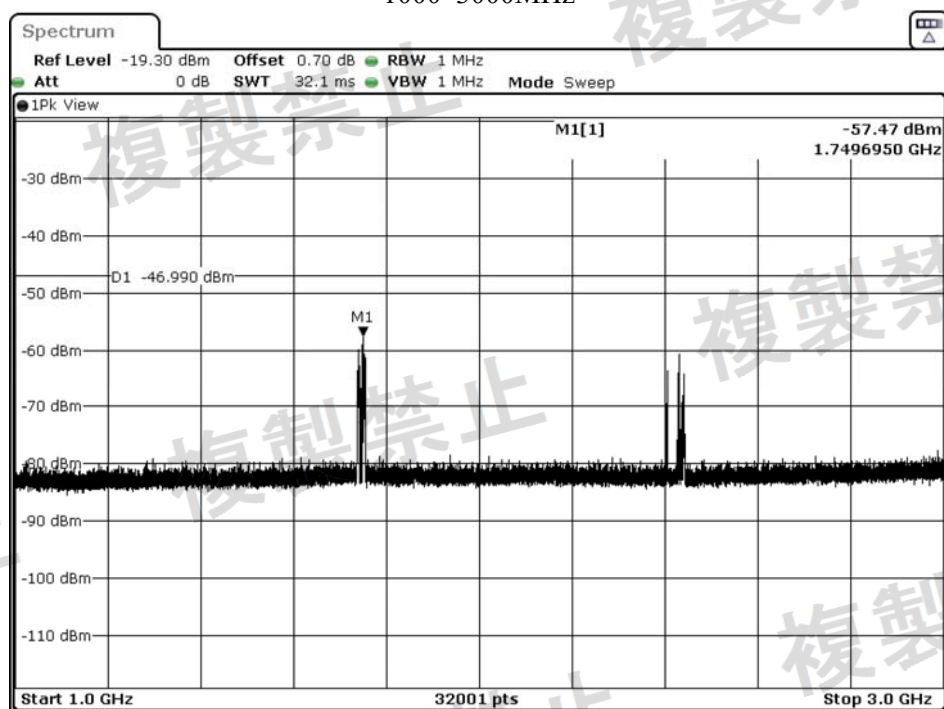
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-84.62	-54 (4nW)
1000 – 3000	-57.47	-47 (20nW)
3000 – 8000	-62.73	-47 (20nW)
8000 – 12750	-76.06	-47 (20nW)

