

TEST REPORT

Report Number: R15927071-E3

Applicant : Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

Model : A04946, B04946, C04946

FCC ID : IPH-04946

IC : 1792A-04946

EUT Description : Digital Transceiver

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2025
ISED RSS-247 ISSUE 4
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025-10-22

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
v1	2025-10-22	Initial Issue	Manish Baral

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

EUT DESCRIPTION: Digital Transceiver

MODEL: A04946, B04946, C04946

SERIAL NUMBER: 3516172328, 3516172342, 3521365413, 3521365231,
3521365017, 3516172677, 3516168706, 3516172522

SAMPLE RECEIPT DATE: 2025-07-23

DATE TESTED: 2025-07-29 TO 2035-08-08

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C: 2025	
ISED RSS-247 Issue 4	Refer to Section 2
ISED RSS-GEN Issue 5 + A1 + A2	

UL LLC 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released
For UL LLC By:

Prepared By:



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Consumer, Medical and IT Segment
UL LLC

2. TEST RESULTS SUMMARY

This report contains info provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

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

- 1) Antenna gain and type (see section 6.3)
- 2) Worst-case data rates (see section 6.5)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.3.
15.247 (a) (2)	RSS-247 6.3.1 (a)	6dB BW	Compliant	None
15.247 (b) (3)	RSS-247 6.3.2	Output Power		
See Comment		Average power	Reporting purposes only	Per ANSI C63.10, Section 11.9.2.3.2.
15.247 (e)	RSS-247 6.3.1 (b)	PSD	Compliant	None
15.247 (d)	RSS-247 6.6	Conducted Spurious Emissions		
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions		
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	Non-Applicable	EUT is battery powered.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47 CFR Part 2, FCC 47 CFR Part 15: 2025, ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5 + A1 + A2, and RSS-247 Issue 4.

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, 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: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

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 on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is 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	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

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)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

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.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a Digital Transceiver with BT, BLE, ANT/ANT+, and Global Navigation Satellite System (GNSS) receiver. This report covers testing on the BLE. The EUT has three different models, the 10 inch model, 13 inch model, and 17 inch model. The radio is the same across the three models.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	BLE 1Mbps	2.78	1.8967059212
2402 - 2480	BLE 2Mbps	2.85	1.9275249132

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

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

The radio utilizes an antenna with the following type and maximum gain:

Model	Type	Frequency Range (MHz)	Maximum Gain (dBi)
10-inch	Dipole	2402-2480	3.40
13-inch	Dipole	2402-2480	2.50
17-inch	Dipole	2402-2480	6.81

6.4. SOFTWARE AND FIRMWARE

Software Version: 41.52

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz were performed with the EUT set to transmit at the channel with highest PSD as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal axes, X, Y, and Z For each model (10 inch, 13 inch, and 17 inch). After orientations were investigated a 1-18 GHz spurious scan was ran on each model with its worst case orientation.

For BLE the worst-case orientation was determined to be the Y orientation, and the worst-case model was determined to be the 10-inch model. Therefore, all testing for BLE was performed with the EUT in the Y orientation on the 10-inch model.

This device has three models, the 10 inch, 13 inch and the 17 inch model. The only difference between these models are the enclosure/screen sizes. The radio is the same amongst these models.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Sonar	Garmin	010-13073-00	NA	NA
HDMI Termination	NA	NA	NA	NA
USB Card Reader	Garmin	010-02251-10	NA	NA
Switch	Garmin	BlueNet 20 Switch	86P004096	NA
Marine Transducer	Garmin	GT17M 20 Deg	8E9000041	NA
Temp Sensor	Garmin	GTEMP10-TH	4QM001566	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	9-Pin Network	2	9-Pin	Shielded	<3m	NA
2	HDMI	2	HDMI	Shielded	<3m	Used an HDMI terminator
3	CVBS	1	Video	Shielded	<3m	Terminated
4	Audio	1	9-Pin	Shielded	<3m	Terminated
5	Power	1	DC	NA	<3m	NA
6	USB DRD	1	USB-C	Shielded	<3m	Goes to USB Card Reader
7	12-Pin XDCR	1	12-Pin	Shielded	>3m	Sonar
8	NMEA 200 and J1939 5-Pin	2	5-Pin	Shielded	>3m	Temp Sensor
9	8-Pin XDCR	1	8-Pin	Shielded	>3m	Goes to Marine Transducer

TEST SETUP

EUT was configured using its own built-in push buttons prior to testing. For final emissions testing, the EUT was connected to DC power.

SETUP DIAGRAMS

Please refer to R15927071-EP1 for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
	1-18 GHz				
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-04-09	2026-04-09
	18-40 GHz				
91186	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2024-05-16	2026-05-16
	Gain-Loss Chains				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2025-06-13	2026-06-13
207639	Gain-loss string: 25-1000MHz	Various	Various	2025-06-13	2026-06-13
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-13
225795	Gain-loss string: 18-40GHz	Various	Various	2025-06-13	2026-06-13
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-21
90411	Spectrum Analyzer	Keysight	N9030A	2025-07-30	2026-07-30
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05
220155	DC Power Supply	Circuit Specialists	CSI3003X5	NA	NA

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 2					
90410	Spectrum Analyzer	Keysight Technologies	N9030A	2025-07-10	2026-07-10
248881	Environmental Meter	Control Company	06-662-4	2024-04-10	2026-04-10
76021	DC Regulated Power Supply	CircuitSpecialists.Com	CSI3005X5	NA	NA
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23	NA	NA
Power Software	Boonton Power Analyzer	Boonton	Version 3.0.13.0	NA	NA
Additional Equipment used					
259603	Conducted Switch Box	UL	CSB	2025-03-12	2026-03-12
91212	True RMS Multimeter	Agilent	U1232A	2025-07-30	2026-07-30
211055	Real-Time Peak Power Sensor 50MHz to 8GHz	Boonton	RTP5000	2025-07-30	2026-07-30

Test Equipment Used - Wireless Conducted Attenuators, Cables, and Couplers

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Attenuators					
246811	SMA Coaxial 10dB SMA Attenuator	CentricRF	-	2025-03-19	2026-03-19

8. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10-2020 Section 11.6

6 dB BW: ANSI C63.10-2020 Subclause -11.8.2

Occupied BW (99%): ANSI C63.10-2020 Section 6.9.3

Output Power: ANSI C63.10-2020 Subclause -11.9.1.2 Method PKPM1 Peak-reading power meter
ANSI C63.10-2020 Subclause -11.9.2.3.2 Method AVGPM-G (Measurement using a gated RF average-reading power meter)

PSD: ANSI C63.10-2020 Subclause -11.10.2 Method PKPSD (peak PSD)

Conducted emissions non-restricted frequency bands: ANSI C63.10-2020 Subclause -11.11 and 6.10.4

Radiated emissions restricted frequency bands: ANSI C63.10-2020 Subclause -11.12.1 and 6.10.5

General radiated emissions: ANSI C63.10 Subclause - 6.3-6.6

AC Power-line conducted emissions: ANSI C63.10-2020, Section 6.2.

9. ANTENNA PORT TEST RESULTS

Note: To reduce file size of report, only representative plots are included for some conducted test data in section 9.

9.1. ON TIME AND DUTY CYCLE

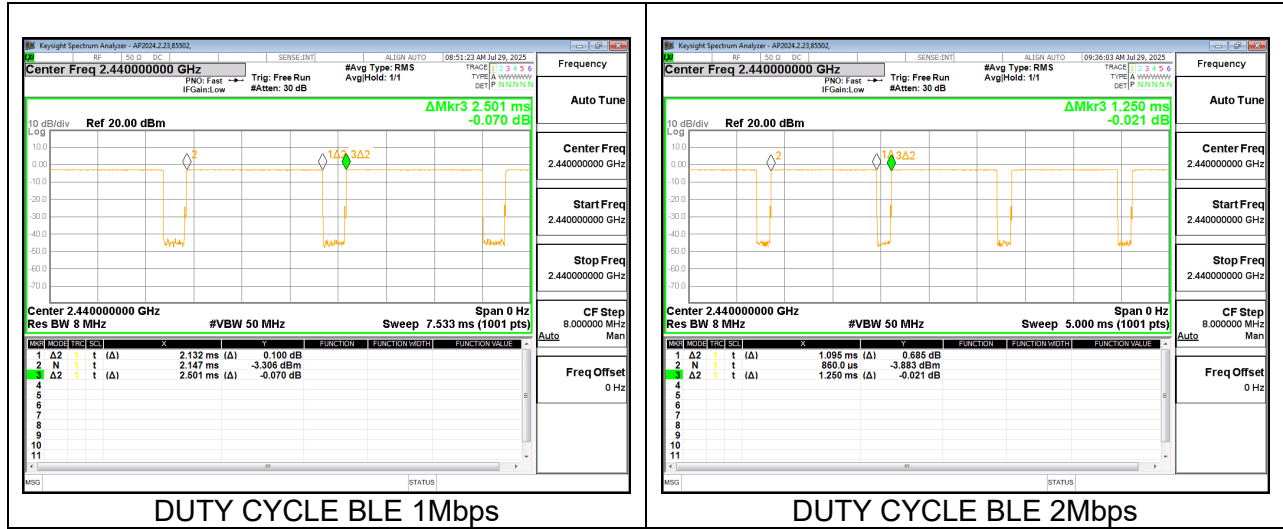
LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
BLE 1 Mbps	2.132	2.501	0.852	85.25%	1.39	0.469
BLE 2 Mbps	1.095	1.250	0.876	87.60	1.15	0.913



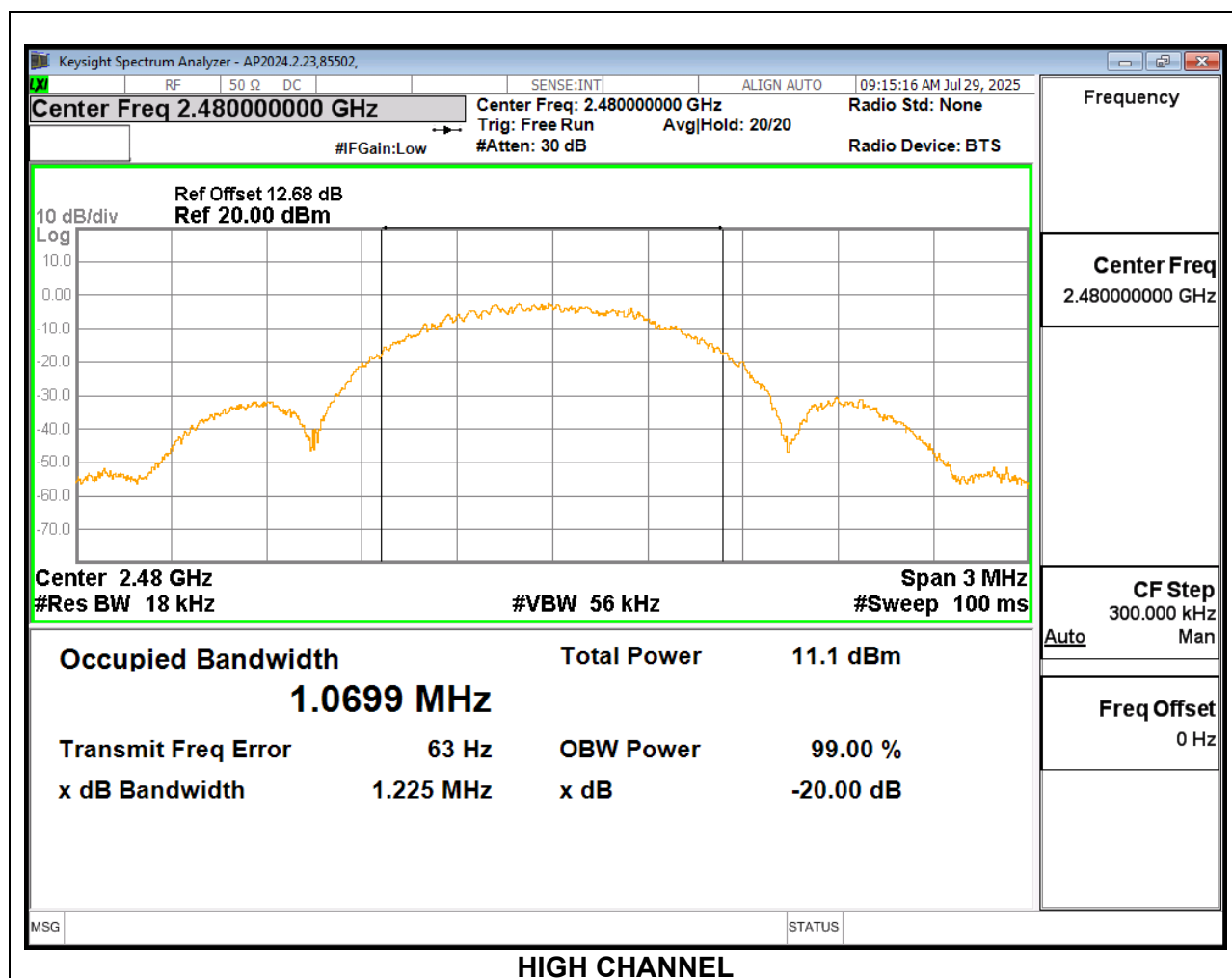
9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

