

Prüfbericht-Nr.: Test report no.:	CN2671QA 001	Auftrags-Nr.: Order no.:	27217438	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-01-21	
Auftraggeber: Client:	Belkin International, Inc. 555 S Aviation Blvd. Suite 180 El Segundo, CA 90245, USA			
Prüfgegenstand: Test item:	BoostCharge Pro Power Bank 10K with Motion Sensing Light			
Bezeichnung / Typ-Nr.: Identification / Type no.:	BPD019 (Trademark: belkin)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	Article 2 Paragraph 1 of Item 8 / ARIB STD-T73 Ver. 3.0			
Wareneingangsdatum: Date of sample receipt:	2026-04-01			
Prüfmuster-Nr.: Test sample no.:	A004225720-007 ~ 010			
Prüfzeitraum: Testing period:	2026-04-08 - 2026-04-10			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-04-16	Ausstellungsdatum: Issue date:		2026-04-16
	Signed by: Lin Lin			Signed by: Hardy Suo
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test result of 10.525GHz.

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2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Certificate Number: 5162.01

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)							
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until	Calibration Body	Calibration Method*
Wireless Connectivity Tester	R&S	CMW270	101375	2025-09-23	2026-09-22	CCIC	c
Signal Analyzer	R&S	FSV 40	101441	2025-09-23	2026-09-22	CCIC	c
Vector Signal Generator	R&S	SMBV100A	263301	2025-10-30	2026-10-29	CCIC	c
Signal Generator	R&S	SMB100A	115186	2025-09-23	2026-09-22	CCIC	c
OSP	R&S	OSP 150	101017	2025-10-30	2026-10-29	CCIC	c
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A	N/A	N/A	c
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A	N/A	N/A	c
Power Meter	R&S	NRP2	107105	2025-10-30	2026-10-29	CCIC	c
Wideband Power Sensor	R&S	NRP-Z81	105677	2025-09-23	2026-09-22	CCIC	c
High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	2025-09-23	2026-09-22	CCIC	c
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13	GRGTEST	c
Unwanted Emission Testing (TS8996)							
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until	Calibration Body	Calibration Method*
Signal Generator	R&S	SMB100A	180840	2025-09-22	2026-09-21	GRGTEST	c
Wideband Radio Communication Tester	R&S	CMW500	165339	2025-09-22	2026-09-21	GRGTEST	c
Signal Analyzer	R&S	FSV 40	101440	2025-09-22	2026-09-21	GRGTEST	c
System Controller Interface	R&S	SCI-100	S10010036	N/A	N/A	N/A	c
OSP	R&S	OSP 120	102041	N/A	N/A	N/A	c
OSP	R&S	OSP 150	101385	2025-10-30	2026-10-29	GRGTEST	c
Pre-amplifier	R&S	SCU08F1	08320030	2025-09-22	2026-09-21	GRGTEST	c
Amplifier	R&S	SCU-18F	180079	2025-09-22	2026-09-21	GRGTEST	c
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	2024-10-07	2026-10-06	GRGTEST	c
Double-Ridged Antenna (1 - 18 GHz)	ETS-LINDGREN	3117	00218719	2024-10-07	2026-10-06	GRGTEST	c
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	2024-10-07	2026-10-06	GRGTEST	c

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Biconical Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VUBA 9117	357	2024-10-07	2026-10-06	GRGTEST	c
Double Ridged Broadband Horn Antenna (1 -18 GHz)	Schwarzbeck	BBHA 9120 D	01760	2024-10-07	2026-10-06	GRGTEST	c
Test software	R&S	EMC32 (V10.50.40)	N/A	N/A	N/A	N/A	c
Control PC	Dell	OptiPlex 7050	36NW9P2	N/A	N/A	N/A	c
3m Fully Anechoic Chamber	Albatross	FAC-3m	APC17151-FAC	2024-09-14	2027-09-13	GRGTEST	c

Calibration 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)

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2.3 Uncertainty of Measurement

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 3.68 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 3.68 dB

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3 General Product Information

3.1 Product Function and Intended Use

The product is BoostCharge Pro Power Bank 10K with Motion Sensing Light, which operation frequency range is 10.5GHz to 10.55GHz.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value																																																																								
Kind of Equipment:	BoostCharge Pro Power Bank 10K with Motion Sensing Light																																																																								
Type Designation:	BPD019																																																																								
Trademark:	belkin																																																																								
Operating Voltage:	Input: USB-C/USB-C Cable: 5VDC 3A, 9VDC 3A, 12VDC 2.5A, 15VDC 2A, 20VDC 1.5A (30W Max) Output: USB-C/USB-C Cable: 5VDC 3A, 9VDC 3A, 12VDC 3A, 15VDC 3A, 20VDC 2.25A; PPS: 5-16VDC 2.8A; AVS: 9-15VDC 3A, 15-20VDC 2.25A (45W Max); USB-C/USB-C Cable+LED: 5VDC 3A, 9VDC 3A, 12VDC 3A, 15VDC 2.66A, 20VDC 2A; PPS: 5-16VDC 2.5A; AVS: 9-15VDC 2.66A, 15-20VDC 2A (40W Max); USB-C+USB-C Cable+LED: 20W+20W+1W (41W) Battery: 7.2V, 5000mAh, 36Wh																																																																								
Operating Temperature Range	0°C ~ +35 °C																																																																								
Technical Specification of 10.525GHz																																																																									
Assigned Band:	10.5GHz to 10.55GHz																																																																								
Operation Frequency Range:	10.5035GHz to 10.548GHz																																																																								
Operation Channel:	34CH																																																																								
Channel List:	<table><tr><th>CH</th><th>Frequency (MHz)</th><th>CH</th><th>Frequency (MHz)</th></tr><tr><td>1</td><td>10503.5</td><td>18</td><td>10538.5</td></tr><tr><td>2</td><td>10505.5</td><td>19</td><td>10541.5</td></tr><tr><td>3</td><td>10508.5</td><td>20</td><td>10539.5</td></tr><tr><td>4</td><td>10506.5</td><td>21</td><td>10542</td></tr><tr><td>5</td><td>10509</td><td>22</td><td>10544.5</td></tr><tr><td>6</td><td>10511.5</td><td>23</td><td>10547.5</td></tr><tr><td>7</td><td>10514.5</td><td>24</td><td>10526.5</td></tr><tr><td>8</td><td>10516.5</td><td>25</td><td>10529</td></tr><tr><td>9</td><td>10519.5</td><td>26</td><td>10531</td></tr><tr><td>10</td><td>10521</td><td>27</td><td>10534</td></tr><tr><td>11</td><td>10524</td><td>28</td><td>10532</td></tr><tr><td>12</td><td>10522</td><td>29</td><td>10534.5</td></tr><tr><td>13</td><td>10525</td><td>30</td><td>10536.5</td></tr><tr><td>14</td><td>10527</td><td>31</td><td>10540</td></tr><tr><td>15</td><td>10530</td><td>32</td><td>10543.5</td></tr><tr><td>16</td><td>10534</td><td>33</td><td>10546</td></tr><tr><td>17</td><td>10536.5</td><td>34</td><td>10548</td></tr></table>	CH	Frequency (MHz)	CH	Frequency (MHz)	1	10503.5	18	10538.5	2	10505.5	19	10541.5	3	10508.5	20	10539.5	4	10506.5	21	10542	5	10509	22	10544.5	6	10511.5	23	10547.5	7	10514.5	24	10526.5	8	10516.5	25	10529	9	10519.5	26	10531	10	10521	27	10534	11	10524	28	10532	12	10522	29	10534.5	13	10525	30	10536.5	14	10527	31	10540	15	10530	32	10543.5	16	10534	33	10546	17	10536.5	34	10548
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16	10534	33	10546																																																																						
17	10536.5	34	10548																																																																						
Type of Modulation:	CW																																																																								

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Antenna Type:	Patch antenna
Antenna Gain:	4.2dBi (Provided by the Client)
Rated Antenna Power:	1mW
Test voltage:	DC 3.3V

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: Antenna Gain

Ant. Type	Connector Type	Highest Peak Gain (dBi)
Patch antenna	Soldered on PCB	4.2dBi

3.3 Antenna Pattern

Please refer to the product antenna report.

3.4 Product Housing

The RF circuits are located inside of the EUT. As the RF circuit was sutured by ultrasound, it won't be easy to open. Frequency Band, operation channels and modulation parameters are fixed inside the wireless module. So, they cannot be easily edited or modified by end-user.



3.5 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.6 Submitted Documents

- Application Form
- Rating Label
- User Manual
- Operation Description

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4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6.

According to clause 3.2, all tests were performed on model *BPD019* in this report.

Table 5: Test Conditions

Test conditions	Value
Voltage _{normal}	*3.3V dc
Voltage _{max}	3.63V dc
Voltage _{min}	2.97V dc
Temperature	25 °C
Temperature _{max}	35°C
Temperature _{min}	0°C

*Note: When the input supply voltage to the EUT from the external power source is varied by +/- 10%, the output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%, and the DC power fluctuation at the power input PIN of the RF chip is equal to or less than +/-1%. So, exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
DC power Supply	KIKUSUI	PAN35-5A	YM002997

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

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5 Test Results

5.1 Antenna Requirement

5.1.1 Limit of Antenna

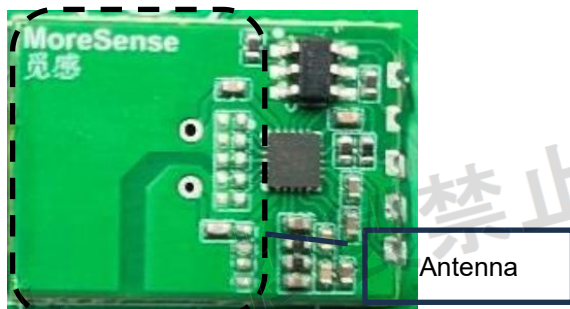
(1) Antenna structures

- There is no specific provision for the antenna structure.

(2) Gain of the antenna

- The absolute gain of the transmitting antenna shall be 24dB or less.
- In case, the equivalent isotropically radiated power (e.i.r.p.) is not more than the value that induces 13dBm (0.02W) of antenna power into the antenna with absolute gain 24dB, the difference could be compensated by the gain of the antenna. (refer to Antenna power).

5.1.2 Test Results



- The Max antenna gain is 4.2dBi.

Result

PASS

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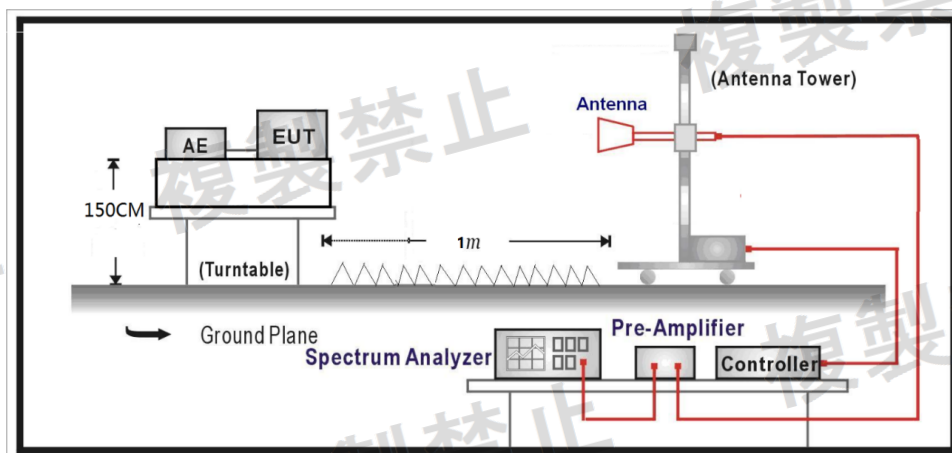
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5.2 Operating Frequency and Tolerance of Frequency

5.2.1 Limits of Operating Frequency and Tolerance of Frequency

Item	Limit
Operating Frequency and Tolerance of Frequency	Within 10.5GHz to 10.55GHz

5.2.2 Test Setup



5.2.3 Test Procedure

- Test Conditions
Spectrum Analyzer is used for measurement.
- EUT Conditions
The EUT is operated in continuous transmission mode. The centre frequency of the spectrum analyser is set to the fundamental frequency.
- Spectrum Analyzer conditions
Frequency: Test Frequency
RBW=1%*99%OBW
VBW=RBW
Span=2~3.5 * 40MHz
Sweep Time=Auto
Sweep Point≥400
Detector mode=Positive peak
Indication mode=Max hold
- Repeat at normal and extreme conditions respectively.

5.2.4 Test Results

Result **PASS**

For the measurement records, refer to appendix A.

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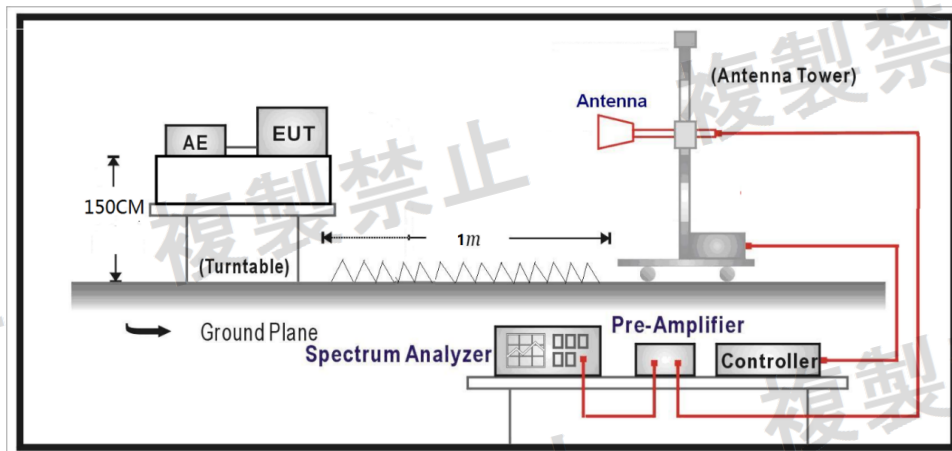
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5.3 Occupied Frequency Bandwidth (99%OBW)

5.3.1 Limits of Occupied Frequency Bandwidth (99%OBW)

Item	Limit
Occupied Frequency Bandwidth	≤40MHz

5.3.2 Test Setup



5.3.3 Test Procedure

- Test Conditions
Spectrum Analyzer is used for measurement.
- EUT Conditions
The EUT is operated in continuous transmission mode. The centre frequency of the spectrum analyser is set to the fundamental frequency.
- Spectrum Analyzer conditions
Frequency: Test Frequency
RBW=1%*99%OBW
VBW=RBW
Span=2~3.5 * 40MHz
Sweep Time=Auto
Sweep Point≥400
Detector mode=Positive peak
Indication mode=Max hold

5.3.4 Test Results

Result **PASS**

For the measurement records, refer to appendix A.

