

CPI Satcom & Antenna Technologies, Inc.

TEST REPORT

SCOPE OF WORK

EMISSIONS TESTING – DRU2-250W.0001

REPORT NUMBER

106502357BOX-001 REV1

ISSUE DATE

03/25/2026

[REVISED DATE]

04/23/2026

DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. June 2024
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EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 106502357BOX-001 REV1

Project Number: G106502357

Report Issue Date: 03/25/2026

Report Revision Date: 04/23/2026

Model(s) Tested: DRU2-250W.0001

Model(s) Partially Tested: None

Model(s) Not Tested but declared equivalent by the client: None

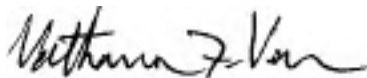
Standards: FCC 47CRF Part 25:2026

FCC 47CFR Part 15 Subpart B:2026

Tested by:
Intertek
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
CPI Satcom & Antenna Technologies, Inc.
1000 Klein Road
Plano, TX 75074
USA

Report prepared by



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Report reviewed by



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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	--
4	Description of Equipment Under Test and Variant Models	--
5	System Setup and Method	--
6	RF Output Power (FCC Part 2.1046, FCC Part 25.144(e)(7)(ii) & FCC Part 25.214(d)(1))	Pass
7	Peak-to-Average Power Ratio (PAPR) (FCC Part 2.1046, FCC Part 25.144(e)(7)(ii) & FCC Part 25.214(d)(1))	Pass
8	Occupied Bandwidth (FCC Part 2.1049, 25.202(a)(6) & FCC Part 25.202(h))	Pass
9	Transmitter Conducted Spurious Emissions and Band edge (FCC Part 2.1051, FCC Part 2.1057 & FCC Part 25.202(h)(1))	Pass
10	Transmitter Radiated Spurious Emissions (FCC Part 2.1053, FCC Part 2.1057 & FCC Part 25.202(h)(1))	Pass
11	Frequency Stability (FCC Part 2.1055 & FCC Part 25.202(d))	Pass
12	Radiated Spurious Emissions of Digital Device (FCC Part 15 Subpart B:2026)	Pass
13	Conducted Emissions (FCC 47CFR Part 15 Subpart B:2026, FCC 47CFR Part 15.107:2026)	Pass
14	Revision History	--

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3 Client Information

This EUT was tested at the request of:

Client: CPI Satcom & Antenna Technologies, Inc.
1000 Klein Road
Plano, TX 75074
USA

Contact: David Welsch
Email: dave.welsch@cpil.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: CPI Satcom & Antenna Technologies, Inc.
1000 Klein Road
Plano, TX 75074
USA

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Base station SDARS terrestrial repeater	CPI Satcom & Antenna Technologies, Inc.	DRU2-250W.0001	253849601

Receive Date:	08/12/2025
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)
The EUT is a base station SDARS terrestrial repeater for use by broadcasters to maximize service availability in areas challenged by shadowed satellite coverage. It receives input data either from a modem using UDP (User Datagram Protocol) or from an S-band satellite input. The Dual-Band Exciter 2 (DBE2) LRU transcodes the inputs to Low-Band (LB) and High-Band (HB) COFDM waveforms. High-power amplifiers in the DRU2 system amplify the LB and HB signals in separate paths. Couplers and detectors monitor RF forward and reflected power from each band and the system

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
120/240 VAC 208 VAC	32 A	50/60 Hz	3W+PE 2W+N+PE

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Pseudorandom Binary Sequence (PRBS) manual test – Exciter outputs typical waveforms for each band, system transmits at specified output power in both bands simultaneously.

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Software used by the EUT:

No.	Descriptions of EUT Exercising
1	LRU: SCM MCU, FW version: 0.3.15
2	LRU: SCM NIC, FW version: 0.9.14
3	LRU: HPAs, FW version: 0.3.6
4	LRU: AHXs, FW version: 0.3.3
5	LRU: LHXs, FW version: 5.0.0
6	LRU: TVMS, FW version: 0.3.7
7	LRU: TVMS, FW version: 0.3.7

Transmitter Characteristics	
Frequency Band(s)	Low band: 2324.244 to 2328.256 MHz High band: 2336.225 to 2341.285 MHz
Modulation Type(s)	COFDM
Maximum Output Power	Low Band: 54.039 dBm (Conducted) High Band: 53.978 dBm (Conducted)
Test Channels	2 (High band and Low Band)
Occupied Bandwidth	Low Band: 4.06 MHz High Band: 5.02 MHz
Frequency Hopper: Number of Hopping Channels	N/A
Frequency Hopper: Channel Dwell Time	N/A
Frequency Hopper: Max interval between two instances of use of the same channel	N/A
MIMO Information (# of Transmit and Receive antenna ports)	N/A
Equipment Type	Standalone
Antenna Type and Gain	Alive Telecom ATC-VO10-5000T2, Gain: 10 dBi (In practice, alternate antennas may be substituted in the field provided that the output power in combination with the net gain of the transmission system are less than or equal to the 12kW max average EIRP)

Variant Models:

The following variant models were not tested as part of this evaluation and are not eligible for certification; but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

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5 System Setup and Method

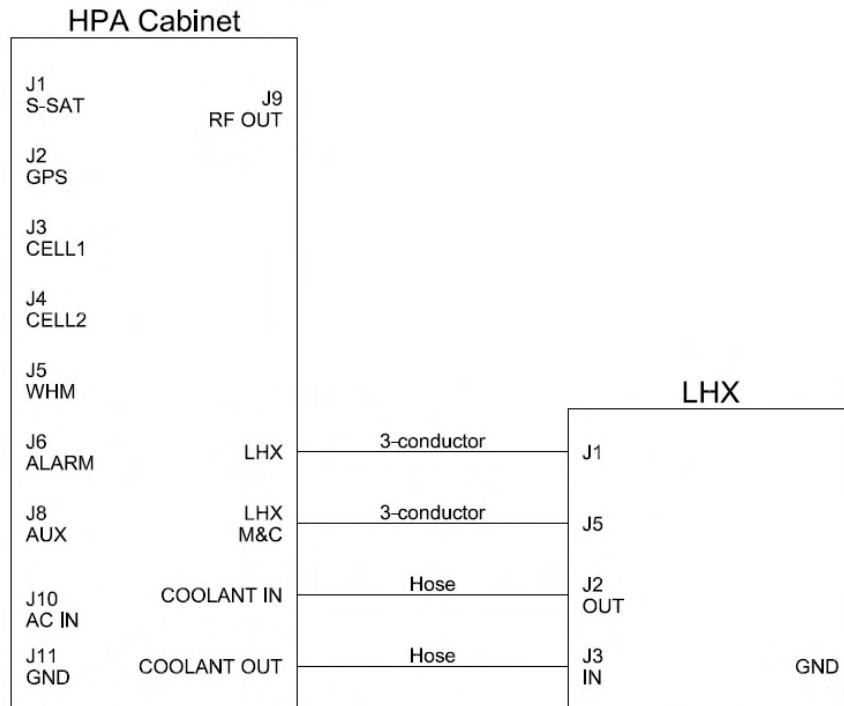
Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
1	AC In	> 3	None	None	AC mains
2	GND, 3/8" stud	< 3	Braid shield	None	PE
3	AUX Cable grip, CAT7	> 3	Shielded	None	PC (support equipment)
4	Coaxial	< 3	Shielded	None	Dual directional coupler and termination (support equipment)

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
Laptop PC	Lenovo	Thinkpad X1	Not labelled

5.1 Method:

Configuration as required by FCC 47CRF Part 25:2026, FCC 47CFR Part 15 Subpart B:2026, ANSI C63.26:2015, and ANSI C63.4:2014.

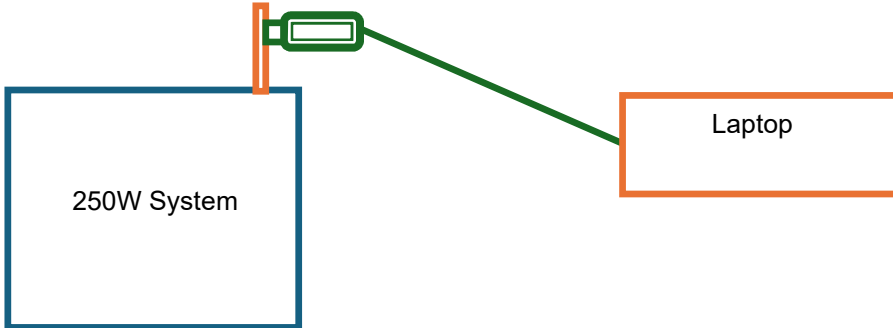
5.2 EUT Block Diagram:



6 RF Output Power

6.1 Method

Tests are performed in accordance with ANSI C63.26.



- 1) Testing was performed using the power meter by connecting it to the antenna port.
- 2) The power meter was connected to the laptop via USB cable and the conducted output power was displayed on the laptop.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

6.2 Limit:

FCC Part §25.214(d)(1) SDARS terrestrial repeaters must be operated at a power level less than or equal to 12-kW or 70.79 dBm average EIRP, with a maximum peak-to-average power ratio of 13 dB.

6.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
None	USB Wide Dynamic Range Average Power Sensor 10MHz - 18GHz	Keysight Technologies	U2043XA	MY55280011	09/29/2025	09/29/2026
None	Coaxial coupler	Werlatone	C8249-20	133324	11/13/2025	11/13/2026
None	Coaxial termination	Bird Technologies	8251	204	VBV	Verified

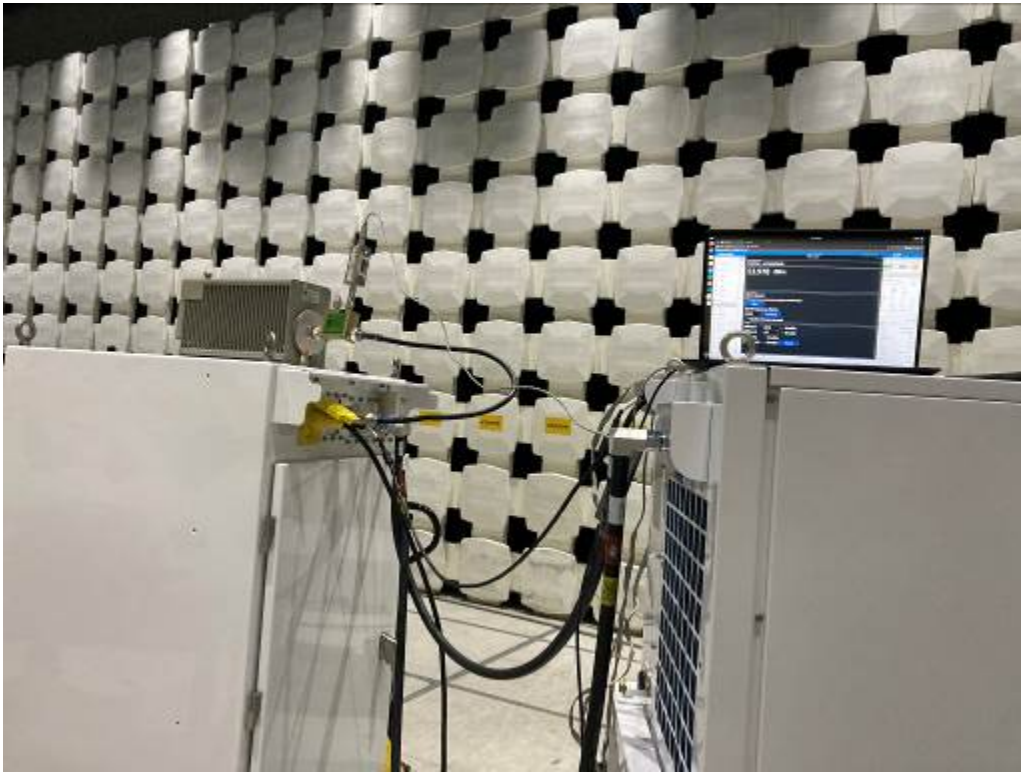
Software Utilized:

Name	Manufacturer	Version
None		

6.4 Results:

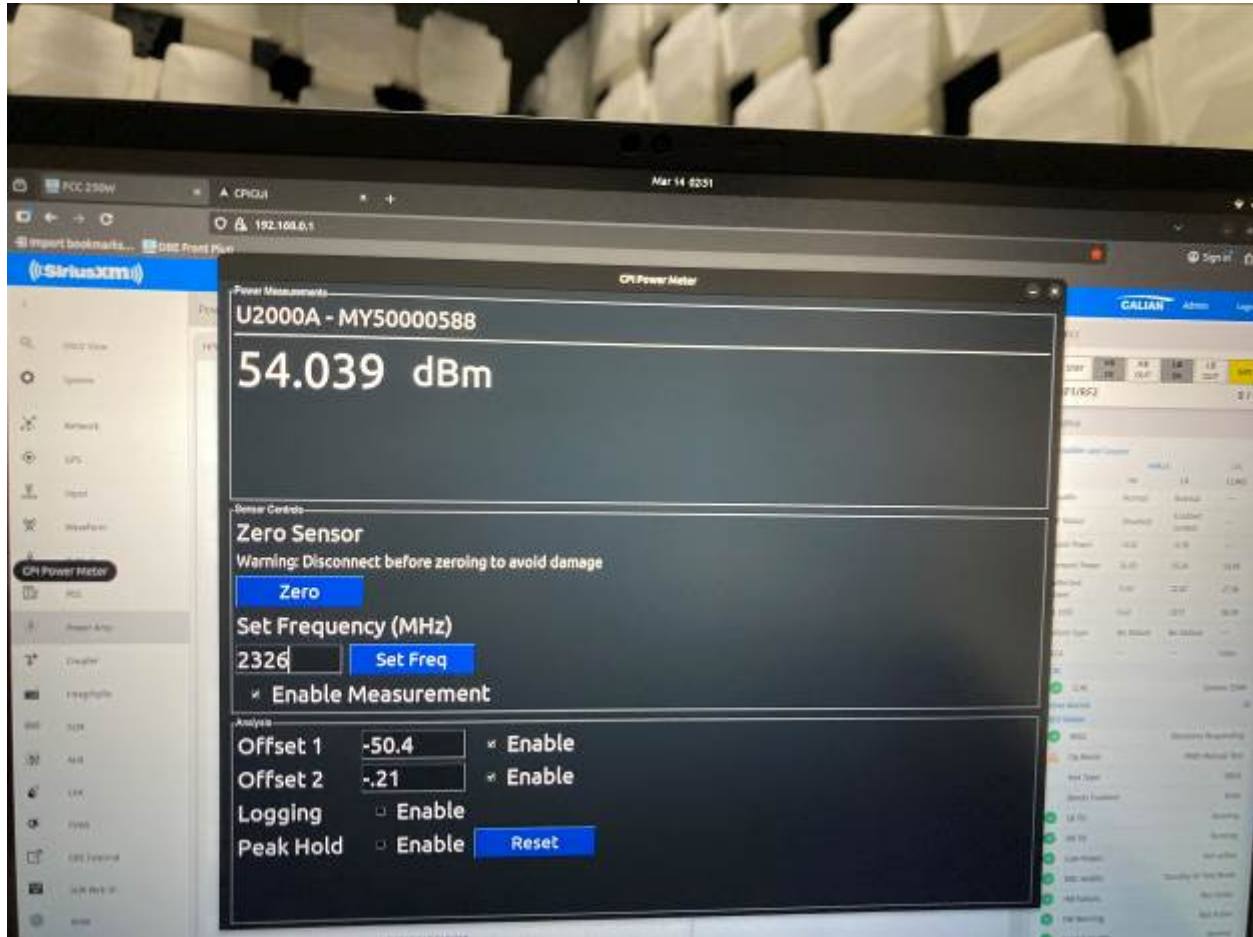
The sample tested was found to Comply.

6.5 Setup Photograph:



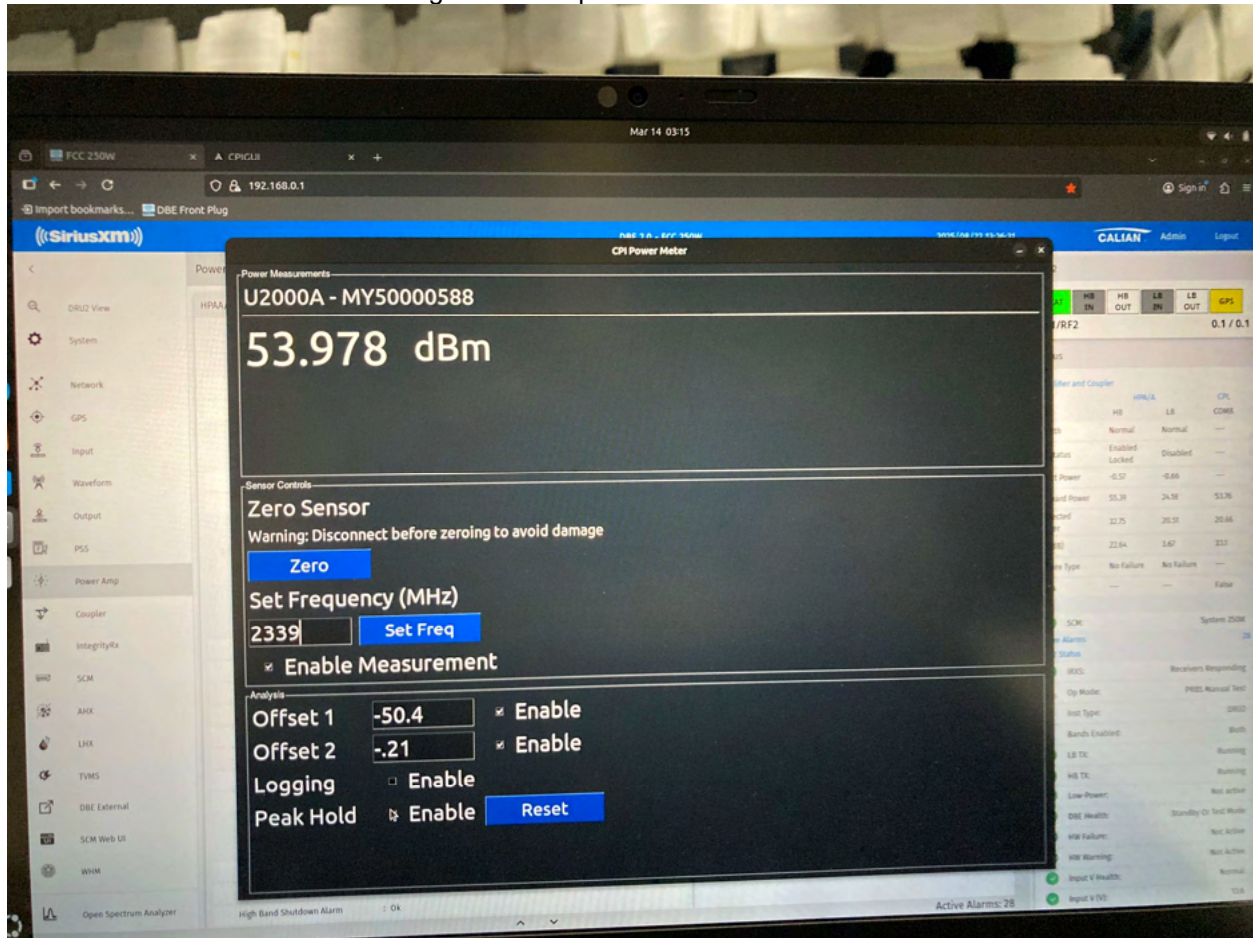
6.6 Test Data:

Low Band Output Power: 54.039 dBm



Note: Cable loss and coupler factors were internally compensated.

High Band Output Power: 53.978 dBm



Note: Cable loss and coupler factors were internally compensated.

Band	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Band	54.039	10	64.039	70.79	-6.812
High Band	53.978	10	63.978	70.79	-6.812

EIRP = Conducted power + Antenna gain

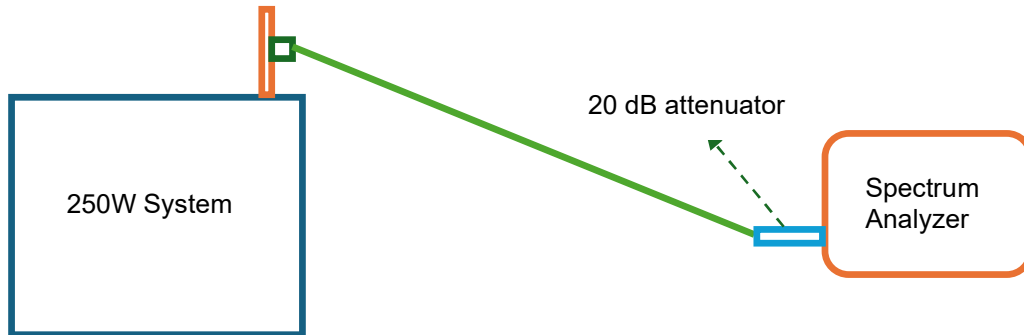
Product Standard: FCC Part 25				Limit applied: See section 6.2 Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
03/13/2025	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Tx mode	24	48	1012

Deviations, Additions, or Exclusions: None

7 Peak-to-Average Power Ratio (PAPR)

7.1 Method

Tests are performed in accordance with ANSI C63.26.



- 1) Testing was performed by connecting the antenna port to the spectrum analyzer via a 20 dB attenuator.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

7.2 Limit:

FCC Part §25.214(d)(1) SDARS terrestrial repeaters must be operated at a power level less than or equal to 12-kW or 70.79 dBm average EIRP, with a maximum peak-to-average power ratio of 13 dB.

7.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Schwartz	FSW43	100646	01/29/2026	01/29/2027
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	03/06/2025	03/06/2026
None	Coaxial coupler	Werlatone	C8249-20	133324	11/13/2025	11/13/2026
None	Coaxial termination	Bird Technologies	8251	204	VBV	Verified

Software Utilized:

Name	Manufacturer	Version
None		

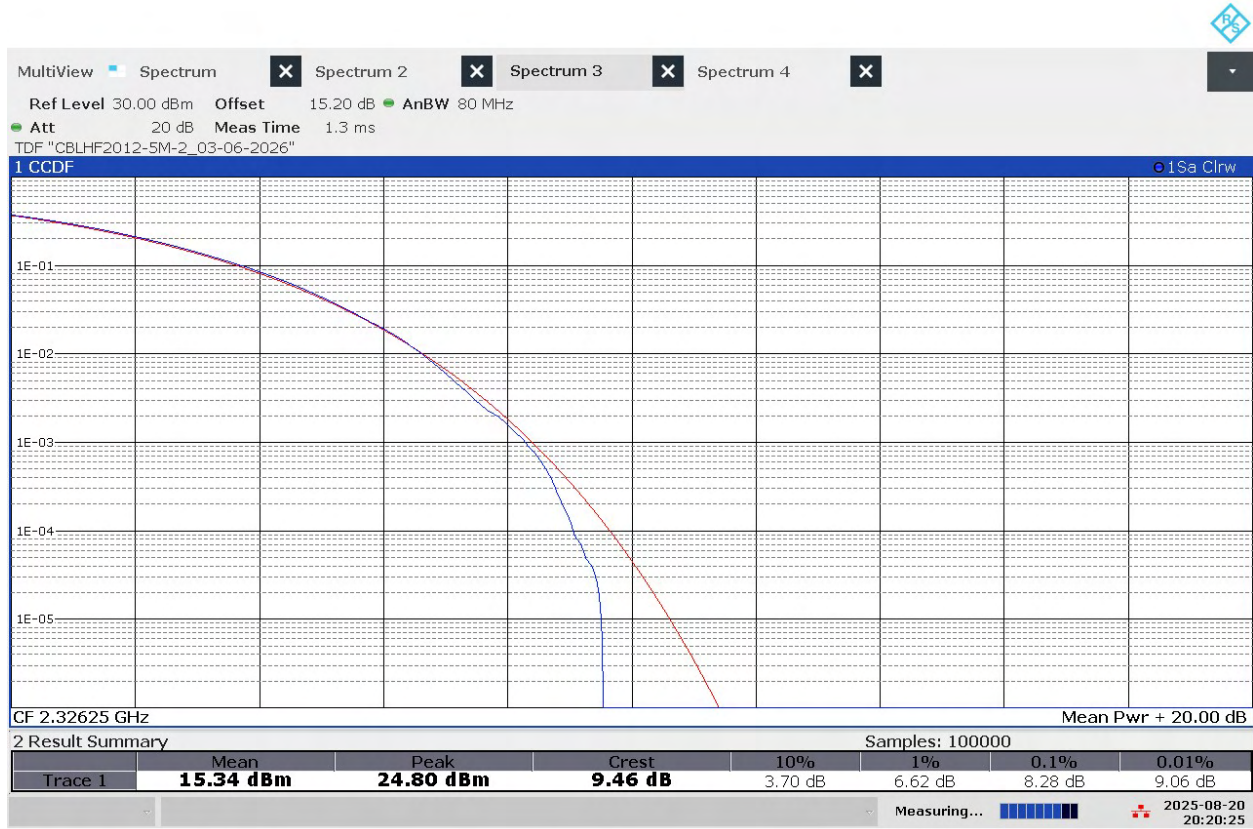
7.4 Results:

The sample tested was found to Comply.