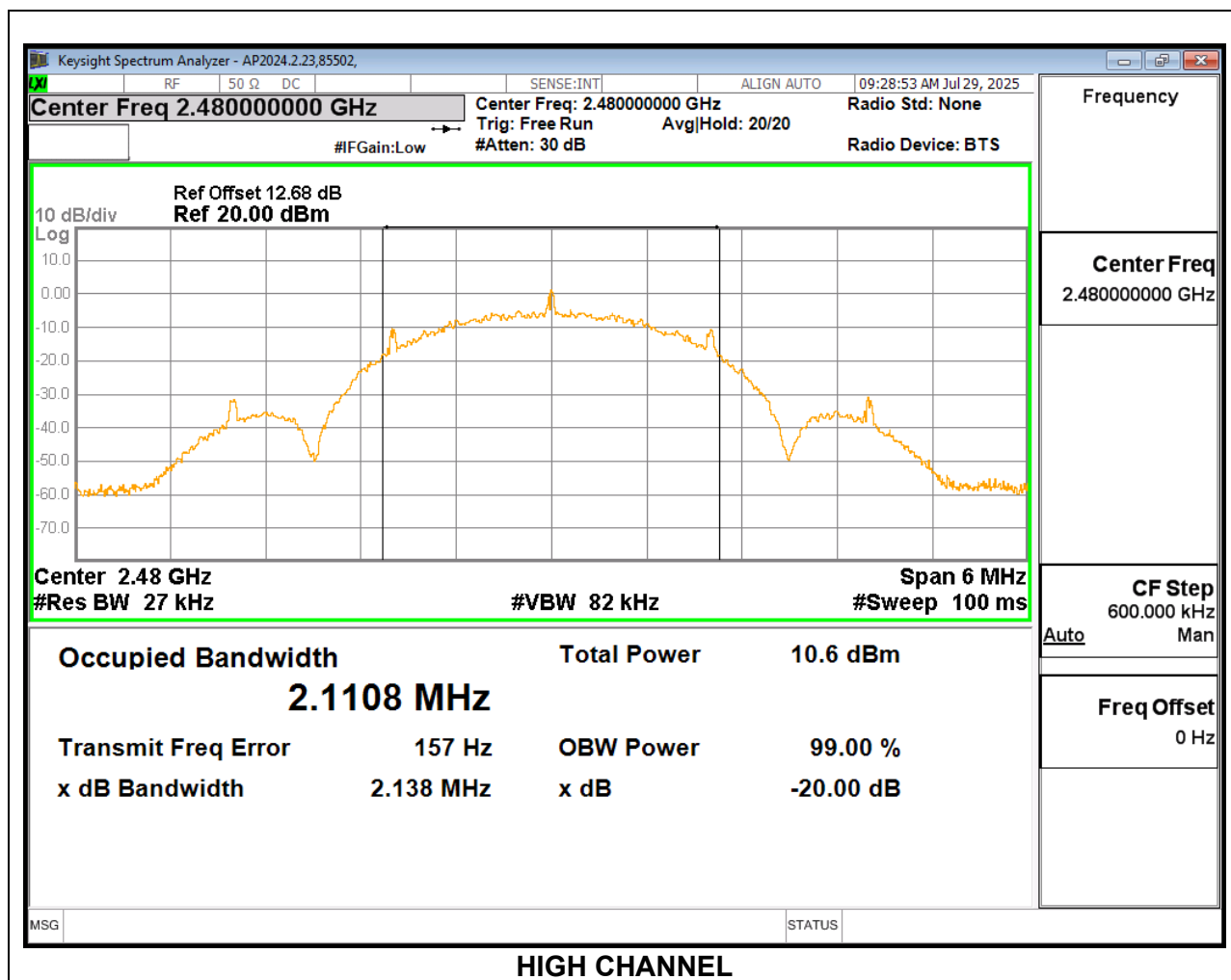
9.2.1. BLE 1Mbps MODE

Frequency (MHz)	99% Bandwidth Chain 0 (MHz)
2402	1.0644
2440	1.0680
2480	1.0699



9.2.2. BLE 2Mbps MODE

Frequency (MHz)	99% Bandwidth Chain 0 (MHz)
2402	2.1038
2440	2.1083
2480	2.1108



9.3. 6 dB BANDWIDTH

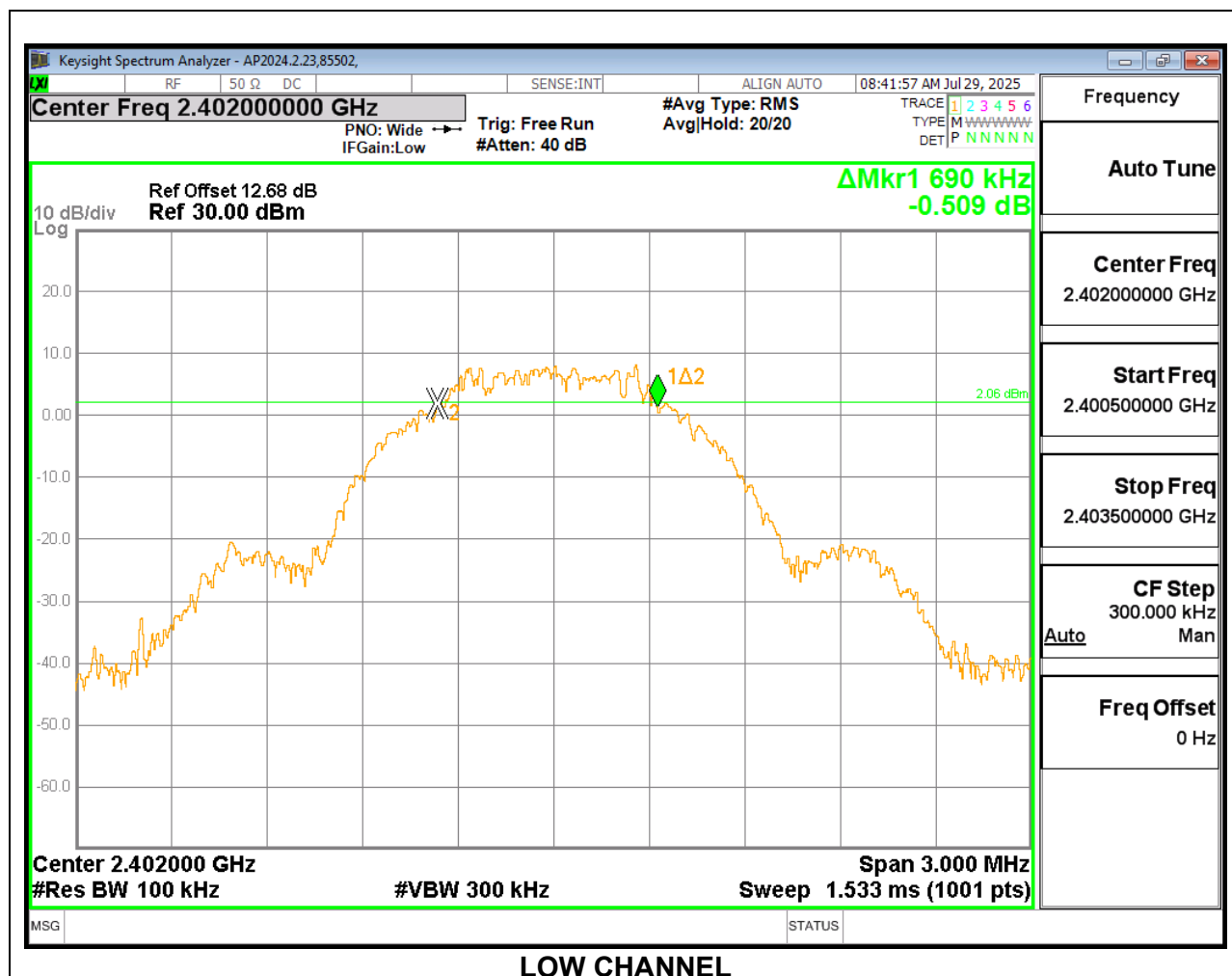
LIMITS

FCC §15.247 (a) (2)
RSS-247 6.3.1 (a)

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

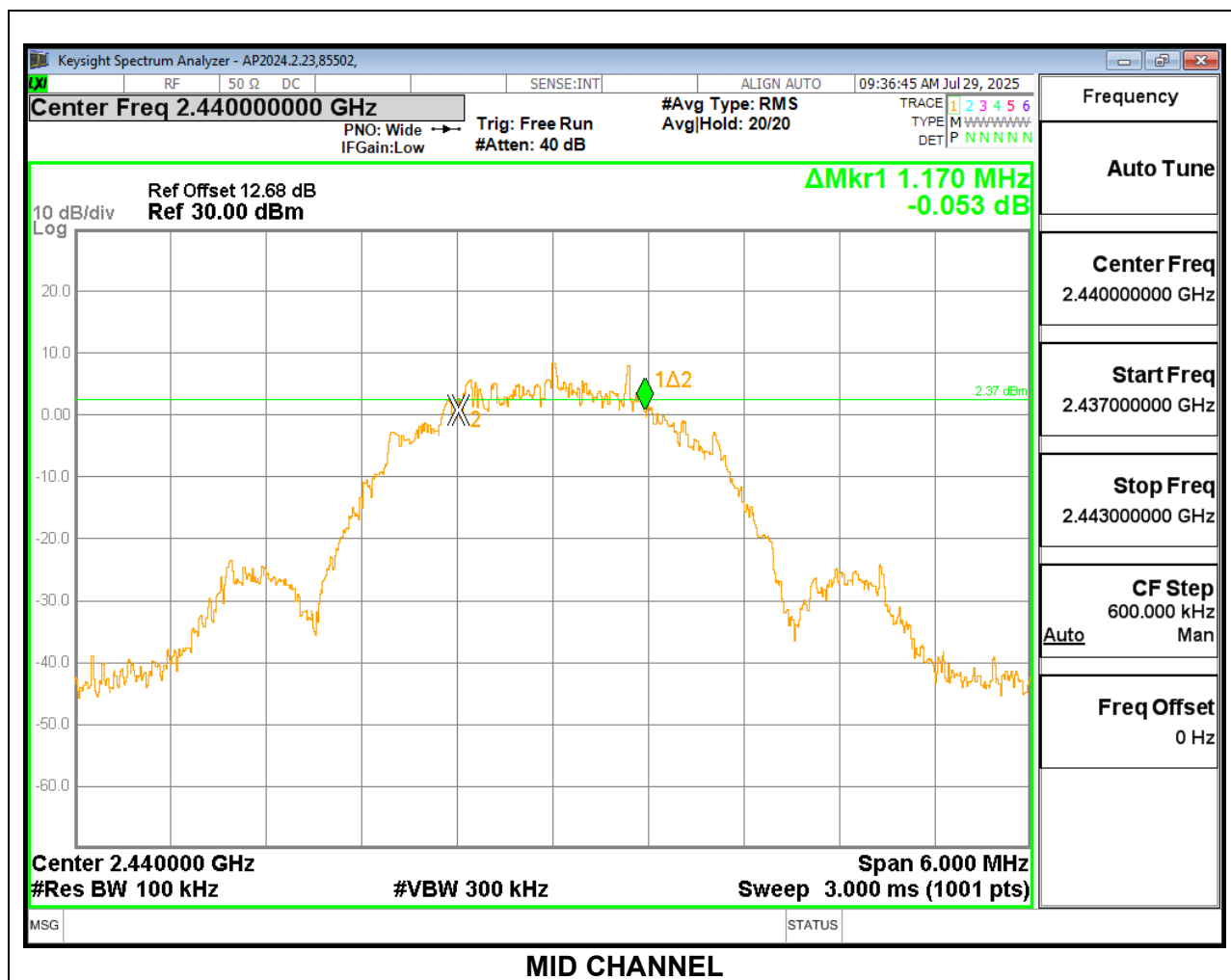
9.3.1. BLE 1Mbps MODE

Frequency (MHz)	6 dB Bandwidth Chain 0 (MHz)	Minimum Limit (MHz)
2402	0.690	0.5
2440	0.669	0.5
2480	0.687	0.5



9.3.2. BLE 2Mbps MODE

Frequency (MHz)	6 dB Bandwidth Chain 0 (MHz)	Minimum Limit (MHz)
2402	1.140	0.5
2440	1.170	0.5
2480	1.146	0.5



9.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)
RSS-247 6.3.2

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 12.68 dB (0.44 EUT cable loss, 1.94 cable loss, 10.30 cable loss) was entered as an offset in the power meter.

The power output was measured on the EUT antenna port using SMA cable connected to a power meter via wideband power sensor. Peak output power was read directly from power meter.

RESULTS

9.4.1. BLE 1Mbps MODE

Test Engineer:	85502
Test Date:	2025-08-08

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 37	2402	2.78	30.00	-27.22
Mid 17	2440	1.55	30.00	-28.45
High 39	2480	-0.03	30.00	-30.03

9.4.2. BLE 2Mbps MODE

Test Engineer:	85502
Test Date:	2025-08-08

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 37	2402	2.85	30.00	-30.43
Mid 17	2440	1.57	30.00	-25.25
High 39	2480	-0.02	30.00	-30.46

9.5. AVERAGE POWER

LIMITS

None; for reporting purposes only

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 12.68 dB (0.44 EUT cable loss, 1.94 cable loss, 10.30 cable loss) was entered as an offset in the power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband power sensor. Gated average output power was read directly from power meter.

9.5.1. BLE 1Mbps Mode

Test Engineer:	85502
Test Date:	2025-08-08

Frequency (MHz)	Chain 0 Meas Power (dBm)
2402	2.51
2440	1.27
2480	-0.40

9.5.2. BLE 2Mbps Mode

Test Engineer:	85502
Test Date:	2025-08-08

Frequency (MHz)	Chain 0 Meas Power (dBm)
2402	2.44
2440	1.20
2480	-0.48

9.6. POWER SPECTRAL DENSITY

LIMITS

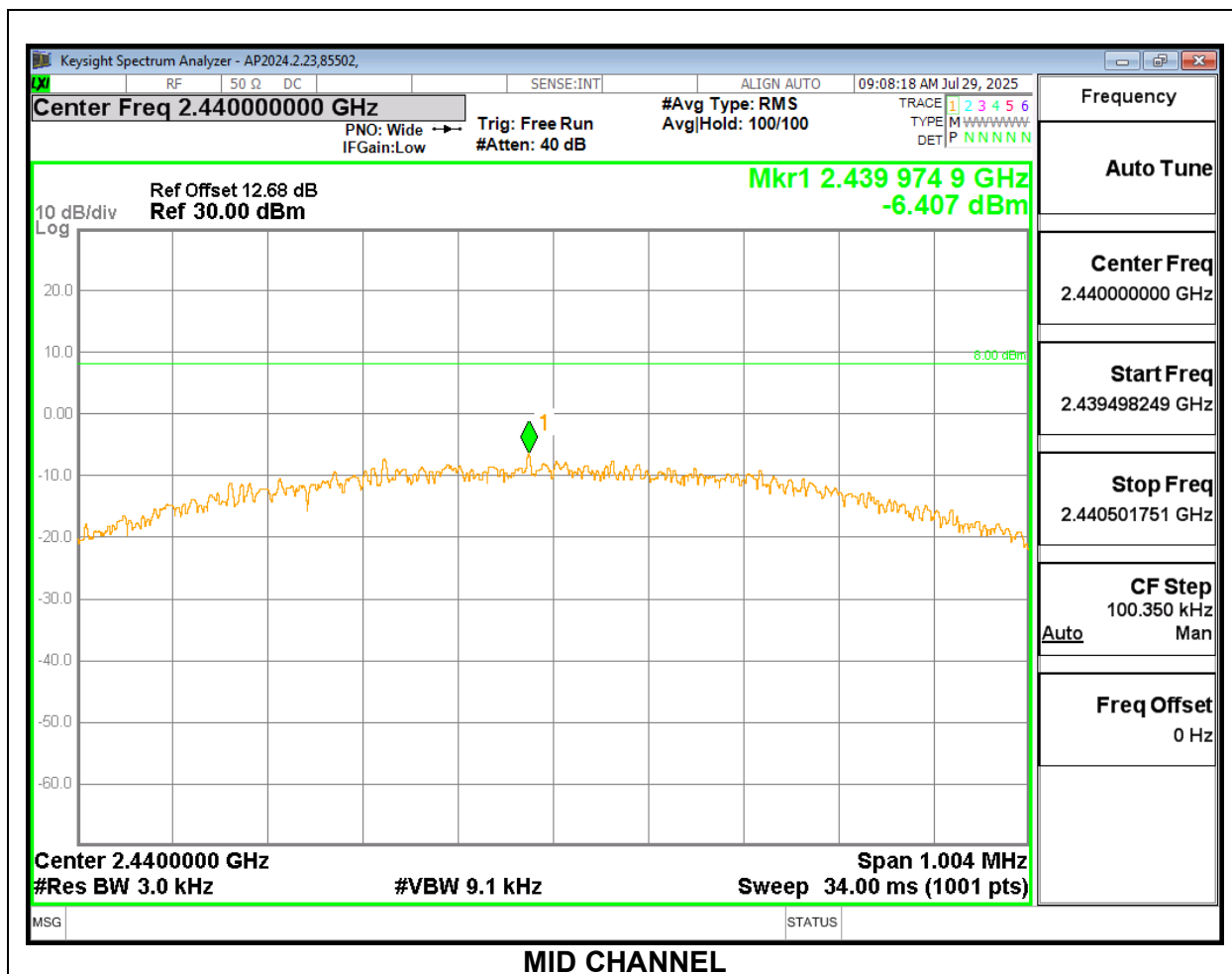
FCC §15.247 (e)
RSS-247 6.3.1 (b)

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.

