Appendix A

RF Test Data for BT 4.2 (BLE) (Conducted Measurement)

Product Name: TS Smart Interconnect Lock

Trade Mark: N/A

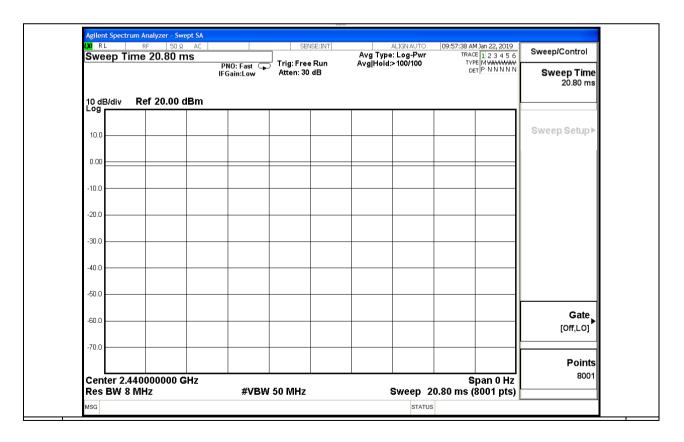
Test Model: e-Genius 5000-BLE-55

Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	AKING JIN
Supervised by:	Jayden.Zhuo

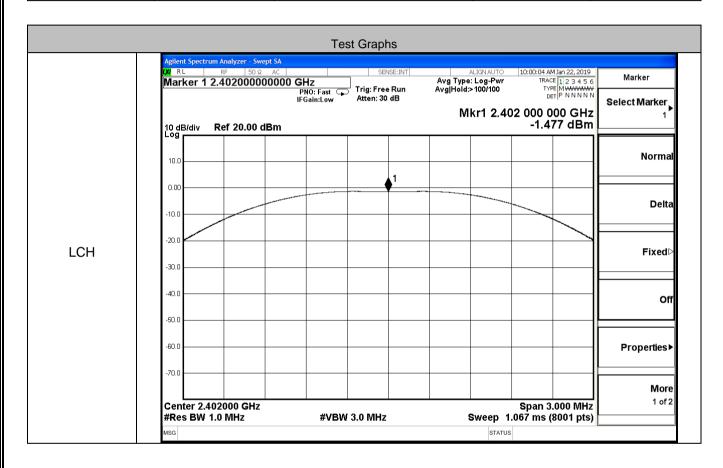
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict	
BT LE	2440	Ant1	100	PASS	



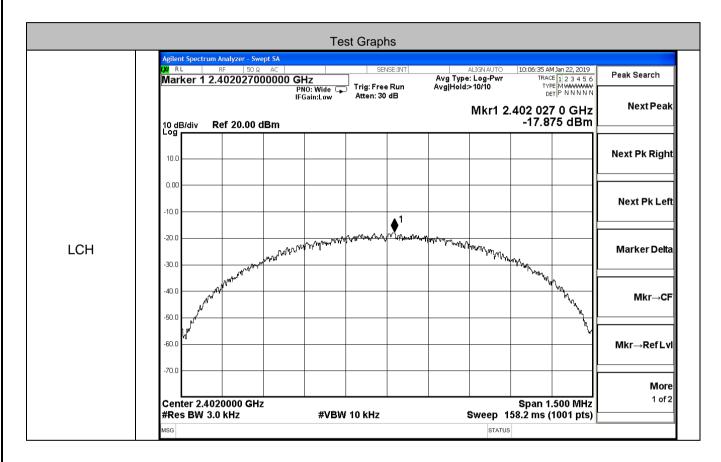
A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.477	30	PASS
BT LE	MCH	-1.465	30	PASS
BT LE	HCH	-1.749	30	PASS



