TEST REPORT

Report Number: 16148856-E2V2

Applicant	:	ENERGOUS CORPORATION 3590 NORTH FIRST STREET, SUITE 330, SAN JOSE, CA 95134, U.S.A.
Model	:	YND-PBP+
Brand	:	Energous
FCC ID	:	2ADNG-YND-GW
EUT Description	:	WIRELESS CHARGER
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C

Date Of Issue:
2026-07-02

Prepared by:
UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 319-4000

ACCREDITED
CERT #0751.05

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-01-28	Initial Issue	---
V2	2026-07-02	Revised Section 3	Tina Chu

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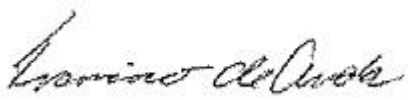
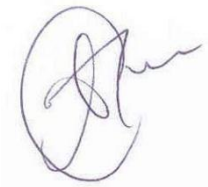
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	Energous Corporation 3590 North First Street, Suite 330, San Jose, CA 95134, U.S.A.
Model	YND-PBP+
Brand	Energous
FCC ID	2ADNG-YND-GW
EUT Description	Wireless Charger
Serial Number	Conducted: 4F4FE2DC042B Radiated: 4F4FE2DC042B
Sample Receipt Date	2025-12-23
Date Tested	2025-12-23 to 2026-01-12
Applicable Standards	FCC 47 CFR Part 15 Subpart C
Test Results	COMPLIES

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the sample tested, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc., and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released By:	Reviewed By:	Prepared By:
		
Francisco de Anda Staff Engineer UL Verification Services Inc.	Tina Chu Senior Project Engineer UL Verification Services Inc..	Jasdeep Madar Laboratory Engineer UL Verification Services Inc.

2. TEST RESULTS SUMMARY

This report contains data provided by the customer, which can impact on the validity of the results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Result
Duty Cycle	-	Reporting purposes only
99% OBW	-	Reporting purposes only
6dB BW	15.247 (a) (2)	Complies
Output Power	15.247 (b) (3)	Complies
PSD	15.247 (e)	Complies
Conducted Spurious Emissions	15.247 (d)	Complies
Radiated Emissions	15.209, 15.205	Complies
AC Mains Conducted Emissions	15.207	Complies

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:
- ANSI/USEMCSC C63.10-2020/Cor 1-2023 (FCC)
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- KDB 558074 D01 15.247 Meas Guidance
- KDB 414788 D01 Radiated Test Site

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

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5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated regularly, with a maximum time between calibrations of one year or the manufacturer's recommendation, whichever is less, and where applicable, are traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{LAB}
Conducted Antenna Port Emission Measurement	1.94 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using a Power Meter	0.45 dB (Ave), 1.30 dB Peak)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22 %
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

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6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is an over-the-air, distance-charging transmitter with WPT, BLE, and 802.11bgn HT20/H40 SISO capabilities. The wireless charger transmits power via a 52-tone frequency hopping signal in the 907MHz-920MHz range and charges multiple receivers simultaneously. The EUT uses BLE to communicate with a client device and 2.4 GHz Wi-Fi for data transmission. The EUT can be powered via 12W USB-C or PoE.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	BLE 1Mbps	17.21	52.60

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna gain(s), type, and cable loss, as provided by the manufacturer, are as follows:

The radio utilizes a dual-polarized patch antenna with a maximum gain of 7.50 dBi per chain, and with a cable loss of 1.30dB.

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was direct_test_mode_pca10056.

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6.5. WORST-CASE CONFIGURATION AND MODE

EUT is a wall or ceiling-mounted device; the fundamental of the EUT was investigated in three orthogonal orientations, X, Y, Z. It was determined that Z-Portrait orientation was the worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z-Portrait orientation.

EUT supports 2 input power methods: Power over Ethernet (PoE) or USB. These modes were investigated to determine the worst case. It was determined that USB mode was the worst case. Therefore, all final radiated testing was performed with EUT powered via USB.

AC Line emissions were performed on Power over Ethernet (PoE) and USB input power methods, with the worst-case channel.

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed with the EUT set to transmit at the channel with the highest output power as a worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle, and high channels.

BLE supports MIMO and SISO transmit; full testing was performed on MIMO to cover SISO.

Data rate provided by the client was BLE mode,1Mbps

Plots included in the report are representative of the method and settings parameters used for the test.

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6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID/ DoC**
EUT AC/DC Adapter	HDP	HDP12-MD05024U	N/A	DoC
PoE Ethernet Switch	Netgear	GS305PP	N/A	DoC
PoE Ethernet Switch AC/DC Adapter	Netgear	2ABP090S	N/A	DoC
Laptop	Dell	Precision 5520	FK7QHM2	DoC
Laptop power supply	Dell	HA130PM130	CN-0V363H-CH200-84A-03QN-A01	DoC
C and A Dual Flash Drive	MOSDART	MOSTDART_FLASH_DRIVE_64GB	N/A	DoC

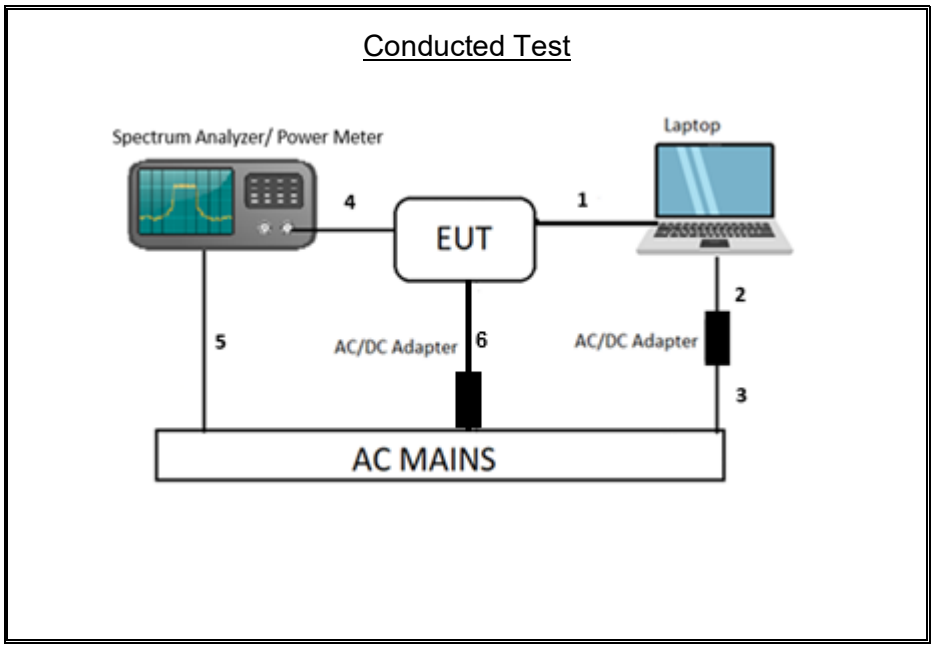
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	USB	1	UART	Shielded	1.5	EUT to Laptop
2	DC	1	barrel	Shielded	1.5	AC/DC Adapter to Laptop
3	AC	1	2-Prong	Un-shielded	1	AC Mains to AC/DC Adapter
4	Antenna	1	SMA	Shielded	0.1	To spectrum analyzer
5	AC	1	3-Prong	Un-shielded	1.5	Spectrum to AC outlet
6	USB-C	1	USB-C	Shielded	<3m	EUT to AC/DC adapter

I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	**Port**	**# of Identical Ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	USB-C	1	USB-C	Shielded	<3m	EUT to AC/DC adapter
2	Ethernet	1	RJ45	Un-shielded	>3m	EUT to switch
3	AC	1	3-Prong	Un-shielded	<3m	
4	DC	1	barrel	Shielded	>3m	

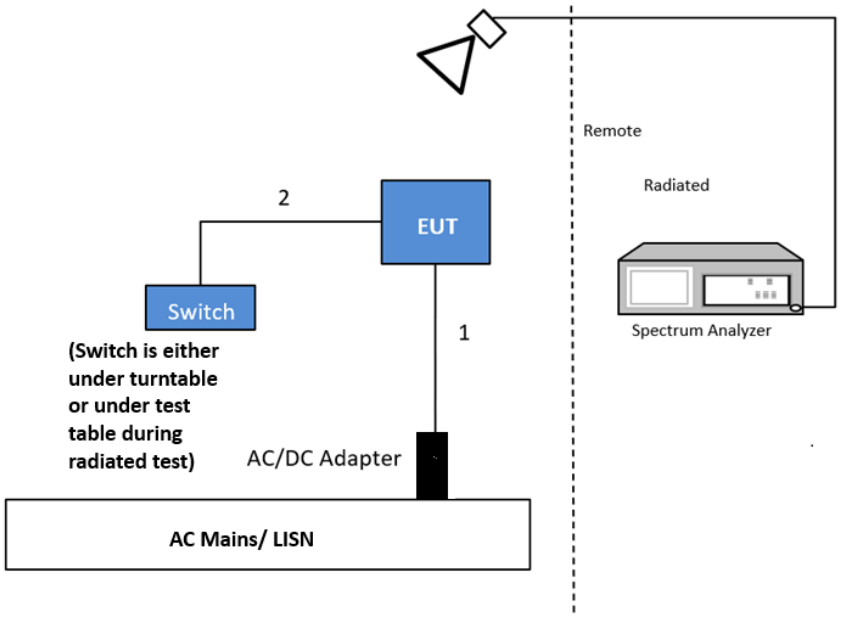
TEST SETUP

The EUT was tested as below block diagram. Test software exercised the EUT. Laptop was removed from chamber during radiated test.

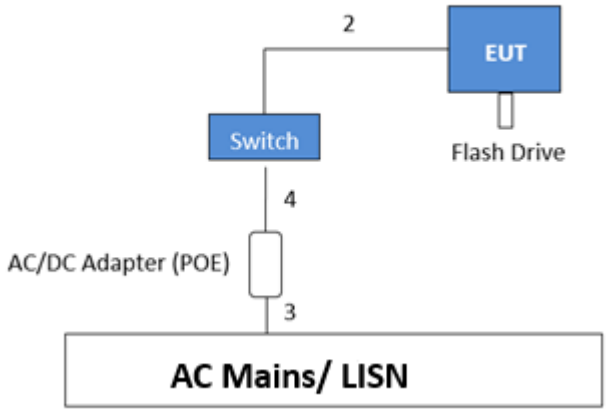
SETUP DIAGRAMS



Radiated/AC Power Line Test (USB-C)



AC Power Line Test (POE)



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7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81140	2027-05-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	UL-FR1	AMP18G26.5-60	215705	2026-10-31
EMI Test Receiver	Rohde & Schwarz	ESW44	225688	2026-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	2026-06-30
RF Filter Box, 1-18GHz	UL-FR1	Silver Box	PRE0181597	2026-03-31
Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	219910	2026-08-31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	219908	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	203089	2027-04-30
Link File, 9KHz-1GHz Port 0 Factors	UL-FR1	Port 0 Factors	211062	2026-03-31
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2026-02-28
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	252765	Verified
P-Series Power Meter	Keysight Technologies Inc	N1912A-CFG003	259286	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257703	2026-03-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	N9030A	Keysight Technologies Inc	80396	2026-01-31
AC Line Conducted				
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31
EMI TEST RECEIVER	Rohde & Schwarz	ESR3	171646	2026-02-28
Transient Limiter	TE	TBFL1	207996	2026-12-30
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Rev 9.5, 25 Aug, 2025	
Conducted Software	UL	UL EMC	2024.2.23	
AC Line Conducted Software	UL	UL EMC	Rev 9.5, 25 Aug, 2025	

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8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

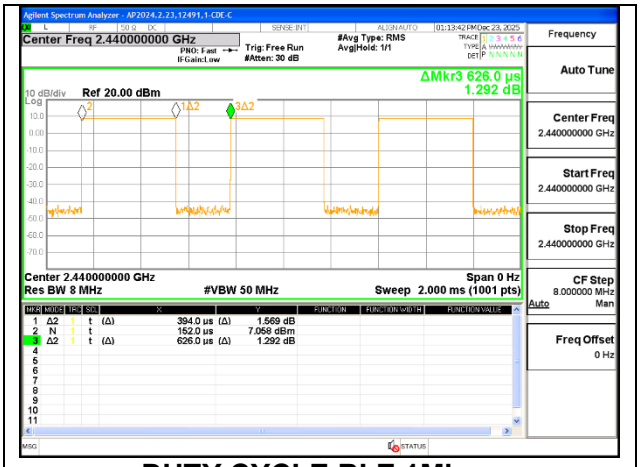
None; for reporting purposes only.

