



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: 4G PHONE

Test Model: MiniVision2

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

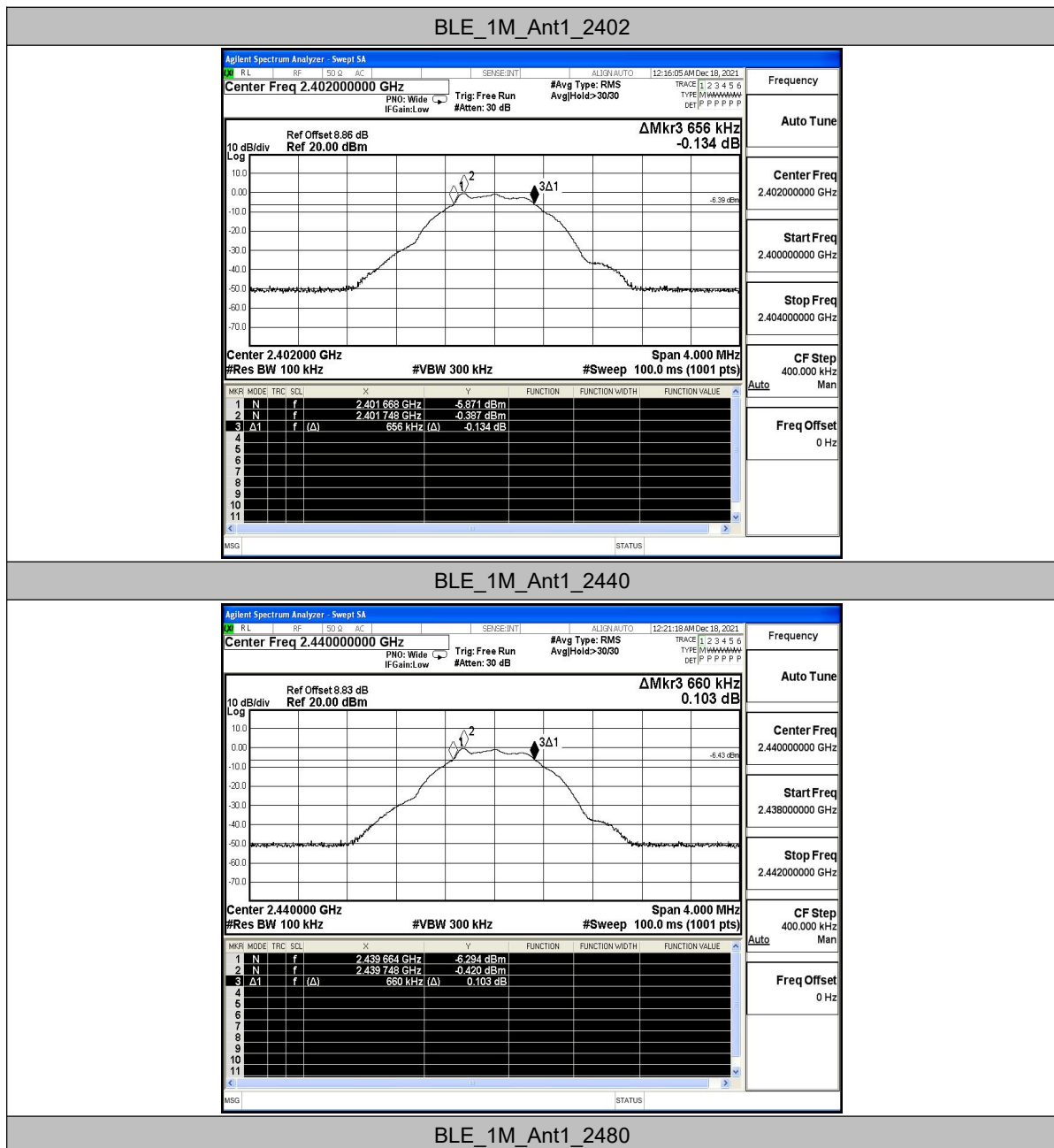


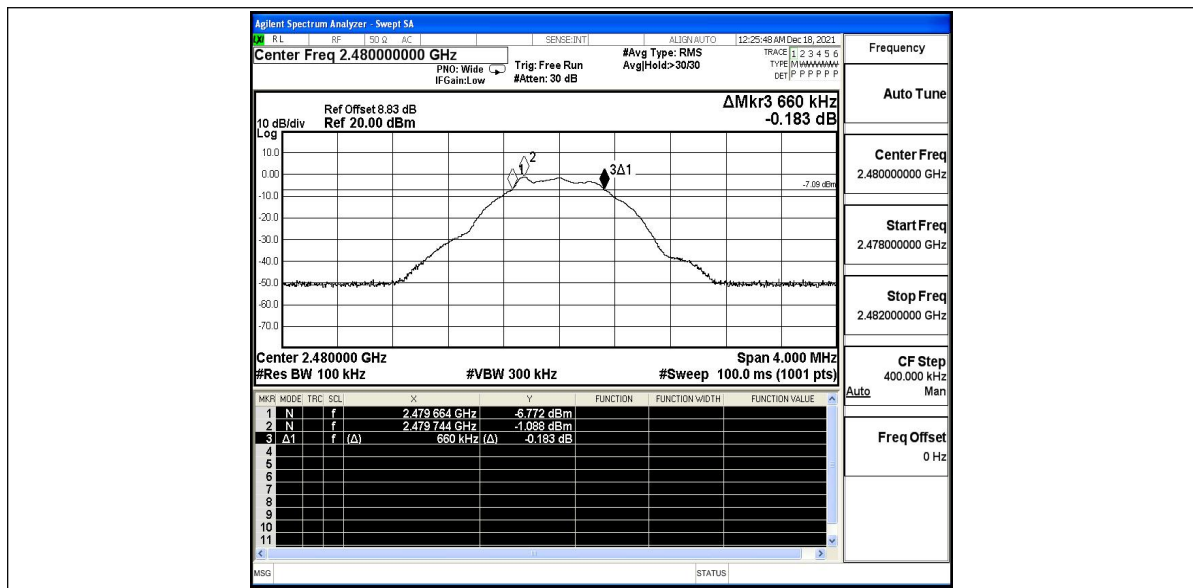
B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.668	2402.324	0.5	PASS
		2440	0.660	2439.664	2440.324	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS

Test Graphs





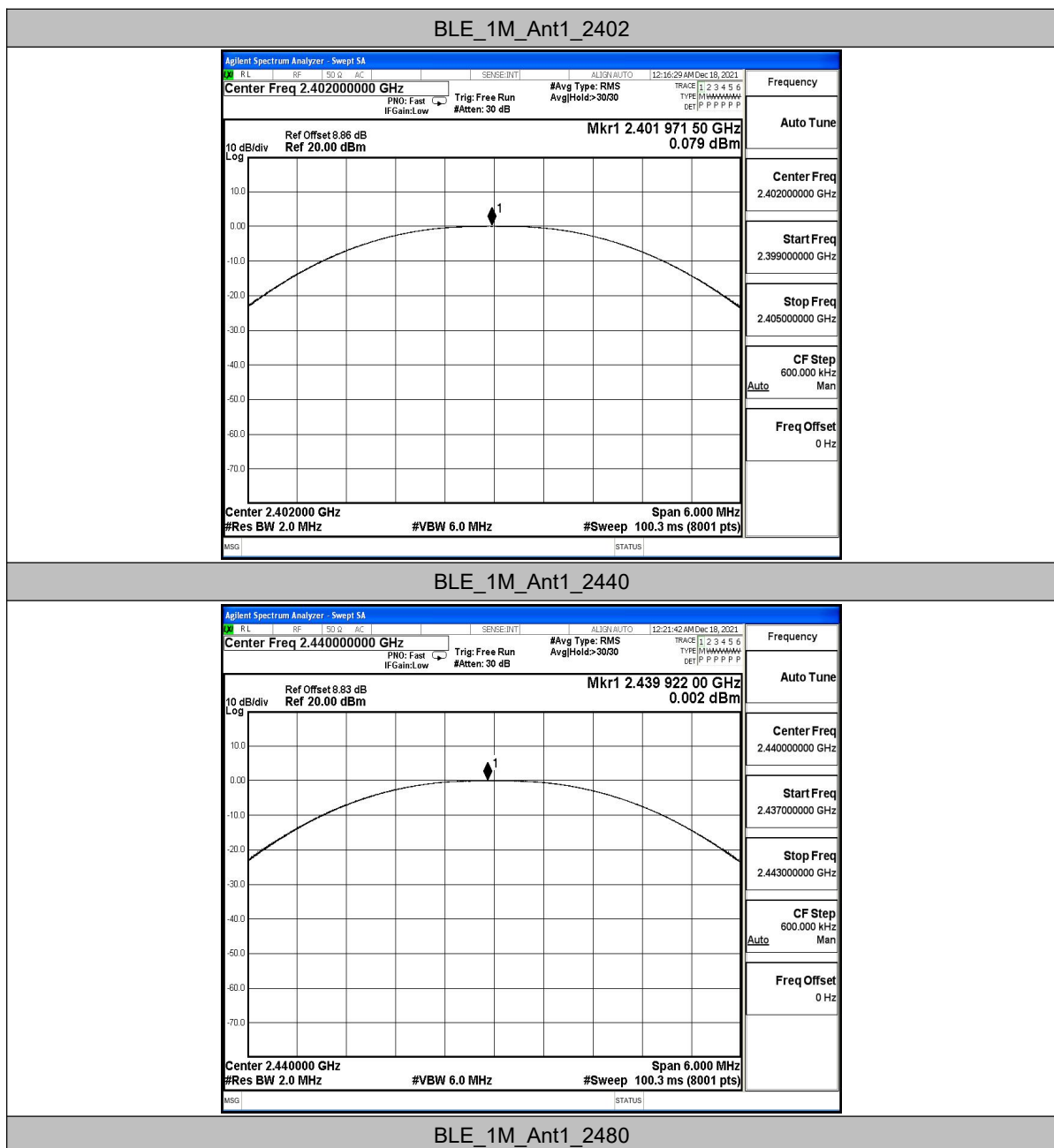


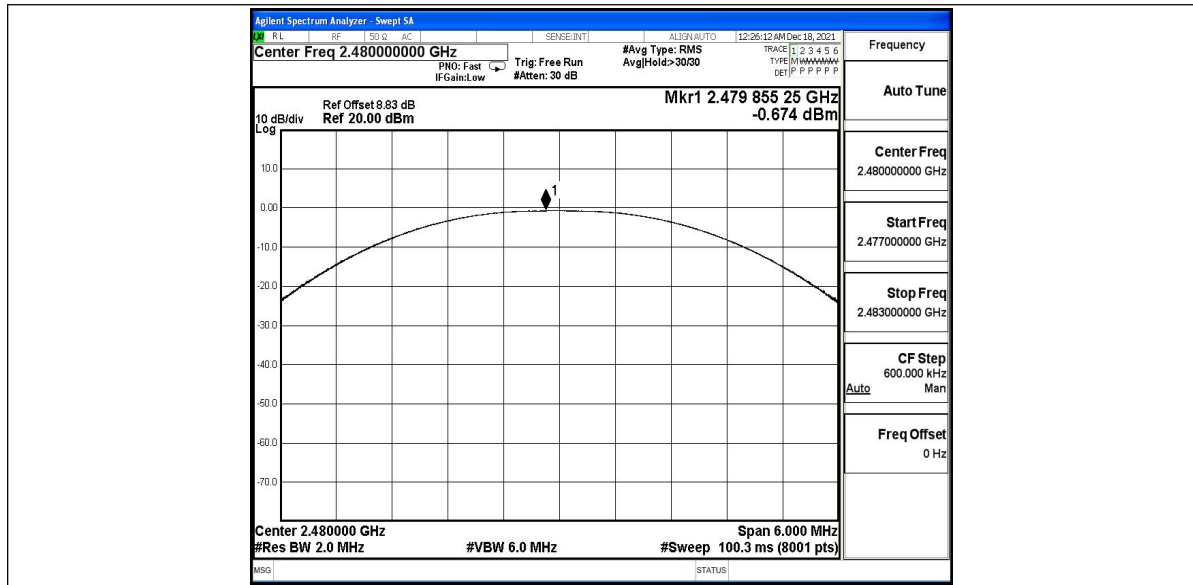
B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.079	≤30	PASS
		2440	0.002	≤30	PASS
		2480	-0.674	≤30	PASS

