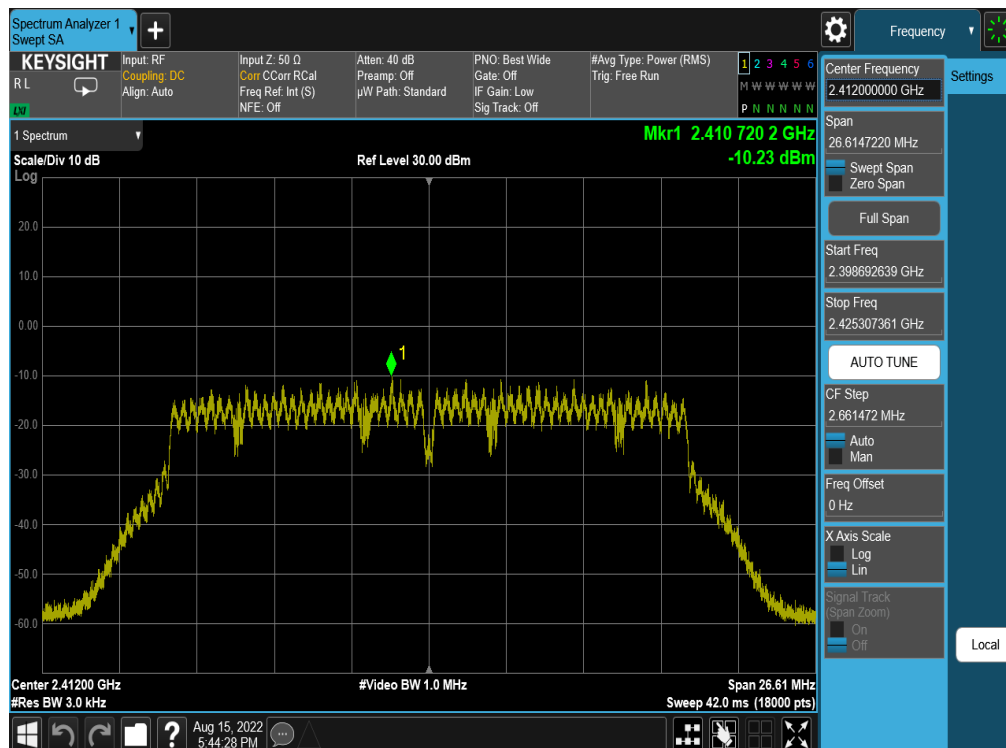
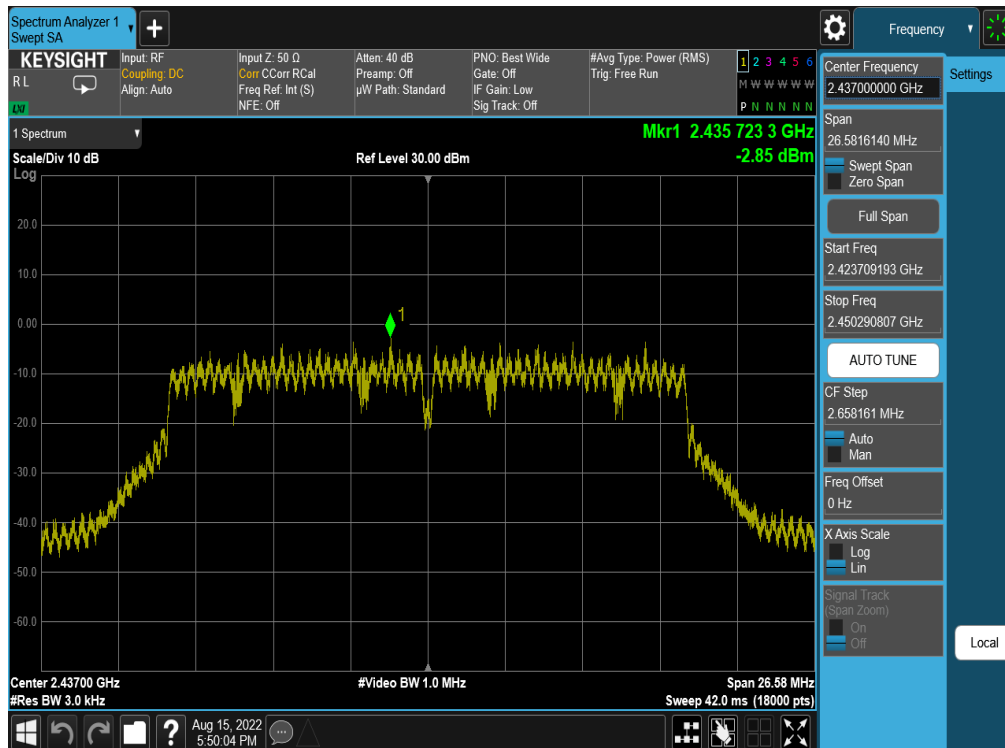
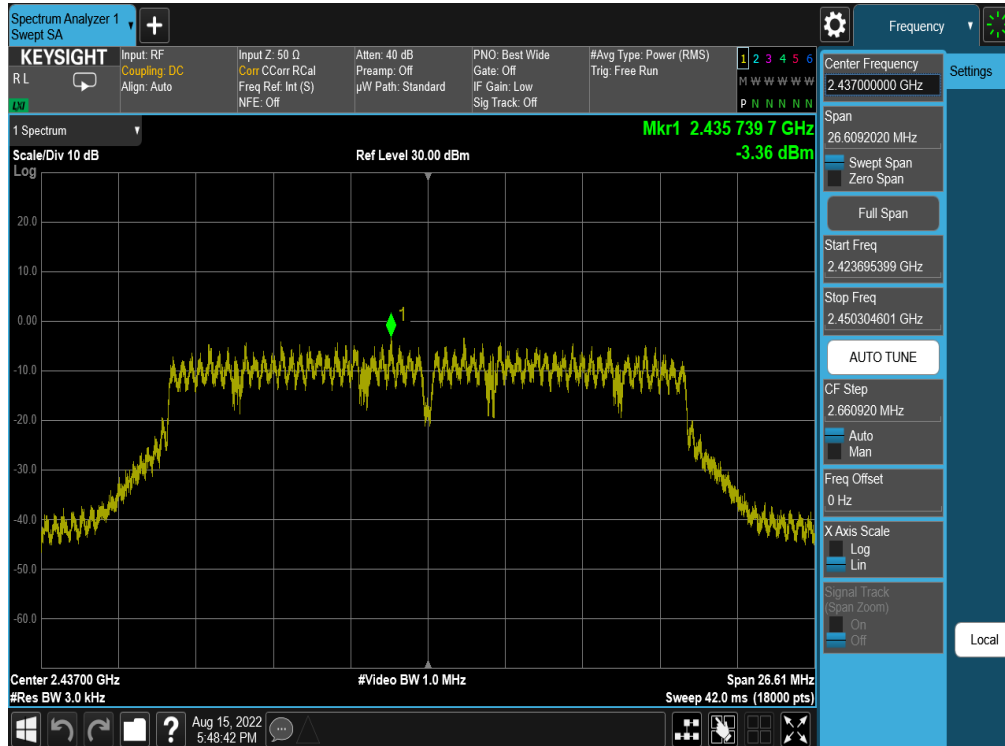


Plot 7-163. Power Spectral Density Plot CDD Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS13

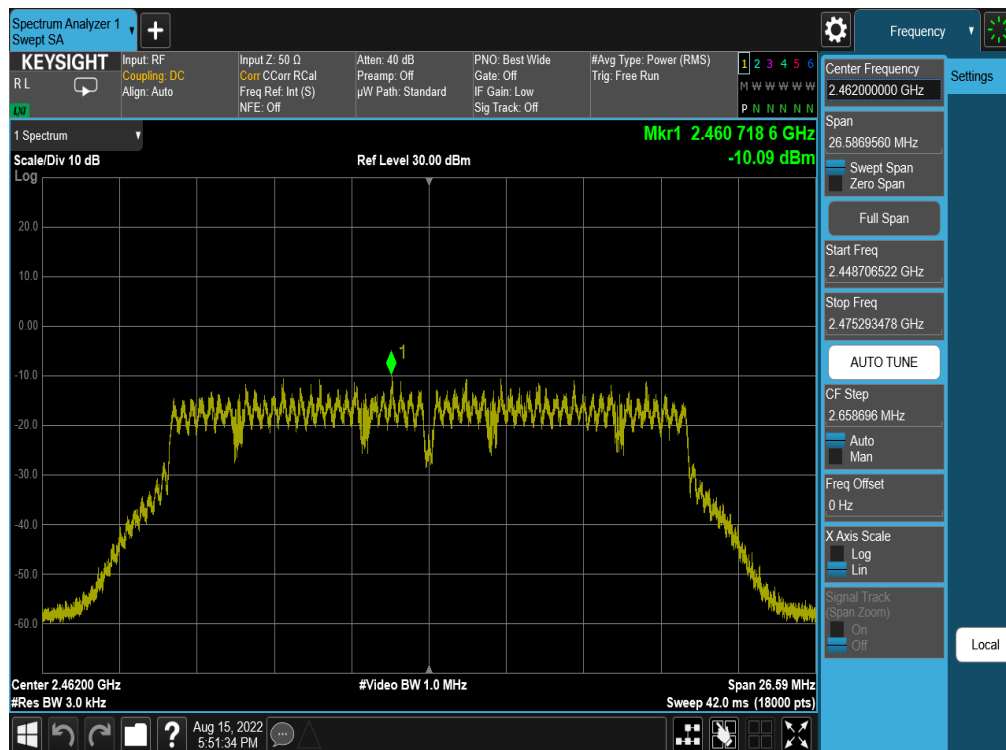
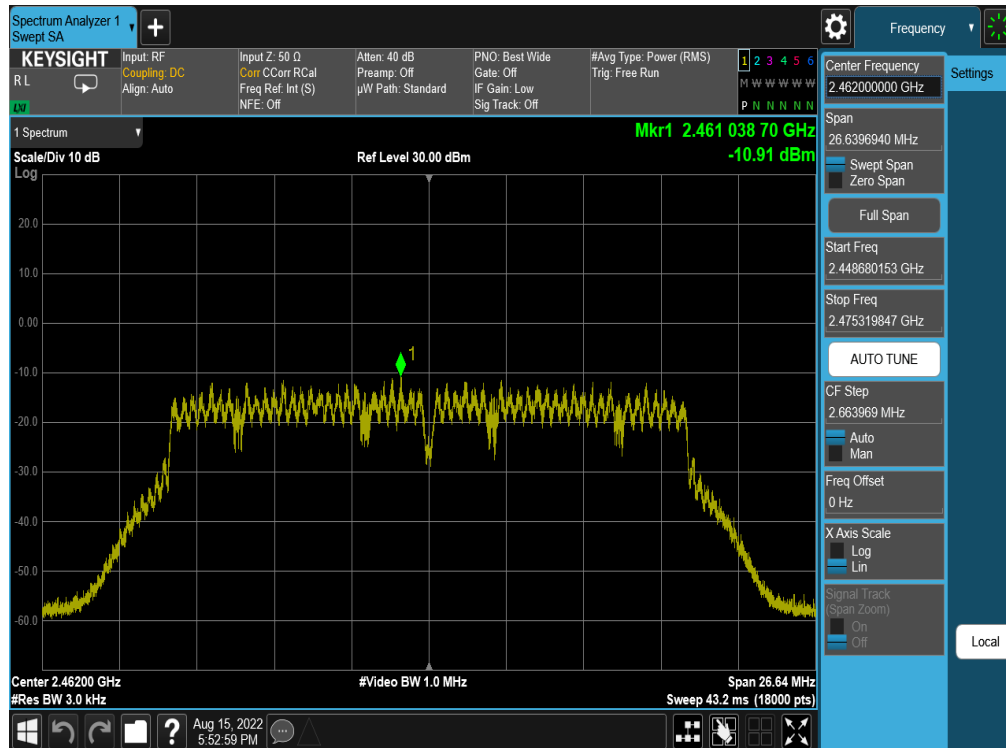


Plot 7-164. Power Spectral Density Plot CDD Antenna WF7b (802.11n (2.4GHz) – Ch. 1) – MCS13

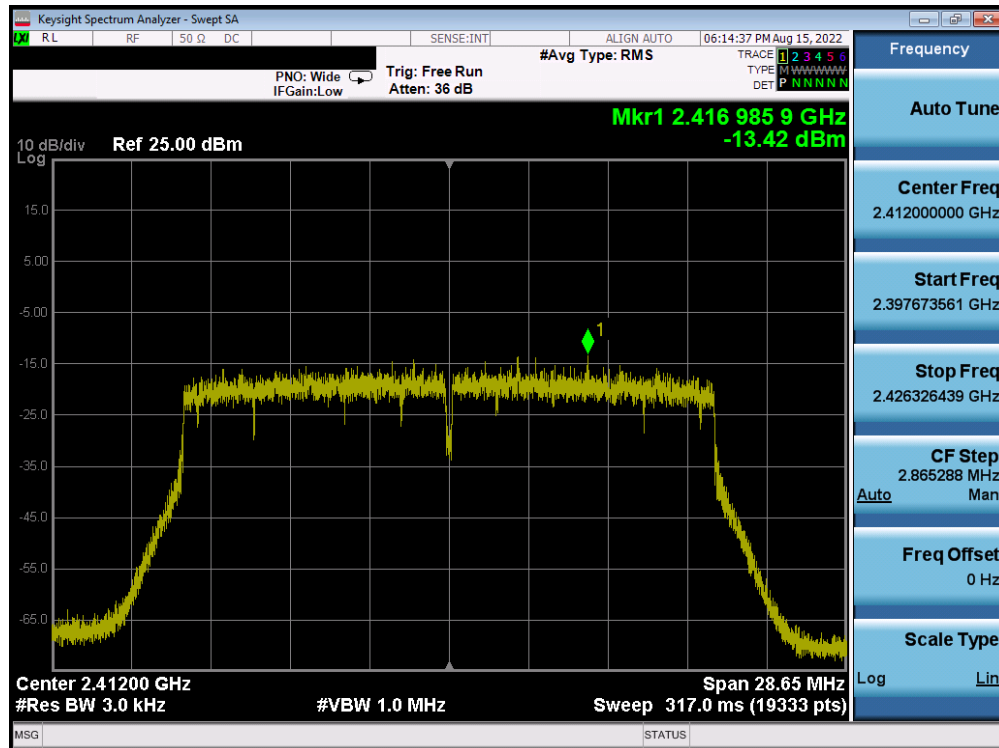
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 128 of 430



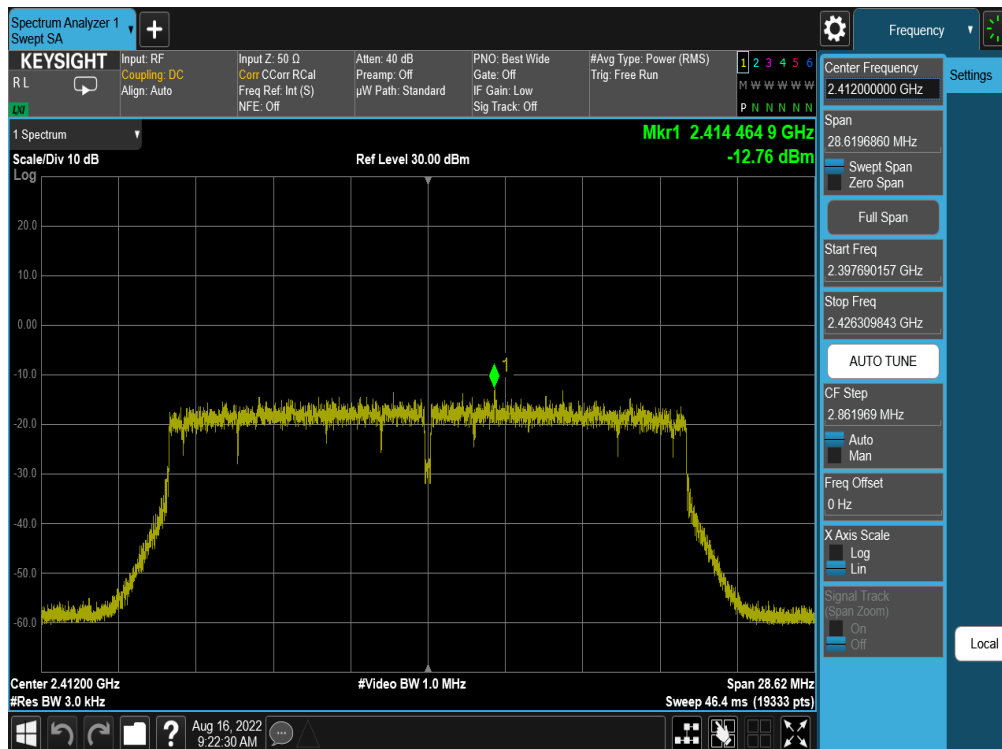
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 129 of 430



FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 130 of 430

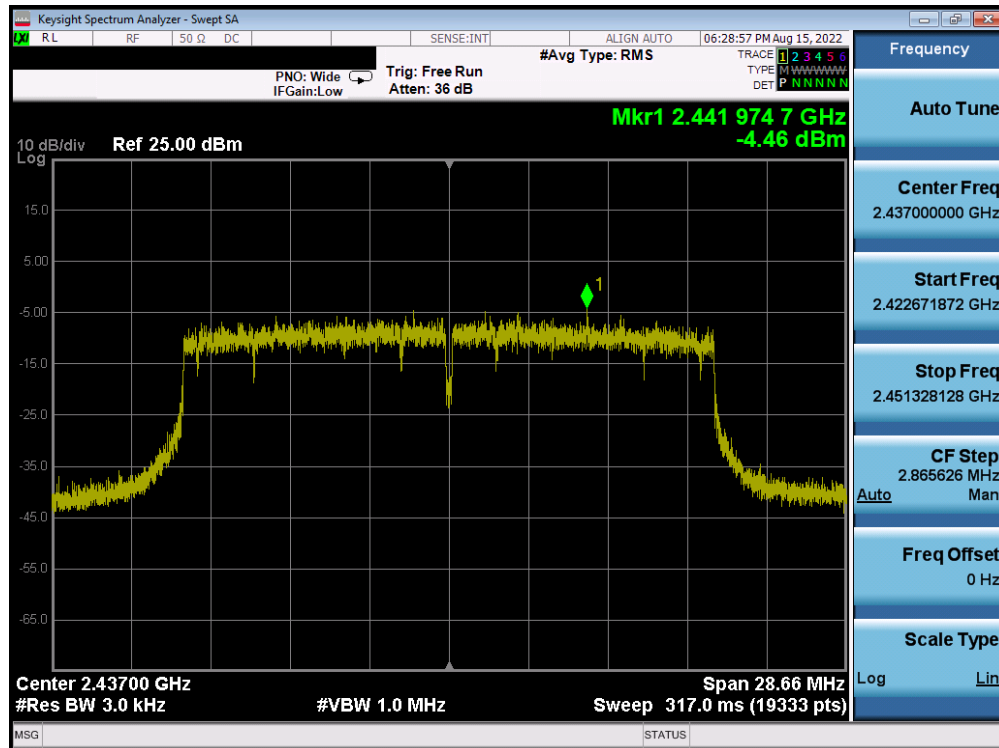


Plot 7-169. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

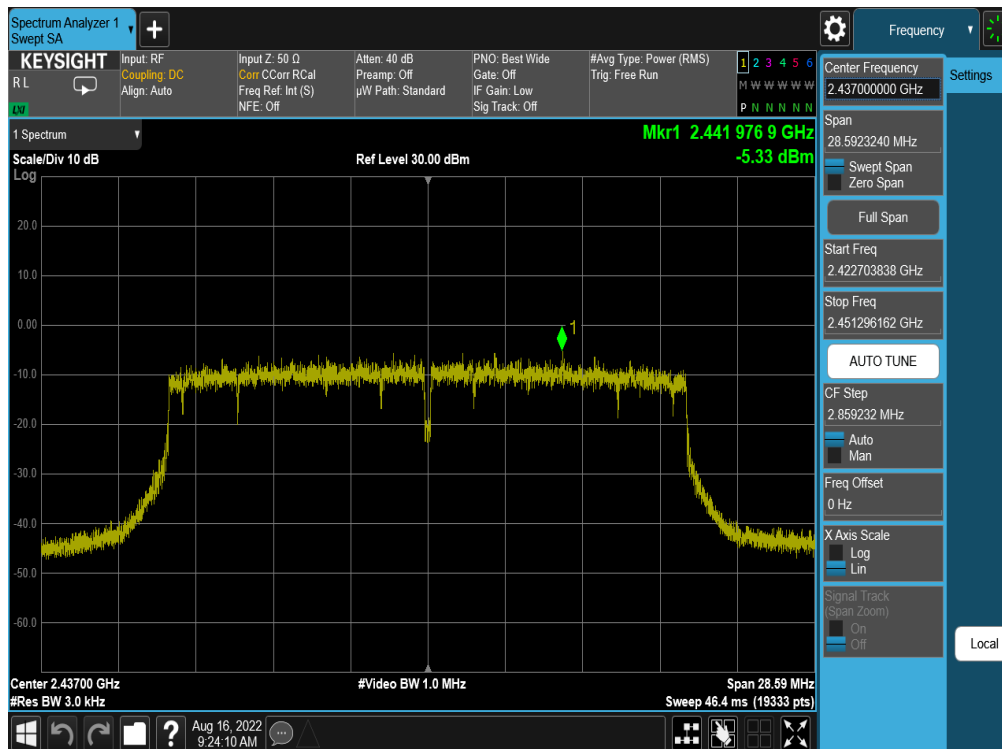


Plot 7-170. Power Spectral Density Plot CDD Antenna WF7b (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 131 of 430

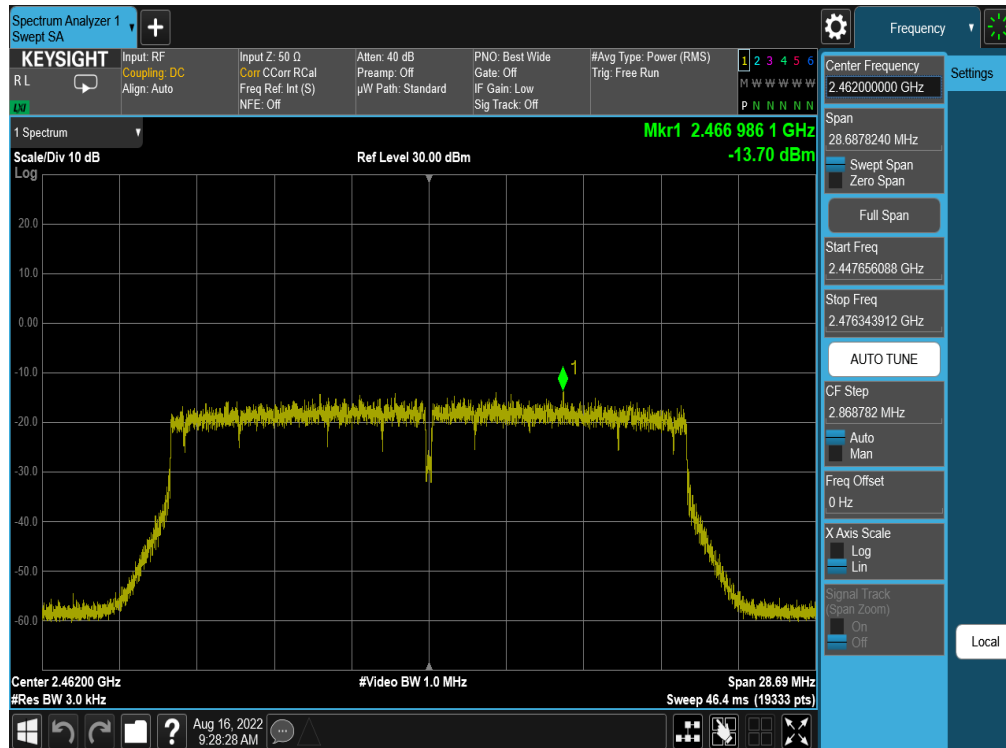


Plot 7-171. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5

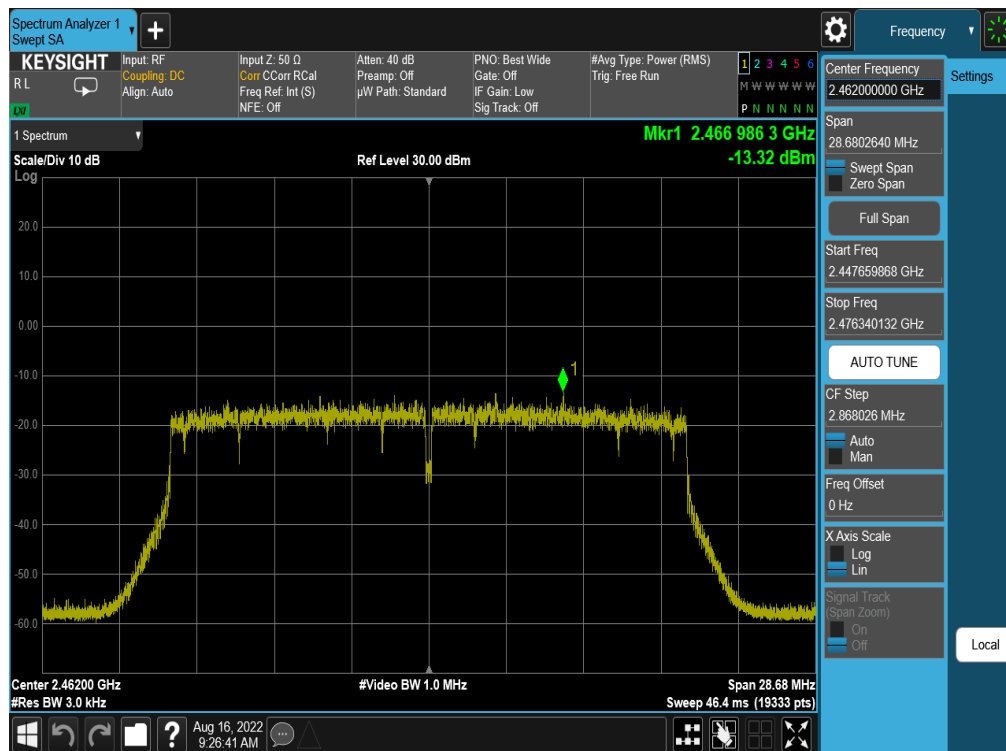


Plot 7-172. Power Spectral Density Plot CDD Antenna WF7b (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 132 of 430