TEST PROCEDURE

ANSI C63.10, Subclause 11.6: Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
BLE 1Mbps	0.394	0.626	0.629	62.94	2.01	2.538



DUTY CYCLE BLE 1Mbps

8.2. 99% BANDWIDTH

LIMITS

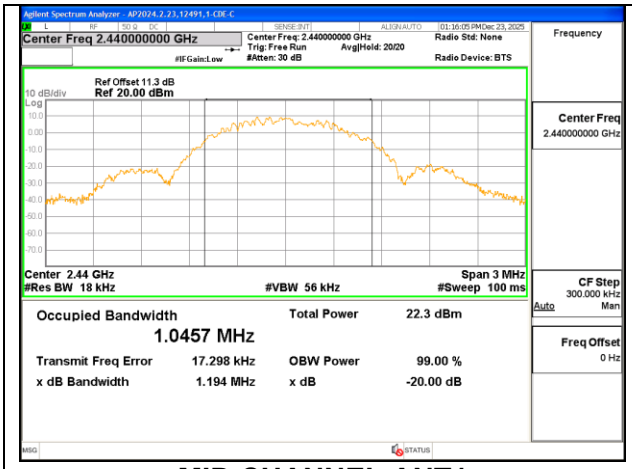
None; for reporting purposes only.

TEST PROCEDURE

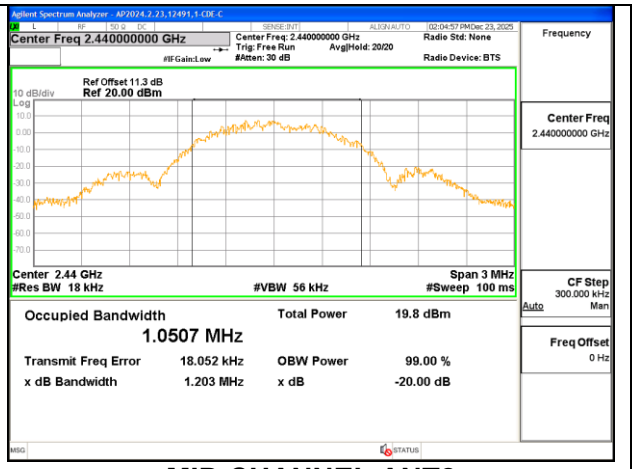
ANSI C63.10, Subclause - 6.9.3

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)	
		Antenna 1	Antenna 2
Low	2402	1.0480	1.0475
Mid	2440	1.0457	1.0507
High	2480	1.0495	1.0485



MID CHANNEL ANT1



MID CHANNEL ANT2

8.3. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

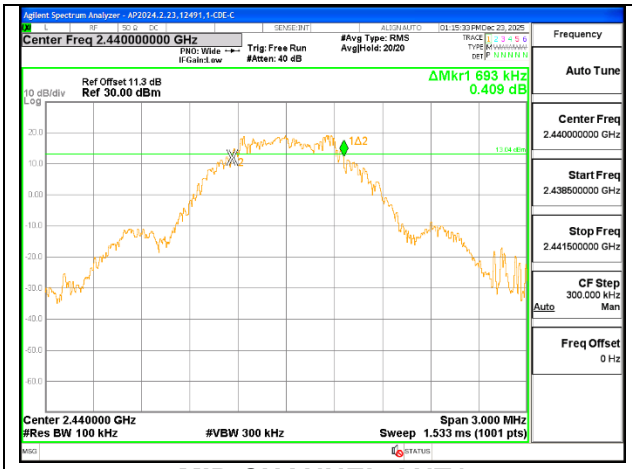
The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

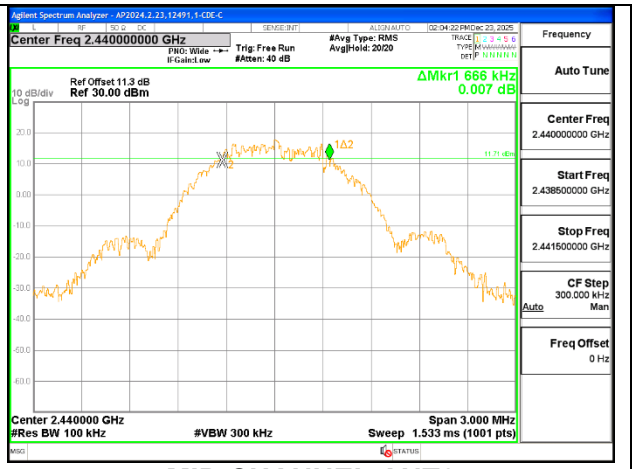
ANSI C63.10 Subclause - 11.8.1 Option 1

RESULTS

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
		Antenna 1	Antenna 2	
Low	2402	.666	.687	0.5
Mid	2440	.693	.666	0.5
High	2480	.714	.675	0.5



MID CHANNEL ANT1



MID CHANNEL ANT2

8.4. OUTPUT POWER AND POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (b) (3) & (e)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

The maximum antenna gain is 7.5 dBi, which is 1.5 dBi greater than the 6 dBi requirement; therefore, the output power limit is reduced from 30 dBm to 28.5dBm; PSD power limit is reduced from 8dBm/3kHz to 6.5dBm/3kHz.

TEST PROCEDURE

Conducted Output Power: ANSI C63.10 Subclause - 11.9.1.2 Method PKPM1 (Peak-reading power meter)

Power Spectral Density: ANSI C63.10 Subclause - 11.10.2 Method PKPSD (peak PSD)

DIRECTIONAL ANTENNA GAIN

For 2TX:

ANSI C63.10, section 14.6.3.2.2 Cross-polarized antennas with $N_{ANT} = 2$
In the case of a transmitter with only two outputs driving antennas that are cross-polarized (e.g., vertical and horizontal, or left-circular and right-circular), directional gain is the gain of an individual antenna.

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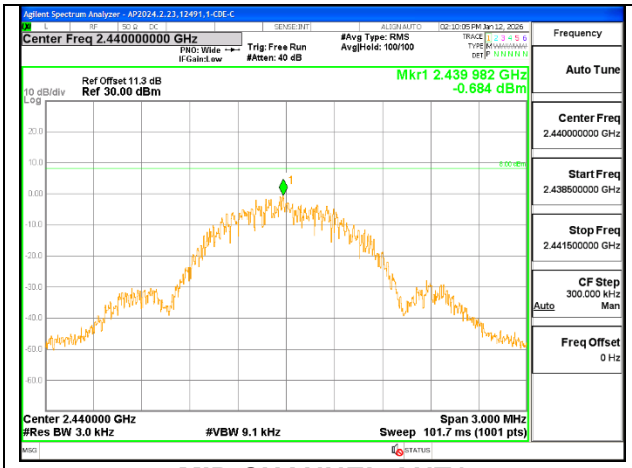
RESULTS

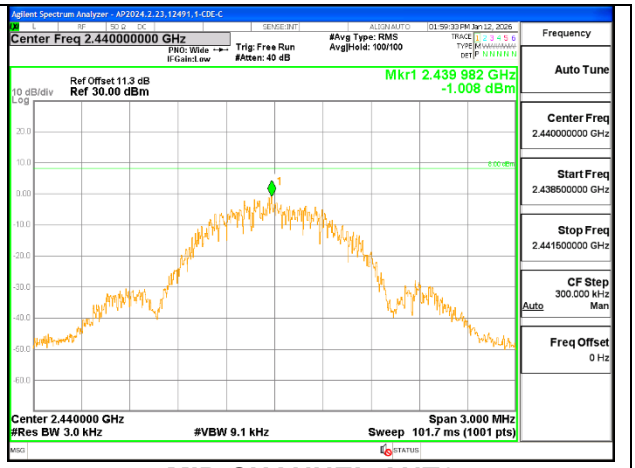
Mode	No. of Tx	Channel	Freq (MHz)	Measured Conducted Peak Power (dBm), Ant 1	Measured Conducted Peak Power (dBm), Ant 2	Measured Total Conducted Peak Power (dBm)	Output Power Limit (dBm)	Output Power Margin (dB)	Measured PSD (dBm/3kHz), Ant 1	Measured PSD (dBm/3kHz), Ant 2	Corrected Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	PSD Margin (dB)
BLE 1Mbps	2Tx	0	2402	14.07	14.32	**17.21**	28.50	-11.29	-0.700	-0.957	2.18	6.50	-4.32
		19	2440	14.22	14.17	17.21	28.50	-11.29	-0.684	-1.008	2.17	6.50	-4.33
		39	2480	12.67	12.49	15.59	28.50	-12.91	-2.357	-2.874	0.40	6.50	-6.10

Antenna 1 + Antenna 2

PSD PLOT



MID CHANNEL ANT1



MID CHANNEL ANT2

8.5. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Conducted Output Power: ANSI C63.10 Subclause - 11.9.2.3.2 Method AVGPM G (Measurement using an RF average-reading power meter)

RESULTS

Antenna 1 + Antenna 2

Mode	No. of Tx	Channel	Freq (MHz)	Measured Conducted Avg Power (dBm), Ant 1	Measured Conducted Avg Power (dBm), Ant 2	Measured Total Conducted Avg Power (dBm)
BLE 1Mbps	2Tx	0	2402	13.89	14.15	**17.03**
		19	2440	13.99	14.00	17.01
		39	2480	12.37	12.20	15.30

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8.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

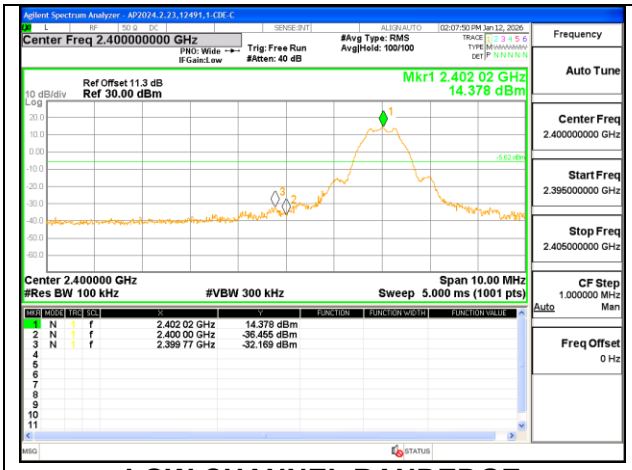
Output power was measured based on the use of a peak measurement; therefore, the required attenuation is 20 dBc.

