



Appendix B

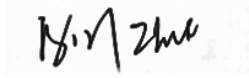
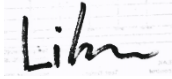
RF Test Data for BT LE V5.0(DTS) (Conducted Measurement)

Product Name: Digital media reciever

Trade Mark: NAKAMICHI

Test Model: NQ723BD

Environmental Conditions

Temperature:	21.1℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



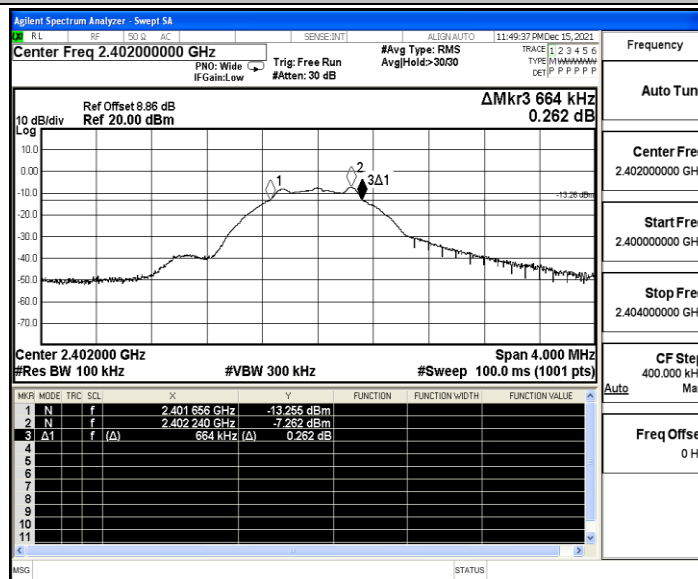
B.1 DTS Bandwidth

Test Result

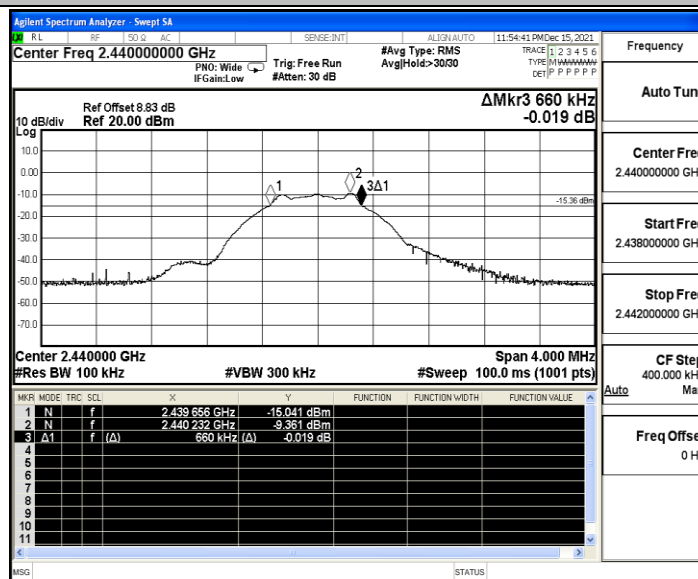
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.656	2402.320	0.5	PASS
		2440	0.660	2439.656	2440.316	0.5	PASS
		2480	0.656	2479.652	2480.308	0.5	PASS

Test Graphs

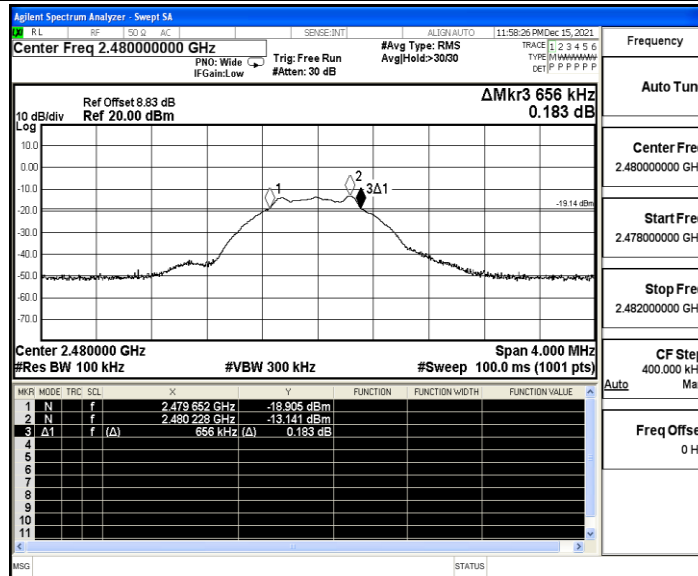
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.96	≤36	PASS
		2440	-8.92	≤36	PASS
		2480	-12.48	≤36	PASS



