

Appendix B of BLE

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.636	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.648	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.652	2480.328	0.5	PASS

Test Graphs



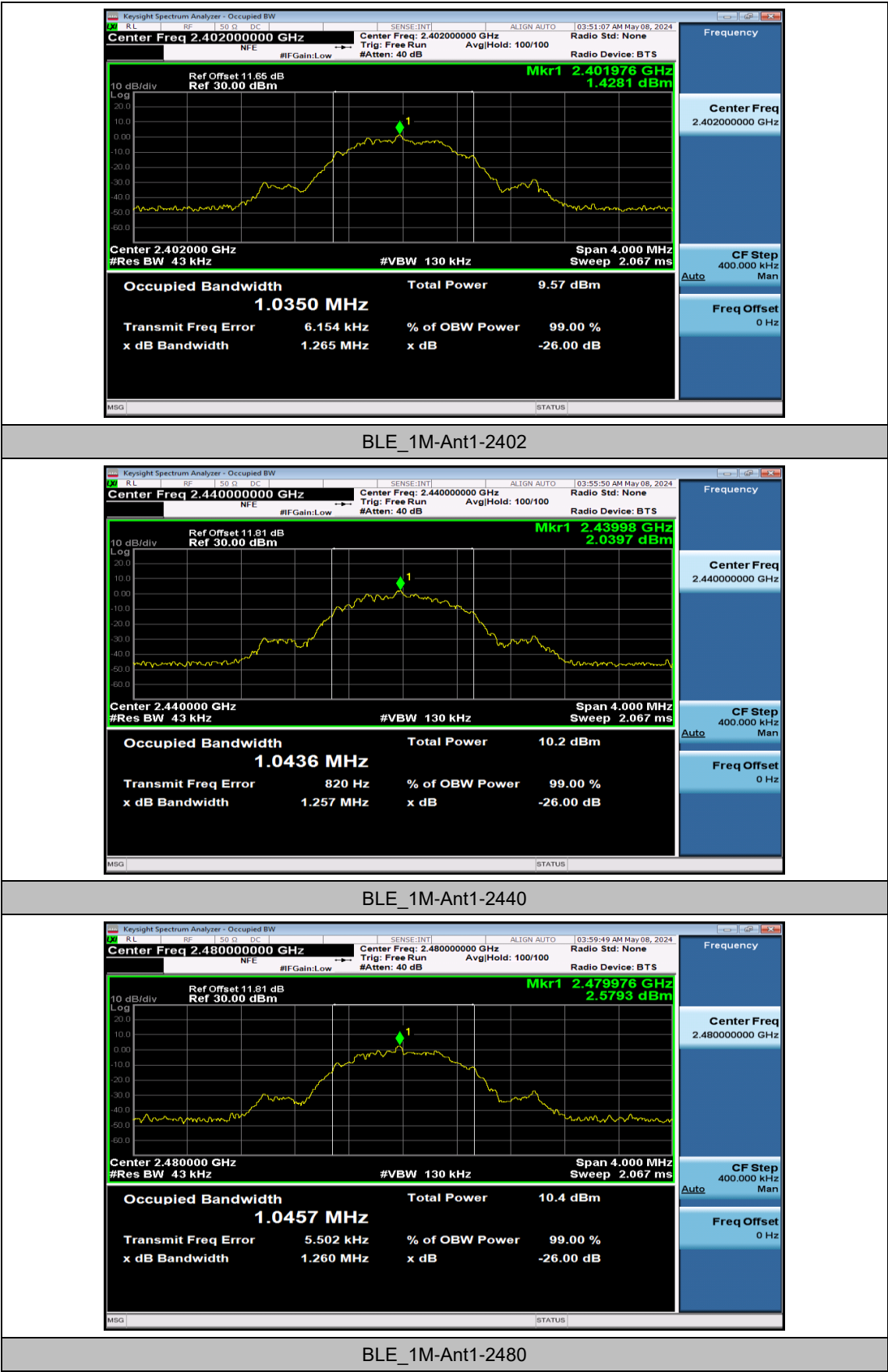
FCC ID: 2A64B-DDX39
IC: 28593-DDX39

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0350	2401.4887	2402.5237	---	---
BLE_1M	Ant1	2440	1.0436	2439.4790	2440.5226	---	---
BLE_1M	Ant1	2480	1.0457	2479.4827	2480.5284	---	---

