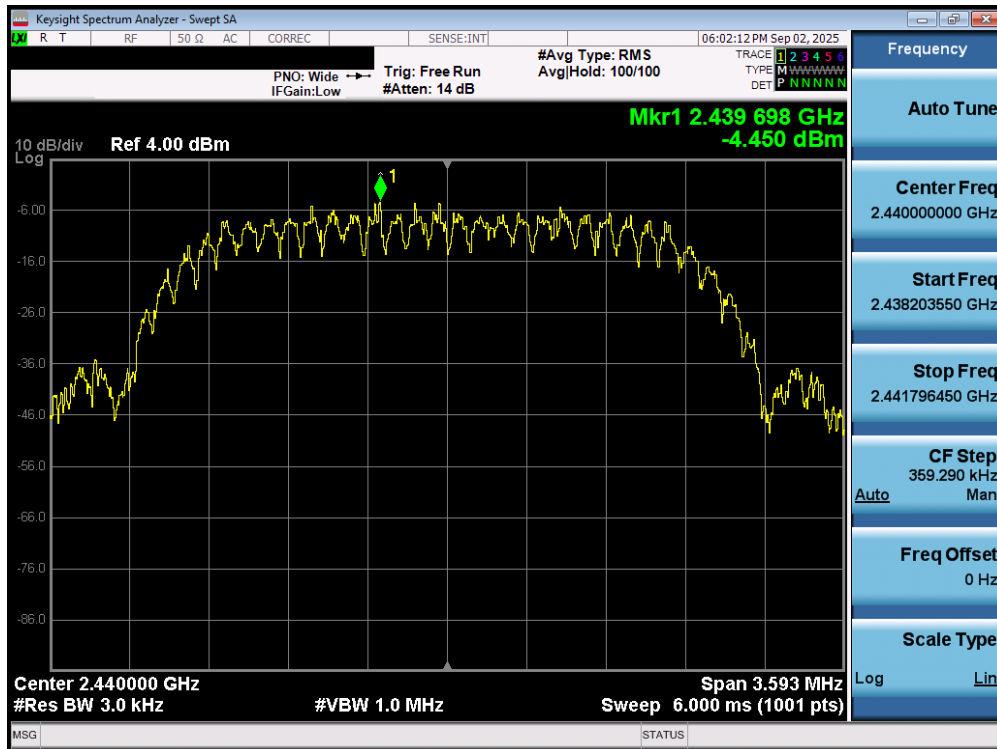
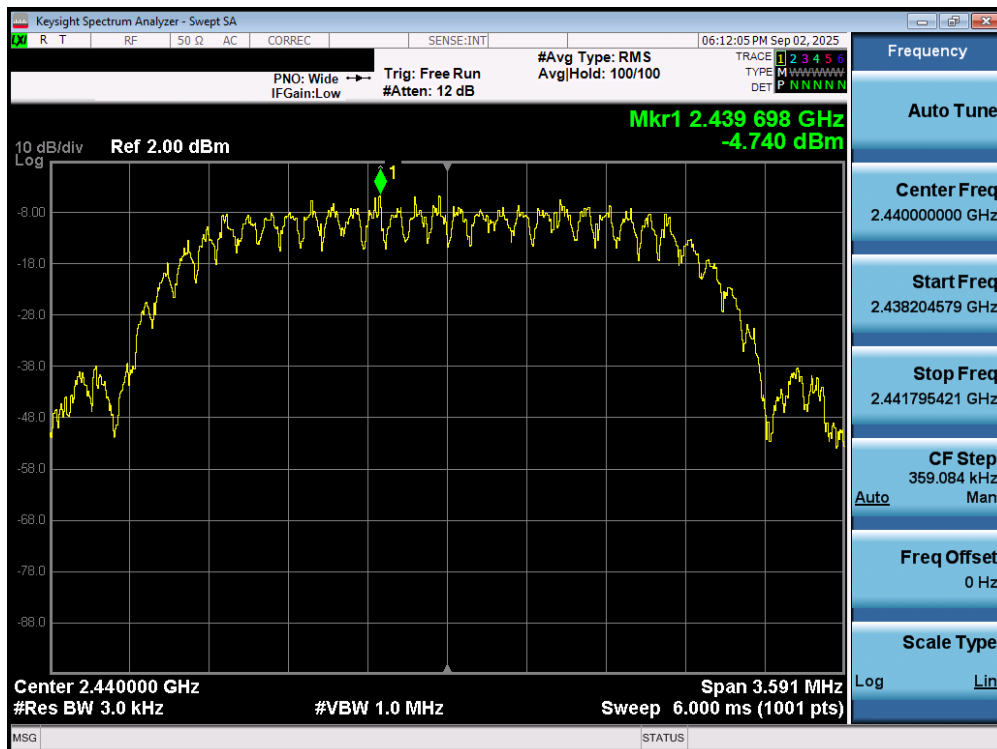




Plot 7-297. Power Spectral Density Plot Tx BF Diversity Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)

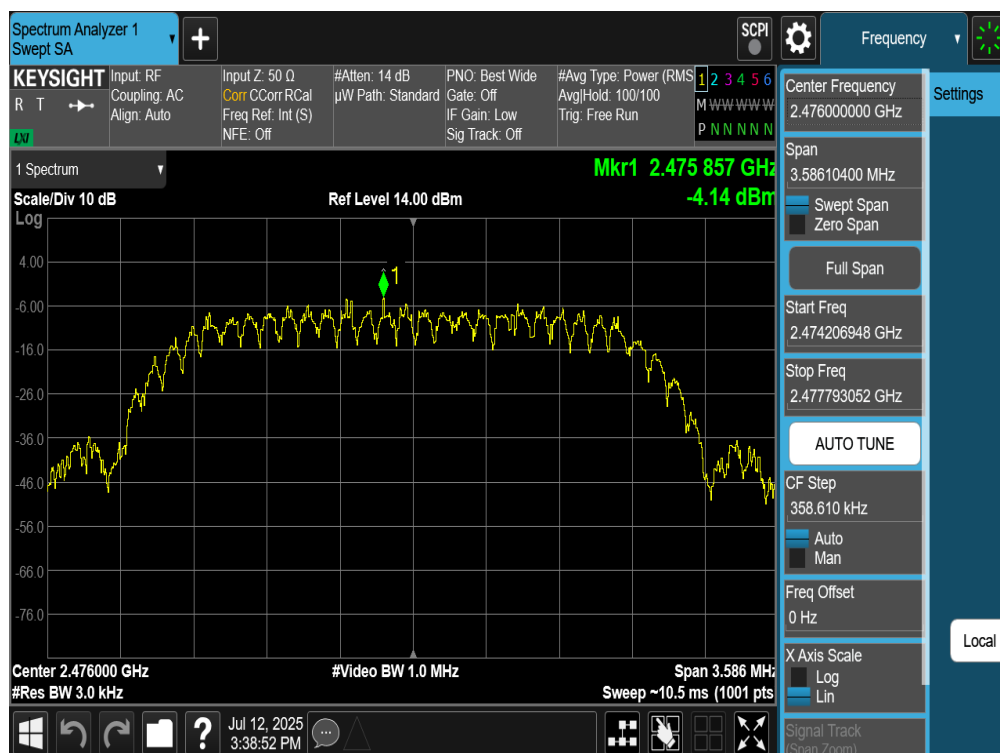


Plot 7-298. Power Spectral Density Plot Tx BF Diversity Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 37)

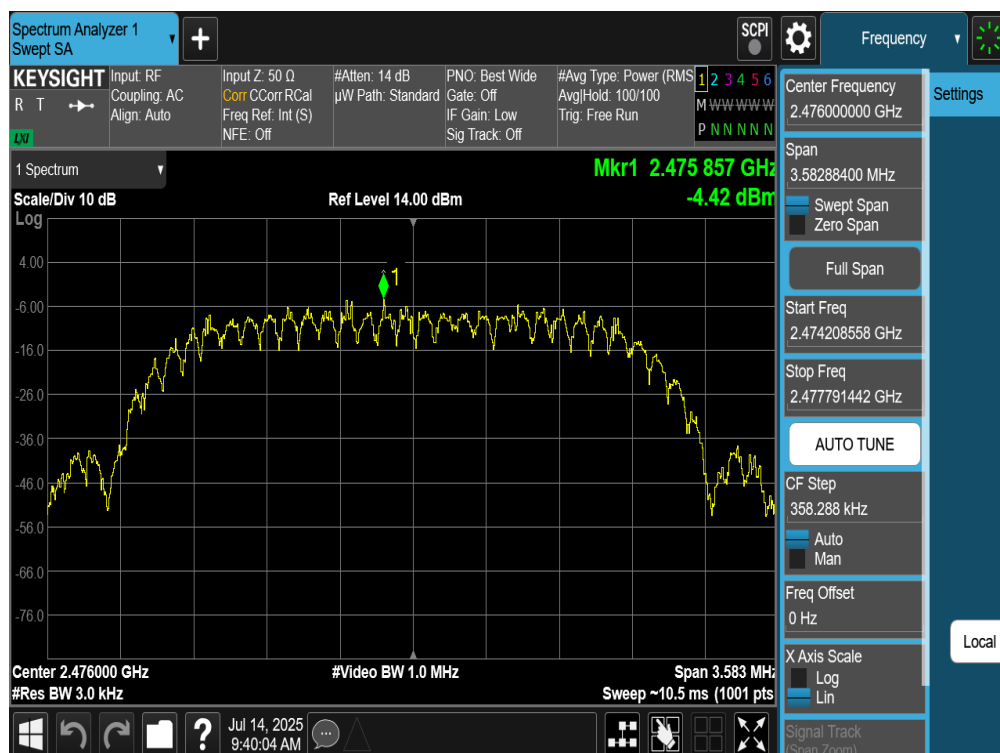
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-299. Power Spectral Density Plot Tx BF Diversity Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

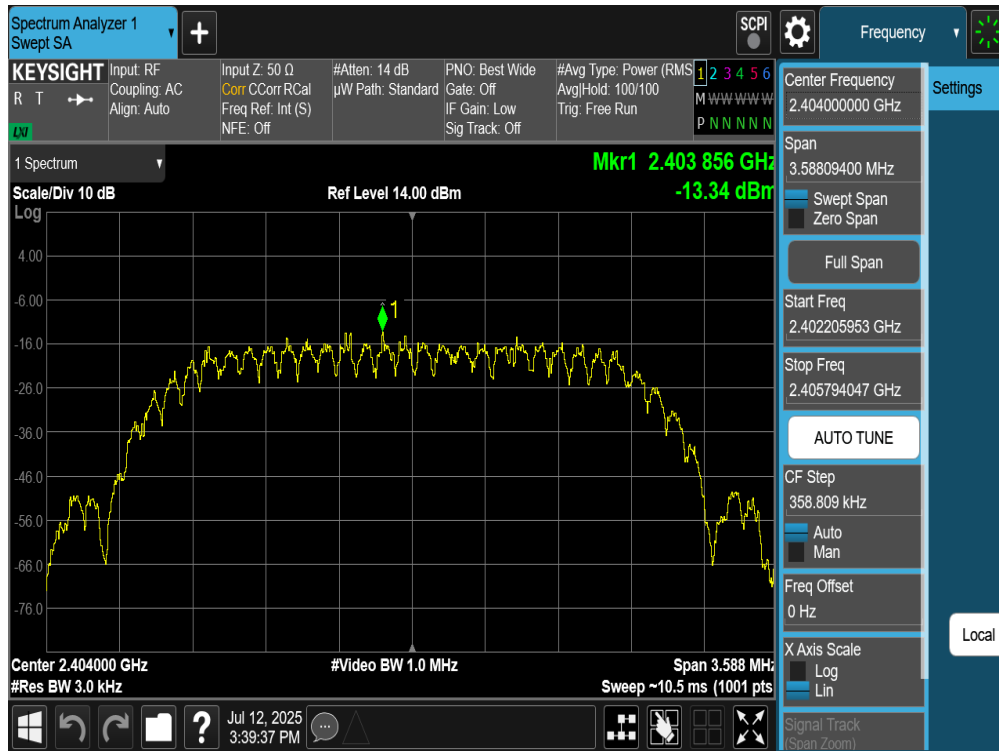


Plot 7-300. Power Spectral Density Plot Tx BF Diversity Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

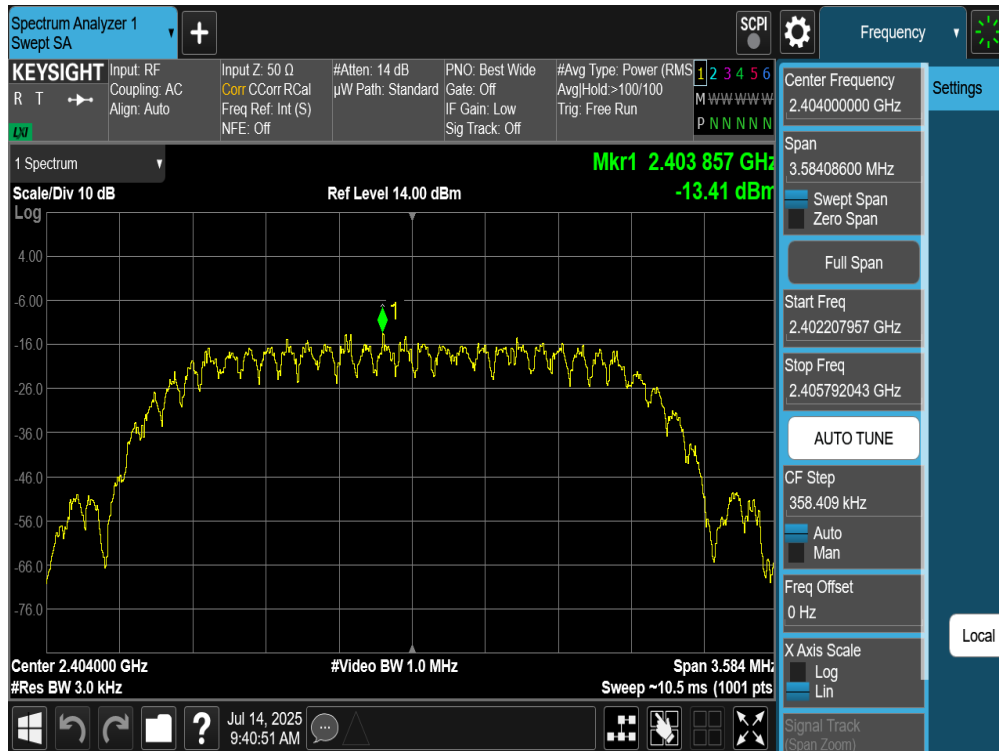
FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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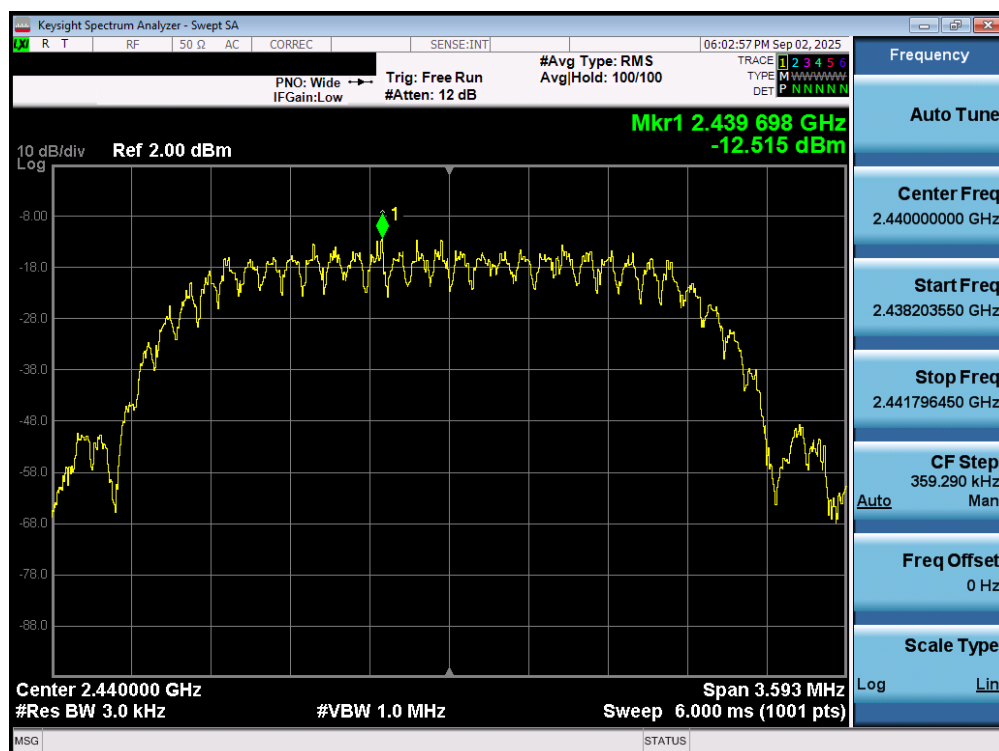


