

TEST REPORT

Report Number: 106033026MPK-010
Project Number: G106033026, G106562063
Report Issue Date: February 13, 2025
Report Revision Date: May 5, 2026; June 5, 2026
Test Laboratory Company Number: 2042L-1

Testing performed on
BIN-SENSE Live Remote Unit
Model Number: BRU-106103-RU_V3

FCC ID: 2AUTY-106103RU-V3
IC: 27173-106103RUV3
HVIN: RUV3

to

FCC Part 15 Subpart C (15.247)
ISED RSS-247 Issue 4

For

Calian Agriculture Ltd.

Test Performed by:
Intertek
1365 Adams Court
Menlo Park, CA 94025
USA

Test Authorized by:
Calian Agriculture Ltd.
118 Husum Road
RM of Sherwood, SK S4K0A4
Canada

Prepared by:



Arjun Mukherjea

Date: June 5, 2026

Reviewed by:



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Date: February 13, 2025

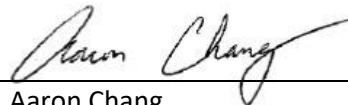
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Report No. 106033026MPK-010	
Equipment Under Test:	BIN-SENSE Live Remote nit
Model Number:	BRU-106103-RU_V3
Applicant:	Calian Agriculture Ltd.
Contact:	Simon Lee
Address:	Calian Agriculture Ltd. 118 Husum Road RM of Sherwood, SK S4K0A4
Country:	Canada
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Email:	simon.lee@calian.com
Applicable Regulation:	FCC Part 15 Subpart C (15.247) ISED RSS-247 Issue 4
Date of Test:	January 22 – 29, 2025

We attest to the accuracy of this report:



Arjun Mukherjea
EMC Engineer



Aaron Chang
EMC Team Leader

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1.0 Summary of Tests

Test	Reference FCC	Reference Industry Canada	Result
RF Output Power	15.247(b)(3)	RSS-247, 6.3.2	Complies
6 dB Bandwidth	15.247(a)(2)	RSS-247, 6.3.1.a	Complies
Power Density	15.247(e)	RSS-247, 6.3.1.b	Complies
Out of Band Antenna Conducted Emission	15.247(d)	RSS-247, 6.6	Complies
Transmitter Radiated Emissions	15.247(d), 15.209, 15.205	RSS-247, 6.6	Complies
AC Line Conducted Emission	15.207	RSS-GEN	Not Applicable – EUT is battery powered.
Antenna Requirement	15.203	RSS-GEN	Complies (Unique Coupling)

EUT receive date: January 15, 2025

EUT receive condition: The pre-production version of the EUT was received in good condition with no apparent damage. As declared by the Applicant, it is identical to the production units.

Test start date: January 22, 2025

Test completion date: January 29, 2025

The test results in this report pertain only to the item tested.

2.0 General Information

2.1 Product Description

Calian Agriculture Ltd. supplied the following description of the EUT:

This device collects sensor data through external wired interfaces and organizes that data into useful arrays that are transmitted to a server where it can be processed and presented to customers for review and alerting. The Master unit contains a radio to wirelessly communicate with Remote units that are associated to it. Remote units are responsible for collecting raw sensor data and transmitting them to the master without any further processing. The Master unit contains a cellular radio to transmit all of the data collected by itself and all of the remotes to a server. The server can send commands back to the Master to provide control of itself and pass that on to Remote units.

These devices are designed to be mounted on grain bins, grain elevators or structures where grain is being stored. They are outdoor devices requiring line of sight in order to communicate with each other. They can be mounted in very remote locations or on farmland, as long as cellular service is available.

The data collected is used to monitor the temperature and moisture content of the grain to maximize its value as well as to detect spoilage in order to minimize loss. Changes in temperature can be detected early and the grain can be turned in order to prevent it from spoiling. Fan controllers can also be controlled and monitored through the system so that fresh air or heat can be pushed through the grain to control the temperature and moisture of the product.

For more information, refer to the following product specification, declared by the manufacturer.

Information about the 2.4 GHz radio is presented below:

Applicant	Calian Agriculture Ltd.
Model No.	BRU-106103-RU_V3
Type of transmission	Zigbee
Rated RF Output	20.02 dBm
Antenna(s) & Gain	Internal Primary antenna (large) – Pulse W5001, 1.5dBi gain Internal Secondary antenna (small) – Laird NanoBlue, 2dBi gain
Frequency Range	2405 – 2470 MHz
Type of modulation/data rate	O-QPSK
Number of Channel(s)	14 (Channel 11-24)
Applicant Name & Address	Calian Agriculture Ltd. 118 Husum Road RM of Sherwood, SK S4K0A4 Canada

2.2 Related Submittal(s) Grants

None.

2.3 Test Facility

The test site used to collect the radiated data is site 1 (10-m semi-anechoic chamber). This test facility and site measurement data have been fully placed on file with the FCC, IC and A2LA accredited.

2.4 Test Methodology

Antenna conducted measurements were performed according to the FCC documents “Guidance for Performing Compliance Measurement on Digital Transmission Systems (DTS) Operating under §15.247” (KDB 558074 D01 DTS Meas Guidance v05r02), and RSS-247 Issue 4, RSS-GEN Issue 5.

Radiated emissions and AC mains conducted emissions measurements were performed according to the procedures in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “Data Sheet” of this report.

2.5 Measurement Uncertainty

Compliance with the limits was based on the results of the measurements and doesn’t take into account the measurement uncertainty.

Estimated Measurement Uncertainty

Measurement	Expanded Uncertainty (k=2)		
	0.15 MHz – 1 GHz	1 GHz – 2.5 GHz	> 2.5 GHz
RF Power and Power Density – antenna conducted	-	0.7 dB	-
Unwanted emissions – antenna conducted	1.1 dB	1.3 dB	1.9 dB
Bandwidth – antenna conducted	-	30 Hz	-

Measurement	Expanded Uncertainty (k=2)			
	0.15 MHz – 30MHz	30 – 200 MHz	200 MHz – 1 GHz	1 GHz – 18 GHz
Radiated emissions	-	4.7	4.6	5.1 dB
AC mains conducted emissions	2.1 dB	-	-	-

3.0 System Test Configuration

3.1 Support Equipment

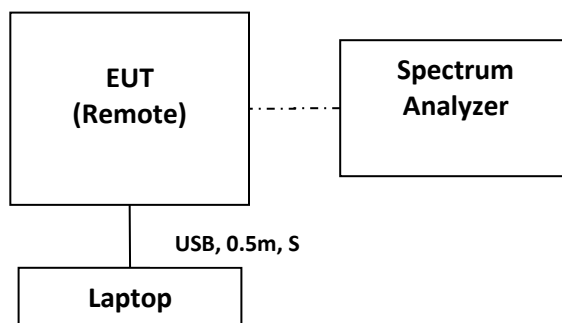
Support Equipment		
Description	Manufacturer	Model
Laptop*	Dell	Latitude 5400

*Only used for programming the radio

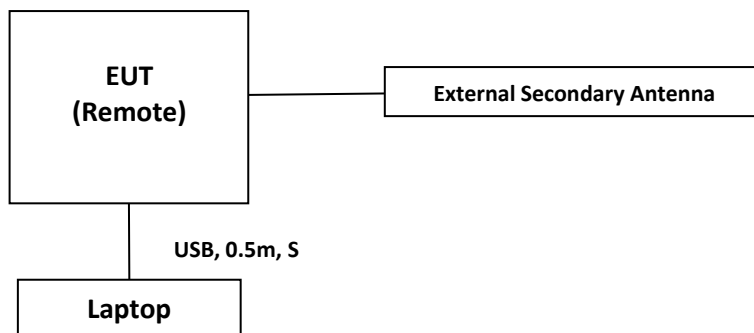
3.2 Block Diagram of Test Setup

Equipment Under Test			
Description	Manufacturer	Model	Serial Number
BIN-SENSE Live Remote Unit	Calian Agriculture Ltd.	BRU-106103-RU_V3	1F0265776

Antenna was removed and co-axial connector with a cable was installed for Conducted Measurements.



Radiated Measurements SETUP
Primary and Cellular Antenna are Internal Antennas



S = Shielded
U = Unshielded

F = With Ferrite
m = Length in Meters

EUT Photo



3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table. The EUT was configured to continuously transmit. The highest clock frequency used in the EUT is 2.470 GHz.

3.4 Software Exercise Program

The EUT exercise program used during radiated and conducted testing was provided by Calian Agriculture Ltd.

3.5 Mode of Operation during Test

Mode of operation during the tests was setup using a laptop which allows controlling the radio by test software. During the transmitter tests the GUI power level was set at the following:

	Antenna 1 Power level	Antenna 2 Power Level
Channel 11	9	9
Channel 18	9	9
Channel 23	9	9
Channel 24	9	8*

*All conducted testing, except for RF Output Power, was tested at setting 9. Radiated emissions below 1 GHz was also tested with setting 9. For radiated emissions 18-40Ghz, noted power levels were used to meet compliance.

EUT was placed into transmit mode at the lowest (2405MHz) middle (2440MHz), and highest (2470MHz) channels.

3.6 Modifications Required for Compliance

No modifications were made by the manufacturer or Intertek to the EUT in order to bring the EUT into compliance.

3.7 Additions, Deviations and Exclusions from Standards

No additions, deviations or exclusions from the standard were made.

4.0 Measurement Results

4.1 6-dB Bandwidth and 99% Occupied Bandwidth FCC Rule: 15.247(a)(2); RSS-247, 6.3.1.a and RSS-GEN;

4.1.1 Requirement

The minimum 6-dB bandwidth shall be at least 500 kHz

4.1.2 Procedure

A spectrum analyzer was connected to the antenna port of the transmitter.

For FCC 6dB Channel Bandwidth the Procedure described in the FCC Publication KDB 558074 D01 Meas Guidance v05r02 was used to determine the DTS occupied bandwidth. Section 11.8.1 Option 1 of ANSI c63.10 was used.

