

Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: smart phone

Trade Mark: YEZZ

Test Model: MAX 3 PLUS

FCC ID: 2APW4MAX3P

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

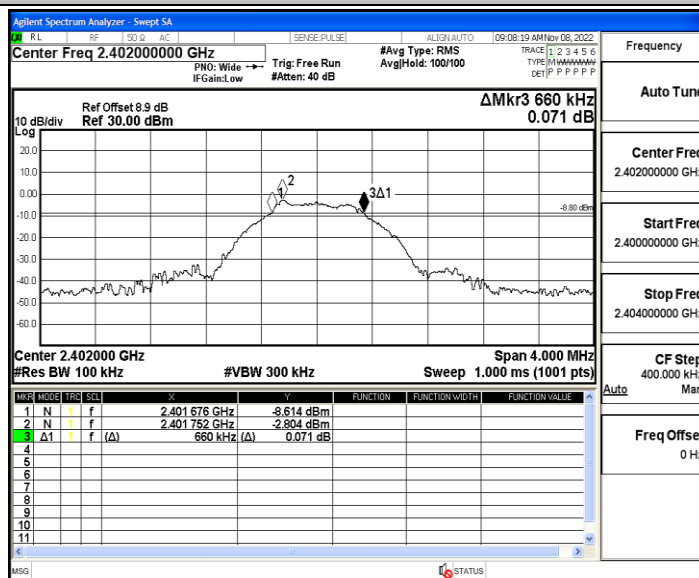
Appendix A: DTS Bandwidth

Test Result

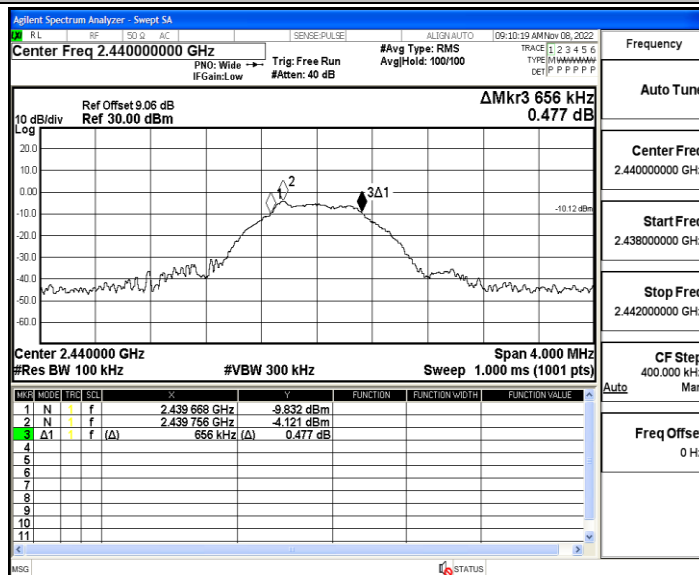
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.676	2402.336	0.5	PASS
		2440	0.656	2439.668	2440.324	0.5	PASS
		2480	0.712	2479.636	2480.348	0.5	PASS

Test Graphs

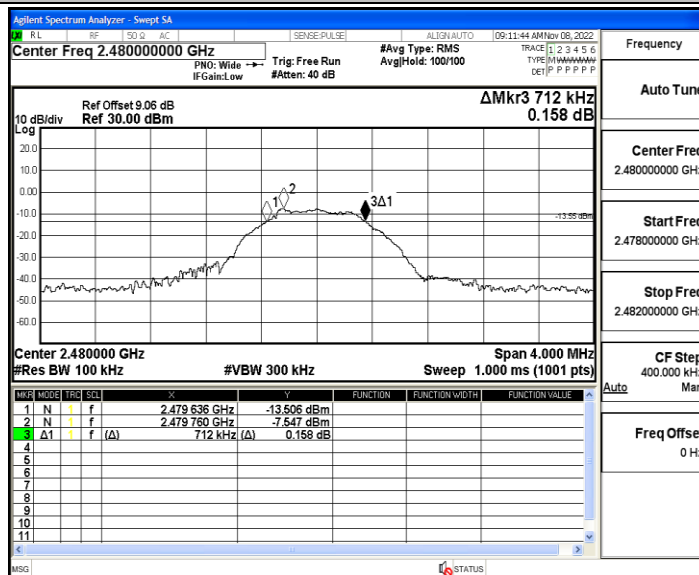
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



