

FCC Radio Test Report

FCC ID: XMR2023RM520NGLM

Report No. : BTL-FCCP-17-2511T179
Equipment : 5G Sub-6 GHz M.2 Module
Model Name : RM520N-GL
Brand Name : Quectel
Applicant : Quectel Wireless Solutions Company Limited
Address : No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai, China 201601

Radio Function : NR Band n48

FCC Rule Part(s) : FCC CFR Title 47, Part 96

Date of Receipt : 2025/11/28

Date of Test : 2025/12/11 ~ 2026/1/28

Issued Date : 2026/3/26

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

Prepared by : Brett Shen
Brett Shen, Engineer

Approved by : Jerry Chuang
Jerry Chuang, Vice Manager



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com



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** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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-17-2511T179	R00	Original Report.	2026/3/12	Invalid
BTL-FCCP-17-2511T179	R01	Revised report to address TCB's comments.	2026/3/26	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
2.1046 96.41	Equivalent Isotropic Radiated Power	APPENDIX A	Pass	-----
2.1053 96.41	Radiated Spurious Emissions	APPENDIX B	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

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: TP00160D), 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 RN: 674415) (FCC DN: TW0659)

☐ C05 ☒ SR10 ☐ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC RN: 674415) (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 %**.

A. Radiated emissions test :

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB21 (3m)	0.03~0.2	4.35
	0.2~1	4.78
	1 ~ 6	5.45
	6 ~ 18	5.04
	18 ~ 26	4.03
	26 ~ 40	4.33

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
Equivalent Isotropic Radiated Power	24.8 °C, 57 %	AC 120V	Easton Tsai
Radiated Spurious Emissions	Refer to data	AC 120V	Emily Chang

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	TP00160D			
Brand Name	Lenovo			
Model Difference	N/A			
Power Source	DC voltage supplied from External Power Supply. (Lenovo / ADLX65YGSLT3A)			
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® / BE201D2W			
WWAN Module	Quectel / RM520N-GL Quectel / EM061K-GL			
NFC Module	FOXCONN / T77H747			
Operation Frequency	Band	UL Frequency (MHz)		DL Frequency (MHz)
	NR n48	3550 ~ 3700		-
Maximum EIRP - Main Antenna	Band	BW (MHz)	Mode	Power (W)
	NR n48	10	PI/2 BPSK	0.164
			QPSK	0.163
			16QAM	0.135
			64QAM	0.098
			256QAM	0.061
		20	PI/2 BPSK	0.165
			QPSK	0.163
			16QAM	0.136
			64QAM	0.098
			256QAM	0.061
		30	PI/2 BPSK	0.167
			QPSK	0.166
			16QAM	0.137
			64QAM	0.099
			256QAM	0.062
		40	PI/2 BPSK	0.169
			QPSK	0.167
			16QAM	0.138
			64QAM	0.100
			256QAM	0.063
Maximum EIRP - MIMO2 Antenna	NR n48	10	PI/2 BPSK	0.139
			QPSK	0.138
			16QAM	0.114
			64QAM	0.081
			256QAM	0.052

Maximum EIRP - MIMO2 Antenna	NR n48	20	PI/2 BPSK	0.141
			QPSK	0.140
			16QAM	0.115
			64QAM	0.082
			256QAM	0.052
		30	PI/2 BPSK	0.129
			QPSK	0.127
			16QAM	0.102
			64QAM	0.072
			256QAM	0.045
		40	PI/2 BPSK	0.142
			QPSK	0.142
			16QAM	0.117
			64QAM	0.084
			256QAM	0.053
Maximum EIRP - UL MIMO	NR n48	10	QPSK	0.094
			16QAM	0.077
			64QAM	0.055
			256QAM	0.035
		20	QPSK	0.097
			16QAM	0.077
			64QAM	0.057
			256QAM	0.035
		30	QPSK	0.103
			16QAM	0.084
			64QAM	0.061
			256QAM	0.039
		40	QPSK	0.108
			16QAM	0.088
			64QAM	0.061
			256QAM	0.040

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	DC330022C00	PIFA	I-PEX	0.83	NR Band n48
MIMO1	Luxshare-ICT	DC330022C00	PIFA	I-PEX	-	RX only
MIMO2	Luxshare-ICT	DC330022D00	PIFA	I-PEX	0.22	NR Band n48

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	SPEEDWIRE	DC330022J10	PIFA	I-PEX	0.83	NR Band n48
MIMO1	SPEEDWIRE	DC330022J10	PIFA	I-PEX	-	RX only
MIMO2	SPEEDWIRE	DC330022J20	PIFA	I-PEX	0.22	NR Band n48

(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

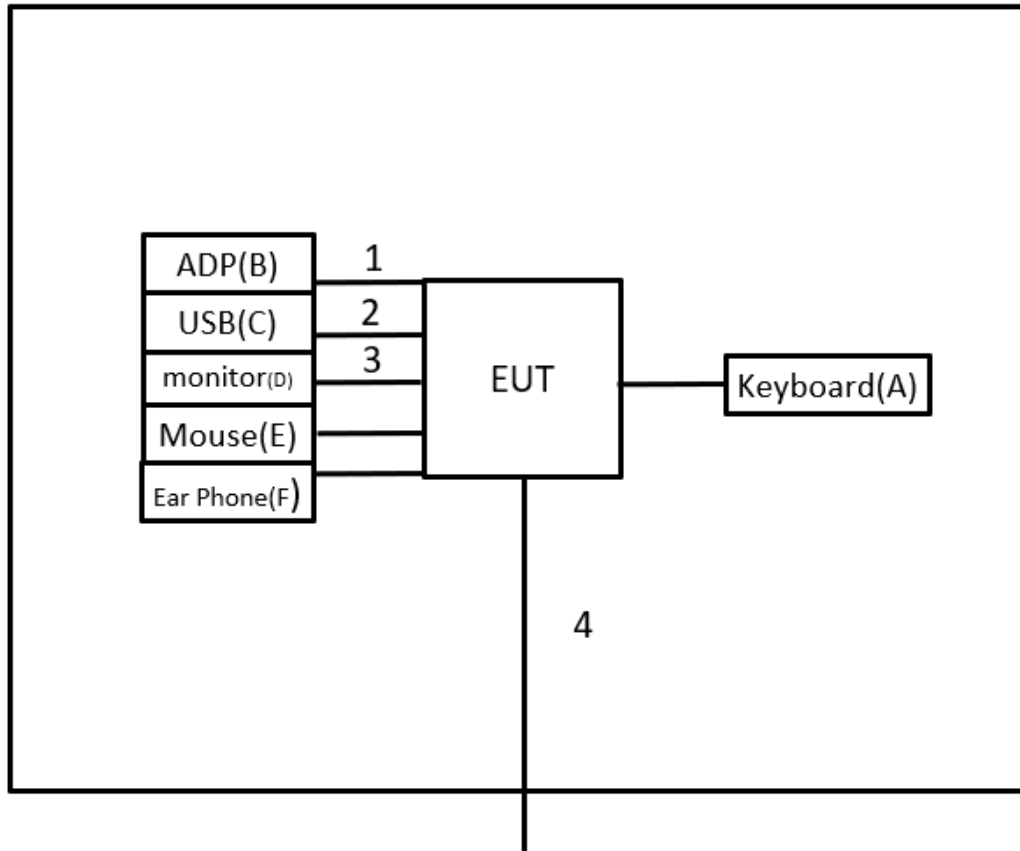
Test Items	Band	Test Mode	Note
Equivalent Isotropic Radiated Power	NR n48	Refer to APPENDIX A	-
Radiated Spurious Emissions (Below 1G)	NR n48	Refer to APPENDIX B	-
Radiated Spurious Emissions (Above 1G)	NR n48	Refer to APPENDIX B	-
Radiated Spurious Emissions (Above 18G)	NR n48	Refer to APPENDIX B	-

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 PI/2 BPSK, QPSK, 16QAM, 64QAM and 256QAM are evaluated, but only the worst case (QPSK) is recorded.
- (3) Support UL MIMO and SRS.

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	Keyboard	Bloody	KB-8	N/A	Furnished by test lab.
B	ADP	Lenovo	ADLX65YGSLT3A	N/A	Supplied by test requester.
C	USB	ADATA	UV150	N/A	Furnished by test lab.
D	27" 4K Monitor	DELL	P2415Q	N/A	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.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cord	Supplied by test requester.
2	N/A	N/A	0.1m	USB-C to USB 3.0 CABLE	Furnished by test lab.
3	N/A	N/A	1.8m	HDMI	Furnished by test lab.
4	N/A	N/A	20m	RJ45 Cable	Furnished by test lab.

3 EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

3.1 LIMIT

EIRP for CBRS equipment as below table:

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

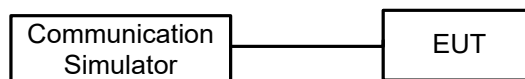
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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 measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- (2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

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

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (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

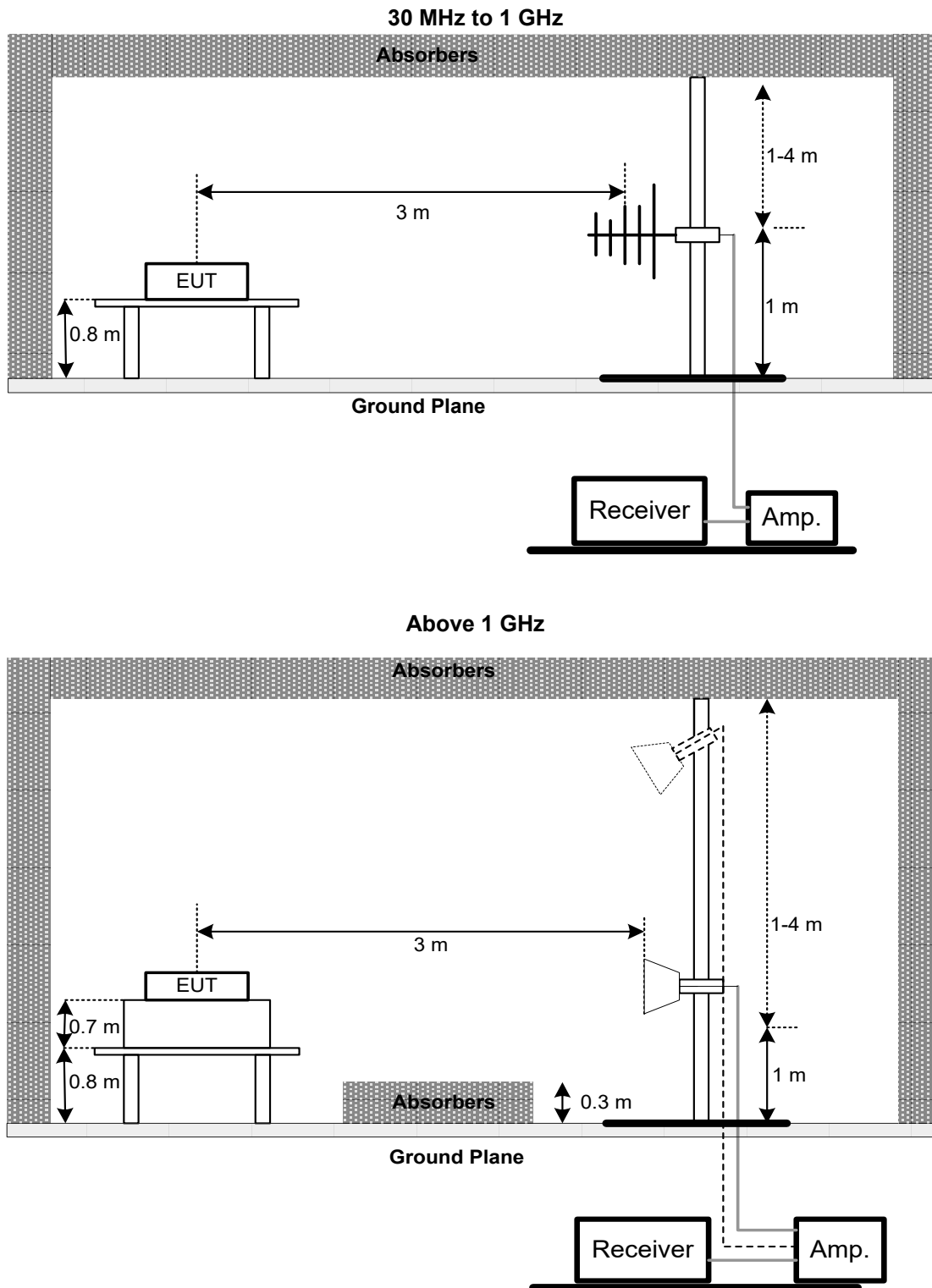
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- 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

Equivalent Isotropic Radiated Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2025/7/2	2026/7/1
2	Radio Communication Analyzer	ANRITSU	MT8820C	6201465366	2025/7/24	2026/7/23
3	Radio Communication Test Station	ANRITSU	MT8821C	6262044728	2025/11/21	2026/11/20
4	Radio Communication Analyzer	ANRITSU	MT8000A	6262036844	2025/11/25	2026/11/24

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2025/9/3	2026/9/2
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2025/9/3	2026/9/2
4	Preamplifier	EMCI	EMC001340	980579	2025/9/3	2026/9/2
5	Test Cable	EMCI	EMC104-SM-1000	180809	2025/3/5	2026/3/4
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2025/3/5	2026/3/4
7	Test Cable	EMCI	EMC105-SM-SM-8000	220422	2025/10/15	2026/10/14
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2025/9/1	2026/8/31
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2025/5/9	2026/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2025/5/15	2026/5/14
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2025/7/4	2026/7/3
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2025/7/4	2026/7/3
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A
17	Radio Communication Analyzer	Keysight	E7515B	MY59020217	2025/7/8	2026/7/7
18	Wideband Radio Communication Tester	R&S	CMW500	154121	2025/6/25	2026/6/24

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-2511T179-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2511T179-1 (APPENDIX-EUT PHOTOS).

APPENDIX A EQUIVALENT ISOTROPIC RADIATED POWER

NR Band n48 Main Antenna Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
n48_SA (3550-3700)	10	637000	3555	PI/2 BPSK	1	1	0	21.31	22.14	0.164
					1	22	0	21.29	22.12	0.163
					24	0	0.5	20.93	21.76	0.150
				QPSK	1	1	0	21.29	22.12	0.163
					1	22	0	21.23	22.06	0.161
					24	0	1	20.46	21.29	0.135
				16QAM	1	1	1	20.47	21.30	0.135
					1	22	1	20.44	21.27	0.134
					24	0	2	19.43	20.26	0.106
				64QAM	1	1	2.5	19.09	19.92	0.098
					1	22	2.5	18.94	19.77	0.095
					24	0	2.5	19.02	19.85	0.097
		641666	3624.99	256QAM	1	1	4.5	16.96	17.79	0.060
					1	22	4.5	17.00	17.83	0.061
					24	0	4.5	16.97	17.80	0.060
				PI/2 BPSK	1	1	0	21.29	22.12	0.163
					1	22	0	21.22	22.05	0.160
					24	0	0.5	21.02	21.85	0.153
				QPSK	1	1	0	21.22	22.05	0.160
					1	22	0	21.22	22.05	0.160
					24	0	1	20.46	21.29	0.135
				16QAM	1	1	1	20.39	21.22	0.132
					1	22	1	20.37	21.20	0.132
					24	0	2	19.45	20.28	0.107
		646332	3694.98	64QAM	1	1	2.5	19.00	19.83	0.096
					1	22	2.5	18.94	19.77	0.095
					24	0	2.5	18.91	19.74	0.094
				256QAM	1	1	4.5	16.91	17.74	0.059
					1	22	4.5	17.01	17.84	0.061
					24	0	4.5	16.82	17.65	0.058
				PI/2 BPSK	1	1	0	21.05	21.88	0.154
					1	22	0	21.07	21.90	0.155
					24	0	0.5	20.77	21.60	0.145
				QPSK	1	1	0	21.08	21.91	0.155
					1	22	0	21.01	21.84	0.153
					24	0	1	20.27	21.10	0.129
				16QAM	1	1	1	20.35	21.18	0.131
					1	22	1	20.31	21.14	0.130
					24	0	2	19.31	20.14	0.103
				64QAM	1	1	2.5	18.82	19.65	0.092
					1	22	2.5	18.77	19.60	0.091
					24	0	2.5	18.81	19.64	0.092
				256QAM	1	1	4.5	16.82	17.65	0.058
					1	22	4.5	16.75	17.58	0.057
					24	0	4.5	16.76	17.59	0.057

