



TEST REPORT

Application No.: KSCR2206001043AT
FCC ID: OJFE62-N3-35
Applicant: Corning Optical Communications LLC
Address of Applicant: 6 Concord Road, Shrewsbury, MA 01545 United States
Manufacturer: Corning Optical Communications LLC
Address of Manufacturer: 6 Concord Road, Shrewsbury, MA 01545 United States
Factory: Sunwave Communications Co., Ltd
Address of Factory: 581 Houju Avenue, Binjinag District, Hangzhou, China
Equipment Under Test (EUT):
EUT Name: Remote Unit
Model No.: E62-N3
Trade Mark: **CORNING**
Standard(s): FCC Part 96.47
 FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
 WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification
 WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines
Date of Receipt: 2022-06-24
Date of Test: 2022-08-27 to 2022-08-28
Date of Issue: 2022-08-30

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

Eric Lin
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
00	Original	2022-08-30		/

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



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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-V1.0.1 CBRS CBSD Test Specification

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



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 MEASUREMENT UNCERTAINTY	5
4.3 DESCRIPTION OF SUPPORT UNITS	5
4.4 TEST LOCATION.....	6
5 EQUIPMENT LIST	7
6 TEST METHOD AND ENVIRONMENT.....	8
6.1 END USER DEVICE CONFORMANCE AND PERFORMANCE	8
6.2 TEST ENVIRONMENT	8
6.3 TEST REQUIREMENT	8
6.4 TEST PROCEDURE	8
6.5 TEST SETUP	10
6.6 TEST RESULT	11
7 PHOTOGRAPHS.....	19
7.1 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....	19



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 48V
Sample Type:	End User device
Transmitter Frequency Band:	LTE: Band 48 5GNR: N78
Transmitter Frequency Range:	3550~3700MHz
Antenna Type:	External&Internal
Hardware Version:	SWR78202189B
Software Version:	iDAS_N3RU_R404_V0.3_C783_20220817_CN
Antenna Gain:	3dBi (Provided by manufacturer)

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

For LTE test:

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router	TP-LINK	TL-R860+	1175379002425
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001
Wireless Router	Smawave	CP60X	/



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For 5G NR Test:

Description	Manufacturer	Model No.	Serial No.
5GC	astir	astir_5GC	A372768X0507398
Router	TP-LINK	TL-R860+	1175379002425
Base Band Unit	BTI	sCELL- G52091NAX	L603JESE1I
Remote Radio Unit	BTI	RU4370 (FCC ID: WBKRU4370)	C0214921000004S
Wireless Router	Smawave	CP60X	/

4.4 Test Location

All tests were performed at:

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

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No tests were sub-contracted.



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2021/9/17	2022/9/16
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-V1.0.1 CBRS CBSD Test Specification, use the certified LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5G NR Base station CBSD (FCC ID: WBKRU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE:

1. Setup with frequency 3550-3570MHz and power level 10dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3610-3630MHz & power level 15dBm/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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For 5GNR:

1. Setup with frequency 3550-3650MHz and power level 18dBm/MHz;
2. Enable CBSD service ;
3. Check EUD Tx Frequency and power;
4. Disable AP service ;
5. Check EUD stops transmission within 10seconds;
6. Setup with 3600-3700MHz & power level 8dBm/MHz;
7. Enable CBSD service;
8. Check EUD Tx Frequency and power;
9. Disable CBSD service;
10. Check EUD stops transmission within 10seconds.



