



ELEMENT WASHINGTON DC LLC

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PART 95 MEASUREMENT REPORT

Applicant Name:

Applied Information, Inc.
3000 Summit PI suite 150
Alpharetta, GA 30009
United States

Date of Testing:

8/6/2026 – 9/14/2026

Test Report Issue Date:

10/8/2026

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2607220068-01-R4.2BHCM

FCC ID:

2BHCM-500-065-02

APPLICANT:

Applied Information, Inc.

Application Type:

Certification

Model:

500-065-02

EUT Type:

CV2X OBU

FCC Classification:

Part 95L On-Board Unit

FCC Rule Part:

§95(L)

Test Procedure(s):

ANSI C63.26-2015, KDB 511808 D01 C-V2X v02

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2607220068-01-R4.2BHCM) supersedes and replaces all previously issued test reports on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President



FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 1 of 37

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	9/2/2026	WKR0000005826
1	Addressed comments from TCB reviewer	9/15/2026	WKR0000005826
2	Addressed comments from TCB reviewer	9/16/2026	WKR0000005826
3	Addressed comments from manufacturer	9/30/2026	WKR0000005826
4	Addressed comments from manufacturer	10/08/2026	WKR0000005826

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 2 of 37

T A B L E O F C O N T E N T S

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION.....	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Test Configuration	6
2.4	Software and Firmware	6
2.5	EMI Suppression Device(s)/Modifications	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure	7
3.2	Radiated Power and Radiated Spurious Emissions	7
4.0	MEASUREMENT UNCERTAINTY	8
5.0	TEST EQUIPMENT CALIBRATION DATA	9
6.0	TEST RESULTS	11
6.1	Summary.....	11
6.2	Conducted Output Power & Effective Radiated Power.....	12
6.3	Occupied Bandwidth	14
6.4	Out of Band Emissions (OOBE)	16
6.5	Spurious and Harmonic Emissions at Antenna Terminal	20
6.6	Radiated Spurious Emissions Measurements.....	26
6.7	Frequency Stability / Temperature Variation	35
7.0	CONCLUSION.....	37

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 3 of 37

MEASUREMENT REPORT

FCC Part 95 Subpart L

Mode	Bandwidth [MHz]	Tx Frequency [MHz]	Max EIRP/20MHz [W]	Max EIRP/20MHz [dBm]	Emissions Designator
C-V2X	20	5915	0.270	24.32	18M2F1D

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 4 of 37		

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

These measurement tests were conducted at the Element laboratory located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreement.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 5 of 37

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **CV2X OBU FCC ID: 2BHCM-500-065-02**. The test data contained in this report pertain only to the emissions due to the EUT's C-V2X On-Board Unit radio transmitter that operates under the provisions of Part 95 Subpart L.

Test Device Serial No.: 64238

2.2 Device Capabilities

This device contains the following capabilities:

C-V2X

The device contains the Quectel module, FCC ID: XMR201909EC25AFX, which has the capability of operating with LTE-FDD: B2/4/5/12/13/14/66/71 and WCDMA: B2/4/5.

The device contains the Laird module, FCC ID:KQL-AC4490, which transmits on the 900MHz ISM band.

The device contains the Ublox module, FCC ID: XPYNINAB1, which transmits BLE.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015 and KDB 511808 D01. See Section 6.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The device operated at the center frequency of 5915MHz with 20MHz BW. The EUT has two transmit antennas but only operates in SISO mode. Both outputs were investigated and found to be identical. Only one set of results is included in this report.

The EUT is capable of transmitting C-V2X simultaneously with the LTE, 900MHz, and BLE radios. Emissions were evaluated with simultaneous transmission of all four radios.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version 1.5.1-1 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 6 of 37

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI C63.26-2015. For emissions below 1GHz, a half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{\text{[dB}\mu\text{V/m]}} = \text{Measured amplitude level}_{\text{[dBm]}} + 107 + \text{Cable Loss}_{\text{[dB]}} + \text{Antenna Factor}_{\text{[dB/m]}}$$

And

$$\text{EIRP}_{\text{[dBm]}} = E_{\text{[dB}\mu\text{V/m]}} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 7 of 37		

4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 8 of 37

5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL40-3	Conducted Cable Set (40GHz)	1/30/2026	Annual	1/30/2027	WL40-3
-	MVG-001	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	MVG-001
-	MVG-002	EMC Cable and Switch System	1/30/2026	Annual	1/30/2027	MVG-002
-	MD 1M 40	EMC Cable and Switch System	7/28/2026	Annual	7/28/2027	MD 1M 40
Espec	SCP-220	Temperature Chamber	11/20/2024	Biennial	9/30/2026	OCP5H0612K05
Keysight Technologies	N9038A	MXE EMI Receiver	11/10/2025	Annual	11/10/2026	MY51210133
Keysight Technologies	N9030B	PXA Signal Analyzer	11/10/2025	Annual	11/10/2026	MY57141001
Keysight Technologies	N9030A	EMI Test Receiver (40GHz)	7/28/2026	Annual	7/28/2027	MY55410501
Rohde & Schwarz	EUS40	EMI Test Receiver (40GHz)	1/16/2026	Annual	1/16/2027	100348
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Sunul	JB5	Bi-Log Antenna (20M-5GHz)	9/11/2024	Biennial	9/11/2026	A051107
ETS-Lindgren	3116C	Horn Antenna (10GHz-40GHz)	4/22/2025	Biennial	4/22/2027	218893

Table 5-1. Test Equipment

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

Component	Serial Number
MegaPhase Cable TM40K1K1-30	20335602 001
MCL 10dB Attenuator BW-K10 2W44+	2108

Table 5-2. WL40-3 Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20379901 002
Sucoflex Cable 106A	248420 002

Table 5-3. MVG-001 Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20379901 001
Sucoflex Cable 126E	551792
Rohde & Schwarz SF Unit	102155
SMU/RF-A OUT Cable	1127118600 10 06 379

Table 5-4. MVG-002 Components

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 9 of 37		

Component	Serial Number
MegaPhase Cable TM40-K1K1-30	20233002-004
UTIPLEX Cable	64639 232063-001
Rohde & Schwarz Pre-amp RS-PR1840 18G-40G	9037.7670.02

Table 5-5. MD 1M 40 Components

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 10 of 37

6.0 TEST RESULTS

6.1 Summary

Company Name: Applied Information
 FCC ID: 2BHCM-500-065-02
 FCC Classification: CVO
 Mode(s): CV2X

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power & Effective Isotropic Radiated Power	95.3204	< 33 dBm E.I.R.P.	PASS	Section 6.2
	Occupied Bandwidth	95.3203	N/A	PASS	Section 6.3
	Out-of-Band Emissions (OOBE)	95.3205	(1) -16 dBm/100 kHz within ±1 megahertz of the band edges; (2) -13 dBm/MHz within ±1 megahertz to ±5 megahertz of the band edges; (3) -16 dBm/MHz within ±5 megahertz to ±30 megahertz of the band edges; and (4) -28 dBm/MHz beyond 30 megahertz from the band edges	PASS	Sections 6.4
	Frequency Stability	2.1055, 95.3203	< 2.5 ppm **Fundamental emissions stay within authorized frequency block	PASS	Sections 6.7
RADIATED	Radiated Spurious Emissions	95.3205	Must meet C-V2X Out-of-Band Emissions (OOBE) Limits	PASS	Section 6.6

Table 6-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in Section 7.0 were taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 11 of 37		

6.2 Conducted Output Power & Effective Radiated Power

Test Overview

All emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.4

Test Settings

1. Span = 2 x OBW to 3 x OBW
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

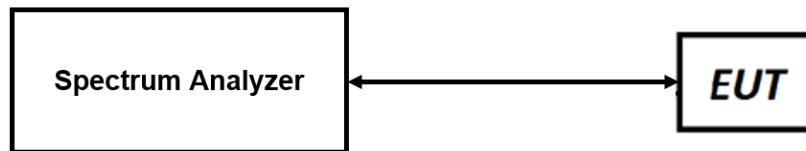


Figure 6-1. Test Instrument & Measurement Setup

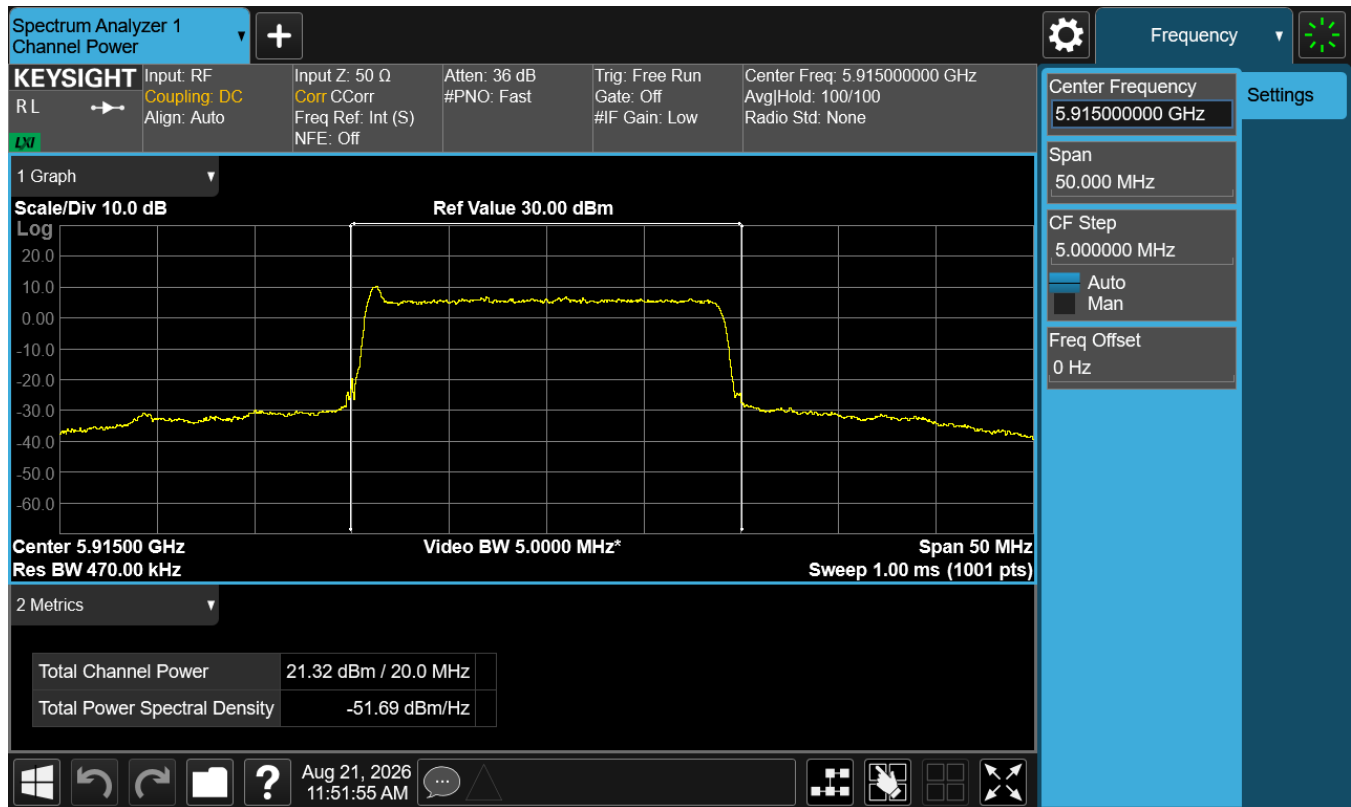
Test Notes

None

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 12 of 37

Bandwidth	Frequency [MHz]	Conducted Power [dBm]	Antenna Gain [dBi]	EIRP/20MHz [dBm]	EIRP/20MHz Limit [dBm]	Margin [dB]
20 MHz	5915.0	21.32	3.00	24.32	27.00	-2.68