Test Graphs Peak





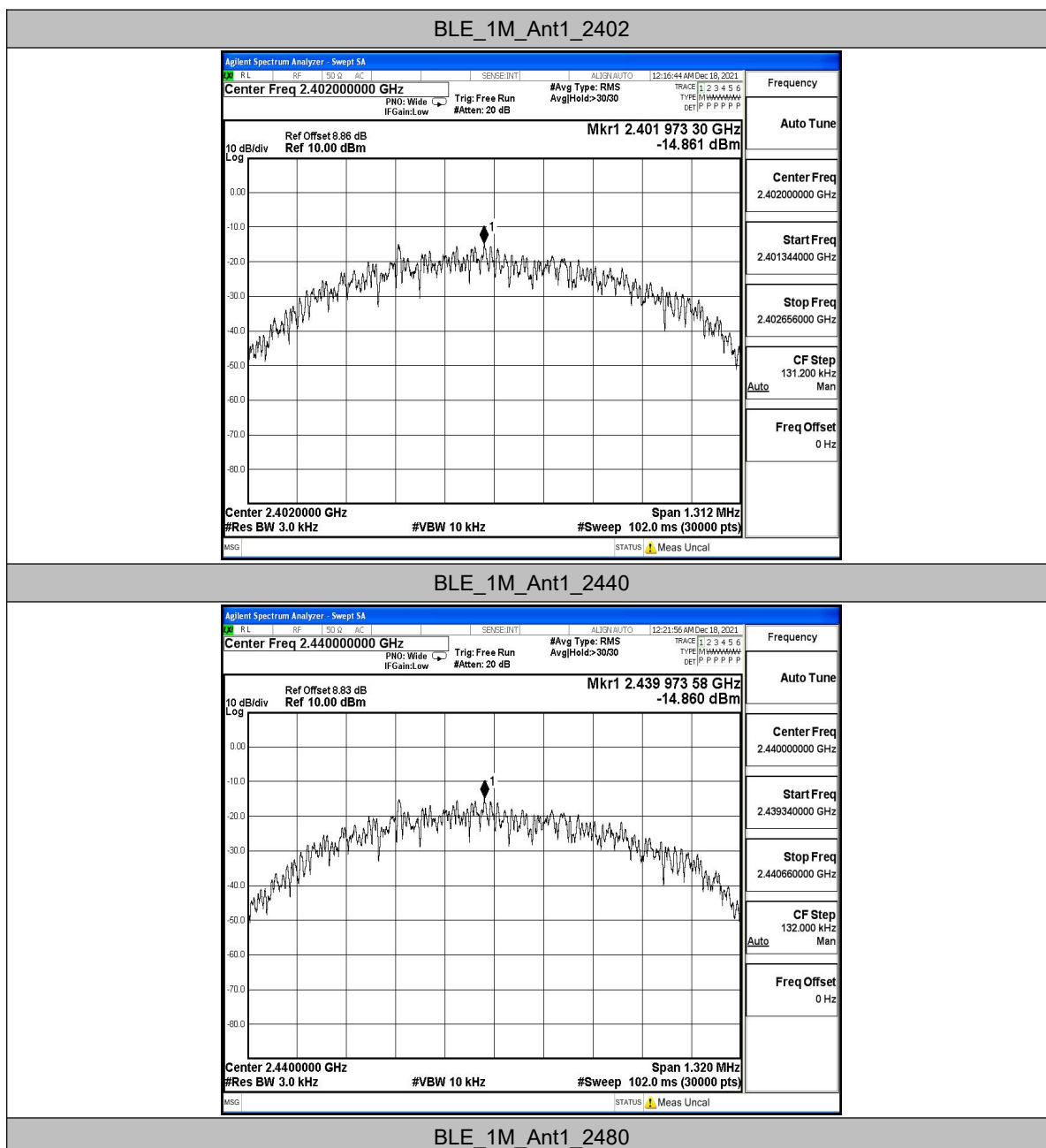


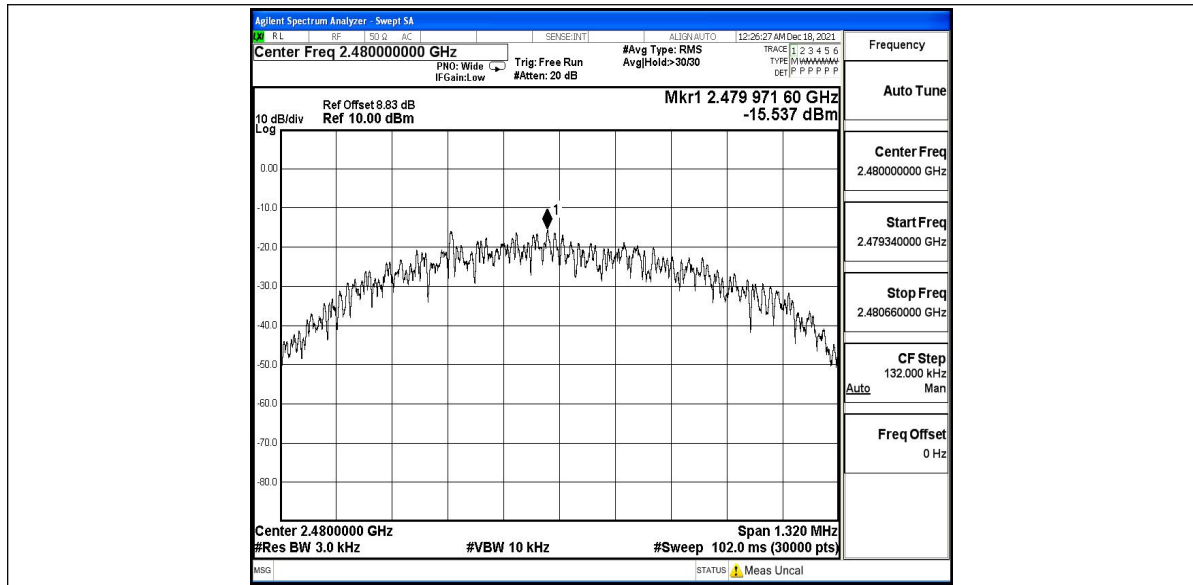
B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.86	≤8.00	PASS
		2440	-14.86	≤8.00	PASS
		2480	-15.54	≤8.00	PASS

Test Graphs





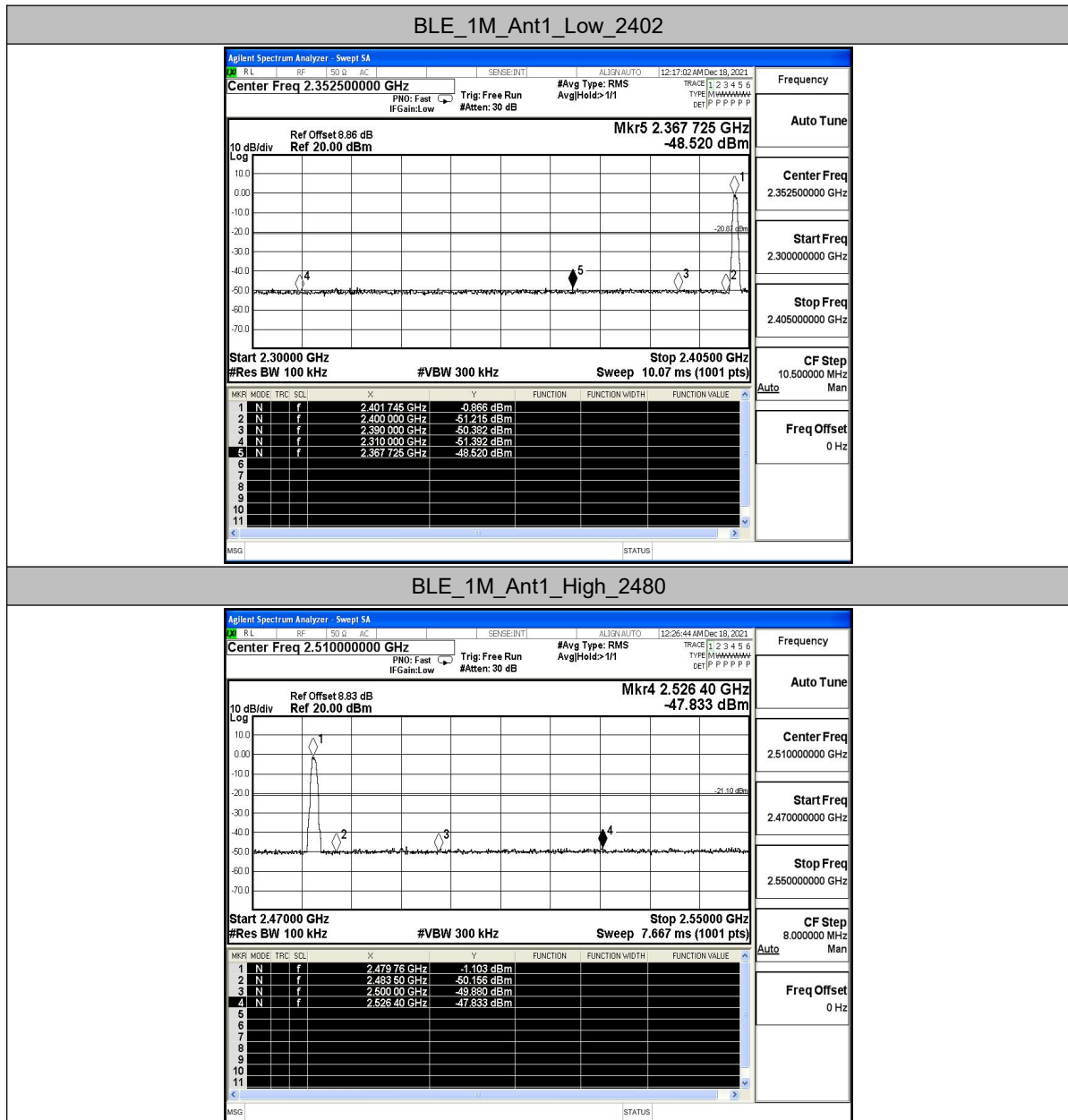


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.87	-48.52	≤-20.87	PASS
		High	2480	-1.10	-47.83	≤-21.1	PASS

