

Appendix E for BT LE RF Test Data

Product Name: Portable power station

Test Model: BP2000E PRO

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Taylor Hu





E.1 RF Output Power

Test Result

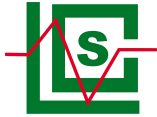
Test Condition	Test Mode	Antenna	Freq(MHz)	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NVNT	BLE_1M	Ant1	2402	-1.24	20	PASS
			2440	-2.23	20	PASS
			2480	-2.44	20	PASS

Test Condition	Test Mode	Antenna	Freq(MHz)	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NVLT	BLE_1M	Ant1	2402	-1.39	20	PASS
			2440	-2.45	20	PASS
			2480	-2.50	20	PASS

Test Condition	Test Mode	Antenna	Freq(MHz)	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NVHT	BLE_1M	Ant1	2402	-2.32	20	PASS
			2440	-3.33	20	PASS
			2480	-3.56	20	PASS

***Note: 20 bursts had been captured for power measurement.





E.2 Power Spectral Density

Test Result

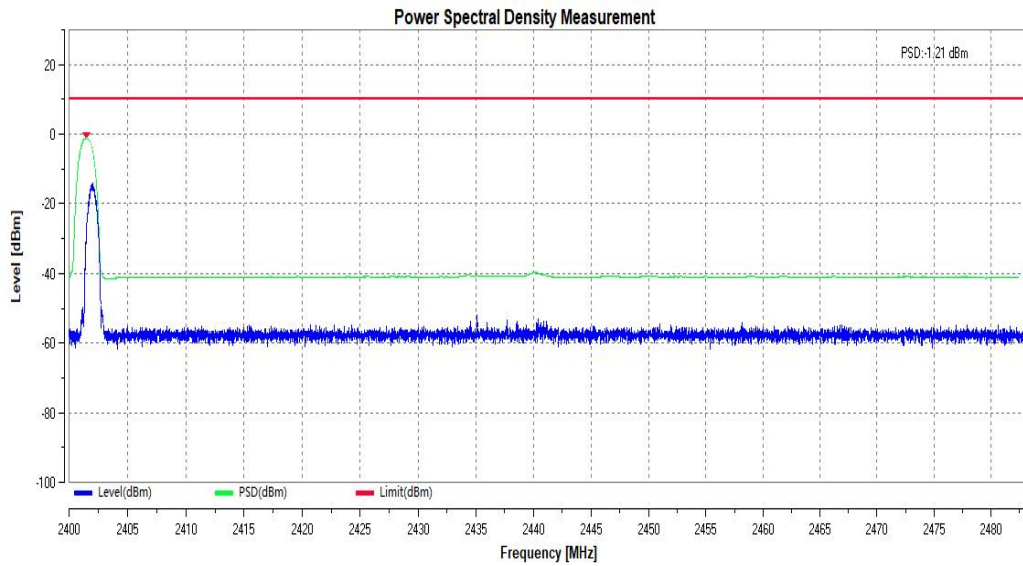
TestMode	Antenna	Freq(MHz)	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
BLE_1M	Ant1	2402	-1.21	10	PASS
		2440	-6.17	10	PASS
		2480	-6.51	10	PASS



