

FCC Radio Test Report

FCC ID: XMR2023RM520NGLM

Report No. : BTL-FCCP-7-2311T076
Equipment : 5G Sub-6 GHz M.2 Module
Model Name : RM520N-GL
Brand Name : Quectel
Applicant : Quectel Wireless Solutions Co., Ltd.
Address : Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

Radio Function : WCDMA Band V & LTE Band 5, 26

FCC Rule Part(s) : FCC CFR Title 47, Part 22, Subpart H

Date of Receipt : 2023/11/16
Date of Test : 2023/11/27 ~ 2024/1/12
Issued Date : 2024/1/31

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

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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	Note
BTL-FCCP-7-2311T076	R00	Original Report.	2024/1/31	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
2.1046 22.913(a)(5)	Effective Radiated Power	APPENDIX A	Pass	-----
2.1053 22.917(a)	Radiated Spurious Emissions	APPENDIX B	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 test report is issued for the RF module (FCCID: XMR2023RM520NGLM) to be incorporated to the host device (Model number: TP00160AL), Product name: Notebook Computer).
Since the RF module has been certificated, after evaluation, above test items were criticized and reconfirmed in this report.
- (4) After spot check, this revision does not change original radio parameters.

1.1 REFERENCE TEST GUIDANCE

ANSI C63.26-2015
 ANSI/TIA-603-E-2016
 FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

1.2 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:
 No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
 (FCC DN: TW0659)

C05 SR10 SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
 (FCC DN: TW0659)

C06 CB21 CB22

1.3 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. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
CB21	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.

1.4 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Effective Radiated Power	22.5 °C, 51 %	AC 120V	Cora Lin
Radiated Spurious Emissions	Refer to data	AC 120V	Kevin Zhen

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	5G Sub-6 GHz M.2 Module			
Model Name	RM520N-GL			
Brand Name	Quectel			
Model Difference	N/A			
Power Source	Supplied from host system.			
Power Rating	3.3 Vdc			
Host device information				
Equipment	Notebook Computer			
Model Name	TP00160AL			
Brand Name	Lenovo			
Model Difference	N/A			
Power Source	DC voltage supplied from External Power Supply. (Lenovo/ ADLX65YSDC2A)			
Power Rating	I/P: 100-240V~ 1.8A 50-60Hz O/P: 20.0VDC 3.25A 65.0W / 15.0VDC 3.0A / 9.0VDC 3.0A / 5.0VDC 3.0A 15.0W			
WIFI+BT Module	Intel® Wi-Fi 6E AX211 / AX211D2W Intel® BE200D2W / BE200D2W			
WWAN Module	Quectel / RM520N-GL Quectel / EM061K-GL			
NFC Module	FOXCONN / T77H747			
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)	
	WCDMA V	824 ~ 849	869 ~ 894	
	LTE 5	824 ~ 849	869 ~ 894	
	LTE 26	824 ~ 849	869 ~ 894	
Maximum ERP	Band	BW (MHz)	Mode	Power (W)
	WCDMA V	-	-	0.073
	LTE 5	1.4	QPSK	0.086
			16QAM	0.074
			64QAM	0.071
			256QAM	0.033
		3	QPSK	0.087
			16QAM	0.072
			64QAM	0.055
			256QAM	0.089
		5	QPSK	0.089
			16QAM	0.077
			64QAM	0.073
			256QAM	0.034
	10	QPSK	0.090	
		16QAM	0.078	
		64QAM	0.074	
		256QAM	0.057	
	LTE 26	1.4	QPSK	0.096
			16QAM	0.084
64QAM			0.064	
256QAM			0.031	
3		QPSK	0.097	
		16QAM	0.065	
		64QAM	0.047	
		256QAM	0.099	

Maximum ERP	LTE 26	5	QPSK	0.099
			16QAM	0.087
			64QAM	0.066
			256QAM	0.032
		10	QPSK	0.100
			16QAM	0.088
			64QAM	0.066
			256QAM	0.048
		15	QPSK	0.102
			16QAM	0.089
			64QAM	0.067
			256QAM	0.033
	LTE CA_5B	3+5	QPSK	0.096
			16QAM	0.098
			64QAM	0.077
			256QAM	0.046
		5+3	QPSK	0.097
			16QAM	0.099
			64QAM	0.077
			256QAM	0.047
		5+10	QPSK	0.100
			16QAM	0.101
			64QAM	0.079
			256QAM	0.047
		10+5	QPSK	0.102
			16QAM	0.101
			64QAM	0.080
			256QAM	0.048
10+10	QPSK	0.104		
	16QAM	0.102		
	64QAM	0.104		
	256QAM	0.048		
Test Model	RM520N-GL			
Sample Status	Engineering Sample			
EUT Modification(s)	N/A			

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Table for Filed Antenna:

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	Luxshare-ICT	DC33022F20	PIFA	I-PEX	-1.59	WCDMA Band V
					-1.64	LTE Band 5
Aux	Luxshare-ICT	DC33022F20	PIFA	I-PEX	-	LTE Band 26 RX only

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	SPEEDWIRE	DC33022J60	PIFA	I-PEX	-1.59	WCDMA Band V
					-1.64	LTE Band 5
Aux	SPEEDWIRE	DC33022J60	PIFA	I-PEX	-	LTE Band 26 RX only

(3) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

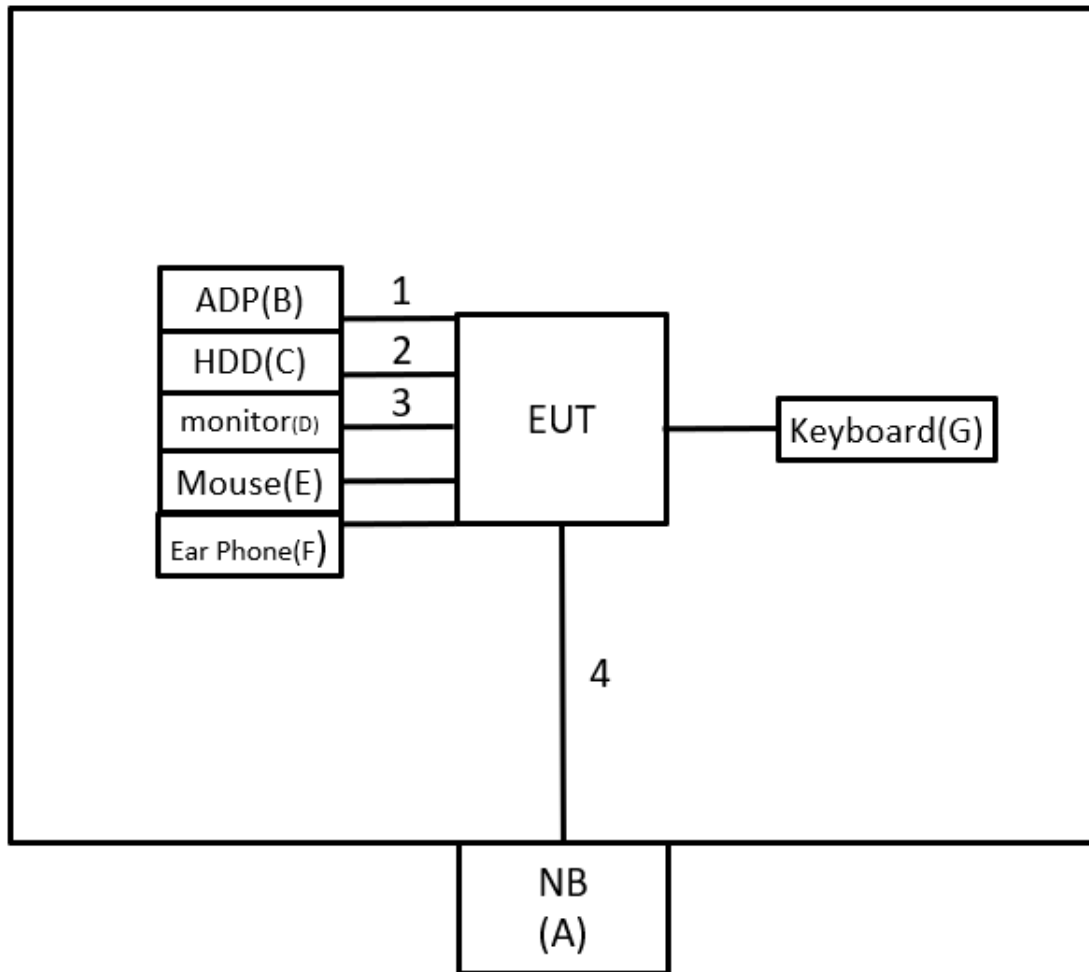
Test Items	Band	Test Mode	Note
Effective Radiated Power	WCDMA Band V	Refer to APPENDIX A	-
	LTE Band 5		
	LTE CA_5B		
	LTE Band 26		
Radiated Spurious Emissions (Below 1G)	WCDMA Band V	TX Mode (CH 4182)	-
	LTE Band 5	TX Mode (CH 20600)	-
	LTE Band 26	TX Mode (CH 26865)	-
	LTE Band CA_5B	TX Low CH_10MHz+10MHz	-
Radiated Spurious Emissions (Above 1G)	WCDMA Band V	TX Mode (CH 4132/4183/4233)	-
	LTE Band 5	TX Mode (CH 20450/20525/20600)	-
	LTE Band 26	TX Mode (CH 26865/26915/26965)	-
	LTE Band CA_5B	TX Low/middle/High CH_10MHz+10MHz	-

NOTE:

- (1) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (2) For Radiated Spurious Emissions both QPSK, 16QAM, 64QAM and 256QAM 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.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	HP	TPN-1119	N/A	Furnished by test lab.
B	ADP	Lenovo	ADLX65YSDC2 A	N/A	Supplied by test requester.
C	USB 2.5" HDD	TOSIBA	XS700	483B60M9KQSS	Furnished by test lab.
D	27" 4K Monitor	DELL	U2720Q	CN-083VF-WSL0 0-0B7-332L	Furnished by test lab.
E	Mouse	Lenovo	SM-8823	N/A	Furnished by test lab.
F	Ear Phone	HTC	N/A	N/A	Furnished by test lab.
G	Keyboard	Bloody	KB-8	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.9m	Power Cord	Supplied by test requester.
2	N/A	N/A	1m	Type C to USB Cable	Furnished by test lab.
3	N/A	N/A	1.8m	HDMI	Furnished by test lab.
4	N/A	N/A	10m	RJ45 Cable	Furnished by test lab.

3 EFFECTIVE RADIATED POWER MEASUREMENT

3.1 LIMIT

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45 dBm).

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

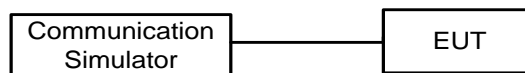
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP

Conducted Measurement:



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1 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:

(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 (dBm)		Correct Factor (dB/m)		Measurement Value (dBm)
-50.43	+	-2.11	=	-52.54

Measurement Value (dBm)		Limit Value (dBm)		Margin Level (dB)
-52.54	-	-13	=	-39.54

4.2 TEST PROCEDURE

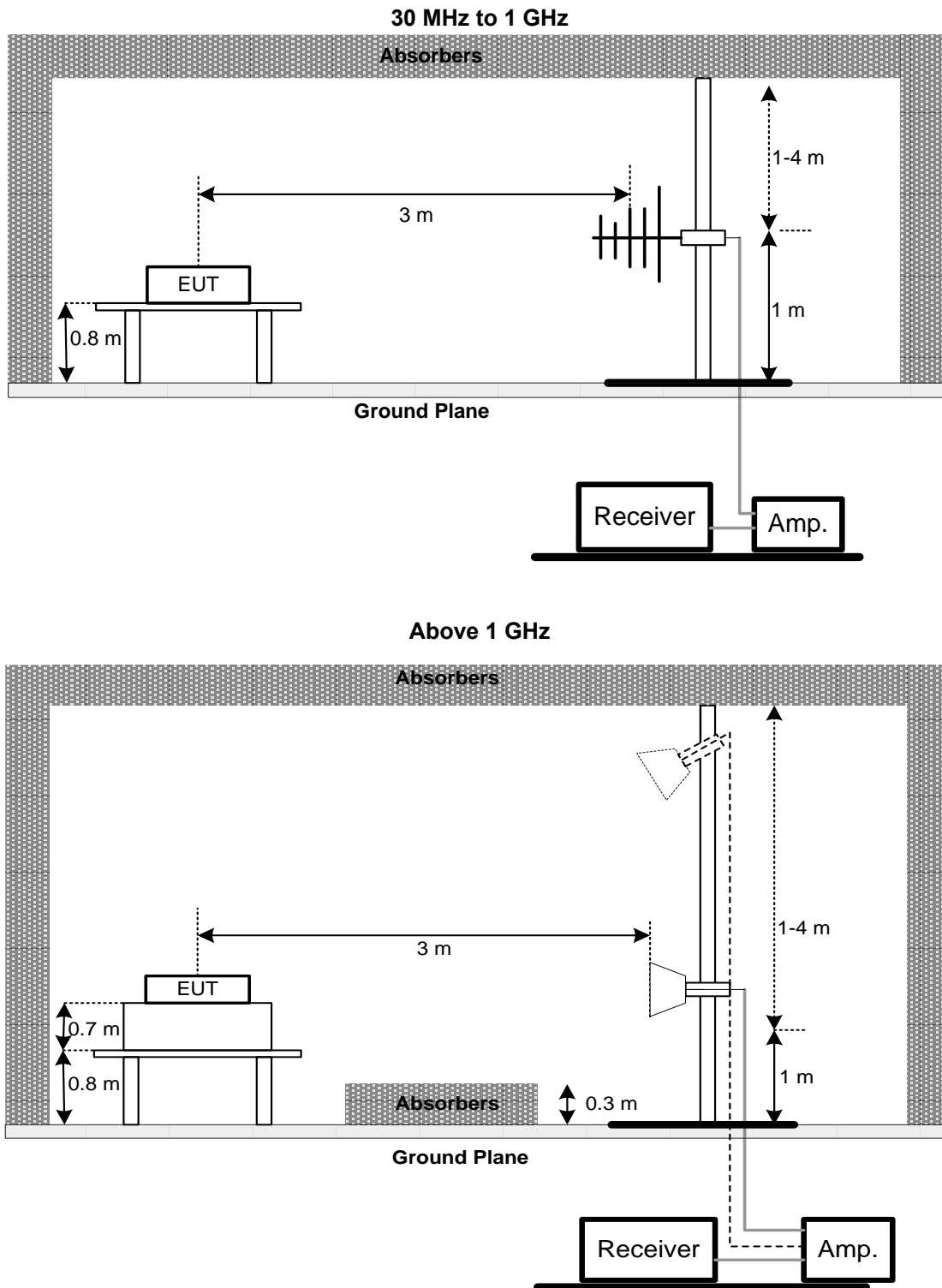
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. 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.
- b. 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
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}$.
- e. 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



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 LIST OF MEASURING EQUIPMENTS

Effective Radiated Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2023/7/4	2024/7/3
2	Radio Communication Test Station	ANRITSU	MT8821C	6262044728	2023/11/22	2024/11/21
3	Radio Communication Analyzer	ANRITSU	MT8000A	6262036844	2023/11/22	2024/11/21
4	Radio Communication Analyzer	Keysight	E7515B	MY59020217	2023/7/6	2024/7/5

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2023/9/6	2024/9/5
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2023/9/21	2024/9/20
4	Test Cable	EMCI	EMC104-SM-1000	180809	2023/7/10	2024/7/9
5	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
6	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
7	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
8	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11
9	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11
10	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
11	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
12	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2023/3/14	2024/3/13
13	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2023/3/14	2024/3/13
14	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2023/7/4	2024/7/3
15	Radio Communication Analyzer	ANRITSU	MT8820C	6201381608	2022/12/22	2023/12/21
16	Radio Communication Analyzer	Keysight	E7515B	MY59020217	2023/7/6	2024/7/5
17	Measurement Software	EZ	EZ_EMCI (Version NB-03A1-01)	N/A	N/A	N/A

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

6 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2311T076-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2311T076-1 (APPENDIX-EUT PHOTOS).