Test Graphs





B.5 Conducted Spurious Emission

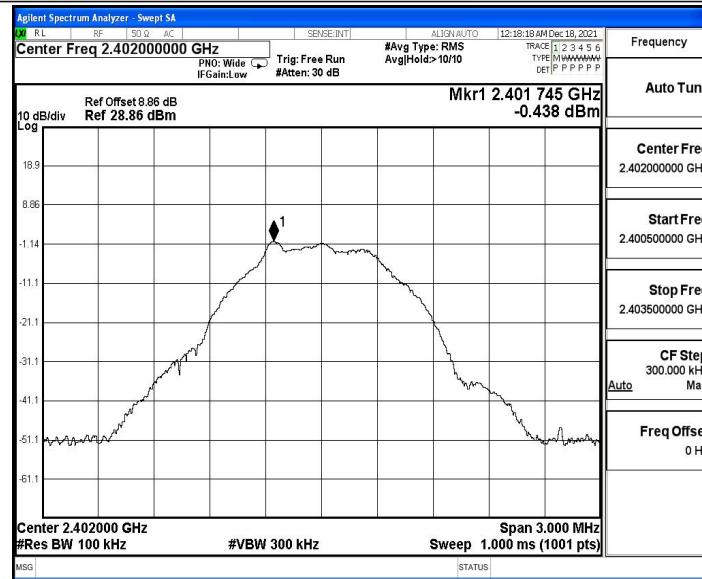
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-61.03	≤ -20.44	PASS
			1000~26500	-0.44	-45.93	≤ -20.44	PASS
		2440	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-60.09	≤ -20.45	PASS
			1000~26500	-0.45	-45.87	≤ -20.45	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-60.49	≤ -21.17	PASS
			1000~26500	-1.17	-45.65	≤ -21.17	PASS

