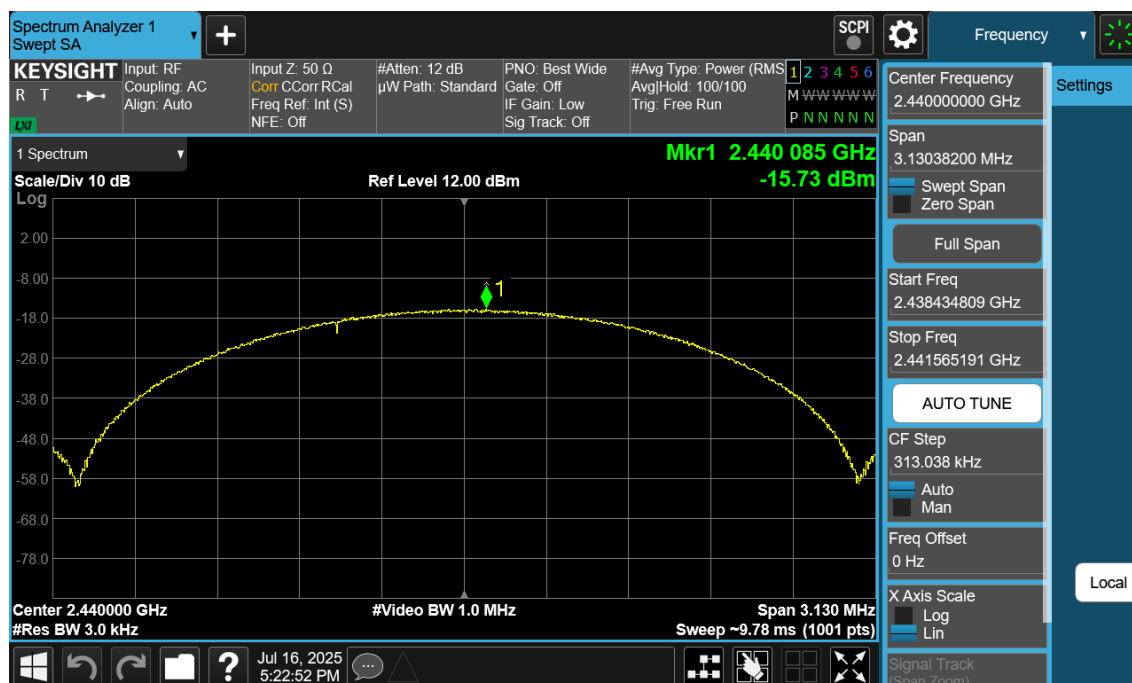




Plot 7-41. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, iPA – Ch. 19)



Plot 7-42. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, iPA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 45 of 108

V 10.6 10/27/2023

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7.4.3 NB UNII_L

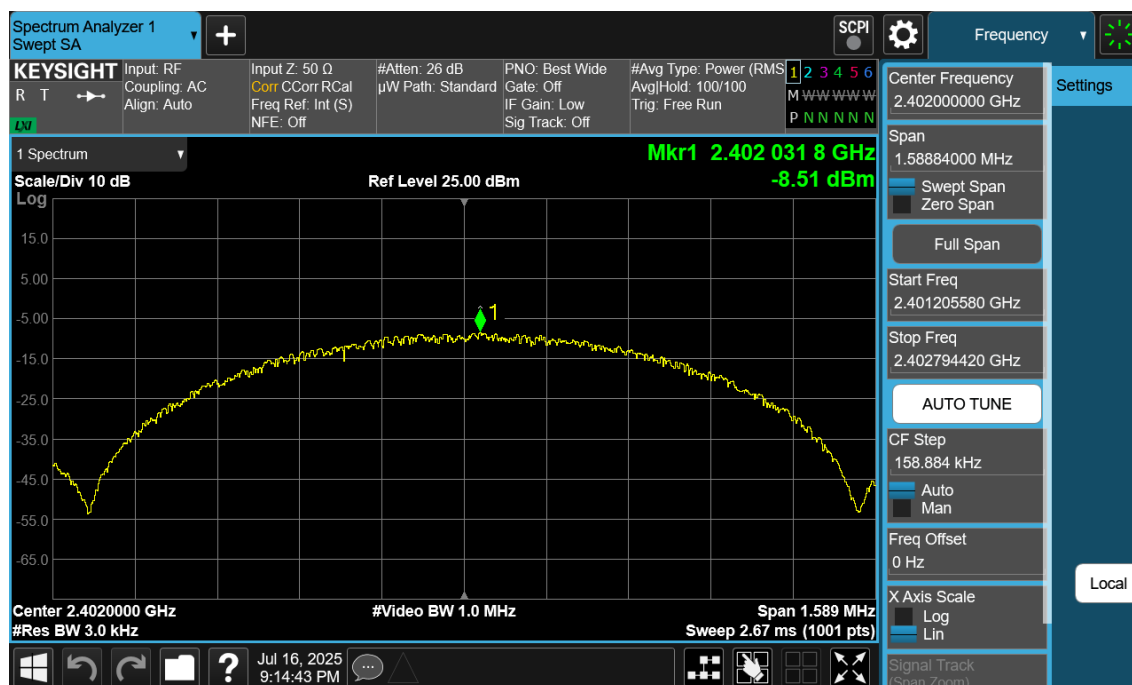
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	1.0	iPA	0	-8.51	8.0	-16.51
2440	1.0	iPA	19	-8.49	8.0	-16.49
2480	1.0	iPA	39	-8.45	8.0	-16.45
2404	2.0	iPA	1	-13.83	8.0	-21.83
2440	2.0	iPA	19	-13.77	8.0	-21.77
2478	2.0	iPA	38	-13.81	8.0	-21.81

Table 7-15. Conducted Power Density Measurements NB UNII_L

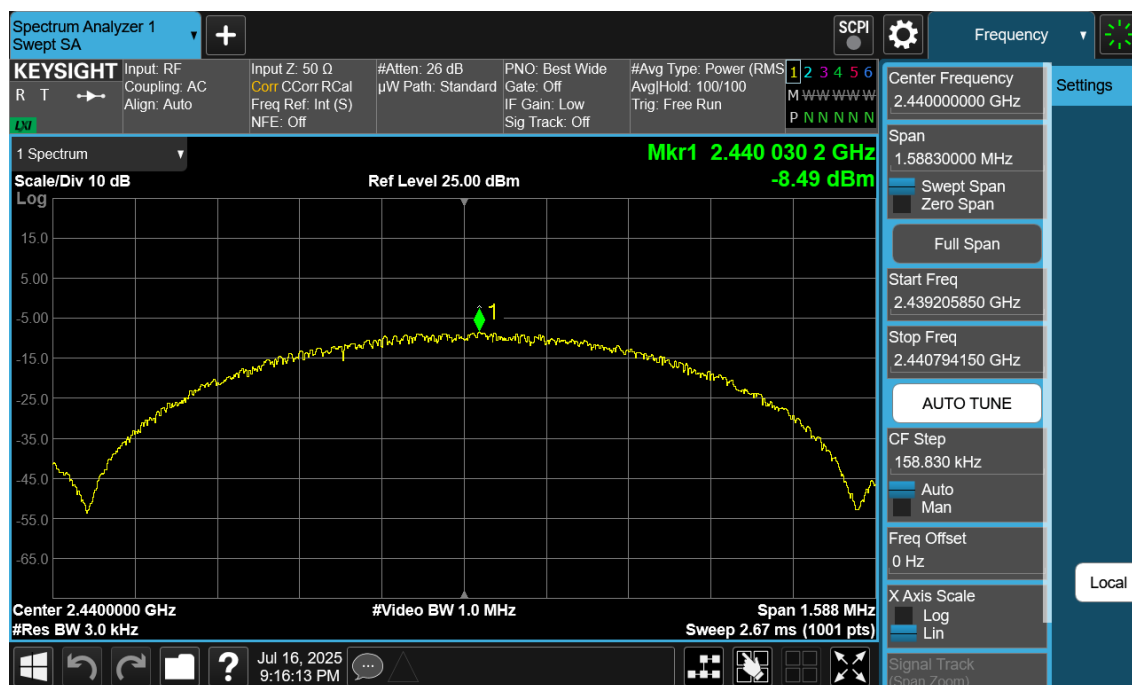
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 46 of 108

V 10.6 10/27/2023

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Plot 7-43. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

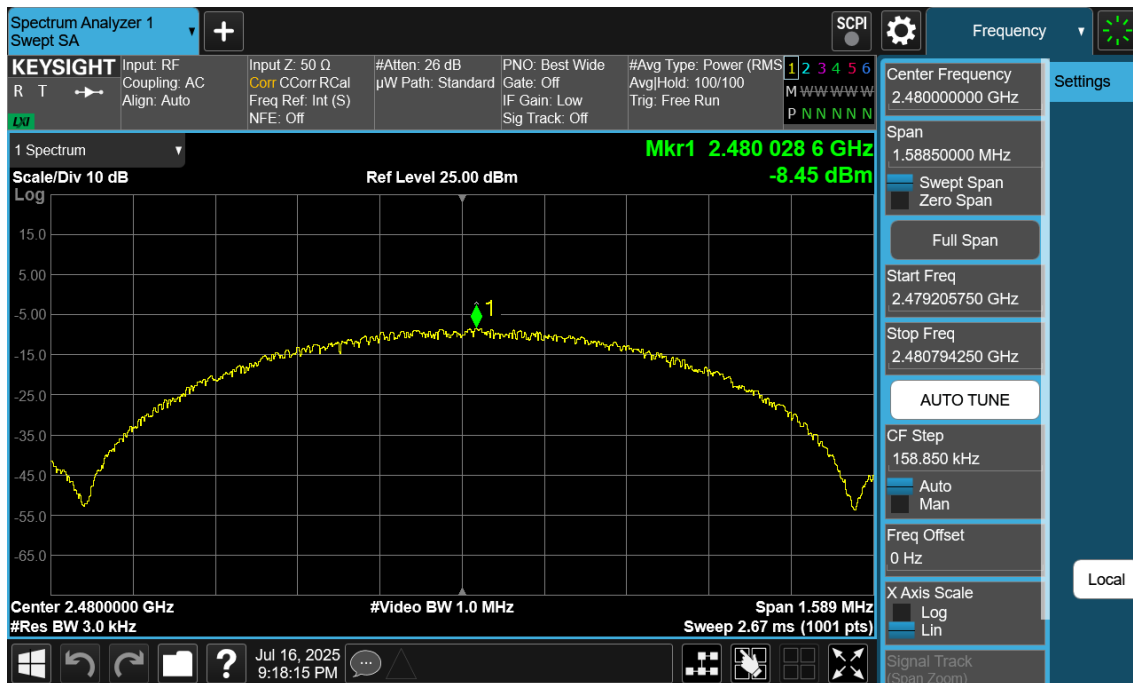


Plot 7-44. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 1Mbps, iPA – Ch. 19)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 47 of 108

V 10.6 10/27/2023

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Plot 7-45. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 1Mbps, iPA – Ch. 39)

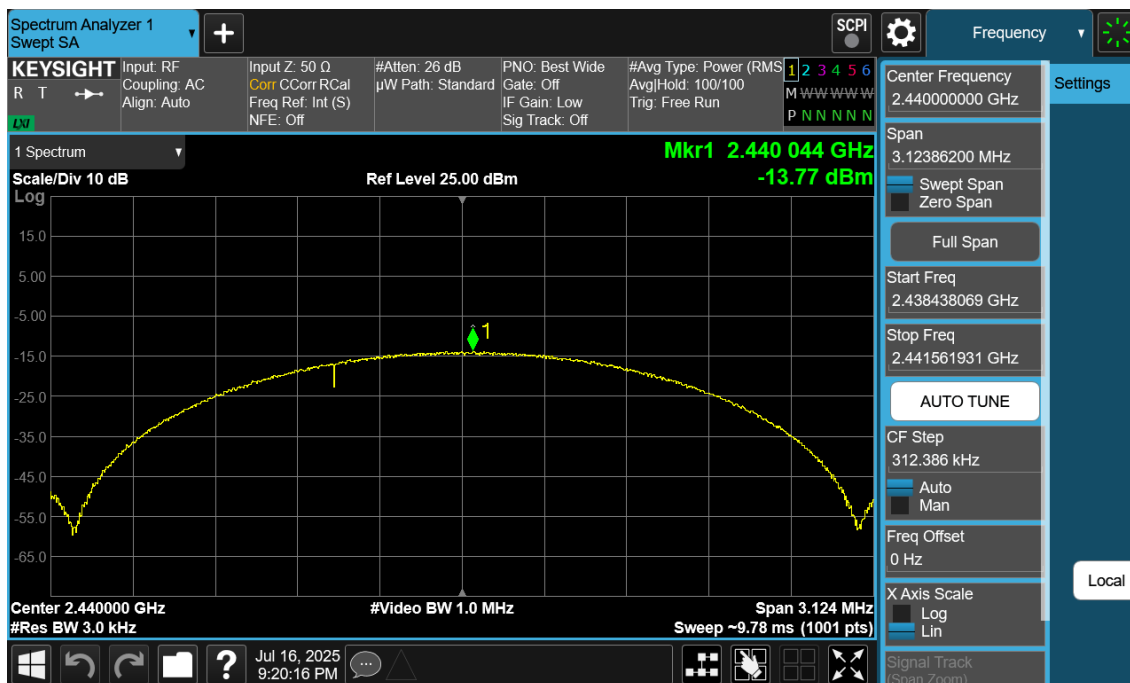


Plot 7-46. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 2Mbps, iPA – Ch. 1)

