

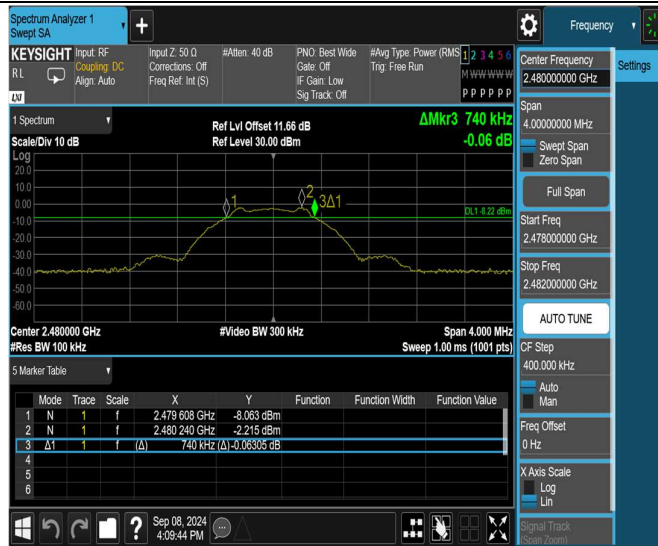
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.740	2401.608	2402.348	0.5	PASS
		2440	0.748	2439.604	2440.352	0.5	PASS
		2480	0.740	2479.608	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.388	2401.288	2402.676	0.5	PASS
		2440	1.424	2439.260	2440.684	0.5	PASS
		2480	1.480	2479.228	2480.708	0.5	PASS

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



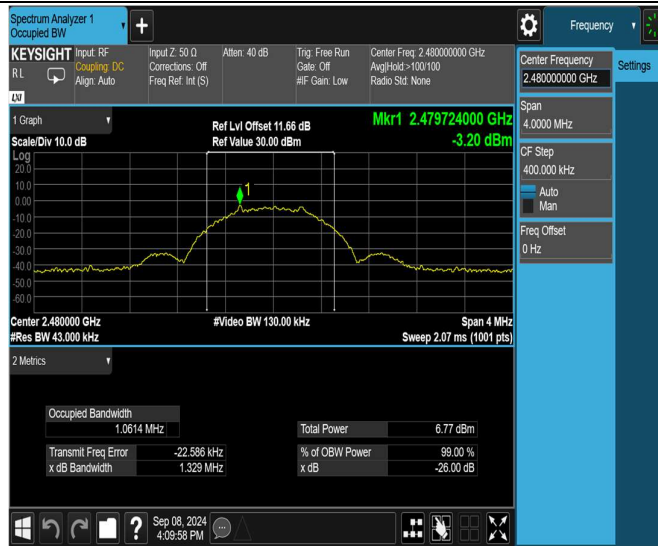
Appendix B: Occupied Channel Bandwidth

Test Result

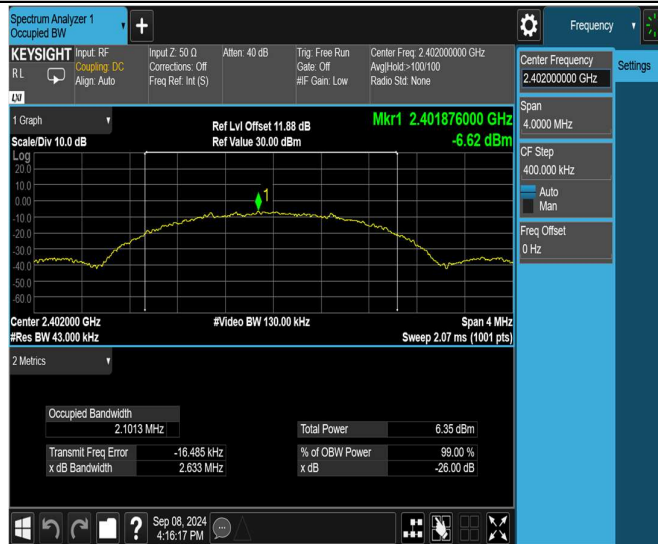
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0658	2401.4451	2402.5109	---	---
		2440	1.0776	2439.4373	2440.5149	---	---
		2480	1.0640	2479.4452	2480.5092	---	---
BLE_2M	Ant1	2402	2.1026	2400.9323	2403.0349	---	---
		2440	2.0960	2438.9312	2441.0272	---	---
		2480	2.1086	2478.9178	2481.0264	---	---

