

FCC Radio Test Report

FCC ID: XMR2020EM160RGL2

Report No. : BTL-FCCP-2-2311T077
Equipment : LTE-A Cat 16 M.2 Module
Model Name : EM160R-GL
Brand Name : Quectel
Applicant : Quectel Wireless Solutions Company Limited
Address : Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

Radio Function : WCDMA Band II & LTE Band 2, 25

FCC Rule Part(s) : FCC CFR Title 47, Part 24, Subpart E

Date of Receipt : 2023/12/5
Date of Test : 2023/12/21 ~ 2024/1/12
Issued Date : 2024/1/30

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-2-2311T077	R00	Original Report.	2024/1/30	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
2.1046 24.232(c)	Effective Isotropic Radiated Power	APPENDIX A	Pass	-----
2.1053 24.238(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: XMR2020EM160RGL2) to be incorporated to the host device (Model number: TP00157A), 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 Isotropic Radiated Power	23.2 °C, 45 %	AC 120V	Jerry Chuang
Radiated Spurious Emissions	Refer to data	AC 120V	Kevin Zhen

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	LTE-A Cat 16 M.2 Module			
Model Name	EM160R-GL			
Brand Name	Quectel			
Model Difference	N/A			
Power Source	Supplied from host system.			
Power Rating	3.1 ~4.1Vdc, typical 3.7Vdc			
Host device information				
Equipment	Notebook Computer			
Model Name	TP00157A			
Brand Name	Lenovo			
Model Difference	N/A			
Power Source	DC voltage supplied from External Power Supply. (Lenovo/ ADL135YSDC3A)			
Power Rating	I/P: 100-240V~ 2.5A 50-60Hz O/P: 20.0VDC 6.75A 135.0W / 19.95VDC 5.0A / 15.0VDC 3.0A / 9.0VDC 3.0A / 5.0VDC 3.0A 15.0W			
WIFI+BT Module	Intel® Wi-Fi 6E AX211 / AX211D2W			
WWAN Module	Quectel / EM160R-GL			
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)	
	WCDMA II	1850 ~ 1910	1930 ~ 1990	
	LTE 2	1850 ~ 1910	1930 ~ 1990	
	LTE 25	1850 ~ 1915	1930 ~ 1995	
Maximum EIRP	Band	BW (MHz)	Mode	Power (W)
	WCDMA II	-	-	0.329
	LTE 2/25	1.4	QPSK	0.352
			16QAM	0.356
			64QAM	0.229
	3	QPSK	0.357	
		16QAM	0.360	
		64QAM	0.233	
	5	QPSK	0.364	
		16QAM	0.366	
		64QAM	0.237	
	10	QPSK	0.368	
		16QAM	0.371	
		64QAM	0.240	
	15	QPSK	0.373	
		16QAM	0.376	
		64QAM	0.244	
20	QPSK	0.378		
	16QAM	0.379		
	64QAM	0.248		
Test Model	EM160R-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:

(3) Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	Luxshare-ICT	DC330023020	PIFA	I-PEX	1.96	WCDMA Band II
					1.90	LTE Band 2
Aux	Luxshare-ICT	DC330023030	PIFA	I-PEX	-	LTE Band 25 RX only

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	SPEEDWIRE	DC330023120	PIFA	I-PEX	0.06	WCDMA Band II
					0.61	LTE Band 2
Aux	SPEEDWIRE	DC330023130	PIFA	I-PEX	-	LTE Band 25 RX only

- (4) 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

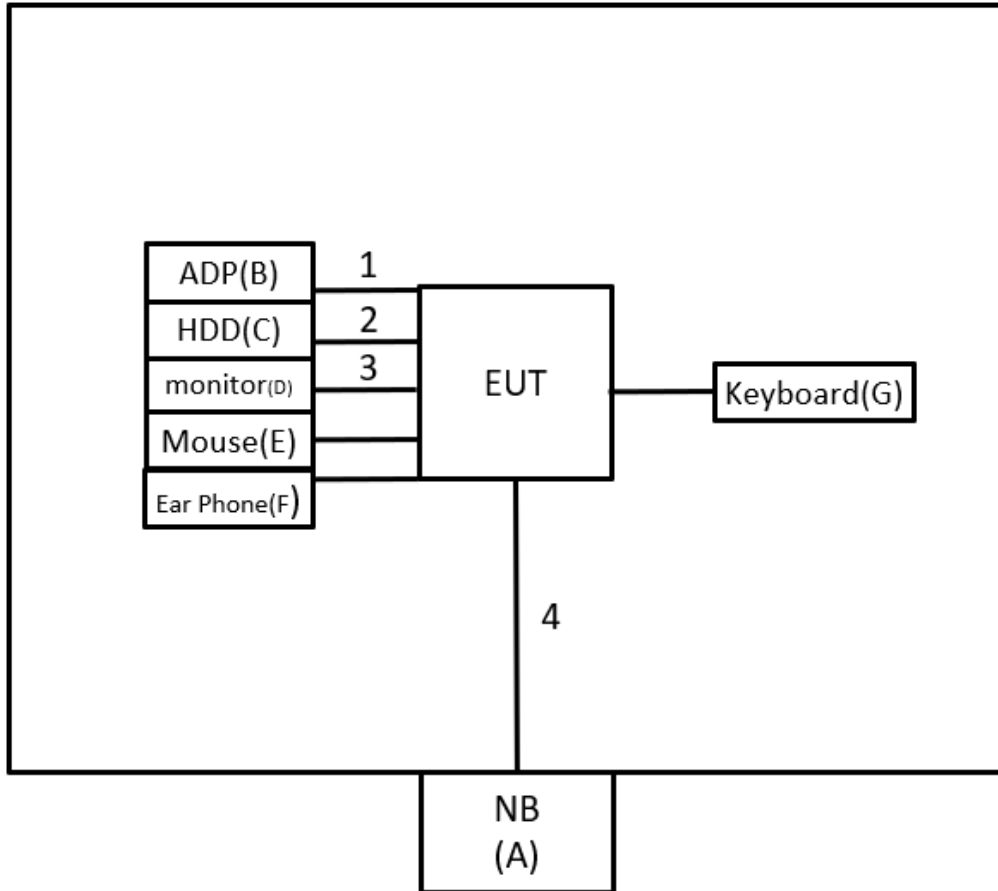
Test Items	Band	Test Mode	Note
Effective Isotropic Radiated Power	WCDMA Band II	Refer to APPENDIX A	-
	LTE Band 2/25		
Radiated Spurious Emissions (Below 1G)	WCDMA Band II	TX Mode (CH 9538)	-
	LTE Band 2	TX Mode (CH 19150)	-
	LTE Band 25	TX Mode (CH 26590)	-
Radiated Spurious Emissions (Above 1G)	WCDMA Band II	TX Mode (CH 9262/9400/9538)	-
	LTE Band 2	TX Mode (CH 18700/18925/19150)	-
	LTE Band 25	TX Mode (CH 26140/26365/26590)	-
Radiated Spurious Emissions (Above 18G)	WCDMA Band II	TX Mode (CH 9538)	-
	LTE Band 2	TX Mode (CH 19150)	-
	LTE Band 25	TX Mode (CH 26590)	-

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 and 64QAM are evaluated, but only the worst case (QPSK) is recorded.
- (3) LTE Band 25 (1850 ~ 1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 ~ 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.

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	ADL135YSDC3 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 ISOTROPICAL RADIATED POWER MEASUREMENT

3.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

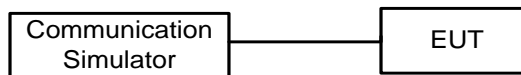
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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

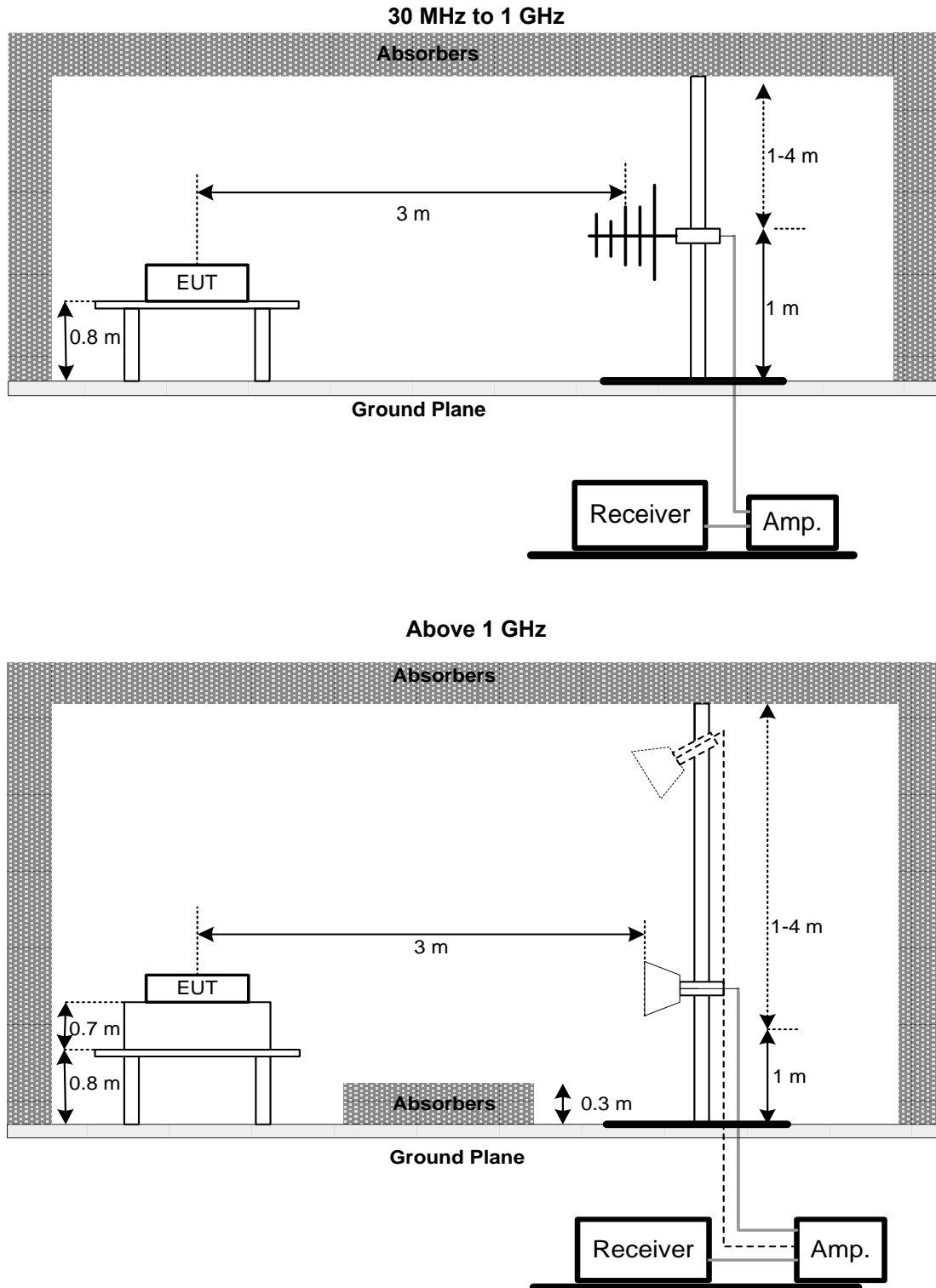
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. 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 power can be calculated form EIRP power by subtracting the gain of dipole,
ERP power = EIRP power - 2.15 dBi.
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz / 3 MHz.

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

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	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A
15	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2023/7/4	2024/7/3
16	Radio Communication Test Station	ANRITSU	MT8821C	6262044728	2023/11/22	2024/11/21

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-2311T077-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2311T077-1 (APPENDIX-EUT PHOTOS).

APPENDIX A EFFECTIVE ISOTROPIC RADIATED POWER

WCDMA Band II Power:

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	EIRP power (dBm)	EIRP power (W)
WCDMA Band II	Rel 99	9262/9662	1852.4	23.21	25.17	0.329
		9400/9800	1880.0	23.11	25.07	0.321
		9538/9938	1907.6	22.95	24.91	0.310

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	EIRP power (dBm)	EIRP power (W)
HSDPA II	1	9262/9662	1852.4	22.19	24.15	0.260
		9400/9800	1880.0	22.11	24.07	0.255
		9538/9938	1907.6	22.03	23.99	0.251
	2	9262/9662	1852.4	22.17	24.13	0.259
		9400/9800	1880.0	22.10	24.06	0.255
		9538/9938	1907.6	22.01	23.97	0.249
	3	9262/9662	1852.4	21.67	23.63	0.231
		9400/9800	1880.0	21.60	23.56	0.227
		9538/9938	1907.6	21.48	23.44	0.221
	4	9262/9662	1852.4	21.67	23.63	0.231
		9400/9800	1880.0	21.59	23.55	0.226
		9538/9938	1907.6	21.49	23.45	0.221

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	EIRP power (dBm)	EIRP power (W)
HSUPA II	1	9262/9662	1852.4	21.88	23.84	0.242
		9400/9800	1880.0	21.82	23.78	0.239
		9538/9938	1907.6	21.79	23.75	0.237
	2	9262/9662	1852.4	19.85	21.81	0.152
		9400/9800	1880.0	19.81	21.77	0.150
		9538/9938	1907.6	19.74	21.70	0.148
	3	9262/9662	1852.4	20.89	22.85	0.193
		9400/9800	1880.0	20.83	22.79	0.190
		9538/9938	1907.6	20.73	22.69	0.186
	4	9262/9662	1852.4	19.88	21.84	0.153
		9400/9800	1880.0	19.84	21.80	0.151
		9538/9938	1907.6	19.74	21.70	0.148
	5	9262/9662	1852.4	21.89	23.85	0.243
		9400/9800	1880.0	21.83	23.79	0.239
		9538/9938	1907.6	21.75	23.71	0.235

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 2/25 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
2/25	1.4	26047	1850.7	QPSK	1	0	0	23.06	25.02	0.318
					1	2	0	22.92	24.88	0.308
					1	5	0	22.83	24.79	0.301
					6	0	1	22.85	24.81	0.303
				16QAM	1	0	1	22.79	24.75	0.299
					1	2	1	22.59	24.55	0.285
					1	5	1	22.60	24.56	0.286
					6	0	2	21.26	23.22	0.210
				64QAM	1	0	1	21.63	23.59	0.229
					1	2	1	21.52	23.48	0.223
					1	5	1	21.50	23.46	0.222
					6	0	2	20.33	22.29	0.169
		26365	1882.5	QPSK	1	0	0	23.51	25.47	0.352
					1	2	0	23.35	25.31	0.340
					1	5	0	23.24	25.20	0.331
					6	0	1	23.23	25.19	0.330
				16QAM	1	0	1	22.62	24.58	0.287
					1	2	1	22.57	24.53	0.284
					1	5	1	22.46	24.42	0.277
					6	0	2	21.20	23.16	0.207
				64QAM	1	0	1	21.56	23.52	0.225
					1	2	1	21.51	23.47	0.222
					1	5	1	21.37	23.33	0.215
					6	0	2	21.15	23.11	0.205
		26683	1914.3	QPSK	1	0	0	23.42	25.38	0.345
					1	2	0	23.26	25.22	0.333
					1	5	0	23.14	25.10	0.324
					6	0	1	23.14	25.10	0.324
				16QAM	1	0	1	23.56	25.52	0.356
					1	2	1	23.45	25.41	0.348
					1	5	1	23.33	25.29	0.338
					6	0	2	22.02	23.98	0.250
				64QAM	1	0	1	21.41	23.37	0.217
					1	2	1	21.22	23.18	0.208
					1	5	1	21.32	23.28	0.213
					6	0	2	20.45	22.41	0.174