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

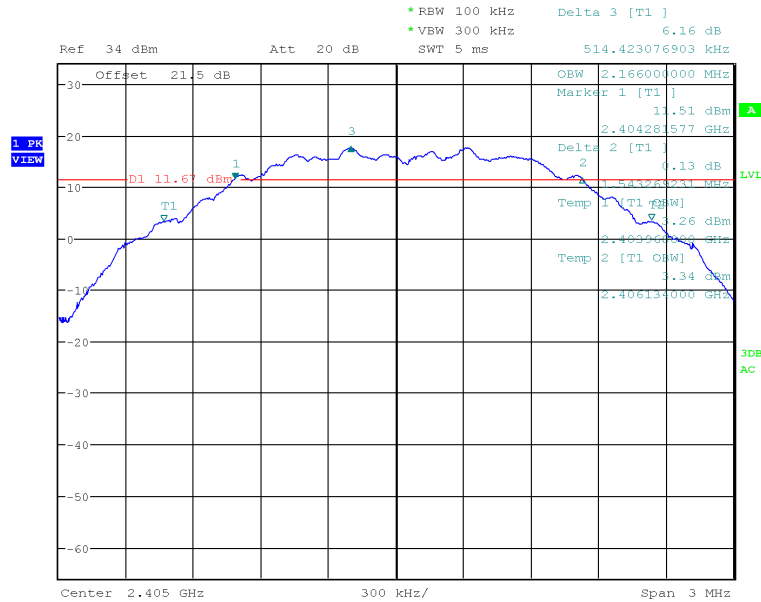
For 99% power bandwidth measurement, the bandwidth was determined by using the built-in 99% occupied bandwidth function of the spectrum analyzer. The resolution bandwidth is set to 1% of the selected span as is without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.

4.1.3 Test Result

Antenna	Frequency (MHz)	6-dB bandwidth FCC 15.247 & RSS-GEN, MHz	Occupied bandwidth, RSS-GEN, MHz	Plot
1	2405	1.543	--	1.1
		--	2.166	1.1
	2440	1.471	--	1.3
		--	2.187	1.3
	2470	1.564	--	1.5
		--	2.201	1.5
2	2405	1.548	--	1.2
		--	2.175	1.2
	2440	1.543	--	1.4
		--	2.199	1.4
	2470	1.573	--	1.6
		--	2.220	1.6

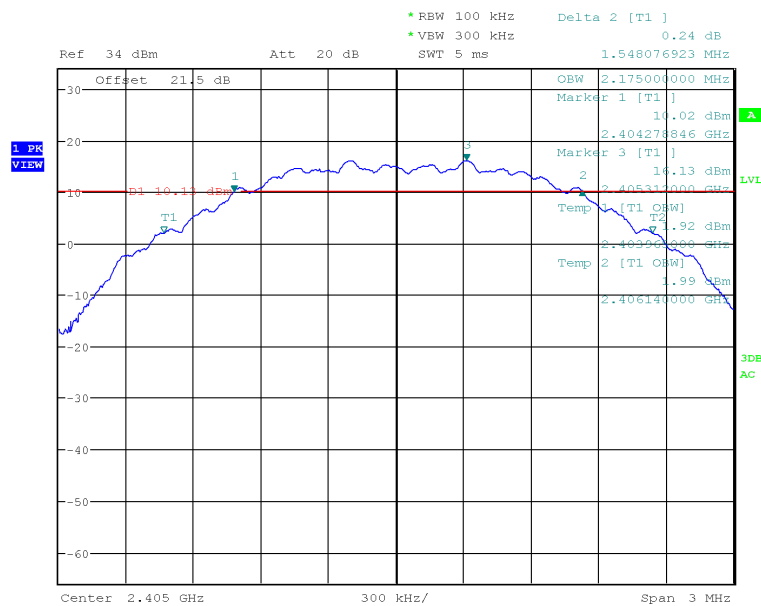
Tested By	Test Date	Results
Arjun Mukherjea	January 21 and 29, 2025	Complies

Plot 1. 1



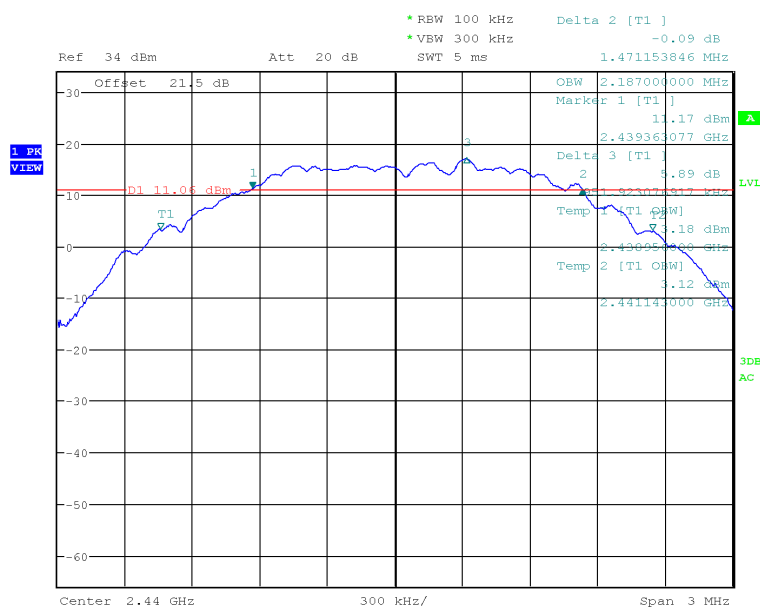
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Plot 1.2



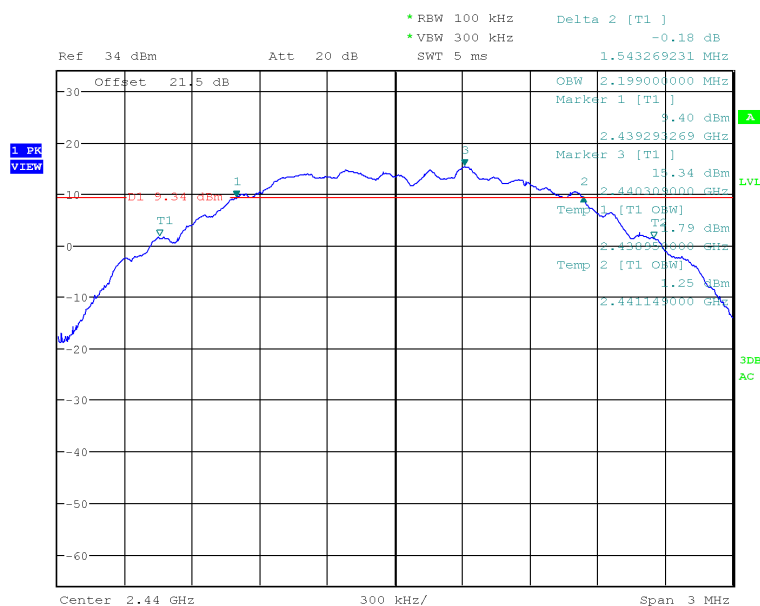
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Plot 1.3



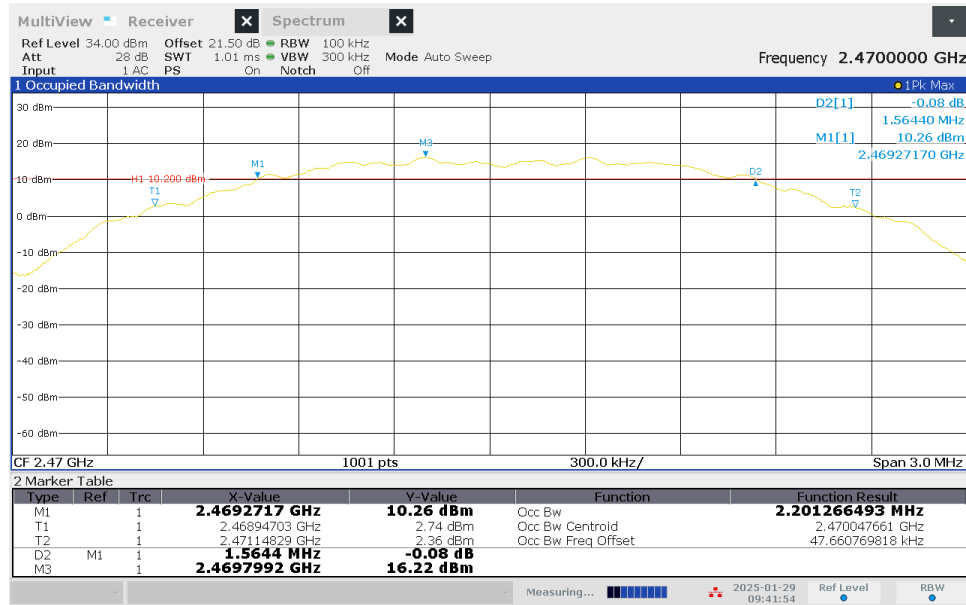
Date: 21.JAN.2025 02:39:52

Plot 1.4



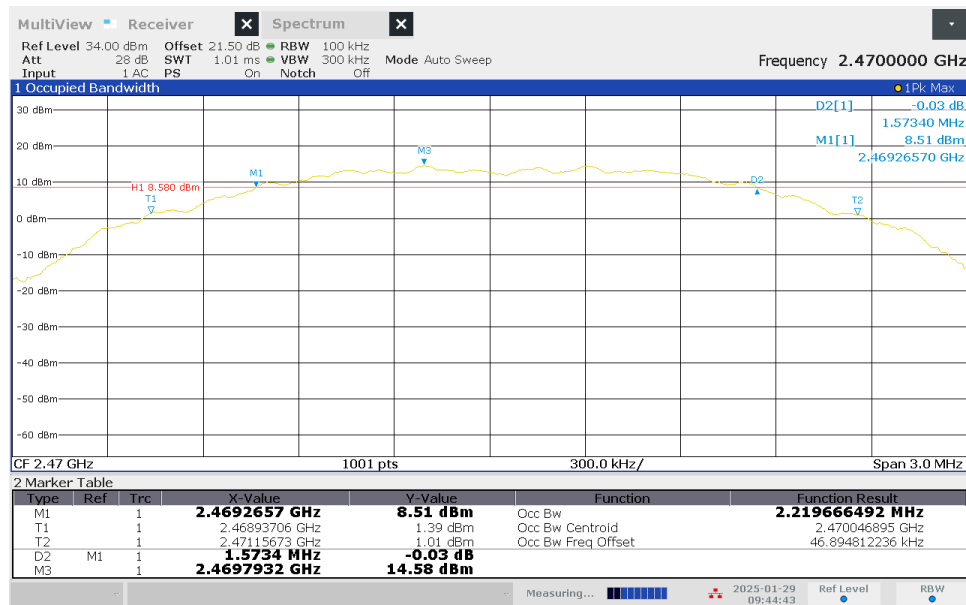
Date: 21.JAN.2025 02:51:14

Plot 1.5



09:41:54 AM 01/29/2025

Plot 1.6



09:44:43 AM 01/29/2025

Results	Complies
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4.2 Maximum Peak Conducted Output Power at Antenna Terminals
FCC Rule: 15.247(b)(3); RSS-247, 6.3.2;

4.2.1 Requirement

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt or 30 dBm. For antennas with gains greater than 6 dBi, transmitter output level must be decreased appropriately, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2.2 Procedure

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02 was used. Specifically, section 11.9.1.1 $RBW \geq DTS$ bandwidth in ANSI c63.10.

