

Test Report

Prepared for: Wavetronix LLC

Model: 106-0001

Serial Number: 106-0043-0000001

Project No: p2630015

FCC ID: PCB-FA02

IC ID: 4513A-FA02

Test Results: Pass

To

FCC Part 15.247

&

RSS Gen Issue 5 (April 2018)

RSS-247 Issue 4 (July 2025)

Date of Issue: April 30, 2026

On the behalf of the applicant:

Wavetronix LLC
1827 W South Park Street
Springville, UT 84663

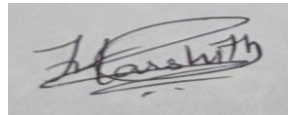
Attention of:

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Prepared By:

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ANAB Cert#: AT-2901
FCC Site Reg. #750616
ISED Site Reg. #2044A-2
CAB US-ID: US0122

Reviewed / Authorized By:



Harshith Devaraja, EMC Engineer

Test Results Summary

Test Date Range: April 06, 2026 – April 22, 2026

Specification		Test Name	Pass, Fail, N/A	Comments
FCC	RSS			
15.247(a)(2)	RSS Gen 6.7 RSS 247 6.3.1(a)	Occupied Bandwidth	Pass	
15.247(b)(3)	RSS 247 6.3.2	Transmitter Output Power	Pass	
15.247(d)	RSS 247 6.6	Conducted Spurious Emissions	Pass	
15.247(d), 15.209(a), 15.205	RSS Gen 8.9/8.10 RSS 247 6.6	Spurious Emissions	Pass	
15.247(e)	RSS 247 6.3.1(b)	Power Spectral density	Pass	
15.207	RSS Gen 8.8	A/C Powerline Conducted Emissions	N/A	Battery operated device
15.203	RSS Gen 6.8	Antenna Requirement	Pass	
Method Deviations/Additions: No				

Statements of conformity are reported as:

- Pass - the measured value is below the acceptance limit, *acceptance limit = test limit*.
- Fail - the measured value is above the acceptance limit, *acceptance limit = test limit*.

References/Methods	Description
ANSI C63.4-2014	Method and Measurements of Radio-Noise Emissions from low-Voltage Electrical and Electronic Equipment in the range 9kHz to 40GHz.
ANSI C63.10:2020+ Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
558074 D01 15.247 Meas Guidance v05r02	Guidance for Compliance Measurements on DTS, FHSS, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules
ISO/IEC 17025:2017	General requirements for the Competence of Testing and Calibrations Laboratories

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	April 30, 2026	Harshith Devaraja	Original Document
2.0	July 22, 2026	Harshith Devaraja	CAB US-ID updated Radiated Emission plots updated

Current revision of the test report replaces any prior versions. Only the current version of the test report is valid.

EUT Description

Model:	106-0043
IC HVIN:	FATHOM-FA02
IC PMN:	Fathom Bluetooth Hub
Serial:	106-0043-0000001
Firmware:	host_test_LP_EM_CC2745R10_Q1_antSwitch_HIGH_ant2
Description:	RV Bluetooth device to interface with the Fathom Tensor sensor
Additional Information:	Radio Frequency Range and Operational Info: 2.402 – 2.480 GHz BLE GFSK (1Mbps) Usage: Fixed/Mobile The Bluetooth device contains two non-simultaneous transmission antennas controlled by an RF switch after the module RF Antenna 1 & RF Antenna 2
Receipt of Sample(s):	April 06, 2026
EUT Condition:	Visual Damage No State of Development Production/Production Equivalent

The applicant has been cautioned as to the following

15.21 - Information to User

The user's manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) - Special Accessories

Equipment marked to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer without an additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

Authorization Requirements

Intentional Radios may require authorization covered under the following rule parts or standards:

-47 CFR Part 2 Subpart J

Note: These notices are specific to the methods and standards related to the testing within this report. Customers should also consider and review additional legal regulations for import/export documentation and labeling for the countries and geographies under consideration by the manufacturer.

Test and Measurement Data

Subpart 2.1033(b)

All tests and measurement data shown were performed in accordance with FCC Rule Parts: 15.247.

Standard Engineering Practices

Unless otherwise indicated, the procedures contained in ANSI C63.10 and ANSI C63.4 were observed during testing.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing. Measurement results, unless otherwise noted, are worst case measurements.

Standard Test Conditions and Engineering Practices

Unless otherwise indicated in the specific measurement results, the ambient temperature was maintained within the range of 10° to 40°C (50° to 104°F) and the relative humidity levels were in the range of 10% to 90%.

Environmental Conditions		
Temperature (°C)	Humidity (%)	Barometric Pressure (mbar)
22.33 - 25.56	28.3 - 31.5	962.5 - 969.8

Test Setup and Modes of Operation

EUT Operation during Tests

EUT was connected to a test laptop to control the channel selection. The EUT was operated to control the continuous transmission in low, mid and high channels in the 2.4-2.4835 GHz frequency range (BLE).

Accessories:

Qty	Description	Manufacturer	Model	S/N
1	Laptop	Lenovo	Think pad	PY-12YA0U
1	Wall power adapter	Shenzhen Honor Electronic Co.Ltd	ADS-12FG-12N	12012EPCU
3	Sensors	Fathom RV Tank Sensor	106-0001	PC 4524 94V-0 3-6 P29 PC 4524 94V-0 2-9 P36 PC 4524 94V-0 1-10 P2

Cables:

Qty	Description	Length (M)	Ferrites (Y/N)	Shielding Y/N	Shielded Hood Y/N	Termination / Connection
3	Sensor Cables	6	N	N	N	EUT/Sensor
1	Power Cable	6	N	N	N	Power adapter/ EUT

Software/Firmware:

Name	Description	Version	Installation Info
SimpleLink Lowpower-F3-SDK	Software development kit	9.12.00.19	N/A

Modifications to EUT(s): N/A

15.203: Antenna Requirement:

- ☒ The antenna is permanently attached to the EUT
- ☐ The antenna uses a unique coupling
- ☐ The EUT must be professionally installed
- ☐ The antenna requirement does not apply

The antenna gain stated by the manufacturer:

RF Antenna 1: 4.0 dBi

RF Antenna 2: 4.0 dBi

Transmitter Output Power

Engineer: Harshith Devaraja

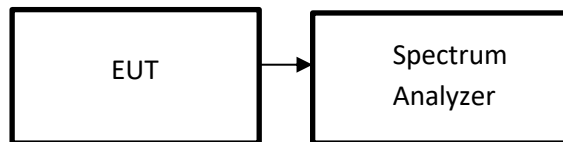
Test Date: 04/06/26

Test Procedure

Conducted Method

RF Antenna 1 and RF Antenna 2 sequentially, via a pigtail cable, were directly connected to the spectrum analyzer to verify that the EUT met the requirements for Output Power.

Test Setup



The Spectrum Analyzer was set to the following:

RBW $\geq$ OBW Bandwidth

VBW $\geq 3 \times$ RBW

Span $\geq 3 \times$ RBW

Sweep time = auto couple

Detector = peak

Trace Mode = max hold

The RF output power was measured using the spectrum analyzer's marker peak function. The conducted power at both RF Antenna 1 and 2 are reported.

Transmitter Output Power Summary Table

RF Antenna 1

Tuned Frequency (MHz)	Conducted Peak power (dBm)	Conducted peak power (mW)	Specification Limit	Result
2402	0.69	1.172	1 W (30 dBm)	Pass
2440	0.43	1.104	1 W (30 dBm)	Pass
2480	0.17	1.039	1 W (30 dBm)	Pass

Tuned Frequency (MHz)	Conducted Peak power (dBm)	Antenna Gain (dBi)	EIRP (W)	EIRP (dBm)	EIRP Limit	Result
2402	0.69	4	0.0029	4.69	4 W (36 dBm)	Pass
2440	0.43	4	0.0028	4.43	4 W (36 dBm)	Pass
2480	0.17	4	0.0026	4.17	4 W (36 dBm)	Pass

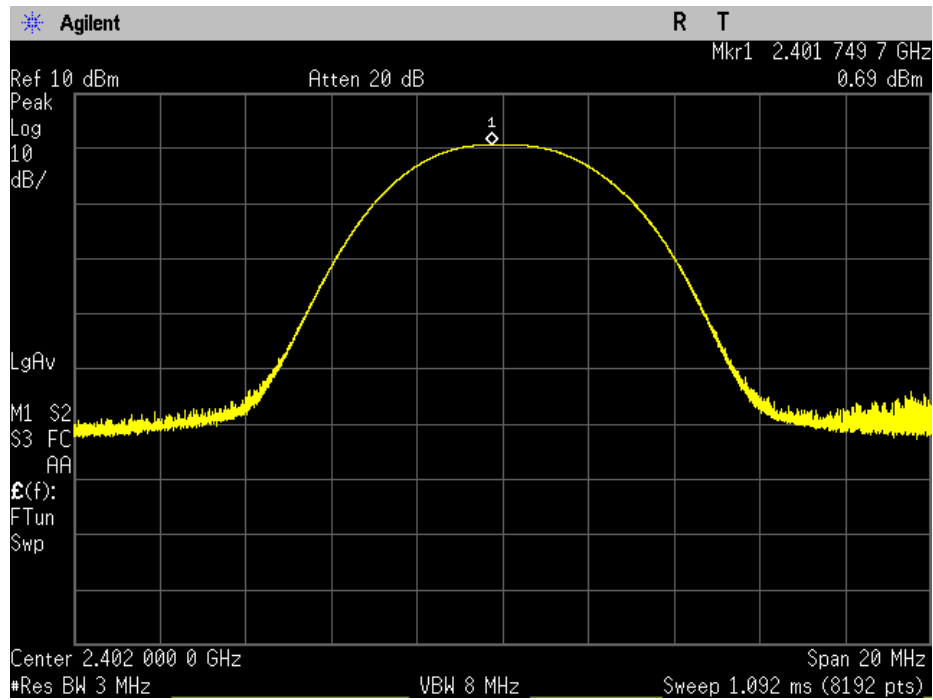
RF Antenna 2

Tuned Frequency (MHz)	Conducted Peak power (dBm)	Conducted peak power (mW)	Specification Limit	Result
2402	1.36	1.367	1 W (30 dBm)	Pass
2440	0.82	1.207	1 W (30 dBm)	Pass
2480	0.25	1.059	1 W (30 dBm)	Pass

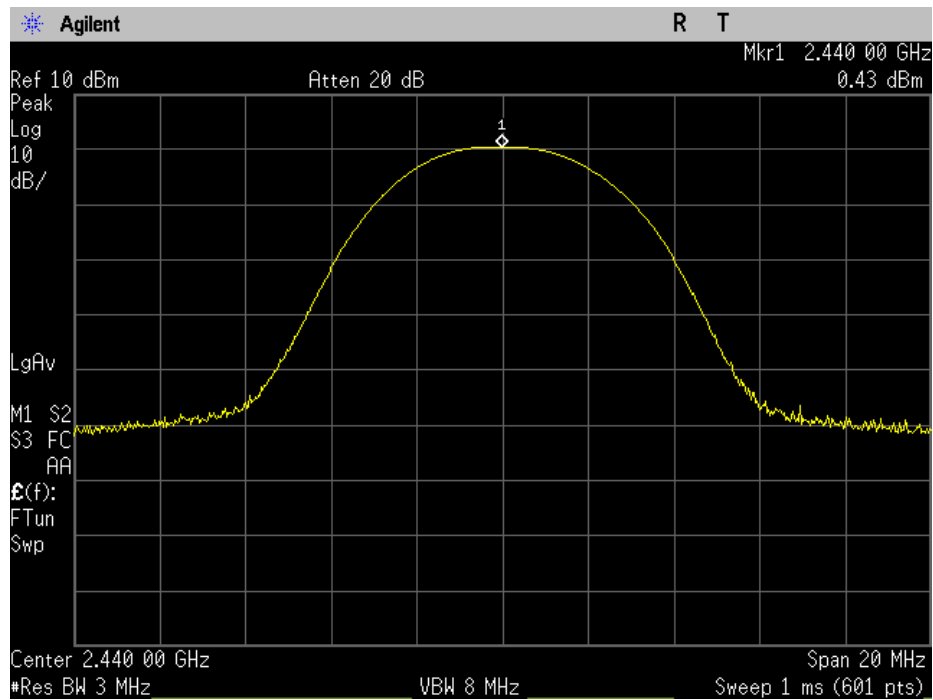
Tuned Frequency (MHz)	Conducted Peak power (dBm)	Antenna Gain (dBi)	EIRP (W)	EIRP (dBm)	EIRP Limit	Result
2402	1.36	4	0.0034	5.36	4 W (36 dBm)	Pass
2440	0.82	4	0.003	4.82	4 W (36 dBm)	Pass
2480	0.25	4	0.0027	4.25	4 W (36 dBm)	Pass