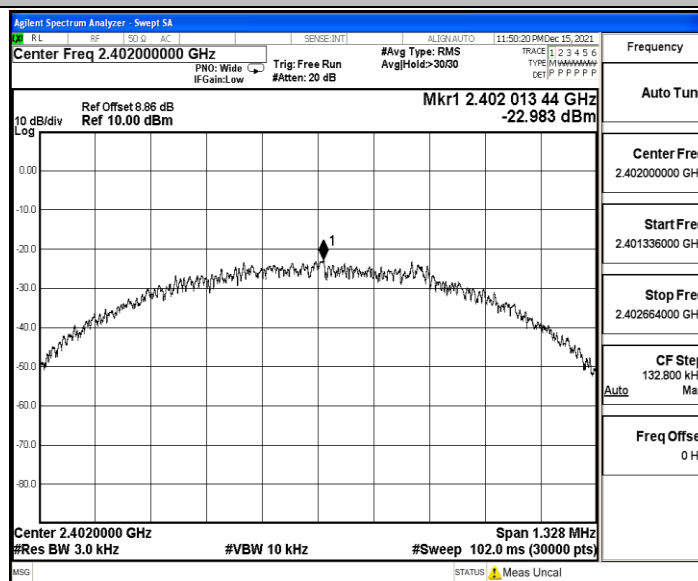
B.3 Maximum power spectral density

Test Result

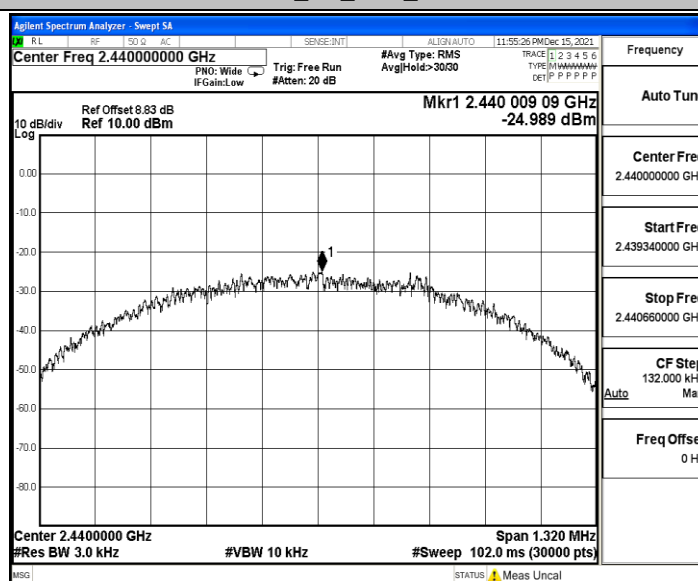
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-22.98	≤8	PASS
		2440	-24.99	≤8	PASS
		2480	-28.99	≤8	PASS