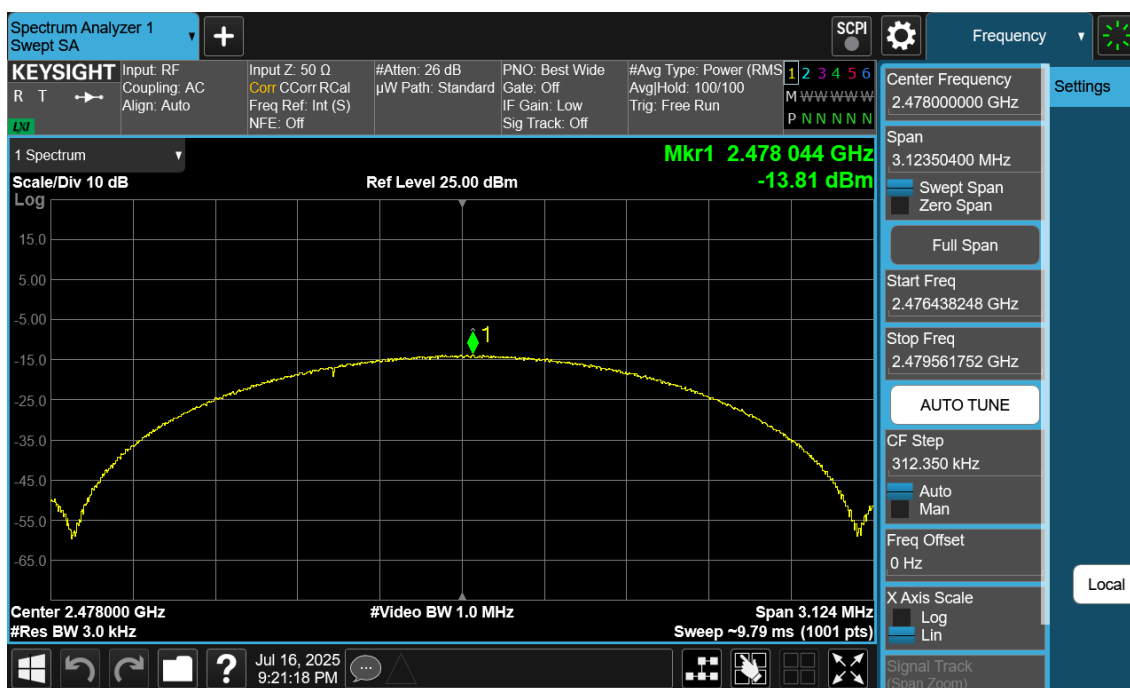
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 48 of 108

V 10.6 10/27/2023

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Plot 7-47. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 2Mbps, iPA – Ch. 19)



Plot 7-48. Power Spectral Density Plot NB UNII_L (Bluetooth (LE), 2Mbps, iPA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 49 of 108

V 10.6 10/27/2023

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7.4.4 TxBF

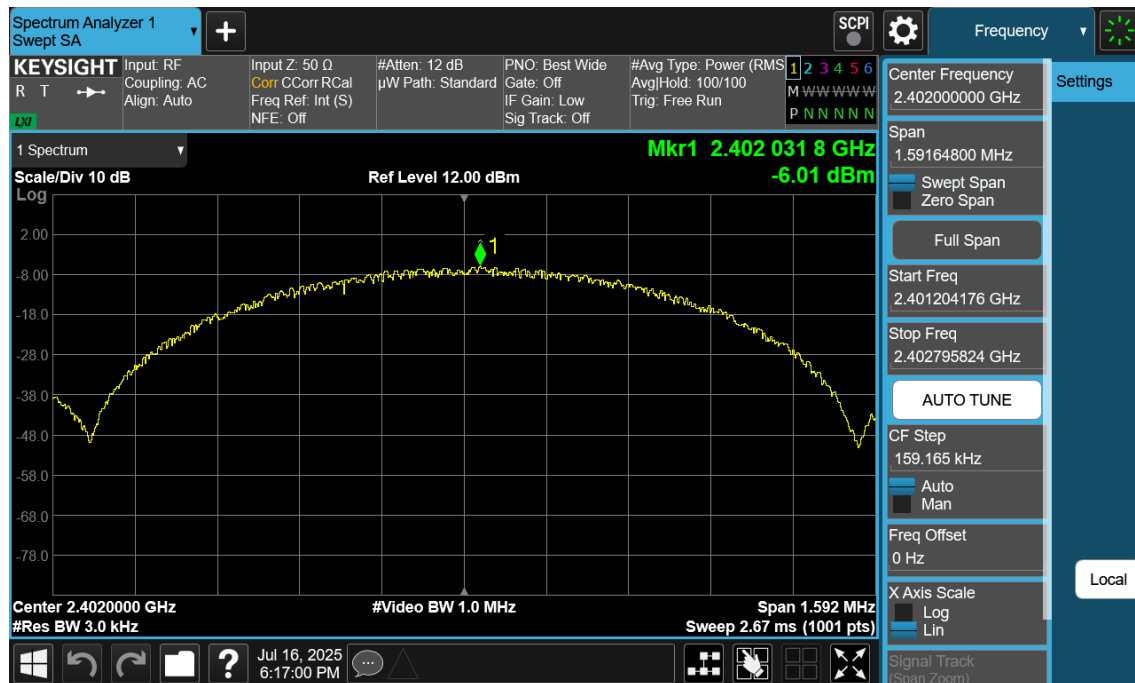
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Ant1 Power Density [dBm/3kHz]	Ant2 Power Density [dBm/3kHz]	Summed Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]
2402	1.0	ePA	0	-6.01	-5.96	-2.97	8.0	-13.96
2440	1.0	ePA	19	-5.94	-6.06	-2.99	8.0	-14.06
2480	1.0	ePA	39	-5.89	-6.02	-2.95	8.0	-14.02
2402	1.0	iPA	0	-10.63	-10.42	-7.52	8.0	-18.42
2440	1.0	iPA	19	-10.48	-10.63	-7.55	8.0	-18.63
2480	1.0	iPA	39	-10.41	-10.59	-7.49	8.0	-18.59
2404	2.0	ePA	1	-11.42	-11.58	-8.49	8.0	-19.58
2440	2.0	ePA	19	-11.32	-11.58	-8.44	8.0	-19.58
2478	2.0	ePA	38	-11.22	-11.34	-8.27	8.0	-19.34
2404	2.0	iPA	1	-15.92	-16.08	-12.99	8.0	-24.08
2440	2.0	iPA	19	-15.80	-15.84	-12.81	8.0	-23.84
2478	2.0	iPA	38	-15.69	-16.15	-12.90	8.0	-24.15

Table 7-16. Conducted Power Density Measurements TxBF

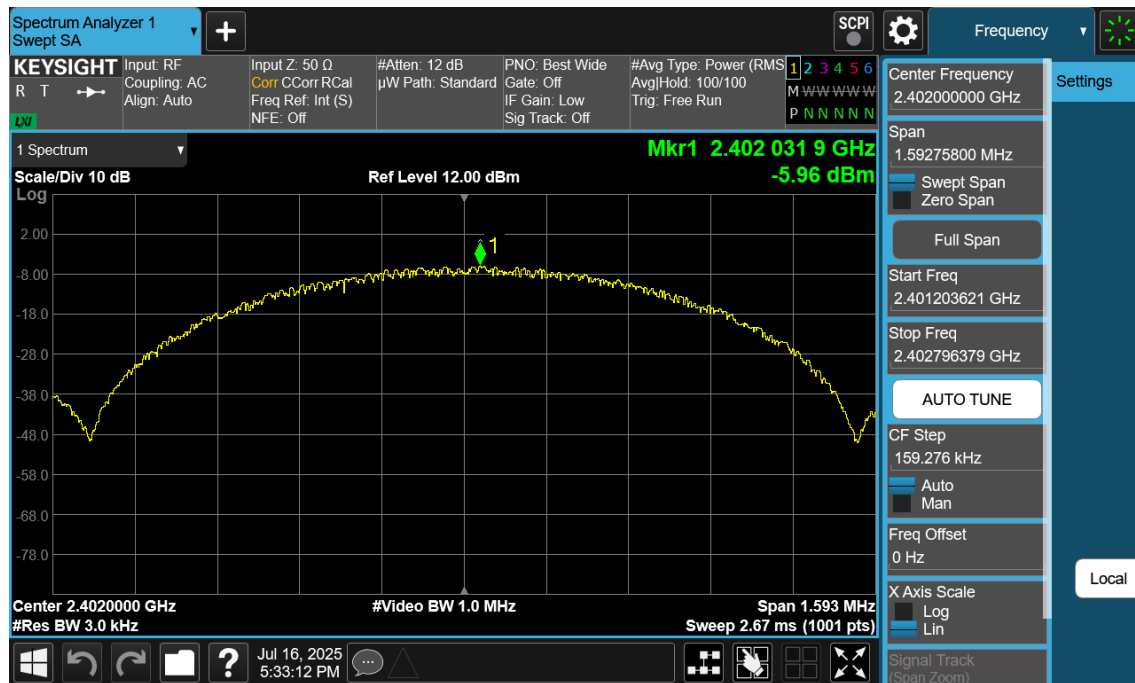
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 50 of 108

V 10.6 10/27/2023

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Plot 7-49. Power Spectral Density Plot Ant1 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

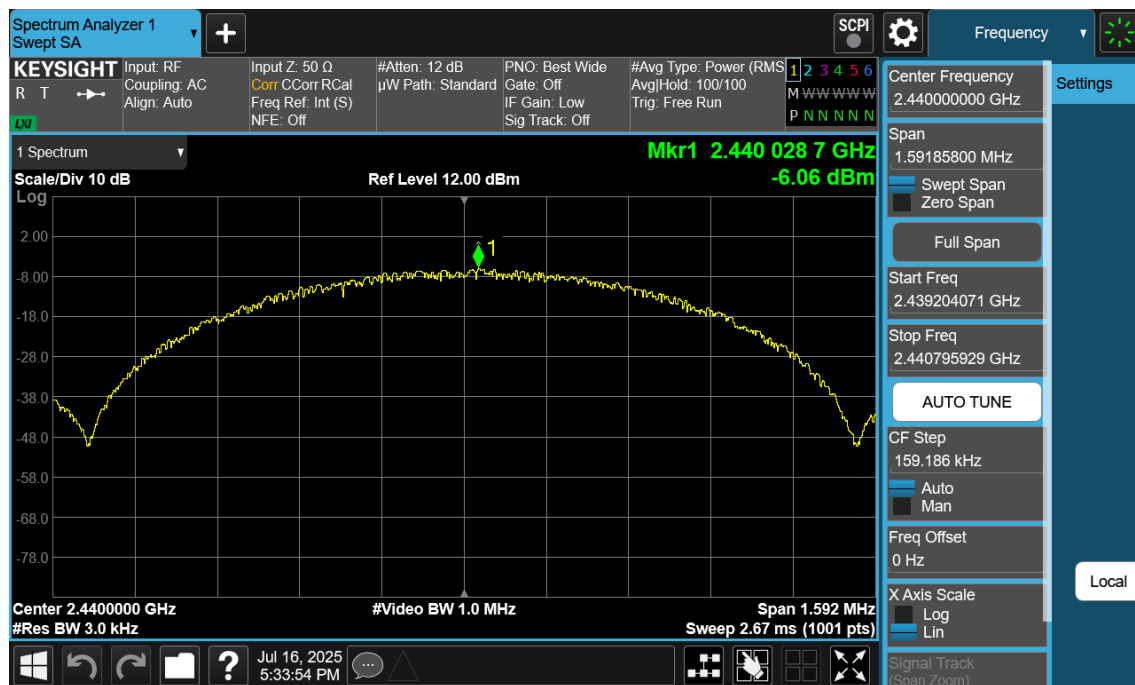
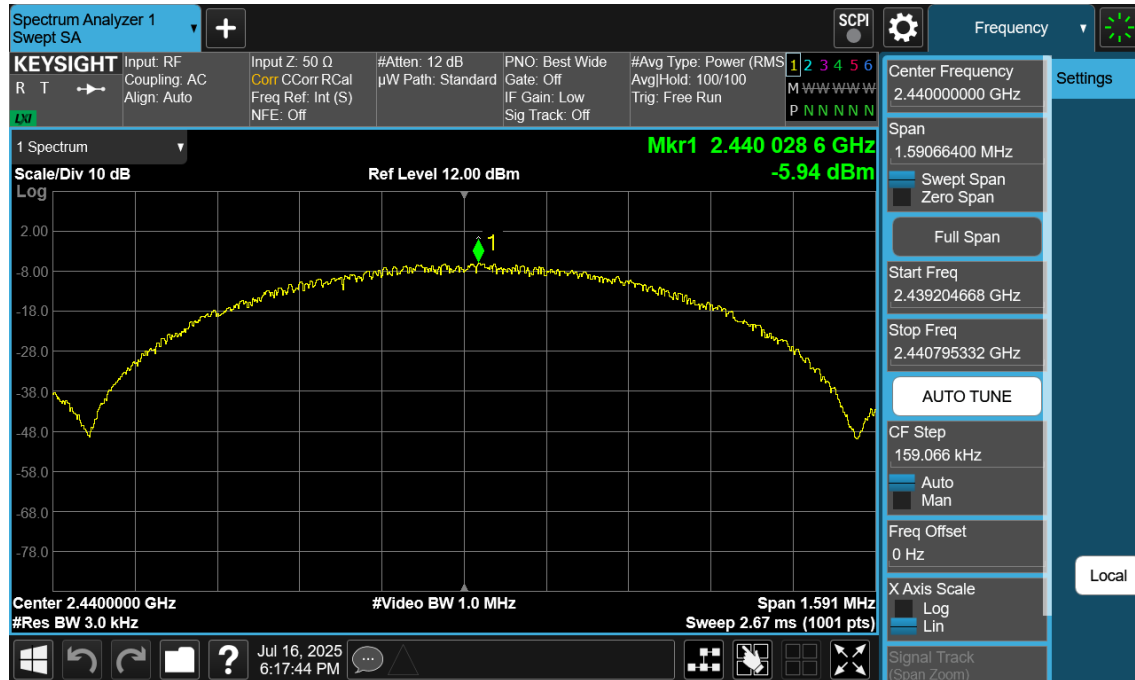


Plot 7-50. Power Spectral Density Plot Ant2 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 51 of 108