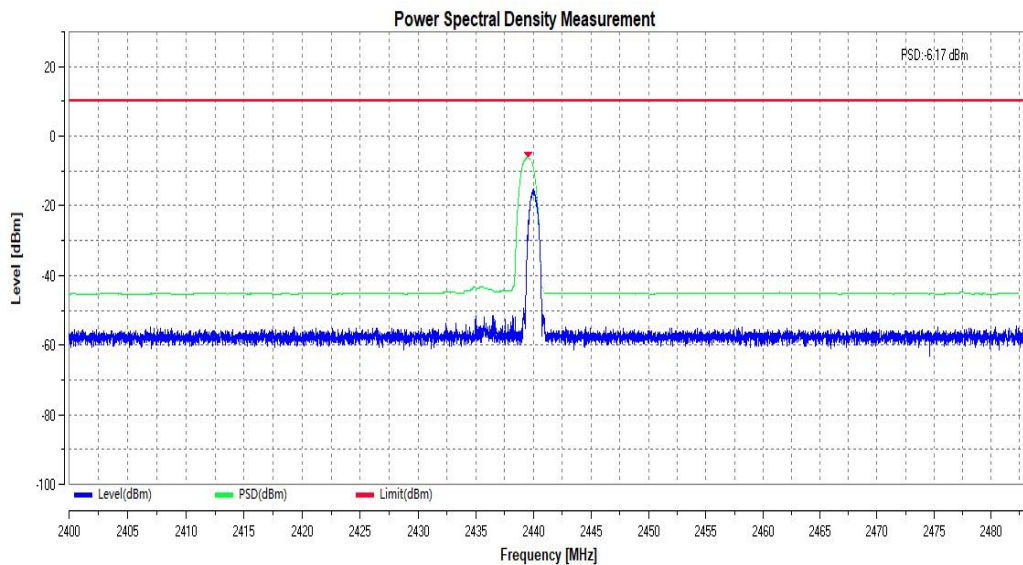


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

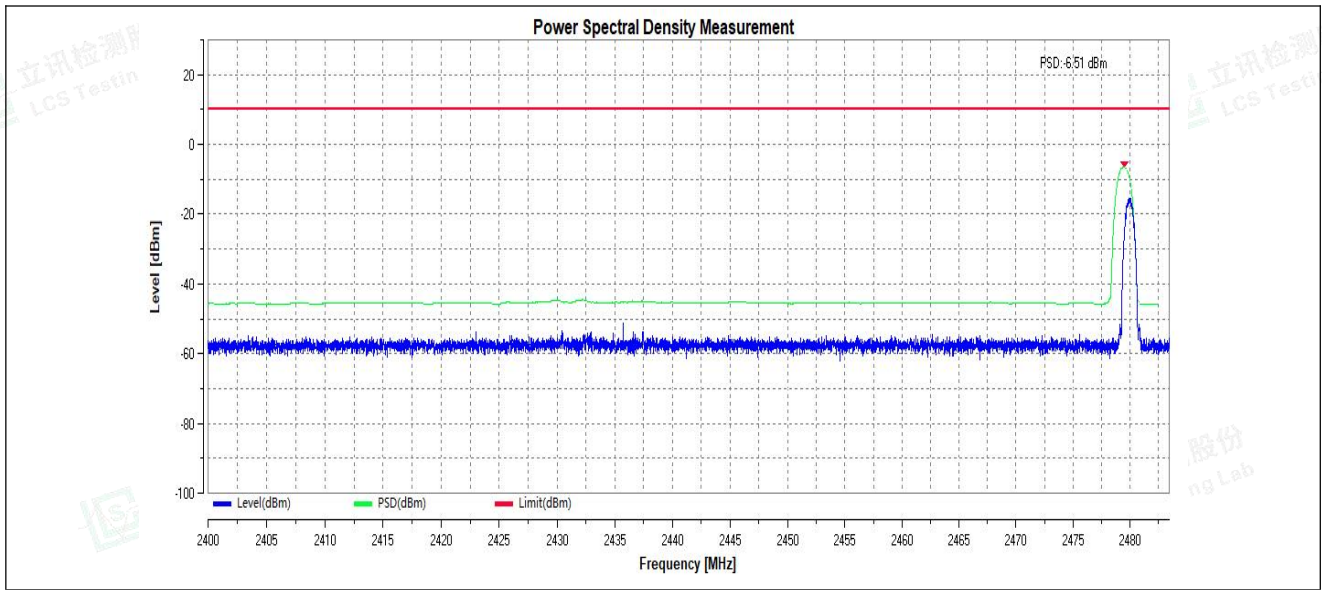


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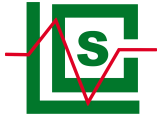


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E.3 Occupied Channel Bandwidth