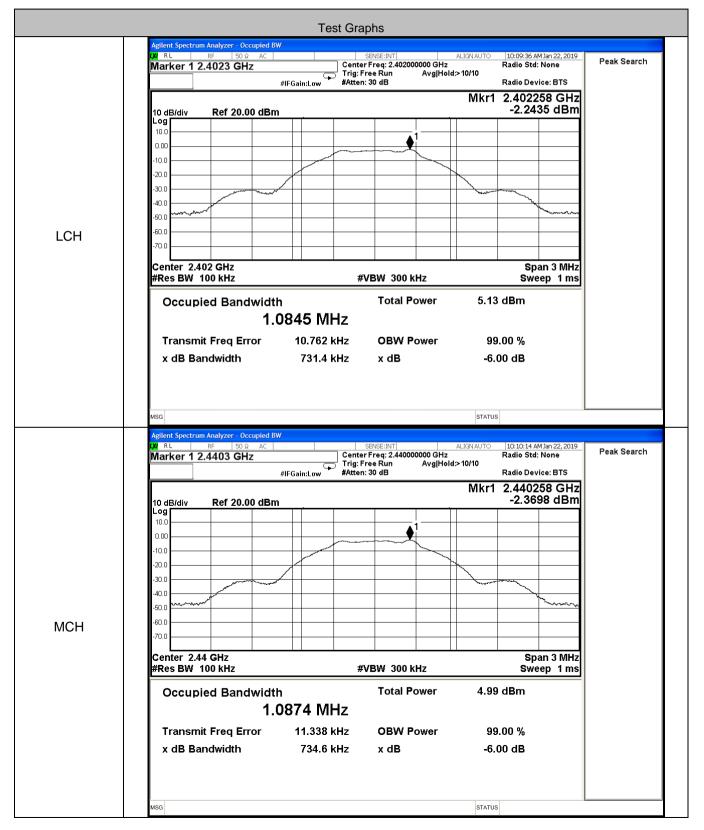
A.3 Maximum Power Spectral Density

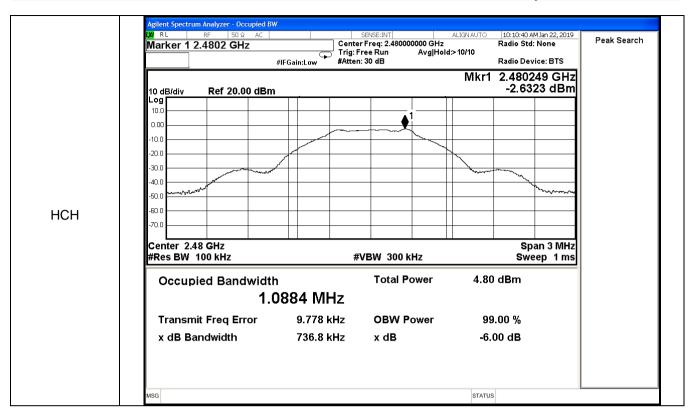
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.875	8	PASS
BT LE	MCH	-18.121	8	PASS
BT LE	НСН	-18.178	8	PASS



A.4 6dB Bandwidth

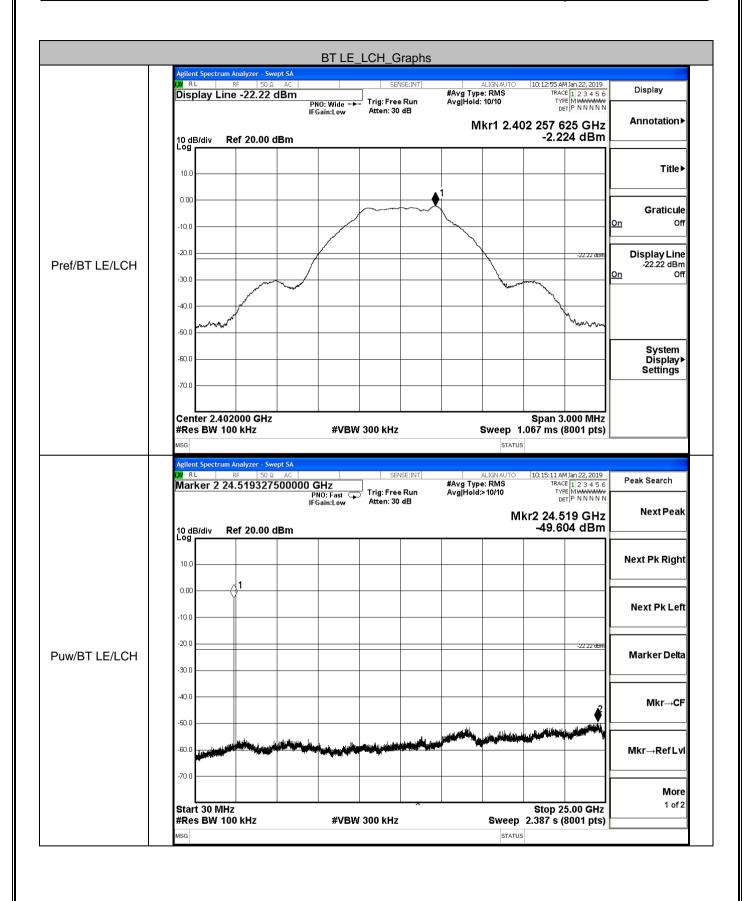
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7314	≥0.5	PASS
BT LE	MCH	0.7346	≥0.5	PASS
BT LE	HCH	0.7368	≥0.5	PASS

