

FCC Radio Test Report

FCC ID: 2AJN7-TP00160AL

Report No. : BTL-FCCP-1-2311T076
Equipment : Notebook Computer
Model Name : TP00160A
Brand Name : Lenovo
Applicant : LC Future Center
Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan
Manufacturer : Lenovo PC HK Limited
Address : 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R. China

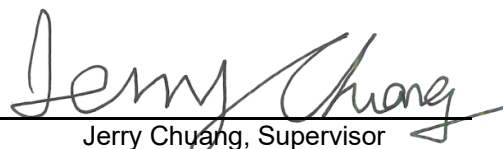
Radio Function : WCDMA Band V, LTE Band 5, 26

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

Date of Receipt : 2023/11/16
Date of Test : 2023/11/28 ~ 2023/12/7
Issued Date : 2024/3/27

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

Prepared by

: 
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Approved by

: 
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Declaration

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

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

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

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

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

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

Limitation

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

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

CONTENTS

1	SUMMARY OF TEST RESULTS	5
1.1	REFERENCE TEST GUIDANCE	6
1.2	TEST FACILITY	6
1.3	MEASUREMENT UNCERTAINTY	6
1.4	TEST ENVIRONMENT CONDITIONS	6
2	GENERAL INFORMATION	7
2.1	DESCRIPTION OF EUT	7
2.2	TEST MODES	9
2.3	BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.4	SUPPORT UNITS	10
3	EFFECTIVE RADIATED POWER MEASUREMENT	11
3.1	LIMIT	11
3.2	TEST PROCEDURE	11
3.3	DEVIATION FROM TEST STANDARD	11
3.4	TEST SETUP	11
3.5	EUT OPERATING CONDITIONS	11
3.6	TEST RESULT	11
4	RADIATED SPURIOUS EMISSIONS MEASUREMENT	12
4.1	LIMIT	12
4.2	TEST PROCEDURE	12
4.3	DEVIATION FROM TEST STANDARD	12
4.4	TEST SETUP	13
4.5	EUT OPERATING CONDITIONS	13
4.6	TEST RESULT	13
5	LIST OF MEASURING EQUIPMENTS	14
6	EUT TEST PHOTO	15
7	EUT PHOTOS	15
APPENDIX A	EFFECTIVE RADIATED POWER	16
APPENDIX B	RADIATED SPURIOUS EMISSIONS	27

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2311T076	R00	Original Report.	2024/1/15	Invalid
BTL-FCCP-1-2311T076	R01	Revised Typo.	2024/3/22	Invalid
BTL-FCCP-1-2311T076	R02	Revised Equipment Model Name.	2024/3/25	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
2.1046 22.913(a)(5)	Effective Radiated Power	APPENDIX A	Pass	-----
22.913(d)	Peak To Average Ratio	NOTE (3)	Pass	-----
2.1049	Occupied Bandwidth	NOTE (3)	Pass	-----
2.1051 22.917(a)	Band Edge Measurements	NOTE (3)	Pass	-----
2.1051 22.917(a)	Conducted Spurious Emissions	NOTE (3)	Pass	-----
2.1055 22.355	Frequency Stability	NOTE (3)	Pass	-----
2.1053 22.917(a)	Radiated Spurious Emissions	APPENDIX B	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This item is demonstrated to full compliance referring to the test report number SEWM2304000133RG01 of the integrated module (model name: EM061K-GL, FCC ID: XMR2023EM061KGL), according to KDB 996369 D02 Q1 a) 2).
- (4) The ac power lines conducted emissions and radiated emissions are tested to demonstrate full compliance of both module integrated into the host and host itself.

1.1 REFERENCE TEST GUIDANCE

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

1.2 TEST FACILITY

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

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C05 ☒ SR10 ☒ SR11

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

☐ C06 ☒ CB21 ☐ CB22

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

A. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

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

1.4 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Effective Radiated Power	23.2 °C, 42 %	AC 120V	Jerry Chuang
Radiated Spurious Emissions	Refer to data	AC 120V	Mark Wang Kevin Zhen

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer			
Model Name	TP00160A			
Brand Name	Lenovo			
Model Difference	N/A			
Power Source	DC voltage supplied from External Power Supply. (Lenovo/ ADLX65YSDC2A)			
Power Rating	I/P: 100-240V~ 1.8A 50-60Hz O/P: 20.0VDC 3.25A 65.0W / 15.0VDC 3.0A / 9.0VDC 3.0A / 5.0VDC 3.0A 15.0W			
WWAN Module	Quectel / EM061K-GL			
Operation Frequency	Band	UL Frequency (MHz)		DL Frequency (MHz)
	WCDMA V	824 ~ 849		869 ~ 894
	LTE 5	824 ~ 849		869 ~ 894
	LTE 26	824 ~ 849		869 ~ 894
Maximum ERP	Band	BW (MHz)	Mode	Power (W)
	WCDMA V	-	-	0.097
	LTE 5	1.4	QPSK	0.084
			16QAM	0.072
		3	QPSK	0.085
			16QAM	0.073
		5	QPSK	0.086
			16QAM	0.074
		10	QPSK	0.087
			16QAM	0.075
	LTE 26	1.4	QPSK	0.082
			16QAM	0.069
		3	QPSK	0.083
			16QAM	0.070
		5	QPSK	0.084
			16QAM	0.071
		10	QPSK	0.085
			16QAM	0.072
		15	QPSK	0.086
			16QAM	0.073
Test Model	TP00160A			
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	DC330022F20	PIFA	I-PEX	-1.59	WCDMA Band V
					-1.64	LTE Band 5
Aux	Luxshare-ICT	DC330022F20	PIFA	I-PEX	-	LTE Band 26
						RX only

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	SPEEDWIRE	DC330022J60	PIFA	I-PEX	-1.59	WCDMA Band V
					-1.64	LTE Band 5
Aux	SPEEDWIRE	DC330022J60	PIFA	I-PEX	-	LTE Band 26
						RX only

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

2.2 TEST MODES

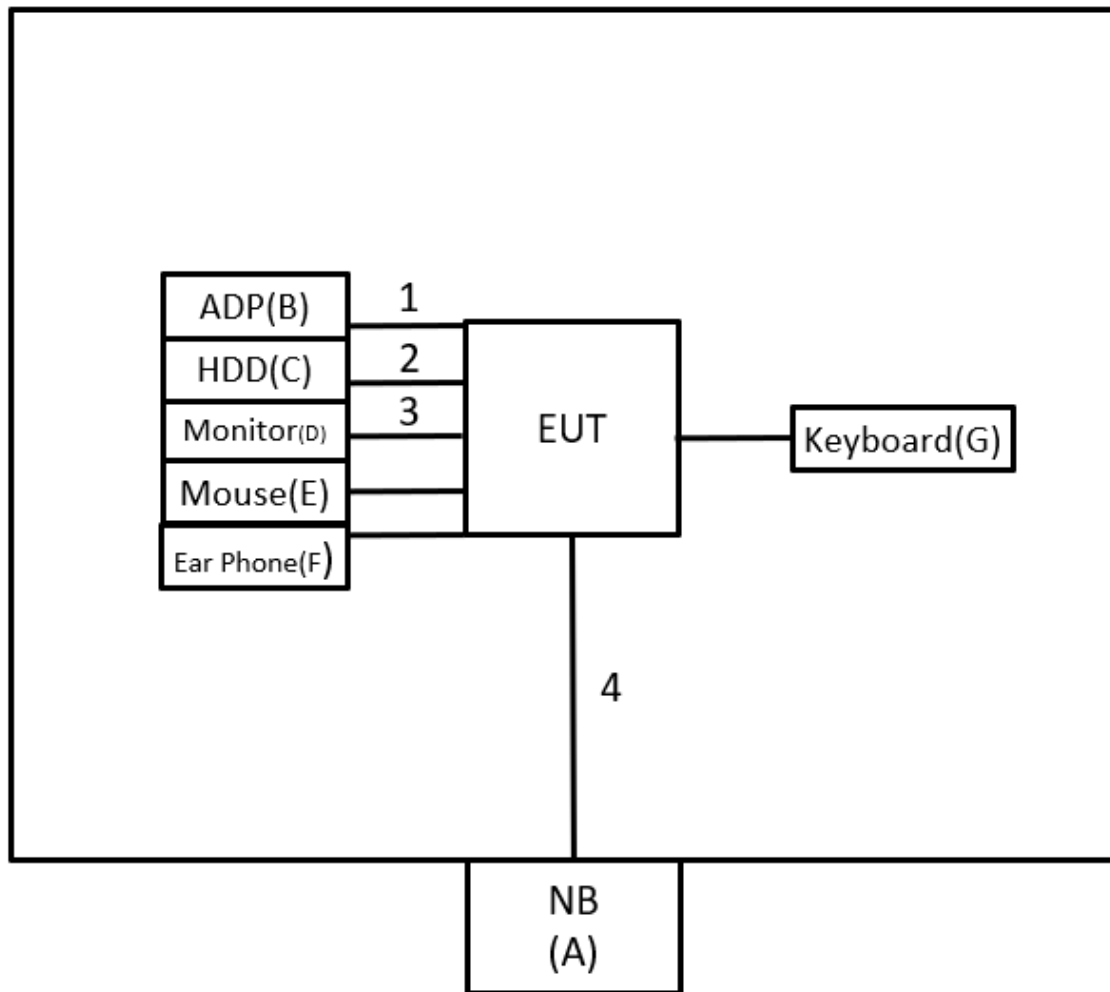
Test Items	Band	Test Mode	Note
Effective Radiated Power	WCDMA Band V	Refer to APPENDIX A	-
	LTE Band 5		
	LTE Band 26		
Radiated Spurious Emissions (Below 1G)	WCDMA Band V	TX Mode (CH 4183)	-
	LTE Band 5	TX Mode (CH 20450)	-
	LTE Band 26	TX Mode (CH 26470)	-
Radiated Spurious Emissions (Above 1G)	WCDMA Band V	TX Mode (CH 4132/4183/4233)	-
	LTE Band 5	TX Mode (CH 20450/20525/20600)	-
	LTE Band 26	TX Mode (CH 26740)	-

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 and 16QAM are evaluated, but only the worst case (QPSK) is recorded.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	HP	TPN-I119	N/A	Furnished by test lab.
B	ADP	Lenovo	ADLX65YSDC2A	N/A	Supplied by test requester.
C	USB 2.5" HDD	TOSIBA	XS700	483B60M9KQS S	Furnished by test lab.
D	27" 4K Monitor	DELL	U2720Q	CN-083VF-WSL 00-0B7-332L	Furnished by test lab.
E	Mouse	Lenovo	SM-8823	N/A	Furnished by test lab.
F	Ear Phone	HTC	N/A	N/A	Furnished by test lab.
G	Keyboard	Bloody	KB-8	N/A	Furnished by test lab.

