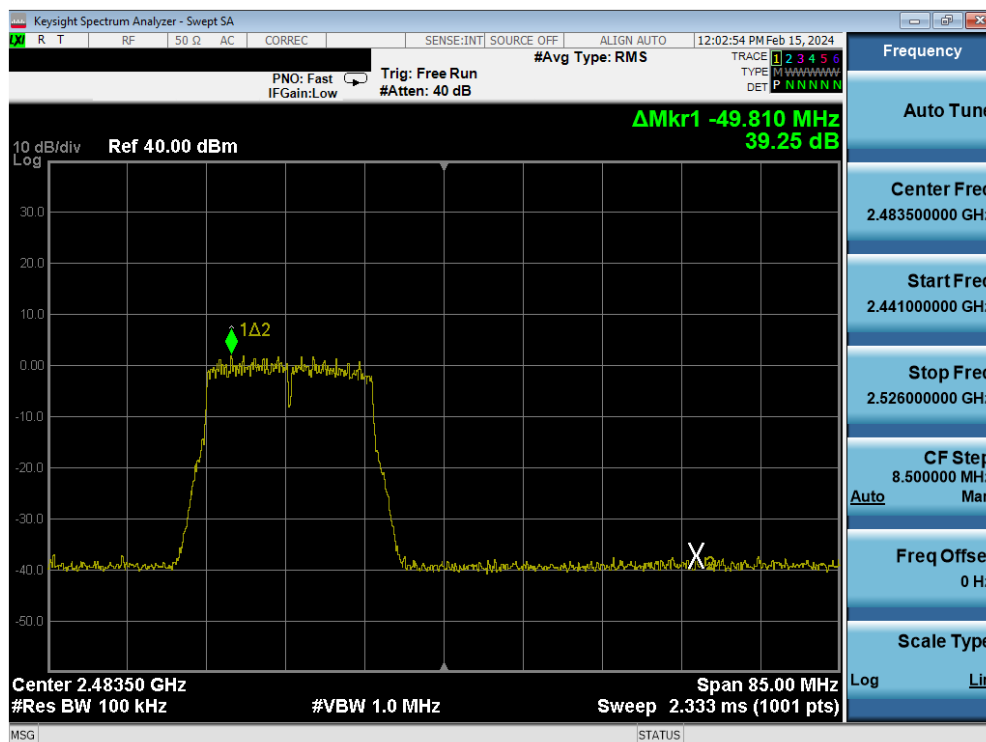
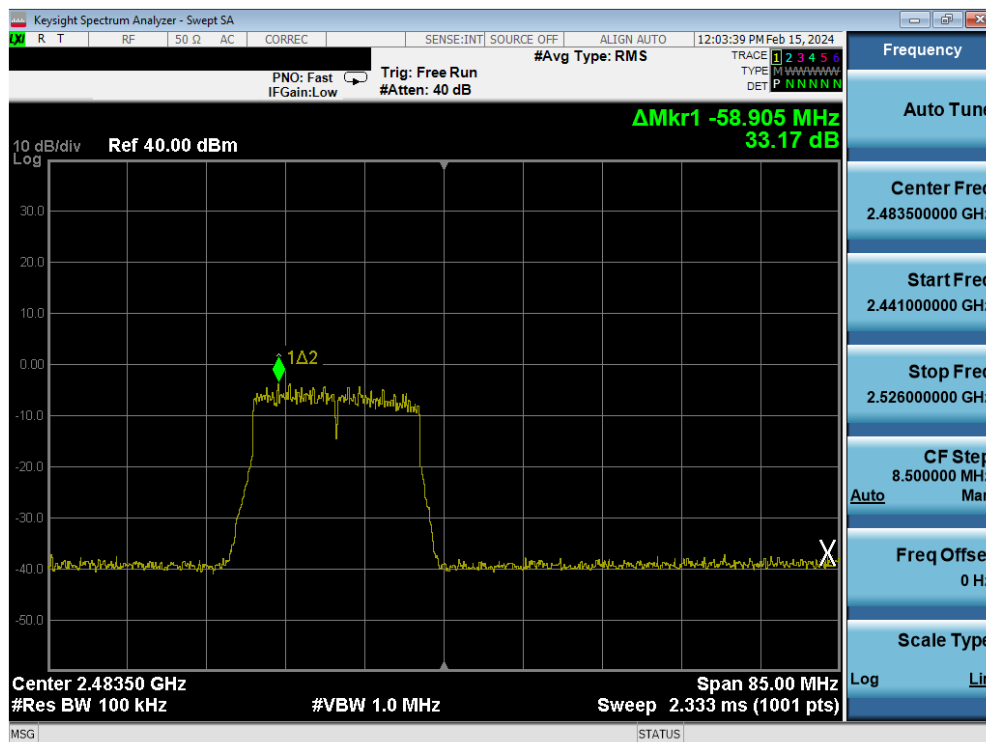




Plot 7-259. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 12) - MCS7

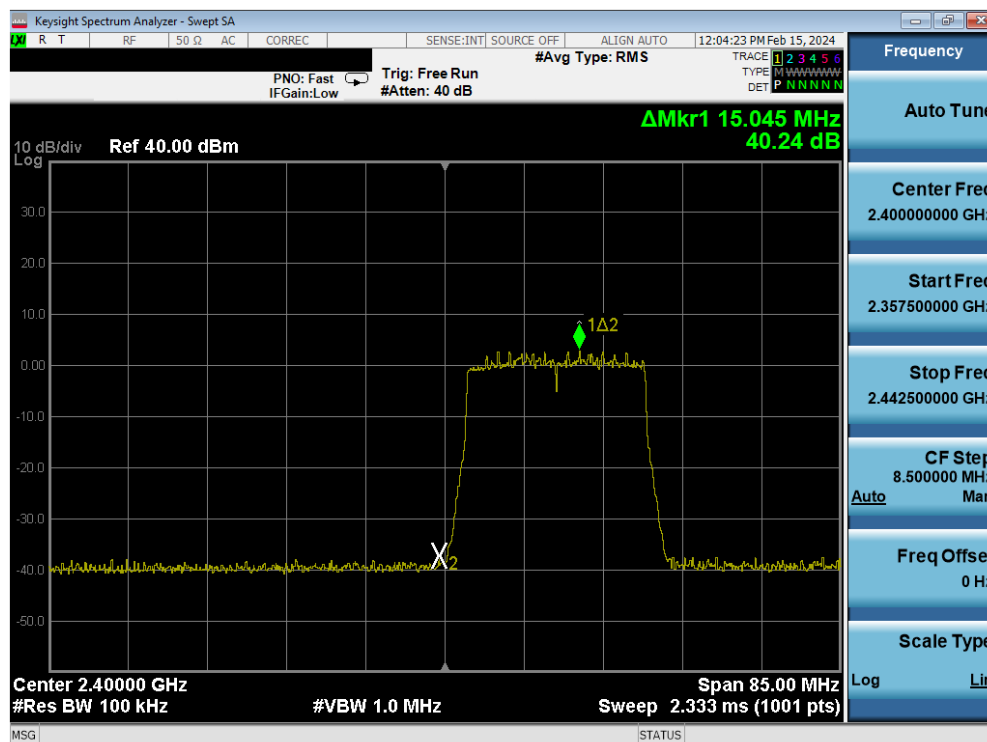


Plot 7-260. Band Edge Plot Antenna 4a (802.11n (2.4GHz) - Ch. 13) - MCS7

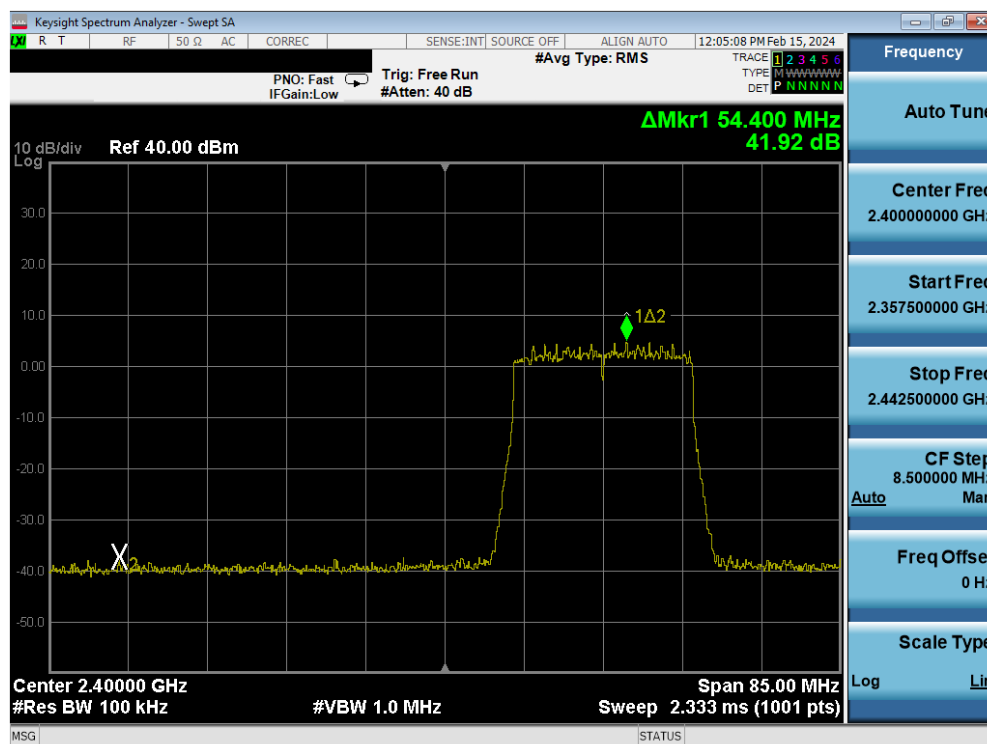
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 173 of 372

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Plot 7-261. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9

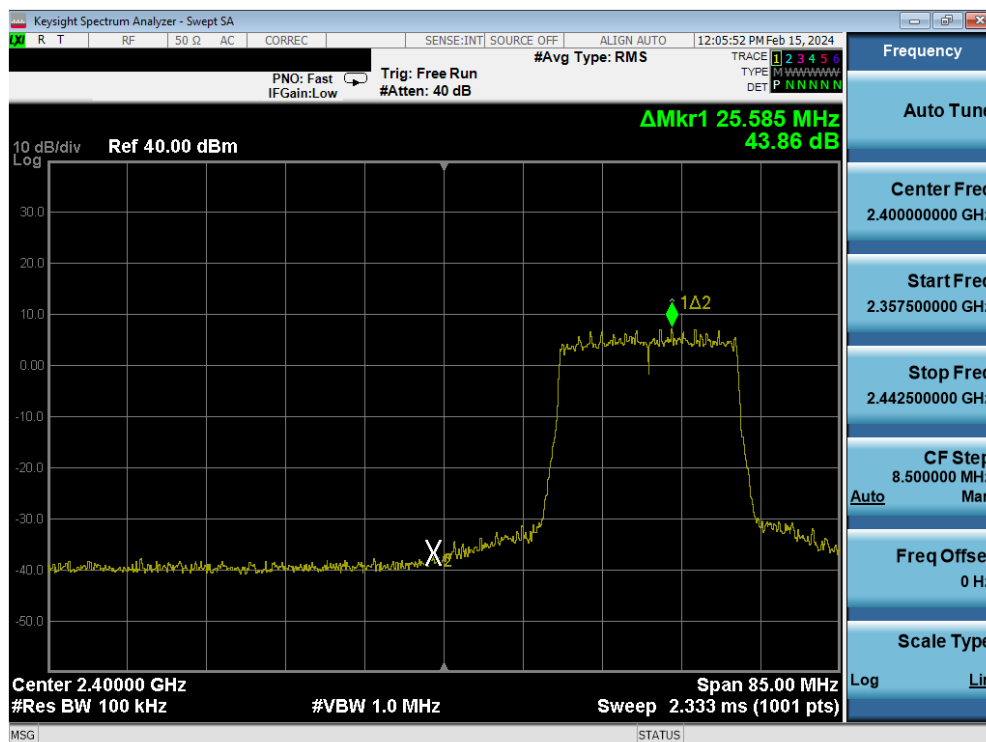


Plot 7-262. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS9

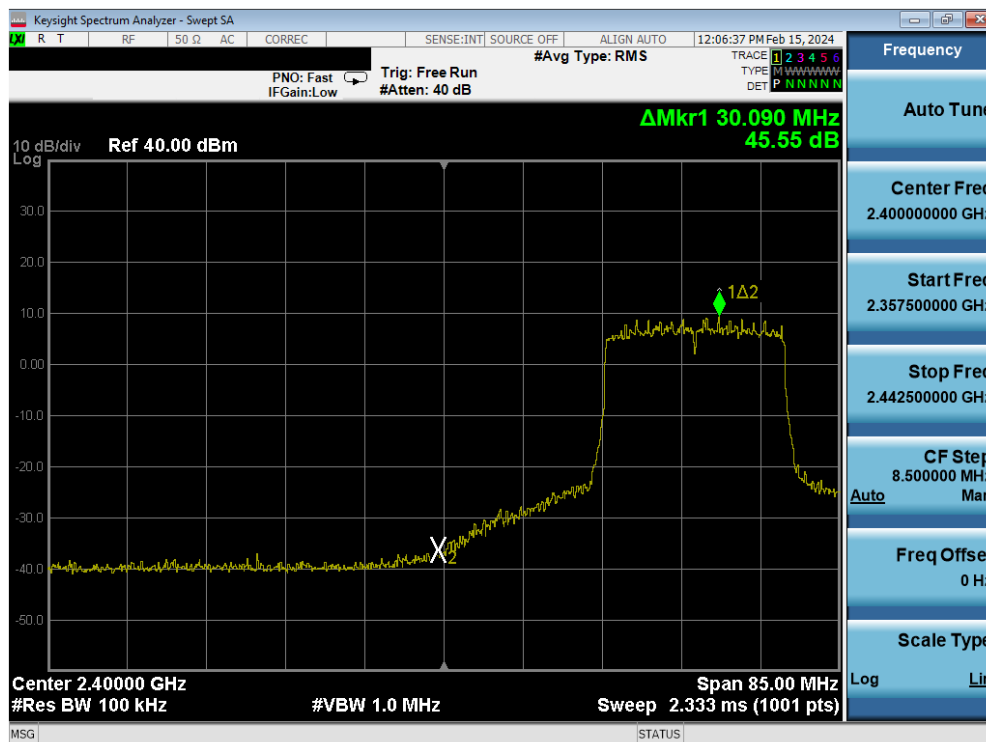
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 174 of 372

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Plot 7-263. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS9

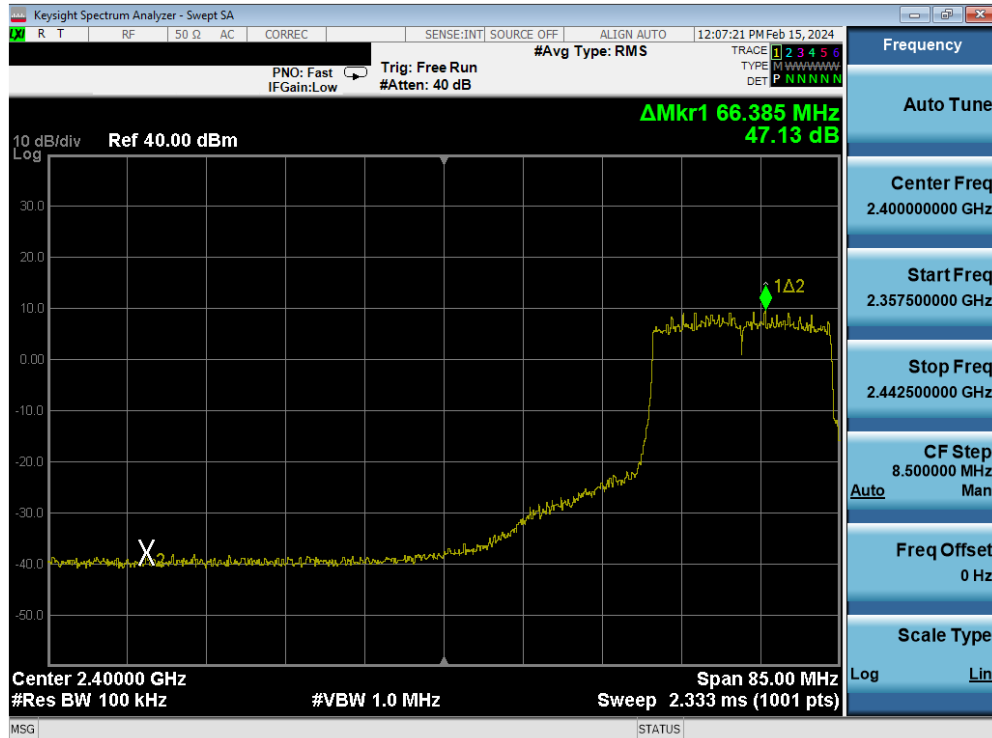


Plot 7-264. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS9

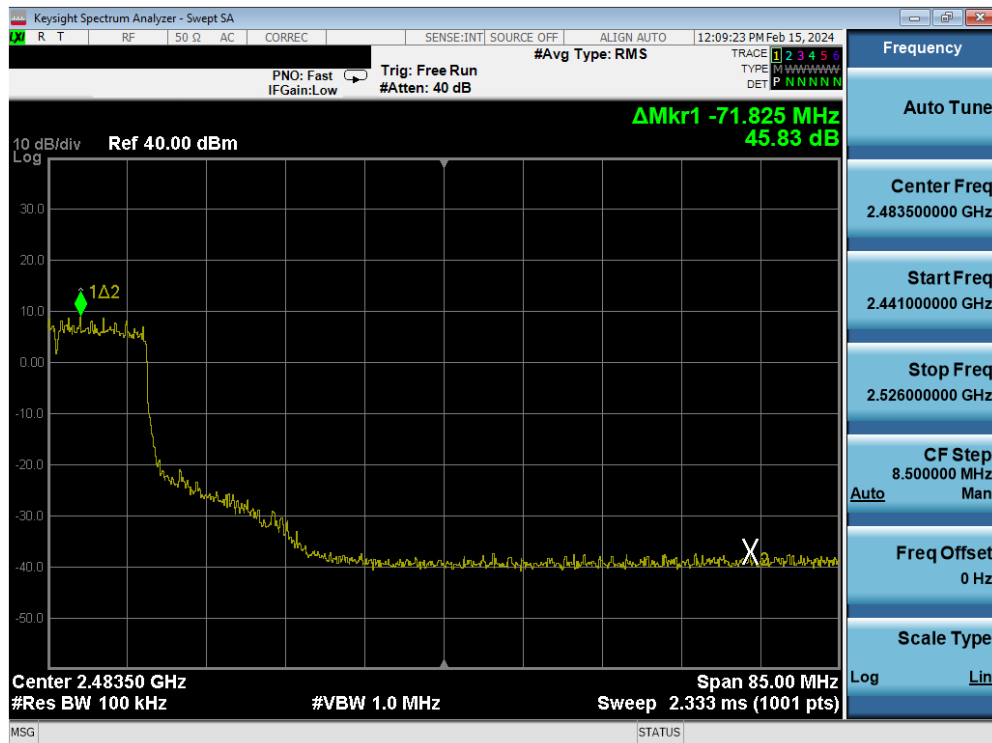
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 175 of 372

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Plot 7-265. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 5) – MCS9

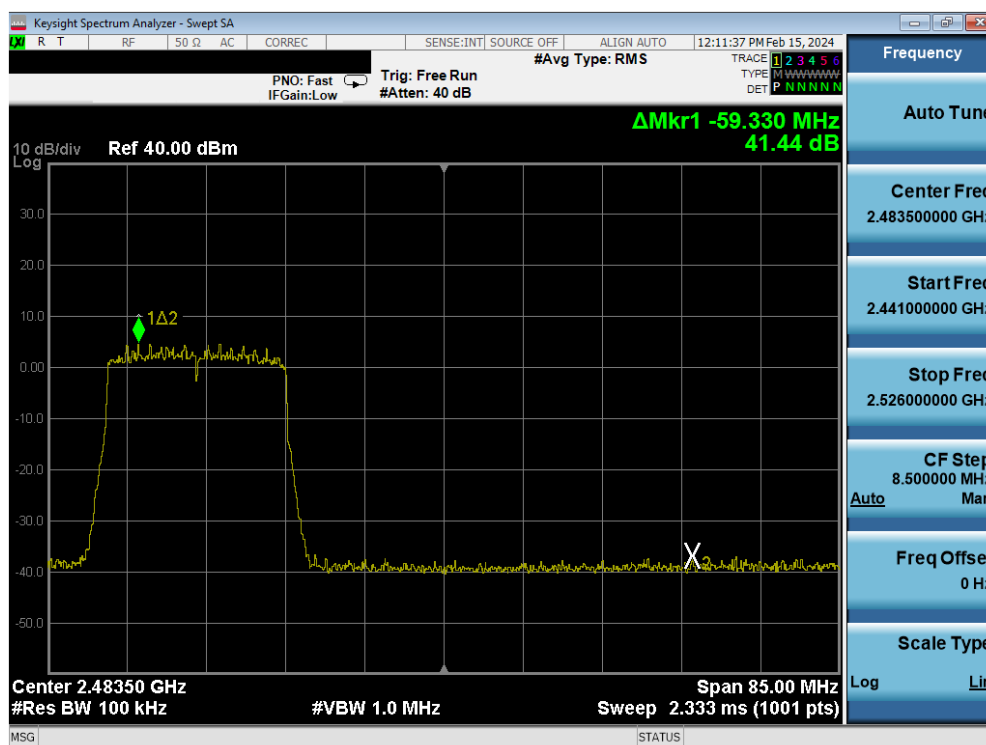


Plot 7-266. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 7) – MCS9

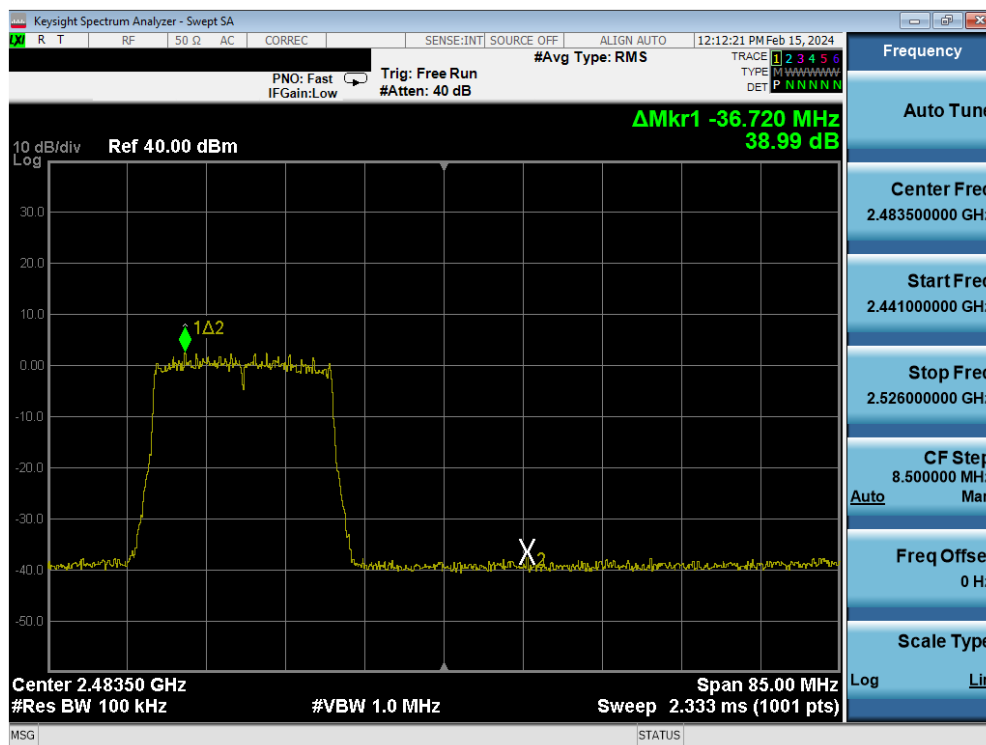
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 176 of 372

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Plot 7-269. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS9

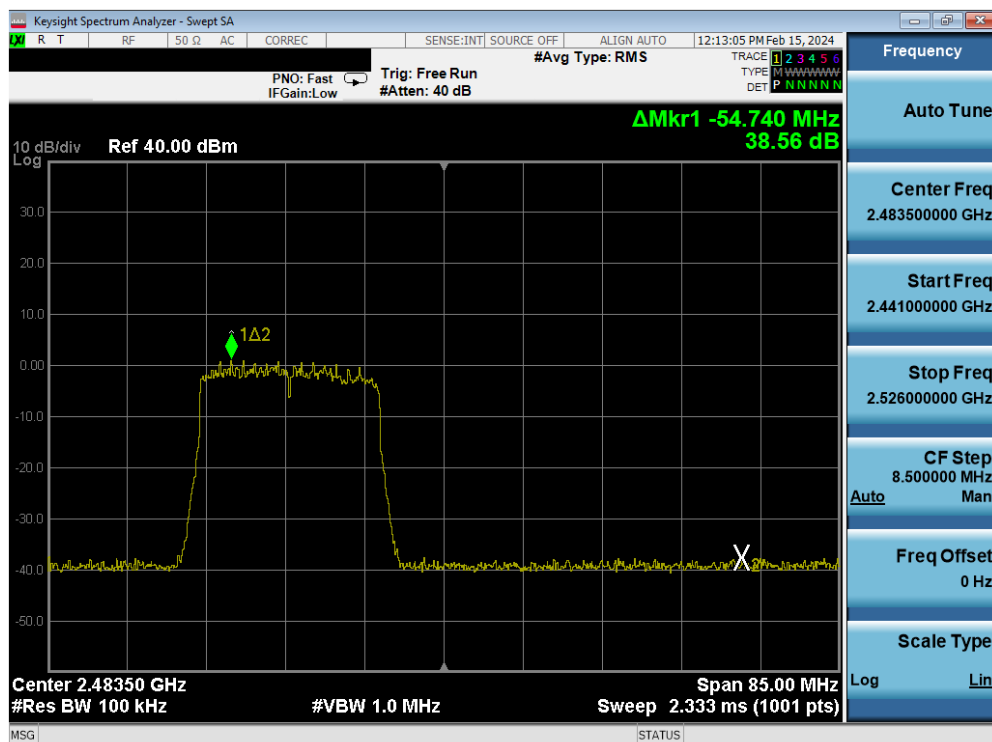


Plot 7-270. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 178 of 372

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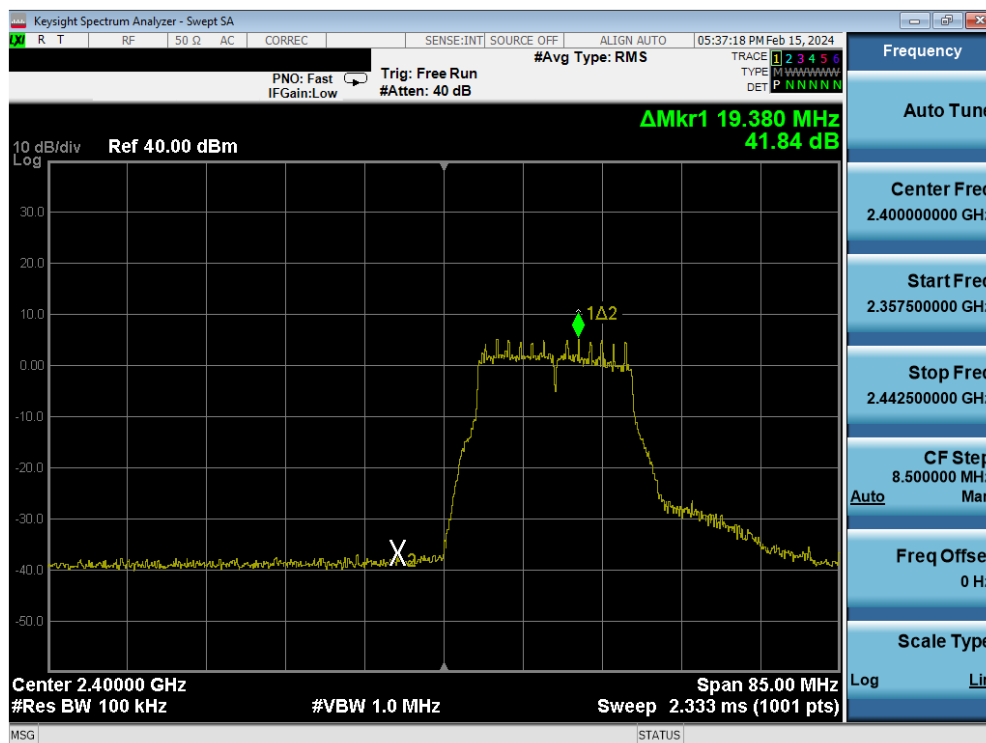
Plot 7-271. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS9