APPENDIX A EFFECTIVE RADIATED POWER

WCDMA Band V Power:

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
WCDMA Band V	Rel 99	4132/4357	826.4	22.09	18.35	0.068
		4183/4408	836.6	22.33	18.59	0.072
		4233/4458	846.6	22.38	18.64	0.073

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSDPA V	1	4132/4357	826.4	21.88	18.14	0.065
		4183/4408	836.6	22.12	18.38	0.069
		4233/4458	846.6	22.17	18.43	0.070
	2	4132/4357	826.4	21.38	17.64	0.058
		4183/4408	836.6	21.62	17.88	0.061
		4233/4458	846.6	21.67	17.93	0.062
	3	4132/4357	826.4	20.88	17.14	0.052
		4183/4408	836.6	21.12	17.38	0.055
		4233/4458	846.6	21.17	17.43	0.055
	4	4132/4357	826.4	20.88	17.14	0.052
		4183/4408	836.6	21.12	17.38	0.055
		4233/4458	846.6	21.17	17.43	0.055

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSUPA V	1	4132/4357	826.4	22.00	18.26	0.067
		4183/4408	836.6	22.26	18.52	0.071
		4233/4458	846.6	22.36	18.62	0.073
	2	4132/4357	826.4	20.00	16.26	0.042
		4183/4408	836.6	20.26	16.52	0.045
		4233/4458	846.6	20.36	16.62	0.046
	3	4132/4357	826.4	21.00	17.26	0.053
		4183/4408	836.6	21.26	17.52	0.056
		4233/4458	846.6	21.36	17.62	0.058
	4	4132/4357	826.4	20.00	16.26	0.042
		4183/4408	836.6	20.26	16.52	0.045
		4233/4458	846.6	20.36	16.62	0.046
	5	4132/4357	826.4	22.00	18.26	0.067
		4183/4408	836.6	22.26	18.52	0.071
		4233/4458	846.6	22.36	18.62	0.073

LTE Band 5 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	1.4	20407	824.7	QPSK	1	0	0	23.09	19.35	0.086
					1	2	0	23.02	19.28	0.085
					1	5	0	22.99	19.25	0.084
					6	0	1	22.06	18.32	0.068
				16QAM	1	0	1	22.45	18.71	0.074
					1	2	1	22.26	18.52	0.071
					1	5	1	22.37	18.63	0.073
				64QAM	6	0	2	21.11	17.37	0.055
					1	0	2	22.27	18.53	0.071
		1	2		2	22.23	18.49	0.071		
		1	5		2	22.08	18.34	0.068		
		256QAM	6	0	3	21.06	17.32	0.054		
			1	0	4	18.88	15.14	0.033		
			1	2	4	18.74	15.00	0.032		
			1	5	4	18.60	14.86	0.031		
			6	0	5	18.63	14.89	0.031		
		20525	836.5	QPSK	1	0	0	23.01	19.27	0.085
					1	2	0	23.06	19.32	0.086
	1				5	0	23.03	19.29	0.085	
	6				0	1	22.03	18.29	0.067	
	16QAM			1	0	1	22.32	18.58	0.072	
				1	2	1	22.43	18.69	0.074	
				1	5	1	22.33	18.59	0.072	
	64QAM			6	0	2	21.10	17.36	0.054	
				1	0	2	22.13	18.39	0.069	
			1	2	2	22.20	18.46	0.070		
			1	5	2	22.16	18.42	0.070		
	256QAM		6	0	3	21.10	17.36	0.054		
			1	0	4	18.81	15.07	0.032		
			1	2	4	18.80	15.06	0.032		
			1	5	4	18.71	14.97	0.031		
			6	0	5	18.75	15.01	0.032		
	20643		848.3	QPSK	1	0	0	23.09	19.35	0.086
					1	2	0	22.98	19.24	0.084
		1			5	0	23.03	19.29	0.085	
		6			0	1	22.07	18.33	0.068	
16QAM		1		0	1	22.31	18.57	0.072		
		1		2	1	22.33	18.59	0.072		
		1		5	1	22.39	18.65	0.073		
64QAM		6		0	2	21.12	17.38	0.055		
		1		0	2	22.11	18.37	0.069		
		1	2	2	22.14	18.40	0.069			
		1	5	2	22.10	18.36	0.069			
256QAM		6	0	3	21.06	17.32	0.054			
		1	0	4	18.79	15.05	0.032			
		1	2	4	18.94	15.20	0.033			
		1	5	4	18.87	15.13	0.033			
		6	0	5	18.71	14.97	0.031			

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	3	20415	825.5	QPSK	1	0	0	23.16	19.42	0.087
					1	8	0	23.09	19.35	0.086
					1	14	0	23.06	19.32	0.086
					15	0	1	22.13	18.39	0.069
				16QAM	1	0	1	22.53	18.79	0.076
					1	8	1	22.33	18.59	0.072
					1	14	1	22.42	18.68	0.074
				64QAM	15	0	2	21.15	17.41	0.055
					1	0	2	22.34	18.60	0.072
					1	8	2	22.30	18.56	0.072
				256QAM	1	14	2	22.12	18.38	0.069
					15	0	3	21.11	17.37	0.055
					1	0	4	18.93	15.19	0.033
					1	8	4	18.80	15.06	0.032
				20525	836.5	QPSK	1	14	4	18.65
		15	0				5	18.70	14.96	0.031
		1	0				0	23.05	19.31	0.085
		20525	836.5	QPSK	1	8	0	23.12	19.38	0.087
					1	14	0	23.07	19.33	0.086
					15	0	1	22.11	18.37	0.069
					1	0	1	22.38	18.64	0.073
				16QAM	1	8	1	22.49	18.75	0.075
					1	14	1	22.40	18.66	0.073
					15	0	2	21.17	17.43	0.055
				64QAM	1	0	2	22.18	18.44	0.070
					1	8	2	22.27	18.53	0.071
					1	14	2	22.24	18.50	0.071
				256QAM	15	0	3	21.16	17.42	0.055
					1	0	4	18.85	15.11	0.032
		1	8		4	18.85	15.11	0.032		
		1	14		4	18.75	15.01	0.032		
		20635	847.5	QPSK	15	0	5	18.82	15.08	0.032
					1	0	0	23.14	19.40	0.087
					1	8	0	23.05	19.31	0.085
					1	14	0	23.09	19.35	0.086
				16QAM	15	0	1	22.13	18.39	0.069
					1	0	1	22.38	18.64	0.073
					1	8	1	22.39	18.65	0.073
				64QAM	1	14	1	22.44	18.70	0.074
					15	0	2	21.17	17.43	0.055
					1	0	2	22.19	18.45	0.070
				256QAM	1	8	2	22.21	18.47	0.070
					1	14	2	22.17	18.43	0.070
					15	0	3	21.13	17.39	0.055
					1	0	4	18.85	15.11	0.032
256QAM	1			8	4	19.00	15.26	0.034		
	1	14	4	18.95	15.21	0.033				
	15	0	5	18.76	15.02	0.032				

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	5	20425	826.5	QPSK	1	0	0	23.24	19.50	0.089
					1	12	0	23.16	19.42	0.087
					1	24	0	23.13	19.39	0.087
					25	0	1	22.17	18.43	0.070
				16QAM	1	0	1	22.58	18.84	0.077
					1	12	1	22.41	18.67	0.074
					1	24	1	22.50	18.76	0.075
				64QAM	25	0	2	21.20	17.46	0.056
					1	0	2	22.38	18.64	0.073
					1	12	2	22.36	18.62	0.073
				256QAM	1	24	2	22.19	18.45	0.070
					25	0	3	21.18	17.44	0.055
		1	0		4	19.00	15.26	0.034		
		256QAM	1	12	4	18.86	15.12	0.033		
			1	24	4	18.71	14.97	0.031		
			25	0	5	18.76	15.02	0.032		
		20525	836.5	QPSK	1	0	0	23.12	19.38	0.087
					1	12	0	23.20	19.46	0.088
					1	24	0	23.13	19.39	0.087
					25	0	1	22.19	18.45	0.070
				16QAM	1	0	1	22.44	18.70	0.074
					1	12	1	22.54	18.80	0.076
					1	24	1	22.46	18.72	0.074
				64QAM	25	0	2	21.24	17.50	0.056
					1	0	2	22.26	18.52	0.071
					1	12	2	22.34	18.60	0.072
				256QAM	1	24	2	22.30	18.56	0.072
					25	0	3	21.21	17.47	0.056
		1	0		4	18.89	15.15	0.033		
		256QAM	1	12	4	18.92	15.18	0.033		
			1	24	4	18.82	15.08	0.032		
			25	0	5	18.88	15.14	0.033		
		20625	846.5	QPSK	1	0	0	23.20	19.46	0.088
					1	12	0	23.13	19.39	0.087
					1	24	0	23.13	19.39	0.087
					25	0	1	22.18	18.44	0.070
				16QAM	1	0	1	22.46	18.72	0.074
					1	12	1	22.46	18.72	0.074
					1	24	1	22.49	18.75	0.075
				64QAM	25	0	2	21.21	17.47	0.056
					1	0	2	22.27	18.53	0.071
					1	12	2	22.29	18.55	0.072
				256QAM	1	24	2	22.24	18.50	0.071
					25	0	3	21.18	17.44	0.055
		1	0		4	18.92	15.18	0.033		
		256QAM	1	12	4	19.06	15.32	0.034		
			1	24	4	19.00	15.26	0.034		
			25	0	5	18.83	15.09	0.032		

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	10	20450	829.0	QPSK	1	0	0	23.28	19.54	0.090
					1	24	0	23.21	19.47	0.089
					1	49	0	23.17	19.43	0.088
					50	0	1	22.24	18.50	0.071
				16QAM	1	0	1	22.65	18.91	0.078
					1	24	1	22.46	18.72	0.074
					1	49	1	22.56	18.82	0.076
				50	0	2	21.27	17.53	0.057	
					1	0	2	22.43	18.69	0.074
					1	24	2	22.41	18.67	0.074
				64QAM	1	49	2	22.27	18.53	0.071
					50	0	3	21.23	17.49	0.056
		1	0		4	19.04	15.30	0.034		
		256QAM	1	24	4	18.92	15.18	0.033		
			1	49	4	18.78	15.04	0.032		
			50	0	5	18.83	15.09	0.032		
		20525	836.5	QPSK	1	0	0	23.17	19.43	0.088
					1	24	0	23.27	19.53	0.090
					1	49	0	23.18	19.44	0.088
					50	0	1	22.26	18.52	0.071
				16QAM	1	0	1	22.51	18.77	0.075
					1	24	1	22.59	18.85	0.077
					1	49	1	22.53	18.79	0.076
				50	0	2	21.29	17.55	0.057	
					1	0	2	22.32	18.58	0.072
					1	24	2	22.40	18.66	0.073
				64QAM	1	49	2	22.37	18.63	0.073
					50	0	3	21.28	17.54	0.057
		1	0		4	18.95	15.21	0.033		
		256QAM	1	24	4	18.96	15.22	0.033		
			1	49	4	18.88	15.14	0.033		
			50	0	5	18.92	15.18	0.033		
		20600	844.0	QPSK	1	0	0	23.26	19.52	0.090
					1	24	0	23.20	19.46	0.088
					1	49	0	23.17	19.43	0.088
					50	0	1	22.26	18.52	0.071
				16QAM	1	0	1	22.51	18.77	0.075
					1	24	1	22.50	18.76	0.075
					1	49	1	22.54	18.80	0.076
				50	0	2	21.25	17.51	0.056	
					1	0	2	22.34	18.60	0.072
					1	24	2	22.35	18.61	0.073
				64QAM	1	49	2	22.31	18.57	0.072
					50	0	3	21.24	17.50	0.056
		1	0		4	18.96	15.22	0.033		
		256QAM	1	24	4	19.11	15.37	0.034		
			1	49	4	19.05	15.31	0.034		
			50	0	5	18.87	15.13	0.033		

NOTE:

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

LTE Band 26 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)			
26	1.4	26797	824.7	QPSK	1	0	0	23.61	19.82	0.096			
					1	2	0	23.33	19.54	0.090			
					1	5	0	23.50	19.71	0.094			
					6	0	1	22.38	18.59	0.072			
				16QAM	1	0	1	22.80	19.01	0.080			
					1	2	1	22.71	18.92	0.078			
					1	5	1	22.66	18.87	0.077			
					6	0	2	21.53	17.74	0.059			
					64QAM	1	0	2	21.85	18.06	0.064		
						1	2	2	21.59	17.80	0.060		
				1		5	2	21.48	17.69	0.059			
				6		0	3	20.46	16.67	0.046			
				256QAM		1	0	4	18.62	14.83	0.030		
						1	2	4	18.52	14.73	0.030		
					1	5	4	18.49	14.70	0.030			
					6	0	5	18.45	14.66	0.029			
					26915	836.5	QPSK	1	0	0	23.32	19.53	0.090
								1	2	0	23.17	19.38	0.087
				1				5	0	23.46	19.67	0.093	
				6				0	1	22.33	18.54	0.071	
				16QAM			1	0	1	22.40	18.61	0.073	
							1	2	1	22.84	19.05	0.080	
							1	5	1	22.62	18.83	0.076	
							6	0	2	21.46	17.67	0.058	
		64QAM	1				0	2	21.60	17.81	0.060		
			1				2	2	21.59	17.80	0.060		
			1	5			2	21.49	17.70	0.059			
			6	0			3	20.43	16.64	0.046			
			256QAM	1	0	4	18.65	14.86	0.031				
				1	2	4	18.46	14.67	0.029				
		1		5	4	18.32	14.53	0.028					
		6		0	5	18.48	14.69	0.029					
		27033		848.3	QPSK	1	0	0	23.38	19.59	0.091		
						1	2	0	23.40	19.61	0.091		
			1			5	0	23.24	19.45	0.088			
			6			0	1	22.44	18.65	0.073			
			16QAM		1	0	1	23.02	19.23	0.084			
					1	2	1	22.84	19.05	0.080			
					1	5	1	22.88	19.09	0.081			
					6	0	2	21.52	17.73	0.059			
					64QAM	1	0	2	21.70	17.91	0.062		
						1	2	2	21.65	17.86	0.061		
			1			5	2	21.44	17.65	0.058			
			6			0	3	20.48	16.69	0.047			
		256QAM	1	0		4	18.63	14.84	0.030				
			1	2		4	18.71	14.92	0.031				
			1	5	4	18.34	14.55	0.029					
			6	0	5	18.46	14.67	0.029					

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	3	26805	825.5	QPSK	1	0	0	23.68	19.89	0.097
					1	8	0	23.40	19.61	0.091
					1	14	0	23.57	19.78	0.095
					15	0	1	22.45	18.66	0.073
				16QAM	1	0	1	22.88	19.09	0.081
					1	8	1	22.78	18.99	0.079
					1	14	1	22.71	18.92	0.078
				64QAM	15	0	2	21.57	17.78	0.060
					1	0	2	21.92	18.13	0.065
					1	8	2	21.66	17.87	0.061
				256QAM	1	14	2	21.52	17.73	0.059
					15	0	3	20.51	16.72	0.047
		1	0		4	18.67	14.88	0.031		
		26915	836.5	QPSK	1	8	4	18.58	14.79	0.030
					1	14	4	18.54	14.75	0.030
					15	0	5	18.52	14.73	0.030
		1			0	0	23.36	19.57	0.091	
		16QAM		1	8	0	23.23	19.44	0.088	
				1	14	0	23.50	19.71	0.094	
				15	0	1	22.41	18.62	0.073	
		64QAM		1	0	1	22.46	18.67	0.074	
				1	8	1	22.90	19.11	0.081	
				1	14	1	22.69	18.90	0.078	
		256QAM		15	0	2	21.53	17.74	0.059	
				1	0	2	21.65	17.86	0.061	
			1	8	2	21.66	17.87	0.061		
		27025	847.5	QPSK	1	14	2	21.57	17.78	0.060
					15	0	3	20.49	16.70	0.047
					1	0	4	18.69	14.90	0.031
		1			8	4	18.51	14.72	0.030	
		16QAM		1	14	4	18.36	14.57	0.029	
				15	0	5	18.55	14.76	0.030	
				1	0	0	23.43	19.64	0.092	
		64QAM		1	8	0	23.47	19.68	0.093	
				1	14	0	23.30	19.51	0.089	
				15	0	1	22.50	18.71	0.074	
		256QAM		1	0	1	23.09	19.30	0.085	
				1	8	1	22.90	19.11	0.081	
			1	14	1	22.93	19.14	0.082		
		16QAM	15	0	2	21.57	17.78	0.060		
			1	0	2	21.78	17.99	0.063		
			1	8	2	21.72	17.93	0.062		
		256QAM	1	14	2	21.51	17.72	0.059		
			15	0	3	20.55	16.76	0.047		
			1	0	4	18.69	14.90	0.031		
		64QAM	1	8	4	18.77	14.98	0.031		
			1	14	4	18.42	14.63	0.029		
			15	0	5	18.51	14.72	0.030		

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)	
26	5	26815	826.5	QPSK	1	0	0	23.76	19.97	0.099	
					1	12	0	23.47	19.68	0.093	
					1	24	0	23.64	19.85	0.097	
					25	0	1	22.49	18.70	0.074	
				16QAM	1	0	1	22.93	19.14	0.082	
					1	12	1	22.86	19.07	0.081	
					1	24	1	22.79	19.00	0.079	
				25	0	2	21.62	17.83	0.061		
					64QAM	1	0	2	21.96	18.17	0.066
						1	12	2	21.72	17.93	0.062
				1		24	2	21.59	17.80	0.060	
				25	0	3	20.58	16.79	0.048		
		256QAM	1		0	4	18.74	14.95	0.031		
			1		12	4	18.64	14.85	0.031		
			1	24	4	18.60	14.81	0.030			
		25	0	5	18.58	14.79	0.030				
			26915	836.5	QPSK	1	0	0	23.43	19.64	0.092
						1	12	0	23.31	19.52	0.090
		1				24	0	23.56	19.77	0.095	
		25	0			1	22.49	18.70	0.074		
		16QAM	1		0	1	22.52	18.73	0.075		
			1		12	1	22.95	19.16	0.082		
			1		24	1	22.75	18.96	0.079		
		25	0		2	21.60	17.81	0.060			
			64QAM		1	0	2	21.73	17.94	0.062	
					1	12	2	21.73	17.94	0.062	
		1			24	2	21.63	17.84	0.061		
		25	0		3	20.54	16.75	0.047			
			256QAM	1	0	4	18.73	14.94	0.031		
				1	12	4	18.58	14.79	0.030		
		1		24	4	18.43	14.64	0.029			
		25	0	5	18.61	14.82	0.030				
			27015	846.5	QPSK	1	0	0	23.49	19.70	0.093
						1	12	0	23.55	19.76	0.095
		1				24	0	23.34	19.55	0.090	
		25				0	1	22.55	18.76	0.075	
16QAM	1	0	1		23.17	19.38	0.087				
	1	12	1		22.97	19.18	0.083				
	1	24	1		22.98	19.19	0.083				
25	0	2	21.61		17.82	0.061					
	64QAM	1	0		2	21.86	18.07	0.064			
		1	12		2	21.80	18.01	0.063			
1		24	2		21.58	17.79	0.060				
25	0	3	20.60		16.81	0.048					
	256QAM	1	0	4	18.76	14.97	0.031				
		1	12	4	18.83	15.04	0.032				
1		24	4	18.47	14.68	0.029					
25	0	5	18.58	14.79	0.030						

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	10	26840	829.0	QPSK	1	0	0	23.80	20.01	0.100
					1	24	0	23.52	19.73	0.094
					1	49	0	23.68	19.89	0.097
					50	0	1	22.56	18.77	0.075
				16QAM	1	0	1	23.00	19.21	0.083
					1	24	1	22.91	19.12	0.082
					1	49	1	22.85	19.06	0.081
				64QAM	50	0	2	21.69	17.90	0.062
					1	0	2	22.01	18.22	0.066
					1	24	2	21.77	17.98	0.063
					1	49	2	21.67	17.88	0.061
				256QAM	50	0	3	20.63	16.84	0.048
		1	0		4	18.78	14.99	0.032		
		1	24		4	18.70	14.91	0.031		
		1	49		4	18.67	14.88	0.031		
		26915	836.5	QPSK	50	0	5	18.65	14.86	0.031
					1	0	0	23.48	19.69	0.093
					1	24	0	23.38	19.59	0.091
					1	49	0	23.61	19.82	0.096
				16QAM	50	0	1	22.56	18.77	0.075
					1	0	1	22.59	18.80	0.076
					1	24	1	23.00	19.21	0.083
				64QAM	1	49	1	22.82	19.03	0.080
					50	0	2	21.65	17.86	0.061
					1	0	2	21.79	18.00	0.063
					1	24	2	21.79	18.00	0.063
				256QAM	1	49	2	21.70	17.91	0.062
		50	0		3	20.61	16.82	0.048		
		1	0		4	18.79	15.00	0.032		
		1	24		4	18.62	14.83	0.030		
		26990	844.0	QPSK	1	49	4	18.49	14.70	0.030
					50	0	5	18.65	14.86	0.031
					1	0	0	23.55	19.76	0.095
					1	24	0	23.62	19.83	0.096
				16QAM	1	49	0	23.38	19.59	0.091
					50	0	1	22.63	18.84	0.077
					1	0	1	23.22	19.43	0.088
				64QAM	1	24	1	23.01	19.22	0.084
					1	49	1	23.03	19.24	0.084
					50	0	2	21.65	17.86	0.061
					1	0	2	21.93	18.14	0.065
				256QAM	1	24	2	21.86	18.07	0.064
		1	49		2	21.65	17.86	0.061		
		50	0		3	20.66	16.87	0.049		
		1	0		4	18.80	15.01	0.032		
		256QAM	1	24	4	18.88	15.09	0.032		
			1	49	4	18.52	14.73	0.030		
			50	0	5	18.62	14.83	0.030		
50	0		5	18.62	14.83	0.030				

