



Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000186501

Page: 1 of 16

TEST REPORT

Application No.: KSCR2210001865AT (FYCR2209000385AT)
FCC ID: OJFDMRUG235
Applicant: Corning Optical Communication LLC
Address of Applicant: 6 Concord Road, Shrewsbury, Massachusetts 01545 United States
Manufacturer: Comba Network Systems Company Limited
Address of Manufacturer: No.10 Shenzhou Road, Guangzhou Science City, Guangzhou, Guangdong
Equipment Under Test (EUT):
EUT Name: Digital Medium-power Remote Unit High Band supporting 3.5G
Model No.: dMRU-G2-35
Trade Mark: Corning
Standard(s): FCC Part 96.47
FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification
WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines
Date of Receipt: 2022-09-21
Date of Test: 2022-10-08 to 2022-10-09
Date of Issue: 2022-10-10

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-10-10	/

Authorized for issue by:			
		<i>Damon Zhou</i>	
		<u>Damon Zhou / Project Engineer</u>	
		<i>Eric Lin</i>	
		<u>Eric Lin / Reviewer</u>	



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2 Test Summary

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100-240V, 50/60Hz
Test voltage:	AC 110V
Cable:	AC mains (unshielded, 4m)
Sample Type:	Digital Medium-power Remote Unit High Band supporting 3.5G
Support Network:	LTE/NR Band 48
Frequency range:	3550-3700 MHz
Modulation Type:	PSK/QPSK/QAM/16QAM/64QAM/256QAM
Support Channel Bandwidth:	LTE: 10MHz/20MHz 5G NR: 10MHz/20MHz/40MHz/50MHz/60MHz/80MHz/100MHz
Normal Output Power:	11dBm/10MHz
System Gain:	-13dB
Antenna Type:	External antenna
Antenna Gain:	5dBi
Antenna Port:	2*2 MIMO
Hardware version:	Version 1
Software version:	DMRUHG2_V01.00.01.18

4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	RF conducted power	$\pm 0.75\text{dB}$
3	Temperature test	$\pm 1^{\circ}\text{C}$
4	Humidity test	$\pm 3\%$
5	Supply voltages	$\pm 1.5\%$
6	Time	$\pm 3\%$

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
OMC	Lanner Electronics Inc.	LICA-1513A	LR202002004054
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	mBS31001H (FCC ID: 2AG32MBS3100196N)	1202000240194DP0023
Base station	Mavenir	MU44UA (FCC ID: 2AWAS-MU44UA)	LX2151MU44UA000007



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DP	Dell PowerEdge R740	Master Line 5.0.1.533	/
USB Dongle	Smawave	SDF311-a	DF311a02203700001
Phone	/	/	/



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

4.5 Test Facility

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Laptop	Lenovo	L480	N/A	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M001-2	2022/7/13	2023/7/12
Shield Room	研创	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	14	2021/10/16	2022/10/15
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Anymetre	TH603	CZ700001(4/7)	2021/10/14	2022/10/13



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6 Test Method and Environment

6.1 End User Device Conformance and Performance

Test Requirement: FCC Part 96.47

Test Method: WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25deg. C, 65%RH

6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test

Specification, use the certified Base station CBSD as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE

1. Setup with frequency 3550-3560MHz and power level 23dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable CBSD service ;
5. Check EUD stops transmission within 10 seconds;

6. Setup with frequency 3600-3610MHz and power level 5dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.

For 5G NR

1. Setup with frequency 3620-3640MHz and power level 23dBm/MHz;
2. Enable CBSD service ;



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3. Check EUD Tx Frequency and power;
4. Disable CBSD service ;
5. Check EUD stops transmission within 10 seconds;