9.6.1. BLE 1Mbps MODE

PSD Results

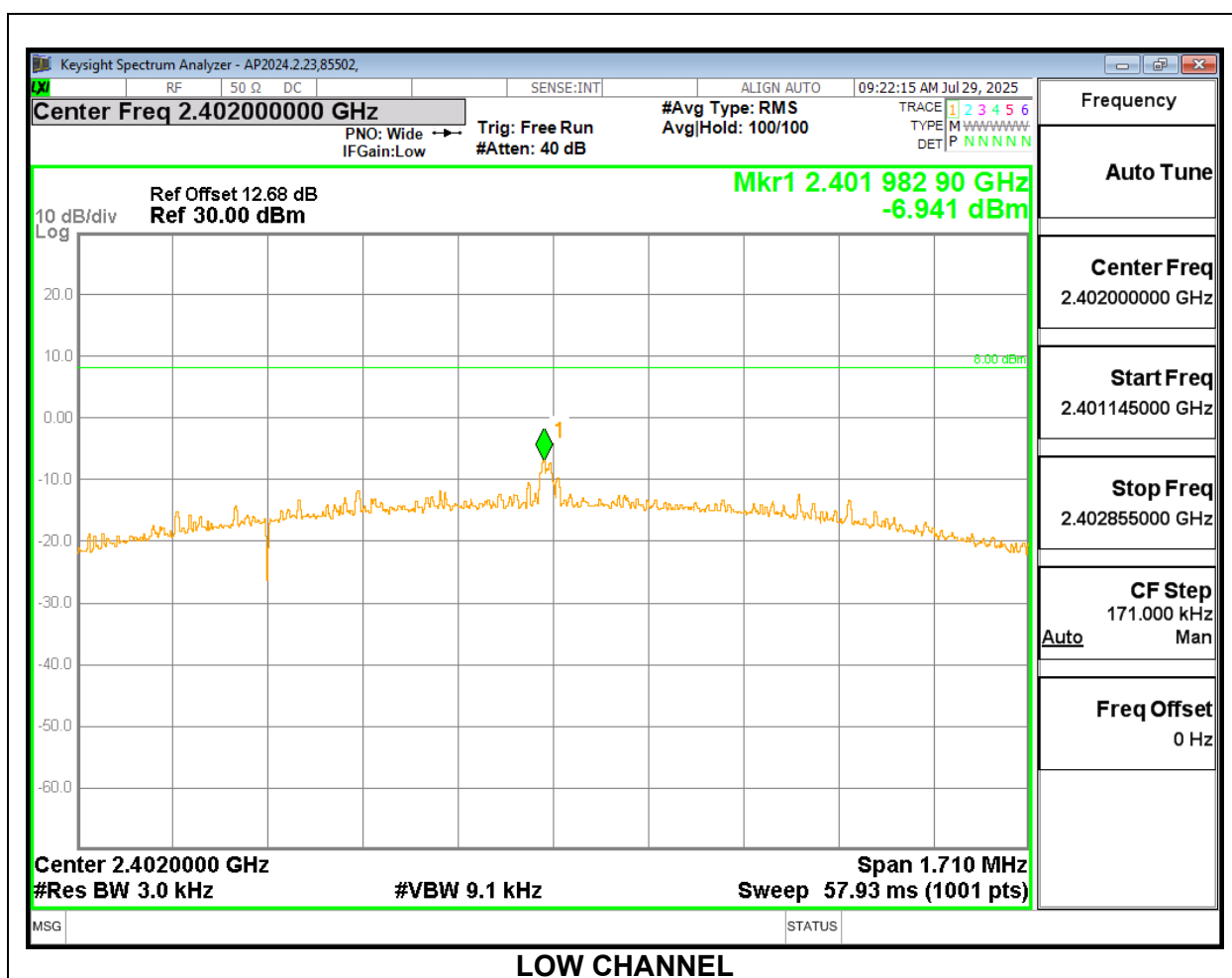
Channel	Frequency (MHz)	Chain 0 Meas (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 37	2402	-6.48	8.0	-14.5
Mid 17	2440	-6.41	8.0	-14.4
High 39	2480	-7.29	8.0	-15.3



9.6.2. BLE 2Mbps MODE

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 37	2402	-6.94	8.0	-14.9
Mid 17	2440	-6.97	8.0	-15.0
High 39	2480	-7.90	8.0	-15.9



9.7. CONDUCTED SPURIOUS EMISSIONS

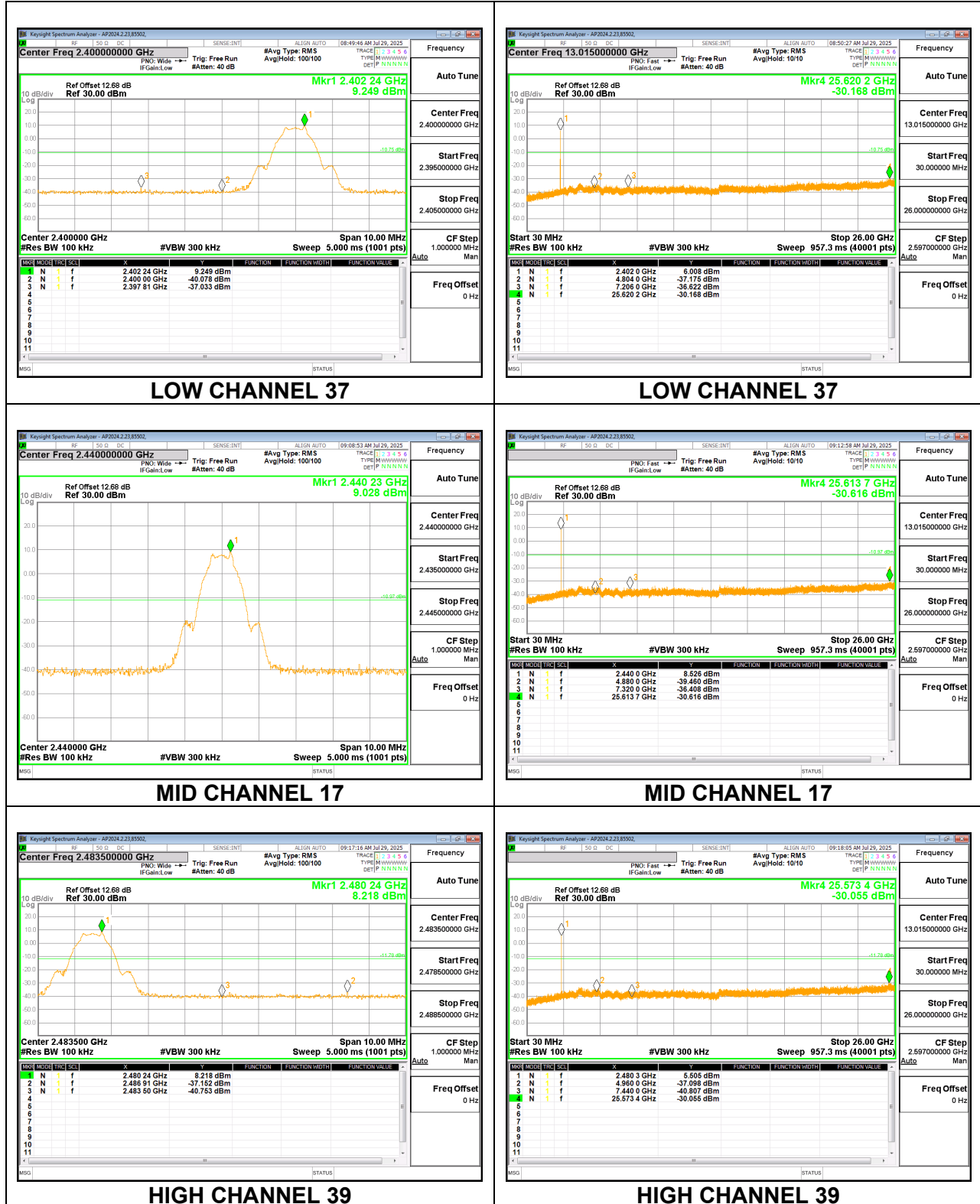
LIMITS

FCC §15.247 (d)
RSS-247 6.6

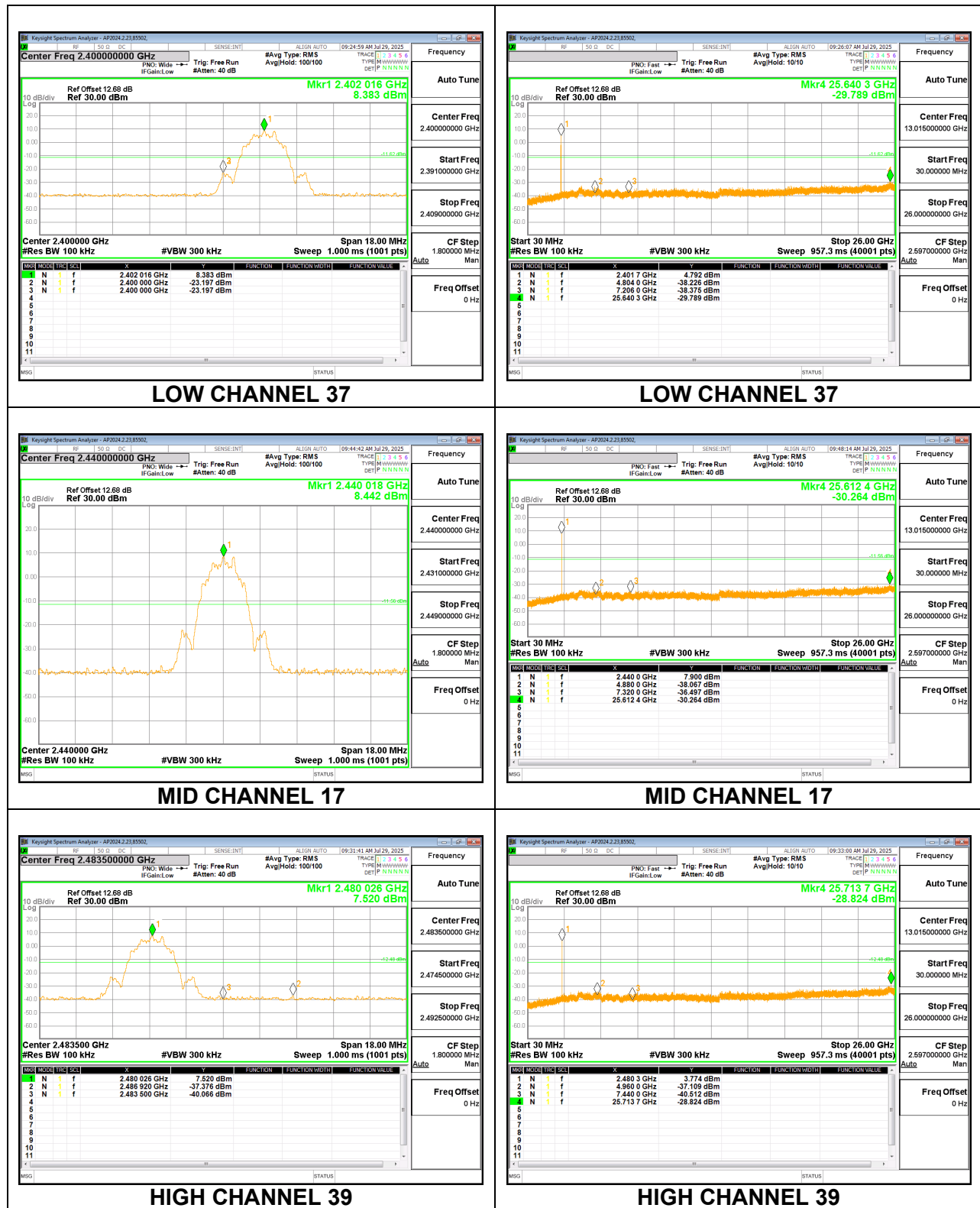
Output power was measured based on the use of peak measurement, therefore the required attenuation is -20 dBc.

RESULTS

9.7.1. BLE 1Mbps MODE



9.7.2. BLE 2Mbps MODE



10. RADIATED TEST RESULTS

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

IC RSS-GEN Clause 8.9 and 8.10

Frequency Range (kHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz for peak measurements.