Test Result

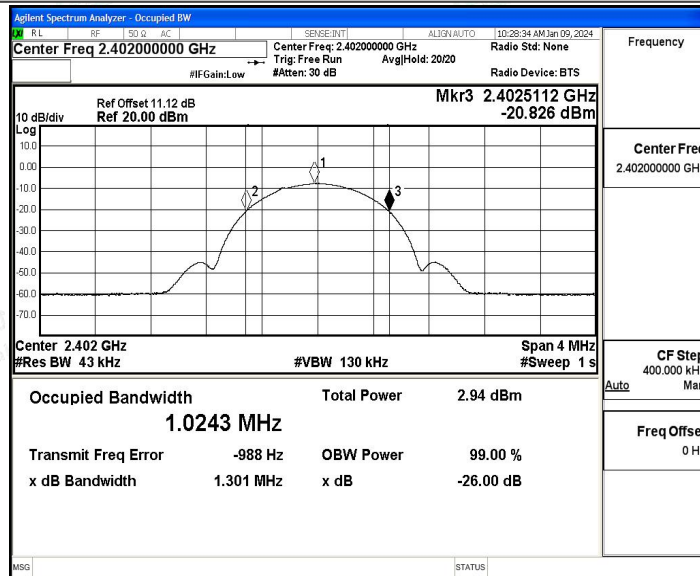
TestMode	Antenna	Freq(MHz)	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0243	2401.4869	2402.5112	2400 to 2483.5	PASS
		2440	1.0257	2439.4851	2440.5108	2400 to 2483.5	PASS
		2480	1.0254	2479.4864	2480.5118	2400 to 2483.5	PASS



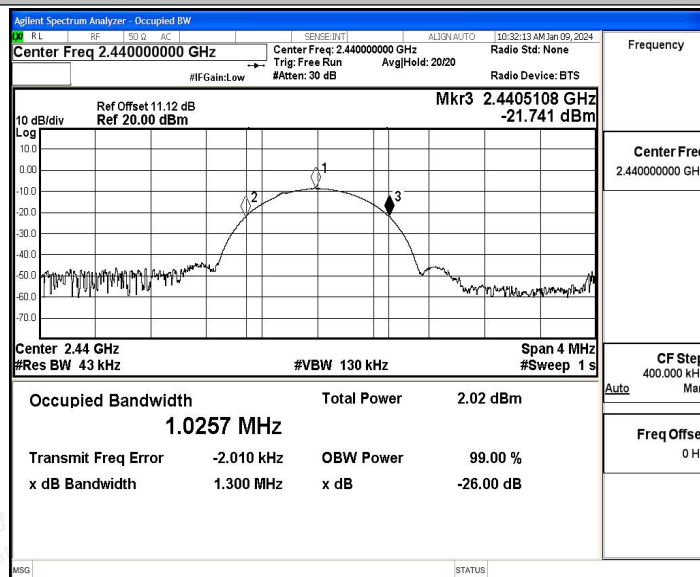


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

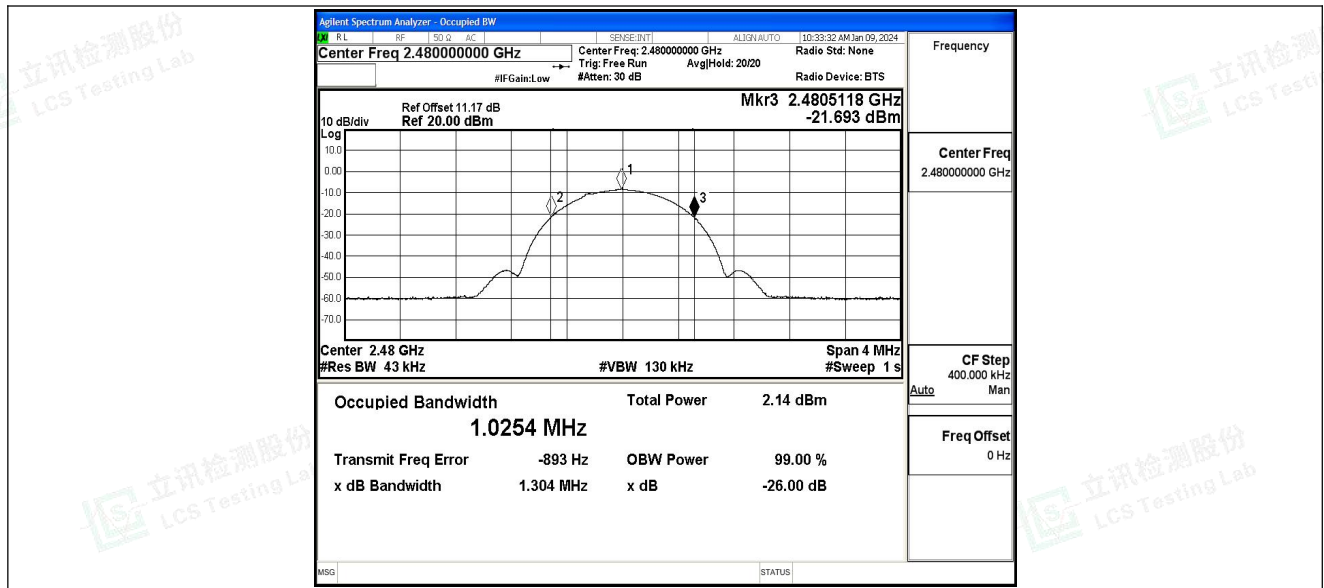
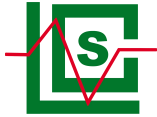


