



FCC Part 96.47 Test Report

Applicant : Motorola Solutions Inc.
Equipment : MSLB-MKZ900 400-512 4W LTE CBRS GNSS
BT WiFi
Brand Name : Motorola Solutions
Model Name : MSLB-MKZ900
Model Number : AAH90ZDU9RH1AN
FCC ID : AZ489FT7133
Standard : FCC Part 96.47

The product was received on Aug. 28, 2020 and testing was started from Sep. 23, 2020 and completed on Sep. 23, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



Table of Contents

1 GENERAL DESCRIPTION 5

1.1 APPLICANT 5

1.2 MANUFACTURER 5

1.3 PRODUCT FEATURE OF EQUIPMENT UNDER TEST..... 5

1.4 PRODUCT SPECIFICATION OF EQUIPMENT UNDER TEST 5

1.5 TESTING LOCATION..... 6

1.6 TEST SOFTWARE 6

1.7 APPLICABLE STANDARDS..... 6

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 7

2.1 CONNECTION DIAGRAM OF TEST SYSTEM 7

3 END USER DEVICE ADDITIONAL REQUIREMENT 8

3.1 TEST REQUIREMENT 8

3.2 TEST PROCEDURE..... 8

3.3 TEST RESULT 9

4 LIST OF MEASURING EQUIPMENT 13

APPENDIX A. TEST SETUP PHOTO



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3	96.47	End User Device additional requirement	Pass	-



1 General Description

1.1 Applicant

Motorola Solutions Inc.

8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322

1.2 Manufacturer

Motorola Solutions Malaysia Sdn. Bhd.

No. 2A, Medan Bayan Lepas, Mukim 12, S.W.D., 11900 Bayan Lepas Penang, Malaysia

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MSLB-MKZ900 400-512 4W LTE CBRS GNSS BT WiFi
Brand Name	Motorola Solutions
Model Name	MSLB-MKZ900
Model Number	AAH90ZDU9RH1AN
FCC ID	AZ489FT7133
EUT supports Radios application	LTE
IMEI Code	352511260016845/352511260016852
HW Version	P2B
SW Version	I02.21.01.0029 (BP), D00.00.65 (AP)
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz
Rx Frequency	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz
Antenna Type	FPC Antenna
Antenna Gain	3550 MHz -3600 MHz: 1.00dBi 3600.1MHz -3650 MHz: 1.00dBi 3650.1 MHz -3700 MHz: 1.50dBi
Type of Modulation	QPSK / 16QAM



1.5 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	DFS01-KS	CN1257	314309
Test Engineer	Eloise Wang		
Temperature	21 ~ 22 °C		
Relative Humidity	46 ~ 47 %		

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	DFS01-KS	Sporton	DFS & Adaptivity Test Tools	1.0

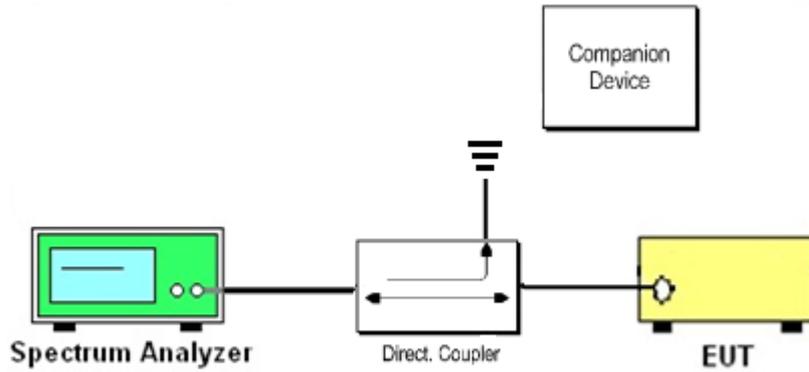
1.7 Applicable Standards

- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v02
- ♦ WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is certified CBRS (FCC ID: S9GQ710US00)



3 End User Device additional requirement

3.1 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.

(1) 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.