Table 6-2. Maximum Conducted Output Power Result



Plot 6-1. Conducted Output Power Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 13 of 37

6.3 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

Test Procedure Used

ANSI C63.26-2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

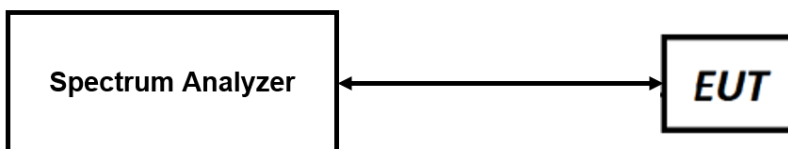


Figure 6-2. Test Instrument & Measurement Setup

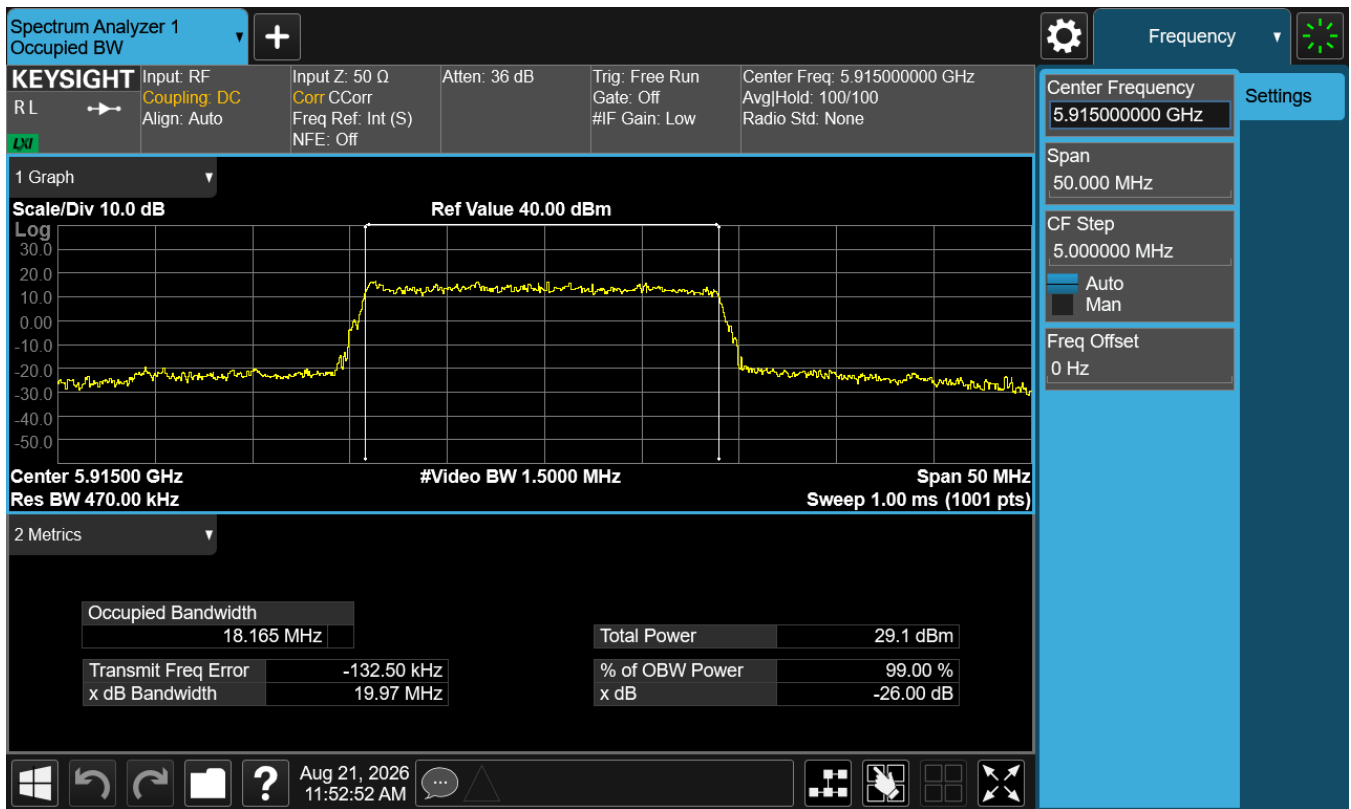
Test Notes

None

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 14 of 37

Mode	Bandwidth	OBW [MHz]	26dB BW [MHz]
CV2X	20MHz	18.165	19.97

Table 6-3. Bandwidth Test Results



Plot 6-2. 26dB Bandwidth Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 15 of 37

6.4 Out of Band Emissions (OOBE)

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. C-V2X OBUs must meet OOBE limits as following:

1. -16 dBm/100 kHz within ± 1 megahertz of the band edges.
2. -13 dBm/MHz within ± 1 megahertz to ± 5 megahertz of the band edges.
3. -16 dBm/MHz within ± 5 megahertz to ± 30 megahertz of the band edges and
4. -28 dBm/MHz beyond 30 megahertz from the band edges.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3
KDB 511808 D01 C-V2X v02

Test Settings

1. Set instrument center frequency to the frequency of channel being measured.
2. RBW = 100kHz, 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span ≥ 4 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

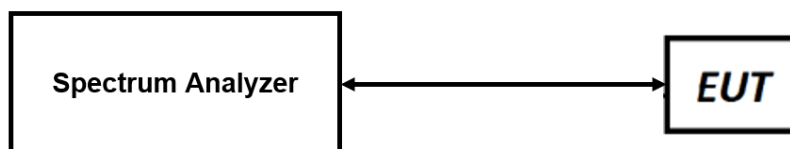
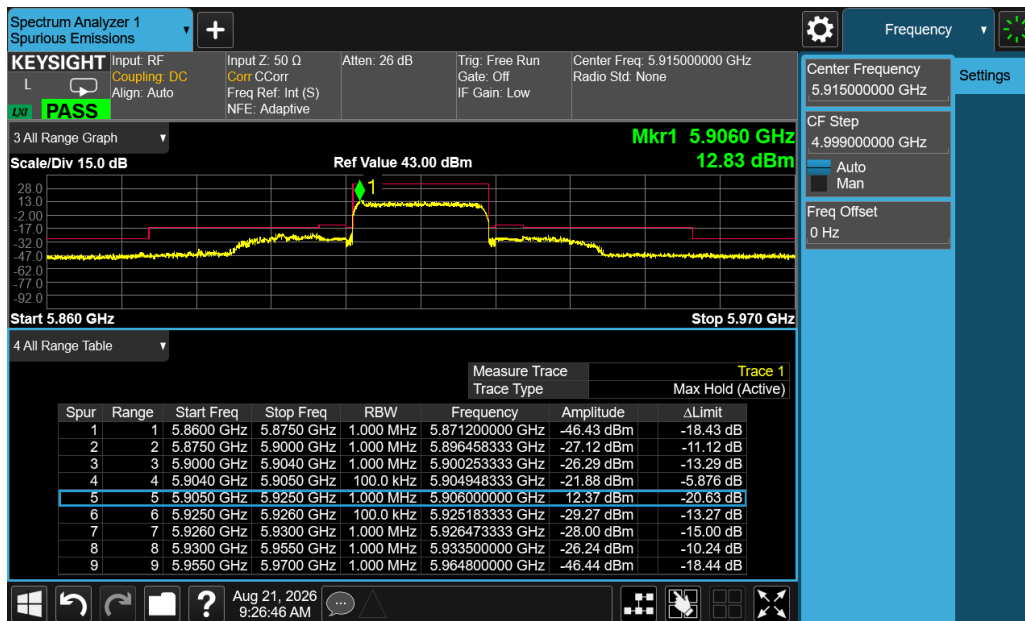