1. Set the $RBW \geq DTS$ Bandwidth
2. Set the $VBW \geq 3 \times RBW$
3. Set the span $\geq 3 \times RBW$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max Hold
7. Allow trace to fully stabilize
8. Use peak marker function to determine the peak amplitude level.

A spectrum analyzer was connected to the antenna port of the transmitter.

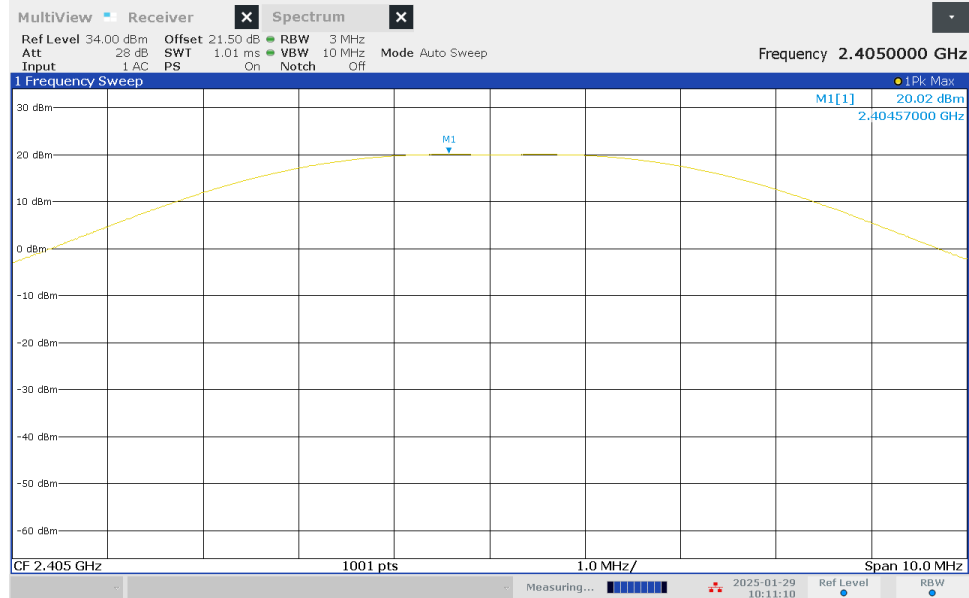
4.2.3 Test Result

Refer to the following plots 2.1 – 2.6 for the test details.

Frequency	Conducted Power (peak)		Limit	EIRP	Limit	Plot
MHz	dBm	W	dBm	W	W	
Primary Antenna						
2405	20.02	0.1005	30	0.1419	4	2.1
2440	19.48	0.0887	30	0.1253	4	2.3
2470	18.67	0.0736	30	0.1040	4	2.5
Secondary Antenna						
2405	18.45	0.0700	30	0.1109	4	2.2
2440	17.90	0.0617	30	0.0977	4	2.4
2470	16.99	0.0500	30	0.0793	4	2.6

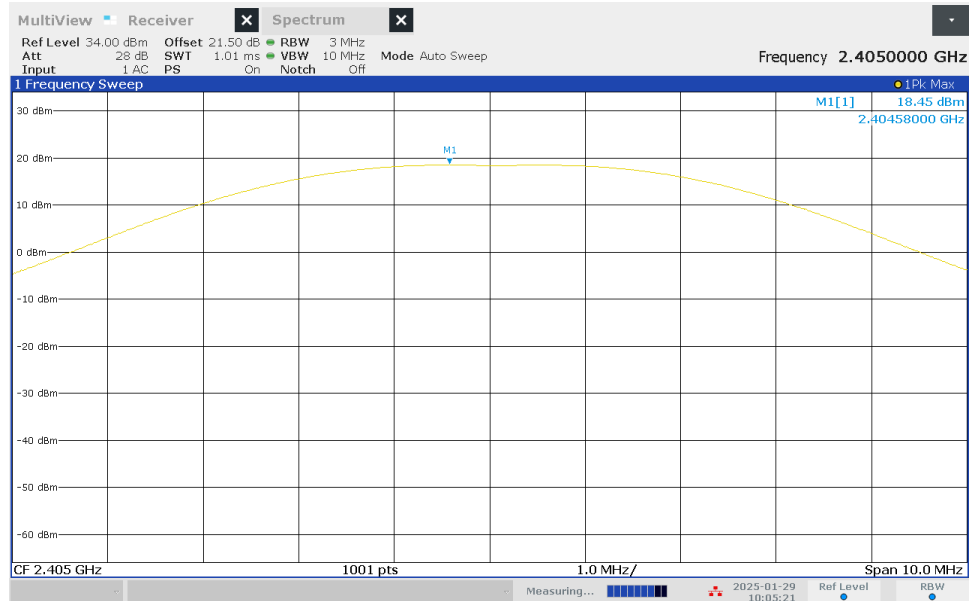
Tested By	Test Date	Results
Arjun Mukherjea	January 29, 2025	Complies

Plot 2.1



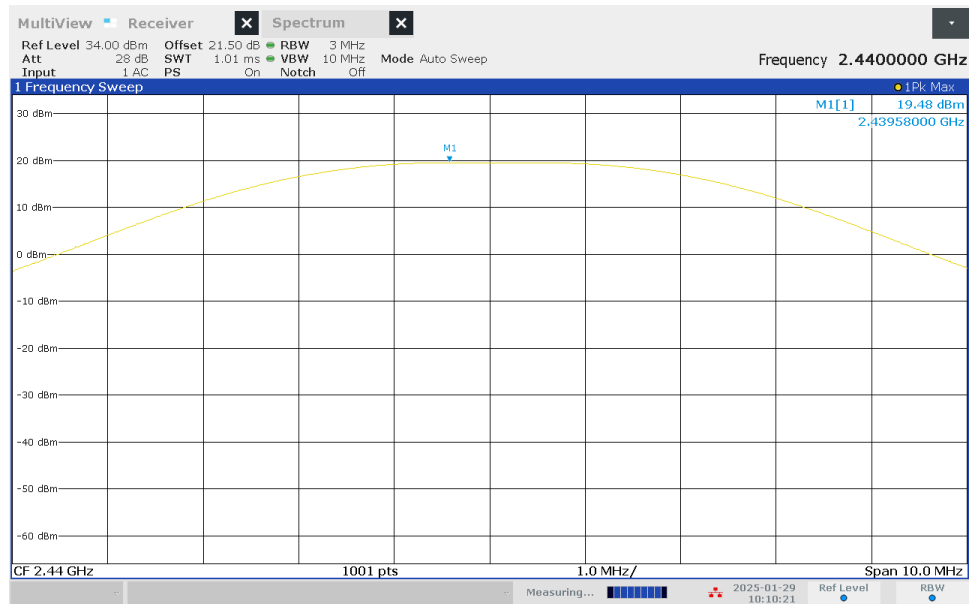
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Plot 2.2



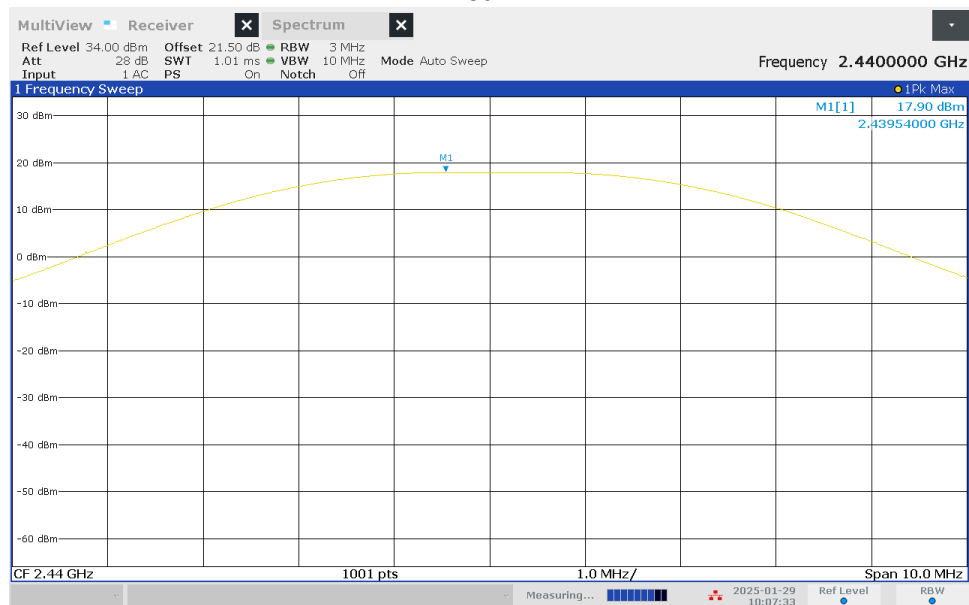
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Plot 2.3