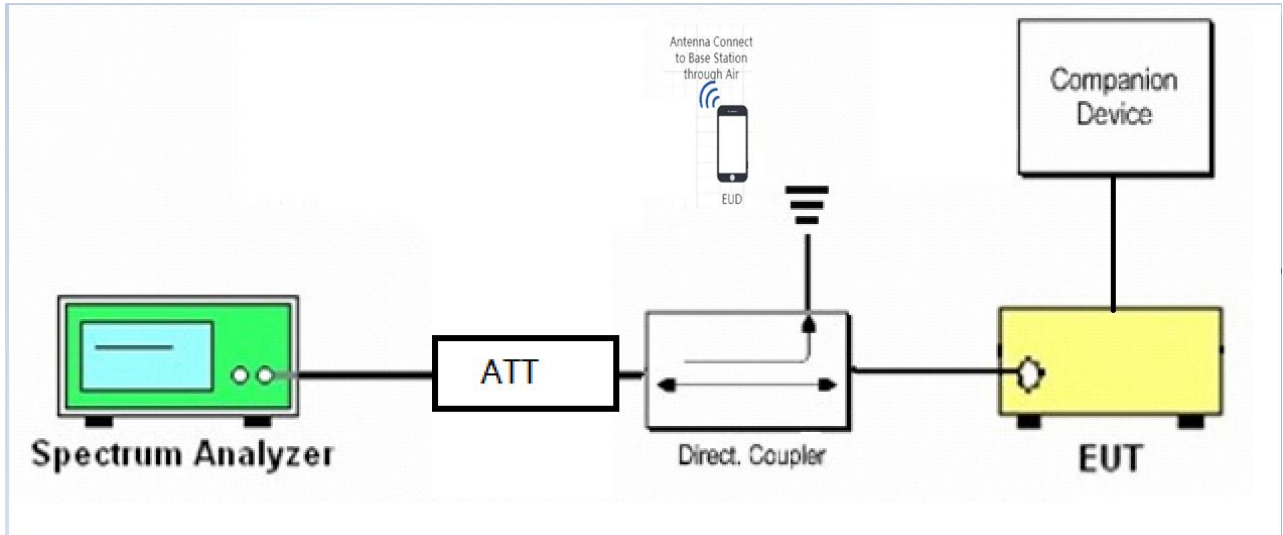
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6.5 Test Setup



For LTE:

End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)

For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBKRU4370)



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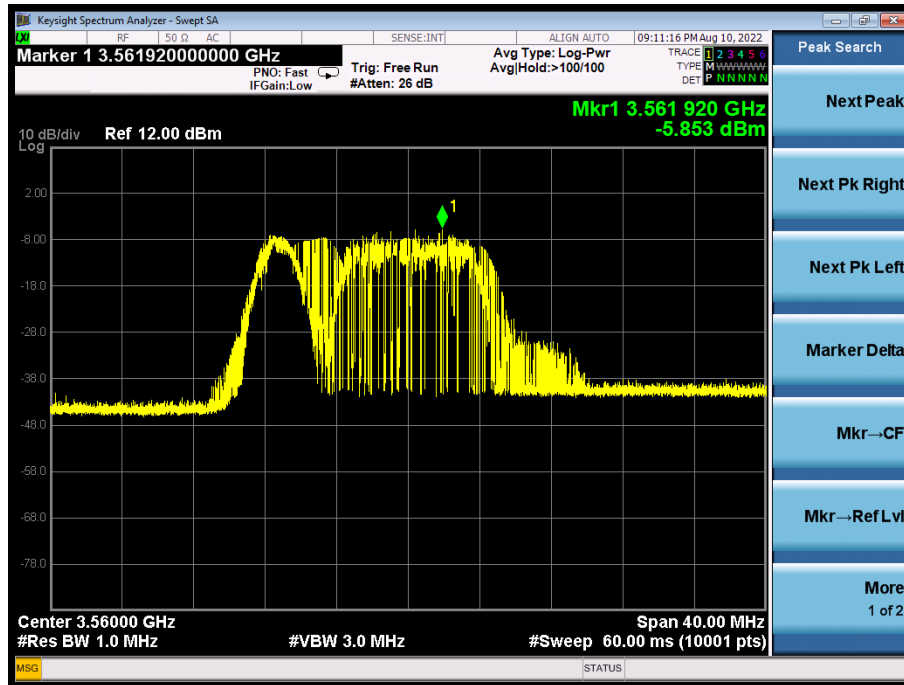
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6.6 Test Result

For LTE

[Step 1] Setup with frequency 3550-3570MHz and power level 10dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-5.853+3+5=2.147dBm/MHz, Antenna gain is 3dBi, the cable loss is 5dB.