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 179 of 372

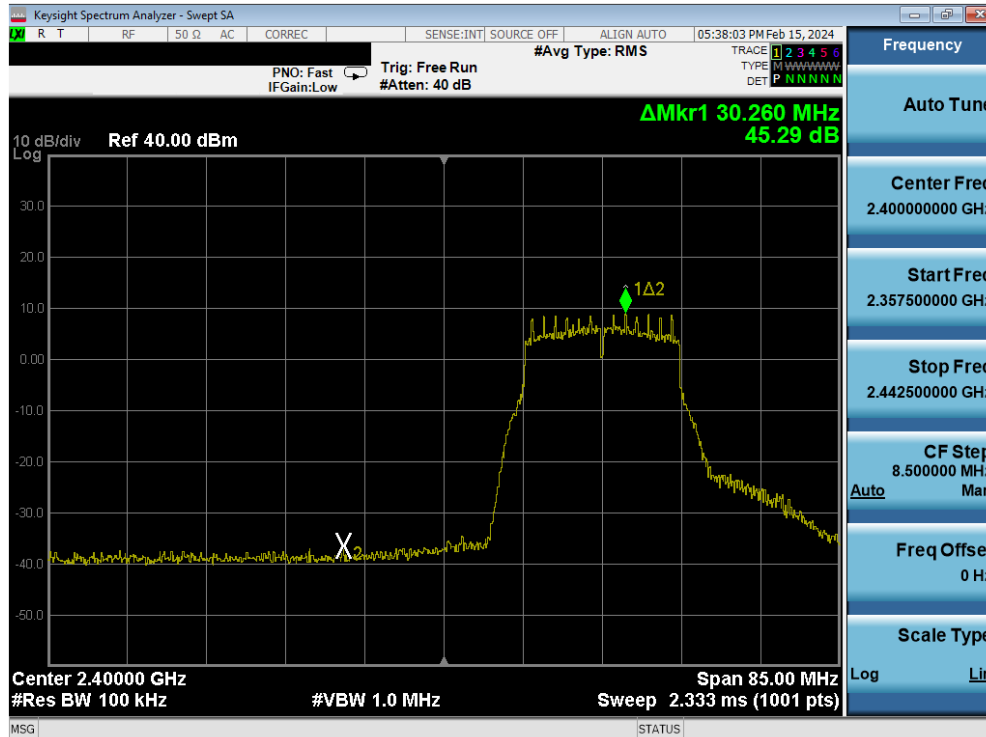
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7.5.2 Antenna 2a Conducted Emissions at the Band Edge

Low Rate



Plot 7-272. Band Edge Plot Antenna 2a (802.11g - Ch. 1) - 12Mbps

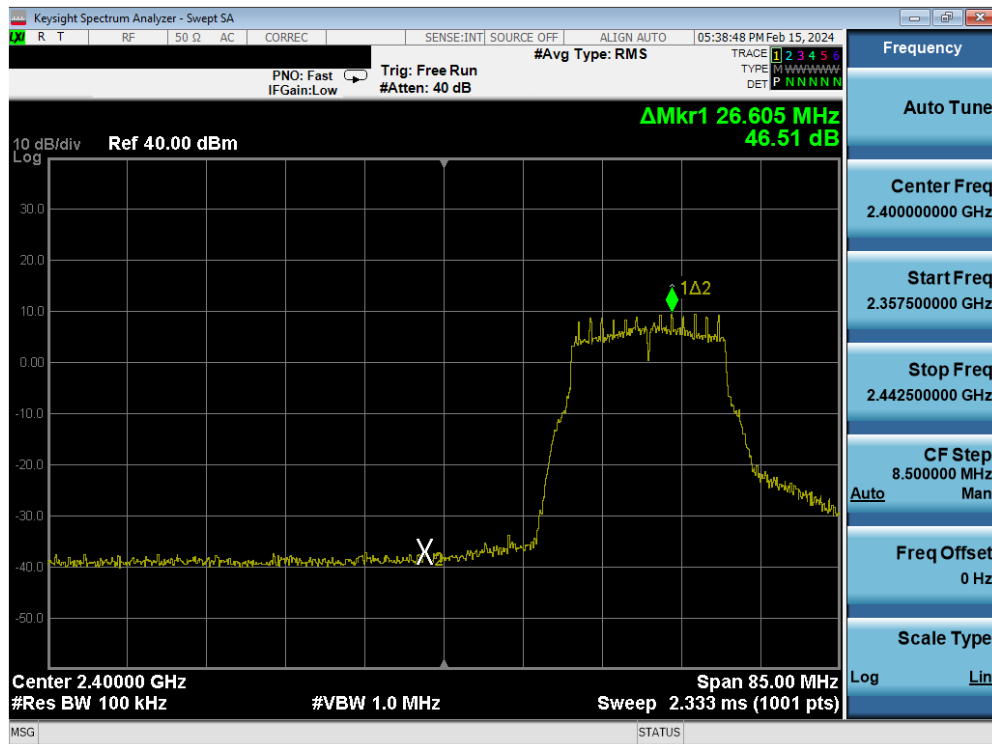


Plot 7-273. Band Edge Plot Antenna 2a (802.11g - Ch. 2) - 12Mbps

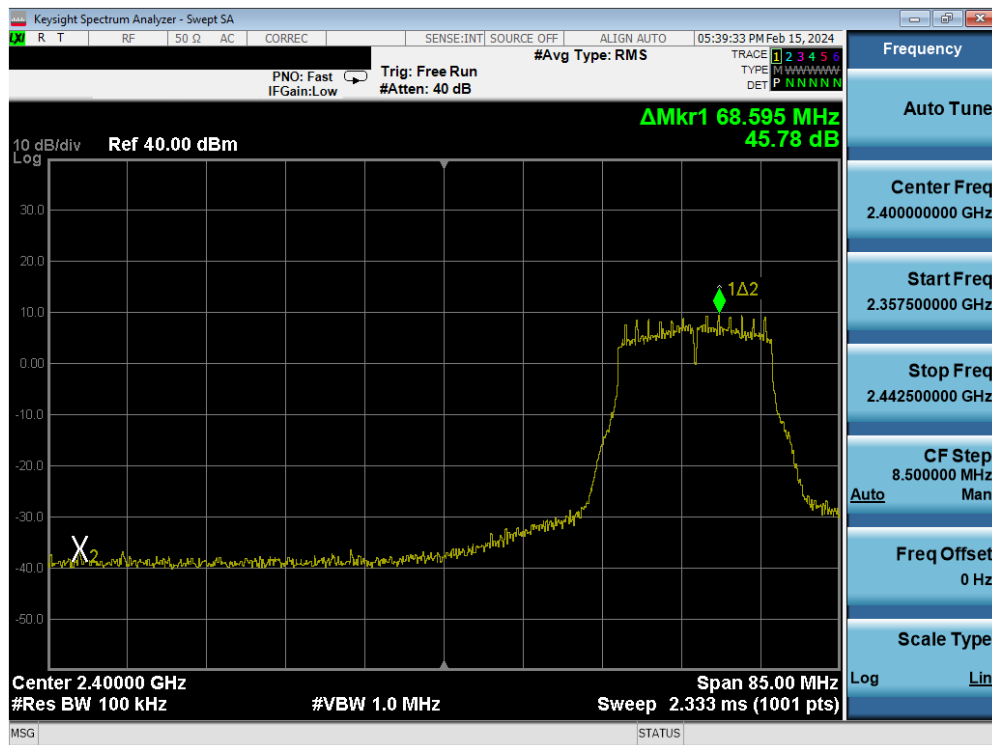
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 180 of 372

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Plot 7-274. Band Edge Plot Antenna 2a (802.11g – Ch. 3) – 12Mbps

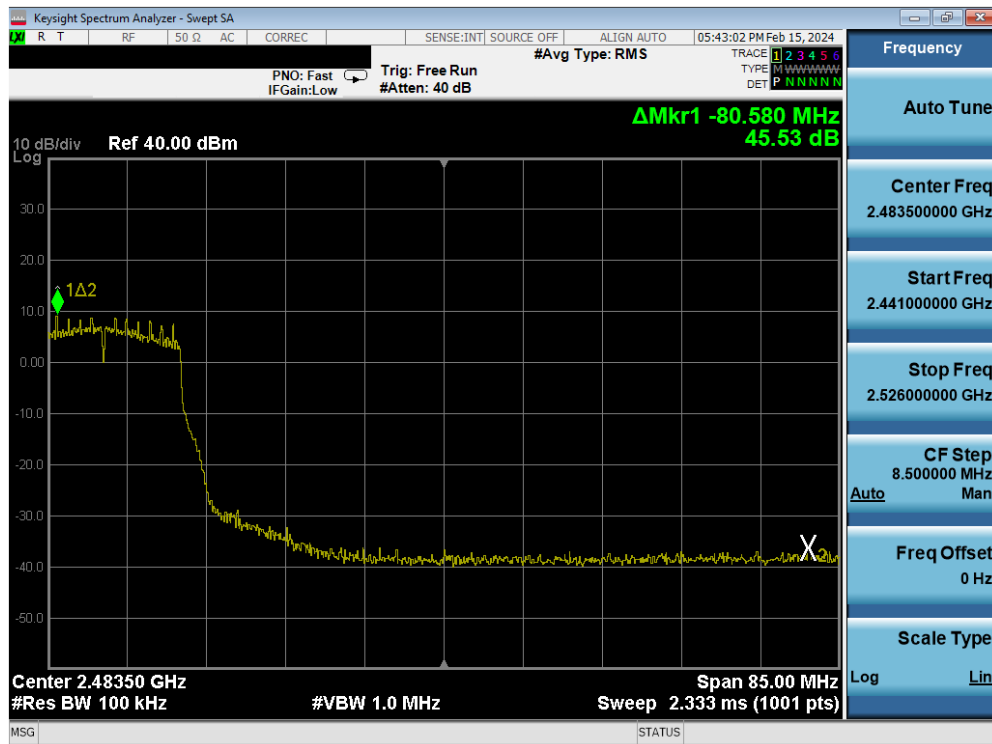


Plot 7-275. Band Edge Plot Antenna 2a (802.11g – Ch. 4) – 12Mbps

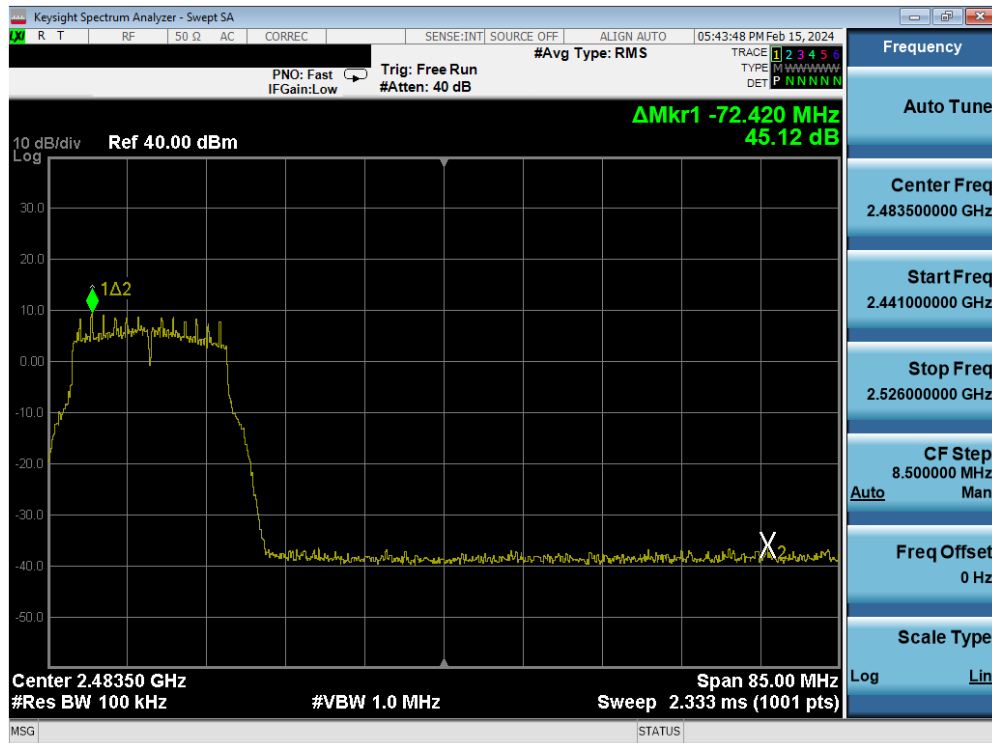
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 181 of 372

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Plot 7-276. Band Edge Plot Antenna 2a (802.11g - Ch. 8) - 12Mbps

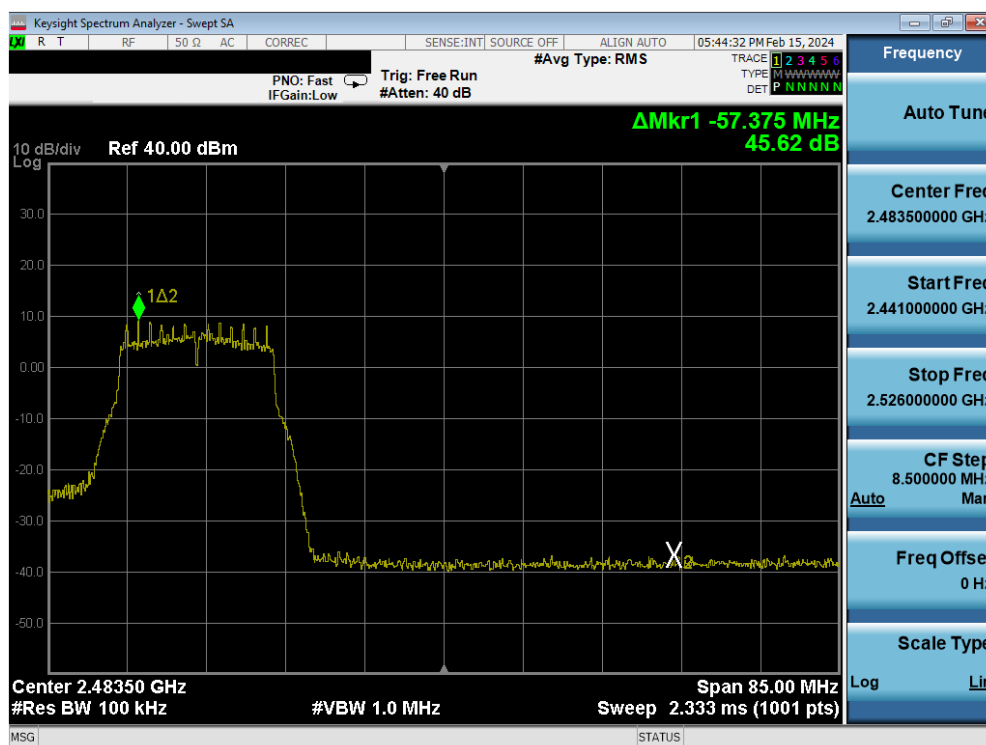


Plot 7-277. Band Edge Plot Antenna 2a (802.11g - Ch. 9) - 12Mbps

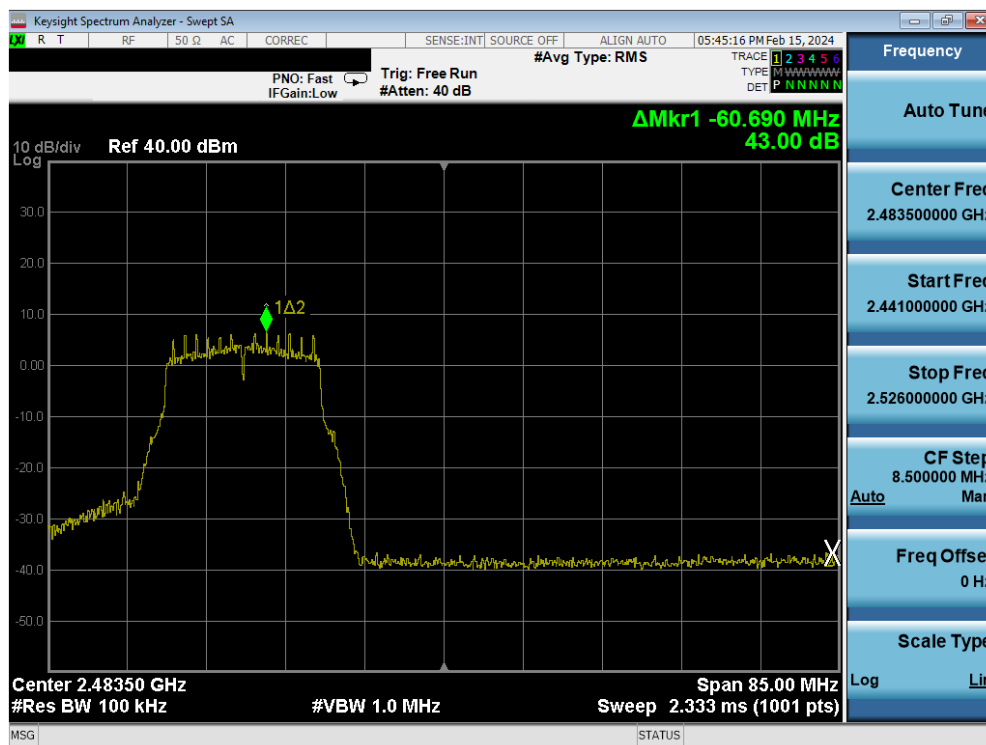
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 182 of 372

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Plot 7-278. Band Edge Plot Antenna 2a (802.11g – Ch. 10) – 12Mbps

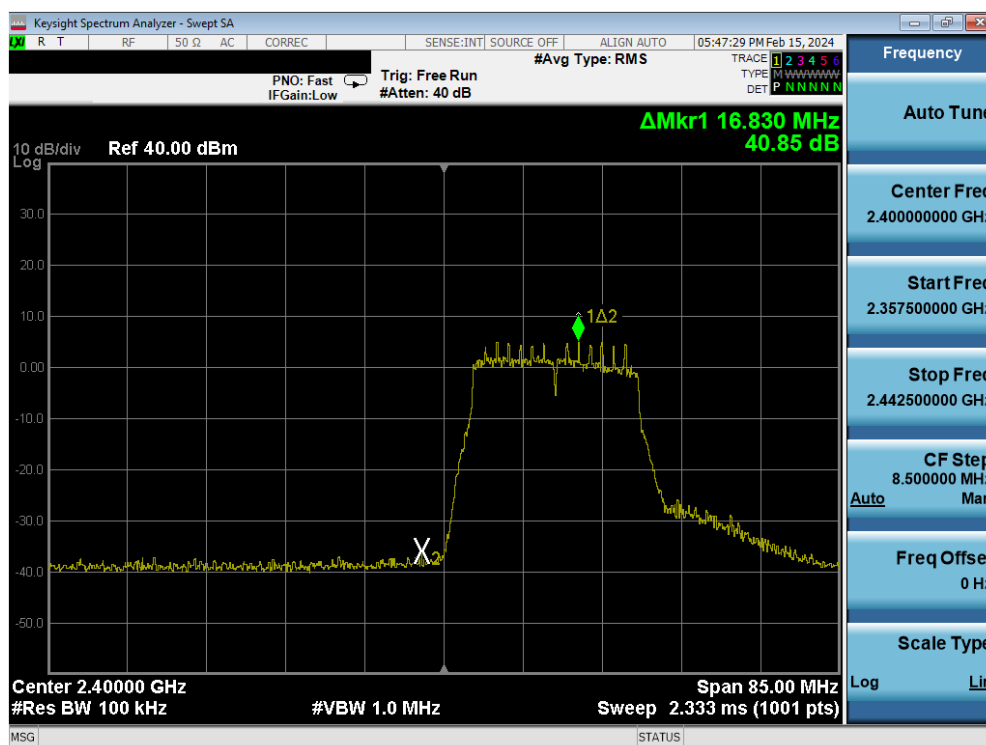


Plot 7-279. Band Edge Plot Antenna 2a (802.11g – Ch. 11) – 12Mbps

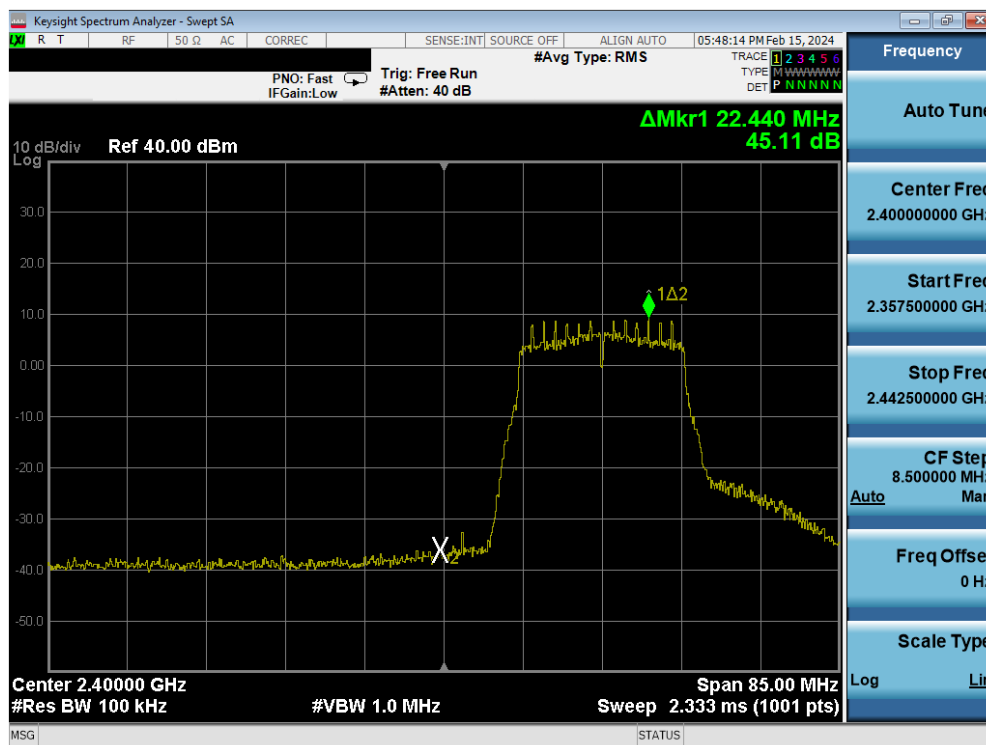
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 183 of 372

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Plot 7-282. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS2

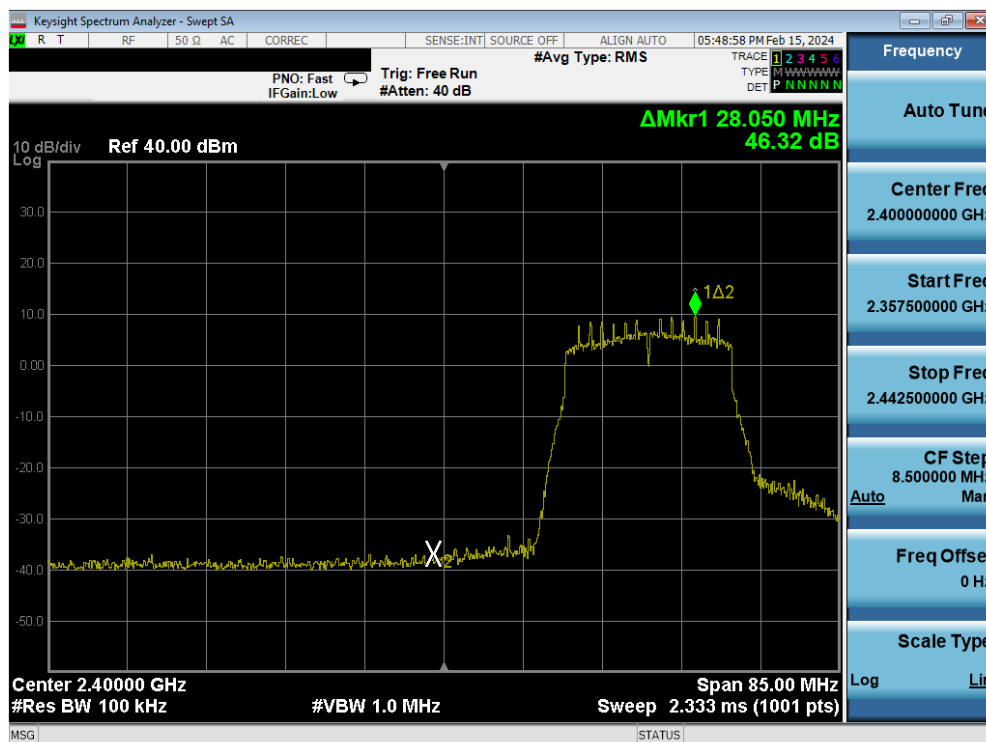


Plot 7-283. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS2

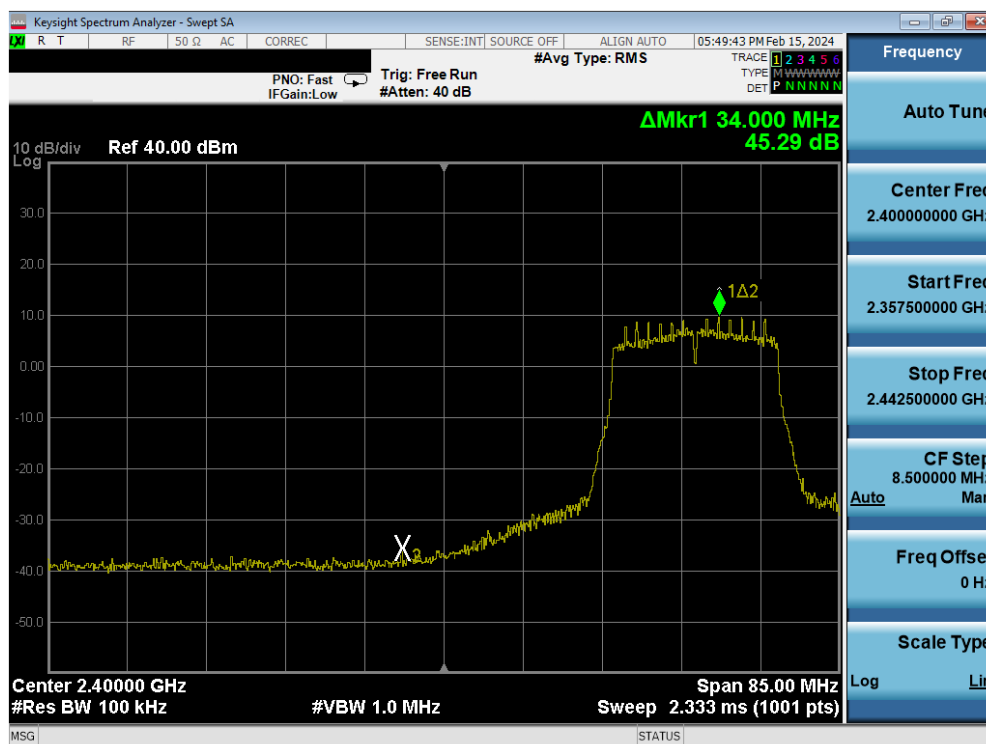
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 185 of 372

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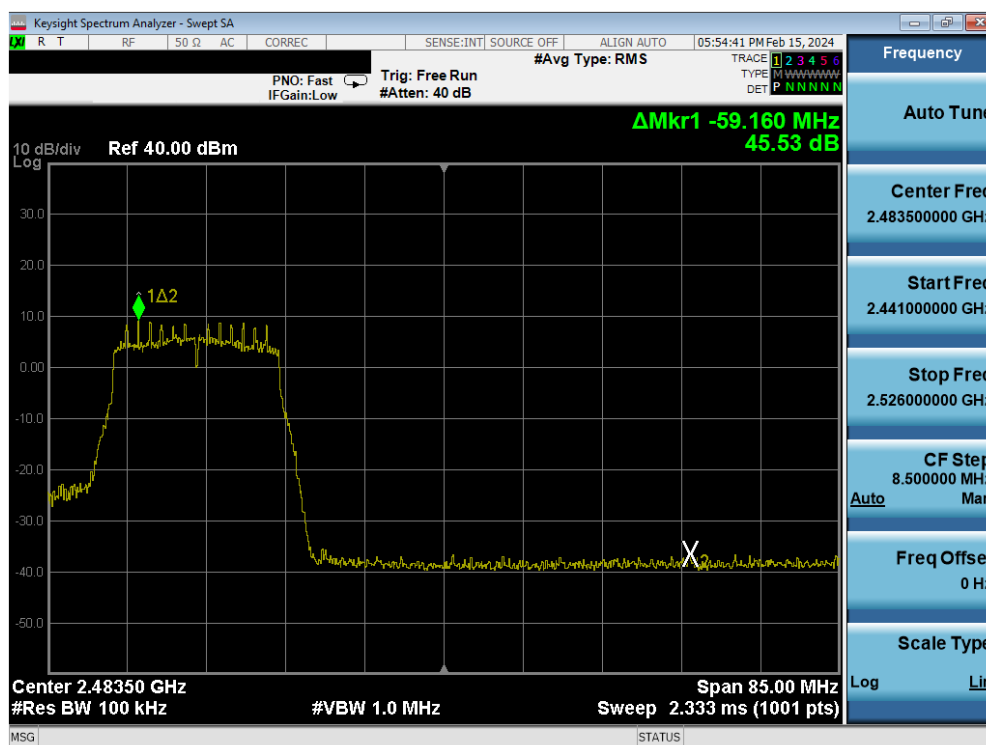
Plot 7-284. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 3) – MCS2



