

MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247 Bluetooth

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

09/11/2025 - 12/03/2025

Test Report Issue Date:

1/15/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100080-18-R3.BCG

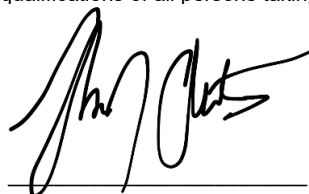
FCC ID:	BCGA3460
IC:	579C-A3460
APPLICANT:	Apple Inc.

Application Type:	Certification
Model/HVIN:	A3460, A3463
EUT Type:	Tablet Device
Max. RF Output Power	100.462 mW (20.02 dBm) Peak Conducted
Frequency Range:	2402 – 2480MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
FCC Classification:	FCC Part 15 Spread Spectrum Transmitter (DSS)
FCC Rule Part(s):	Part 15 Subpart C (15.247)
ISED Specification:	RSS-247 Issue 4
Test Procedure(s):	ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2509100080-18-R3.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez
Executive Vice President



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Revision Summary

Revision	Date	Comments	Revised By
-		Initial Release	WKR0000007358
R1	12/23/2025	Addressed TCB comments in section 2.2, 7.1, 7.8, 7.9, 7.11	WKR0000007358
R2	1/2/2026	Addressed TCB comments in section 1.0, 7.4, 7.6, and 7.9,	WKR0000007358
R3	1/2/2026	Addressed TCB comments in sections 7.6, 7.8, 7.9	WKR0000007358

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISSED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3460 and IC: 579C-A3460**. The test data contained in this report pertains only to the emissions due to the EUT's Bluetooth transmitter.

- This Bluetooth module has been tested by manufacturer and the following were confirmed:
 - A. The hopping sequence is pseudorandom
 - B. All channels are used equally on average
 - C. The receiver input bandwidth equals the transmit bandwidth
 - D. The receiver hops in sequence with the transmit signal 15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.
- 15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.
- 15.247(h): The EUT employs Adaptive Frequency Hopping (AFH) which identifies sources of interference namely devices operating in 802.11 WLAN and excludes them from the list of available channels. The process of re-mapping reduces the number of test channels from 79 channels to a minimum number of 20 channels.

Test Device Serial No.: H2KYFYWQTT, QPC2DN40YW, DLXHKV0001A00013YR, DLXHKV0001700013YR

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

Ch.	Frequency (MHz)
00	2402
:	:
39	2441
:	:
78	2480

Table 2-1. Bluetooth Frequency/ Channel Operations

Note: This device is capable of operating in hopping and non-hopping mode. The EUT can hop between 79 different channels in the 2400 – 2483.5MHz band. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

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Bluetooth Mode		Antenna 3a		Antenna 1a		TxBF	
		Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
GFSK	ePA	76.542	16	76.296	18	76.401	17
	iPA	76.542	16	76.296	18	76.401	17
8PSK	ePA	76.507	16	76.542	16	76.507	16
	iPA	76.507	16	76.542	16	76.507	16
$\pi/4$ -DQPSK	ePA	76.489	16	76.472	17	76.507	16
	iPA	76.489	16	76.472	17	76.507	16

Table 2-2. Measured Duty Cycles

TxBF = Antenna 3a + Antenna 1a

This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✓	✗
Ant 1a	Config 2	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✓	✗	✗	✗	✗	✗	✗	✓	✗
Ant 1a	Config 4	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 5	✗	✓	✗	✗	✗	✗	✗	✓	✗
Ant 1a	Config 6	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 7	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 8	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 9	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 10	✗	✗	✓	✓	✗	✗	✗	✓	✗
Ant 3a	Config 11	✓	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 12	✗	✓	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 13	✓	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 14	✗	✓	✗	✗	✗	✓	✗	✓	✗

Table 2-3. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 3a	Antenna 1a
2.4	2.6	1.3

Table 2-4. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A2795 Model: A2305	S/N: DWH80115BK826GV19 S/N: C4H95160004PF4F4V
4	Apple Pencil	Model: A2538	S/N: KJ26TCFXJW
5	DC Power Supply	Model: KPS3010D	S/N: N/A

Table 2-5. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 was also used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, and 7.8 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and the worst case was reported.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

$\pi/4$ -DQPSK has been investigated and confirmed as not the worst case.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

Description	Bluetooth	UNII	LTE (Band 41)
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	78	36	40640
Operating Frequency (MHz)	2480	5180	2595
Mode/Modulation	GFSK ePA	802.11n	QPSK/1RB/20MHz

Table 2-6. Worst Case Simultaneous Transmission Configuration

2.6 Software and Firmware

The test was conducted with firmware version 23D40 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added, and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024) was used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is an EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz – 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.12. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.00
AC Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1315051
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1339027
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/16/2025	Annual	4/16/2026	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

Table 6-1. Test Equipment List

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * denotes passive equipment that have been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3460
 IC: 579C-A3460
 Method/System: Frequency Hopping Spread Spectrum (FHSS)
 Number of Channels: 79

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(1)	RSS-247 [6.2.1(a)]	20dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(1)	RSS-247 [6.2.3.2(a)]	Peak Transmitter Output Power	< 1 Watt if ≥ 75 non-overlapping channels used		PASS	Section 7.3
15.247(a)(1)	RSS-247 [6.2.3.1(a)]	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		PASS	Section 7.5
15.247(a)(1)(iii)	RSS-247 [6.2.3.1(b)]	Time of Occupancy	< 0.4 sec in 31.6 sec period		PASS	Section 7.6
15.247(a)(1)(iii)	RSS-247 [6.2.3.1(b)]	Number of Channels	> 15 Channels		PASS	Section 7.7
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	> 20dBc		PASS	Section 7.4, 7.8
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-247 limits)	RADIATED	PASS	Section 7.9, 7.10
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8] limits)	LINE CONDUCTED	PASS	Section 7.11

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.5.0.
- 5) For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.

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7.2 Bandwidth Measurement

§2.1049; §15.247 (a)(1); RSS-247 [6.2.1(a)];RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 6.9.2
RSS-Gen [6.7]

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 99% occupied bandwidth and the 20dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 20$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. $RBW = 1 - 5\% \text{ OBW}$
3. $VBW \geq 3 \times RBW$
4. Reference level set to keep signal from exceeding maximum input mixer level for linear operation.
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. The trace was allowed to stabilize
9. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

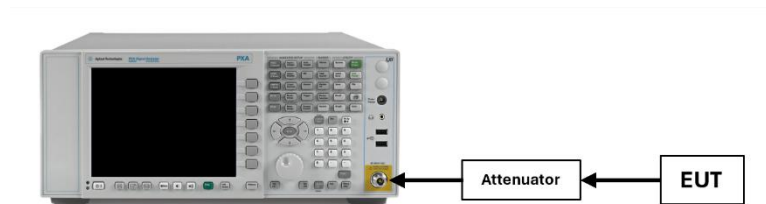


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.2.1 Antenna 3a

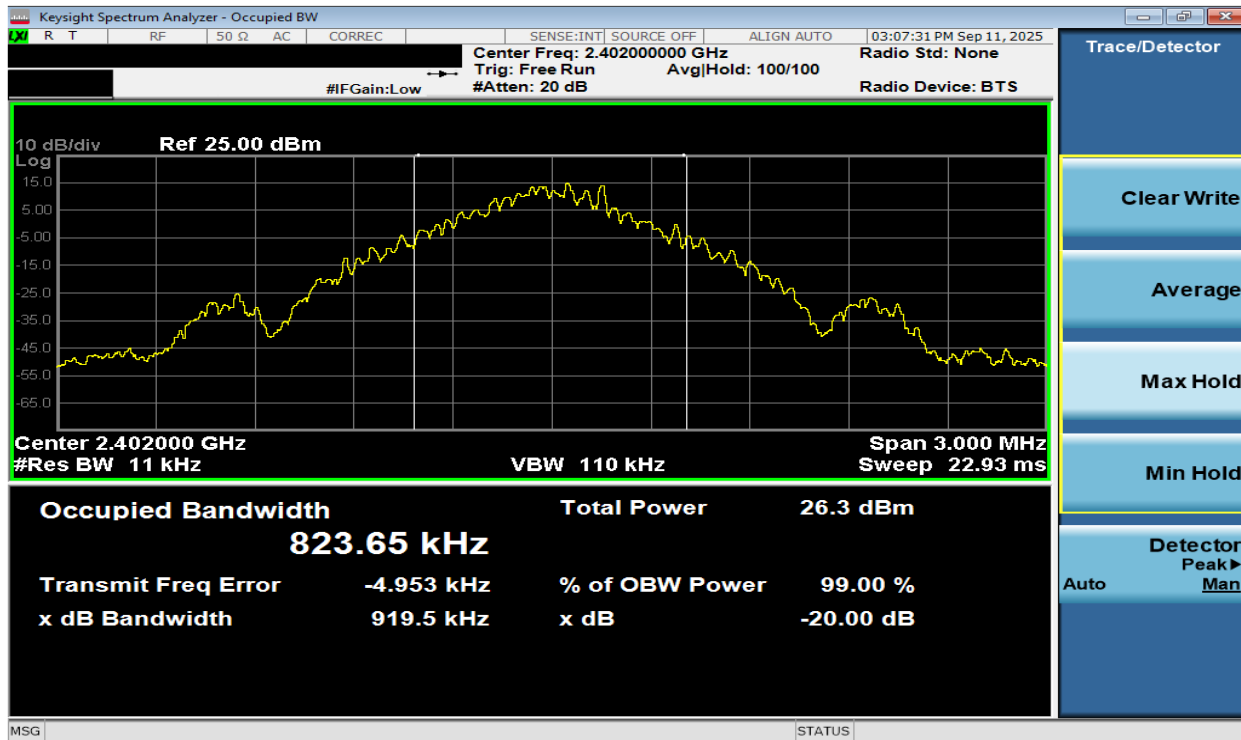
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured 99% Occupied Bandwidth [kHz]	Measured 20dB Bandwidth [kHz]
2402	1.0	GFSK	ePA	0	823.65	919.51
2441	1.0	GFSK	ePA	39	823.68	918.56
2480	1.0	GFSK	ePA	78	824.37	880.21
2402	3.0	8DPSK	ePA	0	1181.39	1271.94
2441	3.0	8DPSK	ePA	39	1181.06	1270.32
2480	3.0	8DPSK	ePA	78	1182.88	1272.90

Table 7-2. 20dB BW and 99% OBW Measurements Antenna 3a

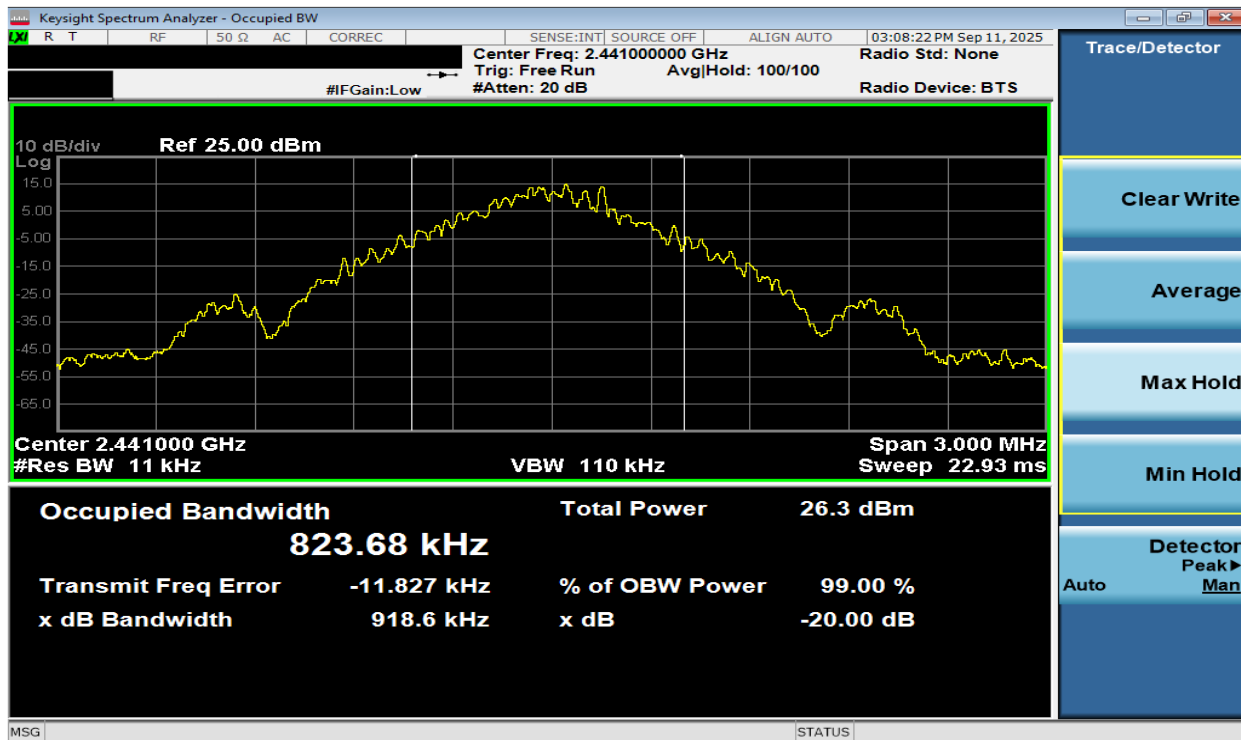
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 0)

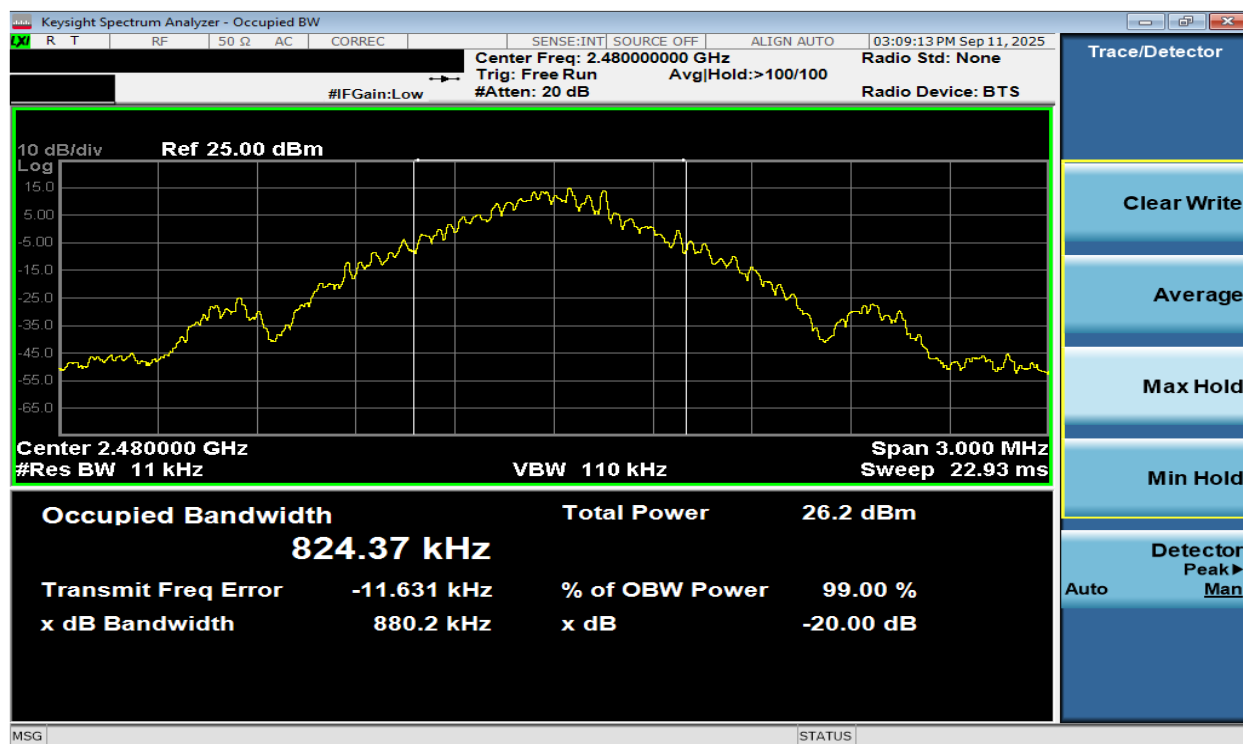


Plot 7-2. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 39)

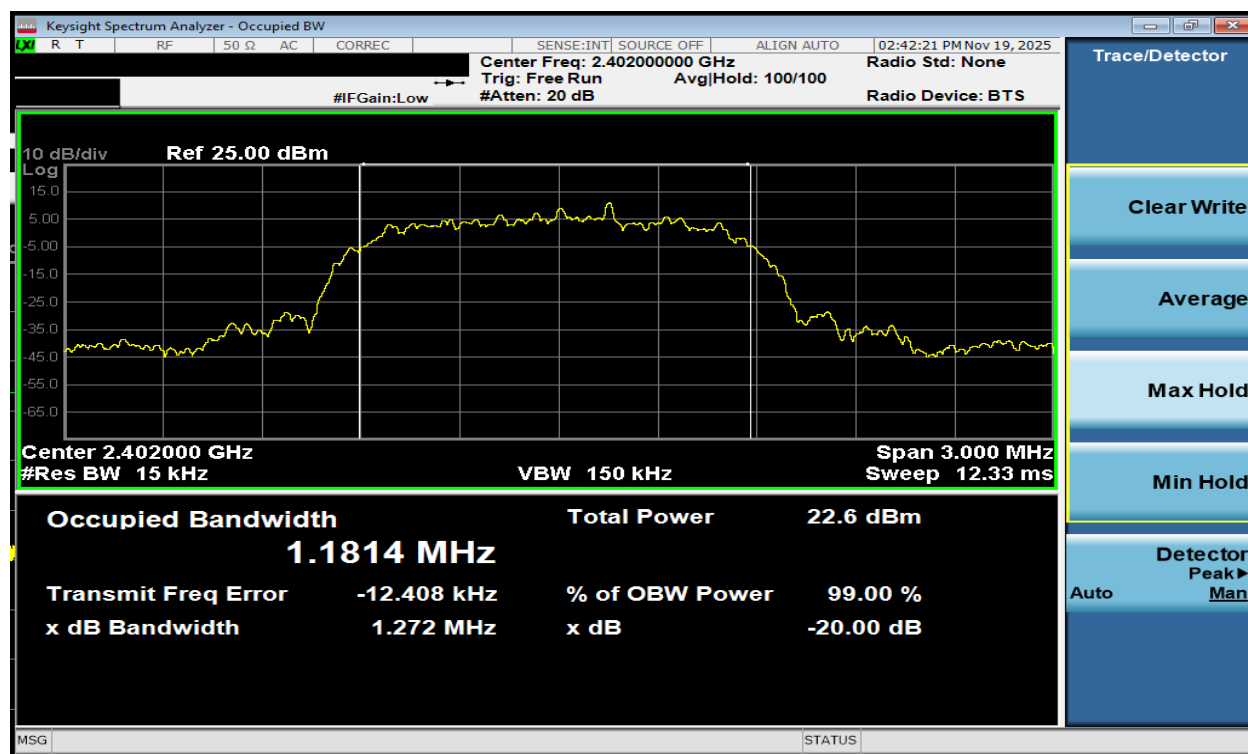
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-3. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 78)

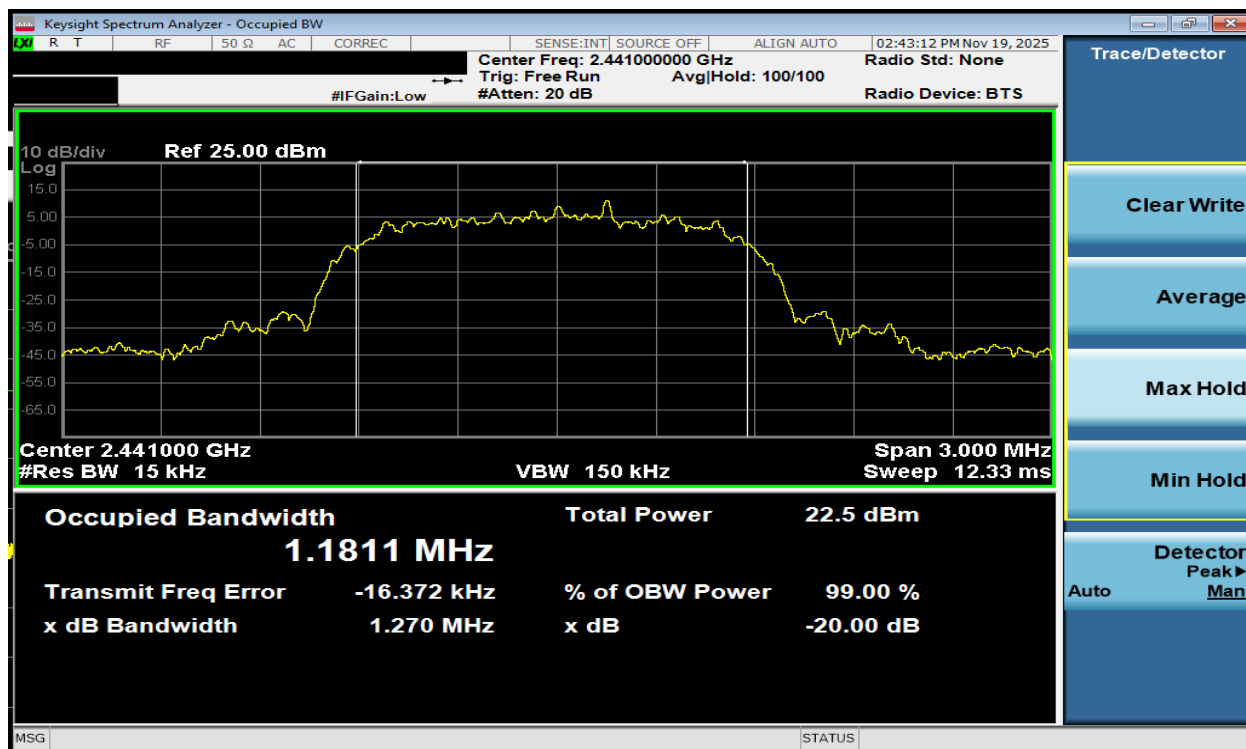


Plot 7-4. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, 8DPSK, ePA – Ch. 0)

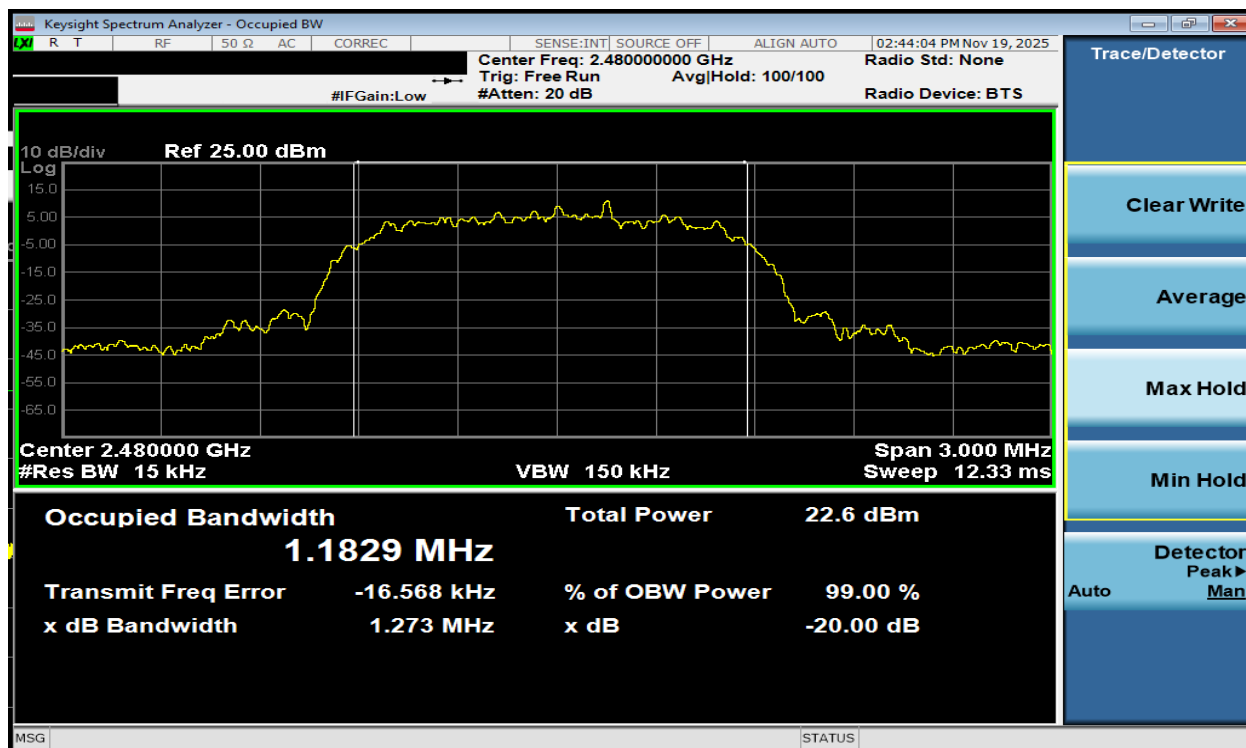
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-5. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, 8DPSK, ePA – Ch. 39)



Plot 7-6. 20dB BW and 99% OBW Plot Antenna 3a (Bluetooth, 8DPSK, ePA – Ch. 78)

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7.2.2 Antenna 1a

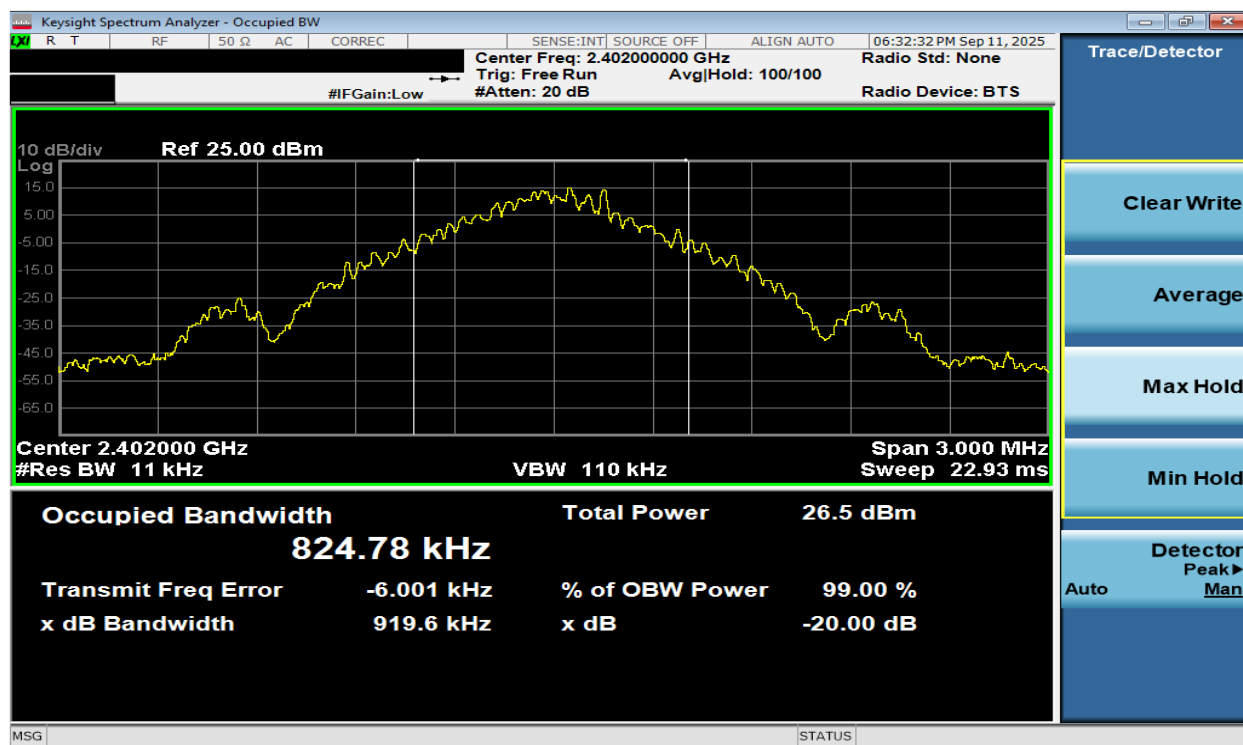
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured 99% Occupied Bandwidth [kHz]	Measured 20dB Bandwidth [kHz]
2402	1.0	GFSK	ePA	0	824.78	919.56
2441	1.0	GFSK	ePA	39	821.96	882.46
2480	1.0	GFSK	ePA	78	822.77	880.23
2402	3.0	8DPSK	ePA	0	1180.87	1270.23
2441	3.0	8DPSK	ePA	39	1179.45	1268.29
2480	3.0	8DPSK	ePA	78	1180.69	1269.67

Table 7-3. 20dB BW and 99% OBW Bandwidth Measurements Antenna 1a

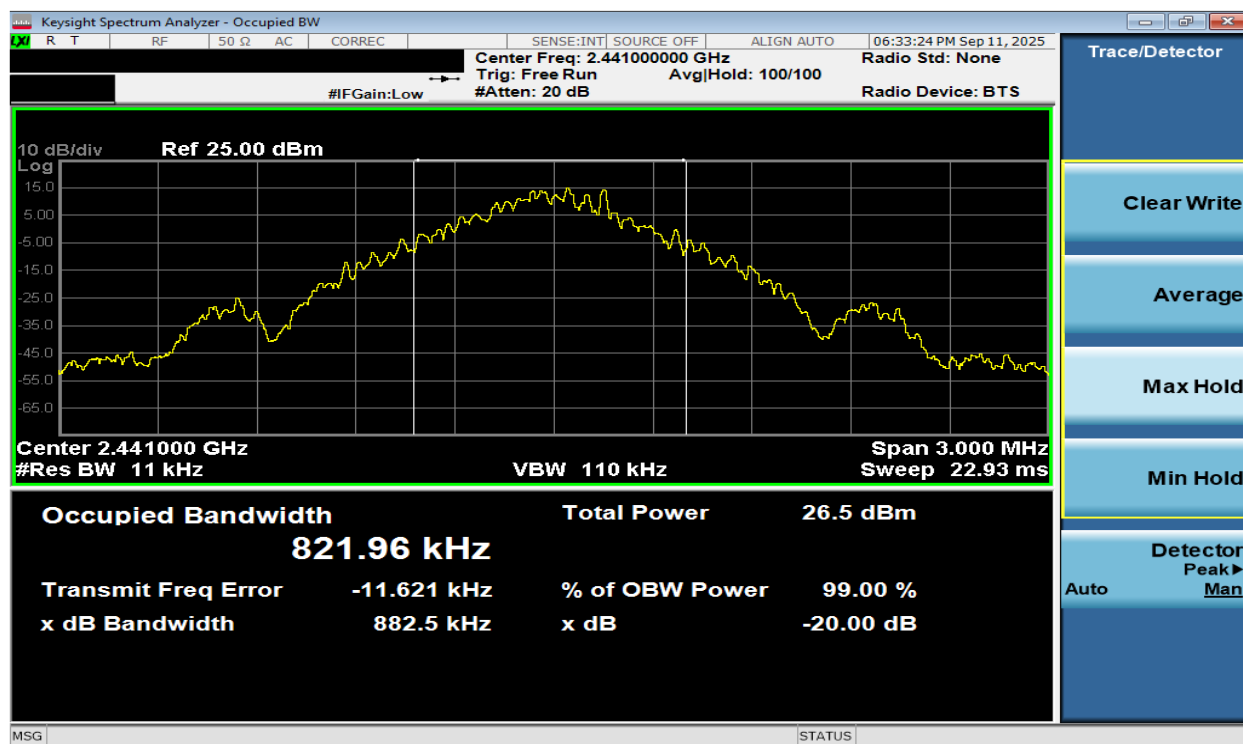
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Plot 7-7. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 0)