Output Power Plots

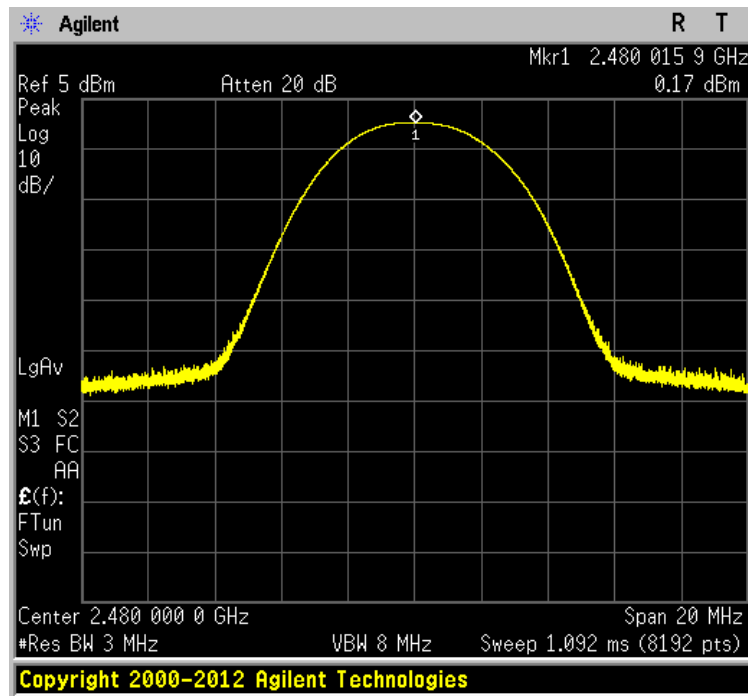
RF Antenna 1 Low Channel



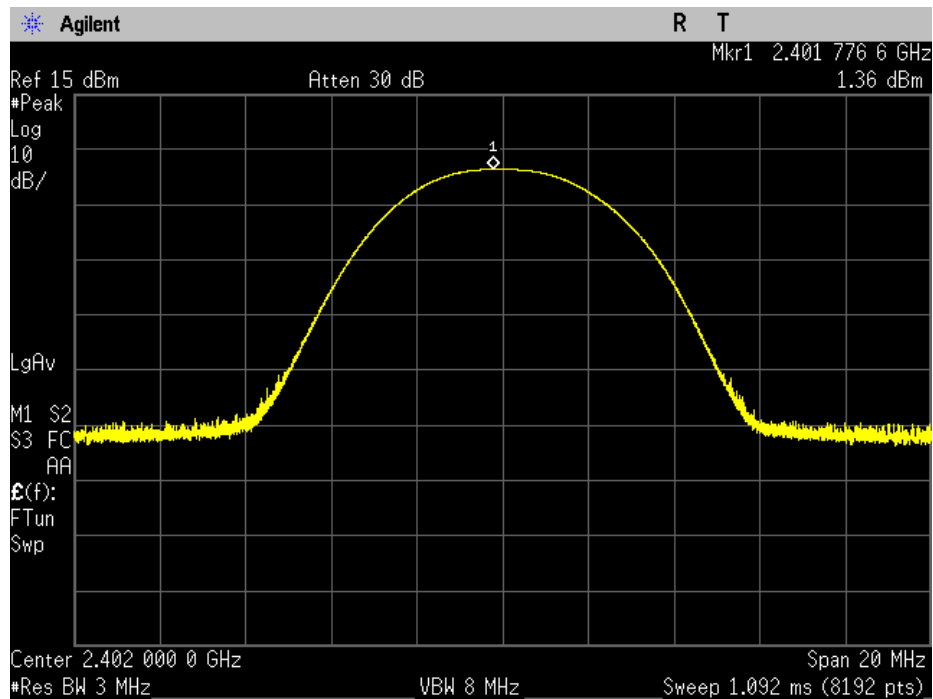
Mid Channel



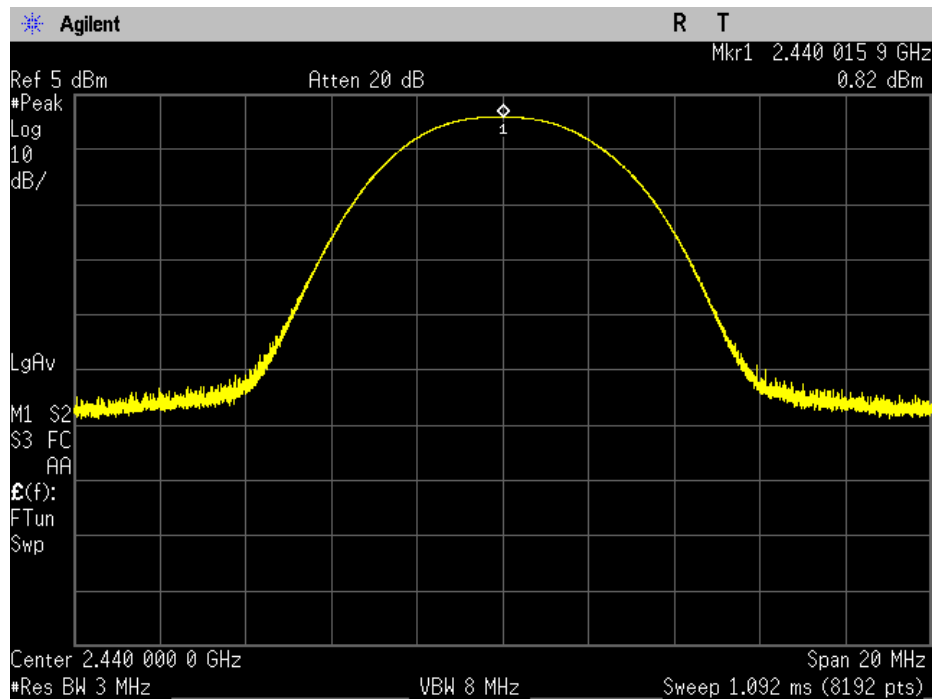
High Channel



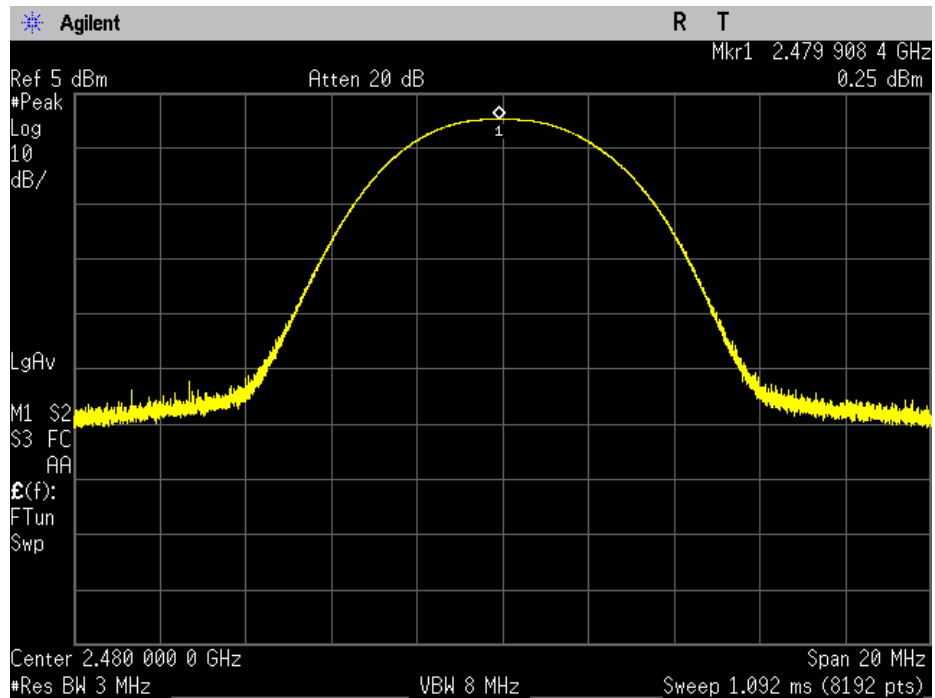
RF Antenna 2 Low Channel



Mid Channel



High Channel



15.209/15.205 Spurious Emissions

Engineer: Harshith Devaraja

Test Date: 04/06/26 – 04/22/26

Test Procedure

Radiated Method

The EUT was set up in a semi-anechoic test chamber set 3m from the receiving antenna. The EUT was set to transmit on the lowest, middle and highest frequency of operation at the maximum power level. The EUT was tested, in 3 orthogonal axes, by rotating it 360° with the receive antenna in both the vertical and horizontal orientation while raised from 1 to 4 meters to ensure the TX signal levels were maximized. EUT set in the Y axis was determined as the worst-case position. A spectrum analyzer was used to verify that the EUT met the requirements for Radiated spurious Emissions. All emissions across the required range were evaluated and emissions within 20dB margin are reported.

	30 - 1000 MHz	1 - 18 GHz	18 – 25 GHz
RF Antenna 1	Antenna terminated (50Ω)	Antenna transmitting	Antenna terminated (50Ω)
RF Antenna 2	Antenna terminated (50Ω)	Antenna transmitting	Antenna terminated (50Ω)

Worst case RF Antenna radiated emission reported.

Conducted Method

As per ANSI C63.10 Section 11.12.2

RF Antenna 1 and RF Antenna 2 sequentially, via a pigtail cable, were directly connected to the spectrum analyzer to verify that the EUT met the requirements for spurious emissions.

The conducted measurement plot reported below involves the resultant conversion from the EIRP to an equivalent electric field.

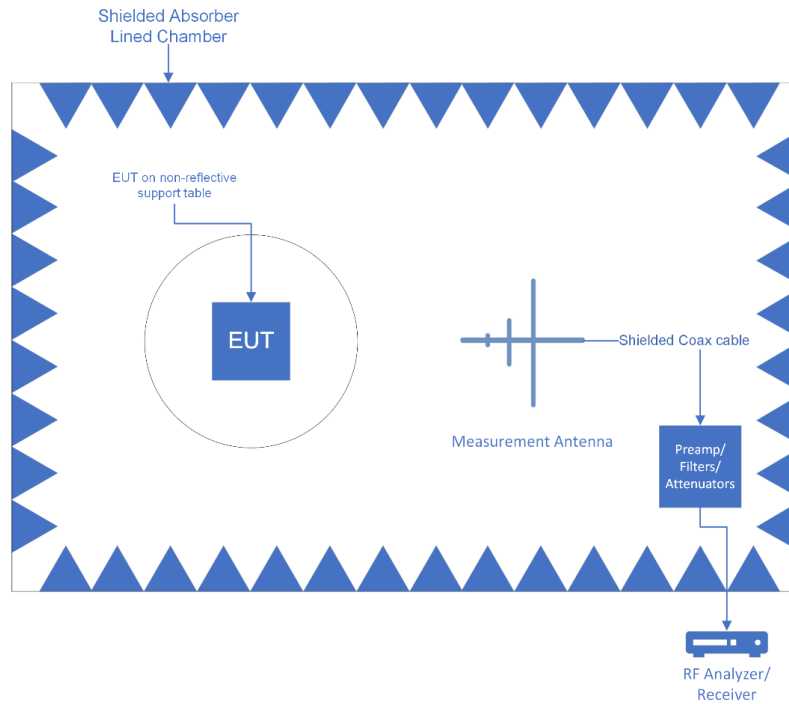
$$E = \text{EIRP} - 20 \log(3) + 104.8$$

The conversion is factored into the spectrum analyzer as the reference offset.

The maximum transmit antenna gain is set as an offset on the analyzer.

The cable loss is accommodated via a correction factor included in the spectrum analyzer.

Basic Test Setup



	Settings Below 1GHz	Settings Above 1GHz
RBW	120 kHz	1 MHz
VBW	300 kHz	3 MHz
Detector	Quasi Peak	Peak / Average

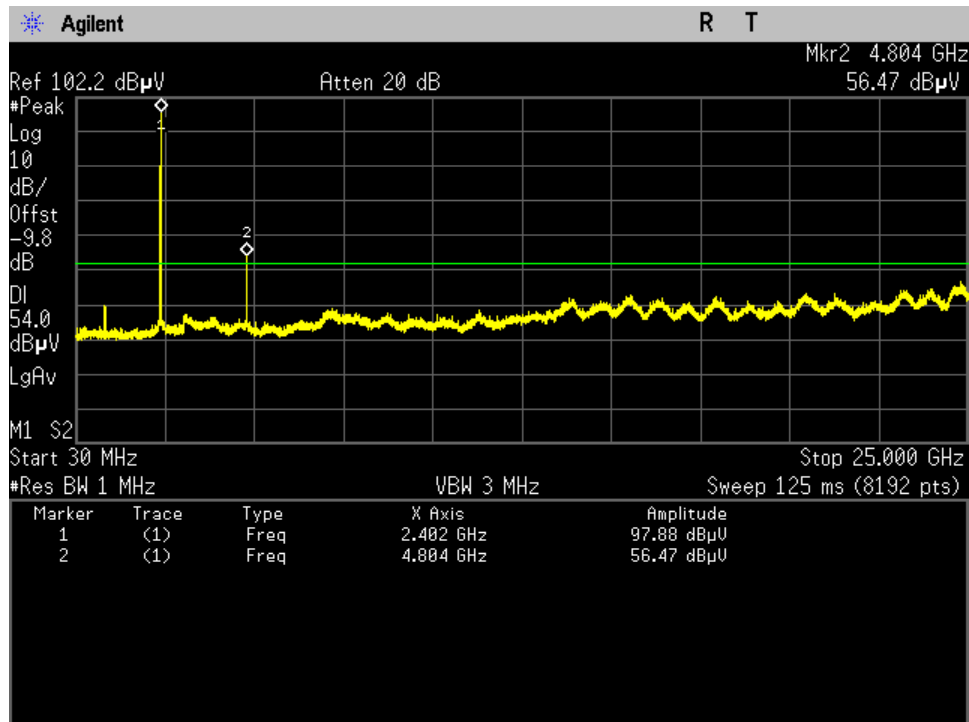
Sample Calculations

Corrected Value = Measured Value + Correction factor

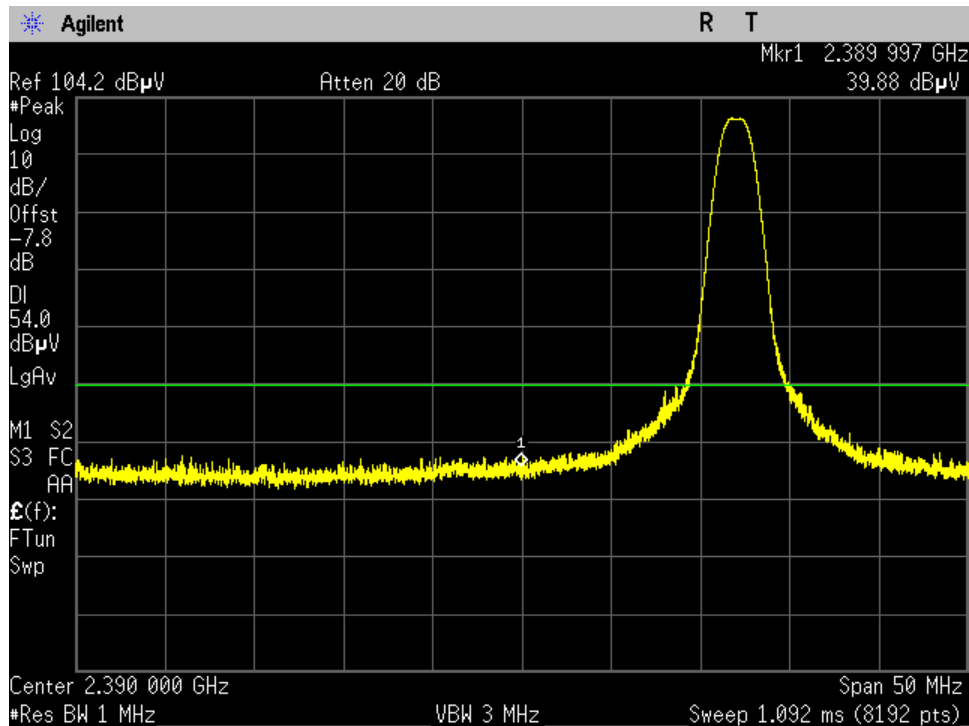
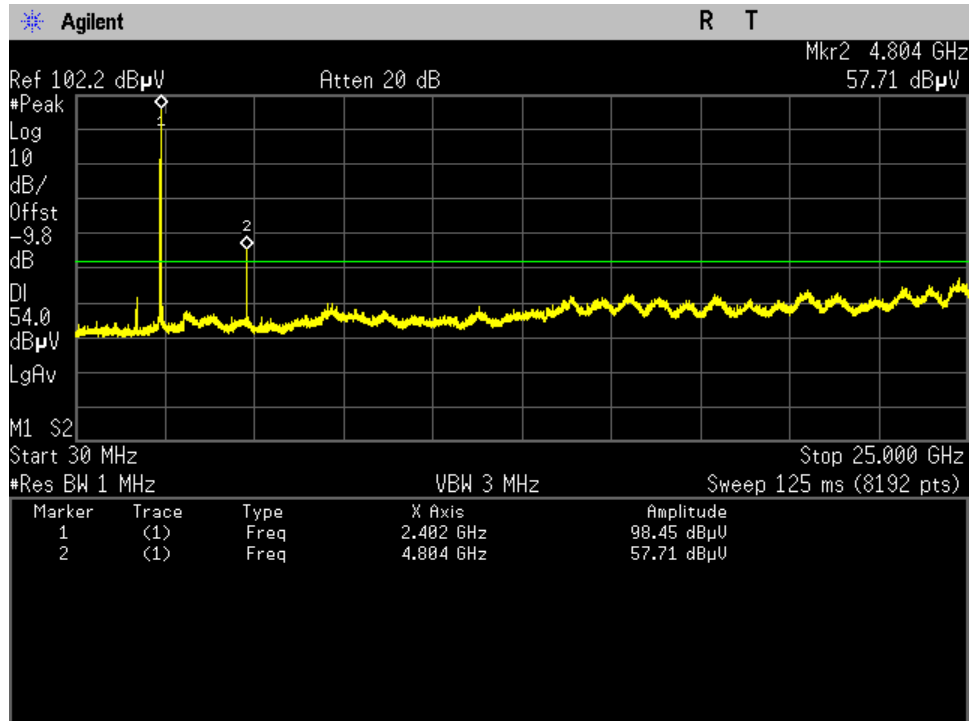
Correction factor = Antenna Correction Factor + Cable loss + Preamp/Attenuator Factor