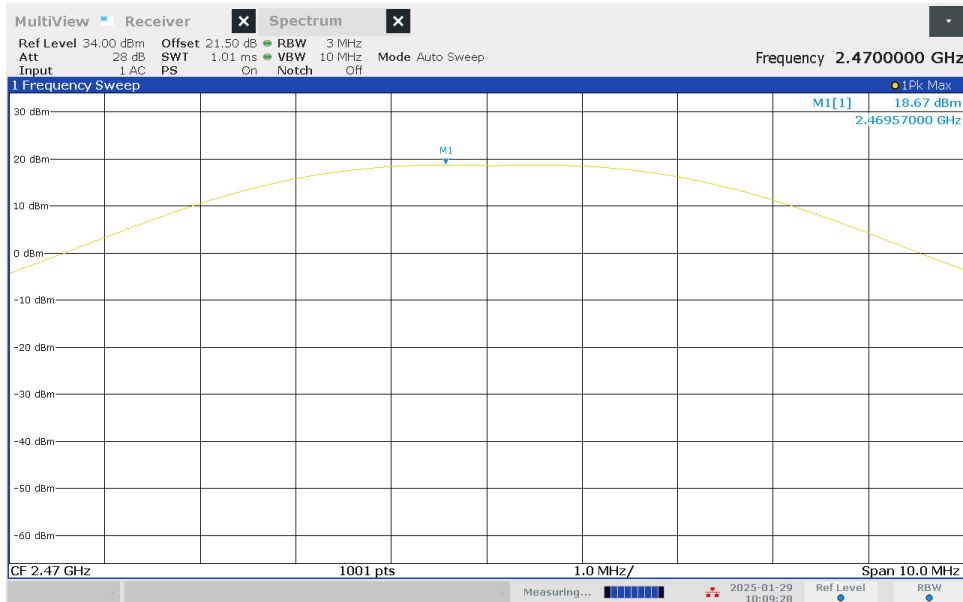
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Plot 2.4



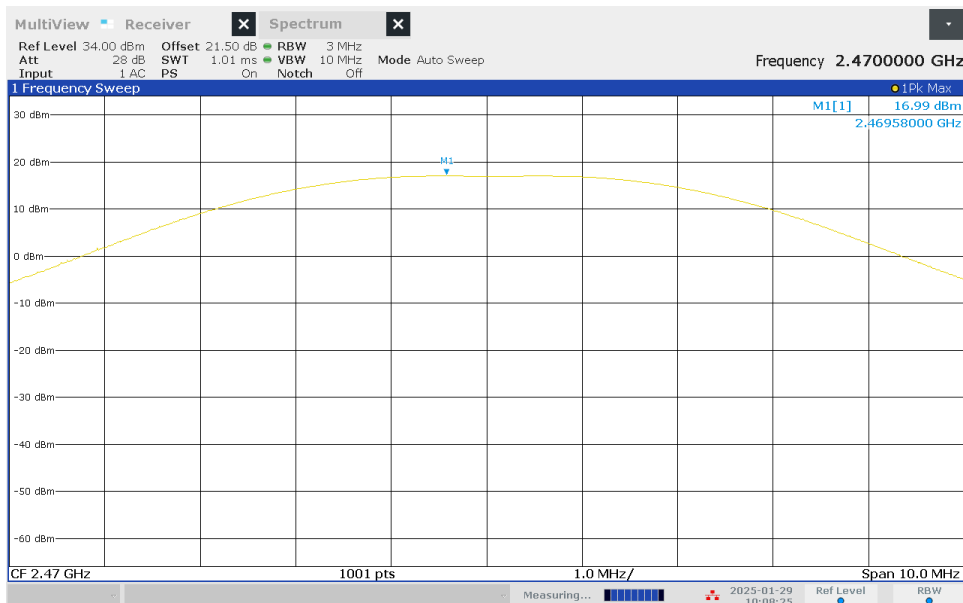
10:07:33 AM 01/29/2025

Plot 2.5



10:09:28 AM 01/29/2025

Plot 2.6



10:08:26 AM 01/29/2025

Complies

4.3 Maximum Power Spectral Density FCC: 15.247 (e); RSS-247, 6.3.1.b;

4.3.1 Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna should not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2 Procedure

A spectrum analyzer was connected to the antenna port of the transmitter.

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02, specifically section 11.10.2 Method PKPSD (peak PSD) of ANSI c63.10.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the *DTS bandwidth*.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

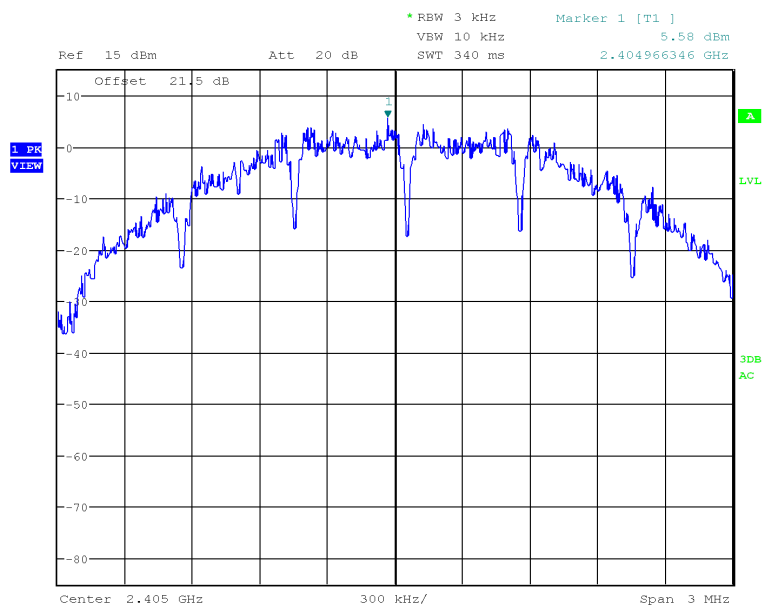
4.3.3 Test Result

Refer to the following plots for the test result

Frequency, MHz	Maximum Power Spectral Density, dBm	Maximum Power Spectral Density Limit, dBm	Margin, dB	Plot
Primary Antenna				
2405	5.58	8.0	-2.42	3.1
2440	4.08	8.0	-3.92	3.3
2470	3.02	8.0	-4.98	3.5
Secondary Antenna				
2405	3.09	8.0	-4.91	3.2
2440	2.97	8.0	-5.03	3.4
2470	1.27	8.0	-6.73	3.6

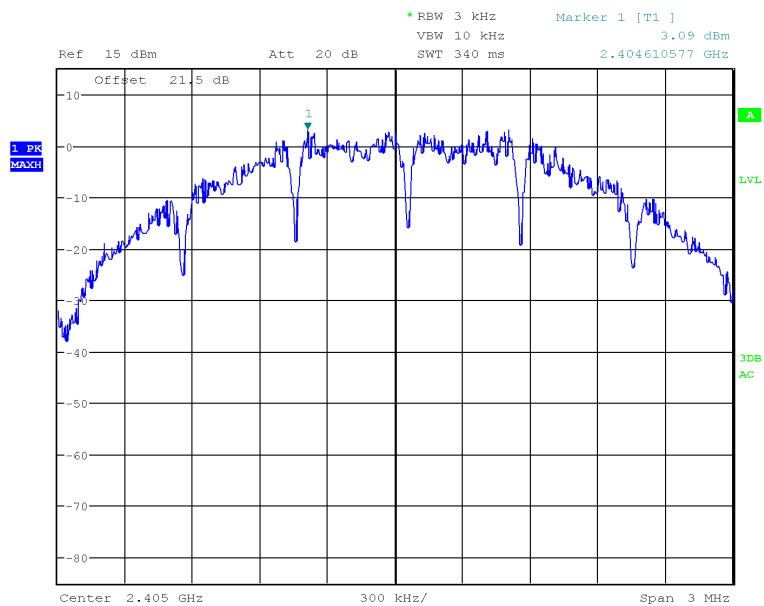
Tested By	Test Date	Results
Arjun Mukherjea	January 21 and 29, 2025	Complies

Plot 3.1



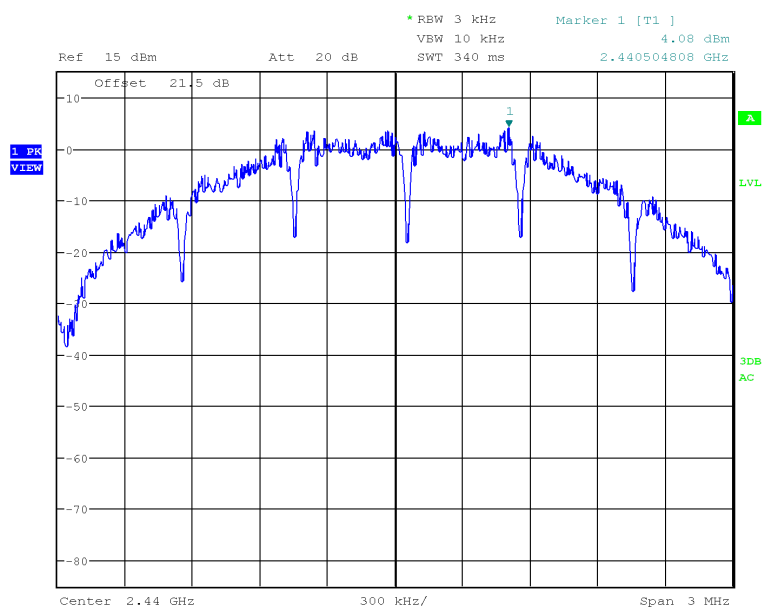
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Plot 3.2



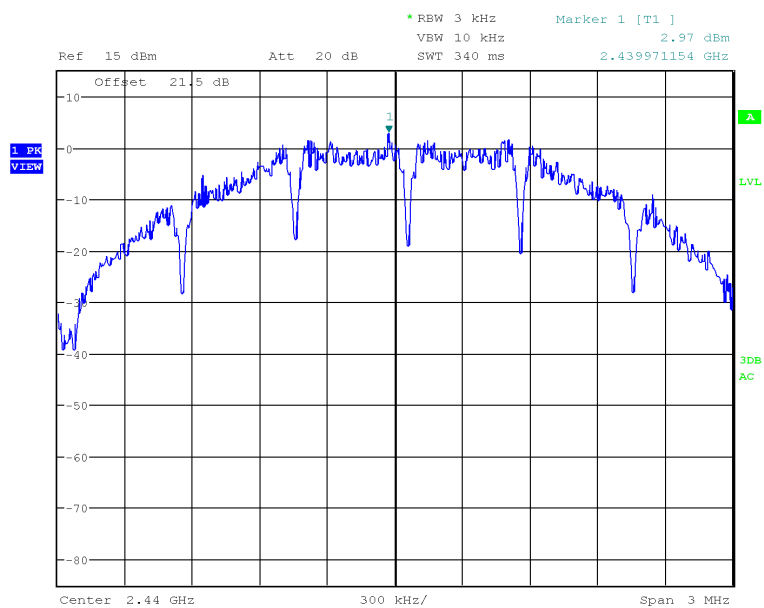
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Plot 3.3