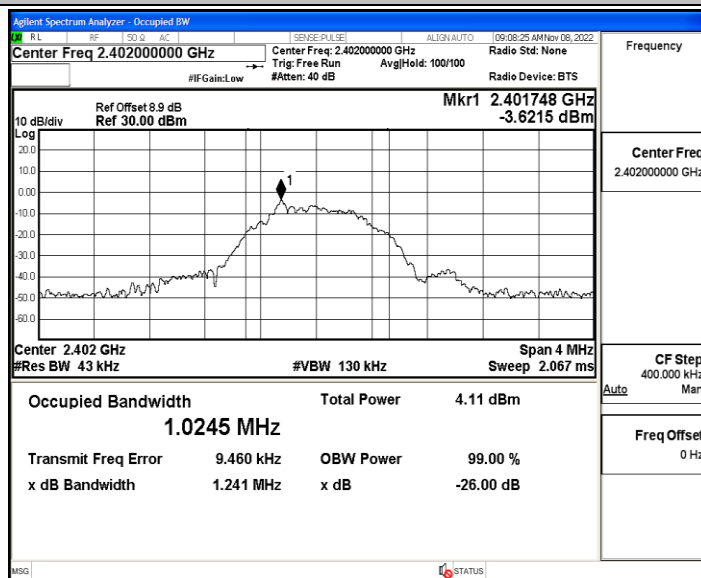
Appendix B: Occupied Channel Bandwidth

Test Result

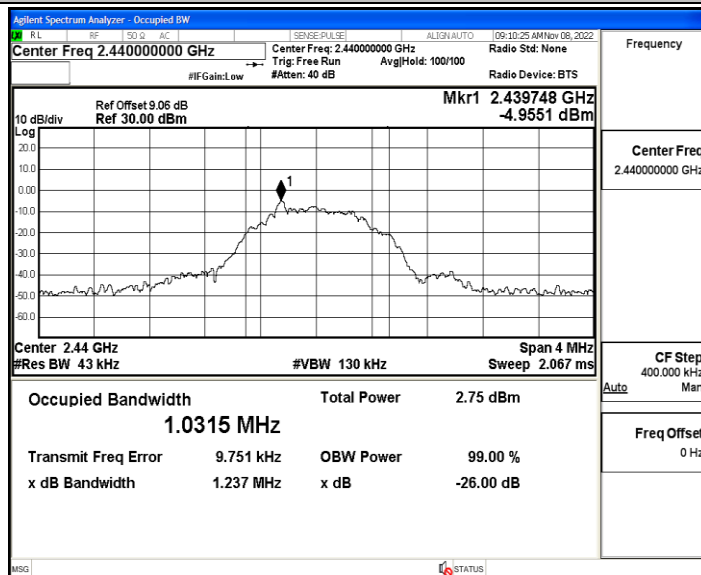
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0245	2401.4972	2402.5217	---	---
		2440	1.0315	2439.4940	2440.5255	---	---
		2480	1.0335	2479.4885	2480.5220	---	---

Test Graphs

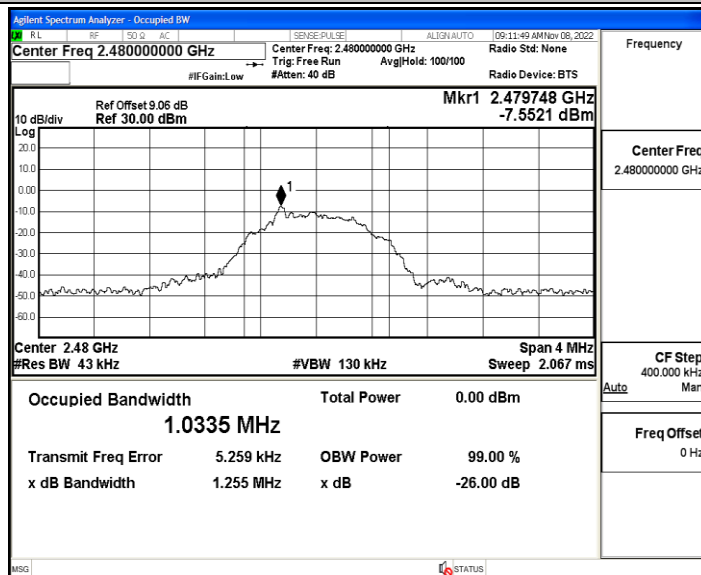
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



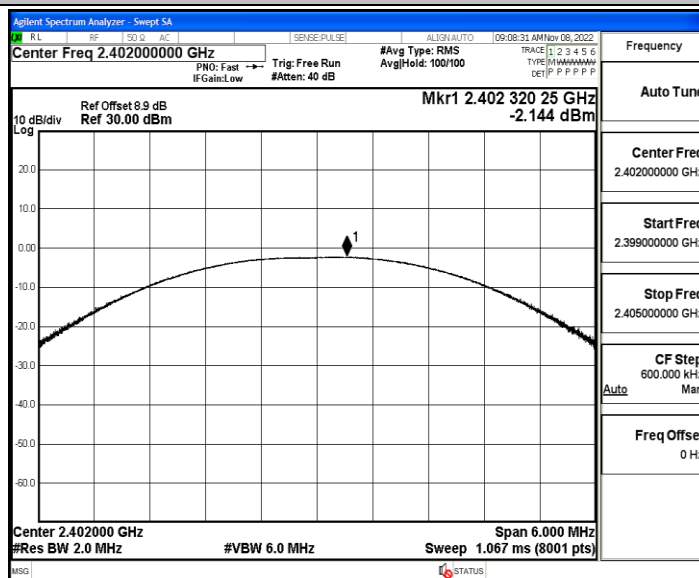
Appendix C: Maximum Peak conducted output power