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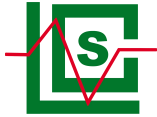


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E.4 Transmitter Unwanted Emissions In The Out-Of-BandDomain

Test Result

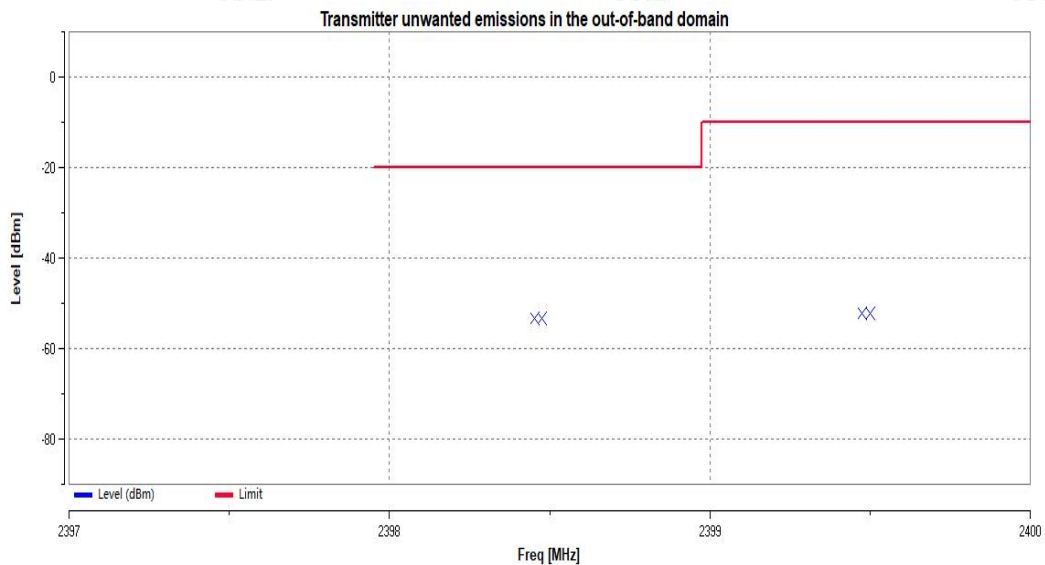
TestMode	Antenna	Freq(MHz)	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2398.4514	-53.20	-20.00	PASS
			2398.4757	-53.21	-20.00	PASS
			2399.4757	-52.36	-10.00	PASS
			2399.5	-52.33	-10.00	PASS
			2484	-54.25	-10.00	PASS
			2484.0243	-54.26	-10.00	PASS
			2485.0243	-54.26	-20.00	PASS
			2485.0486	-54.24	-20.00	PASS
		2480	2398.4492	-54.46	-20.00	PASS
			2398.4746	-54.38	-20.00	PASS
			2399.4746	-54.37	-10.00	PASS
			2399.5	-54.37	-10.00	PASS
			2484	-53.82	-10.00	PASS
			2484.0254	-53.81	-10.00	PASS
			2485.0254	-53.90	-20.00	PASS
			2485.0508	-53.88	-20.00	PASS