V 10.6 10/27/2023

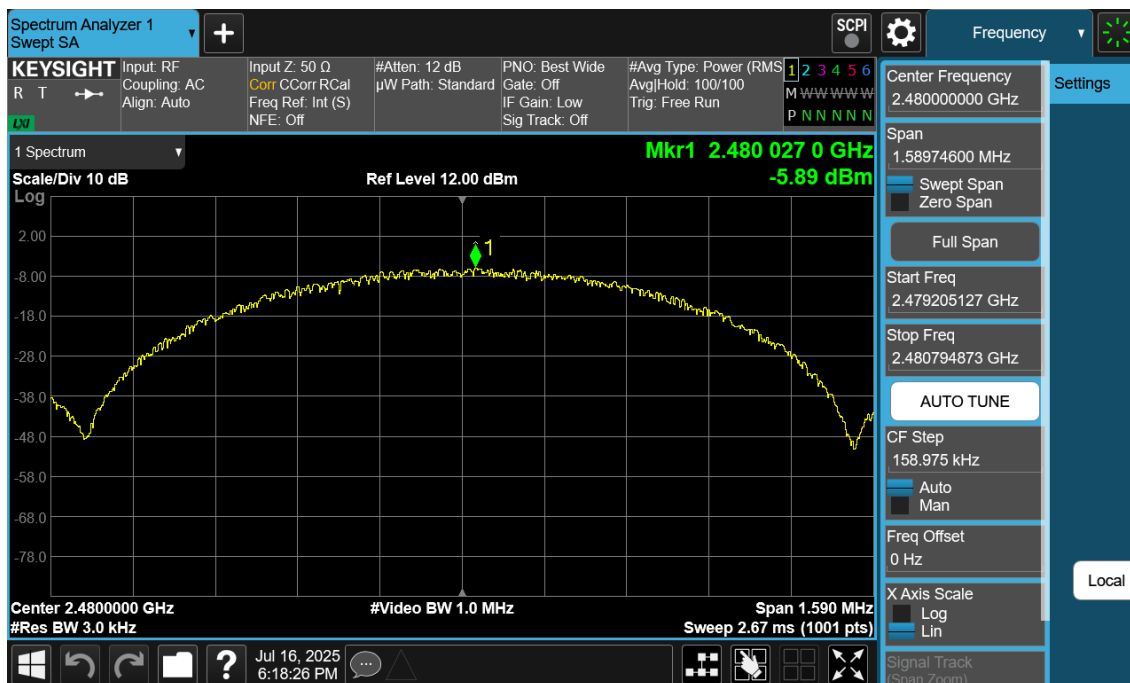
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Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 52 of 108

V 10.6 10/27/2023

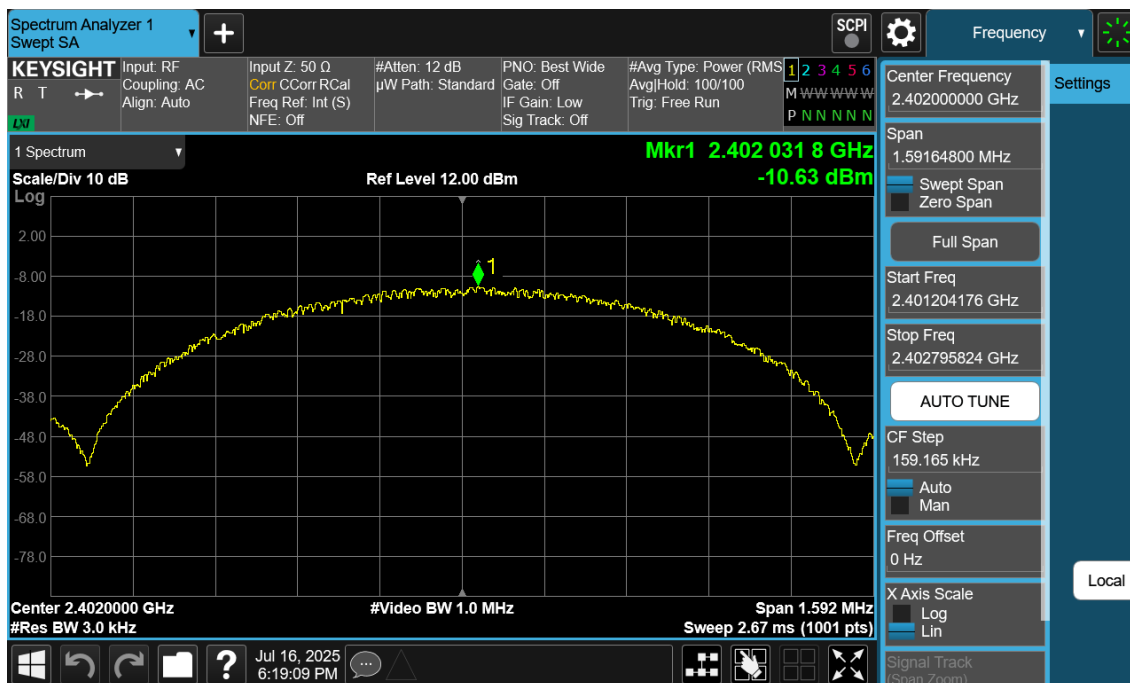
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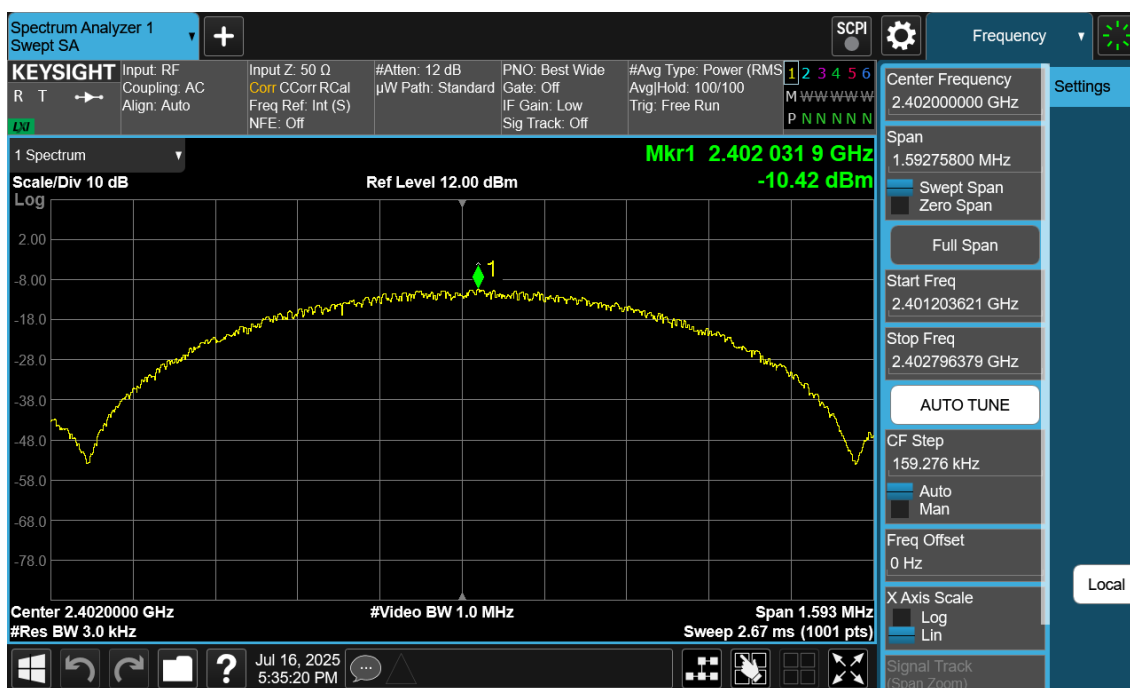
FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 53 of 108

V 10.6 10/27/2023

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Plot 7-55. Power Spectral Density Plot Ant1 (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

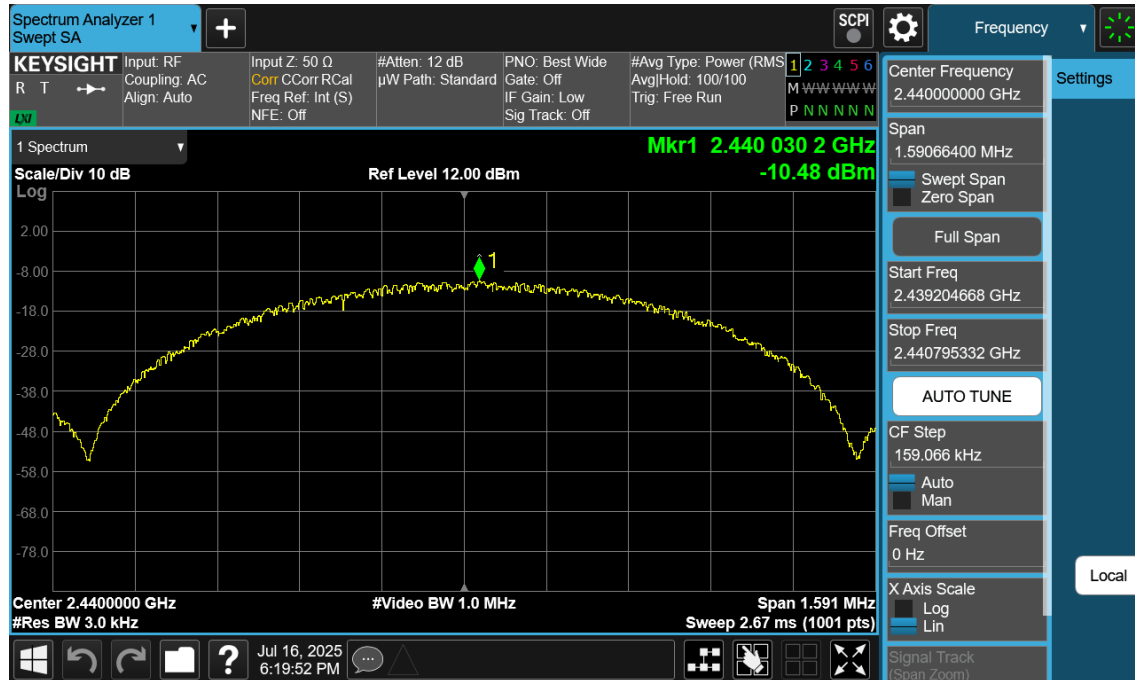


Plot 7-56. Power Spectral Density Plot Ant2 (Bluetooth (LE), 1Mbps, iPA – Ch. 0)

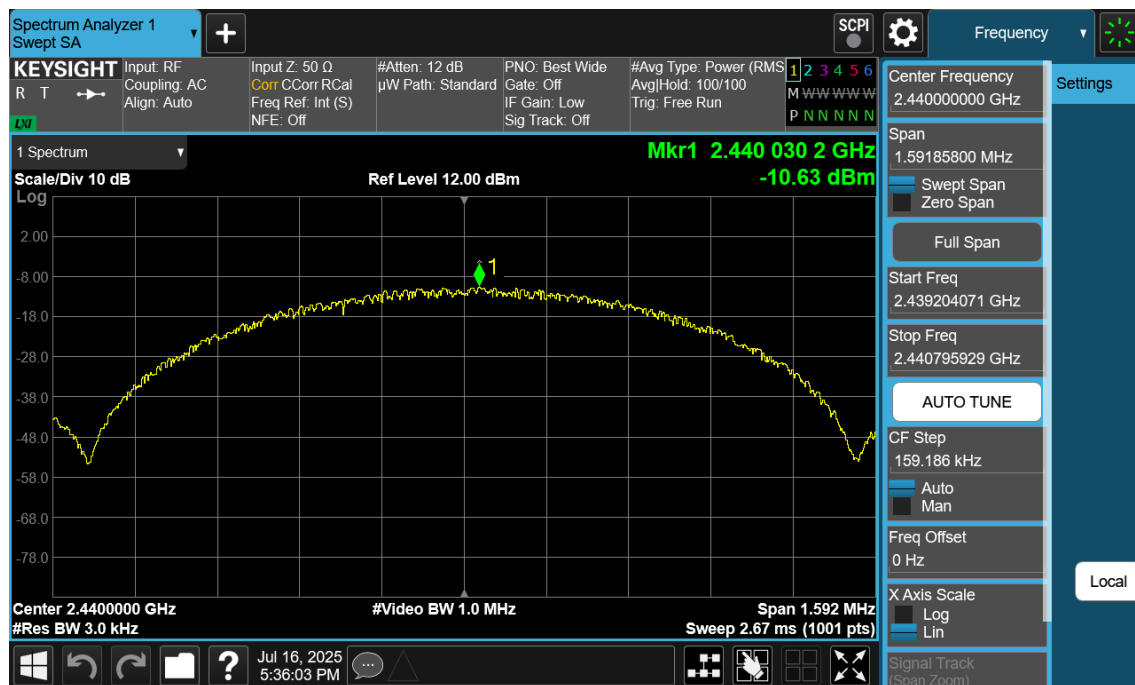
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 54 of 108

V 10.6 10/27/2023

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Plot 7-57. Power Spectral Density Plot Ant1 (Bluetooth (LE), 1Mbps, iPA – Ch. 19)