Figure 6-3. Test Instrument & Measurement Setup

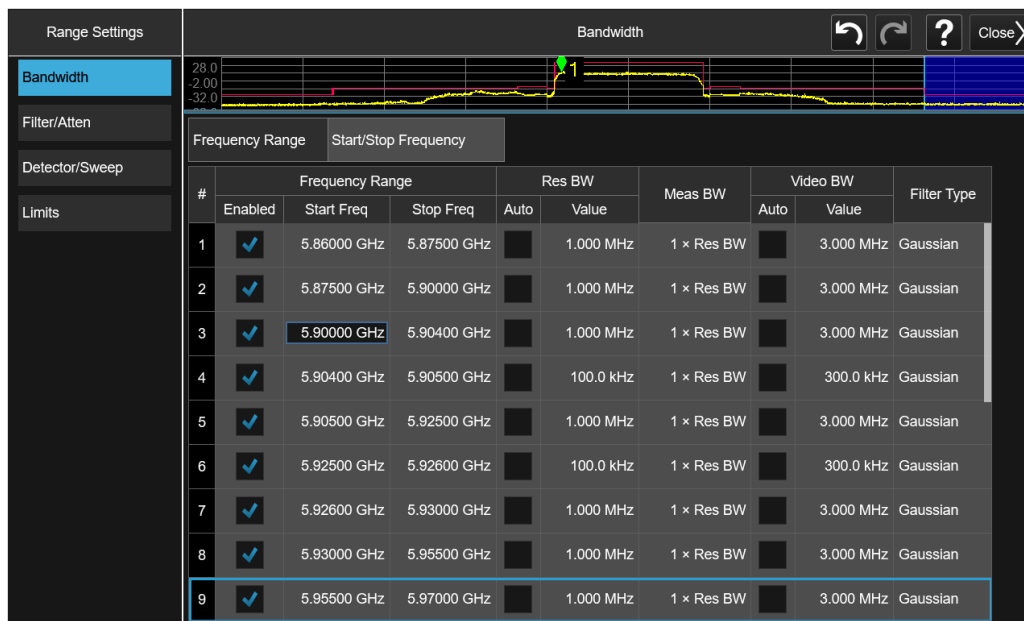
Test Notes

None

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 16 of 37

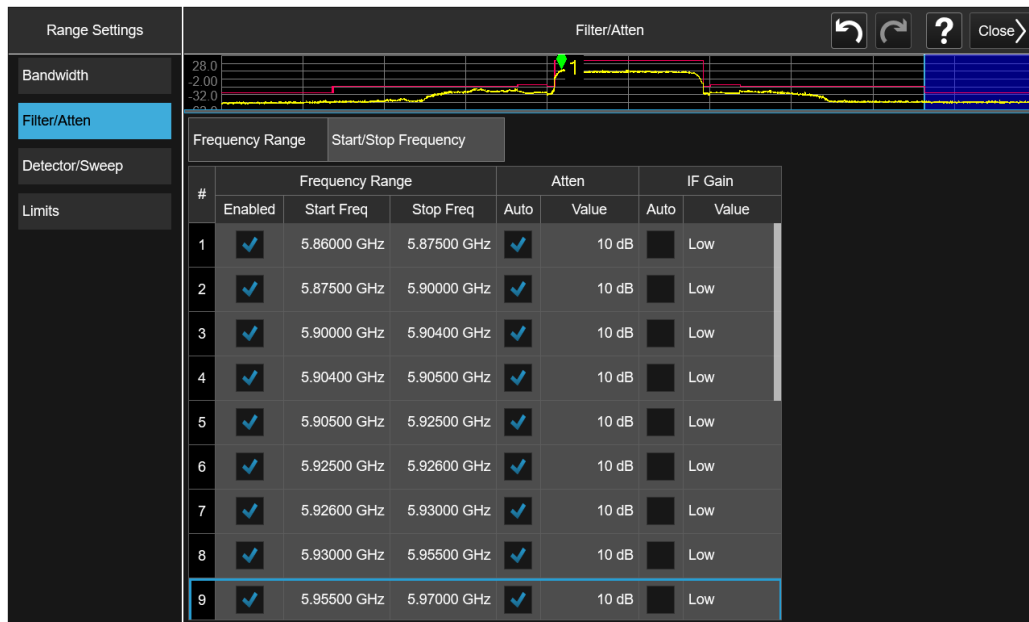


Plot 6-3. Out of Band Emissions Plot (C-V2X OBU)

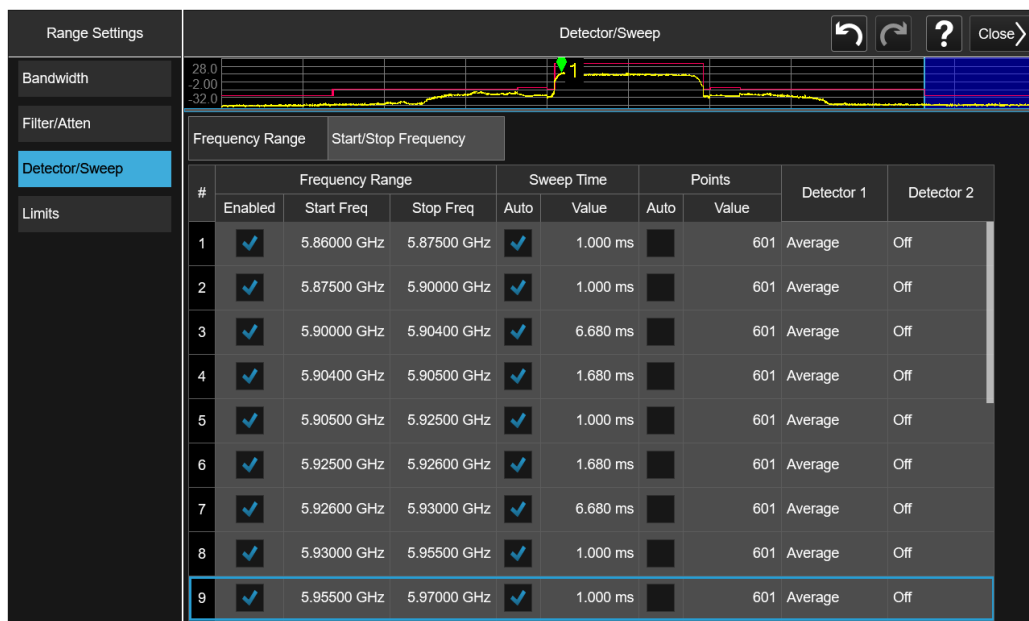


Plot 6-4. Out of Band Emissions Settings

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 17 of 37

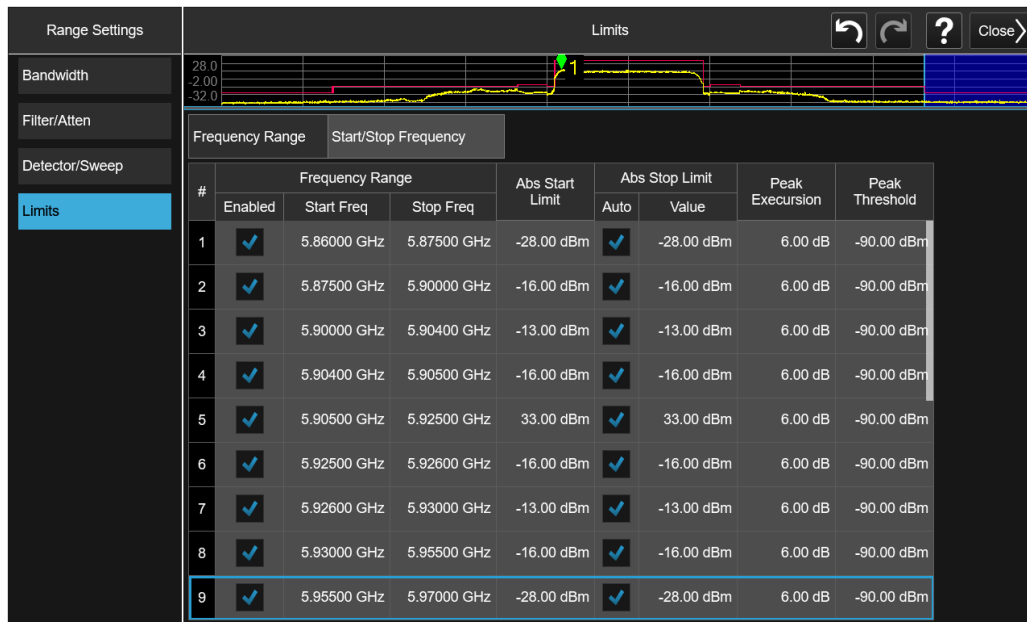


Plot 6-5. Out of Band Emissions Settings



Plot 6-6. Out of Band Emissions Settings

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
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Plot 6-7. Out of Band Emissions Settings

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 19 of 37

6.5 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 40GHz (separated into at least two plots per channel)
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

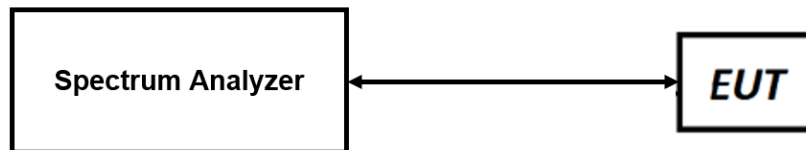
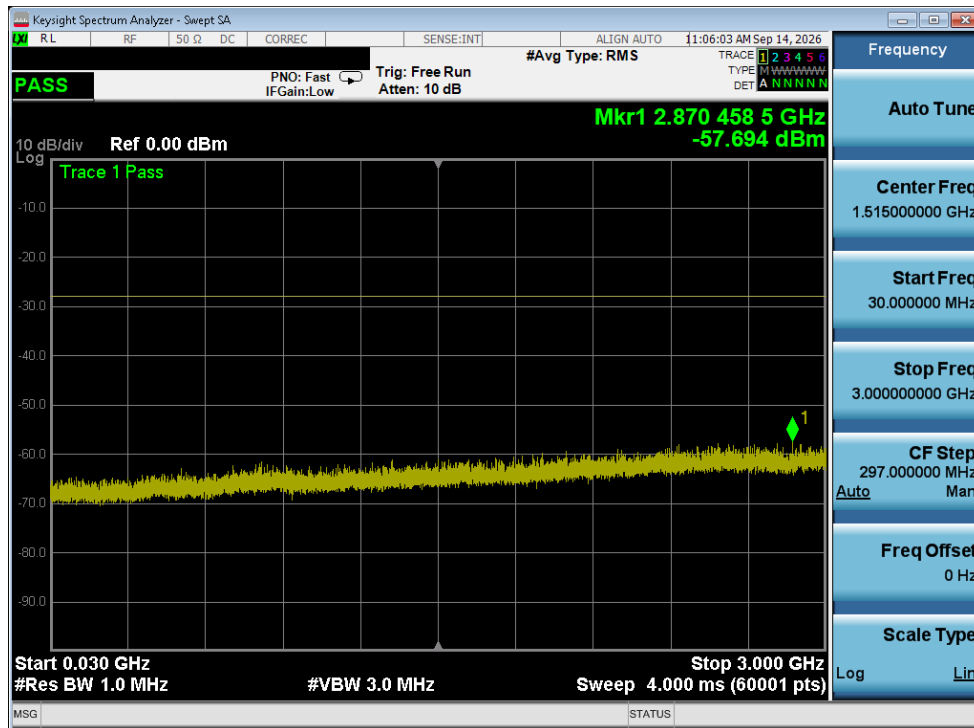