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

3 EFFECTIVE RADIATED POWER MEASUREMENT

3.1 LIMIT

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

3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

- 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 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

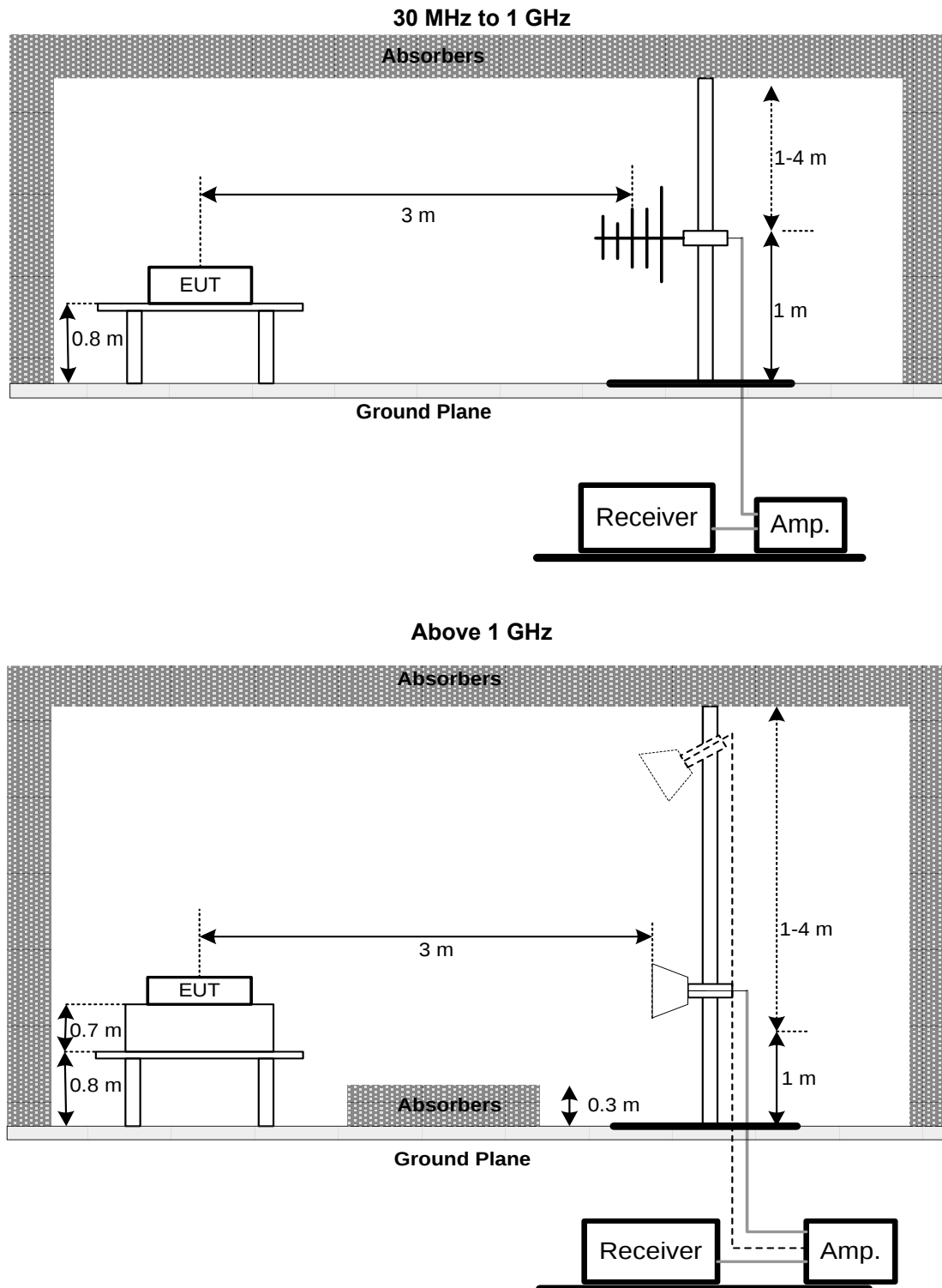
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- f. 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.
- g. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- h. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- i. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}$.
- j. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX B.

5 LIST OF MEASURING EQUIPMENTS

Effective Radiated Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2023/7/4	2024/7/3
2	Radio Communication Analyzer	ANRITSU	MT8820C	6201381608	2022/12/22	2023/12/21
3	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	WIRELESS COMMUNICATION TEST SET	Agilent	E5515C	GB47390193	2023/7/4	2024/7/3
15	Radio Communication Analyzer	ANRITSU	MT8820C	6201381608	2022/12/22	2023/12/21
16	Radio Communication Test Station	ANRITSU	MT8821C	6262044728	2023/11/22	2024/11/21
17	Wideband Radio Communication Tester	R&S	CMW500	154121	2023/1/12	2024/1/11
18	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

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

6 EUT TEST PHOTO

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

7 EUT PHOTOS

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

APPENDIX A EFFECTIVE RADIATED POWER

WCDMA Band V Power:

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
WCDMA Band V	Rel 99	4132/4357	826.4	22.89	19.15	0.082
		4183/4408	836.6	23.59	19.85	0.097
		4233/4458	846.6	23.34	19.60	0.091

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSDPA V	1	4132/4357	826.4	22.68	18.94	0.078
		4183/4408	836.6	23.38	19.64	0.092
		4233/4458	846.6	23.13	19.39	0.087
	2	4132/4357	826.4	22.18	18.44	0.070
		4183/4408	836.6	22.88	19.14	0.082
		4233/4458	846.6	22.63	18.89	0.077
	3	4132/4357	826.4	21.68	17.94	0.062
		4183/4408	836.6	22.38	18.64	0.073
		4233/4458	846.6	22.13	18.39	0.069
	4	4132/4357	826.4	21.68	17.94	0.062
		4183/4408	836.6	22.38	18.64	0.073
		4233/4458	846.6	22.13	18.39	0.069

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSUPA V	1	4132/4357	826.4	22.80	19.06	0.081
		4183/4408	836.6	23.52	19.78	0.095
		4233/4458	846.6	23.32	19.58	0.091
	2	4132/4357	826.4	20.80	17.06	0.051
		4183/4408	836.6	21.52	17.78	0.060
		4233/4458	846.6	21.32	17.58	0.057
	3	4132/4357	826.4	21.80	18.06	0.064
		4183/4408	836.6	22.52	18.78	0.076
		4233/4458	846.6	22.32	18.58	0.072
	4	4132/4357	826.4	20.80	17.06	0.051
		4183/4408	836.6	21.52	17.78	0.060
		4233/4458	846.6	21.32	17.58	0.057
	5	4132/4357	826.4	22.80	19.06	0.081
		4183/4408	836.6	23.52	19.78	0.095
		4233/4458	846.6	23.32	19.58	0.091

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 5 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	1.4	20407	824.7	QPSK	1	0	0	22.94	19.20	0.083
					1	2	0	22.98	19.24	0.084
					1	5	0	22.88	19.14	0.082
					6	0	1	22.06	18.32	0.068
				16QAM	1	0	1	22.22	18.48	0.070
					1	2	1	22.30	18.56	0.072
					1	5	1	22.29	18.55	0.072
					6	0	2	21.03	17.29	0.054
		20525	836.5	QPSK	1	0	0	22.85	19.11	0.081
					1	2	0	22.88	19.14	0.082
					1	5	0	22.80	19.06	0.081
					6	0	1	21.97	18.23	0.067
				16QAM	1	0	1	22.16	18.42	0.070
					1	2	1	22.19	18.45	0.070
					1	5	1	22.13	18.39	0.069
					6	0	2	21.03	17.29	0.054
		20643	848.3	QPSK	1	0	0	22.67	18.93	0.078
					1	2	0	22.87	19.13	0.082
					1	5	0	22.68	18.94	0.078
					6	0	1	21.78	18.04	0.064
				16QAM	1	0	1	21.99	18.25	0.067
					1	2	1	22.11	18.37	0.069
					1	5	1	21.96	18.22	0.066
					6	0	2	20.80	17.06	0.051

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	3	20415	825.5	QPSK	1	8	0	22.98	19.24	0.084
					1	14	0	23.03	19.29	0.085
					1	15	0	22.95	19.21	0.083
					15	6	1	22.10	18.36	0.069
				16QAM	1	8	1	22.27	18.53	0.071
					1	14	1	22.36	18.62	0.073
					1	15	1	22.28	18.54	0.071
					15	6	2	21.09	17.35	0.054
		20525	836.5	QPSK	1	8	0	22.89	19.15	0.082
					1	14	0	22.93	19.19	0.083
					1	15	0	22.85	19.11	0.081
					15	6	1	22.03	18.29	0.067
				16QAM	1	8	1	22.21	18.47	0.070
					1	14	1	22.25	18.51	0.071
					1	15	1	22.19	18.45	0.070
					15	6	2	21.08	17.34	0.054
		20635	847.5	QPSK	1	8	0	22.74	19.00	0.079
					1	14	0	22.91	19.17	0.083
					1	15	0	22.75	19.01	0.080
					15	6	1	21.86	18.12	0.065
				16QAM	1	8	1	22.05	18.31	0.068
					1	14	1	22.15	18.41	0.069
					1	15	1	22.00	18.26	0.067
					15	6	2	20.86	17.12	0.052

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	5	20425	826.5	QPSK	1	0	0	23.05	19.31	0.085
					1	12	0	23.09	19.35	0.086
					1	24	0	23.01	19.27	0.085
					25	0	1	22.15	18.41	0.069
				16QAM	1	0	1	22.34	18.60	0.072
					1	12	1	22.42	18.68	0.074
					1	24	1	22.38	18.64	0.073
					25	0	2	21.16	17.42	0.055
		20525	836.5	QPSK	1	0	0	22.95	19.21	0.083
					1	12	0	23.00	19.26	0.084
					1	24	0	22.91	19.17	0.083
					25	0	1	22.07	18.33	0.068
				16QAM	1	0	1	22.27	18.53	0.071
					1	12	1	22.29	18.55	0.072
					1	24	1	22.25	18.51	0.071
					25	0	2	21.14	17.40	0.055
		20625	846.5	QPSK	1	0	0	22.80	19.06	0.081
					1	12	0	22.95	19.21	0.083
					1	24	0	22.82	19.08	0.081
					25	0	1	21.91	18.17	0.066
				16QAM	1	0	1	22.10	18.36	0.069
					1	12	1	22.21	18.47	0.070
					1	24	1	22.08	18.34	0.068
					25	0	2	20.94	17.20	0.052

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	10	20450	829.0	QPSK	1	0	0	23.11	19.37	0.086
					1	24	0	23.13	19.39	0.087
					1	49	0	23.07	19.33	0.086
					50	0	1	22.20	18.46	0.070
				16QAM	1	0	1	22.41	18.67	0.074
					1	24	1	22.47	18.73	0.075
					1	49	1	22.36	18.62	0.073
					50	0	2	21.23	17.49	0.056
		20525	836.5	QPSK	1	0	0	23.02	19.28	0.085
					1	24	0	23.05	19.31	0.085
					1	49	0	22.98	19.24	0.084
					50	0	1	22.12	18.38	0.069
				16QAM	1	0	1	22.33	18.59	0.072
					1	24	1	22.37	18.63	0.073
					1	49	1	22.30	18.56	0.072
					50	0	2	21.18	17.44	0.055
		20600	844.0	QPSK	1	0	0	22.87	19.13	0.082
					1	24	0	23.01	19.27	0.085
					1	49	0	22.88	19.14	0.082
					50	0	1	21.96	18.22	0.066
				16QAM	1	0	1	22.15	18.41	0.069
					1	24	1	22.29	18.55	0.072
					1	49	1	22.13	18.39	0.069
					50	0	2	21.02	17.28	0.053

