

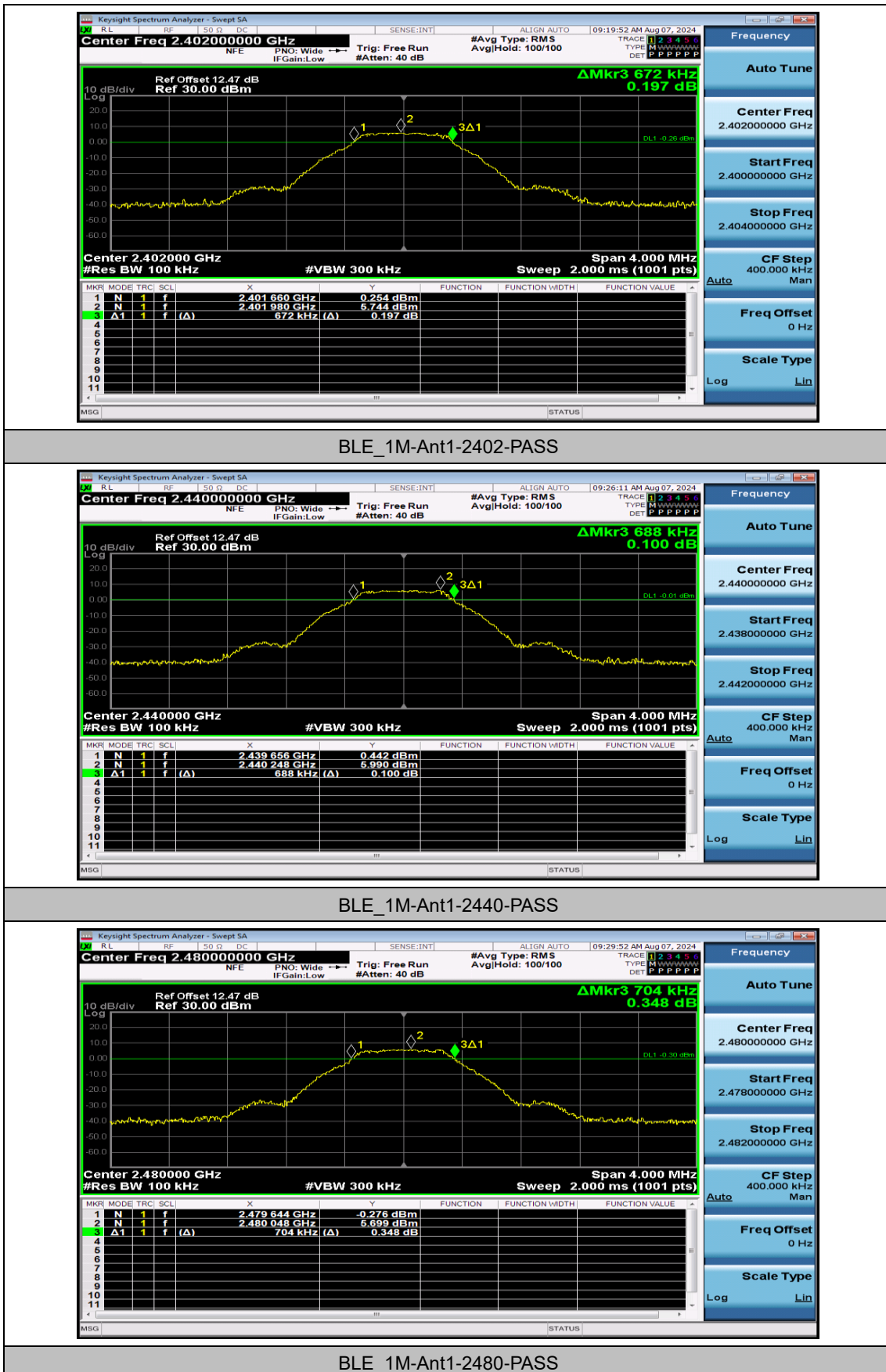
Appendix C of BLE Results

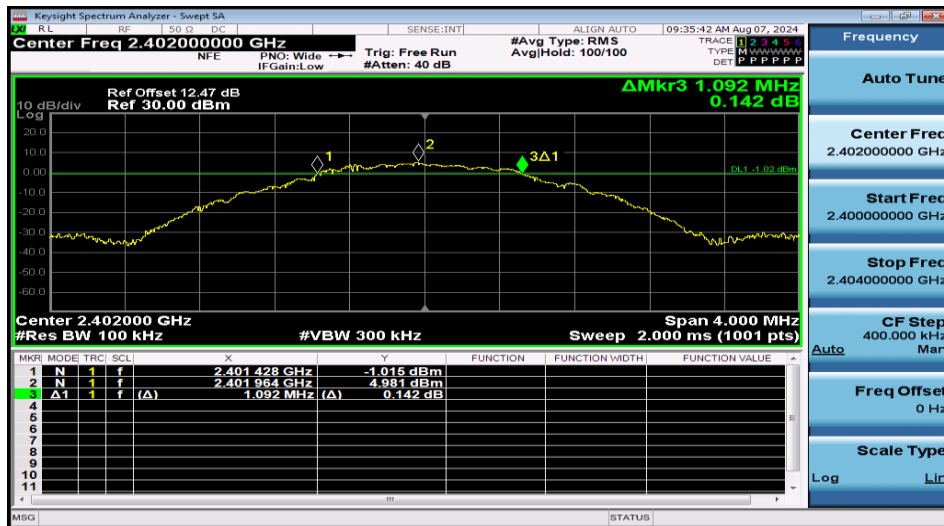
DTS Bandwidth

Test Result

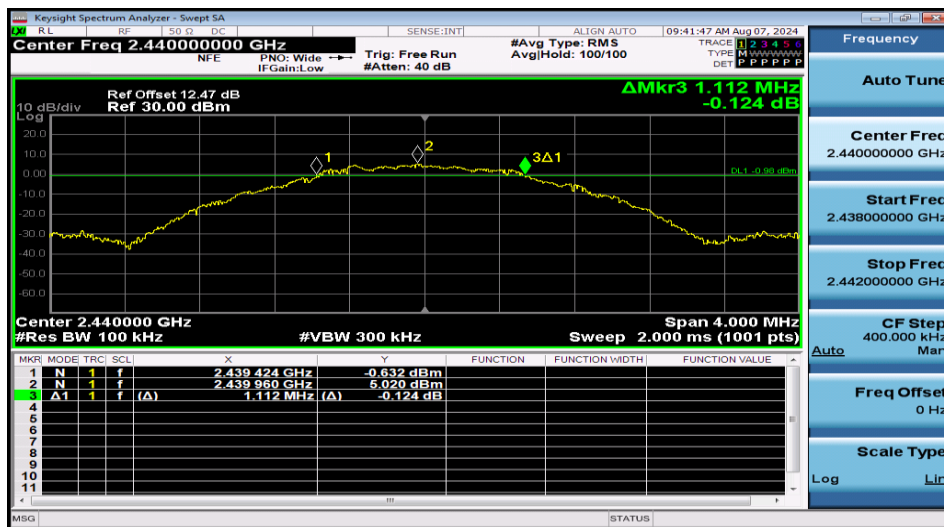
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.660	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.688	2439.656	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.704	2479.644	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.092	2401.428	2402.520	0.5	PASS
BLE_2M	Ant1	2440	1.112	2439.424	2440.536	0.5	PASS
BLE_2M	Ant1	2480	1.100	2479.424	2480.524	0.5	PASS