Test Result

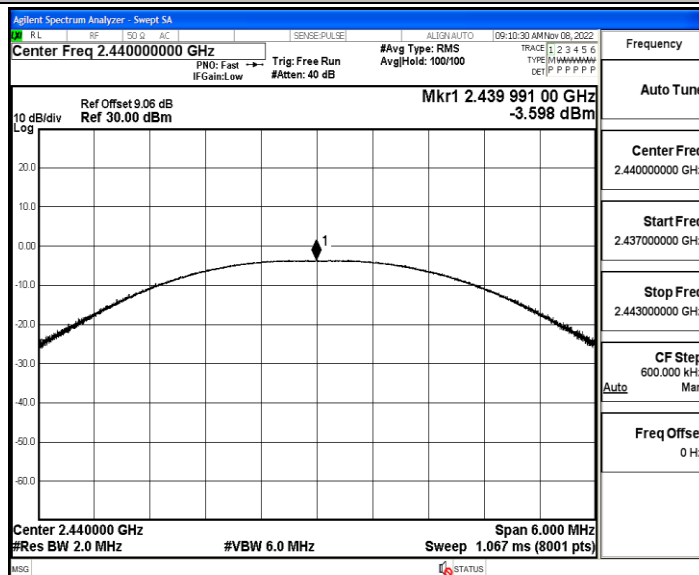
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.14	≤30	PASS
		2440	-3.6	≤30	PASS
		2480	-5.99	≤30	PASS

Test Graphs

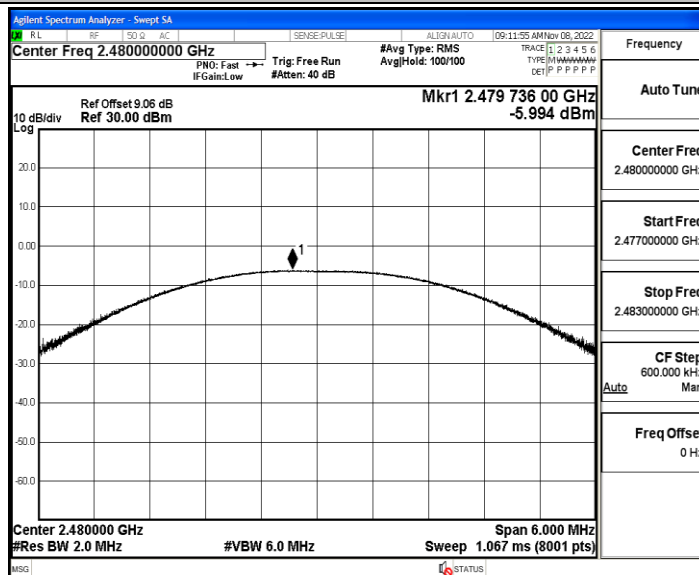
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



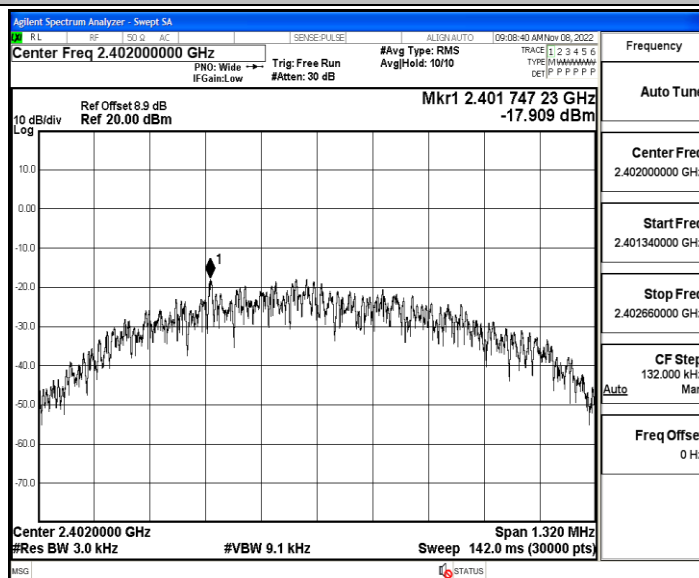
Appendix D: Maximum power spectral density

Test Result

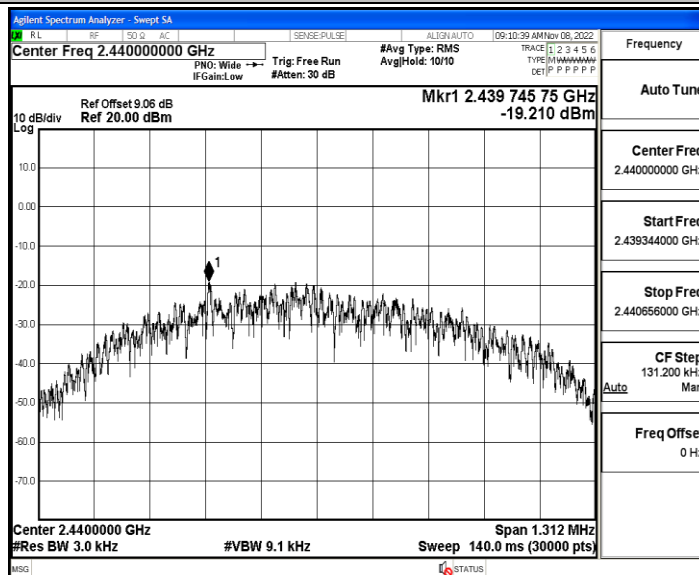
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.91	≤8.00	PASS
		2440	-19.21	≤8.00	PASS
		2480	-21.83	≤8.00	PASS

