



Appendix H

RF Test Data for BT LE V4.2 (DTS) (Conducted Measurement)

Product Name: Smartphone

Trade Mark: S Smooth

Test Model: Smooth 6.26 Pro

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan



H.1 DTS Bandwidth

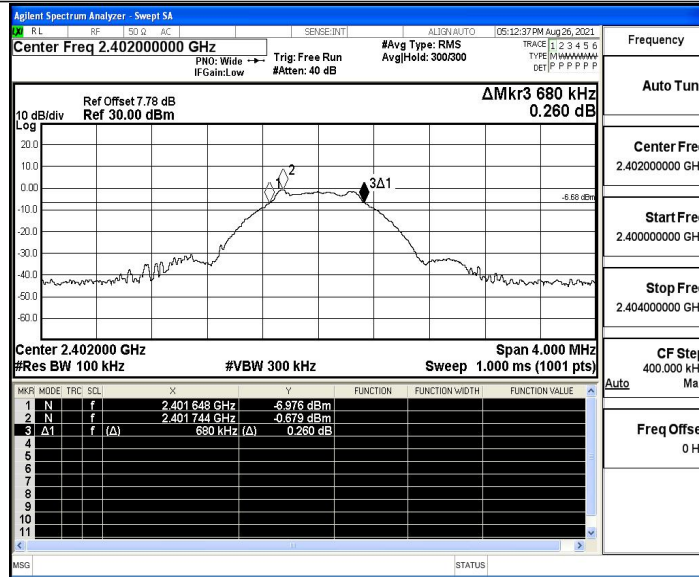
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.648	2402.328	≥ 0.5	PASS
		2440	0.676	2439.652	2440.328	≥ 0.5	PASS
		2480	0.684	2479.648	2480.332	≥ 0.5	PASS

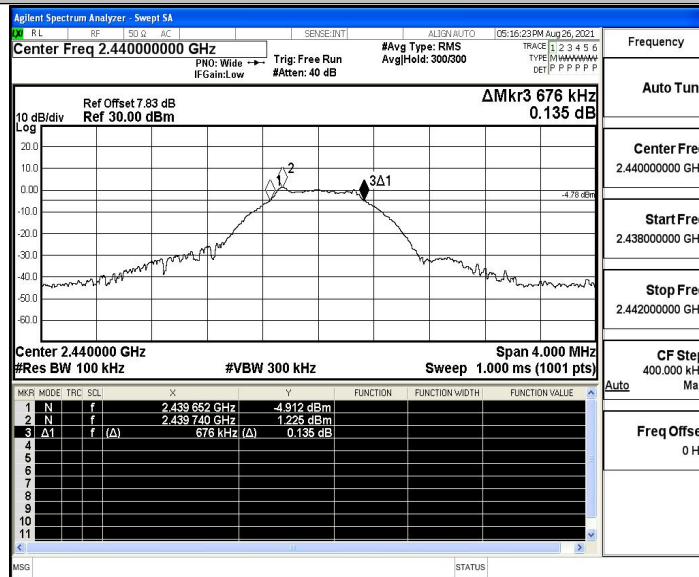


Test Graphs

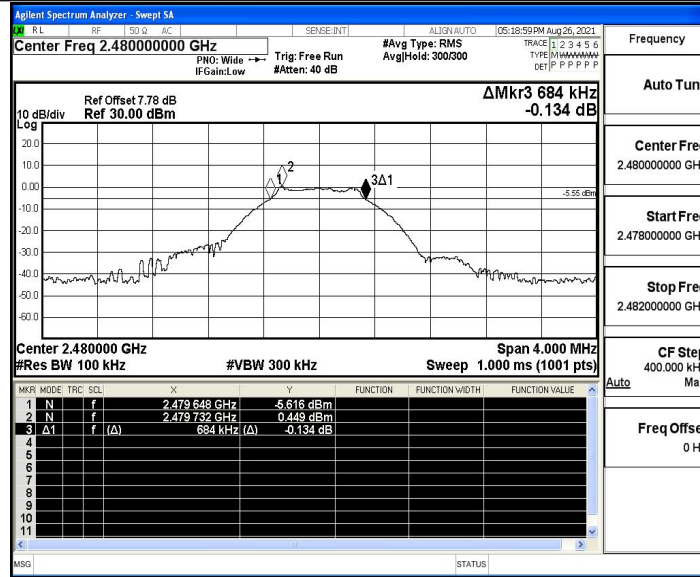
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