Test Graphs

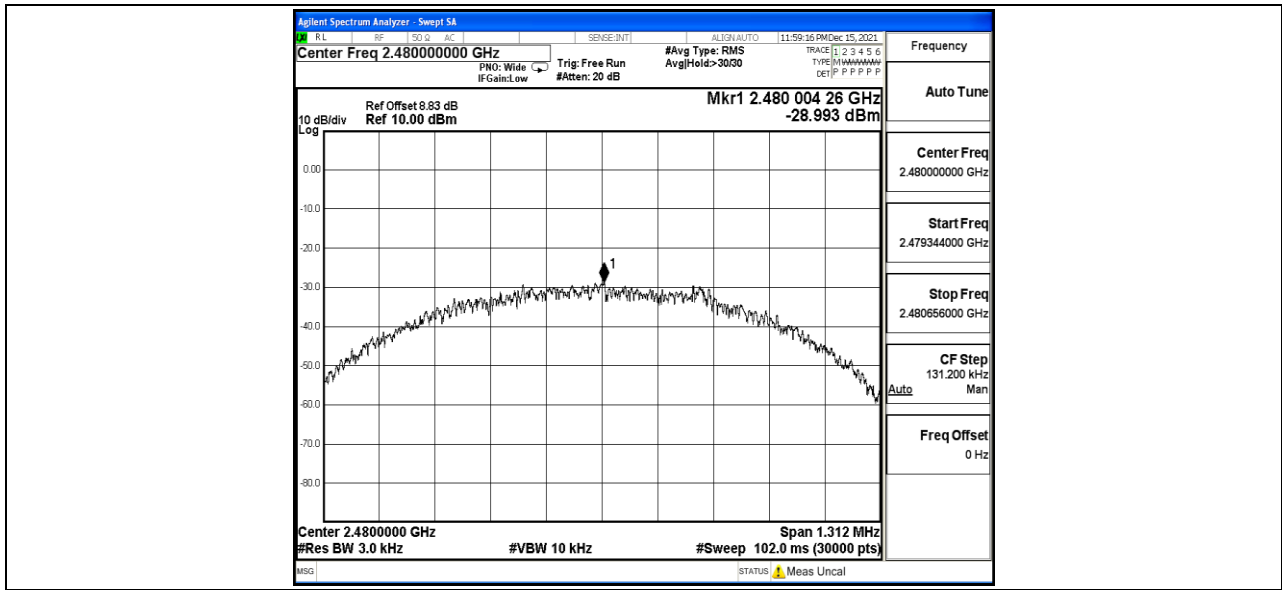
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





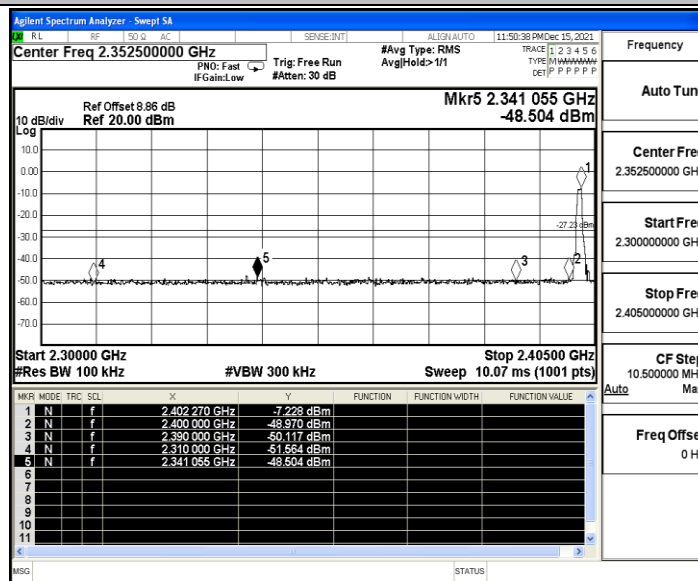
B.4 Band edge measurements

Test Result

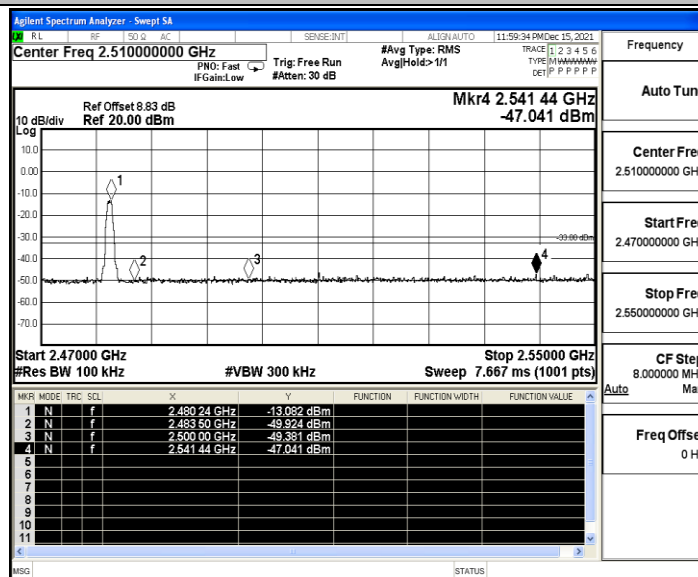
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-7.23	-48.5	≤-27.23	PASS
		High	2480	-13.08	-47.04	≤-33.08	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