Plot 7-173. Power Spectral Density Plot CDD Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5



Plot 7-174. Power Spectral Density Plot CDD Antenna WF7b (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 133 of 430

V 10.5 12/15/2021

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 D01 v02r01 Section E2), the power spectral density at Antenna WF8 and Antenna WF7b 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 CDD Calculation:

At 2412MHz the average conducted power spectral density was measured to be -10.65 dBm for Antenna WF8 and -10.32 dBm for Antenna WF7b.

$$\text{Antenna WF8} + \text{Antenna WF7b} = \text{CDD}$$

$$(-10.65 \text{ dBm} + -10.32 \text{ dBm}) = (0.086 \text{ mW} + 0.093 \text{ mW}) = 0.179 \text{ mW} = -7.47 \text{ dBm}$$

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 134 of 430

V 10.5 12/15/2021

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7.5 Conducted Authorized Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 12, 24, 36 Mbps for “g” mode, 19.5/21.7, 39/43.3, 52/57.8 for “n” mode, and 24/25.8, 49/51.6, 65/68.8 for “ax-SU” mode as 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 per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – 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 = 1MHz
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 7-4. Test Instrument & Measurement Setup

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 135 of 430

V 10.5 12/15/2021

Test Notes

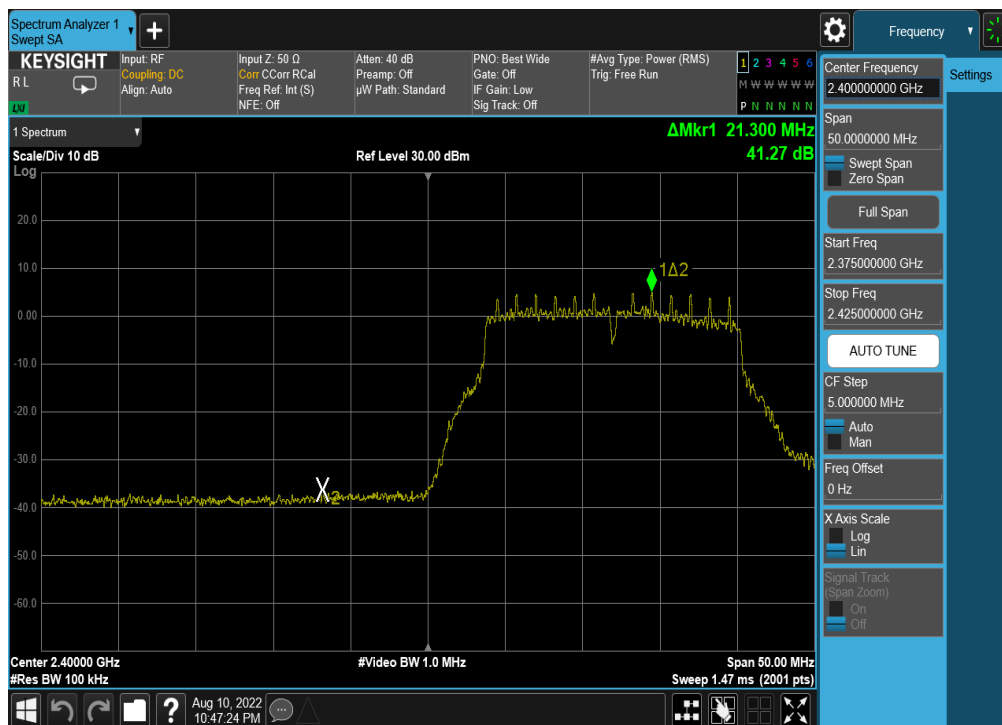
1. All antenna configurations were investigated and only the worst case is reported.
2. The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group is reported.

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 136 of 430

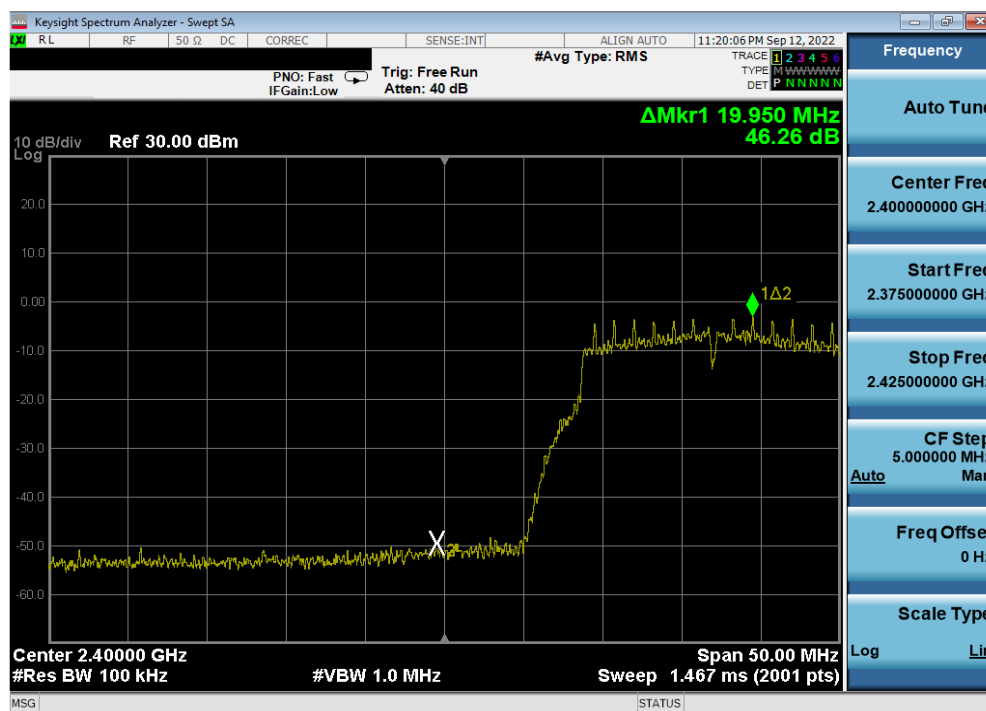
V 10.5 12/15/2021

Antenna WF8 Conducted Emissions at the Band Edge

Low Data Rate



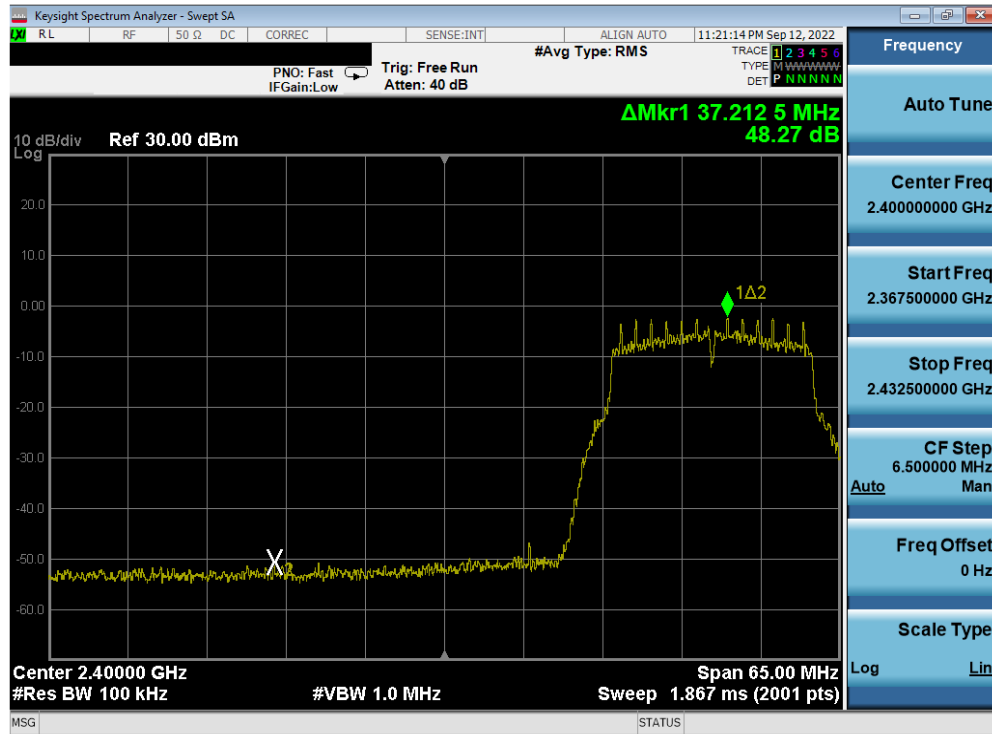
Plot 7-175. Band Edge Plot Antenna WF8 (802.11g– Ch. 1) – 12Mbps



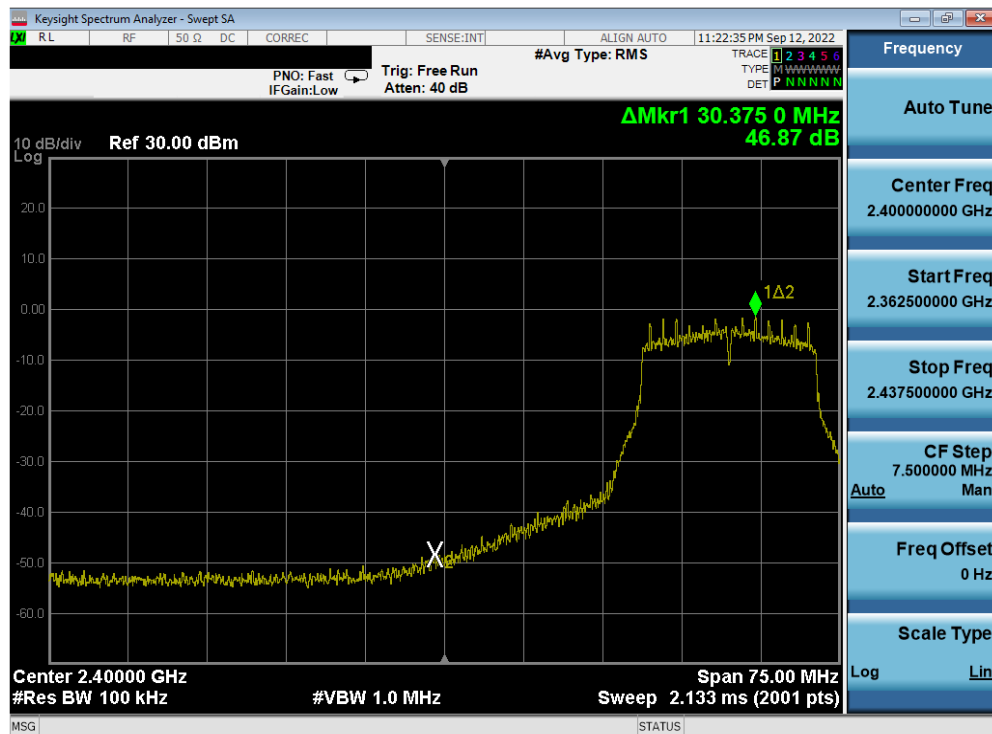
Plot 7-176. Band Edge Plot Antenna WF8 (802.11g– Ch. 2) – 12Mbps

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 137 of 430

V 10.5 12/15/2021



Plot 7-177. Band Edge Plot Antenna WF8 (802.11g- Ch. 3) – 12Mbps

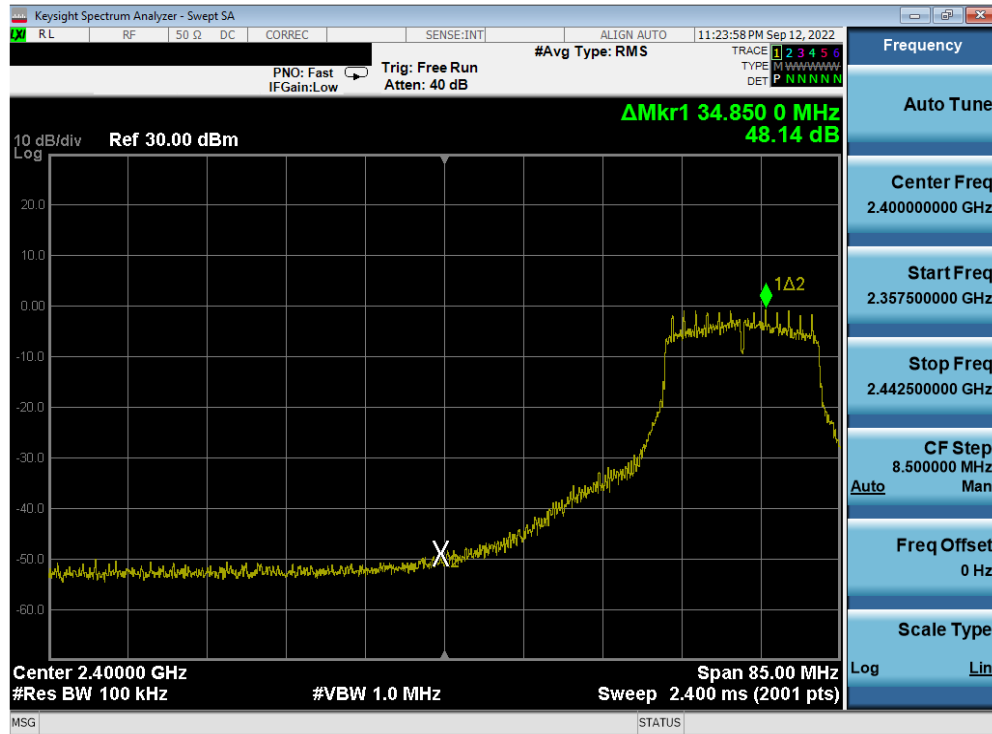


Plot 7-178. Band Edge Plot Antenna WF8 (802.11g- Ch. 4) – 12Mbps

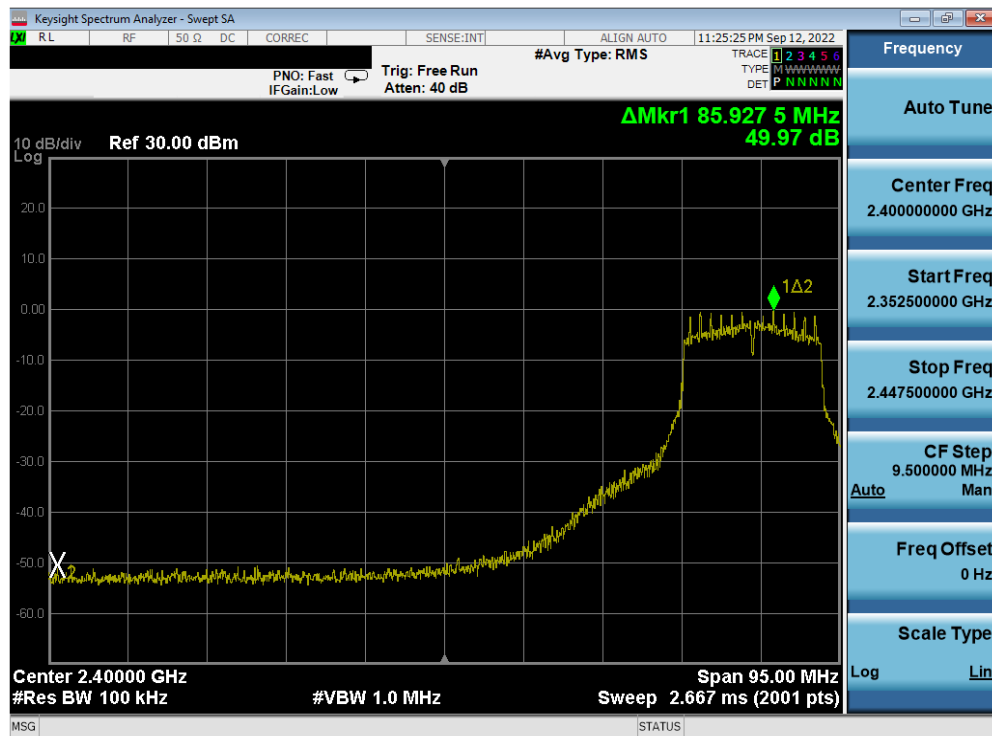
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 138 of 430

V 10.5 12/15/2021

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Plot 7-179. Band Edge Plot Antenna WF8 (802.11g- Ch. 5) – 12Mbps

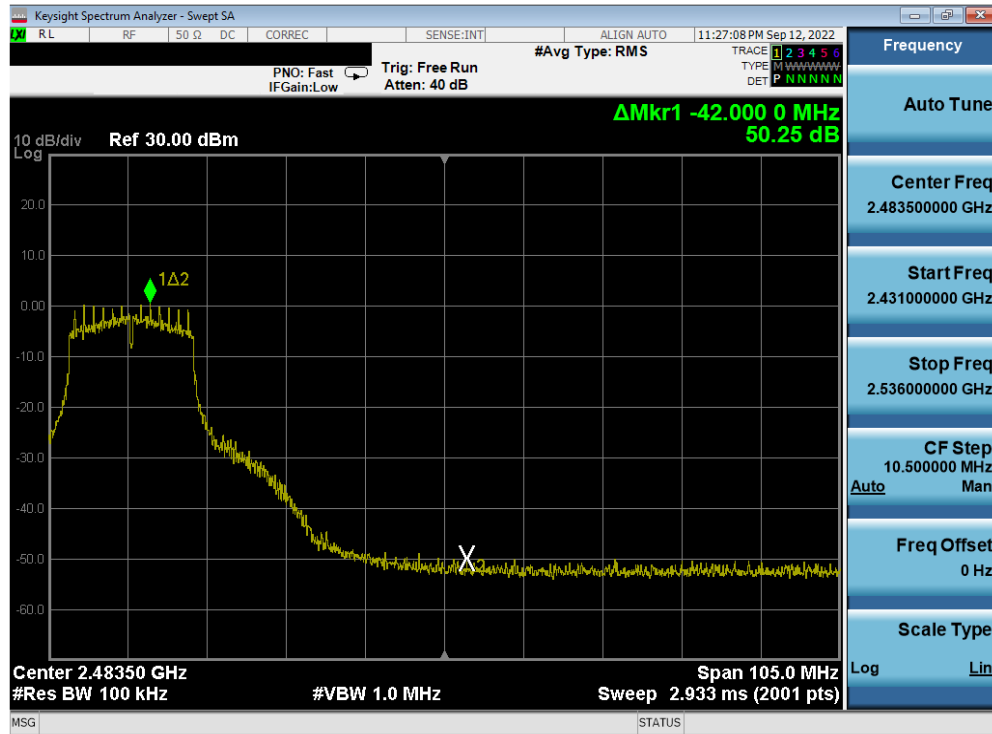


Plot 7-180. Band Edge Plot Antenna WF8 (802.11g- Ch. 6 (low)) – 12Mbps

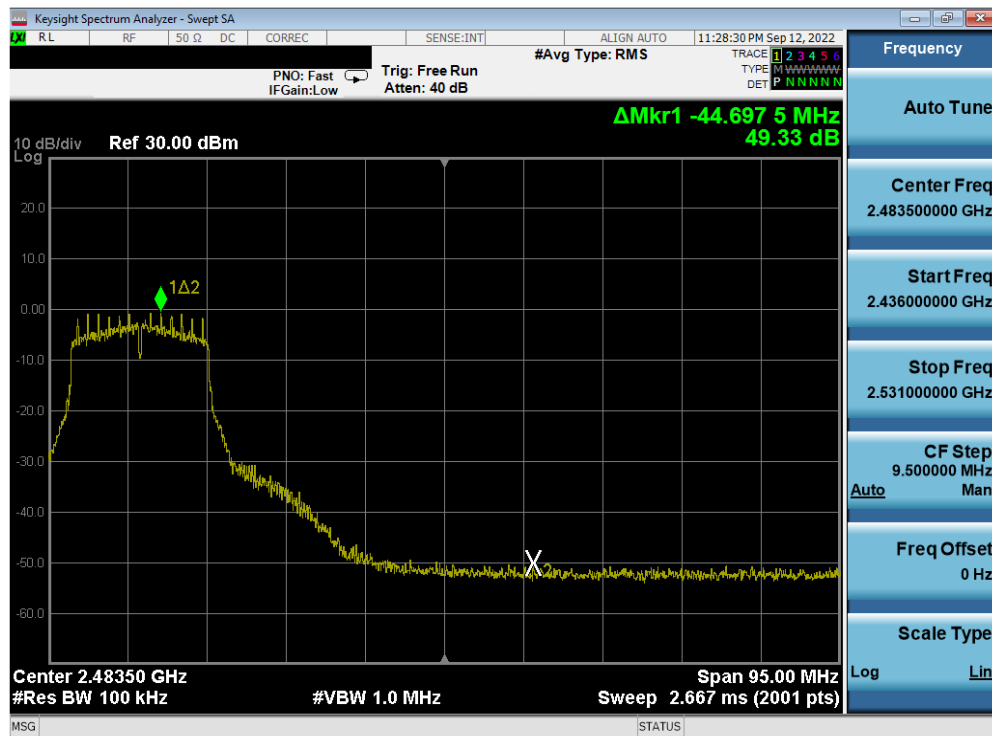
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 139 of 430

V 10.5 12/15/2021

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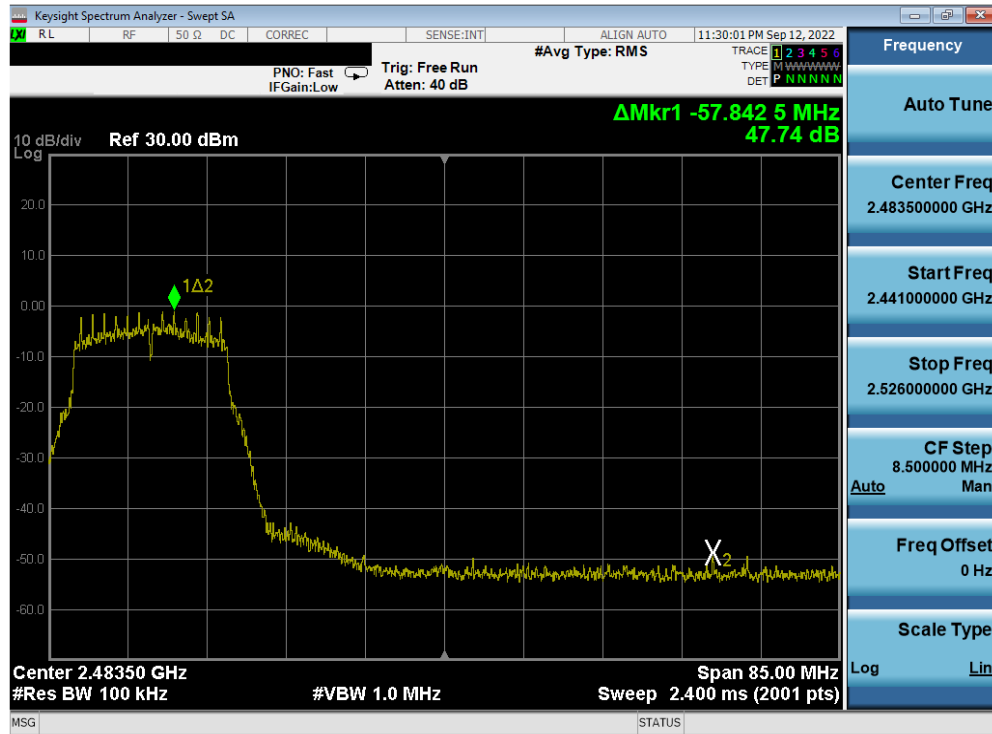