Plot 7-301. Power Spectral Density Plot TxBF Diversity Antenna WF8 (Bluetooth (HDT2), 2Mbps, iPA – Ch. 1)

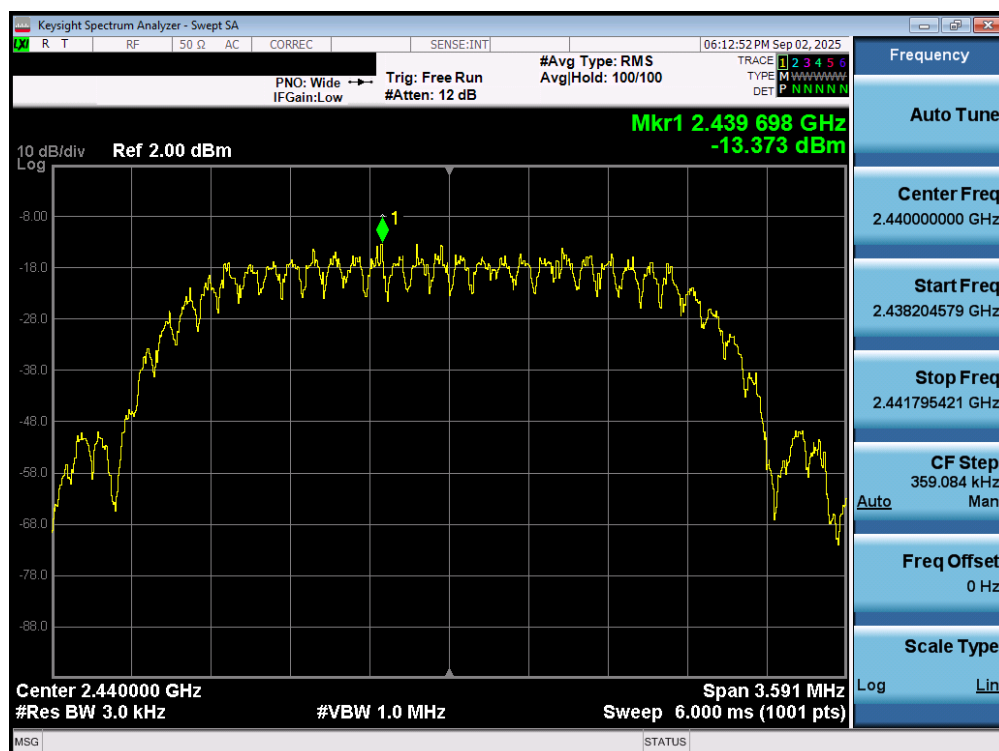


Plot 7-302. Power Spectral Density Plot TxBF Diversity Antenna WF9 (Bluetooth (HDT2), 2Mbps, iPA – Ch. 1)

FCC ID: BCGA3360 IC: 579C-A3360	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-303. Power Spectral Density Plot TxBF Diversity Antenna WF8 (Bluetooth (HDT2), 2Mbps, iPA – Ch. 37)

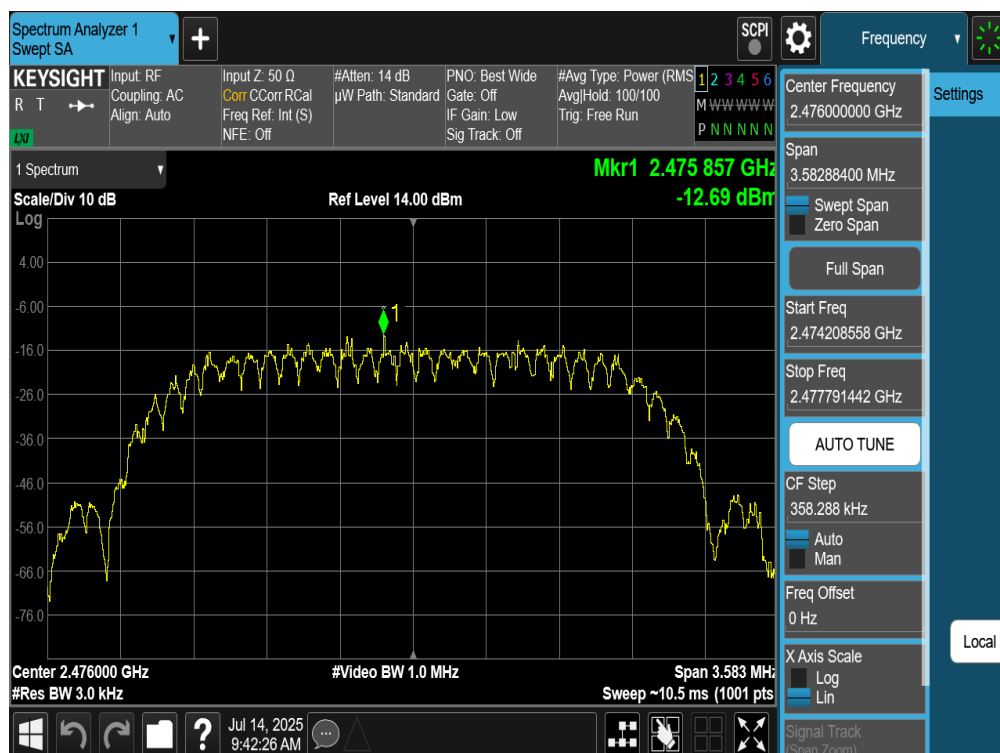
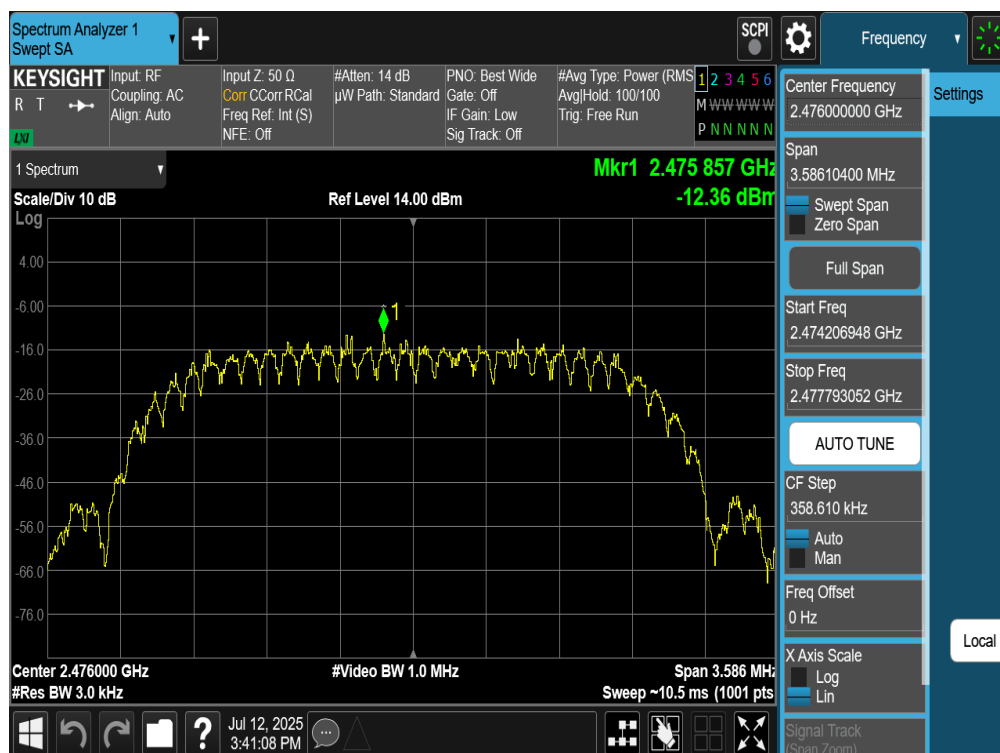


Plot 7-304. Power Spectral Density Plot TxBF Diversity Antenna WF9 (Bluetooth (HDT2), 2Mbps, iPA – Ch. 37)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 Subclause 14.5.2.2 and KDB 662911 D01 v02r01 Section E)2), the power spectral density at Antenna WF8 and Antenna WF9 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 2404MHz the average conducted power spectral density was measured to be -0.19 dBm for Antenna WF8 and -1.15 dBm for Antenna WF7.

Antenna WF8 + Antenna WF7 = TxBF Primary

$$(-0.19 \text{ dBm} + -1.15 \text{ dBm}) = (0.957 \text{ mW} + 0.767 \text{ mW}) = 1.724 \text{ mW} = 2.37 \text{ dBm}$$

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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.



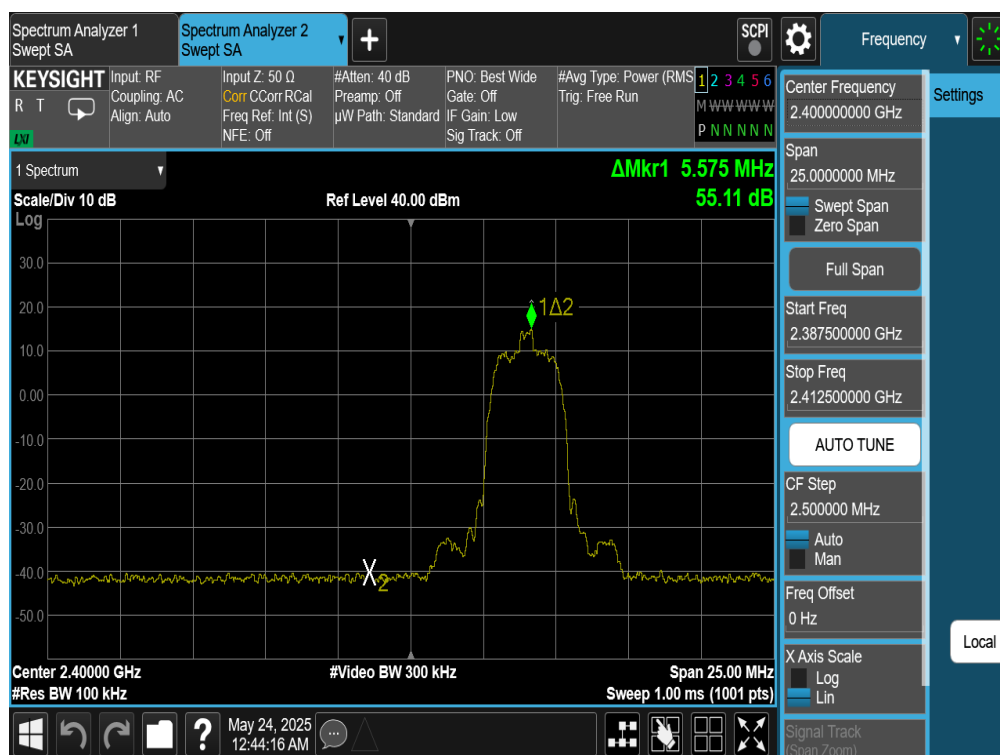
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

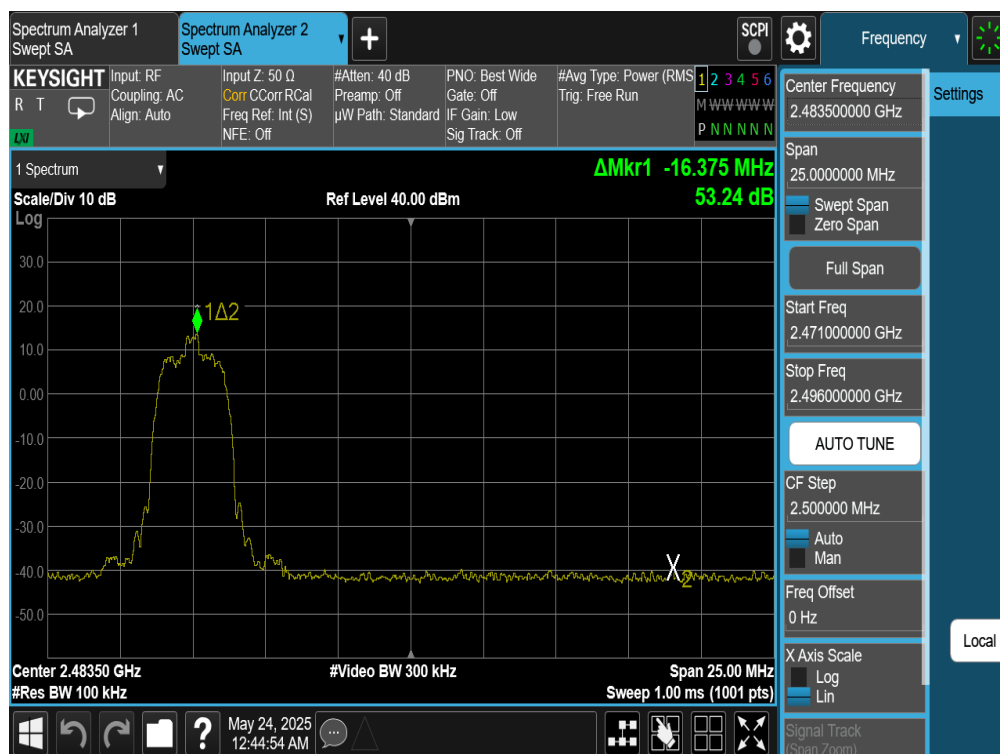
All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

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7.5.1 Antenna WF8



Plot 7-307. Band Edge Plot Antenna WF8 (Bluetooth (HDR4), ePA – Ch. 1)

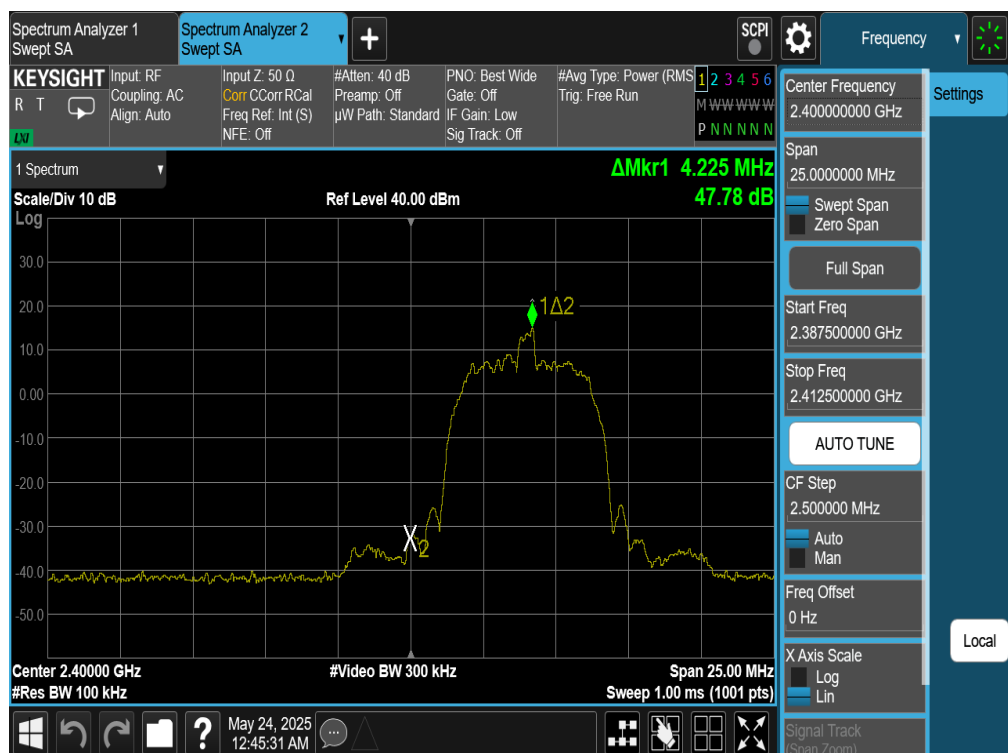


Plot 7-308. Band Edge Plot Antenna WF8 (Bluetooth (HDR4), ePA – Ch. 73)