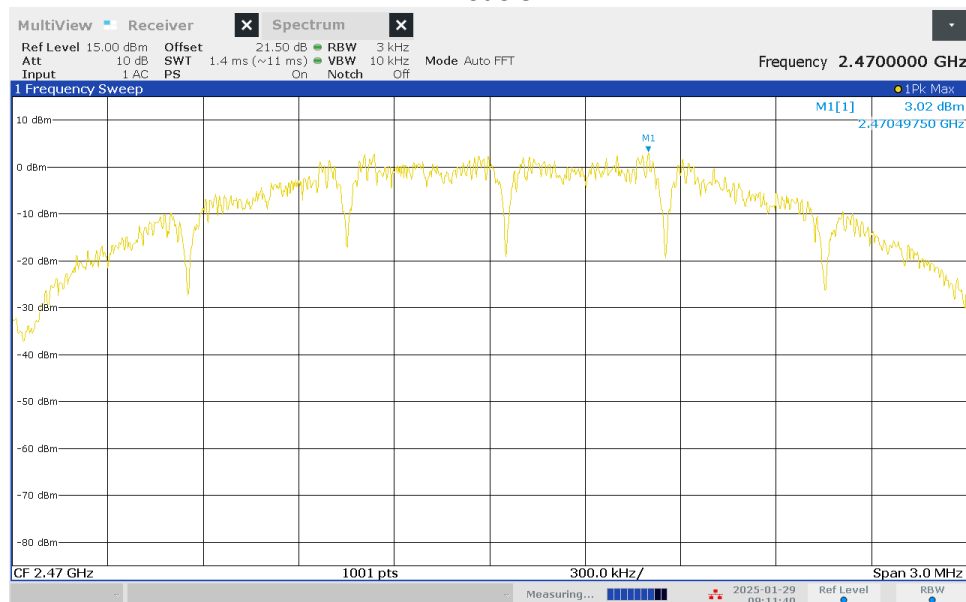
Date: 21.JAN.2025 01:50:01

Plot 3.4



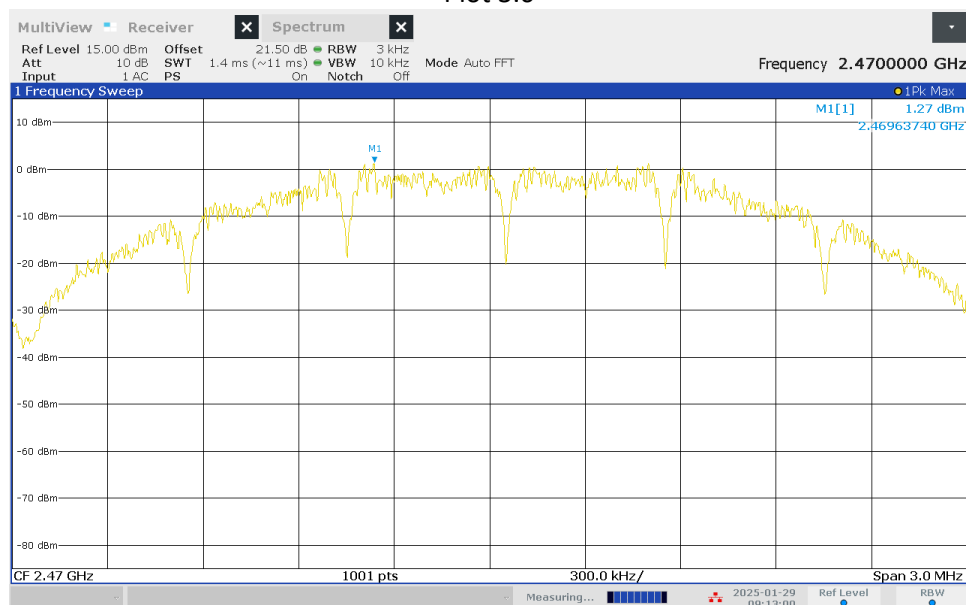
Date: 21.JAN.2025 01:46:01

Plot 3.5



09:11:41 AM 01/29/2025

Plot 3.6



09:13:01 AM 01/29/2025

Results

Complies

4.4 Out of Band Antenna Conducted Emission FCC: 15.247(d); RSS-247, 6.6;

4.4.1 Requirement

In any 100 kHz bandwidth outside the EUT pass-band, the RF power shall be below the maximum in-band 100 kHz emissions by at least 20 dB (if peak power of in-band emission is measured) or 30 dB (if average power of in-band emission is measured).

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

4.4.2 Procedure

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02, specifically section 11.11 DTS Emissions in non-restricted frequency bands of ANSI c63.10.

A spectrum analyzer was connected to the antenna port of the transmitter.

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq 3 \times$ RBW.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

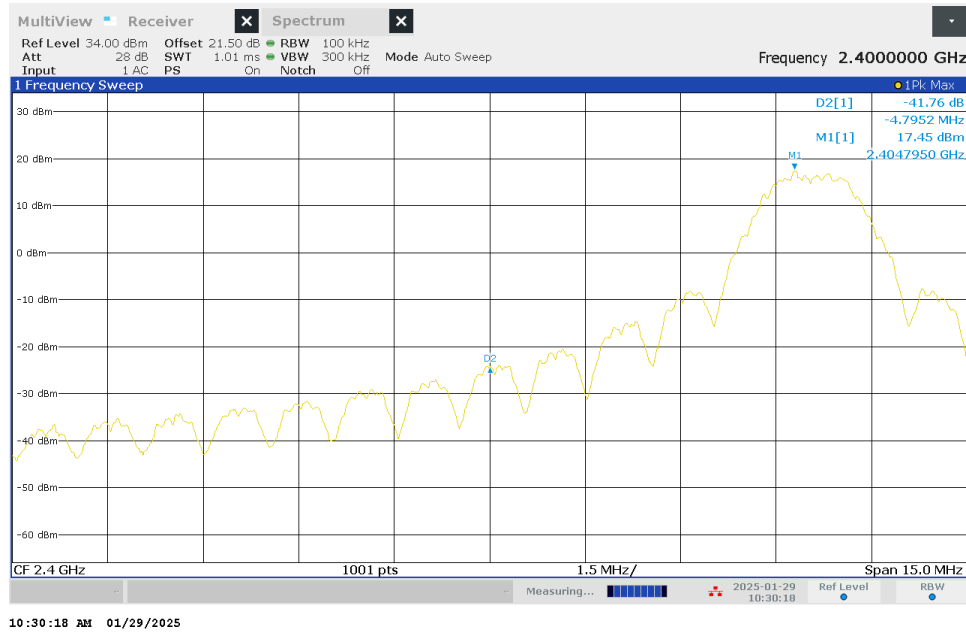
The unwanted emissions were measured from 30 MHz to 25 GHz. Plots below are corrected for cable loss and then compared to the limits.

4.4.3 Test Result

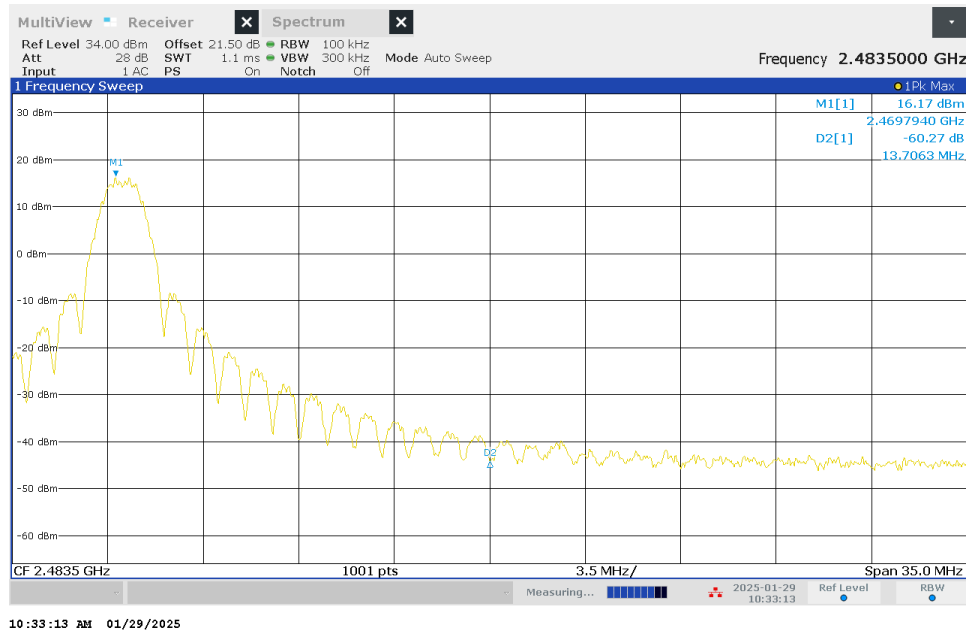
Refer to the following plots 4.1 – 4.10 for unwanted conducted emissions. The plot shows -20dB attenuation limit line.

