

FCC/ISED Test Report

Prepared for: **Garmin International, Inc.**

Address: **1200 E. 151st Street**
 Olathe, Kansas, 66062, USA

Product: **AA4828**

Test Report No: **R20250124-00-E6** **Rev: B**

Approved by:



Fox Lane
EMC Test Engineer

DATE: **July 22, 2025**

Total Pages: **85**

The Nebraska Center for Excellence in Electronics (NCEE) authorizes the above-named company to reproduce this report provided it is reproduced in its entirety for use by the company's employees only. Any use that a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. NCEE accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This report applies only to the items tested.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

REVISION PAGE

Rev. No.	Date	Description
0	11 July 2025	Issued by FLane Prepared by ESchmidt
A	21 July 2025	Added FVIN in Section 2.1, Added plots for 1-25GHz scans in Section 4.4 – ES
B	22 July 2025	Added 1-3.6GHz plot – FL



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

Contents

Revision Page 2

1.0 Summary of test results 5

2.0 EUT Description 6

2.1 Equipment under test 6

2.2 Description of test modes 6

2.3 Description of support units 6

3.0 Laboratory and General Test Description 7

3.1 Laboratory description 7

3.2 Test personnel 7

3.3 Test equipment 8

3.4 General Test Procedure and Setup for Radio Measuremnts 9

4.0 Results 11

4.1 Output Power 15

4.2 Bandwidth 16

4.3 Duty Cycle 17

4.4 Radiated emissions 21

4.5 Conducted Spurious Emissions 31

4.6 Band edges 37

4.7 Power Spectral Density 38

4.8 Conducted AC Mains Emissions 39

Appendix A: Sample Calculation 44

Appendix B – Measurement Uncertainty 45

Appendix C – Graphs and Tables 46

REPORT END 85



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

1.0 SUMMARY OF TEST RESULTS

The worst-case measurements were reported in this report. Summary of test results presented in this report correspond to the following standards/section(s):

- (1) US Code of Federal Regulations, Title 47, Part 15
- (2) ISED RSS-Gen, Issue 5
- (3) ISED RSS-247, Issue 3

APPLIED STANDARDS AND REGULATIONS		
Standard Section	Test Type	Result
FCC Part 15.35 RSS Gen, Issue 5, Section 6.10	Duty Cycle	Pass
FCC Part 15.247(b)(3) RSS-247 Issue 3 Section 5.4(d)	Peak output power	Pass
FCC Part 15.247(a)(2) RSS-247 Issue 3 Section 5.2 (a)	Bandwidth	Pass
FCC Part 15.209 RSS-Gen Issue 5, Section 7.3	Receiver Radiated Emissions	Pass
FCC Part 15.209 (restricted bands), 15.247 (unrestricted) RSS-247 Issue 3 Section 5.5, RSS-Gen Issue 5, Section 8.9	Transmitter Radiated Emissions	Pass
FCC Part 15.247(e) RSS-247 Issue 3 Section 5.2 (b)	Power Spectral Density	Pass
FCC Part 15.209, 15.247(d) RSS-247 Issue 3 Section 5.5	Band Edge Measurement	Pass
FCC Part 15.207 RSS-Gen Issue 5, Section 8.8	Conducted Emissions	Pass



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

2.0 EUT DESCRIPTION

2.1 EQUIPMENT UNDER TEST

Summary and Operating Condition:

EUT	AA4828
FCC ID	IPH-A4828
IC ID	1792A-A4828
FVIN	1.01
EUT Received	6 June 2025
EUT Tested	6 June 2025- 2 July 2025
Serial No.	3609442863 (Radiated Sample) 3609442792 (Conducted Sample)
Operating Band	2400 – 2483.5 MHz
Device Type	<input type="checkbox"/> GMSK <input type="checkbox"/> GFSK <input type="checkbox"/> BT BR <input type="checkbox"/> BT EDR 2MB <input type="checkbox"/> BT EDR 3MB <input checked="" type="checkbox"/> 802.11x
Power Supply / Voltage	Internal Battery / 5VDC Charger: Garmin (Phi Hong) Model: AQ27A-59CFA GPN: 362-00118-00 (Representative Power Supply)

NOTE: For more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 DESCRIPTION OF TEST MODES

The operating range of the EUT is dependent on the device type found in section 2.1:

Data Rates:

Modulation	Low/High Data rate
802.11b	1MB/11MB
802.11g	6MB/54MB
802.11n	6.5MB/72.2MB

For 802.11x Transmissions:

Channel	Frequency
Low	2412 MHz
Mid	2437 MHz
High	2462 MHz

These are the only representative channels tested in the frequency range according to FCC Part 15.31 and RSS-Gen Table A1. See the operational description for a list of all channel frequencies and designations.

2.3 DESCRIPTION OF SUPPORT UNITS

None

3.0 LABORATORY AND GENERAL TEST DESCRIPTION

3.1 LABORATORY DESCRIPTION

All testing was performed at the following Facility:

The Nebraska Center for Excellence in Electronics (NCEE Labs)
 4740 Discovery Drive
 Lincoln, NE 68521

A2LA Certificate Number:	1953.01
FCC Accredited Test Site Designation No:	US1060
Industry Canada Test Site Registration No:	4294A
NCC CAB Identification No:	US0177

Environmental conditions varied slightly throughout the tests:

Relative humidity of $35 \pm 4\%$
 Temperature of $22 \pm 3^\circ$ Celsius



3.2 TEST PERSONNEL

No.	PERSONNEL	TITLE	ROLE
1	Fox Lane	Test Engineer	Testing, Review, and Report
2	Blake Winter	Test Engineer	Testing
3	Ethan Schmidt	Test Engineer	Testing and Report

Notes:

All personnel are permanent staff members of NCEE Labs. No testing or review was sub-contracted or performed by sub-contracted personnel.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

3.3 TEST EQUIPMENT

DESCRIPTION AND MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION DATE	CALIBRATION DUE DATE
Keysight MXE Signal Analyzer (44GHz)	N9038A	MY59050109	July 17, 2024	July 18, 2026
Keysight MXE Signal Analyzer (26.5GHz)	N9038A	MY56400083	July 17, 2024	July 18, 2026
Keysight EXA Signal Analyzer	N9010A	MY56070862	July 18, 2023	July 17, 2025
SunAR RF Motion	JB1	A082918-1	July 17, 2024	July 17, 2025
EMCO Horn Antenna	3117	29616	June 12, 2024	June 12, 2026
EMCO Horn Antenna	3116	2576	July 31, 2023	July 30, 2025
Agilent Preamp*	87405A	3207A01475	May 2, 2024	May 2, 2026
ETS Red Preamplifier (Orange)*	3115-PA	00218576	January 22, 2024	January 22, 2026
Trilithic High Pass Filter*	6HC330	23042	June 5, 2023	June 5, 2026
Tektronix Average Power Meter	PSM3110	118674	July 17, 2024	July 18, 2026
ETS – Lindgren- VSWR on 10m Chamber	10m Semi-anechoic chamber-VSWR	4740 Discovery Drive	May 15, 2024	May 15, 2027
NCEE Labs-NSA on 10m Chamber*	10m Semi-anechoic chamber-NSA	NCEE-001	May 22, 2024	May 22, 2026
RF Cables (3m Ant. to Control room Bulkhead)	MFR-57500	1E3874	January 20, 2024	January 20, 2026
RF Cable (antenna to 10m chamber bulkhead)*	FSCM 64639	01E3872	January 21, 2024	January 21, 2026
RF Cable (10m chamber bulkhead to control room bulkhead)*	FSCM 64639	01E3874	January 21, 2024	January 21, 2026
RF Cable (control room bulkhead to test receiver)*	FSCM 64639	01F1206	January 21, 2024	January 21, 2026
N connector bulkhead (10m chamber)*	PE9128	NCEEBH1	January 21, 2024	January 21, 2026
N connector bulkhead (control room)*	PE9128	NCEEBH2	January 21, 2024	January 21, 2026
TDK Emissions Lab Software	V11.25	700307	NA	NA

*Internal Characterization

Notes:

All equipment is owned by NCEE Labs and stored permanently at NCEE Labs facilities.

Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

3.4 GENERAL TEST PROCEDURE AND SETUP FOR RADIO MEASUREMENTS

Measurement type presented in this report (Please see the checked box below):

Conducted

The conducted measurements were performed by connecting the output of the transmitter directly into a spectrum analyzer using an impedance matched cable and connector soldered to the EUT in place of the antenna. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

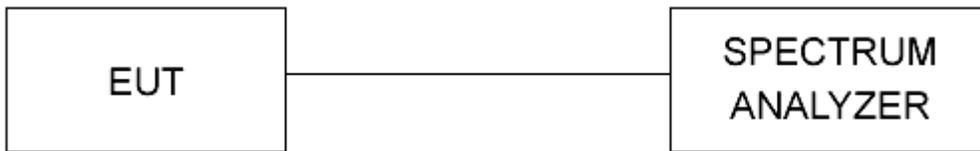


Figure 1 - Bandwidth Measurements Test Setup

Radiated ☒

All the radiated measurements were taken at a distance of 3m from the EUT. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

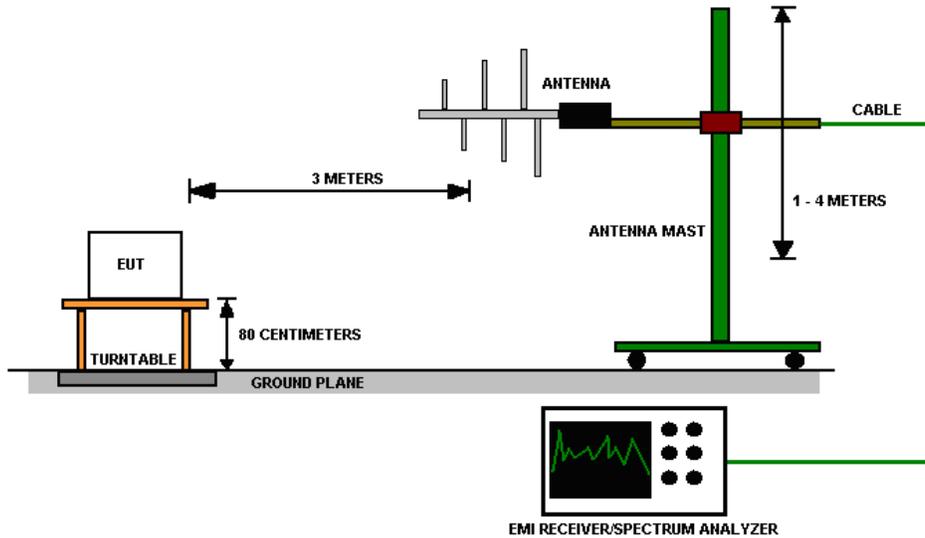


Figure 2 - Radiated Emissions Test Setup

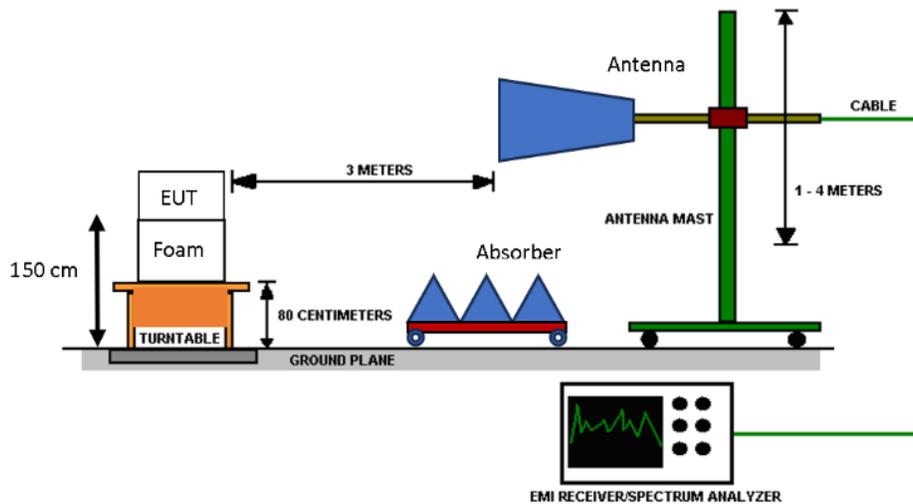


Figure 3 - Radiated Emissions Test Setup, >1GHz



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.0 RESULTS

DTS Radio Measurements Low Data Rate							
CHANNEL	Transmitter	Occupied Bandwidth (kHz)	6 dB Bandwidth (kHz)	PSD (dBm)	RESULT		
Low	802.11b	13893	8132	-8.196	PASS		
Mid	802.11b	14134	8886	-7.38	PASS		
High	802.11b	14209	8933	-7.899	PASS		
Low	802.11g	16469	16510	-11.263	PASS		
Mid	802.11g	16527	16500	-8.988	PASS		
High	802.11g	16478	16510	-13.164	PASS		
Low	802.11n	17506	17670	-13.48	PASS		
Mid	802.11n	17517	17660	-10.506	PASS		
High	802.11n	17511	17670	-14.877	PASS		
Occupied Bandwidth = N/A; 6 dB Bandwidth Limit = 500 kHz				PSD Limit = 8 dBm			
Unrestricted Band-Edge Low Data Rate							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Relative Highest out of band level (dBm)	Relative Fundamental (dBm)	Delta (dB)	Min Delta (dB)	Result
Low	802.11b	2400.00	74.297	113.574	39.28	30.00	PASS
Low	802.11g	2400.00	73.688	111.31	37.62	30.00	PASS
Low	802.11n	2400.00	70.396	109.378	38.98	30.00	PASS
High	802.11b	2483.50	58.684	114.509	55.83	30.00	PASS
High	802.11g	2483.50	65.707	110.172	44.47	30.00	PASS
High	802.11n	2483.50	60.641	107.551	46.91	30.00	PASS
Radiated Peak Restricted Band-Edge Low Data Rate							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Highest out of band level (dB μ V/m @ 3m)	Measurement Type	Limit (dB μ V/m @ 3m)	Margin	Result
Low	802.11b	2390.00	60.978	Peak	73.98	13.00	PASS
Low	802.11g	2390.00	64.734	Peak	73.98	9.25	PASS
Low	802.11n	2390.00	63.966	Peak	73.98	10.01	PASS
High	802.11b	2483.50	61.639	Peak	73.98	12.34	PASS
High	802.11g	2483.50	63.18	Peak	73.98	10.80	PASS
High	802.11n	2483.50	62.339	Peak	73.98	11.64	PASS
*Limit shown is the peak limit taken from FCC Part 15.209							



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

Average Restricted Band-Edge, Low Data Rate

Ch	Mode	Band edge /Measurement Frequency (MHz)	AVG Out of Band Level (dBuV/m @ 3m)	DCCF for Emissions (dB)	Corrected Out of band level (dBuV/m @ 3m)	Detector	Limit (dBuV/m @ 3m)	Margin	Result
Low	802.11b	2390.00	47.984	0.182	48.17	Average	53.98	5.81	PASS
Low	802.11g	2390.00	51.474	0.477	51.95	Average	53.98	2.03	PASS
Low	802.11n	2390.00	50.26	0.550	50.81	Average	53.98	3.17	PASS
High	802.11b	2483.50	47.085	0.182	47.27	Average	53.98	6.71	PASS
High	802.11g	2483.50	50.102	0.477	50.58	Average	53.98	3.40	PASS
High	802.11n	2483.50	49.467	0.550	50.02	Average	53.98	3.96	PASS

*Limit shown is the average limit taken from FCC Part 15.209 **Detector used was Avg, DCCF was added to Avg level to convert to true average

DTS Power Measurements, Low Data Rate (Power Meter)

CHANNEL	Mode	Raw Average Output Power (dBm)	DCCF (For Power)	Corrected Average Power (dBm)	Corrected Average Power (mW)	RESULT
Low	802.11b	16.772	0.091	16.863	48.565	PASS
Mid	802.11b	17.154	0.091	17.245	53.030	PASS
High	802.11b	16.912	0.091	17.003	50.156	PASS
Low	802.11g	15.230	0.239	15.469	35.227	PASS
Mid	802.11g	17.311	0.239	17.550	56.882	PASS
High	802.11g	13.268	0.239	13.507	22.422	PASS
Low	802.11n	14.072	0.275	14.347	27.209	PASS
Mid	802.11n	16.247	0.275	16.522	44.897	PASS
High	802.11n	12.440	0.275	12.715	18.686	PASS

Limit = 30dBm



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

DTS Radio Measurements, High Data Rate							
CHANNEL	Transmitter	Occupied Bandwidth (kHz)	6 dB Bandwidth (kHz)	PSD (dBm)	RESULT		
Low	802.11b	13560	8921	-5.385	PASS		
Mid	802.11b	13592	8997	-5.042	PASS		
High	802.11b	13710	8296	-4.87	PASS		
Low	802.11g	16461	16510	-14.363	PASS		
Mid	802.11g	16442	16510	-14.447	PASS		
High	802.11g	16444	16510	-14.632	PASS		
Low	802.11n	17443	17320	-15.921	PASS		
Mid	802.11n	17456	17340	-15.97	PASS		
High	802.11n	17435	17550	-16.409	PASS		
Occupied Bandwidth = N/A; 6 dB Bandwidth Limit =500 kHz				PSD Limit = 8 dBm			
Unrestricted Band-Edge, High Data Rate							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Relative Highest out of band level (dBm)	Relative Fundamental (dBm)	Delta (dB)	Min Delta (dB)	Result
Low	802.11b	2400.00	75.468	115.99	40.52	30.00	PASS
Low	802.11g	2400.00	67.227	107.692	40.47	30.00	PASS
Low	802.11n	2400.00	66.033	106.142	40.11	30.00	PASS
High	802.11b	2483.50	59.854	116.359	56.51	30.00	PASS
High	802.11g	2483.50	61.385	107.198	45.81	30.00	PASS
High	802.11n	2483.50	59.454	105.784	46.33	30.00	PASS
Radiated Peak Restricted Band-Edge, High Data Rate							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Highest out of band level (dB μ V/m @ 3m)	Measurement Type	Limit (dB μ V/m @ 3m)	Margin	Result
Low	802.11b	2390.00	59.891	Peak	73.98	14.09	PASS
Low	802.11g	2390.00	64.559	Peak	73.98	9.42	PASS
Low	802.11n	2390.00	61.899	Peak	73.98	12.08	PASS
High	802.11b	2483.50	58.000	Peak	73.98	15.98	PASS
High	802.11g	2483.50	61.994	Peak	73.98	11.99	PASS
High	802.11n	2483.50	60.525	Peak	73.98	13.46	PASS

*Limit shown is the peak limit taken from FCC Part 15.209



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

Average Restricted Band-Edge, High Data Rate

Ch	Mode	Band edge /Measurement Frequency (MHz)	Peak Out of Band Level (dBuV/m @ 3m)	DCCF for Emissions (dB)	Corrected Out of band level (dBuV/m @ 3m)	Detector	Limit (dBuV/m @ 3m)	Margin	Result
Low	802.11b	2390.00	48.220	1.595	49.81	Avg	53.98	4.17	PASS
Low	802.11g	2390.00	49.527	2.963	52.49	Avg	53.98	1.49	PASS
Low	802.11n	2390.00	47.610	4.156	51.77	Avg	53.98	2.21	PASS
High	802.11b	2483.50	46.418	1.595	48.01	Avg	53.98	5.97	PASS
High	802.11g	2483.50	47.861	2.963	50.82	Avg	53.98	3.16	PASS
High	802.11n	2483.50	46.823	4.156	50.98	Avg	53.98	3.00	PASS

*Limit shown is the average limit taken from FCC Part 15.209 **Detector used was Peak, DCCF was subtracted from Peak level to convert to average

DTS Power Measurements, High Data Rate (Power Meter)

CHANNEL	Mode	Raw Average Output Power (dBm)	DCCF (For Power)	Corrected Average Power (dBm)	Corrected Average Power (mW)	RESULT
Low	802.11b	16.766	0.797	17.563	57.061	PASS
Mid	802.11b	17.012	0.797	17.809	60.387	PASS
High	802.11b	16.946	0.797	17.743	59.476	PASS
Low	802.11g	10.713	1.481	12.194	16.575	PASS
Mid	802.11g	10.860	1.481	12.341	17.145	PASS
High	802.11g	11.107	1.481	12.588	18.149	PASS
Low	802.11n	9.291	2.078	11.369	13.705	PASS
Mid	802.11n	9.386	2.078	11.464	14.008	PASS
High	802.11n	9.010	2.078	11.088	12.846	PASS

Limit = 30dBm



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.1 OUTPUT POWER

Test Method:

Power measurements were performed using ANSI C63.10 Section 11.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum allowed output power is 30 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

The device was directly connected to a calibrated average power meter.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the output power plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.2 BANDWIDTH

Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of bandwidth measurements:

For FCC Part 15.247 Device:

The 99% occupied bandwidth is for informational purposes only. The 6dB bandwidth of the signal must be greater than 500 kHz.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the bandwidth plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.

4.3 DUTY CYCLE

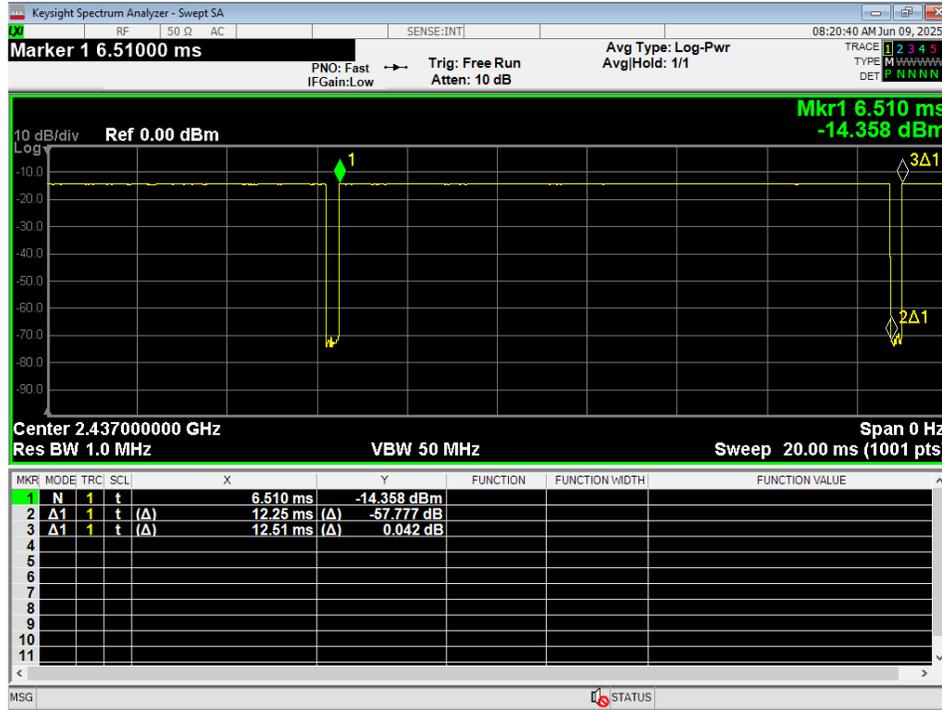


Figure 4 – Duty Cycle, 802.11b 1MB

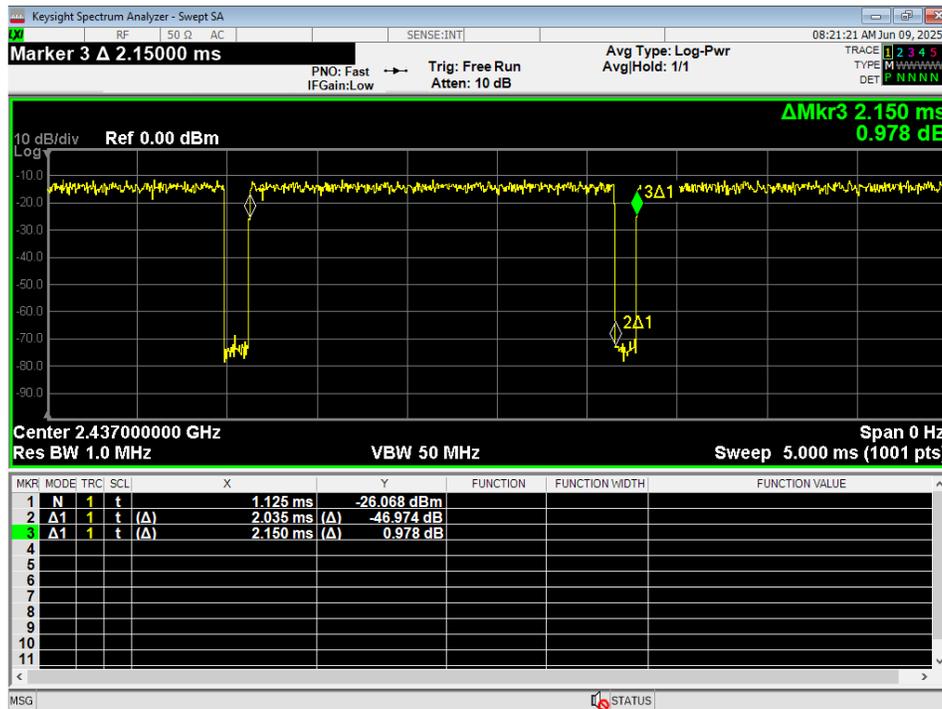


Figure 5 – Duty Cycle, 802.11G 6MB

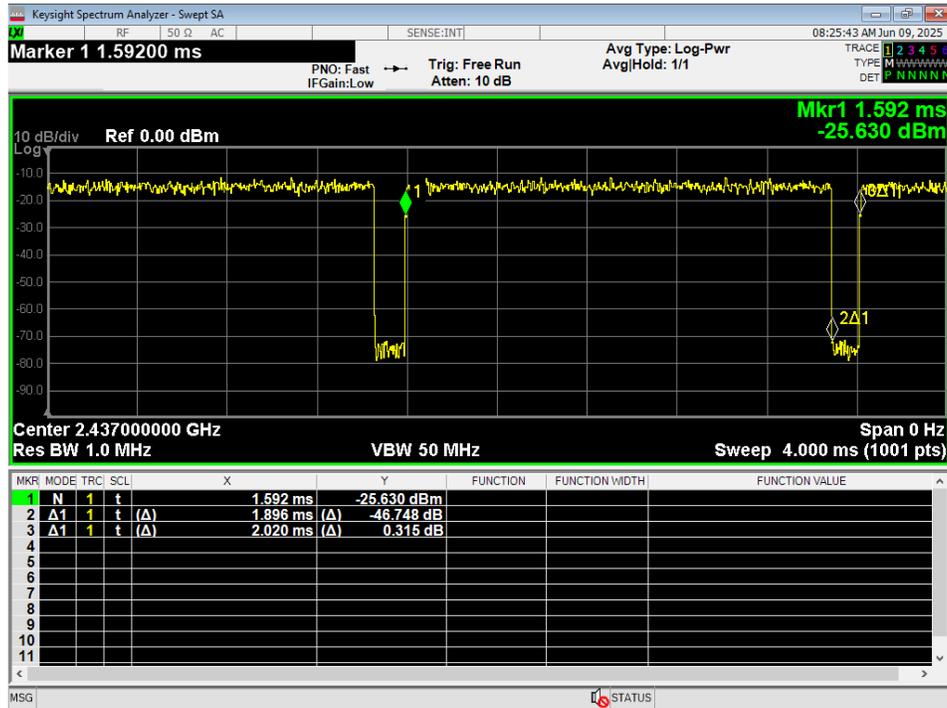


Figure 6 – Duty Cycle, 802.11N 6.5MB

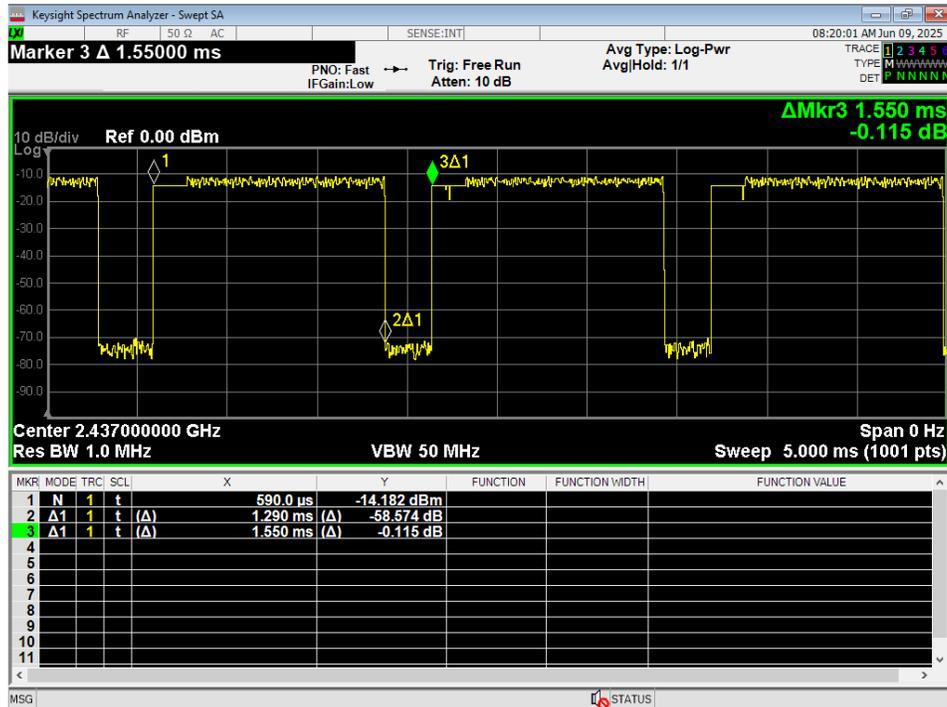


Figure 7 – Duty Cycle, 802.11b 11MB

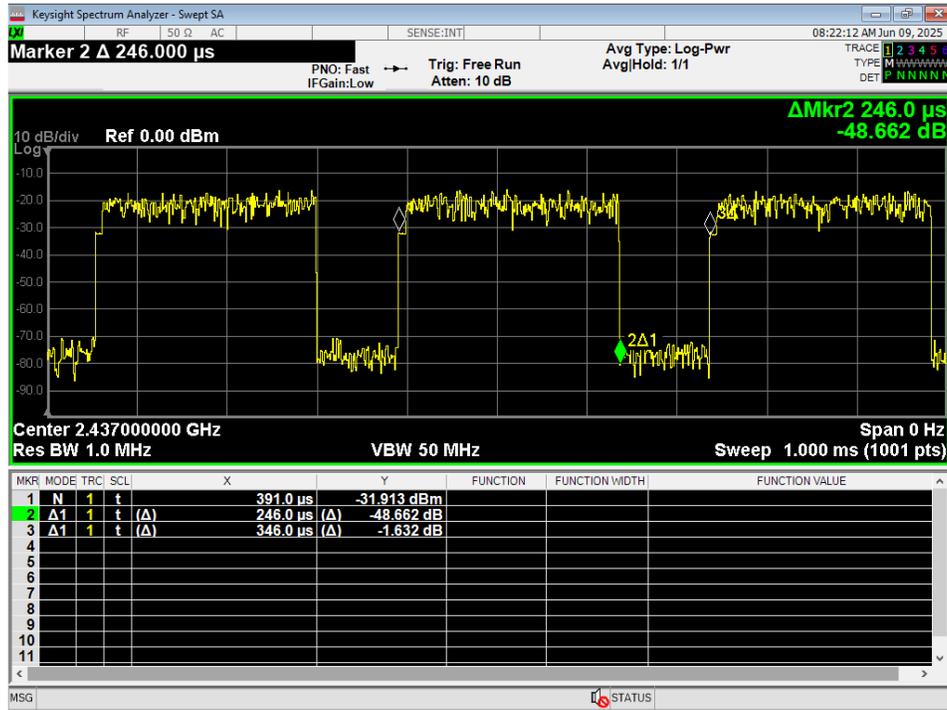


Figure 8 – Duty Cycle, 802.11G 54MB

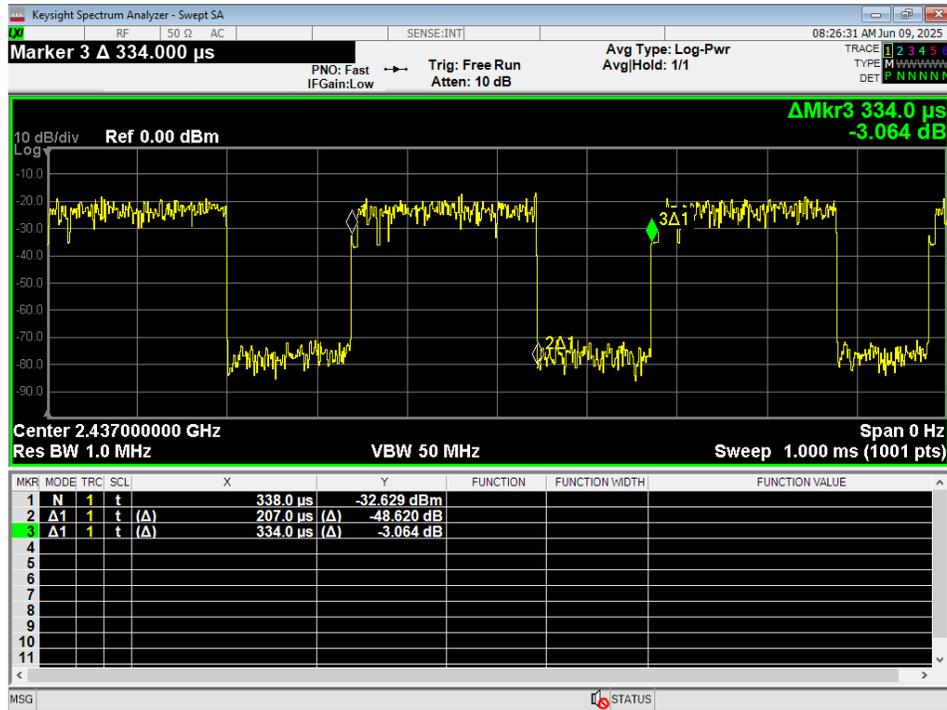


Figure 9 – Duty Cycle, 802.11N 72.2MB

	Report Number:	R20250124-00-E6	Rev	B
	Prepared for:	Garmin International, Inc.		