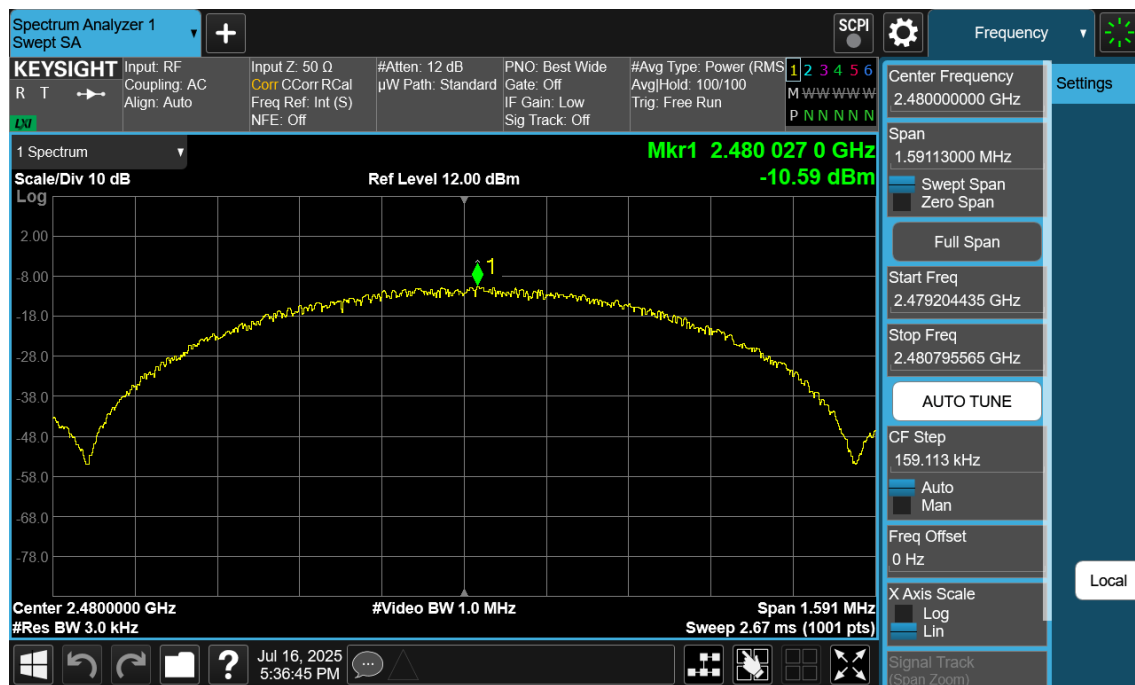
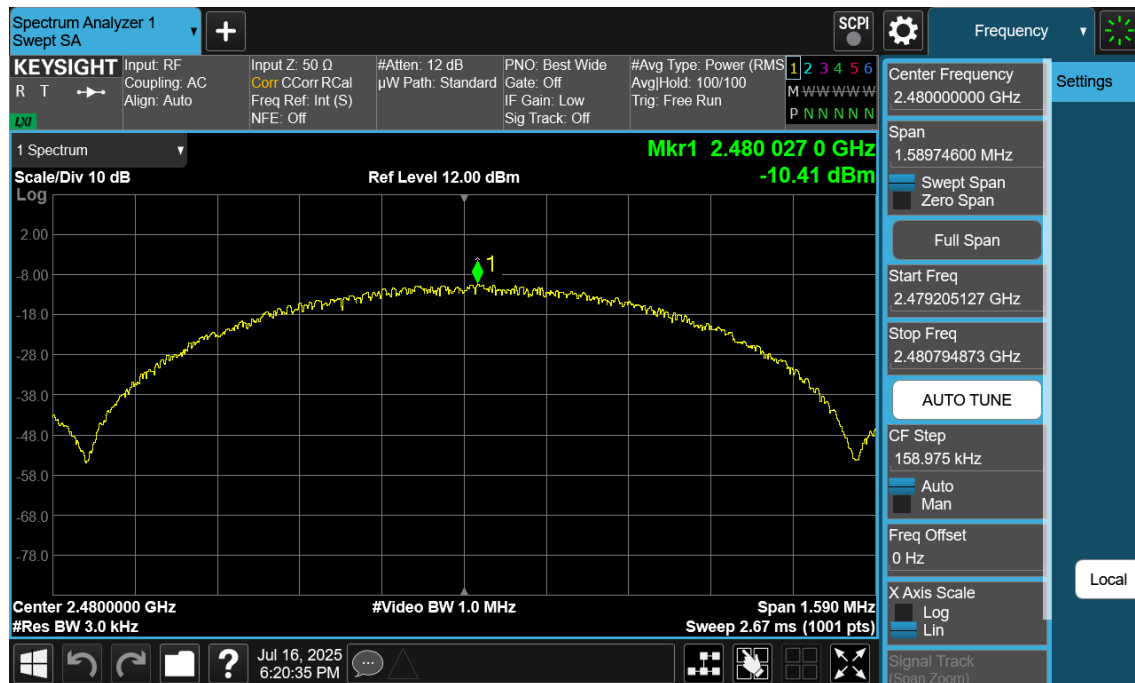


Plot 7-58. Power Spectral Density Plot Ant2 (Bluetooth (LE), 1Mbps, iPA – Ch. 19)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 55 of 108

V 10.6 10/27/2023

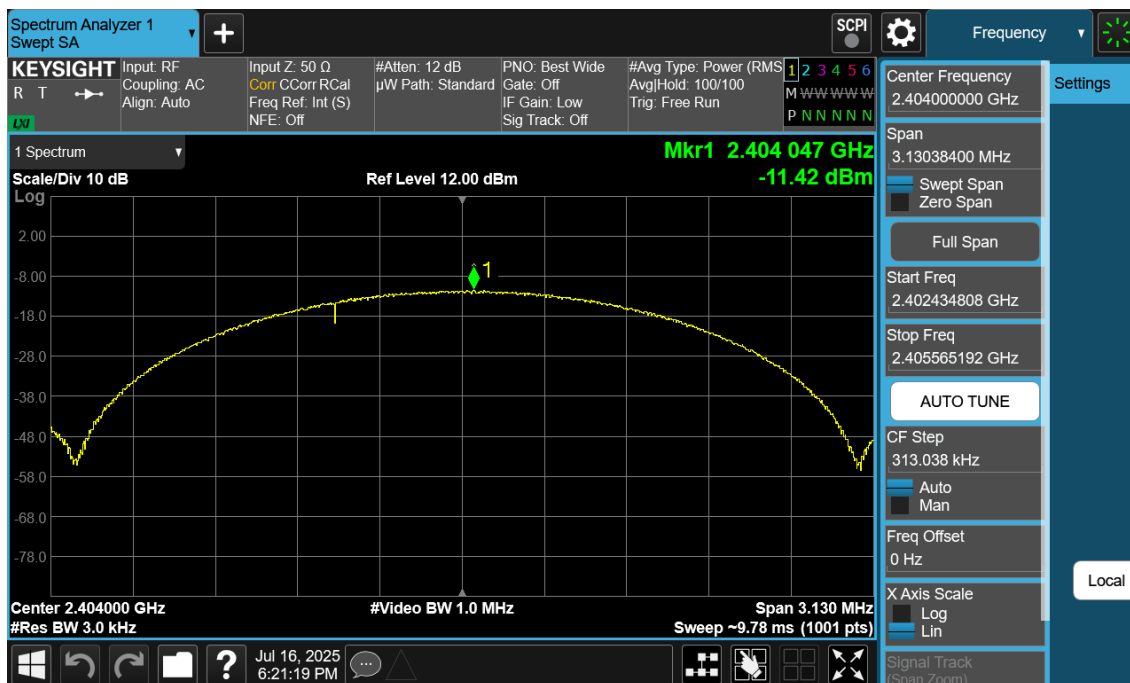
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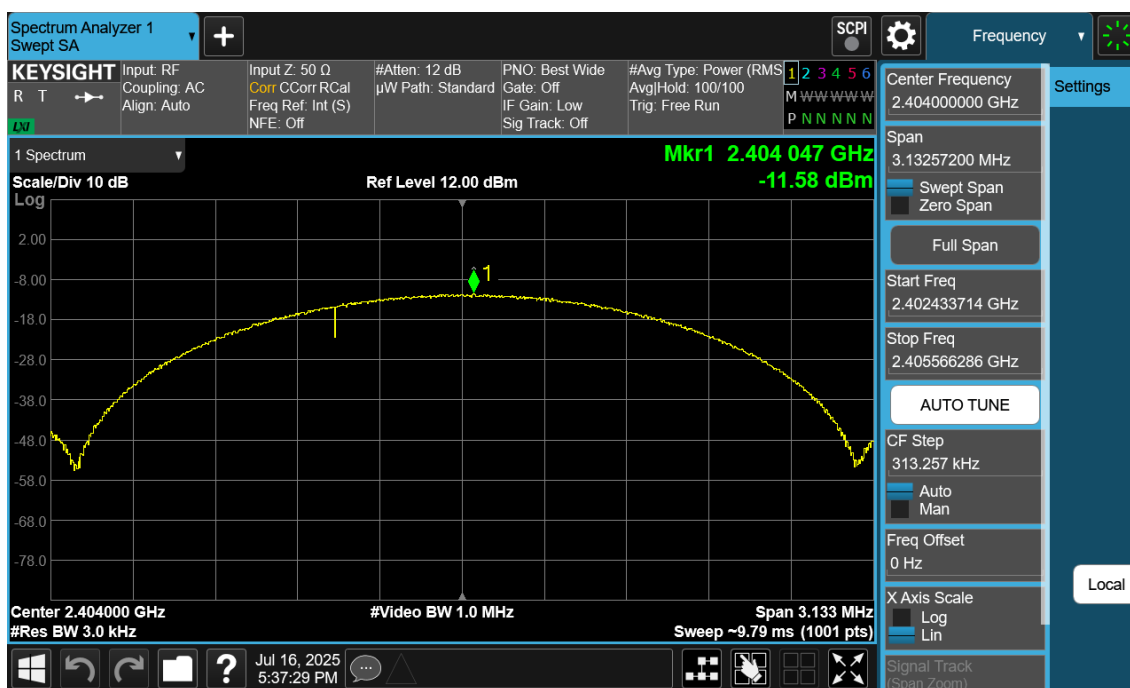
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 56 of 108

V 10.6 10/27/2023

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Plot 7-61. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

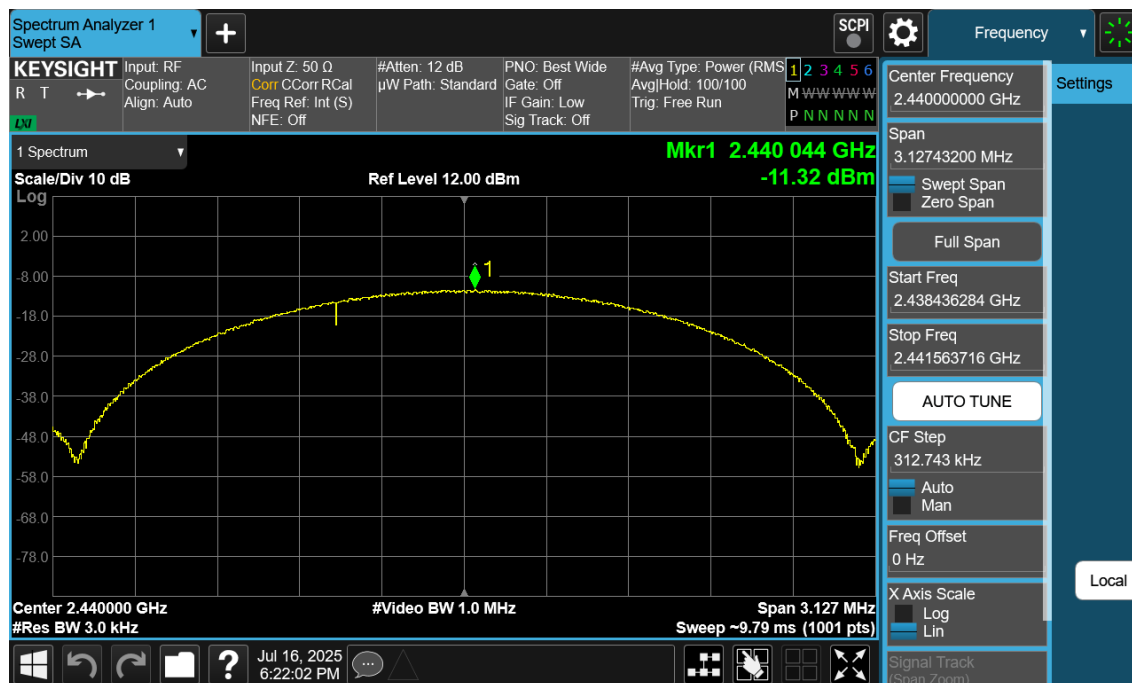


Plot 7-62. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)

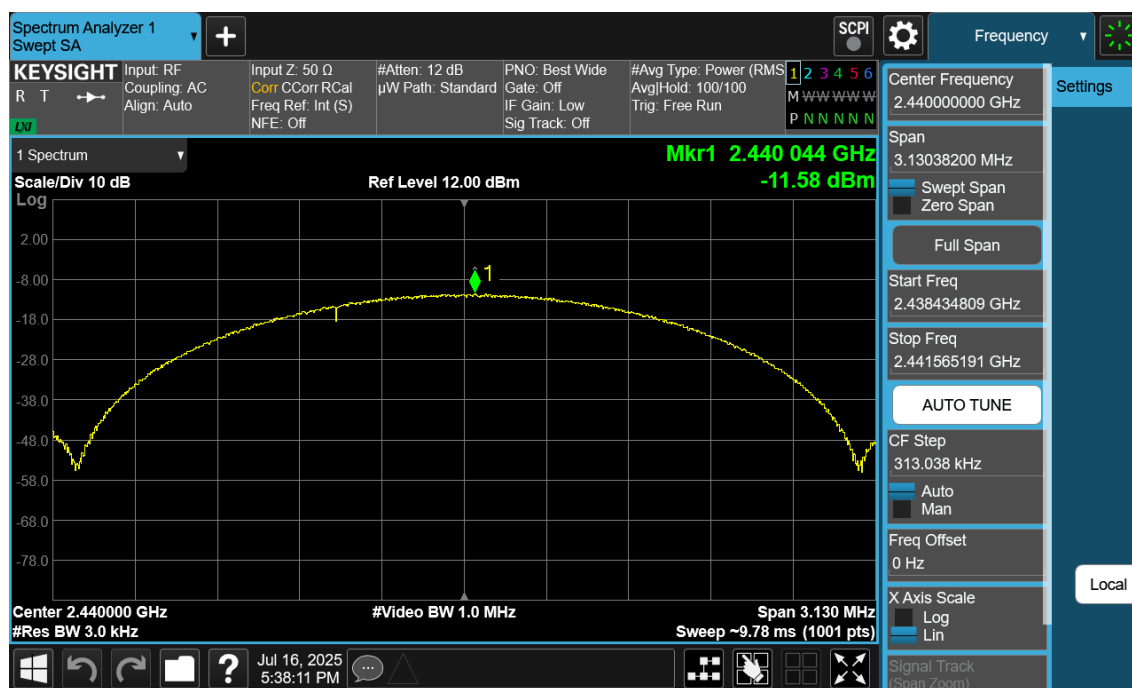
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 57 of 108