H.2 Maximum peak conducted output power

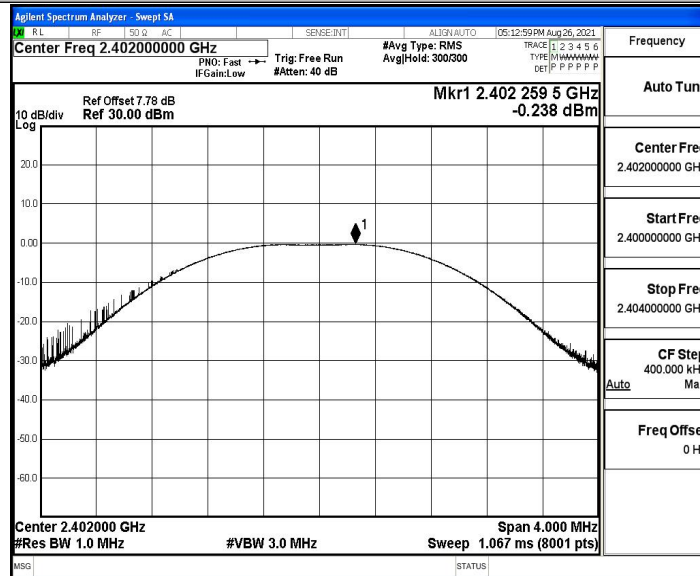
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.24	≤30	PASS
		2440	1.58	≤30	PASS
		2480	1.04	≤30	PASS

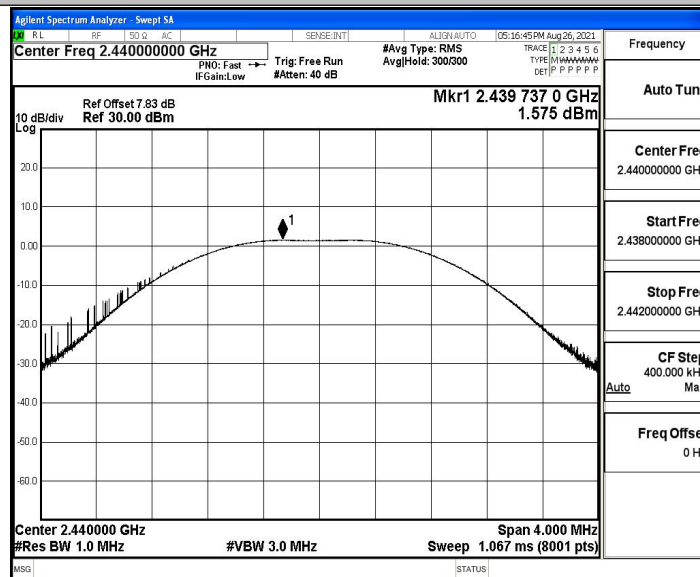


Test Graphs

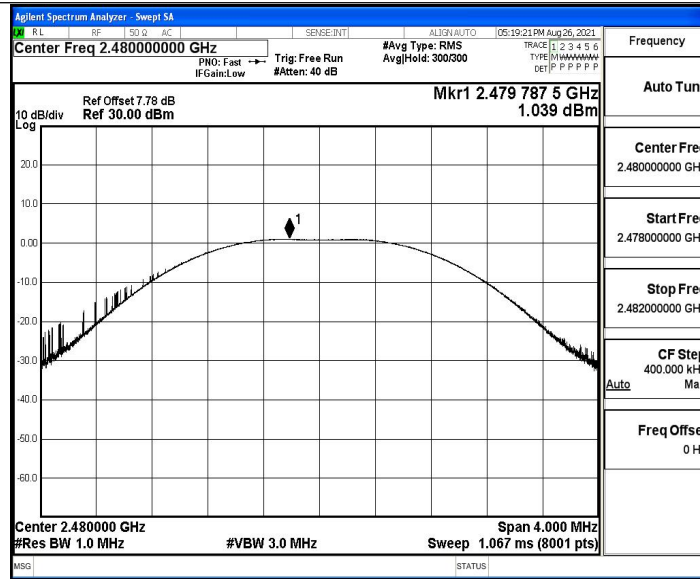
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