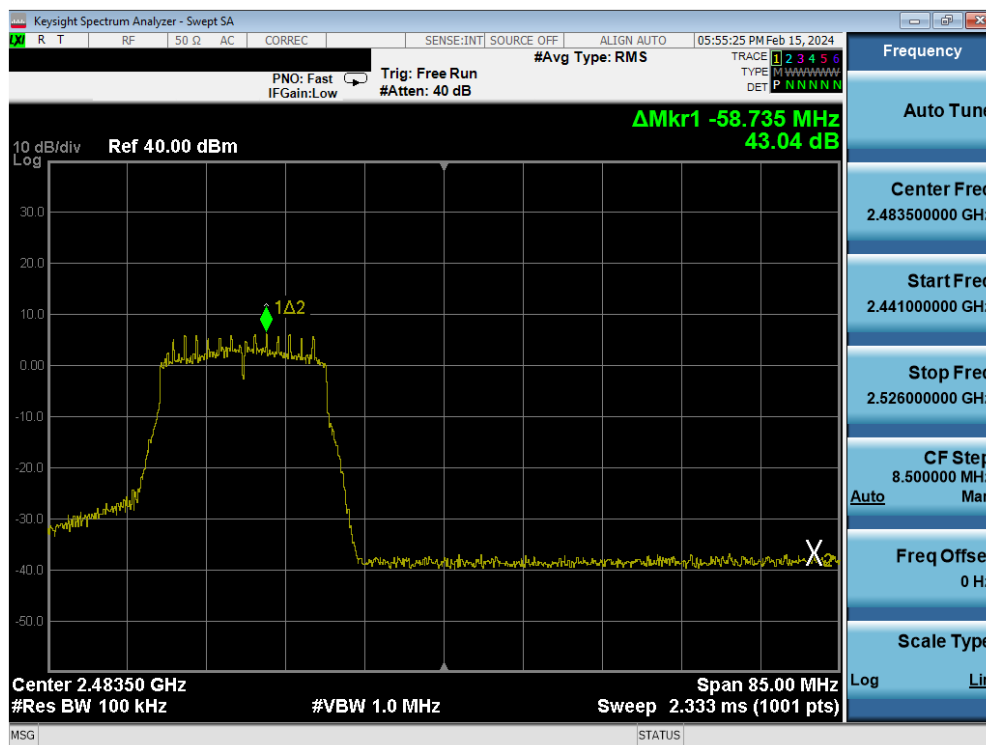
Plot 7-285. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 4) – MCS2

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 186 of 372

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Plot 7-288. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 10) - MCS2

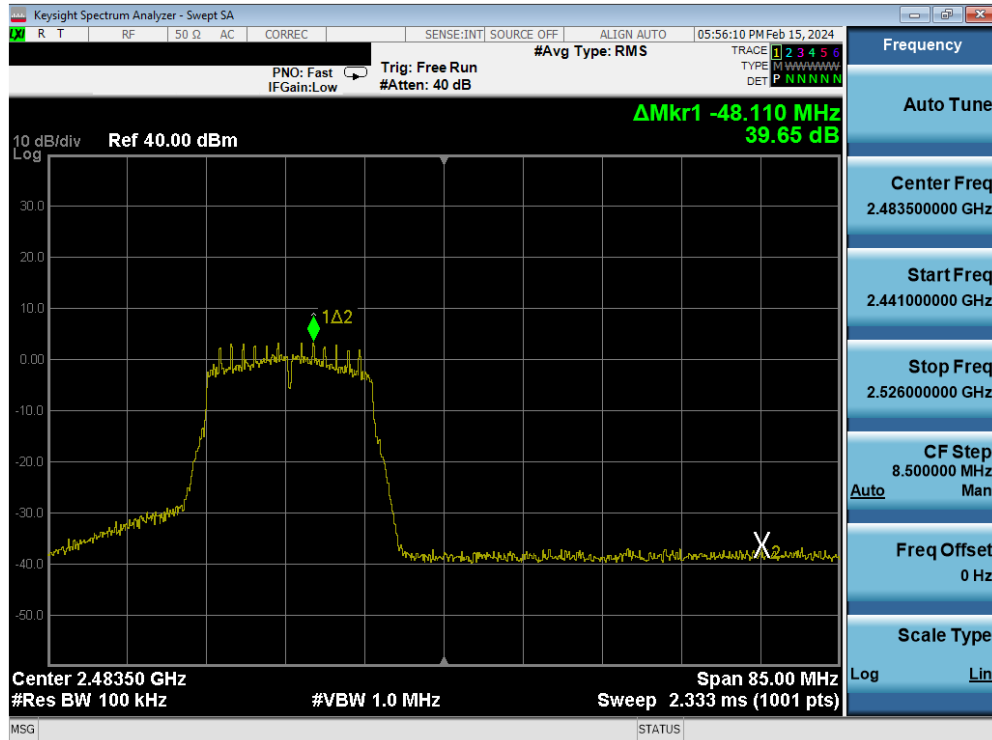


Plot 7-289. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS2

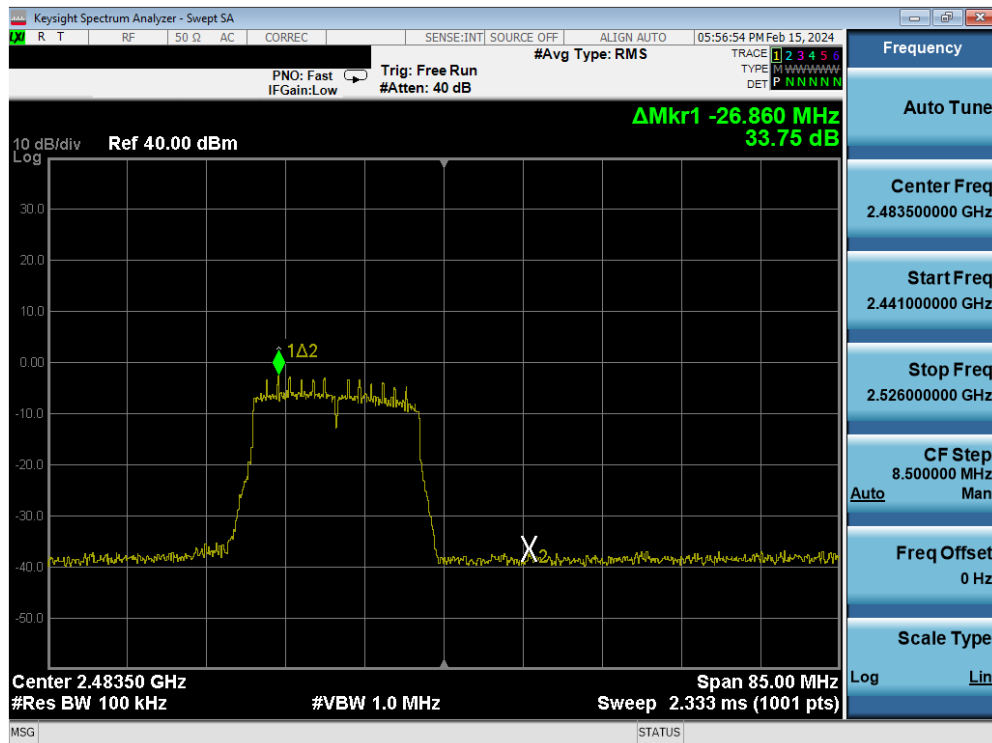
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 188 of 372

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Plot 7-290. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 12) - MCS2

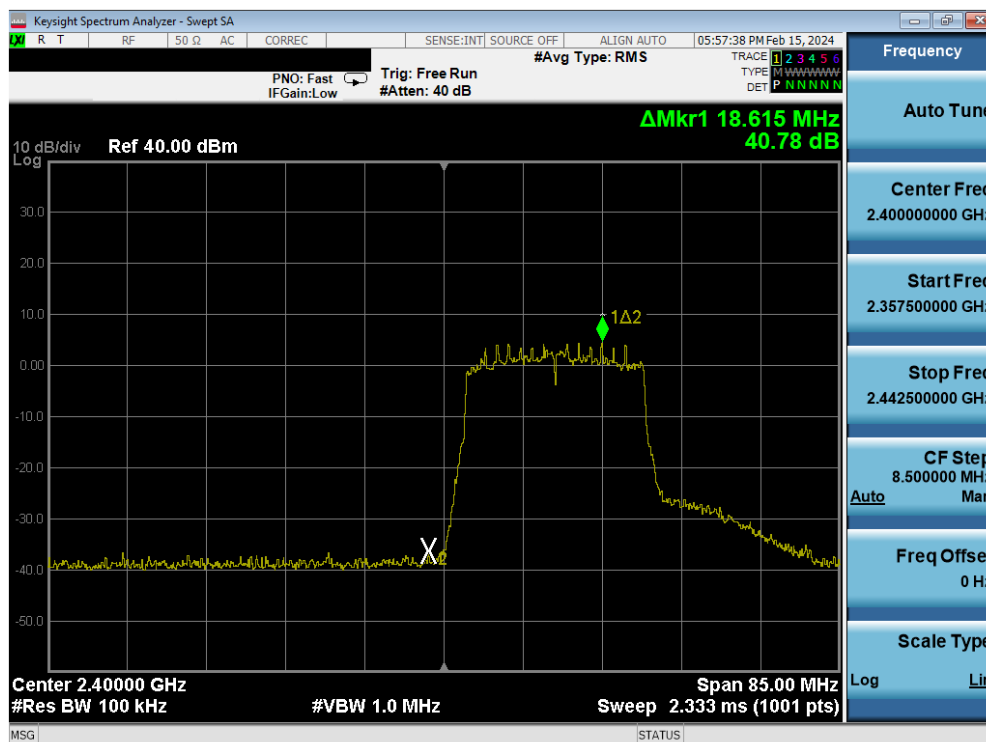


Plot 7-291. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 13) - MCS2

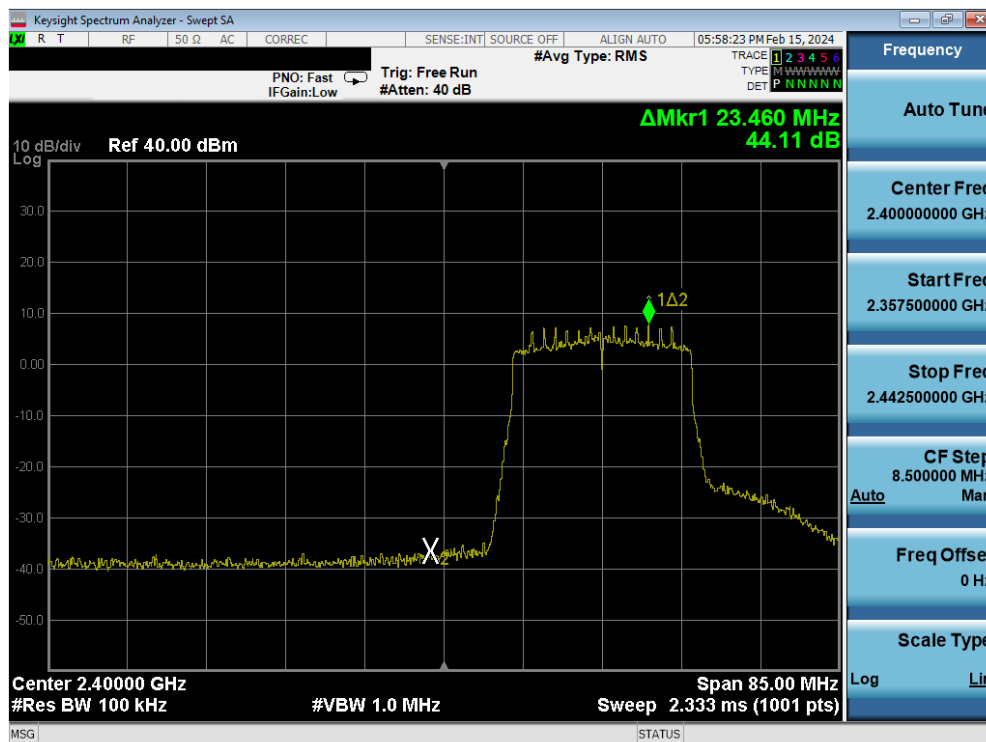
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 189 of 372

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Plot 7-292. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2

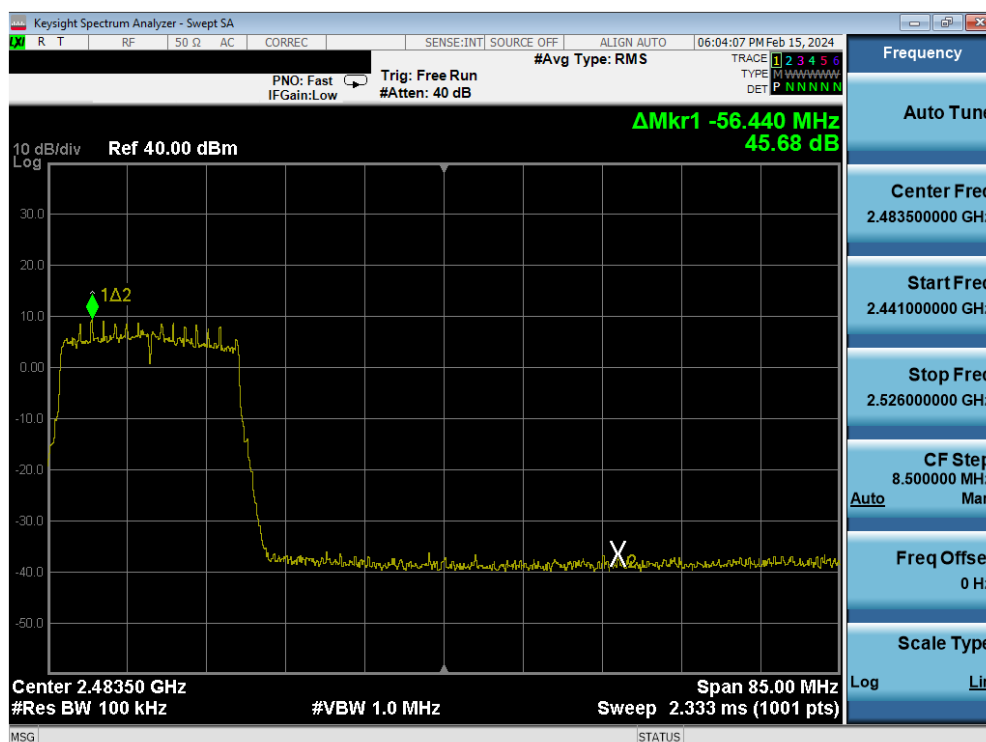


Plot 7-293. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS2

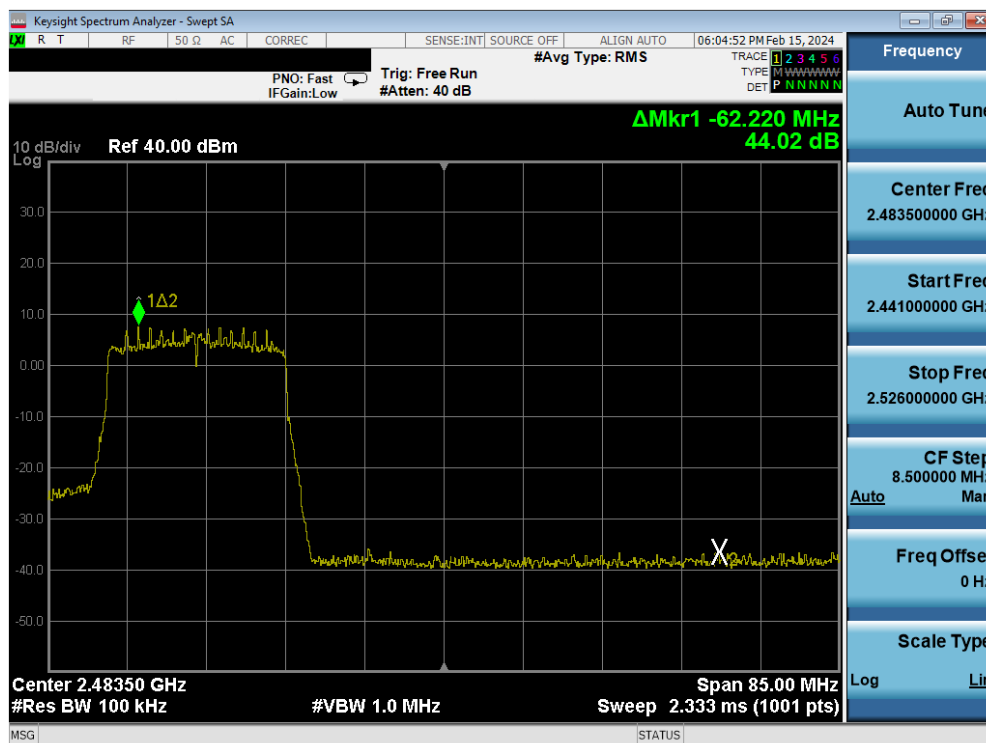
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 190 of 372

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Plot 7-298. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS2

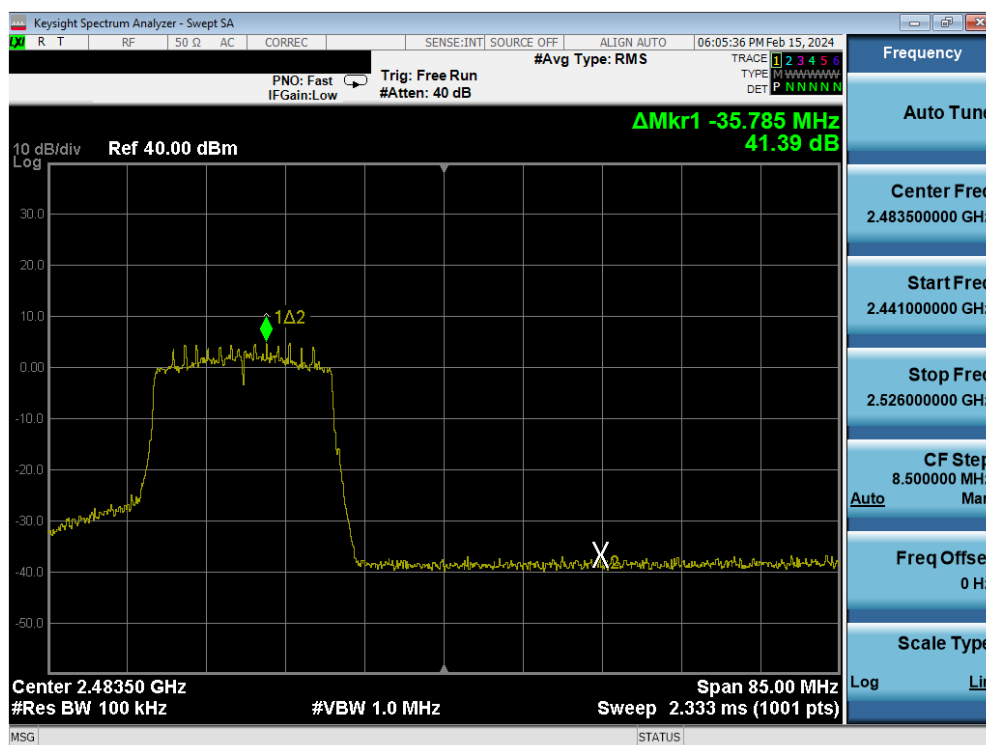


Plot 7-299. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS2

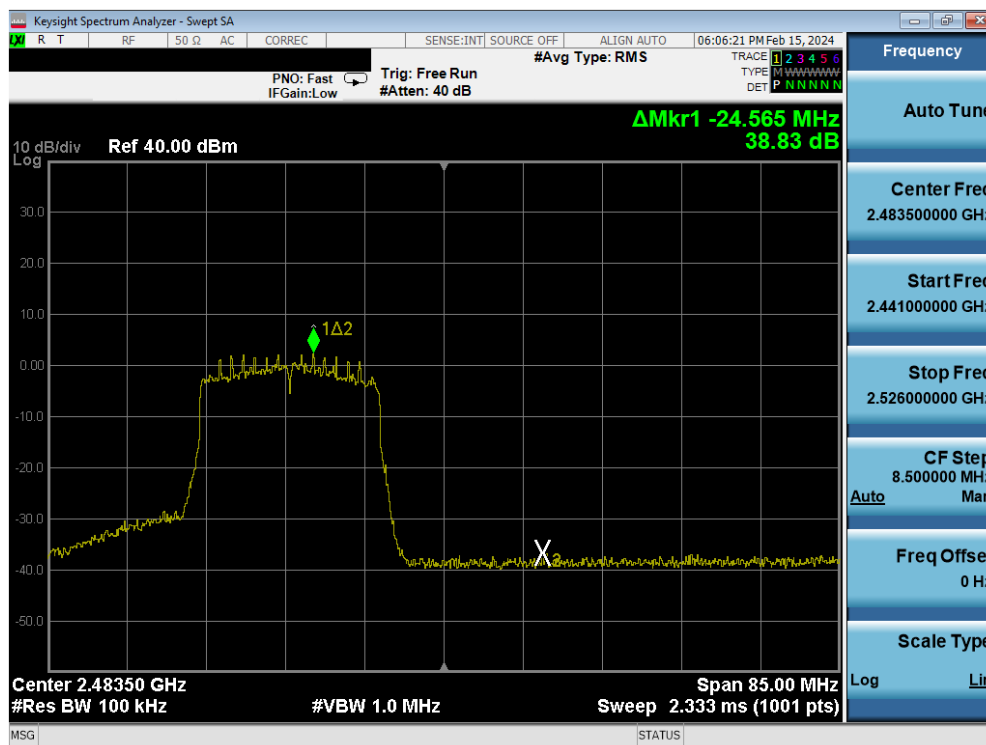
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 193 of 372

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Plot 7-300. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2



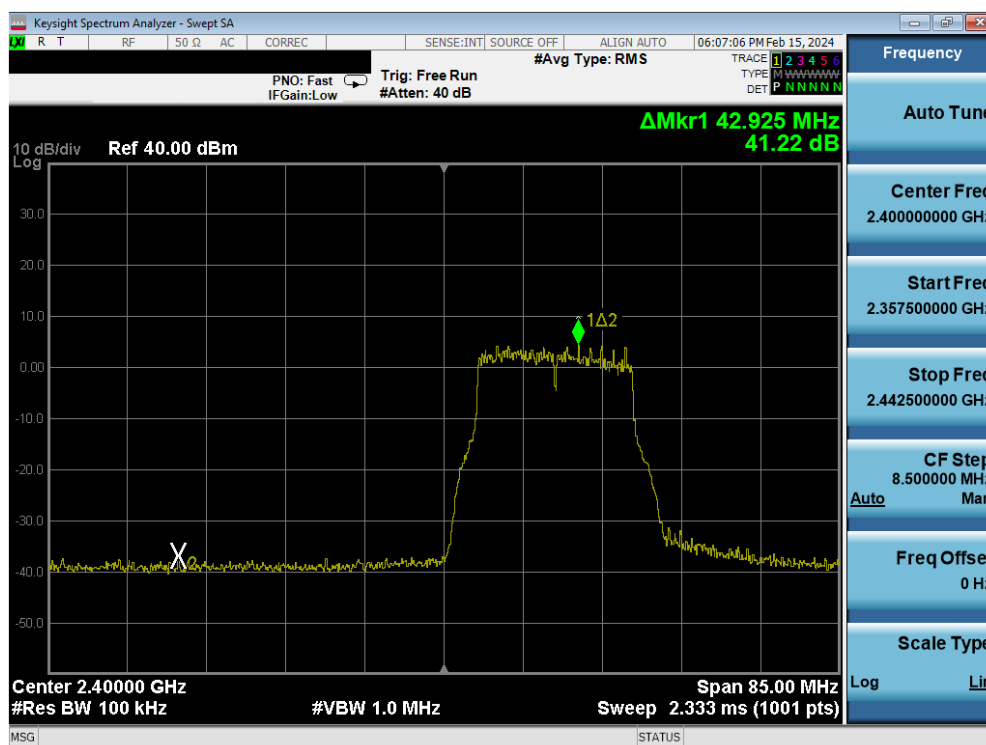
Plot 7-301. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS2

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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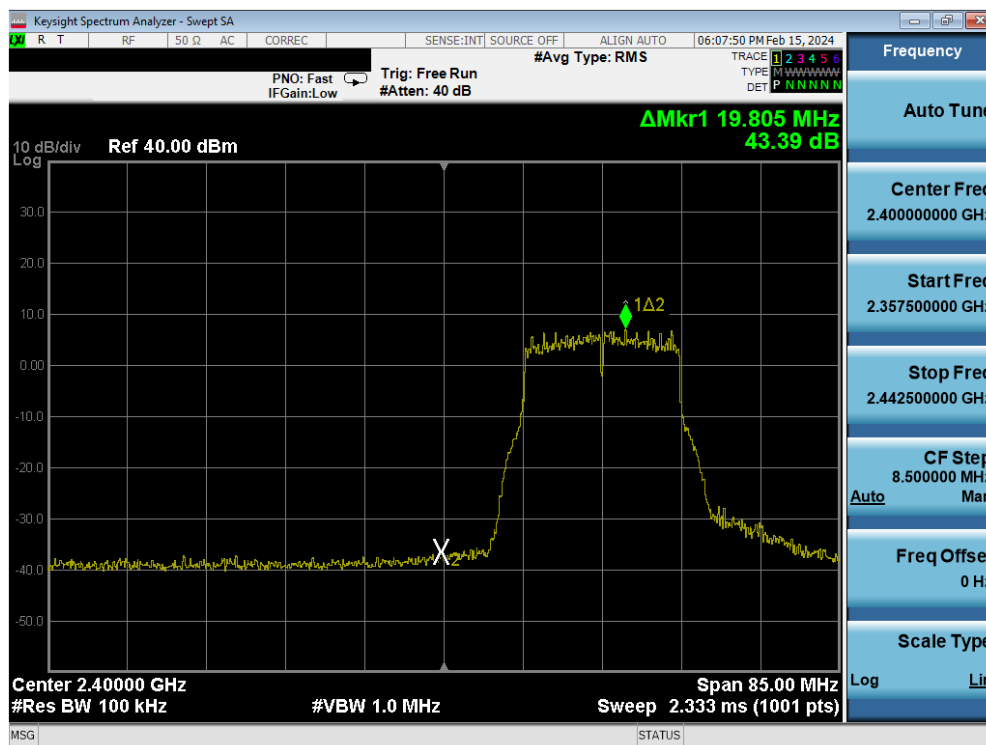
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Mid Rate



Plot 7-302. Band Edge Plot Antenna 2a (802.11g – Ch. 1) – 24Mbps

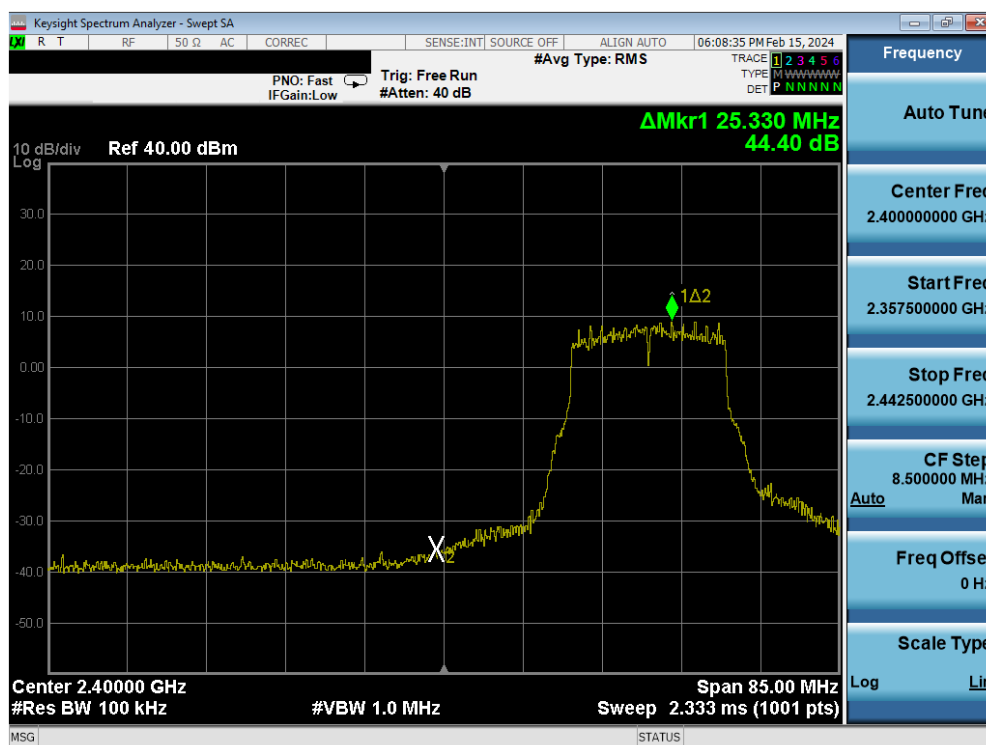


Plot 7-303. Band Edge Plot Antenna 2a (802.11g – Ch. 2) – 24Mbps

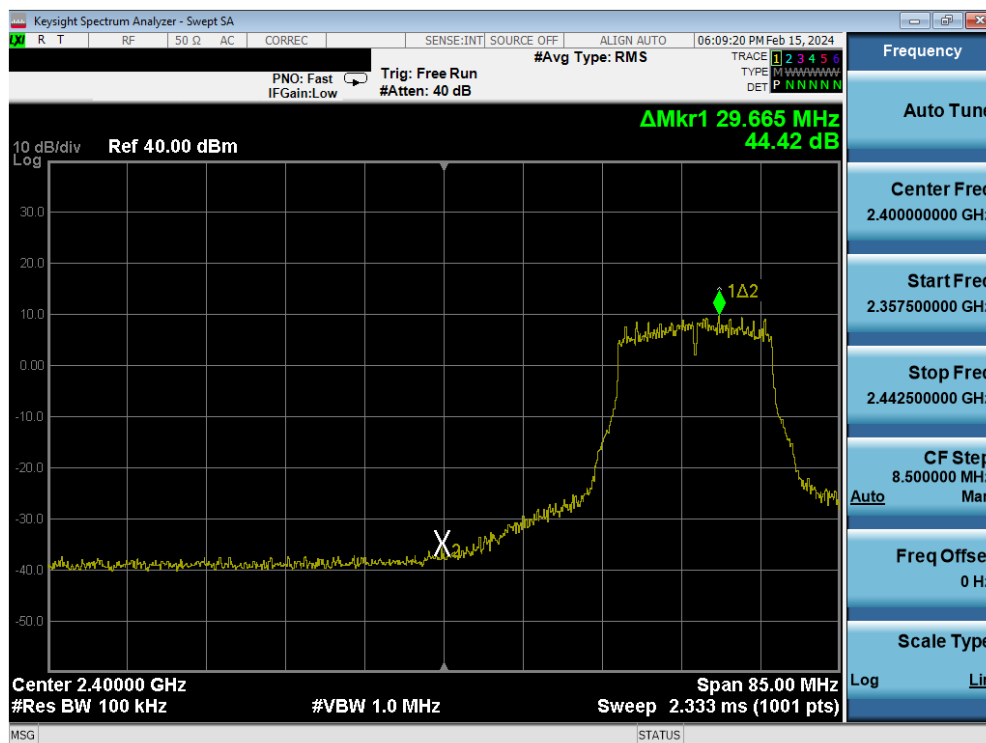
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 195 of 372