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)	EIRP power (dBm)	EIRP power (W)
2/25	3	26055	1851.5	QPSK	1	0	0	23.14	25.10	0.324
					1	7	0	22.99	24.95	0.313
					1	14	0	22.91	24.87	0.307
					15	0	1	22.90	24.86	0.306
				16QAM	1	0	1	22.86	24.82	0.303
					1	7	1	22.66	24.62	0.290
					1	14	1	22.67	24.63	0.290
				64QAM	15	0	2	21.31	23.27	0.212
					1	0	1	21.71	23.67	0.233
					1	7	1	21.59	23.55	0.226
					1	14	1	21.54	23.50	0.224
					15	0	2	20.38	22.34	0.171
		26365	1882.5	QPSK	1	0	0	23.57	25.53	0.357
					1	7	0	23.41	25.37	0.344
					1	14	0	23.30	25.26	0.336
					15	0	1	23.31	25.27	0.337
				16QAM	1	0	1	22.68	24.64	0.291
					1	7	1	22.64	24.60	0.288
					1	14	1	22.53	24.49	0.281
				64QAM	15	0	2	21.26	23.22	0.210
					1	0	1	21.62	23.58	0.228
					1	7	1	21.55	23.51	0.224
					1	14	1	21.43	23.39	0.218
					15	0	2	21.21	23.17	0.207
		26675	1913.5	QPSK	1	0	0	23.48	25.44	0.350
					1	7	0	23.34	25.30	0.339
					1	14	0	23.20	25.16	0.328
					15	0	1	23.20	25.16	0.328
				16QAM	1	0	1	23.60	25.56	0.360
					1	7	1	23.53	25.49	0.354
					1	14	1	23.38	25.34	0.342
				64QAM	15	0	2	22.08	24.04	0.254
					1	0	1	21.45	23.41	0.219
					1	7	1	21.27	23.23	0.210
					1	14	1	21.38	23.34	0.216
					15	0	2	20.49	22.45	0.176

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
2/25	5	26065	1852.5	QPSK	1	0	0	23.19	25.15	0.327
					1	12	0	23.07	25.03	0.318
					1	24	0	22.98	24.94	0.312
					25	0	1	22.97	24.93	0.311
				16QAM	1	0	1	22.92	24.88	0.308
					1	12	1	22.74	24.70	0.295
					1	24	1	22.75	24.71	0.296
					25	0	2	21.37	23.33	0.215
				64QAM	1	0	1	21.78	23.74	0.237
					1	12	1	21.63	23.59	0.229
					1	24	1	21.62	23.58	0.228
					25	0	2	20.43	22.39	0.173
		26365	1882.5	QPSK	1	0	0	23.65	25.61	0.364
					1	12	0	23.47	25.43	0.349
					1	24	0	23.36	25.32	0.340
					25	0	1	23.36	25.32	0.340
				16QAM	1	0	1	22.75	24.71	0.296
					1	12	1	22.70	24.66	0.292
					1	24	1	22.60	24.56	0.286
					25	0	2	21.32	23.28	0.213
				64QAM	1	0	1	21.70	23.66	0.232
					1	12	1	21.59	23.55	0.226
					1	24	1	21.48	23.44	0.221
					25	0	2	21.26	23.22	0.210
		26665	1912.5	QPSK	1	0	0	23.53	25.49	0.354
					1	12	0	23.38	25.34	0.342
					1	24	0	23.25	25.21	0.332
					25	0	1	23.26	25.22	0.333
				16QAM	1	0	1	23.67	25.63	0.366
					1	12	1	23.61	25.57	0.361
					1	24	1	23.42	25.38	0.345
					25	0	2	22.14	24.10	0.257
				64QAM	1	0	1	21.50	23.46	0.222
					1	12	1	21.34	23.30	0.214
					1	24	1	21.45	23.41	0.219
					25	0	2	20.54	22.50	0.178

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)	EIRP power (dBm)	EIRP power (W)
2/25	10	26090	1855.0	QPSK	1	0	0	23.24	25.20	0.331
					1	24	0	23.14	25.10	0.324
					1	49	0	23.05	25.01	0.317
					50	0	1	23.03	24.99	0.316
				16QAM	1	0	1	22.98	24.94	0.312
					1	24	1	22.80	24.76	0.299
					1	49	1	22.80	24.76	0.299
					50	0	2	21.44	23.40	0.219
				64QAM	1	0	1	21.85	23.81	0.240
					1	24	1	21.69	23.65	0.232
					1	49	1	21.67	23.63	0.231
					50	0	2	20.51	22.47	0.177
		26365	1882.5	QPSK	1	0	0	23.70	25.66	0.368
					1	24	0	23.51	25.47	0.352
					1	49	0	23.43	25.39	0.346
					50	0	1	23.42	25.38	0.345
				16QAM	1	0	1	22.83	24.79	0.301
					1	24	1	22.74	24.70	0.295
					1	49	1	22.67	24.63	0.290
					50	0	2	21.39	23.35	0.216
				64QAM	1	0	1	21.75	23.71	0.235
					1	24	1	21.67	23.63	0.231
					1	49	1	21.55	23.51	0.224
					50	0	2	21.33	23.29	0.213
		26640	1910.0	QPSK	1	0	0	23.59	25.55	0.359
					1	24	0	23.43	25.39	0.346
					1	49	0	23.32	25.28	0.337
					50	0	1	23.33	25.29	0.338
				16QAM	1	0	1	23.73	25.69	0.371
					1	24	1	23.69	25.65	0.367
					1	49	1	23.47	25.43	0.349
					50	0	2	22.22	24.18	0.262
				64QAM	1	0	1	21.55	23.51	0.224
					1	24	1	21.41	23.37	0.217
					1	49	1	21.52	23.48	0.223
					50	0	2	20.59	22.55	0.180

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)	EIRP power (dBm)	EIRP power (W)
2/25	15	26115	1857.5	QPSK	1	0	0	23.30	25.26	0.336
					1	37	0	23.20	25.16	0.328
					1	74	0	23.12	25.08	0.322
					75	0	1	23.09	25.05	0.320
				16QAM	1	0	1	23.03	24.99	0.316
					1	37	1	22.88	24.84	0.305
					1	74	1	22.86	24.82	0.303
					75	0	2	21.50	23.46	0.222
				64QAM	1	0	1	21.92	23.88	0.244
					1	37	1	21.76	23.72	0.236
					1	74	1	21.75	23.71	0.235
					75	0	2	20.57	22.53	0.179
		26365	1882.5	QPSK	1	0	0	23.76	25.72	0.373
					1	37	0	23.58	25.54	0.358
					1	74	0	23.50	25.46	0.352
					75	0	1	23.49	25.45	0.351
				16QAM	1	0	1	22.88	24.84	0.305
					1	37	1	22.80	24.76	0.299
					1	74	1	22.73	24.69	0.294
					75	0	2	21.46	23.42	0.220
				64QAM	1	0	1	21.80	23.76	0.238
					1	37	1	21.72	23.68	0.233
					1	74	1	21.61	23.57	0.228
					75	0	2	21.38	23.34	0.216
		26615	1907.5	QPSK	1	0	0	23.65	25.61	0.364
					1	37	0	23.51	25.47	0.352
					1	74	0	23.38	25.34	0.342
					75	0	1	23.38	25.34	0.342
				16QAM	1	0	1	23.79	25.75	0.376
					1	37	1	23.74	25.70	0.372
					1	74	1	23.52	25.48	0.353
					75	0	2	22.30	24.26	0.267
				64QAM	1	0	1	21.63	23.59	0.229
					1	37	1	21.48	23.44	0.221
					1	74	1	21.56	23.52	0.225
					75	0	2	20.65	22.61	0.182

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)	EIRP power (dBm)	EIRP power (W)
2/25	20	26140	1860.0	QPSK	1	0	0	23.34	25.30	0.339
					1	49	0	23.26	25.22	0.333
					1	99	0	23.20	25.16	0.328
					100	0	1	23.13	25.09	0.323
				16QAM	1	0	1	23.09	25.05	0.320
					1	49	1	22.95	24.91	0.310
					1	99	1	22.93	24.89	0.308
					100	0	2	21.57	23.53	0.225
				64QAM	1	0	1	21.98	23.94	0.248
					1	49	1	21.82	23.78	0.239
					1	99	1	21.79	23.75	0.237
					100	0	2	20.63	22.59	0.182
		26365	1882.5	QPSK	1	0	0	23.82	25.78	0.378
					1	49	0	23.65	25.61	0.364
					1	99	0	23.56	25.52	0.356
					100	0	1	23.56	25.52	0.356
				16QAM	1	0	1	22.92	24.88	0.308
					1	49	1	22.85	24.81	0.303
					1	99	1	22.79	24.75	0.299
					100	0	2	21.51	23.47	0.222
				64QAM	1	0	1	21.86	23.82	0.241
					1	49	1	21.79	23.75	0.237
					1	99	1	21.66	23.62	0.230
					100	0	2	21.44	23.40	0.219
		26590	1905.0	QPSK	1	0	0	23.72	25.68	0.370
					1	49	0	23.55	25.51	0.356
					1	99	0	23.43	25.39	0.346
					100	0	1	23.45	25.41	0.348
				16QAM	1	0	1	23.83	25.79	0.379
					1	49	1	23.78	25.74	0.375
					1	99	1	23.58	25.54	0.358
					100	0	2	22.37	24.33	0.271
				64QAM	1	0	1	21.70	23.66	0.232
					1	49	1	21.55	23.51	0.224
					1	99	1	21.62	23.58	0.228
					100	0	2	20.73	22.69	0.186

NOTE:

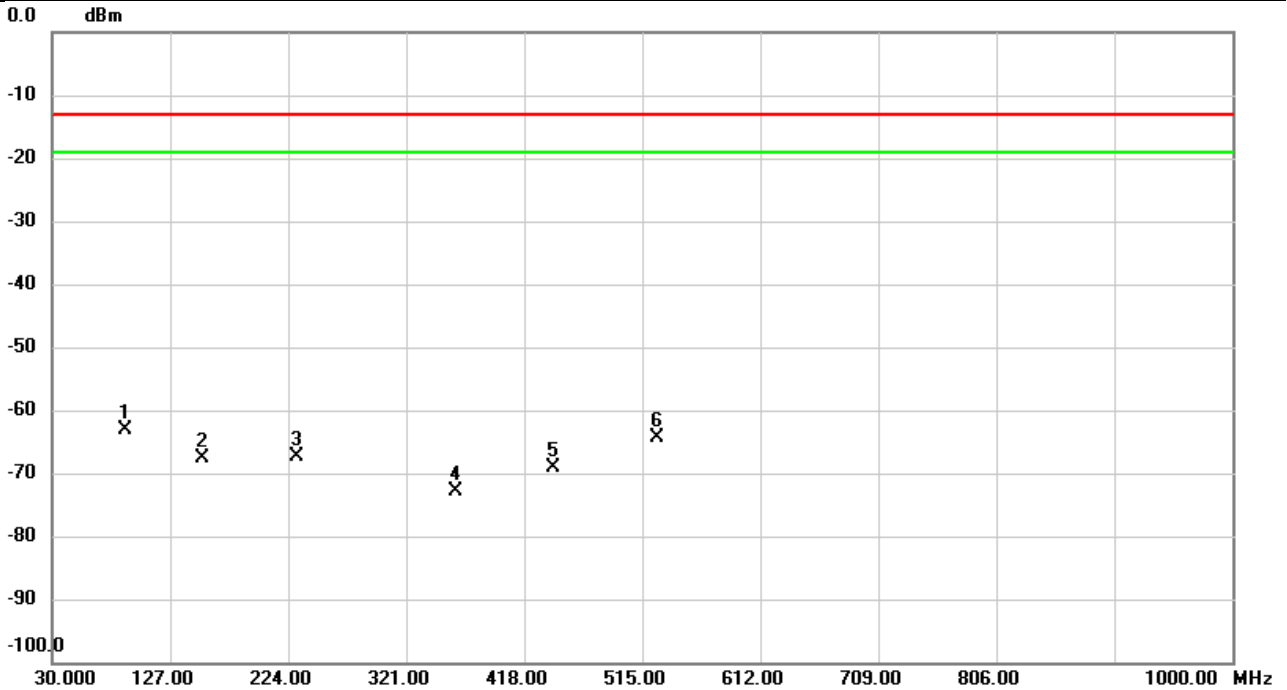
(1) EIRP = Average power + Antenna gain.