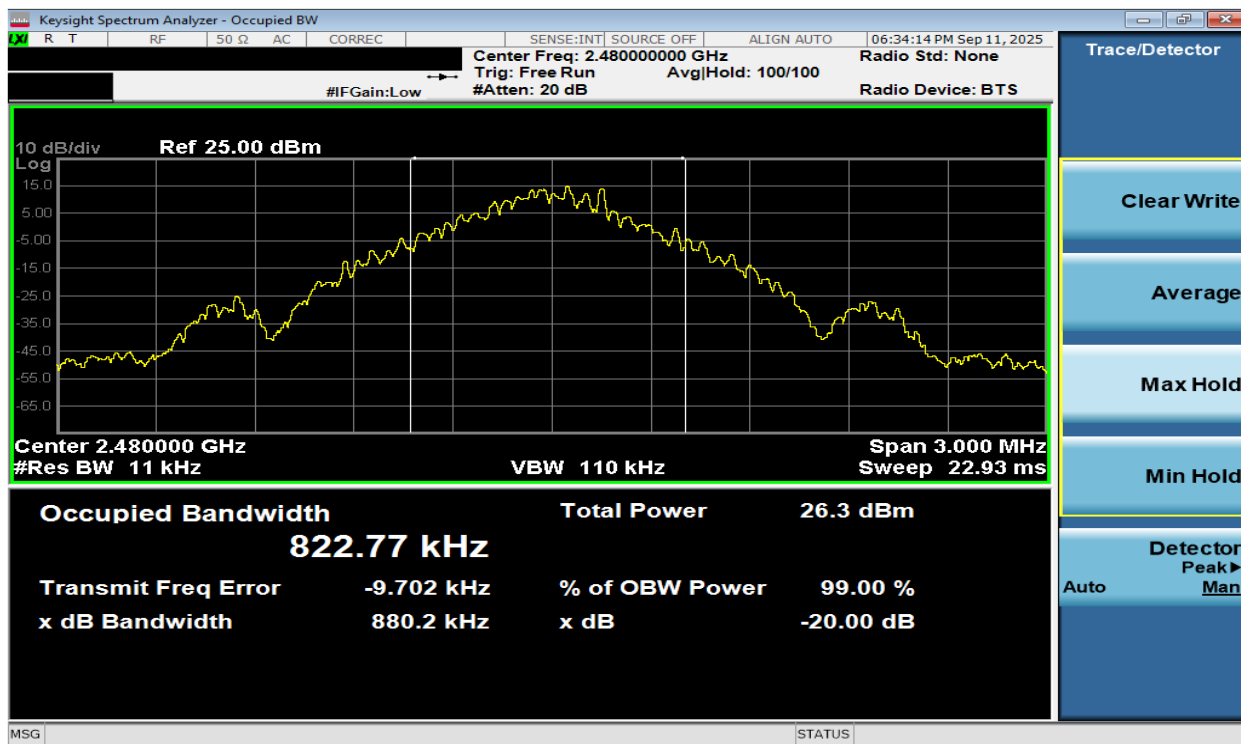


Plot 7-8. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 39)

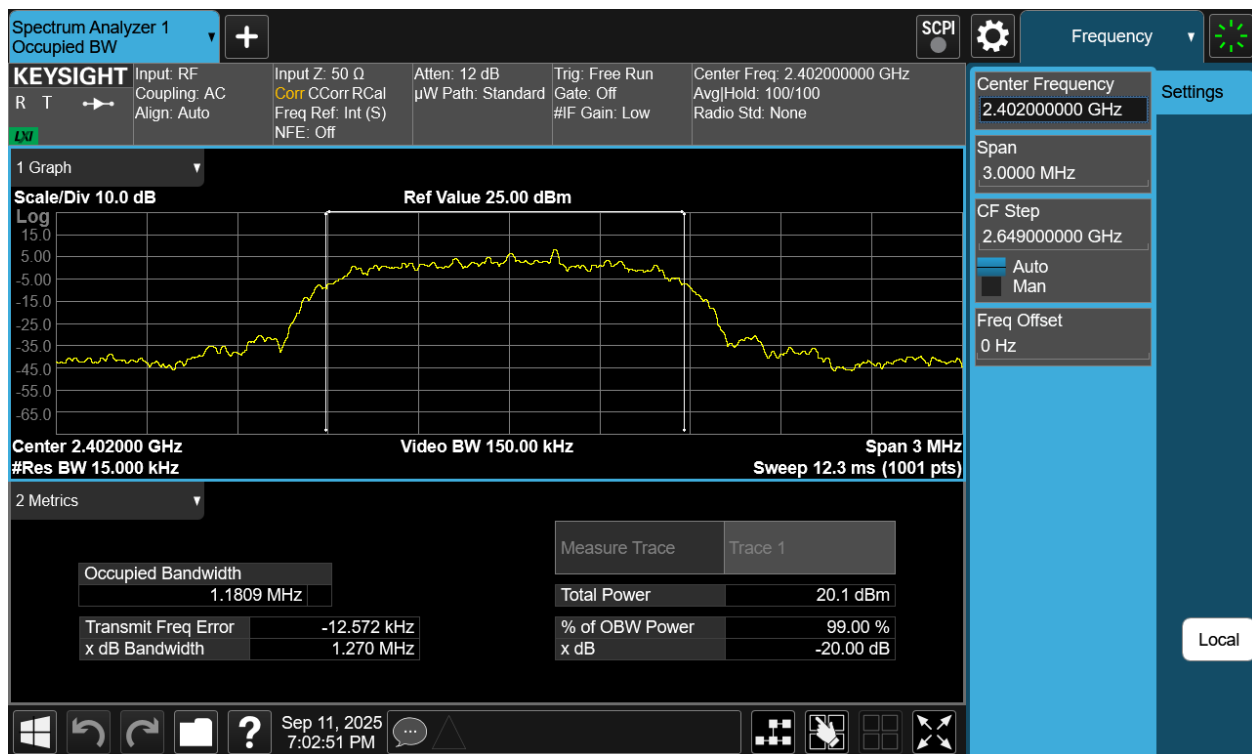
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Plot 7-9. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 78)

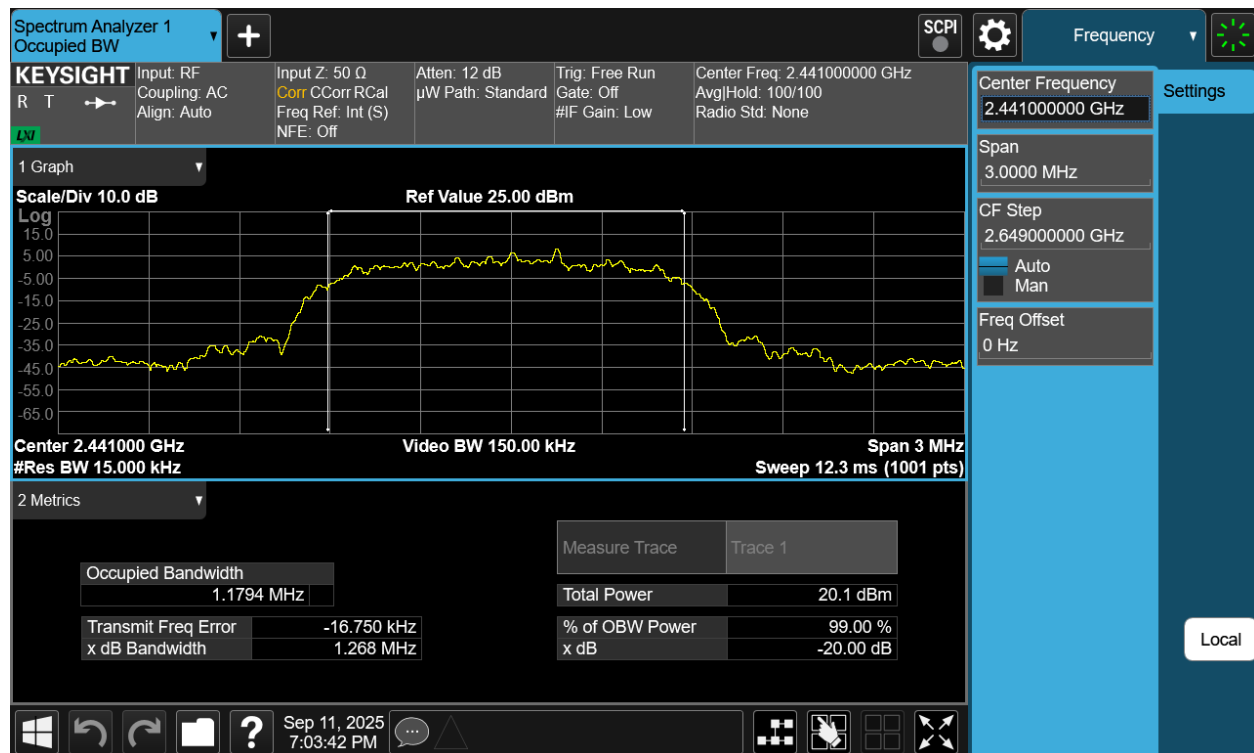


Plot 7-10. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, 8DPSK, ePA – Ch. 0)

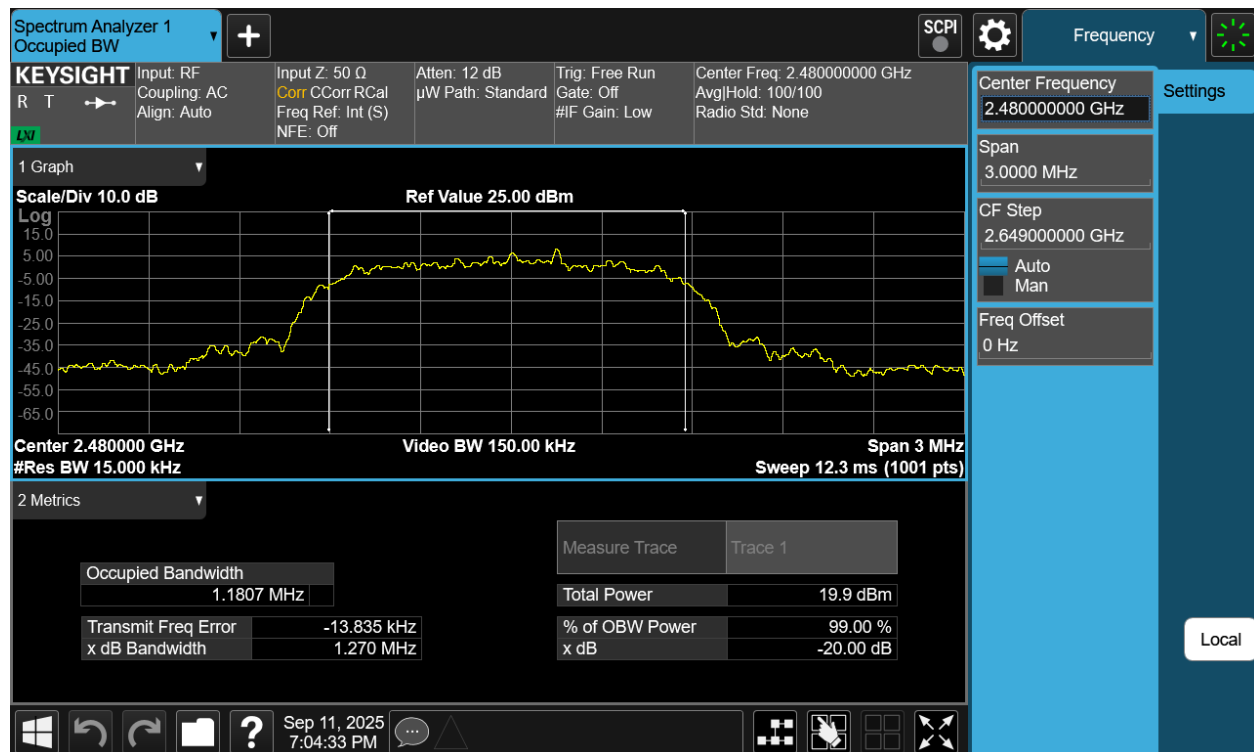
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-11. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, 8DPSK, ePA – Ch. 39)



Plot 7-12. 20dB BW and 99% OBW Plot Antenna 1a (Bluetooth, 8DPSK, ePA – Ch. 78)

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7.3 Output Power Measurement

§15.247 (b)(1); RSS-247 [6.2.3.2(a)]

Test Overview and Limits

Measurement is made while the EUT is operating in non-hopping transmission mode. Peak and Average power measurements are performed using a broadband power meter with a pulse sensor.

The maximum peak conducted output power of frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels is 1 watt

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.9.1.2 PKPM1 Peak Power Method

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.9.2.3.2 Method AVGPM-G

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.4 Measure-and-Sum Technique

Test Settings

Peak Power Measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than the occupied bandwidth.

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup for Peak and Average Power Measurement

Note

All supported modulations have been tested and $\pi/4$ -DQPSK was found not to be the worst case modulation so only GFSK and 8DPSK is reported.

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7.3.1 Peak Output Power Measurement

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	19.88	97.275	30.00	-10.12	2.60	22.48	36.02	-13.54
2441	1.0	GFSK	ePA	39	19.89	97.499	30.00	-10.12	2.60	22.49	36.02	-13.54
2480	1.0	GFSK	ePA	78	19.79	95.280	30.00	-10.21	2.60	22.39	36.02	-13.63
2402	1.0	GFSK	IPA	0	8.45	6.998	30.00	-21.55	2.60	11.05	36.02	-24.97
2441	1.0	GFSK	IPA	39	8.14	6.516	30.00	-21.86	2.60	10.74	36.02	-25.28
2480	1.0	GFSK	IPA	78	8.43	6.966	30.00	-21.57	2.60	11.03	36.02	-24.99
2402	3.0	8DPSK	ePA	0	18.88	77.268	30.00	-11.12	2.60	21.48	36.02	-14.54
2441	3.0	8DPSK	ePA	39	18.91	77.804	30.00	-11.09	2.60	21.51	36.02	-14.51
2480	3.0	8DPSK	ePA	78	18.92	77.983	30.00	-11.08	2.60	21.52	36.02	-14.50
2402	3.0	8DPSK	IPA	0	8.62	7.278	30.00	-21.38	2.60	11.22	36.02	-24.80
2441	3.0	8DPSK	IPA	39	8.29	6.745	30.00	-21.71	2.60	10.89	36.02	-25.13
2480	3.0	8DPSK	IPA	78	8.08	6.427	30.00	-21.92	2.60	10.68	36.02	-25.34

Table 7-4. Peak Conducted Output Power Measurements Antenna 3a

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	19.76	94.624	30.00	-10.24	1.30	21.06	36.02	-14.96
2441	1.0	GFSK	ePA	39	19.81	95.719	30.00	-10.19	1.30	21.11	36.02	-14.91
2480	1.0	GFSK	ePA	78	20.02	100.462	30.00	-9.99	1.30	21.32	36.02	-14.71
2402	1.0	GFSK	IPA	0	8.50	7.079	30.00	-21.50	1.30	9.80	36.02	-26.22
2441	1.0	GFSK	IPA	39	8.54	7.145	30.00	-21.46	1.30	9.84	36.02	-26.18
2480	1.0	GFSK	IPA	78	8.31	6.776	30.00	-21.69	1.30	9.61	36.02	-26.41
2402	3.0	8DPSK	ePA	0	18.93	78.163	30.00	-11.07	1.30	20.23	36.02	-15.79
2441	3.0	8DPSK	ePA	39	18.99	79.250	30.00	-11.01	1.30	20.29	36.02	-15.73
2480	3.0	8DPSK	ePA	78	18.85	76.736	30.00	-11.15	1.30	20.15	36.02	-15.87
2402	3.0	8DPSK	IPA	0	8.16	6.546	30.00	-21.84	1.30	9.46	36.02	-26.56
2441	3.0	8DPSK	IPA	39	8.11	6.471	30.00	-21.89	1.30	9.41	36.02	-26.61
2480	3.0	8DPSK	IPA	78	7.95	6.237	30.00	-22.05	1.30	9.25	36.02	-26.77

Table 7-5. Peak Conducted Output Power Measurements Antenna 1a

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					Antenna 3a		Antenna 1a		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	16.90	48.978	16.89	48.865	19.90	97.724	30.00	-10.10	4.98	24.88	36.02	-11.14
2441	1.0	GFSK	ePA	39	16.89	48.865	16.91	49.091	19.91	97.949	30.00	-10.09	4.98	24.89	36.02	-11.13
2480	1.0	GFSK	ePA	78	16.92	49.204	16.82	48.084	19.88	97.275	30.00	-10.12	4.98	24.86	36.02	-11.16
2402	1.0	GFSK	iPA	0	8.47	7.031	8.54	7.145	11.52	14.191	30.00	-18.48	4.98	16.50	36.02	-19.52
2441	1.0	GFSK	iPA	39	8.62	7.278	8.51	7.096	11.57	14.355	30.00	-18.43	4.98	16.55	36.02	-19.47
2480	1.0	GFSK	iPA	78	8.42	6.950	8.21	6.622	11.33	13.583	30.00	-18.67	4.98	16.31	36.02	-19.71
2402	3.0	8DPSK	ePA	0	16.44	44.055	16.43	43.954	19.45	88.105	30.00	-10.55	4.98	24.43	36.02	-11.59
2441	3.0	8DPSK	ePA	39	16.42	43.853	16.55	45.186	19.50	89.125	30.00	-10.50	4.98	24.48	36.02	-11.54
2480	3.0	8DPSK	ePA	78	16.35	43.152	16.32	42.855	19.34	85.901	30.00	-10.66	4.98	24.32	36.02	-11.70
2402	3.0	8DPSK	iPA	0	8.21	6.622	8.18	6.577	11.20	13.183	30.00	-18.80	4.98	16.18	36.02	-19.84
2441	3.0	8DPSK	iPA	39	8.31	6.776	8.10	6.457	11.22	13.243	30.00	-18.78	4.98	16.20	36.02	-19.82
2480	3.0	8DPSK	iPA	78	8.08	6.427	8.33	6.808	11.22	13.243	30.00	-18.78	4.98	16.20	36.02	-19.82

Table 7-6. Peak Conducted Output Power Measurements TxBF

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-18-R3.BCG	Test Dates: 09/11/2025 - 12/03/2025	EUT Type: Tablet Device	Page 26 of 82

7.3.2 Average Output Power Measurement

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	19.76	94.624	30.00	-10.24	2.60	22.36	36.02	-13.66
2441	1.0	GFSK	ePA	39	19.71	93.541	30.00	-10.29	2.60	22.31	36.02	-13.71
2480	1.0	GFSK	ePA	78	19.62	91.622	30.00	-10.38	2.60	22.22	36.02	-13.80
2402	1.0	GFSK	iPA	0	8.39	6.902	30.00	-21.61	2.60	10.99	36.02	-25.03
2441	1.0	GFSK	iPA	39	8.09	6.442	30.00	-21.91	2.60	10.69	36.02	-25.33
2480	1.0	GFSK	iPA	78	8.39	6.902	30.00	-21.61	2.60	10.99	36.02	-25.03
2402	3.0	8DPSK	ePA	0	15.64	36.644	30.00	-14.36	2.60	18.24	36.02	-17.78
2441	3.0	8DPSK	ePA	39	15.65	36.728	30.00	-14.35	2.60	18.25	36.02	-17.77
2480	3.0	8DPSK	ePA	78	15.64	36.644	30.00	-14.36	2.60	18.24	36.02	-17.78
2402	3.0	8DPSK	iPA	0	5.50	3.548	30.00	-24.51	2.60	8.10	36.02	-27.93
2441	3.0	8DPSK	iPA	39	5.37	3.443	30.00	-24.63	2.60	7.97	36.02	-28.05
2480	3.0	8DPSK	iPA	78	5.24	3.342	30.00	-24.76	2.60	7.84	36.02	-28.18

Table 7-7. Average Conducted Output Power Measurements Antenna 3a

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power		Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	19.66	92.470	30.00	-10.34	1.30	20.96	36.02	-15.06
2441	1.0	GFSK	ePA	39	19.70	93.325	30.00	-10.30	1.30	21.00	36.02	-15.02
2480	1.0	GFSK	ePA	78	19.91	97.949	30.00	-10.10	1.30	21.21	36.02	-14.82
2402	1.0	GFSK	iPA	0	8.46	7.015	30.00	-21.54	1.30	9.76	36.02	-26.26
2441	1.0	GFSK	iPA	39	8.41	6.934	30.00	-21.59	1.30	9.71	36.02	-26.31
2480	1.0	GFSK	iPA	78	8.24	6.668	30.00	-21.76	1.30	9.54	36.02	-26.48
2402	3.0	8DPSK	ePA	0	15.61	36.392	30.00	-14.39	1.30	16.91	36.02	-19.11
2441	3.0	8DPSK	ePA	39	15.69	37.068	30.00	-14.31	1.30	16.99	36.02	-19.03
2480	3.0	8DPSK	ePA	78	15.66	36.813	30.00	-14.34	1.30	16.96	36.02	-19.06
2402	3.0	8DPSK	iPA	0	4.97	3.141	30.00	-25.03	1.30	6.27	36.02	-29.75
2441	3.0	8DPSK	iPA	39	5.13	3.258	30.00	-24.87	1.30	6.43	36.02	-29.59
2480	3.0	8DPSK	iPA	78	5.07	3.214	30.00	-24.93	1.30	6.37	36.02	-29.65

Table 7-8. Average Conducted Output Power Measurements Antenna 1a

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Average Conducted Power						Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	EIRP Margin [dB]
					Antenna 3a		Antenna 1a		Summed							
					[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]						
2402	1.0	GFSK	ePA	0	16.82	48.084	16.76	47.424	19.80	95.499	30.00	-10.20	4.98	24.78	36.02	-11.24
2441	1.0	GFSK	ePA	39	16.80	47.863	16.81	47.973	19.82	95.940	30.00	-10.18	4.98	24.80	36.02	-11.22
2480	1.0	GFSK	ePA	78	16.75	47.315	16.65	46.238	19.71	93.541	30.00	-10.29	4.98	24.69	36.02	-11.33
2402	1.0	GFSK	iPA	0	8.41	6.934	8.36	6.855	11.39	13.772	30.00	-18.61	4.98	16.37	36.02	-19.65
2441	1.0	GFSK	iPA	39	8.45	6.998	8.35	6.839	11.41	13.836	30.00	-18.59	4.98	16.39	36.02	-19.63
2480	1.0	GFSK	iPA	78	8.30	6.761	8.08	6.427	11.20	13.183	30.00	-18.80	4.98	16.18	36.02	-19.84
2402	3.0	8DPSK	ePA	0	13.15	20.654	13.17	20.749	16.17	41.400	30.00	-13.83	4.98	21.15	36.02	-14.87
2441	3.0	8DPSK	ePA	39	13.23	21.038	13.31	21.429	16.28	42.462	30.00	-13.72	4.98	21.26	36.02	-14.76
2480	3.0	8DPSK	ePA	78	13.14	20.606	13.09	20.370	16.12	40.926	30.00	-13.88	4.98	21.10	36.02	-14.92
2402	3.0	8DPSK	iPA	0	5.37	3.443	4.91	3.097	8.15	6.531	30.00	-21.85	4.98	13.13	36.02	-22.89
2441	3.0	8DPSK	iPA	39	5.41	3.475	5.04	3.192	8.24	6.668	30.00	-21.76	4.98	13.22	36.02	-22.80
2480	3.0	8DPSK	iPA	78	5.23	3.334	5.43	3.491	8.34	6.823	30.00	-21.66	4.98	13.32	36.02	-22.70

Table 7-9. Average Conducted Output Power Measurements TxBF

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 3a and Antenna 1a were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Subclause 14.6.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample TxBF Calculation:

At 2402MHz the average conducted output power was measured to be 16.82 dBm for Antenna 3a and 16.76 dBm for Antenna 1a.

$$\text{Antenna 3a} + \text{Antenna 1a} = \text{TxBF}$$

$$(16.82 \text{ dBm} + 16.76 \text{ dBm}) = (48.084 \text{ mW} + 47.424 \text{ mW}) = 95.499 \text{ mW} = 19.80 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2402MHz, the average conducted output power was calculated to be 19.80 dBm with antenna gain of 4.98 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$19.80 \text{ dBm} + 4.98 \text{ dBi} = 24.78 \text{ dBm}$$

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7.4 Conducted Authorized Band Edge

§15.247 (d); RSS-247 [6.6]

Test Overview and Limits

EUT operates in hopping and non-hopping transmission mode. Measurement is taken at the highest point located outside of the emission bandwidth. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 6.10.4

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

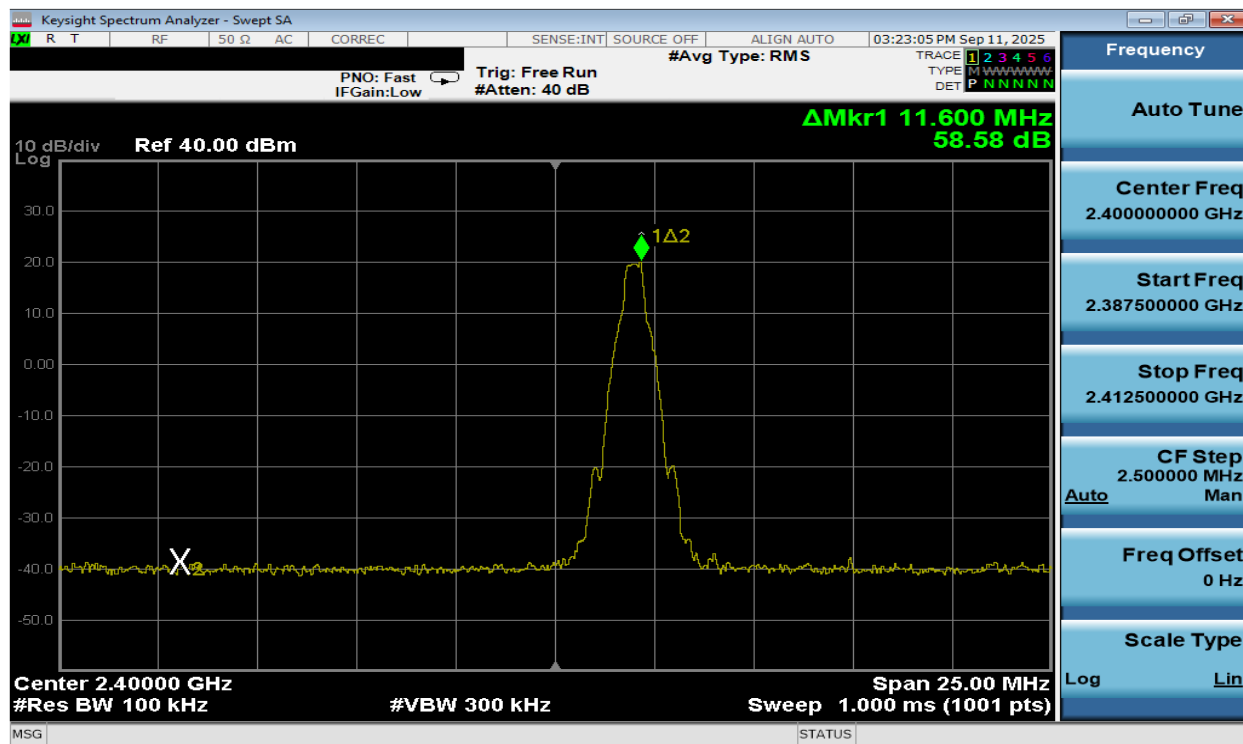
Test Notes

1. Out of band conducted spurious emissions at the band edge were investigated for all data rates in hopping and non-hopping modes. Band edge emissions were also investigated with the EUT transmitting in all data rates. Plots of the worst case emissions are shown below.
2. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

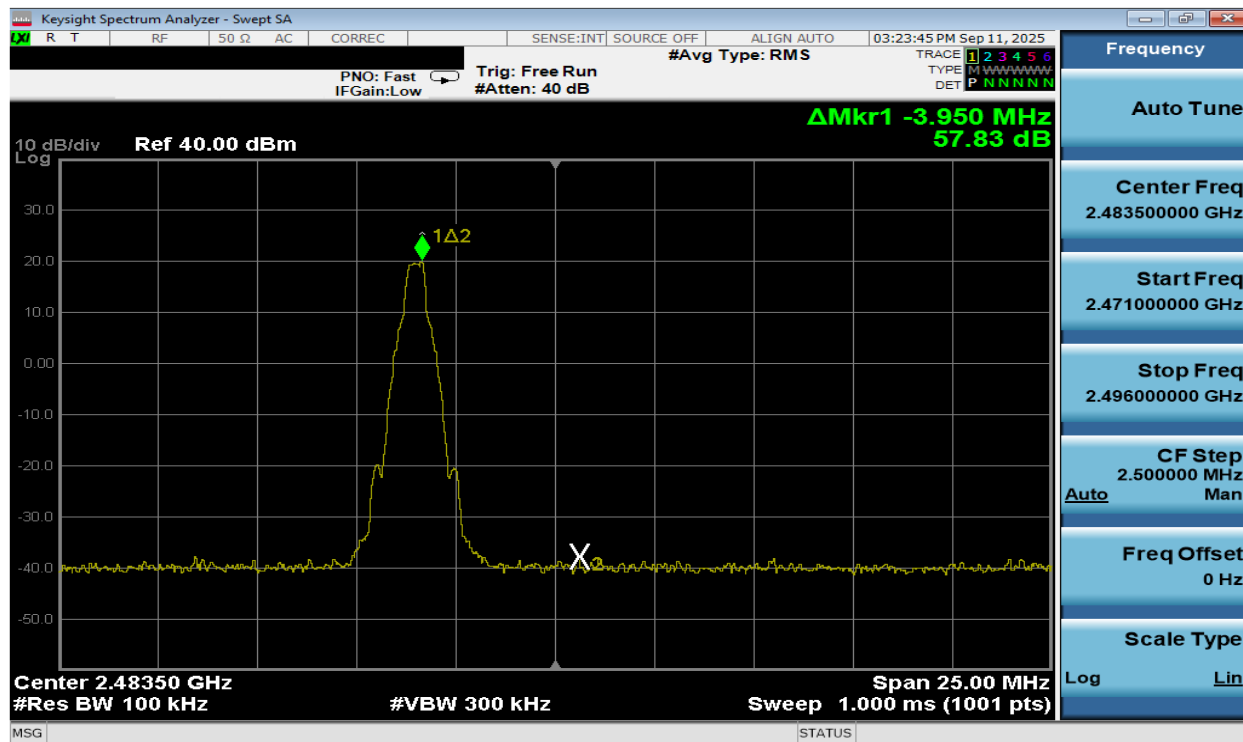
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.4.1 Antenna 3a



Plot 7-13. Band Edge Plot Antenna 3a (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 0)