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Plot 7-304. Band Edge Plot Antenna 2a (802.11g – Ch. 3) – 24Mbps

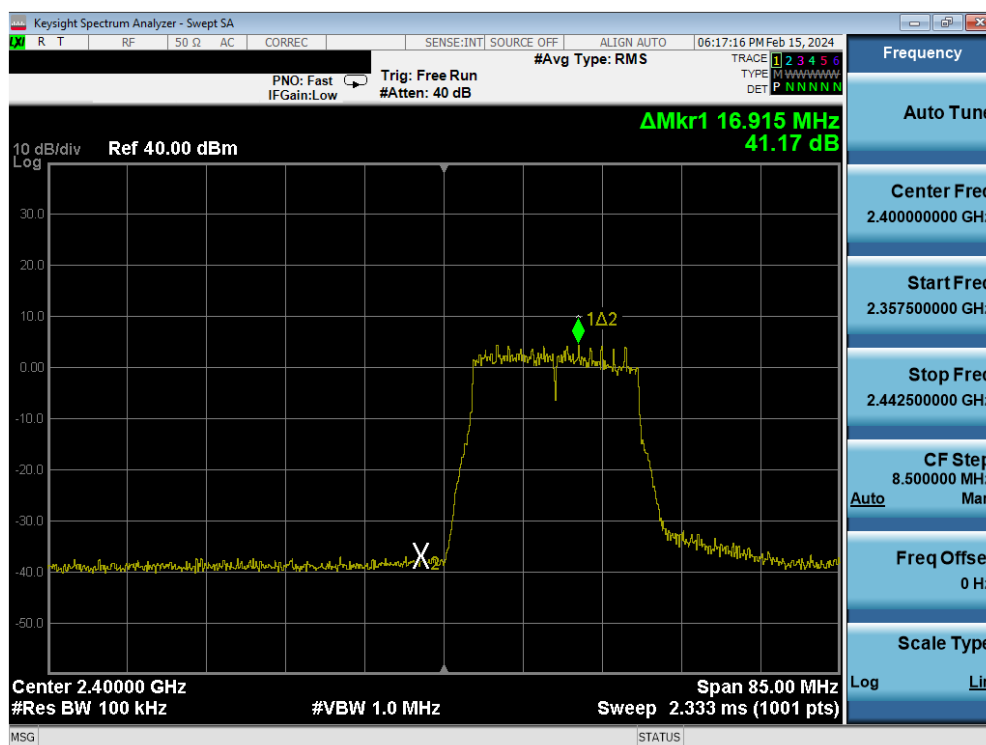


Plot 7-305. Band Edge Plot Antenna 2a (802.11g – Ch. 4) – 24Mbps

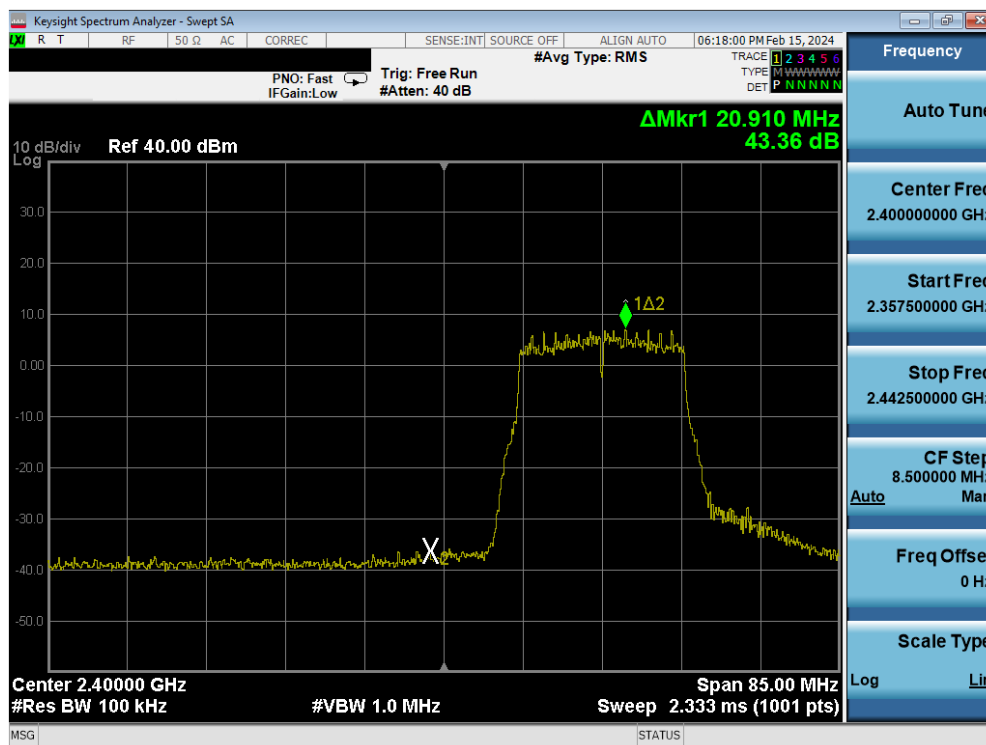
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 196 of 372

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Plot 7-312. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS4

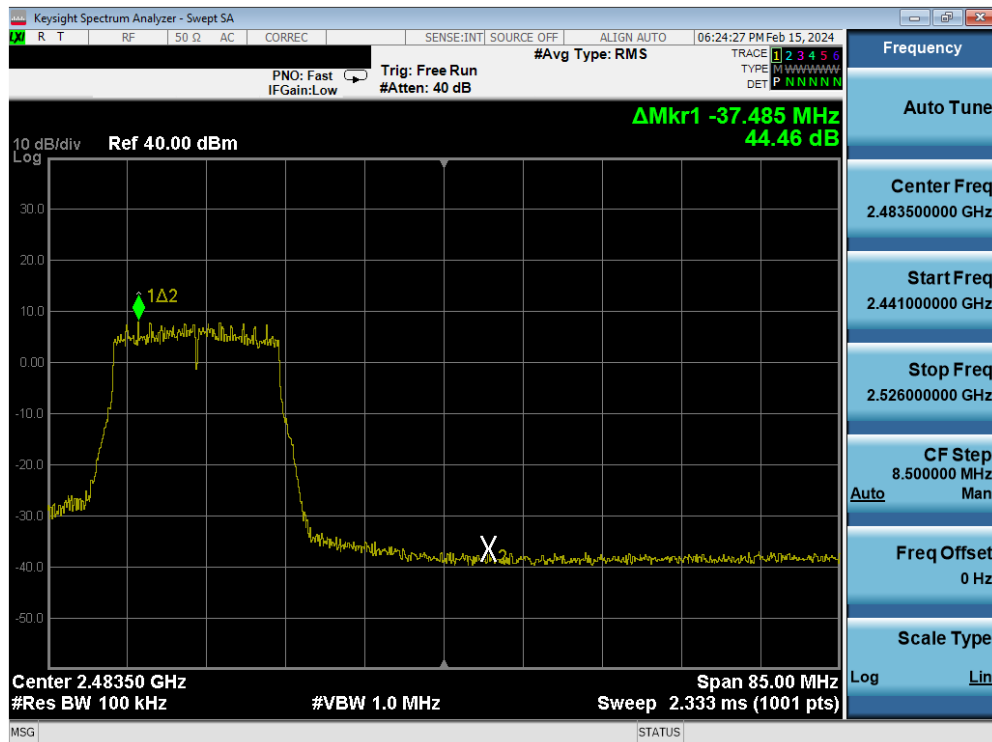


Plot 7-313. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS4

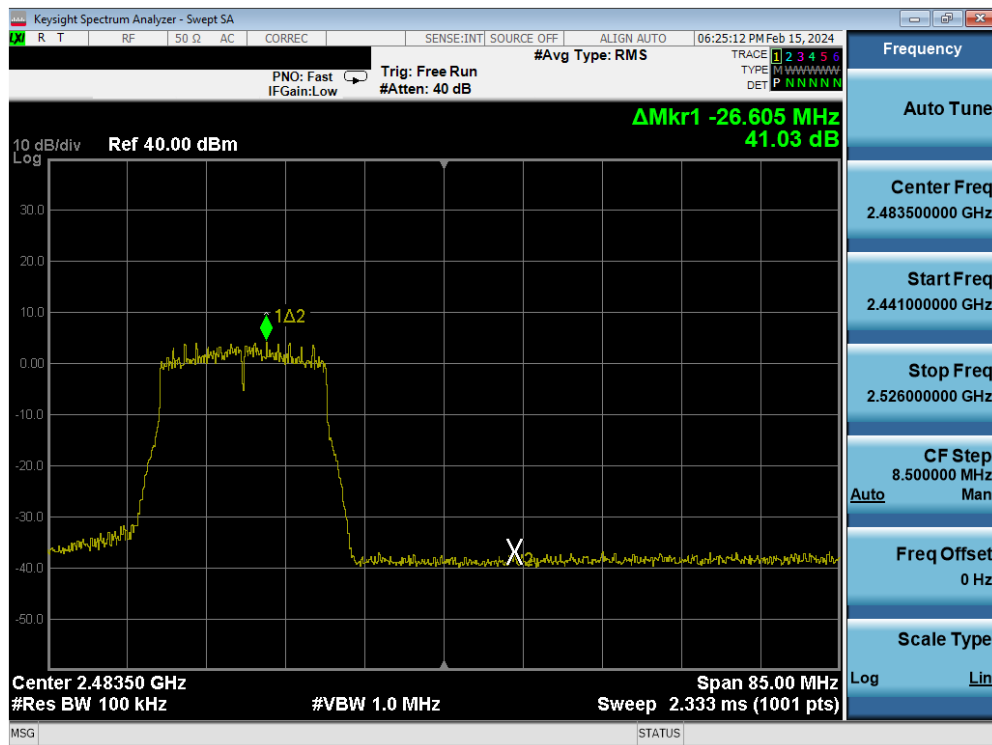
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 200 of 372

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Plot 7-318. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 10) - MCS4

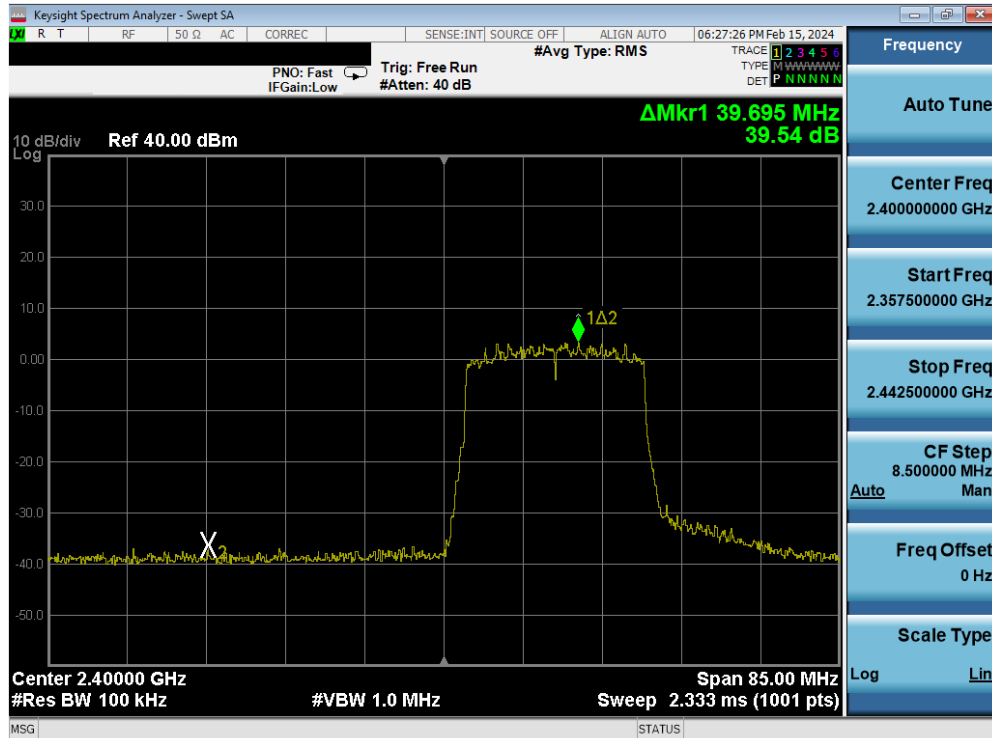


Plot 7-319. Band Edge Plot Antenna 2a (802.11n (2.4GHz) - Ch. 11) - MCS4

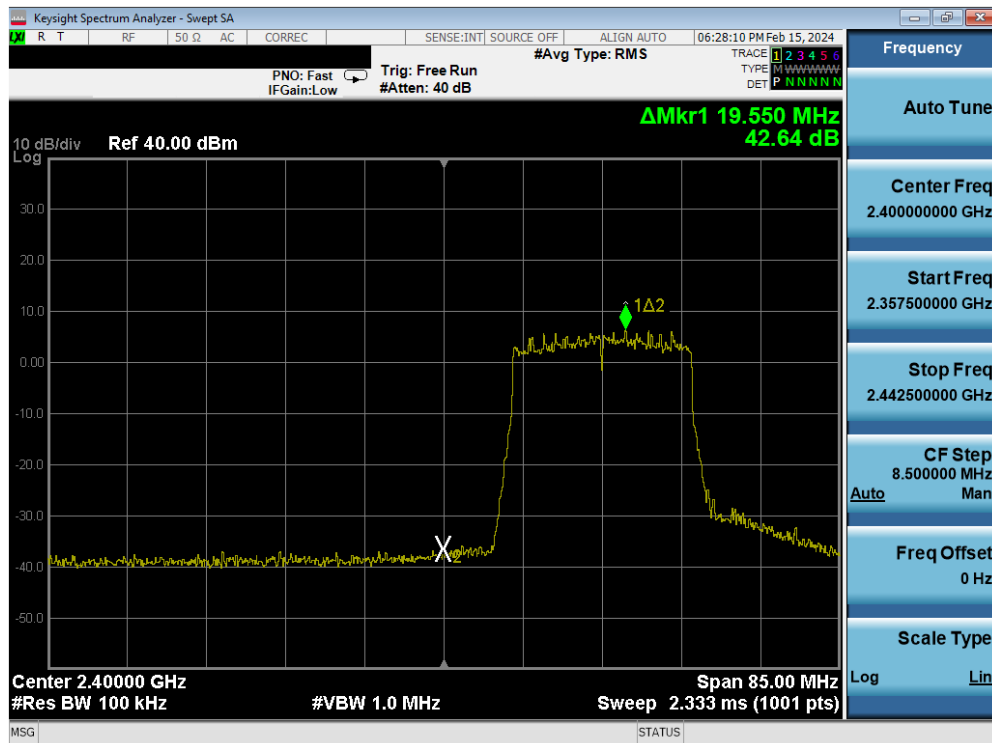
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 203 of 372

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Plot 7-322. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4

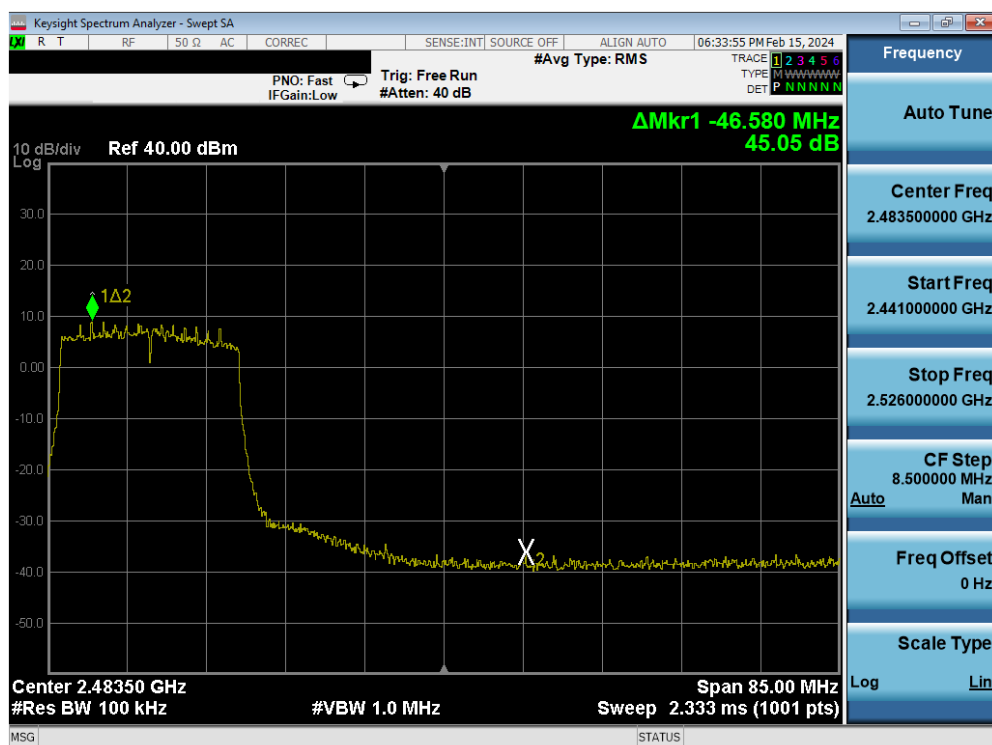


Plot 7-323. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS4

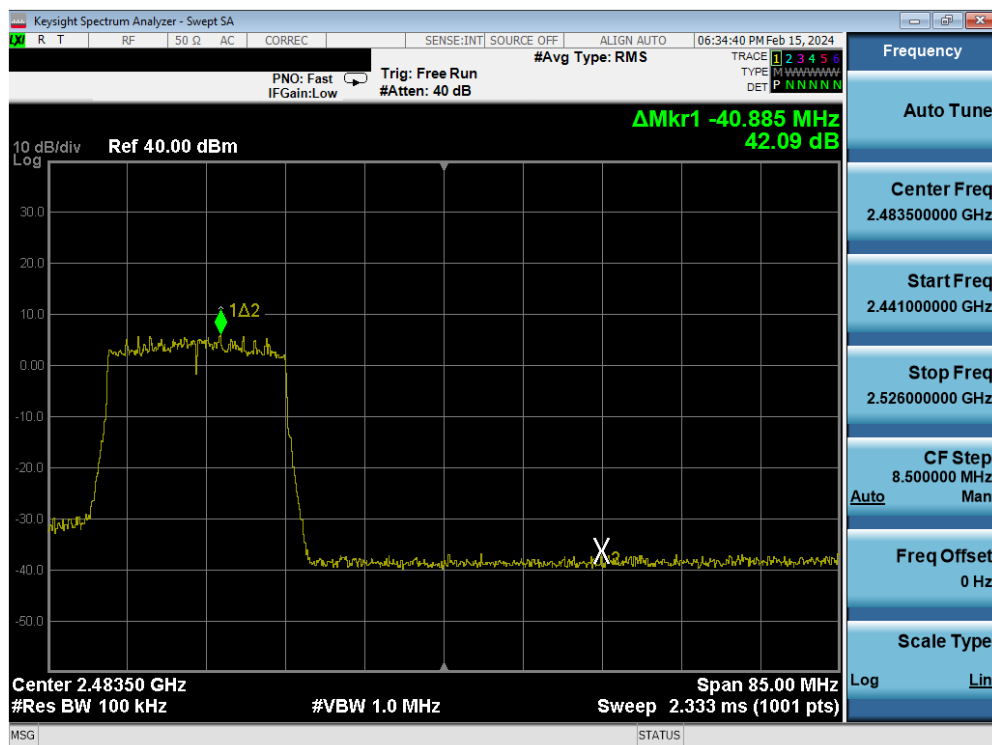
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 205 of 372

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Plot 7-328. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS4

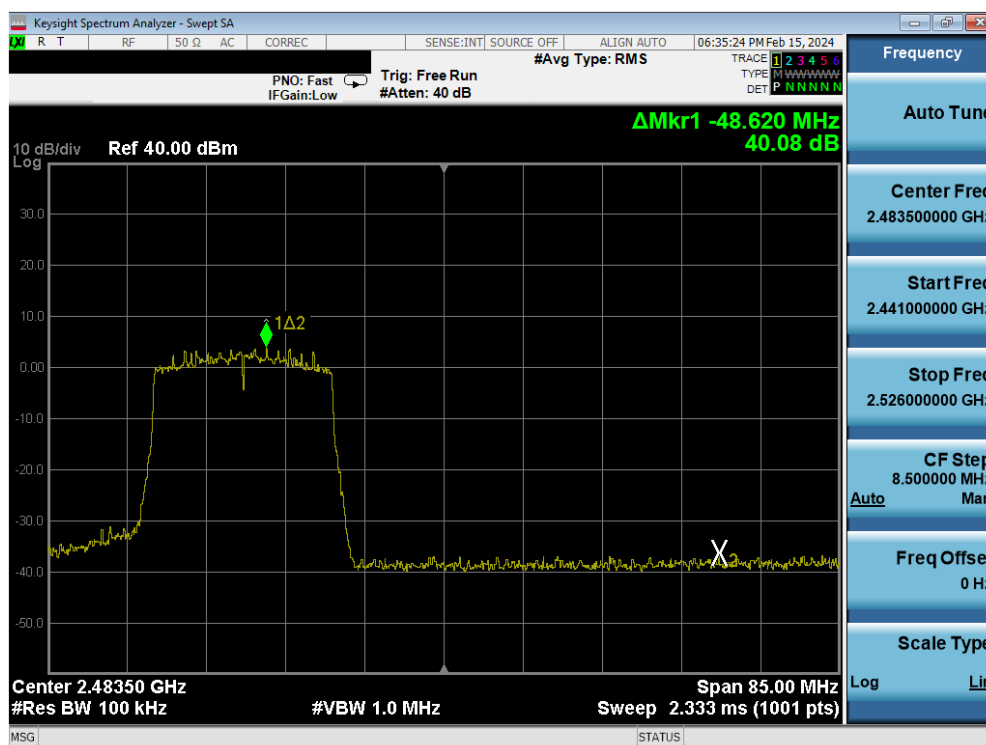


Plot 7-329. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS4

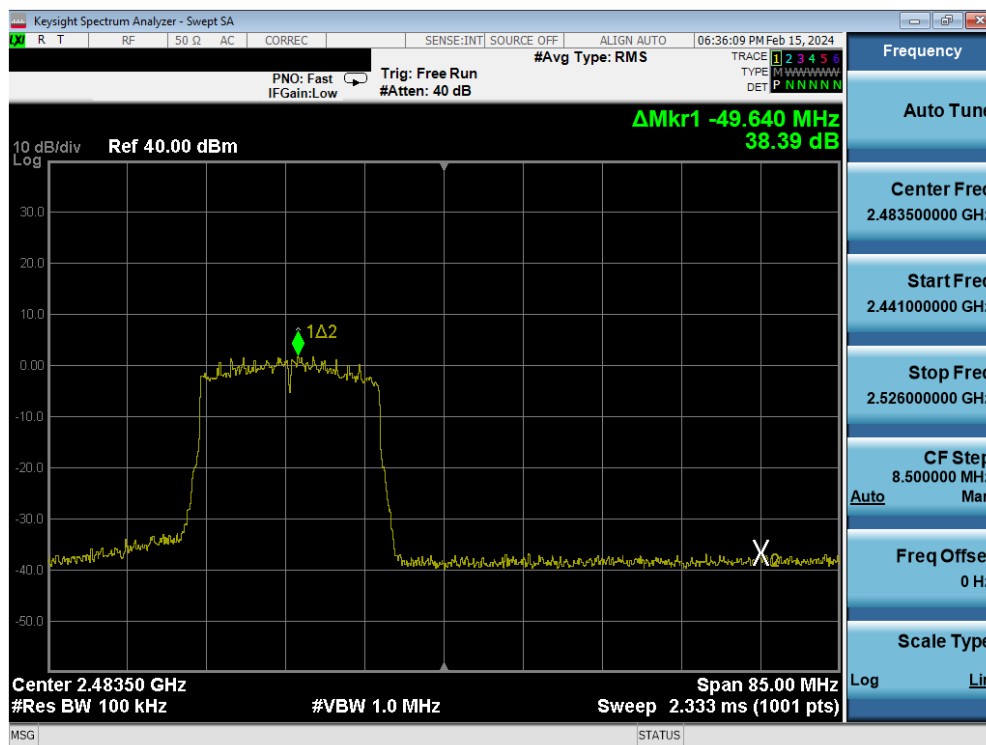
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 208 of 372

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Plot 7-330. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS4



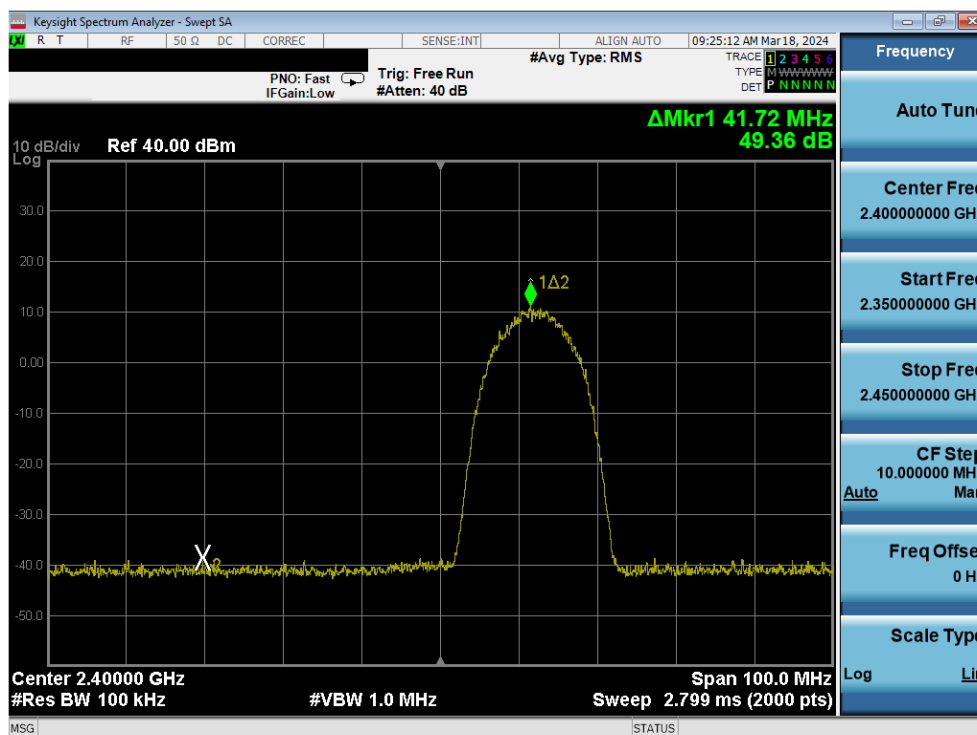
Plot 7-331. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 12) - MCS4

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 209 of 372

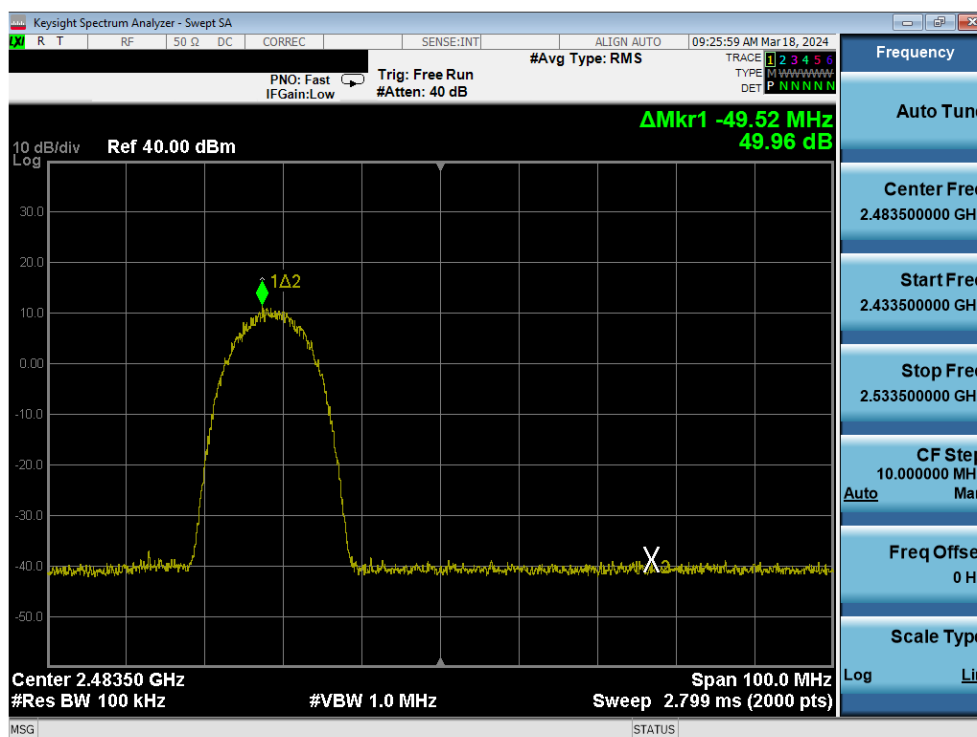
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High Rate



