

LUMIA HEALTH, INC.

TEST REPORT

SCOPE OF WORK

RADIO TESTING – LUMIA 2 / E20926

REPORT NUMBER

106673041ATL-001

ISSUE DATE

10 September 2026

REVISED DATE

21 September 2026

PAGES

31



DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. January 2025

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RADIO TEST REPORT**Report Number:** 106673041ATL-001**Project Number:** G106673041**Report Revision Date:** 21 September 2026**PMN:** Lumia 2**Model/HVIN:** E20926**FCC ID:** 2BHMV-L20926**IC:** 34184-L20926

Standards: 47 CFR Part 15 Subpart C, 15.247
RSS-247, Issue 4
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
+ Errata to C63.10a-2024
RSS-GEN, Issue 6

Test Location

Intertek
1950 Evergreen Blvd., Suite 100
Duluth, GA 30096 USA
FCC Designation: US1046
CAB Designator: US0128

Client

Lumia Health, Inc.
119 Braintree Street, Suite 601
Allston, MA 02134 USA

Report prepared by



Jeremy Pickens / Senior Staff Engineer

Report reviewed by



Uri Spector / Sr. EMC Staff Engineer

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1 Introduction and Conclusion

The tests indicated in Section 2 were performed on the product constructed as described in Section 4. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

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

2 Test Summary

Section	Test Description	Test Specification		Result
		FCC	ISED	
5	Occupied and DTS Bandwidth	15.247(a)(2)	RSS-247 S5.2(a) RSS-GEN S6.7	Compliant
6	Peak Output Power	15.247(b)(3)	RSS-247 S5.4(d)	Compliant
7	Power Spectral Density	15.247(e)	RSS-247 S5.2(b)	Compliant
8	Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 S5.5	Compliant
9	Emissions in Restricted Frequency Bands	15.247(d) 15.205(a), 15.209(a)	RSS-GEN S8.9-8.10	Compliant
--	AC Mains Conducted Emissions	15.207	RSS-GEN S8.8	NA ¹
NA	Antenna Requirement	15.203	RSS-GEN S6.8	Compliant ²

1) The device was battery-operated with no facility for connection to the AC mains.

2) The antenna is internal and not removable.

3 Client Information

This evaluation was performed at the request of:

Client: Lumia Health, Inc.
119 Braintree Street, Suite 601
Allston, MA 02134 USA

Contact: Paul Jin

Email: paul@lumiahealth.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Lumia Health, Inc.
119 Braintree Street, Suite 601
Allston, MA 02134 USA

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Biometric Earpiece	Lumia Health, Inc.	E20926	L22632FJ9DKR ¹

1) Used for radiated measurements. The conducted sample was not labeled with a serial number.

Receive Date:	12 August 2026
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)

The device under consideration is a wearable earpiece designed for intermittent wireless communication with a user's smartphone. It employs a Bluetooth 6.0 chip (nRF54LM20A) from Nordic (FRN:0026827089) for data transmission. The earpiece sends biometric data to a user's smartphone intermittently as it is collected. The earpiece has a swappable battery pack architecture and comes with two battery packs and a USB-C powered battery pack charger.

Radio/Receiver Characteristics	
Frequency Range / Number of Channels	2402 -2480MHz, 40 Channels
Data Rate / Modulation Type(s)	1Mbps - GFSK
Channel Separation:	2MHz
Maximum Conducted Output Power:	4.21dBm (2.636mW)
Equipment Type	Portable – < 5mm Separation Distance
Antenna Type and Gain	PCB Antenna – -15.8dBi Gain <i>Note: (Provided by the applicant - Intertek takes no responsibility for the accuracy of this information.)</i>

Software

No.	Description of control Software
1	App Version: 1.21.0 (Controlling radiated sample)
2	eur.03.00.41.cw (Special firmware for conducted sample)

4.1 Justification

For antenna conducted port measurements, the DUT antenna was disconnected and fitted with an SMA adapter pigtail. The DUT was powered via 4.1Vdc provided by an external AC/DC supply. The sample was configured with special firmware which toggled the channel from low to mid to high with each power cycle. The coaxial path loss between the DUT and the measurement equipment was verified and accounted for during final measurements.

For radiated emission measurements the DUT was placed on a non-conductive platform (80cm or 1.5meters depending on the frequency range). An iPhone was used to control the BLE radio using over the air commands from a test tool. The DUT was tested at low, mid, and high channels.

Software Setting for Power: 8dBm (100% Duty Cycle)

4.2 Modifications Required for Compliance

No modifications were made during compliance testing in order to bring the product into compliance.

4.3 Additions, Deviations and Exclusions from Standards

No additions, deviations or exclusion have been made from standard.

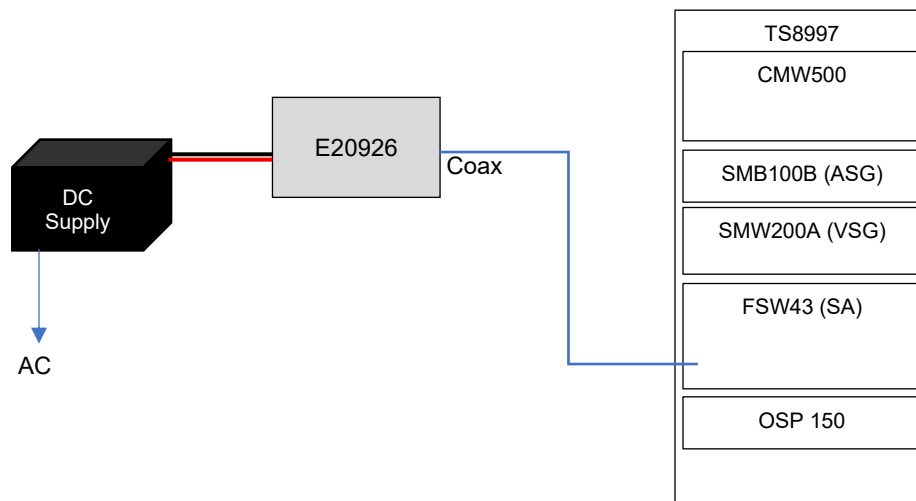
4.4 Method

Configuration as required by ANSI C63.10.

4.5 EUT Block Diagram – Radiated Measurements



4.6 EUT Block Diagram – Conducted Measurements



5 Bandwidth

5.1 Method

The procedures from ANSI C63.10 clause 11.8 and 558074 D01 DTS Meas Guidance v05r2 were used to determine the 6 dB bandwidth.

The procedures from ANSI C63.10 clause 6.9.3 were used to measure the 99% Occupied Bandwidth.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

5.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212164	Temperature/Pressure/Humidity Sensor	Extech	SD700	109402	07/14/2026	07/14/2027
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	05/08/2025	05/08/2027
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/05/2026	08/05/2027
213503-01	Megaphase	OSP DUT Cable 1	KC12-K1K1-80	20815001 001	VBU	VBU

Software Utilized

Name	Manufacturer	Version
RSCCommander	Rohde & Schwarz	2.4.2

5.3 Test Data

Frequency (MHz)	Data Rate	6dB Bandwidth (kHz)	Limit (kHz)	Result
2402.0	1Mbps	779	>500	Compliant
2440.0	1Mbps	784	>500	Compliant
2480.0	1Mbps	779	>500	Compliant

Frequency (MHz)	Data Rate	99% OBW (MHz)	Limit (kHz)	Result
2402.0	1Mbps	1.080	NA	Reported
2440.0	1Mbps	1.072	NA	Reported
2480.0	1Mbps	1.075	NA	Reported

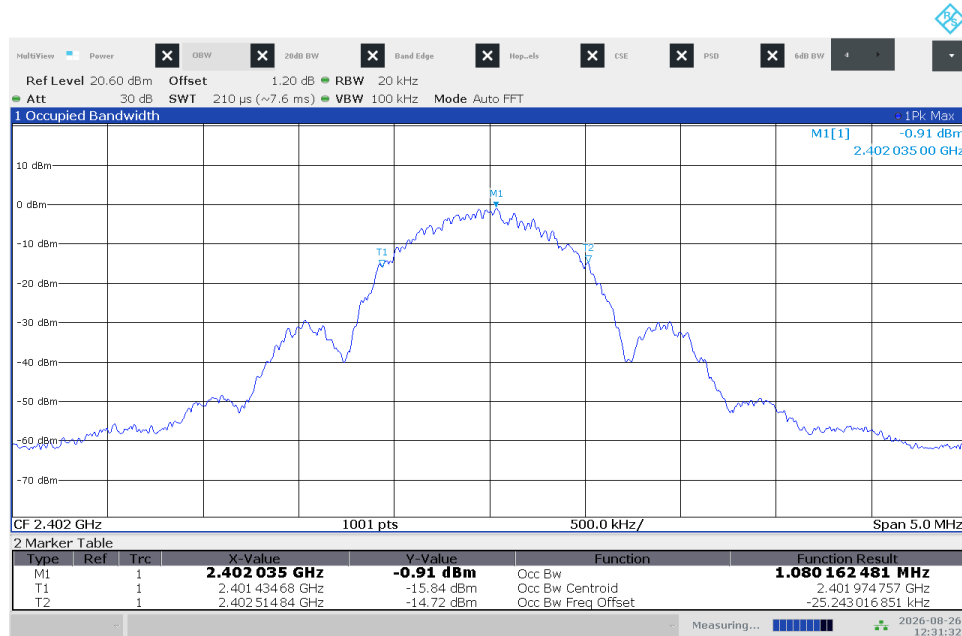
Frequency (MHz)	Data Rate	20dB Bandwidth (MHz)	BE Left (MHz)	BE Right (MHz)	Result
2402.0	1Mbps	1.189	2401.391	2402.579	Compliant
2440.0	1Mbps	1.184	2439.376	2440.559	Compliant
2480.0	1Mbps	1.189	2479.391	2480.579	Compliant