Test Graphs

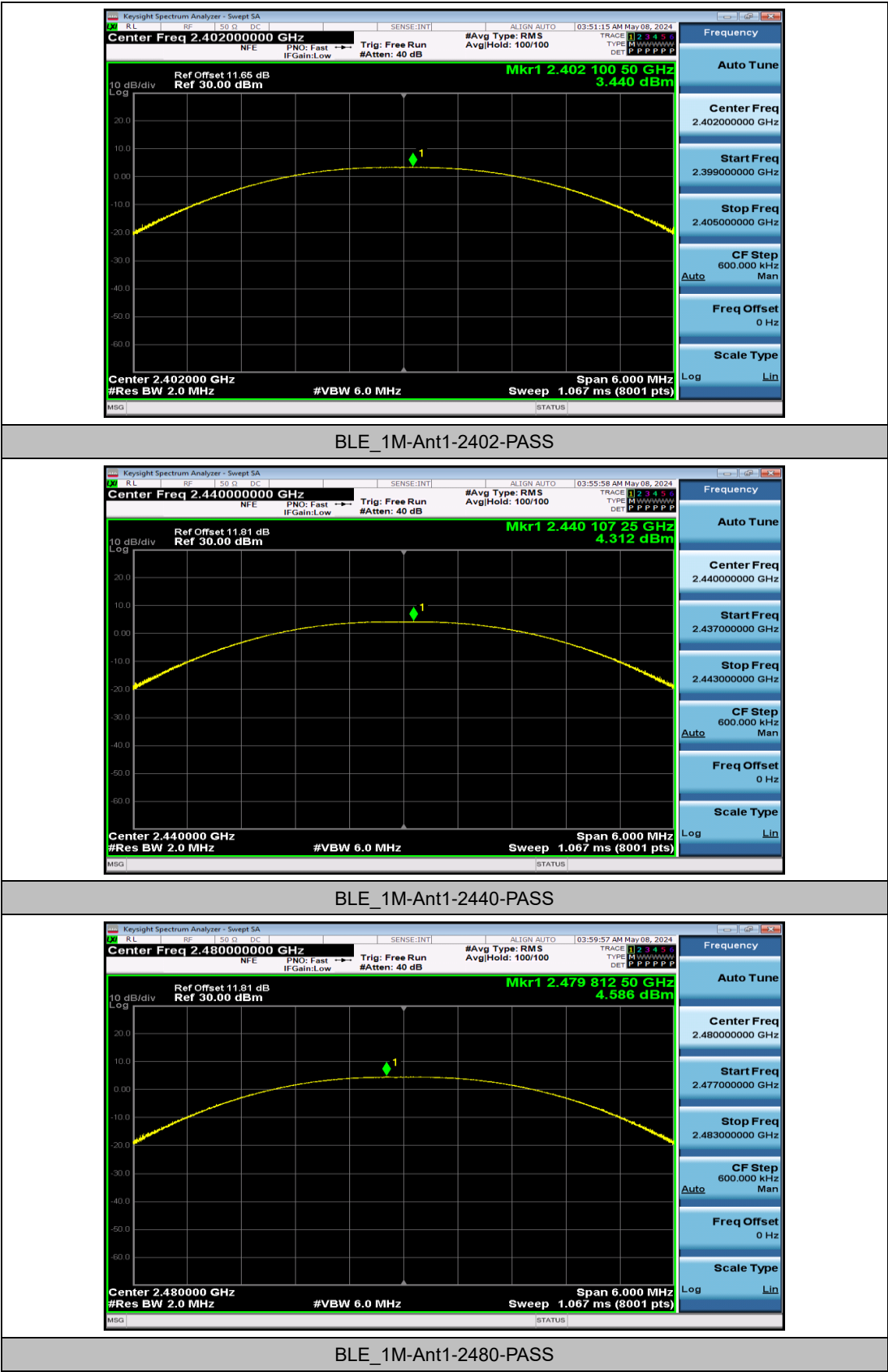


Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.44	≤30	8.36	≤36	PASS
BLE_1M	Ant1	2440	4.31	≤30	9.23	≤36	PASS
BLE_1M	Ant1	2480	4.59	≤30	9.51	≤36	PASS

Test Graphs Peak



BLE_1M-Ant1-2440-PASS

Keysight Spectrum Analyzer - Swept SA

RL

RF

50 Ω

DC

SENSE:INT

ALIGN: AUTO

03:59:57 AM May08, 2024

Center Freq 2.480000000 GHz

NFE

PNO: Fast

IF Gain: Low

Trig: Free Run

#Avg Type: RMS

Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE M Power

DET P P P P P

Ref Offset 11.81 dB

Ref 30.00 dBm

Mkr1 2.479 812 50 GHz

4.586 dBm

10 dB/div

Log

Center 2.480000 GHz

#Res BW 2.0 MHz

#VBW 6.0 MHz

Sweep 1.067 ms (8001 pts)

