

CBSD-EUD Test Report

Report No.: RFBERD-WTW-P24060532

FCC ID: U4G-SGVNRNA

Test Model: Datalogic

Received Date: Jun. 21, 2024

Test Date: Jun. 21, 2024

Issued Date: Jun. 28, 2024

Applicant: Datalogic S.r.l.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

**FCC Registration/
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBERD-WTW-P24060532	Original release	Jun. 28, 2024

1 Certificate of Conformity

Product: Mobile Computer/Barcode reader

Test Model: Datalogic

Sample Status: Engineering sample


Applicant: Datalogic S.r.l.

Test Date: Jun. 21, 2024

Standards: FCC Part 96.47

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : , **Date:** Jun. 28, 2024
Polly Chien / Specialist

Approved by : , **Date:** Jun. 28, 2024
Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard : FCC Part 96.47			
FCC Clause	Test Item	Result	Remarks
96.47(a)(1)	End User Device additional requirements	Pass	Meet the requirement

2.1 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Mobile Computer/Barcode reader
Test Model	Datalogic
Host Marketing Name (HMN)	MEMOR 35/MEMOR 35X
Status of EUT	Engineering sample
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
HW Version	DVT2

Note:

1. This report is for 5GNR CBSD test.
2. The EUT uses following accessories.

Scanner 1		
Brand	Model	
Datalogic	Argon	
Scanner 2		
Brand	Model	
Datalogic	Xenon	
BT/WLAN Module		
Brand	Model	
Qualcomm	WCN6856	
NFC chipset		
Brand	Model	
NXP	PN7161	
Battery		
Brand	Model	Specification
Datalogic	SGV-BY-140	Power Rating : 3.86V, 4565mAh, 17.6Wh
USB Cable		
Brand	Model	Specification
Datalogic	A9816360	Signal Line : USB3.0 Type A to Type C, 1.5M

3. Sample's information is listed as below.

Sample	Scanner	S/N	P/N	BV Login No.
A	Xenon	V24D00530	944850003	WTW240625/009Q04N01

4. 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.

4 Measurement

4.1 End User Device additional requirements

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.

4.2 Test Procedure

Following test procedure can be done by WINNF-TS-0122 CBRS CBSD Test Specification, use the certified CBSD(FCC ID: P27P208) as CBSD device to show compliance with FCC Part 96.47 requirements for End User Device(EUD):

Test #1:

- a) Setup WINNF.PT.C.HBT.1 with 3615 ~ 3635 MHz and MaxEIRP at 0.52 dBm/MHz.
- b) Enable CBSD service from EPC management.
- c) Check EUD Tx Frequency and connection successful.
- d) Disable AP service from EPC management.
- e) Check if EUT stop transmission within 10s.

Test #2:

- a) Setup WINNF.PT.C.HBT.1 with 3595 ~ 3615 MHz and MaxEIRP at 5.11 dBm/MHz.
- b) Enable CBSD service from EPC management.
- c) Check EUD Tx Frequency and connection successful.
- d) Change power to 0.56 dBm/MHz.
- e) Check EUD Tx output power.
- f) Disable AP service from EPC management.
- g) Check if EUT stop transmission within 10s.

Note: Test #1 and #2 to show compliance with the handshake testing under Part 96.

4.3 Test Environment

Test Condition

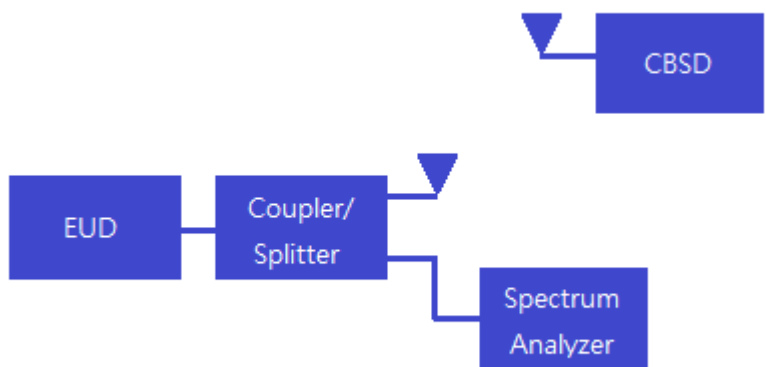
Test Item	Environmental Conditions	Input Power	Tested By
End User Device additional requirements	25deg. C, 70%RH	120Vac, 60Hz	Matthew Yang