30–1000MHz



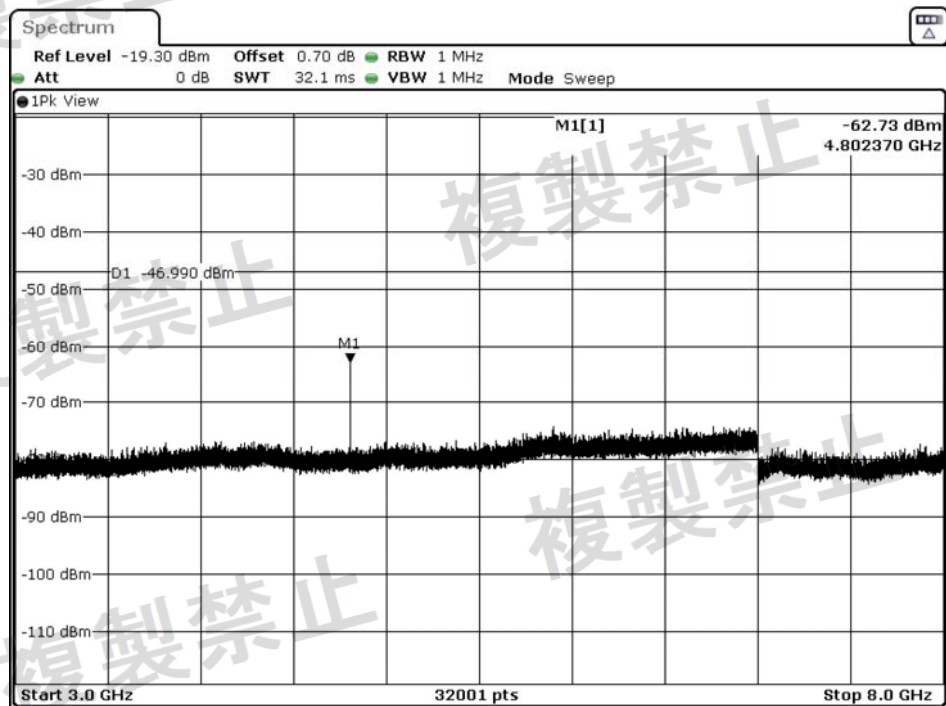
Date: 26.MAY.2020 14:47:34

1000–3000MHz



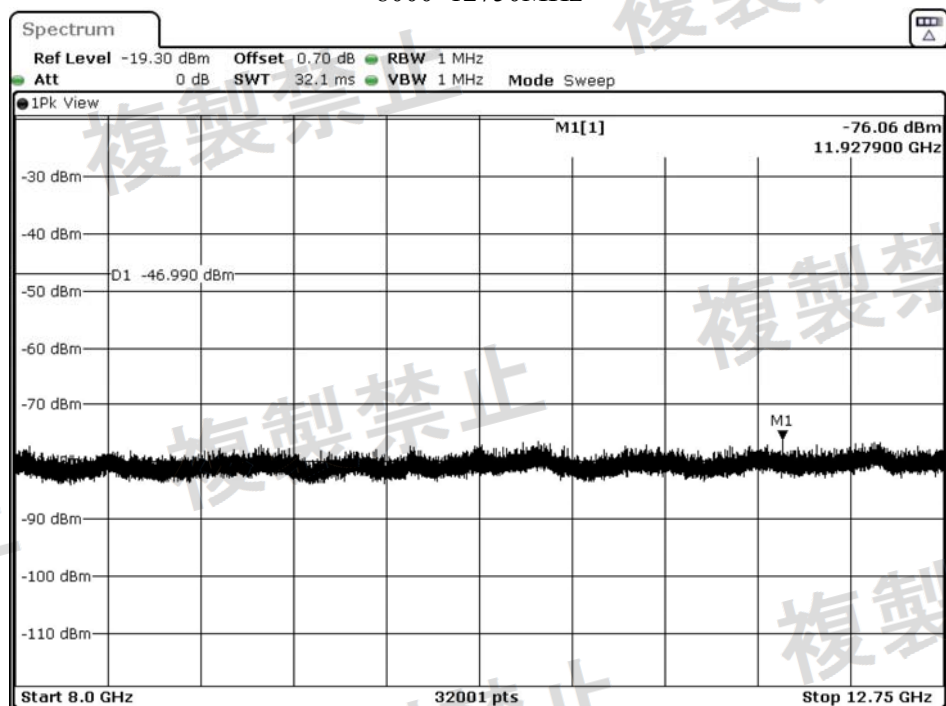
Date: 26.MAY.2020 14:47:56

3000–8000MHz



Date: 26.MAY.2020 14:48:18

8000–12750MHz

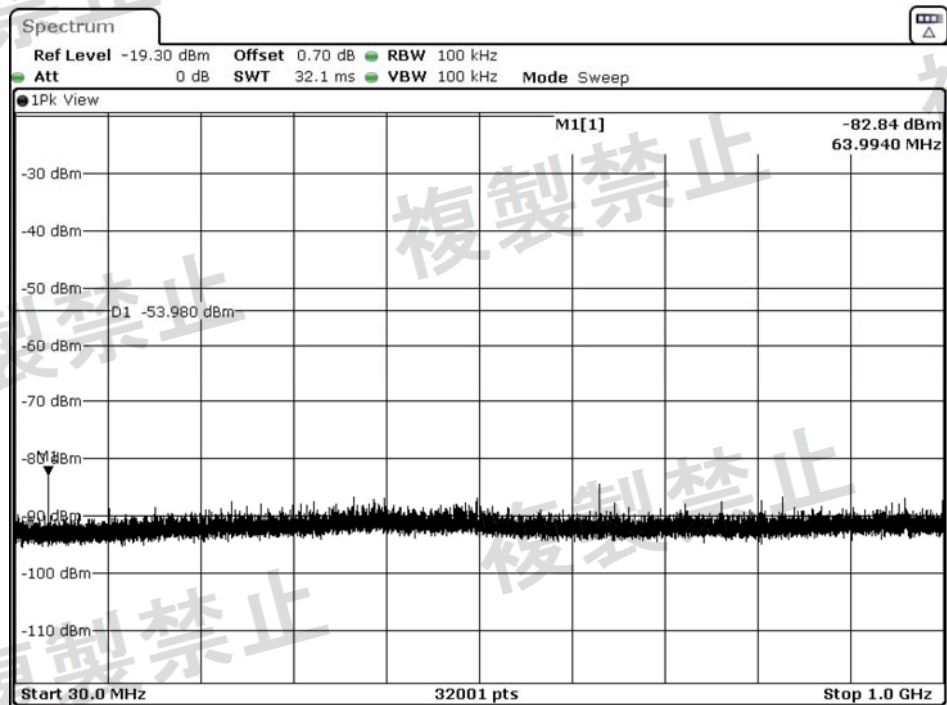


Date: 26.MAY.2020 14:48:40