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

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to low, middle, and high channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest PSD 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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base 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

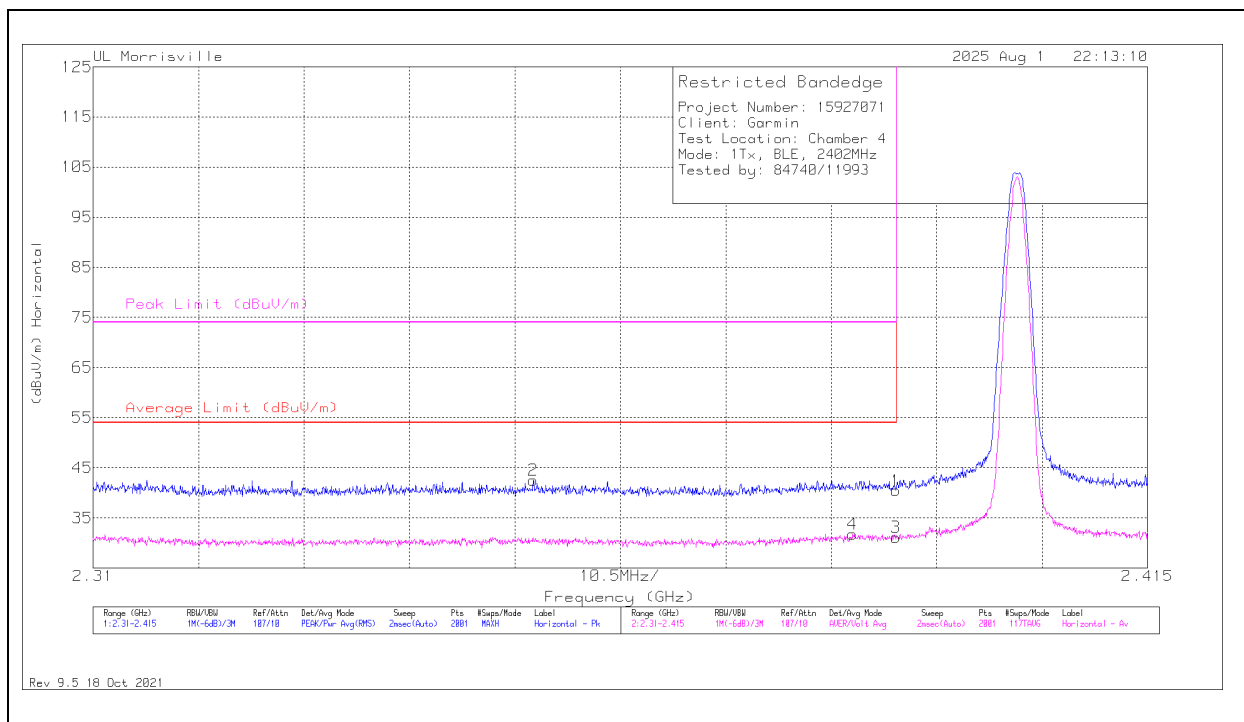
OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz BLE 1Mbps MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL, 2402MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	31.45	Pk	32	-23	0	40.45	-	-	74	-33.55	218	264	H
2	*** 2.35384	34.08	Pk	31.8	-23.4	0	42.48	-	-	74	-31.52	218	264	H
3	*** 2.38996	20.71	ADV	32	-23	1.39	31.1	54	-22.9	-	-	218	264	H
4	*** 2.38565	21.2	ADV	32	-22.8	1.39	31.79	54	-22.21	-	-	218	264	H

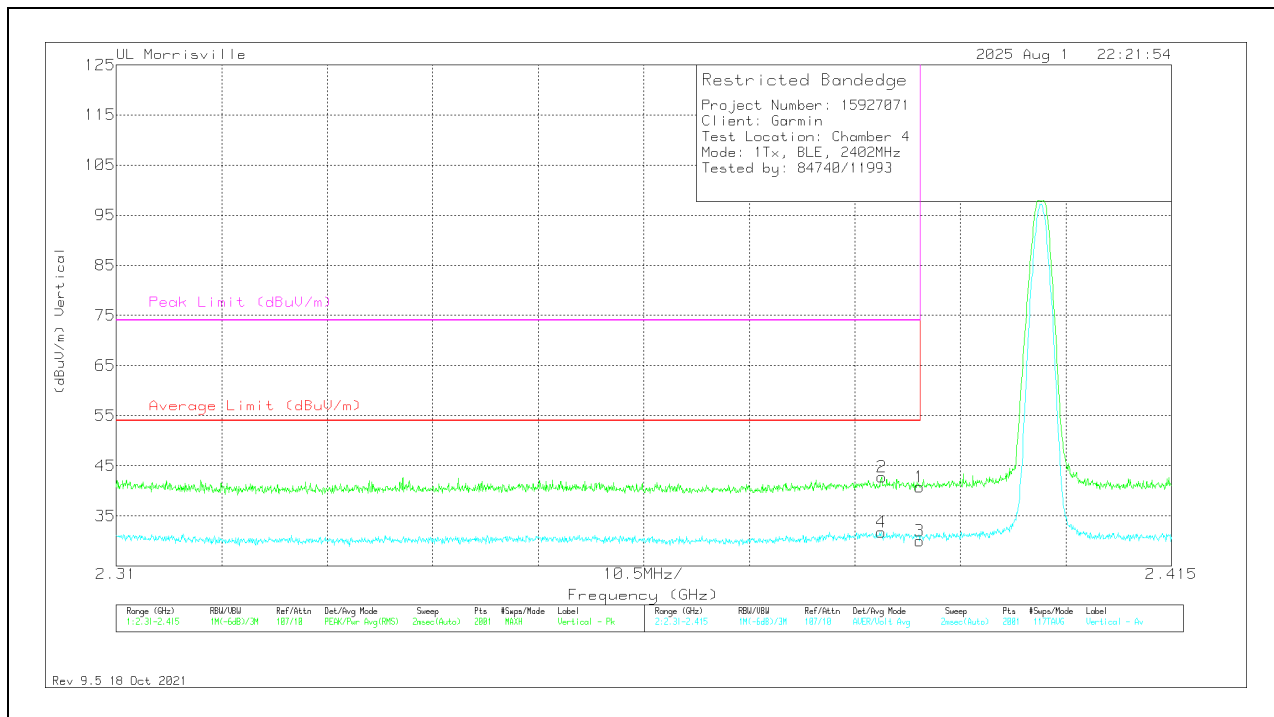
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	31.76	Pk	32	-23	0	40.76	-	-	74	-33.24	250	391	V
2	*** 2.38618	33.63	Pk	32	-22.9	0	42.73	-	-	74	-31.27	250	391	V
3	*** 2.38996	19.58	ADV	32	-23	1.39	29.97	54	-24.03	-	-	250	391	V
4	*** 2.38613	21.25	ADV	32	-22.9	1.39	31.74	54	-22.26	-	-	250	391	V

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

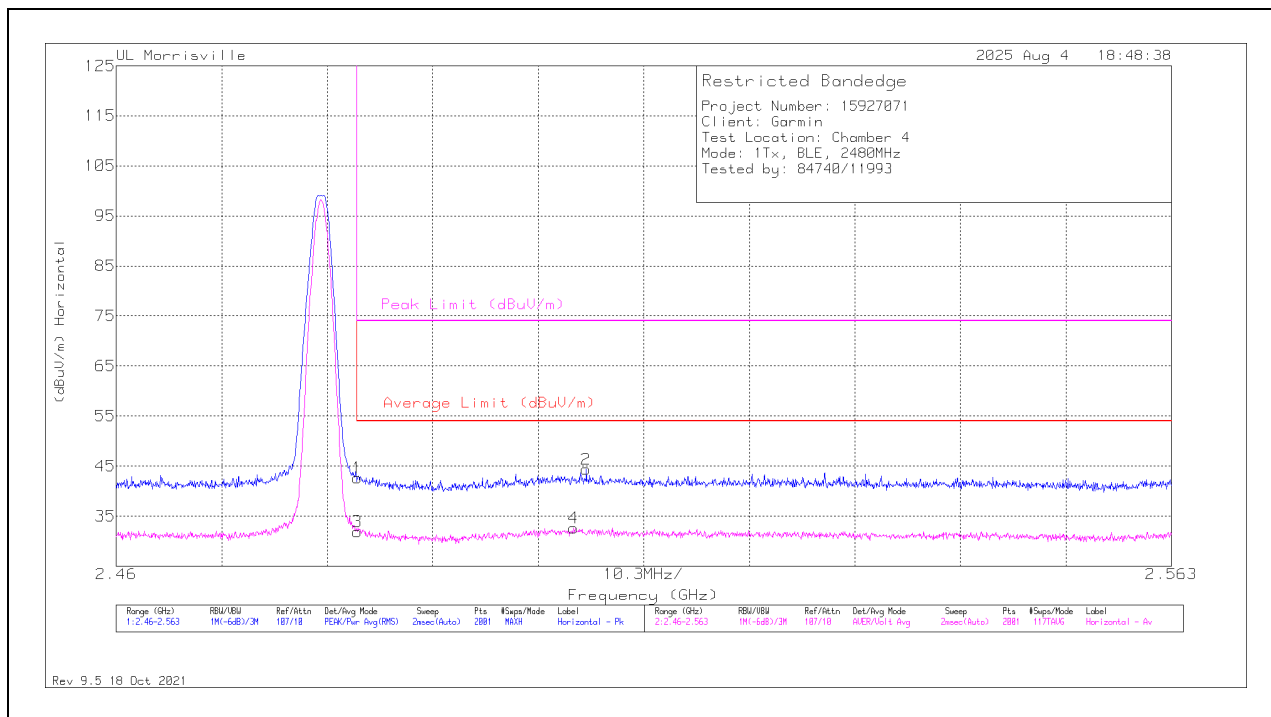
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, 2480MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	33.53	Pk	32.3	-23.2	0	42.63	-	-	74	-31.37	262	202	H
2	** 2.50589	34.24	Pk	32.4	-22.3	0	44.34	-	-	74	-29.66	262	202	H
3	* ** 2.48354	21.35	ADV	32.3	-23.2	1.39	31.84	54	-22.16	-	-	262	202	H
4	** 2.50465	21.09	ADV	32.4	-22.2	1.39	32.68	54	-21.32	-	-	262	202	H

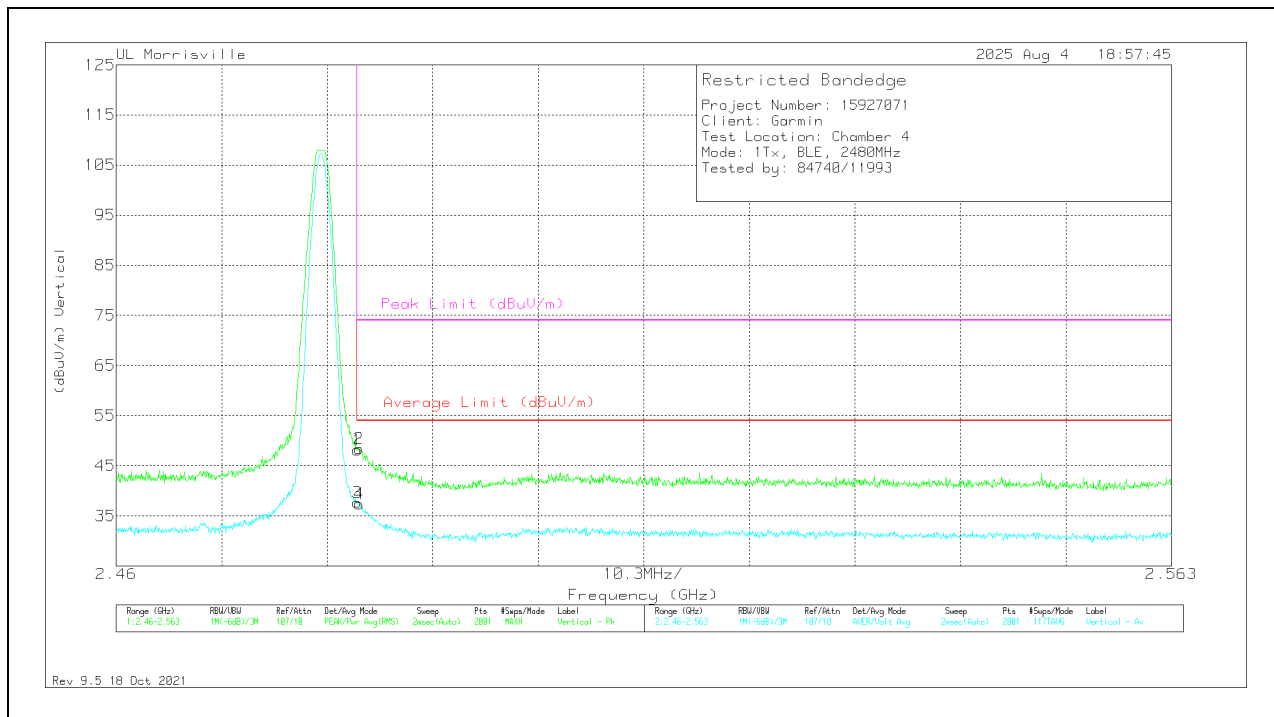
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	39.03	Pk	32.3	-23.2	0	48.13	-	-	74	-25.87	252	139	V
2	*** 2.48369	39.33	Pk	32.3	-23.2	0	48.43	-	-	74	-25.57	252	139	V
3	*** 2.48354	27.2	ADV	32.3	-23.2	1.39	37.69	54	-16.31	-	-	252	139	V
4	*** 2.48374	26.85	ADV	32.3	-23.2	1.39	37.34	54	-16.66	-	-	252	139	V