6. Setup with frequency 3570-3590MHz and power level 5dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.



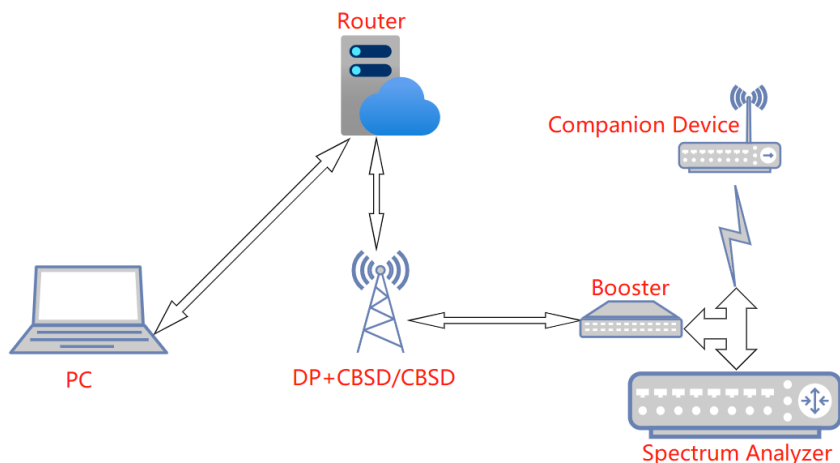
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6.5 Test Setup



UUT Connect to certified CBSD by RF cable, the companion device is a end user device



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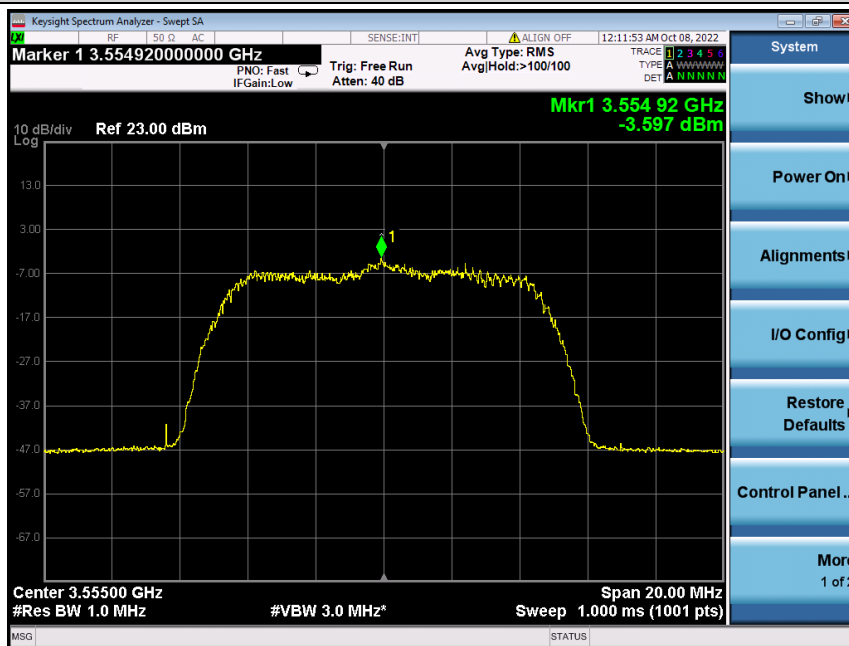
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6.6 Test Result

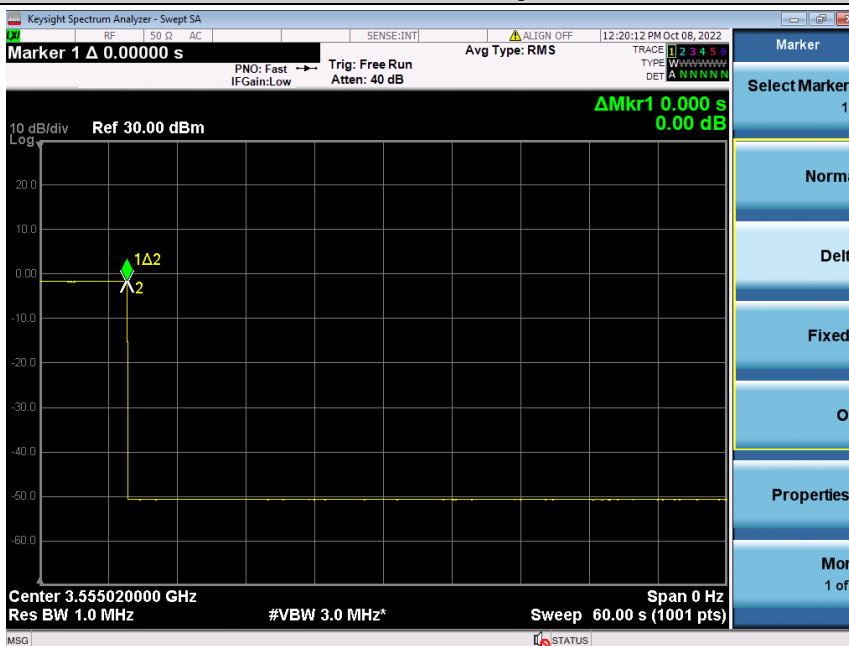
Setup with frequency 3550-3560MHz and power level 23dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD = $-3.597 + 3 + 3.01 = 2.413$ dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 0dBi.
3.01dB is corrected antenna gain and MIMO power factor

EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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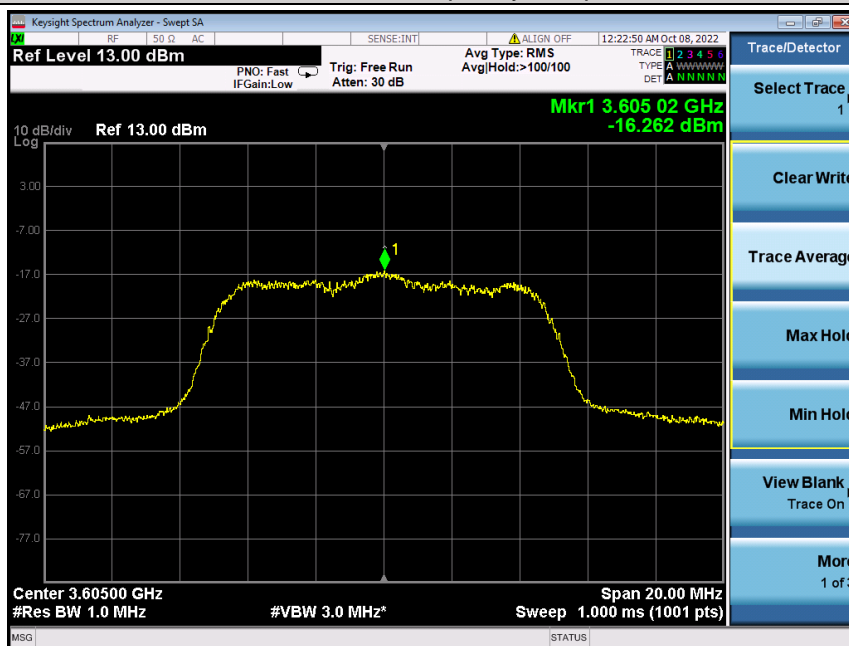
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

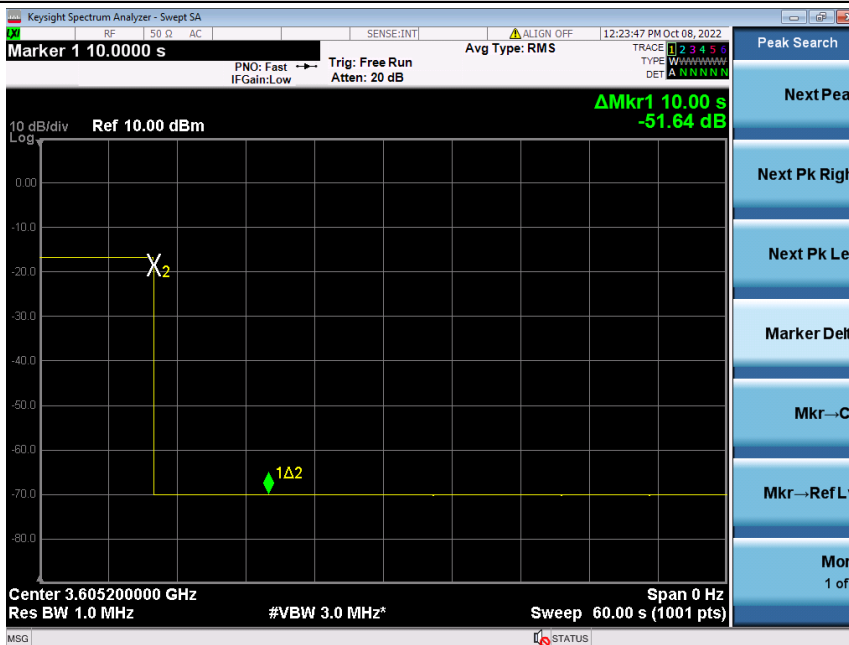
Setup with frequency 3600-3610MHz and power level 5dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD=-16.262+3+3.01=-10.252dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 0dBi.
3.01dB is corrected antenna gain and MIMO power factor

EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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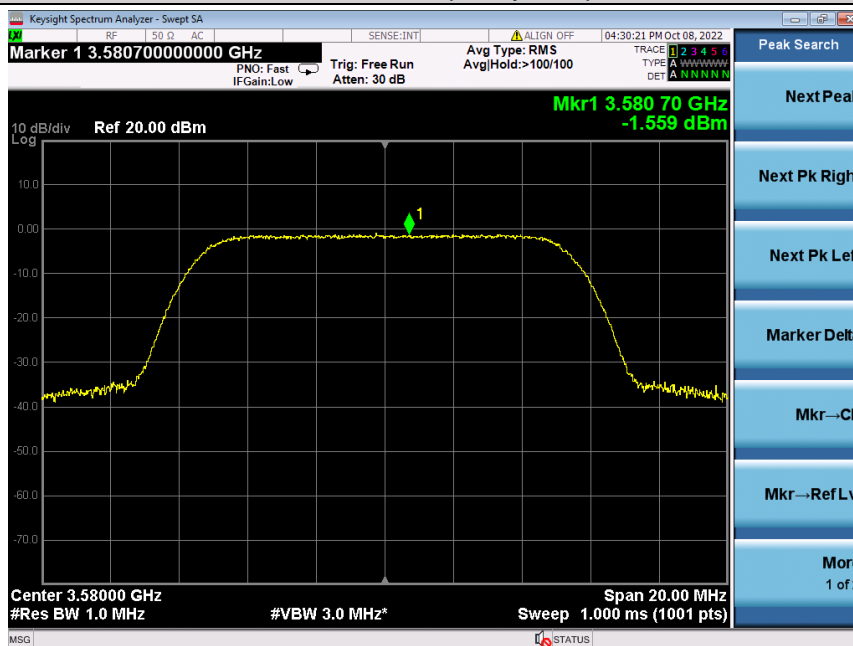
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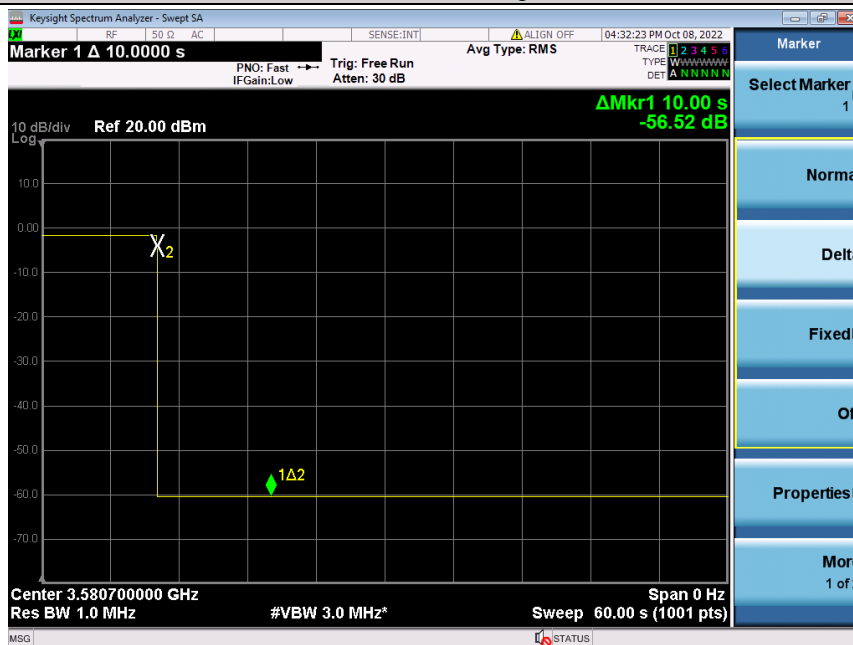
Setup with frequency 3575-3585MHz and power level 23dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD=-1.559+3+3.01=4.451dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 0dBi.
3.01dB is corrected antenna gain and MIMO power factor

EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



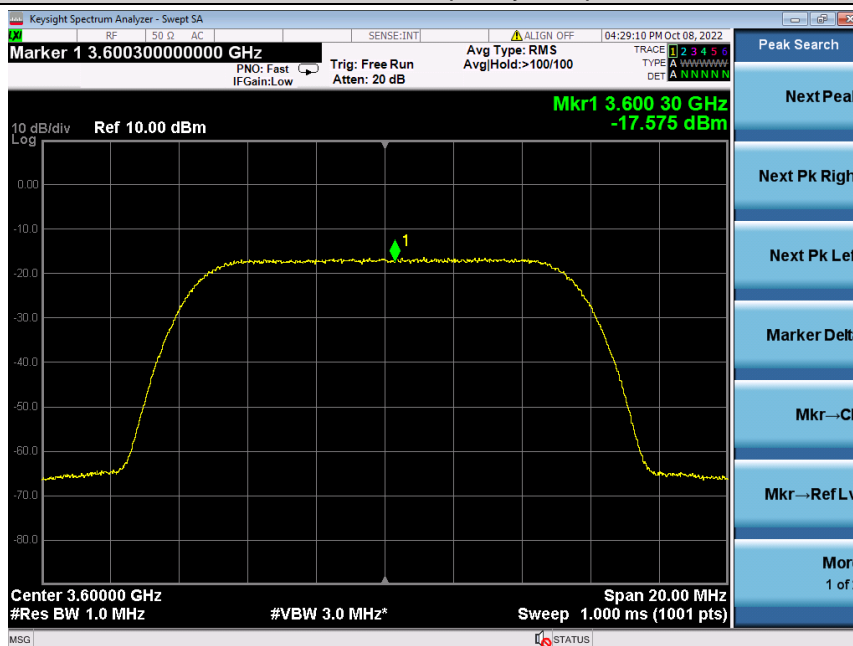
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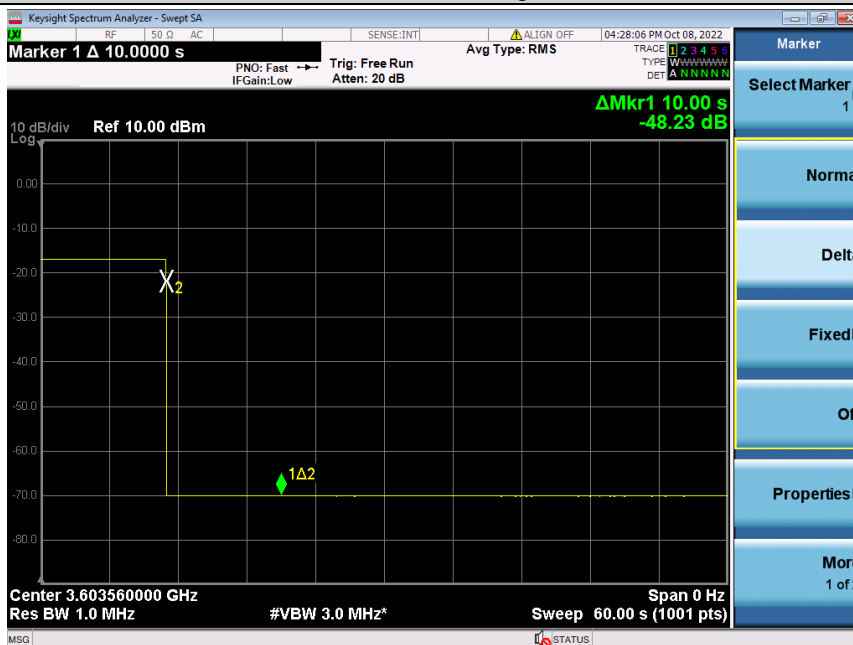
Setup with frequency 3595-3605MHz and power level 5dBm/MHz

Check EUD Tx Frequency and power



EIRP PSD = $-17.575 + 3 + 3.01 = -11.565$ dBm/MHz, loss of Cable and Splitter is 3dB, Antenna gain is 0dBi.
3.01dB is corrected antenna gain and MIMO power factor

EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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7 Photographs

7.1 EUT Constructional Details (EUT Photos)

Please Refer to Integral and internal photos for details.

- End of the Report -



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