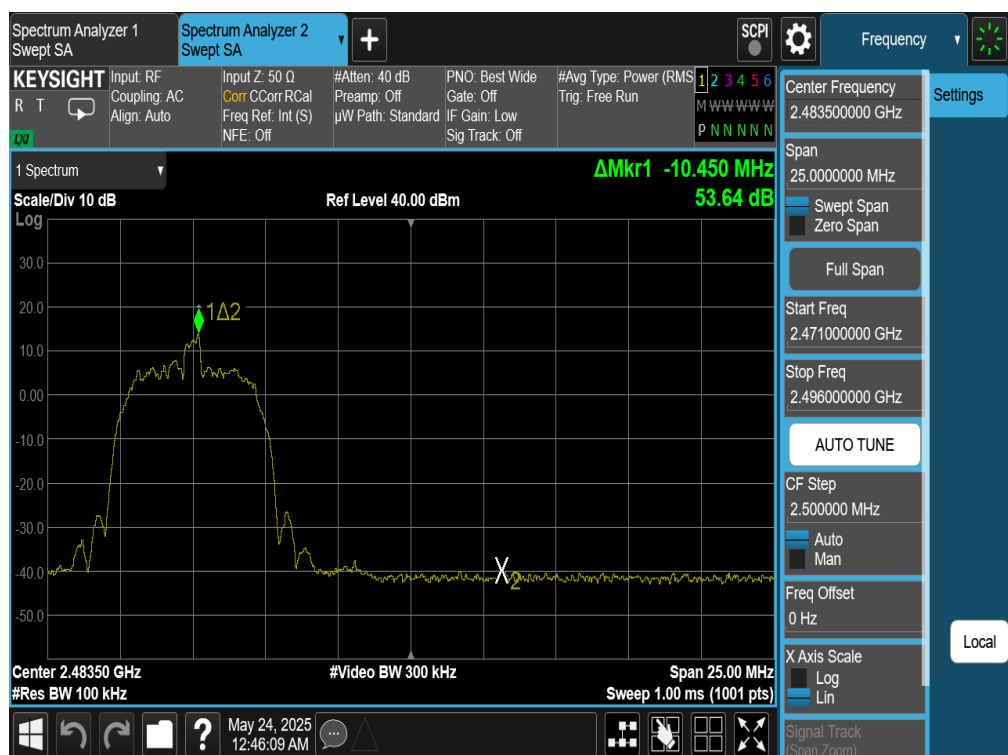
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-309. Band Edge Plot Antenna WF8 (Bluetooth (HDR8), ePA – Ch. 1)

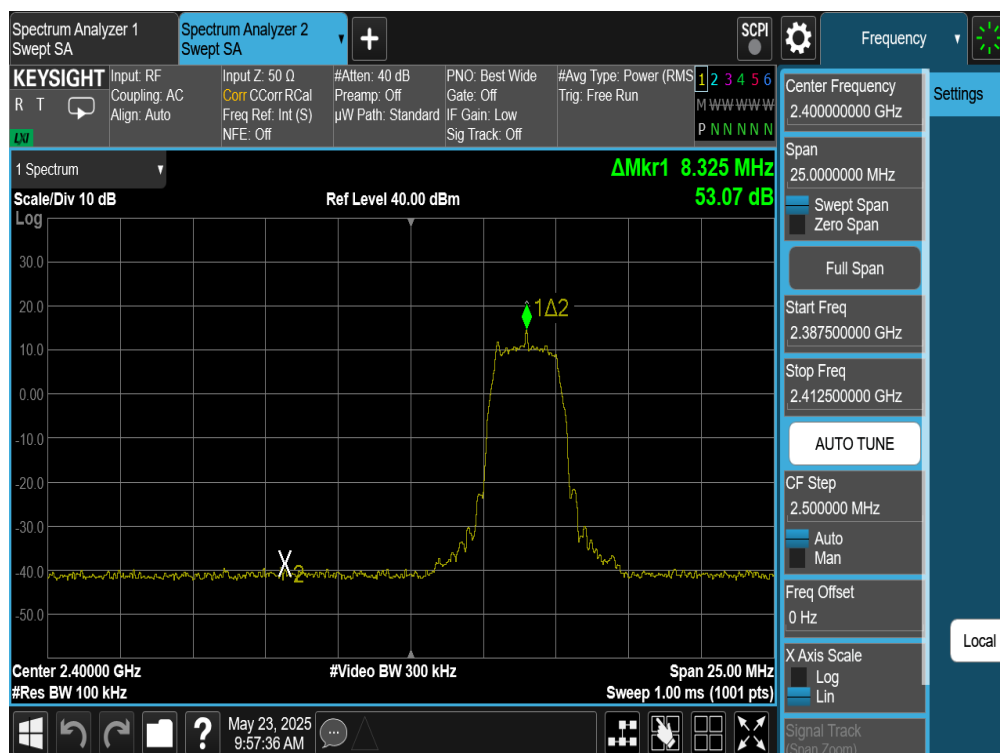


Plot 7-310. Band Edge Plot Antenna WF8 (Bluetooth (HDR8), ePA – Ch. 73)

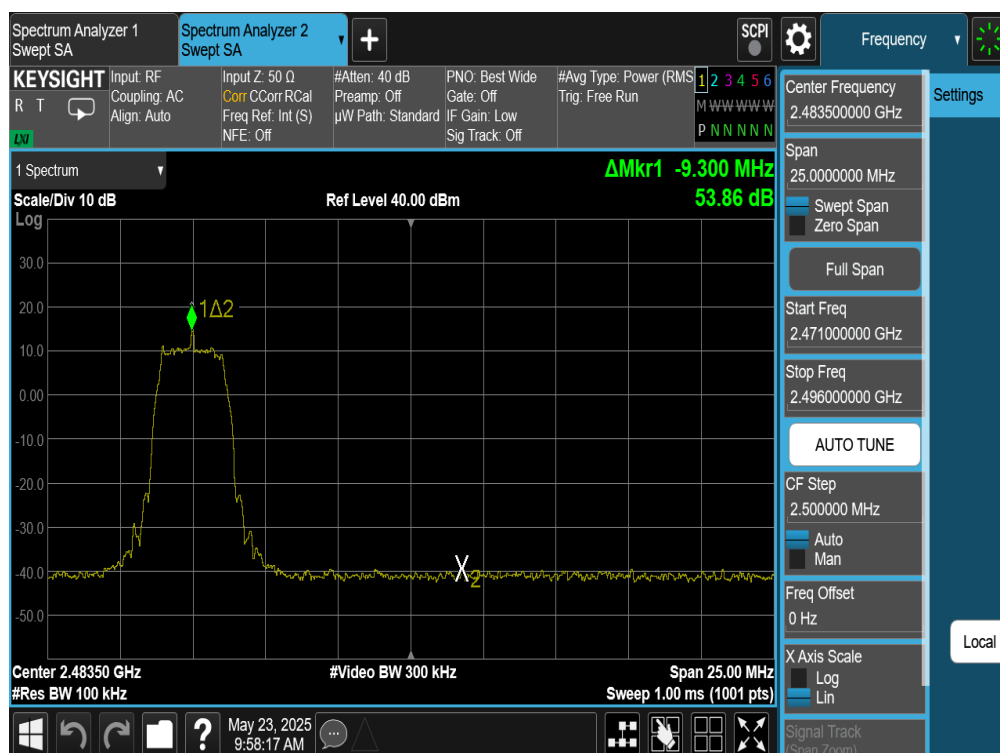
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-311. Band Edge Plot Antenna WF8 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 1)

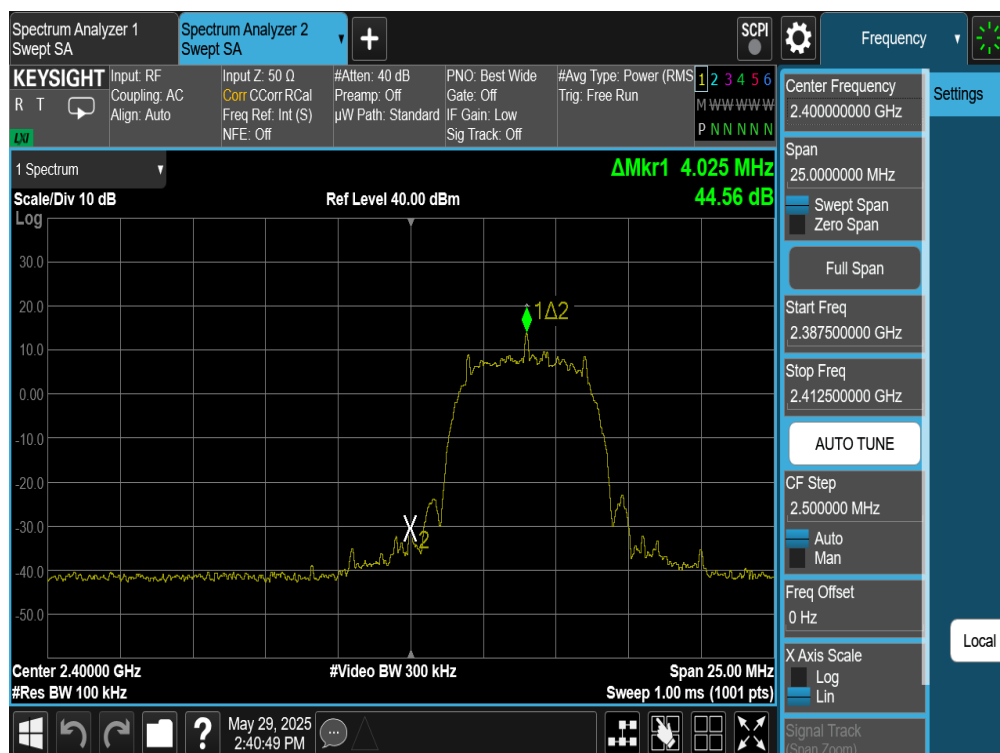


Plot 7-312. Band Edge Plot Antenna WF8 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 73)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-313. Band Edge Plot Antenna WF8 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

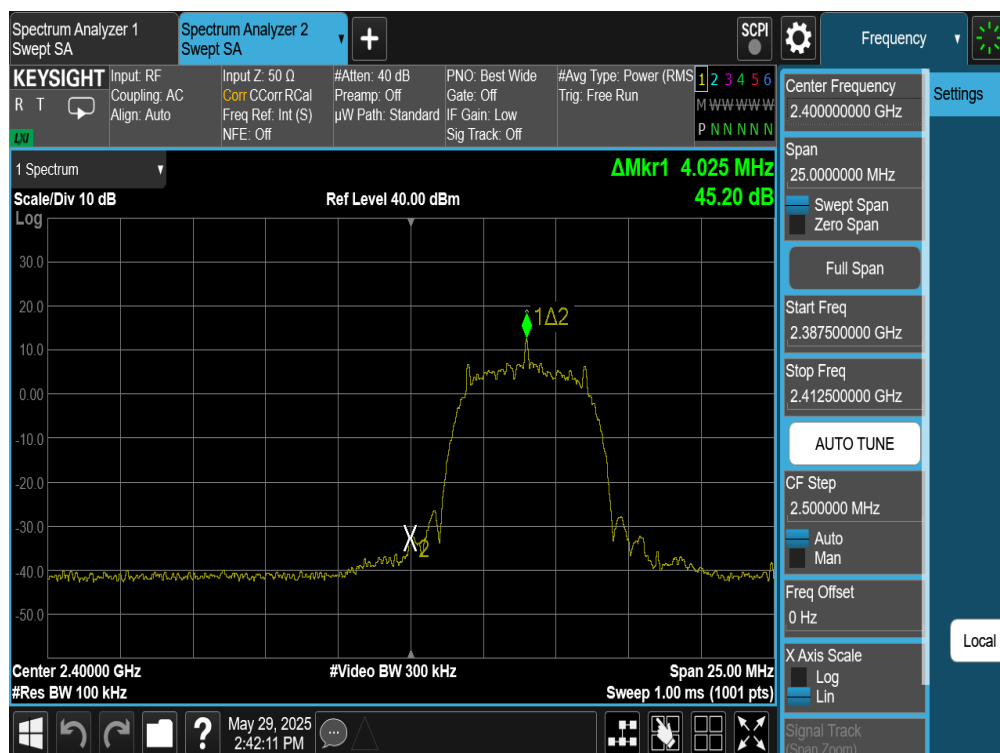


Plot 7-314. Band Edge Plot Antenna WF8 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

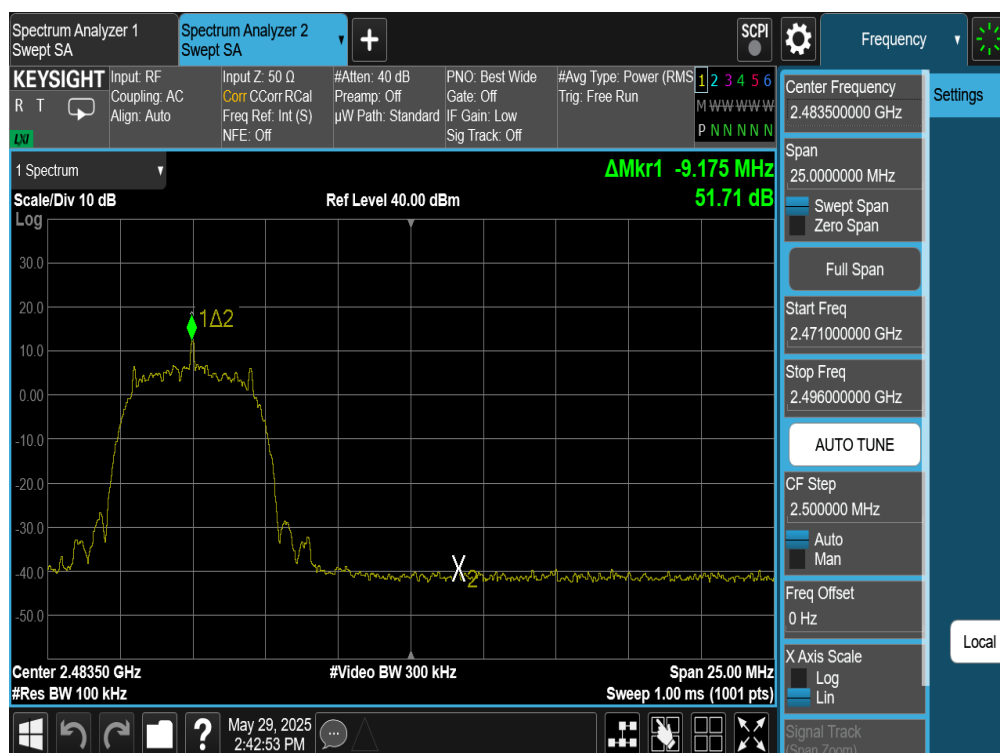
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-315. Band Edge Plot Antenna WF8 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