7.5 Setup Photograph:

7.6 Plots/Data:

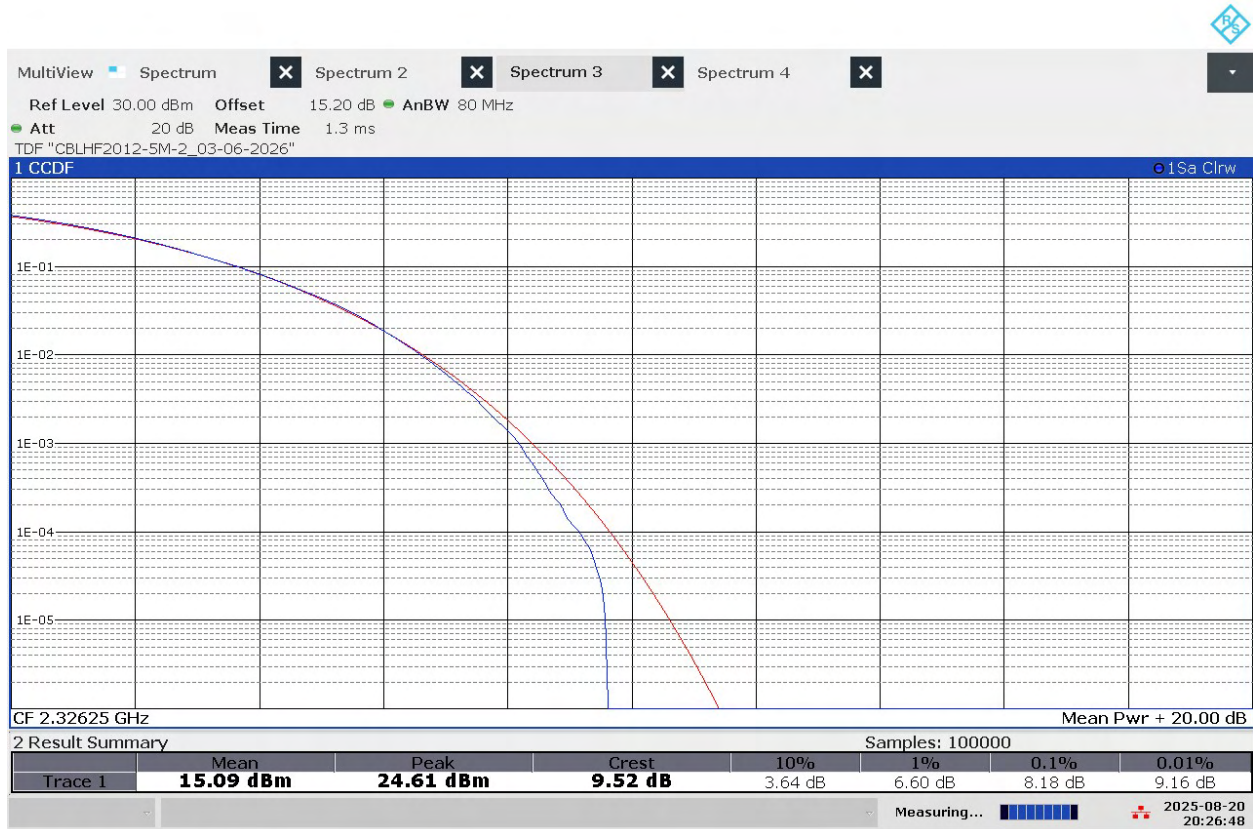
Low Band CCDF: 9.06 dB



08:20:26 PM 08/20/2025

Note: Cable loss and coupler factors were internally compensated.

High Band CCDF: 9.16 dBm



08:26:49 PM 08/20/2025

Note: Cable loss and coupler factors were internally compensated.

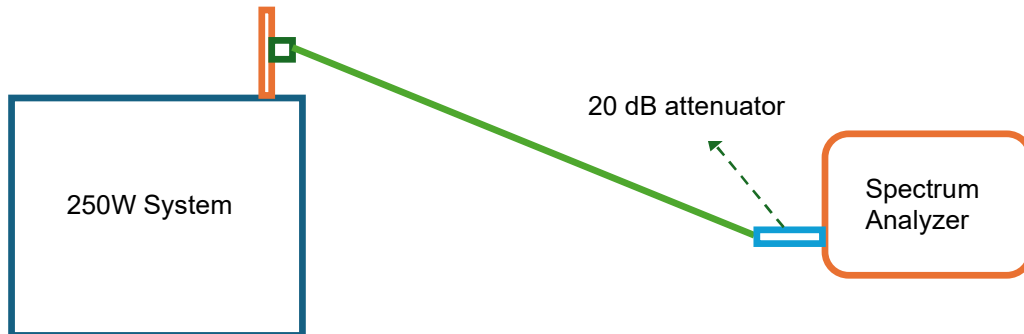
Product Standard: FCC Part 25					Limit applied: See section 7.2		
					Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
08/20/2025	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~ 3PH	Tx mode	24	48	1012

Deviations, Additions, or Exclusions: None

8 Occupied Bandwidth and 26 dB Bandwidth

8.1 Method

Tests are performed in accordance with ANSI C63.26.



- 1) Testing was performed by connecting the antenna port to the spectrum analyzer via a 20 dB attenuator.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

8.2 Limit:

FCC Part § 2.1049: The occupied bandwidth shall be within the authorized frequency band of §25.202(a)(6) under which the equipment is operated.

8.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Schwartz	FSW43	100646	01/29/2026	01/29/2027
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	03/06/2025	03/06/2026
None	Coaxial coupler	Werlatone	C8249-20	133324	11/13/2025	11/13/2026
None	Coaxial termination	Bird Technologies	8251	204	VBV	Verified

Software Utilized:

Name	Manufacturer	Version
None		

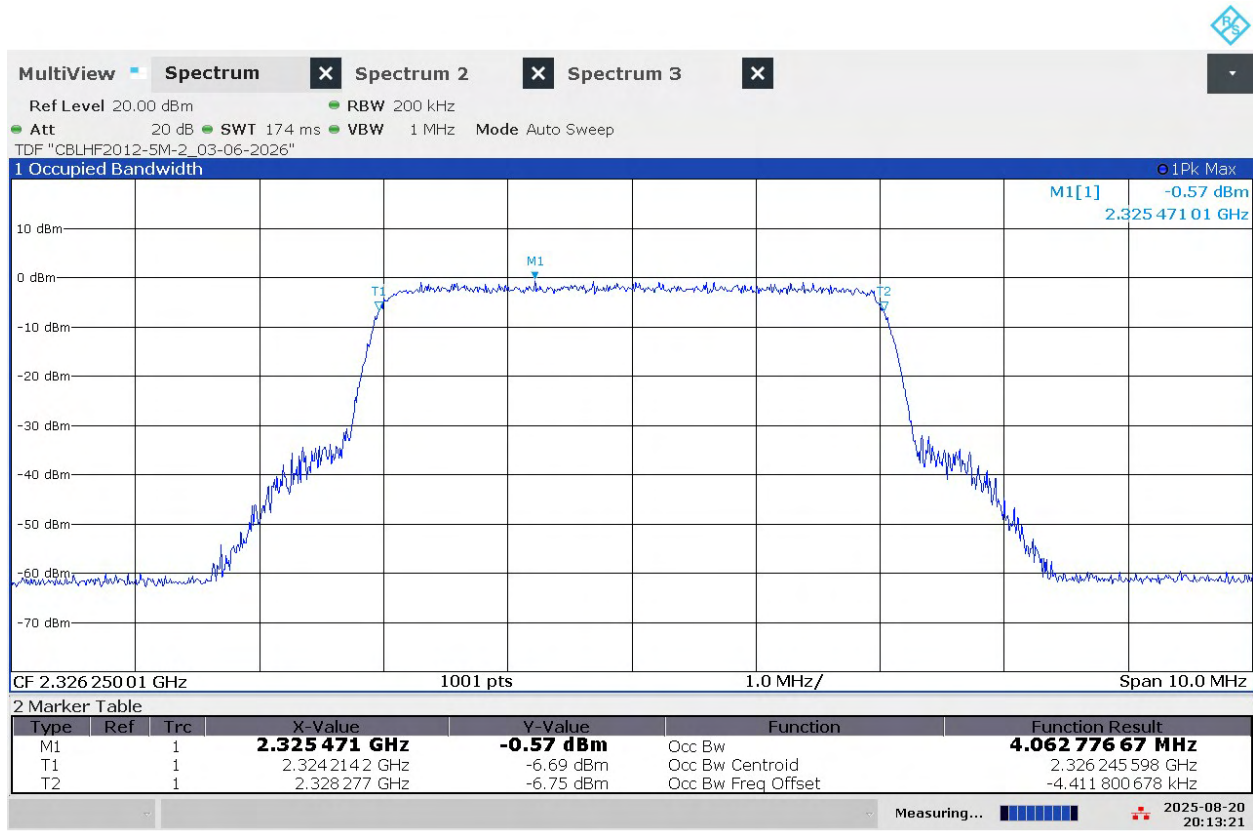
8.4 Results:

The sample tested was found to Comply.

8.5 Setup Photograph:

8.6 Plots/Data:

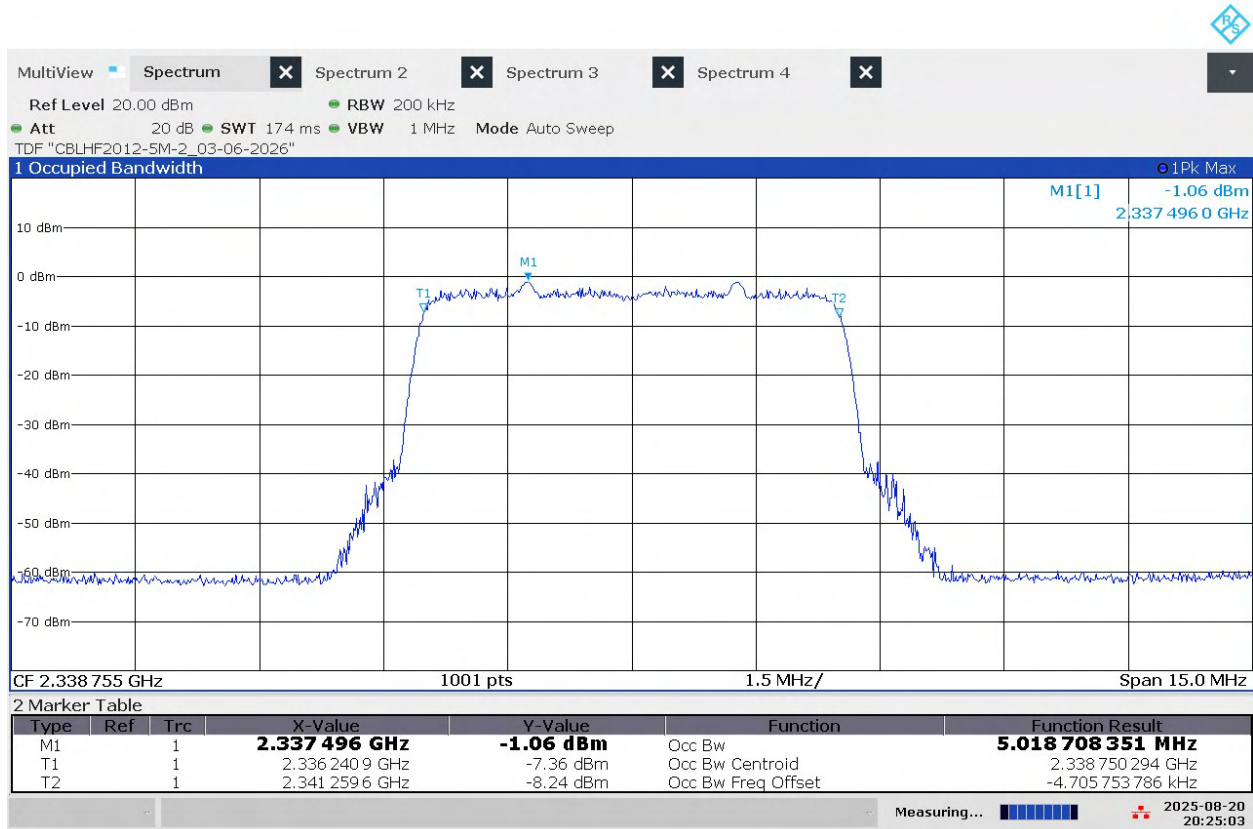
Low Band OBW: 4.062 MHz



08:13:21 PM 08/20/2025

Note: Cable loss and coupler factors were internally compensated.

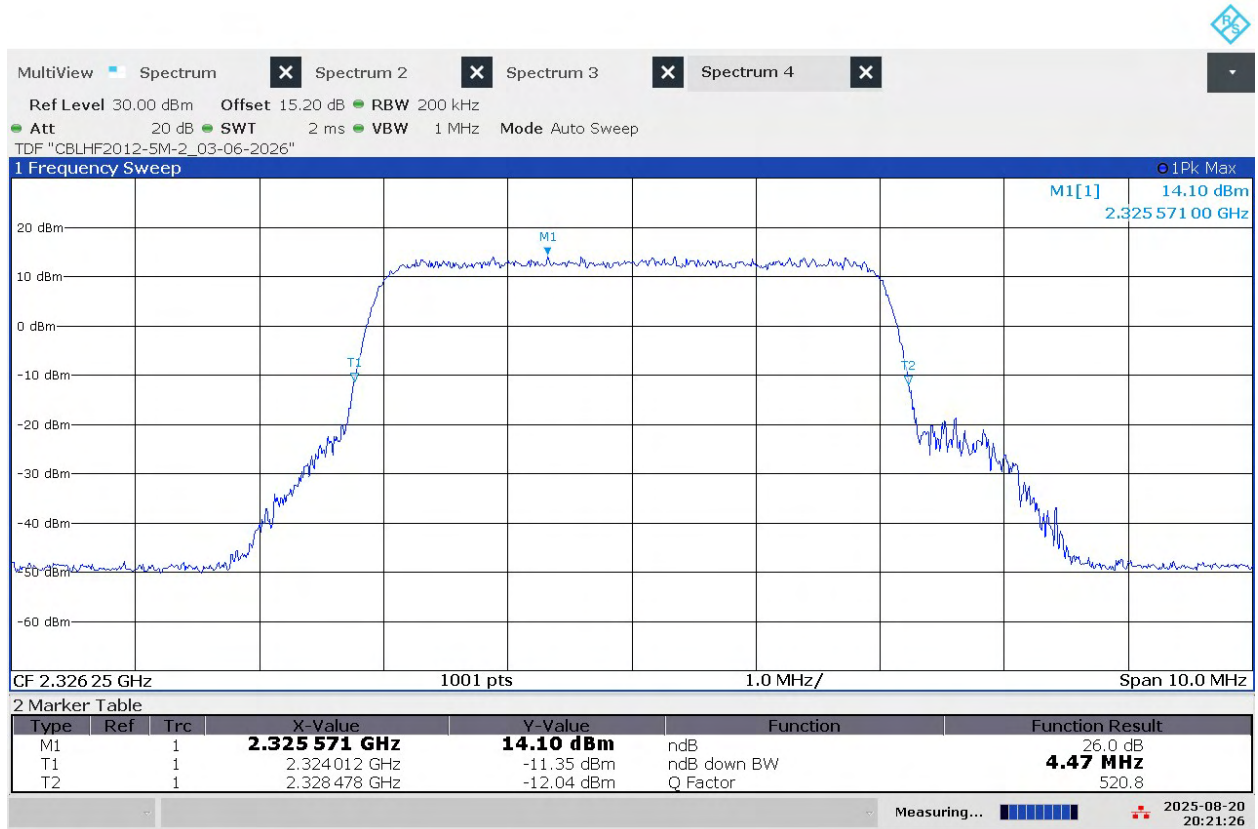
High Band OBW: 5.02 MHz



08:25:04 PM 08/20/2025

Note: Cable loss and coupler factors were internally compensated.

Low Band 26 dB Bandwidth: 4.47 MHz



08:21:26 PM 08/20/2025

Note: Cable loss and coupler factors were internally compensated.

High Band 26 dB Bandwidth: 5.44 MHz



08:23:55 PM 08/20/2025

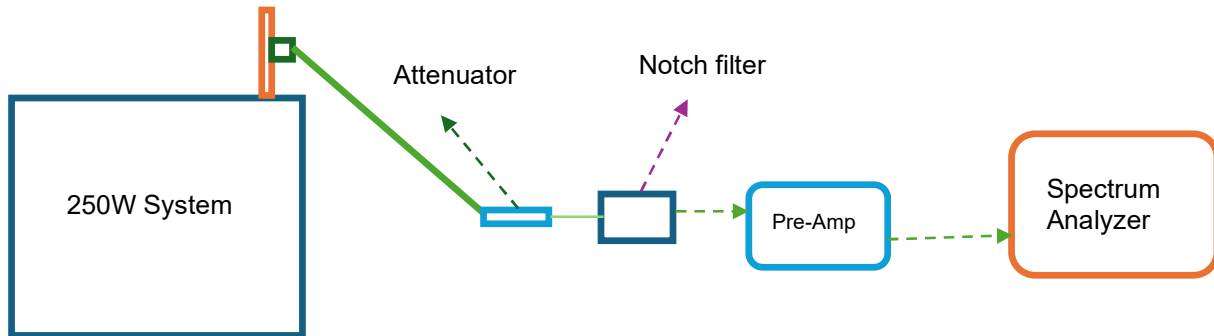
Product Standard: FCC Part 25					Limit applied: See section 8.2 Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
08/18/2025	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Tx mode	24	48	1012

Deviations, Additions, or Exclusions: None

9 Transmitter Conducted Spurious Emissions and Band Edge

9.1 Method

Tests are performed in accordance with ANSI C63.26.



- 1) Testing was performed by connecting the antenna port to the spectrum analyzer via an attenuator, notch filter, and pre-amp.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

9.2 Limit:

FCC Part §25.202(h)(1) Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than $90 + 10 \log(P)$ dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts.

9.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Schwartz	FSW43	100646	01/29/2026	01/29/2027
CBL030'	High Frequency Cable 40GHz	Megaphase	TM40 K1K1 80	CBL030	03/06/2025	03/06/2026
CBLSHF202'	Cable, SMA - SMA, 9kHz-40GHz	Sucoflex (Huber Suhm)	104PE	CBLSHF202	03/06/2025	03/06/2026
RENT010'	100MHz to 18GHz pre-amplifier 48dB gain	EMC Shop	PA18G-HA	001366	11/18/2025	11/18/2026
CBLSHF102'	Cable, SMA - SMA, 9kHz-40GHz (Cable Kit 5)	Sucoflex (Huber Suhm)	104PE	CBLSHF102	03/11/2025	03/11/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
None	Attenuator	Pasternack	PE7AP200-20	None	02/16/2026	02/16/2027
None	Low-pass filter	Mini-Circuits	SLP-50	None	NA	NA
None	Low-pass filter	Mini-Circuits	SLP-450	None	NA	NA
None	Attenuator	Pasternack	PE7AP200-20	None	02/16/2026	02/16/2027
None	Attenuator	Fairview Microwave	FMAT7484-20	None	03/03/2026	03/03/2027

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Software Utilized:

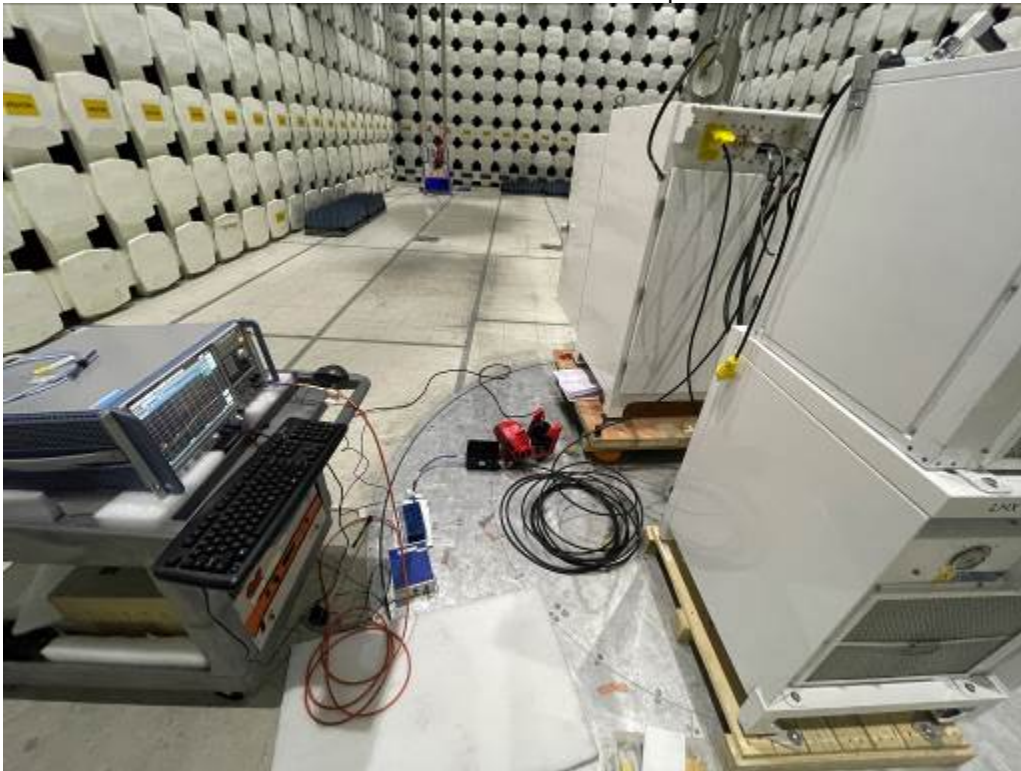
Name	Manufacturer	Version
None		

9.4 Results:

The sample tested was found to Comply.