Figure 6-4. Test Instrument & Measurement Setup

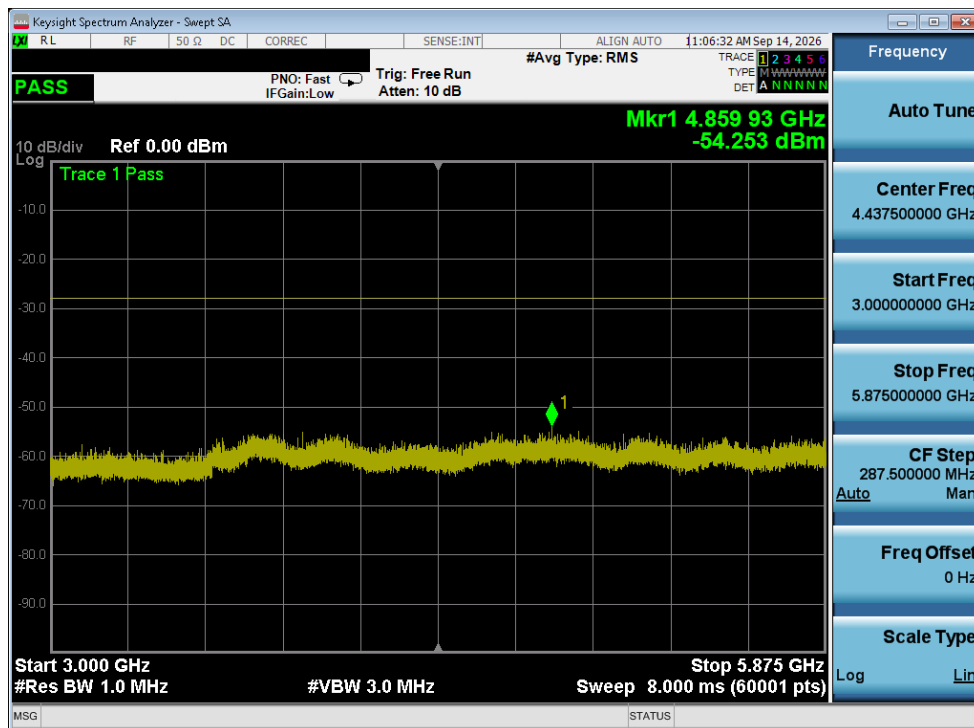
Test Notes

1. Per Part 95, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
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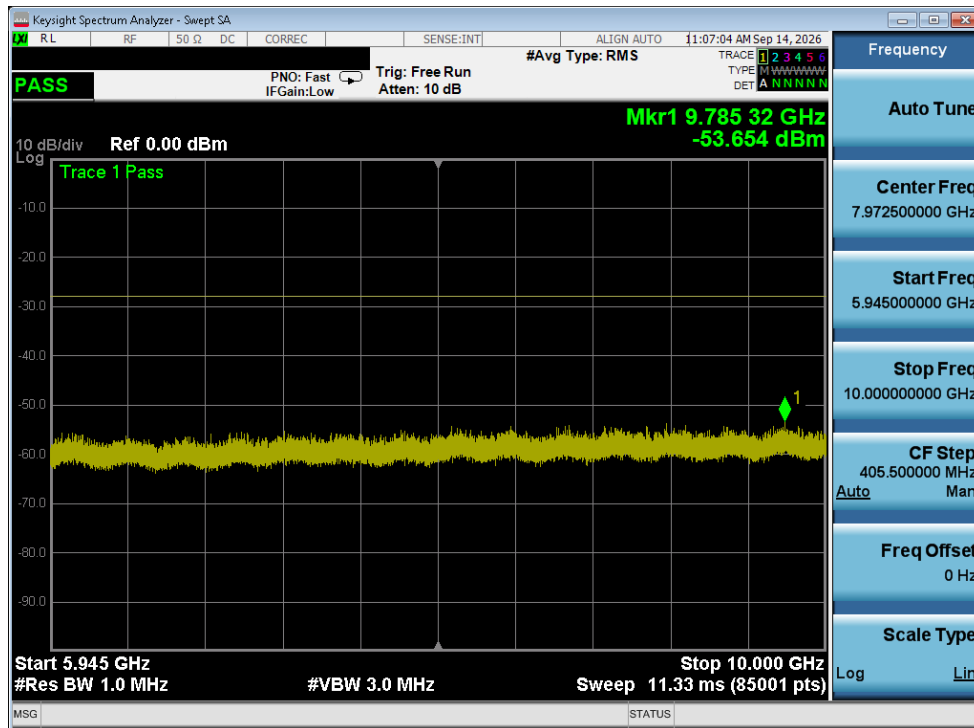


Plot 6-8. Conducted Spurious Plot (C-V2X OBU)

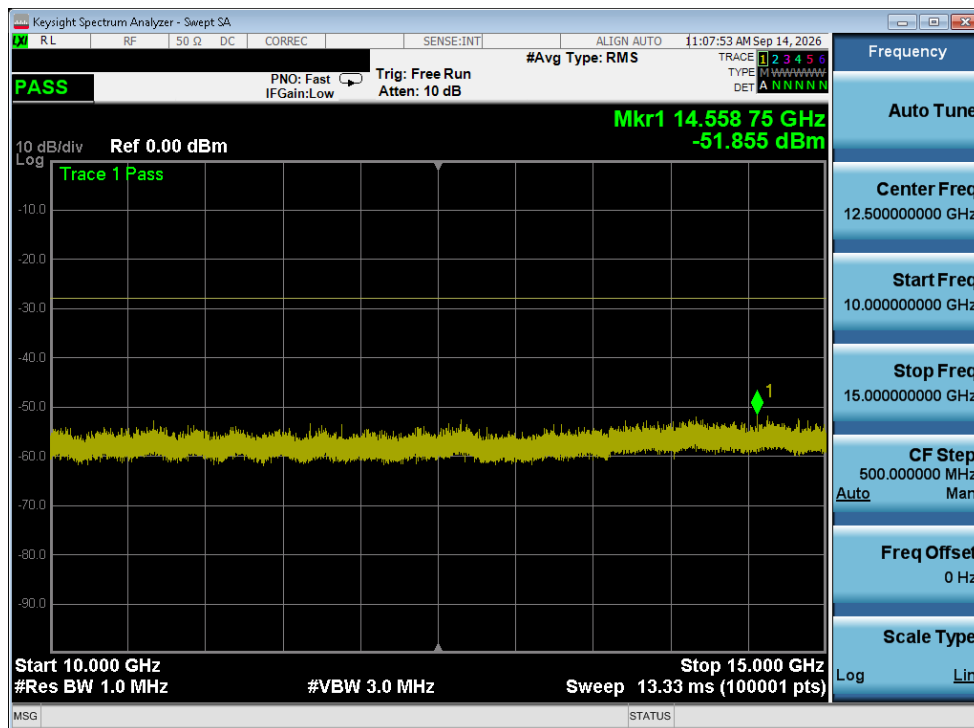


Plot 6-9. Conducted Spurious Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 21 of 37

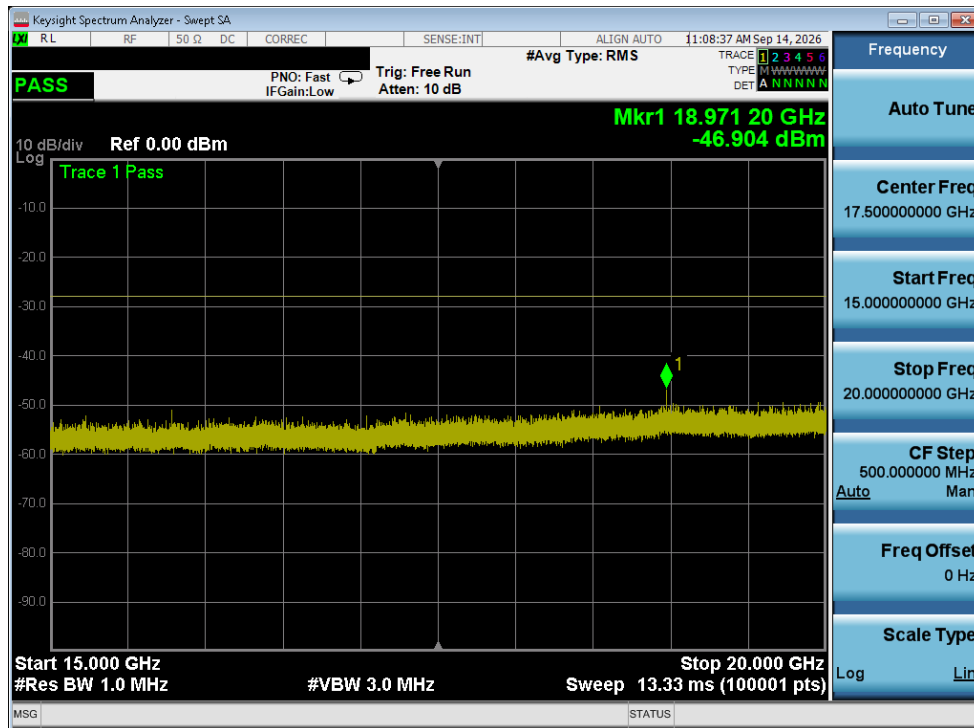


Plot 6-10. Conducted Spurious Plot (C-V2X OBU)

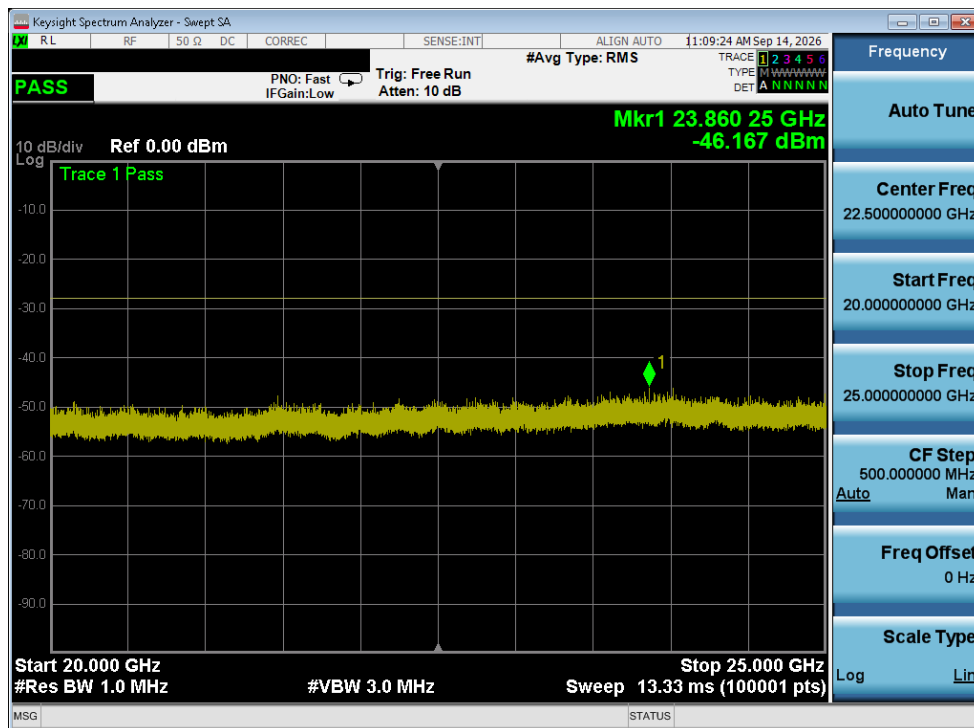


Plot 6-11. Conducted Spurious Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 22 of 37		