Test Graphs

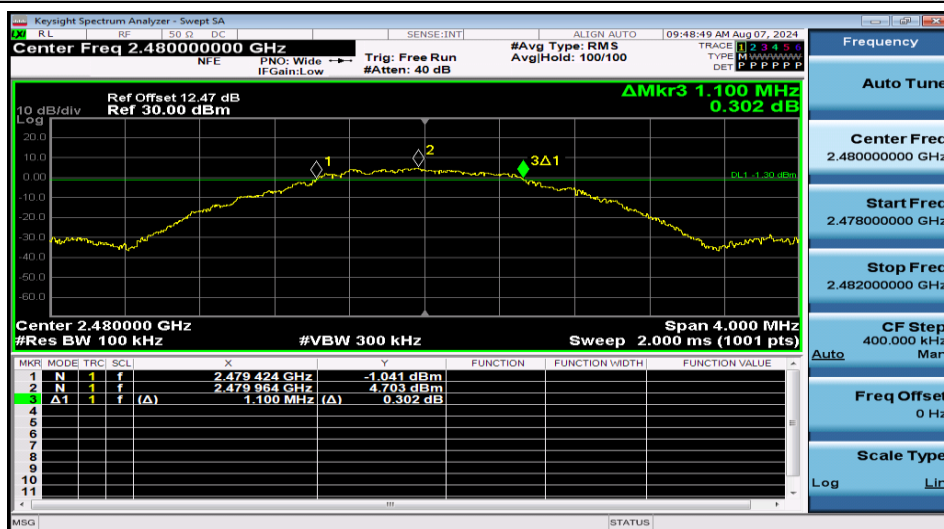




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

FCC ID: 2AV7A-TD02

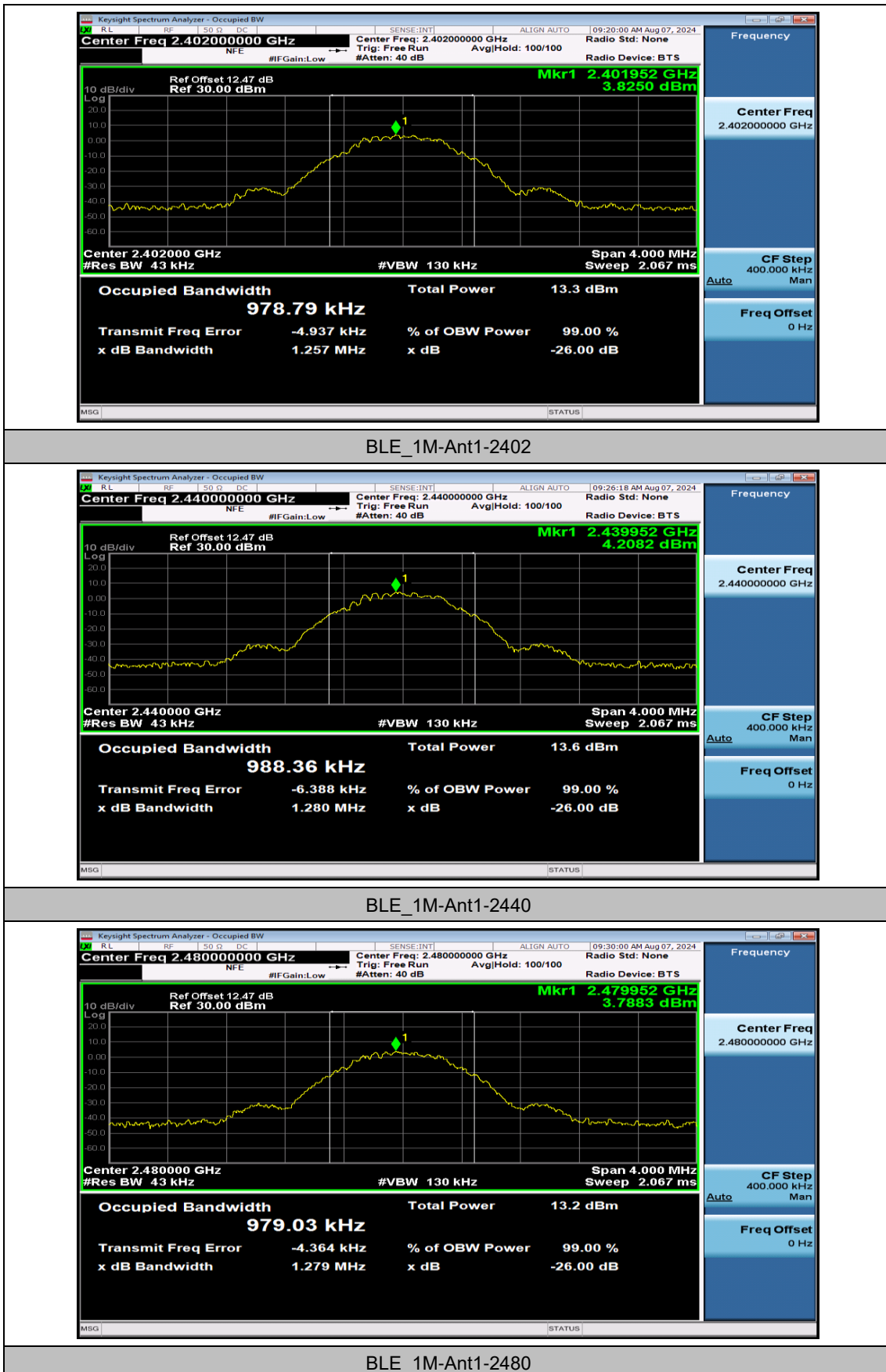
IC: 26039-TD02

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.97879	2401.5057	2402.4845	---	---
BLE_1M	Ant1	2440	0.98836	2439.4994	2440.4878	---	---
BLE_1M	Ant1	2480	0.97903	2479.5061	2480.4852	---	---
BLE_2M	Ant1	2402	1.9028	2401.0337	2402.9365	---	---
BLE_2M	Ant1	2440	1.9187	2439.0219	2440.9406	---	---
BLE_2M	Ant1	2480	1.9169	2479.0270	2480.9439	---	---