Prüfbericht - Nr.: **CN2671QA 001**
Test Report No.:

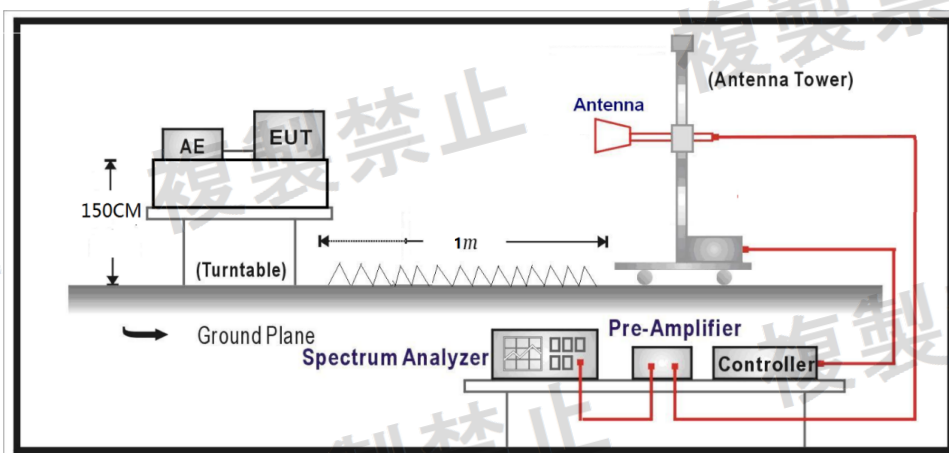
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5.4 The permissible values for the strength of spurious emissions or unwanted emissions (Tx)

5.4.1 Limits of Spurious Emissions of Tx

Frequencies	Limit
Below 1GHz	$\leq 2.5\mu\text{W}$
1GHz to 26GHz	$\leq 2.5\mu\text{W}$

5.4.2 Test Setup



5.4.3 Test Procedure

- Test Conditions
Spectrum Analyzer is used for measurement.
- EUT conditions
The EUT is operated in continuous transmission mode. The centre frequency of the spectrum analyser is set to the fundamental frequency.
- Spectrum Analyzer conditions
Step 1
All spurious are measured from 30MHz to 40GHz by peak mode.
Step 2
IF the value measured by Step1 is 3dB or less, measure in average mode.
Spectrum Analyzer conditions:
Frequency range: 30MHz-40GHz, RBW=1MHz, VBW=3MHz
Sweep Time: Auto
Detector mode: Positive peak
Indication mode: Max hold

5.4.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN2671QA 001**
Test Report No.:

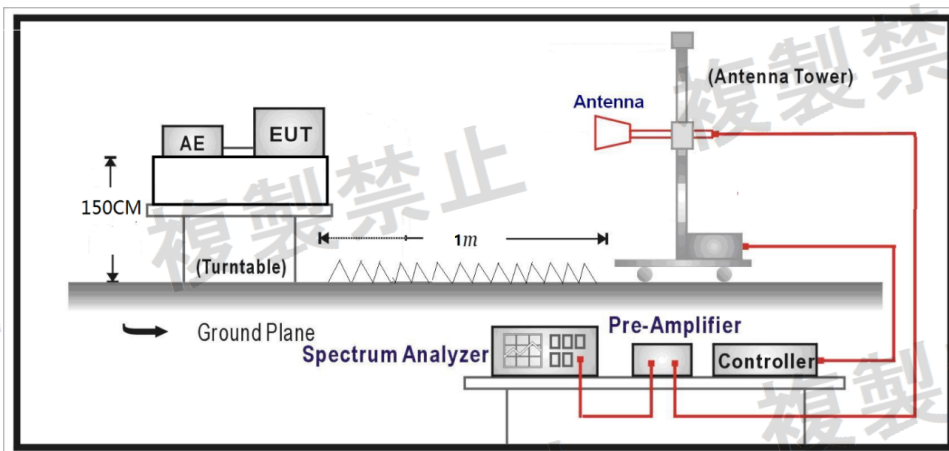
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5.5 Limit on Secondary Radiated Emissions (Rx)

5.5.1 Limits of Spurious Emissions of Rx

Frequencies	Limit
Below 1GHz	$\leq 2.5\mu\text{W}$
1GHz to 26GHz	$\leq 2.5\mu\text{W}$

5.5.2 Test Setup



5.5.3 Test Procedure

- Test Conditions
Spectrum Analyzer is used for measurement.
- EUT conditions
The EUT is operated in continuous receiving mode. The centre frequency of the spectrum analyser is set to the fundamental frequency.
- Spectrum Analyzer conditions
Step 1
All spurious are measured from 30MHz to 40GHz by peak mode.
Step 2
If the value measured by Step1 is 2 dB or less, measure in average mode.
Spectrum Analyzer conditions:
Frequency range:30MHz-40GHz, RBW=1MHz, VBW=3MHz
Sweep Time: Auto
Detector mode: Positive peak
Indication mode: Max hold

5.5.4 Test Results

*N/A

*Note: The Spurious Emissions of Rx are emissions at any frequency when the equipment is in receive mode. Consequently, Spurious Emissions of Rx testing applies only when the equipment can work in a receive-only mode or is a receive only device. In cases where receivers are used in combination with permanently co-located transmitters the receivers will be tested together with the transmitter in operating mode as part of the Spurious Emissions of Tx.

Prüfbericht - Nr.: CN2671QA 001
Test Report No.:

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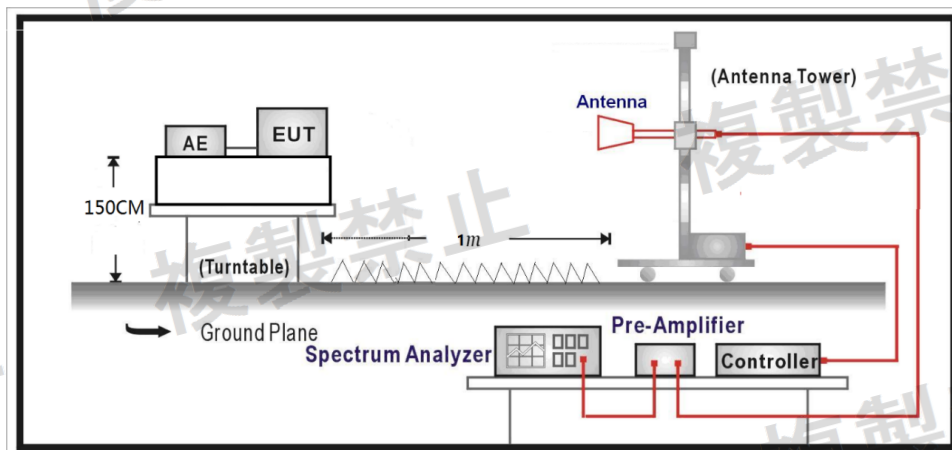
5.6 Antenna Power and Tolerance of Antenna Power

5.6.1 Limits of Antenna Power and Tolerance of Antenna Power

The antenna power shall be 0.02 W or less.

The antenna power shall be +50% in the upper limit and -50% in the lower limit.

5.6.2 Test Setup



5.6.3 Test Procedure

- Test Conditions

Spectrum Analyzer is used for measurement.

- EUT conditions

The EUT is operated in continuous transmission mode. The centre frequency of the spectrum analyser is set to the fundamental frequency.

- Spectrum Analyzer conditions:

Step 1. Search for peak power frequency

Frequency: Test Frequency

Span: $\geq$ Twice the occupied bandwidth;

RBW :1MHz

VBW :3MHz

Sweep Time: Auto

Detector mode: Positive peak

Indication mode: Max hold

Step 2. Measurement of average antenna power

Center frequency: Frequency of peak power found using

Span: 0Hz

RBW: 1MHz

VBW :3MHz

Detector mode: Sample

Sweep time: Minimum time required to make an accurate measurement.

For burst type (intermittent) transmission, sweep time shall be greater than one burst interval.

Sweep data points: 1001 or greater.

5.6.4 Test Results

Result PASS

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN2671QA 001**
Test Report No.:

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5.7 Interference Prevention Function

1) Measurement system diagram



2) Test Procedures

- Set the EUT in the usual operation condition.
- The radio equipment with automatic transmitting function of identification code.
 - Transmit the assigned identification code from the radio equipment.
 - Confirm the identification code received by the demodulator.
- The radio equipment with automatic receiving function of identification code
 - Transmit the assigned identification code from the opposite equipment.
 - Confirm that the usual communication is available.
 - Transmit the identification code distinct from the assigned one from the opposite equipment.
 - Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
- The identification function shall be recorded with "Good" or "No".

Items	Test Record
Transmitting/Receiving of Identification Code	The device has the function of automatic transmission or reception of identification code.

Result

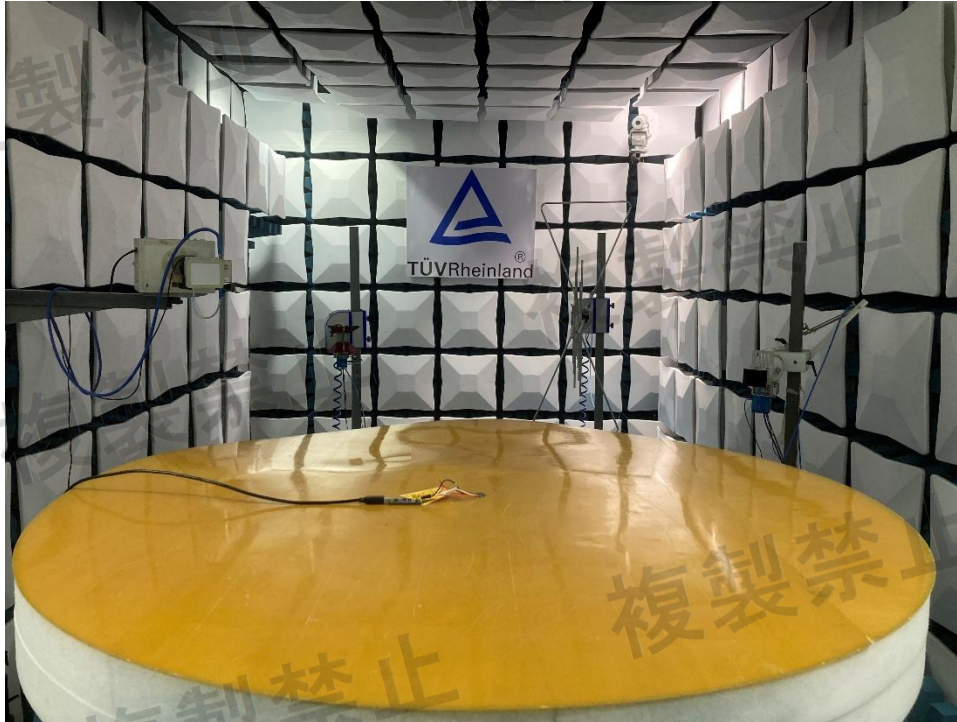
PASS

Prüfbericht - Nr.: CN2671QA 001
Test Report No.:

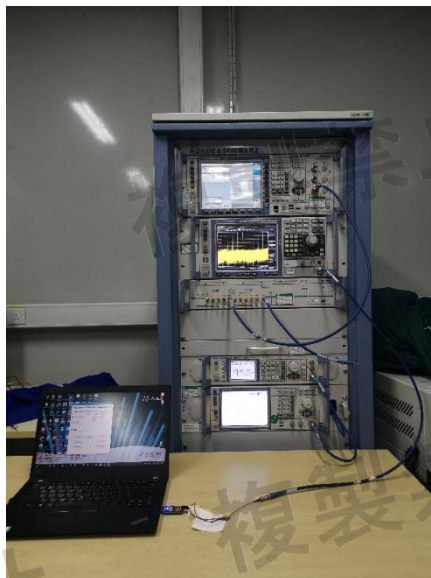
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6 Photographs of the Test Set-Up

Photograph 1: Set-up for Radio Spectrum Spurious Testing



Photograph 2: Set-up for Radio Spectrum Testing, Normal and Extreme Condition



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Test Report No.:

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Appendix A: Test Results of 10.525GHz

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Appendix A.1: Test Results of Occupied Frequency Bandwidth (99%OBW) and Tolerance of Frequency

Test Results, 10.5035GHz

Temperature	Center Frequency (GHz)	Occupied Frequency Bandwidth (MHz)	Occupied Frequency Bandwidth Limit (MHz)	Tolerance of Frequency	Tolerance of Frequency Limit (GHz)	Verdict
+80°C	10.5035	0.232	≤40MHz	The Lower Frequency (T1) and Upper Frequency (T2) are within the frequency band 10.5GHz to 10.55GHz (detail test data refer to following test graphs)	10.5 ~ 10.55	Pass
+70°C		0.232				Pass
+60°C		0.232				Pass
+50°C		0.232				Pass
+40°C		0.232				Pass
+25°C		0.232				Pass
0°C		0.232				Pass
-10°C		0.232				Pass
-20°C		0.232				Pass
-30°C		0.232				Pass
-40°C		0.232				Pass