Test Graphs

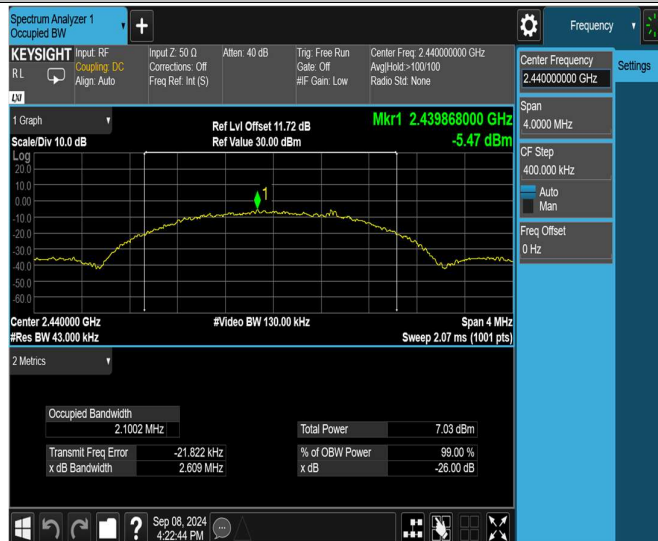




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



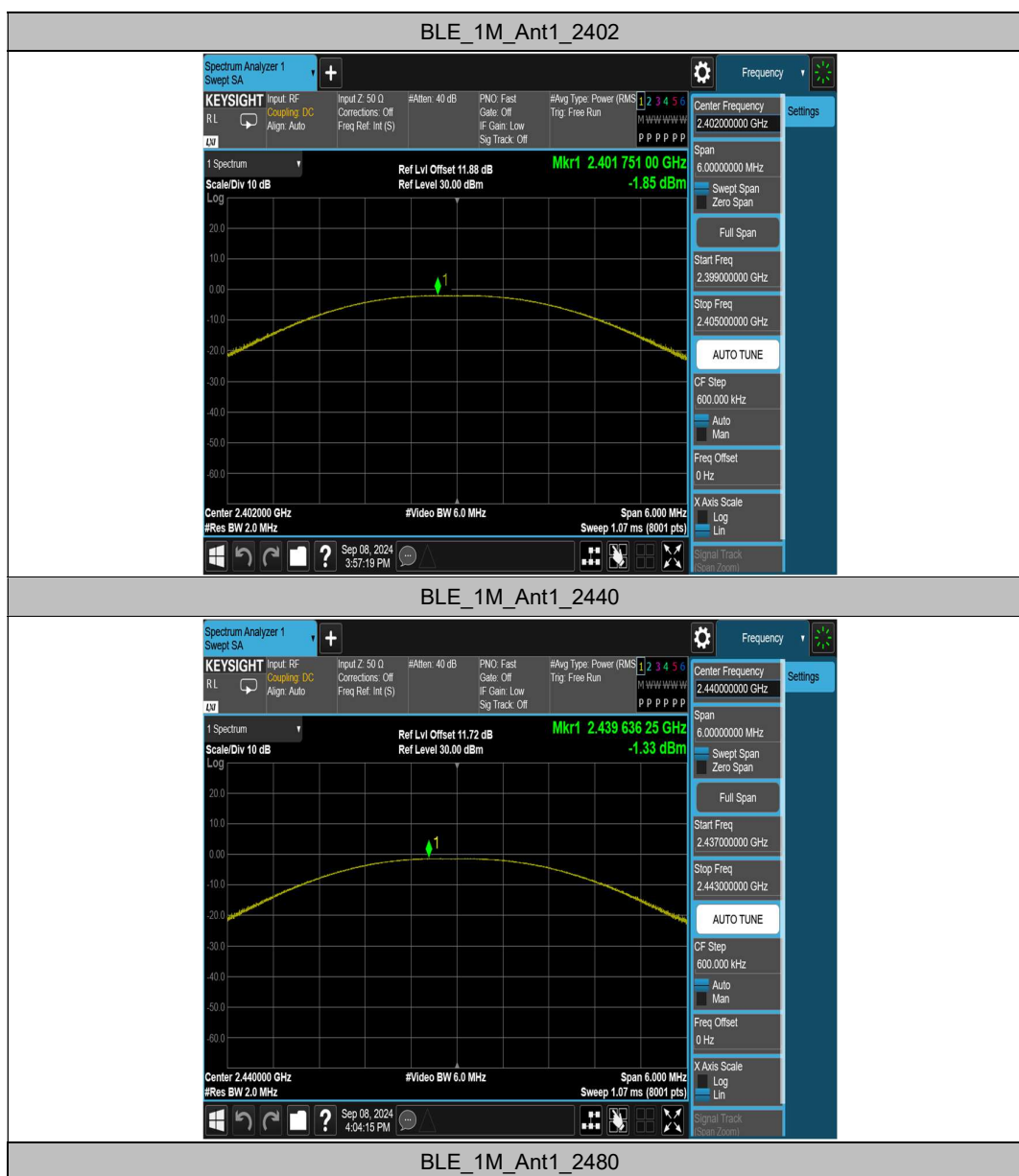


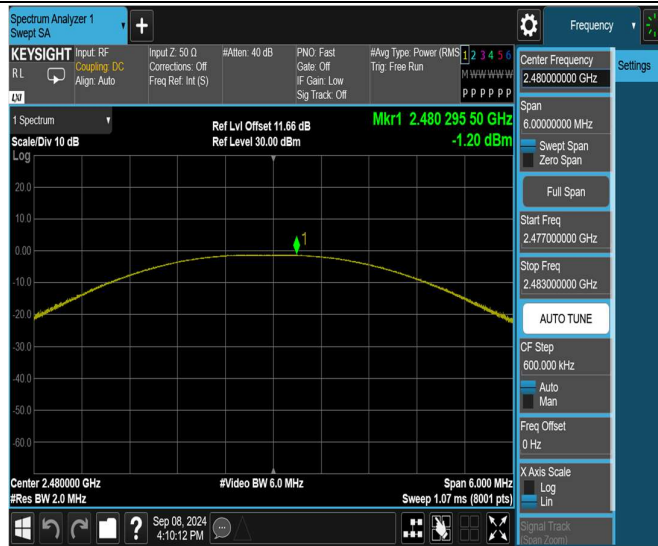
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.85	≤30	0.85	≤36	PASS
		2440	-1.33	≤30	1.37	≤36	PASS
		2480	-1.20	≤30	1.50	≤36	PASS
BLE_2M	Ant1	2402	-1.91	≤30	0.79	≤36	PASS
		2440	-1.29	≤30	1.41	≤36	PASS
		2480	-1.26	≤30	1.44	≤36	PASS