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receive (2440MHz)

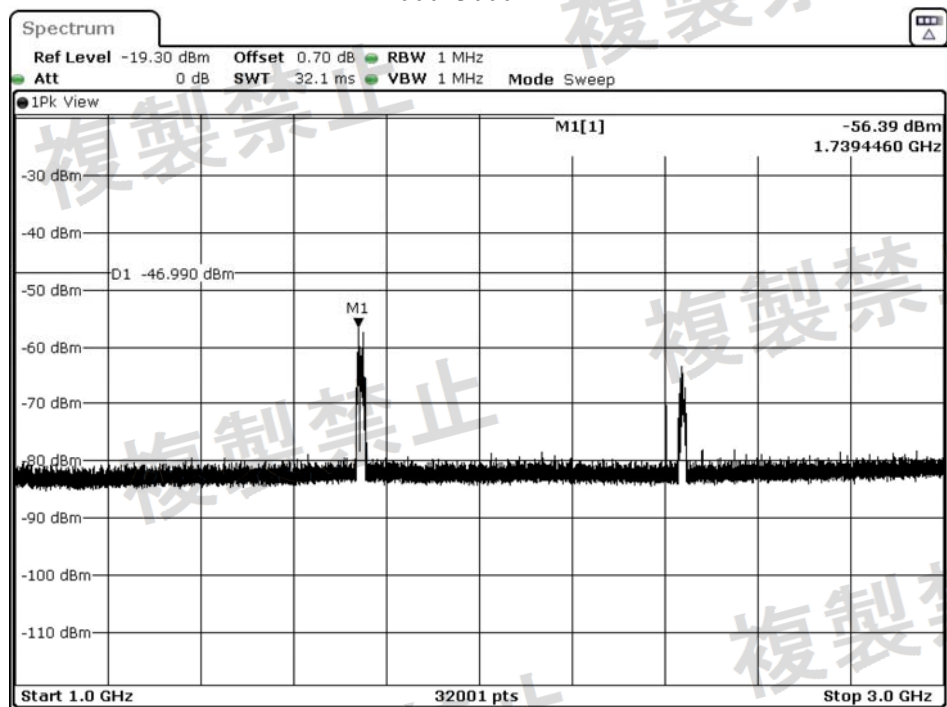
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-82.84	-54 (4nW)
1000 – 3000	-56.39	-47 (20nW)
3000 – 8000	-73.83	-47 (20nW)
8000 – 12750	-75.88	-47 (20nW)