Test Graphs

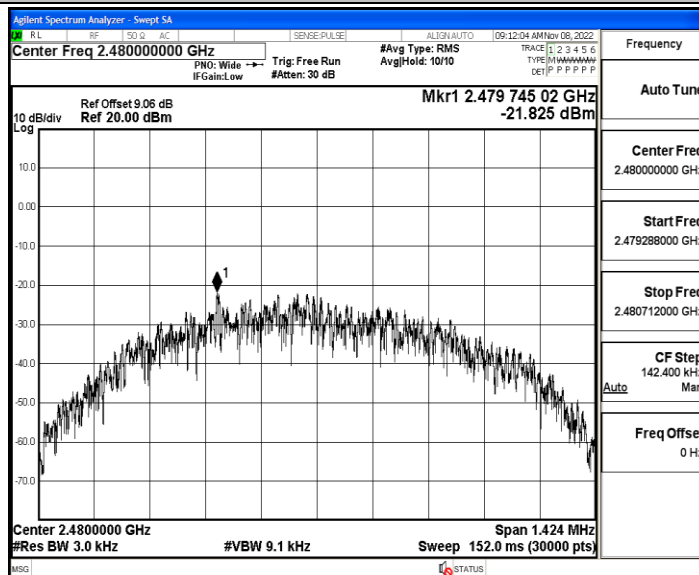
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



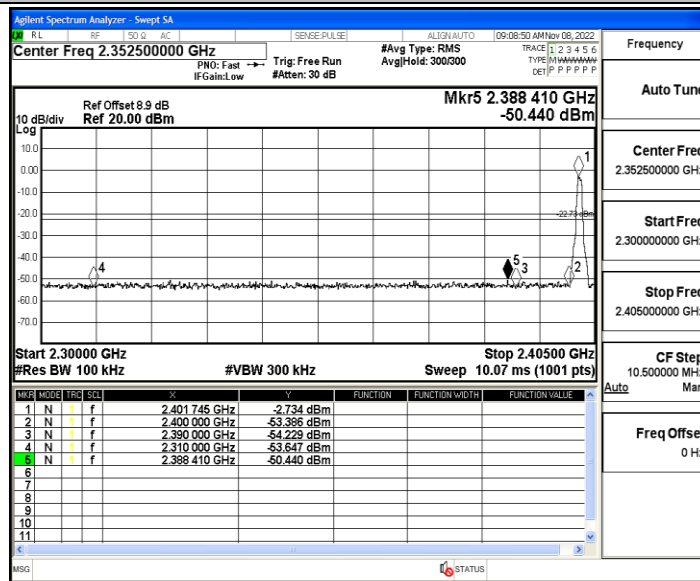
Appendix E: Band edge measurements

Test Result

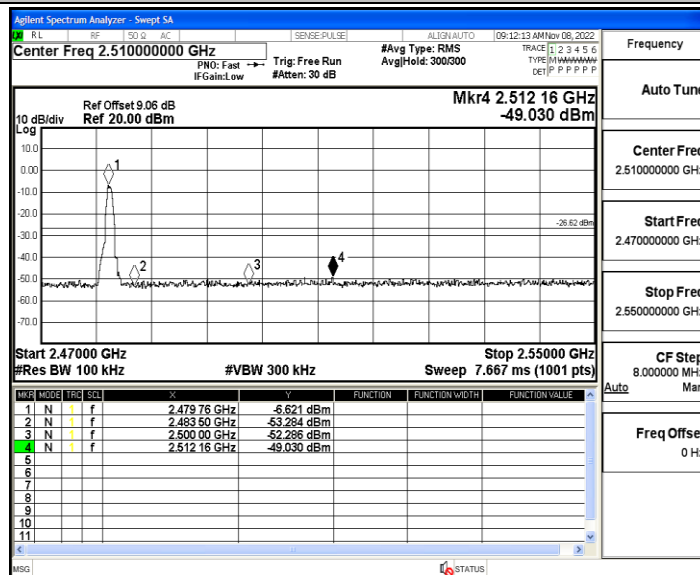
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.73	-50.44	≤-22.73	PASS
		High	2480	-6.62	-49.03	≤-26.62	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