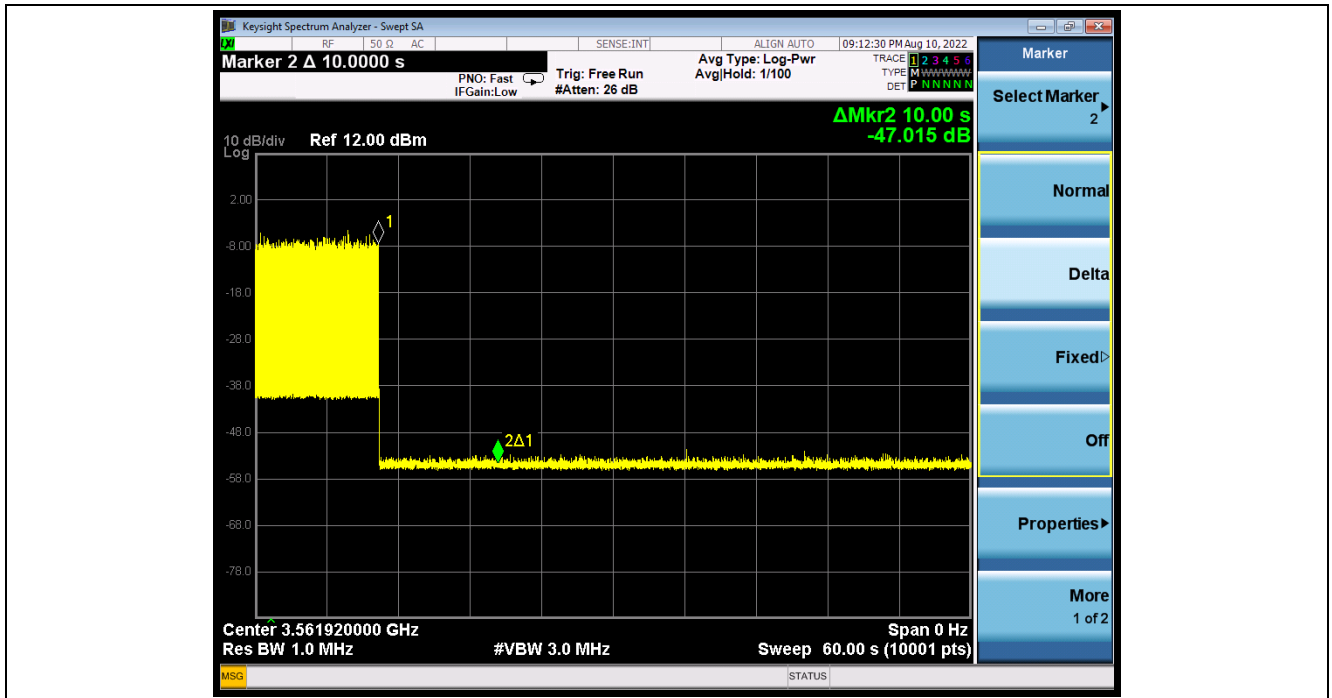
[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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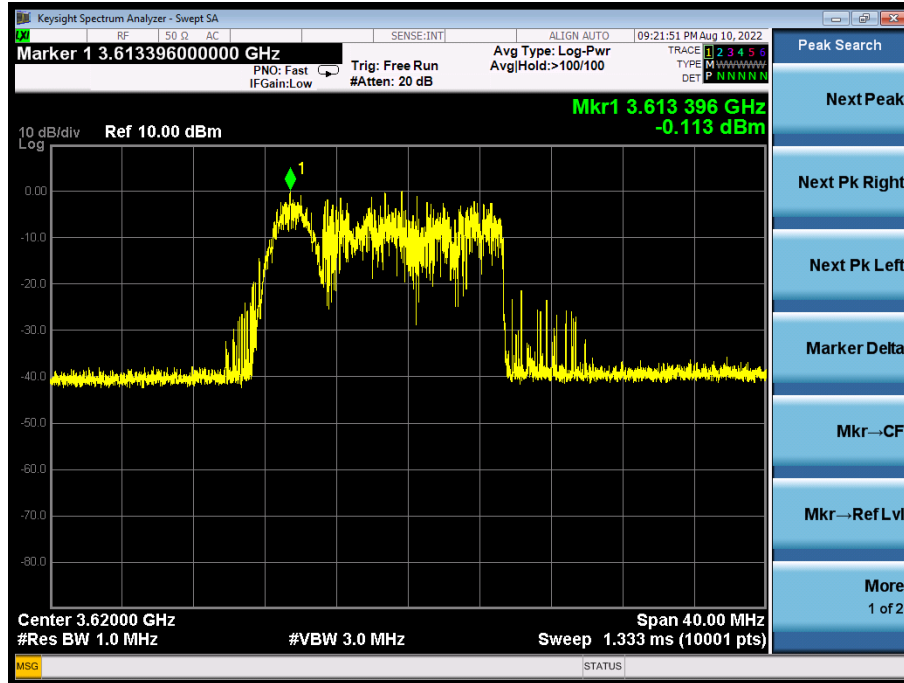
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[Step 6] Setup with frequency 3610-3630MHz and power level 15dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-0.113+3+5=7.887dBm/MHz, Antenna gain is 3dBi, the cable loss is 5dB.