H.3 Maximum power spectral density

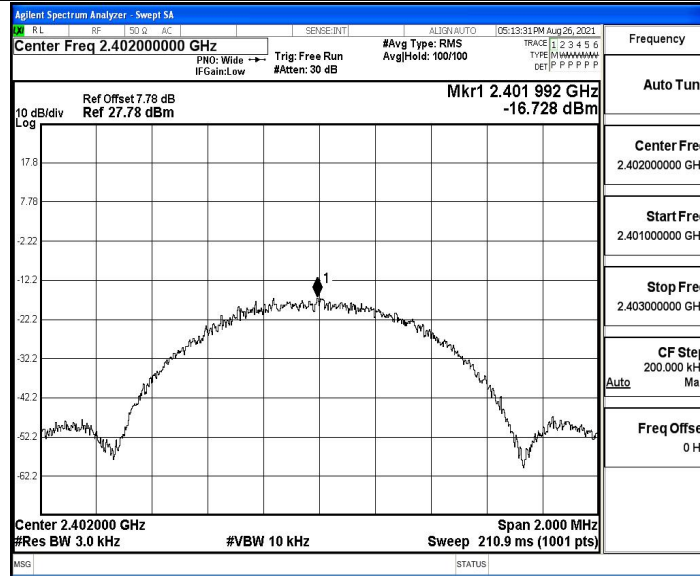
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.73	≤8	PASS
		2440	-14.68	≤8	PASS
		2480	-15.28	≤8	PASS

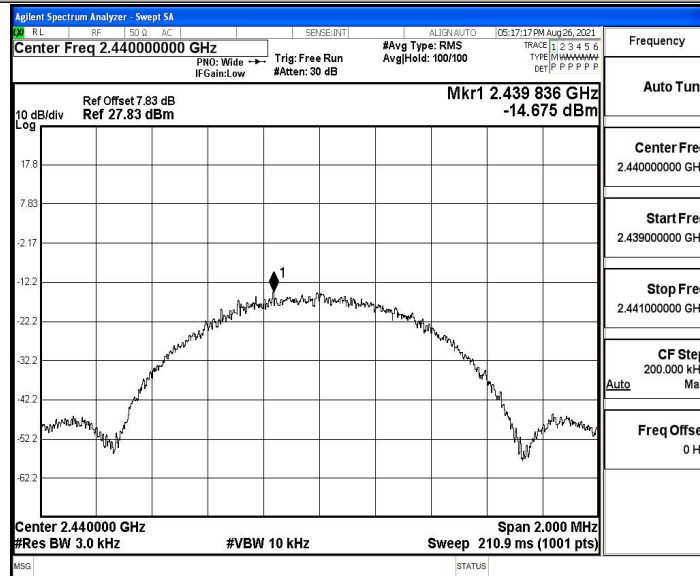


Test Graphs

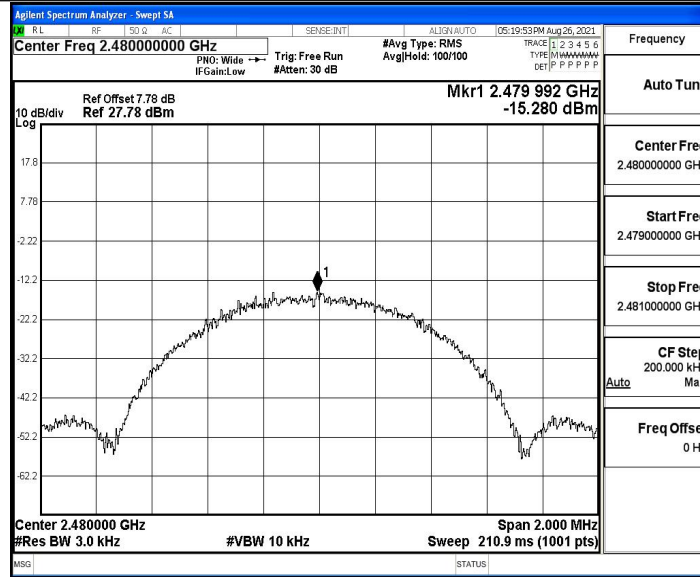
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