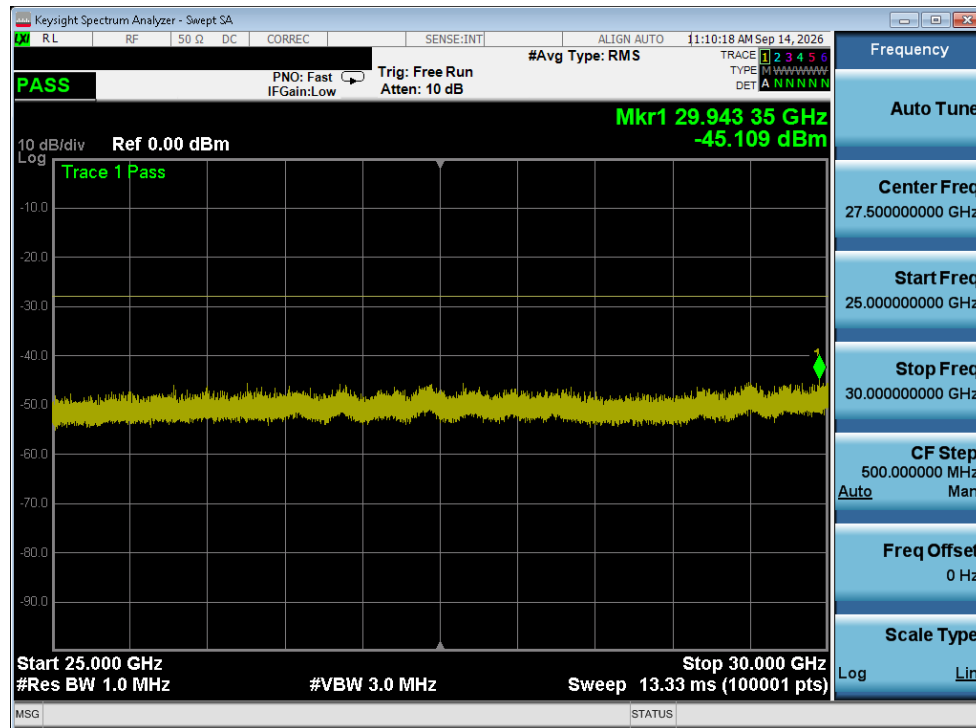


Plot 6-12. Conducted Spurious Plot (C-V2X OBU)

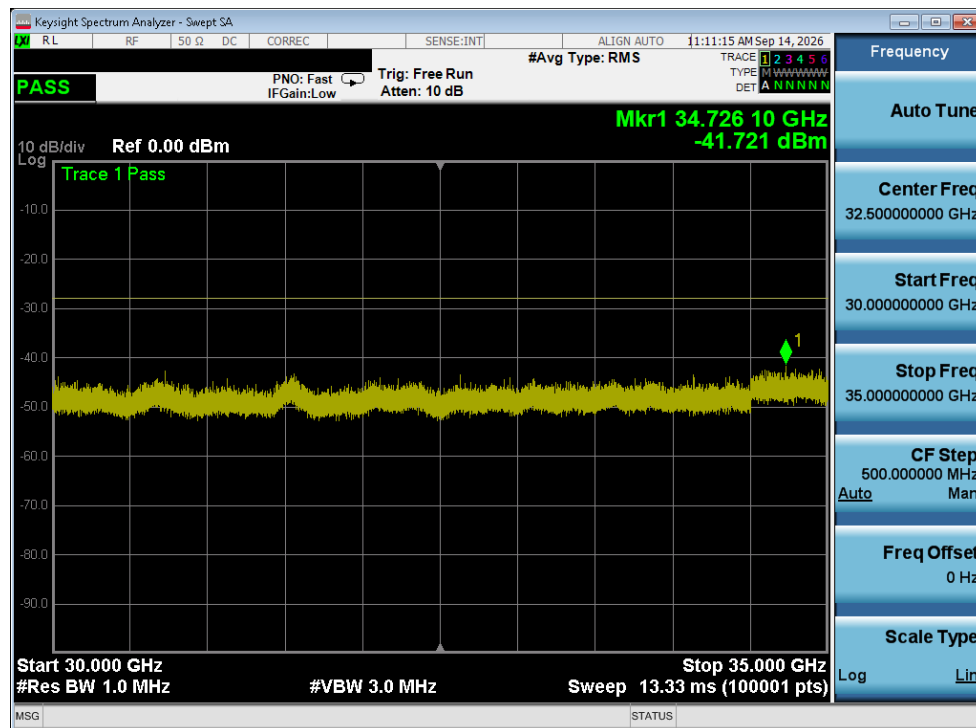


Plot 6-13. Conducted Spurious Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 23 of 37		

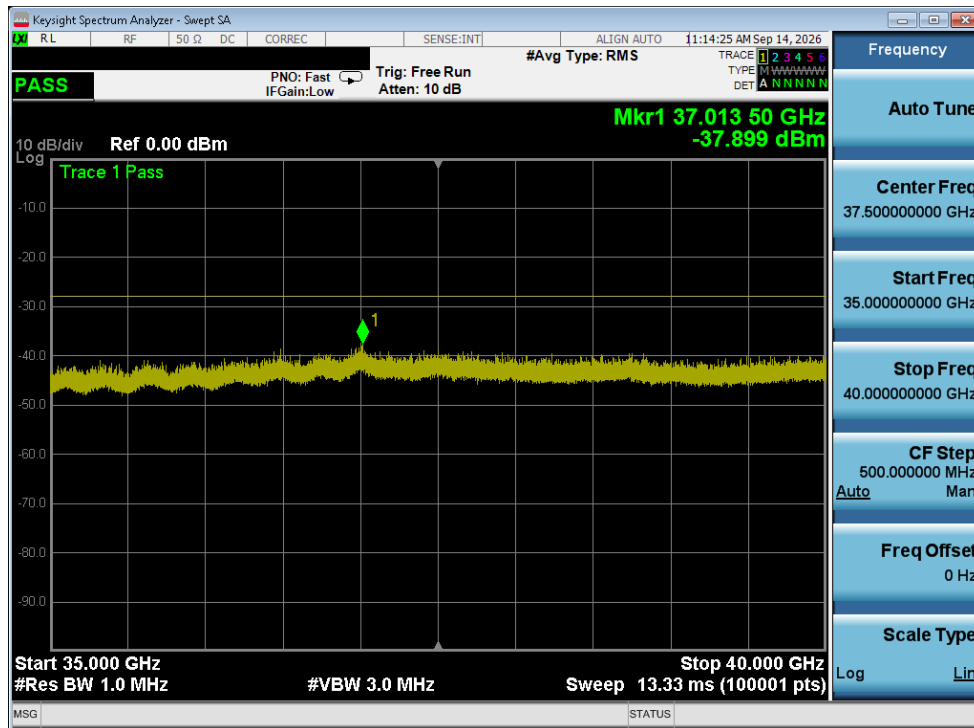


Plot 6-14. Conducted Spurious Plot (C-V2X OBU)



Plot 6-15. Conducted Spurious Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 24 of 37



Plot 6-16. Conducted Spurious Plot (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 25 of 37

6.6 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Span ≥ 4 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold
7. Sweep time = auto
8. The trace was allowed to stabilize