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

LTE Band 26 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	1.4	26797	824.7	QPSK	1	0	0	22.82	19.03	0.080
					1	2	0	22.91	19.12	0.082
					1	5	0	22.78	18.99	0.079
					6	0	1	21.86	18.07	0.064
				16QAM	1	0	1	22.07	18.28	0.067
					1	2	1	22.14	18.35	0.068
					1	5	1	22.00	18.21	0.066
					6	0	2	20.87	17.08	0.051
		26365	836.5	QPSK	1	0	0	22.33	18.54	0.071
					1	2	0	22.78	18.99	0.079
					1	5	0	22.79	19.00	0.079
					6	0	1	21.83	18.04	0.064
				16QAM	1	0	1	22.14	18.35	0.068
					1	2	1	22.06	18.27	0.067
					1	5	1	22.16	18.37	0.069
					6	0	2	20.87	17.08	0.051
		26683	848.3	QPSK	1	0	0	22.74	18.95	0.079
					1	2	0	22.85	19.06	0.081
					1	5	0	22.66	18.87	0.077
					6	0	1	21.77	17.98	0.063
				16QAM	1	0	1	22.05	18.26	0.067
					1	2	1	22.18	18.39	0.069
					1	5	1	21.97	18.18	0.066
					6	0	2	20.78	16.99	0.050

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	3	26805	825.5	QPSK	1	8	0	22.86	19.07	0.081
					1	14	0	22.96	19.17	0.083
					1	15	0	22.85	19.06	0.081
					15	6	1	21.90	18.11	0.065
				16QAM	1	8	1	22.12	18.33	0.068
					1	14	1	22.20	18.41	0.069
					1	15	1	22.06	18.27	0.067
					15	6	2	20.93	17.14	0.052
		26915	836.5	QPSK	1	8	0	22.37	18.58	0.072
					1	14	0	22.83	19.04	0.080
					1	15	0	22.84	19.05	0.080
					15	6	1	21.89	18.10	0.065
				16QAM	1	8	1	22.19	18.40	0.069
					1	14	1	22.12	18.33	0.068
					1	15	1	22.22	18.43	0.070
					15	6	2	20.92	17.13	0.052
		27025	847.5	QPSK	1	8	0	22.81	19.02	0.080
					1	14	0	22.89	19.10	0.081
					1	15	0	22.73	18.94	0.078
					15	6	1	21.85	18.06	0.064
				16QAM	1	8	1	22.11	18.32	0.068
					1	14	1	22.22	18.43	0.070
					1	15	1	22.01	18.22	0.066
					15	6	2	20.84	17.05	0.051

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	5	26815	826.5	QPSK	1	0	0	22.93	19.14	0.082
					1	12	0	23.02	19.23	0.084
					1	24	0	22.91	19.12	0.082
					25	0	1	21.95	18.16	0.065
				16QAM	1	0	1	22.19	18.40	0.069
					1	12	1	22.26	18.47	0.070
					1	24	1	22.14	18.35	0.068
					25	0	2	21.00	17.21	0.053
		26915	836.5	QPSK	1	0	0	22.43	18.64	0.073
					1	12	0	22.90	19.11	0.081
					1	24	0	22.90	19.11	0.081
					25	0	1	21.93	18.14	0.065
				16QAM	1	0	1	22.25	18.46	0.070
					1	12	1	22.16	18.37	0.069
					1	24	1	22.28	18.49	0.071
					25	0	2	20.98	17.19	0.052
		27015	846.5	QPSK	1	0	0	22.87	19.08	0.081
					1	12	0	22.93	19.14	0.082
					1	24	0	22.80	19.01	0.080
					25	0	1	21.90	18.11	0.065
				16QAM	1	0	1	22.16	18.37	0.069
					1	12	1	22.28	18.49	0.071
					1	24	1	22.09	18.30	0.068
					25	0	2	20.92	17.13	0.052

NOTE:

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

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	10	26840	829.0	QPSK	1	0	0	22.99	19.20	0.083
					1	24	0	23.06	19.27	0.085
					1	49	0	22.97	19.18	0.083
					50	0	1	22.00	18.21	0.066
				16QAM	1	0	1	22.26	18.47	0.070
					1	24	1	22.31	18.52	0.071
					1	49	1	22.21	18.42	0.070
					50	0	2	21.07	17.28	0.053
		26915	836.5	QPSK	1	0	0	22.97	19.18	0.083
					1	24	0	22.95	19.16	0.082
					1	49	0	22.97	19.18	0.083
					50	0	1	21.98	18.19	0.066
				16QAM	1	0	1	22.31	18.52	0.071
					1	24	1	22.24	18.45	0.070
					1	49	1	22.33	18.54	0.071
					50	0	2	21.02	17.23	0.053
		26990	844.0	QPSK	1	0	0	22.94	19.15	0.082
					1	24	0	22.99	19.20	0.083
					1	49	0	22.86	19.07	0.081
					50	0	1	21.95	18.16	0.065
				16QAM	1	0	1	22.21	18.42	0.070
					1	24	1	22.36	18.57	0.072
					1	49	1	22.14	18.35	0.068
					50	0	2	21.00	17.21	0.053

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

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

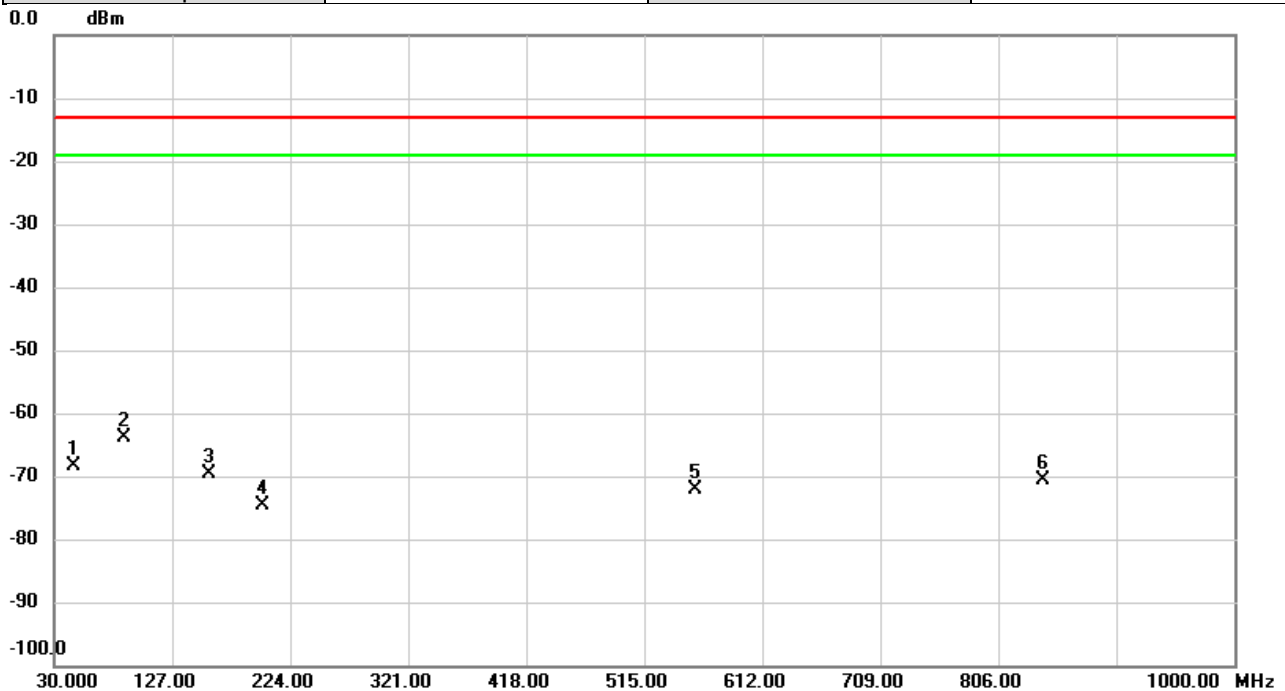
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
26	15	26865	831.5	QPSK	1	0	0	23.03	19.24	0.084
					1	38	0	23.12	19.33	0.086
					1	74	0	23.04	19.25	0.084
					75	0	1	22.05	18.26	0.067
				16QAM	1	0	1	22.32	18.53	0.071
					1	38	1	22.36	18.57	0.072
					1	74	1	22.29	18.50	0.071
					75	0	2	21.14	17.35	0.054
		26915	836.5	QPSK	1	0	0	23.04	19.25	0.084
					1	38	0	23.01	19.22	0.084
					1	74	0	23.04	19.25	0.084
					75	0	1	22.03	18.24	0.067
				16QAM	1	0	1	22.35	18.56	0.072
					1	38	1	22.31	18.52	0.071
					1	74	1	22.40	18.61	0.073
					100	0	2	21.08	17.29	0.054
		26965	841.5	QPSK	1	0	0	23.01	19.22	0.084
					1	38	0	23.04	19.25	0.084
					1	74	0	22.94	19.15	0.082
					75	0	1	22.01	18.22	0.066
				16QAM	1	0	1	22.27	18.48	0.070
					1	38	1	22.42	18.63	0.073
					1	74	1	22.22	18.43	0.070
					75	0	2	21.06	17.27	0.053

NOTE:

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

APPENDIX B RADIATED SPURIOUS EMISSIONS

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

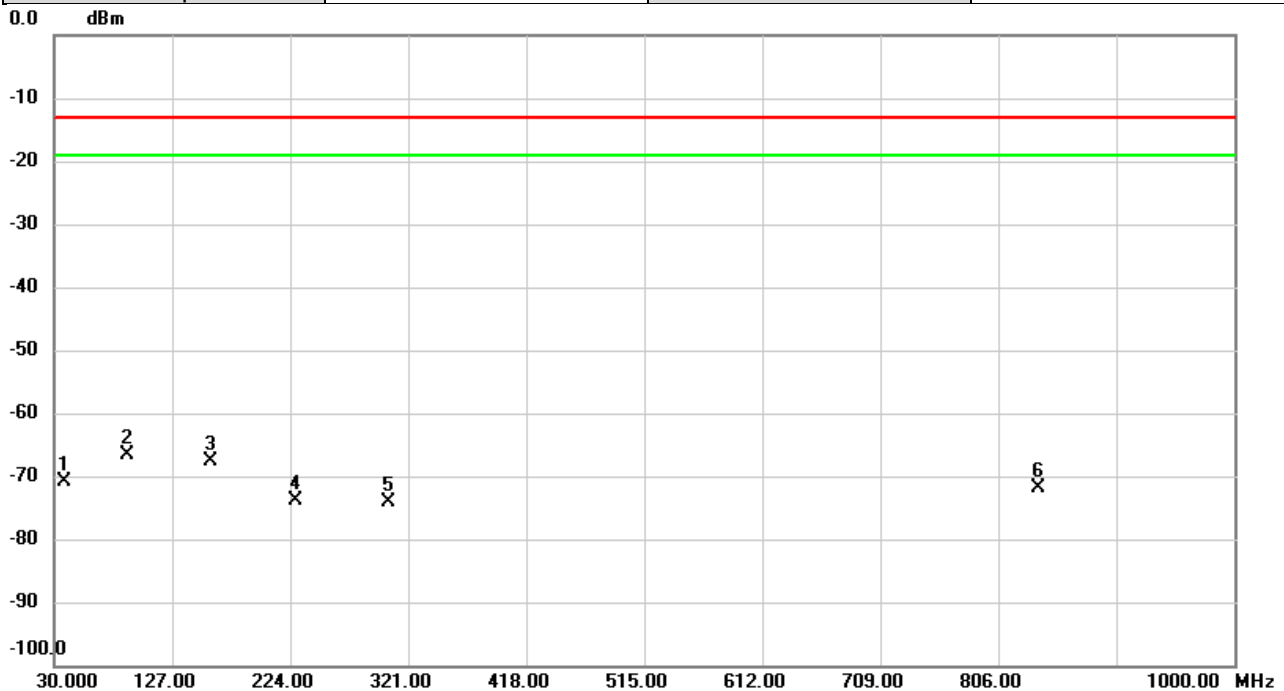


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		46.7163	-60.24	-8.23	-68.47	-13.00	-55.47	peak	
2	*	87.9736	-58.30	-5.67	-63.97	-13.00	-50.97	peak	
3		157.5226	-67.42	-2.29	-69.71	-13.00	-56.71	peak	
4		201.4960	-71.33	-3.32	-74.65	-13.00	-61.65	peak	
5		557.4860	-74.90	2.85	-72.05	-13.00	-59.05	peak	
6		842.8276	-75.42	4.79	-70.63	-13.00	-57.63	peak	