Test Graphs

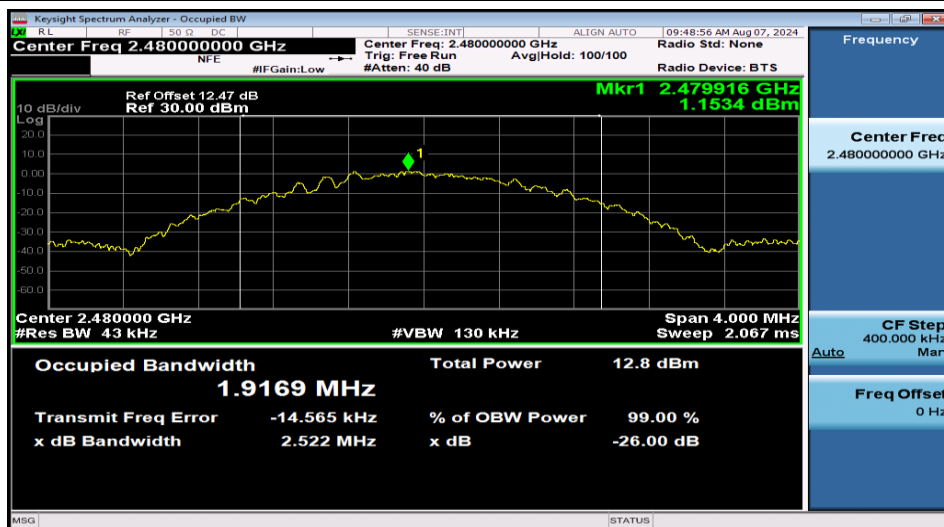




BLE_2M-Ant1-2402



BLE_2M-Ant1-2440

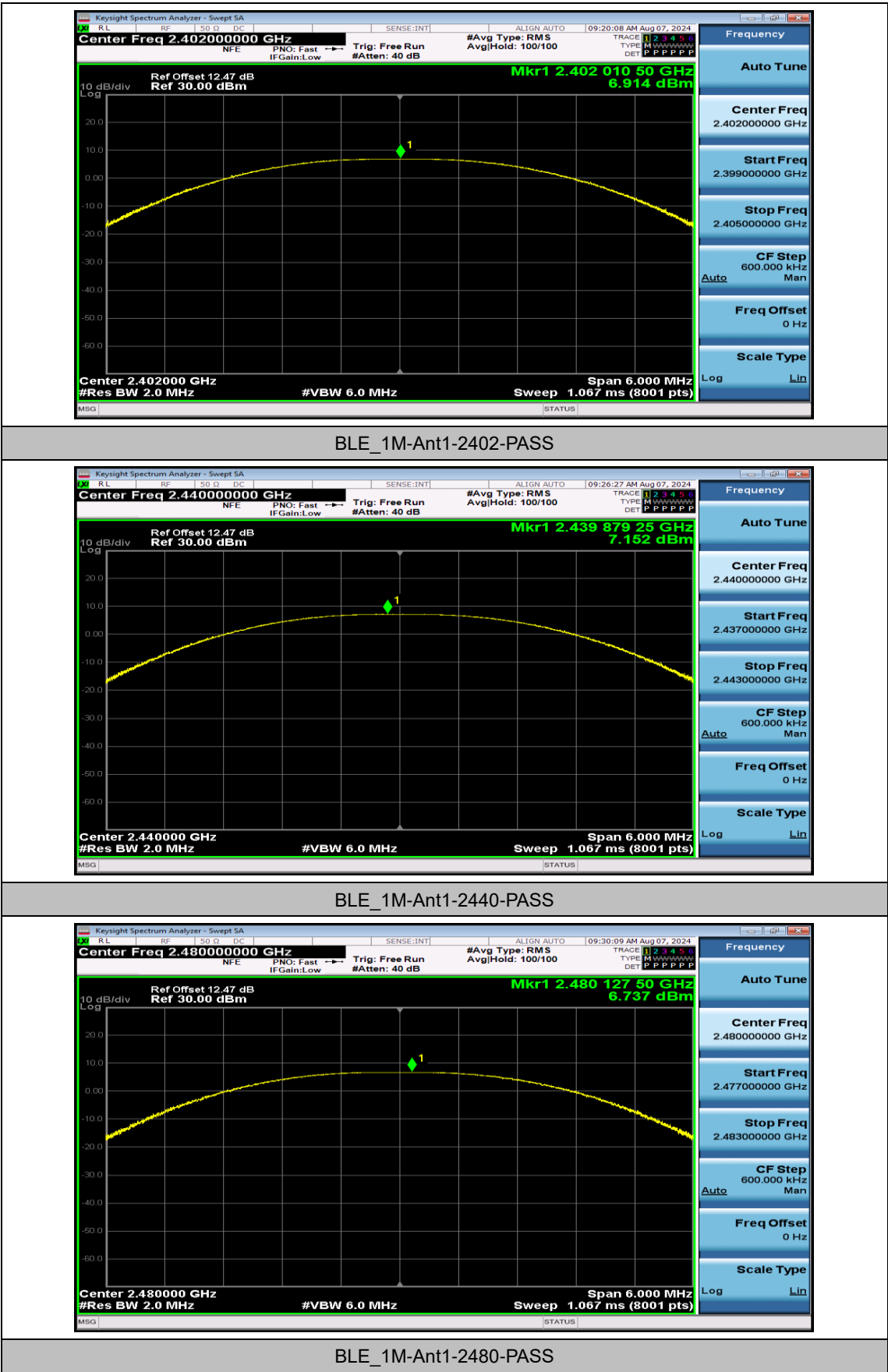


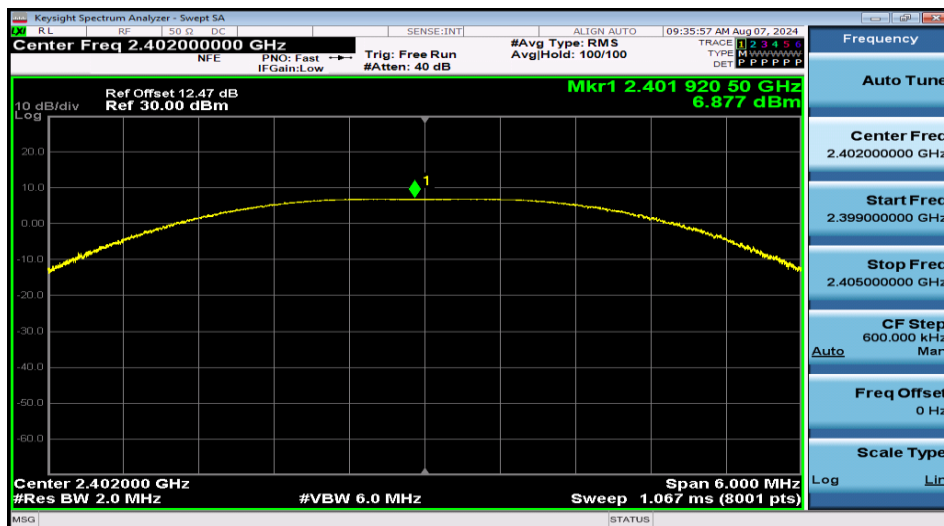
BLE_2M-Ant1-2480

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	6.91	≤30	8.05	≤36	PASS
BLE_1M	Ant1	2440	7.15	≤30	8.29	≤36	PASS
BLE_1M	Ant1	2480	6.74	≤30	7.88	≤36	PASS
BLE_2M	Ant1	2402	6.88	≤30	8.02	≤36	PASS
BLE_2M	Ant1	2440	7.14	≤30	8.28	≤36	PASS
BLE_2M	Ant1	2480	6.68	≤30	7.82	≤36	PASS