4.4 Test Equipment

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until
CBSD Sercomm	SCE5164 (FCCID: P27-SCE5164-B48)	2208DR6000016	NA	NA
Laptop DELL	Inspiron 15 3000	D67MYN2	NA	NA
Spectrum Analyzer R & S	FSV	E2-010642	May 29, 2024	May 28, 2025
2WAY DIV WOKEN	0.5-8GHz 2Way SMA	DCMACMW1E4	Jan. 09, 2024	Jan. 08, 2025

- NOTE:**
1. The test was performed in WM OVEN 1 Test Room
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Jun. 21, 2024

4.5 Test Setup

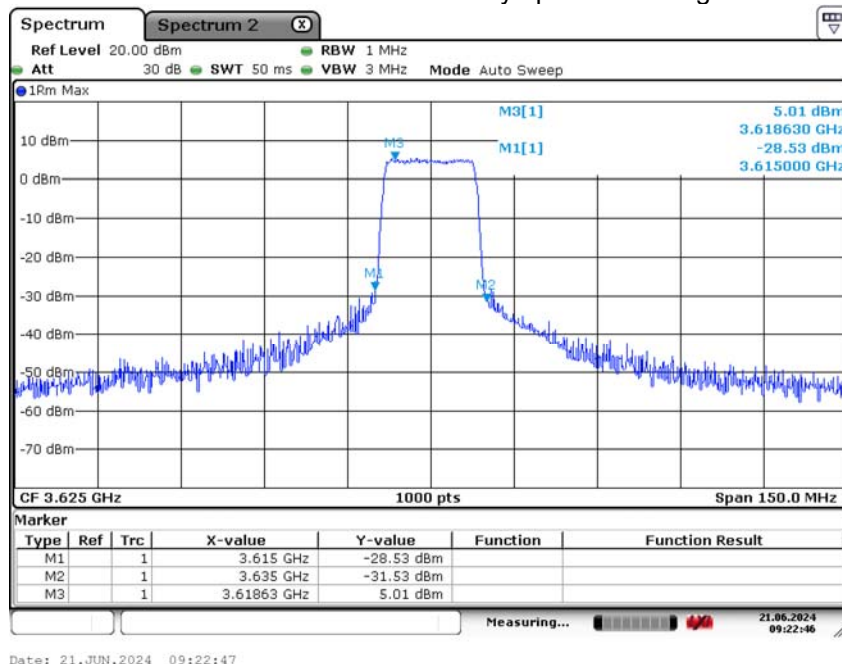


NOTE: The CBSD device is certified CBSD(FCC ID: P27P208). Where the CBSD device connection with EUD is by radiated method. The EUD device connection with Spectrum Analyzer is by conducted method.

4.6 Test Result

Step Test #1-(c)