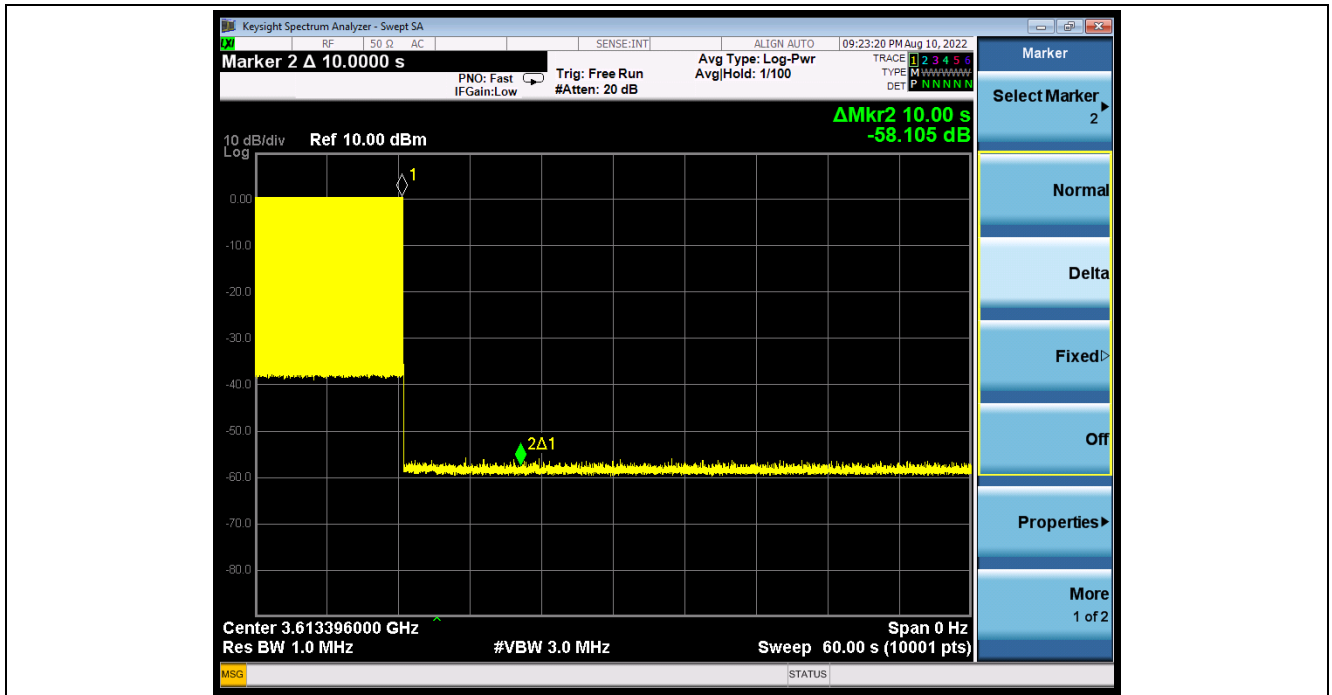
[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