Test Graphs Peak





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

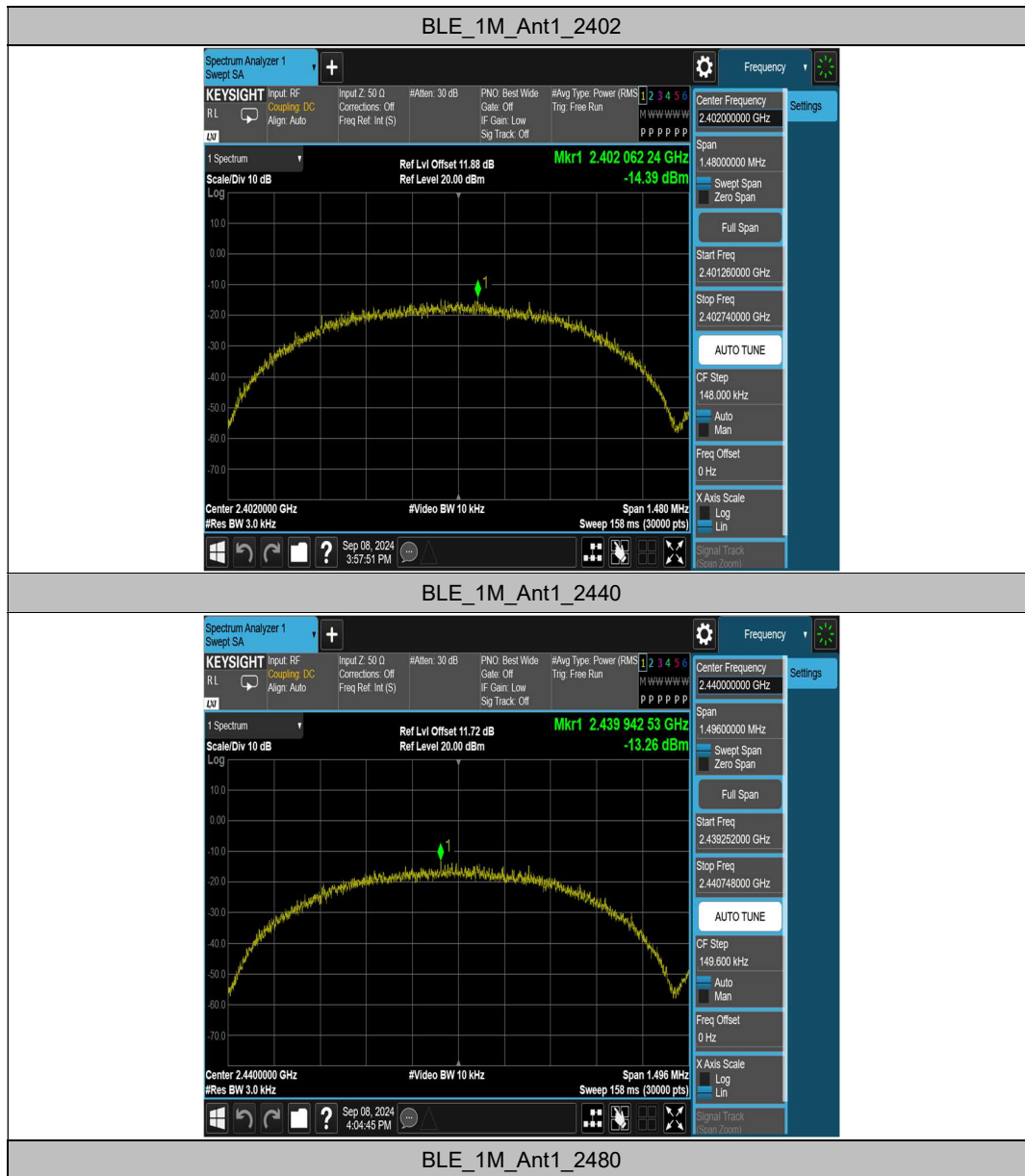


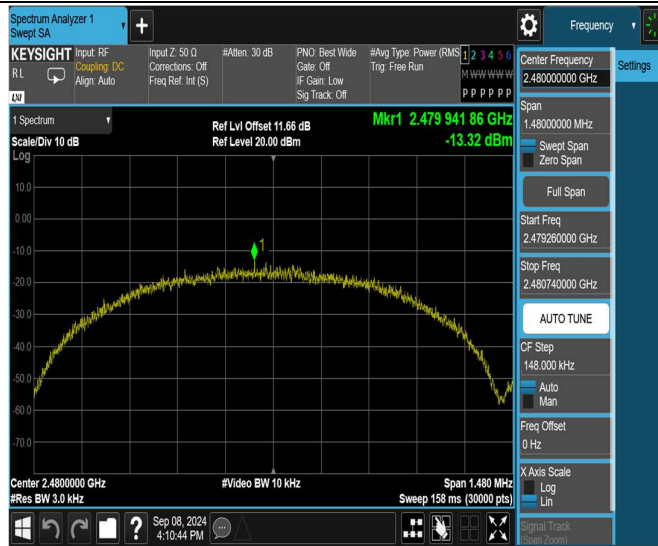
Appendix D: Maximum power spectral density

Test Result

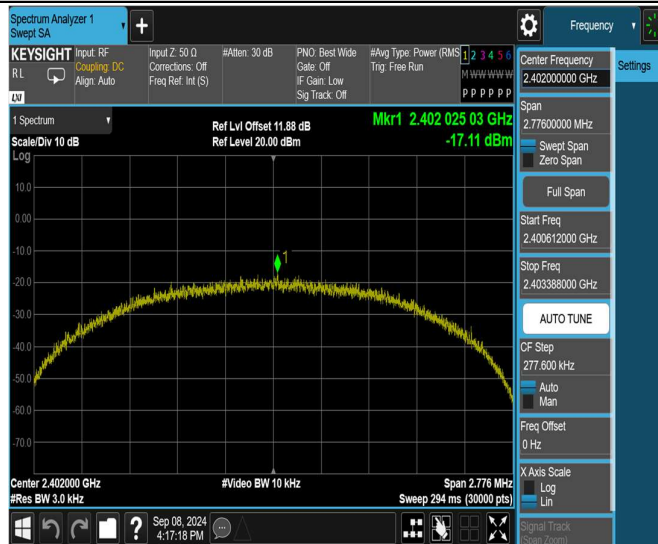
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.39	≤8.00	PASS
		2440	-13.27	≤8.00	PASS
		2480	-13.32	≤8.00	PASS
BLE_2M	Ant1	2402	-17.11	≤8.00	PASS
		2440	-16.42	≤8.00	PASS
		2480	-16.66	≤8.00	PASS