Plot 7-332. Band Edge Plot Antenna 2a (802.11b – Ch. 1) – 11Mbps

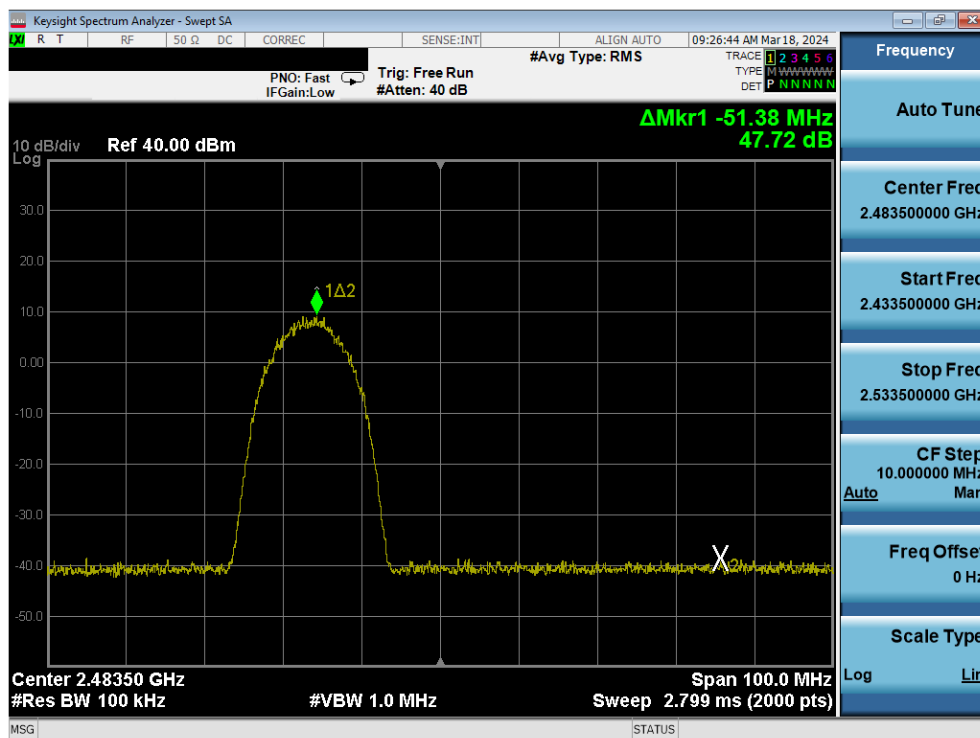


Plot 7-333. Band Edge Plot Antenna 2a (802.11b – Ch. 11) – 11Mbps

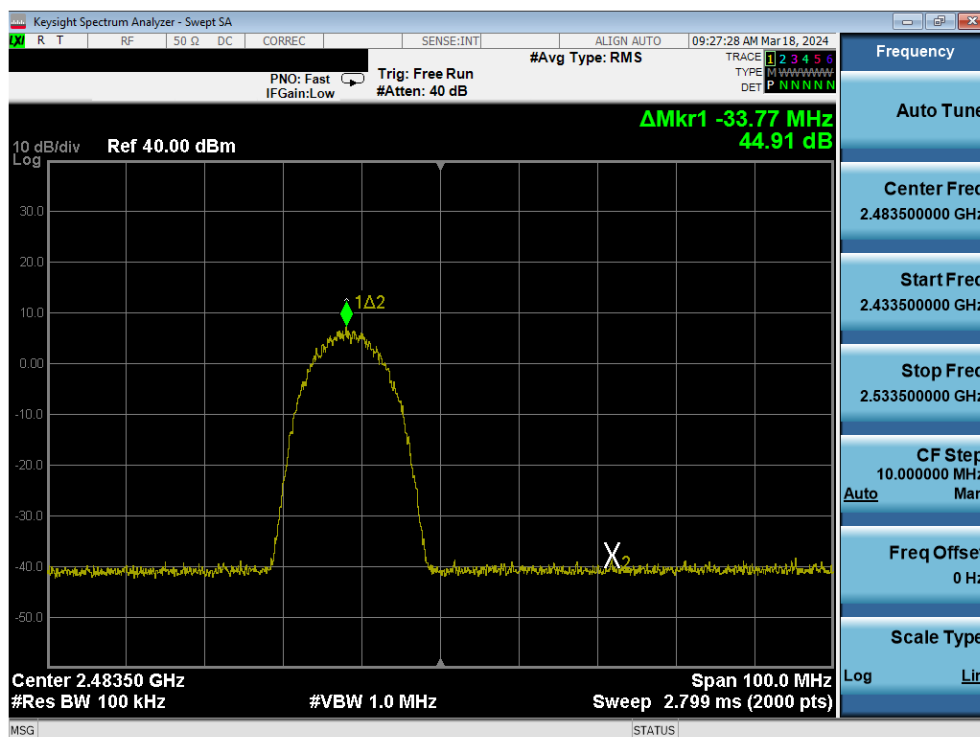
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-334. Band Edge Plot Antenna 2a (802.11b – Ch. 12) – 11Mbps

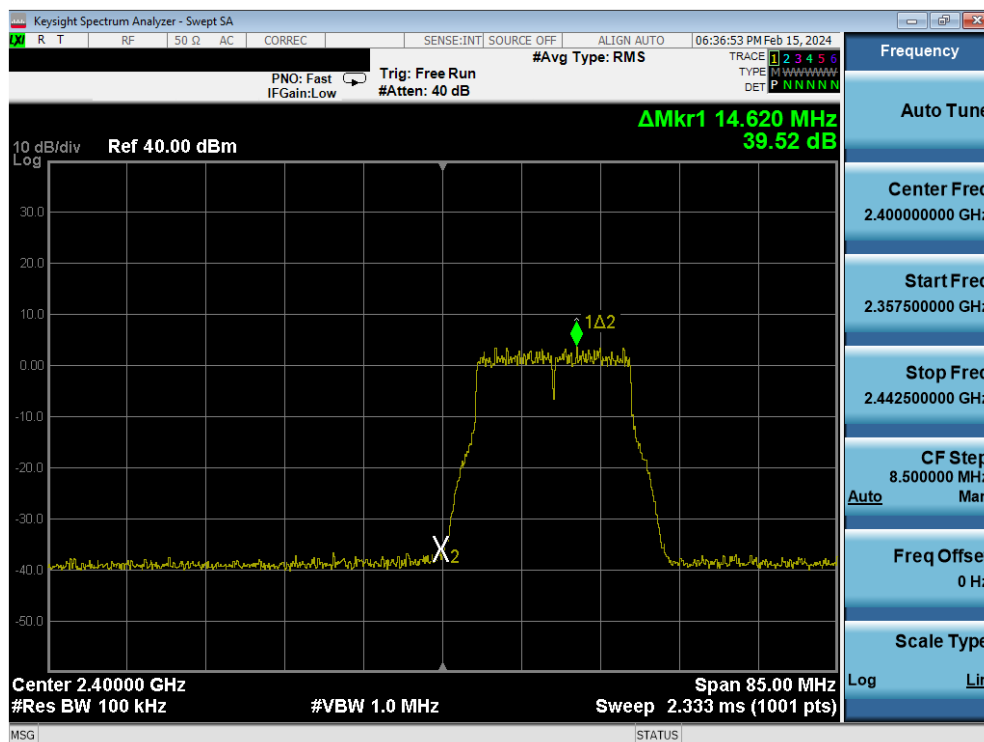


Plot 7-335. Band Edge Plot Antenna 2a (802.11b – Ch. 13) – 11Mbps

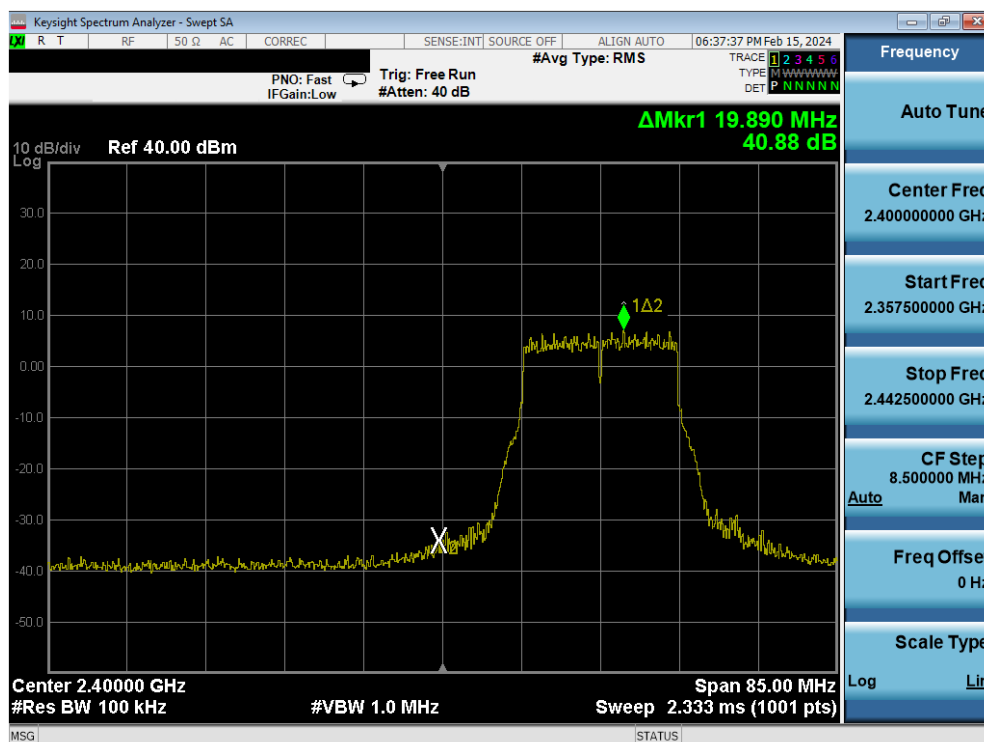
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-336. Band Edge Plot Antenna 2a (802.11g – Ch. 1) – 54Mbps

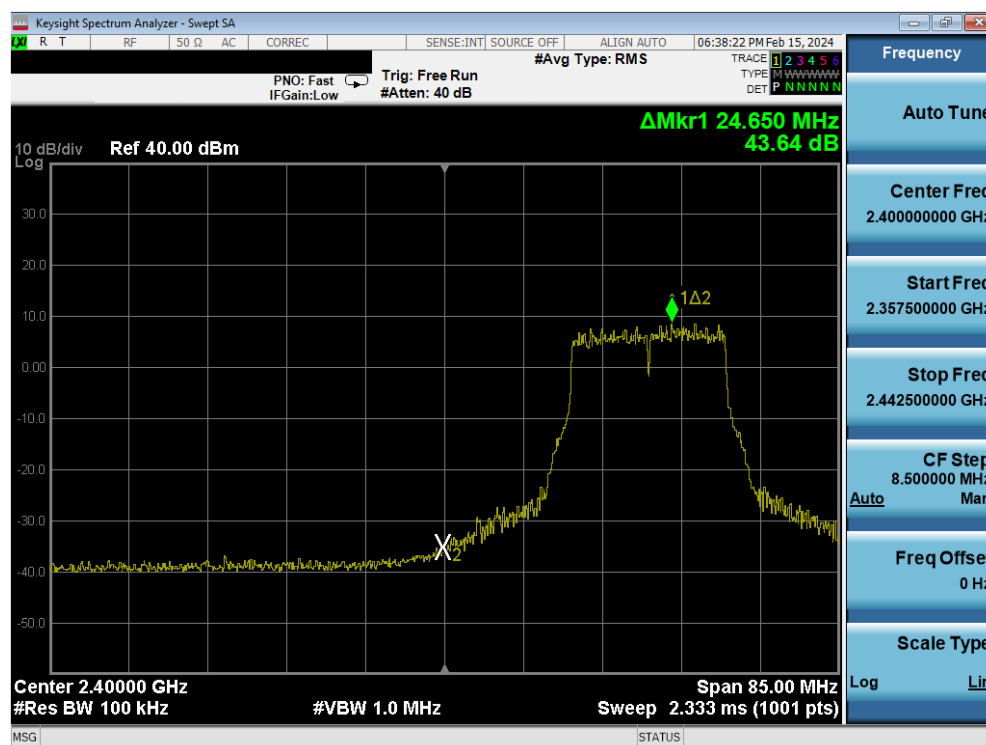


Plot 7-337. Band Edge Plot Antenna 2a (802.11g – Ch. 2) – 54Mbps

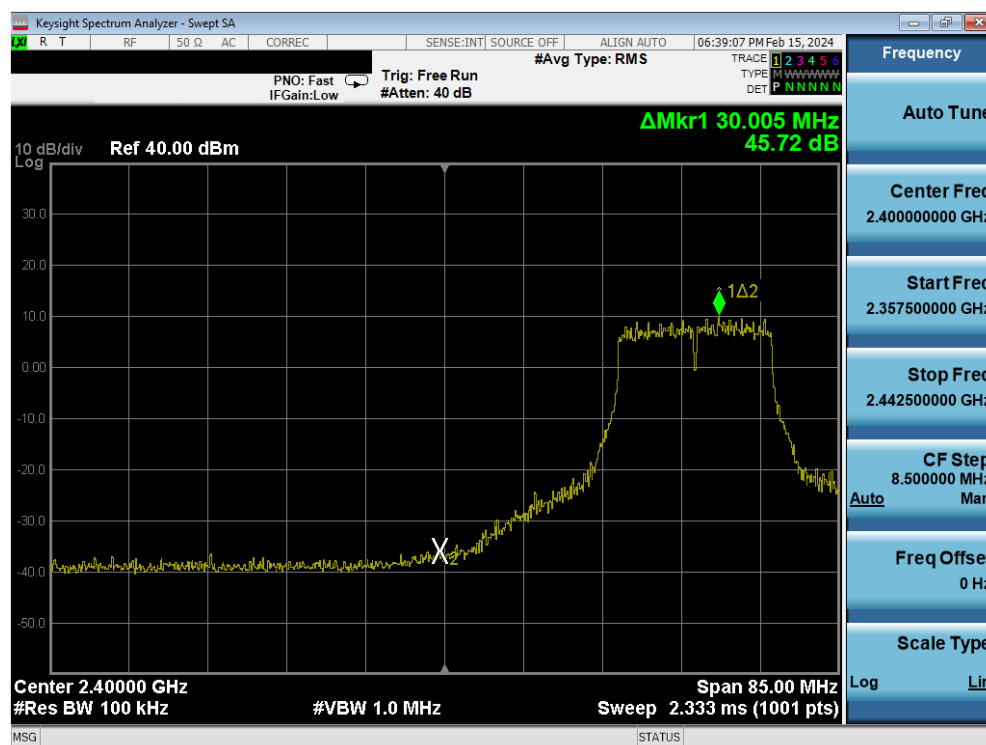
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-338. Band Edge Plot Antenna 2a (802.11g – Ch. 3) – 54Mbps

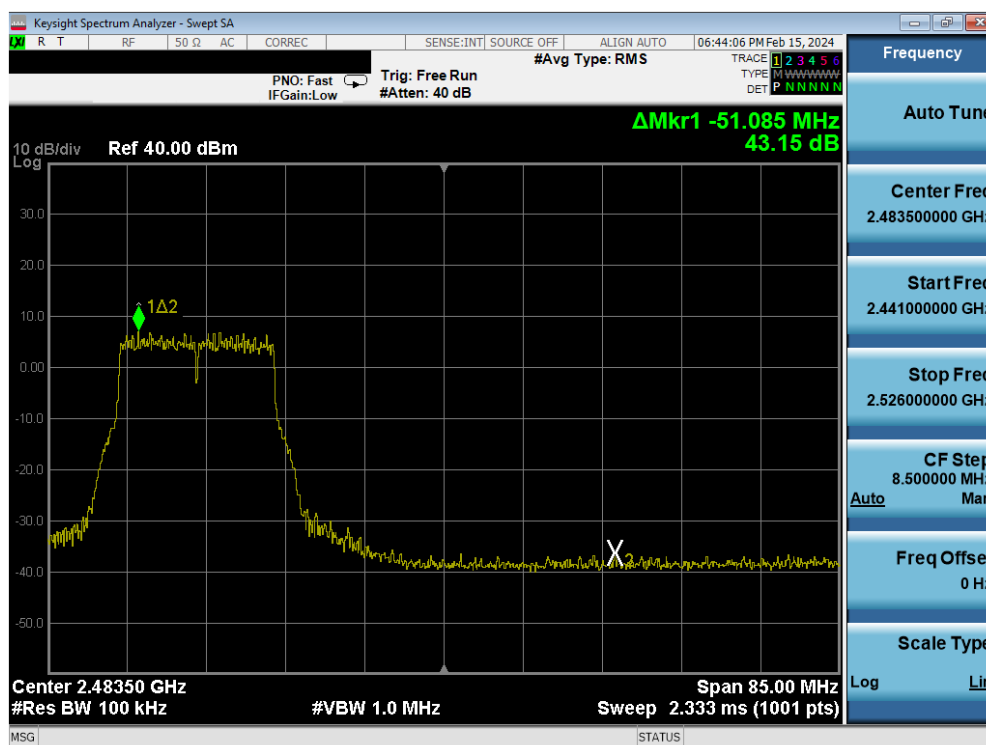
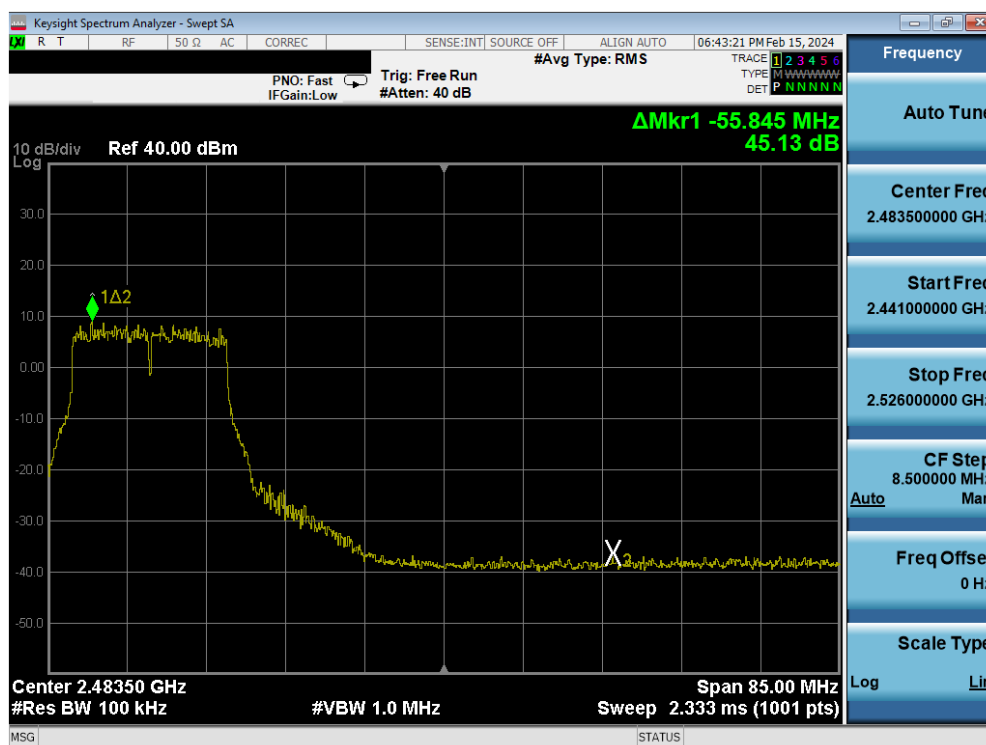


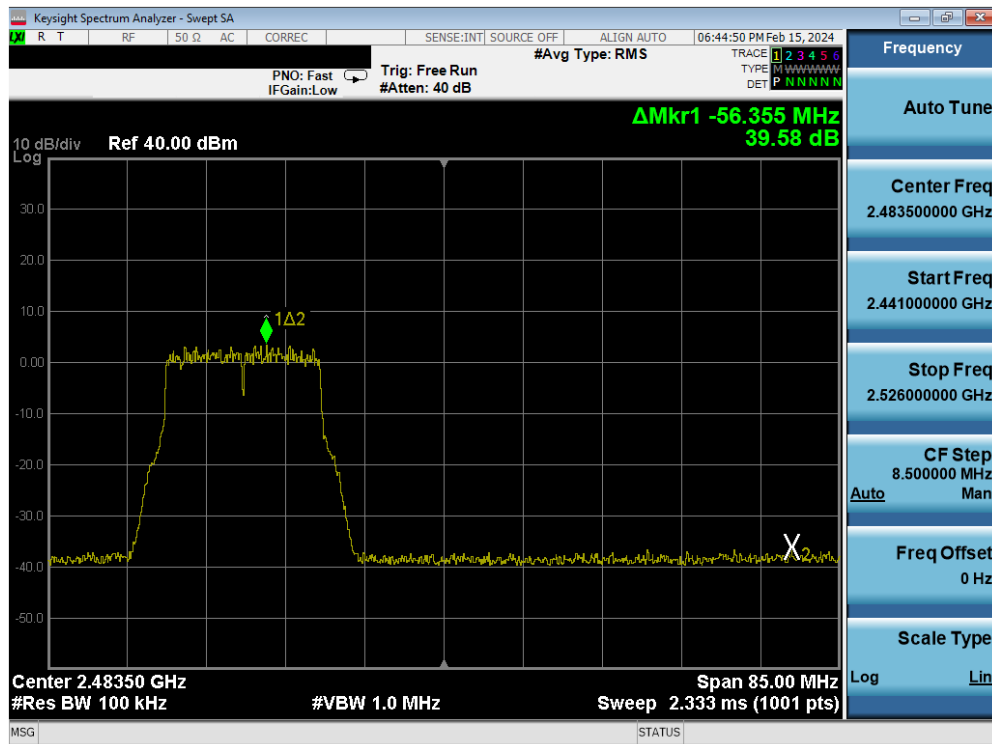
Plot 7-339. Band Edge Plot Antenna 2a (802.11g – Ch. 4) – 54Mbps

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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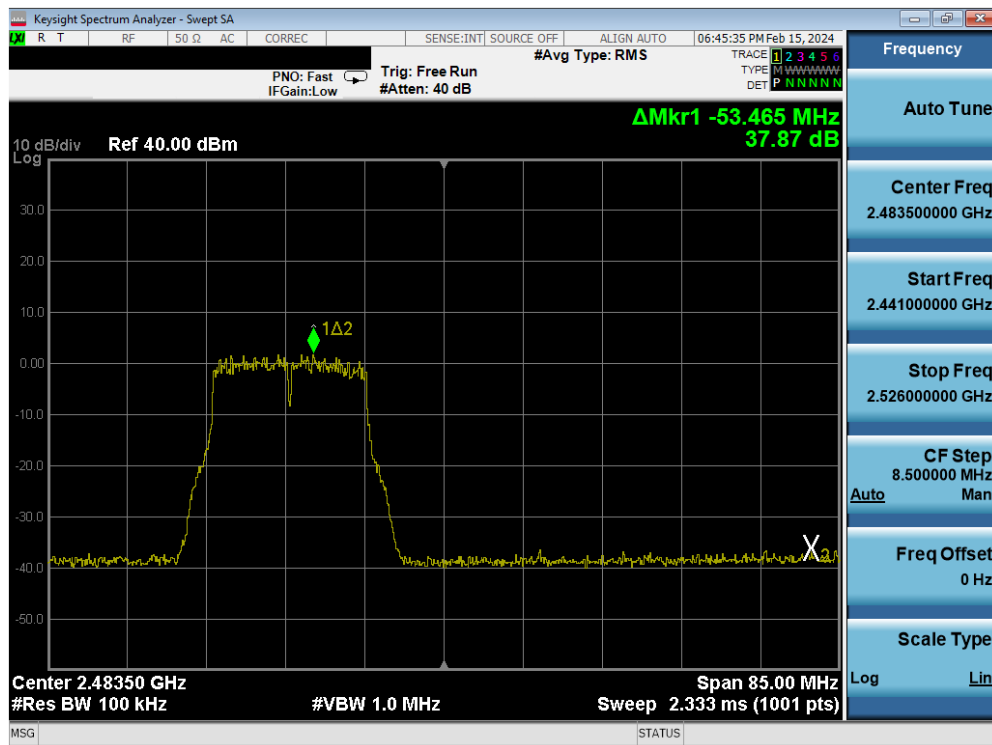
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Plot 7-344. Band Edge Plot Antenna 2a (802.11g – Ch. 11) – 54Mbps

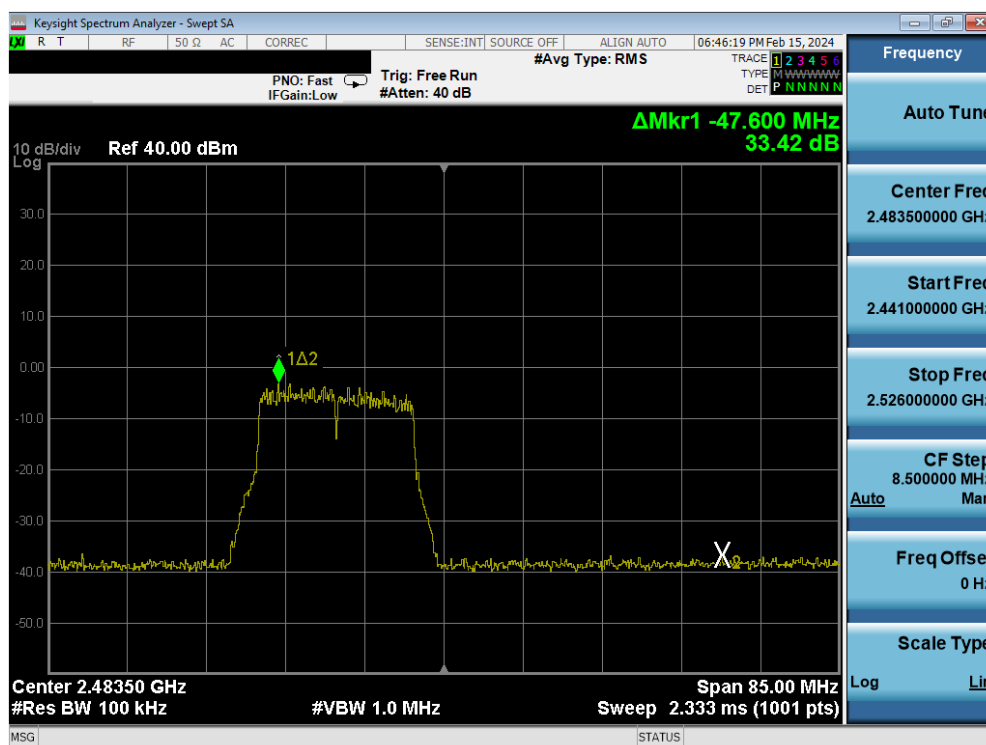


Plot 7-345. Band Edge Plot Antenna 2a (802.11g – Ch. 12) – 54Mbps

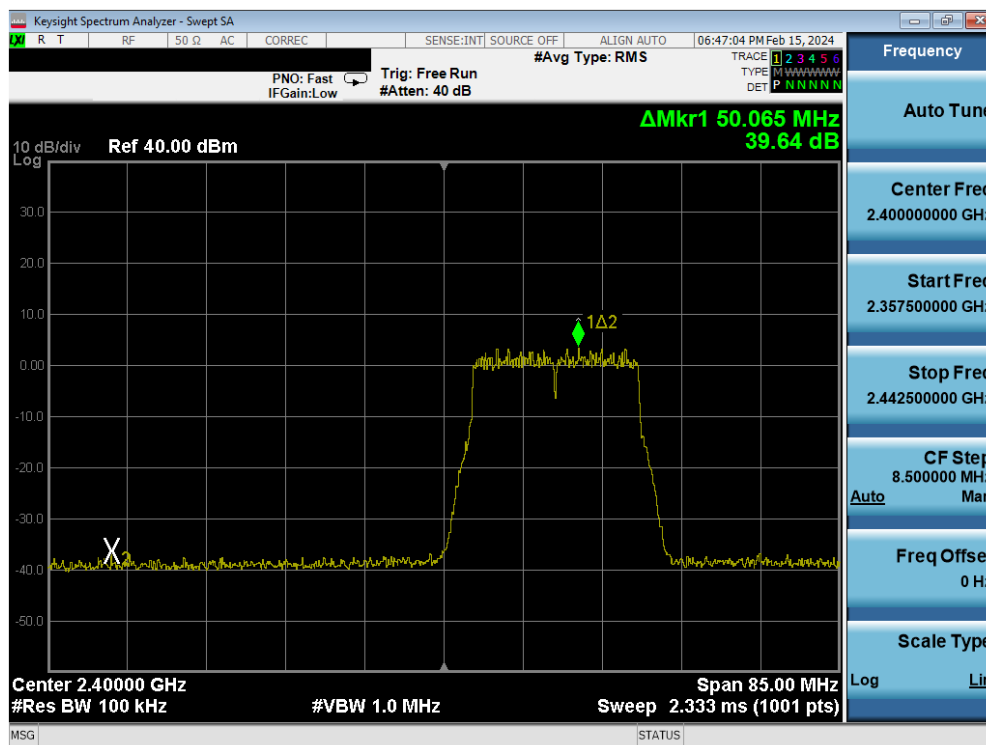
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 216 of 372