(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 II	Test Date	2023/12/26
Test Channel	CH9538	Polarization	Vertical
Temp	21°C	Hum.	59%

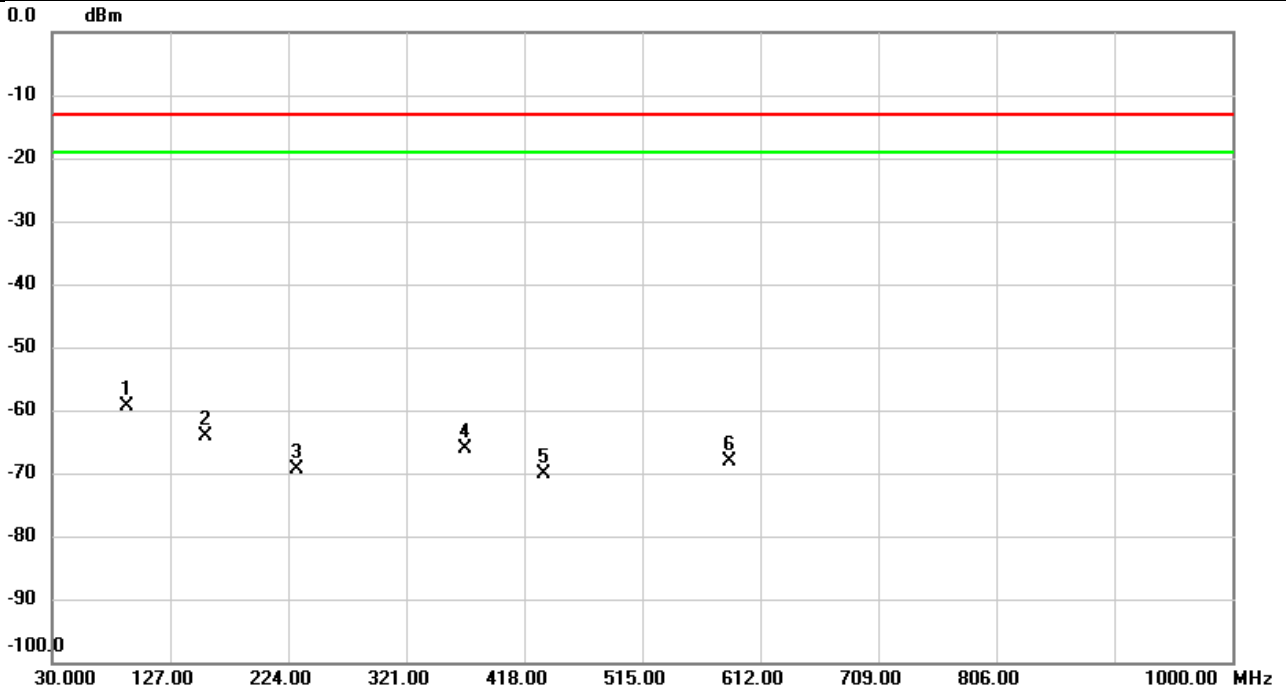


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	90.7866	-59.72	-3.48	-63.20	-13.00	-50.20	peak	
2		153.5456	-67.28	-0.39	-67.67	-13.00	-54.67	peak	
3		230.9192	-66.69	-0.58	-67.27	-13.00	-54.27	peak	
4		361.7076	-72.43	-0.52	-72.95	-13.00	-59.95	peak	
5		442.2823	-69.79	0.64	-69.15	-13.00	-56.15	peak	
6		527.2542	-68.15	3.67	-64.48	-13.00	-51.48	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9538	Polarization	Horizontal
Temp	21°C	Hum.	59%

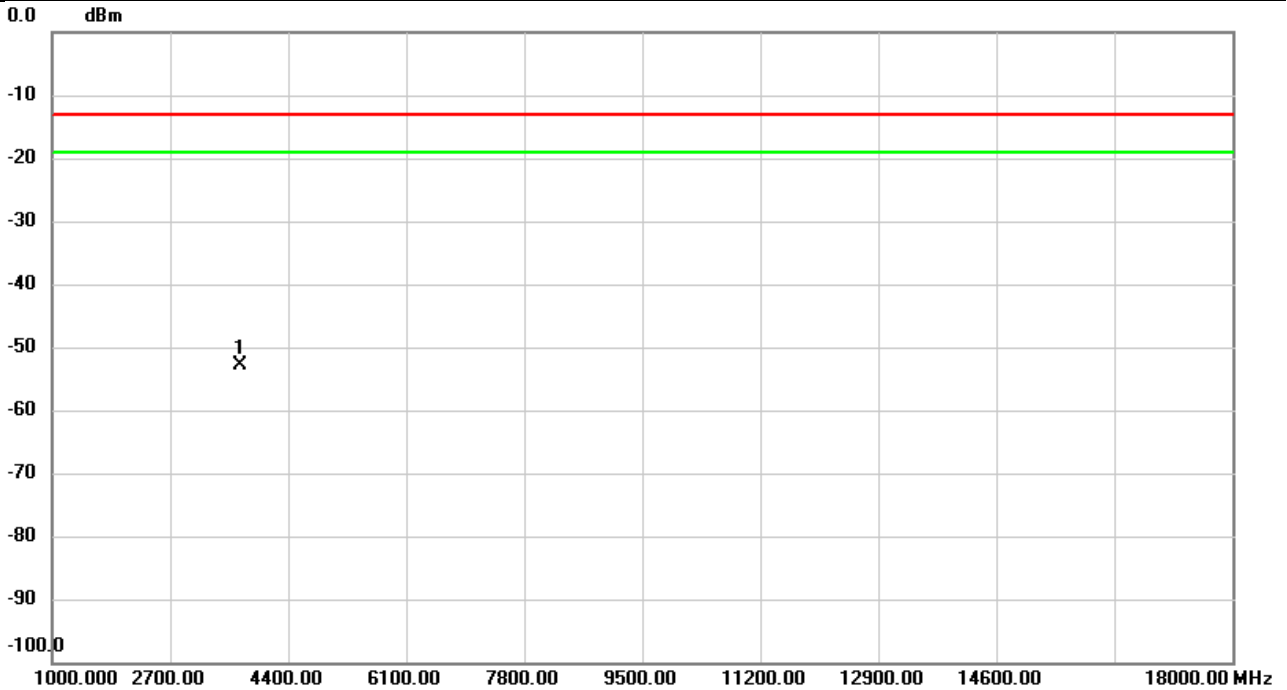


No.	Mk.	Freq. (MHz)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	Limit (dBm)	Over (dB)	Detector	Comment
1	*	91.2393	-53.14	-6.13	-59.27	-13.00	-46.27	peak	
2		155.7443	-60.30	-3.73	-64.03	-13.00	-51.03	peak	
3		230.6930	-63.60	-5.75	-69.35	-13.00	-56.35	peak	
4		368.9503	-65.70	-0.41	-66.11	-13.00	-53.11	peak	
5		433.6170	-70.14	0.00	-70.14	-13.00	-57.14	peak	
6		586.7476	-70.10	2.05	-68.05	-13.00	-55.05	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9262	Polarization	Vertical
Temp	21°C	Hum.	59%

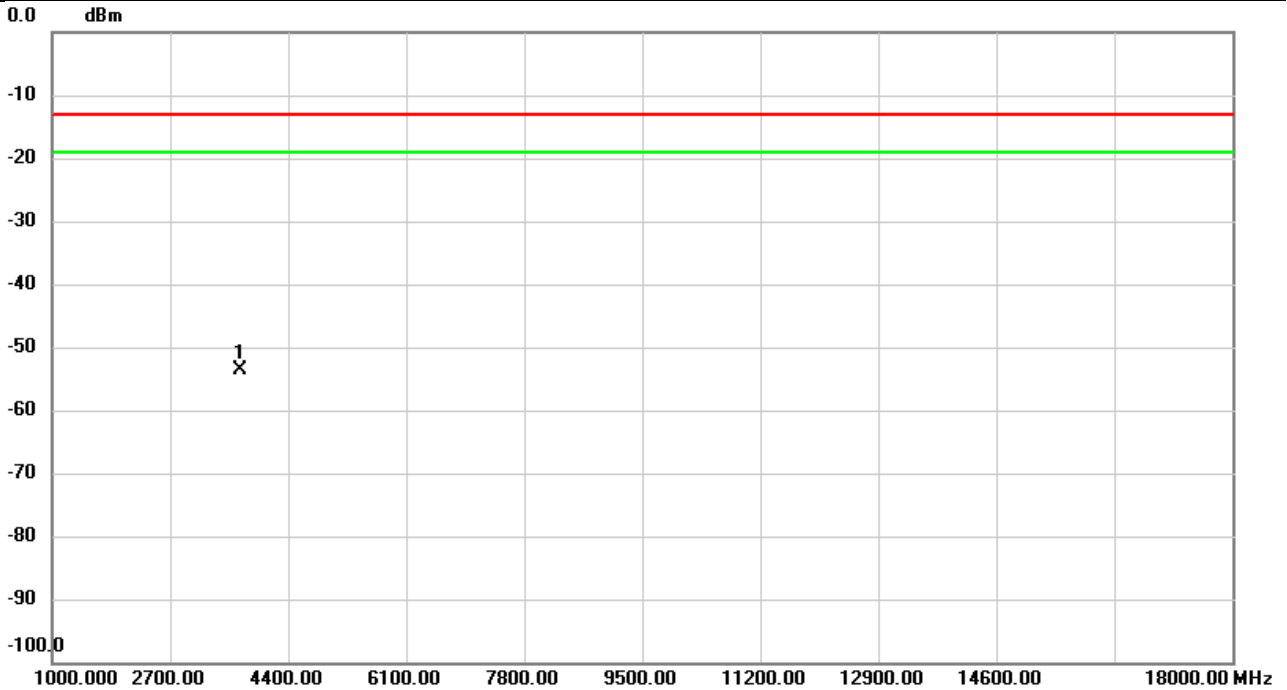


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3704.800	-64.38	11.59	-52.79	-13.00	-39.79	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9262	Polarization	Horizontal
Temp	21°C	Hum.	59%

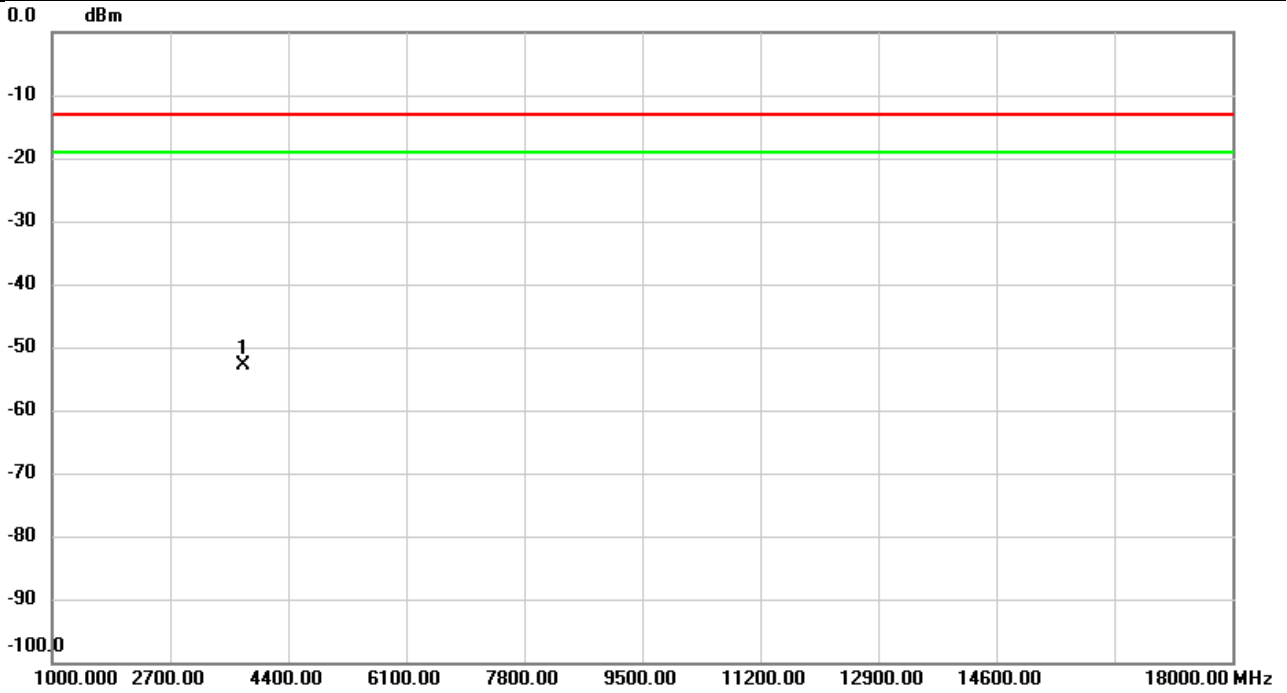


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3704.800	-64.93	11.22	-53.71	-13.00	-40.71	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9400	Polarization	Vertical
Temp	21°C	Hum.	59%

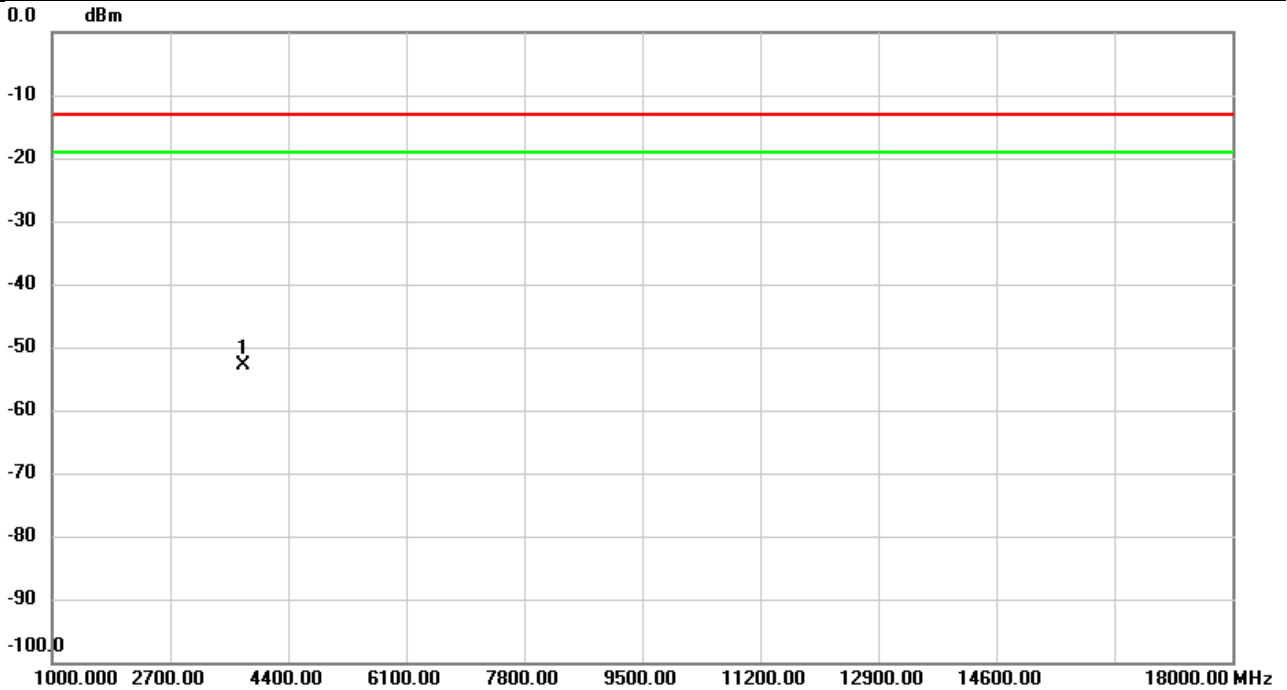


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3760.000	-64.26	11.44	-52.82	-13.00	-39.82	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9400	Polarization	Horizontal
Temp	21°C	Hum.	59%