Tested By	Test Date	Results
Arjun Mukherjea	January 29, 2025	Complies

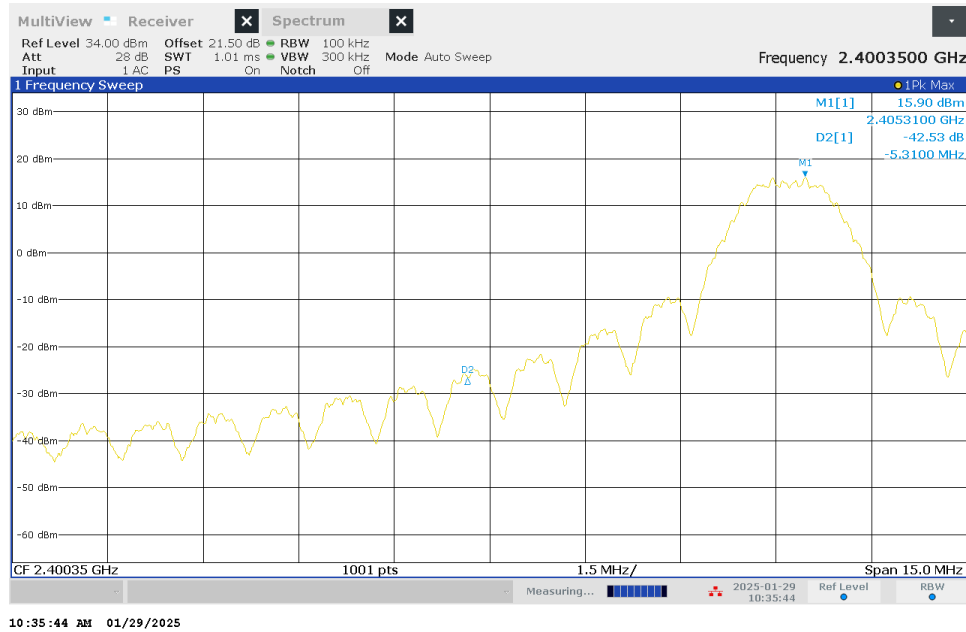
Antenna 1 Tx @ Low Channel, 2400 MHz Band Edge Plot 4.1



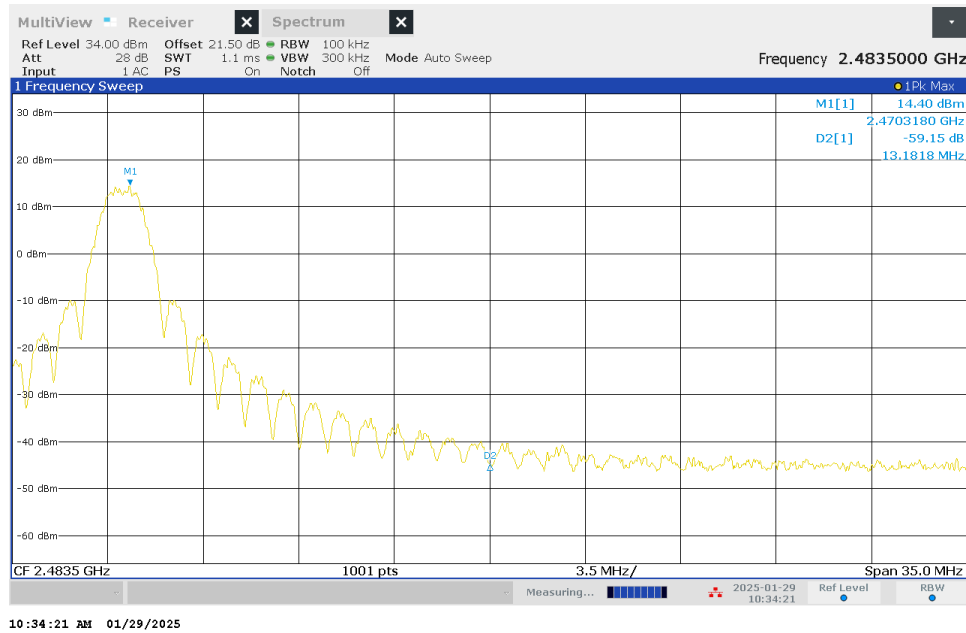
Antenna 1 Tx @ High Channel, 2483.5 MHz Band Edge Plot 4.2



Antenna 2 Tx @ Low Channel, 2400 MHz Band Edge Plot 4.3



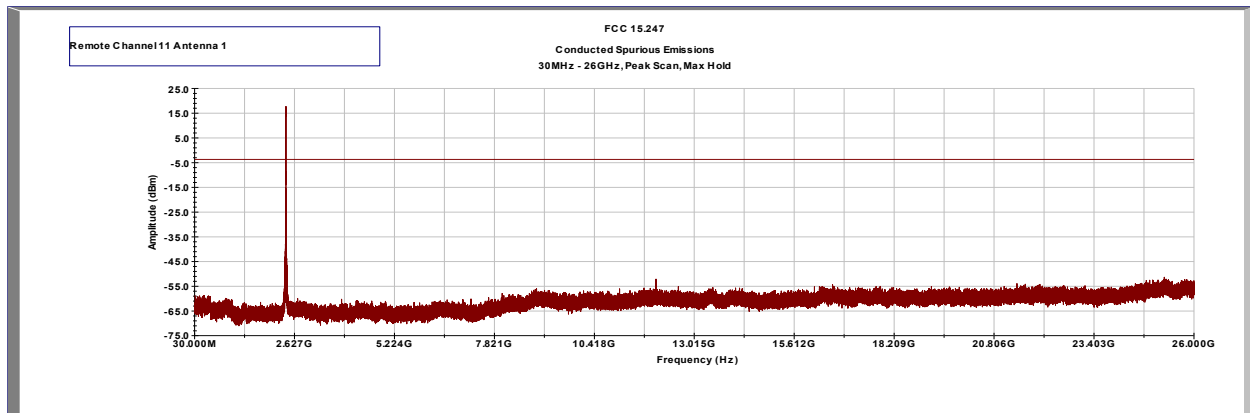
Antenna 2 Tx @ Low Channel, 2483.5 MHz Band Edge Plot 4.4



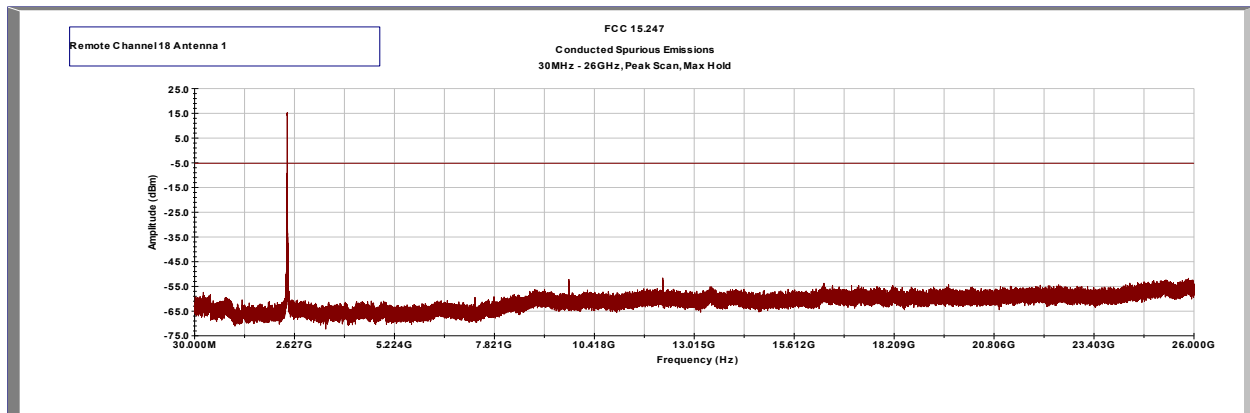
Results

Complies

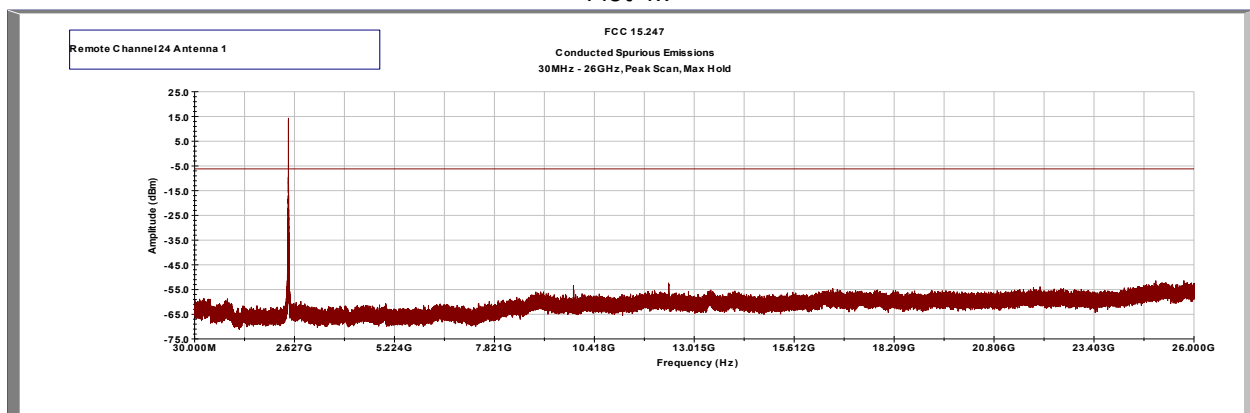
Primary Antenna, Tx @ Low Channel, 2405 MHz
30MHz -26GHz Conducted Spurious
Plot 4.5



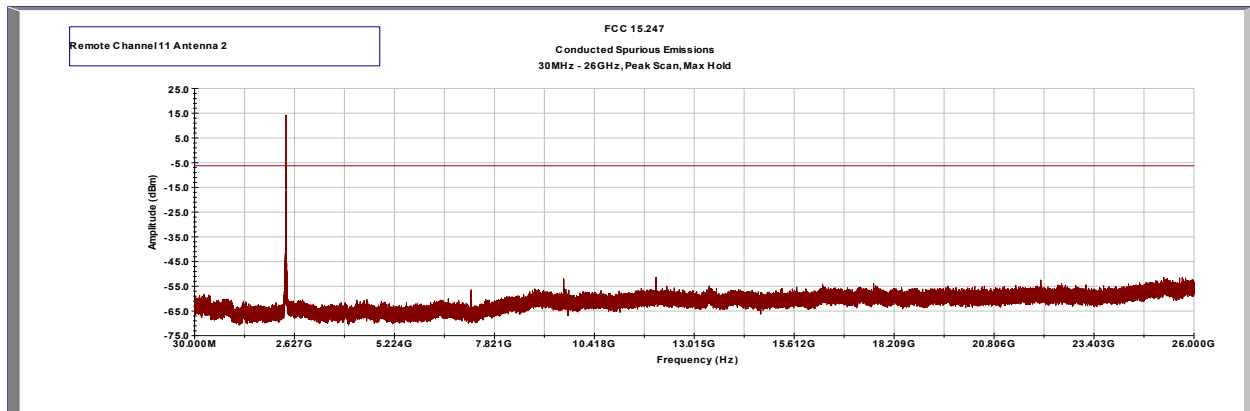
Primary Antenna, Tx @ Mid Channel, 2440 MHz
30MHz -26GHz Conducted Spurious
Plot 4.6



