

# FCC Radio Test Report

## FCC ID: PU5-LN300WG3D

**Report No.** : BTL-FCCP-11-2102T172A  
**Equipment** : Notebook Computer  
**Model Name** : Lenovo 300w Gen 3xxxxxxx (The "x" in model name can be 0 to 9, A to Z, a to z, "-" or blank, for marketing purpose only)  
**Brand Name** : Lenovo  
**Applicant** : Wistron Corporation  
**Address** : 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan

**Radio Function** : WCDMA Band IV, LTE Band 4, 7, 12, 13, 17, 30, 41, 66

**FCC Rule Part(s)** : 47 CFR FCC Part 27 Subpart D  
47 CFR FCC Part 27 Subpart F  
47 CFR FCC Part 27 Subpart H  
47 CFR FCC Part 27 Subpart L  
47 CFR FCC Part 27 Subpart M

**Measurement Procedure(s)** : ANSI C63.26-2015  
ANSI/TIA-603-E-2016  
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

**Date of Receipt** : 2021/3/12  
**Date of Test** : 2021/3/12 ~ 2021/3/31  
**Issued Date** : 2021/6/10

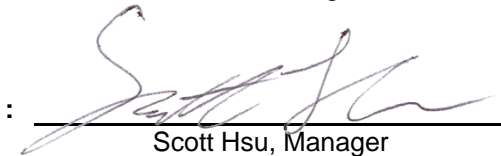
The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by



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**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REVISION HISTORY**

Report No.	Version	Description	Issued Date
BTL-FCCP-11-2102T172A	R00	Original Report.	2021/4/27
BTL-FCCP-11-2102T172A	R01	Revised report to address TCB's comments.	2021/5/21
BTL-FCCP-11-2102T172A	R02	Revised report to address TCB's comments.	2021/5/31
BTL-FCCP-11-2102T172A	R03	Revised report to address TCB's comments.	2021/6/10

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
2.1046 27.50(a)(3) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Effective Radiated Power & Equivalent Isotropic Radiated Power	APPENDIX B	Pass	-----
2.1049	Occupied Bandwidth	NOTE (3)	Pass	-----
2.1051 27.53(c)(2)(4) 27.53(h) 27.53(g)	Conducted Spurious Emissions	NOTE (3)	Pass	-----
2.1053 27.53(a)(4) 27.53(c)(2) 27.53(f) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	APPENDIX C	Pass	-----
2.1053 27.53(a)(4) 27.53(c)(2) 27.53(f) 27.53(g) 27.53(h) 27.53(m)(4)	Band Edge Measurements	NOTE (3)	Pass	-----
-	Peak To Average Ratio	NOTE (3)	Pass	-----
2.1055 27.54	Frequency Stability	NOTE (3)	Pass	-----

**NOTE:**

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This item is demonstrated to full compliance referring to the test report number RF170106C02-2, RF170106C02-3 and RF170106C02-4 of the integrated module (model name: L850-GL, FCC ID: ZMOL850GL), according to KDB 996369 D02 Q1 a) 2).
- (4) The ac power lines conducted emissions and radiated emissions are tested to demonstrate full compliance of both module integrated into the host and host itself.

### 1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan  
 The test sites and facilities are covered under FCC RN: 355421 and DN: TW1099.

C05       CB08       CB11       CB15       CB16

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cispr}$  requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Effective Radiated Power & Equivalent Isotropic Radiated Power and Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	20 °C, 72 %	AC 120V	Vincent Lee
Effective Radiated Power & Equivalent Isotropic Radiated Power	Refer to data	AC 120V	Jay Kao
Radiated Spurious Emissions	Refer to data	AC 120V	Jay Kao

## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer		
Model Name	Lenovo 300w Gen 3xxxxxxx (The "x" in model name can be 0 to 9, A to Z, a to z, "-" or blank, for marketing purpose only)		
Brand Name	Lenovo		
Model Difference	Different model distribute to different area.		
Power Source	DC voltage supplied from External Power Supply. (Lenovo/ADLX45YLC3D)		
Power Rating	I/P: 100-240V~1.3A 50-60Hz O/P: 20.0V---2.25A 45.0W / 15.0V---3.0A / 9.0V---2.0A / 5.0V---2.0A 10.0W		
Products Covered	1 * Adapter: Lenovo/ADLX45YLC3D		
WIFI+BT Module	Intel® Wi-Fi 6 AX200 / AX200NGW		
WWAN Module	Fibocom / L850-GL		
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)
	WCDMA IV	1710 ~ 1755	2110 ~ 2155
	LTE 4	1710 ~ 1755	2110 ~ 2155
	LTE 7	2500 ~ 2570	2620 ~ 2690
	LTE 12	699 ~ 716	729 ~ 746
	LTE 13	777 ~ 787	746 ~ 756
	LTE 17	704 ~ 716	734 ~ 746
	LTE 30	2305 ~ 2315	2350 ~ 2360
	LTE 41	2496 ~ 2690	-
	LTE 66	1710 ~ 1780	2110 ~ 2200
Maximum EIRP	WCDMA IV: 0.206 W		
	LTE 4 (1.4 MHz, QPSK): 0.216 W		
	LTE 4 (1.4 MHz, 16QAM): 0.175 W		
	LTE 4 (3 MHz, QPSK): 0.219 W		
	LTE 4 (3 MHz, 16QAM): 0.177 W		
	LTE 4 (5 MHz, QPSK): 0.221 W		
	LTE 4 (5 MHz, 16QAM): 0.179 W		
	LTE 4 (10 MHz, QPSK): 0.224 W		
	LTE 4 (10 MHz, 16QAM): 0.181 W		
	LTE 4 (15 MHz, QPSK): 0.226 W		
	LTE 4 (15 MHz, 16QAM): 0.183 W		
	LTE 4 (20 MHz, QPSK): 0.229 W		
	LTE 4 (20 MHz, 16QAM): 0.185 W		
	LTE 7 (5 MHz, QPSK): 0.340 W		
	LTE 7 (5 MHz, 16QAM): 0.281 W		
	LTE 7 (10 MHz, QPSK): 0.344 W		
	LTE 7 (10 MHz, 16QAM): 0.284 W		
	LTE 7 (15 MHz, QPSK): 0.348 W		
	LTE 7 (15 MHz, 16QAM): 0.288 W		
	LTE 7 (20 MHz, QPSK): 0.288 W		
	LTE 7 (20 MHz, 16QAM): 0.239 W		
	LTE 30 (5 MHz, QPSK): 0.175 W		
	LTE 30 (5 MHz, 16QAM): 0.142 W		
	LTE 30 (10 MHz, QPSK): 0.176 W		
	LTE 30 (10 MHz, 16QAM): 0.143 W		
	LTE 41 (5 MHz, QPSK): 0.317 W		
	LTE 41 (5 MHz, 16QAM): 0.259 W		
	LTE 41 (10 MHz, QPSK): 0.321 W		
LTE 41 (10 MHz, 16QAM): 0.262 W			
LTE 41 (15 MHz, QPSK): 0.324 W			
LTE 41 (15 MHz, 16QAM): 0.265 W			
LTE 41 (20 MHz, QPSK): 0.278 W			
LTE 41 (20 MHz, 16QAM): 0.230 W			

Maximum EIRP	LTE 66 (1.4 MHz, QPSK): 0.177 W LTE 66 (1.4 MHz, 16QAM): 0.146 W LTE 66 (3 MHz, QPSK): 0.179 W LTE 66 (3 MHz, 16QAM): 0.148 W LTE 66 (5 MHz, QPSK): 0.181 W LTE 66 (5 MHz, 16QAM): 0.150 W LTE 66 (10 MHz, QPSK): 0.183 W LTE 66 (10 MHz, 16QAM): 0.151 W LTE 66 (15 MHz, QPSK): 0.185 W LTE 66 (15 MHz, 16QAM): 0.153 W LTE 66 (20 MHz, QPSK): 0.187 W LTE 66 (20 MHz, 16QAM): 0.155 W
Maximum ERP	LTE 12 (1.4 MHz, QPSK): 0.022 W LTE 12 (1.4 MHz, 16QAM): 0.018 W LTE 12 (3 MHz, QPSK): 0.023 W LTE 12 (3 MHz, 16QAM): 0.019 W LTE 12 (5 MHz, QPSK): 0.023 W LTE 12 (5 MHz, 16QAM): 0.019 W LTE 12 (10 MHz, QPSK): 0.023 W LTE 12 (10 MHz, 16QAM): 0.019 W
	LTE 13 (5 MHz, QPSK): 0.032 W LTE 13 (5 MHz, 16QAM): 0.026 W LTE 13 (10 MHz, QPSK): 0.032 W LTE 13 (10 MHz, 16QAM): 0.027 W
	LTE 17 (5 MHz, QPSK): 0.019 W LTE 17 (5 MHz, 16QAM): 0.015 W LTE 17 (10 MHz, QPSK): 0.019 W LTE 17 (10 MHz, 16QAM): 0.016 W
Test Model	Lenovo 300w Gen 3
Sample Status	Engineering Sample
EUT Modification(s)	N/A

**NOTE:**

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- (2) Table for Filed Antenna:

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	INPAQ Corporation	025.901TX.0001	PIFA	I-PEX	-0.22	WCDMA Band IV LTE Band 4
					1.88	LTE Band 7
					-6.73	LTE Band 12
					-5.59	LTE Band 13
					-7.84	LTE Band 17
					2.14	LTE Band 30
					1.95	LTE Band 41
					-0.22	LTE Band 66
Aux	INPAQ Corporation	025.901TY.0001	PIFA	I-PEX	-	RX only



**2.2 TEST MODES**

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Effective Radiated Power	WCDMA Band IV	TX Mode (CH 1537/1652/1738)	-
	LTE Band 4	TX Mode (CH 20050/20175/20300)	-
	LTE Band 7	TX Mode (CH 20850/21100/21350)	-
	LTE Band 12	TX Mode (CH 23060/23095/23130)	-
	LTE Band 13	TX Mode (CH 23230)	-
	LTE Band 17	TX Mode (CH 23780/23790/23800)	-
	LTE Band 30	TX Mode (CH 27710)	-
	LTE Band 41	TX Mode (CH 39750/40620/41490)	-
	LTE Band 66	TX Mode (CH 132072/132322/132572)	-
Radiated Spurious Emissions	WCDMA Band IV	TX Mode (CH 1652)	-
	LTE Band 4	TX Mode (CH 20175)	-
	LTE Band 7	TX Mode (CH 21100)	-
	LTE Band 12	TX Mode (CH 23095)	-
	LTE Band 13	TX Mode (CH 23230)	-
	LTE Band 17	TX Mode (CH 23790)	-
	LTE Band 30	TX Mode (CH 27710)	-
	LTE Band 41	TX Mode (CH 40620)	-
	LTE Band 66	TX Mode (CH 132322)	-

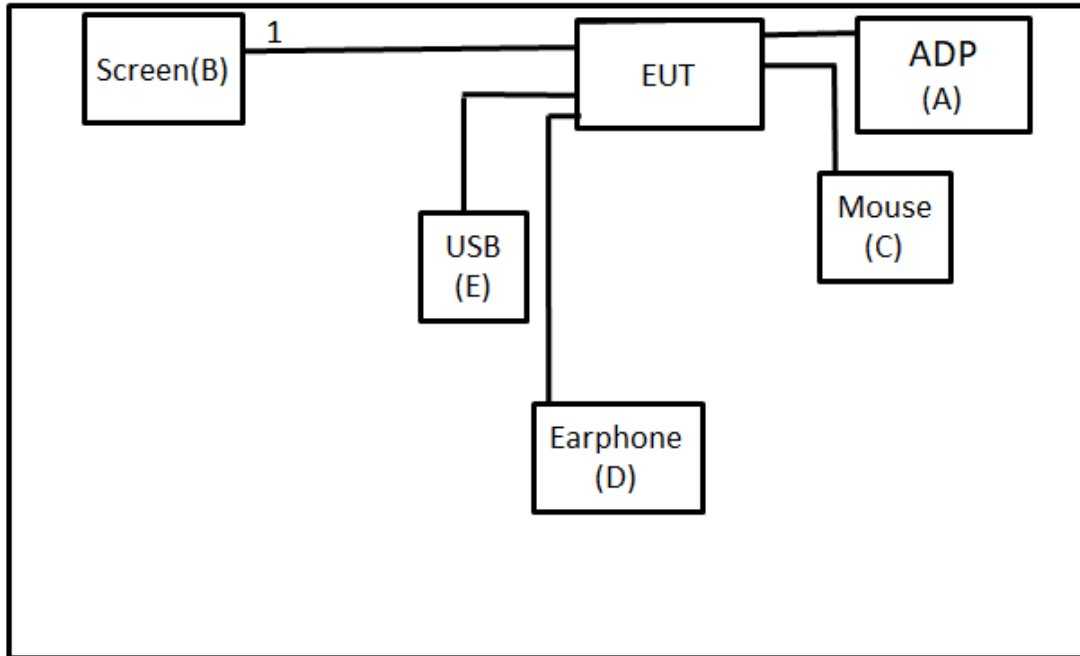
**NOTE:**

- (1) All X, Y and Z axes are evaluated, but only the worst case (WCDMA: Z axis, LTE Band 4/7/30/41/66: Y axis, LTE Band 12/13/17: X axis) is recorded.
- (2) For Radiated Spurious Emissions both QPSK and 16QAM are evaluated, but only the worst case (QPSK) is recorded.

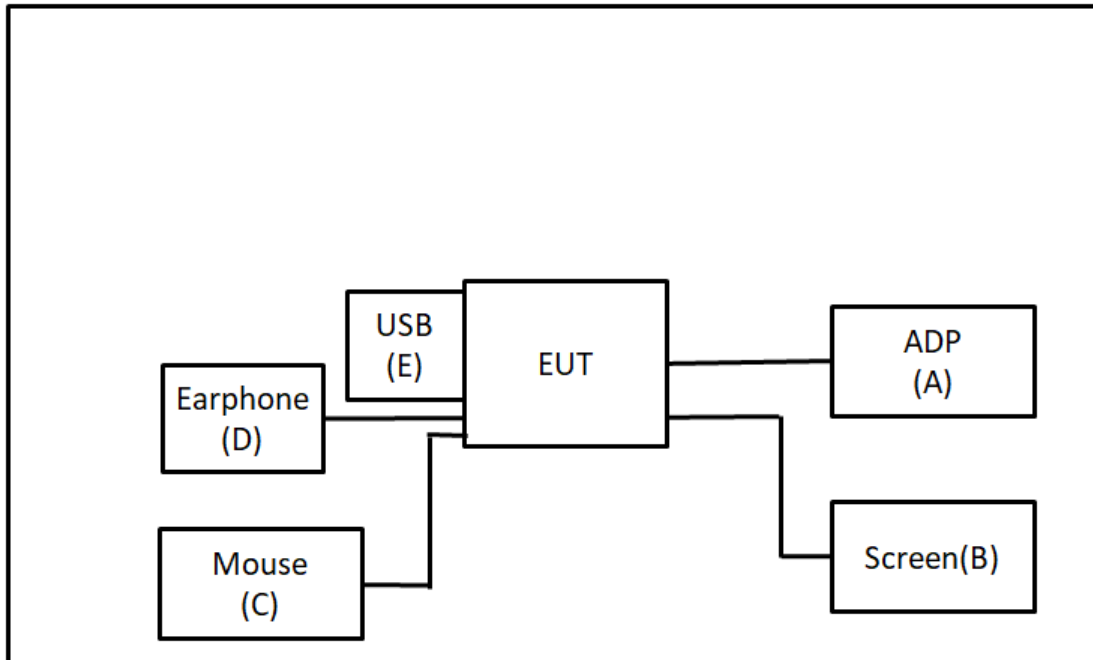
**2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



**2.4 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	ADP	Lenovo	ADLX45YLC3D	N/A	Supplied by test requester.
B	Screen	ASUS	MX27U	N/A	Furnished by test lab.
C	Mouse	ACER	MP-368	N/A	Furnished by test lab.
D	Earphone	Sony	MDR-E9LP	N/A	Furnished by test lab.
E	USB	Kingston	C7052-322.AOOL F	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1.8m	HDMI Cable	Furnished by test lab.

### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**NOTE:**

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value – Limit Value  
 Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).  
 All other support equipment were powered from an additional LISN(s).  
 The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.  
 The end of the cable will be terminated, using the correct terminating impedance.  
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

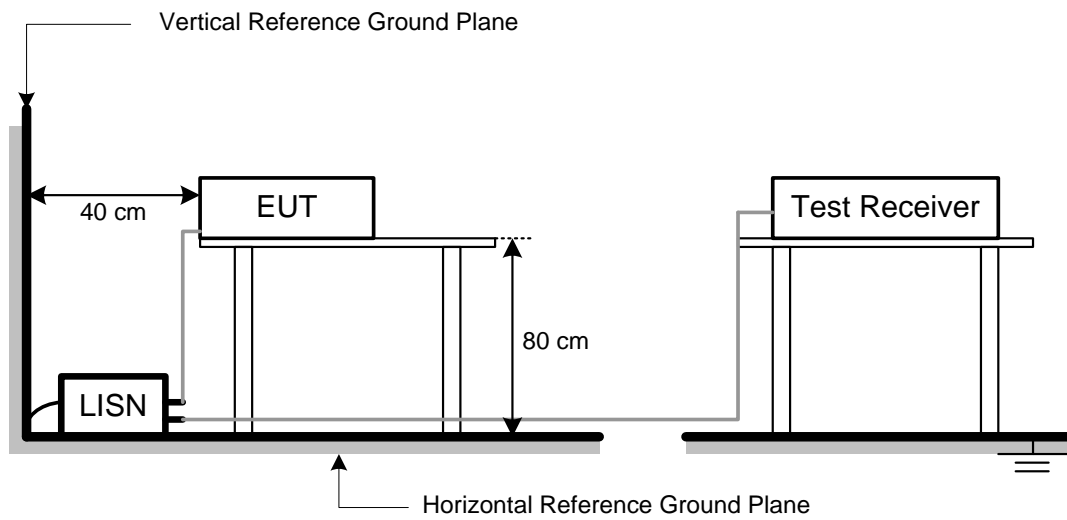
**NOTE:**

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.  
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 TEST RESULT

Please refer to the APPENDIX A.

## 4 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER MEASUREMENT

### 4.1 LIMIT

WCDMA IV, LTE Band 4 and 66:

27.50(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

LTE Band 7 and 41:

27.50(h)(2) BRS and EBS: Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

LTE Band 12 and 17:

27.50(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

LTE Band 13:

27.50(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

LTE Band 30:

27.50(a)(3) Mobile and portable stations. (i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

#### NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-29.66	+	34.26	=	4.60

Measurement Value		Limit Value		Margin Level
4.60	-	38.45	=	-33.85

## 4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

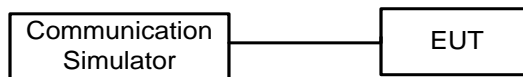
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- ERP can be calculated form EIRP by subtracting the gain of dipole,  $ERP = EIPR - 2.15\text{dBi.}$
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

## 4.3 DEVIATION FROM TEST STANDARD

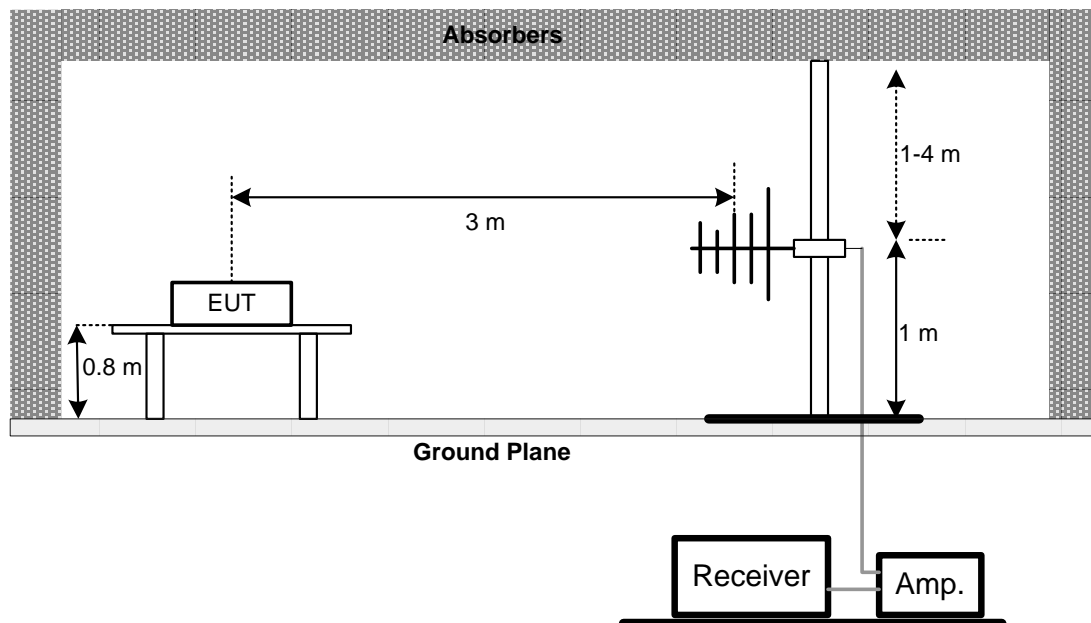
No deviation.

## 4.4 TEST SETUP

### Conducted Measurement:



### Radiated Measurement:



## 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 4.6 TEST RESULT

Please refer to the APPENDIX B.

## 5 RADIATED SPURIOUS EMISSIONS MEASUREMENT

### 5.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

NOTE:

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	=	-52.54

Measurement Value		Limit Value		Margin Level
-52.54	-	-13	=	-39.54

### 5.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 6.2.

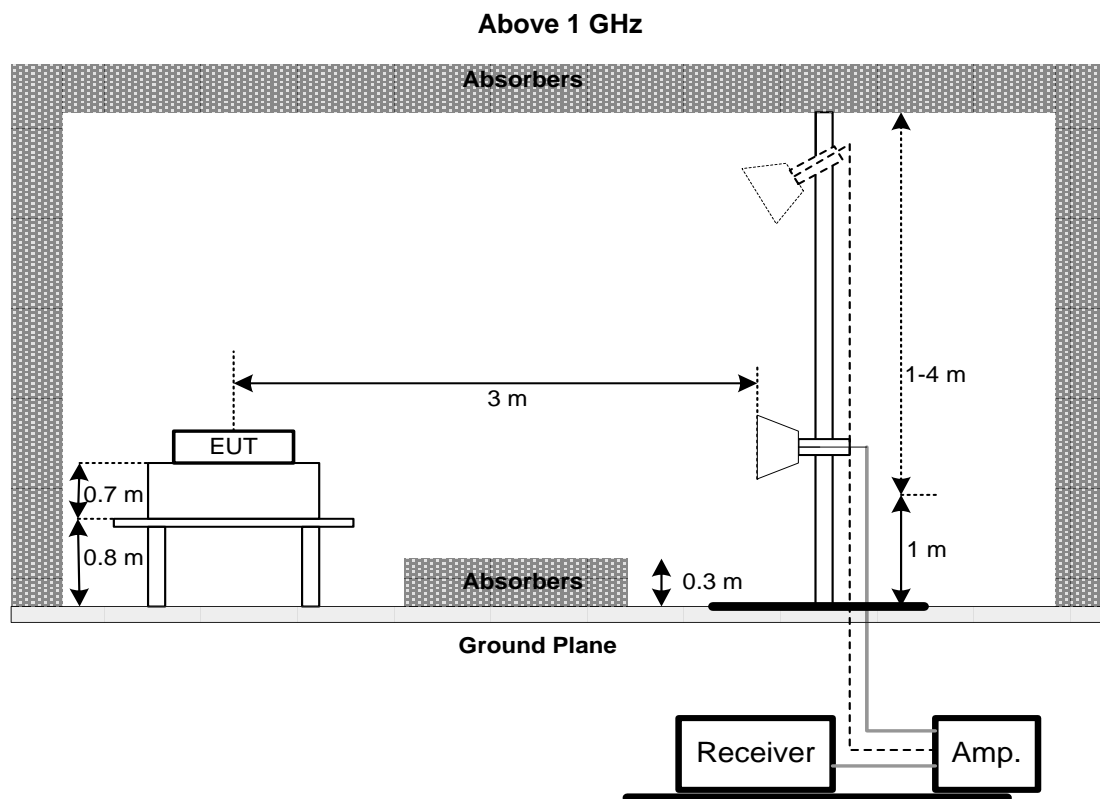
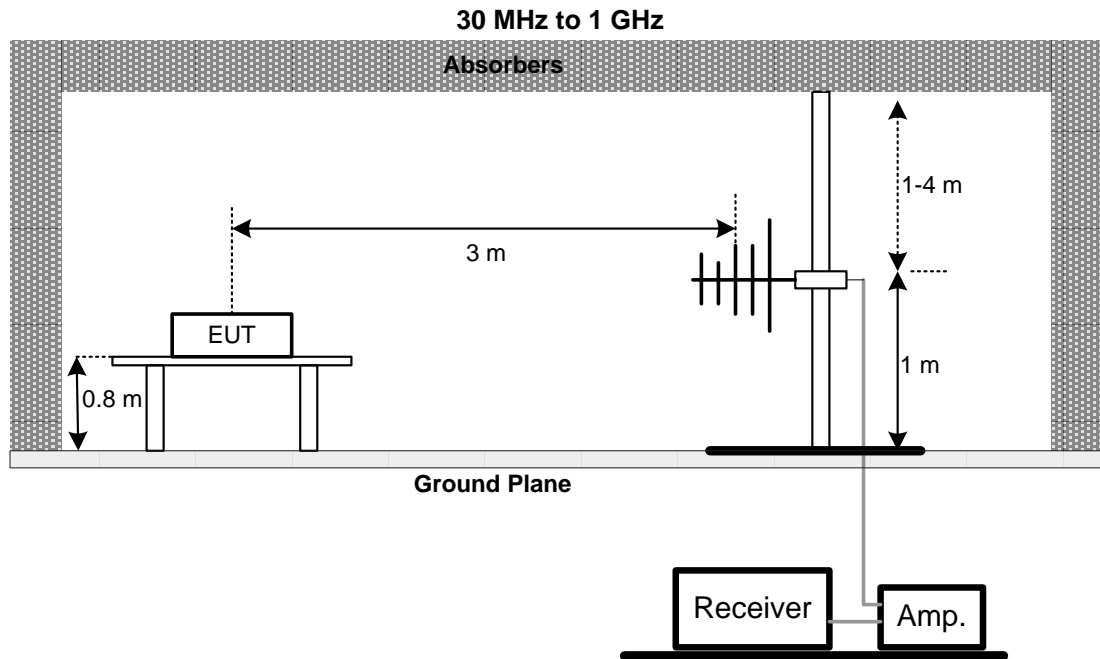
- f. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- g. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- h. EIRP = Output power level of S.G - TX cable loss + Antenna gain of substitution horn.
- i. ERP power can be calculated form EIRP power by subtracting the gain of dipole,  
ERP power = EIRP power - 2.15 dBi.
- j. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz / 3 MHz.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.



## 5.4 TEST SETUP



## 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 5.6 TEST RESULT

Please refer to the APPENDIX C

## 6 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	2020/6/11	2021/6/10
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2020/6/8	2021/6/7
3	EMI Test Receiver	R&S	ESCI	100080	2020/6/15	2021/6/14
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325B	980217	2020/4/10	2021/4/9
2	Preamplifier	EMCI	EMC012645B	980267	2020/4/10	2021/4/9
3	Test Cable	EMCI	EMC-SM-SM-1000	180809	2020/4/10	2021/4/9
4	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2020/4/10	2021/4/9
5	Test Cable	EMCI	EMC-SM-SM-7000	180408	2020/4/10	2021/4/9
6	MXE EMI Receiver	Agilent	N9038A	MY554200087	2020/6/10	2021/6/9
7	Signal Analyzer	Agilent	N9010A	MY56480554	2020/8/25	2021/8/24
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2020/6/12	2021/6/11
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2020/7/9	2021/7/8
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	VULB 9168-352	2020/7/24	2021/7/23
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2020/7/24	2021/7/23
12	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2020/6/4	2021/6/3
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201525878	2020/6/3	2021/6/2
15	Radio Communication Analyzer	Anritsu	MT8821C	6262044728	2020/12/15	2021/12/14

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

## **7 EUT TEST PHOTO**

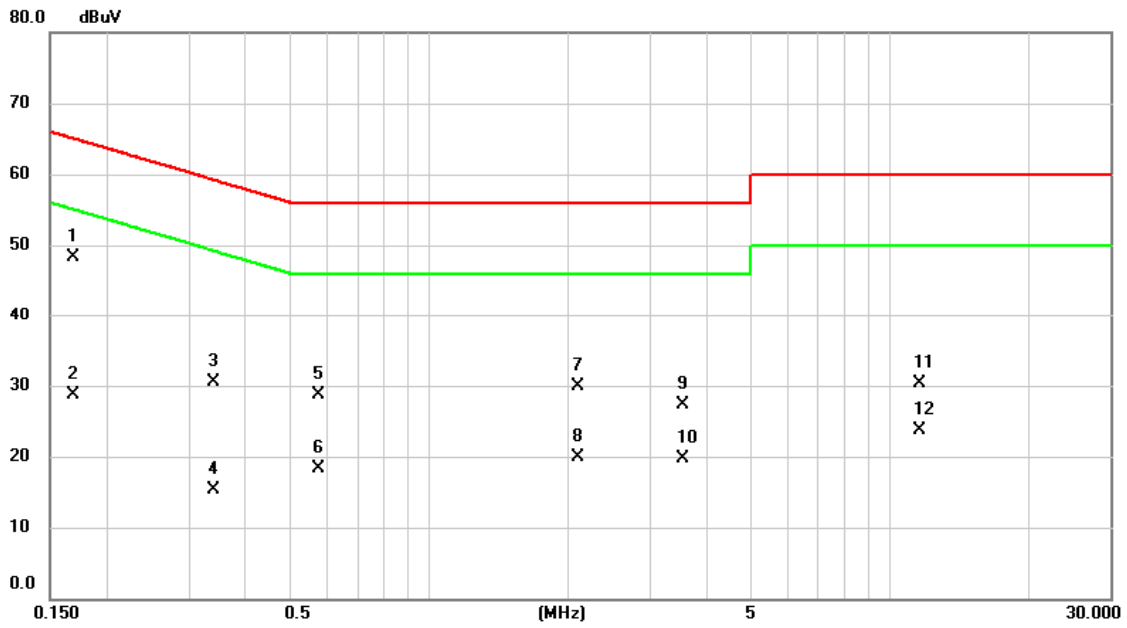
Please refer to document Appendix No.: TP-2102T172A-2 (APPENDIX-TEST PHOTOS).

## **8 EUT PHOTOS**

Please refer to document Appendix No.: EP-2102T172A-2 (APPENDIX-EUT PHOTOS).

## **APPENDIX A AC POWER LINE CONDUCTED EMISSIONS**

Test Mode	Normal	Tested Date	2021/3/23
Test Frequency	-	Phase	Line

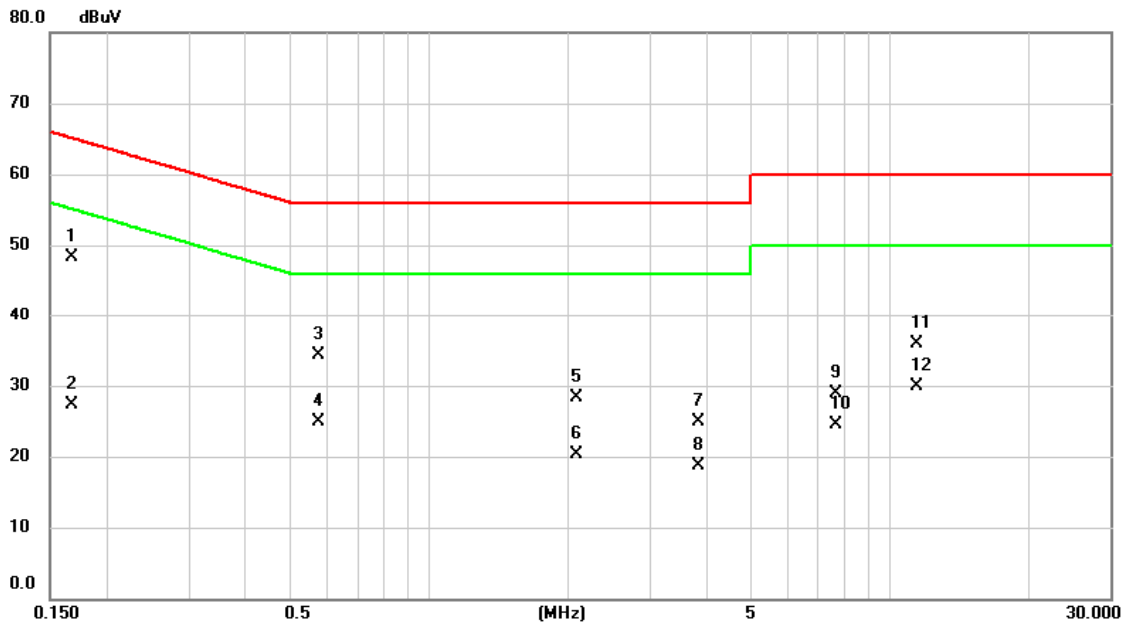


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1685	38.71	9.68	48.39	65.03	-16.64	QP	
2		0.1685	19.08	9.68	28.76	55.03	-26.27	AVG	
3		0.3412	20.75	9.68	30.43	59.17	-28.74	QP	
4		0.3412	5.54	9.68	15.22	49.17	-33.95	AVG	
5		0.5752	19.02	9.68	28.70	56.00	-27.30	QP	
6		0.5752	8.59	9.68	18.27	46.00	-27.73	AVG	
7		2.0963	20.07	9.74	29.81	56.00	-26.19	QP	
8		2.0963	10.25	9.74	19.99	46.00	-26.01	AVG	
9		3.5498	17.43	9.78	27.21	56.00	-28.79	QP	
10		3.5498	9.88	9.78	19.66	46.00	-26.34	AVG	
11		11.5935	20.34	9.93	30.27	60.00	-29.73	QP	
12		11.5935	13.79	9.93	23.72	50.00	-26.28	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2021/3/23
Test Frequency	-	Phase	Neutral

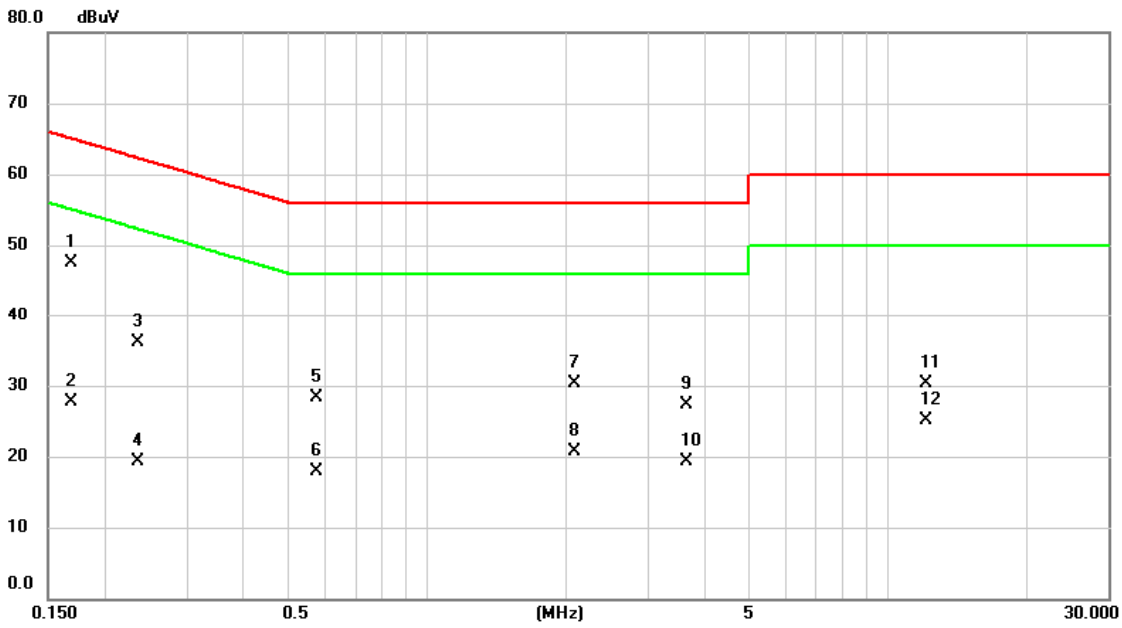


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1668	38.72	9.68	48.40	65.12	-16.72	QP	
2		0.1668	17.60	9.68	27.28	55.12	-27.84	AVG	
3		0.5752	24.68	9.68	34.36	56.00	-21.64	QP	
4		0.5752	15.30	9.68	24.98	46.00	-21.02	AVG	
5		2.0805	18.64	9.74	28.38	56.00	-27.62	QP	
6		2.0805	10.53	9.74	20.27	46.00	-25.73	AVG	
7		3.8288	15.11	9.79	24.90	56.00	-31.10	QP	
8		3.8288	8.95	9.79	18.74	46.00	-27.26	AVG	
9		7.6718	18.96	9.88	28.84	60.00	-31.16	QP	
10		7.6718	14.57	9.88	24.45	50.00	-25.55	AVG	
11		11.4720	25.95	9.93	35.88	60.00	-24.12	QP	
12		11.4720	19.96	9.93	29.89	50.00	-20.11	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

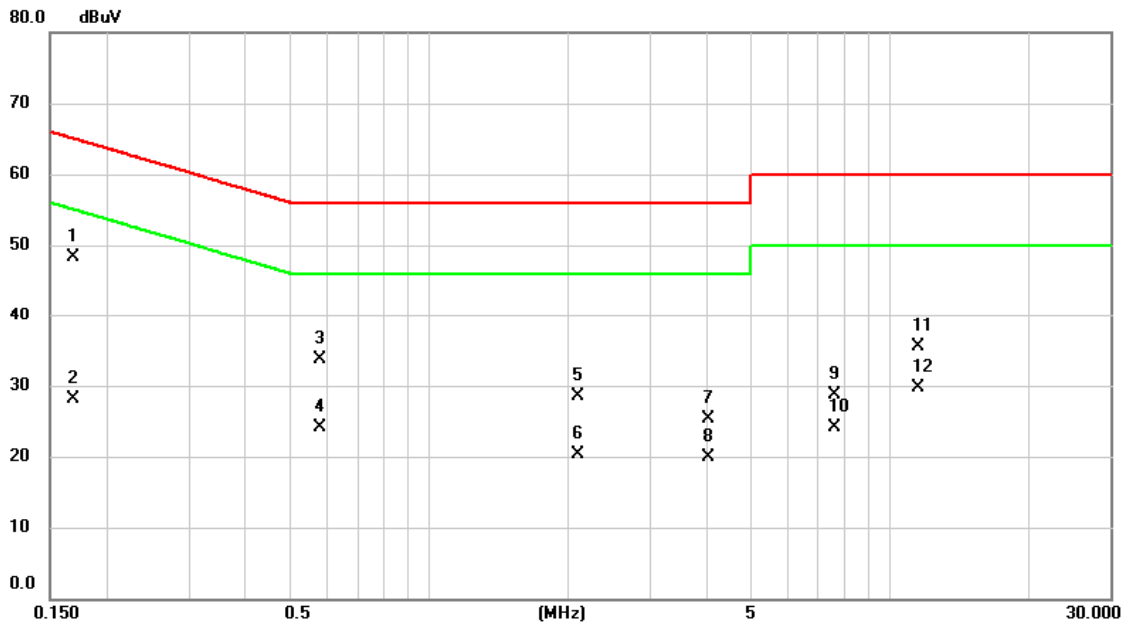
Test Mode	Idle	Tested Date	2021/3/23
Test Frequency	-	Phase	Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1680	37.78	9.68	47.46	65.06	-17.60	QP	
2		0.1680	18.12	9.68	27.80	55.06	-27.26	AVG	
3		0.2355	26.49	9.68	36.17	62.25	-26.08	QP	
4		0.2355	9.67	9.68	19.35	52.25	-32.90	AVG	
5		0.5775	18.65	9.68	28.33	56.00	-27.67	QP	
6		0.5775	8.16	9.68	17.84	46.00	-28.16	AVG	
7		2.0873	20.57	9.74	30.31	56.00	-25.69	QP	
8		2.0873	10.94	9.74	20.68	46.00	-25.32	AVG	
9		3.6420	17.45	9.79	27.24	56.00	-28.76	QP	
10		3.6420	9.50	9.79	19.29	46.00	-26.71	AVG	
11		12.1403	20.32	9.93	30.25	60.00	-29.75	QP	
12		12.1403	15.14	9.93	25.07	50.00	-24.93	AVG	

REMARKS:  
 (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2021/3/23
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1685	38.68	9.68	48.36	65.03	-16.67	QP	
2		0.1685	18.51	9.68	28.19	55.03	-26.84	AVG	
3		0.5797	24.08	9.68	33.76	56.00	-22.24	QP	
4		0.5797	14.48	9.68	24.16	46.00	-21.84	AVG	
5		2.1008	18.72	9.74	28.46	56.00	-27.54	QP	
6		2.1008	10.50	9.74	20.24	46.00	-25.76	AVG	
7		4.0313	15.45	9.80	25.25	56.00	-30.75	QP	
8		4.0313	10.04	9.80	19.84	46.00	-26.16	AVG	
9		7.6155	18.77	9.88	28.65	60.00	-31.35	QP	
10		7.6155	14.26	9.88	24.14	50.00	-25.86	AVG	
11		11.5260	25.62	9.93	35.55	60.00	-24.45	QP	
12		11.5260	19.82	9.93	29.75	50.00	-20.25	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



**APPENDIX B    EFFECTIVE RADIATED POWER & EQUIVALENT  
ISOTROPIC RADIATED POWER**

**Conducted Output Power and calculated ERP/EIRP:**
**WCDMA Band IV Power:**

Band	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	EIRP (dBm)	EIRP (W)
WCDMA Band IV	1312/1537	1712.4	23.35	23.13	<b>0.206</b>
	1413/1638	1732.6	23.10	22.88	0.194
	1513/1738	1752.6	23.28	23.06	0.202

Band	Sub-test	UL/DL Channel No.	Average power(dBm)	EIRP (dBm)	EIRP (W)
HSDPA IV	1	1312/1537	21.85	21.63	0.146
		1413/1638	21.94	21.72	<b>0.149</b>
		1513/1738	21.79	21.57	0.144
	2	1312/1537	21.40	21.18	0.131
		1413/1638	21.49	21.27	0.134
		1513/1738	21.34	21.12	0.129
	3	1312/1537	20.95	20.73	0.118
		1413/1638	21.04	20.82	0.121
		1513/1738	20.89	20.67	0.117
	4	1312/1537	20.87	20.65	0.116
		1413/1638	20.97	20.75	0.119
		1513/1738	20.82	20.60	0.115

Band	Sub-test	UL/DL Channel No.	Average power(dBm)	EIRP (dBm)	EIRP (W)
HSUPA IV	1	1312/1537	21.24	21.02	<b>0.126</b>
		1413/1638	20.28	20.06	0.101
		1513/1738	19.98	19.76	0.095
	2	1312/1537	19.30	19.08	0.081
		1413/1638	18.34	18.12	0.065
		1513/1738	18.04	17.82	0.061
	3	1312/1537	20.36	20.14	0.103
		1413/1638	19.40	19.18	0.083
		1513/1738	19.10	18.88	0.077
	4	1312/1537	19.24	19.02	0.080
		1413/1638	18.28	18.06	0.064
		1513/1738	17.98	17.76	0.060
	5	1312/1537	20.22	20.00	0.100
		1413/1638	20.19	19.97	0.099
		1513/1738	19.89	19.67	0.093

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

**LTE Band 4 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)		
4	1.4	19957	1710.7	QPSK	1	0	0	22.47	22.25	0.168		
					1	2	0	22.27	22.05	0.160		
					1	5	0	22.25	22.03	0.160		
					3	0	0	22.47	22.25	0.168		
					3	1	0	22.27	22.05	0.160		
					3	2	0	22.25	22.03	0.160		
				16QAM	6	0	1	21.53	21.31	0.135		
					1	0	1	21.65	21.43	0.139		
					1	2	1	21.61	21.39	0.138		
					1	5	1	21.32	21.10	0.129		
					3	0	1	21.65	21.43	0.139		
					3	1	1	21.61	21.39	0.138		
		20175	1732.5	QPSK	1732.5	QPSK	3	2	1	21.32	21.10	0.129
							6	0	2	20.62	20.40	0.110
							1	0	0	22.58	22.36	0.172
							1	2	0	22.51	22.29	0.169
							1	5	0	22.55	22.33	0.171
							3	0	0	22.58	22.36	0.172
				16QAM	3	1	0	22.51	22.29	0.169		
					3	2	0	22.55	22.33	0.171		
					6	0	1	21.64	21.42	0.139		
					1	0	1	21.76	21.54	0.143		
					1	2	1	21.72	21.50	0.141		
					1	5	1	21.62	21.40	0.138		
		20392	1754.2	QPSK	1754.2	QPSK	3	0	1	21.76	21.54	0.143
							3	1	1	21.72	21.50	0.141
							3	2	1	21.62	21.40	0.138
							6	0	2	20.50	20.28	0.107
							1	0	0	22.78	22.56	0.180
							1	2	0	22.69	22.47	0.177
				16QAM	1	5	0	23.57	23.35	0.216		
					3	0	0	22.78	22.56	0.180		
					3	1	0	22.69	22.47	0.177		
					3	2	0	23.57	23.35	0.216		
					6	0	1	21.84	21.62	0.145		
					1	0	1	21.96	21.74	0.149		
16QAM	1	2	1	21.92	21.70	0.148						
	1	5	1	22.64	22.42	0.175						
	3	0	1	21.96	21.74	0.149						
	3	1	1	21.92	21.70	0.148						
	3	2	1	22.64	22.42	0.175						
	6	0	2	20.60	20.38	0.109						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)				
4	3	19965	1711.5	QPSK	1	0	0	22.52	22.30	0.170				
					1	7	0	22.32	22.10	0.162				
					1	14	0	22.30	22.08	0.161				
					8	0	1	21.63	21.41	0.138				
					8	4	1	21.36	21.14	0.130				
					8	7	1	21.48	21.26	0.134				
				16QAM	15	0	1	21.58	21.36	0.137				
					1	0	1	21.70	21.48	0.141				
					1	7	1	21.66	21.44	0.139				
					1	14	1	21.37	21.15	0.130				
					8	0	2	20.53	20.31	0.107				
					8	4	2	20.46	20.24	0.106				
		20175	1732.5	QPSK	1732.5	QPSK	8	7	2	20.33	20.11	0.103		
							15	0	2	20.67	20.45	0.111		
							1	0	0	22.63	22.41	0.174		
							1	7	0	22.56	22.34	0.171		
							1	14	0	22.60	22.38	0.173		
							8	0	1	21.74	21.52	0.142		
				16QAM	16QAM	16QAM	16QAM	16QAM	8	4	1	21.60	21.38	0.137
									8	7	1	21.78	21.56	0.143
									15	0	1	21.69	21.47	0.140
									1	0	1	21.81	21.59	0.144
									1	7	1	21.77	21.55	0.143
									1	14	1	21.67	21.45	0.140
		20384	1753.4	QPSK	1753.4	QPSK	8	0	2	20.64	20.42	0.110		
							8	4	2	20.70	20.48	0.112		
							8	7	2	20.63	20.41	0.110		
							15	0	2	20.78	20.56	0.114		
							1	0	0	22.83	22.61	0.182		
							1	7	0	22.74	22.52	0.179		
				16QAM	16QAM	16QAM	16QAM	16QAM	1	14	0	23.62	23.40	0.219
									8	0	1	21.94	21.72	0.149
									8	4	1	21.78	21.56	0.143
									8	7	1	22.80	22.58	0.181
									15	0	1	21.89	21.67	0.147
									1	0	1	22.01	21.79	0.151
16QAM	16QAM	16QAM	16QAM	16QAM	1	7	1	21.97	21.75	0.150				
					1	14	1	22.69	22.47	0.177				
					8	0	2	20.84	20.62	0.115				
					8	4	2	20.88	20.66	0.116				
					8	7	2	21.65	21.43	0.139				
					15	0	2	20.98	20.76	0.119				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
4	5	19975	1712.5	QPSK	1	0	0	22.57	22.35	0.172
					1	12	0	22.37	22.15	0.164
					1	24	0	22.35	22.13	0.163
					12	0	1	21.68	21.46	0.140
					12	6	1	21.41	21.19	0.132
					12	11	1	21.53	21.31	0.135
				16QAM	25	0	1	21.63	21.41	0.138
					1	0	1	21.75	21.53	0.142
					1	12	1	21.71	21.49	0.141
					1	24	1	21.42	21.20	0.132
					12	0	2	20.58	20.36	0.109
					12	6	2	20.51	20.29	0.107
		20175	1732.5	QPSK	12	11	2	20.38	20.16	0.104
					25	0	2	20.72	20.50	0.112
					1	0	0	22.68	22.46	0.176
					1	12	0	22.61	22.39	0.173
					1	24	0	22.65	22.43	0.175
					12	0	1	21.79	21.57	0.144
				16QAM	12	6	1	21.65	21.43	0.139
					12	11	1	21.83	21.61	0.145
					25	0	1	21.74	21.52	0.142
					1	0	1	21.86	21.64	0.146
					1	12	1	21.82	21.60	0.145
					1	24	1	21.72	21.50	0.141
		20375	1752.5	QPSK	12	0	2	20.69	20.47	0.111
					12	6	2	20.75	20.53	0.113
					12	11	2	20.68	20.46	0.111
					25	0	2	20.83	20.61	0.115
					1	0	0	22.88	22.66	0.185
					1	12	0	22.79	22.57	0.181
				16QAM	1	24	0	23.67	23.45	0.221
					12	0	1	21.99	21.77	0.150
					12	6	1	21.83	21.61	0.145
					12	11	1	22.85	22.63	0.183
					25	0	1	21.94	21.72	0.149
					1	0	1	22.06	21.84	0.153
16QAM	1	12	1	22.02	21.80	0.151				
	1	24	1	22.74	22.52	0.179				
	12	0	2	20.89	20.67	0.117				
	12	6	2	20.93	20.71	0.118				
	12	11	2	21.70	21.48	0.141				
	25	0	2	21.03	20.81	0.121				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
4	10	20000	1715.0	QPSK	1	0	0	22.62	22.40	0.174
					1	24	0	22.42	22.20	0.166
					1	49	0	22.40	22.18	0.165
					25	0	1	21.73	21.51	0.142
					25	12	1	21.46	21.24	0.133
					25	24	1	21.58	21.36	0.137
				16QAM	50	0	1	21.68	21.46	0.140
					1	0	1	21.80	21.58	0.144
					1	24	1	21.76	21.54	0.143
					1	49	1	21.47	21.25	0.133
					25	0	2	20.63	20.41	0.110
					25	12	2	20.56	20.34	0.108
					25	24	2	20.43	20.21	0.105
					50	0	2	20.77	20.55	0.114
					20175	1732.5	QPSK	1	0	0
		1	24	0				22.66	22.44	0.175
		1	49	0				22.70	22.48	0.177
		25	0	1				21.84	21.62	0.145
		25	12	1				21.70	21.48	0.141
		25	24	1				21.88	21.66	0.147
		16QAM	50	0			1	21.79	21.57	0.144
			1	0			1	21.91	21.69	0.148
			1	24			1	21.87	21.65	0.146
			1	49			1	21.77	21.55	0.143
			25	0			2	20.74	20.52	0.113
			25	12			2	20.80	20.58	0.114
			25	24			2	20.73	20.51	0.112
			50	0			2	20.88	20.66	0.116
			20350	1750.0			QPSK	1	0	0
		1			24	0		22.84	22.62	0.183
		1			49	0		23.72	23.50	0.224
		25			0	1		22.04	21.82	0.152
		25			12	1		21.88	21.66	0.147
		25			24	1		22.90	22.68	0.185
		16QAM			50	0	1	21.99	21.77	0.150
					1	0	1	22.11	21.89	0.155
					1	24	1	22.07	21.85	0.153
					1	49	1	22.79	22.57	0.181
					25	0	2	20.94	20.72	0.118
					25	12	2	20.98	20.76	0.119
					25	24	2	21.75	21.53	0.142
					50	0	2	21.08	20.86	0.122

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)	
4	15	20025	1717.5	QPSK	1	0	0	22.67	22.45	0.176	
					1	37	0	22.47	22.25	0.168	
					1	74	0	22.45	22.23	0.167	
					36	0	1	21.78	21.56	0.143	
					36	18	1	21.51	21.29	0.135	
					36	35	1	21.63	21.41	0.138	
				16QAM	75	0	1	21.73	21.51	0.142	
					1	0	1	21.85	21.63	0.146	
					1	37	1	21.81	21.59	0.144	
					1	74	1	21.52	21.30	0.135	
					36	0	2	20.68	20.46	0.111	
					36	18	2	20.61	20.39	0.109	
		20175	1732.5	QPSK	1732.5	36	35	2	20.48	20.26	0.106
						75	0	2	20.82	20.60	0.115
						1	0	0	22.78	22.56	0.180
						1	37	0	22.71	22.49	0.177
						1	74	0	22.75	22.53	0.179
						36	0	1	21.89	21.67	0.147
				16QAM	36	18	1	21.75	21.53	0.142	
					36	35	1	21.93	21.71	0.148	
					75	0	1	21.84	21.62	0.145	
					1	0	1	21.96	21.74	0.149	
					1	37	1	21.92	21.70	0.148	
					1	74	1	21.82	21.60	0.145	
		20325	1747.5	QPSK	1747.5	36	0	2	20.79	20.57	0.114
						36	18	2	20.85	20.63	0.116
						36	35	2	20.78	20.56	0.114
						75	0	2	20.93	20.71	0.118
						1	0	0	22.98	22.76	0.189
						1	37	0	22.89	22.67	0.185
				16QAM	1	74	0	23.77	23.55	0.226	
					36	0	1	22.09	21.87	0.154	
					36	18	1	21.93	21.71	0.148	
					36	35	1	22.95	22.73	0.187	
					75	0	1	22.04	21.82	0.152	
					1	0	1	22.16	21.94	0.156	
16QAM	1	37	1	22.12	21.90	0.155					
	1	74	1	22.84	22.62	0.183					
	36	0	2	20.99	20.77	0.119					
	36	18	2	21.03	20.81	0.121					
	36	35	2	21.80	21.58	0.144					
	75	0	2	21.13	20.91	0.123					

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
4	20	20050	1720.0	QPSK	1	0	0	22.72	22.50	0.178
					1	49	0	22.52	22.30	0.170
					1	99	0	22.50	22.28	0.169
					50	0	1	21.83	21.61	0.145
					50	24	1	21.56	21.34	0.136
					50	49	1	21.68	21.46	0.140
				16QAM	100	0	1	21.78	21.56	0.143
					1	0	1	21.90	21.68	0.147
					1	49	1	21.86	21.64	0.146
					1	99	1	21.57	21.35	0.136
					50	0	2	20.73	20.51	0.112
					50	24	2	20.66	20.44	0.111
		20175	1732.5	QPSK	50	49	2	20.53	20.31	0.107
					100	0	2	20.87	20.65	0.116
					1	0	0	22.83	22.61	0.182
					1	49	0	22.76	22.54	0.179
					1	99	0	22.80	22.58	0.181
					50	0	1	21.94	21.72	0.149
				16QAM	50	24	1	21.80	21.58	0.144
					50	49	1	21.98	21.76	0.150
					100	0	1	21.89	21.67	0.147
					1	0	1	22.01	21.79	0.151
					1	49	1	21.97	21.75	0.150
					1	99	1	21.87	21.65	0.146
		20300	1745.0	QPSK	50	0	2	20.84	20.62	0.115
					50	24	2	20.90	20.68	0.117
					50	49	2	20.83	20.61	0.115
					100	0	2	20.98	20.76	0.119
					1	0	0	23.03	22.81	0.191
					1	49	0	22.94	22.72	0.187
				16QAM	1	99	0	23.82	23.60	<b>0.229</b>
					50	0	1	22.14	21.92	0.156
					50	24	1	21.98	21.76	0.150
					50	49	1	23.00	22.78	0.190
					100	0	1	22.09	21.87	0.154
					1	0	1	22.21	21.99	0.158
16QAM	1	49	1	22.17	21.95	0.157				
	1	99	1	22.89	22.67	<b>0.185</b>				
	50	0	2	21.04	20.82	0.121				
	50	24	2	21.08	20.86	0.122				
	50	49	2	21.85	21.63	0.146				
	100	0	2	21.18	20.96	0.125				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.



**LTE Band 7 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)				
7	5	20775	2502.5	QPSK	1	0	0	22.69	24.57	0.286				
					1	12	0	22.79	24.67	0.293				
					1	24	0	22.64	24.52	0.283				
					12	0	1	21.77	23.65	0.232				
					12	6	1	21.97	23.85	0.243				
					12	11	1	21.73	23.61	0.230				
				16QAM	25	0	1	21.75	23.63	0.231				
					1	0	1	21.89	23.77	0.238				
					1	12	1	21.87	23.75	0.237				
					1	24	1	21.84	23.72	0.236				
					12	0	2	20.79	22.67	0.185				
					12	6	2	20.88	22.76	0.189				
		21100	2535.0	QPSK	2535.0	QPSK	12	11	2	20.71	22.59	0.182		
							25	0	2	20.76	22.64	0.184		
							1	0	0	22.79	24.67	0.293		
							1	12	0	22.89	24.77	0.300		
							1	24	0	22.92	24.80	0.302		
							12	0	1	21.91	23.79	0.239		
				16QAM	2535.0	16QAM	2535.0	16QAM	12	6	1	21.99	23.87	0.244
									12	11	1	22.02	23.90	0.245
									25	0	1	22.09	23.97	0.249
									1	0	1	21.91	23.79	0.239
									1	12	1	22.04	23.92	0.247
									1	24	1	22.13	24.01	0.252
		21425	2567.5	QPSK	2567.5	QPSK	12	0	2	20.91	22.79	0.190		
							12	6	2	21.10	22.98	0.199		
							12	11	2	20.99	22.87	0.194		
							25	0	2	21.10	22.98	0.199		
							1	0	0	23.05	24.93	0.311		
							1	12	0	23.34	25.22	0.333		
16QAM	2567.5			16QAM	2567.5	16QAM	1	24	0	23.44	25.32	0.340		
							12	0	1	22.16	24.04	0.254		
							12	6	1	22.48	24.36	0.273		
							12	11	1	22.57	24.45	0.279		
							25	0	1	22.61	24.49	0.281		
							1	0	1	22.16	24.04	0.254		
16QAM	2567.5	16QAM	2567.5	16QAM	1	12	1	22.45	24.33	0.271				
					1	24	1	22.61	24.49	0.281				
					12	0	2	21.16	23.04	0.201				
					12	6	2	21.43	23.31	0.214				
					12	11	2	21.56	23.44	0.221				
					25	0	2	21.52	23.40	0.219				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.88 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)	
7	10	20800	2505.0	QPSK	1	0	0	22.74	24.62	0.290	
					1	24	0	22.84	24.72	0.296	
					1	49	0	22.69	24.57	0.286	
					25	0	1	21.82	23.70	0.234	
					25	12	1	22.02	23.90	0.245	
					25	24	1	21.78	23.66	0.232	
				16QAM	50	0	1	21.80	23.68	0.233	
					1	0	1	21.94	23.82	0.241	
					1	24	1	21.92	23.80	0.240	
					1	49	1	21.89	23.77	0.238	
					25	0	2	20.84	22.72	0.187	
					25	12	2	20.93	22.81	0.191	
		21100	2535.0	QPSK	2535.0	25	24	2	20.76	22.64	0.184
						25	24	2	20.76	22.64	0.184
						50	0	2	20.81	22.69	0.186
						1	0	0	22.84	24.72	0.296
						1	24	0	22.94	24.82	0.303
						1	49	0	22.97	24.85	0.305
				16QAM	25	0	1	21.96	23.84	0.242	
					25	12	1	22.04	23.92	0.247	
					25	24	1	22.07	23.95	0.248	
					50	0	1	22.14	24.02	0.252	
					1	0	1	21.96	23.84	0.242	
					1	24	1	22.09	23.97	0.249	
		21400	2565.0	QPSK	2565.0	1	49	1	22.18	24.06	0.255
						25	0	2	20.96	22.84	0.192
						25	12	2	21.15	23.03	0.201
						25	24	2	21.04	22.92	0.196
						50	0	2	21.15	23.03	0.201
						1	0	0	23.10	24.98	0.315
				16QAM	1	24	0	23.39	25.27	0.337	
					1	49	0	23.49	25.37	0.344	
					25	0	1	22.21	24.09	0.256	
					25	12	1	22.53	24.41	0.276	
					25	24	1	22.62	24.50	0.282	
					50	0	1	22.66	24.54	0.284	
16QAM	1	0	1	22.21	24.09	0.256					
	1	24	1	22.50	24.38	0.274					
	1	49	1	22.66	24.54	0.284					
	25	0	2	21.21	23.09	0.204					
	25	12	2	21.48	23.36	0.217					
	25	24	2	21.61	23.49	0.223					
50	0	2	21.57	23.45	0.221						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.88 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)				
7	15	20825	2507.5	QPSK	1	0	0	22.79	24.67	0.293				
					1	37	0	22.89	24.77	0.300				
					1	74	0	22.74	24.62	0.290				
					36	0	1	21.87	23.75	0.237				
					36	18	1	22.07	23.95	0.248				
					36	35	1	21.83	23.71	0.235				
				16QAM	75	0	1	21.85	23.73	0.236				
					1	0	1	21.99	23.87	0.244				
					1	37	1	21.97	23.85	0.243				
					1	74	1	21.94	23.82	0.241				
					36	0	2	20.89	22.77	0.189				
					36	18	2	20.98	22.86	0.193				
		21100	2535.0	QPSK	2535.0	QPSK	36	35	2	20.81	22.69	0.186		
							75	0	2	20.86	22.74	0.188		
							1	0	0	22.89	24.77	0.300		
							1	37	0	22.99	24.87	0.307		
							1	74	0	23.02	24.90	0.309		
							36	0	1	22.01	23.89	0.245		
				16QAM	2535.0	16QAM	2535.0	16QAM	36	18	1	22.09	23.97	0.249
									36	35	1	22.12	24.00	0.251
									75	0	1	22.19	24.07	0.255
									1	0	1	22.01	23.89	0.245
									1	37	1	22.14	24.02	0.252
									1	74	1	22.23	24.11	0.258
		21375	2563.5	QPSK	2563.5	QPSK	36	0	2	21.01	22.89	0.195		
							36	18	2	21.20	23.08	0.203		
							36	35	2	21.09	22.97	0.198		
							75	0	2	21.20	23.08	0.203		
							1	0	0	23.15	25.03	0.318		
							1	37	0	23.44	25.32	0.340		
				16QAM	2563.5	16QAM	2563.5	16QAM	1	74	0	23.54	25.42	0.348
									36	0	1	22.26	24.14	0.259
									36	18	1	22.58	24.46	0.279
									36	35	1	22.67	24.55	0.285
									75	0	1	22.71	24.59	0.288
									1	0	1	22.26	24.14	0.259
16QAM	2563.5	16QAM	2563.5	16QAM	1	37	1	22.55	24.43	0.277				
					1	74	1	22.71	24.59	0.288				
					36	0	2	21.26	23.14	0.206				
					36	18	2	21.53	23.41	0.219				
					36	35	2	21.66	23.54	0.226				
					75	0	2	21.62	23.50	0.224				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.88 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)		
7	20	20850	2510.0	QPSK	1	0	0	22.49	24.37	0.274		
					1	49	0	22.31	24.19	0.262		
					1	99	0	22.07	23.95	0.248		
					50	0	1	21.60	23.48	0.223		
					50	24	1	21.35	23.23	0.210		
					50	49	1	21.25	23.13	0.206		
				16QAM	100	0	1	21.55	23.43	0.220		
					1	0	1	21.67	23.55	0.226		
					1	49	1	21.63	23.51	0.224		
					1	99	1	21.14	23.02	0.200		
					50	0	2	20.50	22.38	0.173		
					50	24	2	20.45	22.33	0.171		
		21100	2535.0	QPSK	2535.0	QPSK	50	49	2	20.10	21.98	0.158
							100	0	2	20.64	22.52	0.179
							1	0	0	22.42	24.30	0.269
							1	49	0	22.26	24.14	0.259
							1	99	0	22.10	23.98	0.250
							50	0	1	21.53	23.41	0.219
				16QAM	50	24	1	21.30	23.18	0.208		
					50	49	1	21.28	23.16	0.207		
					100	0	1	21.48	23.36	0.217		
					1	0	1	21.60	23.48	0.223		
					1	49	1	21.56	23.44	0.221		
					1	99	1	21.17	23.05	0.202		
		21350	2560.0	QPSK	2560.0	QPSK	50	0	2	20.43	22.31	0.170
							50	24	2	20.40	22.28	0.169
							50	49	2	20.13	22.01	0.159
							100	0	2	20.57	22.45	0.176
							1	0	0	22.72	24.60	0.288
							1	49	0	22.61	24.49	0.281
16QAM	1			99	0	22.43	24.31	0.270				
	50			0	1	21.83	23.71	0.235				
	50			24	1	21.65	23.53	0.225				
	50			49	1	21.61	23.49	0.223				
	100			0	1	21.78	23.66	0.232				
	1			0	1	21.90	23.78	0.239				
16QAM	1	49	1	21.86	23.74	0.237						
	1	99	1	21.50	23.38	0.218						
	50	0	2	20.73	22.61	0.182						
	50	24	2	20.75	22.63	0.183						
	50	49	2	20.46	22.34	0.171						
	100	0	2	20.87	22.75	0.188						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.88 dBi.

**LTE Band 12 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)		
12	1.4	23017	699.7	QPSK	1	0	0	22.14	13.26	0.021		
					1	2	0	22.01	13.13	0.021		
					1	5	0	21.79	12.91	0.020		
					3	0	0	22.14	13.26	0.021		
					3	1	0	22.01	13.13	0.021		
					3	2	0	21.79	12.91	0.020		
				16QAM	6	0	1	21.20	12.32	0.017		
					1	0	1	21.32	12.44	0.018		
					1	2	1	21.28	12.40	0.017		
					1	5	1	20.86	11.98	0.016		
					3	0	1	21.32	12.44	0.018		
					3	1	1	21.28	12.40	0.017		
		23095	707.5	QPSK	707.5	QPSK	3	2	1	20.86	11.98	0.016
							6	0	2	20.29	11.41	0.014
							1	0	0	22.28	13.40	0.022
							1	2	0	22.12	13.24	0.021
							1	5	0	22.16	13.28	0.021
							3	0	0	22.28	13.40	0.022
				16QAM	3	1	0	22.12	13.24	0.021		
					3	2	0	22.16	13.28	0.021		
					6	0	1	21.34	12.46	0.018		
					1	0	1	21.46	12.58	0.018		
					1	2	1	21.42	12.54	0.018		
					1	5	1	21.23	12.35	0.017		
		23173	715.3	QPSK	715.3	QPSK	3	0	1	21.46	12.58	0.018
							3	1	1	21.42	12.54	0.018
							3	2	1	21.23	12.35	0.017
							6	0	2	20.50	11.62	0.015
							1	0	0	22.36	13.48	0.022
							1	2	0	22.24	13.36	0.022
				16QAM	1	5	0	22.12	13.24	0.021		
					3	0	0	22.36	13.48	0.022		
					3	1	0	22.24	13.36	0.022		
					3	2	0	22.12	13.24	0.021		
					6	0	1	21.42	12.54	0.018		
					1	0	1	21.54	12.66	0.018		
16QAM	1	2	1	21.50	12.62	0.018						
	1	5	1	21.19	12.31	0.017						
	3	0	1	21.54	12.66	0.018						
	3	1	1	21.50	12.62	0.018						
	3	2	1	21.19	12.31	0.017						
	6	0	2	20.60	11.72	0.015						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -6.73 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)		
12	3	23025	700.5	QPSK	1	0	0	22.19	13.31	0.021		
					1	7	0	22.06	13.18	0.021		
					1	14	0	21.84	12.96	0.020		
					8	0	1	21.30	12.42	0.017		
					8	4	1	21.10	12.22	0.017		
					8	7	1	21.02	12.14	0.016		
				16QAM	15	0	1	21.25	12.37	0.017		
					1	0	1	21.37	12.49	0.018		
					1	7	1	21.33	12.45	0.018		
					1	14	1	20.91	12.03	0.016		
					8	0	2	20.20	11.32	0.014		
					8	4	2	20.20	11.32	0.014		
		23095	707.5	QPSK	707.5	QPSK	8	7	2	19.87	10.99	0.013
							8	7	2	20.34	11.46	0.014
							15	0	2	20.34	11.46	0.014
							1	0	0	22.33	13.45	0.022
							1	7	0	22.17	13.29	0.021
							1	14	0	22.21	13.33	0.022
				16QAM	8	0	1	21.44	12.56	0.018		
					8	4	1	21.21	12.33	0.017		
					8	7	1	21.39	12.51	0.018		
					15	0	1	21.39	12.51	0.018		
					1	0	1	21.51	12.63	0.018		
					1	7	1	21.47	12.59	0.018		
		23165	714.5	QPSK	714.5	QPSK	1	14	1	21.28	12.40	0.017
							8	0	2	20.34	11.46	0.014
							8	4	2	20.31	11.43	0.014
							8	7	2	20.24	11.36	0.014
							15	0	2	20.48	11.60	0.014
							1	0	0	22.41	13.53	0.023
				16QAM	1	7	0	22.29	13.41	0.022		
					1	14	0	22.17	13.29	0.021		
					8	0	1	21.52	12.64	0.018		
					8	4	1	21.33	12.45	0.018		
					8	7	1	21.35	12.47	0.018		
					15	0	1	21.47	12.59	0.018		
16QAM	1	0	1	21.59	12.71	0.019						
	1	7	1	21.55	12.67	0.018						
	1	14	1	21.24	12.36	0.017						
	8	0	2	20.42	11.54	0.014						
	8	4	2	20.43	11.55	0.014						
	8	7	2	20.20	11.32	0.014						
					15	0	2	20.56	11.68	0.015		

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -6.73 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)	
12	5	23035	701.5	QPSK	1	0	0	22.24	13.36	0.022	
					1	12	0	22.11	13.23	0.021	
					1	24	0	21.89	13.01	0.020	
					12	0	1	21.35	12.47	0.018	
					12	6	1	21.15	12.27	0.017	
					12	11	1	21.07	12.19	0.017	
				25	0	1	21.30	12.42	0.017		
				16QAM	1	0	1	21.42	12.54	0.018	
					1	12	1	21.38	12.50	0.018	
					1	24	1	20.96	12.08	0.016	
					12	0	2	20.25	11.37	0.014	
					12	6	2	20.25	11.37	0.014	
					12	11	2	19.92	11.04	0.013	
					25	0	2	20.39	11.51	0.014	
					23095	707.5	QPSK	1	0	0	22.38
		1	12					0	22.22	13.34	0.022
		1	24	0				22.26	13.38	0.022	
		12	0	1				21.49	12.61	0.018	
		12	6	1				21.26	12.38	0.017	
		12	11	1				21.44	12.56	0.018	
		25	0	1			21.44	12.56	0.018		
		16QAM	1	0			1	21.56	12.68	0.019	
			1	12			1	21.52	12.64	0.018	
			1	24			1	21.33	12.45	0.018	
			12	0			2	20.39	11.51	0.014	
			12	6			2	20.36	11.48	0.014	
			12	11			2	20.29	11.41	0.014	
			25	0			2	20.53	11.65	0.015	
			23155	713.5			QPSK	1	0	0	22.46
					1	12		0	22.34	13.46	0.022
		1			24	0		22.22	13.34	0.022	
		12			0	1		21.57	12.69	0.019	
		12			6	1		21.38	12.50	0.018	
		12			11	1		21.40	12.52	0.018	
		25			0	1	21.52	12.64	0.018		
		16QAM			1	0	1	21.64	12.76	0.019	
					1	12	1	21.60	12.72	0.019	
					1	24	1	21.29	12.41	0.017	
					12	0	2	20.47	11.59	0.014	
					12	6	2	20.48	11.60	0.014	
					12	11	2	20.25	11.37	0.014	
					25	0	2	20.61	11.73	0.015	

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -6.73 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)				
12	10	23060	704.0	QPSK	1	0	0	22.29	13.41	0.022				
					1	24	0	22.16	13.28	0.021				
					1	49	0	21.94	13.06	0.020				
					25	0	1	21.40	12.52	0.018				
					25	12	1	21.20	12.32	0.017				
					25	24	1	21.12	12.24	0.017				
				16QAM	50	0	1	21.35	12.47	0.018				
					1	0	1	21.47	12.59	0.018				
					1	24	1	21.43	12.55	0.018				
					1	49	1	21.01	12.13	0.016				
					25	0	2	20.30	11.42	0.014				
					25	12	2	20.30	11.42	0.014				
		23095	707.5	QPSK	707.5	QPSK	25	24	2	19.97	11.09	0.013		
							25	24	2	19.97	11.09	0.013		
							50	0	2	20.44	11.56	0.014		
							1	0	0	22.43	13.55	0.023		
							1	24	0	22.27	13.39	0.022		
							1	49	0	22.31	13.43	0.022		
				16QAM	16QAM	16QAM	16QAM	16QAM	25	0	1	21.54	12.66	0.018
									25	12	1	21.31	12.43	0.017
									25	24	1	21.49	12.61	0.018
									50	0	1	21.49	12.61	0.018
									1	0	1	21.61	12.73	0.019
									1	24	1	21.57	12.69	0.019
		23130	711.0	QPSK	711.0	QPSK	1	49	1	21.38	12.50	0.018		
							25	0	2	20.44	11.56	0.014		
							25	12	2	20.41	11.53	0.014		
							25	24	2	20.34	11.46	0.014		
							50	0	2	20.58	11.70	0.015		
							1	0	0	22.51	13.63	<b>0.023</b>		
16QAM	16QAM			16QAM	16QAM	16QAM	1	24	0	22.39	13.51	0.022		
							1	49	0	22.27	13.39	0.022		
							25	0	1	21.62	12.74	0.019		
							25	12	1	21.43	12.55	0.018		
							25	24	1	21.45	12.57	0.018		
							50	0	1	21.57	12.69	0.019		
16QAM	16QAM	16QAM	16QAM	16QAM	1	0	1	21.69	12.81	<b>0.019</b>				
					1	24	1	21.65	12.77	0.019				
					1	49	1	21.34	12.46	0.018				
					25	0	2	20.52	11.64	0.015				
					25	12	2	20.53	11.65	0.015				
					25	24	2	20.30	11.42	0.014				
50	0	2	20.66	11.78	0.015									

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -6.73 dBi.



**LTE Band 13 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)		
13	5	23205	779.5	QPSK	1	0	0	22.78	15.04	0.032		
					1	12	0	22.50	14.76	0.030		
					1	24	0	22.43	14.69	0.029		
					12	0	1	21.89	14.15	0.026		
					12	6	1	21.54	13.80	0.024		
					12	11	1	21.61	13.87	0.024		
				16QAM	25	0	1	21.84	14.10	0.026		
					1	0	1	21.96	14.22	0.026		
					1	12	1	21.92	14.18	0.026		
					1	24	1	21.50	13.76	0.024		
					12	0	2	20.79	13.05	0.020		
					12	6	2	20.64	12.90	0.019		
		23230	752.0	QPSK	752.0	QPSK	12	11	2	20.46	12.72	0.019
							25	0	2	20.93	13.19	0.021
							1	0	0	22.78	15.04	0.032
							1	12	0	22.50	14.76	0.030
							1	24	0	22.43	14.69	0.029
							12	0	1	21.89	14.15	0.026
				16QAM	12	6	1	21.54	13.80	0.024		
					12	11	1	21.61	13.87	0.024		
					25	0	1	21.84	14.10	0.026		
					1	0	1	21.96	14.22	0.026		
					1	12	1	21.92	14.18	0.026		
					1	24	1	21.50	13.76	0.024		
		23255	784.5	QPSK	784.5	QPSK	12	0	2	20.79	13.05	0.020
							12	6	2	20.64	12.90	0.019
							12	11	2	20.46	12.72	0.019
25	0						2	20.93	13.19	0.021		
1	0						0	22.78	15.04	0.032		
1	12						0	22.50	14.76	0.030		
16QAM	1			24	0	22.43	14.69	0.029				
	12			0	1	21.89	14.15	0.026				
	12			6	1	21.54	13.80	0.024				
	12			11	1	21.61	13.87	0.024				
	25			0	1	21.84	14.10	0.026				
	1			0	1	21.96	14.22	0.026				
16QAM	1	12	1	21.92	14.18	0.026						
	1	24	1	21.50	13.76	0.024						
	12	0	2	20.79	13.05	0.020						
	12	6	2	20.64	12.90	0.019						
	12	11	2	20.46	12.72	0.019						
	25	0	2	20.93	13.19	0.021						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -5.59 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)
13	10	23230	782.0	QPSK	1	0	0	22.81	15.07	<b>0.032</b>
					1	24	0	22.53	14.79	0.030
					1	49	0	22.46	14.72	0.030
					25	0	1	21.92	14.18	0.026
					25	12	1	21.57	13.83	0.024
					25	24	1	21.64	13.90	0.025
					50	0	1	21.87	14.13	0.026
				16QAM	1	0	1	21.99	14.25	<b>0.027</b>
					1	24	1	21.95	14.21	0.026
					1	49	1	21.53	13.79	0.024
					25	0	2	20.82	13.08	0.020
					25	12	2	20.67	12.93	0.020
					25	24	2	20.49	12.75	0.019
					50	0	2	20.96	13.22	0.021

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -5.59 dBi.

**LTE Band 17 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)				
17	5	23780	706.5	QPSK	1	0	0	22.48	12.49	0.018				
					1	12	0	22.22	12.23	0.017				
					1	24	0	22.24	12.25	0.017				
					12	0	1	21.59	11.60	0.014				
					12	6	1	21.26	11.27	0.013				
					12	11	1	21.42	11.43	0.014				
				16QAM	25	0	1	21.54	11.55	0.014				
					1	0	1	21.66	11.67	0.015				
					1	12	1	21.62	11.63	0.015				
					1	24	1	21.31	11.32	0.014				
					12	0	2	20.49	10.50	0.011				
					12	6	2	20.36	10.37	0.011				
		23790	710.0	QPSK	710.0	QPSK	12	11	2	20.27	10.28	0.011		
							25	0	2	20.63	10.64	0.012		
							1	0	0	22.68	12.69	0.019		
							1	12	0	22.62	12.63	0.018		
							1	24	0	22.41	12.42	0.017		
							12	0	1	21.79	11.80	0.015		
				16QAM	16QAM	16QAM	16QAM	16QAM	12	6	1	21.66	11.67	0.015
									12	11	1	21.59	11.60	0.014
									25	0	1	21.74	11.75	0.015
									1	0	1	21.86	11.87	0.015
									1	12	1	21.82	11.83	0.015
									1	24	1	21.48	11.49	0.014
		23800	713.5	QPSK	713.5	QPSK	12	0	2	20.69	10.70	0.012		
							12	6	2	20.76	10.77	0.012		
							12	11	2	20.44	10.45	0.011		
							25	0	2	20.83	10.84	0.012		
							1	0	0	22.44	12.45	0.018		
							1	12	0	22.36	12.37	0.017		
				16QAM	16QAM	16QAM	16QAM	16QAM	1	24	0	22.26	12.27	0.017
									12	0	1	21.55	11.56	0.014
									12	6	1	21.40	11.41	0.014
									12	11	1	21.44	11.45	0.014
									25	0	1	21.50	11.51	0.014
									1	0	1	21.62	11.63	0.015
16QAM	16QAM	16QAM	16QAM	16QAM	1	12	1	21.58	11.59	0.014				
					1	24	1	21.33	11.34	0.014				
					12	0	2	20.45	10.46	0.011				
					12	6	2	20.50	10.51	0.011				
					12	11	2	20.29	10.30	0.011				
					25	0	2	20.59	10.60	0.011				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -7.84 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP (dBm)	ERP (W)				
17	10	23780	709.0	QPSK	1	0	0	22.53	12.54	0.018				
					1	24	0	22.27	12.28	0.017				
					1	49	0	22.29	12.30	0.017				
					25	0	1	21.64	11.65	0.015				
					25	12	1	21.31	11.32	0.014				
					25	24	1	21.47	11.48	0.014				
				16QAM	50	0	1	21.59	11.60	0.014				
					1	0	1	21.71	11.72	0.015				
					1	24	1	21.67	11.68	0.015				
					1	49	1	21.36	11.37	0.014				
					25	0	2	20.54	10.55	0.011				
					25	12	2	20.41	10.42	0.011				
		23790	710.0	QPSK	710.0	QPSK	25	24	2	20.32	10.33	0.011		
							50	0	2	20.68	10.69	0.012		
							1	0	0	22.73	12.74	0.019		
							1	24	0	22.67	12.68	0.019		
							1	49	0	22.46	12.47	0.018		
							25	0	1	21.84	11.85	0.015		
				16QAM	16QAM	16QAM	16QAM	16QAM	25	12	1	21.71	11.72	0.015
									25	24	1	21.64	11.65	0.015
									50	0	1	21.79	11.80	0.015
									1	0	1	21.91	11.92	0.016
									1	24	1	21.87	11.88	0.015
									1	49	1	21.53	11.54	0.014
		23800	711.0	QPSK	711.0	QPSK	25	0	2	20.74	10.75	0.012		
							25	12	2	20.81	10.82	0.012		
							25	24	2	20.49	10.50	0.011		
							50	0	2	20.88	10.89	0.012		
							1	0	0	22.49	12.50	0.018		
							1	24	0	22.41	12.42	0.017		
				16QAM	16QAM	16QAM	16QAM	16QAM	1	49	0	22.31	12.32	0.017
									25	0	1	21.60	11.61	0.014
									25	12	1	21.45	11.46	0.014
									25	24	1	21.49	11.50	0.014
									50	0	1	21.55	11.56	0.014
									1	0	1	21.67	11.68	0.015
16QAM	16QAM	16QAM	16QAM	16QAM	1	24	1	21.63	11.64	0.015				
					1	49	1	21.38	11.39	0.014				
					25	0	2	20.50	10.51	0.011				
					25	12	2	20.55	10.56	0.011				
					25	24	2	20.34	10.35	0.011				
					50	0	2	20.64	10.65	0.012				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -7.84 dBi.

**LTE Band 30 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power	EIRP (dBm)	EIRP (W)
30	5	27685	2307.5	QPSK	1	0	0	20.21	22.35	0.172
					1	24	0	20.29	22.43	0.175
					1	49	0	20.13	22.27	0.169
					25	0	1	19.32	21.46	0.140
					25	12	1	19.33	21.47	0.140
					25	24	1	19.31	21.45	0.140
				16QAM	50	0	1	19.27	21.41	0.138
					1	0	1	19.39	21.53	0.142
					1	24	1	19.35	21.49	0.141
					1	49	1	19.20	21.34	0.136
					25	0	2	18.22	20.36	0.109
					25	12	2	18.43	20.57	0.114
		27710	2310.0	QPSK	25	24	2	18.16	20.30	0.107
					25	24	2	18.16	20.30	0.107
					50	0	2	18.36	20.50	0.112
					1	0	0	20.21	22.35	0.172
					1	24	0	20.29	22.43	0.175
					1	49	0	20.13	22.27	0.169
				16QAM	25	0	1	19.32	21.46	0.140
					25	12	1	19.33	21.47	0.140
					25	24	1	19.31	21.45	0.140
					50	0	1	19.27	21.41	0.138
					1	0	1	19.39	21.53	0.142
					1	24	1	19.35	21.49	0.141
		27734	2312.4	QPSK	1	49	1	19.20	21.34	0.136
					25	0	2	18.22	20.36	0.109
					25	12	2	18.43	20.57	0.114
					25	24	2	18.16	20.30	0.107
					50	0	2	18.36	20.50	0.112
					1	0	0	20.21	22.35	0.172
16QAM	1			24	0	20.29	22.43	0.175		
	1			49	0	20.13	22.27	0.169		
	25			0	1	19.32	21.46	0.140		
	25			12	1	19.33	21.47	0.140		
	25			24	1	19.31	21.45	0.140		
	50			0	1	19.27	21.41	0.138		

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 2.14 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
30	10	27710	2310.0	QPSK	1	0	0	20.24	22.38	0.173
					1	37	0	20.32	22.46	<b>0.176</b>
					1	74	0	20.16	22.30	0.170
					36	0	1	19.35	21.49	0.141
					36	18	1	19.36	21.50	0.141
					36	37	1	19.34	21.48	0.141
					75	0	1	19.30	21.44	0.139
				16QAM	1	0	1	19.42	21.56	<b>0.143</b>
					1	37	1	19.38	21.52	0.142
					1	74	1	19.23	21.37	0.137
					36	0	2	18.25	20.39	0.109
					36	18	2	18.46	20.60	0.115
					36	37	2	18.19	20.33	0.108
					75	0	2	18.39	20.53	0.113

- NOTE:
- (1) EIRP = Average power + Antenna gain.
  - (2) ERP = EIRP - 2.15.
  - (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
  - (4) The antenna gain is 2.14 dBi.

**LTE Band 41 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
41	5	39675	2498.5	QPSK	1	0	0	22.44	24.39	0.275
					1	12	0	22.62	24.57	0.286
					1	24	0	22.58	24.53	0.284
					12	0	1	21.57	23.52	0.225
					12	6	1	21.72	23.67	0.233
					12	11	1	21.67	23.62	0.230
				16QAM	25	0	1	21.67	23.62	0.230
					1	0	1	21.54	23.49	0.223
					1	12	1	21.67	23.62	0.230
					1	24	1	21.63	23.58	0.228
					12	0	2	20.57	22.52	0.179
					12	6	2	20.69	22.64	0.184
		40620	2593.0	QPSK	12	11	2	20.64	22.59	0.182
					25	0	2	20.68	22.63	0.183
					1	0	0	22.83	24.78	0.301
					1	12	0	22.93	24.88	0.308
					1	24	0	22.54	24.49	0.281
					12	0	1	21.98	23.93	0.247
				16QAM	12	6	1	22.06	24.01	0.252
					12	11	1	21.69	23.64	0.231
					25	0	1	21.73	23.68	0.233
					1	0	1	21.92	23.87	0.244
					1	12	1	22.03	23.98	0.250
					1	24	1	21.67	23.62	0.230
		41565	2687.5	QPSK	12	0	2	20.99	22.94	0.197
					12	6	2	21.01	22.96	0.198
					12	11	2	20.67	22.62	0.183
					25	0	2	20.70	22.65	0.184
					1	0	0	22.91	24.86	0.306
					1	12	0	23.06	25.01	0.317
				16QAM	1	24	0	22.84	24.79	0.301
					12	0	1	22.03	23.98	0.250
					12	6	1	22.21	24.16	0.261
					12	11	1	21.95	23.90	0.245
					25	0	1	21.98	23.93	0.247
					1	0	1	22.00	23.95	0.248
16QAM	1	12	1	22.19	24.14	0.259				
	1	24	1	21.93	23.88	0.244				
	12	0	2	21.03	22.98	0.199				
	12	6	2	21.14	23.09	0.204				
	12	11	2	20.93	22.88	0.194				
	25	0	2	20.97	22.92	0.196				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.95 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
41	10	39700	2501.0	QPSK	1	0	0	22.49	24.44	0.278
					1	24	0	22.67	24.62	0.290
					1	49	0	22.63	24.58	0.287
					25	0	1	21.62	23.57	0.228
					25	12	1	21.77	23.72	0.236
					25	24	1	21.72	23.67	0.233
				50	0	1	21.72	23.67	0.233	
				16QAM	1	0	1	21.59	23.54	0.226
					1	24	1	21.72	23.67	0.233
					1	49	1	21.68	23.63	0.231
		25	0		2	20.62	22.57	0.181		
		25	12		2	20.74	22.69	0.186		
		25	24		2	20.69	22.64	0.184		
		40620	2593.0	QPSK	50	0	2	20.73	22.68	0.185
					1	0	0	22.88	24.83	0.304
					1	24	0	22.98	24.93	0.311
					1	49	0	22.59	24.54	0.284
					25	0	1	22.03	23.98	0.250
					25	12	1	22.11	24.06	0.255
				16QAM	25	24	1	21.74	23.69	0.234
					50	0	1	21.78	23.73	0.236
					1	0	1	21.97	23.92	0.247
					1	24	1	22.08	24.03	0.253
		1	49		1	21.72	23.67	0.233		
		25	0		2	21.04	22.99	0.199		
		41540	2685.0	QPSK	25	12	2	21.06	23.01	0.200
					25	24	2	20.72	22.67	0.185
					50	0	2	20.75	22.70	0.186
					1	0	0	22.96	24.91	0.310
					1	24	0	23.11	25.06	0.321
1	49				0	22.89	24.84	0.305		
16QAM	25			0	1	22.08	24.03	0.253		
	25			12	1	22.26	24.21	0.264		
	25			24	1	22.00	23.95	0.248		
	50			0	1	22.03	23.98	0.250		
	1	0	1	22.05	24.00	0.251				
	1	24	1	22.24	24.19	0.262				
	1	49	1	21.98	23.93	0.247				
	25	0	2	21.08	23.03	0.201				
	25	12	2	21.19	23.14	0.206				
	25	24	2	20.98	22.93	0.196				
	50	0	2	21.02	22.97	0.198				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.95 dBi.



Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
41	15	39725	2503.5	QPSK	1	0	0	22.54	24.49	0.281
					1	37	0	22.72	24.67	0.293
					1	74	0	22.68	24.63	0.290
					36	0	1	21.67	23.62	0.230
					36	18	1	21.82	23.77	0.238
					36	37	1	21.77	23.72	0.236
					75	0	1	21.77	23.72	0.236
				16QAM	1	0	1	21.64	23.59	0.229
					1	37	1	21.77	23.72	0.236
					1	74	1	21.73	23.68	0.233
					36	0	2	20.67	22.62	0.183
					36	18	2	20.79	22.74	0.188
					36	37	2	20.74	22.69	0.186
					75	0	2	20.78	22.73	0.187
					75	0	2	20.78	22.73	0.187
		40620	2593.0	QPSK	1	0	0	22.93	24.88	0.308
					1	37	0	23.03	24.98	0.315
					1	74	0	22.64	24.59	0.288
					36	0	1	22.08	24.03	0.253
					36	18	1	22.16	24.11	0.258
					36	37	1	21.79	23.74	0.237
					75	0	1	21.83	23.78	0.239
				16QAM	1	0	1	22.02	23.97	0.249
					1	37	1	22.13	24.08	0.256
					1	74	1	21.77	23.72	0.236
					36	0	2	21.09	23.04	0.201
					36	18	2	21.11	23.06	0.202
					36	37	2	20.77	22.72	0.187
					75	0	2	20.80	22.75	0.188
					75	0	2	20.80	22.75	0.188
		41515	2682.5	QPSK	1	0	0	23.01	24.96	0.313
					1	37	0	23.16	25.11	0.324
					1	74	0	22.94	24.89	0.308
					36	0	1	22.13	24.08	0.256
					36	18	1	22.31	24.26	0.267
					36	37	1	22.05	24.00	0.251
					75	0	1	22.08	24.03	0.253
				16QAM	1	0	1	22.10	24.05	0.254
					1	37	1	22.29	24.24	0.265
					1	74	1	22.03	23.98	0.250
					36	0	2	21.13	23.08	0.203
					36	18	2	21.24	23.19	0.208
					36	37	2	21.03	22.98	0.199
					75	0	2	21.07	23.02	0.200
					75	0	2	21.07	23.02	0.200

## NOTE:

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.95 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)		
41	20	39750	2506.0	QPSK	1	0	0	22.31	24.26	0.267		
					1	49	0	22.29	24.24	0.265		
					1	99	0	22.14	24.09	0.256		
					50	0	1	21.42	23.37	0.217		
					50	24	1	21.33	23.28	0.213		
					50	49	1	21.32	23.27	0.212		
				16QAM	100	0	1	21.37	23.32	0.215		
					1	0	1	21.49	23.44	0.221		
					1	49	1	21.45	23.40	0.219		
					1	99	1	21.21	23.16	0.207		
					50	0	2	20.32	22.27	0.169		
					50	24	2	20.43	22.38	0.173		
		40620	2593.0	QPSK	2593.0	QPSK	50	49	2	20.17	22.12	0.163
							100	0	2	20.46	22.41	0.174
							1	0	0	22.49	24.44	0.278
							1	49	0	22.23	24.18	0.262
							1	99	0	22.17	24.12	0.258
							50	0	1	21.60	23.55	0.226
				16QAM	50	24	1	21.27	23.22	0.210		
					50	49	1	21.35	23.30	0.214		
					100	0	1	21.55	23.50	0.224		
					1	0	1	21.67	23.62	0.230		
					1	49	1	21.63	23.58	0.228		
					1	99	1	21.24	23.19	0.208		
		41490	2680.0	QPSK	2680.0	QPSK	50	0	2	20.50	22.45	0.176
							50	24	2	20.37	22.32	0.171
							50	49	2	20.20	22.15	0.164
							100	0	2	20.64	22.59	0.182
							1	0	0	22.35	24.30	0.269
							1	49	0	22.40	24.35	0.272
				16QAM	1	99	0	22.13	24.08	0.256		
					50	0	1	21.46	23.41	0.219		
					50	24	1	21.44	23.39	0.218		
					50	49	1	21.31	23.26	0.212		
					100	0	1	21.41	23.36	0.217		
					1	0	1	21.53	23.48	0.223		
16QAM	1	49	1	21.49	23.44	0.221						
	1	99	1	21.20	23.15	0.207						
	50	0	2	20.36	22.31	0.170						
	50	24	2	20.54	22.49	0.177						
	50	49	2	20.16	22.11	0.163						
	100	0	2	20.50	22.45	0.176						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is 1.95 dBi.

**LTE Band 66 Power:**

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)		
66	1.4	131979	1710.7	QPSK	1	0	0	22.51	22.29	0.169		
					1	2	0	22.38	22.16	0.164		
					1	5	0	22.29	22.07	0.161		
					3	0	0	22.51	22.29	0.169		
					3	1	0	22.38	22.16	0.164		
					3	2	0	22.29	22.07	0.161		
		16QAM	6	0	1	21.57	21.35	0.136				
			1	0	1	21.69	21.47	0.140				
			1	2	1	21.65	21.43	0.139				
			1	5	1	21.36	21.14	0.130				
			3	0	1	21.69	21.47	0.140				
			3	1	1	21.65	21.43	0.139				
		132322	1745.0	QPSK	1745.0	QPSK	3	2	1	21.36	21.14	0.130
							6	0	2	20.66	20.44	0.111
							1	0	0	22.69	22.47	0.177
							1	2	0	22.57	22.35	0.172
							1	5	0	22.48	22.26	0.168
							3	0	0	22.69	22.47	0.177
	16QAM	1745.0	16QAM	1745.0	16QAM	3	1	0	22.57	22.35	0.172	
						3	2	0	22.48	22.26	0.168	
						6	0	1	21.75	21.53	0.142	
						1	0	1	21.87	21.65	0.146	
						1	2	1	21.83	21.61	0.145	
						1	5	1	21.55	21.33	0.136	
	132664	1779.2	QPSK	1779.2	QPSK	3	0	1	21.87	21.65	0.146	
						3	1	1	21.83	21.61	0.145	
						3	2	1	21.55	21.33	0.136	
						6	0	2	20.50	20.28	0.107	
						1	0	0	22.56	22.34	0.171	
						1	2	0	22.47	22.25	0.168	
	16QAM	1779.2	16QAM	1779.2	16QAM	1	5	0	22.34	22.12	0.163	
						3	0	0	22.56	22.34	0.171	
						3	1	0	22.47	22.25	0.168	
						3	2	0	22.34	22.12	0.163	
						6	0	1	21.62	21.40	0.138	
						1	0	1	21.74	21.52	0.142	
					1	2	1	21.70	21.48	0.141		
					1	5	1	21.41	21.19	0.132		
					3	0	1	21.74	21.52	0.142		
					3	1	1	21.70	21.48	0.141		
					3	2	1	21.41	21.19	0.132		
					6	0	2	20.60	20.38	0.109		

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
66	3	131987	1711.5	QPSK	1	0	0	22.56	22.34	0.171
					1	7	0	22.43	22.21	0.166
					1	14	0	22.34	22.12	0.163
					8	0	1	21.67	21.45	0.140
					8	4	1	21.47	21.25	0.133
					8	7	1	21.52	21.30	0.135
				15	0	1	21.62	21.40	0.138	
				16QAM	1	0	1	21.74	21.52	0.142
					1	7	1	21.70	21.48	0.141
		1	14		1	21.41	21.19	0.132		
		8	0		2	20.57	20.35	0.108		
		8	4		2	20.57	20.35	0.108		
		8	7		2	20.37	20.15	0.104		
		132322	1745.0	QPSK	1	0	0	22.74	22.52	0.179
					1	7	0	22.62	22.40	0.174
					1	14	0	22.53	22.31	0.170
					8	0	1	21.85	21.63	0.146
					8	4	1	21.66	21.44	0.139
	8				7	1	21.71	21.49	0.141	
	15			0	1	21.80	21.58	0.144		
	16QAM			1	0	1	21.92	21.70	0.148	
				1	7	1	21.88	21.66	0.147	
			1	14	1	21.60	21.38	0.137		
			8	0	2	20.75	20.53	0.113		
			8	4	2	20.76	20.54	0.113		
			8	7	2	20.56	20.34	0.108		
	132656		1778.4	QPSK	1	0	0	22.61	22.39	0.173
					1	7	0	22.52	22.30	0.170
					1	14	0	22.39	22.17	0.165
					8	0	1	21.72	21.50	0.141
					8	4	1	21.56	21.34	0.136
		8			7	1	21.57	21.35	0.136	
		15		0	1	21.67	21.45	0.140		
		16QAM		1	0	1	21.79	21.57	0.144	
				1	7	1	21.75	21.53	0.142	
			1	14	1	21.46	21.24	0.133		
8			0	2	20.62	20.40	0.110			
8			4	2	20.66	20.44	0.111			
8			7	2	20.42	20.20	0.105			
15		0	2	21.10	20.88	0.122				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)				
66	5	131997	1712.5	QPSK	1	0	0	22.61	22.39	0.173				
					1	12	0	22.48	22.26	0.168				
					1	24	0	22.39	22.17	0.165				
					12	0	1	21.72	21.50	0.141				
					12	6	1	21.52	21.30	0.135				
					12	11	1	21.57	21.35	0.136				
				16QAM	25	0	1	21.67	21.45	0.140				
					1	0	1	21.79	21.57	0.144				
					1	12	1	21.75	21.53	0.142				
					1	24	1	21.46	21.24	0.133				
					12	0	2	20.62	20.40	0.110				
					12	6	2	20.62	20.40	0.110				
		132322	1745.0	QPSK	1745.0	QPSK	12	11	2	20.42	20.20	0.105		
							25	0	2	20.76	20.54	0.113		
							1	0	0	22.79	22.57	0.181		
							1	12	0	22.67	22.45	0.176		
							1	24	0	22.58	22.36	0.172		
							12	0	1	21.90	21.68	0.147		
				16QAM	1745.0	16QAM	1745.0	16QAM	12	6	1	21.71	21.49	0.141
									12	11	1	21.76	21.54	0.143
									25	0	1	21.85	21.63	0.146
									1	0	1	21.97	21.75	0.150
									1	12	1	21.93	21.71	0.148
									1	24	1	21.65	21.43	0.139
		132647	1777.5	QPSK	1777.5	QPSK	12	0	2	20.80	20.58	0.114		
							12	6	2	20.81	20.59	0.115		
							12	11	2	20.61	20.39	0.109		
							25	0	2	20.94	20.72	0.118		
							1	0	0	22.66	22.44	0.175		
							1	12	0	22.57	22.35	0.172		
				16QAM	1777.5	16QAM	1777.5	16QAM	1	24	0	22.44	22.22	0.167
									12	0	1	21.77	21.55	0.143
									12	6	1	21.61	21.39	0.138
									12	11	1	21.62	21.40	0.138
									25	0	1	21.72	21.50	0.141
									1	0	1	21.84	21.62	0.145
QPSK	1777.5	QPSK	1777.5	QPSK	1	12	1	21.80	21.58	0.144				
					1	24	1	21.51	21.29	0.135				
					12	0	2	20.67	20.45	0.111				
					12	6	2	20.71	20.49	0.112				
					12	11	2	20.47	20.25	0.106				
					25	0	2	20.81	20.59	0.115				

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
66	10	132022	1715.0	QPSK	1	0	0	22.66	22.44	0.175
					1	24	0	22.53	22.31	0.170
					1	49	0	22.44	22.22	0.167
					25	0	1	21.77	21.55	0.143
					25	12	1	21.57	21.35	0.136
					25	24	1	21.62	21.40	0.138
				50	0	1	21.72	21.50	0.141	
				16QAM	1	0	1	21.84	21.62	0.145
					1	24	1	21.80	21.58	0.144
					1	49	1	21.51	21.29	0.135
					25	0	2	20.67	20.45	0.111
					25	12	2	20.67	20.45	0.111
		25	24		2	20.47	20.25	0.106		
		132322	1745.0	QPSK	1	0	0	22.84	22.62	0.183
					1	24	0	22.72	22.50	0.178
					1	49	0	22.63	22.41	0.174
					25	0	1	21.95	21.73	0.149
					25	12	1	21.76	21.54	0.143
					25	24	1	21.81	21.59	0.144
				50	0	1	21.90	21.68	0.147	
				16QAM	1	0	1	22.02	21.80	0.151
					1	24	1	21.98	21.76	0.150
					1	49	1	21.70	21.48	0.141
					25	0	2	20.85	20.63	0.116
					25	12	2	20.86	20.64	0.116
		25	24		2	20.66	20.44	0.111		
		132621	1775.0	QPSK	50	0	2	20.99	20.77	0.119
					1	0	0	22.71	22.49	0.177
					1	24	0	22.62	22.40	0.174
					1	49	0	22.49	22.27	0.169
					25	0	1	21.82	21.60	0.145
					25	12	1	21.66	21.44	0.139
				25	24	1	21.67	21.45	0.140	
				50	0	1	21.77	21.55	0.143	
				16QAM	1	0	1	21.89	21.67	0.147
					1	24	1	21.85	21.63	0.146
1	49				1	21.56	21.34	0.136		
25	0				2	20.72	20.50	0.112		
25	12	2	20.76		20.54	0.113				
25	24	2	20.52		20.30	0.107				
50	0	2	20.86	20.64	0.116					

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)		
66	15	132047	1717.5	QPSK	1	0	0	22.71	22.49	0.177		
					1	37	0	22.58	22.36	0.172		
					1	74	0	22.49	22.27	0.169		
					36	0	1	21.82	21.60	0.145		
					36	18	1	21.62	21.40	0.138		
					36	35	1	21.67	21.45	0.140		
				16QAM	75	0	1	21.77	21.55	0.143		
					1	0	1	21.89	21.67	0.147		
					1	37	1	21.85	21.63	0.146		
					1	74	1	21.56	21.34	0.136		
					36	0	2	20.72	20.50	0.112		
					36	18	2	20.72	20.50	0.112		
		132322	1745.0	QPSK	1745.0	QPSK	36	35	2	20.52	20.30	0.107
							75	0	2	20.86	20.64	0.116
							1	0	0	22.89	22.67	0.185
							1	37	0	22.77	22.55	0.180
							1	74	0	22.68	22.46	0.176
							36	0	1	22.00	21.78	0.151
				16QAM	36	18	1	21.81	21.59	0.144		
					36	35	1	21.86	21.64	0.146		
					75	0	1	21.95	21.73	0.149		
					1	0	1	22.07	21.85	0.153		
					1	37	1	22.03	21.81	0.152		
					1	74	1	21.75	21.53	0.142		
		132597	1772.5	QPSK	1772.5	QPSK	36	0	2	20.90	20.68	0.117
							36	18	2	20.91	20.69	0.117
							36	35	2	20.71	20.49	0.112
							75	0	2	21.04	20.82	0.121
							1	0	0	22.76	22.54	0.179
							1	37	0	22.67	22.45	0.176
				16QAM	1	74	0	22.54	22.32	0.171		
					36	0	1	21.87	21.65	0.146		
					36	18	1	21.71	21.49	0.141		
					36	35	1	21.72	21.50	0.141		
					75	0	1	21.82	21.60	0.145		
					1	0	1	21.94	21.72	0.149		
16QAM	1	37	1	21.90	21.68	0.147						
	1	74	1	21.61	21.39	0.138						
	36	0	2	20.77	20.55	0.114						
	36	18	2	20.81	20.59	0.115						
	36	35	2	20.57	20.35	0.108						
	75	0	2	20.91	20.69	0.117						

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP (dBm)	EIRP (W)
66	20	132072	1720.0	QPSK	1	0	0	22.76	22.54	0.179
					1	49	0	22.63	22.41	0.174
					1	99	0	22.54	22.32	0.171
					50	0	1	21.87	21.65	0.146
					50	24	1	21.67	21.45	0.140
					50	49	1	21.72	21.50	0.141
				100	0	1	21.82	21.60	0.145	
				1	0	1	21.94	21.72	0.149	
				1	49	1	21.90	21.68	0.147	
				1	99	1	21.61	21.39	0.138	
				50	0	2	20.77	20.55	0.114	
				50	24	2	20.77	20.55	0.114	
		50	49	2	20.57	20.35	0.108			
		100	0	2	20.91	20.69	0.117			
		1	0	0	22.94	22.72	<b>0.187</b>			
		1	49	0	22.82	22.60	0.182			
		1	99	0	22.73	22.51	0.178			
		50	0	1	22.05	21.83	0.152			
		50	24	1	21.86	21.64	0.146			
		50	49	1	21.91	21.69	0.148			
		100	0	1	22.00	21.78	0.151			
		1	0	1	22.12	21.90	<b>0.155</b>			
		1	49	1	22.08	21.86	0.153			
		1	99	1	21.80	21.58	0.144			
		50	0	2	20.95	20.73	0.118			
		50	24	2	20.96	20.74	0.119			
		50	49	2	20.76	20.54	0.113			
		100	0	2	21.09	20.87	0.122			
		1	0	0	22.81	22.59	0.182			
		1	49	0	22.72	22.50	0.178			
		1	99	0	22.59	22.37	0.173			
		50	0	1	21.92	21.70	0.148			
		50	24	1	21.76	21.54	0.143			
		50	49	1	21.77	21.55	0.143			
		100	0	1	21.87	21.65	0.146			
		1	0	1	21.99	21.77	0.150			
1	49	1	21.95	21.73	0.149					
1	99	1	21.66	21.44	0.139					
50	0	2	20.82	20.60	0.115					
50	24	2	20.86	20.64	0.116					
50	49	2	20.62	20.40	0.110					
100	0	2	20.96	20.74	0.119					

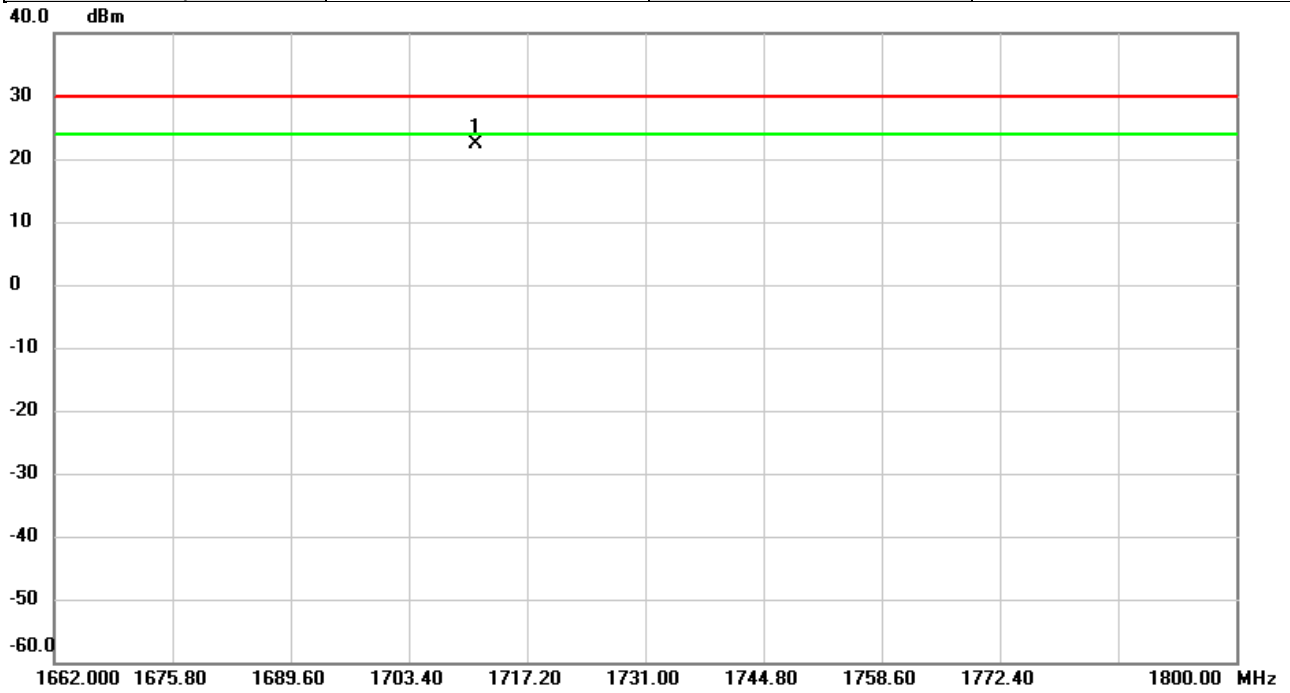
**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The antenna gain is -0.22 dBi.



**Radiated EIRP Power:**

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1537	Polarization	Vertical
Temp	21°C	Hum.	68%

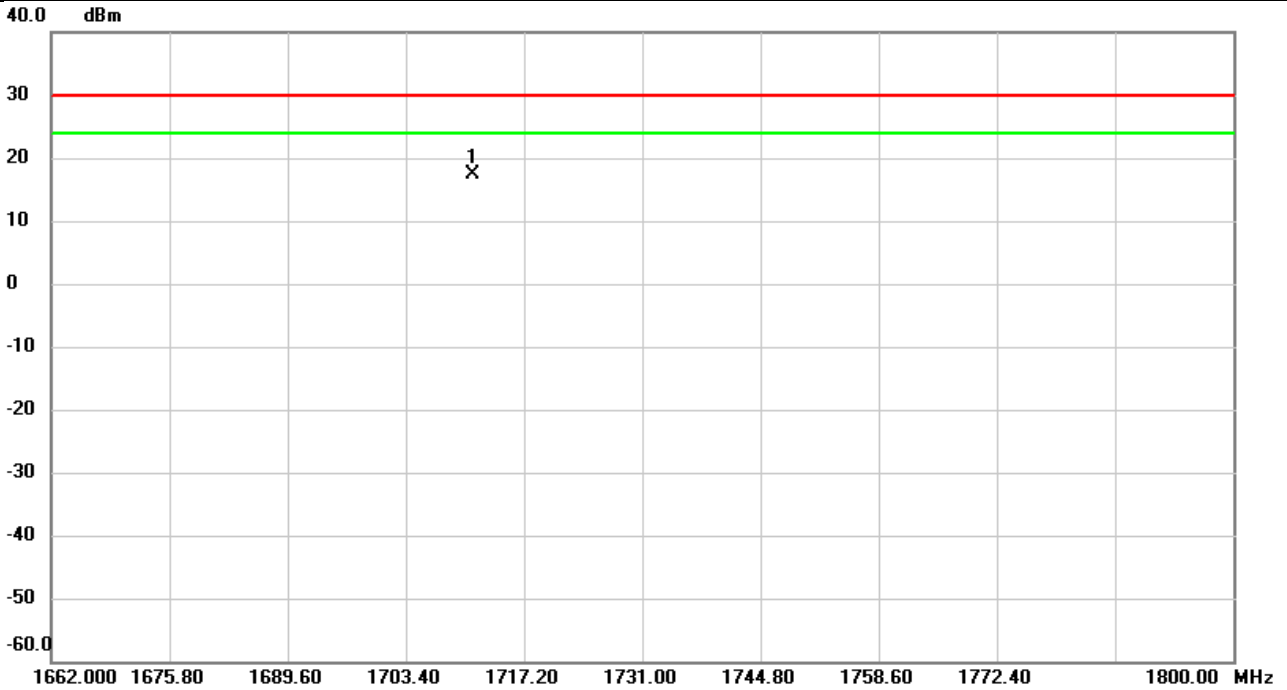


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	1711.197	-17.13	39.47	22.34	30.00	-7.66	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1537	Polarization	Horizontal
Temp	21°C	Hum.	68%

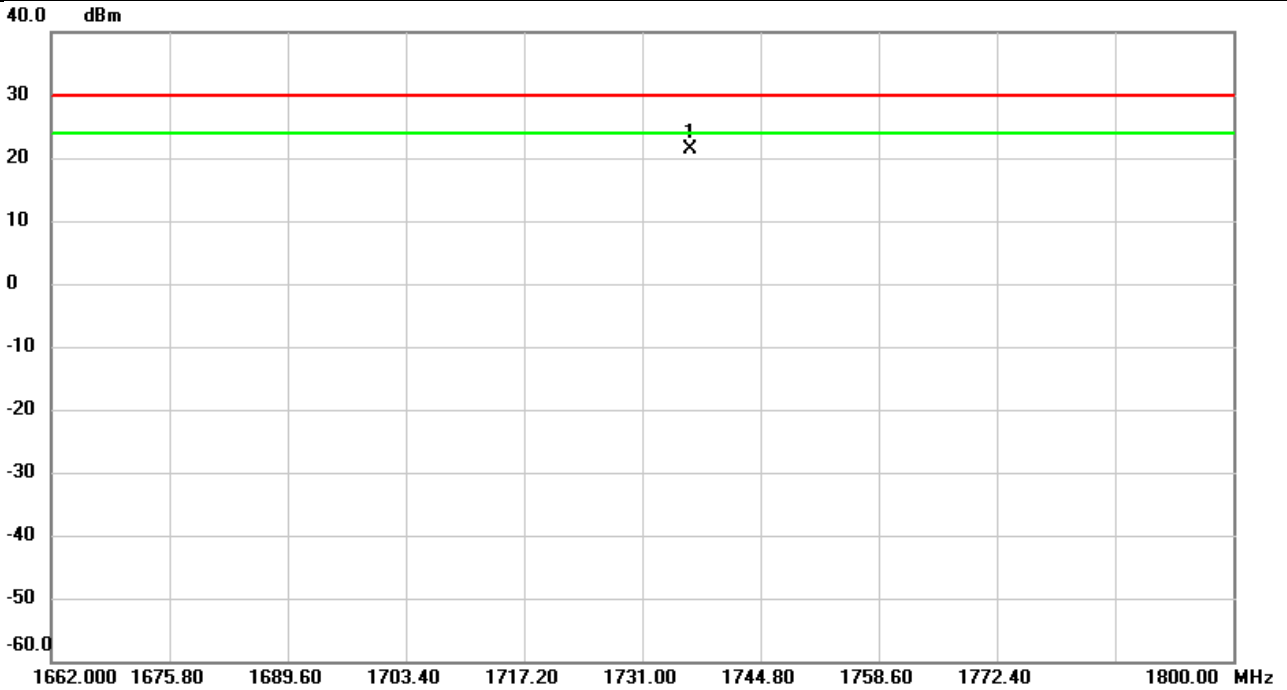


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1711.211	-22.85	40.11	17.26	30.00	-12.74	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1652	Polarization	Vertical
Temp	21°C	Hum.	68%

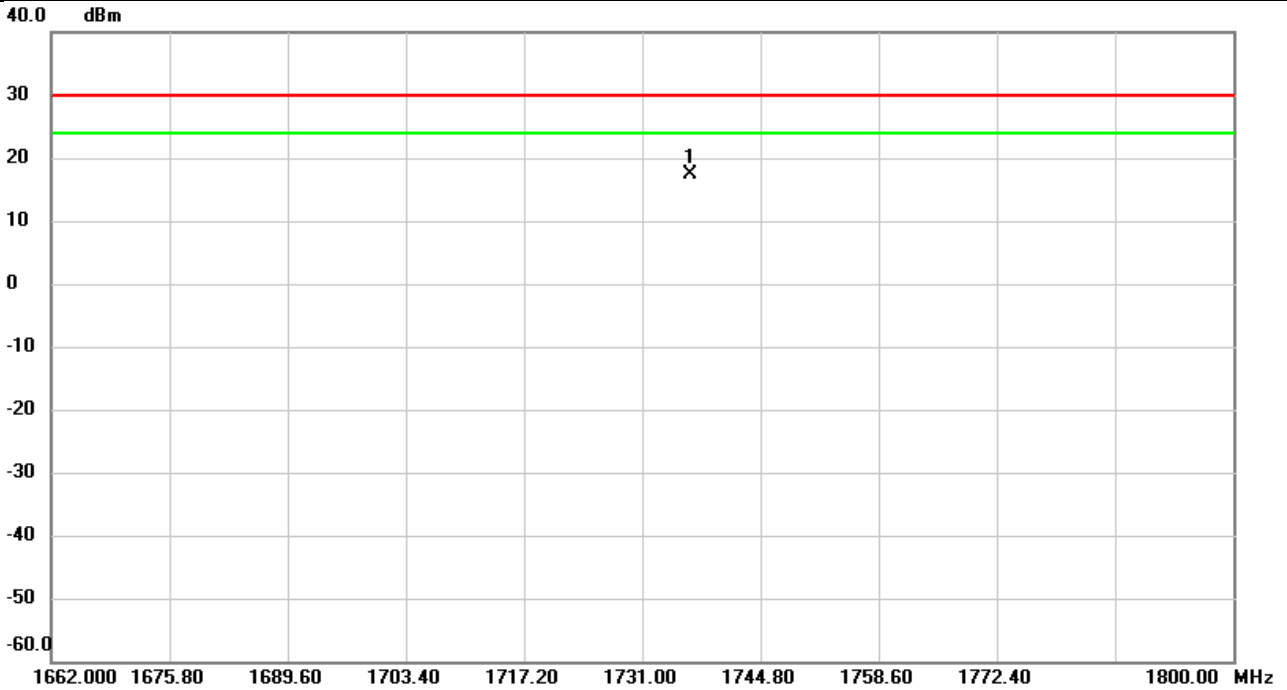


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.672	-18.25	39.58	21.33	30.00	-8.67	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1652	Polarization	Horizontal
Temp	21°C	Hum.	68%

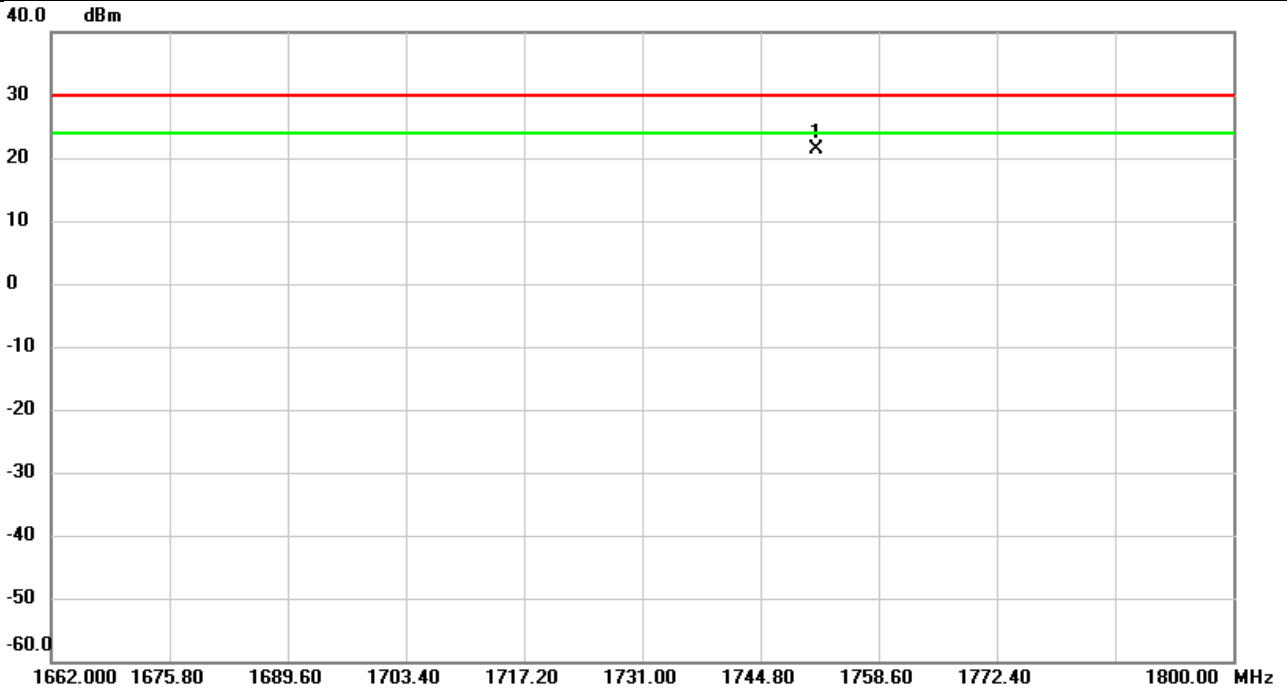


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.543	-22.75	40.20	17.45	30.00	-12.55	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1738	Polarization	Vertical
Temp	21°C	Hum.	68%

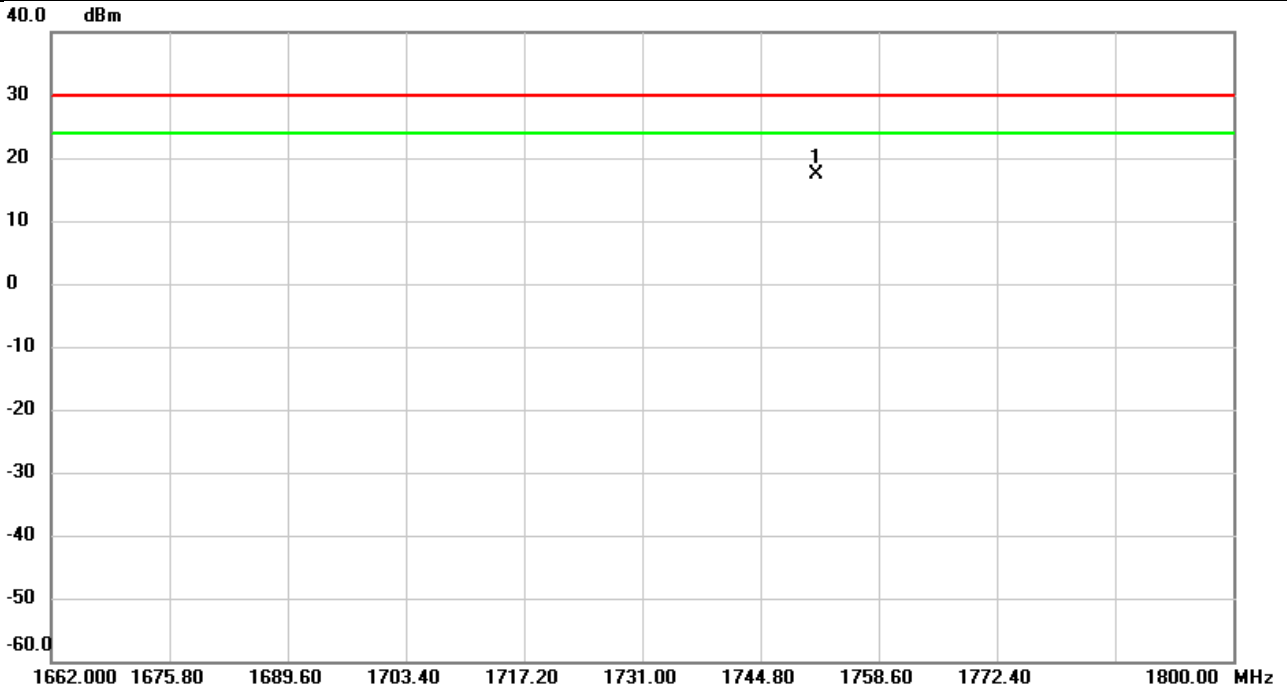


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1751.396	-18.16	39.65	21.49	30.00	-8.51	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1738	Polarization	Horizontal
Temp	21°C	Hum.	68%

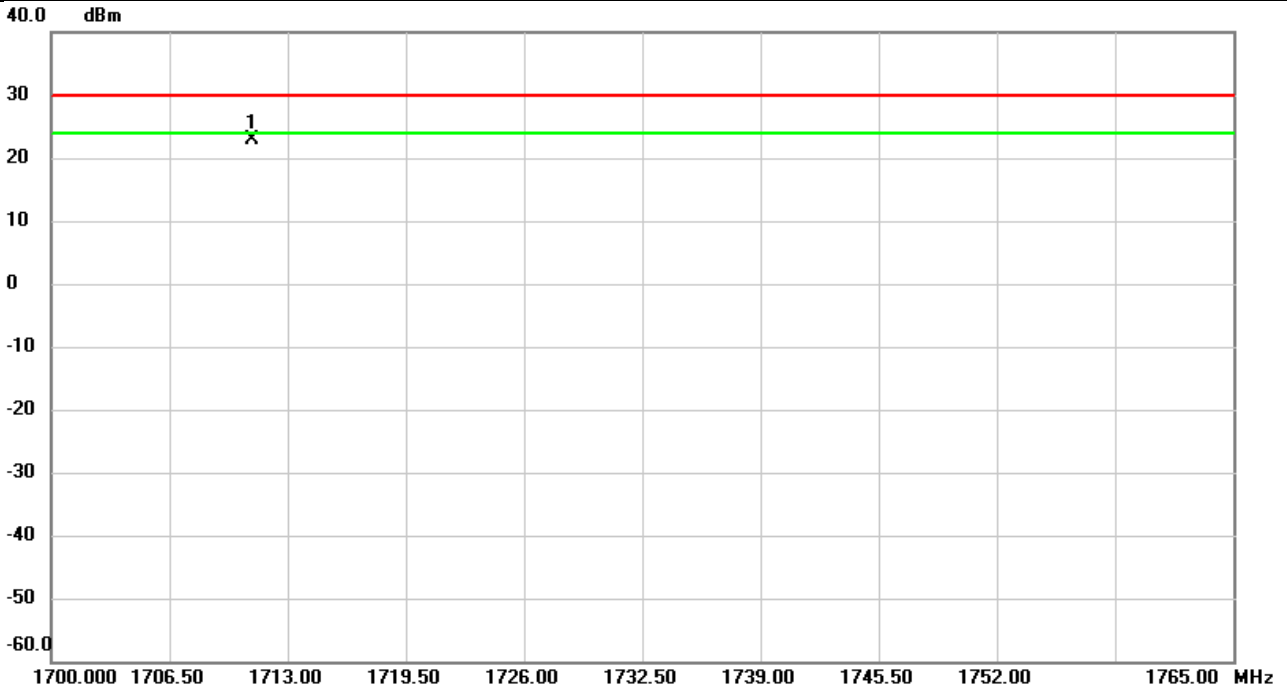


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1751.341	-22.86	40.25	17.39	30.00	-12.61	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20050	Polarization	Vertical
Temp	21°C	Hum.	68%

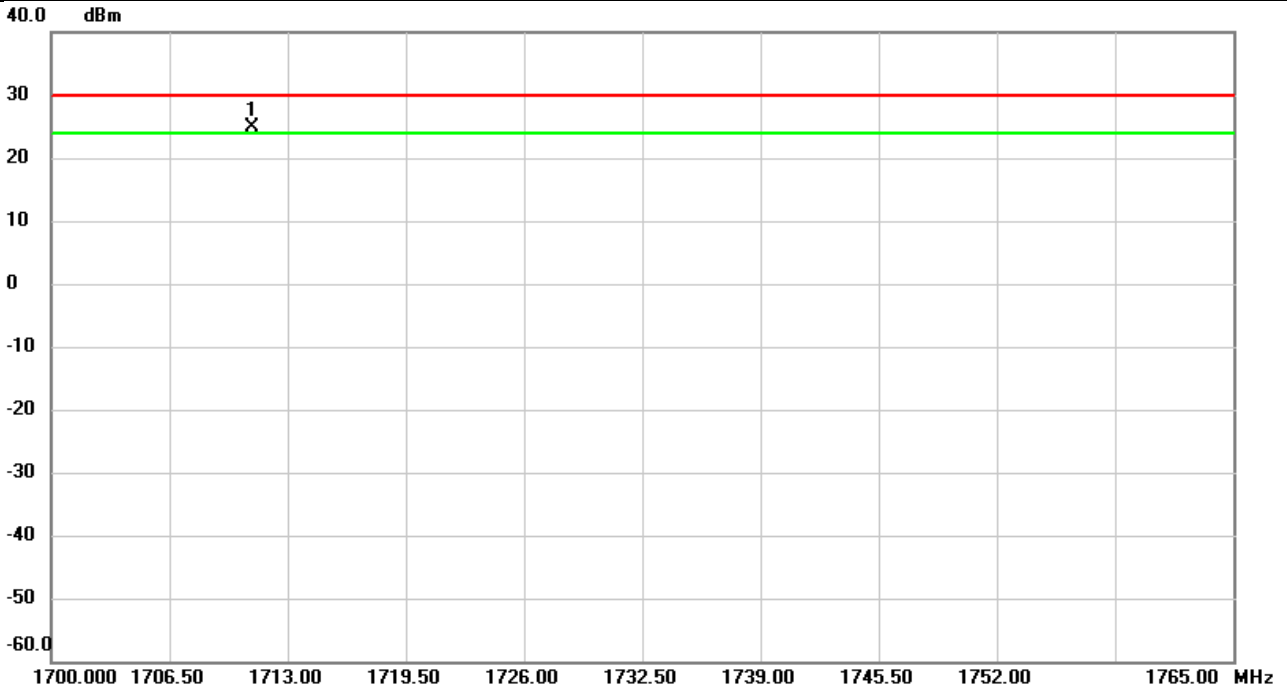


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1711.085	-16.61	39.47	22.86	30.00	-7.14	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20050	Polarization	Horizontal
Temp	21°C	Hum.	68%



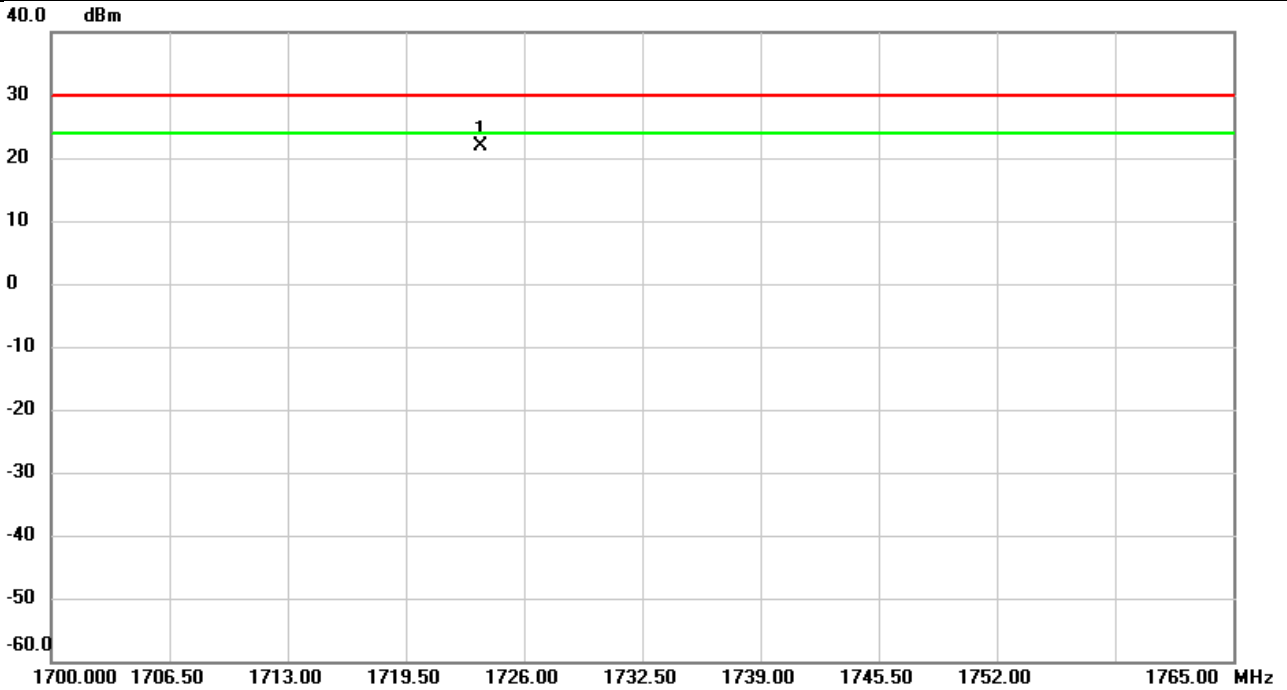
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1711.063	-15.27	40.11	24.84	30.00	-5.16	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20175	Polarization	Vertical
Temp	21°C	Hum.	68%

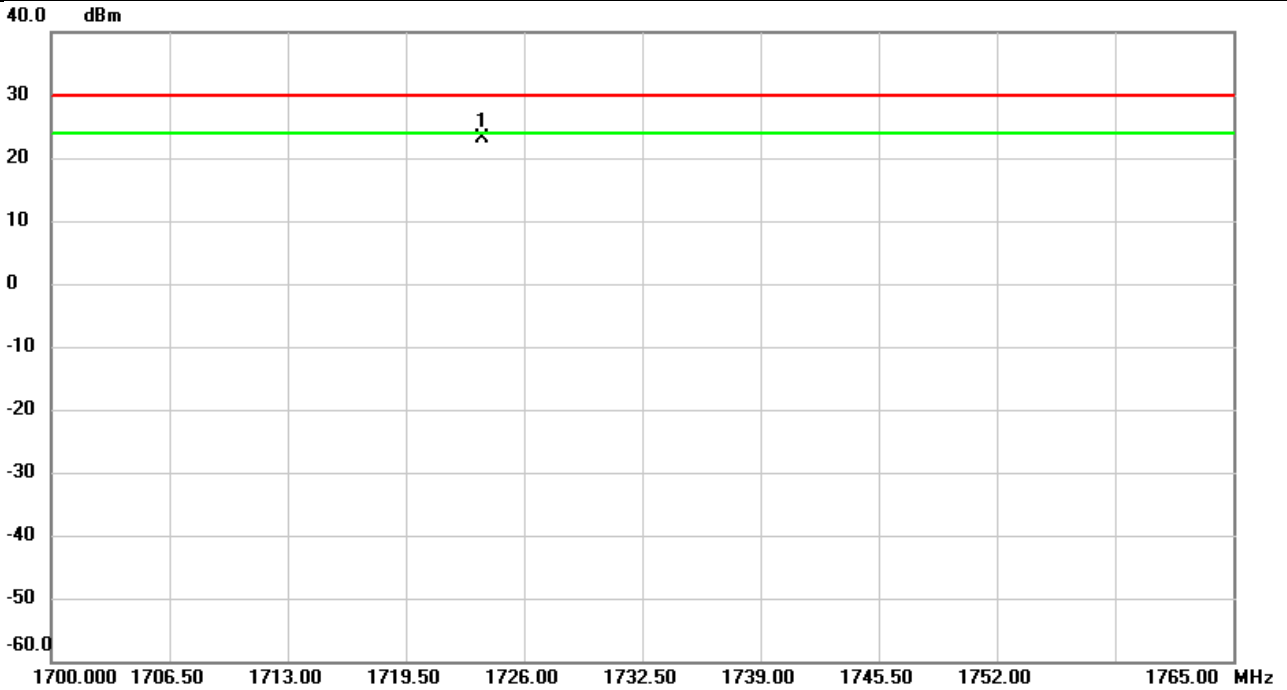


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1723.584	-17.58	39.53	21.95	30.00	-8.05	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20175	Polarization	Horizontal
Temp	21°C	Hum.	68%

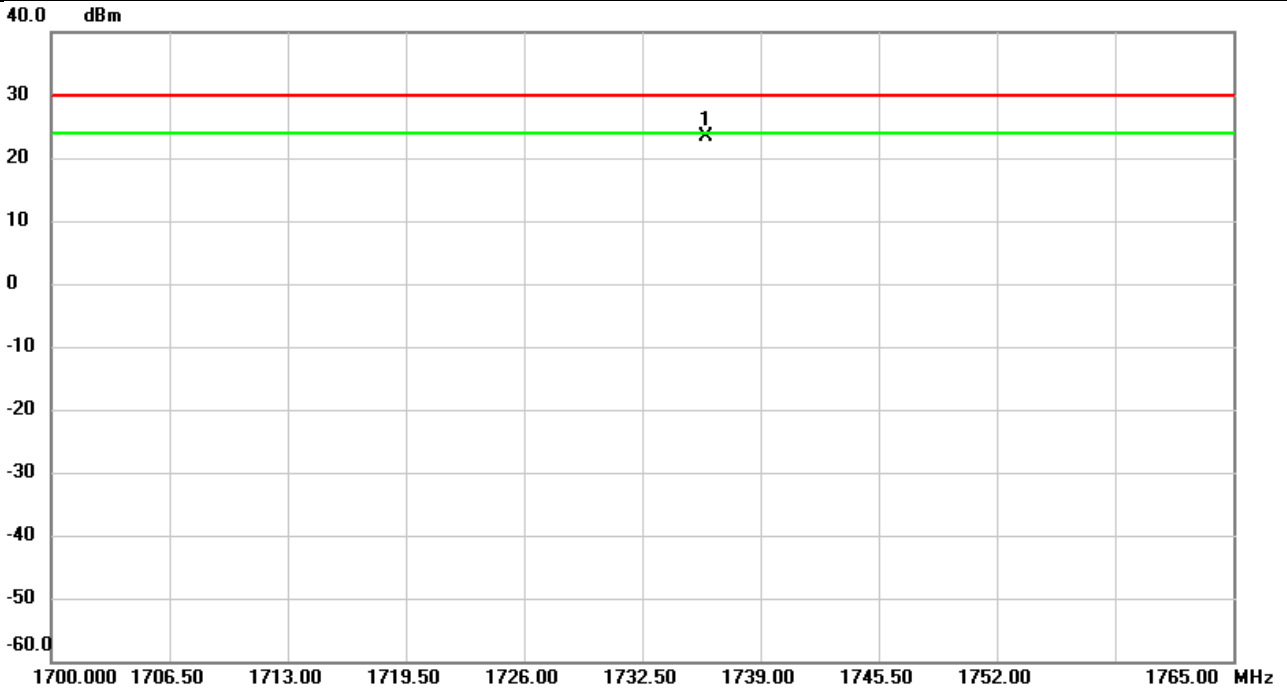


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1723.669	-16.91	40.15	23.24	30.00	-6.76	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20300	Polarization	Vertical
Temp	21°C	Hum.	68%

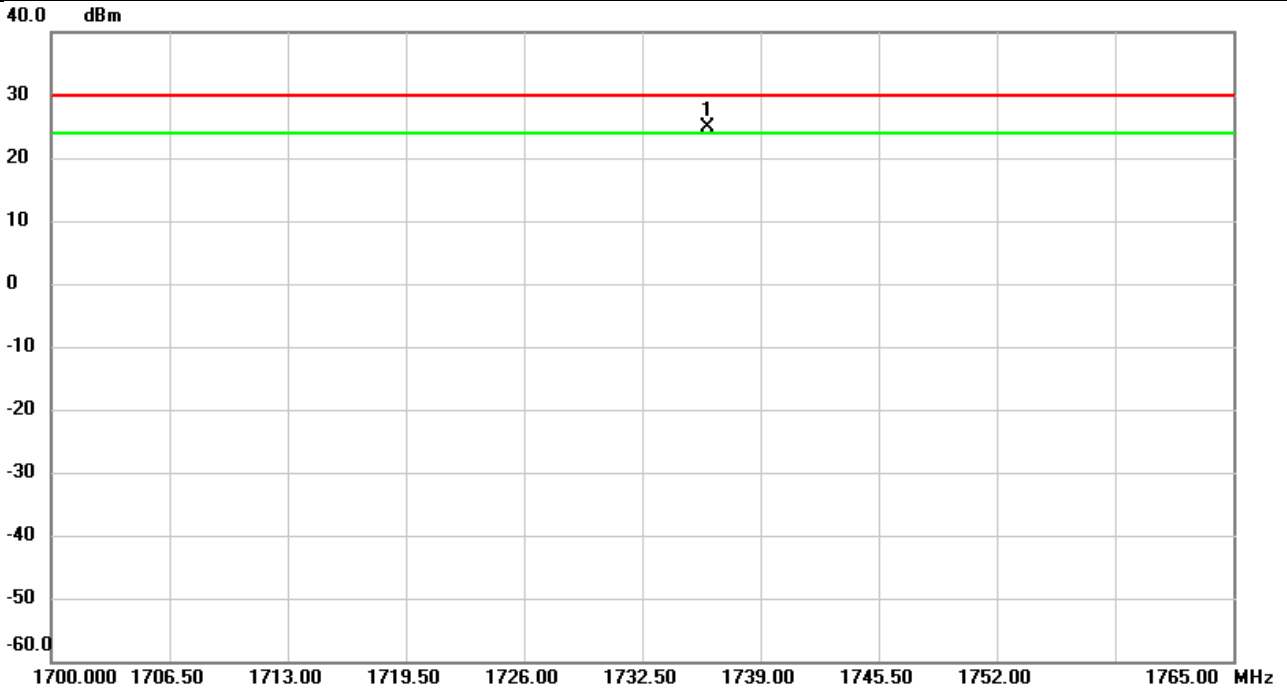


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.019	-16.31	39.58	23.27	30.00	-6.73	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20300	Polarization	Horizontal
Temp	21°C	Hum.	68%

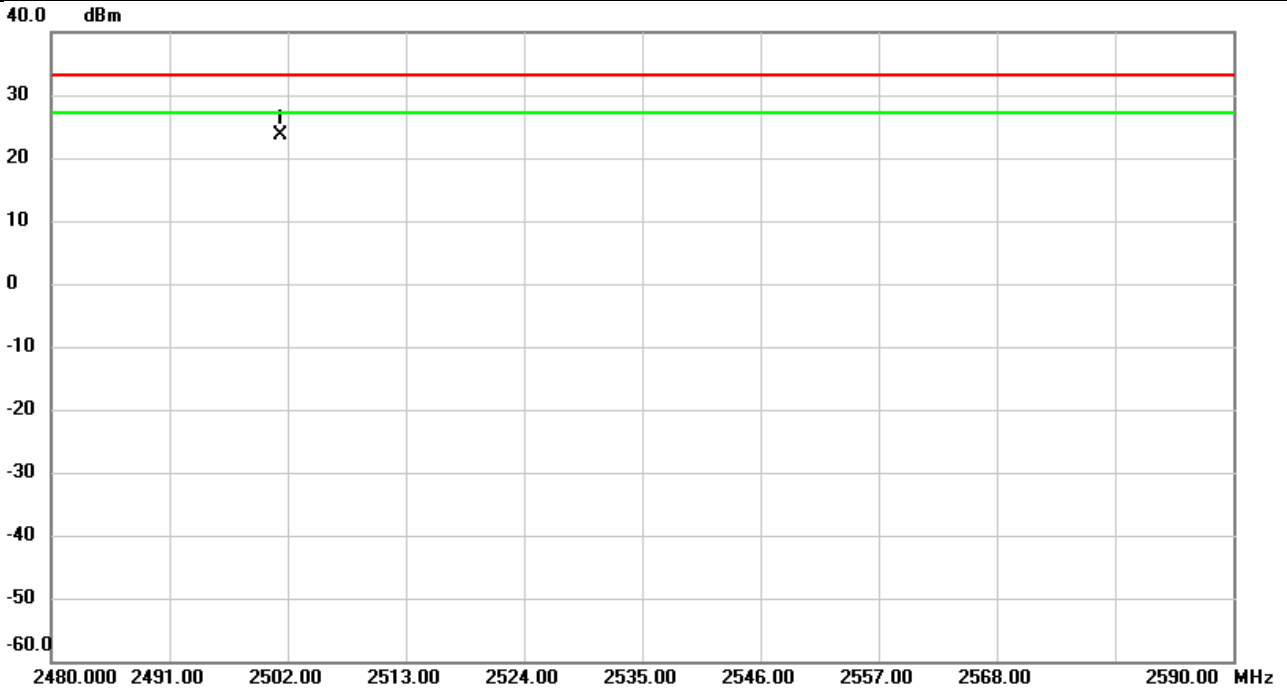


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.131	-15.31	40.20	24.89	30.00	-5.11	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH20850	Polarization	Vertical
Temp	21°C	Hum.	68%

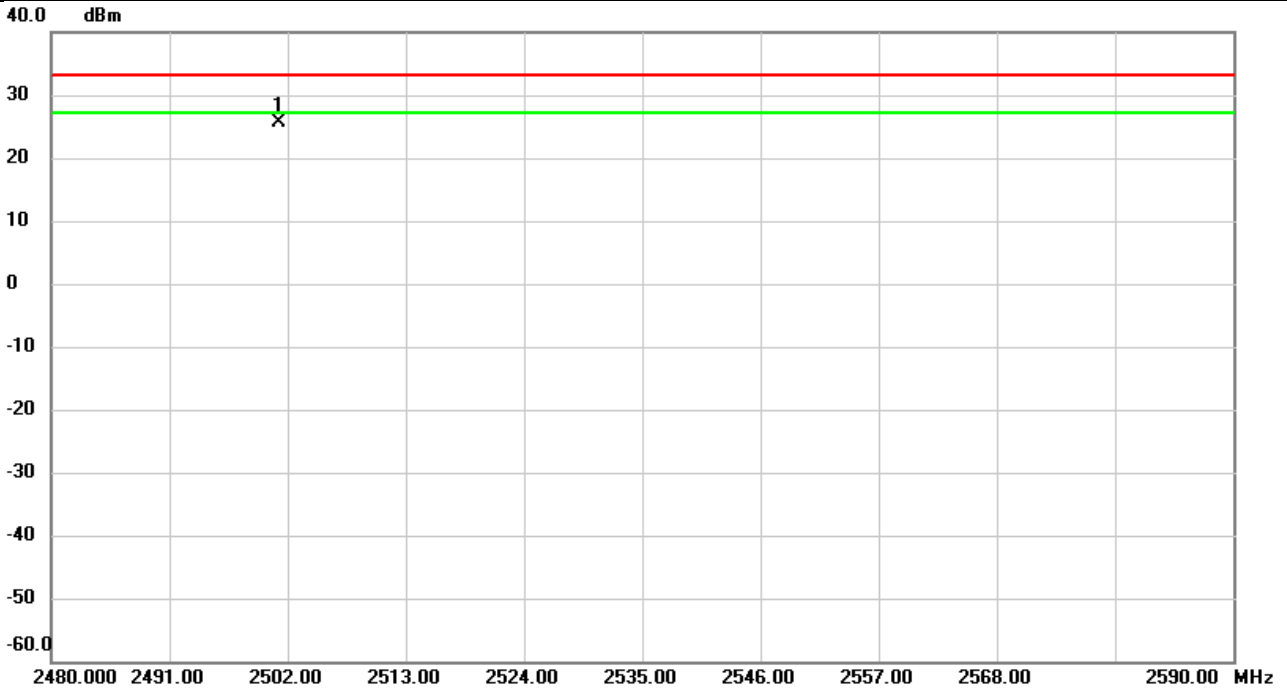


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2501.267	-18.47	42.09	23.62	33.01	-9.39	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH20850	Polarization	Horizontal
Temp	21°C	Hum.	68%

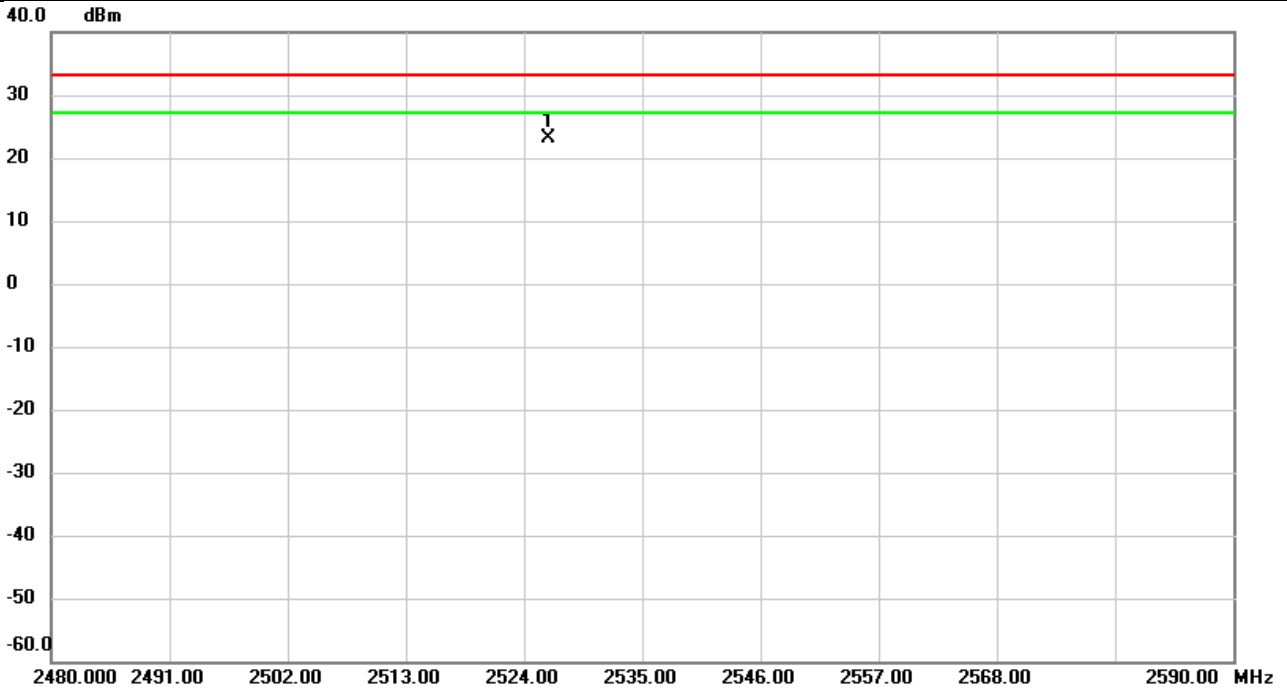


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2501.245	-16.20	41.83	25.63	33.01	-7.38	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21100	Polarization	Vertical
Temp	21°C	Hum.	68%

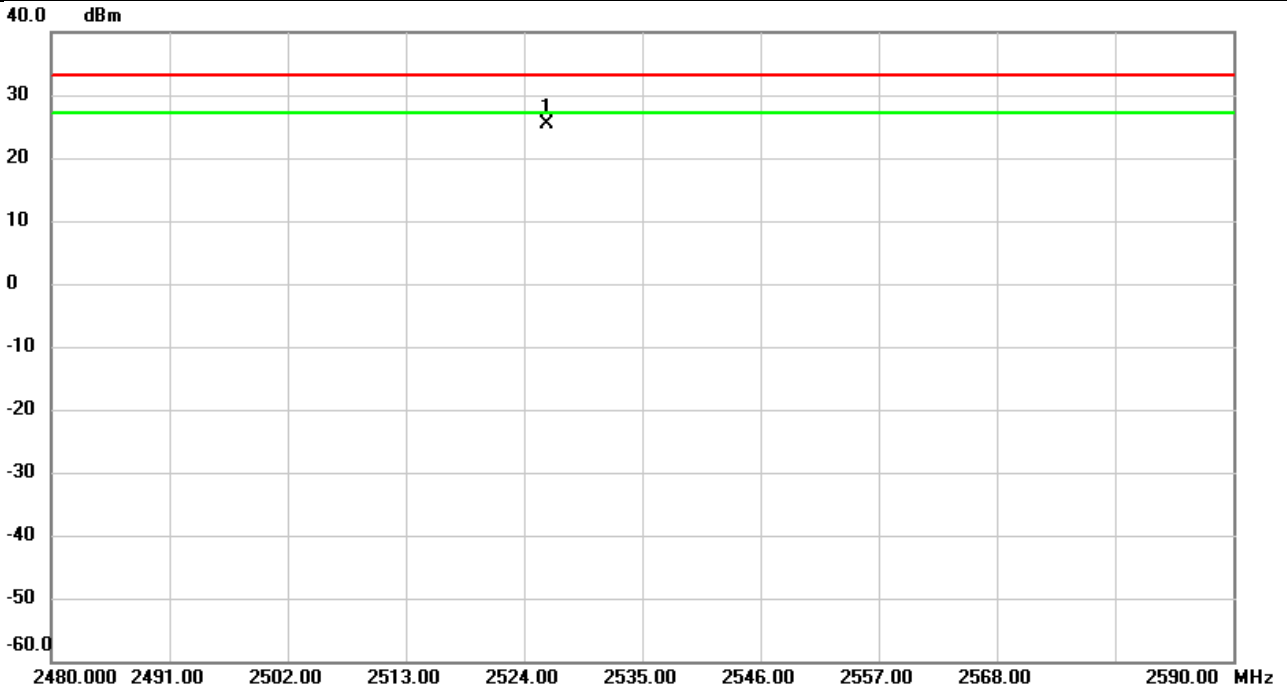


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2526.237	-18.89	42.10	23.21	33.01	-9.80	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21100	Polarization	Horizontal
Temp	21°C	Hum.	68%



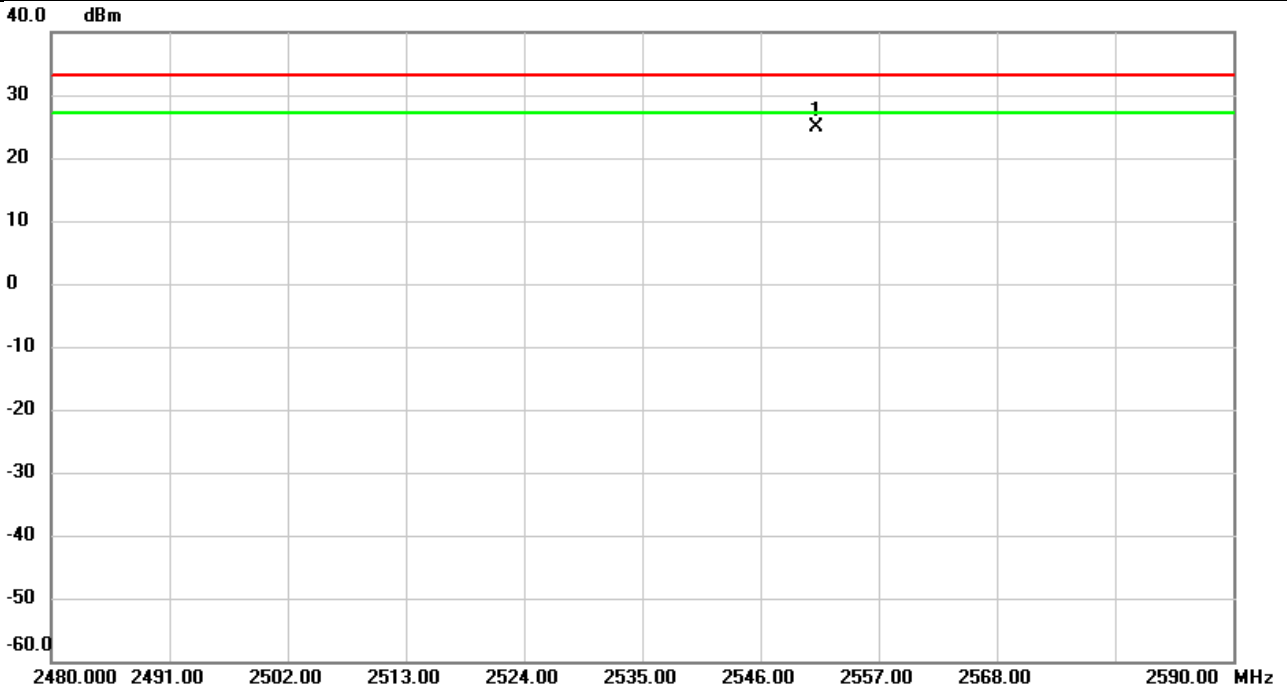
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2526.200	-16.58	41.94	25.36	33.01	-7.65	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21350	Polarization	Vertical
Temp	21°C	Hum.	68%

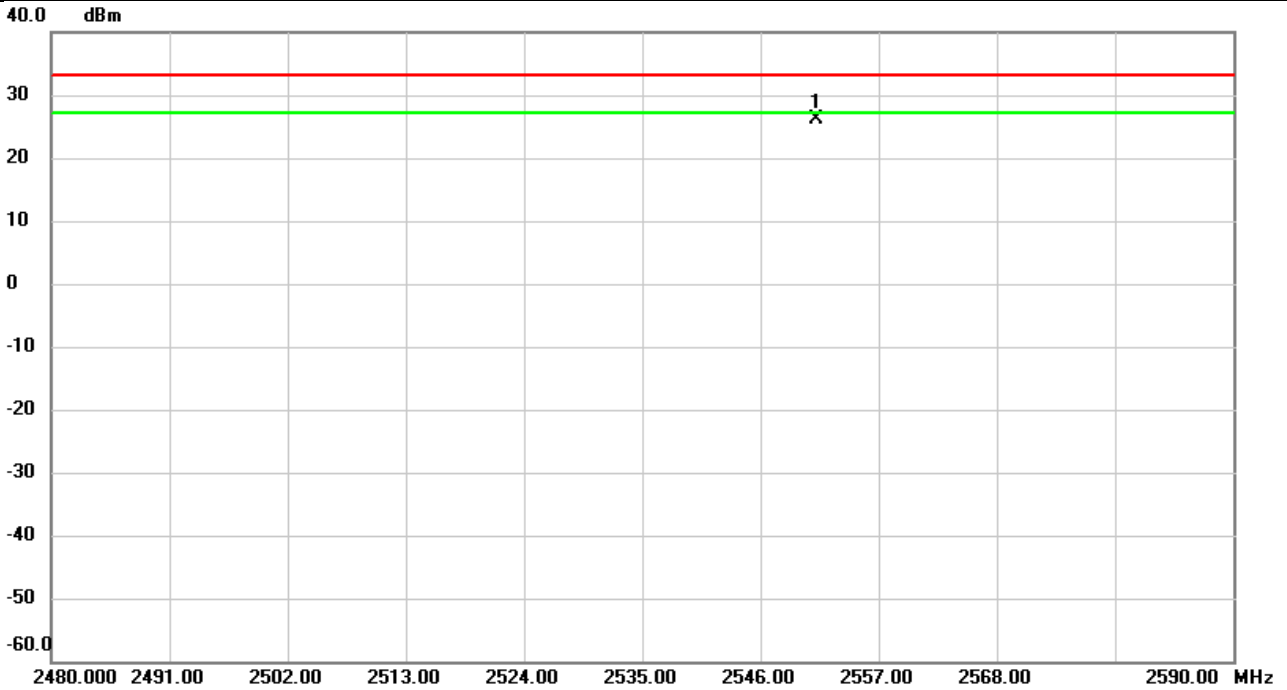


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2551.192	-17.31	42.12	24.81	33.01	-8.20	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21350	Polarization	Horizontal
Temp	21°C	Hum.	68%

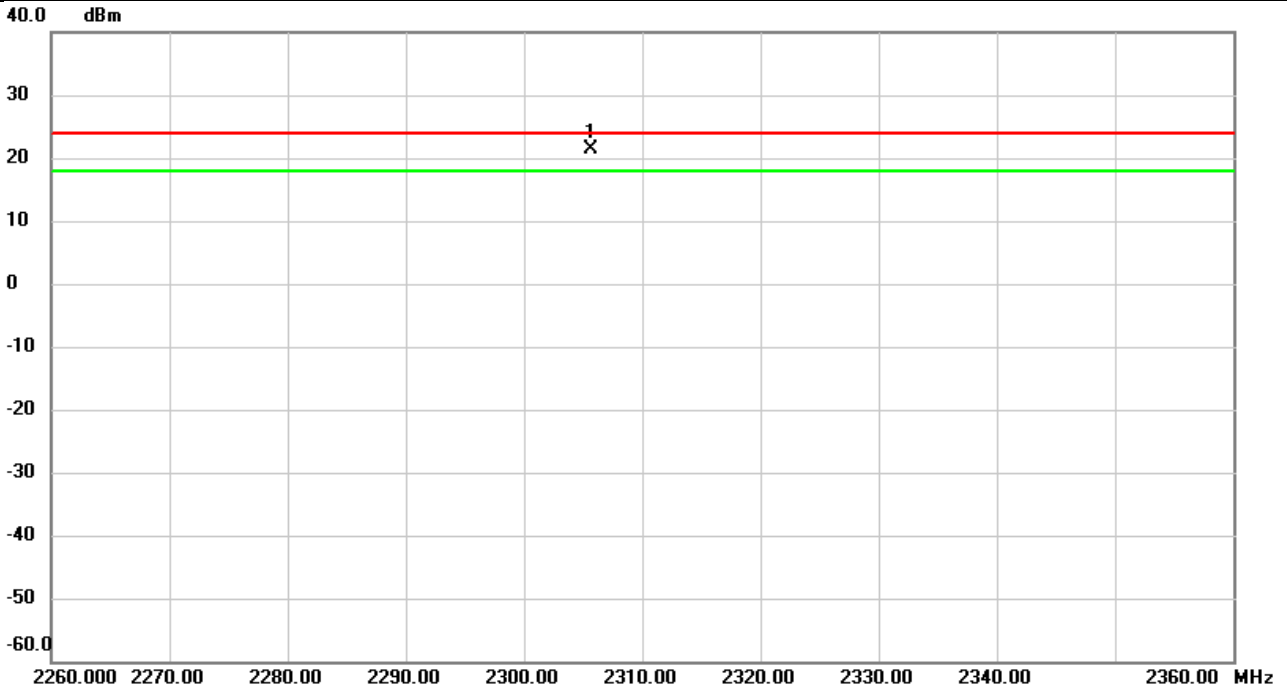


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2551.265	-15.94	42.06	26.12	33.01	-6.89	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/29
Test Channel	CH27710	Polarization	Vertical
Temp	22°C	Hum.	67%

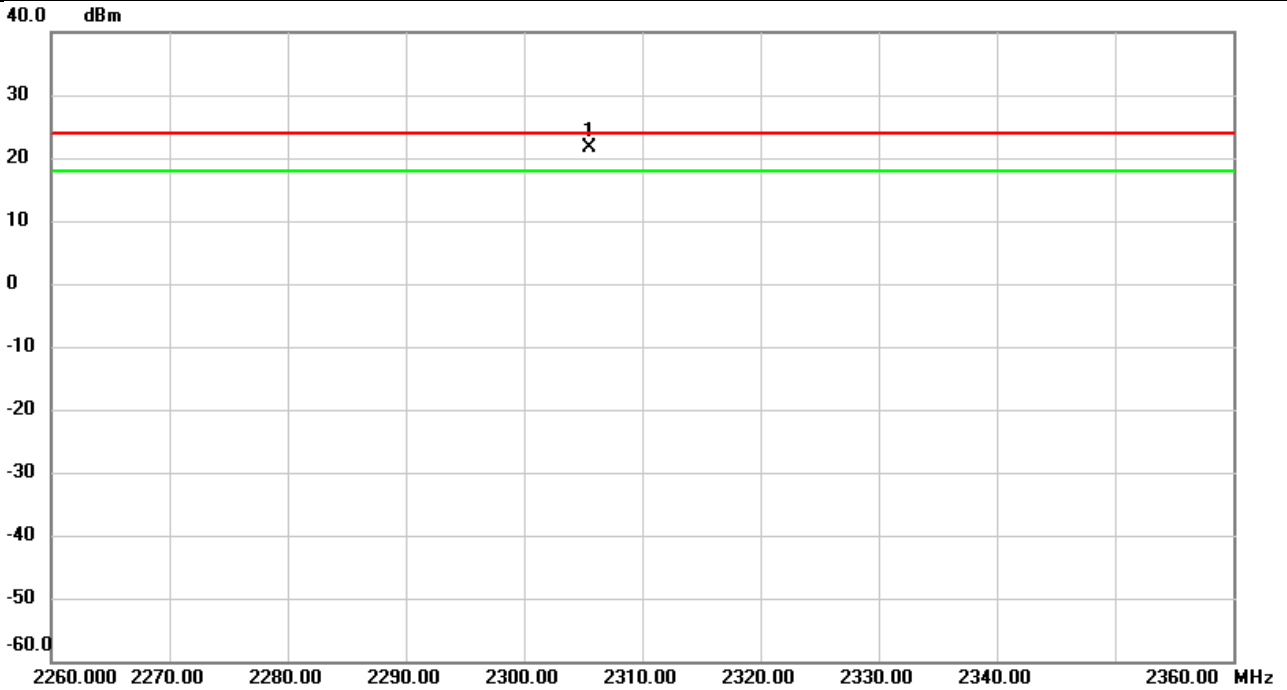


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2305.623	-20.15	41.55	21.40	23.98	-2.58	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/29
Test Channel	CH27710	Polarization	Horizontal
Temp	22°C	Hum.	67%

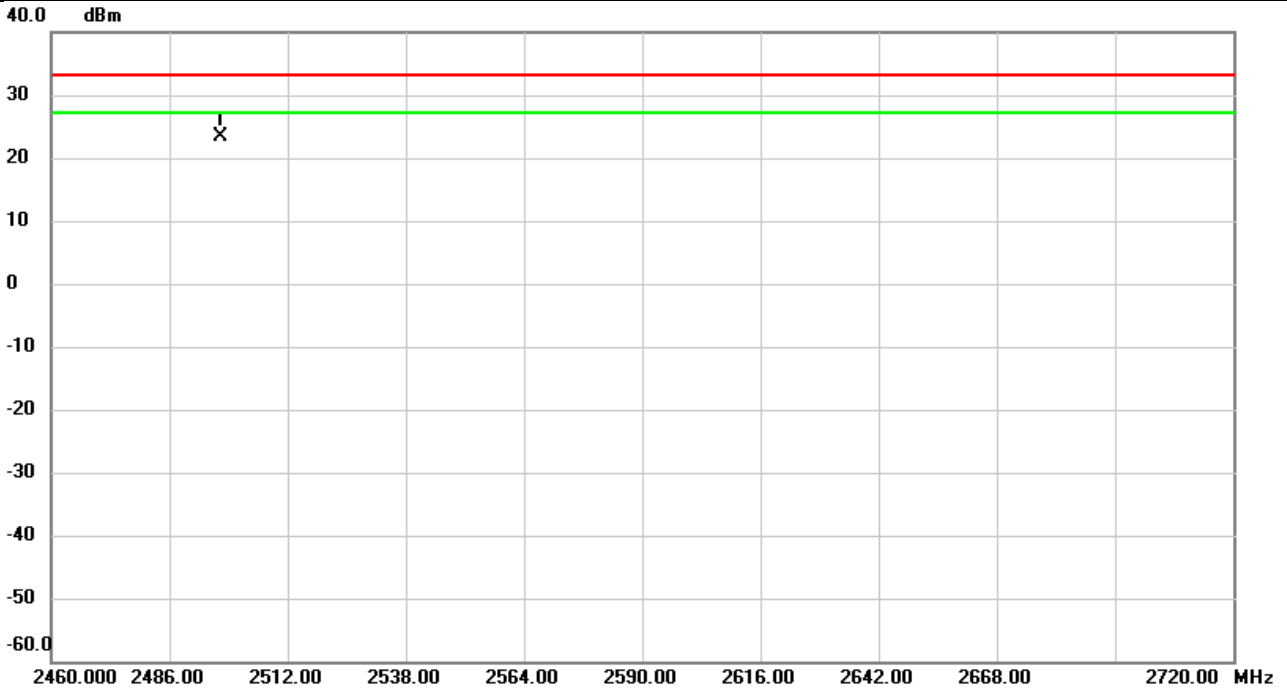


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2305.493	-19.81	41.56	21.75	23.98	-2.23	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH39750	Polarization	Vertical
Temp	21°C	Hum.	68%

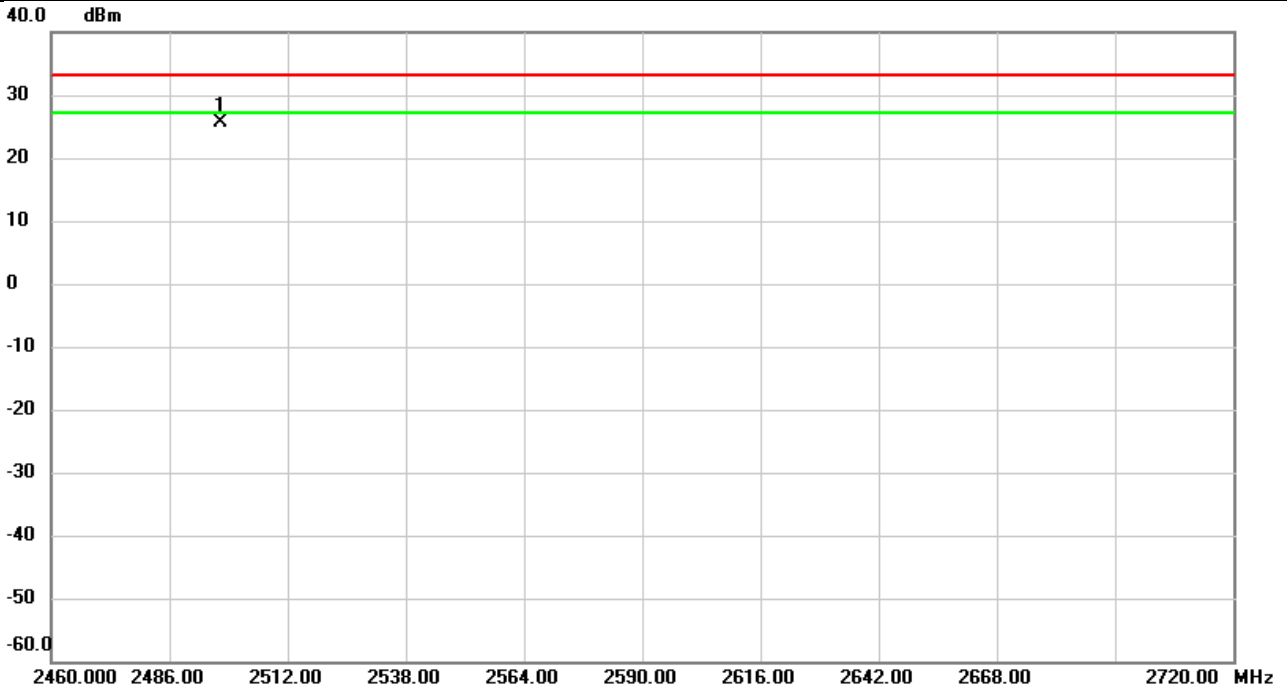


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2497.111	-18.64	42.08	23.44	33.01	-9.57	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH39750	Polarization	Horizontal
Temp	21°C	Hum.	68%

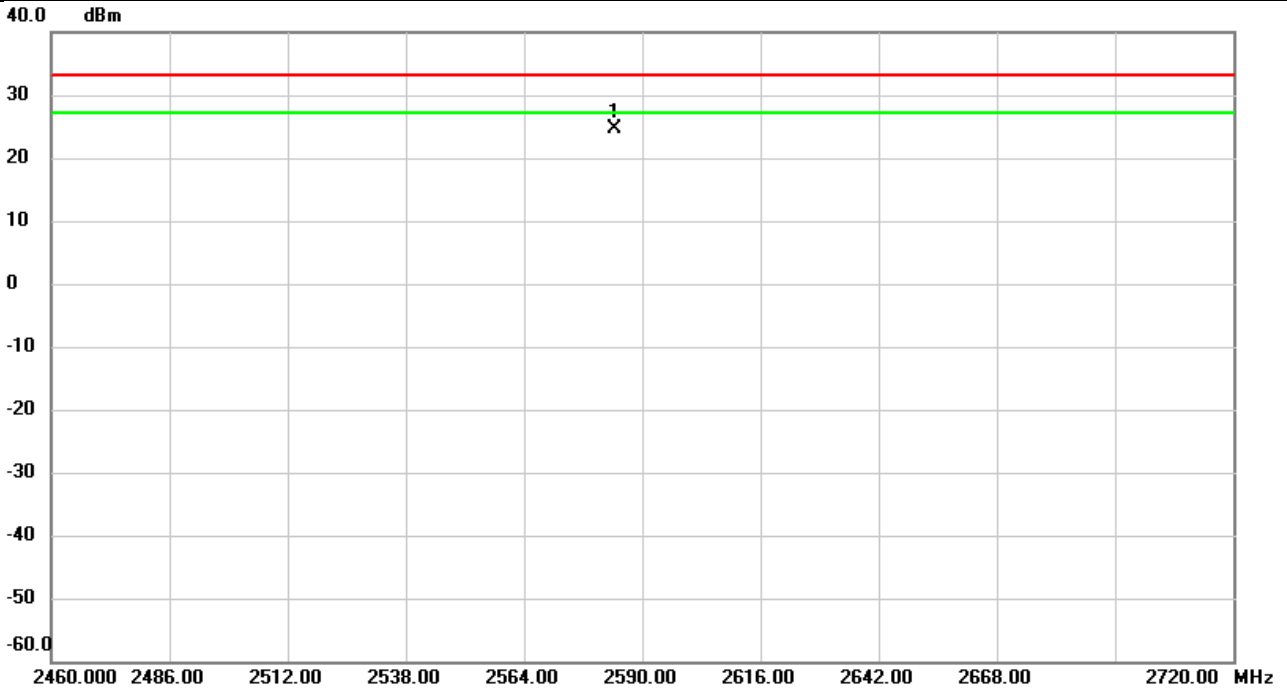


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2497.223	-16.14	41.82	25.68	33.01	-7.33	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH40620	Polarization	Vertical
Temp	21°C	Hum.	68%

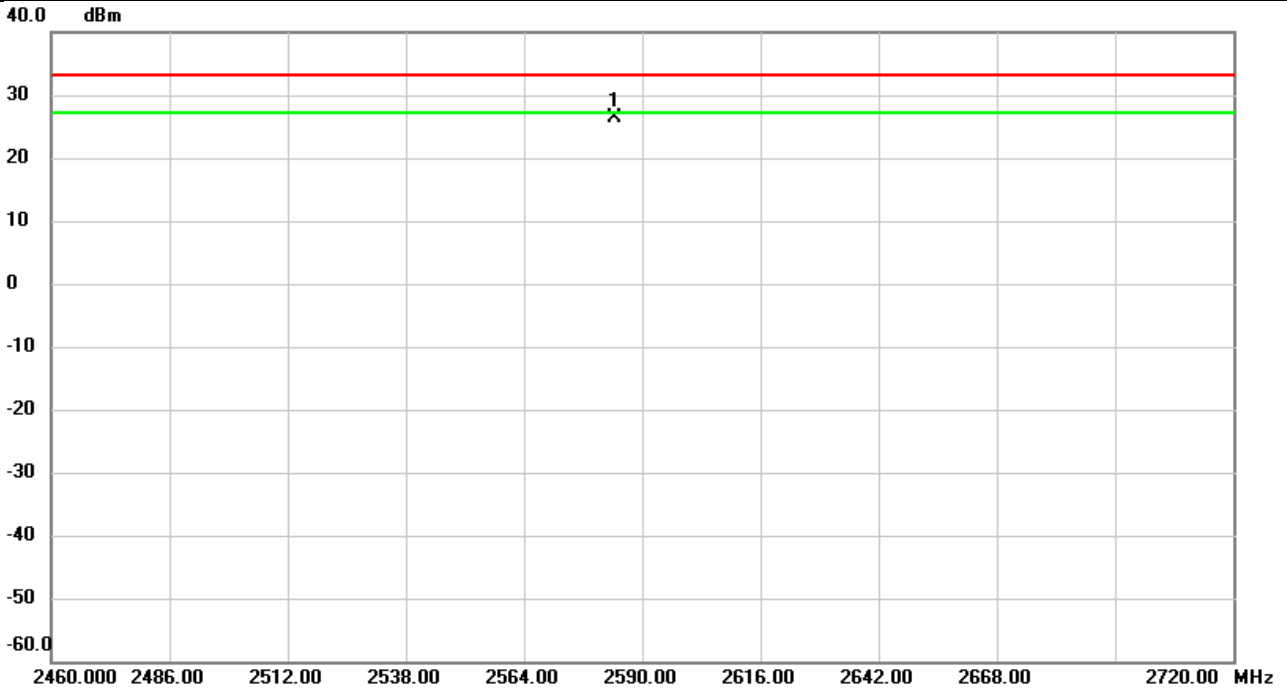


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2584.072	-17.58	42.14	24.56	33.01	-8.45	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH40620	Polarization	Horizontal
Temp	21°C	Hum.	68%



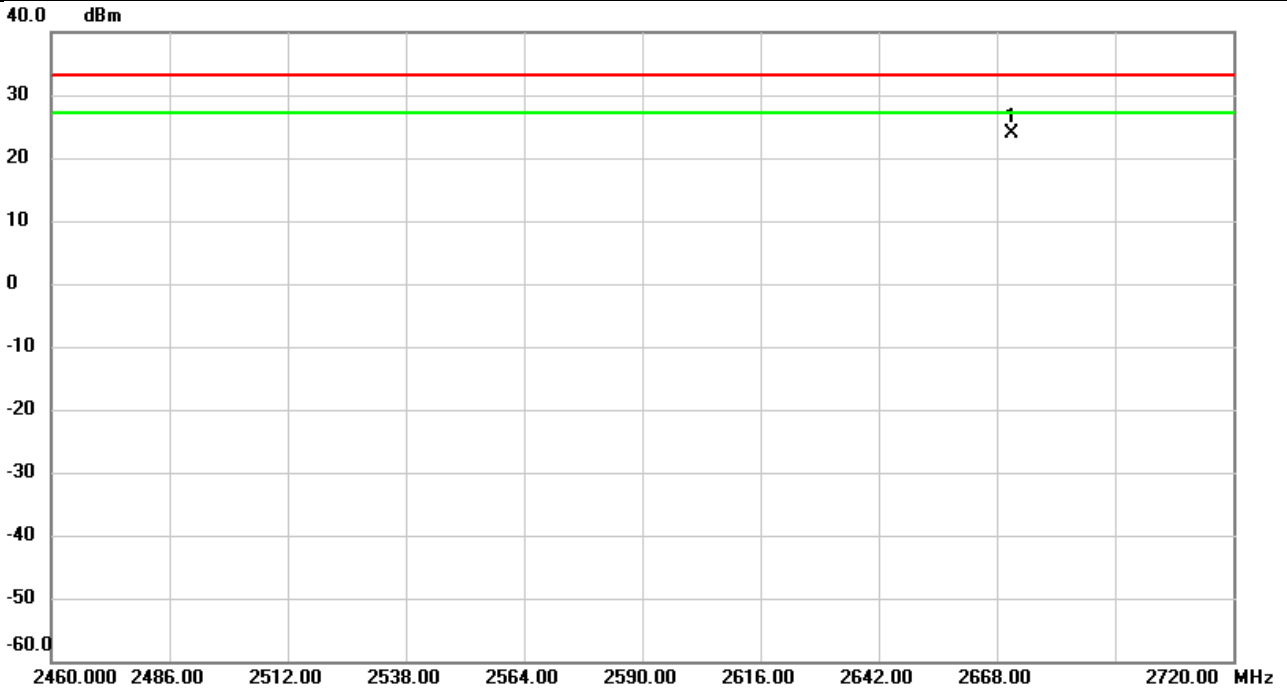
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2584.046	-15.82	42.22	26.40	33.01	-6.61	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH41490	Polarization	Vertical
Temp	21°C	Hum.	68%

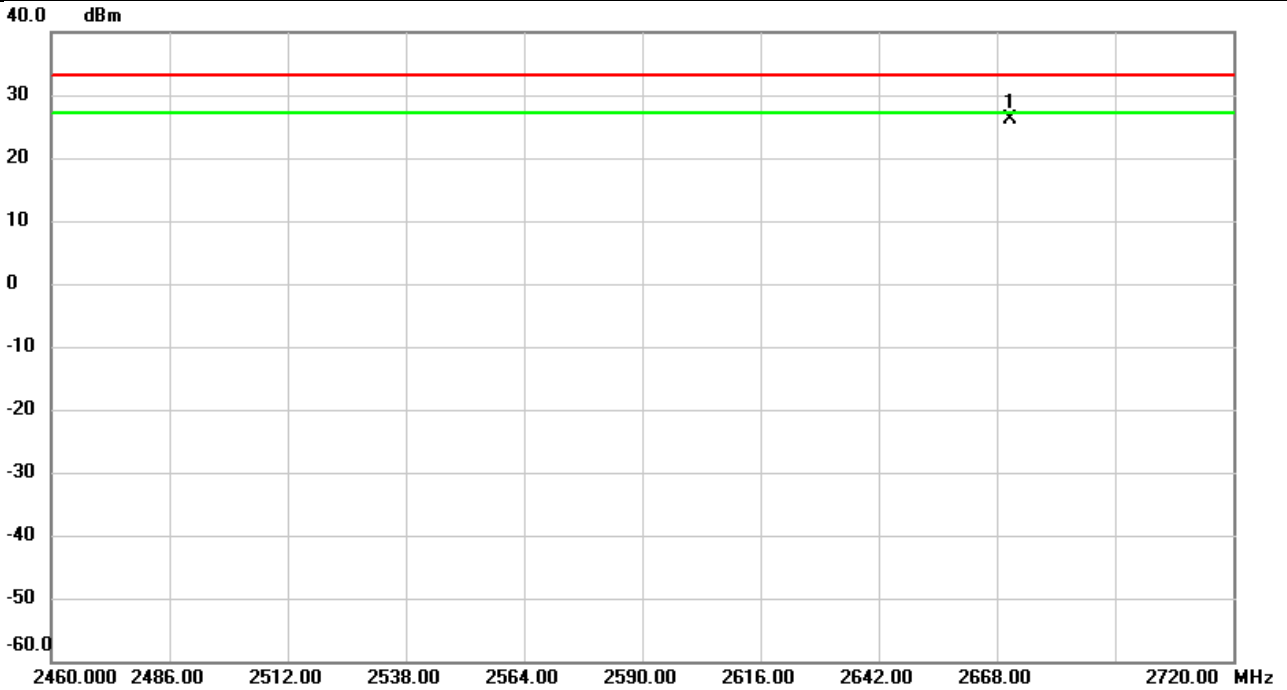


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2671.259	-18.40	42.18	23.78	33.01	-9.23	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH41490	Polarization	Horizontal
Temp	21°C	Hum.	68%

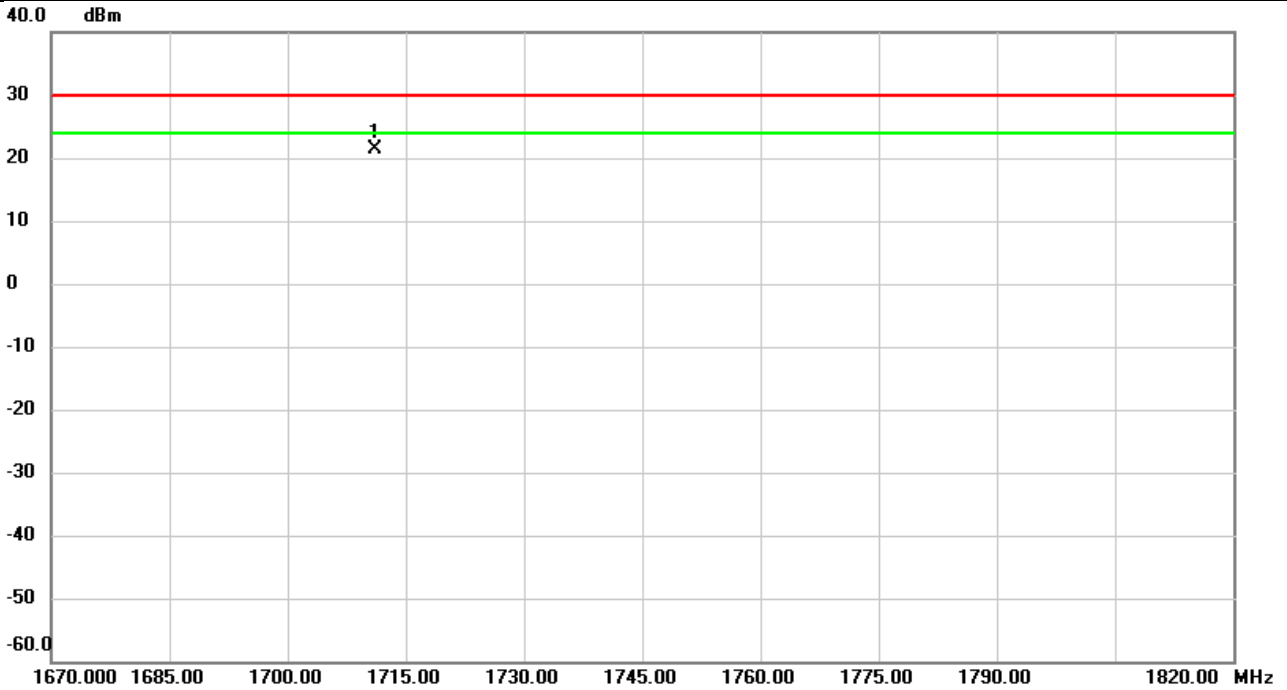


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2671.120	-16.55	42.63	26.08	33.01	-6.93	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132072	Polarization	Vertical
Temp	21°C	Hum.	68%

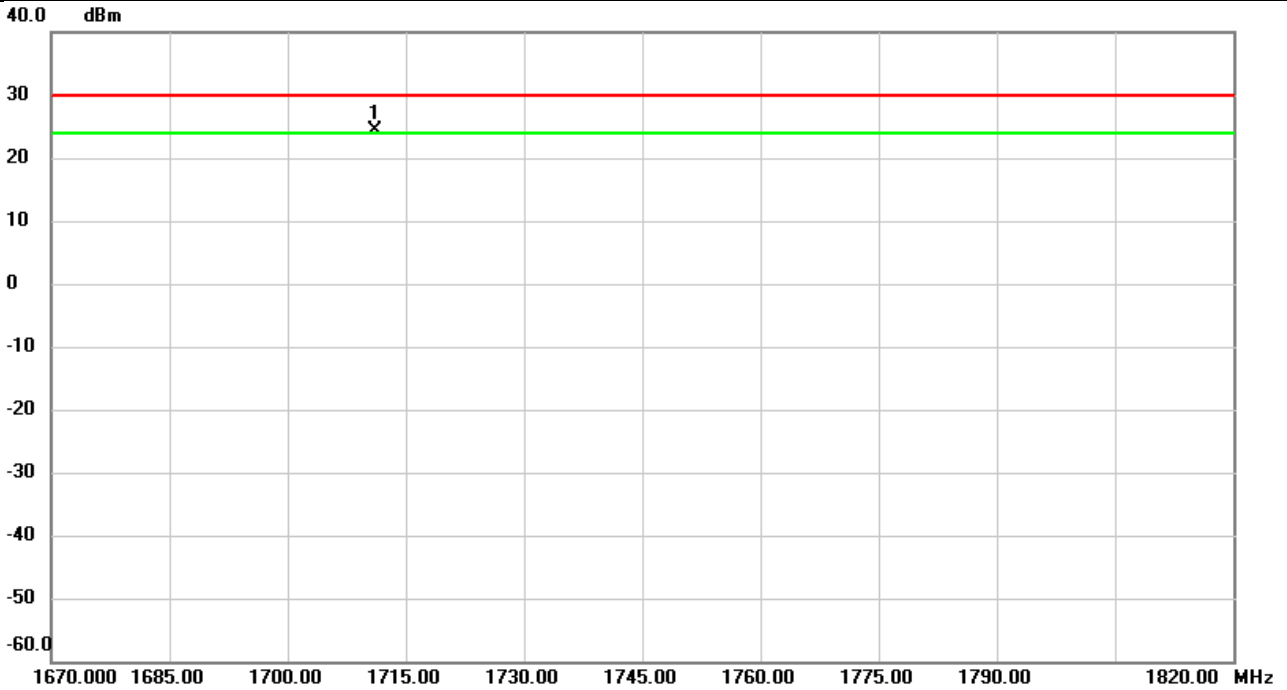


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1711.040	-17.99	39.47	21.48	30.00	-8.52	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132072	Polarization	Horizontal
Temp	21°C	Hum.	68%

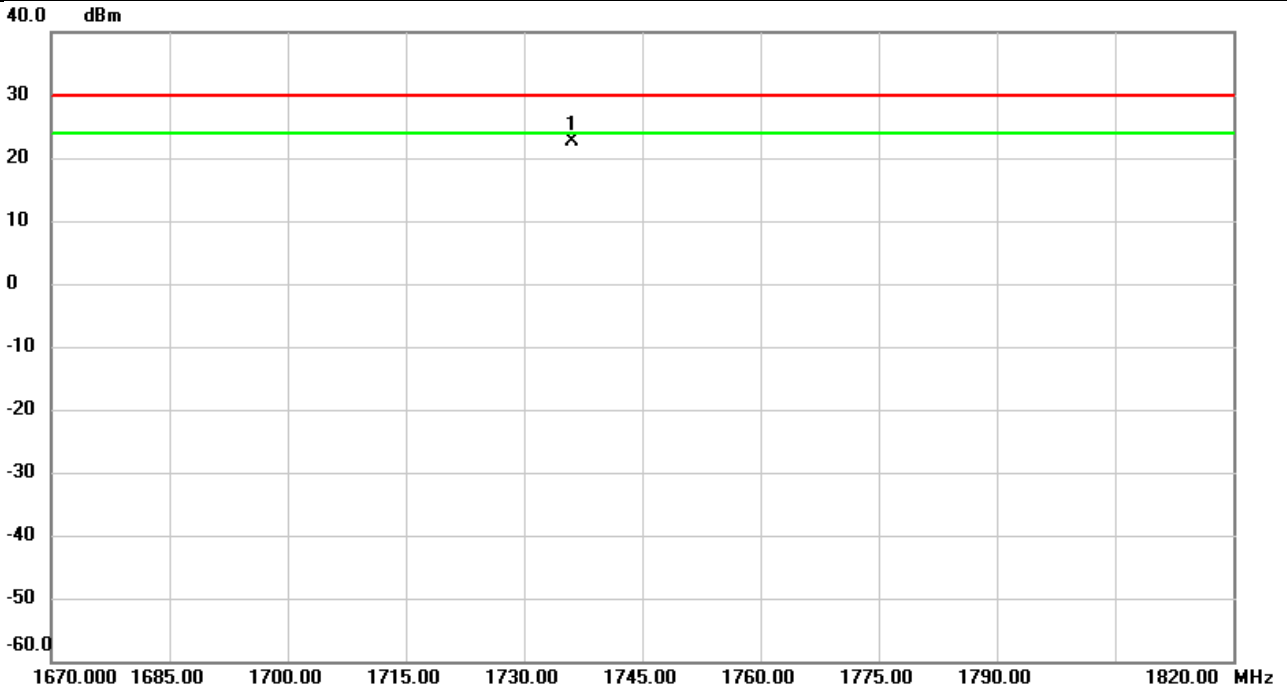


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1711.165	-15.71	40.11	24.40	30.00	-5.60	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132322	Polarization	Vertical
Temp	21°C	Hum.	68%

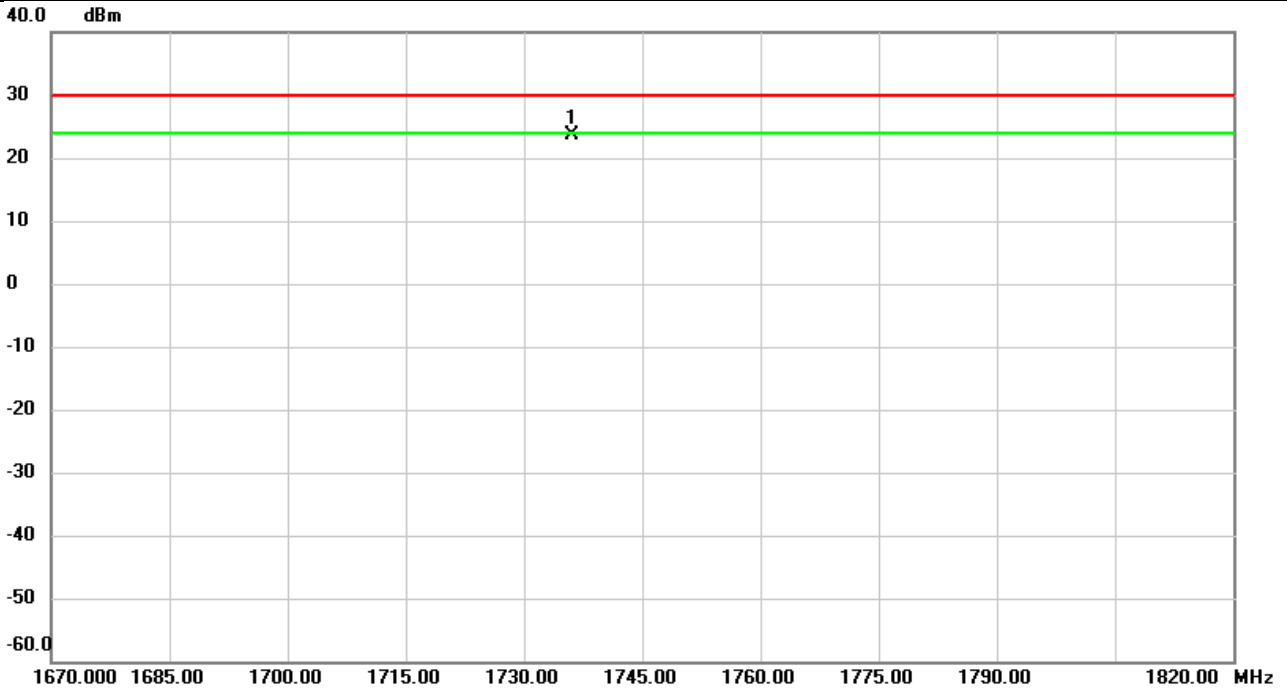


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.075	-16.84	39.58	22.74	30.00	-7.26	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132322	Polarization	Horizontal
Temp	21°C	Hum.	68%

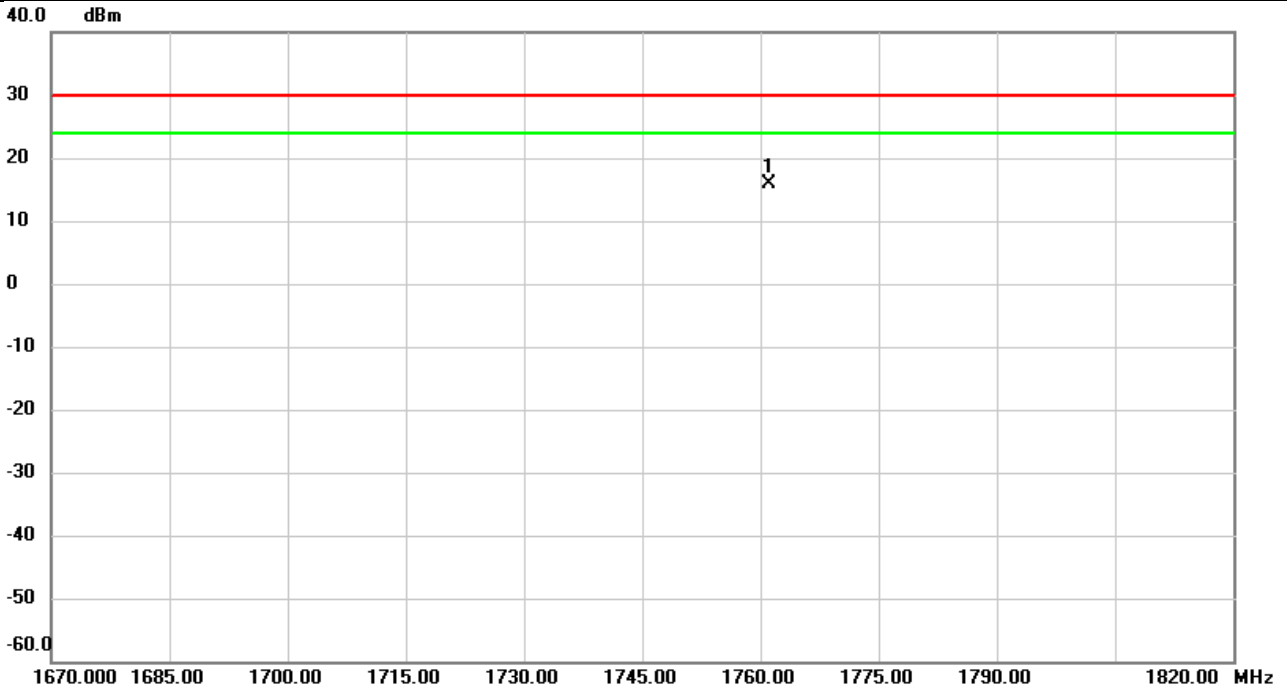


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1736.060	-16.62	40.20	23.58	30.00	-6.42	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132572	Polarization	Vertical
Temp	21°C	Hum.	68%

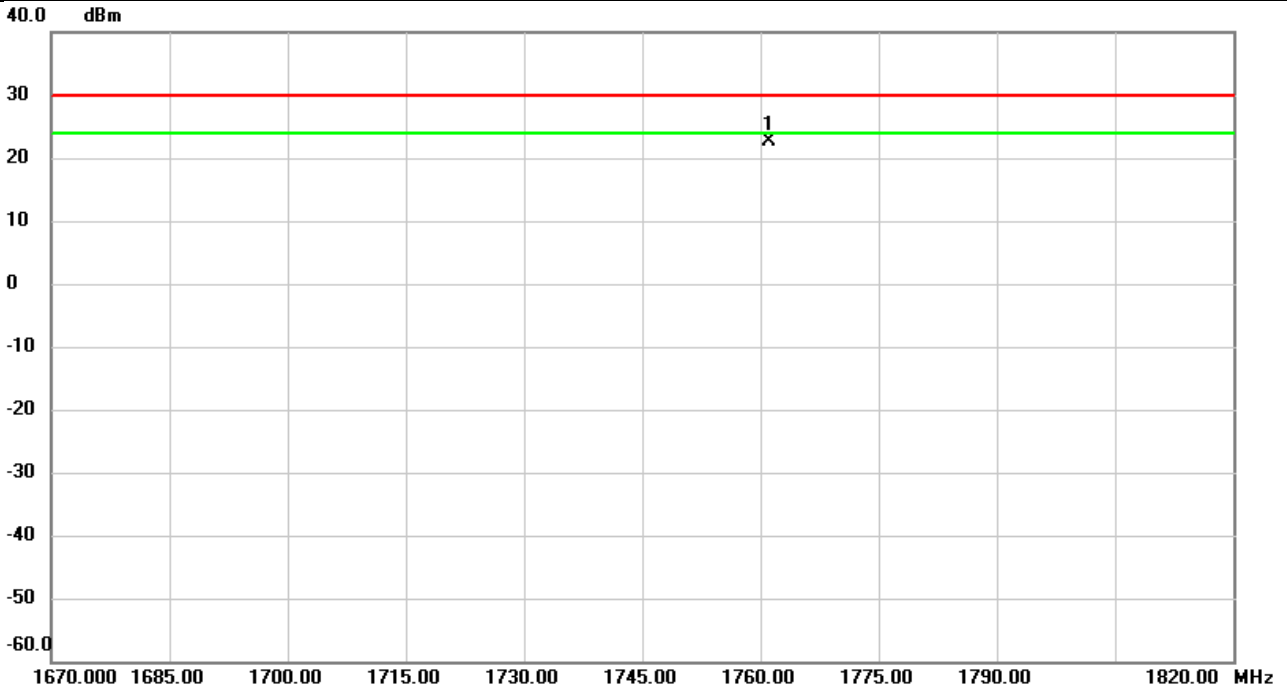


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1761.050	-23.69	39.69	16.00	30.00	-14.00	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132572	Polarization	Horizontal
Temp	21°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1761.135	-17.60	40.29	22.69	30.00	-7.31	peak	

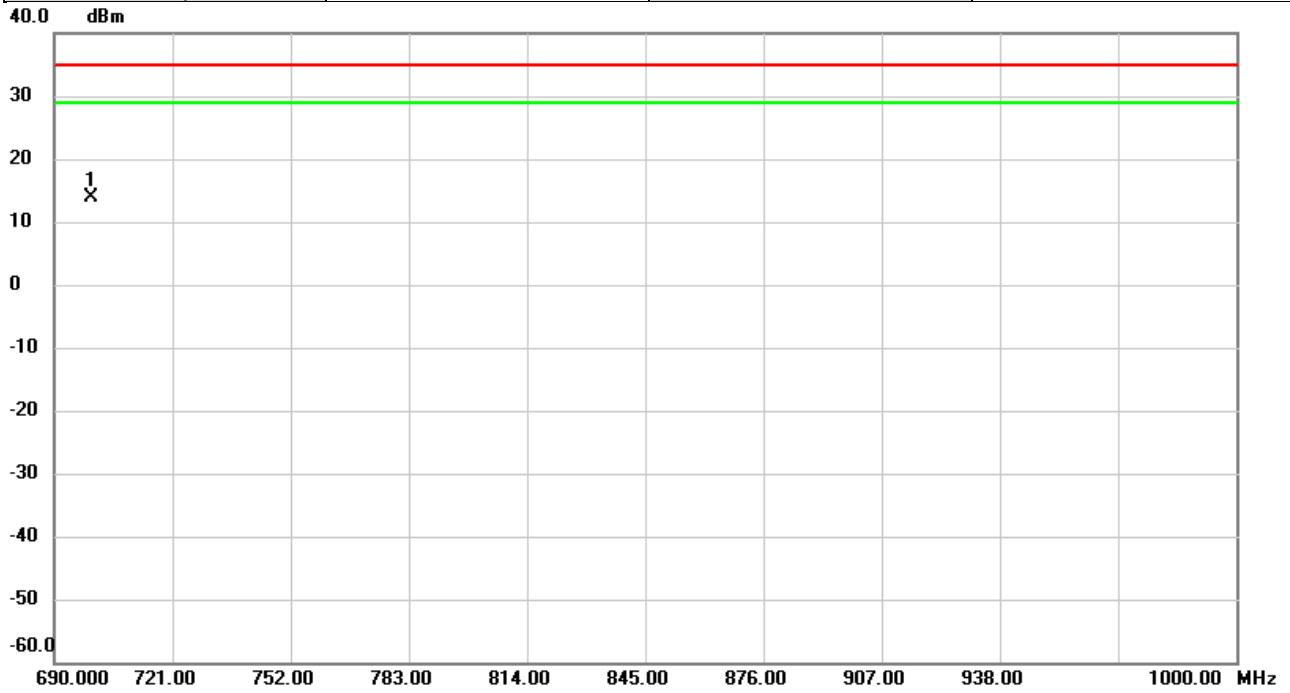
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



**Radiated ERP Power:**

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23060	Polarization	Vertical
Temp	21°C	Hum.	68%

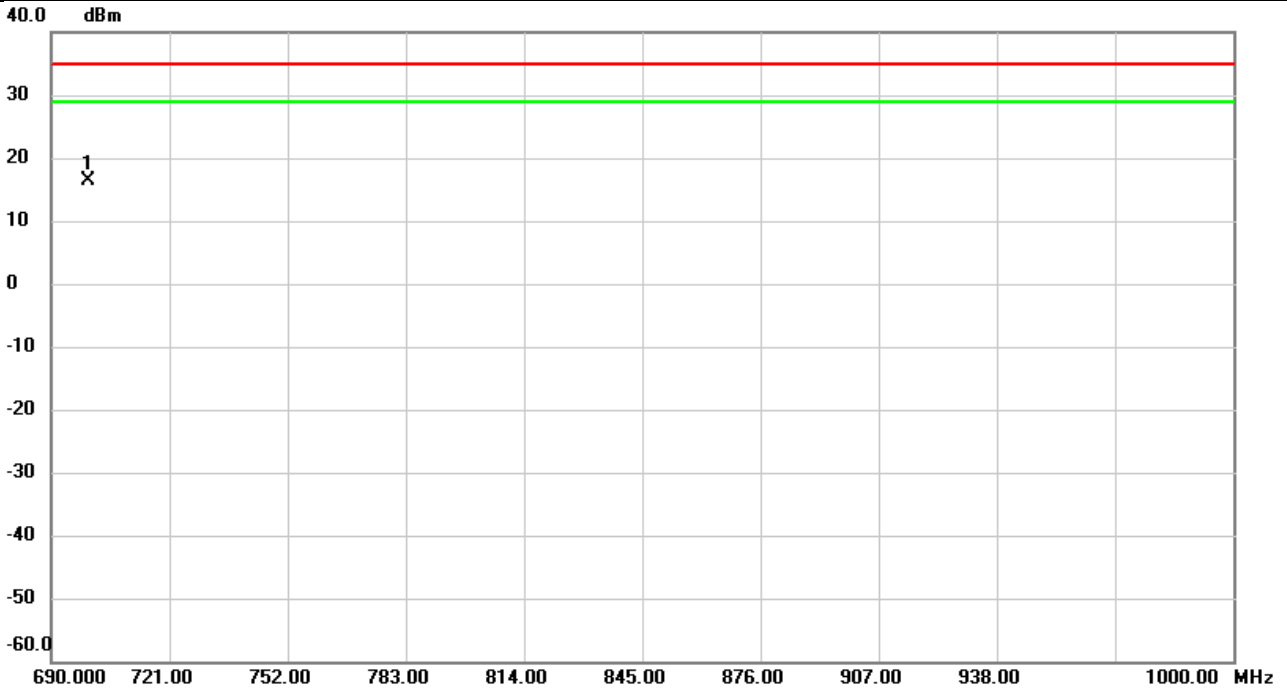


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	699.6720	-19.15	32.96	13.81	34.77	-20.96	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23060	Polarization	Horizontal
Temp	21°C	Hum.	68%

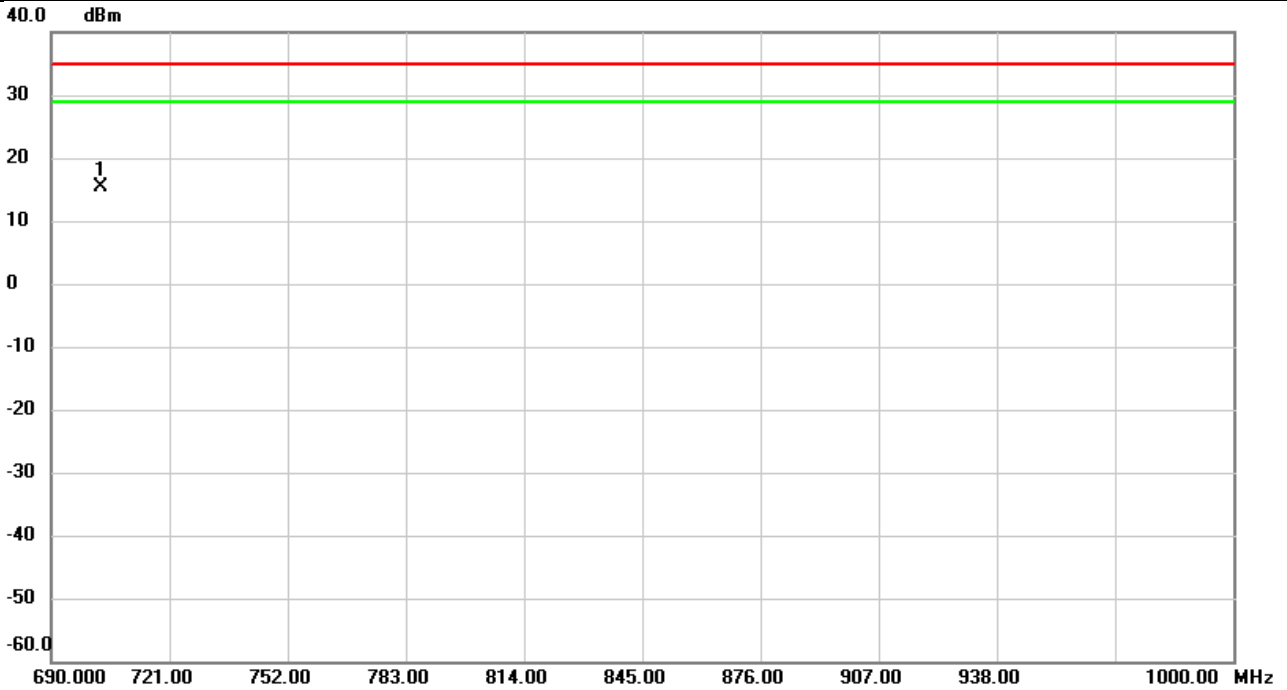


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	699.5480	-14.16	30.44	16.28	34.77	-18.49	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Vertical
Temp	21°C	Hum.	68%

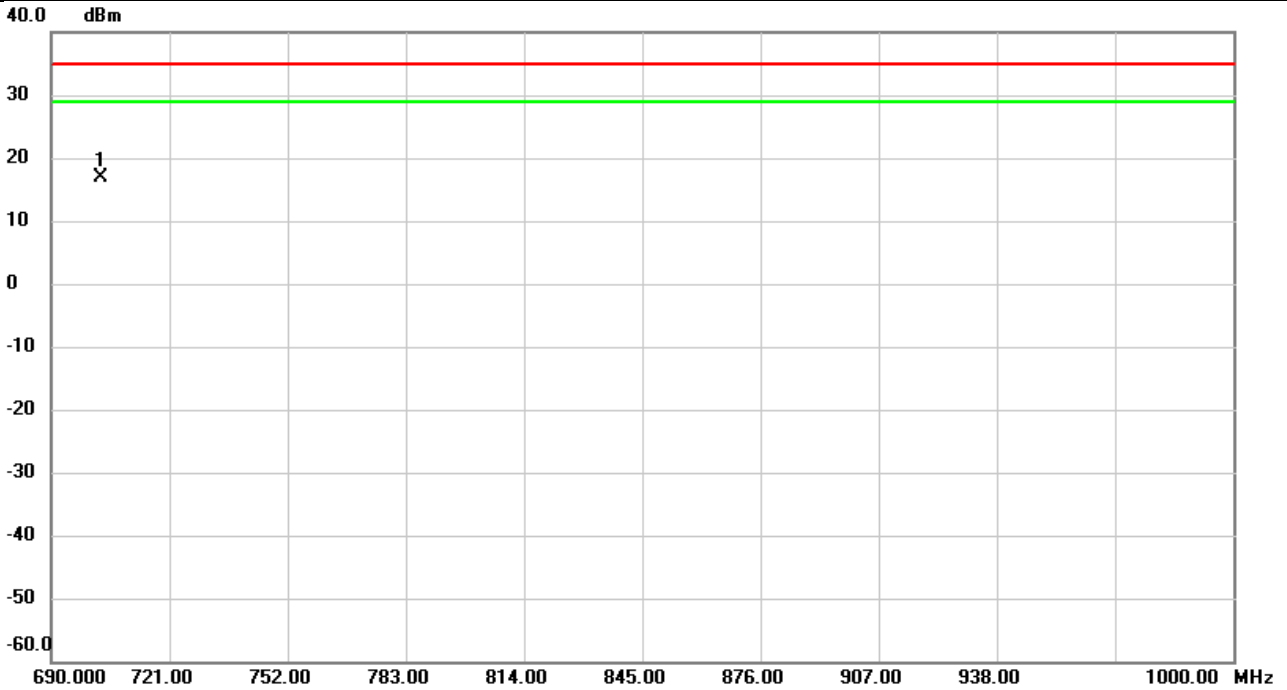


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	703.1750	-17.51	32.99	15.48	34.77	-19.29	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Horizontal
Temp	21°C	Hum.	68%

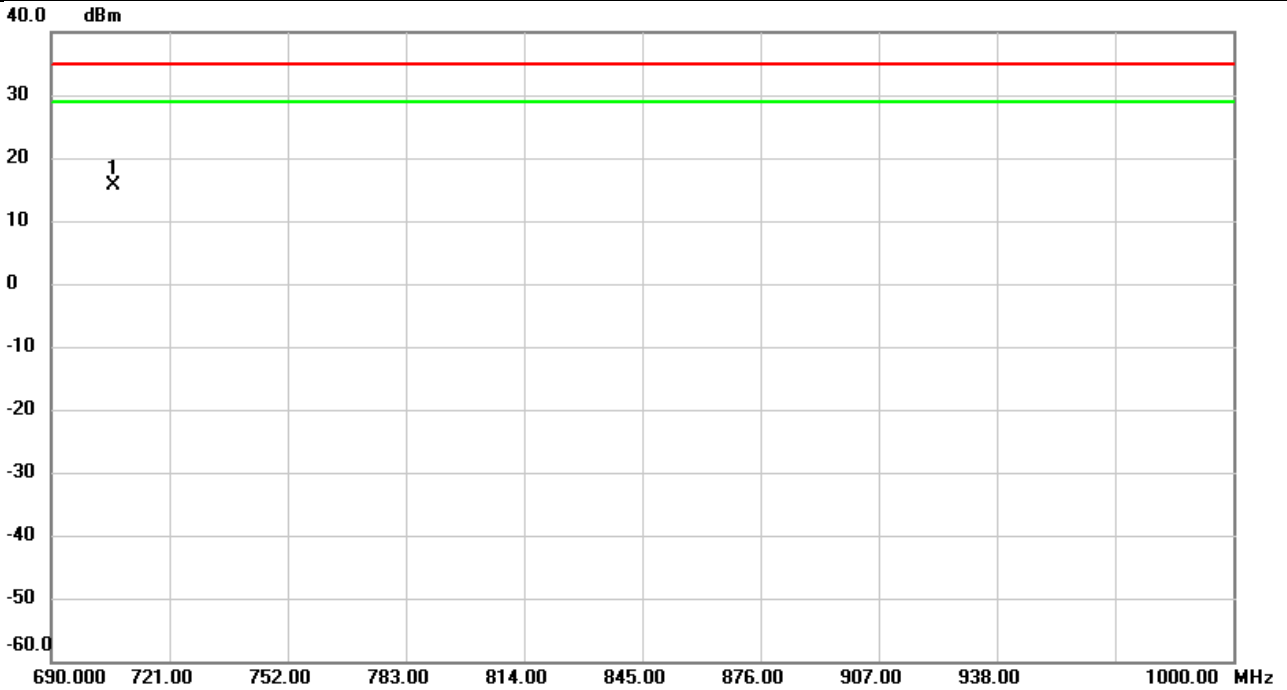


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	703.1543	-13.76	30.55	16.79	34.77	-17.98	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23130	Polarization	Vertical
Temp	21°C	Hum.	68%

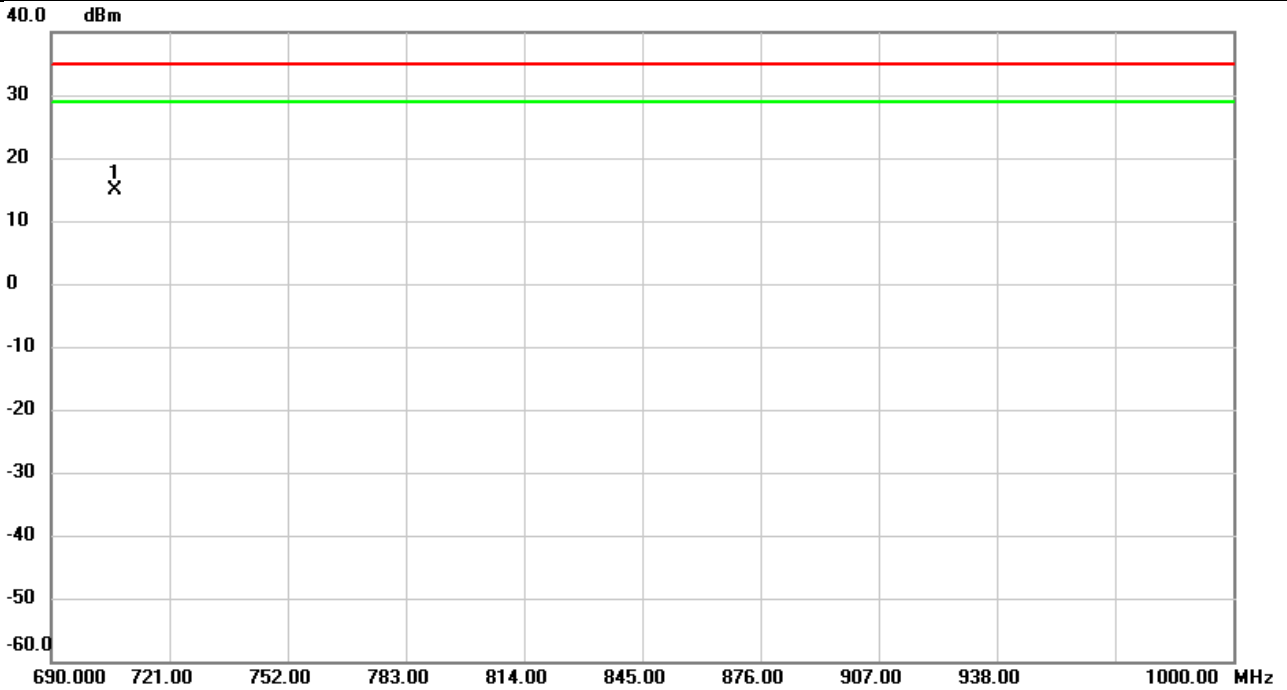


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	706.5230	-17.35	33.02	15.67	34.77	-19.10	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23130	Polarization	Horizontal
Temp	21°C	Hum.	68%

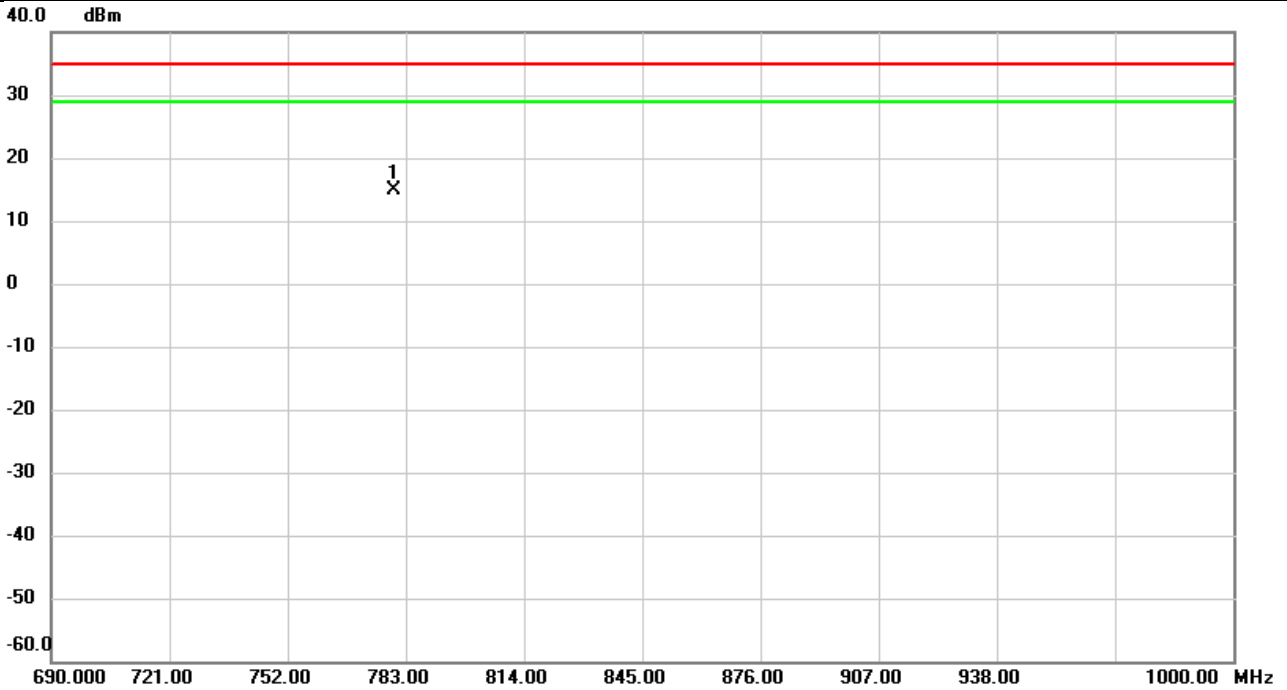


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	706.7400	-15.82	30.67	14.85	34.77	-19.92	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 13 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Vertical
Temp	21°C	Hum.	68%

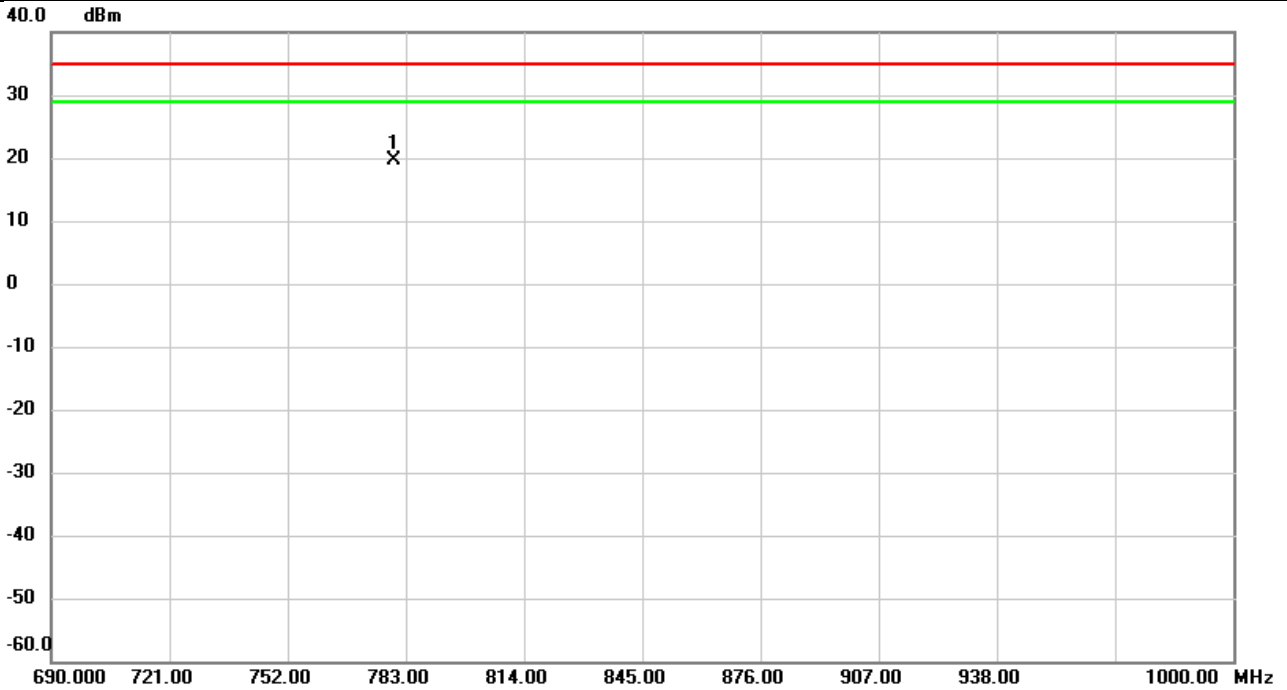


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	779.9207	-19.19	33.98	14.79	34.77	-19.98	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 13 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Horizontal
Temp	21°C	Hum.	68%



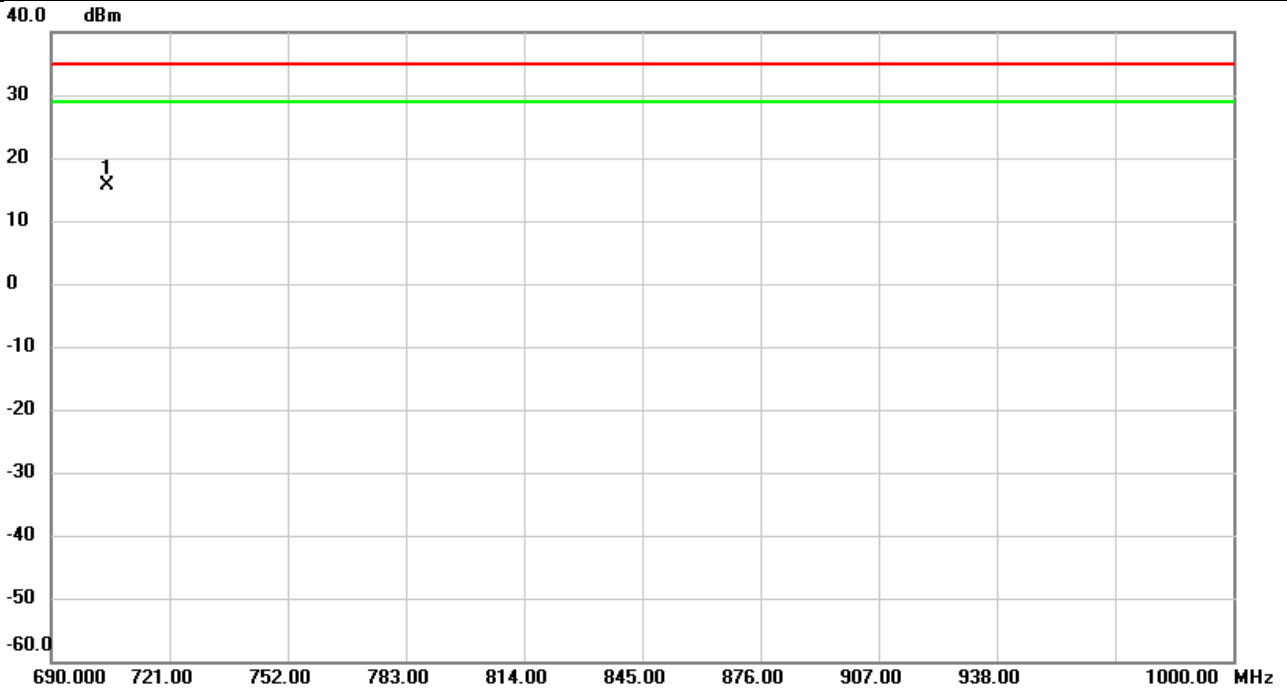
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	779.9000	-13.42	33.02	19.60	34.77	-15.17	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23780	Polarization	Vertical
Temp	21°C	Hum.	68%

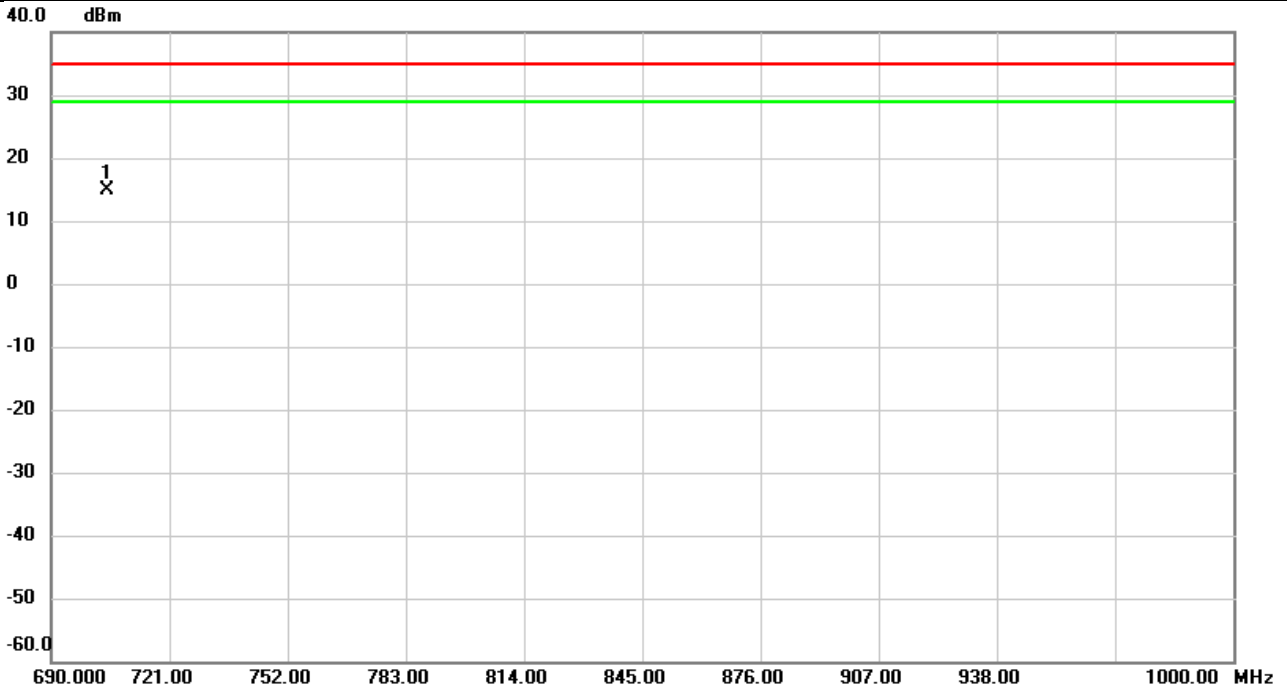


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	704.6423	-17.43	33.01	15.58	34.77	-19.19	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23780	Polarization	Horizontal
Temp	21°C	Hum.	68%

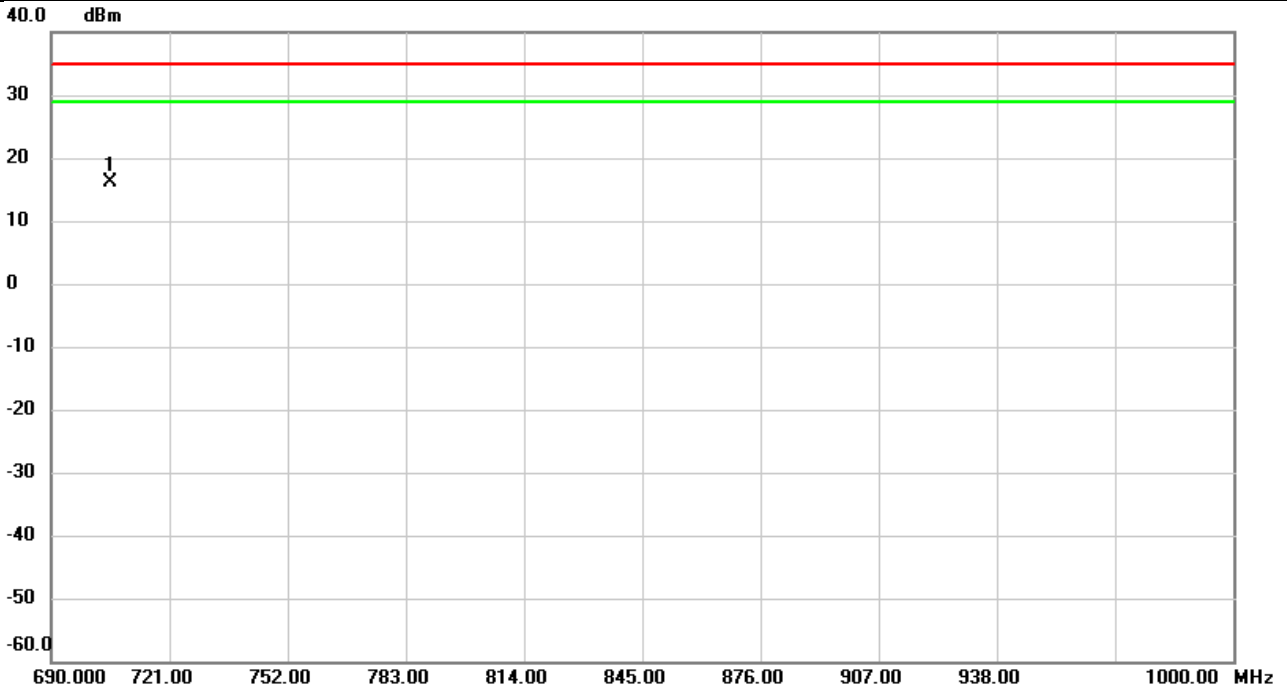


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	704.6216	-15.77	30.60	14.83	34.77	-19.94	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Vertical
Temp	21°C	Hum.	68%

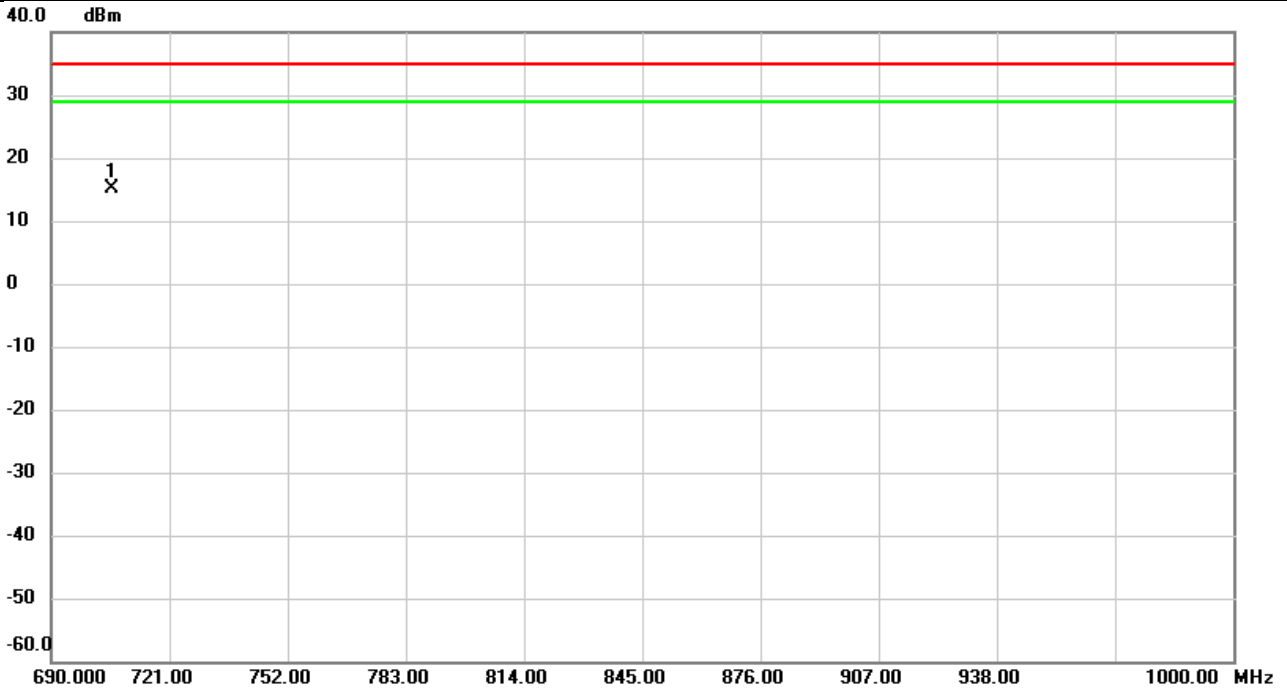


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	705.6137	-16.78	33.02	16.24	34.77	-18.53	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Horizontal
Temp	21°C	Hum.	68%

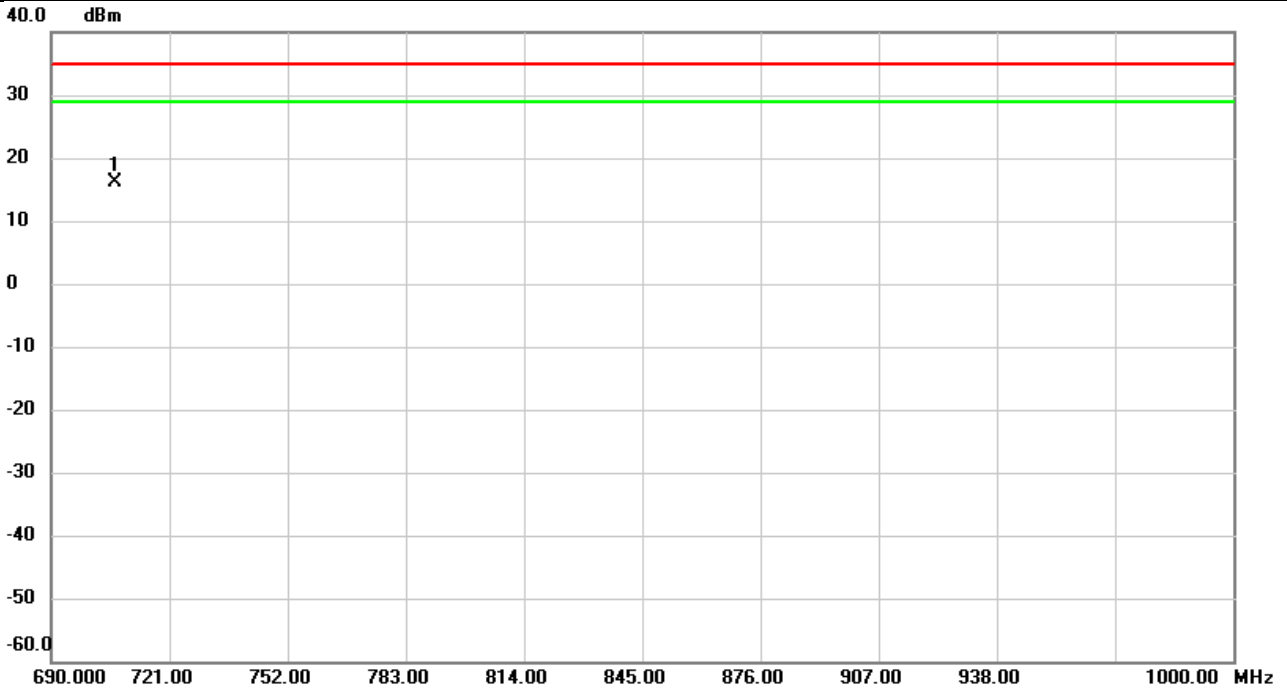


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	705.7273	-15.40	30.63	15.23	34.77	-19.54	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23800	Polarization	Vertical
Temp	21°C	Hum.	68%

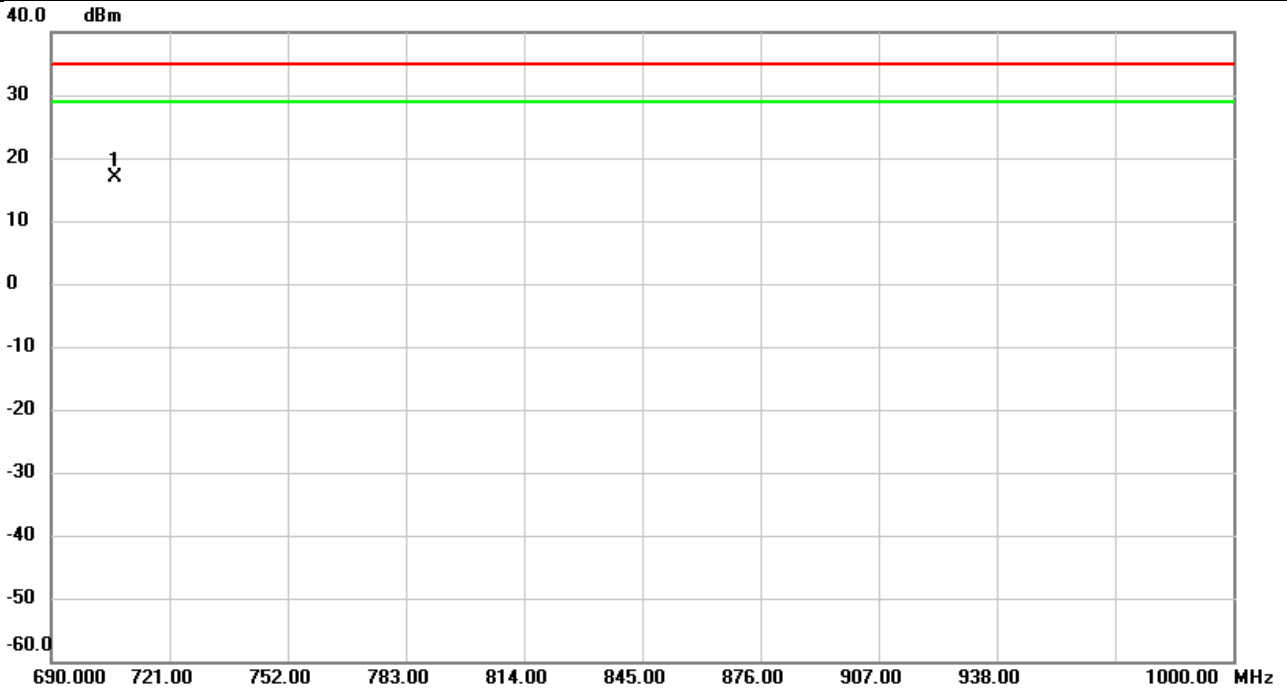


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	706.5540	-17.00	33.02	16.02	34.77	-18.75	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23800	Polarization	Horizontal
Temp	21°C	Hum.	68%



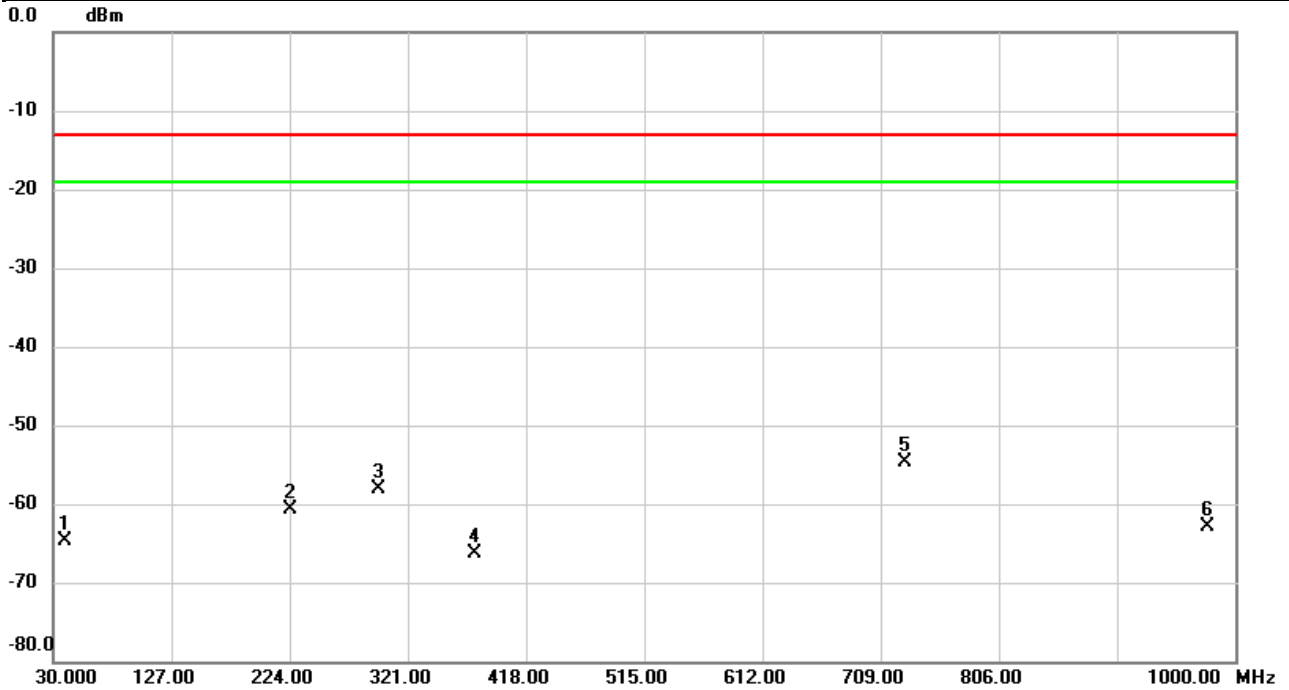
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	706.6367	-13.83	30.67	16.84	34.77	-17.93	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX C RADIATED SPURIOUS EMISSIONS

Test Mode	WCDMA Band IV	Test Date	2021/3/25
Test Channel	CH1652	Polarization	Vertical
Temp	21°C	Hum.	68%



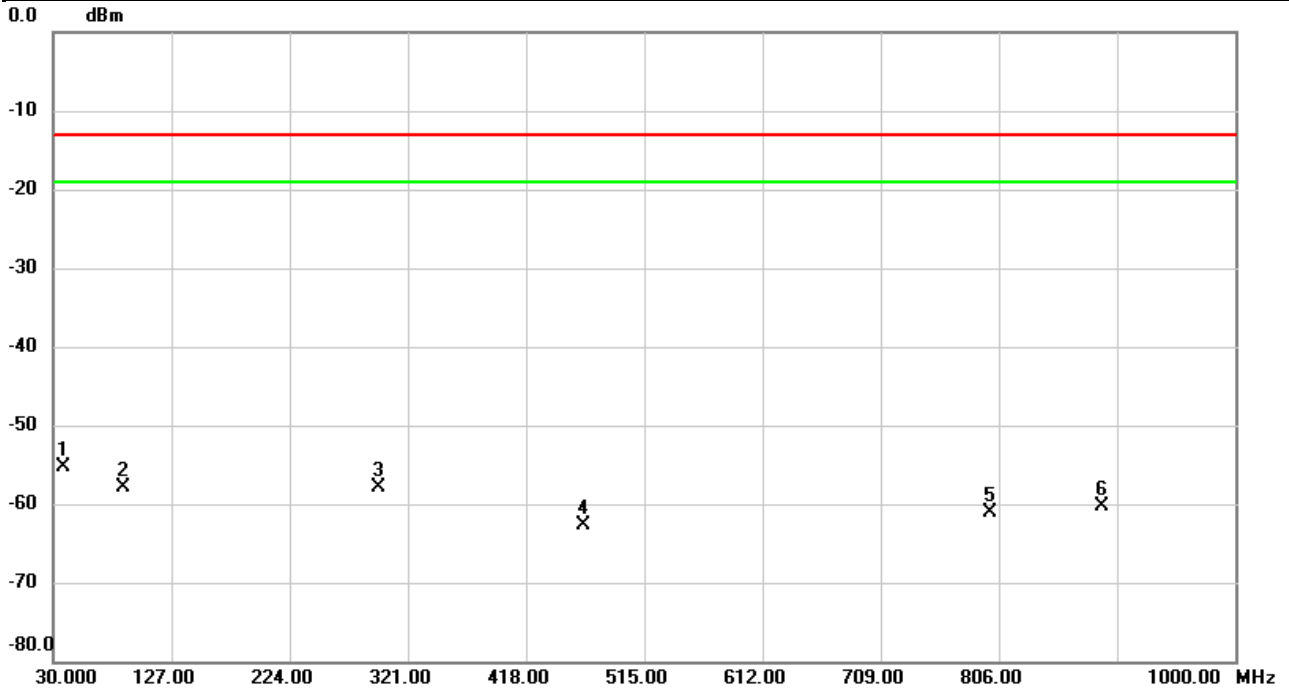
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		39.7000	-63.35	-1.35	-64.70	-13.00	-51.70	peak	
2		224.0000	-64.24	3.57	-60.67	-13.00	-47.67	peak	
3		296.7500	-65.79	7.62	-58.17	-13.00	-45.17	peak	
4		375.3200	-70.70	4.50	-66.20	-13.00	-53.20	peak	
5	*	729.3700	-66.67	12.01	-54.66	-13.00	-41.66	peak	
6		976.7200	-76.65	13.84	-62.81	-13.00	-49.81	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	WCDMA Band IV	Test Date	2021/3/25
Test Channel	CH1652	Polarization	Horizontal
Temp	21°C	Hum.	68%

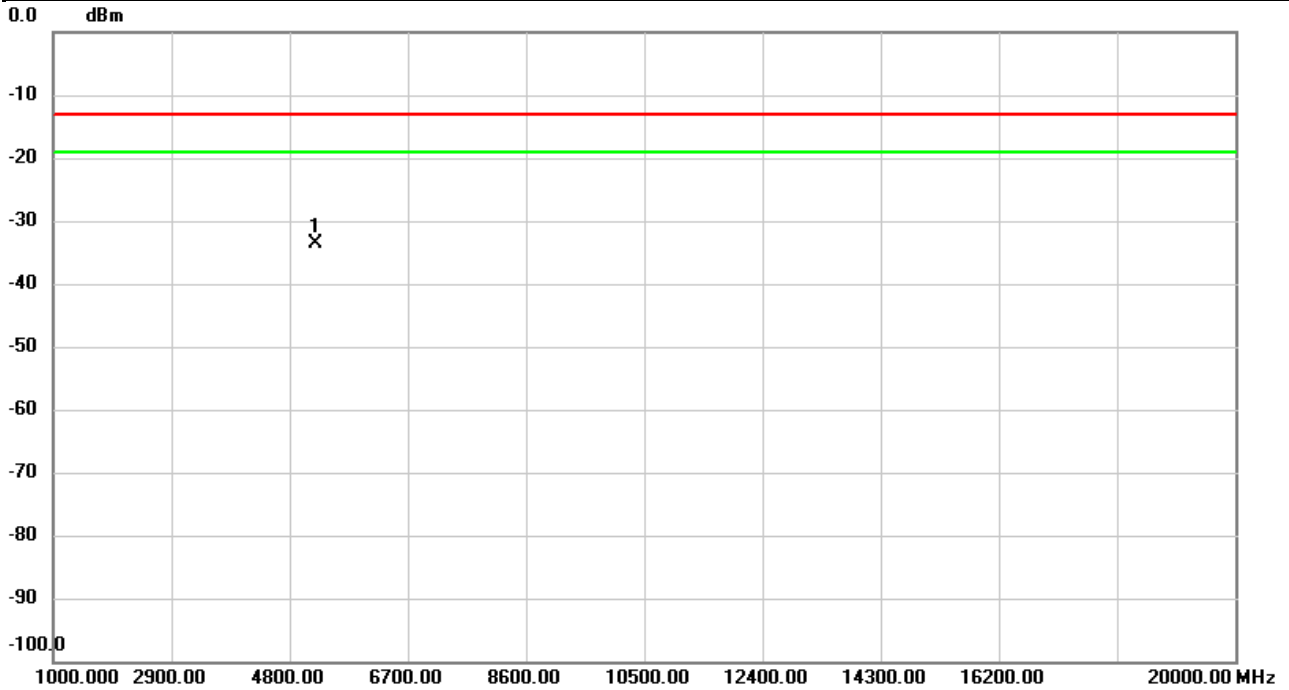


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	37.7600	-71.40	16.09	-55.31	-13.00	-42.31	peak	
2		87.2300	-62.10	4.24	-57.86	-13.00	-44.86	peak	
3		296.7500	-58.59	0.76	-57.83	-13.00	-44.83	peak	
4		465.5300	-75.01	12.32	-62.69	-13.00	-49.69	peak	
5		798.2400	-76.23	15.10	-61.13	-13.00	-48.13	peak	
6		890.3900	-76.24	15.85	-60.39	-13.00	-47.39	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1652	Polarization	Vertical
Temp	21°C	Hum.	68%

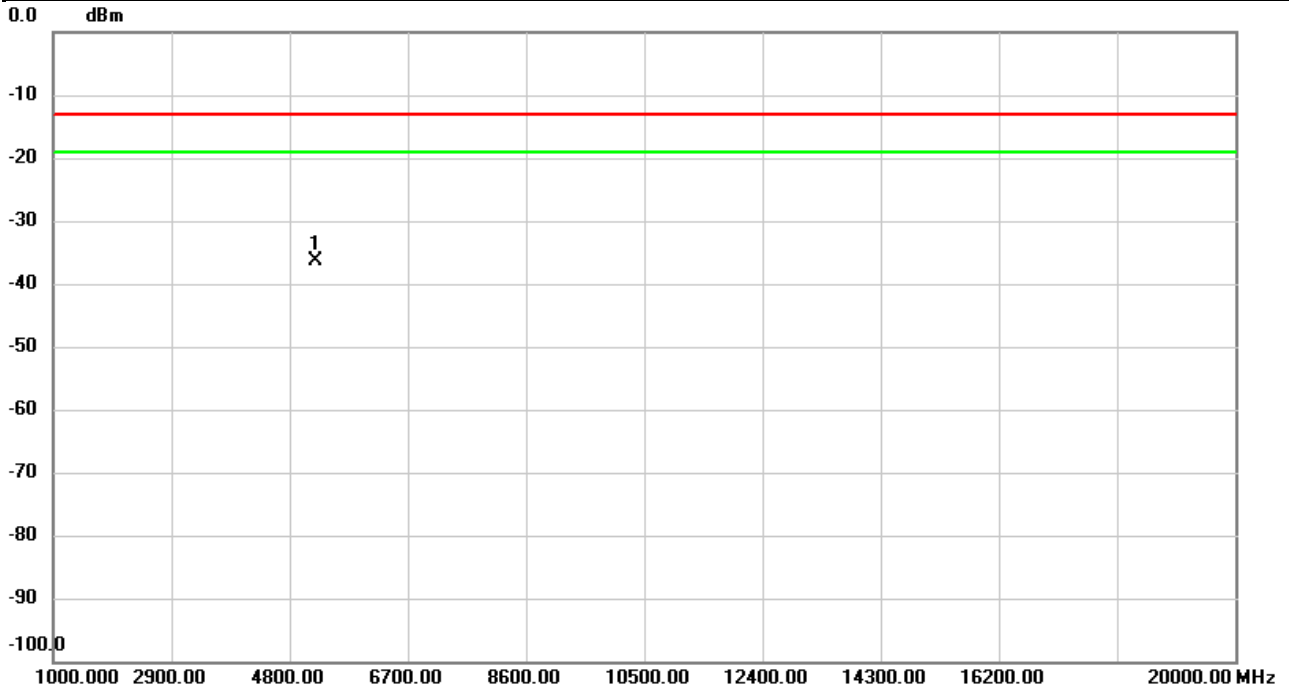


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5209.767	-35.01	1.45	-33.56	-13.00	-20.56	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band IV	Test Date	2021/3/23
Test Channel	CH1652	Polarization	Horizontal
Temp	21°C	Hum.	68%

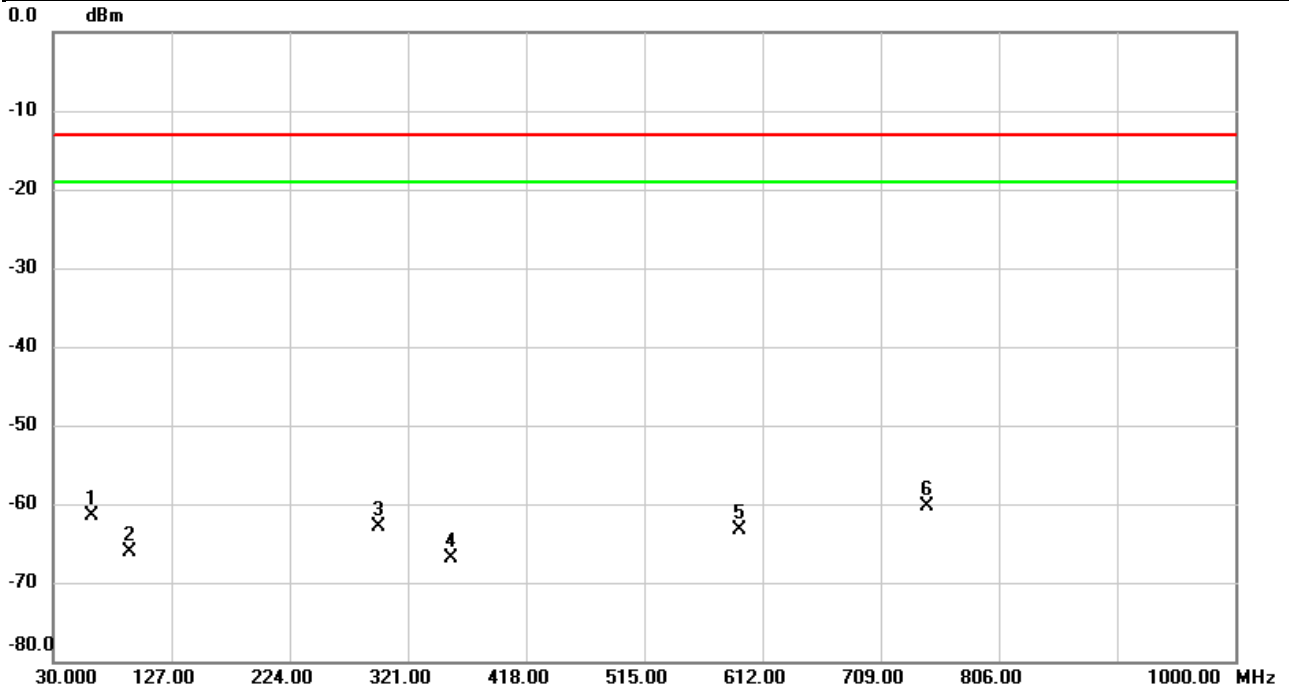


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5210.400	-38.80	2.38	-36.42	-13.00	-23.42	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/25
Test Channel	CH20175	Polarization	Vertical
Temp	21°C	Hum.	68%

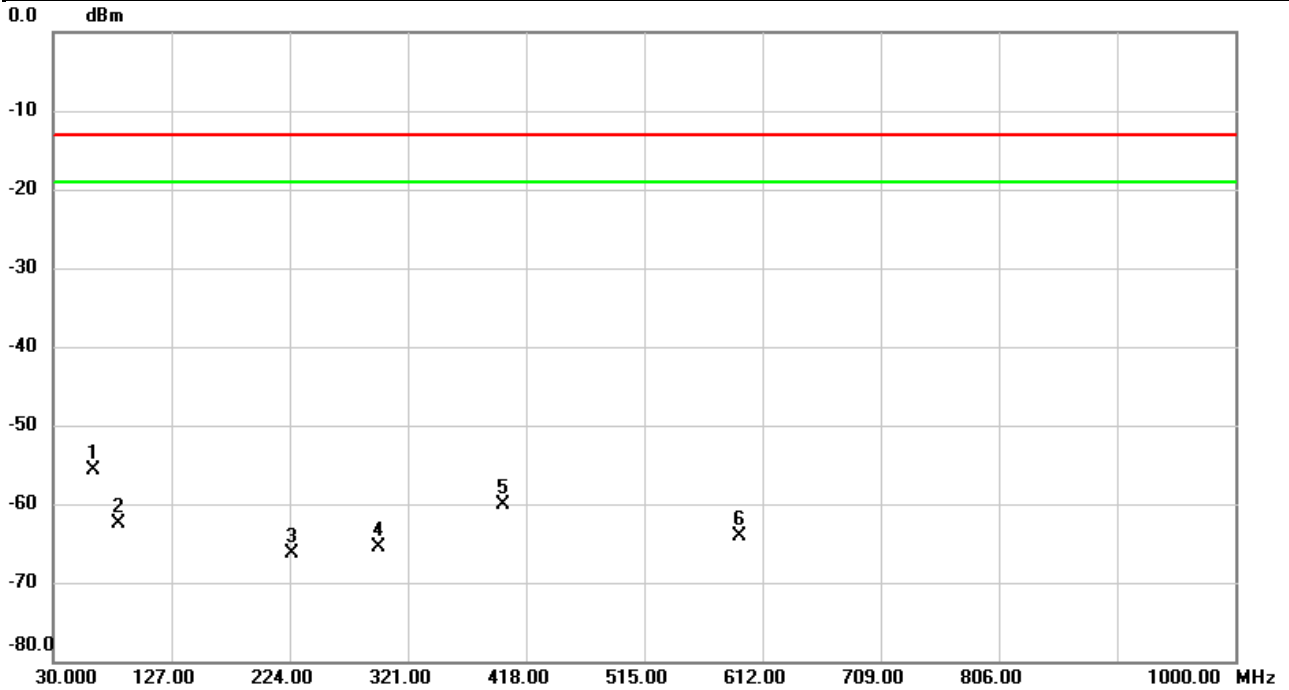


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		61.0400	-59.98	-1.44	-61.42	-13.00	-48.42	peak	
2		93.0500	-65.17	-0.85	-66.02	-13.00	-53.02	peak	
3		296.7500	-70.52	7.62	-62.90	-13.00	-49.90	peak	
4		355.9200	-72.95	6.14	-66.81	-13.00	-53.81	peak	
5		593.5700	-75.12	11.75	-63.37	-13.00	-50.37	peak	
6	*	746.8300	-71.97	11.63	-60.34	-13.00	-47.34	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/25
Test Channel	CH20175	Polarization	Horizontal
Temp	21°C	Hum.	68%

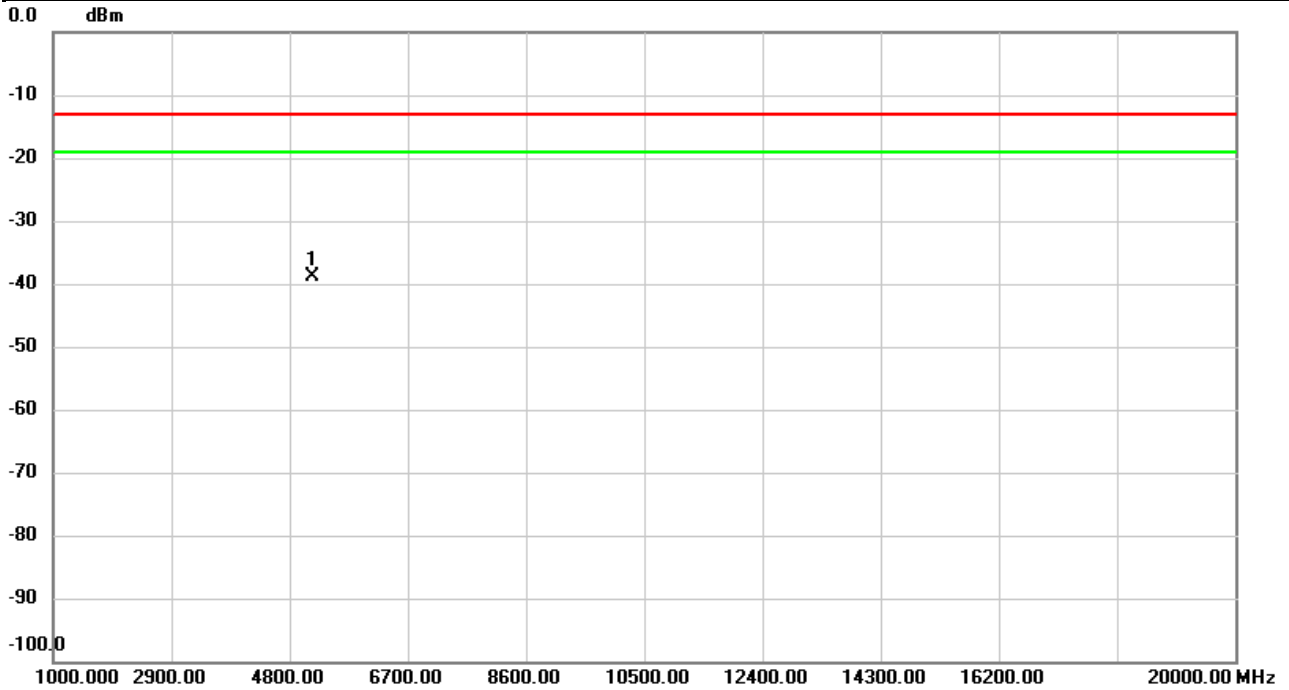


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-61.83	6.15	-55.68	-13.00	-42.68	peak	
2		83.3500	-67.46	5.05	-62.41	-13.00	-49.41	peak	
3		225.9400	-65.62	-0.76	-66.38	-13.00	-53.38	peak	
4		296.7500	-66.31	0.76	-65.55	-13.00	-52.55	peak	
5		399.5700	-66.27	6.16	-60.11	-13.00	-47.11	peak	
6		593.5700	-71.58	7.44	-64.14	-13.00	-51.14	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20175	Polarization	Vertical
Temp	21°C	Hum.	68%

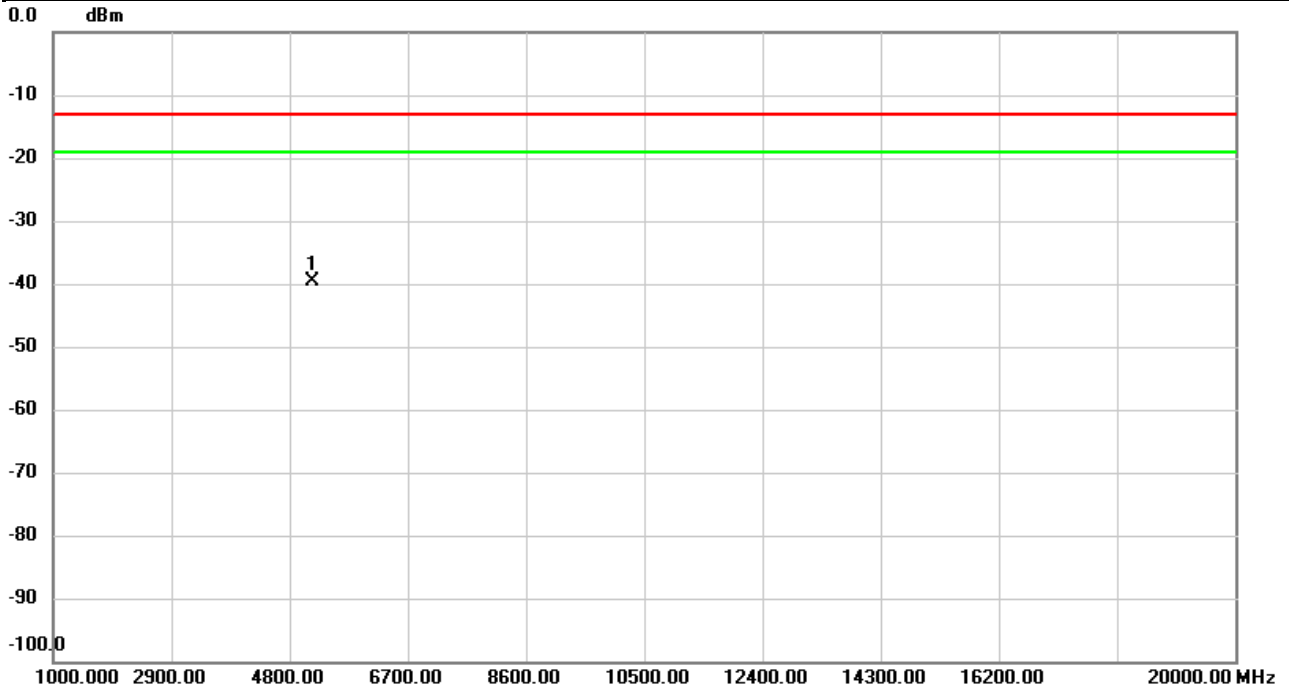


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5171.133	-40.61	1.79	-38.82	-13.00	-25.82	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 4 (QPSK)	Test Date	2021/3/24
Test Channel	CH20175	Polarization	Horizontal
Temp	21°C	Hum.	68%

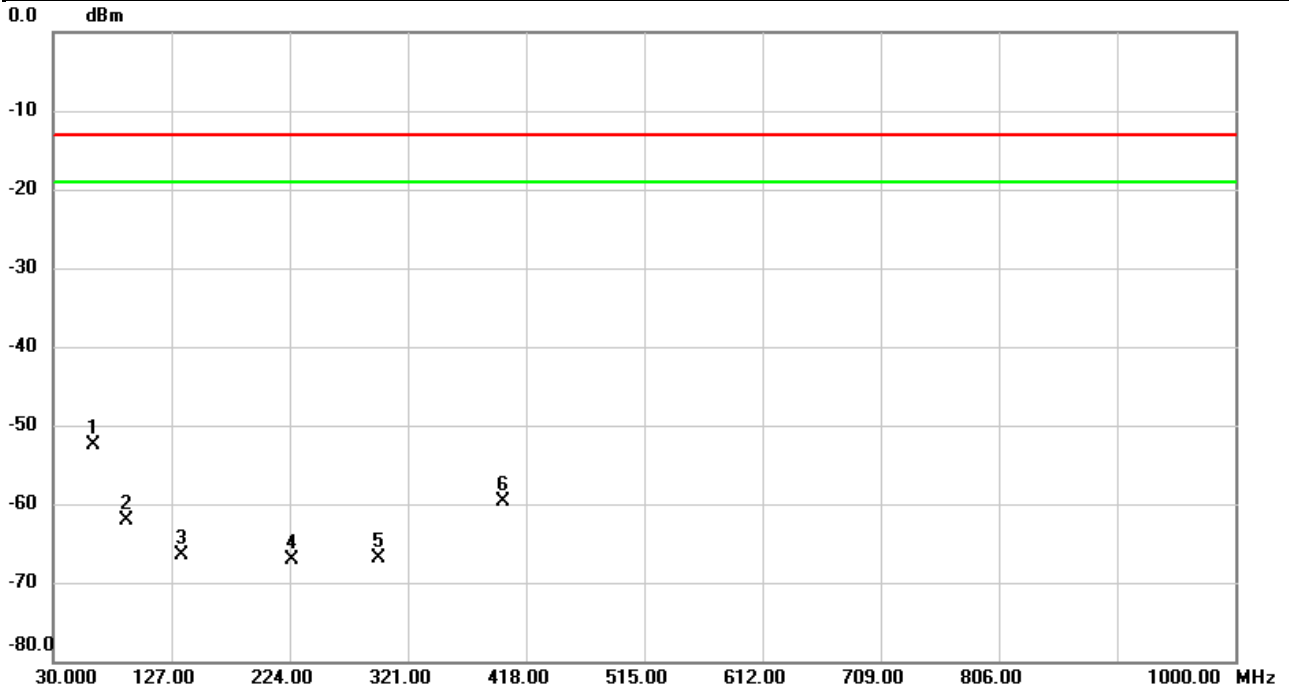


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5171.133	-41.95	2.38	-39.57	-13.00	-26.57	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/25
Test Channel	CH21100	Polarization	Horizontal
Temp	21°C	Hum.	68%



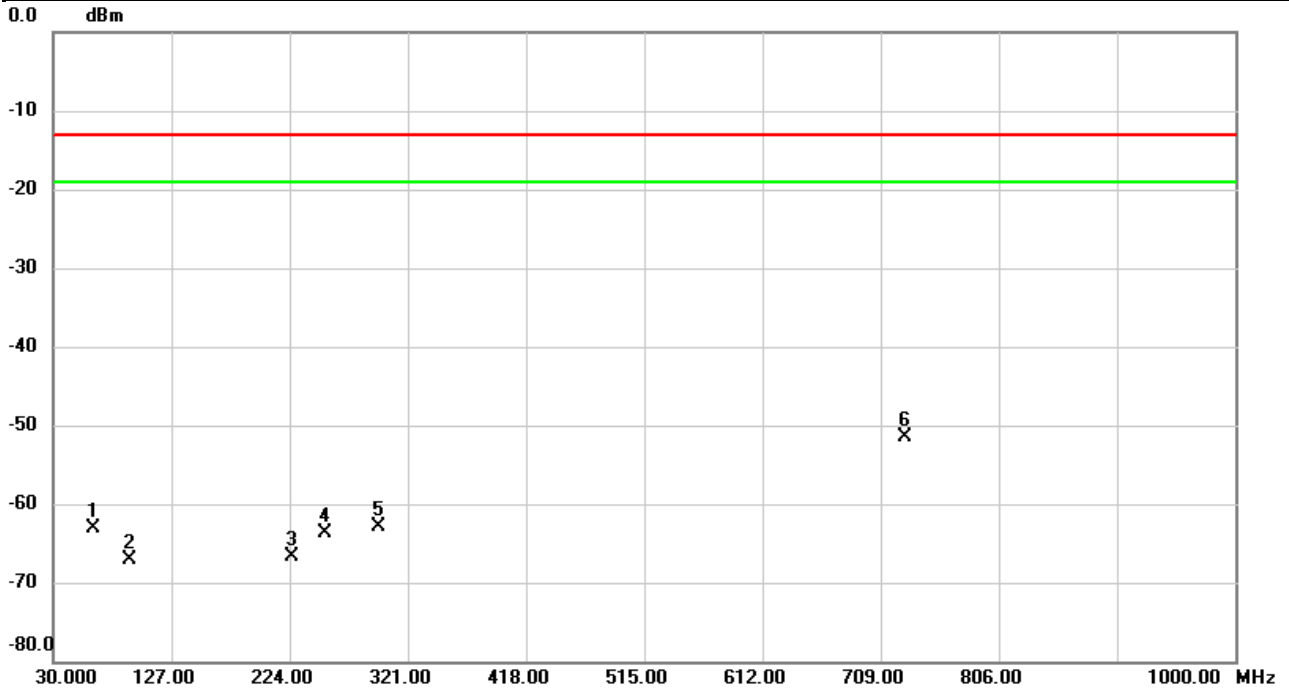
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-58.74	6.15	-52.59	-13.00	-39.59	peak	
2		90.1400	-65.80	3.66	-62.14	-13.00	-49.14	peak	
3		134.7600	-69.32	2.79	-66.53	-13.00	-53.53	peak	
4		225.9400	-66.39	-0.76	-67.15	-13.00	-54.15	peak	
5		296.7500	-67.71	0.76	-66.95	-13.00	-53.95	peak	
6		398.6000	-65.82	6.12	-59.70	-13.00	-46.70	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/25
Test Channel	CH21100	Polarization	Vertical
Temp	21°C	Hum.	68%

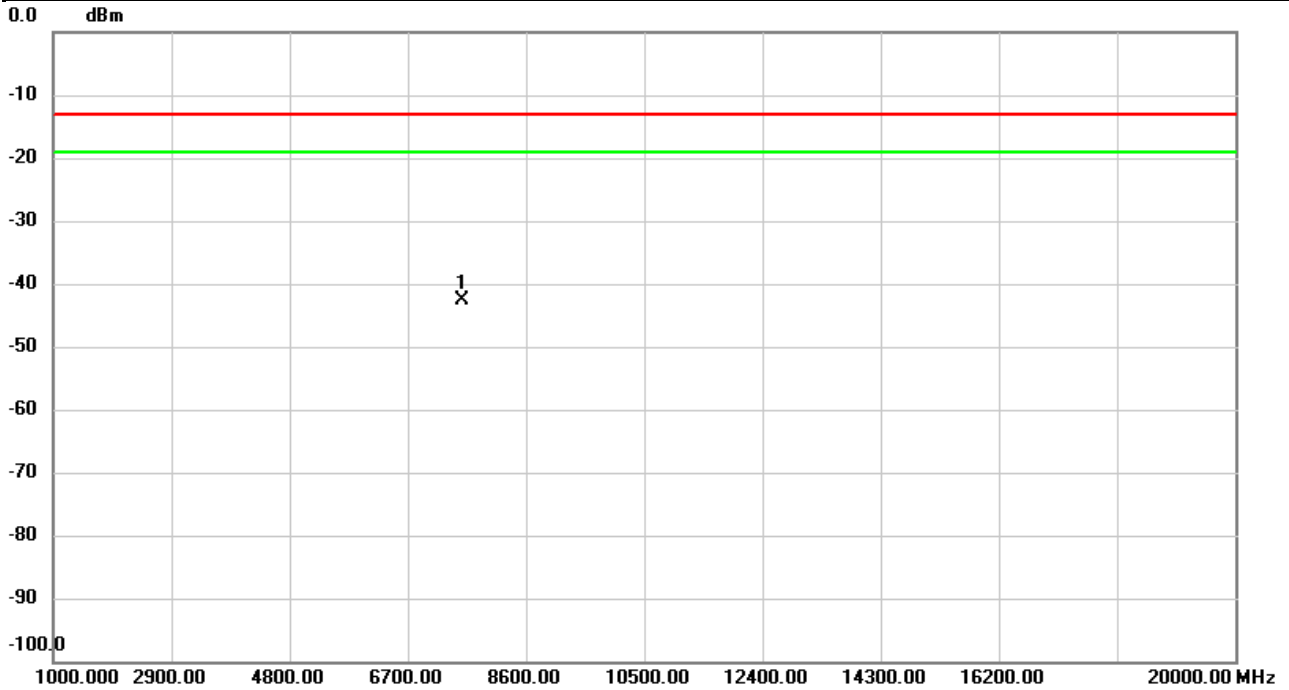


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		62.9800	-61.36	-1.65	-63.01	-13.00	-50.01	peak	
2		92.0800	-66.04	-1.08	-67.12	-13.00	-54.12	peak	
3		225.9400	-70.40	3.63	-66.77	-13.00	-53.77	peak	
4		253.1000	-71.45	7.72	-63.73	-13.00	-50.73	peak	
5		296.7500	-70.50	7.62	-62.88	-13.00	-49.88	peak	
6	*	729.3700	-63.55	12.01	-51.54	-13.00	-38.54	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21100	Polarization	Vertical
Temp	21°C	Hum.	68%

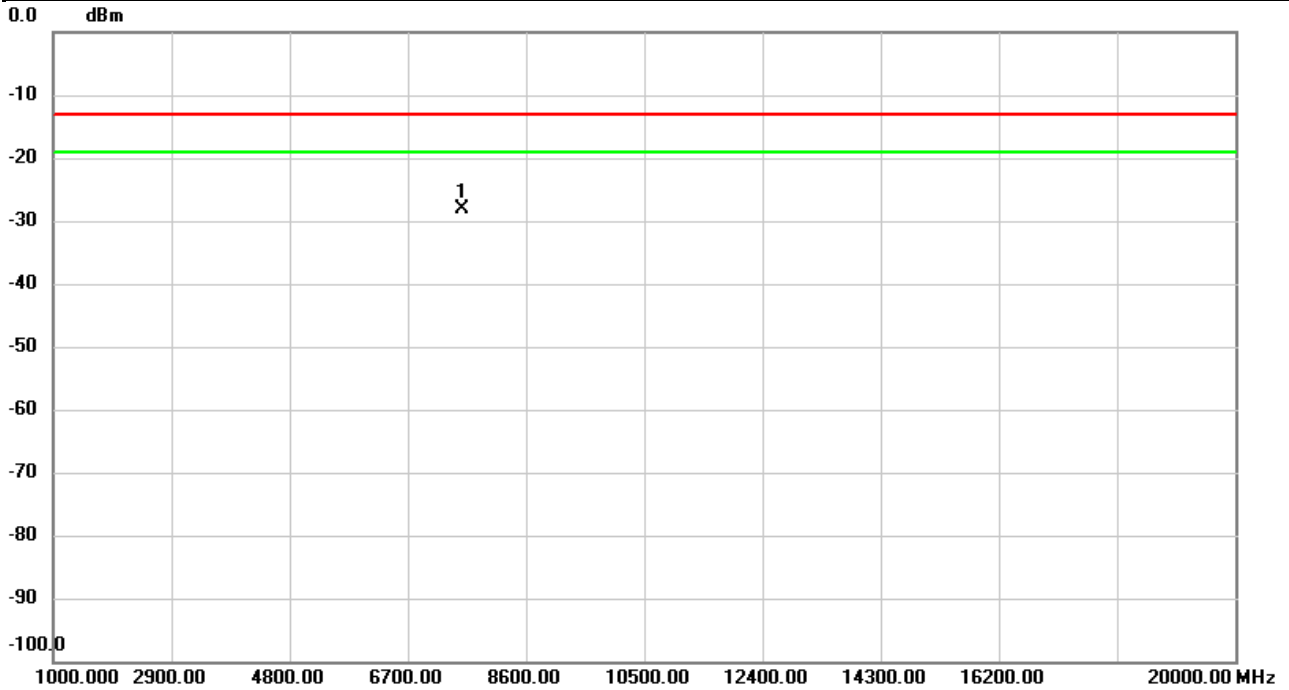


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	7578.433	-50.18	7.55	-42.63	-13.00	-29.63	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 7 (QPSK)	Test Date	2021/3/24
Test Channel	CH21100	Polarization	Horizontal
Temp	21°C	Hum.	68%

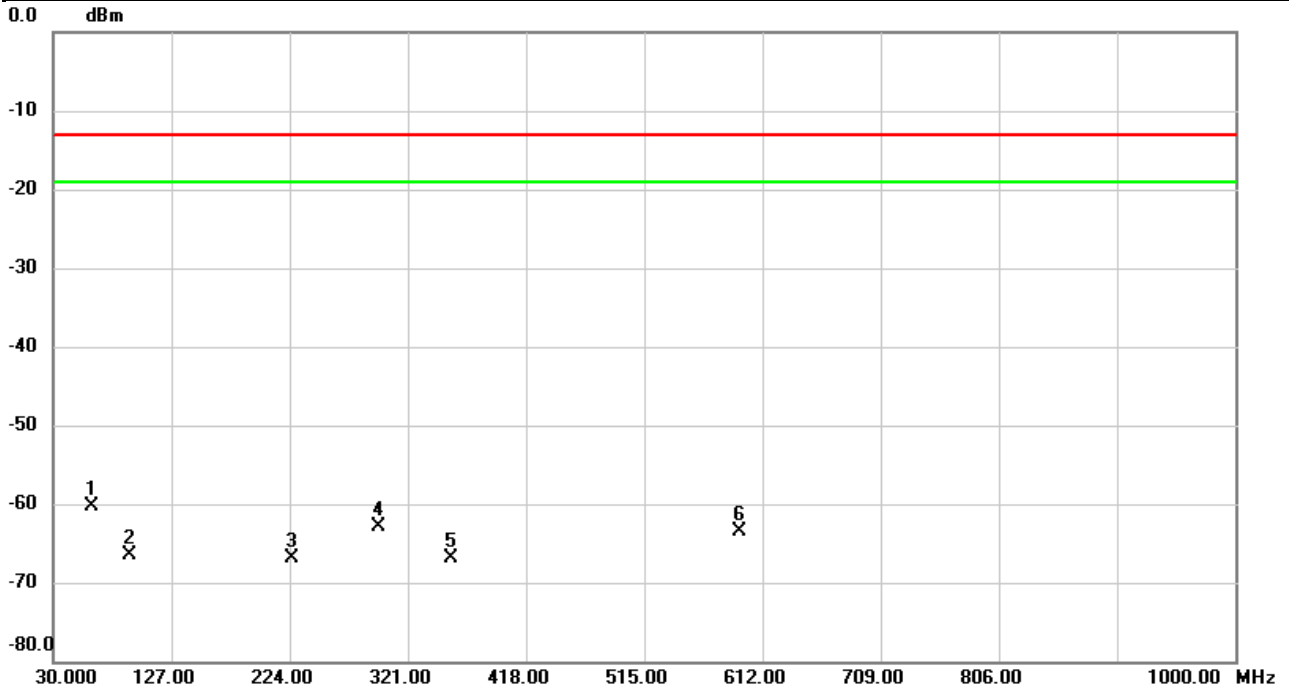


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	7578.433	-35.99	7.93	-28.06	-13.00	-15.06	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Vertical
Temp	21°C	Hum.	68%

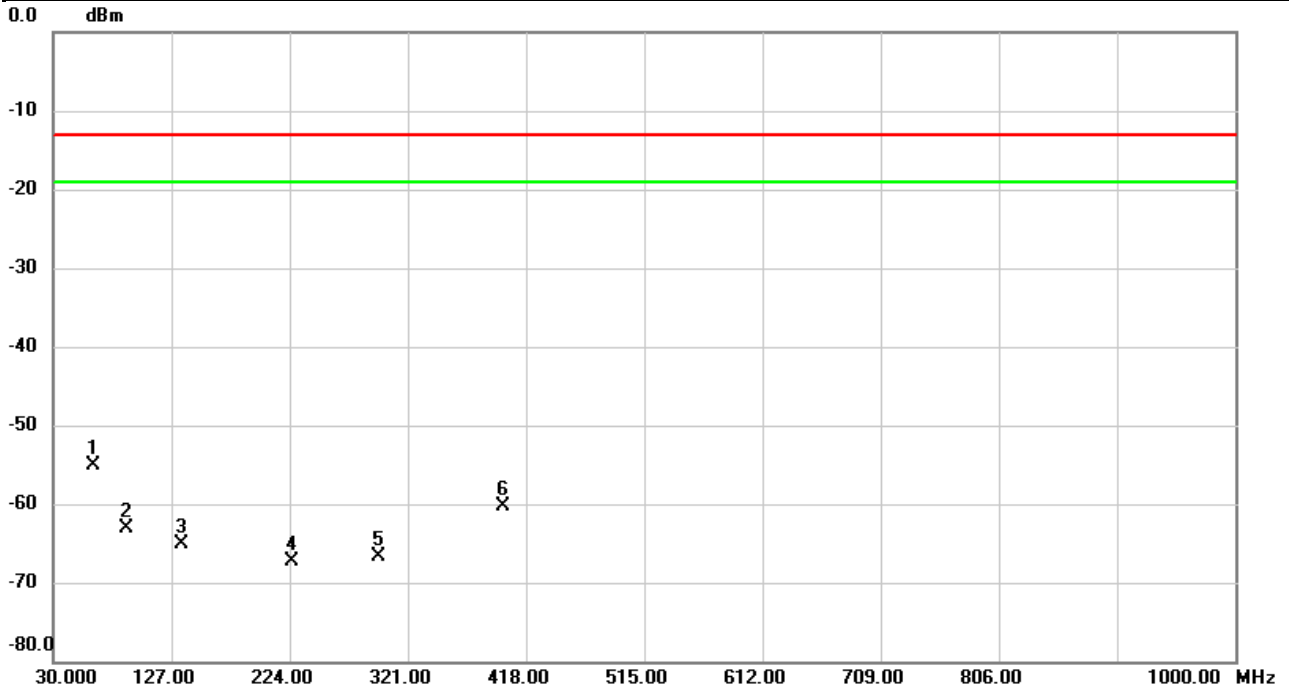


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	61.0400	-58.95	-1.44	-60.39	-13.00	-47.39	peak	
2		92.0800	-65.44	-1.08	-66.52	-13.00	-53.52	peak	
3		225.9400	-70.49	3.63	-66.86	-13.00	-53.86	peak	
4		296.7500	-70.61	7.62	-62.99	-13.00	-49.99	peak	
5		355.9200	-73.01	6.14	-66.87	-13.00	-53.87	peak	
6		593.5700	-75.32	11.75	-63.57	-13.00	-50.57	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Horizontal
Temp	21°C	Hum.	68%

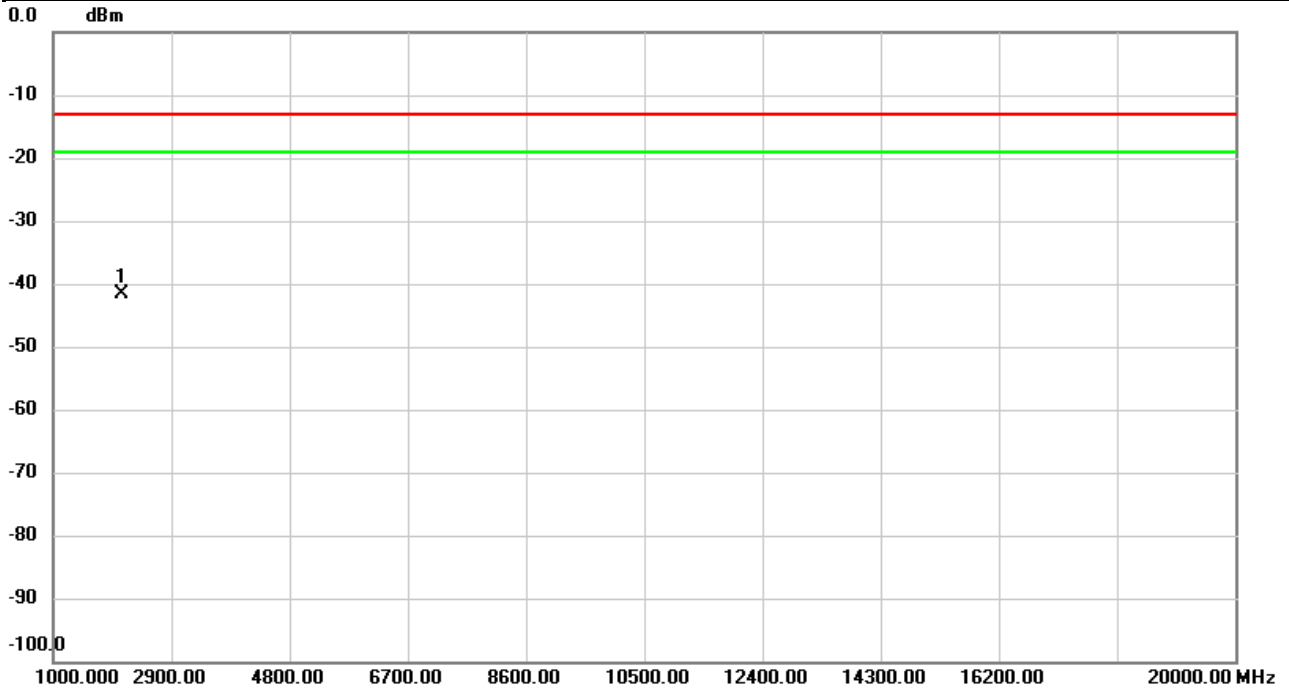


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-61.31	6.15	-55.16	-13.00	-42.16	peak	
2		90.1400	-66.78	3.66	-63.12	-13.00	-50.12	peak	
3		134.7600	-67.82	2.79	-65.03	-13.00	-52.03	peak	
4		225.9400	-66.52	-0.76	-67.28	-13.00	-54.28	peak	
5		296.7500	-67.52	0.76	-66.76	-13.00	-53.76	peak	
6		398.6000	-66.49	6.12	-60.37	-13.00	-47.37	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Vertical
Temp	21°C	Hum.	68%

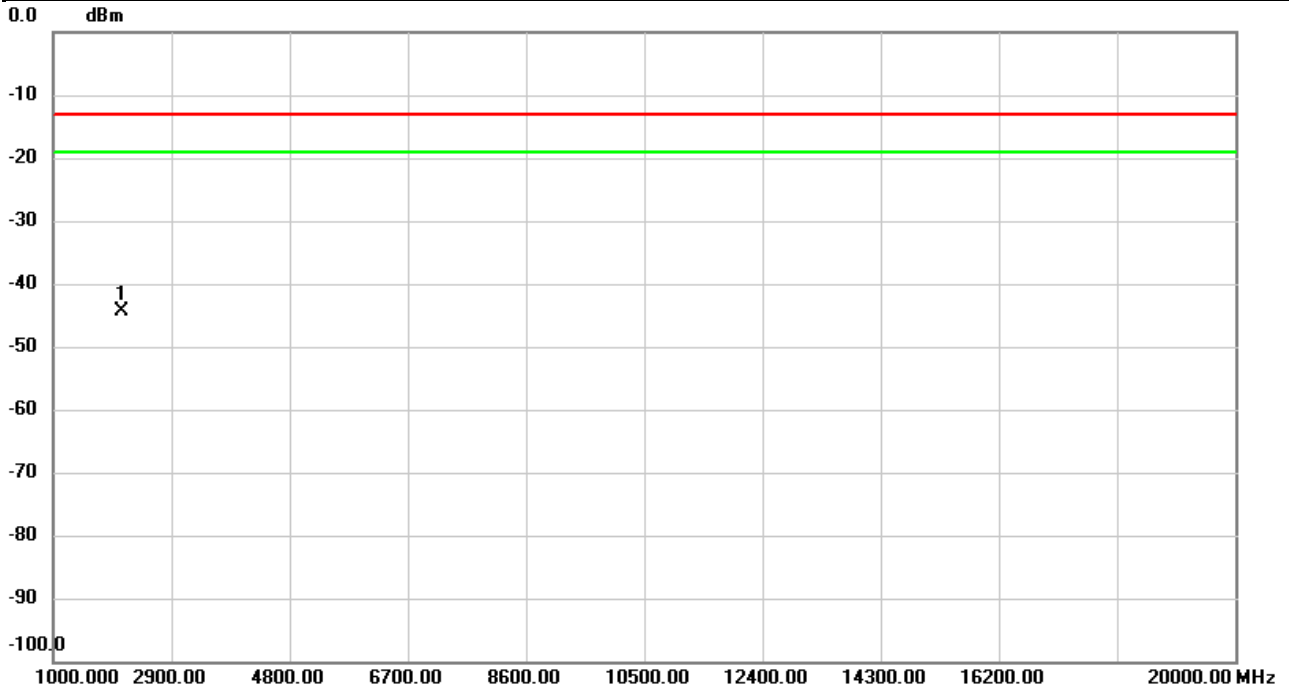


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2109.600	-36.53	-5.18	-41.71	-13.00	-28.71	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 12 (QPSK)	Test Date	2021/3/25
Test Channel	CH23095	Polarization	Horizontal
Temp	21°C	Hum.	68%

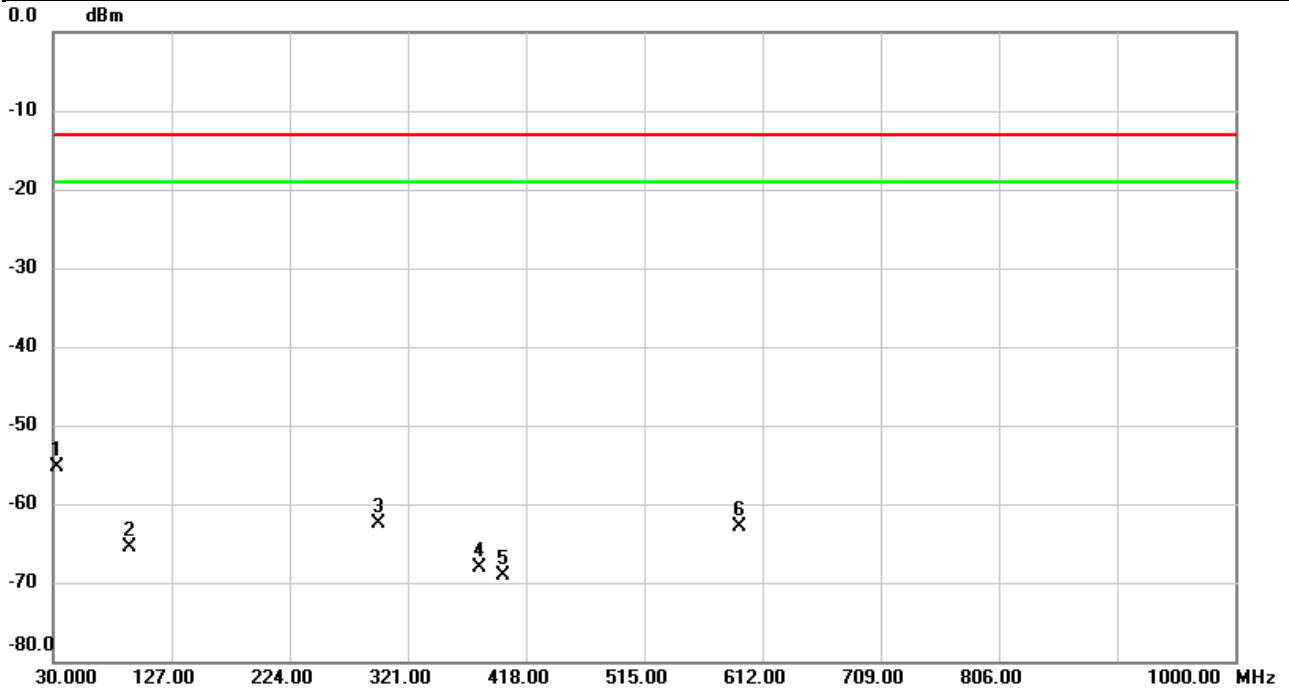


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2109.600	-38.82	-5.57	-44.39	-13.00	-31.39	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 13 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Vertical
Temp	21°C	Hum.	68%



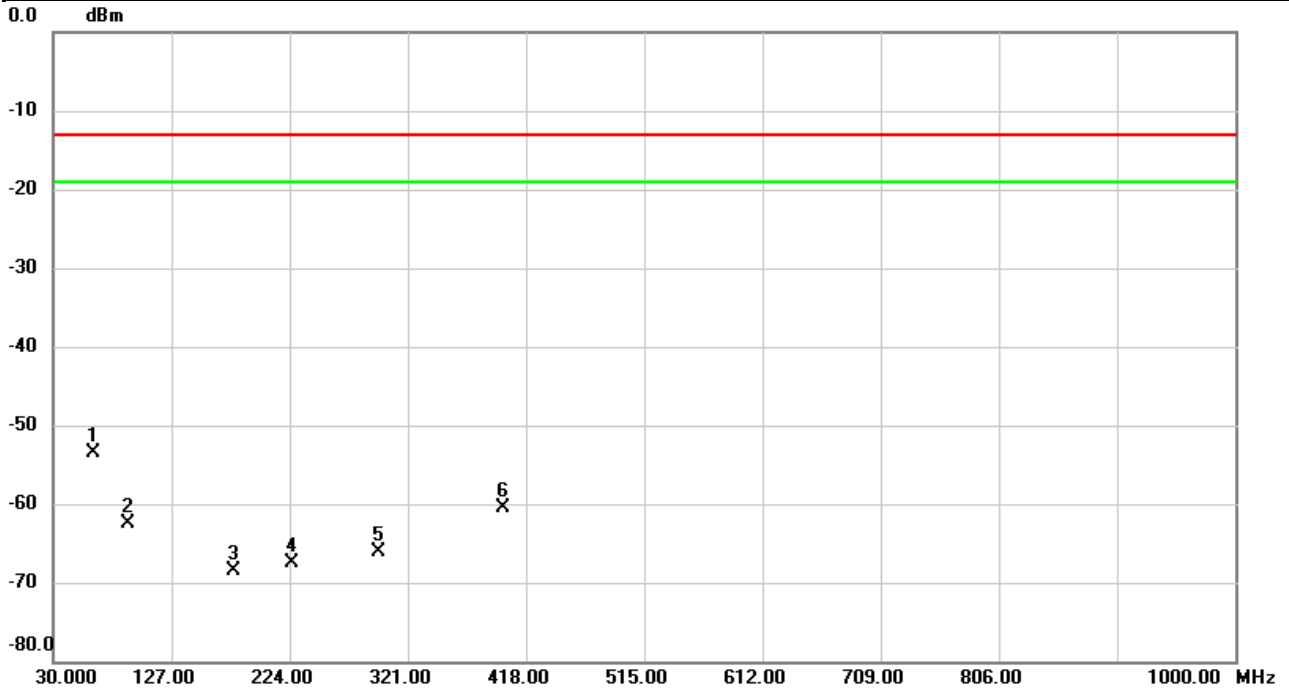
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	32.9100	-51.45	-3.84	-55.29	-13.00	-42.29	peak	
2		93.0500	-64.67	-0.85	-65.52	-13.00	-52.52	peak	
3		296.7500	-70.07	7.62	-62.45	-13.00	-49.45	peak	
4		380.1700	-72.10	4.09	-68.01	-13.00	-55.01	peak	
5		398.6000	-71.59	2.53	-69.06	-13.00	-56.06	peak	
6		593.5700	-74.62	11.75	-62.87	-13.00	-49.87	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Horizontal
Temp	21°C	Hum.	68%

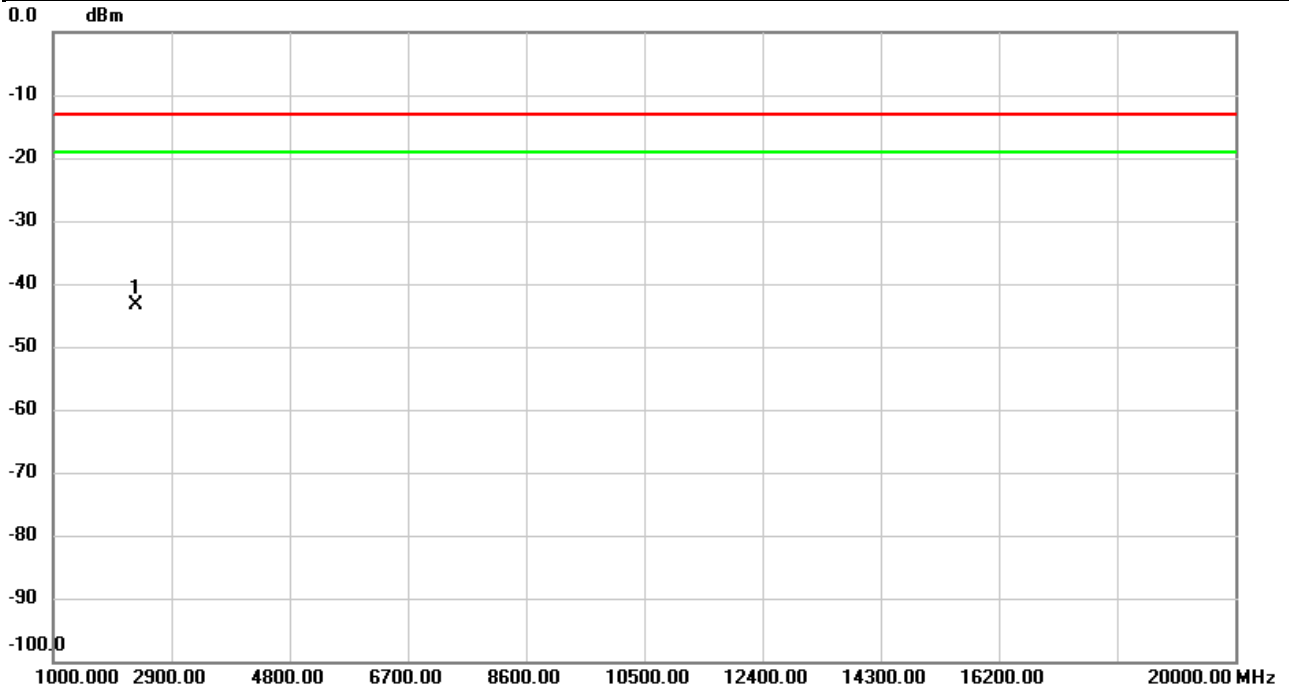


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-59.64	6.15	-53.49	-13.00	-40.49	peak	
2		91.1100	-66.14	3.63	-62.51	-13.00	-49.51	peak	
3		178.4100	-70.14	1.58	-68.56	-13.00	-55.56	peak	
4		225.9400	-66.74	-0.76	-67.50	-13.00	-54.50	peak	
5		296.7500	-66.79	0.76	-66.03	-13.00	-53.03	peak	
6		398.6000	-66.70	6.12	-60.58	-13.00	-47.58	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 13 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Vertical
Temp	21°C	Hum.	68%

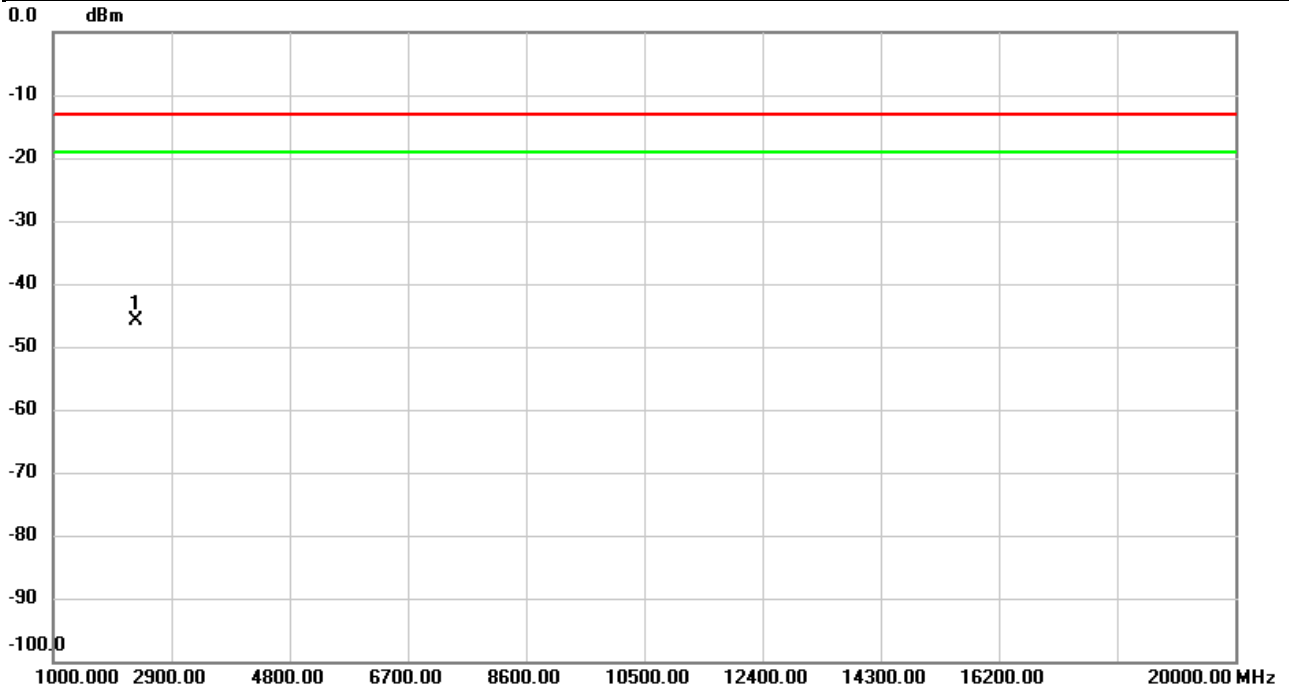


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2333.167	-39.30	-3.99	-43.29	-13.00	-30.29	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 13 (QPSK)	Test Date	2021/3/25
Test Channel	CH23230	Polarization	Horizontal
Temp	21°C	Hum.	68%

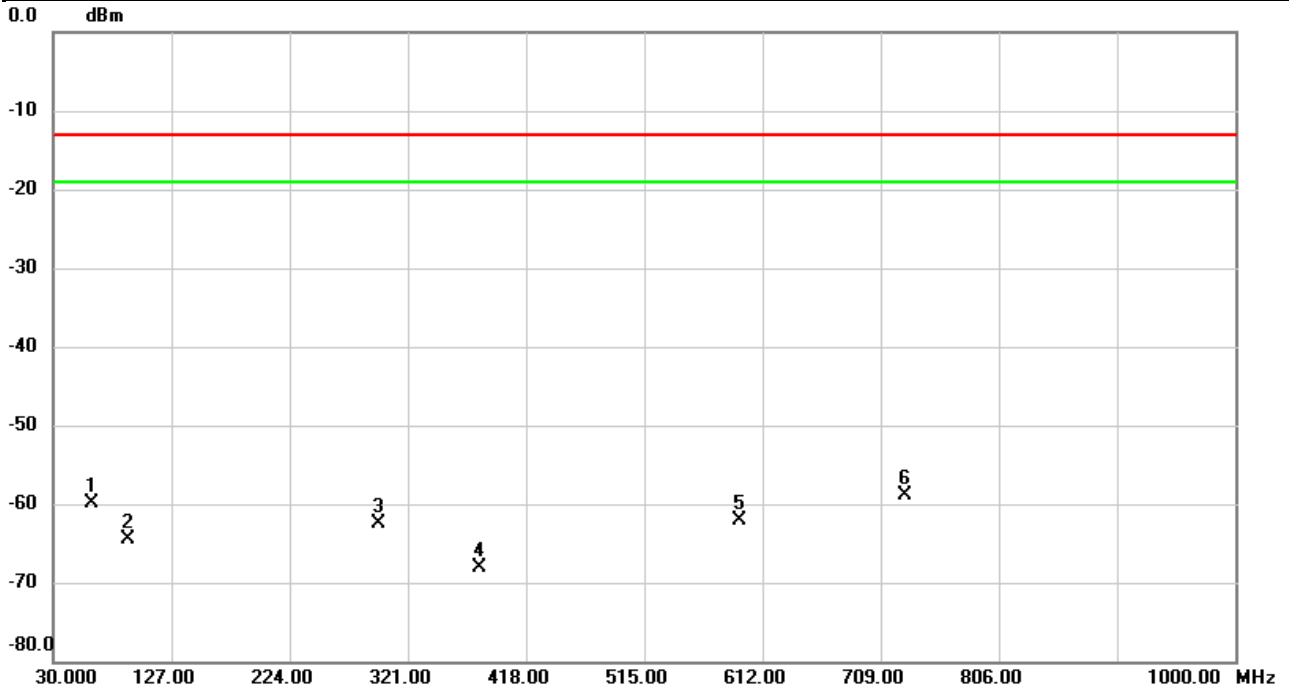


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2333.167	-41.28	-4.65	-45.93	-13.00	-32.93	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Vertical
Temp	21°C	Hum.	68%

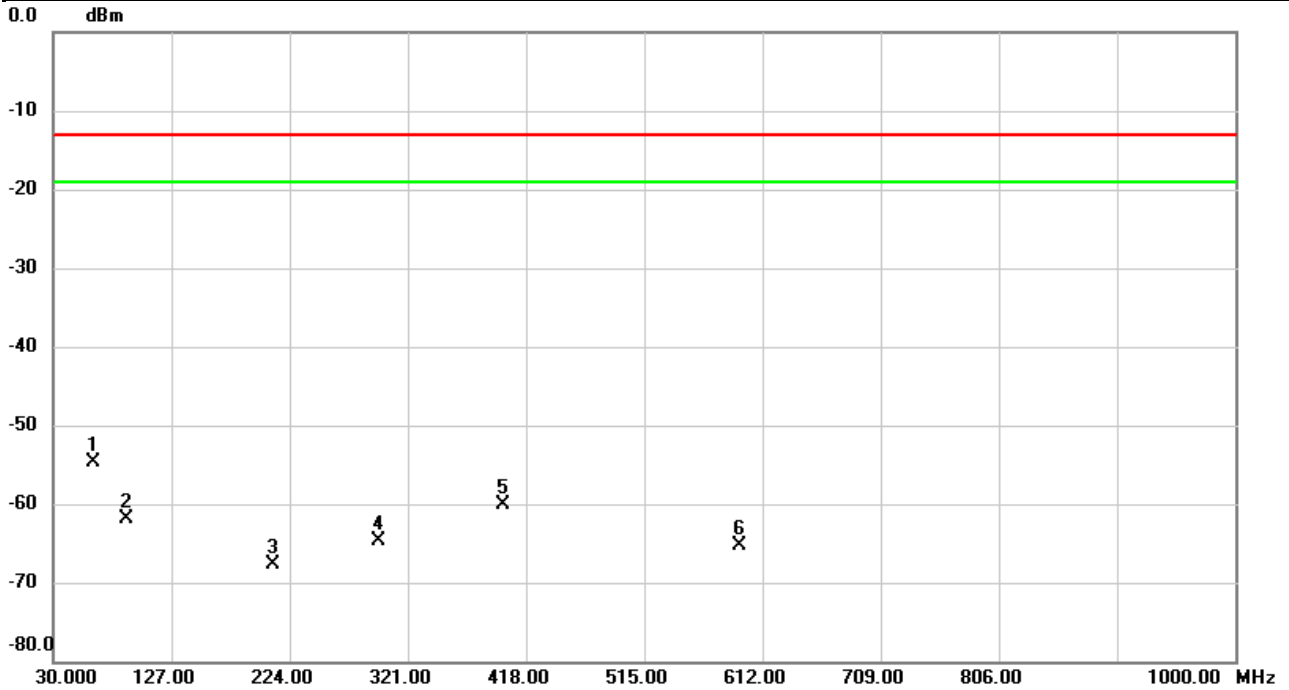


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		61.5250	-58.34	-1.50	-59.84	-13.00	-46.84	peak	
2		91.7567	-63.34	-1.16	-64.50	-13.00	-51.50	peak	
3		296.7177	-70.15	7.62	-62.53	-13.00	-49.53	peak	
4		379.6527	-72.15	4.13	-68.02	-13.00	-55.02	peak	
5		593.4083	-73.82	11.74	-62.08	-13.00	-49.08	peak	
6	*	729.3377	-70.87	12.01	-58.86	-13.00	-45.86	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Horizontal
Temp	21°C	Hum.	68%