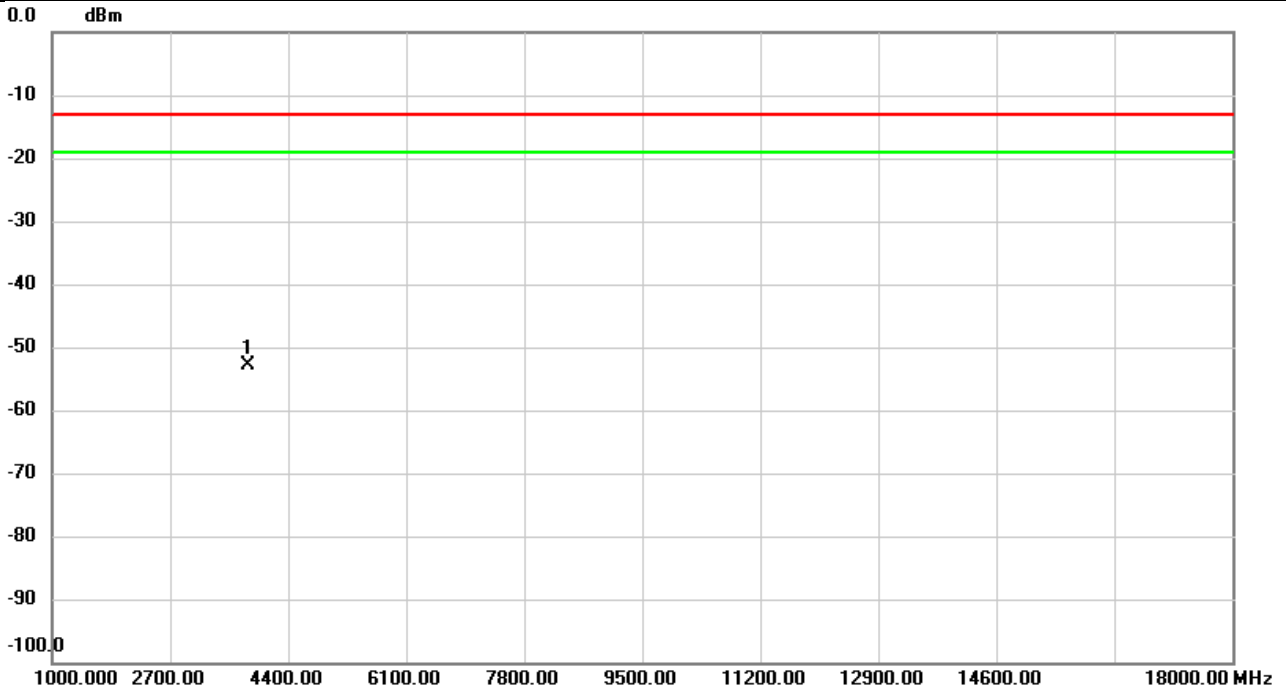


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3760.000	-64.14	11.31	-52.83	-13.00	-39.83	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9538	Polarization	Vertical
Temp	21°C	Hum.	59%

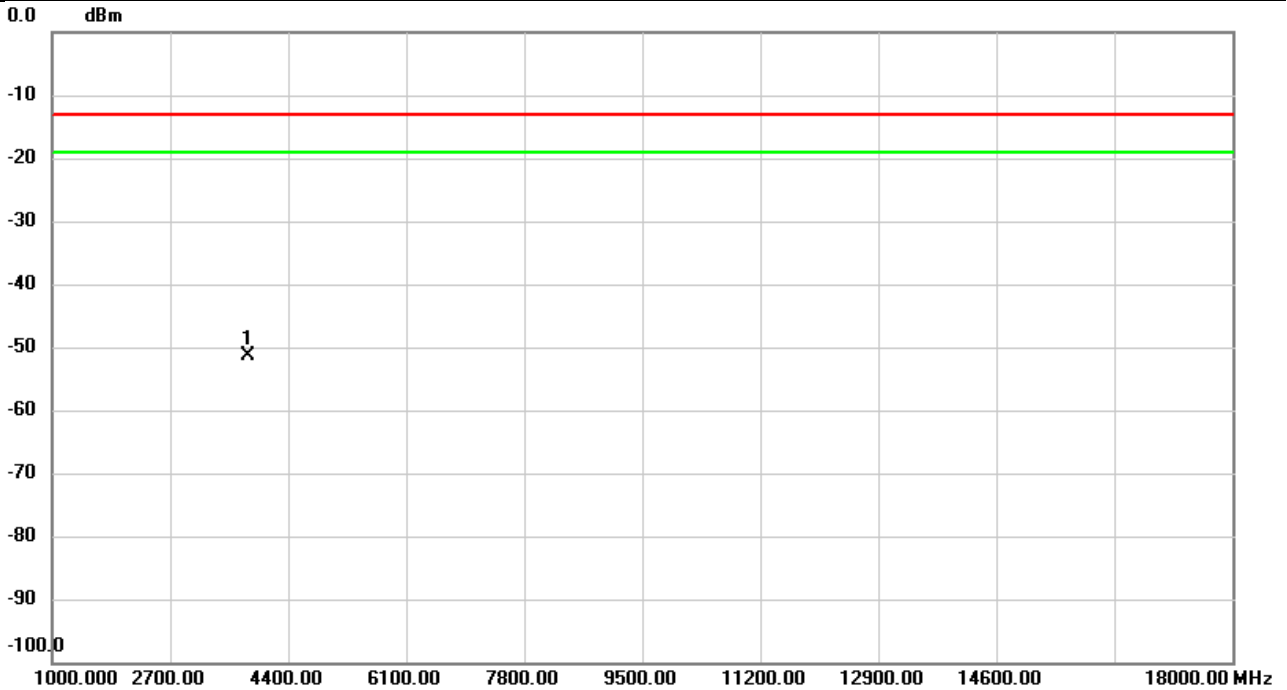


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3814.000	-64.41	11.66	-52.75	-13.00	-39.75	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/26
Test Channel	CH9538	Polarization	Horizontal
Temp	21°C	Hum.	59%

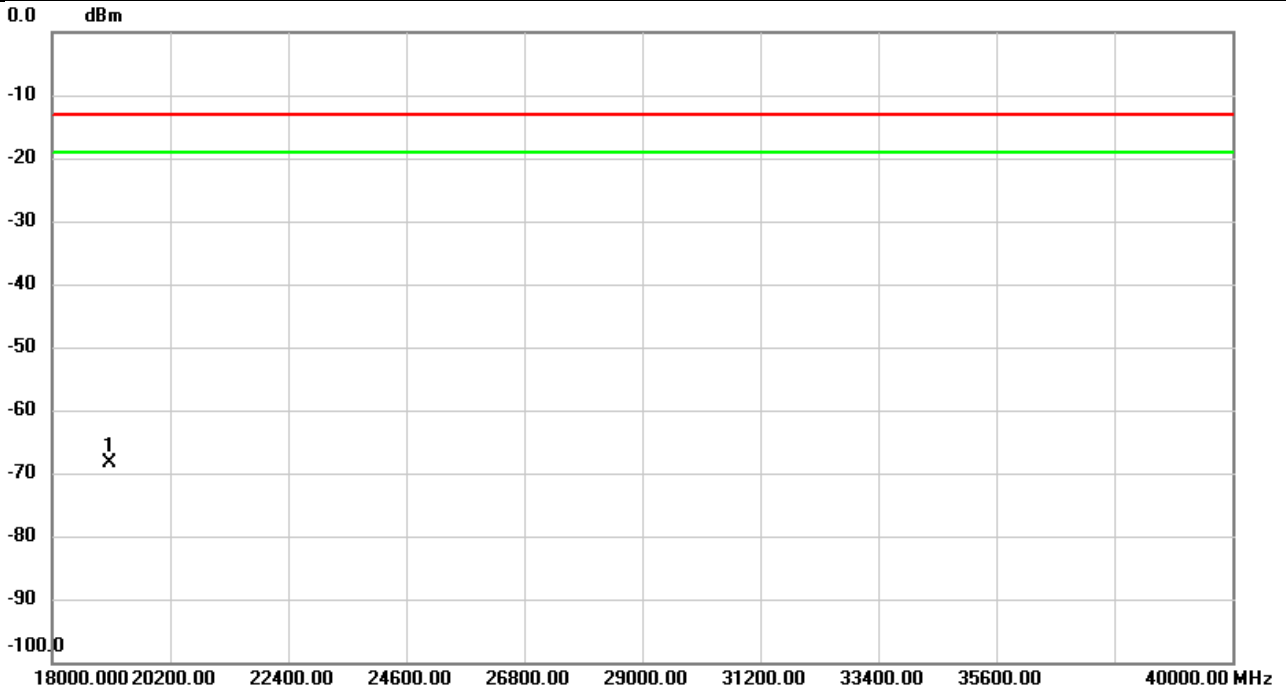


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3814.000	-63.17	11.71	-51.46	-13.00	-38.46	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/27
Test Channel	CH9538	Polarization	Vertical
Temp	23°C	Hum.	58%

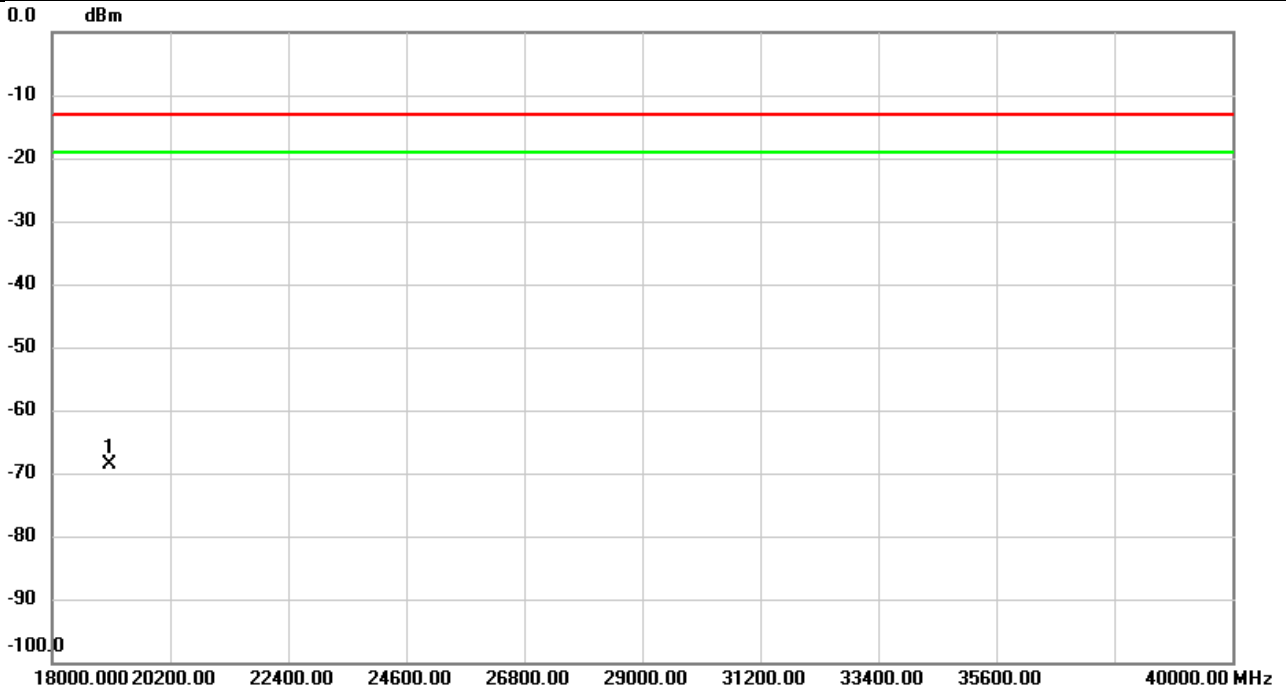


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	19070.00	-61.38	-7.01	-68.39	-13.00	-55.39	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2023/12/27
Test Channel	CH9538	Polarization	Horizontal
Temp	23°C	Hum.	58%

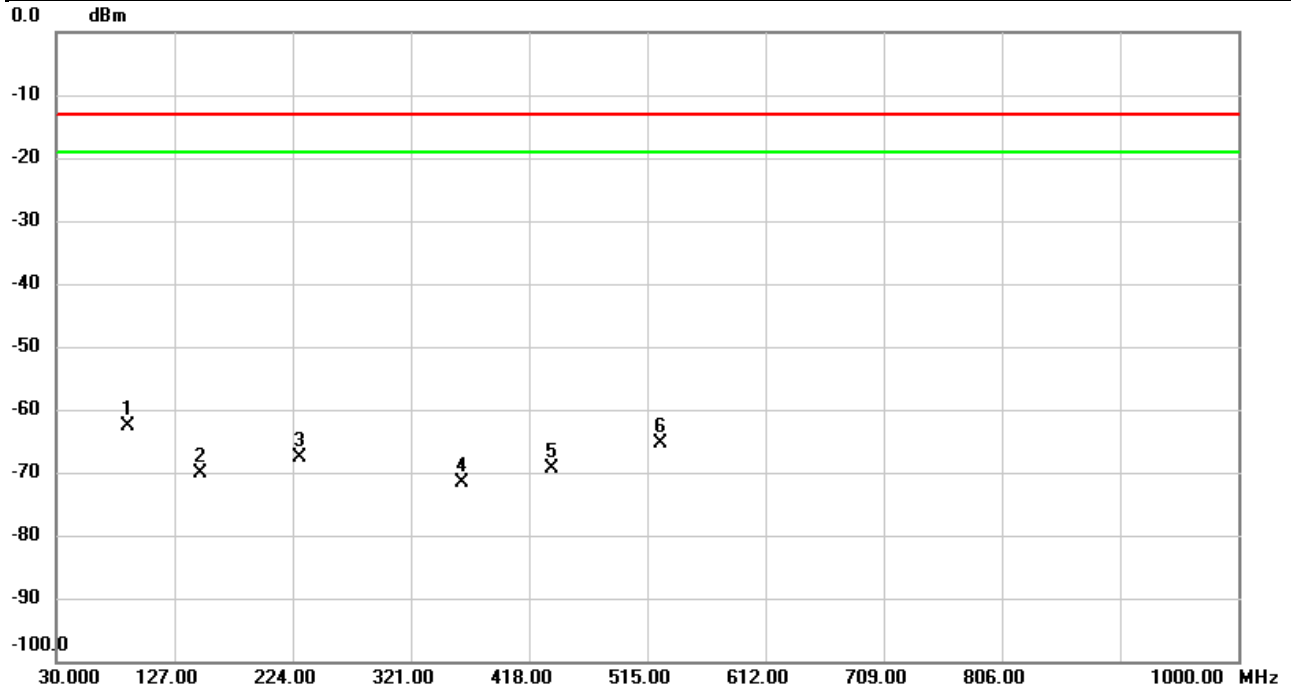


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	19070.00	-61.64	-7.01	-68.65	-13.00	-55.65	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/26
Test Channel	CH19150	Polarization	Vertical
Temp	21°C	Hum.	59%