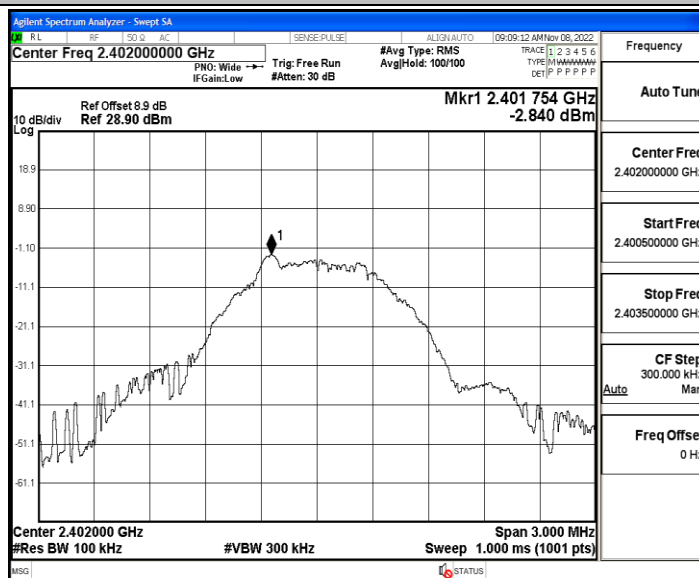
Appendix F: Conducted Spurious Emission

Test Result

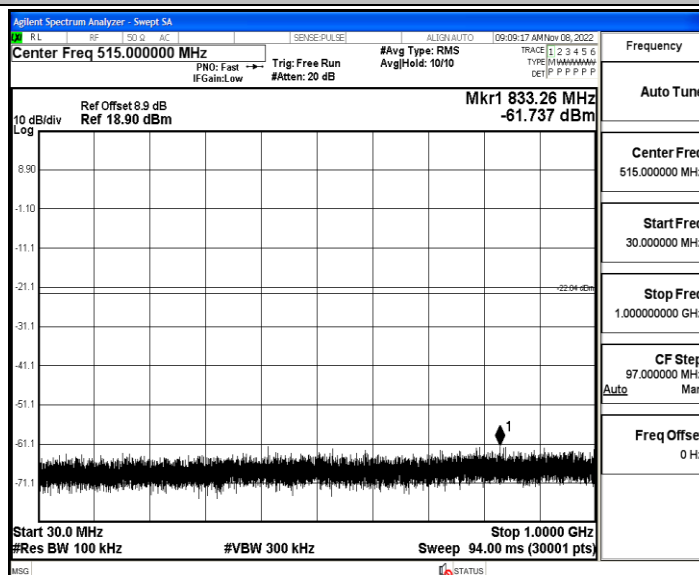
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-61.74	≤-22.84	PASS
			1000~26500	-2.84	-50.45	≤-22.84	PASS
		2440	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-61.32	≤-24.08	PASS
			1000~26500	-4.08	-50.69	≤-24.08	PASS
		2480	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-61.44	≤-26.61	PASS
			1000~26500	-6.61	-51.82	≤-26.61	PASS