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)
n48_SA (3550-3700)	20	637334	3560.01	PI/2 BPSK	1	1	0	21.34	22.17	0.165
					1	49	0	21.34	22.17	0.165
					50	0	0.5	21.02	21.85	0.153
				QPSK	1	1	0	21.30	22.13	0.163
					1	49	0	21.26	22.09	0.162
					50	0	1	20.52	21.35	0.136
				16QAM	1	1	1	20.52	21.35	0.136
					1	49	1	20.48	21.31	0.135
					50	0	2	19.47	20.30	0.107
				64QAM	1	1	2.5	19.10	19.93	0.098
					1	49	2.5	19.02	19.85	0.097
					50	0	2.5	19.05	19.88	0.097
				256QAM	1	1	4.5	17.04	17.87	0.061
					1	49	4.5	17.05	17.88	0.061
					50	0	4.5	17.02	17.85	0.061
		641666	3624.99	PI/2 BPSK	1	1	0	21.31	22.14	0.164
					1	49	0	21.27	22.10	0.162
					50	0	0.5	21.03	21.86	0.153
				QPSK	1	1	0	21.29	22.12	0.163
					1	49	0	21.29	22.12	0.163
					50	0	1	20.50	21.33	0.136
				16QAM	1	1	1	20.46	21.29	0.135
					1	49	1	20.40	21.23	0.133
					50	0	2	19.47	20.30	0.107
				64QAM	1	1	2.5	19.02	19.85	0.097
					1	49	2.5	18.95	19.78	0.095
					50	0	2.5	18.99	19.82	0.096
				256QAM	1	1	4.5	16.94	17.77	0.060
					1	49	4.5	17.03	17.86	0.061
					50	0	4.5	16.90	17.73	0.059
		646000	3690	PI/2 BPSK	1	1	0	21.11	21.94	0.156
					1	49	0	21.16	21.99	0.158
					50	0	0.5	20.82	21.65	0.146
				QPSK	1	1	0	21.10	21.93	0.156
					1	49	0	21.08	21.91	0.155
					50	0	1	20.36	21.19	0.132
				16QAM	1	1	1	20.36	21.19	0.132
					1	49	1	20.35	21.18	0.131
					50	0	2	19.33	20.16	0.104
				64QAM	1	1	2.5	18.84	19.67	0.093
					1	49	2.5	18.83	19.66	0.092
					50	0	2.5	18.88	19.71	0.094
				256QAM	1	1	4.5	16.84	17.67	0.058
					1	49	4.5	16.82	17.65	0.058
					50	0	4.5	16.84	17.67	0.058

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)
n48_SA (3550-3700)	30	637668	3565.02	PI/2 BPSK	1	1	0	21.38	22.21	0.166
					1	76	0	21.38	22.21	0.166
					75	0	0.5	21.04	21.87	0.154
				QPSK	1	1	0	21.38	22.21	0.166
					1	76	0	21.33	22.16	0.164
					75	0	1	20.55	21.38	0.137
				16QAM	1	1	1	20.55	21.38	0.137
					1	76	1	20.51	21.34	0.136
					75	0	2	19.54	20.37	0.109
				64QAM	1	1	2.5	19.12	19.95	0.099
					1	76	2.5	19.05	19.88	0.097
					75	0	2.5	19.11	19.94	0.099
				256QAM	1	1	4.5	17.07	17.90	0.062
					1	76	4.5	17.10	17.93	0.062
					75	0	4.5	17.07	17.90	0.062
		641666	3624.99	PI/2 BPSK	1	1	0	21.39	22.22	0.167
					1	76	0	21.34	22.17	0.165
					75	0	0.5	21.07	21.90	0.155
				QPSK	1	1	0	21.35	22.18	0.165
					1	76	0	21.33	22.16	0.164
					75	0	1	20.57	21.40	0.138
				16QAM	1	1	1	20.47	21.30	0.135
					1	76	1	20.49	21.32	0.136
					75	0	2	19.50	20.33	0.108
				64QAM	1	1	2.5	19.04	19.87	0.097
					1	76	2.5	18.97	19.80	0.095
					75	0	2.5	19.05	19.88	0.097
				256QAM	1	1	4.5	17.02	17.85	0.061
					1	76	4.5	17.05	17.88	0.061
					75	0	4.5	16.97	17.80	0.060
		645666	3684.99	PI/2 BPSK	1	1	0	21.18	22.01	0.159
					1	76	0	21.21	22.04	0.160
					75	0	0.5	20.84	21.67	0.147
				QPSK	1	1	0	21.14	21.97	0.157
					1	76	0	21.14	21.97	0.157
					75	0	1	20.39	21.22	0.132
				16QAM	1	1	1	20.44	21.27	0.134
					1	76	1	20.39	21.22	0.132
					75	0	2	19.37	20.20	0.105
				64QAM	1	1	2.5	18.87	19.70	0.093
					1	76	2.5	18.88	19.71	0.094
					75	0	2.5	18.93	19.76	0.095
				256QAM	1	1	4.5	16.90	17.73	0.059
					1	76	4.5	16.88	17.71	0.059
					75	0	4.5	16.88	17.71	0.059

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)
n48_SA (3550-3700)	40	638000	3570	PI/2 BPSK	1	1	0	21.45	22.28	0.169
					1	104	0	21.40	22.23	0.167
					100	0	0.5	21.11	21.94	0.156
				QPSK	1	1	0	21.39	22.22	0.167
					1	104	0	21.38	22.21	0.166
					100	0	1	20.57	21.40	0.138
				16QAM	1	1	1	20.58	21.41	0.138
					1	104	1	20.58	21.41	0.138
					100	0	2	19.61	20.44	0.111
				64QAM	1	1	2.5	19.18	20.01	0.100
					1	104	2.5	19.12	19.95	0.099
					100	0	2.5	19.13	19.96	0.099
				256QAM	1	1	4.5	17.09	17.92	0.062
					1	104	4.5	17.17	18.00	0.063
					100	0	4.5	17.11	17.94	0.062
		641666	3624.99	PI/2 BPSK	1	1	0	21.41	22.24	0.167
					1	104	0	21.38	22.21	0.166
					100	0	0.5	21.09	21.92	0.156
				QPSK	1	1	0	21.40	22.23	0.167
					1	104	0	21.37	22.20	0.166
					100	0	1	20.59	21.42	0.139
				16QAM	1	1	1	20.55	21.38	0.137
					1	104	1	20.56	21.39	0.138
					100	0	2	19.58	20.41	0.110
				64QAM	1	1	2.5	19.08	19.91	0.098
					1	104	2.5	19.05	19.88	0.097
					100	0	2.5	19.09	19.92	0.098
				256QAM	1	1	4.5	17.06	17.89	0.062
					1	104	4.5	17.13	17.96	0.063
					100	0	4.5	17.03	17.86	0.061
		645332	3679.98	PI/2 BPSK	1	1	0	21.27	22.10	0.162
					1	104	0	21.25	22.08	0.161
					100	0	0.5	20.88	21.71	0.148
				QPSK	1	1	0	21.20	22.03	0.160
					1	104	0	21.21	22.04	0.160
					100	0	1	20.42	21.25	0.133
				16QAM	1	1	1	20.47	21.30	0.135
					1	104	1	20.41	21.24	0.133
					100	0	2	19.46	20.29	0.107
				64QAM	1	1	2.5	18.94	19.77	0.095
					1	104	2.5	18.94	19.77	0.095
					100	0	2.5	18.94	19.77	0.095
				256QAM	1	1	4.5	16.93	17.76	0.060
					1	104	4.5	16.95	17.78	0.060
					100	0	4.5	16.91	17.74	0.059

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

NR Band n48 MIMO2 Antenna Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	EIRP power (dBm)	EIRP power (W)
IC n48 (3550~3700)	10	637000	3555	PI/2 BPSK	1	1	0	21.12	21.34	0.136
					1	22	0	21.08	21.30	0.135
					24	0	0.5	20.69	20.91	0.123
				QPSK	1	1	0	21.08	21.30	0.135
					1	22	0	20.97	21.19	0.132
					24	0	1	20.26	20.48	0.112
				16QAM	1	1	1	20.25	20.47	0.111
					1	22	1	20.22	20.44	0.111
					24	0	2	19.24	19.46	0.088
				64QAM	1	1	2.5	18.74	18.96	0.079
					1	22	2.5	18.65	18.87	0.077
					24	0	2.5	18.67	18.89	0.077
		641666	3624.99	256QAM	1	1	4.5	16.83	17.05	0.051
					1	22	4.5	16.74	16.96	0.050
					24	0	4.5	16.74	16.96	0.050
				PI/2 BPSK	1	1	0	21.22	21.44	0.139
					1	22	0	21.03	21.25	0.133
					24	0	0.5	20.72	20.94	0.124
				QPSK	1	1	0	21.13	21.35	0.136
					1	22	0	21.17	21.39	0.138
					24	0	1	20.31	20.53	0.113
				16QAM	1	1	1	20.34	20.56	0.114
					1	22	1	20.29	20.51	0.112
					24	0	2	19.23	19.45	0.088
		646332	3694.98	64QAM	1	1	2.5	18.85	19.07	0.081
					1	22	2.5	18.73	18.95	0.079
					24	0	2.5	18.84	19.06	0.081
				256QAM	1	1	4.5	16.84	17.06	0.051
					1	22	4.5	16.91	17.13	0.052
					24	0	4.5	16.77	16.99	0.050
				PI/2 BPSK	1	1	0	20.91	21.13	0.130
					1	22	0	20.97	21.19	0.132
					24	0	0.5	20.61	20.83	0.121
				QPSK	1	1	0	21.02	21.24	0.133
					1	22	0	20.83	21.05	0.127
					24	0	1	20.12	20.34	0.108
				16QAM	1	1	1	20.22	20.44	0.111
					1	22	1	20.13	20.35	0.108
					24	0	2	19.10	19.32	0.086
				64QAM	1	1	2.5	18.64	18.86	0.077
					1	22	2.5	18.68	18.90	0.078
					24	0	2.5	18.70	18.92	0.078
				256QAM	1	1	4.5	16.66	16.88	0.049
					1	22	4.5	16.64	16.86	0.049
					24	0	4.5	16.61	16.83	0.048

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)
IC n48 (3550~3700)	20	637334	3560.01	PI/2 BPSK	1	1	0	21.15	21.37	0.137
					1	49	0	21.09	21.31	0.135
					50	0	0.5	20.74	20.96	0.125
				QPSK	1	1	0	21.14	21.36	0.137
					1	49	0	21.03	21.25	0.133
					50	0	1	20.30	20.52	0.113
				16QAM	1	1	1	20.33	20.55	0.114
					1	49	1	20.30	20.52	0.113
					50	0	2	19.32	19.54	0.090
				64QAM	1	1	2.5	18.75	18.97	0.079
					1	49	2.5	18.73	18.95	0.079
					50	0	2.5	18.76	18.98	0.079
				256QAM	1	1	4.5	16.85	17.07	0.051
					1	49	4.5	16.79	17.01	0.050
					50	0	4.5	16.82	17.04	0.051
		641666	3624.99	PI/2 BPSK	1	1	0	21.27	21.49	0.141
					1	49	0	21.09	21.31	0.135
					50	0	0.5	20.76	20.98	0.125
				QPSK	1	1	0	21.18	21.40	0.138
					1	49	0	21.24	21.46	0.140
					50	0	1	20.33	20.55	0.114
				16QAM	1	1	1	20.39	20.61	0.115
					1	49	1	20.37	20.59	0.115
					50	0	2	19.31	19.53	0.090
				64QAM	1	1	2.5	18.91	19.13	0.082
					1	49	2.5	18.79	19.01	0.080
					50	0	2.5	18.91	19.13	0.082
				256QAM	1	1	4.5	16.88	17.10	0.051
					1	49	4.5	16.93	17.15	0.052
					50	0	4.5	16.85	17.07	0.051
		646000	3690	PI/2 BPSK	1	1	0	20.99	21.21	0.132
					1	49	0	21.00	21.22	0.132
					50	0	0.5	20.69	20.91	0.123
				QPSK	1	1	0	21.03	21.25	0.133
					1	49	0	20.91	21.13	0.130
					50	0	1	20.20	20.42	0.110
				16QAM	1	1	1	20.24	20.46	0.111
					1	49	1	20.20	20.42	0.110
					50	0	2	19.19	19.41	0.087
				64QAM	1	1	2.5	18.71	18.93	0.078
					1	49	2.5	18.69	18.91	0.078
					50	0	2.5	18.74	18.96	0.079
				256QAM	1	1	4.5	16.75	16.97	0.050
					1	49	4.5	16.72	16.94	0.049
					50	0	4.5	16.63	16.85	0.048

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)
IC n48 (3550~3700)	30	637668	3565.02	PI/2 BPSK	1	1	0	21.23	20.92	0.124
					1	76	0	21.11	20.90	0.123
					75	0	0.5	20.81	20.32	0.108
				QPSK	1	1	0	21.18	20.87	0.122
					1	76	0	21.10	20.85	0.122
					75	0	1	20.35	19.93	0.098
				16QAM	1	1	1	20.36	19.84	0.096
					1	76	1	20.32	20.01	0.100
					75	0	2	19.36	18.98	0.079
				64QAM	1	1	2.5	18.82	18.43	0.070
					1	76	2.5	18.80	18.47	0.070
					75	0	2.5	18.82	18.32	0.068
		641666	3624.99	256QAM	1	1	4.5	16.88	16.43	0.044
					1	76	4.5	16.86	16.40	0.044
					75	0	4.5	16.87	16.45	0.044
				PI/2 BPSK	1	1	0	21.28	21.05	0.127
					1	76	0	21.18	21.11	0.129
					75	0	0.5	20.83	20.38	0.109
				QPSK	1	1	0	21.22	21.03	0.127
					1	76	0	21.25	20.90	0.123
					75	0	1	20.37	19.90	0.098
				16QAM	1	1	1	20.41	20.10	0.102
					1	76	1	20.40	19.98	0.100
					75	0	2	19.39	18.90	0.078
				64QAM	1	1	2.5	18.93	18.49	0.071
					1	76	2.5	18.85	18.47	0.070
					75	0	2.5	18.96	18.42	0.070
				256QAM	1	1	4.5	16.95	16.50	0.045
					1	76	4.5	16.96	16.43	0.044
					75	0	4.5	16.86	16.41	0.044
		645666	3684.99	PI/2 BPSK	1	1	0	21.07	20.80	0.120
					1	76	0	21.08	20.71	0.118
					75	0	0.5	20.71	20.45	0.111
				QPSK	1	1	0	21.11	20.83	0.121
					1	76	0	21.00	20.75	0.119
					75	0	1	20.23	19.95	0.099
				16QAM	1	1	1	20.25	19.91	0.098
					1	76	1	20.24	19.80	0.095
					75	0	2	19.25	18.78	0.076
				64QAM	1	1	2.5	18.79	18.43	0.070
					1	76	2.5	18.75	18.41	0.069
					75	0	2.5	18.77	18.55	0.072
				256QAM	1	1	4.5	16.78	16.43	0.044
					1	76	4.5	16.78	16.53	0.045
					75	0	4.5	16.67	16.41	0.044

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)
IC n48 (3550~3700)	40	638000	3570	PI/2 BPSK	1	1	0	21.24	21.46	0.140
					1	104	0	21.20	21.42	0.139
					100	0	0.5	20.84	21.06	0.128
				QPSK	1	1	0	21.20	21.42	0.139
					1	104	0	21.16	21.38	0.137
					100	0	1	20.40	20.62	0.115
				16QAM	1	1	1	20.42	20.64	0.116
					1	104	1	20.35	20.57	0.114
					100	0	2	19.42	19.64	0.092
				64QAM	1	1	2.5	18.88	19.10	0.081
					1	104	2.5	18.86	19.08	0.081
					100	0	2.5	18.91	19.13	0.082
		641666	3624.99	256QAM	1	1	4.5	16.90	17.12	0.052
					1	104	4.5	16.93	17.15	0.052
					100	0	4.5	16.93	17.15	0.052
				PI/2 BPSK	1	1	0	21.30	21.52	0.142
					1	104	0	21.26	21.48	0.141
					100	0	0.5	20.90	21.12	0.129
				QPSK	1	1	0	21.30	21.52	0.142
					1	104	0	21.31	21.53	0.142
					100	0	1	20.41	20.63	0.116
				16QAM	1	1	1	20.46	20.68	0.117
					1	104	1	20.45	20.67	0.117
					100	0	2	19.48	19.70	0.093
		645332	3679.98	64QAM	1	1	2.5	19.02	19.24	0.084
					1	104	2.5	18.91	19.13	0.082
					100	0	2.5	18.98	19.20	0.083
				256QAM	1	1	4.5	16.96	17.18	0.052
					1	104	4.5	17.01	17.23	0.053
					100	0	4.5	16.95	17.17	0.052
				PI/2 BPSK	1	1	0	21.14	21.36	0.137
					1	104	0	21.12	21.34	0.136
					100	0	0.5	20.77	20.99	0.126
				QPSK	1	1	0	21.16	21.38	0.137
					1	104	0	21.07	21.29	0.135
					100	0	1	20.29	20.51	0.112
				16QAM	1	1	1	20.32	20.54	0.113
					1	104	1	20.26	20.48	0.112
					100	0	2	19.28	19.50	0.089
				64QAM	1	1	2.5	18.80	19.02	0.080
					1	104	2.5	18.81	19.03	0.080
					100	0	2.5	18.83	19.05	0.080
				256QAM	1	1	4.5	16.86	17.08	0.051
					1	104	4.5	16.85	17.07	0.051
					100	0	4.5	16.75	16.97	0.050