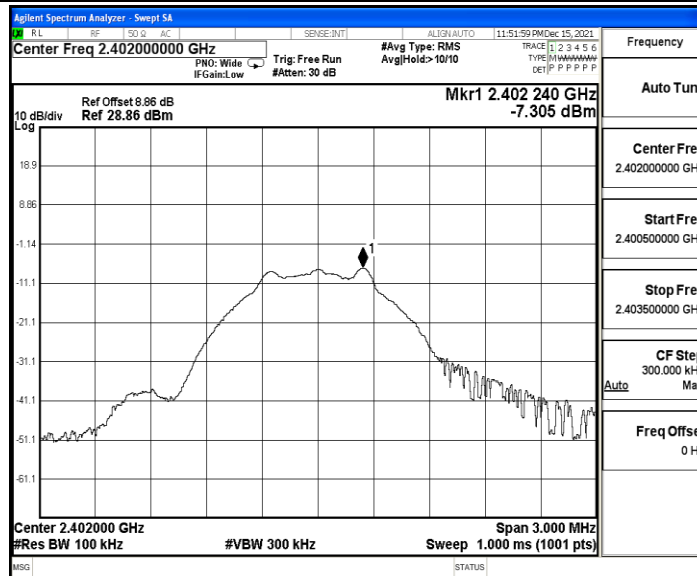
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-7.31	-7.31	---	PASS
			30~1000	-7.31	-60.53	≤-27.31	PASS
			1000~26500	-7.31	-46.11	≤-27.31	PASS
		2440	Reference	-9.32	-9.32	---	PASS
			30~1000	-9.32	-59.67	≤-29.32	PASS
			1000~26500	-9.32	-45.95	≤-29.32	PASS
		2480	Reference	-13.14	-13.14	---	PASS
			30~1000	-13.14	-59.74	≤-33.14	PASS
			1000~26500	-13.14	-44.72	≤-33.14	PASS