Low Channel

RF Antenna 1

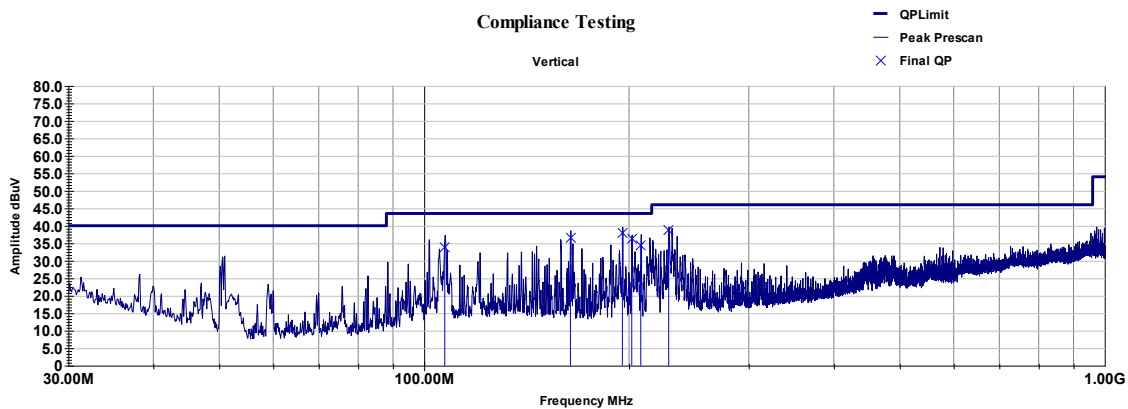


RF Antenna 2

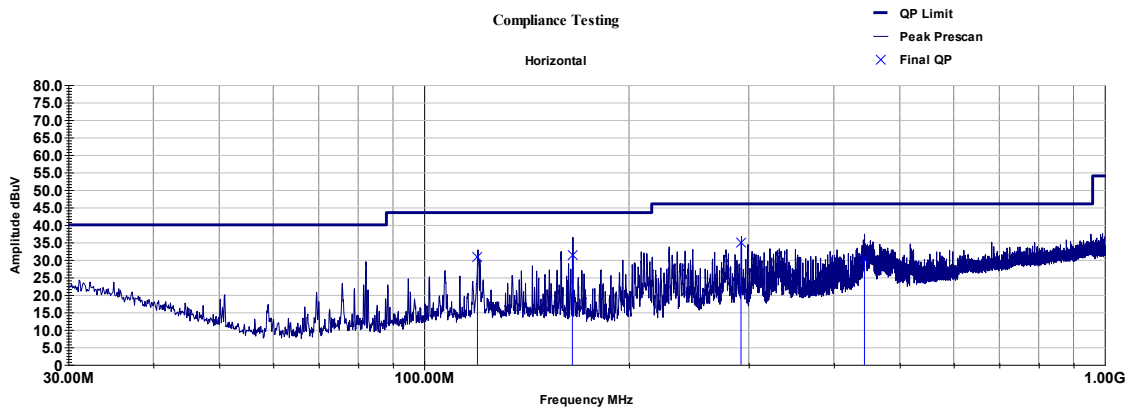


Radiated Plots

30-1000 MHz



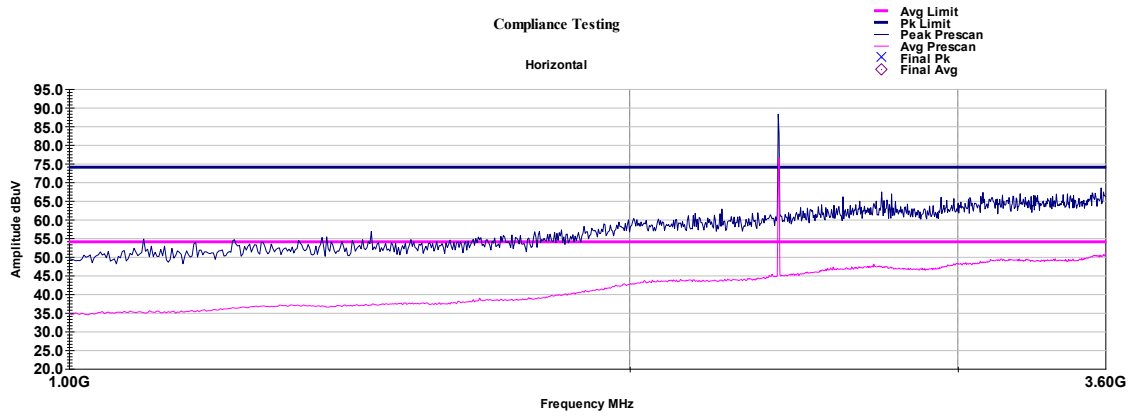
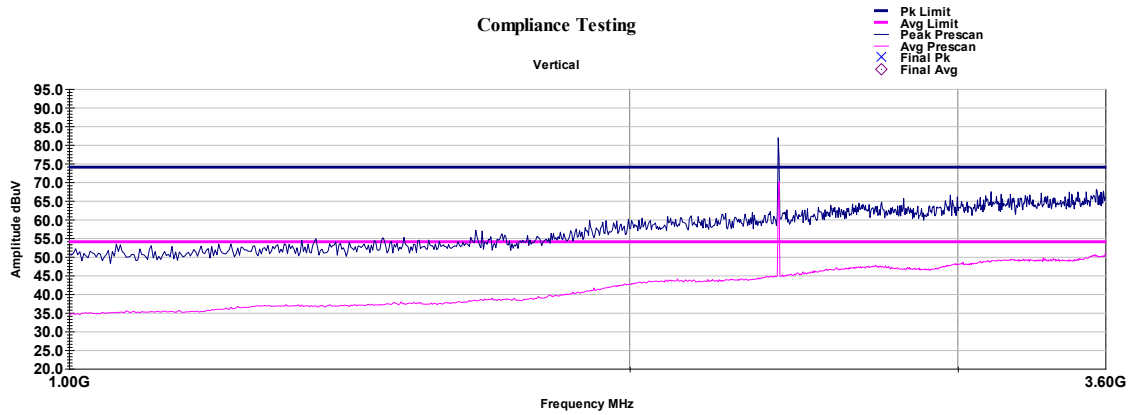
Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
107.23	198.00	100.00	53.02	-19.16	33.90	43.50	-9.60
164.041	82.00	100.00	56.57	-19.89	36.70	43.50	-6.80
195.528	76.00	100.00	58.68	-20.81	37.90	43.50	-5.60
201.885	117.00	100.00	56.66	-20.46	36.20	43.50	-7.30
208.083	123.00	105.00	54.53	-20.12	34.40	43.50	-9.10
228.771	257.00	106.00	58.13	-19.26	38.90	46.00	-7.10
Final = Raw + Path Loss							
Margin = Final - Limit							



Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
119.765	171.00	325.00	50.03	-19.16	30.90	43.50	-12.60
165.108	201.00	325.00	51.67	-20.30	31.40	43.50	-12.10
292.184	24.00	118.00	51.56	-16.62	34.90	46.00	-11.10
443.607	88.00	100.00	42.69	-12.41	30.30	46.00	-15.70
Final = Raw + Path Loss							
Margin = Final - Limit							

1 – 3.6 GHz Range

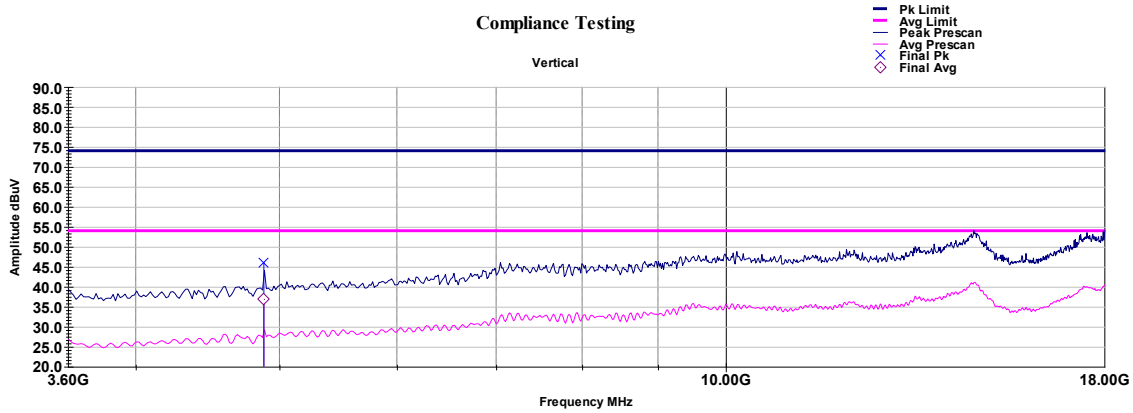
RF Antenna 1



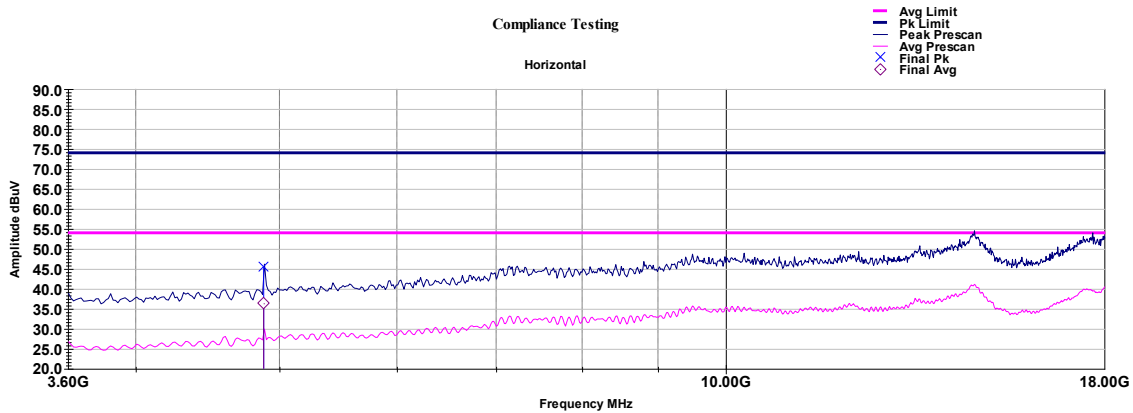
*BLE Fundamental

3.6 - 18 GHz Range

RF Antenna 1

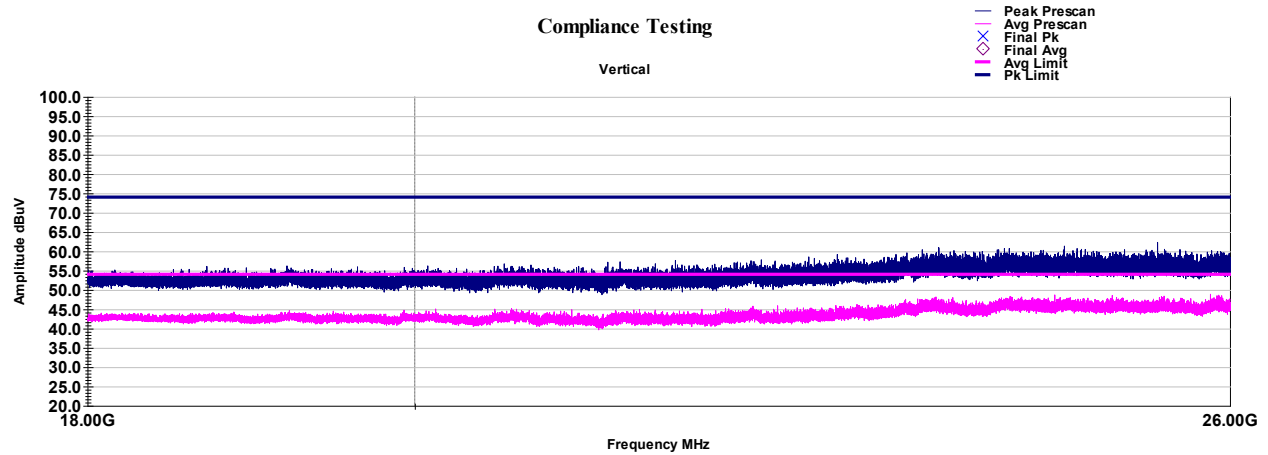
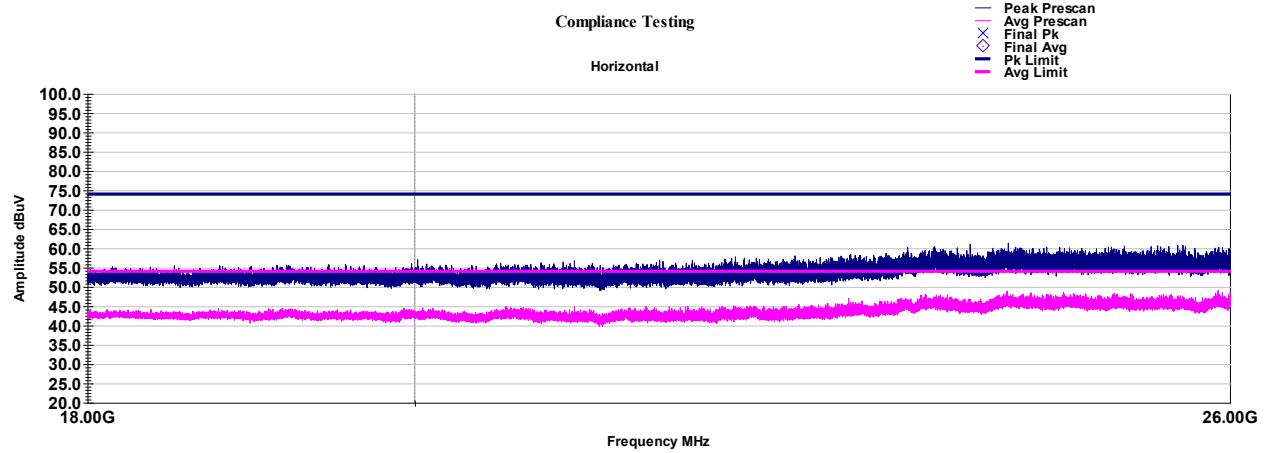


Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4880556000	187.00	114.00	49.63	40.60	-3.66	45.97	74.00	-28.03	36.94	54	-17.06
Final = Raw + Path Loss											
Margin = Final - Limit											



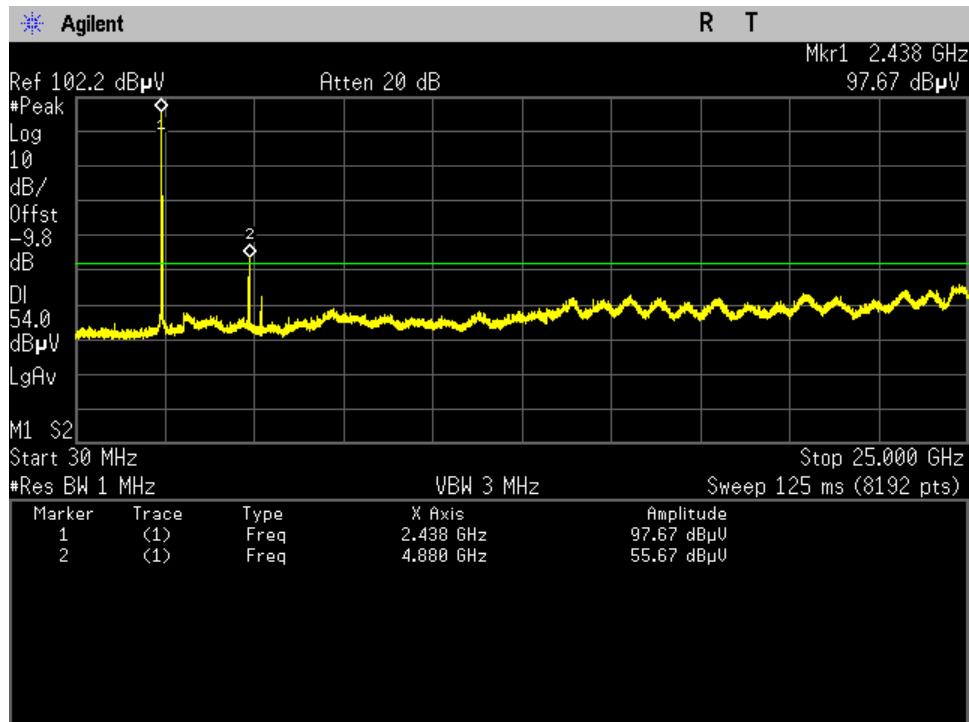
Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4879400000	104.00	106.00	49.05	40.02	-3.65	45.40	74.00	-28.60	36.37	54	-17.63
Final = Raw + Path Loss											
Margin = Final - Limit											