The following duty cycle and duty cycle correction factors (DCCF) were used where applicable.

Duty Cycle correction factor (for emissions) = $20 \cdot \log(\text{Duty cycle})$

Duty Cycle correction factor (for power) = $10 \cdot \log(\text{Duty Cycle})$

Duty cycle for Wi-Fi B 1MB: 0.979
Duty cycle correction factor (for emissions) for Wi-Fi B 1MB: 0.182dB
Duty Cycle correction factor (for power) for Wi-Fi B 1MB: 0.091dB

Duty cycle for Wi-Fi G 6MB: 0.947
Duty cycle correction factor (for emissions) for Wi-Fi G 6MB: 0.477dB
Duty Cycle correction factor (for power) for Wi-Fi G 6MB: 0.239dB

Duty cycle for Wi-Fi N 6.5MB: 0.939
Duty cycle correction factor (for emissions) for Wi-Fi N 6.5MB: 0.550dB
Duty Cycle correction factor (for power) for Wi-Fi N 6.5MB: 0.275dB

Duty cycle for Wi-Fi B 11MB: 0.832
Duty cycle correction factor (for emissions) for Wi-Fi B 11MB: 1.595 dB
Duty Cycle correction factor (for power) for Wi-Fi B 11MB: 0.797dB

Duty cycle for Wi-Fi G 54MB: 0.711
Duty cycle correction factor (for emissions) for Wi-Fi G 54MB: 2.963dB
Duty Cycle correction factor (for power) for Wi-Fi G 54MB: 1.481dB

Duty cycle for Wi-Fi N 72.2MB: 0.620
Duty cycle correction factor (for emissions) for Wi-Fi N 72.2MB: 4.156dB
Duty Cycle correction factor (for power) for Wi-Fi N 72.2MB: 2.078dB

4.4 RADIATED EMISSIONS

Test Method:

ANSI C63.10-2020, Section 6.5, 6.6

Limits for radiated emissions measurements:

Emissions radiated outside of the specified bands shall be applied to the limits in 15.209 as followed:

FREQUENCIES (MHz)	FIELD STRENGTH (μV/m)	MEASUREMENT DISTANCE (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 * log * Emission level (μV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20dB under any condition of modulation.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

Test procedures:

- a. The EUT was placed on the top of a rotating table above the ground plane in a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The table was 0.8m high for measurements from 30MHz-1Ghz and 1.5m for measurements from 1GHz and higher.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna was a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are used to make the measurement.
- d. For each suspected emission, the EUT was arranged to maximize its emissions and then the antenna height was varied from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum emission reading.
- e. The test-receiver system was set to use a peak detector with a specified resolution bandwidth. For spectrum analyzer measurements, the composite maximum of several analyzer sweeps was used for final measurements.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise, the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The EUT was maximized in all 3 orthogonal positions. The results are presented for the axis that had the highest emissions.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequencies below 1GHz.
- 2. The resolution bandwidth 1 MHz for all measurements and at frequencies above 1GHz, A peak detector was used for all measurements above 1GHz. Measurements were made with an EMI Receiver.

Deviations from test standard:

No deviation.

EUT operating conditions

Details can be found in section 2.1 of this report.

Test results:

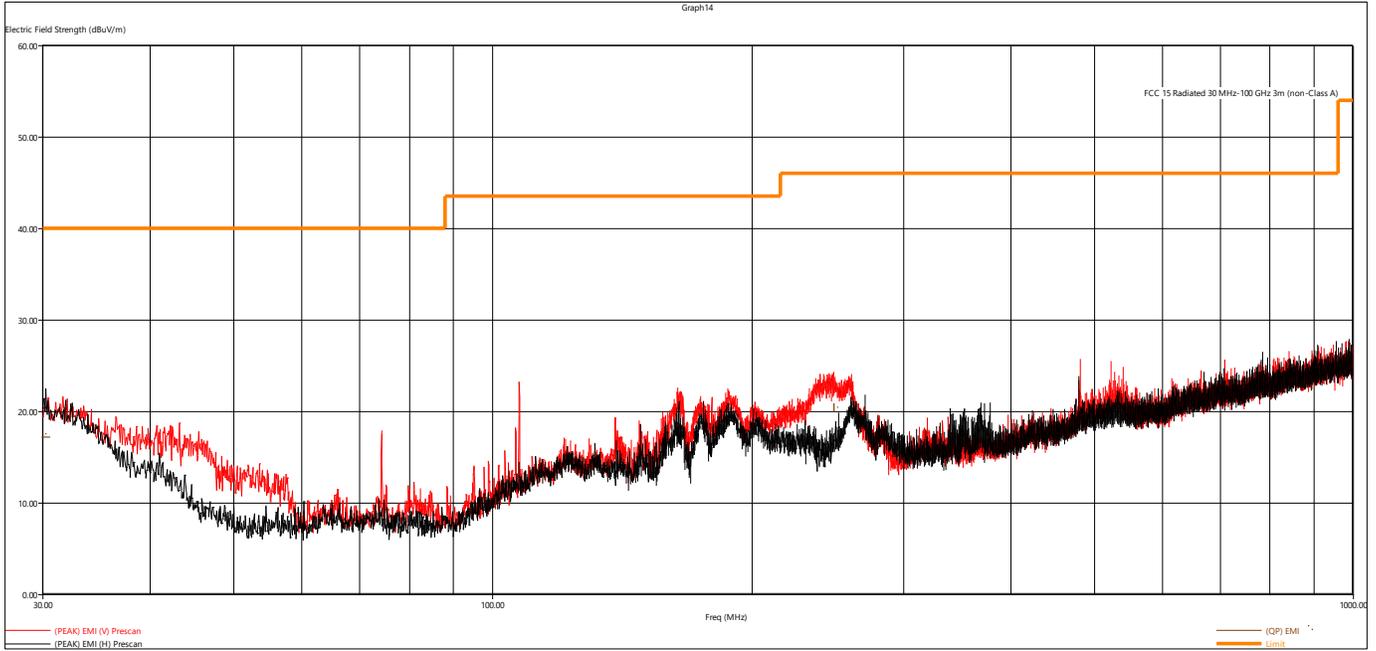


Figure 10 - Radiated Emissions Plot, Receive

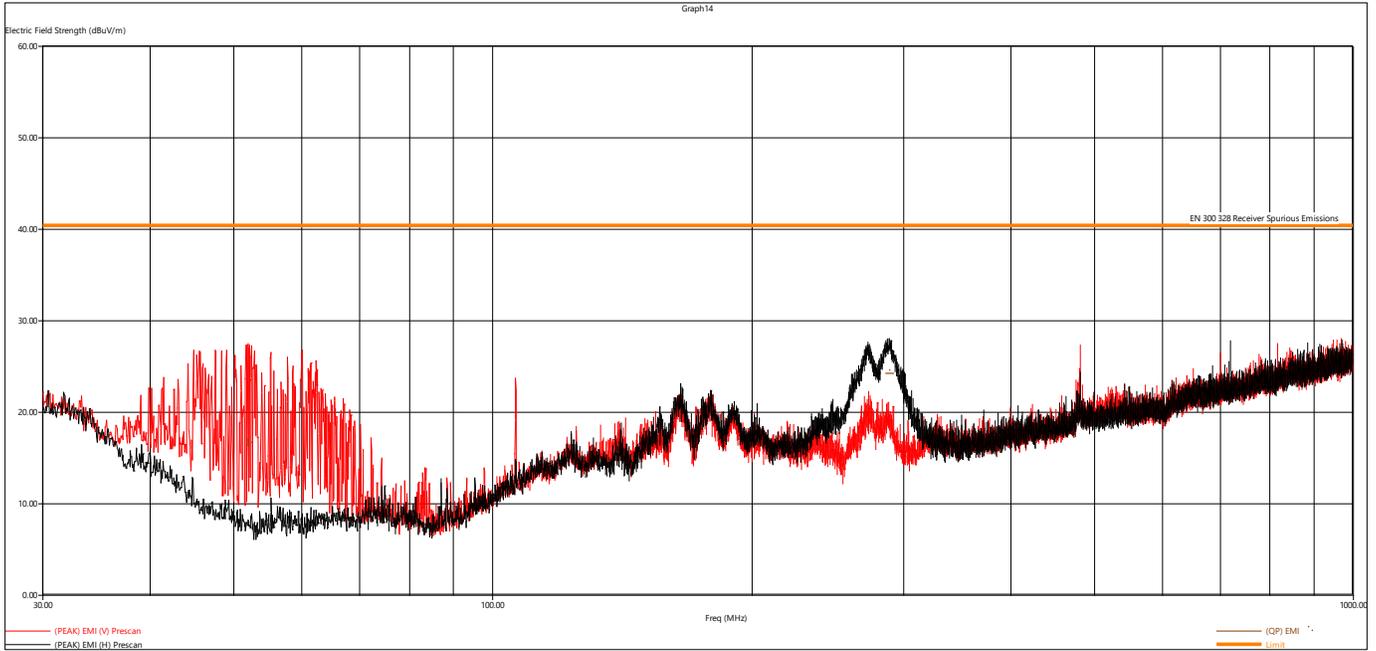


Figure 11 - Radiated Emissions Plot, 802.11b 1MB

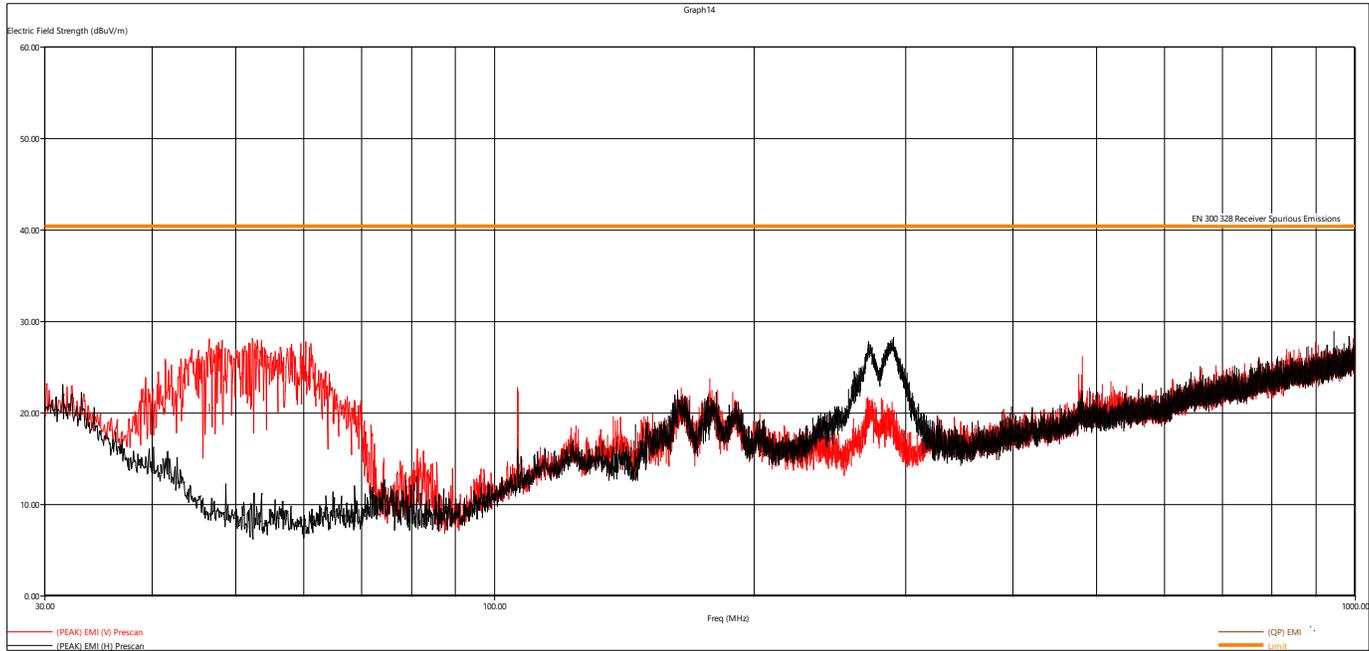


Figure 12 - Radiated Emissions Plot, 802.11b 11MB

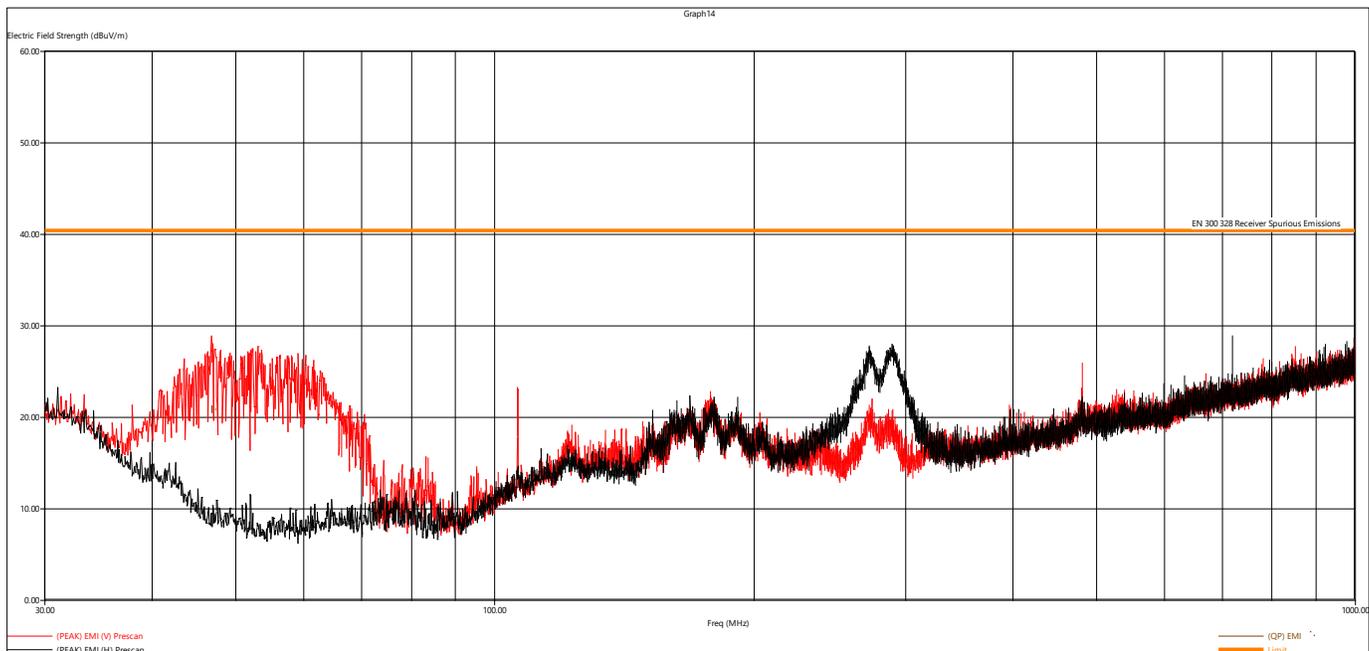


Figure 13 - Radiated Emissions Plot, 802.11g 6MB

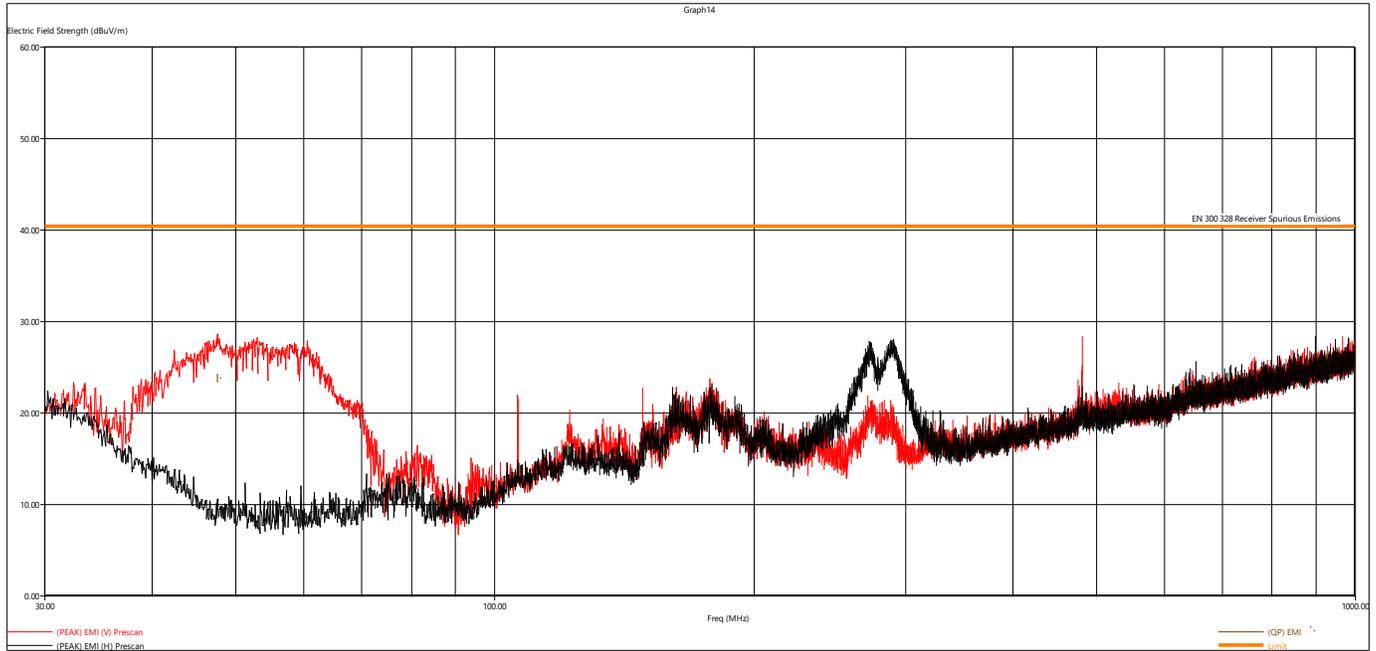


Figure 14 - Radiated Emissions Plot, 802.11g 54MB

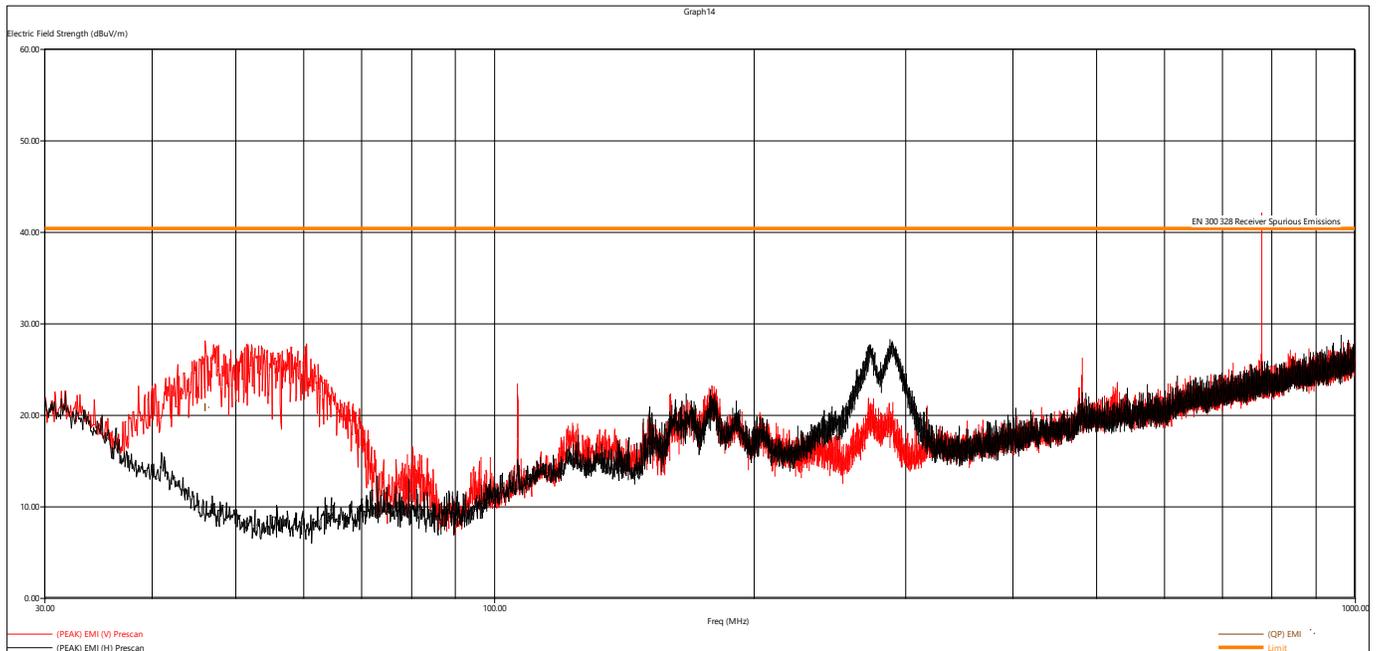


Figure 15 - Radiated Emissions Plot, 802.11n 6.5MB

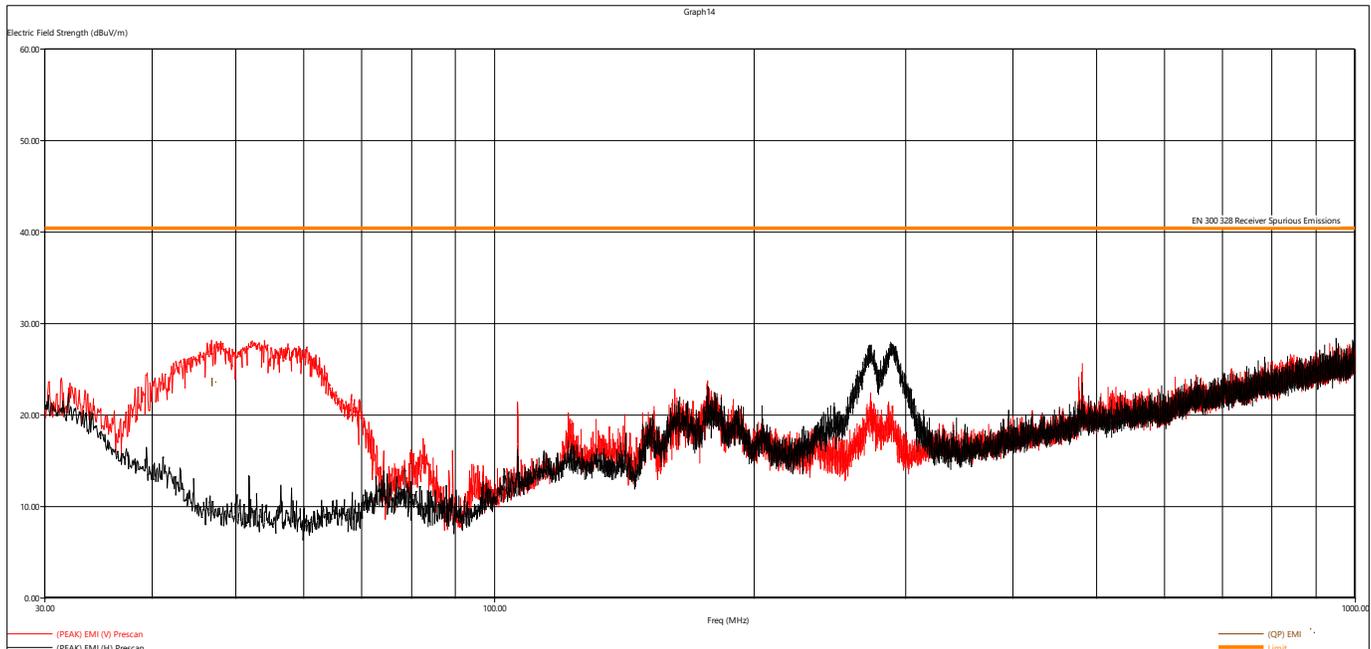


Figure 16 - Radiated Emissions Plot, 802.11n 72.2MB

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level

Quasi-Peak Measurements, 802.11x							
Frequency	Level	Limit	Margin	Height	Angle	Pol	Modulation
MHz	dBμV/m	dBμV/m	dB	cm.	deg.		
30.104160	17.08	40.00	22.92	399.88	13.75	H	RX
248.741280	20.39	46.02	25.63	103.46	164.75	V	RX
289.067760	24.13	40.38	16.25	115.04	21.00	H	B 1MB
52.007520	16.68	40.38	23.70	112.17	40.00	V	B 1MB
46.528560	20.50	40.38	19.88	131.40	160.75	V	B 11MB
46.860960	20.77	40.38	19.61	106.92	241.50	V	G 6MB
47.553360	23.77	40.38	16.61	111.52	140.50	V	G 54MB
45.881040	20.79	40.38	19.59	103.94	67.50	V	N 6.5MB
46.886400	23.51	40.38	16.87	111.40	295.00	V	N 72.2MB



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

Peak Radiated Emissions, 802.11x								
Freq (Max)	(PEAK) EMI	Limit	(PEAK) Margin	Twr Ht	Ttbl Ang	Pol	Channel	Modulation
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg)			
4824.304000	46.88	73.98	27.10	402.56	278.50	V	Low	B 1MB
4874.028000	49.67	73.98	24.31	365.61	281.50	V	Mid	B 1MB
7309.718000	52.65	73.98	21.33	118.14	146.75	V	Mid	B 1MB
4923.246000	44.31	73.98	29.67	289.31	287.00	V	High	B 1MB
7384.870000	51.63	73.98	22.35	116.71	145.50	V	High	B 1MB
4824.684000	45.73	73.98	28.25	354.38	229.25	V	Low	B 11MB
4873.470000	46.54	73.98	27.44	365.07	285.25	V	Mid	B 11MB
7309.874000	51.99	73.98	21.99	123.16	144.50	V	Mid	B 11MB
4875.682000	42.66	73.98	31.32	336.05	244.25	H	Mid	G 6MB
7304.062000	50.08	73.98	23.90	137.73	146.25	V	Mid	G 6MB
7310.148000	51.21	73.98	22.77	116.41	142.25	V	Mid	N 6.5MB

All other emissions including those up to 25GHz were found to be at least 6dB below limit line and were not tabulated.

Average Radiated Emissions, 802.11x								
Freq (Max)	(CISPR AVG) EMI	Limit	(CISPR AVG) Margin	Twr Ht	Ttbl Ang	Pol	Channel	Modulation
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg)			
4824.30	40.51	53.98	13.47	402.56	278.50	V	Low	B 1MB
4874.03	45.70	53.98	8.28	365.61	281.50	V	Mid	B 1MB
7309.72	46.33	53.98	7.65	118.14	146.75	V	Mid	B 1MB
4923.25	33.98	53.98	20.00	289.31	287.00	V	High	B 1MB
7384.87	44.14	53.98	9.84	116.71	145.50	V	High	B 1MB
4824.68	32.37	53.98	21.61	354.38	229.25	V	Low	B 11MB
4873.47	34.23	53.98	19.75	365.07	285.25	V	Mid	B 11MB
7309.87	39.59	53.98	14.39	123.16	144.50	V	Mid	B 11MB
4875.68	28.88	53.98	25.10	336.05	244.25	H	Mid	G 6MB
7304.06	36.65	53.98	17.33	137.73	146.25	V	Mid	G 6MB
7310.15	36.88	53.98	17.10	116.41	142.25	V	Mid	N 6.5MB

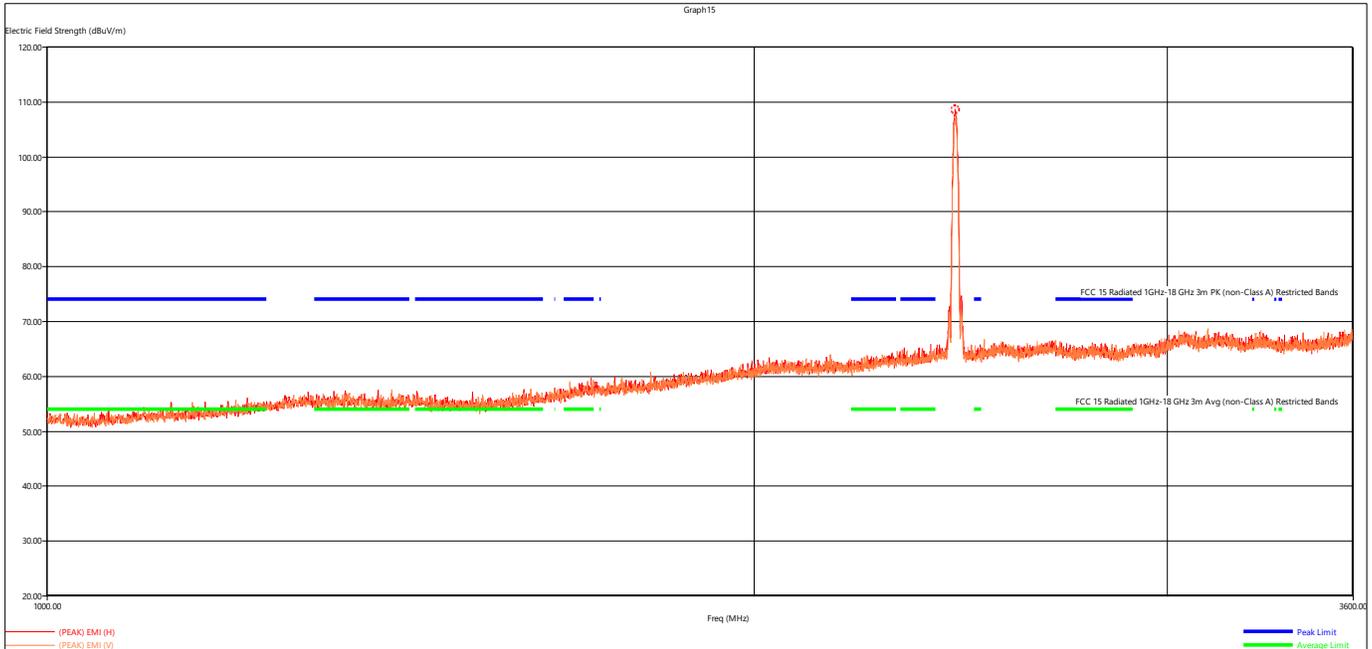


Figure 17 - Radiated Emissions Plot, 1-3.6GHz, 802.11b 1MB Low

Plot shows overages due to added attenuation to prevent receiver saturation; spurious emissions were investigated and found to be at least 6dB below applicable limits

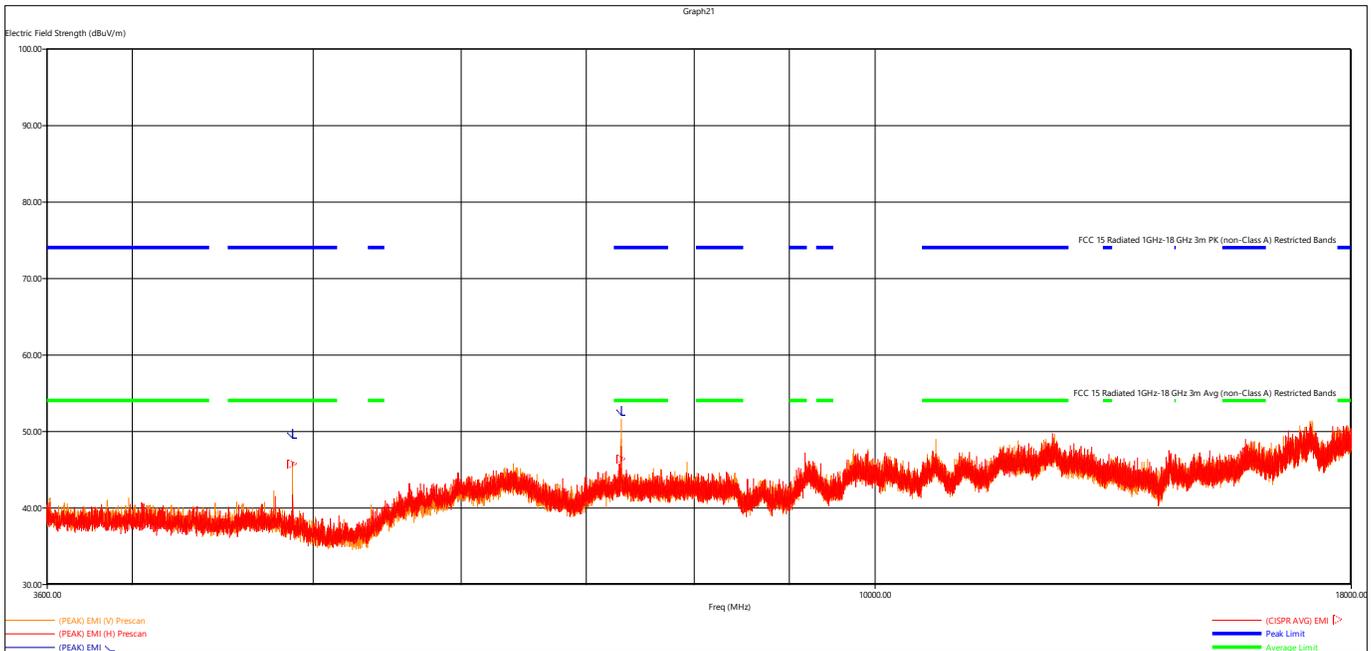


Figure 18 - Radiated Emissions Plot, 3.6-18GHz, 802.11b 1MB Low



Figure 19 - Radiated Emissions Plot, 18-21.5GHz, 802.11b 1MB Mid, 1m test distance
 No emissions were found above lab noise floor, tabular data not provided

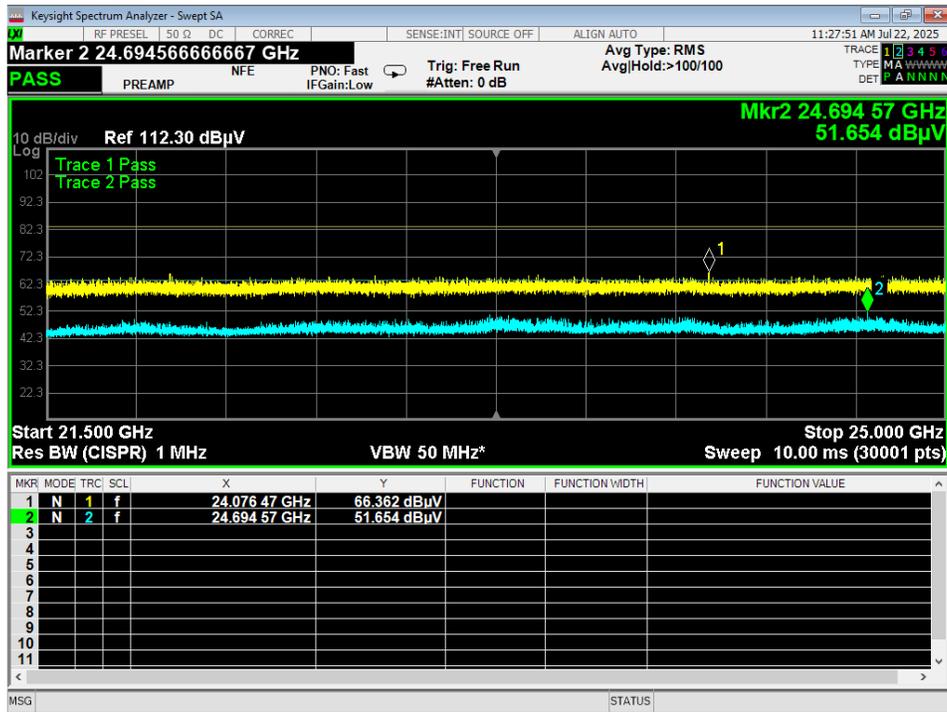


Figure 20 - Radiated Emissions Plot, 21.5-25GHz, 802.11b 1MB Mid, 1m test distance
 No emissions were found above lab noise floor, tabular data not provided



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 3. Margin value = Emission level - Limit value
- 4. The worst-case plots for the 1-25GHz range are shown above.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.5 CONDUCTED SPURIOUS EMISSIONS

Test Method:

ANSI C63.10-2020, Section 6.7

Limits of spurious emissions:

From FCC Part 15.247:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. 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) (see § 15.205(c)).