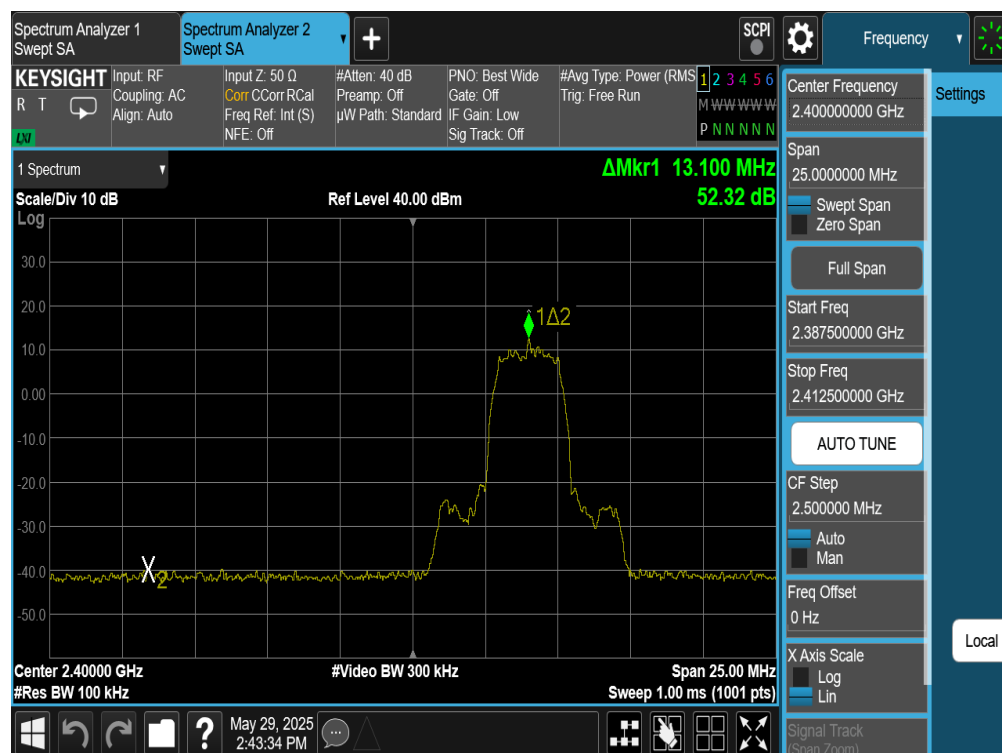


Plot 7-316. Band Edge Plot Antenna WF8 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

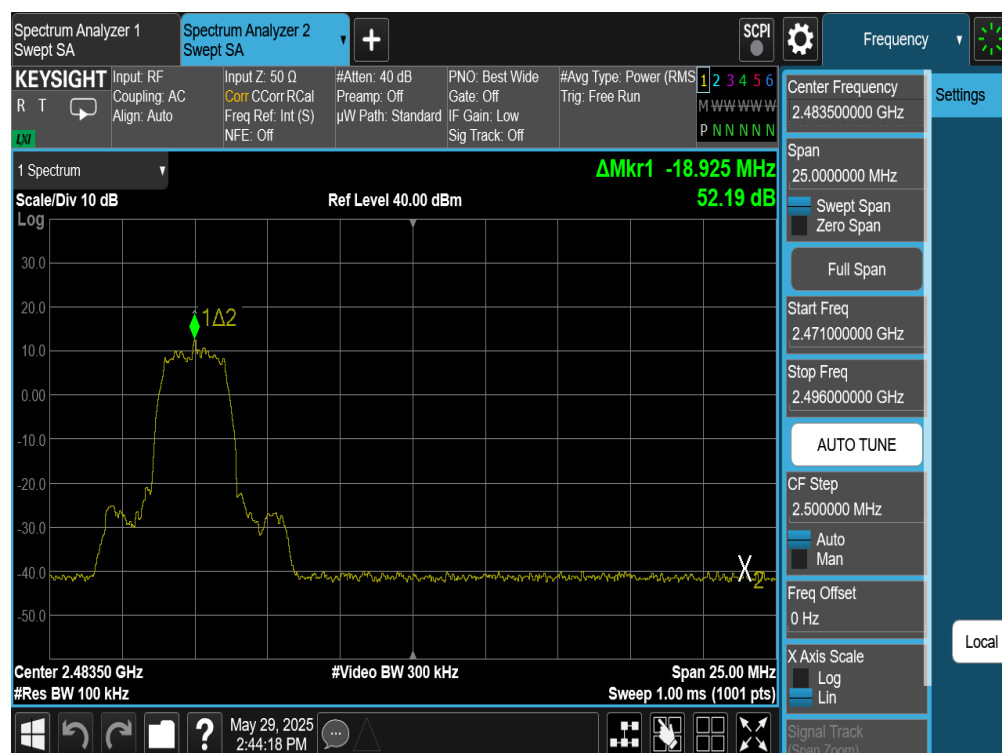
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-317. Band Edge Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)



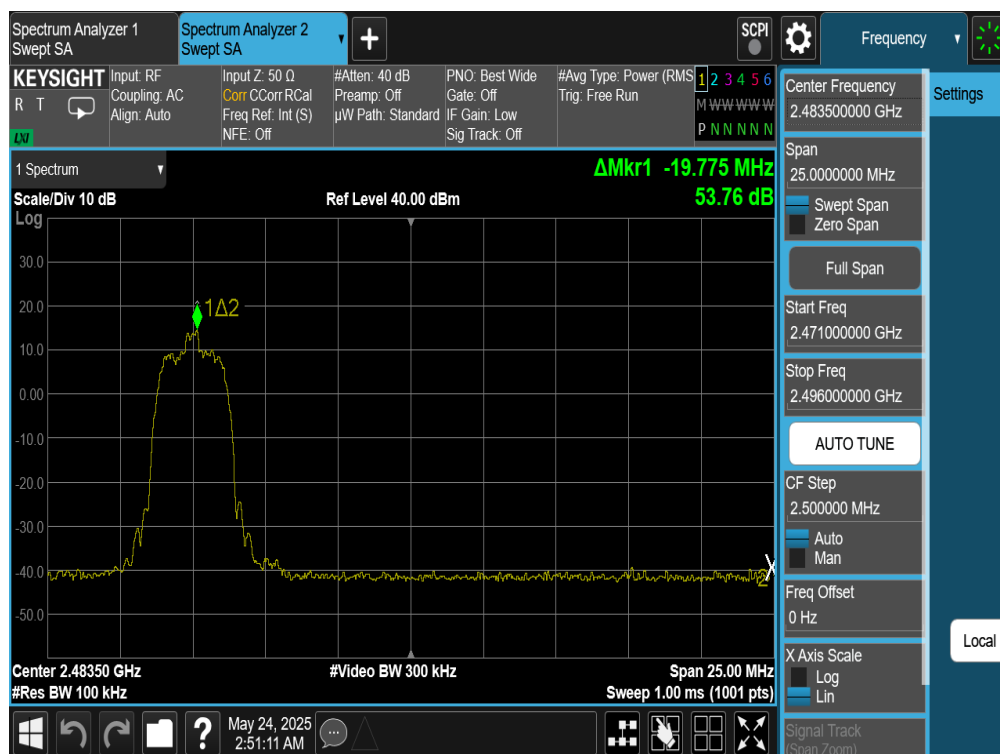
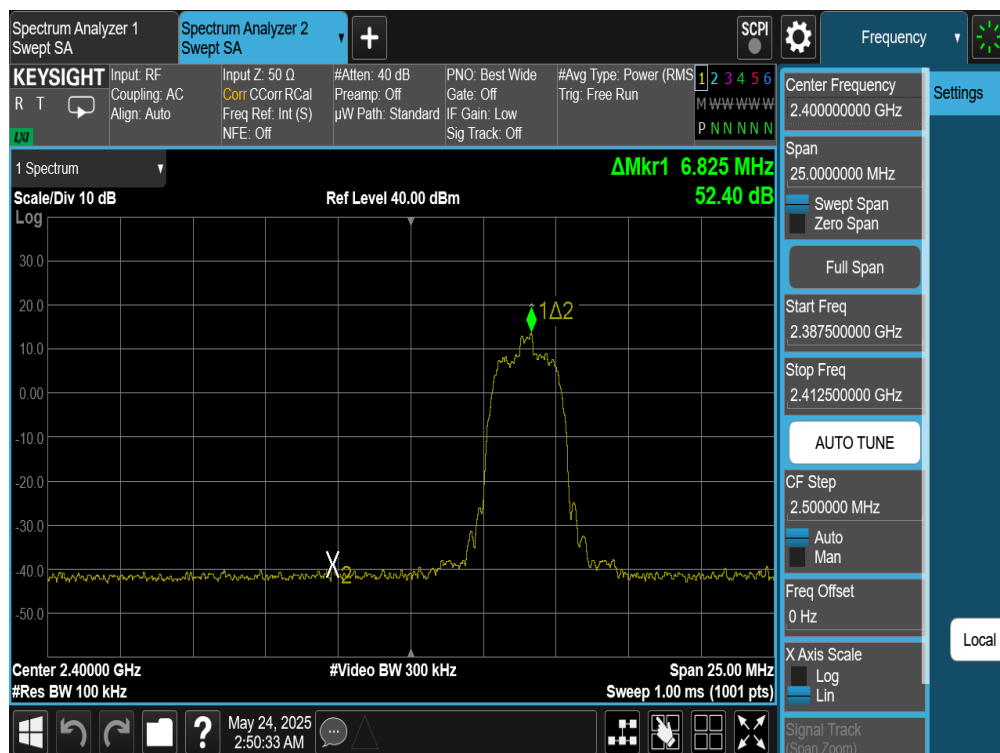
Plot 7-318. Band Edge Plot Antenna WF8 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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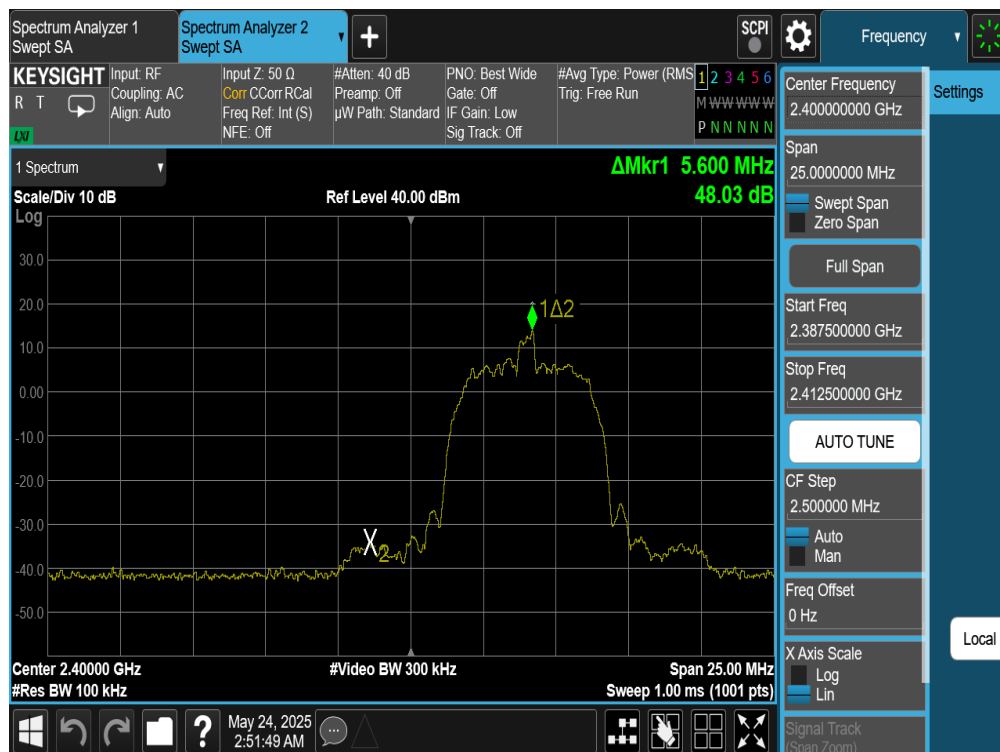
7.5.2 Antenna WF7



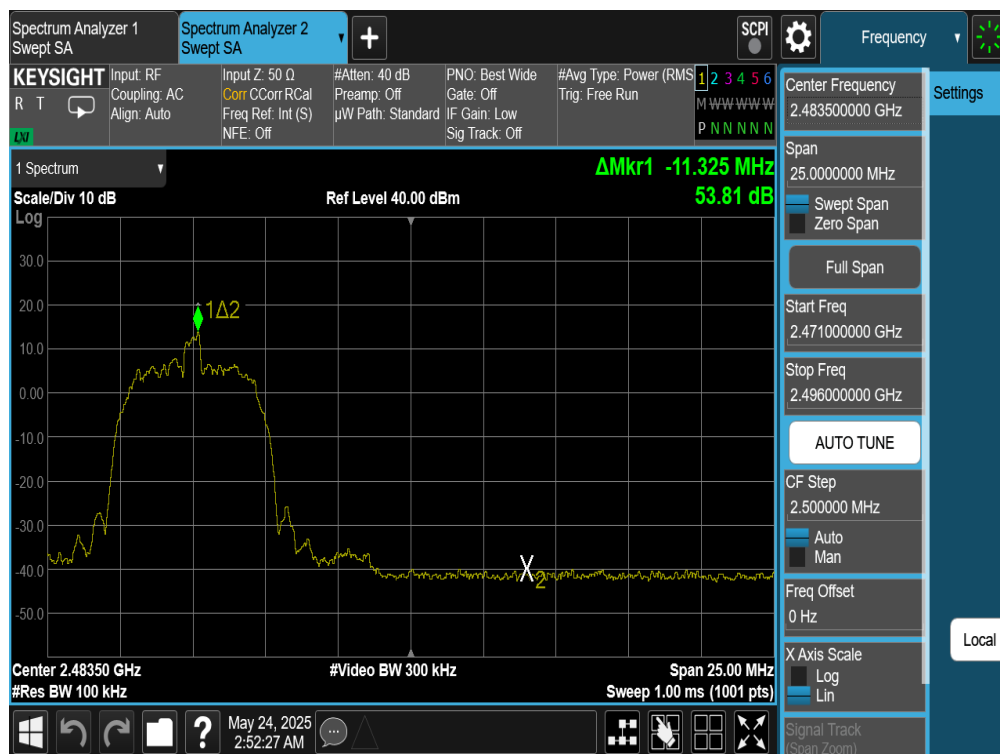
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-321. Band Edge Plot Antenna WF7 (Bluetooth (HDR8), ePA – Ch. 1)

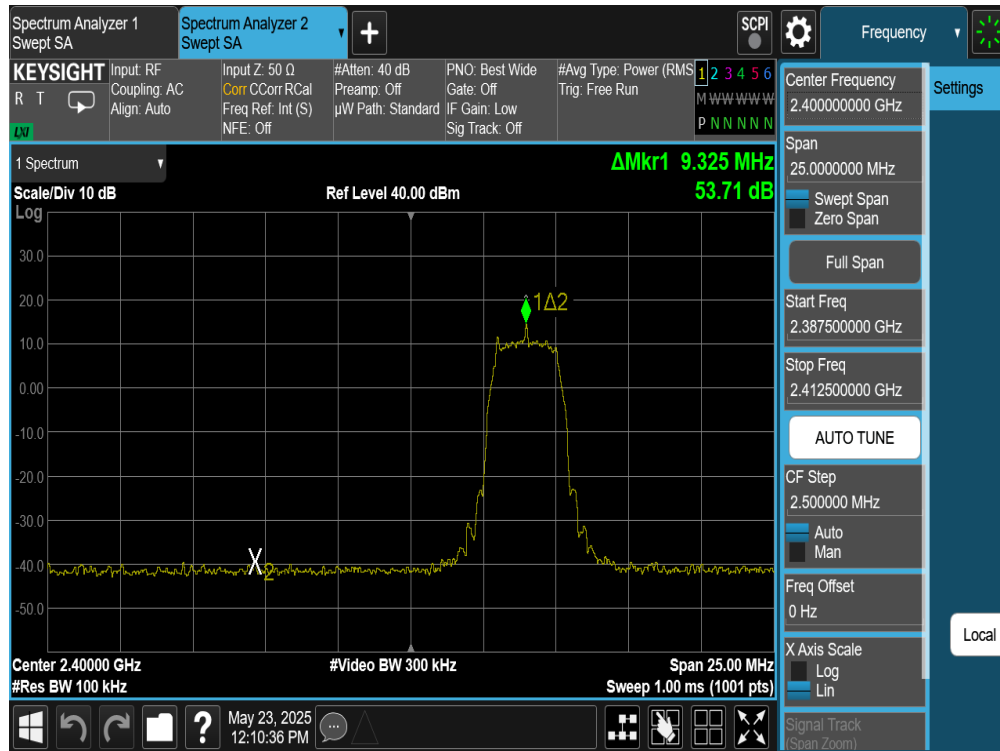


Plot 7-322. Band Edge Plot Antenna WF7 (Bluetooth (HDR8), ePA – Ch. 73)