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

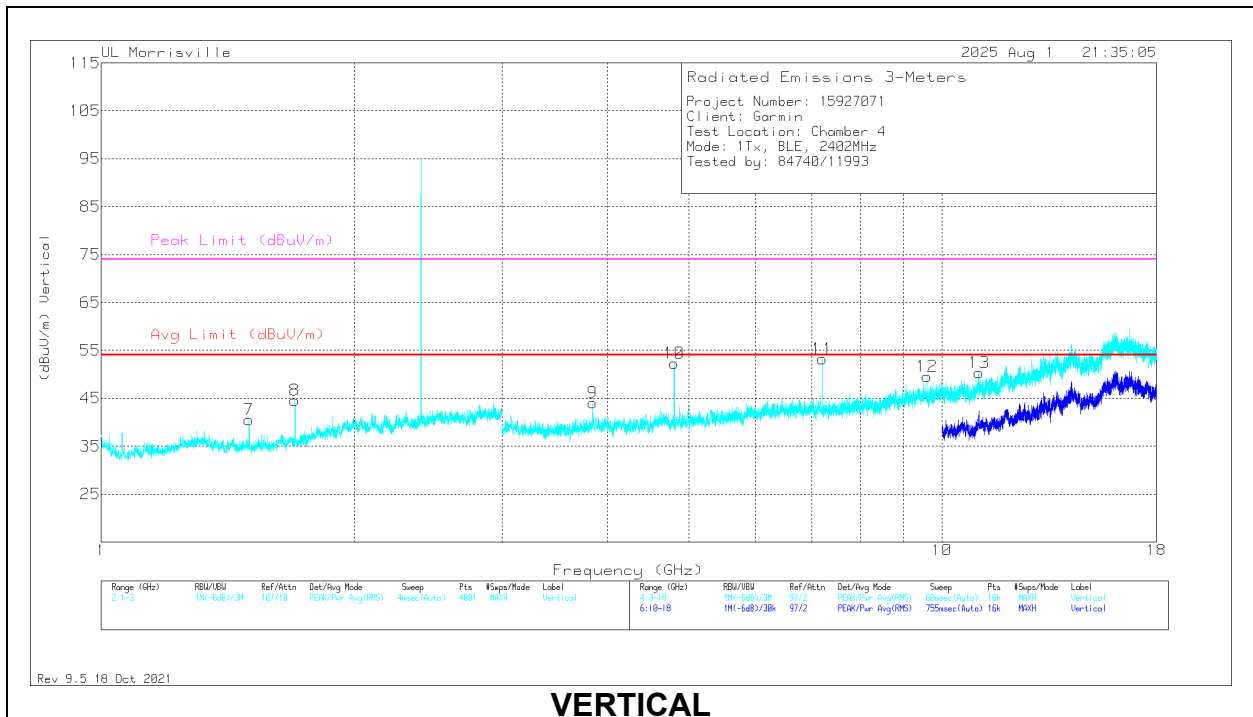
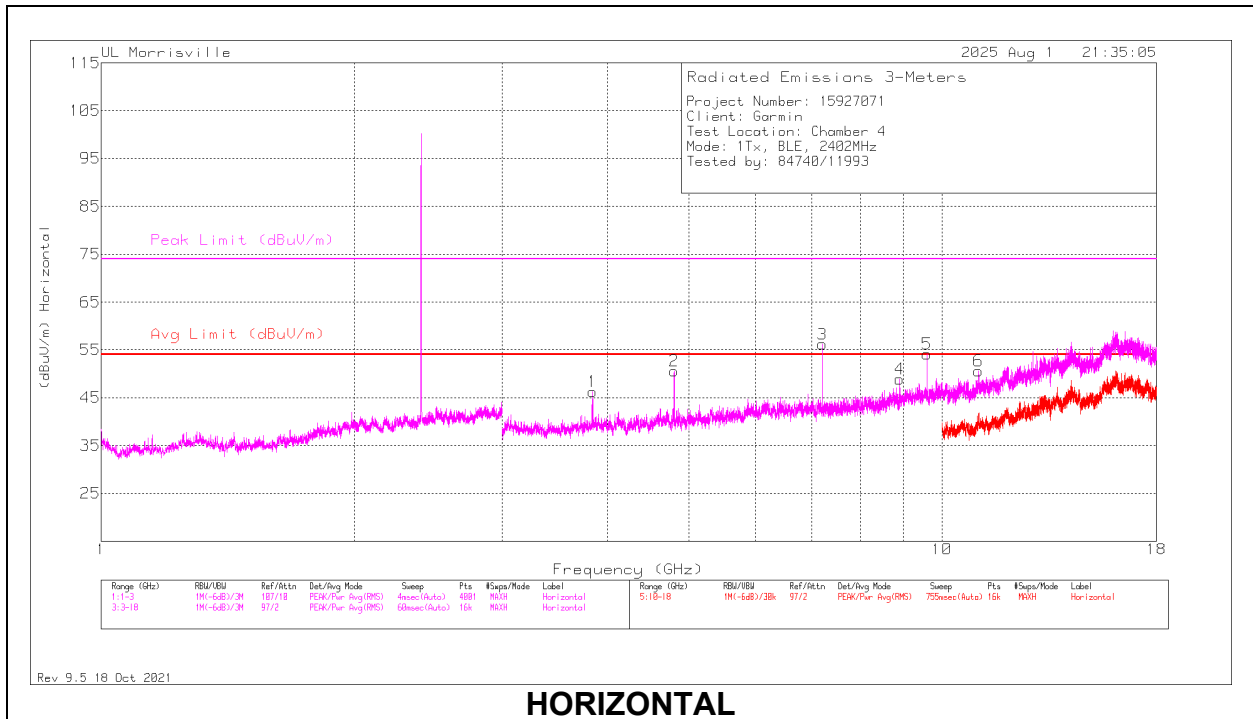
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	* ** 1.5	36.92	Pk	27.8	-24.2	0	40.52	54	-13.48	74	-33.48	0-360	200	V
8	* ** 1.7	40.02	Pk	29	-24.4	0	44.62	54	-9.38	74	-29.38	0-360	200	V
1	* ** 3.84281	46.53	Pk	33.5	-33.7	0	46.33	54	-7.67	74	-27.67	0-360	100	H
2	* ** 4.80346	49.6	PK2	33.9	-32.5	0	51	-	-	74	-23	217	104	H
	* ** 4.80405	42.28	ADV	33.9	-32.5	1.39	45.07	54	-8.93	-	-	217	104	H
6	* ** 11.05779	35.26	PK2	37.8	-22.4	0	50.66	-	-	74	-23.34	329	218	H
	* ** 11.05922	23.09	ADV	37.8	-22.2	1.39	40.08	54	-13.92	-	-	329	218	H
9	* ** 3.84281	44.22	Pk	33.5	-33.7	0	44.02	54	-9.98	74	-29.98	0-360	200	V
10	* ** 4.80443	51.66	PK2	33.9	-32.5	0	53.06	-	-	74	-20.94	195	197	V
	* ** 4.80423	44.64	ADV	33.9	-32.5	1.39	47.43	54	-6.57	-	-	195	197	V
13	* ** 11.06992	35.87	PK2	37.8	-23.2	0	50.47	-	-	74	-23.53	306	198	V
	* ** 11.0681	23.1	ADV	37.8	-22.7	1.39	39.59	54	-14.41	-	-	306	198	V
3	7.20656	49.07	Pk	35.5	-28.4	0	56.17	-	-	-	-	0-360	100	H
11	7.20656	46.16	Pk	35.5	-28.4	0	53.26	-	-	-	-	0-360	200	V
4	8.91094	38.23	Pk	36	-25.3	0	48.93	-	-	-	-	0-360	100	H
5	9.60844	42.37	Pk	36.6	-24.8	0	54.17	-	-	-	-	0-360	100	H
12	9.60938	37.76	Pk	36.6	-24.8	0	49.56	-	-	-	-	0-360	200	V

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

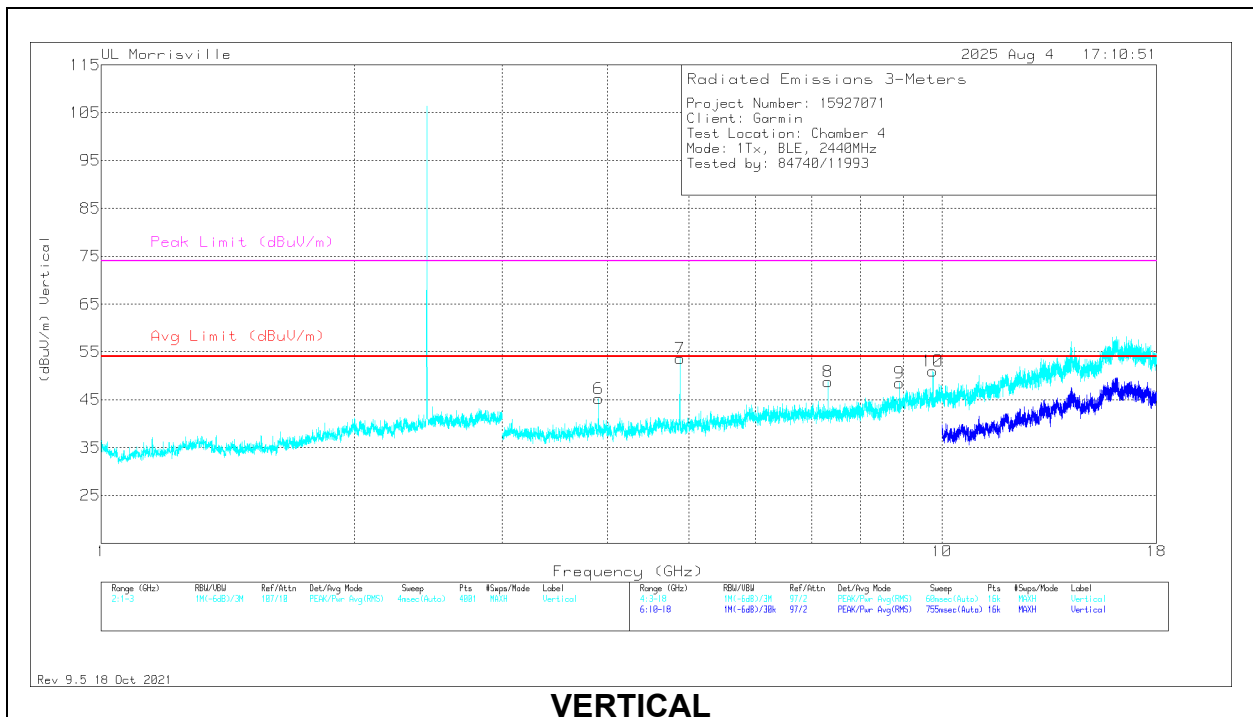
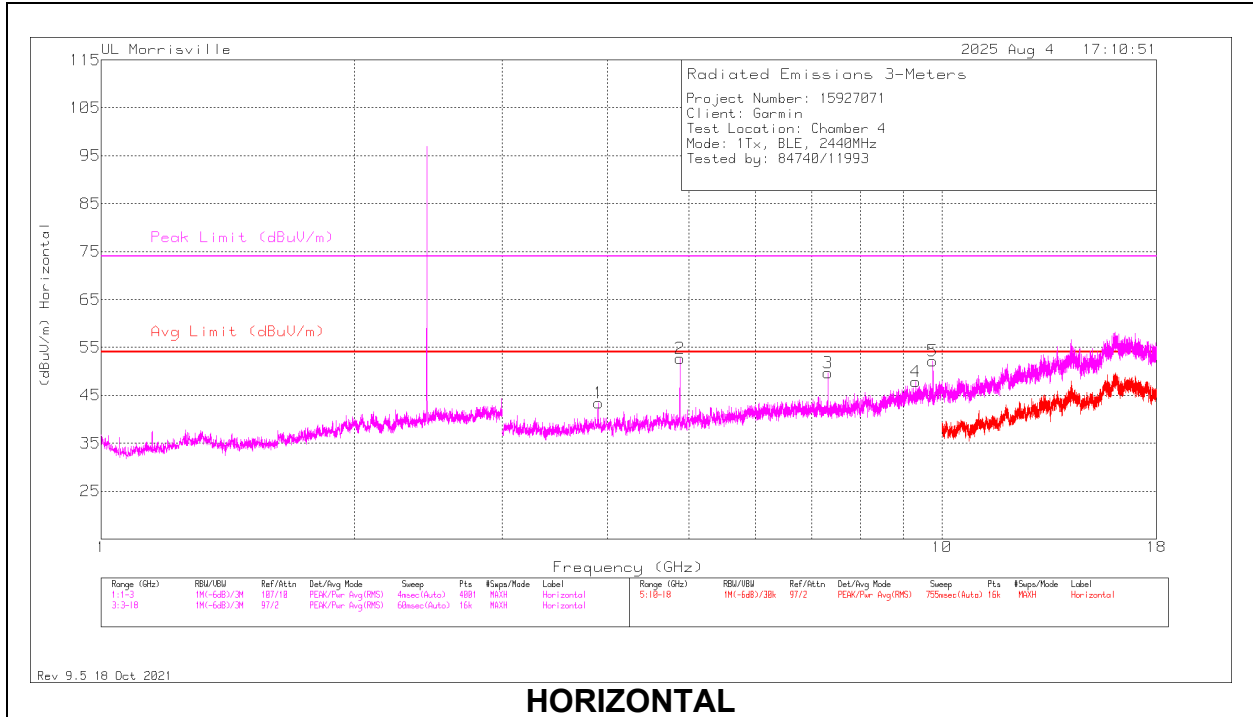
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.90375	42.56	Pk	33.4	-32.6	0	43.36	54	-10.64	74	-30.64	0-360	100	H
2	*** 4.88048	52.95	PK2	33.9	-31.5	0	55.35	-	-	74	-18.65	229	132	H
	*** 4.87979	46.35	ADV	33.9	-31.5	1.39	50.14	54	-3.86	-	-	229	132	H
3	*** 7.31922	44.77	PK2	35.5	-28.5	0	51.77	-	-	74	-22.23	250	102	H
	*** 7.32059	35.78	ADV	35.5	-28.5	1.39	44.17	54	-9.83	-	-	250	102	H
4	*** 9.30469	35.92	Pk	36.3	-24.4	0	47.82	54	-6.18	74	-26.18	0-360	100	H
6	*** 3.90375	44.4	Pk	33.4	-32.6	0	45.2	54	-8.8	74	-28.8	0-360	200	V
7	*** 4.88049	53.17	PK2	33.9	-31.5	0	55.57	-	-	74	-18.43	242	193	V
	*** 4.87974	46.83	ADV	33.9	-31.5	1.39	50.62	54	-3.38	-	-	242	193	V
8	*** 7.31931	45.57	PK2	35.5	-28.5	0	52.57	-	-	74	-21.43	189	217	V
	*** 7.31939	36.86	ADV	35.5	-28.5	1.39	45.25	54	-8.75	-	-	189	217	V
9	8.91	37.89	Pk	36	-25.4	0	48.49	-	-	-	-	0-360	200	V
5	9.75938	41.06	Pk	36.8	-25.7	0	52.16	-	-	-	-	0-360	100	H
10	9.75938	39.91	Pk	36.8	-25.7	0	51.01	-	-	-	-	0-360	200	V