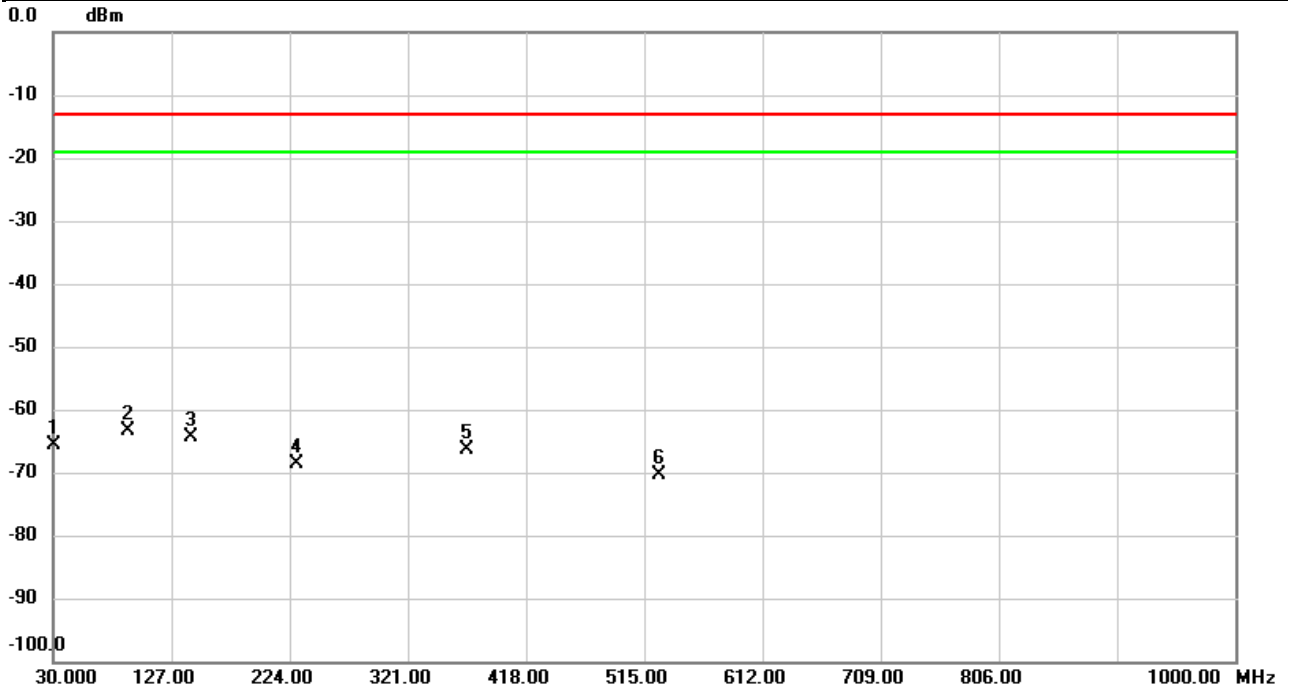


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	88.6203	-59.17	-3.49	-62.66	-13.00	-49.66	peak	
2		148.4370	-69.49	-0.69	-70.18	-13.00	-57.18	peak	
3		229.9170	-67.03	-0.63	-67.66	-13.00	-54.66	peak	
4		362.8070	-71.07	-0.51	-71.58	-13.00	-58.58	peak	
5		437.0120	-69.99	0.55	-69.44	-13.00	-56.44	peak	
6		525.8963	-68.88	3.59	-65.29	-13.00	-52.29	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/26
Test Channel	CH19150	Polarization	Horizontal
Temp	21°C	Hum.	59%

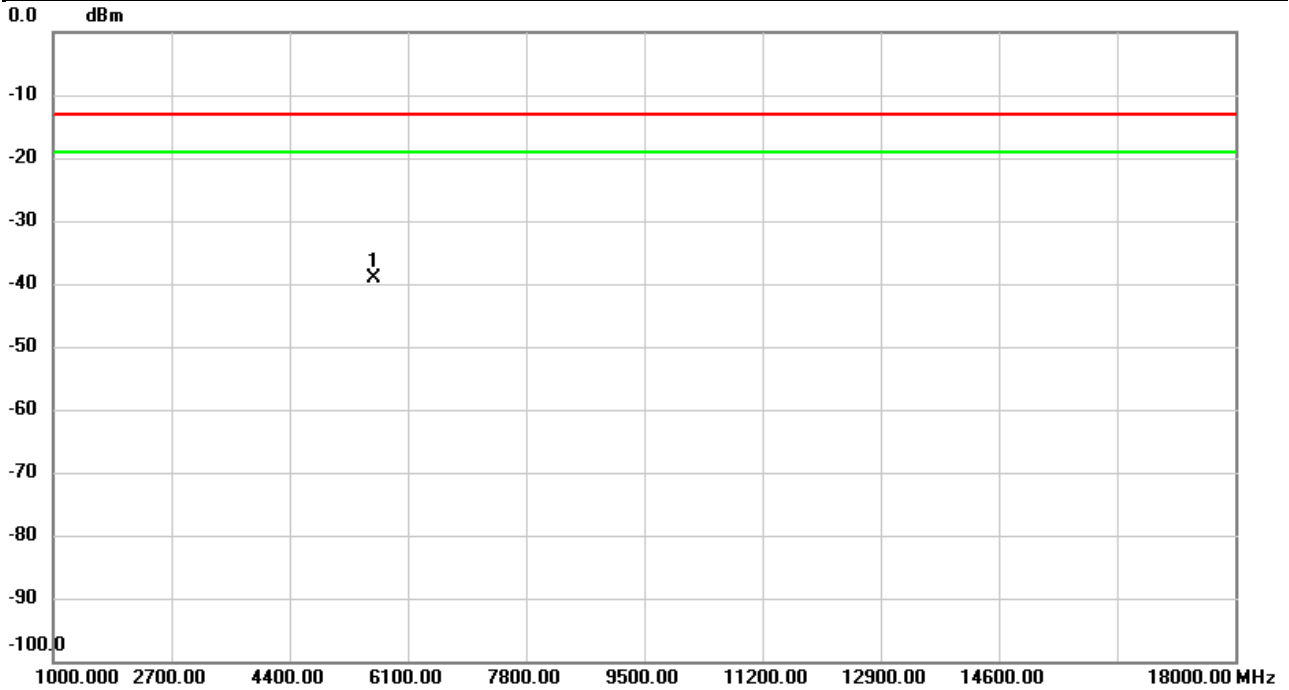


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		30.0000	-70.58	5.02	-65.56	-13.00	-52.56	peak	
2	*	91.9183	-57.32	-6.09	-63.41	-13.00	-50.41	peak	
3		143.5870	-61.04	-3.45	-64.49	-13.00	-51.49	peak	
4		229.8847	-62.87	-5.74	-68.61	-13.00	-55.61	peak	
5		369.2737	-65.86	-0.41	-66.27	-13.00	-53.27	peak	
6		526.9956	-71.43	1.07	-70.36	-13.00	-57.36	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH18700	Polarization	Vertical
Temp	22°C	Hum.	57%

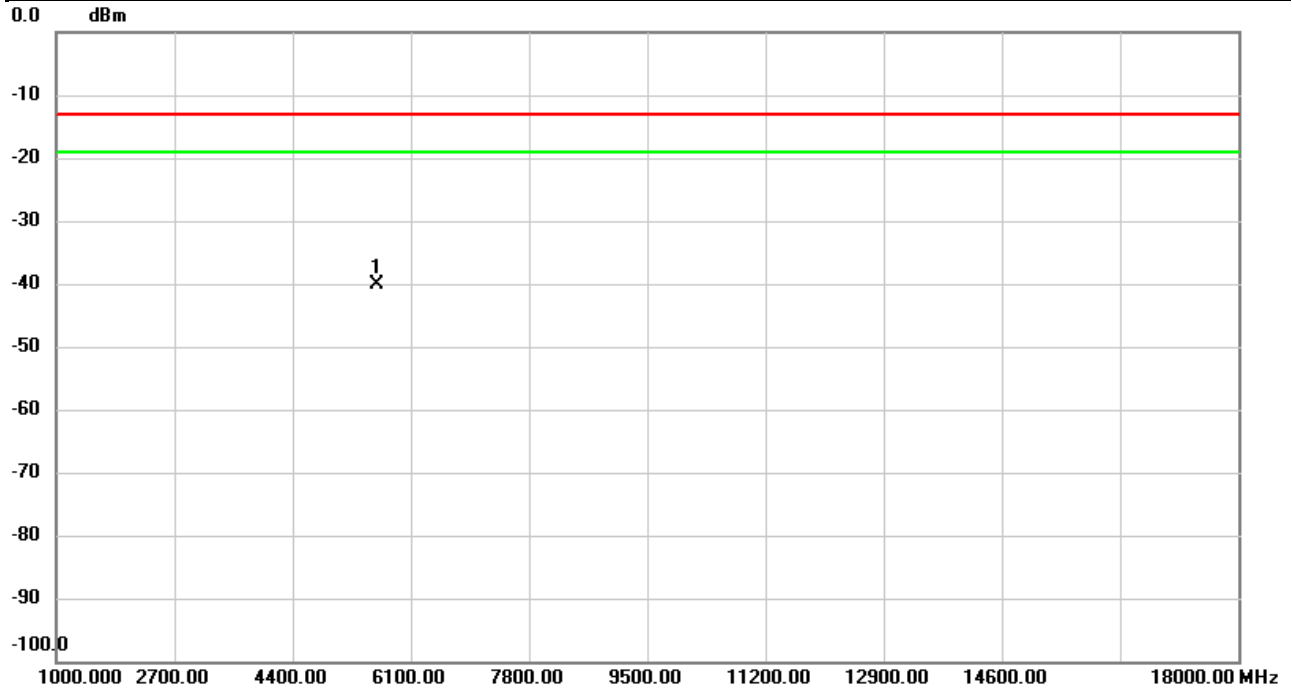


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5604.733	-54.32	15.12	-39.20	-13.00	-26.20	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH18700	Polarization	Horizontal
Temp	22°C	Hum.	57%

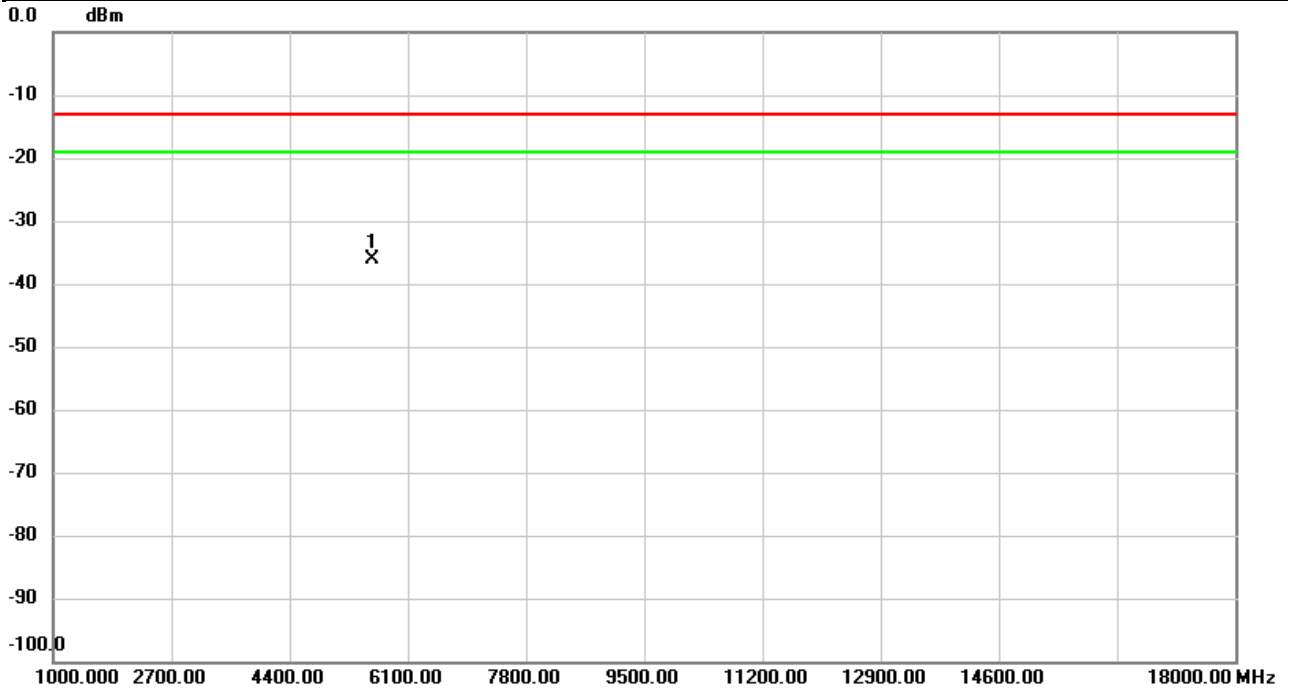


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5604.733	-55.04	14.93	-40.11	-13.00	-27.11	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH18925	Polarization	Vertical
Temp	22°C	Hum.	57%

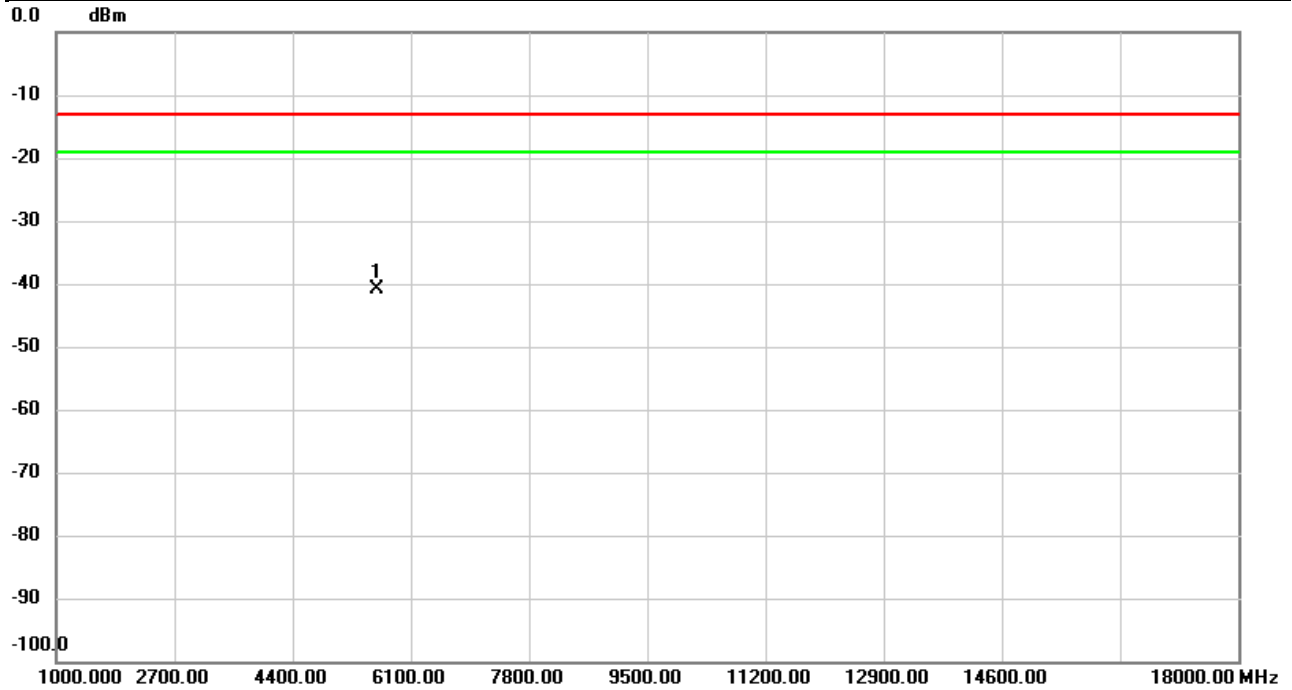


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	5591.133	-51.00	14.94	-36.06	-13.00	-23.06	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH18925	Polarization	Horizontal
Temp	22°C	Hum.	57%