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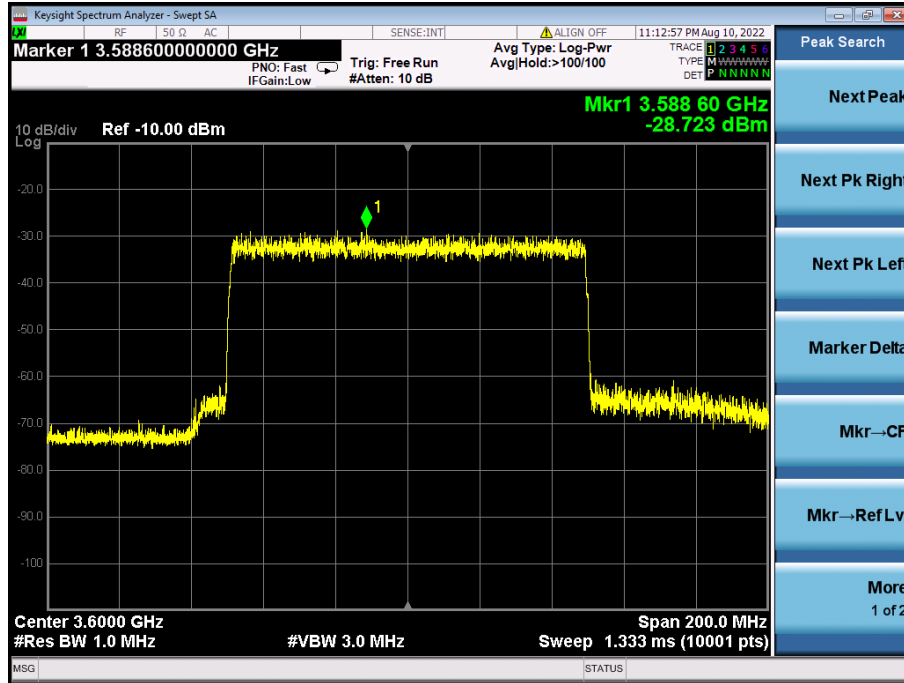
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For 5GNR

[Step 1] Setup with frequency 3550-3650MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=-28.723+3+5=-20.723dBm/MHz, Antenna gain is 3dBi, the cable loss is 5dB.

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.