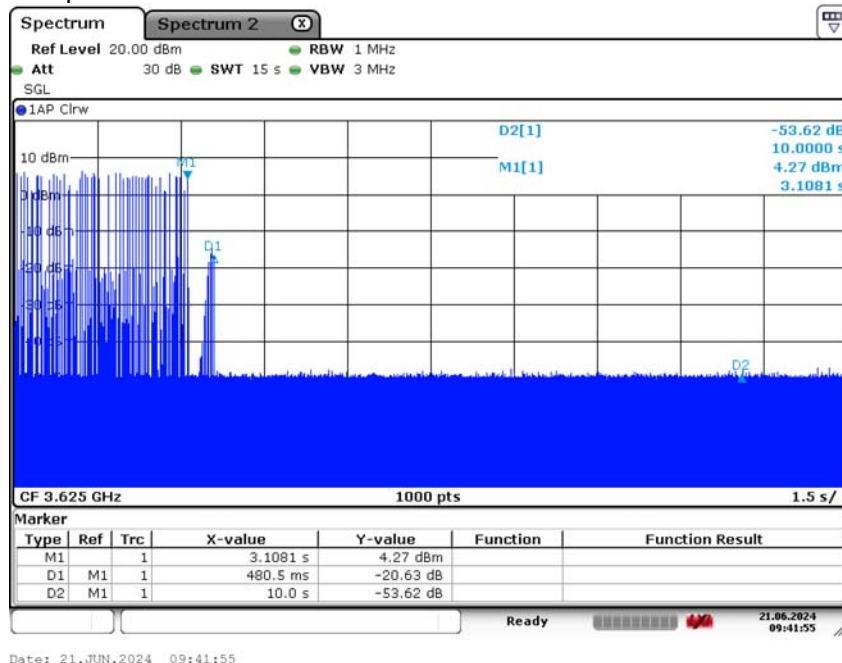
EUD follow instruction from associate CBSD and successfully operate at assigned 3615-3635 MHz channel.



Plot 5-1 EUD frequency of operations

Step Test #1(e)

EUD discontinues the operation within 10 seconds after CBSD terminates the service:



Plot 5-2 EUD discontinues operations within 10s

Note :

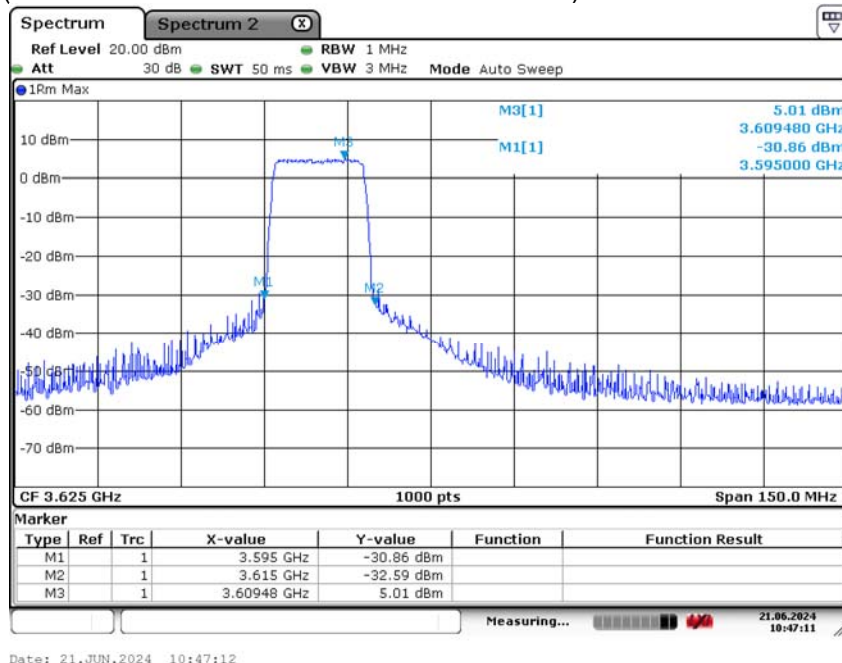
Marker 1: CBSD sends instructions to discontinues operations.

Marker 2: EUD discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUD.