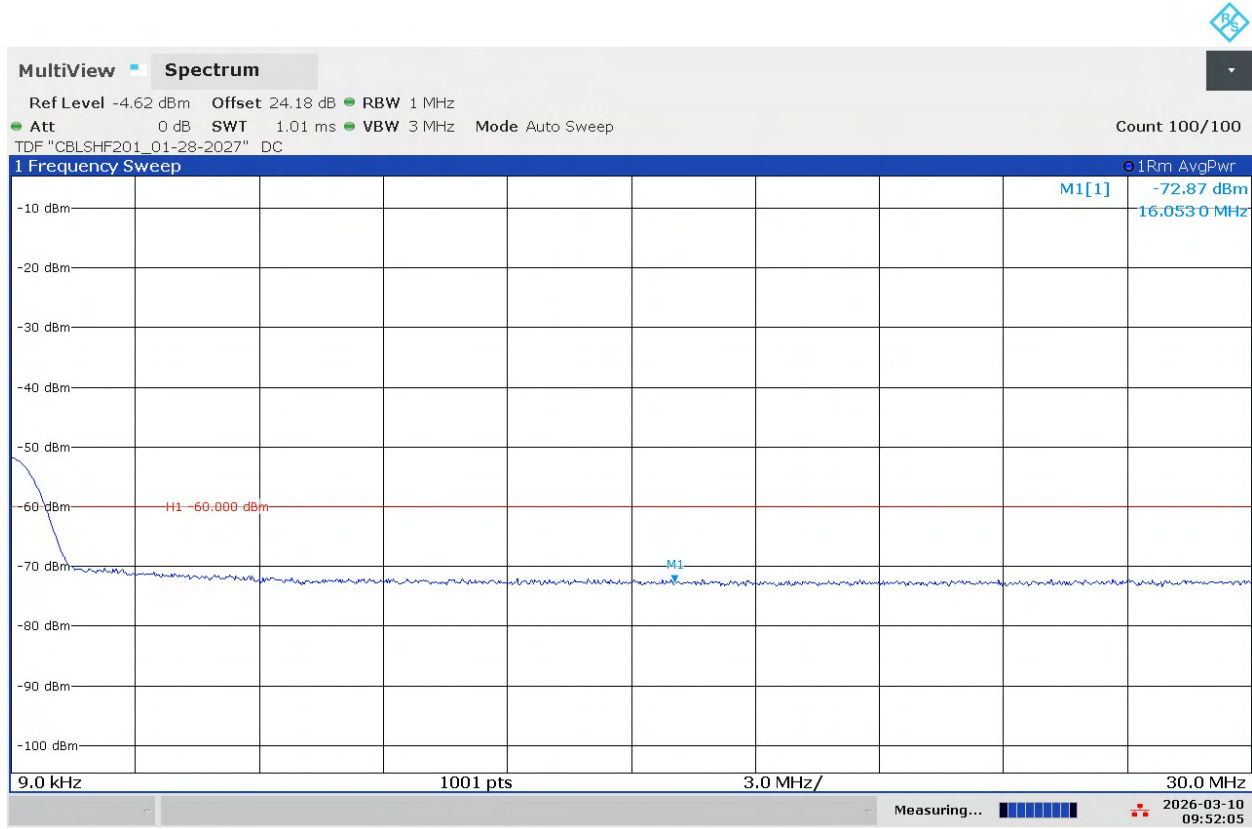
9.5 Setup Photographs:

Conducted Emissions Setup



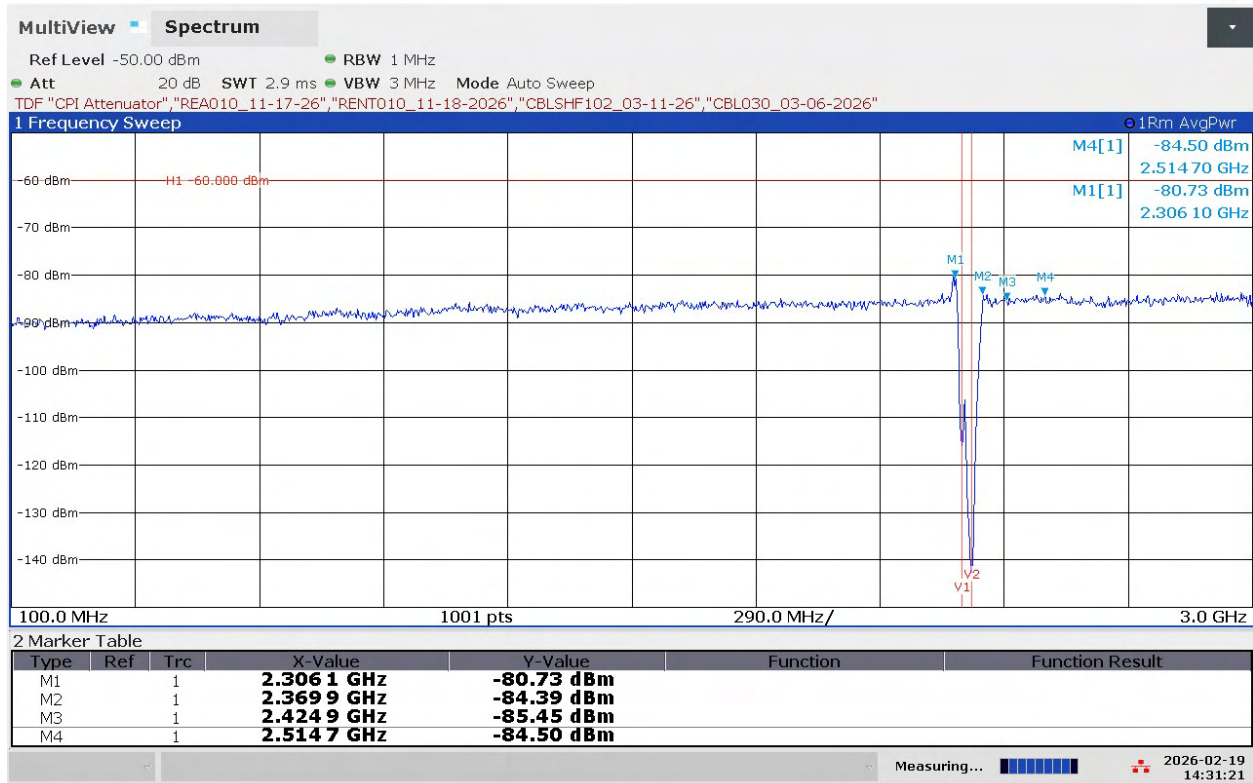
9.6 Plots/Data:

Radio Transmits Low Band Conducted Emissions From 9 kHz-30 MHz



Note: All factors were compensated internally as Transducer Factor (TDF)

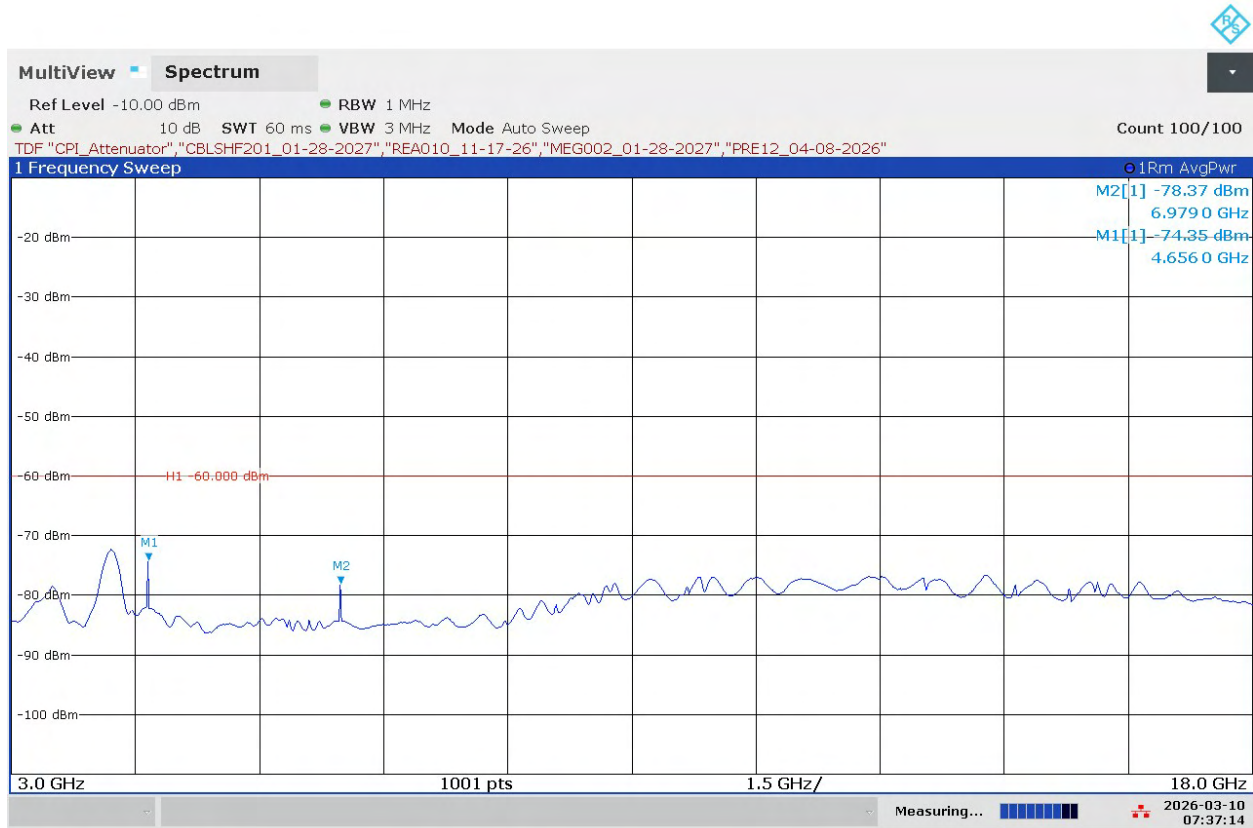
Radio Transmits Low Band Conducted Emissions From 100 MHz-3 GHz



02:31:22 PM 02/19/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

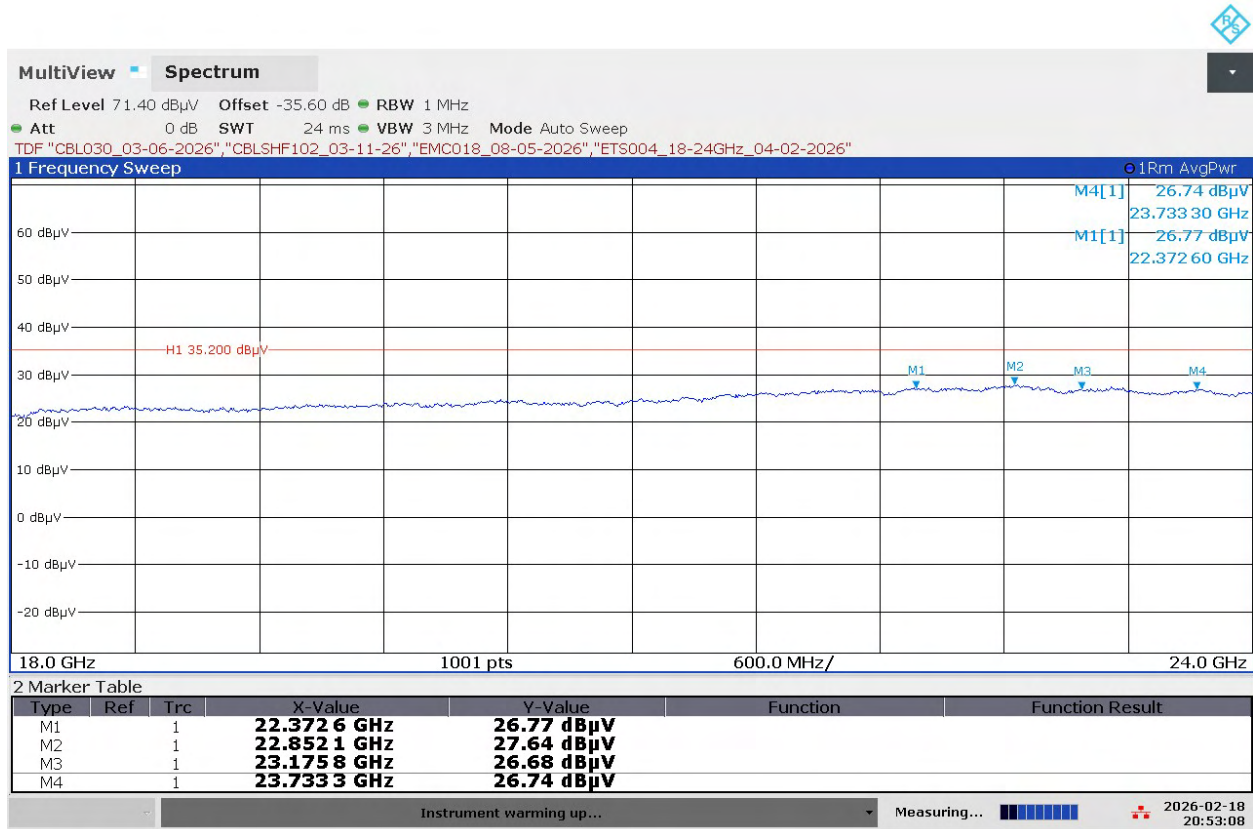
Radio Transmits Low Band Conducted Emissions From 3-18 GHz



07:37:15 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

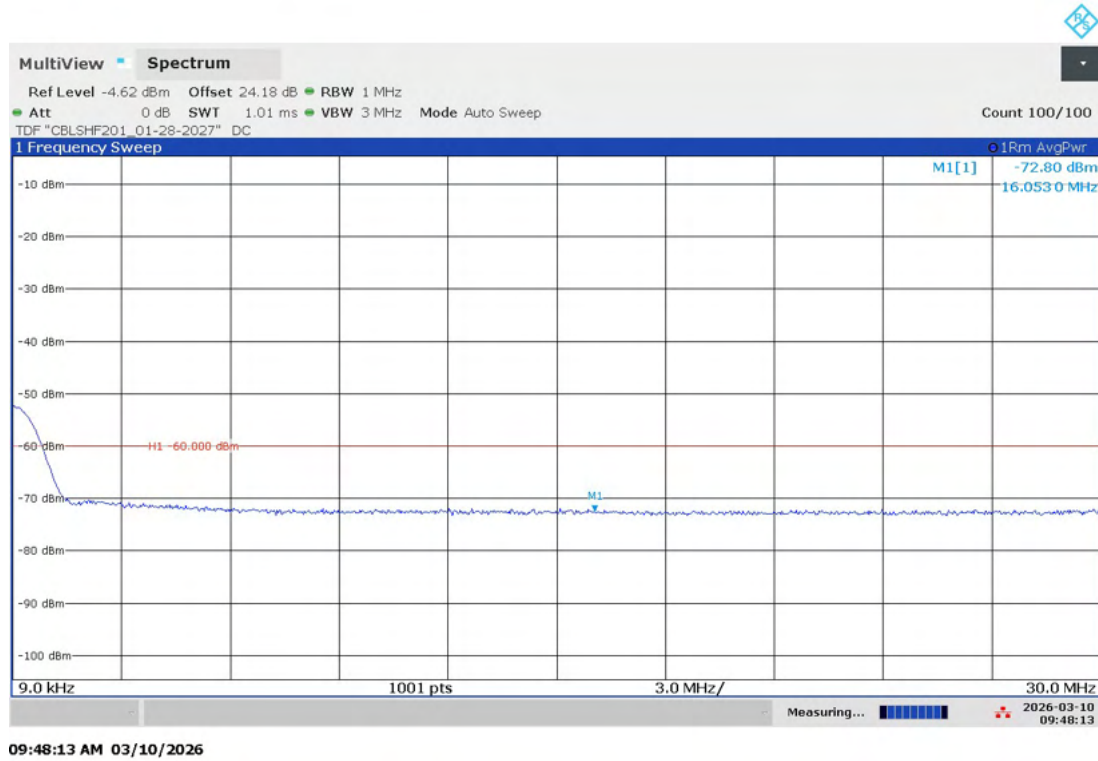
Radio Transmits Low Band Conducted Emissions From 18-24 GHz



08:53:08 PM 02/18/2026

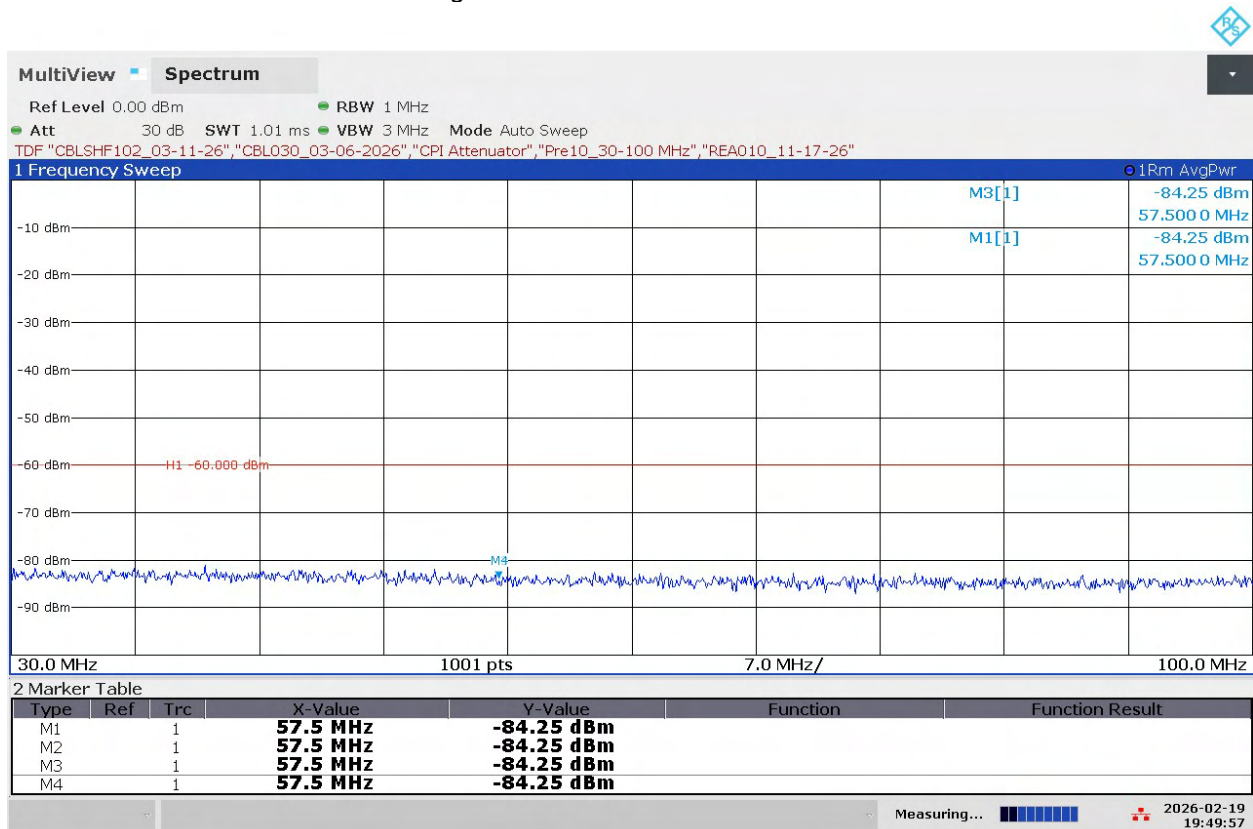
Note: All factors were compensated internally as Transducer Factor (TDF)

Radio Transmits High Band Conducted Emissions From 9 kHz-30 MHz



Note: All factors were compensated internally as Transducer Factor (TDF)

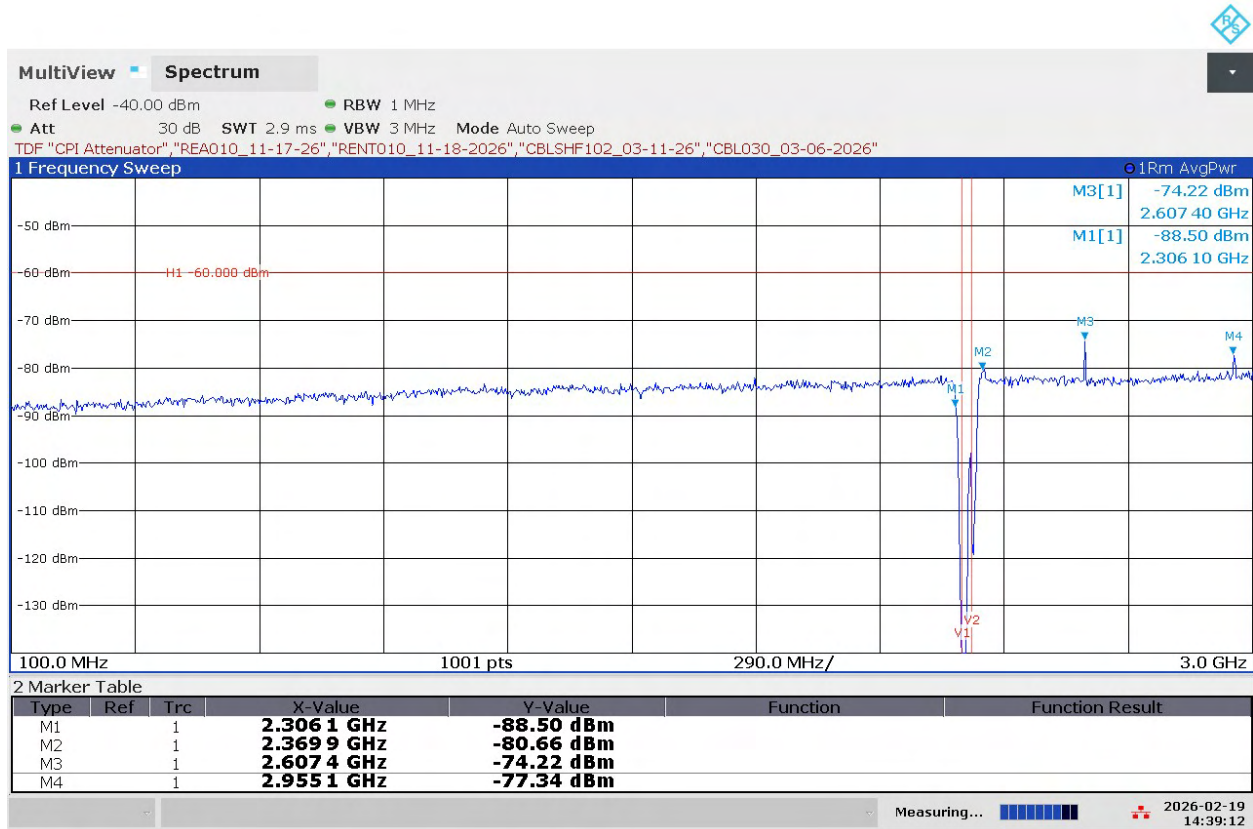
Radio Transmits High Band Conducted Emissions From 30-100 MHz