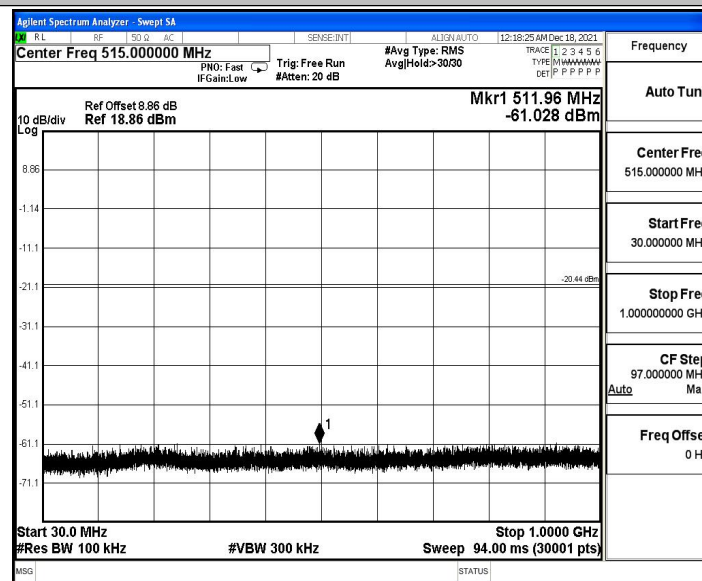


Test Graphs

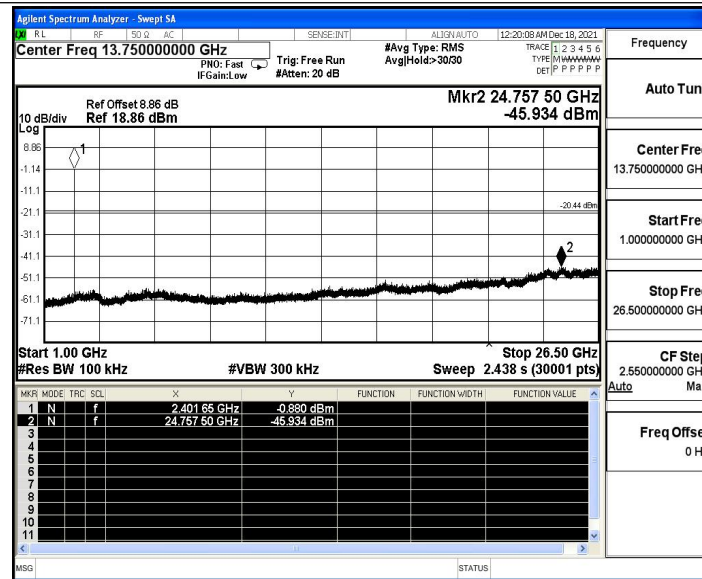
BLE_1M_Ant1_2402_0~Reference



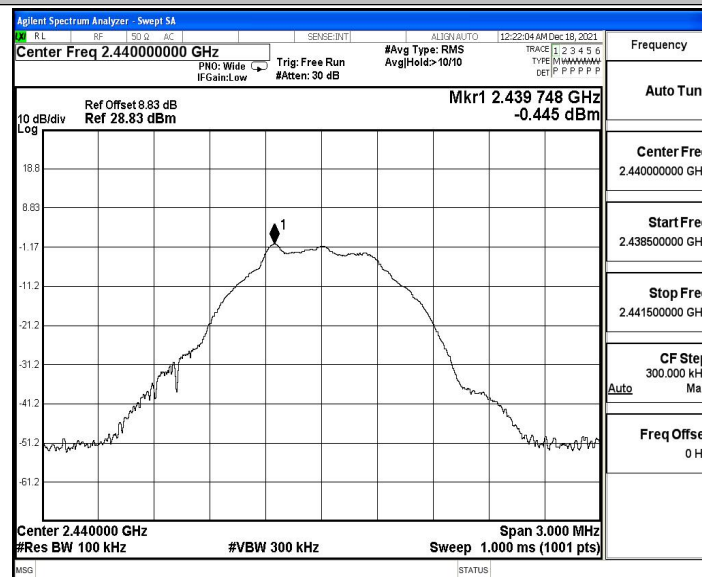
BLE_1M_Ant1_2402_30~1000



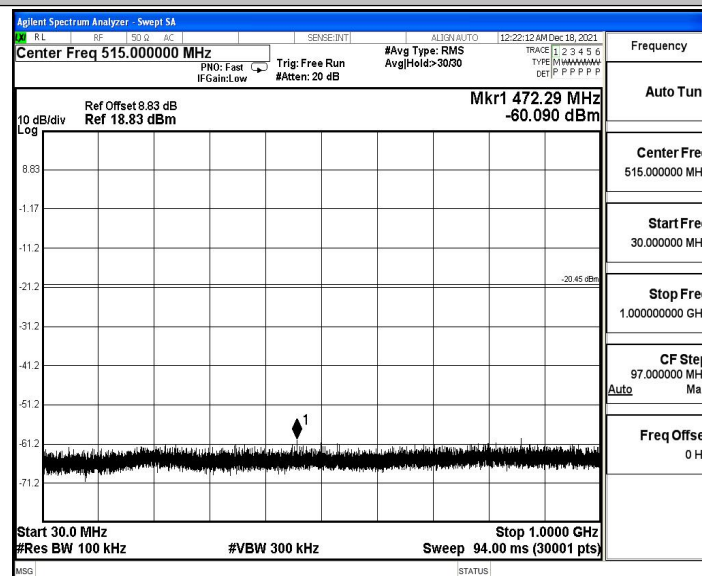
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