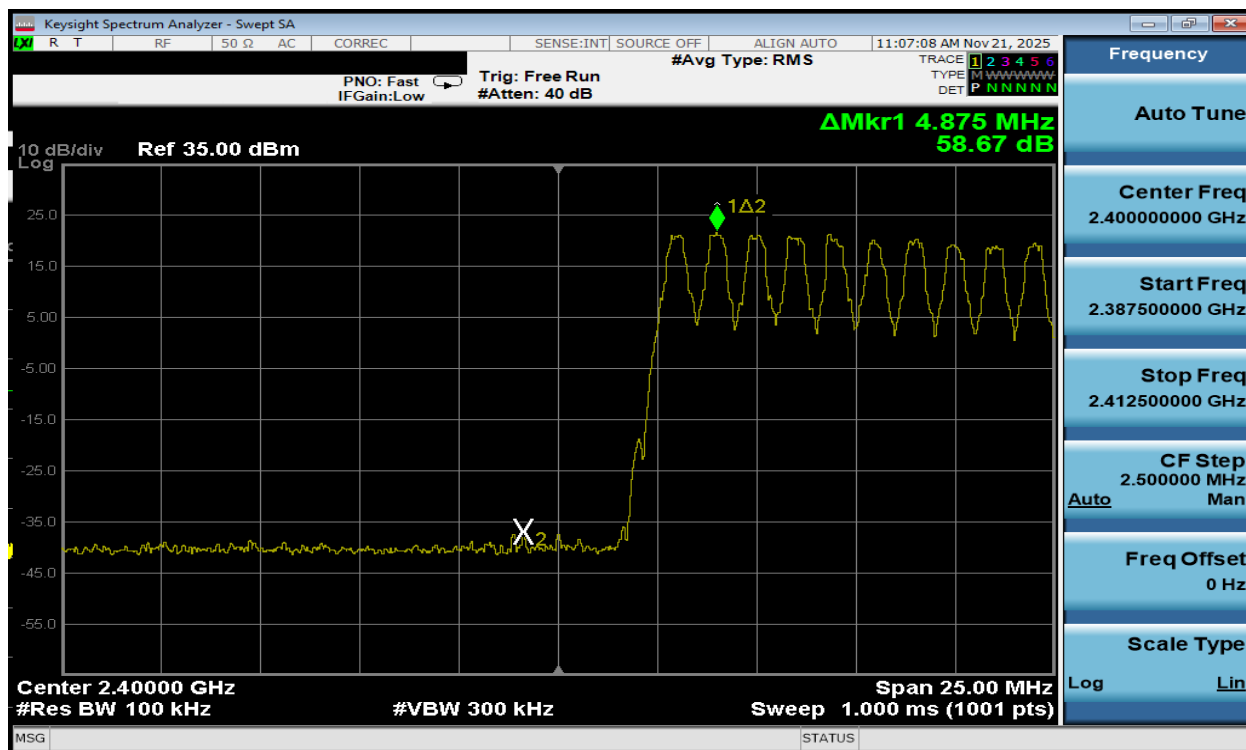


Plot 7-14. Band Edge Plot Antenna 3a (Bluetooth with Hopping Disabled, GFSK, ePA – Ch. 78)

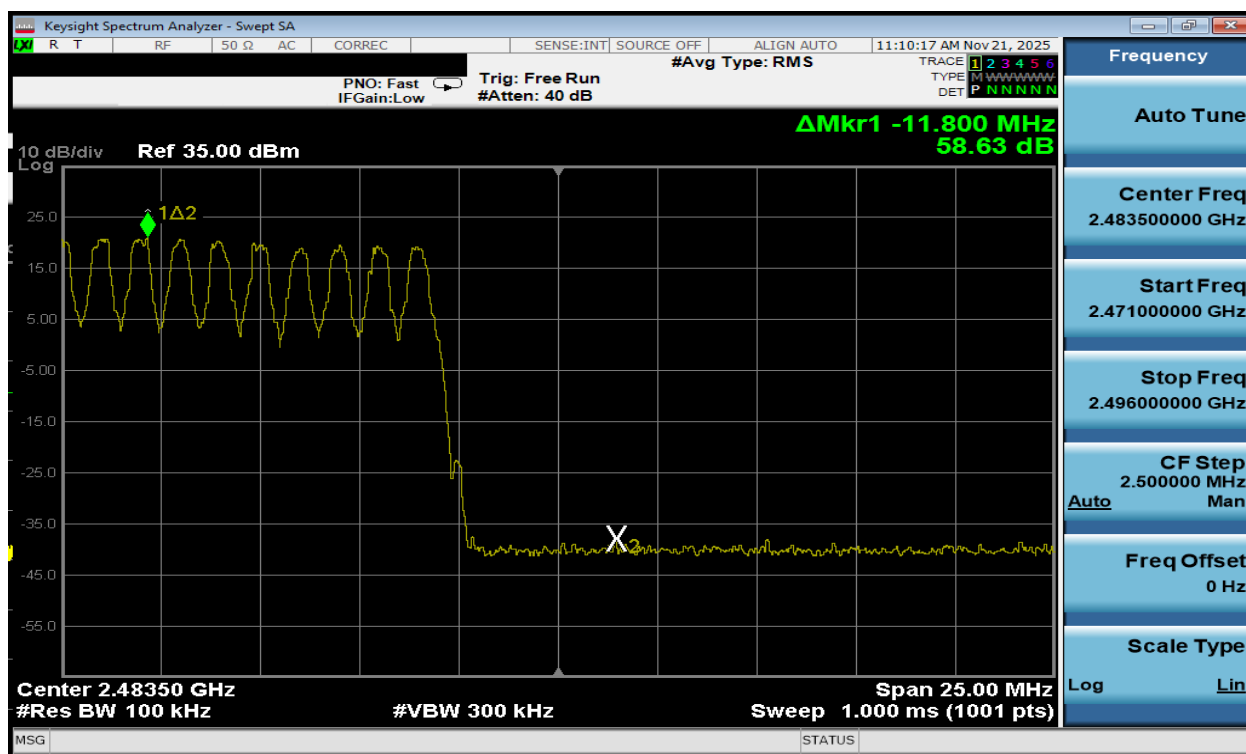
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-15. Band Edge Plot Antenna 3a (Bluetooth with Hopping Enabled, GFSK, ePA)

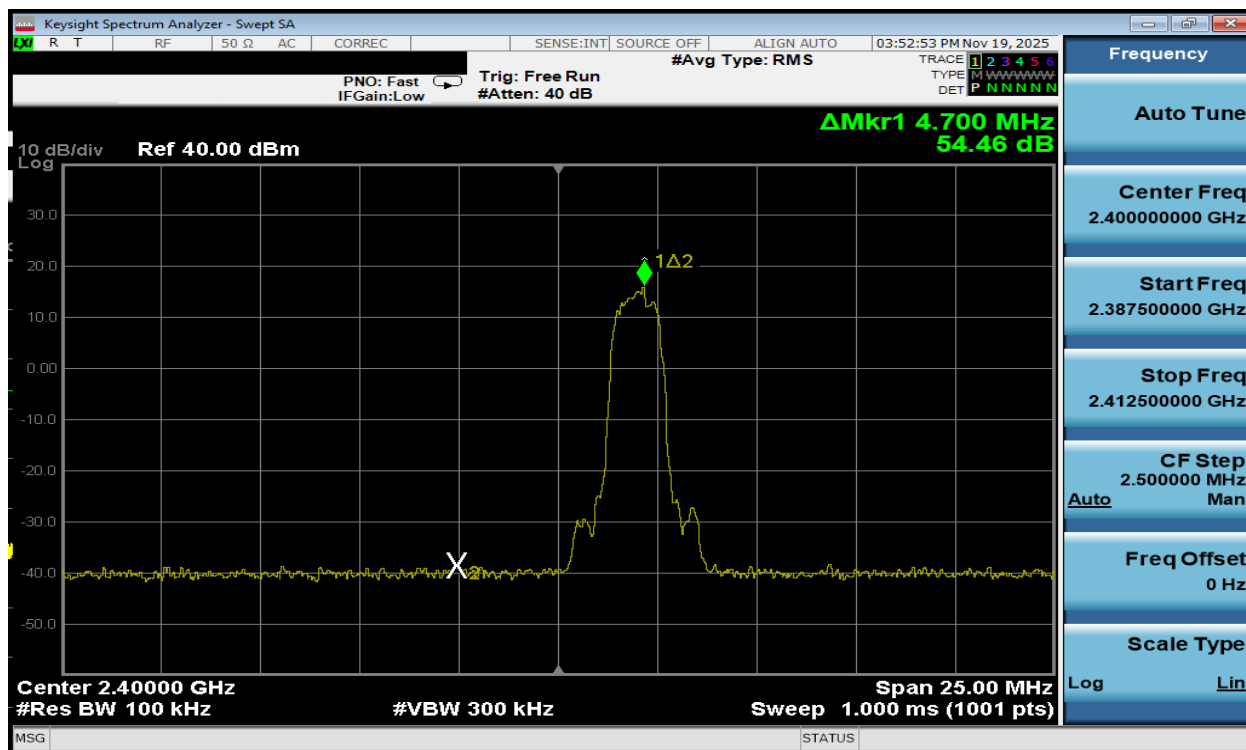


Plot 7-16. Band Edge Plot Antenna 3a (Bluetooth with Hopping Enabled, GFSK, ePA)

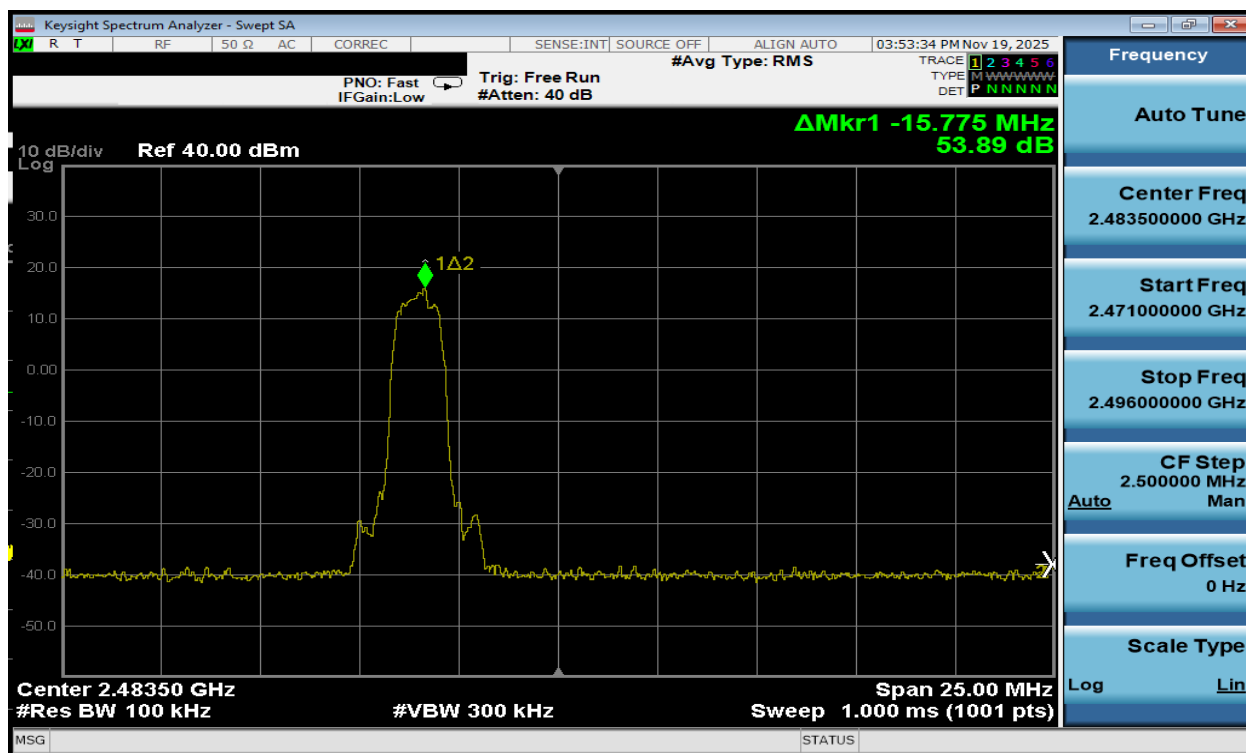
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-17. Band Edge Plot Antenna 3a (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 0)

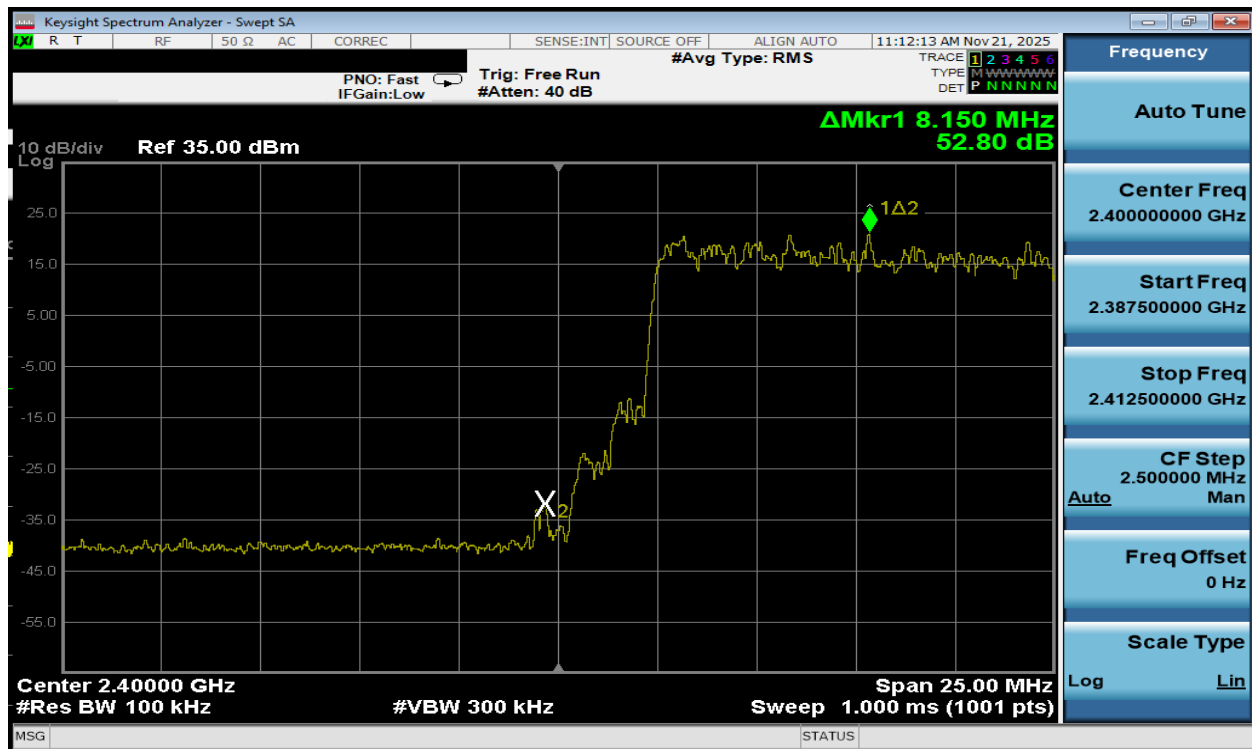


Plot 7-18. Band Edge Plot Antenna 3a (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 78)

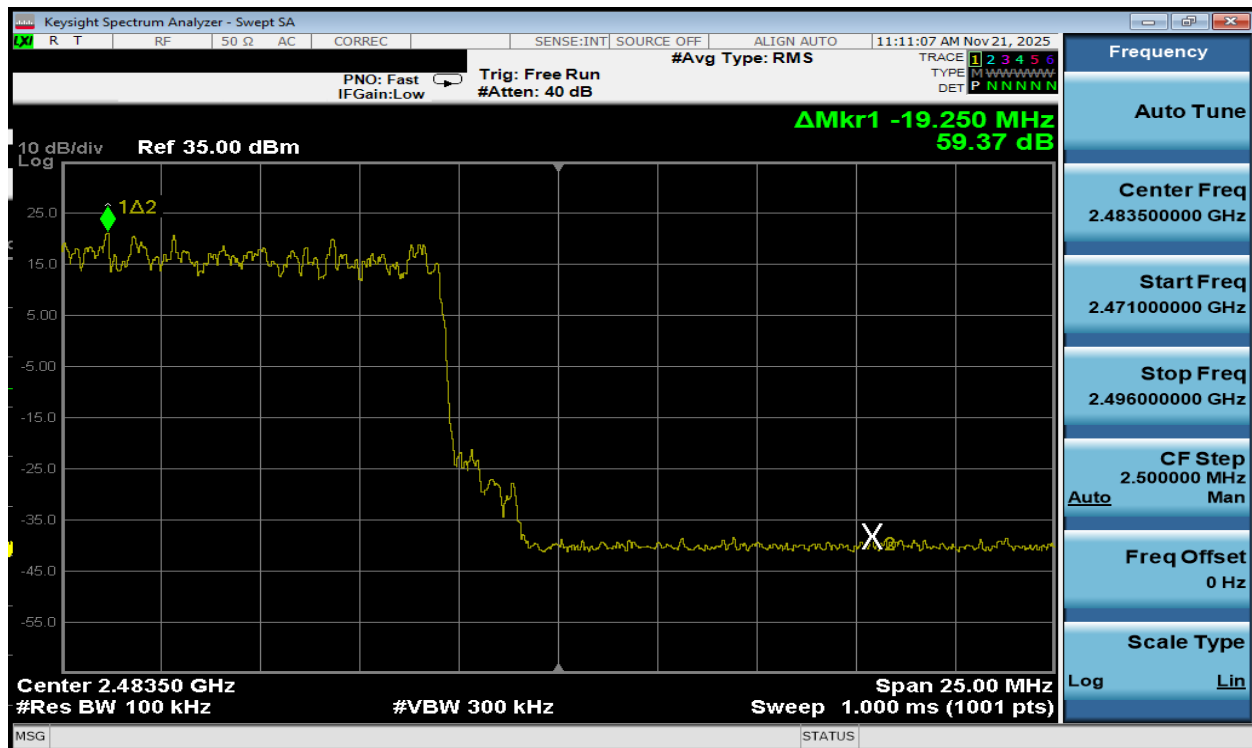
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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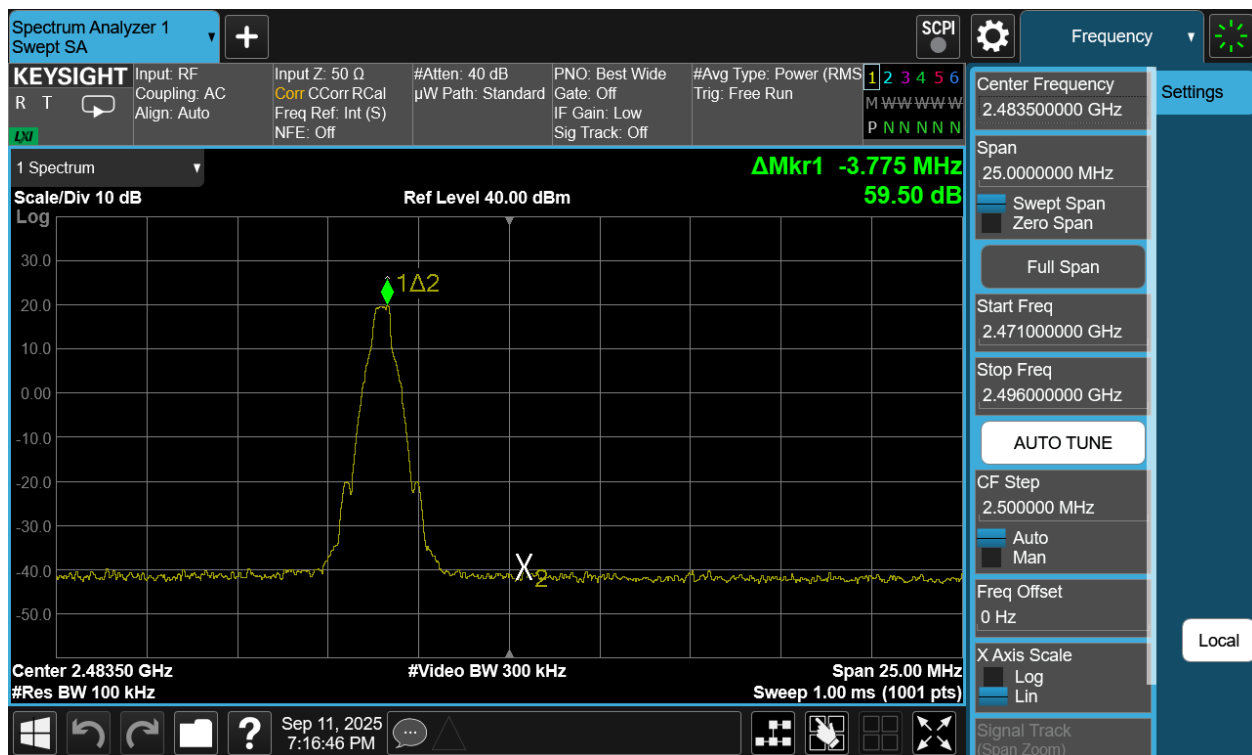
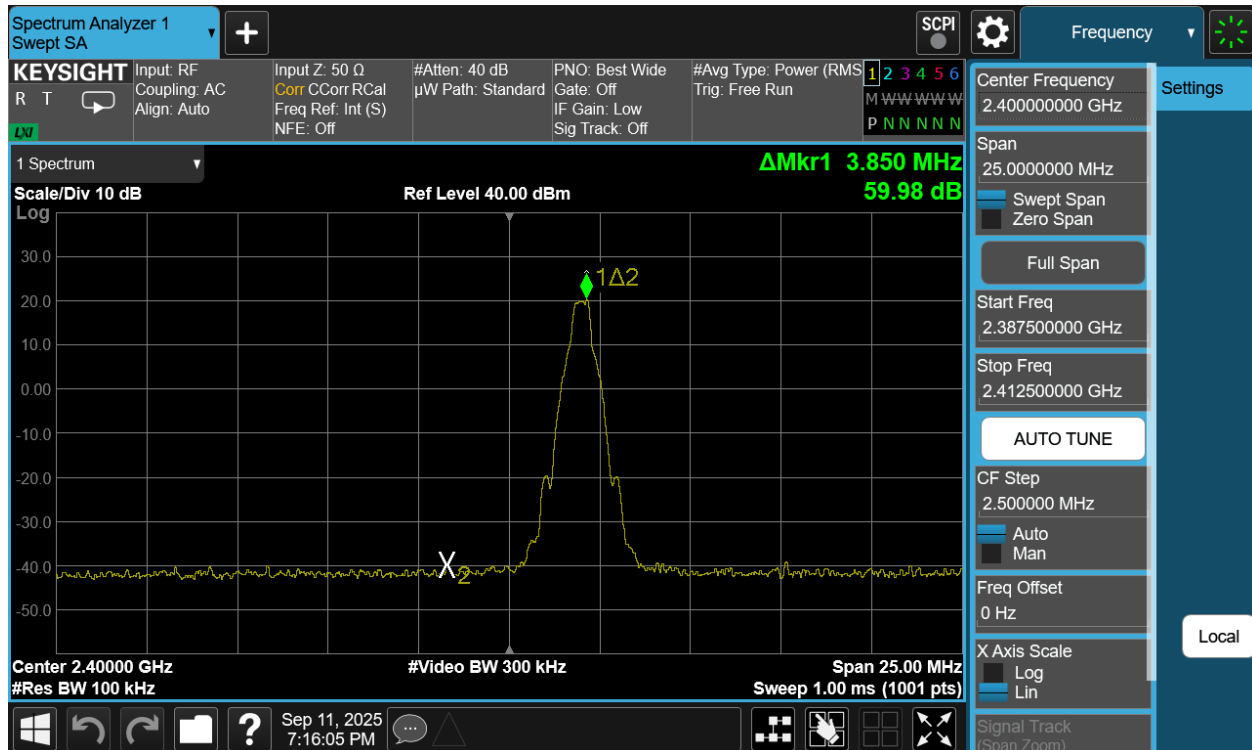
Plot 7-19. Band Edge Plot Antenna 3a (Bluetooth with Hopping Enabled, 8DPSK, ePA)



Plot 7-20. Band Edge Plot Antenna 3a (Bluetooth with Hopping Enabled, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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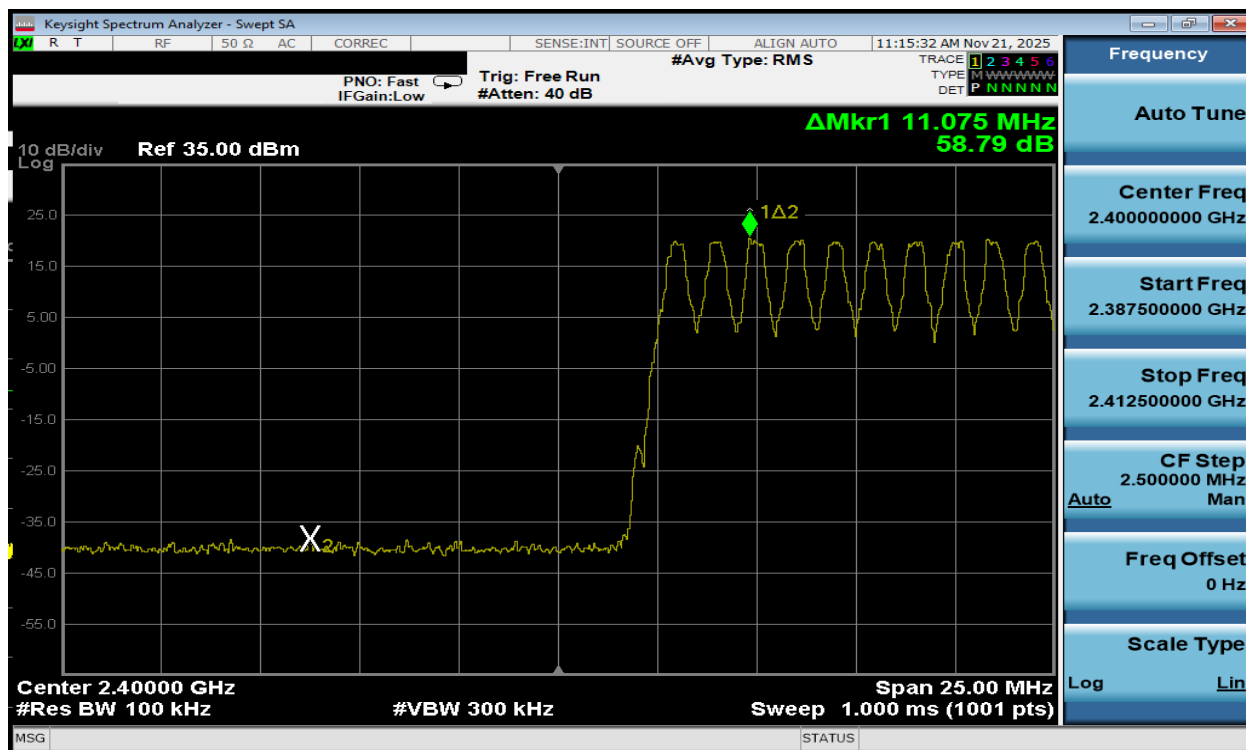
7.4.2 Antenna 1a



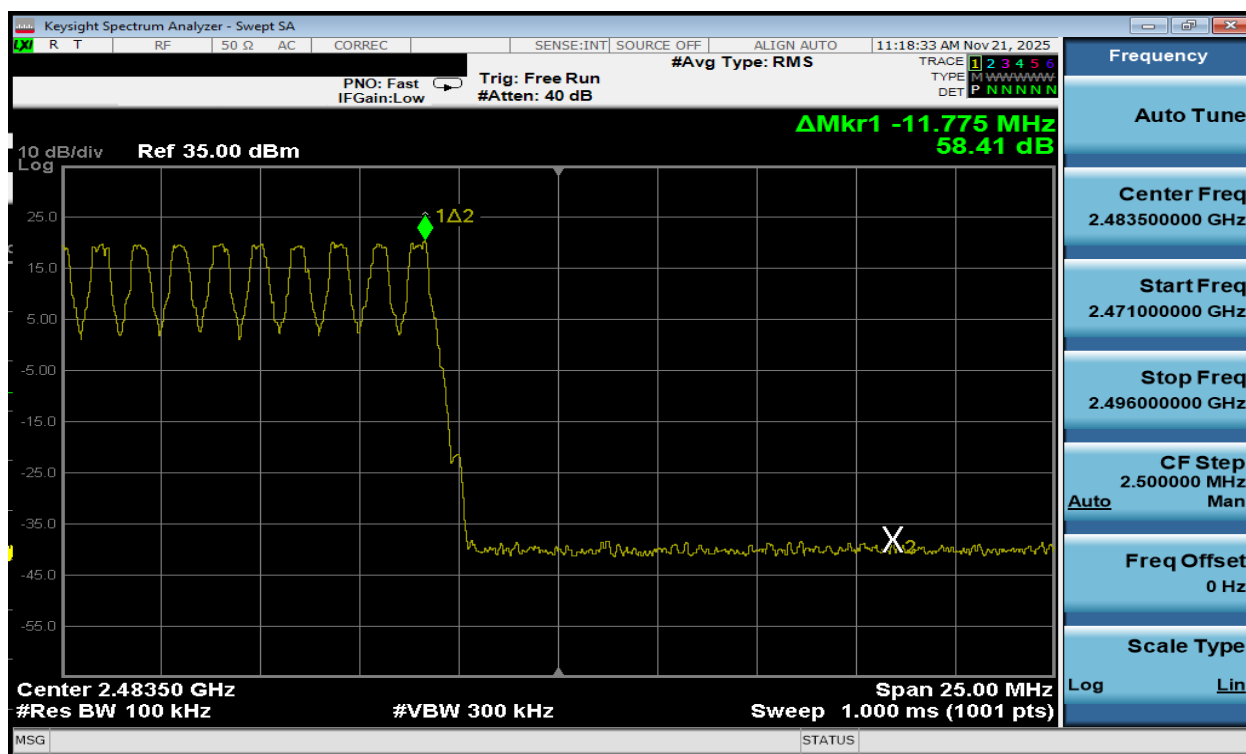
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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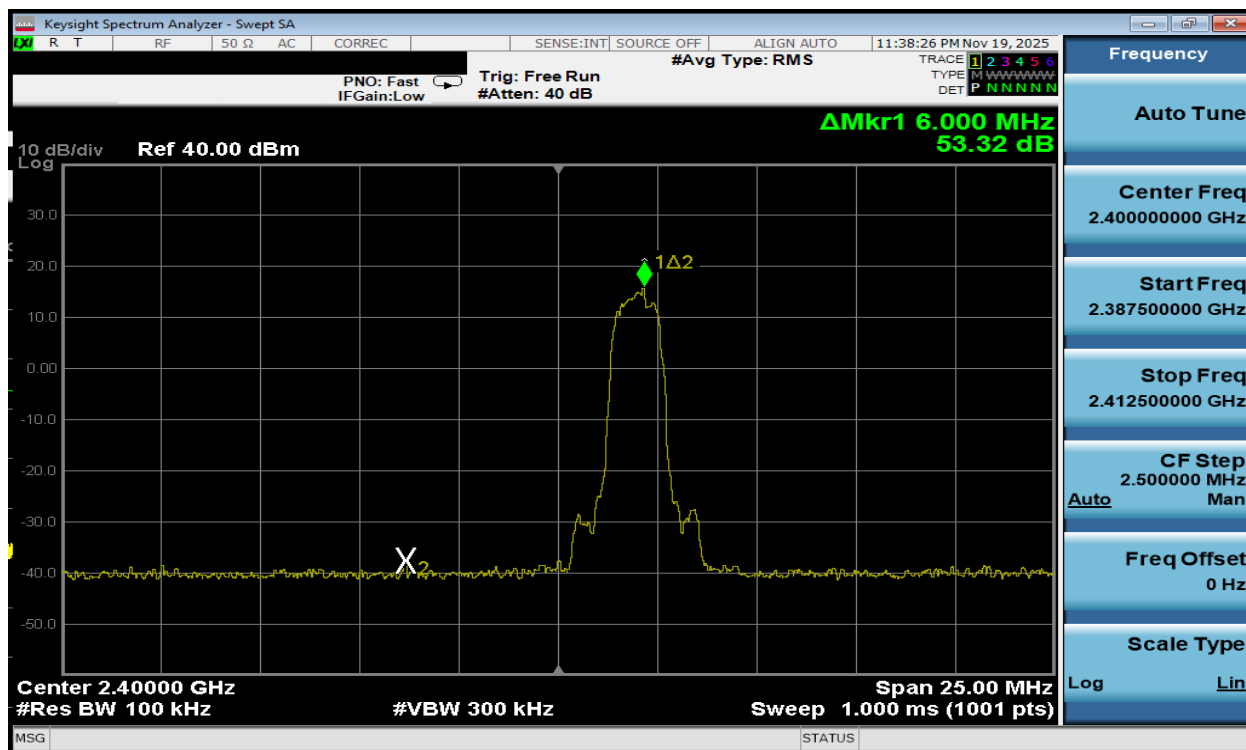


