

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Touch Screen Display

Test Model: CP70

Environmental Conditions

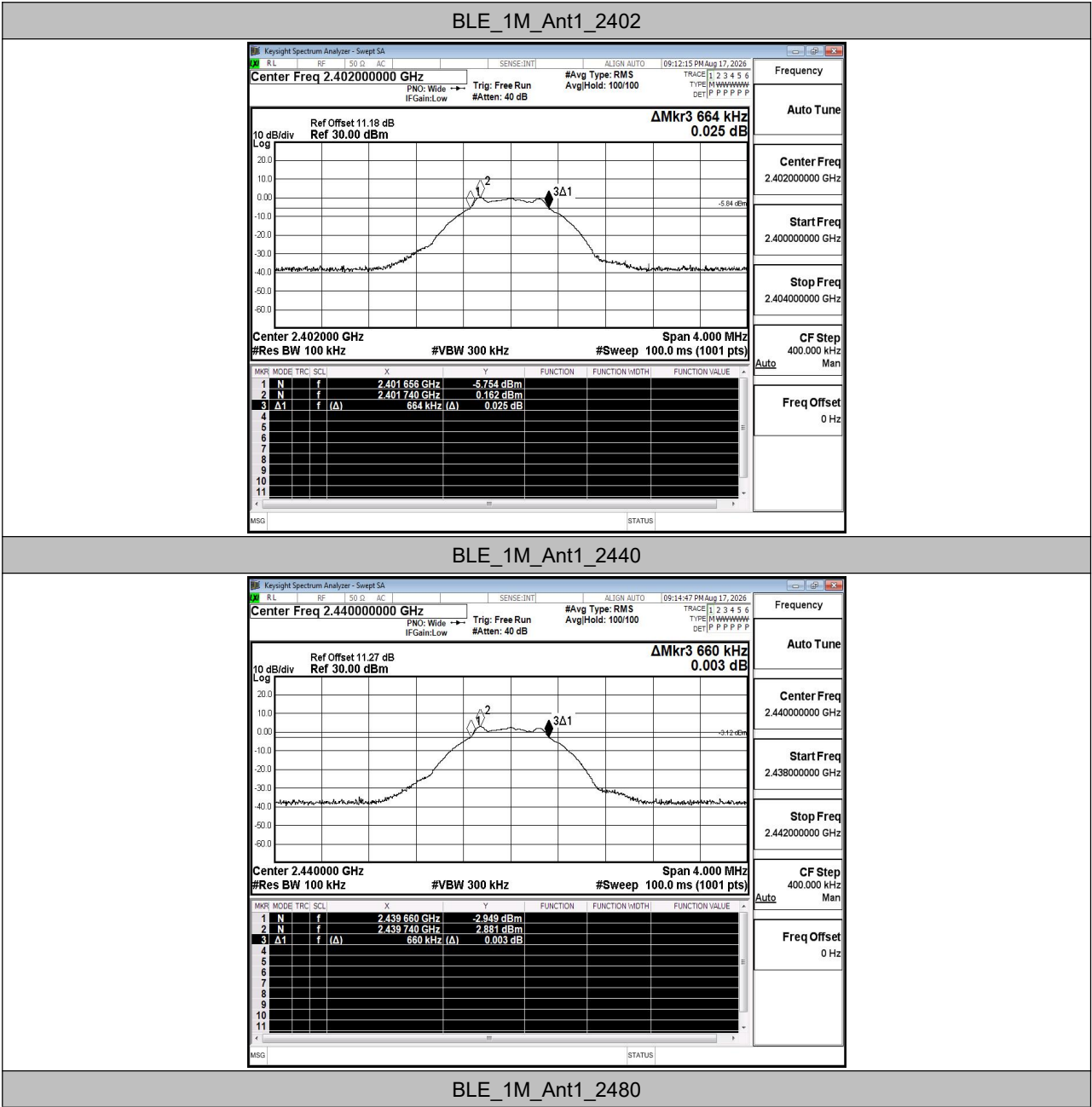
Temperature:	24.8°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.656	2402.320	0.5	PASS
		2440	0.660	2439.660	2440.320	0.5	PASS
		2480	0.660	2479.660	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.156	2401.404	2402.560	0.5	PASS
		2440	1.152	2439.404	2440.556	0.5	PASS
		2480	1.156	2479.404	2480.560	0.5	PASS

Test Graphs



BLE_1M_Ant1_2440

Keysight Spectrum Analyzer - Swept SA

RF: 150.0 MHz SENSE:INT

ALIGN: AUTO

09:14:47 PM Aug 17, 2026

Center Freq 2.440000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run

#Avg Type: RMS

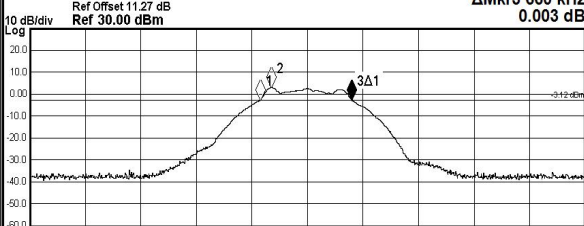
Avg/Hold: 100/100

Ref Offset 11.27 dB

Ref 30.00 dBm

ΔMkr3 660 kHz

0.003 dB



Center 2.440000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 4.000 MHz

#Sweep 100.0 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION (WIDTH)	FUNCTION VALUE
1	N	f		2.439 660 GHz	-2.949 dBm			
2	N	f		2.439 740 GHz	2.881 dBm			
3	Δ1	f	(Δ)	660 kHz (Δ)	0.003 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.440000000 GHz