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	15	26865	831.5	QPSK	1	0	0	23.88	20.09	0.102
					1	38	0	23.58	19.79	0.095
					1	74	0	23.75	19.96	0.099
					75	0	1	22.64	18.85	0.077
				16QAM	1	0	1	23.06	19.27	0.085
					1	38	1	22.99	19.20	0.083
					1	74	1	22.90	19.11	0.081
				75	0	2	21.73	17.94	0.062	
					1	0	2	22.07	18.28	0.067
					1	38	2	21.83	18.04	0.064
				64QAM	1	74	2	21.71	17.92	0.062
					75	0	3	20.70	16.91	0.049
		1	0		4	18.83	15.04	0.032		
		256QAM	1	38	4	18.77	14.98	0.031		
			1	74	4	18.75	14.96	0.031		
			75	0	5	18.71	14.92	0.031		
		26915	836.5	QPSK	1	0	0	23.54	19.75	0.094
					1	38	0	23.45	19.66	0.092
					1	74	0	23.65	19.86	0.097
					75	0	1	22.62	18.83	0.076
				16QAM	1	0	1	22.66	18.87	0.077
					1	38	1	23.08	19.29	0.085
					1	74	1	22.87	19.08	0.081
				75	0	2	21.70	17.91	0.062	
					1	0	2	21.85	18.06	0.064
					1	38	2	21.84	18.05	0.064
				64QAM	1	74	2	21.77	17.98	0.063
					75	0	3	20.68	16.89	0.049
		1	0		4	18.83	15.04	0.032		
		256QAM	1	38	4	18.66	14.87	0.031		
			1	74	4	18.55	14.76	0.030		
			75	0	5	18.73	14.94	0.031		
		26965	841.5	QPSK	1	0	0	23.61	19.82	0.096
					1	38	0	23.70	19.91	0.098
					1	74	0	23.45	19.66	0.092
					75	0	1	22.67	18.88	0.077
				16QAM	1	0	1	23.26	19.47	0.089
					1	38	1	23.06	19.27	0.085
					1	74	1	23.09	19.30	0.085
				75	0	2	21.70	17.91	0.062	
					1	0	2	22.01	18.22	0.066
					1	38	2	21.91	18.12	0.065
				64QAM	1	74	2	21.71	17.92	0.062
					75	0	3	20.72	16.93	0.049
		1	0		4	18.88	15.09	0.032		
		256QAM	1	38	4	18.92	15.13	0.033		
			1	74	4	18.57	14.78	0.030		
			75	0	5	18.66	14.87	0.031		

NOTE:

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

LTE Band CA_5B:

Band	BW (MHz)	PCC/SCC Channel	Frequency (MHz)	Mode	PCC UL RB Allocation	PCC UL RB Start	SCC UL RB Allocation	SCC UL RB Start	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
Band 5+5	3+5	20416 20455	825.6 829.5	QPSK	1	0	0	0	1	23.56	19.82	0.096
					15	0	25	0	2	23.12	19.38	0.087
				16QAM	1	0	0	0	1.5	23.53	19.79	0.095
					15	0	25	0	3	22.11	18.37	0.069
				64QAM	1	0	0	0	2	22.60	18.86	0.077
					15	0	25	0	2	21.98	18.24	0.067
		256QAM	1	0	0	0	6	19.64	15.90	0.039		
			15	0	25	0	6	20.23	16.49	0.045		
		20501 20540	834.1 838	QPSK	1	0	0	0	1	23.58	19.84	0.096
					15	0	25	0	2	23.22	19.48	0.089
				16QAM	1	0	0	0	1.5	23.59	19.85	0.097
					15	0	25	0	3	22.36	18.62	0.073
				64QAM	1	0	0	0	2	22.59	18.85	0.077
					15	0	25	0	2	22.04	18.30	0.068
		256QAM	1	0	0	0	6	19.60	15.86	0.039		
			15	0	25	0	6	20.27	16.53	0.045		
		20586 20625	842.6 846.5	QPSK	1	0	0	0	1	23.39	19.65	0.092
					15	0	25	0	2	23.32	19.58	0.091
				16QAM	1	0	0	0	1.5	23.66	19.92	0.098
					15	0	25	0	3	22.39	18.65	0.073
				64QAM	1	0	0	0	2	22.55	18.81	0.076
					15	0	25	0	2	22.04	18.30	0.068
		256QAM	1	0	0	0	6	19.69	15.95	0.039		
			15	0	25	0	6	20.35	16.61	0.046		

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	PCC UL RB Allocation	PCC UL RB Start	SCC UL RB Allocation	SCC UL RB Start	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
Band 5+5	5+3	20425 20464	826.5 830.4	QPSK	1	0	0	0	1	23.59	19.85	0.097
					25	0	15	0	2	23.19	19.45	0.088
				16QAM	1	0	0	0	1.5	23.62	19.88	0.097
					25	0	15	0	3	22.16	18.42	0.070
				64QAM	1	0	0	0	2	22.63	18.89	0.077
					25	0	15	0	2	22.01	18.27	0.067
				256QAM	1	0	0	0	6	19.73	15.99	0.040
					25	0	15	0	6	20.27	16.53	0.045
		20510 20549	835 838.9	QPSK	1	0	0	0	1	23.63	19.89	0.097
					25	0	15	0	2	23.30	19.56	0.090
				16QAM	1	0	0	0	1.5	23.64	19.90	0.098
					25	0	15	0	3	22.39	18.65	0.073
				64QAM	1	0	0	0	2	22.63	18.89	0.077
					25	0	15	0	2	22.12	18.38	0.069
				256QAM	1	0	0	0	6	19.64	15.90	0.039
					25	0	15	0	6	20.30	16.56	0.045
		20595 20634	843.5 847.4	QPSK	1	0	0	0	1	23.49	19.75	0.094
					25	0	15	0	2	23.33	19.59	0.091
				16QAM	1	0	0	0	1.5	23.71	19.97	0.099
					25	0	15	0	3	22.43	18.69	0.074
				64QAM	1	0	0	0	2	22.59	18.85	0.077
					25	0	15	0	2	22.12	18.38	0.069
				256QAM	1	0	0	0	6	19.76	16.02	0.040
					25	0	15	0	6	20.42	16.68	0.047

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	PCC UL RB Allocation	PCC UL RB Start	SCC UL RB Allocation	SCC UL RB Start	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
Band 5+5	5+10	20428 20500	826.8 834	QPSK	1	0	0	0	1	23.69	19.95	0.099
					25	0	50	0	2	23.26	19.52	0.090
				16QAM	1	0	0	0	1.5	23.64	19.90	0.098
					25	0	50	0	3	22.24	18.50	0.071
				64QAM	1	0	0	0	2	22.73	18.99	0.079
					25	0	50	0	2	22.04	18.30	0.068
				256QAM	1	0	0	0	6	19.75	16.01	0.040
					25	0	50	0	6	20.32	16.58	0.045
		20478 20550	831.8 839	QPSK	1	0	0	0	1	23.73	19.99	0.100
					25	0	50	0	2	23.32	19.58	0.091
				16QAM	1	0	0	0	1.5	23.66	19.92	0.098
					25	0	50	0	3	22.45	18.71	0.074
				64QAM	1	0	0	0	2	22.67	18.93	0.078
					25	0	50	0	2	22.16	18.42	0.070
				256QAM	1	0	0	0	6	19.65	15.91	0.039
					25	0	50	0	6	20.40	16.66	0.046
		20528 20600	836.8 844	QPSK	1	0	0	0	1	23.52	19.78	0.095
					25	0	50	0	2	23.42	19.68	0.093
				16QAM	1	0	0	0	1.5	23.77	20.03	0.101
					25	0	50	0	3	22.47	18.73	0.075
				64QAM	1	0	0	0	2	22.66	18.92	0.078
					25	0	50	0	2	22.21	18.47	0.070
				256QAM	1	0	0	0	6	19.82	16.08	0.041
					25	0	50	0	6	20.46	16.72	0.047

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	PCC UL RB Allocation	PCC UL RB Start	SCC UL RB Allocation	SCC UL RB Start	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
Band 5+5	10+5	20450 20522	829 836.2	QPSK	1	0	0	0	1	23.78	20.04	0.101
					50	0	25	0	2	23.31	19.57	0.091
				16QAM	1	0	0	0	1.5	23.68	19.94	0.099
					50	0	25	0	3	22.33	18.59	0.072
				64QAM	1	0	0	0	2	22.77	19.03	0.080
					50	0	25	0	2	22.13	18.39	0.069
				256QAM	1	0	0	0	6	19.81	16.07	0.040
					50	0	25	0	6	20.42	16.68	0.047
		20500 20572	834 841.2	QPSK	1	0	0	0	1	23.82	20.08	0.102
					50	0	25	0	2	23.36	19.62	0.092
				16QAM	1	0	0	0	1.5	23.69	19.95	0.099
					50	0	25	0	3	22.50	18.76	0.075
				64QAM	1	0	0	0	2	22.72	18.98	0.079
					50	0	25	0	2	22.20	18.46	0.070
				256QAM	1	0	0	0	6	19.72	15.98	0.040
					50	0	25	0	6	20.49	16.75	0.047
		20550 20622	839 846.2	QPSK	1	0	0	0	1	23.59	19.85	0.097
					50	0	25	0	2	23.48	19.74	0.094
				16QAM	1	0	0	0	1.5	23.78	20.04	0.101
					50	0	25	0	3	22.53	18.79	0.076
				64QAM	1	0	0	0	2	22.72	18.98	0.079
					50	0	25	0	2	22.31	18.57	0.072
				256QAM	1	0	0	0	6	19.87	16.13	0.041
					50	0	25	0	6	20.54	16.80	0.048

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	PCC UL RB Allocation	PCC UL RB Start	SCC UL RB Allocation	SCC UL RB Start	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
Band 5+5	10+10	20450 20549	829 838.9	QPSK	1	0	0	0	1	23.88	20.14	0.103
					50	0	50	0	2	23.40	19.66	0.092
				16QAM	1	0	0	0	1.5	23.74	20.00	0.100
					50	0	50	0	3	22.39	18.65	0.073
				64QAM	1	0	0	0	2	22.80	19.06	0.081
					50	0	50	0	2	22.15	18.41	0.069
		256QAM	1	0	0	0	6	19.86	16.12	0.041		
			50	0	50	0	6	20.47	16.73	0.047		
		20476 20575	831.6 848.9	QPSK	1	0	0	0	1	23.89	20.15	0.104
					50	0	50	0	2	23.44	19.70	0.093
				16QAM	1	0	0	0	1.5	23.77	20.03	0.101
					50	0	50	0	3	22.54	18.80	0.076
				64QAM	1	0	0	0	2	22.81	19.07	0.081
					50	0	50	0	2	22.26	18.52	0.071
		256QAM	1	0	0	0	6	19.82	16.08	0.041		
			50	0	50	0	6	20.55	16.81	0.048		
		20501 20600	834.1 844	QPSK	1	0	0	0	1	23.65	19.91	0.098
					50	0	50	0	2	23.55	19.81	0.096
				16QAM	1	0	0	0	1.5	23.81	20.07	0.102
					50	0	50	0	3	22.56	18.82	0.076
				64QAM	1	0	0	0	2	22.77	19.03	0.080
					50	0	50	0	2	22.32	18.58	0.072
		256QAM	1	0	0	0	6	19.93	16.19	0.042		
			50	0	50	0	6	20.58	16.84	0.048		

NOTE:

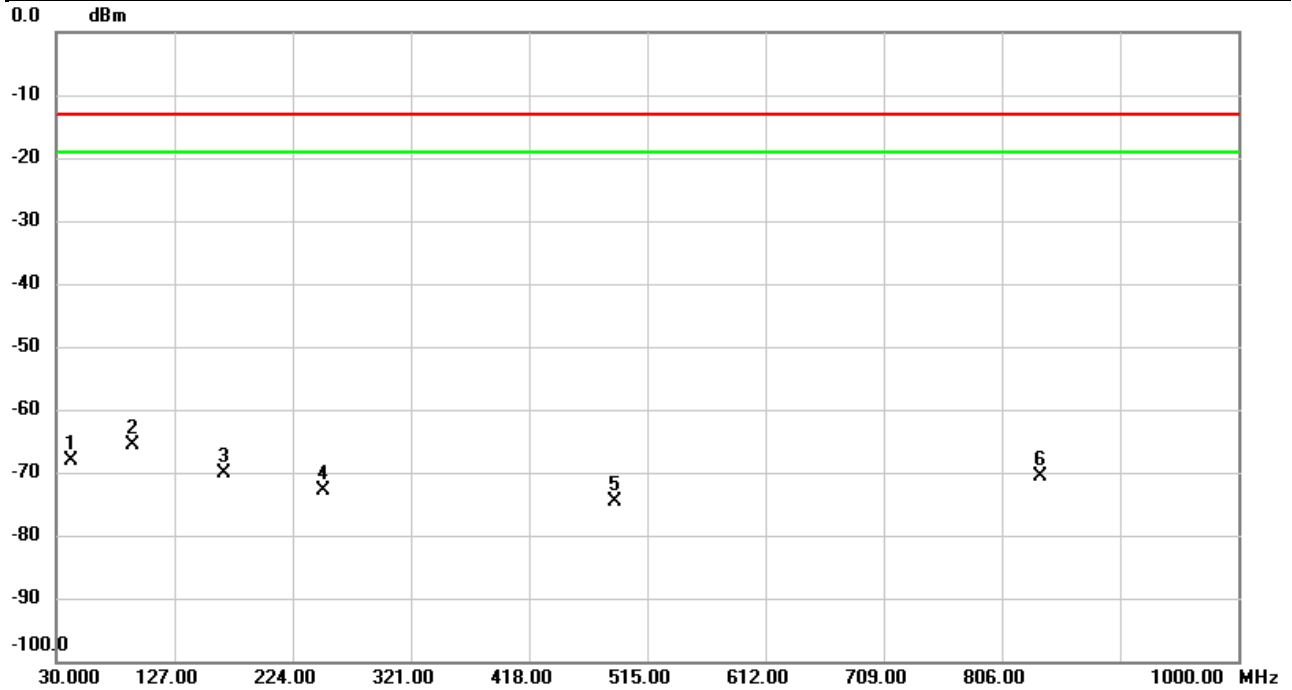
(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

APPENDIX B RADIATED SPURIOUS EMISSIONS

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4182	Polarization	Vertical
Temp	23°C	Hum.	56%

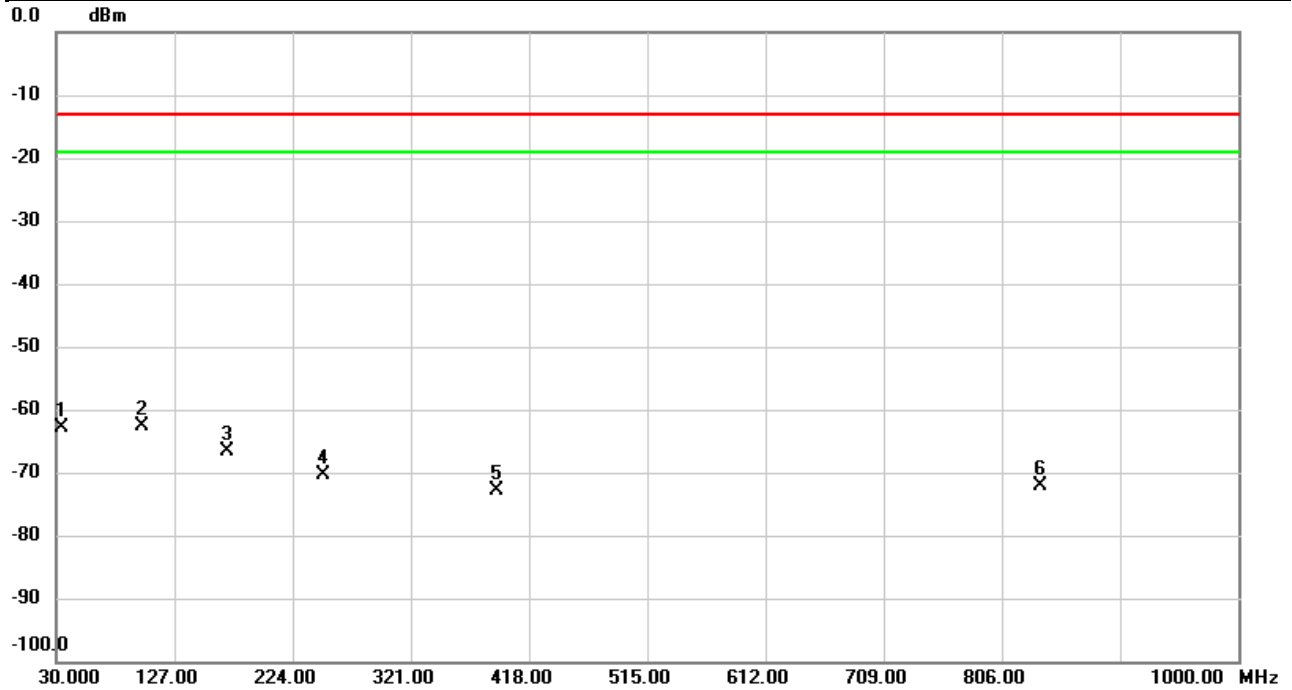


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		42.0280	-59.73	-8.44	-68.17	-13.00	-55.17	peak	
2	*	93.3733	-59.75	-5.83	-65.58	-13.00	-52.58	peak	
3		167.5460	-68.14	-1.93	-70.07	-13.00	-57.07	peak	
4		249.6080	-69.99	-2.94	-72.93	-13.00	-59.93	peak	
5		489.0687	-74.35	-0.31	-74.66	-13.00	-61.66	peak	
6		837.1047	-75.34	4.65	-70.69	-13.00	-57.69	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4182	Polarization	Horizontal
Temp	23°C	Hum.	56%