Plot 7-23. Band Edge Plot Antenna 1a (Bluetooth with Hopping Enabled, GFSK, ePA)

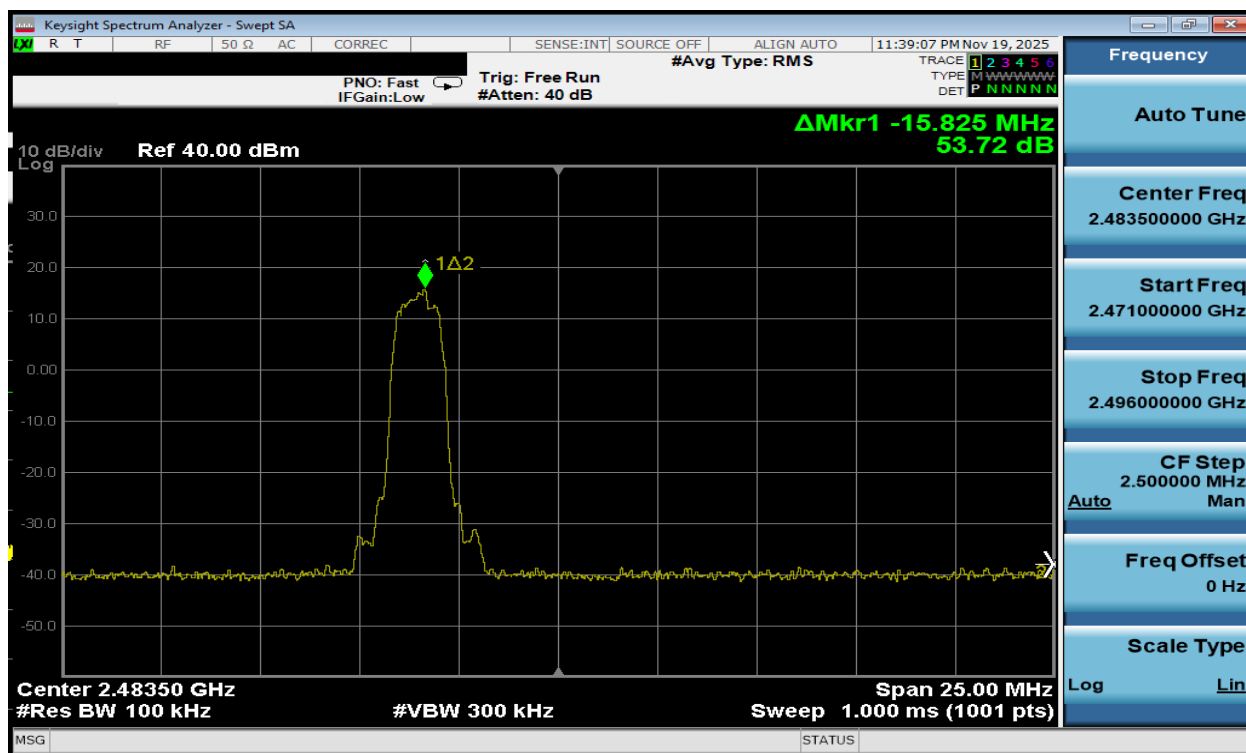


Plot 7-24. Band Edge Plot Antenna 1a (Bluetooth with Hopping Enabled, GFSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-25. Band Edge Plot Antenna 1a (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 0)

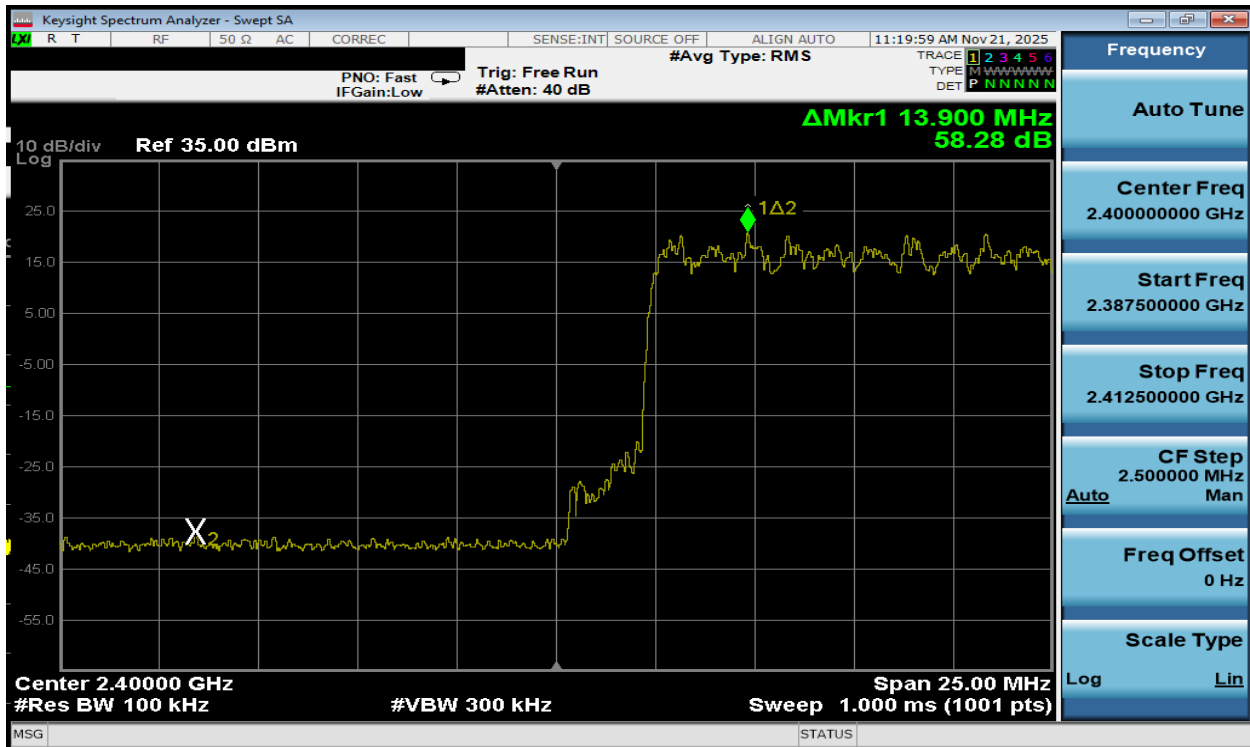


Plot 7-26. Band Edge Plot Antenna 1a (Bluetooth with Hopping Disabled, 8DPSK, ePA – Ch. 78)

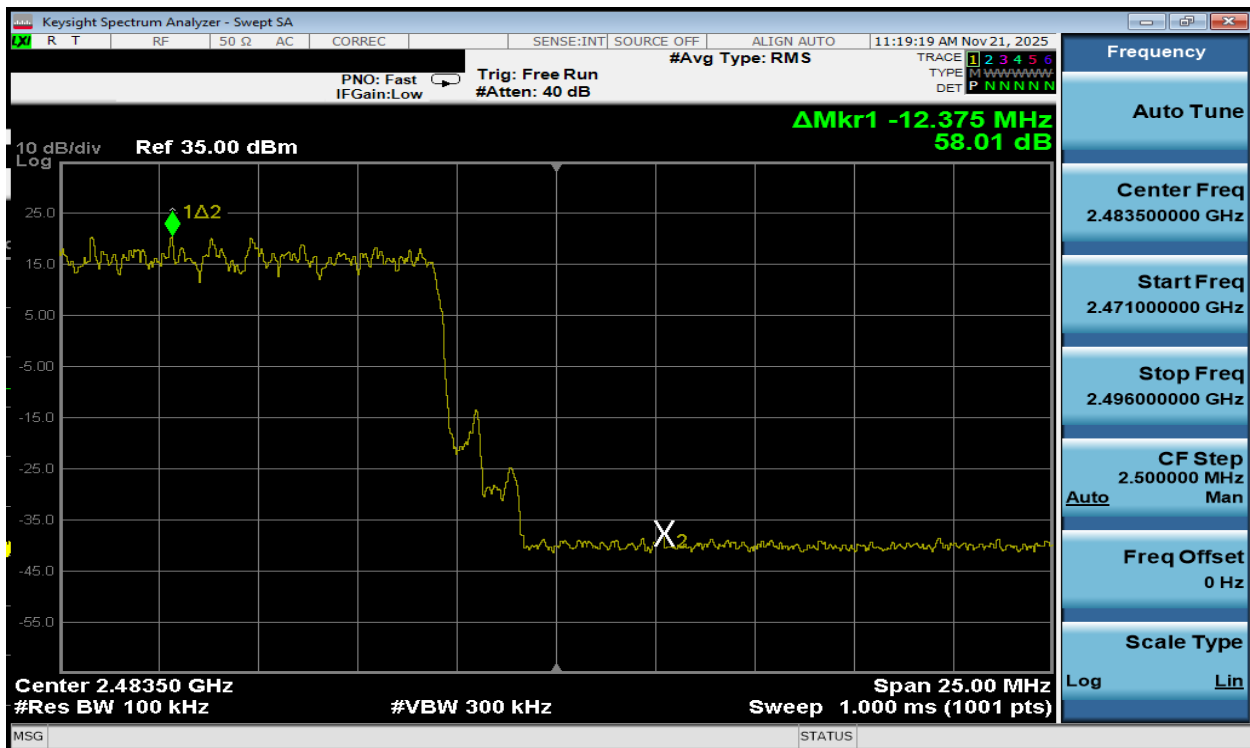
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-18-R3.BCG	Test Dates: 09/11/2025 - 12/03/2025	EUT Type: Tablet Device	Page 36 of 82

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Plot 7-27. Band Edge Plot Antenna 1a (Bluetooth with Hopping Enabled, 8DPSK, ePA)



Plot 7-28. Band Edge Plot Antenna 1a (Bluetooth with Hopping Enabled, 8DPSK, ePA)

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7.5 Carrier Frequency Separation

§15.247 (a)(1); RSS-247 [6.2.3.1(a)]

Test Overview and Limit

Measurement is made with EUT operating in hopping mode. ***The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.***

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 7.8.2

Test Settings

1. Span = Wide enough to capture peaks of two adjacent channels
2. RBW = 30% of channel spacing. Adjust as necessary to best identify center of each individual channel
3. VBW $\geq$ RBW
4. Sweep = Auto
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize.
8. Marker-delta function used to determine separation between peaks of the adjacent channels

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

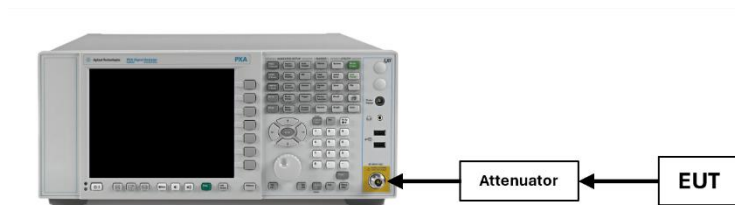


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. The EUT complies with the minimum channel separation requirement when it is operating in 1x/EDR mode using 79 channels.
2. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.5.1 Antenna 3a

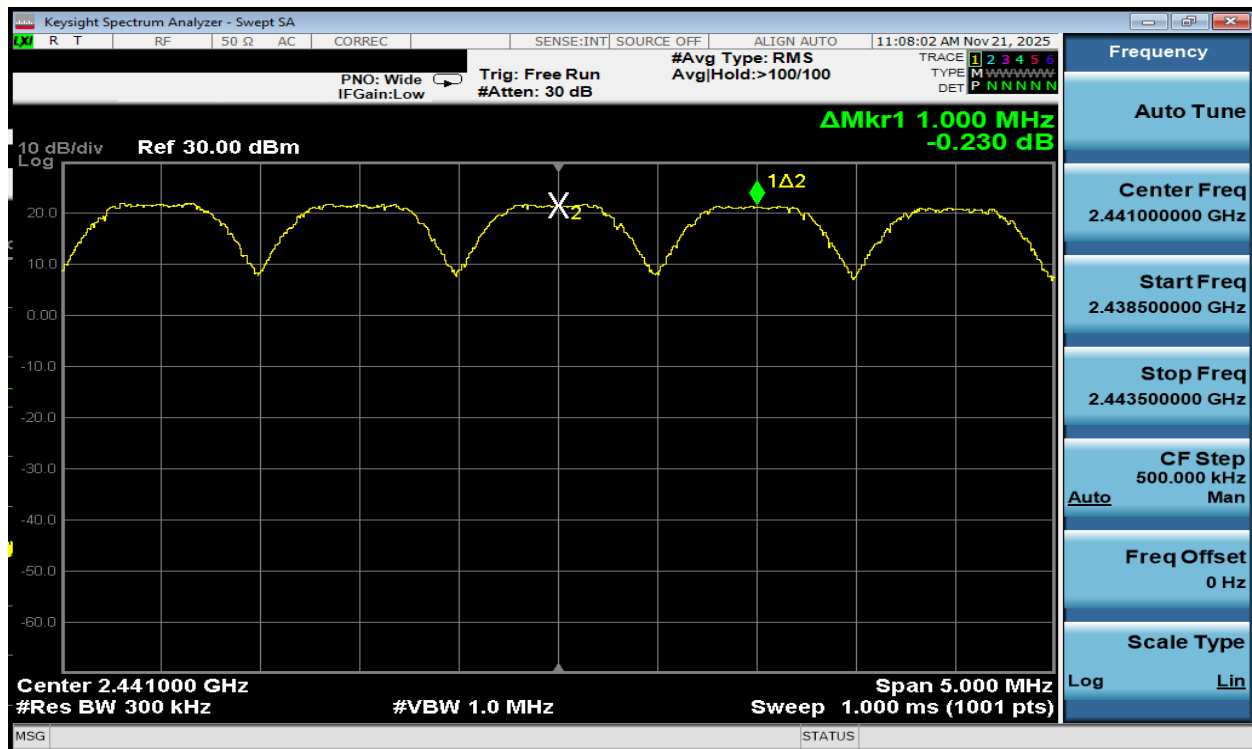
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured Channel Separation [MHz]	Min. Channel Separation [MHz]	Pass/Fail
2441	1.0	GFSK	ePA	39	1.00	0.61	Pass
2441	3.0	8DPSK	ePA	39	1.00	0.85	Pass

Table 7-10. Minimum Channel Separation Antenna 3a

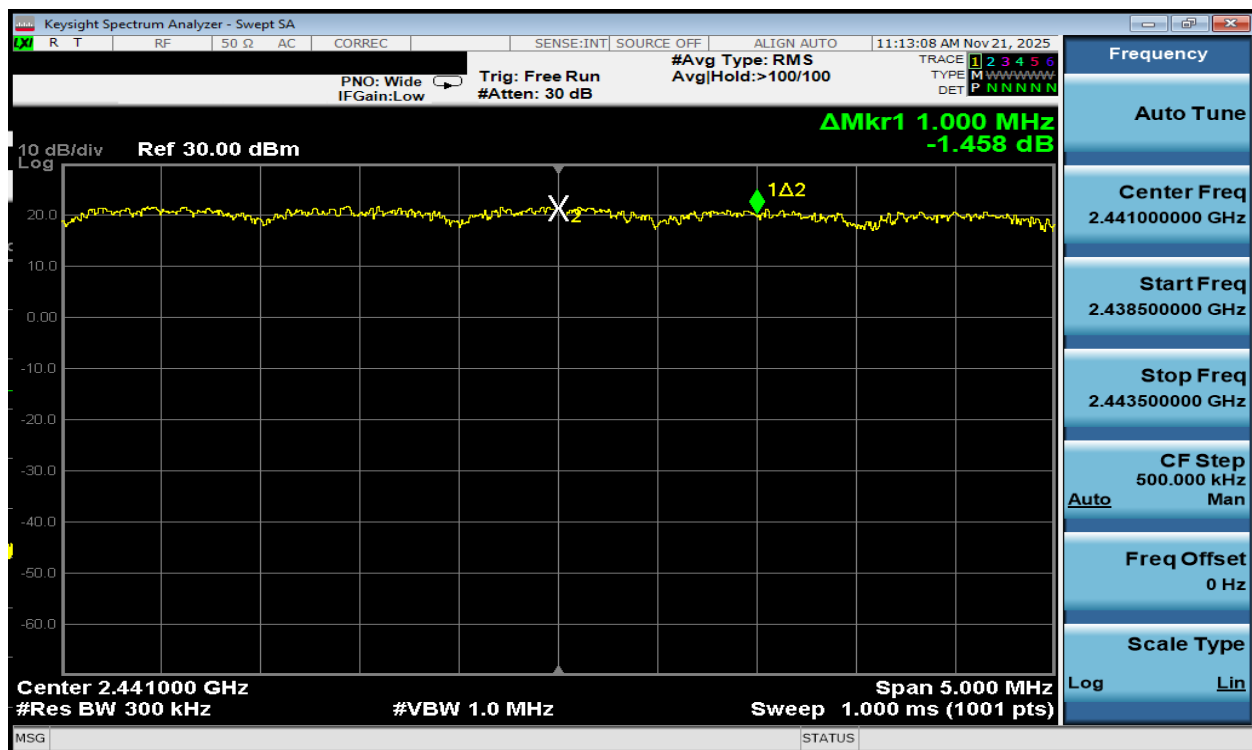
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-29. Channel Spacing Plot Antenna 3a (Bluetooth, GFSK, ePA)



Plot 7-30. Channel Spacing Plot Antenna 3a (Bluetooth, 8DPSK, ePA)

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7.5.2 Antenna 1a

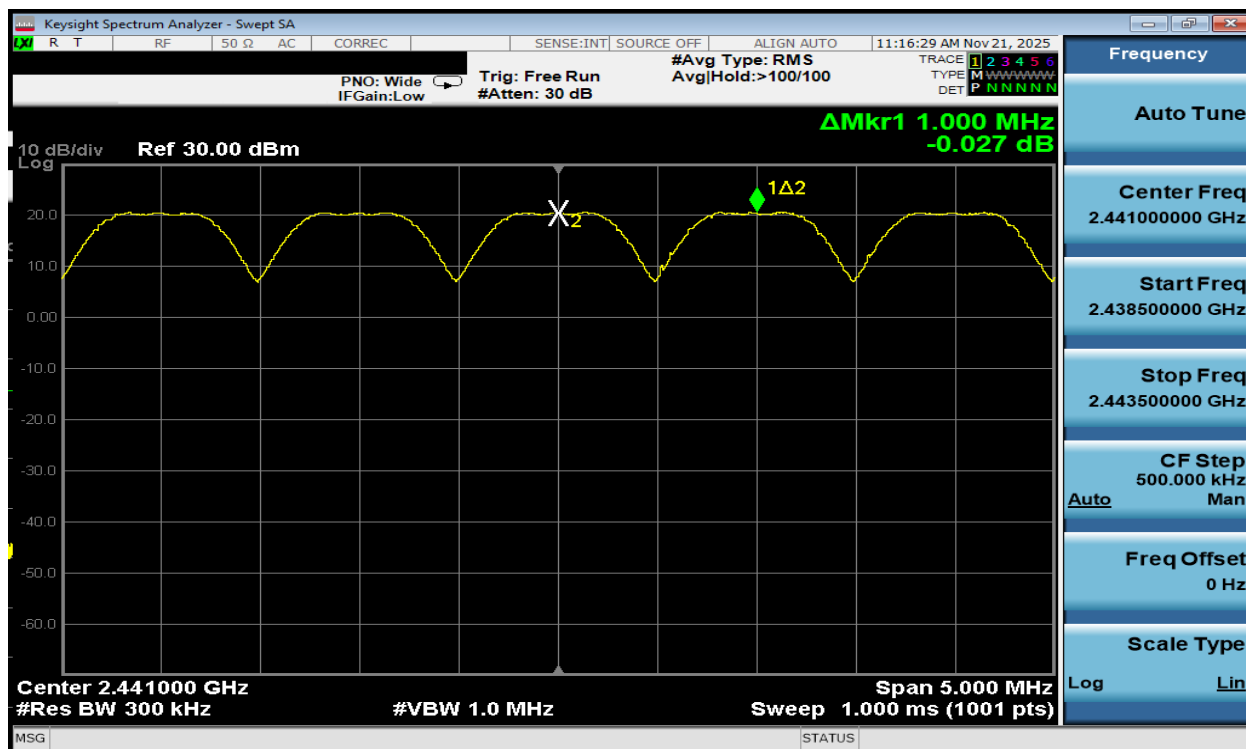
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Measured Channel Separation [MHz]	Min. Channel Separation [MHz]	Pass/Fail
2441	1.0	GFSK	ePA	39	1.00	0.59	Pass
2441	3.0	8DPSK	ePA	39	1.00	0.85	Pass

Table 7-11. Minimum Channel Separation Antenna 1a

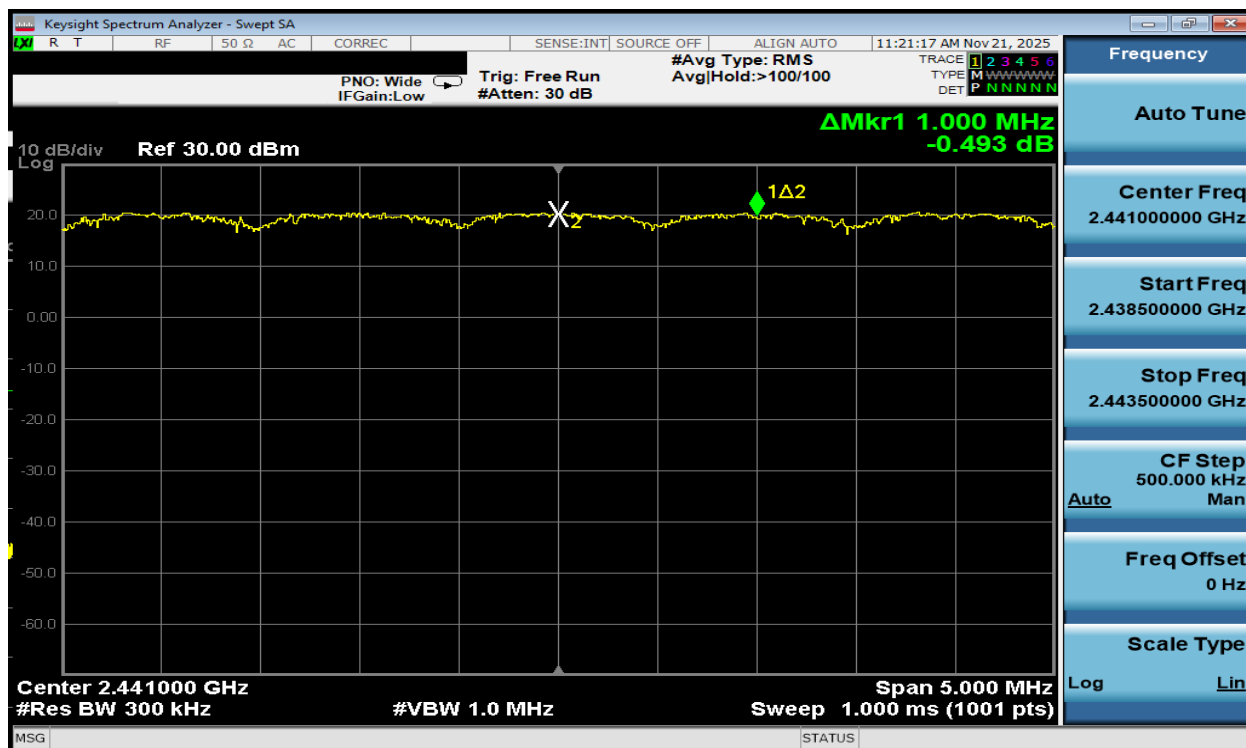
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-31. Channel Spacing Plot Antenna 1a (Bluetooth, GFSK, ePA)



Plot 7-32. Channel Spacing Plot Antenna 1a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6 Time of Occupancy

§15.247 (a)(1)(iii); RSS-247 [6.2.3.1(b)]

Test Overview and Limit

Measurement is made while EUT is operating in hopping mode with the spectrum analyzer set to zero span. ***The maximum permissible time of occupancy is 400 ms within a period of 400ms multiplied by the number of hopping channels employed.***

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 7.8.4

Test Settings

1. Span = zero span, centered on a hopping channel
2. RBW $\leq$ channel spacing and $\gg 1/T$, where T is expected dwell time per channel
3. Sweep = as necessary to capture entire dwell time. Second plot may be required to demonstrate two successive hops on a channel
4. Trigger is set with appropriate trigger delay to place pulse near the center of the plot
5. Detector = peak
6. Trace mode = max hold
7. Marker-delta function used to determine transmit time per hop

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



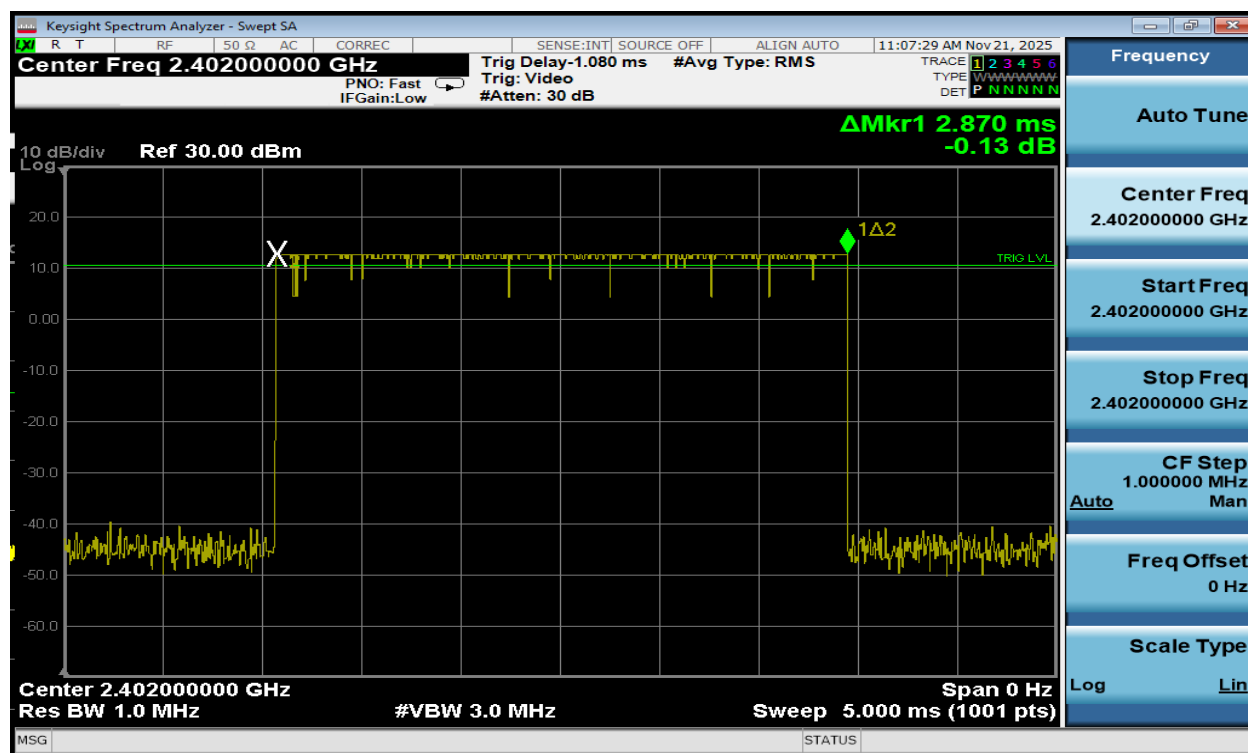
Figure 7-5. Test Instrument & Measurement Setup

Test Notes

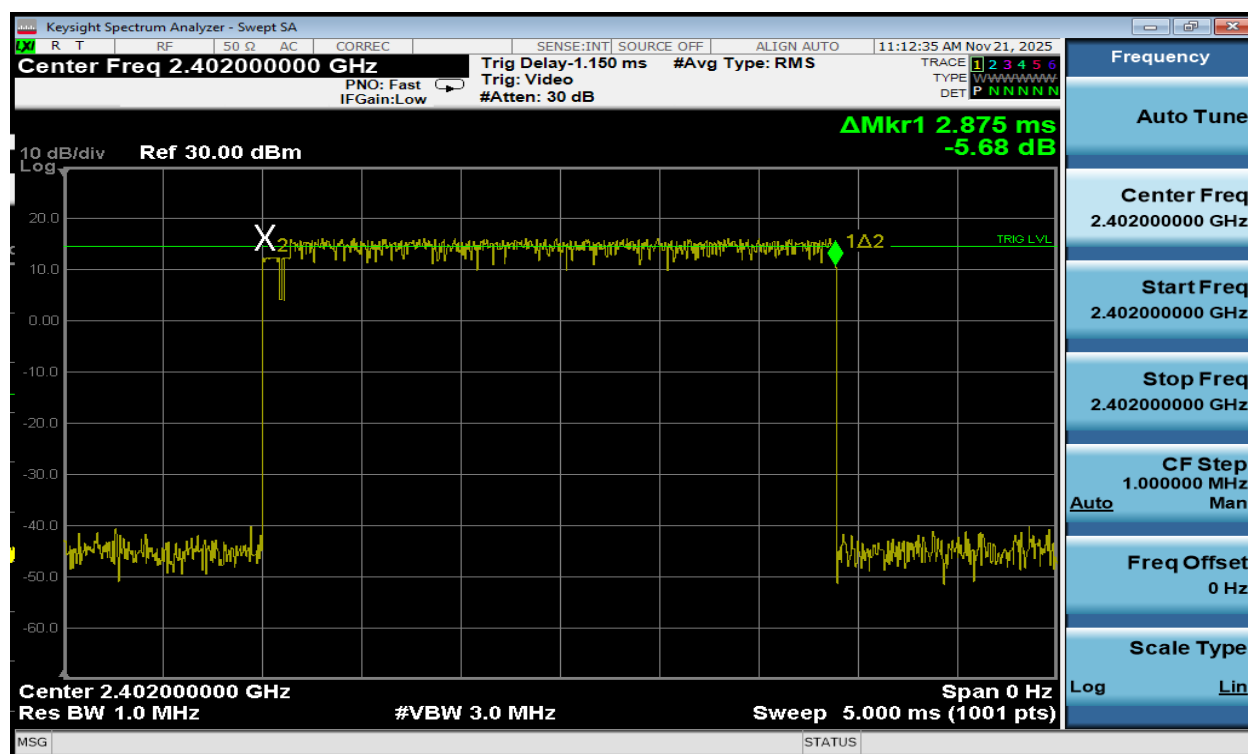
All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.6.1 Antenna 3a



Plot 7-33. Time of Occupancy Plot Antenna 3a (Bluetooth, GFSK, ePA)