30–1000MHz



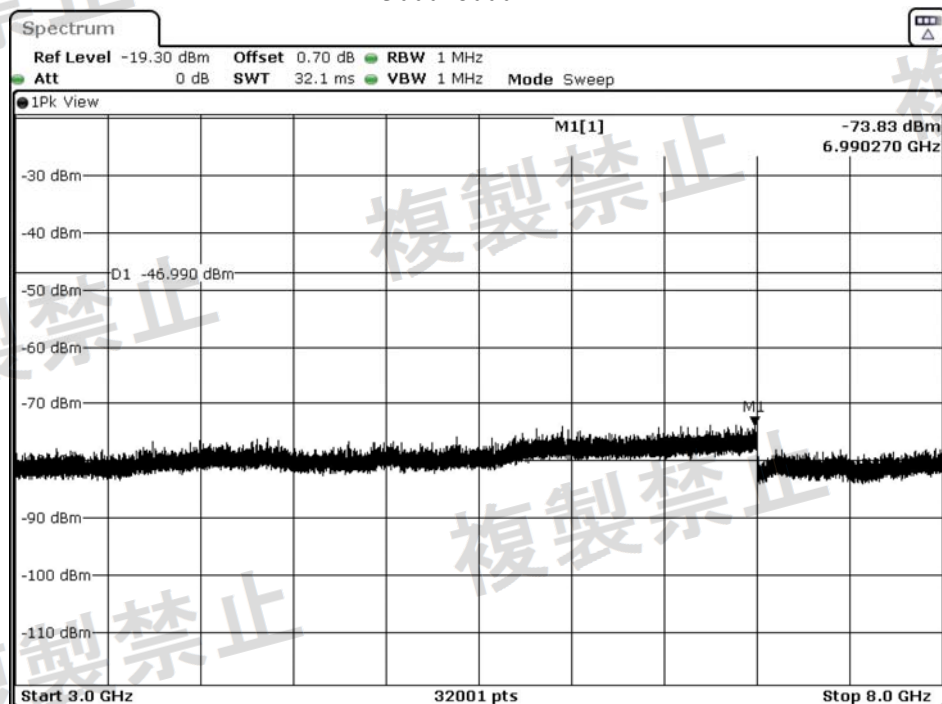
Date: 26.MAY.2020 14:55:44

1000–3000MHz



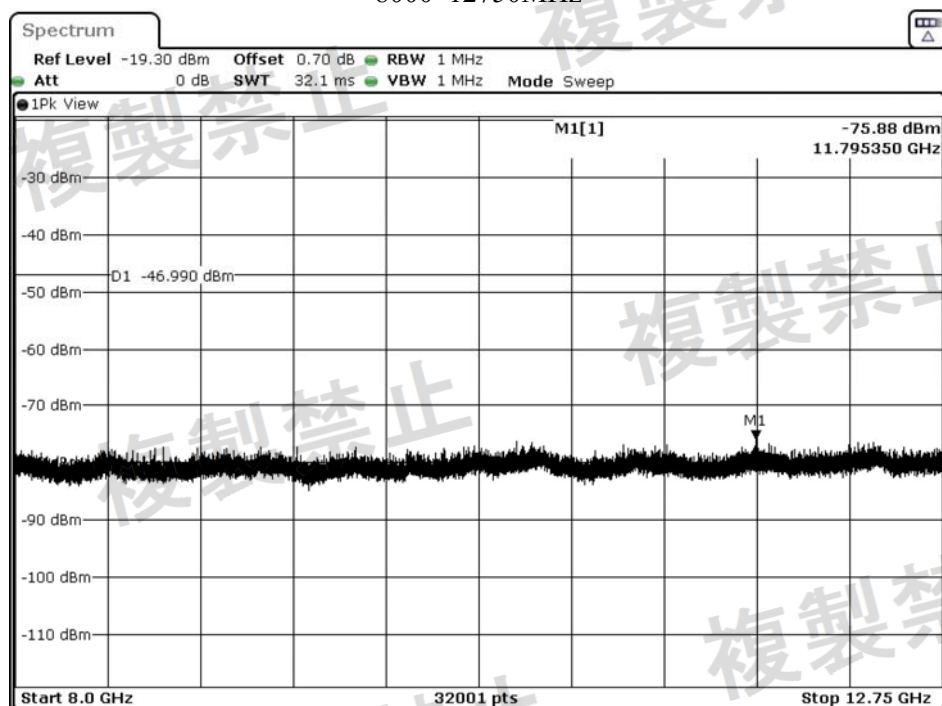
Date: 26.MAY.2020 14:56:07

3000–8000MHz



Date: 26.MAY.2020 14:56:30

8000–12750MHz

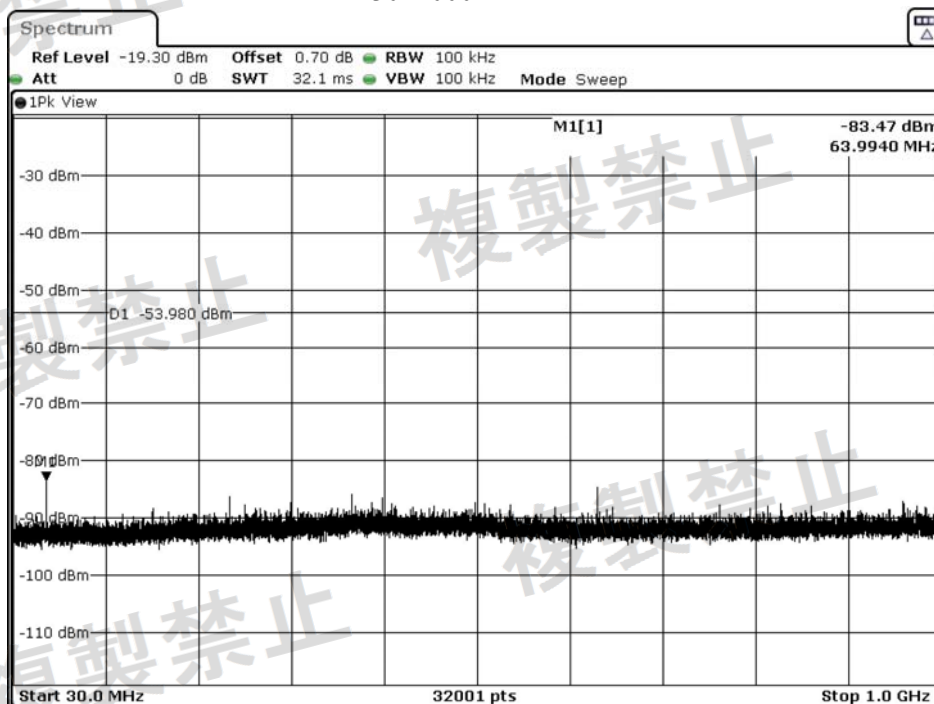


Date: 26.MAY.2020 14:56:53