TEST PROCEDURE

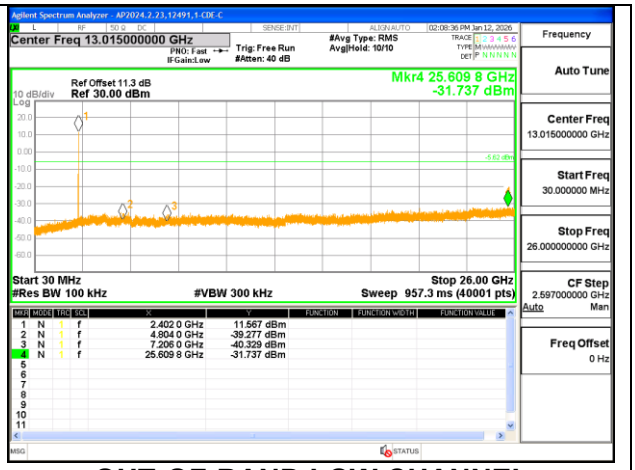
ANSI C63.10 Subclause - 11.12.2

RESULTS

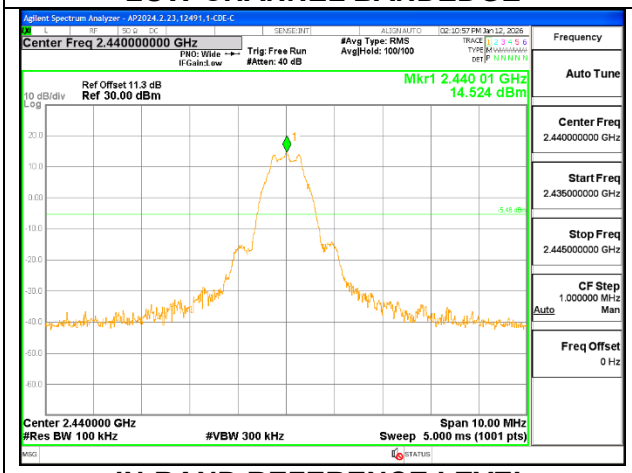
Antenna 1



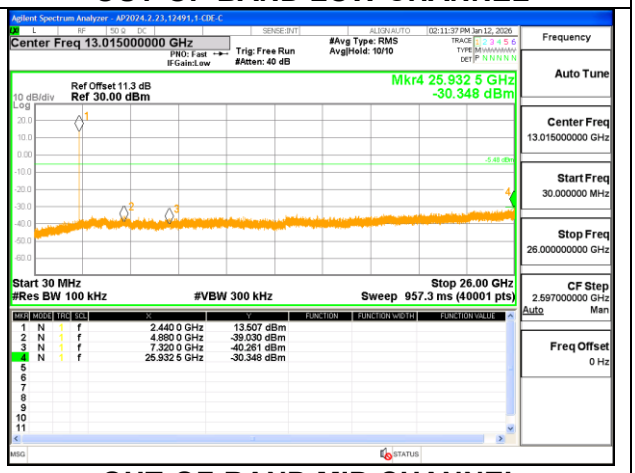
LOW CHANNEL BANDEDGE



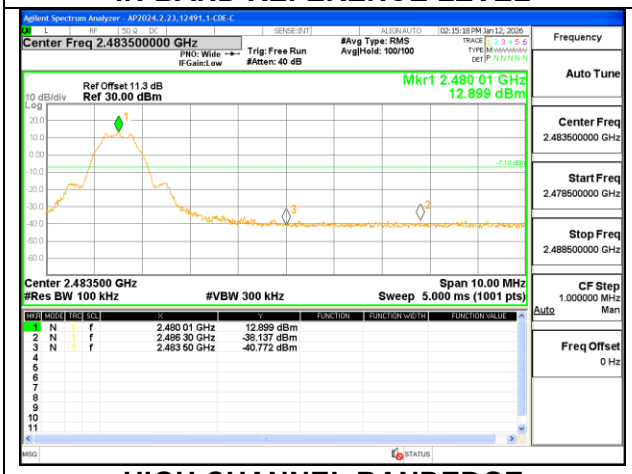
OUT-OF-BAND LOW CHANNEL



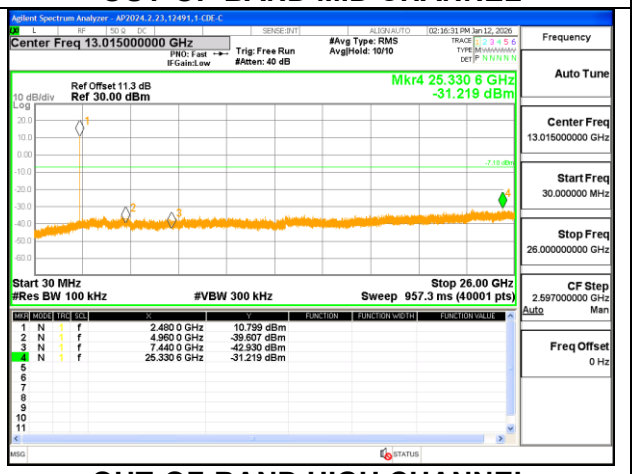
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

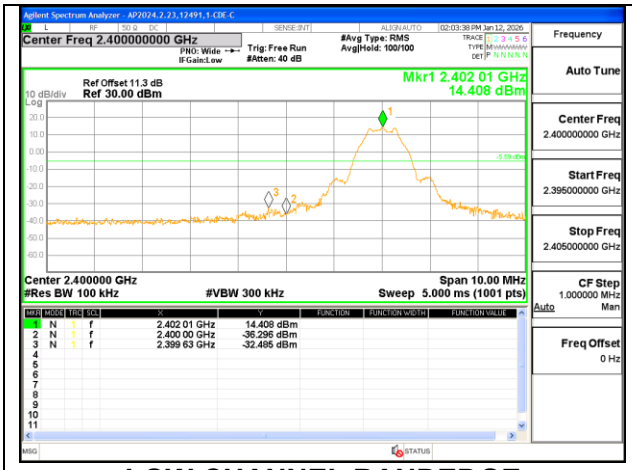


HIGH CHANNEL BANDEDGE

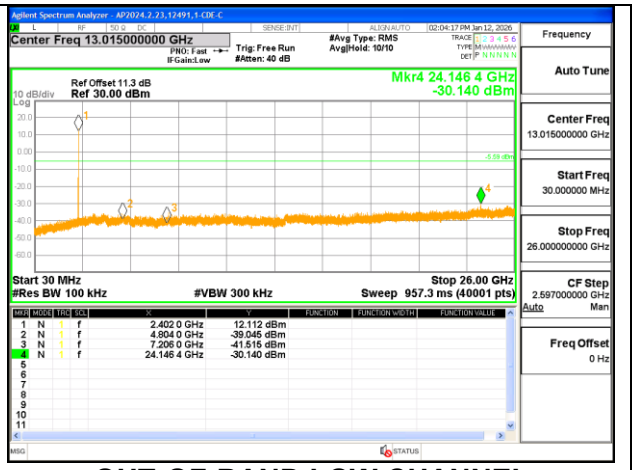


OUT-OF-BAND HIGH CHANNEL

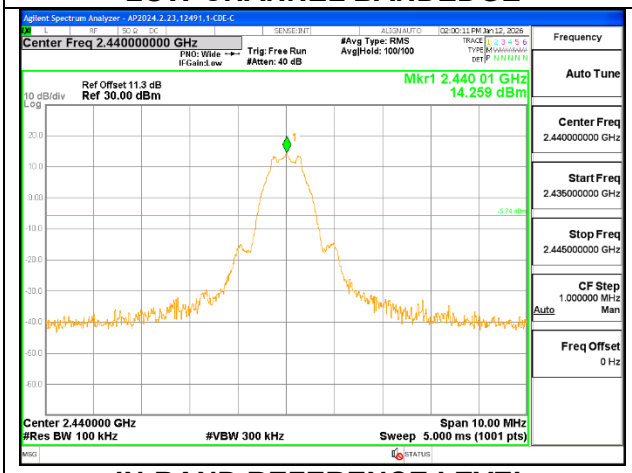
Antenna 2



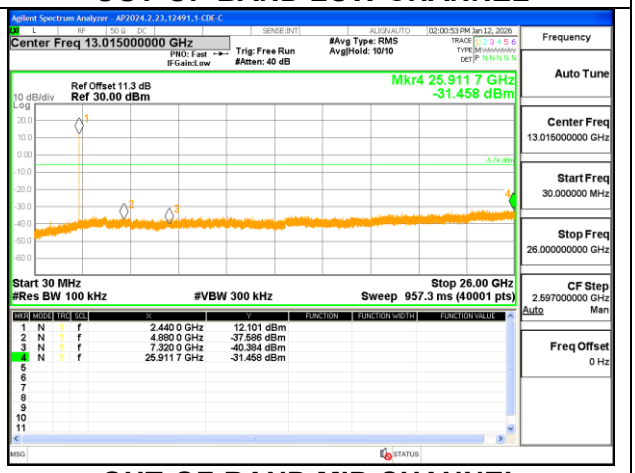
LOW CHANNEL BANDEDGE



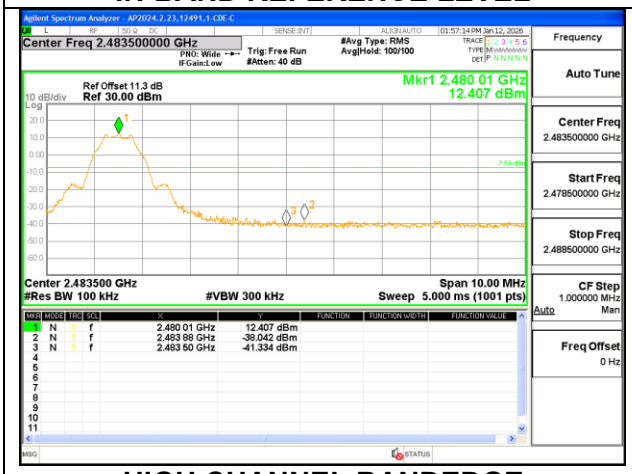
OUT-OF-BAND LOW CHANNEL



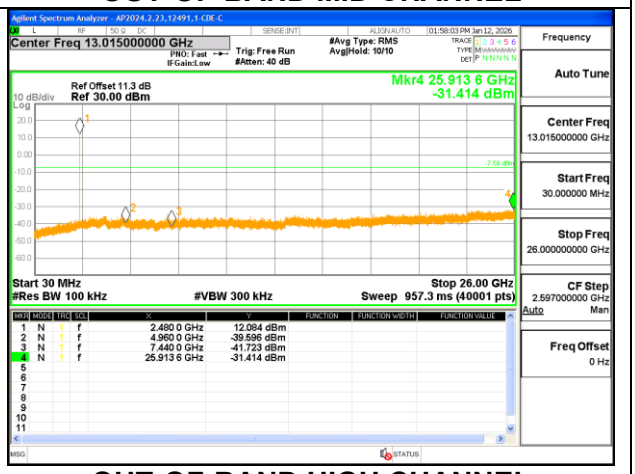
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

Radiated emissions non-restricted frequency bands	ANSI C63.10 Subclause -11.11
Radiated emissions restricted frequency bands	ANSI C63.10 Subclause -11.12.1
Band-edge	ANSI C63.10 Subclause -11.12.2.4: Peak Measurement
Band-edge	ANSI C63.10 Subclause -11.12.2.5: Average Measurement
Radiated Spurious Emissions Below 30MHz	ANSI C63.10 Subclause 6.4

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz: 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz, the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as a quasi-peak.

For pre-scans above 1 GHz, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, an investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel). Parallel and perpendicular are the worst orientations; therefore, testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y – 51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

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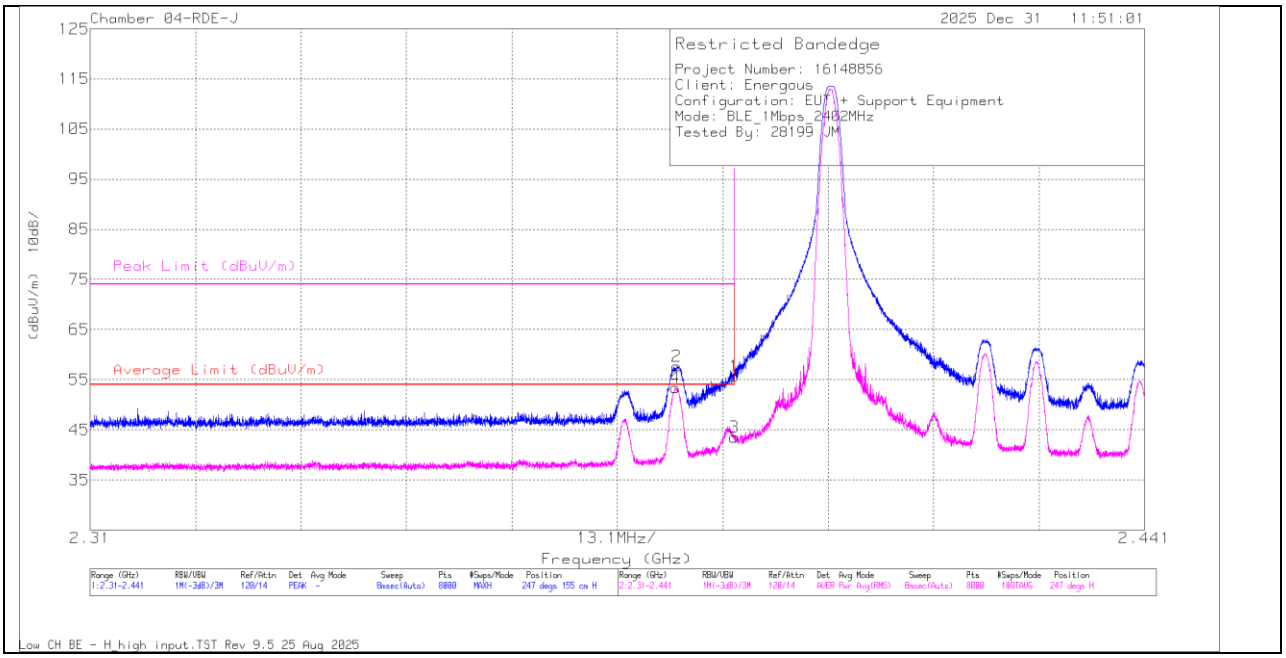
9.2. TRANSMITTER ABOVE 1 GHz