V 10.6 10/27/2023

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Plot 7-63. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

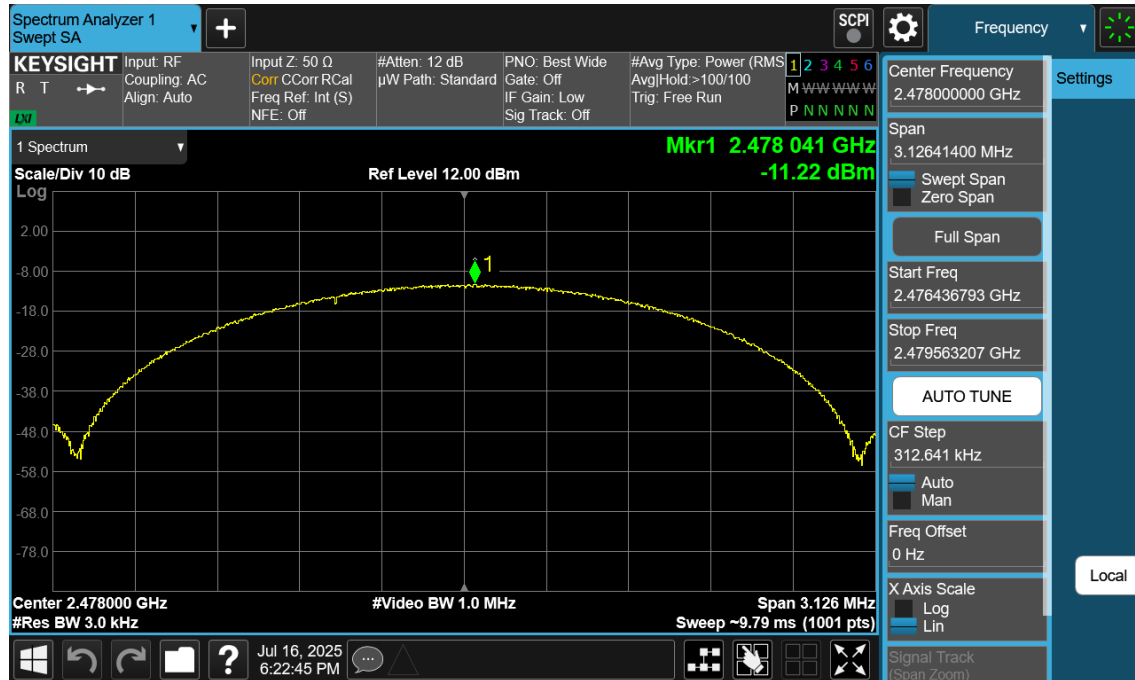


Plot 7-64. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, ePA – Ch. 19)

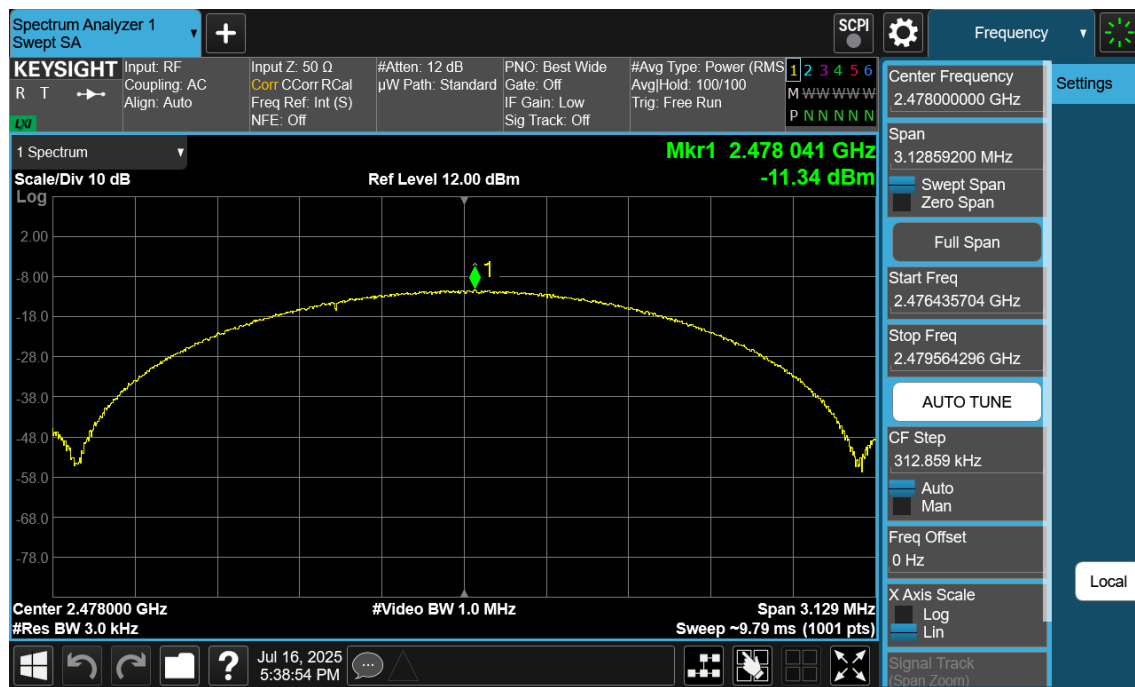
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 58 of 108

V 10.6 10/27/2023

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Plot 7-65. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

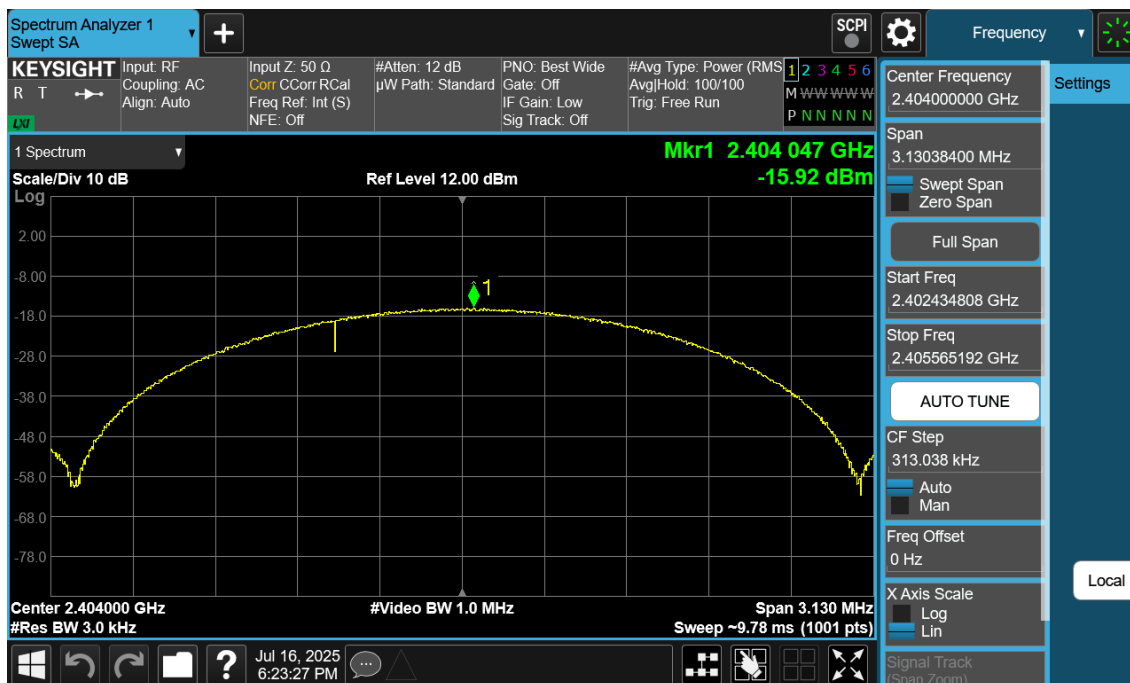


Plot 7-66. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 59 of 108

V 10.6 10/27/2023

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Plot 7-67. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, iPA – Ch. 1)

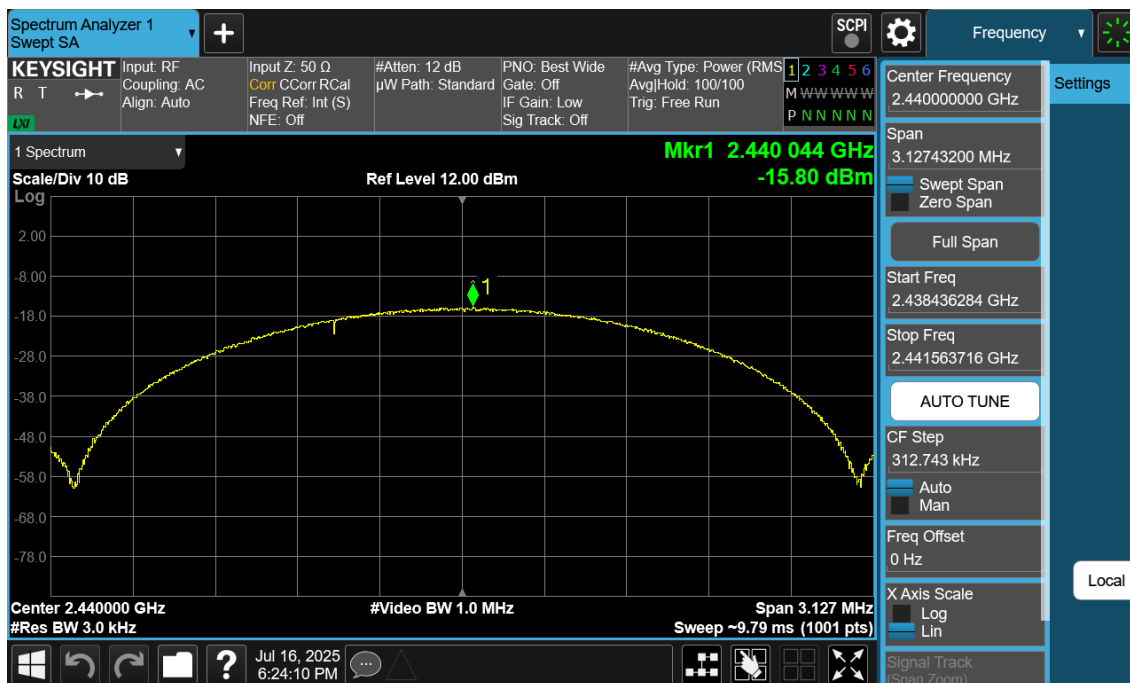


Plot 7-68. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, iPA – Ch. 1)

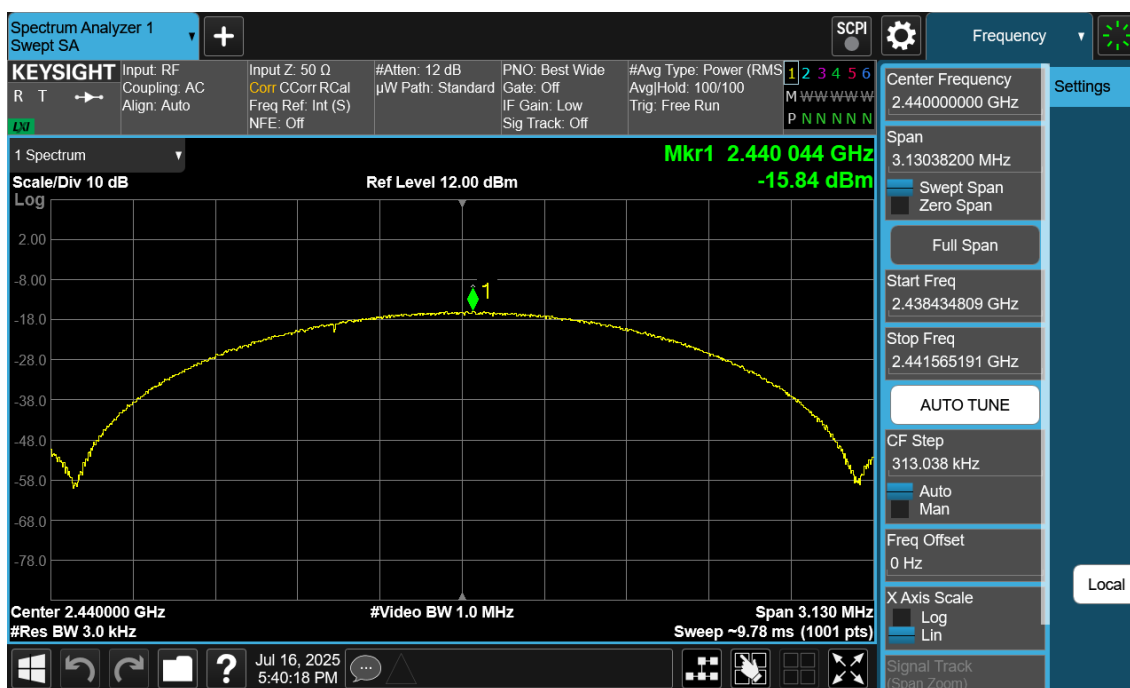
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 60 of 108

V 10.6 10/27/2023

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Plot 7-69. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, iPA – Ch. 19)