REMARKS:

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

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



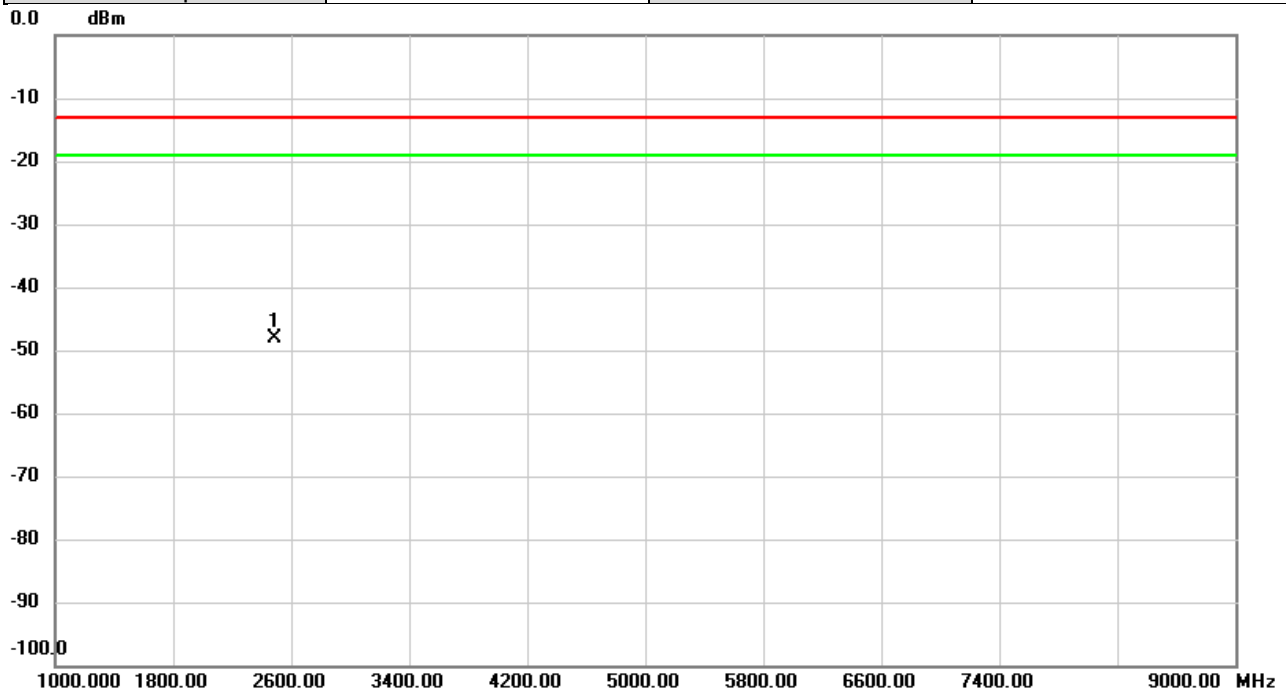
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		38.2773	-72.91	2.04	-70.87	-13.00	-57.87	peak	
2	*	89.8813	-58.25	-8.33	-66.58	-13.00	-53.58	peak	
3		158.7836	-61.72	-6.01	-67.73	-13.00	-54.73	peak	
4		228.9147	-65.91	-8.01	-73.92	-13.00	-60.92	peak	
5		304.8333	-68.43	-5.77	-74.20	-13.00	-61.20	peak	
6		838.5920	-75.88	3.99	-71.89	-13.00	-58.89	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4132	Polarization	Vertical
Temp	23°C	Hum.	56%

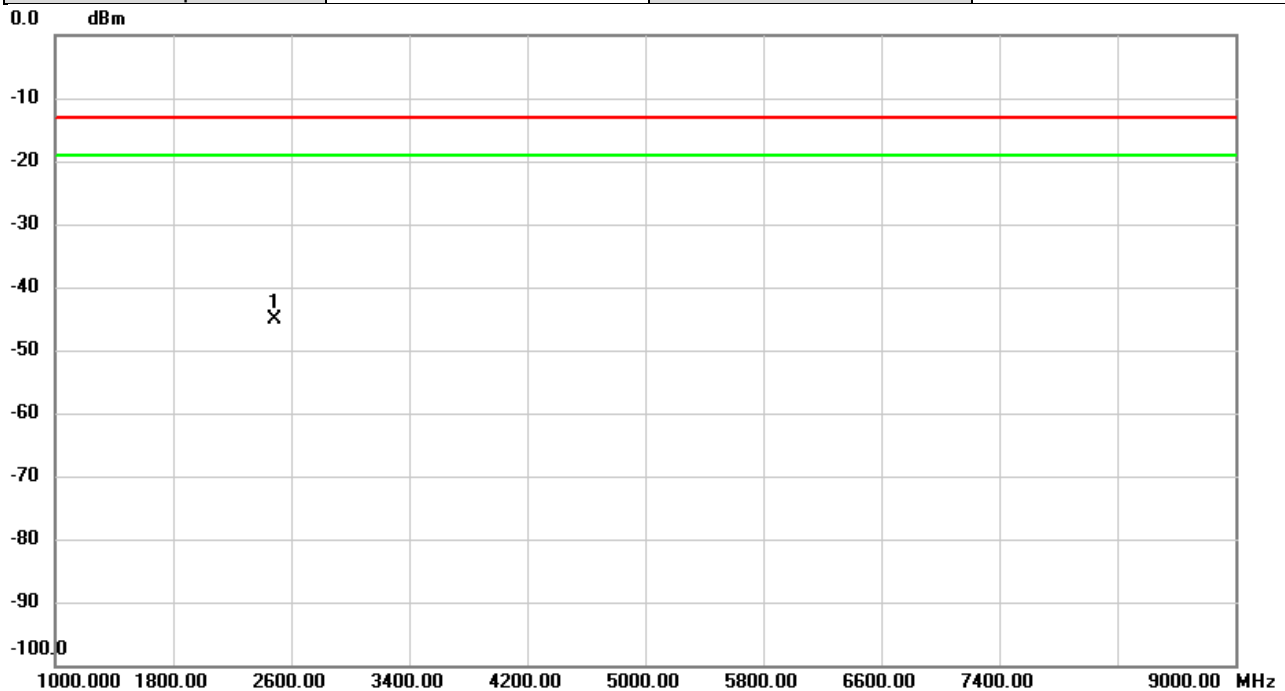


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2483.200	-55.64	7.45	-48.19	-13.00	-35.19	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4132	Polarization	Horizontal
Temp	23°C	Hum.	56%

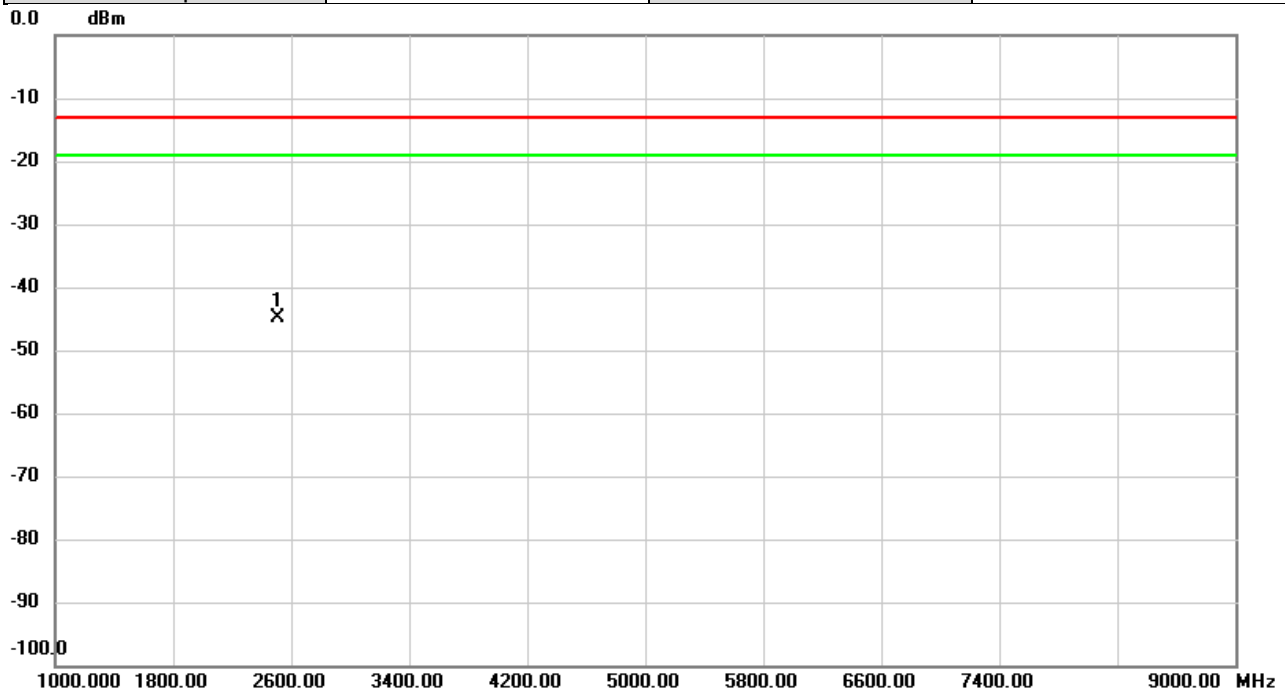


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2483.733	-52.41	7.31	-45.10	-13.00	-32.10	peak	

REMARKS:

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

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

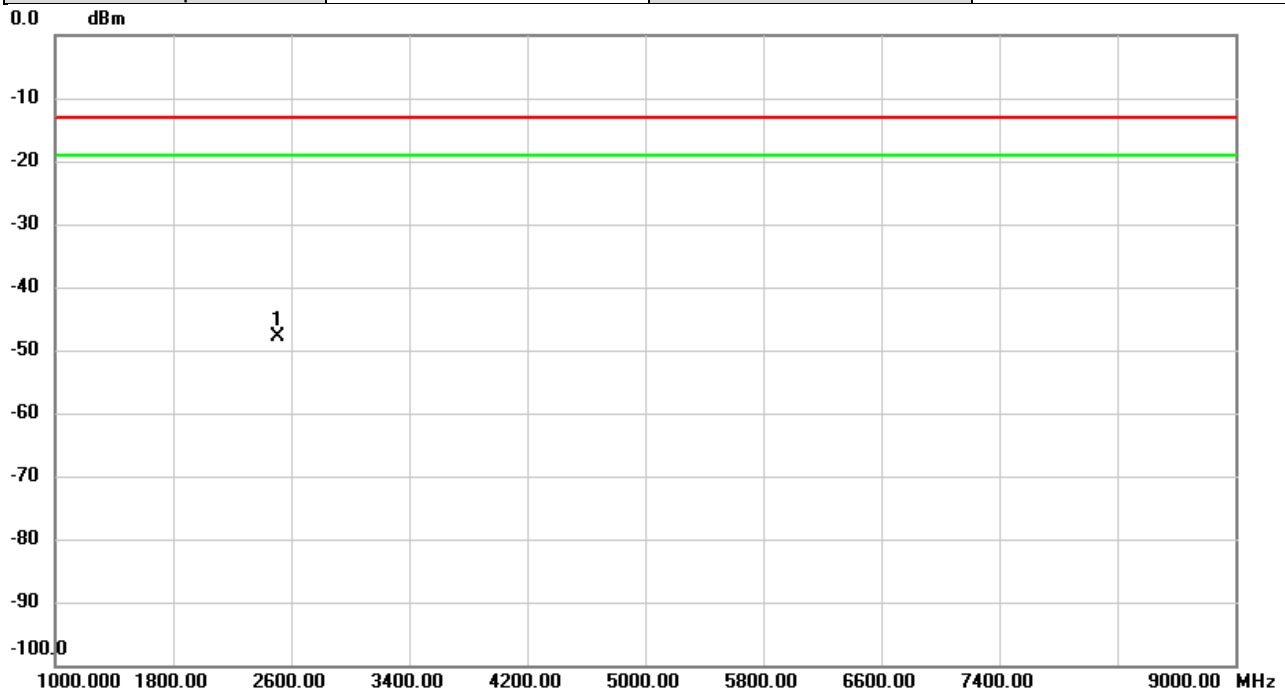


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2505.600	-52.13	7.37	-44.76	-13.00	-31.76	peak	

REMARKS:

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

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

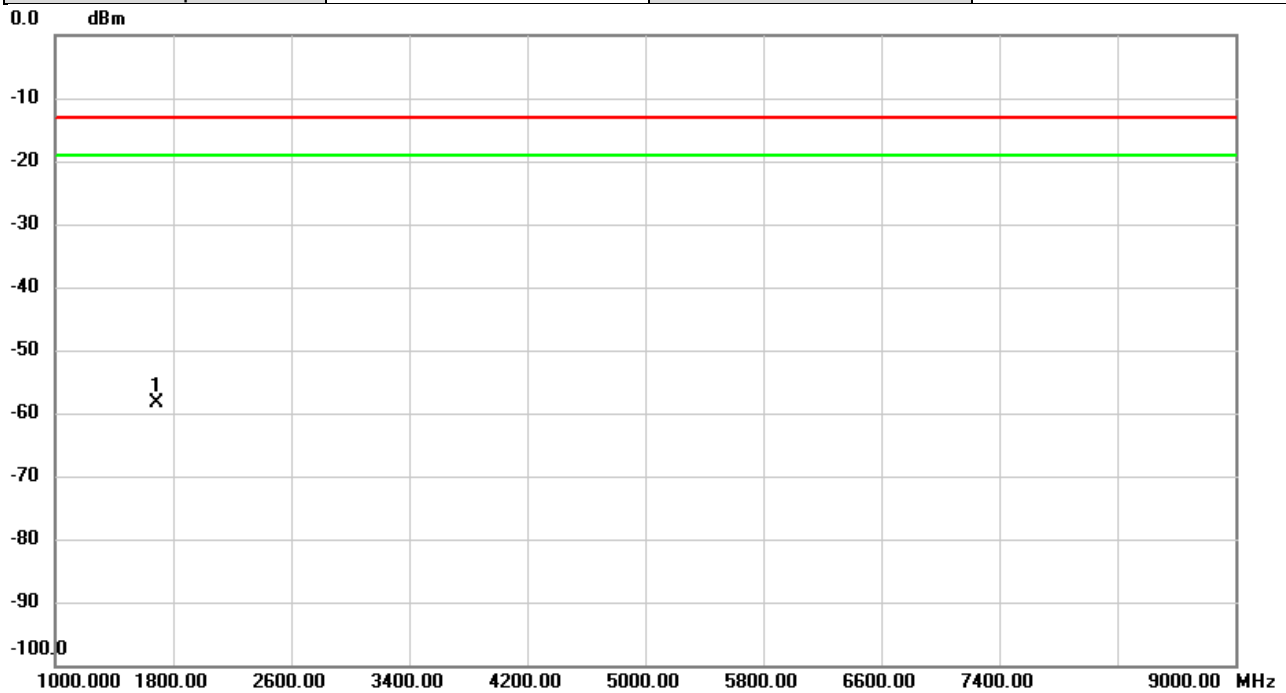


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2507.200	-55.01	7.25	-47.76	-13.00	-34.76	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4233	Polarization	Vertical
Temp	23°C	Hum.	56%

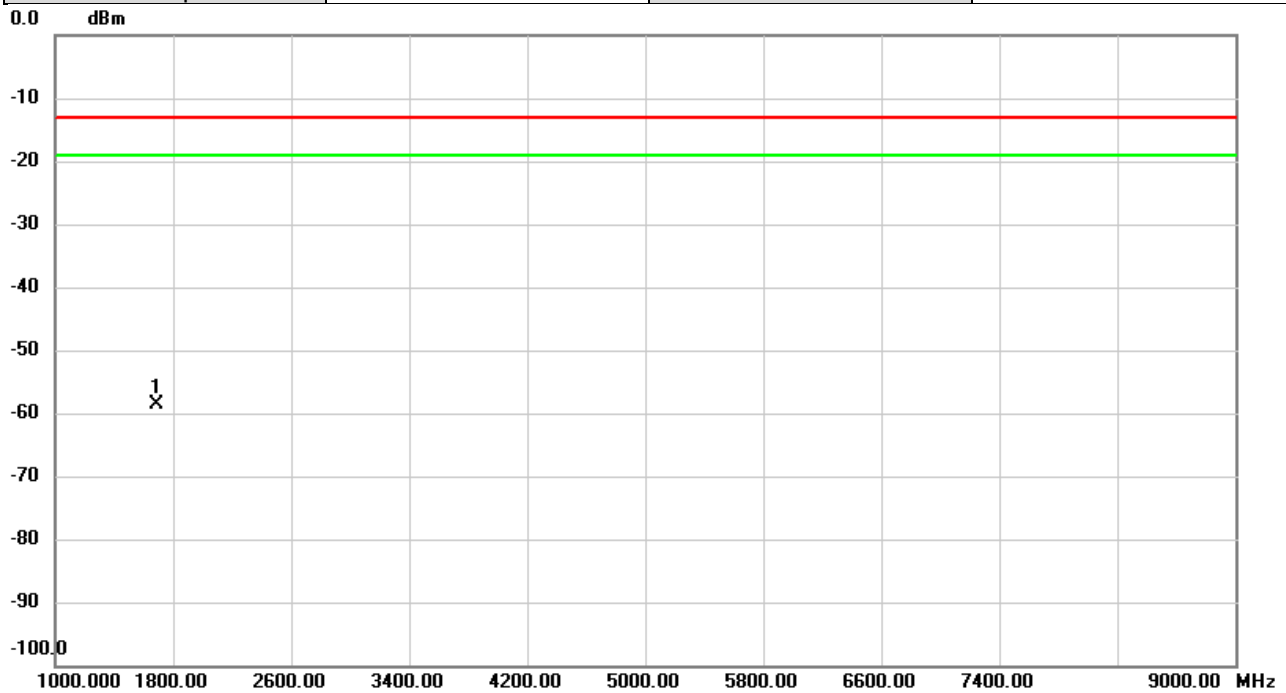


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1693.200	-63.97	5.66	-58.31	-13.00	-45.31	peak	

REMARKS:

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

Test Mode	WCDMA Band V	Test Date	2023/11/29
Test Channel	CH4233	Polarization	Horizontal
Temp	23°C	Hum.	56%

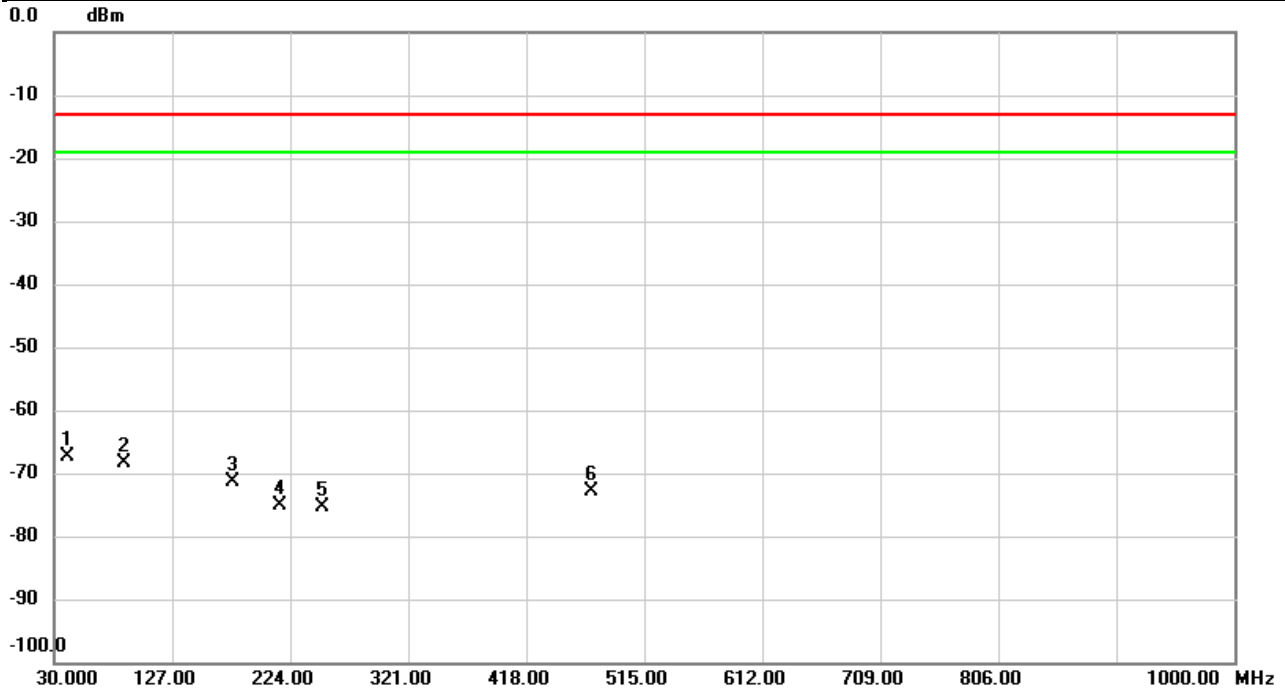


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1693.200	-64.36	5.62	-58.74	-13.00	-45.74	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/29
Test Channel	CH20450	Polarization	Vertical
Temp	23°C	Hum.	56%