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

NR Band n48 UL MIMO Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Ant1 Average power (dBm)	Ant2 Average power (dBm)	Total Average power (dBm)	EIRP power (dBm)	EIRP power (W)
FCC n48_MIMO	10	637000	3555	QPSK	1	1	0	16.45	15.30	18.92	19.75	0.094
					1	22	0	16.48	15.10	18.85	19.68	0.093
					24	0	1	15.65	14.03	17.93	18.76	0.075
				16QAM	1	1	1	15.32	14.04	17.74	18.57	0.072
					1	22	1	15.48	14.35	17.96	18.79	0.076
					24	0	2	14.44	13.06	16.81	17.64	0.058
				64QAM	1	1	2.5	14.03	12.59	16.38	17.21	0.053
					1	22	2.5	14.16	12.91	16.59	17.42	0.055
					24	0	2.5	14.02	12.51	16.34	17.17	0.052
				256QAM	1	1	4.5	12.14	10.76	14.51	15.34	0.034
					1	22	4.5	11.98	10.84	14.46	15.29	0.034
					24	0	4.5	12.25	10.64	14.53	15.36	0.034
		641666	3624.99	QPSK	1	1	0	16.55	15.06	18.88	19.71	0.094
					1	22	0	16.52	15.00	18.84	19.67	0.093
					24	0	1	15.51	13.86	17.77	18.60	0.072
				16QAM	1	1	1	15.67	14.10	17.97	18.80	0.076
					1	22	1	15.81	14.08	18.04	18.87	0.077
					24	0	2	14.65	13.09	16.95	17.78	0.060
				64QAM	1	1	2.5	14.26	12.68	16.55	17.38	0.055
					1	22	2.5	14.01	12.71	16.42	17.25	0.053
					24	0	2.5	13.87	12.55	16.27	17.10	0.051
				256QAM	1	1	4.5	11.93	10.67	14.36	15.19	0.033
					1	22	4.5	12.22	10.85	14.60	15.43	0.035
					24	0	4.5	12.08	10.63	14.43	15.26	0.034
		646332	3694.98	QPSK	1	1	0	16.48	15.12	18.86	19.69	0.093
					1	22	0	16.24	14.96	18.66	19.49	0.089
					24	0	1	15.39	14.21	17.85	18.68	0.074
				16QAM	1	1	1	15.51	14.12	17.88	18.71	0.074
					1	22	1	15.36	14.06	17.77	18.60	0.072
					24	0	2	14.30	12.85	16.65	17.48	0.056
				64QAM	1	1	2.5	14.20	12.42	16.41	17.24	0.053
					1	22	2.5	13.92	12.82	16.42	17.25	0.053
					24	0	2.5	14.08	12.43	16.34	17.17	0.052
				256QAM	1	1	4.5	12.08	10.64	14.43	15.26	0.034
					1	22	4.5	12.09	10.85	14.52	15.35	0.034
					24	0	4.5	12.21	10.77	14.56	15.39	0.035

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	Ant1 Average power (dBm)	Ant2 Average power (dBm)	Total Average power (dBm)	EIRP power (dBm)	EIRP power (W)
FCC n48_MIMO	20	637334	3560.01	QPSK	1	1	0	16.64	15.36	19.06	19.89	0.097
					1	49	0	16.70	15.25	19.05	19.88	0.097
					50	0	1	15.34	14.46	17.93	18.76	0.075
				16QAM	1	1	1	15.52	14.48	18.04	18.87	0.077
					1	49	1	15.40	14.29	17.89	18.72	0.074
					50	0	2	14.80	13.28	17.12	17.95	0.062
				64QAM	1	1	2.5	14.38	13.00	16.75	17.58	0.057
					1	49	2.5	14.28	12.73	16.58	17.41	0.055
					50	0	2.5	14.19	12.97	16.63	17.46	0.056
				256QAM	1	1	4.5	12.04	10.74	14.45	15.28	0.034
					1	49	4.5	12.39	10.61	14.60	15.43	0.035
					50	0	4.5	12.41	10.59	14.60	15.43	0.035
		641666	3624.99	QPSK	1	1	0	16.79	15.08	19.03	19.86	0.097
					1	49	0	16.55	14.95	18.83	19.66	0.093
					50	0	1	15.66	14.14	17.98	18.81	0.076
				16QAM	1	1	1	15.73	13.80	17.88	18.71	0.074
					1	49	1	15.61	13.84	17.82	18.65	0.073
					50	0	2	14.85	13.20	17.11	17.94	0.062
				64QAM	1	1	2.5	14.35	12.65	16.59	17.42	0.055
					1	49	2.5	14.09	12.63	16.43	17.26	0.053
					50	0	2.5	14.05	12.54	16.37	17.20	0.052
				256QAM	1	1	4.5	12.01	10.44	14.31	15.14	0.033
					1	49	4.5	12.14	10.64	14.46	15.29	0.034
					50	0	4.5	12.01	10.73	14.43	15.26	0.034
		646000	3690	QPSK	1	1	0	16.72	15.22	19.04	19.87	0.097
					1	49	0	16.52	15.27	18.95	19.78	0.095
					50	0	1	15.43	14.33	17.93	18.76	0.075
				16QAM	1	1	1	15.67	14.02	17.93	18.76	0.075
					1	49	1	15.71	14.10	17.99	18.82	0.076
					50	0	2	14.62	13.09	16.93	17.76	0.060
				64QAM	1	1	2.5	14.42	12.81	16.70	17.53	0.057
					1	49	2.5	14.46	12.81	16.72	17.55	0.057
					50	0	2.5	14.32	12.46	16.50	17.33	0.054
				256QAM	1	1	4.5	12.24	10.59	14.50	15.33	0.034
					1	49	4.5	12.32	10.88	14.67	15.50	0.035
					50	0	4.5	12.05	10.72	14.45	15.28	0.034

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	Ant1 Average power (dBm)	Ant2 Average power (dBm)	Total Average power (dBm)	EIRP power (dBm)	EIRP power (W)
FCC n48_MIMO	30	637668	3565.02	QPSK	1	1	0	16.90	15.43	19.24	20.07	0.102
					1	76	0	17.03	15.19	19.22	20.05	0.101
					75	0	1	16.11	14.55	18.41	19.24	0.084
				16QAM	1	1	1	15.80	14.65	18.27	19.10	0.081
					1	76	1	15.92	14.67	18.35	19.18	0.083
					75	0	2	14.93	13.50	17.28	18.11	0.065
				64QAM	1	1	2.5	14.62	13.23	16.99	17.82	0.061
					1	76	2.5	14.12	12.71	16.48	17.31	0.054
					75	0	2.5	14.66	13.05	16.94	17.77	0.060
				256QAM	1	1	4.5	12.36	10.89	14.70	15.53	0.036
					1	76	4.5	12.21	10.85	14.59	15.42	0.035
					75	0	4.5	12.17	11.18	14.71	15.54	0.036
		641666	3624.99	QPSK	1	1	0	16.88	15.38	19.20	20.03	0.101
					1	76	0	16.64	15.26	19.01	19.84	0.096
					75	0	1	15.68	14.58	18.18	19.01	0.080
				16QAM	1	1	1	15.65	14.34	18.05	18.88	0.077
					1	76	1	16.09	14.55	18.40	19.23	0.084
					75	0	2	14.79	13.50	17.20	18.03	0.064
				64QAM	1	1	2.5	14.33	13.18	16.80	17.63	0.058
					1	76	2.5	14.18	12.83	16.57	17.40	0.055
					75	0	2.5	14.13	13.00	16.61	17.44	0.055
				256QAM	1	1	4.5	12.41	10.63	14.62	15.45	0.035
					1	76	4.5	12.25	10.67	14.54	15.37	0.034
					75	0	4.5	12.17	10.72	14.52	15.35	0.034
		645666	3684.99	QPSK	1	1	0	16.96	15.38	19.25	20.08	0.102
					1	76	0	16.97	15.46	19.29	20.12	0.103
					75	0	1	16.04	14.18	18.22	19.05	0.080
				16QAM	1	1	1	15.86	14.63	18.30	19.13	0.082
					1	76	1	16.04	14.31	18.27	19.10	0.081
					75	0	2	14.99	13.52	17.33	18.16	0.065
				64QAM	1	1	2.5	14.39	12.83	16.69	17.52	0.056
					1	76	2.5	14.32	13.14	16.78	17.61	0.058
					75	0	2.5	14.69	13.04	16.95	17.78	0.060
				256QAM	1	1	4.5	12.36	10.79	14.66	15.49	0.035
					1	76	4.5	12.73	11.16	15.03	15.86	0.039
					75	0	4.5	12.63	10.93	14.87	15.70	0.037

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	Ant1 Average power (dBm)	Ant2 Average power (dBm)	Total Average power (dBm)	EIRP power (dBm)	EIRP power (W)
FCC n48_MIMO	40	638000	3570	QPSK	1	1	0	17.10	15.59	19.42	20.25	0.106
					1	104	0	17.06	15.85	19.51	20.34	0.108
					100	0	1	16.39	14.55	18.58	19.41	0.087
				16QAM	1	1	1	16.26	14.82	18.61	19.44	0.088
					1	104	1	16.39	14.38	18.51	19.34	0.086
					100	0	2	15.14	13.76	17.51	18.34	0.068
				64QAM	1	1	2.5	14.31	13.27	16.83	17.66	0.058
					1	104	2.5	14.62	12.81	16.82	17.65	0.058
					100	0	2.5	14.77	12.88	16.94	17.77	0.060
				256QAM	1	1	4.5	12.44	11.06	14.81	15.64	0.037
					1	104	4.5	12.34	11.27	14.85	15.68	0.037
					100	0	4.5	12.87	11.30	15.17	16.00	0.040
		641666	3624.99	QPSK	1	1	0	17.08	15.61	19.42	20.25	0.106
					1	104	0	16.95	15.36	19.24	20.07	0.102
					100	0	1	16.28	14.56	18.51	19.34	0.086
				16QAM	1	1	1	16.32	14.56	18.54	19.37	0.086
					1	104	1	15.89	14.36	18.20	19.03	0.080
					100	0	2	15.13	13.86	17.55	18.38	0.069
				64QAM	1	1	2.5	14.68	13.03	16.94	17.77	0.060
					1	104	2.5	14.39	13.28	16.88	17.71	0.059
					100	0	2.5	14.78	13.16	17.06	17.89	0.061
				256QAM	1	1	4.5	12.29	11.35	14.86	15.69	0.037
					1	104	4.5	12.38	11.17	14.83	15.66	0.037
					100	0	4.5	12.43	11.23	14.88	15.71	0.037
		645332	3679.98	QPSK	1	1	0	16.98	15.55	19.33	20.16	0.104
					1	104	0	16.91	15.34	19.21	20.04	0.101
					100	0	1	16.37	14.53	18.56	19.39	0.087
				16QAM	1	1	1	16.32	14.23	18.41	19.24	0.084
					1	104	1	15.82	14.19	18.09	18.92	0.078
					100	0	2	14.90	13.20	17.14	17.97	0.063
				64QAM	1	1	2.5	14.38	12.91	16.72	17.55	0.057
					1	104	2.5	14.75	12.94	16.95	17.78	0.060
					100	0	2.5	14.80	12.80	16.92	17.75	0.060
				256QAM	1	1	4.5	12.53	11.05	14.86	15.69	0.037
					1	104	4.5	12.34	10.72	14.62	15.45	0.035
					100	0	4.5	12.67	10.96	14.91	15.74	0.037

NOTE:

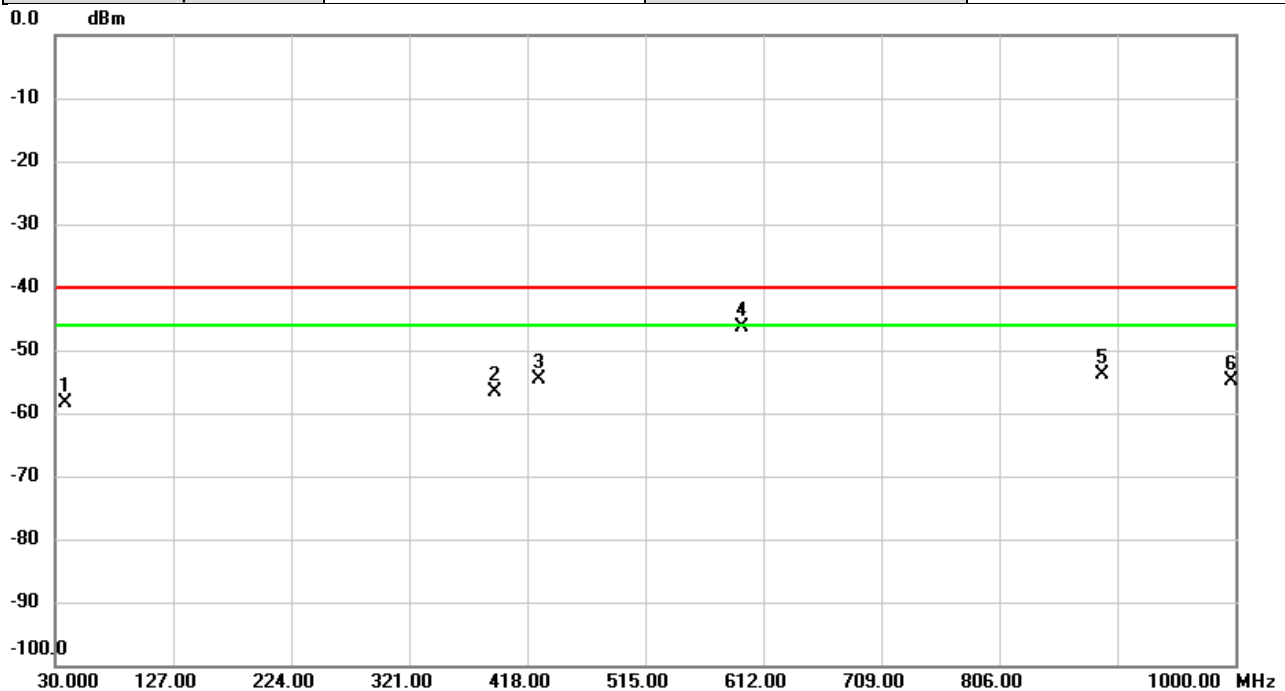
(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

APPENDIX B RADIATED SPURIOUS EMISSIONS

Test Mode	NR n48	Test Date	2026/1/21
Test Channel	CH641666	Polarization	Vertical
Temp	23°C	Hum.	67%

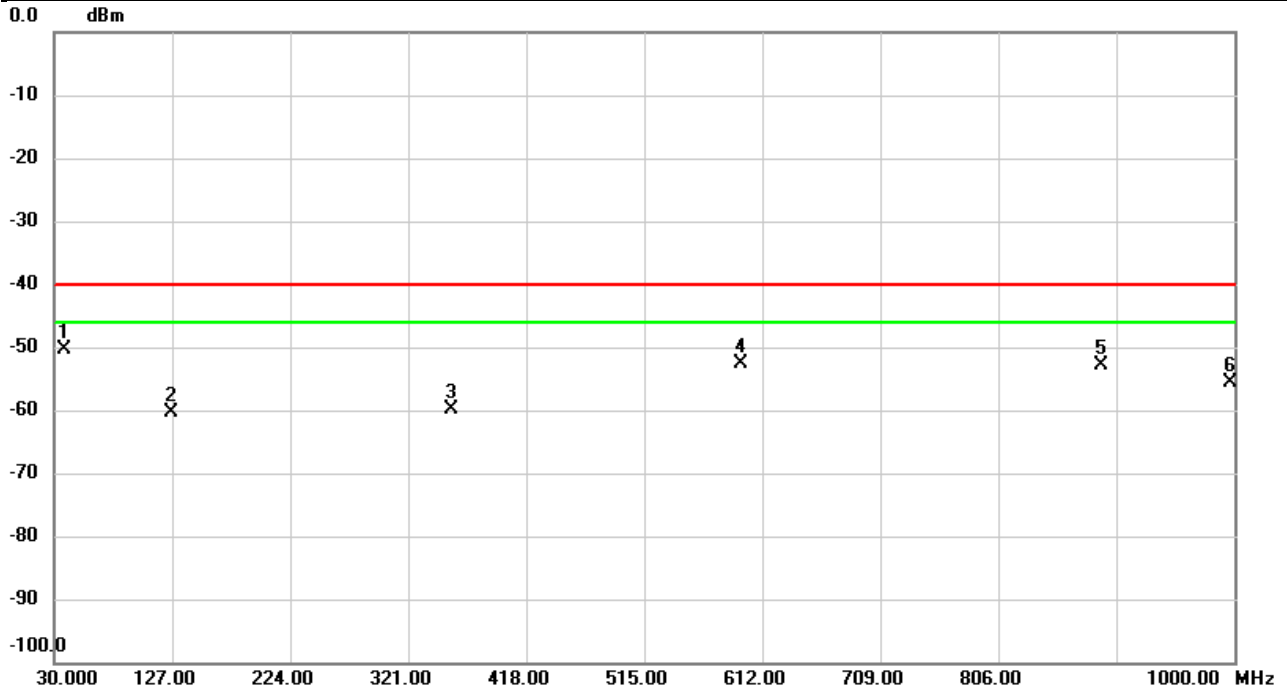


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		37.8893	-49.57	-8.89	-58.46	-40.00	-18.46	peak	
2		391.7130	-54.11	-2.41	-56.52	-40.00	-16.52	peak	
3		427.5383	-52.89	-1.75	-54.64	-40.00	-14.64	peak	
4	*	593.9903	-49.51	3.22	-46.29	-40.00	-6.29	peak	
5		891.0043	-60.29	6.39	-53.90	-40.00	-13.90	peak	
6		997.1223	-62.28	7.38	-54.90	-40.00	-14.90	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/21
Test Channel	CH641666	Polarization	Horizontal
Temp	23°C	Hum.	67%