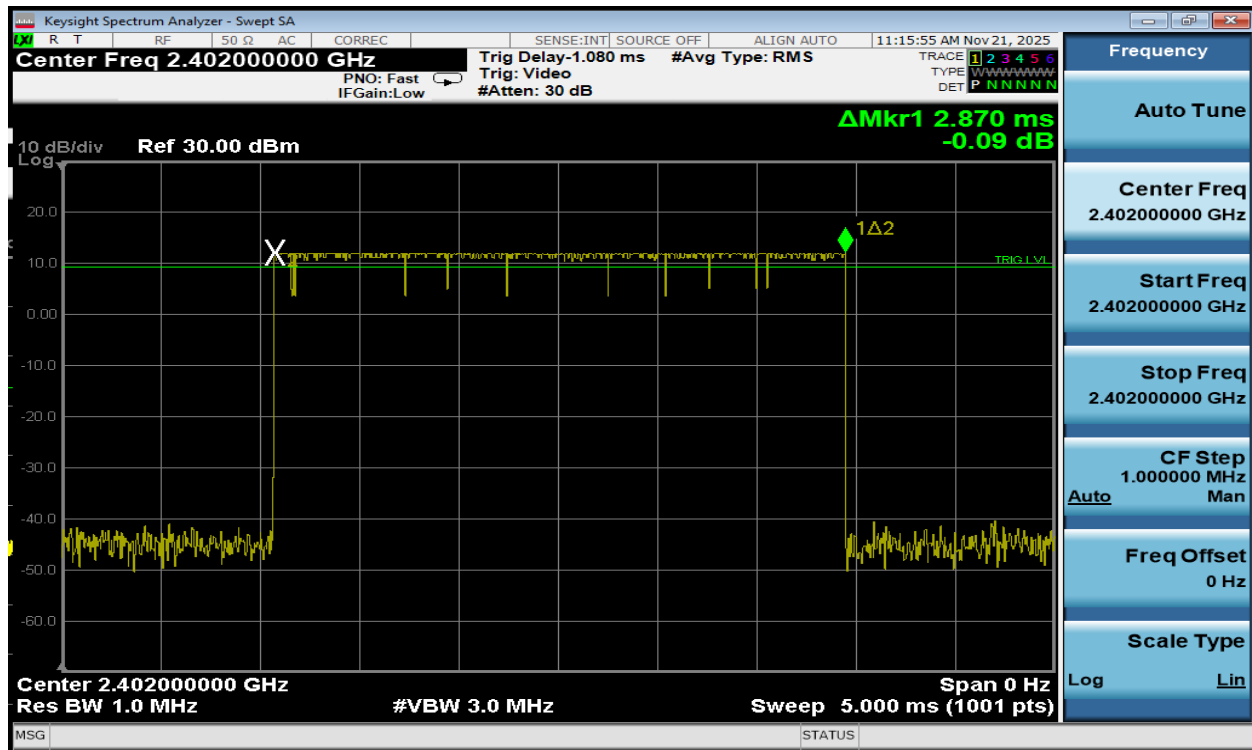
Plot 7-34. Time of Occupancy Plot Antenna 3a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-18-R3.BCG	Test Dates: 09/11/2025 - 12/03/2025	EUT Type: Tablet Device	Page 44 of 82

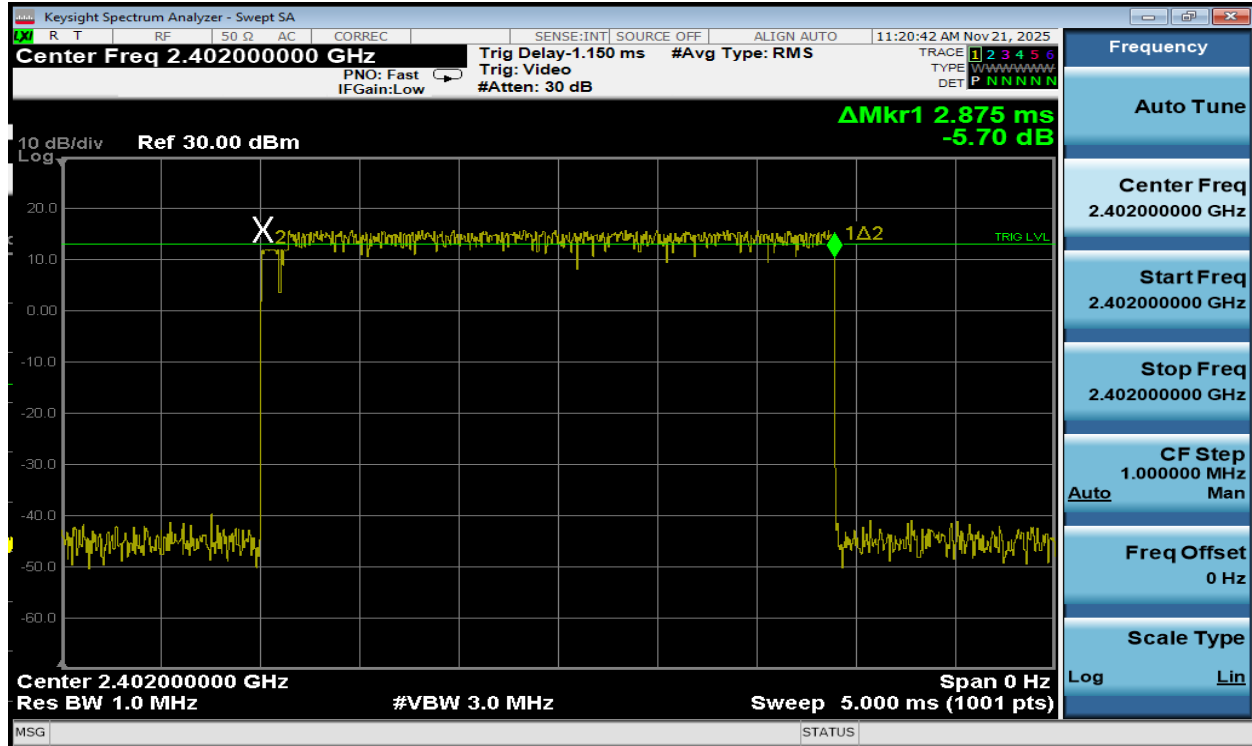
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7.6.2 Antenna 1a



Plot 7-35. Time of Occupancy Plot Antenna 1a (Bluetooth, GFSK, ePA)



Plot 7-36. Time of Occupancy Plot Antenna 1a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Bluetooth Time of Occupancy Calculation

Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot

- $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)
- Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)
- $266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)
- $3.38 \text{ hops/second/channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (# hops over a 31.6 second period)
- $106.67 \text{ hops} \times 2.875 \text{ ms/channel} = 306.68 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800 hops/s. AFH mode also uses 6 total slots so the Bluetooth transmitter hops at a rate of $800 / 6 = 133.3$ hops/s/slot

- $400\text{ms} \times 20$ hopping channels = 8 sec (Time of Occupancy Limit)
- Worst case BT has 133.3 hops/second/slot (for AFH mode with DH5 operation)
- $133.3 \text{ hops/s} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (# of hops/second on one channel)
- $6.67 \text{ hops/s} / \text{channel} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (# hops over a 8 second period)
- $53.34 \text{ hops} \times 2.875 \text{ ms/channel} = 153.35 \text{ ms}$ (worst case dwell time for one channel in AFH mode)

Test Result

The measured worst case dwell time is below the limit of 0.4s.

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7.7 Number of Hopping Channels

§15.247 (a)(1)(iii); RSS-247 [6.2.3.1(b)]

Test Overview and Limit

Measurement is made while EUT is operating in hopping mode. ***This frequency hopping system must employ a minimum of 15 hopping channels.***

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 7.8.3

Test Settings

1. Span = frequency of band of operation (divided into two plots)
2. RBW < 30% of channel spacing or 20dB bandwidth, whichever is smaller.
3. VBW ≥ RBW
4. Sweep = auto
5. Detector = peak
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

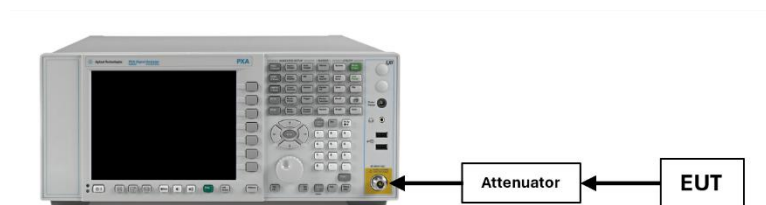


Figure 7-6. Test Instrument & Measurement Setup

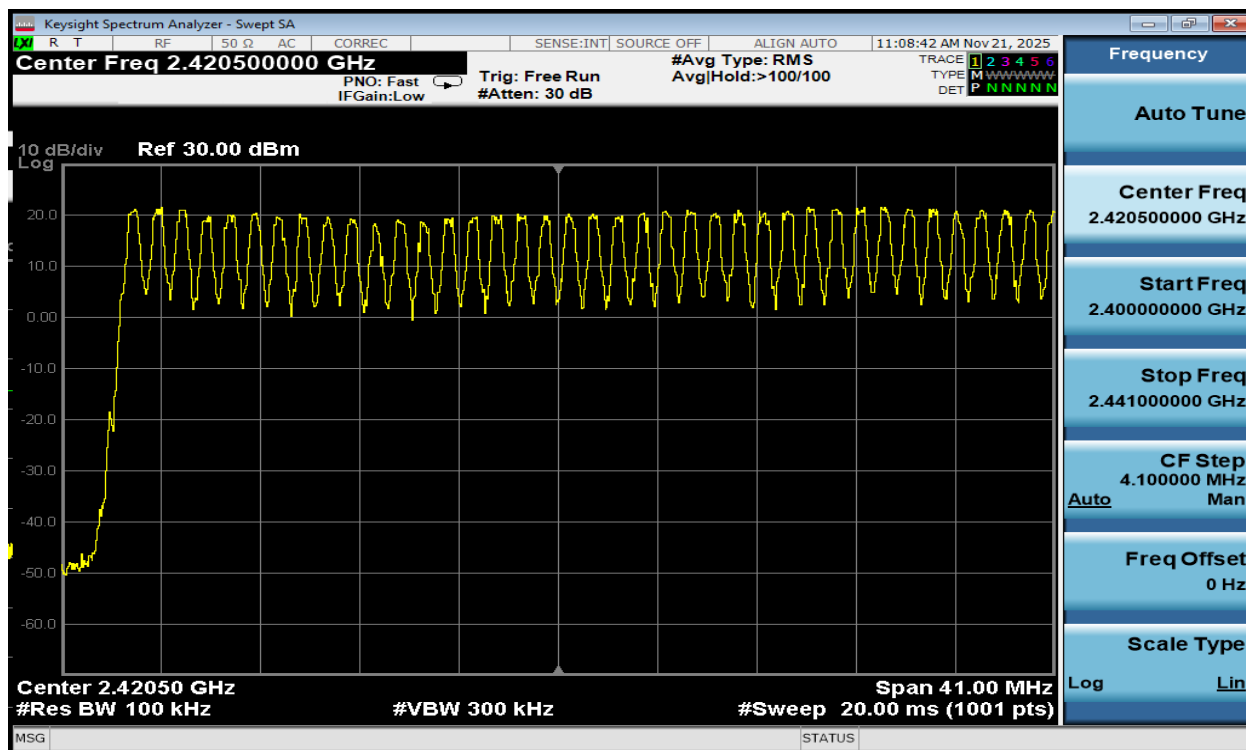
Test Notes

1. The frequency spectrum was broken up into two sub-ranges to clearly show all of the hopping frequencies. In AFH mode, this device operates using 20 channels so the requirement for minimum number of hopping channels is satisfied.
2. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

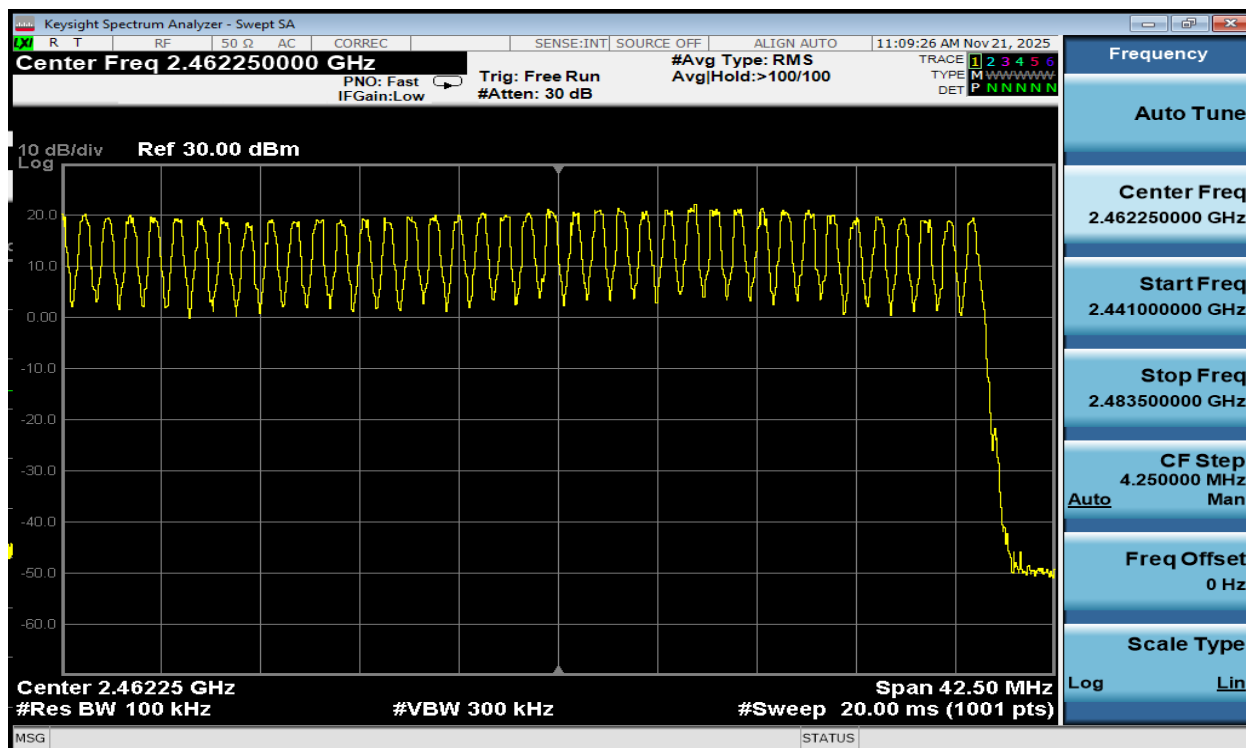
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.7.1 Antenna 3a



Plot 7-37. Low End Spectrum Channel Hopping Plot Antenna 3a (Bluetooth, GFSK, ePA)

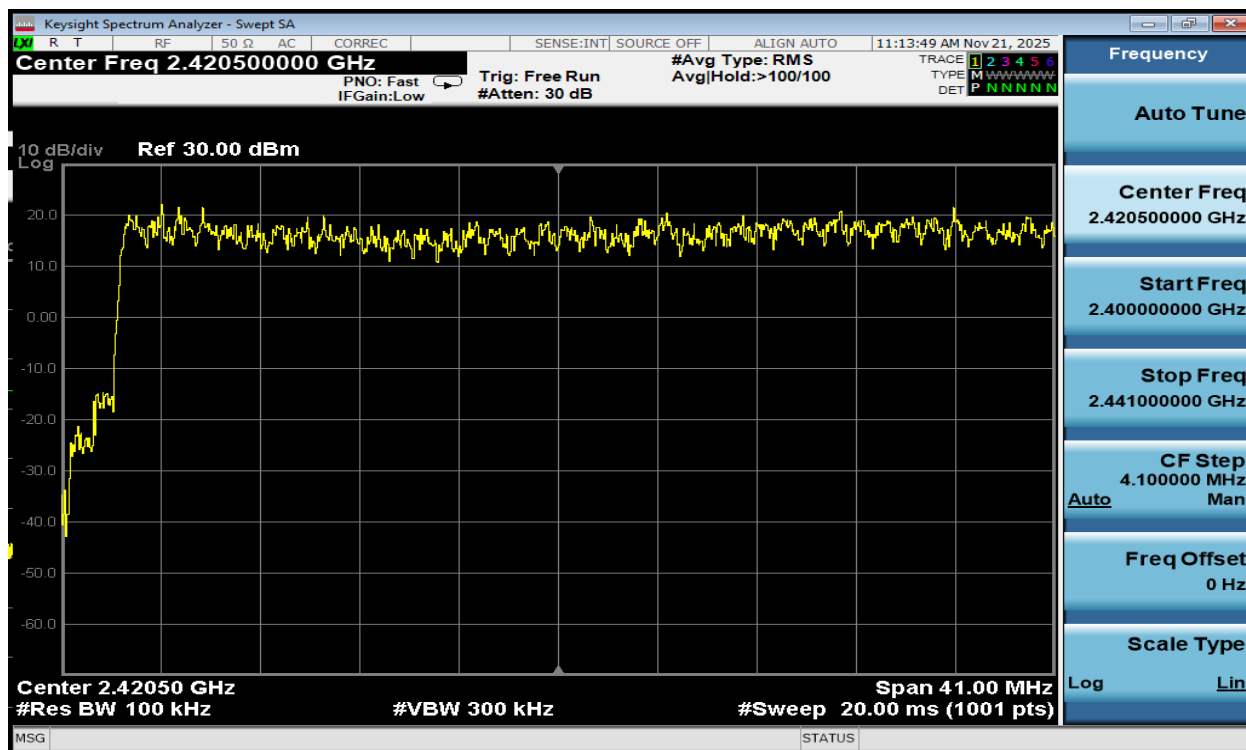


Plot 7-38. High End Spectrum Channel Hopping Plot Antenna 3a (Bluetooth, GFSK, ePA)

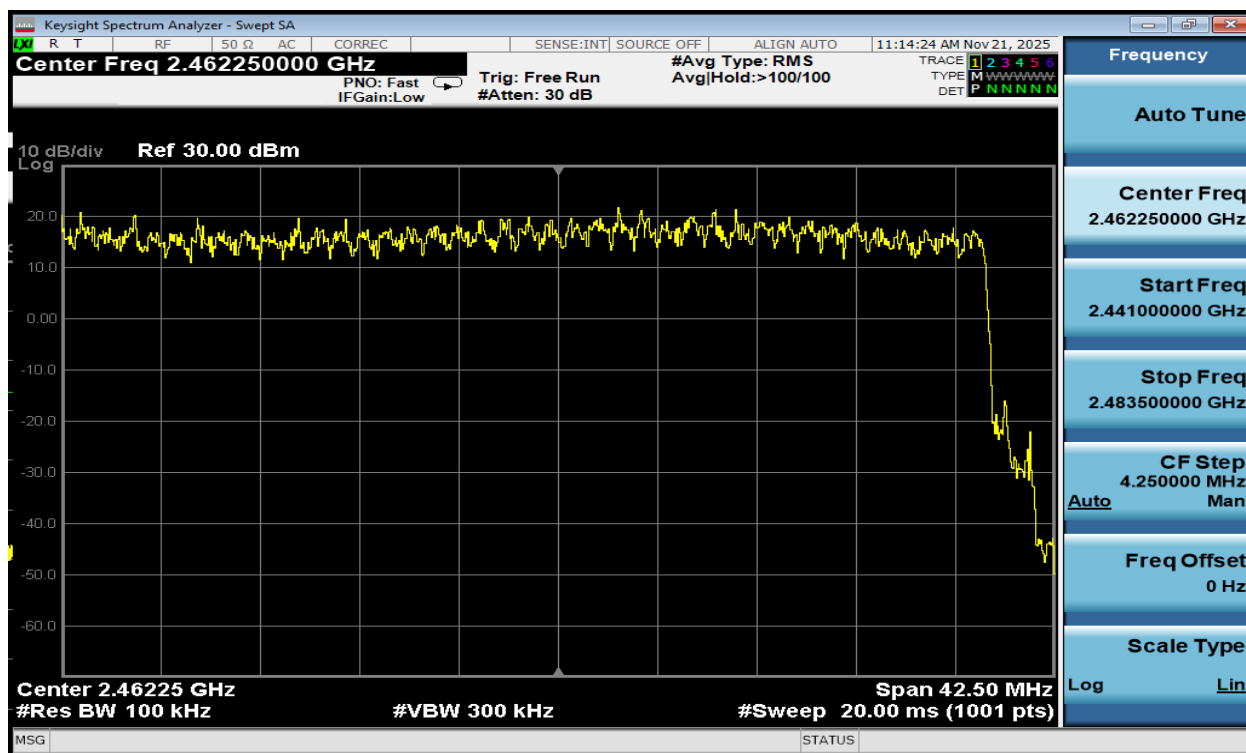
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-39. Low End Spectrum Channel Hopping Plot Antenna 3a (Bluetooth, 8DPSK, ePA)



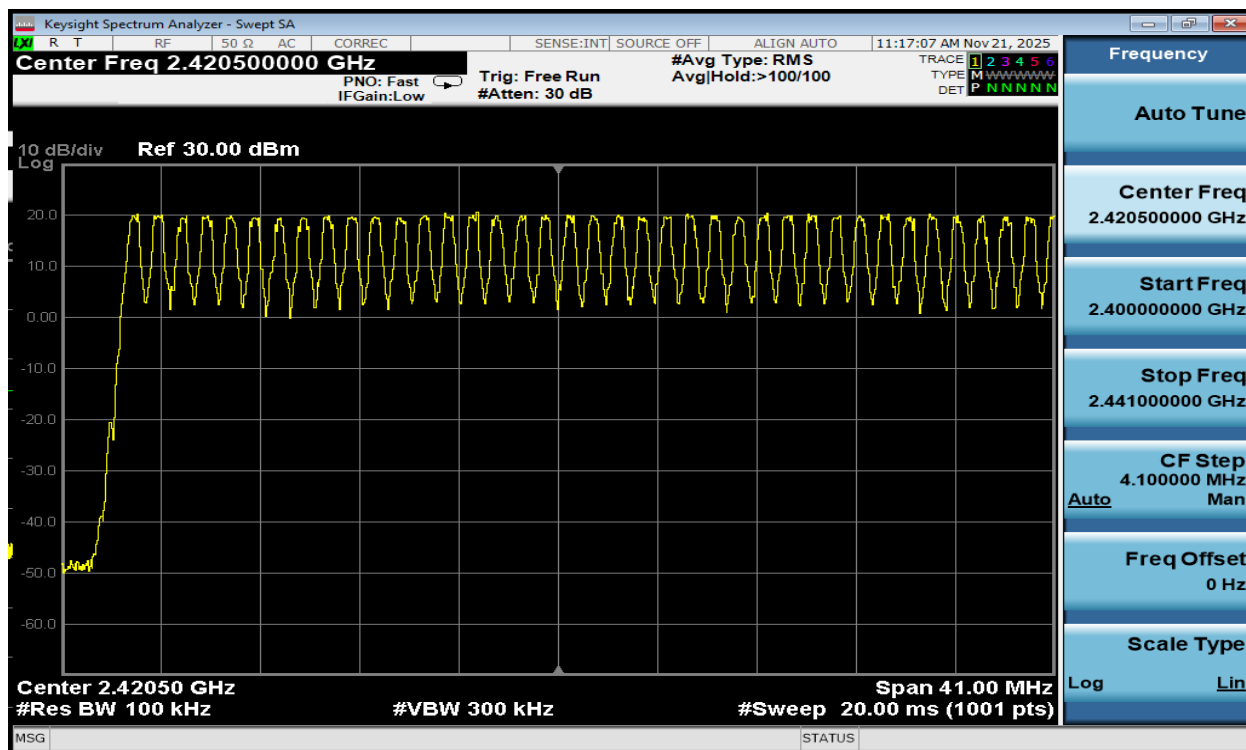
Plot 7-40. High End Spectrum Channel Hopping Plot Antenna 3a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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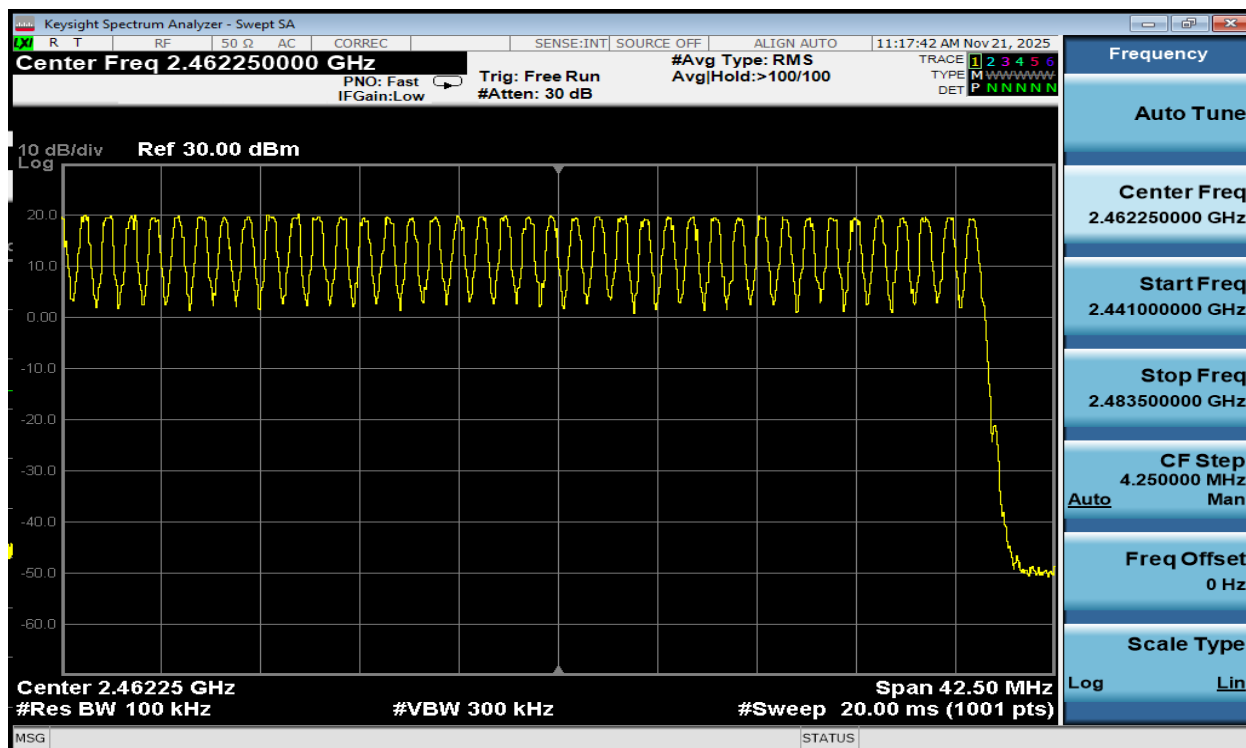
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7.7.2 Antenna 1a



Plot 7-41. Low End Spectrum Channel Hopping Plot Antenna 1a (Bluetooth, GFSK, ePA)

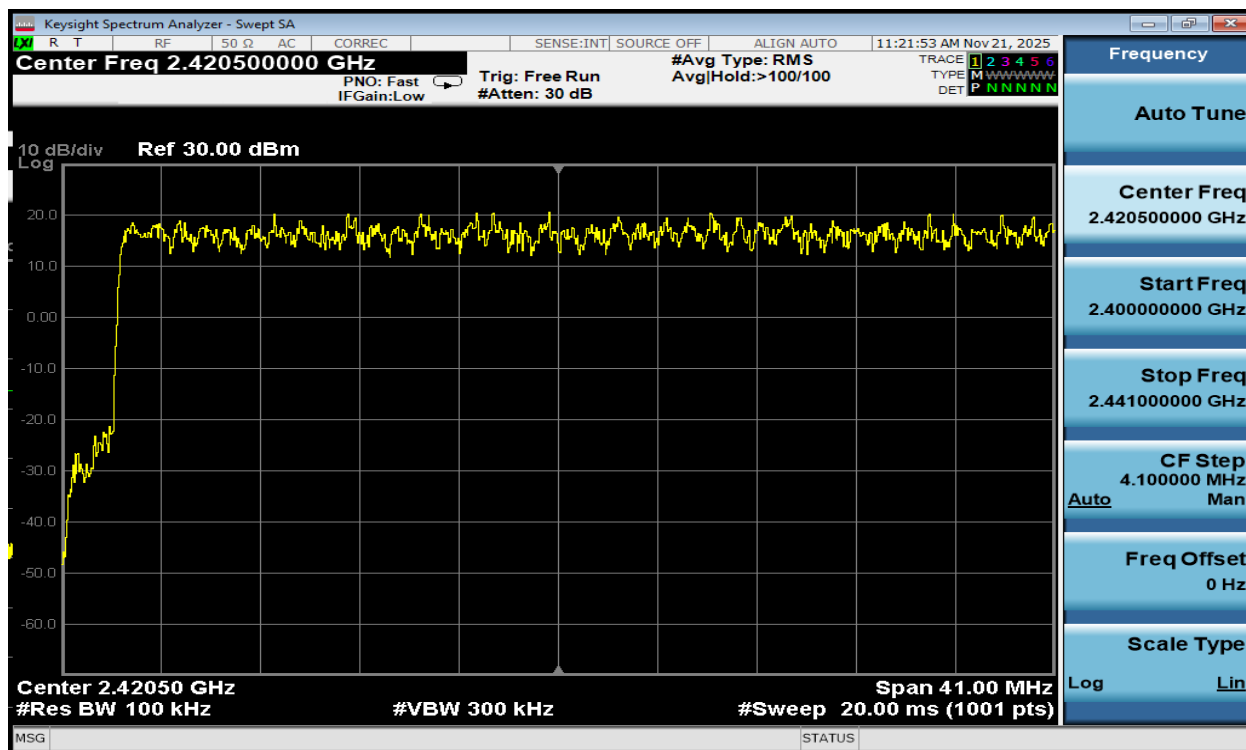


Plot 7-42. High End Spectrum Channel Hopping Plot Antenna 1a (Bluetooth, GFSK, ePA)

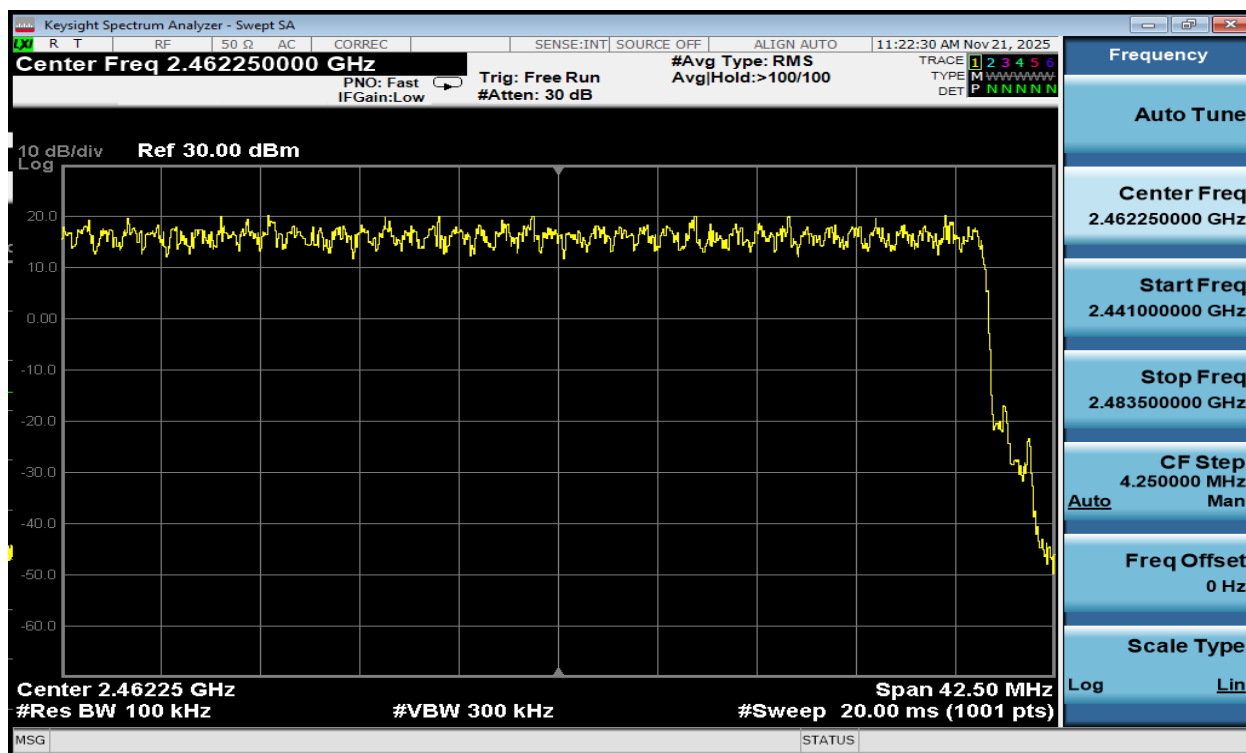
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-43. Low End Spectrum Channel Hopping Plot Antenna 1a (Bluetooth, 8DPSK, ePA)