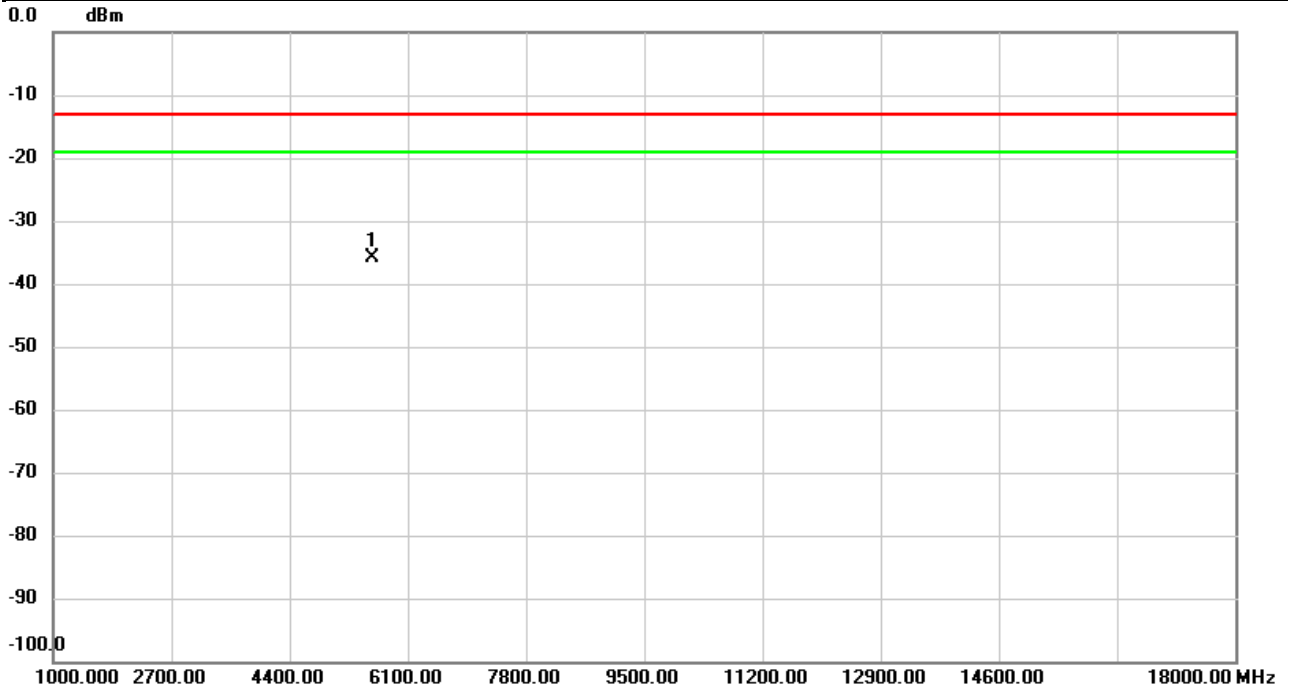


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5616.067	-55.71	14.80	-40.91	-13.00	-27.91	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH19150	Polarization	Vertical
Temp	22°C	Hum.	57%

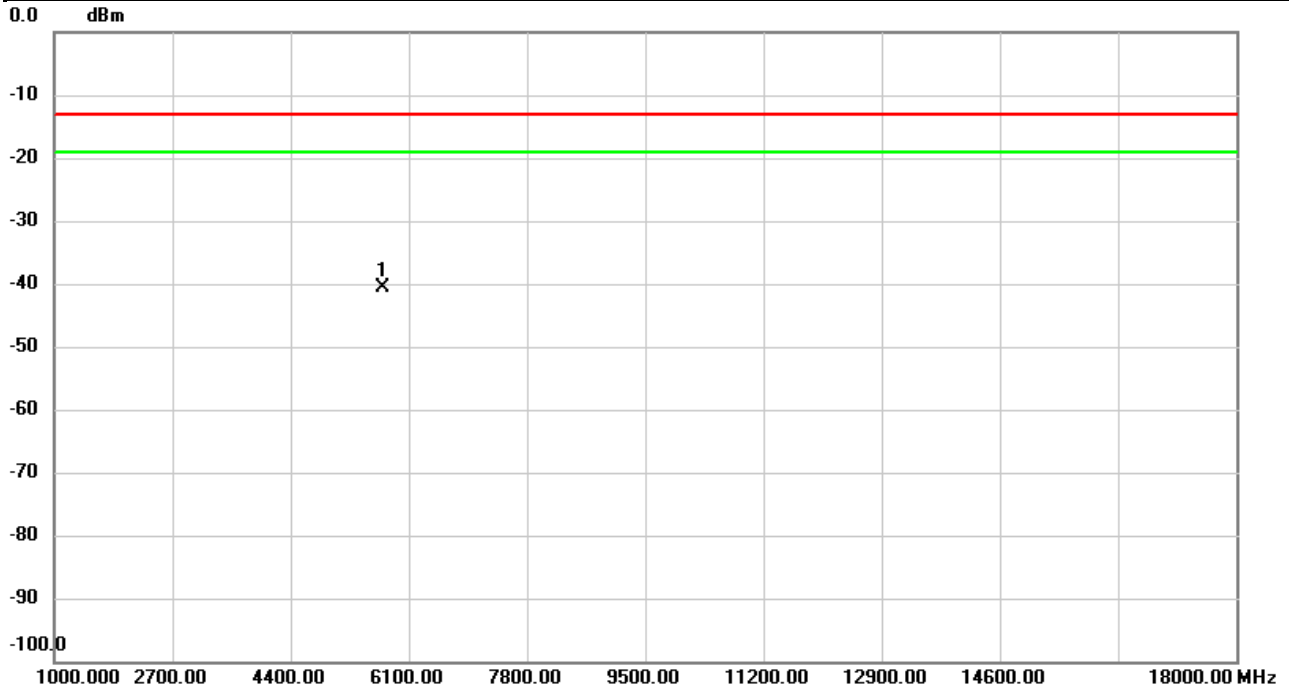


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5598.500	-50.93	15.13	-35.80	-13.00	-22.80	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/21
Test Channel	CH19150	Polarization	Horizontal
Temp	22°C	Hum.	57%

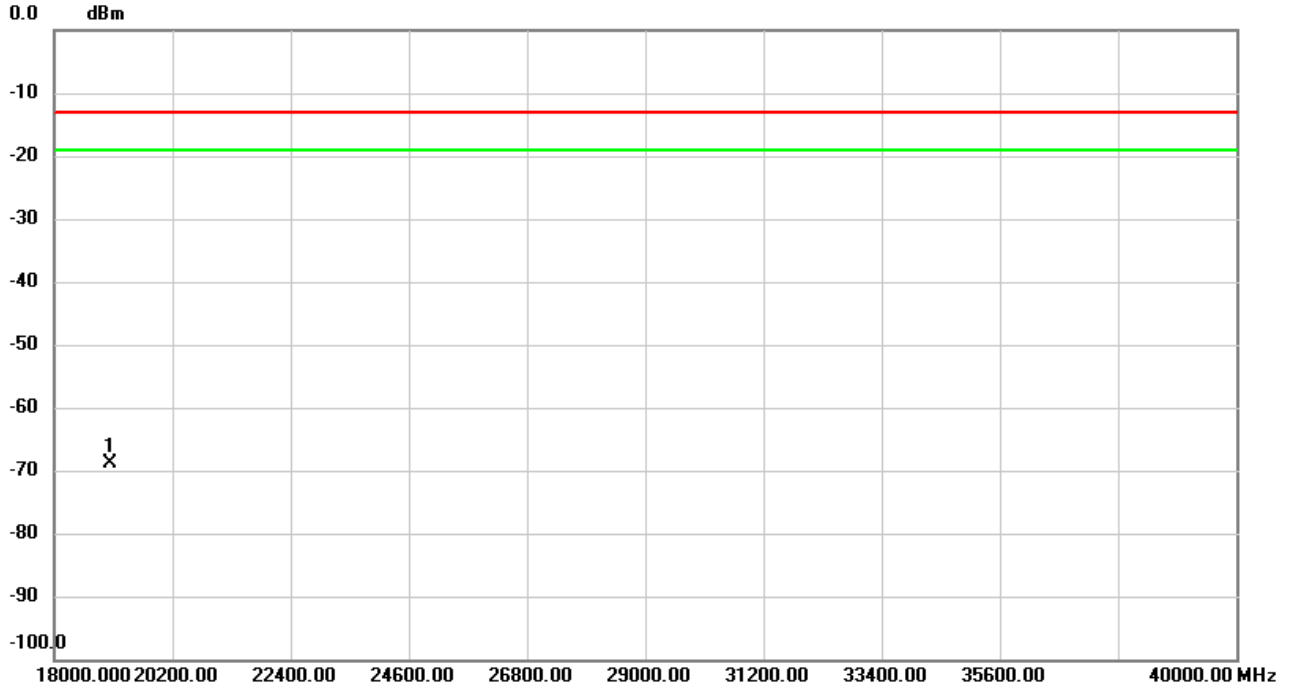


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5724.300	-55.45	14.71	-40.74	-13.00	-27.74	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/27
Test Channel	CH19150	Polarization	Horizontal
Temp	23°C	Hum.	58%

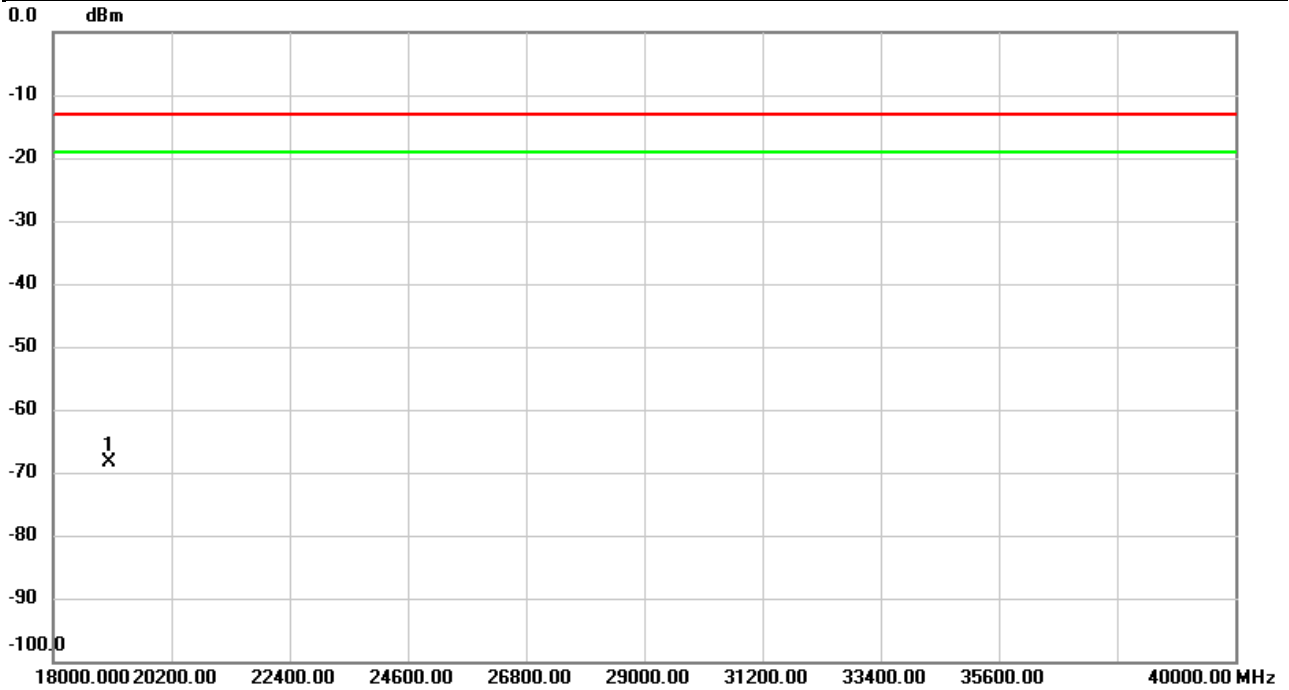


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	19050.00	-61.94	-6.98	-68.92	-13.00	-55.92	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2023/12/27
Test Channel	CH19150	Polarization	Horizontal
Temp	23°C	Hum.	58%

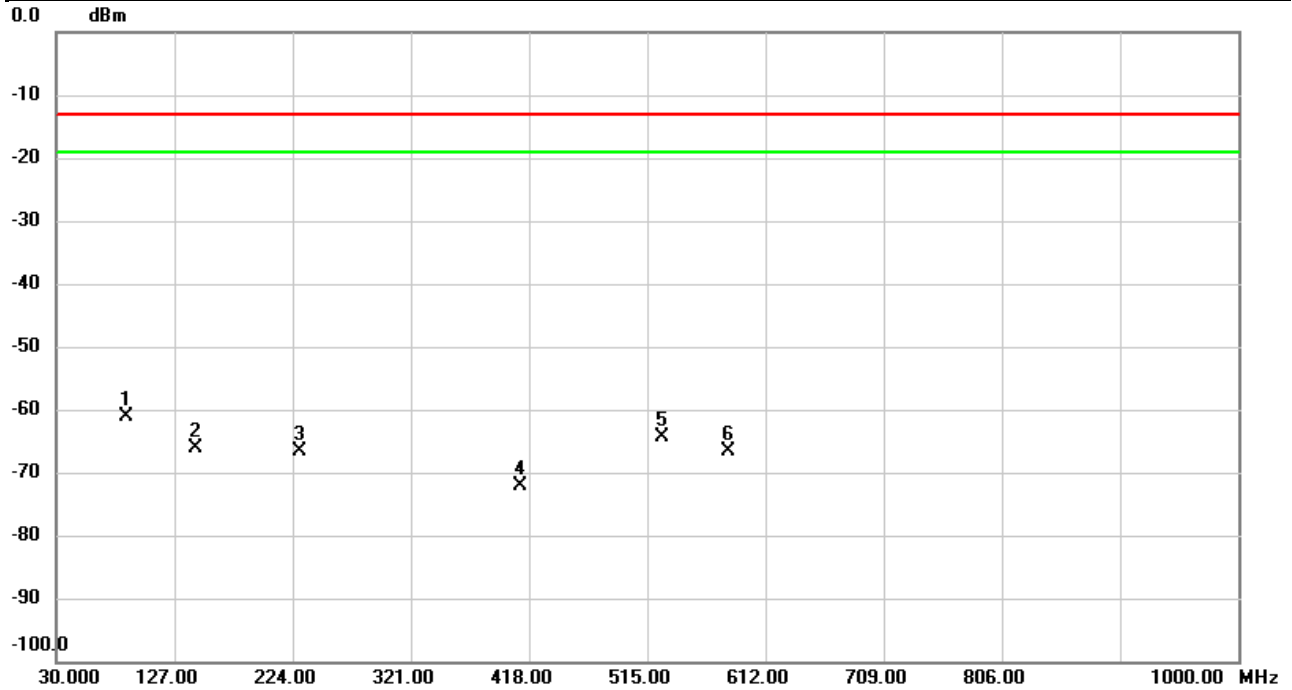


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	19050.00	-61.48	-6.98	-68.46	-13.00	-55.46	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/26
Test Channel	CH26590	Polarization	Vertical
Temp	21°C	Hum.	59%