Product : ASUS VivoWatch SP/ASUS VivoWatch MD/ASUS VivoWatch SP
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receive (2480MHz)

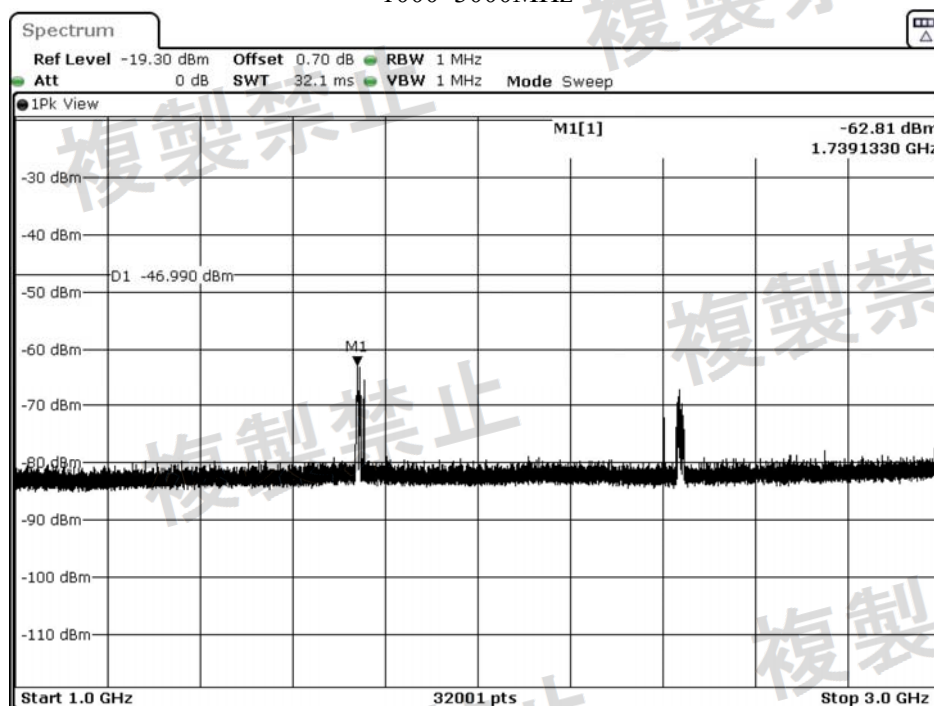
Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
30 – 1000	-83.47	-54 (4nW)
1000 – 3000	-62.81	-47 (20nW)
3000 – 8000	-74.01	-47 (20nW)
8000 – 12750	-76.14	-47 (20nW)