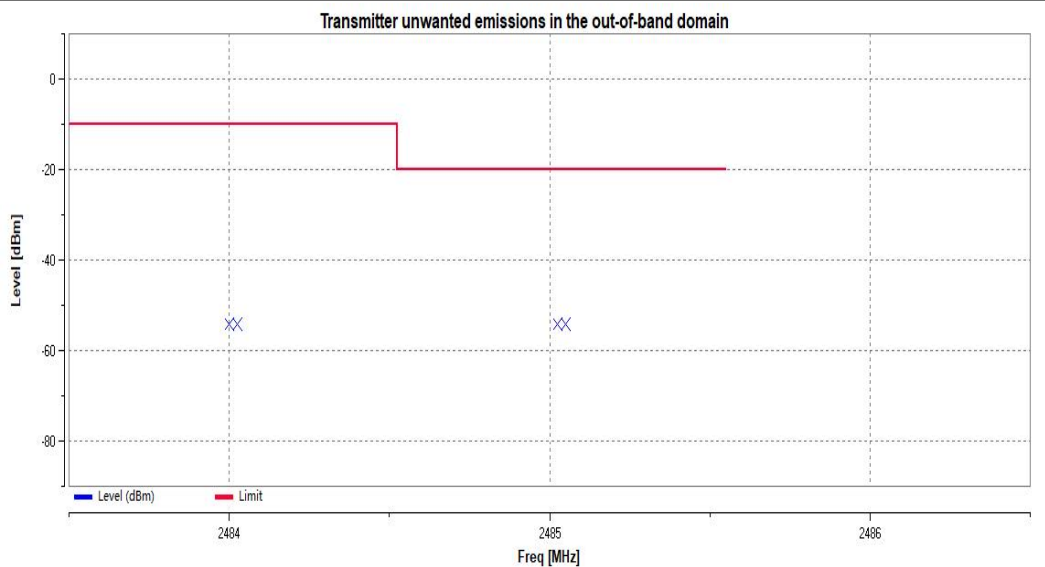


Test Graphs

BLE_1M_Ant1_2402_2400MHz-2BW to 2400MHz



BLE_1M_Ant1_2402_2483.5MHz to 2483.5MHz+2BW



BLE_1M_Ant1_2480_2400MHz-2BW to 2400MHz

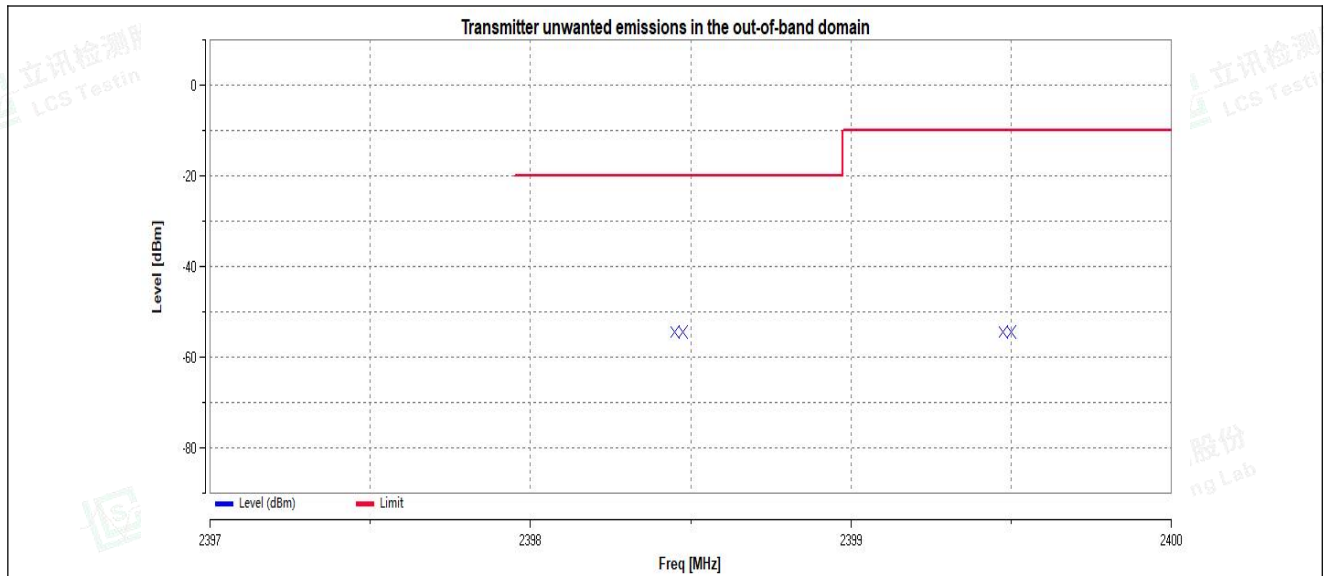