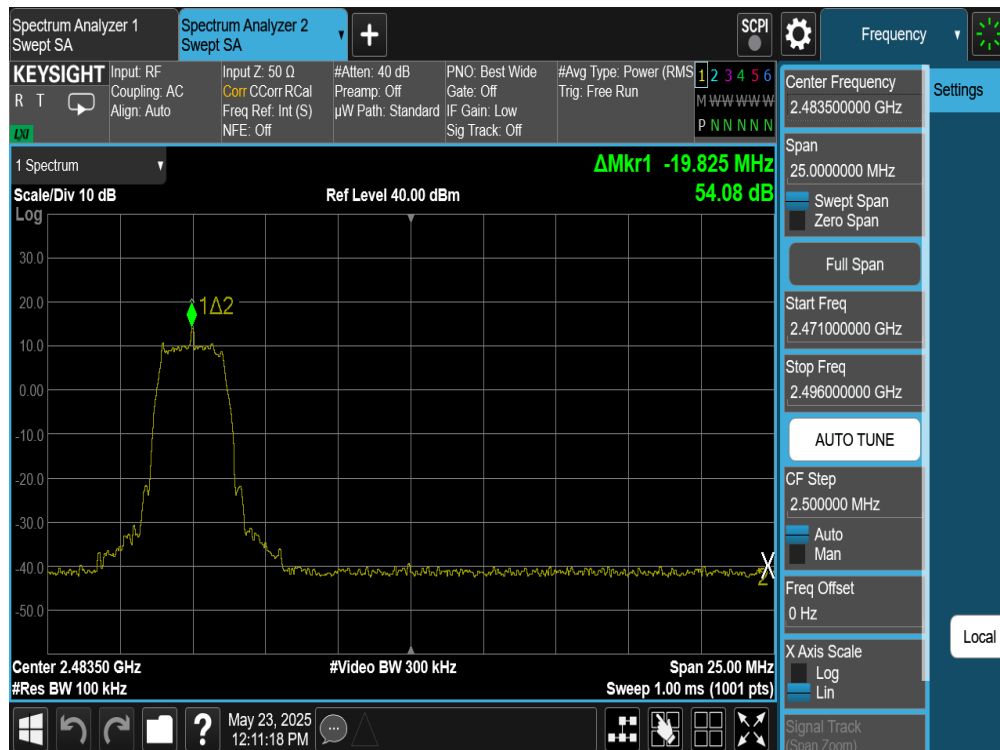
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-323. Band Edge Plot Antenna WF7 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 1)

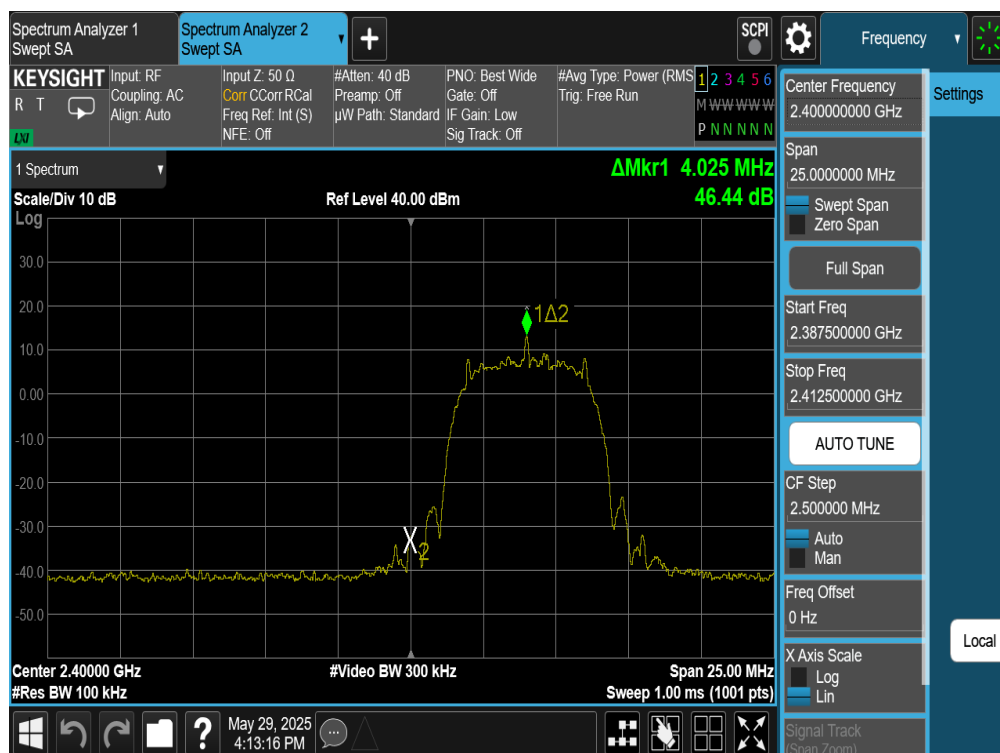


Plot 7-324. Band Edge Plot Antenna WF7 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 73)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-325. Band Edge Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

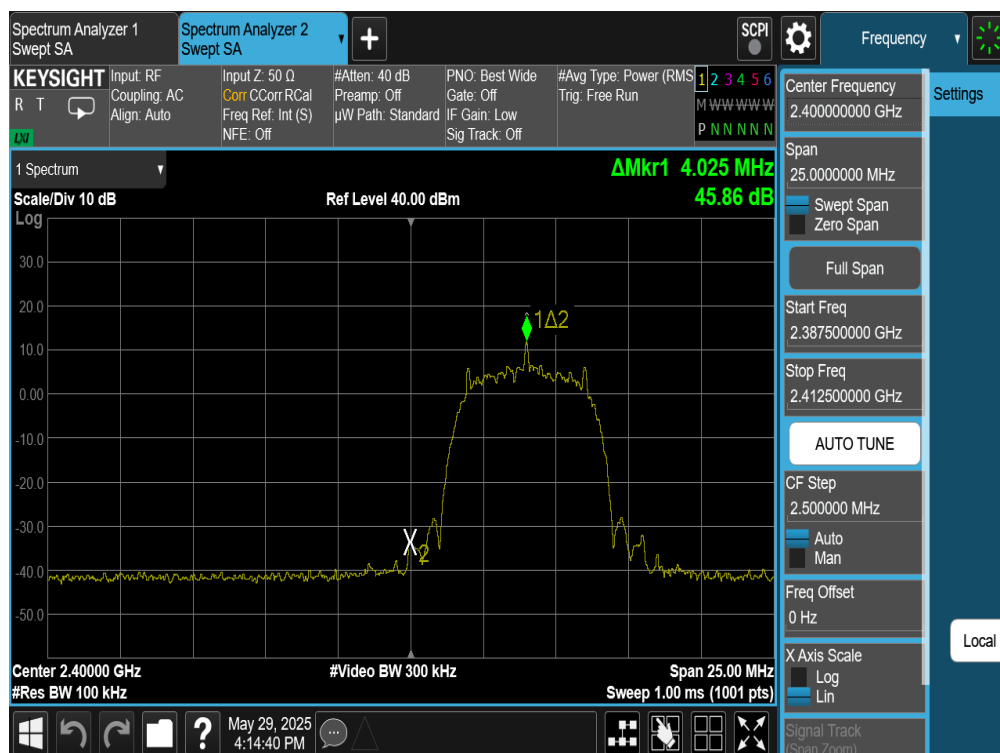


Plot 7-326. Band Edge Plot Antenna WF7 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

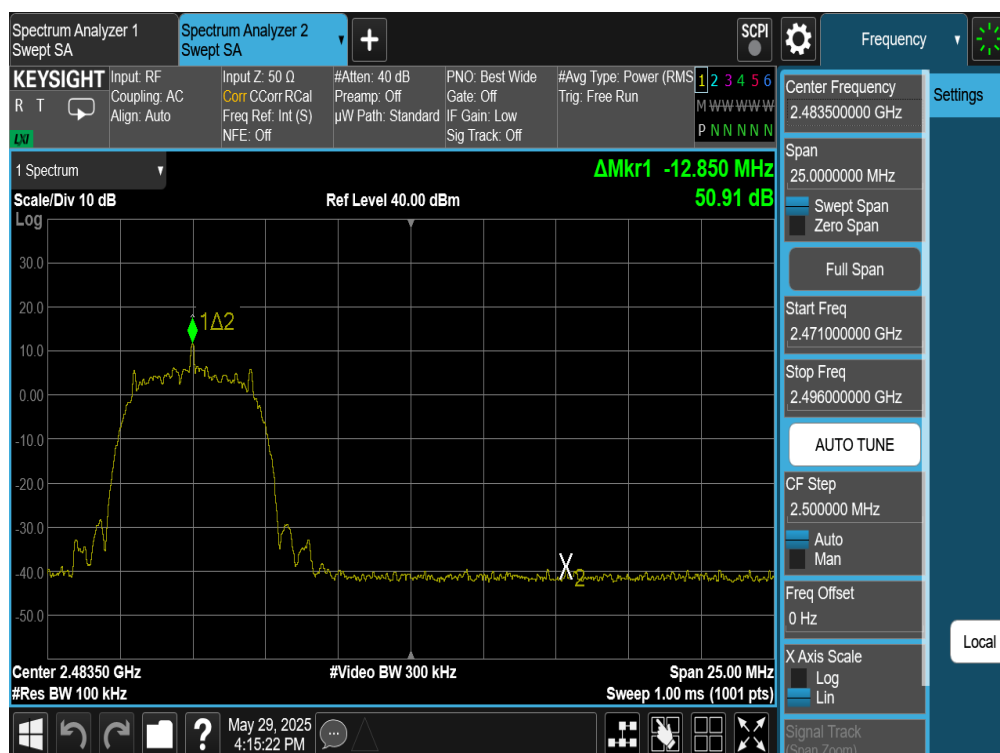
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-327. Band Edge Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 1)

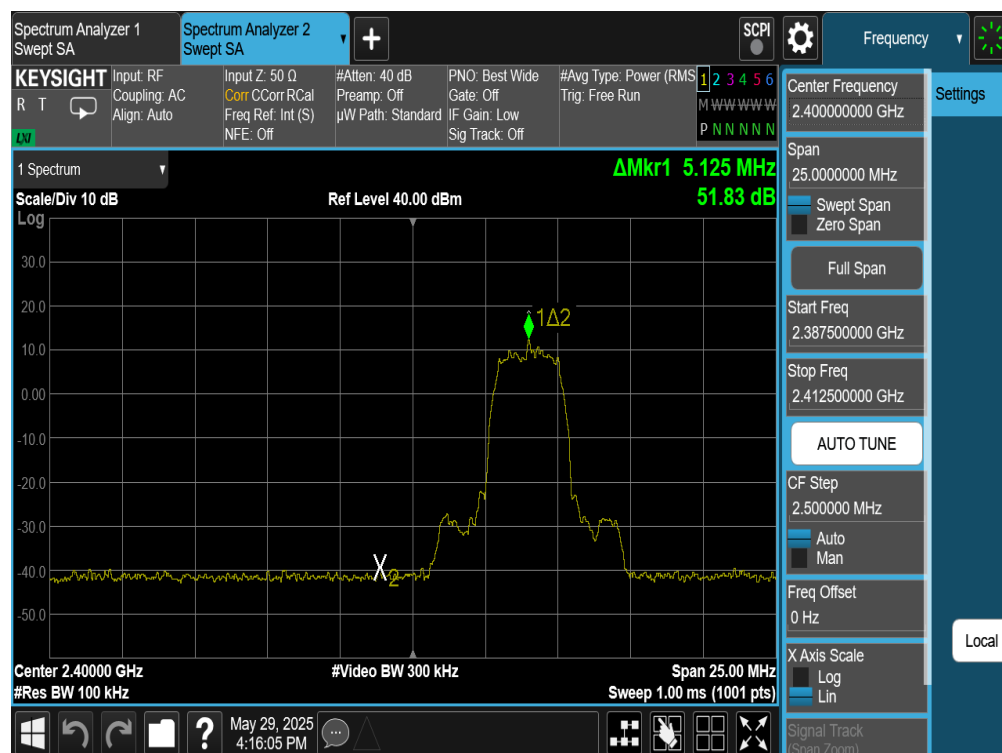


Plot 7-328. Band Edge Plot Antenna WF7 (Bluetooth (HDRPM16), 16Mbps, ePA – Ch. 73)

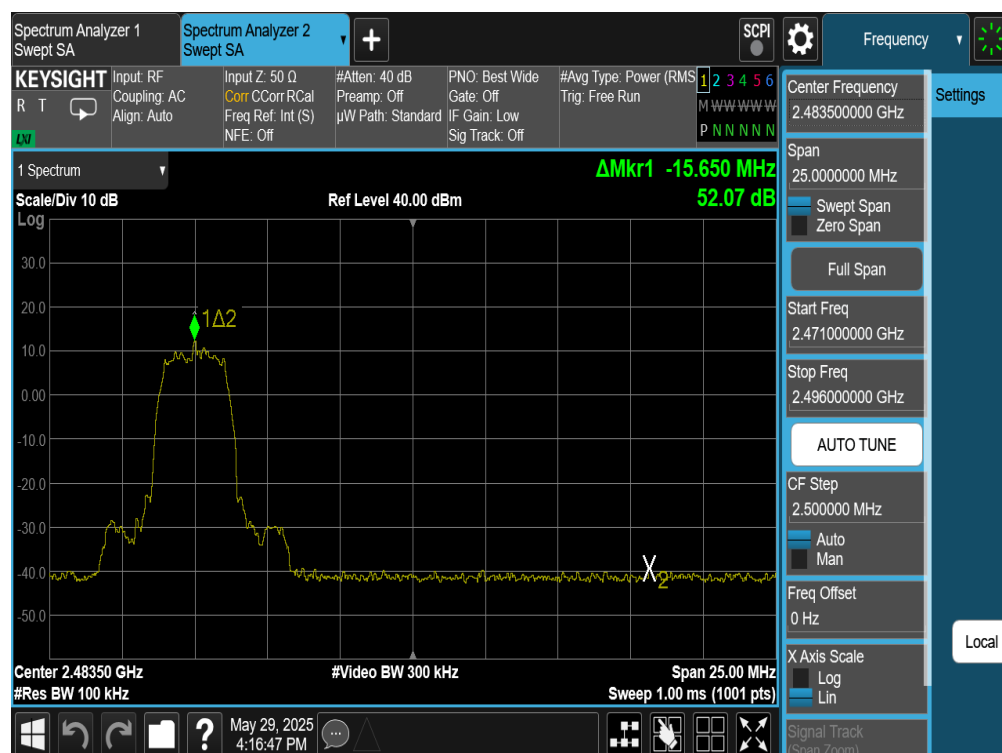
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-329. Band Edge Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)