Worst-Case Screenshot (1Mbps 6dB BW)



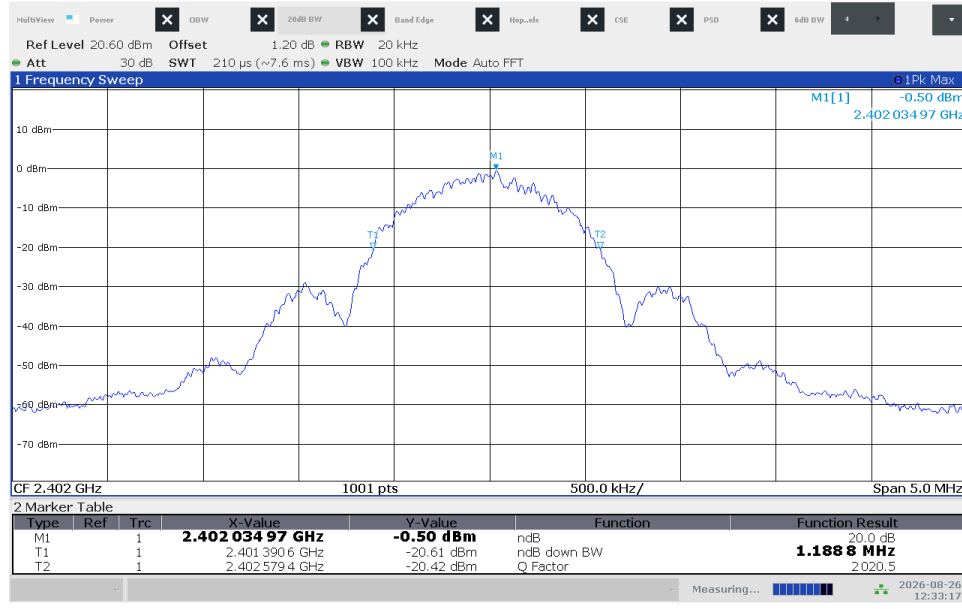
12:43:39 PM 08/26/2026

Worst-Case Screenshot (1Mbps OBW)



12:31:32 PM 08/26/2026

Worst-Case Screenshot (1Mbps 20dB BW)



12:33:17 PM 08/26/2026

Test Personnel: Jeremy Pickens
 Supervising/Reviewing Engineer:
 (Where Applicable)
 Product Standard: ANSI C63.10
 Input Voltage: 4.1Vdc

Test Date: 26 August 2026
 Ambient Temperature: 21.9°C
 Relative Humidity: 43.4%
 Atmospheric Pressure: 98.5kPa

6 Peak Output Power

6.1 Method

The procedures from KDB 558074 D01 DTS Meas Guidance v05r2 and ANSI C63.10 Clause 11.9.1.1 were used to measure the peak output power.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

6.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212164	Temperature/Pressure/Humidity Sensor	Extech	SD700	109402	07/14/2026	07/14/2027
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	05/08/2025	05/08/2027
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/05/2026	08/05/2027
213503-01	Megaphase	OSP DUT Cable 1	KC12-K1K1-80	20815001 001	VBV	VBV

Software Utilized

Name	Manufacturer	Version
RSCCommander	Rohde & Schwarz	2.4.2

6.3 Results

The sample tested was found to Comply.

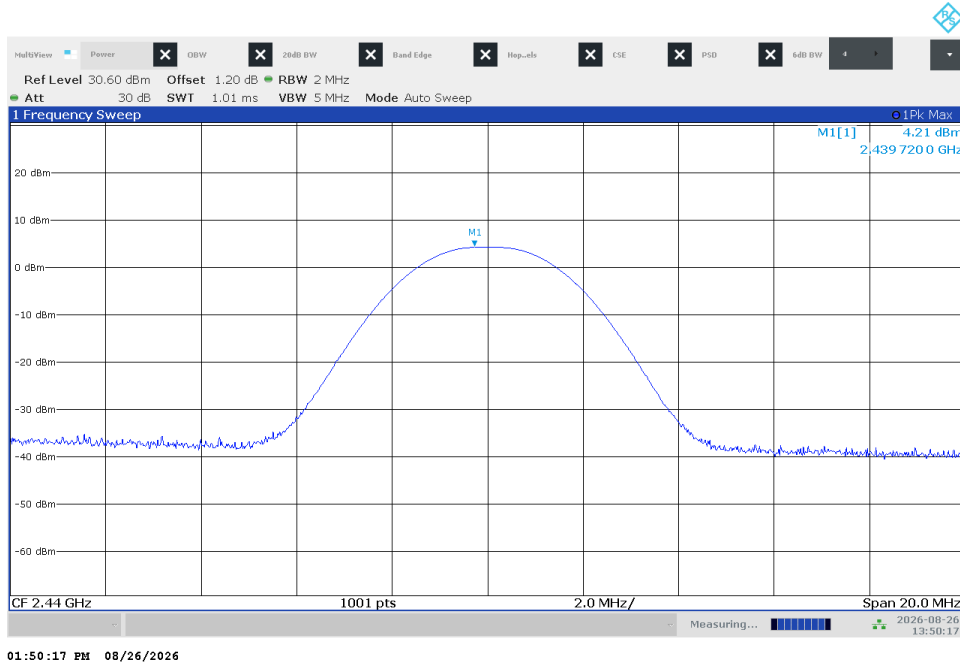
6.4 Test Data

Frequency (MHz)	Data Rate	Peak Power (dBm)	Limit (dBm)	Result
2402.0	1Mbps	4.14	30	Pass
2440.0	1Mbps	4.21	30	Pass
2480.0	1Mbps	3.89	30	Pass

Frequency (MHz)	Data Rate	Conducted Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	IC EIRP Limit (dBm)	Result
2402.0	1Mbps	4.14	-15.8	-11.66	34	Pass
2440.0	1Mbps	4.21	-15.8	-11.59	34	Pass
2480.0	1Mbps	3.89	-15.8	-11.91	34	Pass

$$\text{EIRP} = \text{Peak Power} + \text{Antenna Gain}$$

Worst-Case Screenshot (1Mbps)



Test Personnel: Jeremy Pickens
 Supervising/Reviewing Engineer:
 (Where Applicable)
 Product Standard: ANSI C63.10
 Input Voltage: 4.1Vdc

Test Date: 26 August 2026

Ambient Temperature: 21.2°C
 Relative Humidity: 40.5%
 Atmospheric Pressure: 98.2kPa

7 Peak Power Spectral Density

7.1 Method

The procedures from KDB 558074 D01 DTS Meas Guidance v05r2 and ANSI C63.10 Clause 11.10.2 were used to measure the peak PSD.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

7.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212164	Temperature/Pressure/Humidity Sensor	Extech	SD700	109402	07/14/2026	07/14/2027
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	05/08/2025	05/08/2027
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/05/2026	08/05/2027
213503-01	Megaphase	OSP DUT Cable 1	KC12-K1K1-80	20815001 001	VBV	VBV

Software Utilized

Name	Manufacturer	Version
RSCCommander	Rohde & Schwarz	2.4.2

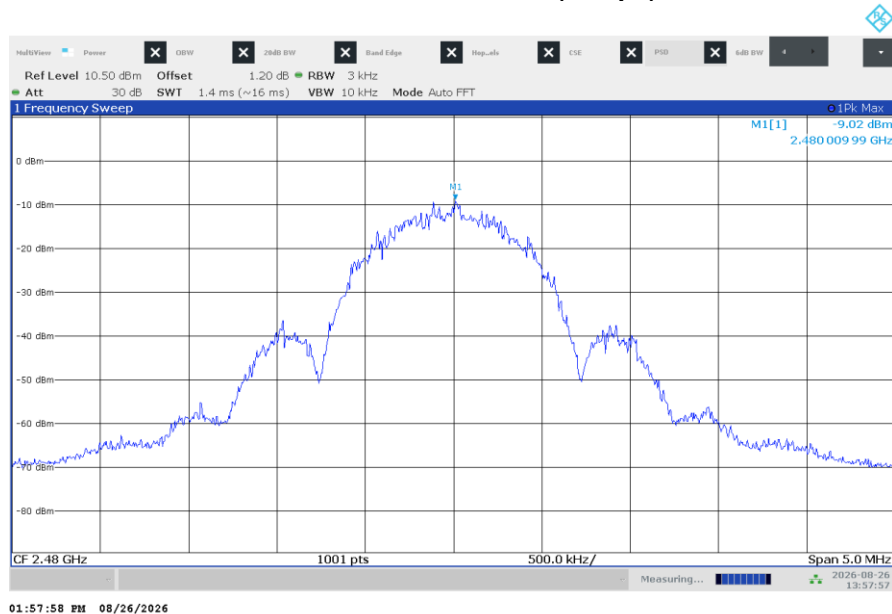
7.3 Results

The sample tested was found to Comply.

7.4 Test Data

Frequency (MHz)	Data Rate	Peak PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402.0	1Mbps	-10.17	8	Pass
2440.0	1Mbps	-10.22	8	Pass
2480.0	1Mbps	-9.02	8	Pass

Worst-Case Screenshot (1Mbps)



Test Personnel: Jeremy Pickens 
Supervising/Reviewing
Engineer:
(Where Applicable) _____
Product Standard: ANSI C63.10
Input Voltage: 4.1Vdc

Test Date: 26 August 2026

Ambient Temperature: 21.9°C

Relative Humidity: 43.4%

Atmospheric Pressure: 98.5kPa

8 Conducted Spurious Emissions / Band Edge

8.1 Method

The procedures from KDB 558074 D01 DTS Meas Guidance v05r2 and ANSI C63.10 Clause 11.11 were used to measure the conducted spurious emissions and allocated band edges.

The limit is 20 dB below the measured peak power in any 100kHz band.

TEST SITE: RF Bench

The RF bench consists of a Rohde & Schwarz TS8997 automated test system coupled with a temperature/humidity environmental chamber. Measurements are automated using the Rohde & Schwarz EMC32 test software. The TS8997 system houses a switch matrix (OSP), along with a spectrum analyzer, vector network analyzer, and analog signal generator.

8.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
212164	Temperature/Pressure/Humidity Sensor	Extech	SD700	109402	07/14/2026	07/14/2027
213500	Analog Signal Generator (8kHz-40GHz)	Rohde & Schwarz	SMB100B	106096	05/08/2025	05/08/2027
213502	Spectrum Analyzer (2Hz-43.5GHz)	Rohde & Schwarz	FSW43	102972	08/05/2026	08/05/2027
213503-01	Megaphase	OSP DUT Cable 1	KC12-K1K1-80	20815001 001	VBU	VBU

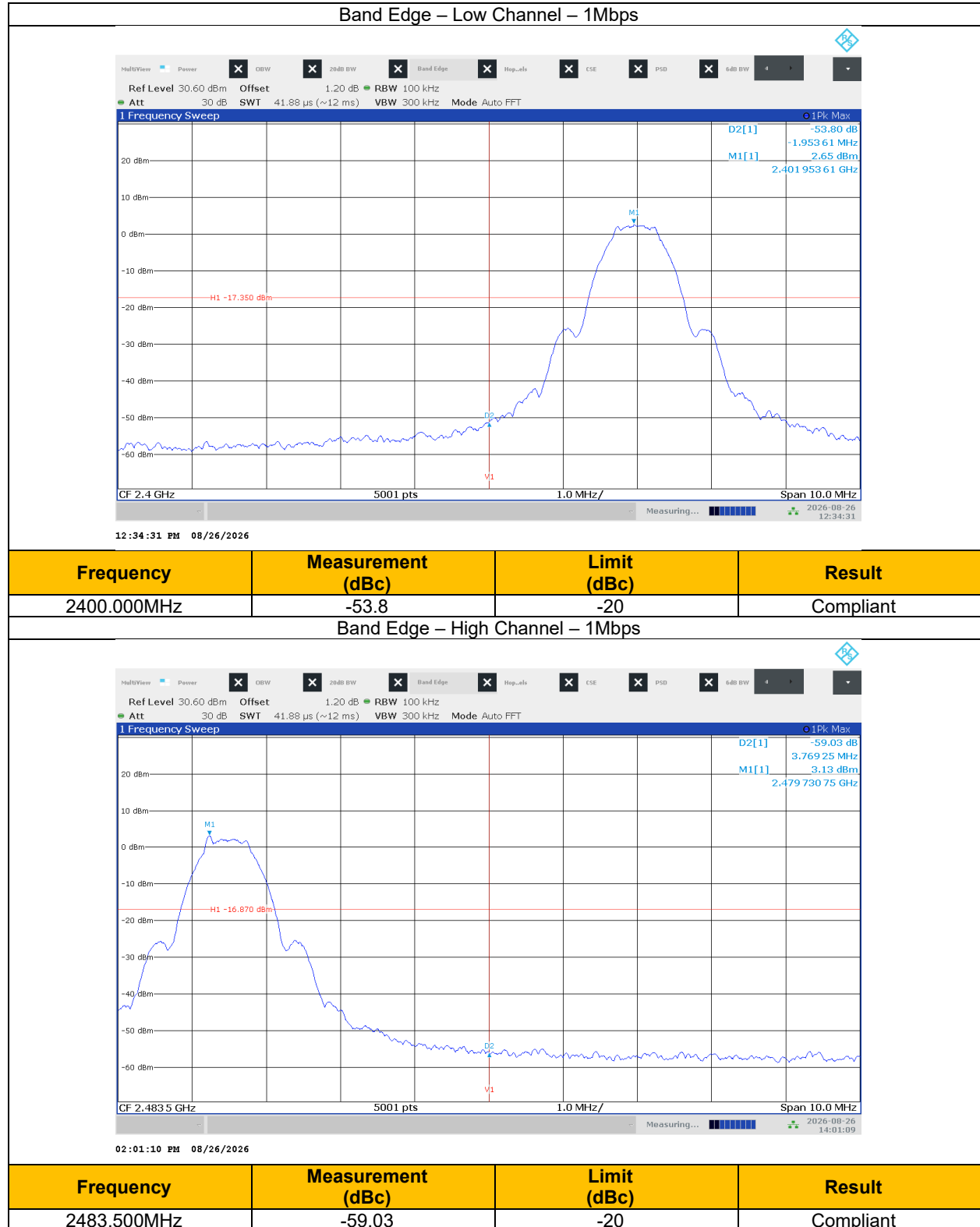
Software Utilized

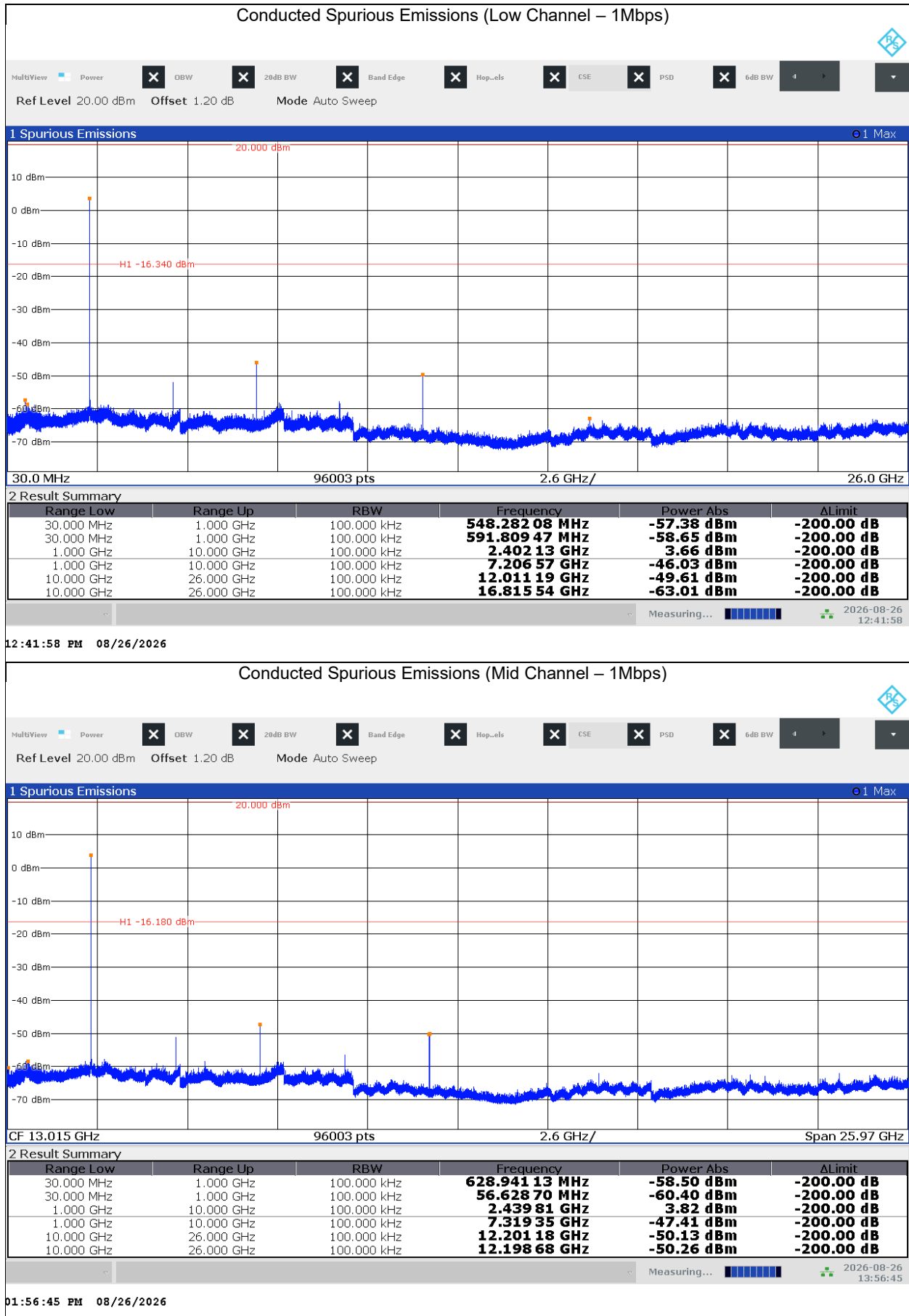
Name	Manufacturer	Version
RSCCommander	Rohde & Schwarz	2.4.2

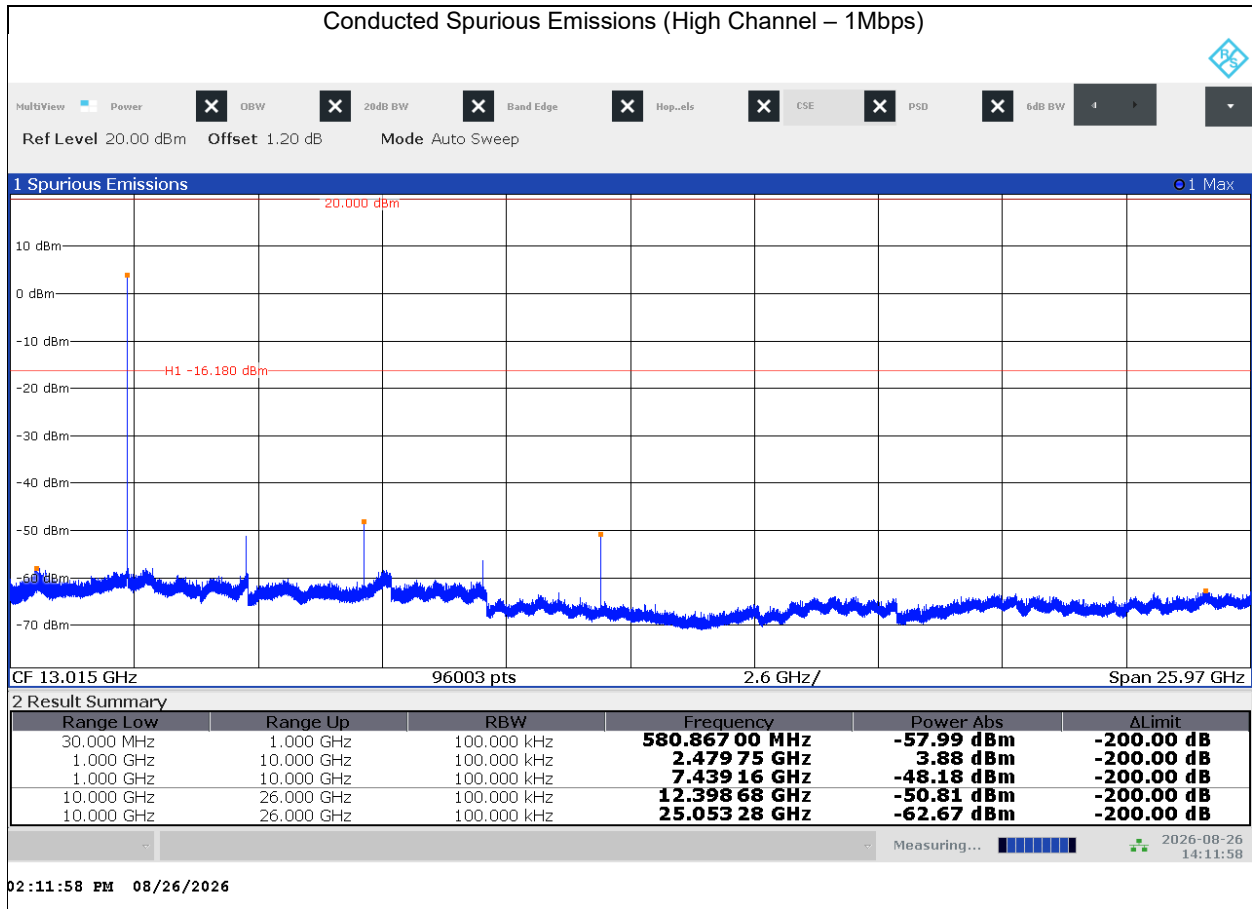
8.3 Results

The sample tested was found to Comply.

8.4 Plots/Data







Test Personnel: Jeremy Pickens

Supervising/Reviewing Engineer: _____

(Where Applicable) _____

Product Standard: ANSI C63.10

Input Voltage: 4.1Vdc

Test Date: 26 August 2026

Ambient Temperature: 21.9°C

Relative Humidity: 43.4%

Atmospheric Pressure: 98.5kPa

9 Radiated Spurious Emissions / Restricted Frequency Bands

9.1 Method

Tests were performed in accordance with ANSI C63.10. The EUT was tested at a height of 0.8m for measurements below 1GHz and at 1.5 meters for measurements above 1GHz.

TEST SITE: 10 Meter Chamber

10 Meter Semi-Anechoic Chamber The test site for radiated emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. It is a 10-meter semi-anechoic chamber manufactured by Panashield. Embedded in the floor is a 3-meter diameter turntable.

Limits – Spurious Emissions

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

RSS-GEN, Clause 7.4.3

Table 4: General field strength limits below 30 MHz		
Frequency MHz	Magnetic field strength limit ⁱ μ A/m	Measurement distance m
0.009 to 0.49	$6.37 / f(f \text{ in kHz})$	300
0.49 to 1.705	$63.7 / f(f \text{ in kHz})$	30
1.705 to 30	0.08	30
i. The more stringent limit shall apply at the transition frequency.		

Table 5: General field strength limits at and above 30 MHz	
Frequency MHz	Electric field strength limit ⁱ at 3 m distance μ V/m
30 to 88	100
88 to 216	150
216 to 960	200
> 960	500
i. The more stringent limit shall apply at the transition frequency.	

Note: For measurements below 30MHz the limits were adjusted by 40dB per decade to account for measurements at 3 meters.

Example

30 μ V/m at 30 meters = 20*log (30) = 29.5dB μ V/m
 At 3 meters: 29.5dB μ V/m + 40dB = 69.5dB μ V/m.

Sample Calculation

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

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

Where

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

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

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

$$\begin{aligned}FS &= 32 \text{ dB}\mu\text{V/m} \\RA &= 52.0 \text{ dB}\mu\text{V} \\CF &= 1.6 \text{ dB} \\AF &= 7.4 \text{ dB/m} \\AG &= 29.0 \text{ dB}\end{aligned}$$

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

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

Example

$$\begin{aligned}FS &= RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0 \text{ dB}\mu\text{V/m} \\UF &= 10^{(32 \text{ dB}\mu\text{V/m} / 20)} = 39.8 \mu\text{V/m}\end{aligned}$$

9.2 Test Equipment

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
200080	Preamplifier, 18-40GHz, 29 dB Gain	Miteq	JS41800400-30-5P-S	818197	10/22/2025	10/22/2026
200082	Preamplifier, 20MHz to 2GHz, 40 dB	A.H. Systems	PAM-0202	203	06/11/2026	06/11/2027
200162	EMI Receiver (20Hz-40GHz)	Rohde & Schwarz	ESU 40	100314	10/07/2025	10/07/2026
211262	Controller - Turntable and Mast	Sunol	SC99V	SC99V-1	VBV	VBV
211264	Mast - Antenna	Sunol	TWR95	NNN2	VBV	VBV
212166	Temperature/Pressure/Humidity Sensor	Extech	SD700	110392	03/23/2026	03/23/2027
213023	Antenna, Horn, 18-40 GHz	EMCO	3116	9310-2222	07/02/2026	07/02/2027
213058A	Antenna, Horn, <18 GHz	A.H. Systems	SAS-200/571	246	04/21/2026	04/21/2027
213312	Antenna, BiLog, 20-2000MHz	Teseq	CBL 6112D	40527	06/29/2026	06/29/2027
213365	PreAmplifier 100Hz-30MHz	Com-Power	PAL-010	181492	06/28/2026	06/28/2027
213451	Omni -directional Comb Generator	Com-Power	CGO-520	281266	VBV	VBV
213453	Preamplifier 500MHz-18GHz	Com-Power	PAM-118A	18040030	10/20/2025	10/20/2026
213463	2.7GHz High Pass Filter	Micro Tronics	HPM50117	G008	06/28/2026	06/28/2027
E401	Cable E401, 40 GHz, 2.9, 9"	Megaphase	TM40 K1K1 9	E401	10/22/2025	10/22/2026
MM5	RF Coax Cable 9kHz-18GHz	Maury Microwave	UC-N-MM-118	163203	04/06/2026	04/06/2027
MM8	RF Coax Cable 9kHz-18GHz	Fairview Microwave	UC-N-MM-267	1635289	06/28/2026	06/28/2027
MM12	RF Coax Cable 9kHz-18GHz	Fairview Microwave	SCE18110505-600CM	MM12	09/11/2025	09/11/2026
MP10	RF Coax Cable 9kHz-18GHz	Fairview Microwave	FMCA1282-394	MP10	06/30/2026	06/30/2027
MP14	RF Coax Cable 9kHz-18GHz	Megaphase	EC29-N1N1-276-H	20938802	09/19/2025	09/19/2026
MP-HF-3	RF Coax Cable 1GHz-40GHz	Megaphase	GC12-K1K1-233-H	20809305001	03/31/2026	03/31/2027
NYM-EMC-36	Antenna, Loop, Passive (10 kHz - 30 MHz)	EMCO	6512	9810-1228	08/04/2026	08/04/2027

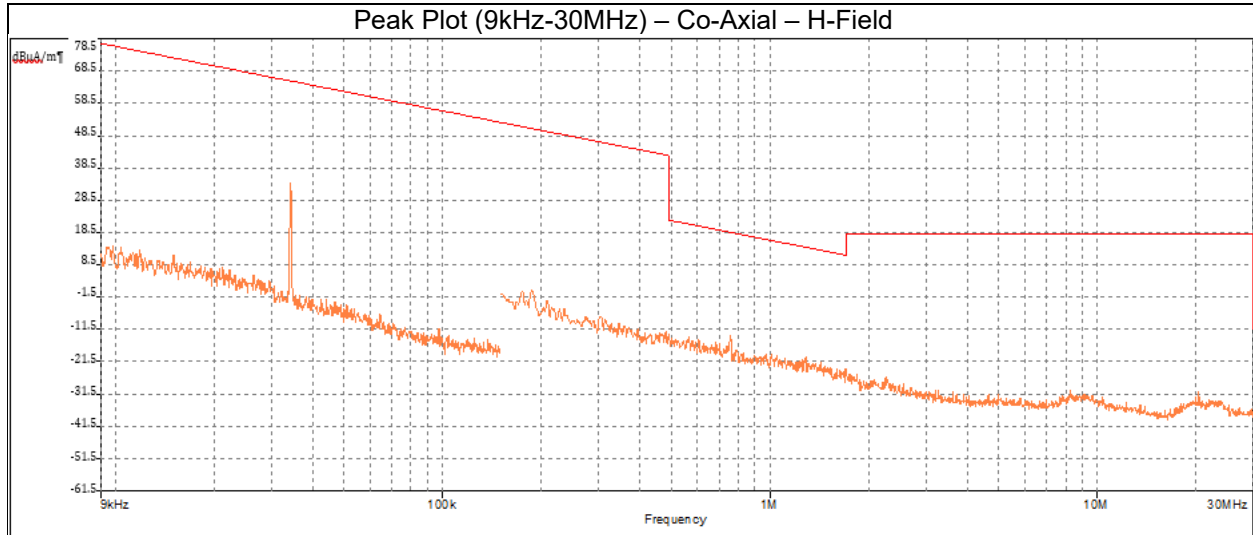
Software Utilized

Name	Manufacturer	Version
BAT EMC	NEXIO	3.19.1.18

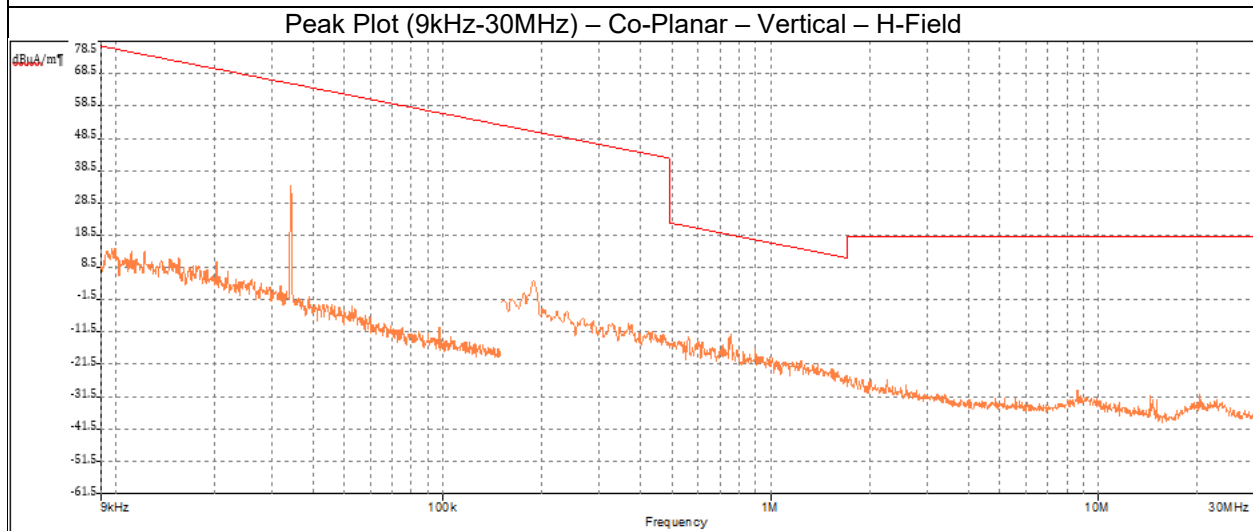
9.3 Results

The sample tested was found to Comply.

9.4 Plots/Data – Spurious Emissions

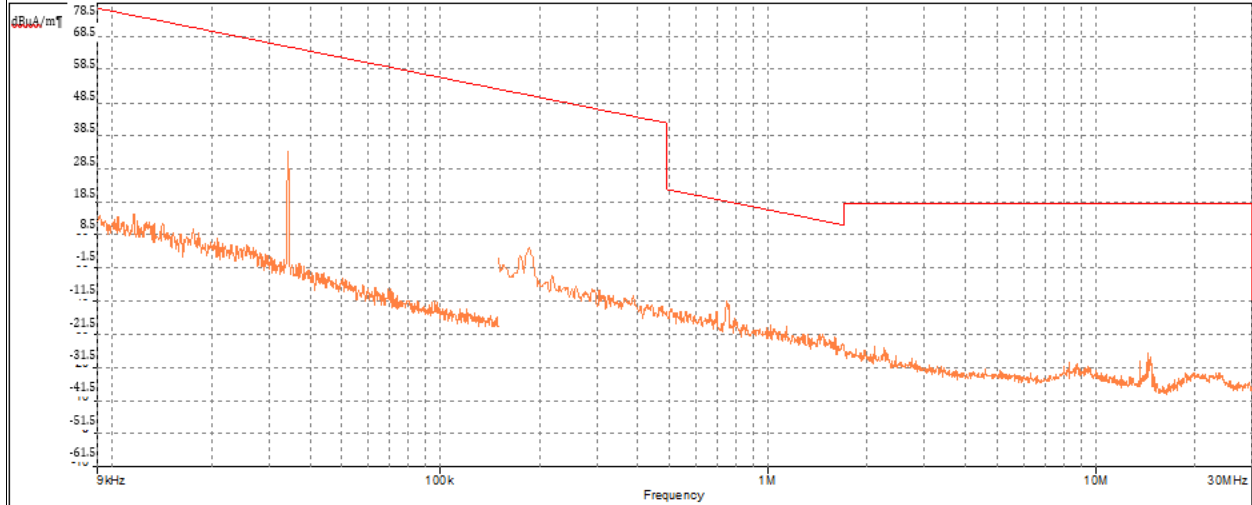


Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.



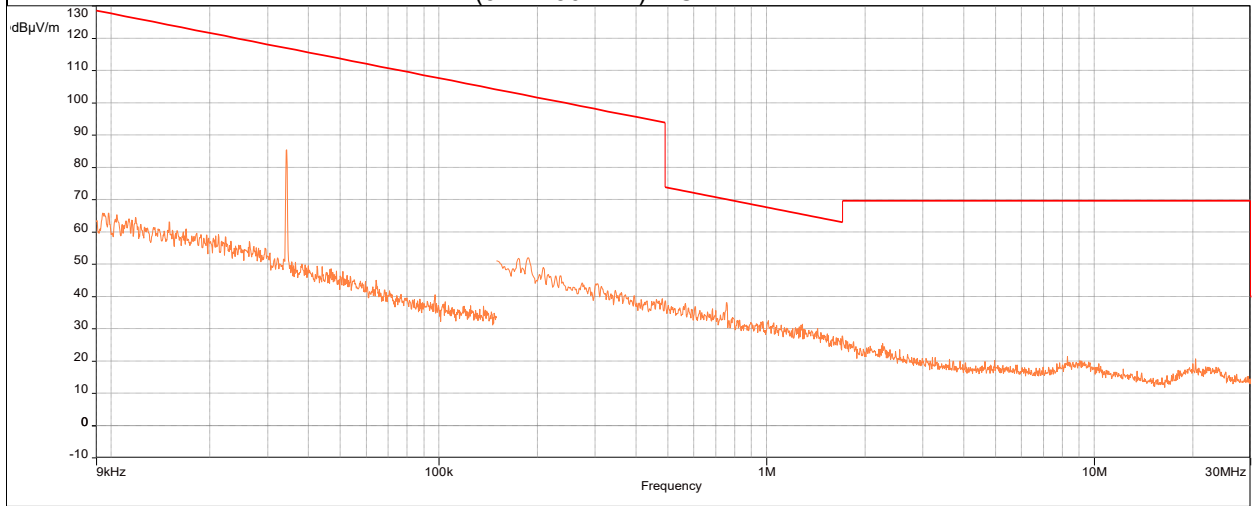
Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.

Peak Plot (9kHz-30MHz) – Co-Planar – Horizontal – H-Field

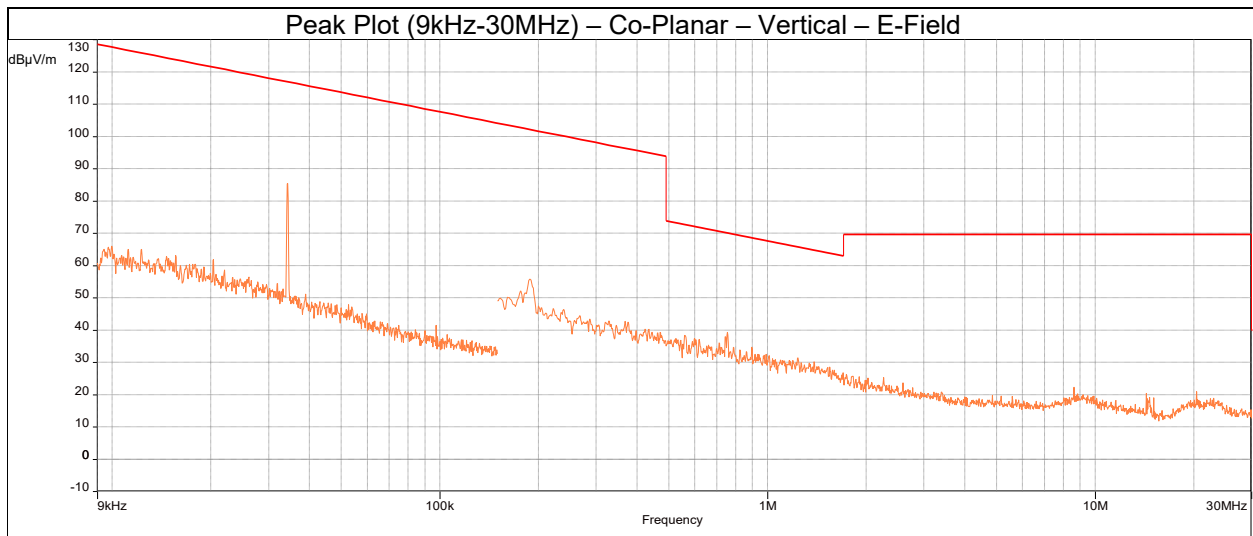


Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.

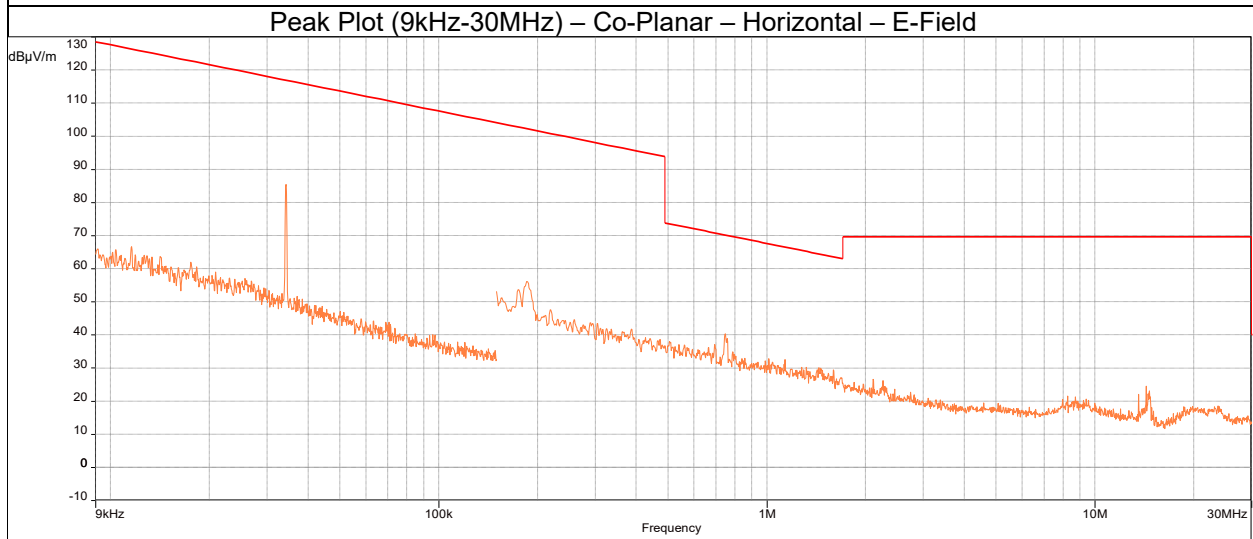
Peak Plot (9kHz-30MHz) – Co-Axial – E-Field



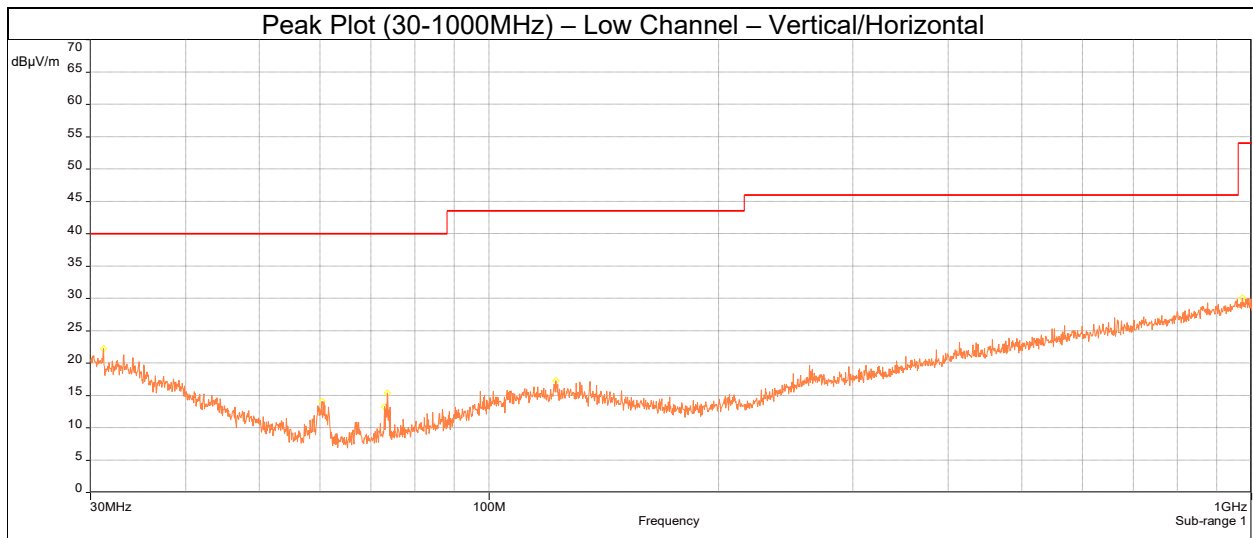
Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.



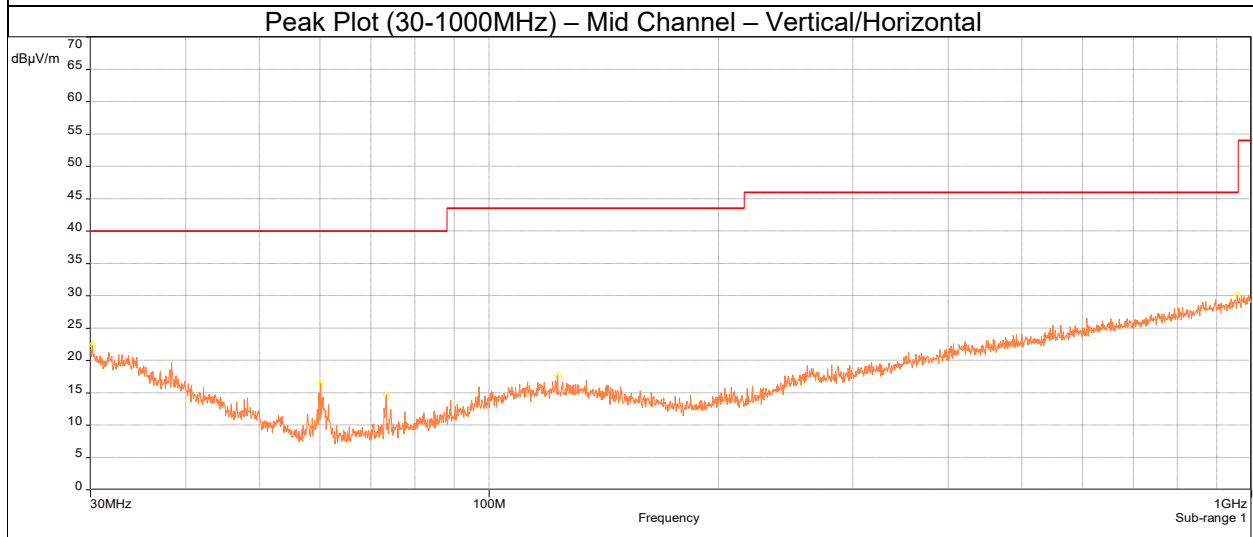
Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.



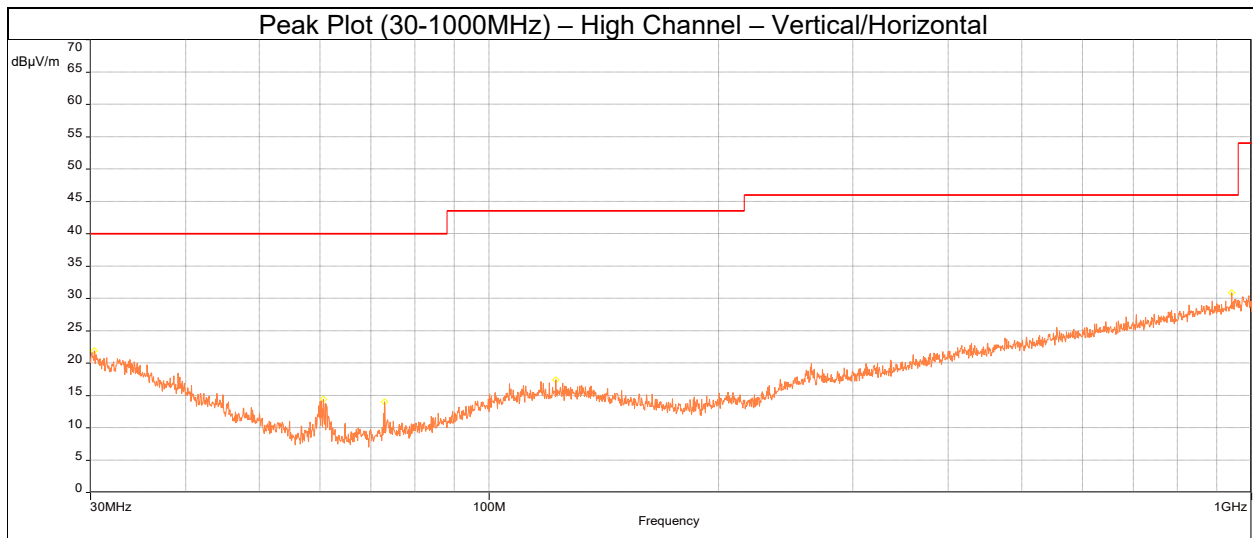
Note: There was no discernible difference among channels in this frequency range – worst-case power/PSD data presented. The emission at 35kHz is an ambient signal.



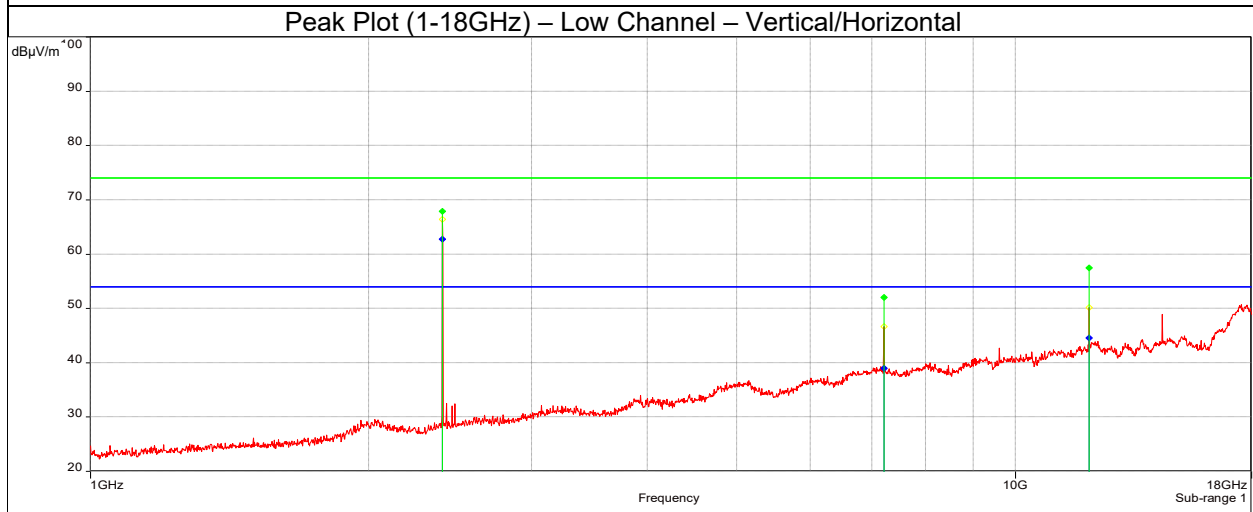
FCC Part 15 Transmitters/FCC 15.209



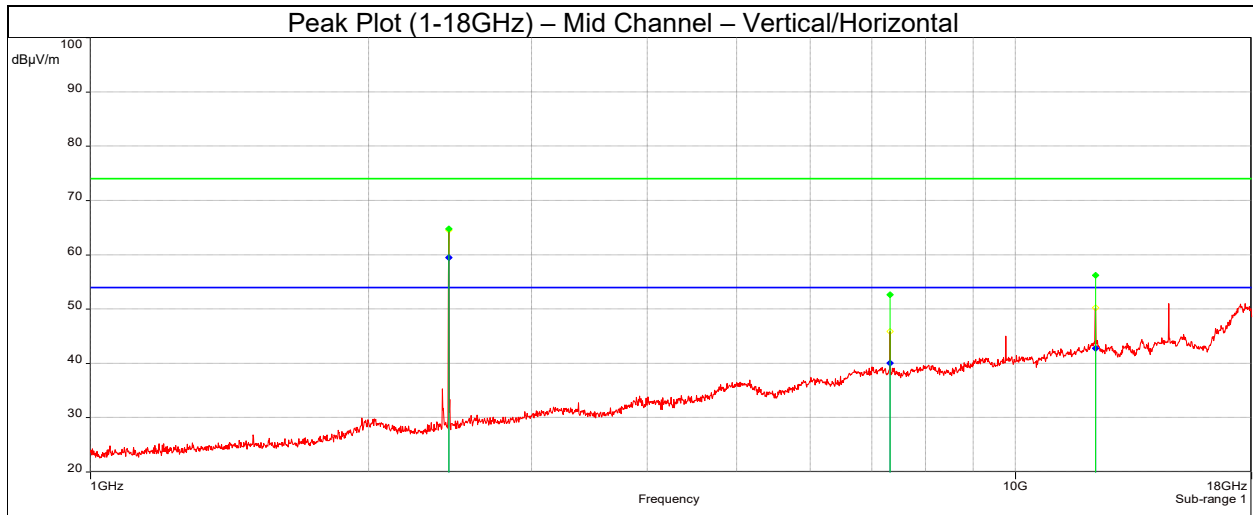
FCC Part 15 Transmitters/FCC 15.209



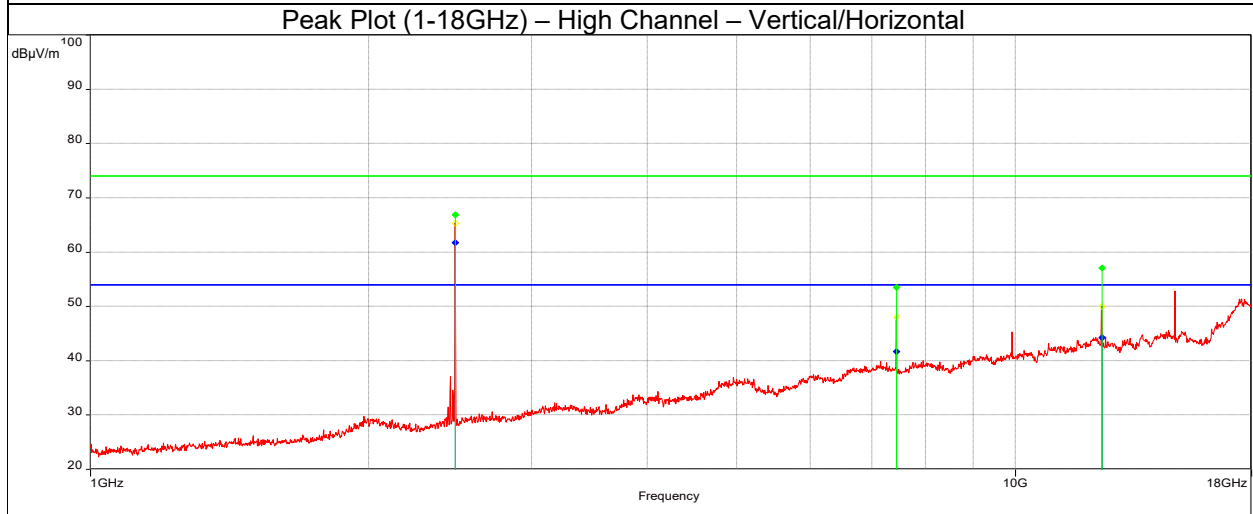
FCC Part 15 Transmitters/FCC 15.209



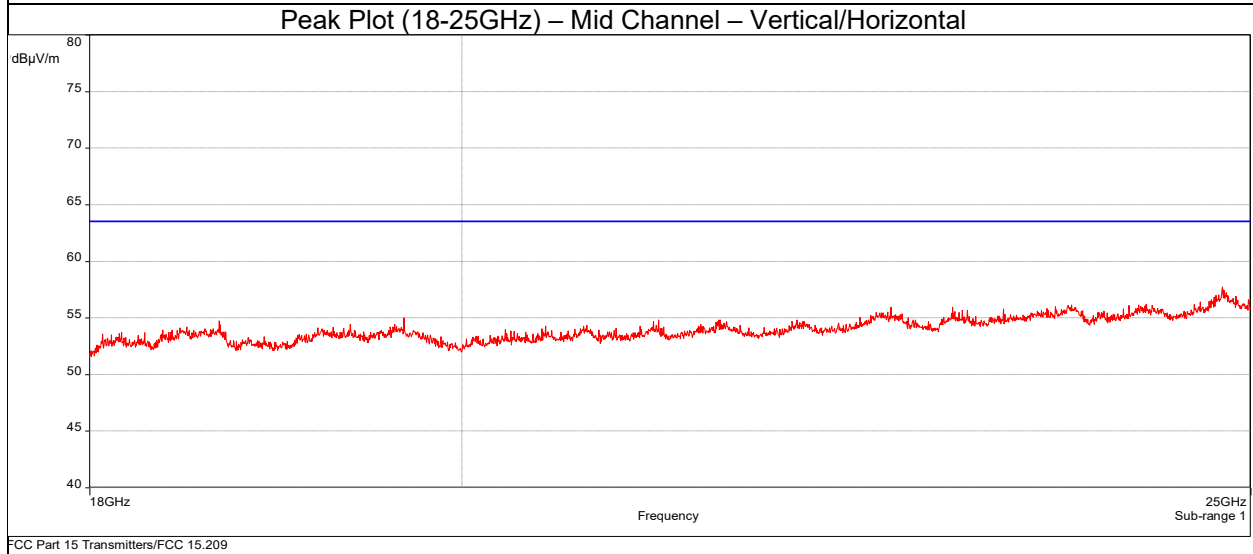
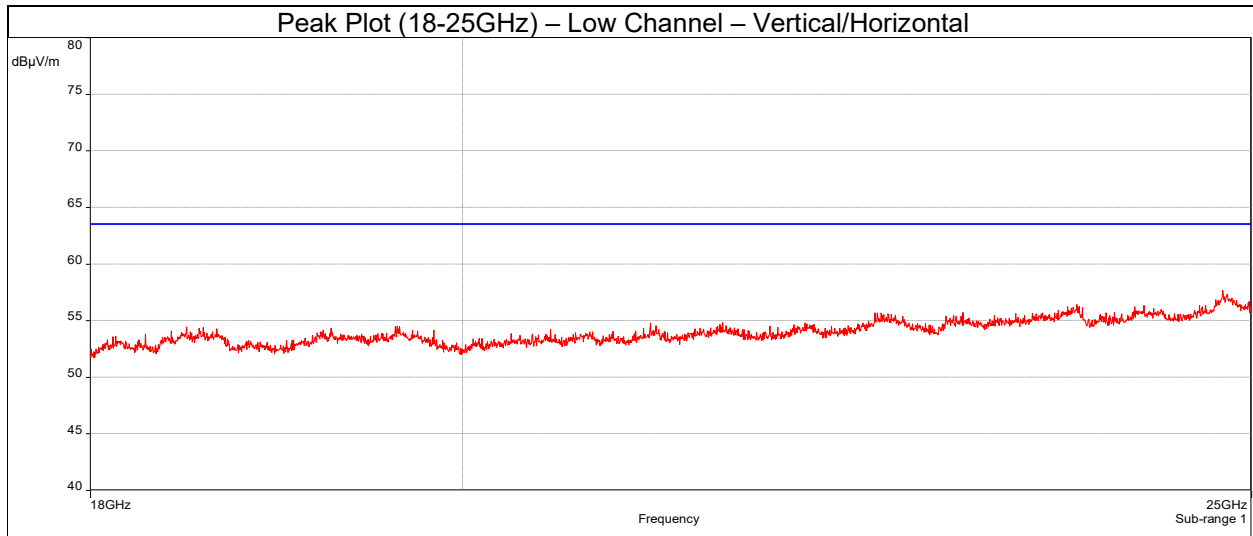
FCC Part 15 Transmitters/FCC 15.209

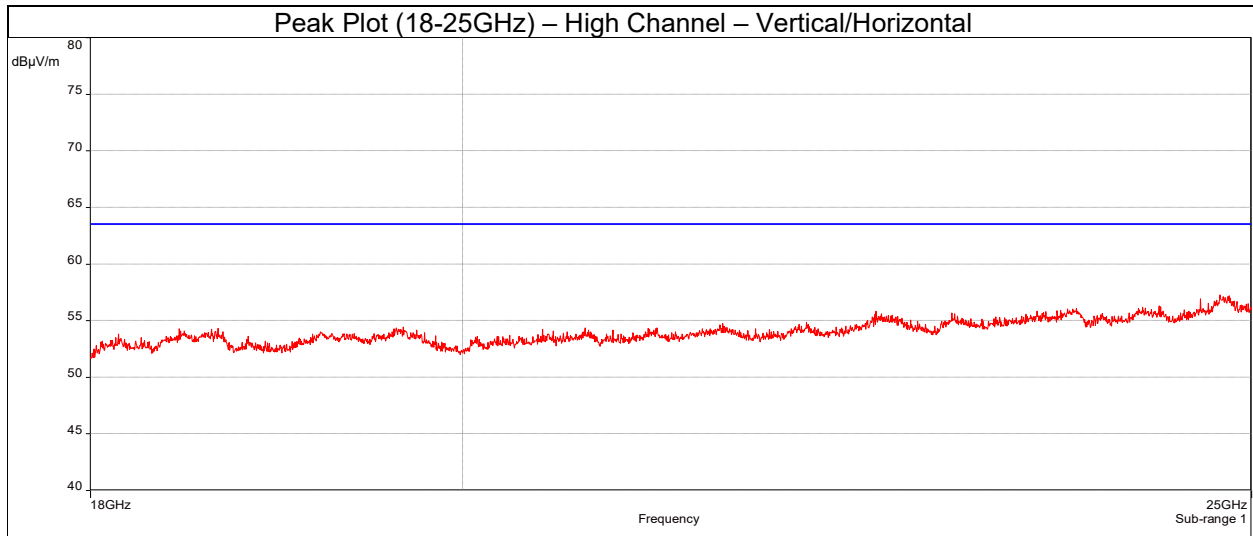


FCC Part 15 Transmitters/FCC 15.209

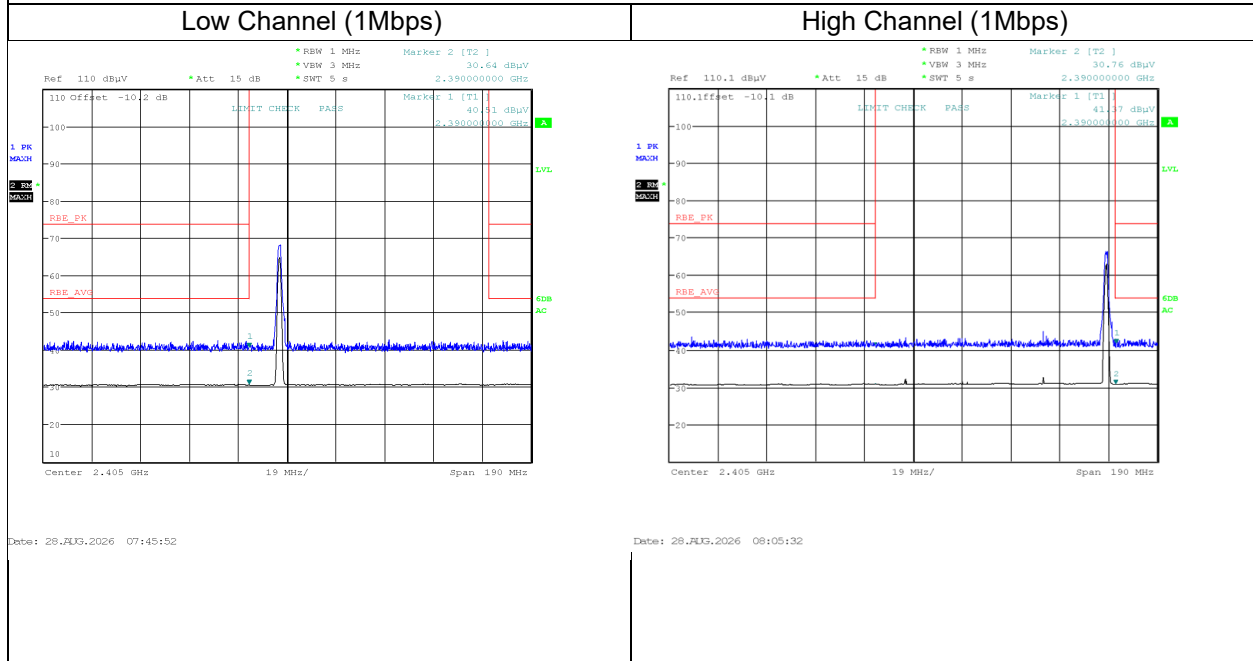


FCC Part 15 Transmitters/FCC 15.209





Restricted Band Edges



Tabular Data								
Peak								
Frequency (MHz)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Peak Margin (dB)	Azimuth (°)	Height (m)	Polarity	RBW (MHz)	Correction (dB/m)
Low Channel (2402MHz)								
2390.000	40.51	74	-33.49	129	2.78	Horizontal	1	-10.2
7206.676	52.06	74	-21.94	175	1.44	Horizontal	1	-0.54
12011.134	57.48	74	-16.52	10	1.74	Horizontal	1	5.32
Mid Channel (2440MHz)								
7320.656	52.66	74	-21.34	182	2.77	Horizontal	1	-0.49
12201.191	56.27	74	-17.73	125	2.13	Vertical	1	5.63
High Channel (2480MHz)								
2483.500	41.37	74	-32.63	342	2.59	Horizontal	1	-10.1
7439.283	53.51	74	-20.49	225	2.41	Horizontal	1	-0.54
12398.819	57.11	74	-16.89	8	2.83	Horizontal	1	5.48
Average								
Frequency (MHz)	AVG Level (dBµV/m)	AVG Limit (dBµV/m)	AVG Margin (dB)	Azimuth (°)	Height (m)	Polarity	RBW (MHz)	Correction (dB/m)
Low Channel (2402MHz)								
2390.000	30.64	54	-23.36	129	2.78	Horizontal	1	-10.2
7206.676	38.97	54	-15.03	175	1.44	Horizontal	1	-0.54
12011.134	44.55	54	-9.45	10	1.74	Horizontal	1	5.32
Mid Channel (2440MHz)								
7320.656	40.09	54	-13.91	182	2.77	Horizontal	1	-0.49
12201.191	42.8	54	-11.2	125	2.13	Vertical	1	5.63
High Channel (2480MHz)								
2483.500	30.76	54	-23.24	342	2.59	Horizontal	1	-10.1
7439.283	41.68	54	-12.32	225	2.41	Horizontal	1	-0.54
12398.819	44.29	54	-9.71	8	2.83	Horizontal	1	5.48

Test Personnel: Jeremy Pickens 

Supervising/Reviewing Engineer: _____

(Where Applicable) _____

Product Standard: ANSI C63.10

Input Voltage: 4.1Vdc

Pretest Verification w/ Ambient Signals or BB Source: BB

Test Date: 27 August - 03 September 2026

Limit Applied: 15.209

Ambient Temperature: 19.3 – 22.1°C

Relative Humidity: 40.2 – 43.1%

Atmospheric Pressure: 98.2 – 98.5kPa

Deviations, Additions, or Exclusions: None

10 Measurement Uncertainty

Parameter	Expanded Uncertainty for Normal k factor equal to 2
Radio Frequency	0.07
Total RF Power (Conducted)	0.65
Power Density (Conducted)	0.65
RF Spurious (Conducted)	1.8 dB
Radiated Emissions (9kHz-30MHz)	4.7 dB
Radiated Emissions (30MHz-1GHz)	4.4 dB
Radiated Emissions (1GHz-18GHz)	4.5dB
Radiated Emissions (18GHz-40GHz)	5.0 dB
AC Line Conducted Emissions	2.8 dB
Temperature	0.7°
Humidity	3.9%

11 Revision History

Revision Level	Date	Prepared By	Reviewed By	Notes
0	10 September 2026	JOP	US	Original Issue
1	21 September 2026	JOP	US	• Updated antenna gain value and EIRP calculations • Added magnetic field plots for below 30MHz

END OF REPORT