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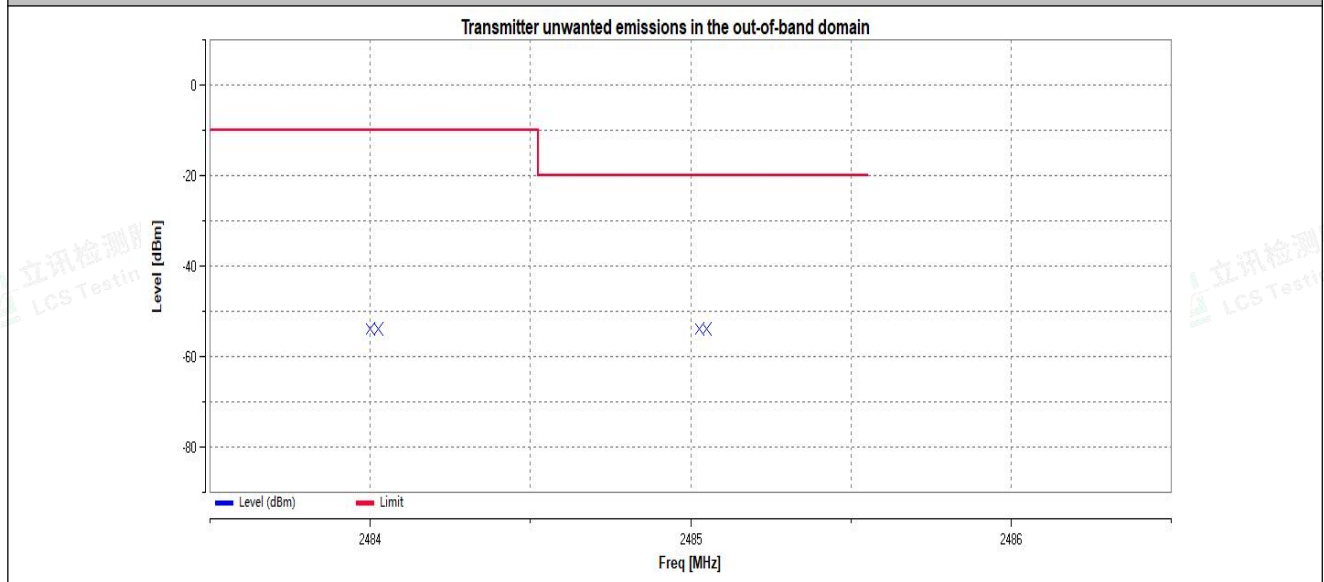
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BLE_1M_Ant1_2480_2483.5MHz to 2483.5MHz+2BW



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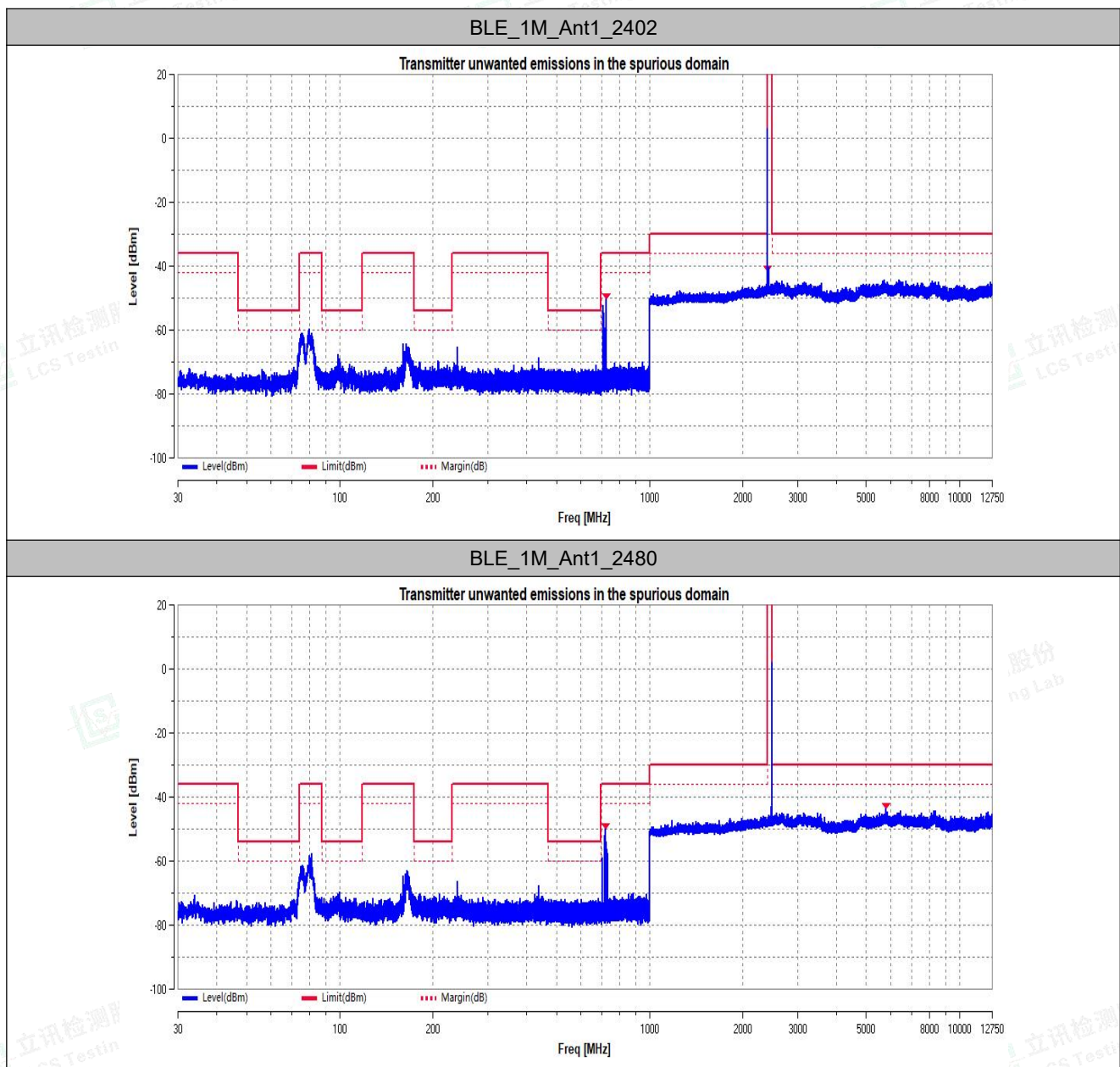