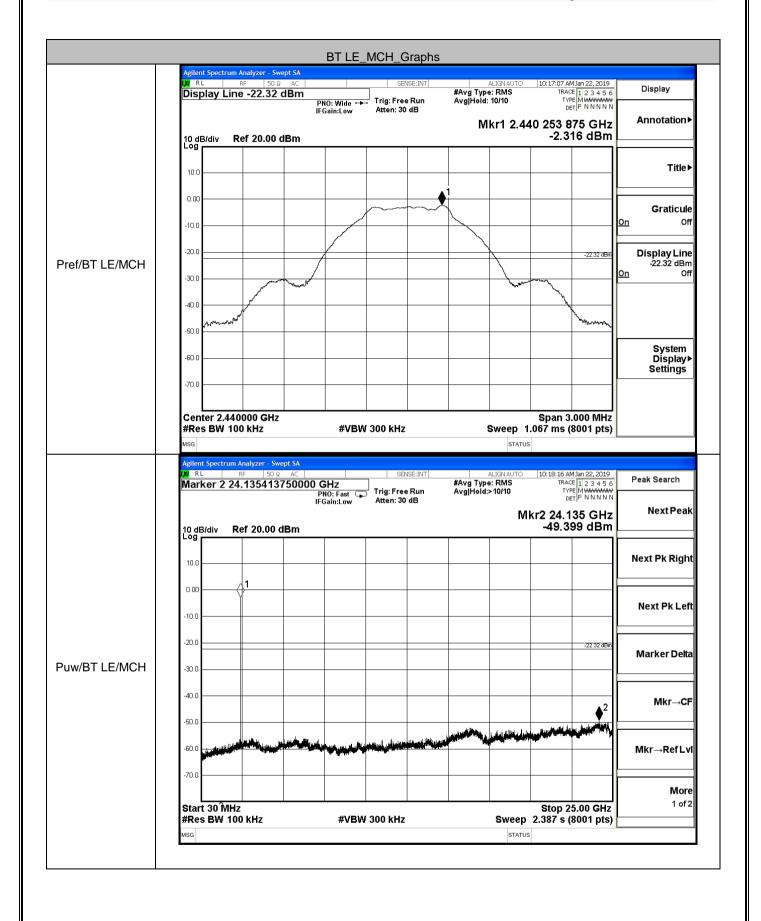


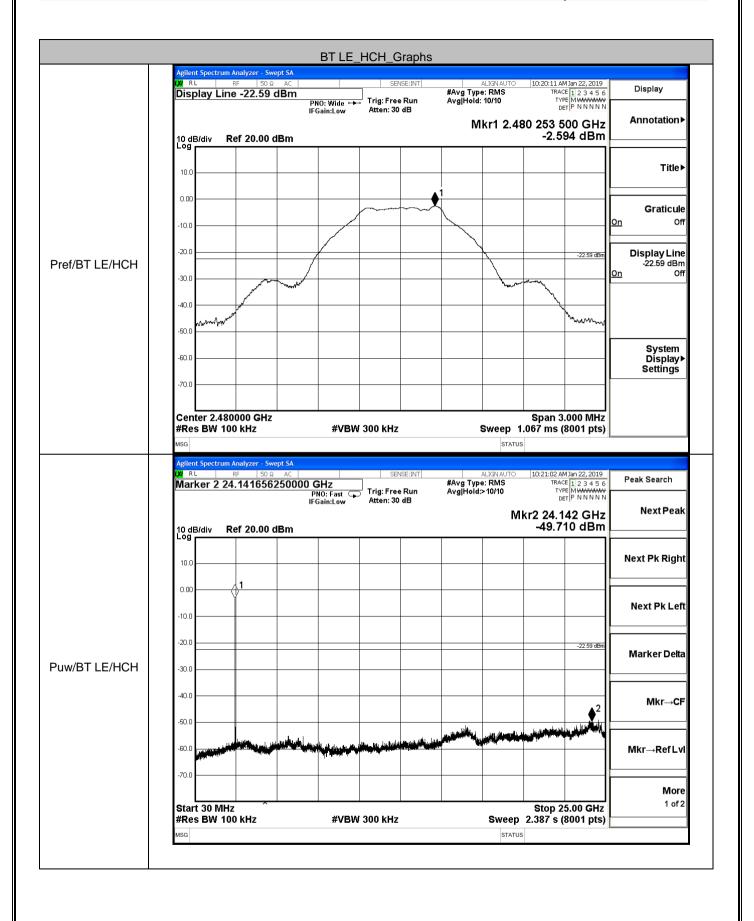


A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.224	-49.604	-22.224	PASS
BT LE	MCH	-2.316	-49.399	-22.316	PASS
BT LE	НСН	-2.594	-49.710	-22.594	PASS