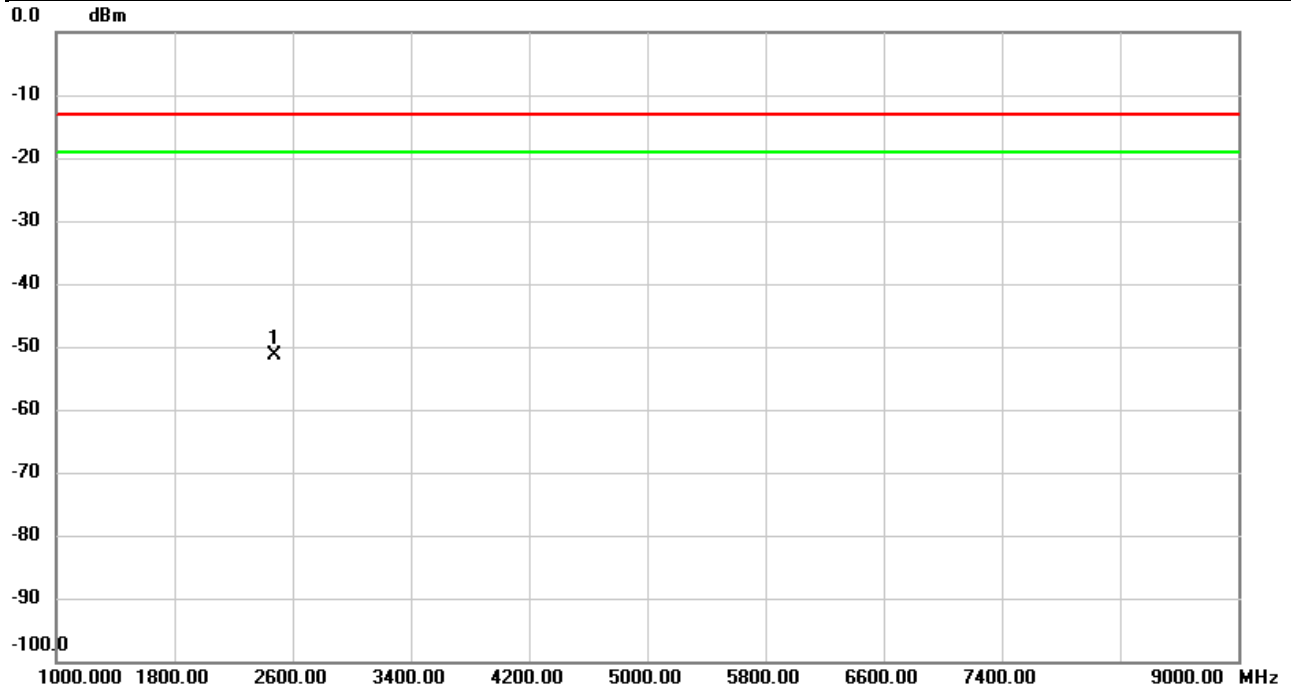


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		34.6560	-65.35	2.36	-62.99	-13.00	-49.99	peak	
2	*	100.5836	-54.71	-7.84	-62.55	-13.00	-49.55	peak	
3		170.1650	-61.07	-5.62	-66.69	-13.00	-53.69	peak	
4		249.1877	-62.35	-8.01	-70.36	-13.00	-57.36	peak	
5		390.9370	-70.51	-2.47	-72.98	-13.00	-59.98	peak	
6		837.7513	-76.17	3.99	-72.18	-13.00	-59.18	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4132	Polarization	Vertical
Temp	22°C	Hum.	59%

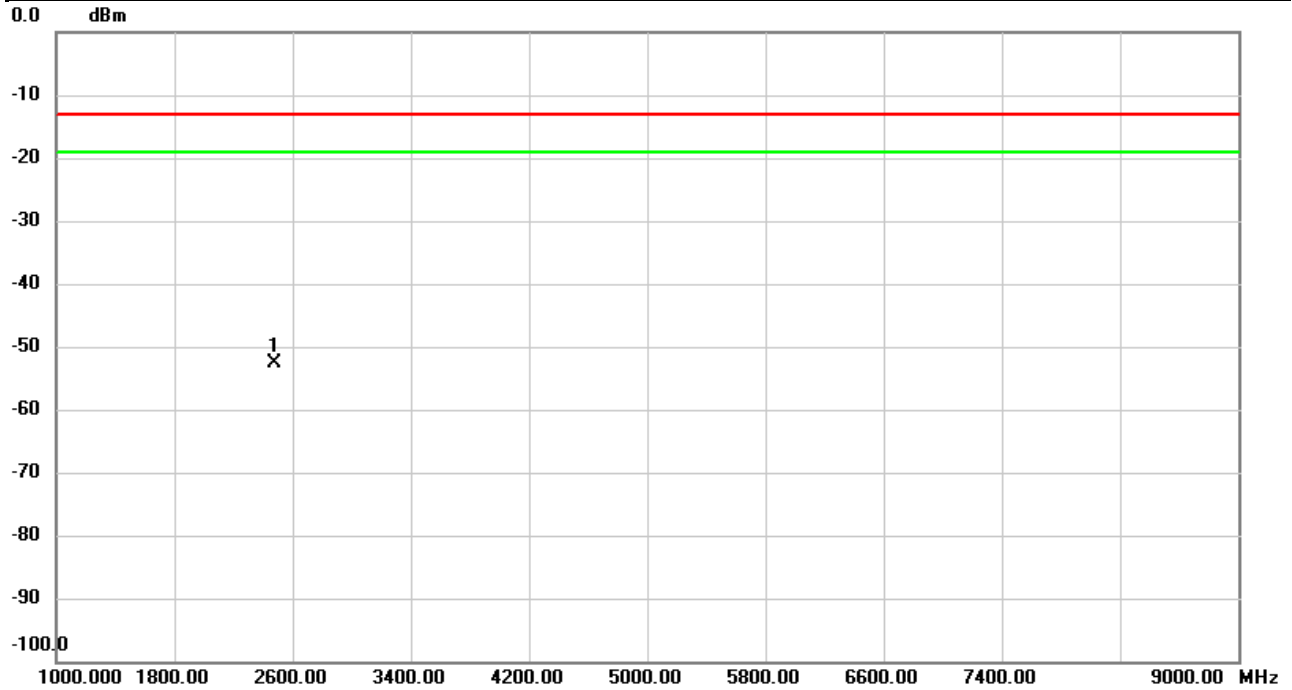


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2482.400	-58.80	7.46	-51.34	-13.00	-38.34	peak	

REMARKS:

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

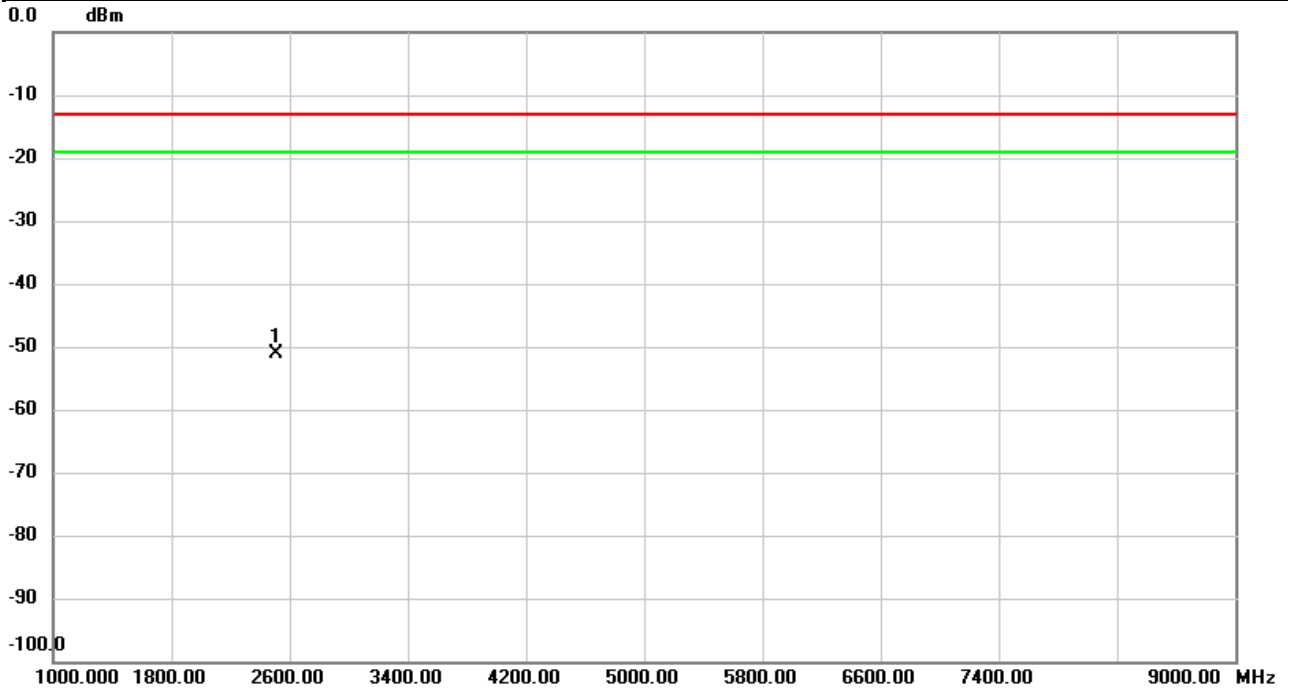
Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4132	Polarization	Horizontal
Temp	22°C	Hum.	59%



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	2482.133	-59.98	7.32	-52.66	-13.00	-39.66	peak	

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

Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4182	Polarization	Vertical
Temp	22°C	Hum.	59%

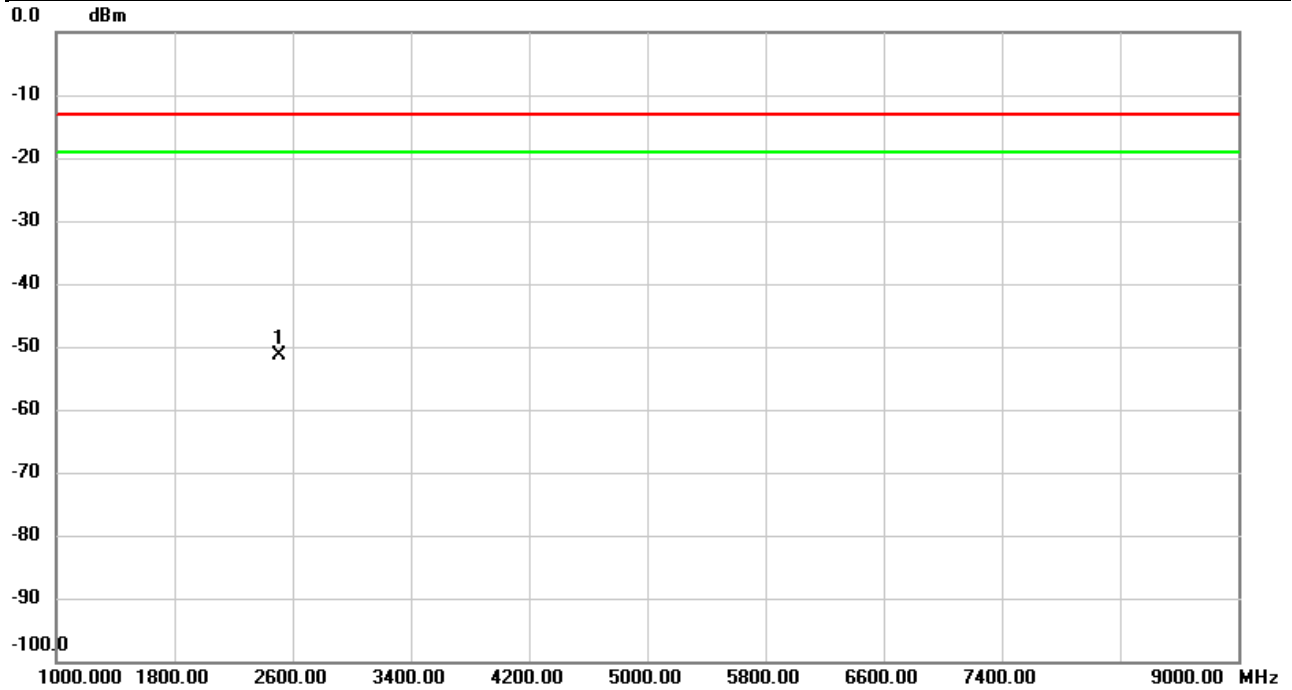


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2513.600	-58.43	7.43	-51.00	-13.00	-38.00	peak	

REMARKS:

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

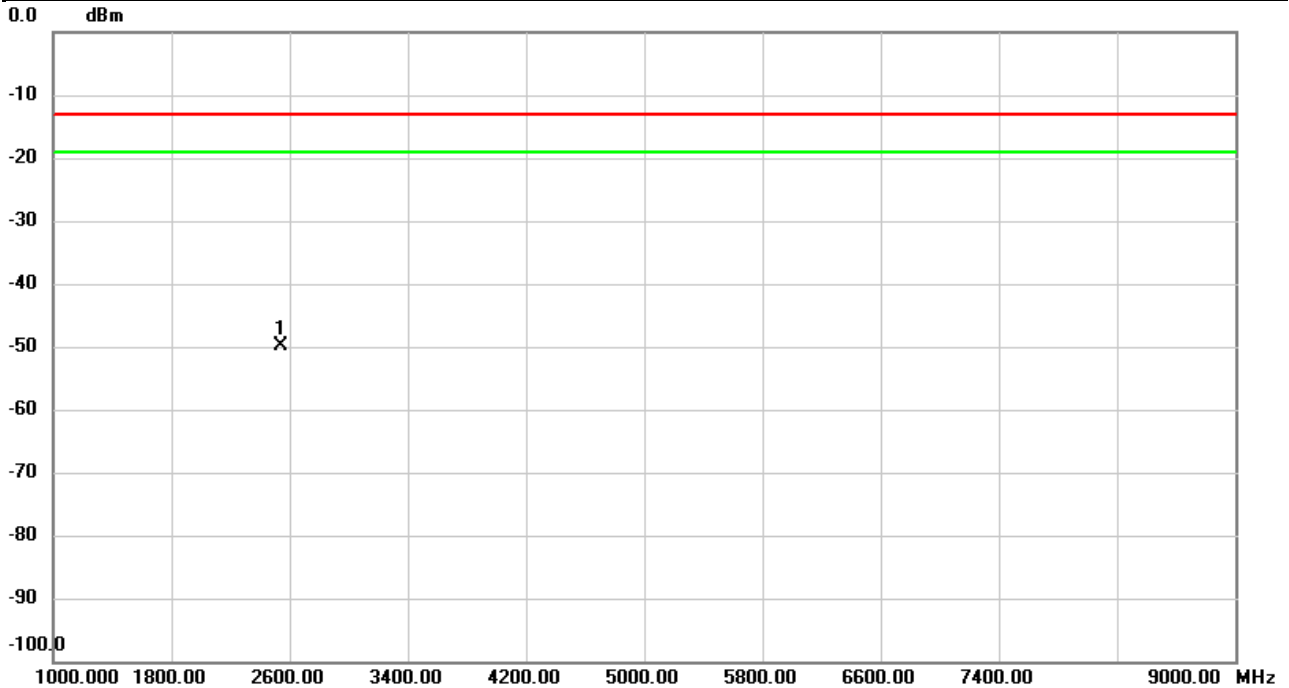
Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4182	Polarization	Horizontal
Temp	22°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2511.733	-58.65	7.29	-51.36	-13.00	-38.36	peak	

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

Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4233	Polarization	Vertical
Temp	22°C	Hum.	59%

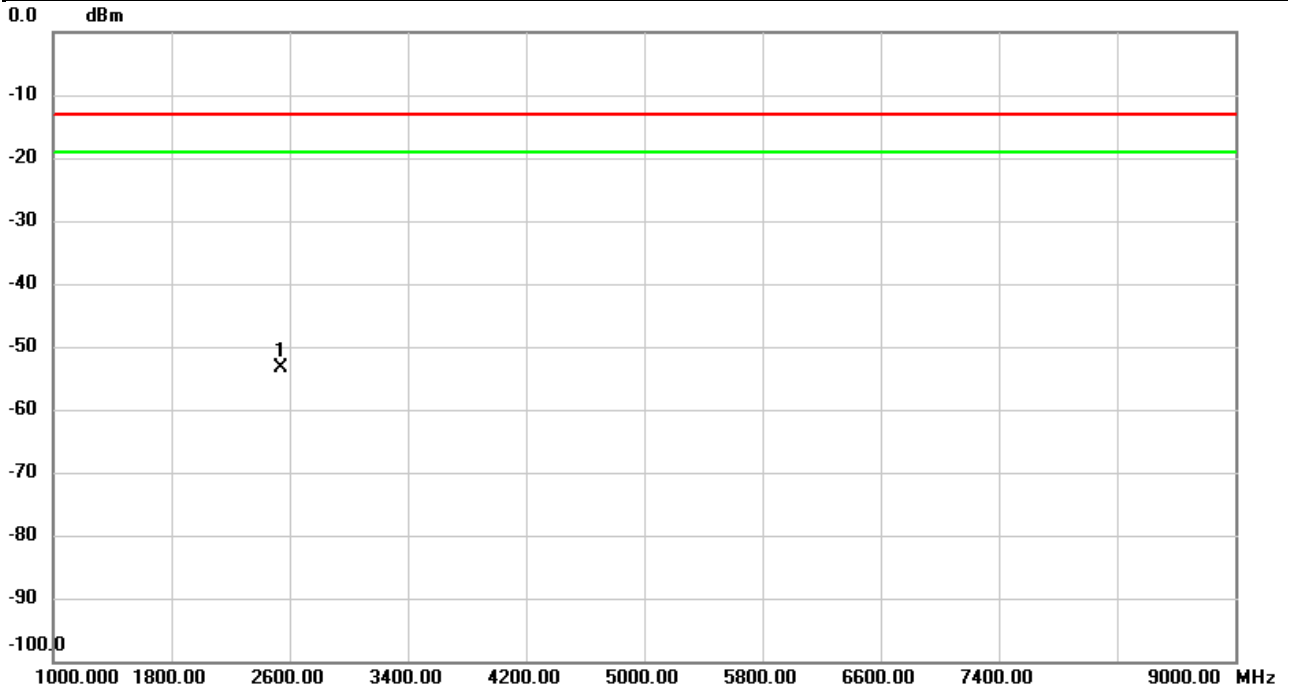


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2540.533	-57.47	7.63	-49.84	-13.00	-36.84	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/30
Test Channel	CH4233	Polarization	Horizontal
Temp	22°C	Hum.	59%