07:49:58 PM 02/19/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

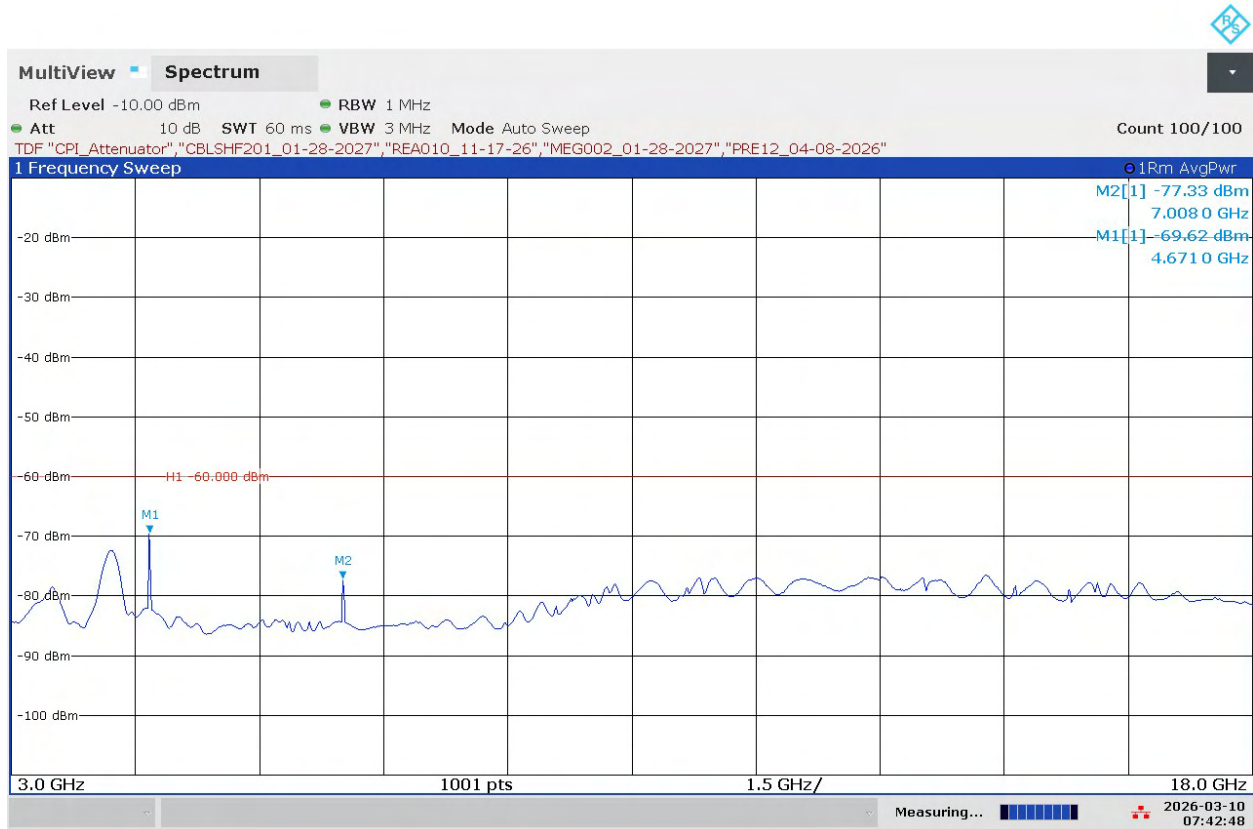
Radio Transmits High Band Conducted Emissions From 100 MHz-3 GHz



02:39:12 PM 02/19/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

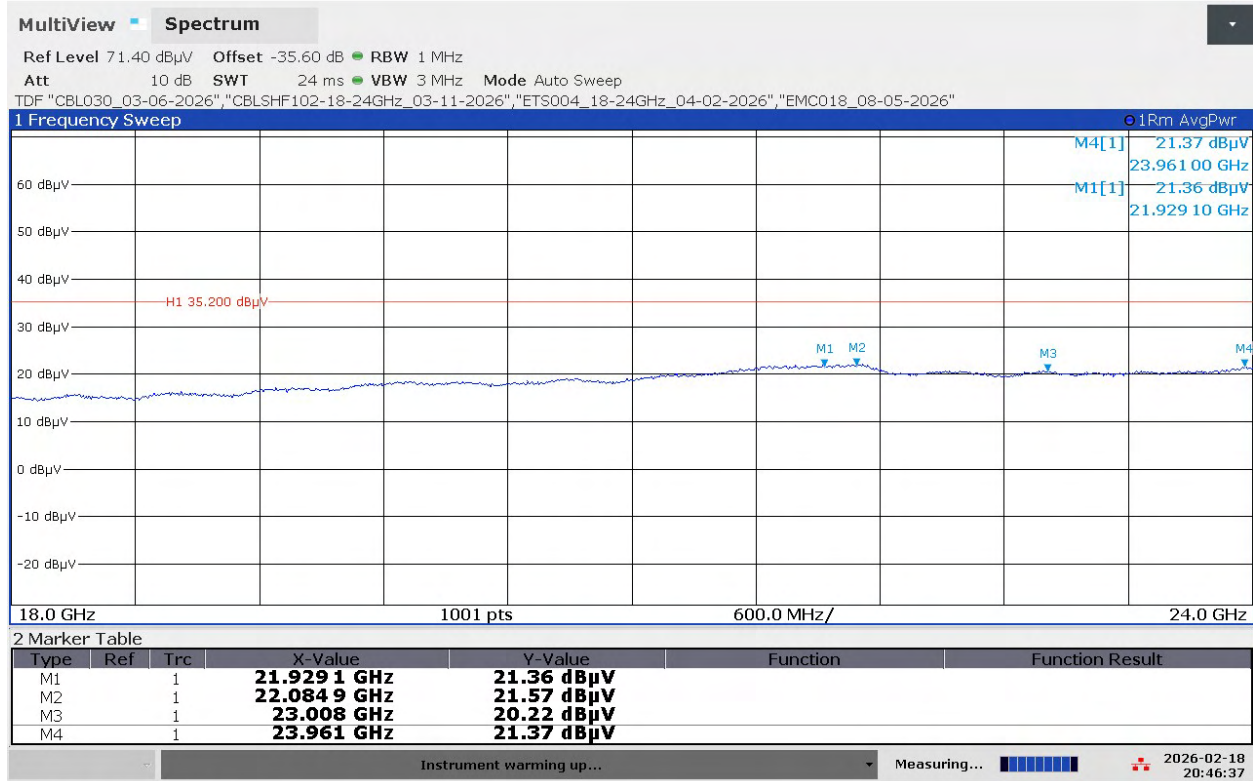
Radio Transmits High Band Conducted Emissions From 3-18 GHz



07:42:48 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

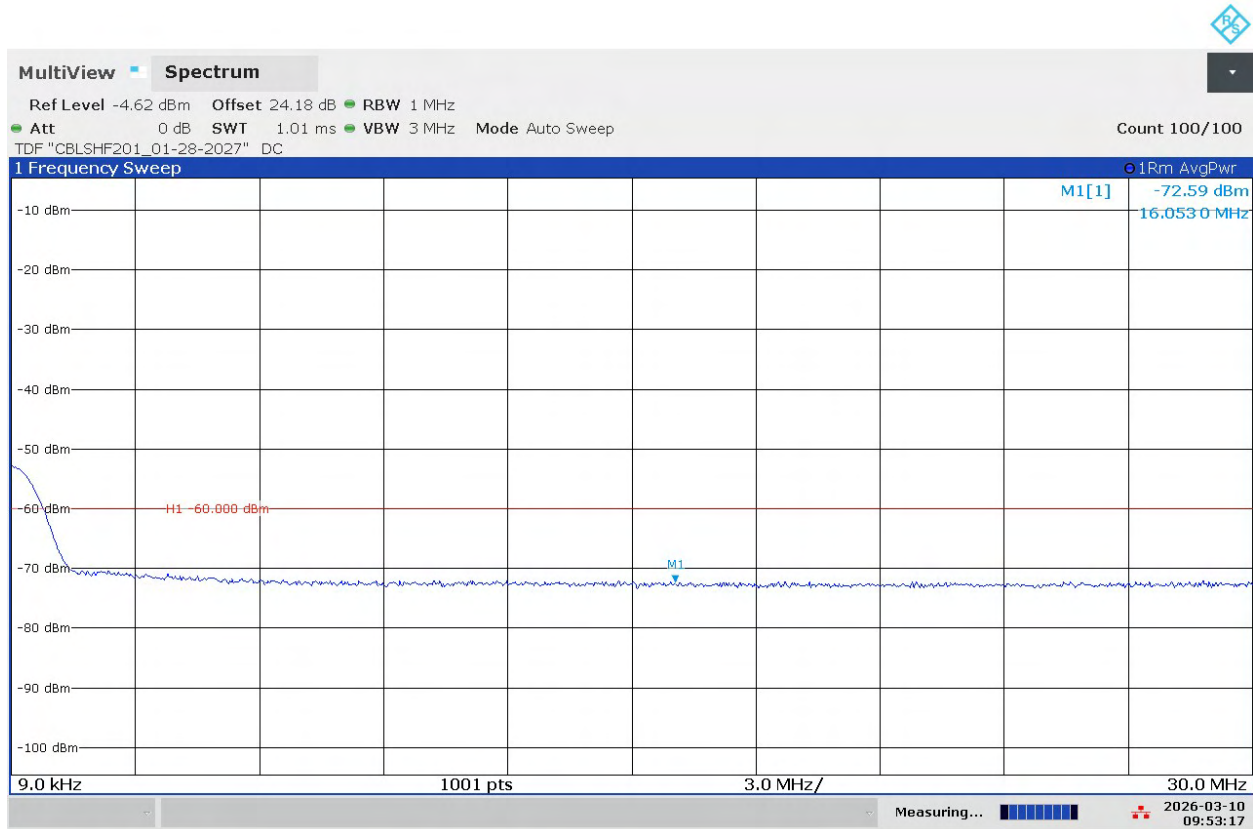
Radio Transmits High Band Conducted Emissions From 18-24 GHz



08:46:37 PM 02/18/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

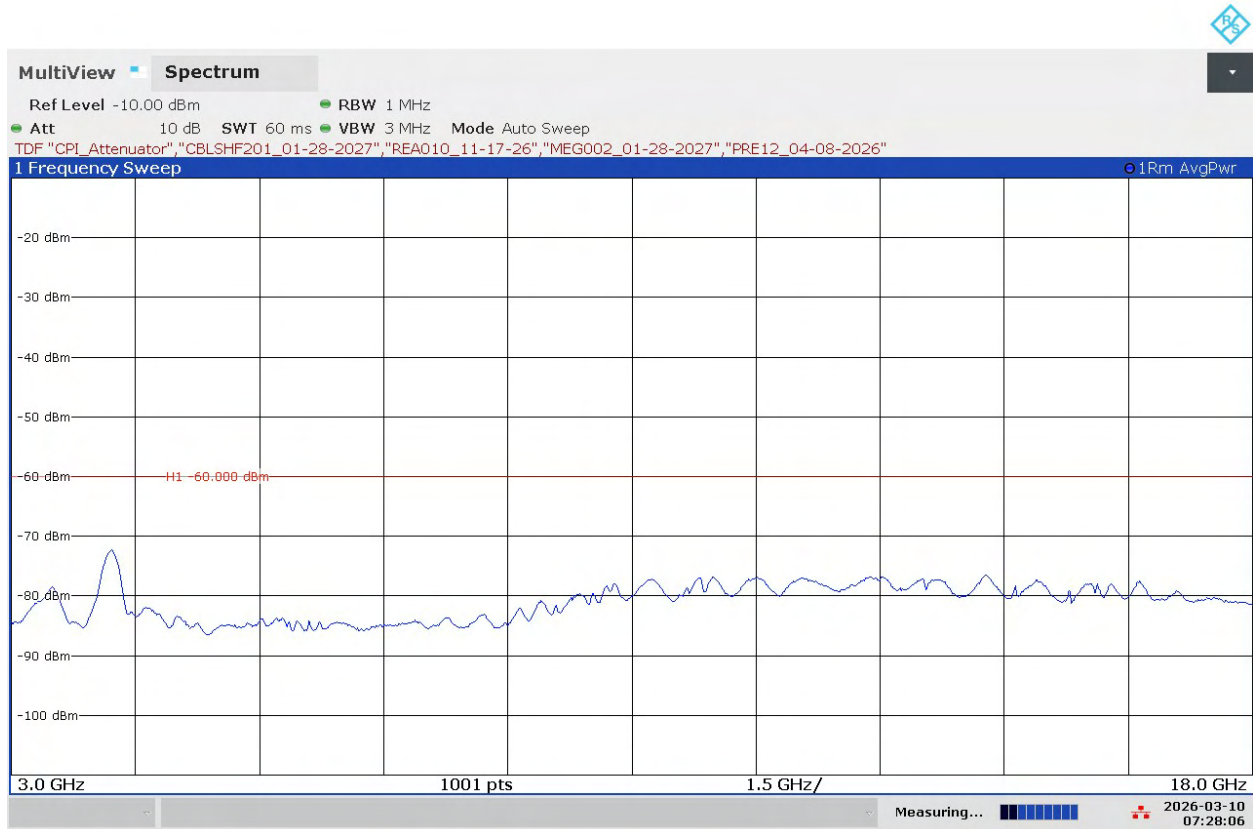
Radio in Standby Conducted Emissions From 9 kHz-30 MHz



09:53:17 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

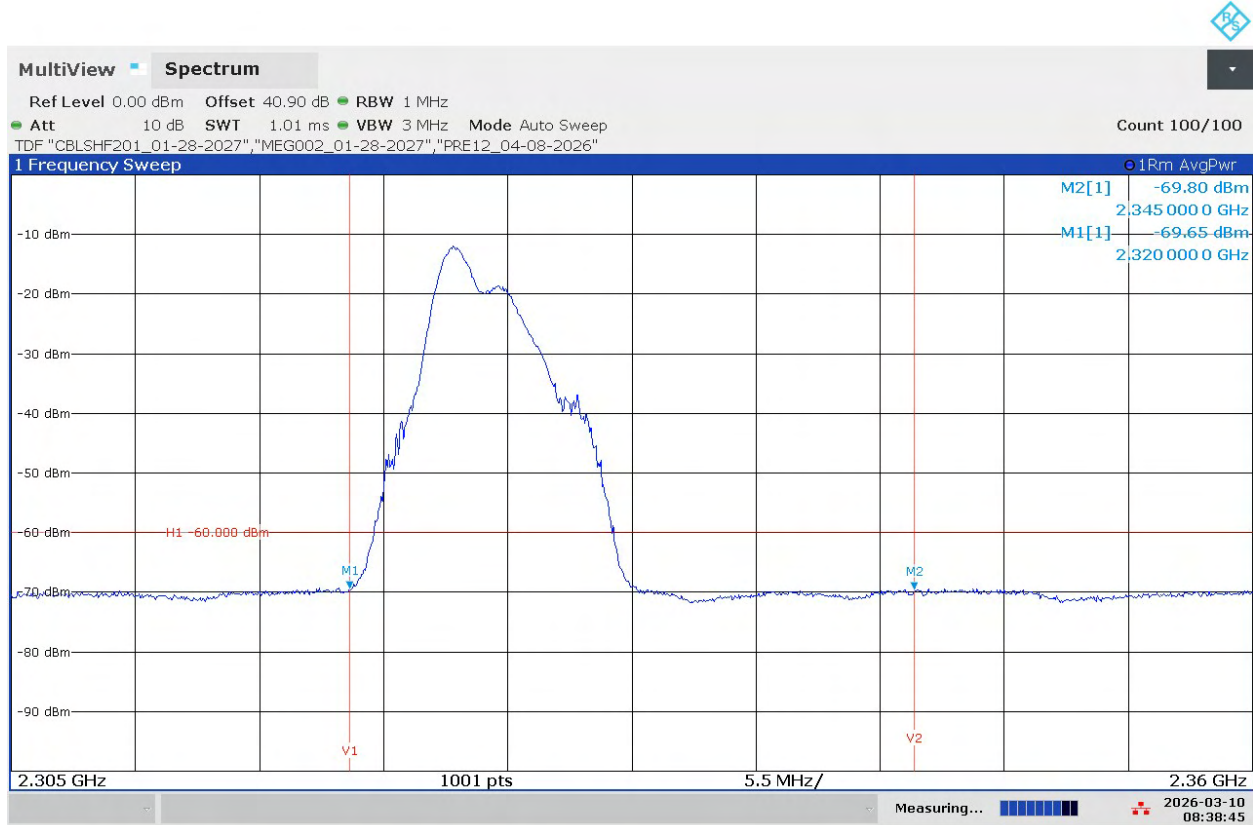
Radio in Standby Conducted Emissions From 3-18 GHz



07:28:06 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

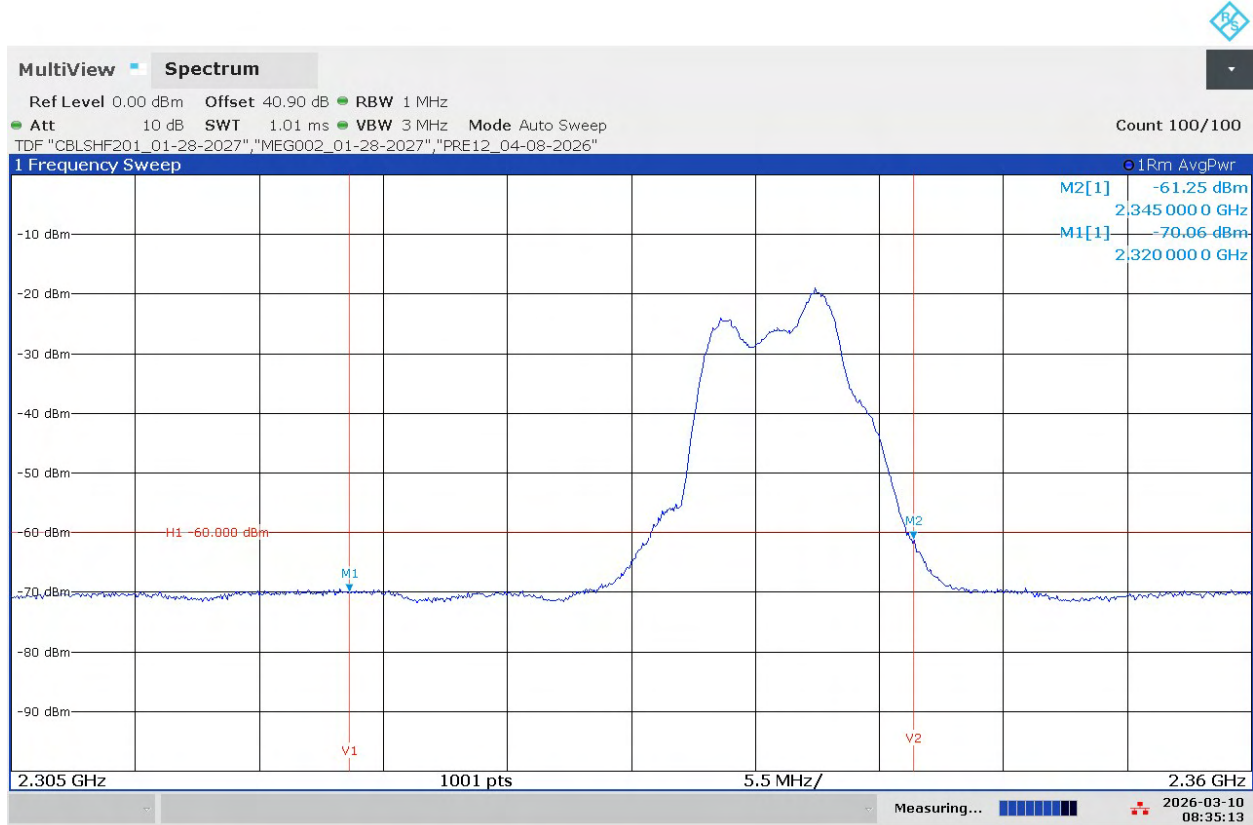
Radio Tx, Antenna Port Conducted Emissions
Lower Edge from 2.305-2.360 GHz Using PIVOTONE Filter



08:38:45 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

Radio Tx, Antenna Port Conducted Emissions
Upper Edge From 2.305-2.360 GHz Using PIVOTONE Filter



08:35:13 AM 03/10/2026

Note: All factors were compensated internally as Transducer Factor (TDF)

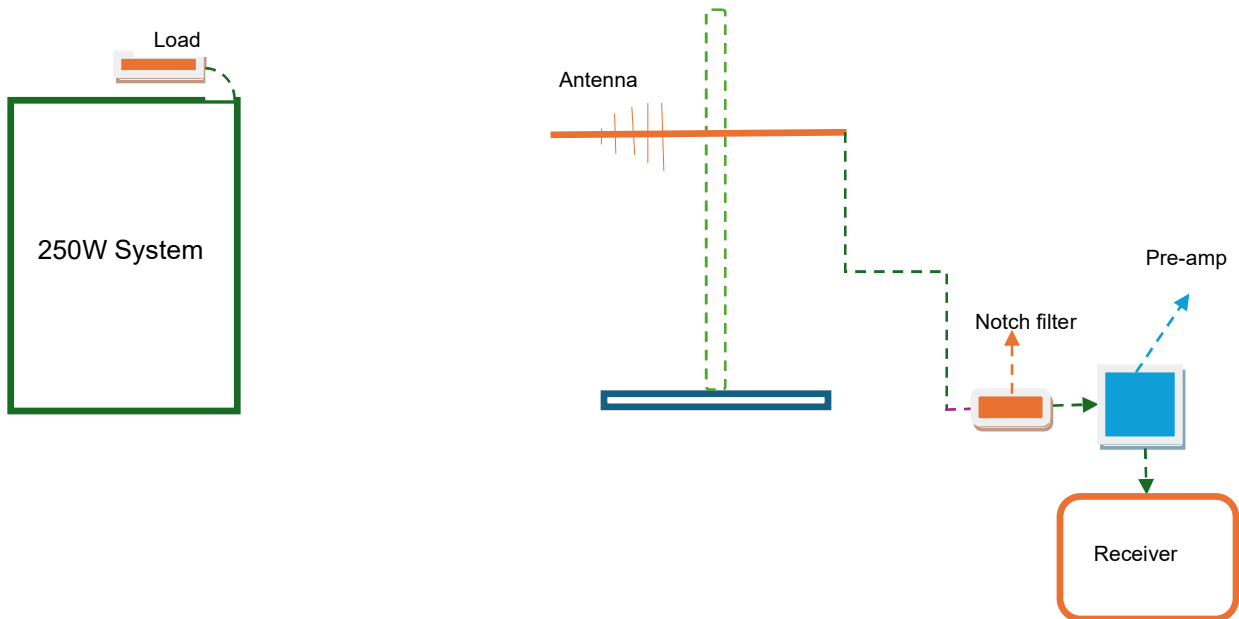
Product Standard: FCC Part 25					Limit applied: See section 9.2 Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
02/18/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208 VAC~3PH	Transmit Standby	23	25	997
02/19/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208 VAC~3PH	Transmit Standby	23	54	1012
03/10/2026	Kouma Sinn <i>KPS</i>	Vathana Ven <i>VSV</i>	208 VAC~3PH	Transmit Standby	25	26	1005

Deviations, Additions, or Exclusions: None

10 Transmitter Radiated Spurious Emissions

10.1 Method

Tests are performed in accordance with ANSI C63.26.



The 250W System was tested in a 10M chamber. The EUT, antenna, notch filter, and pre-amp were located inside the chamber and the receiver was placed outside in the control room.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisprr
Radiated Emissions, 10m	30-1000 MHz	5.6 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.4 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.1 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.8 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.1 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where
 FS = Field Strength in dB μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ V
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

$$NF = \text{Net Reading in dB}\mu\text{V}$$

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

10.2 Limit:

§25.202(h)(1) Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than $90 + 10 \log(P)$ dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts.