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

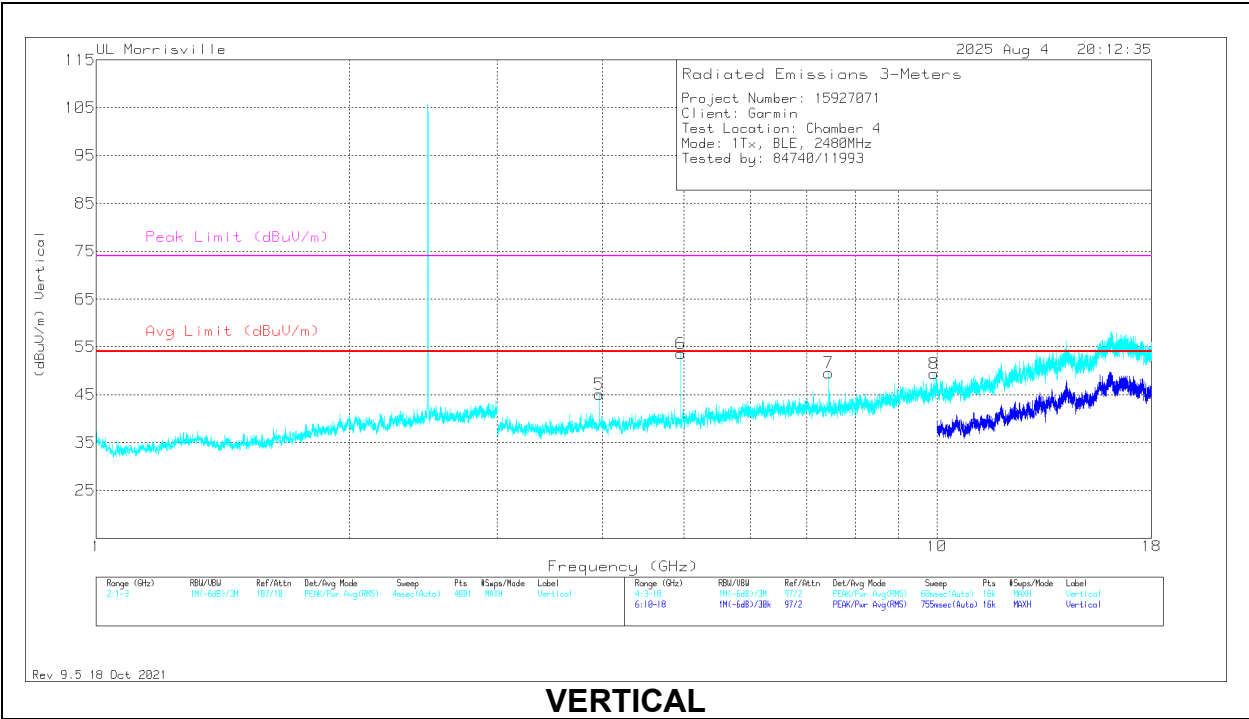
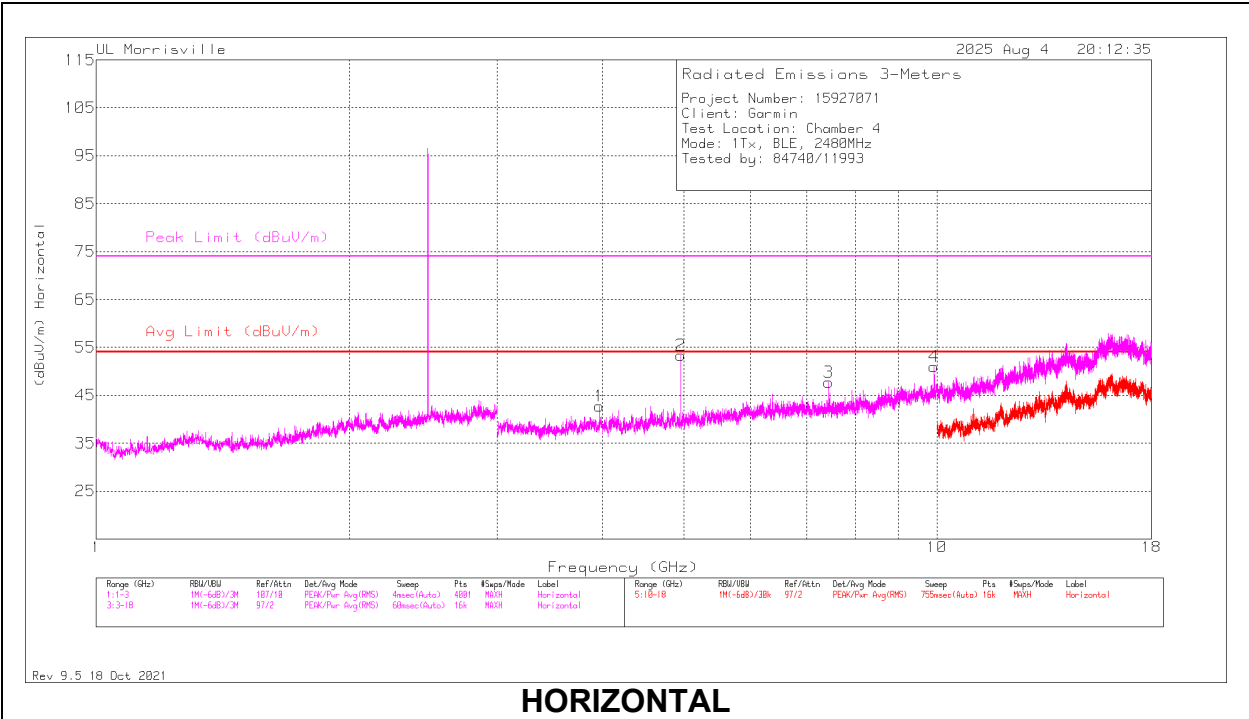
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.9675	41.9	Pk	33.4	-32.6	0	42.7	54	-11.3	74	-31.3	0-360	100	H
2	* ** 4.9595	52.72	PK2	33.8	-31.8	0	54.72	-	-	74	-19.28	197	101	H
	* ** 4.95992	46.35	ADV	33.8	-31.8	1.39	49.74	54	-4.26	-	-	197	101	H
3	* ** 7.44	40.27	Pk	35.6	-28.1	0	47.77	54	-6.23	74	-26.23	0-360	100	H
5	* ** 3.9675	44.3	Pk	33.4	-32.6	0	45.1	54	-8.9	74	-28.9	0-360	200	V
6	* ** 4.96038	53.86	PK2	33.8	-31.7	0	55.96	-	-	74	-18.04	260	248	V
	* ** 4.95978	47.6	ADV	33.8	-31.8	1.39	50.99	54	-3.01	-	-	260	248	V
7	* ** 7.4406	46.75	PK2	35.6	-28.2	0	54.15	-	-	74	-19.85	220	186	V
	* ** 7.4394	38.64	ADV	35.6	-28.1	1.39	47.53	54	-6.47	-	-	220	186	V
4	9.91875	39.75	Pk	37	-25.8	0	50.95	-	-	-	-	0-360	100	H
8	9.92156	38.03	Pk	37	-25.6	0	49.43	-	-	-	-	0-360	200	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

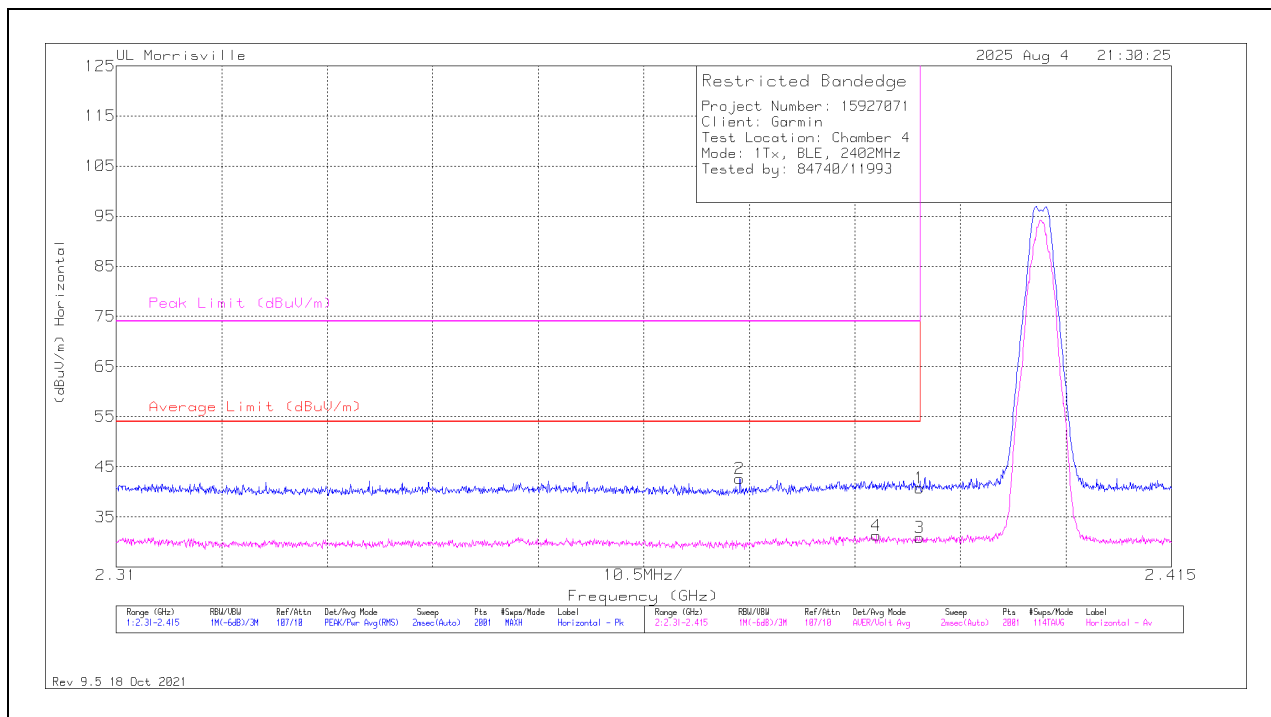
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.1.2. TX ABOVE 1 GHz BLE 2Mbps MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL, 2402MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38996	31.77	Pk	32	-23	0	40.77	-	-	74	-33.23	191	101	H
2	* ** 2.37206	34.6	Pk	31.9	-23.9	0	42.6	-	-	74	-31.4	191	101	H
3	* ** 2.38996	20.74	ADV	32	-23	1.15	30.89	54	-23.11	-	-	191	100	H
4	* ** 2.3856	20.96	ADV	32	-22.8	1.15	31.31	54	-22.69	-	-	191	100	H

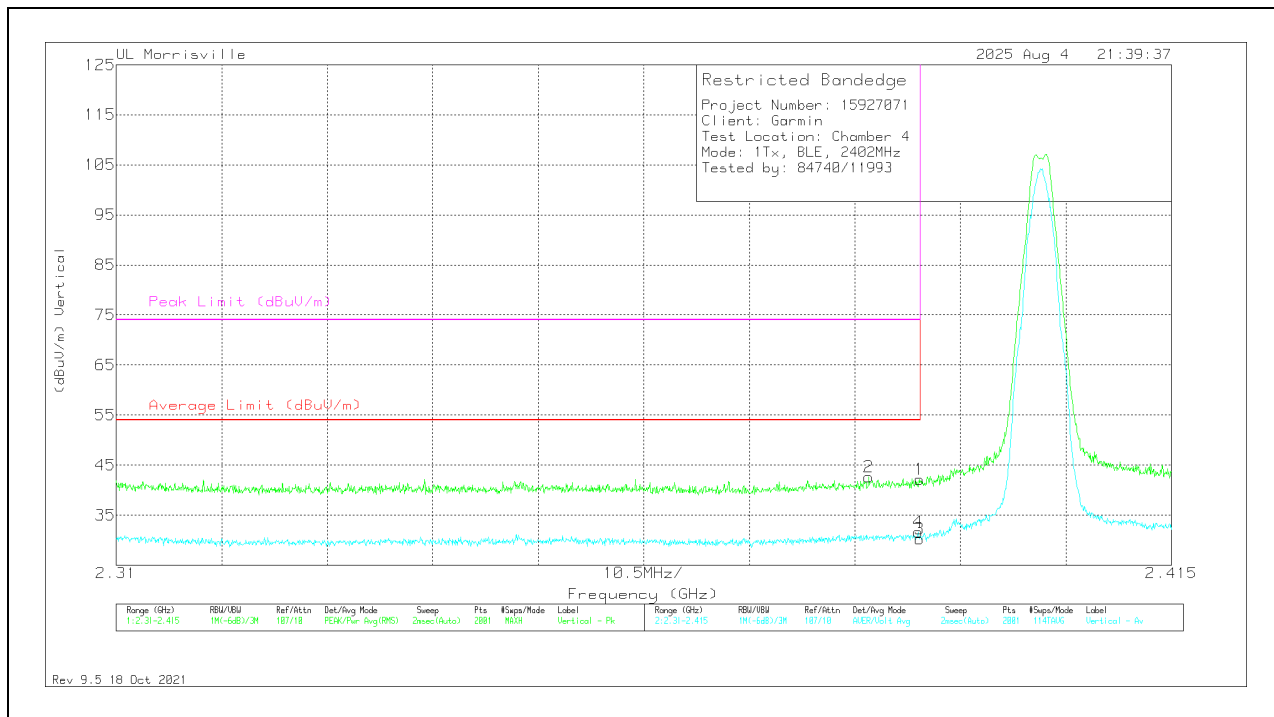
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	33.17	Pk	32	-23	0	42.17	-	-	74	-31.83	248	134	V
2	*** 2.38487	33.53	Pk	32	-22.9	0	42.63	-	-	74	-31.37	248	134	V
3	*** 2.38996	20.15	ADV	32	-23	1.15	30.3	54	-23.7	-	-	248	134	V
4	*** 2.3898	21.48	ADV	32	-23	1.15	31.63	54	-22.37	-	-	248	134	V