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Plot 7-346. Band Edge Plot Antenna 2a (802.11g – Ch. 13) – 54Mbps

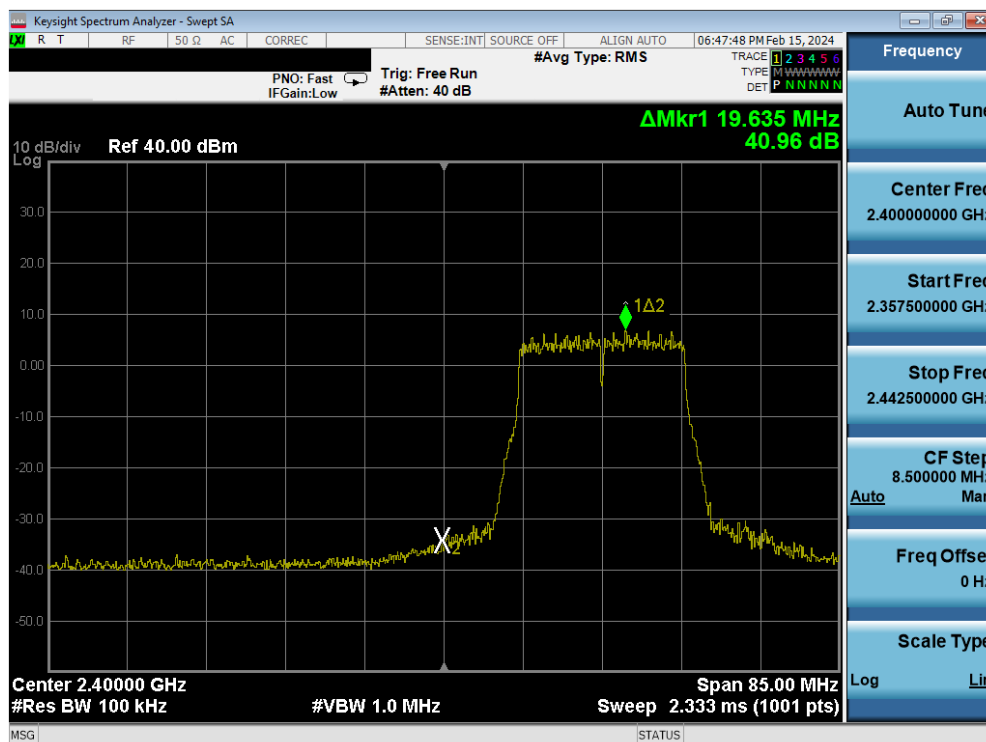


Plot 7-347. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS7

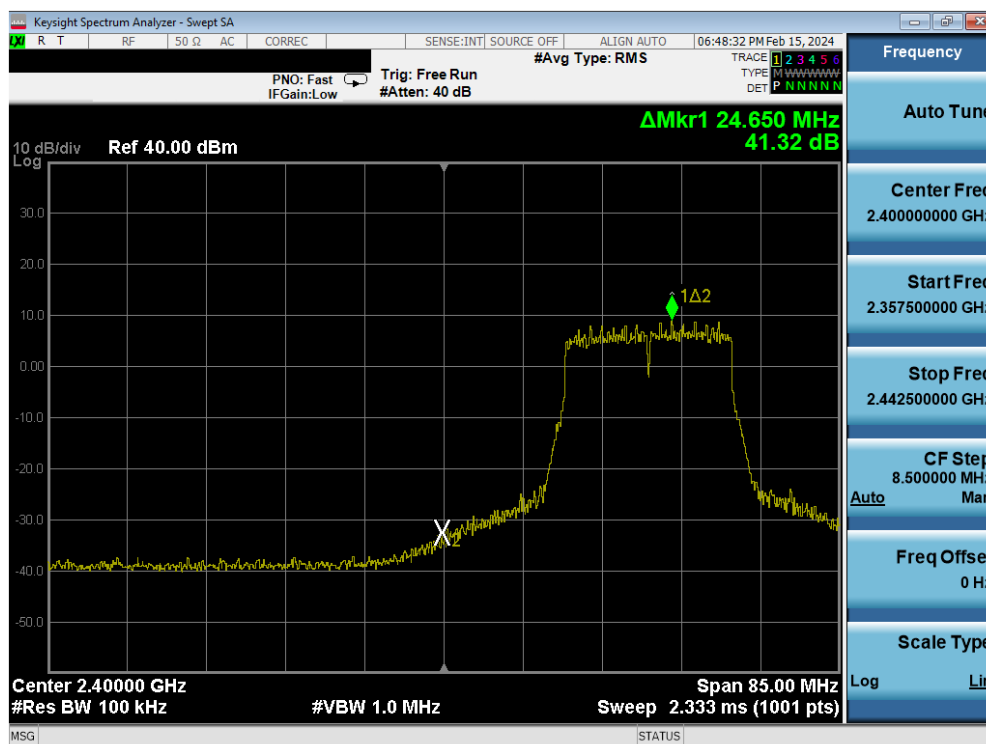
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 217 of 372

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Plot 7-348. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS7

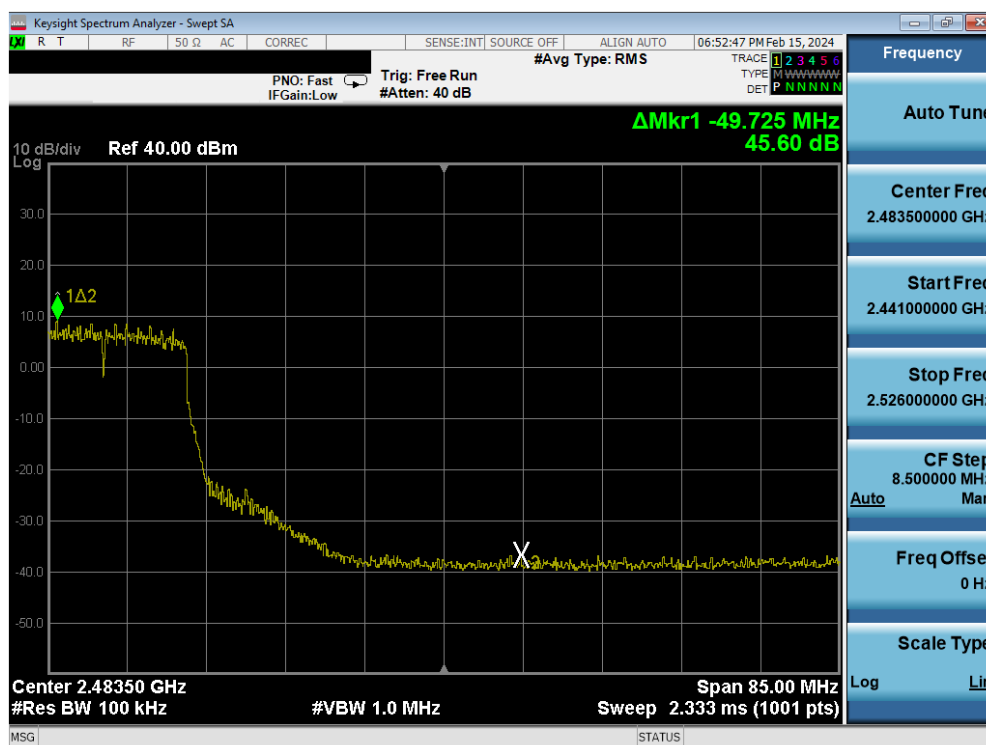


Plot 7-349. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 3) – MCS7

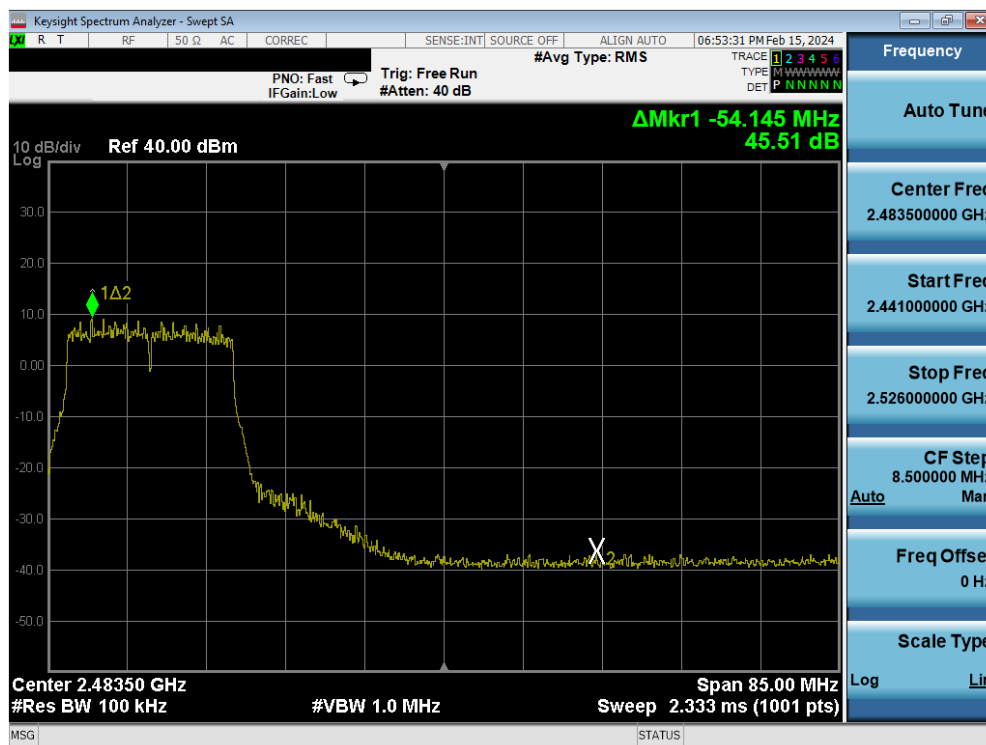
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 218 of 372

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Plot 7-352. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 8) – MCS7

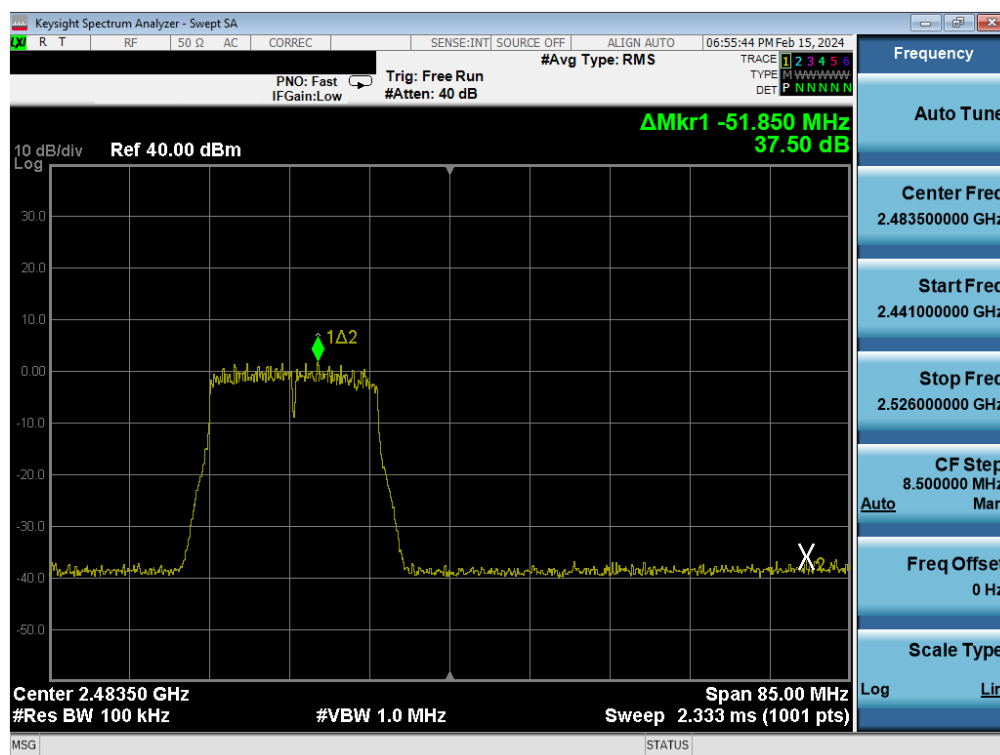


Plot 7-353. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 9) – MCS7

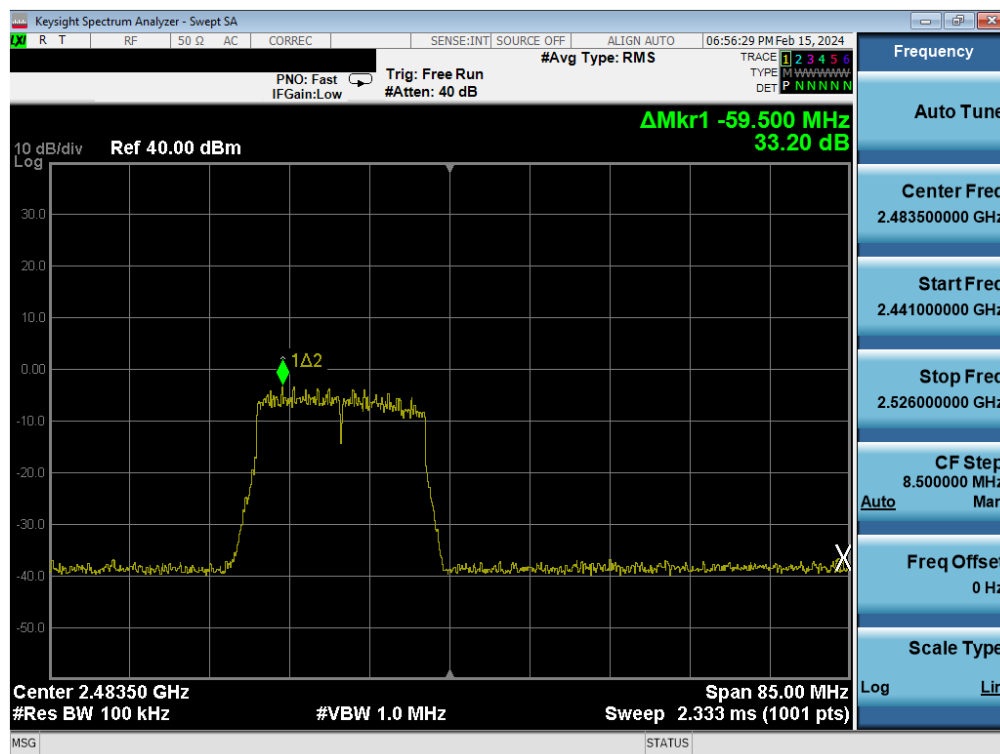
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 220 of 372

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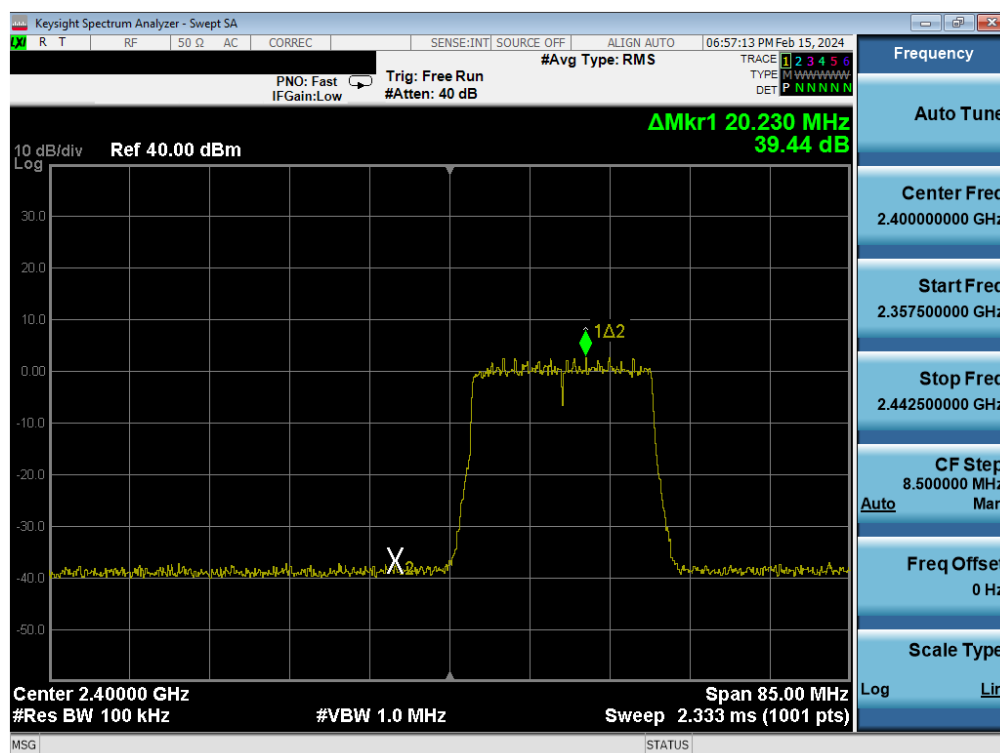
Plot 7-356. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 12) – MCS7



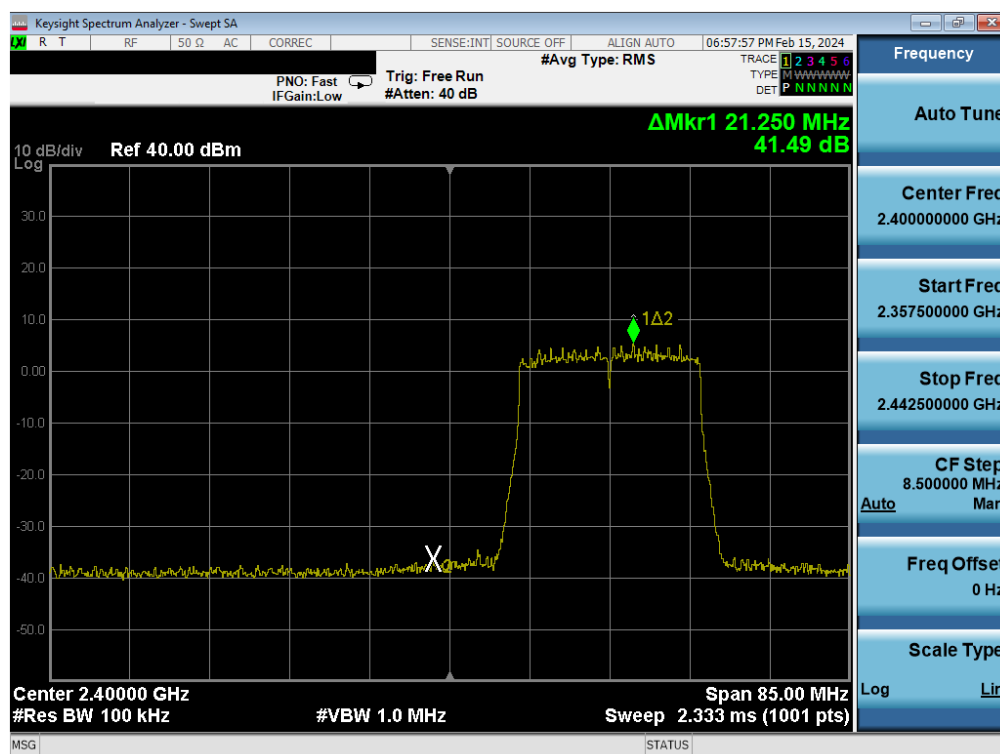
Plot 7-357. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 13) – MCS7

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 222 of 372

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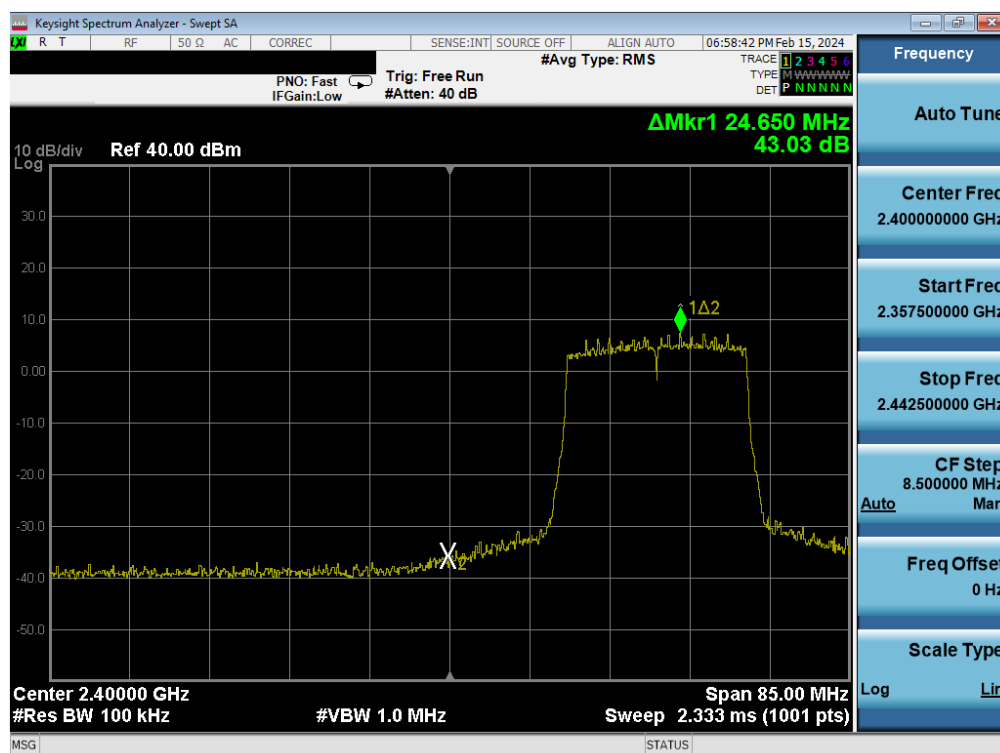
Plot 7-358. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS9



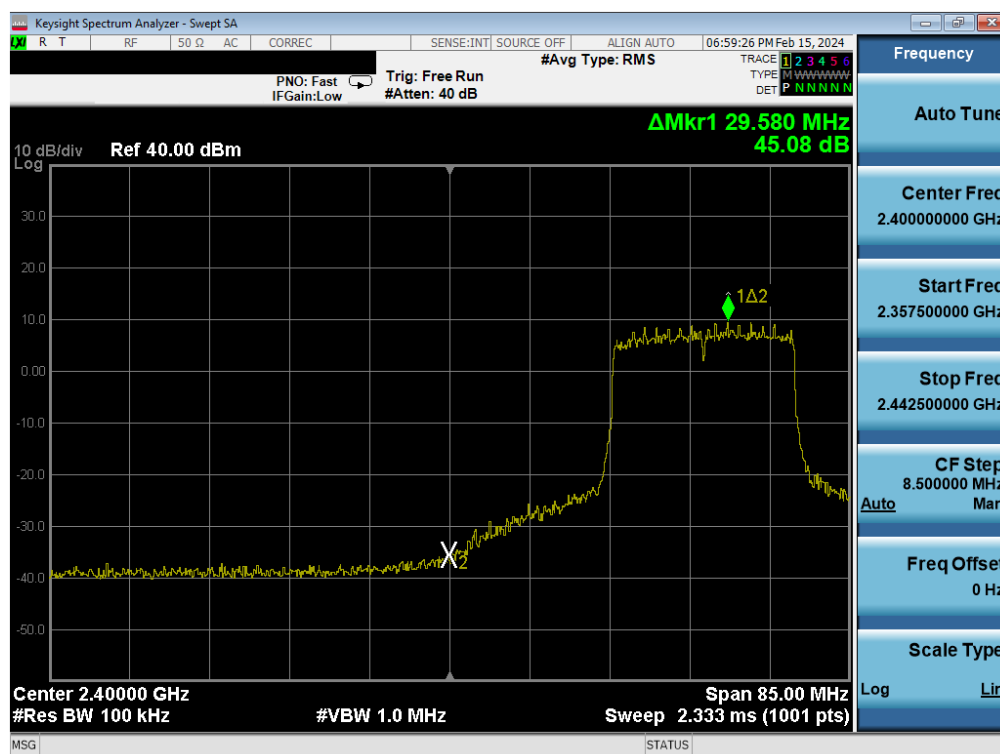
Plot 7-359. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS9

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 223 of 372

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Plot 7-360. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS9

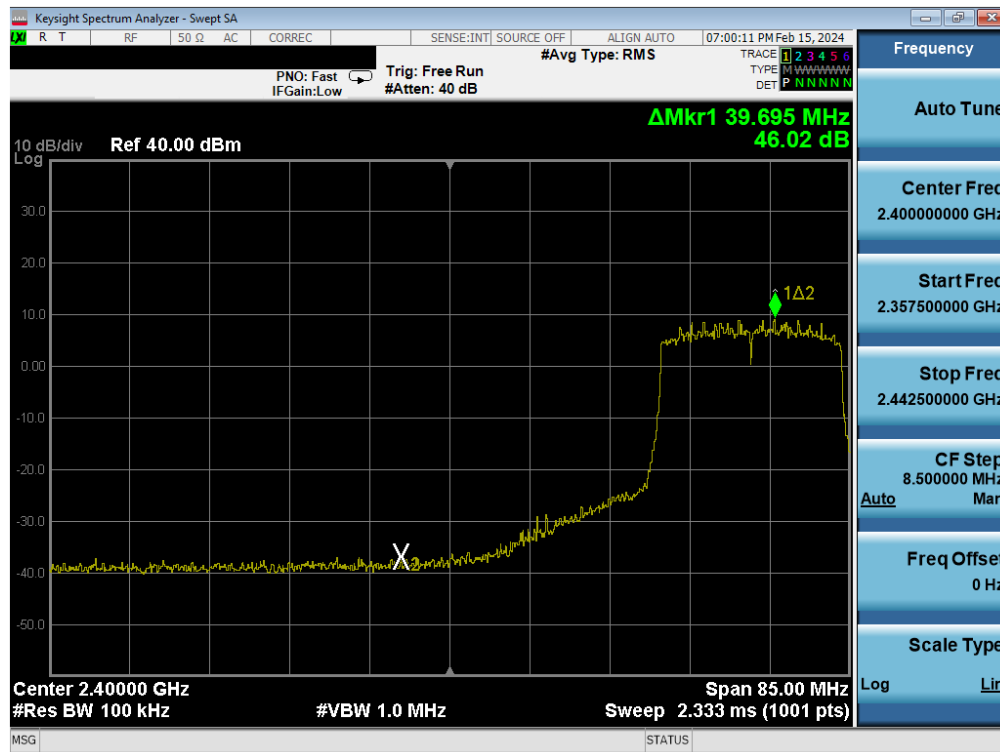


Plot 7-361. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS9

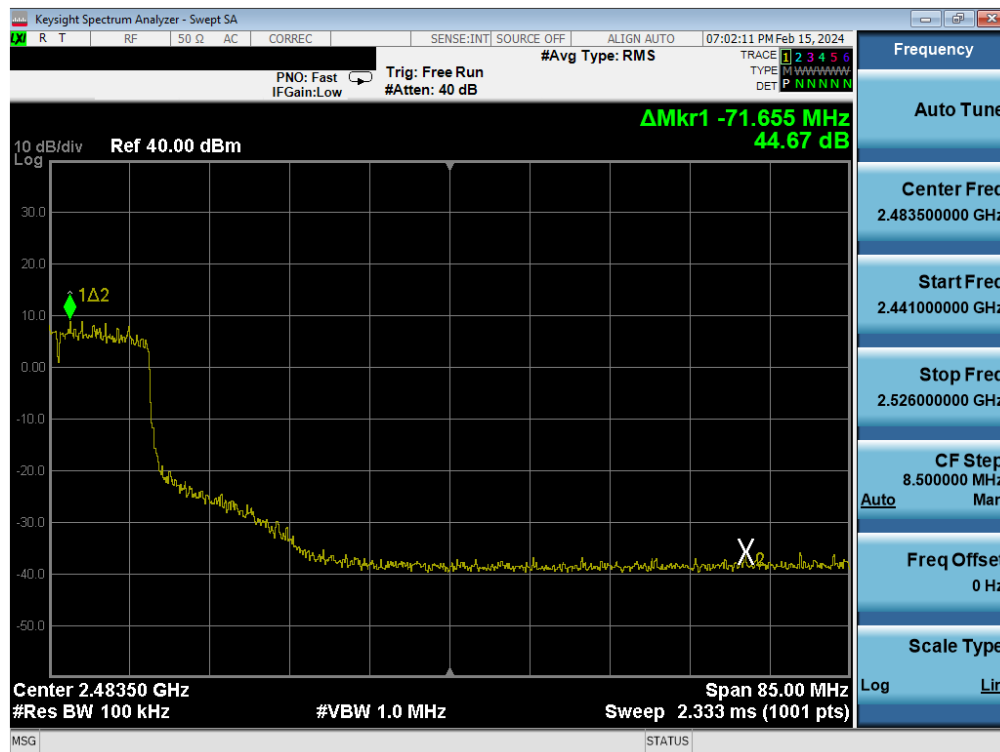
FCC ID: BCGA2837 IC: 579C-A2837	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 224 of 372

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Plot 7-362. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 5) - MCS9