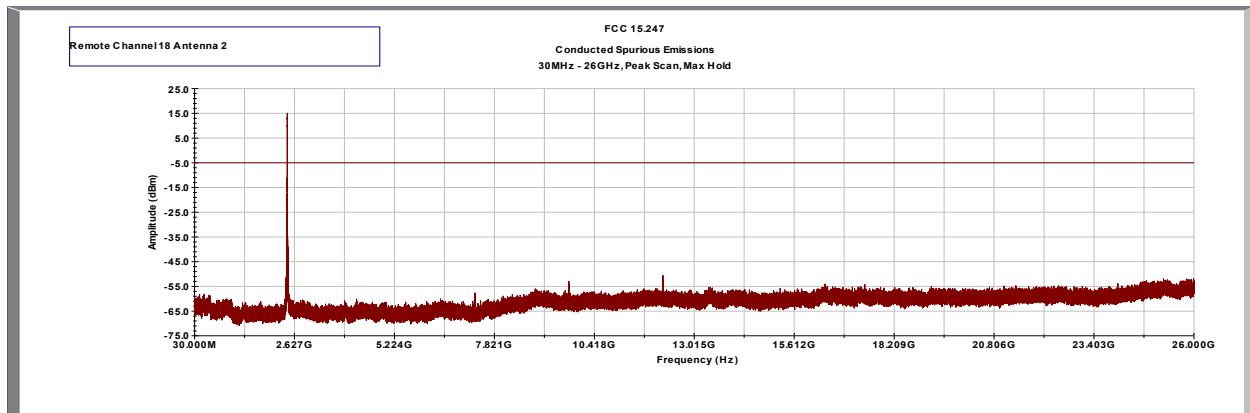
Primary Antenna, Tx @ High Channel, 2470 MHz
30MHz -26GHz Conducted Spurious
Plot 4.7



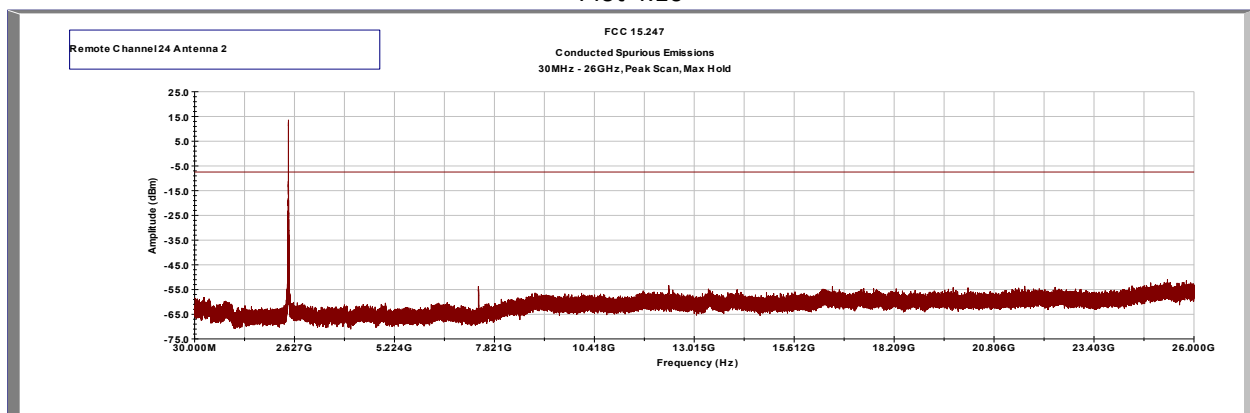
Secondary Antenna, Tx @ Low Channel, 2405 MHz
30MHz -26GHz Conducted Spurious
Plot 4.8



Secondary Antenna, Tx @ Mid Channel, 2440 MHz
30MHz -26GHz Conducted Spurious
Plot 4.9



Secondary Antenna, Tx @ High Channel, 2470 MHz
30MHz -26GHz Conducted Spurious
Plot 4.10



Results

Complies

4.5 Transmitter Radiated Emissions FCC Rules: 15.247(d), 15.209, 15.205; RSS-247, 6.6;

4.5.1 Requirement

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

For out of band radiated emissions (except for frequencies in restricted bands), in any 100 kHz bandwidths outside the EUT pass-band, the RF power shall be at least 20dB (peak) or 30 dB (average) below that of the maximum in-band 100 kHz emissions.

4.5.2 Procedure

Radiated emission measurements were performed from 9 kHz to 26.5 GHz according to the procedure described in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. Spectrum Analyzer Resolution Bandwidth is 200Hz or greater for frequencies 9kHz to 30MHz, 100 kHz or greater for frequencies 30 MHz to 1000 MHz, 1 MHz for frequencies above 1000 MHz. Above 1000 MHz Peak and Average measurements were performed.

The EUT is placed on a plastic turntable that is 80 cm in height for below 1000MHz and 1.5m in height for above 1GHz. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 meters for frequencies above 1 GHz and at 10 meters for frequencies below 1 GHz.

Measurements made from 1 GHz to 18GHz had a 2.4-2.5GHz notch filter in place. A preamp was used from 9kHz to 26.5GHz.

All measurements were made with a Peak Detector and compared to QP limits for 30MHz – 1GHz and Average limits for 1GHz – 26.5GHz.

Correlation measurements were performed below 30MHz between 10m ALSE and Open Field site according to FCC KDB 414788 D01 Radiated Test Site v01r01 section 2. All readings were within the acceptable tolerance.

4.5.3 Field Strength Calculation

Field Strength 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:

$FS = RA + AF + CF - AG$; if measurement is performed at a distance other than specified in the rule, a Distance Correction Factor (DCF) shall be added.

Where FS = Field Strength in dB(μ V/m)

RA = Receiver Amplitude (including preamplifier) in dB(μ V); AF = Antenna Factor in dB(1/m)

CF = Cable Attenuation Factor in dB; AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(μ V) is obtained. The antennas factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving 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(1/m)

CF = 1.6 dB

AG = 29.0 dB

$FS = 52.0 + 7.4 + 1.6 - 29.0 = 32$ dB(μ V/m).

Level in μ V/m = Common Antilogarithm [(32 dB μ V/m)/20] = 39.8 μ V/m.

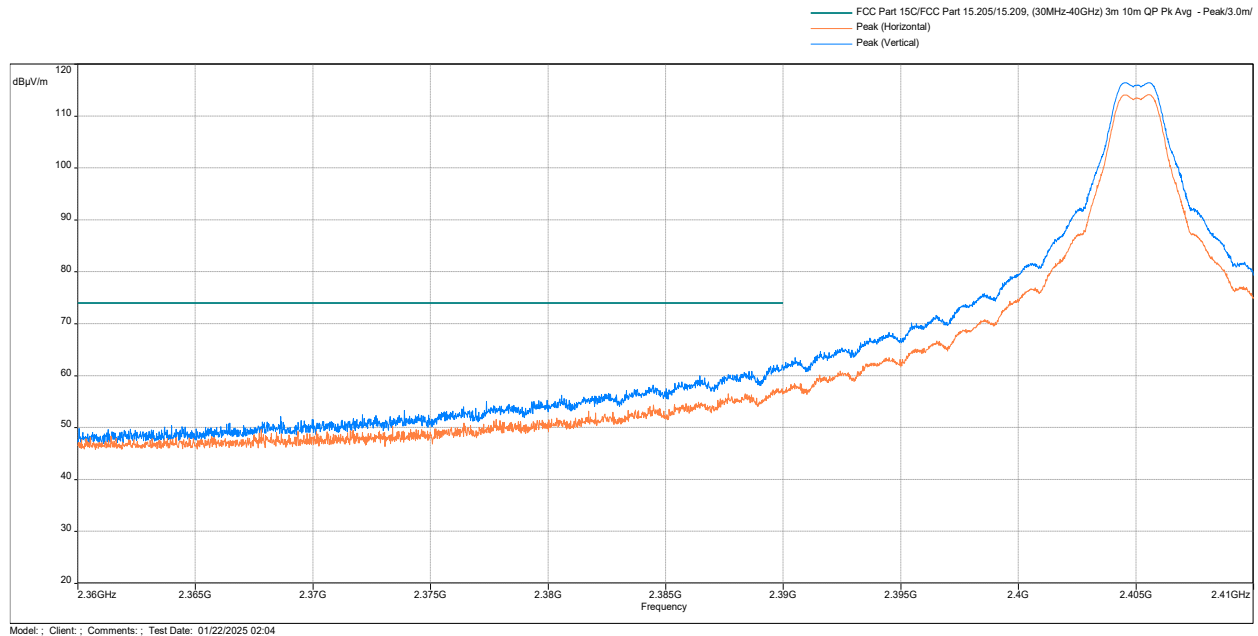
4.5.4 Test Results

All testing in this section were performed by radiated measurements.

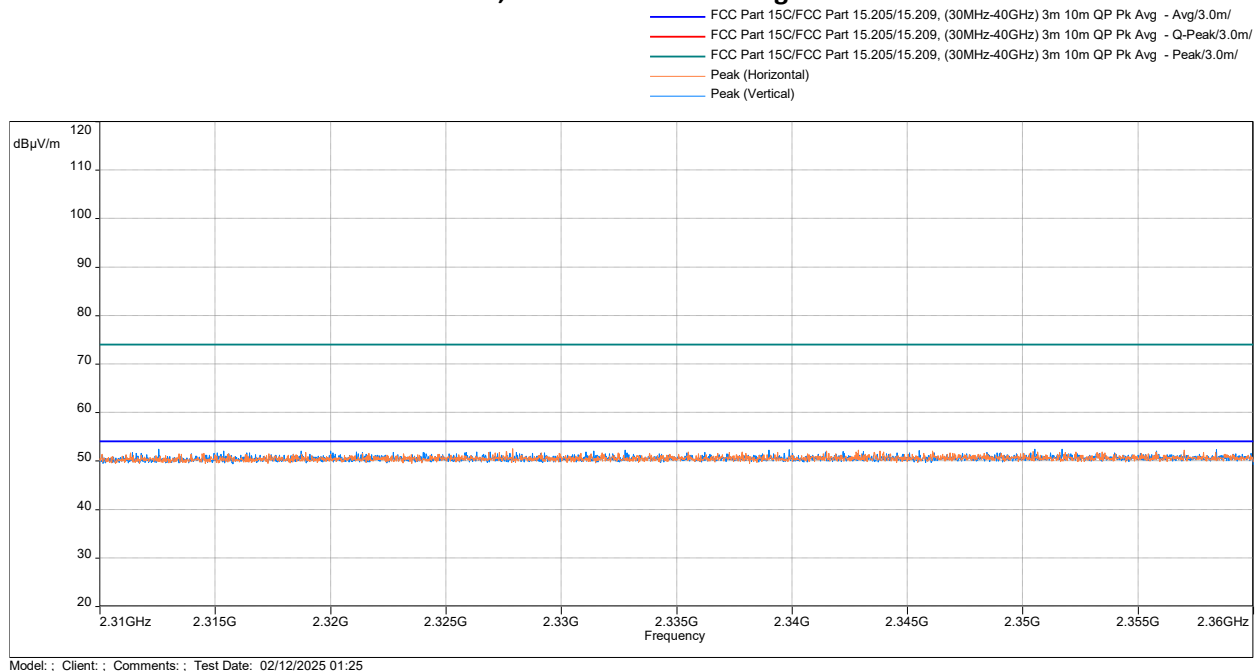
Tested By	Test Date	Results
Arjun Mukherjea	January 22 – 29, 2025	Complies