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 26 of 37

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

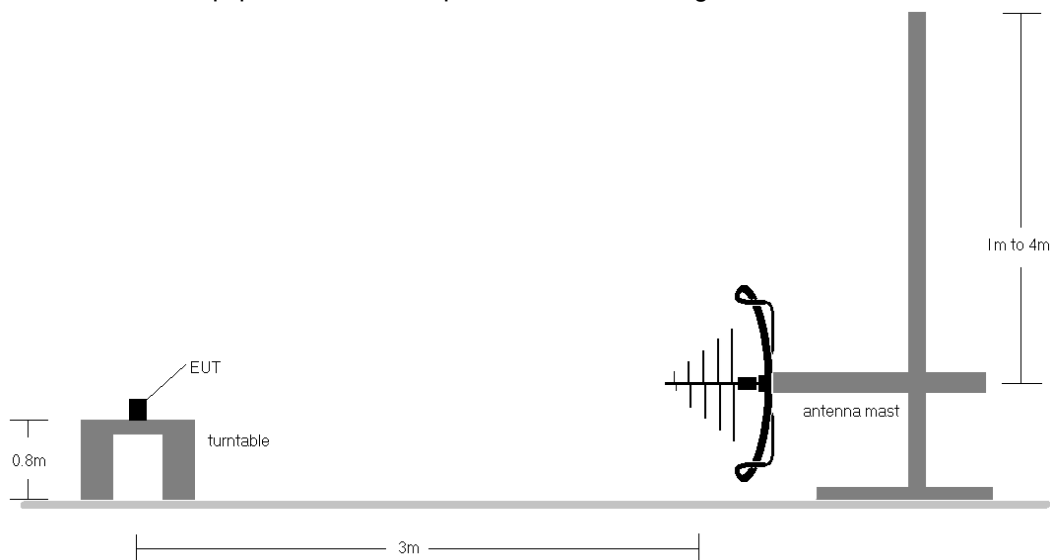


Figure 6-5. Test Instrument & Measurement Setup < 1GHz

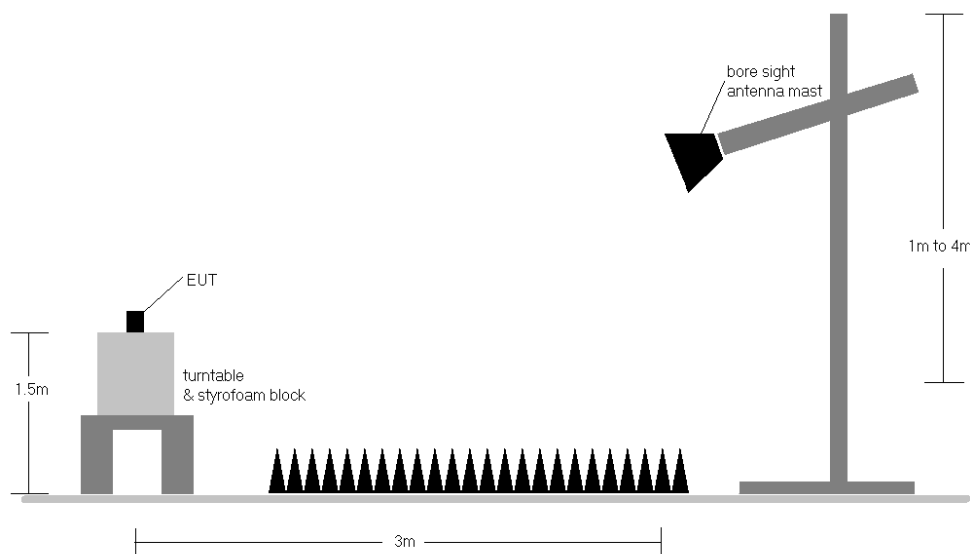


Figure 6-6. Test Instrument & Measurement Setup >1 GHz

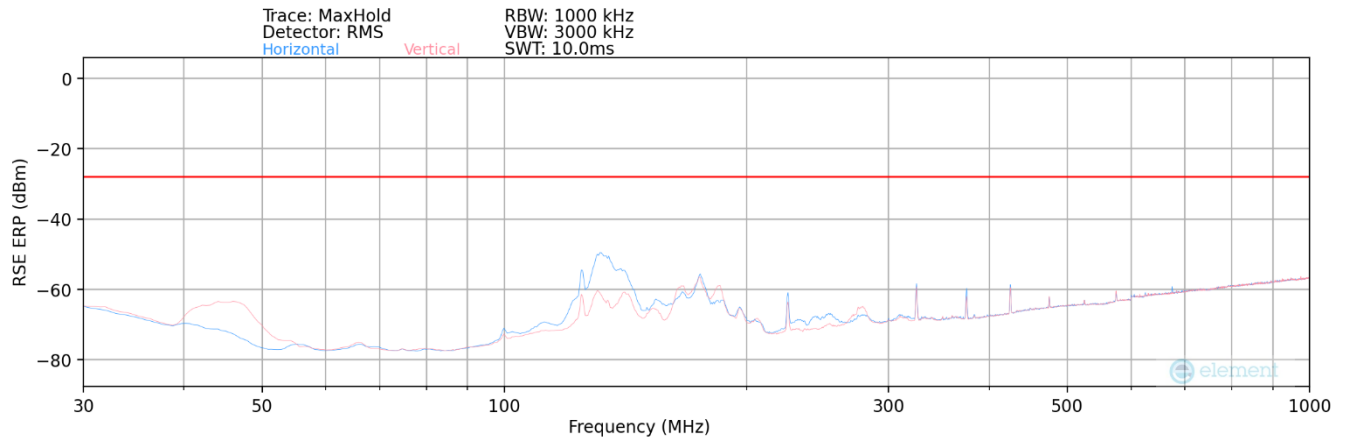
FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 27 of 37		

Test Notes

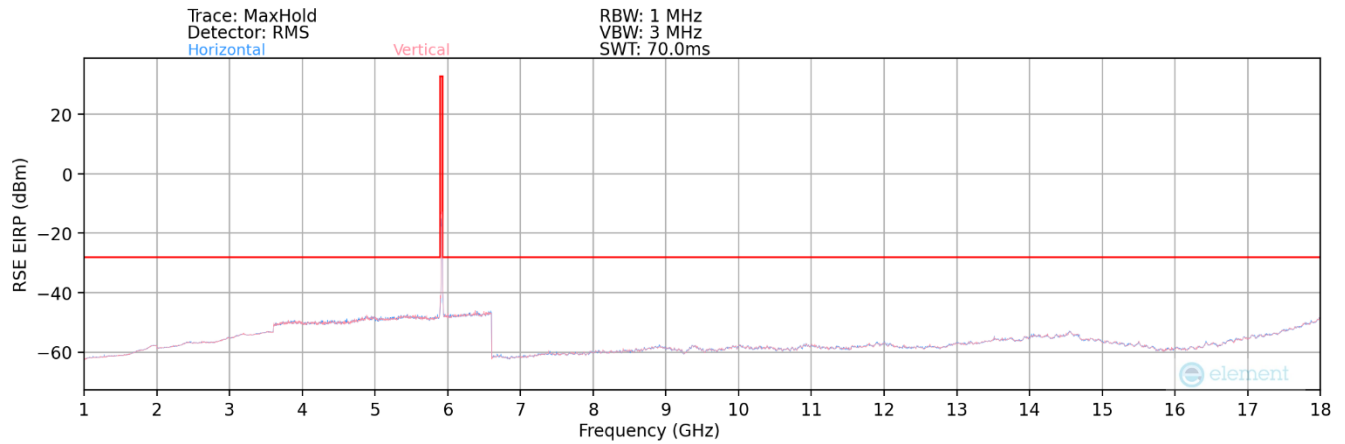
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning configurations shown in the tables below.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) Spurious emissions shown in this section are measured while operating with C-V2X transmission as well as LTE transmission, BLE transmission, and 900MHz transmission, which can operate simultaneously. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
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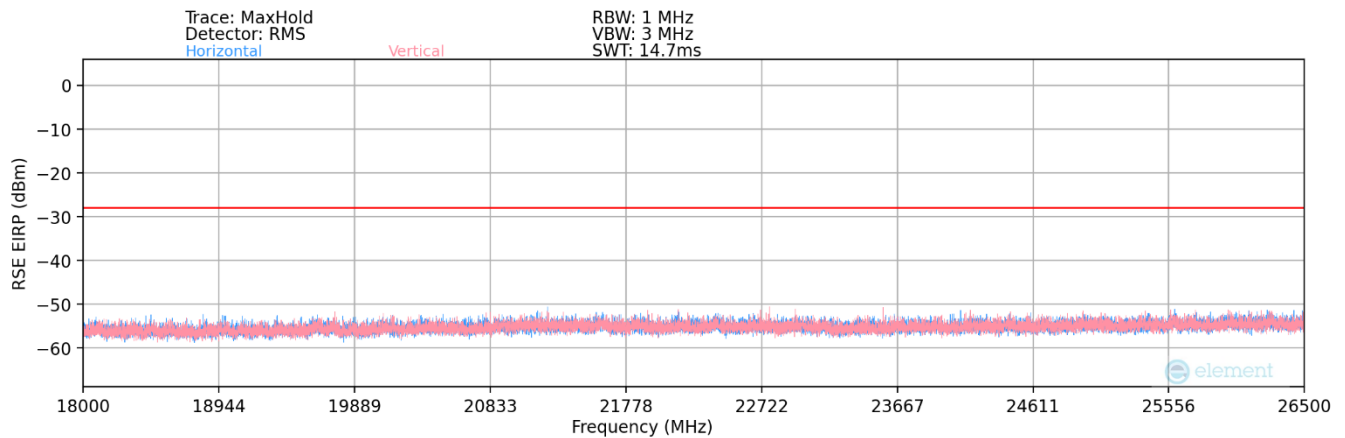
C-V2X OBU



Plot 6-17. Radiated Spurious Plot (C-V2X OBU) (30MHz – 1GHz)

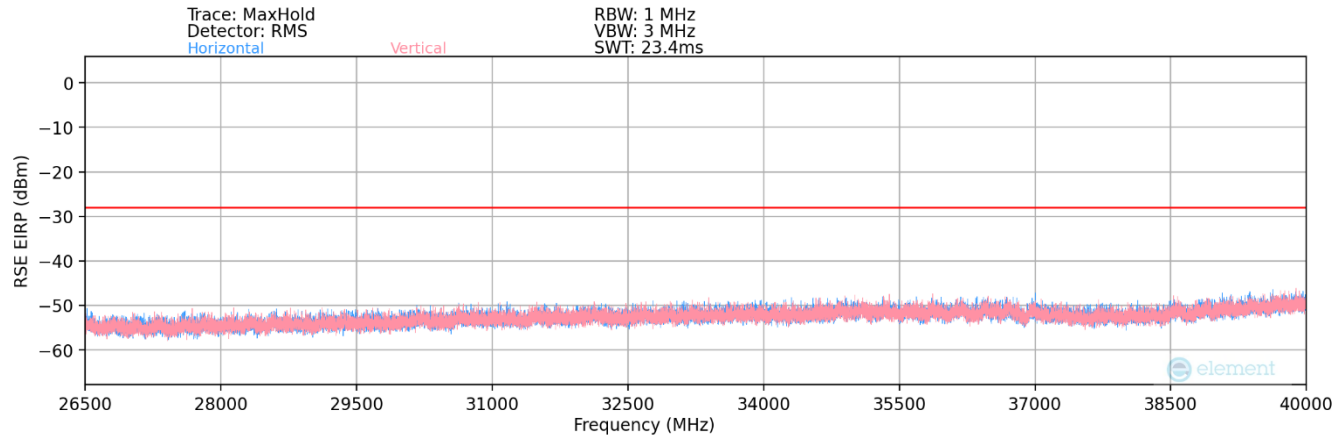


Plot 6-18. Radiated Spurious Plot (C-V2X OBU) (1GHz – 18GHz)



Plot 6-19. Radiated Spurious Plot (C-V2X OBU) (18GHz – 26.5GHz)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 29 of 37		



Plot 6-20. Radiated Spurious Plot (C-V2X OBU) (26.5MHz – 40GHz)

Bandwidth (MHz):	20
Frequency (MHz):	5915
Detector / Trace Mode:	RMS / MaxHold
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
47.00	V	156	333	-87.54	15.77	35.23	-62.18	-28.00	-34.18
134.00	H	152	174	-74.13	20.14	53.01	-44.39	-28.00	-16.39
178.00	H	213	81	-75.16	18.49	50.33	-47.08	-28.00	-19.08
224.00	H	321	66	-78.21	18.07	46.86	-50.55	-28.00	-22.55
319.00	H	254	192	-79.61	21.50	48.89	-48.51	-28.00	-20.51
382.00	H	114	358	-82.31	22.77	47.46	-49.94	-28.00	-21.94
415.00	H	305	310	-84.31	23.65	46.34	-51.06	-28.00	-23.06