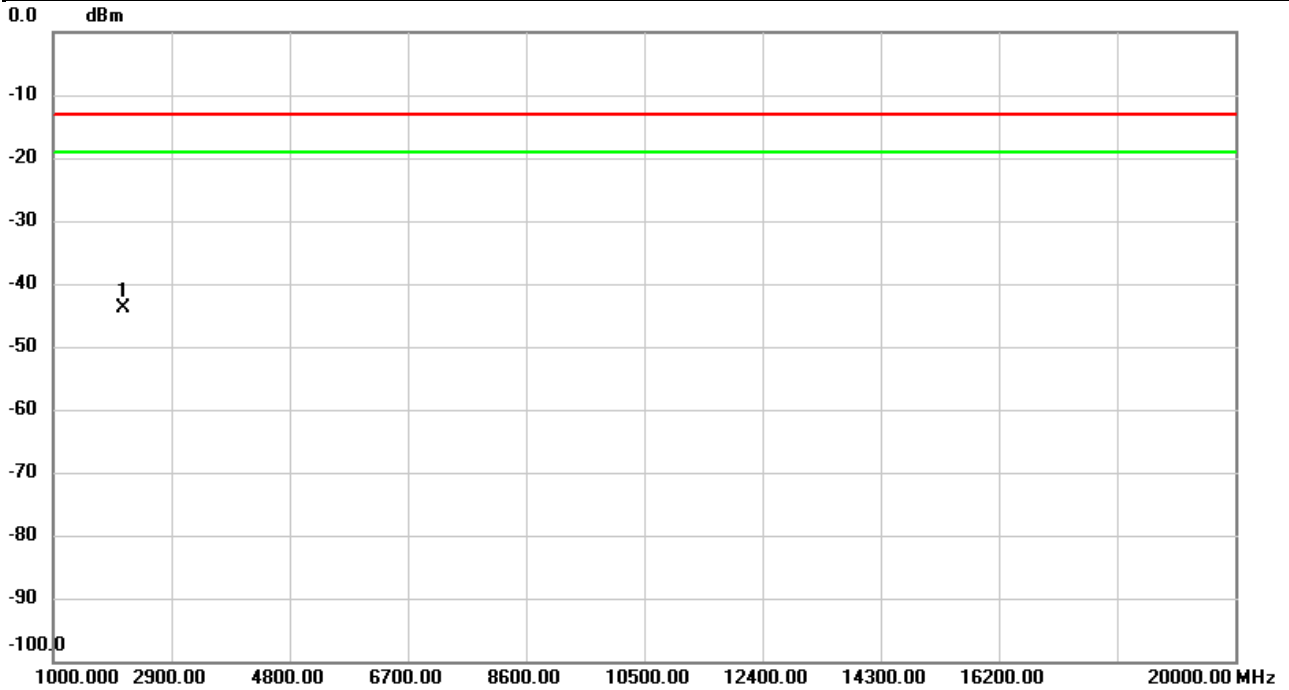


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	63.0123	-60.79	6.14	-54.65	-13.00	-41.65	peak	
2		89.8813	-65.61	3.68	-61.93	-13.00	-48.93	peak	
3		209.9673	-65.59	-2.05	-67.64	-13.00	-54.64	peak	
4		296.7175	-65.55	0.76	-64.79	-13.00	-51.79	peak	
5		399.8933	-66.19	6.18	-60.01	-13.00	-47.01	peak	
6		593.4083	-72.82	7.45	-65.37	-13.00	-52.37	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Vertical
Temp	21°C	Hum.	68%

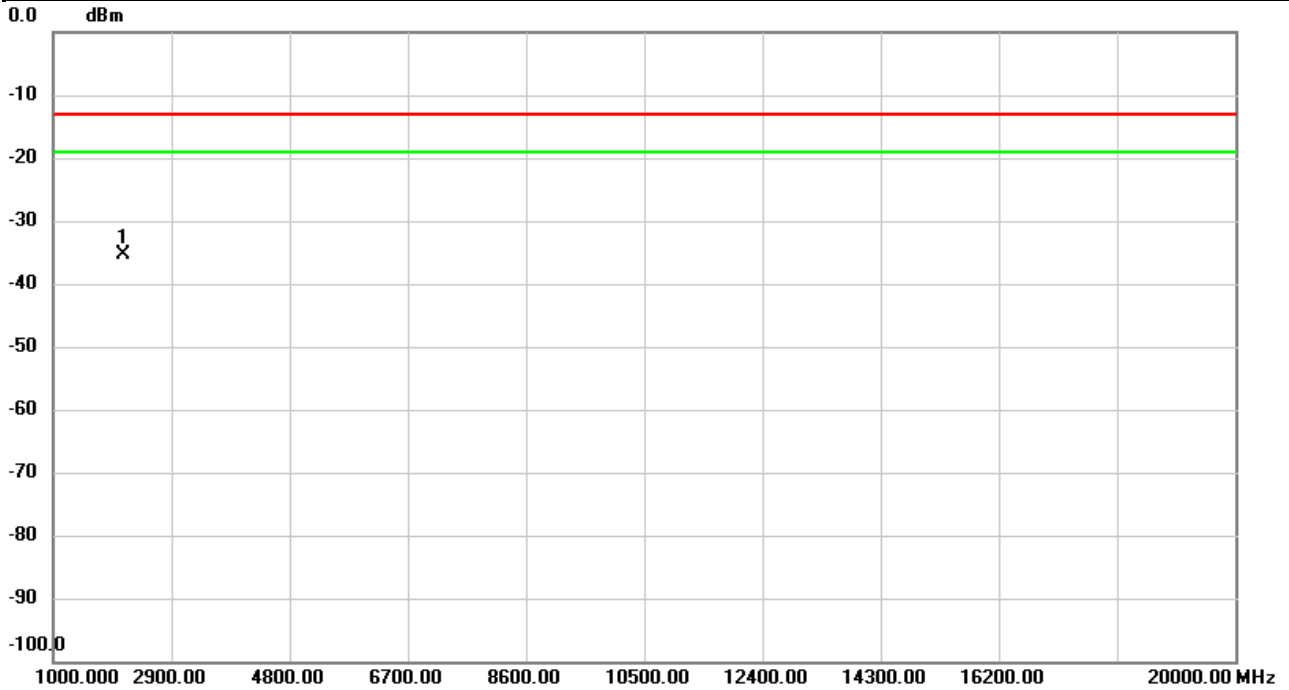


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2117.200	-38.80	-5.04	-43.84	-13.00	-30.84	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 17 (QPSK)	Test Date	2021/3/25
Test Channel	CH23790	Polarization	Horizontal
Temp	21°C	Hum.	68%

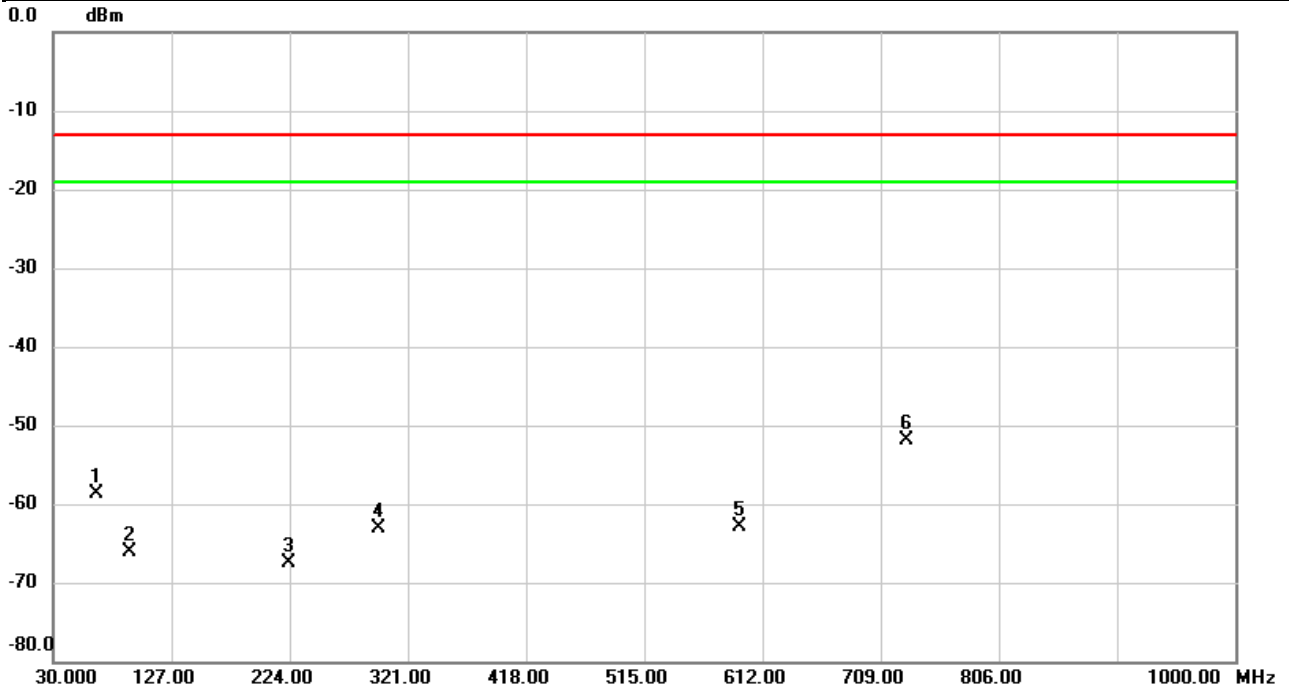


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2117.200	-29.77	-5.51	-35.28	-13.00	-22.28	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/25
Test Channel	CH27710	Polarization	Vertical
Temp	21°C	Hum.	68%



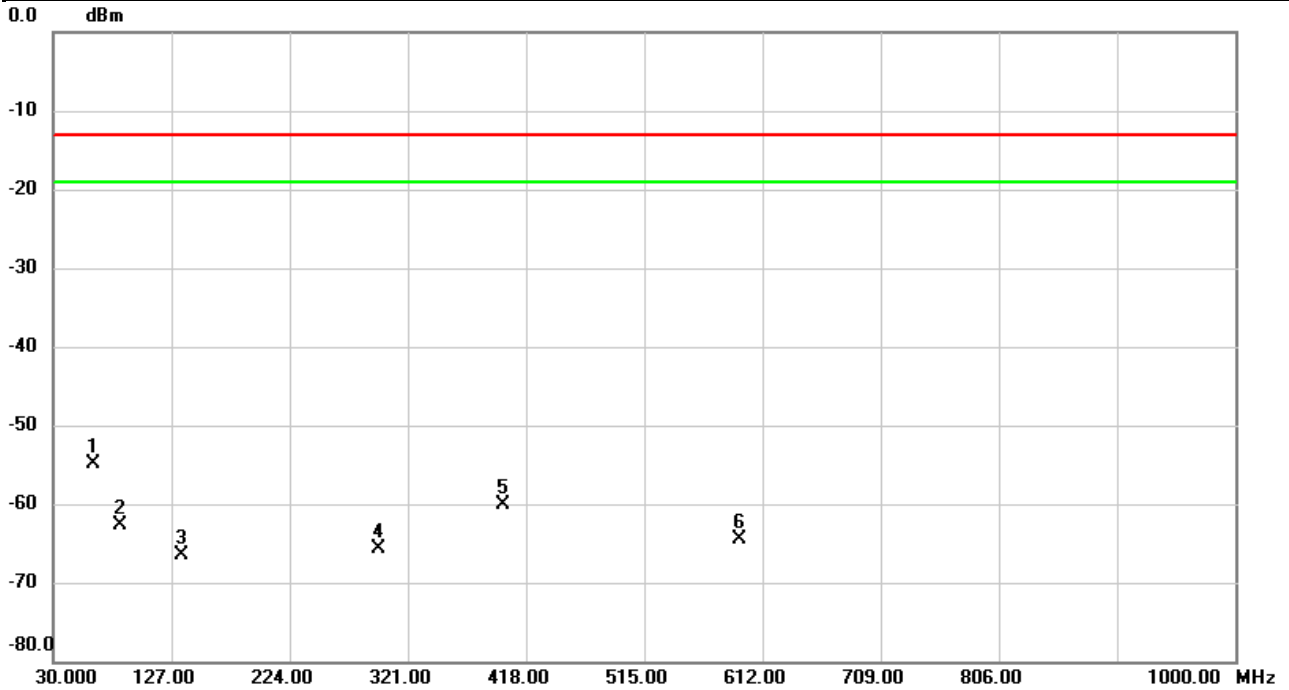
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		64.9200	-56.89	-1.87	-58.76	-13.00	-45.76	peak	
2		93.0500	-65.25	-0.85	-66.10	-13.00	-53.10	peak	
3		223.0300	-71.11	3.54	-67.57	-13.00	-54.57	peak	
4		296.7500	-70.77	7.62	-63.15	-13.00	-50.15	peak	
5		593.5700	-74.69	11.75	-62.94	-13.00	-49.94	peak	
6	*	730.3400	-63.94	11.99	-51.95	-13.00	-38.95	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/25
Test Channel	CH27710	Polarization	Horizontal
Temp	21°C	Hum.	68%

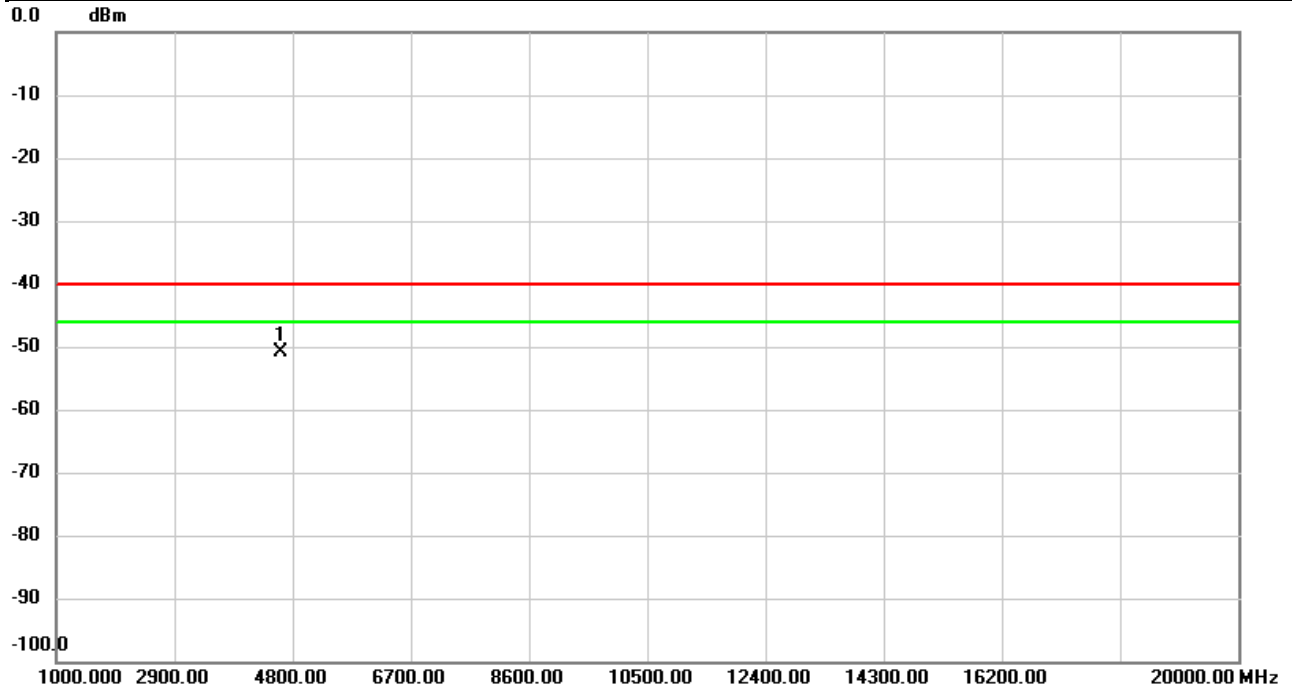


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-60.99	6.15	-54.84	-13.00	-41.84	peak	
2		84.3200	-67.61	4.85	-62.76	-13.00	-49.76	peak	
3		135.7300	-69.28	2.78	-66.50	-13.00	-53.50	peak	
4		296.7500	-66.48	0.76	-65.72	-13.00	-52.72	peak	
5		398.6000	-66.28	6.12	-60.16	-13.00	-47.16	peak	
6		593.5700	-71.97	7.44	-64.53	-13.00	-51.53	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

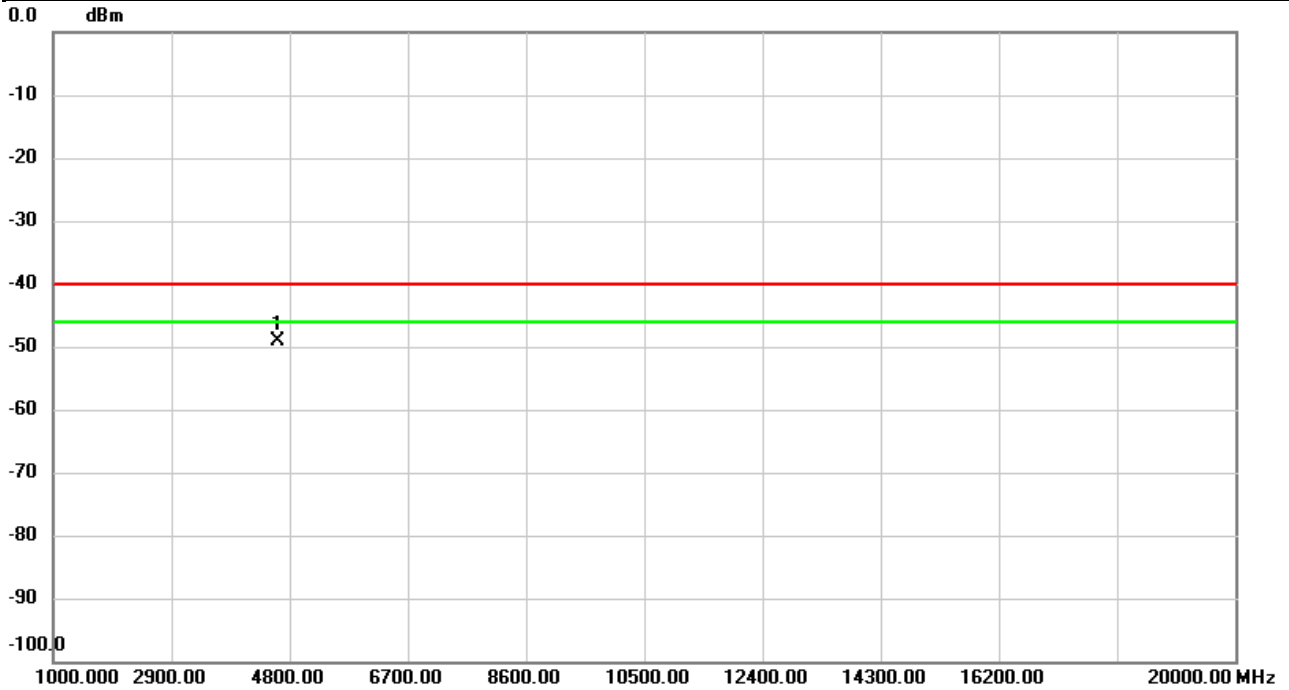
Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/24
Test Channel	CH27710	Polarization	Vertical
Temp	21°C	Hum.	68%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	4610.000	-51.41	0.43	-50.98	-40.00	-10.98	peak	

REMARKS:  
 (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 30 (QPSK)	Test Date	2021/3/24
Test Channel	CH27710	Polarization	Horizontal
Temp	21°C	Hum.	68%

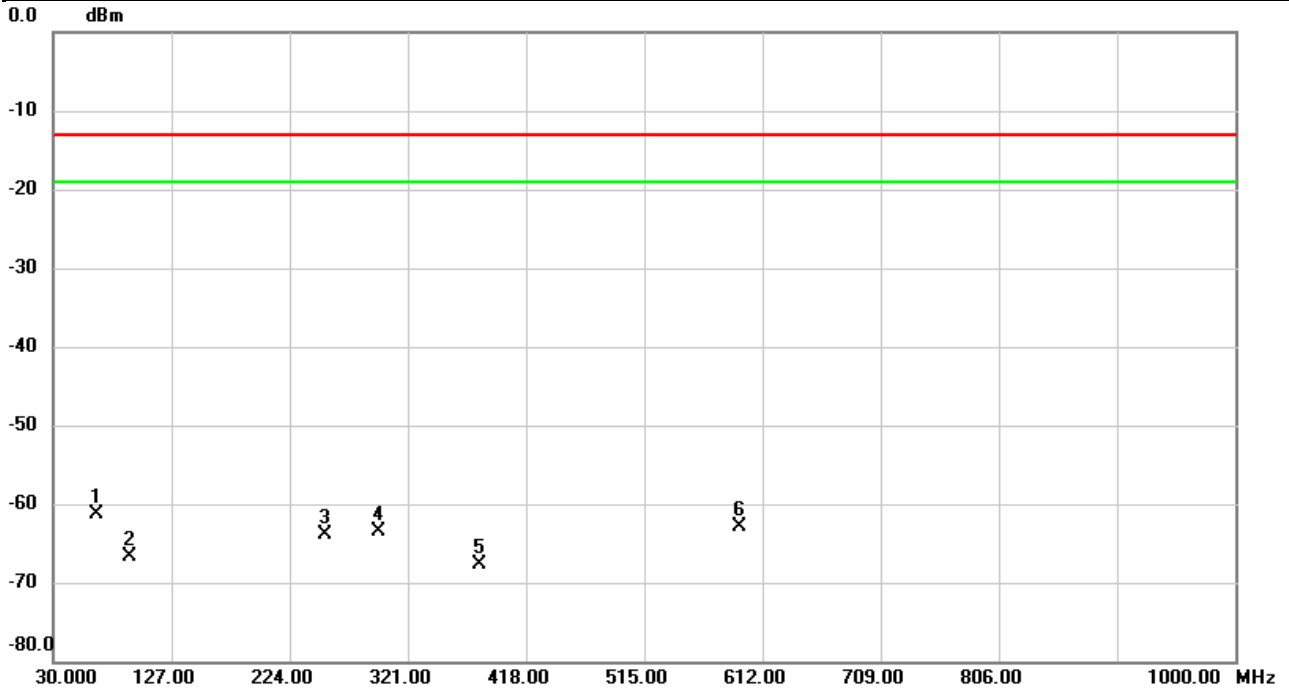


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	4610.000	-50.65	1.49	-49.16	-40.00	-9.16	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/25
Test Channel	CH40620	Polarization	Vertical
Temp	21°C	Hum.	68%

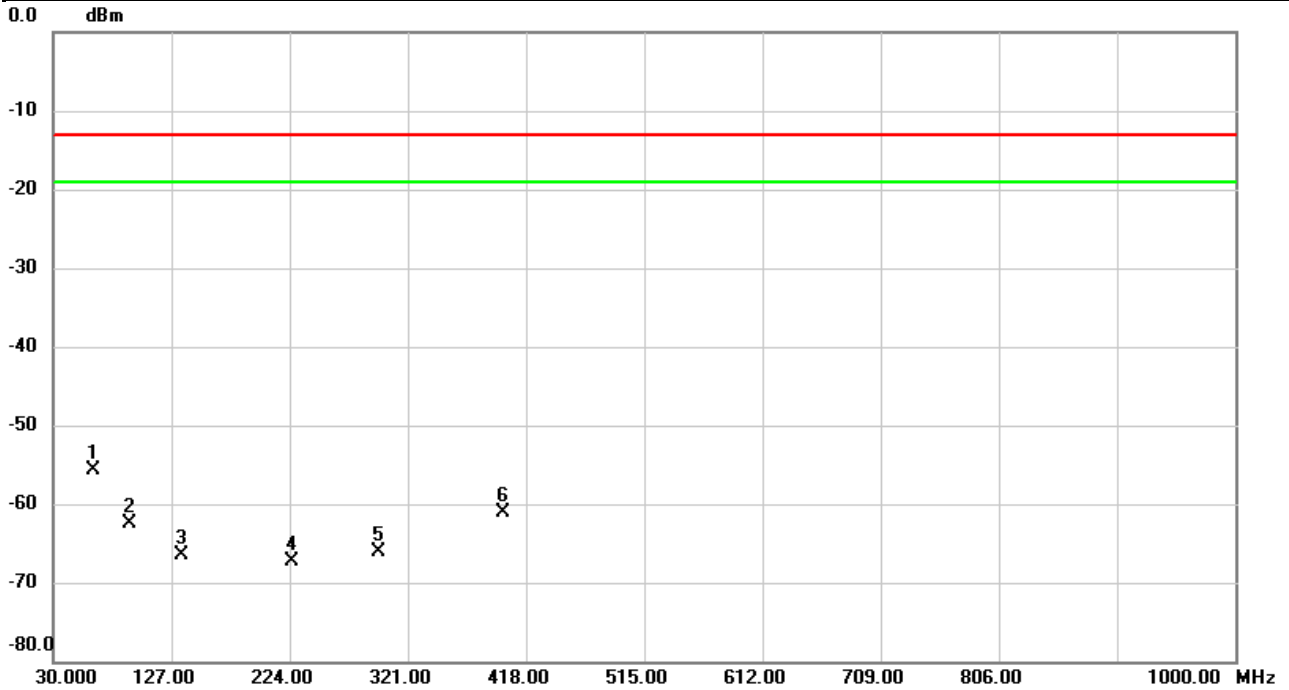


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	64.9200	-59.34	-1.87	-61.21	-13.00	-48.21	peak	
2		93.0500	-65.91	-0.85	-66.76	-13.00	-53.76	peak	
3		253.1000	-71.70	7.72	-63.98	-13.00	-50.98	peak	
4		296.7500	-71.09	7.62	-63.47	-13.00	-50.47	peak	
5		379.2000	-71.96	4.17	-67.79	-13.00	-54.79	peak	
6		593.5700	-74.69	11.75	-62.94	-13.00	-49.94	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/25
Test Channel	CH40620	Polarization	Horizontal
Temp	21°C	Hum.	68%

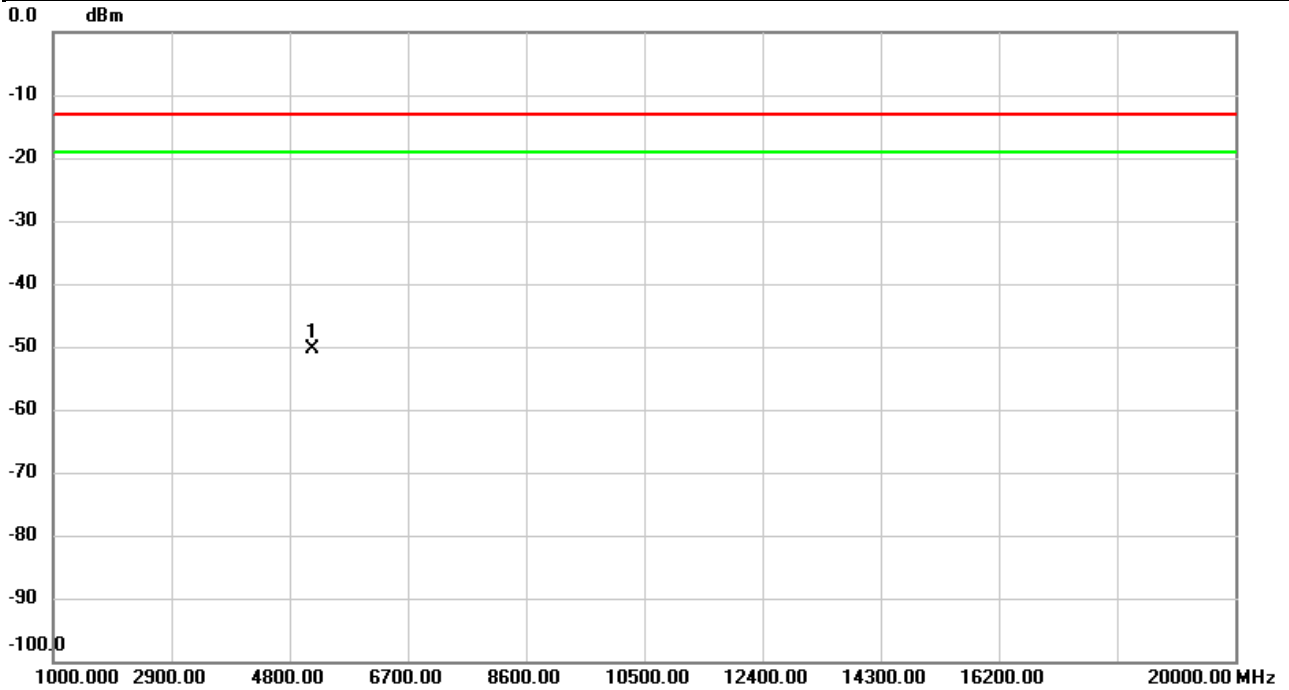


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-61.85	6.15	-55.70	-13.00	-42.70	peak	
2		92.0800	-66.19	3.60	-62.59	-13.00	-49.59	peak	
3		134.7600	-69.26	2.79	-66.47	-13.00	-53.47	peak	
4		225.9400	-66.55	-0.76	-67.31	-13.00	-54.31	peak	
5		296.7500	-66.77	0.76	-66.01	-13.00	-53.01	peak	
6		398.6000	-67.14	6.12	-61.02	-13.00	-48.02	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH40620	Polarization	Vertical
Temp	21°C	Hum.	68%

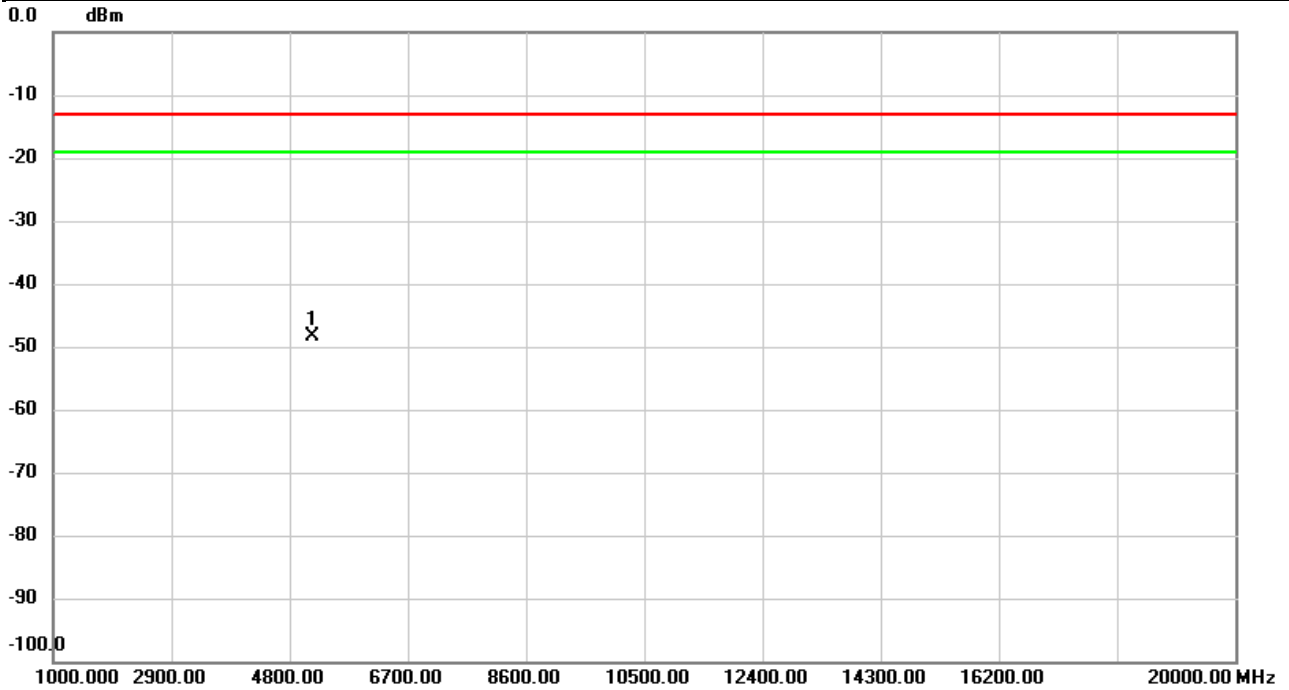


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5168.000	-52.16	1.82	-50.34	-13.00	-37.34	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 41 (QPSK)	Test Date	2021/3/24
Test Channel	CH40620	Polarization	Horizontal
Temp	21°C	Hum.	68%

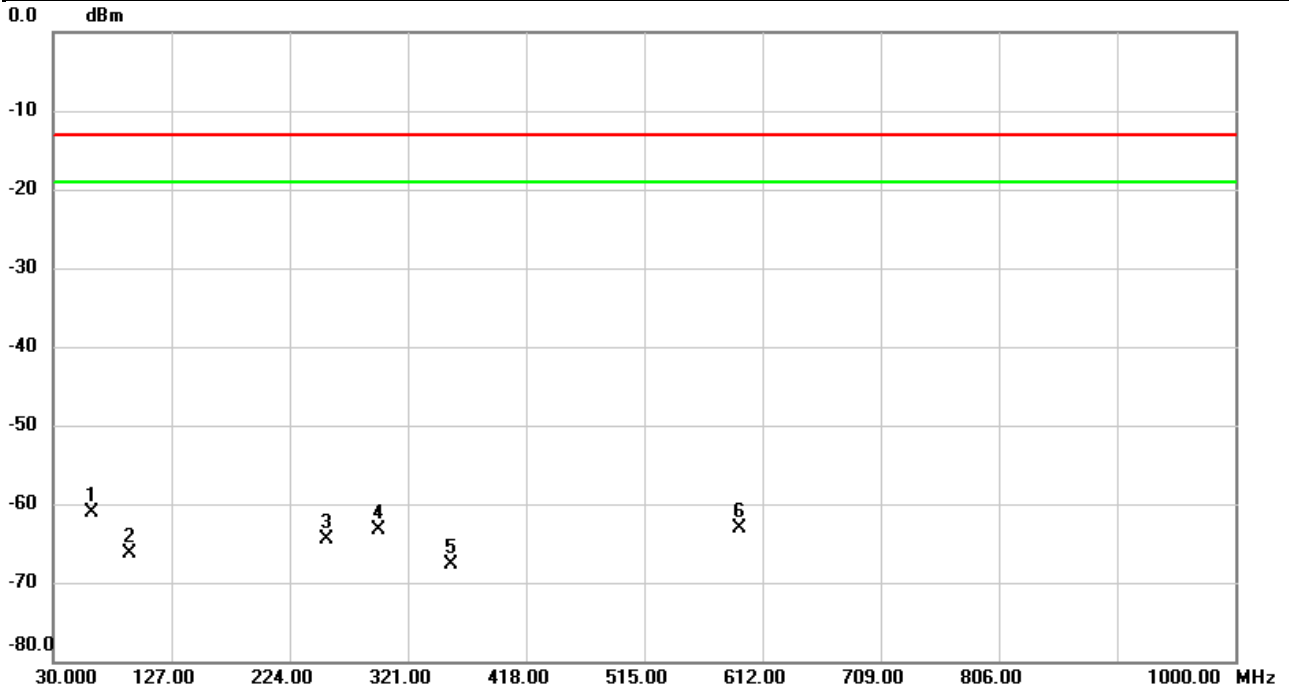


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5168.000	-50.75	2.37	-48.38	-13.00	-35.38	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/25
Test Channel	CH132322	Polarization	Vertical
Temp	21°C	Hum.	68%



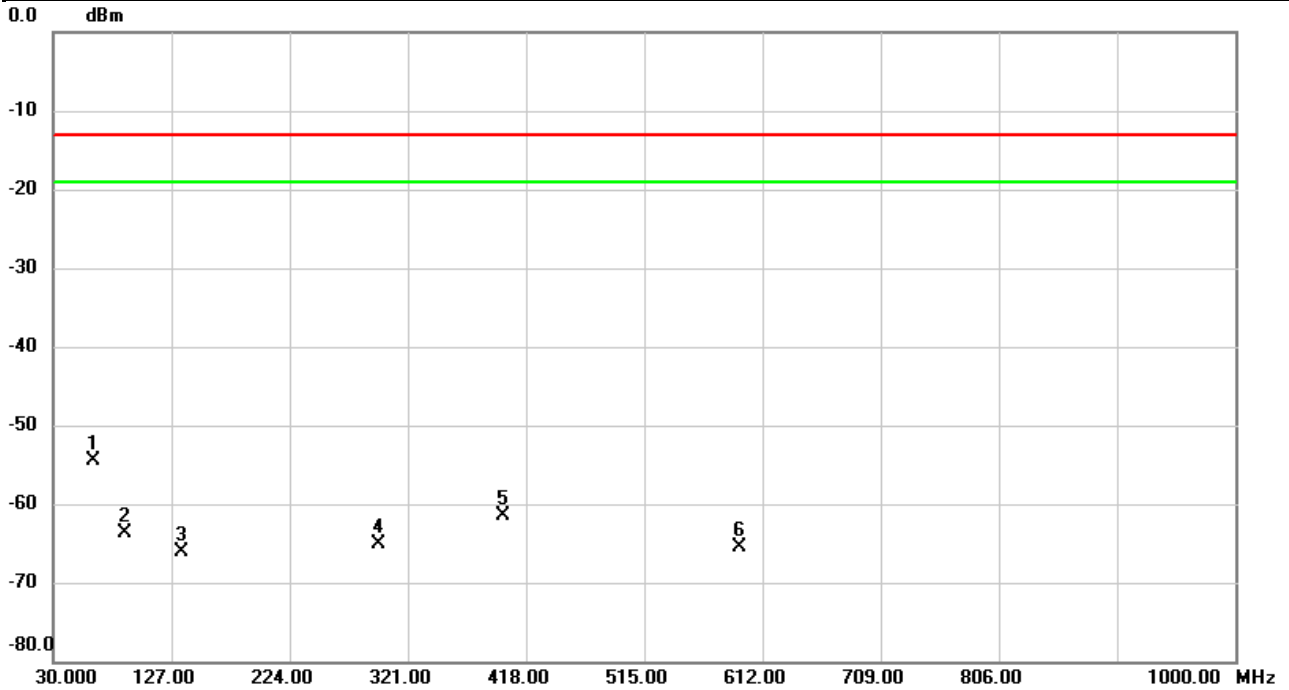
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	61.0400	-59.69	-1.44	-61.13	-13.00	-48.13	peak	
2		93.0500	-65.50	-0.85	-66.35	-13.00	-53.35	peak	
3		254.0700	-72.30	7.72	-64.58	-13.00	-51.58	peak	
4		296.7500	-70.96	7.62	-63.34	-13.00	-50.34	peak	
5		355.9200	-73.85	6.14	-67.71	-13.00	-54.71	peak	
6		593.5700	-74.82	11.75	-63.07	-13.00	-50.07	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/25
Test Channel	CH132322	Polarization	Horizontal
Temp	21°C	Hum.	68%

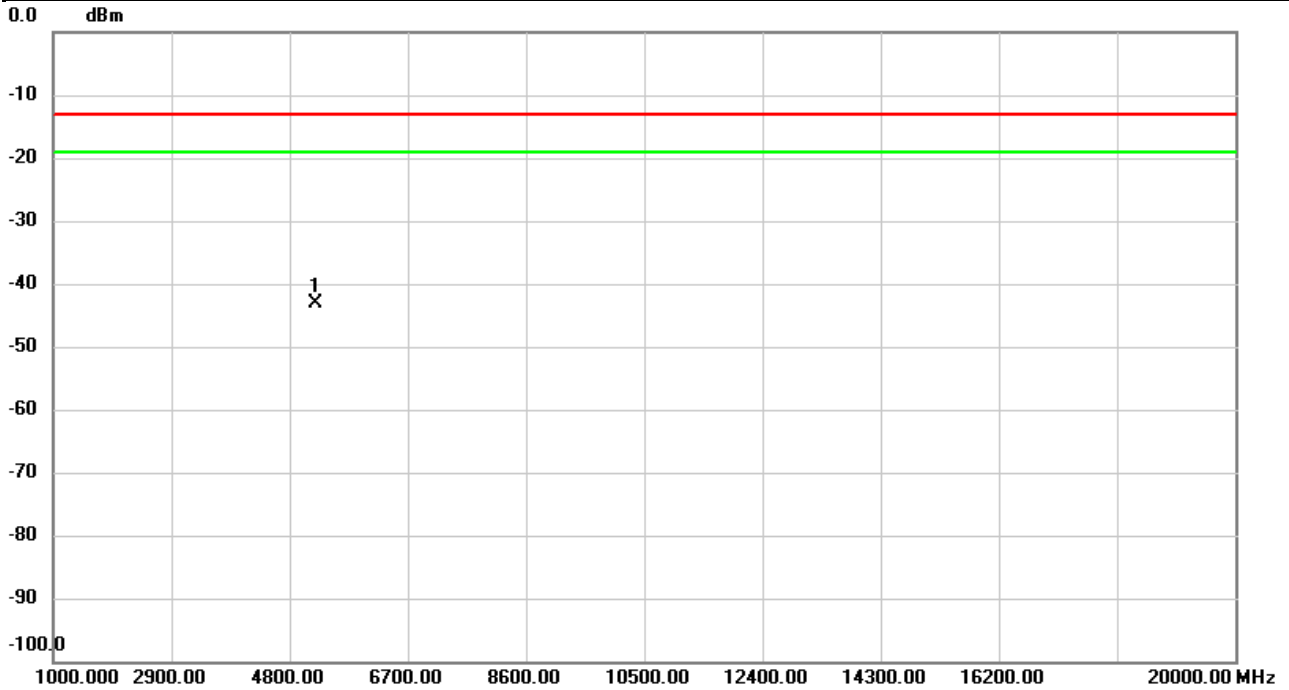


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	62.9800	-60.69	6.15	-54.54	-13.00	-41.54	peak	
2		88.2000	-67.64	4.04	-63.60	-13.00	-50.60	peak	
3		134.7600	-68.85	2.79	-66.06	-13.00	-53.06	peak	
4		296.7500	-65.91	0.76	-65.15	-13.00	-52.15	peak	
5		398.6000	-67.52	6.12	-61.40	-13.00	-48.40	peak	
6		593.5700	-72.97	7.44	-65.53	-13.00	-52.53	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132322	Polarization	Vertical
Temp	21°C	Hum.	68%

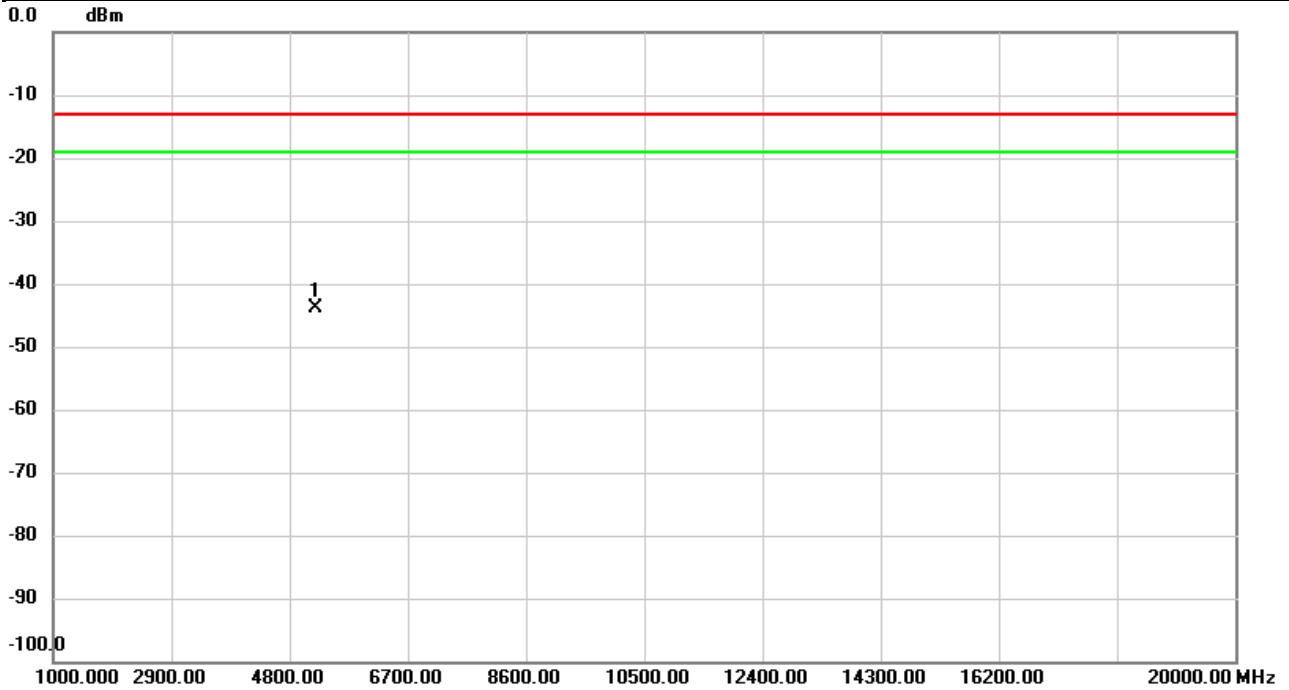


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5208.500	-44.67	1.46	-43.21	-13.00	-30.21	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 66 (QPSK)	Test Date	2021/3/24
Test Channel	CH132322	Polarization	Horizontal
Temp	21°C	Hum.	68%



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	5208.500	-46.36	2.39	-43.97	-13.00	-30.97	peak	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

**End of Test Report**