Test Graphs Peak





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

FCC ID: 2AV7A-TD02

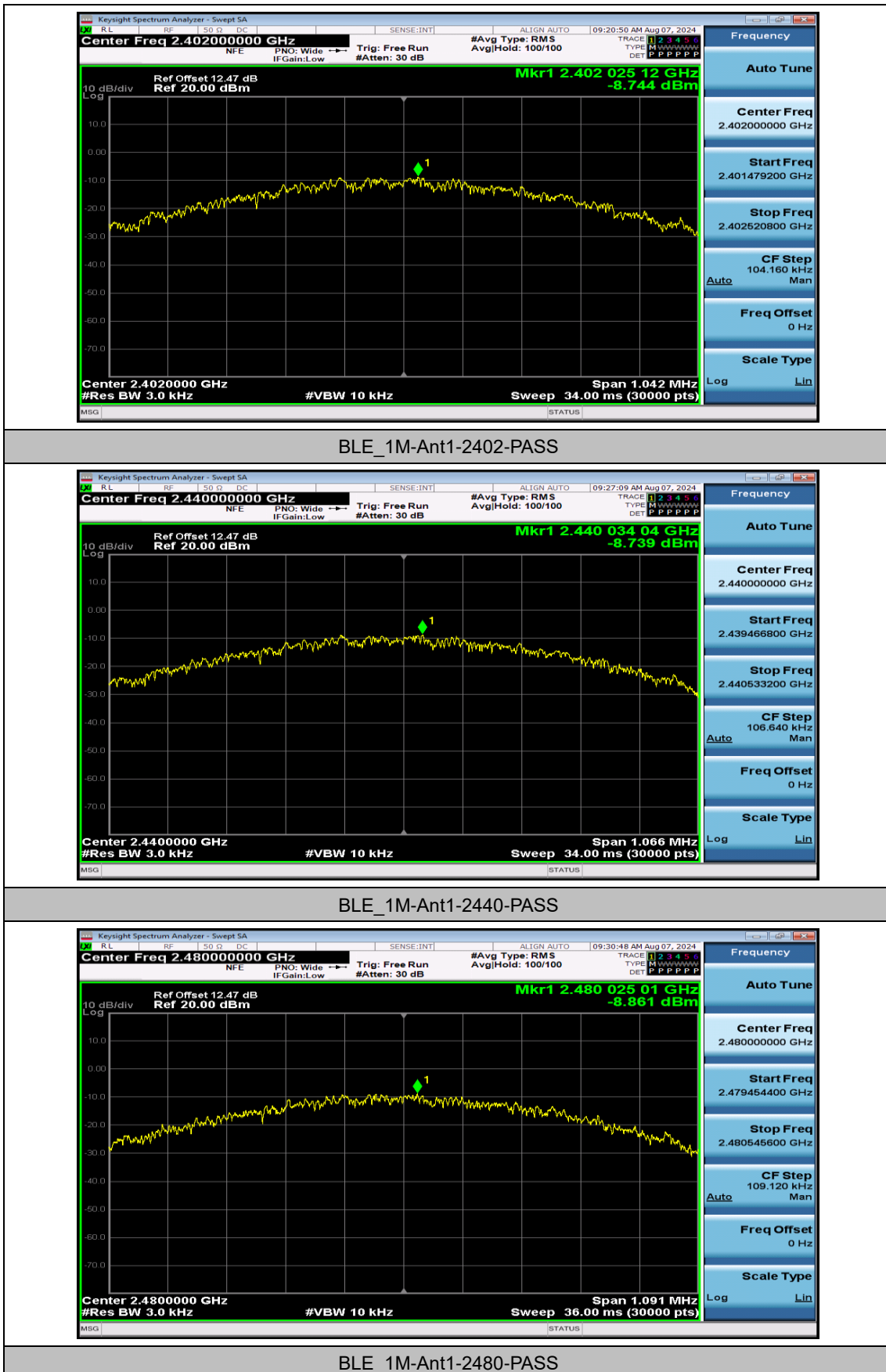
IC: 26039-TD02

Maximum power spectral density

Test Result

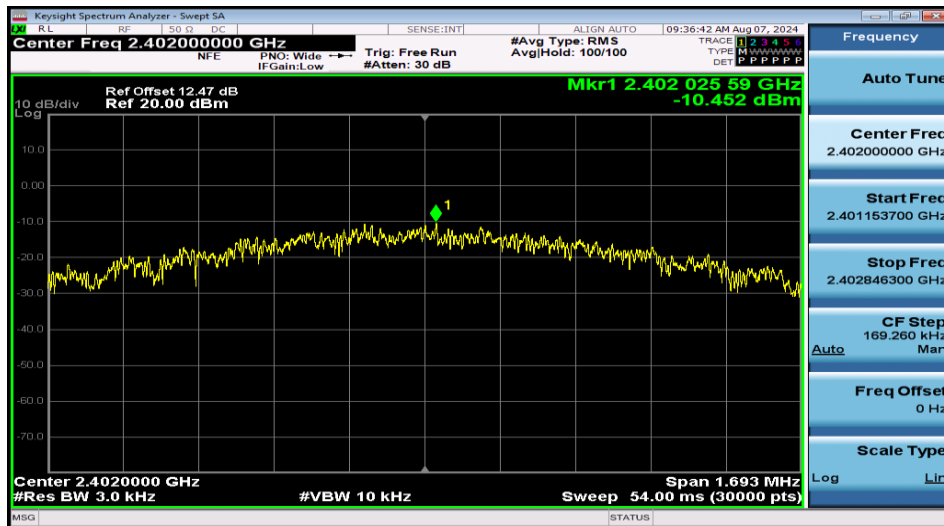
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.74	≤8.00	PASS
BLE_1M	Ant1	2440	-8.74	≤8.00	PASS
BLE_1M	Ant1	2480	-8.86	≤8.00	PASS
BLE_2M	Ant1	2402	-10.45	≤8.00	PASS
BLE_2M	Ant1	2440	-10.32	≤8.00	PASS
BLE_2M	Ant1	2480	-10.83	≤8.00	PASS

Test Graphs

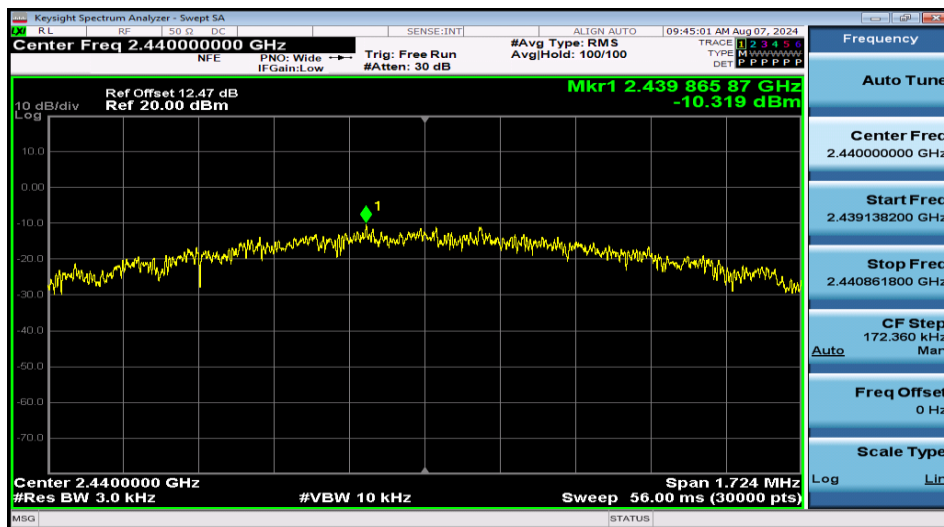


FCC ID: 2AV7A-TD02

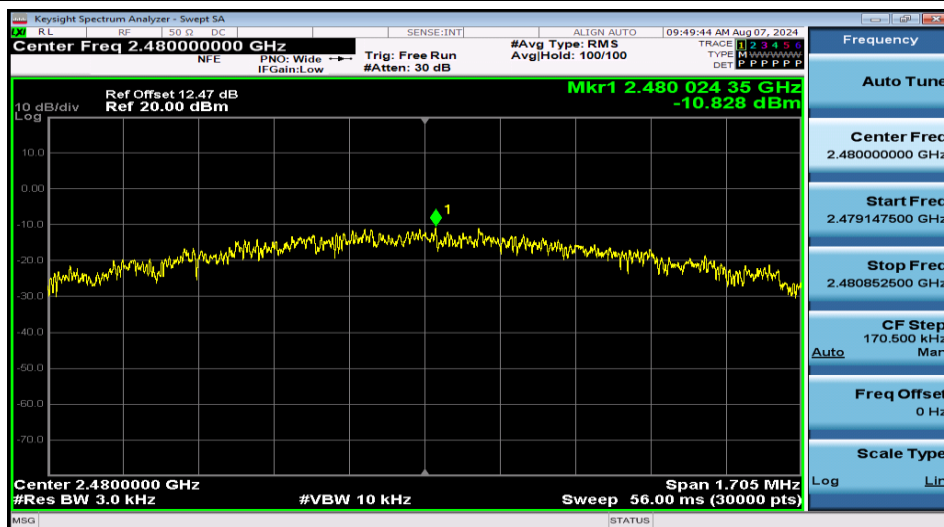
IC: 26039-TD02



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

FCC ID: 2AV7A-TD02

IC: 26039-TD02

Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.80	-43.73	≤-14.21	PASS
BLE_1M	Ant1	High	2480	5.59	-46.93	≤-14.41	PASS
BLE_2M	Ant1	Low	2402	4.89	-32.6	≤-15.11	PASS
BLE_2M	Ant1	High	2480	4.58	-46.98	≤-15.42	PASS

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.352500000 GHz

Ref Offset 12.47 dB
Ref 20.00 dBm

Mkr5 2.399 645 GHz
-43.730 dBm

Start 2.300000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep 3.867 ms (1001 pts)