Test Results, 10.5385GHz

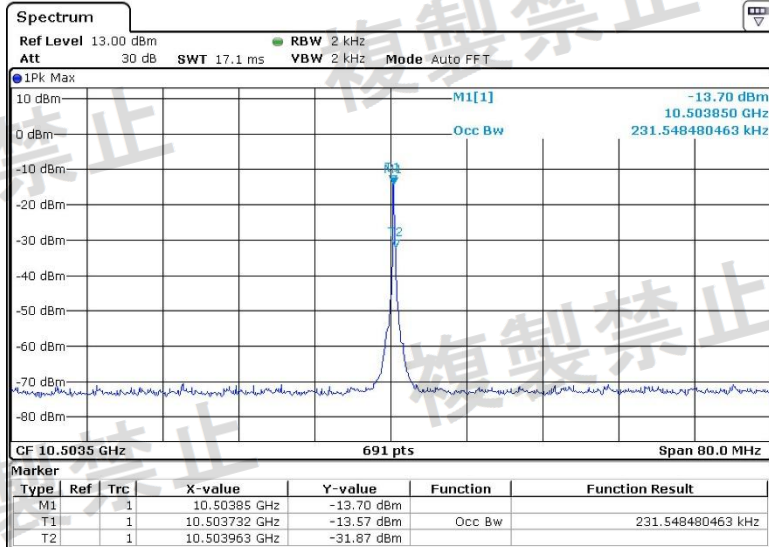
Temperature	Center Frequency (GHz)	Occupied Frequency Bandwidth (MHz)	Occupied Frequency Bandwidth Limit (MHz)	Tolerance of Frequency	Tolerance of Frequency Limit (GHz)	Verdict
+80°C	10.5385	0.232	≤40MHz	The Lower Frequency (T1) and Upper Frequency (T2) are within the frequency band 10.5GHz to 10.55GHz (detail test data refer to following test graphs)	10.5 ~ 10.55	Pass
+70°C		0.232				Pass
+60°C		0.232				Pass
+50°C		0.232				Pass
+40°C		0.232				Pass
+25°C		0.232				Pass
0°C		0.232				Pass
-10°C		0.232				Pass
-20°C		0.232				Pass
-30°C		0.232				Pass
-40°C		0.232				Pass

Test Results, 10.548GHz

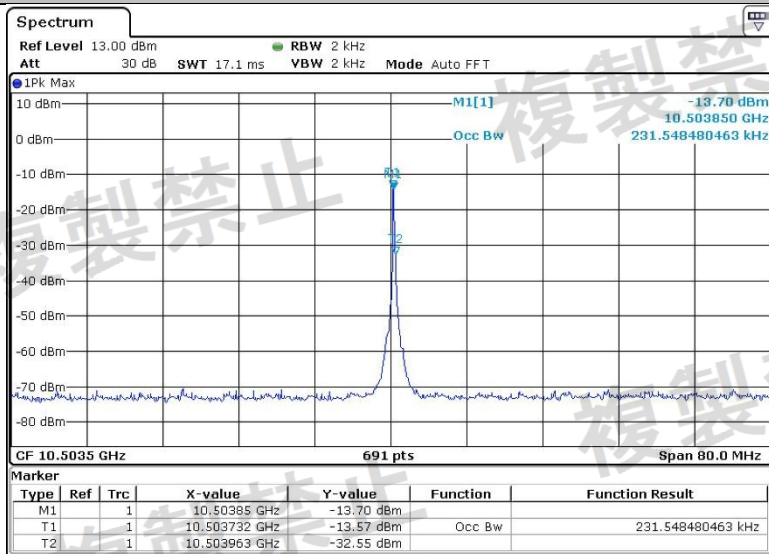
Temperature	Center Frequency (GHz)	Occupied Frequency Bandwidth (MHz)	Occupied Frequency Bandwidth Limit (MHz)	Tolerance of Frequency	Tolerance of Frequency Limit (GHz)	Verdict
+80°C	10.548	0.232	≤40MHz	The Lower Frequency (T1) and Upper Frequency (T2) are within the frequency band 10.5GHz to 10.55GHz (detail test data refer to following test graphs)	10.5 ~ 10.55	Pass
+70°C		0.232				Pass
+60°C		0.232				Pass
+50°C		0.232				Pass
+40°C		0.232				Pass
+25°C		0.232				Pass
0°C		0.232				Pass
-10°C		0.232				Pass
-20°C		0.232				Pass
-30°C		0.232				Pass
-40°C		0.232				Pass

Test Graphs, 10.5035GHz

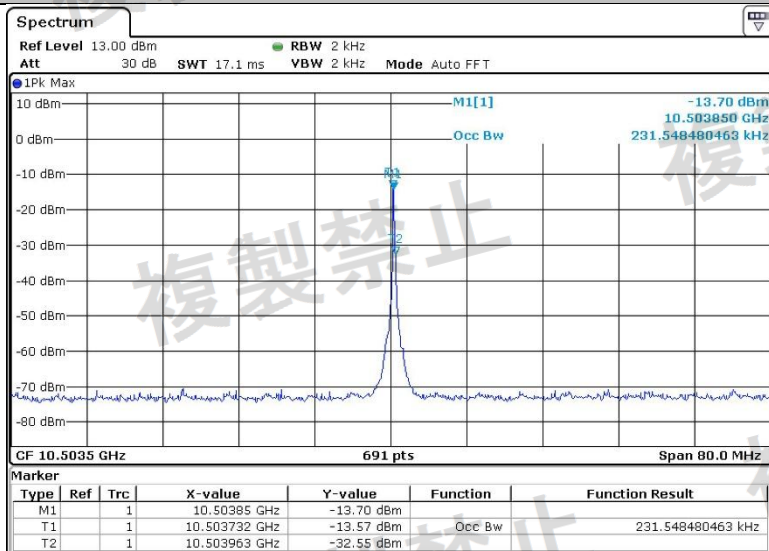
Low/High Temperature Mode Condition:



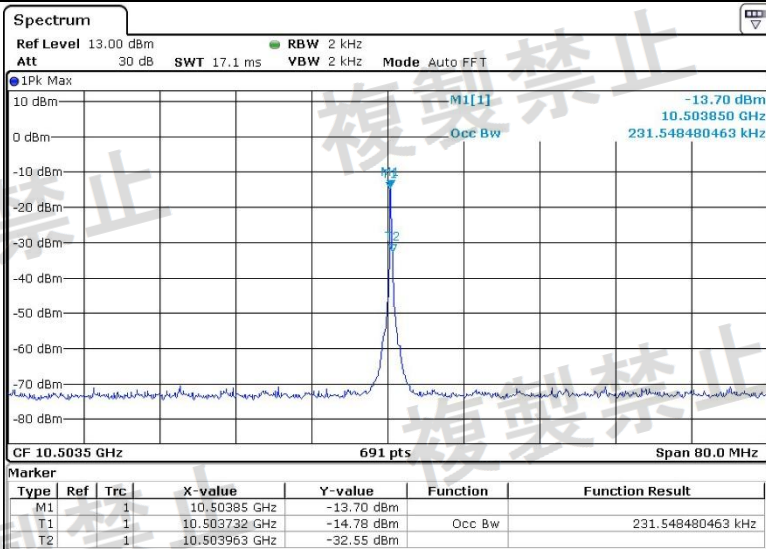
+80°C



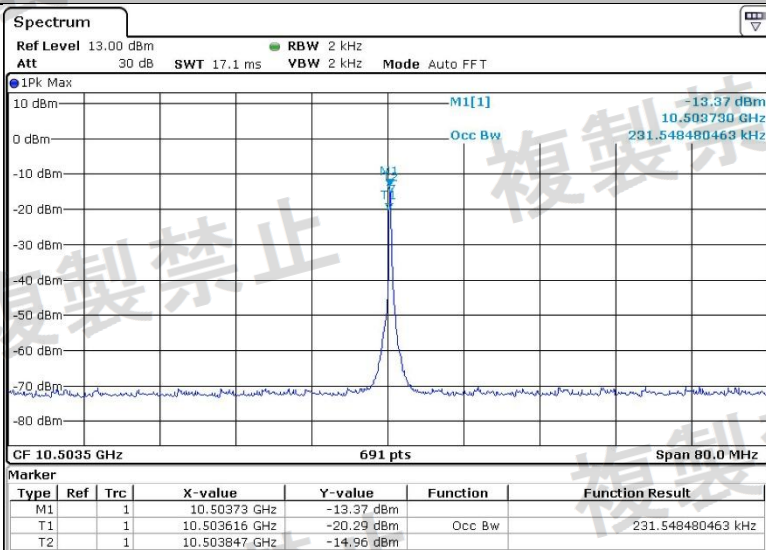
+70°C



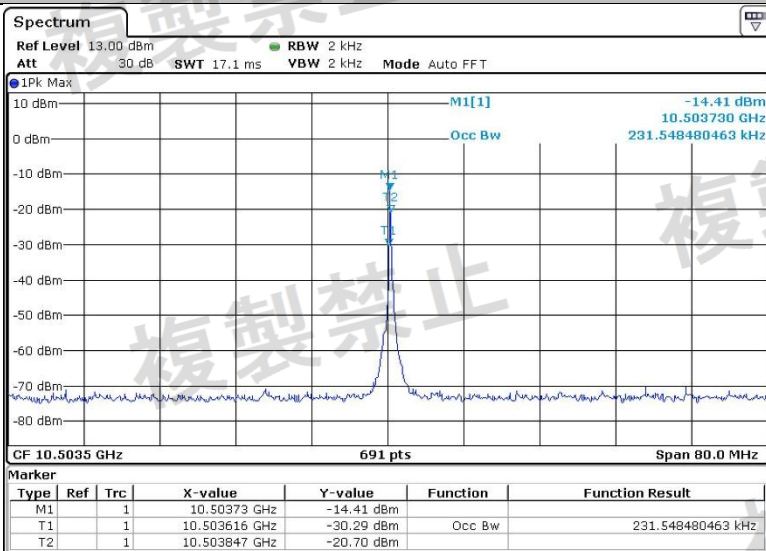
+60°C



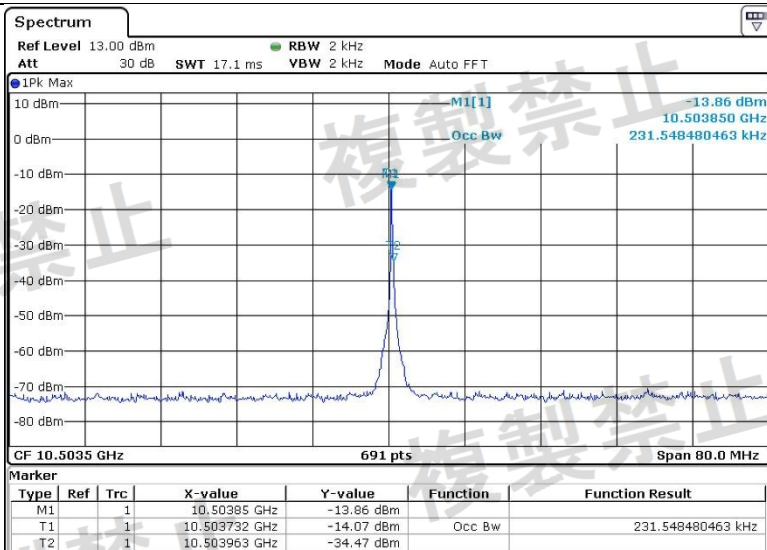
+50°C



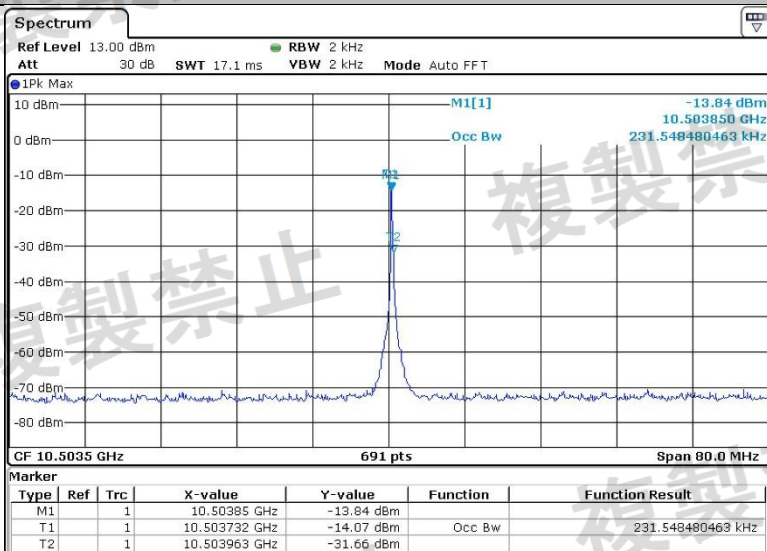
+40°C



+25°C



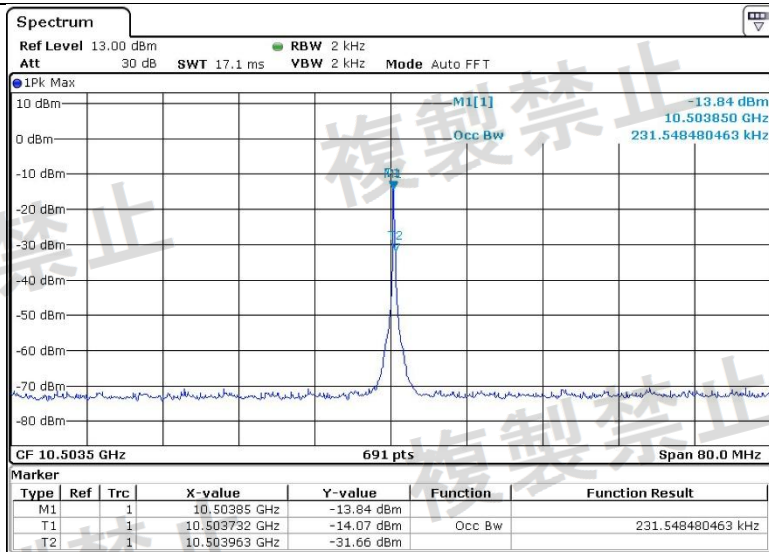
0°C



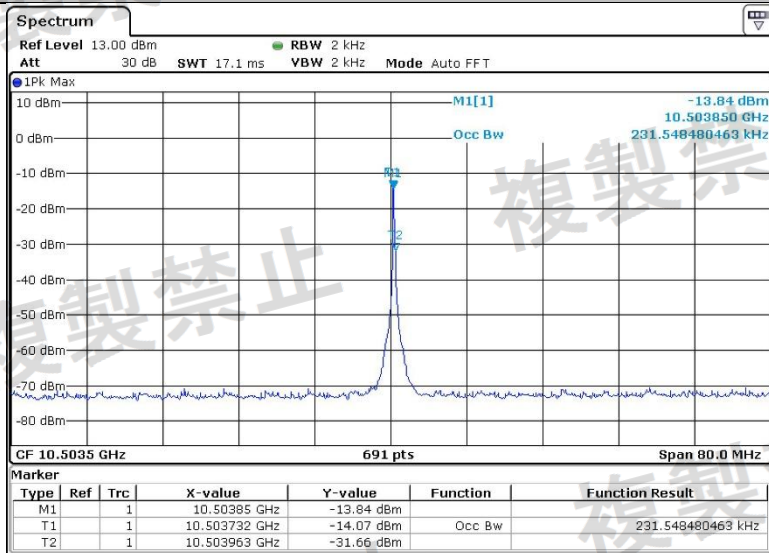
-10°C



-20°C



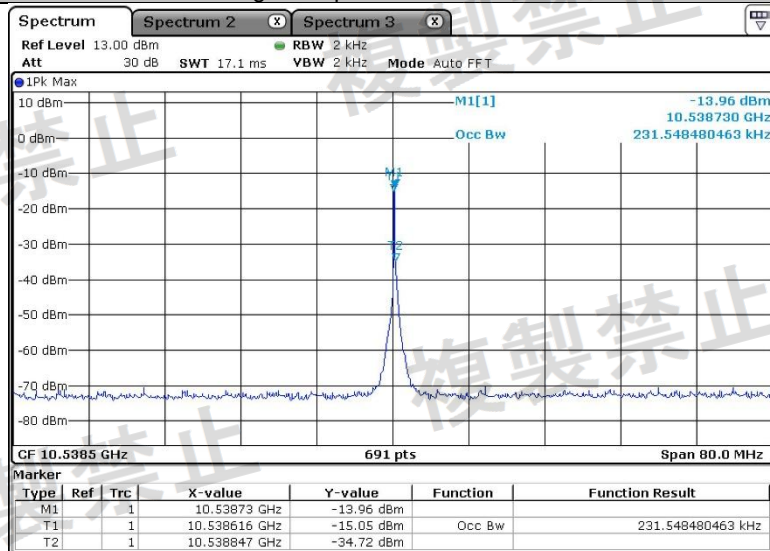
-30°C



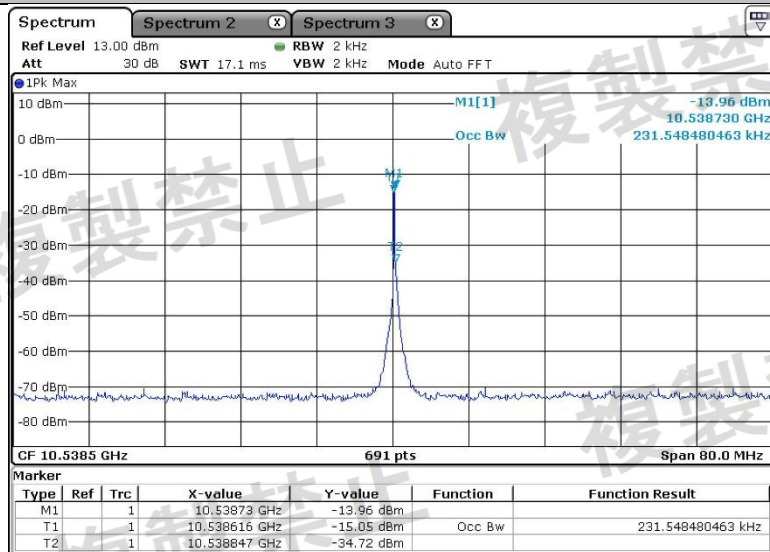
-40°C

Test Graphs, 10.5385GHz

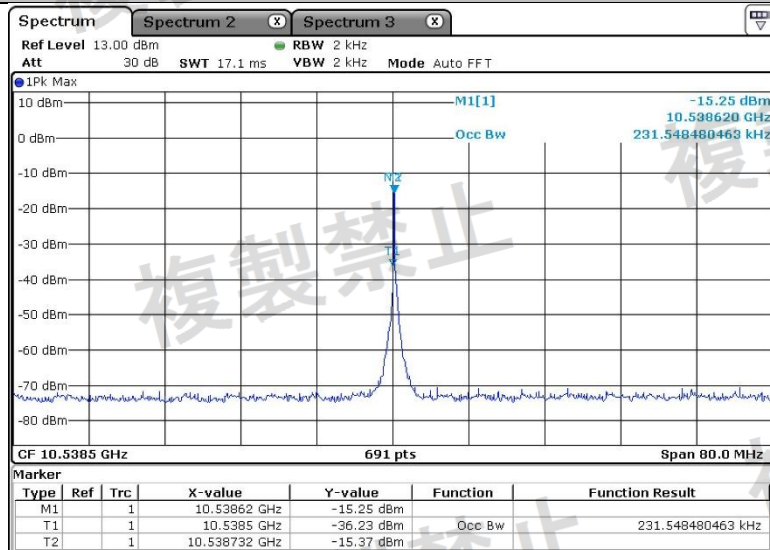
Low/High Temperature Mode Condition:

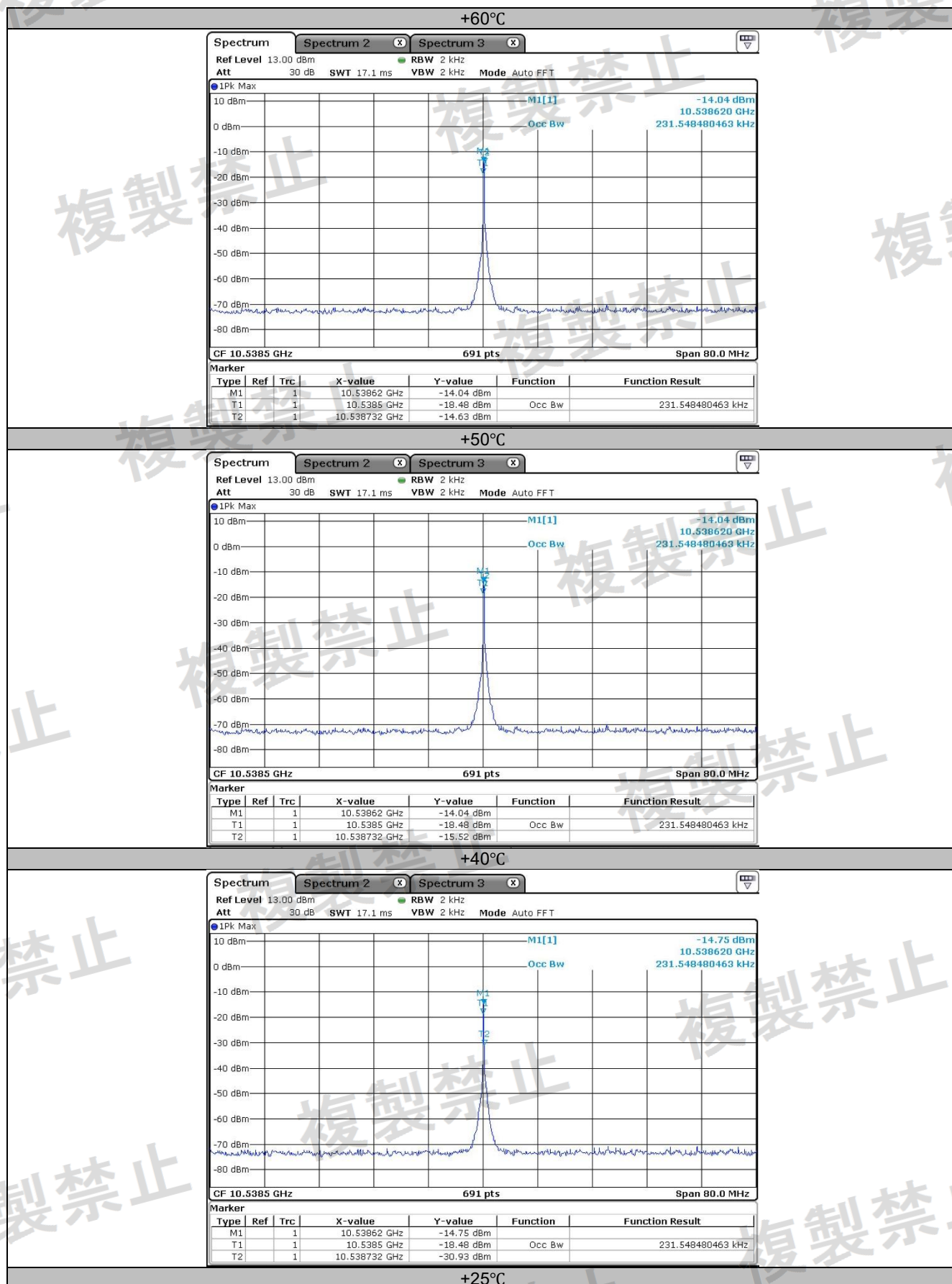


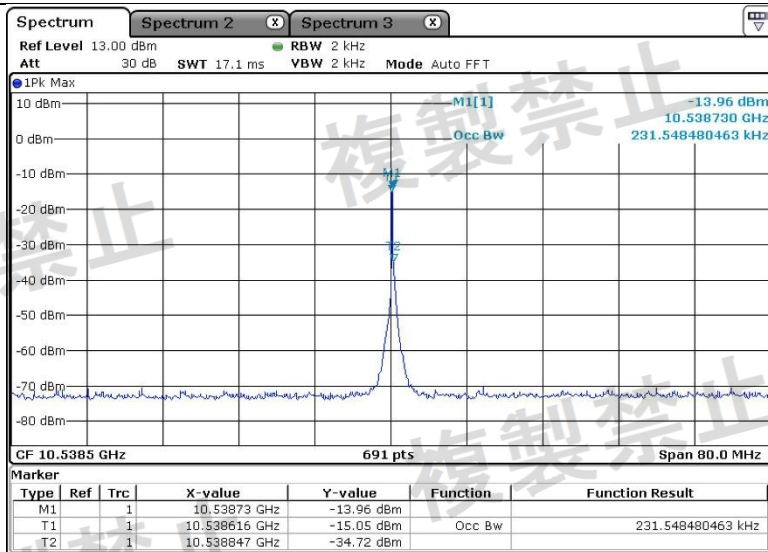
+80°C



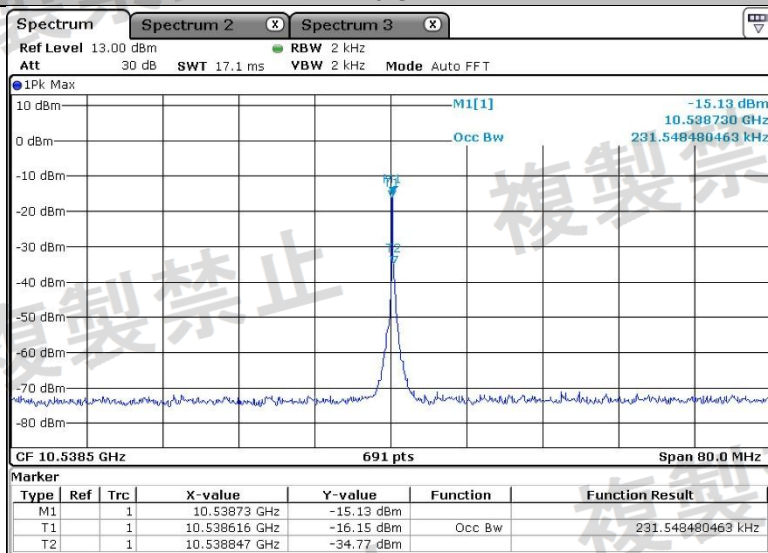
+70°C



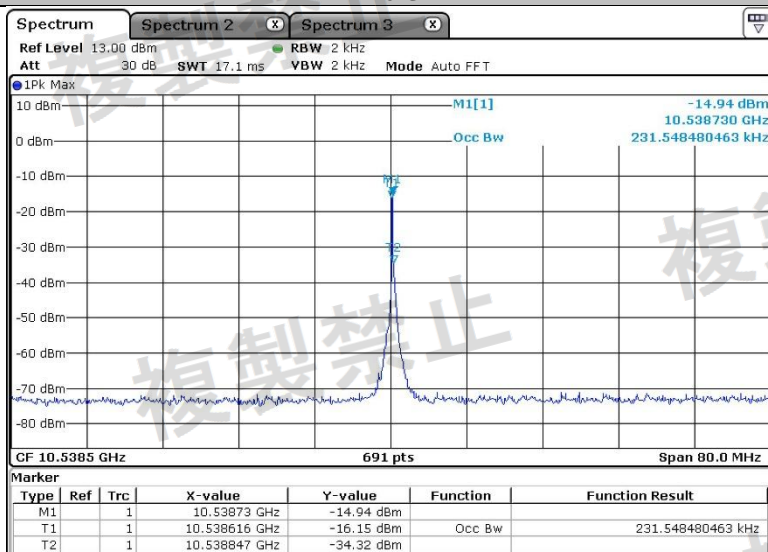




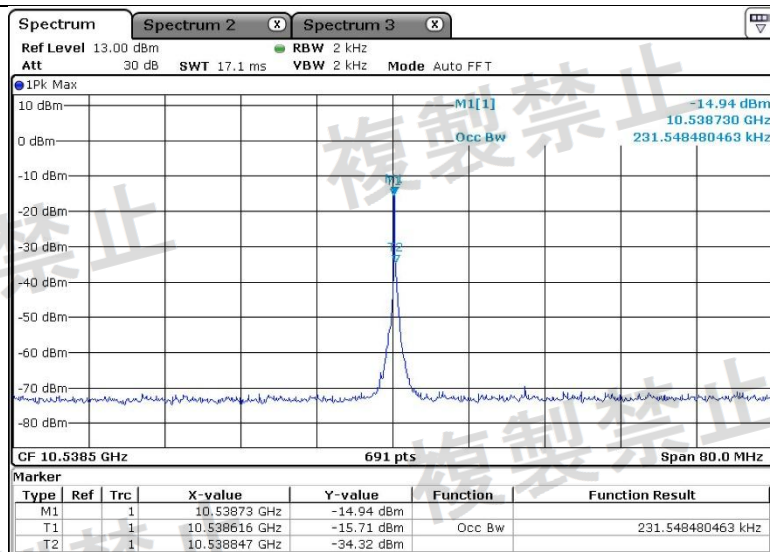
0°C



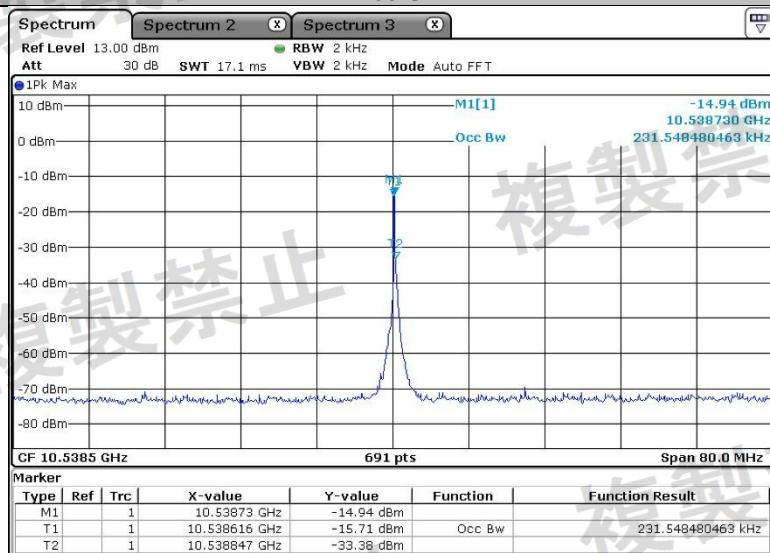
-10°C



-20°C



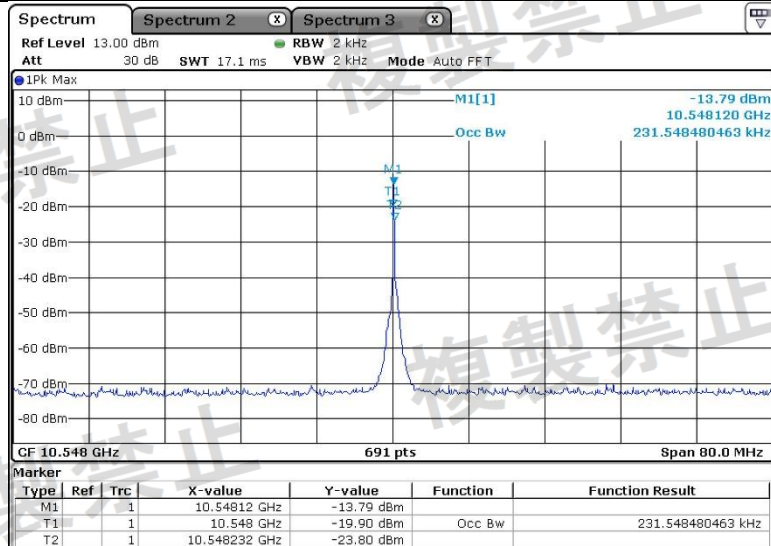
-30°C



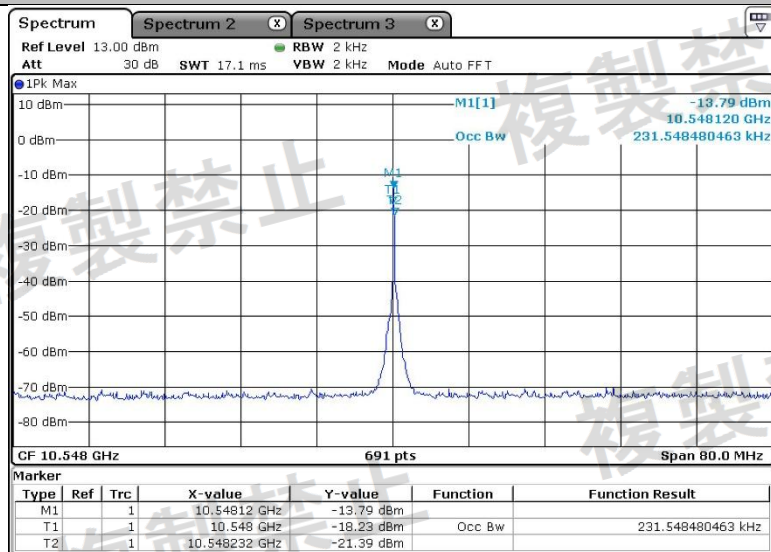
-40°C

Test Graphs, 10.548GHz

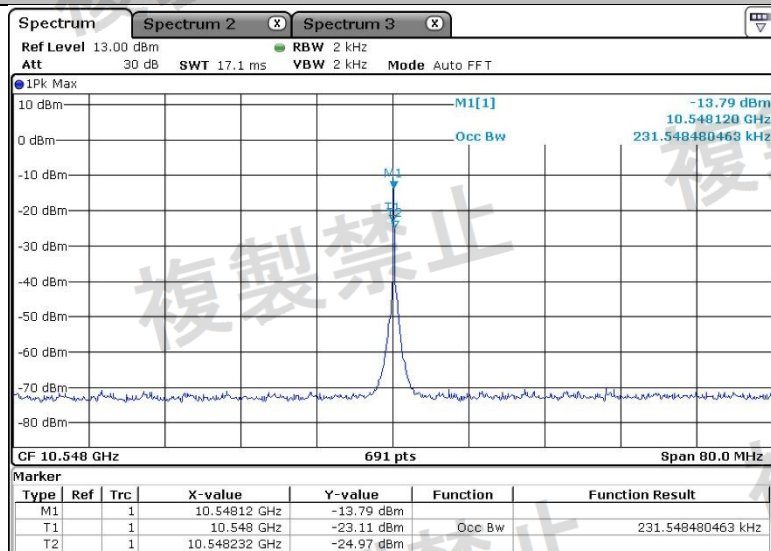
Low/High Temperature Mode Condition:

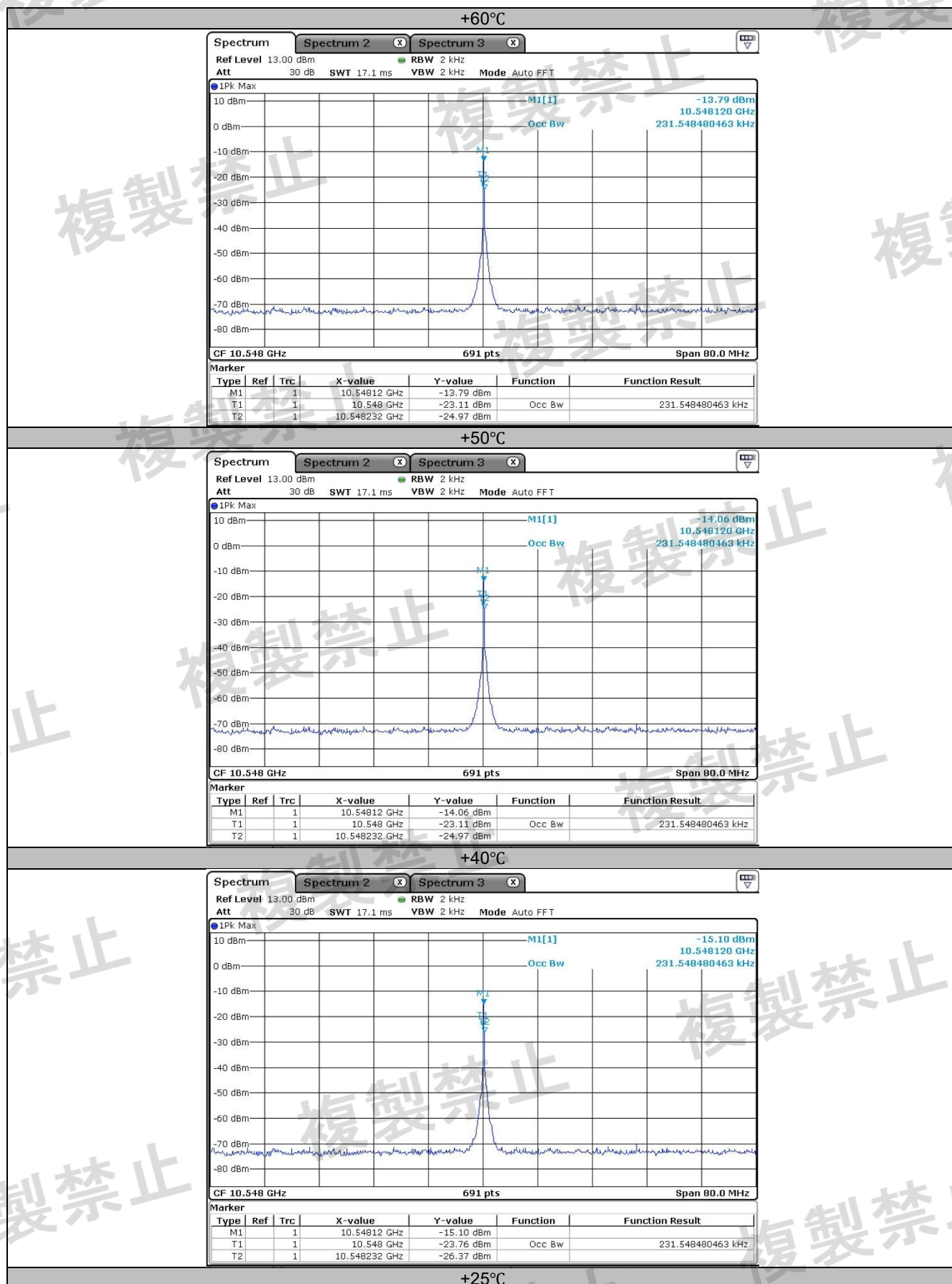


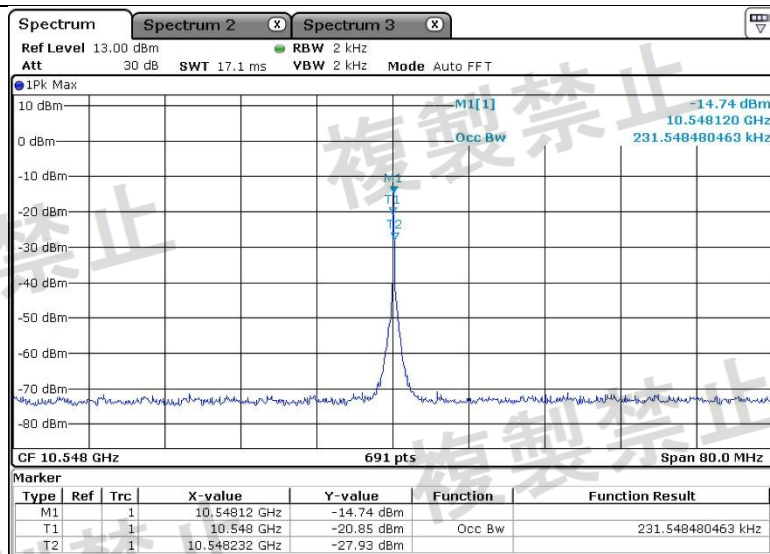
+80°C



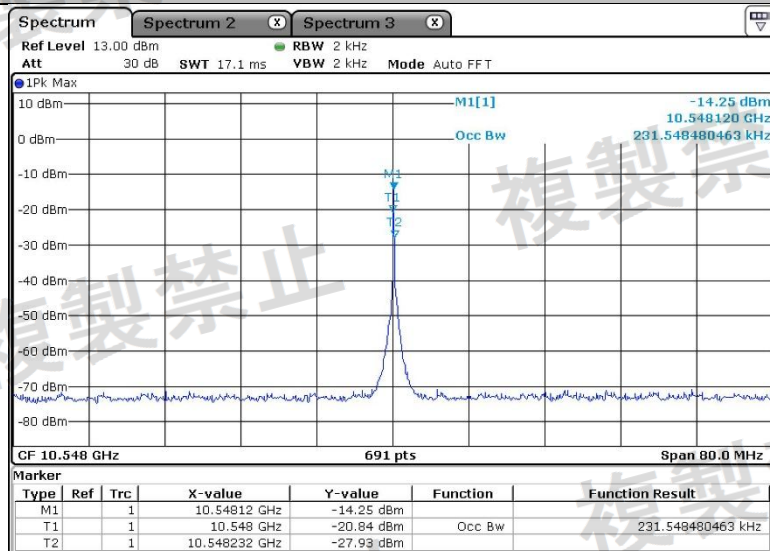
+70°C



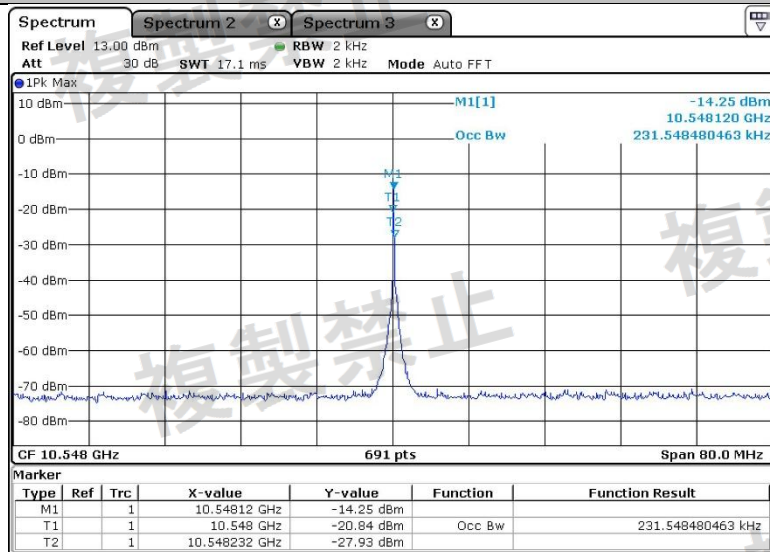




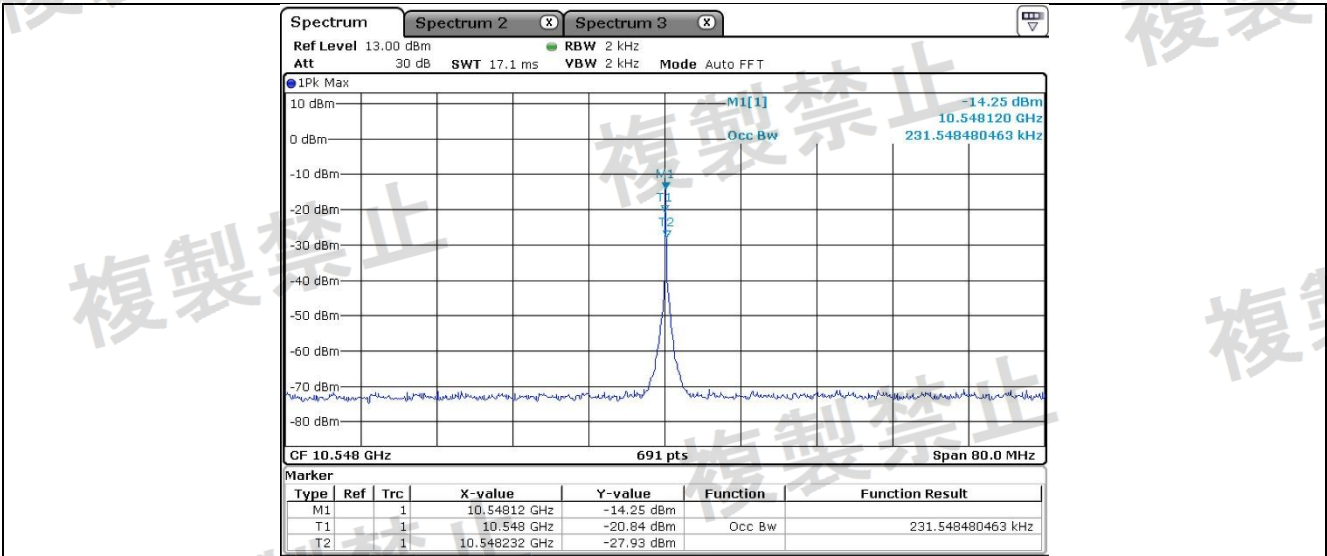
0°C



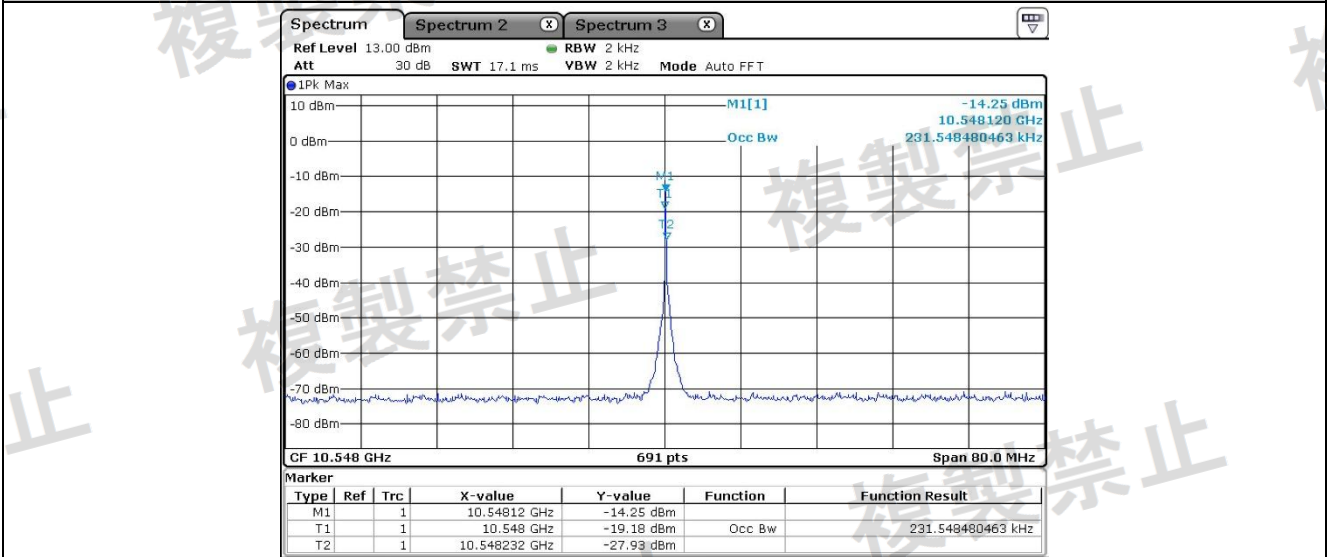
-10°C



-20°C



-30°C

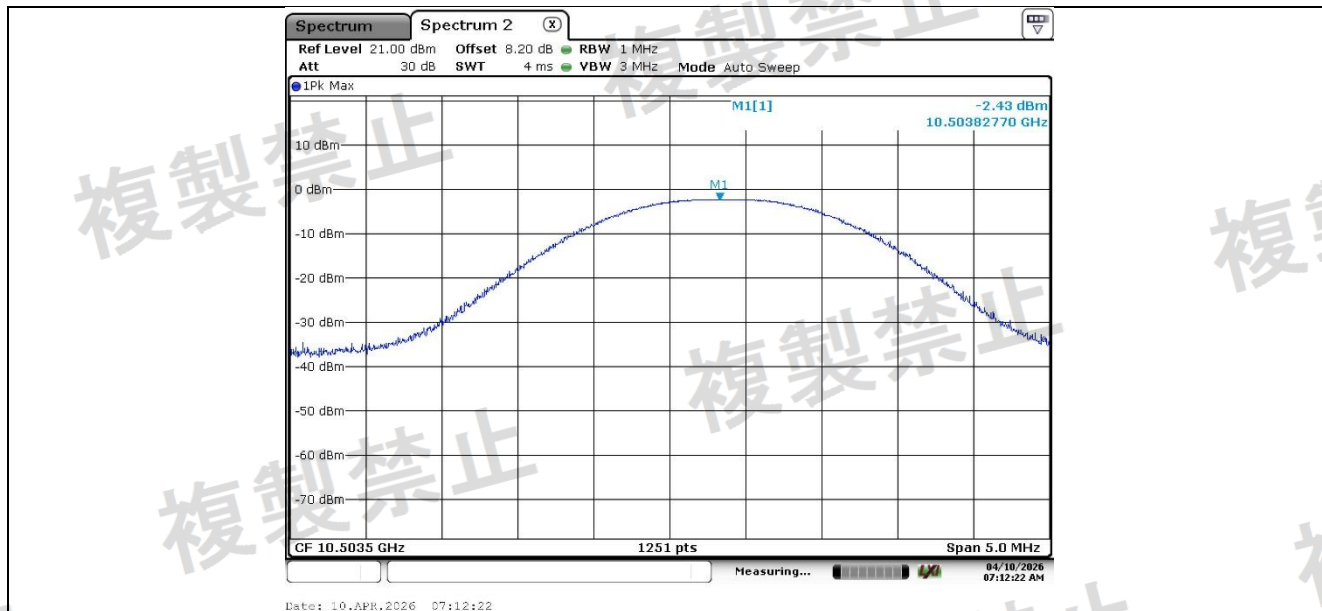


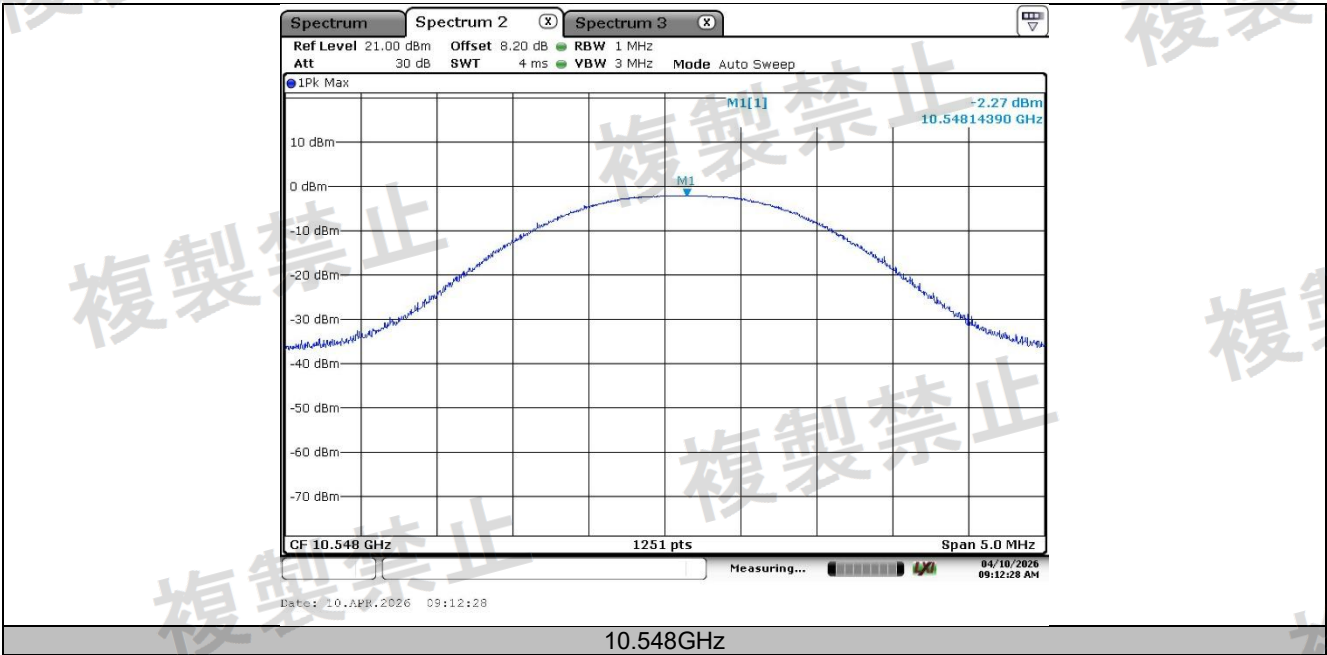
-40°C

**Appendix A.2: Test Results of Antenna Power***Test Results*

Channel frequency (GHz)	Antenna power (dBm)	Antenna power (W)	Antenna power Limit (W)	Rated antenna power (W)	Tolerance of antenna power (%)	Tolerance Limit	Verdict	Remark
10.5035	-2.43	0.000571	≤0.02	0.001	+42.9%	-50% to +50%	Pass	/
10.5385	-2.35	0.000582	≤0.02	0.001	+41.8%	-50% to +50%	Pass	/
10.548	-2.27	0.000593	≤0.02	0.001	+40.7%	-50% to +50%	Pass	/

Test Graphs



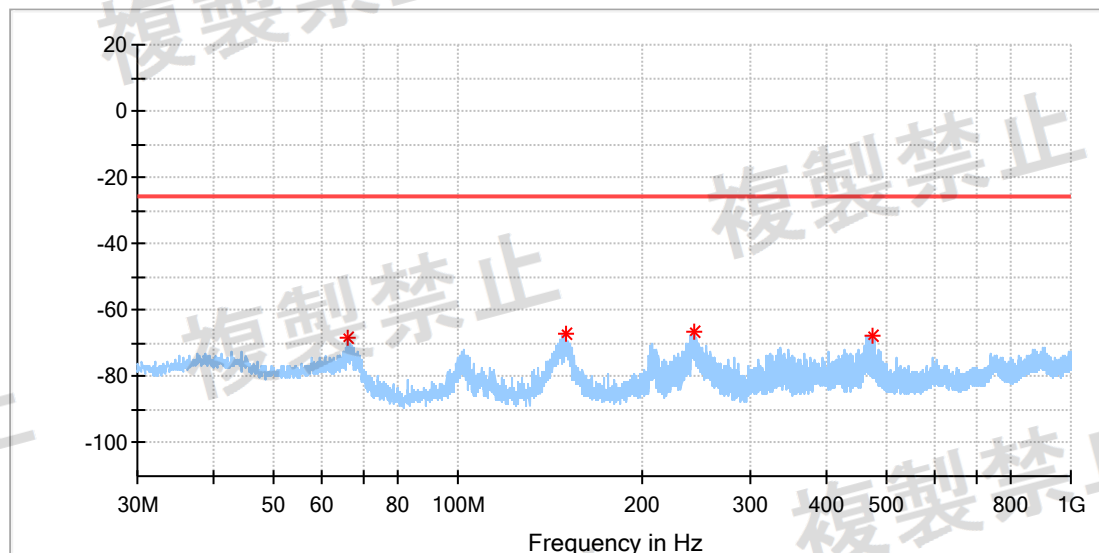


Appendix A.3: Test Results of spurious emissions or unwanted emissions (Tx)