Test Results: 15.209/15.205 Radiated Restricted Band Emissions

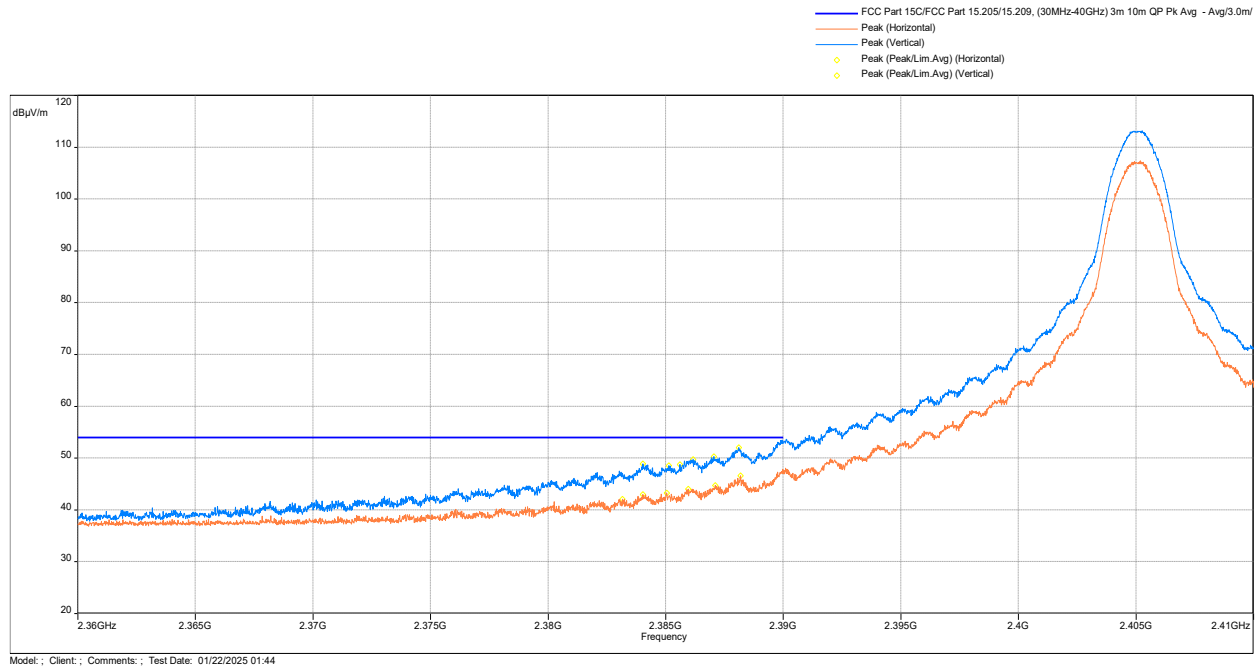
Primary Antenna Out-of-Band Radiated spurious emissions at the Band-edge @3m distance 2360–2390 MHz, Peak Scan with Peak Limit



Out-of-Band Radiated spurious emissions at the Band-edge @3m distance 2310–2360 MHz, Peak Scan with Average & Peak Limit

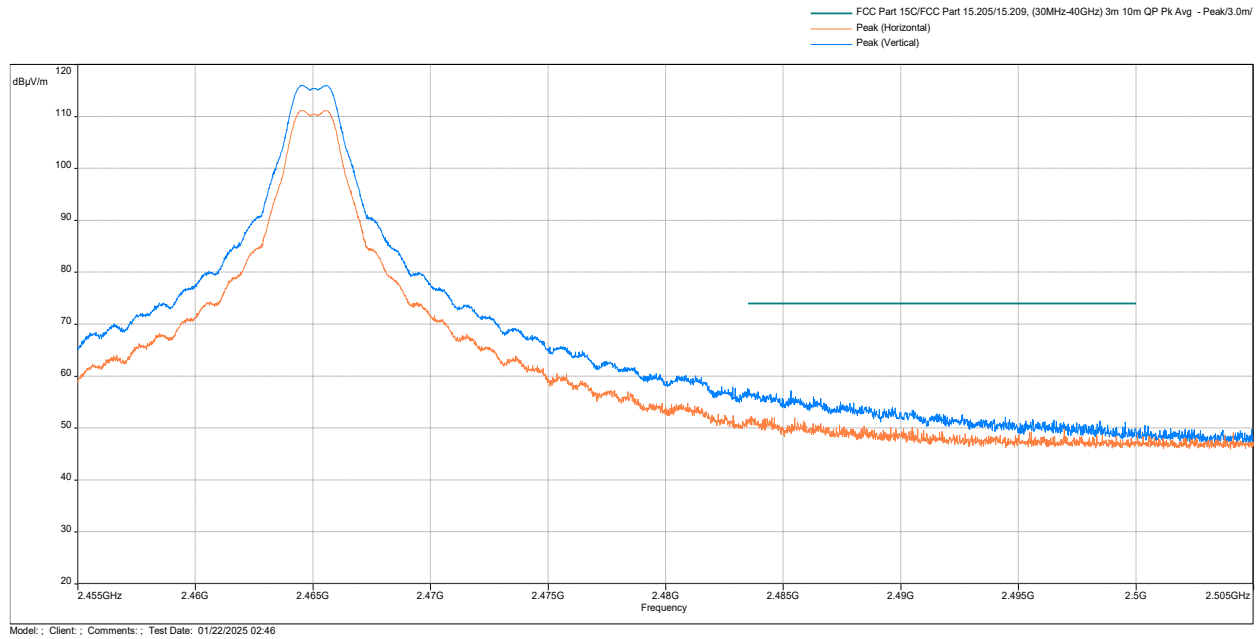


Primary Antenna
Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
2360–2390 MHz, Average Scan with Average Limit

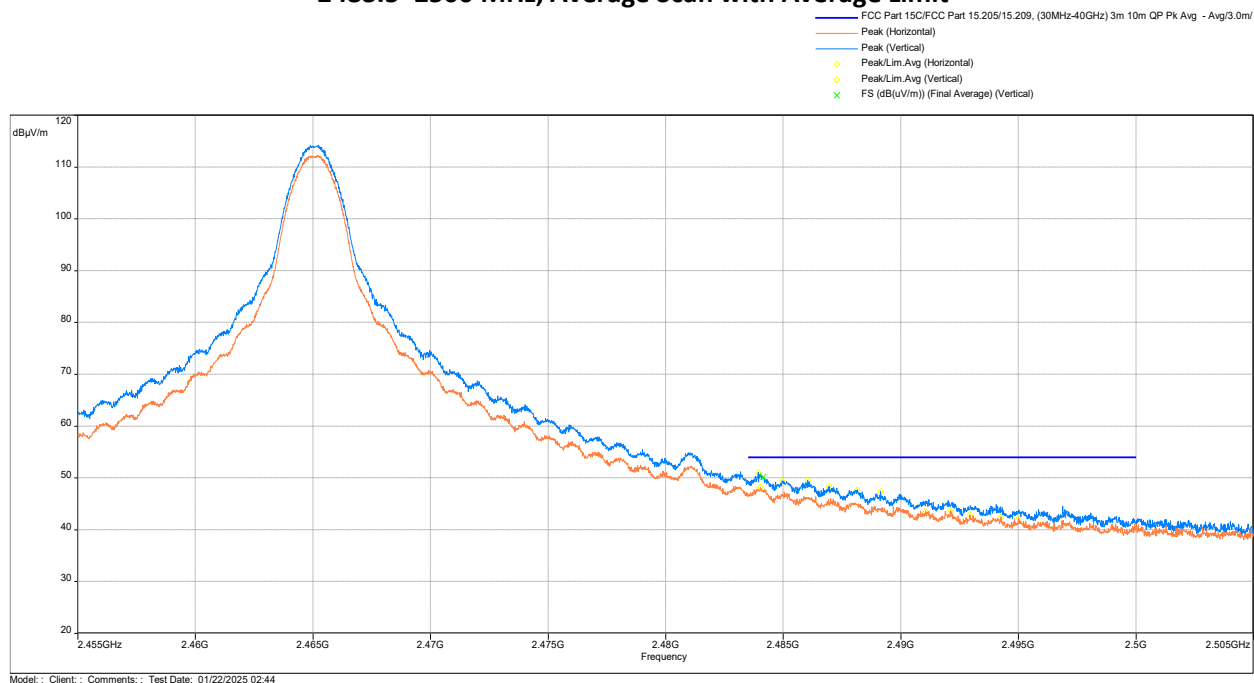


Frequency (MHz)	FS (dB(uV/m))	Ave Limit (dB(uV/m))	Ave Margin (dB)	Azimuth (deg)	Height (m)	Polarity	Peak Reading (dBuV)	RA (dBuV)	Correction (dB)
2390	47.67	54	-6.33	5	1.68	Vertical	56.68	25.75	21.91

Primary Antenna
Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
2483.5–2500 MHz, Peak Scan with Peak Limit



Primary Antenna
Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
2483.5–2500 MHz, Average Scan with Average Limit



Frequency (MHz)	FS (dB(uV/m))	Ave Limit (dB(uV/m))	Ave Margin (dB)	Azimuth (deg)	Height (m)	Polarity	Peak Reading (dBuV)	RA (dBuV)	Correction (dB)
2484.142	50.19	54	-3.81	326.25	1.1	Vertical	59.94	28.26	21.94