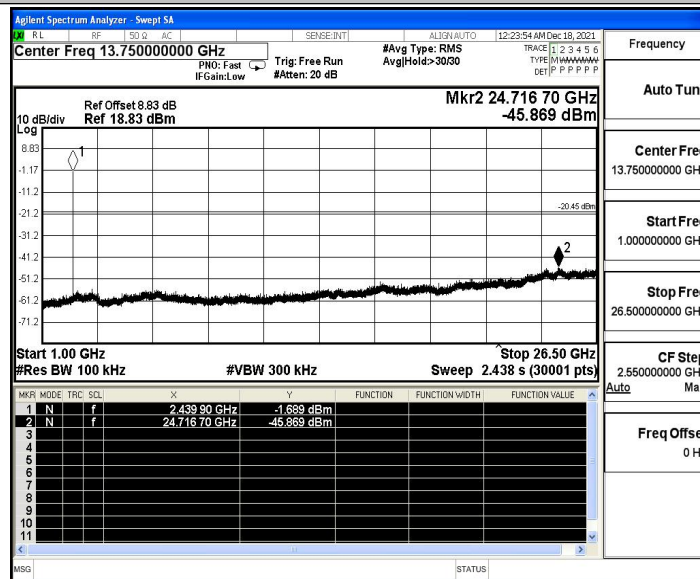


BLE_1M_Ant1_2440_30~1000

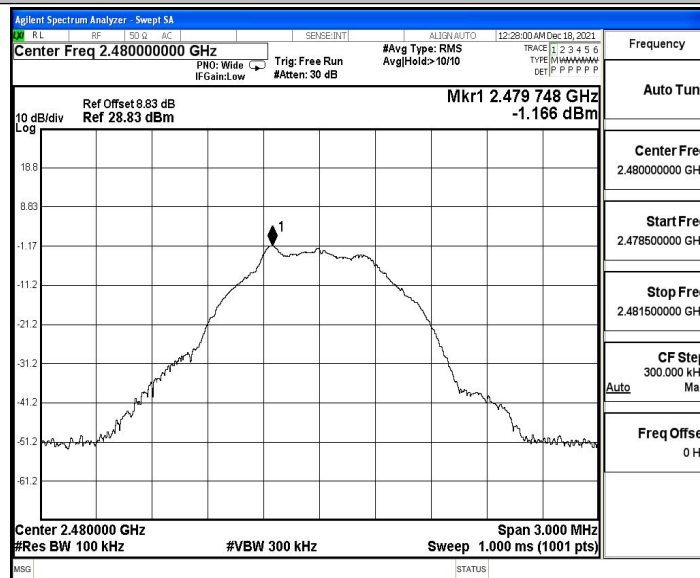




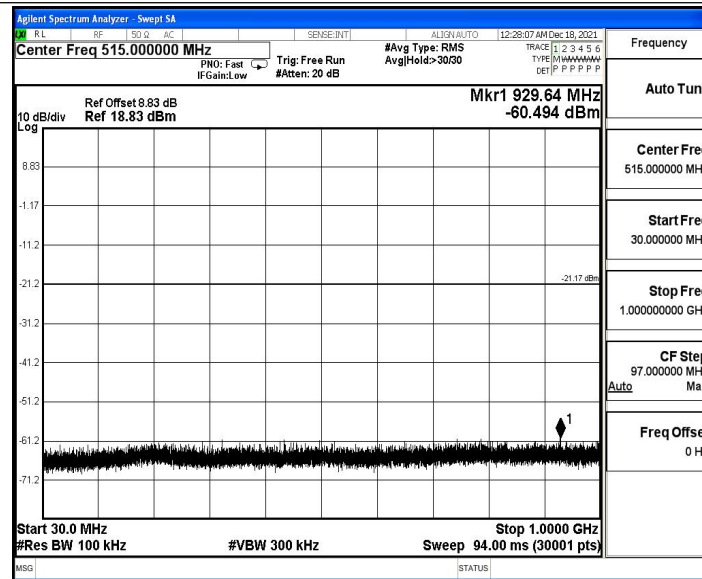
BLE_1M_Ant1_2440_1000~26500



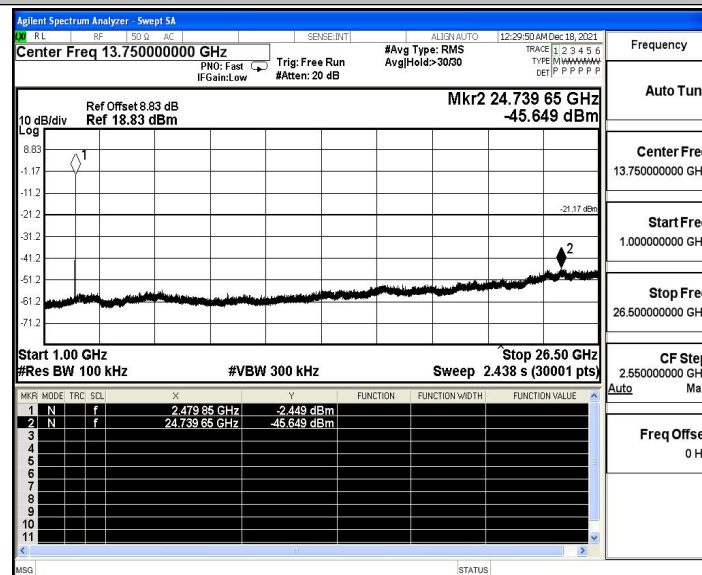
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



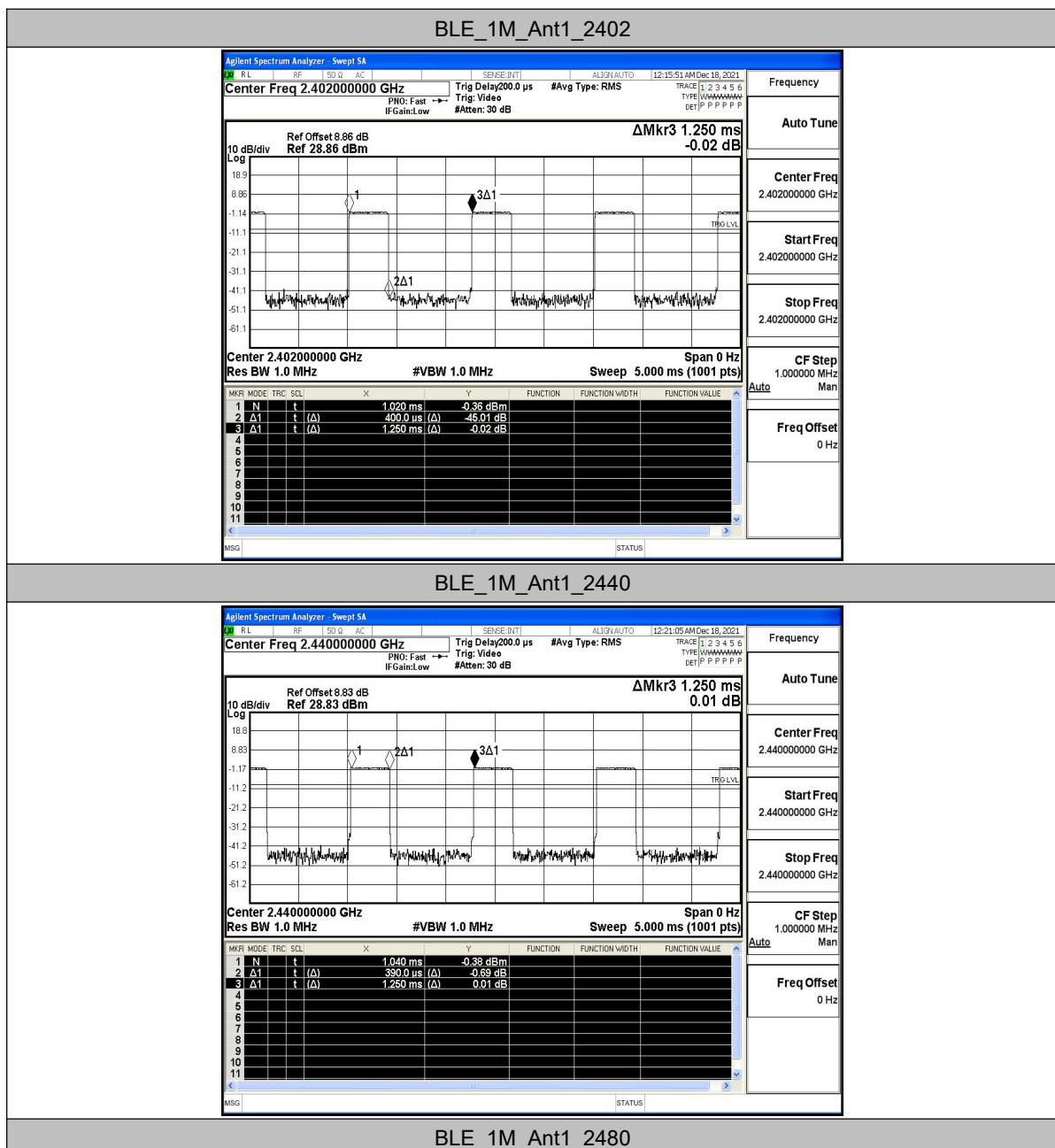


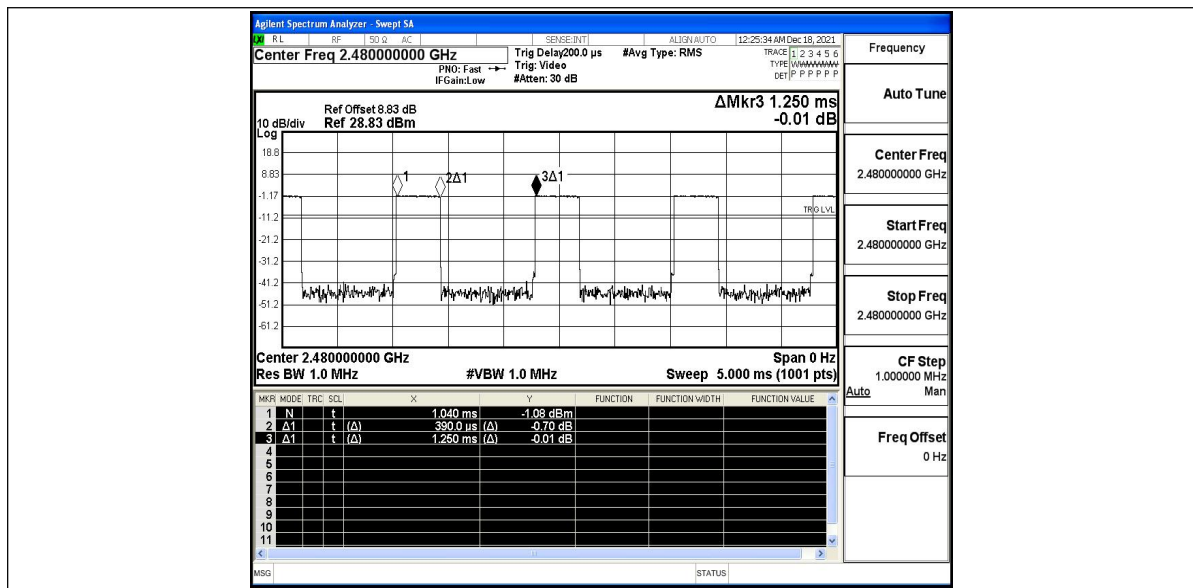
B.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	1.25	32.00	4.95
		2440	0.39	1.25	31.20	5.06
		2480	0.39	1.25	31.20	5.06