E.5 Transmitter unwanted emissions in the spurious domain

Test Result-Pre-scan

TestMode	Antenna	Freq(MHz)	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	726.26	-50.46	-36	PASS
			2396.73	-41.6	-30	PASS
		2480	720.79	-49.98	-36	PASS
			5780.84	-43.6	-30	PASS

Test Graphs-Pre-scan

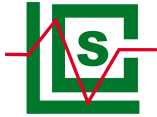


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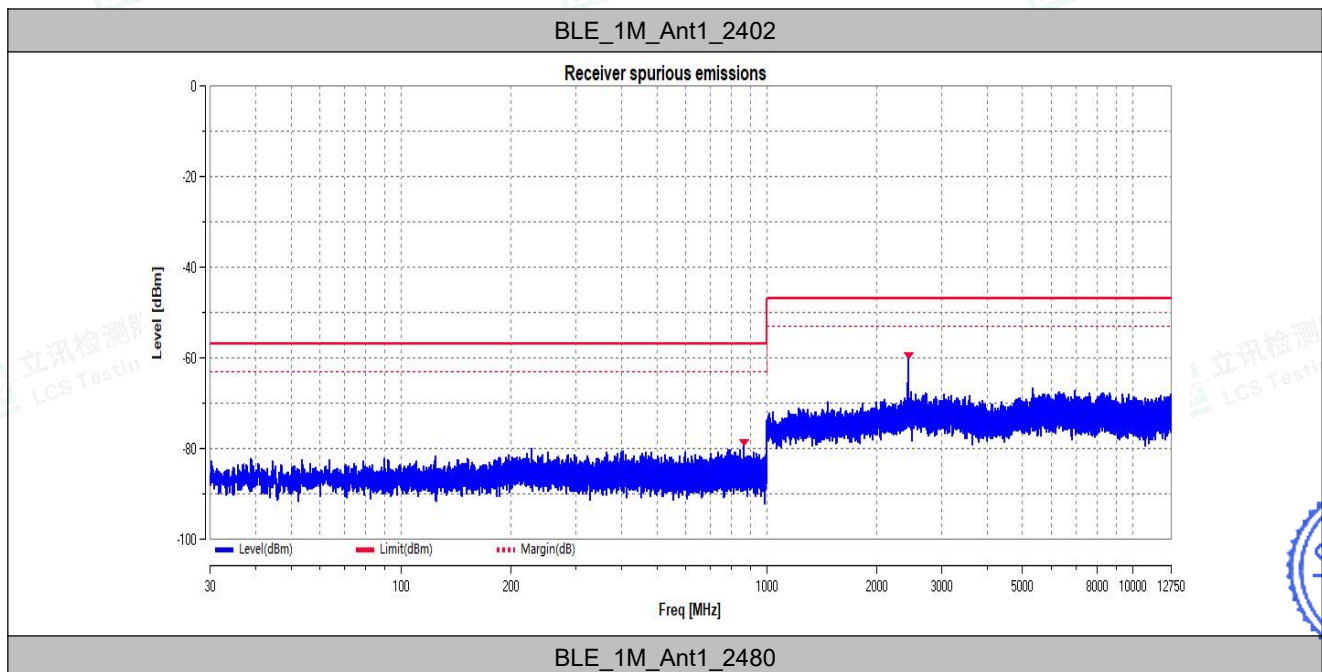