Table 6-4. Radiated Spurious Data (C-V2X OBU) Below 1GHz

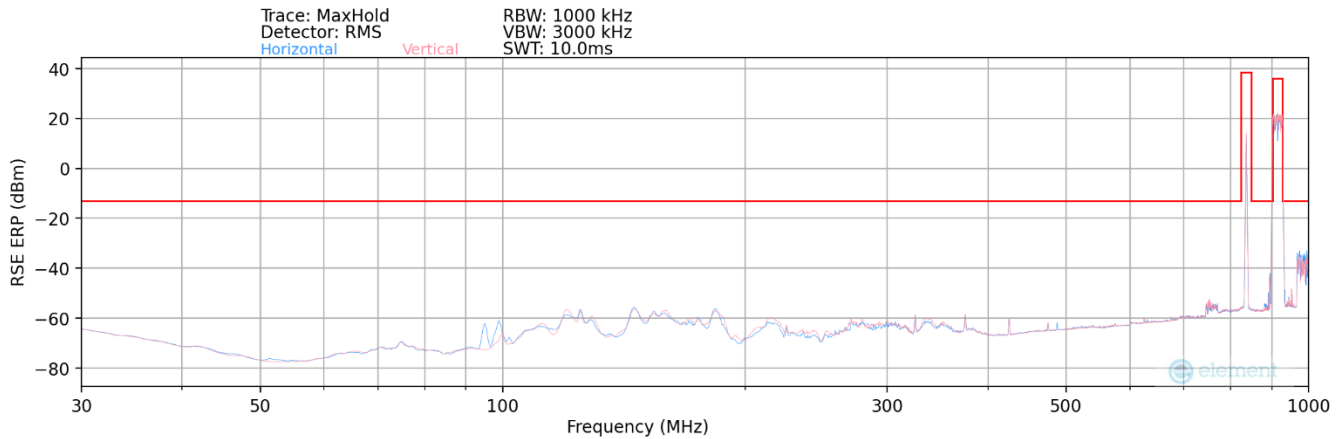
Frequency (MHz):	5915
Detector / Trace Mode:	RMS / MaxHold
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
11830.00	V	-	-	-78.85	8.99	37.14	-58.11	-28.00	-30.11
17745.00	V	-	-	-77.64	14.20	43.56	-51.69	-28.00	-23.69
23660.00	V	-	-	-63.42	3.98	47.56	-57.24	-28.00	-29.24

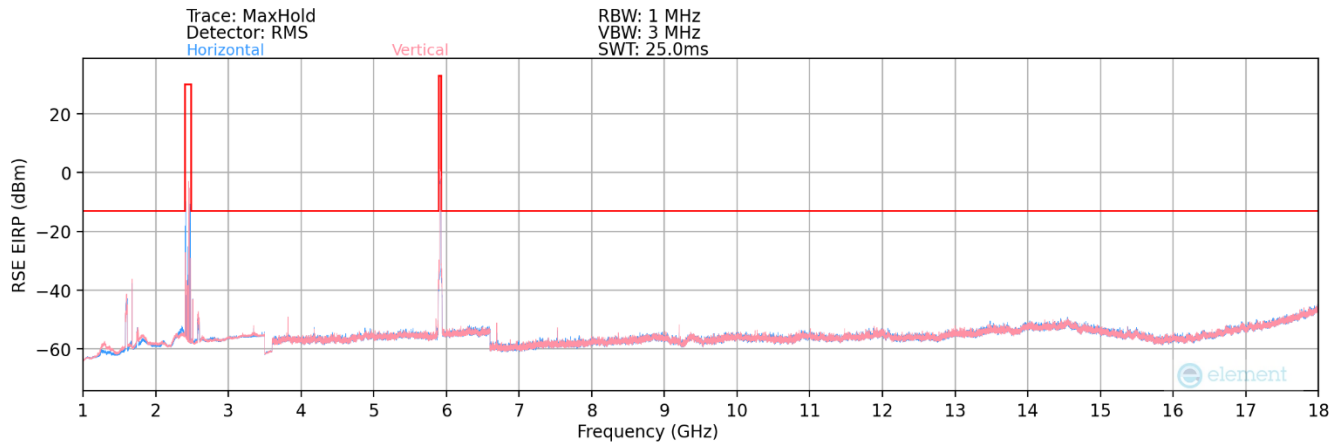
Table 6-5. Radiated Spurious Data (C-V2X OBU)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 30 of 37

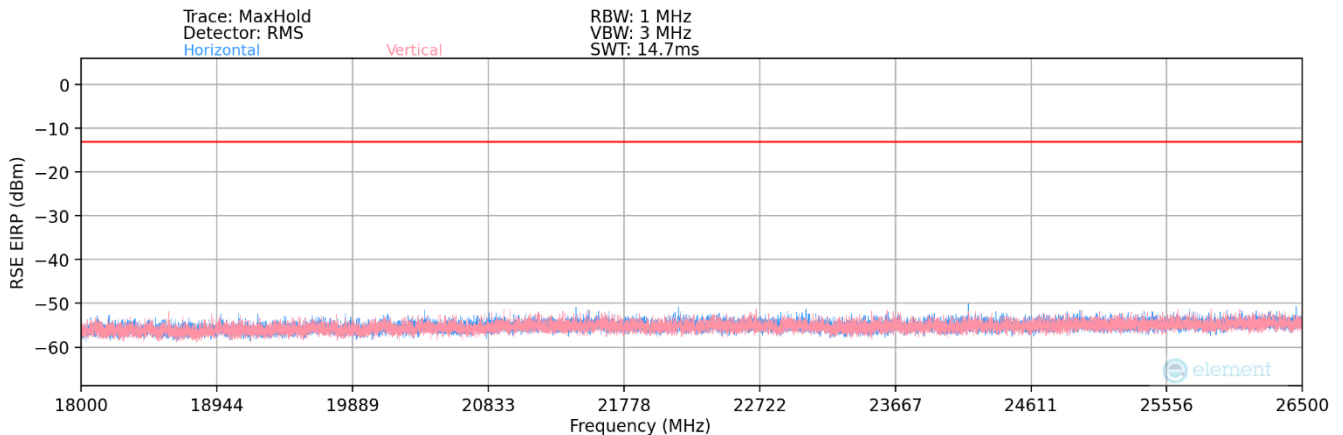
C-V2X OBU – LTE Band 5, 900MHz, BLE



Plot 6-21. Radiated Spurious Plot (C-V2X OBU – LTE BAND 5 – BLE – 900MHz)

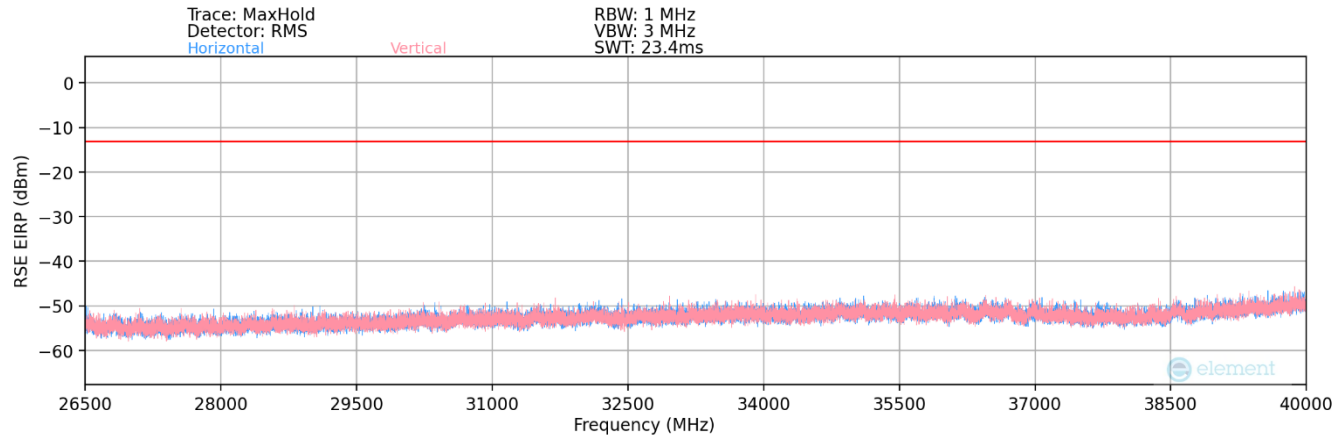


Plot 6-22. Radiated Spurious Plot (C-V2X OBU – LTE BAND 5 – BLE – 900MHz)



Plot 6-23. Radiated Spurious Plot (C-V2X OBU – LTE BAND 5 – BLE – 900MHz)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 31 of 37		



Plot 6-24. Radiated Spurious Plot (C-V2X OBU - LTE BAND 5 - BLE - 900MHz)

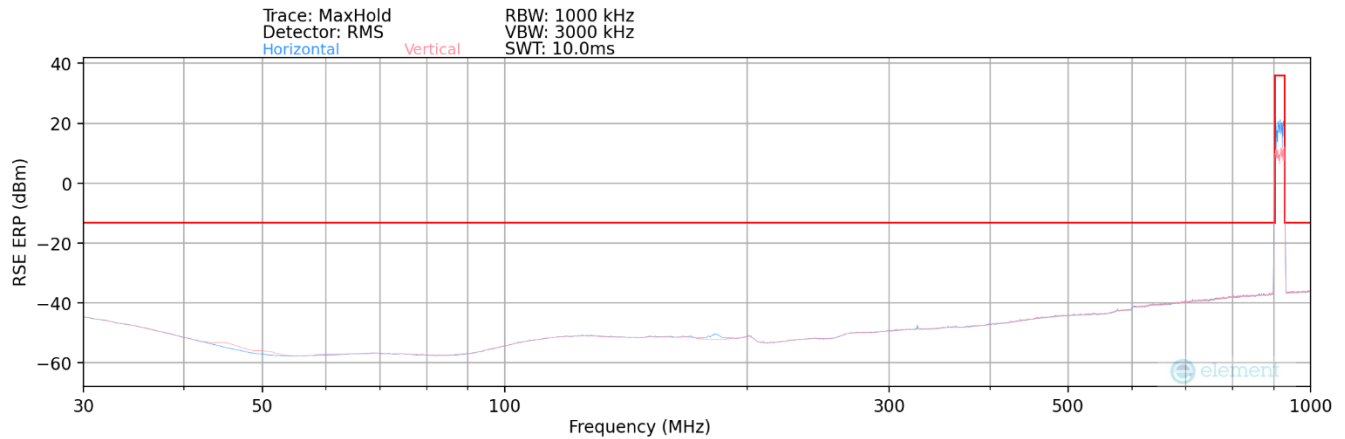
Frequency (MHz):	5915 & 836.5, 900MHz (Hopping) 2400 (Hopping)
Detector / Trace Mode:	RMS / MaxHold
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
991.00	H	146	213	-77.98	31.66	60.68	-34.58	-13.00	-21.58
1600.50	H	184	25	-59.22	-1.13	46.65	-48.61	-13.00	-35.61
1673.00	V	335	36	-61.01	-0.64	45.35	-49.91	-13.00	-36.91
3822.00	V	245	64	-73.22	7.07	40.85	-54.41	-13.00	-41.41
6600.00	V	188	89	-86.25	10.80	31.55	-63.71	-13.00	-50.71
7500.00	V	155	123	-85.98	13.50	34.52	-60.74	-13.00	-47.74