Plot 7-44. High End Spectrum Channel Hopping Plot Antenna 1a (Bluetooth, 8DPSK, ePA)

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 Conducted Spurious Emissions

§15.247 (d); RSS-247 [6.6]

Test Overview and Limit

Conducted out-of-band spurious emissions were investigated from 30MHz up to 25GHz to include the 10th harmonic of the fundamental transmit frequency. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 7.8.8

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz* (See note below)
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

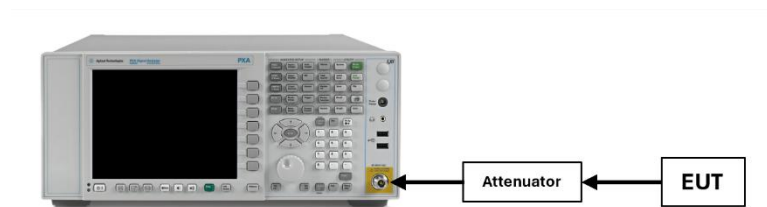


Figure 7-7. Test Instrument & Measurement Setup

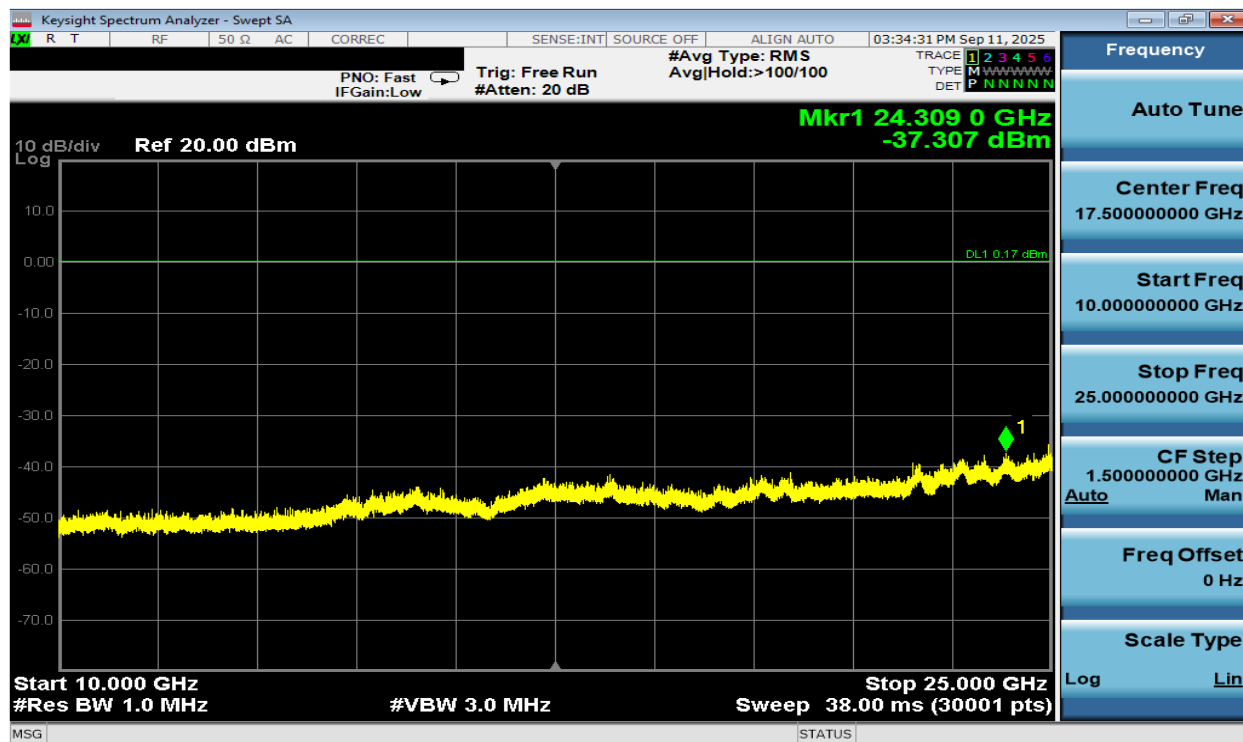
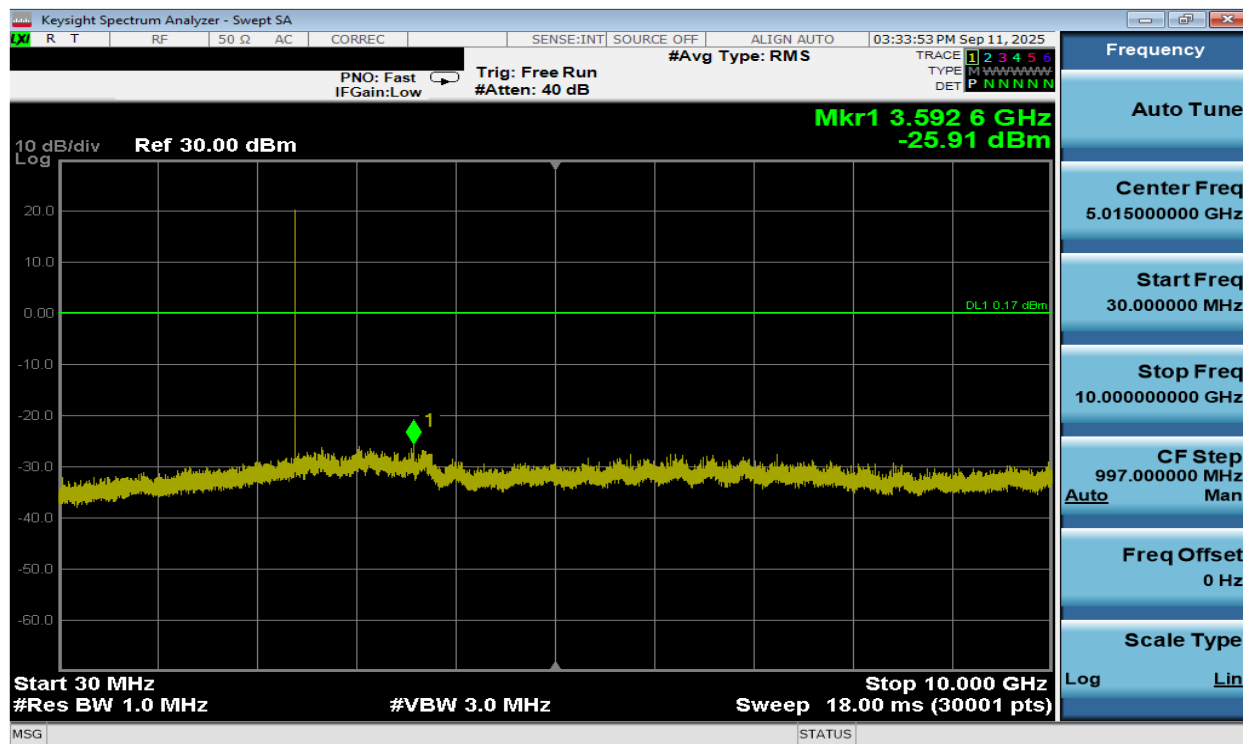
Test Notes

1. Out-of-band conducted spurious emissions were investigated for all data rates and the worst case emissions were found with the EUT transmitting at 1Mbps. The display line shown in the following plots is the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, the traces in the following plots are measured with a 1MHz RBW to reduce test time, so the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
2. The unit was tested with all possible mode and power schemes and only the highest emission is reported.

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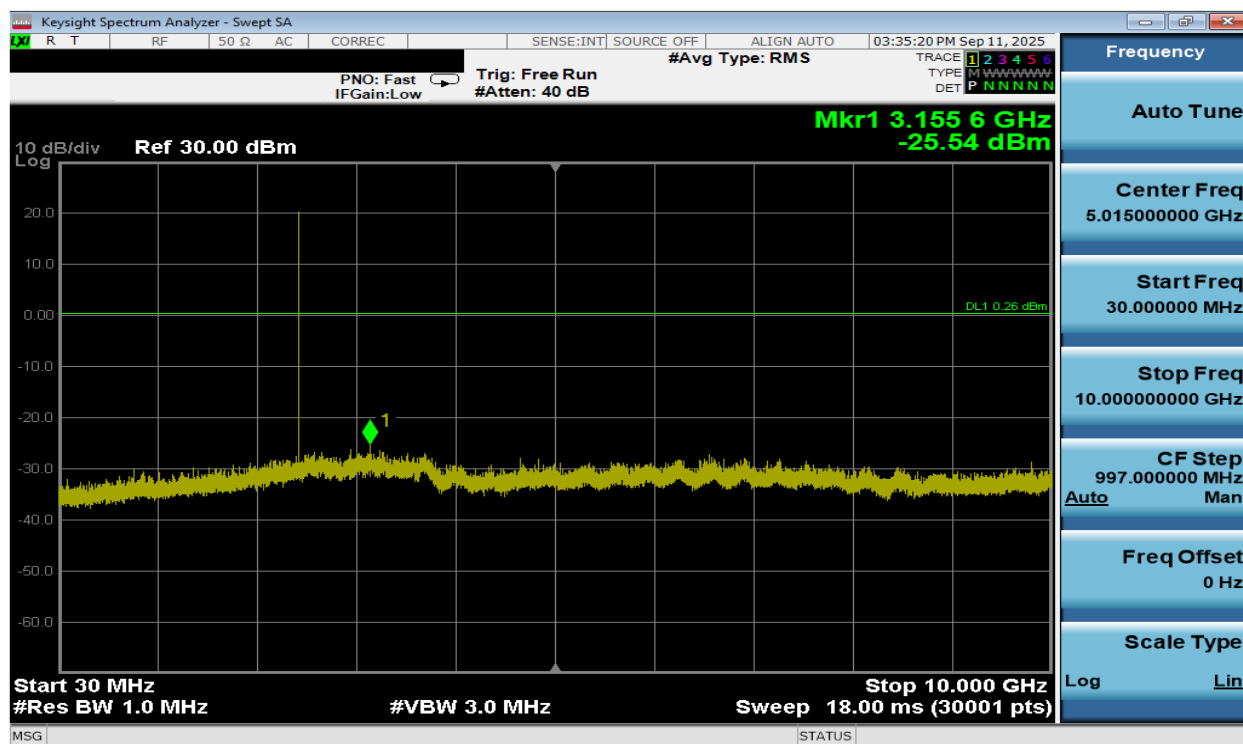
7.8.1 Antenna 3a



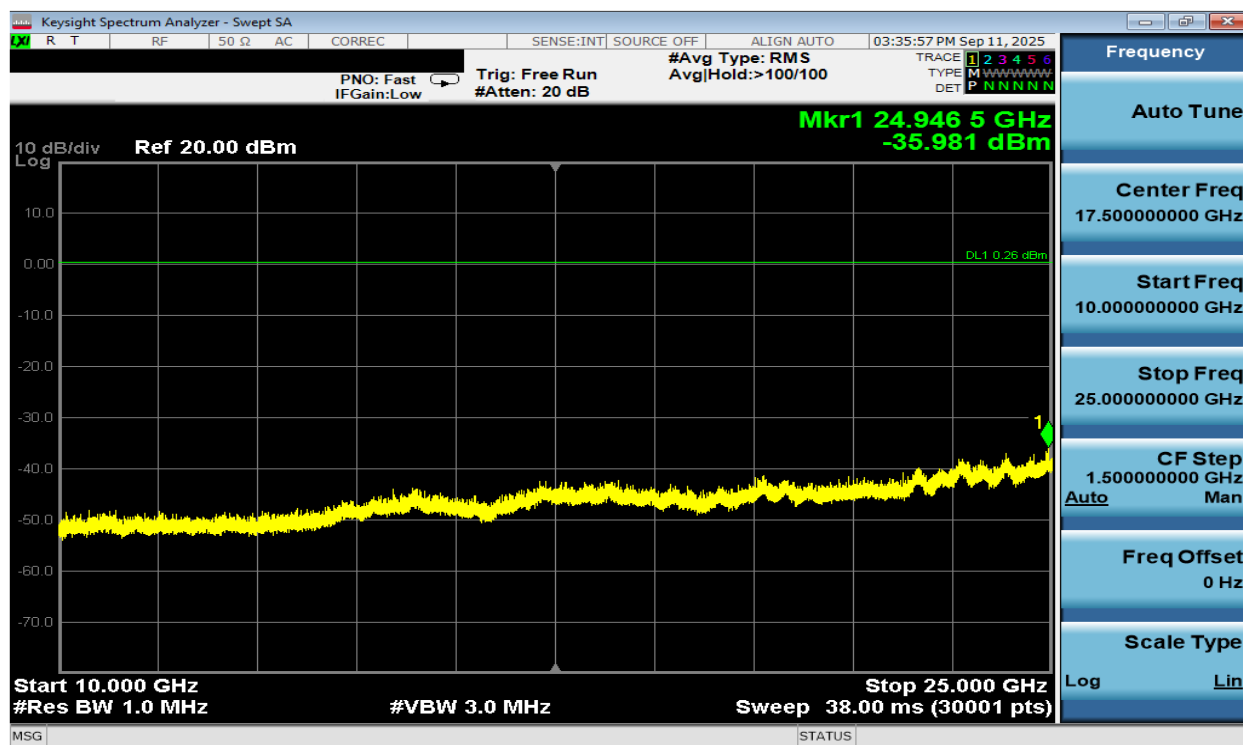
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-47. Conducted Spurious Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 39)

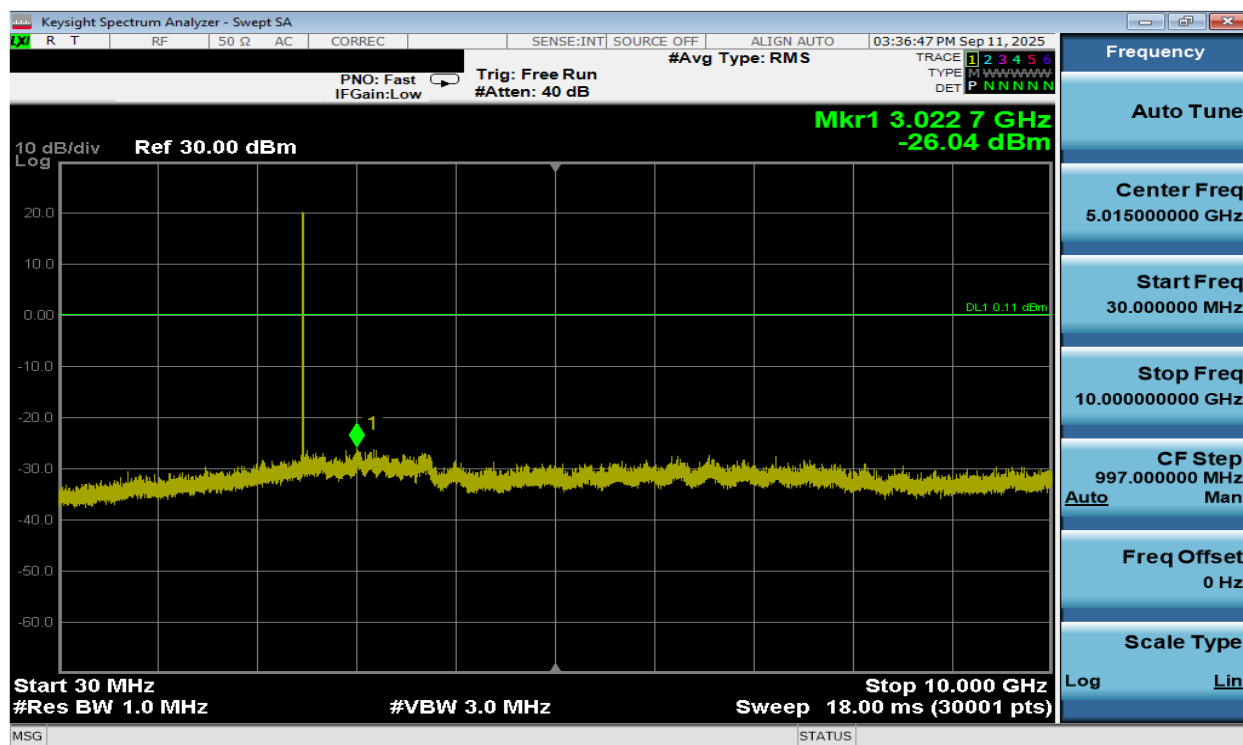


Plot 7-48. Conducted Spurious Plot Antenna 3a (Bluetooth, GFSK, ePA Ch. 39)

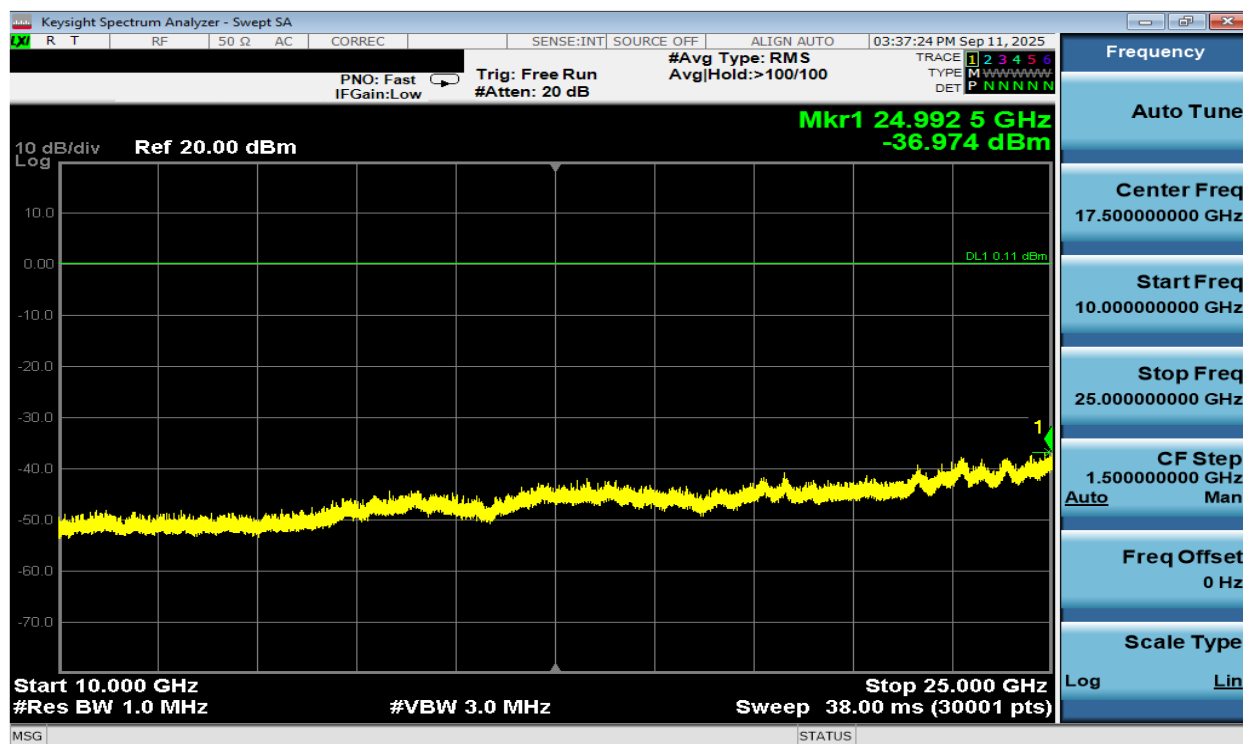
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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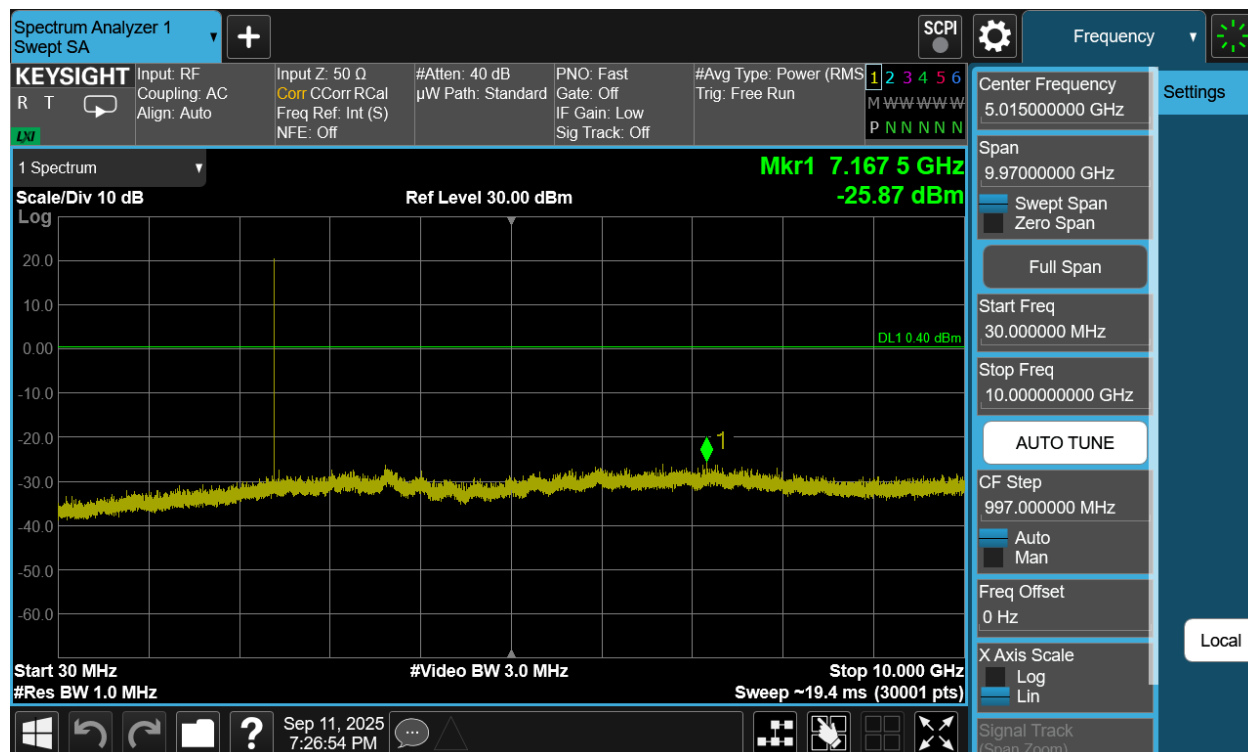
Plot 7-49. Conducted Spurious Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 78)



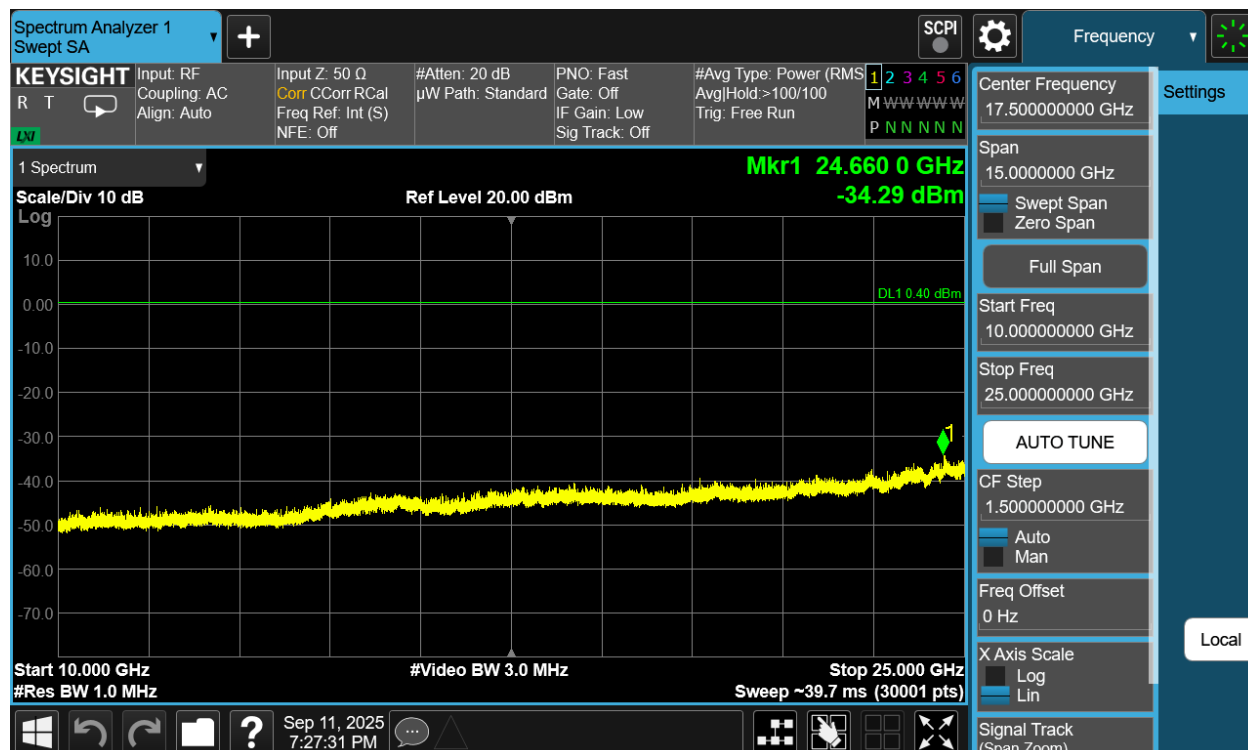
Plot 7-50. Conducted Spurious Plot Antenna 3a (Bluetooth, GFSK, ePA – Ch. 78)

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7.8.2 Antenna 1a



Plot 7-51. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 0)

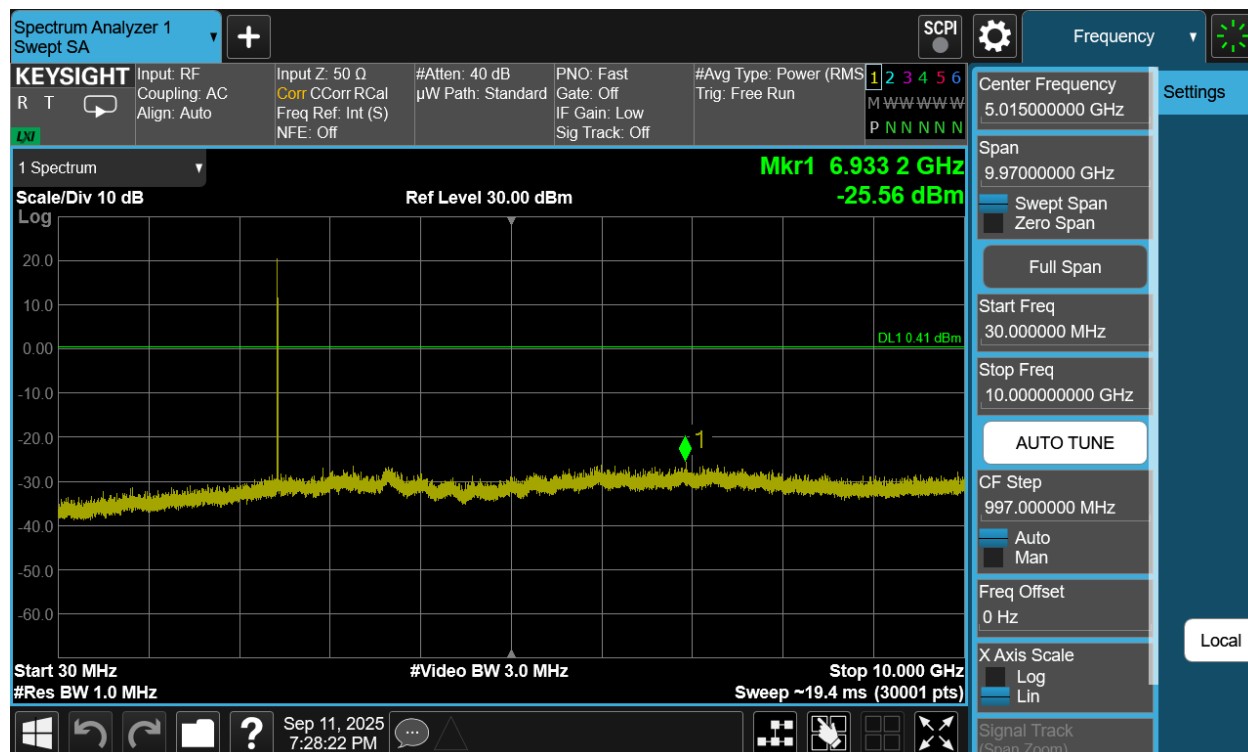


Plot 7-52. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 0)

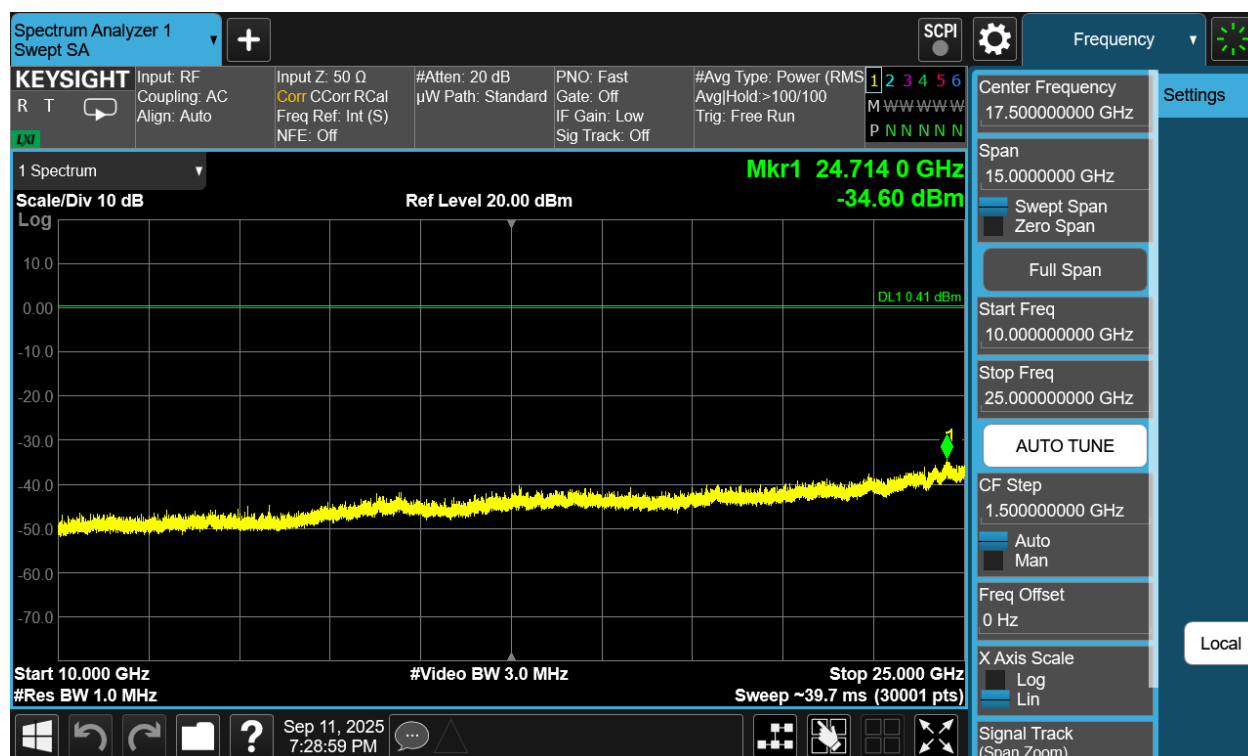
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-53. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 39)