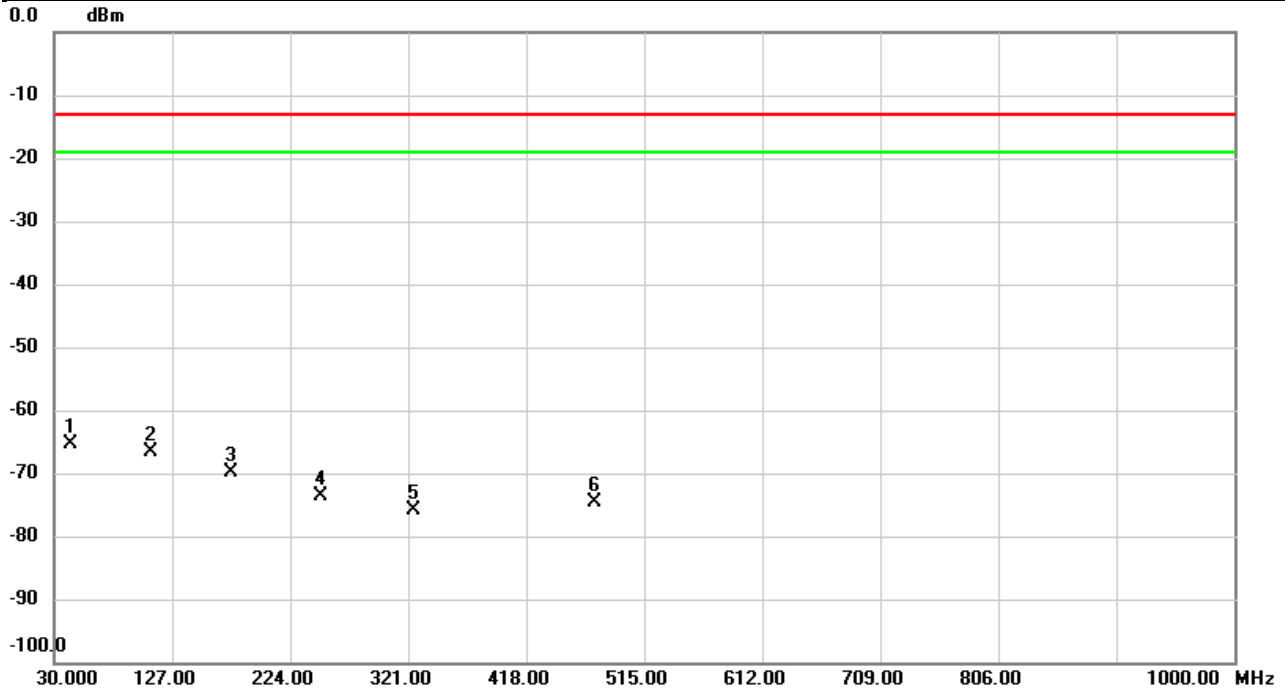


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	41.5107	-59.03	-8.42	-67.45	-13.00	-54.45	peak	
2		87.4887	-62.60	-5.70	-68.30	-13.00	-55.30	peak	
3		176.8257	-69.00	-2.44	-71.44	-13.00	-58.44	peak	
4		215.9813	-71.46	-3.75	-75.21	-13.00	-62.21	peak	
5		250.0607	-72.45	-2.97	-75.42	-13.00	-62.42	peak	
6		471.5440	-72.05	-0.79	-72.84	-13.00	-59.84	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/29
Test Channel	CH20450	Polarization	Horizontal
Temp	23°C	Hum.	56%

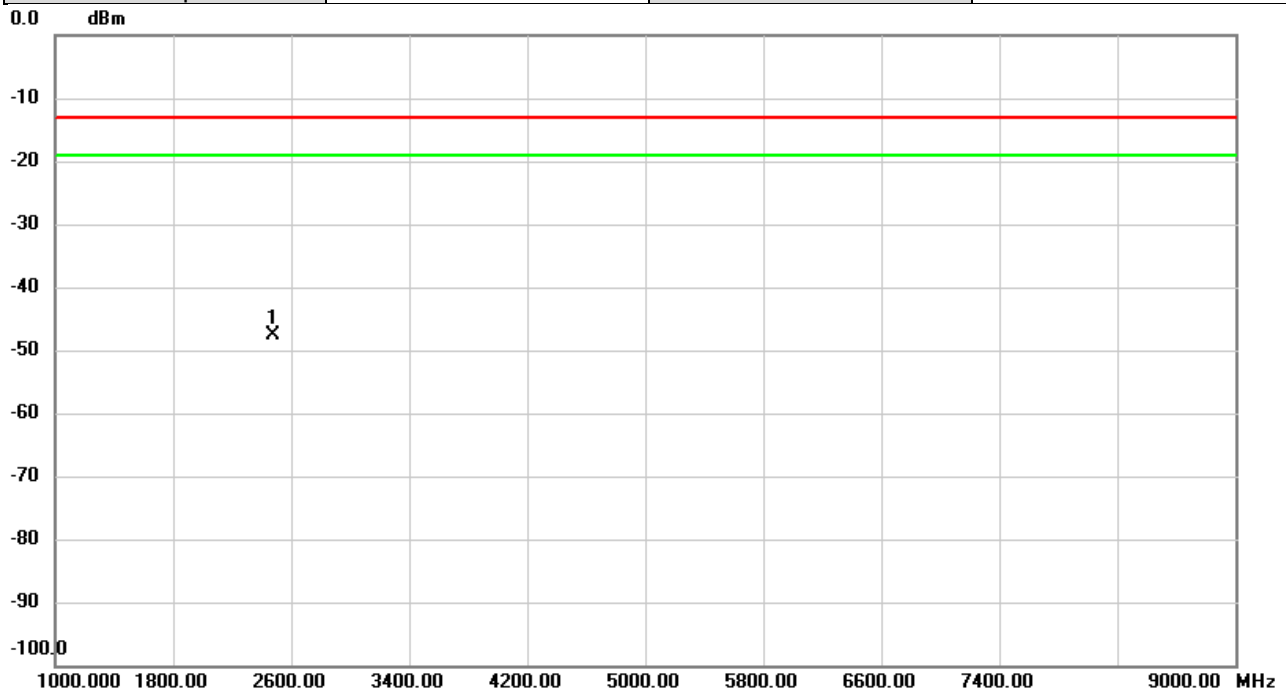


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	42.9980	-66.71	1.46	-65.25	-13.00	-52.25	peak	
2		109.2167	-58.57	-8.11	-66.68	-13.00	-53.68	peak	
3		175.7910	-63.71	-6.17	-69.88	-13.00	-56.88	peak	
4		249.1553	-65.54	-8.01	-73.55	-13.00	-60.55	peak	
5		324.9123	-71.40	-4.38	-75.78	-13.00	-62.78	peak	
6		474.8743	-72.78	-1.79	-74.57	-13.00	-61.57	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20450	Polarization	Vertical
Temp	22°C	Hum.	56%

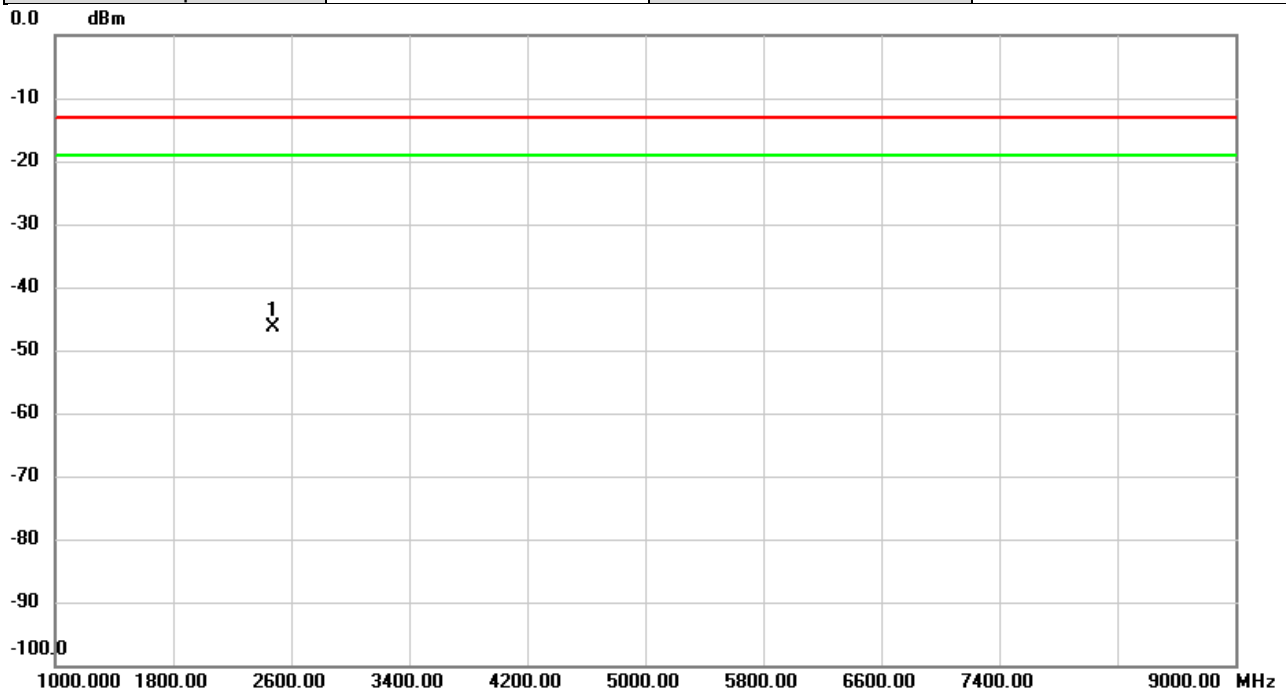


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2474.133	-55.03	7.52	-47.51	-13.00	-34.51	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20450	Polarization	Horizontal
Temp	22°C	Hum.	56%

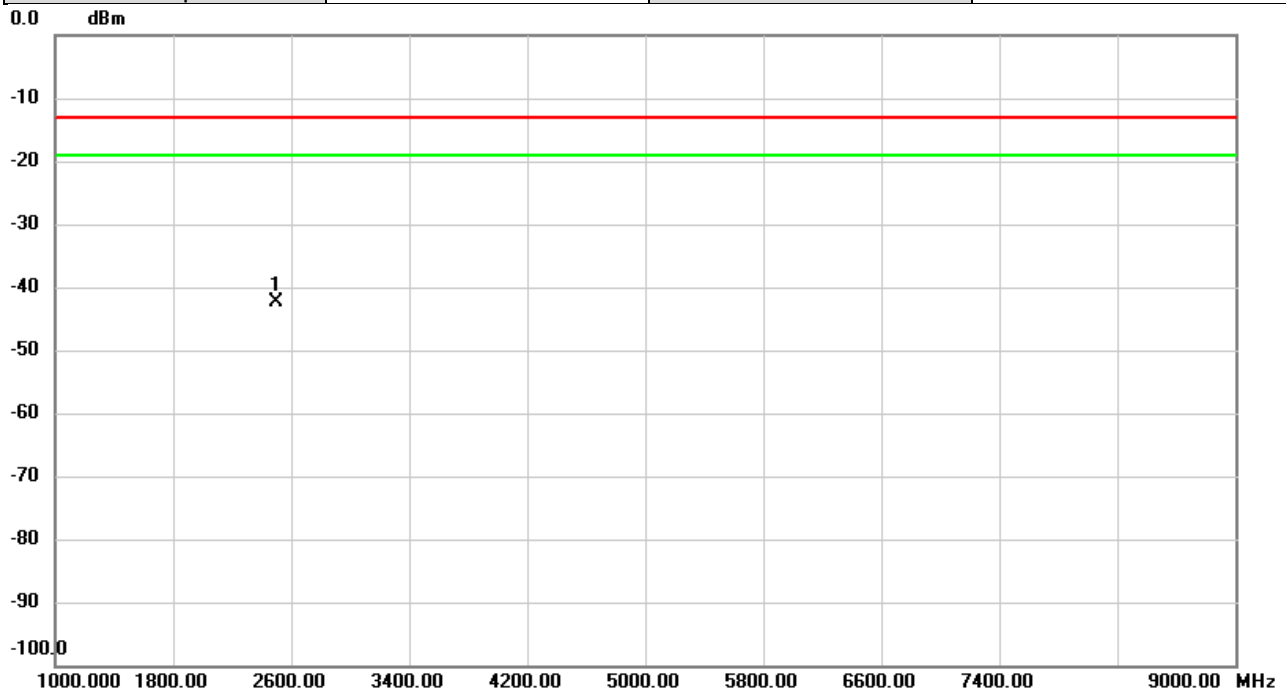


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2473.867	-53.75	7.38	-46.37	-13.00	-33.37	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20525	Polarization	Vertical
Temp	22°C	Hum.	56%