10.3 Test Equipment Used:

Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

Test equipment used from 9 kHz-30 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/14/2025	07/14/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	03/06/2025	03/06/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
145019'	Active Loop Antenna (9 KHz to 30 MHz)	EMCO	6502/1	9902-3267	03/10/2025	03/10/2026
CBLBNC62	RG223U 25ft long	Pomona	RG223U	CBLBNC62	07/10/2025	07/10/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	10/29/2025	10/29/2026
HS006'	2m Long	Huber suhner	SF118A	505110/118A	10/09/2025	10/09/2026
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	05/28/2025	05/28/2026
145-406'	10m Track A In-floor Cable #1	Huber + Suhner	sucoflex 160-19220mm	001	06/26/2025	06/26/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	03/03/2025	03/03/2026
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	09/18/2025	09/18/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

Test equipment used from 1-3 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/14/2025	07/14/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	03/06/2025	03/06/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/18/2025	09/18/2026
RENT010'	100MHz to 18GHz pre-amplifier 48dB gain	EMC Shop	PA18G-HA	001366	11/18/2025	11/18/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 3-18 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009'	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/01/2025	04/01/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/14/2025	07/14/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	03/06/2025	03/06/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/18/2025	09/18/2026
RENT010'	100MHz to 18GHz pre-amplifier 48dB gain	EMC Shop	PA18G-HA	001366	11/18/2025	11/18/2026
REA004'	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	03/06/2025	03/06/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 18-24 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	10/29/2025	10/29/2026
CBLHF2012-5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	03/06/2025	03/06/2026
CBLHF2012-2M-1'	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	03/06/2025	03/06/2026
EMC018'	18-40GHz Pre-amp 40dB gain	The EMC Shop	PA40G	27490-01	08/05/2025	08/05/2026
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	03/10/2025	03/10/2026
REA006'	18GHz High Pass Filter	Reactel, Inc	7HS-18G/40G K11	(06)1	04/09/2025	04/09/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Software Utilized:

Name	Manufacturer	Version
	None	

10.4 Results:

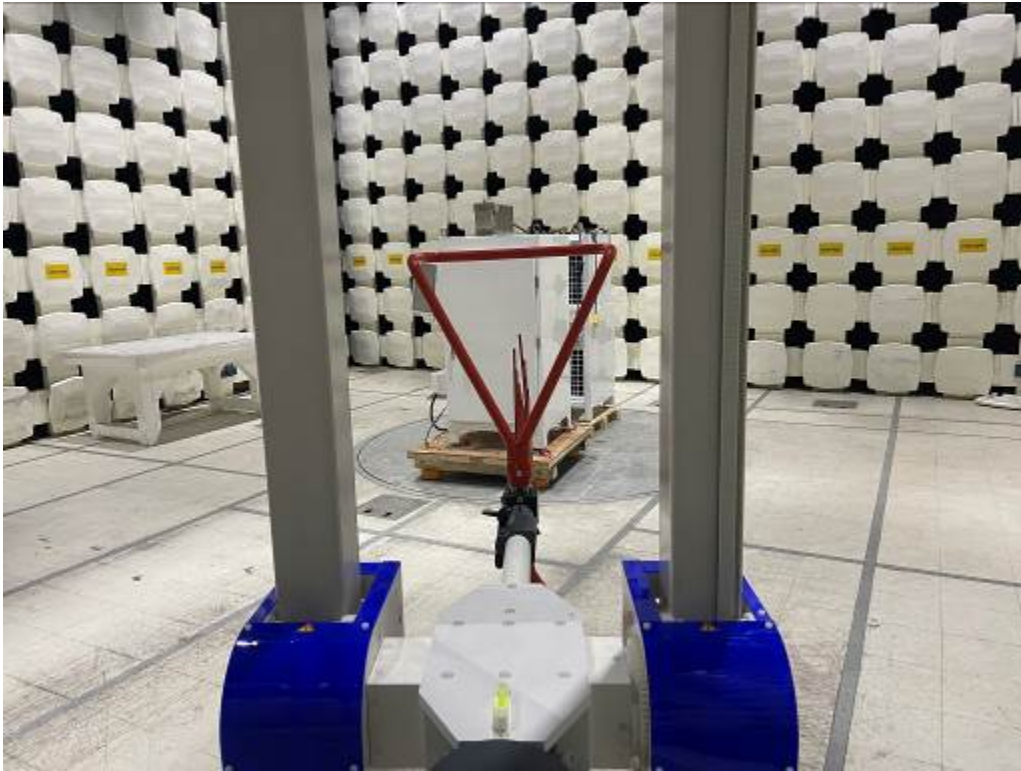
The sample tested was found to Comply.

10.5 Setup Photographs:

9kHz – 30 MHz

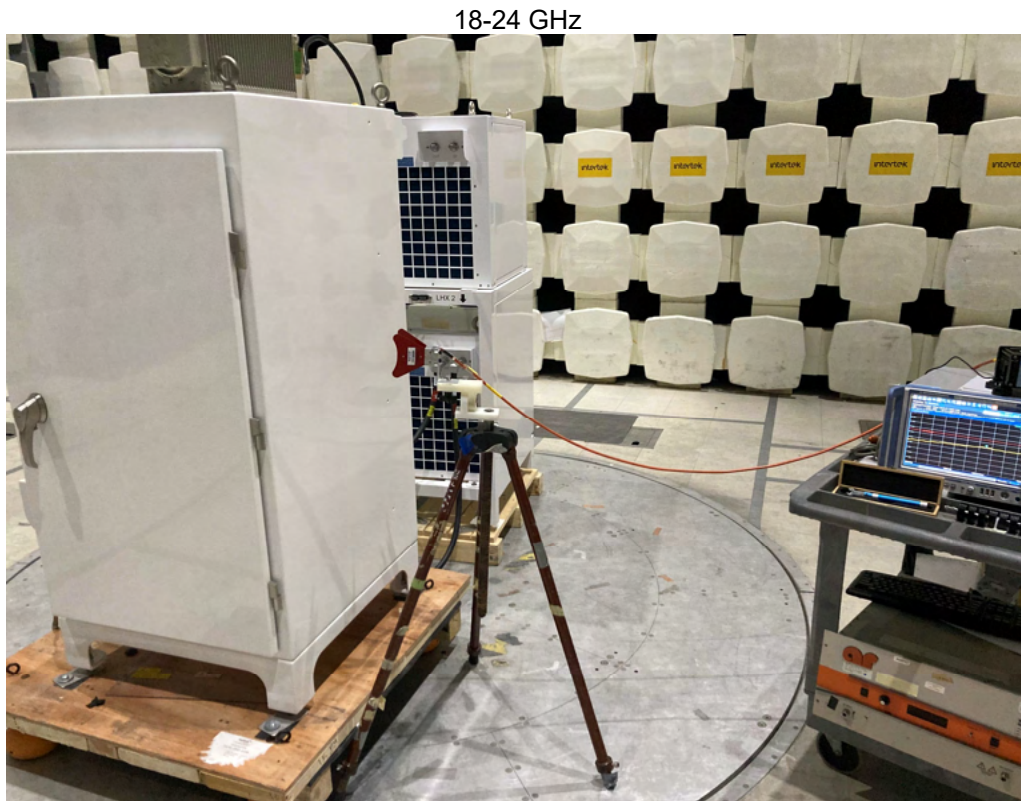


30 – 1000 MHz



1 – 18 GHz





Notes: Testing was performed manually at 5 cm around the EUT.

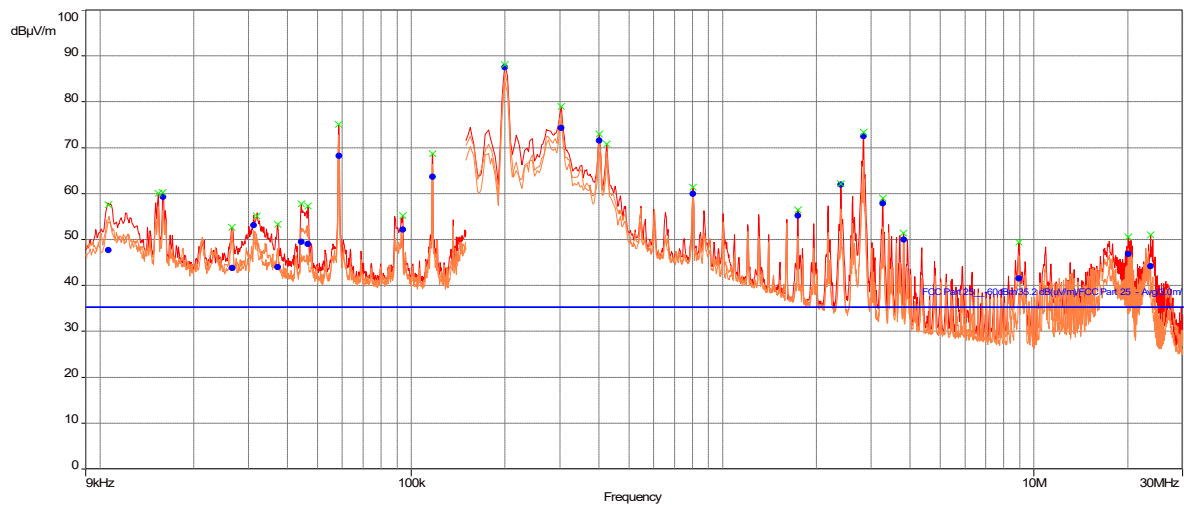
10.6 Plots/Data:

Standby, 9 kHz-30 MHz

Test Information:

Date and Time	2/20/2026 9:35:54 PM
Client and Project Number	CPI G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	25 %
Atmospheric Pressure	997 mbars
Comments	Scan#39_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location_Standby mode 250W Unit

Graph:



Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

Results:

RMS (PASS) (22)

Frequency (MHz)	Level (dBμV/m)	RBW Factors (dB)	Distance factors (dB)	Net Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time (s)	Correction (dB)
0.010655	47.73	37.00	-59.00	25.73	35.20	-9.47	165.80	Horizontal	200	1.00	22.25
0.0159449	59.29	37.00	-59.00	37.29	35.20	2.09	348.00	Horizontal	200	1.00	20.10
0.0266197	43.84	37.00	-59.00	21.84	35.20	-13.36	154.80	Horizontal	200	1.00	17.54
0.031152	53.16	37.00	-59.00	31.16	35.20	-4.04	347.90	Horizontal	200	1.00	17.15
0.037185	44.00	37.00	-59.00	22	35.20	-13.2	154.50	Horizontal	200	1.00	16.38
0.0443825	49.58	37.00	-59.00	27.58	35.20	-7.62	98.10	Horizontal	200	1.00	15.53
0.0465726	49.08	37.00	-59.00	27.08	35.20	-8.12	177.30	Horizontal	200	1.00	15.29
0.0585374	68.25	37.00	-59.00	46.25	35.20	11.05	154.60	Horizontal	200	1.00	14.81
0.0939922	52.23	37.00	-59.00	30.23	35.20	-4.97	154.90	Horizontal	200	1.00	14.14
0.1169601	63.69	37.00	-59.00	41.69	35.20	6.49	154.80	Horizontal	200	1.00	13.83
0.20062	87.59	20.46	-59.00	49.05	35.20	13.85	103.00	Horizontal	9k	1.00	13.50
0.30367	74.31	20.46	-59.00	35.77	35.20	0.57	183.20	Horizontal	9k	1.00	13.20
0.40172	71.59	20.46	-59.00	33.05	35.20	-2.15	103.30	Horizontal	9k	1.00	13.11
0.80351	60.01	20.46	-59.00	21.47	35.20	-13.73	107.70	Horizontal	9k	1.00	12.95
1.74412	55.28	20.46	-59.00	16.74	35.20	-18.46	155.90	Horizontal	9k	1.00	12.91
2.39674	61.94	20.46	-59.00	23.4	35.20	-11.8	155.60	Horizontal	9k	1.00	12.72
2.83357	72.50	20.46	-59.00	33.96	35.20	-1.24	155.80	Horizontal	9k	1.00	12.61
3.26884	57.90	20.46	-59.00	19.36	35.20	-15.84	155.80	Horizontal	9k	1.00	12.55
3.81659	50.04	20.46	-59.00	11.5	35.20	-23.7	102.50	Horizontal	9k	1.00	12.53
8.93536	41.55	20.46	-59.00	3.01	35.20	-32.19	166.40	Horizontal	9k	1.00	12.06
20.08588	46.87	20.46	-59.00	8.33	35.20	-26.87	151.20	Horizontal	9k	1.00	11.15
23.69634	44.19	20.46	-59.00	5.65	35.20	-29.55	156.30	Horizontal	9k	1.00	10.75

Note 1: Testing was performed at 10cm.

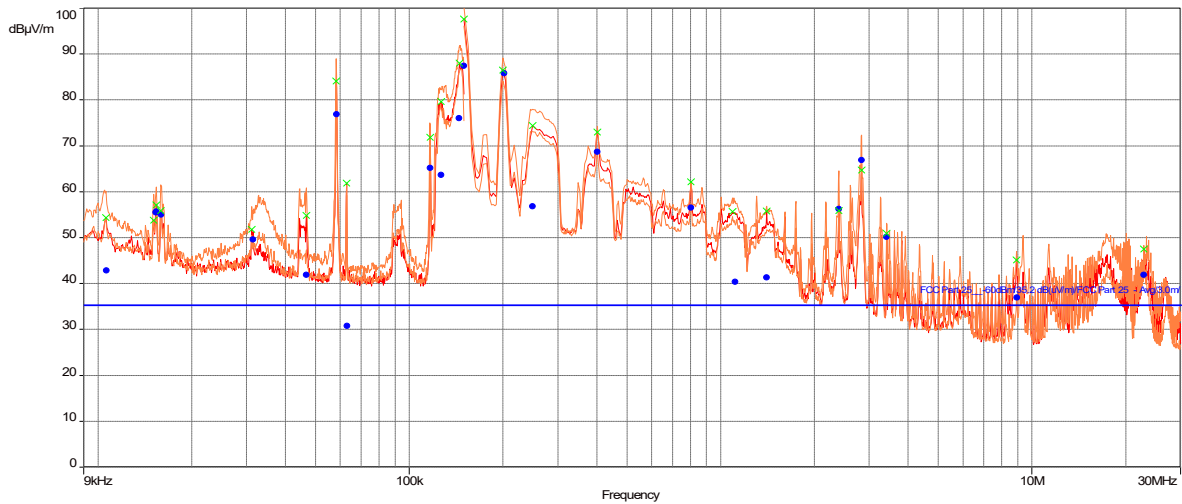
Note 2: The scan was performed with the transmitter turned off.

Tx Low & High bands together, 9 kHz-30 MHz

Test Information:

Date and Time	2/20/2026 8:28:08 PM
Client and Project Number	CPI G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	25 %
Atmospheric Pressure	997 mbars
Comments	Scan#38_RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location_Tx Low & High band_250W Unit

Graph:



Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026
Revised: 04/23/2026

Results:

RMS (PASS) (23)

Frequency (MHz)	Level (dBμV/m)	RBW Factors (dB)	Distance factors (dB)	Net Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time (s)	Correction (dB)
0.0106449	42.92	37.00	-59.00	20.92	35.20	-14.28	143.20	Horizontal	200	1.00	22.25
0.0153551	55.53	37.00	-59.00	33.53	35.20	-1.67	7.30	Horizontal	200	1.00	20.37
0.0153793	55.72	37.00	-59.00	33.72	35.20	-1.48	7.30	Horizontal	200	1.00	20.36
0.0159524	55.04	37.00	-59.00	33.04	35.20	-2.16	0.00	Horizontal	200	1.00	20.09
0.0314768	49.66	37.00	-59.00	27.66	35.20	-7.54	0.00	Horizontal	200	1.00	17.11
0.0467074	41.97	37.00	-59.00	19.97	35.20	-15.23	165.70	Horizontal	200	1.00	15.28
0.0583673	76.91	37.00	-59.00	54.91	35.20	19.71	177.50	Horizontal	200	1.00	14.82
0.0631719	30.79	37.00	-59.00	8.79	35.20	-26.41	188.80	Horizontal	200	1.00	14.71
0.1167249	65.19	37.00	-59.00	43.19	35.20	7.99	166.30	Horizontal	200	1.00	13.84
0.1267316	63.66	37.00	-59.00	41.66	35.20	6.46	177.40	Horizontal	200	1.00	13.80
0.144723	76.05	37.00	-59.00	54.05	35.20	18.85	165.50	Horizontal	200	1.00	13.73
0.15039	87.42	20.46	-59.00	48.88	35.20	13.68	167.30	Horizontal	9k	1.00	13.70
0.20074	85.84	20.46	-59.00	47.3	35.20	12.1	145.90	Horizontal	9k	1.00	13.50
0.24877	56.84	20.46	-59.00	18.3	35.20	-16.9	178.30	Horizontal	9k	1.00	13.36
0.40167	68.71	20.46	-59.00	30.17	35.20	-5.03	161.40	Horizontal	9k	1.00	13.11
0.80138	56.55	20.46	-59.00	18.01	35.20	-17.19	162.50	Horizontal	9k	1.00	12.95
1.11204	40.41	20.46	-59.00	1.87	35.20	-33.33	162.10	Horizontal	9k	1.00	13.14
1.40842	41.39	20.46	-59.00	2.85	35.20	-32.35	167.30	Horizontal	9k	1.00	13.03
2.39718	56.31	20.46	-59.00	17.77	35.20	-17.43	167.00	Horizontal	9k	1.00	12.72
2.83346	66.95	20.46	-59.00	28.41	35.20	-6.79	167.20	Horizontal	9k	1.00	12.61
3.4143	50.22	20.46	-59.00	11.68	35.20	-23.52	151.20	Horizontal	9k	1.00	12.55
8.93848	36.94	20.46	-59.00	-1.6	35.20	-36.8	140.80	Horizontal	9k	1.00	12.06
22.89537	41.94	20.46	-59.00	3.4	35.20	-31.8	166.80	Horizontal	9k	1.00	10.81

Note 1: Testing was performed at 10cm.

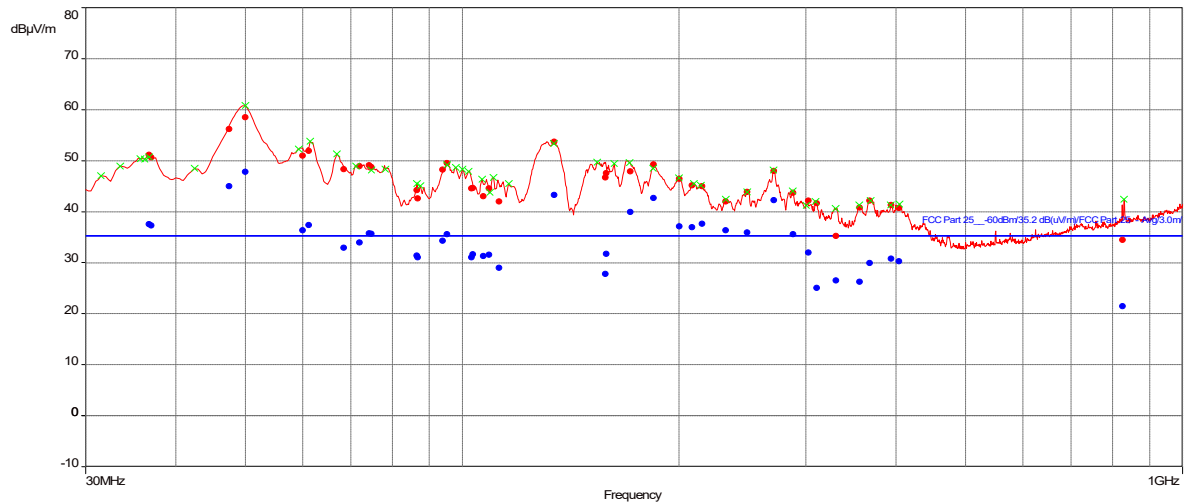
Note 2: The system was scanned with the transmitter turned on and off to determine if the emissions were related to the intentional radiator. It was determined that all emissions were from the host.

Standby, 30-1000 MHz

Test Information:

Date and Time	3/11/2026 12:24:40 PM
Client and Project Number	CPI
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	28 %
Atmospheric Pressure	1008 mbars
Comments	Scan # 6_Current configuration, Standby, No ferrites, 1 MHz RBW_250W Unit, 3m Position, RE 30-1000 MHz

Graph:



Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

Results:

Peak(39)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
36.85	51.18	No limit	6.70	1.00	Vertical	1M	1.00	-17.30
36.923	50.63	No limit	22.50	1.00	Vertical	1M	1.00	-17.35
47.45	56.18	No limit	6.50	1.00	Vertical	1M	1.00	-24.41
50.1	58.55	No limit	344.20	4.00	Vertical	1M	1.00	-25.47
59.924	50.97	No limit	360.00	4.00	Vertical	1M	1.00	-25.76
61.275	51.94	No limit	258.40	4.00	Horizontal	1M	1.00	-25.62
68.434	48.36	No limit	70.90	4.00	Horizontal	1M	1.00	-25.08
71.96	48.97	No limit	263.10	4.00	Horizontal	1M	1.00	-25.04
74.351	49.09	No limit	354.70	1.45	Vertical	1M	1.00	-25.06
74.671	48.76	No limit	349.60	1.63	Vertical	1M	1.00	-25.09
86.577	44.22	No limit	326.80	1.57	Vertical	1M	1.00	-25.73
86.687	42.60	No limit	360.00	1.69	Vertical	1M	1.00	-25.73
94.09	48.24	No limit	338.20	1.00	Vertical	1M	1.00	-24.34
95.199	49.57	No limit	0.00	1.00	Vertical	1M	1.00	-24.00
102.985	44.56	No limit	349.60	1.00	Vertical	1M	1.00	-21.70
103.433	44.63	No limit	343.40	1.00	Vertical	1M	1.00	-21.56
106.993	43.07	No limit	354.00	1.00	Vertical	1M	1.00	-20.77
109.091	44.60	No limit	0.00	1.00	Vertical	1M	1.00	-20.34
112.434	42.03	No limit	360.00	1.00	Vertical	1M	1.00	-19.79
134.361	53.71	No limit	339.00	1.03	Vertical	1M	1.00	-19.21
157.89	46.74	No limit	342.90	4.00	Horizontal	1M	1.00	-20.22
158.585	47.61	No limit	273.90	4.00	Horizontal	1M	1.00	-20.27
171.236	47.90	No limit	263.50	4.00	Horizontal	1M	1.00	-20.76
184.275	49.28	No limit	70.60	1.09	Horizontal	1M	1.00	-21.25
200.287	46.46	No limit	11.90	1.09	Horizontal	1M	1.00	-19.85
208.416	45.21	No limit	6.70	1.09	Horizontal	1M	1.00	-21.90
215.173	44.99	No limit	343.50	1.03	Vertical	1M	1.00	-21.77
232.188	41.98	No limit	43.90	1.00	Vertical	1M	1.00	-21.06
248.389	43.89	No limit	279.20	1.00	Vertical	1M	1.00	-20.59
270.712	47.99	No limit	242.40	1.00	Vertical	1M	1.00	-18.89
288.049	43.71	No limit	237.40	1.00	Vertical	1M	1.00	-18.71
302.17	42.17	No limit	248.10	1.00	Vertical	1M	1.00	-18.55
310.386	41.71	No limit	252.30	1.03	Horizontal	1M	1.00	-18.21
330.411	35.29	No limit	129.60	4.00	Horizontal	1M	1.00	-17.92
355.924	40.82	No limit	268.40	1.09	Horizontal	1M	1.00	-17.21
367.691	42.23	No limit	1.30	1.00	Vertical	1M	1.00	-16.87
393.774	41.32	No limit	82.30	1.00	Vertical	1M	1.00	-16.36
404.126	40.75	No limit	77.20	1.03	Vertical	1M	1.00	-15.92
825.797	34.51	No limit	23.10	3.27	Vertical	1M	1.00	-7.75

Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

RMS (39)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Tim (s)	Correction (dB)
36.85	37.59	35.2	2.39	6.70	1.00	Vertical	1M	1.00	-17.30
36.923	37.36	35.2	2.16	22.50	1.00	Vertical	1M	1.00	-17.35
47.45	45.05	35.2	9.85	6.50	1.00	Vertical	1M	1.00	-24.41
50.1	47.85	35.2	12.65	344.20	4.00	Vertical	1M	1.00	-25.47
59.924	36.38	35.2	1.18	360.00	4.00	Vertical	1M	1.00	-25.76
61.275	37.42	35.2	2.22	258.40	4.00	Horizontal	1M	1.00	-25.62
68.434	32.94	35.2	-2.26	70.90	4.00	Horizontal	1M	1.00	-25.08
71.96	33.99	35.2	-1.21	263.10	4.00	Horizontal	1M	1.00	-25.04
74.351	35.75	35.2	0.55	354.70	1.45	Vertical	1M	1.00	-25.06
74.671	35.72	35.2	0.52	349.60	1.63	Vertical	1M	1.00	-25.09
86.577	31.43	35.2	-3.77	326.80	1.57	Vertical	1M	1.00	-25.73
86.687	31.11	35.2	-4.09	360.00	1.69	Vertical	1M	1.00	-25.73
94.09	34.34	35.2	-0.86	338.20	1.00	Vertical	1M	1.00	-24.34
95.199	35.63	35.2	0.43	0.00	1.00	Vertical	1M	1.00	-24.00
102.985	31.07	35.2	-4.13	349.60	1.00	Vertical	1M	1.00	-21.70
103.433	31.64	35.2	-3.56	343.40	1.00	Vertical	1M	1.00	-21.56
106.993	31.33	35.2	-3.87	354.00	1.00	Vertical	1M	1.00	-20.77
109.091	31.62	35.2	-3.58	0.00	1.00	Vertical	1M	1.00	-20.34
112.434	29.00	35.2	-6.2	360.00	1.00	Vertical	1M	1.00	-19.79
134.361	43.28	35.2	8.08	339.00	1.03	Vertical	1M	1.00	-19.21
157.89	27.86	35.2	-7.34	342.90	4.00	Horizontal	1M	1.00	-20.22
158.585	31.72	35.2	-3.48	273.90	4.00	Horizontal	1M	1.00	-20.27
171.236	39.97	35.2	4.77	263.50	4.00	Horizontal	1M	1.00	-20.76
184.275	42.67	35.2	7.47	70.60	1.09	Horizontal	1M	1.00	-21.25
200.287	37.15	35.2	1.95	11.90	1.09	Horizontal	1M	1.00	-19.85
208.416	37.01	35.2	1.81	6.70	1.09	Horizontal	1M	1.00	-21.90
215.173	37.70	35.2	2.5	343.50	1.03	Vertical	1M	1.00	-21.77
232.188	36.34	35.2	1.14	43.90	1.00	Vertical	1M	1.00	-21.06
248.389	35.91	35.2	0.71	279.20	1.00	Vertical	1M	1.00	-20.59
270.712	42.26	35.2	7.06	242.40	1.00	Vertical	1M	1.00	-18.89
288.049	35.62	35.2	0.42	237.40	1.00	Vertical	1M	1.00	-18.71
302.17	32.05	35.2	-3.15	248.10	1.00	Vertical	1M	1.00	-18.55
310.386	25.06	35.2	-10.14	252.30	1.03	Horizontal	1M	1.00	-18.21
330.411	26.52	35.2	-8.68	129.60	4.00	Horizontal	1M	1.00	-17.92
355.924	26.29	35.2	-8.91	268.40	1.09	Horizontal	1M	1.00	-17.21
367.691	29.92	35.2	-5.28	1.30	1.00	Vertical	1M	1.00	-16.87
393.774	30.80	35.2	-4.4	82.30	1.00	Vertical	1M	1.00	-16.36
404.126	30.27	35.2	-4.93	77.20	1.03	Vertical	1M	1.00	-15.92
825.797	21.50	35.2	-13.7	23.10	3.27	Vertical	1M	1.00	-7.75

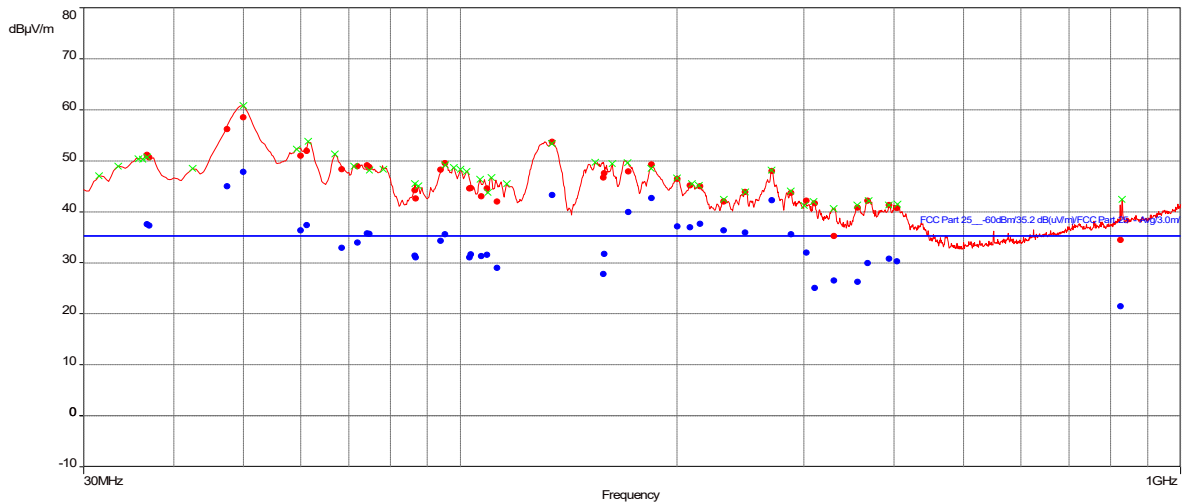
Note: The system was scanned with the transmitter turned on and off to determine if the emissions were related to the intentional radiator. It was determined that all emissions were from the host.

Tx Low & High Bands Together, 30-1000 MHz

Test Information:

Date and Time	3/11/2026 12:24:40 PM
Client and Project Number	CPI
Engineer	Kouma Sinn
Temperature	24 deg C
Humidity	28 %
Atmospheric Pressure	1008 mbars
Comments	Scan # 6 Current configuration, Standby, No ferrites, 1 MHz RBW_250W Unit, 3m Position, RE 30-1000 MHz

Graph:



Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026
Revised: 04/23/2026

Results:

Peak(39)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
36.85	51.18	No limit	6.70	1.00	Vertical	1M	1.00	-17.30
36.923	50.63	No limit	22.50	1.00	Vertical	1M	1.00	-17.35
47.45	56.18	No limit	6.50	1.00	Vertical	1M	1.00	-24.41
50.1	58.55	No limit	344.20	4.00	Vertical	1M	1.00	-25.47
59.924	50.97	No limit	360.00	4.00	Vertical	1M	1.00	-25.76
61.275	51.94	No limit	258.40	4.00	Horizontal	1M	1.00	-25.62
68.434	48.36	No limit	70.90	4.00	Horizontal	1M	1.00	-25.08
71.96	48.97	No limit	263.10	4.00	Horizontal	1M	1.00	-25.04
74.351	49.09	No limit	354.70	1.45	Vertical	1M	1.00	-25.06
74.671	48.76	No limit	349.60	1.63	Vertical	1M	1.00	-25.09
86.577	44.22	No limit	326.80	1.57	Vertical	1M	1.00	-25.73
86.687	42.60	No limit	360.00	1.69	Vertical	1M	1.00	-25.73
94.09	48.24	No limit	338.20	1.00	Vertical	1M	1.00	-24.34
95.199	49.57	No limit	0.00	1.00	Vertical	1M	1.00	-24.00
102.985	44.56	No limit	349.60	1.00	Vertical	1M	1.00	-21.70
103.433	44.63	No limit	343.40	1.00	Vertical	1M	1.00	-21.56
106.993	43.07	No limit	354.00	1.00	Vertical	1M	1.00	-20.77
109.091	44.60	No limit	0.00	1.00	Vertical	1M	1.00	-20.34
112.434	42.03	No limit	360.00	1.00	Vertical	1M	1.00	-19.79
134.361	53.71	No limit	339.00	1.03	Vertical	1M	1.00	-19.21
157.89	46.74	No limit	342.90	4.00	Horizontal	1M	1.00	-20.22
158.585	47.61	No limit	273.90	4.00	Horizontal	1M	1.00	-20.27
171.236	47.90	No limit	263.50	4.00	Horizontal	1M	1.00	-20.76
184.275	49.28	No limit	70.60	1.09	Horizontal	1M	1.00	-21.25
200.287	46.46	No limit	11.90	1.09	Horizontal	1M	1.00	-19.85
208.416	45.21	No limit	6.70	1.09	Horizontal	1M	1.00	-21.90
215.173	44.99	No limit	343.50	1.03	Vertical	1M	1.00	-21.77
232.188	41.98	No limit	43.90	1.00	Vertical	1M	1.00	-21.06
248.389	43.89	No limit	279.20	1.00	Vertical	1M	1.00	-20.59
270.712	47.99	No limit	242.40	1.00	Vertical	1M	1.00	-18.89
288.049	43.71	No limit	237.40	1.00	Vertical	1M	1.00	-18.71
302.17	42.17	No limit	248.10	1.00	Vertical	1M	1.00	-18.55
310.386	41.71	No limit	252.30	1.03	Horizontal	1M	1.00	-18.21
330.411	35.29	No limit	129.60	4.00	Horizontal	1M	1.00	-17.92
355.924	40.82	No limit	268.40	1.09	Horizontal	1M	1.00	-17.21
367.691	42.23	No limit	1.30	1.00	Vertical	1M	1.00	-16.87
393.774	41.32	No limit	82.30	1.00	Vertical	1M	1.00	-16.36
404.126	40.75	No limit	77.20	1.03	Vertical	1M	1.00	-15.92
825.797	34.51	No limit	23.10	3.27	Vertical	1M	1.00	-7.75

Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

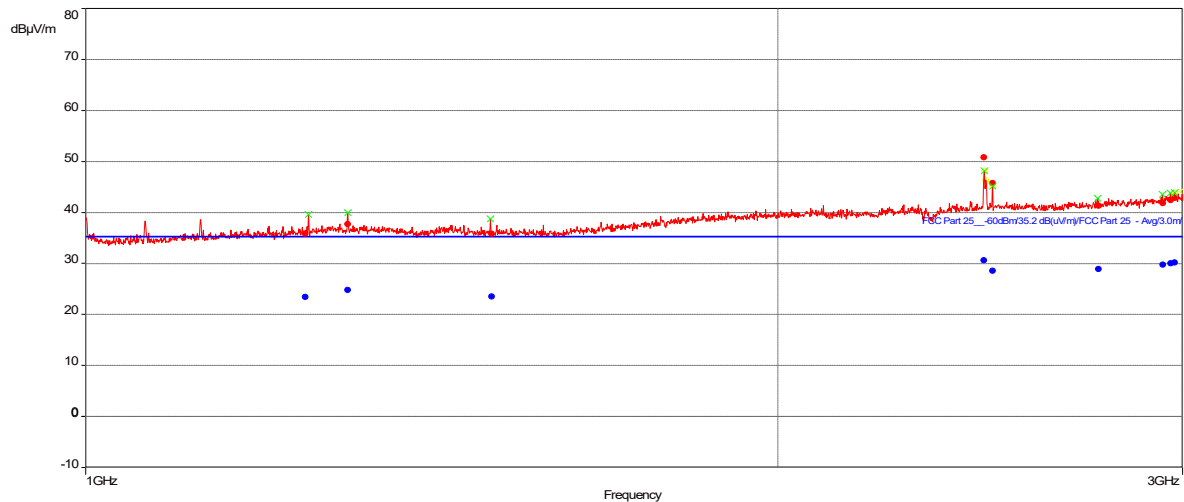
RMS (39)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Tim (s)	Correction (dB)
36.85	37.59	35.2	2.39	6.70	1.00	Vertical	1M	1.00	-17.30
36.923	37.36	35.2	2.16	22.50	1.00	Vertical	1M	1.00	-17.35
47.45	45.05	35.2	9.85	6.50	1.00	Vertical	1M	1.00	-24.41
50.1	47.85	35.2	12.65	344.20	4.00	Vertical	1M	1.00	-25.47
59.924	36.38	35.2	1.18	360.00	4.00	Vertical	1M	1.00	-25.76
61.275	37.42	35.2	2.22	258.40	4.00	Horizontal	1M	1.00	-25.62
68.434	32.94	35.2	-2.26	70.90	4.00	Horizontal	1M	1.00	-25.08
71.96	33.99	35.2	-1.21	263.10	4.00	Horizontal	1M	1.00	-25.04
74.351	35.75	35.2	0.55	354.70	1.45	Vertical	1M	1.00	-25.06
74.671	35.72	35.2	0.52	349.60	1.63	Vertical	1M	1.00	-25.09
86.577	31.43	35.2	-3.77	326.80	1.57	Vertical	1M	1.00	-25.73
86.687	31.11	35.2	-4.09	360.00	1.69	Vertical	1M	1.00	-25.73
94.09	34.34	35.2	-0.86	338.20	1.00	Vertical	1M	1.00	-24.34
95.199	35.63	35.2	0.43	0.00	1.00	Vertical	1M	1.00	-24.00
102.985	31.07	35.2	-4.13	349.60	1.00	Vertical	1M	1.00	-21.70
103.433	31.64	35.2	-3.56	343.40	1.00	Vertical	1M	1.00	-21.56
106.993	31.33	35.2	-3.87	354.00	1.00	Vertical	1M	1.00	-20.77
109.091	31.62	35.2	-3.58	0.00	1.00	Vertical	1M	1.00	-20.34
112.434	29.00	35.2	-6.2	360.00	1.00	Vertical	1M	1.00	-19.79
134.361	43.28	35.2	8.08	339.00	1.03	Vertical	1M	1.00	-19.21
157.89	27.86	35.2	-7.34	342.90	4.00	Horizontal	1M	1.00	-20.22
158.585	31.72	35.2	-3.48	273.90	4.00	Horizontal	1M	1.00	-20.27
171.236	39.97	35.2	4.77	263.50	4.00	Horizontal	1M	1.00	-20.76
184.275	42.67	35.2	7.47	70.60	1.09	Horizontal	1M	1.00	-21.25
200.287	37.15	35.2	1.95	11.90	1.09	Horizontal	1M	1.00	-19.85
208.416	37.01	35.2	1.81	6.70	1.09	Horizontal	1M	1.00	-21.90
215.173	37.70	35.2	2.5	343.50	1.03	Vertical	1M	1.00	-21.77
232.188	36.34	35.2	1.14	43.90	1.00	Vertical	1M	1.00	-21.06
248.389	35.91	35.2	0.71	279.20	1.00	Vertical	1M	1.00	-20.59
270.712	42.26	35.2	7.06	242.40	1.00	Vertical	1M	1.00	-18.89
288.049	35.62	35.2	0.42	237.40	1.00	Vertical	1M	1.00	-18.71
302.17	32.05	35.2	-3.15	248.10	1.00	Vertical	1M	1.00	-18.55
310.386	25.06	35.2	-10.14	252.30	1.03	Horizontal	1M	1.00	-18.21
330.411	26.52	35.2	-8.68	129.60	4.00	Horizontal	1M	1.00	-17.92
355.924	26.29	35.2	-8.91	268.40	1.09	Horizontal	1M	1.00	-17.21
367.691	29.92	35.2	-5.28	1.30	1.00	Vertical	1M	1.00	-16.87
393.774	30.80	35.2	-4.4	82.30	1.00	Vertical	1M	1.00	-16.36
404.126	30.27	35.2	-4.93	77.20	1.03	Vertical	1M	1.00	-15.92
825.797	21.50	35.2	-13.7	23.10	3.27	Vertical	1M	1.00	-7.75

Note: The system was scanned with the transmitter turned on and off to determine if the emissions were related to the intentional radiator. It was determined that all emissions were from the host

Tx Low & High Bands Together, 1-3 GHz**Test Information:**

Date and Time	2/18/2026 7:07:58 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	28 %
Atmospheric Pressure	999 mbars
Comments	Scan #28_RE 1 to 3GHz_Tx Low & High band_250W model_30cm test distance

Graph:**Results:**

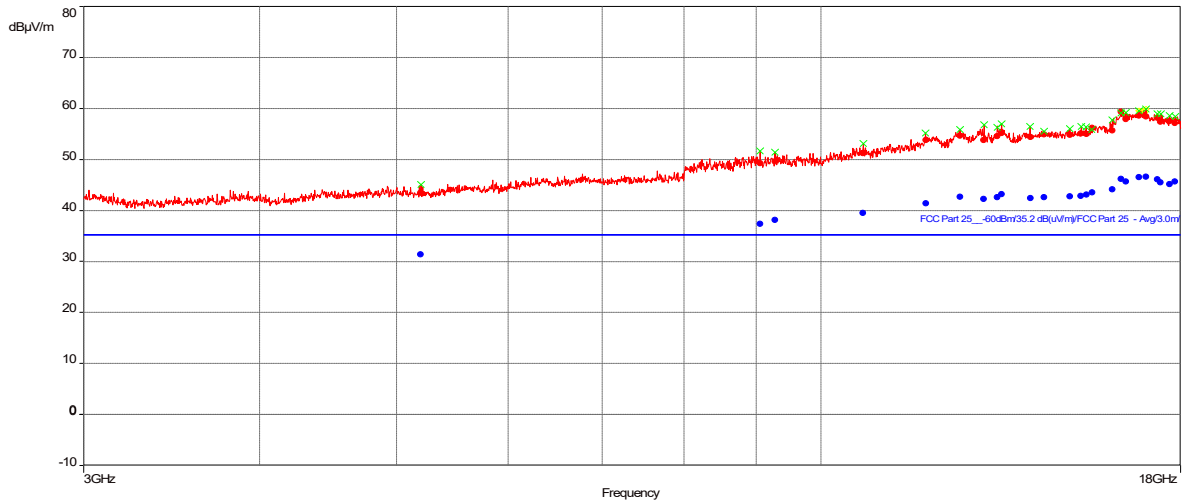
RMS (PASS) (9)

Frequency (MHz)	Level (dBμV/m)	Level – 20 dB distance factor (dB)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
1246.085	23.50	3.5	35.20	-31.7	74.20	2.51	Horizontal	1M	1.00	-8.25
1300.249	24.80	4.8	35.20	-30.4	113.10	3.58	Horizontal	1M	1.00	-7.56
1502.12	23.54	3.54	35.20	-31.66	113.20	1.44	Horizontal	1M	1.00	-8.59
2459.263	30.68	10.68	35.20	-24.52	347.90	1.00	Vertical	1M	1.00	-4.41
2480.112	28.62	8.62	35.20	-26.58	113.30	3.05	Vertical	1M	1.00	-4.24
2757.955	28.92	8.92	35.20	-26.28	152.40	1.00	Horizontal	1M	1.00	-3.94
2941.297	29.77	9.77	35.20	-25.43	0.00	1.00	Vertical	1M	1.00	-2.92
2964.149	30.07	10.07	35.20	-25.13	348.20	3.04	Horizontal	1M	1.00	-2.75
2976.649	30.23	10.23	35.20	-24.97	269.70	2.51	Horizontal	1M	1.00	-2.67

Note: Testing was performed with antenna at 30 cm from the EUT.

Tx Low & High Bands Together, 3-18 GHz**Test Information:**

Date and Time	2/18/2026 4:43:04 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	28 %
Atmospheric Pressure	999 mbars
Comments	Scan #27 RE 3 to 18GHz Tx Low & High band 250W model 30cm test distance

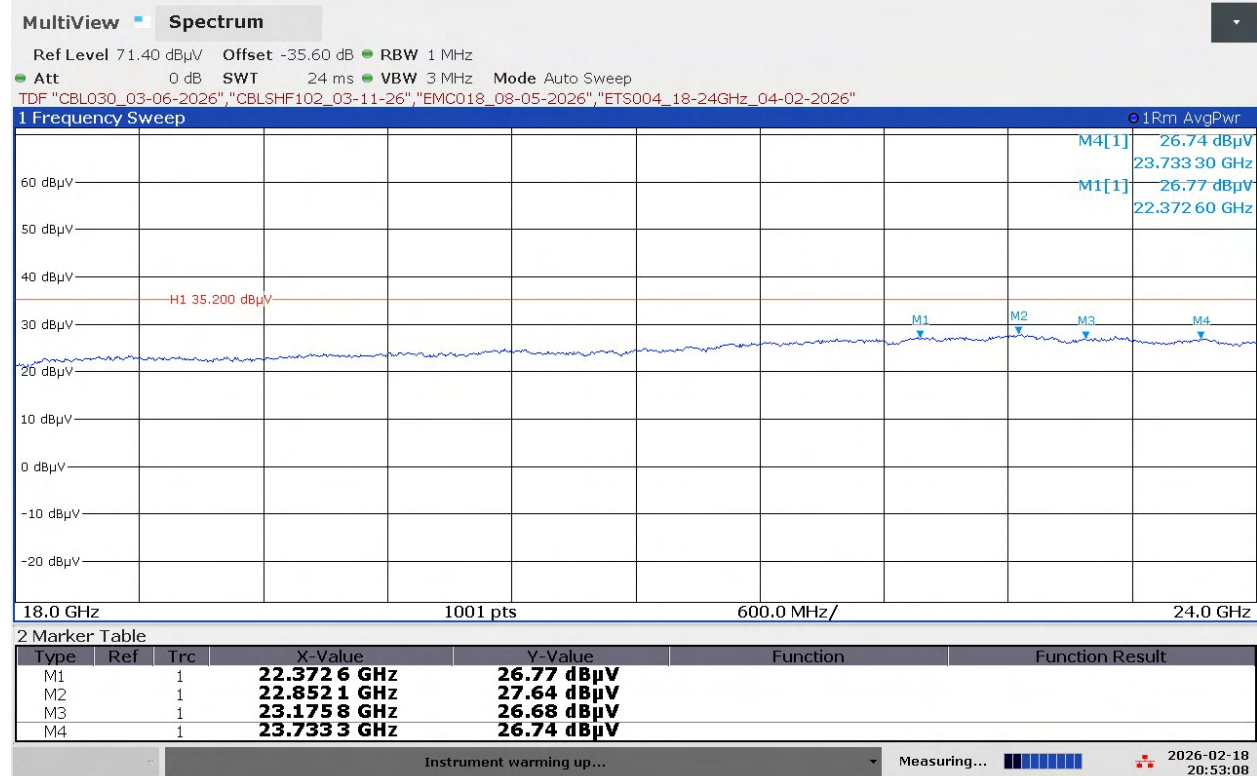
Graph:**Results:**

RMS (PASS) (24)

Frequency (MHz)	Level (dBμV/m)	Level – 20 dB distance factor (dB)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
5202.817	31.42	11.42	35.20	-23.78	265.20	1.00	Vertical	1M	1.00	0.62
9055.242	37.44	17.44	35.20	-17.76	360.00	4.00	Horizontal	1M	1.00	7.14
9278.19	38.14	18.14	35.20	-17.06	360.00	1.00	Vertical	1M	1.00	7.25
10716.821	39.50	19.5	35.20	-15.7	0.00	4.00	Vertical	1M	1.00	9.08
11871.071	41.38	21.38	35.20	-13.82	360.00	4.00	Horizontal	1M	1.00	11.05
12556.82	42.67	22.67	35.20	-12.53	360.00	1.00	Vertical	1M	1.00	12.70
13054.216	42.31	22.31	35.20	-12.89	266.10	4.00	Horizontal	1M	1.00	13.99
13339.5	42.62	22.62	35.20	-12.58	360.00	4.00	Vertical	1M	1.00	14.21
13441.369	43.24	23.24	35.20	-11.96	0.00	4.00	Vertical	1M	1.00	14.04
14083.879	42.49	22.49	35.20	-12.71	0.00	1.00	Vertical	1M	1.00	13.84
14403.694	42.59	22.59	35.20	-12.61	0.00	1.00	Vertical	1M	1.00	14.44
15023.761	42.78	22.78	35.20	-12.42	0.00	4.00	Vertical	1M	1.00	14.83
15296.885	42.85	22.85	35.20	-12.35	0.00	4.00	Vertical	1M	1.00	14.60
15432.392	43.15	23.15	35.20	-12.05	265.80	4.00	Horizontal	1M	1.00	14.64
15575.49	43.56	23.56	35.20	-11.64	360.00	1.00	Vertical	1M	1.00	14.75
16100.838	44.15	24.15	35.20	-11.05	265.80	4.00	Vertical	1M	1.00	15.73
16334.62	46.22	26.22	35.20	-8.98	0.00	4.00	Vertical	1M	1.00	16.61
16460.489	45.70	25.7	35.20	-9.5	265.90	4.00	Horizontal	1M	1.00	17.16
16818.854	46.60	26.6	35.20	-8.6	265.90	1.00	Horizontal	1M	1.00	18.37
17009.455	46.62	26.62	35.20	-8.58	265.90	1.00	Horizontal	1M	1.00	18.48
17329.602	46.14	26.14	35.20	-9.06	360.00	4.00	Vertical	1M	1.00	17.55
17423.367	45.56	25.56	35.20	-9.64	360.00	4.00	Vertical	1M	1.00	17.34
17679.705	45.21	25.21	35.20	-9.99	0.00	1.00	Vertical	1M	1.00	17.16
17838.723	45.72	25.72	35.20	-9.48	265.90	1.00	Vertical	1M	1.00	17.05

Note: Testing was performed with antenna at 30 cm from the EUT.