H.4 Band edge measurements

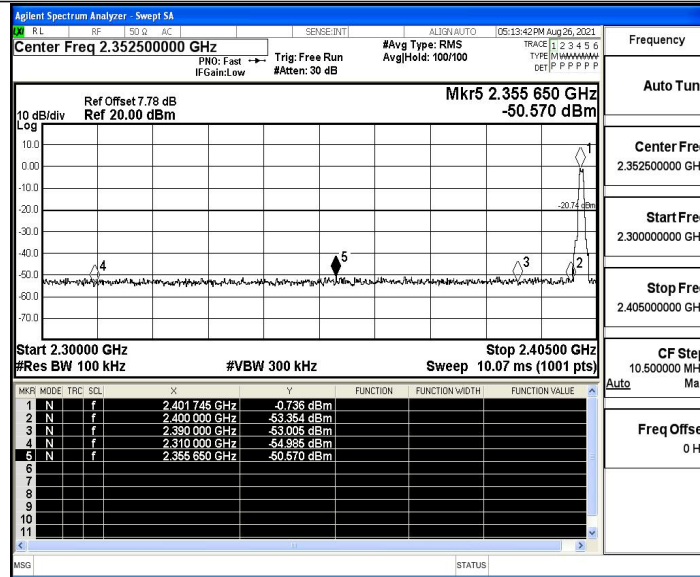
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.74	-50.57	≤ -20.74	PASS
		High	2480	0.14	-49.78	≤ -19.86	PASS

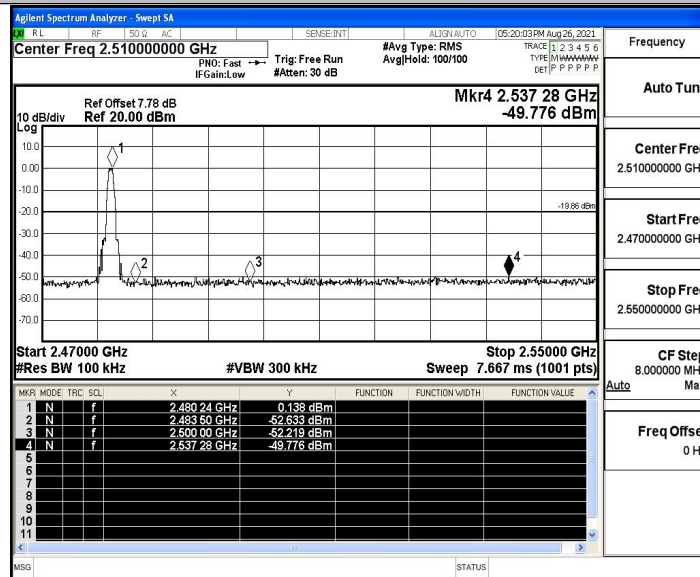


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





H.5 Conducted Spurious Emission

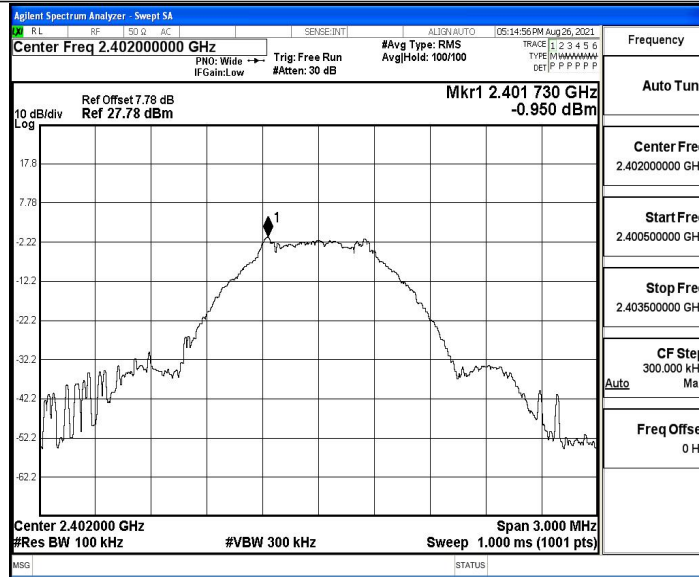
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-60.54	≤ -20.95	PASS
			1000~26500	-0.95	-45.67	≤ -20.95	PASS
		2440	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-60.79	≤ -19.4	PASS
			1000~26500	0.60	-47.43	≤ -19.4	PASS
		2480	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-61.11	≤ -19.25	PASS
			1000~26500	0.75	-47.21	≤ -19.25	PASS