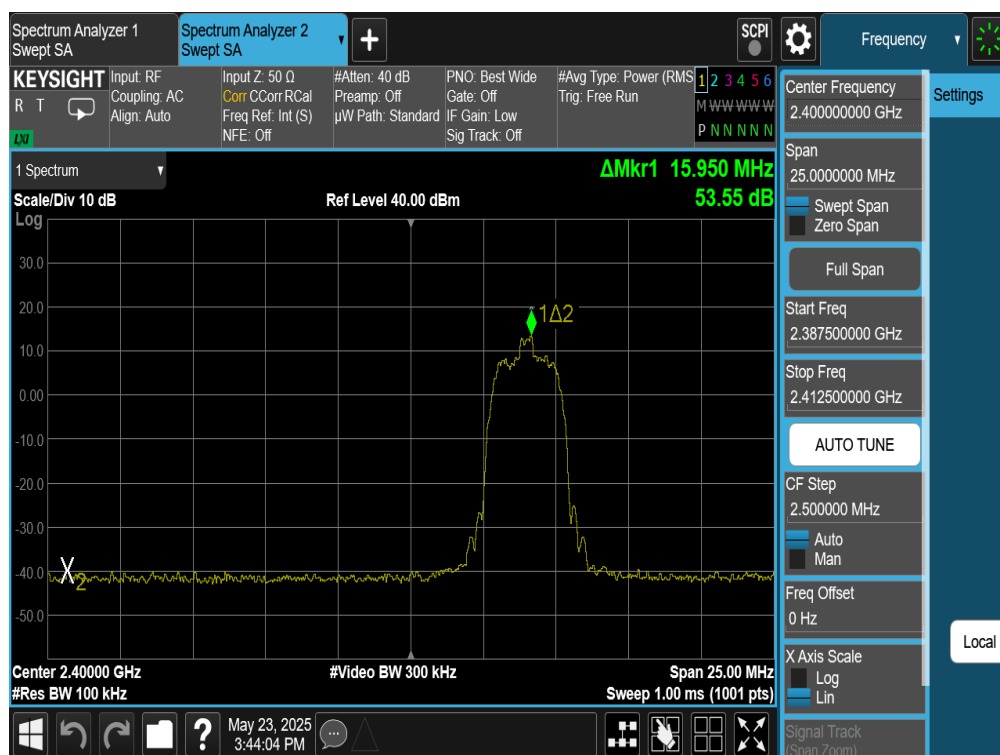
Plot 7-330. Band Edge Plot Antenna WF7 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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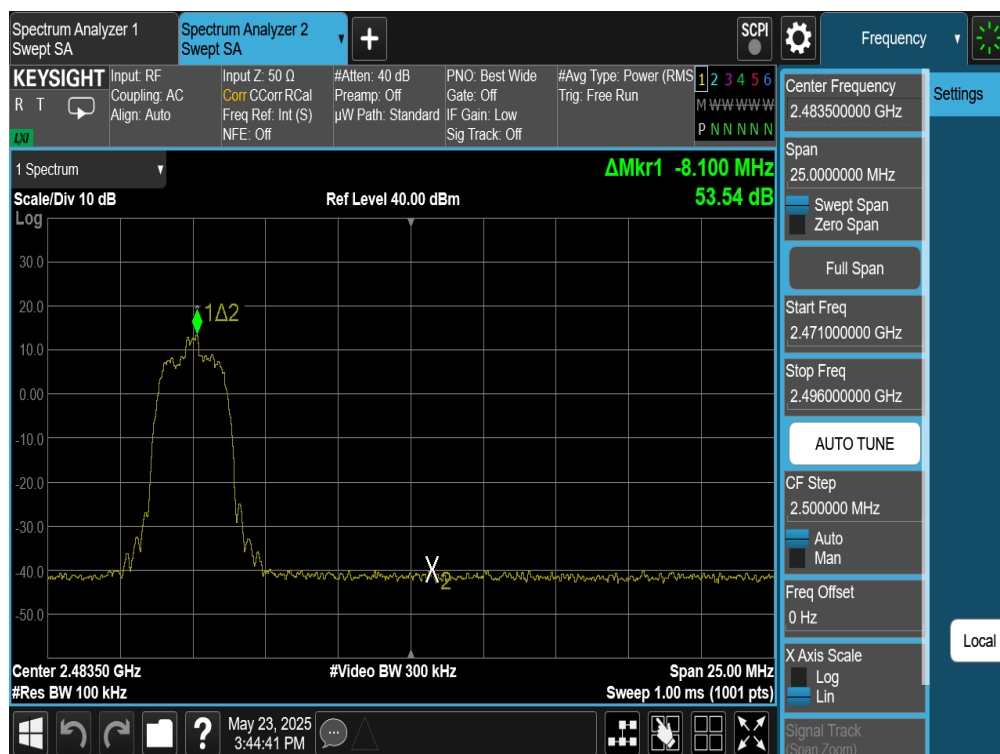
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7.5.3 Antenna WF9



Plot 7-331. Band Edge Plot Antenna WF9 (Bluetooth (HDR4), ePA – Ch. 1)

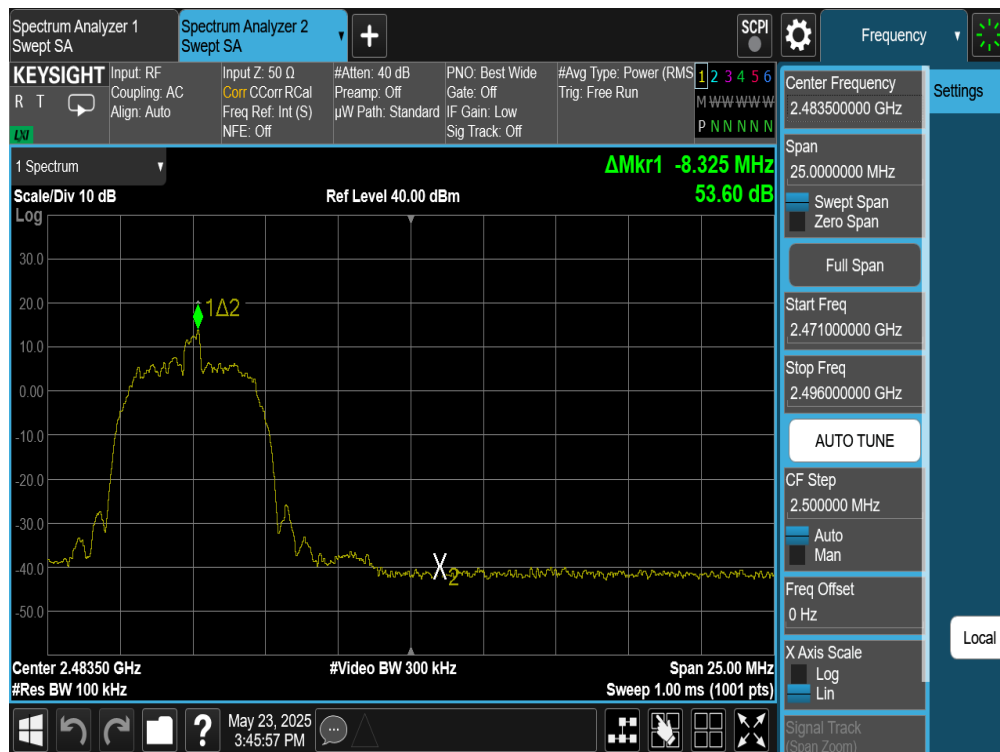
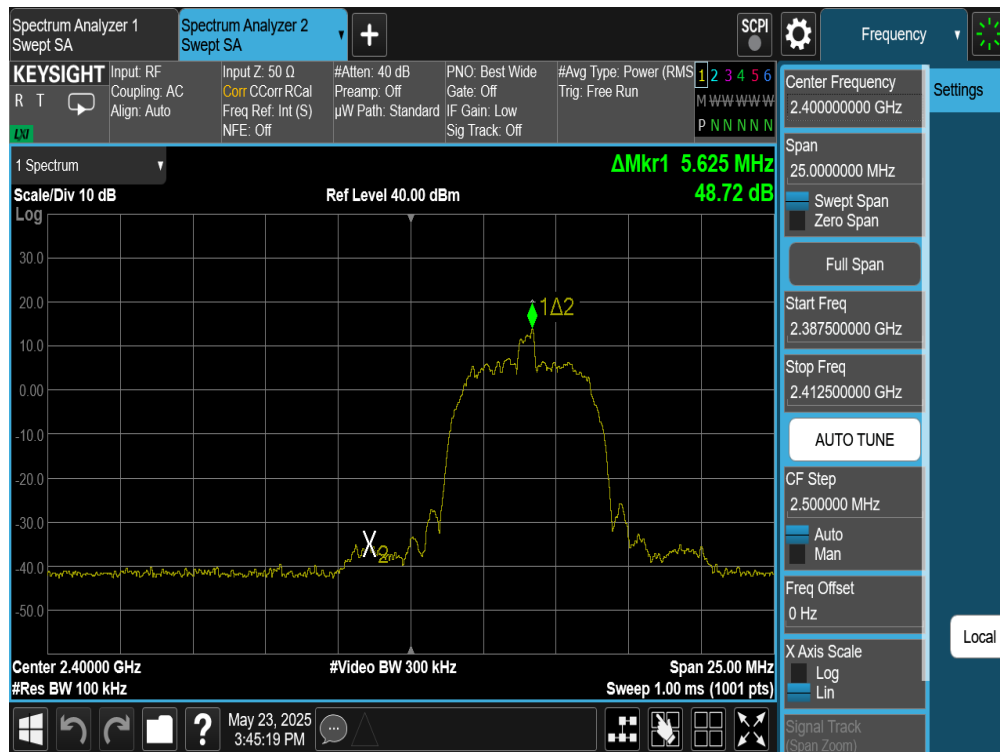


Plot 7-332. Band Edge Plot Antenna WF9 (Bluetooth (HDR4), ePA – Ch. 73)

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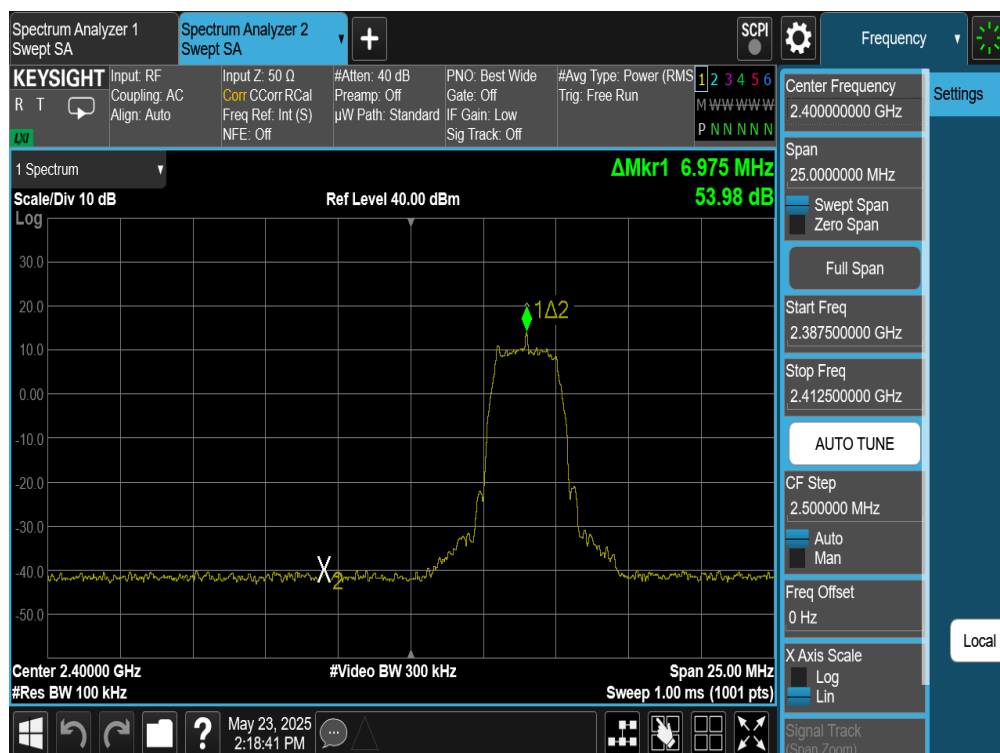
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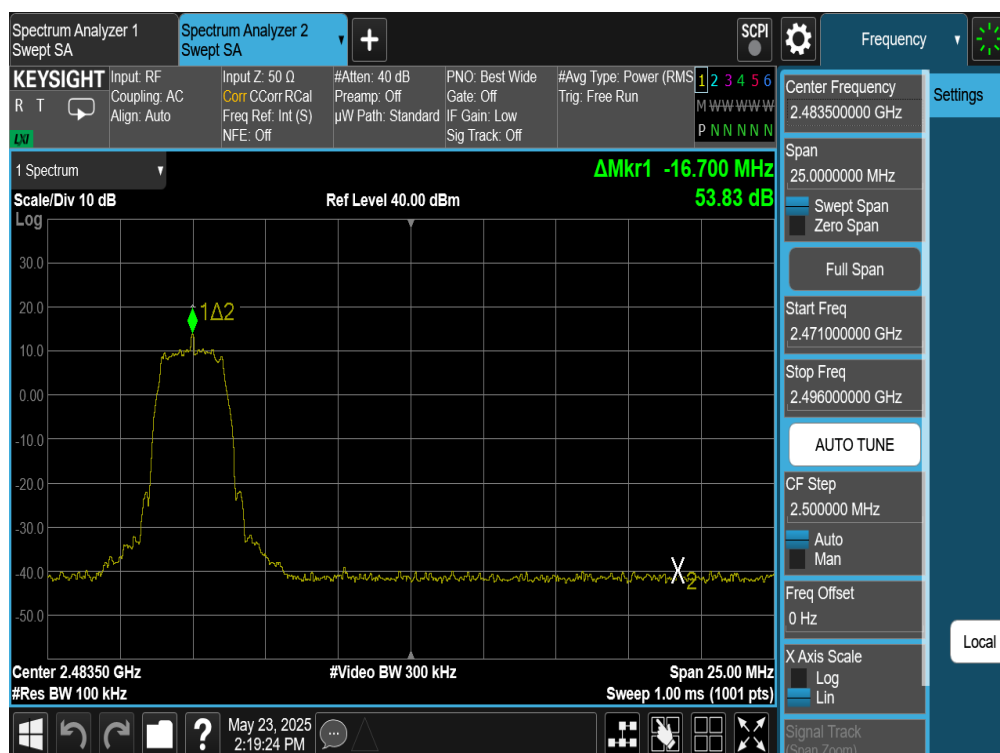
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Plot 7-335. Band Edge Plot Antenna WF9 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 1)

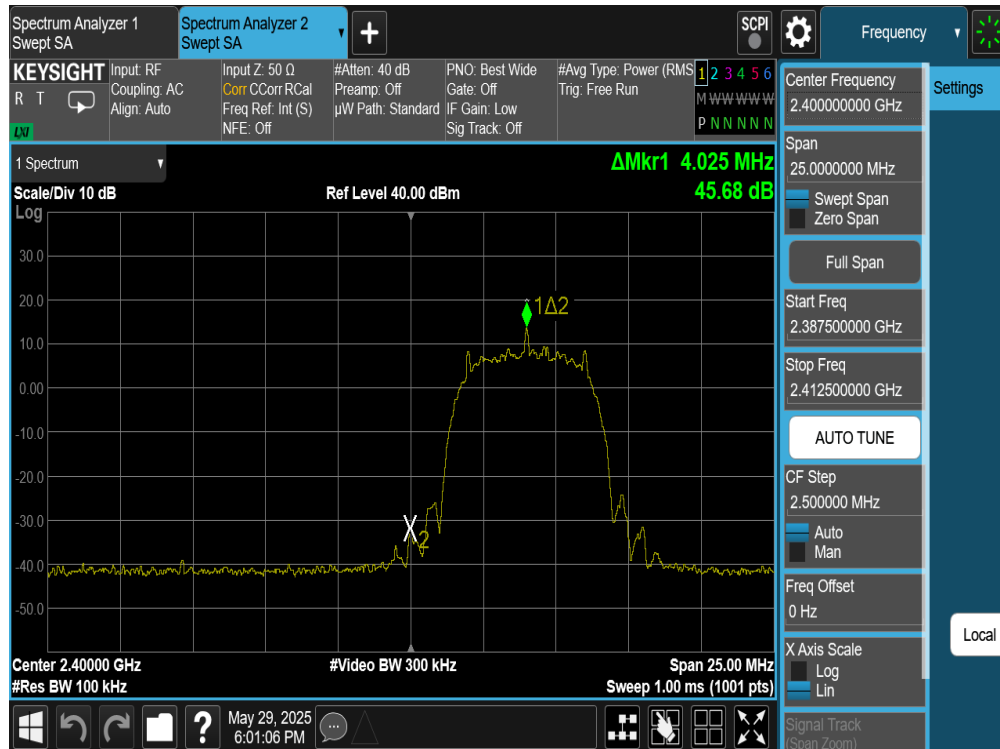


Plot 7-336. Band Edge Plot Antenna WF9 (Bluetooth (HDRPS2), 8Mbps, ePA – Ch. 73)