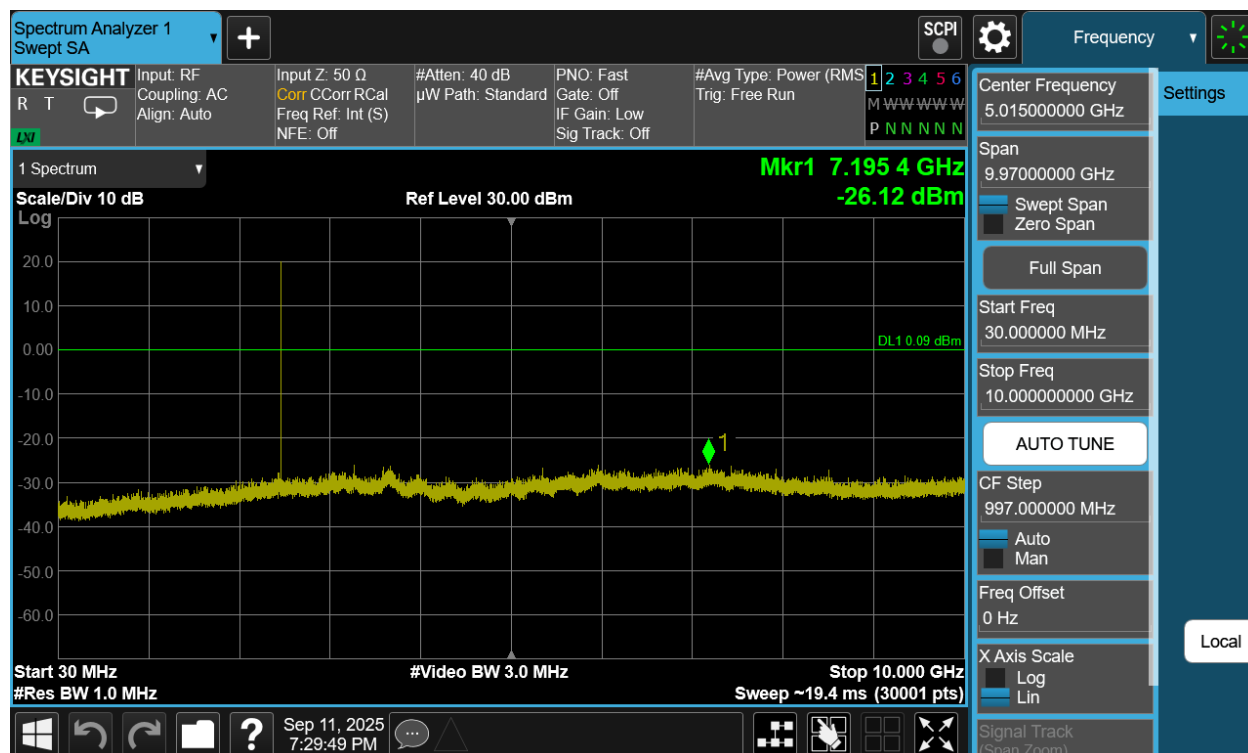


Plot 7-54. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA Ch. 39)

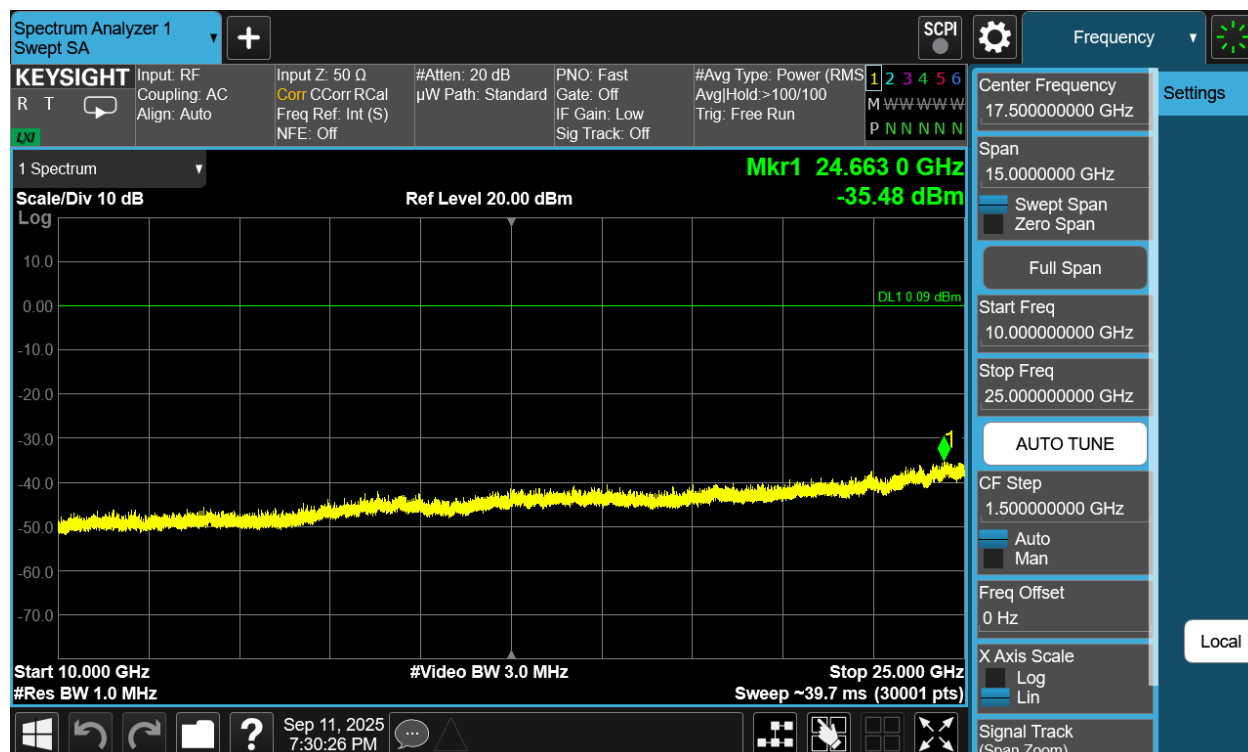
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2509100080-18-R3.BCG	Test Dates: 09/11/2025 - 12/03/2025	EUT Type: Tablet Device	Page 57 of 82

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Plot 7-55. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 78)



Plot 7-56. Conducted Spurious Plot Antenna 1a (Bluetooth, GFSK, ePA – Ch. 78)

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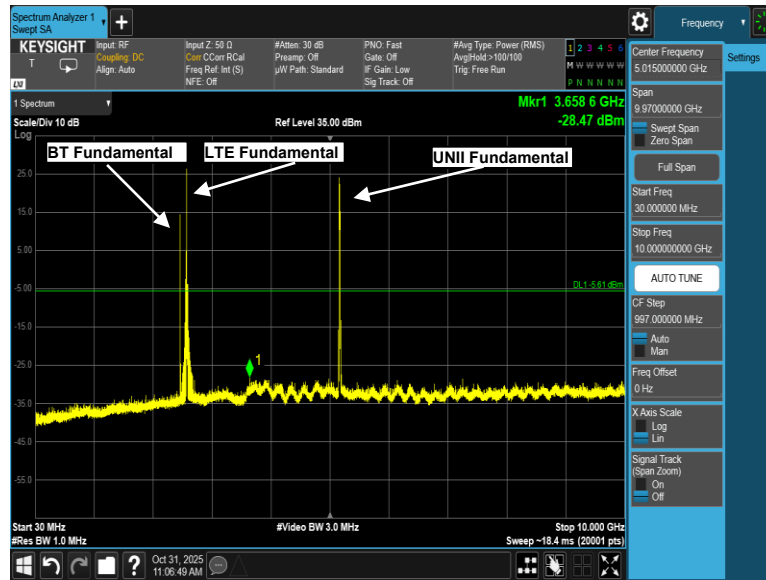
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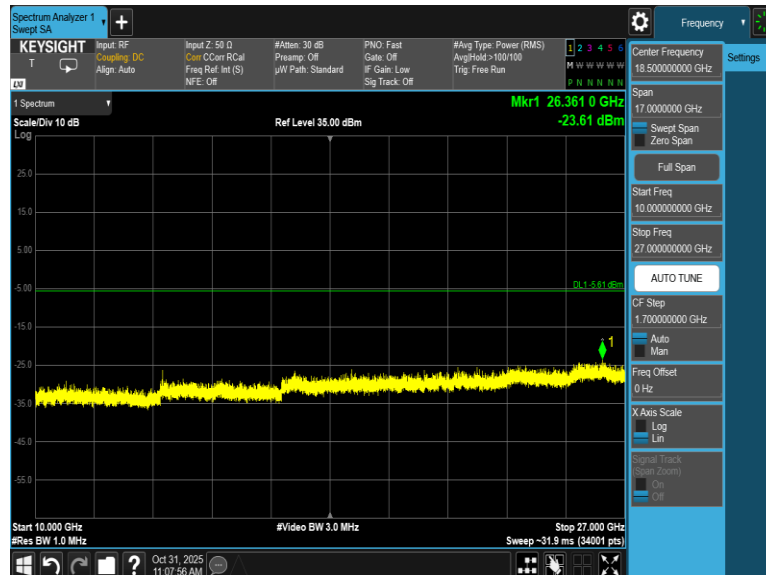
7.8.3 Simultaneous Tx

Description	Bluetooth	UNII	LTE (Band 41)
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	78	36	40640
Operating Frequency (MHz)	2480	5180	2595
Mode/Modulation	GFSK ePA	802.11n	QPSK/1RB/20MHz

Table 7-12. Worst Case Simultaneous Transmission Configuration



Plot 7-57. Conducted Simultaneous Tx Spurious Plot Antenna 3a (Bluetooth + UNII + LTE Band 41)



Plot 7-58. Conducted Simultaneous Tx Spurious Plot Antenna 3a (Bluetooth + UNII + LTE Band 41)

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7.9 Radiated Spurious Emissions – Above 1GHz

§15.205 §15.209 §15.247 (d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 6.6.4.3

Test Settings

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

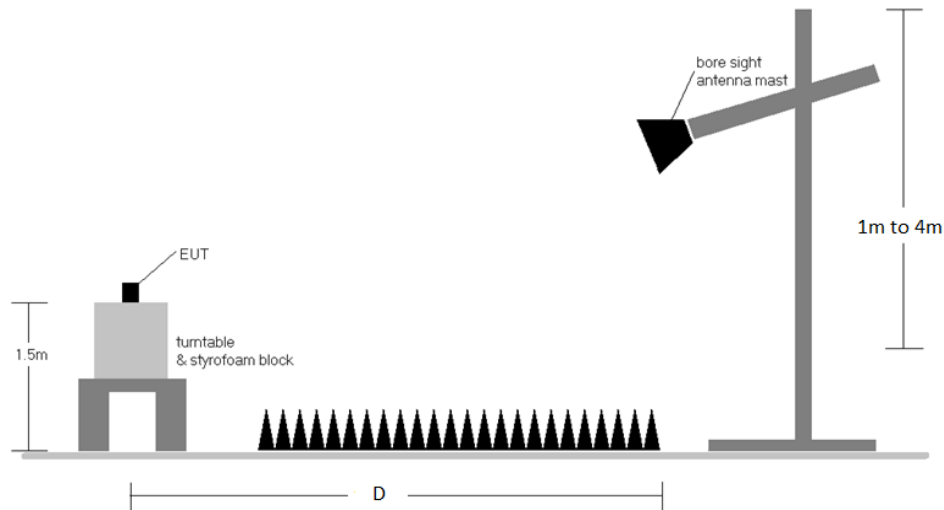


Figure 7-8. Radiated Test Setup >1GHz

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
5. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
9. Average emissions were not reported since the duty cycle correction factor was greater than 20dB.

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Sample Calculation

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.9.3 to 7.9.5 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Duty Cycle Correction Factor Calculation

- Channel hop rate = 800 hops/second (AFH Mode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.50 \text{ ms}$
- Time to cycle through all channels = $7.50 \times 20 \text{ channels} = 150 \text{ ms}$
- Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
- Worst case dwell time = 7.5 ms

Duty cycle correction factor = $20\log_{10}(7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

Average Emission Calculation

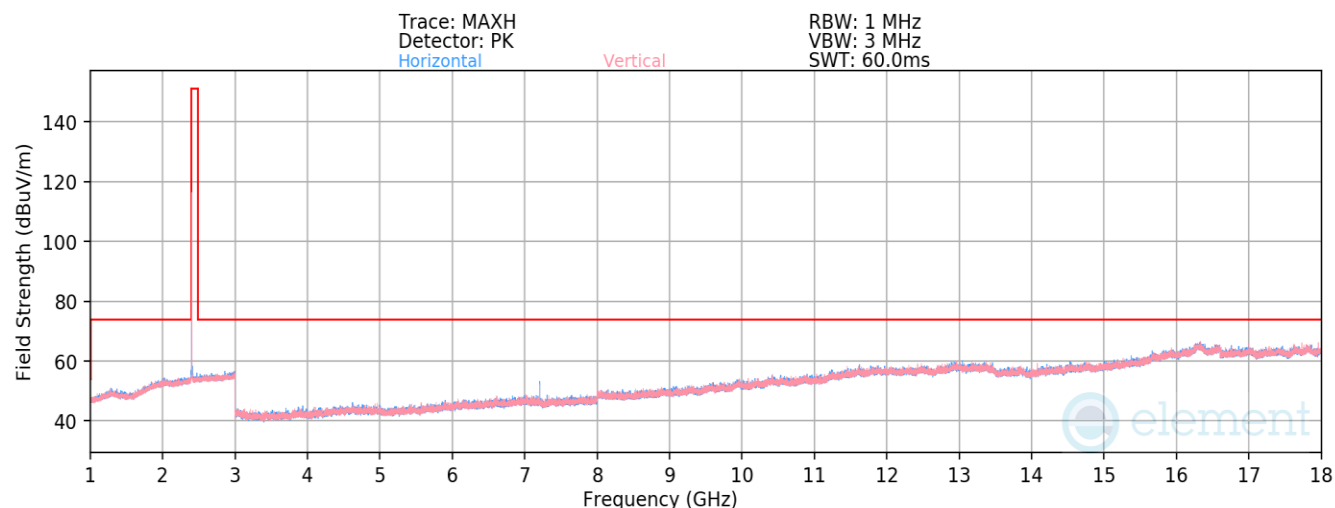
- Average Emission = Measured Peak Emissions $_{[dB\mu V/m]} - \text{Duty Cycle Correction Factor }_{[dB]}$

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7.9.1 TxBF Radiated Spurious Emission Measurements (Above 1GHz)



Plot 7-59. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 0)

Bluetooth Mode: GFSK
Data Rate: 1Mbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

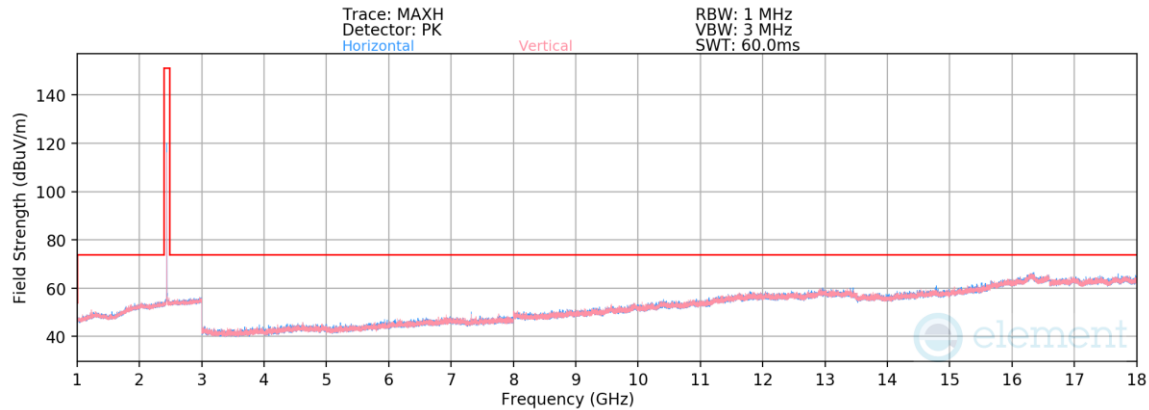
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Peak	H	-	-	-69.27	7.64	45.37	73.98	-28.61
12010.00	Peak	H	-	-	-66.86	17.14	57.28	73.98	-16.70

Table 7-14. Radiated Measurements TxBF

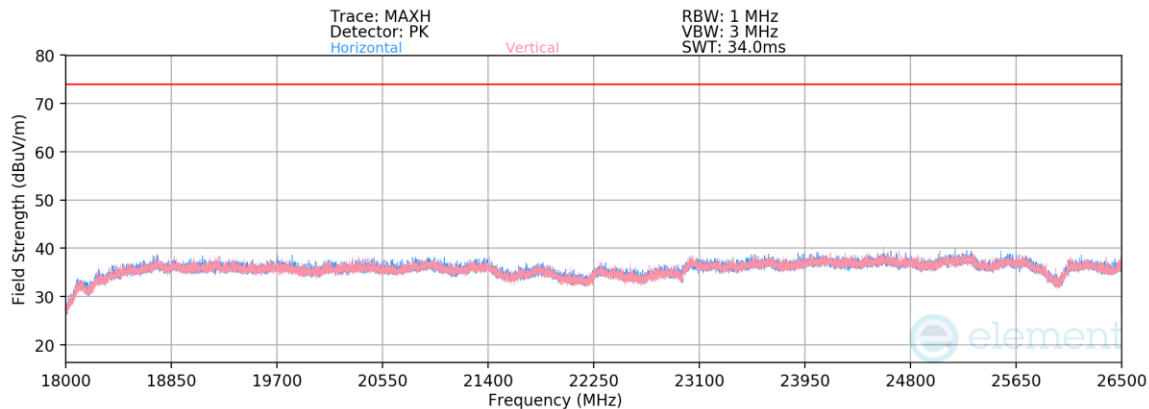
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-60. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 39)



Plot 7-61. Radiated Spurious Emissions above 18GHz TxBF (BT GFSK ePA – Ch. 39)

Bluetooth Mode:	GFSK
Data Rate:	1Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2441MHz
Channel:	39

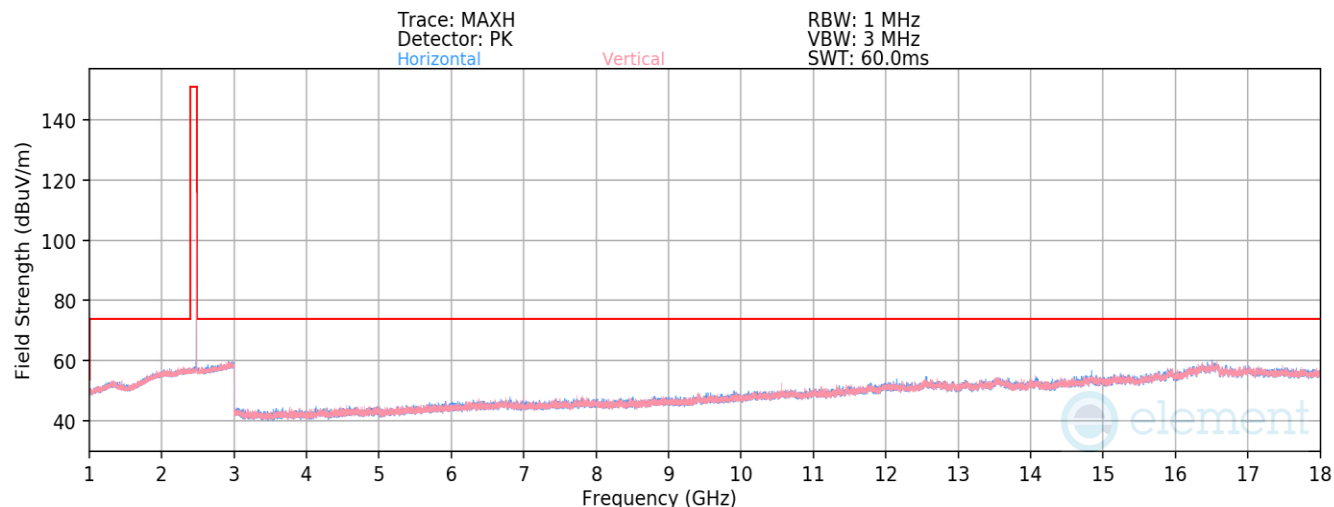
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Dist. Corr. Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4882.00	Peak	H	-	-	-69.03	7.64	0.00	45.61	73.98	-28.37
7323.00	Peak	V	290	173	-66.64	11.20	0.00	51.56	73.98	-22.42
12205.00	Peak	V	-	-	-67.36	17.39	0.00	57.03	73.98	-16.95
19528.00	Peak	V	-	-	-60.21	-5.92	-9.54	31.33	73.98	-42.65

Table 7-15. Radiated Measurements TxBF

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-62. Radiated Spurious Emissions above 1GHz TxBF (BT GFSK ePA – Ch. 78)

Bluetooth Mode: GFSK
Data Rate: 1Mbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4960.00	Peak	V	-	-	-69.74	7.95	45.21	73.98	-28.77
7440.00	Peak	V	233	175	-68.98	11.30	49.32	73.98	-24.66
12400.00	Peak	V	-	-	-72.93	17.75	51.82	73.98	-22.16

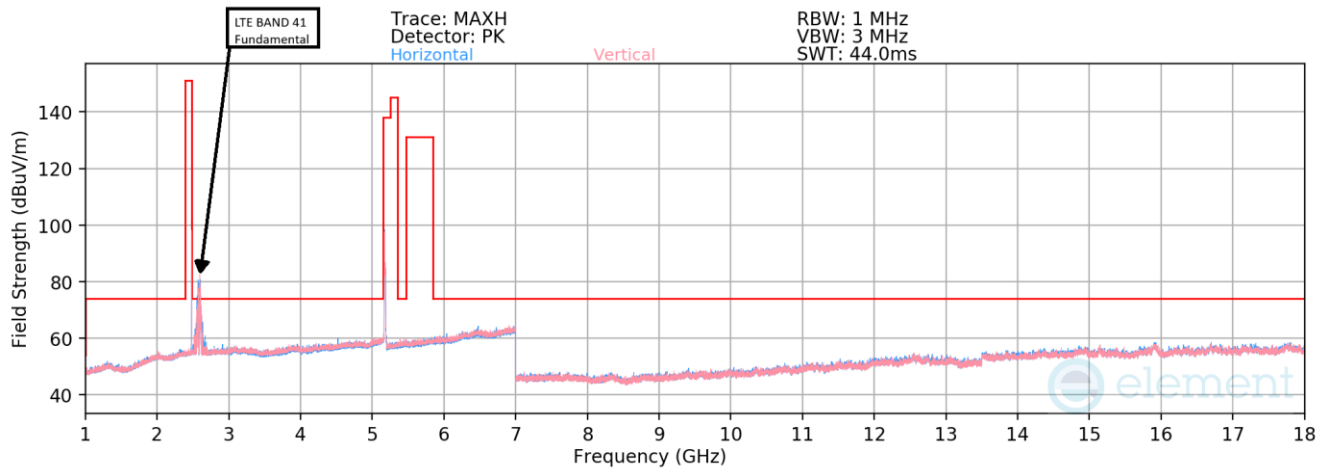
Table 7-16. Radiated Measurements TxBF

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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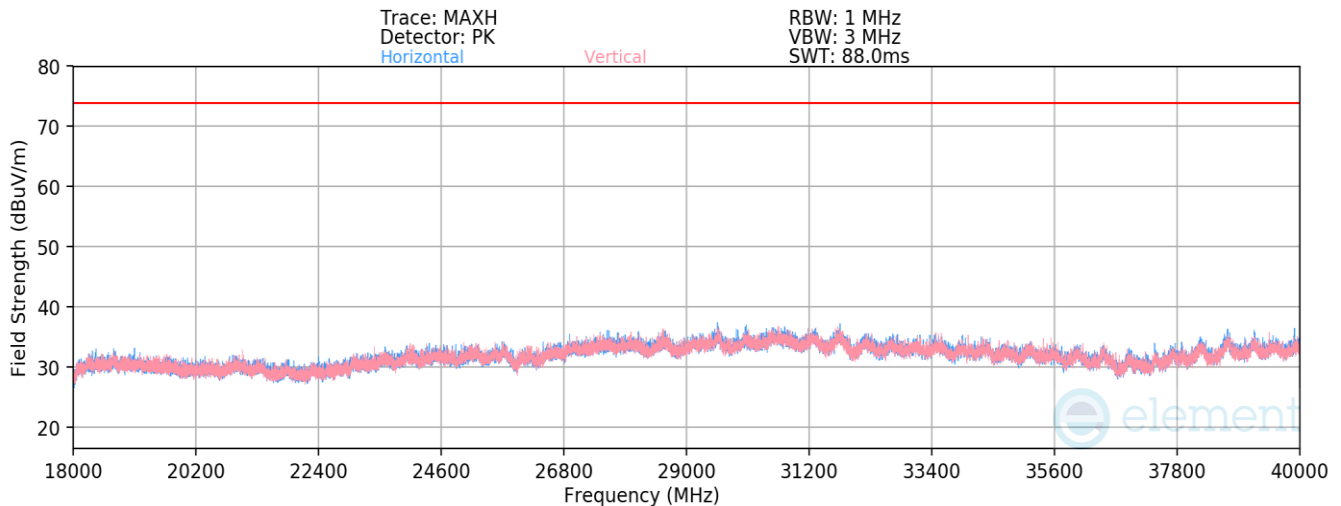
7.9.2 Simultaneous Tx Radiated Spurious Emission (Above 1GHz)

Description	Bluetooth	UNII	LTE (Band 41)
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	78	36	40640
Operating Frequency (MHz)	2480	5180	2595
Mode/Modulation	GFSK ePA	802.11n	QPSK/1RB/20MHz

Table 7-17. Worst Case Simultaneous Transmission Configuration



Plot 7-63. Radiated Spurious Emissions above 1GHz – Simultaneous Transmission



Plot 7-64. Radiated Spurious Emissions above 18GHz – Simultaneous Transmission

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	-	-	-	-80.05	6.62	33.57	53.98	-20.41
4960.00	Peak	-	-	-	-68.06	6.62	45.56	73.98	-28.42
7440.00	Avg	-	-	-	-81.19	10.32	36.13	53.98	-17.85
7440.00	Peak	-	-	-	-70.20	10.32	47.12	73.98	-26.86
* 9920.00	Avg	-	-	-	-82.36	13.76	38.40	53.98	-15.58
* 9920.00	Peak	-	-	-	-70.59	13.76	50.17	68.20	-18.03
12400.00	Avg	-	-	-	-84.17	18.65	41.48	53.98	-12.50
12400.00	Peak	-	-	-	-73.33	18.65	52.32	73.98	-21.66

Table 7-18. Bluetooth Emissions Measurement – Simultaneous Transmission

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Avg	-	-	-	-82.71	14.98	39.27	53.98	-14.71
10360.00	Peak	-	-	-	-70.81	14.98	51.17	68.23	-17.06
15540.00	Avg	-	-	-	-85.33	22.41	44.08	53.98	-9.90
15540.00	Peak	-	-	-	-73.88	22.41	55.53	73.98	-18.45

Table 7-19. UNII Emissions Measurement – Simultaneous Transmission

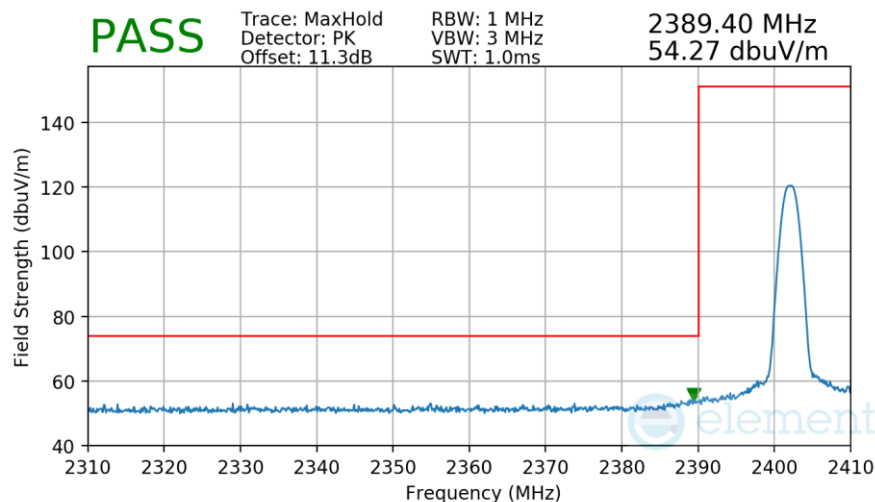
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dBm]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5170.00	-	-	-	-79.80	7.40	34.6	-60.63	-25.0	-35.6
7755.00	-	-	-	-80.70	10.51	36.8	-58.41	-25.0	-33.4
* 10340.00	-	-	-	-81.82	14.36	39.5	-55.69	-25.0	-30.7
* 12925.00	-	-	-	-83.79	19.78	43.0	-52.24	-25.0	-27.2
15510.00	-	-	-	-84.66	22.12	44.5	-50.77	-25.0	-25.8
2690.00*	H	104	214	-68.17	21.60	60.4	-34.80	-25.0	-9.8

Table 7-20. LTE Emissions Measurement – Simultaneous Transmission

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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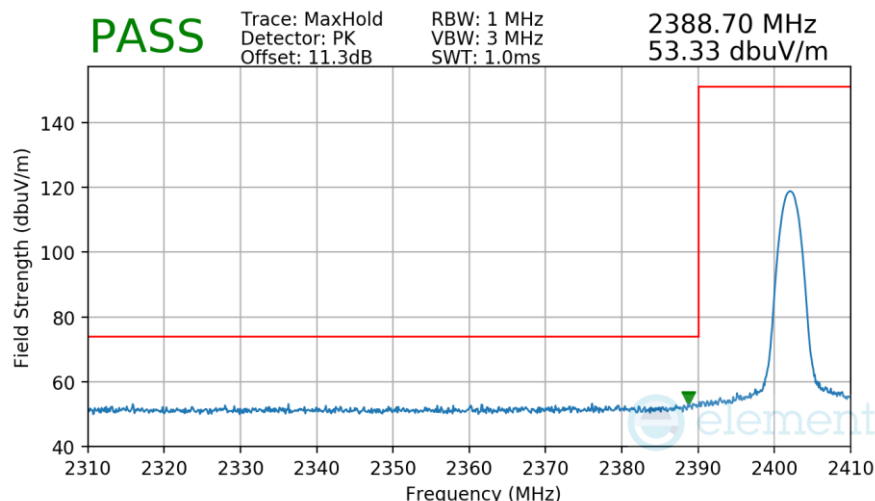
7.9.3 Antenna 3a Radiated Restricted Band Edge Measurements