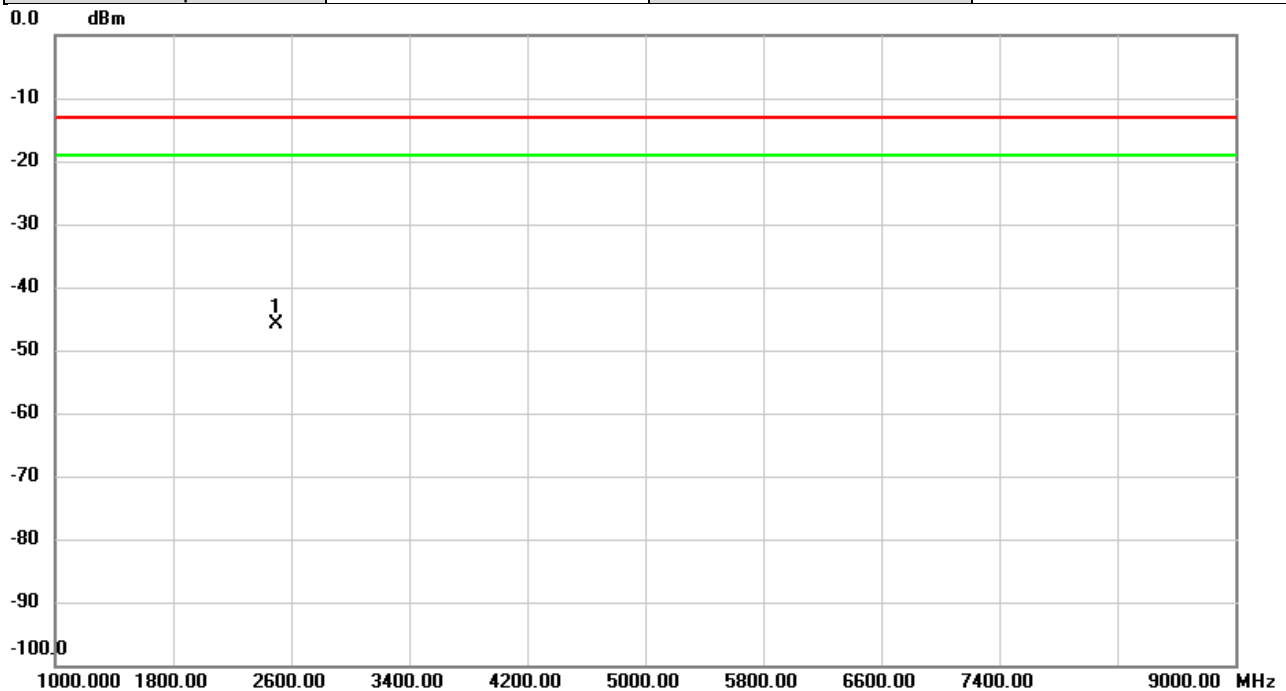


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2496.267	-49.80	7.36	-42.44	-13.00	-29.44	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20525	Polarization	Horizontal
Temp	22°C	Hum.	56%

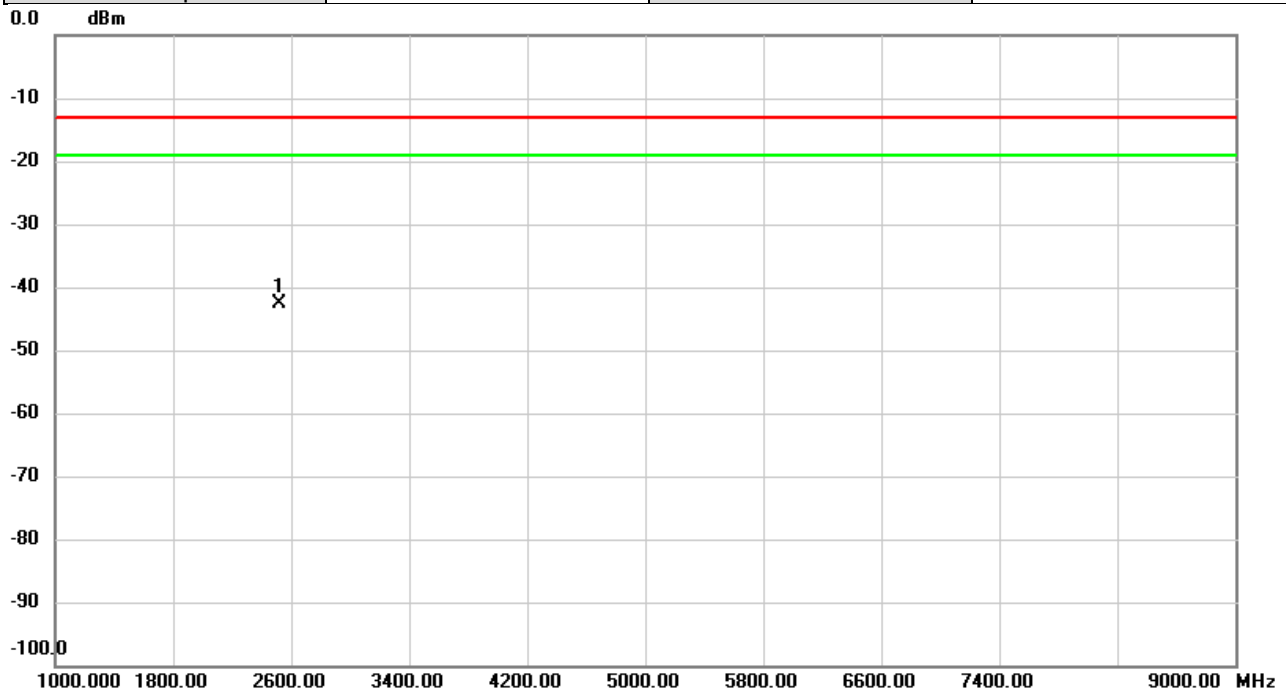


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2496.267	-53.14	7.22	-45.92	-13.00	-32.92	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20600	Polarization	Vertical
Temp	22°C	Hum.	56%

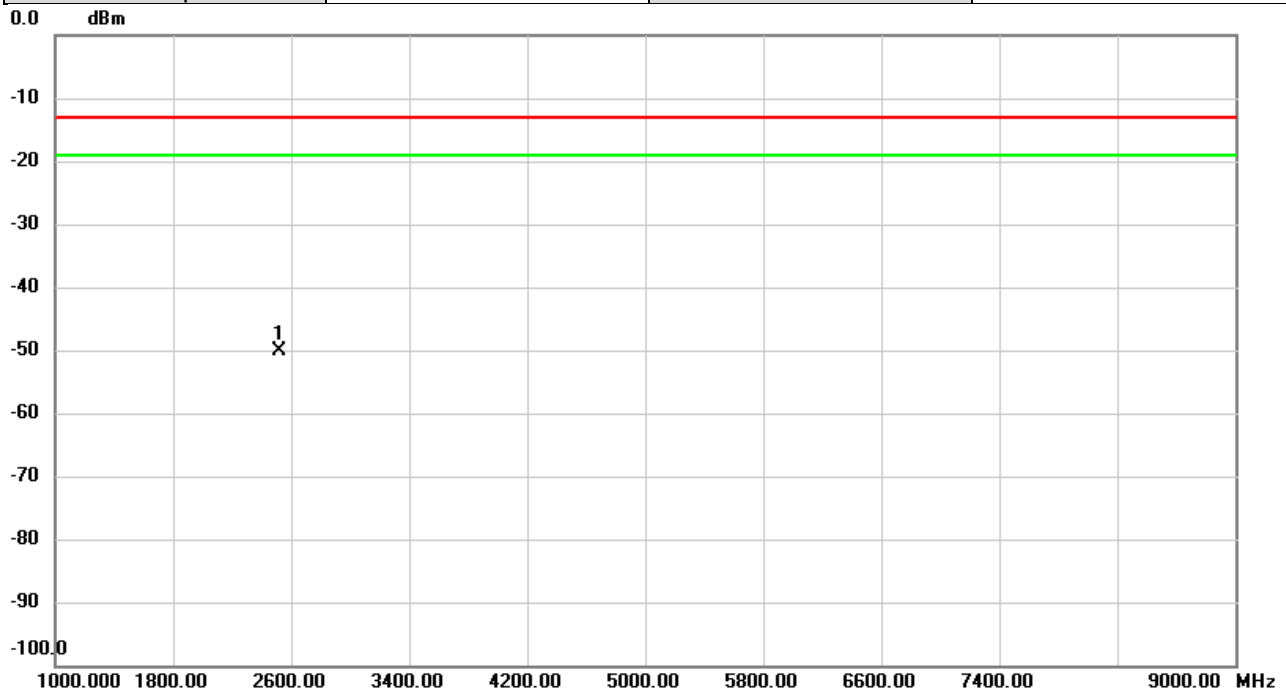


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2518.933	-50.18	7.47	-42.71	-13.00	-29.71	peak	

REMARKS:

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

Test Mode	LTE Band 5	Test Date	2023/11/28
Test Channel	CH20600	Polarization	Horizontal
Temp	22°C	Hum.	56%

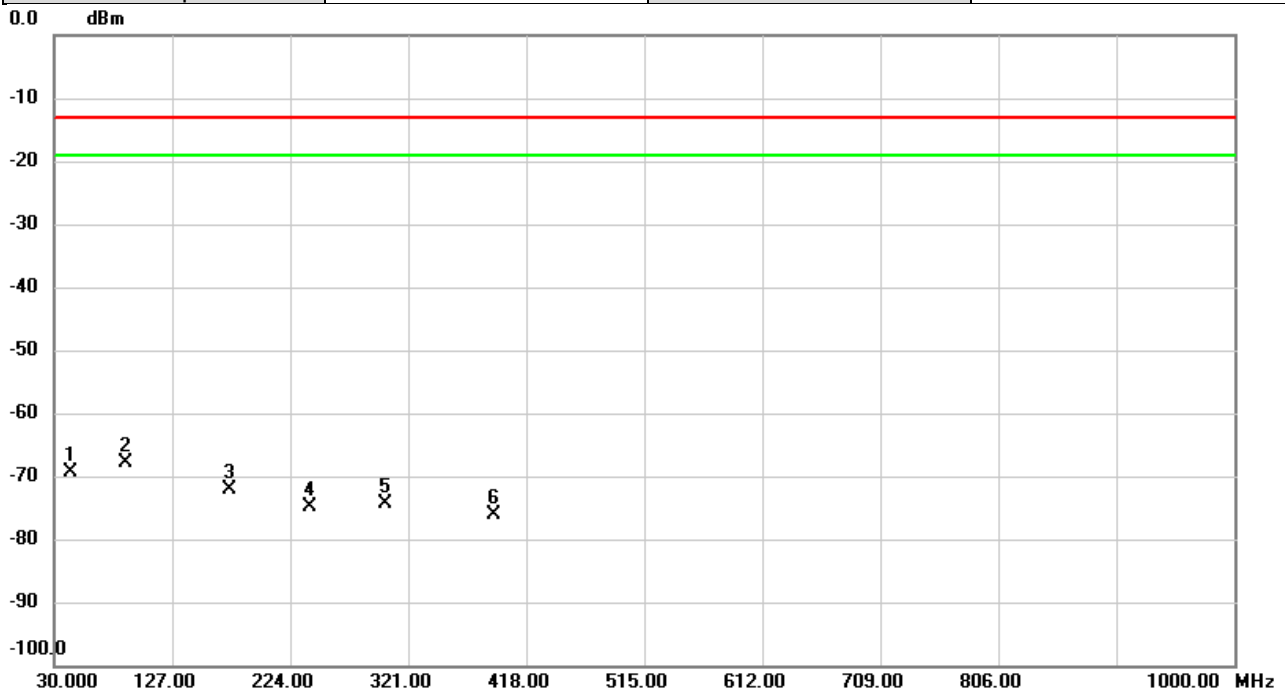


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2518.933	-57.44	7.35	-50.09	-13.00	-37.09	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/29
Test Channel	CH26740	Polarization	Vertical
Temp	23°C	Hum.	56%