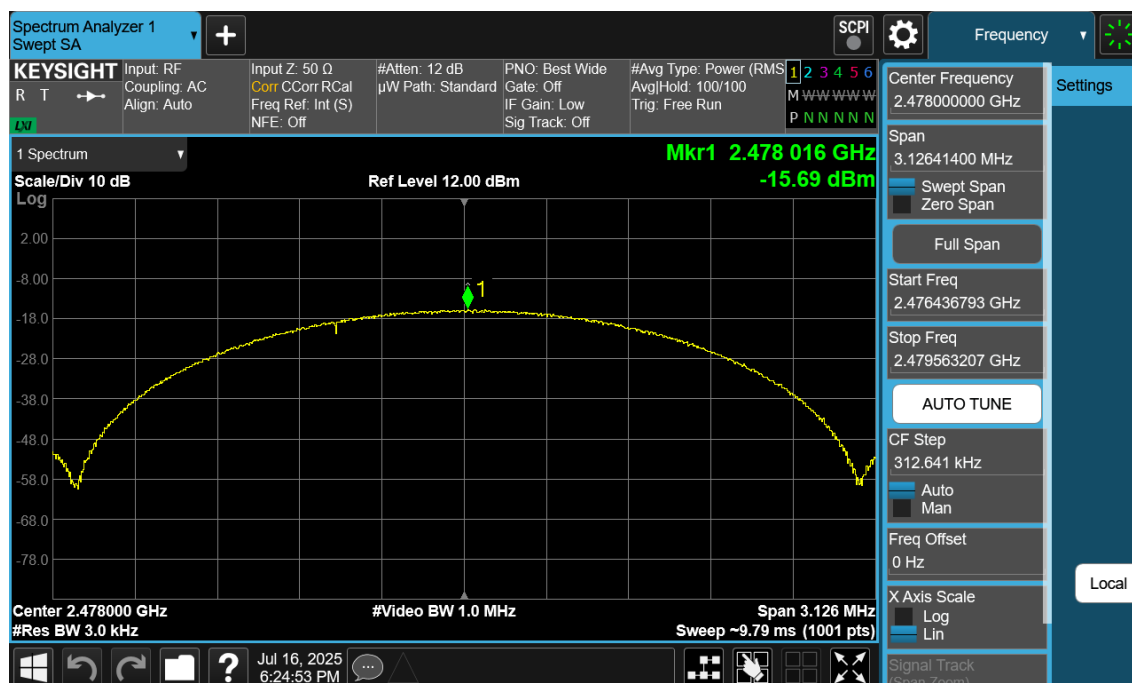


Plot 7-70. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, iPA – Ch. 19)

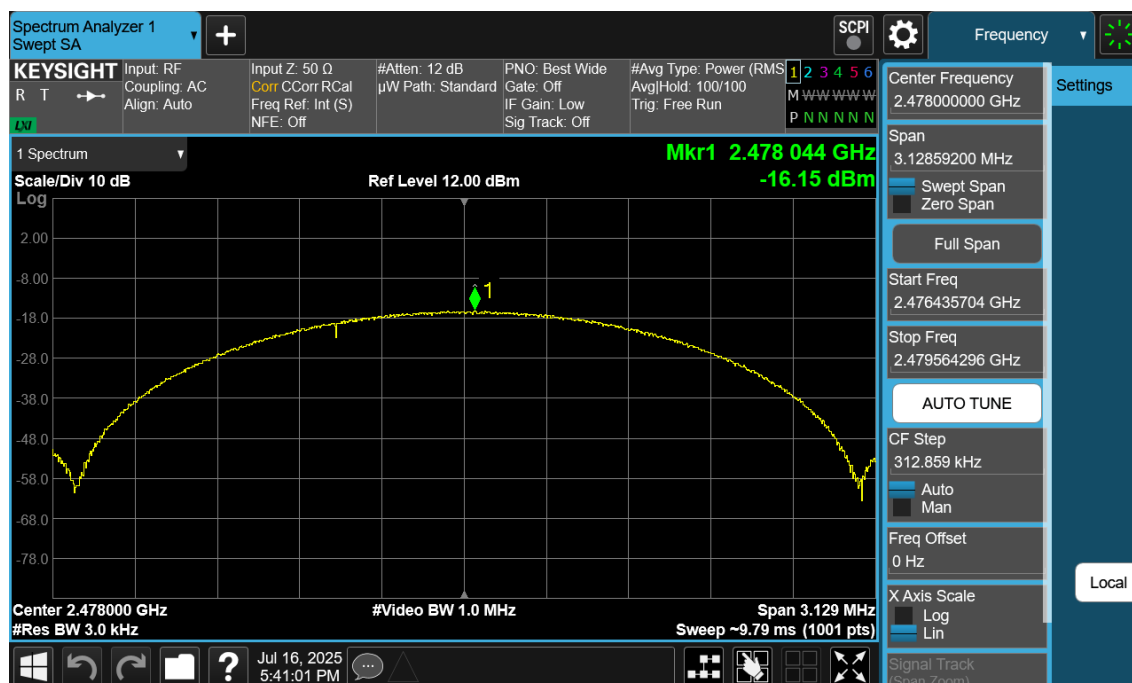
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 61 of 108

V 10.6 10/27/2023

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Plot 7-71. Power Spectral Density Plot Ant1 (Bluetooth (LE), 2Mbps, iPA – Ch. 38)



Plot 7-72. Power Spectral Density Plot Ant2 (Bluetooth (LE), 2Mbps, iPA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 62 of 108

V 10.6 10/27/2023

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Note:

Per ANSI C63.10-2020 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.

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

Per ANSI C63.10-2020 Section 14.5.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Ant1 and NB UNII_L were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample TxBF Calculation:

At 2402MHz the average conducted power spectral density was measured to be -6.01 dBm for Ant1 and -5.96 dBm for Ant2.

$$\text{Ant1} + \text{Ant2} = \text{TxBF}$$

$$(-6.01 \text{ dBm} + -5.96 \text{ dBm}) = (0.251 \text{ mW} + 0.254 \text{ mW}) = 0.504 \text{ mW} = -2.97 \text{ dBm}$$

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 63 of 108

V 10.6 10/27/2023

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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

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 $\geq 3 \times$ RBW
5. Detector = Peak
6. Number of sweep points $\geq 2 \times$ 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 7-4. Test Instrument & Measurement Setup

Test Notes

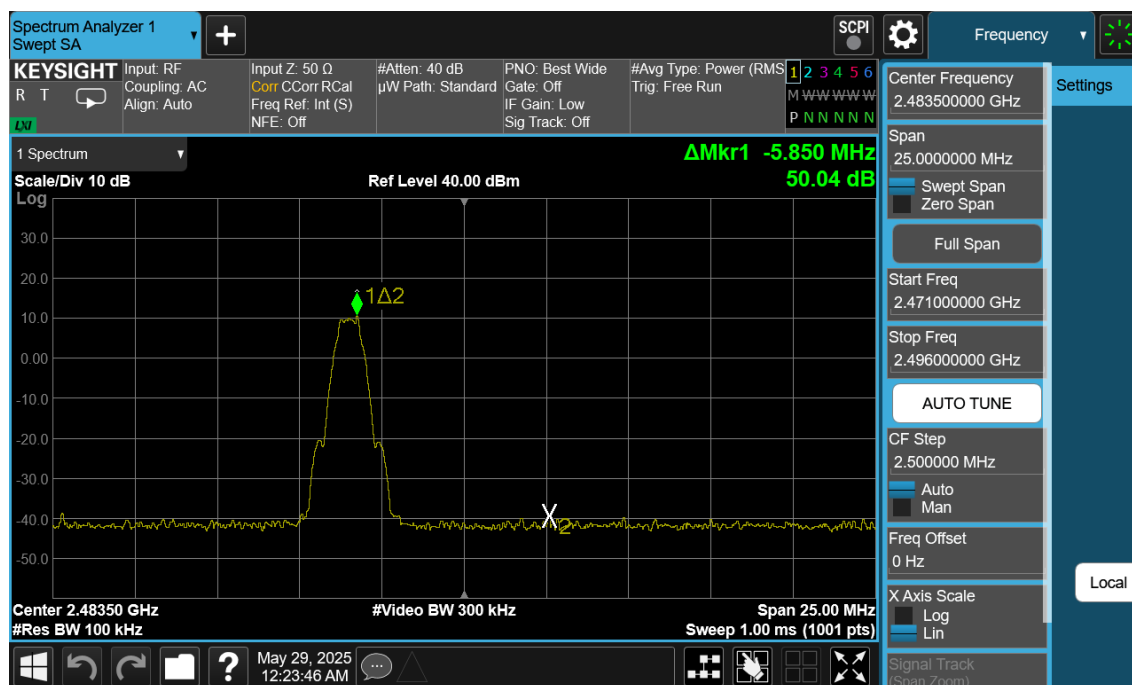
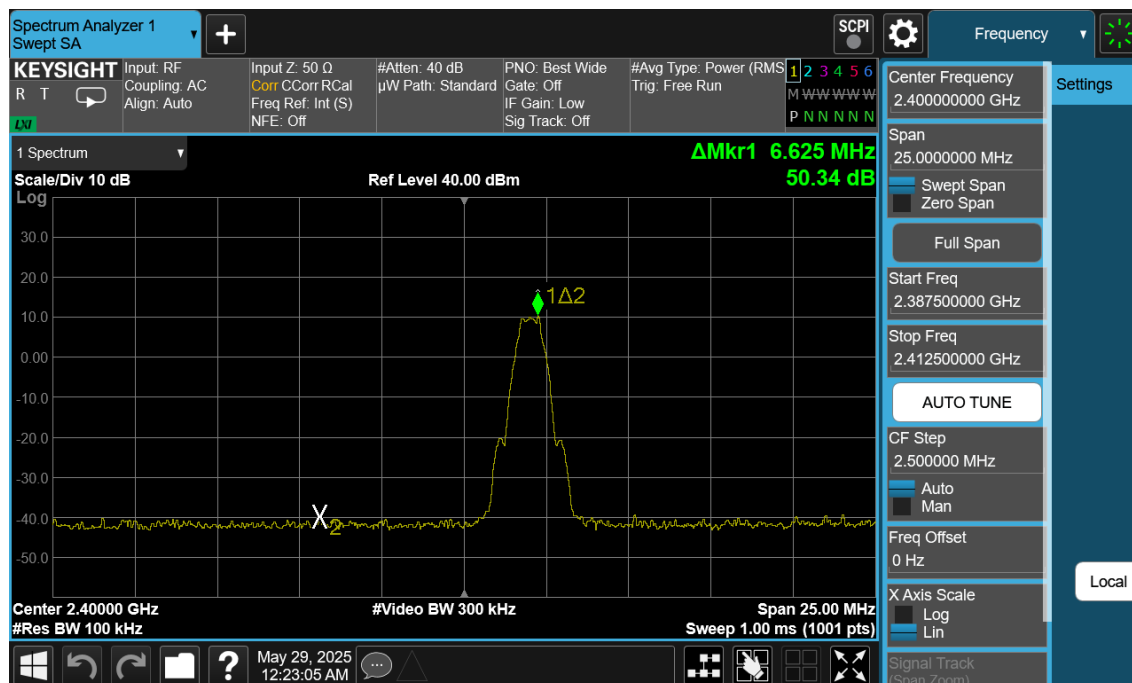
All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 64 of 108

V 10.6 10/27/2023

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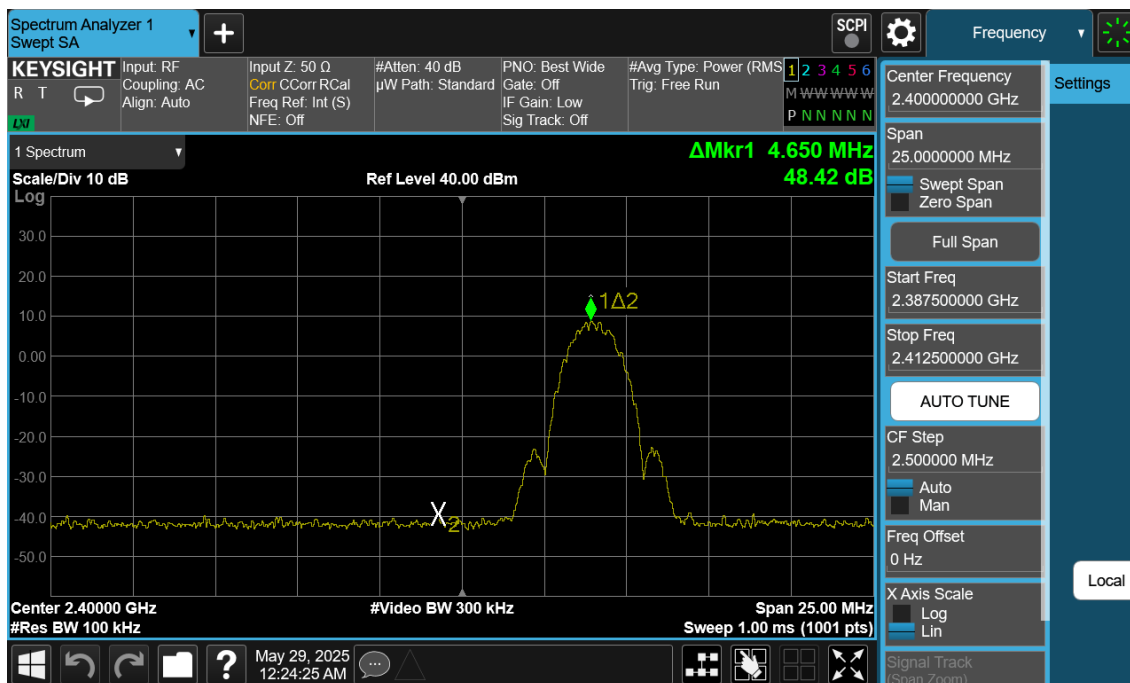
7.5.1 Ant1