Bluetooth Mode: GFSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0



Plot 7-65. Radiated Restricted Lower Band Edge Measurement Antenna 3a

Bluetooth Mode: 8DPSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0

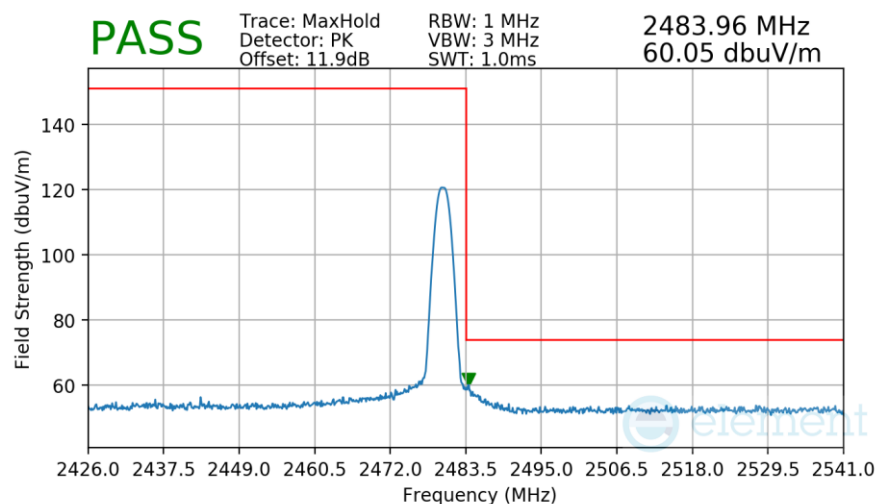


Plot 7-66. Radiated Restricted Lower Band Edge Measurement Antenna 3a

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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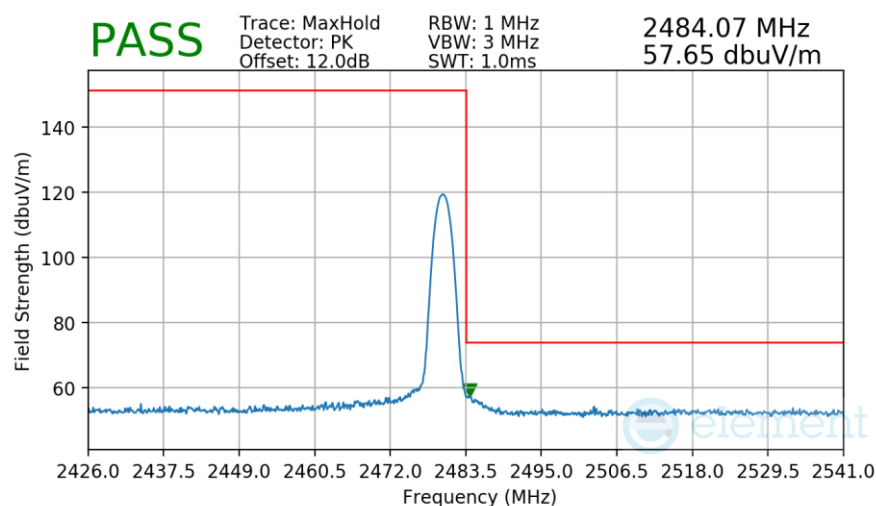
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Bluetooth Mode:	GFSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-67. Radiated Restricted Upper Band Edge Measurement Antenna 3a

Bluetooth Mode:	8DPSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-68. Radiated Restricted Upper Band Edge Measurement Antenna 3a

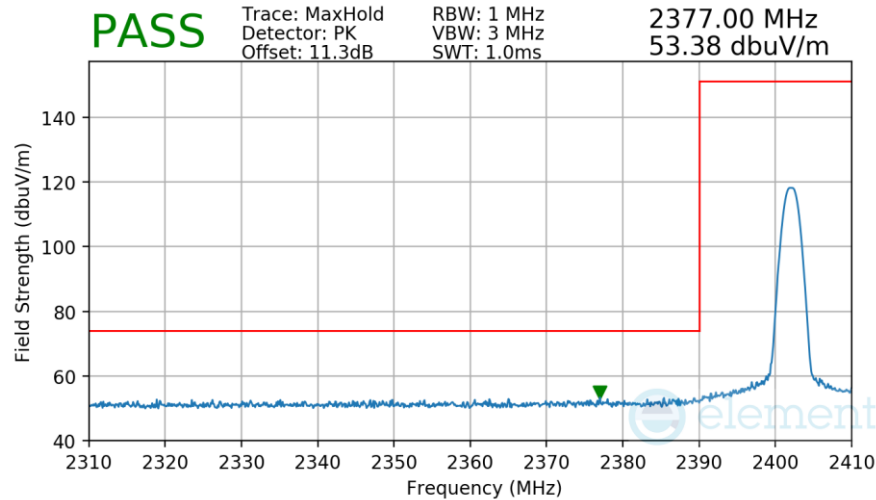
FCC ID: BCGA3460 IC: 579C-A3460	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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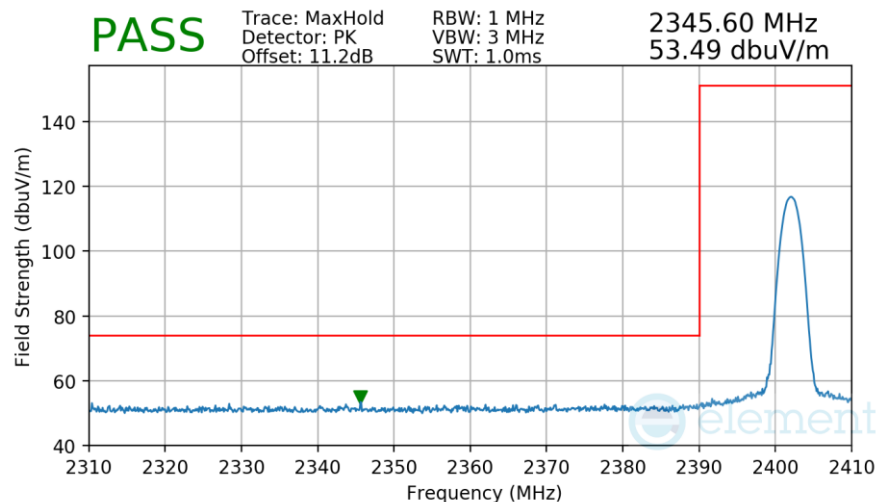
7.9.4 Antenna 1a Radiated Restricted Band Edge Measurements

Bluetooth Mode: GFSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0



Plot 7-69. Radiated Restricted Lower Band Edge Measurement Antenna 1a

Bluetooth Mode: 8DPSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0

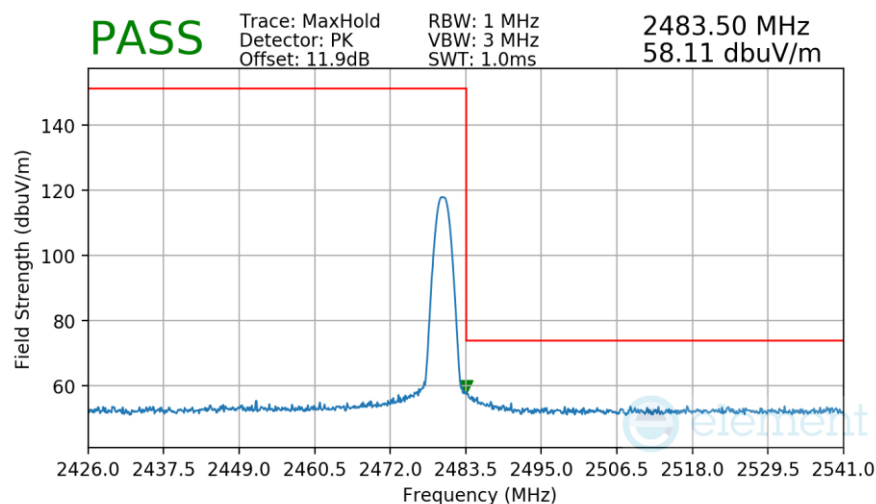


Plot 7-70. Radiated Restricted Lower Band Edge Measurement Antenna 1a

FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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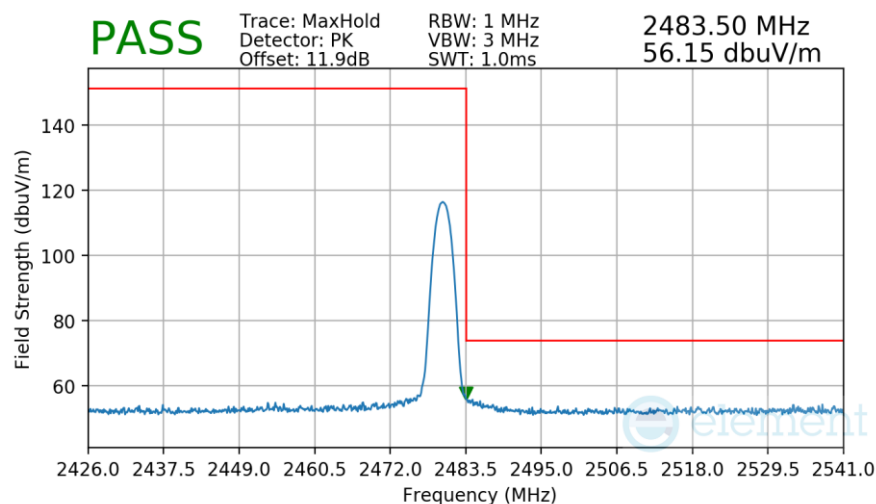
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Bluetooth Mode:	GFSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-71. Radiated Restricted Upper Band Edge Measurement Antenna 1a

Bluetooth Mode:	8DPSK
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 7-72. Radiated Restricted Upper Band Edge Measurement Antenna 1a

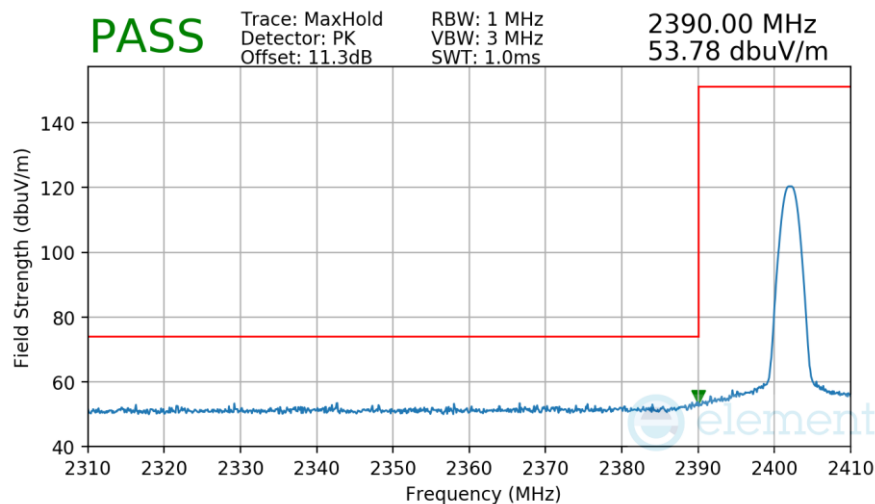
FCC ID: BCGA3460 IC: 579C-A3460		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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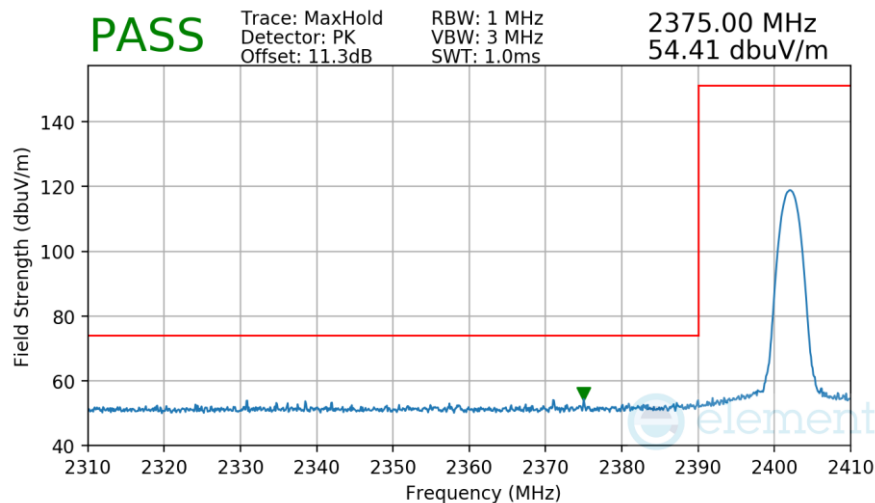
7.9.5 TxBF Radiated Restricted Band Edge Measurements

Bluetooth Mode: GFSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0



Plot 7-73. Radiated Restricted Lower Band Edge Measurement TxBF

Bluetooth Mode: 8DPSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 0

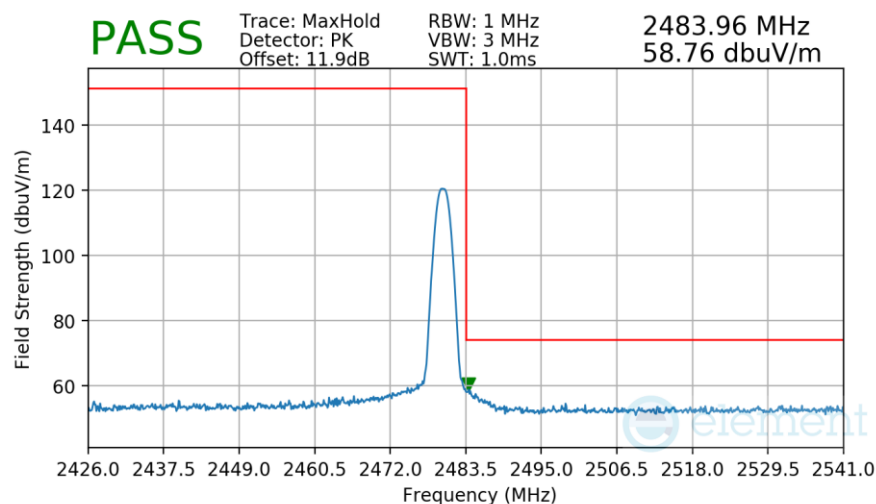


Plot 7-74. Radiated Restricted Lower Band Edge Measurement TxBF

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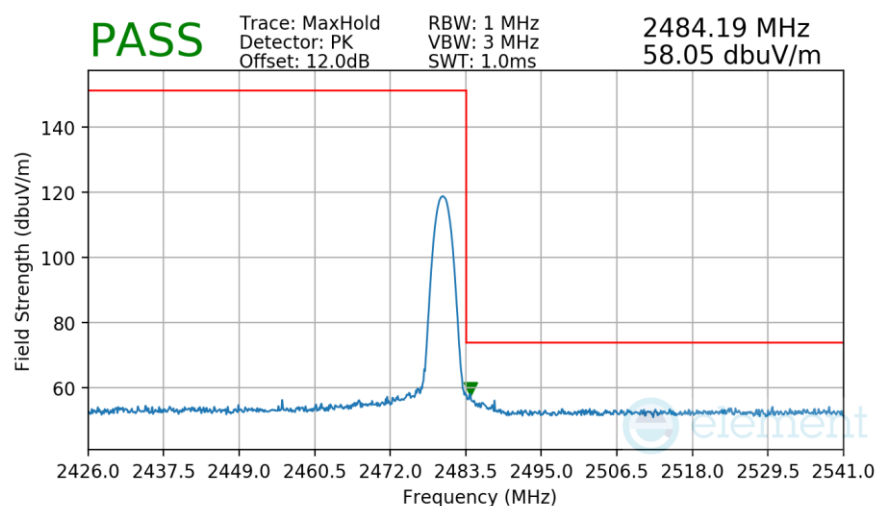
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Bluetooth Mode: GFSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78



Plot 7-75. Radiated Restricted Upper Band Edge Measurement TxBF

Bluetooth Mode: 8DPSK
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78



Plot 7-76. Radiated Restricted Upper Band Edge Measurement TxBF

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7.10 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-21. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.

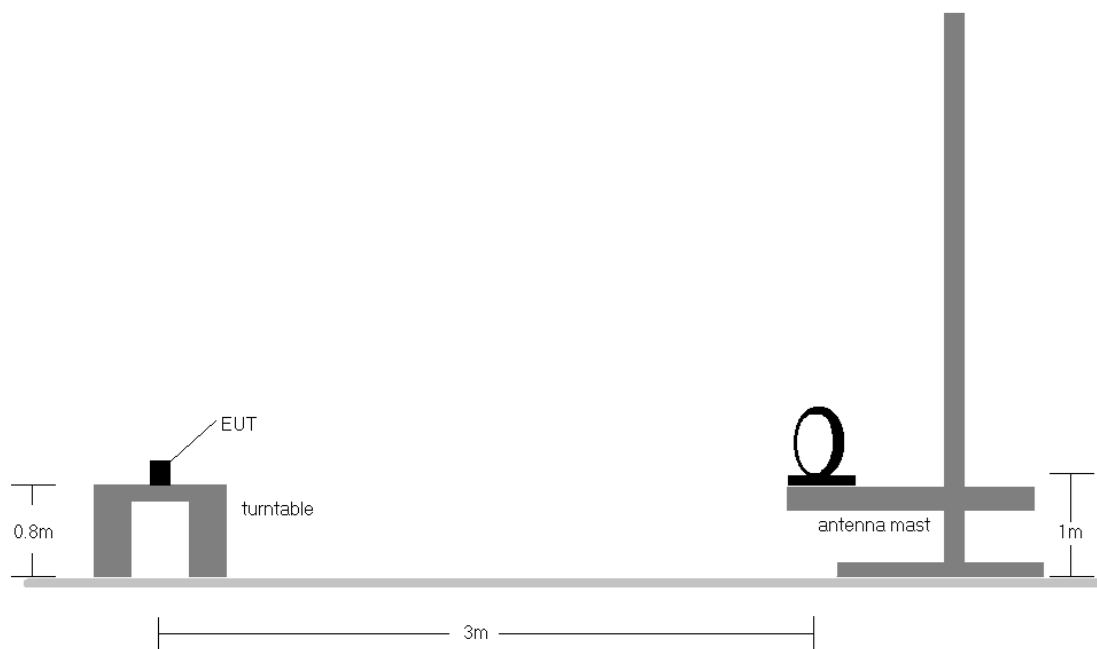


Figure 7-9. Radiated Test Setup < 30MHz

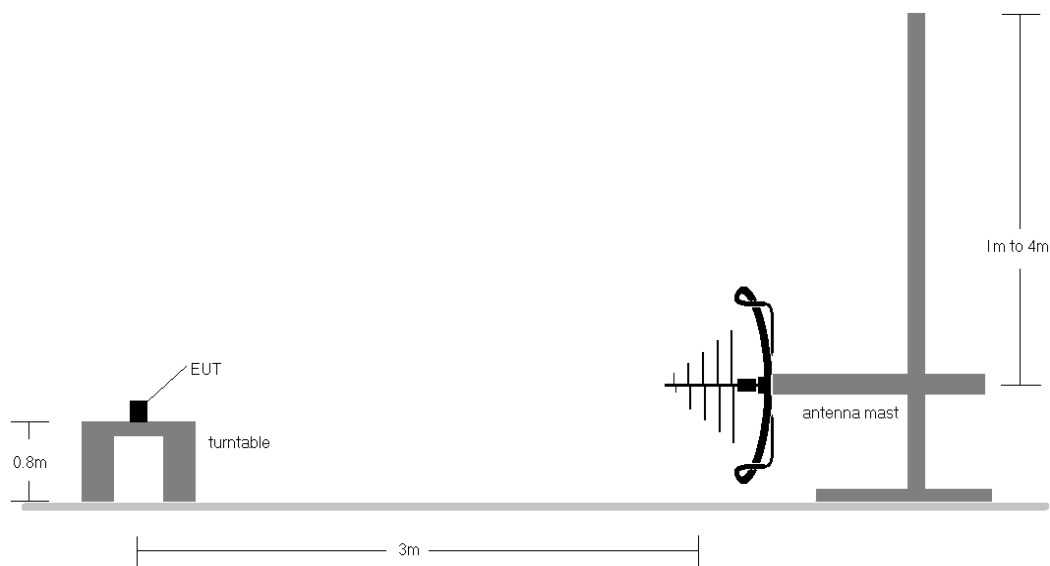


Figure 7-10. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-21.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

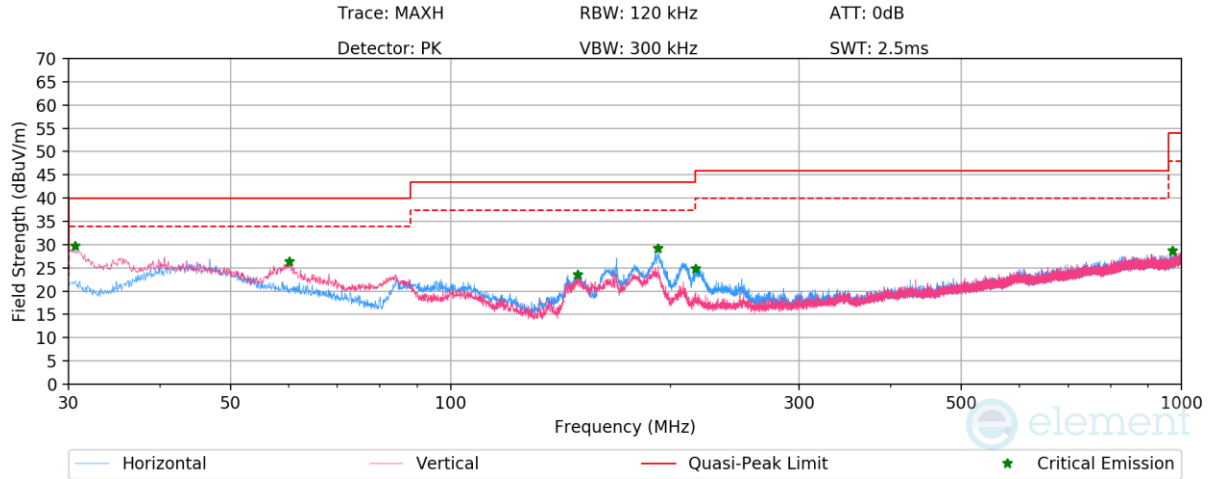
Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

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7.10.1 TxBF Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-77. Radiated Spurious Emissions Below 1GHz TxBF (GFSK ePA – Ch.39, with AC/DC Adapter)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
30.60	Max-Peak	V	100	-	-57.96	-19.29	29.76	40.00	-10.24
60.18	Max-Peak	V	100	-	-63.59	-16.99	26.42	40.00	-13.58
149.28	Max-Peak	H	200	-	-62.25	-21.18	23.57	43.50	-19.93
192.19	Max-Peak	H	200	-	-59.64	-18.12	29.24	43.50	-14.26
216.43	Max-Peak	H	100	-	-64.39	-17.74	24.87	46.00	-21.13
972.70	Max-Peak	H	100	-	-74.45	-3.85	28.70	54.00	-25.30

Table 7-22. Radiated Measurements Below 1GHz TxBF (GFSK ePA – Ch.39, with AC/DC Adapter)

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7.11 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

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

Table 7-23. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

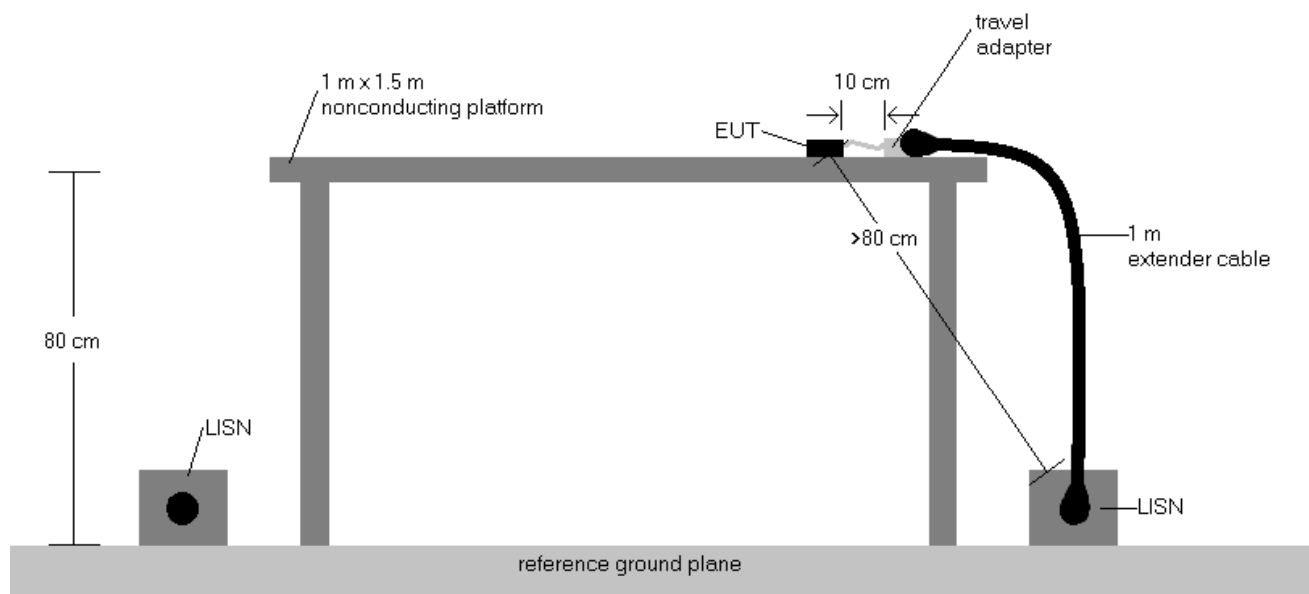


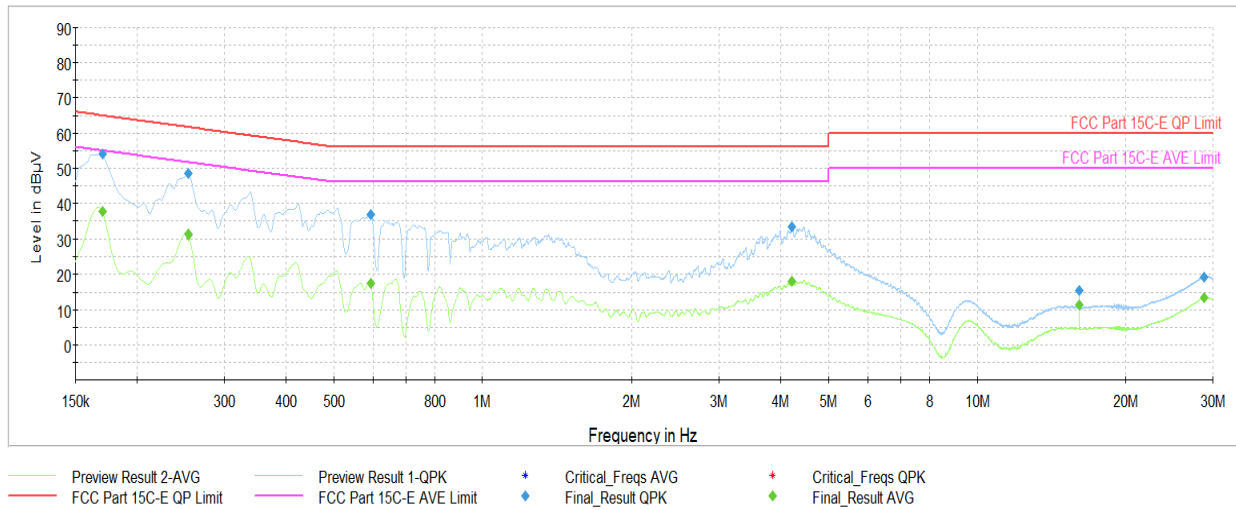
Figure 7-11. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plot are made using a quasi peak and average detectors.
8. Deviations to the Specifications: None.

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Plot 7-78. AC Line-Conducted Test Plot TxBF (L1, GFSK ePA – Ch.39, with AC/DC Adapter)

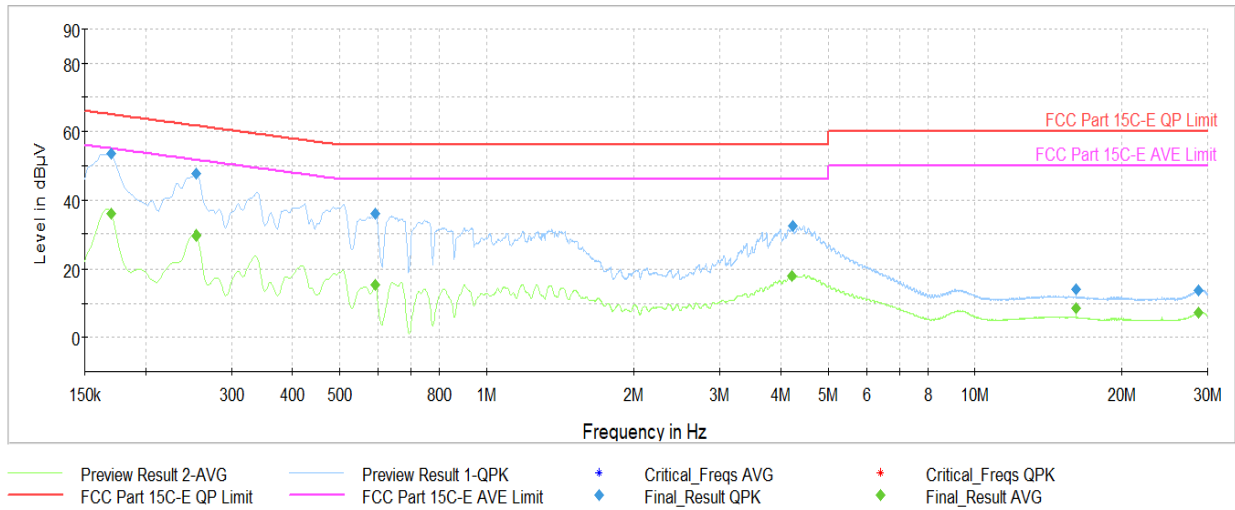
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	—	37.61	54.95	-17.34	L1	GND
0.170	FINAL	54.0	—	64.95	-10.94	L1	GND
0.254	FINAL	—	31.26	51.64	-20.38	L1	GND
0.254	FINAL	48.4	—	61.64	-13.25	L1	GND
0.593	FINAL	—	17.36	46.00	-28.64	L1	GND
0.593	FINAL	36.8	—	56.00	-19.18	L1	GND
4.218	FINAL	33.2	—	56.00	-22.78	L1	GND
4.218	FINAL	—	18.14	46.00	-27.86	L1	GND
16.100	FINAL	15.5	—	60.00	-44.54	L1	GND
16.100	FINAL	—	11.47	50.00	-38.53	L1	GND
28.842	FINAL	—	13.33	50.00	-36.67	L1	GND
28.842	FINAL	19.4	—	60.00	-40.62	L1	GND

Table 7-24. AC Line-Conducted Test Data TxBF (L1, GFSK ePA – Ch.39, with AC/DC Adapter)

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Plot 7-79. AC Line-Conducted Test Plot TxBF (N, GFSK ePA – Ch.39, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.170	FINAL	—	36.00	54.95	-18.95	N	GND
0.170	FINAL	53.4	—	64.95	-11.52	N	GND
0.254	FINAL	—	29.75	51.64	-21.89	N	GND
0.254	FINAL	47.6	—	61.64	-14.04	N	GND
0.591	FINAL	—	15.31	46.00	-30.69	N	GND
0.591	FINAL	35.9	—	56.00	-20.13	N	GND
4.220	FINAL	—	18.11	46.00	-27.89	N	GND
4.225	FINAL	32.5	—	56.00	-23.53	N	GND
16.121	FINAL	14.2	—	60.00	-45.85	N	GND
16.123	FINAL	—	8.73	50.00	-41.27	N	GND
28.678	FINAL	13.9	—	60.00	-46.08	N	GND
28.682	FINAL	—	7.20	50.00	-42.80	N	GND

Table 7-25. AC Line-Conducted Test Data TxBF (N, GFSK ePA – Ch.39, with AC/DC Adapter)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA3460 and IC: 579C-A3460** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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