Test Graphs

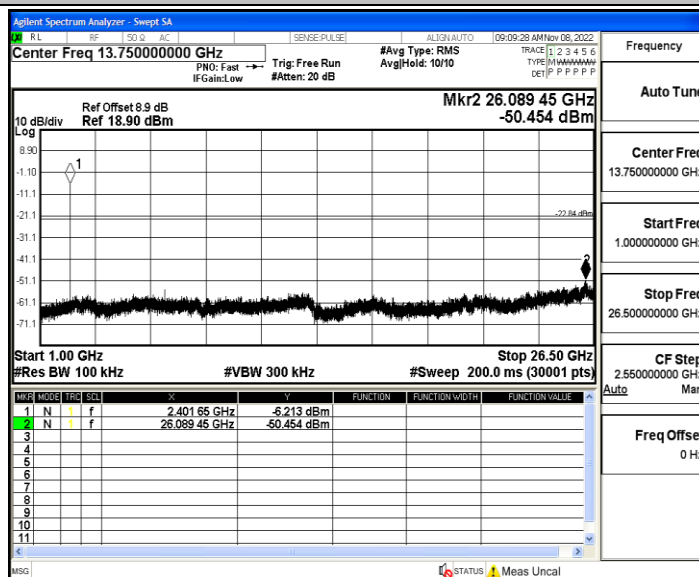
BLE_1M_Ant1_2402_0~Reference



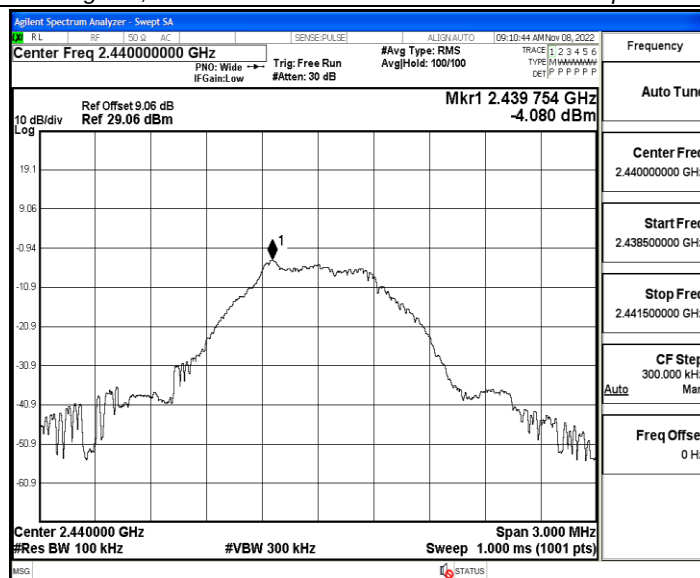
BLE_1M_Ant1_2402_30~1000



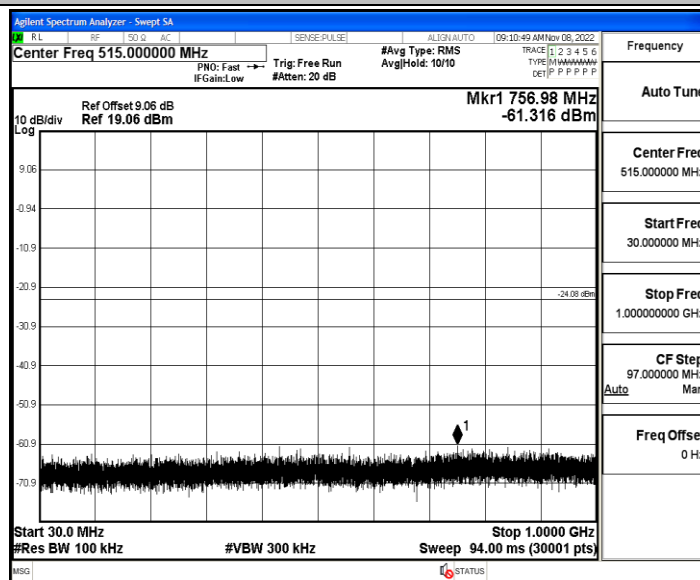
BLE_1M_Ant1_2402_1000~26500



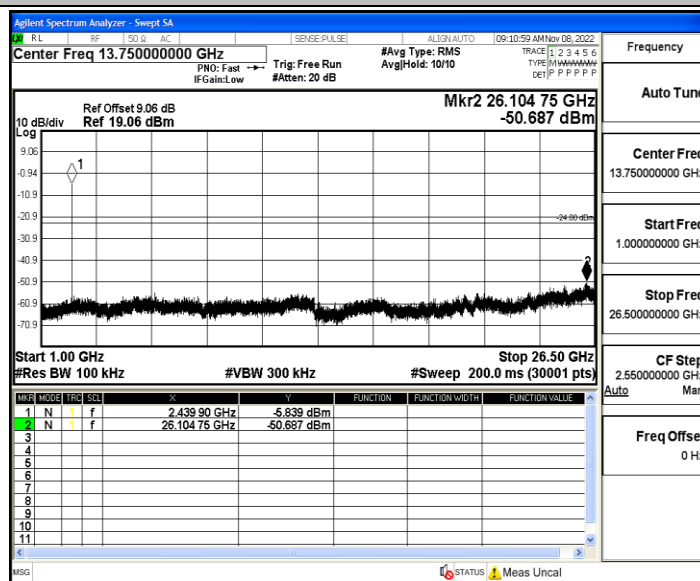
BLE_1M_Ant1_2440_0~Reference



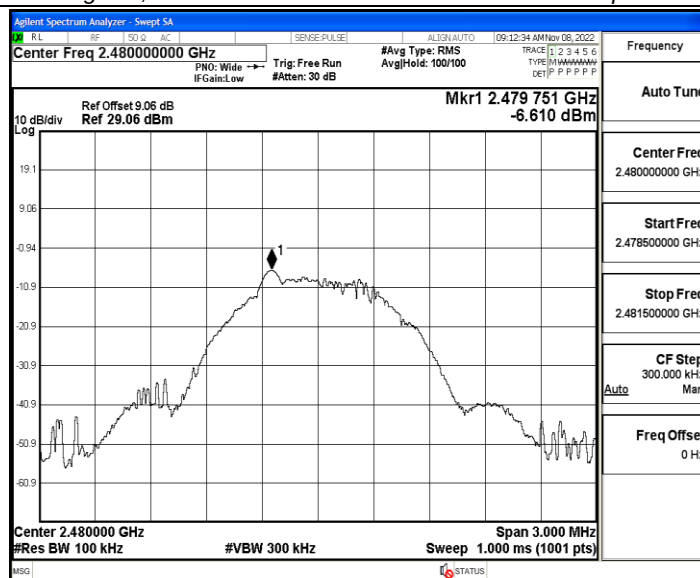
BLE_1M_Ant1_2440_30~1000



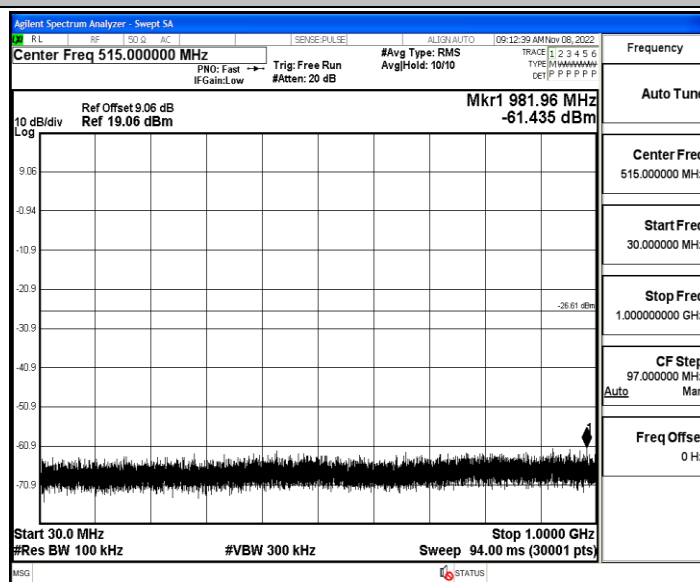