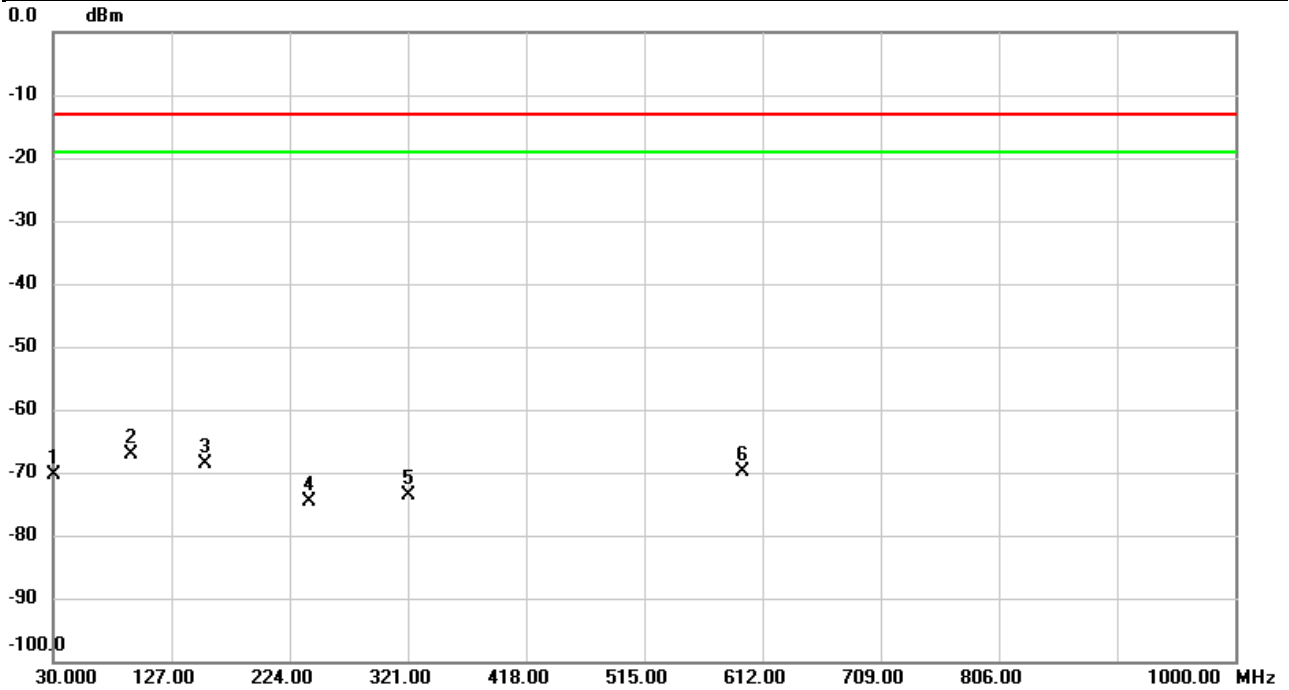


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2539.800	-60.87	7.52	-53.35	-13.00	-40.35	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/29
Test Channel	CH20600	Polarization	Vertical
Temp	23°C	Hum.	56%

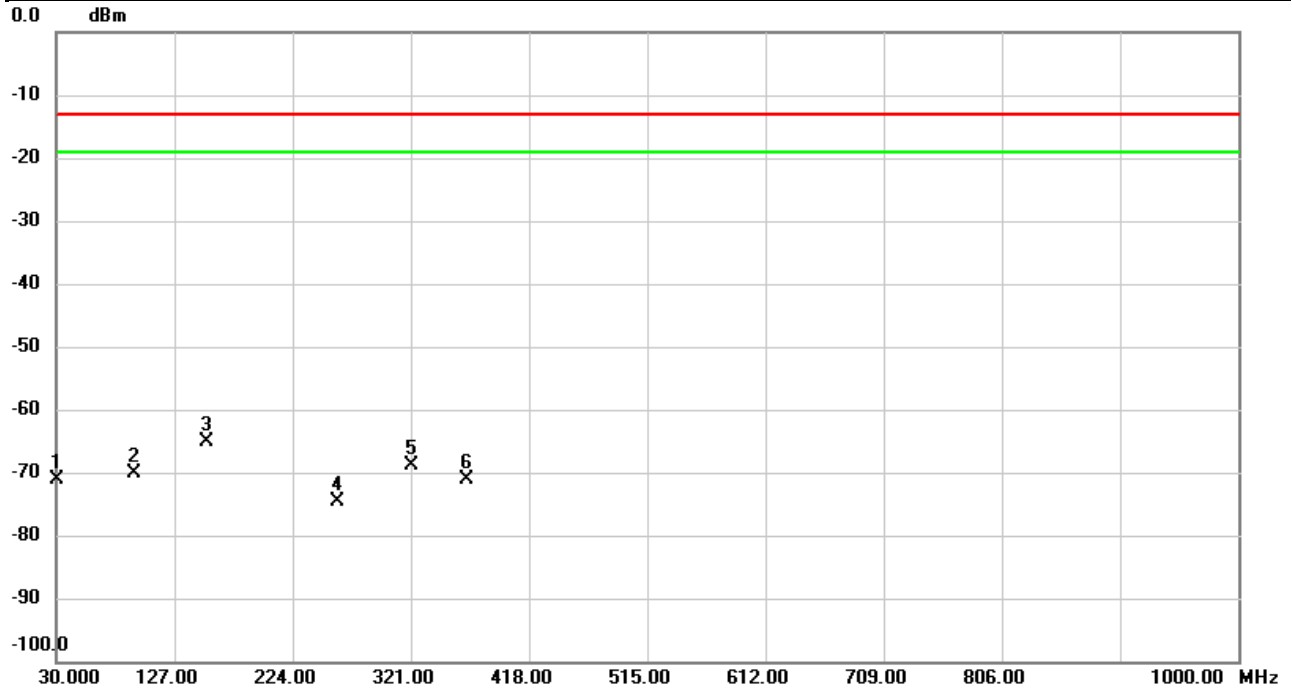


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		31.2610	-61.30	-9.19	-70.49	-13.00	-57.49	peak	
2	*	93.4057	-61.18	-5.83	-67.01	-13.00	-54.01	peak	
3		155.2917	-66.25	-2.43	-68.68	-13.00	-55.68	peak	
4		240.5870	-72.33	-2.38	-74.71	-13.00	-61.71	peak	
5		321.0323	-70.61	-3.09	-73.70	-13.00	-60.70	peak	
6		595.5423	-73.09	3.16	-69.93	-13.00	-56.93	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/29
Test Channel	CH20600	Polarization	Horizontal
Temp	23°C	Hum.	56%

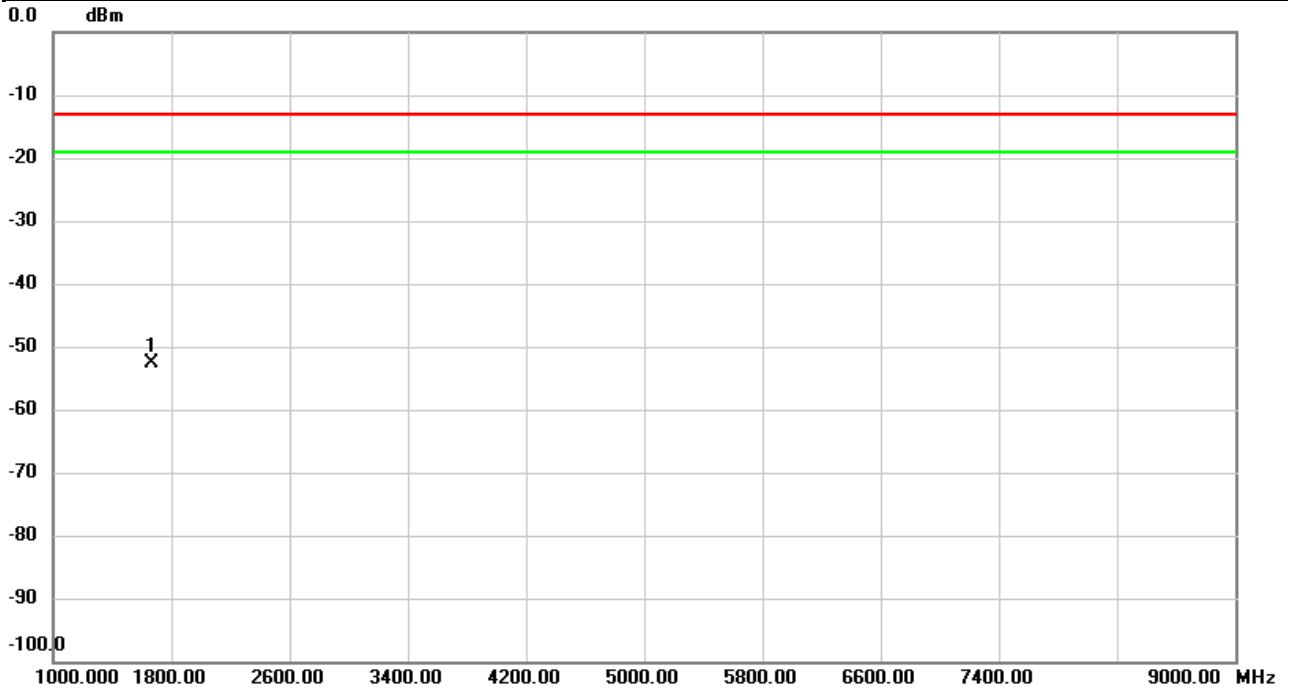


No.	Mk.	Freq. (MHz)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	Limit (dBm)	Over (dB)	Detector	Comment
1		30.0000	-73.89	2.87	-71.02	-13.00	-58.02	peak	
2		94.4080	-61.97	-8.11	-70.08	-13.00	-57.08	peak	
3	*	153.9660	-59.32	-5.80	-65.12	-13.00	-52.12	peak	
4		260.3103	-67.08	-7.61	-74.69	-13.00	-61.69	peak	
5		321.0647	-64.22	-4.64	-68.86	-13.00	-55.86	peak	
6		367.3337	-68.65	-2.57	-71.22	-13.00	-58.22	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20450	Polarization	Vertical
Temp	21°C	Hum.	57%

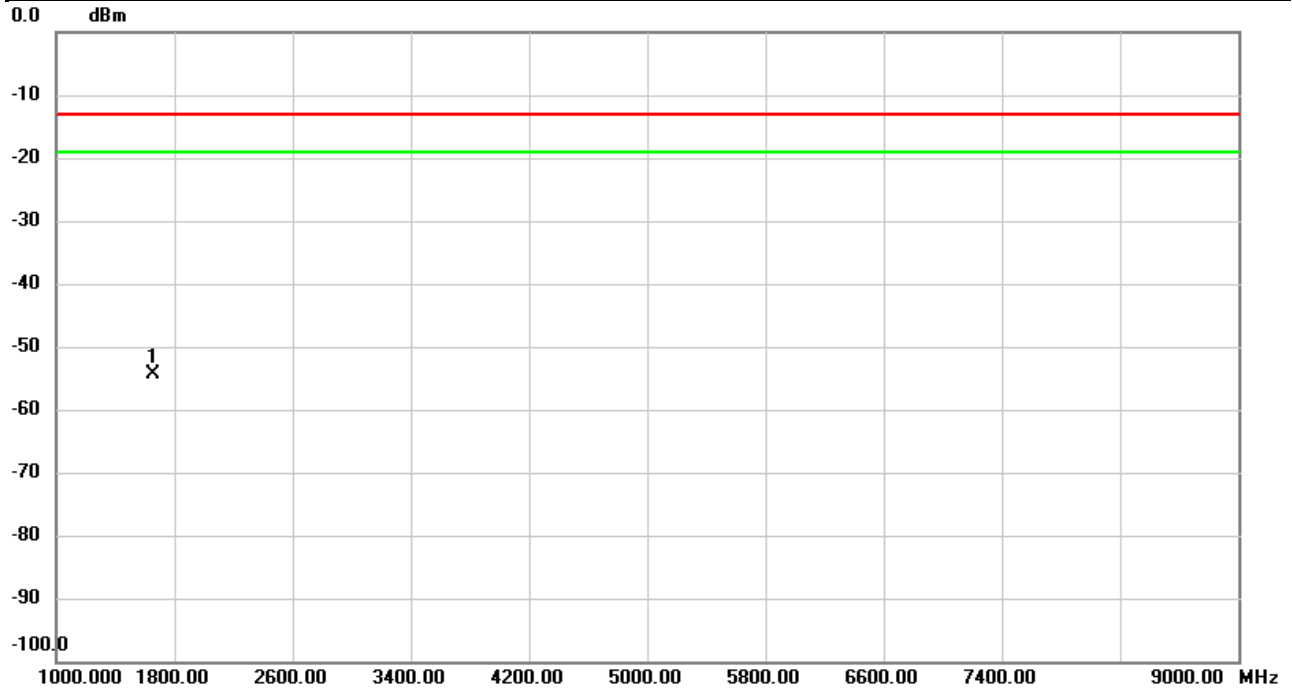


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1663.467	-58.20	5.63	-52.57	-13.00	-39.57	peak	

REMARKS:

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

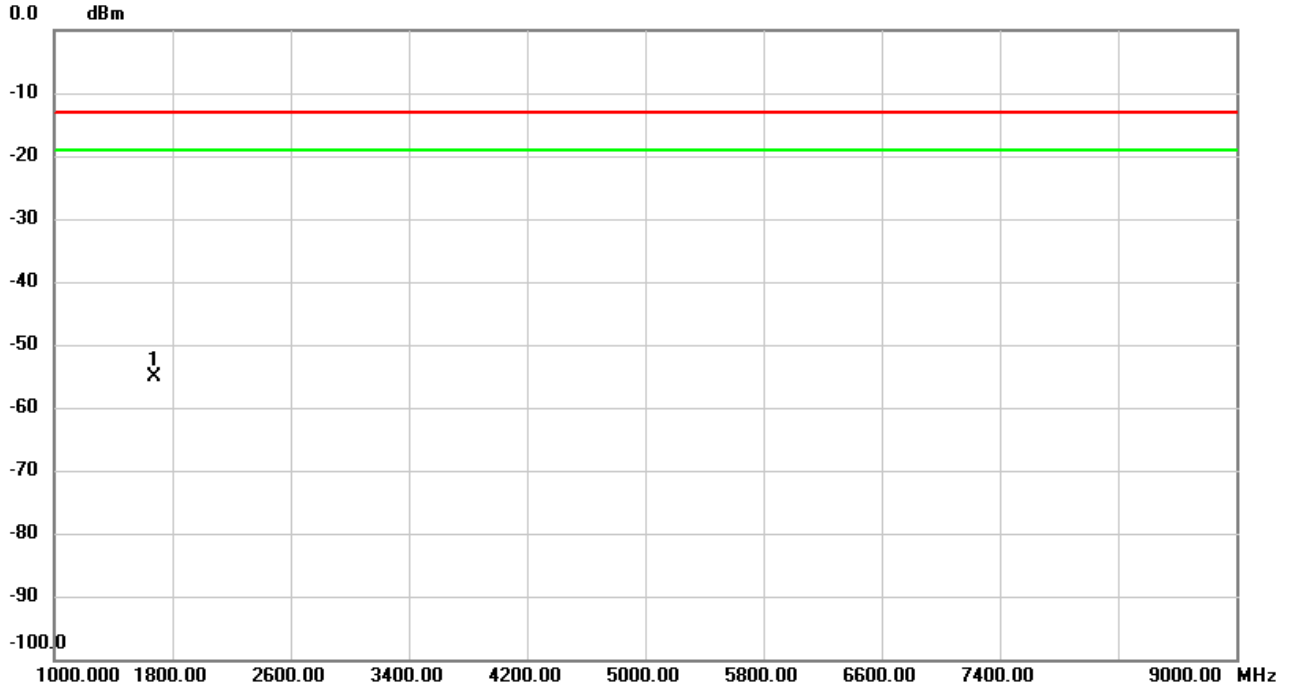
Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20450	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1654.667	-59.83	5.53	-54.30	-13.00	-41.30	peak	

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

Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20525	Polarization	Vertical
Temp	21°C	Hum.	57%

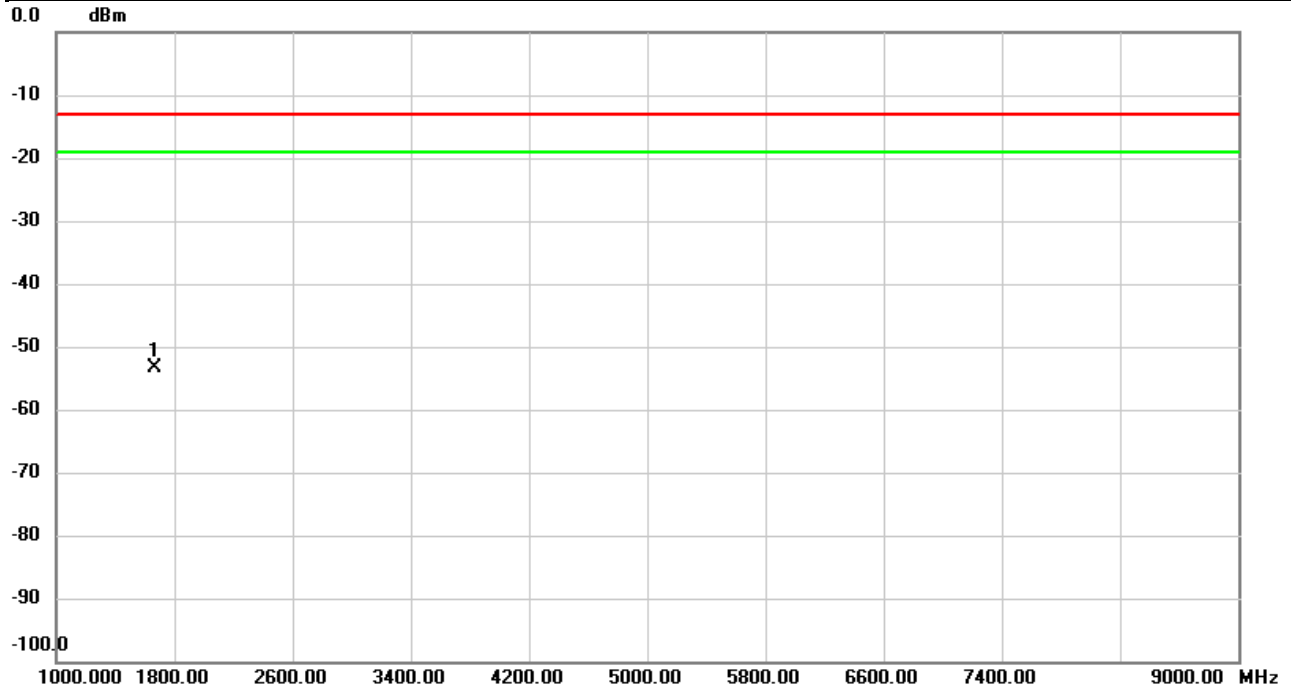


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1678.400	-60.65	5.65	-55.00	-13.00	-42.00	peak	