3.2 Test Procedure

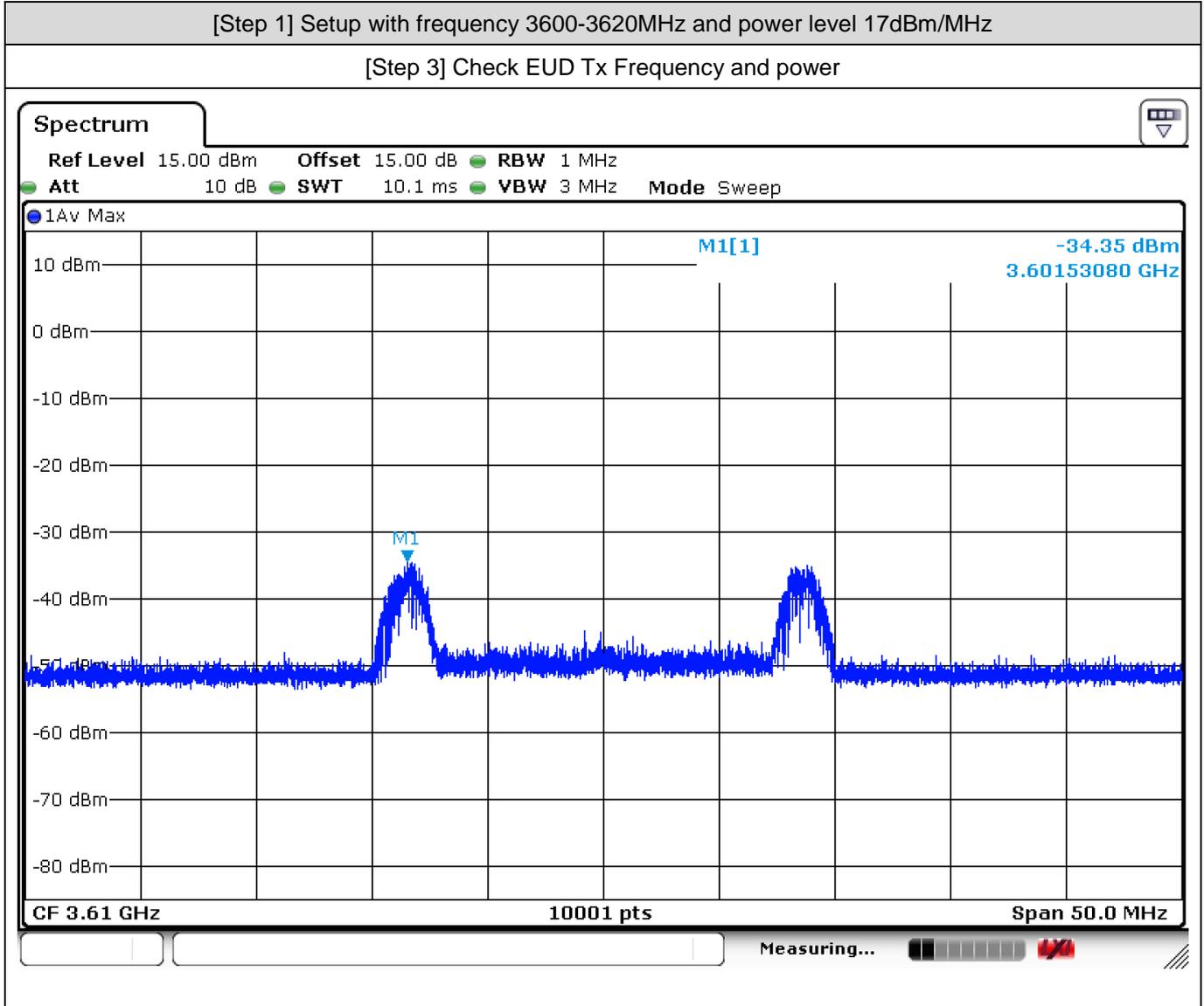
Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: S9GQ710US02) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

1. Setup with frequency 3600-3620MHz and power level 17dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.

5. Setup with 3670-3690MHz & power level 7dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check EUD Tx Frequency and power
8. Disable AP service from Ruckus Cloud management
 - a. Check EUD stops transmission within 10seconds.