E.6 Receiver spurious emissions

Test Result-Pre-scan

TestMode	Antenna	Freq(MHz)	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	868.03	-79.52	-57.00	PASS
			2440.16	-60.24	-47.00	PASS
		2480	279.97	-79.6	-57.00	PASS
			2438.59	-62.17	-47.00	PASS

Test Graphs-Pre-scan

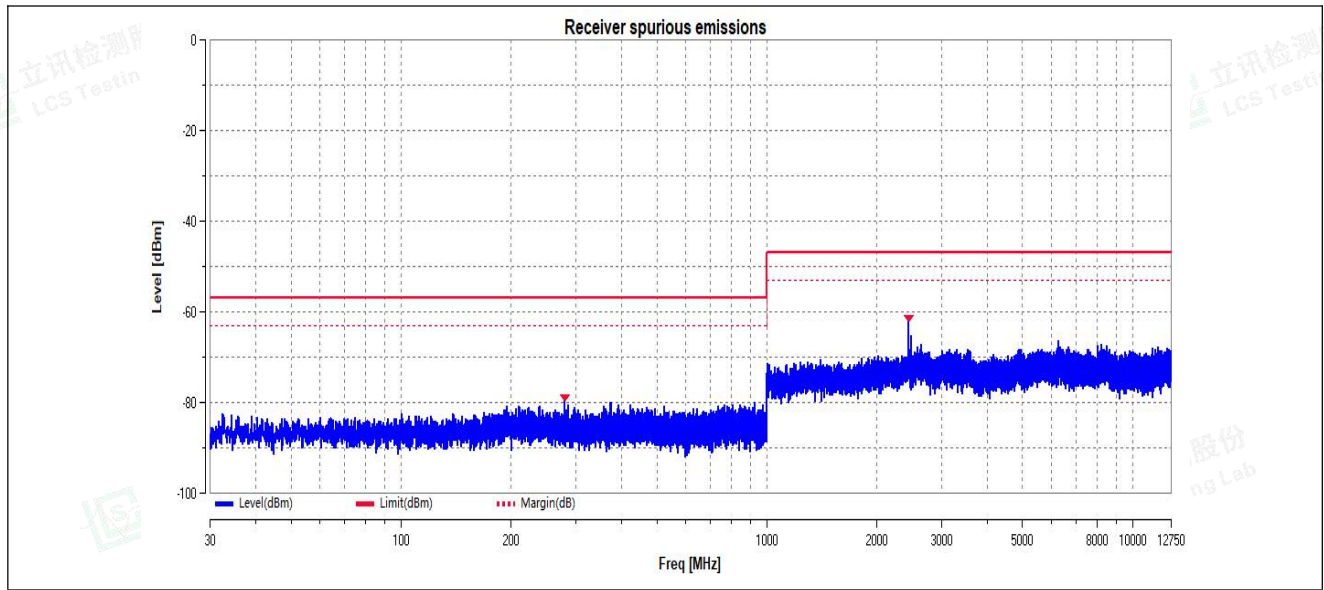


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E.7 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
BLE 1M	2402	-69	2380	-23	≥ -34	CW	5.93	10	Pass
			2504	-20	≥ -34	CW	4.63	10	Pass
			2300	-26	≥ -34	CW	3.84	10	Pass
			2584	-16	≥ -34	CW	3.02	10	Pass
	2480	-69	2380	-23	≥ -34	CW	6.30	10	Pass
			2504	-28	≥ -34	CW	3.83	10	Pass
			2300	-30	≥ -34	CW	4.49	10	Pass
			2584	-32	≥ -34	CW	5.30	10	Pass



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