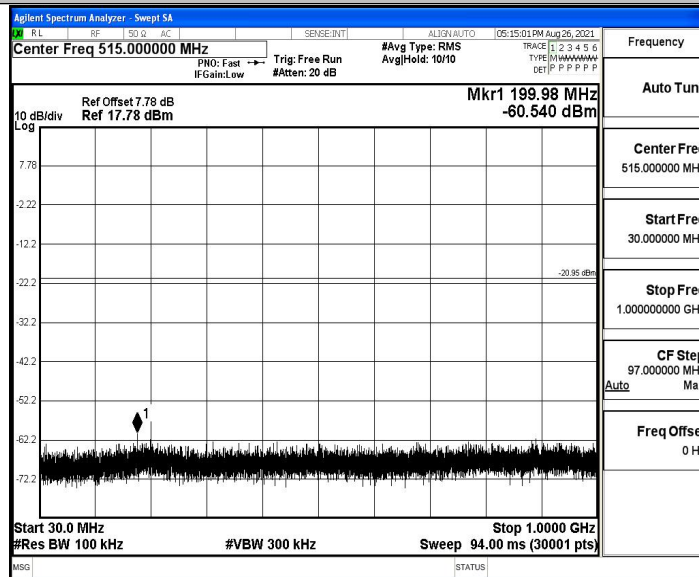


Test Graphs

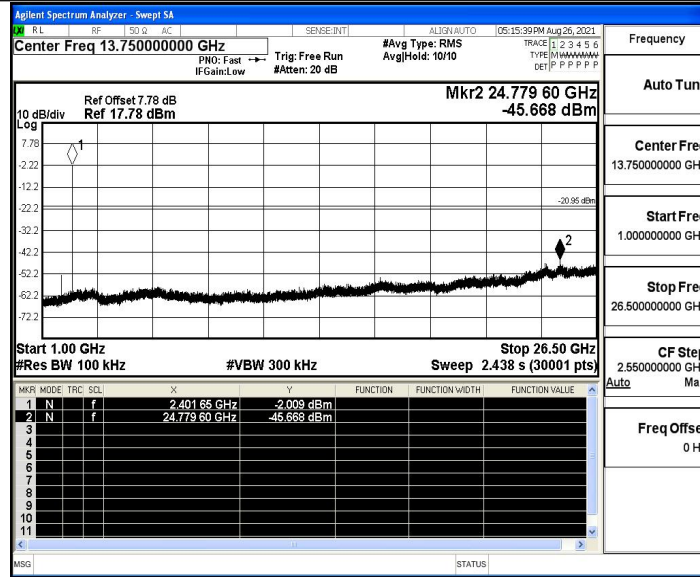
BLE_1M_Ant1_2402_0~Reference



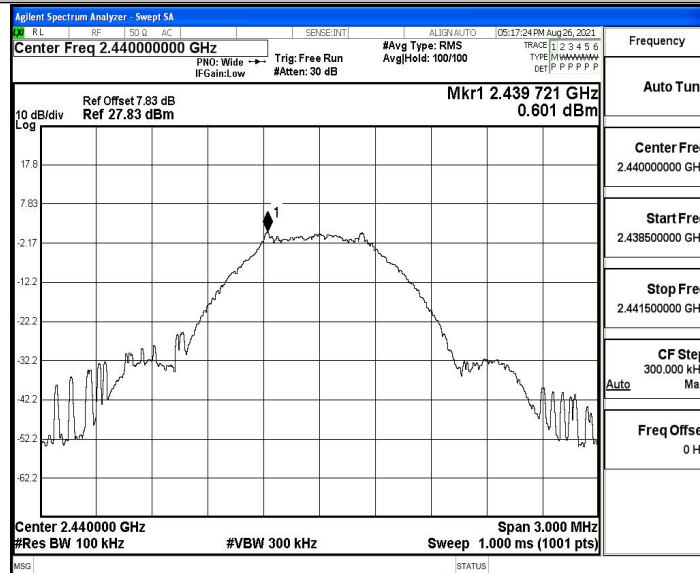
BLE_1M_Ant1_2402_30~1000



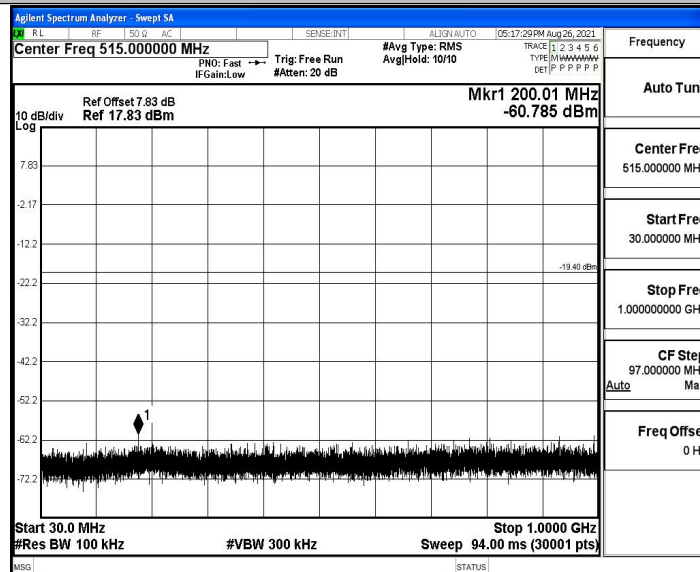
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