Test procedures:

The highest emissions level was measured and recorded. All spurious measurements were evaluated to 30dB below the fundamental. More details can be found in section 3.4 of this report. The line shown in the plots is a reference line placed at -20dBm.

Deviations from test standard:

None.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Data rates and channels were investigated and worst case was reported. No emissions exceeded the limits.

There was no distinguishable difference between low and high data rate for purposes of Conducted spurious.

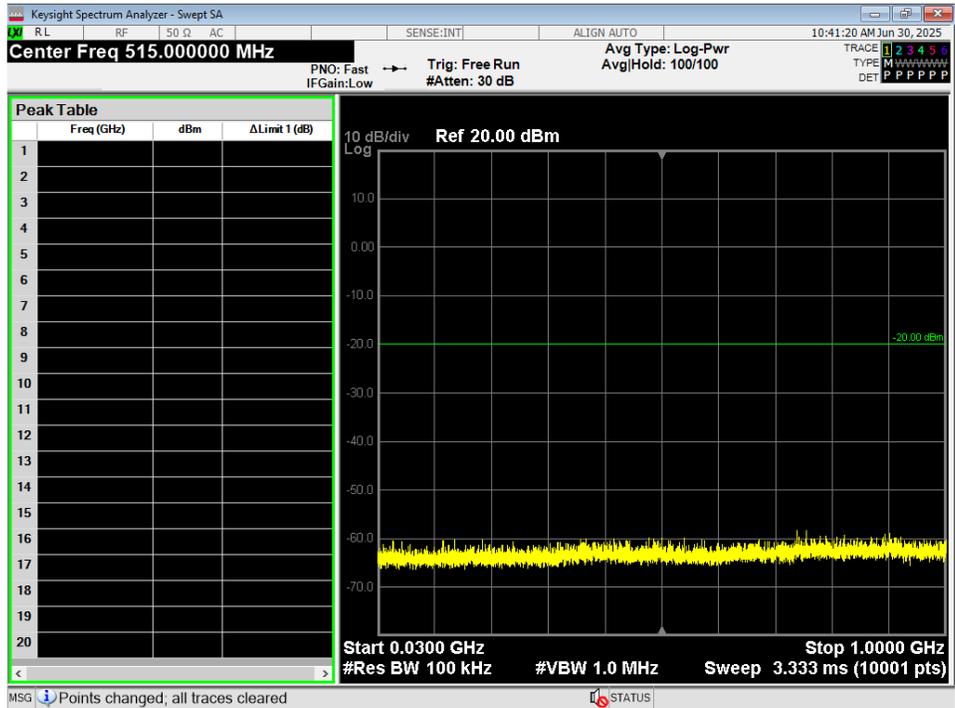


Figure 21 – Conducted Spurious Plot, WIFI 802.11b, 30M – 1G, High

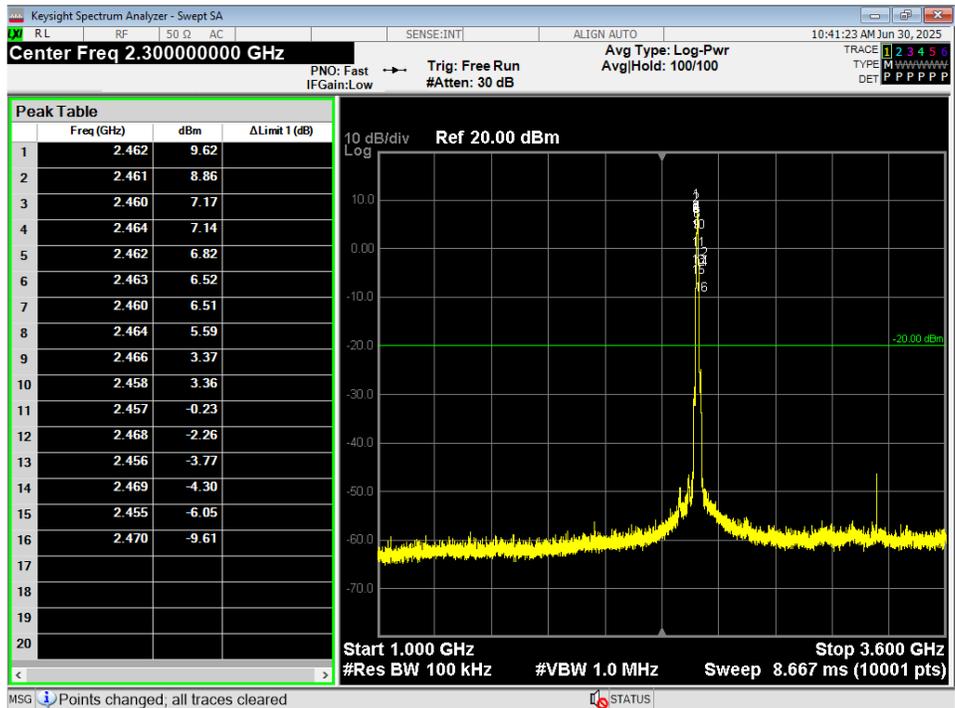


Figure 22 - Conducted Spurious Plot, WIFI 802.11b, 1G – 3.6G, High

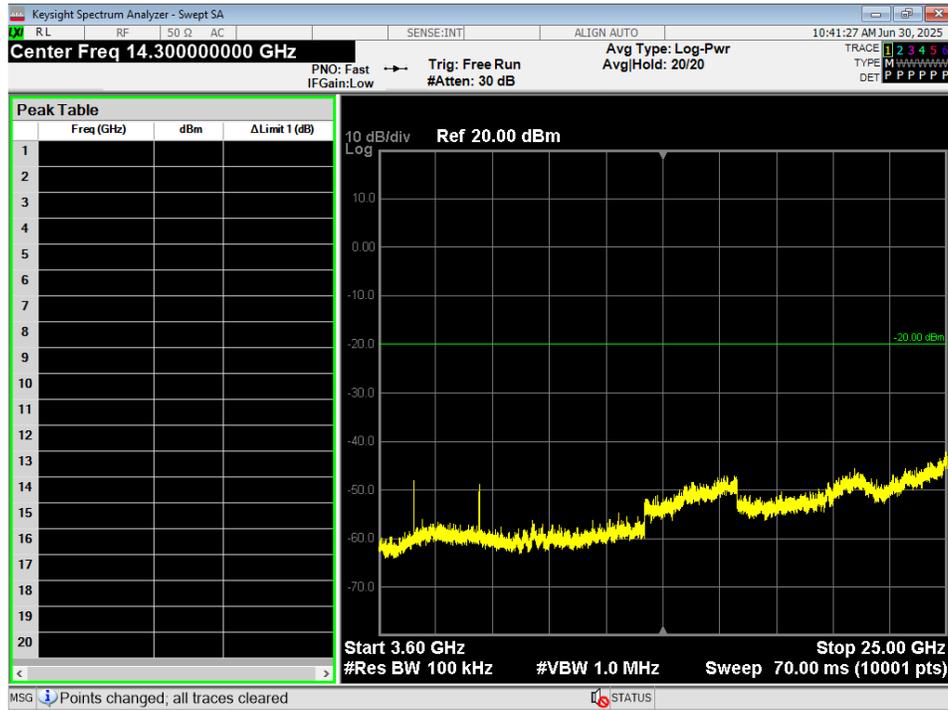


Figure 23 - Conducted Spurious Plot, WIFI 802.11b, 3.6G – 25G, High

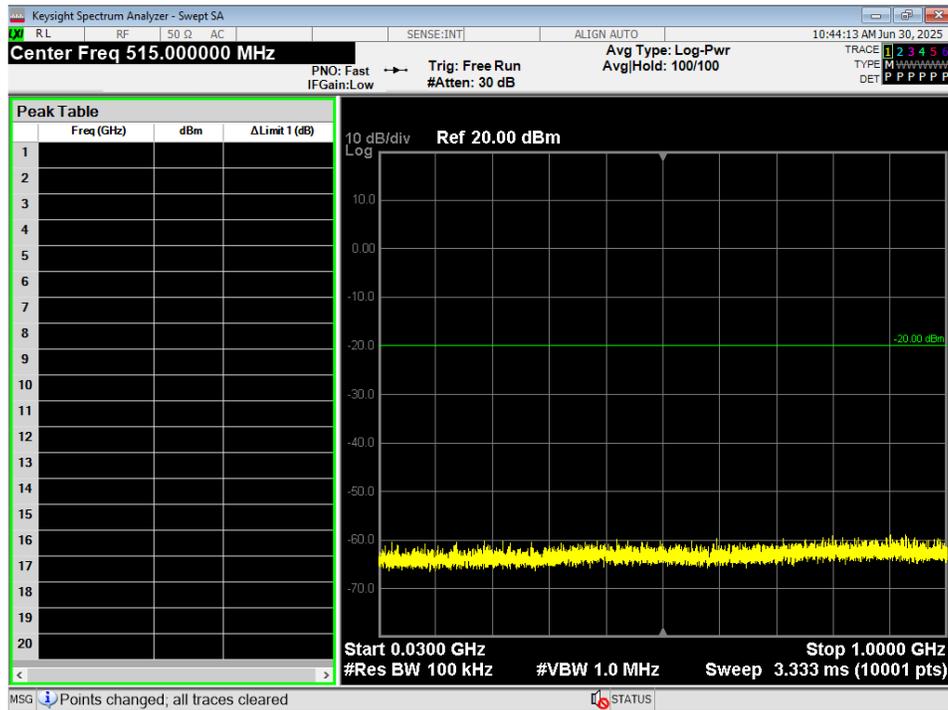


Figure 24 - Conducted Spurious Plot, WIFI 802.11g, 30M – 1G, Mid

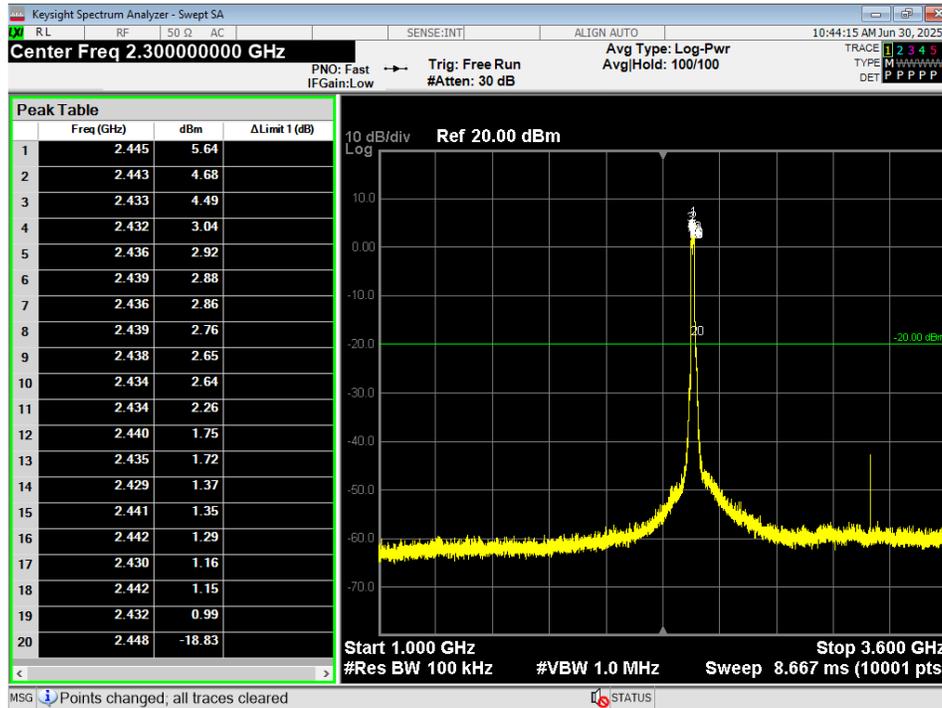


Figure 25 - Conducted Spurious Plot, WIFI 802.11g, 1G – 3.6G, Mid

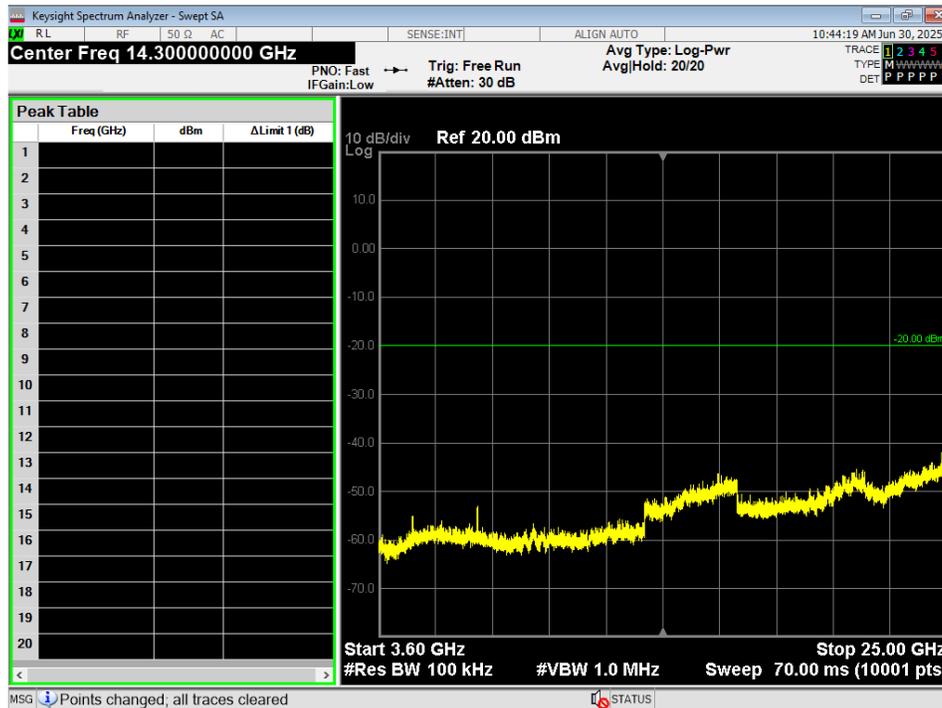


Figure 26 - Conducted Spurious Plot, WIFI 802.11g, 3.6G – 25G, Mid

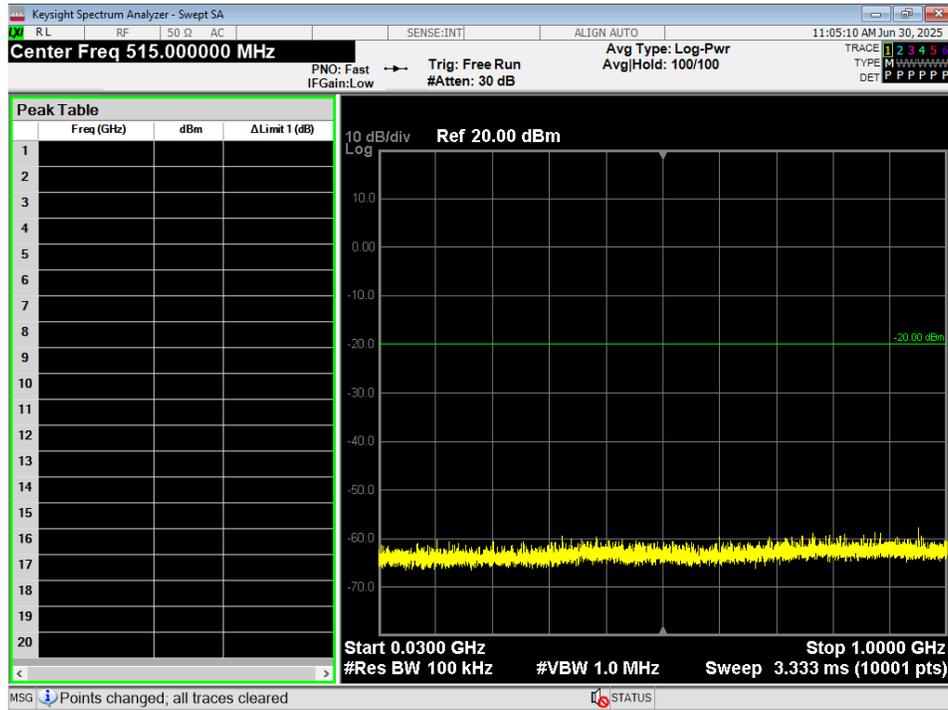


Figure 27 - Conducted Spurious Plot, WIFI 802.11n, 30M – 1G, Mid

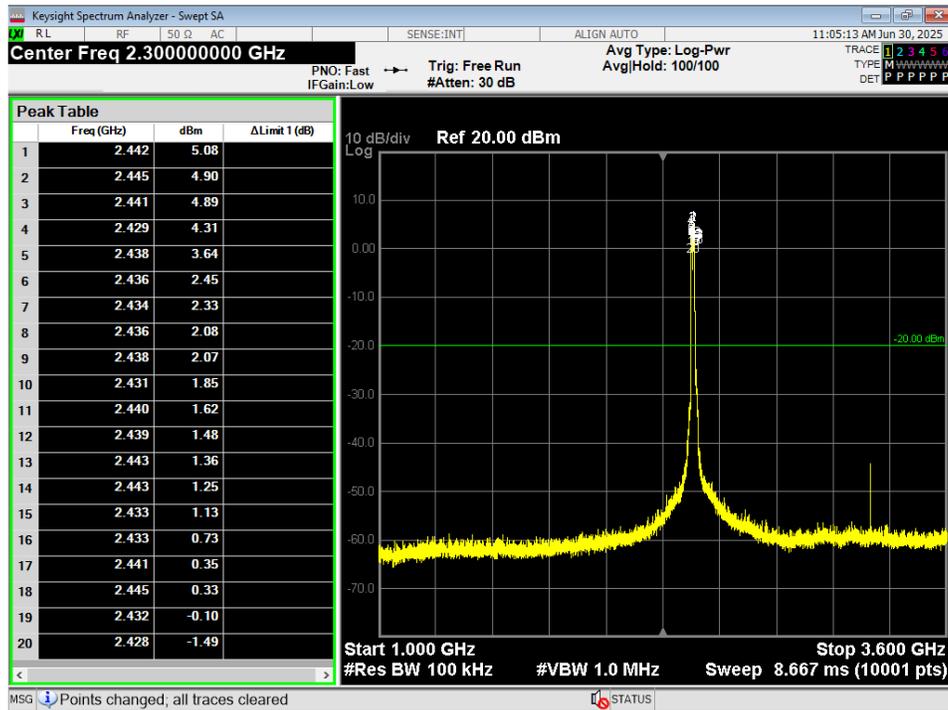


Figure 28 - Conducted Spurious Plot, WIFI 802.11n, 1G – 3.6G, Mid

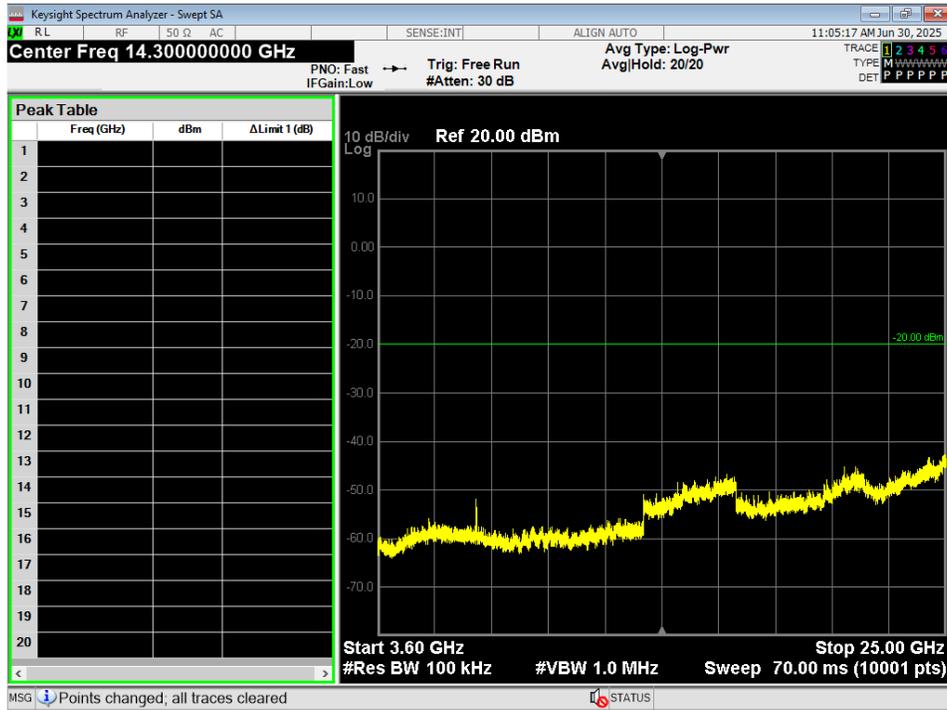


Figure 29 - Conducted Spurious Plot, WIFI 802.11n, 3.6G – 25G, Mid



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.6 BAND EDGES

Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of band-edge measurements:

For FCC Part 15.247 Device:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

Test procedures:

The highest emissions level beyond the band-edge was measured and recorded. All band edge measurements were evaluated to the general limits in Part 15.209. More details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the band edge plots can be found in Appendix C.
2. If the device falls under FCC Part 15.247 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 20 dB between peak and the band edge.
3. The restricted band edge compliance is shown by comparing it to the general limit defined in Part 15.209. The limit shown in the graph accounts for the antenna gain of the device.



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

4.7 POWER SPECTRAL DENSITY

Test Method:

All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum PSD allowed is 8 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the Power Spectral Density (PSD) plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.

4.8 CONDUCTED AC MAINS EMISSIONS

Test Method: ANSI C63.10-2020, Section(s) 6.2

Limits for conducted emissions measurements:

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

Test Procedures:

- a. The EUT was placed 0.8m above a ground reference plane and 0.4 meters from the conducting wall of a shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). The LISN provides 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference as well as the ground.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits are not reported.
- d. Results were compared to the 15.207 limits.

Deviation from the test standard:

No deviation

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test Results:

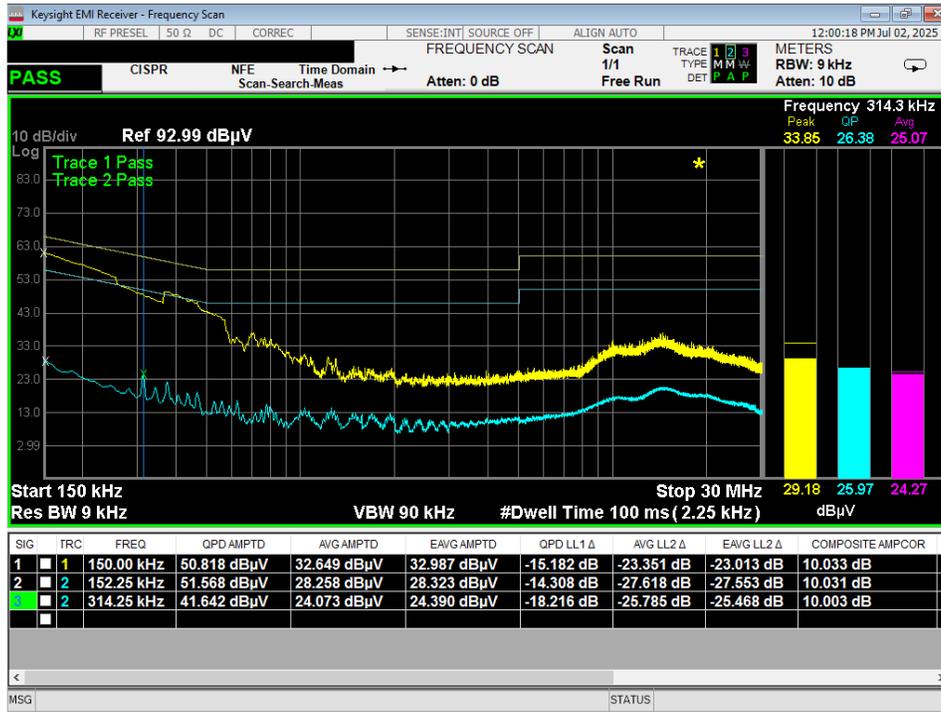


Figure 30 – Conducted Emissions Plot, charging on dock, TX, Line



Figure 31 – Conducted Emissions Plot, charging on dock, TX, Neutral

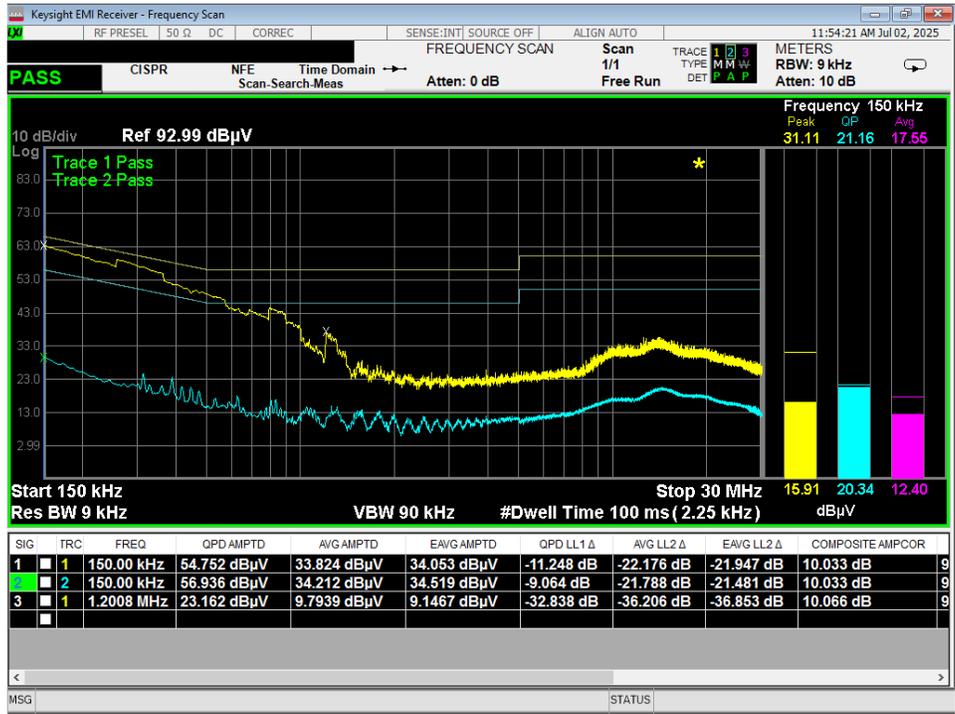
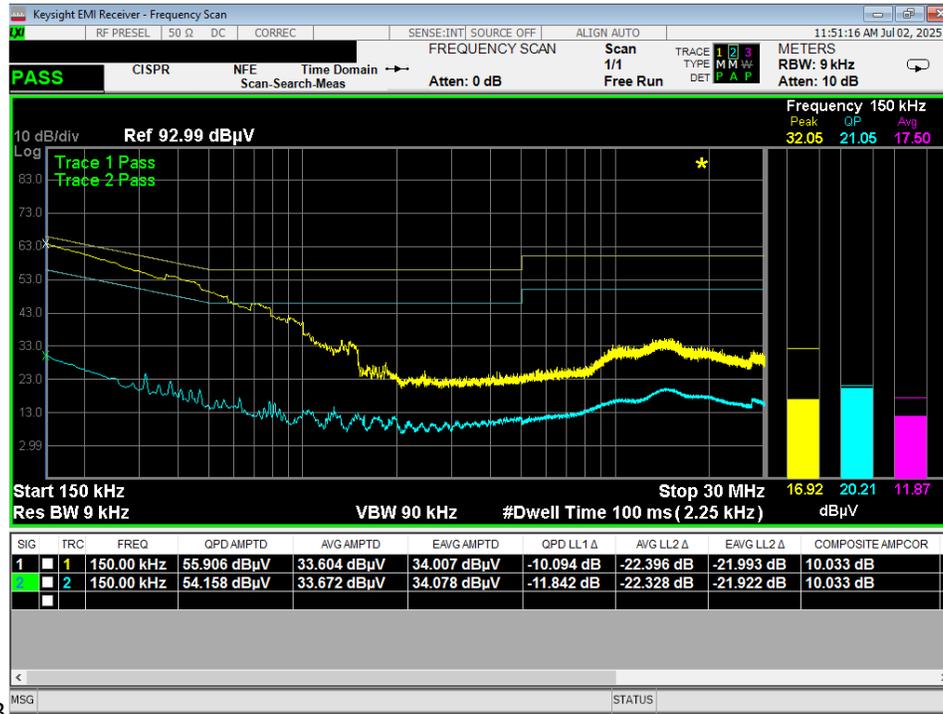


Figure 32 – Conducted Emissions Plot, charging on dock, IDLE, Line



Figure 33 – Conducted Emissions Plot, charging on dock, IDLE, Neutral



3

Figure 34 – Conducted Emissions Plot, charging via USB-C, TX, Line



Figure 35 – Conducted Emissions Plot, charging via USB-C, TX, Neutral



Figure 36 – Conducted Emissions Plot, charging via USB-C, IDLE, Line



Figure 37 – Conducted Emissions Plot, charging via USB-C, IDLE, Neutral



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

APPENDIX A: SAMPLE CALCULATION

Field Strength Calculation

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

$$FS = RA + AF - (-CF + AG) + AV$$

- Where FS = Field Strength
- RA = Receiver Amplitude
- AF = Antenna Factor
- CF = Cable Attenuation Factor
- AG = Amplifier Gain
- AV = Averaging Factor (if applicable)

Assume a receiver reading of 55 dB μ V is obtained. The Antenna Factor of 12 and a Cable Factor of 1.1 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.1 dB μ V/m.

$$FS = 55 + 12 - (-1.1 + 20) + 0 = 48.1 \text{ dB}\mu\text{V/m}$$

The 48.1 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(48.1 \text{ dB}\mu\text{V/m})/20] = 254.1 \mu\text{V/m}$$

AV is calculated by taking the $20 \cdot \log(T_{on}/100)$ where T_{on} is the maximum transmission time in any 100ms window.