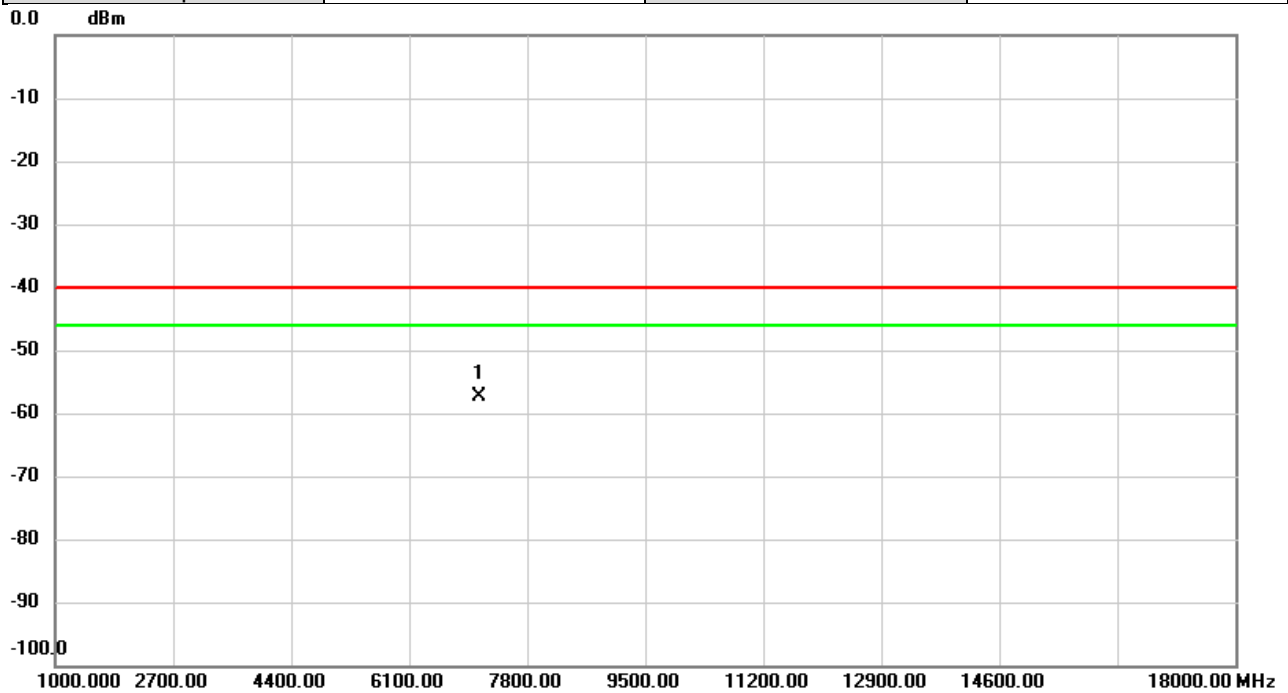


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	38.2450	-52.45	2.09	-50.36	-40.00	-10.36	peak	
2		126.5150	-53.57	-6.87	-60.44	-40.00	-20.44	peak	
3		356.0170	-57.44	-2.54	-59.98	-40.00	-19.98	peak	
4		593.9903	-52.66	0.12	-52.54	-40.00	-12.54	peak	
5		891.0366	-57.52	4.74	-52.78	-40.00	-12.78	peak	
6		997.0900	-61.65	6.15	-55.50	-40.00	-15.50	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH638000	Polarization	Vertical
Temp	21°C	Hum.	52%

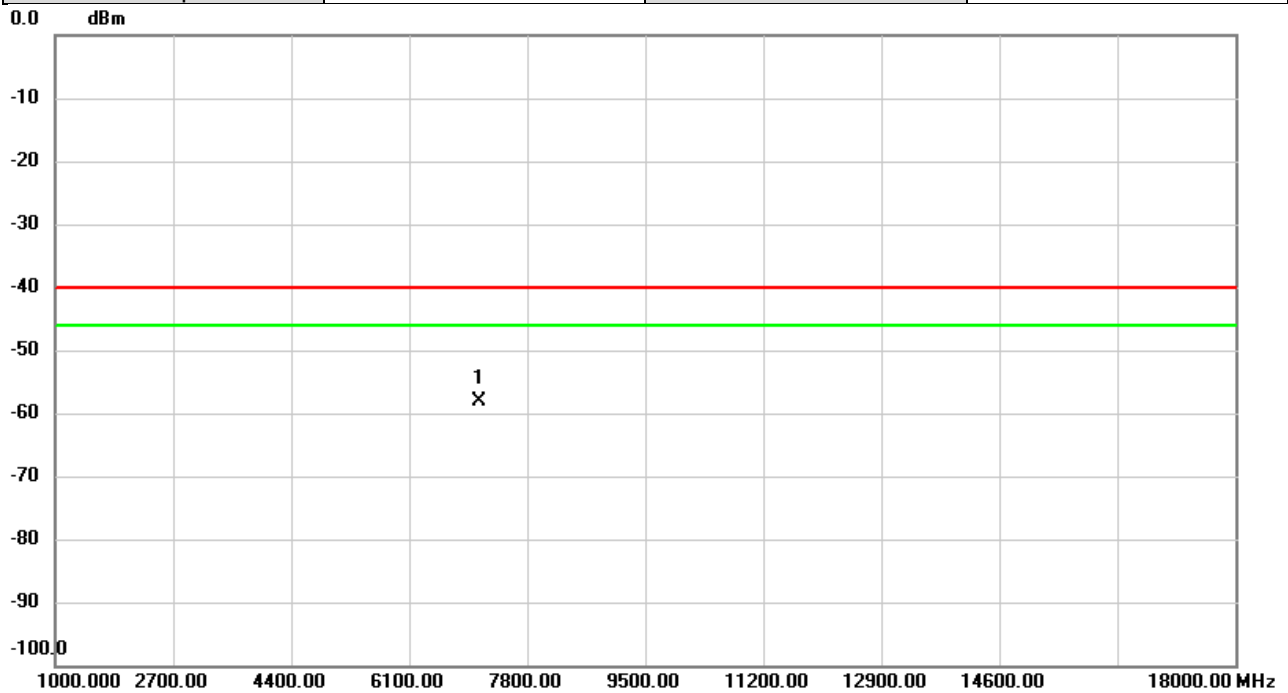


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7104.000	-75.91	18.44	-57.47	-40.00	-17.47	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH638000	Polarization	Horizontal
Temp	21°C	Hum.	52%

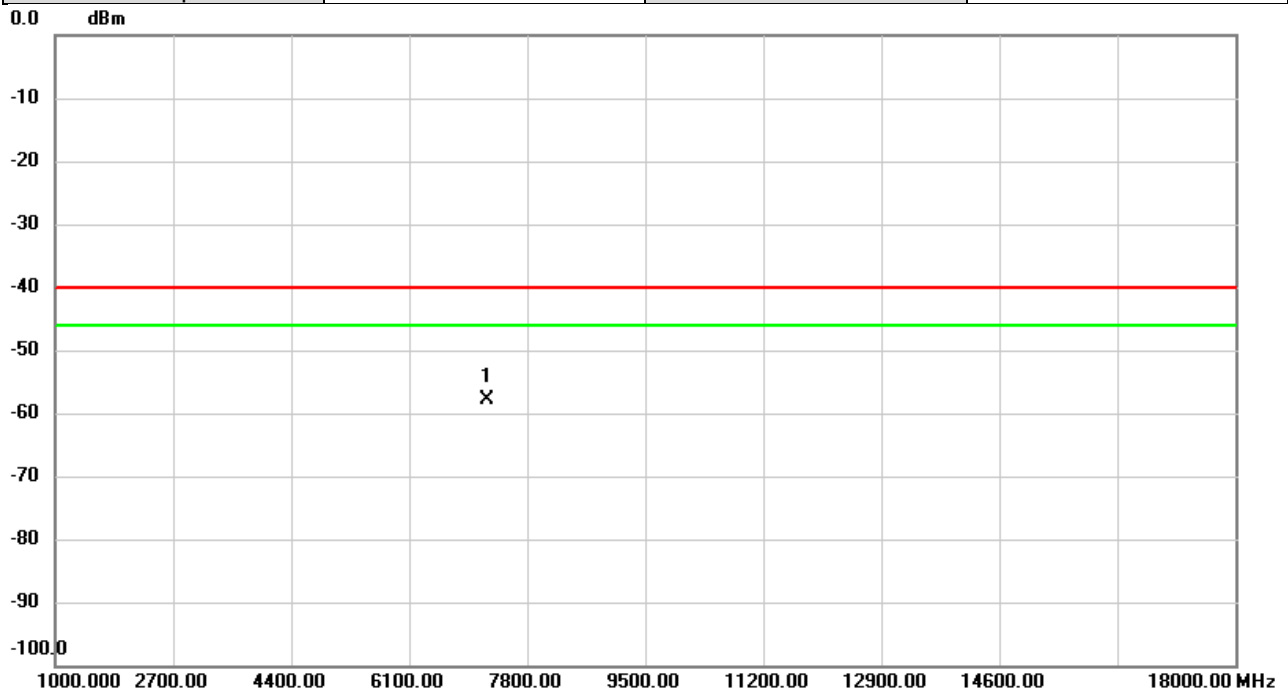


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7104.000	-76.57	18.39	-58.18	-40.00	-18.18	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH641666	Polarization	Vertical
Temp	21°C	Hum.	52%

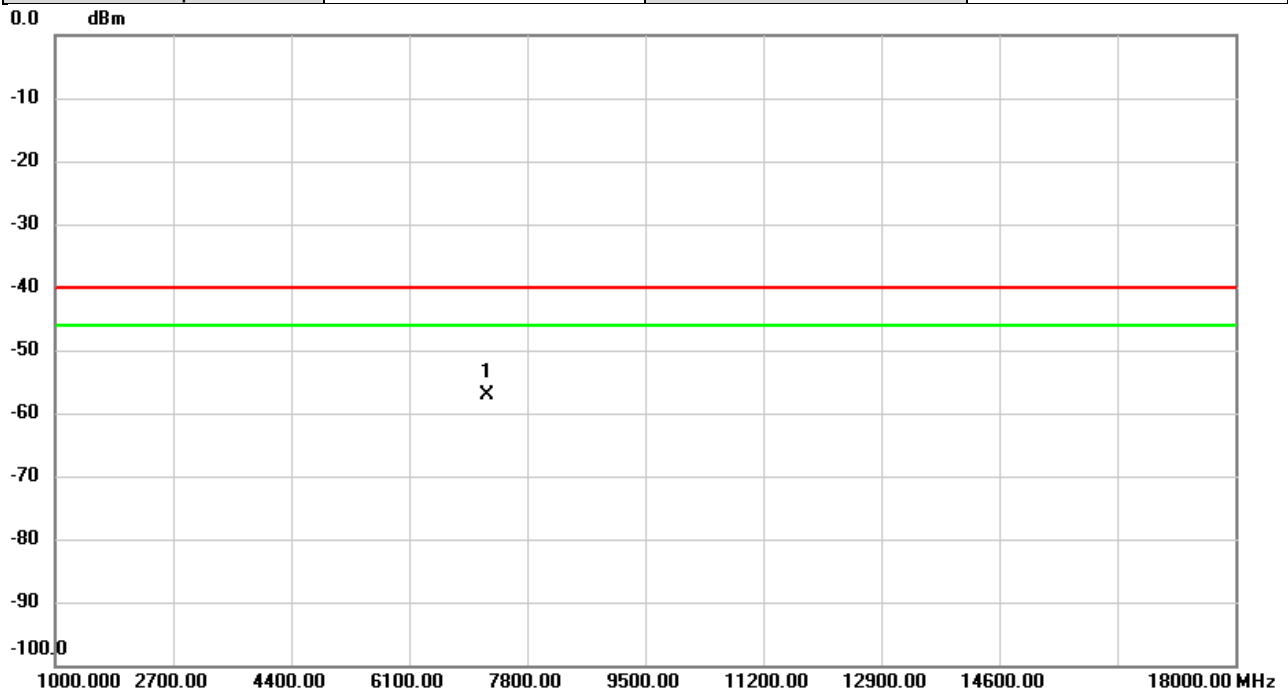


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7211.980	-75.91	17.96	-57.95	-40.00	-17.95	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH641666	Polarization	Horizontal
Temp	21°C	Hum.	52%

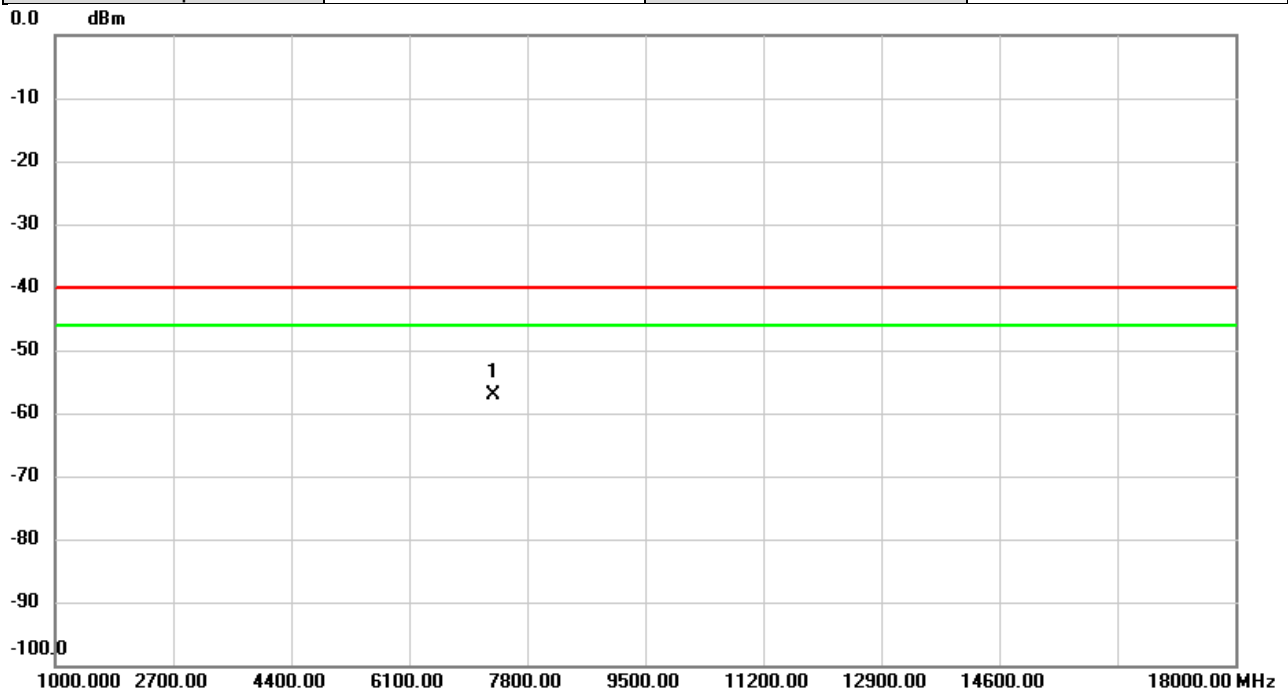


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7211.980	-74.96	17.74	-57.22	-40.00	-17.22	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH645332	Polarization	Vertical
Temp	21°C	Hum.	52%

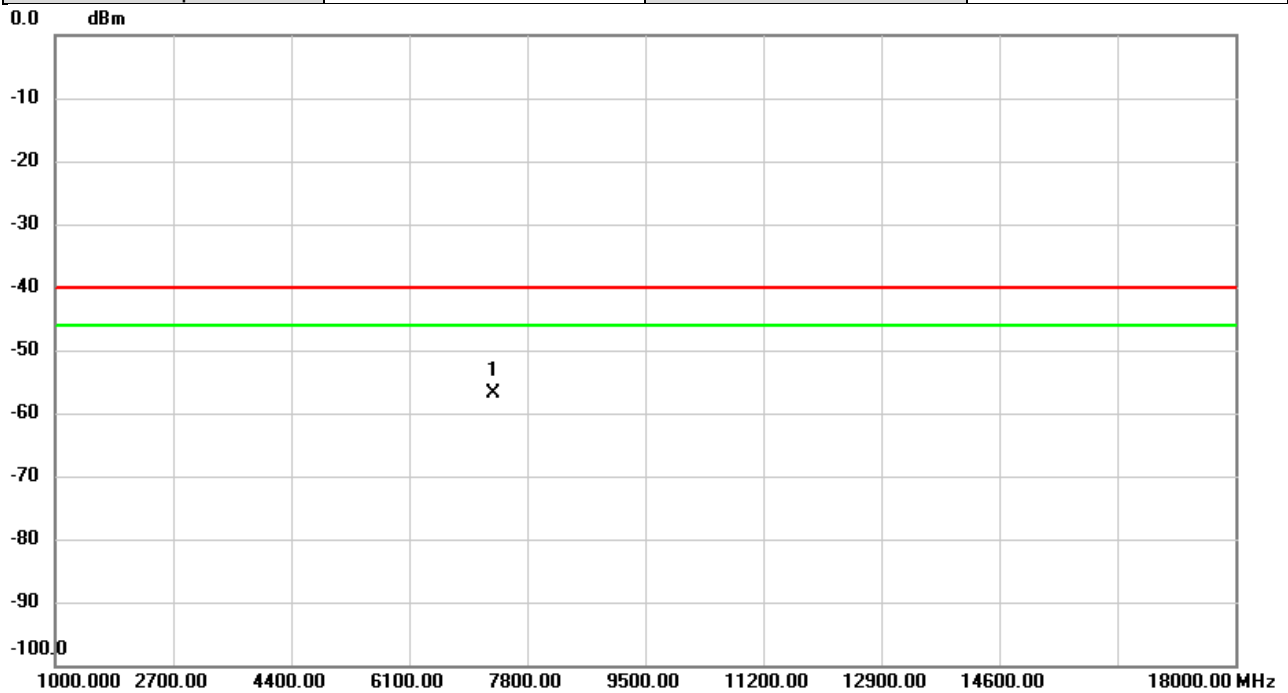


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7321.960	-75.00	17.77	-57.23	-40.00	-17.23	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/13
Test Channel	CH645332	Polarization	Horizontal
Temp	21°C	Hum.	52%

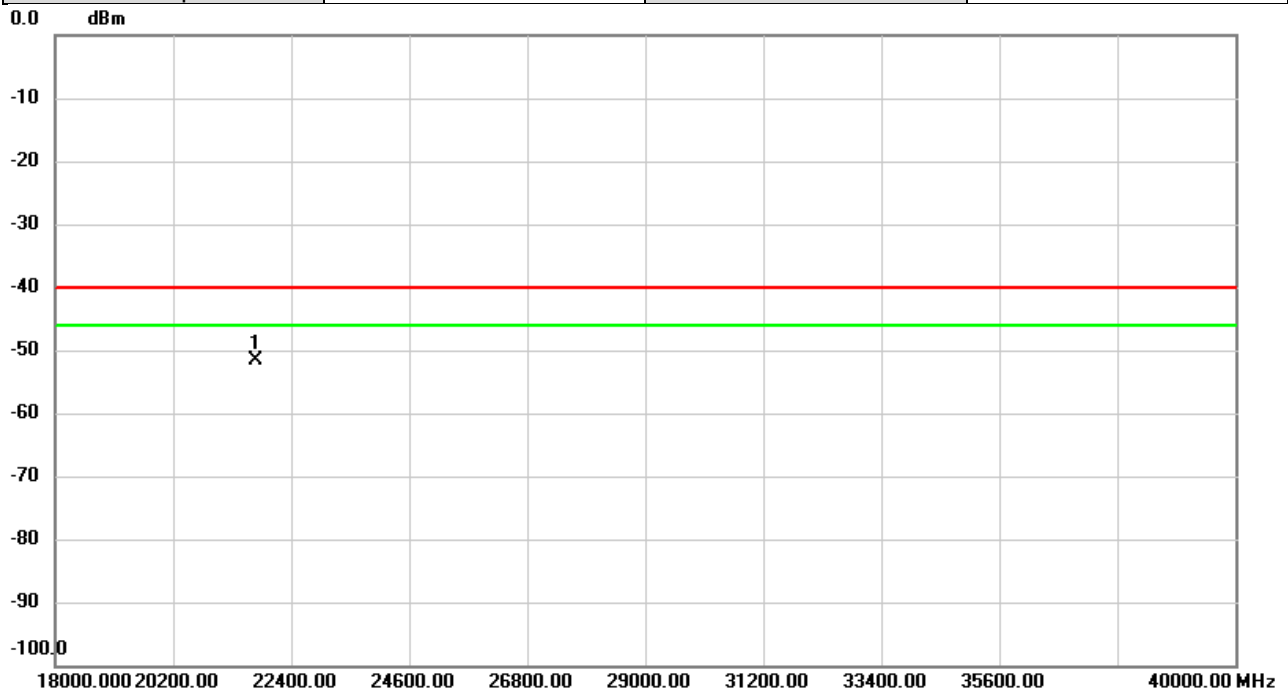


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7321.960	-74.67	17.72	-56.95	-40.00	-16.95	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/22
Test Channel	CH641666	Polarization	Vertical
Temp	22°C	Hum.	66%

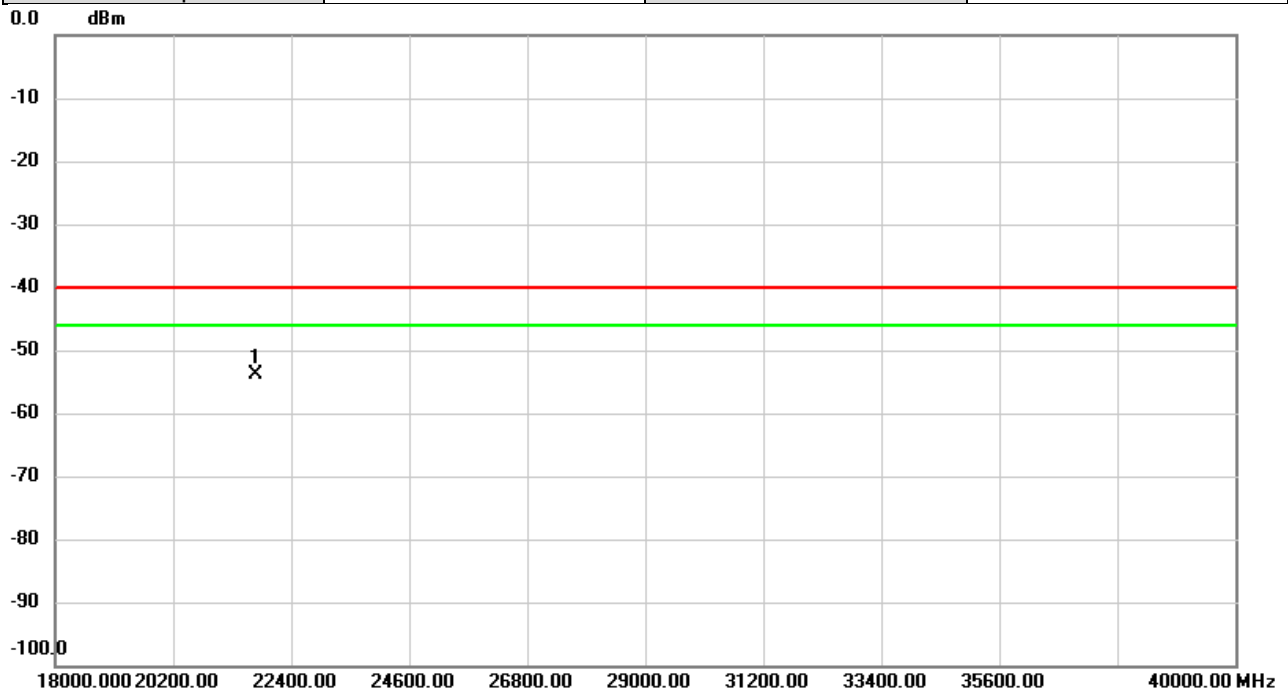


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.00	-55.31	3.61	-51.70	-40.00	-11.70	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/22
Test Channel	CH641666	Polarization	Horizontal
Temp	22°C	Hum.	66%

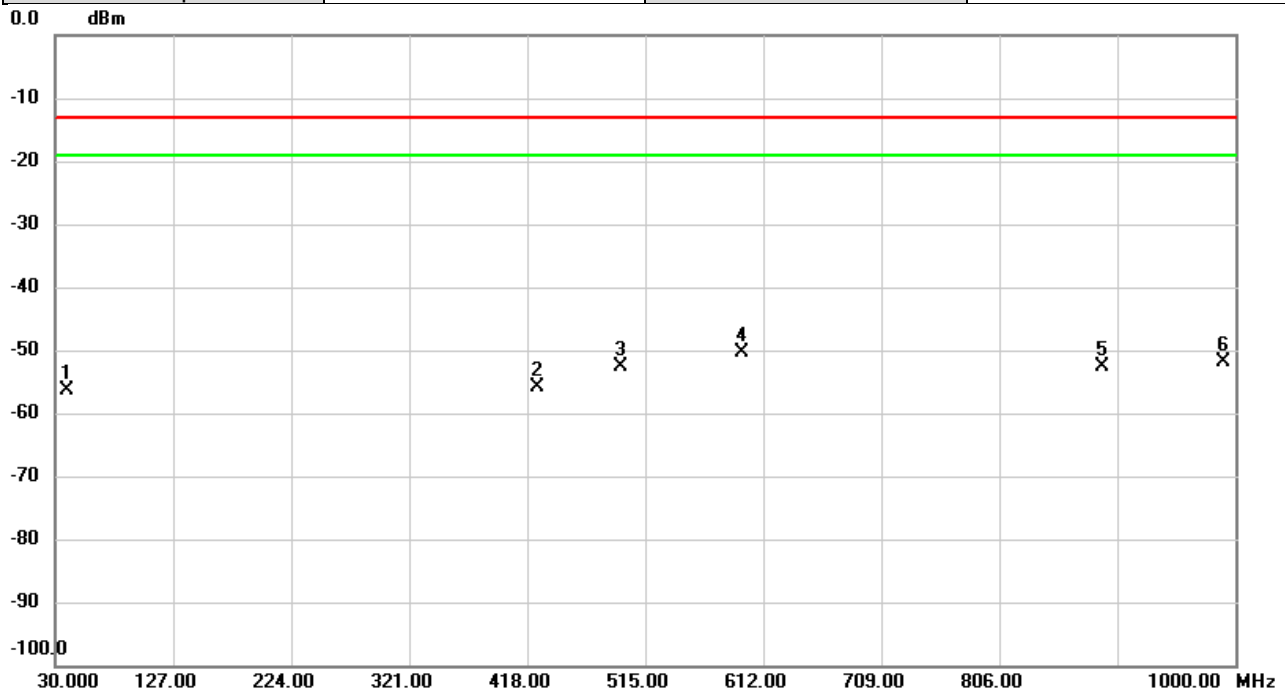


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.00	-56.07	2.15	-53.92	-40.00	-13.92	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Vertical
Temp	25°C	Hum.	63%

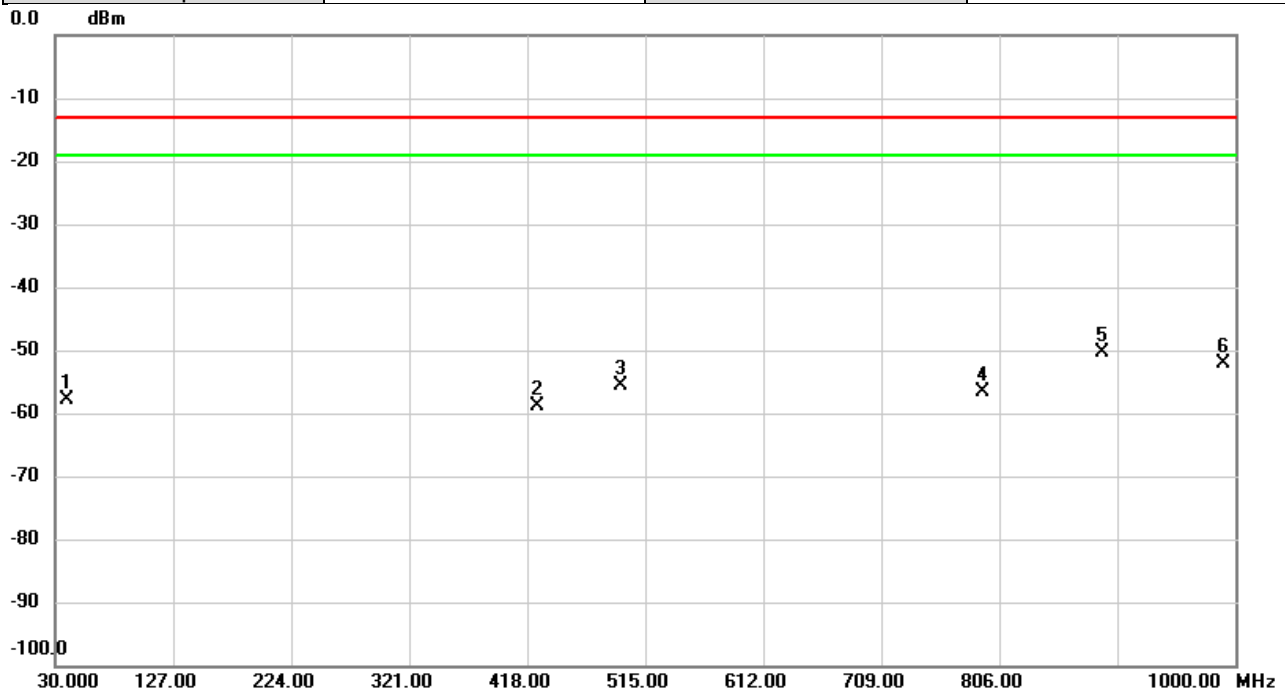


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		39.5707	-47.88	-8.58	-56.46	-13.00	-43.46	peak	
2		427.0210	-54.14	-1.76	-55.90	-13.00	-42.90	peak	
3		495.0180	-52.60	-0.07	-52.67	-13.00	-39.67	peak	
4	*	593.9903	-53.57	3.22	-50.35	-13.00	-37.35	peak	
5		891.0043	-59.01	6.39	-52.62	-13.00	-39.62	peak	
6		989.9767	-59.14	7.31	-51.83	-13.00	-38.83	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Horizontal
Temp	25°C	Hum.	63%

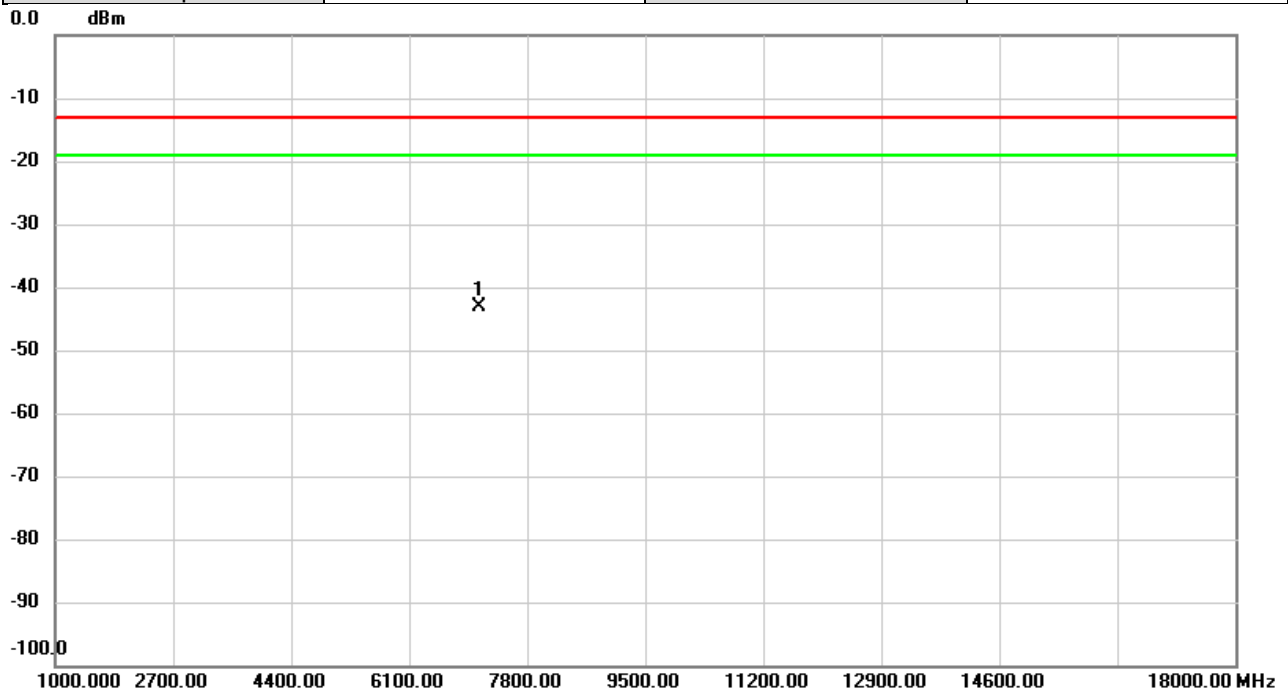


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		39.6030	-59.87	1.97	-57.90	-13.00	-44.90	peak	
2		426.6330	-56.72	-2.19	-58.91	-13.00	-45.91	peak	
3		495.0503	-53.99	-1.52	-55.51	-13.00	-42.51	peak	
4		791.9996	-60.54	3.95	-56.59	-13.00	-43.59	peak	
5	*	891.0043	-55.11	4.74	-50.37	-13.00	-37.37	peak	
6		990.0413	-58.11	6.04	-52.07	-13.00	-39.07	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH638000	Polarization	Vertical
Temp	25°C	Hum.	63%

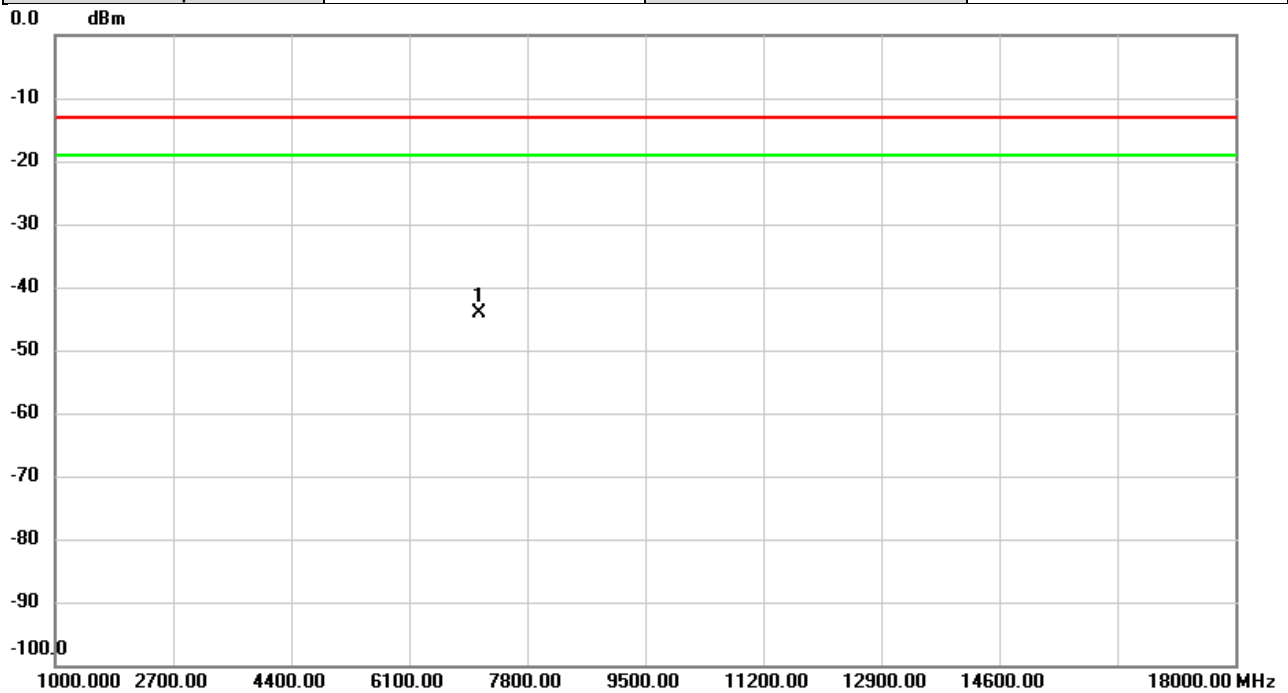


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7100.000	-61.73	18.49	-43.24	-13.00	-30.24	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH638000	Polarization	Horizontal
Temp	25°C	Hum.	63%

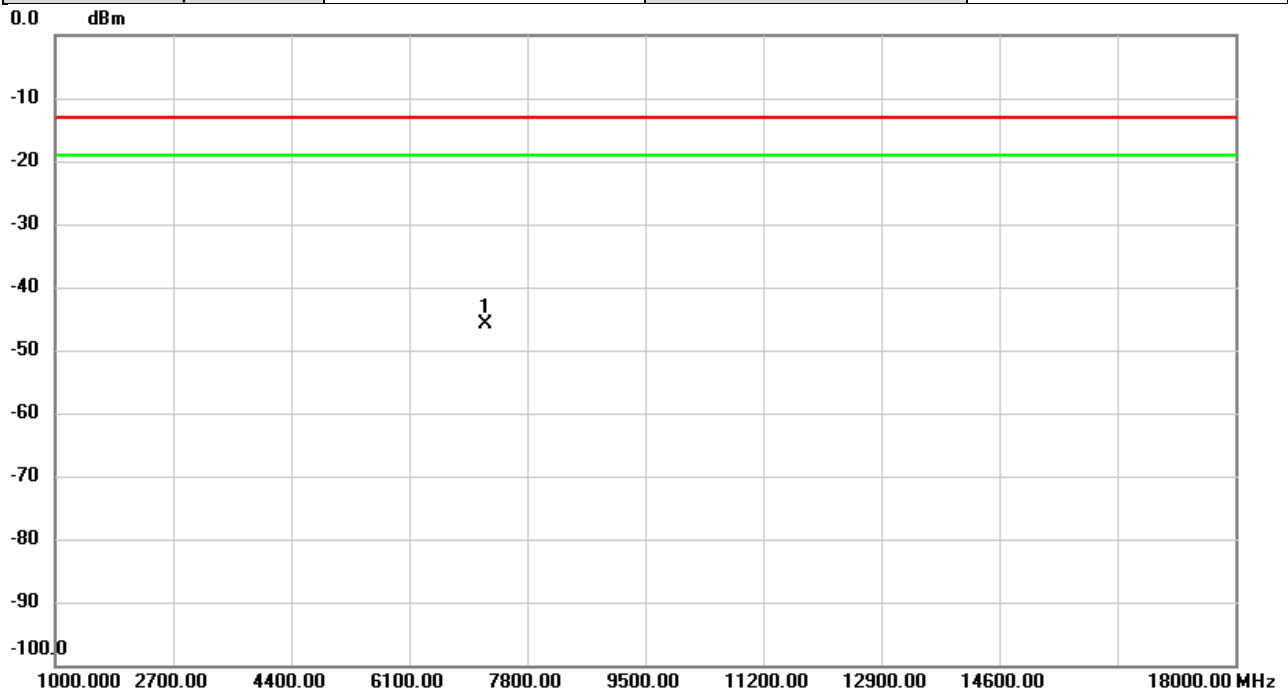


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7100.000	-62.54	18.45	-44.09	-13.00	-31.09	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Vertical
Temp	25°C	Hum.	63%

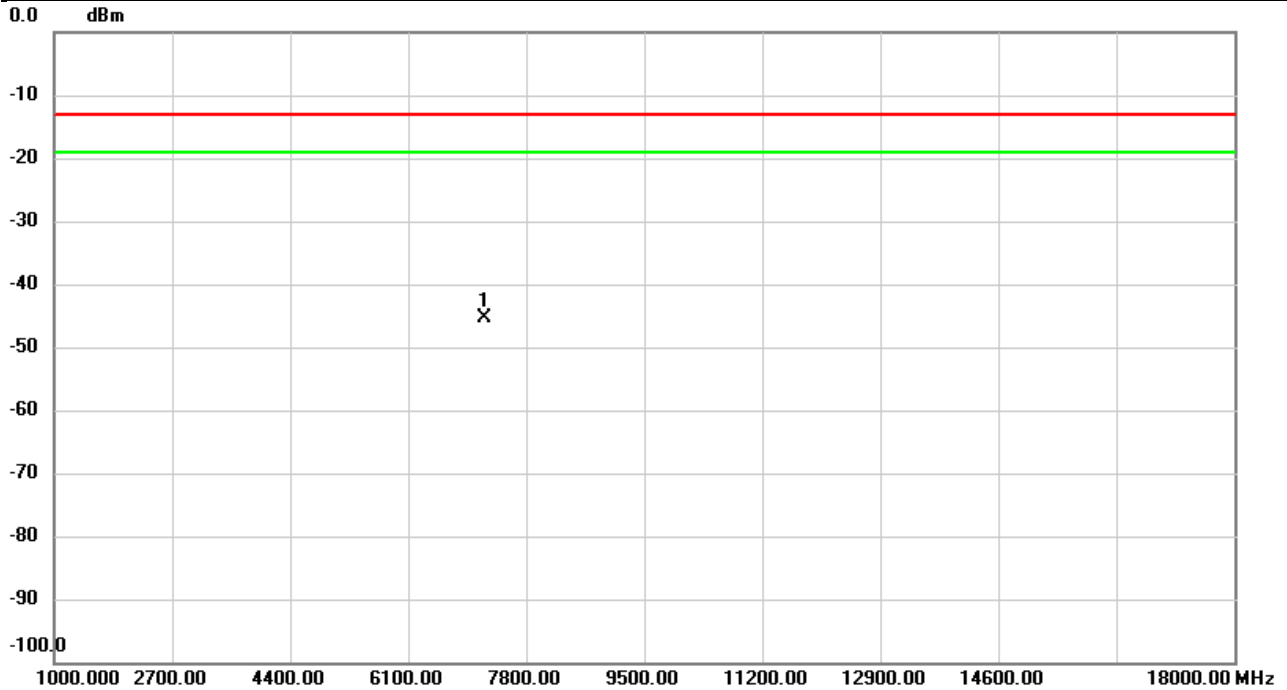


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7209.980	-63.82	17.97	-45.85	-13.00	-32.85	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Horizontal
Temp	25°C	Hum.	63%

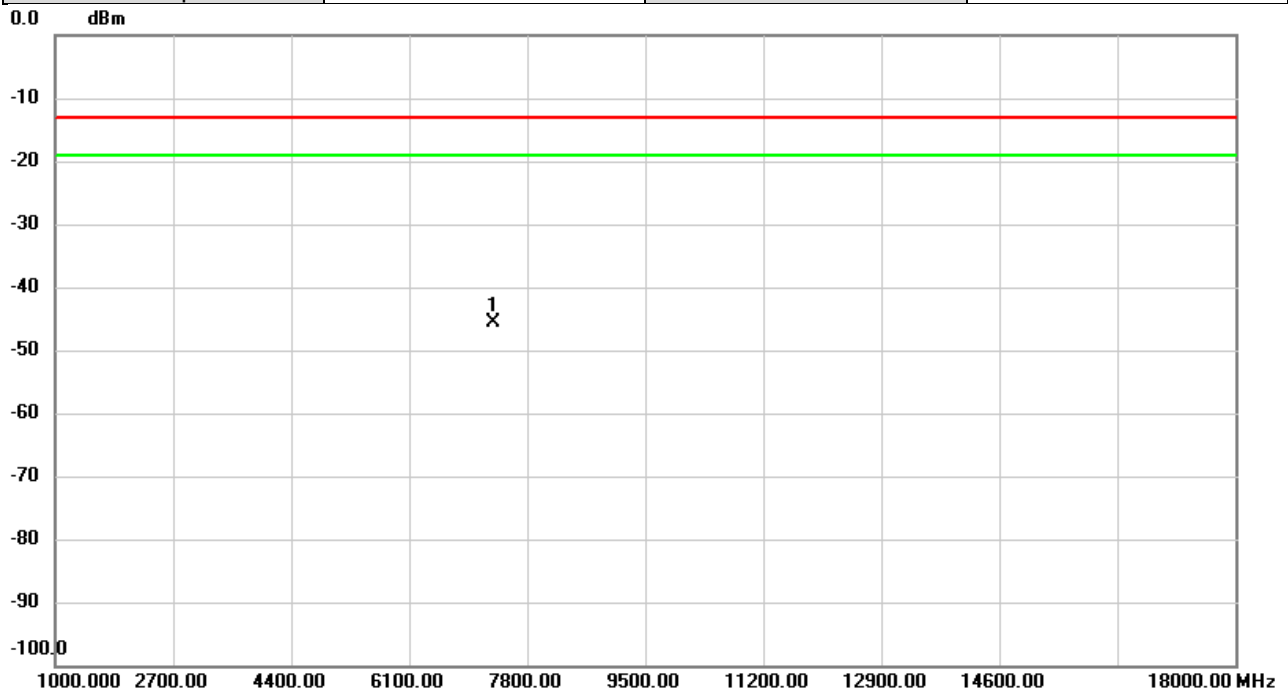


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7209.980	-63.15	17.76	-45.39	-13.00	-32.39	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH645332	Polarization	Vertical
Temp	25°C	Hum.	63%

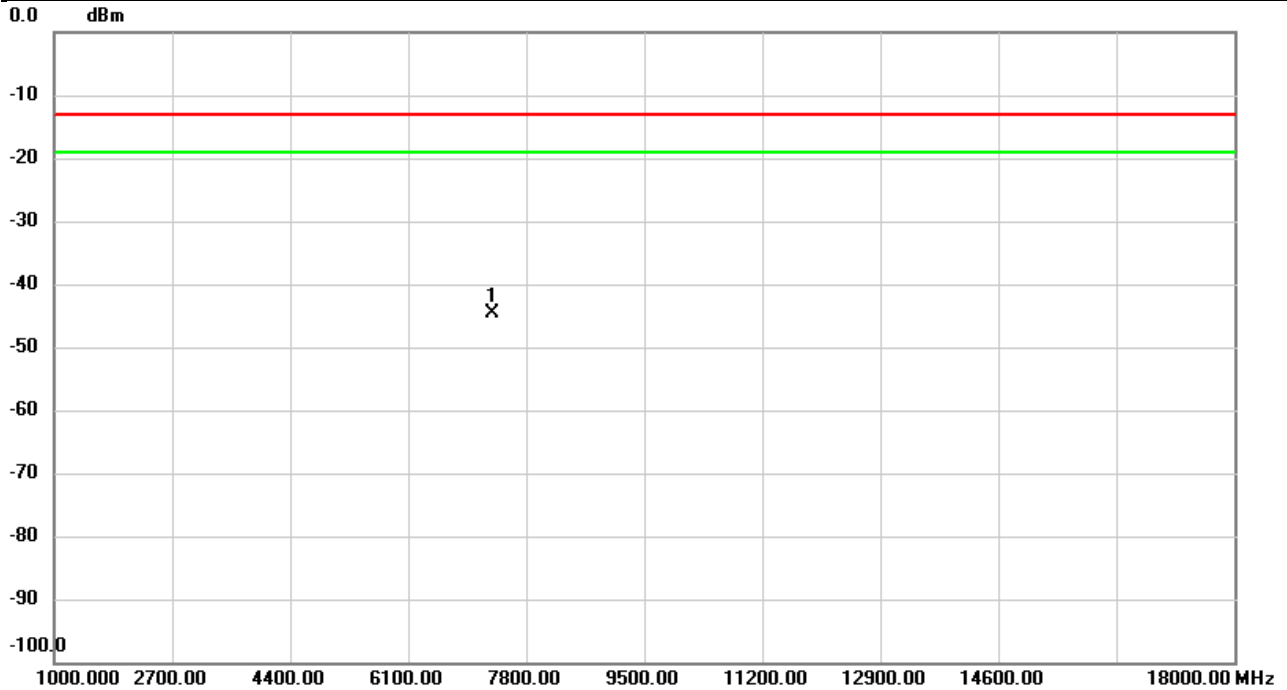


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7319.960	-63.41	17.79	-45.62	-13.00	-32.62	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH645332	Polarization	Horizontal
Temp	25°C	Hum.	63%

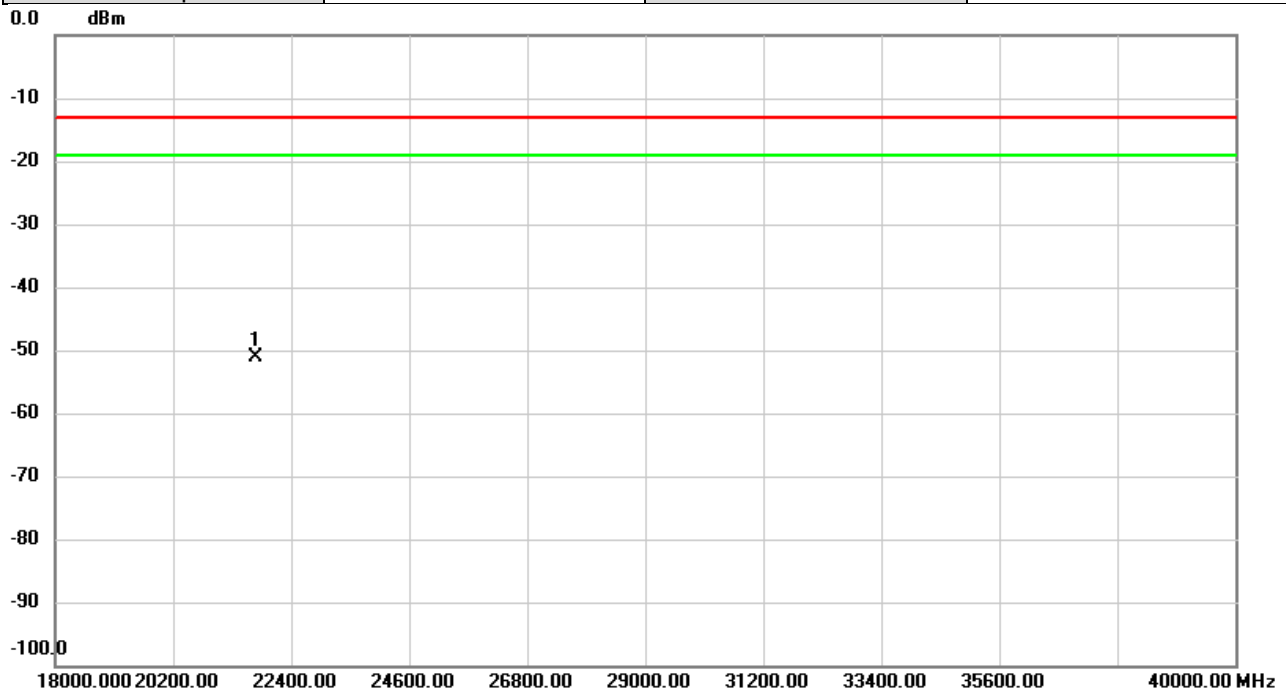


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7319.960	-62.41	17.75	-44.66	-13.00	-31.66	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Vertical
Temp	25°C	Hum.	63%

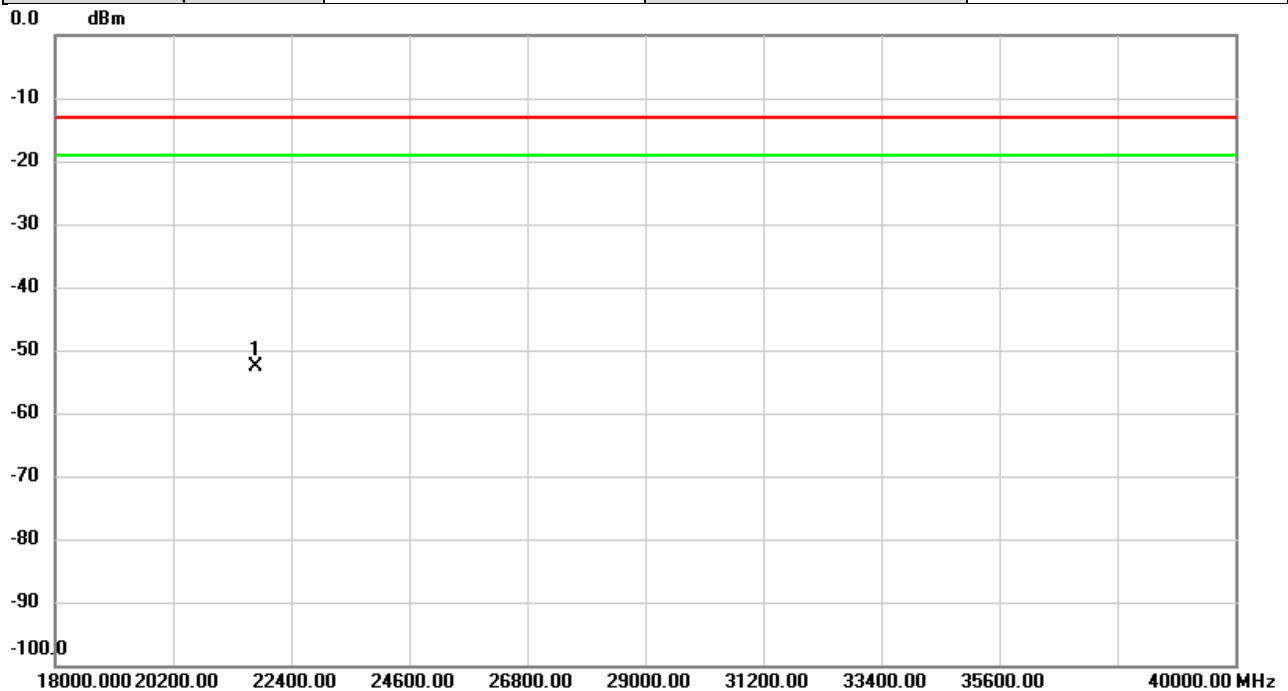


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.00	-54.61	3.61	-51.00	-13.00	-38.00	peak	

REMARKS:

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

Test Mode	SRS n48	Test Date	2026/1/28
Test Channel	CH641666	Polarization	Horizontal
Temp	25°C	Hum.	63%



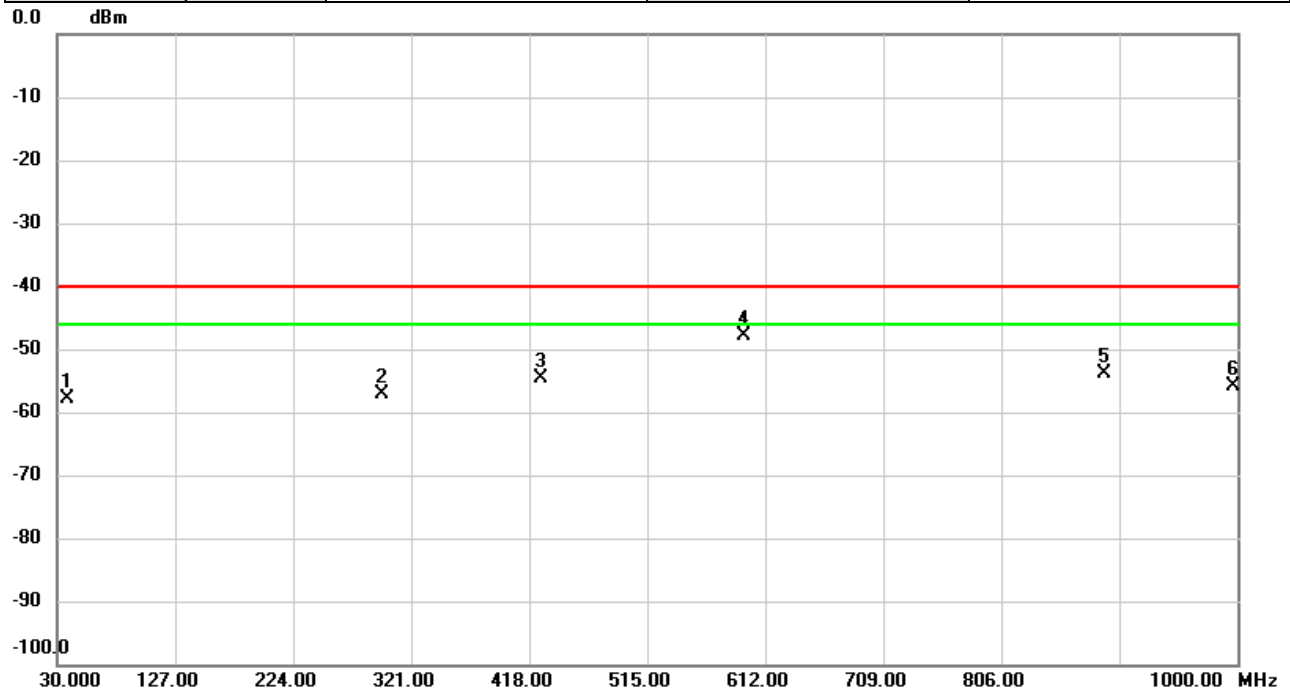
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.00	-54.79	2.15	-52.64	-13.00	-39.64	peak	

REMARKS:

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

For UL MIMO:

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Vertical
Temp	24°C	Hum.	52%

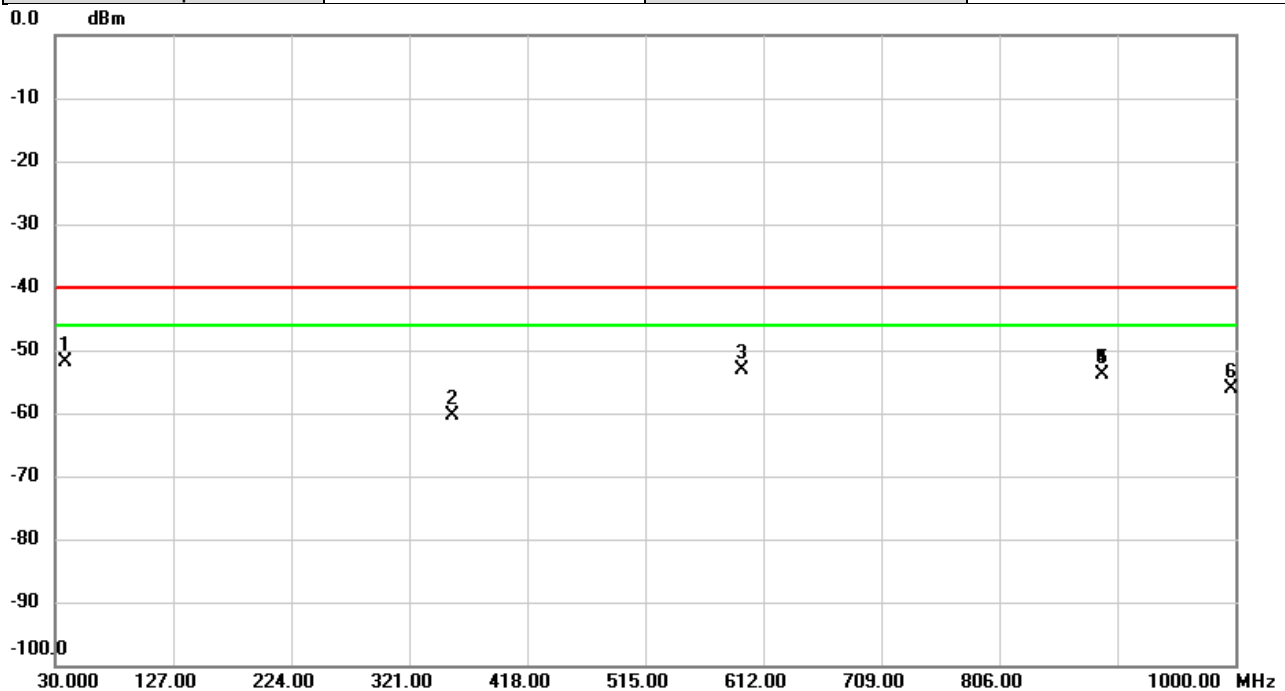


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		37.8892	-49.07	-8.89	-57.96	-40.00	-17.96	peak	
2		297.0086	-53.70	-3.35	-57.05	-40.00	-17.05	peak	
3		427.5382	-52.89	-1.75	-54.64	-40.00	-14.64	peak	
4	*	593.9903	-51.01	3.22	-47.79	-40.00	-7.79	peak	
5		891.0040	-60.29	6.39	-53.90	-40.00	-13.90	peak	
6		997.1222	-63.28	7.38	-55.90	-40.00	-15.90	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Horizontal
Temp	24°C	Hum.	52%

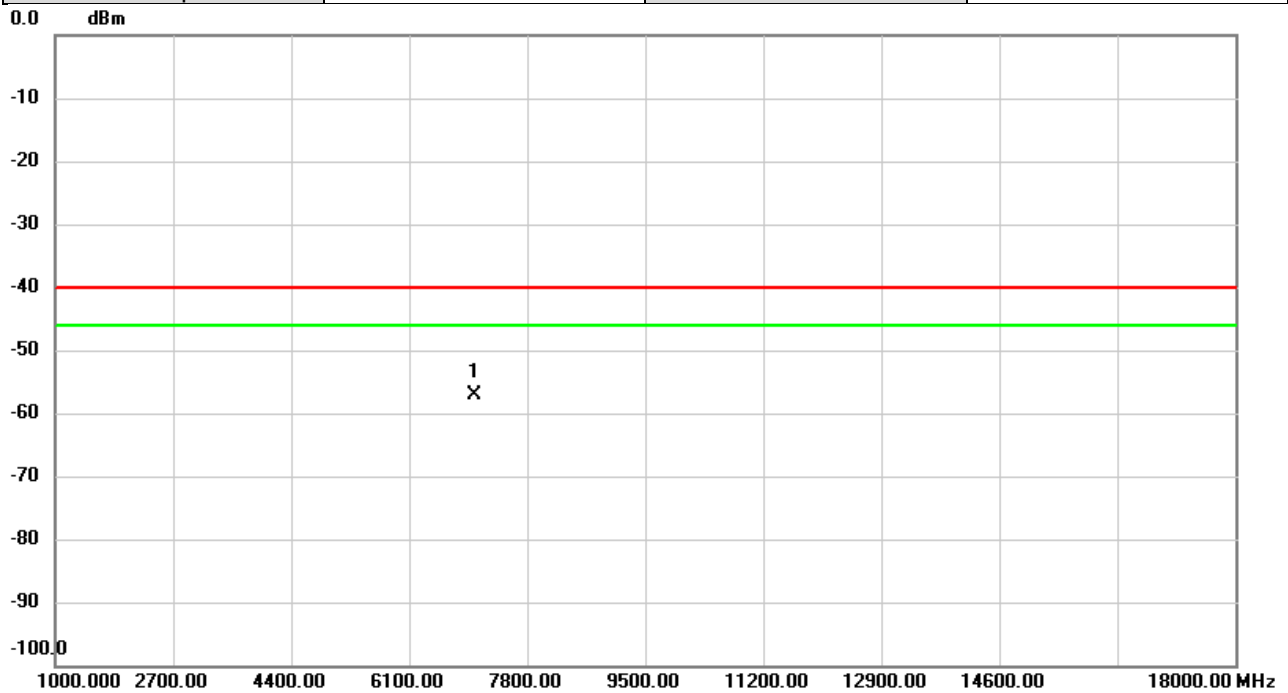


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	38.2450	-53.95	2.09	-51.86	-40.00	-11.86	peak	
2		356.0170	-57.94	-2.54	-60.48	-40.00	-20.48	peak	
3		593.9903	-53.16	0.12	-53.04	-40.00	-13.04	peak	
4		891.0366	-58.52	4.74	-53.78	-40.00	-13.78	peak	
5		891.0366	-58.52	4.74	-53.78	-40.00	-13.78	peak	
6		997.0900	-62.15	6.15	-56.00	-40.00	-16.00	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH638000	Polarization	Vertical
Temp	24°C	Hum.	52%

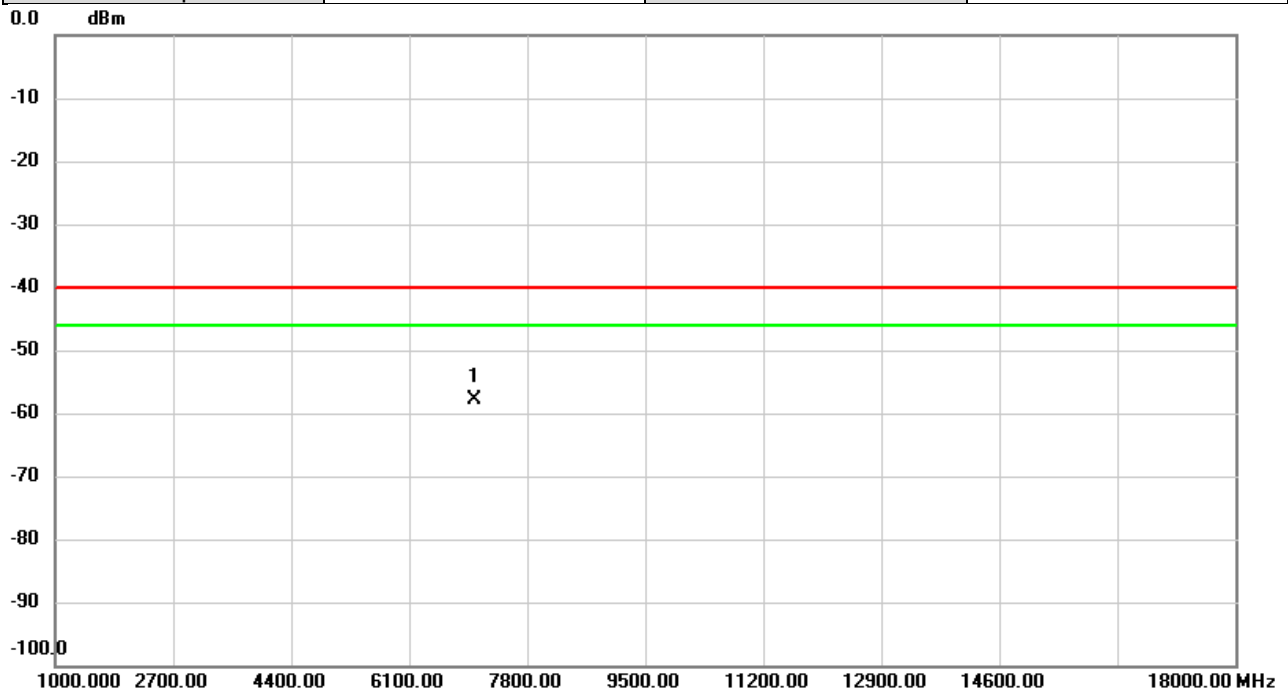


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7040.000	-75.32	18.25	-57.07	-40.00	-17.07	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH638000	Polarization	Horizontal
Temp	24°C	Hum.	52%

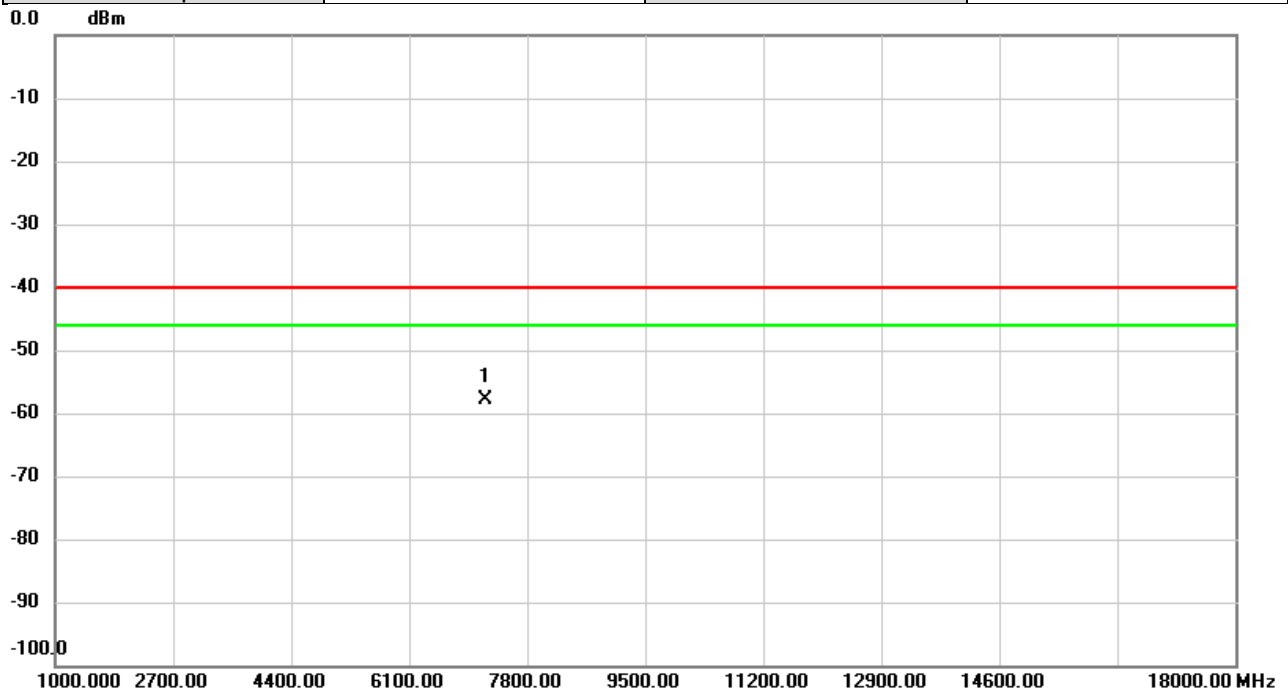


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7040.000	-75.73	17.92	-57.81	-40.00	-17.81	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Vertical
Temp	24°C	Hum.	52%

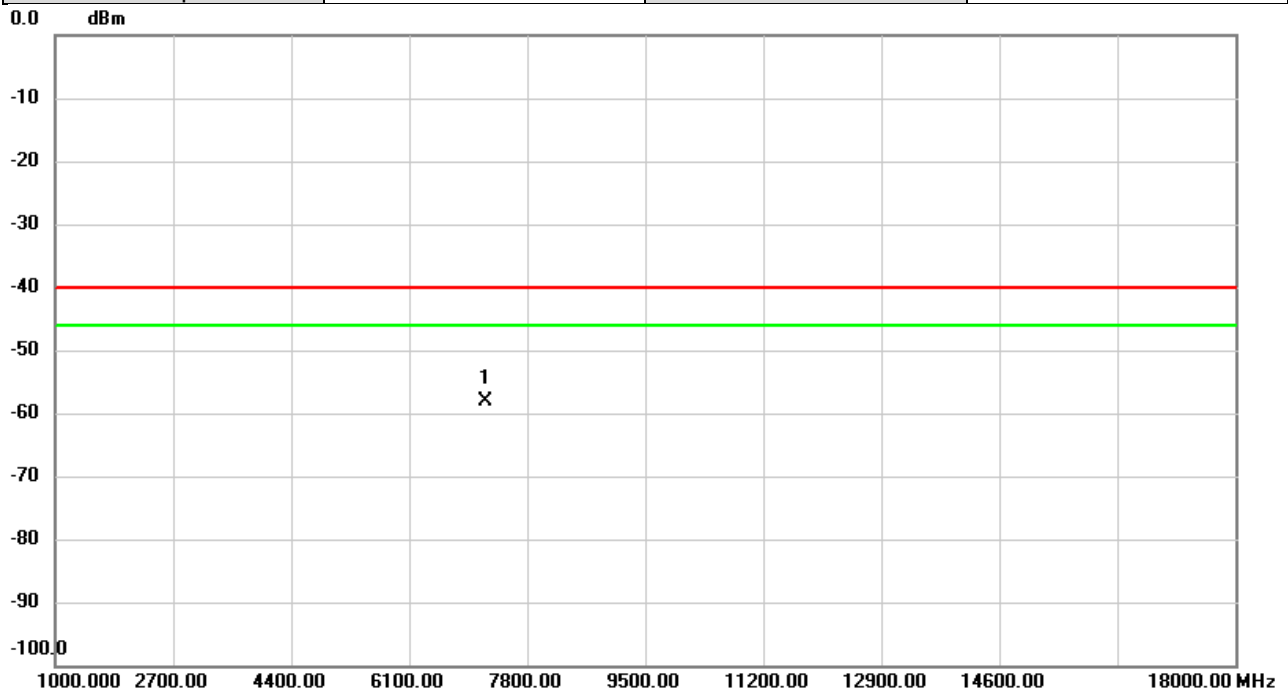


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7209.980	-75.92	17.97	-57.95	-40.00	-17.95	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Horizontal
Temp	24°C	Hum.	52%

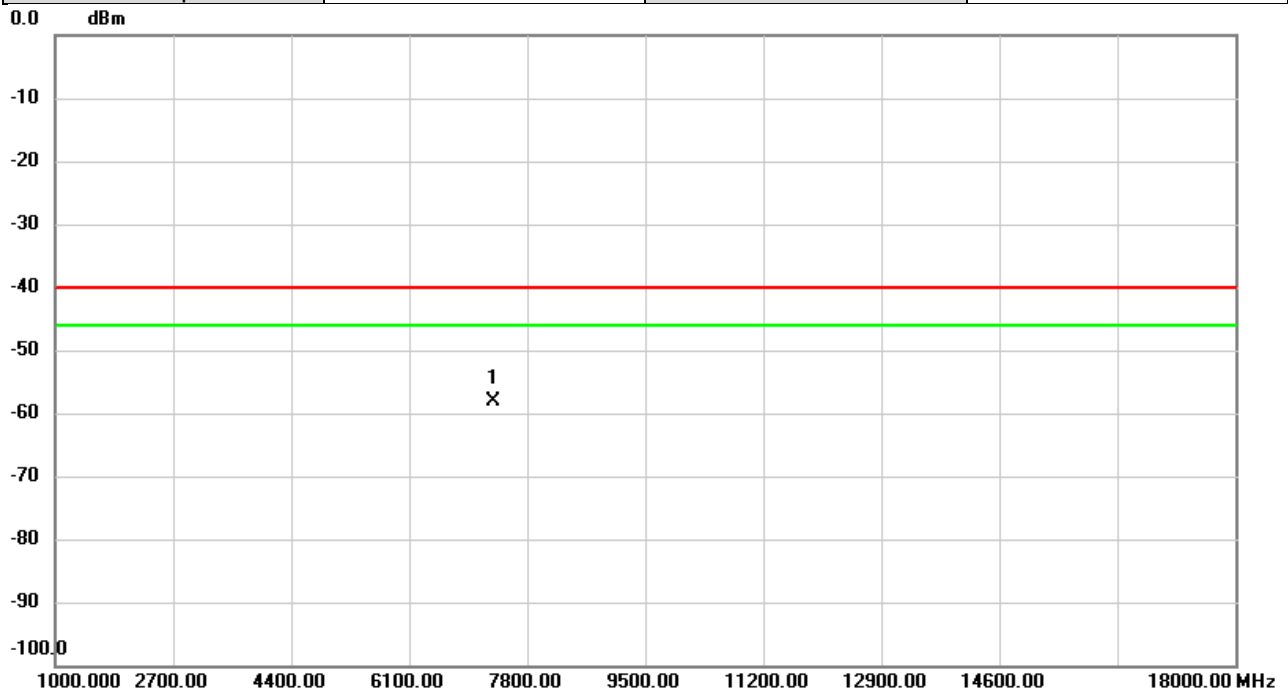


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7209.980	-75.98	17.76	-58.22	-40.00	-18.22	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH645332	Polarization	Vertical
Temp	24°C	Hum.	52%

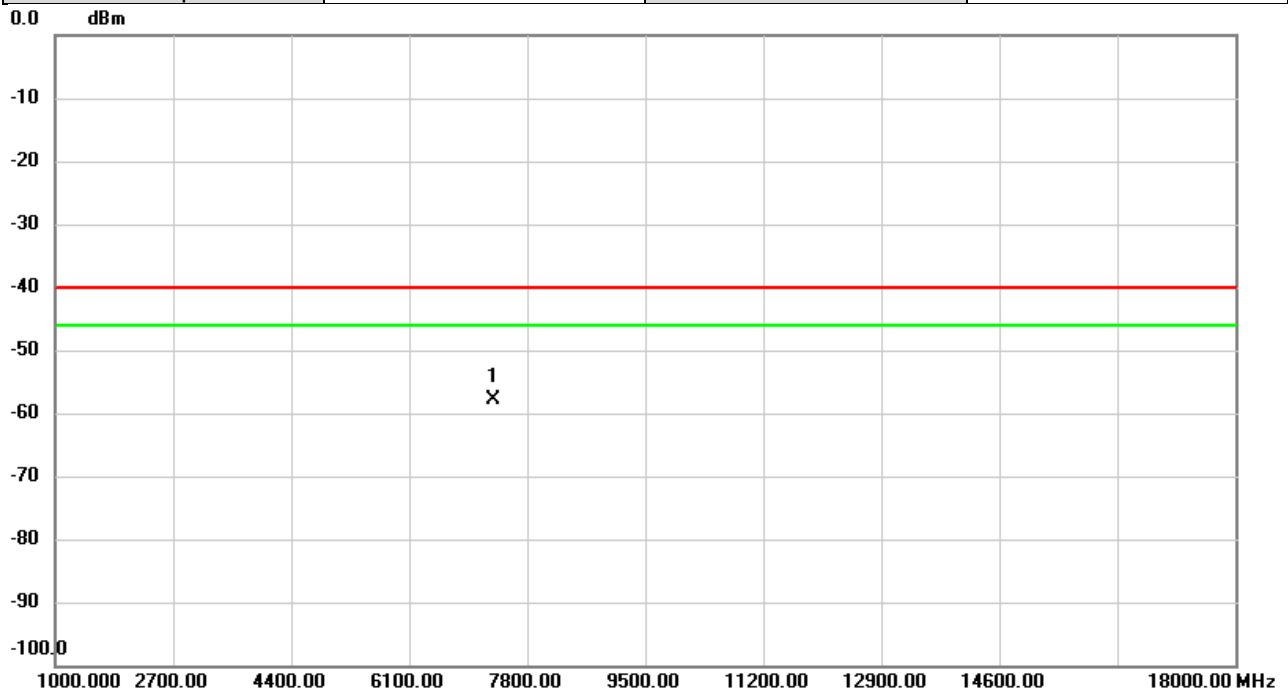


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7319.960	-75.93	17.79	-58.14	-40.00	-18.14	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH645332	Polarization	Horizontal
Temp	24°C	Hum.	52%

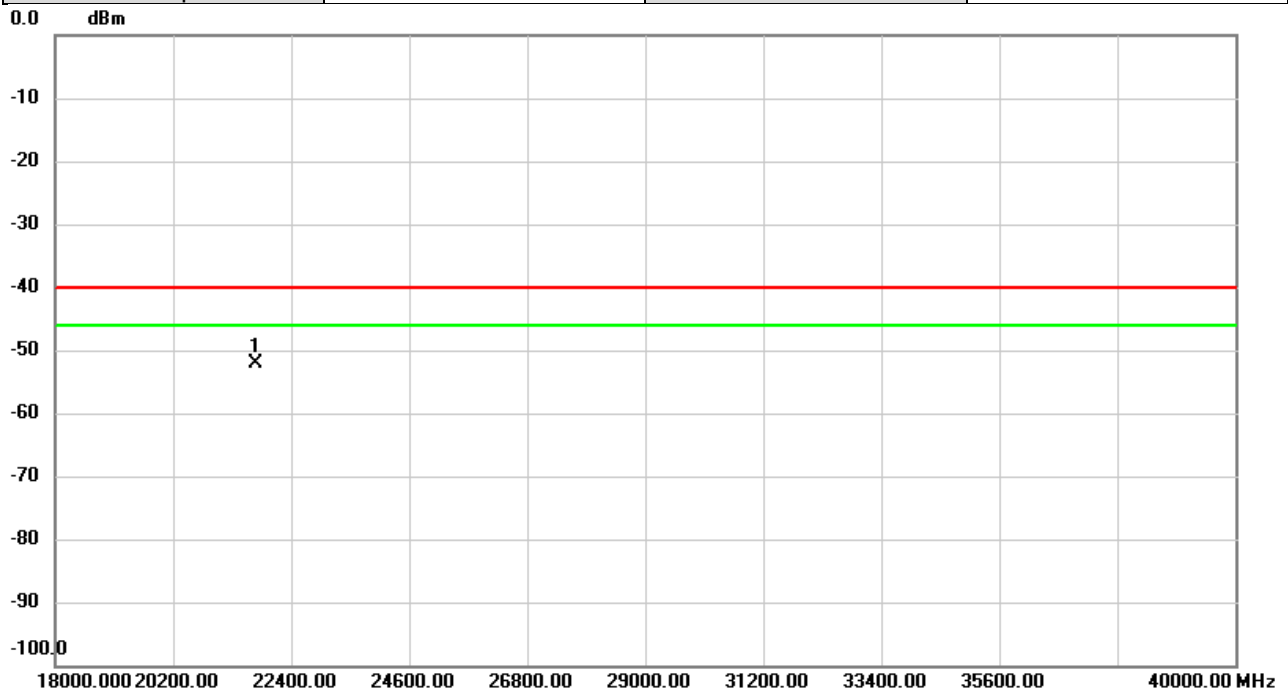


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	7319.960	-75.71	17.75	-57.96	-40.00	-17.96	RMS	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Vertical
Temp	24°C	Hum.	52%

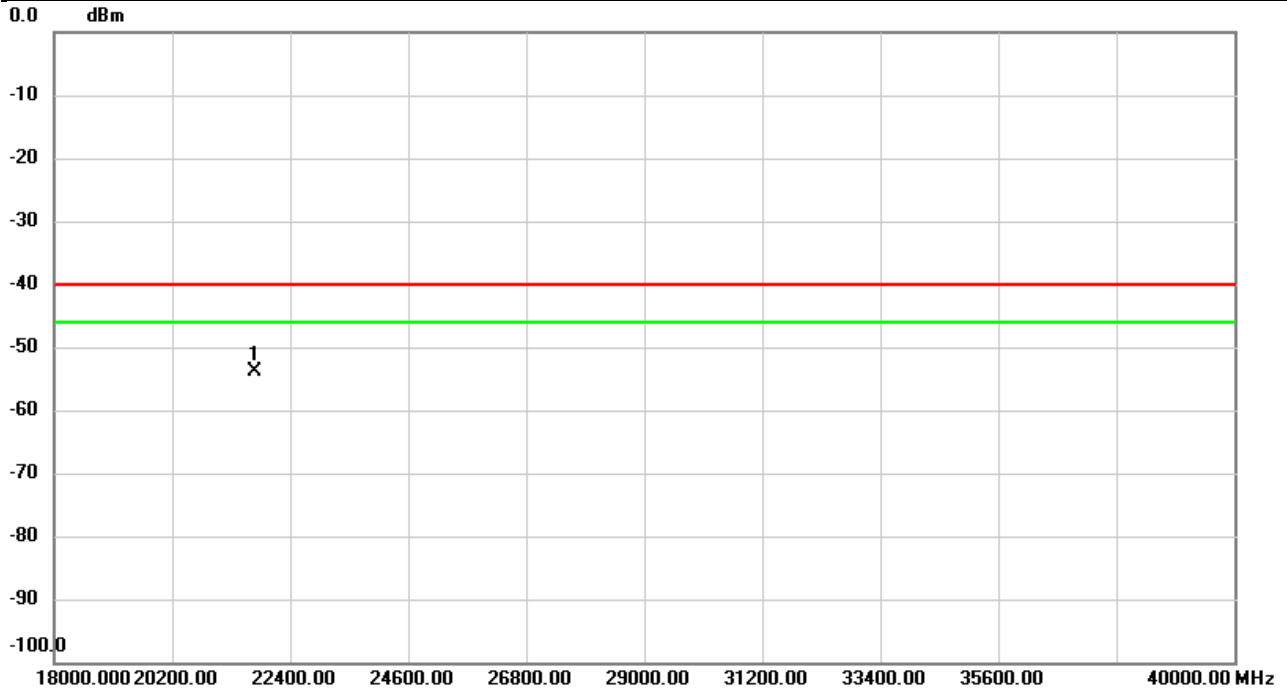


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.94	-55.81	3.61	-52.20	-40.00	-12.20	peak	

REMARKS:

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

Test Mode	NR n48	Test Date	2026/1/27
Test Channel	CH641666	Polarization	Horizontal
Temp	24°C	Hum.	52%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	21749.94	-56.07	2.15	-53.92	-40.00	-13.92	peak	

REMARKS:

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

End of Test Report