BLE_1M_Ant1_2440_1000~26500



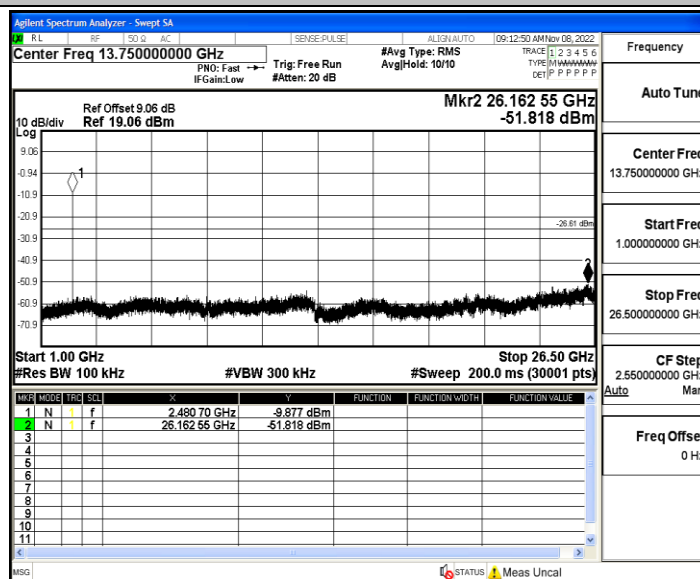
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



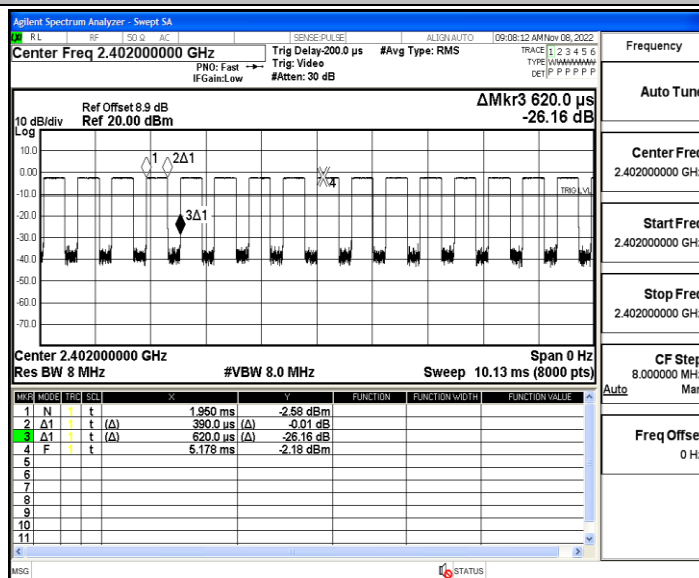
Appendix G: Duty Cycle

Test Result

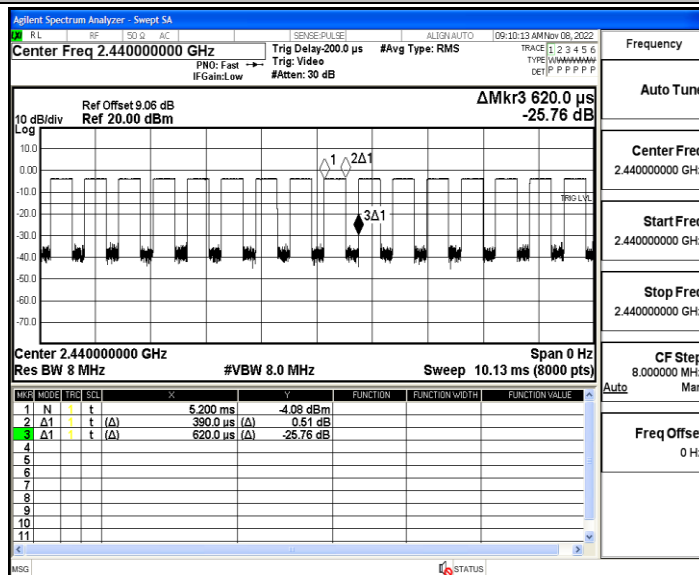
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.62	62.90	2.56

Test Graphs

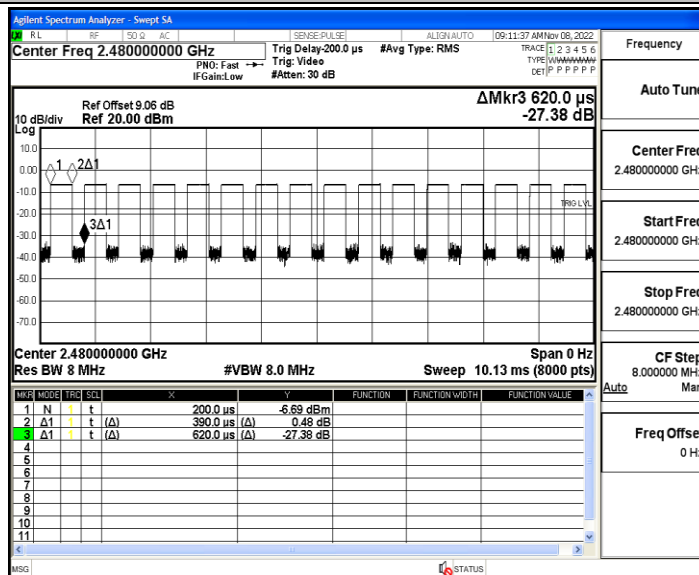
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