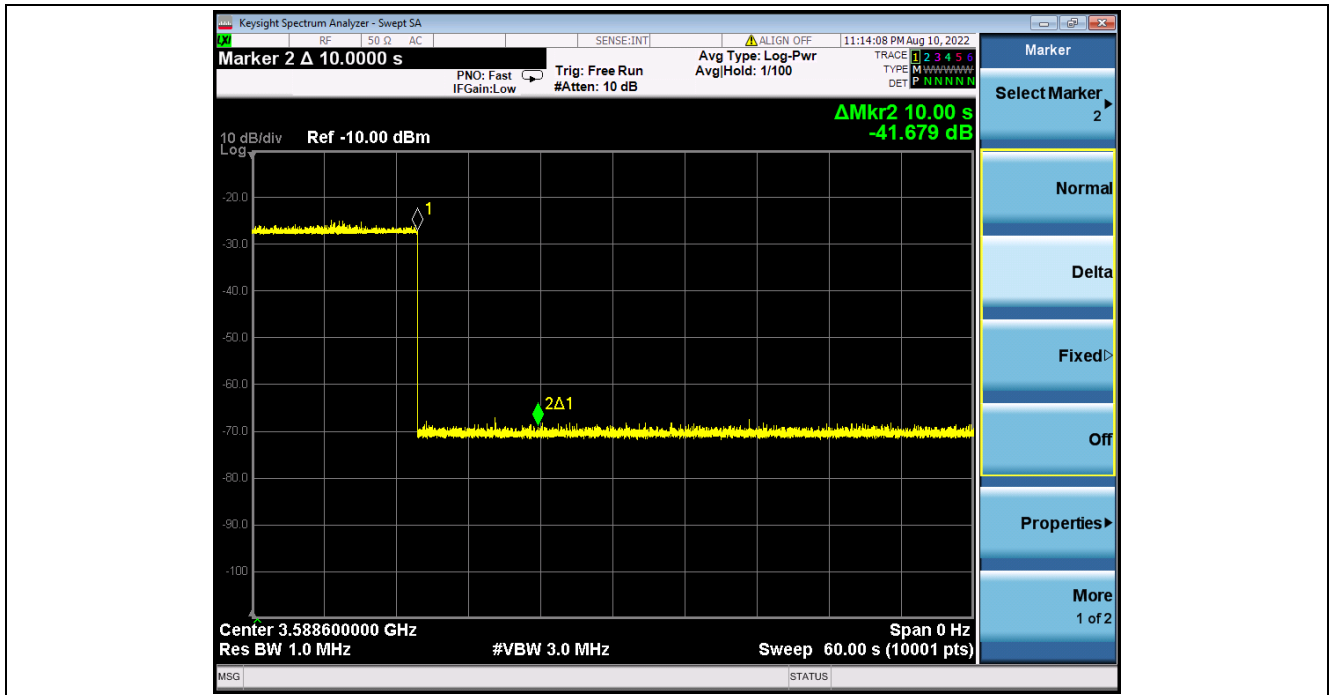


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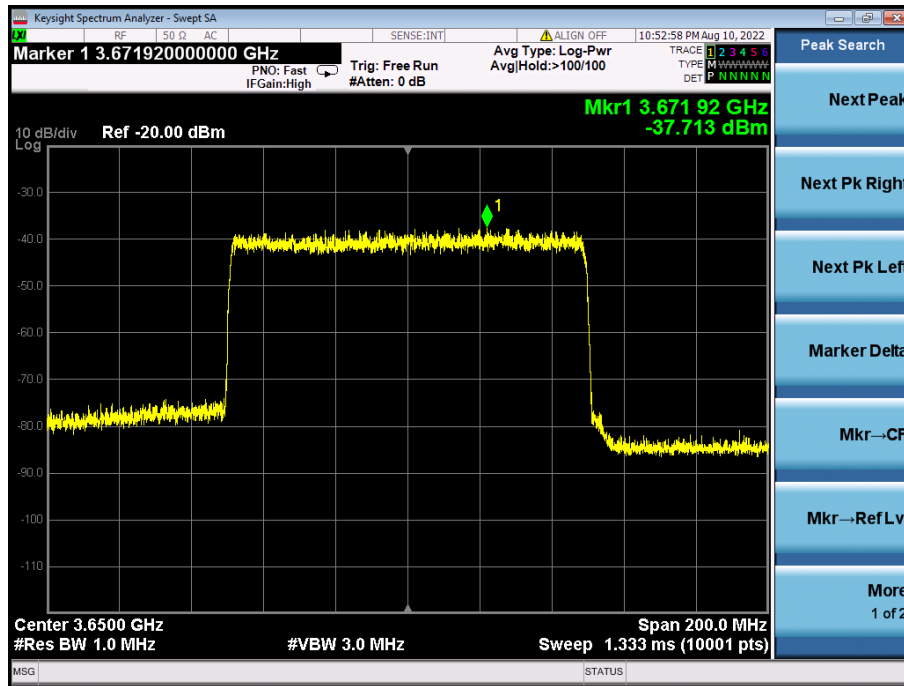
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[Step 6] Setup with frequency 3600-3700MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power