Test Graphs

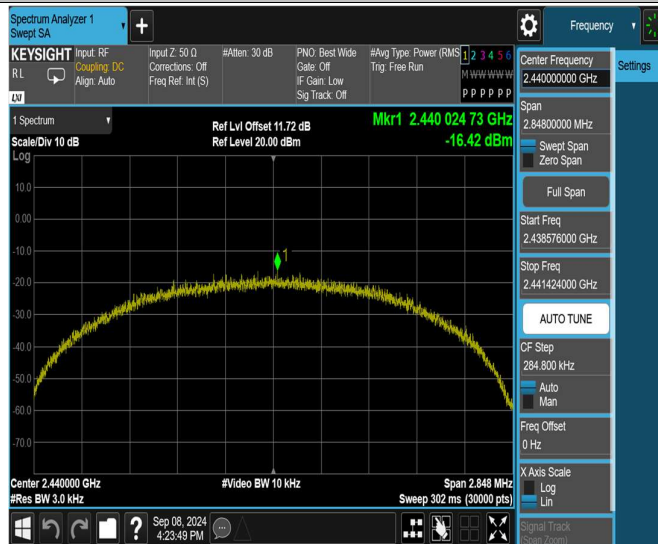




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

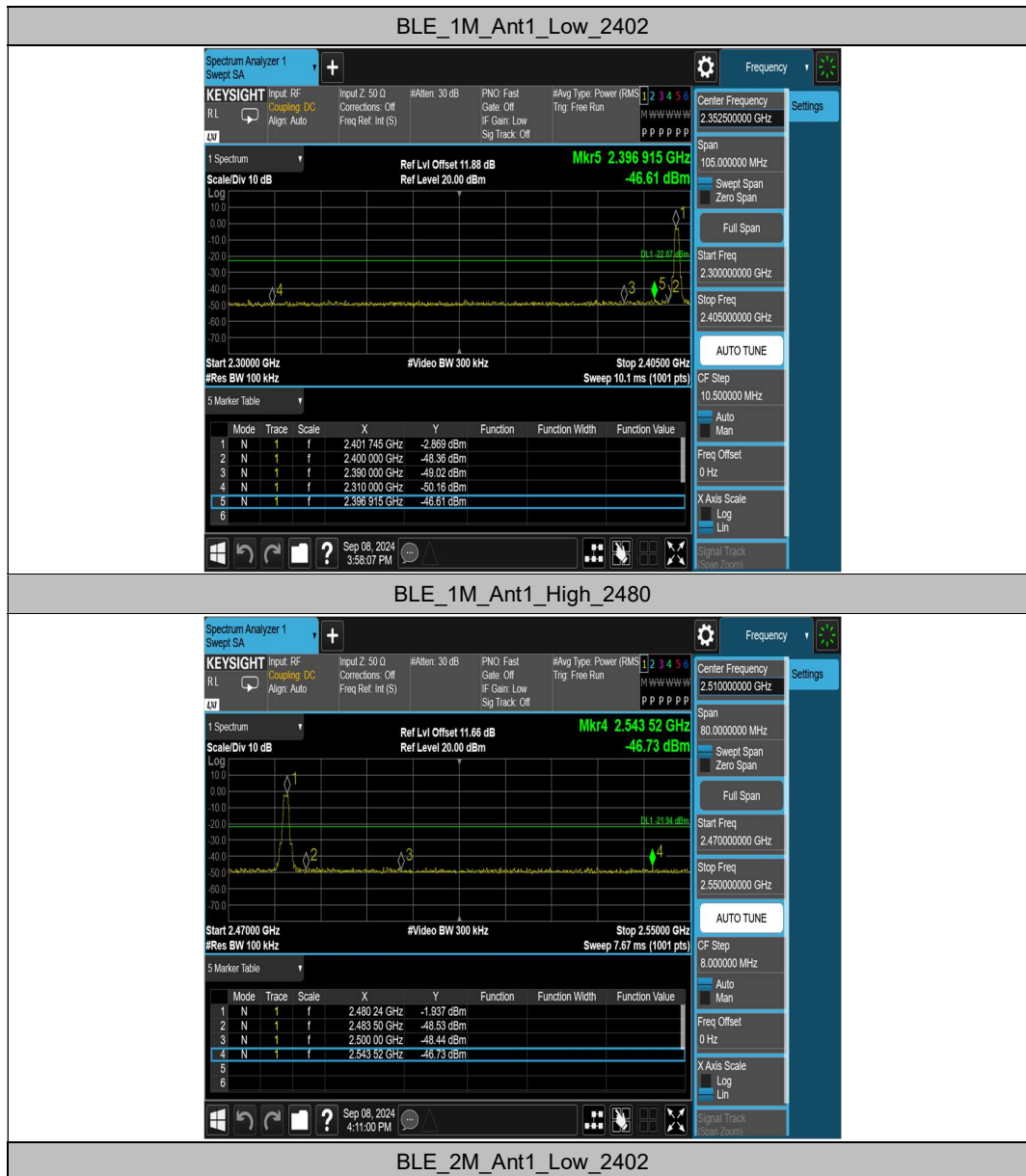


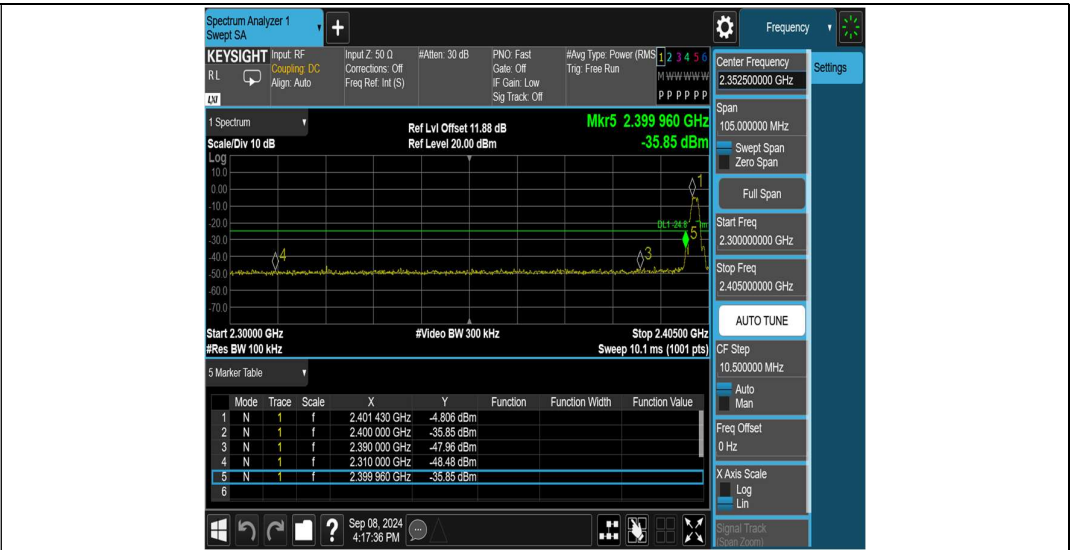
Appendix E: Band edge measurements

Test Result