18 - 26 GHz Range

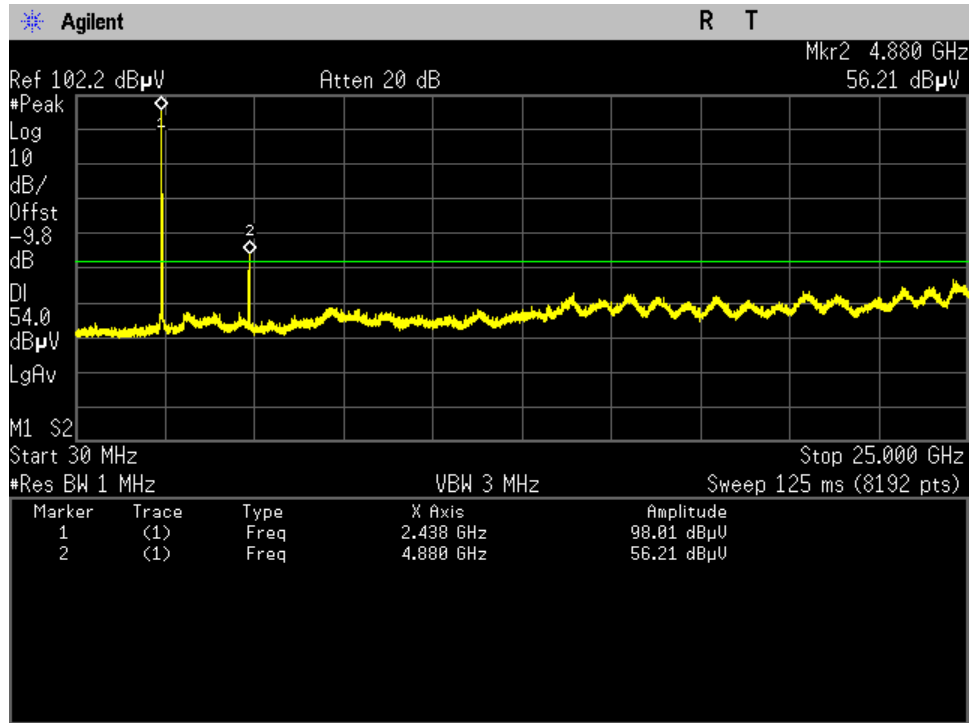


Mid Channel

RF Antenna 1

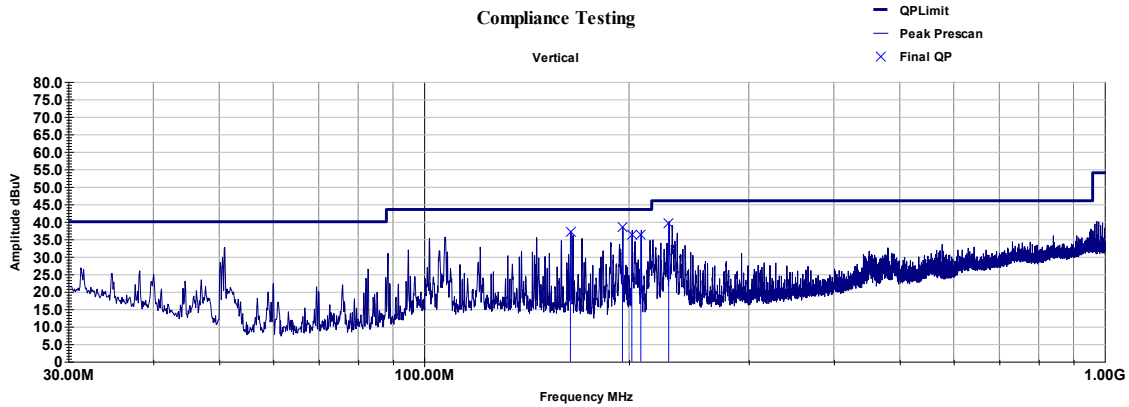


RF Antenna 2

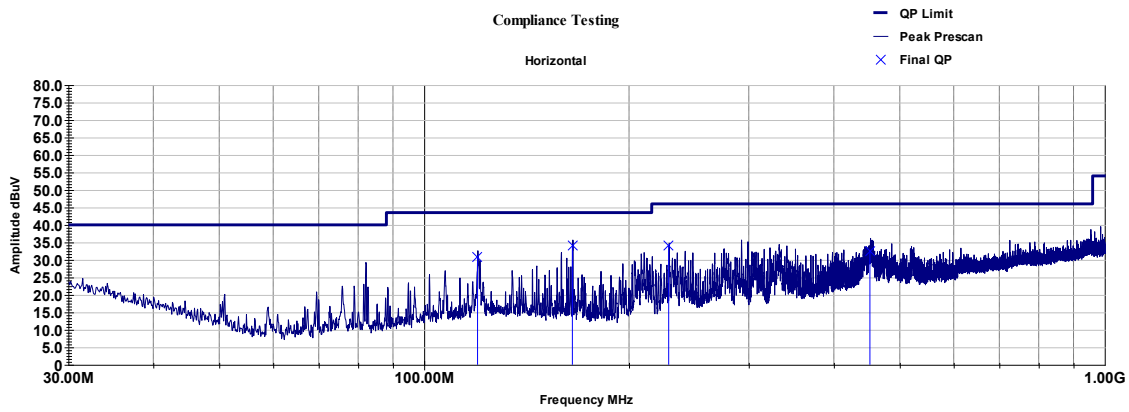


Radiated Plots

30-1000 MHz



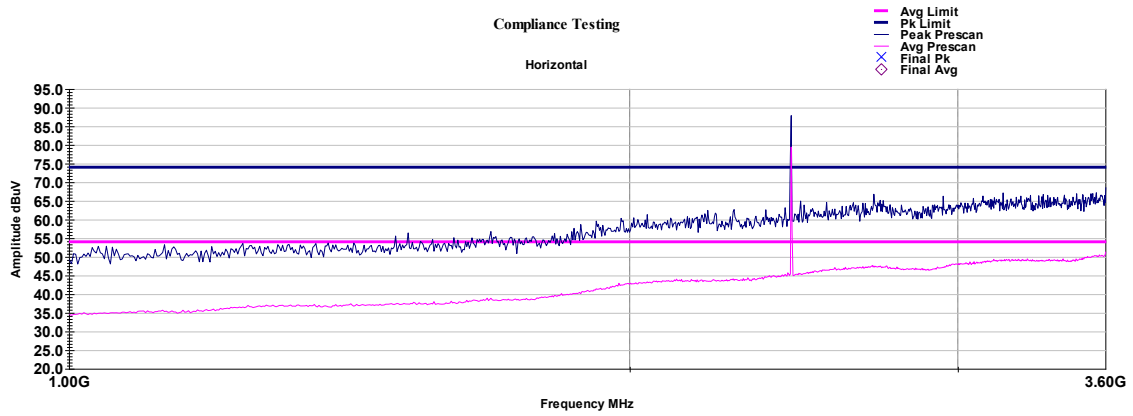
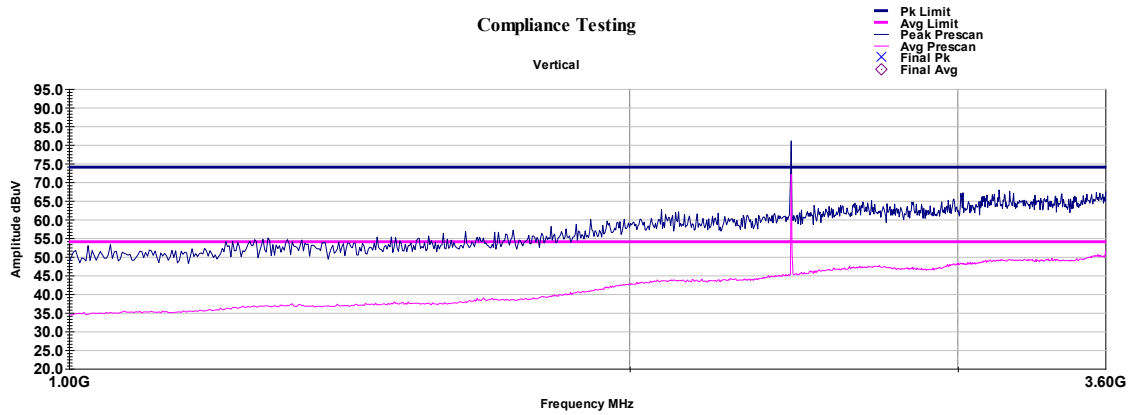
Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
164.041	76.00	106.00	57.10	-19.89	37.20	43.50	-6.30
195.623	102.00	100.00	59.29	-20.81	38.50	43.50	-5.00
201.923	150.00	100.00	56.79	-20.46	36.30	43.50	-7.20
208.193	197.00	100.00	56.50	-20.12	36.40	43.50	-7.10
228.757	262.00	100.00	58.87	-19.26	39.60	46.00	-6.40
Final = Raw + Path Loss							
Margin = Final - Limit							



Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
119.805	173.00	280.00	50.02	-19.16	30.90	43.50	-12.60
165.118	190.00	253.00	54.40	-20.30	34.10	43.50	-9.40
228.736	285.00	121.00	53.76	-19.68	34.10	46.00	-11.90
451.798	205.00	100.00	44.69	-12.21	32.50	46.00	-13.50
Final = Raw + Path Loss							
Margin = Final - Limit							

1 – 3.6 GHz Range

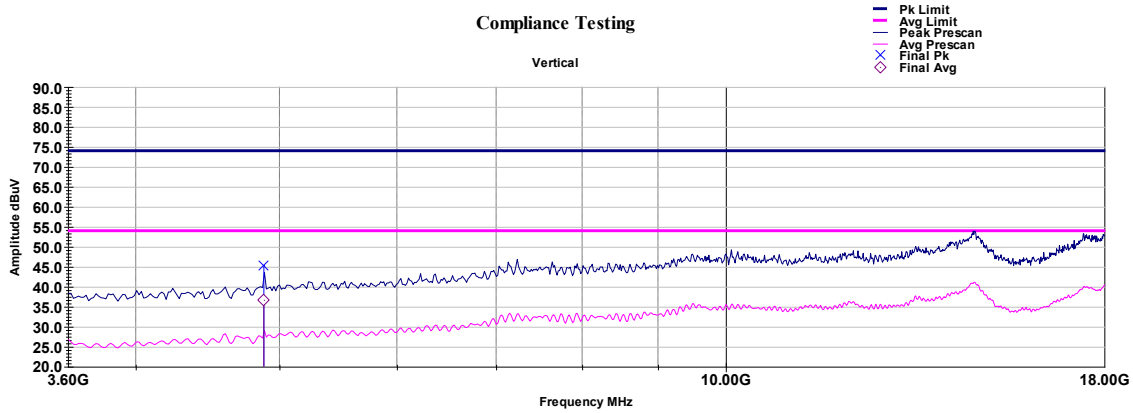
RF Antenna 1



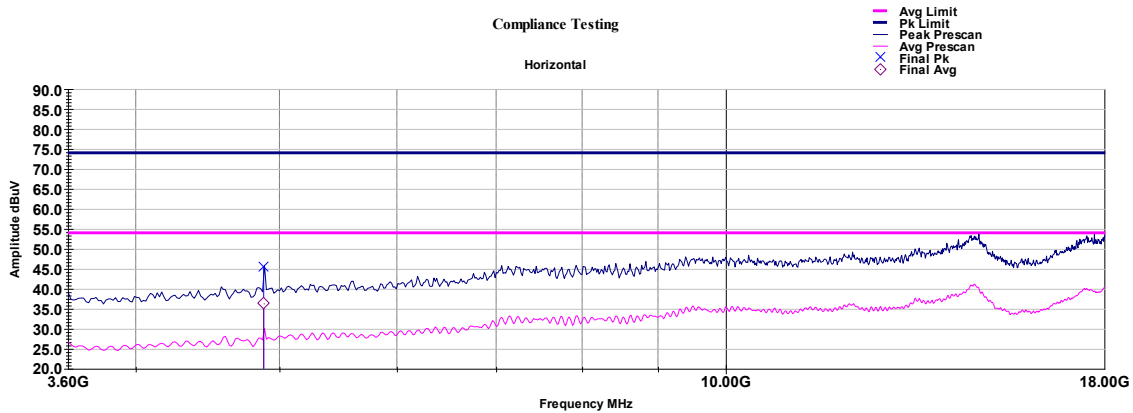
*BLE Fundamental

3.6 - 18 GHz Range

RF Antenna 1

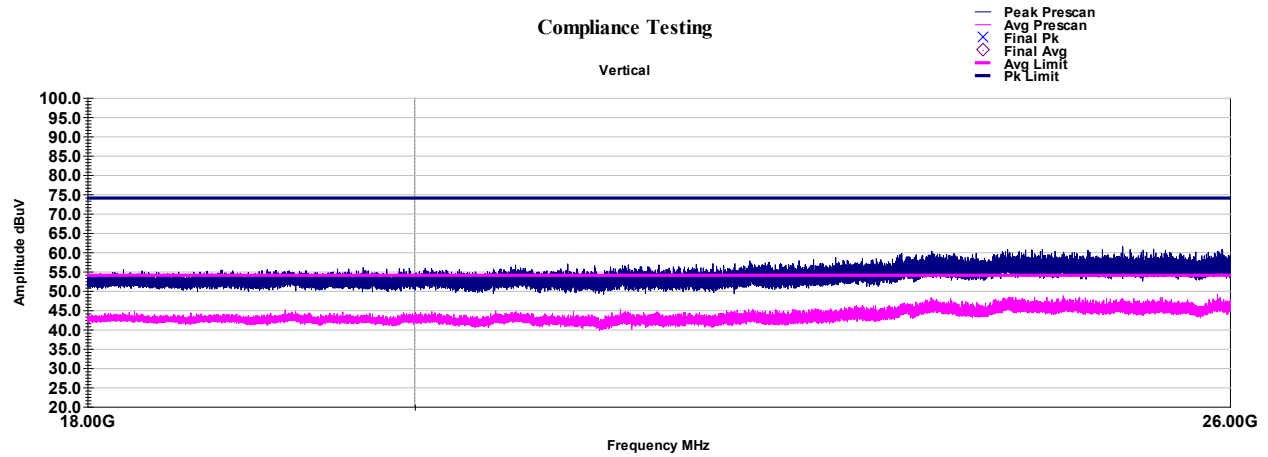
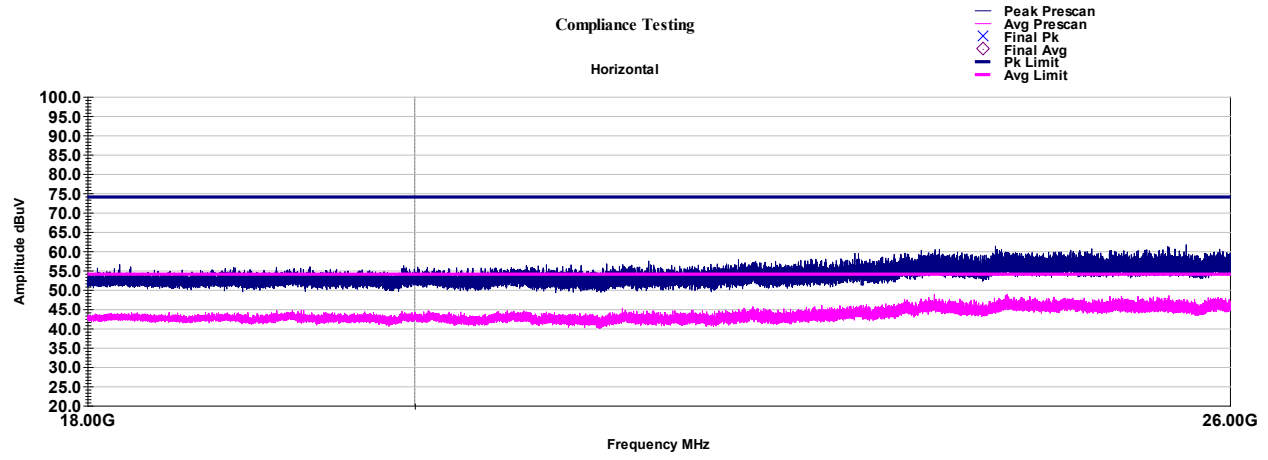


Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4880323000	198.00	114.00	49.04	40.37	-3.65	45.38	74.00	-28.62	36.71	54	-17.29
Final = Raw + Path Loss											
Margin = Final - Limit											



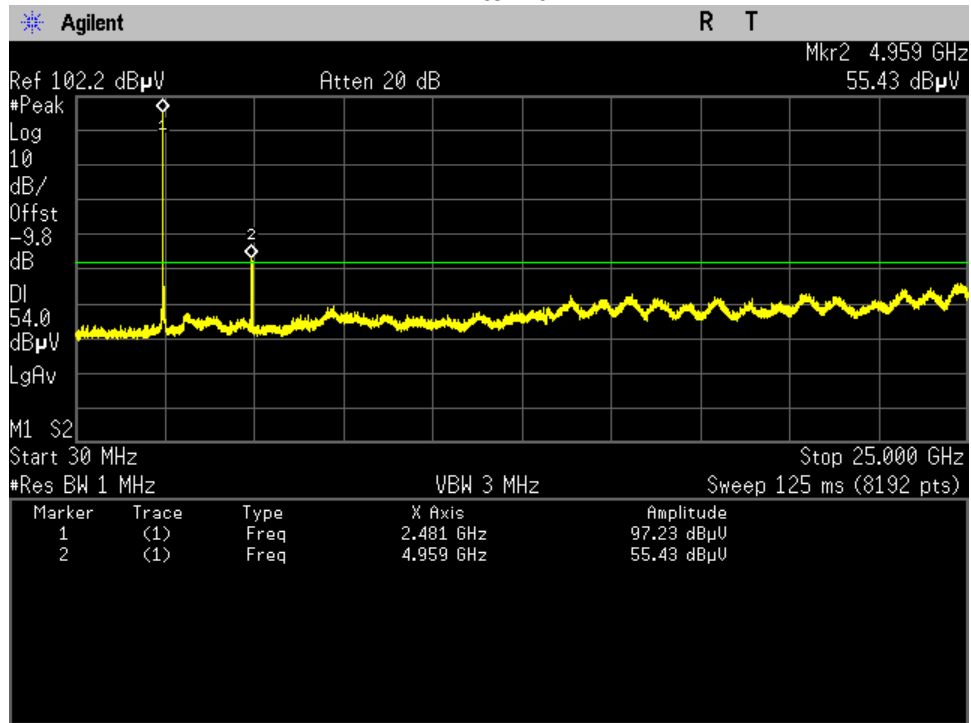
Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4879427000	106.00	100.00	49.12	39.99	-3.65	45.47	74.00	-28.53	36.34	54	-17.66
Final = Raw + Path Loss											
Margin = Final - Limit											