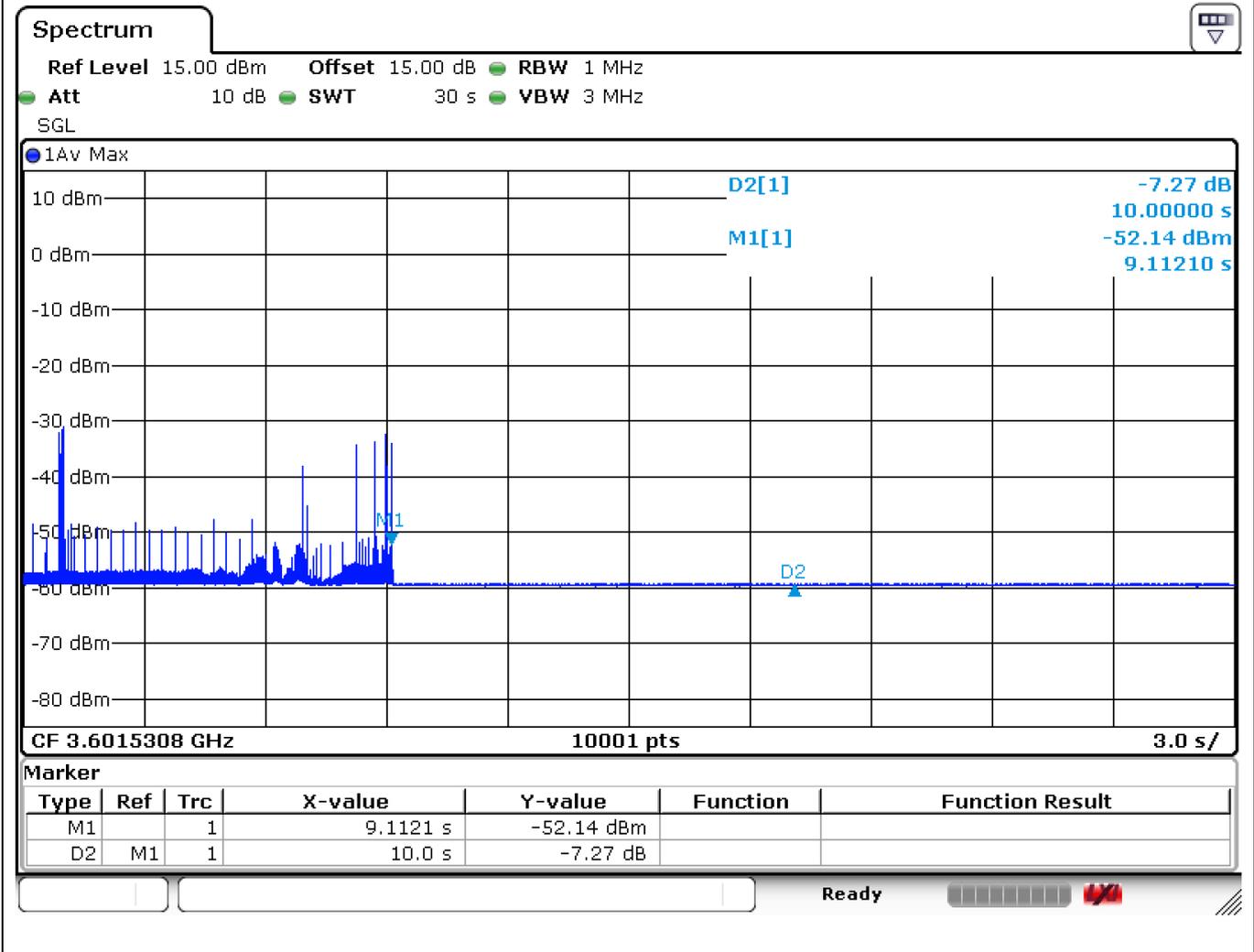


3.3 Test Result





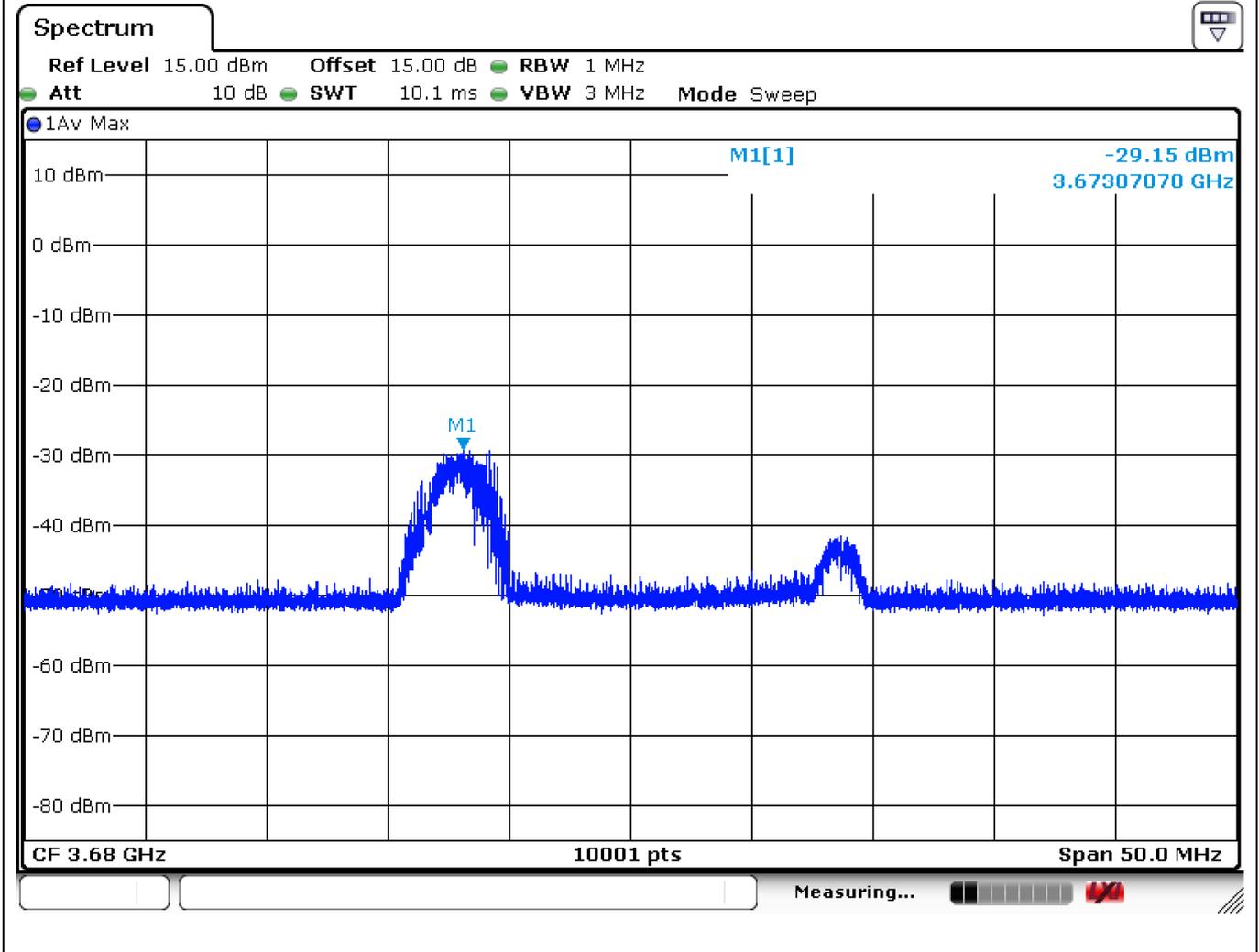
[Step 4.a.] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