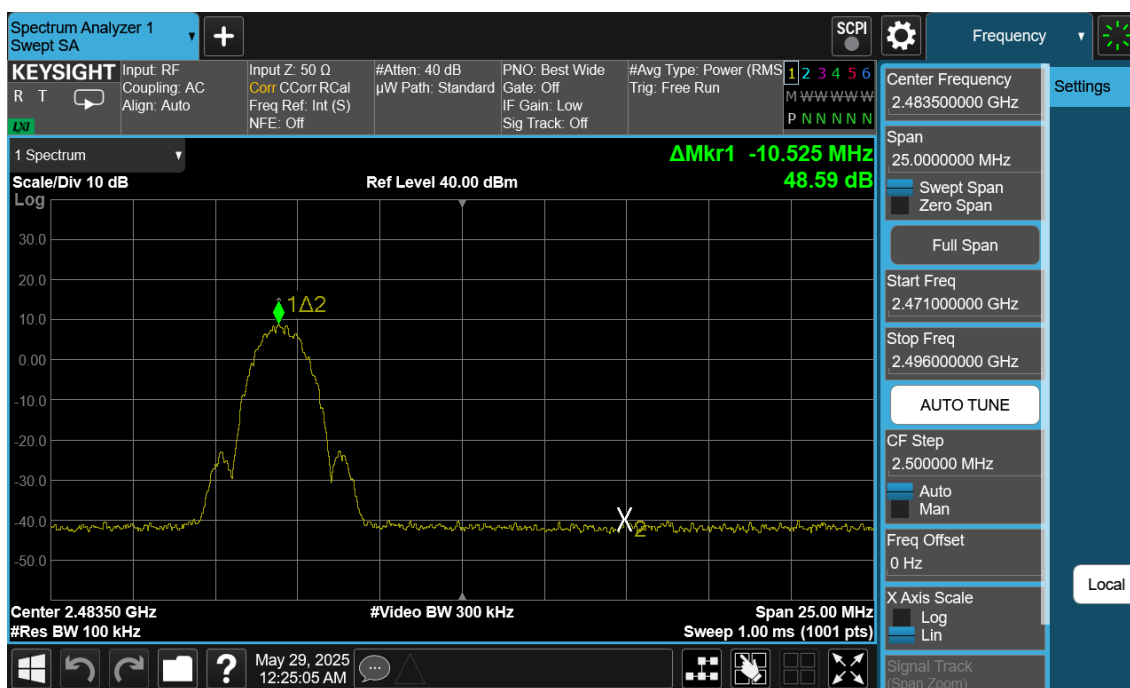
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 65 of 108

V 10.6 10/27/2023

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Plot 7-75. Band Edge Plot Ant1 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)



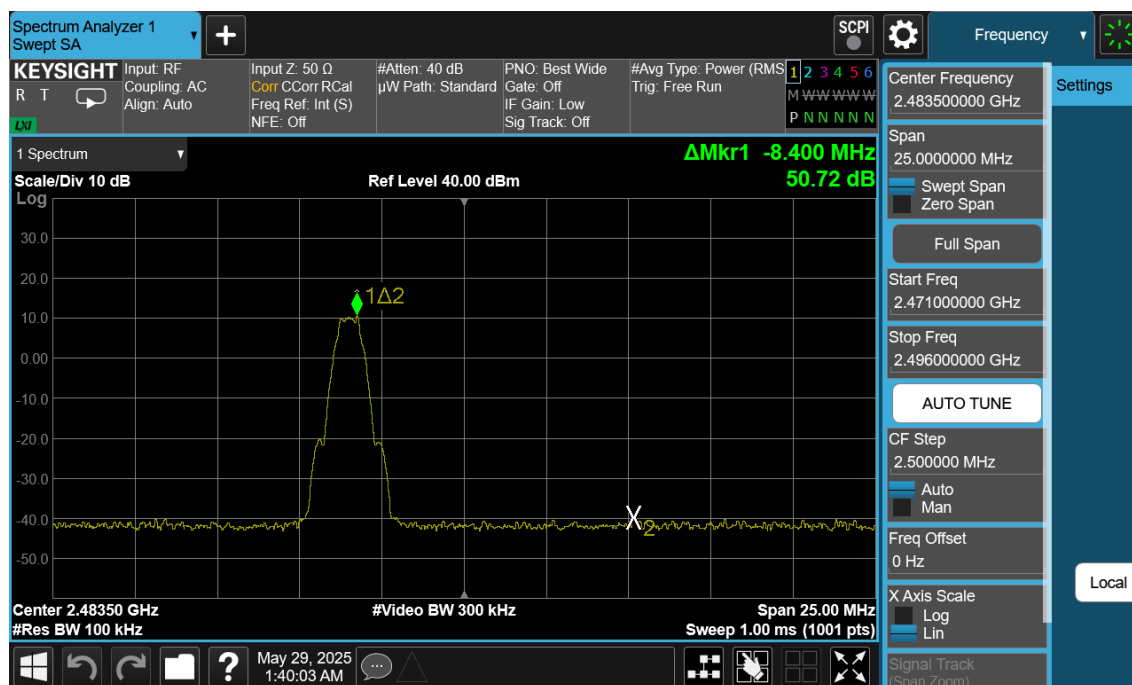
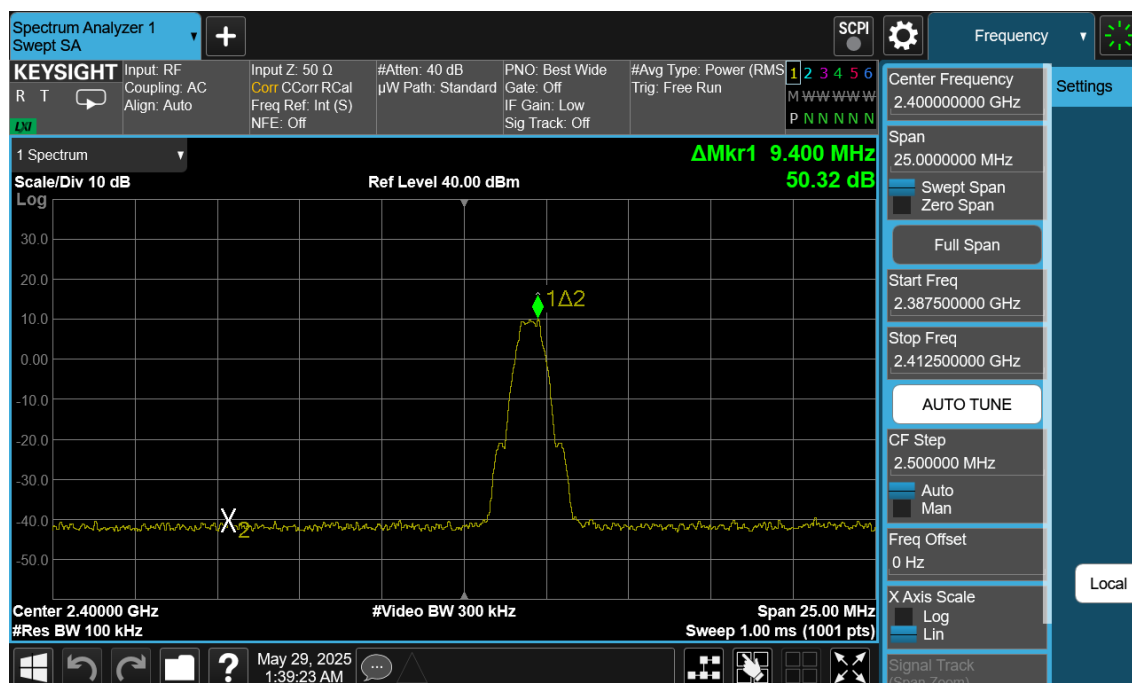
Plot 7-76. Band Edge Plot Ant1 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 66 of 108

V 10.6 10/27/2023

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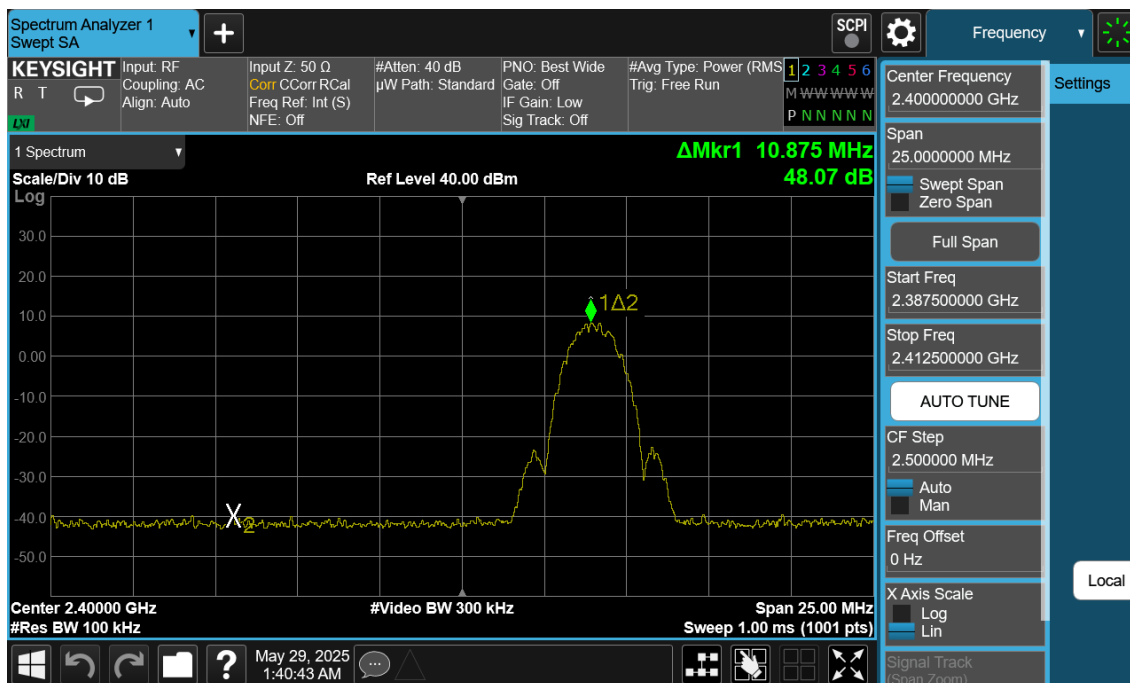
7.5.2 Ant2



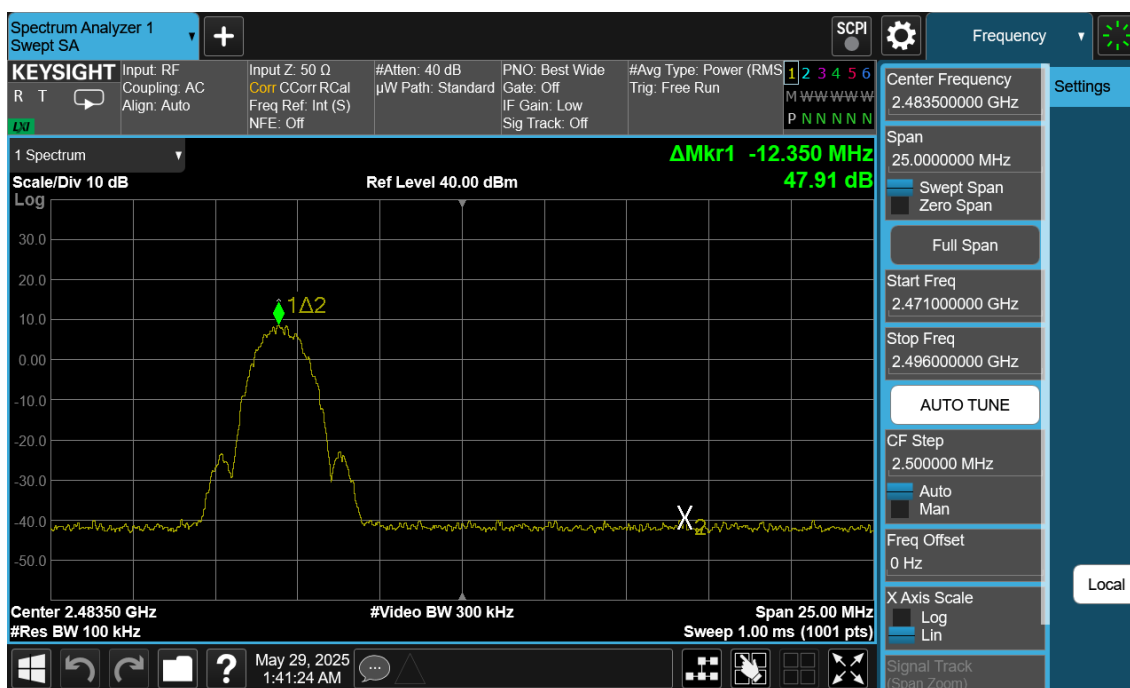
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 67 of 108

V 10.6 10/27/2023

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Plot 7-79. Band Edge Plot Ant2 (Bluetooth (LE), 2Mbps, ePA – Ch. 1)