18 - 26 GHz Range

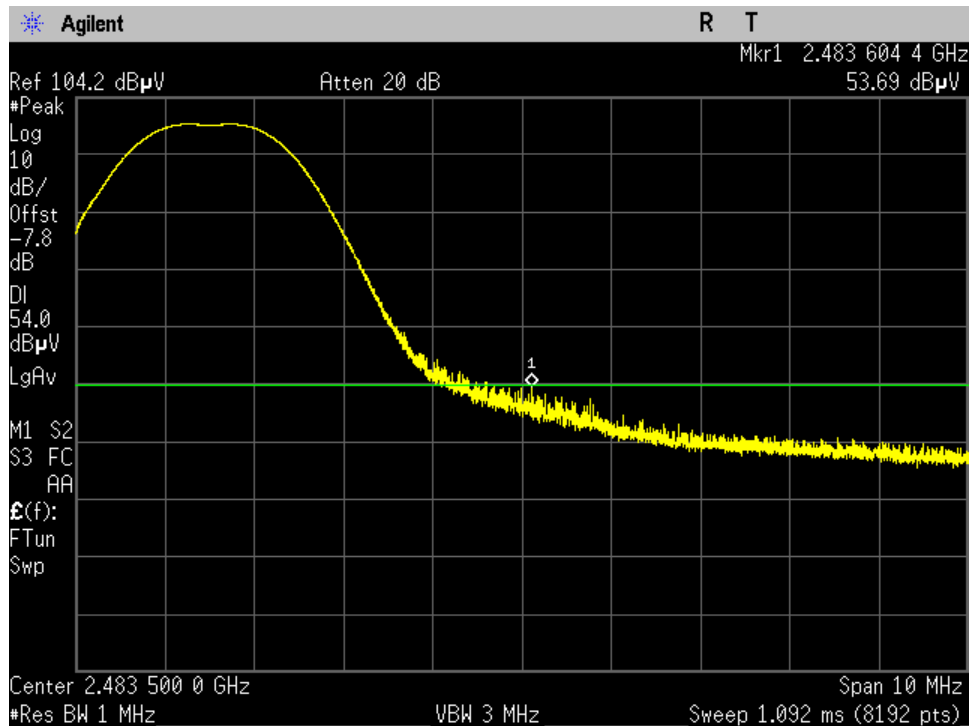
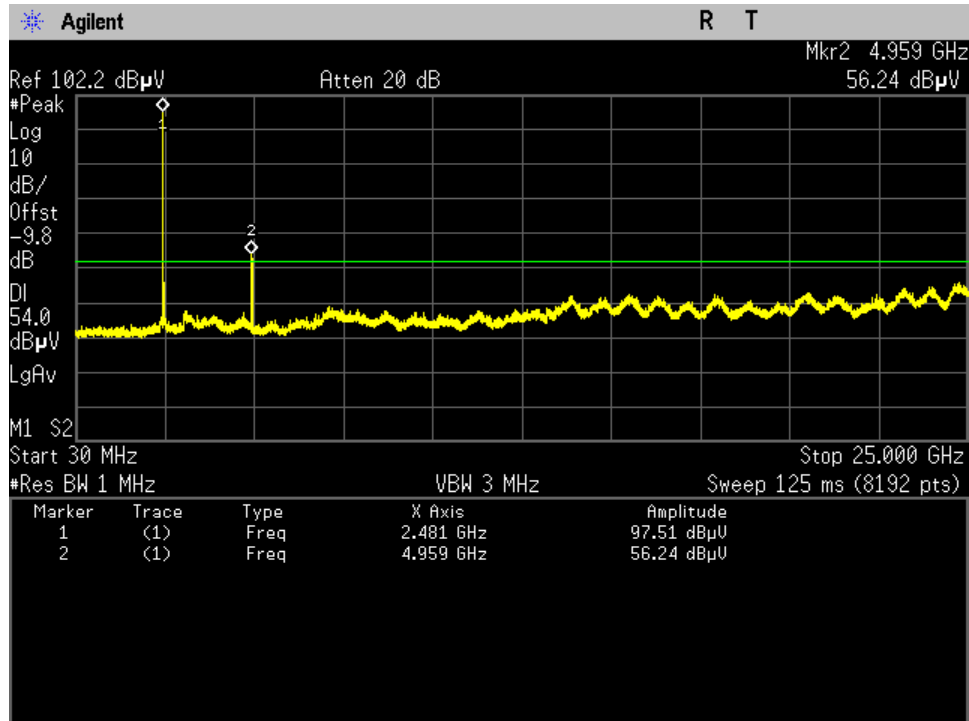


High Channel

RF Antenna 1

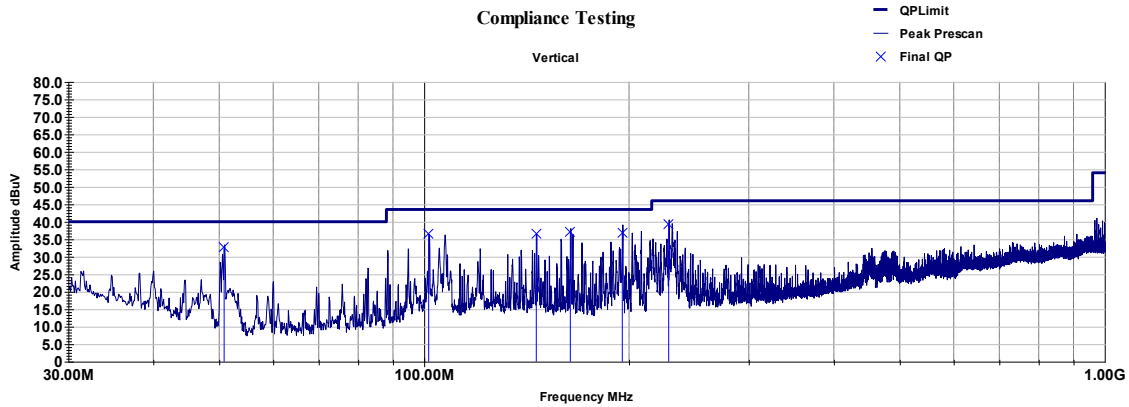


RF Antenna 2

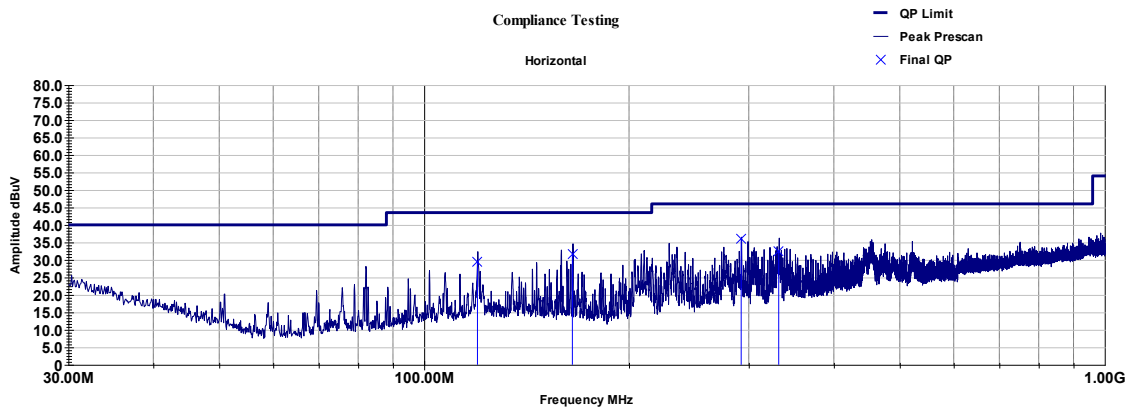


Radiated Plots

30-1000 MHz



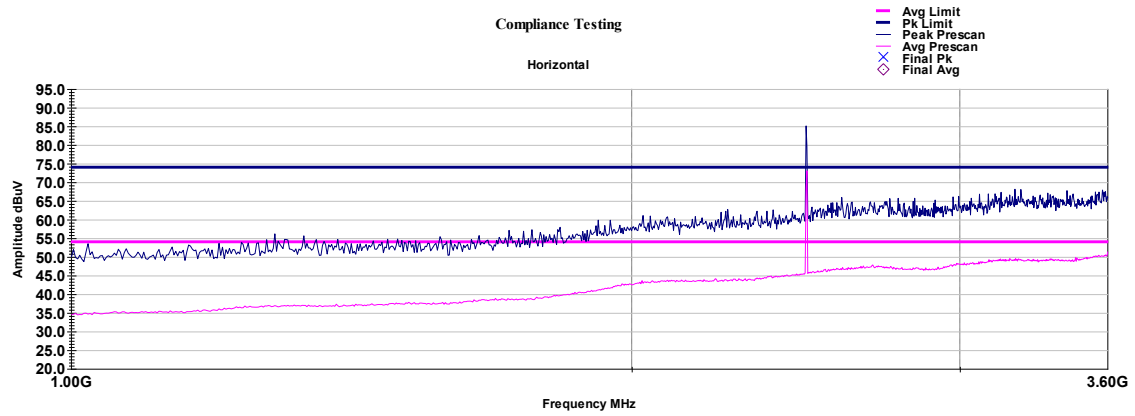
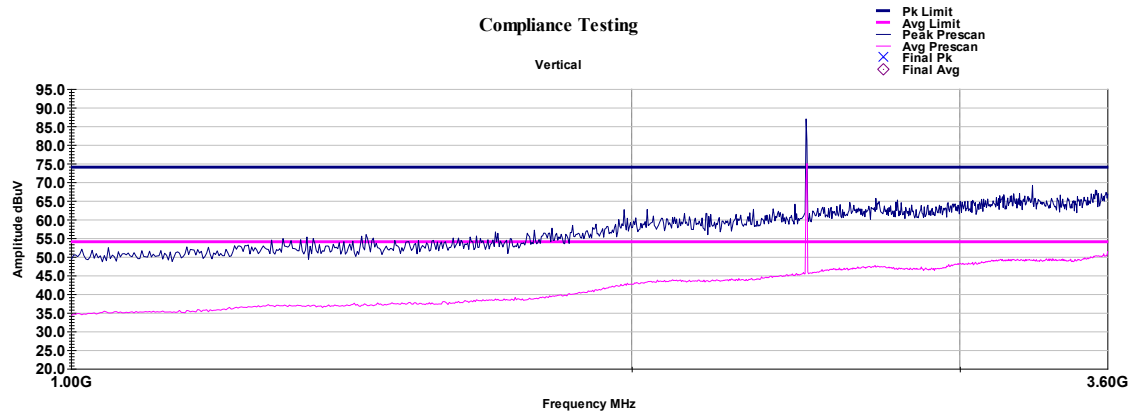
Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
50.834	160.00	100.00	56.77	-23.99	32.80	40.00	-7.20
101.546	77.00	138.00	56.01	-19.49	36.50	43.50	-7.00
146.116	325.00	100.00	54.83	-18.36	36.50	43.50	-7.00
163.966	91.00	100.00	56.97	-19.89	37.10	43.50	-6.40
195.522	77.00	100.00	57.74	-20.81	36.90	43.50	-6.60
228.76	247.00	110.00	58.59	-19.26	39.30	46.00	-6.70
Final = Raw + Path Loss							
Margin = Final - Limit							



Frequency	Azimuth	Height	Raw QP	Correction	Final QP	Limit	QP Margin
MHz	deg	cm	dBuV	dB	dBuV/m	dBuV/m	dB
119.785	200.00	325.00	48.57	-19.16	29.40	43.50	-14.10
165.134	200.00	325.00	51.85	-20.30	31.60	43.50	-11.90
292.316	41.00	137.00	52.52	-16.62	35.90	46.00	-10.10
331.914	229.00	129.00	47.84	-15.38	32.50	46.00	-13.50
Final = Raw + Path Loss							
Margin = Final - Limit							

1 – 3.6 GHz Range

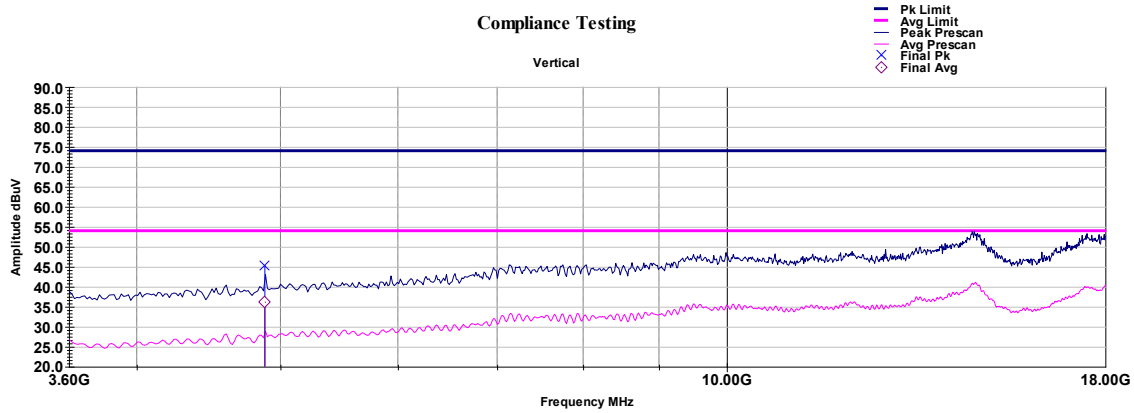
RF Antenna 2



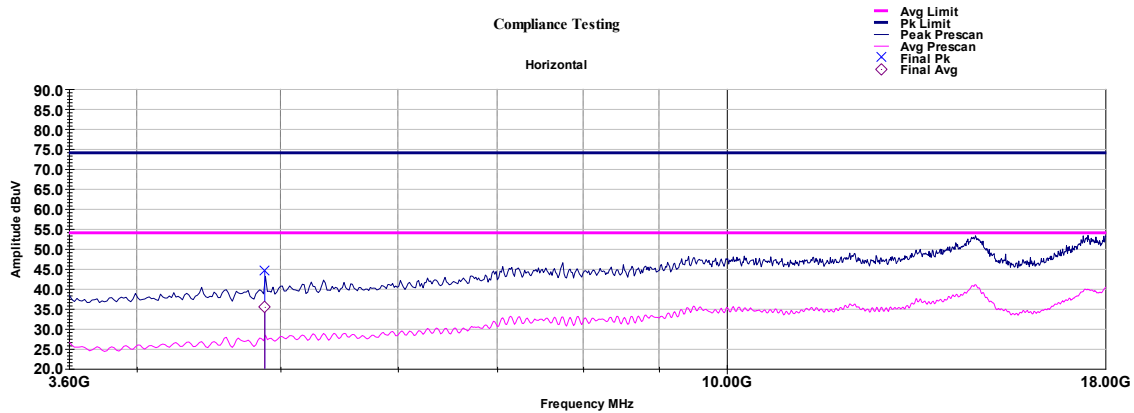
*BLE Fundamental

3.6 - 18 GHz Range

RF Antenna 2

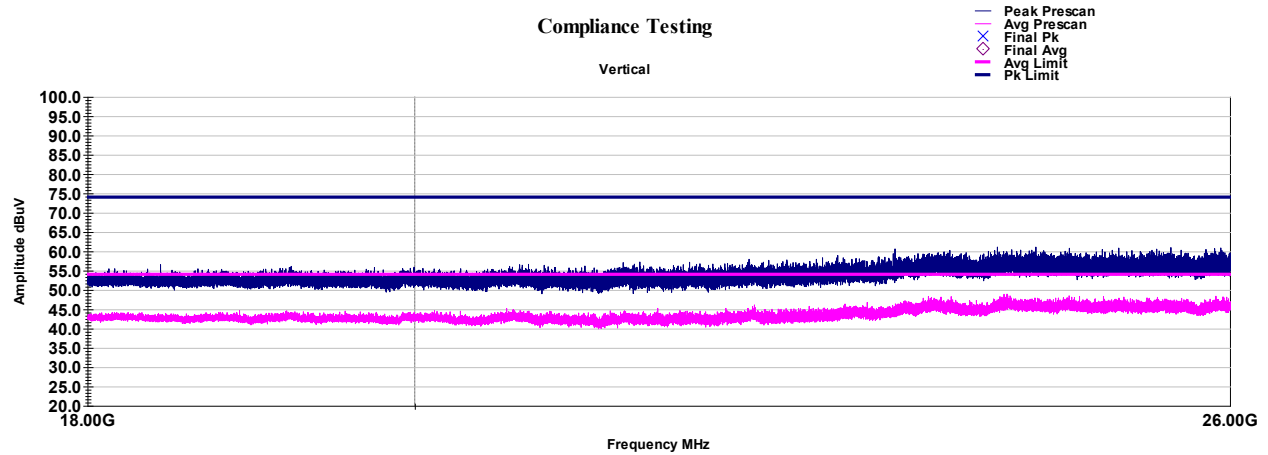
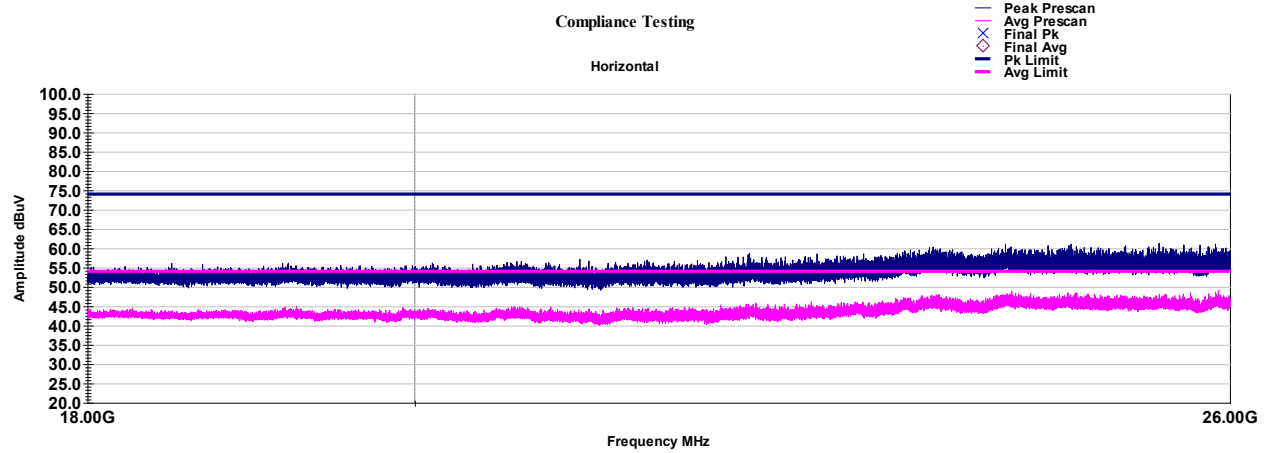


Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4880420000	47.00	100.00	48.93	39.89	-3.66	45.27	74.00	-28.73	36.24	54	-17.76
Final = Raw + Path Loss											
Margin = Final - Limit											



Frequency	Azimuth	Height	Raw Pk	Raw Avg	Correction	Final Pk	Pk Limit	Pk Margin	Final Avg	Avg Limit	Avg Margin
Hz	deg	cm	dBuV	dBuV	dB	dBuV/m	dBuV/m	dB	dBuV/m	dBuV/m	dB
4879565000	234.00	179.00	48.16	39.09	-3.65	44.51	74.00	-29.49	35.44	54	-18.56
Final = Raw + Path Loss											
Margin = Final - Limit											

18 - 26 GHz Range



Occupied Bandwidth

Engineer: Harshith Devaraja

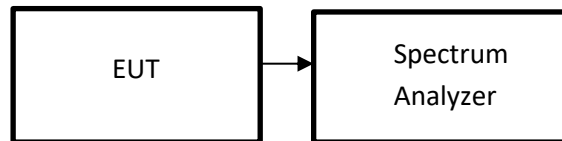
Test Date: 04/06/26

Test Procedure

Conducted Method

RF Antenna 1 and RF Antenna 2 sequentially, via a pigtail cable, were directly connected to the spectrum analyzer to verify that the EUT met the requirements for Occupied Bandwidth.