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

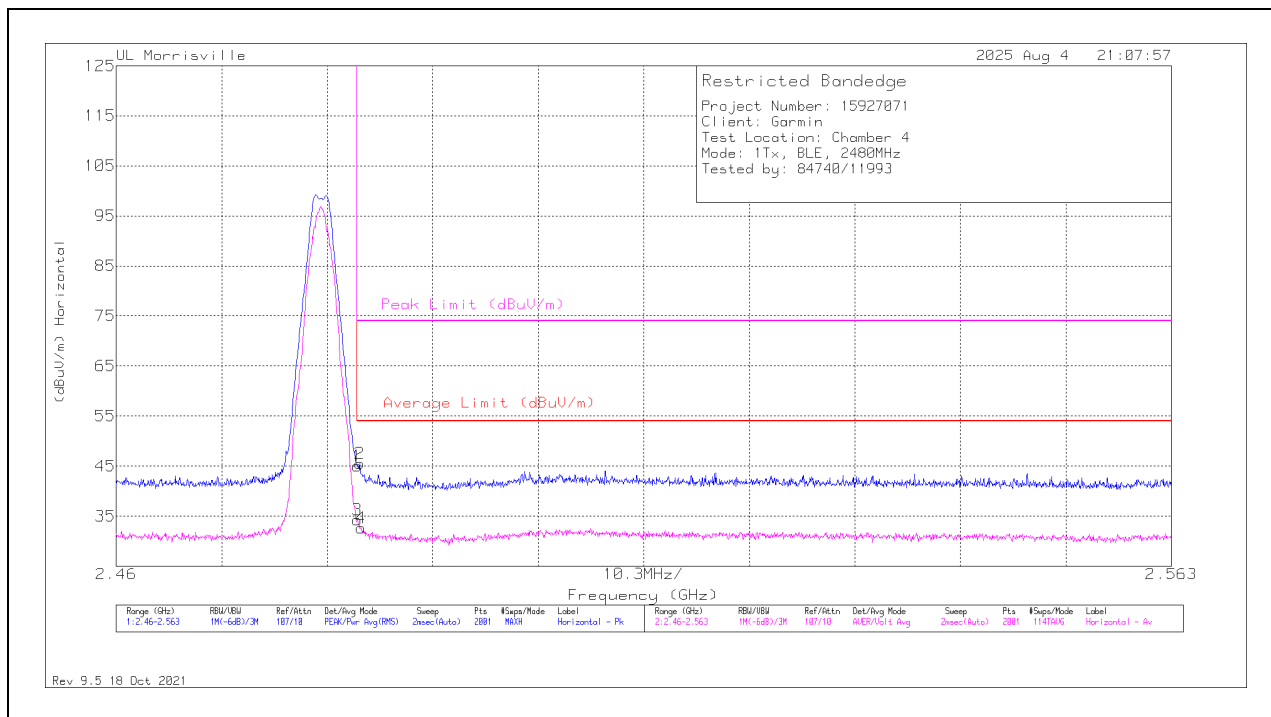
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL, 2480MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	35.96	Pk	32.3	-23.2	0	45.06	-	-	74	-28.94	262	203	H
2	* ** 2.48379	36.38	Pk	32.3	-23.2	0	45.48	-	-	74	-28.52	262	203	H
3	* ** 2.48354	24	ADV	32.3	-23.2	1.15	34.25	54	-19.75	-	-	262	203	H
4	* ** 2.4839	22.37	ADV	32.3	-23.2	1.15	32.62	54	-21.38	-	-	262	203	H

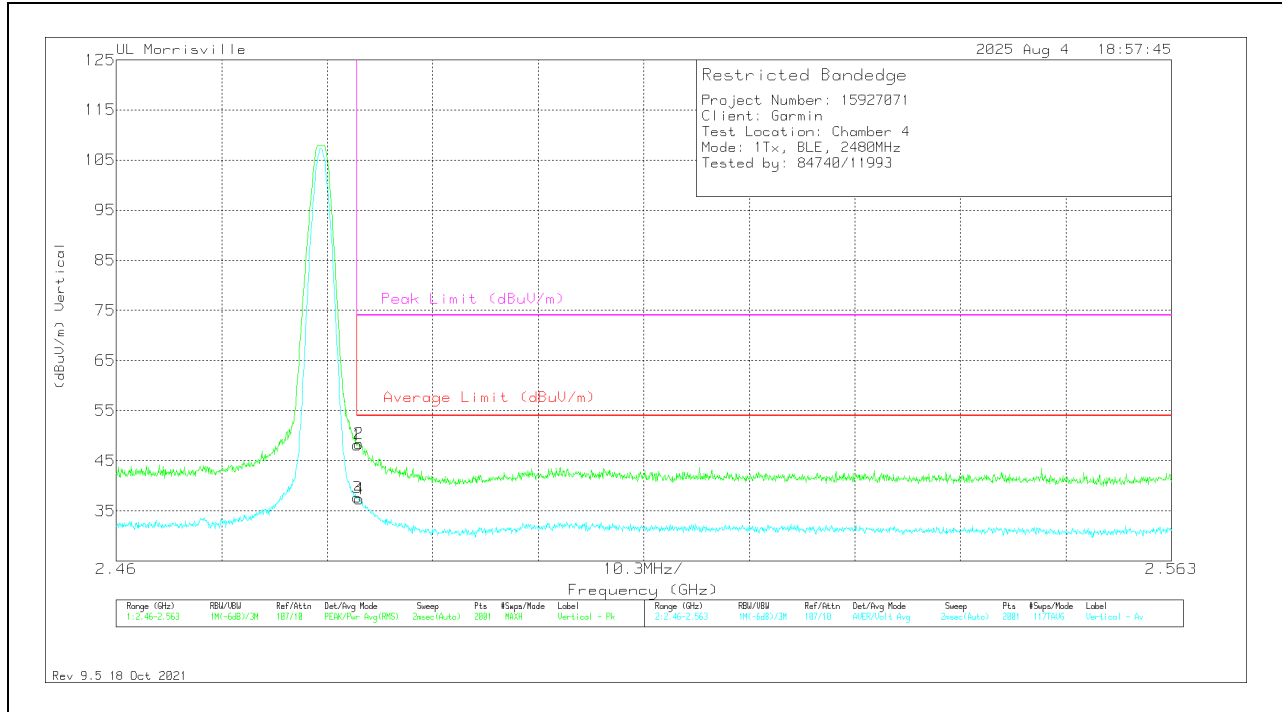
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	39.03	Pk	32.3	-23.2	0	48.13	-	-	74	-25.87	252	139	V
2	*** 2.48369	39.33	Pk	32.3	-23.2	0	48.43	-	-	74	-25.57	252	139	V
3	*** 2.48354	27.2	ADV	32.3	-23.2	1.39	37.69	54	-16.31	-	-	252	139	V
4	*** 2.48374	26.85	ADV	32.3	-23.2	1.39	37.34	54	-16.66	-	-	252	139	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

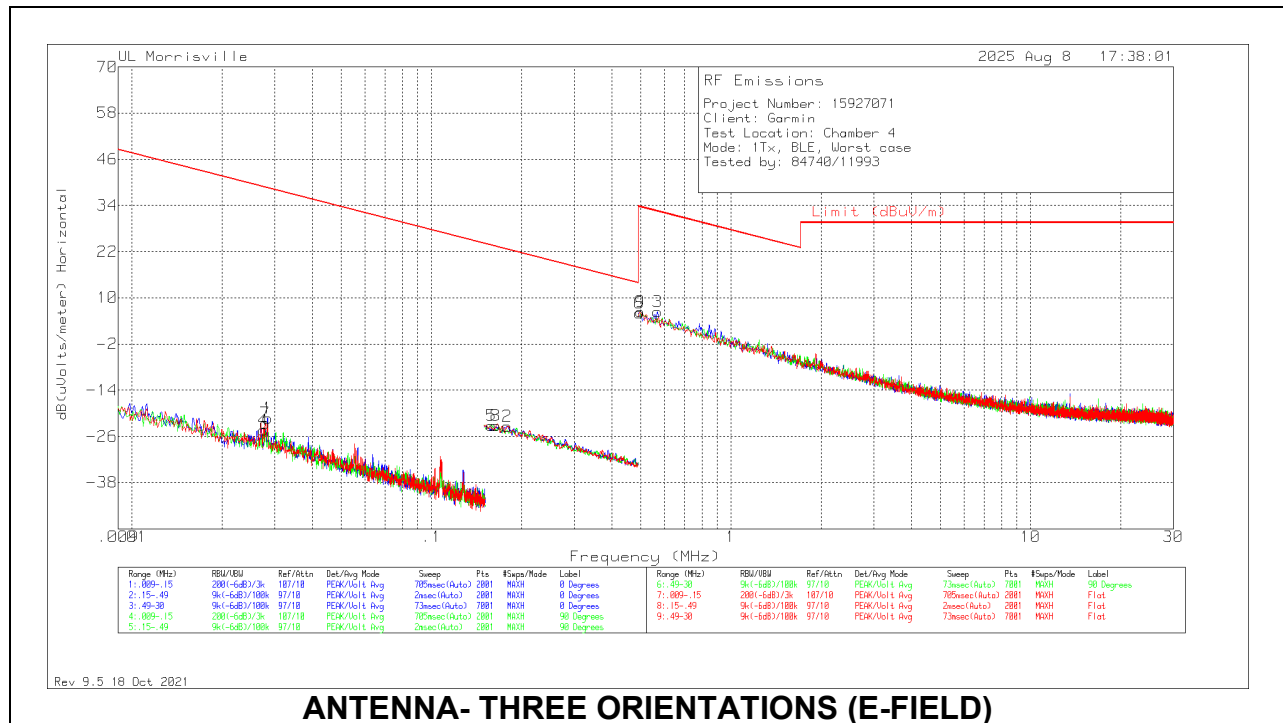
Pk - Peak detector

ADV - Linear Voltage Average

10.2. WORST CASE SPURIOUS BELOW 30MHZ

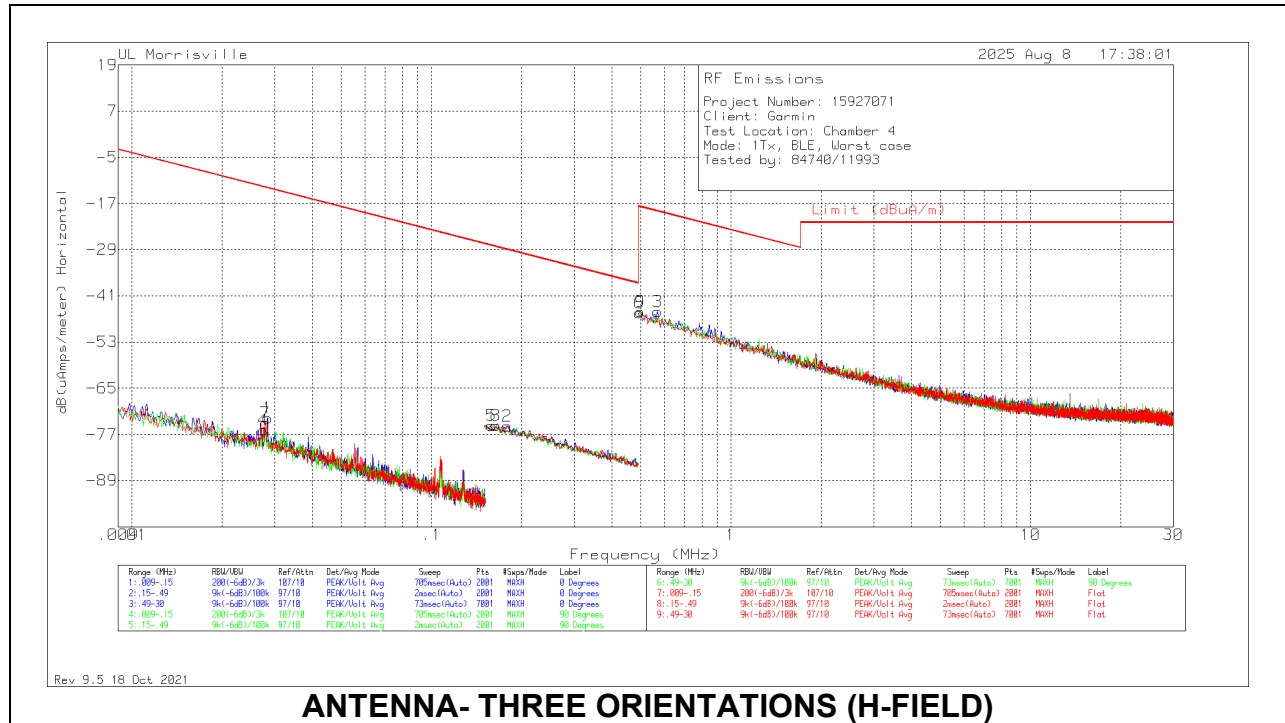
Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

10.2.1. BLE



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	PK Limit (dBuV/m)	QP/AV Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.02753	42.37	Pk	13.3	0	-80	-24.33	38.81	58.81	-63.14	0-360	90 degs
7	.02789	44.14	Pk	13.3	0	-80	-22.56	38.7	58.7	-61.26	0-360	Flat
1	.02838	45.49	Pk	13.3	0	-80	-21.21	38.54	58.54	-59.75	0-360	0 degs
5	.15867	45.83	Pk	11	0	-80	-23.17	23.59	43.59	-46.76	0-360	90 degs
8	.16445	45.75	Pk	11	0	-80	-23.25	23.28	43.28	-46.53	0-360	Flat
2	.17941	45.69	Pk	11	0	-80	-23.31	22.53	42.53	-45.84	0-360	0 degs
6	.49422	34.96	Pk	11	.1	-40	6.06	33.73	-	-27.67	0-360	90 degs
9	.49843	35.32	Pk	11	.1	-40	6.42	33.65	-	-27.23	0-360	Flat
3	.5701	35.27	Pk	11	.1	-40	6.37	32.48	-	-26.11	0-360	0 degs