MKRI	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 000 GHz	5.795 dBm			
2	N	1	f	2.400 000 GHz	-44.084 dBm			
3	N	1	f (Δ)	2.390 000 GHz	-51.056 dBm			
4	N	1	f	2.310 000 GHz	-52.006 dBm			
5	N	1	f	2.399 645 GHz	-43.730 dBm			

Frequency

Auto Tune

Center Freq
2.352500000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.405000000 GHz

CF Step
10.500000 MHz

Auto

Freq Offset
0 Hz

Scale Type
Lin

Log

BLE_1M-Ant1-2402-PASS

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.510000000 GHz

Ref Offset 12.47 dB
Ref 20.00 dBm

Mkr4 2.483 68 GHz
-46.928 dBm

Start 2.470000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep 3.000 ms (1001 pts)

MKRI	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 000 GHz	5.592 dBm			
2	N	1	f	2.483 680 GHz	-49.829 dBm			
3	N	1	f (Δ)	2.500 000 GHz	-50.656 dBm			
4	N	1	f	2.483 68 GHz	-46.928 dBm			

Frequency

Auto Tune

Center Freq
2.510000000 GHz

Start Freq
2.470000000 GHz

Stop Freq
2.550000000 GHz

CF Step
8.000000 MHz

Auto

Freq Offset
0 Hz

Scale Type
Lin

Log

BLE_1M-Ant1-2480-PASS

KeySight Spectrum Analyzer - Swept SA

Center Freq 2.352500000 GHz

Ref Offset 12.47 dB
Ref 20.00 dBm

Mkr5 2.399 960 GHz
-32.596 dBm

Start 2.300000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Sweep 3.867 ms (1001 pts)

MKRI	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 955 GHz	4.893 dBm			
2	N	1	f	2.400 000 GHz	-32.596 dBm			
3	N	1	f (Δ)	2.390 000 GHz	-51.632 dBm			
4	N	1	f	2.310 000 GHz	-51.806 dBm			
5	N	1	f	2.399 960 GHz	-32.596 dBm			

Frequency

Auto Tune

Center Freq
2.352500000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.405000000 GHz