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2372.765	-46.31	≤-41.20	48.89	≤54	PASS
				AV	2390.000	-46.72	≤-41.20	48.48	≤54	PASS
				Peak	2310.000	-37.94	≤-21.20	57.26	≤74	PASS
				Peak	2371.190	-36.27	≤-21.20	58.93	≤74	PASS
				Peak	2390.000	-37.9	≤-21.20	57.30	≤74	PASS
		High	2480	AV	2483.500	-46.33	≤-41.20	48.87	≤54	PASS
				AV	2499.840	-45.96	≤-41.20	49.24	≤54	PASS
				AV	2500.000	-46.12	≤-41.20	49.08	≤54	PASS
				Peak	2483.500	-35.1	≤-21.20	60.10	≤74	PASS
				Peak	2484.720	-33.1	≤-21.20	62.10	≤74	PASS
				Peak	2500.000	-37.51	≤-21.20	57.69	≤74	PASS

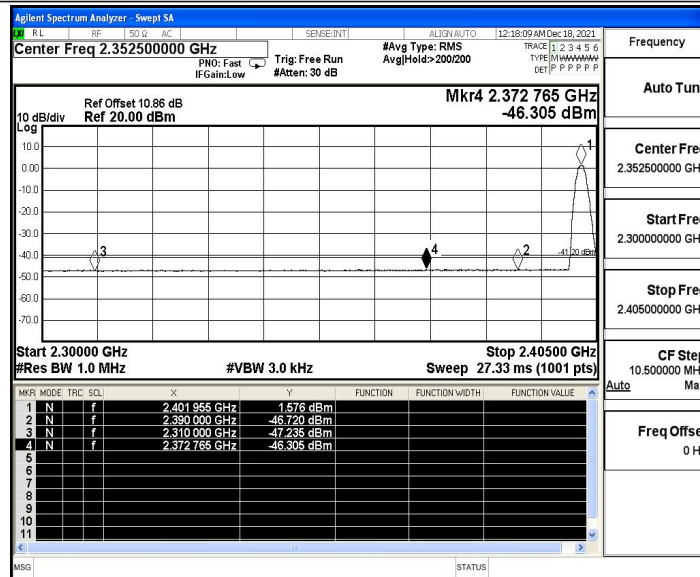
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

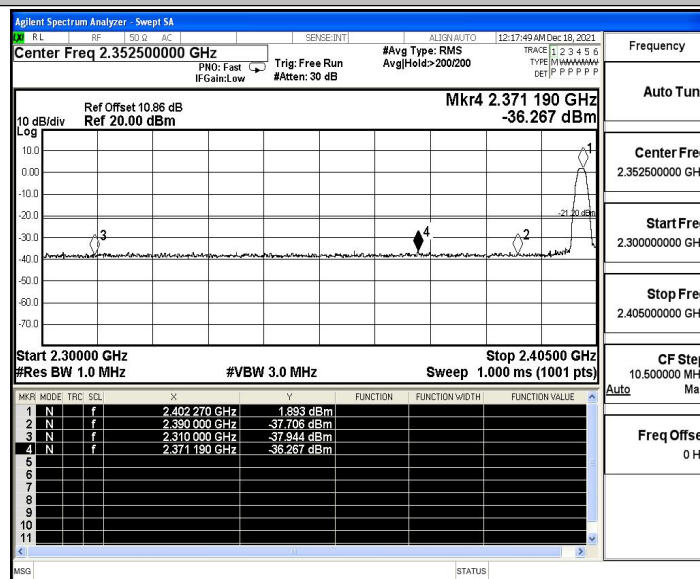


Test Graphs

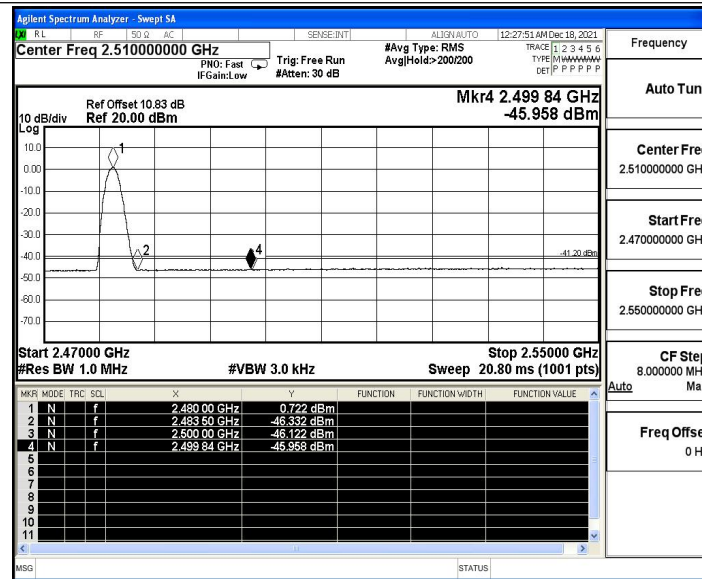
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