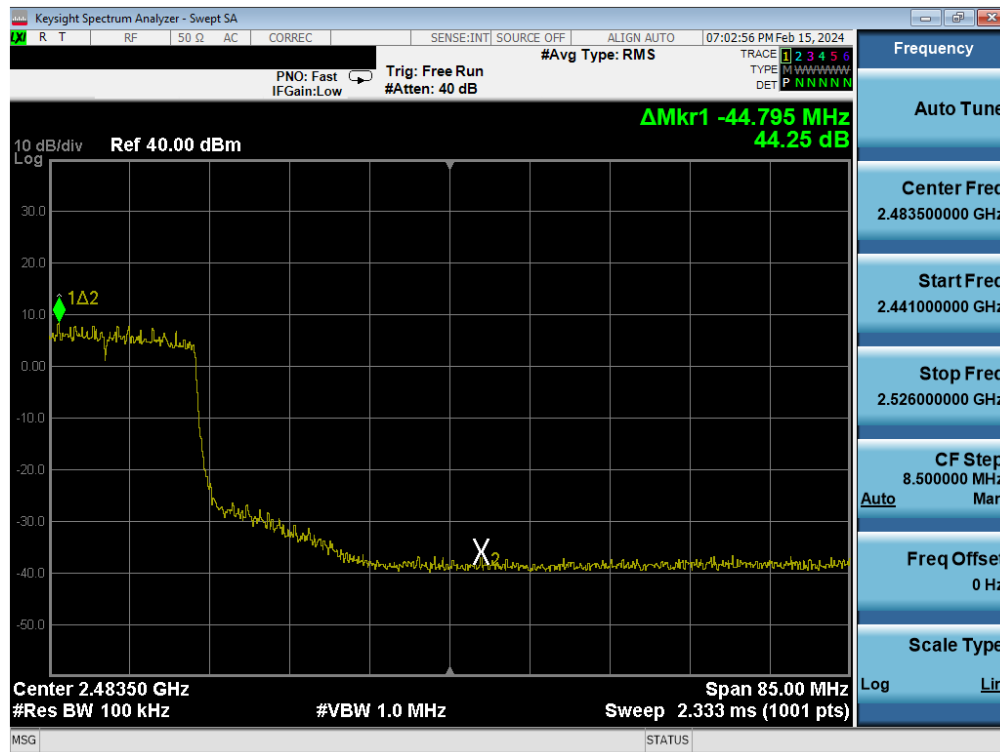


Plot 7-363. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 7) - MCS9

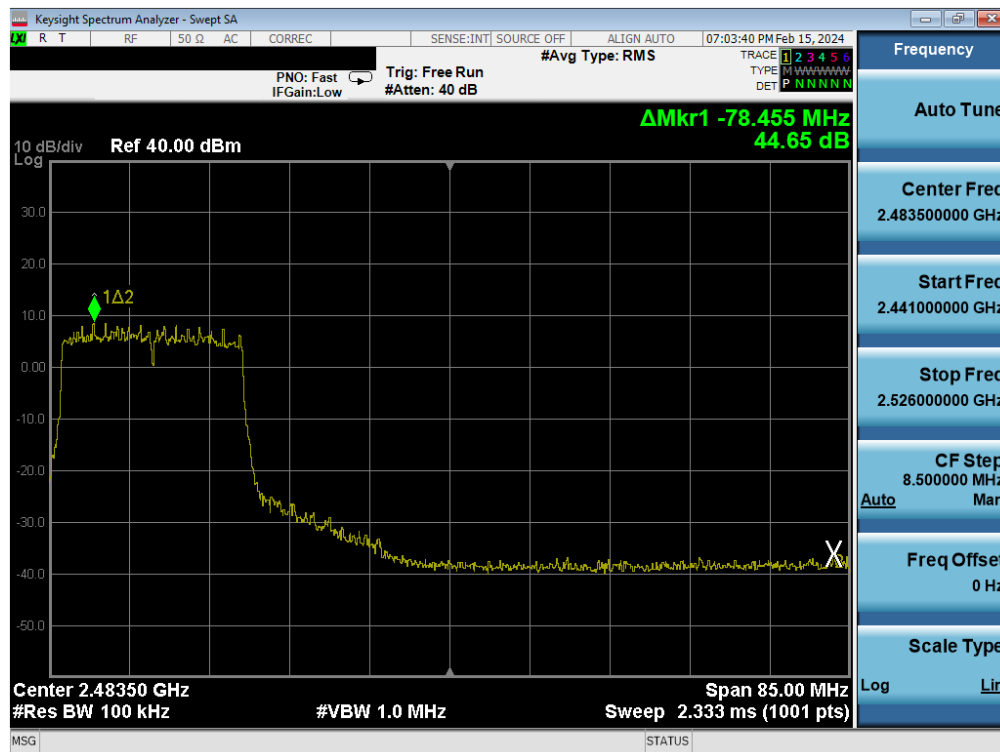
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 225 of 372

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Plot 7-364. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 8) - MCS9

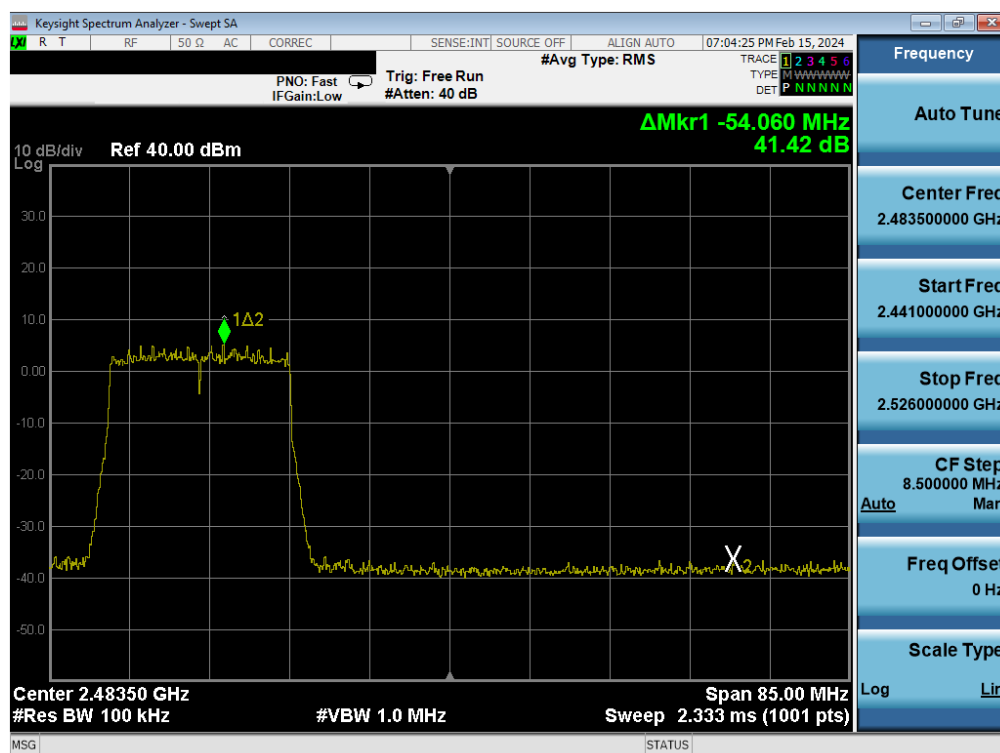


Plot 7-365. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) - Ch. 9) - MCS9

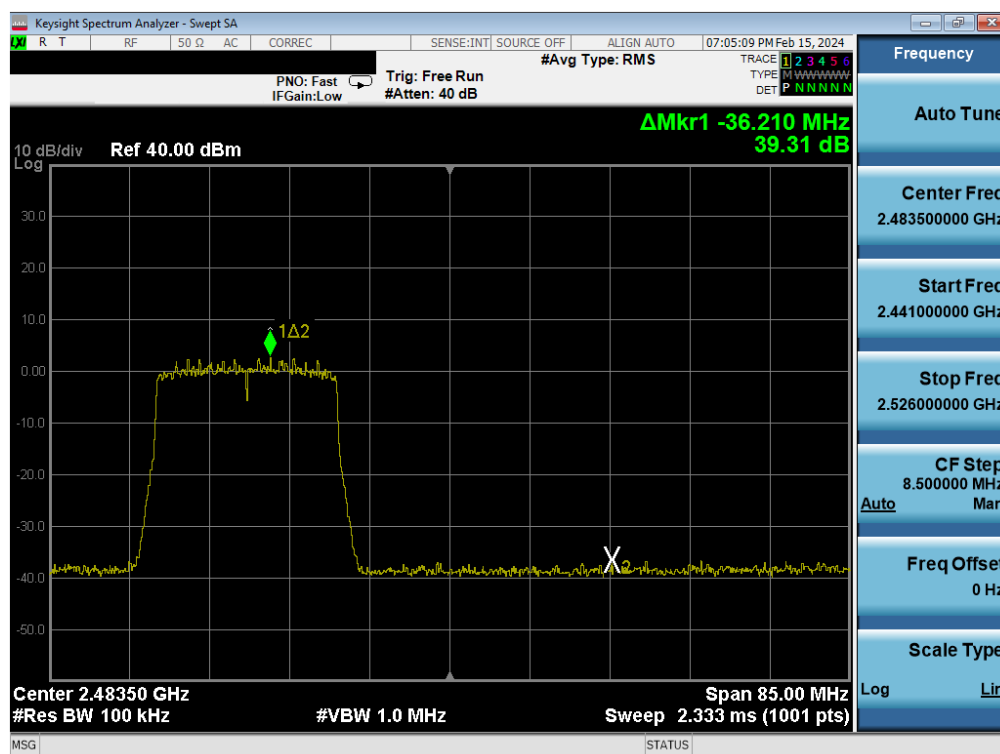
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 226 of 372

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Plot 7-366. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS9

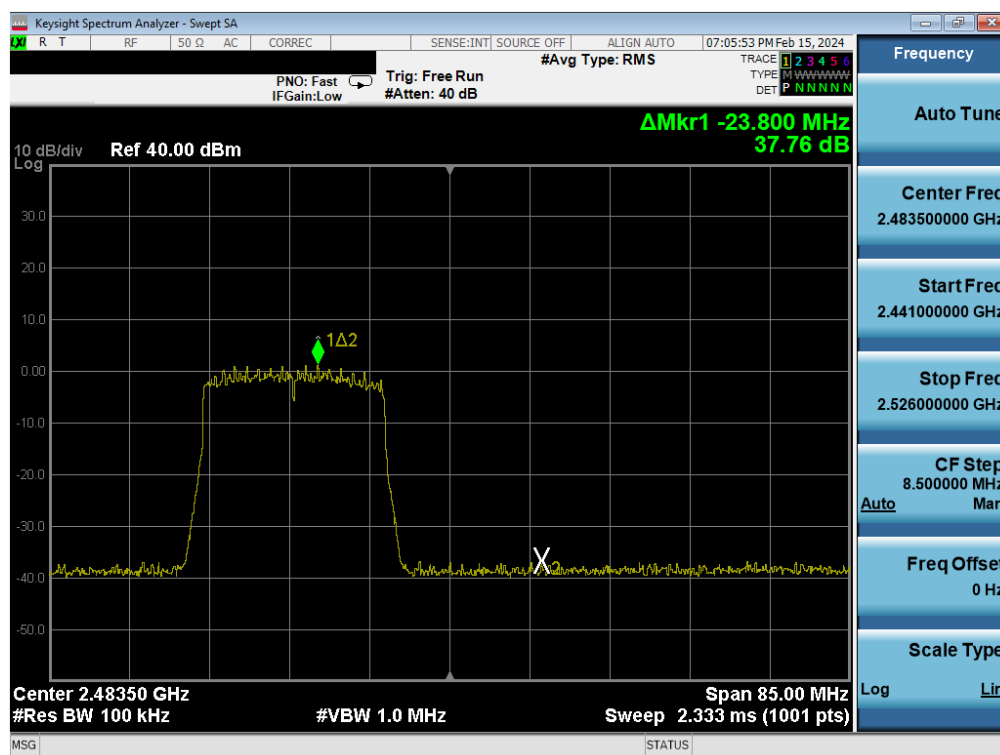


Plot 7-367. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS9

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-14.BCG	Test Dates: 1/8/2024 - 3/15/2024	EUT Type: Tablet Device	Page 227 of 372

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Plot 7-368. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS9

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6 Conducted Spurious Emissions

§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, the EUT was investigated in all available data rates for “b”, “g”, “n”, “ax-SU” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 11 Mbps and are shown in the plots below.

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 11.11 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10-2013 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10-2013 – Subclause 14.3.3
KDB 662911 D01 v02r01 – Section E)3)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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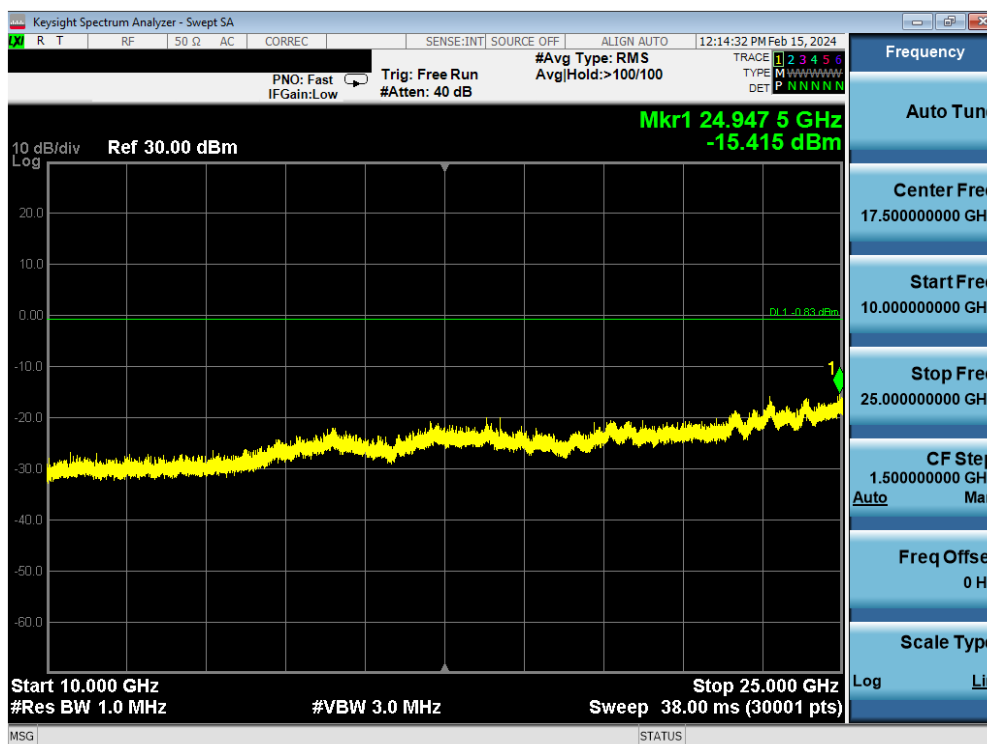
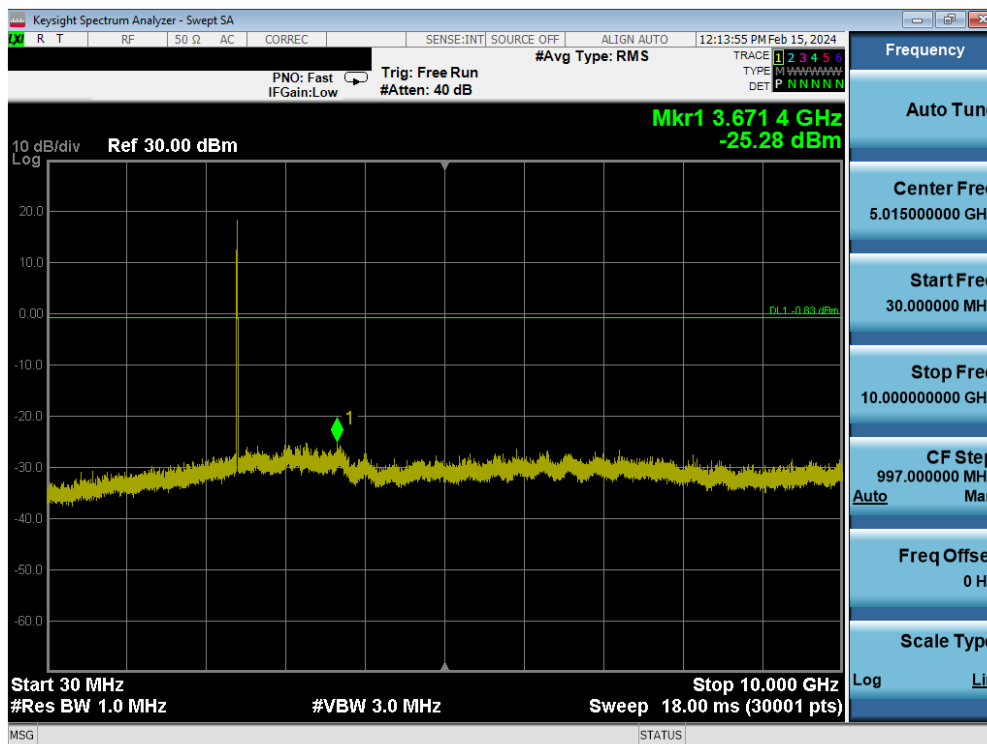
Test Notes

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. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
5. All modes, data rates, and antenna configurations were investigated and only the worse case is reported.

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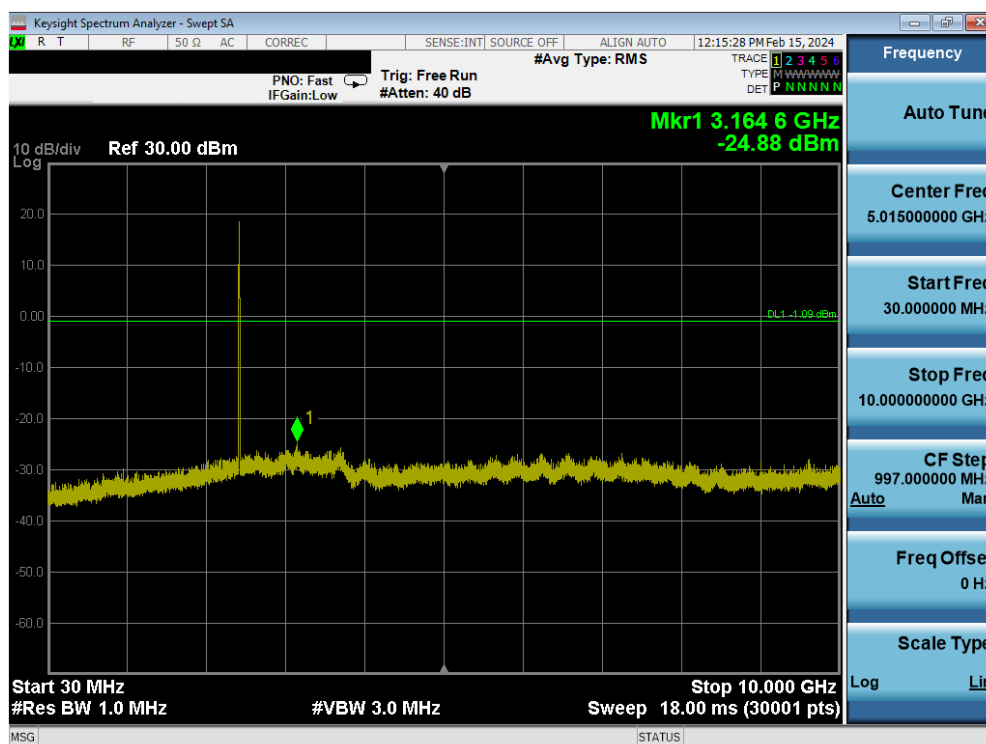
7.6.1 Antenna 4a Conducted Spurious Emission



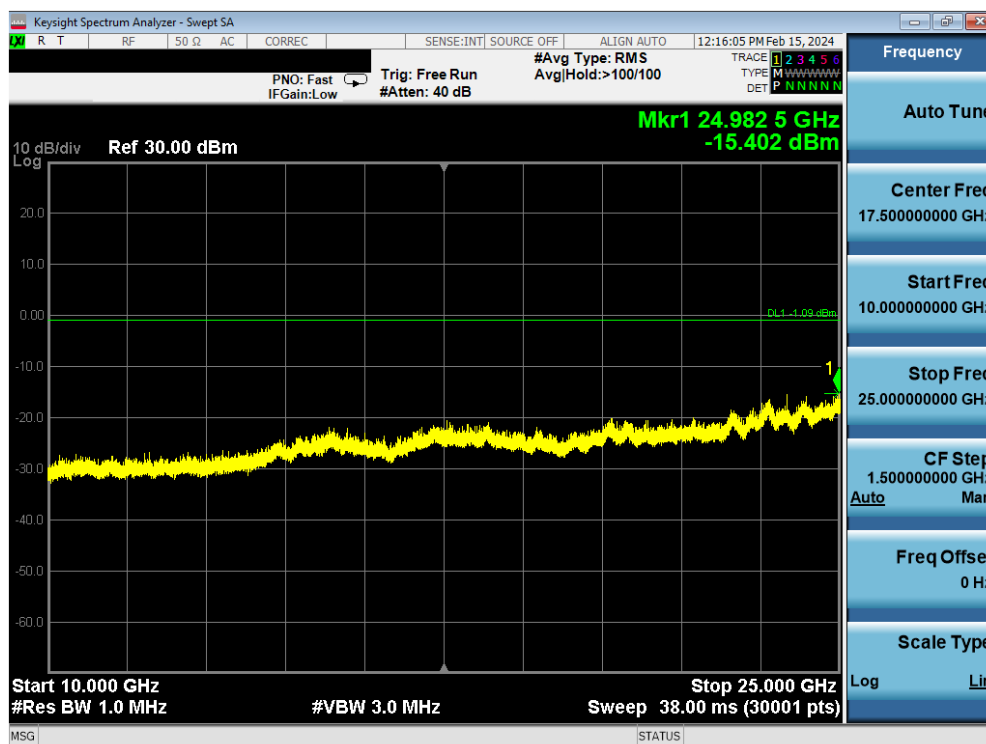
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-371. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 6)

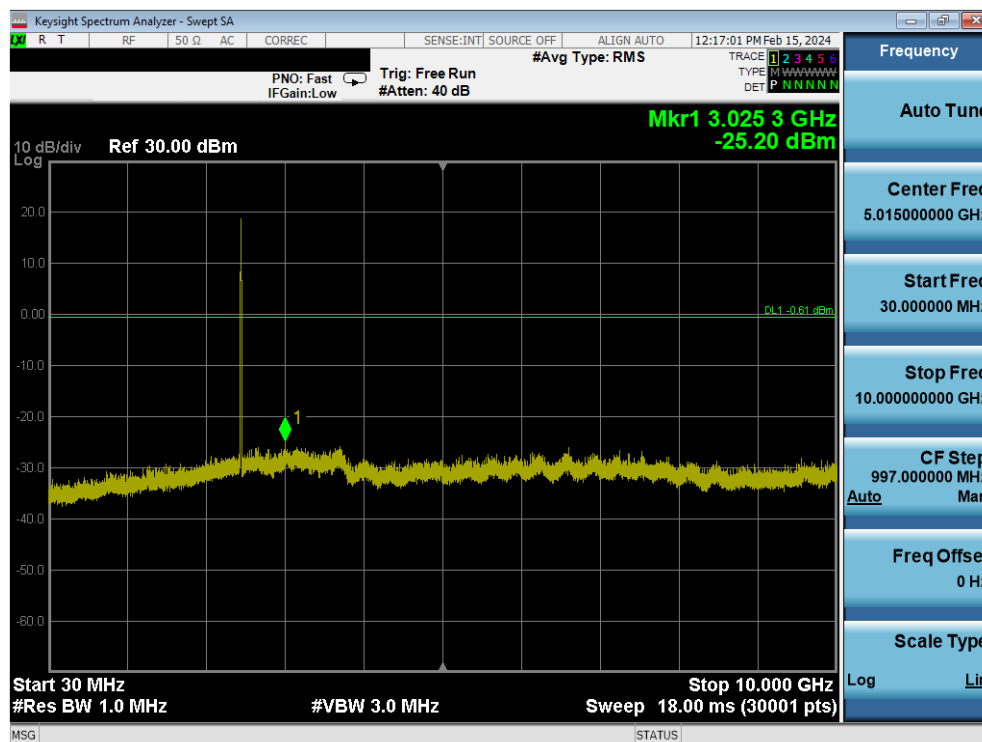


Plot 7-372. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 6)

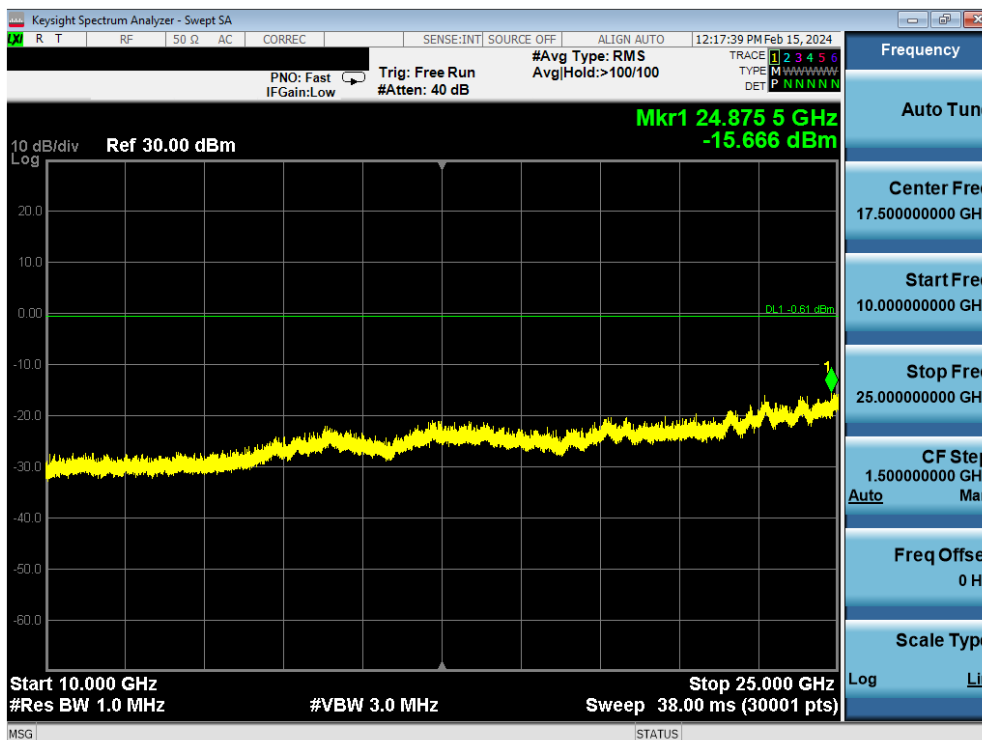
FCC ID: BCGA2837 IC: 579C-A2837	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-373. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 11)



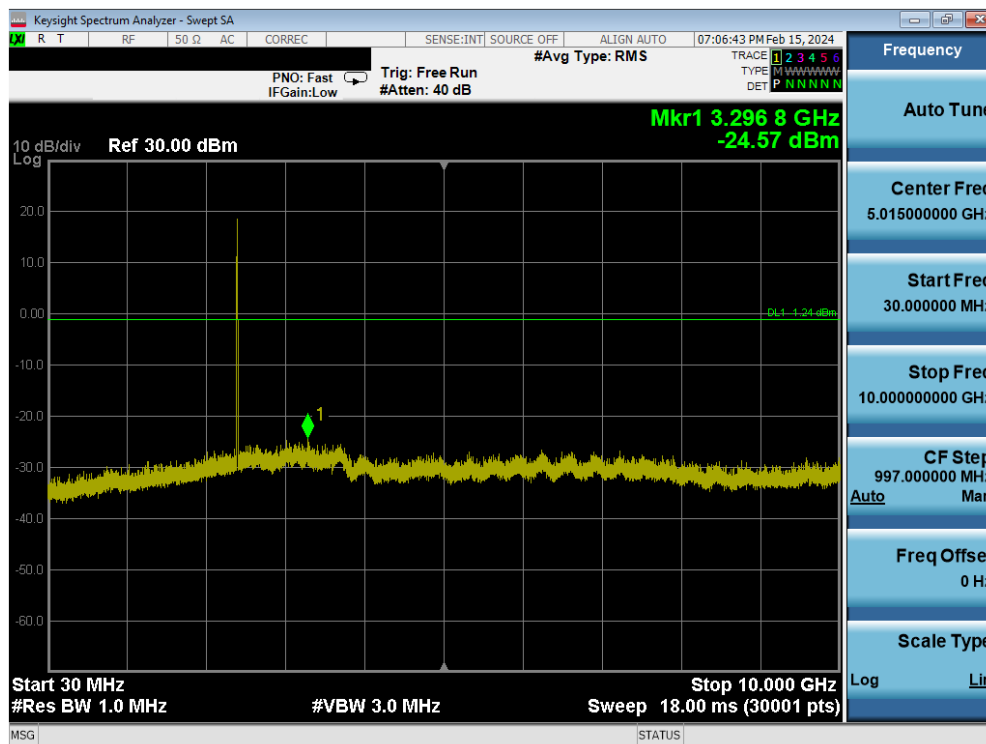
Plot 7-374. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 11)