CF Step
10.500000 MHz

Auto

Freq Offset
0 Hz

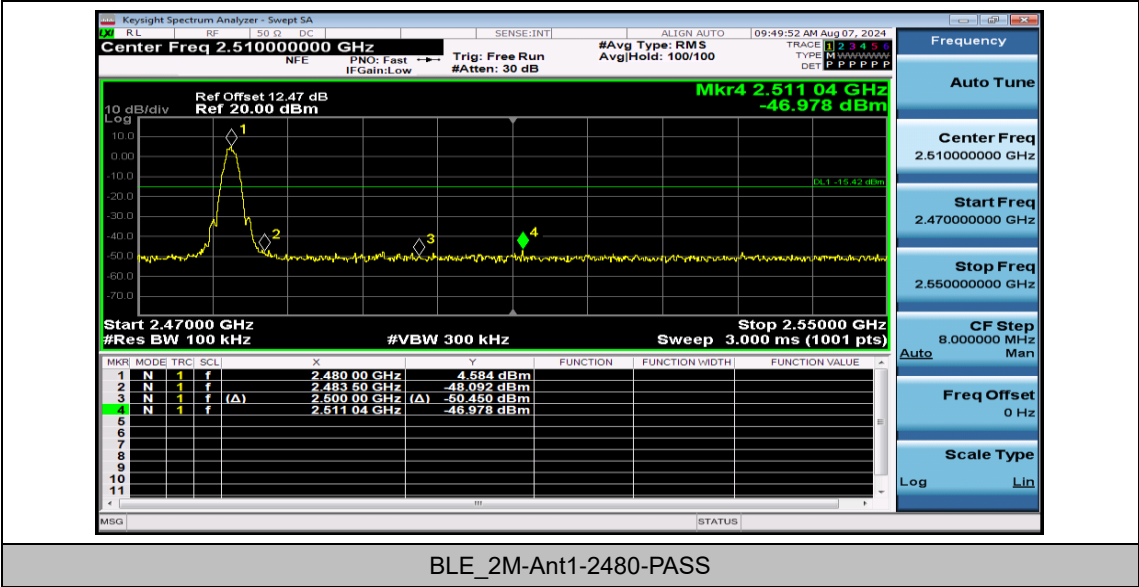
Scale Type
Lin

Log

BLE_2M-Ant1-2402-PASS

FCC ID: 2AV7A-TD02

IC: 26039-TD02

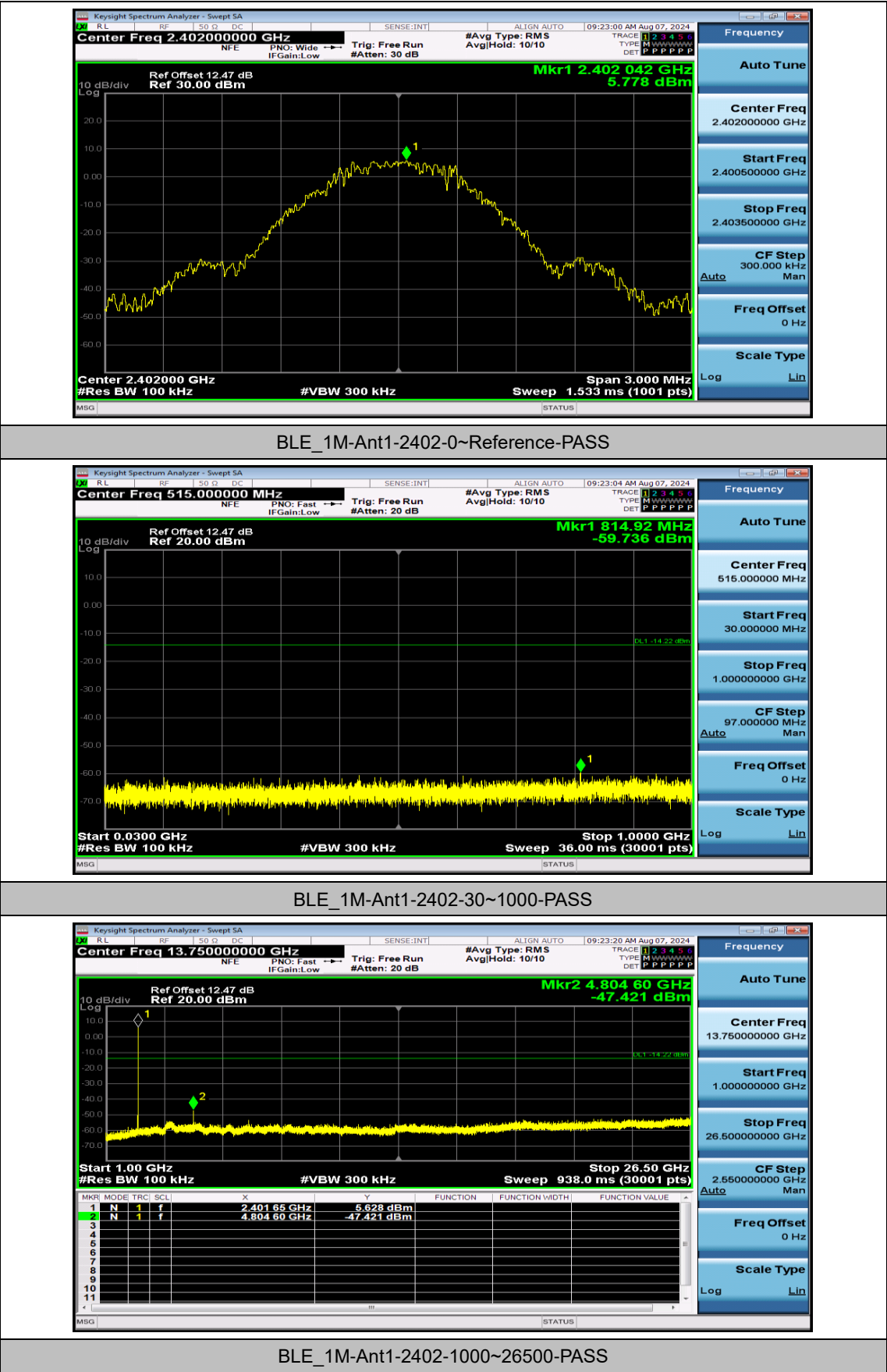


Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	5.78	5.78	---	PASS
BLE_1M	Ant1	2402	30~1000	5.78	-59.74	≤-14.22	PASS
BLE_1M	Ant1	2402	1000~26500	5.78	-47.42	≤-14.22	PASS
BLE_1M	Ant1	2440	0~Reference	5.91	5.91	---	PASS
BLE_1M	Ant1	2440	30~1000	5.91	-60.17	≤-14.09	PASS
BLE_1M	Ant1	2440	1000~26500	5.91	-44.72	≤-14.09	PASS
BLE_1M	Ant1	2480	0~Reference	5.57	5.57	---	PASS
BLE_1M	Ant1	2480	30~1000	5.57	-60.5	≤-14.43	PASS
BLE_1M	Ant1	2480	1000~26500	5.57	-46.33	≤-14.43	PASS
BLE_2M	Ant1	2402	0~Reference	4.44	4.44	---	PASS
BLE_2M	Ant1	2402	30~1000	4.44	-58.64	≤-15.56	PASS
BLE_2M	Ant1	2402	1000~26500	4.44	-48.17	≤-15.56	PASS
BLE_2M	Ant1	2440	0~Reference	4.25	4.25	---	PASS
BLE_2M	Ant1	2440	30~1000	4.25	-59.91	≤-15.75	PASS
BLE_2M	Ant1	2440	1000~26500	4.25	-49.21	≤-15.75	PASS
BLE_2M	Ant1	2480	0~Reference	4.58	4.58	---	PASS
BLE_2M	Ant1	2480	30~1000	4.58	-59.13	≤-15.42	PASS
BLE_2M	Ant1	2480	1000~26500	4.58	-46.69	≤-15.42	PASS