EIRP Calculations

In cases where direct antenna port measurement is not possible or would be inaccurate, output power is measured in EIRP. The maximum field strength is measured at a specified distance and the EIRP is calculated using the following equation;

$$\begin{aligned} EIRP \text{ (Watts)} &= [Field \text{ Strength (V/m)} \times \text{antenna distance (m)}]^2 / 30 \\ Power \text{ (watts)} &= 10^{[Power \text{ (dBm)}/10]} / 1000 \\ Voltage \text{ (dB}\mu\text{V)} &= Power \text{ (dBm)} + 107 \text{ (for } 50\Omega \text{ measurement systems)} \\ Field \text{ Strength (V/m)} &= 10^{[Field \text{ Strength (dB}\mu\text{V/m)} / 20]} / 10^6 \\ Gain &= 1 \text{ (numeric gain for isotropic radiator)} \\ Conversion \text{ from 3m field strength to EIRP (d=3):} & \end{aligned}$$

$$\begin{aligned} EIRP &= [FS(V/m) \times d^2]/30 = FS [0.3] \quad \text{for } d = 3 \\ EIRP(dBm) &= FS(dB\mu V/m) - 10(\log 10^9) + 10\log[0.3] = FS(dB\mu V/m) - 95.23 \\ 10\log(10^9) &\text{ is the conversion from micro to milli} \end{aligned}$$



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		

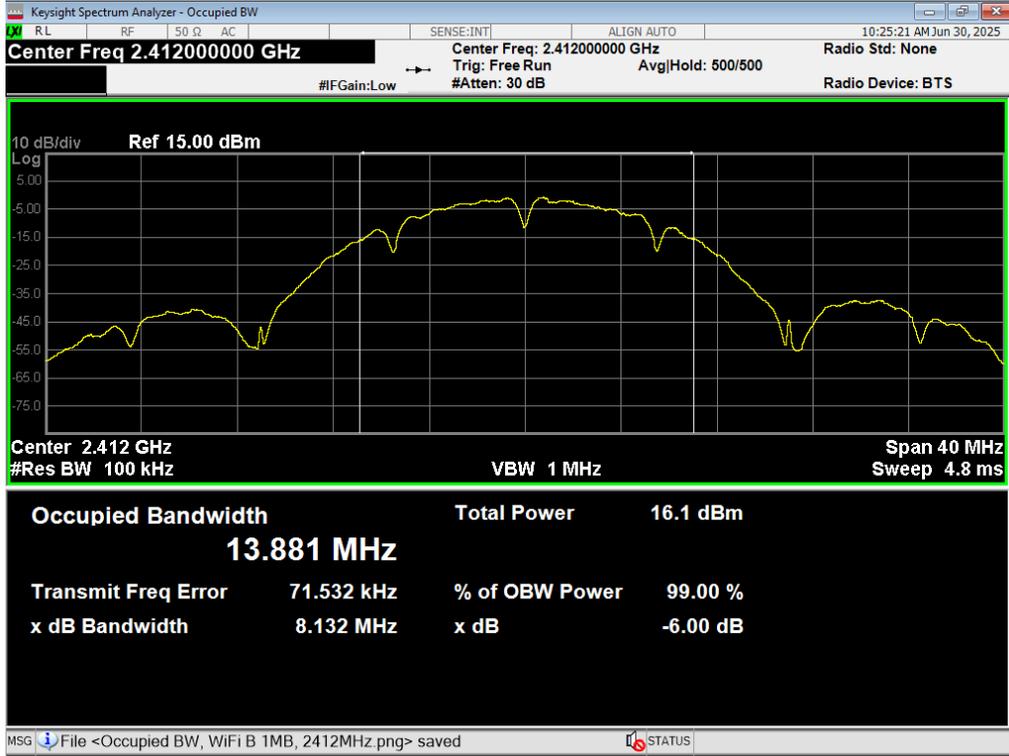
APPENDIX B – MEASUREMENT UNCERTAINTY

NCEE Labs does not add uncertainty levels to measurement levels
Where relevant, the following measurement uncertainty levels have been for tests performed in this test report:

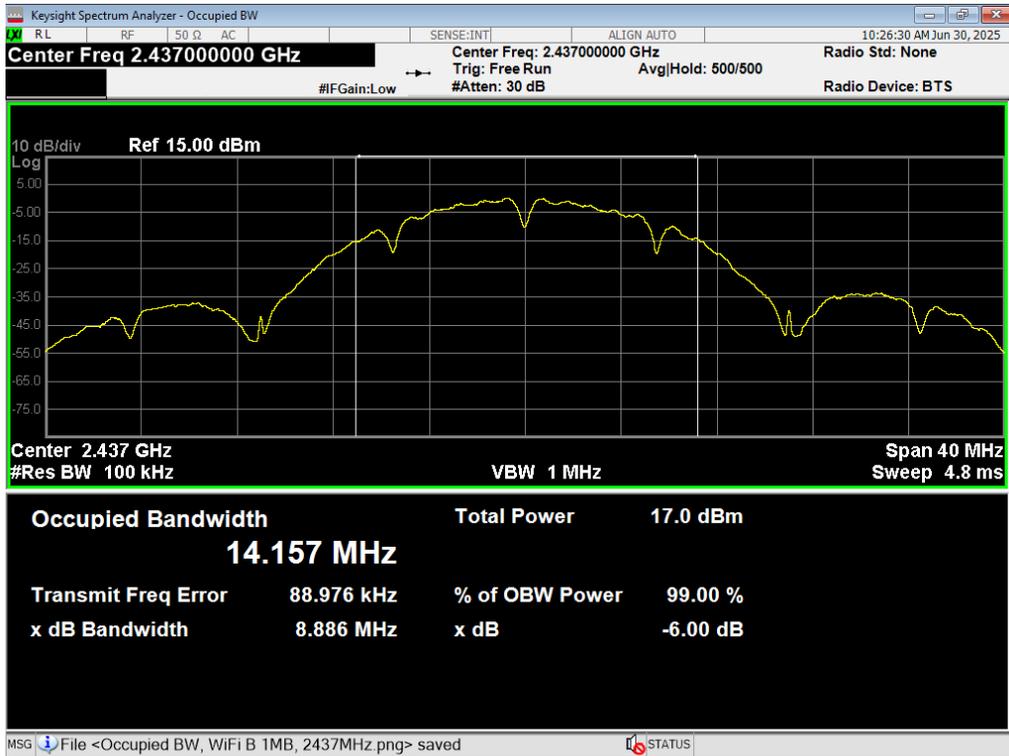
Test	Frequency Range	Uncertainty Value (dB)
Radiated Emissions, 3m	30MHz - 1GHz	±4.31
Radiated Emissions, 3m	1GHz - 18GHz	±5.08
Emissions limits, conducted	30MHz – 18GHz	±3.03

Expanded uncertainty values are calculated to a confidence level of 95%.

APPENDIX C – GRAPHS AND TABLES



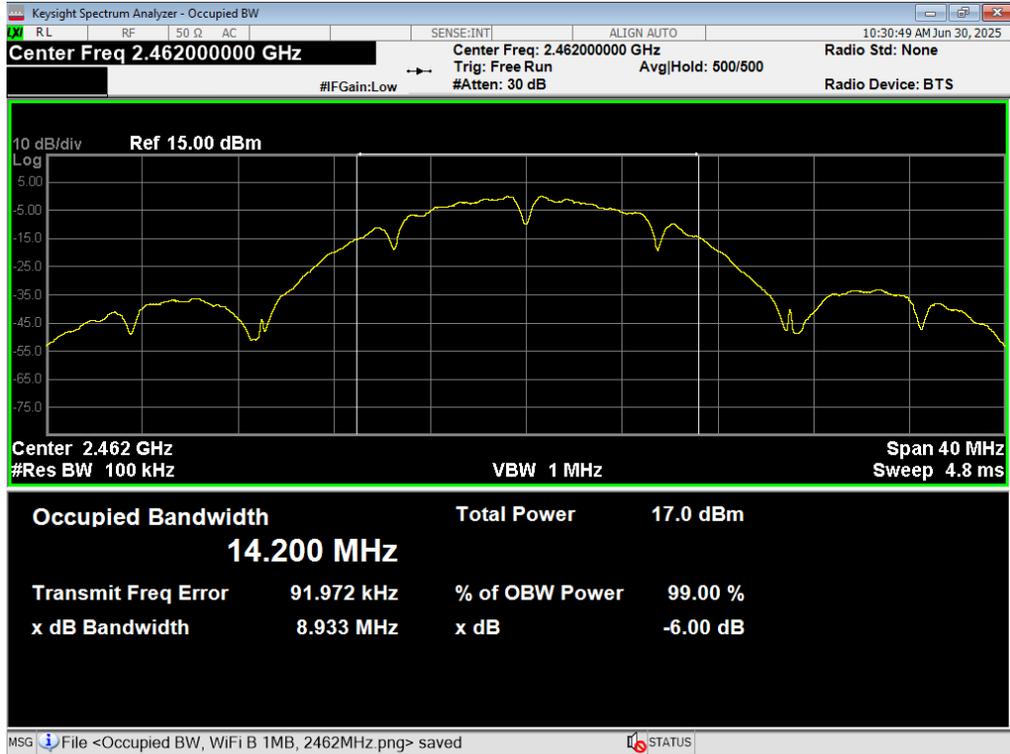
01 6dB BW, WiFi B 1MB, 2412MHz



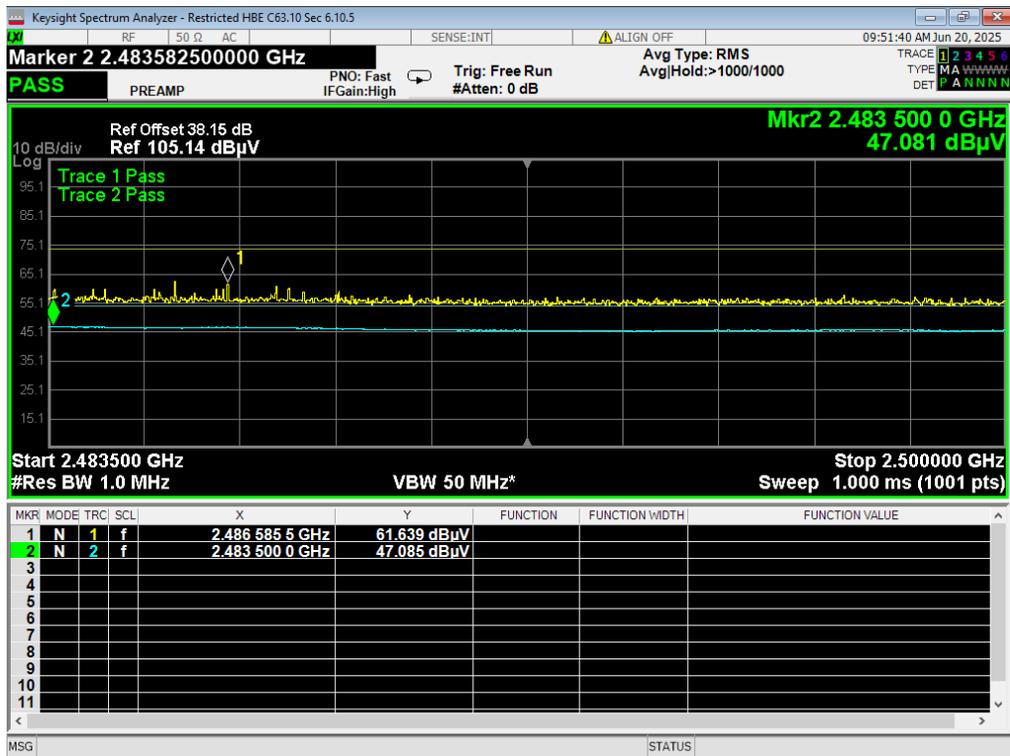
02 6dB BW, WiFi B 1MB, 2437MHz



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		



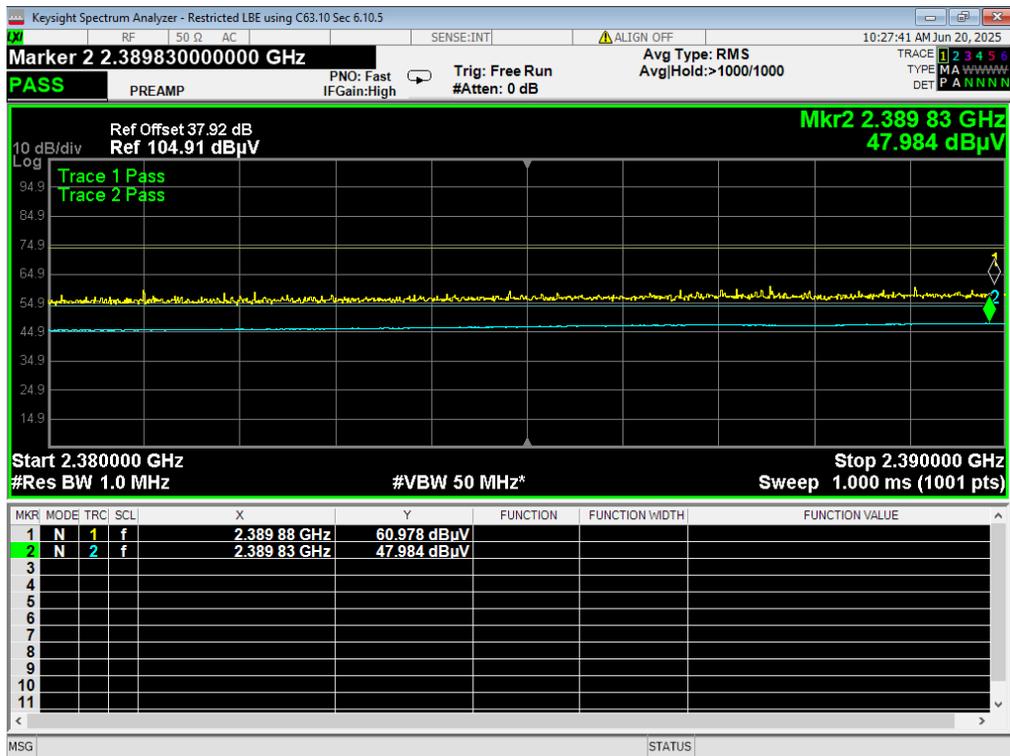
03 6dB BW, WiFi B 1MB, 2462MHz



04 HBE Restricted, WiFi B 1MB, ch11 2462MHz, pwr42



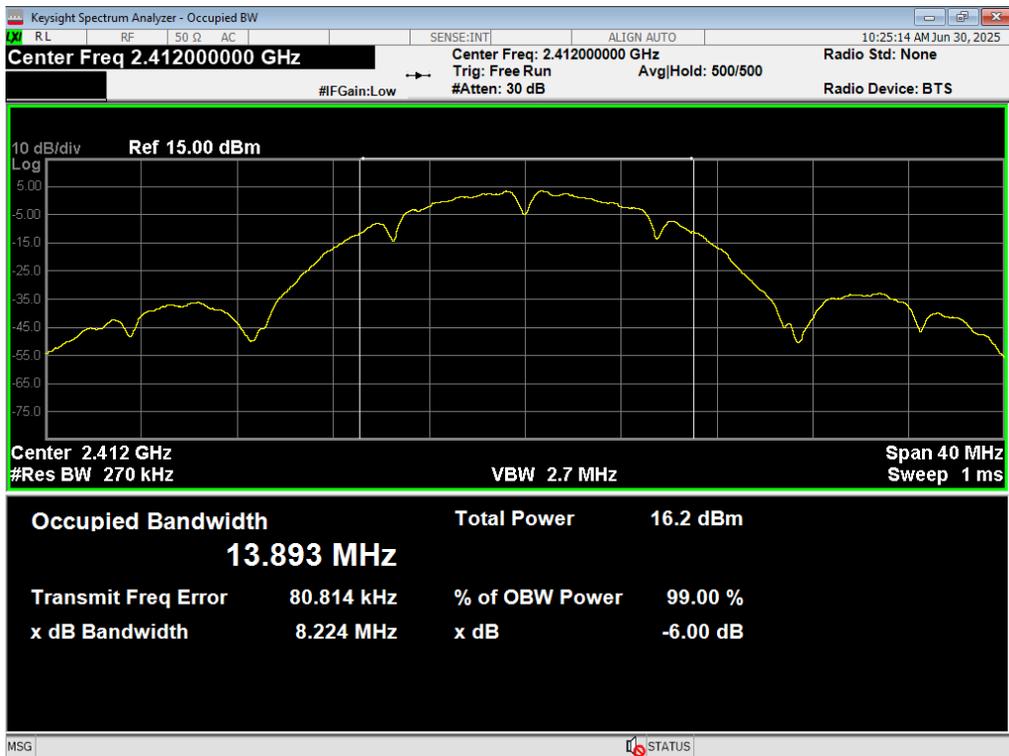
05 HBE Unrestricted, WiFi B 1MB, 2462MHz



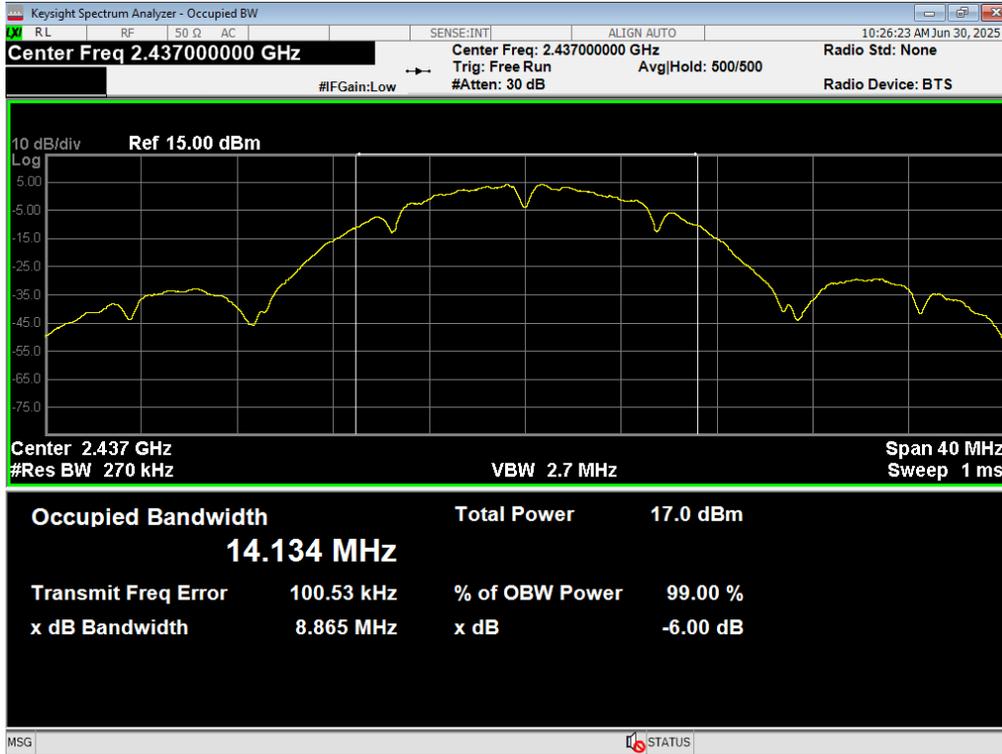
06 LBE Restricted, WiFi B 1MB, ch1 2412MHz, pwr42



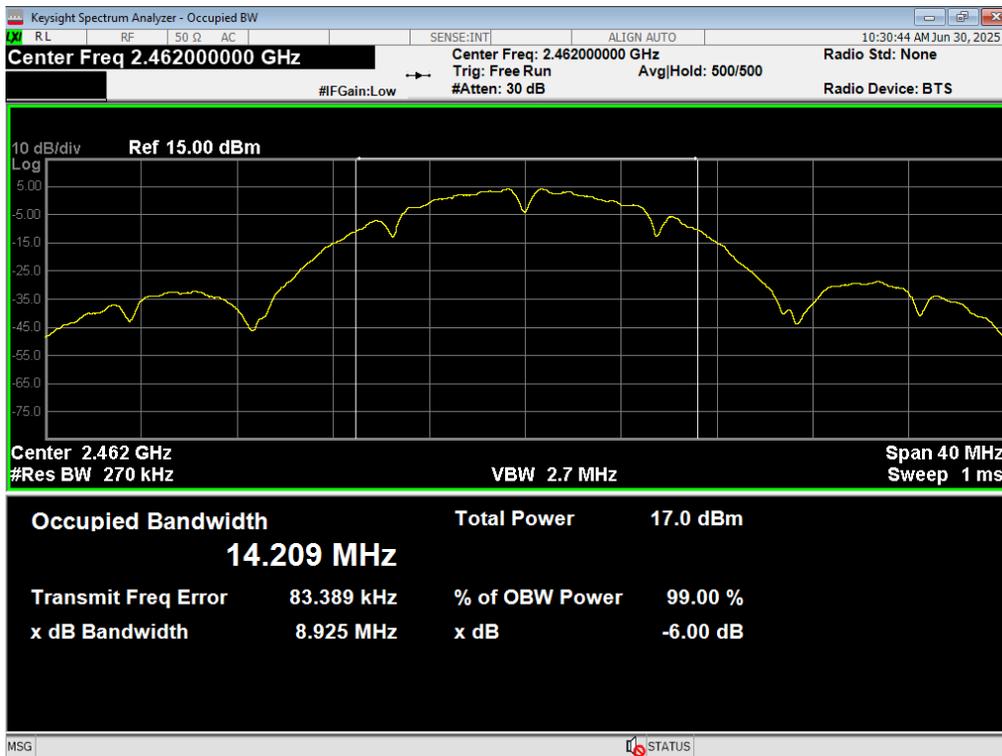
07 LBE Unrestricted, WiFi B 1MB, 2412MHz