Tx Low & High Band Together, 18-24 GHz



08:53:08 PM 02/18/2026

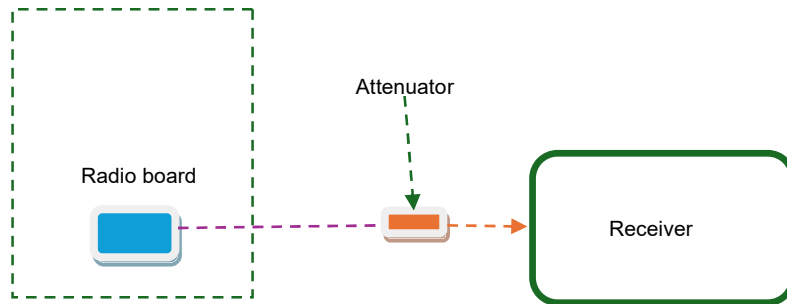
Product Standard: FCC Part 25					Limit applied: See section 10.2 Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
02/18/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Tx mode	23	28	999
02/20/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Tx mode	23	25	997
03/11/2026	Kouma Sinn <i>KPS</i>	Vathana Ven <i>VSV</i>	208VAC 60Hz ~3PH	Tx mode	24	28	1008

Deviations, Additions, or Exclusions: None

11 Frequency Stability

11.1 Method

Tests are performed in accordance with ANSI C63.26.



Testing was performed by placing a transmitter board inside an environmental chamber. Antenna port was connected to a receiver via an attenuator.,

TEST SITE: Safety Lab

11.2 Limit:

FCC Part § 25.202(d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

11.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
SAF1153'	Freezing Rain/Icing\Temp\Humidity\ -73deg C to +190deg C, 95% humidity, Ice Freezing Rain	Cincinnati Sub-Zero	CTH-(FR)64-6-6-SC/AC	12-CT15628	08/29/2025	08/29/2026
CBLHF2012 -5M-2'	5m 9kHz-40GHz Coaxial Cable - SET2	Huber & Suhner	SF102	252676002	03/06/2025	03/06/2026
SAF1312'	Digital Multimeter	Fluke	87V	30840221	01/19/2026	01/19/2027
SAF1648C'	Pressure/Humidity/Temp datalogger	Extech	SD700	A129343	09/17/2025	09/17/2026
ROS005-1'	Signal and Spectrum Analyzer	Rohde and Shwartz	FSW43	100646	01/29/2026	01/29/2027

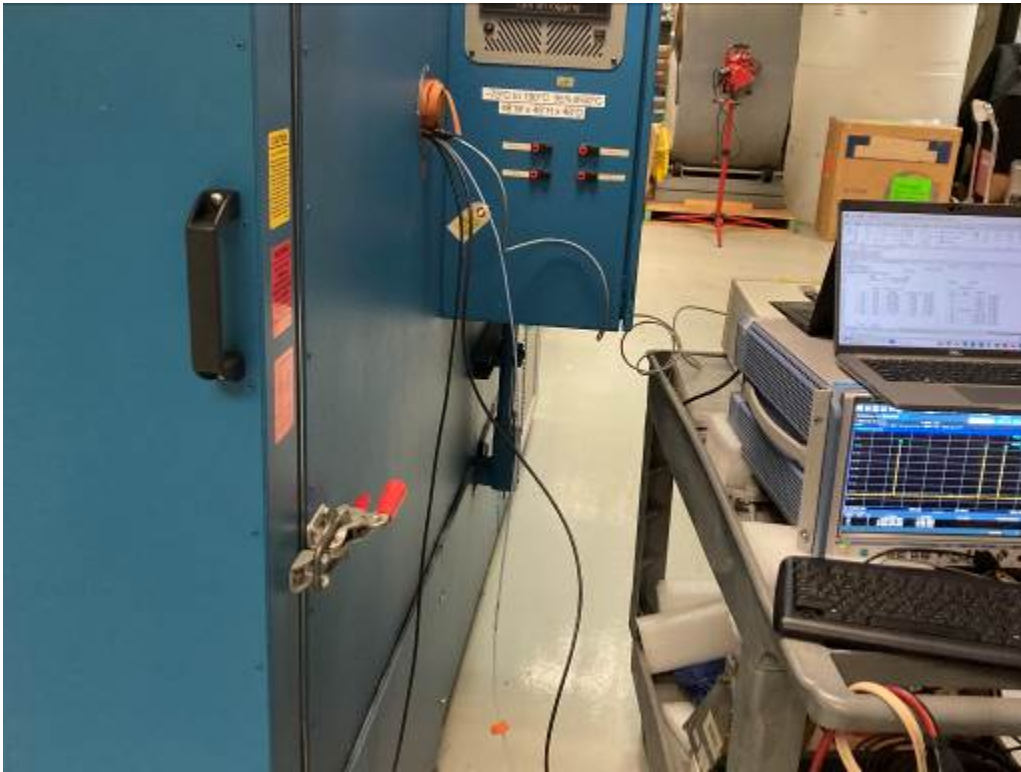
Software Utilized:

Name	Manufacturer	Version
None		

11.4 Results:

The sample tested was found to Comply.

11.5 Setup Photograph:



11.6 Plots/Data:

Lower Band

Company: CPI

Model #: DRU2 250W

Serial #: N/A

Engineer(s): Vathana Ven

Project #: G106282107

Standard: FCC Part 25, 25.202(d)

Limit:

08/19/25

Location: Safety

PPM

Nominal f:

2326.250 MHz

Test Equipment Used:

SAF1153

25.6 deg C

CBLHF2012-5M-2 SAF1312 SAF1648C

1011.2 mB

Voltage:

13.6 VDC

%	Voltage Volts	Frequency Center (MHz)	Deviation kHz	Limit kHz
-15%	11.56	2326.25002	0.00000	23.26250
-10%	12.24	2326.25002	0.00000	23.26250
-5%	12.92	2326.25002	0.00000	23.26250
+0%	13.6	2326.25002	-0.00002	23.26250
+5%	14.28	2326.25002	0.00000	23.26250
+10%	14.96	2326.25002	0.00000	23.26250
+15%	15.64	N/A	N/A	N/A

Temp Celsius	Frequency Center (MHz)	Deviation kHz	Limit kHz
-20.00000	2326.25001	-0.01000	23.26250
-10.00000	2326.25001	-0.01000	23.26250
0.00000	2326.25001	-0.01000	23.26250
10.00000	2326.25002	-0.02000	23.26250
20.00000	2326.25002	-0.02000	23.26250
30.00000	2326.25002	-0.02000	23.26250
40.00000	2326.25002	-0.02000	23.26250
50.00000	2326.25002	-0.02000	23.26250
65.00000	2326.25000	0.00000	23.26250

Limit: 23.2625

Note: The device's voltage operating range is 10 to 15VDC. Temperature range -20 to 65 deg C.

Upper Band

Frequency Stability

Company: CPI

Model #: DRU2 250W

Serial #: N/A

Engineer(s): Vathana Ven

Project #: G106282107

Standard: FCC Part 25, 25.202(d)

Limit:

Date(s): 08/19/25

Location: Safety

PPM

Nominal f:

2338.755 MHz

Test Equipment Used:

SAF1153

25.6 deg C

ROS005-1 CBLHF2012-5M-2 SAF1312 SAF1648C

35.50% 1011.2 mB

Exttech DC P/S, Model 382270, S/N 21040037

2337.495 2340.017

Voltage:

13.6 VDC

%	Voltage Volts	Frequency Low (MHz)	Frequency High (MHz)	Frequency Center (MHz)	Deviation kHz	Limit kHz
-15%	11.56	2337.48990	2340.01990	2338.75500	0.05000	23.37500
-10%	12.24	2337.48990	2340.02000	2338.75500	0.05000	23.37500
-5%	12.92	2337.48990	2340.01999	2338.75500	0.05000	23.37500
+0%	13.6	2337.48995	2340.02000	2338.75500	0.00000	23.37500
+5%	14.28	2337.48990	2340.02000	2338.75500	0.05000	23.37500
+10%	14.96	2337.48990	2340.02000	2338.75500	0.05000	23.37500
+15%	15.64	N/A	N/A	N/A	N/A	N/A

Temp Celsius	Frequency Low (MHz)	Frequency High (MHz)	Frequency Center (MHz)	Deviation kHz	Limit kHz
-20	2337.49001	2340.02001	2338.75500	-0.00745	23.37500
-10	2337.49001	2340.02001	2338.75500	-0.00745	23.37500
0	2337.49001	2340.02001	2338.75500	-0.00745	23.37500
10	2337.49002	2340.02002	2338.75500	-0.01900	23.37500
20	2337.49000	2340.02000	2338.75500	0.00000	23.37500
30	2337.49002	2340.02002	2338.75500	-0.01900	23.37500
40	2337.49002	2340.02002	2338.75500	-0.01900	23.37500
50	2337.490019	2340.02002	2338.75500	-0.01900	23.37500
65	2337.490020	2340.02002	2338.75500	-0.02000	23.37500

Limit: 0.023375

Note: The device's voltage operating range is 10 to 15VDC. Temperature range -20 to 65 deg C.

Intertek

Report Number: 106502357BOX-001 REV1	Issued: 03/25/2026 Revised: 04/23/2026
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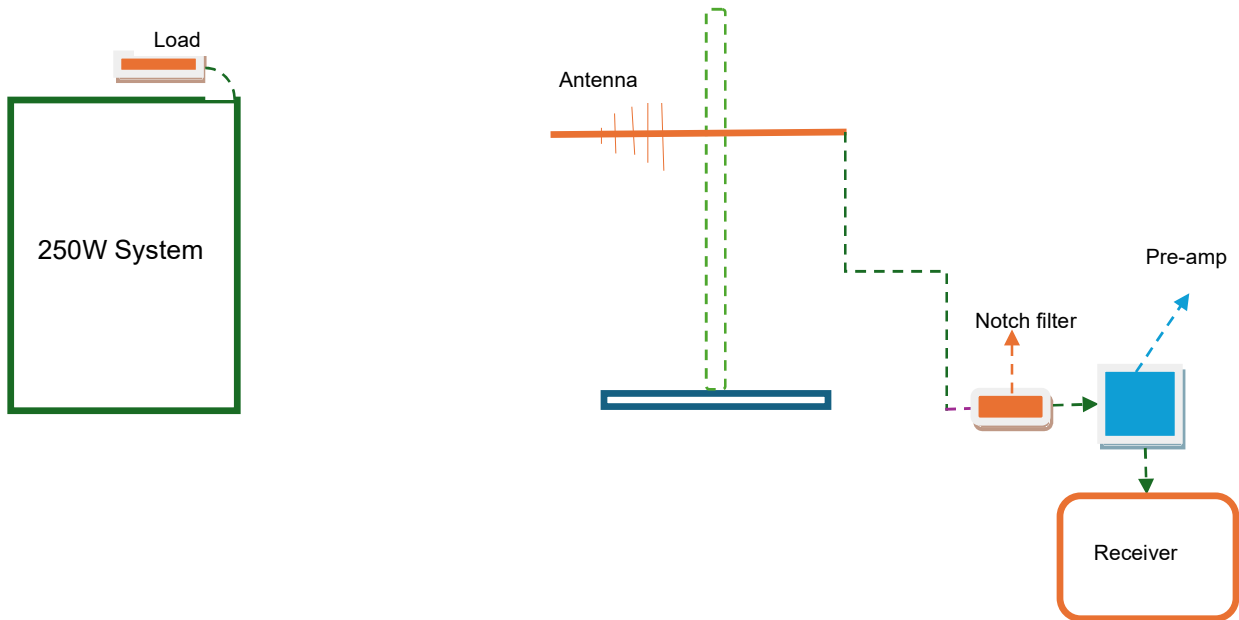
Product Standard: FCC Part 25				Limit applied: See section 11.2 Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
08/19/2025	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	15VDC	Tx mode	25.6	48	1011.2

Deviations, Additions, or Exclusions: None

12 Radiated Emissions of Digital Device

12.1 Method

Tests are performed in accordance with ANSI 63.4.



The 250W System was tested in a 10M chamber. The EUT, antenna, notch filter, and pre-amp were located inside the chamber and the receiver was placed outside in the control room.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	5.6 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.4 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.1 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.8 dB	5.5 dB

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Radiated Emissions, 3m	18-40 GHz	5.1 dB	5.5 dB
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As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where
 FS = Field Strength in dB μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ V
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

$$NF = \text{Net Reading in dB}\mu\text{V}$$

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

Intertek

Report Number: 106502357BOX-001 REV1

Issued: 03/25/2026

Revised: 04/23/2026

12.2 Limit:

FCC 47CFR Part 15.109(b) Subpart B

Frequency of Emissions (MHz)	Field Strength Limit at 10 m (μV/m)	Field Strength Limit at 10 m (dBμV/m)
30-88	90	39.08
88-216	150	43.52
216-960	210	46.44
Above 960	300	59.65

Notes: dBμV/m = 20*log(μV/m)

12.3 Test Equipment Used:

Test equipment used from 30-1000 MHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	10/29/2025	10/29/2026
HS006'	2m Long	Huber suhner	SF118A	505110/118A	10/09/2025	10/09/2026
IW006'	DC-18GHz cable 8.4m long	Insulated Wire	2800-NPS	IW006	05/28/2025	05/28/2026
145-406'	10m Track A In-floor Cable #1	Huber + Suhner	sucoflex 160-19220mm	001	06/26/2025	06/26/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	03/03/2025	03/03/2026
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	09/18/2025	09/18/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 1-3 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/14/2025	07/14/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	03/06/2025	03/06/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/18/2025	09/18/2026
RENT010'	100MHz to 18GHz pre-amplifier 48dB gain	EMC Shop	PA18G-HA	001366	11/18/2025	11/18/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

Test equipment used from 3-18 GHz

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS014'	Receiver 1Hz-44GHz	Rhode & Schwarz	ESW 44	103232	06/17/2025	06/17/2026
145-414'	Cable 145-414	Huber + Suhner	3m Track A cable	145-414	07/14/2025	07/14/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS003'	10m under floor cable	Huber-Schuner	10m-1	HS003	03/06/2025	03/06/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
ETS002'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	09/18/2025	09/18/2026
RENT010'	100MHz to 18GHz pre-amplifier 48dB gain	EMC Shop	PA18G-HA	001366	11/18/2025	11/18/2026
REA004'	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	03/06/2025	03/06/2026
REA010'	2332MHz Band stop filter, Passband 1-3GHz except notch	Reactel, Inc	12RX7-2332 5-X70S11	25-01	11/17/2025	11/17/2026
N/A	Coaxial termination	Bird Technologies	8251	204	VBV	VBV

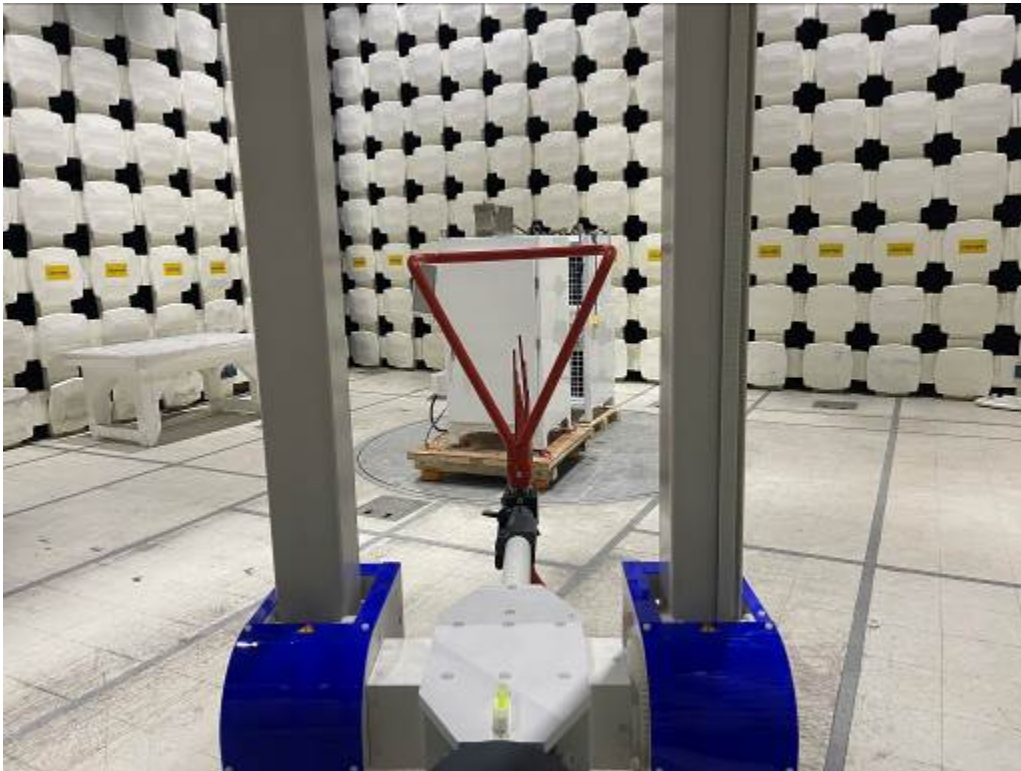
Name	Manufacturer	Version
BAT-EMC	Nexio	2022.0.27.0

12.4 Results:

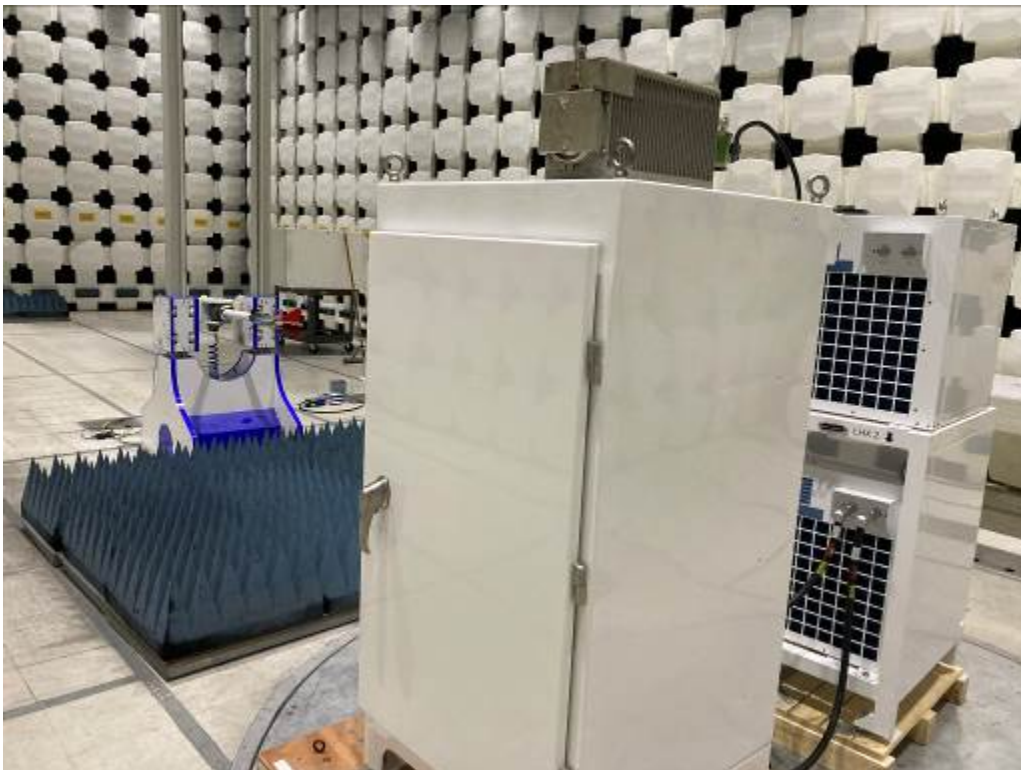
The sample tested was found to Comply with modifications.