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

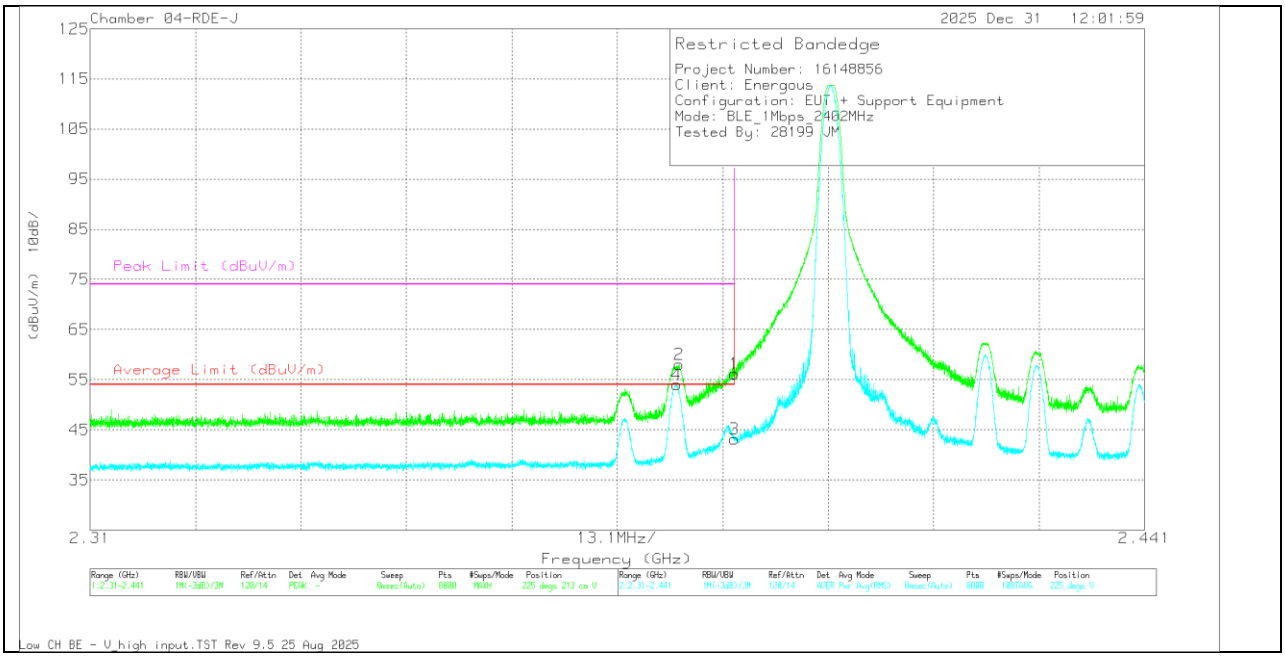


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	51.66	Pk	32.2	-28.2	0	55.66	-	-	74	-18.34	247	155	H
2	* 2.382	53.82	Pk	32.2	-28.3	0	57.72	-	-	74	-16.28	247	155	H
3	* 2.39	37.55	RMS	32.2	-28.2	2.01	43.56	54	-10.44	-	-	247	155	H
4	* 2.382	47.48	RMS	32.2	-28.3	2.01	53.39	54	-.61	-	-	247	155	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



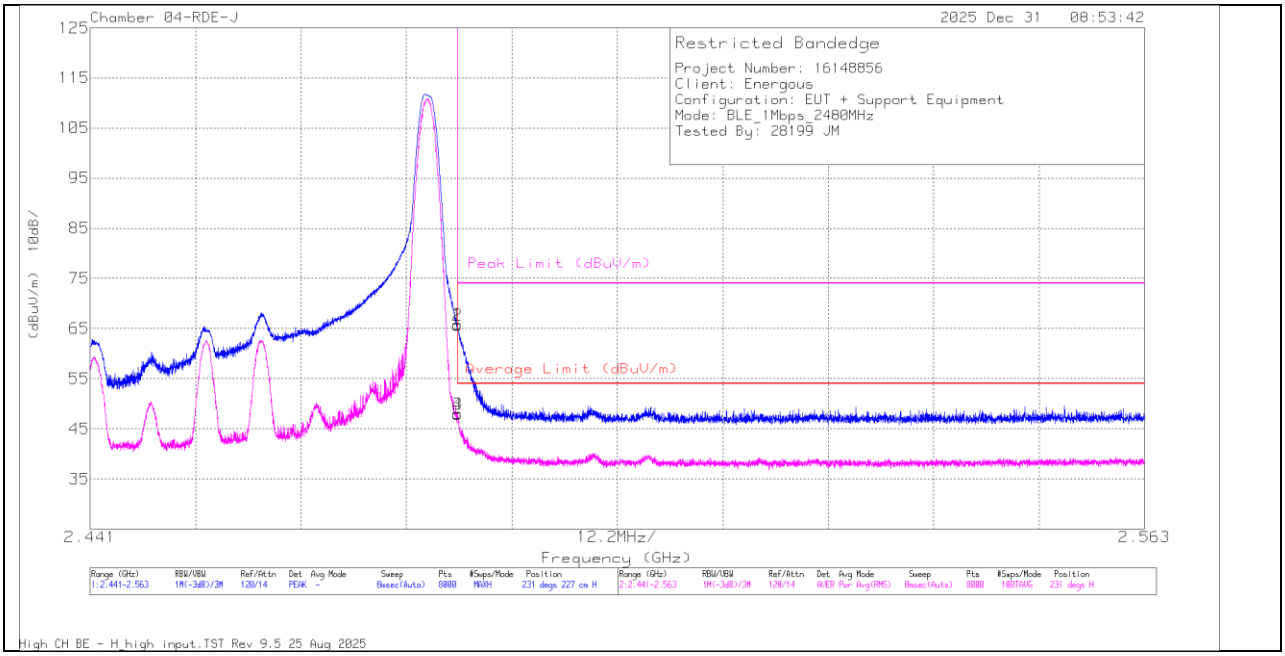
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	52.19	Pk	32.2	-28.2	0	56.19	-	-	74	-17.81	225	213	V
2	* 2.383	54.1	Pk	32.2	-28.3	0	58	-	-	74	-16	225	213	V
3	* 2.39	37.14	RMS	32.2	-28.2	2.01	43.15	54	-10.85	-	-	225	213	V
4	* 2.382	48.06	RMS	32.2	-28.3	2.01	53.97	54	-.03	-	-	225	213	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

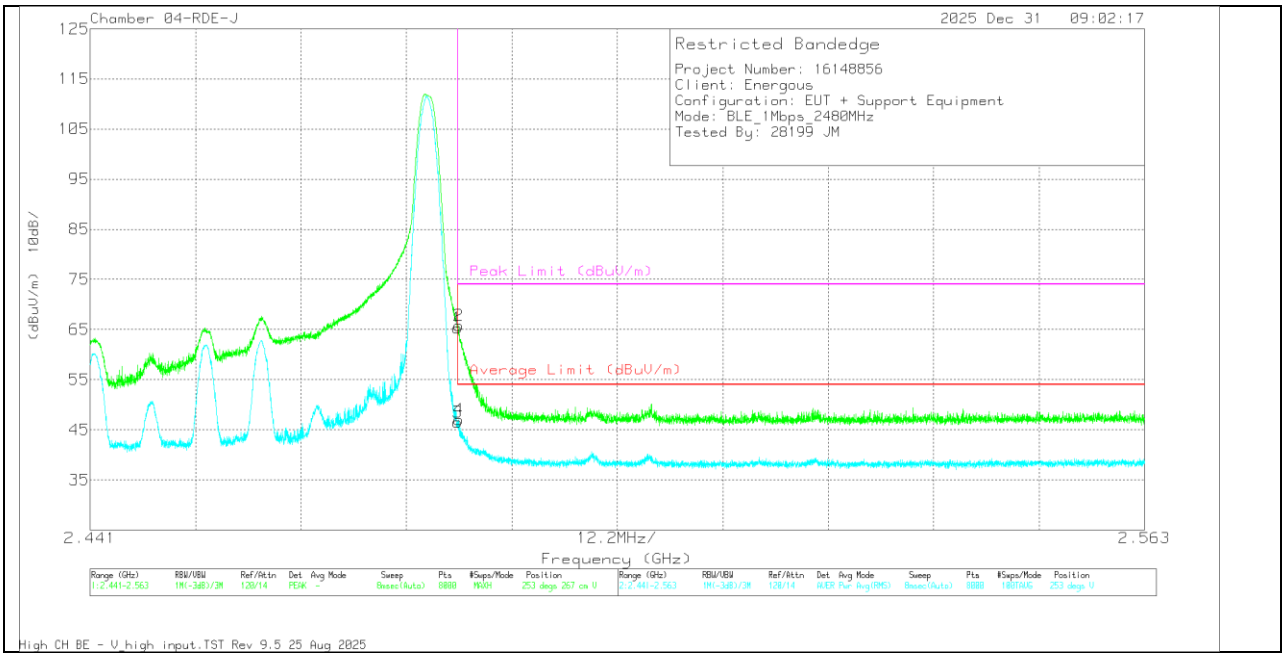


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.54	Pk	32.4	-28.1	0	65.84	-	-	74	-8.16	231	227	H
2	* 2.4835	61.4	Pk	32.4	-28.1	0	65.7	-	-	74	-8.3	231	227	H
3	* 2.4835	41.65	RMS	32.4	-28.1	2.01	47.96	54	-6.04	-	-	231	227	H
4	* 2.4835	41.53	RMS	32.4	-28.1	2.01	47.84	54	-6.16	-	-	231	227	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



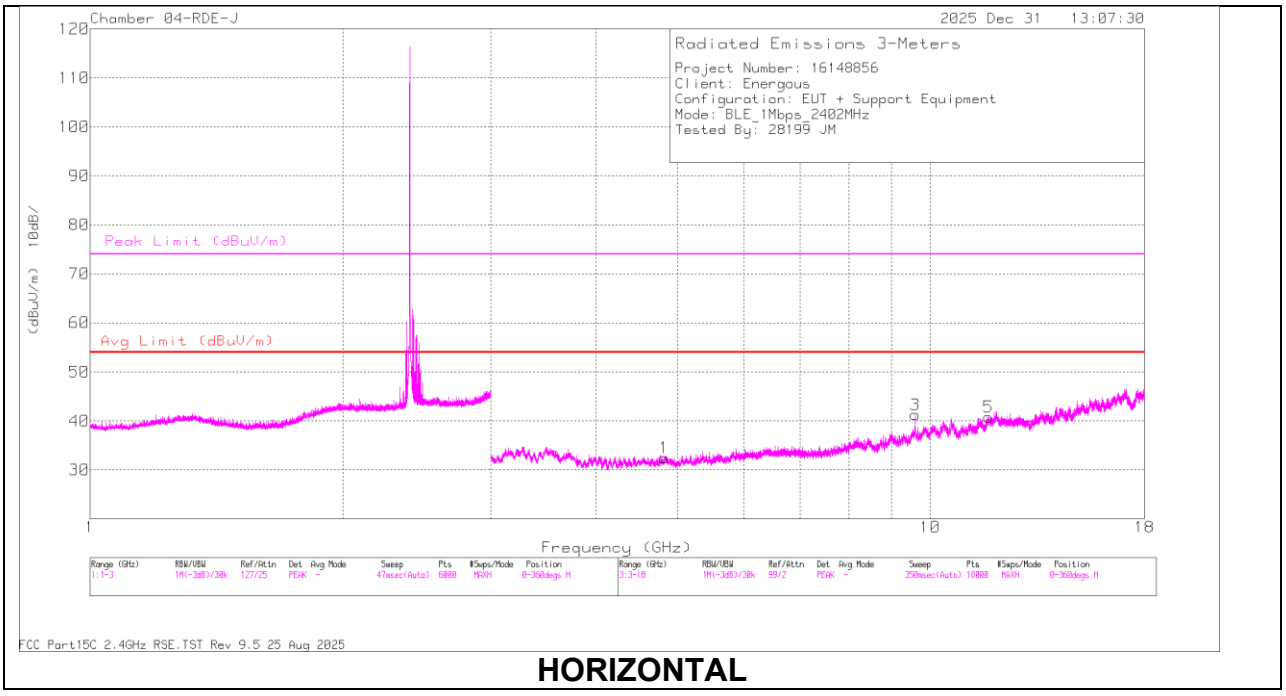
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl (dB	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.98	Pk	32.4	-28.1	0	65.28	-	-	74	-8.72	253	267	V
2	* 2.4836	61.5	Pk	32.4	-28.1	0	65.8	-	-	74	-8.2	253	267	V
3	* 2.4835	40.21	RMS	32.4	-28.1	2.01	46.52	54	-7.48	-	-	253	267	V
4	* 2.4836	40.72	RMS	32.4	-28.1	2.01	47.03	54	-6.97	-	-	253	267	V