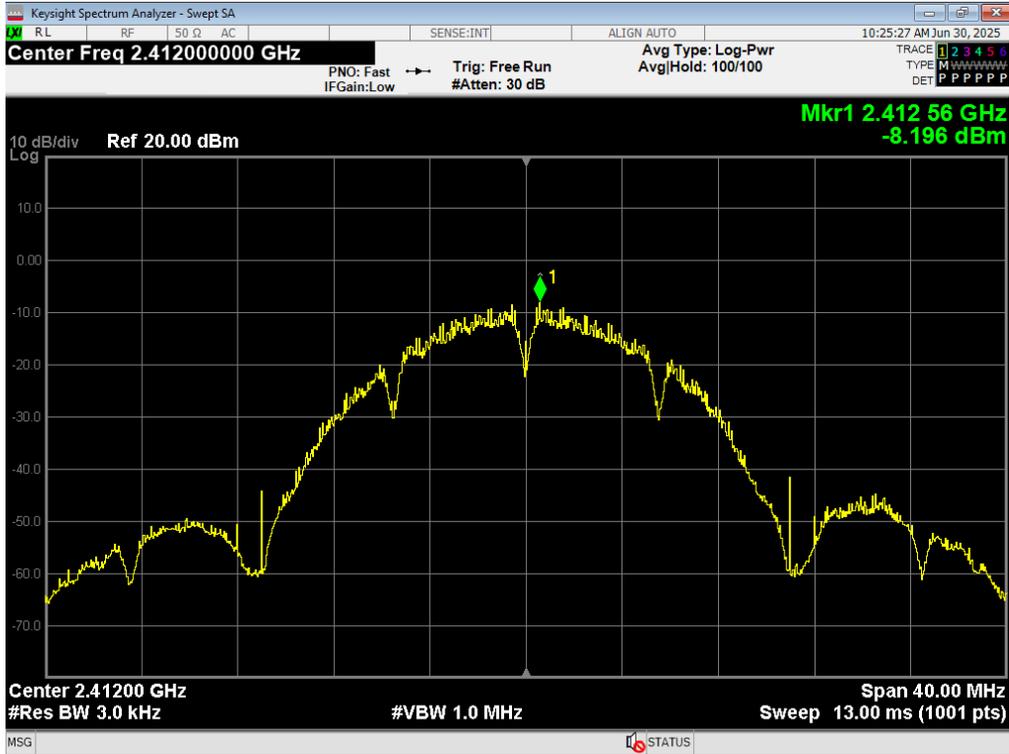
08 Occupied BW, WiFi B 1MB, 2412MHz



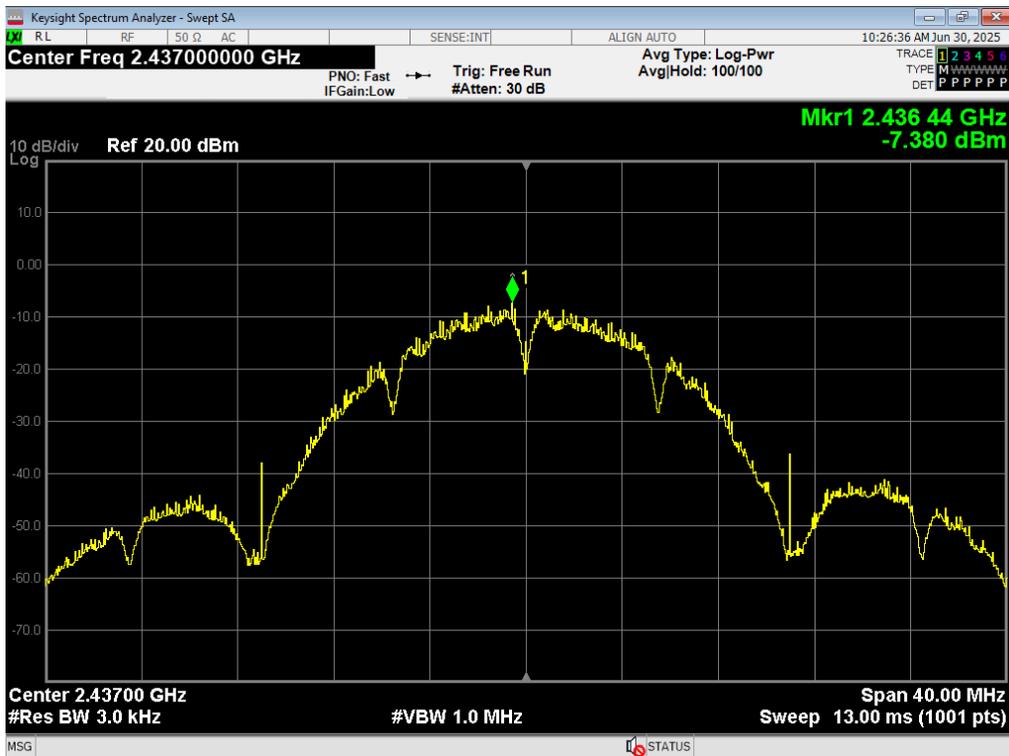
09 Occupied BW, WiFi B 1MB, 2437MHz



10 Occupied BW, WiFi B 1MB, 2462MHz



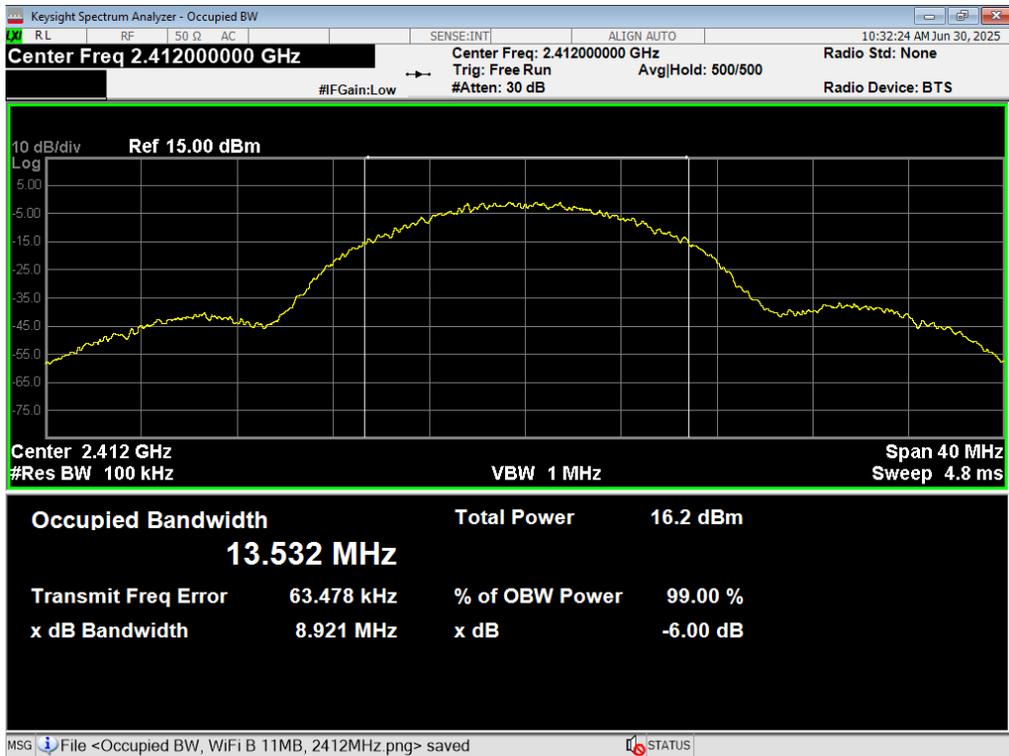
11 PSD, WiFi B 1MB, 2412MHz



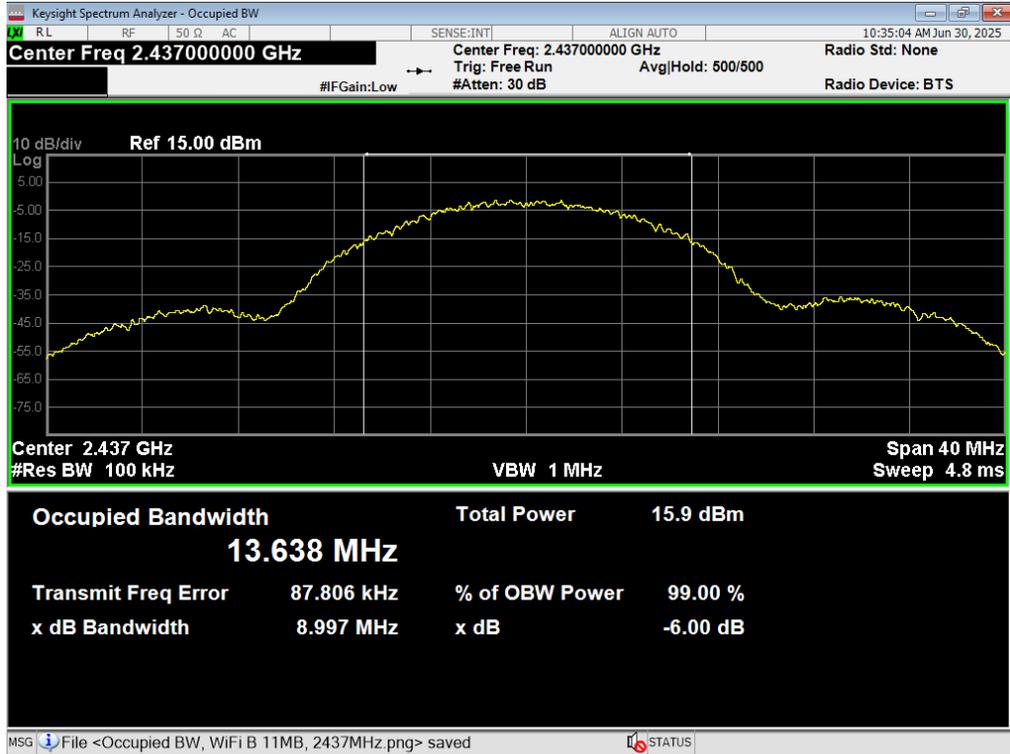
12 PSD, WiFi B 1MB, 2437MHz



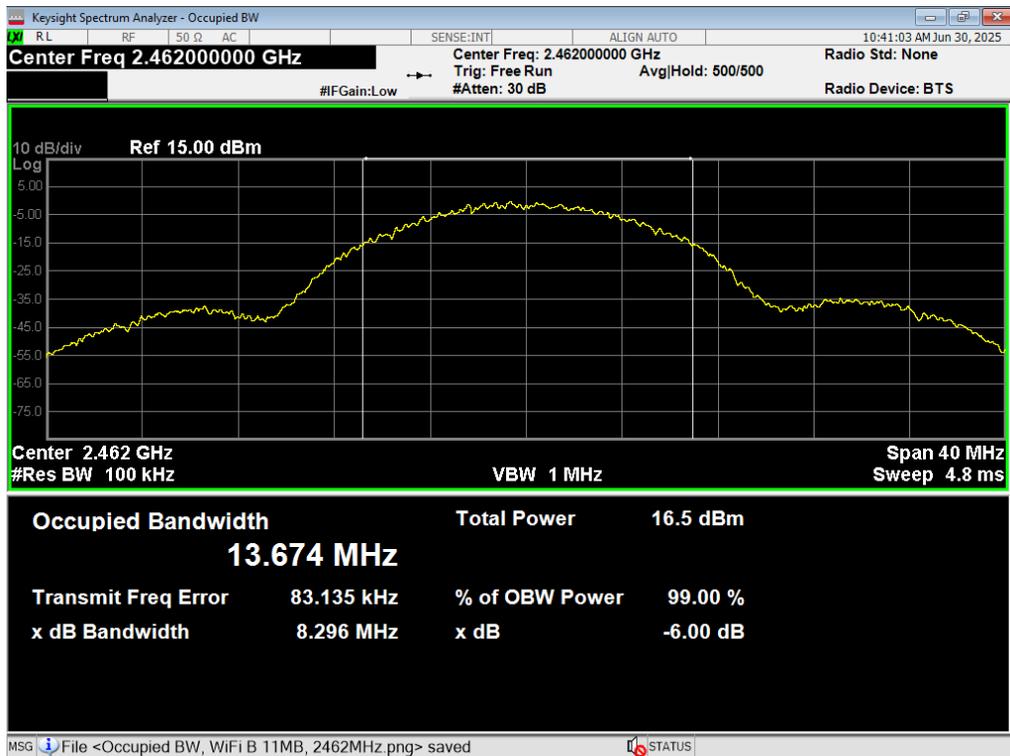
13 PSD, WiFi B 1MB, 2462MHz



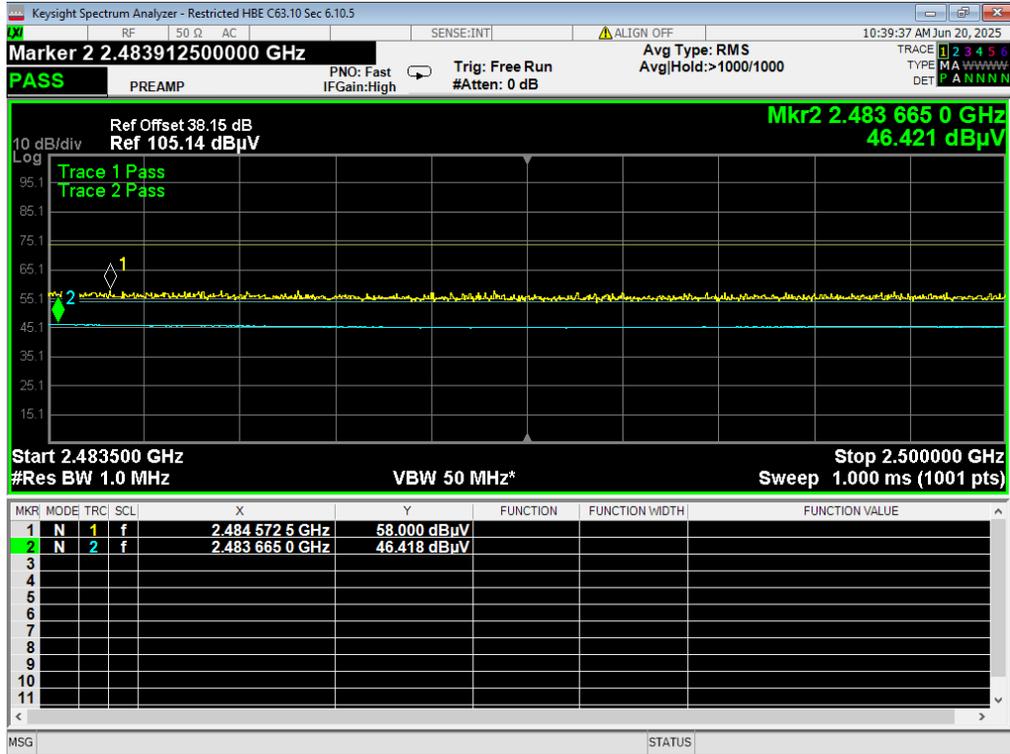
14 6dB BW, WiFi B 11MB, 2412MHz



15 6dB BW, WiFi B 11MB, 2437MHz



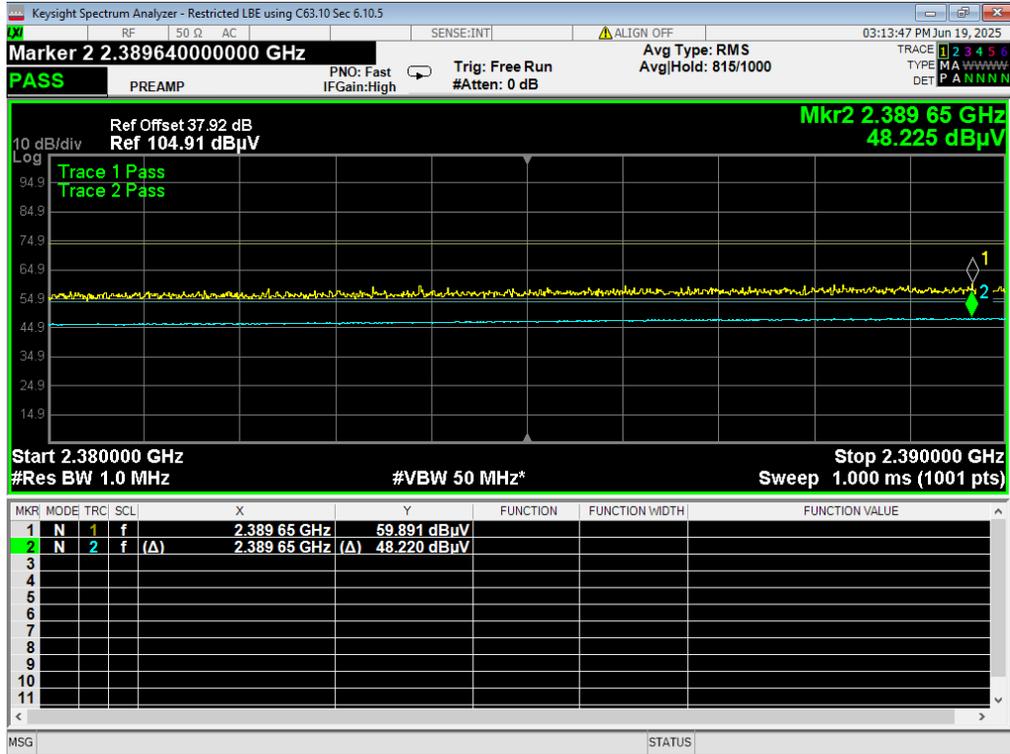
16 6dB BW, WiFi B 11MB, 2462MHz



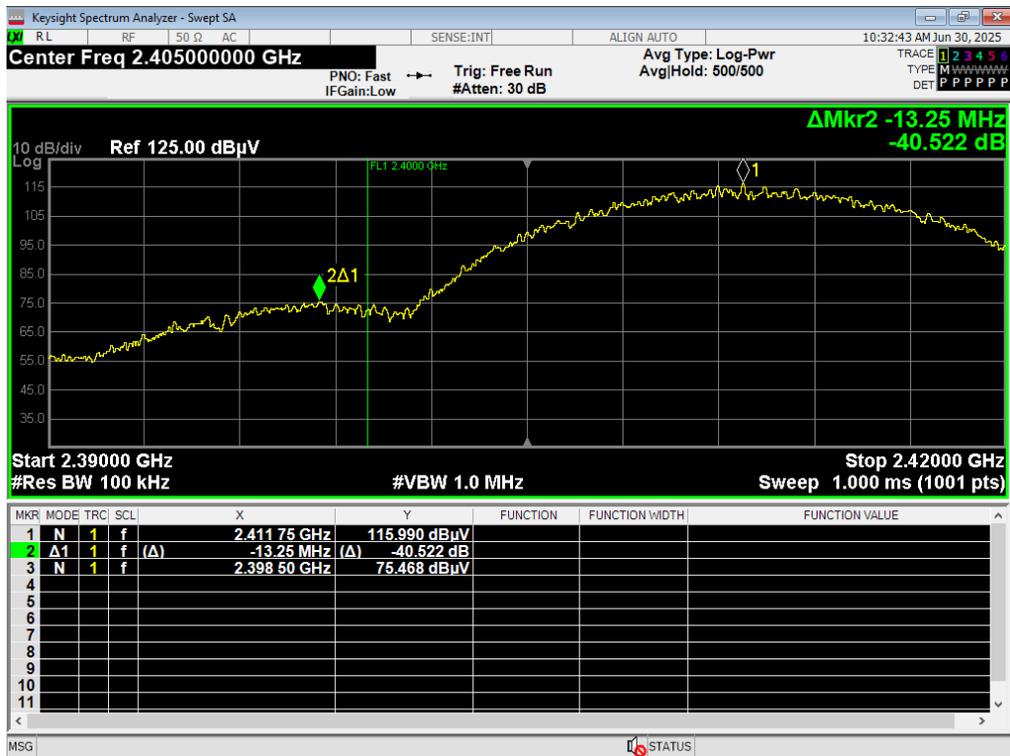
17 HBE Restricted, WiFi B 11MB, ch11 2462MHz, pwr42



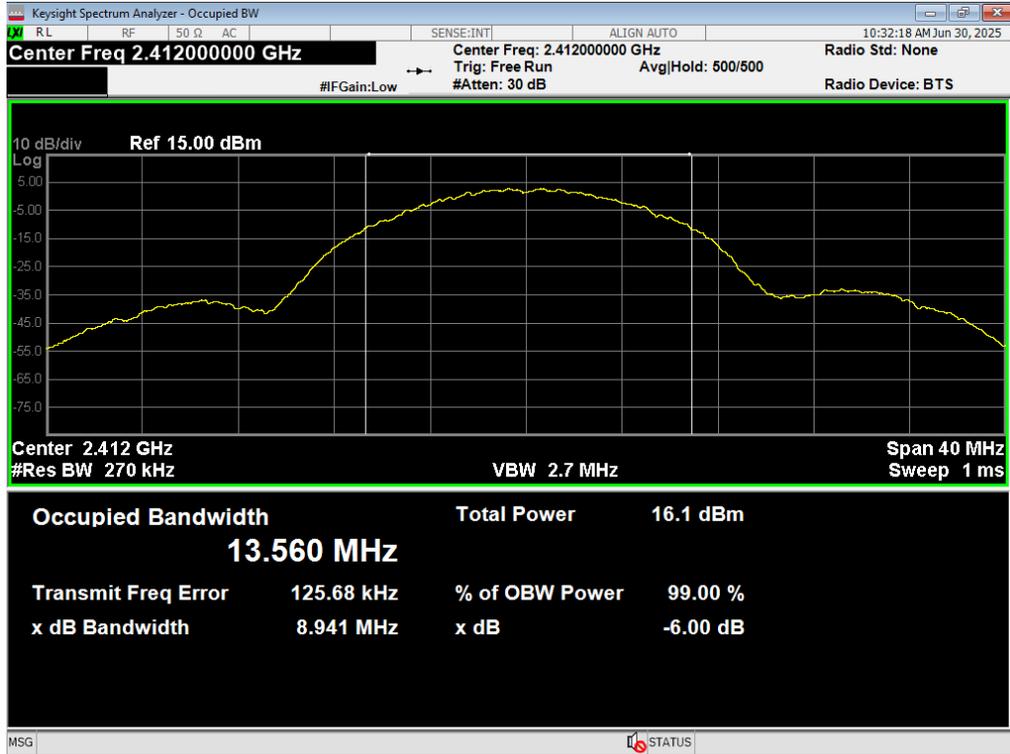
18 HBE Unrestricted, WiFi B 11MB, 2462MHz



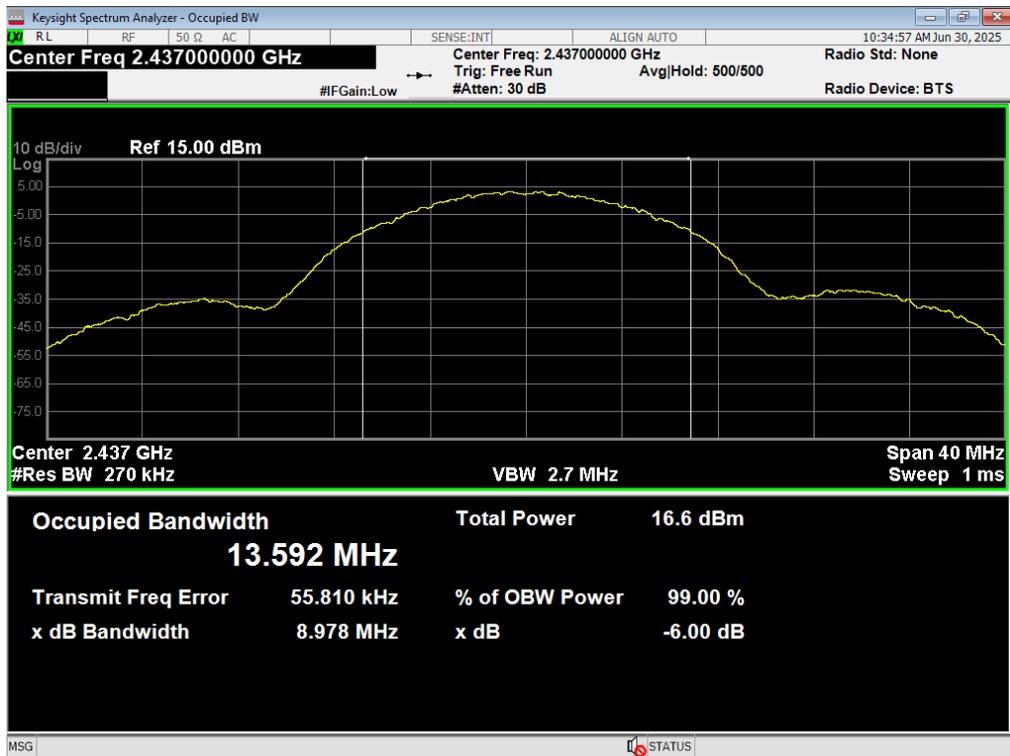
19 LBE Restricted, WiFi B 11MB, ch1 2412MHz, pwr42



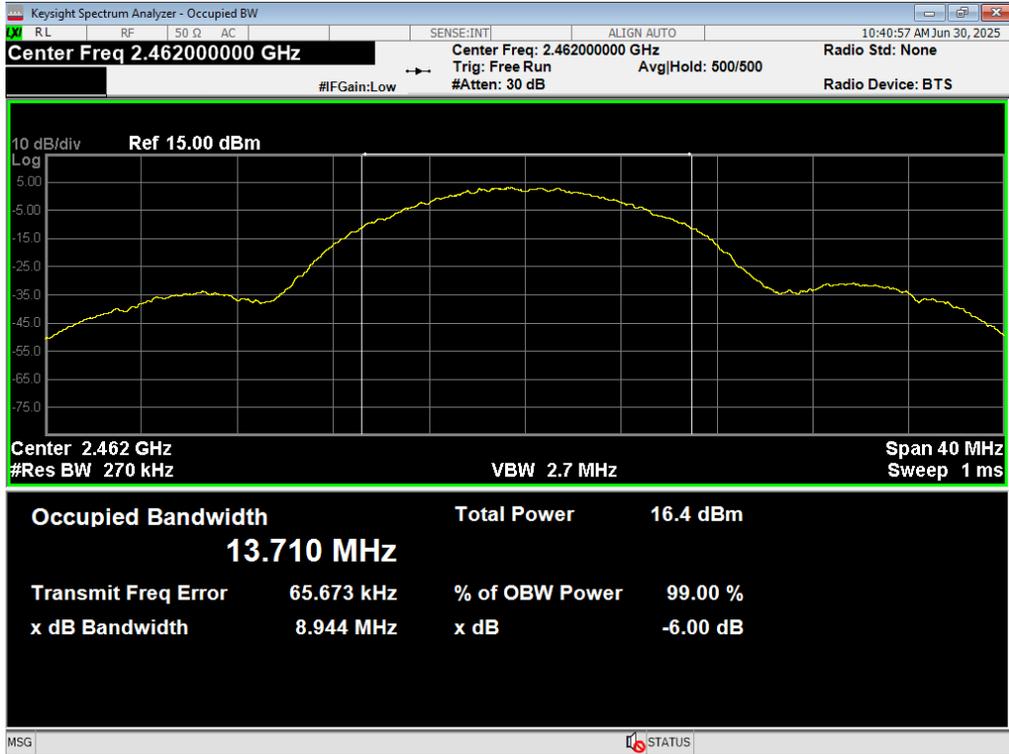
20 LBE Unrestricted, WiFi B 11MB, 2412MHz



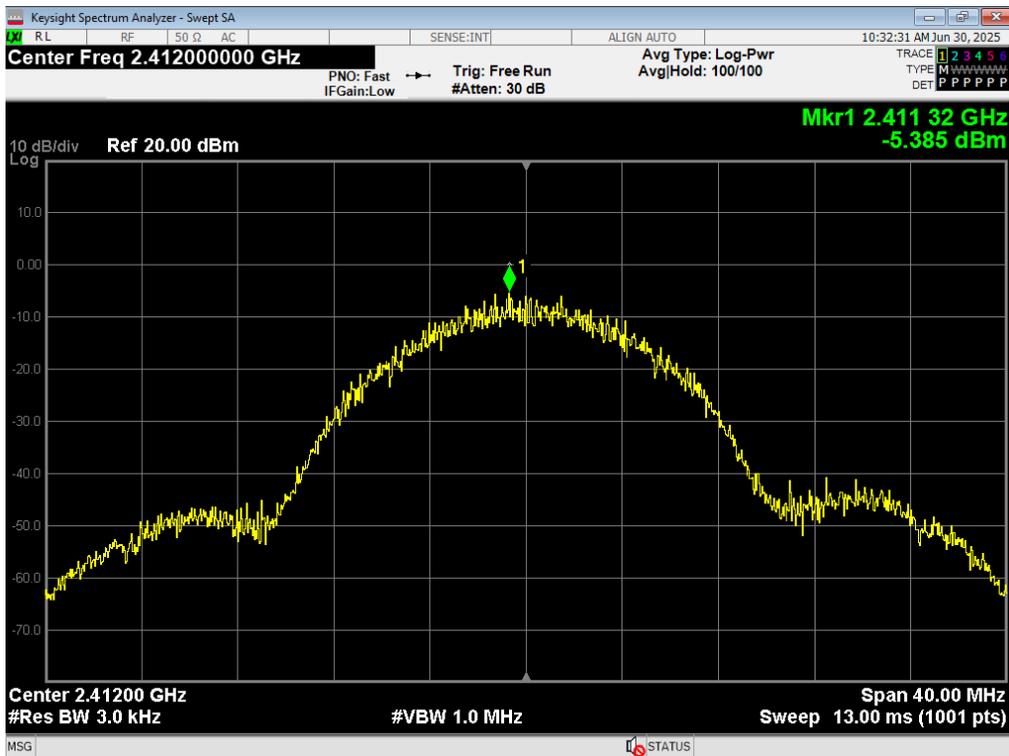
21 Occupied BW, WiFi B 11MB, 2412MHz



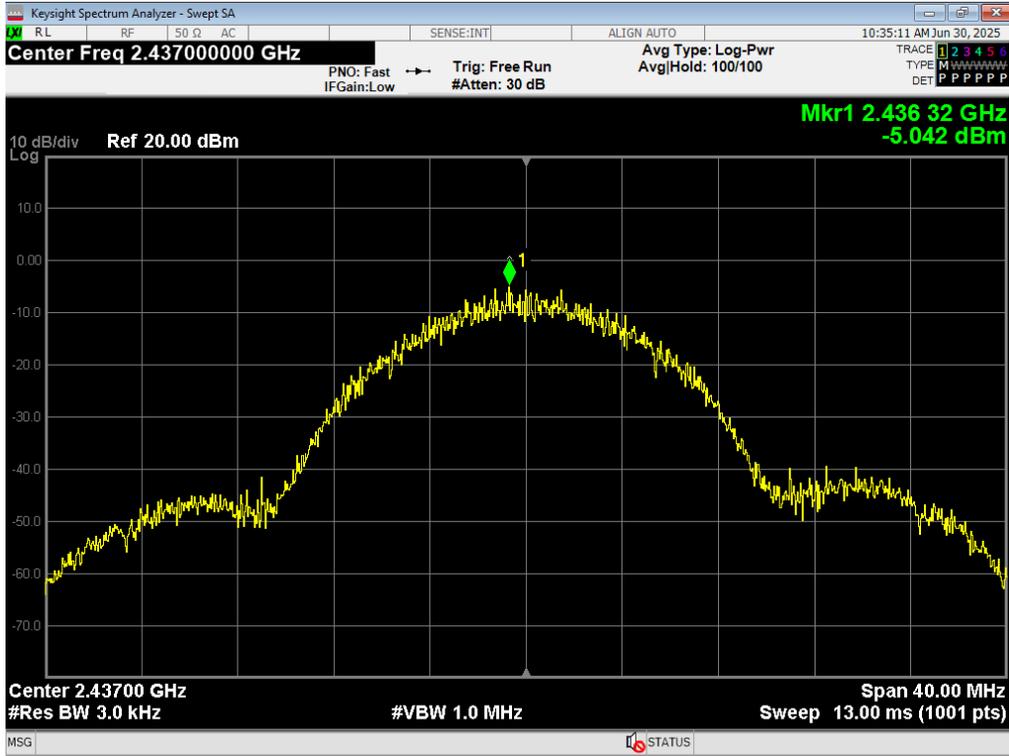
22 Occupied BW, WiFi B 11MB, 2437MHz



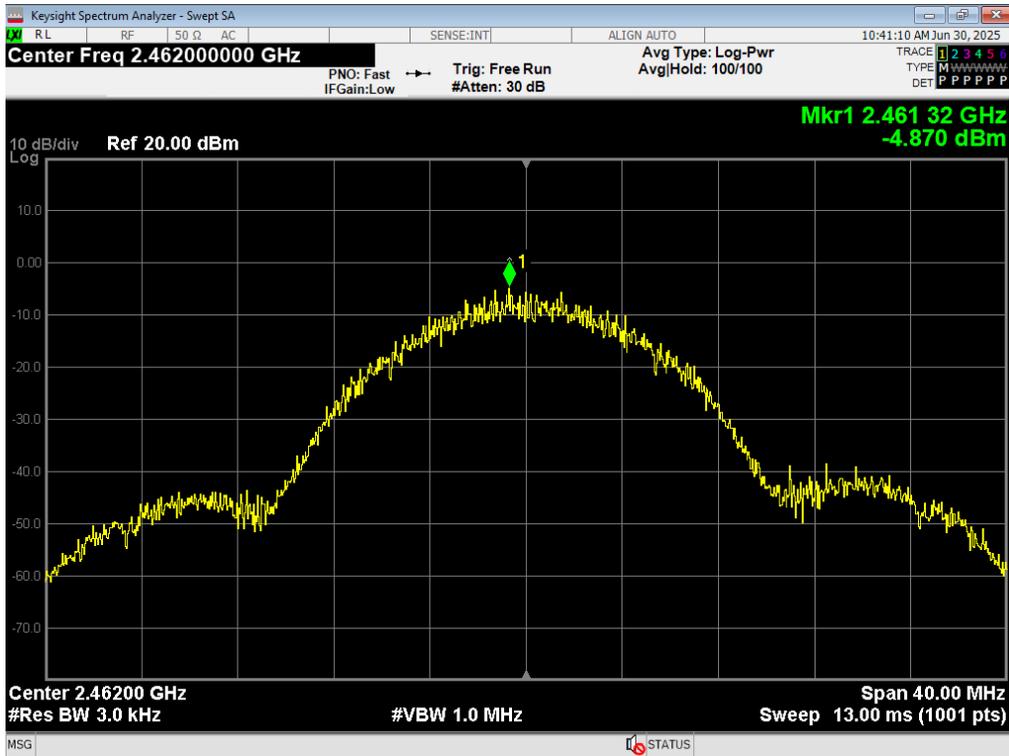
23 Occupied BW, WiFi B 11MB, 2462MHz



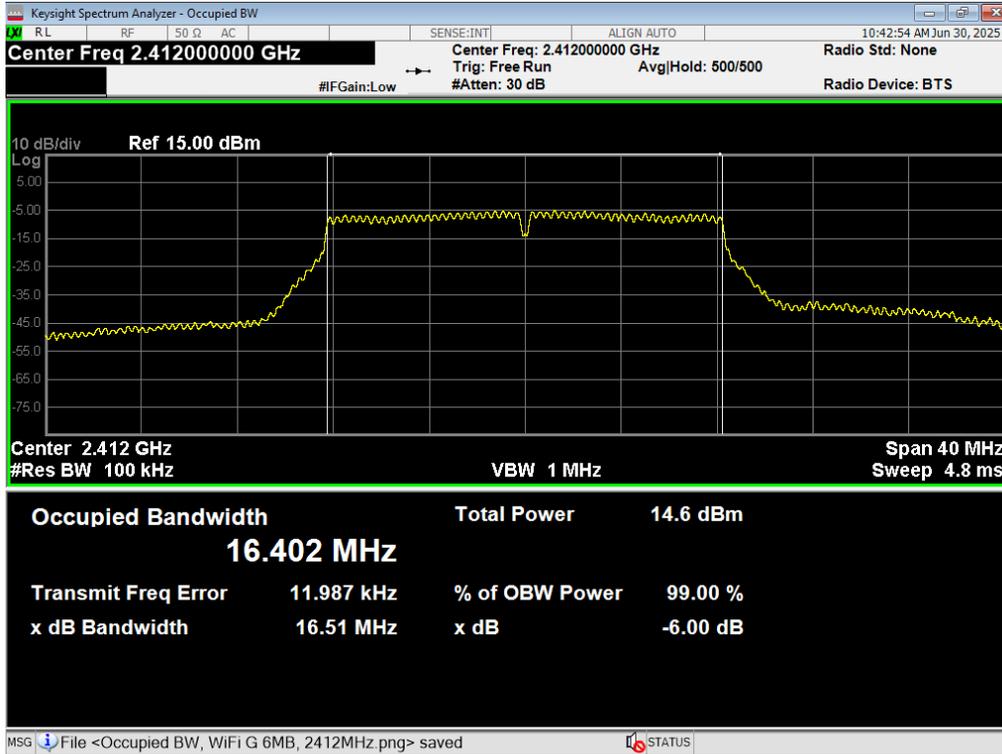
24 PSD, WiFi B 11MB, 2412MHz



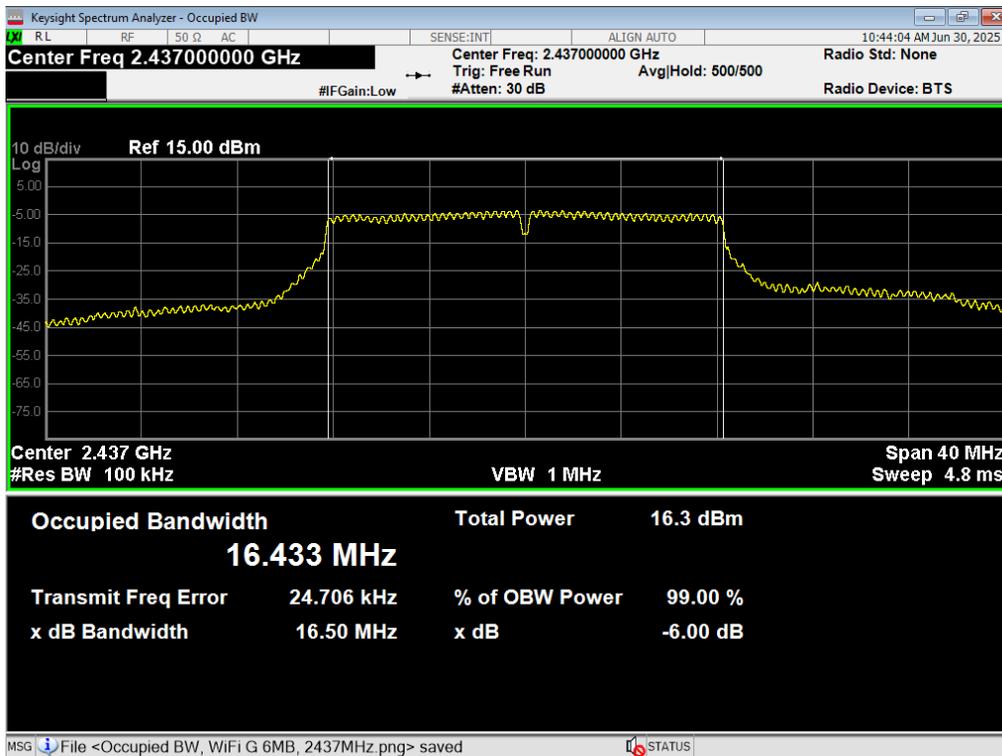
25 PSD, WiFi B 11MB, 2437MHz



26 PSD, WiFi B 11MB, 2462MHz



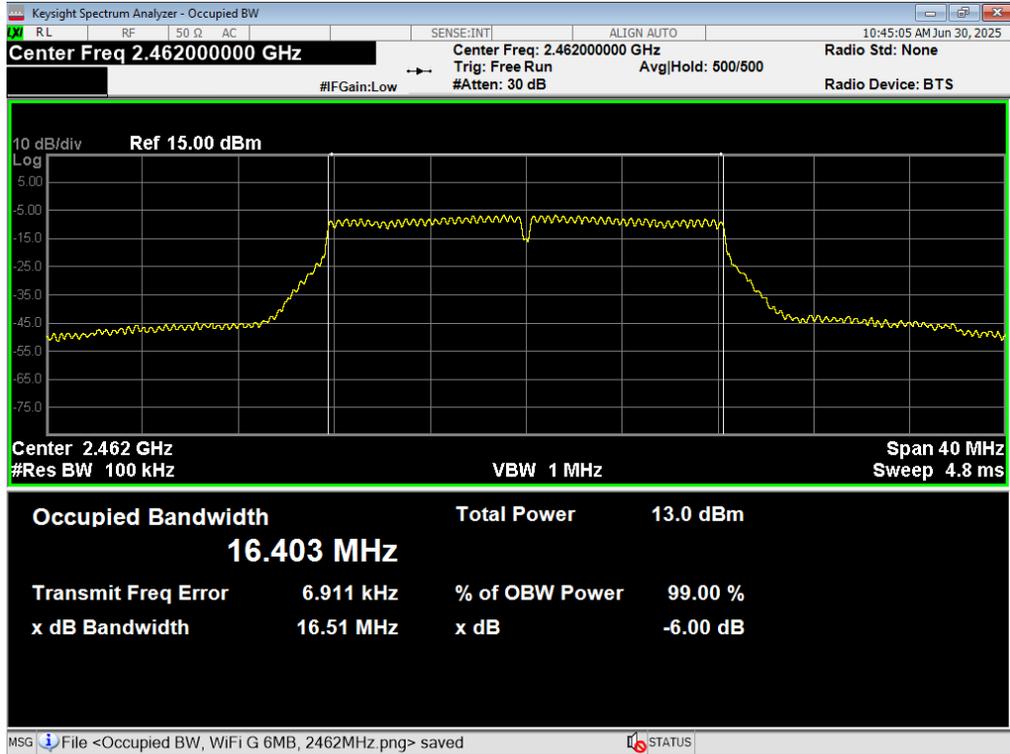
27 6dB BW, WiFi G 6MB, 2412MHz



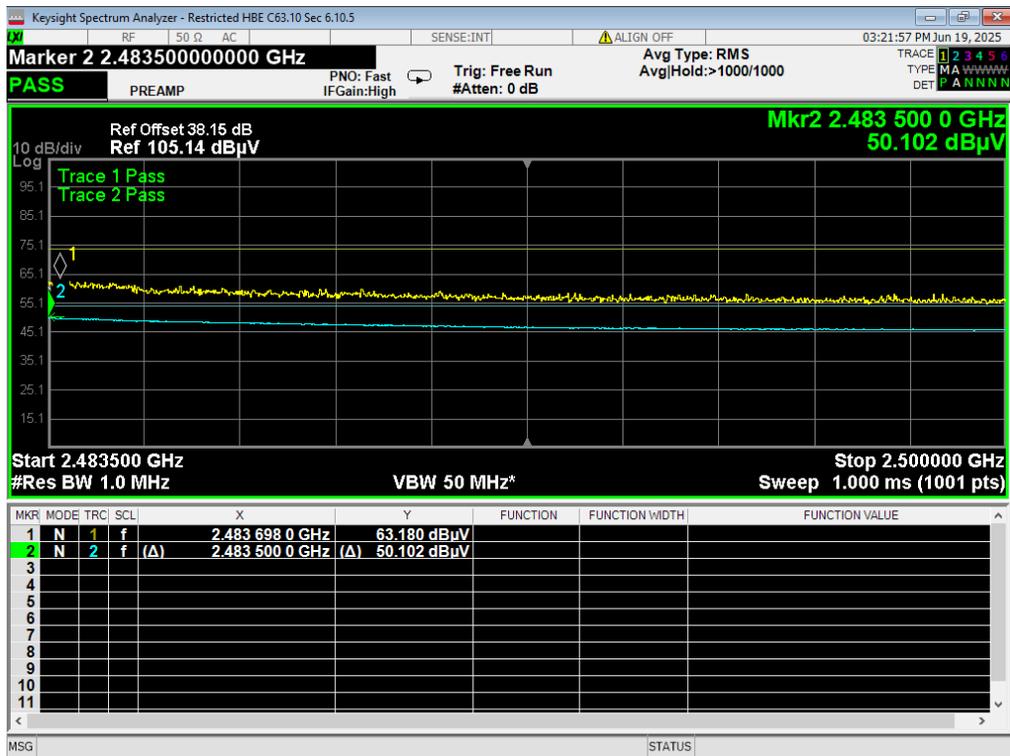
28 6dB BW, WiFi G 6MB, 2437MHz



Report Number:	R20250124-00-E6	Rev	B
Prepared for:	Garmin International, Inc.		