Plot 7-181. Band Edge Plot Antenna WF8 (802.11g - Ch. 7) - 12Mbps

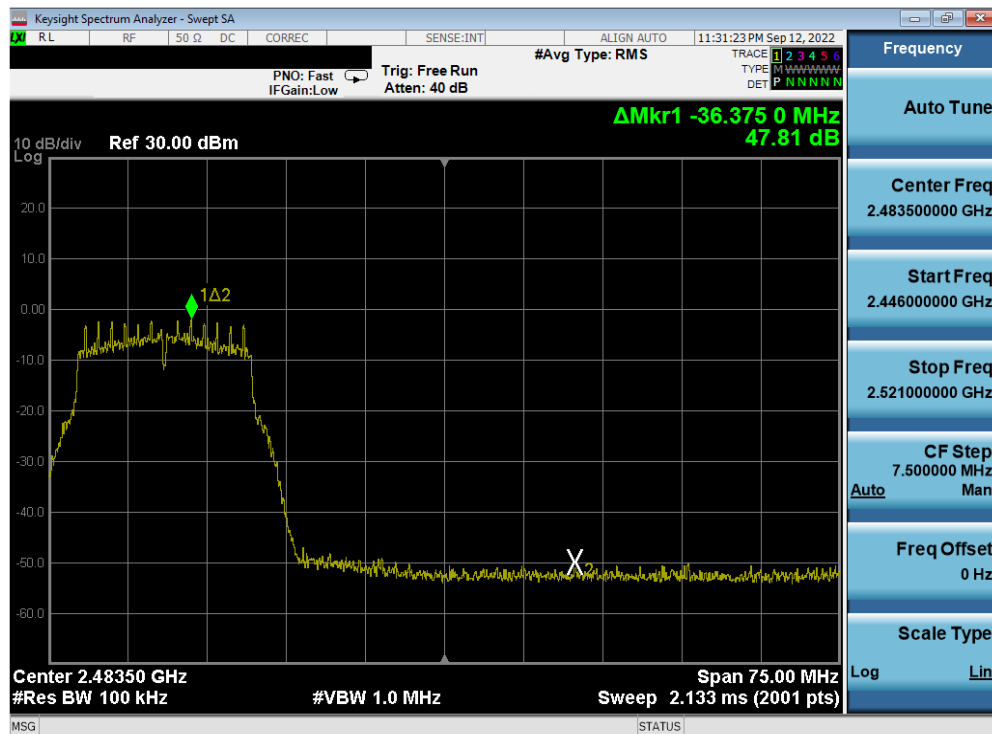


Plot 7-182. Band Edge Plot Antenna WF8 (802.11g - Ch. 8) - 12Mbps

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 140 of 430



Plot 7-183. Band Edge Plot Antenna WF8 (802.11g - Ch. 9) - 12Mbps

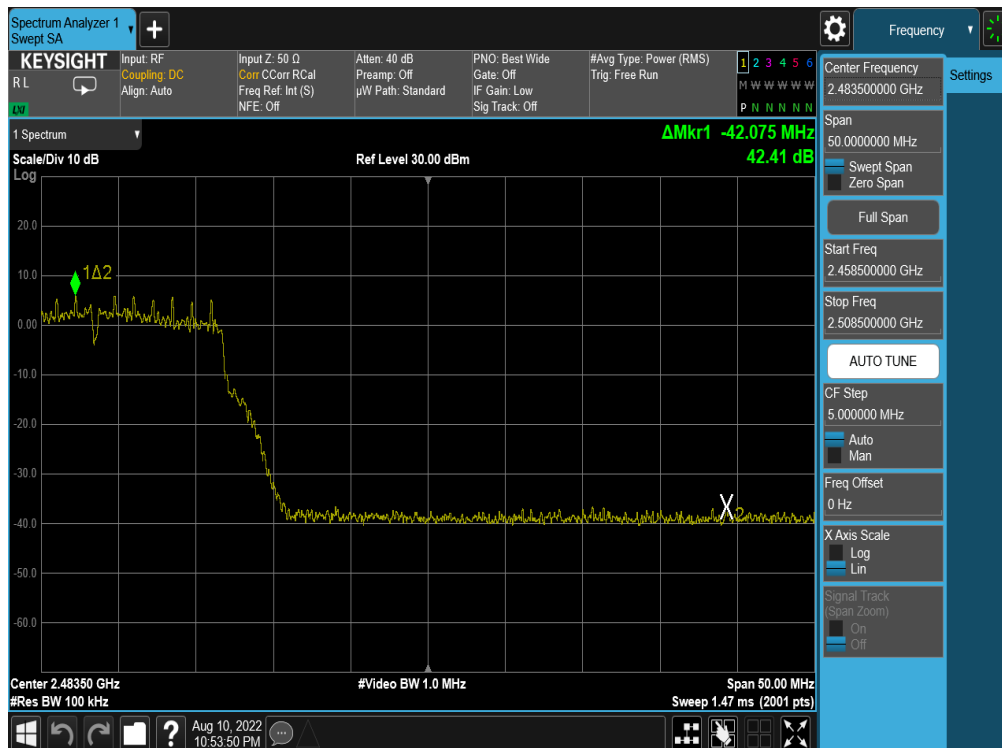


Plot 7-184. Band Edge Plot Antenna WF8 (802.11g - Ch. 10) - 12Mbps

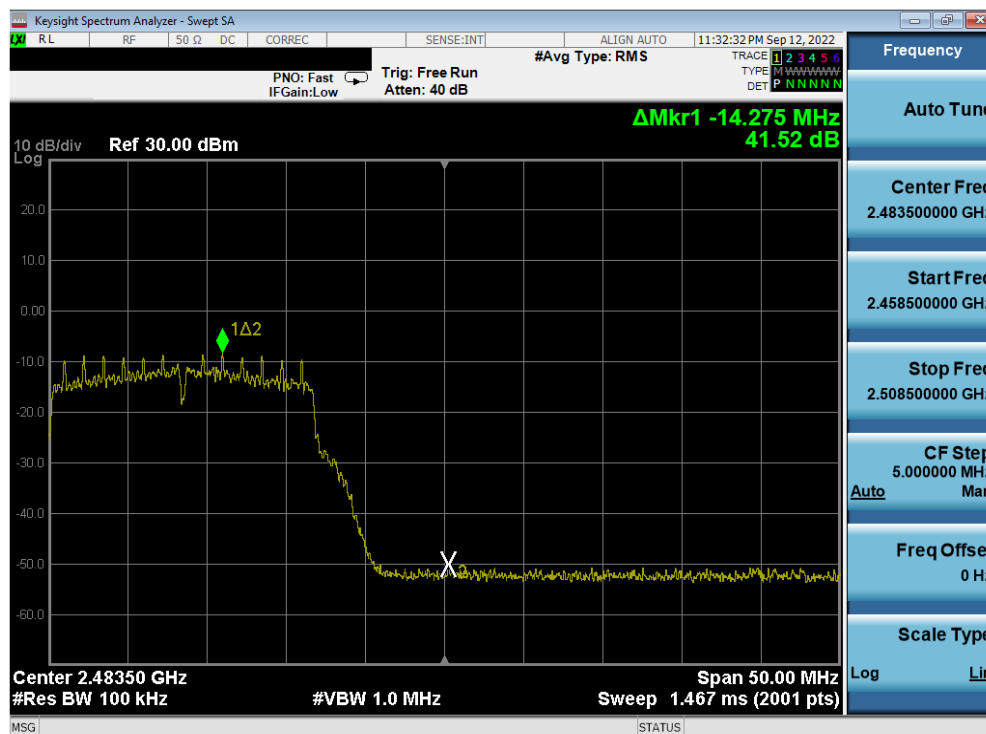
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 141 of 430

V 10.5 12/15/2021

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Plot 7-185. Band Edge Plot Antenna WF8 (802.11g – Ch. 11) – 12Mbps

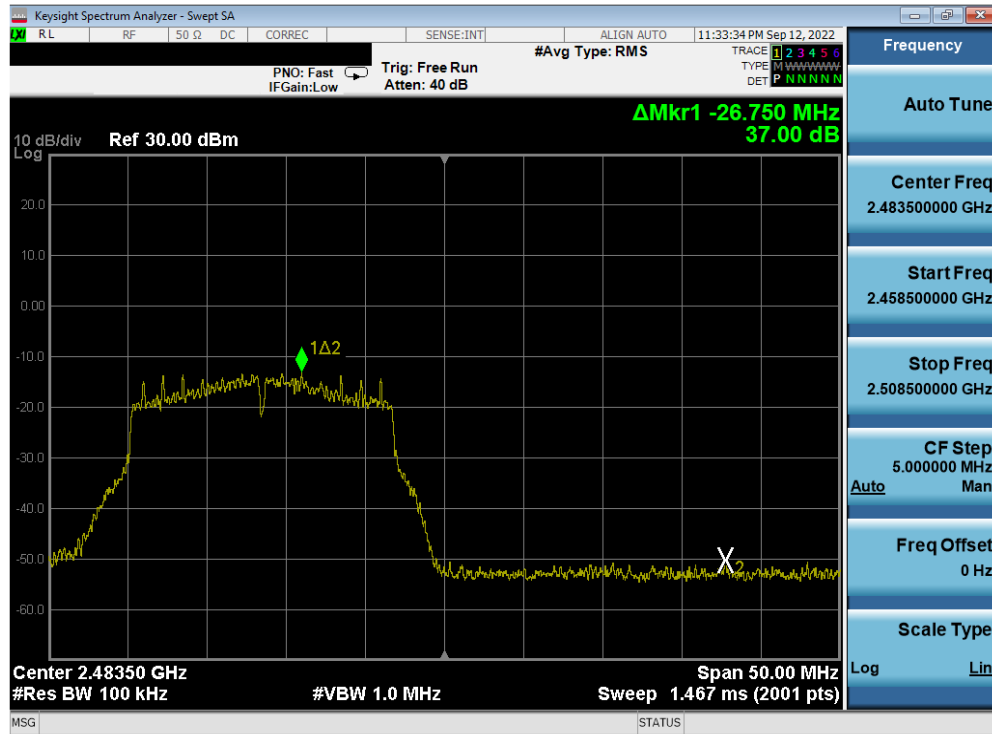


Plot 7-186. Band Edge Plot Antenna WF8 (802.11g – Ch. 12) – 12Mbps

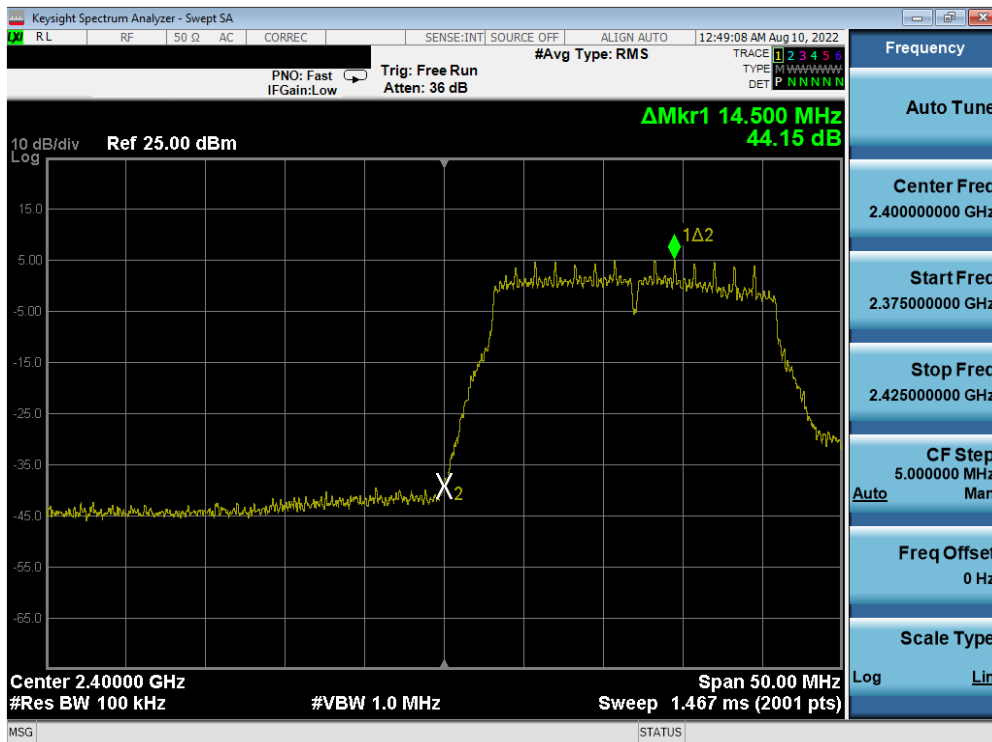
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 142 of 430

V 10.5 12/15/2021

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Plot 7-187. Band Edge Plot Antenna WF8 (802.11g – Ch. 13) – 12Mbps

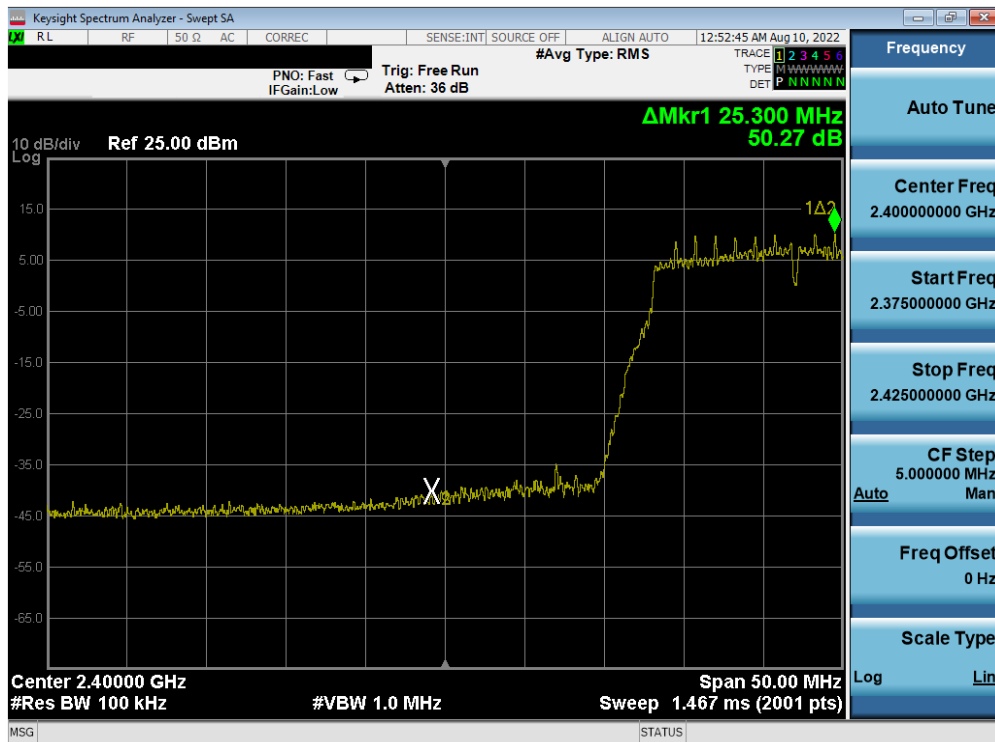
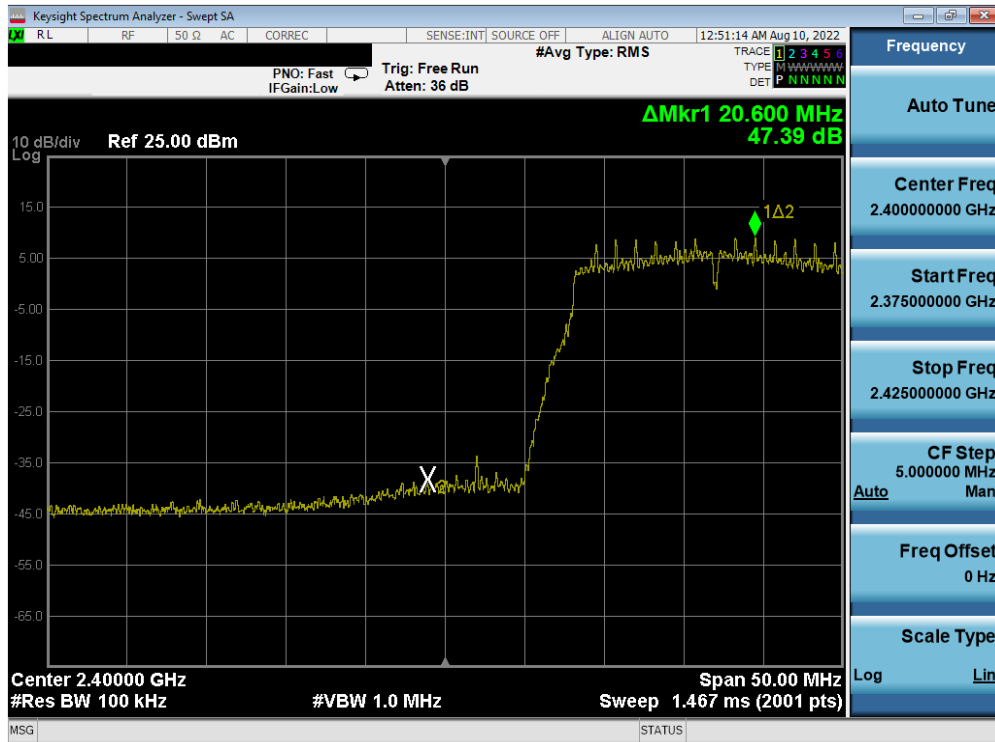


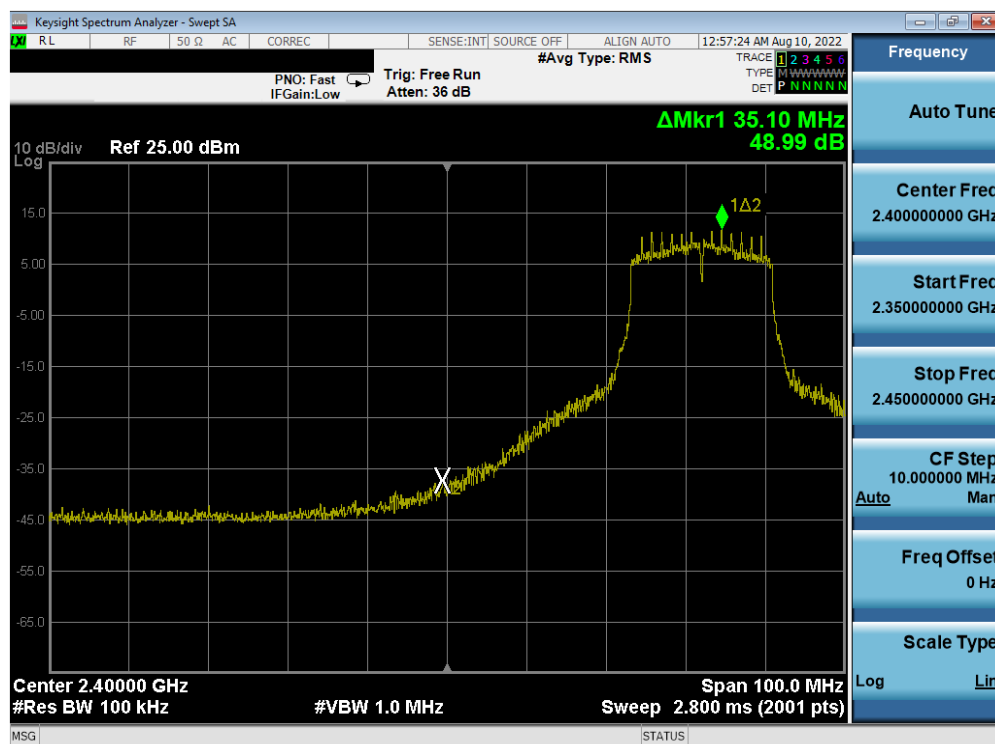
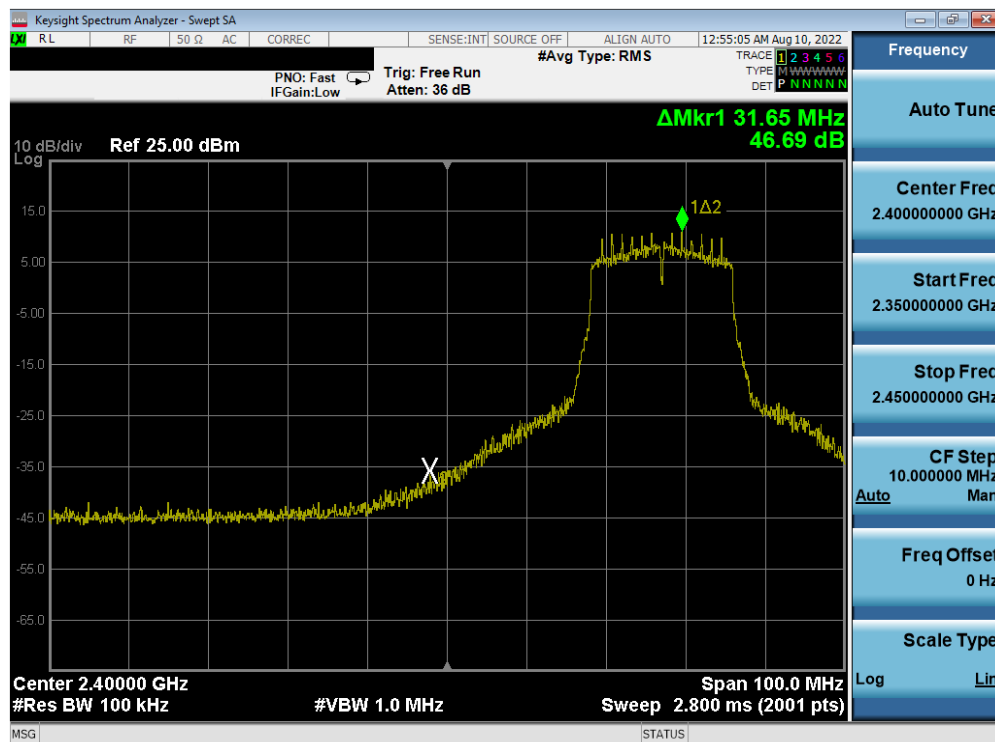
Plot 7-188. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 143 of 430