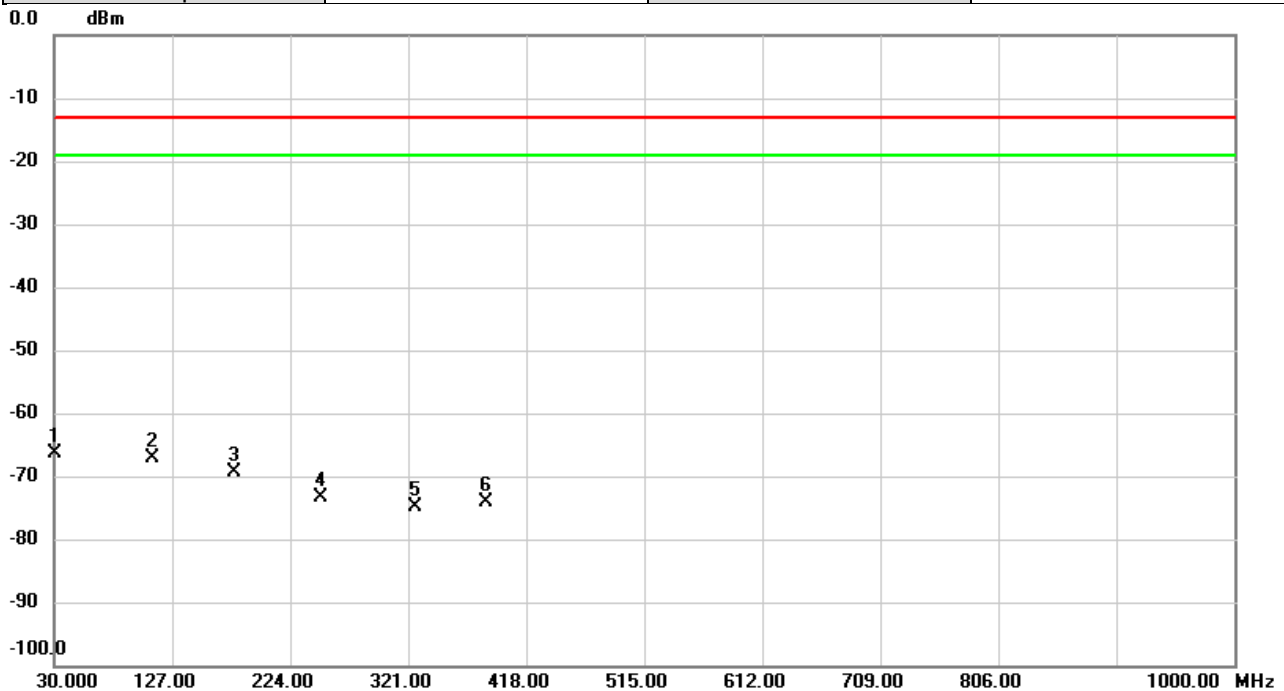


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		43.6447	-60.94	-8.49	-69.43	-13.00	-56.43	peak	
2	*	88.2970	-62.33	-5.66	-67.99	-13.00	-54.99	peak	
3		174.2390	-69.97	-2.23	-72.20	-13.00	-59.20	peak	
4		240.6193	-72.45	-2.38	-74.83	-13.00	-61.83	peak	
5		301.6000	-71.14	-3.28	-74.42	-13.00	-61.42	peak	
6		391.3897	-73.82	-2.34	-76.16	-13.00	-63.16	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/29
Test Channel	CH26740	Polarization	Horizontal
Temp	23°C	Hum.	56%

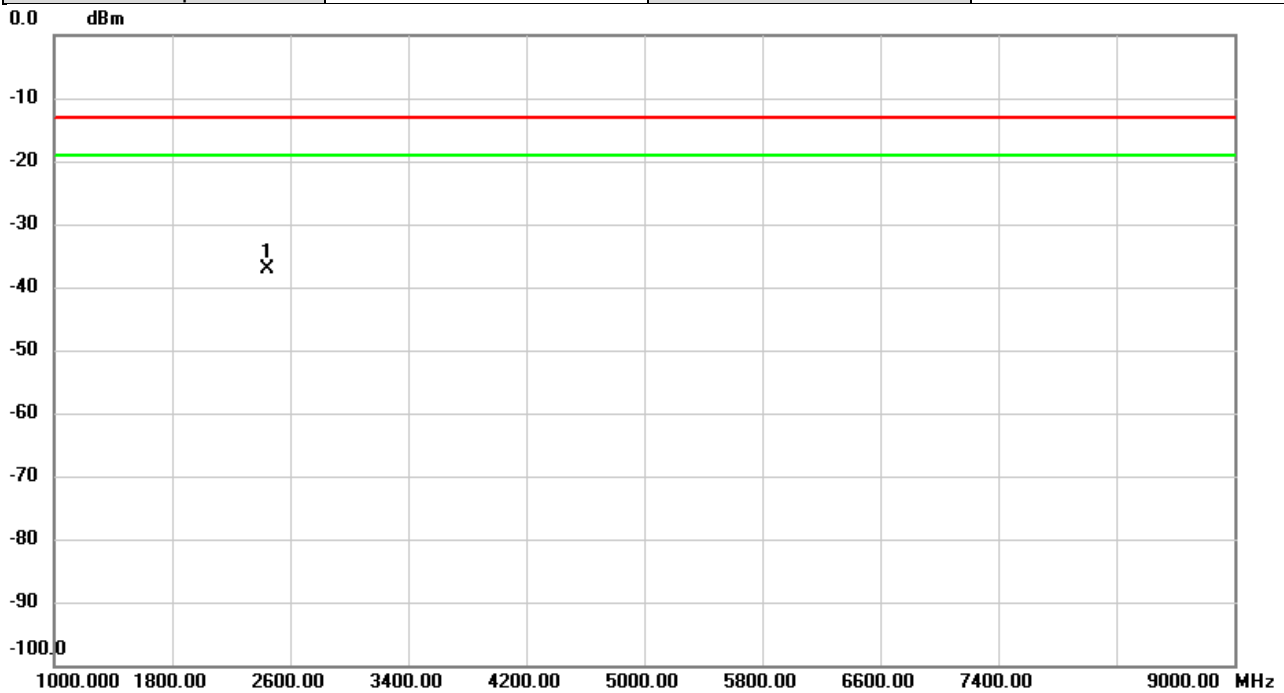


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	30.9700	-69.14	2.76	-66.38	-13.00	-53.38	peak	
2		110.4453	-59.08	-8.09	-67.17	-13.00	-54.17	peak	
3		178.4100	-62.90	-6.43	-69.33	-13.00	-56.33	peak	
4		248.8320	-65.41	-8.01	-73.42	-13.00	-60.42	peak	
5		326.8523	-70.69	-4.24	-74.93	-13.00	-61.93	peak	
6		385.4727	-71.71	-2.49	-74.20	-13.00	-61.20	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/28
Test Channel	CH26740	Polarization	Vertical
Temp	22°C	Hum.	56%

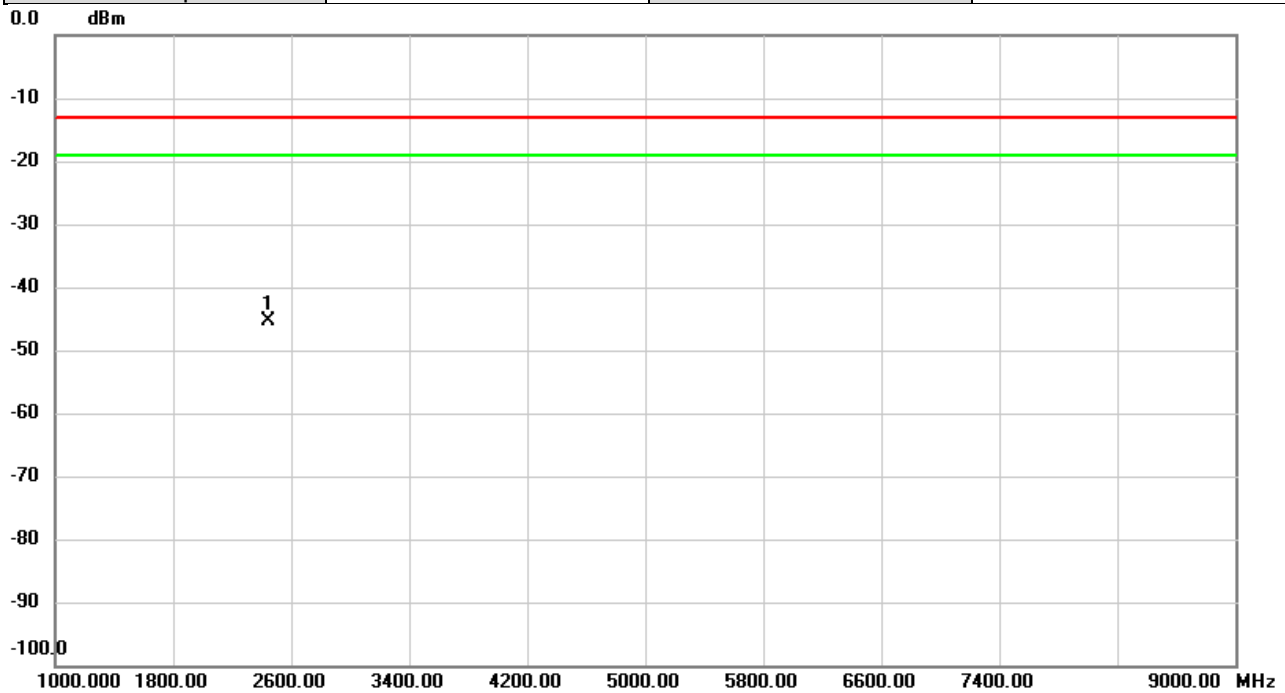


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2444.000	-44.69	7.65	-37.04	-13.00	-24.04	peak	

REMARKS:

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

Test Mode	LTE Band 26	Test Date	2023/11/28
Test Channel	CH26740	Polarization	Horizontal
Temp	22°C	Hum.	56%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2443.733	-52.82	7.55	-45.27	-13.00	-32.27	peak	

REMARKS:

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

End of Test Report