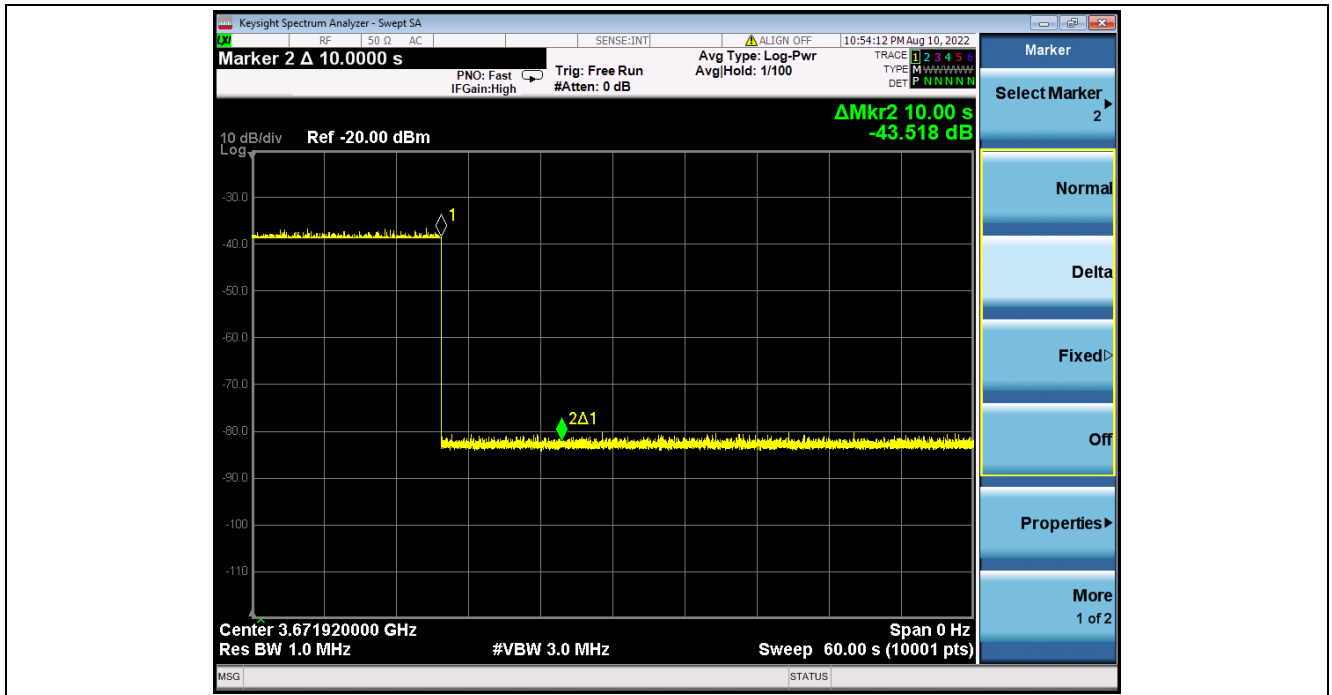


EIRP PSD=-37.713+3+5=-29.713dBm/MHz, Antenna gain is 3dBi, the cable loss is 5dB.

[Step 10] 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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