

Appendix I BLE Test Data**Applicant:** SHEN ZHEN LIAN JI XING TECHNOLOGY CO., LTD**Report No:** DLE-250618004R**EUT:** Projector**M/N:** J15**Standard:**FCC Part15 Subpart C, Section 15.247**Test Power Supply:** DC 12V from Adapter**Ambient Condition:** 24.7 °C, 52 %RH, 101.325 kPa**Test Date:** 2025.06.16**Test Engineer:** Ken Tan

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.168	2401.404	2402.572	0.5	PASS
		2440	1.168	2439.408	2440.576	0.5	PASS
		2480	1.164	2479.408	2480.572	0.5	PASS

Test Graphs



Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	2.0567	2400.9684	2403.0251	---	---
		2440	2.0624	2438.9811	2441.0435	---	---
		2480	2.0311	2478.9844	2481.0155	---	---

BLE_2M_Ant1_2402

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.402000000 GHz

Ref Offset 9.28 dB
Ref 20.00 dBm

Mkr1 2.40198 GHz
-6.7184 dBm

Center 2.402 GHz
#Res BW 43 kHz

#VBW 130 kHz

Span 4 MHz

Sweep 6.6 ms

Occupied Bandwidth 2.0567 MHz

Total Power 2.41 dBm

Transmit Freq Error -3.264 kHz

OBW Power 99.00 %

x dB Bandwidth 2.476 MHz

x dB -26.00 dB

Frequency

Center Freq 2.402000000 GHz

CF Step 400.000 kHz

Freq Offset 0 Hz

BLE_2M_Ant1_2440

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.440000000 GHz

Ref Offset 9.28 dB
Ref 20.00 dBm

Mkr1 2.439644 GHz
-7.9027 dBm

Center 2.44 GHz
#Res BW 43 kHz

#VBW 130 kHz

Span 4 MHz

Sweep 6.6 ms

Occupied Bandwidth 2.0624 MHz

Total Power 2.49 dBm

Transmit Freq Error 12.285 kHz

OBW Power 99.00 %

x dB Bandwidth 2.512 MHz

x dB -26.00 dB

Frequency

Center Freq 2.440000000 GHz

CF Step 400.000 kHz

Freq Offset 0 Hz

BLE_2M_Ant1_2480

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.480000000 GHz

Ref Offset 9.28 dB
Ref 20.00 dBm

Mkr1 2.479648 GHz
-7.6444 dBm

Center 2.48 GHz
#Res BW 43 kHz

#VBW 130 kHz

Span 4 MHz

Sweep 6.6 ms

Occupied Bandwidth 2.0311 MHz

Total Power 3.03 dBm

Transmit Freq Error -105 Hz

OBW Power 99.00 %

x dB Bandwidth 2.509 MHz

x dB -26.00 dB

Frequency

Center Freq 2.480000000 GHz

CF Step 400.000 kHz

Freq Offset 0 Hz

Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_2M	Ant1	2402	-1.32	≤30	PASS
		2440	-1.06	≤30	PASS
		2480	-0.62	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-18.75	≤8.00	PASS
		2440	-18.35	≤8.00	PASS
		2480	-18.05	≤8.00	PASS

Test Graphs

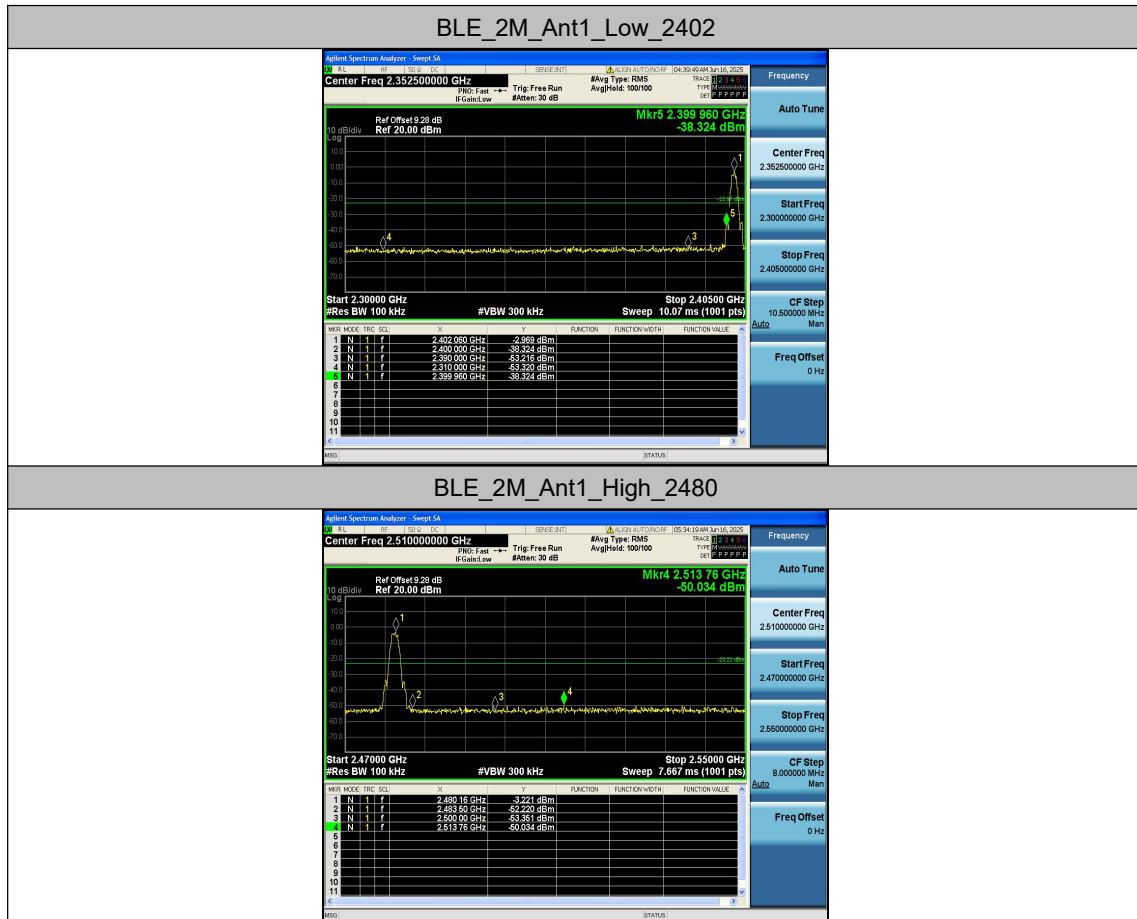


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	Low	2402	-2.97	-38.32	≤ -22.97	PASS
		High	2480	-3.22	-50.03	≤ -23.22	PASS

Test Graphs

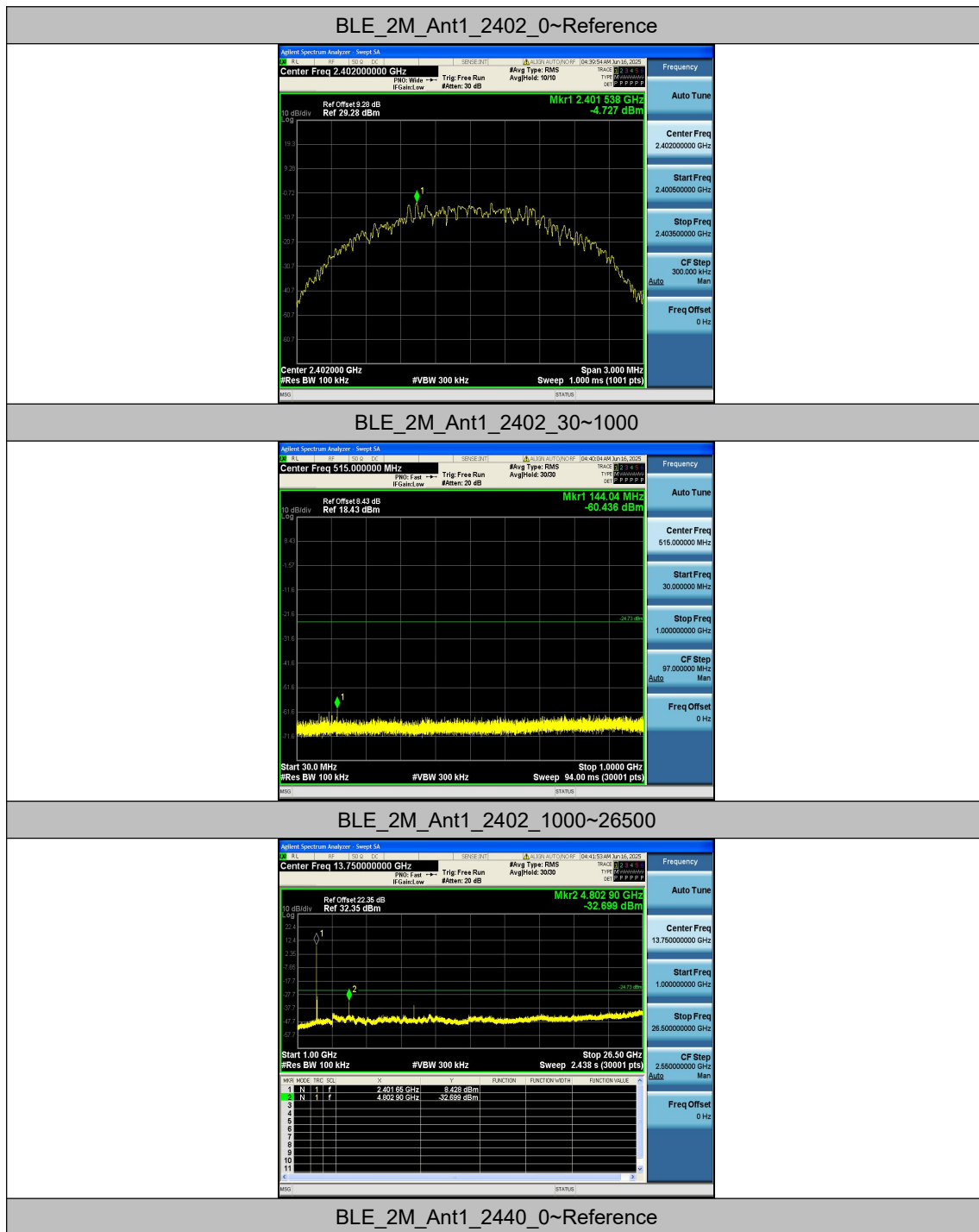


Appendix F: Conducted Spurious Emission

Test Result

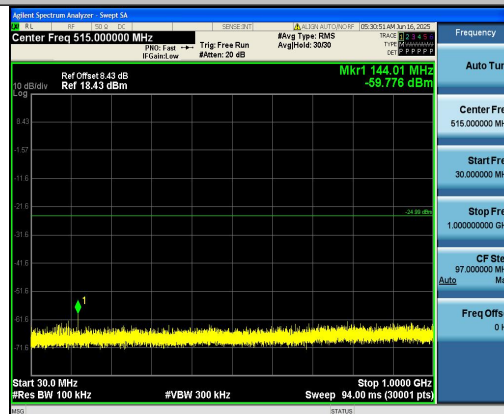
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	2402	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-60.44	≤-24.73	PASS
			1000~26500	-4.73	-32.7	≤-24.73	PASS
		2440	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-59.78	≤-24.99	PASS
			1000~26500	-4.99	-35.8	≤-24.99	PASS
		2480	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-60.94	≤-24.04	PASS
			1000~26500	-4.04	-37.56	≤-24.04	PASS

Test Graphs

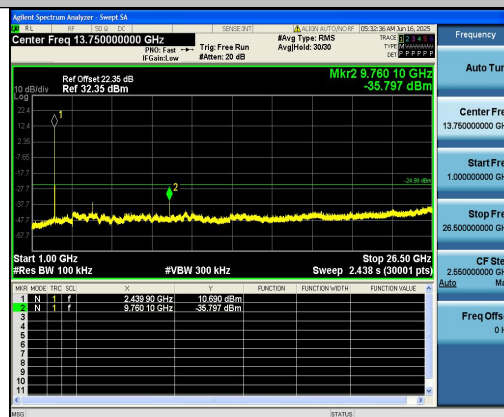




BLE_2M_Ant1_2440_30~1000



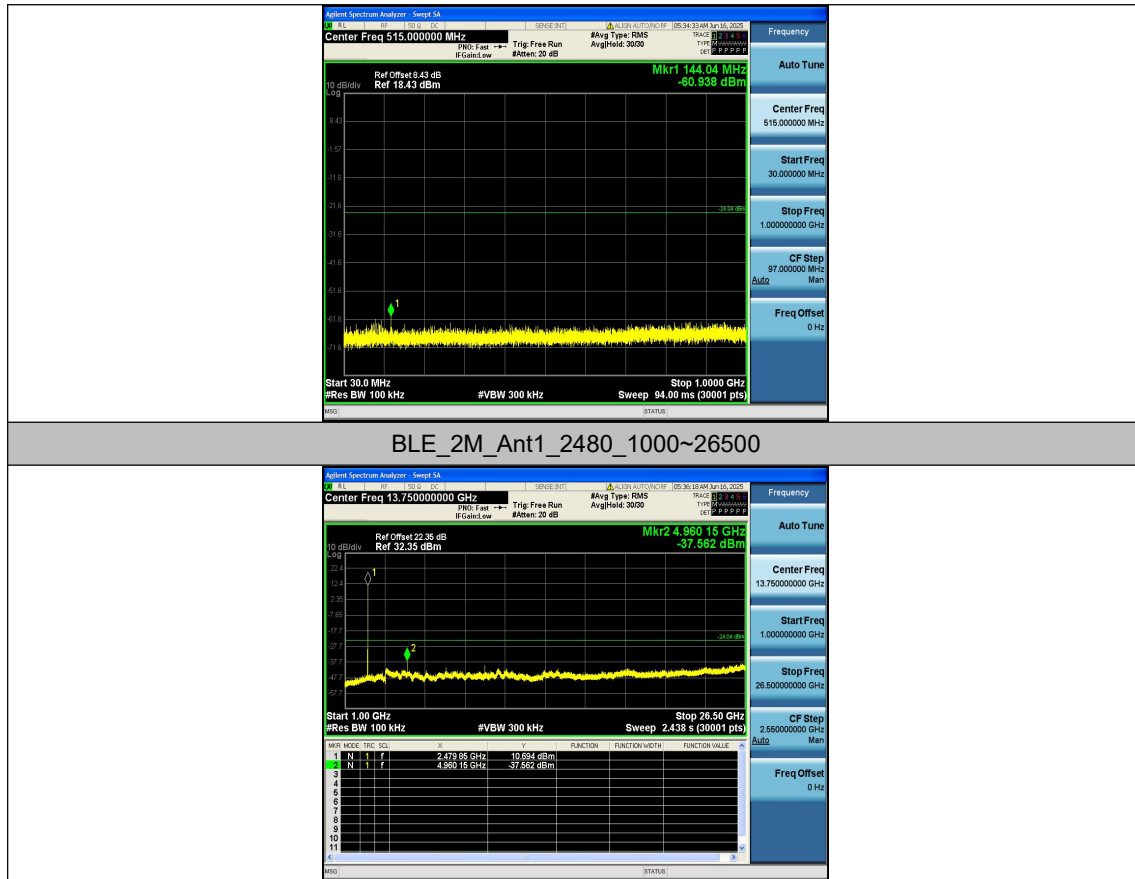
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



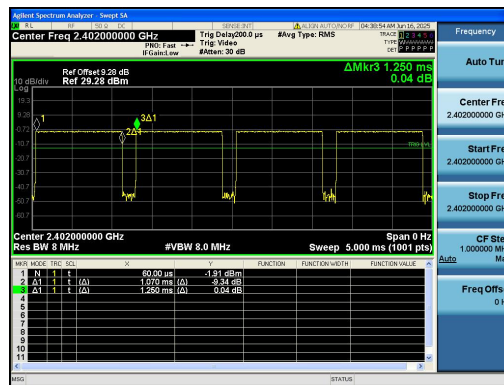
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_2M	Ant1	2402	1.07	1.25	0.8560	85.60	0.68	---	---
		2440	1.07	1.25	0.8560	85.60	0.68	---	---
		2480	1.08	1.25	0.8640	86.40	0.63	---	---

Test Graphs

BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