[Step 5] Setup with 3670-3690MHz & power level 7dBm/MHz

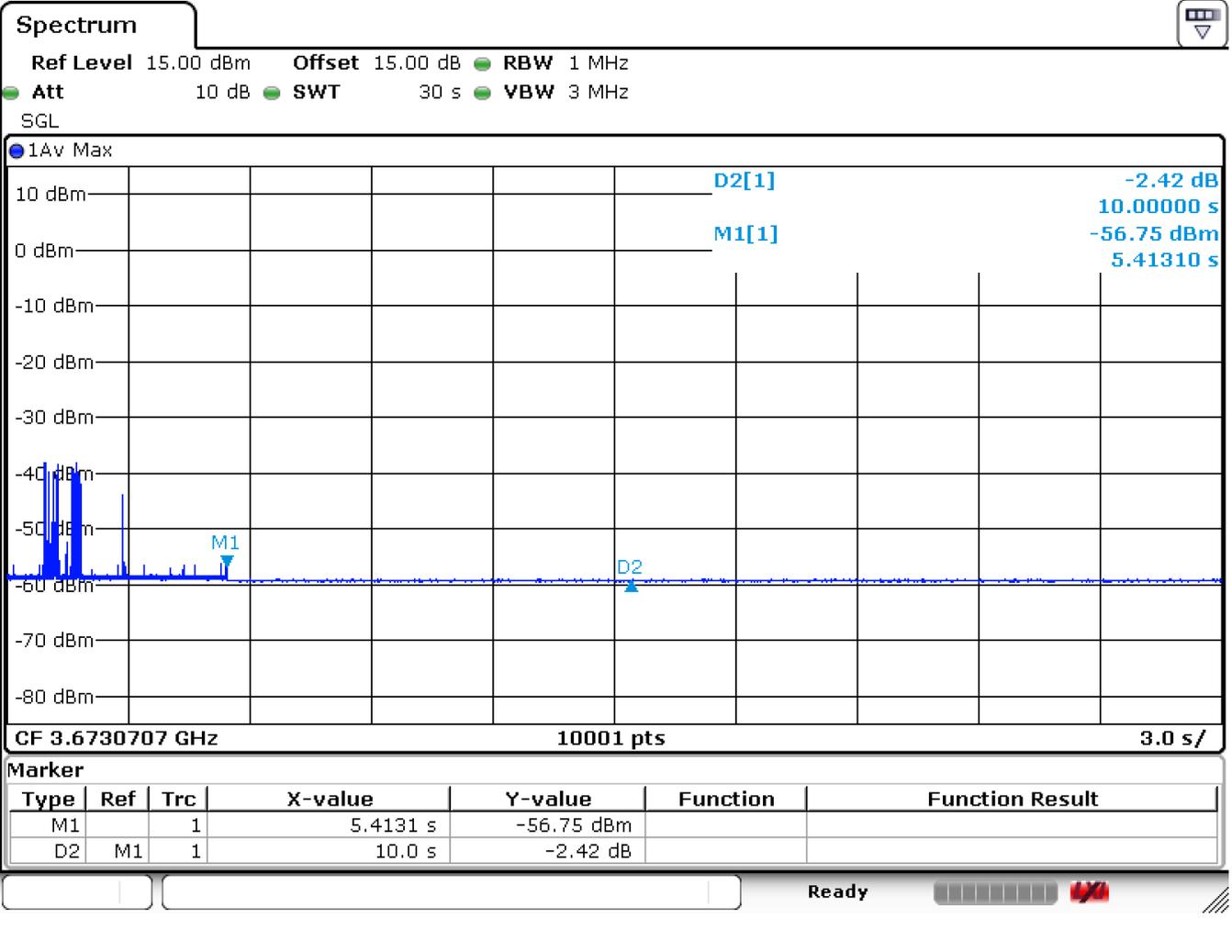
[Step 7] Check EUD Tx Frequency and power





[Step 8.a.] After changing the frequency and power level,

The module (EUT) discontinues operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.