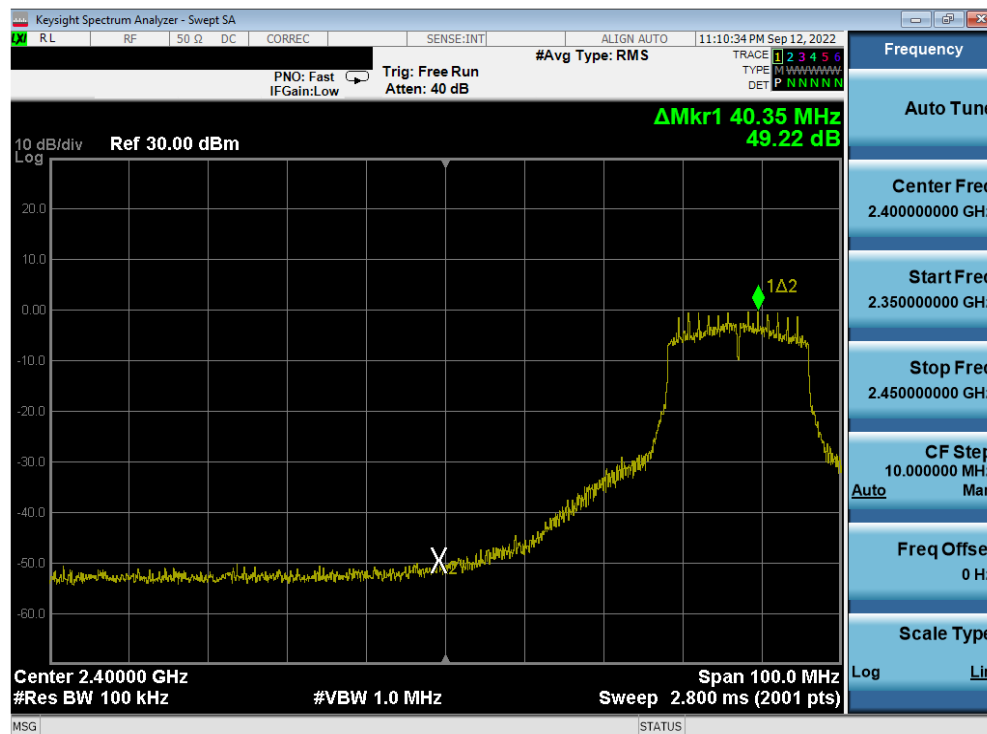
V 10.5 12/15/2021

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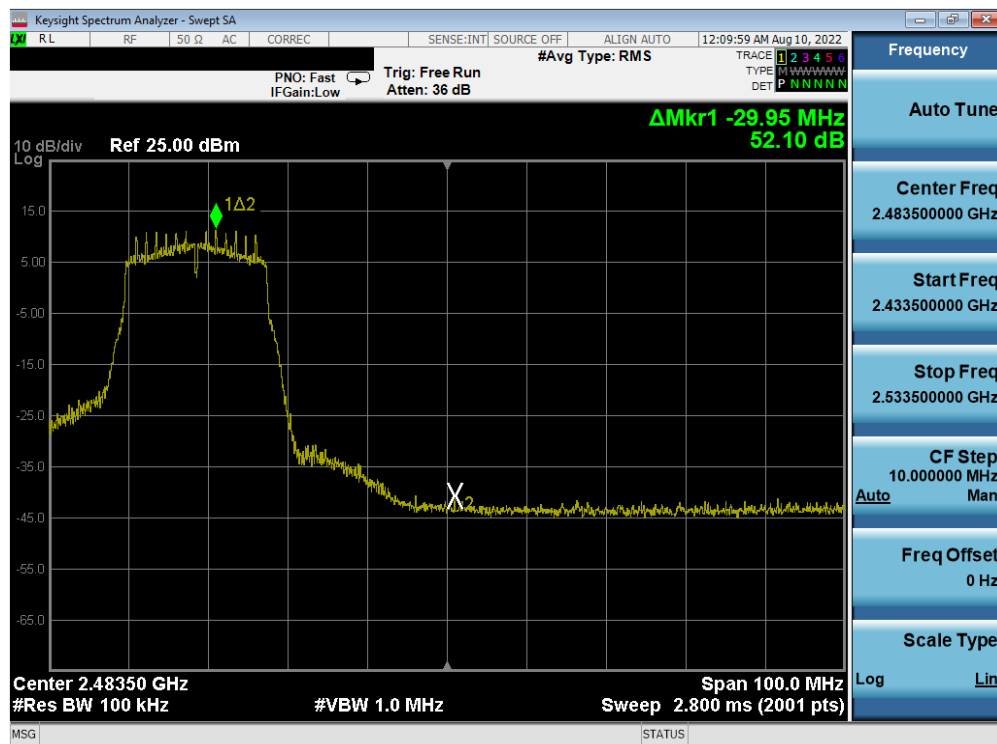
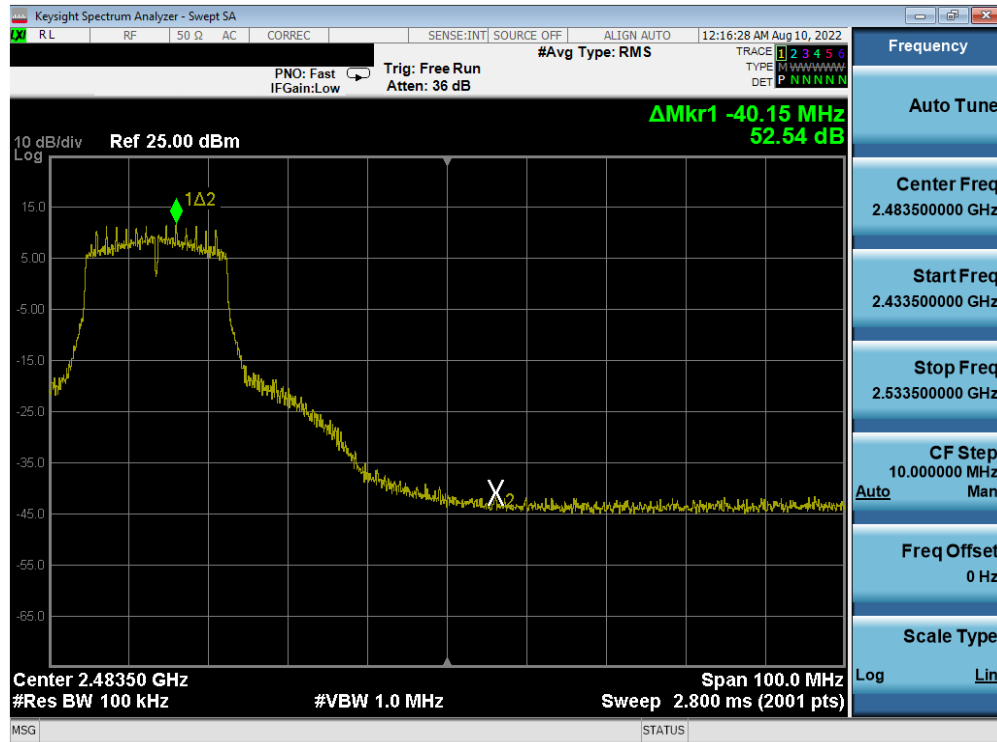


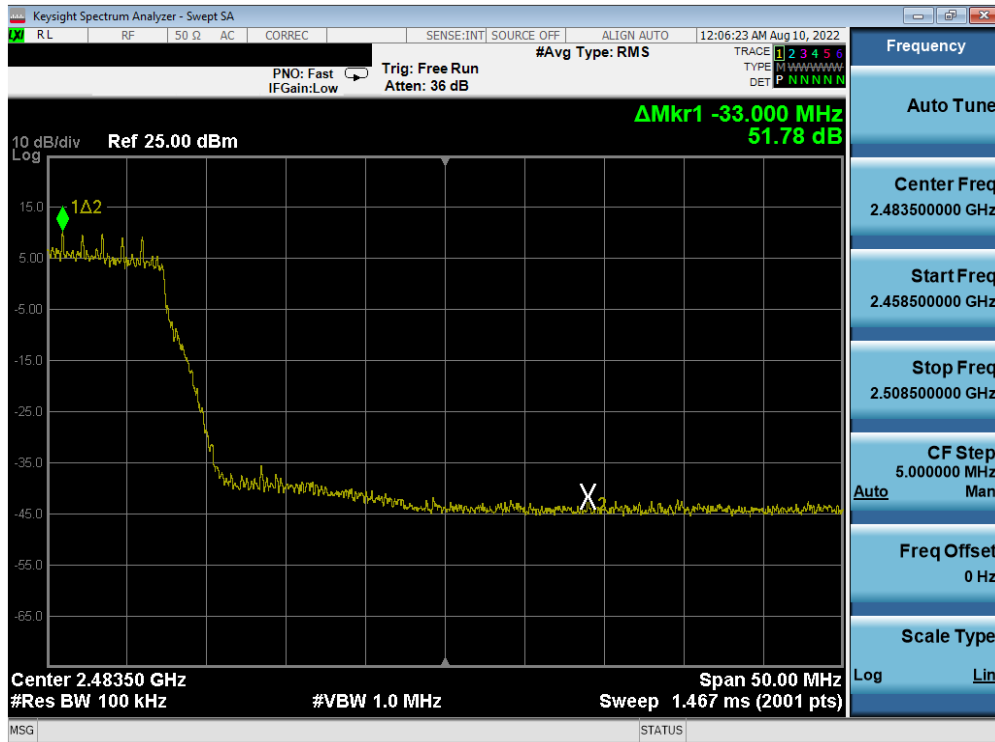
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 145 of 430



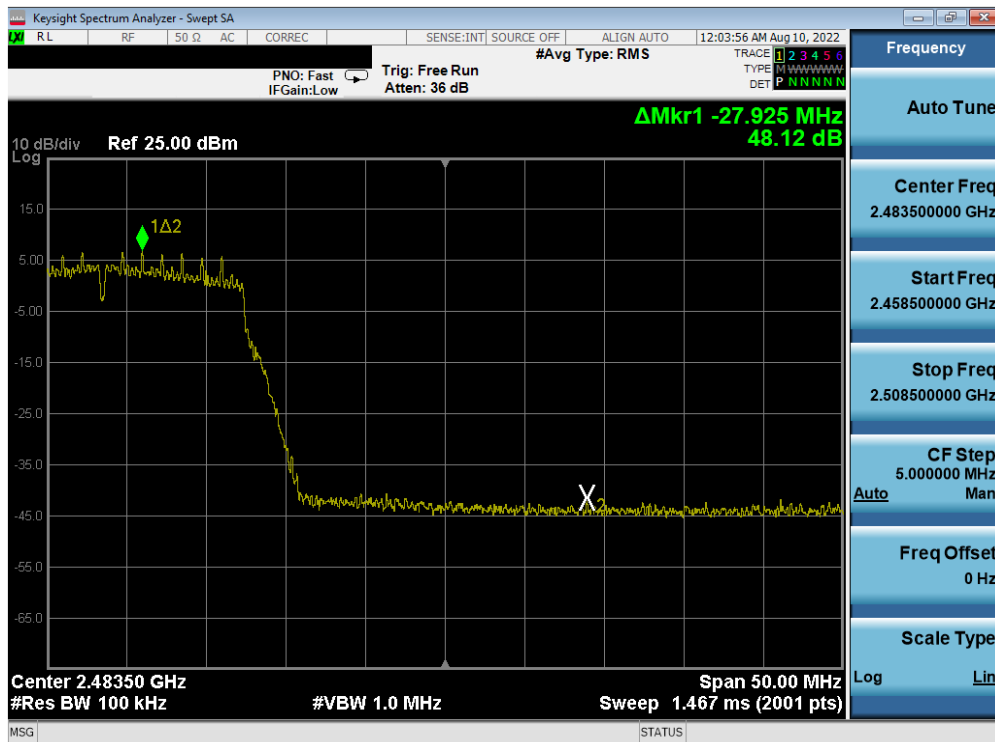
Plot 7-193. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 6 (low)) – MCS2

Plot 7-194. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 7) – MCS2





Plot 7-197. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 10) – MCS2

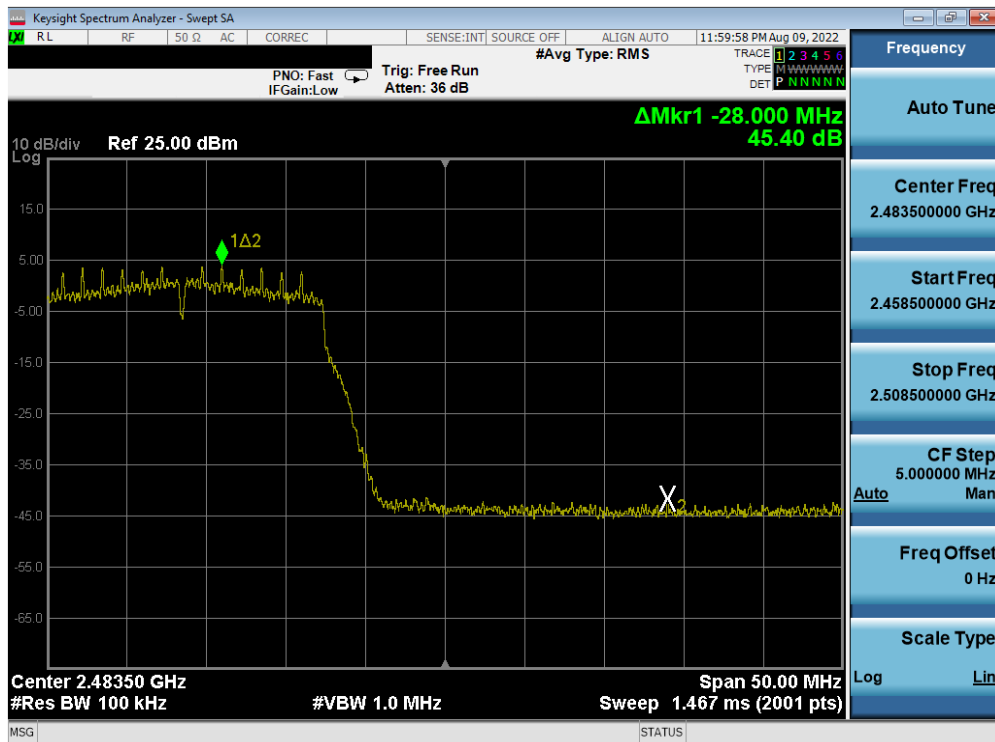


Plot 7-198. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 11) – MCS2

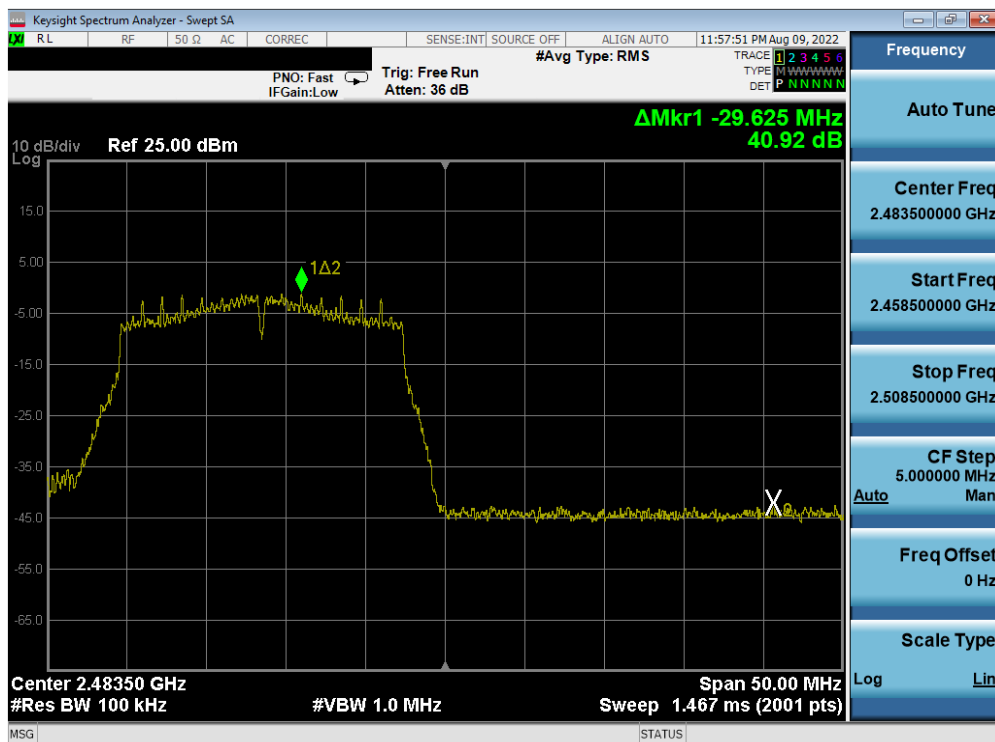
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 148 of 430

V 10.5 12/15/2021

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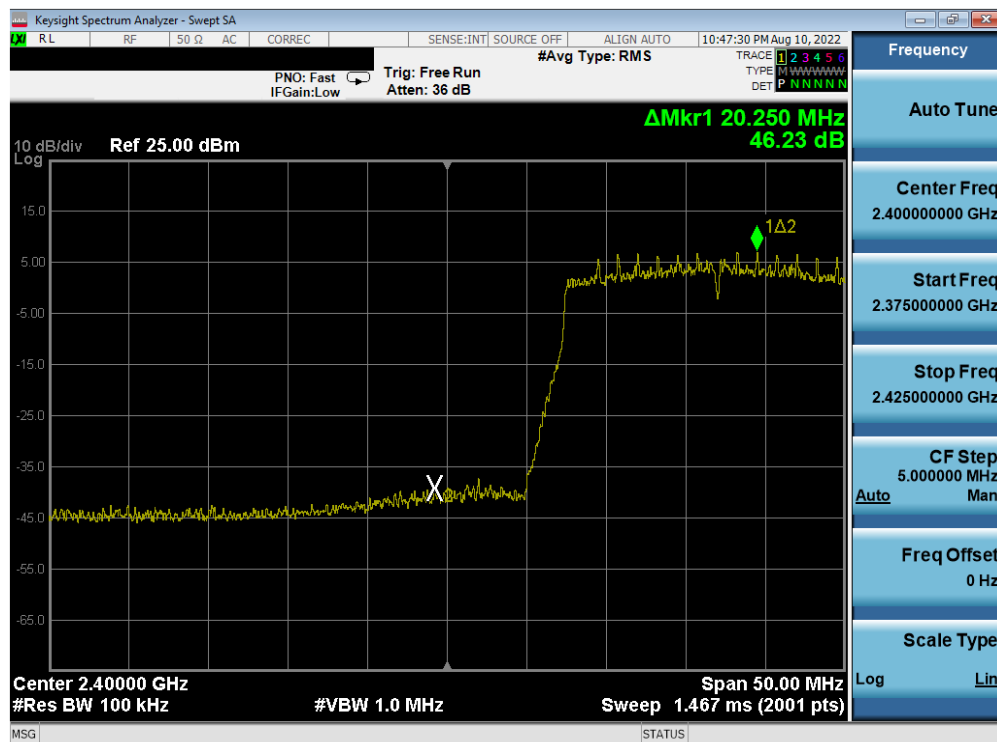
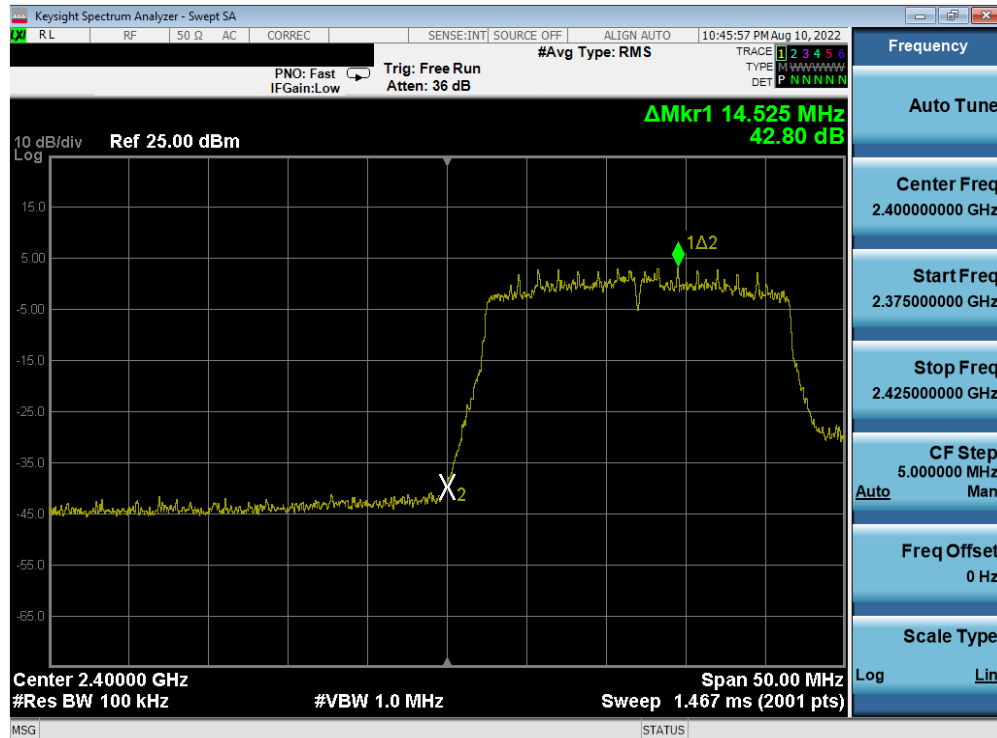


Plot 7-199. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 12) – MCS2

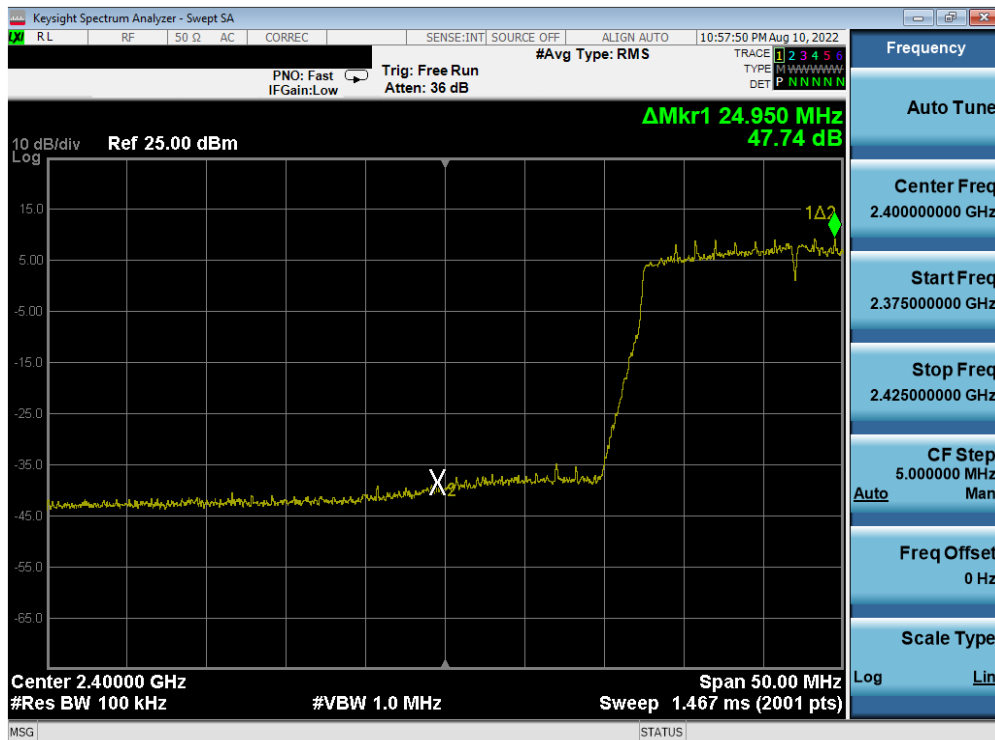


Plot 7-200. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 13) – MCS2

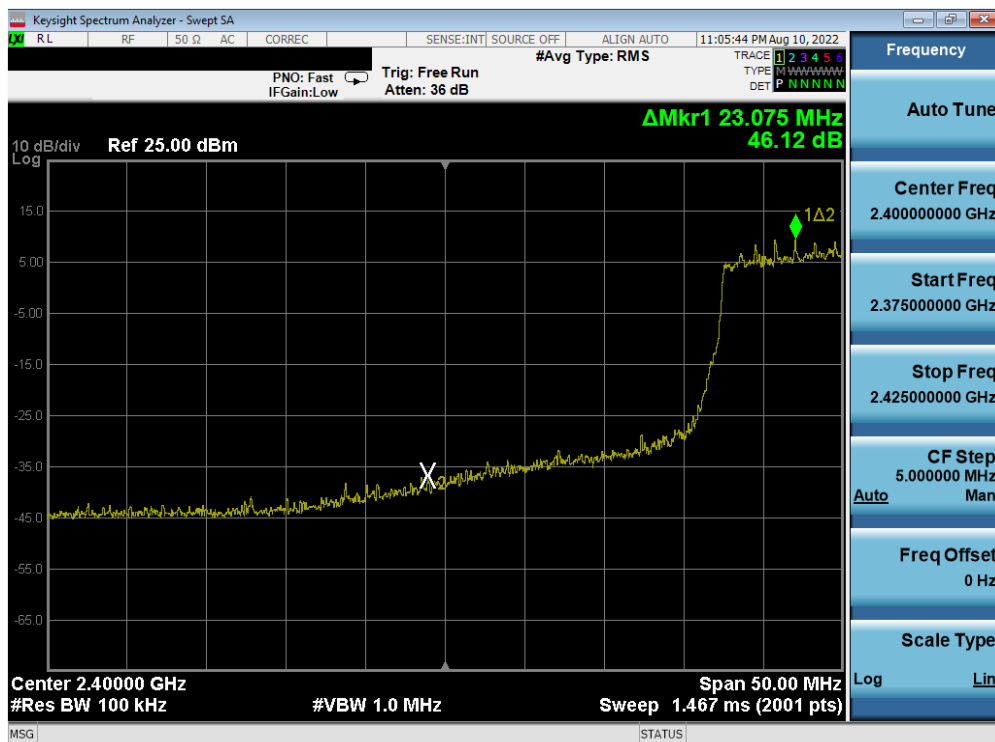
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 149 of 430



FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 150 of 430



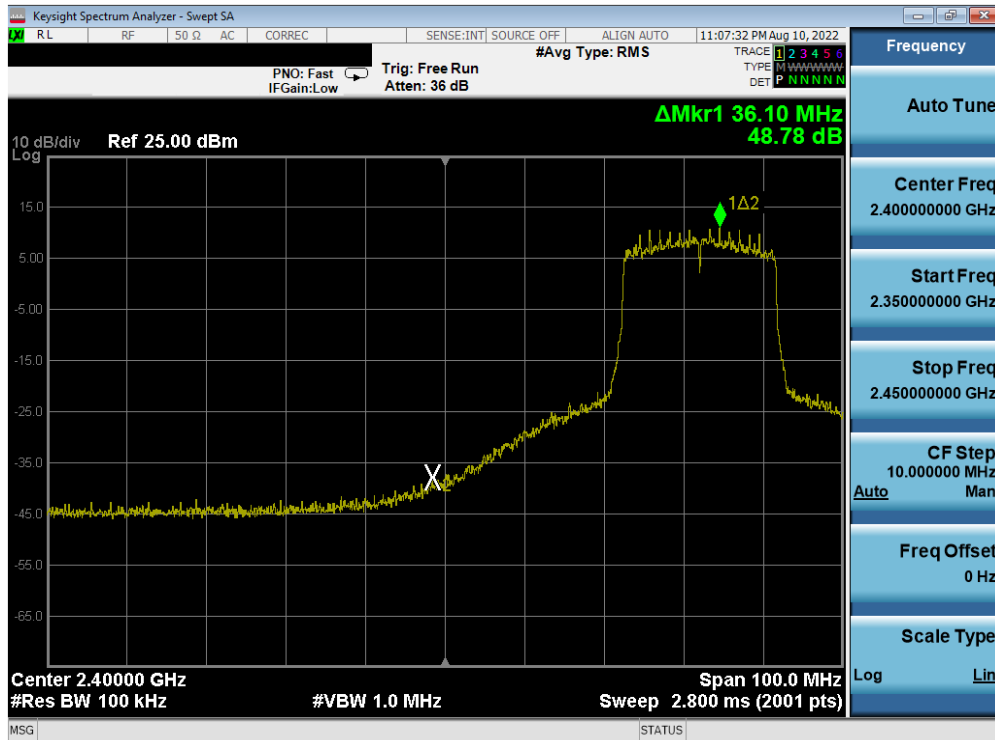
Plot 7-203. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS2



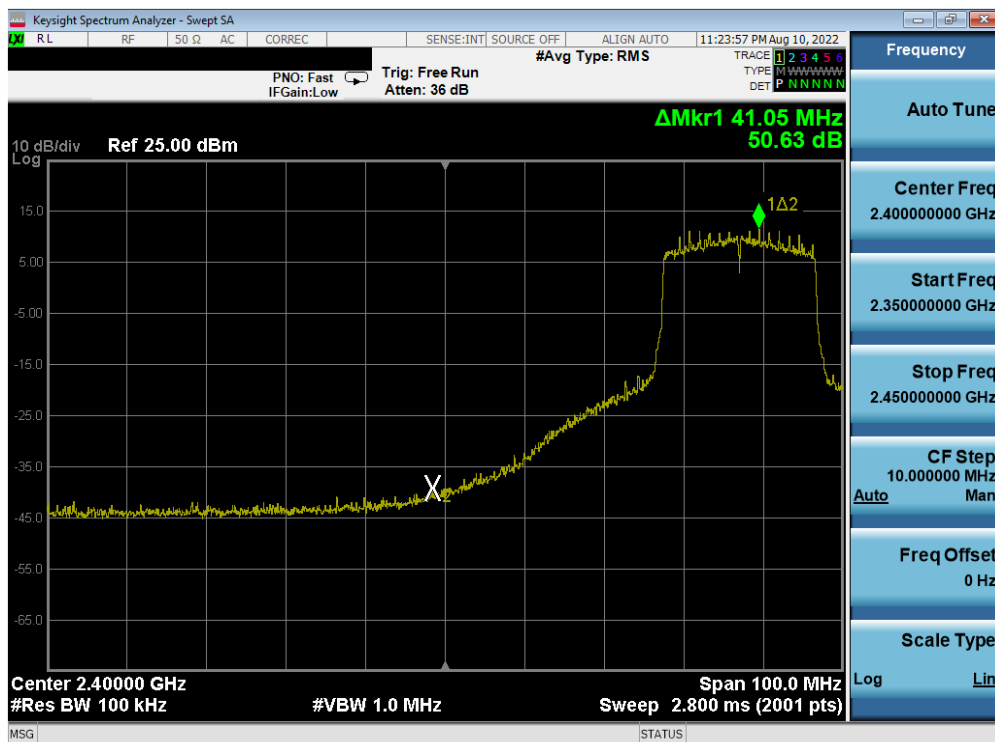
Plot 7-204. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS2

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 151 of 430

V 10.5 12/15/2021



Plot 7-205. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 5) – MCS2

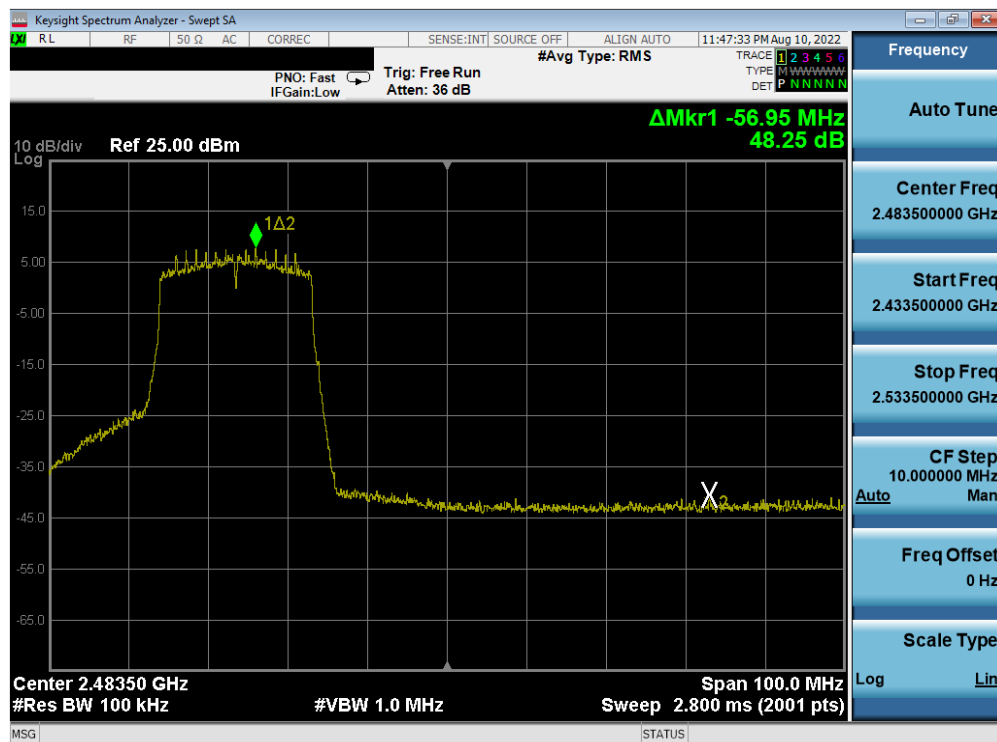
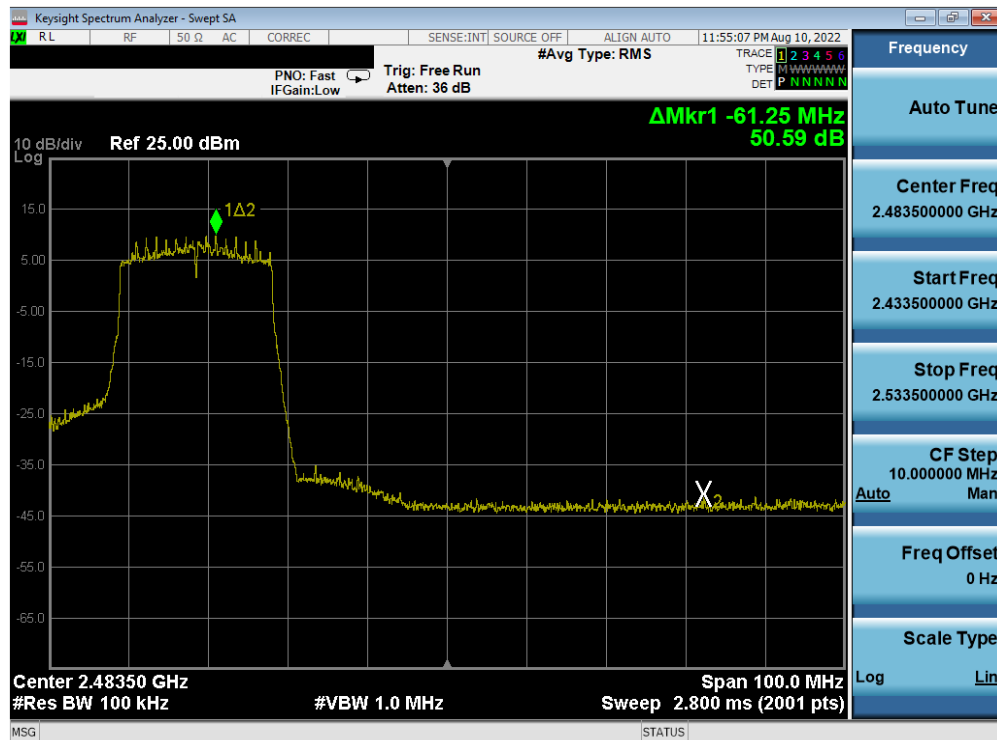


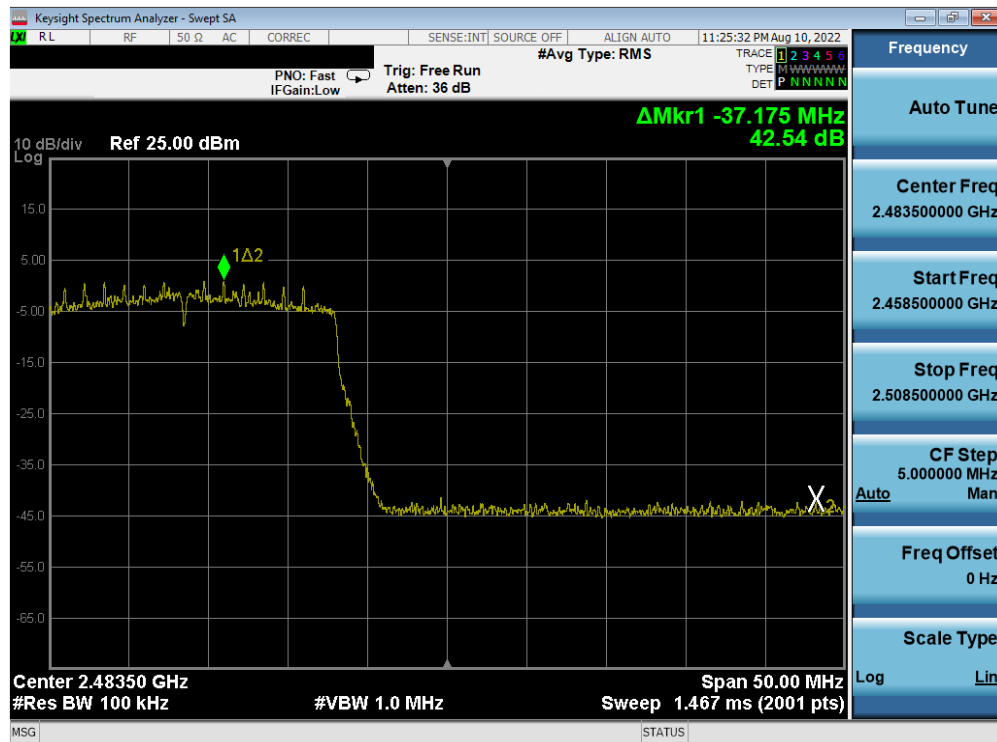
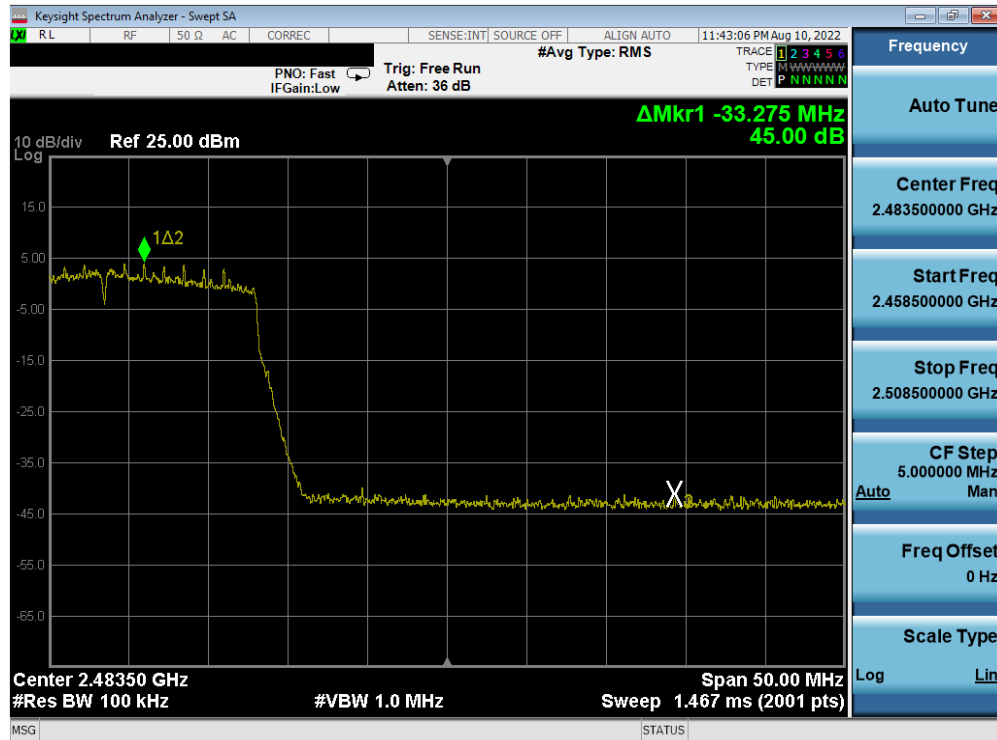
Plot 7-206. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6 (low)) – MCS2

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 152 of 430

V 10.5 12/15/2021

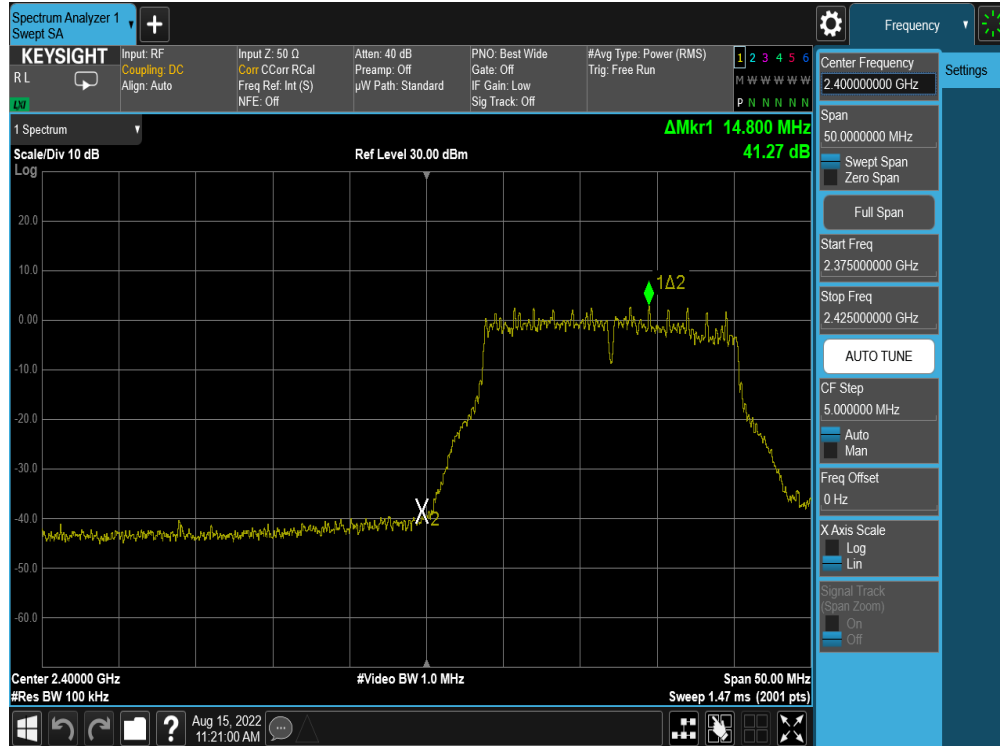
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FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 155 of 430

Mid Data Rate



Plot 7-213. Band Edge Plot Antenna WF8 (802.11g- Ch. 1) – 24Mbps

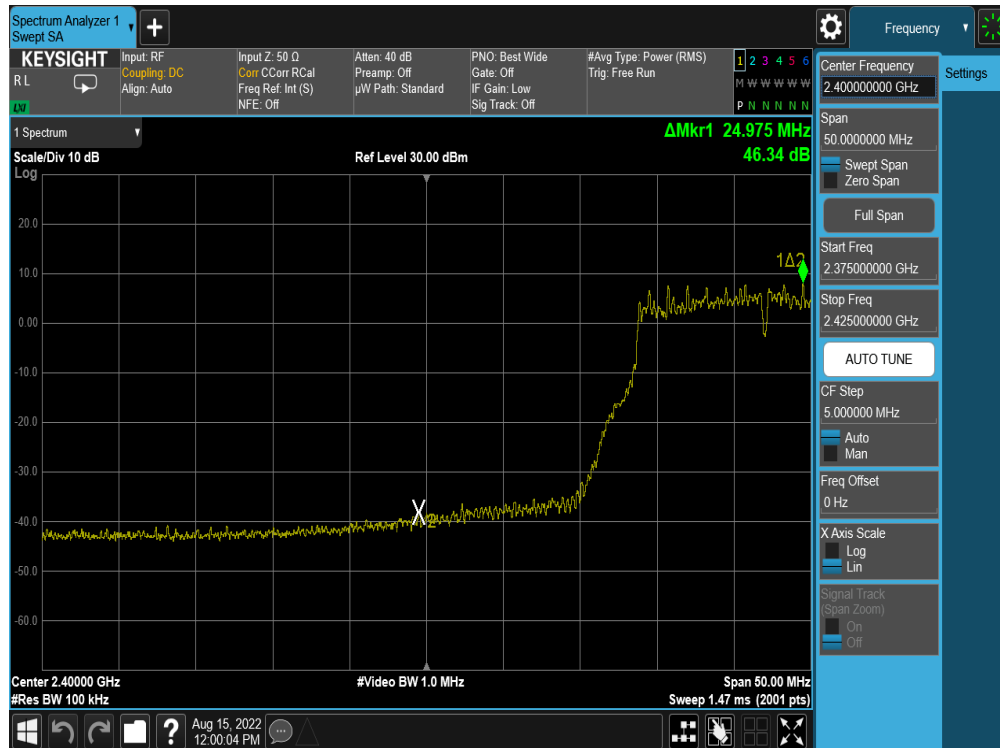


Plot 7-214. Band Edge Plot Antenna WF8 (802.11g- Ch. 2) – 24Mbps

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 156 of 430

V 10.5 12/15/2021

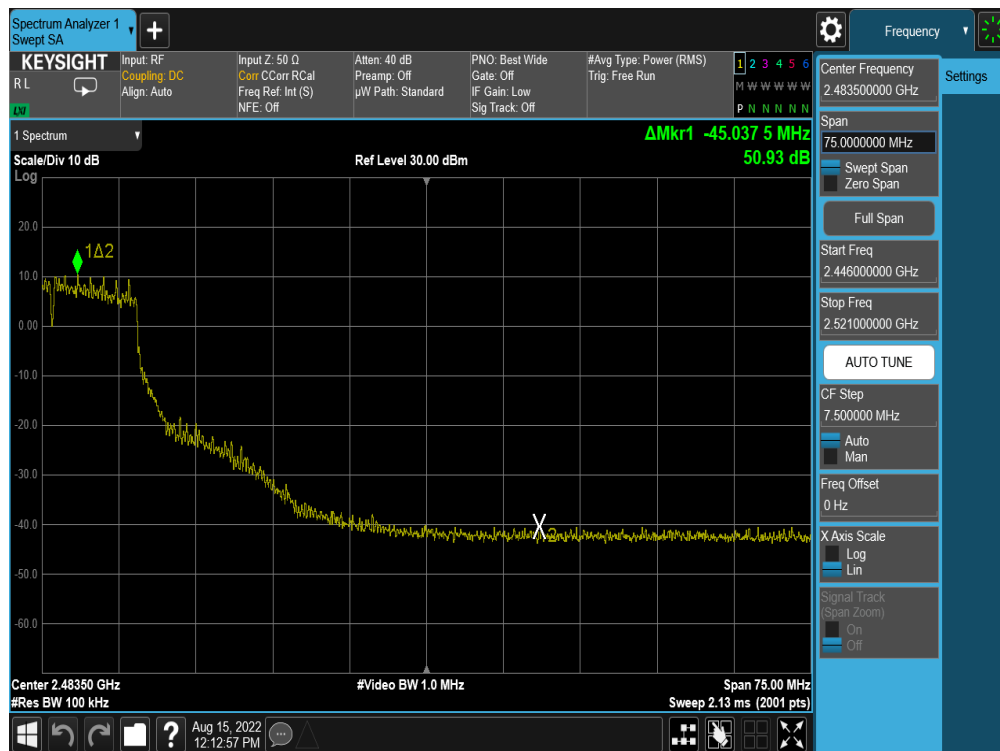
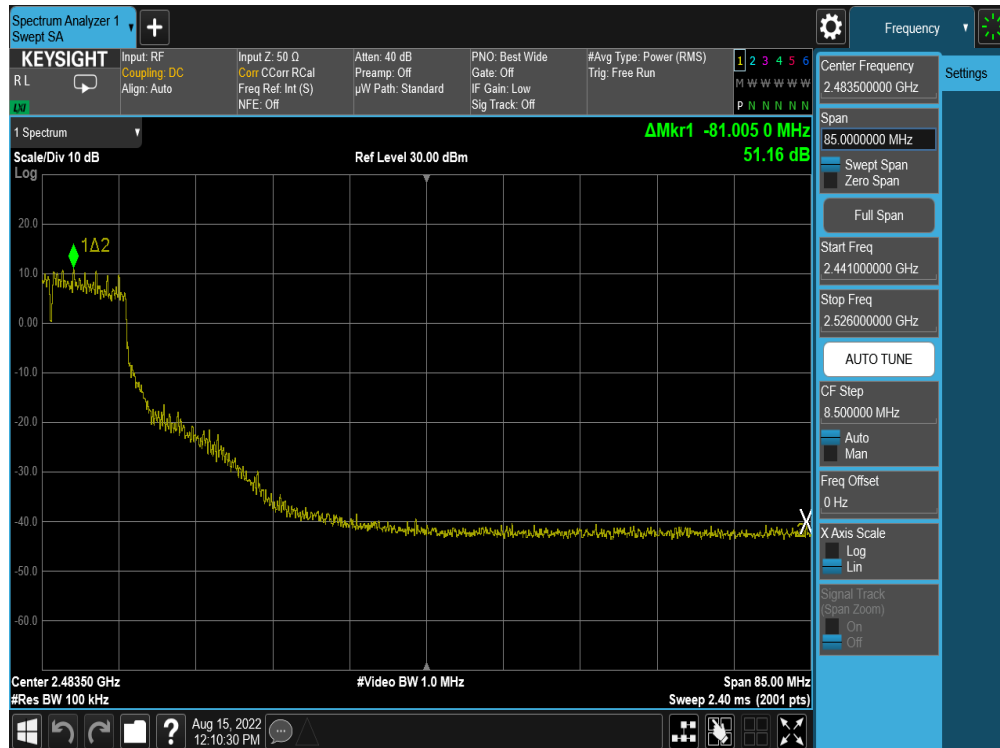
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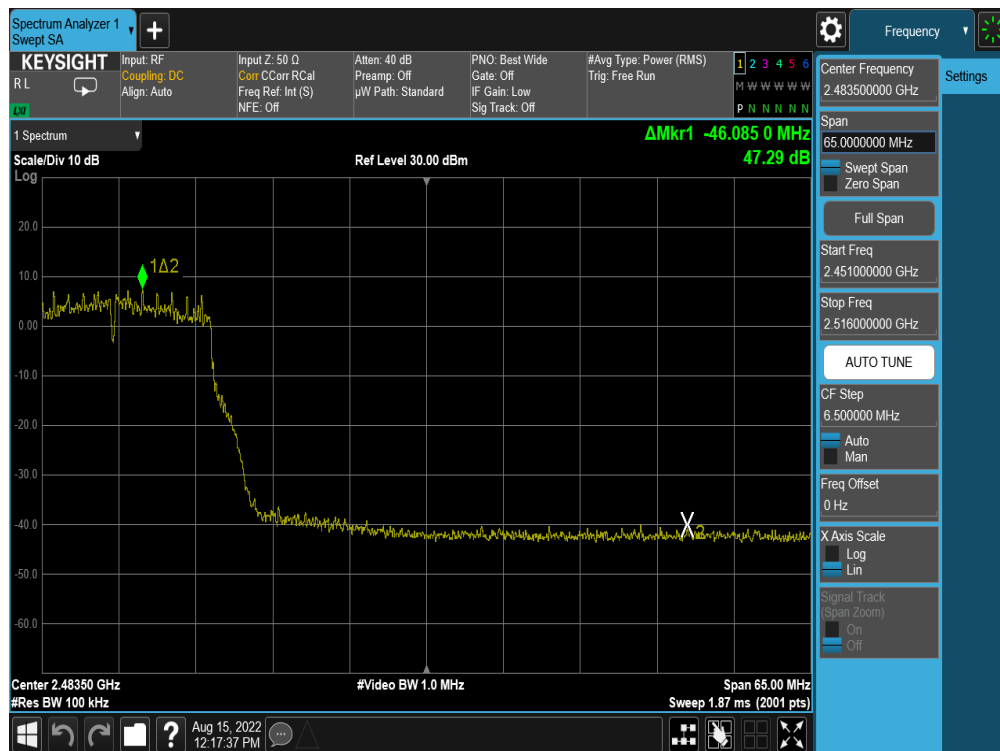
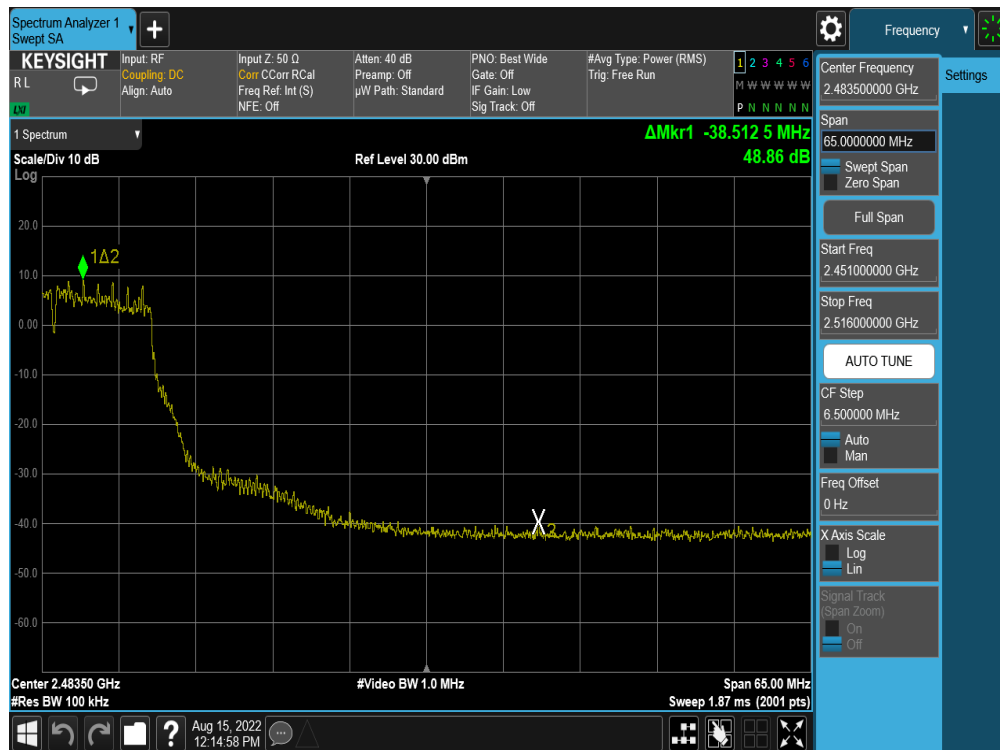
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 157 of 430



FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 158 of 430



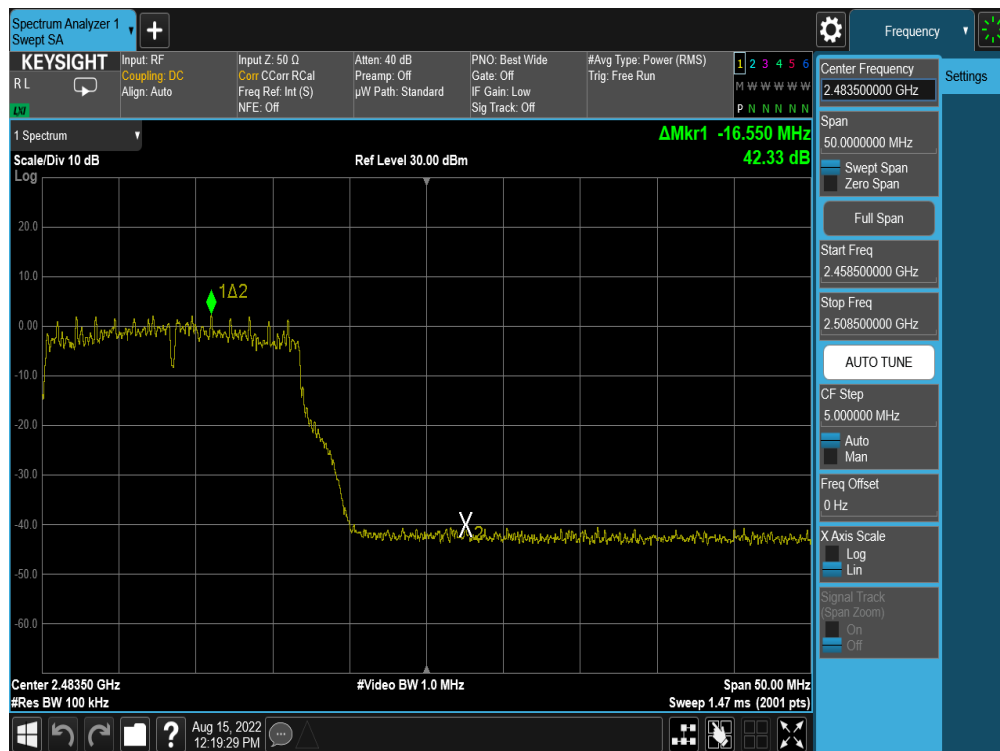
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 159 of 430



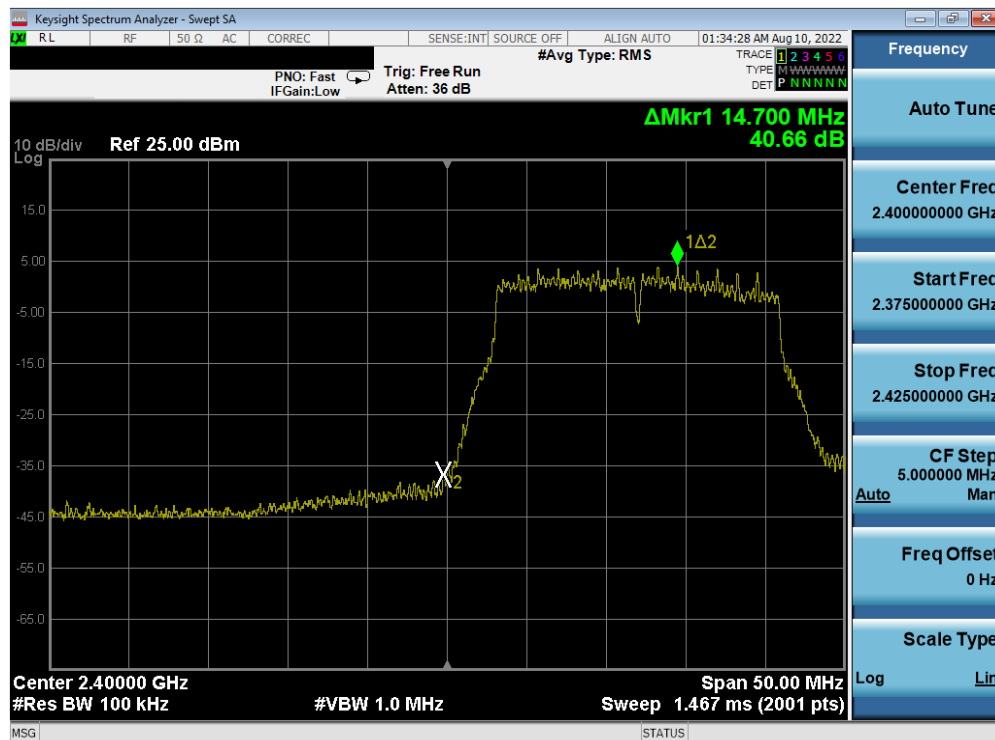
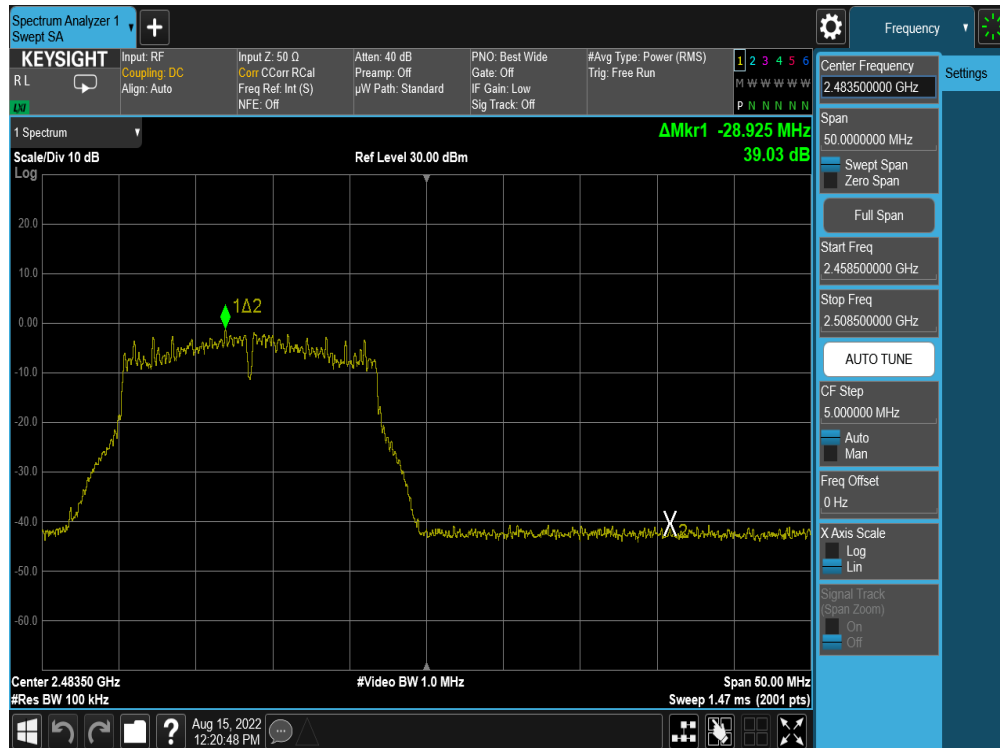
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 160 of 430

V 10.5 12/15/2021

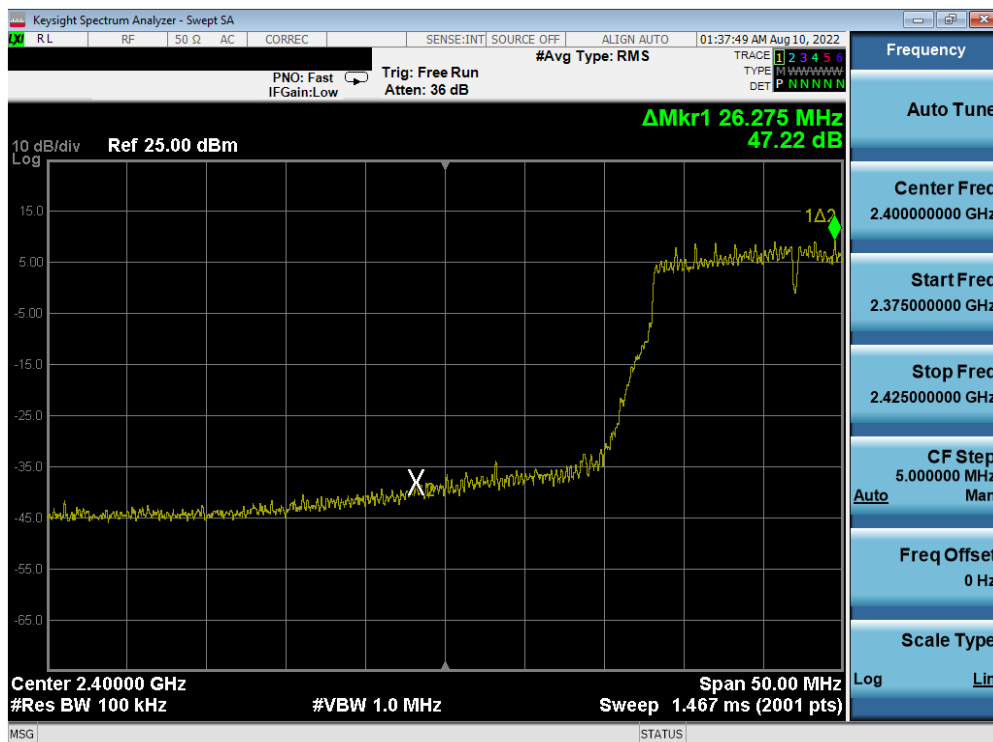
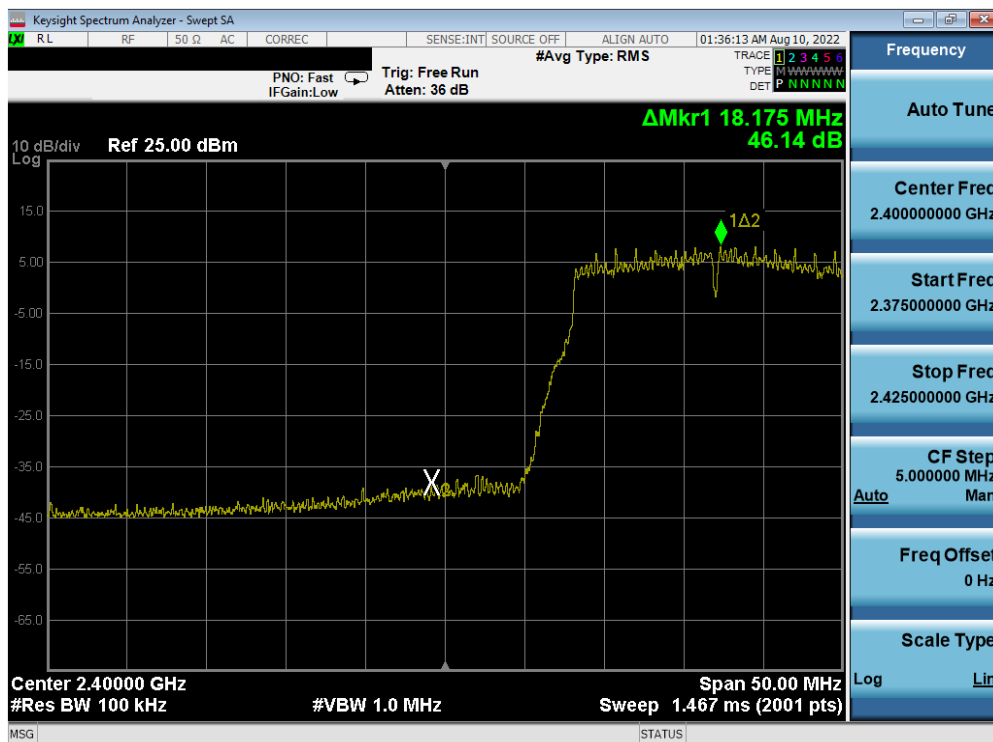
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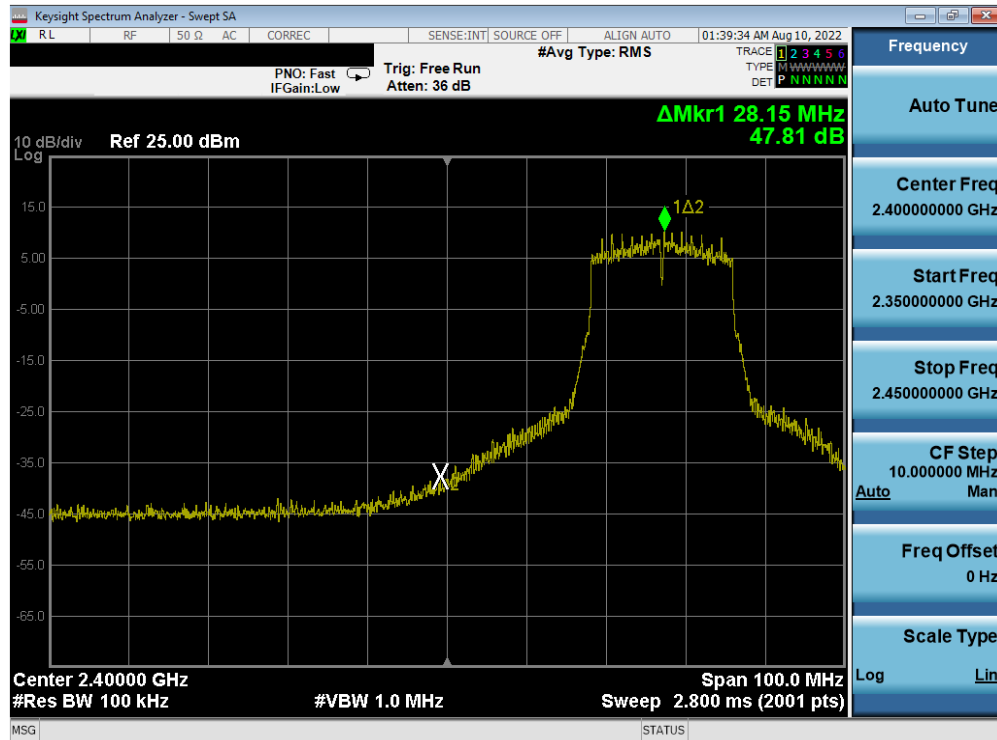
FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 161 of 430

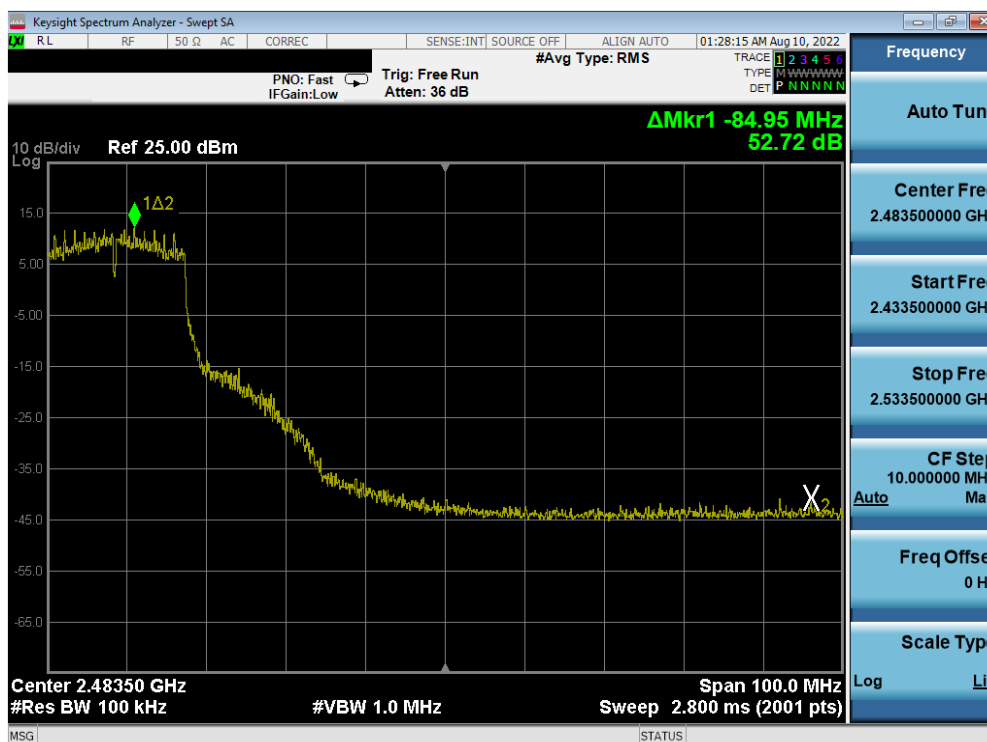
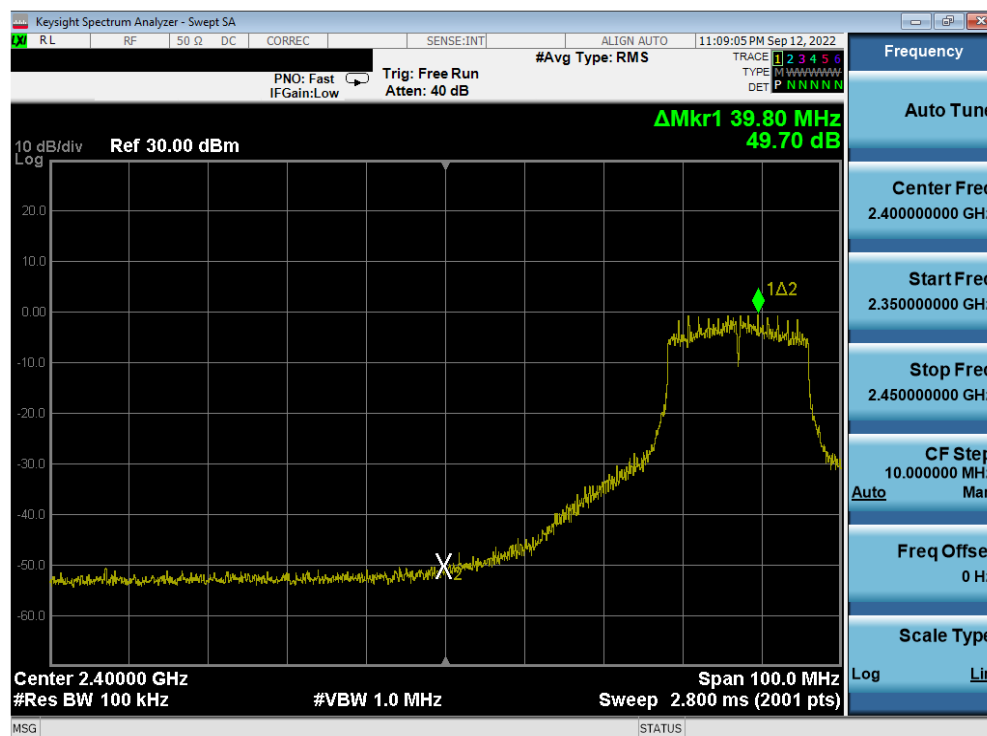


FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 162 of 430

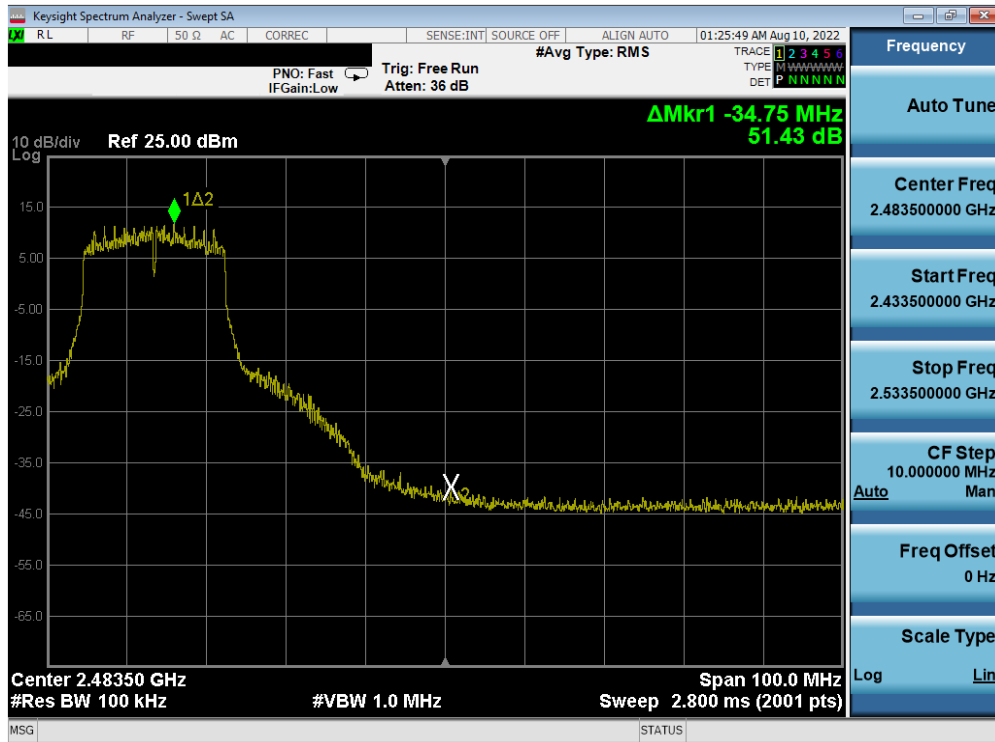


FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 163 of 430

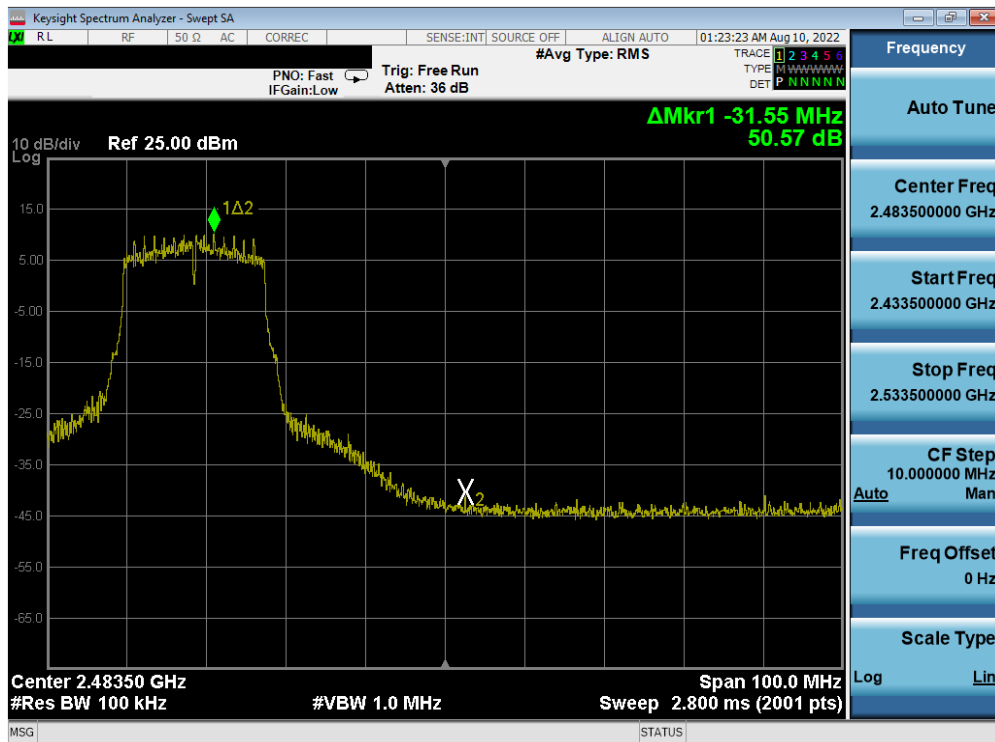




FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 165 of 430



Plot 7-233. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 8) – MCS4

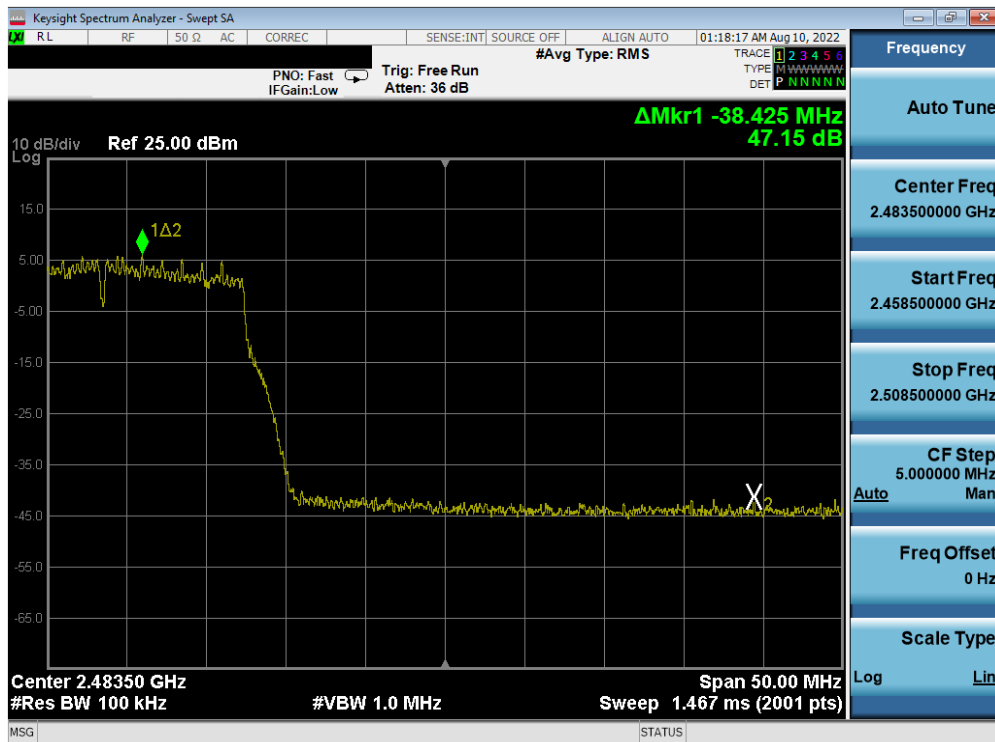
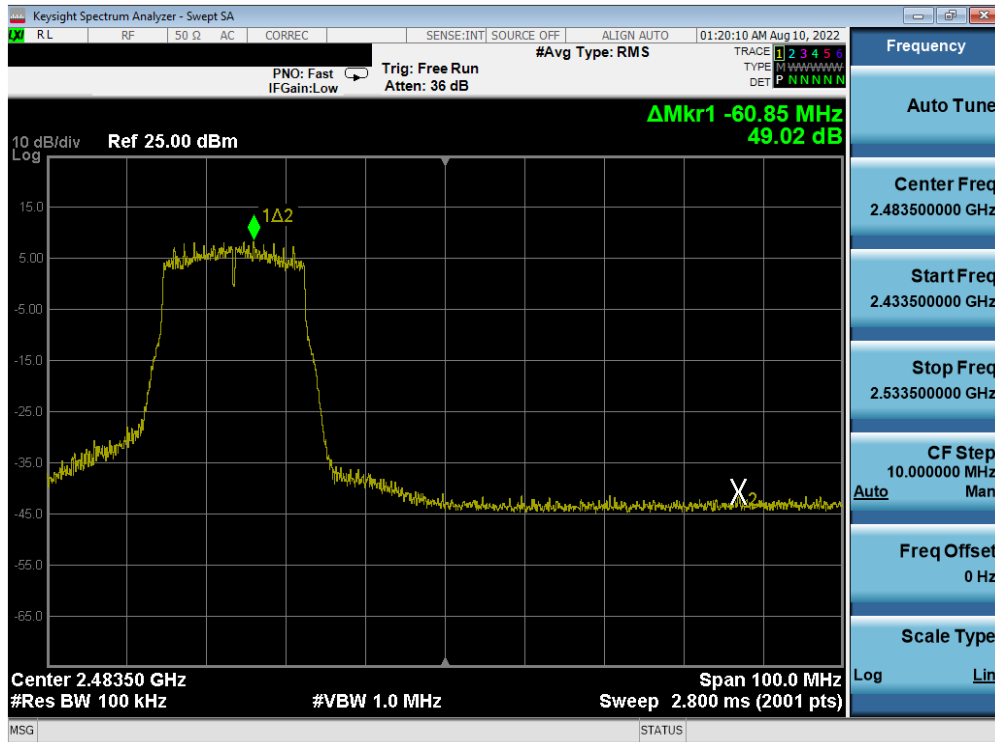


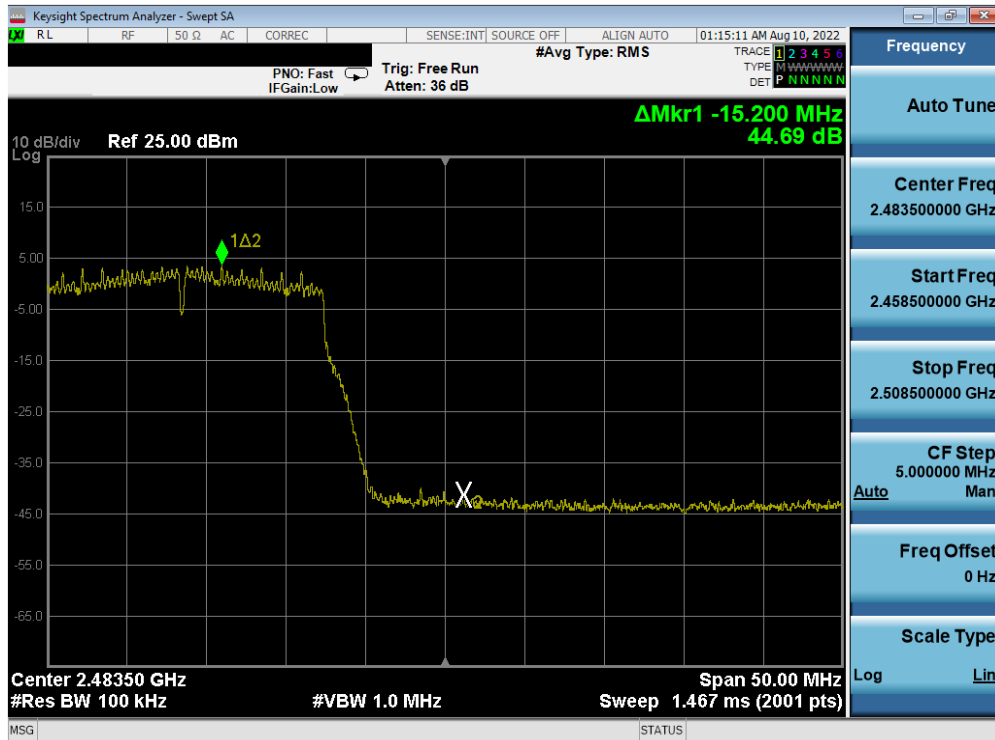
Plot 7-234. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 9) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 166 of 430

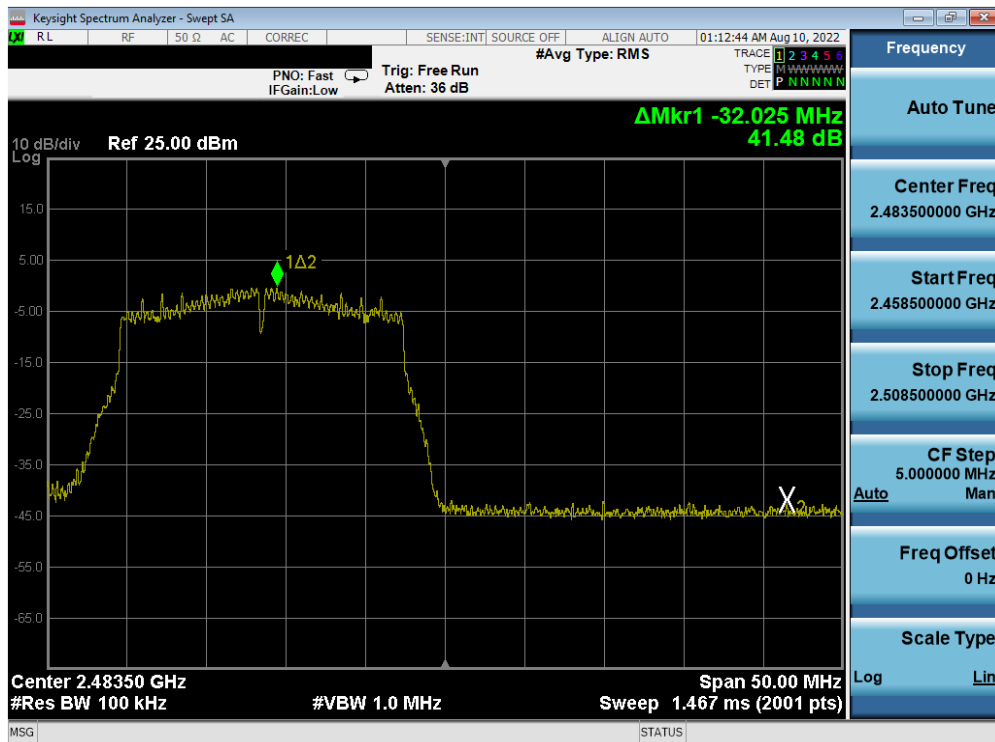
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Plot 7-237. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 12) – MCS4

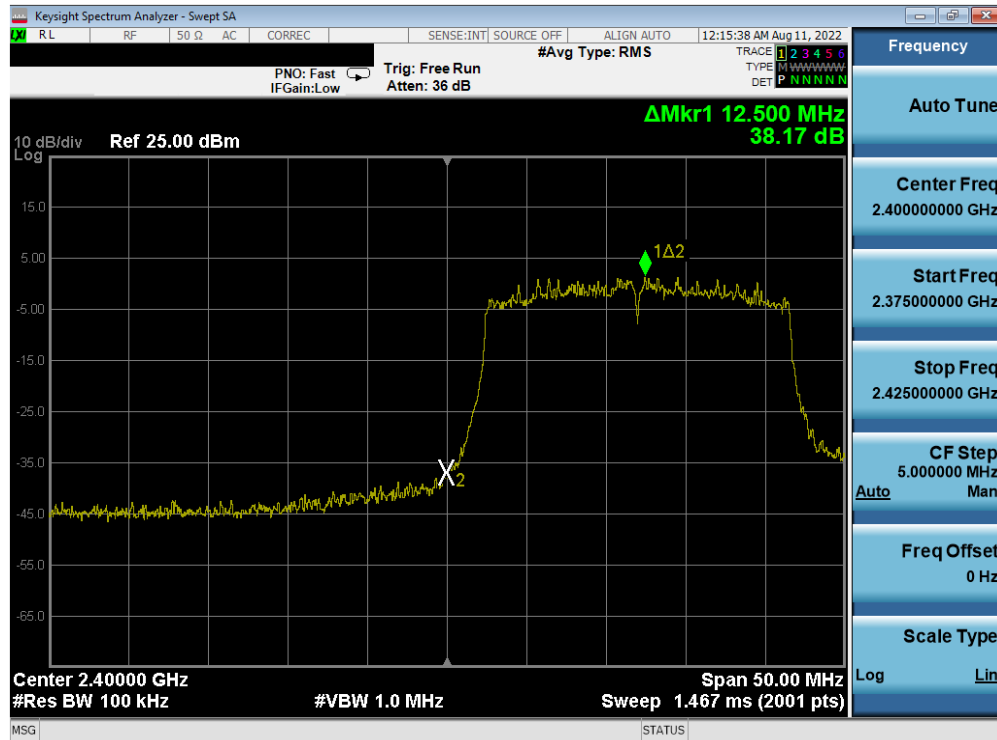


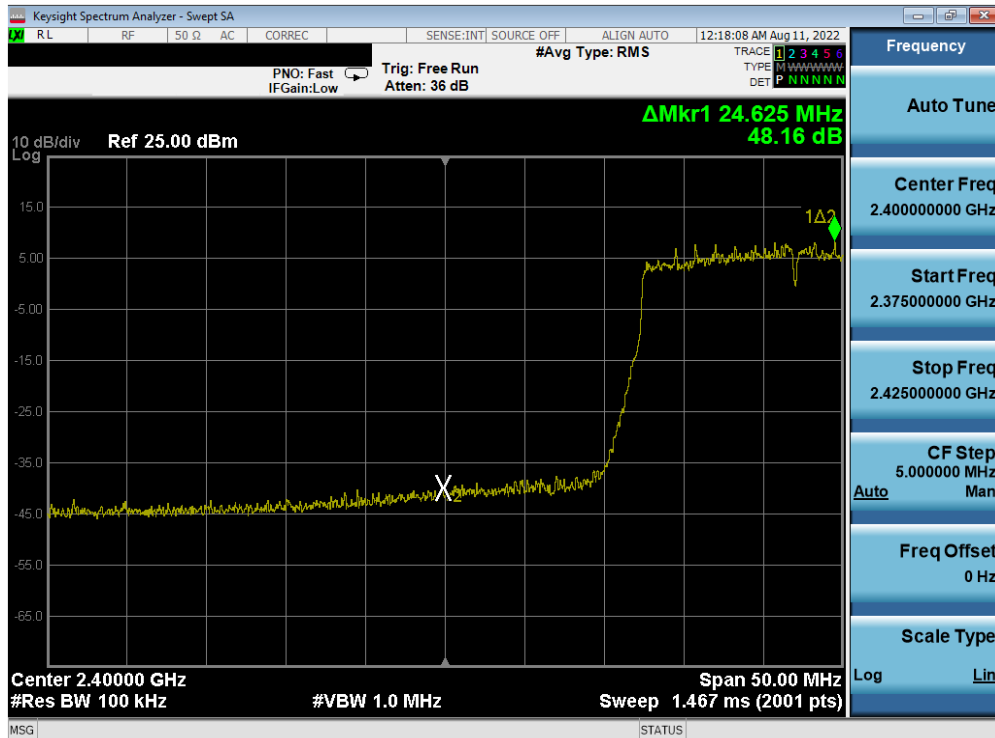
Plot 7-238. Band Edge Plot Antenna WF8 (802.11n (2.4GHz) – Ch. 13) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 168 of 430

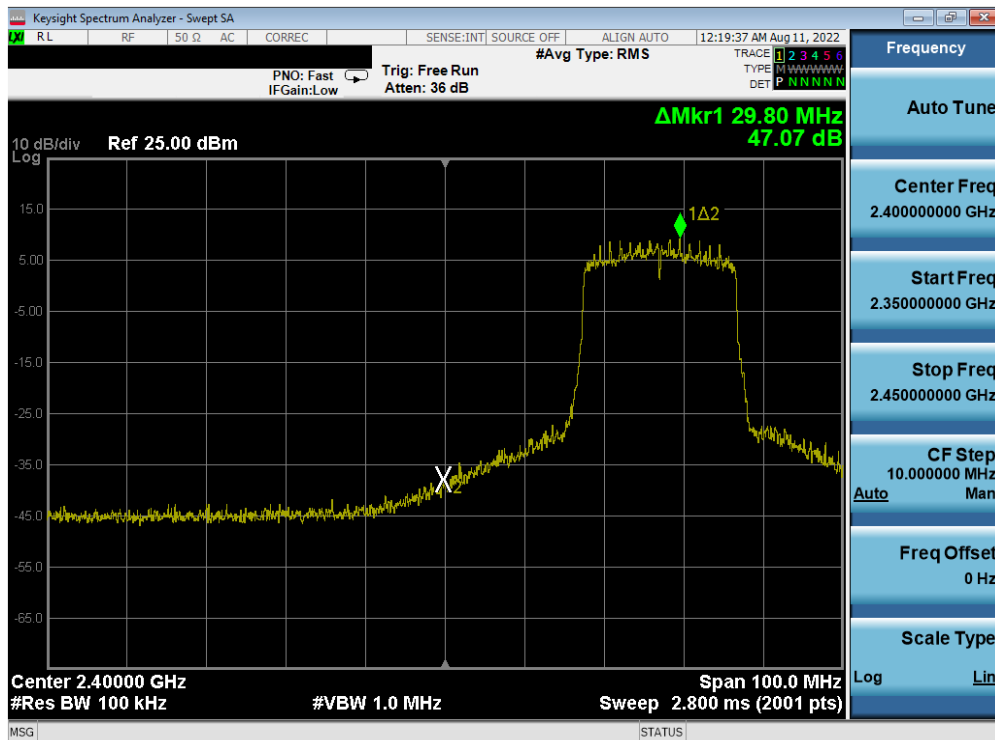
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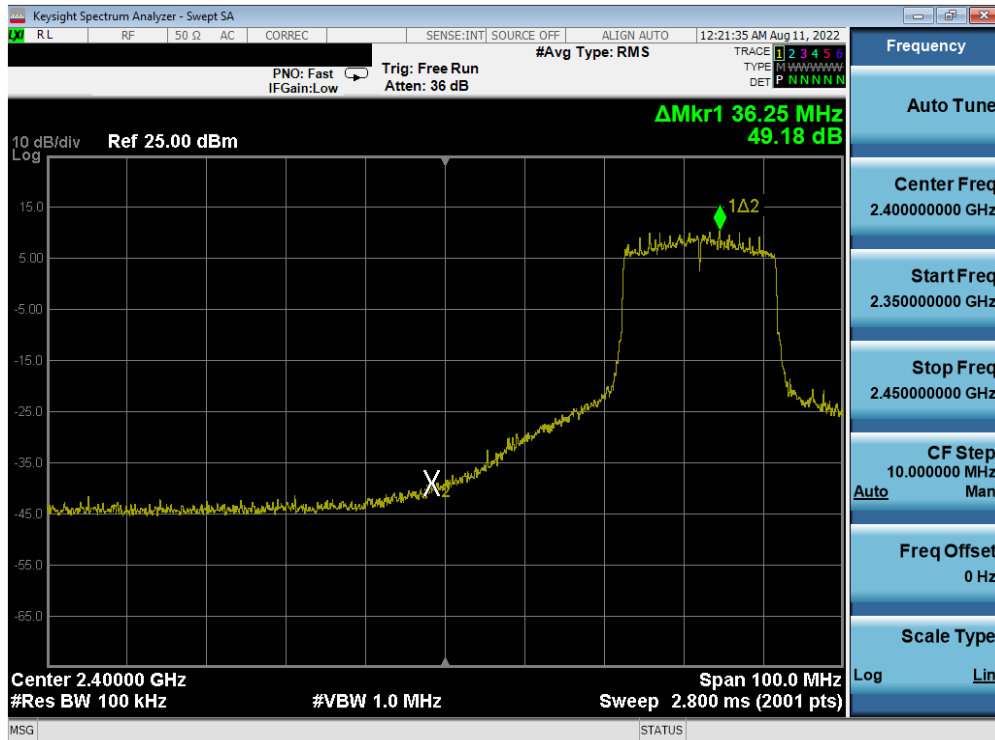


Plot 7-241. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS4

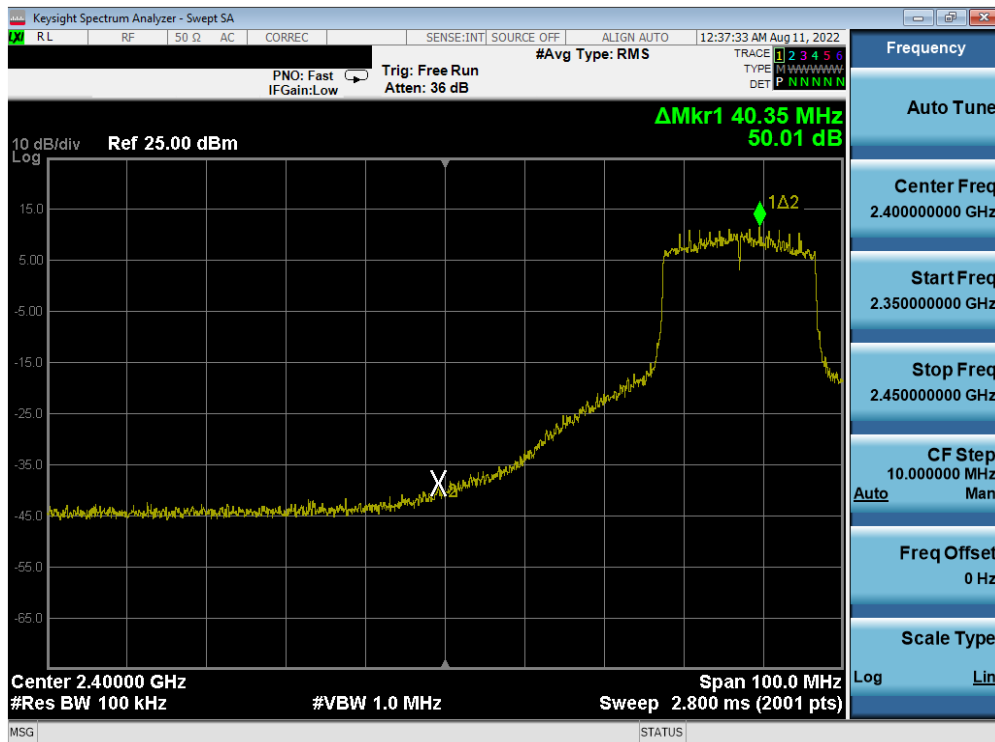


Plot 7-242. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 170 of 430



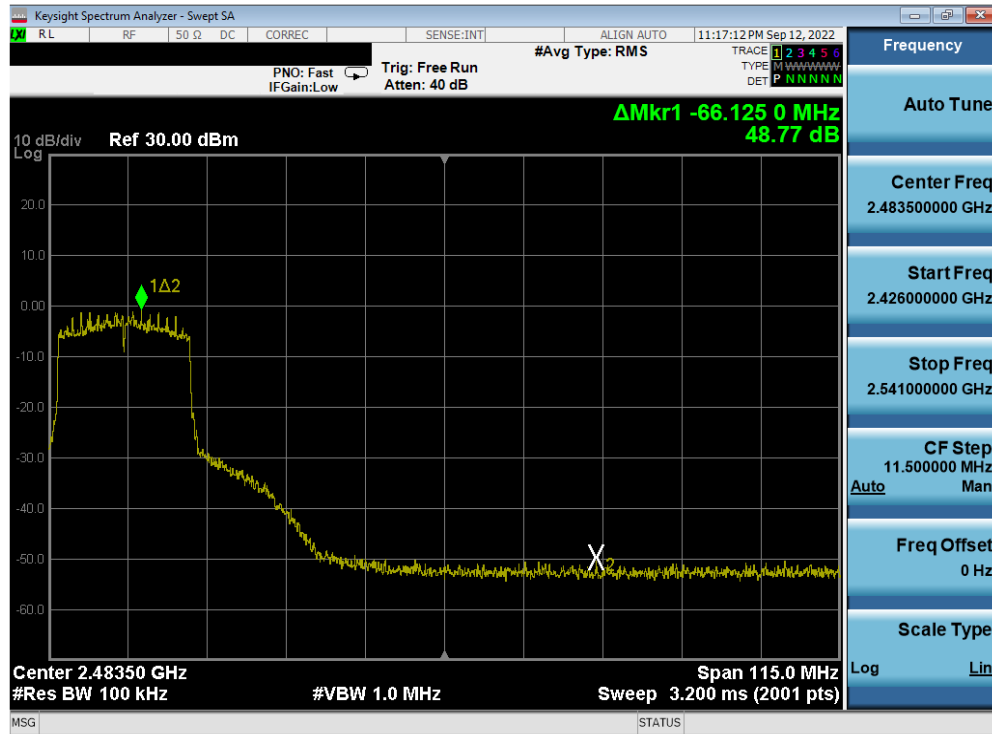
Plot 7-243. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 5) – MCS4