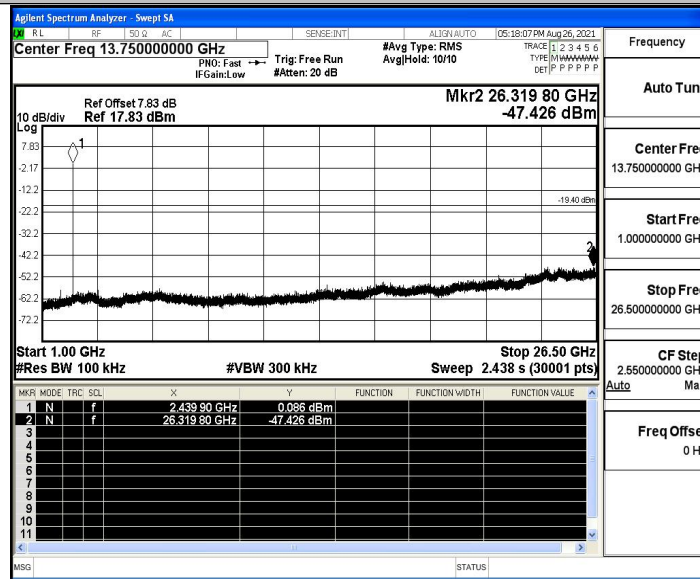


BLE_1M_Ant1_2440_30~1000

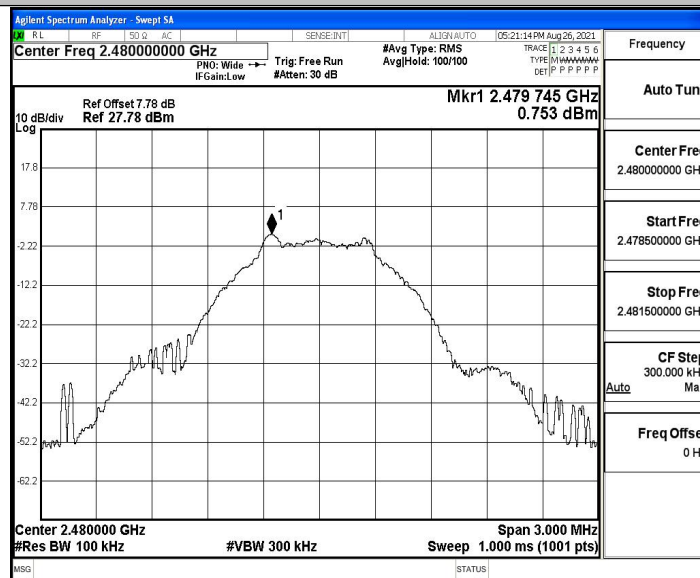




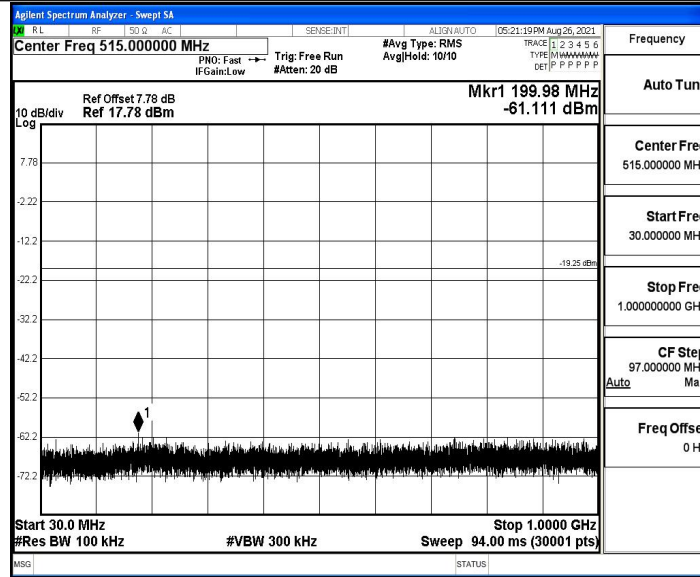
BLE_1M_Ant1_2440_1000~26500



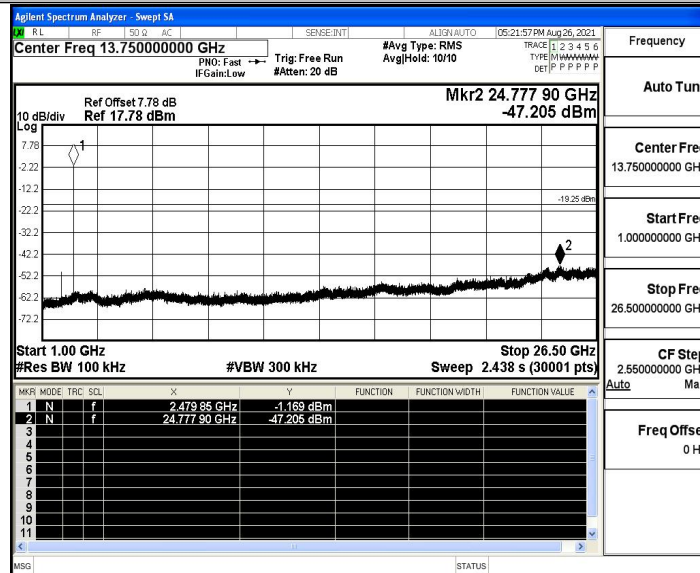
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





H.7 Emissions in Restricted Bands Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	V
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.08	≤-41.20	46.12	≤54	
				AV	2388.830	-48.42	≤-41.20	46.78	≤54	
				AV	2390.000	-48.66	≤-41.20	46.54	≤54	
				Peak	2310.000	-40.28	≤-21.20	54.92	≤74	
				Peak	2352.395	-38.81	≤-21.20	56.39	≤74	
				Peak	2390.000	-42.13	≤-21.20	53.07	≤74	
		High	2480	AV	2483.500	-47.23	≤-41.20	47.97	≤54	
				AV	2483.520	-47.23	≤-41.20	47.97	≤54	
				AV	2500.000	-48.04	≤-41.20	47.16	≤54	
				Peak	2483.500	-39.23	≤-21.20	55.97	≤74	
				Peak	2496.800	-38.76	≤-21.20	56.44	≤74	
				Peak	2500.000	-40.87	≤-21.20	54.33	≤74	