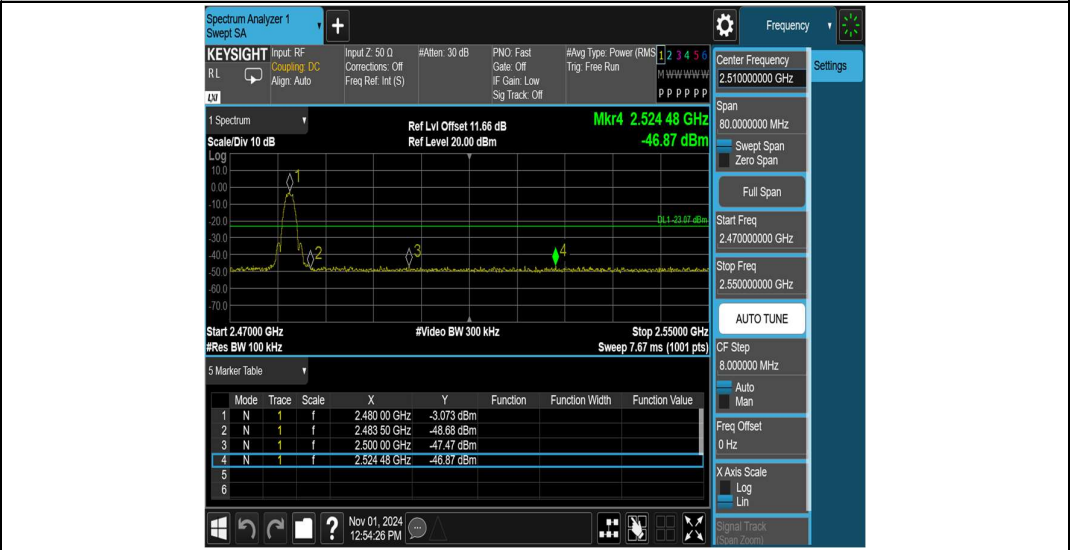
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.87	-46.61	≤-22.87	PASS
		High	2480	-1.94	-46.73	≤-21.94	PASS
BLE_2M	Ant1	Low	2402	-4.81	-35.85	≤-24.81	PASS
		High	2480	-3.07	-46.87	≤-23.07	PASS