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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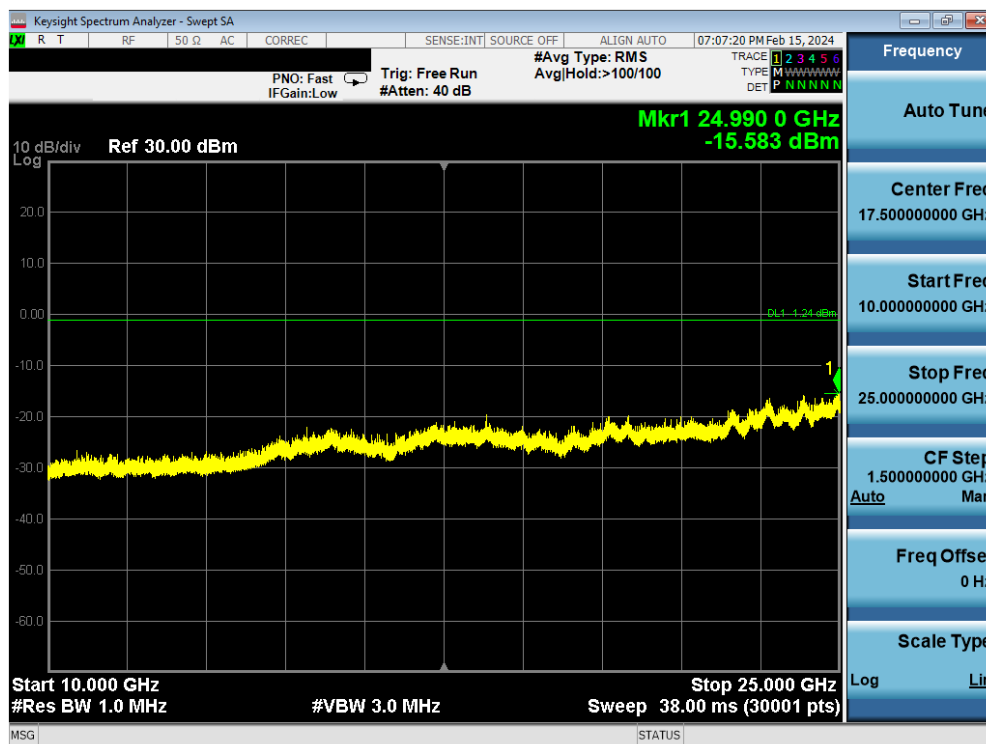
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7.6.2 Antenna 2a Conducted Spurious Emissions



Plot 7-375. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 1)

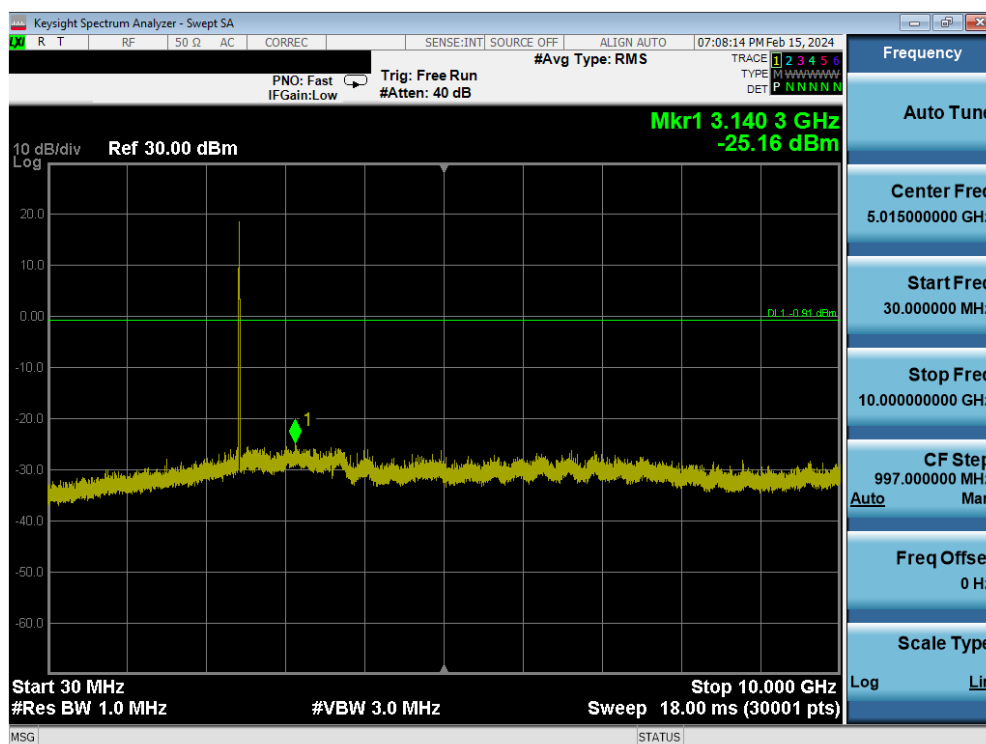


Plot 7-376. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 1)

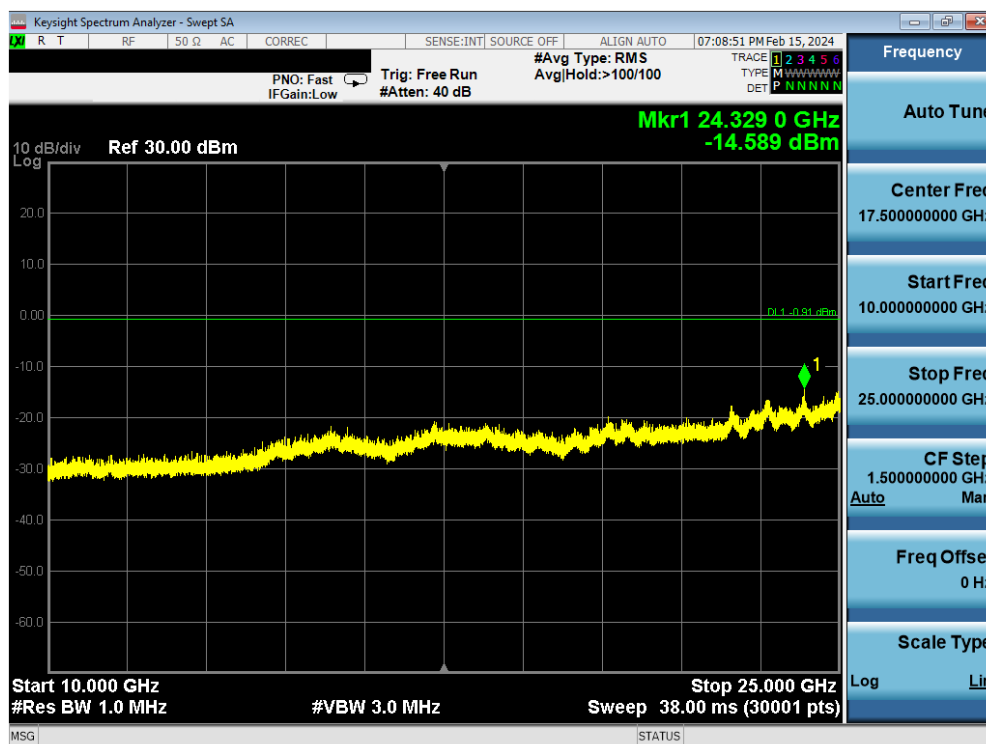
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-377. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 6)

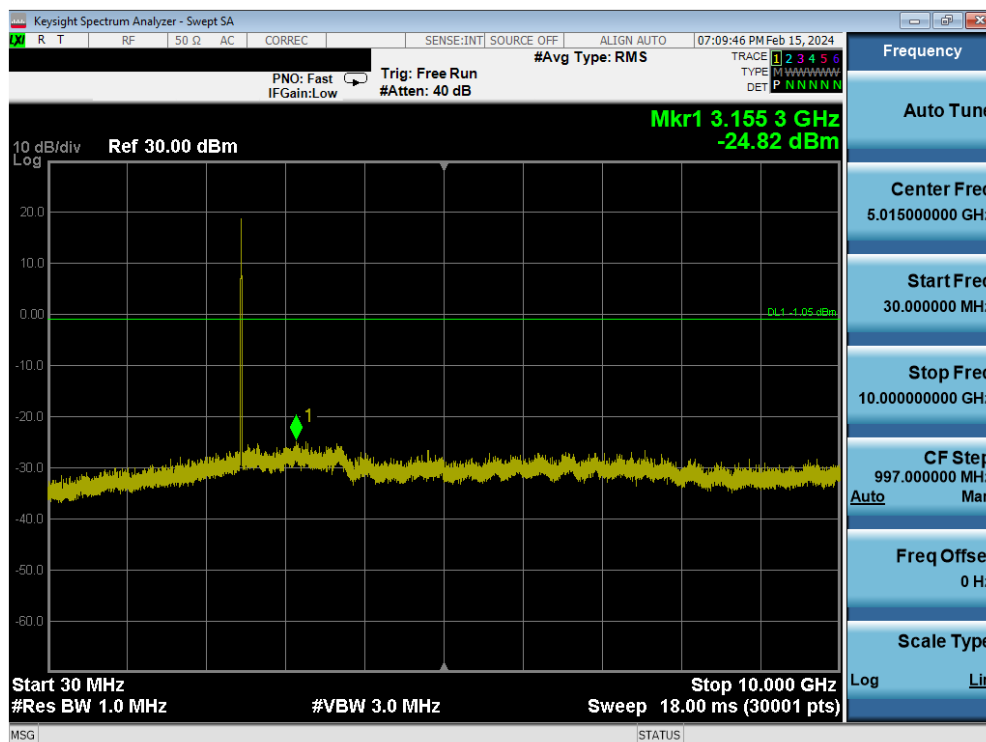


Plot 7-378. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 6)

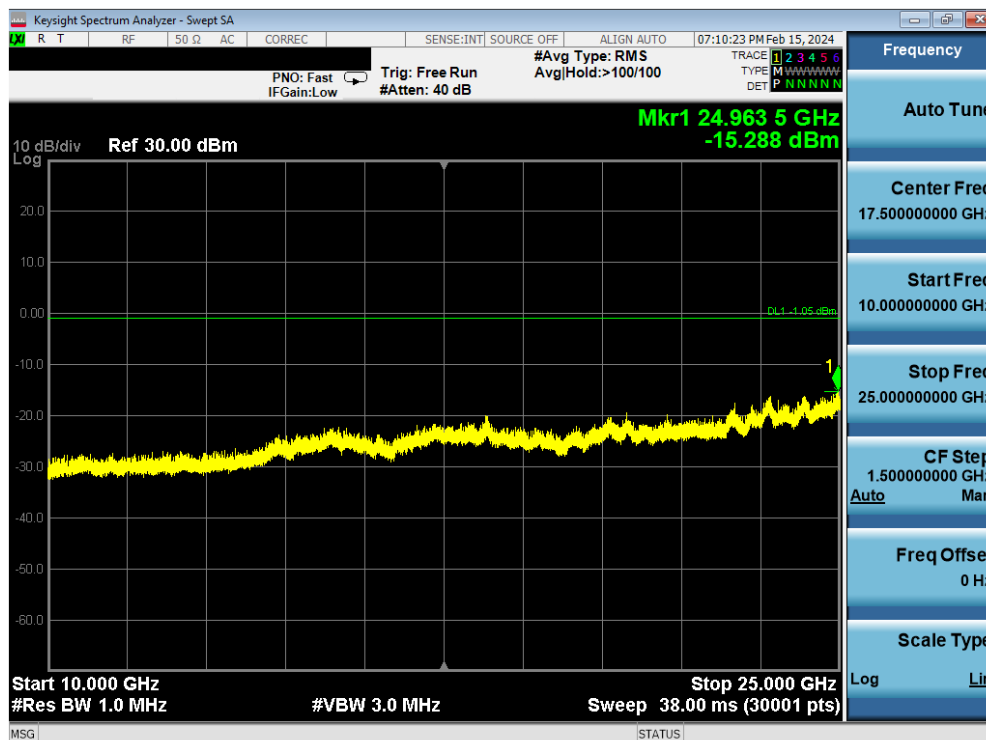
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-379. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 11)



Plot 7-380. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 11)

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7.7 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §15.205 & §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 7-47 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-47. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Subclause 6.6.4.3

KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average 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 = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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.

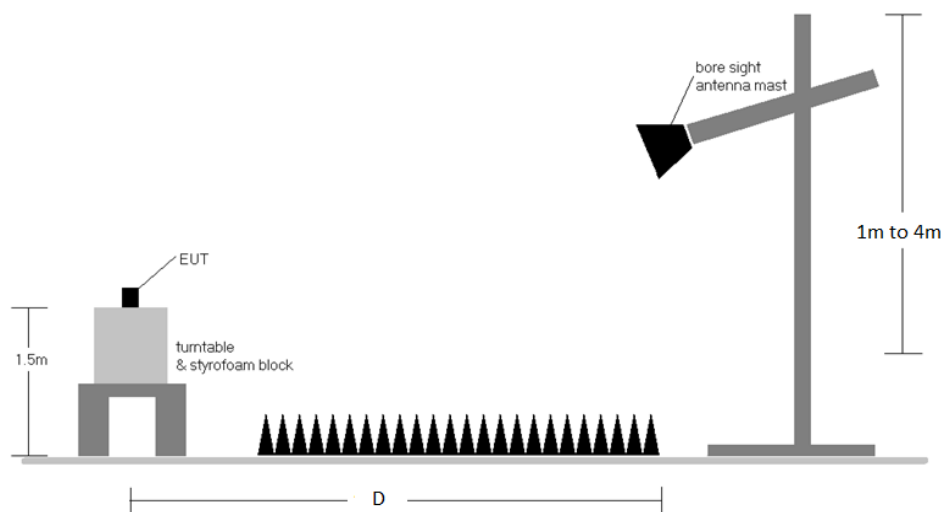


Figure 7-6. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-47.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
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 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. All antenna configurations were investigated and only the worst case is reported.
10. The unit was tested with all possible modes and only the highest emission is reported.

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Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

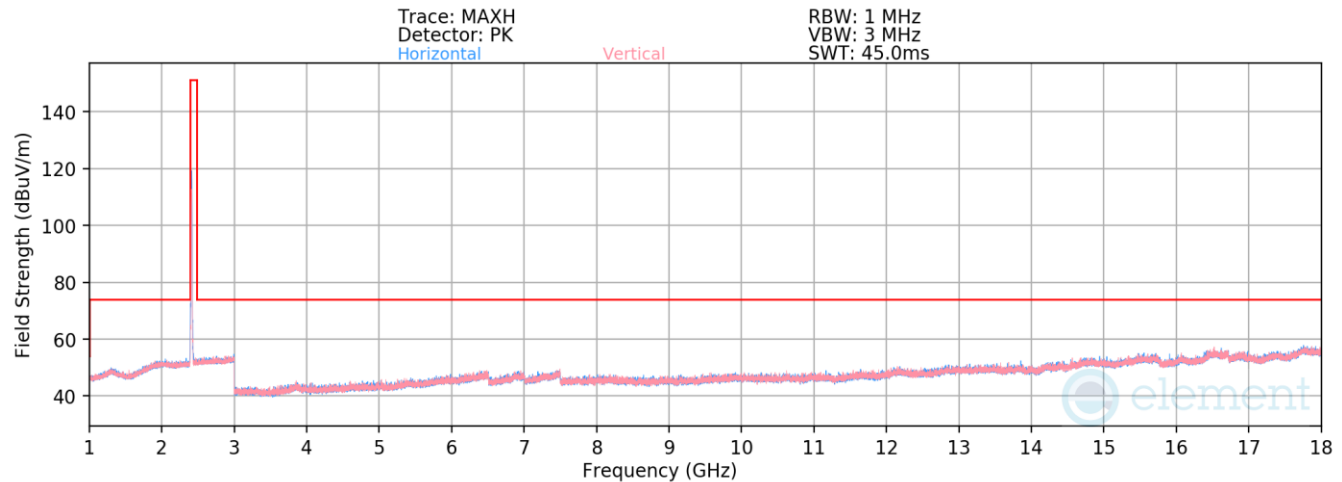
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.4, 7.7.5, and 7.7.6 were calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 Antenna 4a Radiated Spurious Emission Measurements

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



Plot 7-381. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11b – Ch. 1)

Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

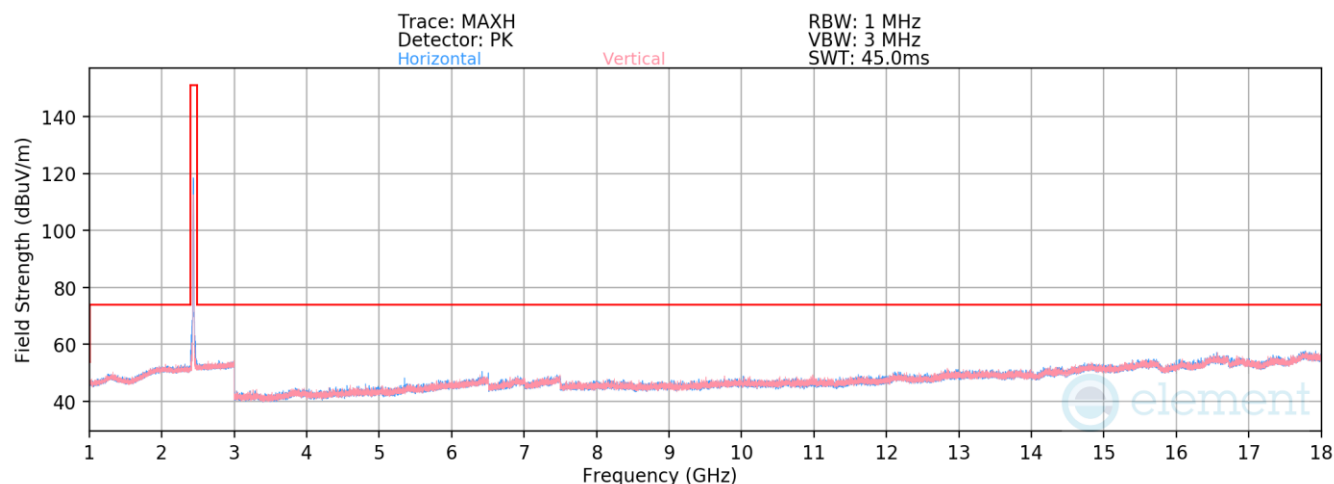
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Average	H	-	-	-77.49	4.22	33.72	53.98	-20.26
4824.00	Peak	H	-	-	-65.53	4.22	45.69	73.98	-28.29
12060.00	Average	H	-	-	-80.20	12.13	38.93	53.98	-15.05
12060.00	Peak	H	-	-	-68.03	11.75	50.71	73.98	-23.27

Table 7-48. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-382. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11b – Ch. 6)

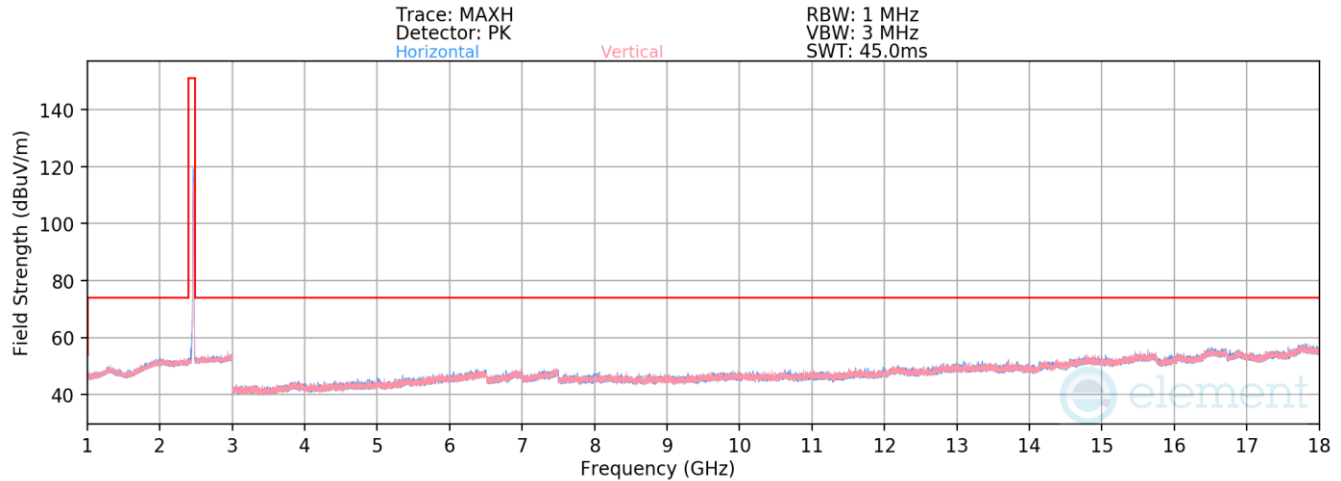
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

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]
4874.00	Average	H	-	-	-77.47	4.32	33.86	53.98	-20.12
4874.00	Peak	H	-	-	-65.96	4.32	45.36	73.98	-28.62
7311.00	Average	H	-	-	-78.39	8.84	37.45	53.98	-16.53
7311.00	Peak	H	-	-	-66.79	8.75	48.96	73.98	-25.02
12185.00	Average	H	-	-	-80.59	12.49	38.90	53.98	-15.08
12185.00	Peak	H	-	-	-68.93	12.46	50.53	73.98	-23.45

Table 7-49. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-383. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11b – Ch. 11)

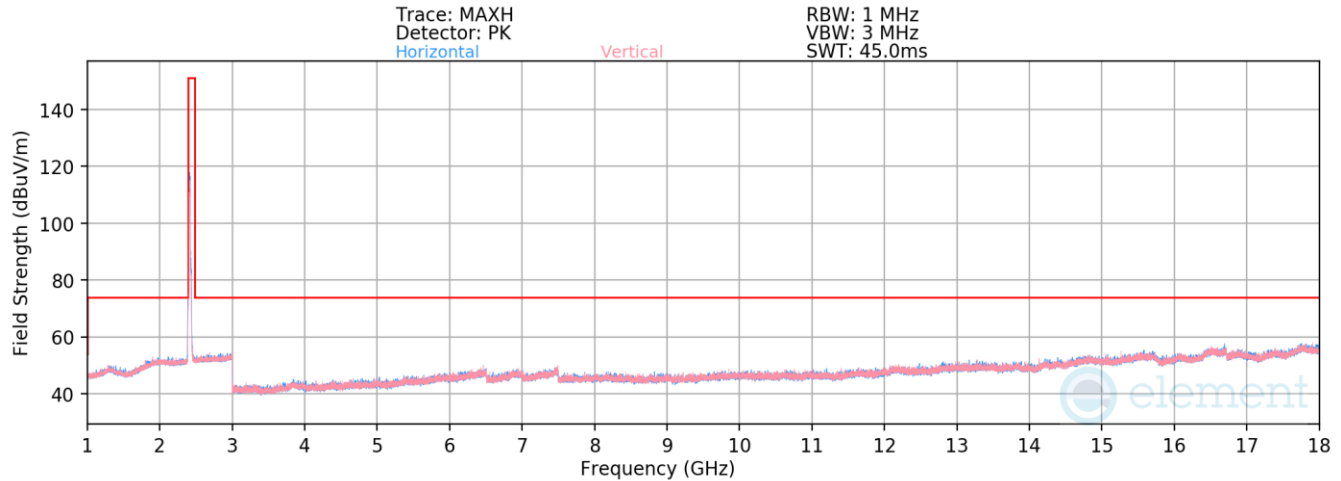
Mode: 802.11b
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

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]
4924.00	Average	H	-	-	-77.48	4.19	33.71	53.98	-20.27
4924.00	Peak	H	-	-	-65.73	4.31	45.57	73.98	-28.41
7386.00	Average	H	-	-	-78.17	8.52	37.34	53.98	-16.64
7386.00	Peak	H	-	-	-66.49	8.52	49.03	73.98	-24.95
12310.00	Average	H	-	-	-80.69	12.43	38.74	53.98	-15.24
12310.00	Peak	H	-	-	-68.67	12.48	50.81	73.98	-23.17

Table 7-50. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-384. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax(SU) – Ch. 1)

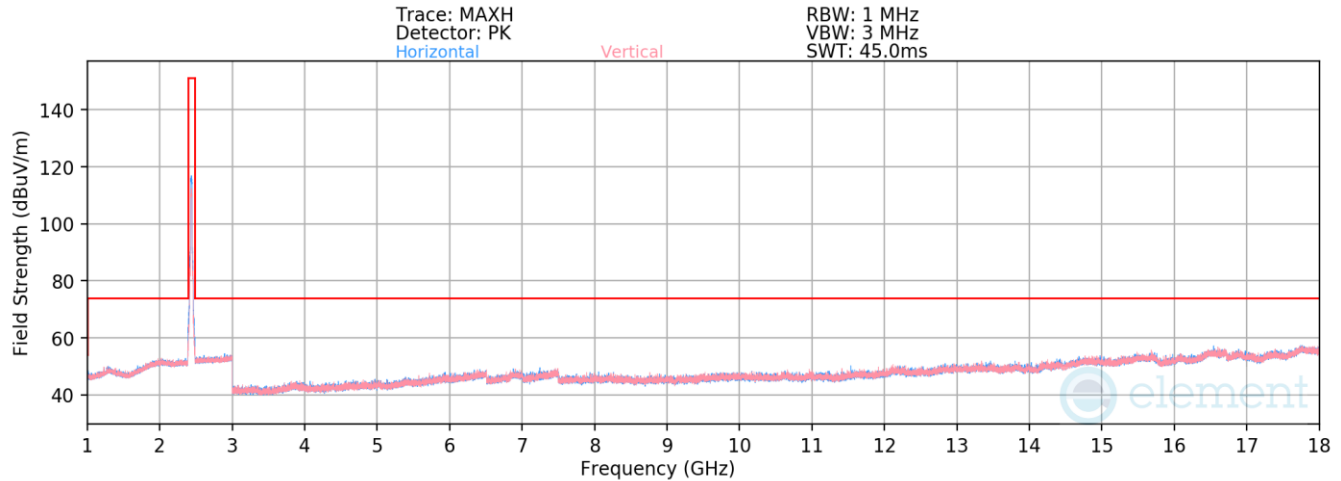
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

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]
4824.00	Average	H	-	-	-77.37	4.22	33.84	53.98	-20.14
4824.00	Peak	H	-	-	-66.04	4.22	45.17	73.98	-28.81
12060.00	Average	H	-	-	-79.95	12.13	39.18	53.98	-14.80
12060.00	Peak	H	-	-	-68.88	12.13	50.25	73.98	-23.73

Table 7-51. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-385. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax(SU) – Ch. 6)

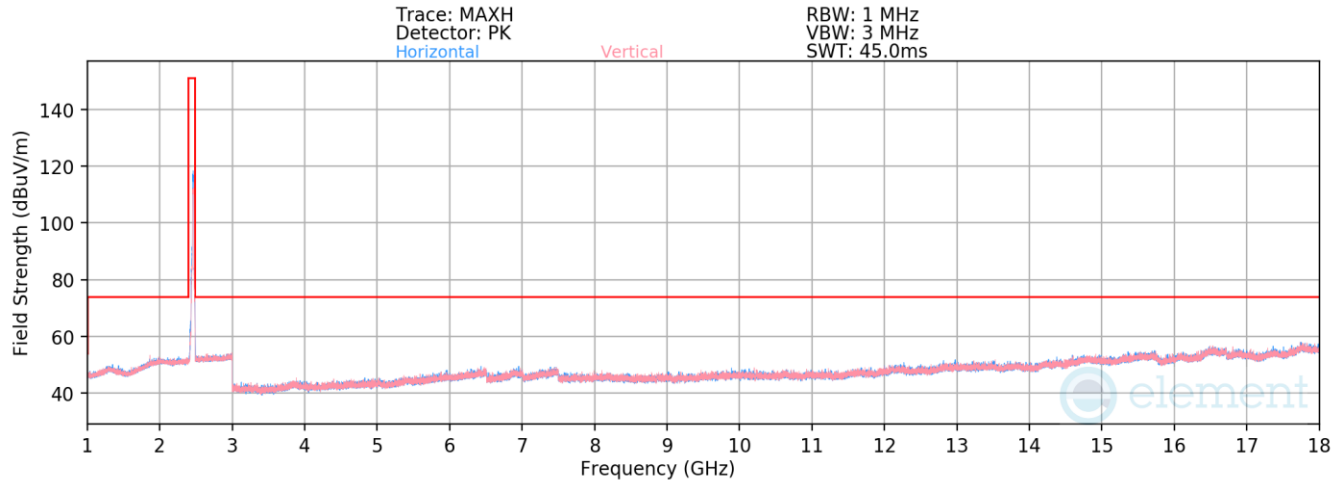
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

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]
4874.00	Average	H	-	-	-77.68	4.32	33.64	53.98	-20.34
4874.00	Peak	H	-	-	-66.17	4.25	45.08	73.98	-28.90
7311.00	Average	H	-	-	-78.60	8.84	37.24	53.98	-16.74
7311.00	Peak	H	-	-	-67.06	8.75	48.69	73.98	-25.29
12185.00	Average	H	-	-	-80.27	12.46	39.19	53.98	-14.79
12185.00	Peak	H	-	-	-68.86	12.28	50.42	73.98	-23.56

Table 7-52. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-386. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11ax(SU) - Ch. 11)

Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

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]
4924.00	Average	H	-	-	-77.61	4.31	33.70	53.98	-20.28
4924.00	Peak	H	-	-	-65.93	4.31	45.38	73.98	-28.60
7386.00	Average	H	-	-	-78.38	8.69	37.30	53.98	-16.68
7386.00	Peak	H	-	-	-66.40	8.52	49.12	73.98	-24.86
12310.00	Average	H	-	-	-80.63	12.43	38.80	53.98	-15.18
12310.00	Peak	H	-	-	-69.07	12.43	50.36	73.98	-23.62

Table 7-53. Radiated Measurements Antenna 4a

FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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