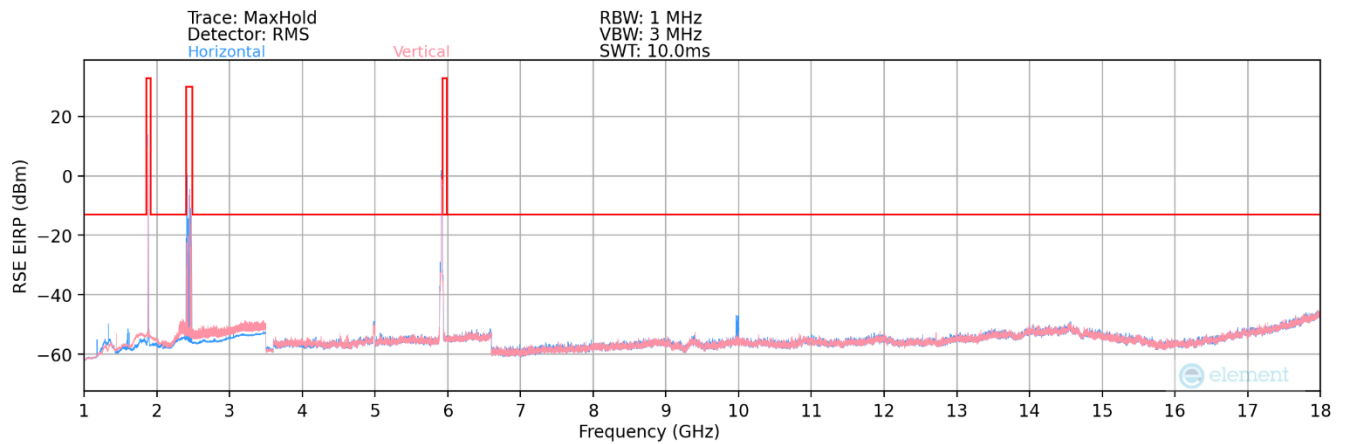
Table 6-6. Radiated Spurious Data (C-V2X OBU - LTE BAND 5 - BLE - 900MHz)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 - 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM		This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.		Page 32 of 37

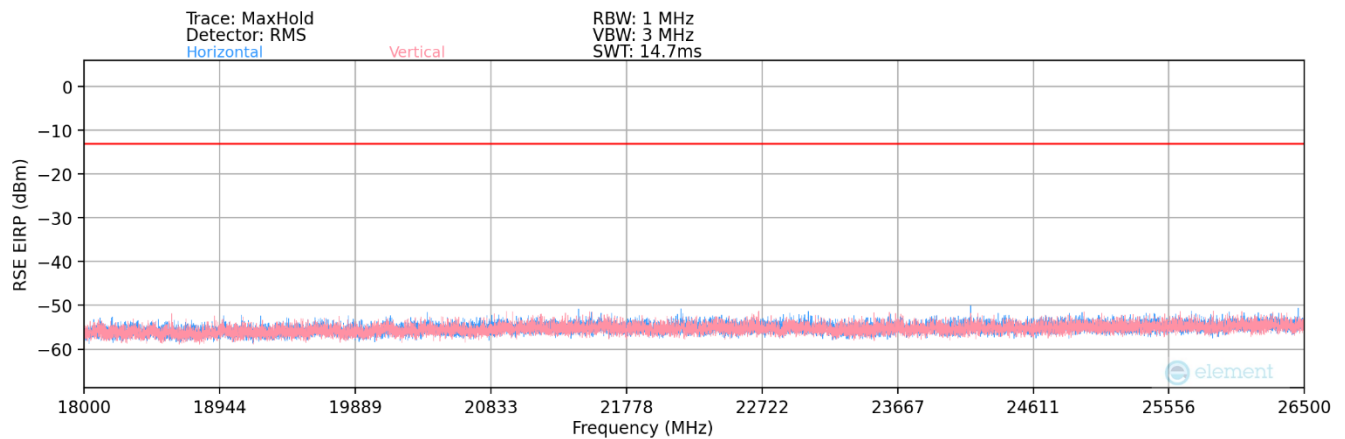
C-V2X OBU – LTE Band 2, 900MHz, BLE



Plot 6-25. Radiated Spurious Plot (C-V2X OBU – LTE BAND 2 – BLE – 900MHz)

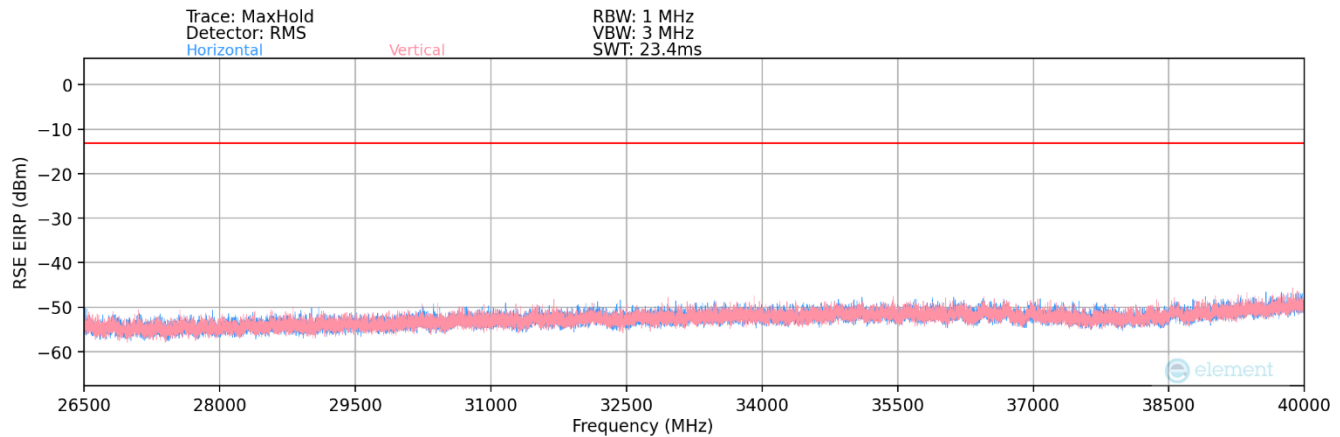


Plot 6-26. Radiated Spurious Plot (C-V2X OBU – LTE BAND 2– BLE – 900MHz)



Plot 6-27. Radiated Spurious Plot (C-V2X OBU – LTE BAND 2– BLE – 900MHz)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	Page 33 of 37		



Plot 6-28. Radiated Spurious Plot (C-V2X OBU – LTE BAND 2– BLE – 900MHz)

Frequency (MHz):	5915 & 1880, 900MHz (Hopping) 2400 (Hopping)
Detector / Trace Mode:	RMS / MaxHold
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1323.00	V	142	17	-68.68	-0.51	37.81	-57.44	-13.00	-44.44
1671.00	V	163	32	-59.15	-0.25	47.60	-47.66	-13.00	-34.66
4035.00	V	251	165	-72.00	-1.36	33.64	-71.16	-13.00	-58.16
5047.00	V	261	302	-63.04	-0.47	43.49	-61.31	-13.00	-48.31
9957.00	V	199	217	-72.47	7.95	42.48	-62.32	-13.00	-49.32

Table 6-7. Radiated Spurious Data (C-V2X OBU – LTE BAND 2– BLE – 900MHz)

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)		Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.				Page 34 of 37

6.7 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

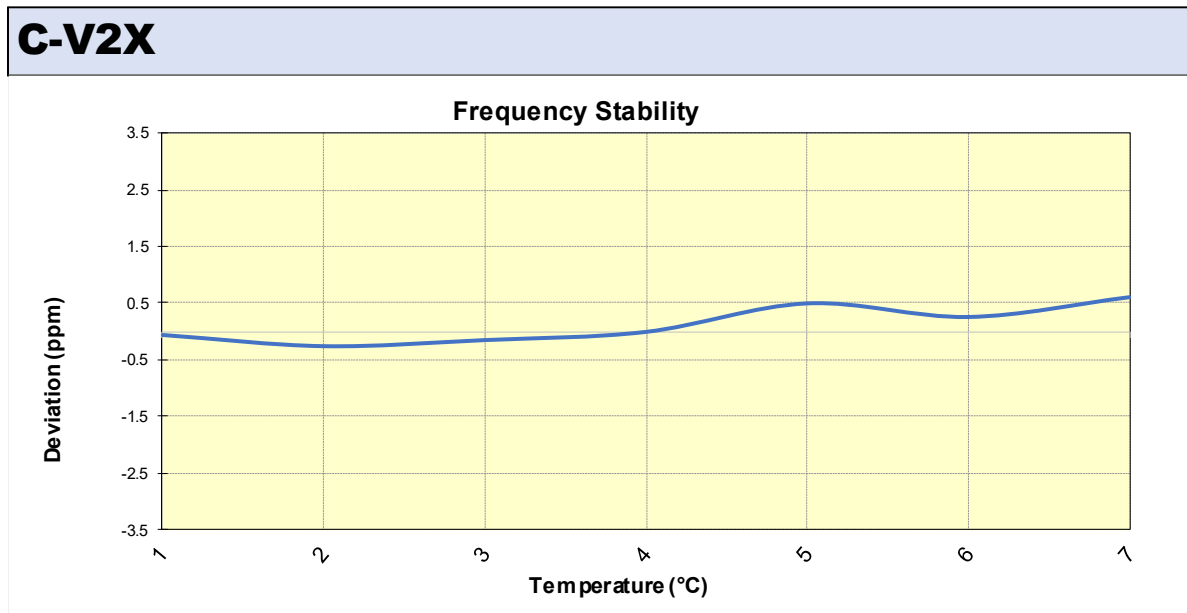
Test Notes

None

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
Test Report S/N: 1M2607220068-01-R4.2BHCM	 This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			Page 35 of 37

C-V2X					
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	24.00	- 30	5,915,022,120	-317	-0.0000054
		- 20	5,915,023,968	1,531	0.0000259
		- 10	5,915,020,970	-1,467	-0.0000248
		0	5,915,021,595	-842	-0.0000142
		+ 10	5,915,018,298	-4,139	-0.0000700
		+ 20 (Ref)	5,915,022,437	0	0.0000000
		+ 30	5,915,025,367	2,930	0.0000495
		+ 40	5,915,023,971	1,534	0.0000259
		+ 50	5,915,026,004	3,567	0.0000603
85 %	20.40	+ 20	5,915,016,268	-6,169	-0.0001043
115 %	27.60	+ 20	5,915,026,411	3,974	0.0000672

Table 6-8. Frequency Stability Data (C-V2X OBU)



Plot 6-29. Frequency Stability Chart (C-V2X OBU)

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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **OB**
FCC ID: 2BHCM-500-065-02 complies with all the requirements of Parts 95 subpart L of the FCC rules.

FCC ID: 2BHCM-500-065-02	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 8/6/2026 – 9/14/2026	EUT Type: CV2X OBU	Approved by: Technical Manager
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