Pk - Peak detector



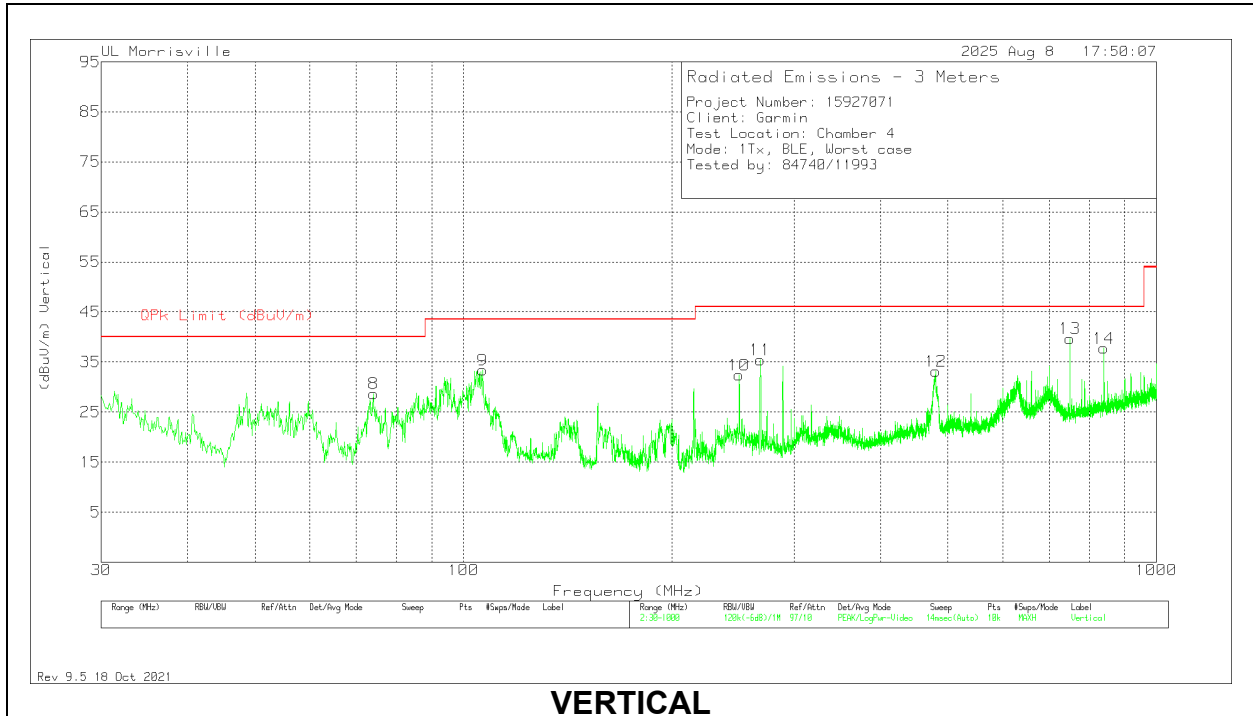
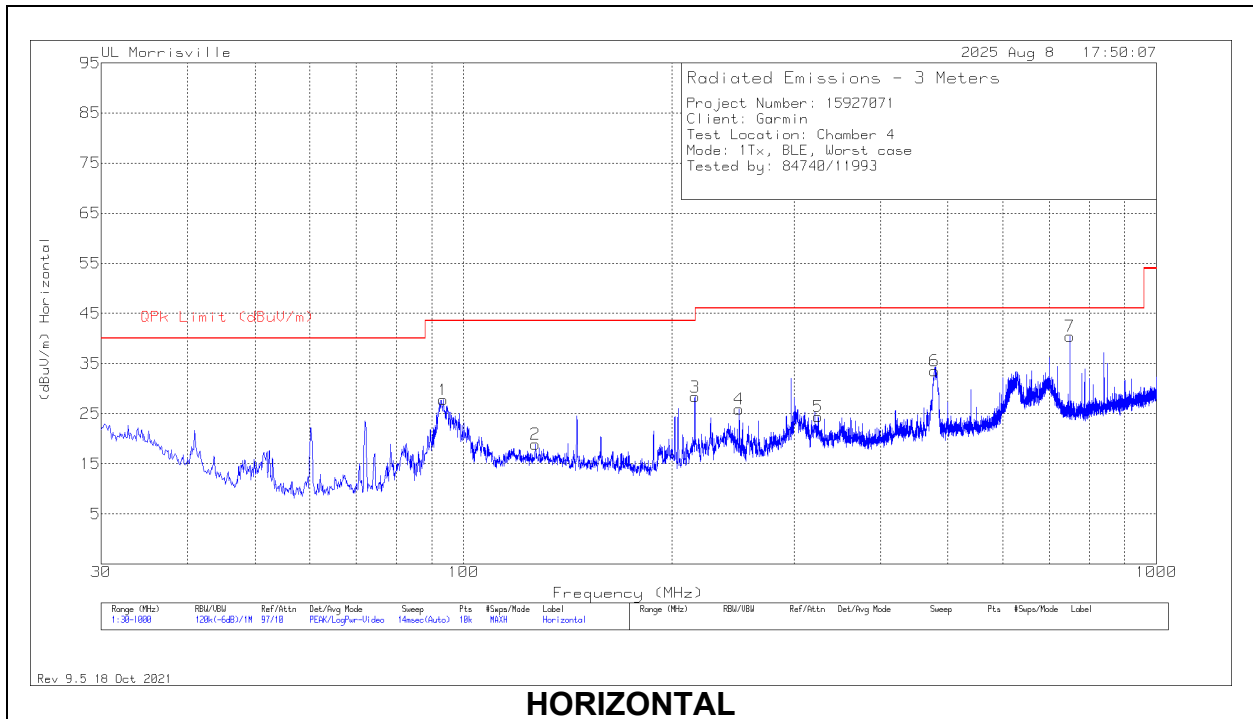
ANTENNA- THREE ORIENTATIONS (H-FIELD)

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	PK Limit (dBuA/m)	QP/AV Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.02753	42.37	Pk	-38.2	0	-80	-75.83	-12.69	7.31	-63.14	0-360	90 degs
7	.02789	44.14	Pk	-38.2	0	-80	-74.06	-12.8	7.2	-61.26	0-360	Flat
1	.02838	45.49	Pk	-38.2	0	-80	-72.71	-12.96	7.04	-59.75	0-360	0 degs
5	.15867	45.83	Pk	-40.5	0	-80	-74.67	-27.91	-7.91	-46.76	0-360	90 degs
8	.16445	45.75	Pk	-40.5	0	-80	-74.75	-28.22	-8.22	-46.53	0-360	Flat
2	.17941	45.69	Pk	-40.5	0	-80	-74.81	-28.97	-8.97	-45.84	0-360	0 degs
6	.49422	34.96	Pk	-40.5	.1	-40	-45.44	-17.77	-	-27.67	0-360	90 degs
9	.49843	35.32	Pk	-40.5	.1	-40	-45.08	-17.85	-	-27.23	0-360	Flat
3	.5701	35.27	Pk	-40.5	.1	-40	-45.13	-19.02	-	-26.11	0-360	0 degs

Pk - Peak detector

10.3. WORST CASE SPURIOUS BELOW 1 GHZ

10.3.1. BLE



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* ** 127	29.23	Pk	20.1	-30.4	18.93	43.52	-24.59	0-360	300	H
4	* ** 249.996	37.88	Pk	17.5	-29.5	25.88	46.02	-20.14	0-360	100	H
5	* ** 325.074	33.66	Pk	20.1	-29.4	24.36	46.02	-21.66	0-360	100	H
8	* ** 74.135	45.52	Pk	14.2	-31.1	28.62	40	-11.38	0-360	100	V
10	* ** 249.996	44.36	Pk	17.5	-29.5	32.36	46.02	-13.66	0-360	100	V
11	* ** 268.135	46.03	Pk	19.2	-29.8	35.43	46.02	-10.59	0-360	100	V
14	** 840.047	36.94	Pk	27.7	-26.9	37.74	46.02	-8.28	0-360	100	V
1	93.535	43.73	Pk	14.7	-30.7	27.73	-	-	0-360	100	H
9	106.63	45.56	Pk	18.2	-30.4	33.36	-	-	0-360	100	V
3	215.755	41.15	Pk	16.6	-29.4	28.35	-	-	0-360	100	H
6	478.043	38.67	Pk	23.8	-28.9	33.57	-	-	0-360	100	H
12	479.983	37.92	Pk	23.8	-28.6	33.12	-	-	0-360	100	V
7	750.031	41.32	Pk	26.6	-27.5	40.42	-	-	0-360	100	H
13	750.031	40.55	Pk	26.6	-27.5	39.65	-	-	0-360	100	V

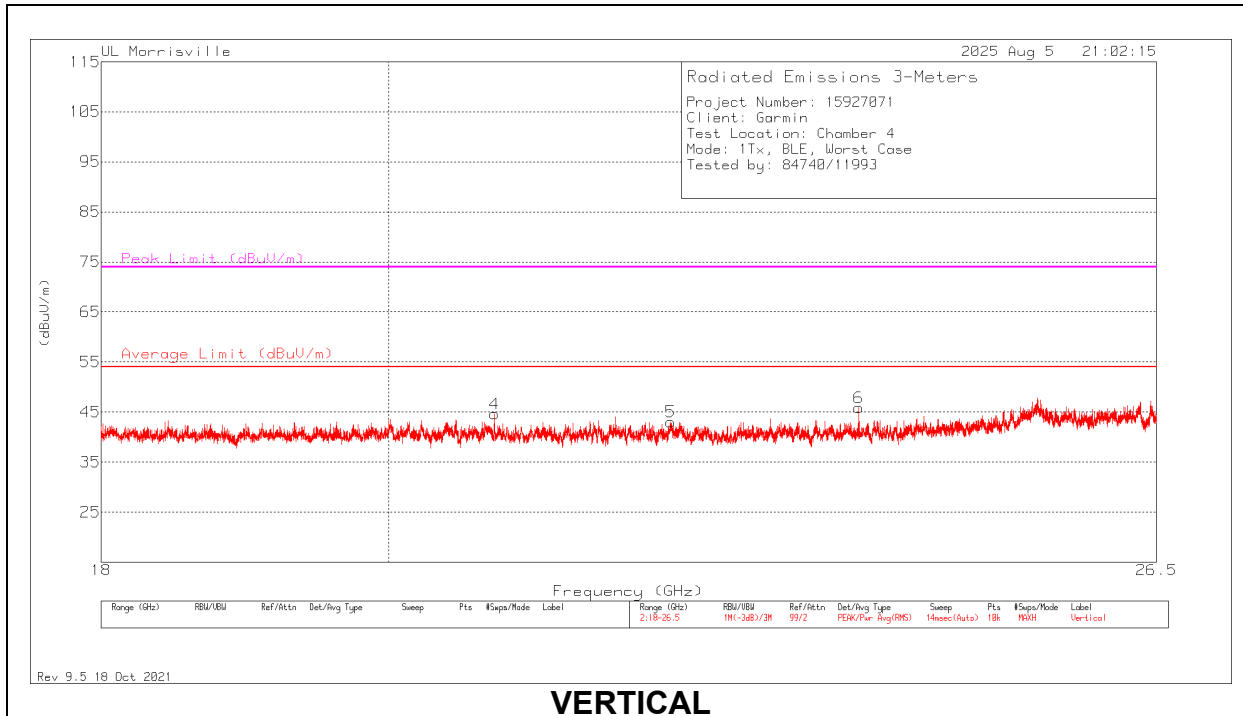
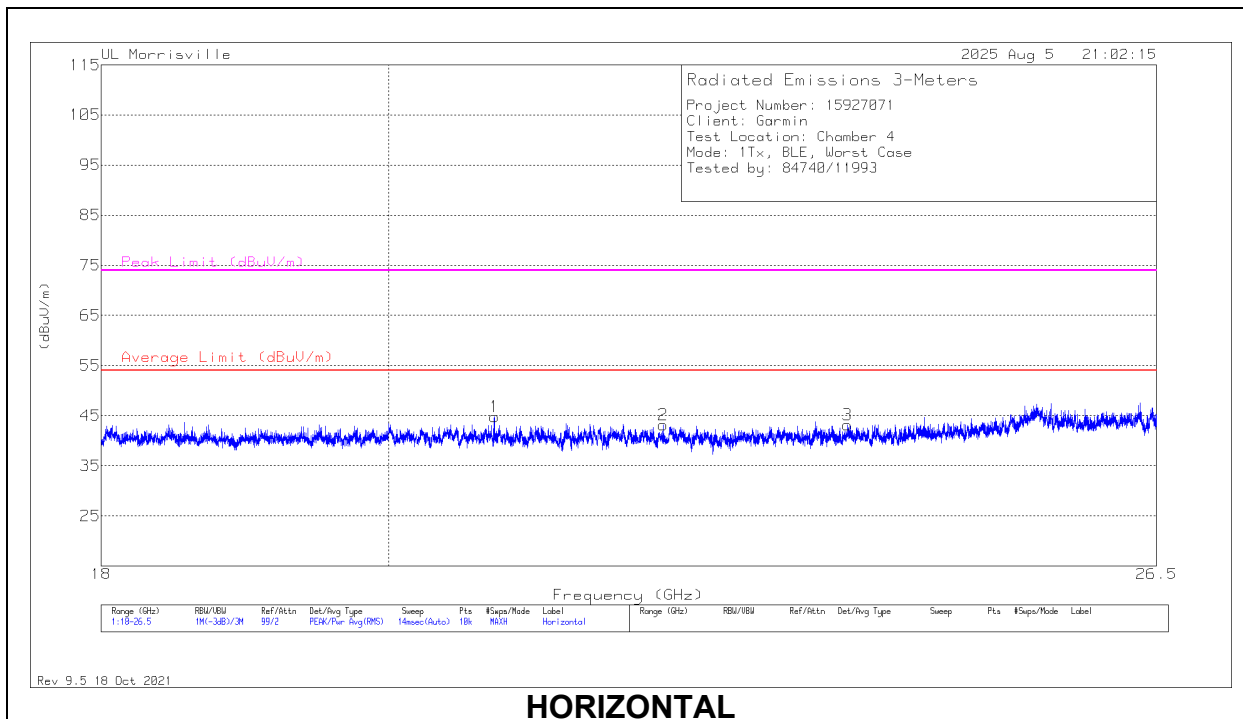
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.4. WORST CASE SPURIOUS 18-26 GHZ

10.4.1. BLE



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	91186 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.79168	51.44	Pk	32.7	-39.4	0	44.74	54	-9.26	74	-29.26	0-360	100	H
2	* ** 22.11611	49.98	Pk	33.2	-40	0	43.18	54	-10.82	74	-30.82	0-360	200	H
3	* ** 23.66327	47.31	Pk	33.8	-38	0	43.11	54	-10.89	74	-30.89	0-360	100	H
4	* ** 20.79168	51.3	Pk	32.7	-39.4	0	44.6	54	-9.4	74	-29.4	0-360	150	V
5	* ** 22.17647	47.54	Pk	33.4	-37.9	0	43.04	54	-10.96	74	-30.96	0-360	150	V
6	* ** 23.76188	49.95	Pk	34	-38.1	0	45.85	54	-8.15	74	-28.15	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

11. SETUP PHOTOS

Please refer to R15927071-EP1 for setup photos

END OF TEST REPORT