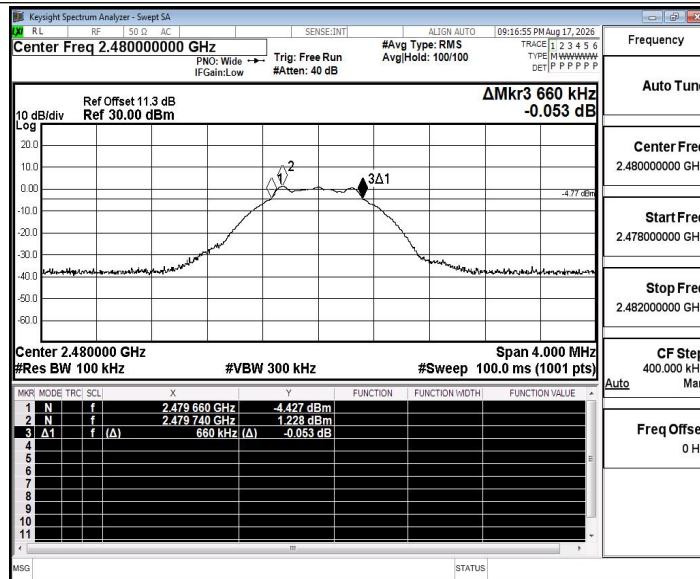
Start Freq
2.438000000 GHz

Stop Freq
2.442000000 GHz

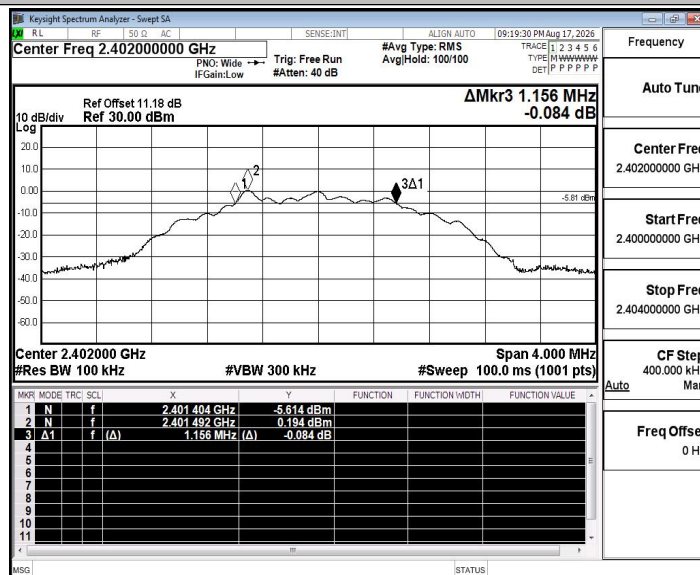
CF Step
400.000 kHz
Man

Freq Offset
0 Hz

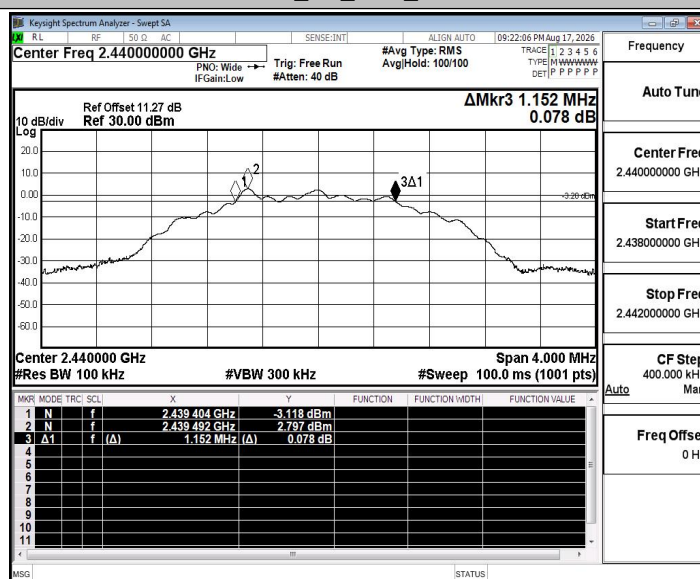
BLE_1M_Ant1_2480

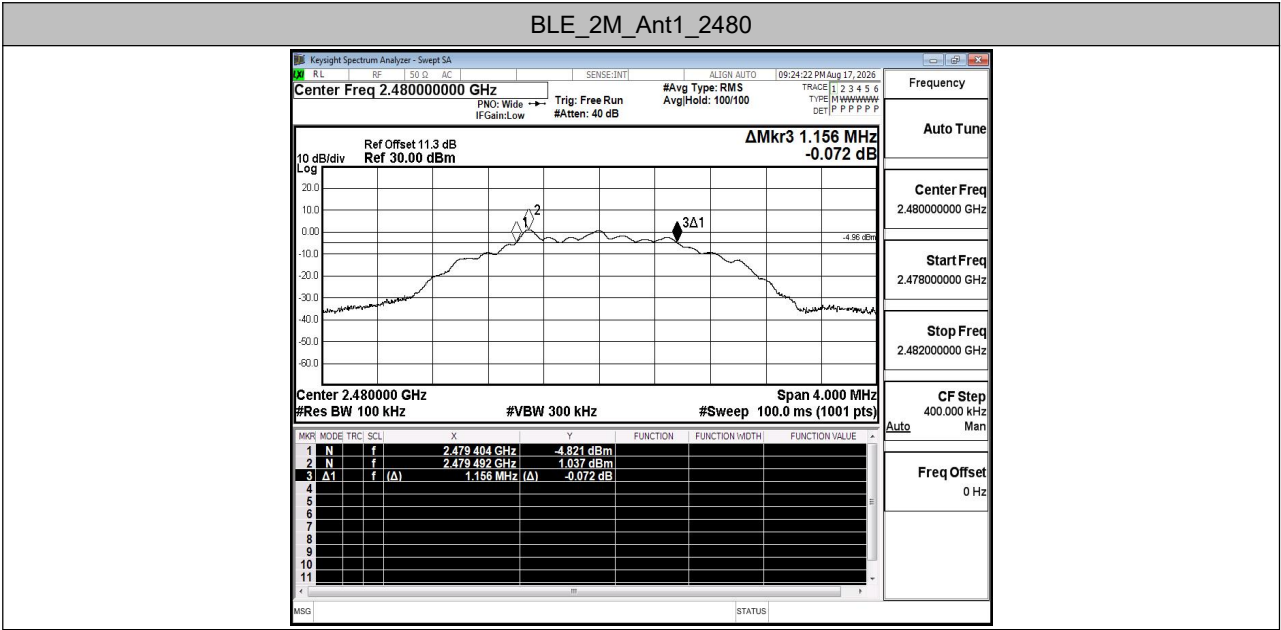


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



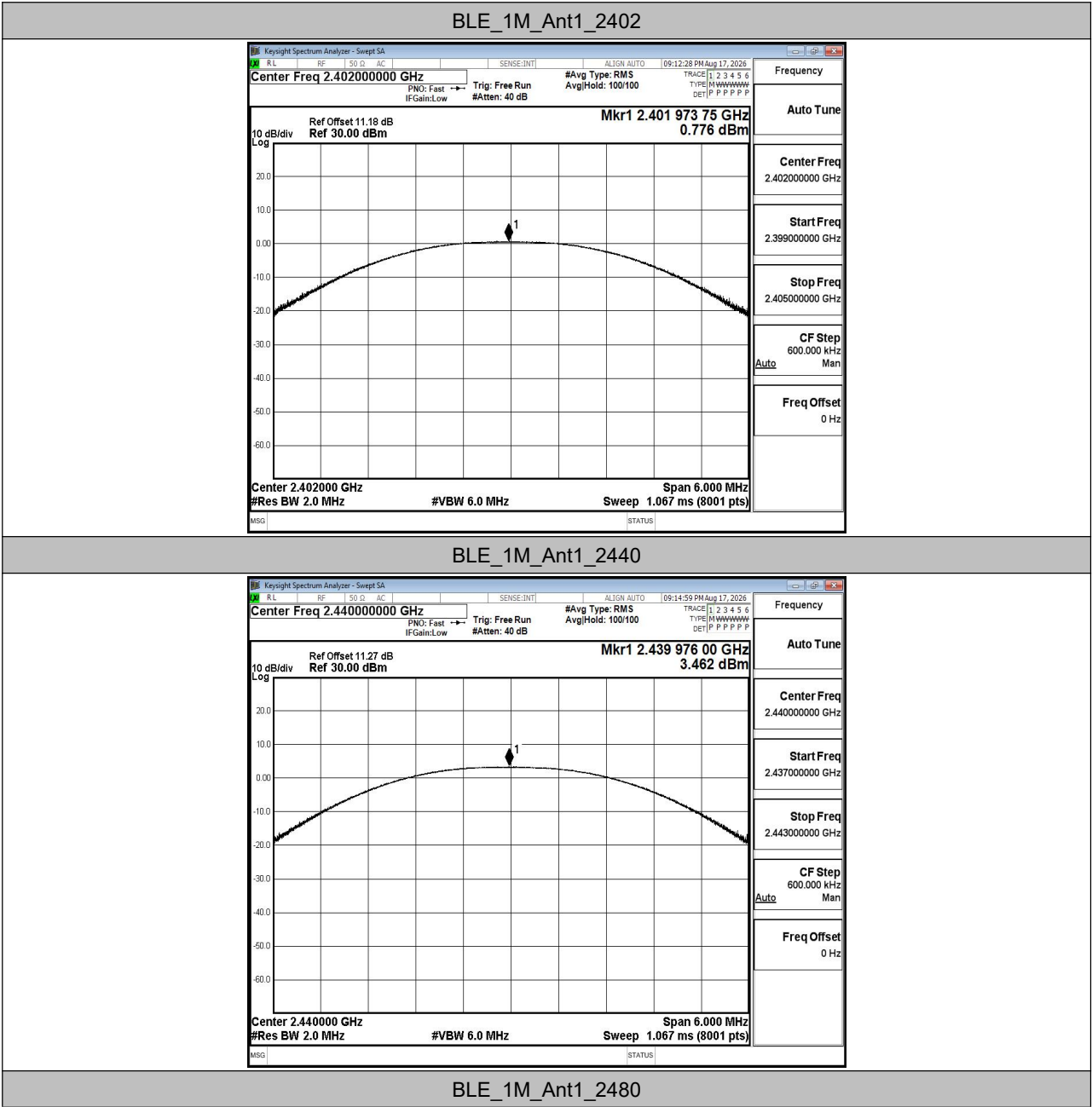


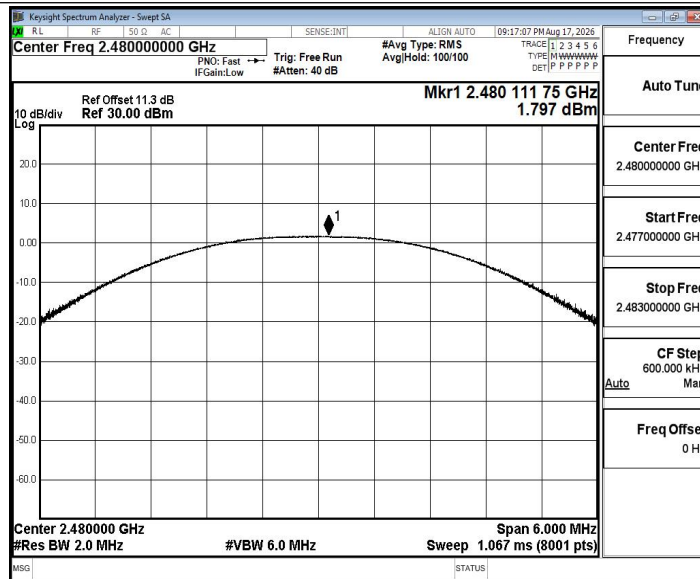
B.2 Maximum Peak conducted output power

Test Result Peak

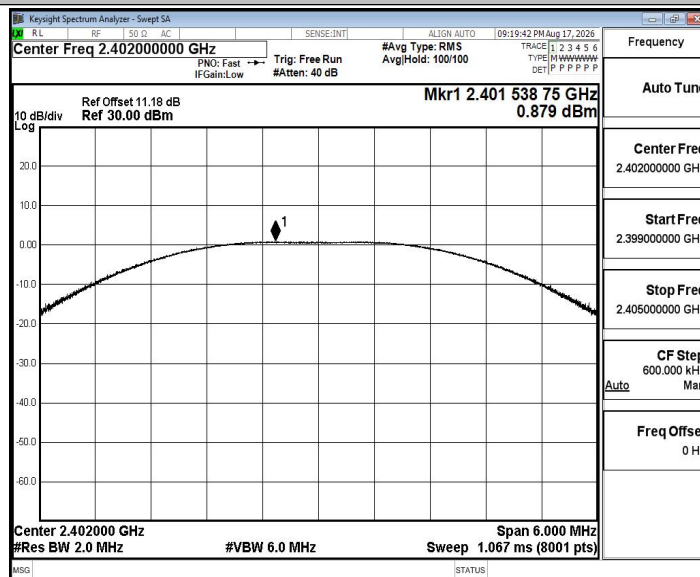
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.78	≤30	PASS
		2440	3.46	≤30	PASS
		2480	1.80	≤30	PASS
BLE_2M	Ant1	2402	0.88	≤30	PASS
		2440	3.39	≤30	PASS
		2480	1.70	≤30	PASS

Test Graphs Peak

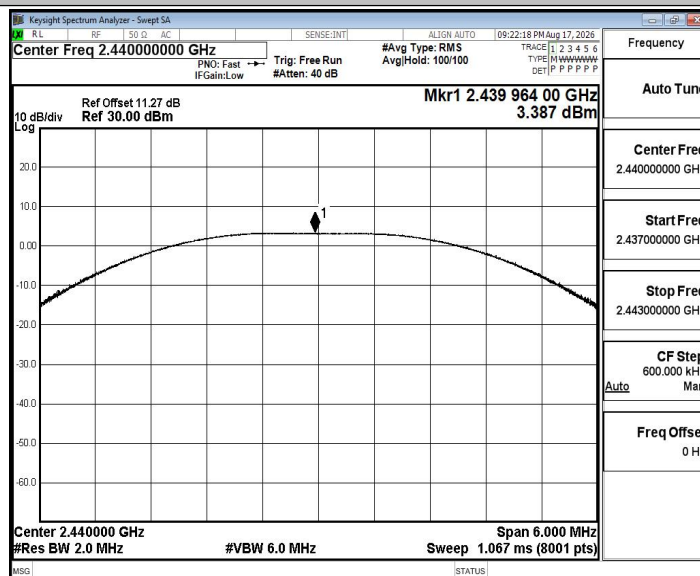


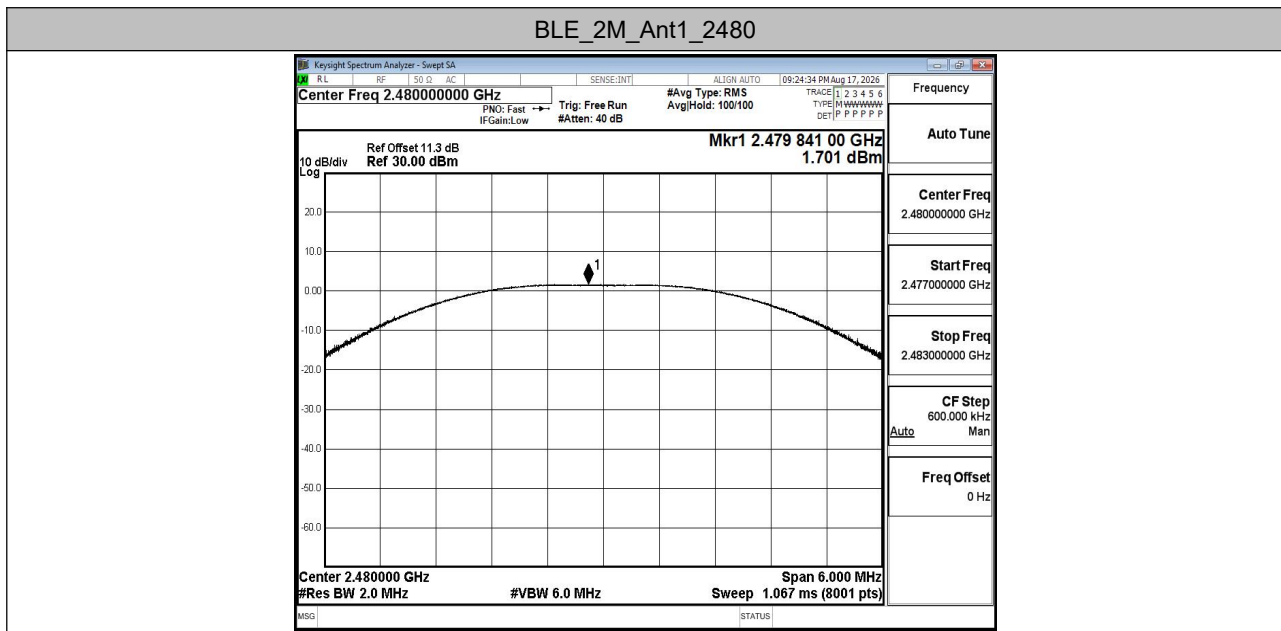


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





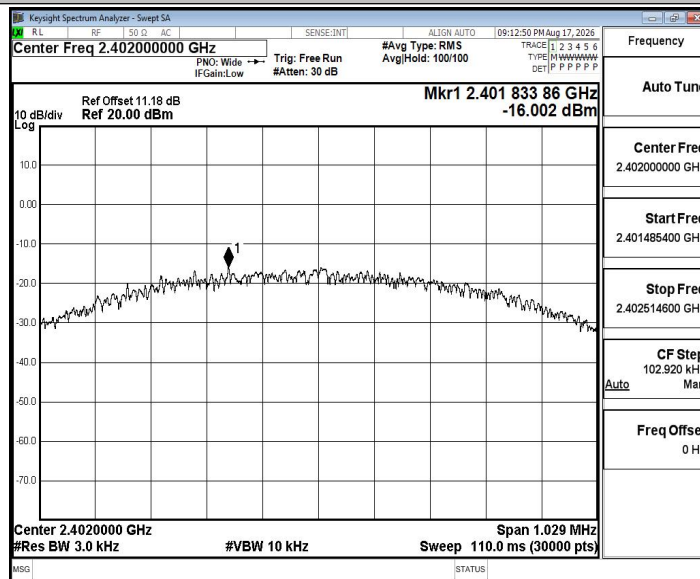
B.3 Maximum power spectral density

Test Result

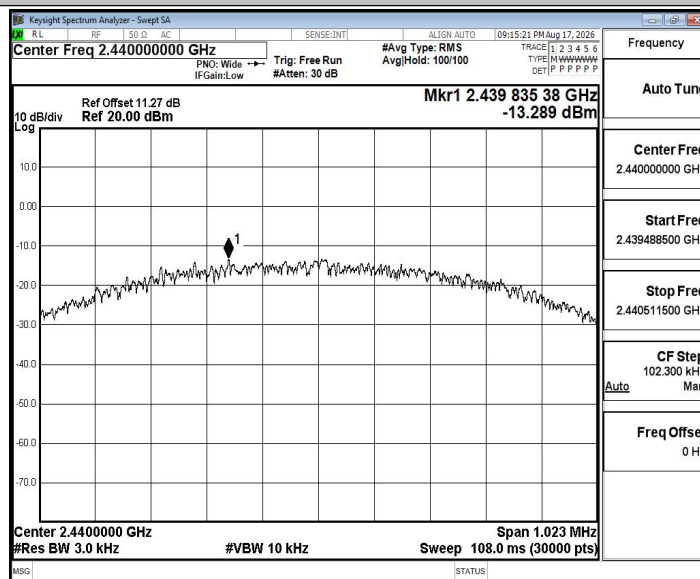
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.00	≤8.00	PASS
		2440	-13.29	≤8.00	PASS
		2480	-14.82	≤8.00	PASS
BLE_2M	Ant1	2402	-18.87	≤8.00	PASS
		2440	-16.36	≤8.00	PASS
		2480	-18.02	≤8.00	PASS

Test Graphs

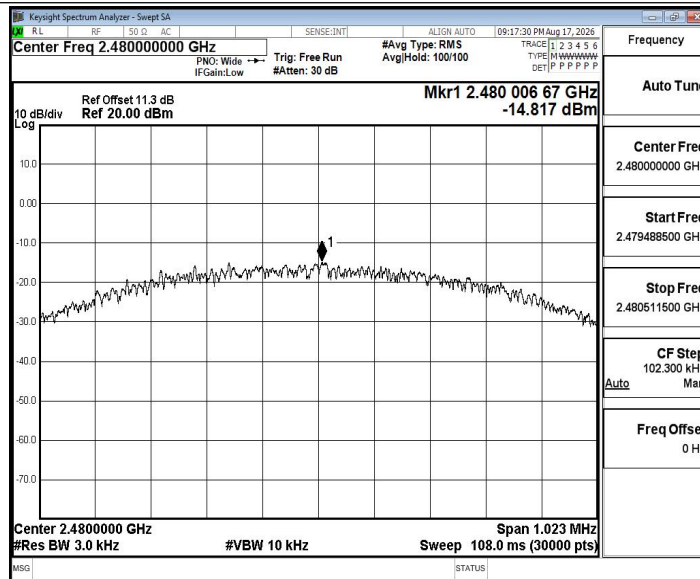
BLE_1M_Ant1_2402



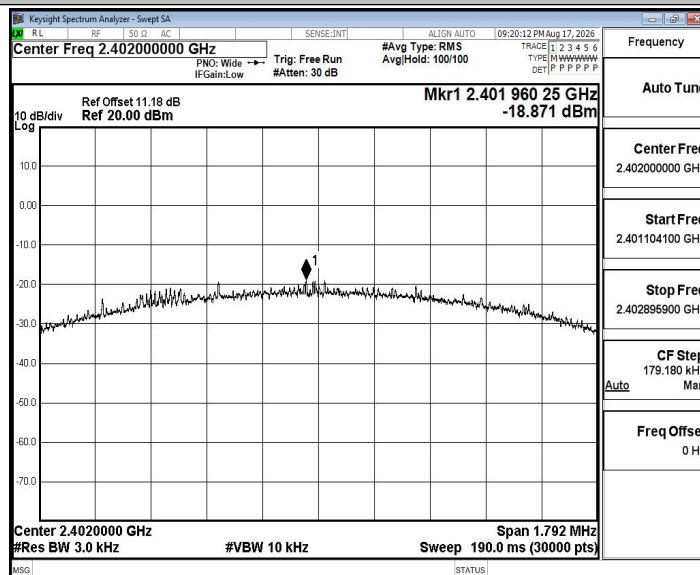
BLE_1M_Ant1_2440



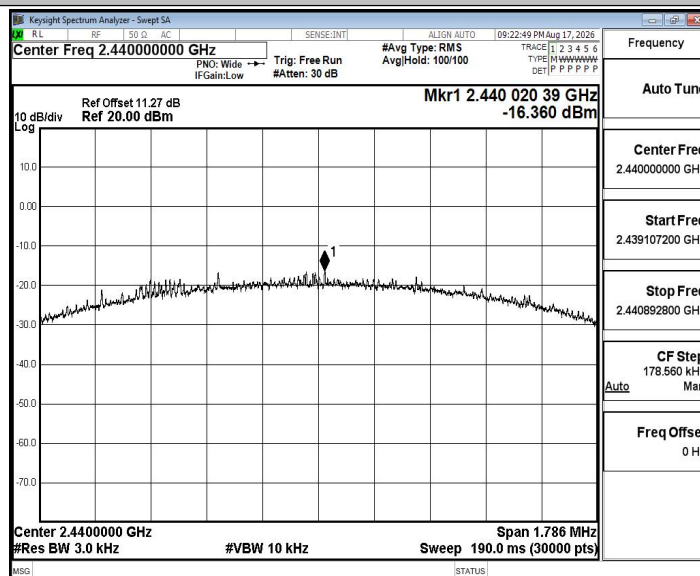
BLE_1M_Ant1_2480

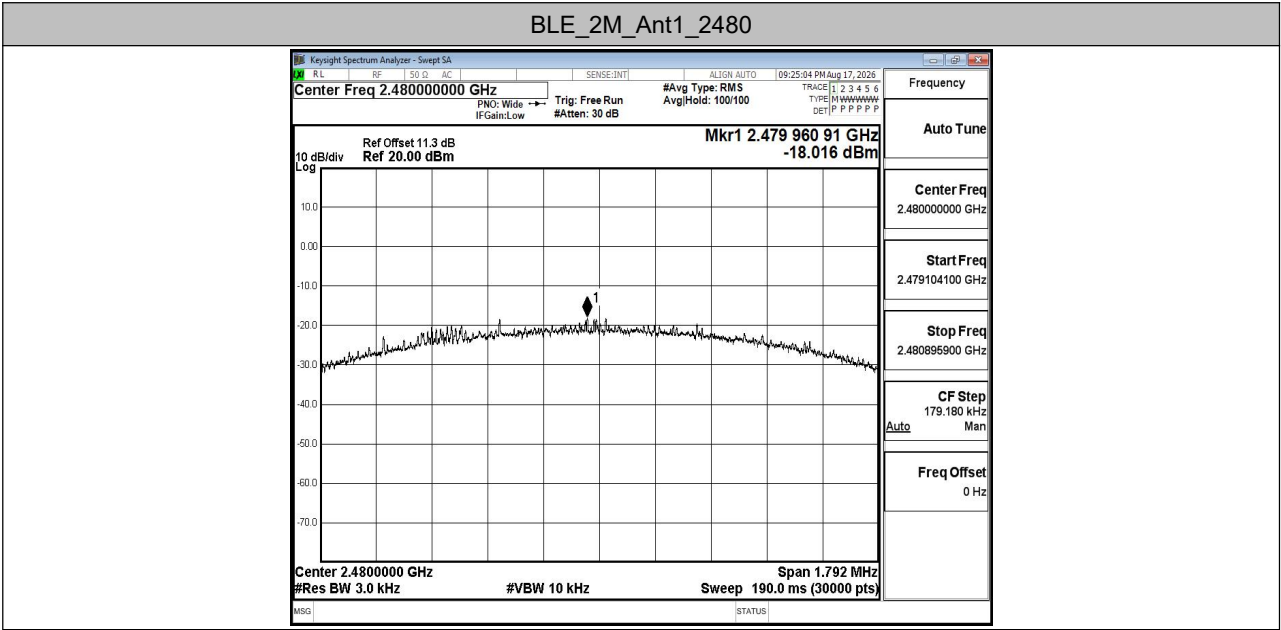


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





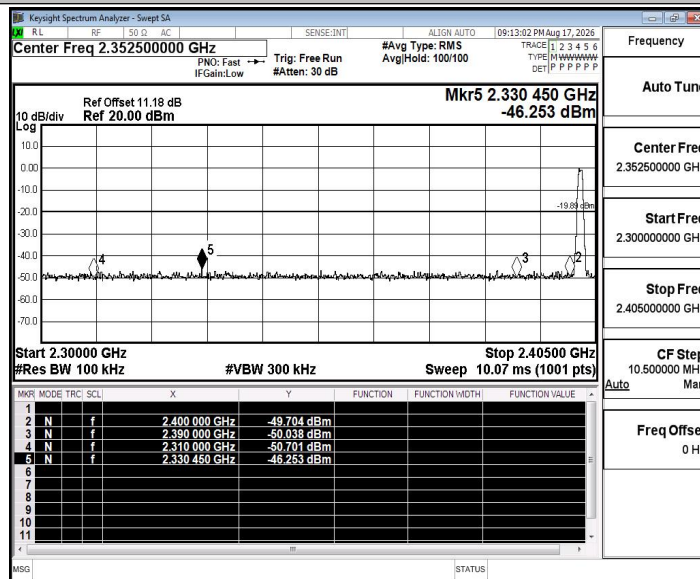
B.4 Band edge measurements

Test Result

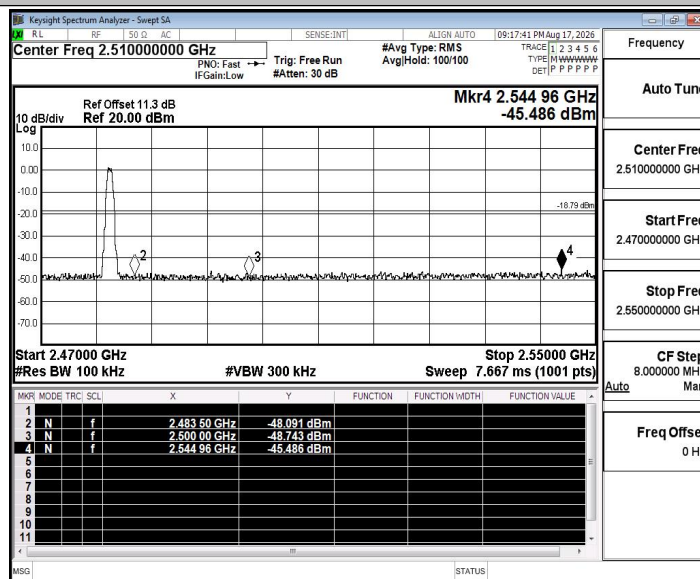
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.11	-46.25	≤ -19.89	PASS
		High	2480	1.21	-45.49	≤ -18.79	PASS
BLE_2M	Ant1	Low	2402	-0.38	-45.13	≤ -20.38	PASS
		High	2480	0.36	-45.44	≤ -19.64	PASS

Test Graphs

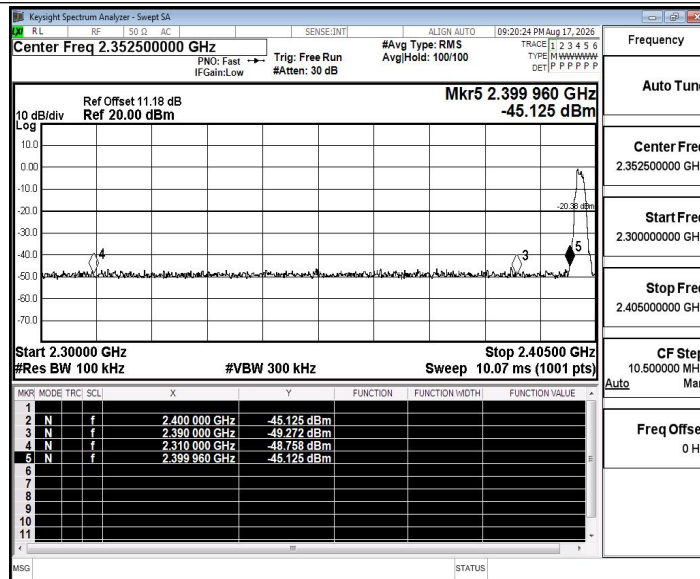
BLE_1M_Ant1_Low_2402



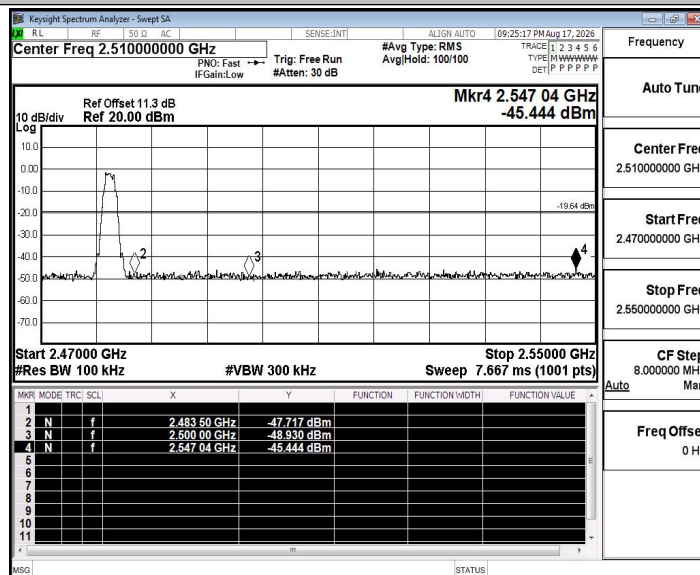
BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



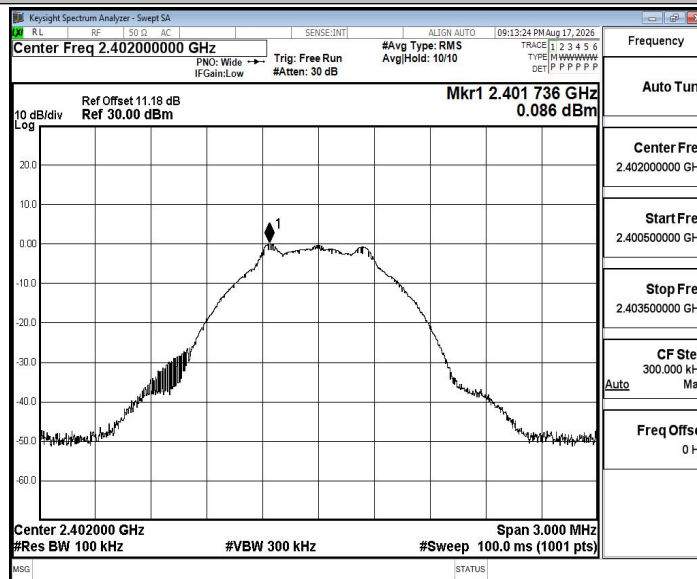
B.5 Conducted Spurious Emission

Test Result

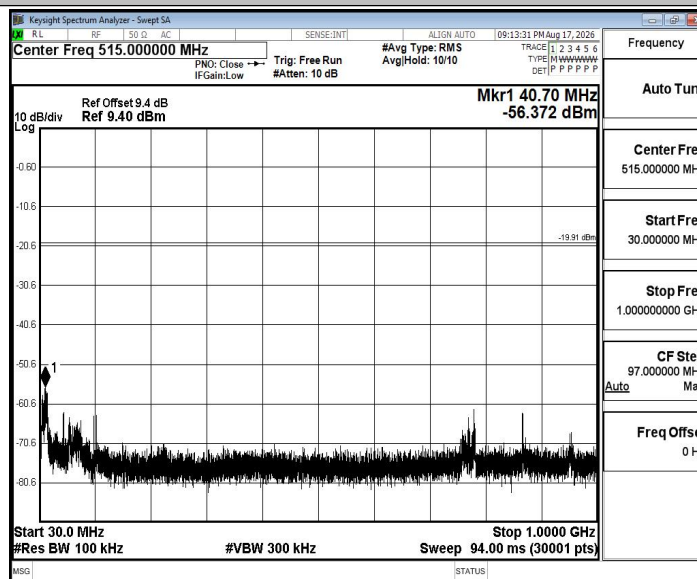
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-56.37	≤-19.91	PASS
			1000~26500	0.09	-36.53	≤-19.91	PASS
		2440	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-57.24	≤-17.23	PASS
			1000~26500	2.77	-44.71	≤-17.23	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-57.44	≤-18.82	PASS
			1000~26500	1.18	-44.76	≤-18.82	PASS
BLE_2M	Ant1	2402	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-54.36	≤-19.86	PASS
			1000~26500	0.14	-37.69	≤-19.86	PASS
		2440	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-52.85	≤-17.32	PASS
			1000~26500	2.68	-44.06	≤-17.32	PASS
		2480	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-57.04	≤-19.01	PASS
			1000~26500	0.99	-43.89	≤-19.01	PASS

Test Graphs

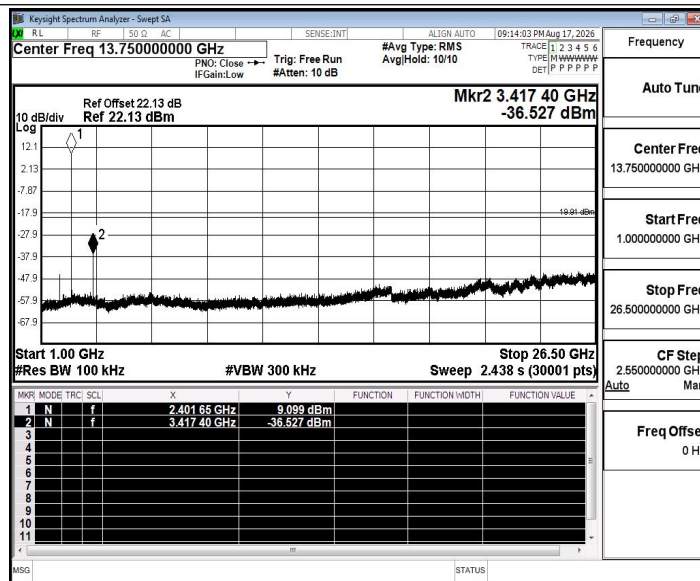
BLE_1M_Ant1_2402_0~Reference



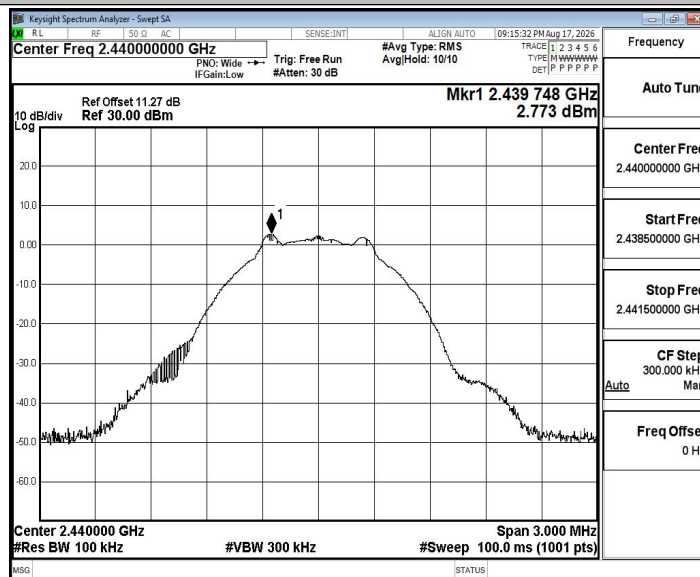
BLE_1M_Ant1_2402_30~1000



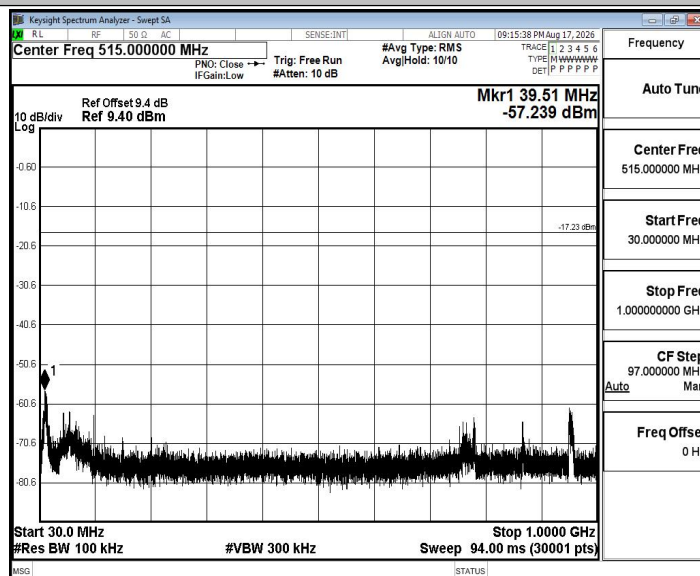
BLE_1M_Ant1_2402_1000~26500



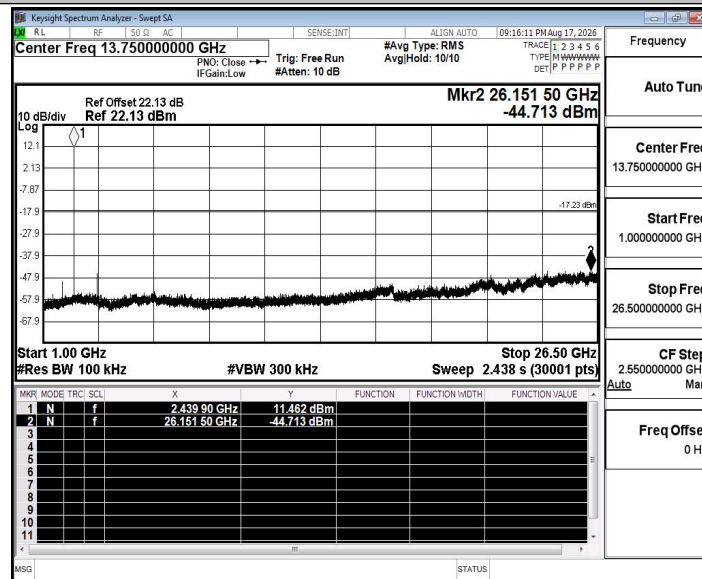
BLE_1M_Ant1_2440_0~Reference



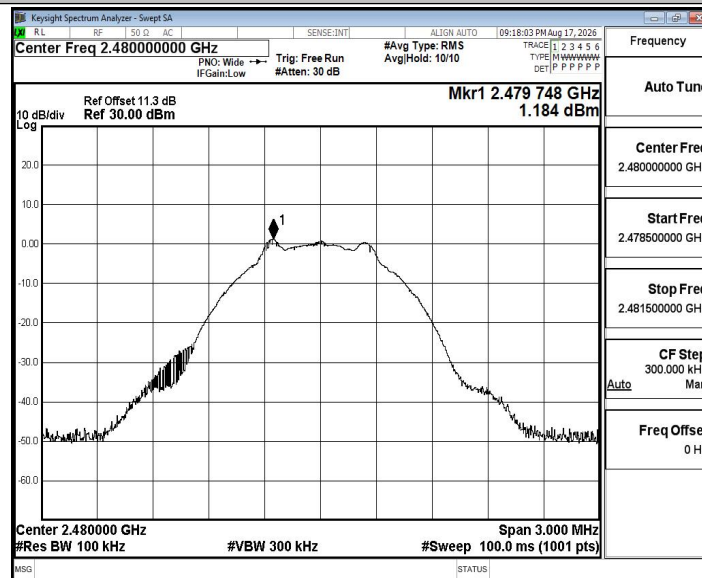
BLE_1M_Ant1_2440_30~1000



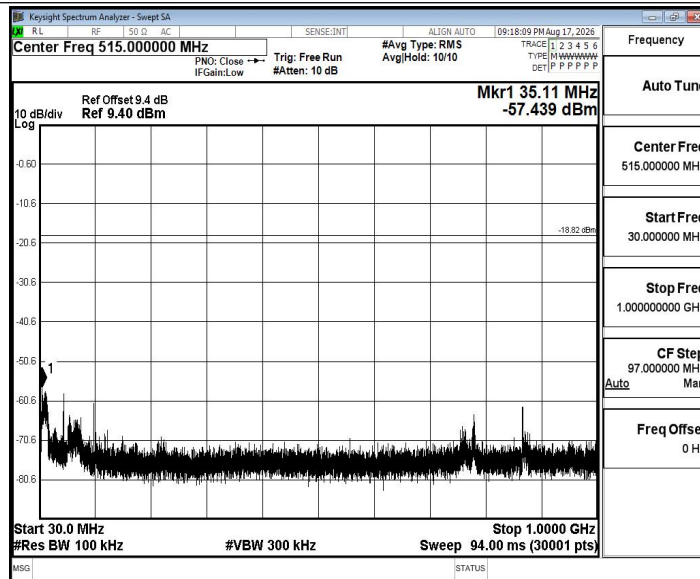
BLE_1M_Ant1_2440_1000~26500



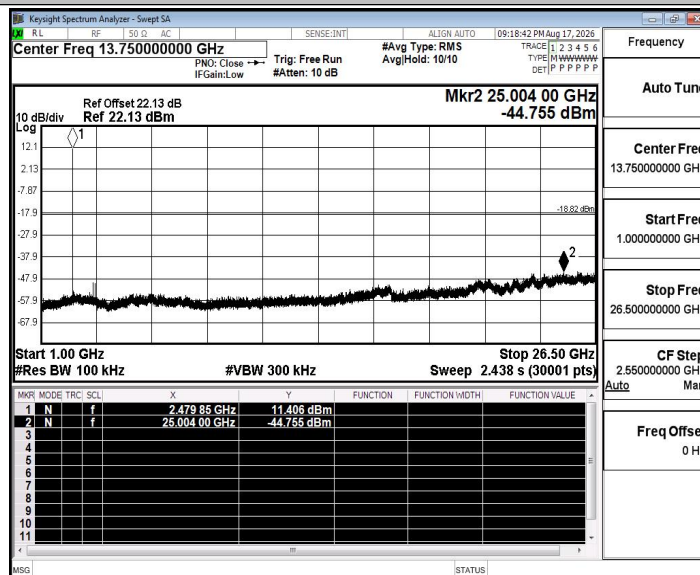
BLE_1M_Ant1_2480_0~Reference



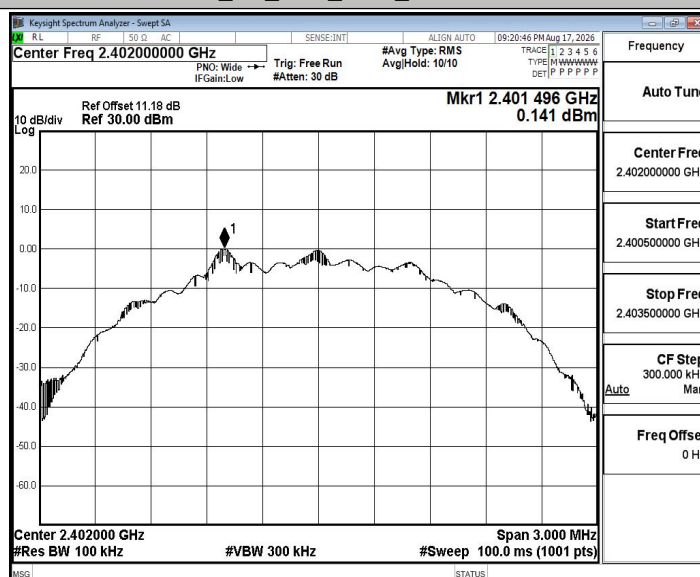
BLE_1M_Ant1_2480_30~1000

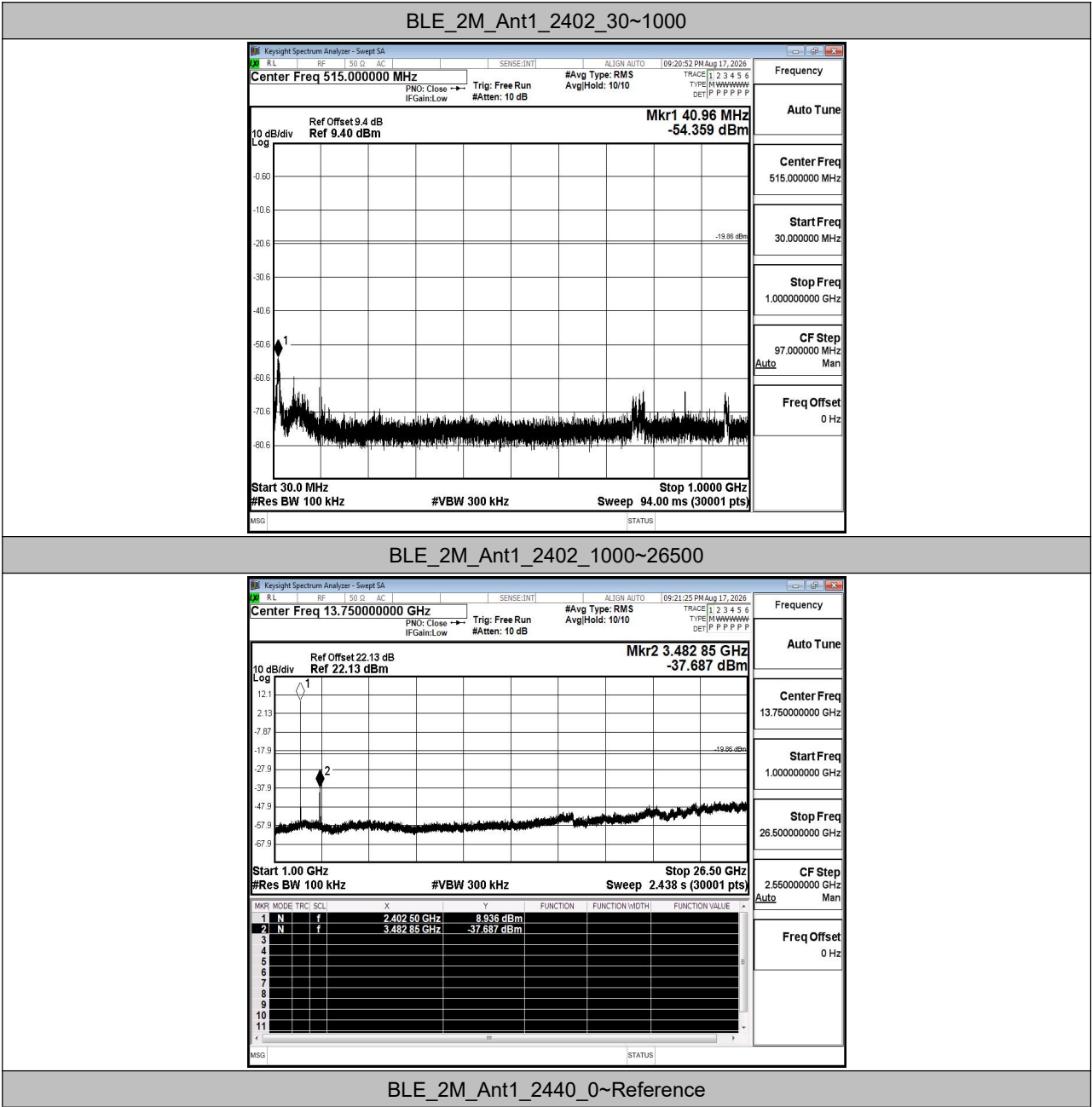


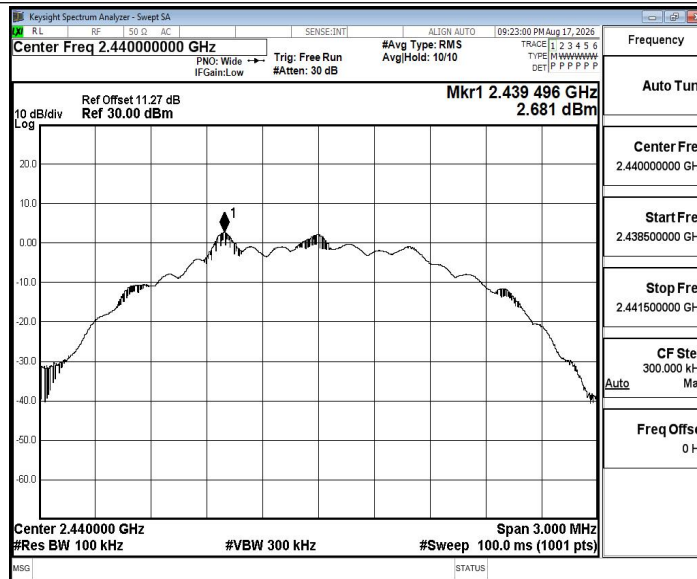