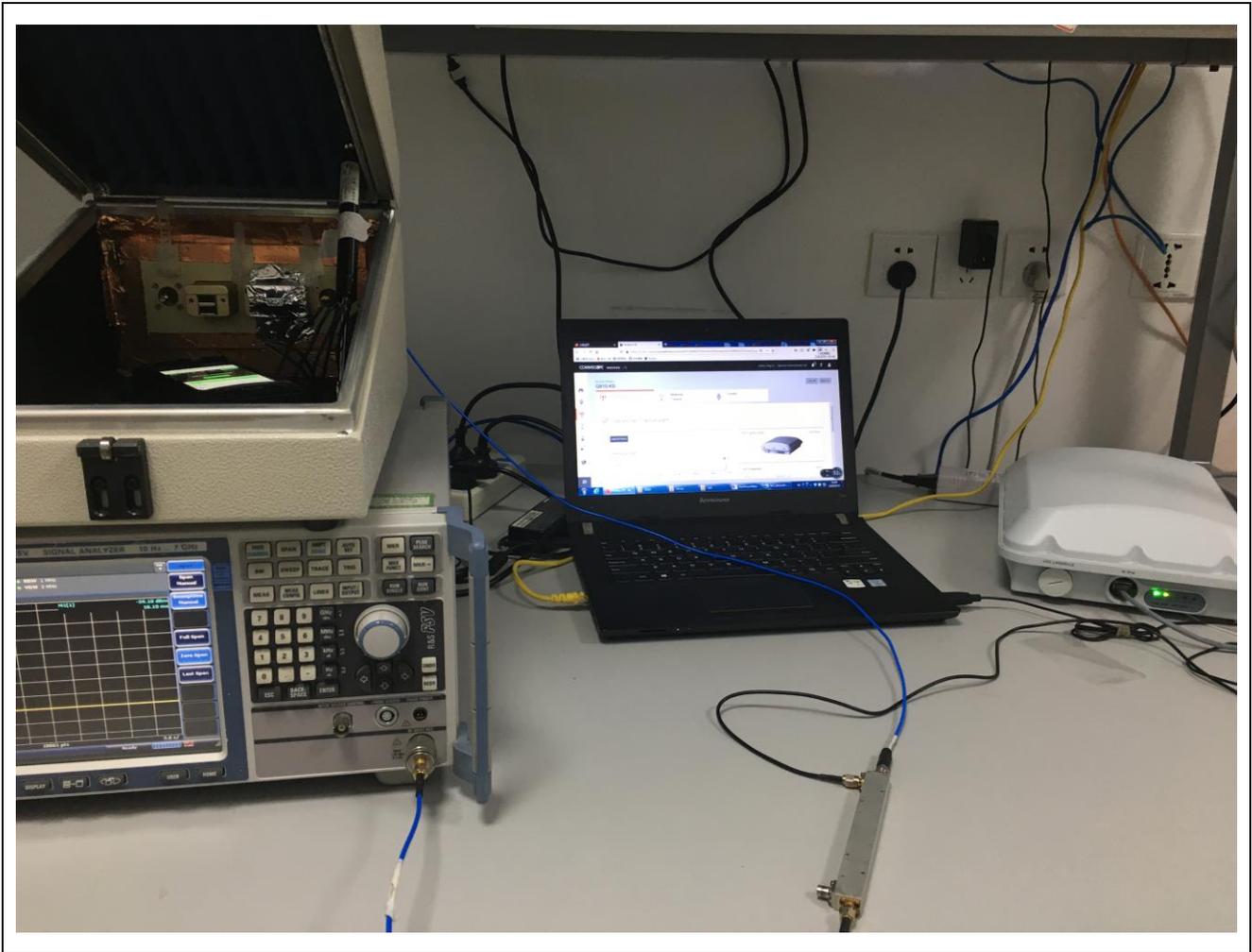




4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV7	101472	10Hz~7GHz	Jan. 08, 2020	Sep. 23, 2020	Jan. 07, 2021	DFS01-KS

Appendix A Test Setup Photo



————THE END————