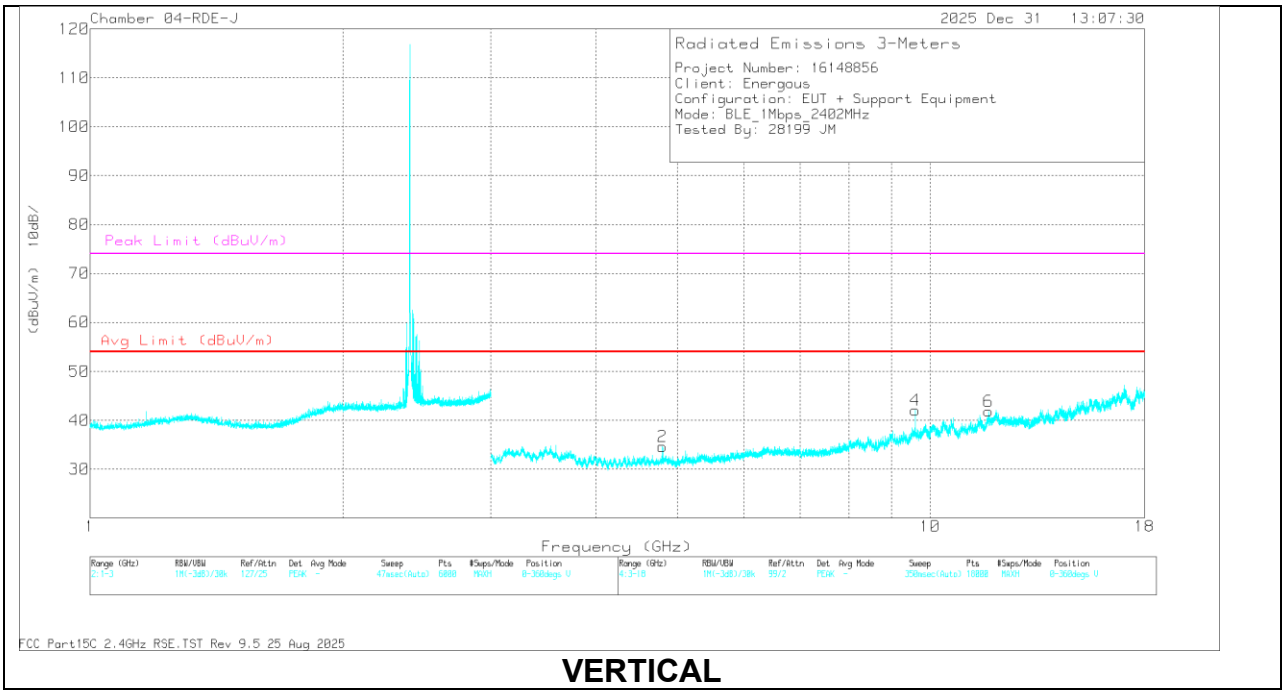
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Fltr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.8282	53.87	PK2	34.3	-45.3	0	42.87	-	-	74	-31.13	0	136	H
	* 4.8413	41.38	MAv1	34.3	-45	2.01	32.69	54	-21.31	-	-	0	136	H
2	* 4.8035	54.52	PK2	34.3	-45.4	0	43.42	-	-	74	-30.58	284	107	V
	* 4.8036	44.39	MAv1	34.3	-45.4	2.01	35.3	54	-18.7	-	-	284	107	V
3	9.6074	55.93	PK2	37	-40.6	0	52.33	-	-	-	-	239	190	H
4	9.6091	54.11	PK2	37	-40.7	0	50.41	-	-	-	-	265	183	V
5	* 11.755	50.9	PK2	39.3	-39.4	0	50.8	-	-	74	-23.2	111	202	H
	* 11.748	39.11	MAv1	39.2	-39.5	2.01	40.82	54	-13.18	-	-	111	202	H
6	* 11.756	51.2	PK2	39.3	-39.4	0	51.1	-	-	74	-22.9	20	180	V
	* 11.751	39.1	MAv1	39.3	-39.5	2.01	40.91	54	-13.09	-	-	20	180	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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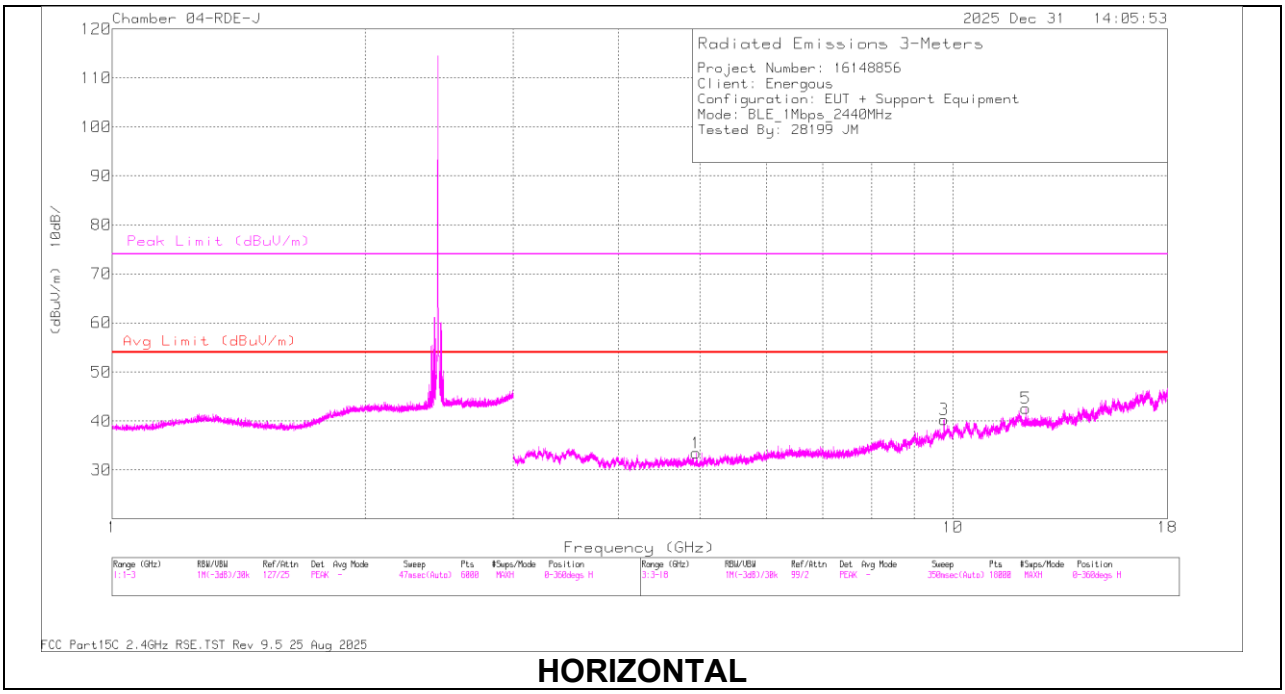
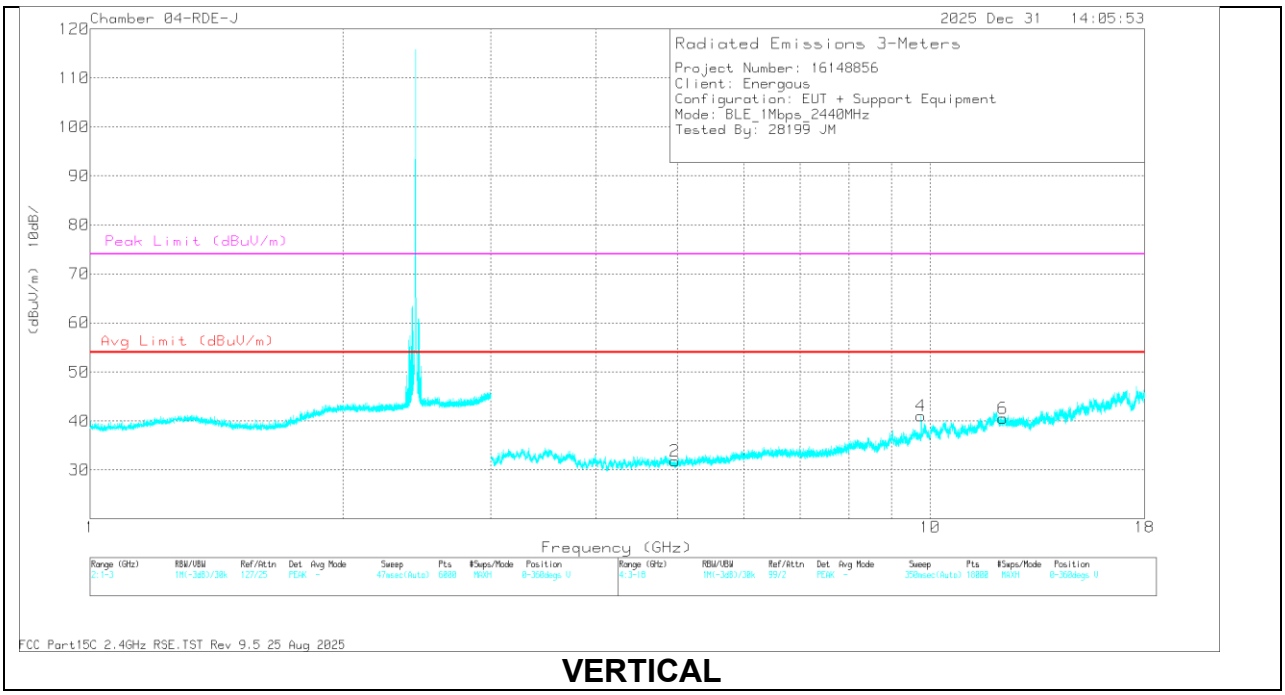
MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Fltr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.9473	52.82	PK2	34.2	-44.9	0	42.12	-	-	74	-31.88	280	341	H
	* 4.9480	41.54	MAv1	34.2	-44.9	2.01	32.85	54	-21.15	-	-	280	341	H
2	* 4.9584	54.12	PK2	34.2	-45	0	43.32	-	-	74	-30.68	20	400	V
	* 4.9555	41.69	MAv1	34.2	-45	2.01	32.9	54	-21.1	-	-	20	400	V
3	9.7589	54.05	PK2	37.2	-41.4	0	49.85	-	-	-	-	245	109	H
4	9.7591	54.01	PK2	37.2	-41.4	0	49.81	-	-	-	-	256	197	V
5	* 12.2010	40.87	MAv1	39.6	-40.1	2.01	42.38	54	-11.62	-	-	230	184	H
	* 12.2016	52.17	PK2	39.6	-40.1	0	51.67	-	-	74	-22.33	230	184	H
6	* 12.2021	51.37	PK2	39.6	-40.1	0	50.87	-	-	74	-23.13	254	146	V
	* 12.1991	40.28	MAv1	39.6	-40.1	2.01	41.79	54	-12.21	-	-	254	146	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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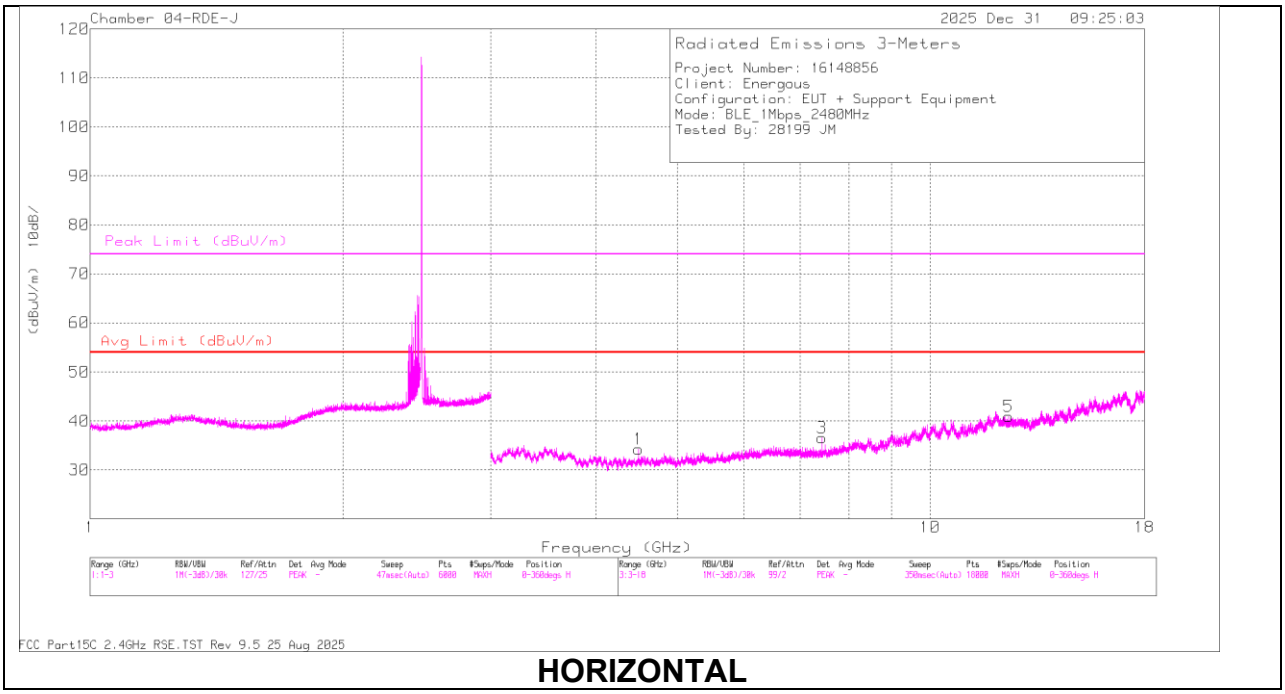
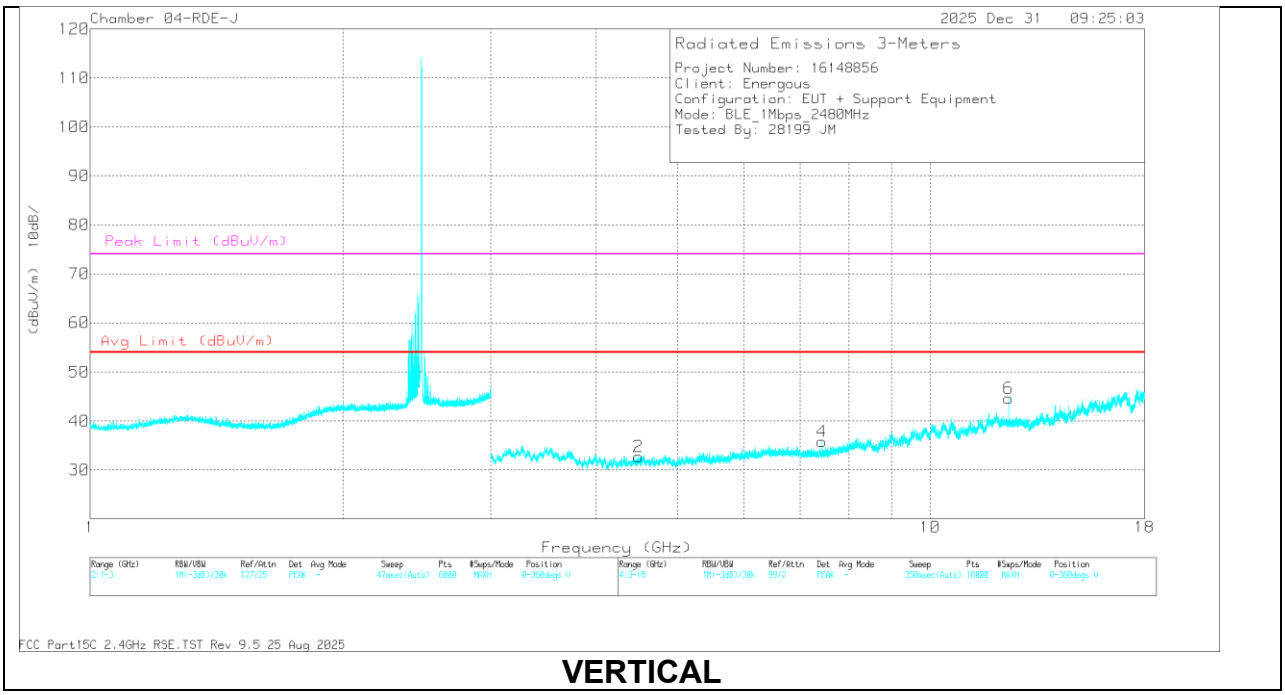
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Fltr (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.5101	53.54	PK2	34.2	-45.3	0	42.44	-	-	74	-31.56	216	114	H
	* 4.5020	41.53	MAv1	34.2	-45.4	2.01	32.34	54	-21.66	-	-	216	114	H
2	4.4873	53.82	PK2	34.2	-45.4	0	42.62	-	-	-	-	25	178	V
3	* 7.4393	53.33	PK2	35.5	-42.3	0	46.53	-	-	74	-27.47	261	166	H
	* 7.4393	41.61	MAv1	35.5	-42.3	2.01	36.82	54	-17.18	-	-	261	166	H
4	* 7.4393	52.21	PK2	35.5	-42.3	0	45.41	-	-	74	-28.59	254	103	V
	* 7.4393	41.53	MAv1	35.5	-42.3	2.01	36.74	54	-17.26	-	-	254	103	V
5	* 12.4007	52.18	PK2	39.3	-40.1	0	51.38	-	-	74	-22.62	256	159	H
	* 12.3992	40.94	MAv1	39.3	-40.1	2.01	42.15	54	-11.85	-	-	256	159	H
6	* 12.3985	55.05	PK2	39.3	-40.1	0	54.25	-	-	74	-19.75	247	157	V
	* 12.3993	44.76	MAv1	39.3	-40.1	2.01	45.97	54	-8.03	-	-	247	157	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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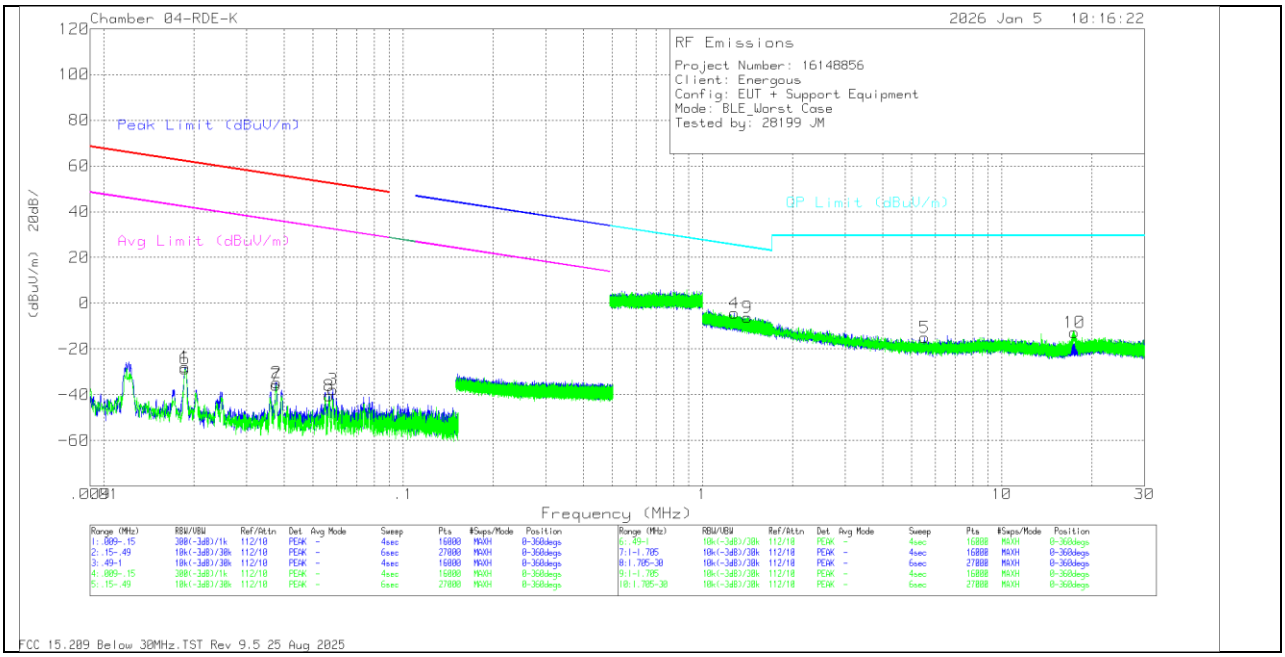
9.3. TRANSMITTER WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