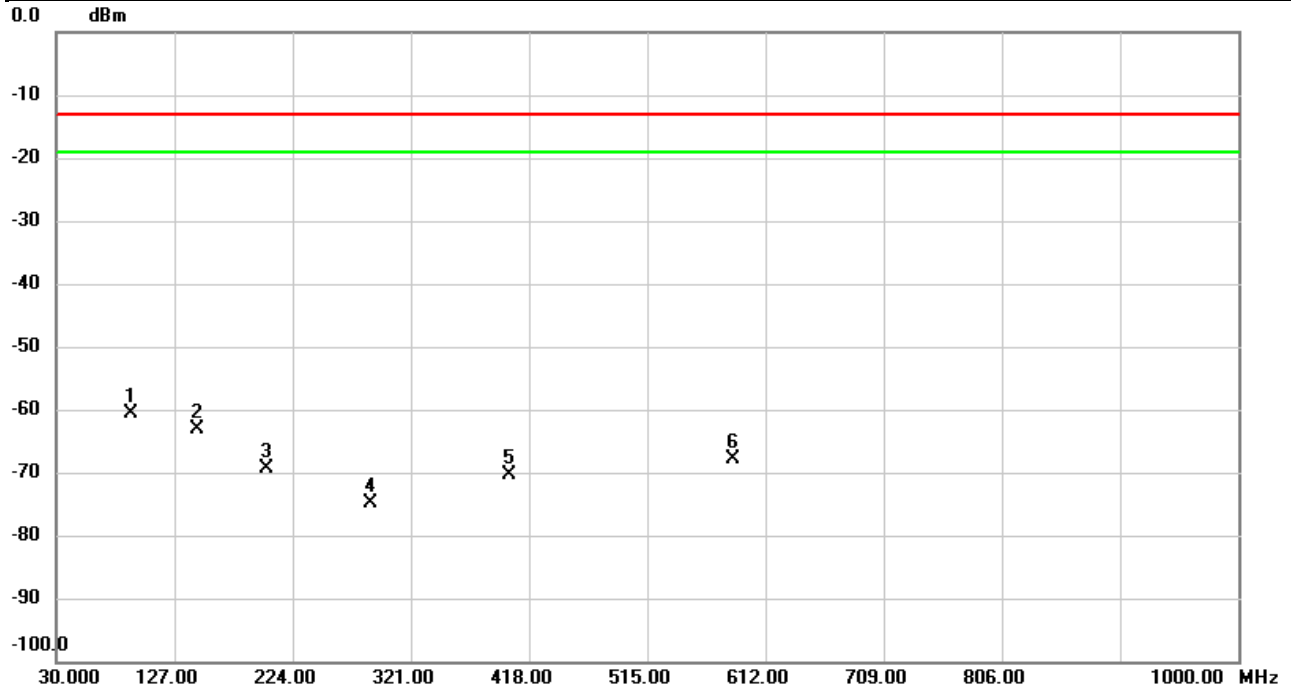


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	87.5533	-57.65	-3.54	-61.19	-13.00	-48.19	peak	
2		144.8480	-65.30	-0.88	-66.18	-13.00	-53.18	peak	
3		229.6583	-66.01	-0.66	-66.67	-13.00	-53.67	peak	
4		410.2722	-72.20	0.09	-72.11	-13.00	-59.11	peak	
5		527.1896	-67.95	3.66	-64.29	-13.00	-51.29	peak	
6		581.9623	-71.91	5.20	-66.71	-13.00	-53.71	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/26
Test Channel	CH26590	Polarization	Horizontal
Temp	21°C	Hum.	59%

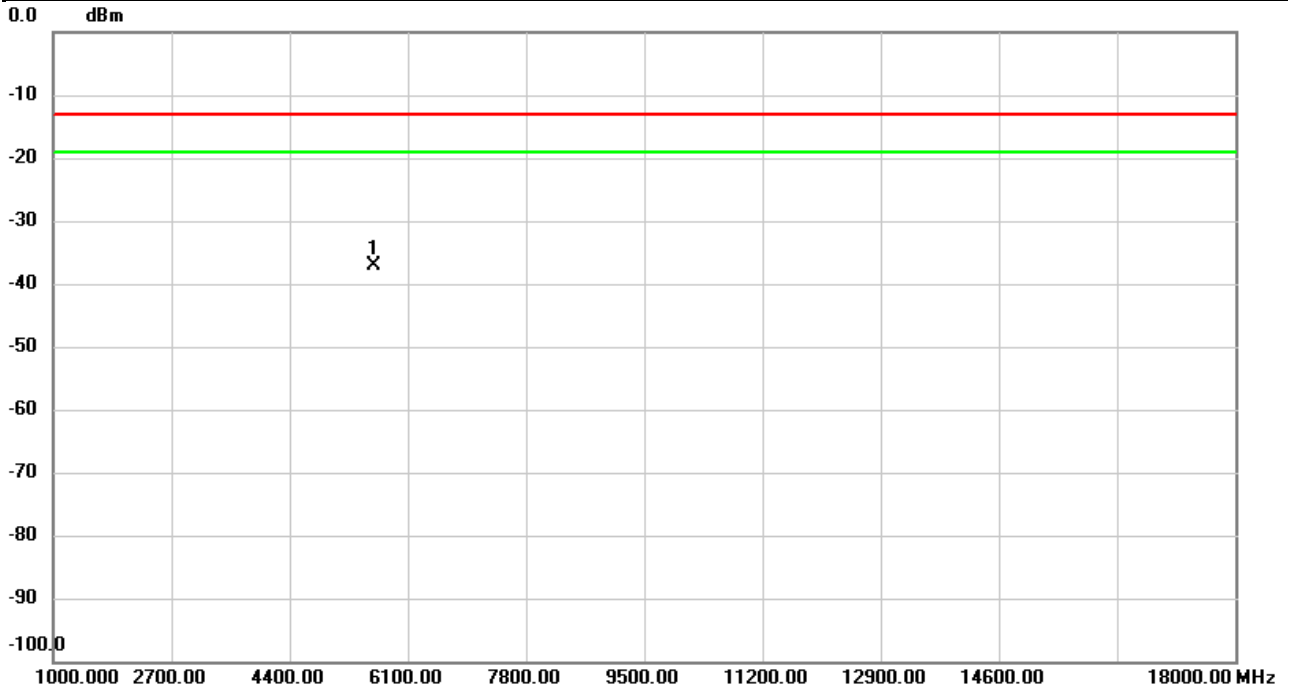


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	91.4980	-54.53	-6.11	-60.64	-13.00	-47.64	peak	
2		145.2683	-59.61	-3.46	-63.07	-13.00	-50.07	peak	
3		202.3690	-61.94	-7.35	-69.29	-13.00	-56.29	peak	
4		287.7613	-70.33	-4.42	-74.75	-13.00	-61.75	peak	
5		401.3160	-70.21	-0.27	-70.48	-13.00	-57.48	peak	
6		585.9070	-69.82	2.03	-67.79	-13.00	-54.79	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26140	Polarization	Vertical
Temp	22°C	Hum.	57%

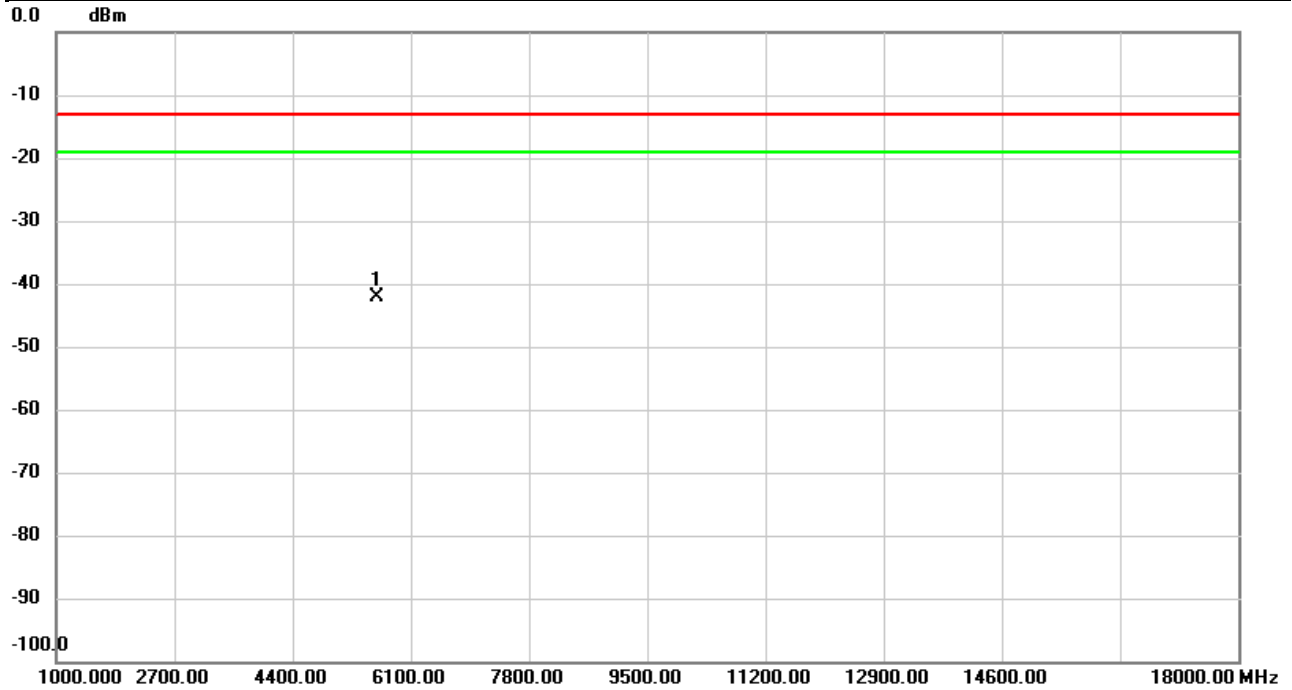


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5604.733	-52.19	15.12	-37.07	-13.00	-24.07	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26140	Polarization	Horizontal
Temp	22°C	Hum.	57%

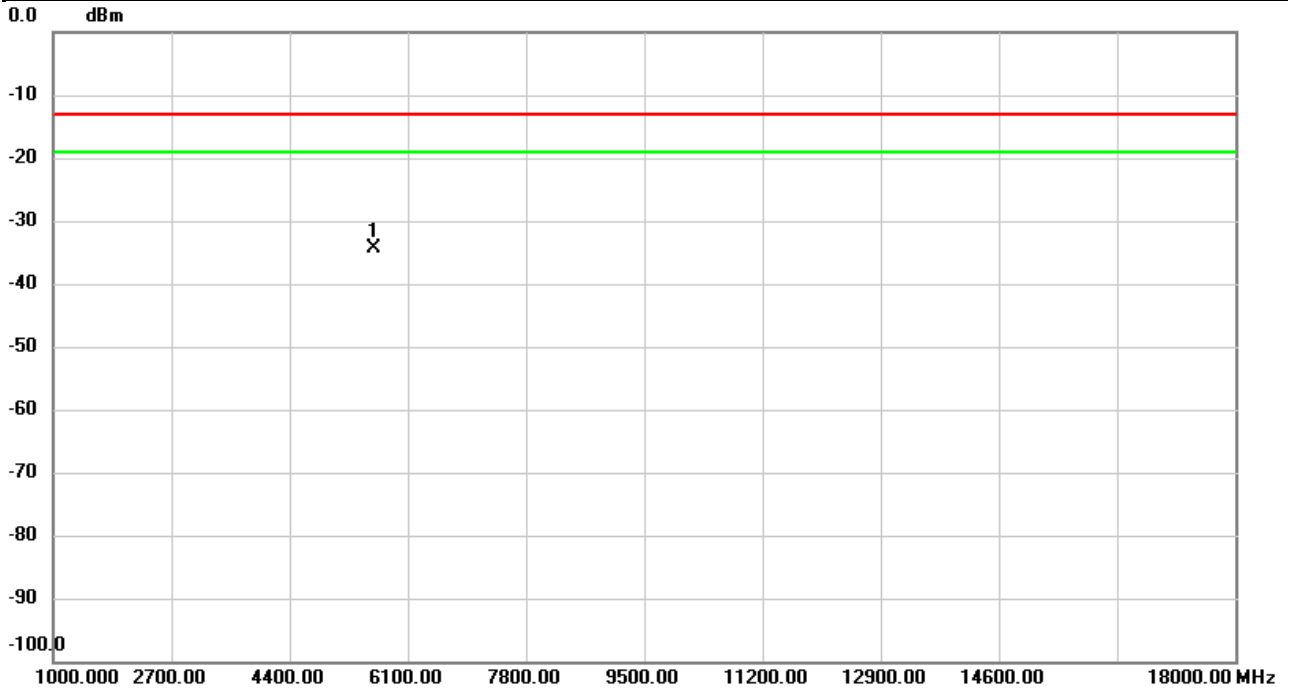


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5604.167	-57.11	14.94	-42.17	-13.00	-29.17	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26365	Polarization	Vertical
Temp	22°C	Hum.	57%

