

FCC Radio Test Report

FCC ID: 2AJN7-LN500CG3

Report No. : BTL-FCCP-2-2101T085
Equipment : Notebook Computer
Model Name : Lenovo 500e Chromebook Gen 3
Brand Name : Lenovo
Applicant : LC Future Center
Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan

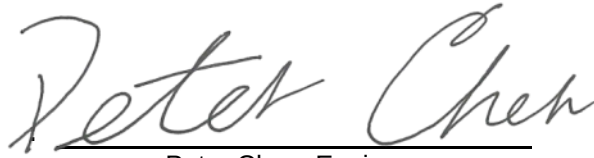
Radio Function : WCDMA Band II, LTE Band 2

FCC Rule Part(s) : 47 CFR FCC Part 24 Subpart E
Measurement : ANSI C63.26-2015
Procedure(s) : ANSI/TIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2021/1/18
Date of Test : 2021/1/18 ~ 2021/4/6
Issued Date : 2021/4/23

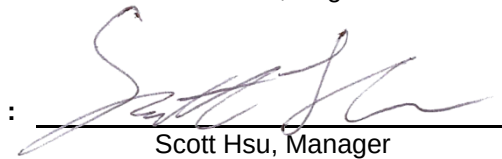
The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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.

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REVISION HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-2-2101T085	R00	Original Report.	2021/4/12
BTL-FCCP-2-2101T085	R01	Modified applicant information and model name.	2021/4/23

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Clause No	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
2.1053 24.238(a)	Radiated Spurious Emissions	APPENDIX B	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) The spot check test channels were verified based on the worst channel results reported in the original FCC ID (ZMOL850GL) filing test report.
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 TEST FACILITY

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

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 355421 and DN: TW1099.

☒ C05 ☐ CB08 ☐ CB11 ☒ CB15 ☐ CB16

1.2 MEASUREMENT UNCERTAINTY

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

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

A. AC power line conducted emissions test:

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

B. Radiated emissions test :

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

NOTE:

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	24 °C, 68 %	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Jay Kao

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer		
Model Name	Lenovo 500e Chromebook Gen 3		
Brand Name	Lenovo		
Model Difference	N/A		
Power Source	DC voltage supplied from External Power Supply.		
Power Rating	Brand : Lenovo M/N : ADLX65YAC3D I/P: 100-240V~1.8A, 50-60Hz O/P: 20V---3.25A 65W / 15V---3A / 9V---2A / 5V---2A 10.0W		
	Brand : Lenovo M/N : ADLX45YLC2D I/P: 100-240V~1.3A 50-60Hz O/P: 20V---2.25A 45W / 15V---3A / 9V---2A / 5V---2A 10.0W		
Products Covered	2 * Adapter: Lenovo/ ADLX65YAC3D, ADLX45YLC2D		
WWAN Module	Fibocom / L850-GL		
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)
	WCDMA II	1850 ~ 1910	1930 ~ 1990
	LTE 2	1850 ~ 1910	1930 ~ 1990
Test Model	Lenovo 500e Chromebook Gen 3		
Sample Status	Engineering Sample		
EUT Modification(s)	N/A		

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Table for Filed Antenna:

Antenna	Manufacturer	Parts Number	Type	Connector	Gain (dBi)	Note
Main	INPAQ	DC33001TN00	PIFA	I-PEX	-0.09	WCDMA Band II LTE Band 2
Aux	INPAQ	DC33001TN10	PIFA	I-PEX	-	RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Radiated Spurious Emissions	WCDMA Band II	TX Mode (CH 9662/9800/9938)	-
	LTE Band 2	TX Mode (CH 18700/18900/19100)	-

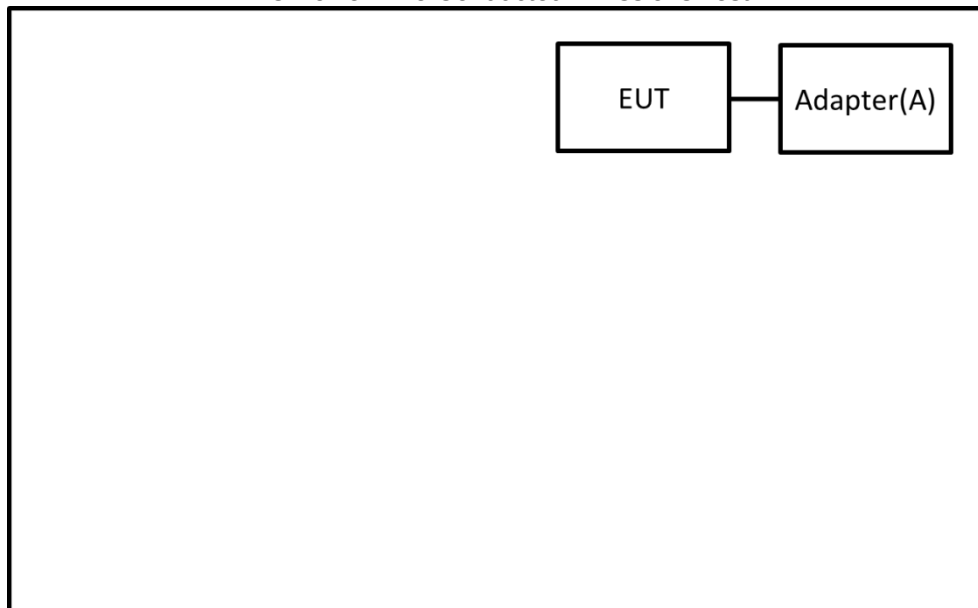
NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) The EUT includes two adapters and both are evaluated. Only the worst case is used for final test.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

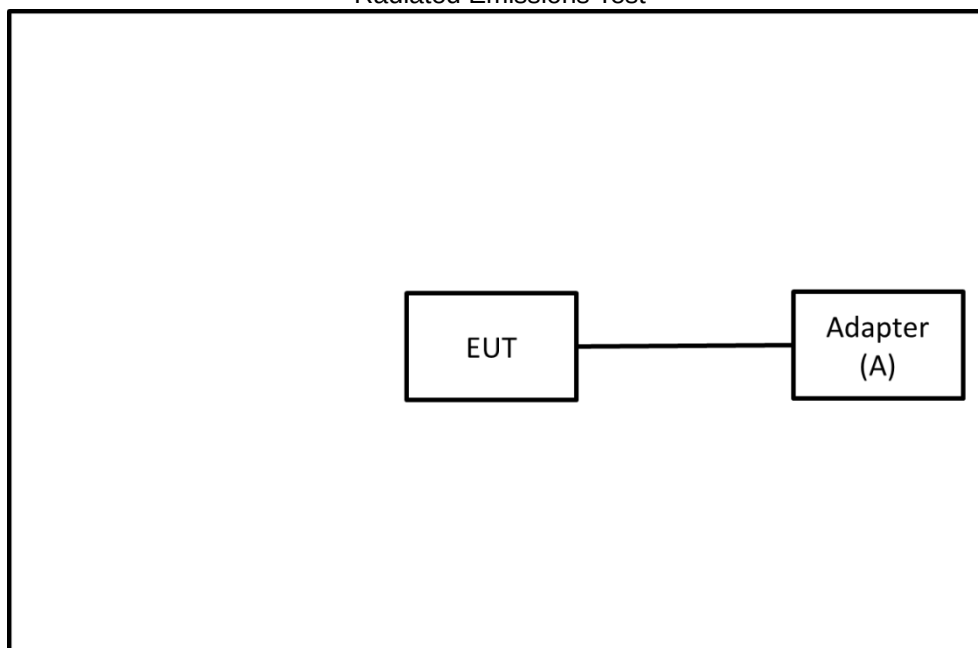
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	Lenovo	ADLX65YAC3D	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.9m	Power Cord	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

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

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

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

The following table is the setting of the receiver.

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

3.2 TEST PROCEDURE

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

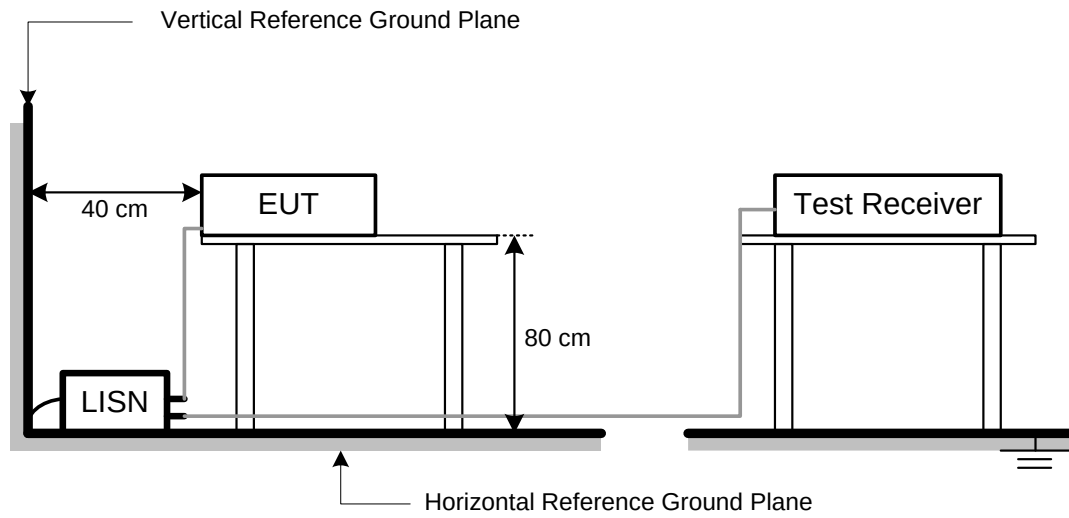
NOTE:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 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		Correct Factor		Measurement Value
-50.43	+	-2.11	=	-52.54

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

4.2 TEST PROCEDURE

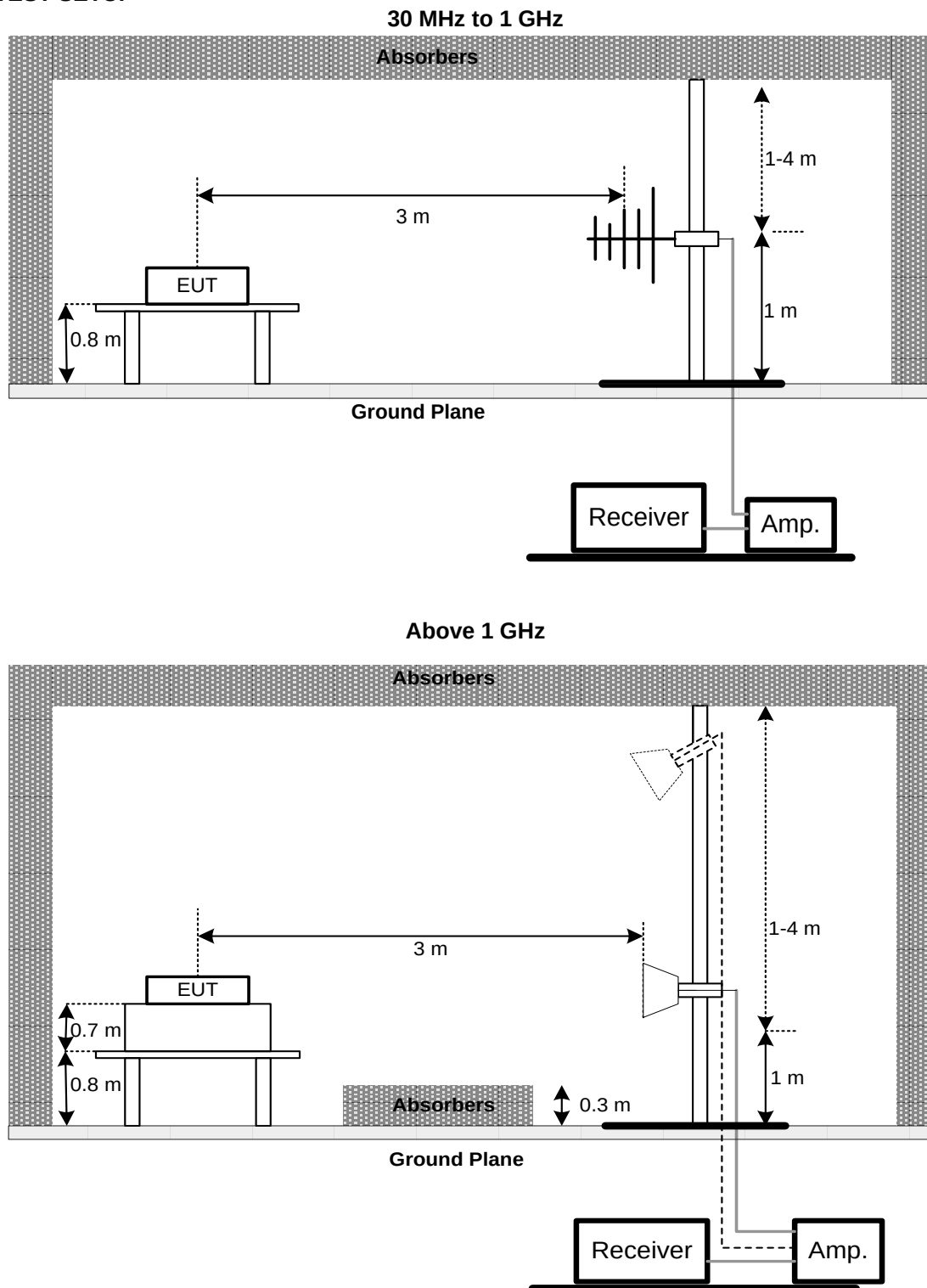
The testing follows FCC KDB 971168 v03r01 Section 6.2.

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX B.

5 LIST OF MEASURING EQUIPMENTS

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

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

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

6 EUT TEST PHOTO

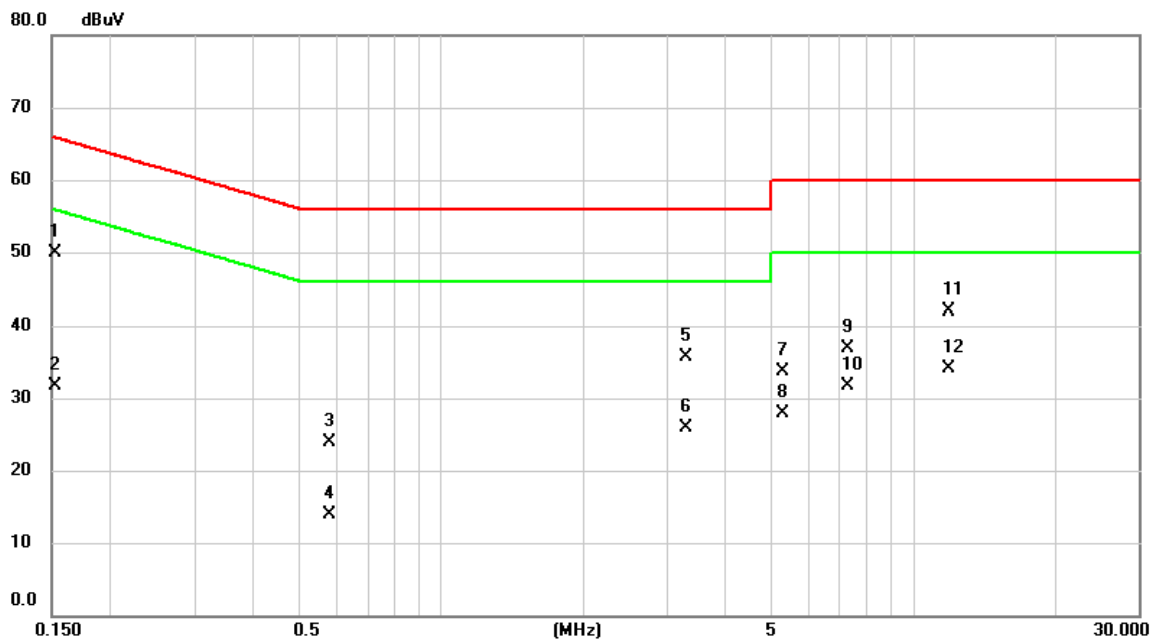
Please refer to document Appendix No.: TP-2101T085-FCCP-1 (APPENDIX-TEST PHOTOS).

7 EUT PHOTOS

Please refer to document Appendix No.: EP-2101T085-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2021/3/31
Test Frequency	-	Phase	Line

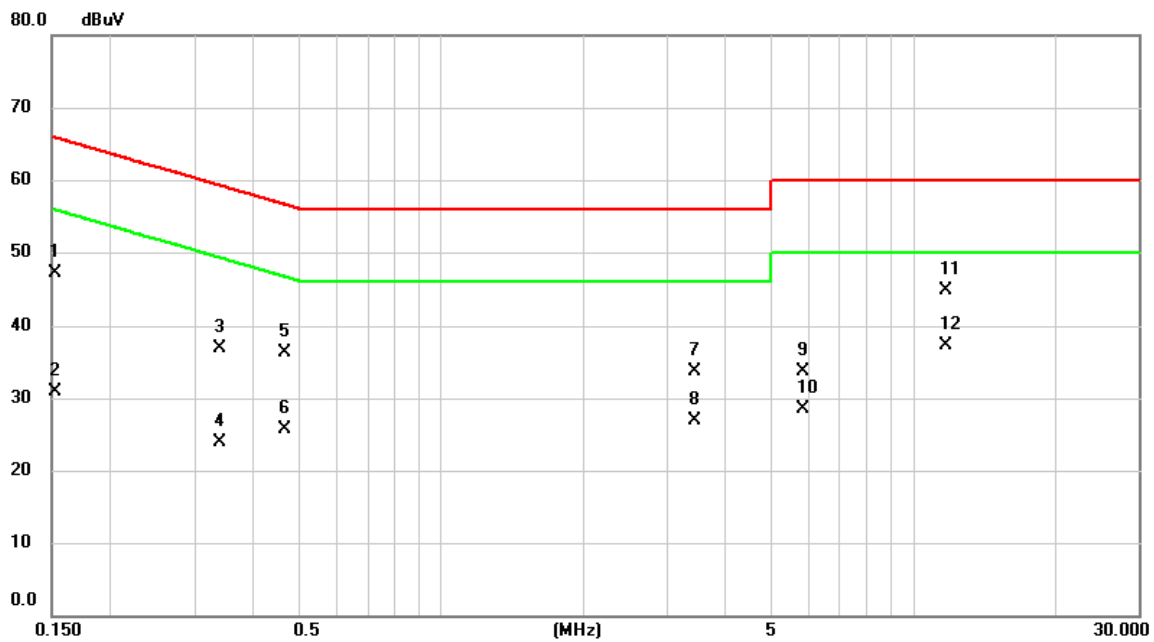


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1522	40.27	9.68	49.95	65.88	-15.93	QP	
2		0.1522	22.07	9.68	31.75	55.88	-24.13	AVG	
3		0.5820	14.17	9.68	23.85	56.00	-32.15	QP	
4		0.5820	4.18	9.68	13.86	46.00	-32.14	AVG	
5		3.2932	25.86	9.77	35.63	56.00	-20.37	QP	
6		3.2932	16.20	9.77	25.97	46.00	-20.03	AVG	
7		5.2867	23.82	9.83	33.65	60.00	-26.35	QP	
8		5.2867	18.14	9.83	27.97	50.00	-22.03	AVG	
9		7.2960	27.13	9.87	37.00	60.00	-23.00	QP	
10		7.2960	21.83	9.87	31.70	50.00	-18.30	AVG	
11		11.8364	32.06	9.93	41.99	60.00	-18.01	QP	
12	*	11.8364	24.26	9.93	34.19	50.00	-15.81	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2021/3/31
Test Frequency	-	Phase	Neutral

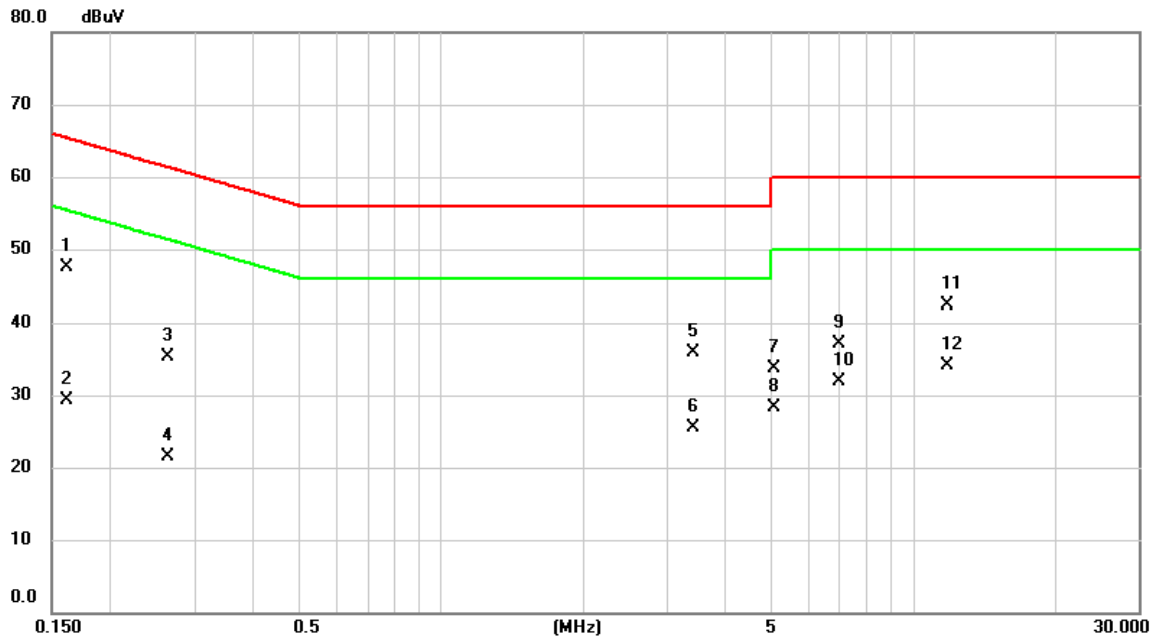


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	37.33	9.68	47.01	65.88	-18.87	QP	
2		0.1522	21.24	9.68	30.92	55.88	-24.96	AVG	
3		0.3390	27.26	9.68	36.94	59.23	-22.29	QP	
4		0.3390	14.27	9.68	23.95	49.23	-25.28	AVG	
5		0.4672	26.60	9.68	36.28	56.56	-20.28	QP	
6		0.4672	15.94	9.68	25.62	46.56	-20.94	AVG	
7		3.4507	23.96	9.77	33.73	56.00	-22.27	QP	
8		3.4507	17.20	9.77	26.97	46.00	-19.03	AVG	
9		5.8267	23.90	9.84	33.74	60.00	-26.26	QP	
10		5.8267	18.60	9.84	28.44	50.00	-21.56	AVG	
11		11.6677	34.87	9.93	44.80	60.00	-15.20	QP	
12	*	11.6677	27.46	9.93	37.39	50.00	-12.61	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2021/3/31
Test Frequency	-	Phase	Line

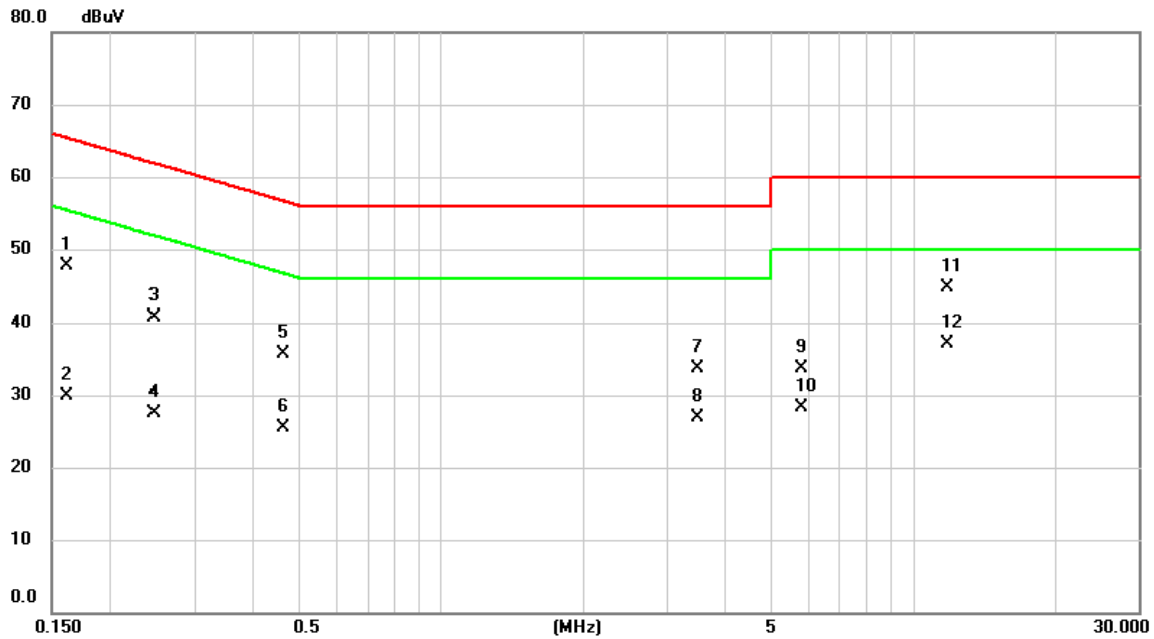


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1613	37.84	9.68	47.52	65.40	-17.88	QP	
2		0.1613	19.70	9.68	29.38	55.40	-26.02	AVG	
3		0.2625	25.61	9.68	35.29	61.35	-26.06	QP	
4		0.2625	11.90	9.68	21.58	51.35	-29.77	AVG	
5		3.4148	26.09	9.77	35.86	56.00	-20.14	QP	
6		3.4148	15.67	9.77	25.44	46.00	-20.56	AVG	
7		5.0730	23.96	9.83	33.79	60.00	-26.21	QP	
8		5.0730	18.47	9.83	28.30	50.00	-21.70	AVG	
9		6.9923	27.20	9.87	37.07	60.00	-22.93	QP	
10		6.9923	21.97	9.87	31.84	50.00	-18.16	AVG	
11		11.7398	32.47	9.93	42.40	60.00	-17.60	QP	
12	*	11.7398	24.24	9.93	34.17	50.00	-15.83	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2021/3/31
Test Frequency	-	Phase	Neutral



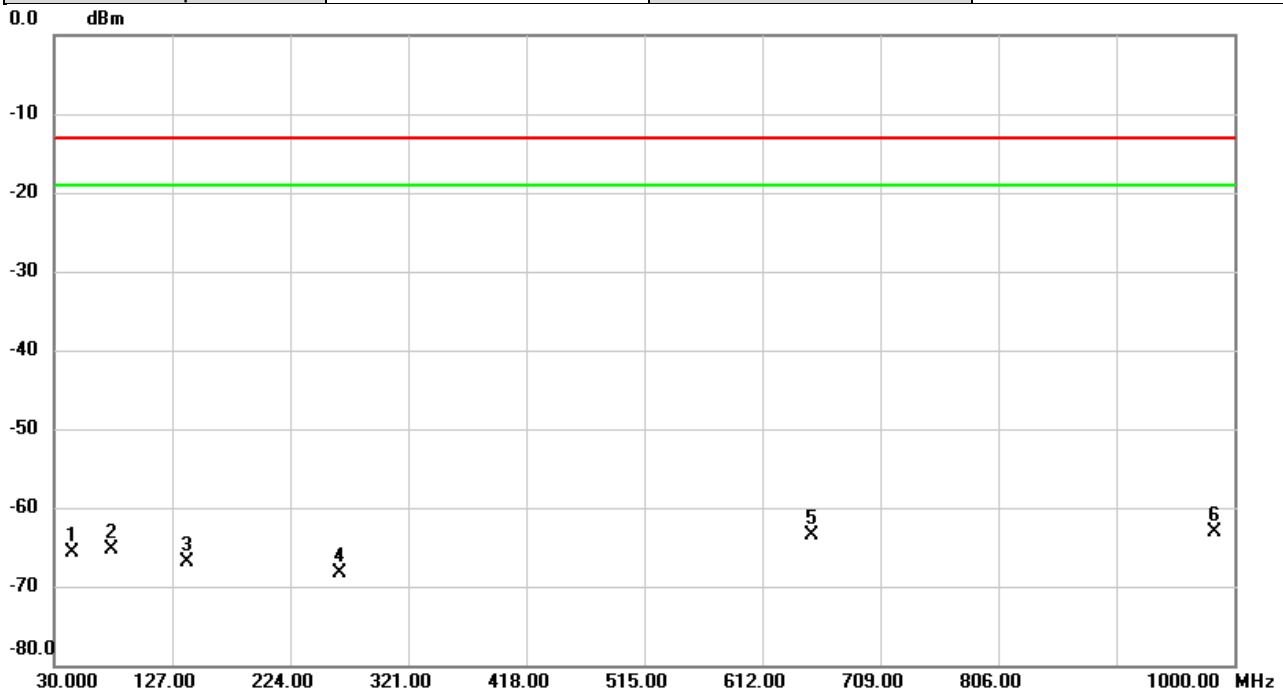
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1613	37.96	9.68	47.64	65.40	-17.76	QP	
2		0.1613	20.19	9.68	29.87	55.40	-25.53	AVG	
3		0.2468	31.09	9.68	40.77	61.86	-21.09	QP	
4		0.2468	17.92	9.68	27.60	51.86	-24.26	AVG	
5		0.4627	26.06	9.68	35.74	56.64	-20.90	QP	
6		0.4627	15.87	9.68	25.55	46.64	-21.09	AVG	
7		3.4958	24.02	9.77	33.79	56.00	-22.21	QP	
8		3.4958	17.05	9.77	26.82	46.00	-19.18	AVG	
9		5.7862	23.77	9.84	33.61	60.00	-26.39	QP	
10		5.7862	18.51	9.84	28.35	50.00	-21.65	AVG	
11		11.7533	34.73	9.93	44.66	60.00	-15.34	QP	
12	*	11.7533	27.16	9.93	37.09	50.00	-12.91	AVG	

REMARKS:

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

APPENDIX B RADIATED SPURIOUS EMISSIONS

Test Mode	WCDMA Band II	Test Date	2021/4/2
Test Channel	CH9800	Polarization	Vertical
Temp	22°C	Hum.	67%

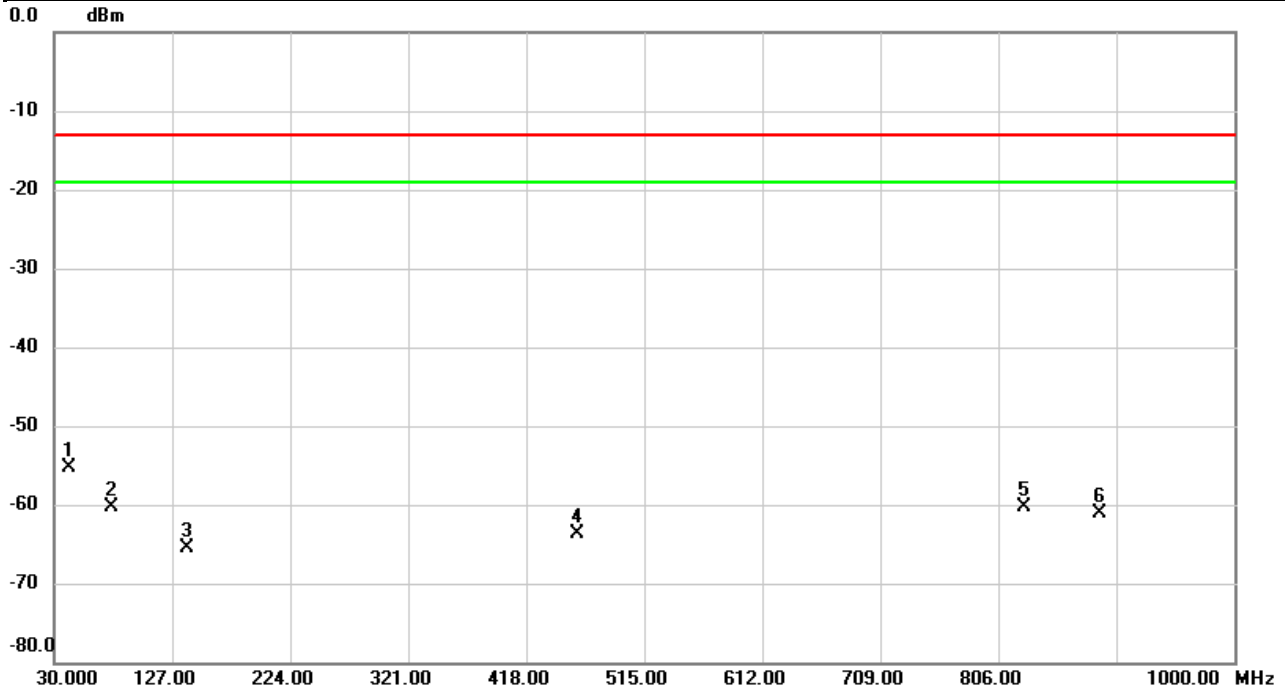


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		44.7117	-64.35	-1.31	-65.66	-13.00	-52.66	peak	
2		76.6247	-63.16	-2.23	-65.39	-13.00	-52.39	peak	
3		139.7717	-69.67	2.71	-66.96	-13.00	-53.96	peak	
4		264.1903	-75.91	7.70	-68.21	-13.00	-55.21	peak	
5		652.1257	-76.20	12.70	-63.50	-13.00	-50.50	peak	
6	*	983.5100	-77.31	14.16	-63.15	-13.00	-50.15	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/4/2
Test Channel	CH9800	Polarization	Horizontal
Temp	22°C	Hum.	67%

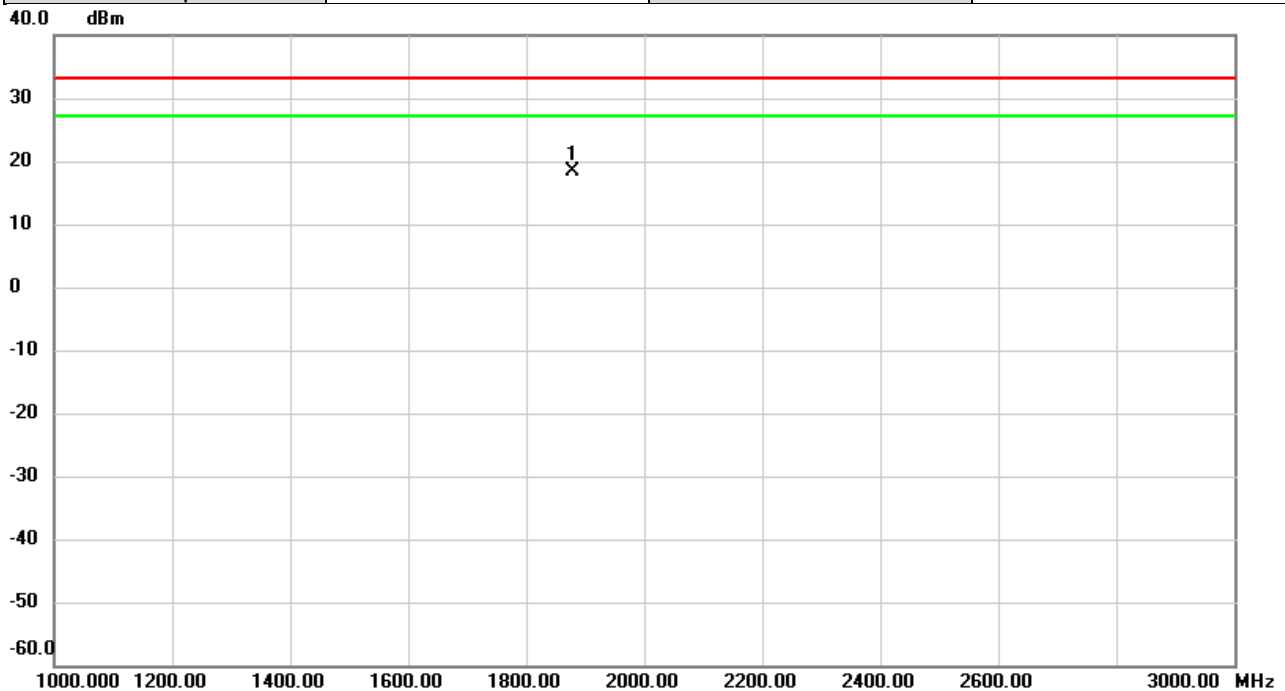


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	42.7070	-71.64	16.39	-55.25	-13.00	-42.25	peak	
2		76.5600	-65.43	5.22	-60.21	-13.00	-47.21	peak	
3		139.5776	-68.19	2.70	-65.49	-13.00	-52.49	peak	
4		459.7423	-76.20	12.43	-63.77	-13.00	-50.77	peak	
5		827.1783	-76.11	15.86	-60.25	-13.00	-47.25	peak	
6		889.4523	-77.05	15.87	-61.18	-13.00	-48.18	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9800	Polarization	Vertical
Temp	22°C	Hum.	67%

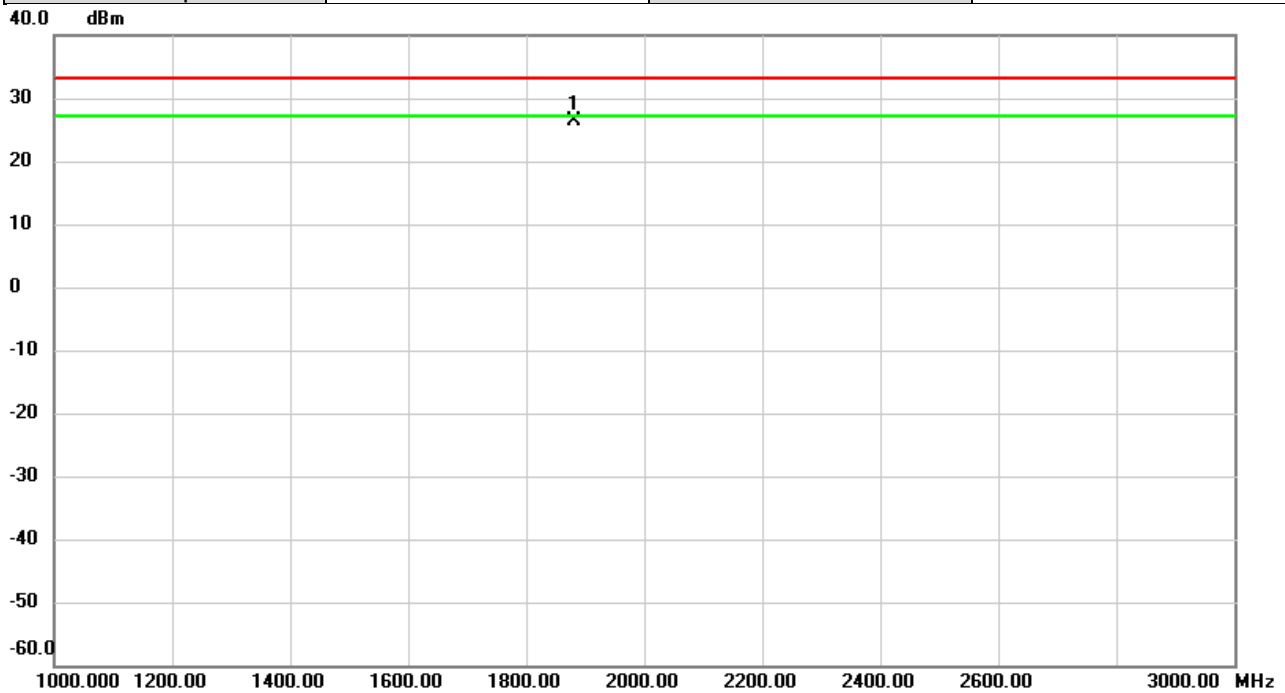


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1879.267	-21.80	40.19	18.39	33.01	-14.62	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9800	Polarization	Horizontal
Temp	22°C	Hum.	67%

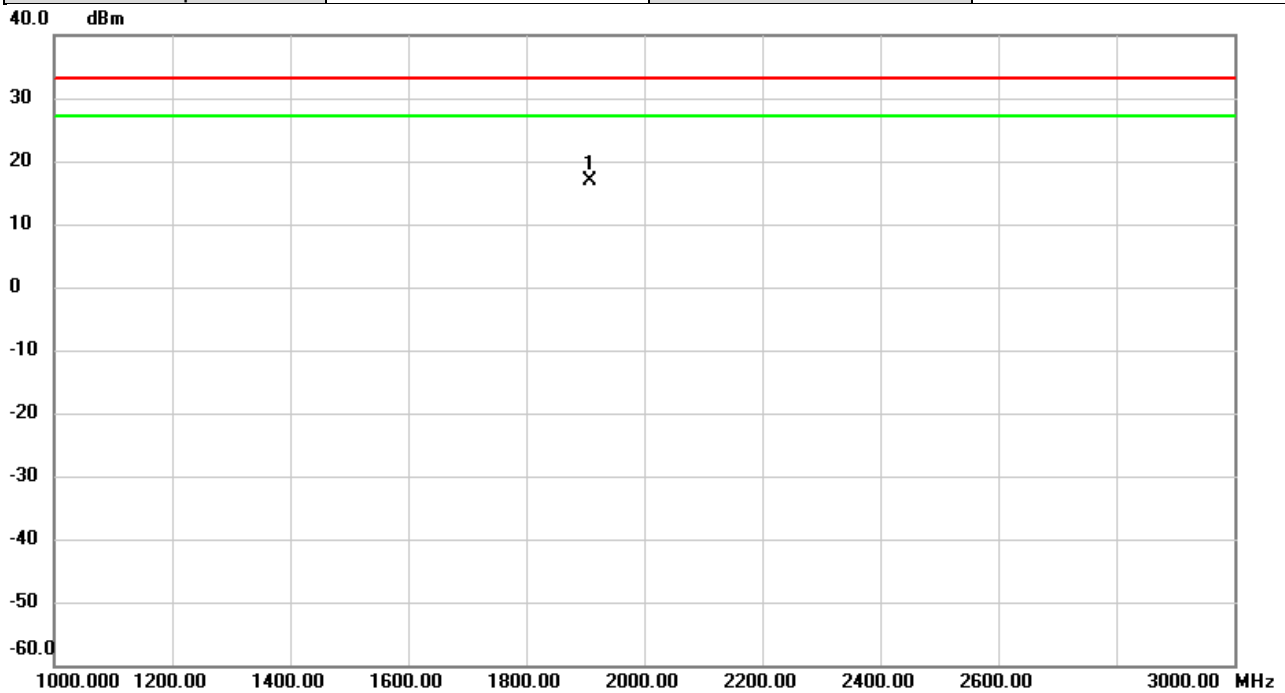


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1881.333	-14.45	40.73	26.28	33.01	-6.73	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9938	Polarization	Vertical
Temp	22°C	Hum.	67%

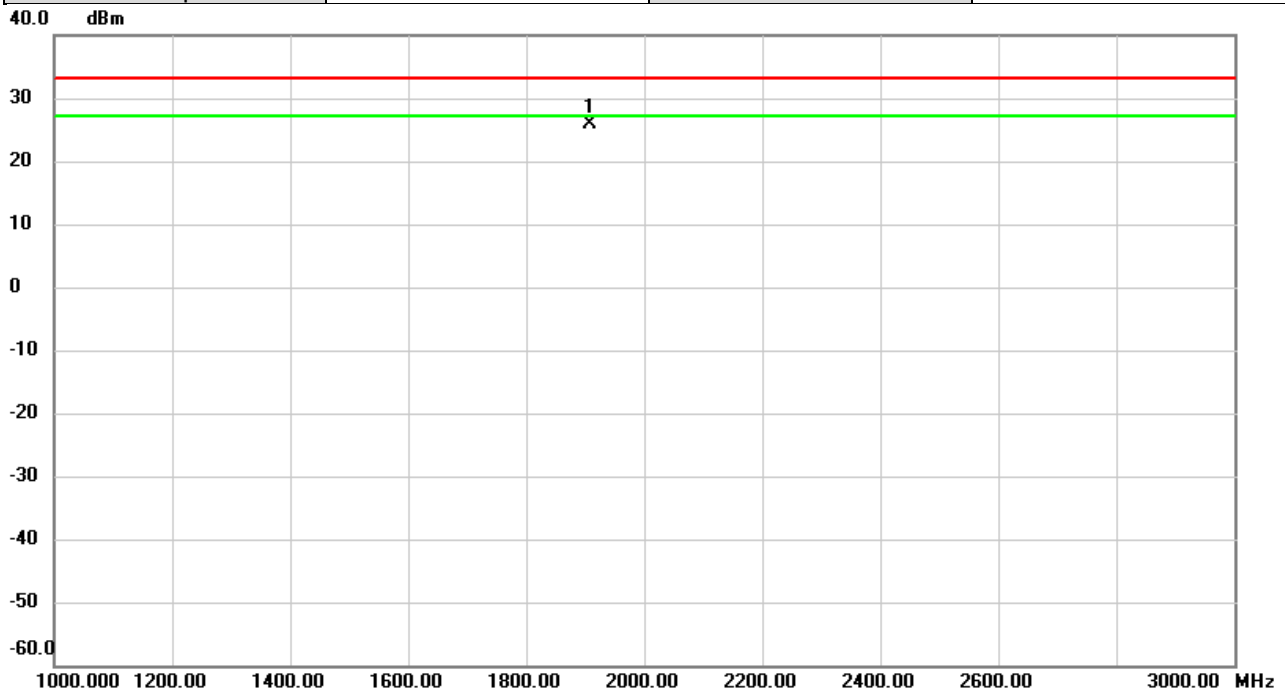


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1906.867	-23.40	40.31	16.91	33.01	-16.10	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9938	Polarization	Horizontal
Temp	22°C	Hum.	67%

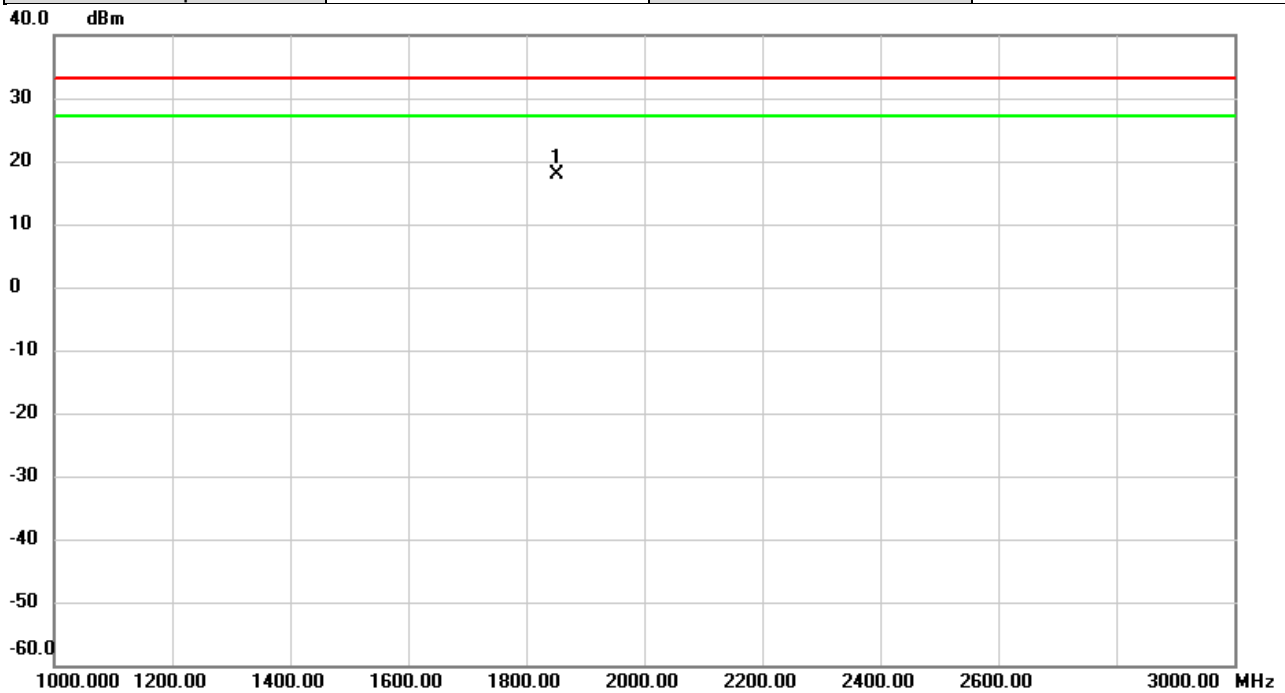


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1906.933	-14.89	40.82	25.93	33.01	-7.08	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9662	Polarization	Vertical
Temp	22°C	Hum.	67%

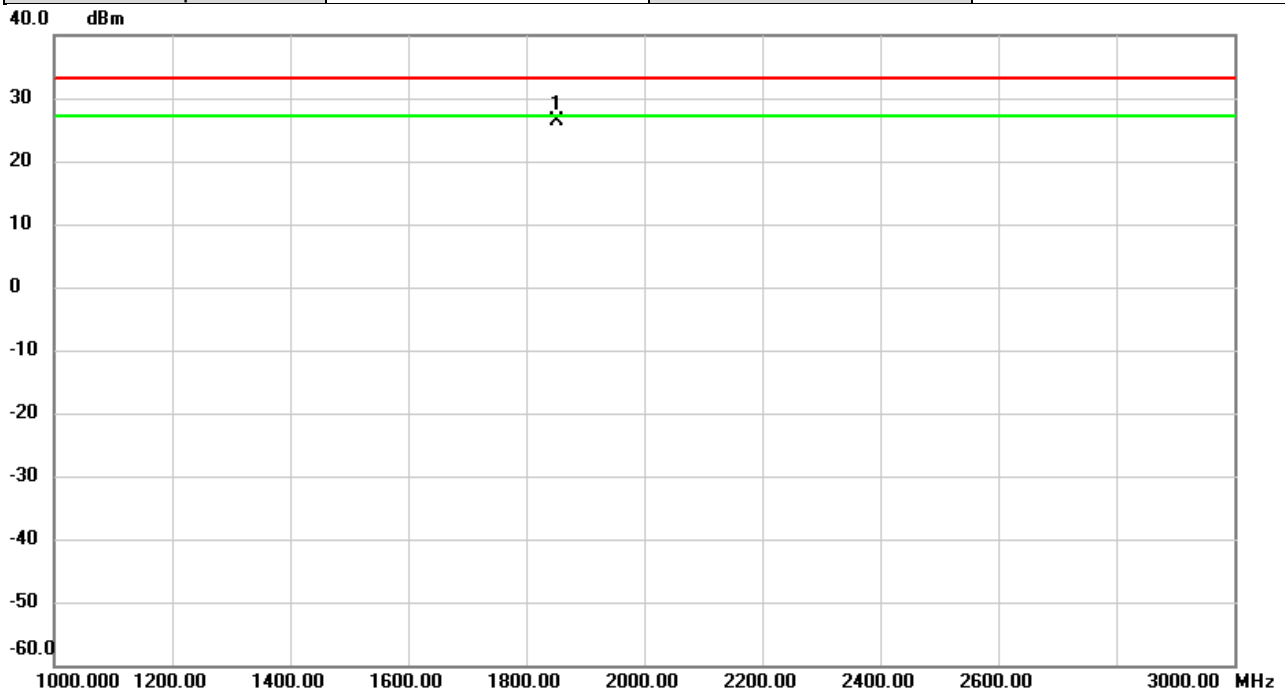


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1851.800	-22.11	40.08	17.97	33.01	-15.04	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/3/31
Test Channel	CH9662	Polarization	Horizontal
Temp	22°C	Hum.	67%

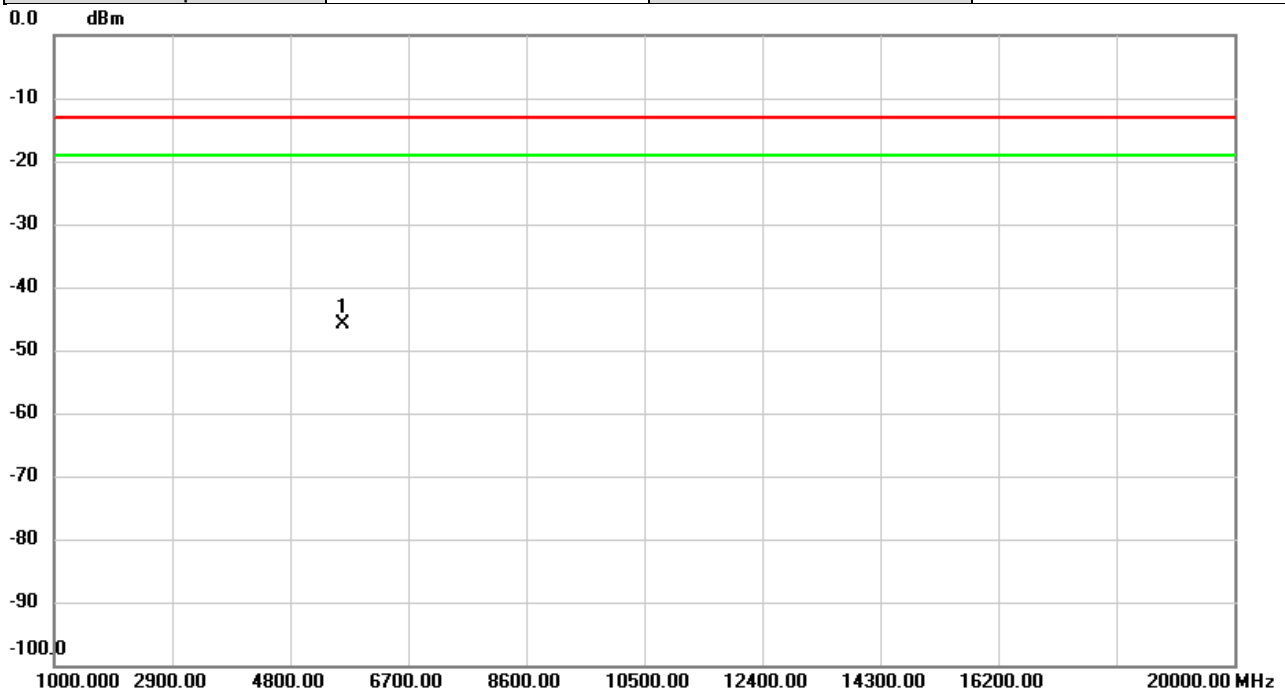


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1851.667	-14.23	40.62	26.39	33.01	-6.62	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/4/1
Test Channel	CH9800	Polarization	Vertical
Temp	22°C	Hum.	67%

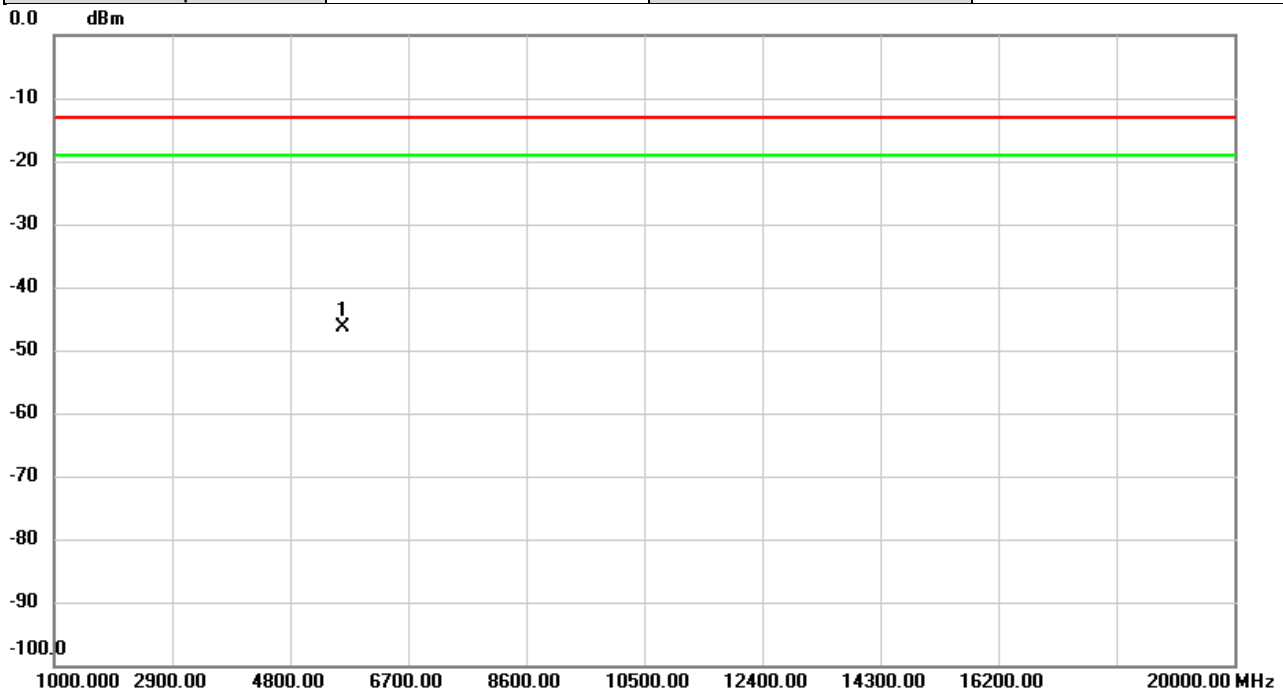


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5636.633	-48.87	3.09	-45.78	-13.00	-32.78	peak	

REMARKS:

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

Test Mode	WCDMA Band II	Test Date	2021/4/1
Test Channel	CH9800	Polarization	Horizontal
Temp	22°C	Hum.	67%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5642.967	-49.56	3.23	-46.33	-13.00	-33.33	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/2
Test Channel	CH18900	Polarization	Vertical
Temp	22°C	Hum.	67%

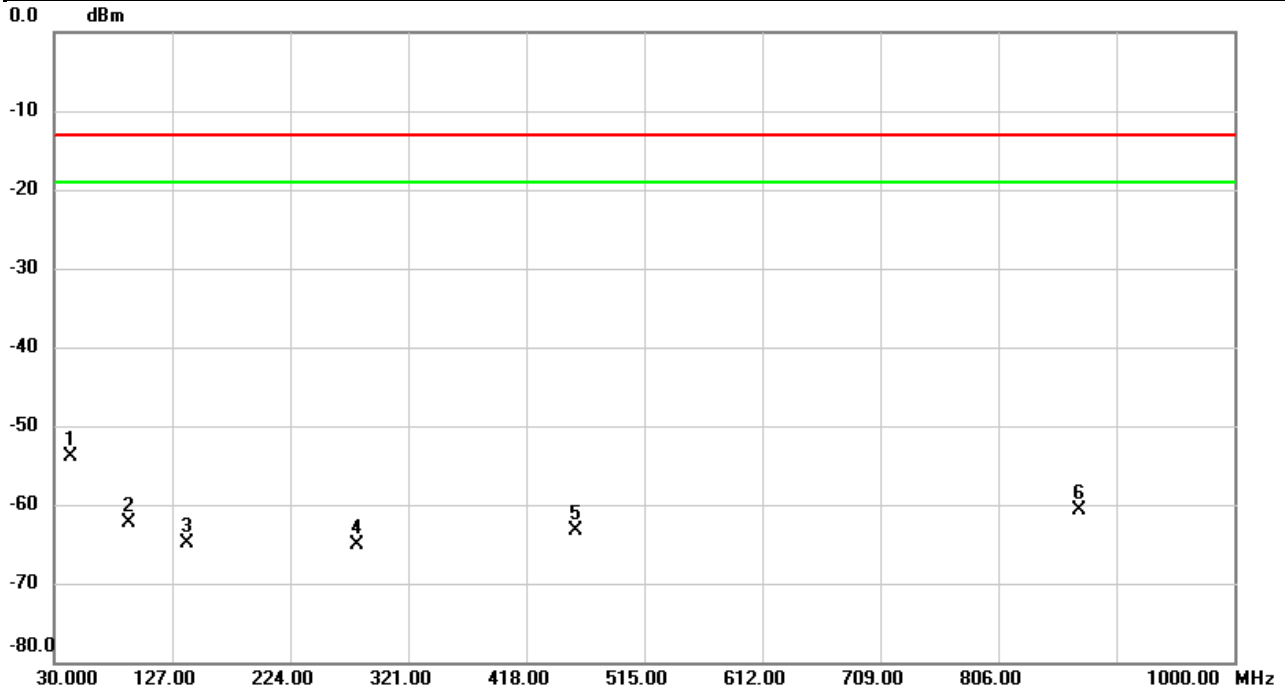


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	44.1943	-61.77	-1.30	-63.07	-13.00	-50.07	peak	
2		139.6423	-70.53	2.68	-67.85	-13.00	-54.85	peak	
3		280.0660	-74.58	7.66	-66.92	-13.00	-53.92	peak	
4		339.4947	-74.76	6.84	-67.92	-13.00	-54.92	peak	
5		673.7890	-76.59	12.68	-63.91	-13.00	-50.91	peak	
6		957.9020	-76.65	12.96	-63.69	-13.00	-50.69	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/2
Test Channel	CH18900	Polarization	Horizontal
Temp	22°C	Hum.	67%

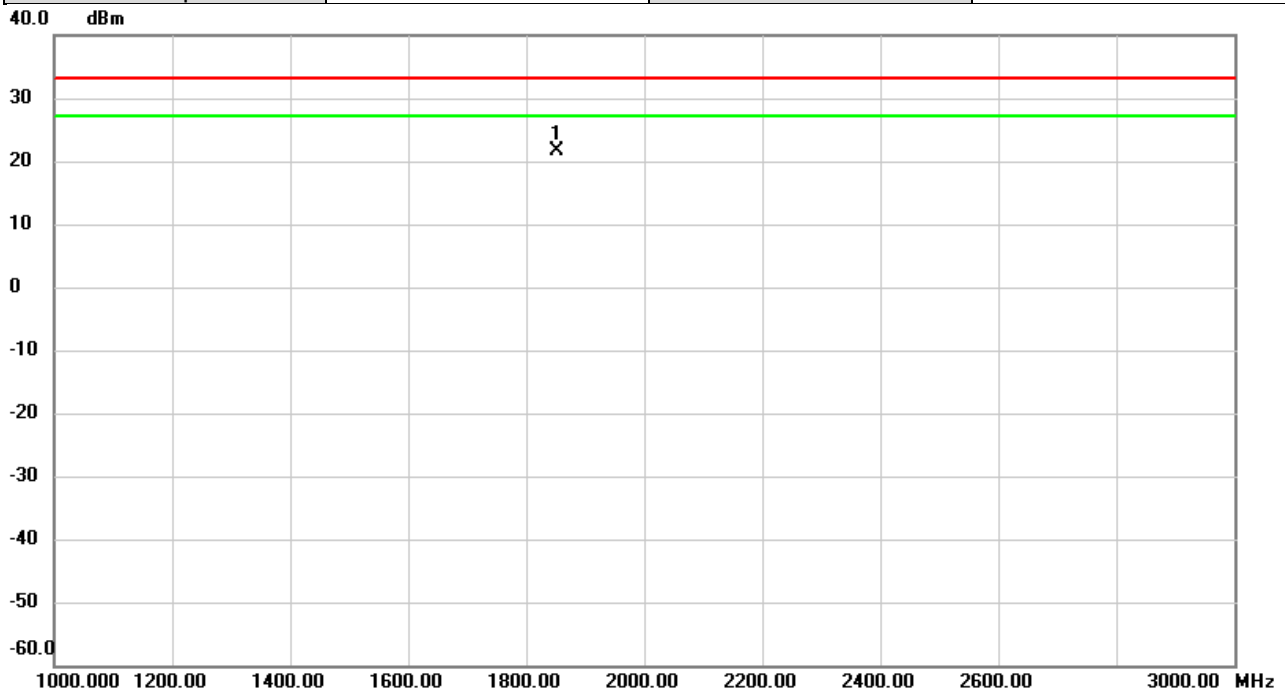


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	44.0973	-69.87	16.03	-53.84	-13.00	-40.84	peak	
2		91.6596	-65.82	3.61	-62.21	-13.00	-49.21	peak	
3		139.5776	-67.55	2.70	-64.85	-13.00	-51.85	peak	
4		279.5810	-65.33	0.22	-65.11	-13.00	-52.11	peak	
5		458.2873	-75.79	12.42	-63.37	-13.00	-50.37	peak	
6		872.2186	-76.80	16.11	-60.69	-13.00	-47.69	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18700	Polarization	Vertical
Temp	22°C	Hum.	67%

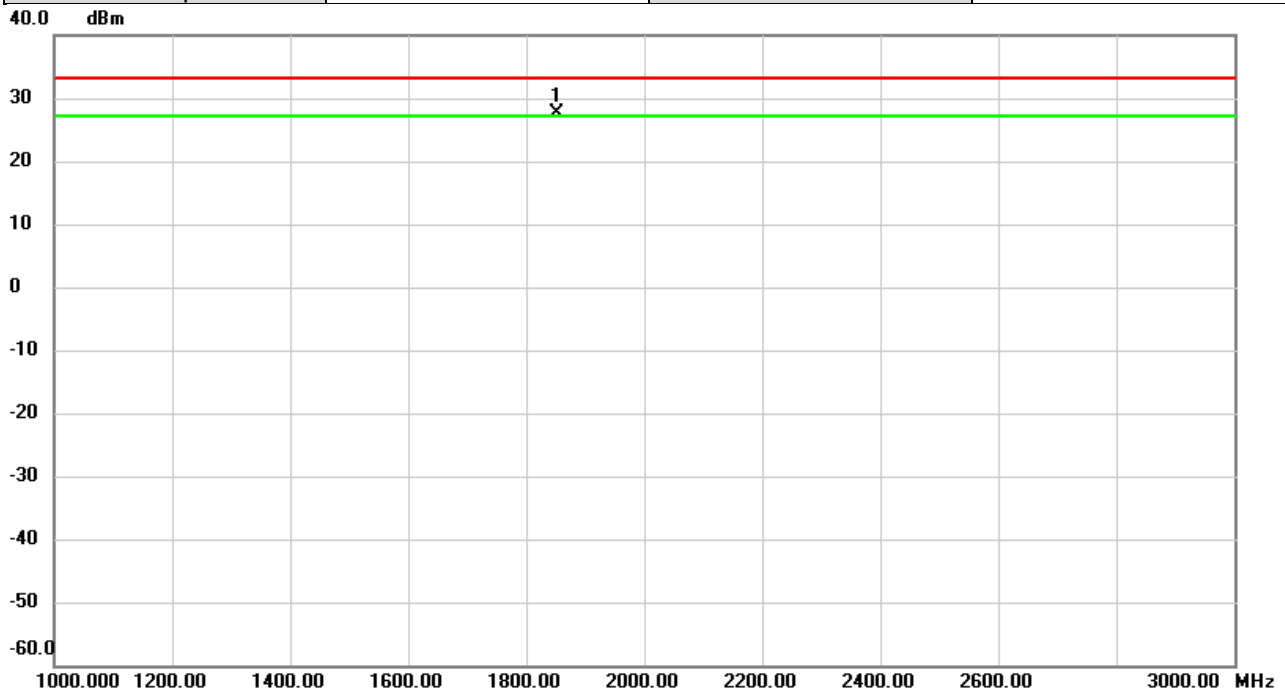


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1851.400	-18.41	40.07	21.66	33.01	-11.35	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18700	Polarization	Horizontal
Temp	22°C	Hum.	67%

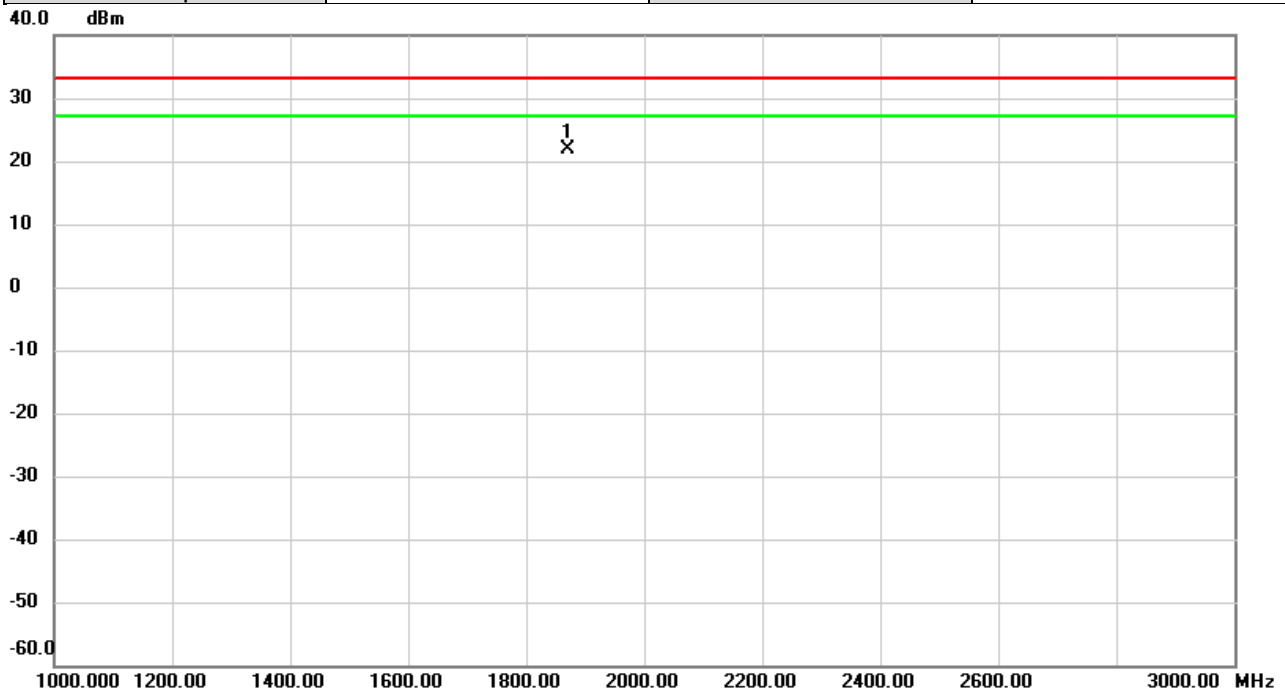


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1851.467	-12.92	40.62	27.70	33.01	-5.31	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18900	Polarization	Vertical
Temp	22°C	Hum.	67%

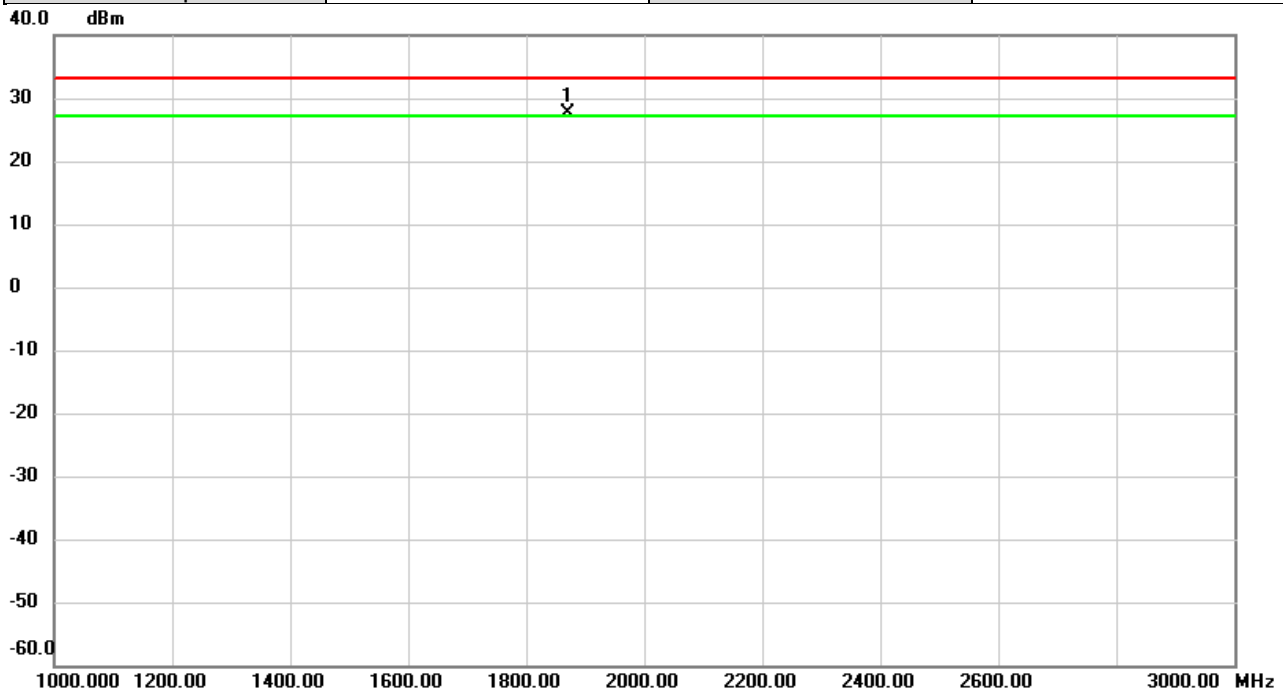


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1871.467	-18.30	40.16	21.86	33.01	-11.15	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18900	Polarization	Horizontal
Temp	22°C	Hum.	67%

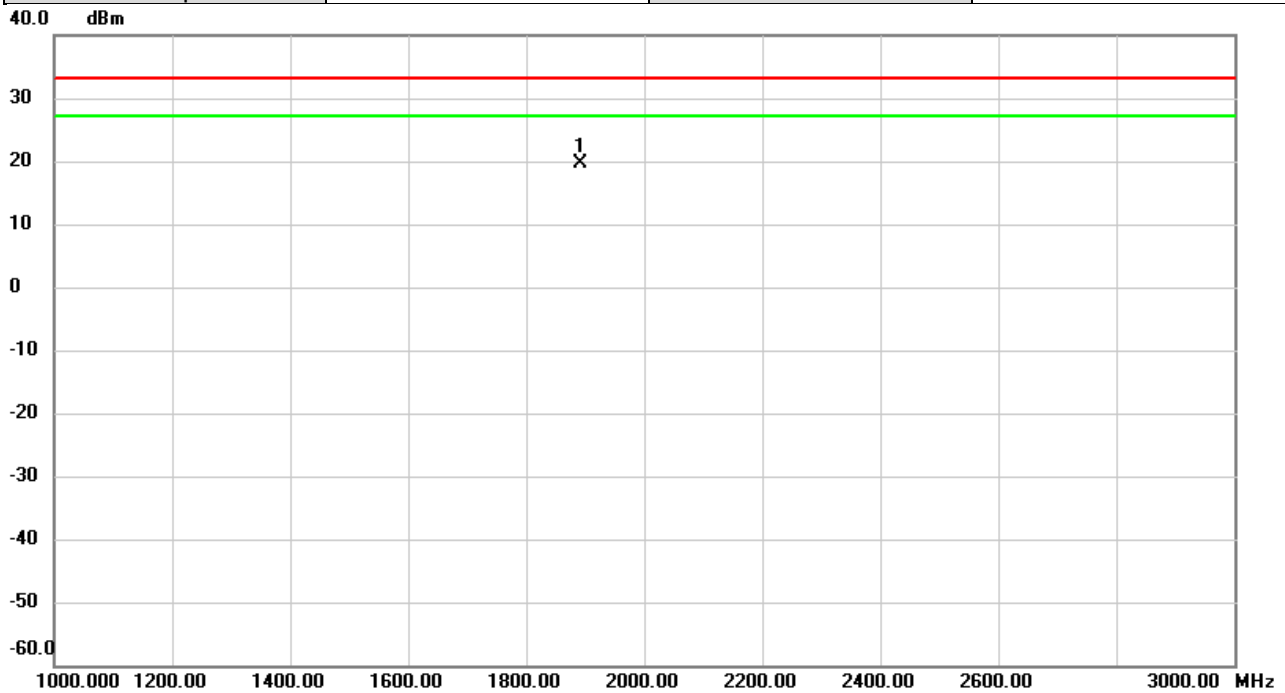


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1871.400	-12.97	40.69	27.72	33.01	-5.29	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH19100	Polarization	Vertical
Temp	22°C	Hum.	67%

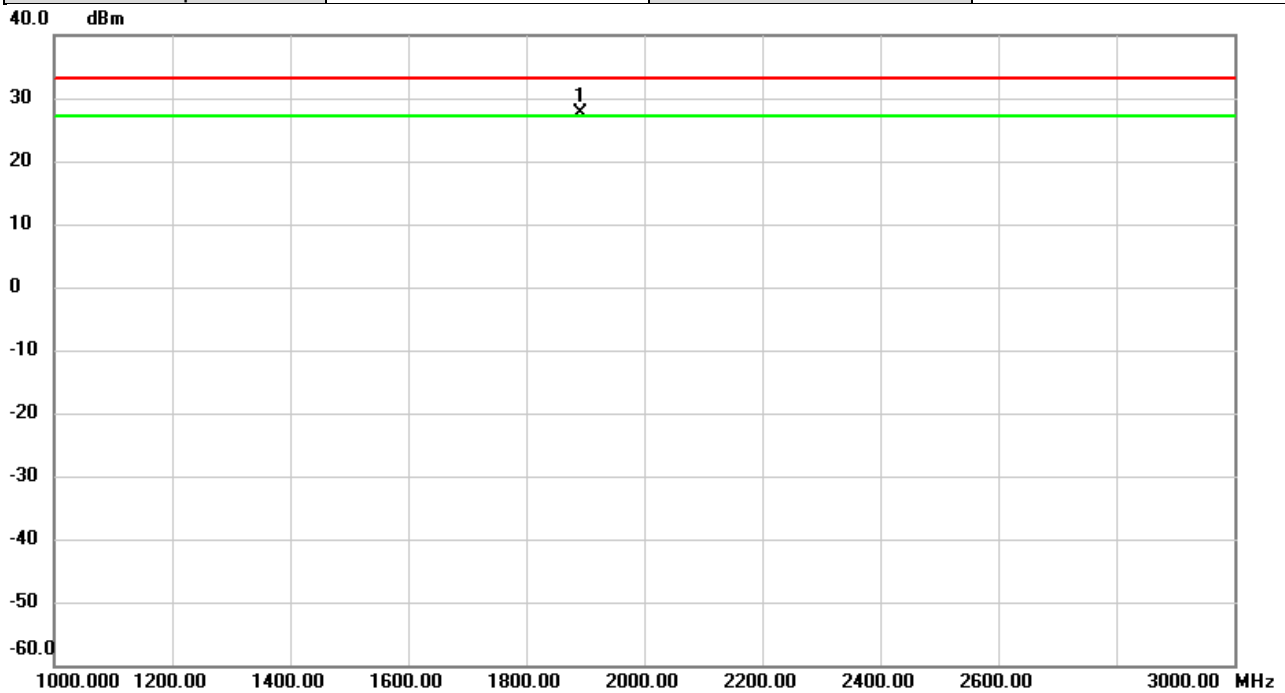


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1891.400	-20.59	40.25	19.66	33.01	-13.35	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH19100	Polarization	Horizontal
Temp	22°C	Hum.	67%

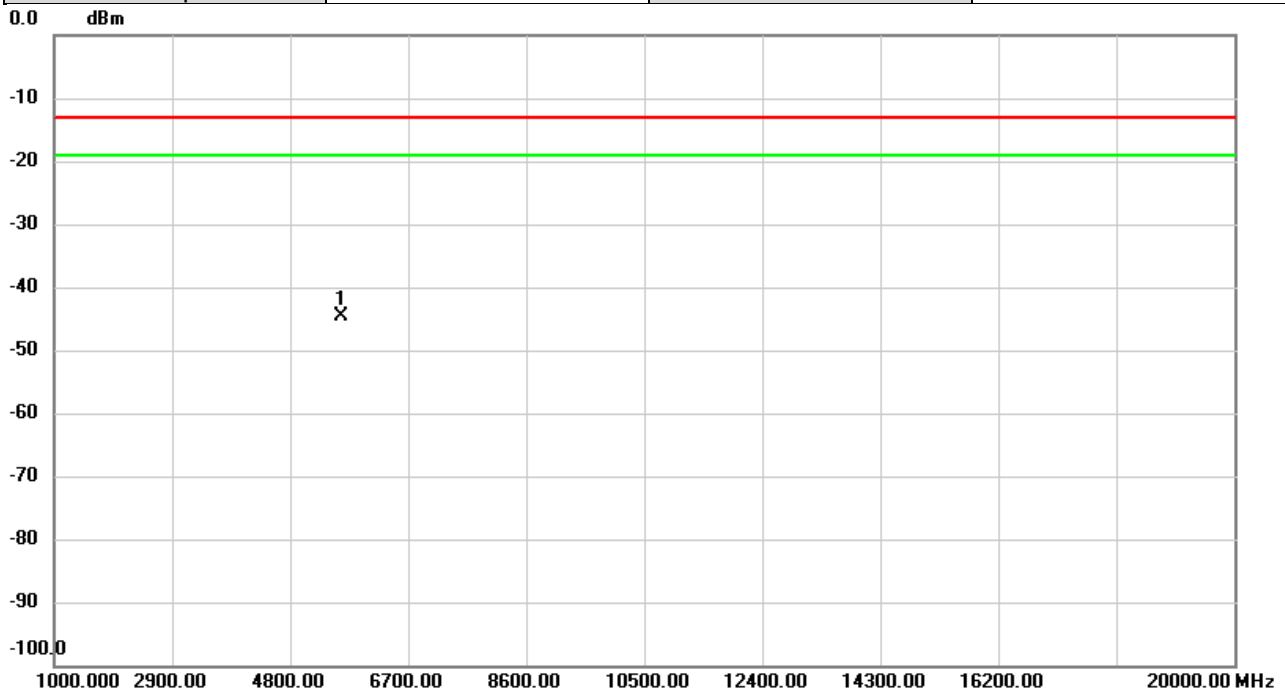


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1891.467	-13.25	40.76	27.51	33.01	-5.50	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18900	Polarization	Vertical
Temp	22°C	Hum.	67%

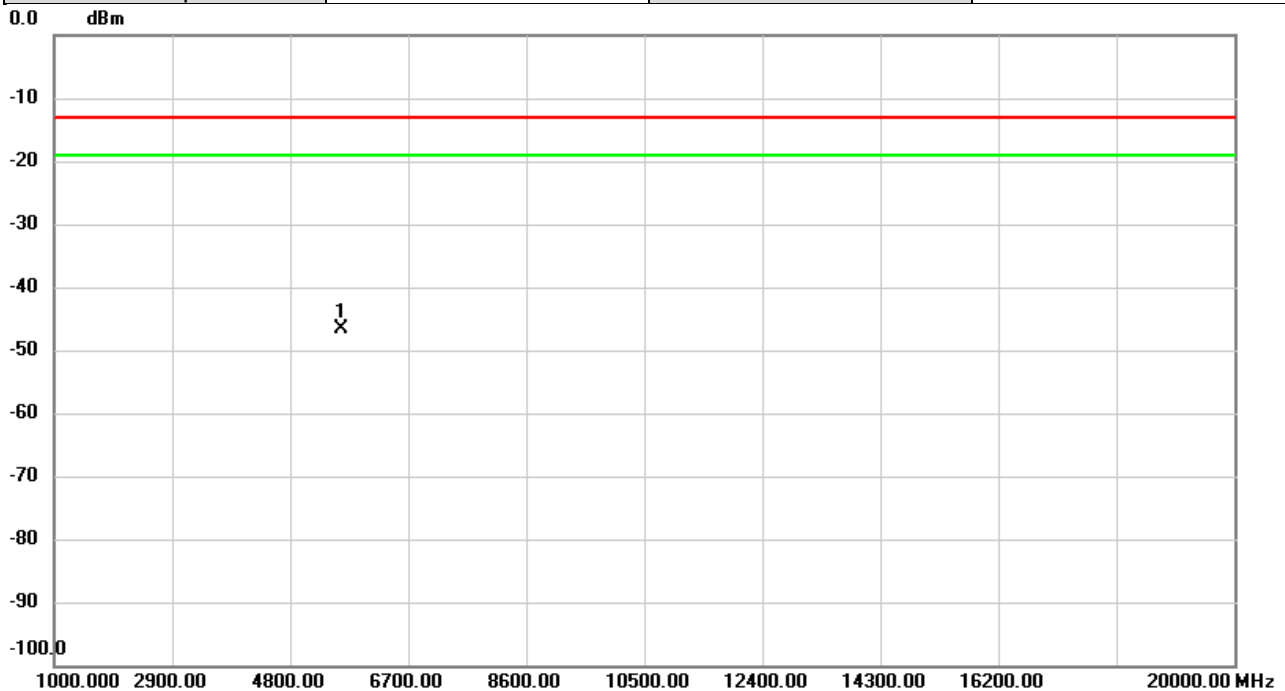


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5613.200	-47.34	2.82	-44.52	-13.00	-31.52	peak	

REMARKS:

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

Test Mode	LTE Band 2	Test Date	2021/4/1
Test Channel	CH18900	Polarization	Horizontal
Temp	22°C	Hum.	67%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5613.200	-49.71	3.20	-46.51	-13.00	-33.51	peak	

REMARKS:

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

End of Test Report