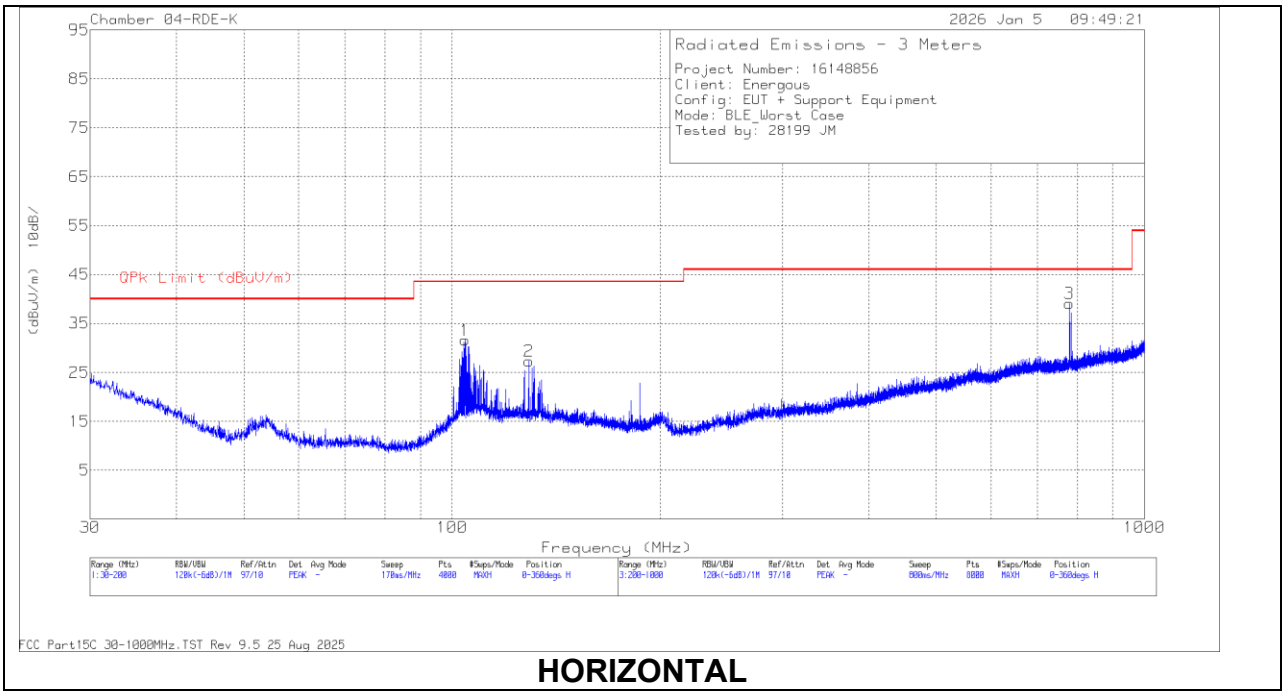
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.0187	24.34	Pk	59.3	-31.5	-80	-27.86	62.15	-90.01	42.15	-70.01	0-360
2	.0377	20.28	Pk	57.4	-32.5	-80	-34.82	56.06	-90.88	36.06	-70.88	0-360
3	.0583	17.63	Pk	56.4	-31.7	-80	-37.67	52.27	-89.94	32.27	-69.94	0-360
6	.0187	23.49	Pk	59.3	-31.5	-80	-28.71	62.16	-90.87	42.16	-70.87	0-360
7	.0376	19.37	Pk	57.4	-32.5	-80	-35.73	56.07	-91.8	36.07	-71.8	0-360
8	.0566	14.7	Pk	56.5	-31.8	-80	-40.6	52.53	-93.13	32.53	-73.13	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	1.2793	22.21	Pk	45.3	-31.9	-40	-4.39	25.49	-29.88	0-360
5	5.5166	21.18	Pk	35.5	-31.6	-40	-14.92	29.5	-44.42	0-360
9	1.4118	21.13	Pk	44.6	-32	-40	-6.27	24.63	-30.9	0-360
10	17.4879	24.79	Pk	33.9	-31.4	-40	-12.71	29.5	-42.21	0-360