Test Graphs





BLE_2M_Ant1_High_2480

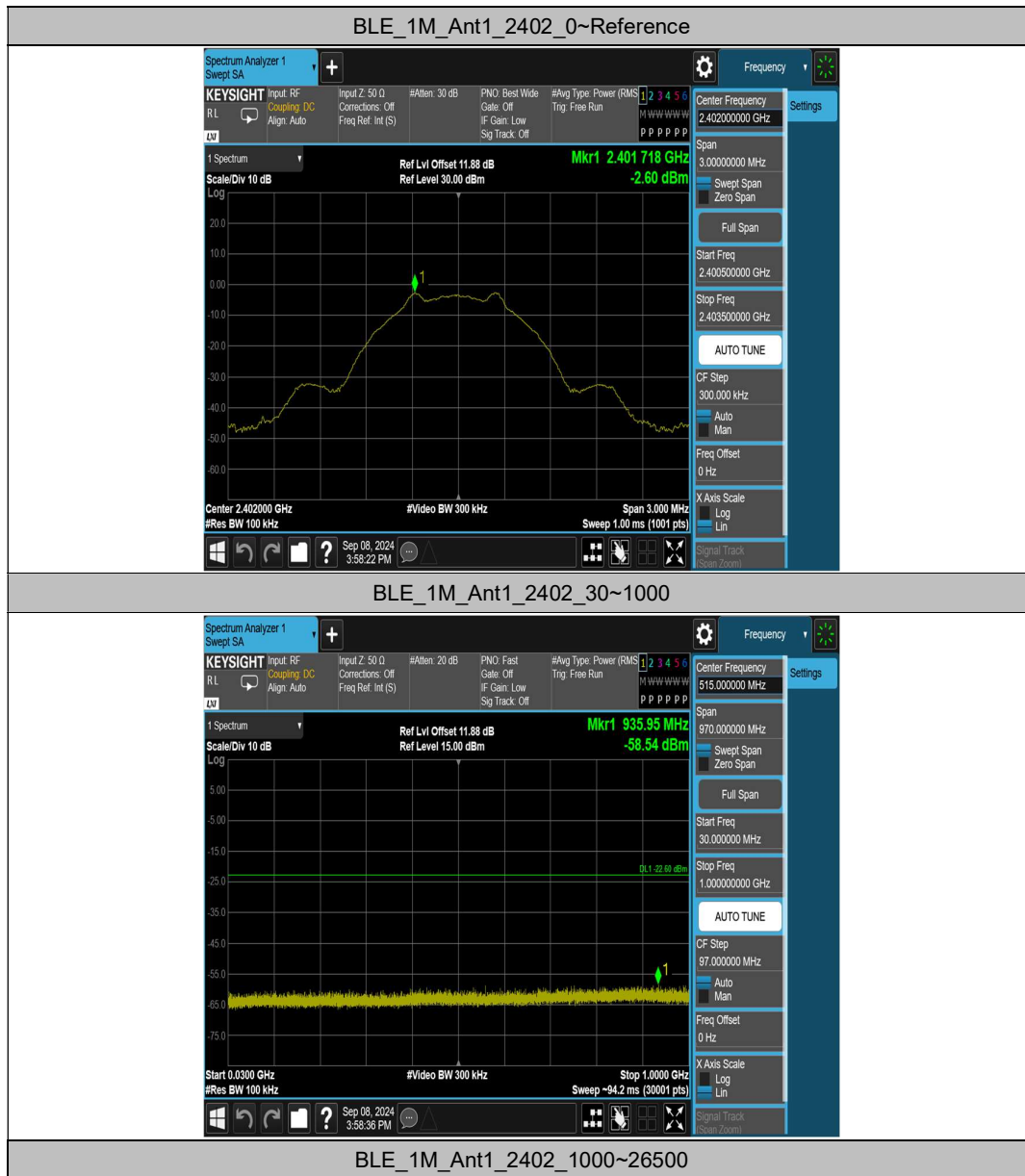


Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-58.54	≤ -22.6	PASS
			1000~26500	-2.60	-49.73	≤ -22.6	PASS
		2440	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-58.03	≤ -21.93	PASS
			1000~26500	-1.93	-50.22	≤ -21.93	PASS
		2480	Reference	-1.78	-1.78	---	PASS
			30~1000	-1.78	-58.21	≤ -21.78	PASS
			1000~26500	-1.78	-49.54	≤ -21.78	PASS
BLE_2M	Ant1	2402	Reference	-4.03	-4.03	---	PASS
			30~1000	-4.03	-58	≤ -24.03	PASS
			1000~26500	-4.03	-49.66	≤ -24.03	PASS
		2440	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-58.49	≤ -23.69	PASS
			1000~26500	-3.69	-50.13	≤ -23.69	PASS
		2480	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-58.3	≤ -23.39	PASS
			1000~26500	-3.39	-50.12	≤ -23.39	PASS