Span 6.000 MHz

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.477000000 GHz

Stop Freq
2.483000000 GHz

CF Step
600.000 kHz
Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin

BLE_1M-Ant1-2480-PASS

FCC ID:2A64B-DDX39

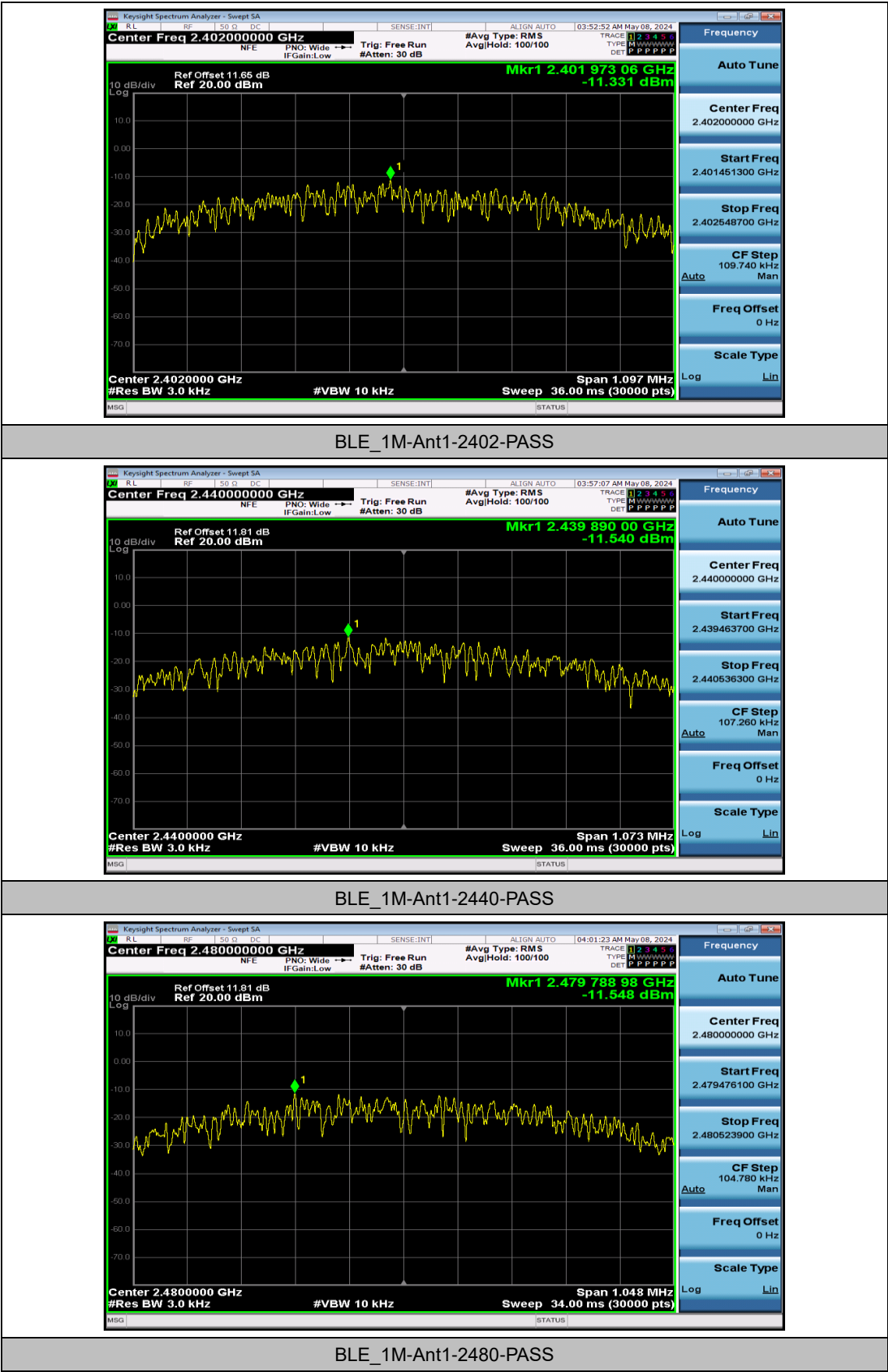
IC:28593-DDX39

Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.33	≤8.00	PASS
BLE_1M	Ant1	2440	-11.54	≤8.00	PASS
BLE_1M	Ant1	2480	-11.55	≤8.00	PASS

Test Graphs



FCC ID:2A64B-DDX39

IC:28593-DDX39

Band edge measurements

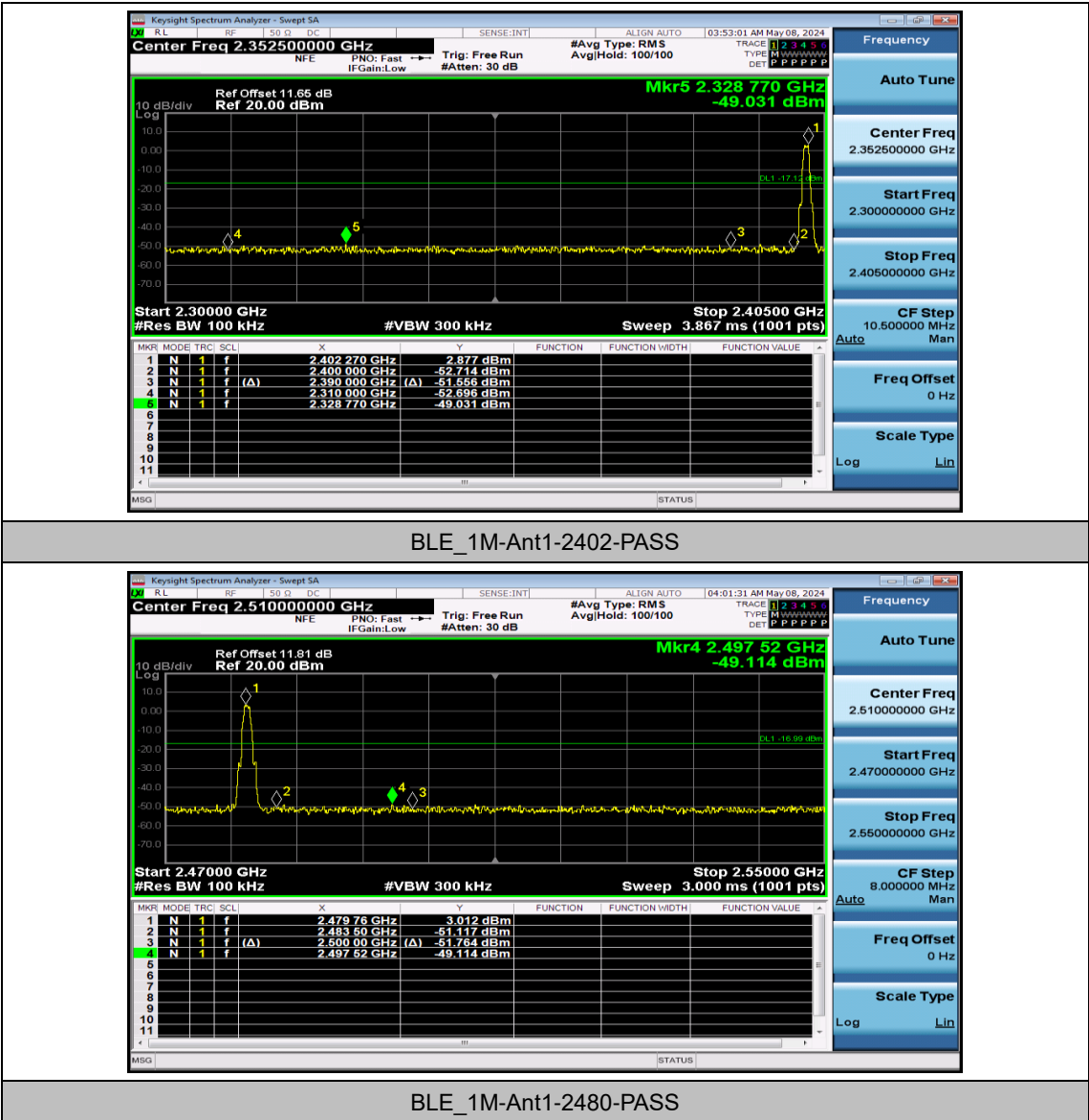
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.88	-49.03	≤-17.12	PASS
BLE_1M	Ant1	High	2480	3.01	-49.11	≤-16.99	PASS

FCC ID:2A64B-DDX39

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Test Graphs



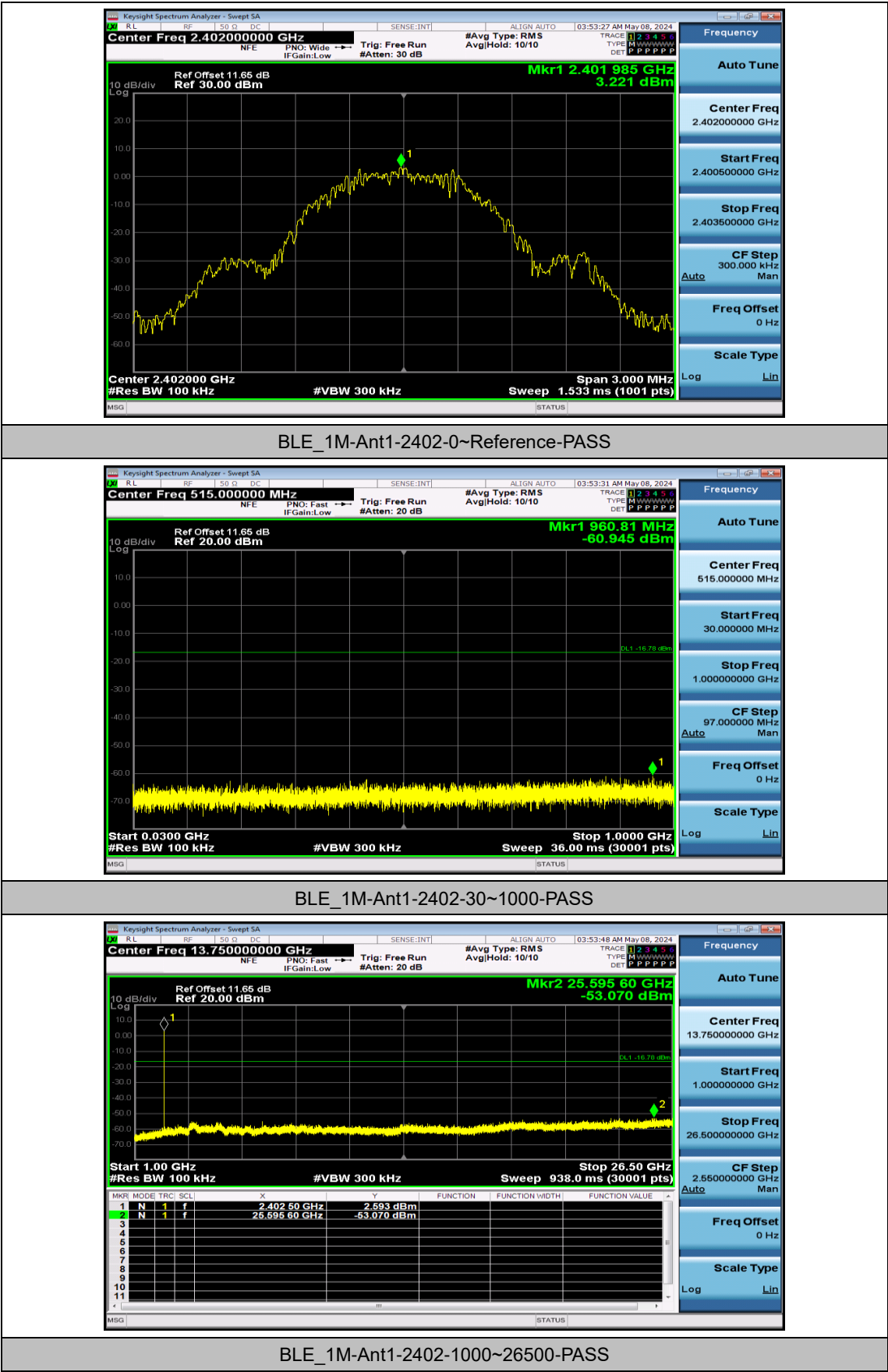
FCC ID: 2A64B-DDX39
IC: 28593-DDX39

Conducted Spurious Emission

Test Result

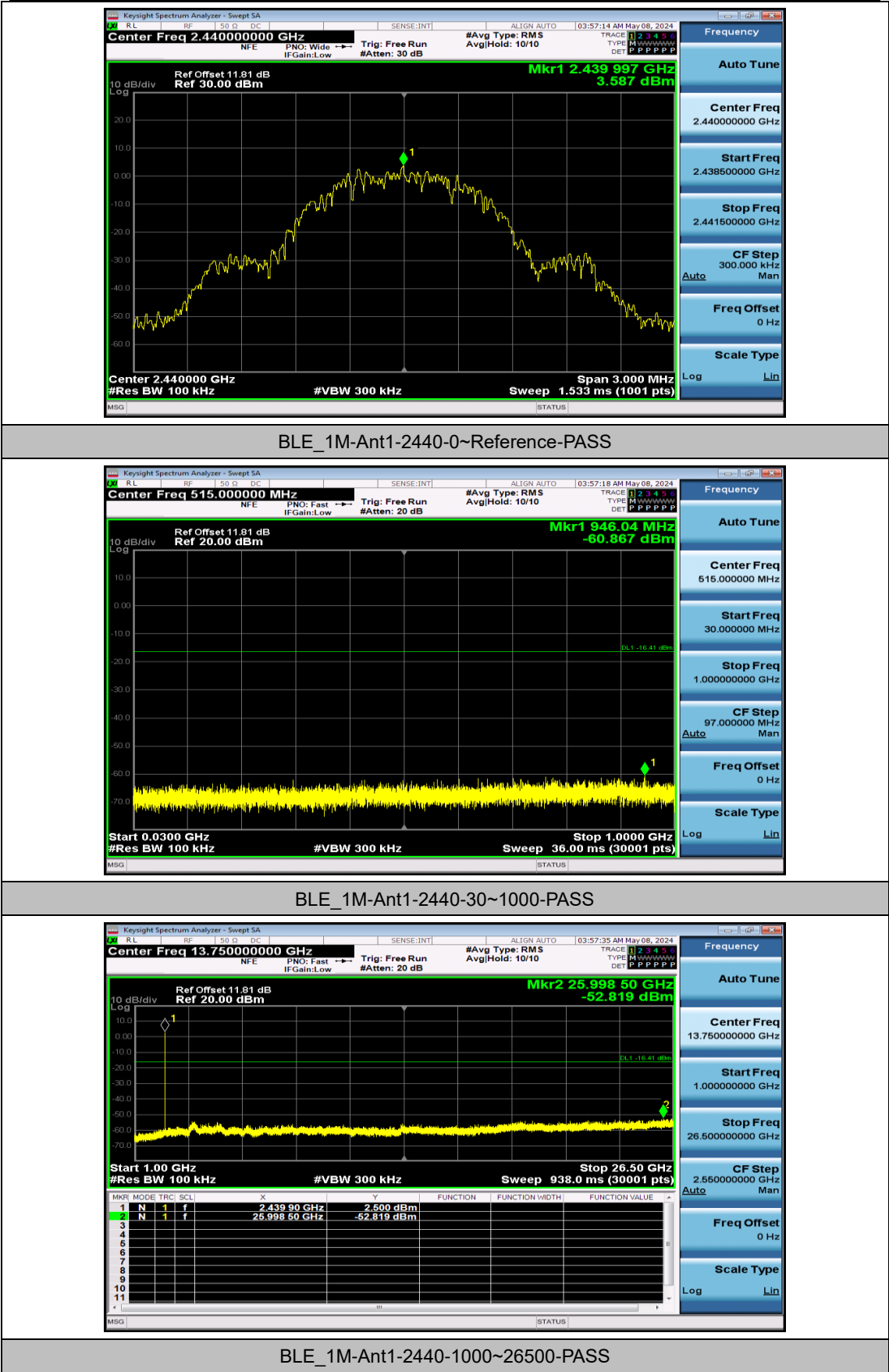
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.22	3.22	---	PASS
BLE_1M	Ant1	2402	30~1000	3.22	-60.95	≤-16.78	PASS
BLE_1M	Ant1	2402	1000~26500	3.22	-53.07	≤-16.78	PASS
BLE_1M	Ant1	2440	0~Reference	3.59	3.59	---	PASS
BLE_1M	Ant1	2440	30~1000	3.59	-60.87	≤-16.41	PASS
BLE_1M	Ant1	2440	1000~26500	3.59	-52.82	≤-16.41	PASS
BLE_1M	Ant1	2480	0~Reference	3.13	3.13	---	PASS
BLE_1M	Ant1	2480	30~1000	3.13	-60.88	≤-16.87	PASS
BLE_1M	Ant1	2480	1000~26500	3.13	-52.72	≤-16.87	PASS

Test Graphs



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IC:28593-DDX39



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