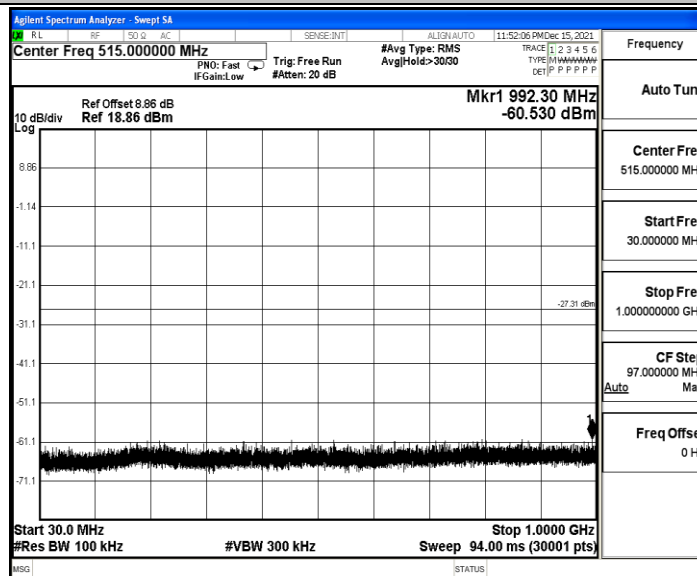


Test Graphs

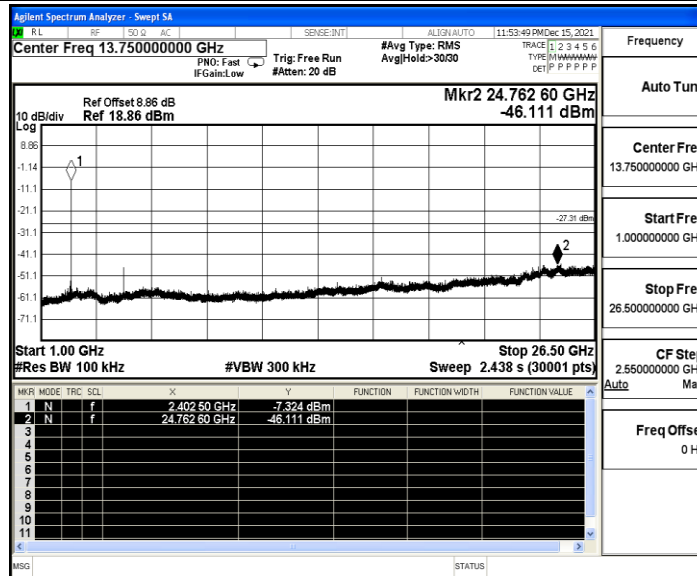
BLE_1M_Ant1_2402_0-Reference



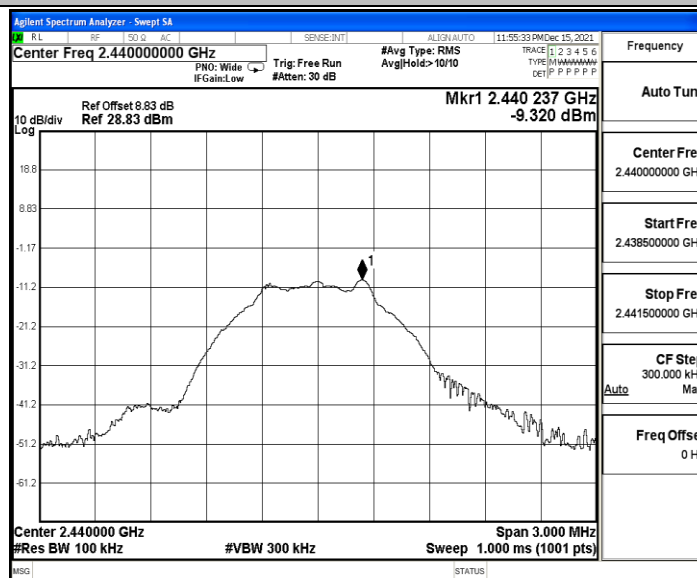
BLE_1M_Ant1_2402_30-1000



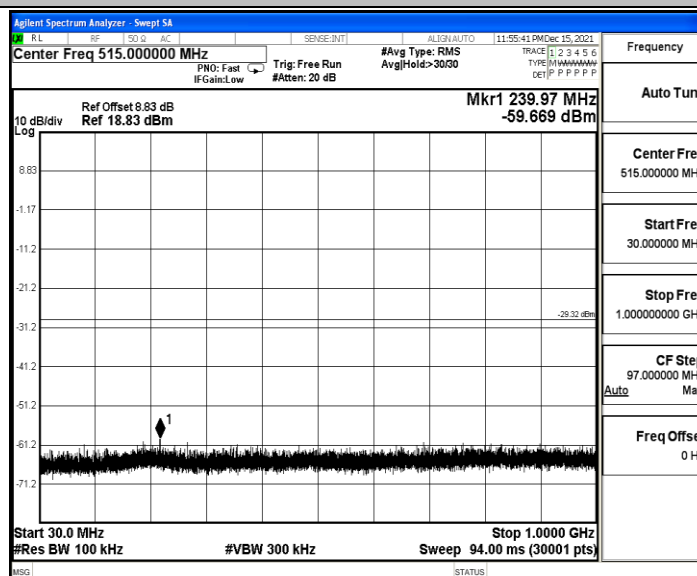
BLE_1M_Ant1_2402_1000-26500

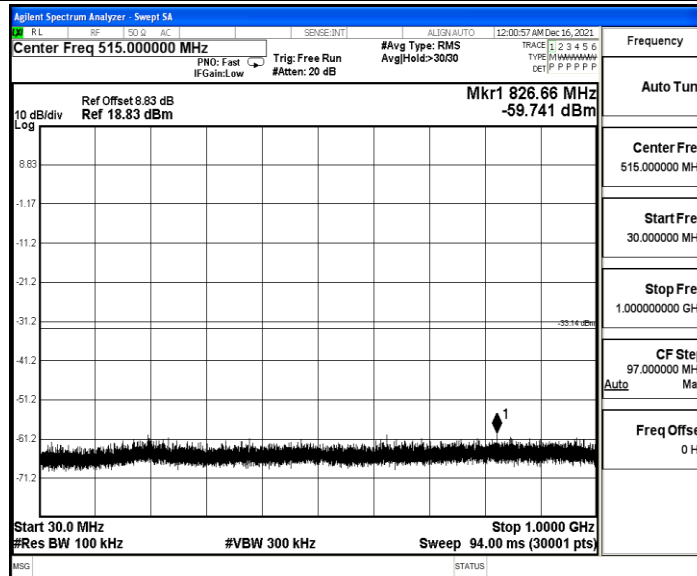


BLE_1M_Ant1_2440_0~Reference

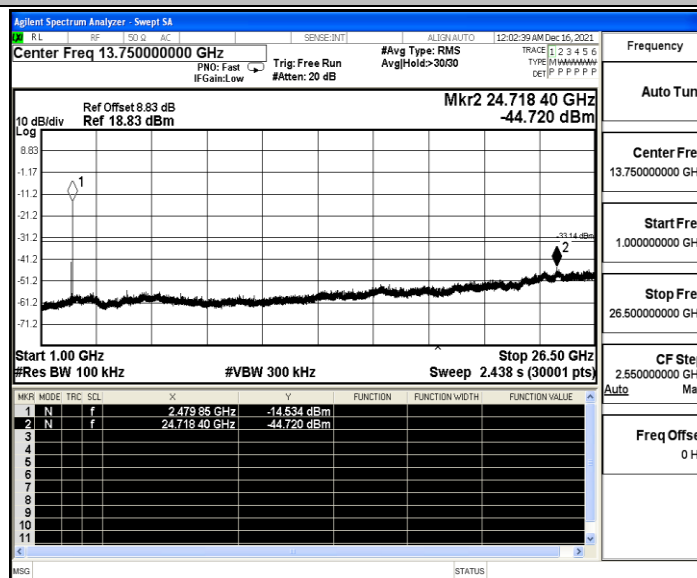


BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2480_1000~26500