REMARKS:

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

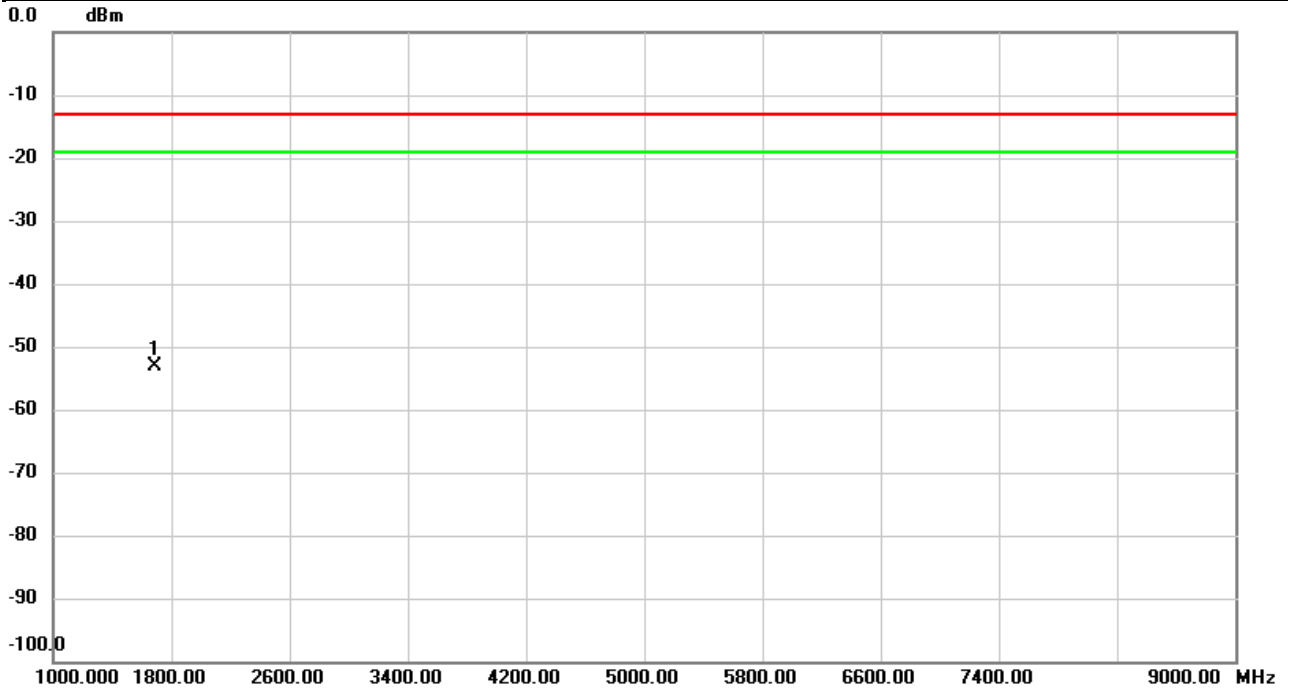
Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20525	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1668.533	-58.84	5.56	-53.28	-13.00	-40.28	peak	

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

Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20600	Polarization	Vertical
Temp	21°C	Hum.	57%

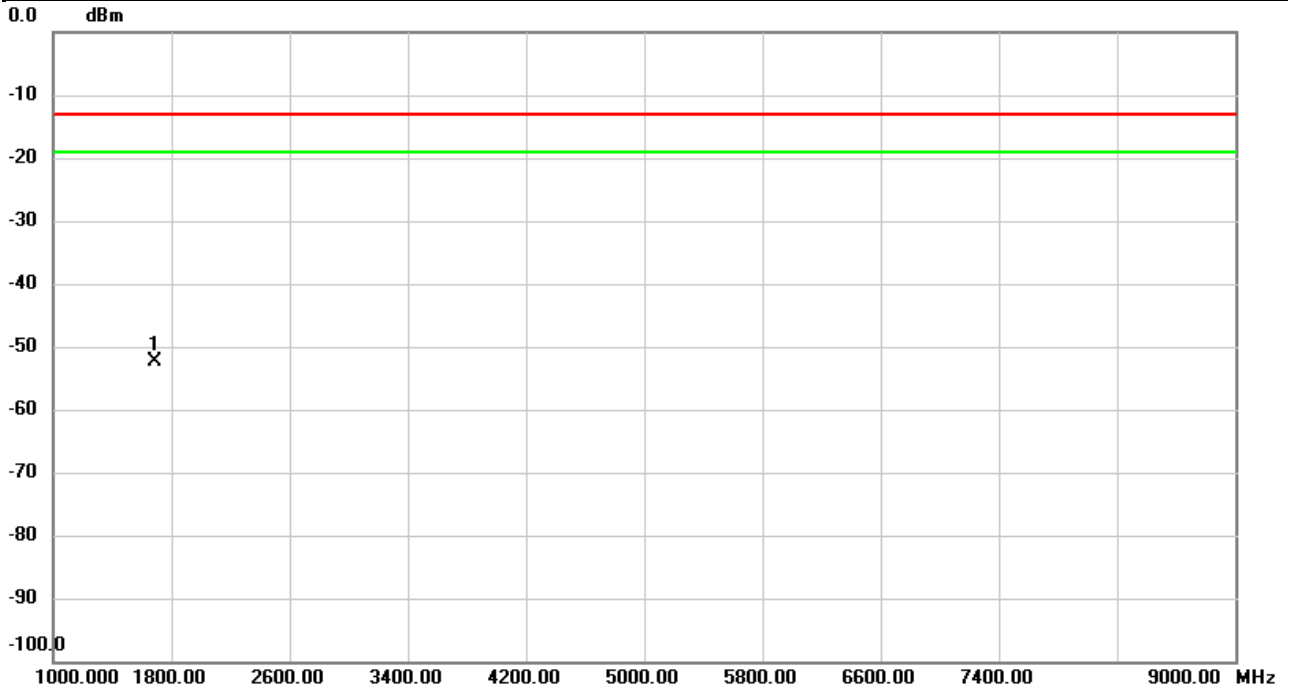


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1684.000	-58.66	5.65	-53.01	-13.00	-40.01	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/27
Test Channel	CH20600	Polarization	Horizontal
Temp	21°C	Hum.	57%

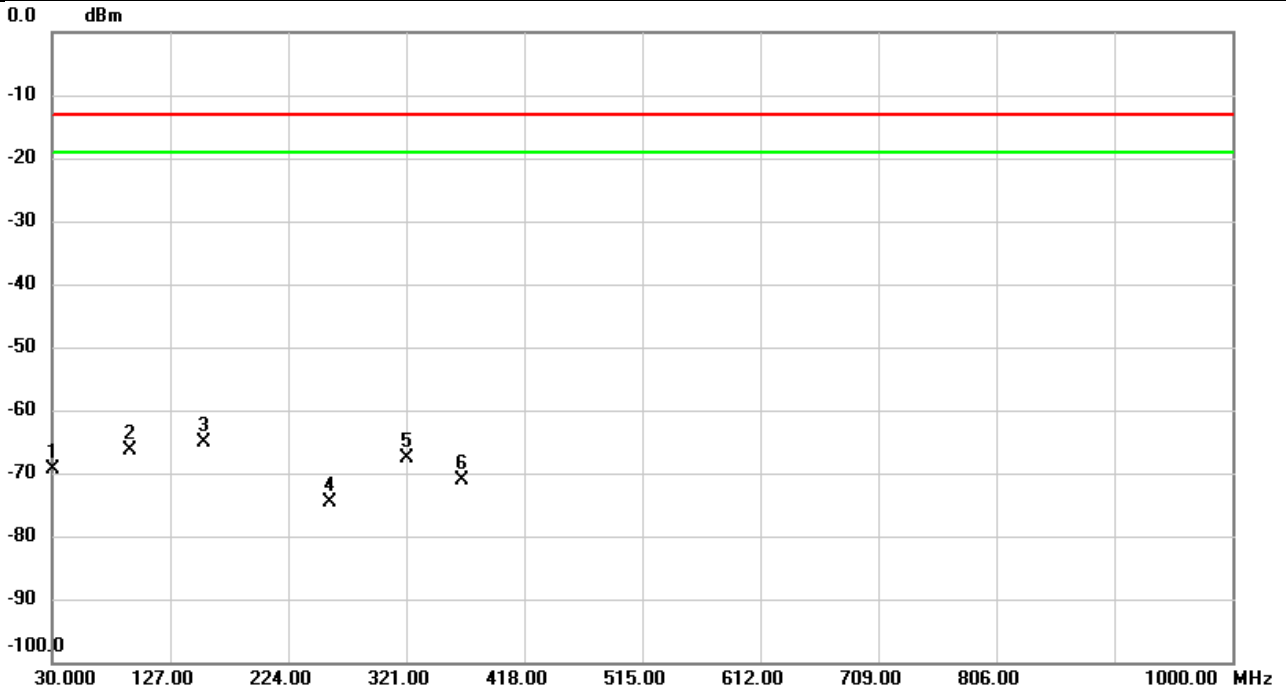


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1688.533	-57.96	5.61	-52.35	-13.00	-39.35	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/29
Test Channel	CH26865	Polarization	Vertical
Temp	23°C	Hum.	56%

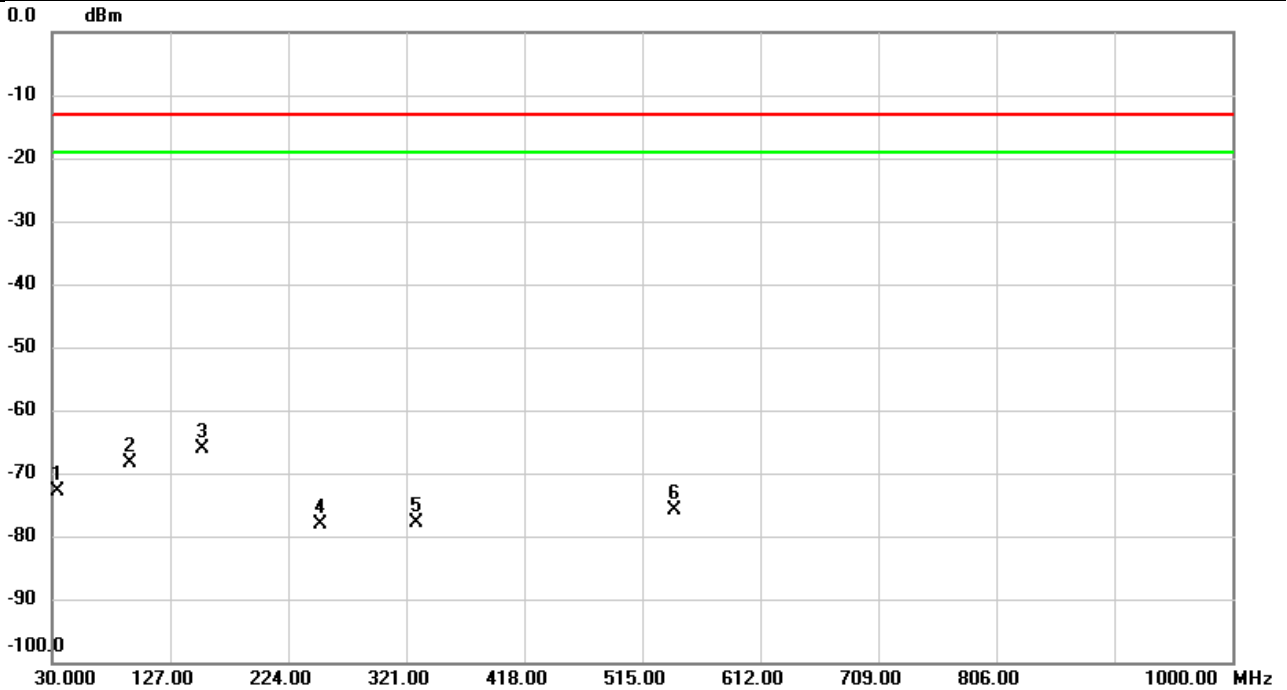


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		30.0000	-72.27	2.87	-69.40	-13.00	-56.40	peak	
2		94.0200	-58.31	-8.13	-66.44	-13.00	-53.44	peak	
3	*	154.6773	-59.26	-5.83	-65.09	-13.00	-52.09	peak	
4		258.8877	-67.07	-7.66	-74.73	-13.00	-61.73	peak	
5		321.0323	-62.86	-4.64	-67.50	-13.00	-54.50	peak	
6		366.3313	-68.47	-2.57	-71.04	-13.00	-58.04	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/29
Test Channel	CH26865	Polarization	Horizontal
Temp	23°C	Hum.	56%

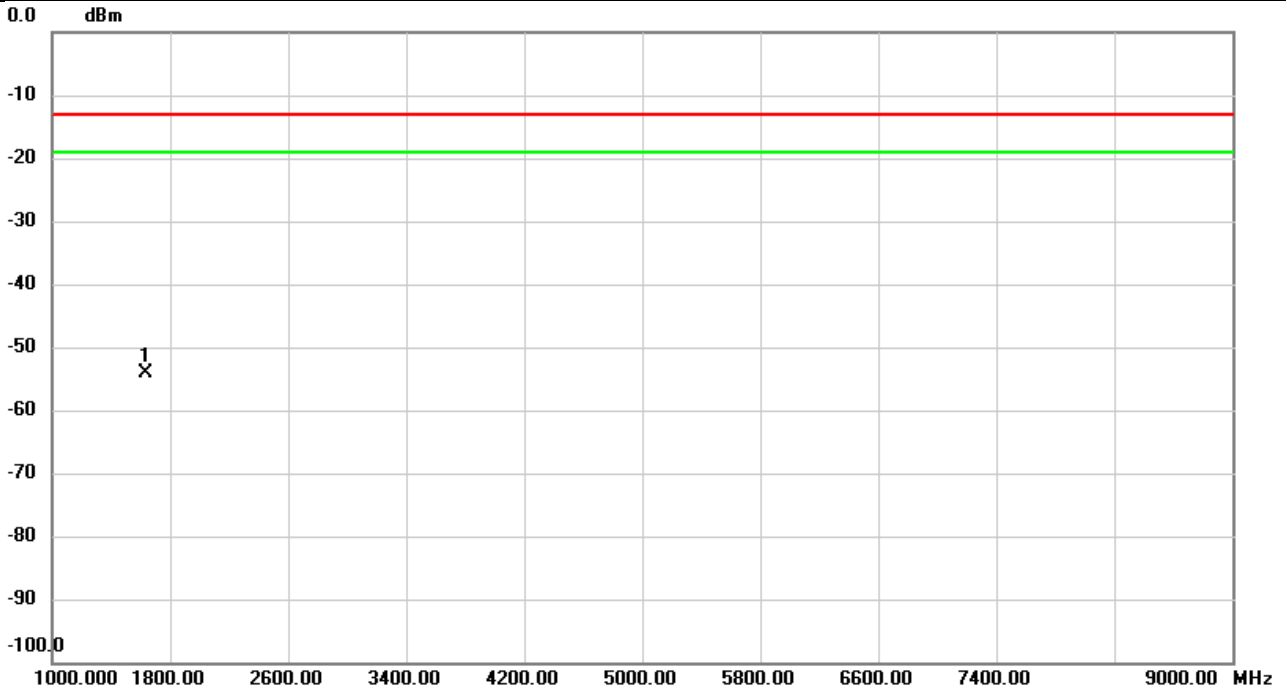


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		34.2680	-75.29	2.40	-72.89	-13.00	-59.89	peak	
2		93.4380	-60.27	-8.16	-68.43	-13.00	-55.43	peak	
3	*	153.9983	-60.36	-5.80	-66.16	-13.00	-53.16	peak	
4		250.0283	-70.13	-8.00	-78.13	-13.00	-65.13	peak	
5		329.7947	-73.88	-4.04	-77.92	-13.00	-64.92	peak	
6		541.6750	-74.94	-0.82	-75.76	-13.00	-62.76	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26865	Polarization	Vertical
Temp	21°C	Hum.	57%

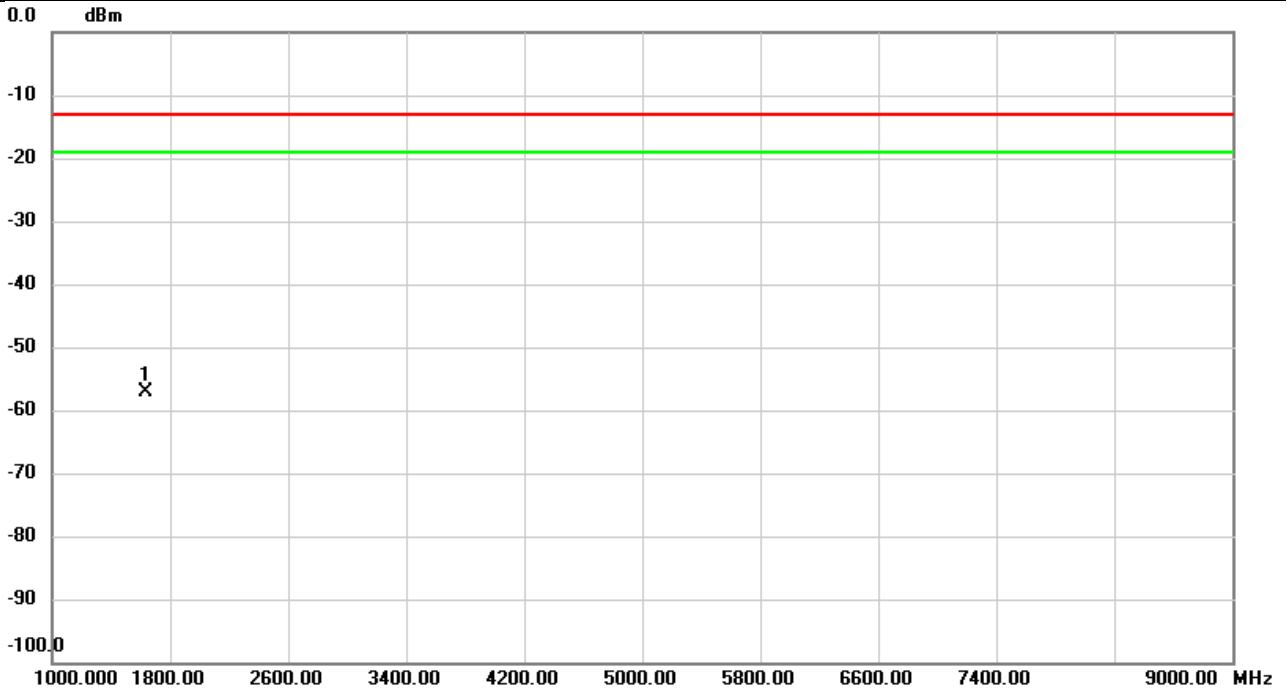


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1637.000	-59.43	5.41	-54.02	-13.00	-41.02	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26865	Polarization	Horizontal
Temp	21°C	Hum.	57%