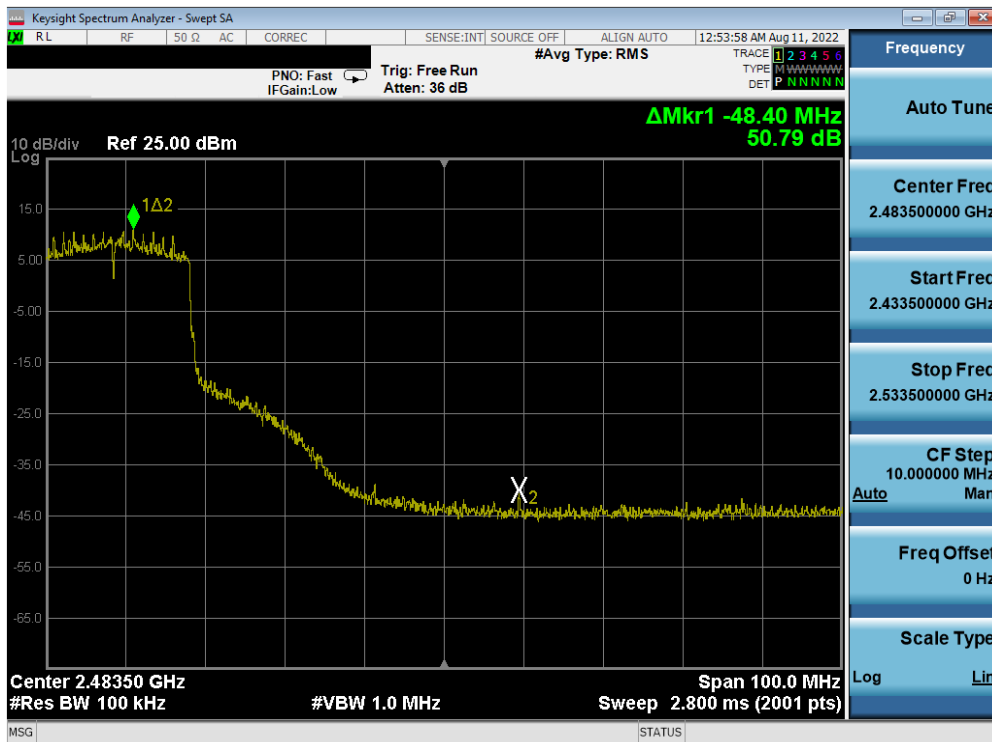
Plot 7-244. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6 (low)) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 171 of 430

V 10.5 12/15/2021



Plot 7-245. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 6 (high)) – MCS4

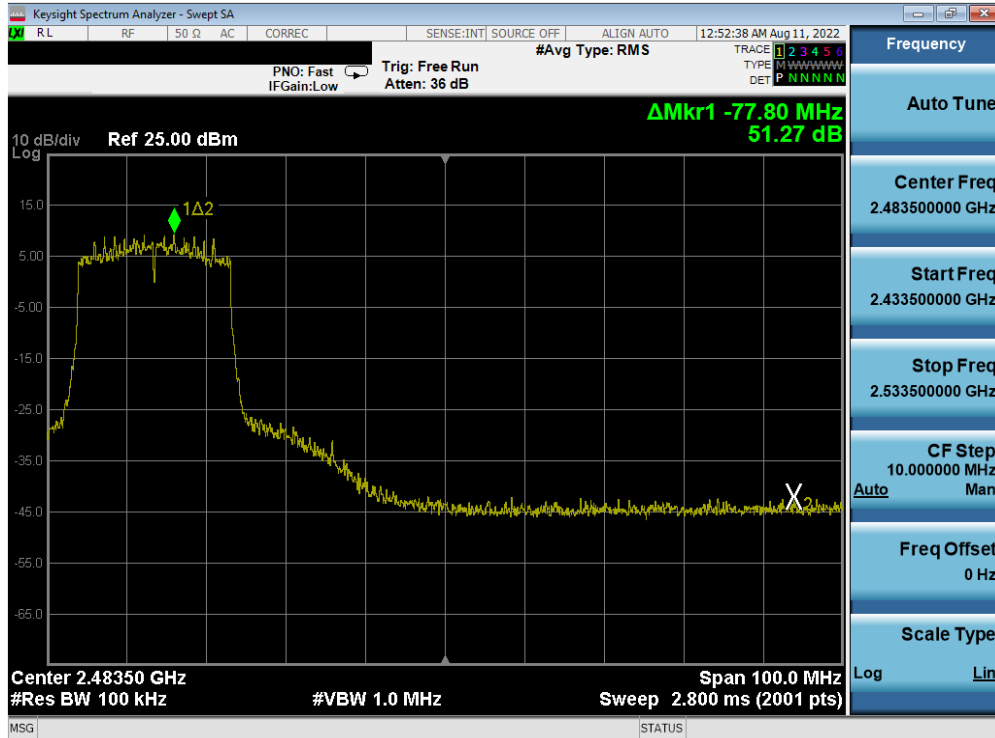


Plot 7-246. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 7) – MCS4

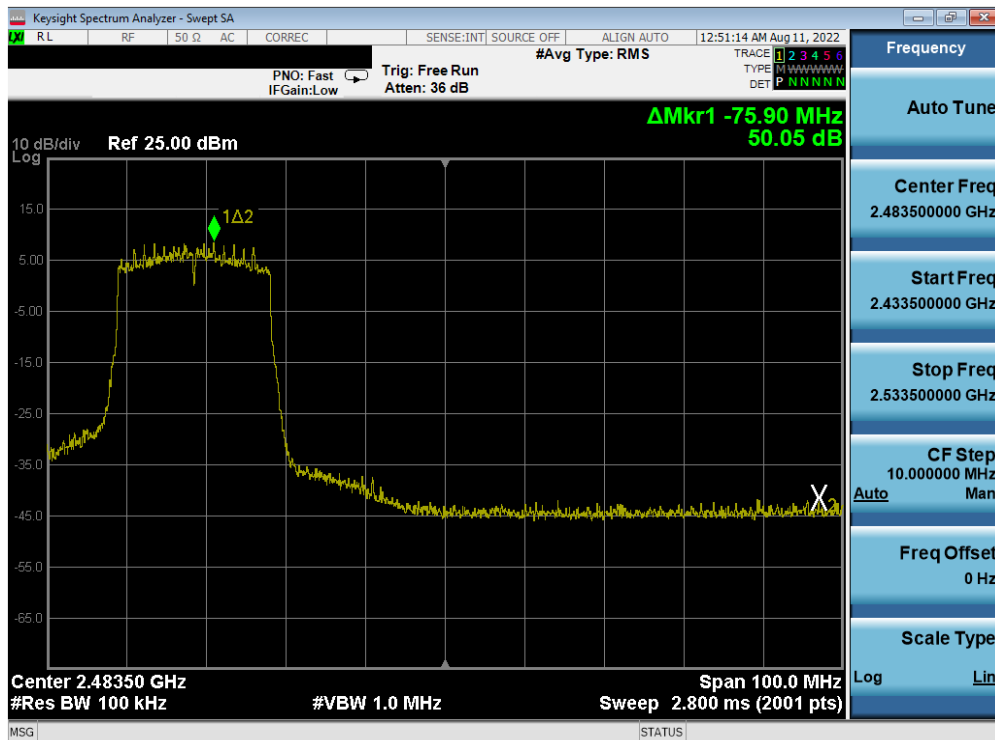
FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 172 of 430

V 10.5 12/15/2021

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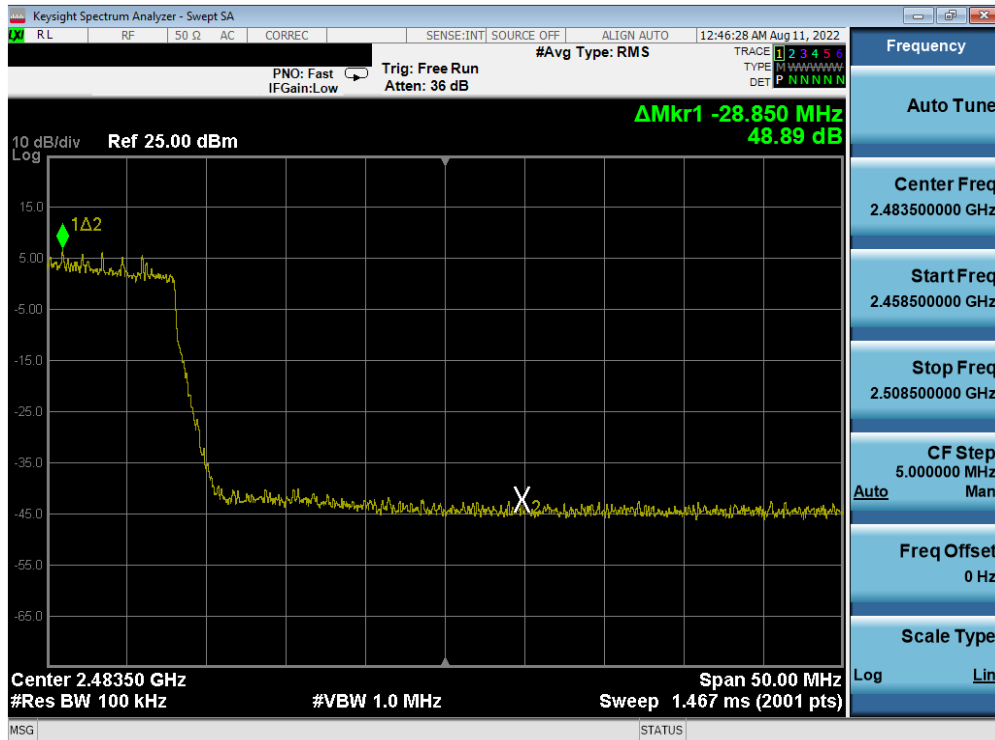


Plot 7-247. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 8) – MCS4

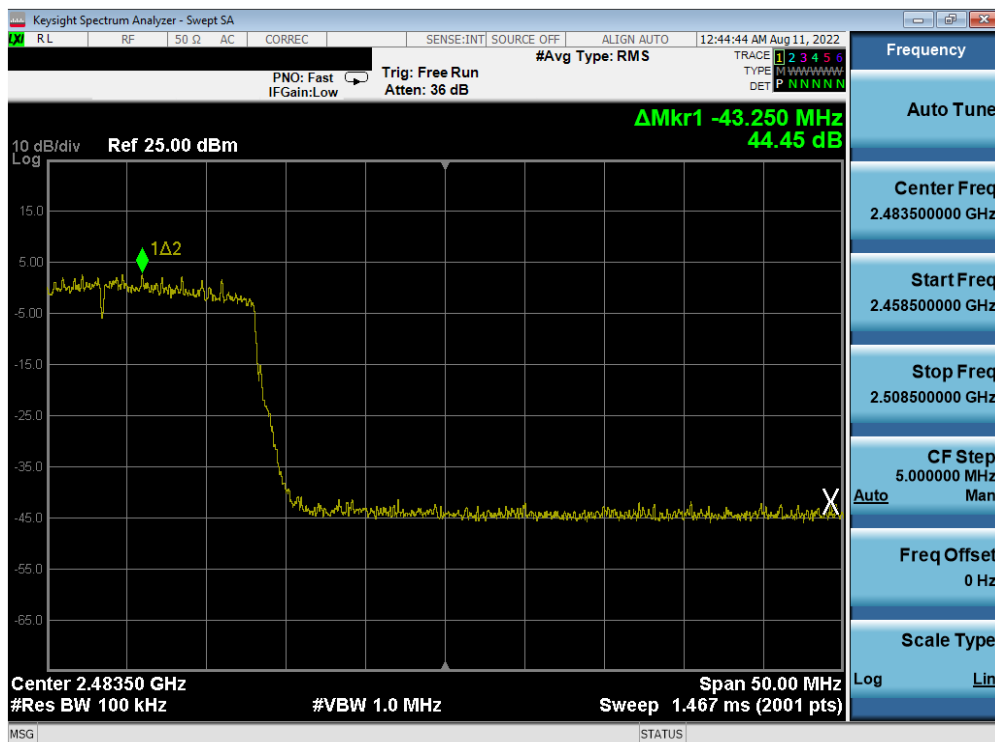


Plot 7-248. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 173 of 430

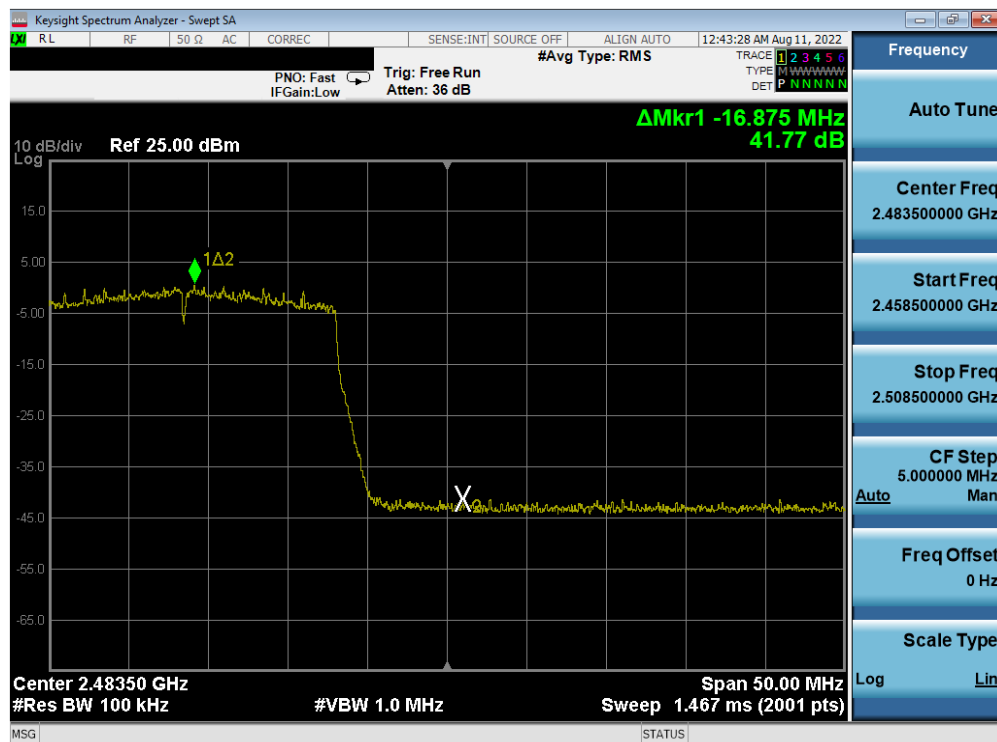


Plot 7-249. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS4



Plot 7-250. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 174 of 430

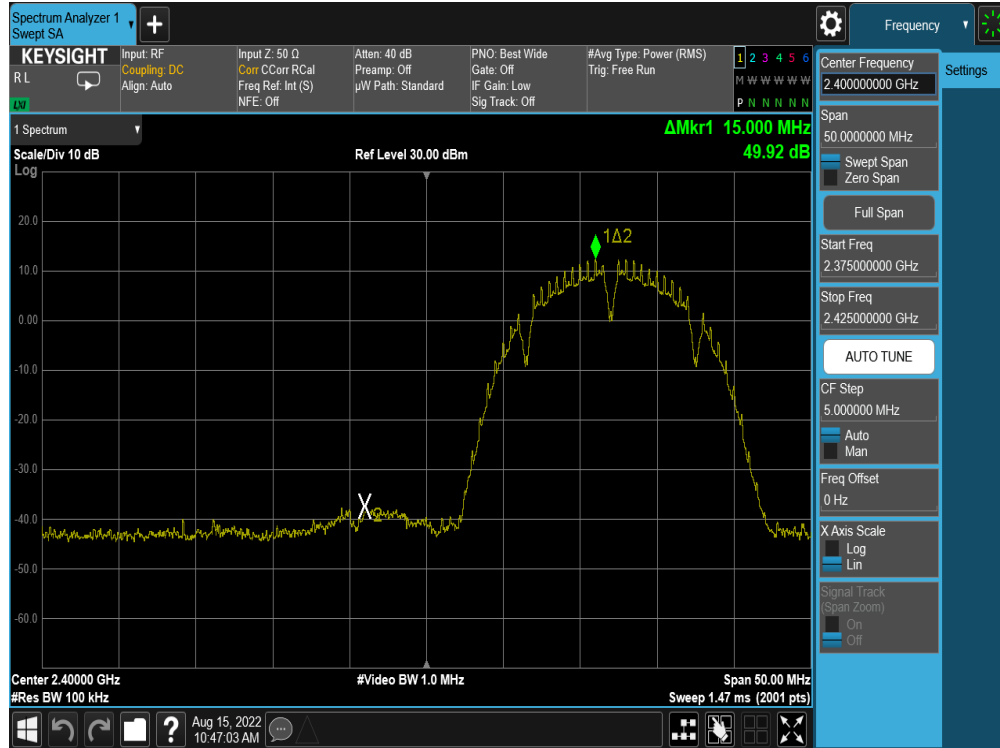


Plot 7-251. Band Edge Plot Antenna WF8 (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS4

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 175 of 430

V 10.5 12/15/2021

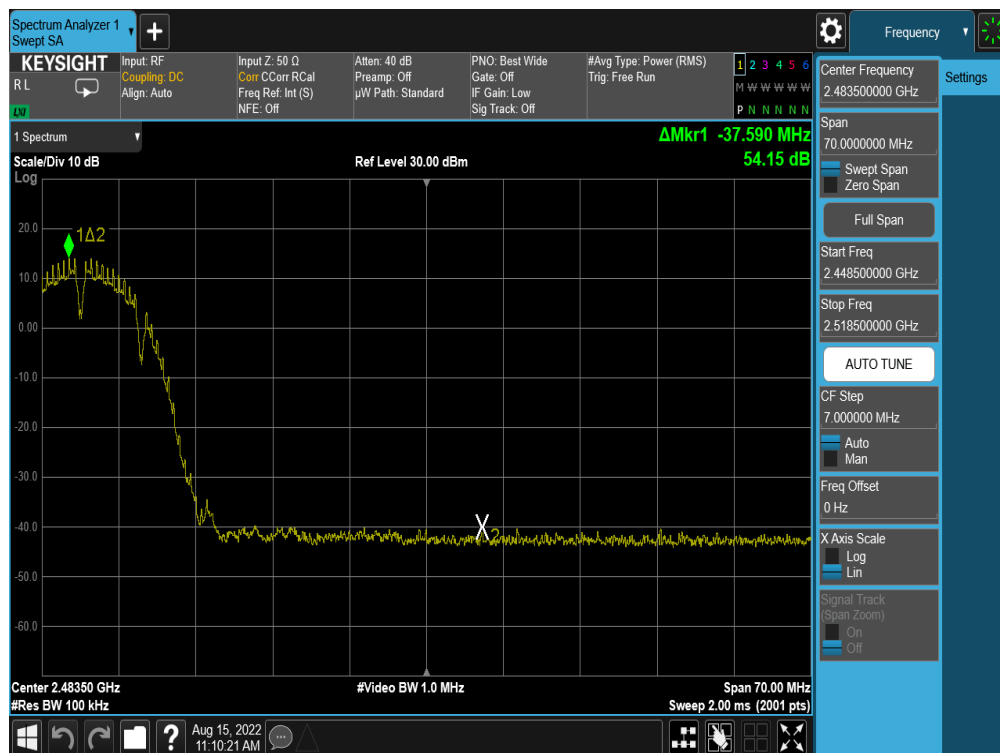
High Data Rate



FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 176 of 430

V 10.5 12/15/2021

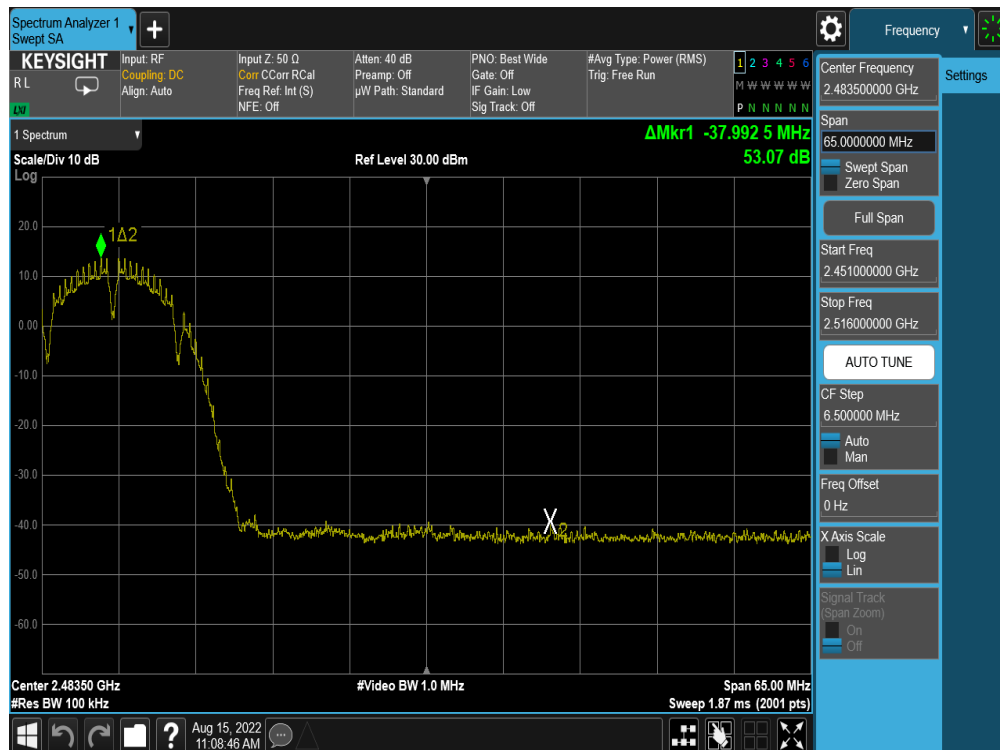
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Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 177 of 430

V 10.5 12/15/2021

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Plot 7-256. Band Edge Plot Antenna WF8 (802.11b – Ch. 10) – 11Mbps



Plot 7-257. Band Edge Plot Antenna WF8 (802.11b – Ch. 11) – 11Mbps

FCC ID: BCGA2696 IC: 579C-A2696		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090022-01.BCG	Test Dates: 05/30/2022 - 09/15/2022	EUT Type: Tablet Device	Page 178 of 430

V 10.5 12/15/2021

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