Test Graphs

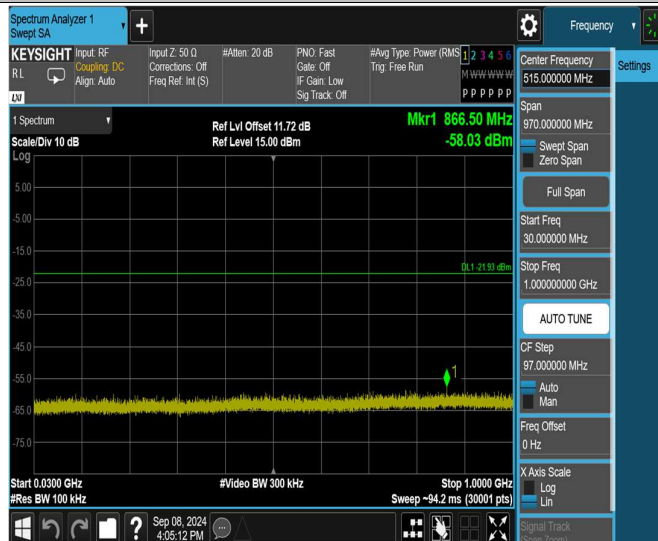




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



The screenshot displays a Spectrum Analyzer software interface. The main display area shows a signal trace with a peak labeled 'Mkr1 876.58 MHz' and a level of '-58.00 dBm'. The frequency scale is logarithmic, ranging from 50.0 to 75.0 MHz. The signal trace is yellow/green, and the background is black. The interface includes various control panels and status bars.

Top Panel:

- Spectrum Analyzer 1 Sweep SA** (Title Bar)
- KEYSIGHT** (Logo)
- Input:** RF
- Input Z:** 50 Ω
- #Att:** 20 dB
- PNO:** Fast
- #Avg Type:** Power (RMS)
- Gate:** Off
- IF Gain:** Low
- Sig Track:** Off
- Trig:** Free Run
- Frequency:** 515.000000 MHz
- Settings** (Menu)

Right Panel:

- Center Frequency:** 515.000000 MHz
- Span:** 970.000000 MHz
- Sweep Span:** Zero Span
- Full Span** (Button)
- Start Freq:** 30.000000 MHz
- Stop Freq:** 1.000000000 GHz
- AUTO TUNE** (Button)
- CF Step:** 97.000000 MHz
- Auto Man** (Buttons)
- Freq Offset:** 0 Hz
- X Axis Scale:** Log
- Lin** (Button)
- Signal Track** (Button)
- Span Zoom** (Button)

Bottom Panel:

- Start:** 0.0300 GHz
- #Video BW:** 300 kHz
- Stop:** 1.0000 GHz
- Sweep:** ~94.2 ms (30001 pts)
- Scale/Div:** 10 dB
- Log** (Button)
- Ref Lvl Offset:** 11.88 dB
- Ref Level:** 15.00 dBm
- OL1:** 24.03 dBm
- Start:** 0.0300 GHz
- #Res:** BW 100 kHz
- Stop:** 1.0000 GHz
- Sweep:** ~94.2 ms (30001 pts)

Bottom Bar:

- Windows** (Icon)
- Navigation** (Icons)
- Help** (Icon)
- Date/Time:** Sep 08, 2024 4:18:01 PM
- System** (Icons)

The screenshot displays the Keysight Spectrum Analyzer 1 Sweep SA interface. The main display shows a spectrum plot with a yellow trace. The plot is labeled with 'Mkr2 26.278 15 GHz' and '-49.66 dBm'. The plot shows a signal level of -49.66 dBm at 26.278 GHz. The plot is labeled with 'Ref Lvl Offset 11.28 dB' and 'Ref Level 15.00 dBm'. The plot is labeled with 'GL1 26.43 dBm'. The plot is labeled with 'Start 1.00 GHz' and 'Stop 26.50 GHz'. The plot is labeled with '#Res BW 100 kHz' and '#Video BW 300 kHz'. The plot is labeled with 'Sweep ~2.44 s (30001 pts)'. The plot is labeled with '5 Marker Table'.

The settings panel on the right shows the following values:

- Center Frequency: 13.750000000 GHz
- Span: 26.500000000 GHz
- Sweep Span: Zero Span
- Full Span
- Start Freq: 1.000000000 GHz
- Stop Freq: 26.500000000 GHz
- AUTO TUNE
- CF Step: 2.550000000 GHz
- Auto
- Man
- Freq Offset: 0 Hz
- X Axis Scale: Log
- Lin
- Signal Track: Span (norm)

The bottom status bar shows the date and time: Sep 08, 2024 4:19:40 PM.