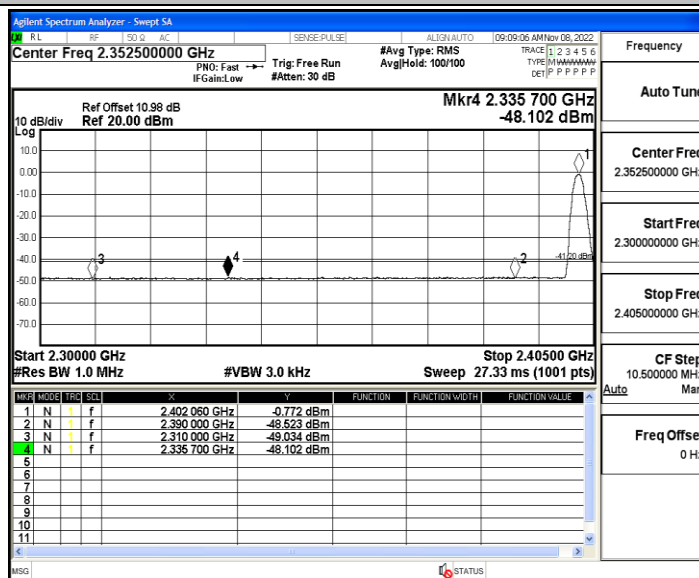
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.03	≤-41.20	PASS
				AV	2335.700	-48.1	≤-41.20	PASS
				AV	2390.000	-48.52	≤-41.20	PASS
				Peak	2310.000	-43.66	≤-21.20	PASS
				Peak	2384.420	-39.42	≤-21.20	PASS
				Peak	2390.000	-41.08	≤-21.20	PASS
		High	2480	AV	2483.500	-48.08	≤-41.20	PASS
				AV	2496.080	-47.38	≤-41.20	PASS
				AV	2500.000	-47.9	≤-41.20	PASS
				Peak	2483.500	-41.49	≤-21.20	PASS
				Peak	2488.960	-39.28	≤-21.20	PASS
				Peak	2500.000	-40.6	≤-21.20	PASS

Note:

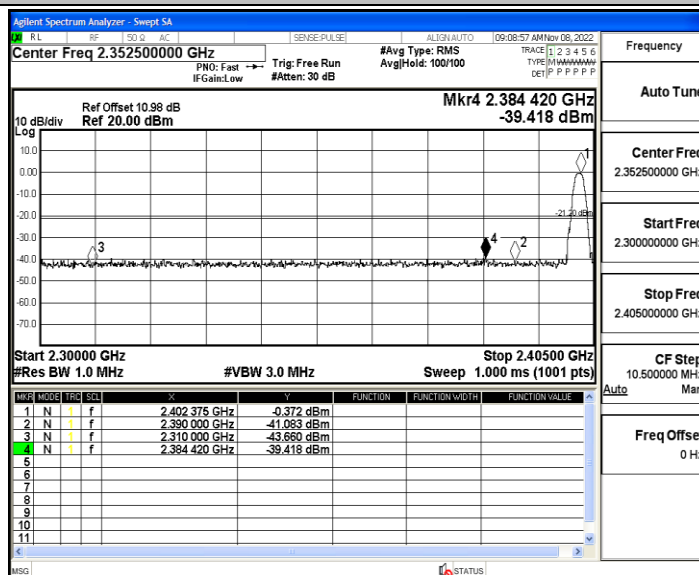
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

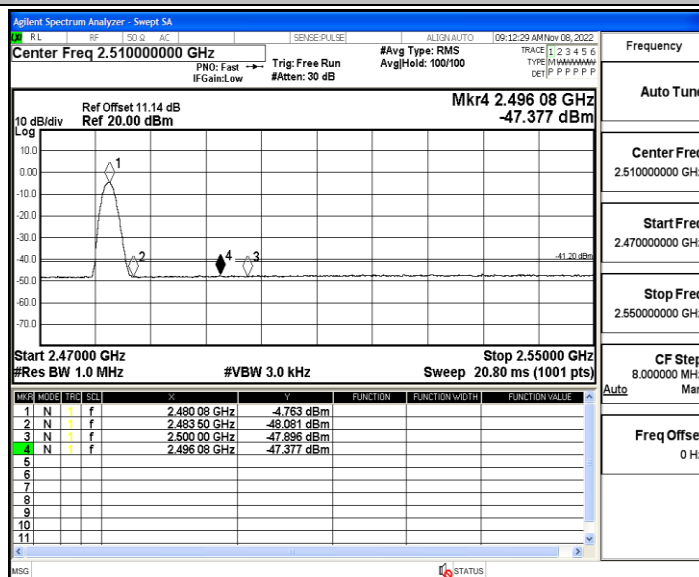
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