12.5 Setup Photographs:

30 – 1000 MHz



Above 1 GHz



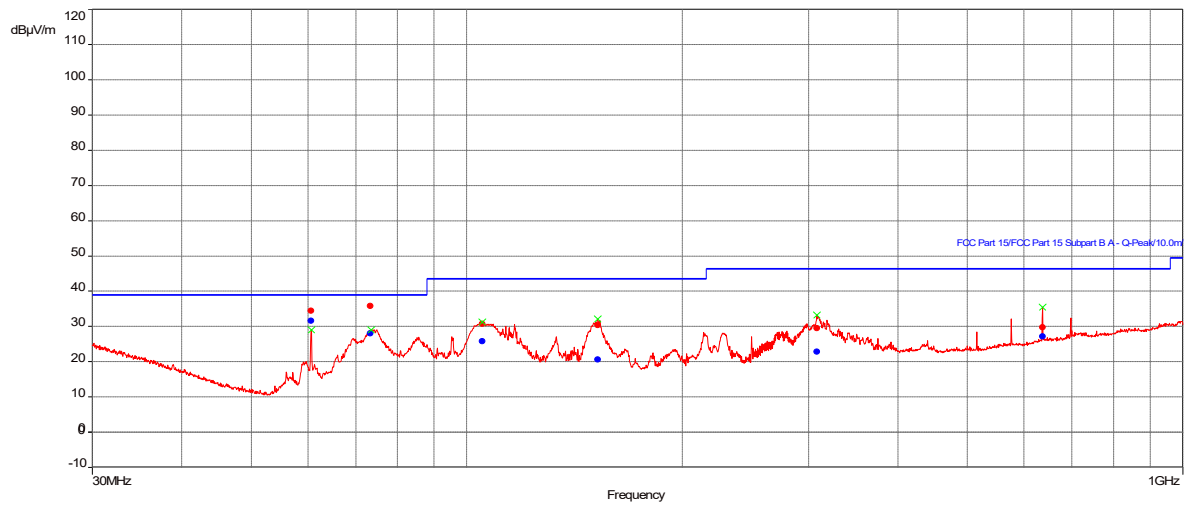
12.6 Plots/Data:

30-1000MHz_System running with Tx Low Band

Test Information:

Date and Time	8/12/2025 6:01:48 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	26 deg C
Humidity	44 %
Atmospheric Pressure	1005 mbars
Comments	Scan #1_RE 30-1000MHz_208VAC 60Hz_Tx Low Band 2324.244-2328.256 MHz_FCC Part 15B Class A

Graph:



Results:

QuasiPeak (PASS) (6)

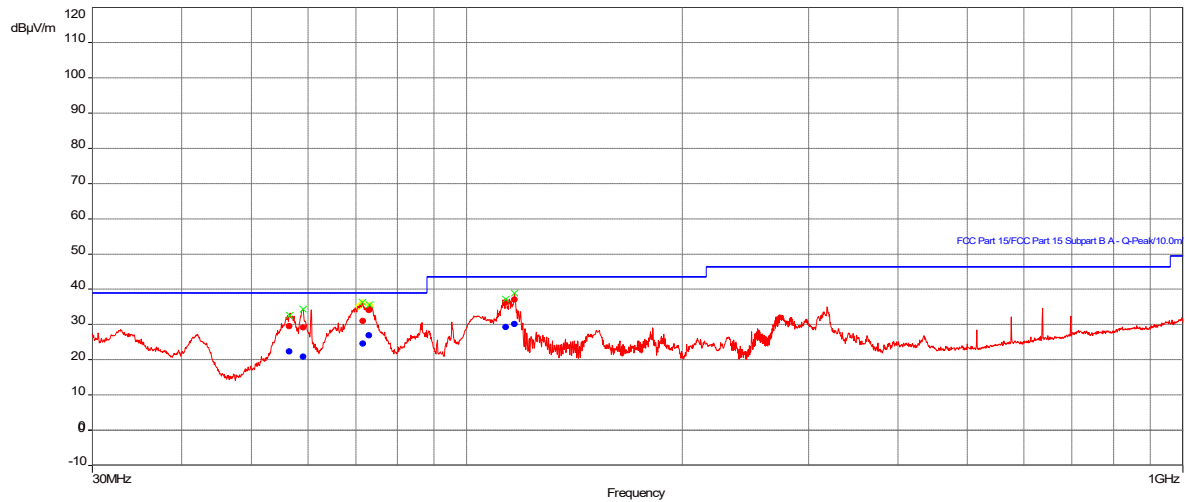
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
60.6196	31.61	39.00	-7.39	91.90	4.00	Vertical	120k	1.00	-25.50
73.349	28.07	39.00	-10.93	219.80	1.09	Vertical	120k	1.00	-24.86
105.1007	25.90	44.00	-18.1	70.40	3.03	Horizontal	120k	1.00	-20.82
152.385	20.70	44.00	-23.3	286.90	4.00	Horizontal	120k	1.00	-19.85
308.0628	22.82	46.00	-23.18	347.60	3.15	Horizontal	120k	1.00	-18.02
636.636	27.21	46.00	-18.79	237.50	4.00	Vertical	120k	1.00	-10.39

30-1000MHz_System running with Tx High Band

Test Information:

Date and Time	8/12/2025 6:46:07 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	26 deg C
Humidity	44 %
Atmospheric Pressure	1005 mbars
Comments	Scan #2_RE 30-1000MHz_208VAC 60Hz_Tx High Band 2336.225-2341.285 MHz_FCC Part 15B Class A

Graph:



Results:

QuasiPeak (PASS) (6)

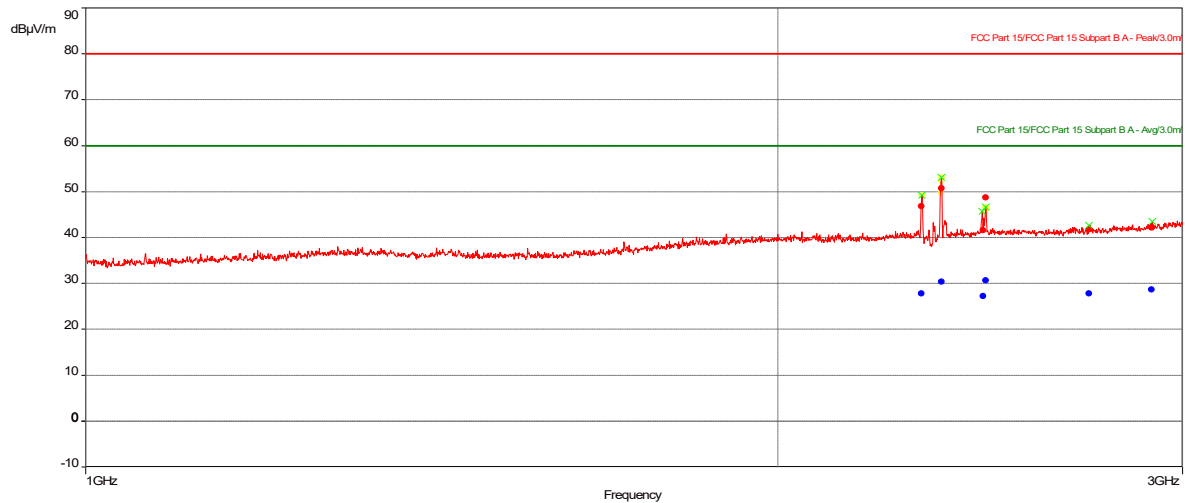
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
56.5351	22.34	39.00	-16.66	43.90	4.00	Vertical	120k	1.00	-25.79
59.0895	20.93	39.00	-18.07	11.90	4.00	Vertical	120k	1.00	-25.58
71.6023	24.58	39.00	-14.42	246.60	4.00	Vertical	120k	1.00	-24.82
72.9949	26.92	39.00	-12.08	254.10	1.33	Vertical	120k	1.00	-24.86
113.331	29.25	43.50	-14.25	59.80	2.78	Vertical	120k	1.00	-19.31
116.5785	30.20	43.50	-13.30	54.70	4.00	Vertical	120k	1.00	-18.90

1 – 3 GHz, System running with Tx Low & High Band

Test Information:

Date and Time	2/18/2026 8:10:06 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	28 %
Atmospheric Pressure	999 mbars
Comments	Scan #29_RE 1 to 3 GHz_Tx Low & High Band

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2309.153	46.81	80.00	-33.19	348.00	1.98	Vertical	1M	1.00	-4.72
2356.449	50.71	80.00	-29.29	347.90	1.98	Vertical	1M	1.00	-4.57
2456.221	41.66	80.00	-38.34	74.10	3.58	Vertical	1M	1.00	-4.40
2463.412	48.77	80.00	-31.23	0.00	1.00	Vertical	1M	1.00	-4.39
2731.464	41.78	80.00	-38.22	230.40	3.58	Vertical	1M	1.00	-3.98
2908.494	42.20	80.00	-37.8	74.20	2.51	Vertical	1M	1.00	-3.17

AVG (PASS) (6)

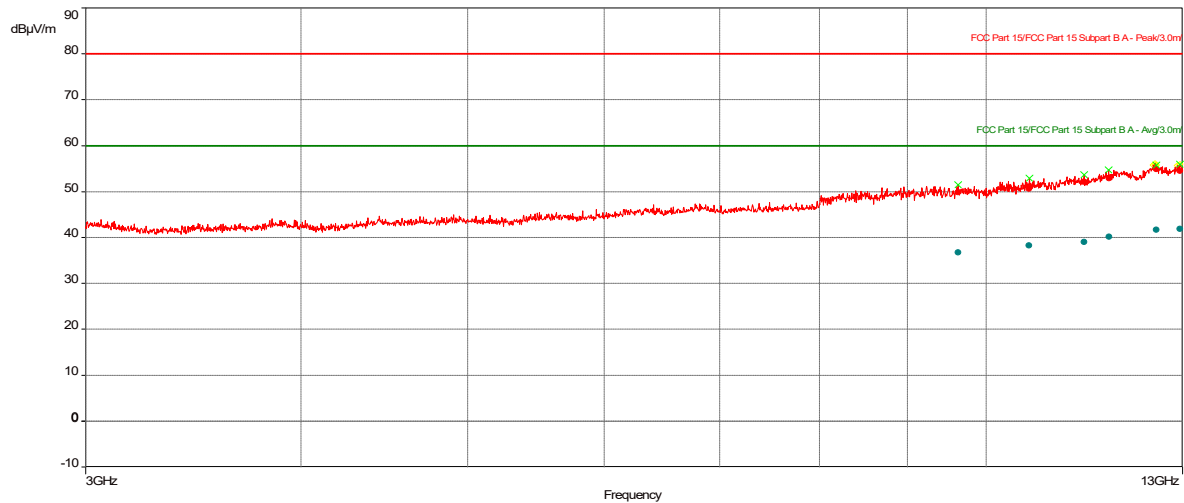
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2309.153	27.81	60.00	-32.19	348.00	1.98	Vertical	1M	1.00	-4.72
2356.449	30.44	60.00	-29.56	347.90	1.98	Vertical	1M	1.00	-4.57
2456.221	27.27	60.00	-32.73	74.10	3.58	Vertical	1M	1.00	-4.40
2463.412	30.71	60.00	-29.29	0.00	1.00	Vertical	1M	1.00	-4.39
2731.464	27.81	60.00	-32.19	230.40	3.58	Vertical	1M	1.00	-3.98
2908.494	28.74	60.00	-31.26	74.20	2.51	Vertical	1M	1.00	-3.17

1 – 13 GHz, System running with Tx Low & High Band

Test Information:

Date and Time	2/18/2026 8:44:55 PM
Client and Project Number	CPI_G106282107
Engineer	Vathana Ven
Temperature	23 deg C
Humidity	28 %
Atmospheric Pressure	999 mbars
Comments	Scan #30_RE 3 to 13 GHz_Tx Low & High Band_FCC Part 15B

Graph:



Results:

Peak (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9632.532	49.92	80.00	-30.08	177.20	3.44	Vertical	1M	1.00	7.47
10590.49	50.69	80.00	-29.31	177.00	3.44	Horizontal	1M	1.00	8.87
11395.707	52.21	80.00	-27.79	177.20	3.44	Horizontal	1M	1.00	9.82
11781.843	52.96	80.00	-27.04	0.00	4.00	Horizontal	1M	1.00	10.93
12550.214	54.97	80.00	-25.03	177.20	3.44	Horizontal	1M	1.00	12.69
12955.655	54.55	80.00	-25.45	360.00	3.44	Vertical	1M	1.00	13.92

AVG (PASS) (6)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
9632.532	36.74	60.00	-23.26	177.20	3.44	Vertical	1M	1.00	7.47
10590.49	38.26	60.00	-21.74	177.00	3.44	Horizontal	1M	1.00	8.87
11395.707	39.05	60.00	-20.95	177.20	3.44	Horizontal	1M	1.00	9.82
11781.843	40.22	60.00	-19.78	0.00	4.00	Horizontal	1M	1.00	10.93
12550.214	41.70	60.00	-18.30	177.20	3.44	Horizontal	1M	1.00	12.69
12955.655	41.88	60.00	-18.12	360.00	3.44	Vertical	1M	1.00	13.92

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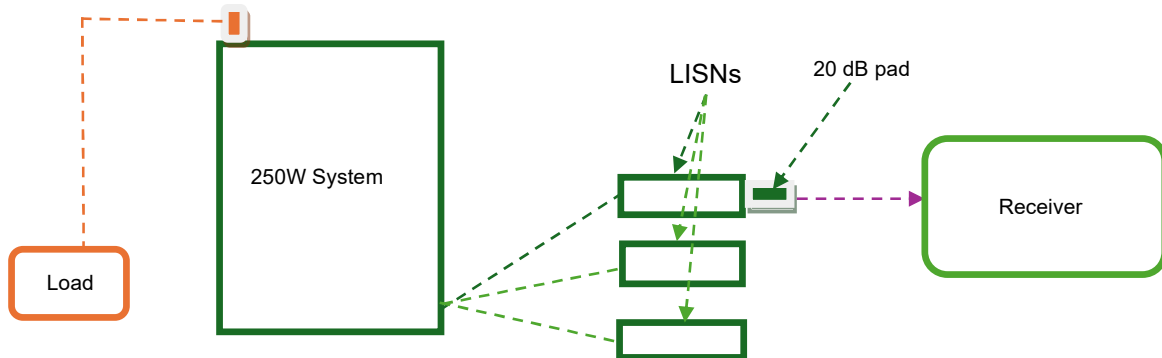
Product Standard: FCC Part 15 Subpart B				Limit applied: Class A (See Section 12.2) Pretest Verification w/BB source: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
08/12/2025	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Operating mode mode	26	44	1005
02/18/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Operating mode mode	23	28	999

Deviations, Additions, or Exclusions: None

13 AC Mains Conducted Emissions

13.1 Method

Tests are performed in accordance with ANSI C63.4.



Testing was performed by connecting each phase to a receiver via a LISN and 20 dB pad. The other two LISNs were terminated with 50 ohm terminator.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
AC Line Conducted Emissions	150 kHz - 30 MHz	2.8 dB	3.4dB
Telco Port Emissions	150 kHz - 30 MHz	4.1 dB	5.0dB
AC Line Conducted Emissions	9 kHz - 150 MHz	2.4 dB	3.4 dB

As shown in the table above our conducted emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculations

The following is how net line-conducted readings were determined:

$$NF = RF + LF + CF + AF$$

Where NF = Net Reading in dBμV

RF = Reading from receiver in dBμV

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LF = LISN or ISN Correction Factor in dB
CF = Cable Correction Factor in dB
AF = Attenuator Loss Factor in dB

To convert from dBμV to μV or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μV
NF = Net Reading in dBμV

Example:

NF = RF + LF + CF + AF = 28.5 + 0.2 + 0.4 + 20.0 = 49.1 dBμV
 $UF = 10^{(49.1 \text{ dBμV} / 20)} = 285.1 \text{ μV/m}$

When BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes LISN Factor, Attenuator, and Cable Loss. These are already accounted for in the "Level" column.

13.2 Limit:

FCC 47CFR Part 15.107(b) Subpart B

Frequency of Emissions (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

13.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/10/2025	03/10/2026
ROS013'	5kHz-30MHz	Rhode & Schwarz	EPL	100952	02/27/2025	02/27/2026
EMC019'	10dB attenuator	Mini Circuits	10dB	EMC019	03/11/2025	03/11/2026
SOL64'	Voltage Line Probe, 1500 ohm, FCC	Solar	8614-1	8614150803	12/02/2024	12/02/2025
CBL310E'	30' CABLE, BNC/BNC	Alpha	RG58B/U	CBL310E	03/06/2025	03/06/2026

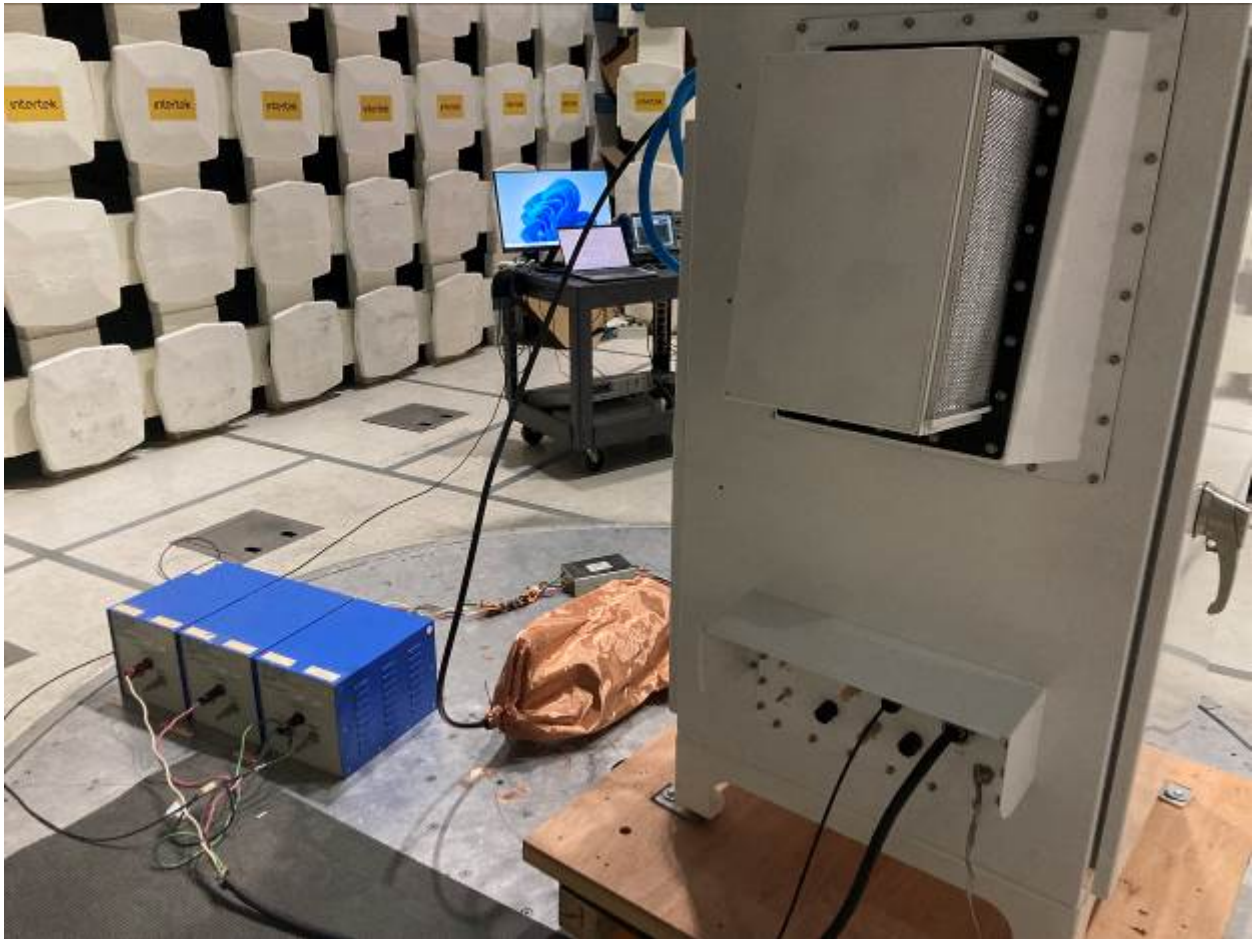
Software Utilized:

Name	Manufacturer	Version
EMI Boxborough.xls	Intertek	08/27/2010

13.4 Results:

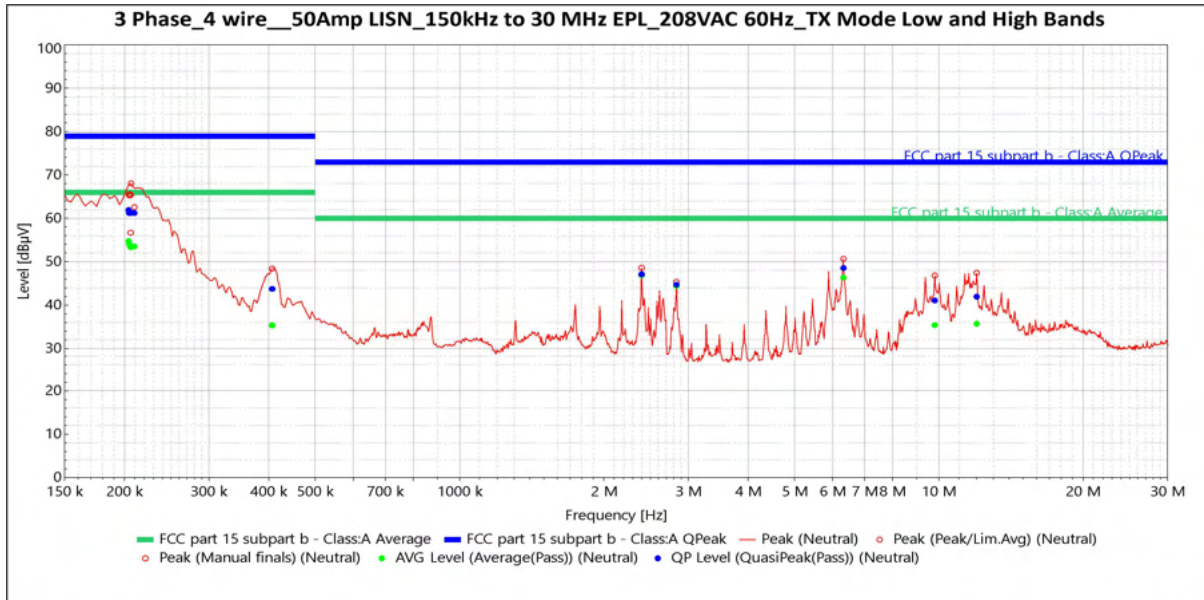
The sample tested was found to Comply.

13.5 Setup Photograph:



13.6 Plots/Data:

DATE	08/13/2025
ENGINEER	Vathana Ven
CLIENT AND PROJECT	CPI Satcom & Antenna Technologies_G106282107



Final source: Average(Pass)

Frequency	Line	Correction (dB)	AVG Level (dBμV)	AVG Limit (dBμV)	AVG Margin (dB)	RBW (Hz)	Meas.Time (s)
203.85 kHz	Phase 3	9.91	54.771	66	-11.229	9 kHz	5
204.4 kHz	Phase 3	9.91	54.074	66	-11.926	9 kHz	5
204.5 kHz	Phase 3	9.91	54.088	66	-11.912	9 kHz	5
205.8 kHz	Phase 3	9.909	53.399	66	-12.601	9 kHz	5
205.99 kHz	Phase 3	9.909	53.433	66	-12.567	9 kHz	5
209.57 kHz	Phase 3	9.909	53.56	66	-12.44	9 kHz	5
406.15 kHz	Phase 2	9.901	35.355	66	-30.645	9 kHz	5
2.3966 MHz	Phase 1	10.005	46.941	60	-13.059	9 kHz	5
2.8325 MHz	Phase 1	10.029	44.439	60	-15.561	9 kHz	5
6.31765 MHz	Phase 1	10.175	46.366	60	-13.634	9 kHz	5
9.7982 MHz	Phase 3	10.332	35.414	60	-24.586	9 kHz	5
11.9834 MHz	Phase 1	10.394	35.732	60	-24.268	9 kHz	5

Final source: QuasiPeak(Pass)

Frequency	Line	Correction (dB)	RBW (Hz)	Meas.Time (s)	QP Level (dBμV)	QP Limit (dBμV)	QP Margin (dB)
203.85 kHz	Phase 3	9.91	9 kHz	5	61.948	79	-17.052
204.4 kHz	Phase 3	9.91	9 kHz	5	61.247	79	-17.753
204.5 kHz	Phase 3	9.91	9 kHz	5	61.462	79	-17.538
205.8 kHz	Phase 3	9.909	9 kHz	5	61.373	79	-17.627
205.99 kHz	Phase 3	9.909	9 kHz	5	61.276	79	-17.724
209.57 kHz	Phase 3	9.909	9 kHz	5	61.275	79	-17.725
406.15 kHz	Phase 2	9.901	9 kHz	5	43.777	79	-35.223
2.3966 MHz	Phase 1	10.005	9 kHz	5	47.126	73	-25.874
2.8325 MHz	Phase 1	10.029	9 kHz	5	44.748	73	-28.252
6.31765 MHz	Phase 1	10.175	9 kHz	5	48.592	73	-24.408
9.7982 MHz	Phase 3	10.332	9 kHz	5	41.102	73	-31.898
11.9834 MHz	Phase 1	10.394	9 kHz	5	41.985	73	-31.015

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Product Standard: FCC Part 15 Subpart B				Limit applied: Class A (See Section 13.2) Pretest Verification w/ signal generator: Yes			
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
08/13/2026	Vathana Ven <i>VSV</i>	Kouma Sinn <i>KPS</i>	208VAC 60Hz ~3PH	Operating mode	27	45	999

Deviations, Additions, or Exclusions: None

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14 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	03/25/2026	106502357BOX-001	VFV <i>VFV</i>	KPS <i>KPS</i>	Original Issue
1	04/23/2026	106502357BOX-001 REV1	VFV <i>VFV</i>		Added table for output power, added and block diagram for test setup in every section. Removed one of the antennas from test report

END OF TEST REPORT