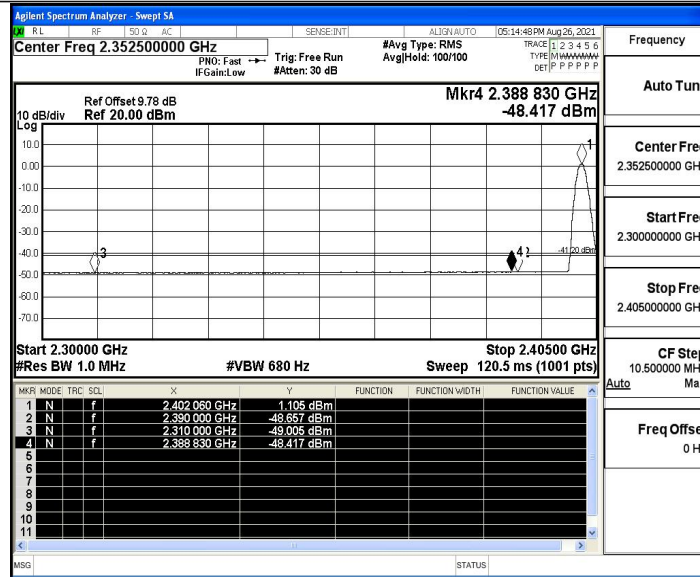
Note:

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.

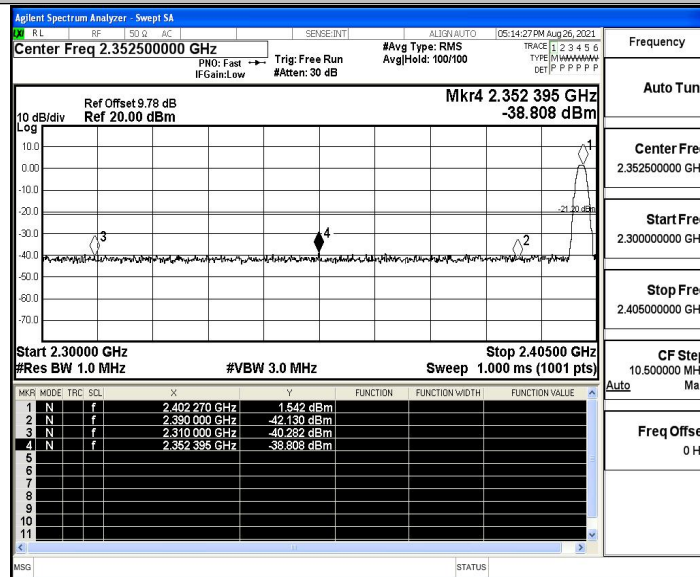


Test Graphs

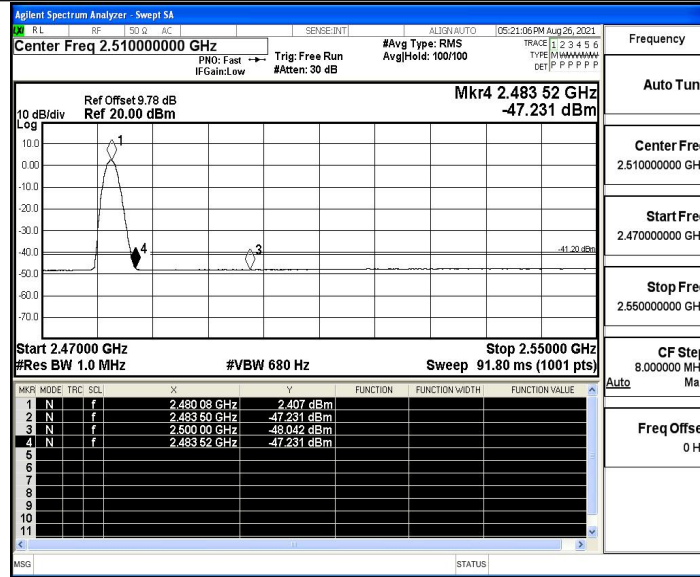
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