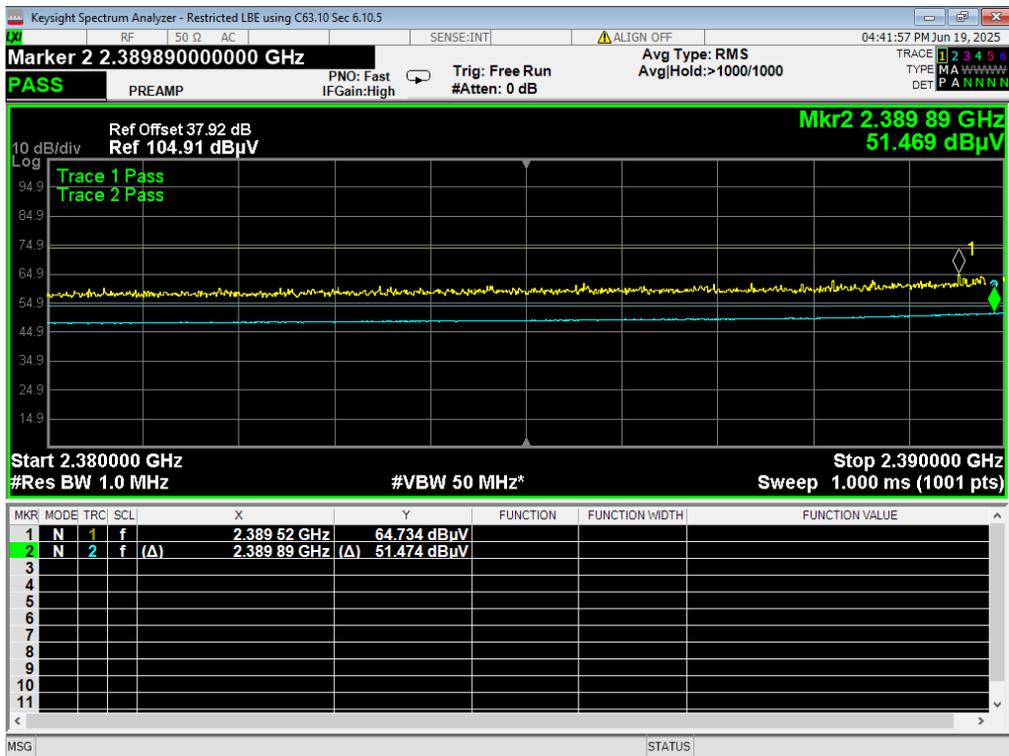
29 dB BW, WiFi G 6MB, 2462MHz



30 HBE Restricted, WiFi G 6MB, ch11, 2462MHz



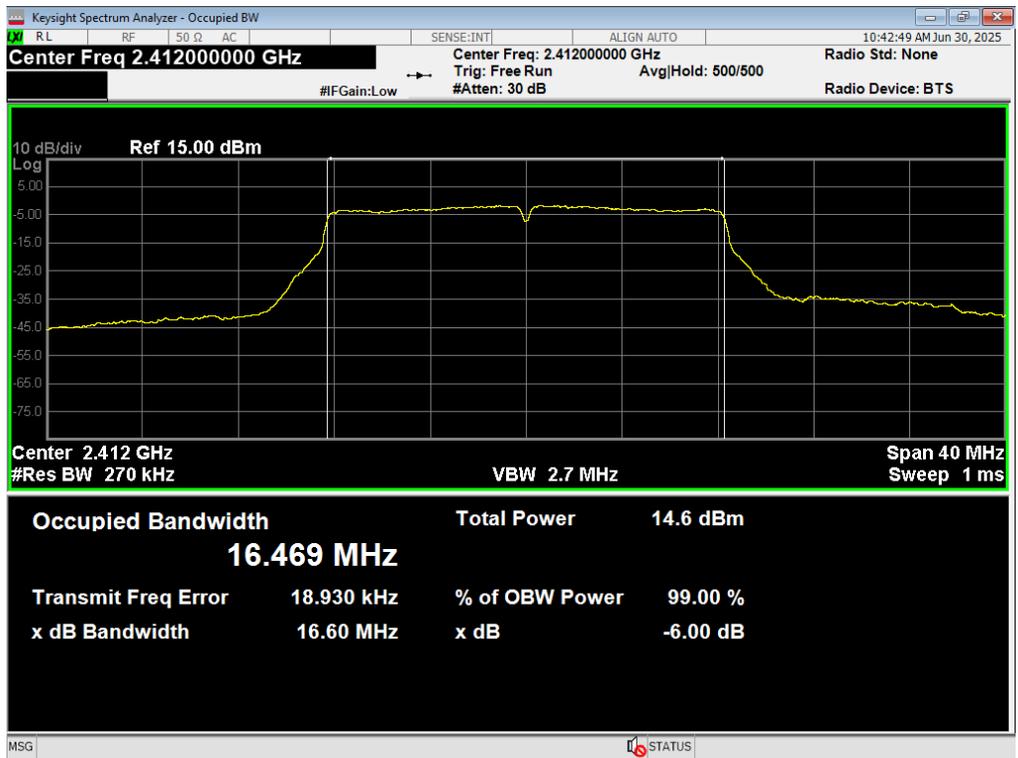
31 HBE Unrestricted, WiFi G 6MB, 2462MHz



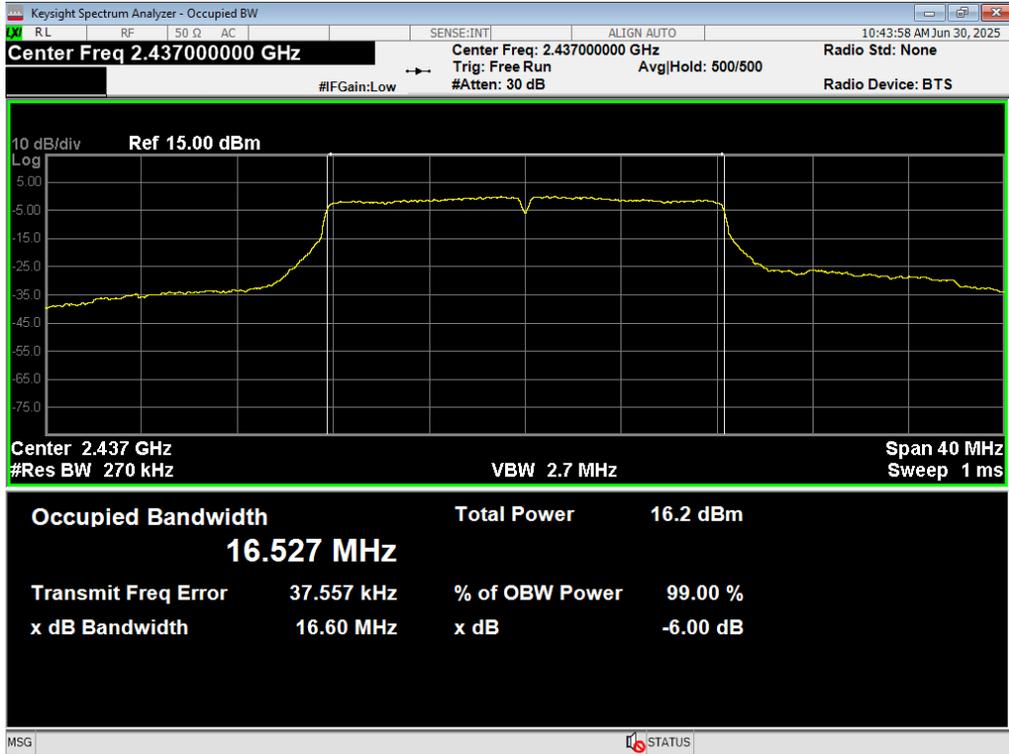
32 LBE Restricted, WiFi G 6MB, ch1 2412MHz



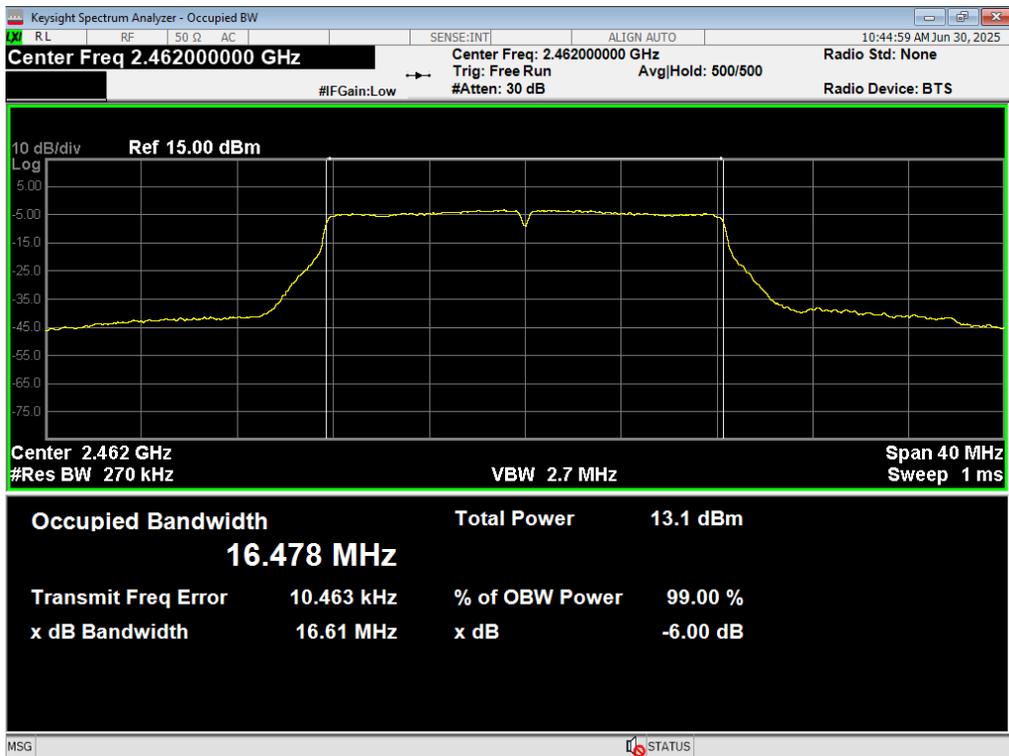
33 LBE Unrestricted, WiFi G 6MB, 2412MHz



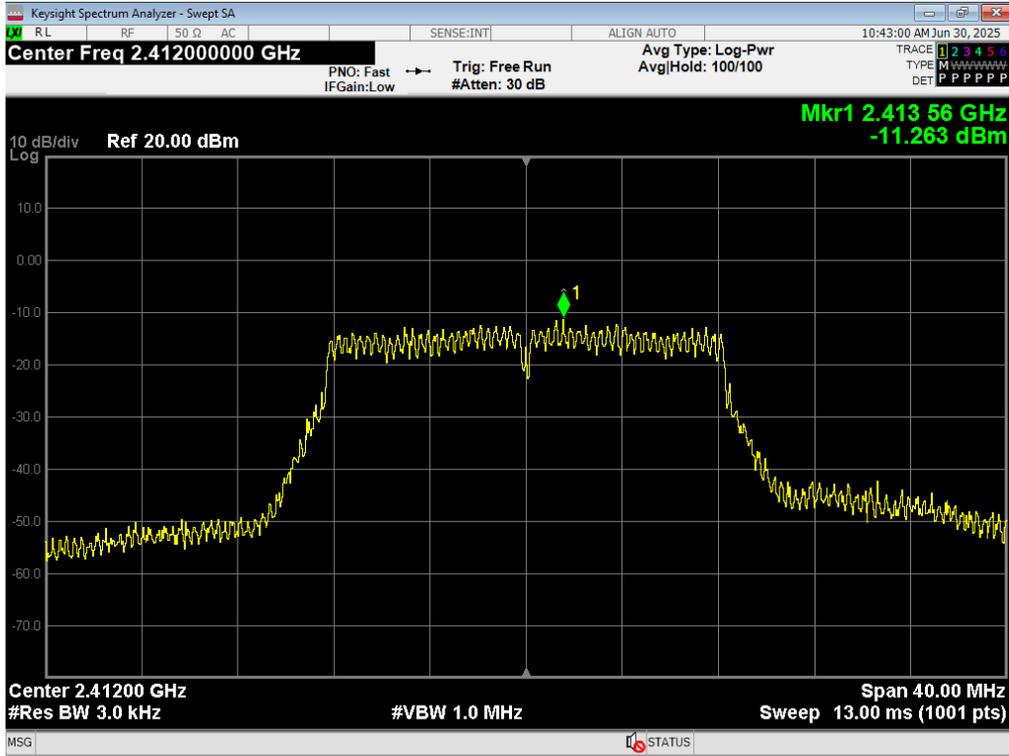
34 Occupied BW, WiFi G 6MB, 2412MHz



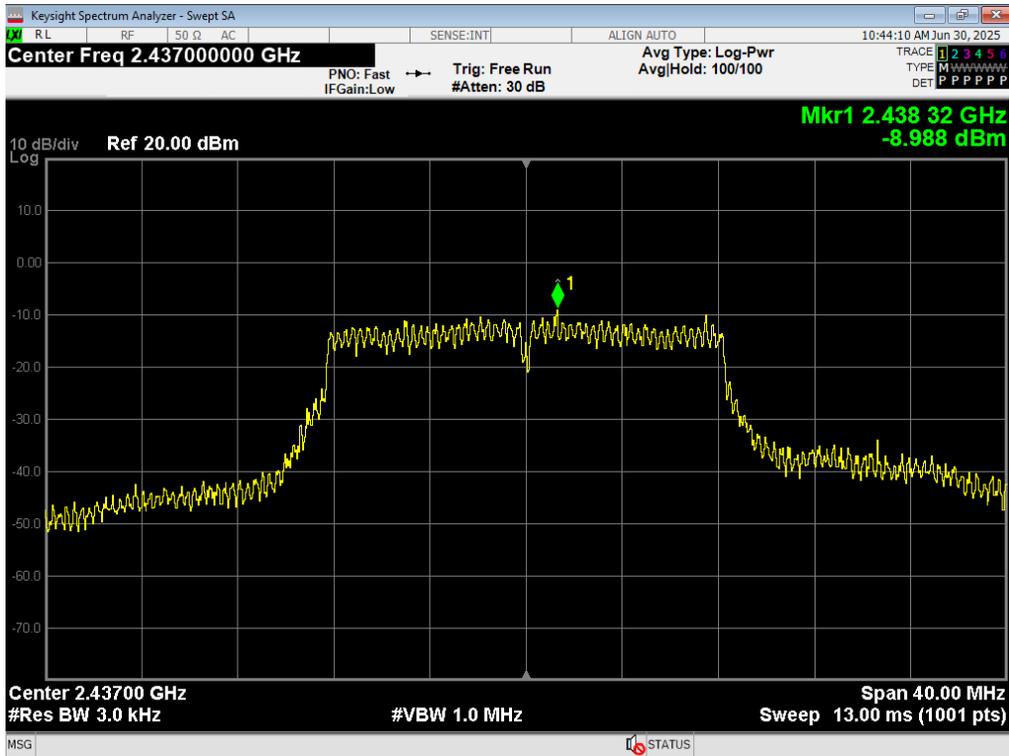
35 Occupied BW, WiFi G 6MB, 2437MHz



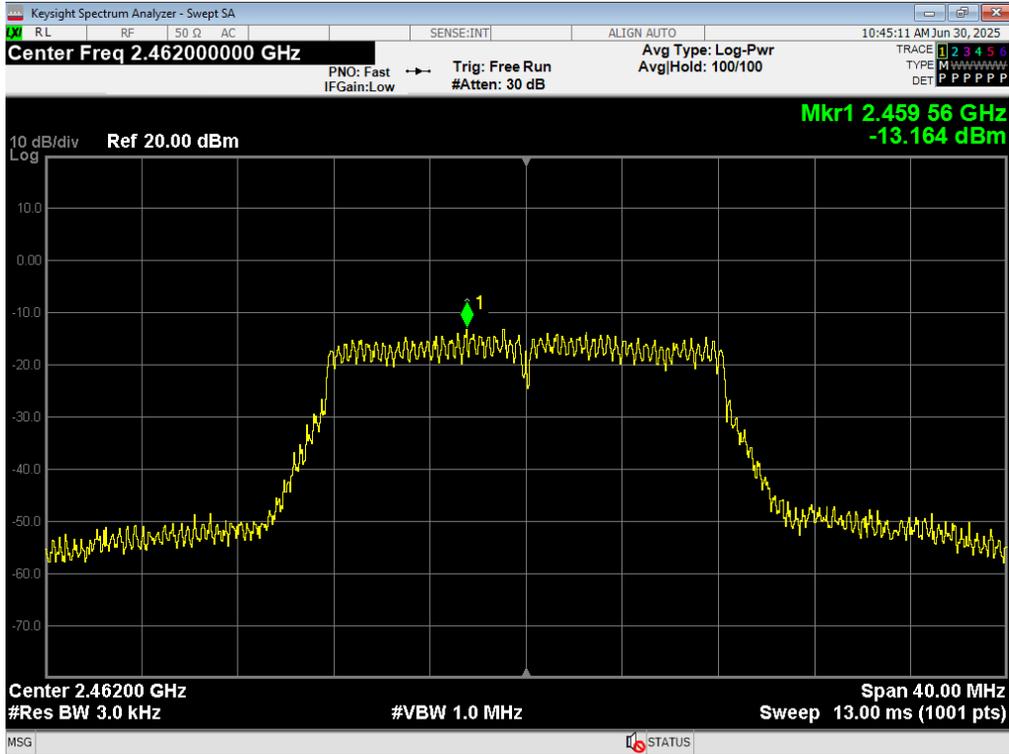
36 Occupied BW, WiFi G 6MB, 2462MHz



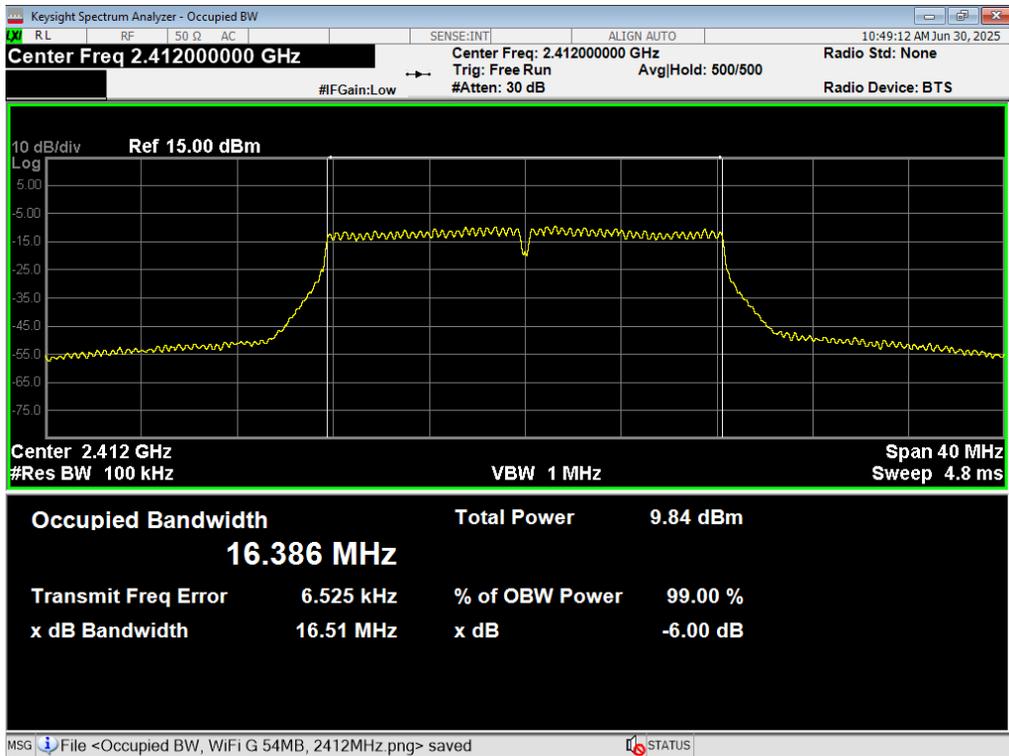
37 PSD, WiFi G 6MB, 2412MHz



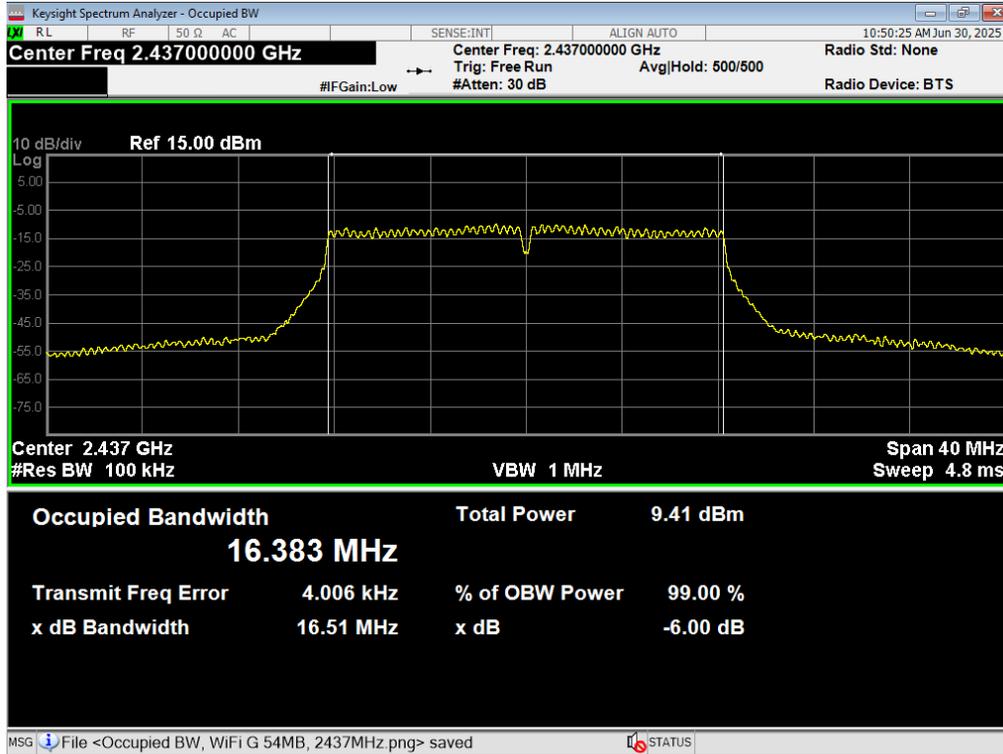
38 PSD, WiFi G 6MB, 2437MHz



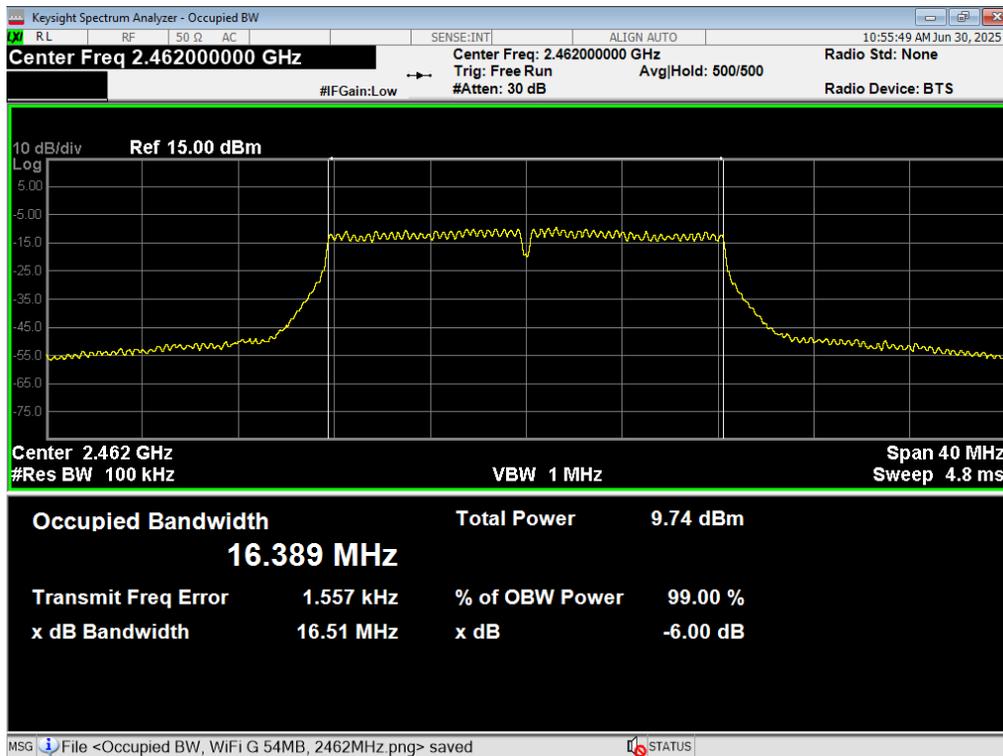
39 PSD, WiFi G 6MB, 2462MHz



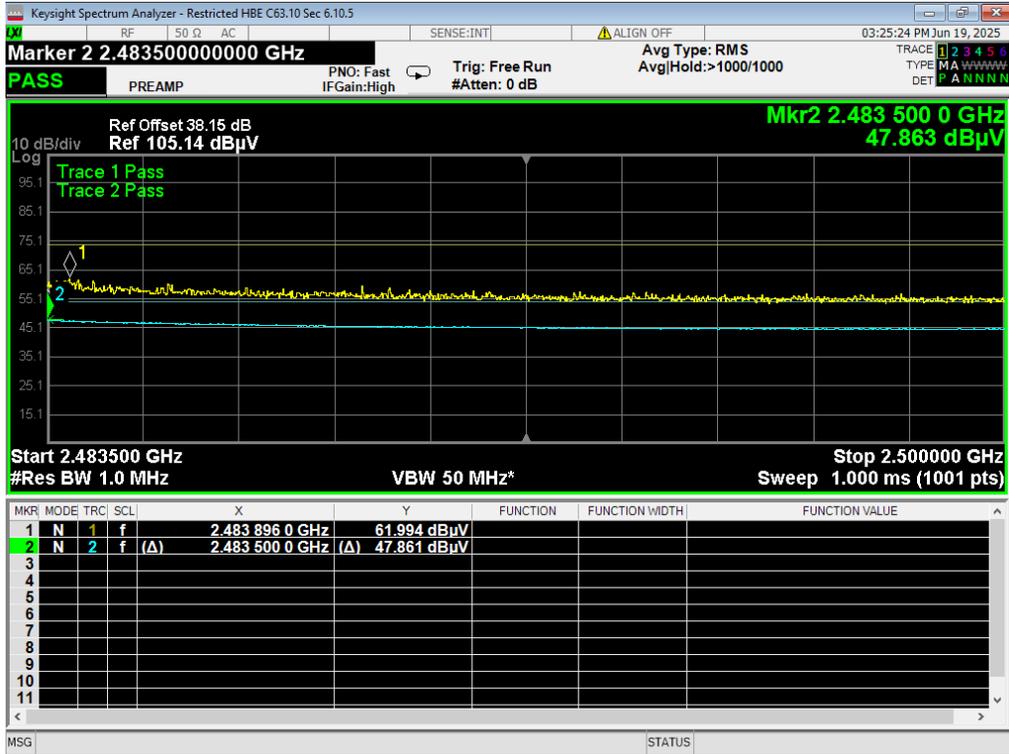
40 6dB BW, WiFi G 54MB, 2412MHz



41 6dB BW, WiFi G 54MB, 2437MHz



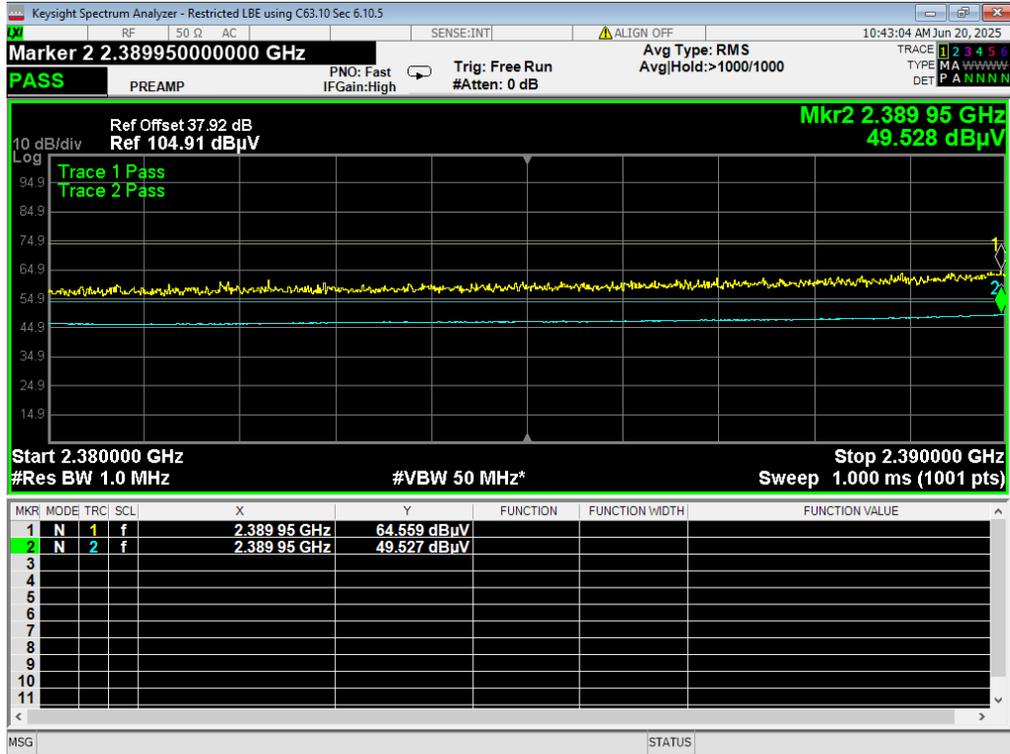
42 6dB BW, WiFi G 54MB, 2462MHz



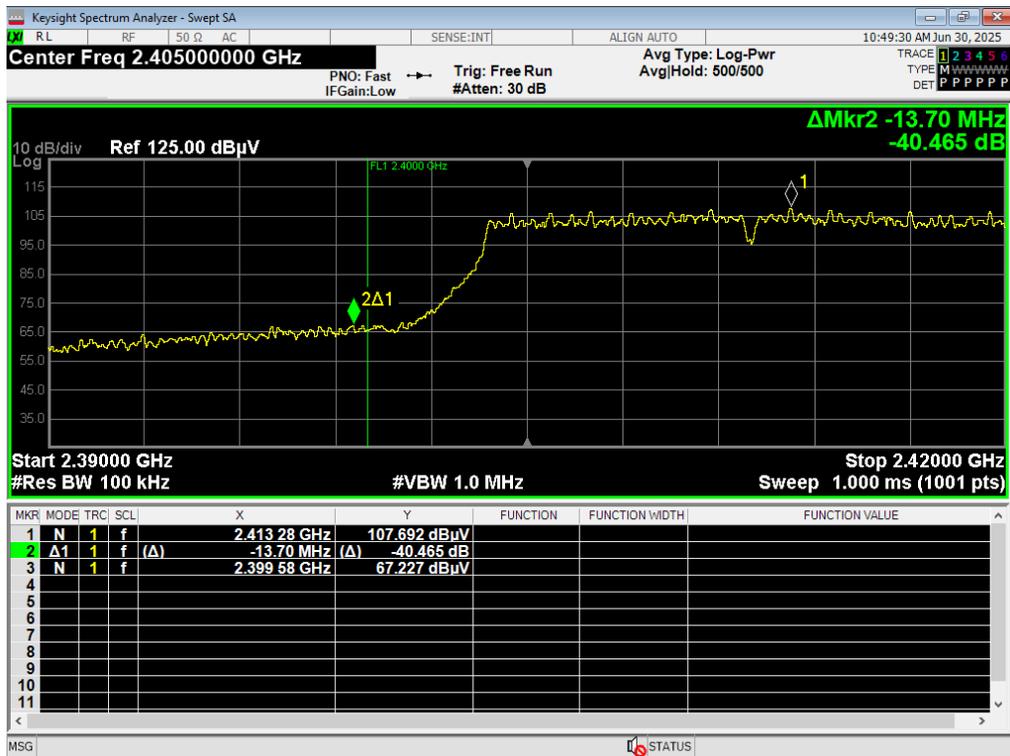
43 HBE Restricted, WiFi G 54MB, ch11, 2462MHz



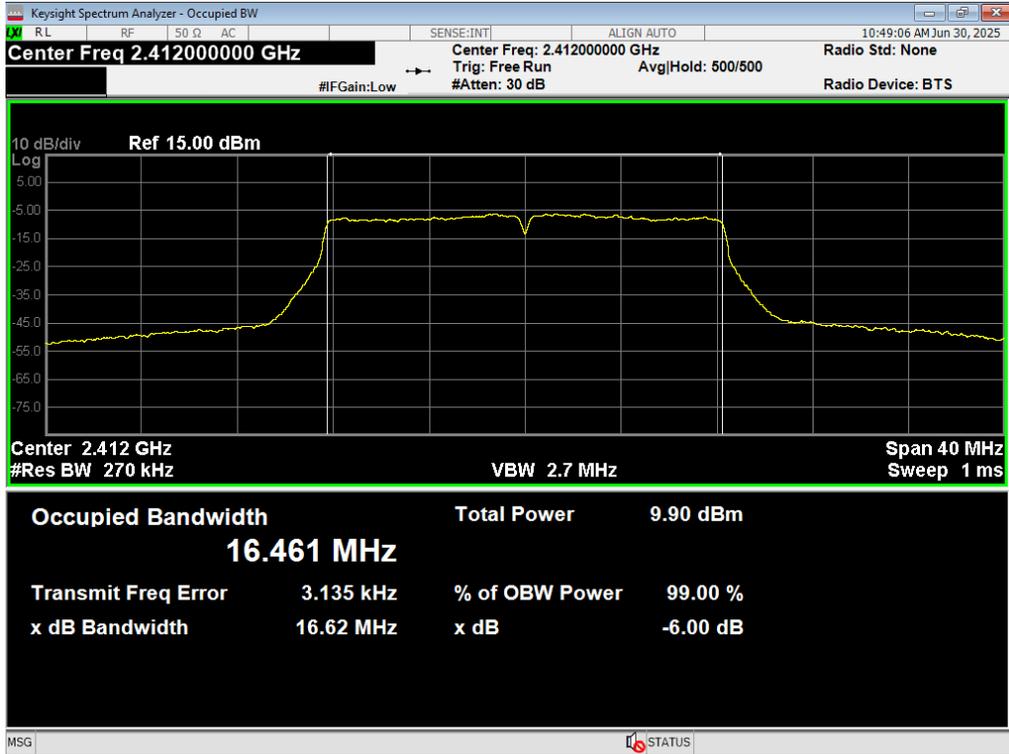
44 HBE Unrestricted, WiFi G 54MB, 2462MHz



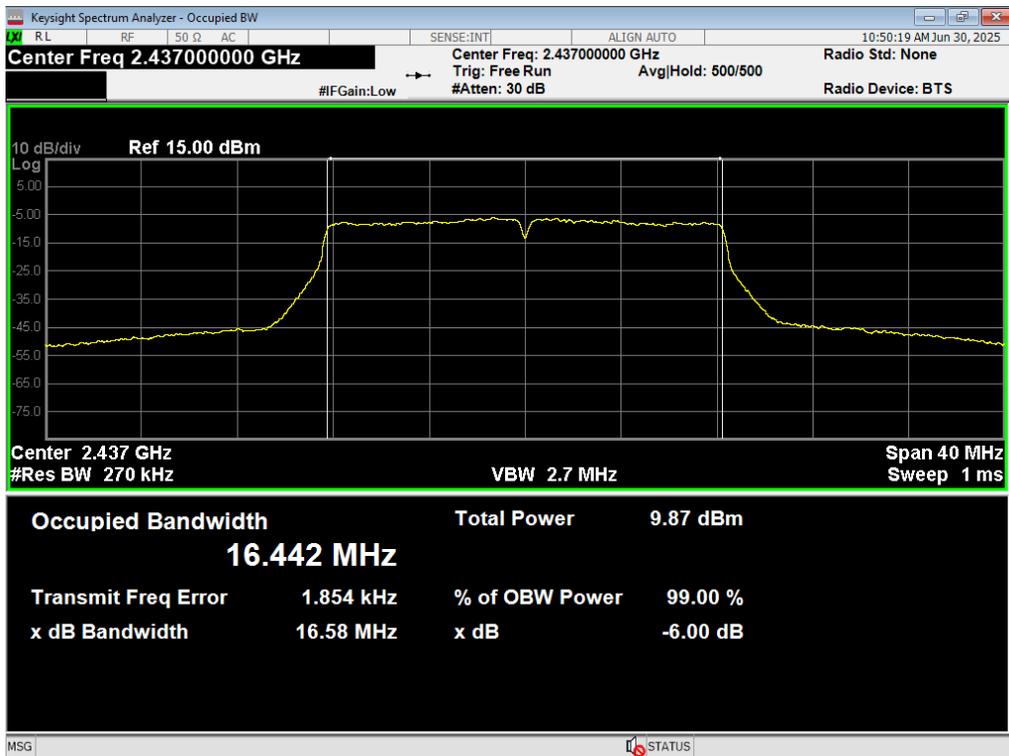
45 LBE Restricted, WiFi G 54MB, ch1 2412MHz



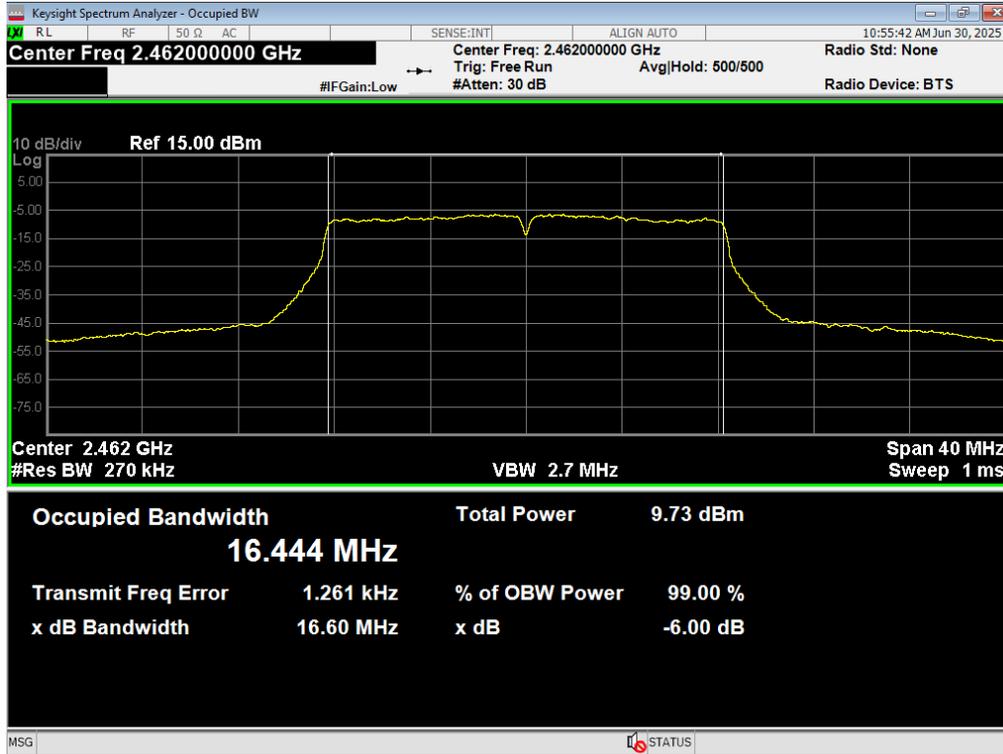
46 LBE Unrestricted, WiFi G 54MB, 2412MHz



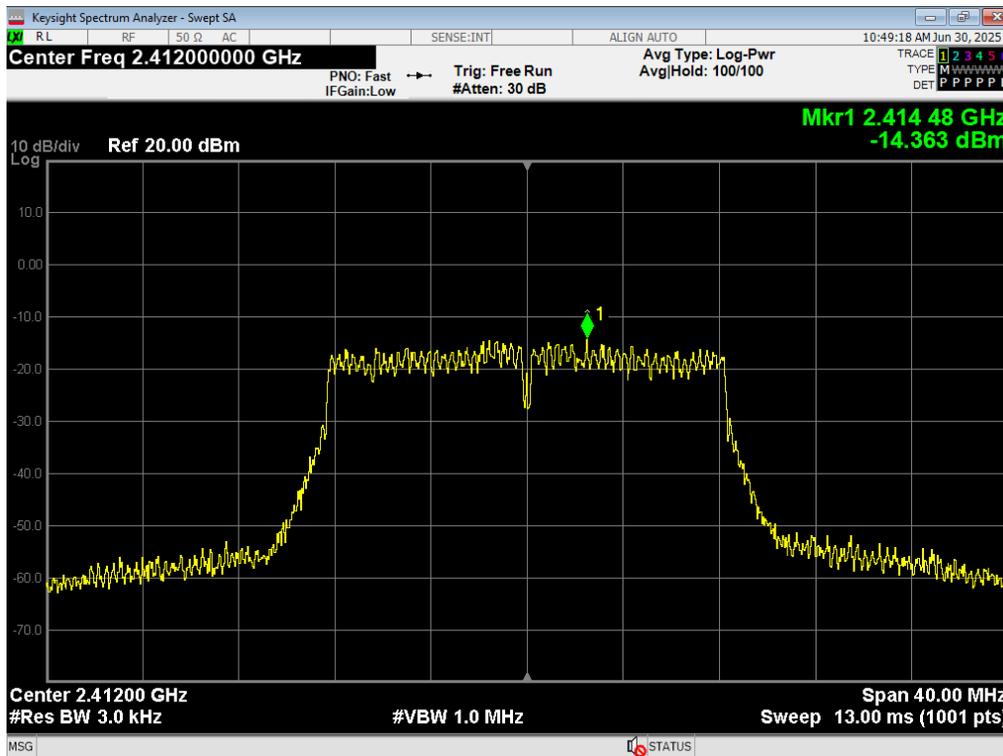
47 Occupied BW, WiFi G 54MB, 2412MHz



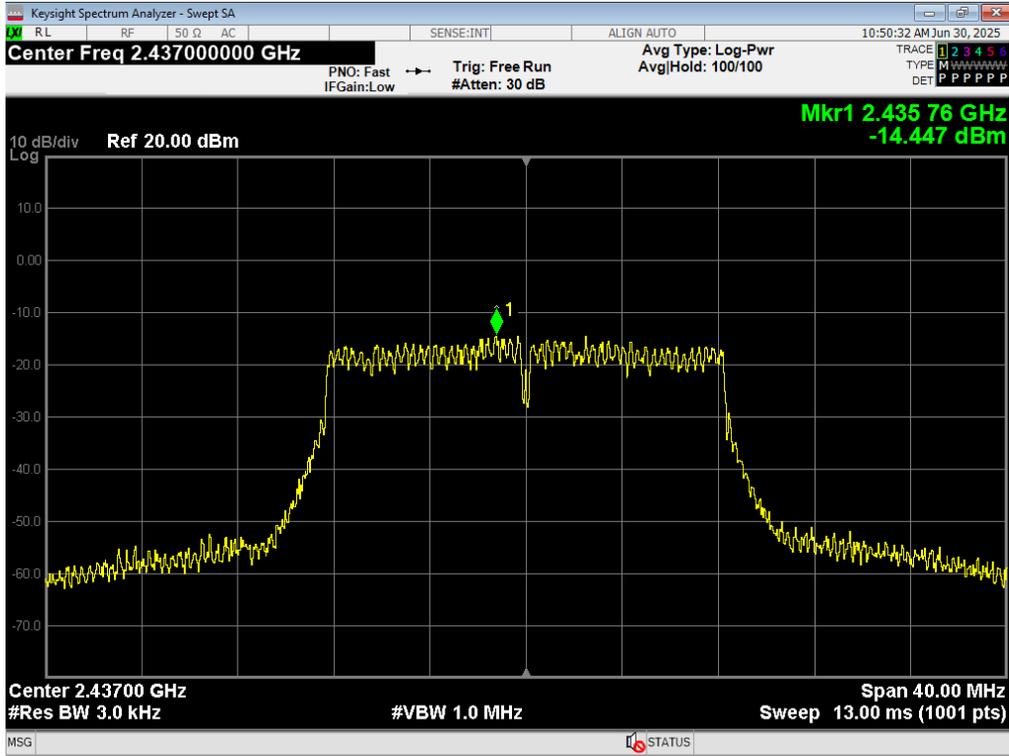
48 Occupied BW, WiFi G 54MB, 2437MHz



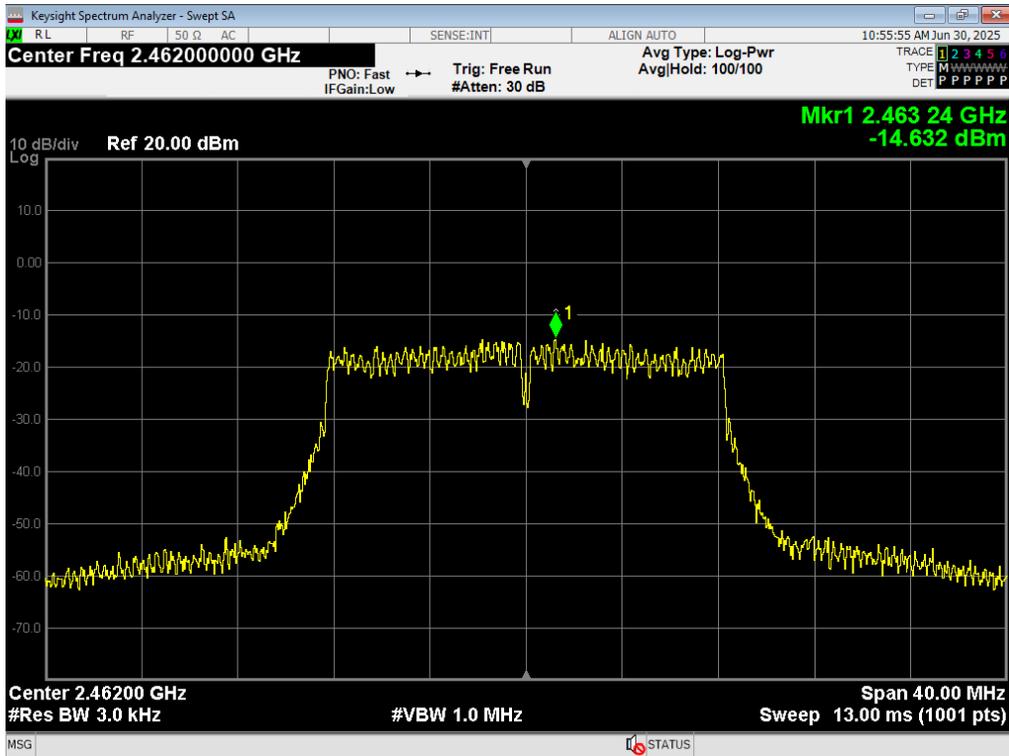
49 Occupied BW, WiFi G 54MB, 2462MHz



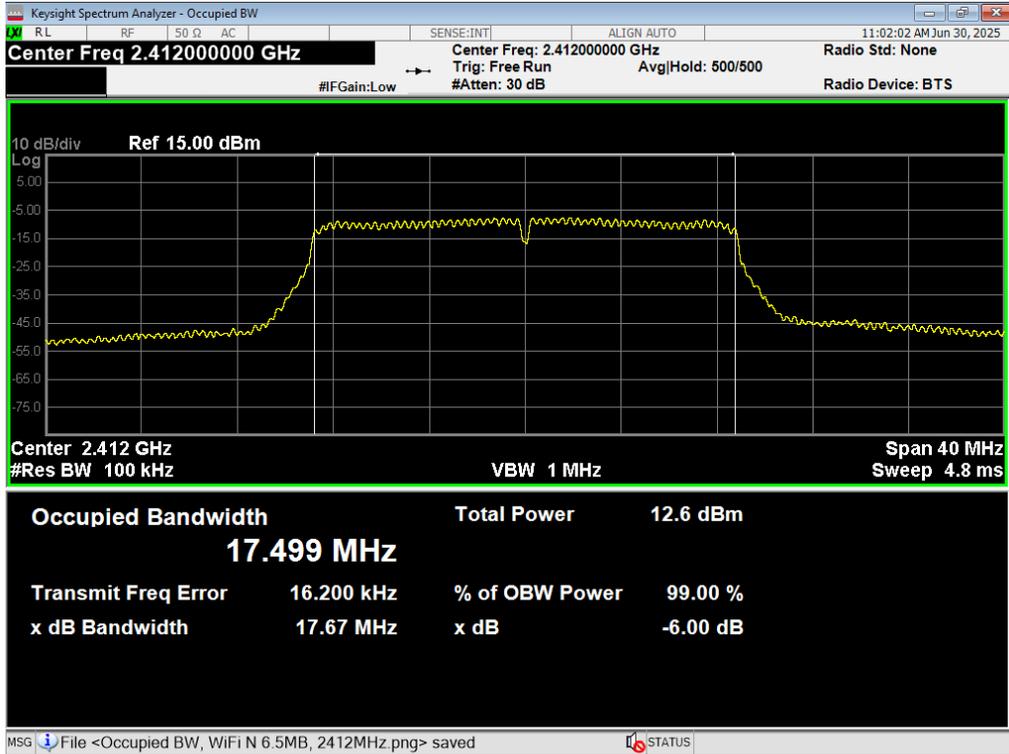
50 PSD, WiFi G 54MB, 2412MHz



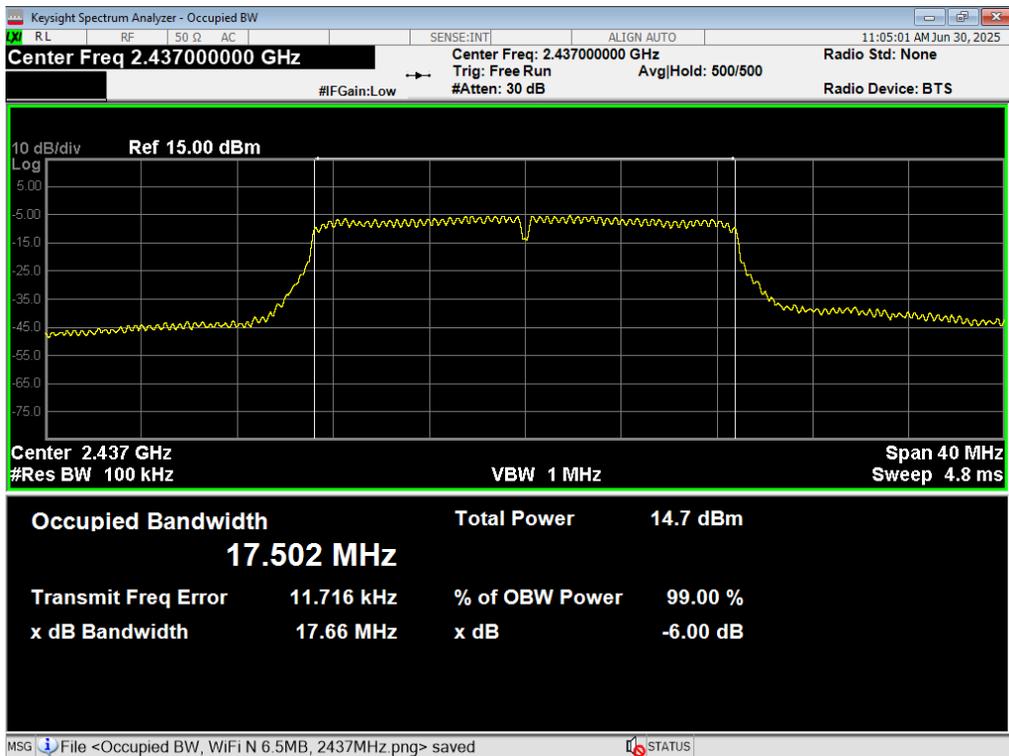
51 PSD, WiFi G 54MB, 2437MHz



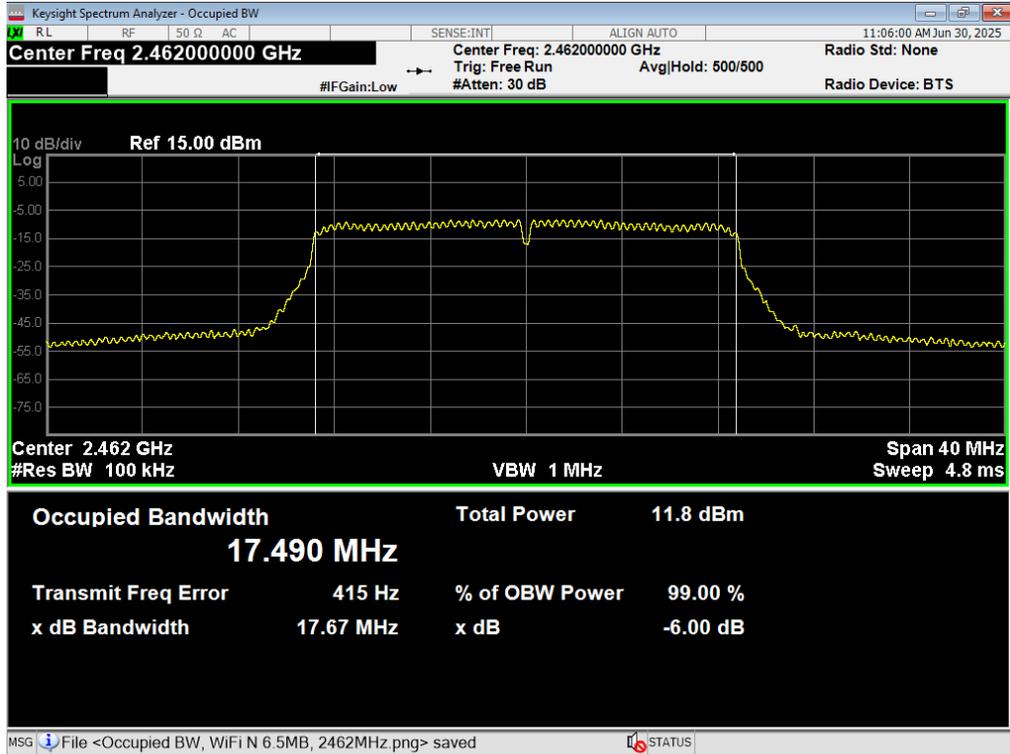
52 PSD, WiFi G 54MB, 2462MHz



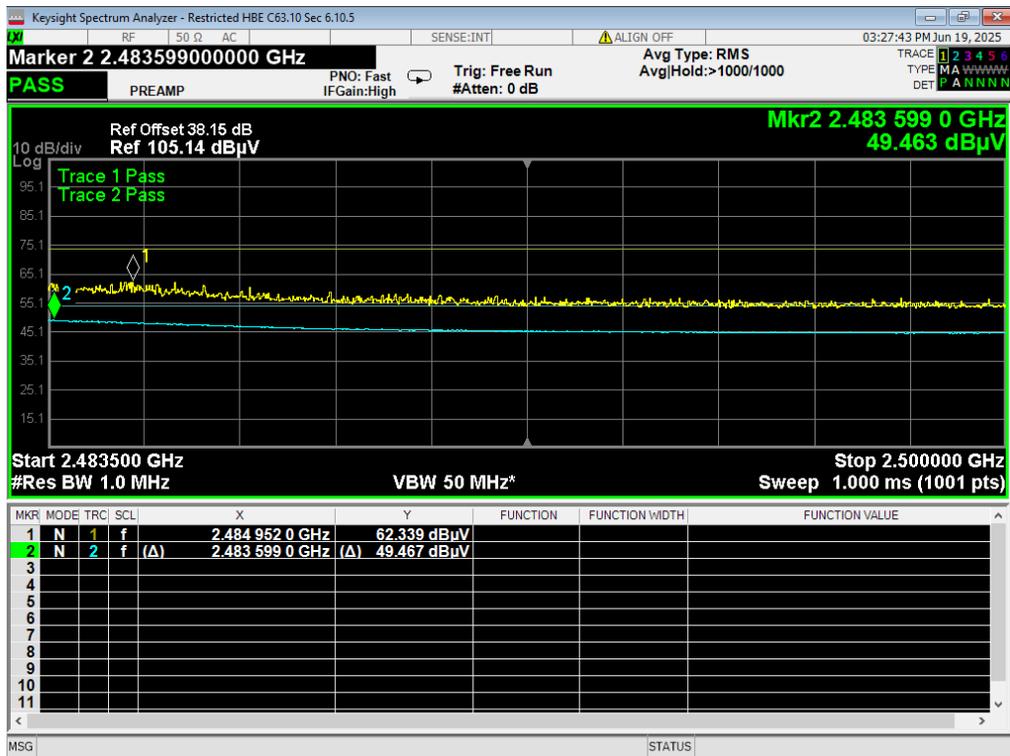
53 6dB BW, WiFi N 6.5MB, 2412MHz



54 6dB BW, WiFi N 6.5MB, 2437MHz



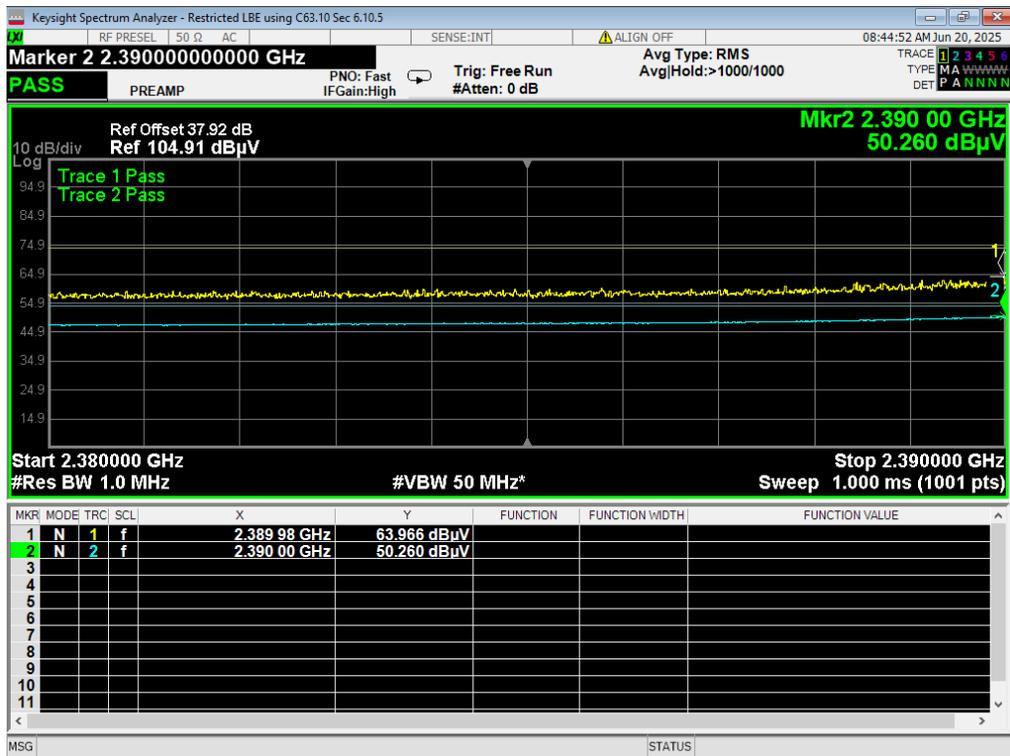
55 6dB BW, WiFi N 6.5MB, 2462MHz



56 HBE Restricted, WiFi N 6.5MB, 2462MHz



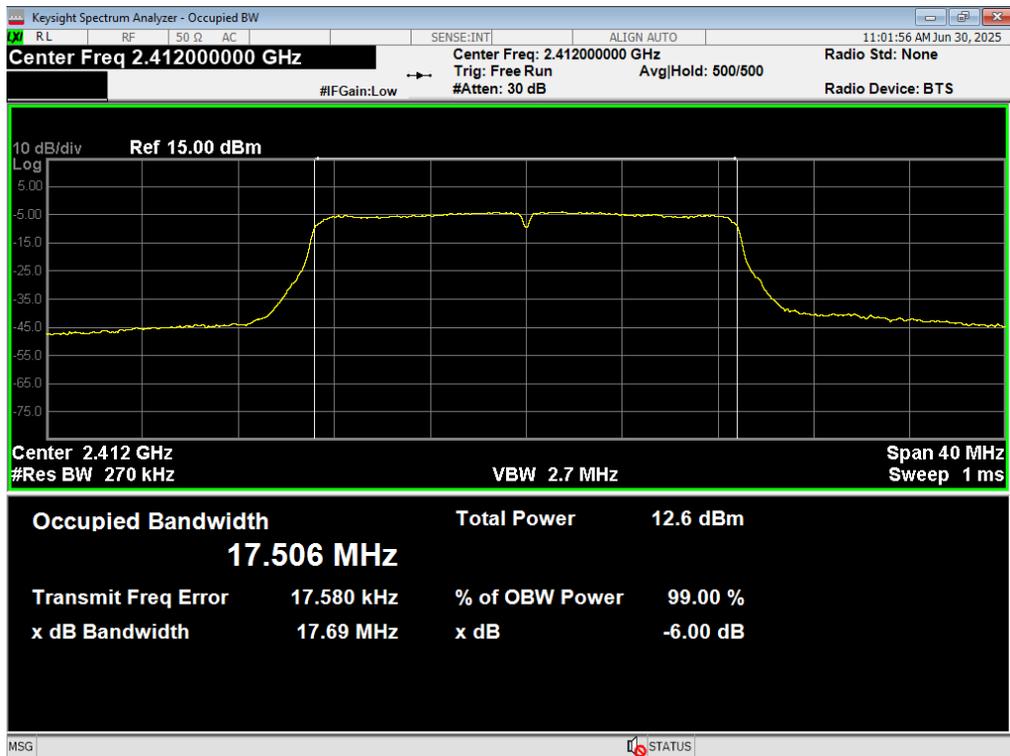
57 HBE Unrestricted, WiFi N 6.5MB, 2462MHz



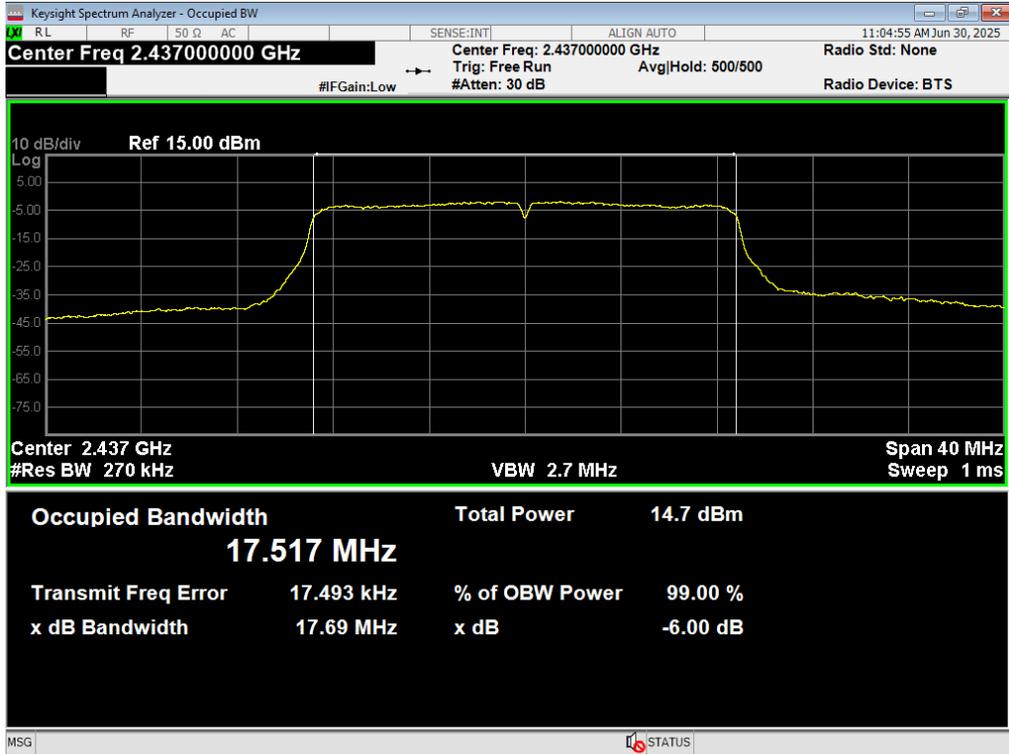
58 LBE Restricted, WiFi N 6.5MB, 2412MHz



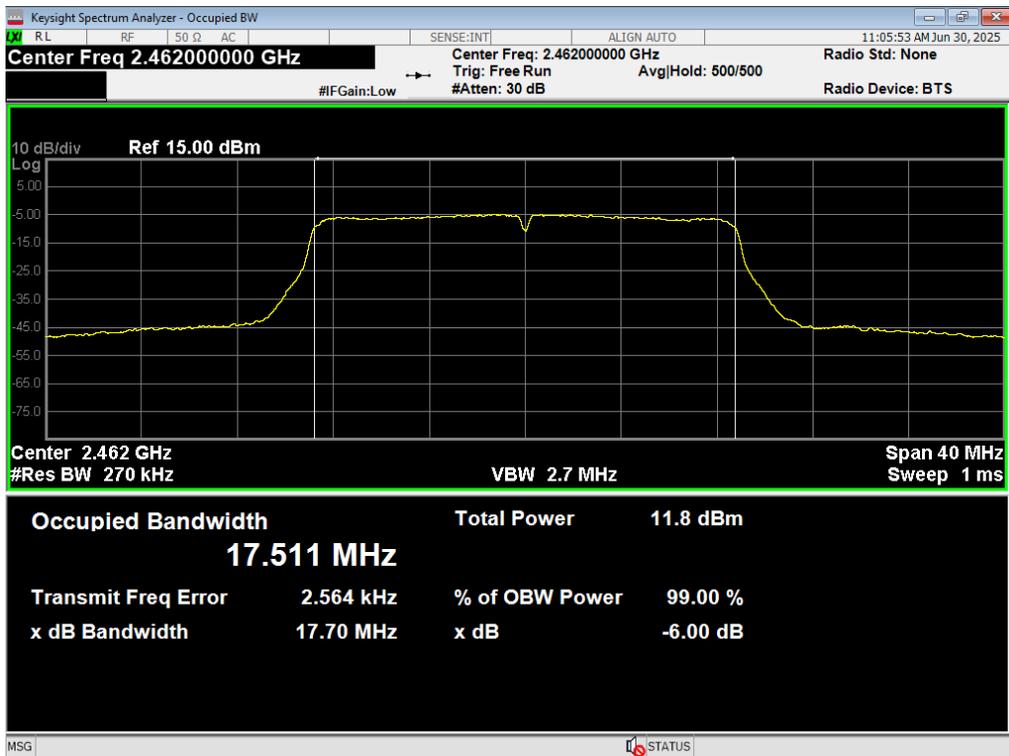
59 LBE Unrestricted, WiFi N 6.5MB, 2412MHz