Test Graphs

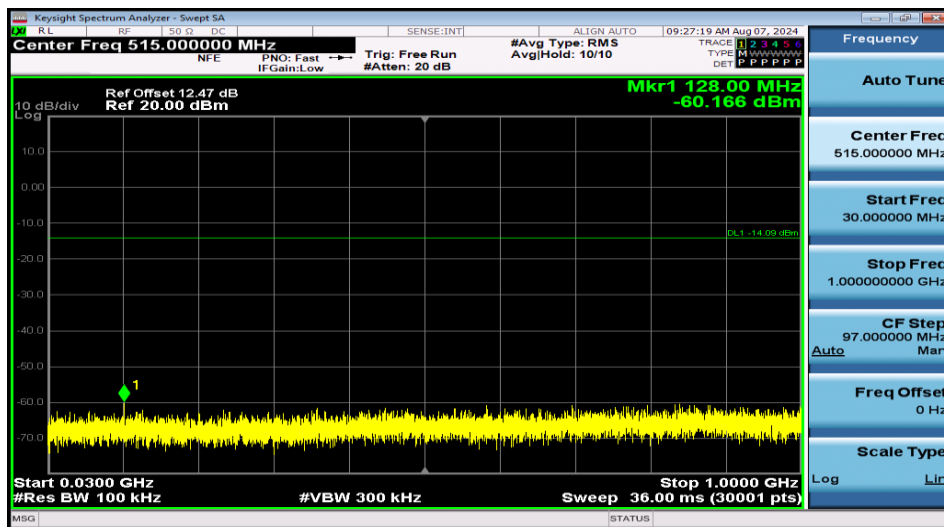


FCC ID: 2AV7A-TD02

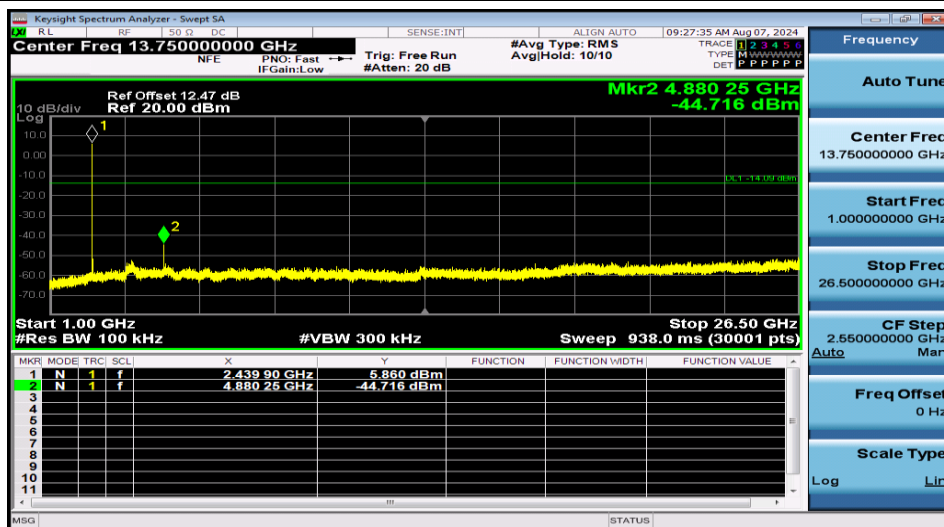
IC: 26039-TD02



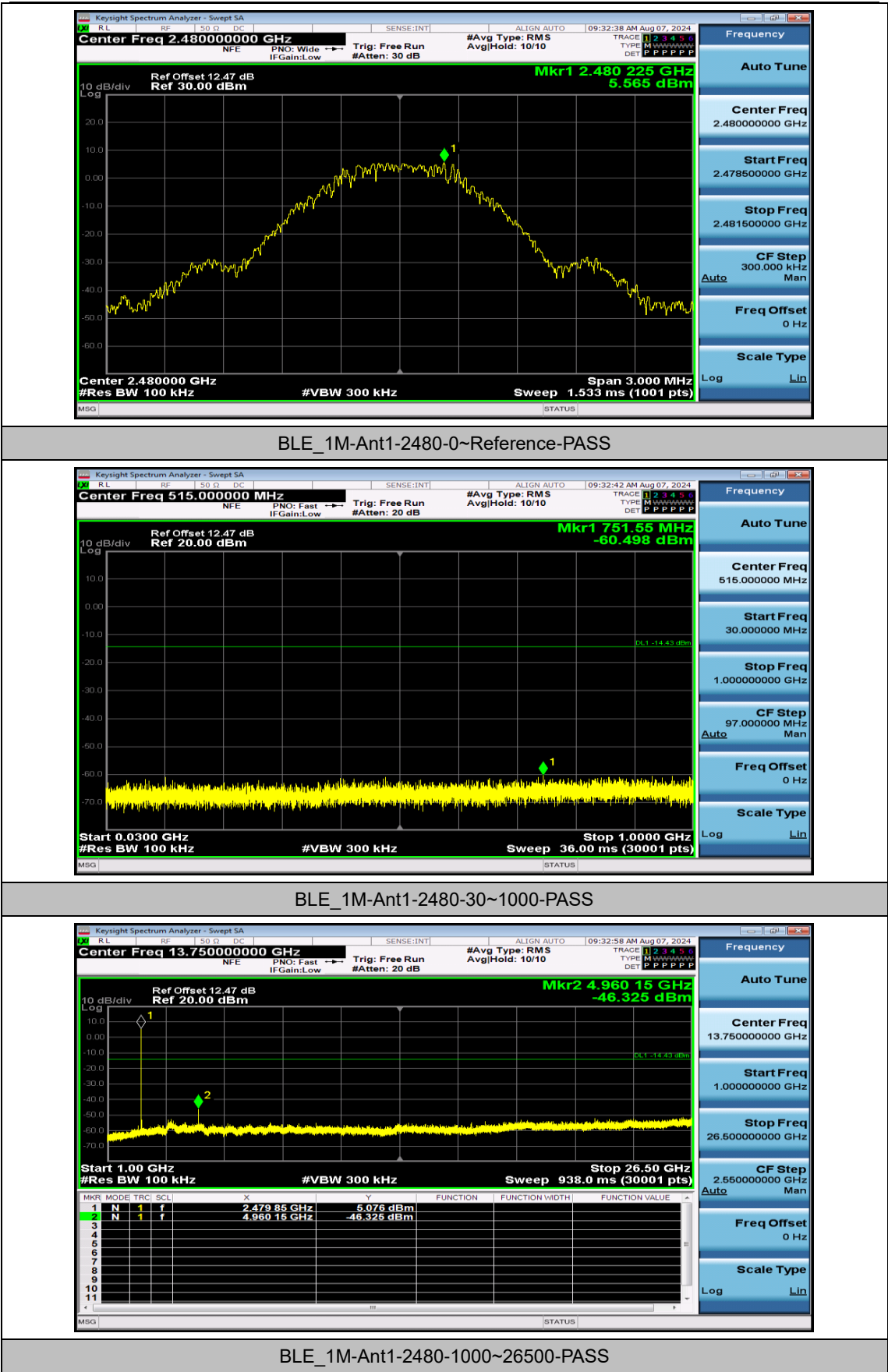
BLE_1M-Ant1-2440-0~Reference-PASS

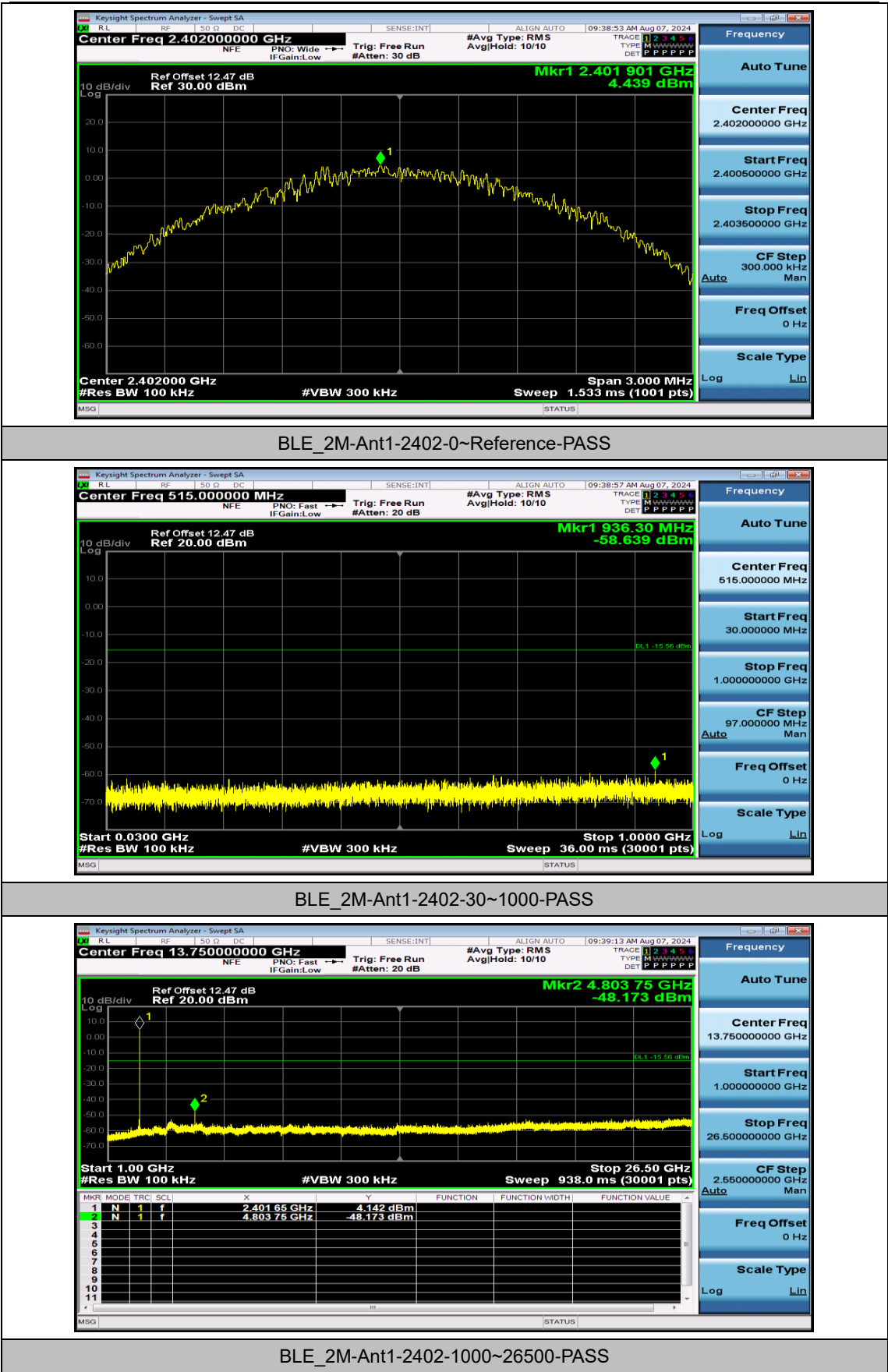


BLE_1M-Ant1-2440-30~1000-PASS



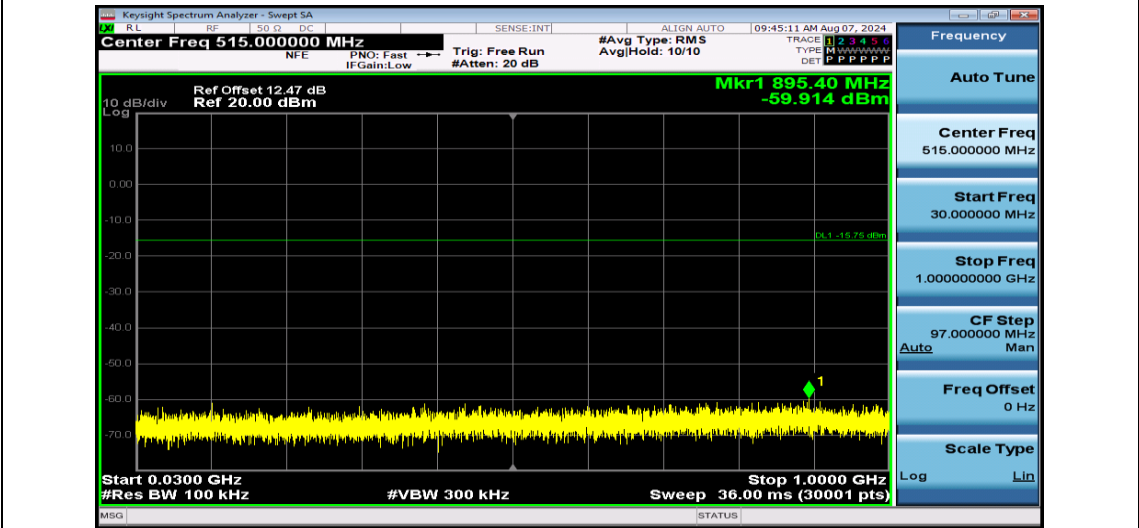