BLE_1M_Ant1_2480_1000~26500



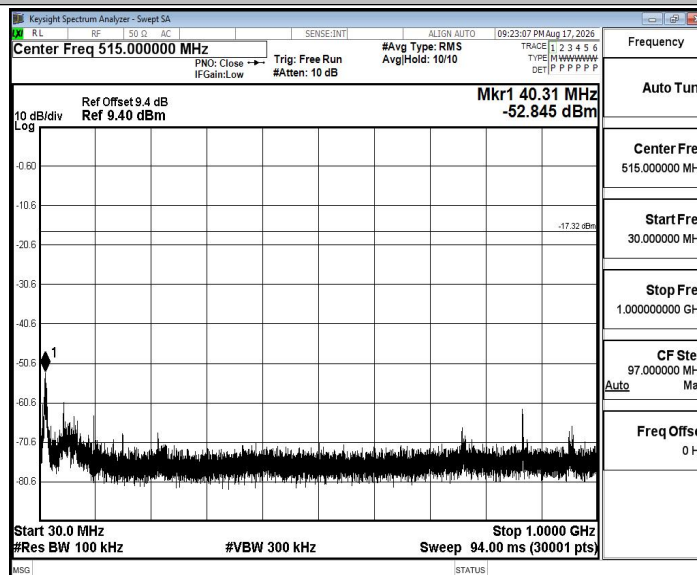
BLE_2M_Ant1_2402_0~Reference



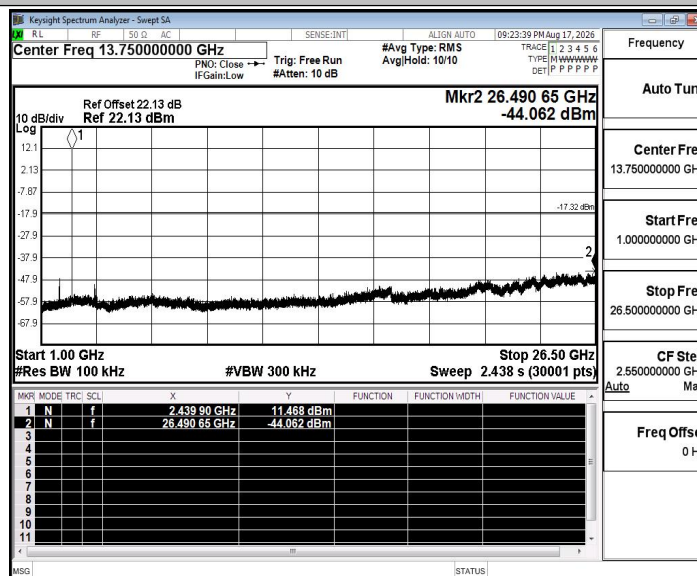




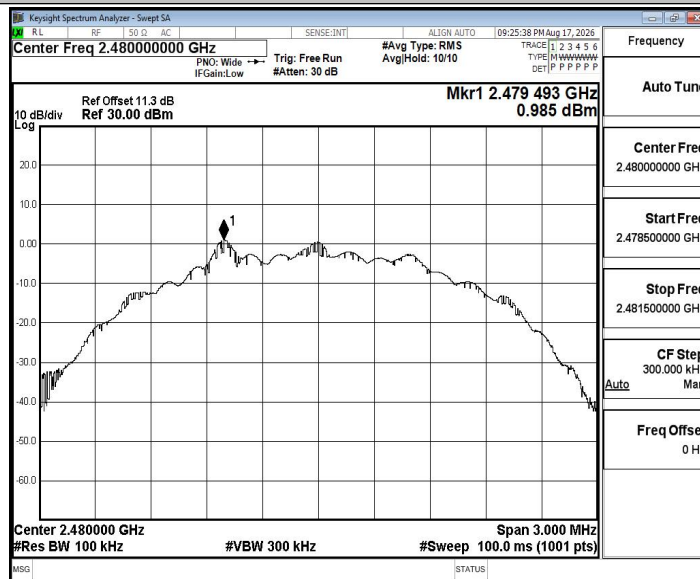
BLE_2M_Ant1_2440_30~1000



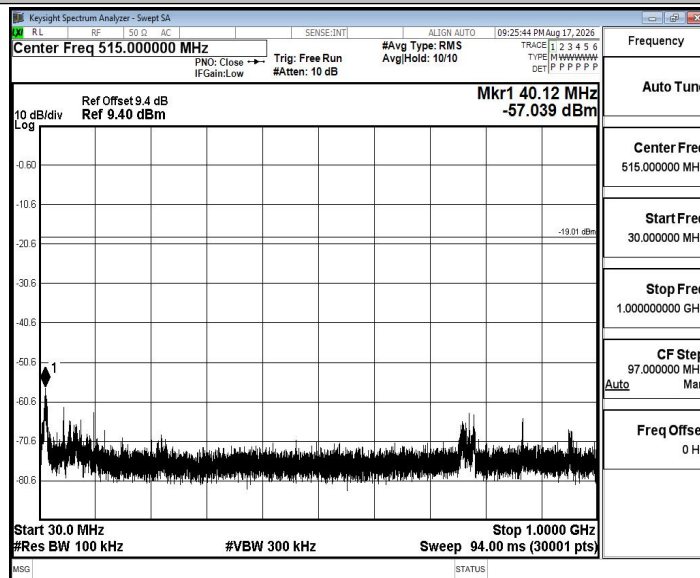
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500