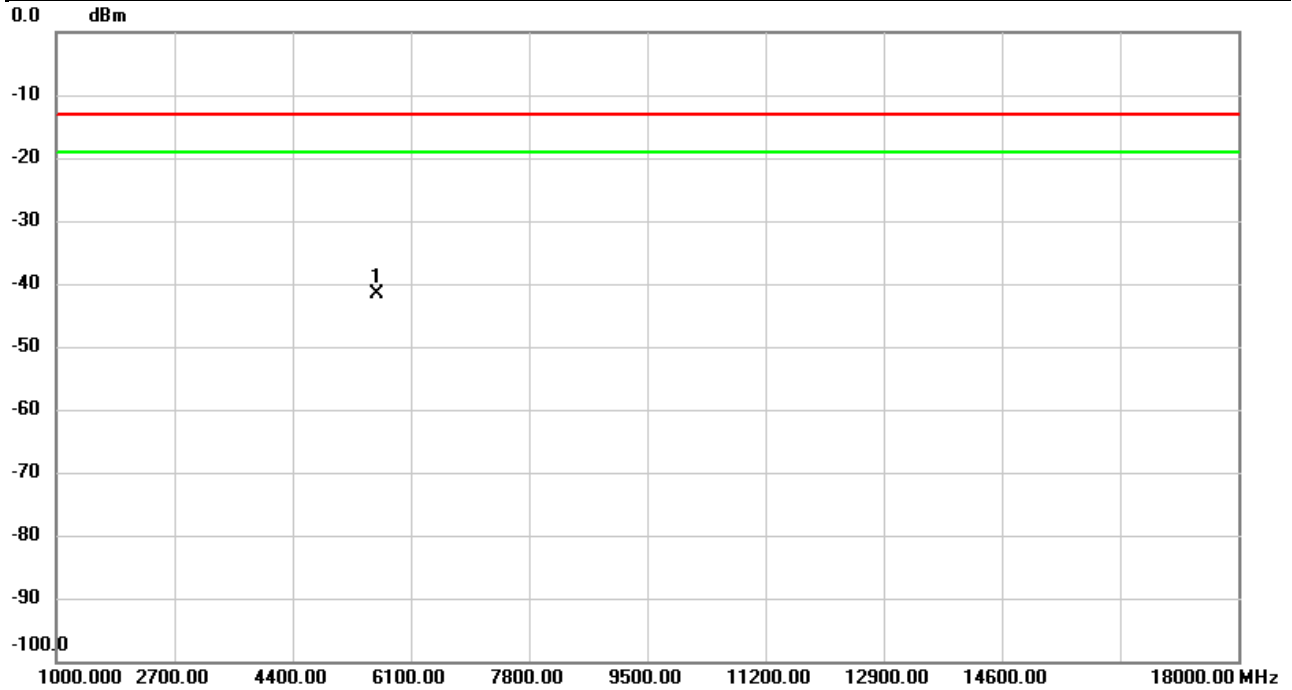


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5622.867	-49.23	14.95	-34.28	-13.00	-21.28	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26365	Polarization	Horizontal
Temp	22°C	Hum.	57%

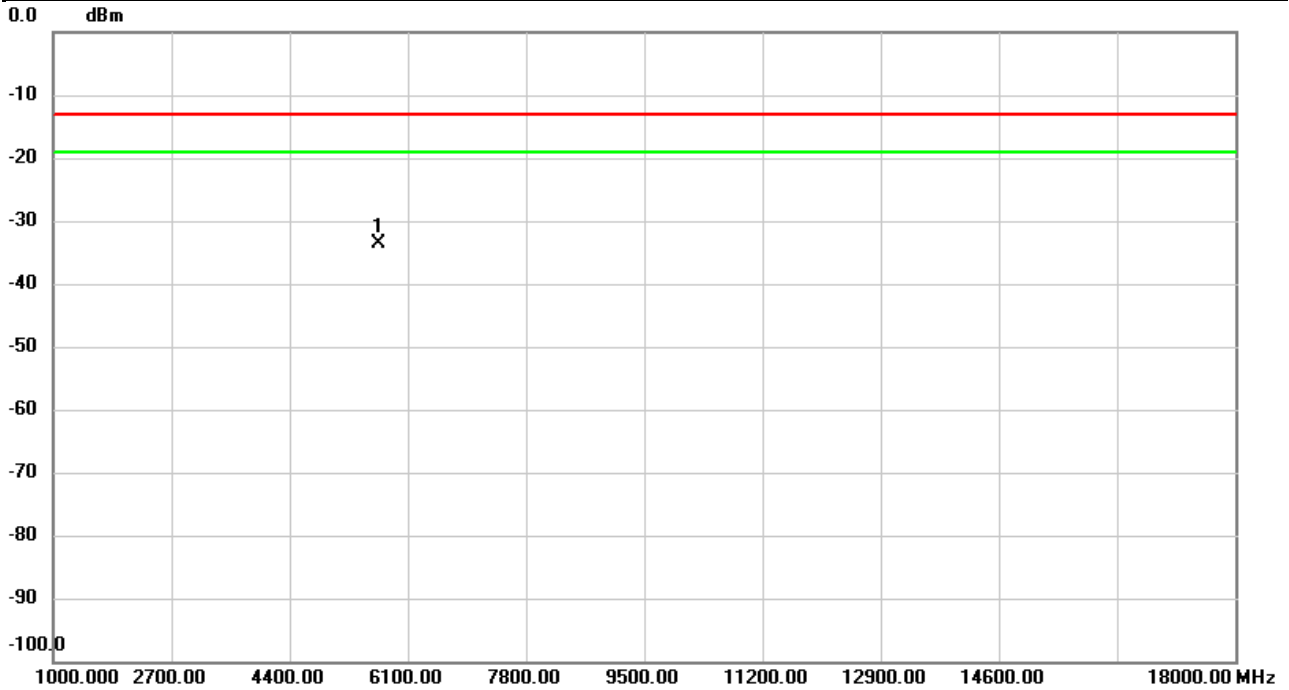


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5622.867	-56.31	14.72	-41.59	-13.00	-28.59	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26590	Polarization	Vertical
Temp	22°C	Hum.	57%

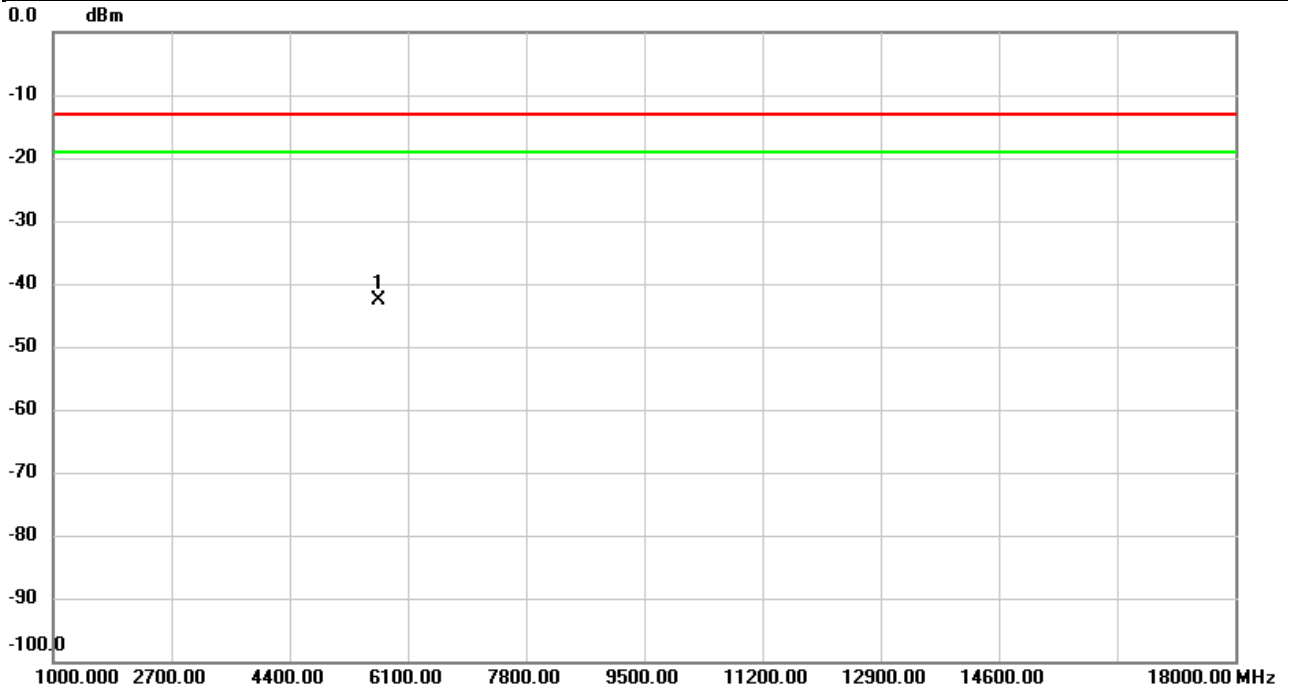


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5690.300	-48.43	14.87	-33.56	-13.00	-20.56	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/21
Test Channel	CH26590	Polarization	Horizontal
Temp	22°C	Hum.	57%

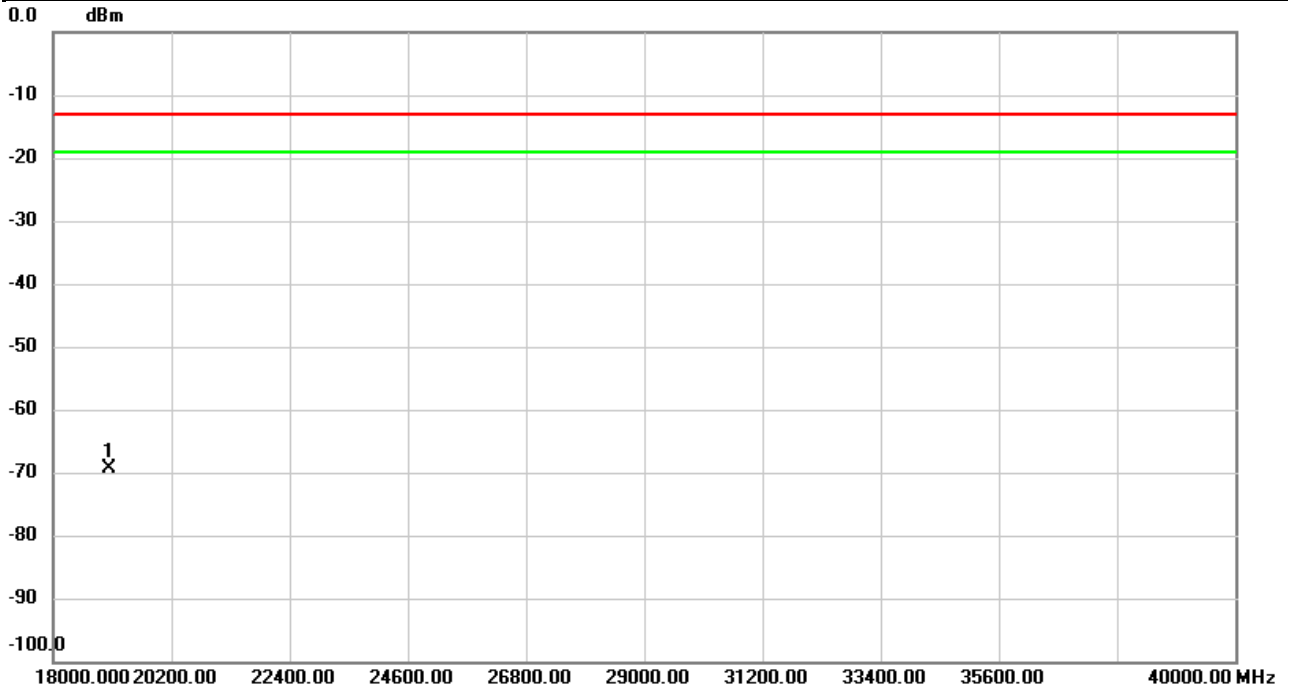


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5690.300	-57.37	14.69	-42.68	-13.00	-29.68	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/27
Test Channel	CH26590	Polarization	Vertical
Temp	23°C	Hum.	58%

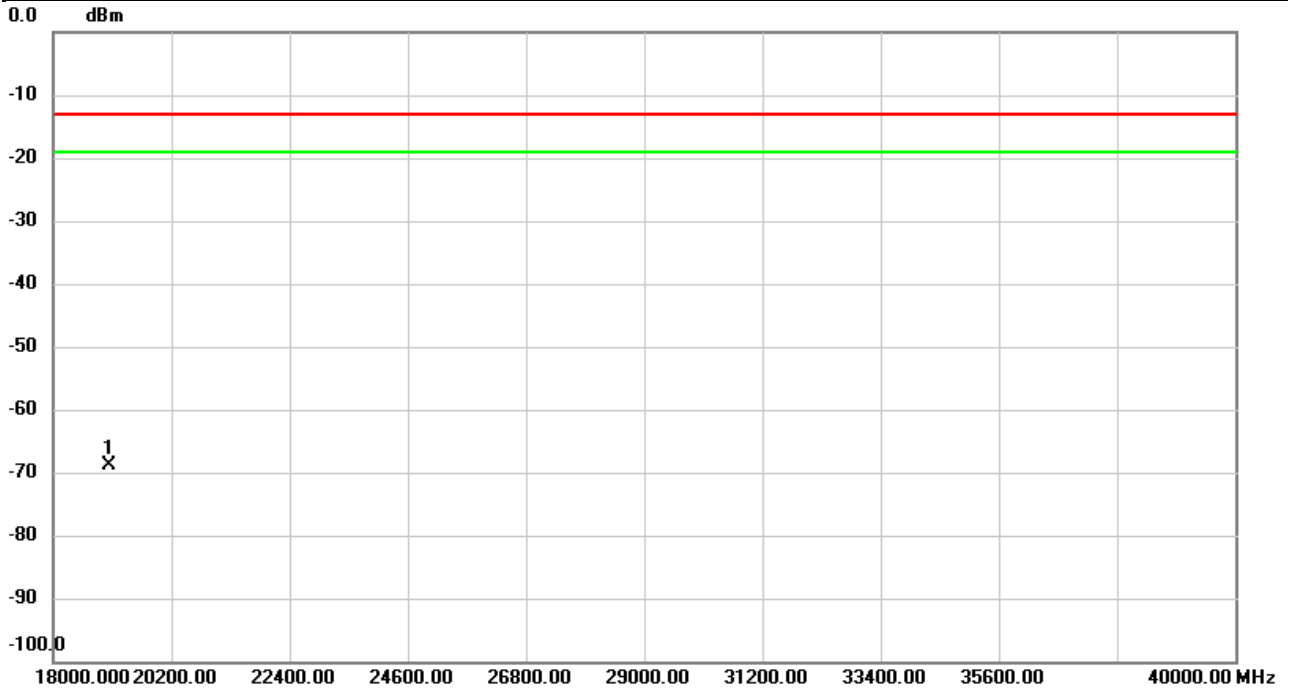


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	19050.00	-62.33	-6.98	-69.31	-13.00	-56.31	peak	

REMARKS:

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

Test Mode	LTE Band 25	Test Date	2023/12/27
Test Channel	CH26590	Polarization	Horizontal
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	19050.00	-61.80	-6.98	-68.78	-13.00	-55.78	peak	

REMARKS:

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

End of Test Report