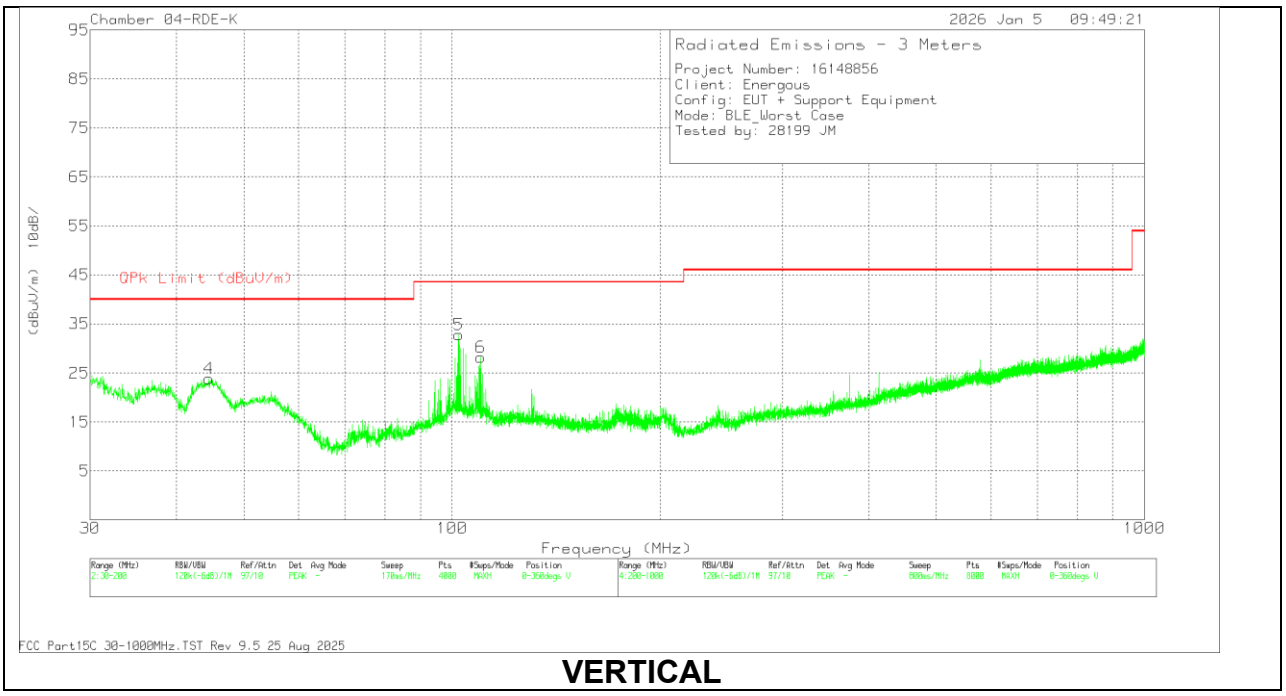
Pk - Peak detector

TRANSMITTER WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

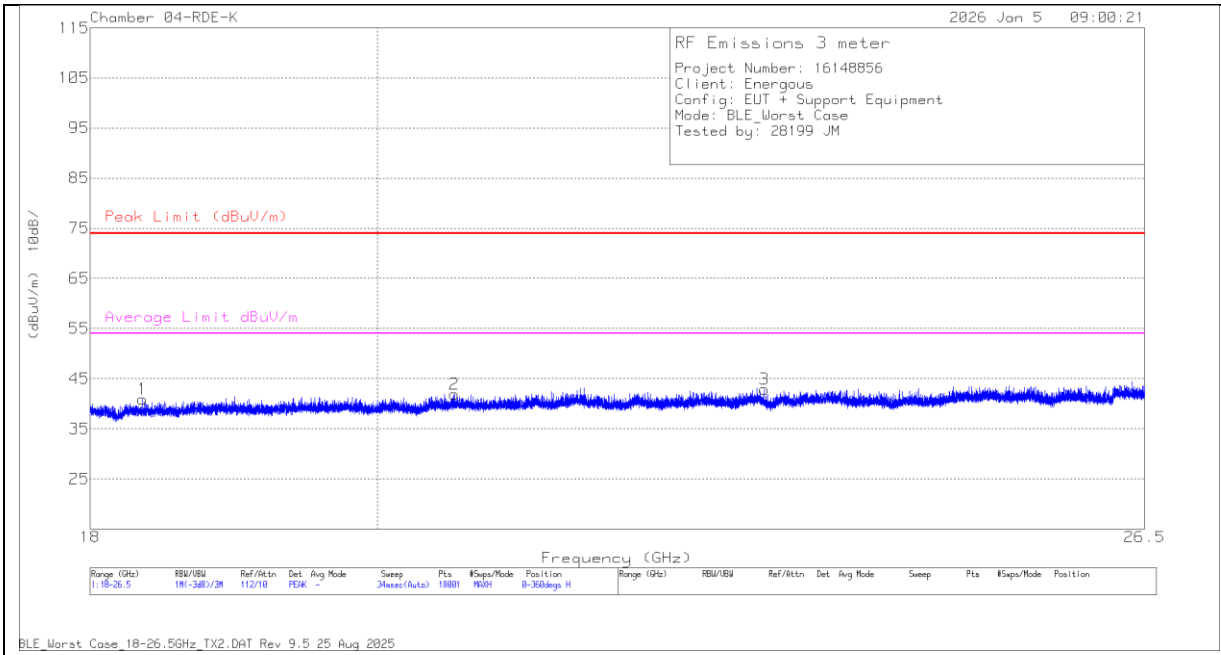
Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	203089 ACF (dB/m)	Amp/Cbls (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	104.479	44.49	Pk	17.7	-30.6	31.59	43.52	-11.93	0-360	299	H
2	* 129.093	37.83	Pk	19.9	-30.4	27.33	43.52	-16.19	0-360	199	H
3	778.375	39.39	Pk	26.9	-27.2	39.09	46.02	-6.93	0-360	101	H
	780.392	19.78	Qp	26.9	-27.2	19.48	46.02	-26.54	220	311	H
4	44.5813	38.13	Pk	16.8	-31.1	23.83	40	-16.17	0-360	101	V
5	102.226	46.33	Pk	17.2	-30.7	32.83	43.52	-10.69	0-360	101	V
6	* 109.963	40.08	Pk	18.7	-30.6	28.18	43.52	-15.34	0-360	101	V

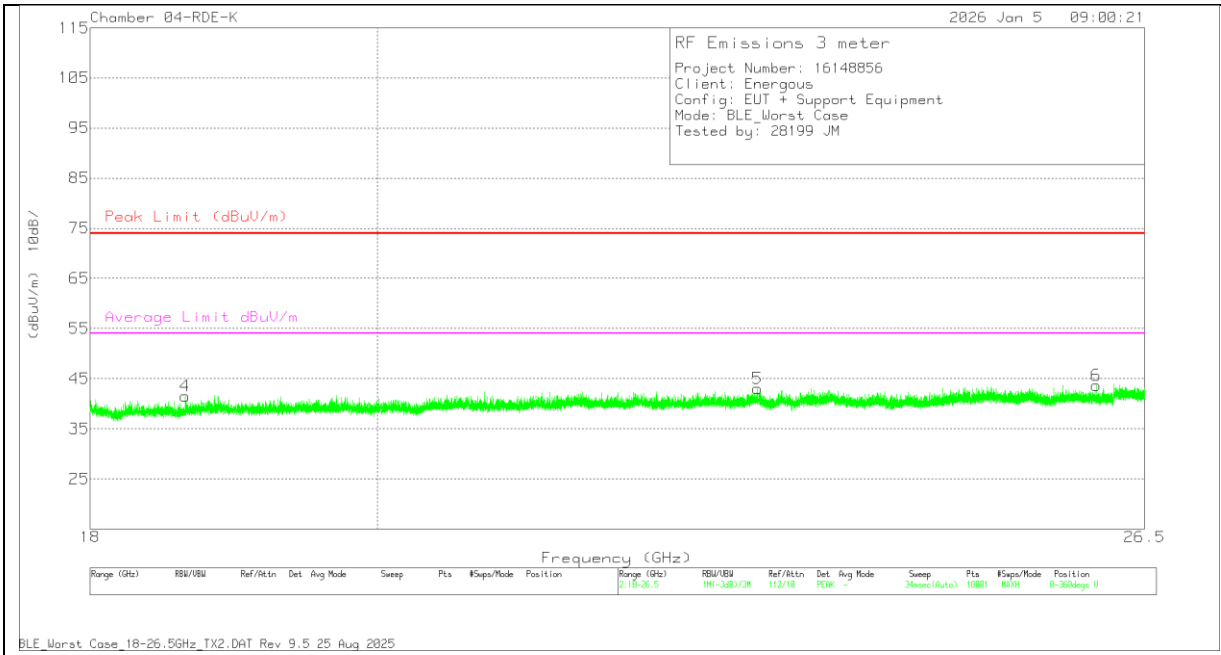
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector Qp - Quasi-Peak detector

9.4. TRANSMITTER WORST CASE 18-26.5GHz

SPURIOUS EMISSIONS 18 TO 26.5 GHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

18-26.5 GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81140 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.3499	52.85	Pk	32	-63.3	19.4	40.95	74	-33.05	-	0-360	200	H
2	* 20.5726	50.15	Pk	32.7	-61.2	20.3	41.95	74	-32.05	-	0-360	200	H
3	* 23.0513	50.92	Pk	33.1	-62.6	21.5	42.92	74	-31.08	-	0-360	200	H
4	* 18.6370	52.68	Pk	32.2	-62.8	19.5	41.58	74	-32.42	-	0-360	199	V
5	* 22.9918	50.4	Pk	33.2	-62.1	21.5	43	74	-31	-	0-360	199	V
6	26.0348	48.95	Pk	34	-62.2	22.9	43.65	74	-30.35	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.10, Subclause 6.2

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

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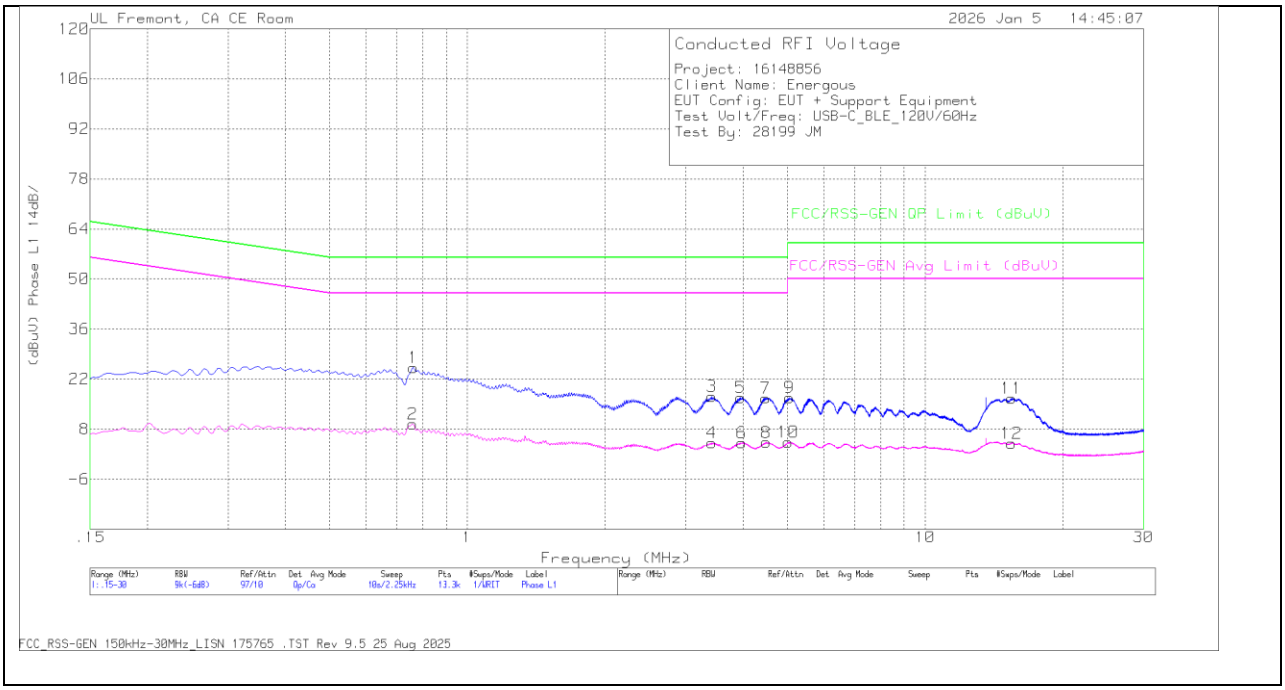
10.1. AC/DC Adapter via USB Cable