Below 1GHz

EUT Information

EUT Name:	BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model:	BPD019
Sample No:	A004225720-007
Test Mode:	TX_10503.5M
Test Voltage:	DC 3.3V
Remark:	Temp:23.4;Humi:50%
Test standard:	Article 2 Paragraph 1 of Item 8
Tested By:	Lich Chen
Reviewed by:	Terry Yin

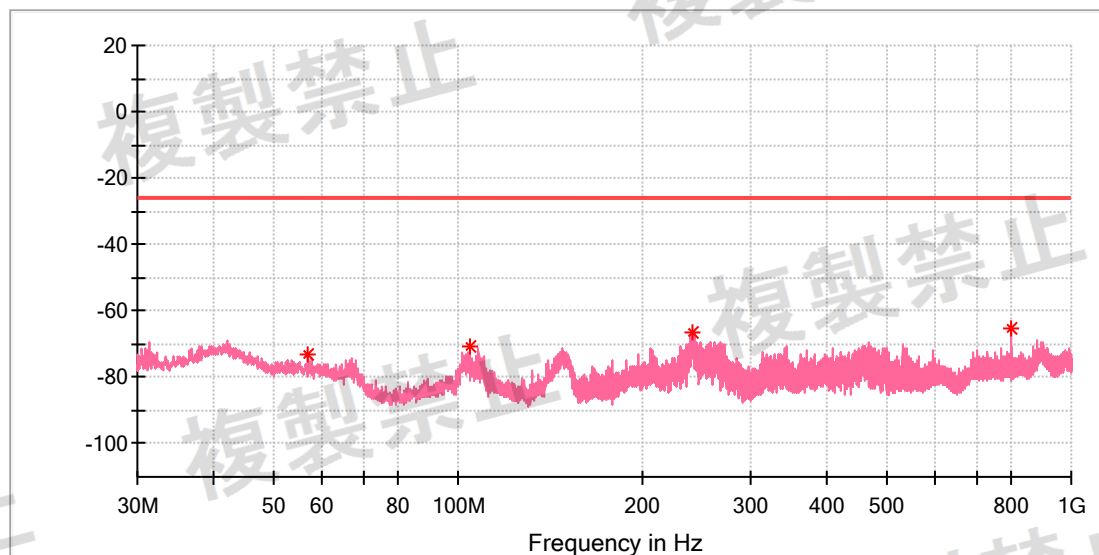


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
65.987000	-68.54	-26.02	42.52	150.0	H	242.0	-99.7
149.698000	-66.88	-26.02	40.86	150.0	H	40.0	-108.7
243.157500	-66.43	-26.02	40.41	150.0	H	322.0	-106.4
475.327000	-67.68	-26.02	41.66	150.0	H	105.0	-102.3

EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10503.5M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



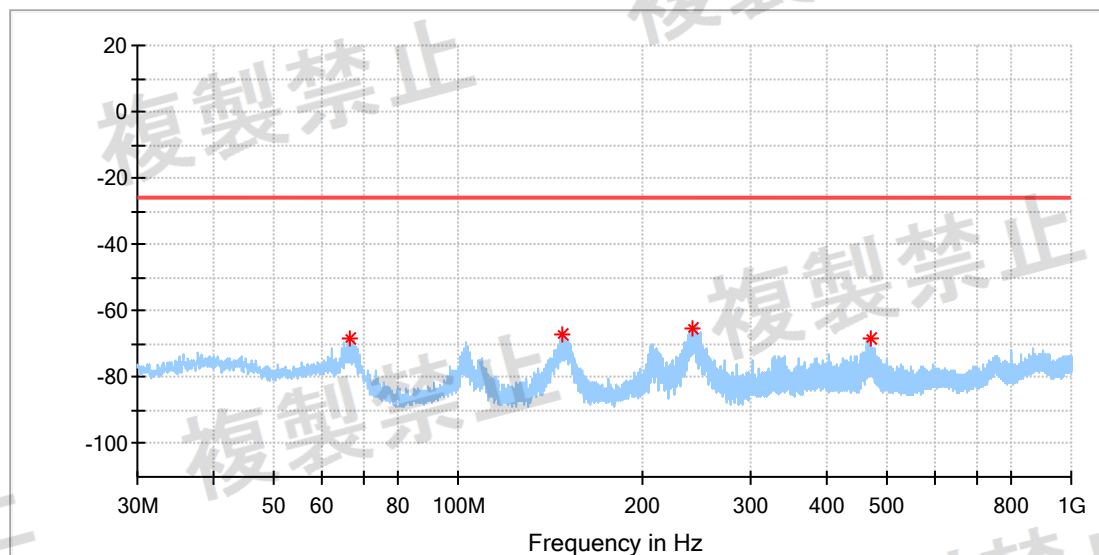
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.063000	-73.02	-26.02	47.00	150.0	V	0.0	-96.6
104.399000	-70.59	-26.02	44.57	150.0	V	316.0	-103.1
241.363000	-66.40	-26.02	40.38	150.0	V	0.0	-106.6
796.542500	-65.13	-26.02	39.11	150.0	V	64.0	-97.9



EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



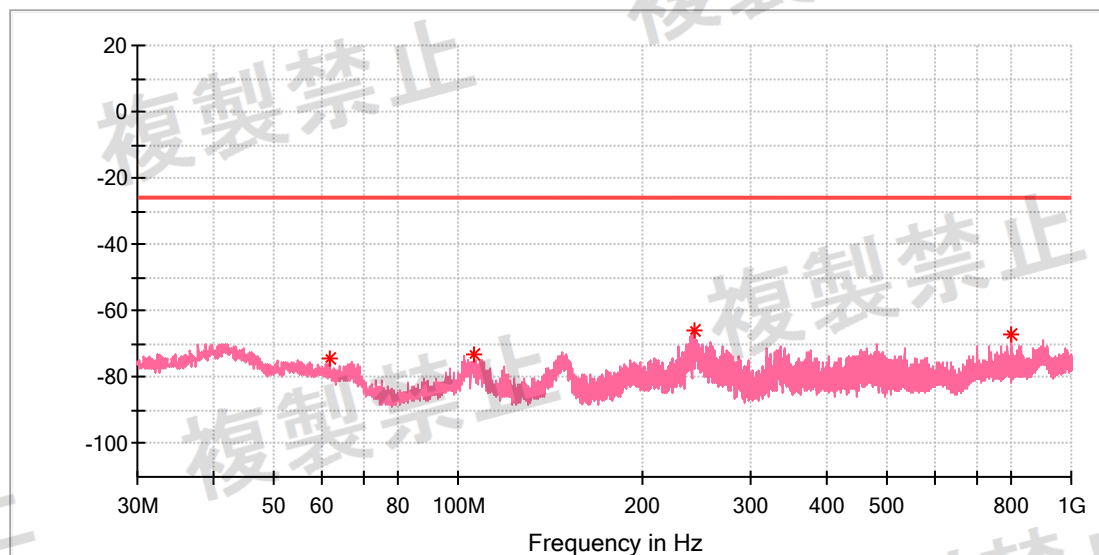
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
66.520500	-68.38	-26.02	42.36	150.0	H	90.0	-99.9
148.243000	-67.35	-26.02	41.33	150.0	H	19.0	-108.9
241.993500	-65.12	-26.02	39.10	150.0	H	104.0	-106.3
472.514000	-68.10	-26.02	42.08	150.0	H	67.0	-101.6



EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



Critical Freqs

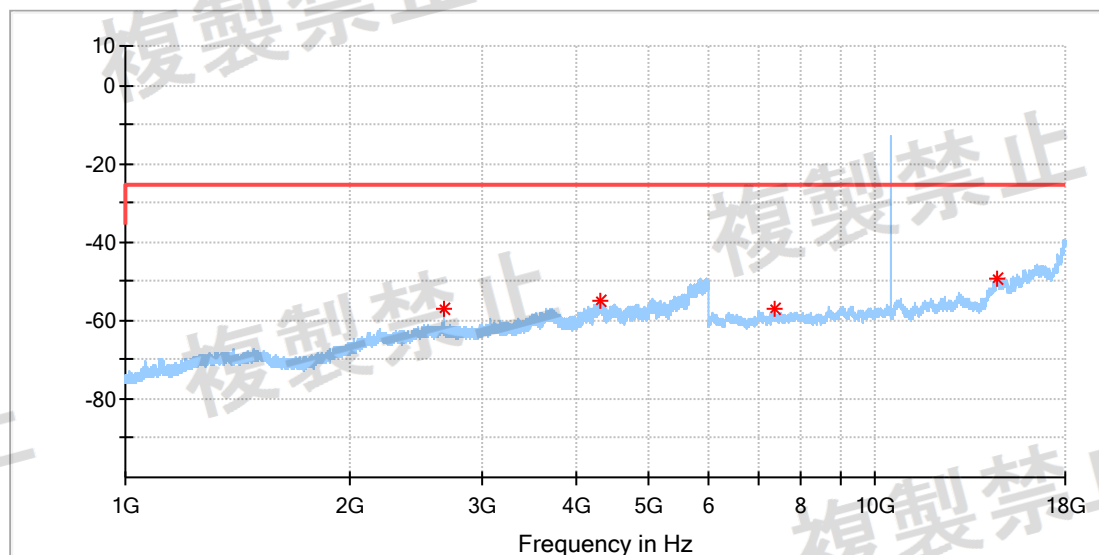
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.719000	-74.41	-26.02	48.39	150.0	V	176.0	-97.8
106.533000	-72.97	-26.02	46.95	150.0	V	176.0	-103.5
243.157500	-66.04	-26.02	40.02	150.0	V	40.0	-106.6
799.404000	-66.78	-26.02	40.76	150.0	V	64.0	-98.0

1GHz - 40GHz

Note: The highest waveform in the figure is 10GHz Wireless Fundamental.

EUT Information

EUT Name:	BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model:	BPD019
Sample No:	A004225720-007
Test Mode:	TX_10503.5M
Test Voltage:	DC 3.3V
Remark:	Temp:23.4;Humi:50%
Test standard:	Article 2 Paragraph 1 of Item 8
Tested By:	Lich Chen
Reviewed by:	Terry Yin

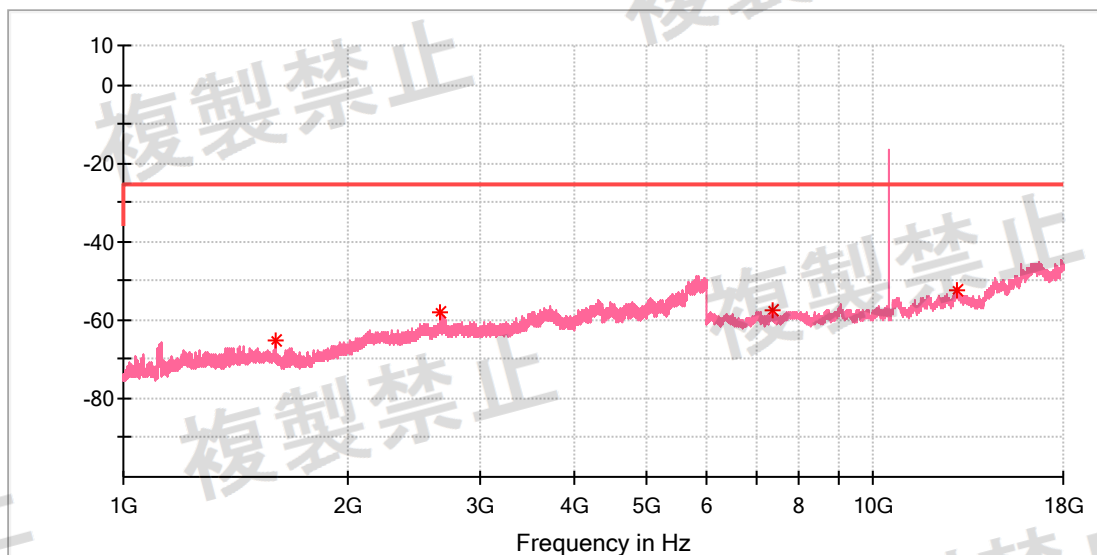


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2659.531250	-57.18	-26.02	31.16	150.0	H	207.0	-92.1
4309.531250	-54.91	-26.02	28.89	150.0	H	124.0	-85.0
7363.750000	-57.20	-26.02	31.18	150.0	H	0.0	-88.3
14608.750000	-49.22	-26.02	23.20	150.0	H	13.0	-79.3

EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10503.5M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin

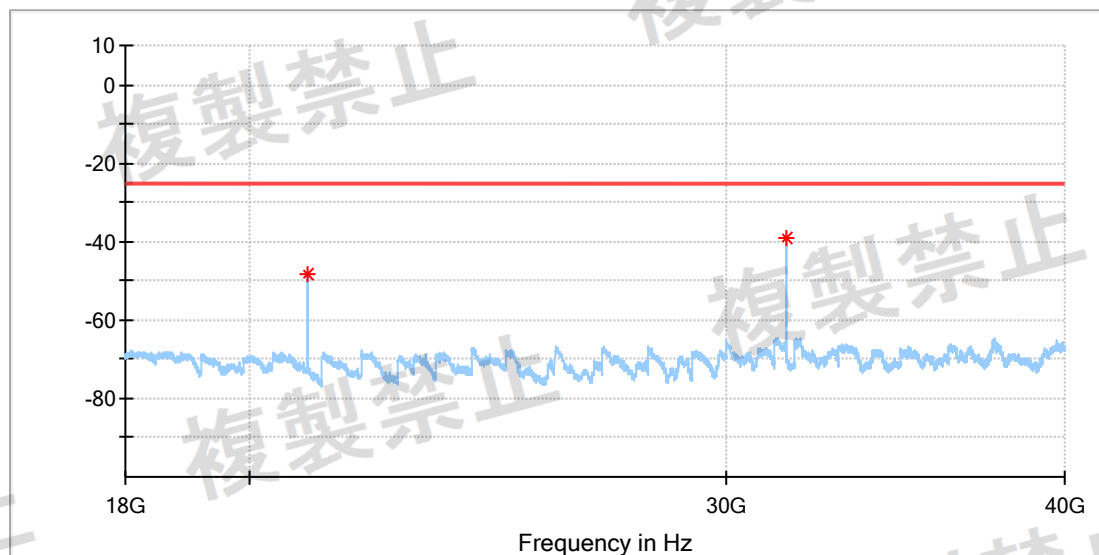


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1599.062500	-65.24	-26.02	39.22	150.0	V	201.0	-98.5
2653.125000	-58.20	-26.02	32.18	150.0	V	196.0	-91.8
7358.750000	-57.65	-26.02	31.63	150.0	V	170.0	-88.7
13012.500000	-52.33	-26.02	26.31	150.0	V	63.0	-81.5

EUT Information

EUT Name:	BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model:	BPD019
Sample No:	A004225720-007
Test Mode:	TX_10503.5M
Test Voltage:	DC 3.3V
Remark:	Temp:23.4;Humi:50%
Test standard:	Article 2 Paragraph 1 of Item 8
Tested By:	Lich Chen
Reviewed by	Terry Yin



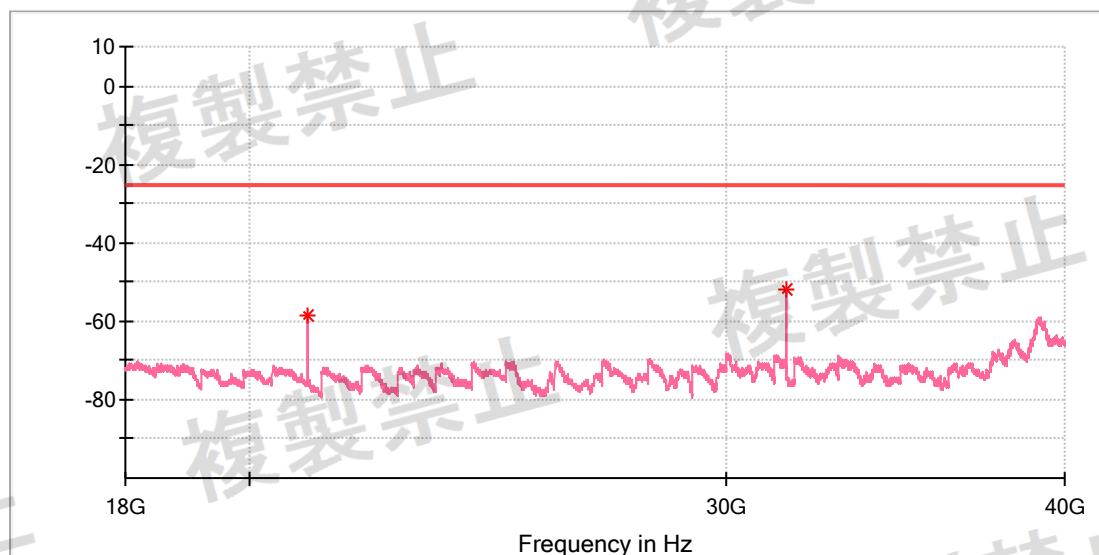
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21031.875000	-48.46	-26.02	22.44	150.0	H	308.0	-108.1
31548.333333	-38.91	-26.02	12.89	150.0	H	359.0	-103.0



EUT Information

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Sample No: A004225720-007
Test Mode: TX_10503.5M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



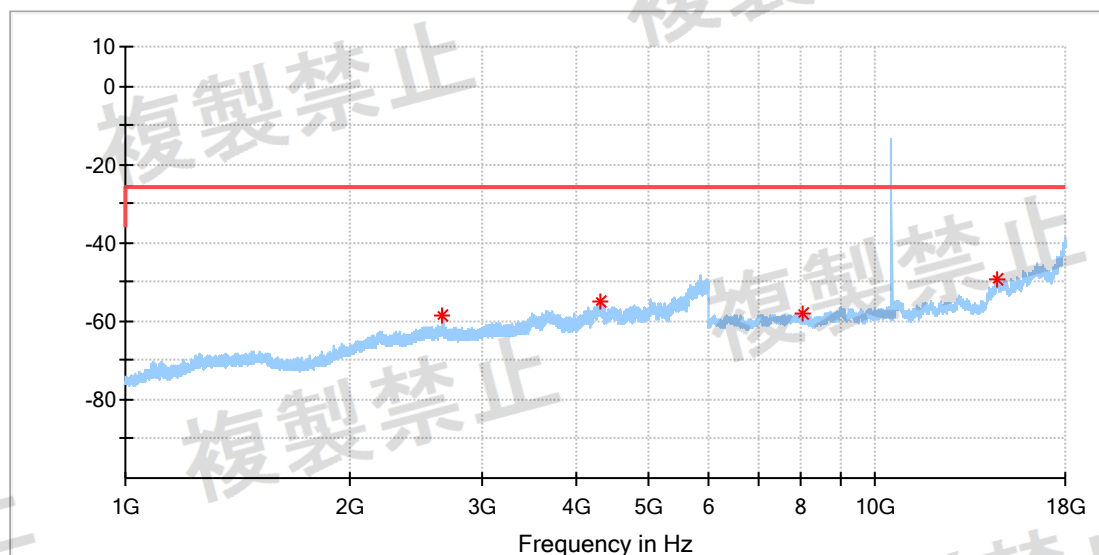
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21031.875000	-58.31	-26.02	32.29	150.0	V	197.0	-111.0
31548.333333	-51.89	-26.02	25.87	150.0	V	26.0	-107.1



EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin

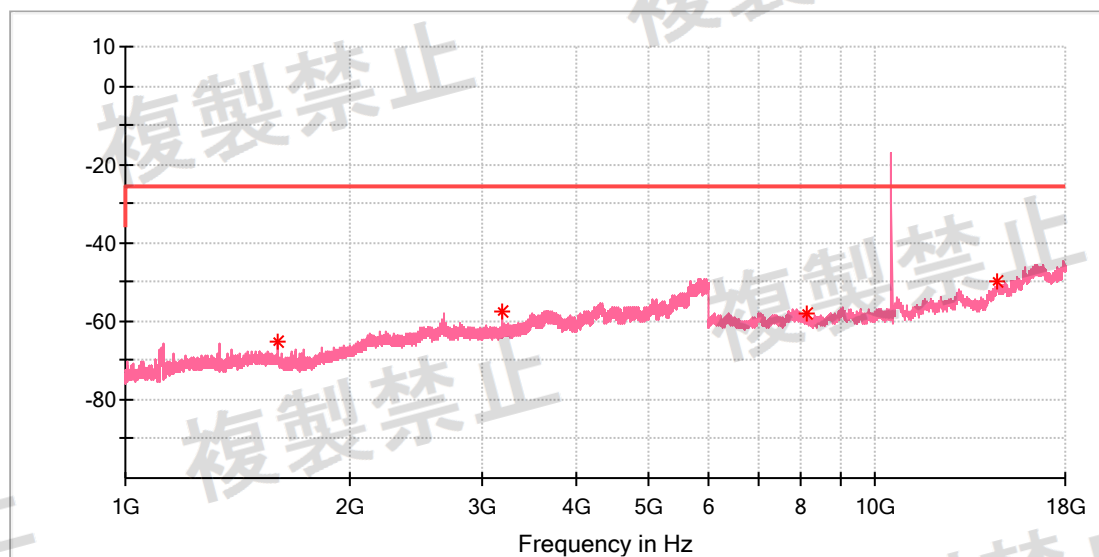


Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2654.218750	-58.31	-26.02	32.29	150.0	H	310.0	-92.0
4309.843750	-54.88	-26.02	28.86	150.0	H	1.0	-85.0
8043.750000	-58.09	-26.02	32.07	150.0	H	103.0	-88.8
14593.750000	-49.51	-26.02	23.49	150.0	H	174.0	-79.4

EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



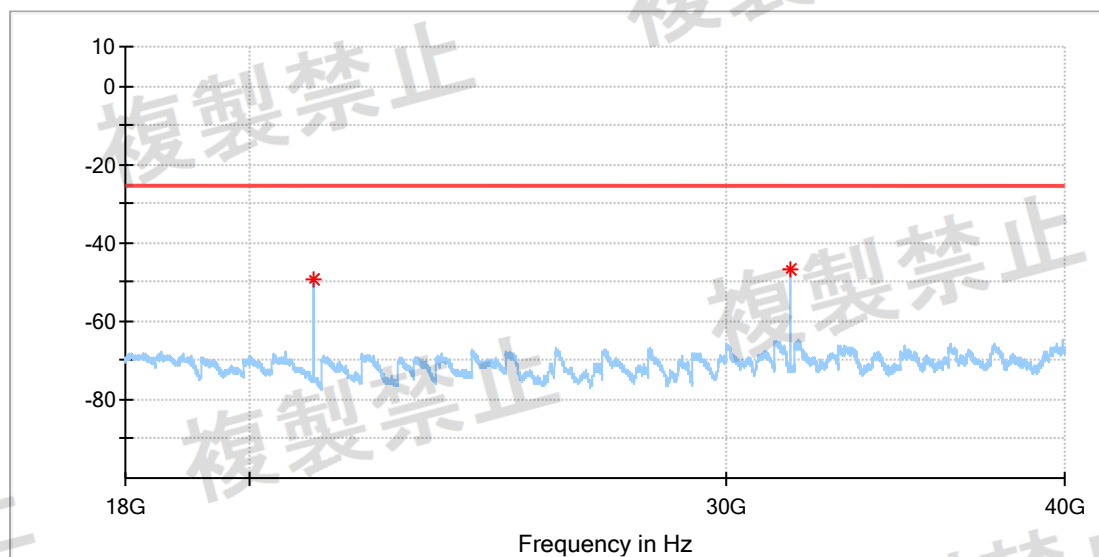
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1599.531250	-65.32	-26.02	39.30	150.0	V	184.0	-98.5
3191.875000	-57.74	-26.02	31.72	150.0	V	284.0	-92.2
8108.750000	-58.07	-26.02	32.05	150.0	V	95.0	-88.8
14593.750000	-50.05	-26.02	24.03	150.0	V	280.0	-80.1



EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



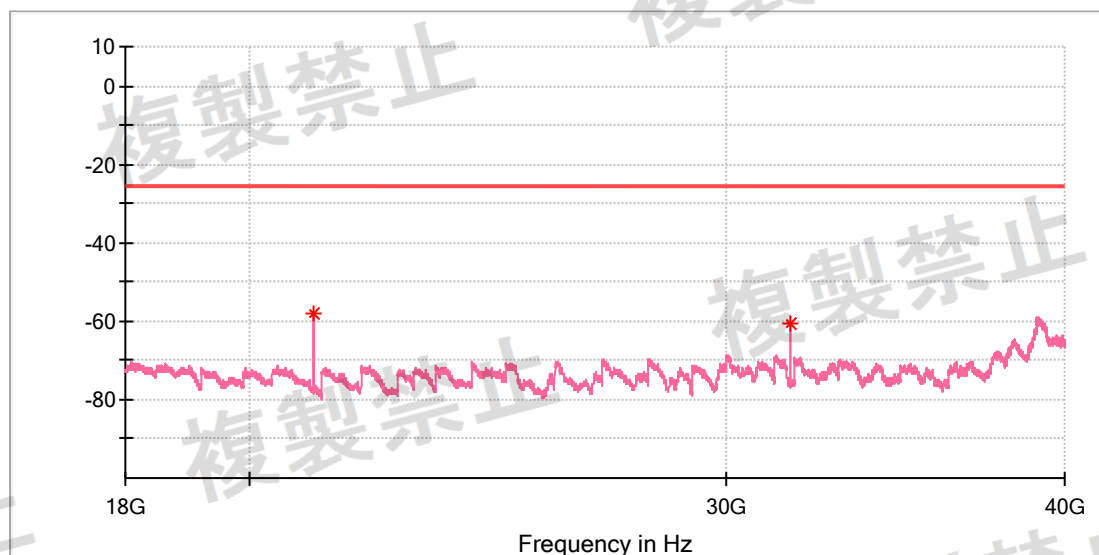
Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21118.958333	-49.35	-26.02	23.33	150.0	H	309.0	-107.9
31681.250000	-46.99	-26.02	20.97	150.0	H	351.0	-102.6



EUT Information

EUT Name: BoostCharge Pro Power Bank 10K with Motion Sensing Light
Model: BPD019
Sample No: A004225720-007
Test Mode: TX_10548M
Test Voltage: DC 3.3V
Remark: Temp:23.4;Humi:50%
Test standard: Article 2 Paragraph 1 of Item 8
Tested By: Lich Chen
Reviewed by: Terry Yin



Critical Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
21118.958333	-58.04	-26.02	32.02	150.0	V	201.0	-110.8
31681.250000	-60.65	-26.02	34.63	150.0	V	43.0	-106.8