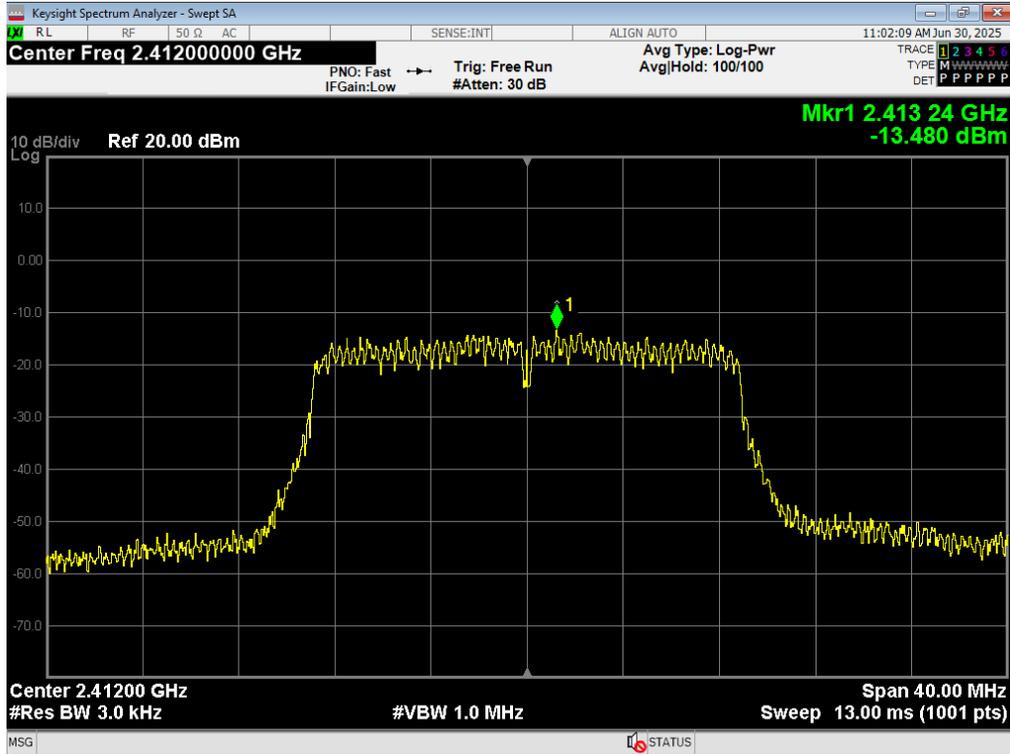
60 Occupied BW, WiFi N 6.5MB, 2412MHz



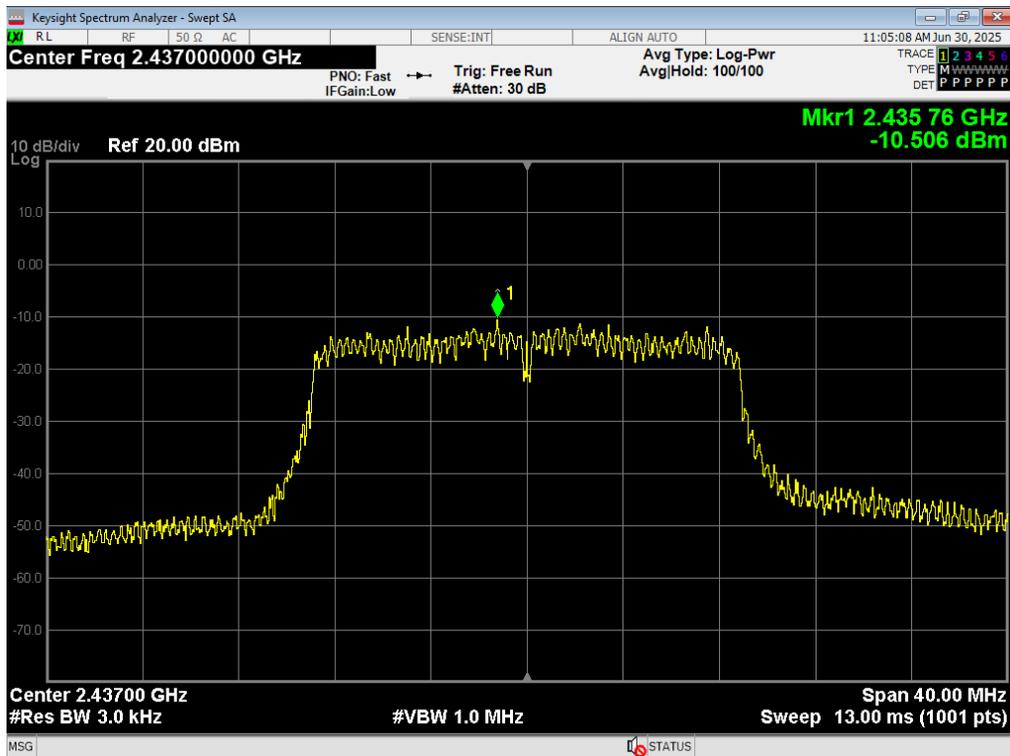
61 Occupied BW, WiFi N 6.5MB, 2437MHz



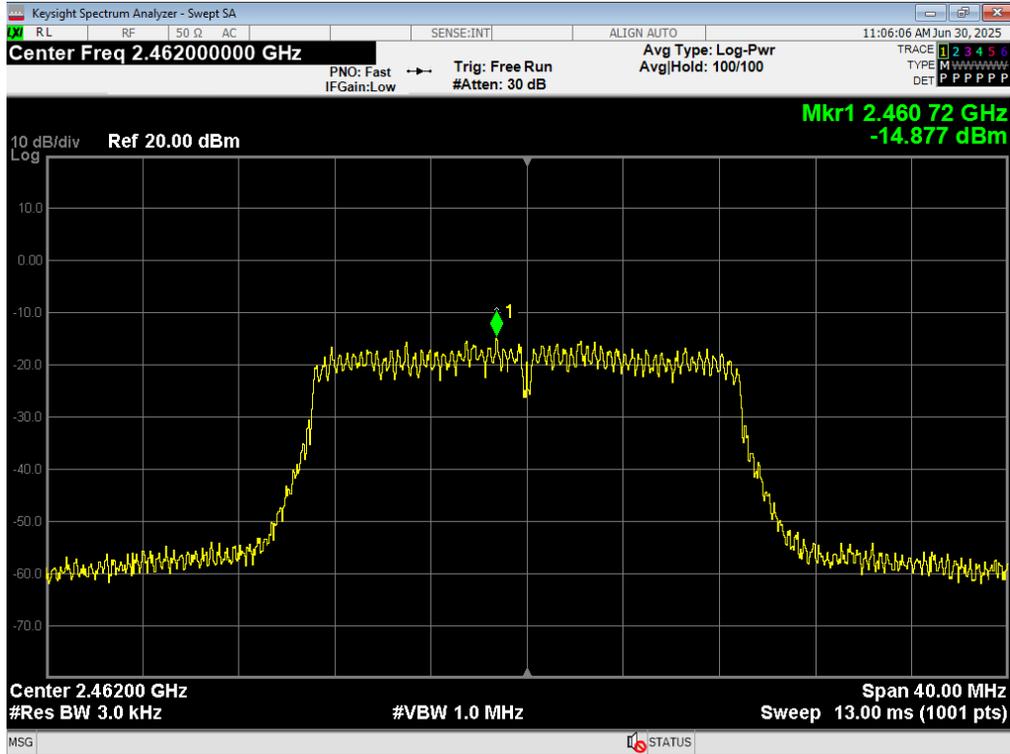
62 Occupied BW, WiFi N 6.5MB, 2462MHz



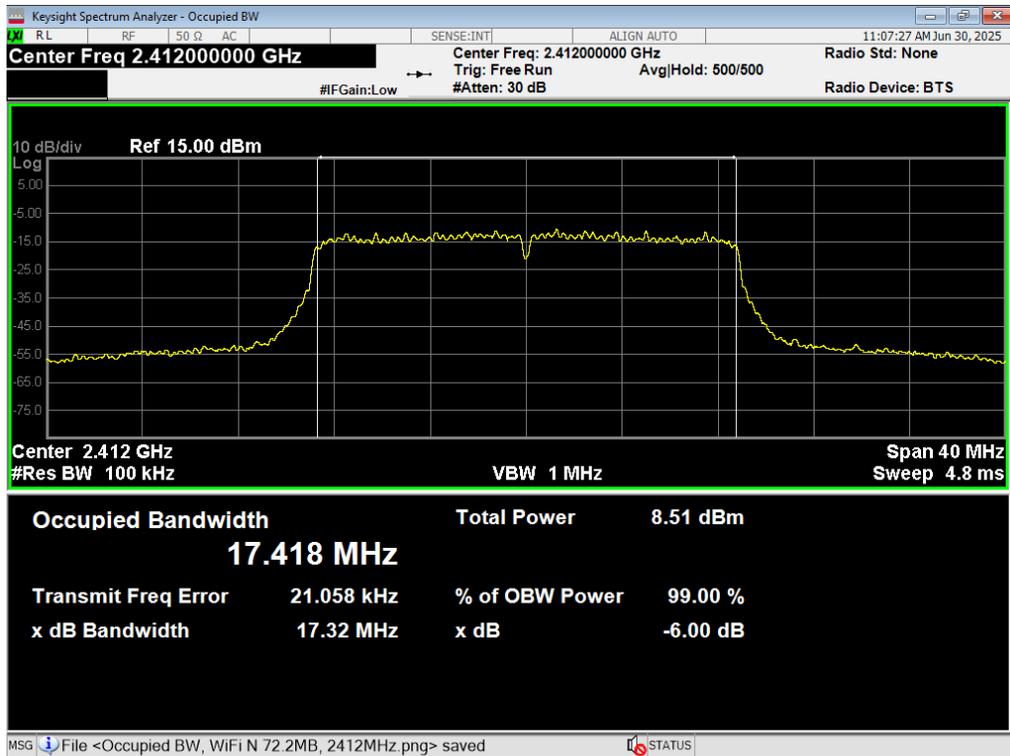
63 PSD, WiFi N 6.5MB, 2412MHz



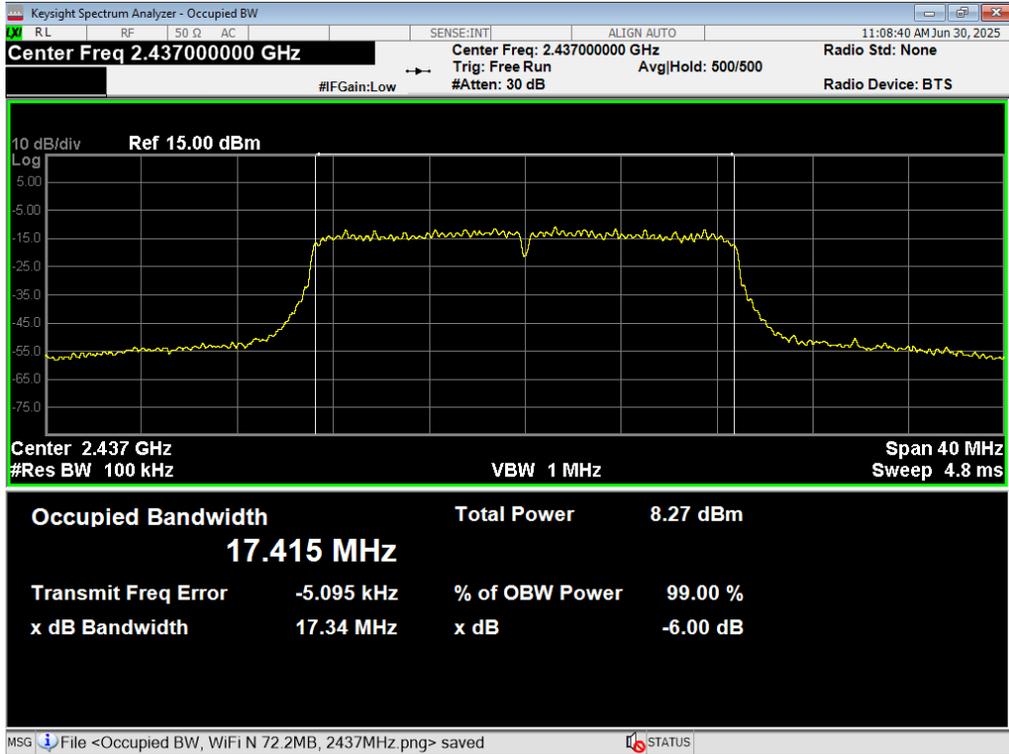
64 PSD, WiFi N 6.5MB, 2437MHz



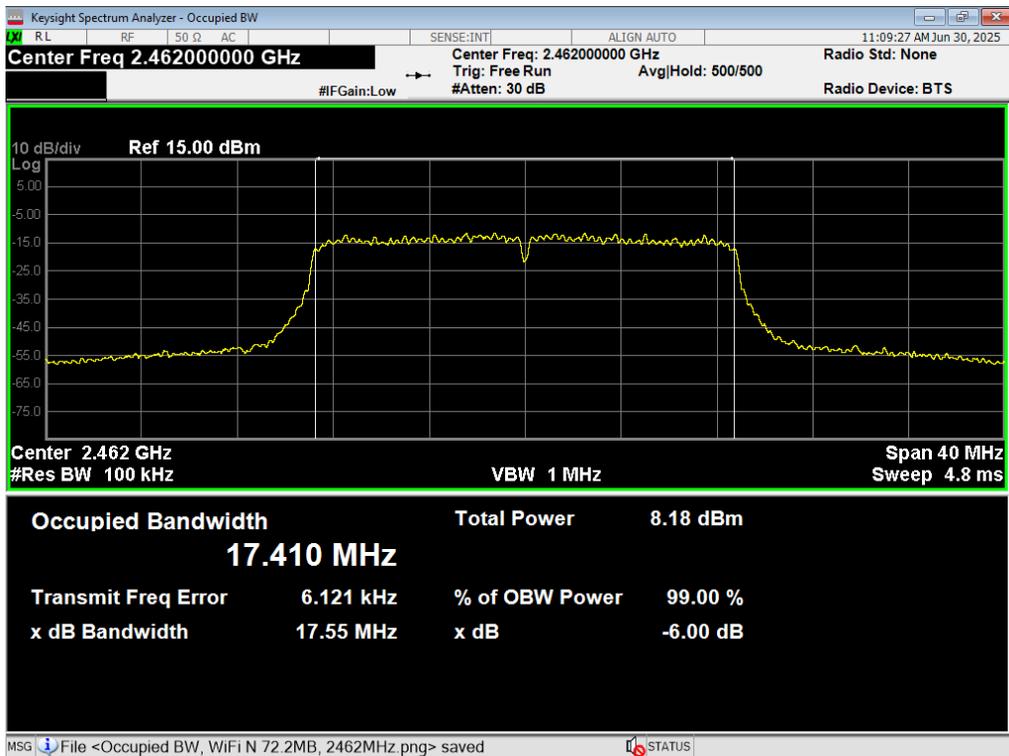
65 PSD, WiFi N 6.5MB, 2462MHz



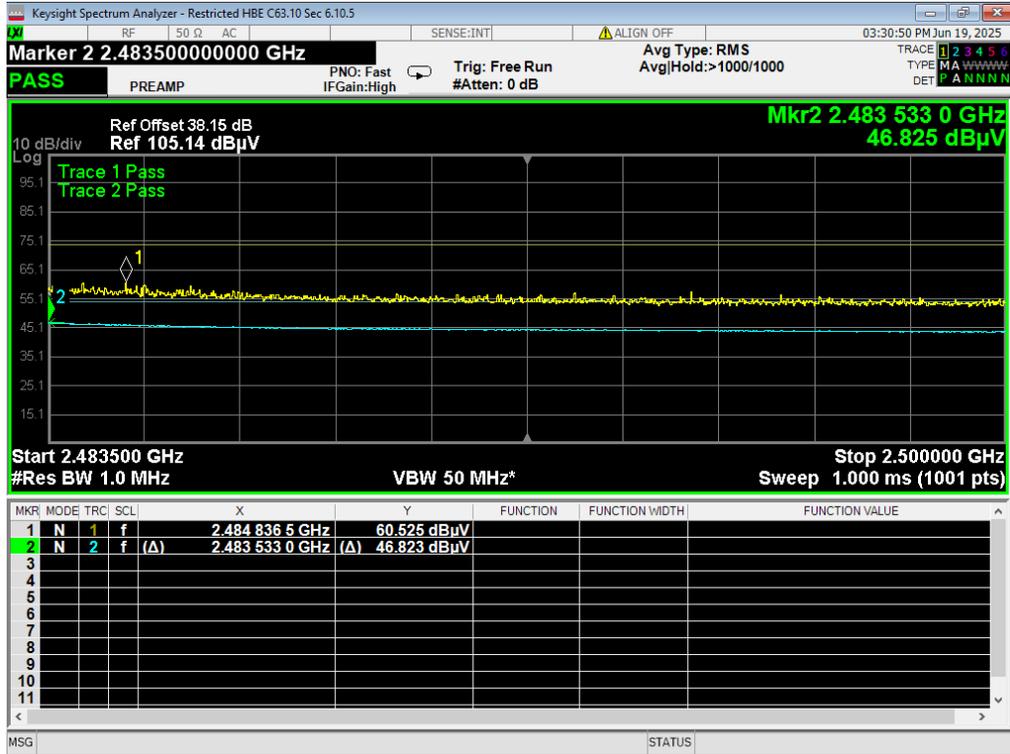
66 6dB BW, WiFi N 72.2MB, 2412MHz



67 6dB BW, WiFi N 72.2MB, 2437MHz



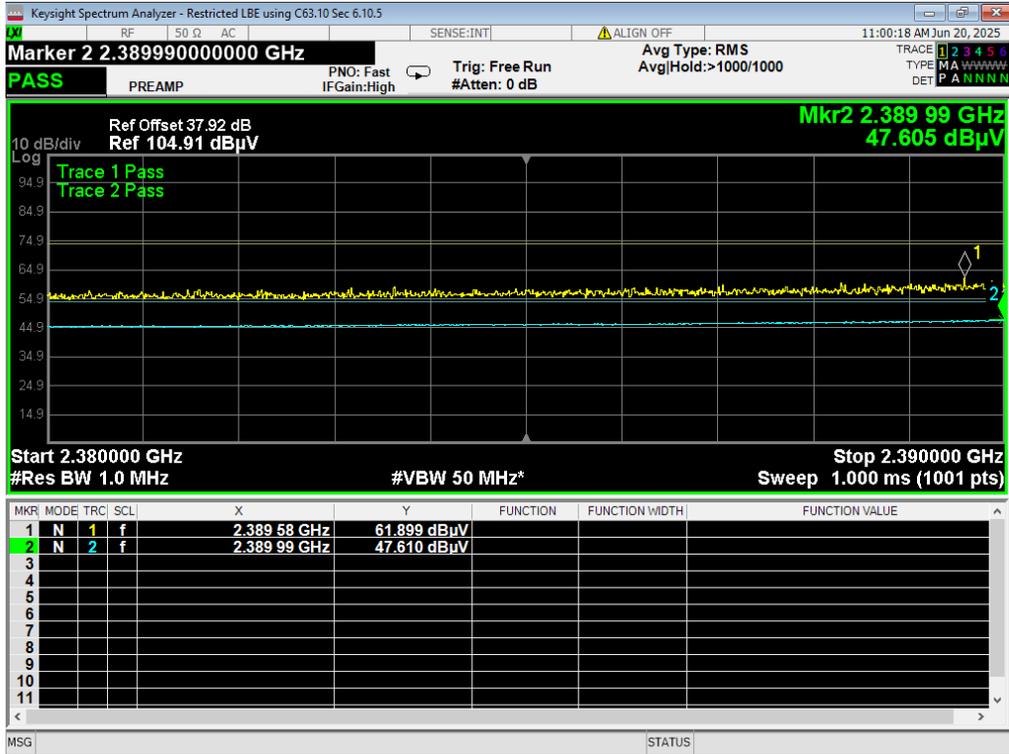
68 6dB BW, WiFi N 72.2MB, 2462MHz



69 HBE Restricted, WiFi N 72.2MB, 2462MHz



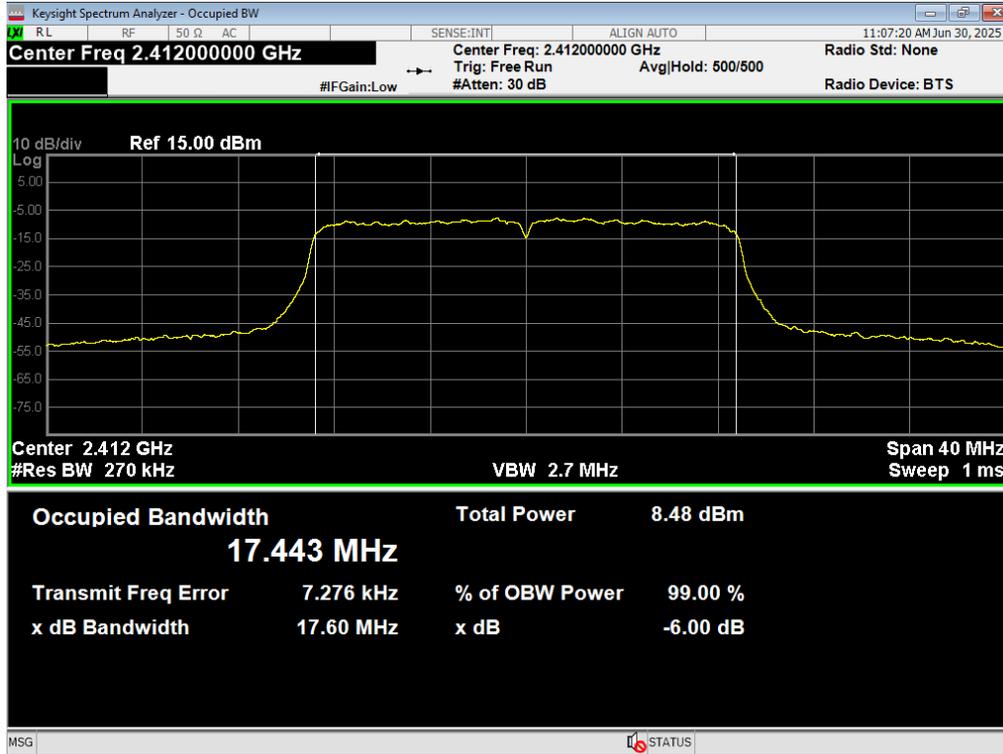
70 HBE Unrestricted, WiFi N 72.2MB, 2462MHz



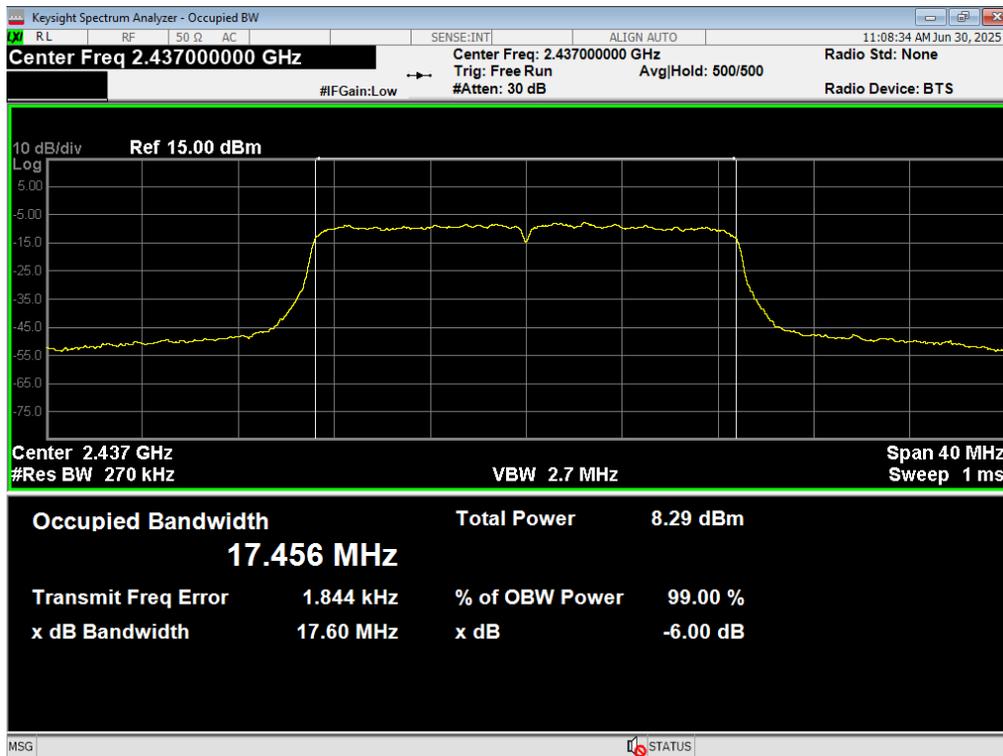
71 LBE Restricted, WiFi N 72.2MB, 2412MHz



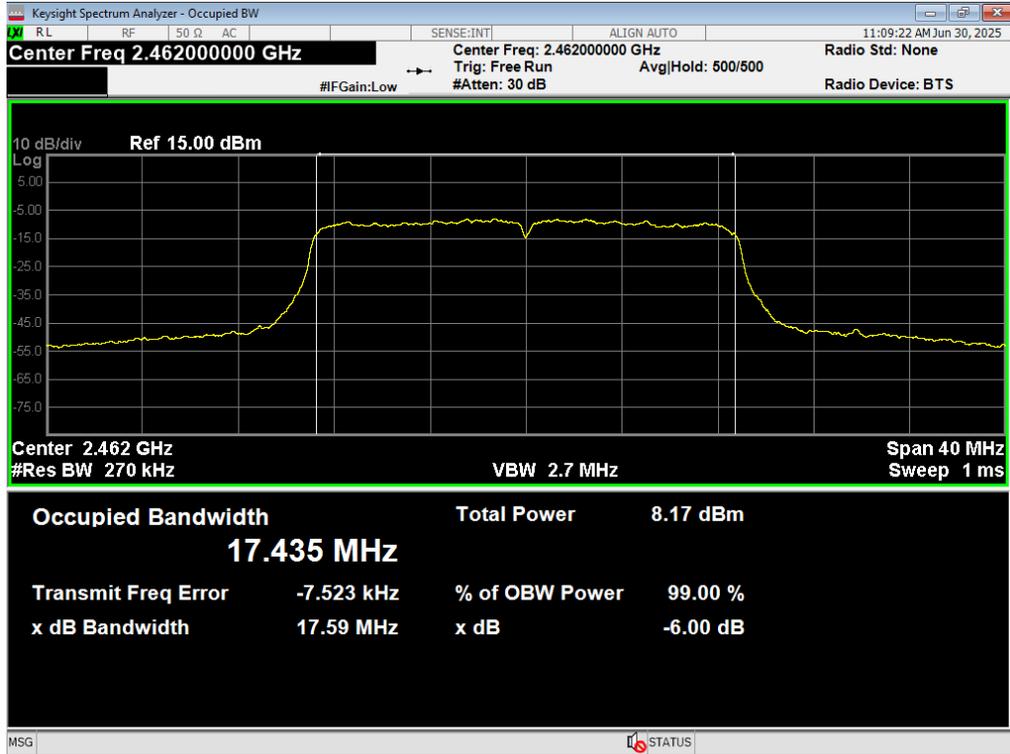
72 LBE Unrestricted, WiFi N 72.2MB, 2412MHz



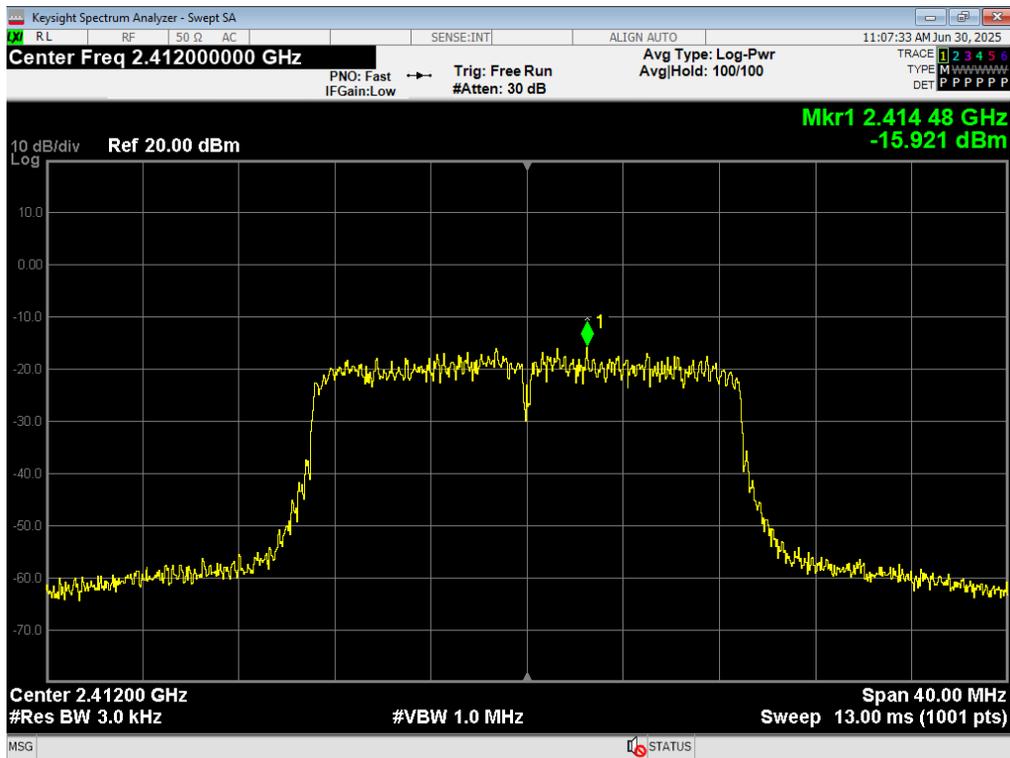
73 Occupied BW, WiFi N 72.2MB, 2412MHz



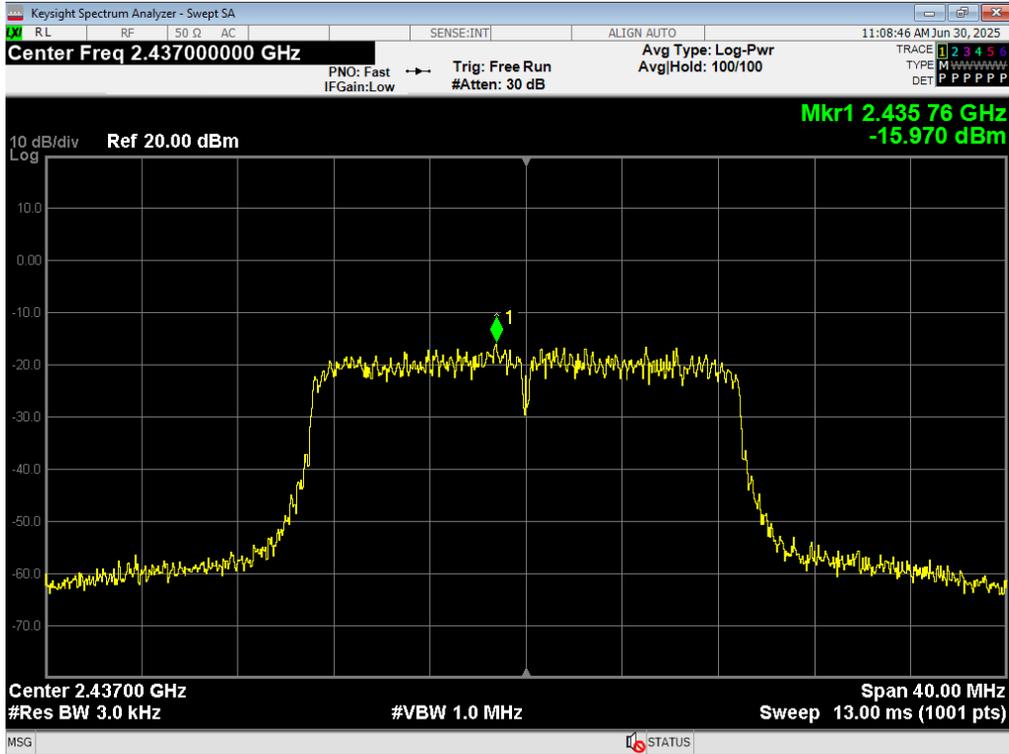
74 Occupied BW, WiFi N 72.2MB, 2437MHz



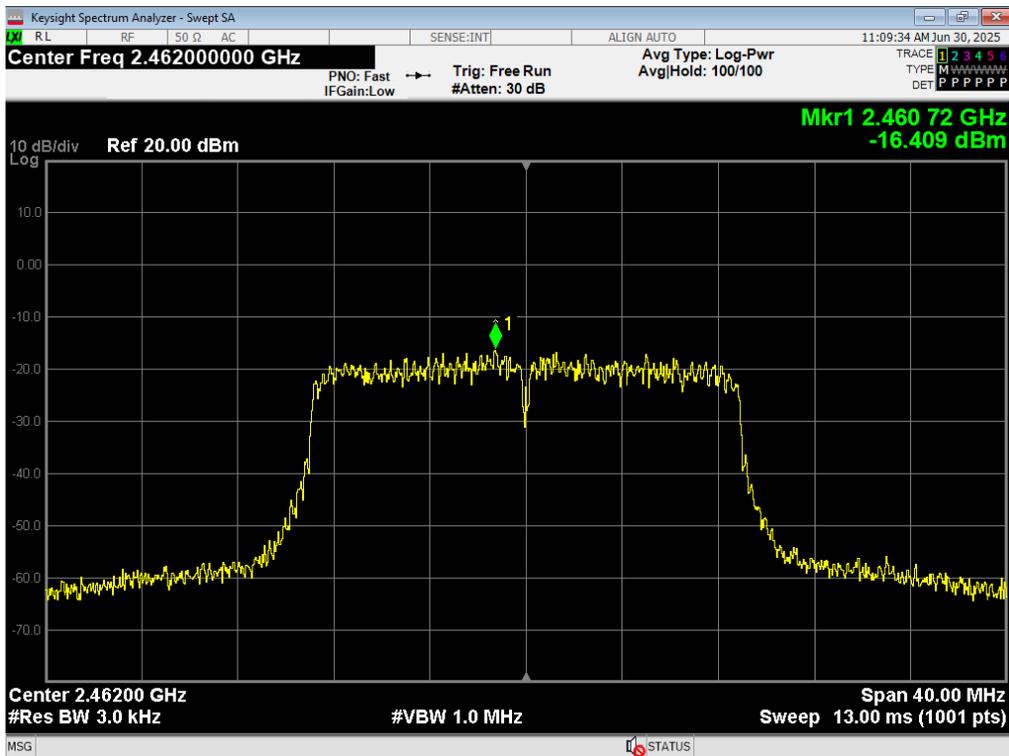
75 Occupied BW, WiFi N 72.2MB, 2462MHz



76 PSD, WiFi N 72.2MB, 2412MHz



77 PSD, WiFi N 72.2MB, 2437MHz



78 PSD, WiFi N 72.2MB, 2462MHz



Report Number:

R20250124-00-E6

Rev

B

Prepared for:

Garmin International, Inc.

REPORT END