30–1000MHz



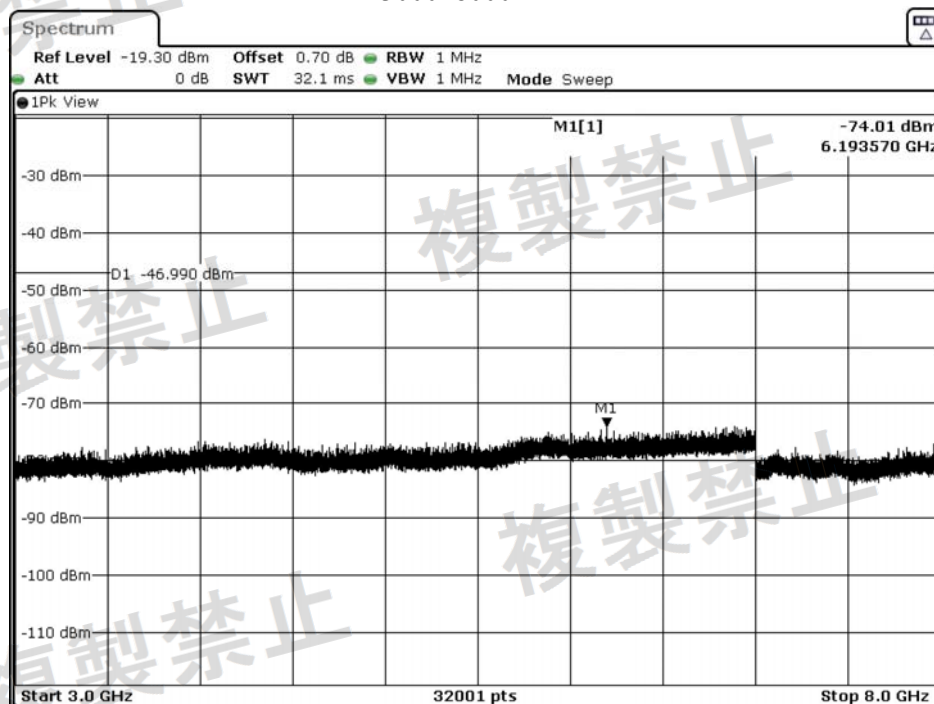
Date: 26.MAY.2020 15:15:31

1000–3000MHz



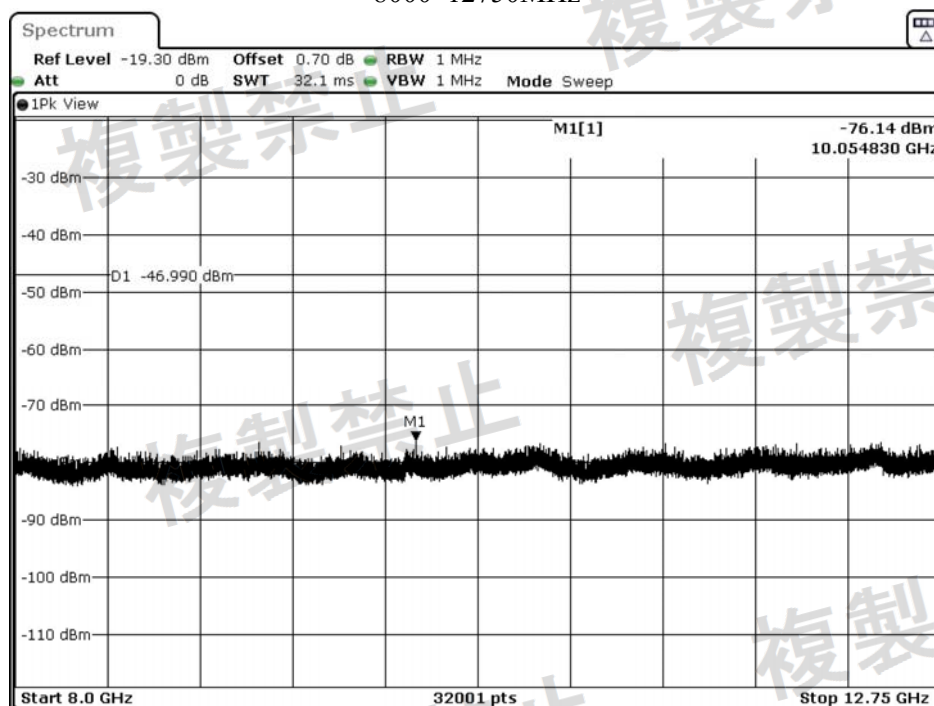
Date: 26.MAY.2020 15:15:54

3000–8000MHz



Date: 26.MAY.2020 15:16:16

8000–12750MHz



Date: 26.MAY.2020 15:16:39

Test Result

PASS

7. EMI Reduction Method During Compliance Testing

No modification was made during testing.