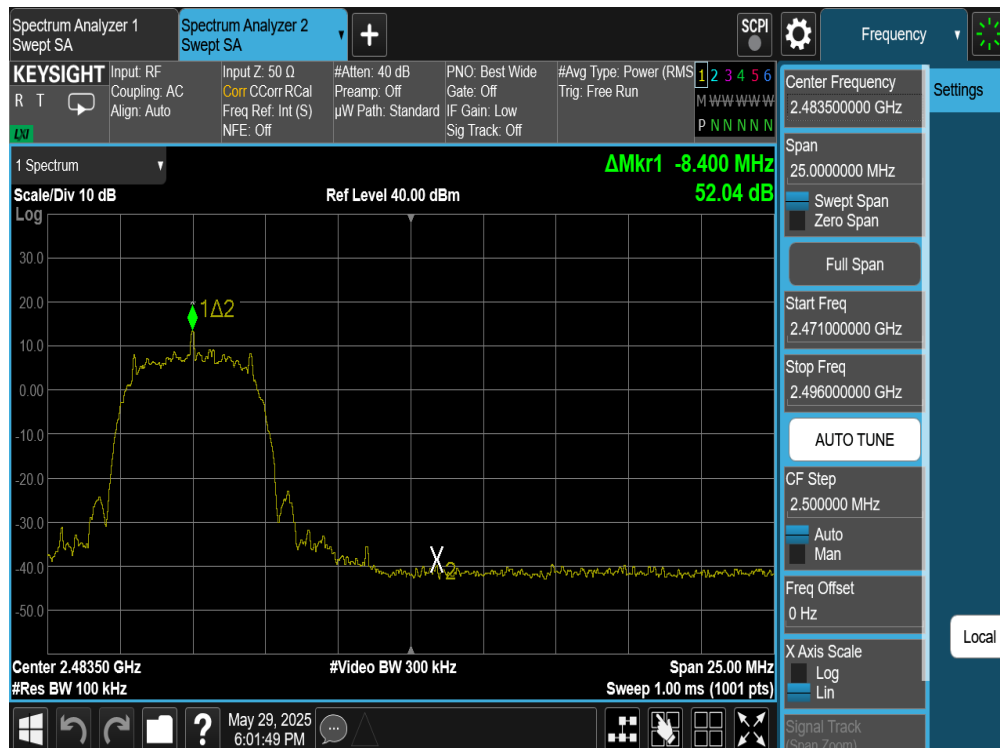
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Plot 7-337. Band Edge Plot Antenna WF9 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 1)

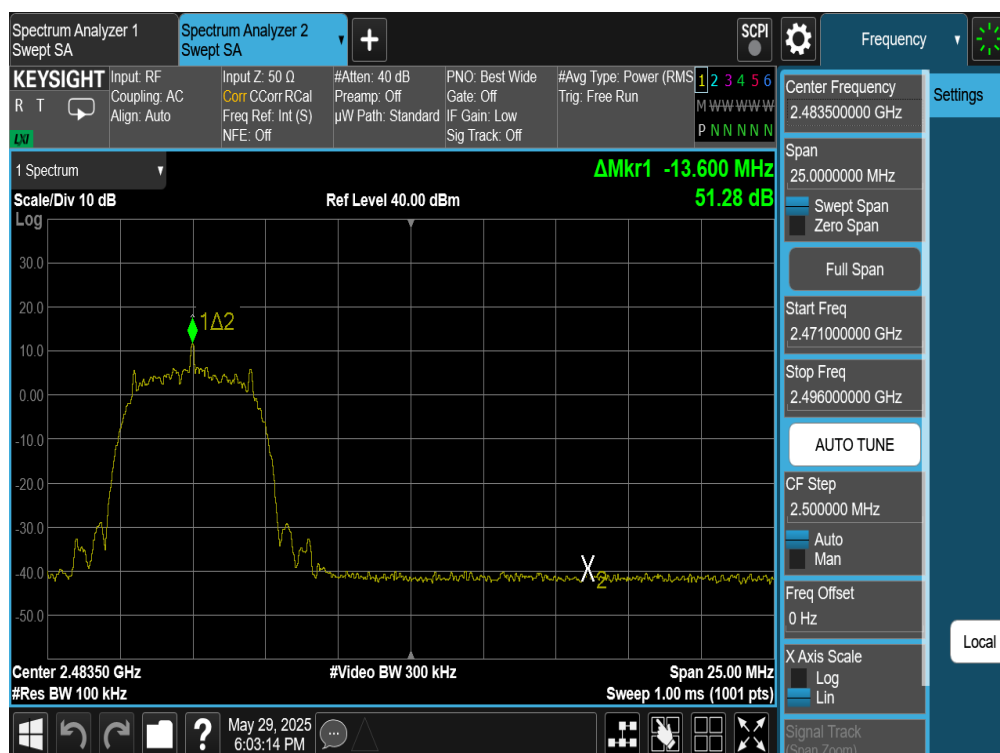
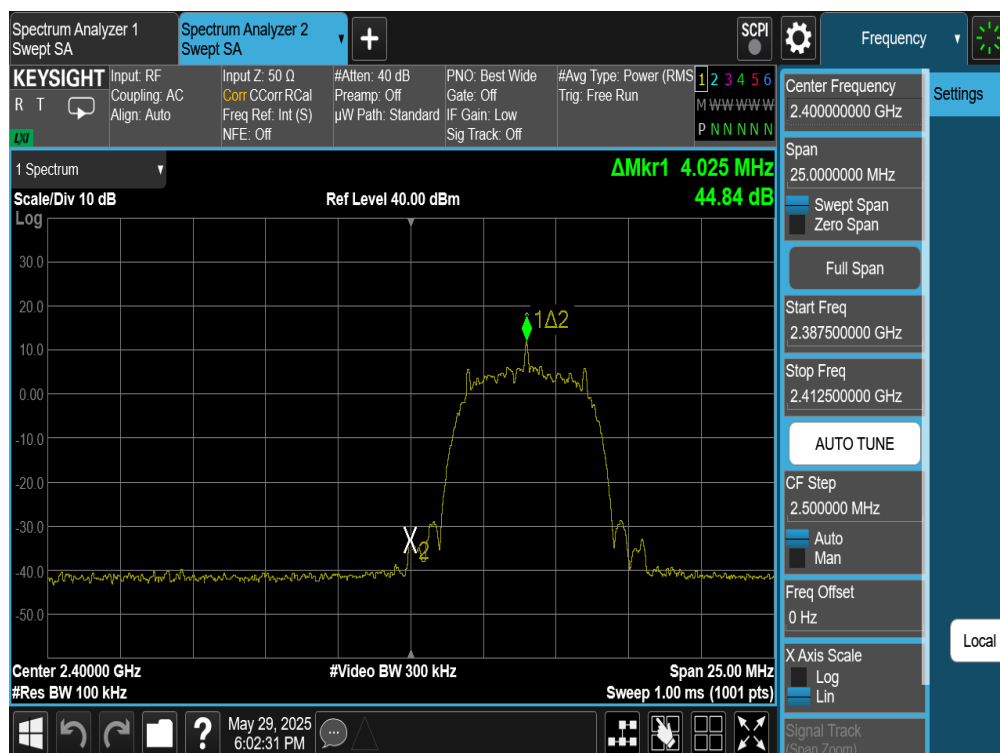


Plot 7-338. Band Edge Plot Antenna WF9 (Bluetooth (XHDRPM6), 6Mbps, ePA – Ch. 73)

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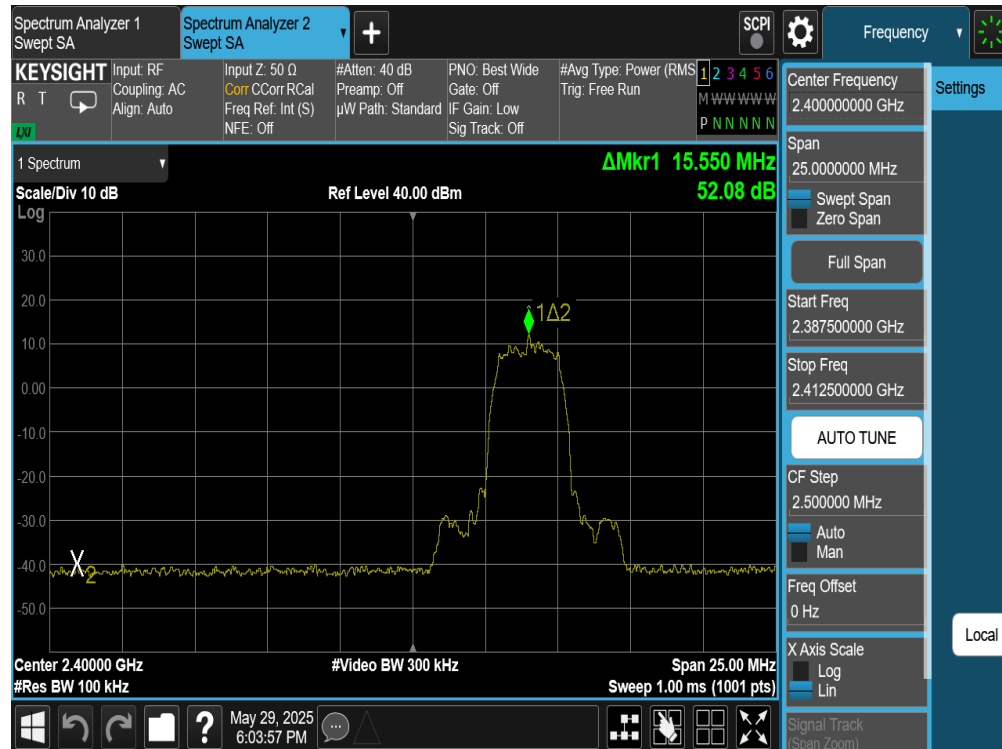
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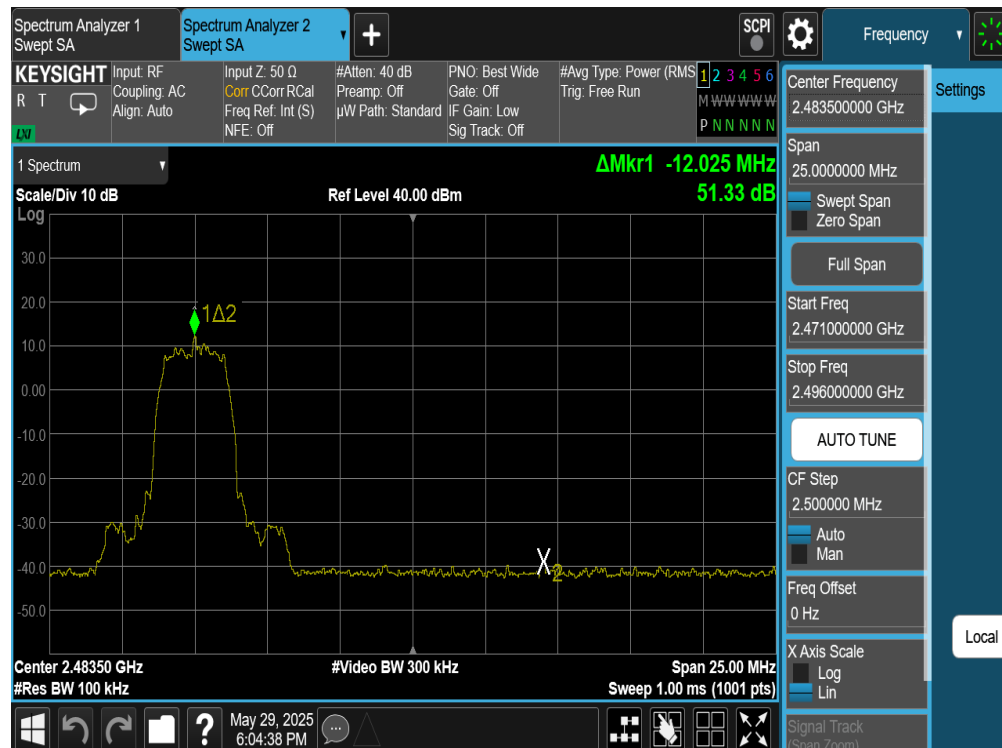
FCC ID: BCGA3360 IC: 579C-A3360		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-341. Band Edge Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 1)



Plot 7-342. Band Edge Plot Antenna WF9 (Bluetooth (HDT2), 2Mbps, ePA – Ch. 73)

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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 Subclause 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

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Test Notes

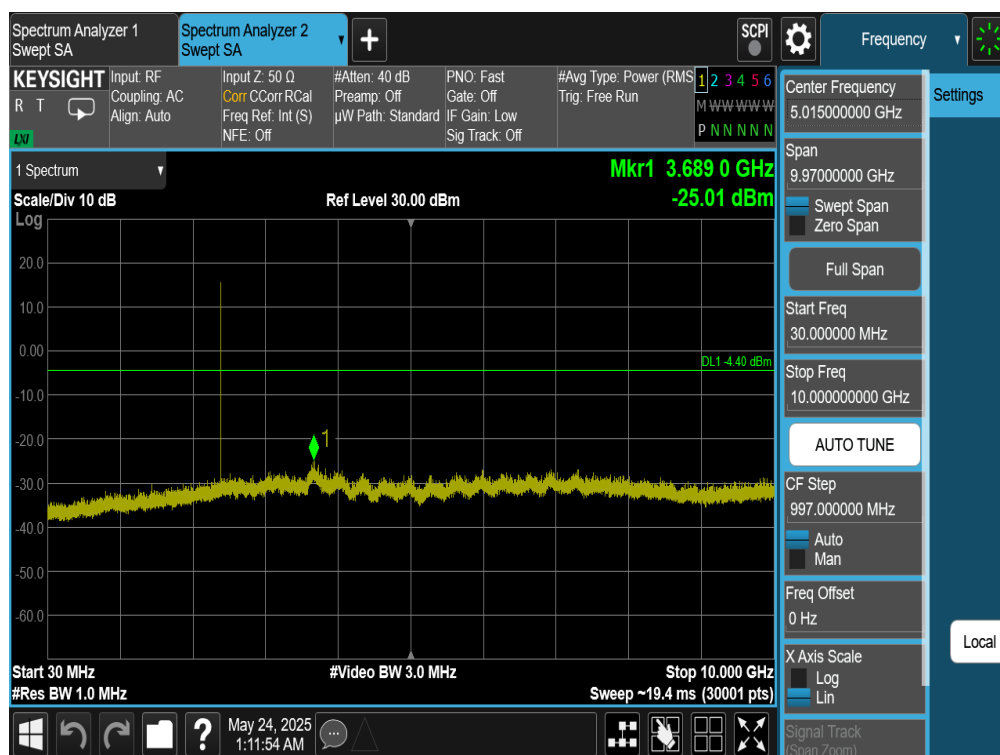
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz 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.