LINE 1 RESULTS

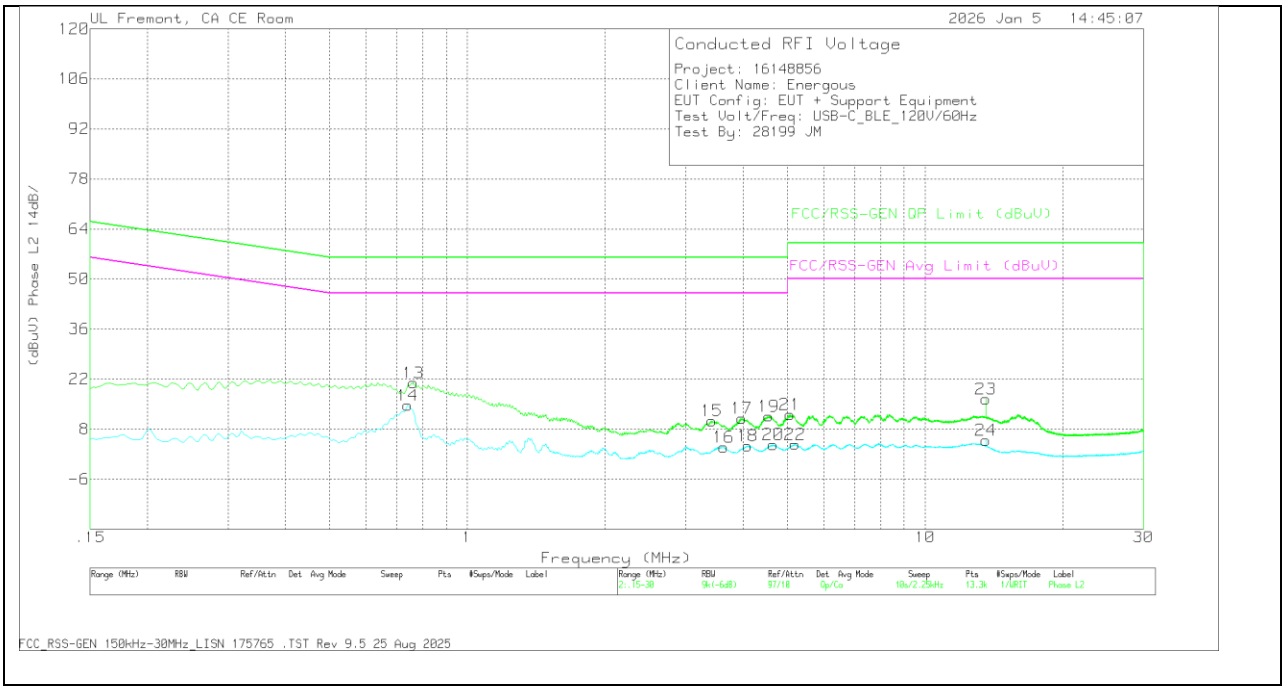


Trace Markers

Range 1: Phase L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC/RSS-GEN Avg Limit (dBuV)	Avg (CISPR) Margin (dB)	FCC/RSS-GEN QP Limit (dBuV)	QP Margin (dB)
2	.7598	-.62	Ca	.1	0	10	9.48	46	-36.52	-	-
4	3.4215	-5.98	Ca	.1	0	10	4.12	46	-41.88	-	-
6	3.975	-5.9	Ca	.1	0	10	4.2	46	-41.8	-	-
8	4.4925	-5.84	Ca	.1	0	10	4.26	46	-41.74	-	-
10	5.028	-5.84	Ca	.2	0	10	4.36	50	-45.64	-	-
12	15.4275	-6.34	Ca	.3	.1	10	4.06	50	-45.94	-	-
1	.762	15.17	Qp	.1	0	10	25.27	-	-	56	-30.73
3	3.4215	7	Qp	.1	0	10	17.1	-	-	56	-38.9
5	3.957	6.74	Qp	.1	0	10	16.84	-	-	56	-39.16
7	4.4903	6.59	Qp	.1	0	10	16.69	-	-	56	-39.31
9	5.0483	6.56	Qp	.2	0	10	16.76	-	-	60	-43.24
11	15.4275	6.26	Qp	.3	.1	10	16.66	-	-	60	-43.34

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



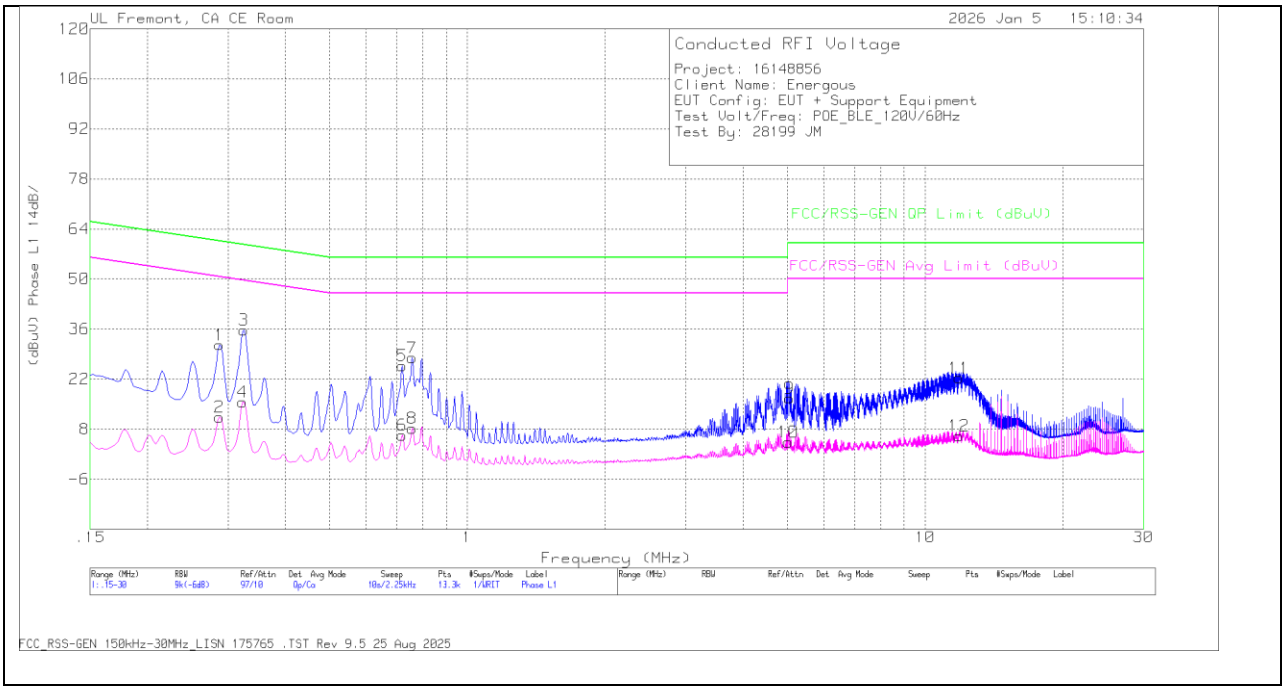
Trace Markers

Range2: Phase L2 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**Cbl (dB)**	**LISN (dB)**	**10dB Atten (dB)**	**Corrected Reading (dBuV)**	**FCC/RSS-GEN Avg Limit (dBuV)**	**Avg (CISPR) Margin (dB)**	**FCC/RSS-GEN QP Limit (dBuV)**	**QP Margin (dB)**
2	.7418	4.51	Ca	.1	0	10	14.61	46	-31.39	-	-
4	3.6285	-7.17	Ca	.1	0	10	2.93	46	-43.07	-	-
6	4.0988	-6.78	Ca	.1	0	10	3.32	46	-42.68	-	-
8	4.6568	-6.42	Ca	.1	0	10	3.68	46	-42.32	-	-
10	5.1923	-6.47	Ca	.2	0	10	3.73	50	-46.27	-	-
12	13.56	-5.45	Ca	.2	.1	10	4.85	50	-45.15	-	-
1	.762	10.81	Qp	.1	0	10	20.91	-	-	56	-35.09
3	3.417	.18	Qp	.1	0	10	10.28	-	-	56	-45.72
5	3.9773	.87	Qp	.1	0	10	10.97	-	-	56	-45.03
7	4.5555	1.51	Qp	.1	0	10	11.61	-	-	56	-44.39
9	5.0708	1.81	Qp	.2	0	10	12.01	-	-	60	-47.99
11	13.56	6.07	Qp	.2	.1	10	16.37	-	-	60	-43.63

Qp - Quasi-Peak detector
Ca - CISPR average detection

10.2. POE

LINE 1 RESULTS

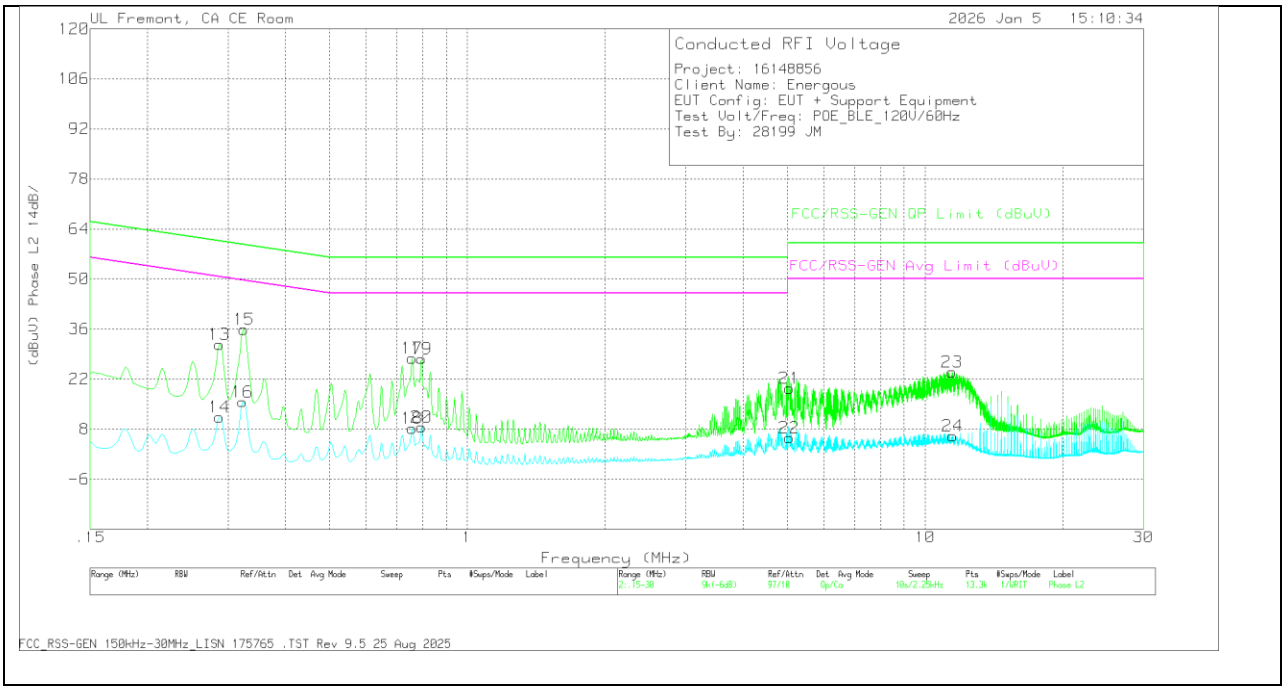


Trace Markers

Range 1: Phase L1 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**Cbl (dB)**	**LISN (dB)**	**10dB Atten (dB)**	**Corrected Reading (dBuV)**	**FCC/RSS-GEN Avg Limit (dBuV)**	**Avg (CISPR) Margin (dB)**	**FCC/RSS-GEN QP Limit (dBuV)**	**QP Margin (dB)**
2	.2873	1.42	Ca	0	0	10	11.42	50.6	-39.18	-	-
4	.3233	5.56	Ca	0	0	10	15.56	49.62	-34.06	-	-
6	.7215	-3.78	Ca	.1	0	10	6.32	46	-39.68	-	-
8	.7586	-1.86	Ca	.1	0	10	8.24	46	-37.76	-	-
10	5.028	-5.89	Ca	.2	0	10	4.31	50	-45.69	-	-
12	11.8568	-4.16	Ca	.2	.1	10	6.14	50	-43.86	-	-
1	.2873	21.59	Qp	0	0	10	31.59	-	-	60.6	-29.01
3	.3255	25.67	Qp	0	0	10	35.67	-	-	59.57	-23.9
5	.7215	15.67	Qp	.1	0	10	25.77	-	-	56	-30.23
7	.7575	17.83	Qp	.1	0	10	27.93	-	-	56	-28.07
9	5.046	6.49	Qp	.2	0	10	16.69	-	-	60	-43.31
11	11.8568	12.01	Qp	.2	.1	10	22.31	-	-	60	-37.69

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase L2 .15 - 30MHz											
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**Cbl (dB)**	**LISN (dB)**	**10dB Atten (dB)**	**Corrected Reading (dBuV)**	**FCC/RSS-GEN Avg Limit (dBuV)**	**Avg (CISPR) Margin (dB)**	**FCC/RSS-GEN QP Limit (dBuV)**	**QP Margin (dB)**
14	.2873	1.4	Ca	0	0	10	11.4	50.6	-39.2	-	-
16	.3233	5.64	Ca	0	0	10	15.64	49.62	-33.98	-	-
18	.7575	-1.87	Ca	.1	0	10	8.23	46	-37.77	-	-
20	.7935	-1.51	Ca	.1	0	10	8.59	46	-37.41	-	-
22	5.046	-4.69	Ca	.2	0	10	5.51	50	-44.49	-	-
24	11.4765	-4.14	Ca	.2	.1	10	6.16	50	-43.84	-	-
13	.2873	21.69	Qp	0	0	10	31.69	-	-	60.6	-28.91
15	.3255	25.9	Qp	0	0	10	35.9	-	-	59.57	-23.67
17	.7575	17.74	Qp	.1	0	10	27.84	-	-	56	-28.16
19	.7935	17.63	Qp	.1	0	10	27.73	-	-	56	-28.27
21	5.046	9.29	Qp	.2	0	10	19.49	-	-	60	-40.51
23	11.4383	13.63	Qp	.2	.1	10	23.93	-	-	60	-36.07

Qp - Quasi-Peak detector
Ca - CISPR average detection

11. SETUP PHOTOS

Please refer to 16148856-EP1 for setup photos.

END OF REPORT

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