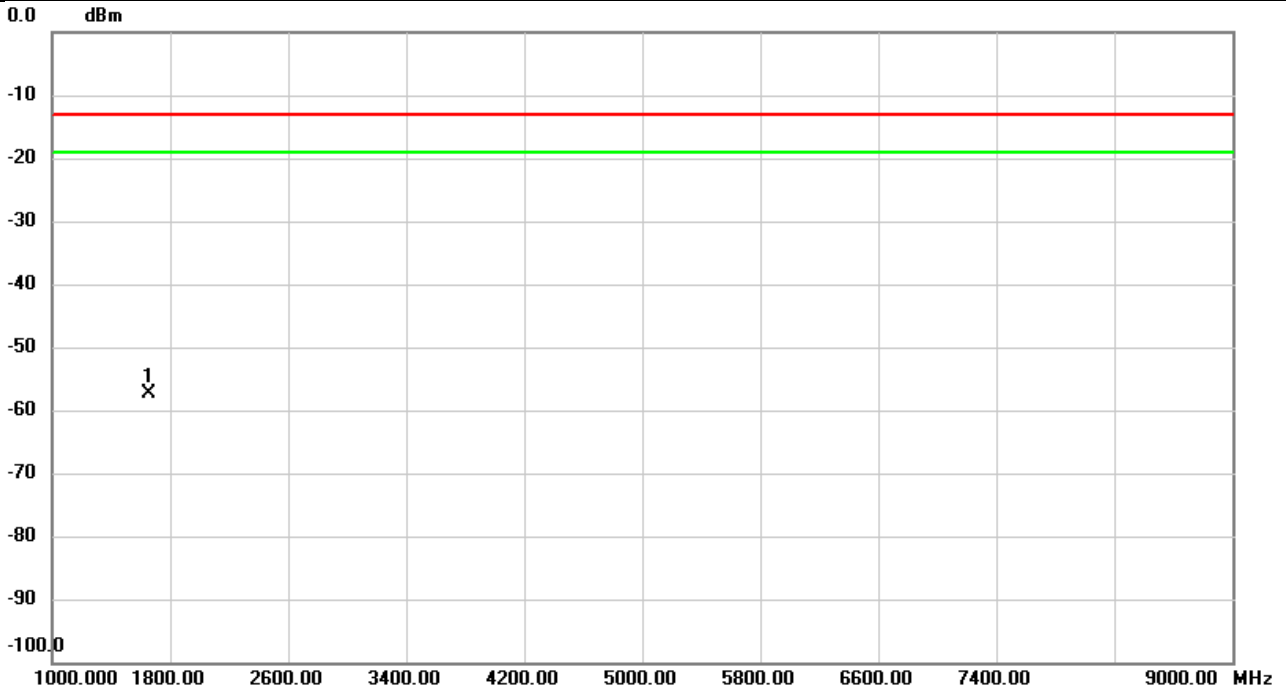


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1637.000	-62.44	5.37	-57.07	-13.00	-44.07	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26915	Polarization	Vertical
Temp	21°C	Hum.	57%

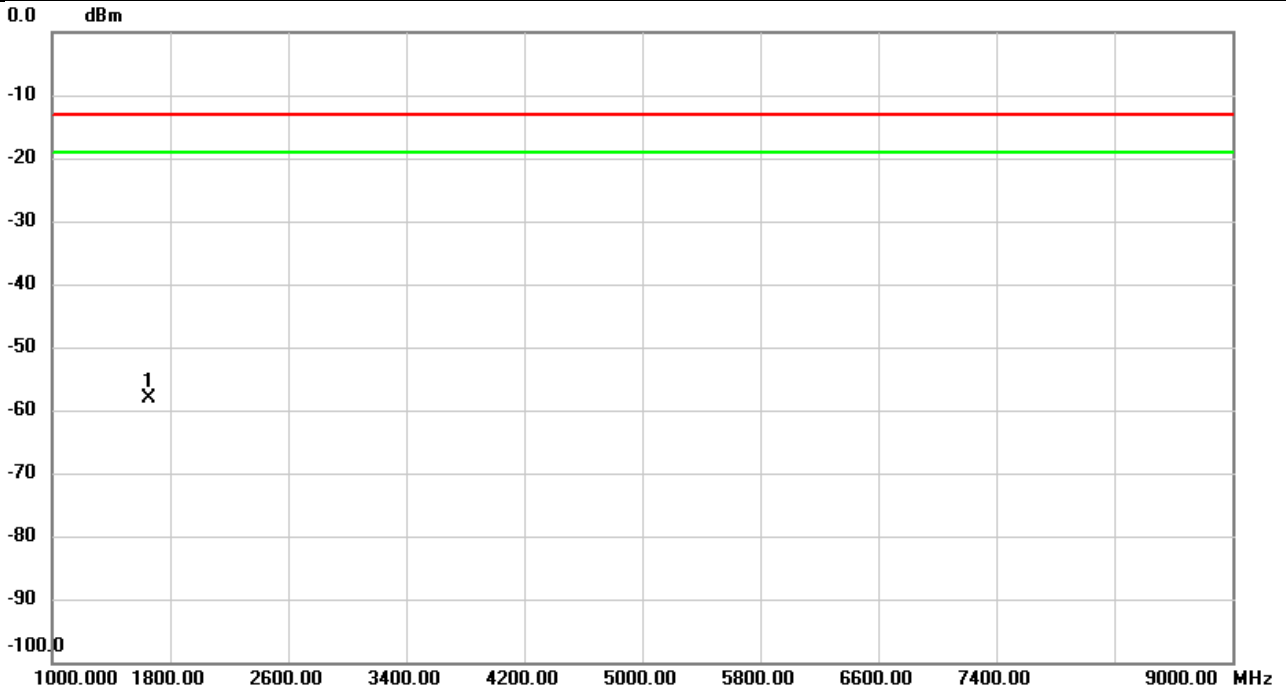


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1658.000	-62.99	5.63	-57.36	-13.00	-44.36	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26915	Polarization	Horizontal
Temp	21°C	Hum.	57%

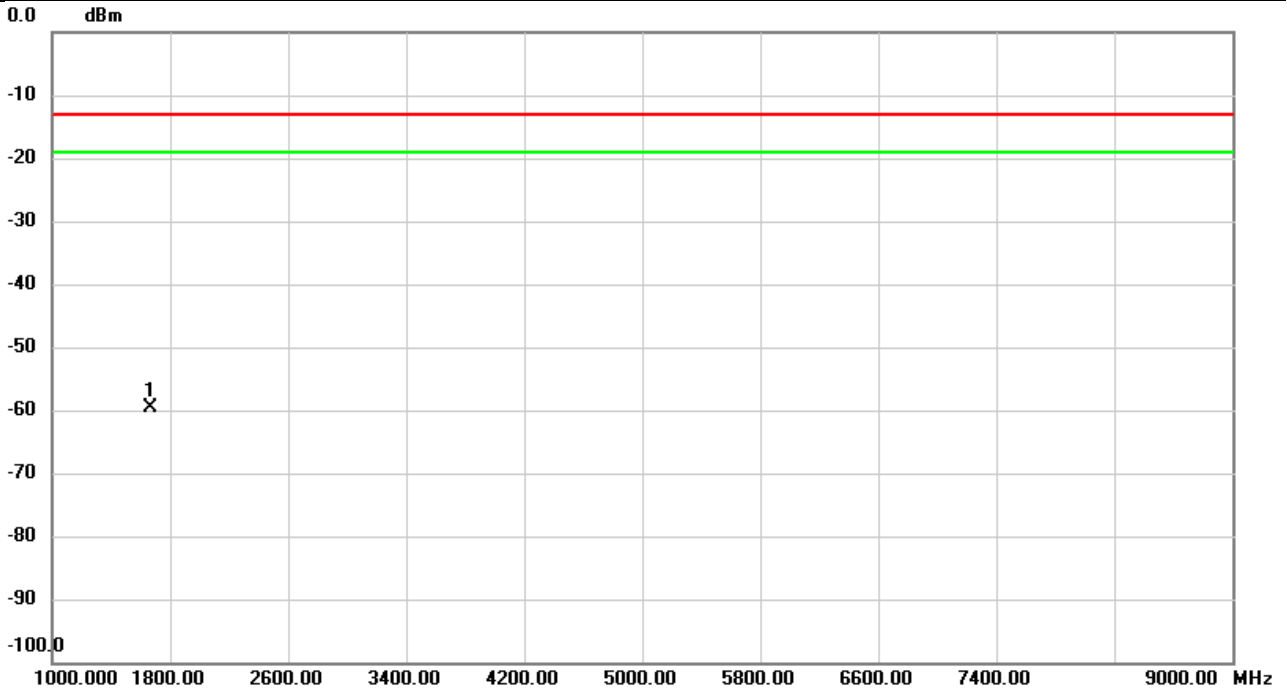


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1658.000	-63.57	5.54	-58.03	-13.00	-45.03	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26965	Polarization	Vertical
Temp	21°C	Hum.	57%

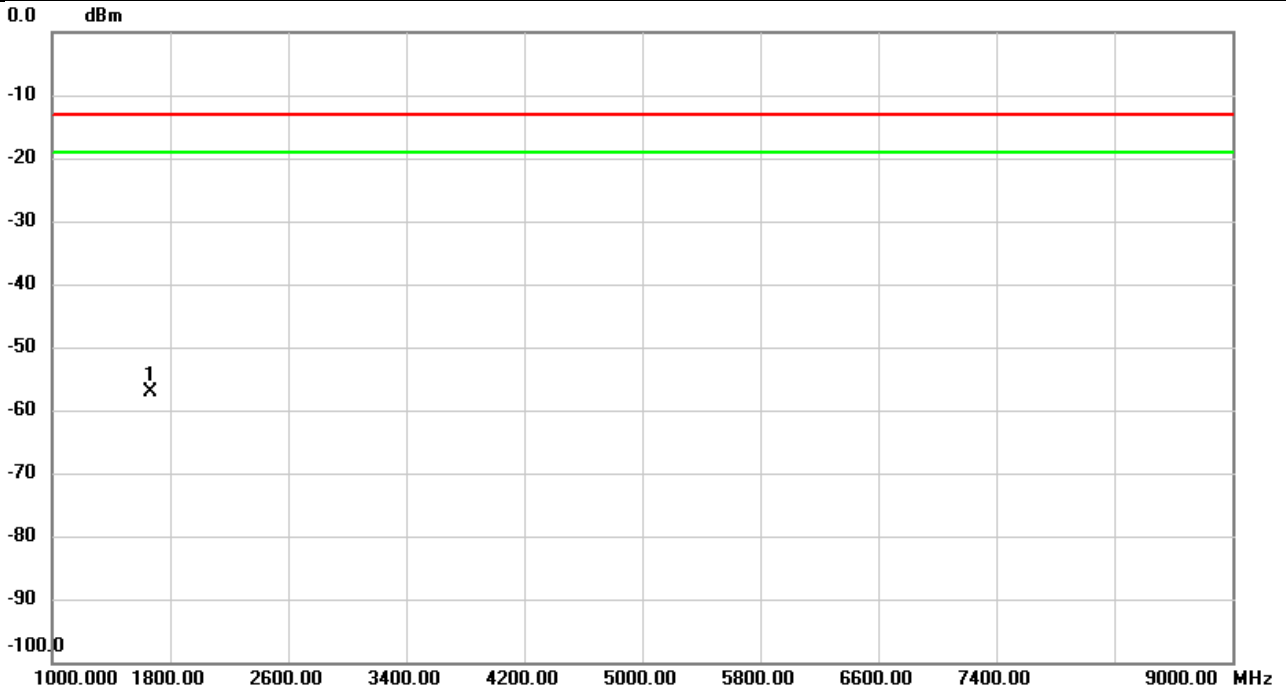


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1668.000	-65.14	5.64	-59.50	-13.00	-46.50	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/27
Test Channel	CH26965	Polarization	Horizontal
Temp	21°C	Hum.	57%

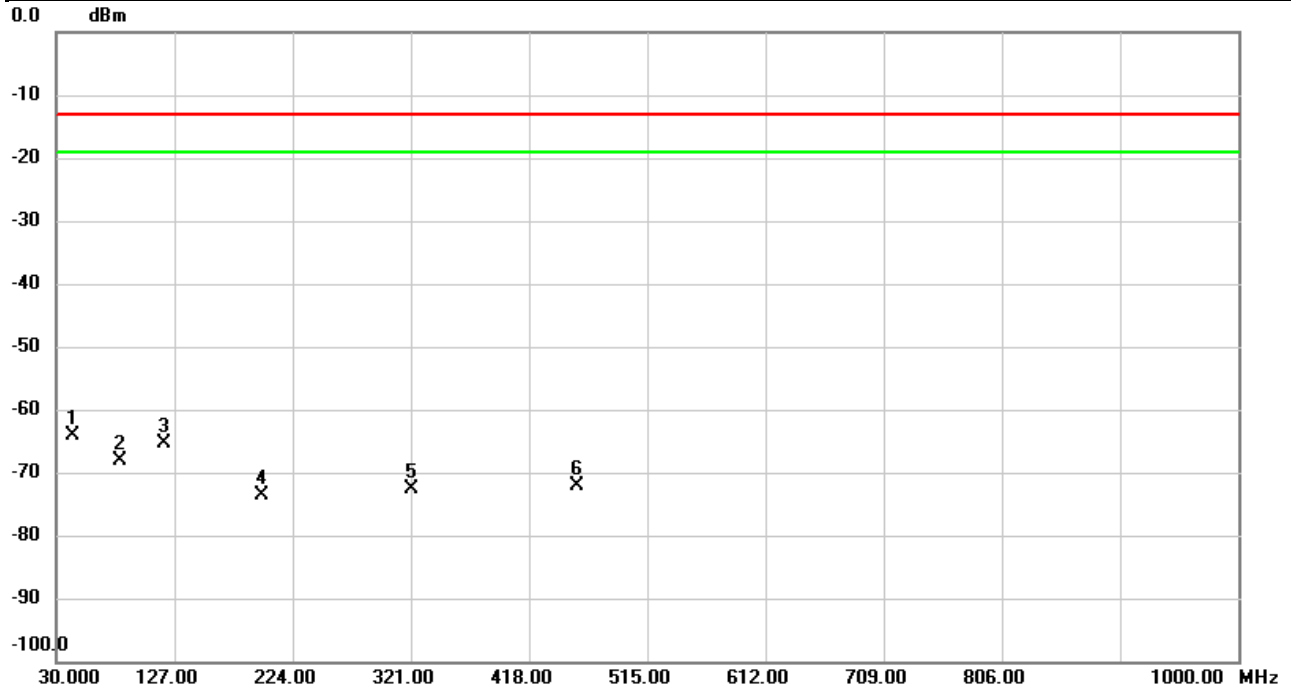


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1668.000	-62.75	5.56	-57.19	-13.00	-44.19	peak	

REMARKS:

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

Test Mode	LTE Band CA_5B	Test Date	2023/12/4
Test Channel	Low CH	Polarization	Vertical
Temp	22°C	Hum.	58%

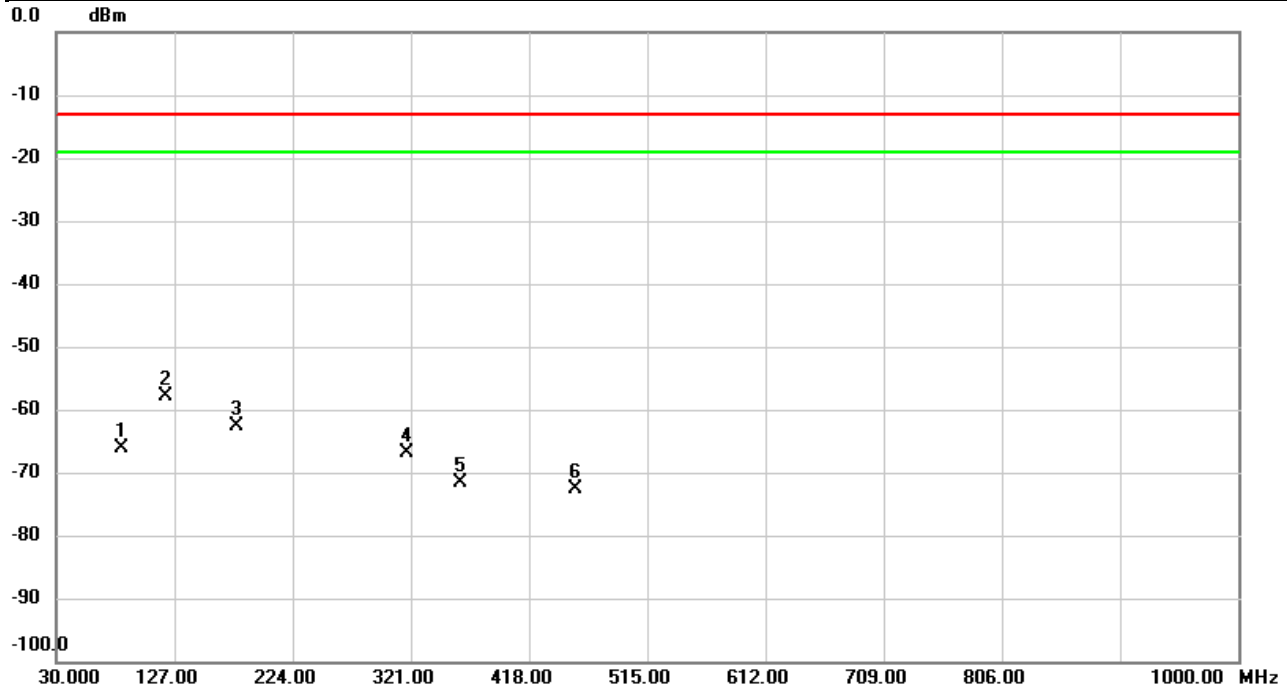


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	42.9657	-62.05	-2.15	-64.20	-13.00	-51.20	peak	
2		82.6386	-65.99	-2.15	-68.14	-13.00	-55.14	peak	
3		118.7873	-63.19	-2.15	-65.34	-13.00	-52.34	peak	
4		199.1356	-71.57	-2.15	-73.72	-13.00	-60.72	peak	
5		321.0323	-70.36	-2.15	-72.51	-13.00	-59.51	peak	
6		456.8000	-70.07	-2.15	-72.22	-13.00	-59.22	peak	

REMARKS:

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

Test Mode	LTE Band CA_5B	Test Date	2023/12/4
Test Channel	Low CH	Polarization	Horizontal
Temp	22°C	Hum.	58%