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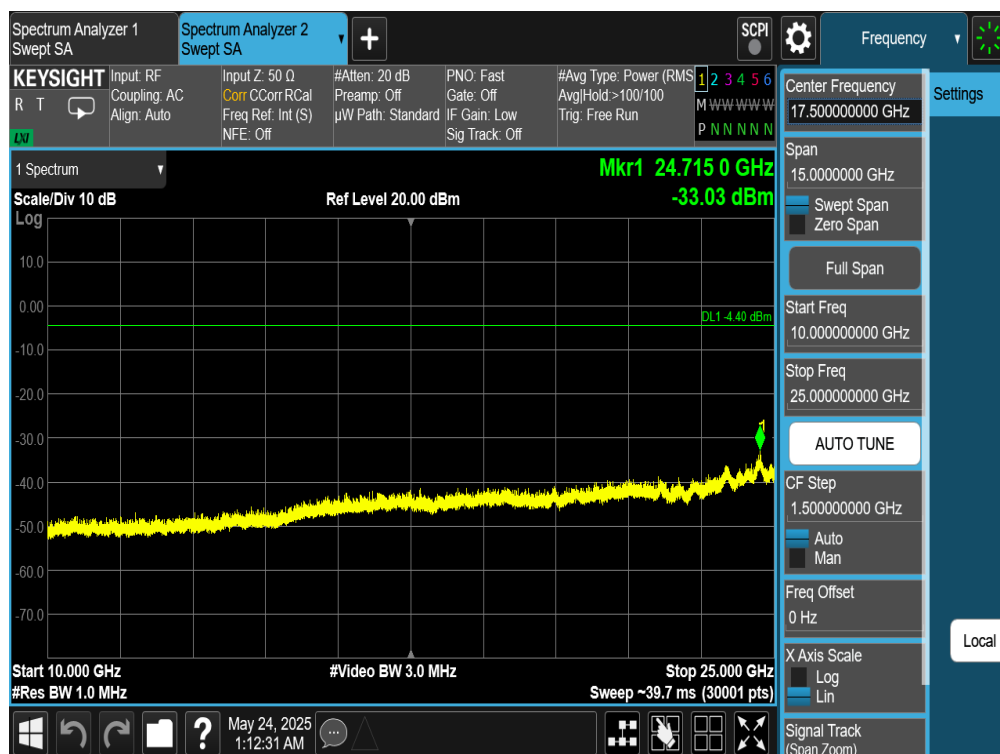
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7.6.1 Antenna WF8



Plot 7-343. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

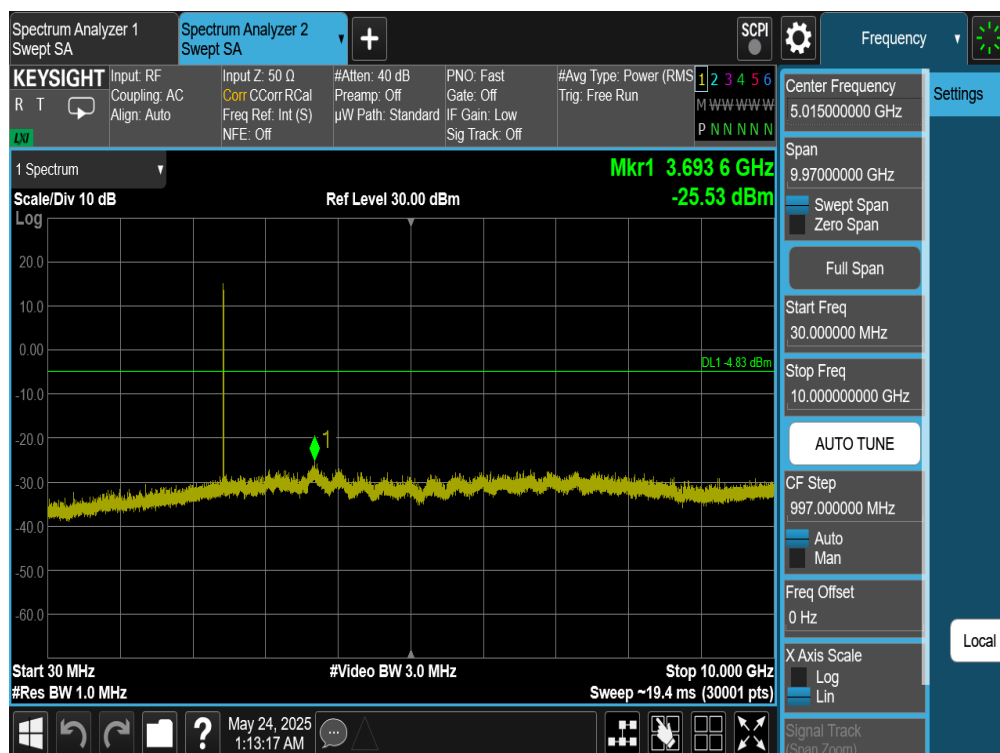


Plot 7-344. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 1)

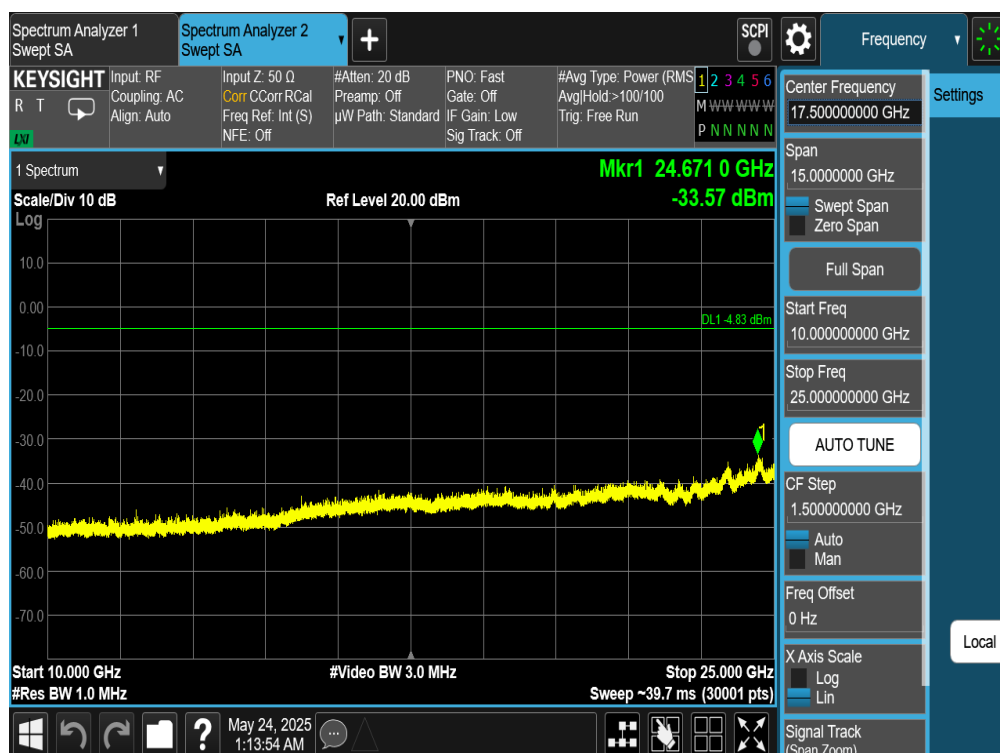
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Plot 7-345. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

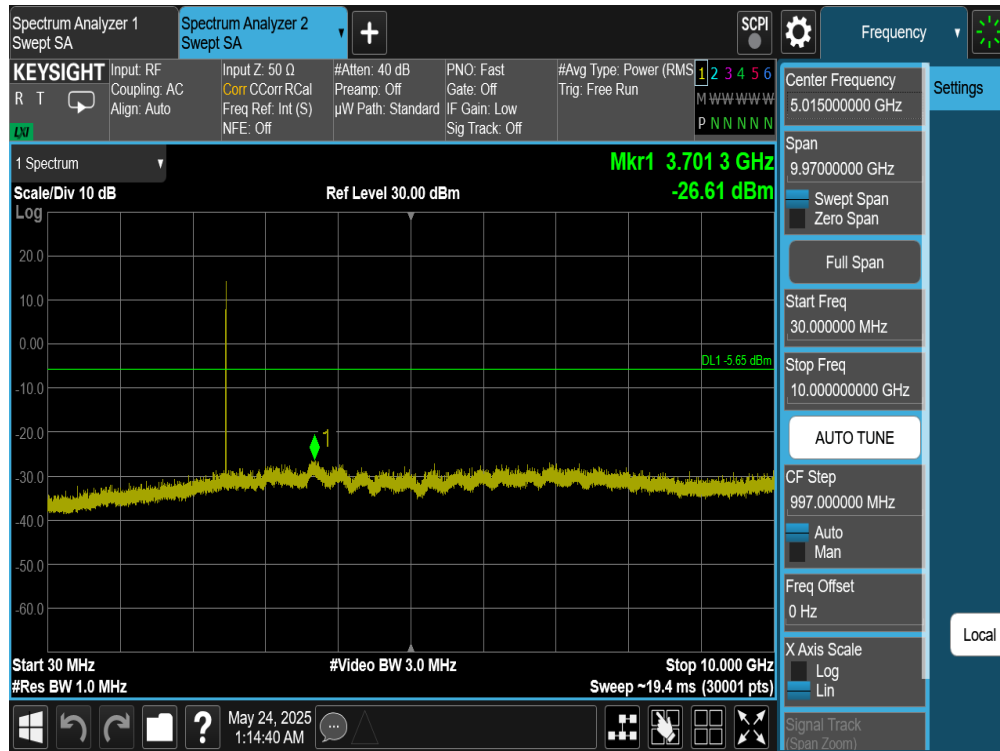


Plot 7-346. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 38)

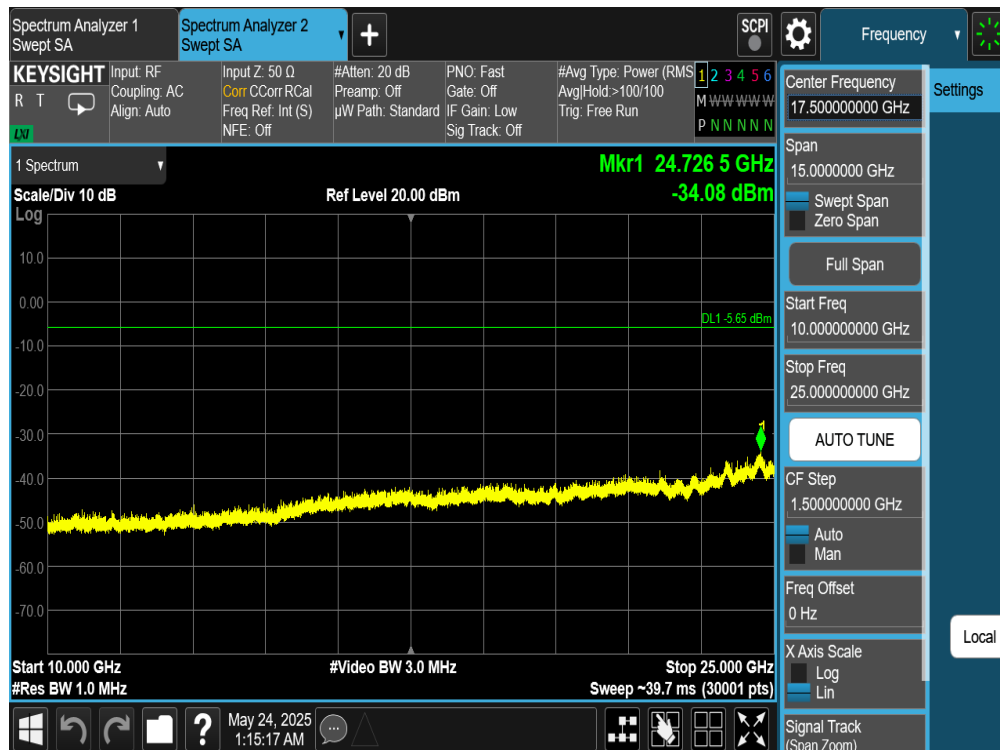
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Plot 7-347. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

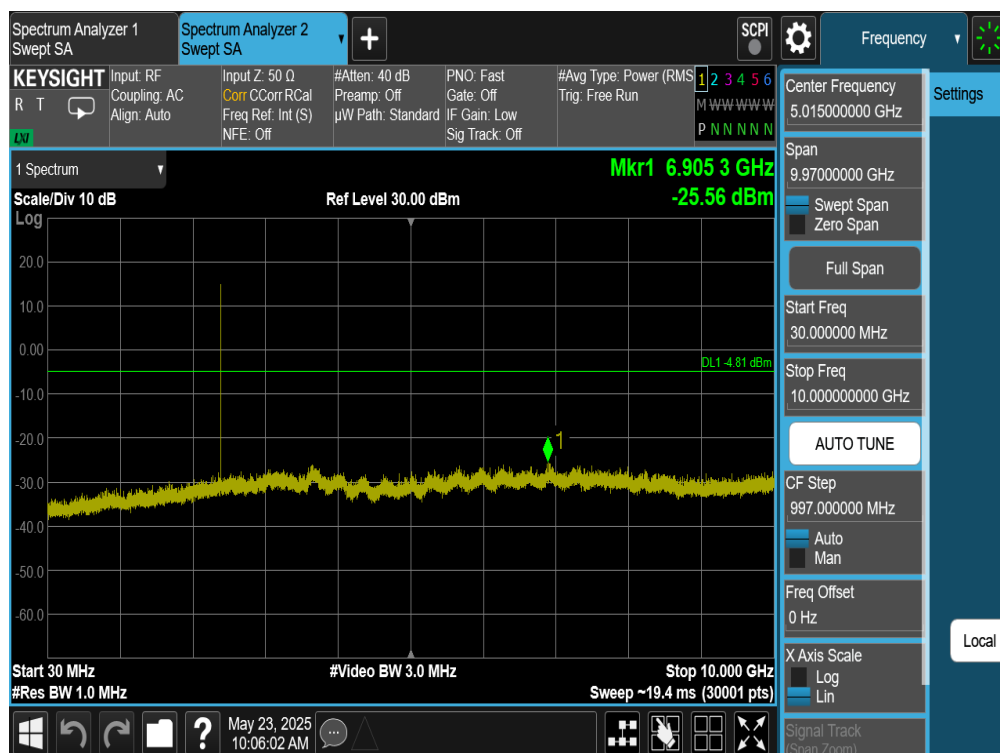


Plot 7-348. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDR4), 4 Mbps, ePA – Ch. 73)

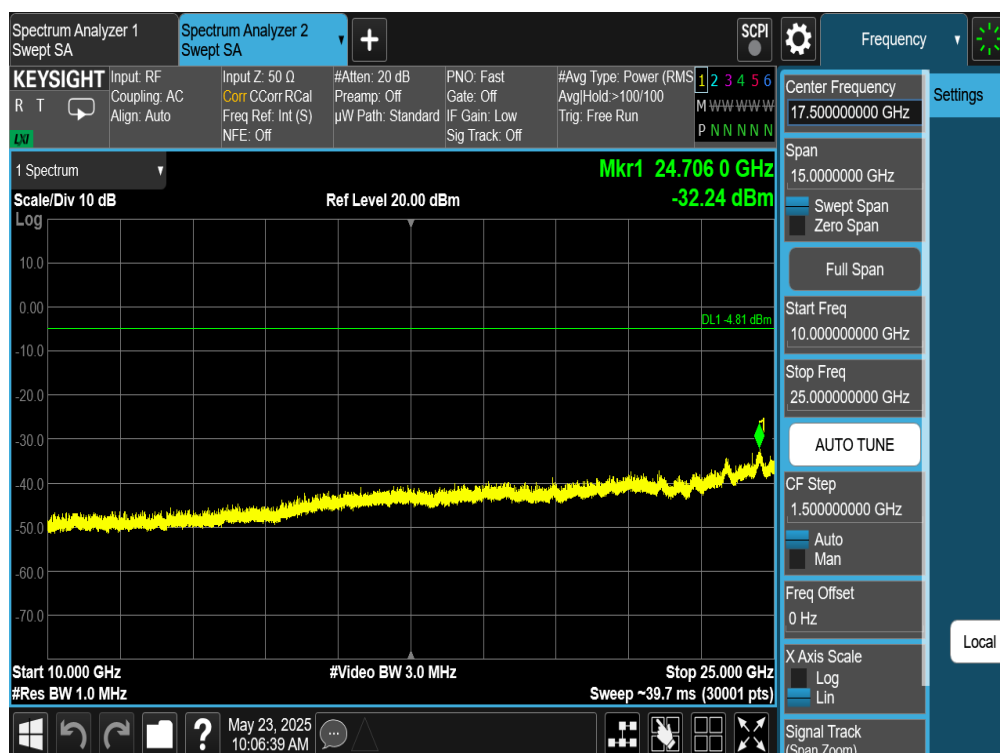
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Plot 7-349. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)



Plot 7-350. Conducted Spurious Plot Antenna WF8 (Bluetooth (HDRPS2), 2Mbps, ePA – Ch. 1)

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