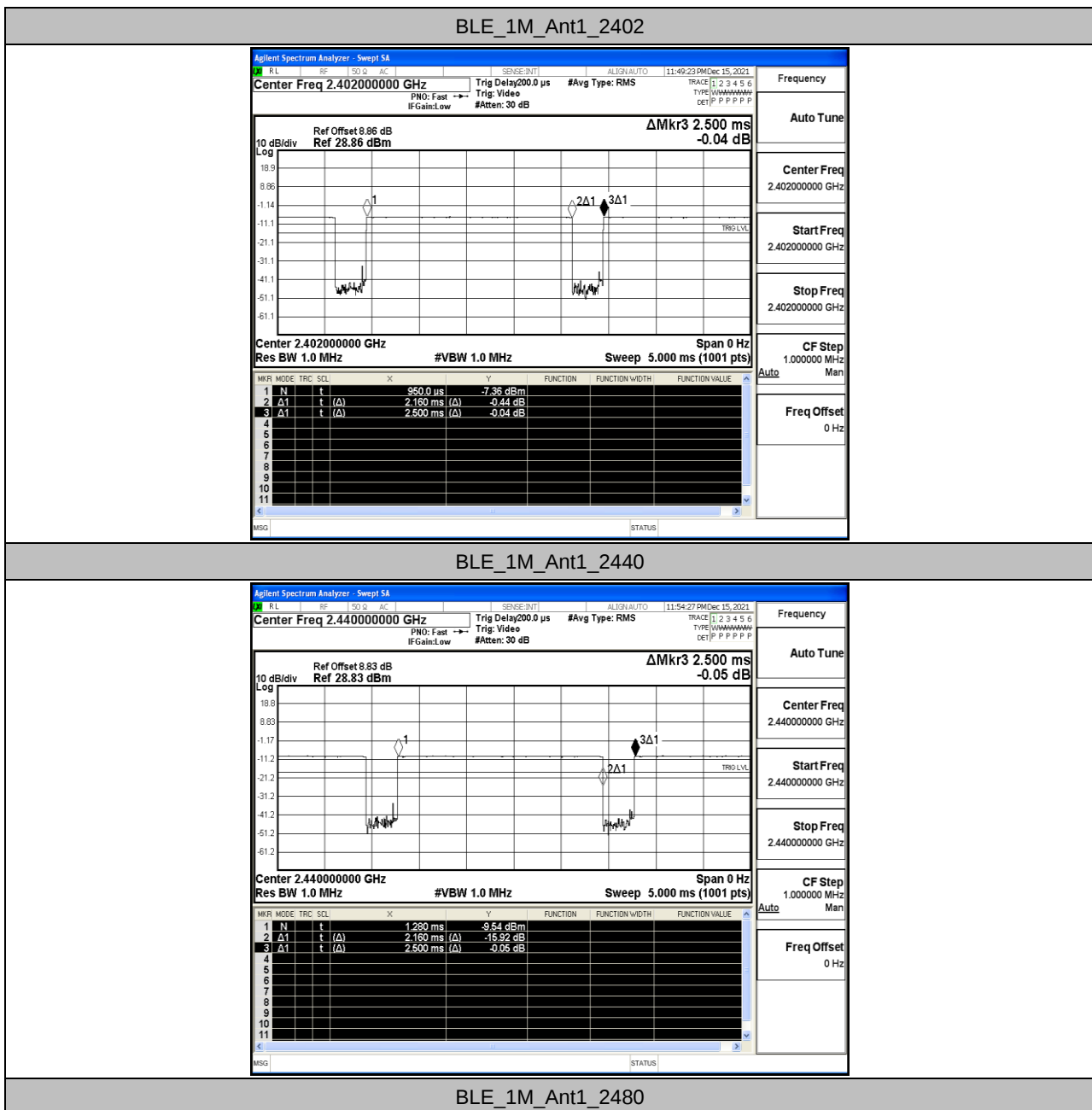


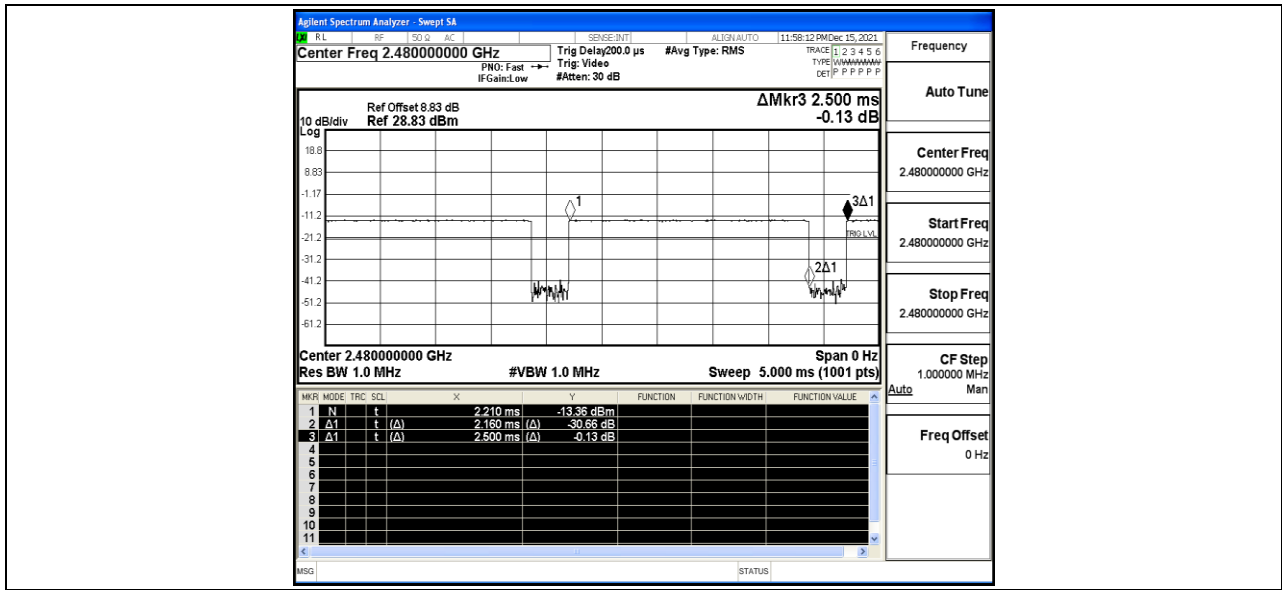
B.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.16	2.50	86.40	0.63
		2440	2.16	2.50	86.40	0.63
		2480	2.16	2.50	86.40	0.63

Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.96	≤-41.20	47.24	≤54	PASS
				AV	2372.240	-46.39	≤-41.20	48.81	≤54	PASS
				AV	2390.000	-47.55	≤-41.20	47.65	≤54	PASS
				Peak	2310.000	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2373.185	-35.87	≤-21.20	59.33	≤74	PASS
				Peak	2390.000	-38.68	≤-21.20	56.52	≤74	PASS
		High	2480	AV	2483.500	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2497.680	-46.79	≤-41.20	48.41	≤54	PASS
				AV	2500.000	-46.98	≤-41.20	48.22	≤54	PASS
				Peak	2483.500	-38.08	≤-21.20	57.12	≤74	PASS
				Peak	2494.400	-36.1	≤-21.20	59.10	≤74	PASS
				Peak	2500.000	-37.63	≤-21.20	57.57	≤74	PASS

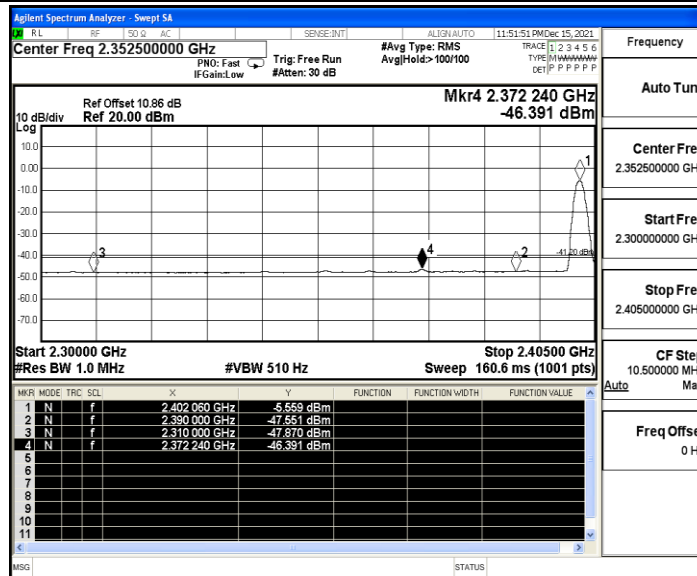
Note:

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.

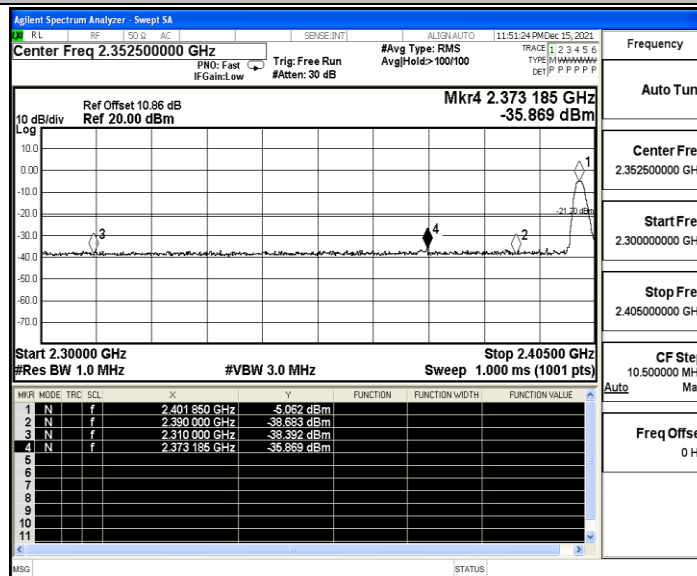


Test Graphs

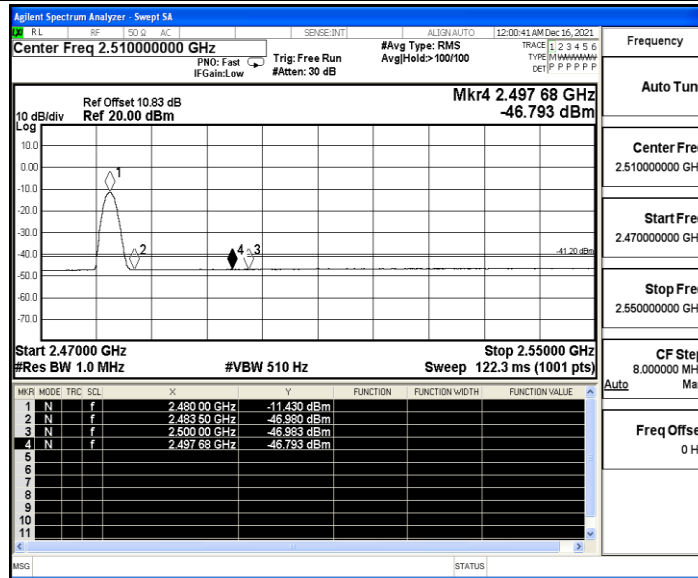
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