BLE_1M-Ant1-2440-1000~26500-PASS



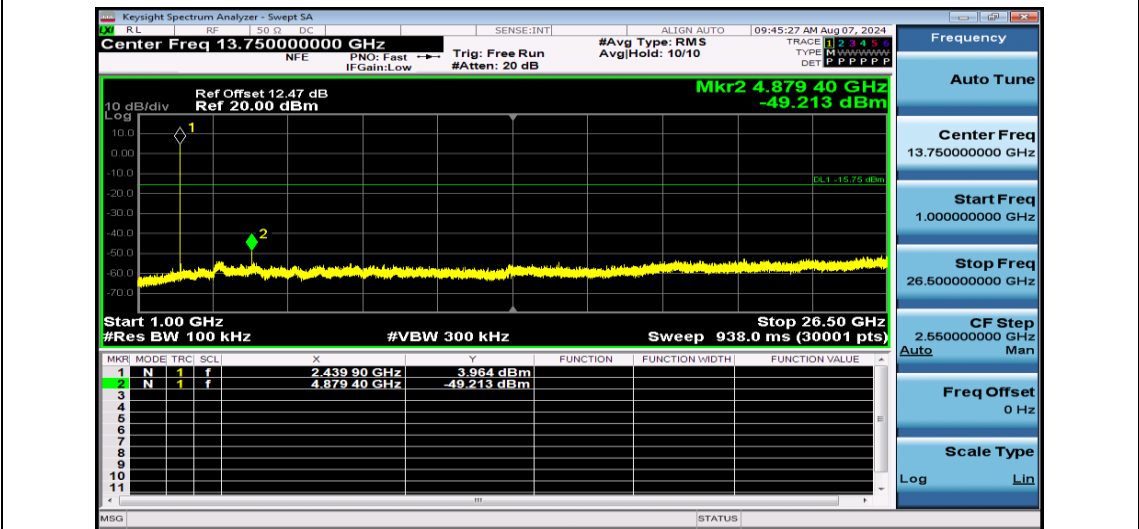




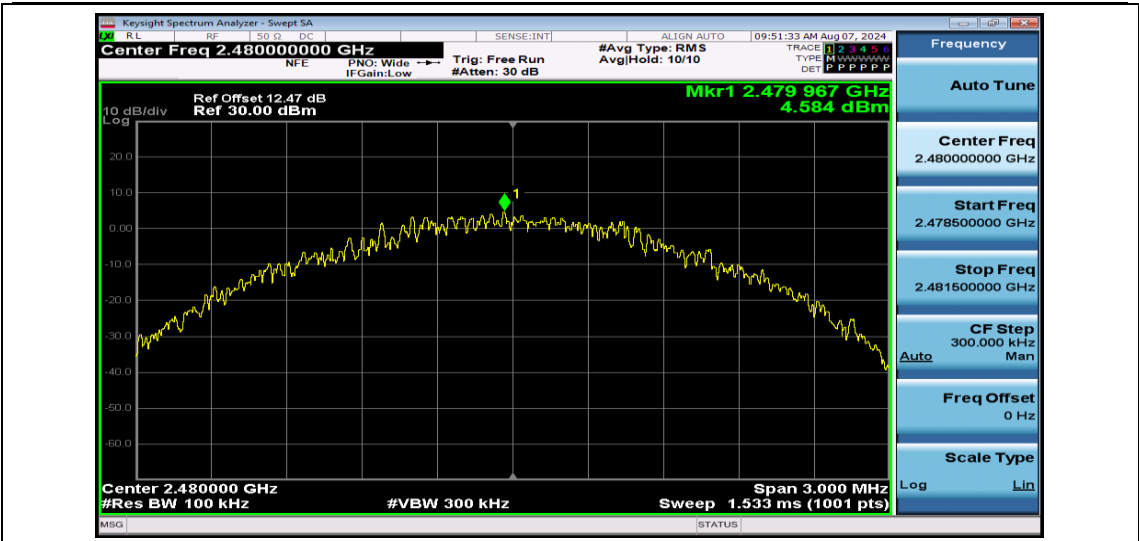
BLE_2M-Ant1-2440-0~Reference-PASS



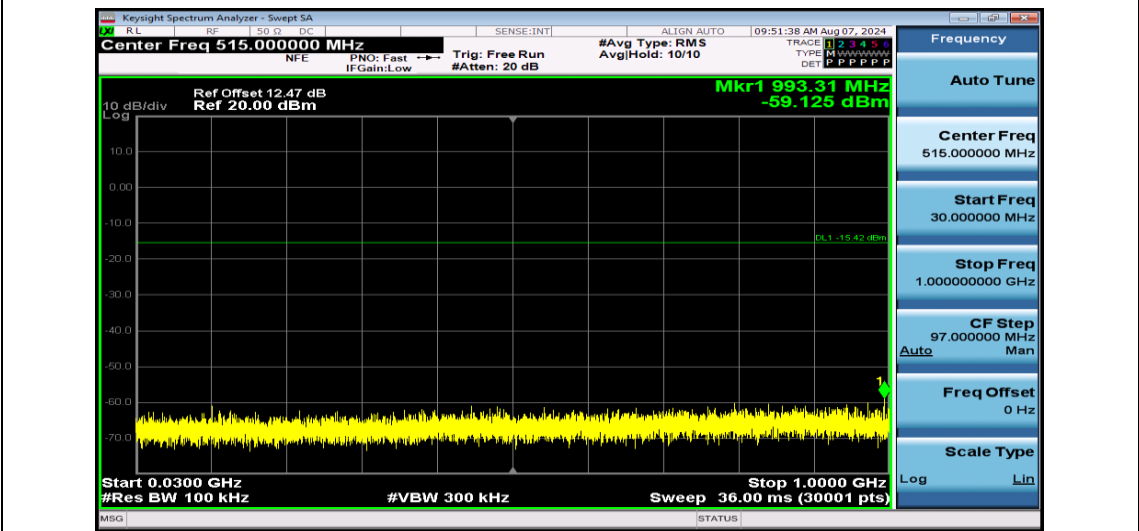
BLE_2M-Ant1-2440-30~1000-PASS



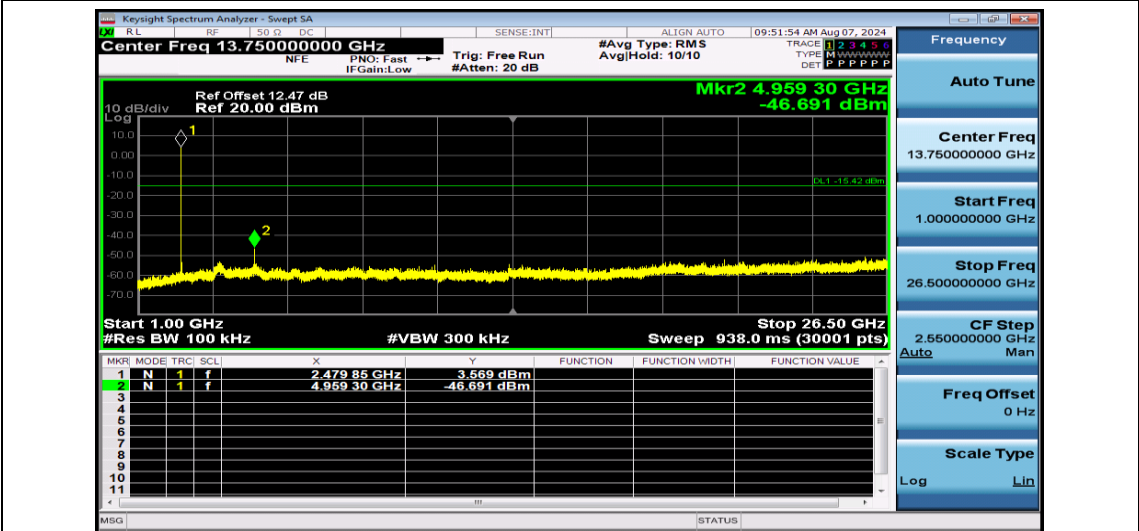
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS