Appendix for Bluetooth BLE mode

Product Name: Mobile Game Stretchable Controller

Model No: Y-D002-710

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Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.668	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.672	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.656	2480.324	0.5	PASS

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

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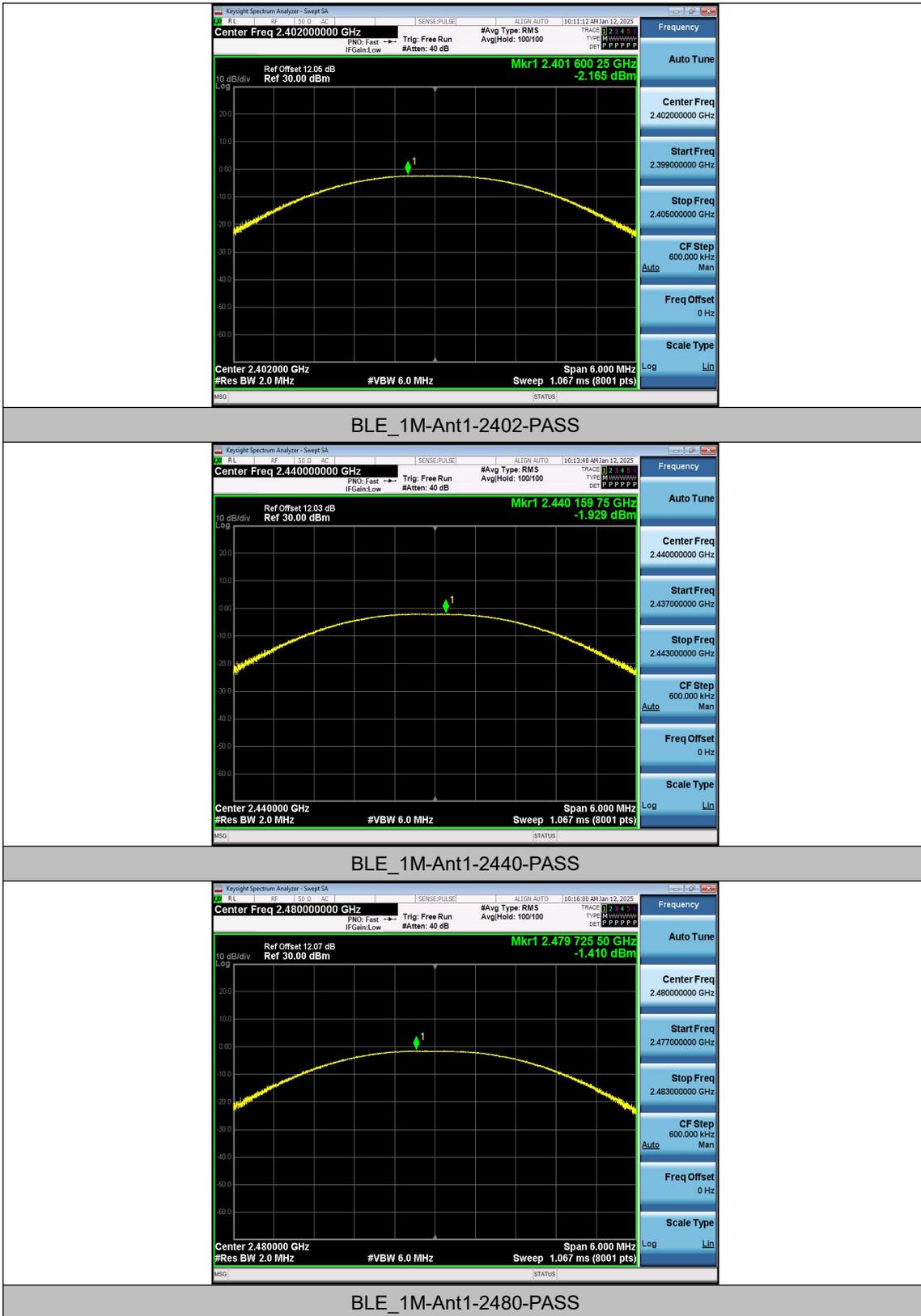Http://www.waltek.com.cn

Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.17	≤30	PASS
BLE_1M	Ant1	2440	-1.93	≤30	PASS
BLE_1M	Ant1	2480	-1.41	≤30	PASS

Test Graphs Peak

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

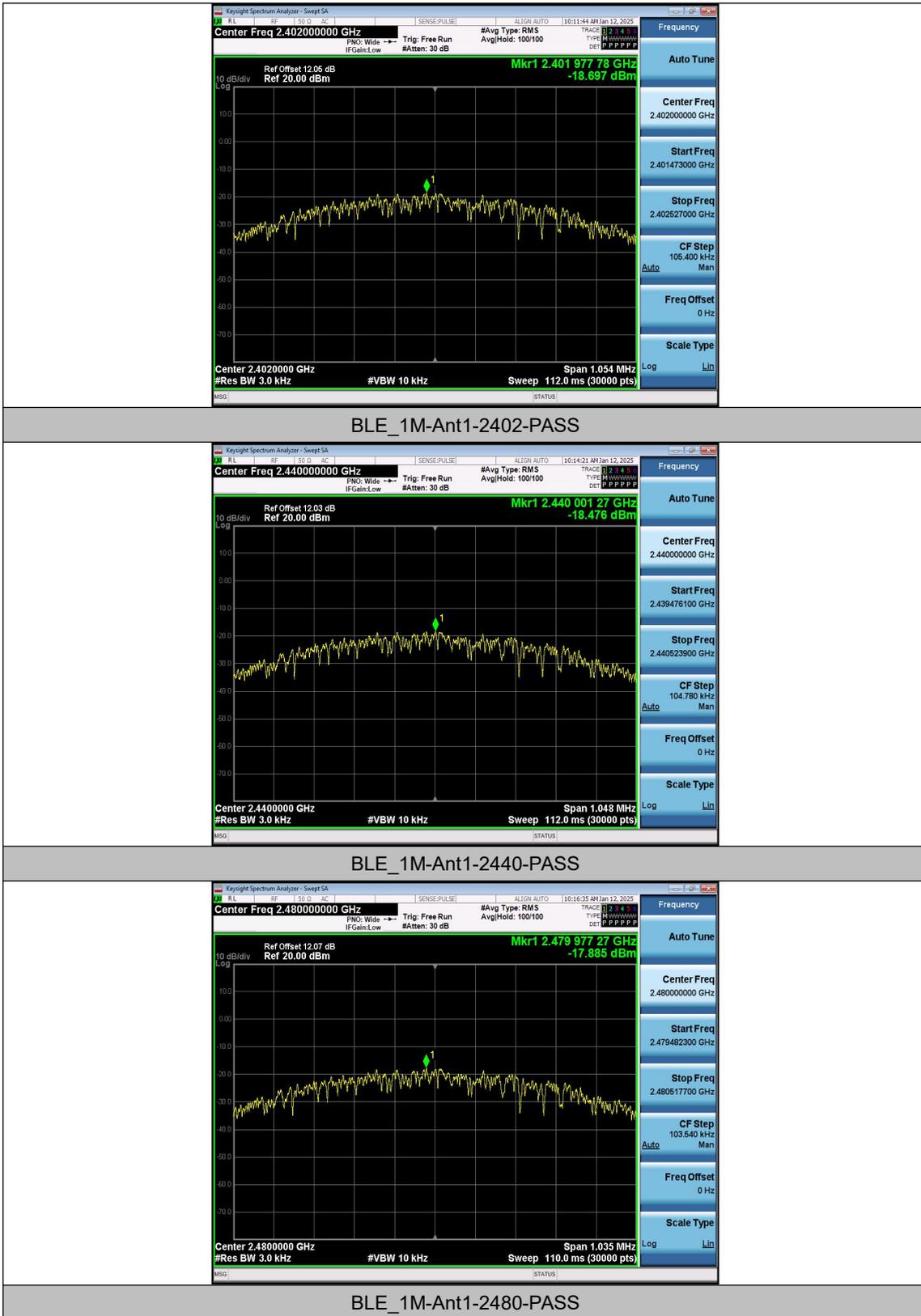Waltek Testing Group (Shenzhen) Co., Ltd.
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Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.70	≤8.00	PASS
BLE_1M	Ant1	2440	-18.48	≤8.00	PASS
BLE_1M	Ant1	2480	-17.89	≤8.00	PASS

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	-3.45
BLE_1M	Ant1	2440	2440.01	-3.12
BLE_1M	Ant1	2480	2480.01	-2.71

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

Waltek Testing Group (Shenzhen) Co., Ltd.
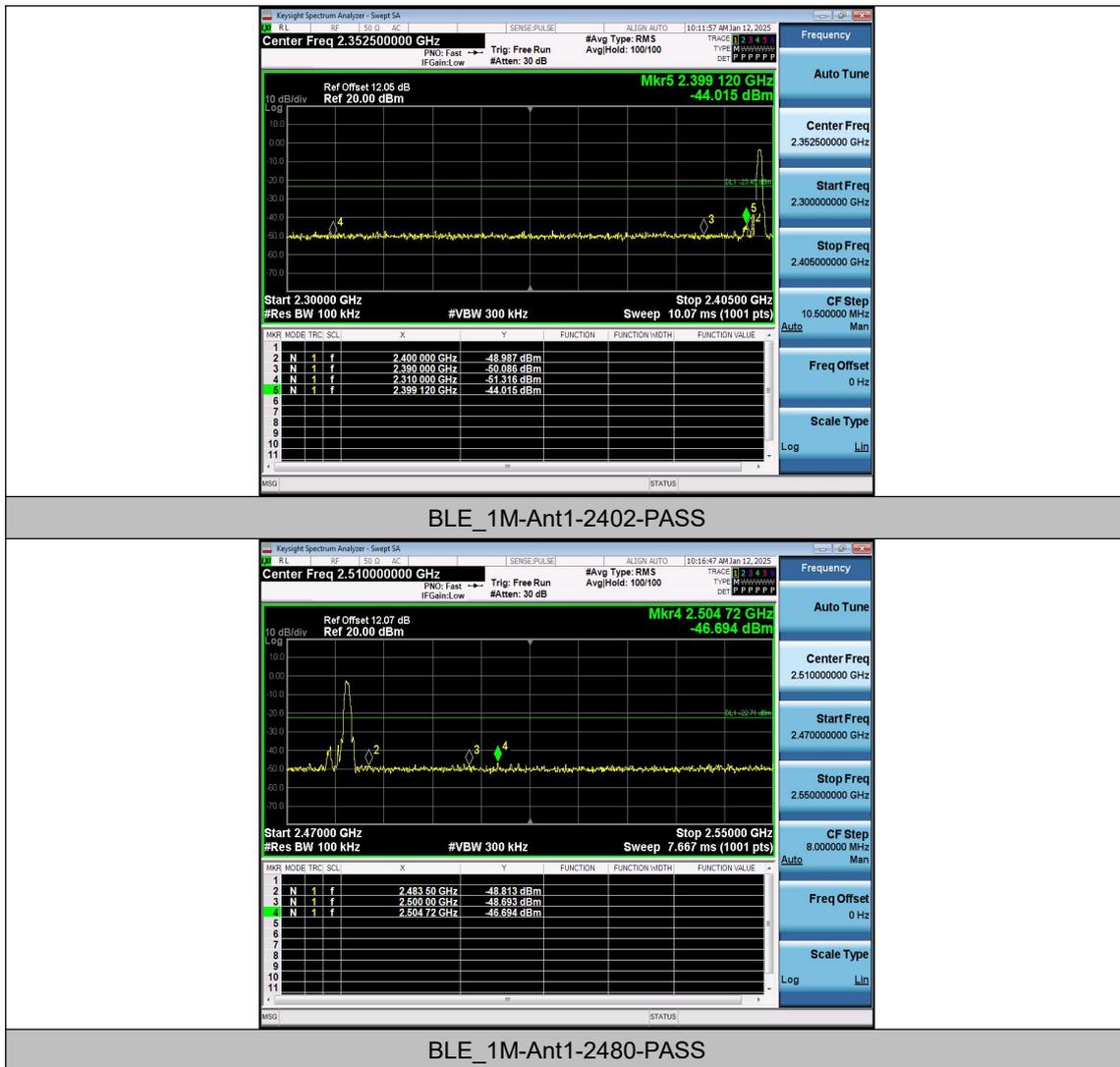Http://www.waltek.com.cn

Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.45	-44.02	≤-23.45	PASS
BLE_1M	Ant1	High	2480	-2.71	-46.69	≤-22.71	PASS

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS

Waltek Testing Group (Shenzhen) Co., Ltd.
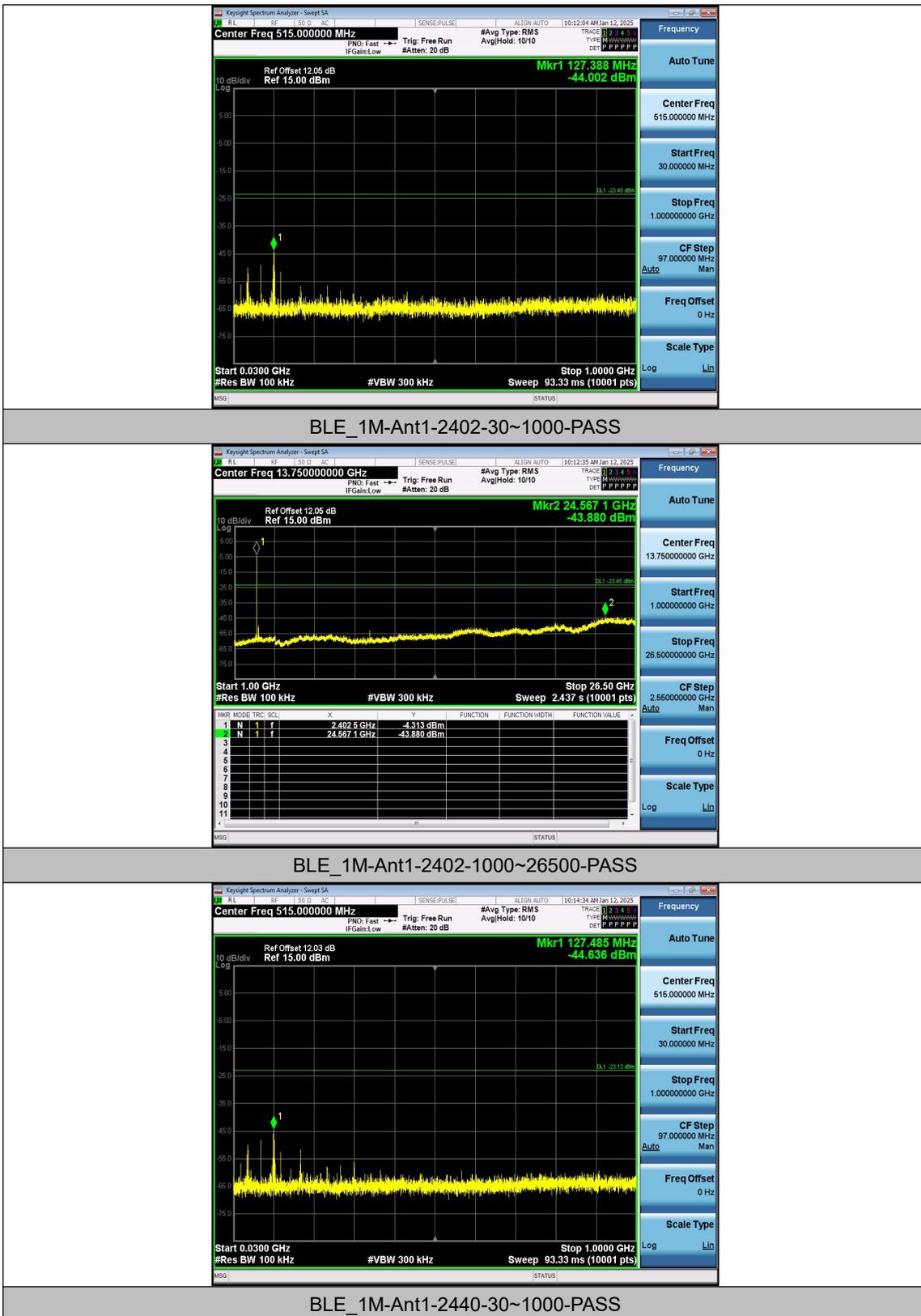Http://www.waltek.com.cn

Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-3.45	-44	≤-23.45	PASS
BLE_1M	Ant1	2402	1000~26500	-3.45	-43.88	≤-23.45	PASS
BLE_1M	Ant1	2440	30~1000	-3.12	-44.64	≤-23.12	PASS
BLE_1M	Ant1	2440	1000~26500	-3.12	-43.91	≤-23.12	PASS
BLE_1M	Ant1	2480	30~1000	-2.71	-45.24	≤-22.71	PASS
BLE_1M	Ant1	2480	1000~26500	-2.71	-43.75	≤-22.71	PASS

Test Graphs

BLE_1M-Ant1-2402-30~1000-PASS

BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-30~1000-PASS

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BLE_1M-Ant1-2440-1000~26500-PASS
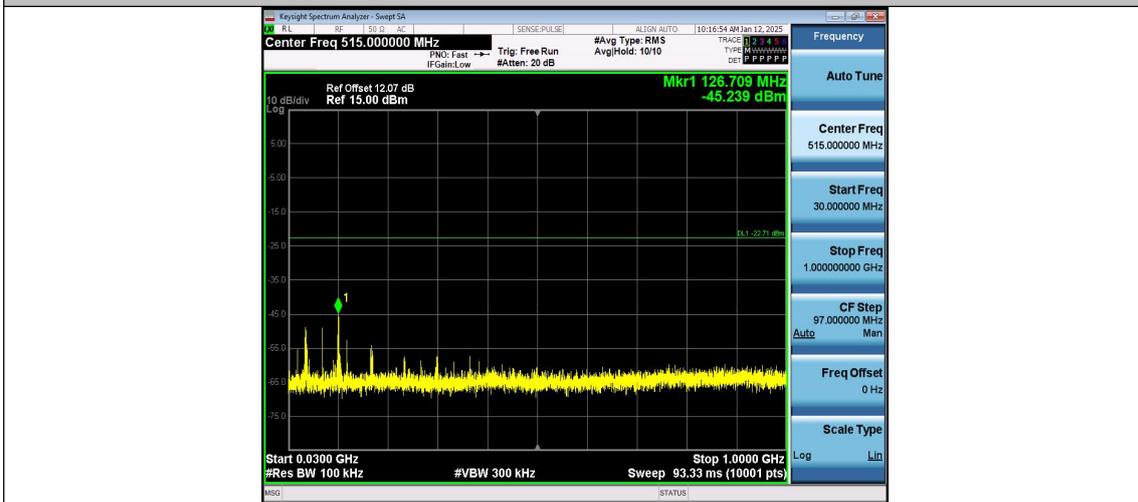
BLE_1M-Ant1-2480-30~1000-PASS

BLE_1M-Ant1-2480-1000~26500-PASS