Test Setup



The Spectrum Analyzer was set to the following:

RBW = 1%-5% of the OWB

VBW $\geq 3 \times$ RBW

Peak Detector

Trace mode = max hold

Sweep = auto couple

Span = $(1.5 - 5) \times$ OBW

-6 dB Occupied Bandwidth Summary

RF Antenna 1

Frequency (MHz)	Measured Bandwidth (kHz)	Specification Limit (kHz)	Result
2402	582.192	> 500	Pass
2440	630.350	> 500	Pass
2480	707.318	> 500	Pass

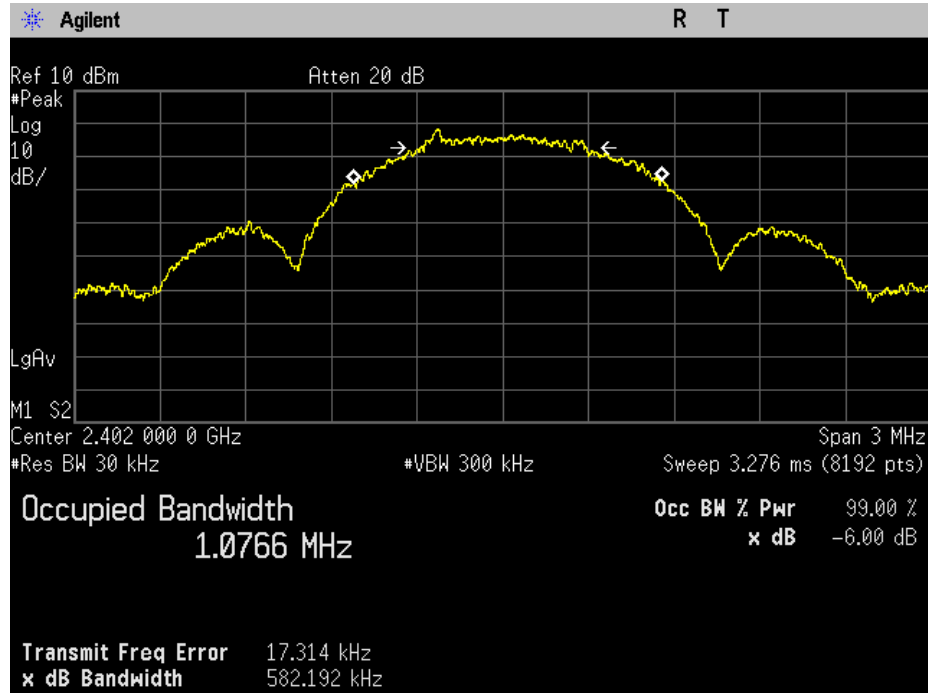
RF Antenna 2

Frequency (MHz)	Measured Bandwidth (kHz)	Specification Limit (kHz)	Result
2402	701.492	> 500	Pass
2440	608.979	> 500	Pass
2480	727.803	> 500	Pass

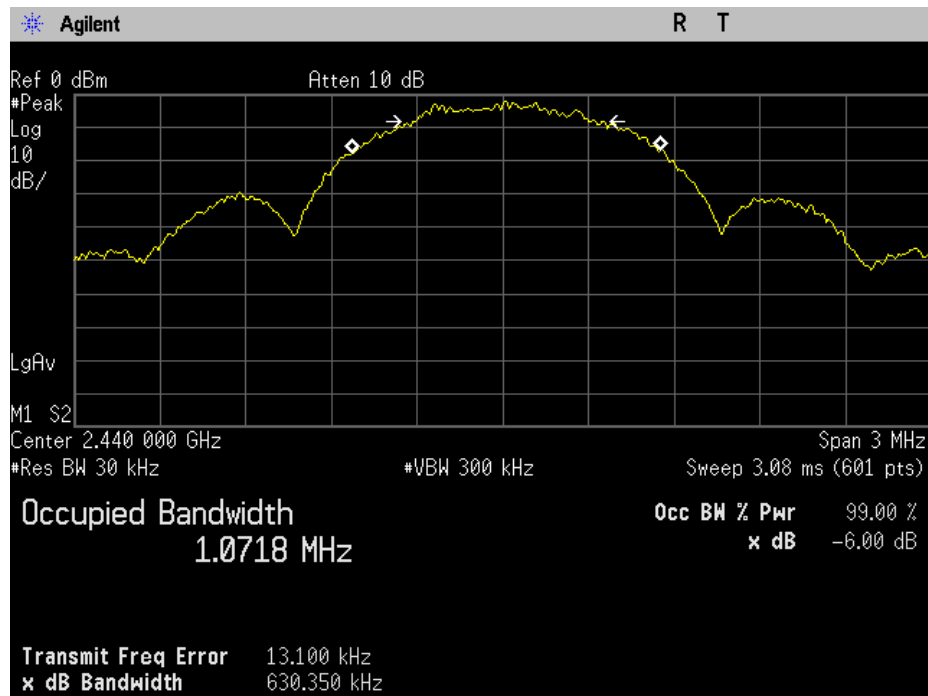
-6 dB and 99% Bandwidth Plots

RF Antenna 1

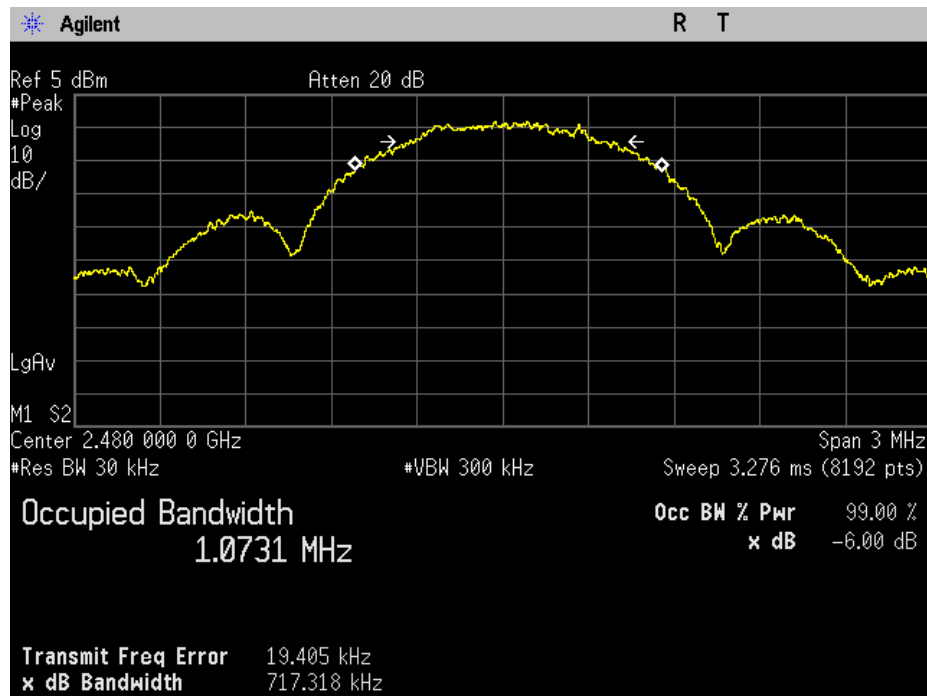
Low Channel



Mid channel

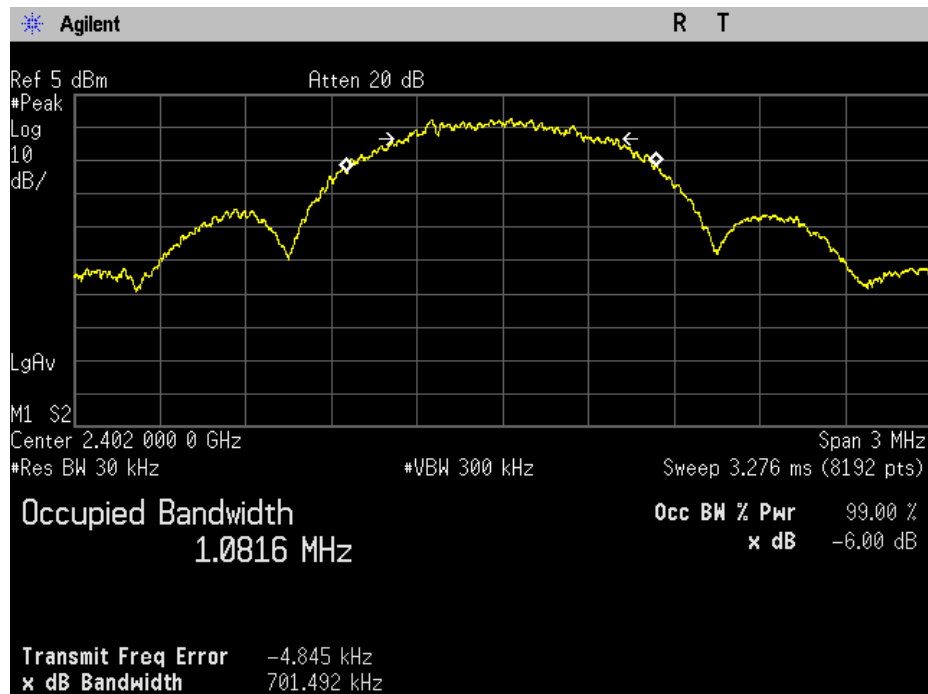


High channel

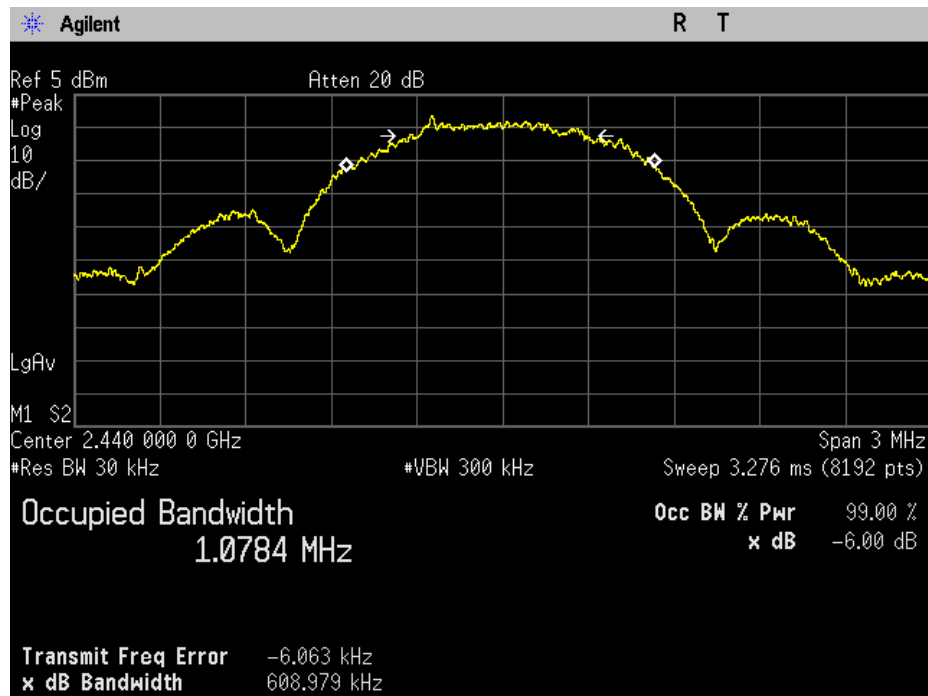


RF Antenna 2

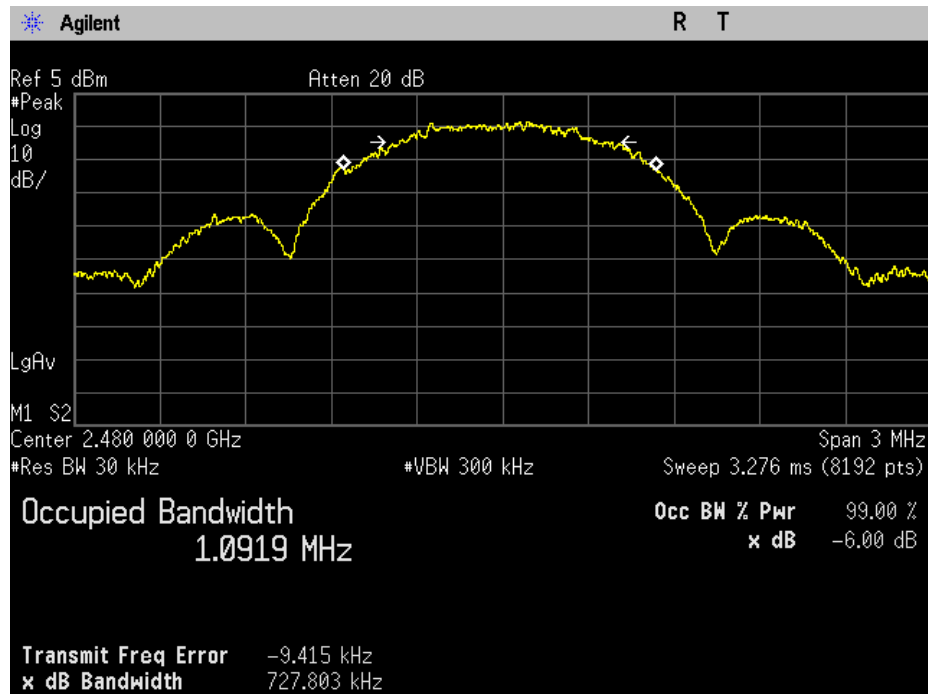
Low channel



Mid channel



High channel



Power Spectral Density

Engineer: Harshith Devaraja

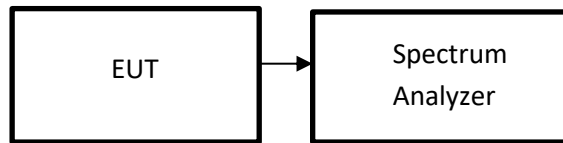
Test Date: 04/06/26

Test Procedure

Conducted Method

RF Antenna 1 and RF Antenna 2 sequentially, via a pigtail cable, were directly connected to the spectrum analyzer to verify that the EUT met the requirements for power spectral density.

Test Setup



The Spectrum Analyzer was set to the following:

RBW = 3 kHz

VBW $\geq 3 \times$ RBW

Peak Detector

Trace mode = max hold

Sweep = auto couple

Span $> 1.5 \times$ OBW

Power Spectral Density Summary

RF Antenna 1

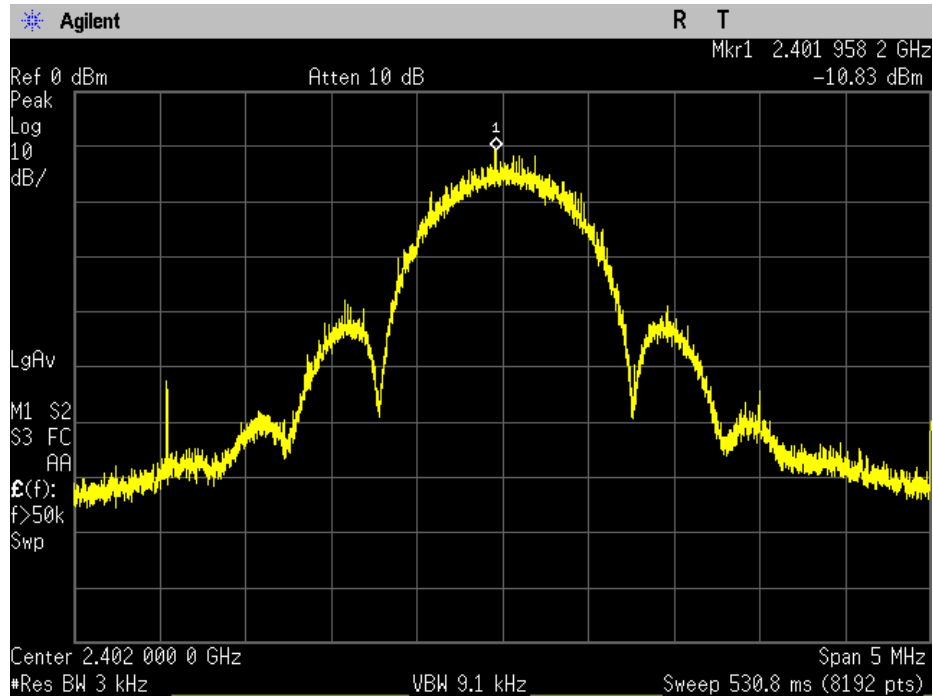
Frequency (MHz)	PSD (dBm/3kHz)	Specification Limit (dBm/3kHz)	Result
2402	-10.83	8	Pass
2440	-10.54	8	Pass
2480	-10.82	8	Pass

RF Antenna 2

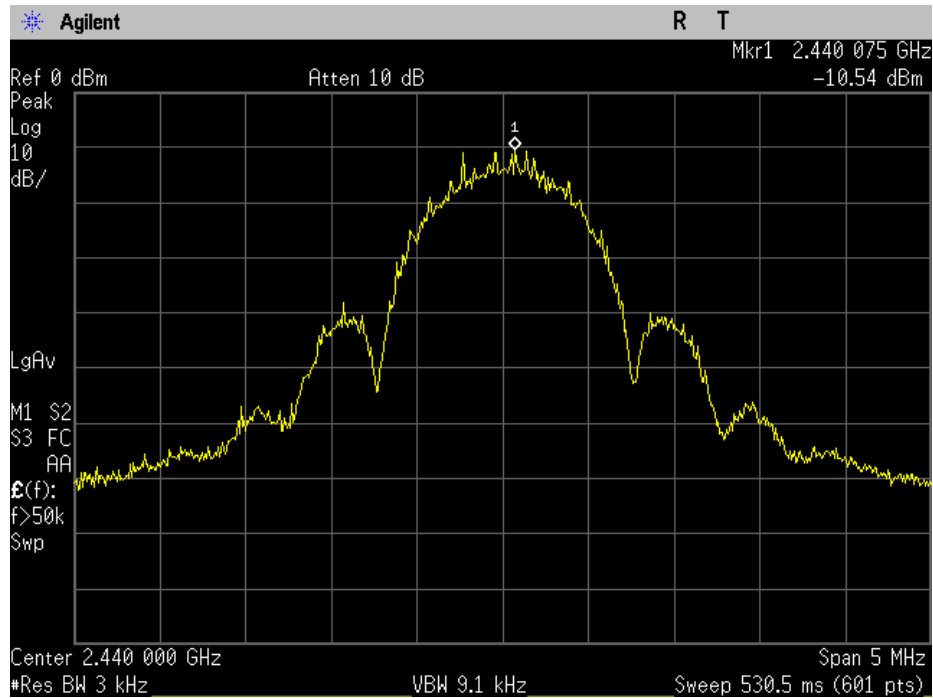
Frequency (MHz)	PSD (dBm/3kHz)	Specification Limit (dBm/3kHz)	Result
2402	-11.16	8	Pass
2440	-8.85	8	Pass
2480	-10.09	8	Pass

PSD Plots

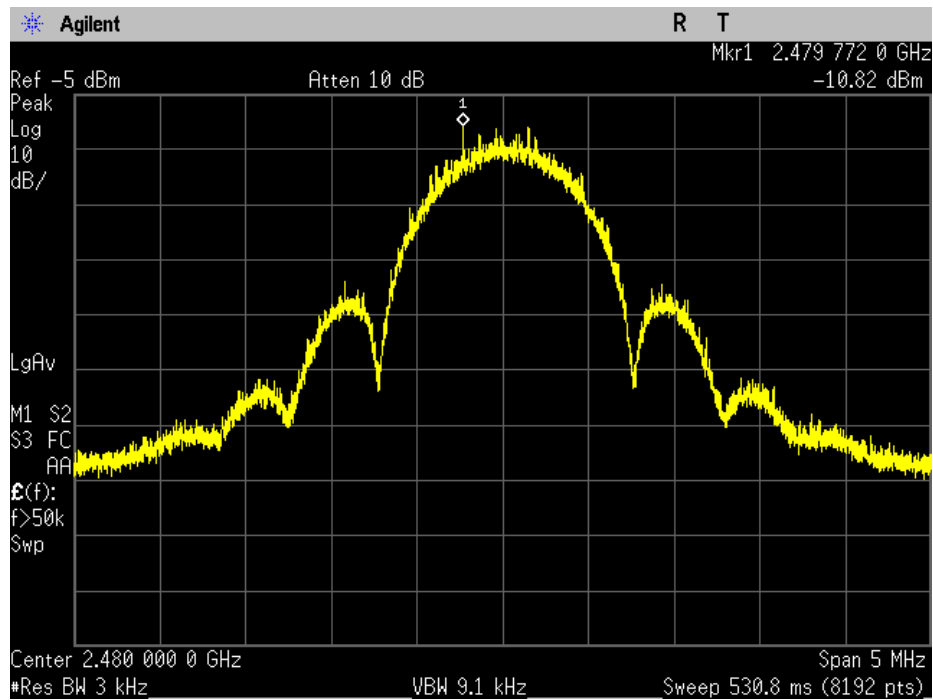
RF Antenna 1 Low channel



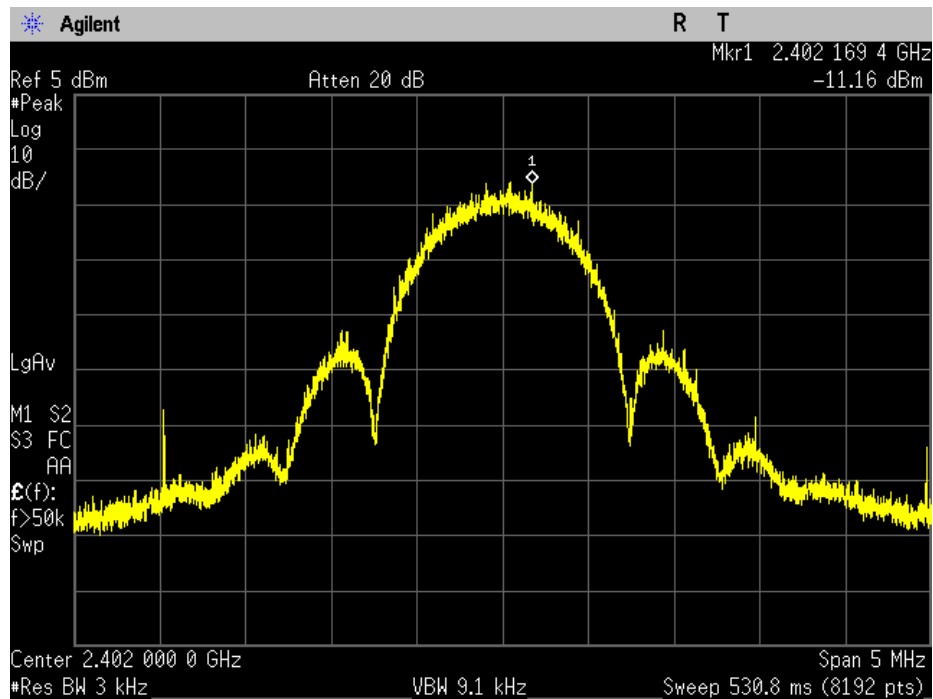
Mid channel



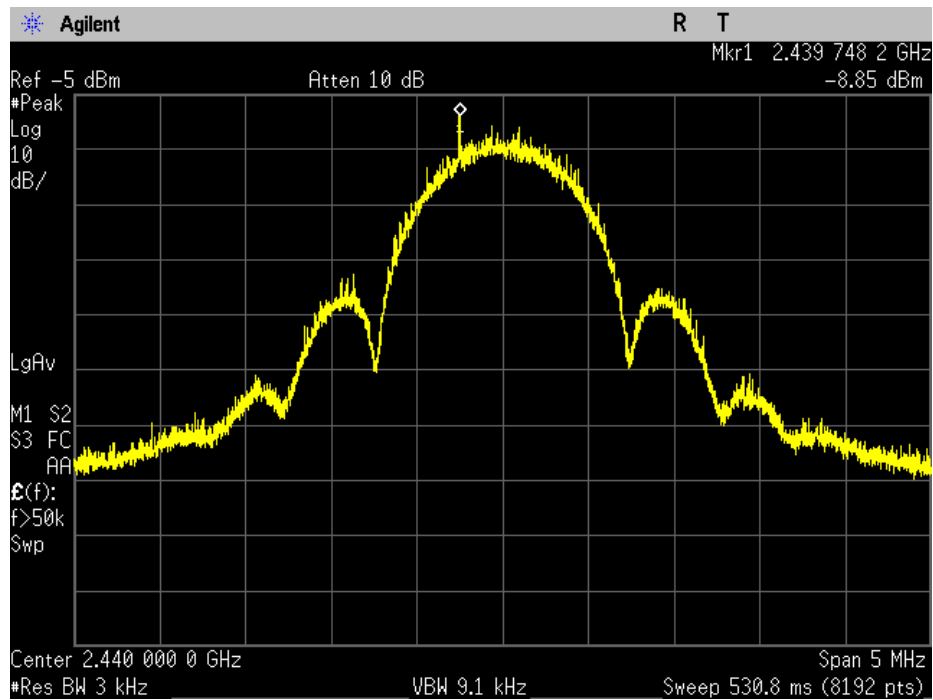
High channel



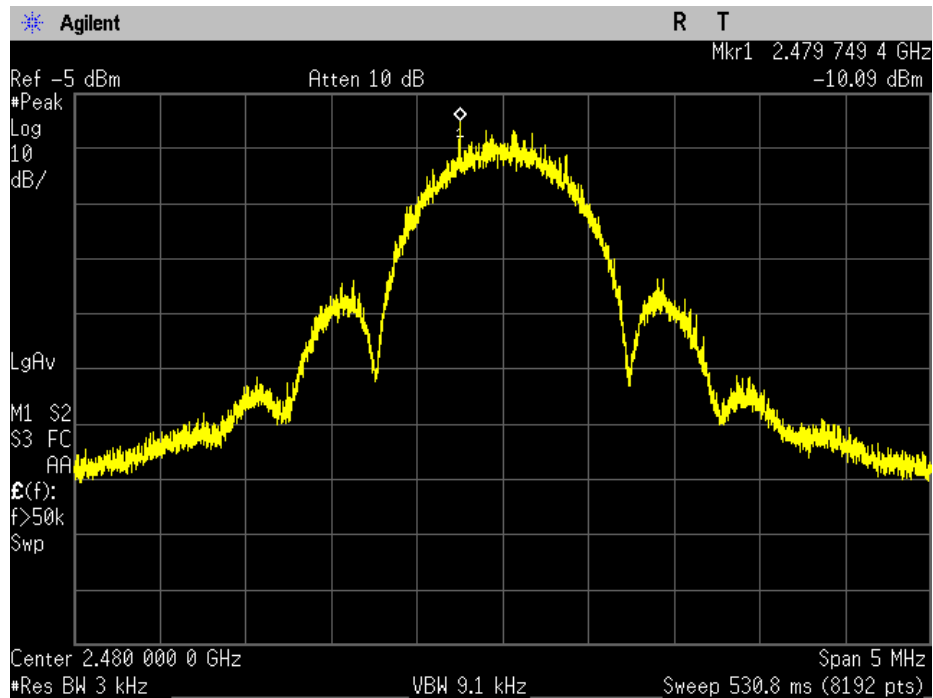
RF Antenna 2 Low channel



Mid channel



High channel



Conducted Spurious Emissions

Engineer: Harshith Devaraja

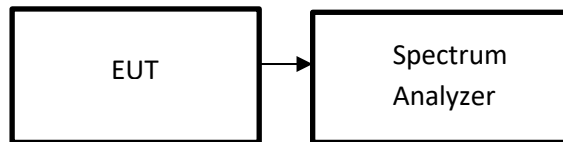
Test Date: 04/06/26

Test Procedure

Conducted Method

RF Antenna 1 and RF Antenna 2 sequentially, via a pigtail cable, were directly connected to the spectrum analyzer to verify that the EUT met the requirements for out of band emission in the 100 kHz bandwidth.

Test Setup



The Spectrum Analyzer was set to the following:

RBW = 100 kHz

VBW $\geq 3 \times$ RBW

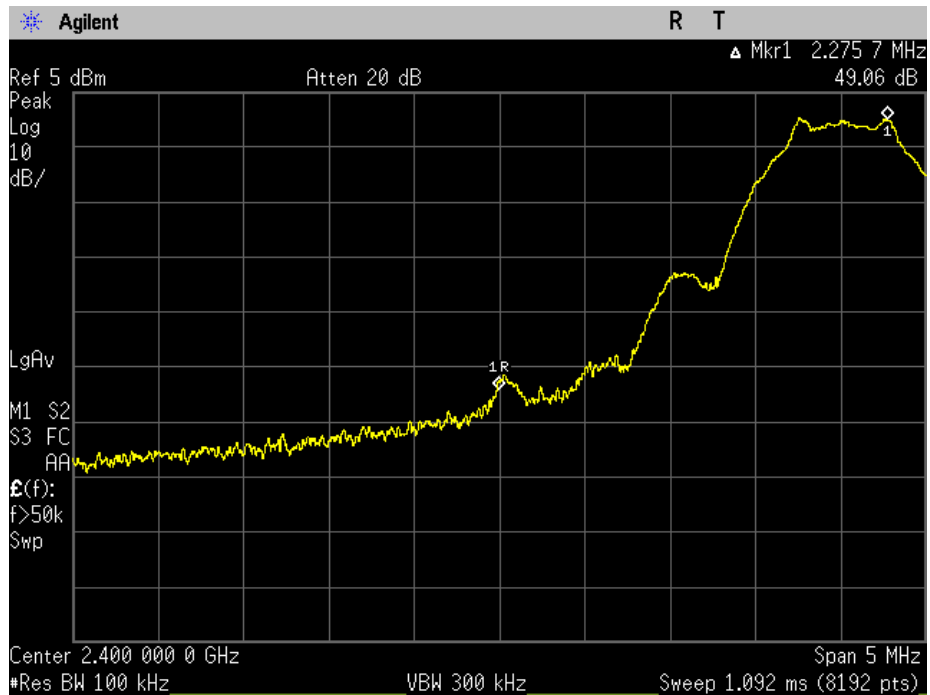
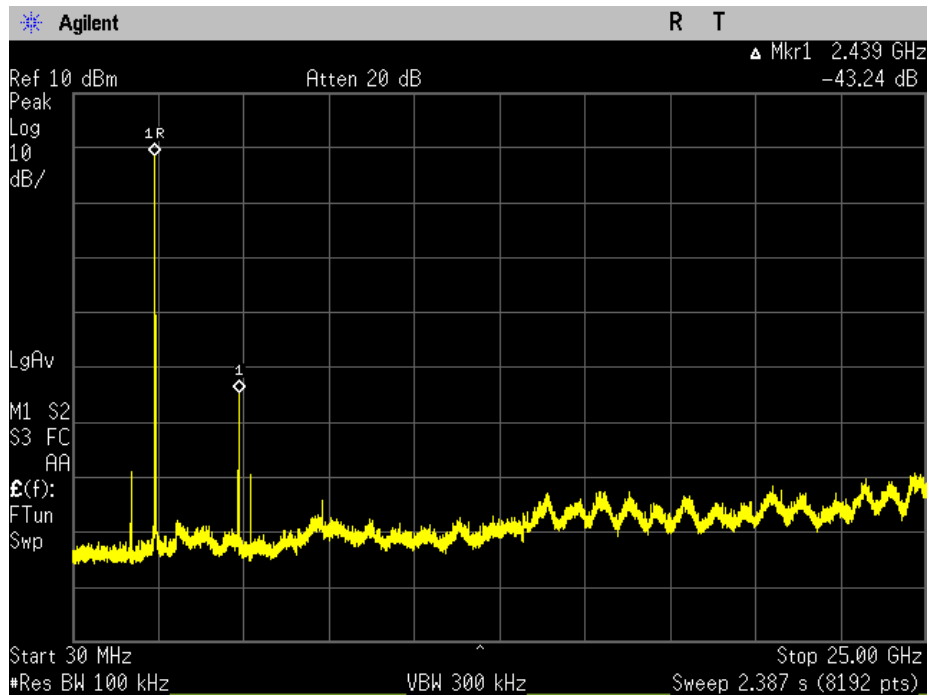
Peak Detector

Trace mode = max hold

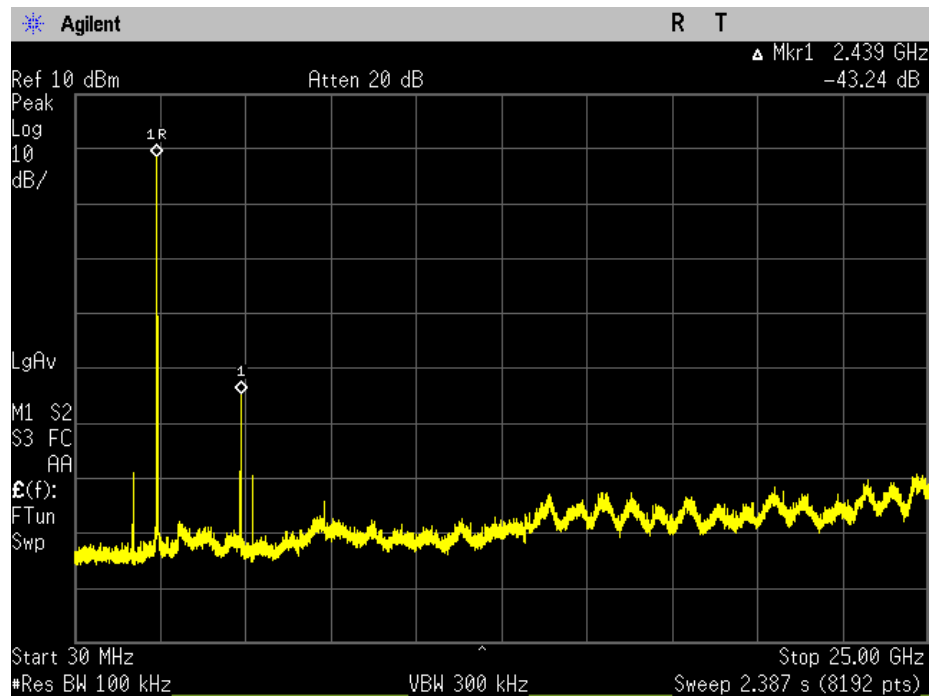
Sweep = auto couple

Conducted Spurious emission plots

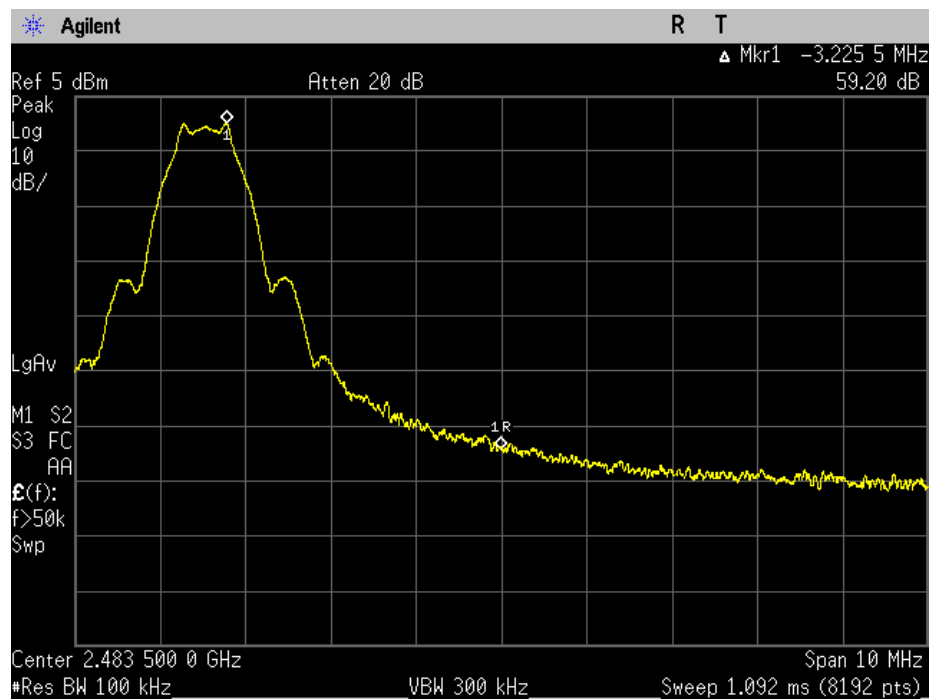
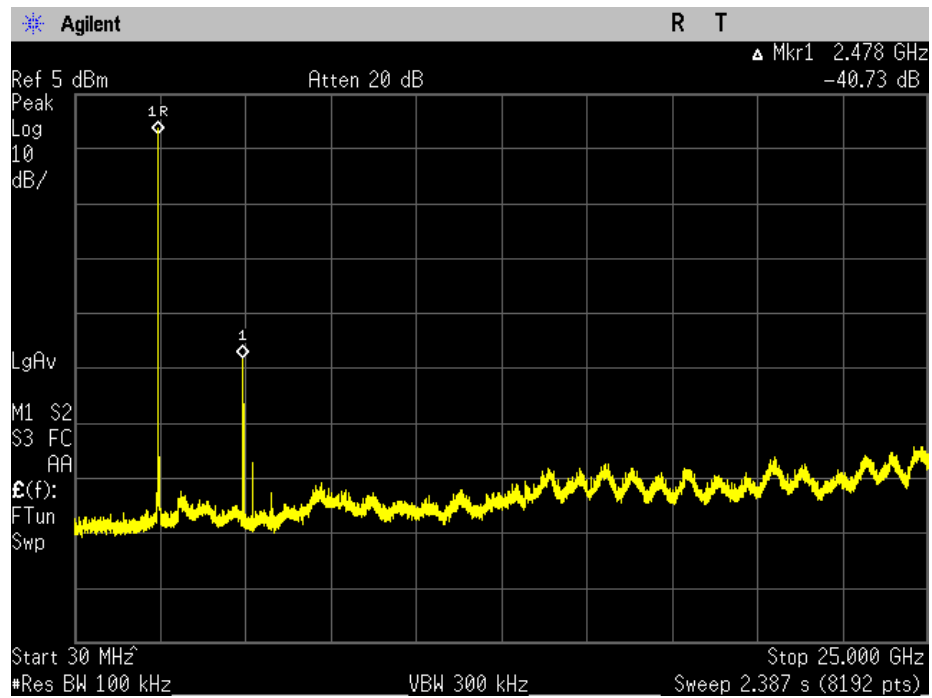
RF Antenna 1 Low channel



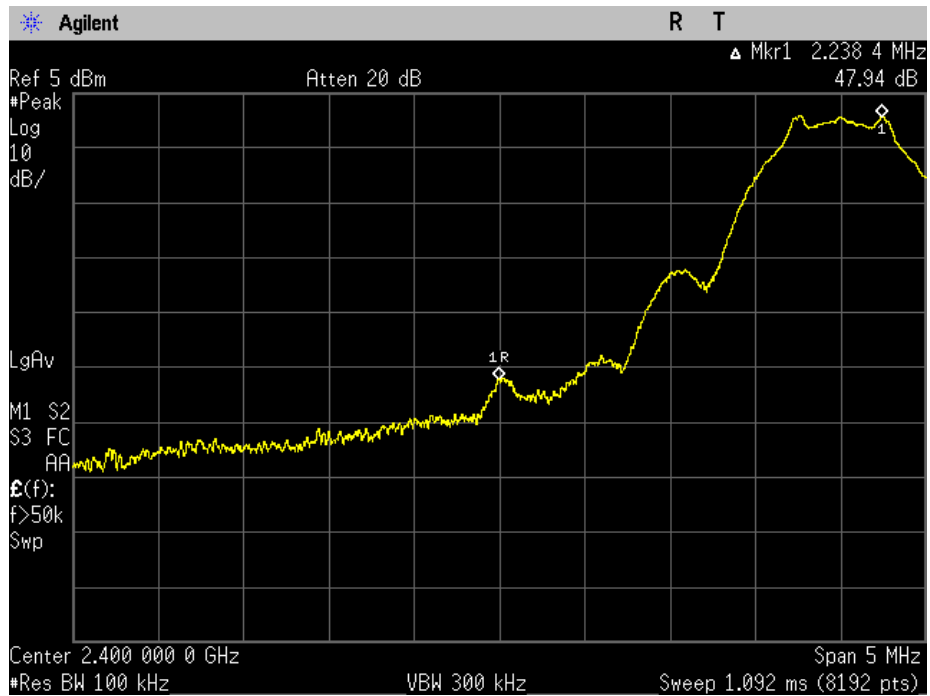
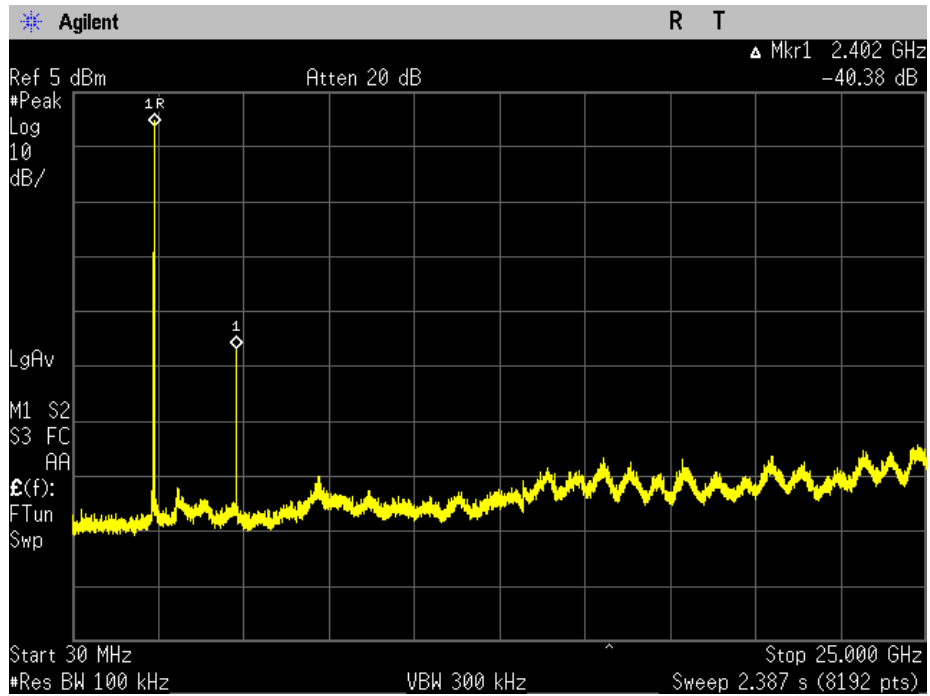
Mid channel



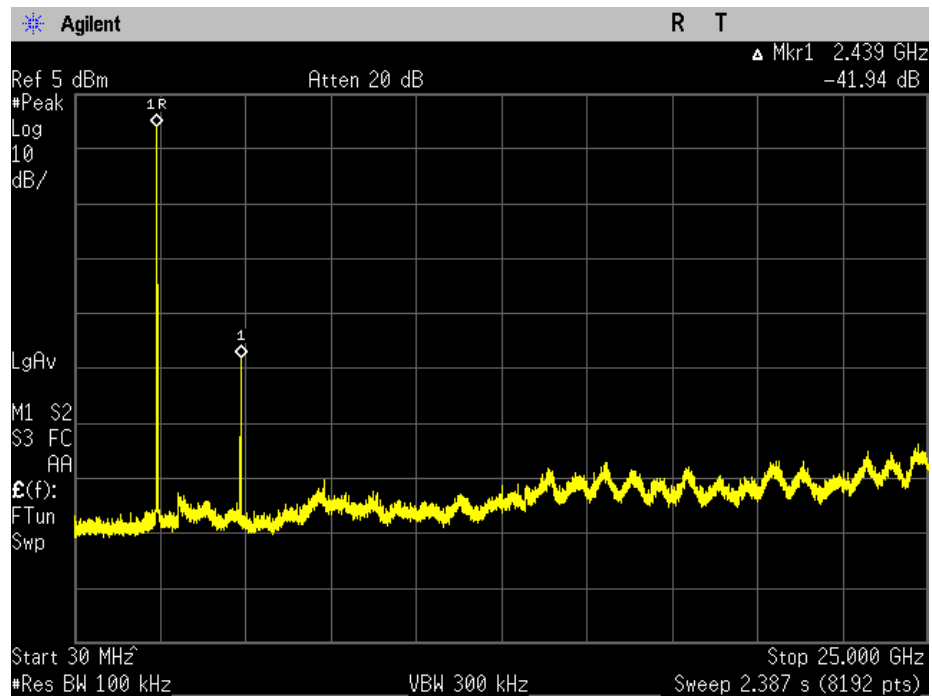
High channel



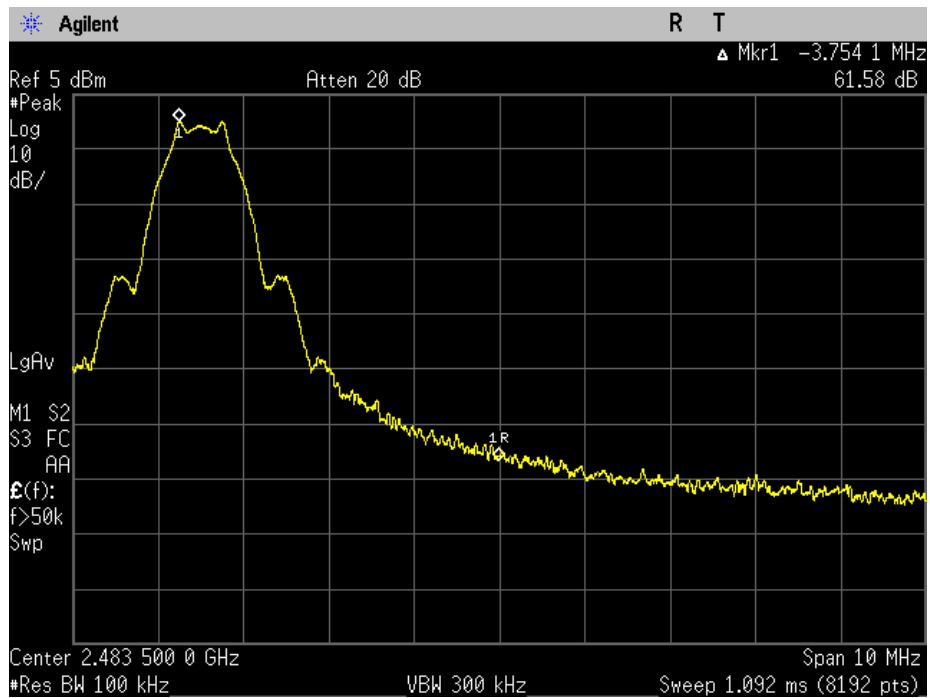
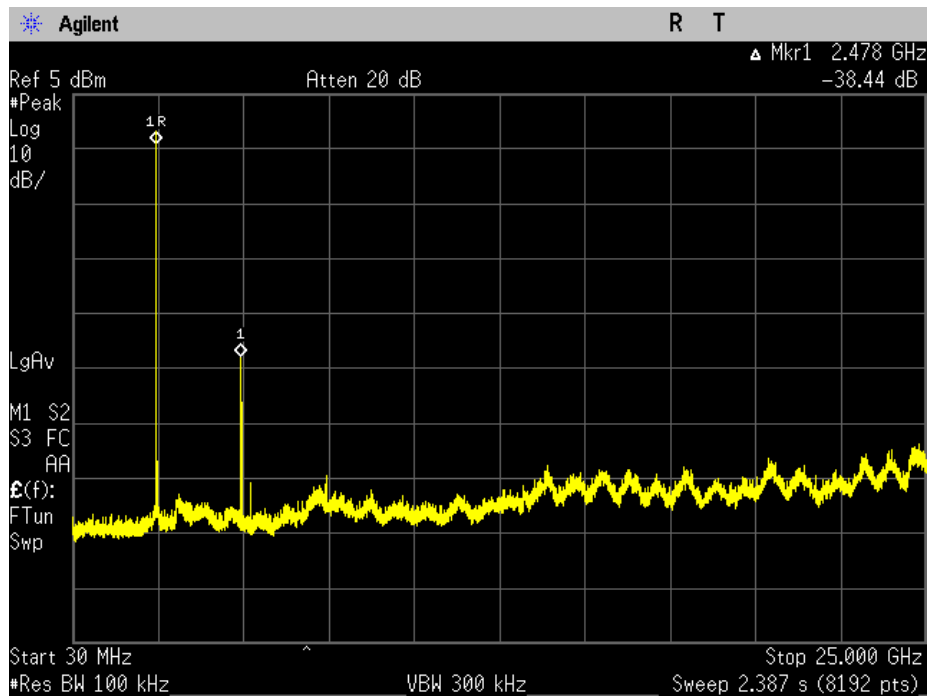
RF Antenna 2 Low channel



Mid channel



High channel



Test Equipment Utilized

Description	Manufacturer	Model #	CT Asset #	Last Cal Date	Cal Due Date
Horn Antenna (1-18GHz)	ARA	DRG-118/A	i00271	8/9/24	8/9/26
Horn Antenna (18-40 Ghz)	EMCO	3116	I00085	3/18/25	3/18/27
Bi-Log Antenna	Schaffner	CBL 6111D	i00349	2/27/25	2/27/27
3 Meter Semi-Anechoic Chamber	Panashield	3 Meter Semi-Anechoic Chamber	i00428	7/13/23	7/13/26
44GHz EMI receiver	Keysight	N9038A	i00552	3/23/26	3/23/27
PSA Spectrum Analyzer	Agilent	E4448A	i00688	10/22/25	10/22/26
Temp./humidity/pressure monitor (Main Lab)	Omega Engineering	iBTHX-W-5	i00686	1/25/26	1/25/27
Preamplifier	COM-Power	PAM-103	i00734	Verified on: 02/17/26	
Preamplifier	Eravant	SBB-0115034019-2F2F-E3	i00756	Verified on: 02/17/26	

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

Measurement Uncertainty

Measurement	U_{lab}
Radio Frequency	$\pm 3.3 \times 10^{-8}$
RF Power, conducted	± 1.5 dB
RF Power Density, conducted	± 1.0 dB
Conducted Emissions	± 1.8 dB
Radiated Emissions	± 4.5 dB
Temperature	± 1.5 deg C
Humidity	± 4.3 %
DC voltage	± 0.20 VDC
AC Voltage	± 1.2 VAC

The reported expanded uncertainty $\pm U_{lab}(\text{dB})$ has been estimated at a 95% confidence level ($k=2$) U_{lab} is less than or equal to U_{EMC} therefore;

- Compliance is deemed to occur if no measured disturbance exceeds the disturbance limit.
- Non-Compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

END OF TEST REPORT