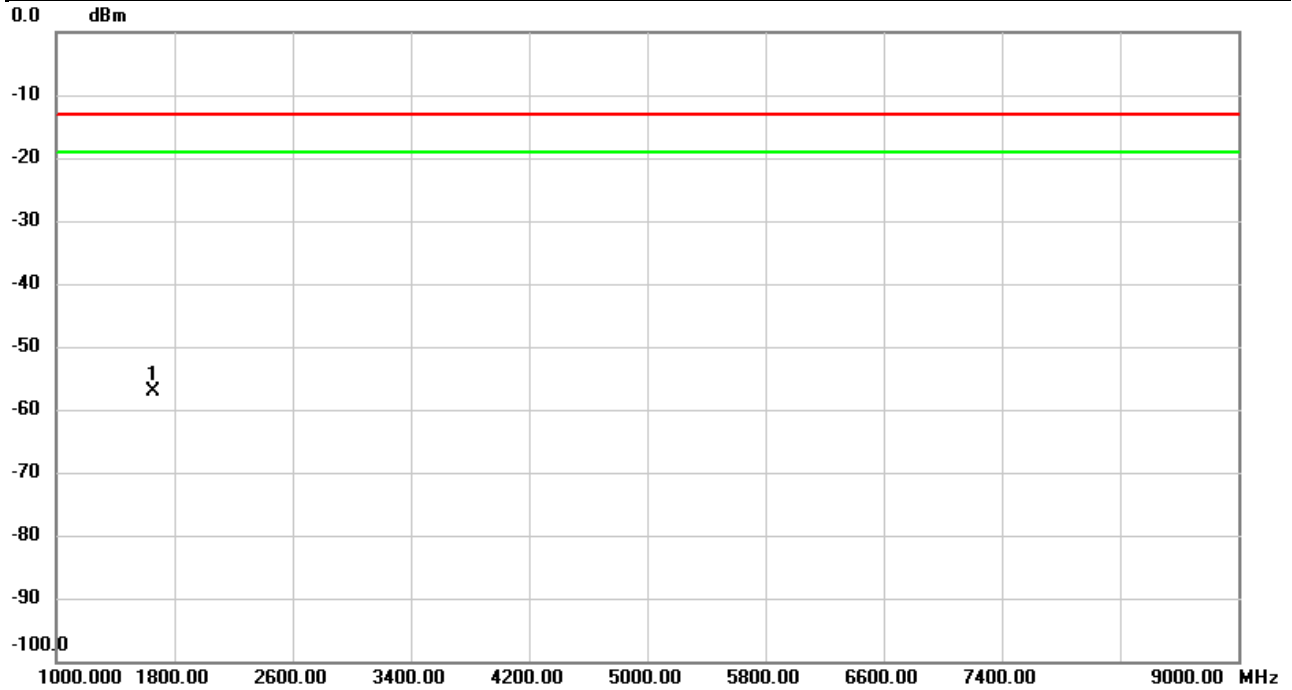


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		83.5117	-63.90	-2.15	-66.05	-13.00	-53.05	peak	
2	*	119.6280	-55.70	-2.15	-57.85	-13.00	-44.85	peak	
3		178.1190	-60.42	-2.15	-62.57	-13.00	-49.57	peak	
4		318.2840	-64.68	-2.15	-66.83	-13.00	-53.83	peak	
5		362.0633	-69.55	-2.15	-71.70	-13.00	-58.70	peak	
6		456.7353	-70.50	-2.15	-72.65	-13.00	-59.65	peak	

REMARKS:

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

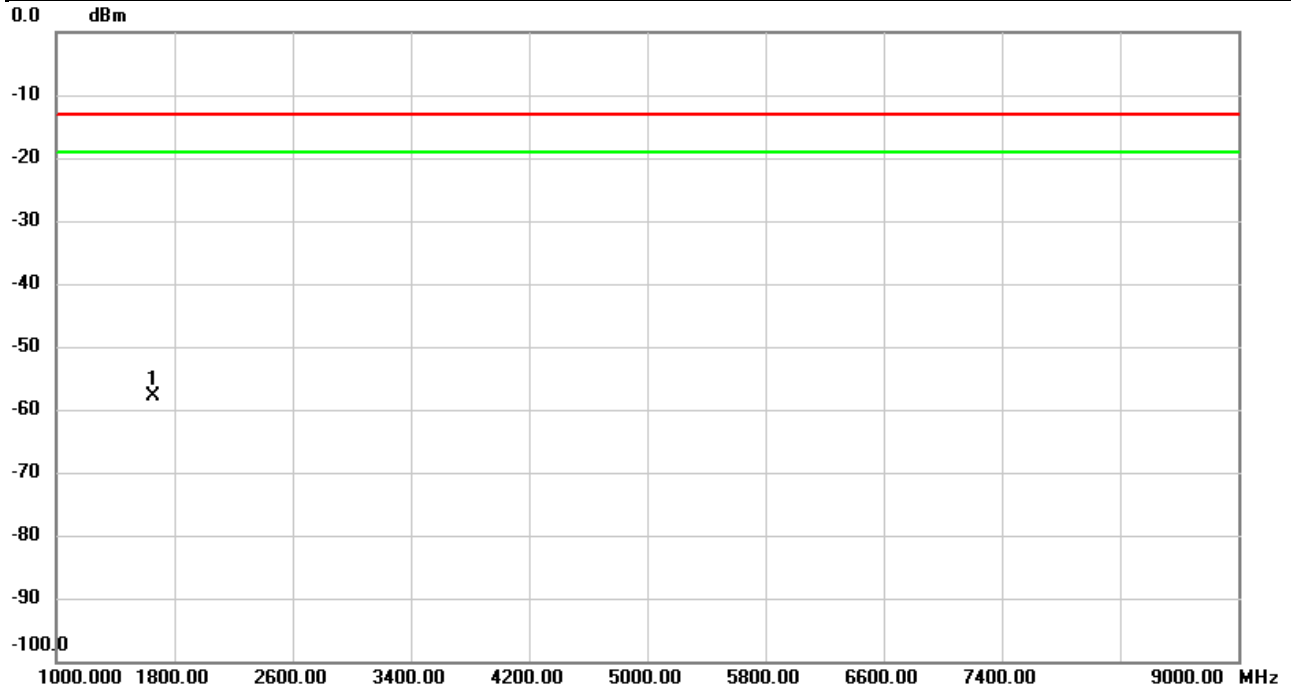
Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	Low CH	Polarization	Vertical
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1658.000	-62.83	5.63	-57.20	-13.00	-44.20	peak	

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

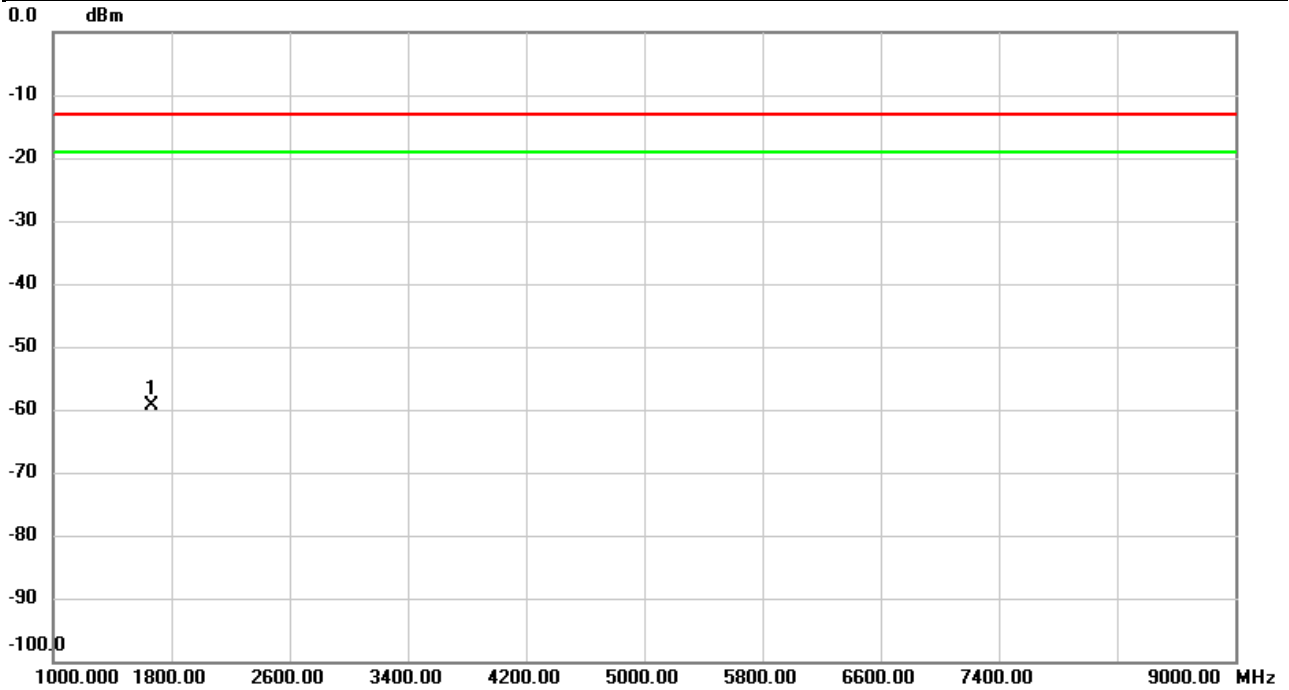
Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	Low CH	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1658.000	-63.41	5.54	-57.87	-13.00	-44.87	peak	

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

Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	Middle CH	Polarization	Vertical
Temp	21°C	Hum.	57%

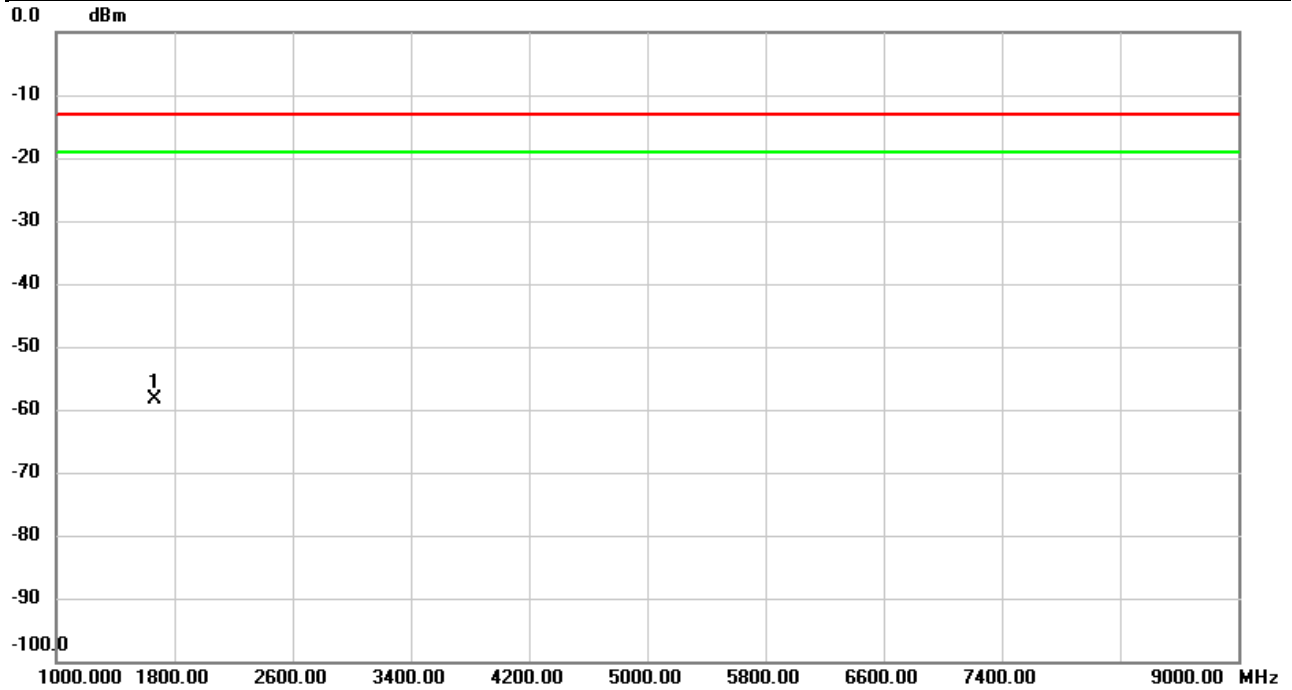


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1662.000	-64.96	5.63	-59.33	-13.00	-46.33	peak	

REMARKS:

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

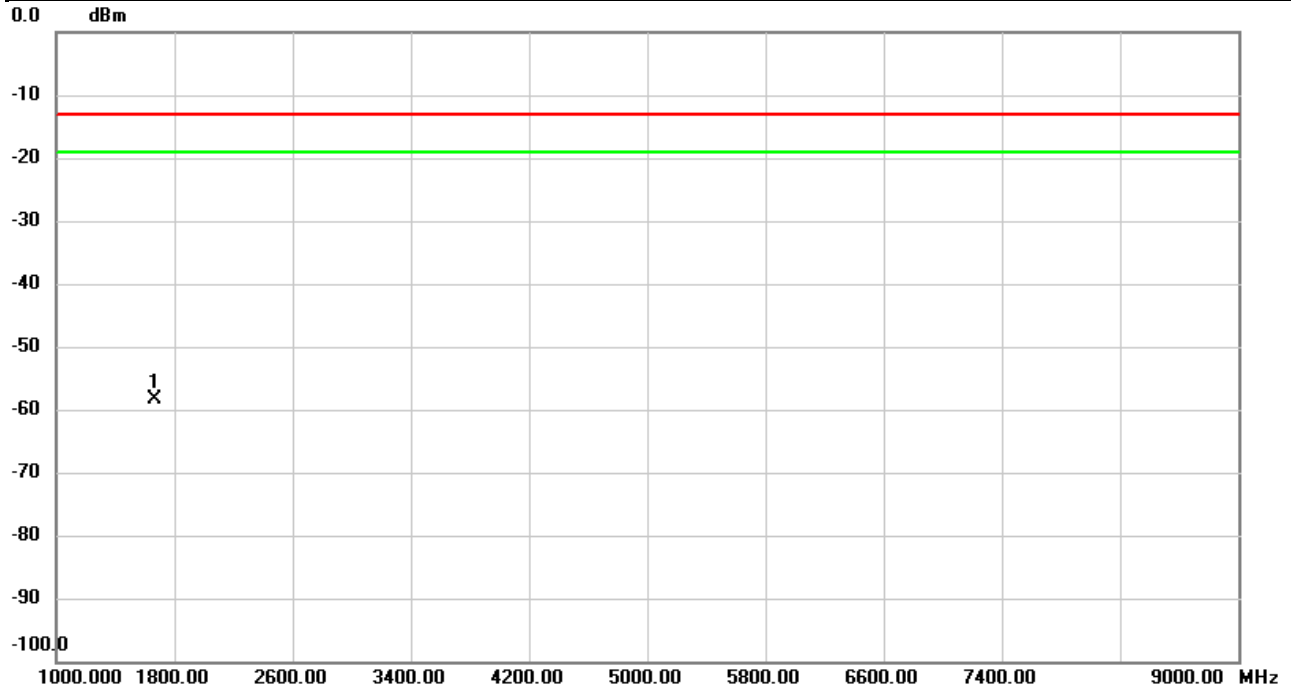
Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	Middle CH	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1662.000	-64.02	5.55	-58.47	-13.00	-45.47	peak	

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

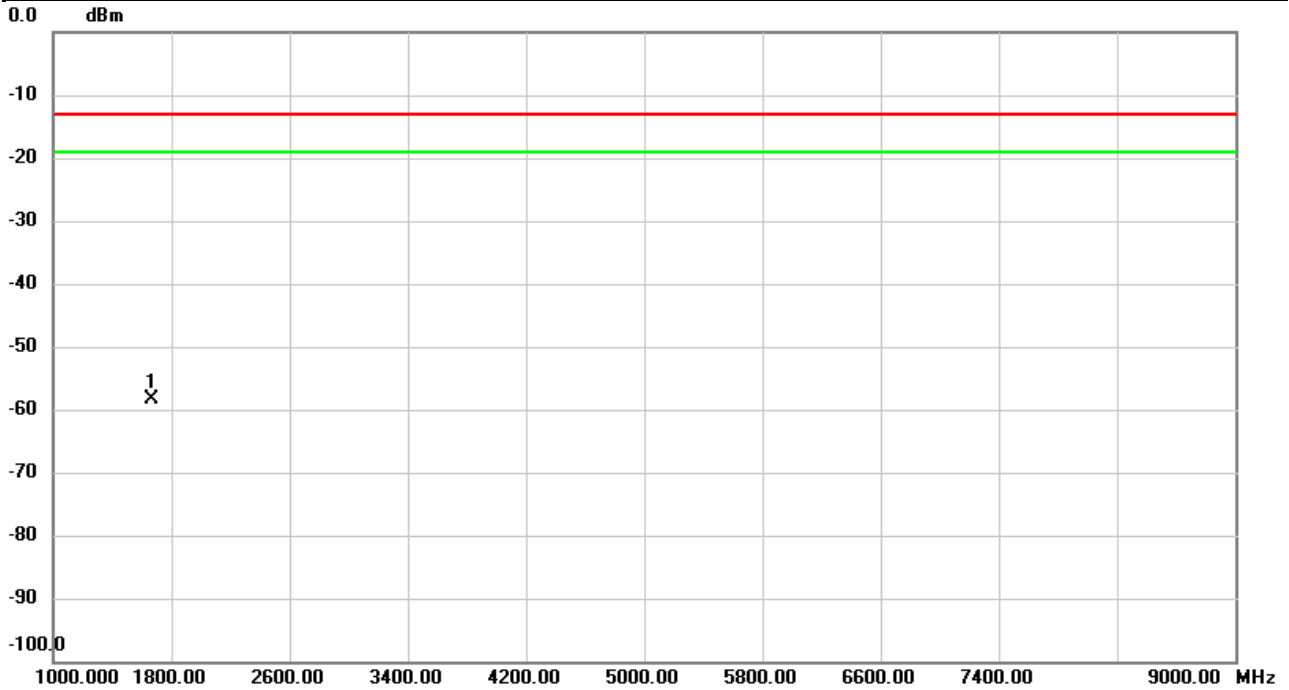
Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	High CH	Polarization	Vertical
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1668.000	-63.89	5.64	-58.25	-13.00	-45.25	peak	

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

Test Mode	LTE Band CA_5B	Test Date	2023/12/1
Test Channel	High CH	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1668.000	-63.91	5.56	-58.35	-13.00	-45.35	peak	

REMARKS:

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

End of Test Report