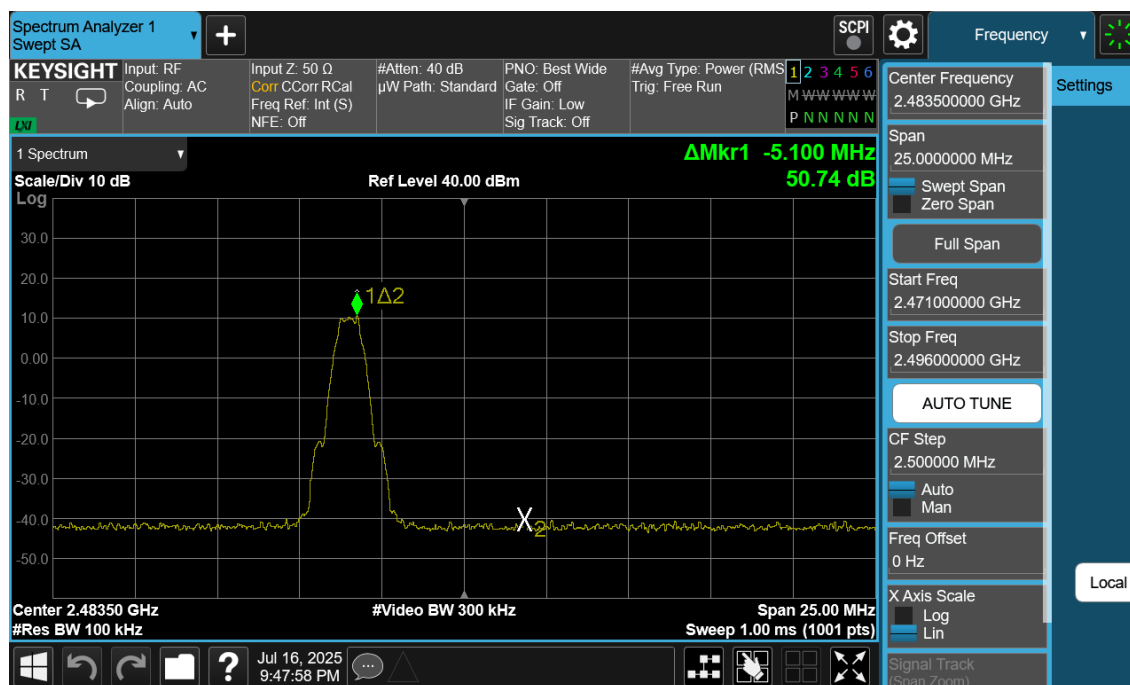
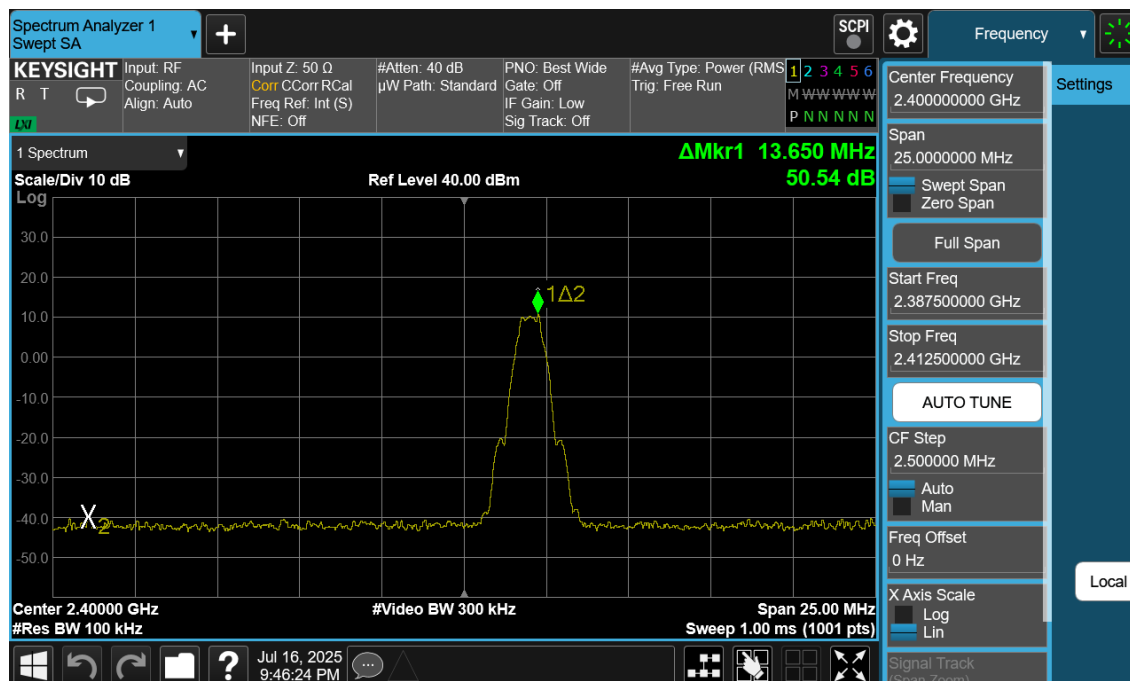
Plot 7-80. Band Edge Plot Ant2 (Bluetooth (LE), 2Mbps, ePA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 68 of 108

V 10.6 10/27/2023

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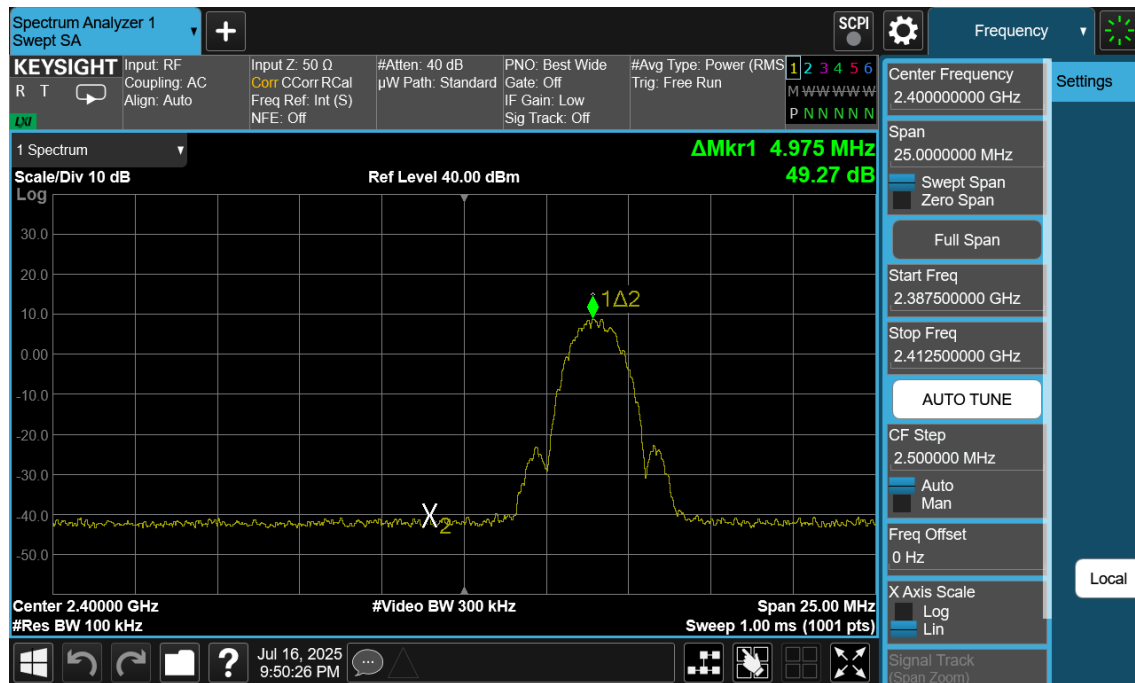
7.5.3 NB UNII_L



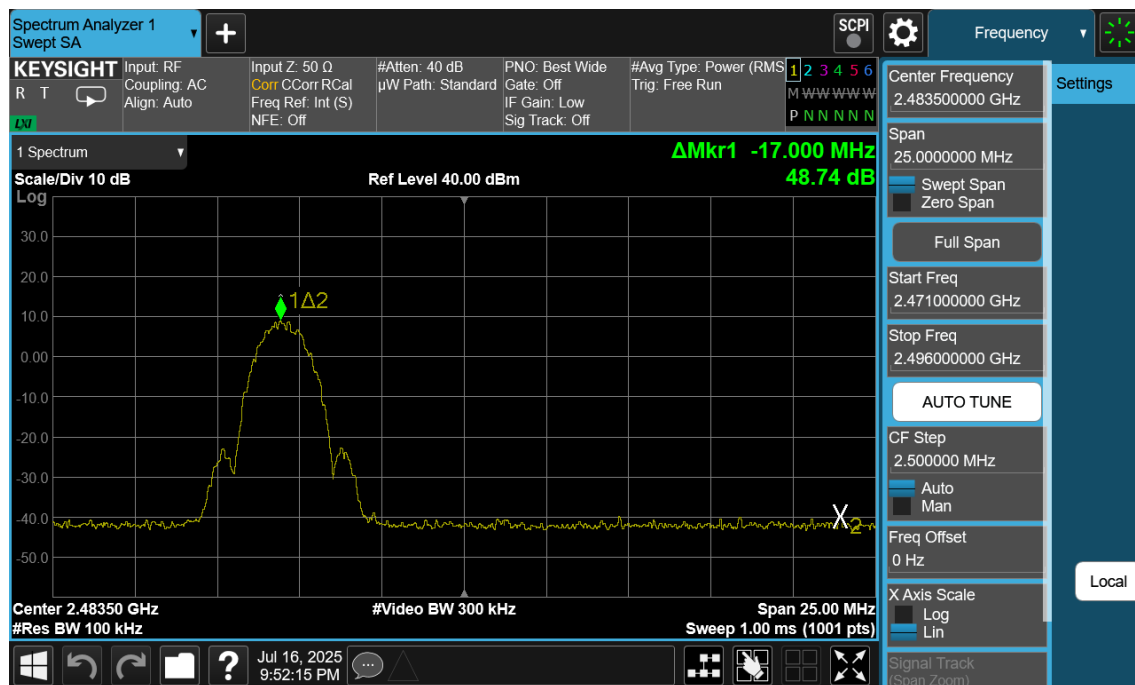
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 69 of 108

V 10.6 10/27/2023

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Plot 7-83. Band Edge Plot NB UNII_L (Bluetooth (LE), 2Mbps, iPA – Ch. 1)



Plot 7-84. Band Edge Plot NB UNII_L (Bluetooth (LE), 2Mbps, iPA – Ch. 38)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 70 of 108

V 10.6 10/27/2023

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7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Section 11.11 of ANSI C63.10-2020.

Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10-2020 – Subclause 14.5.3
KDB 662911 D01 v02r01 – Section E3)b)

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
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 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA3416 IC: 579C-A3416	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 71 of 108

V 10.6 10/27/2023

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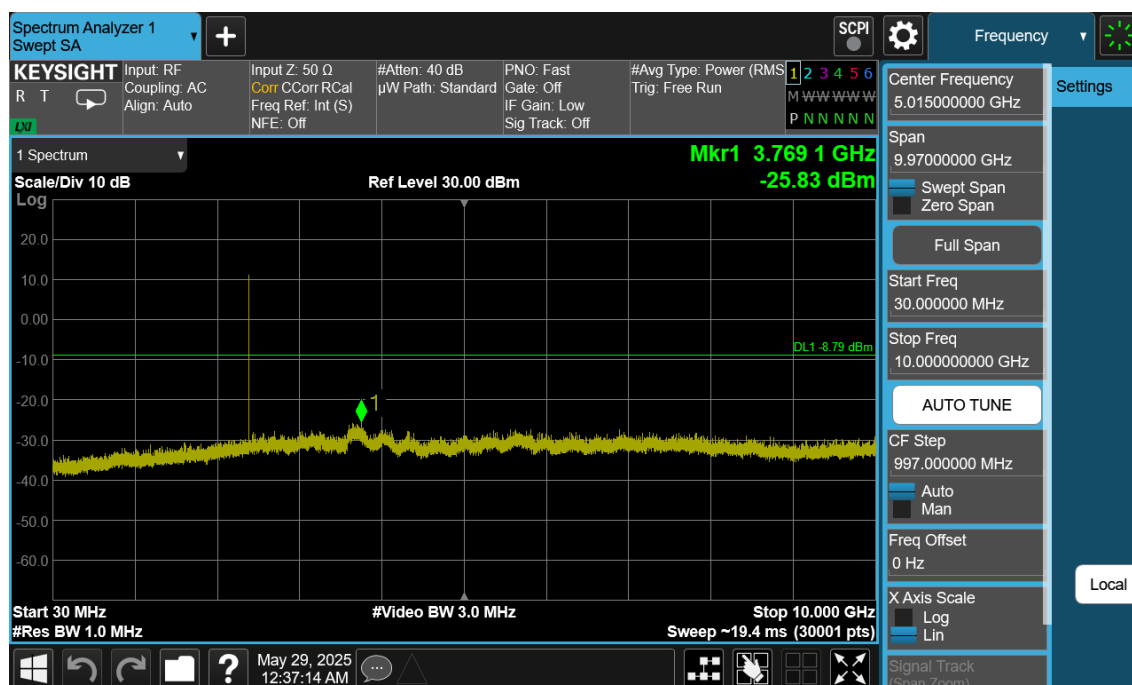
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

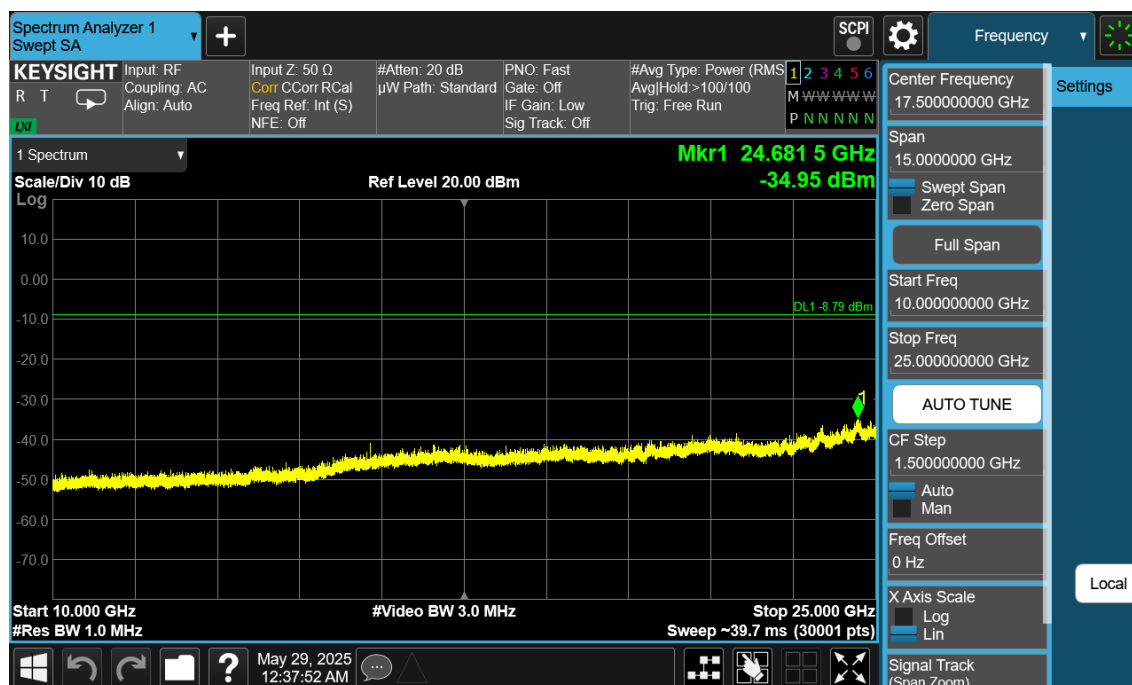
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 72 of 108

V 10.6 10/27/2023

7.6.1 Ant1



Plot 7-85. Conducted Spurious Plot Ant1 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)



Plot 7-86. Conducted Spurious Plot Ant1 (Bluetooth (LE), 1Mbps, ePA – Ch. 0)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-02.BCG	Test Dates: 5/12/2025 - 08/19/2025	EUT Type: Head Mounted Device	Page 73 of 108

V 10.6 10/27/2023

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