Test #2(c)

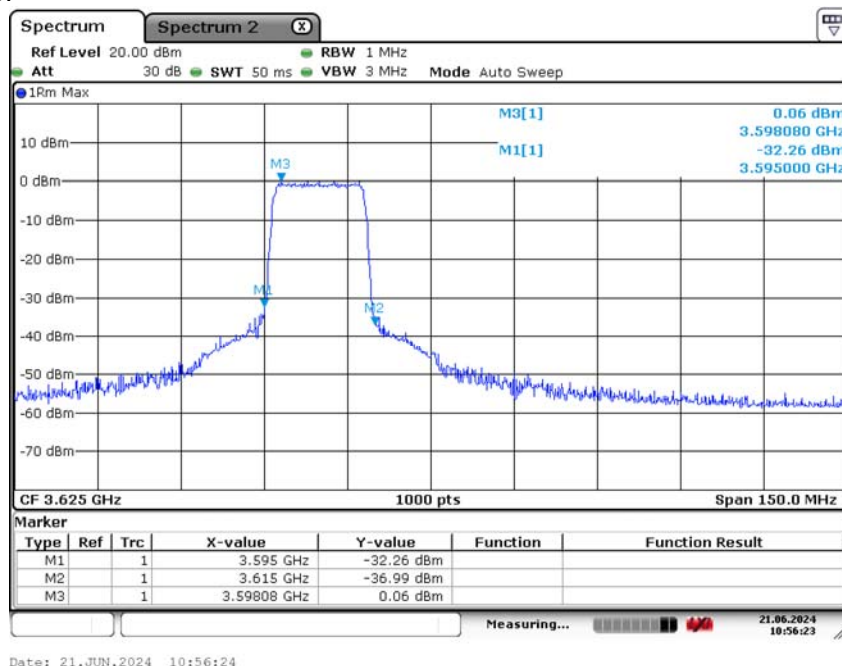
following plots demonstrate that EUD response to the associated CBSD instruction and operate at a new assigned channel (3595 ~ 3615 MHz and MaxEIRP at 5 dBm/MHz)



Plot 5-3 EUD frequency of operations

Test #2(e)

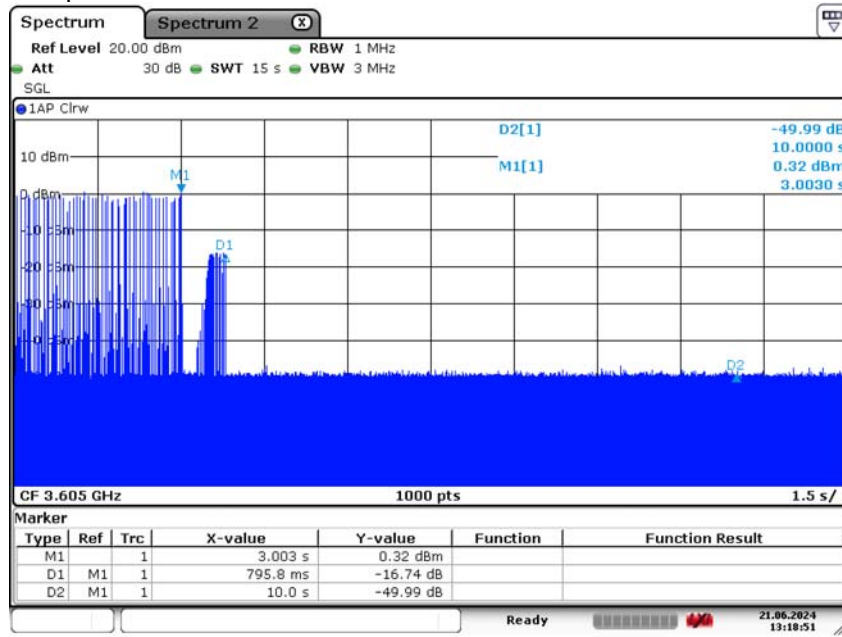
following plot demonstrates that EUD response to the associated CBSD power reduce instruction and reduce the power for 5 dB.



Plot 5-4 EUD changed output power

Step Test #2(g)

EUD discontinues the operation within 10 seconds after CBSD terminates the service:



Date: 21.JUN.2024 13:18:52

Plot 5-5 EUD discontinues operations within 10s.

Note :

Marker 1: CBSD sends instructions to discontinues operations.

Marker 2: EUD discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUD.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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