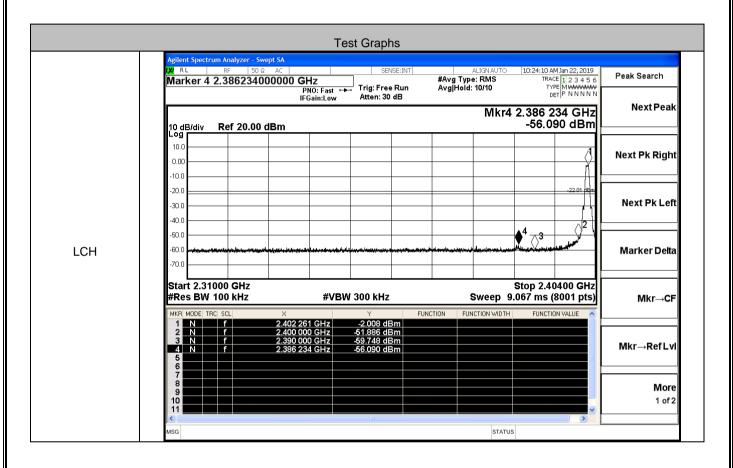


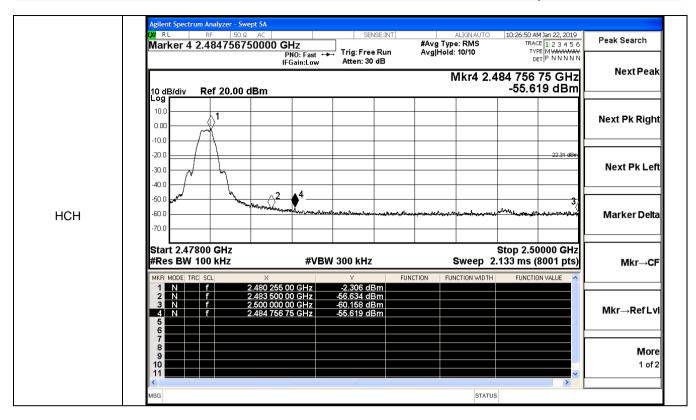




A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.008	-56.090	-22.008	PASS
BT LE	HCH	-2.305	-55.619	-22.305	PASS

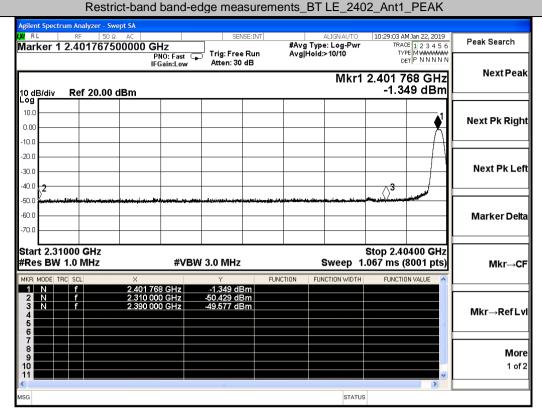




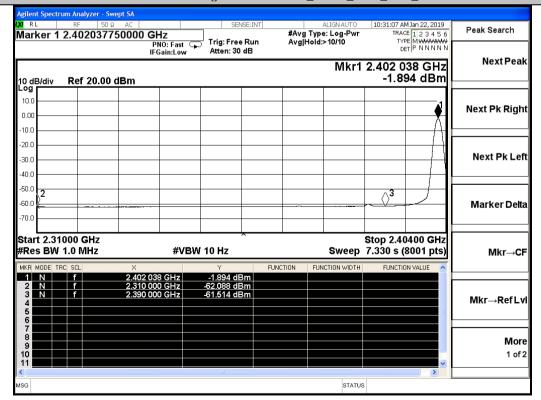
A.7 Restrict-band band-edge measurements

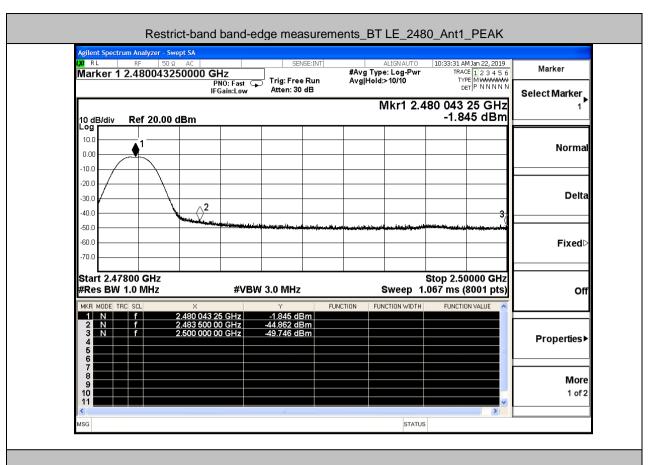
Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-50.43	2.23	0	47.06	PEAK	74	PASS
	2402	Ant1	2310.0	-62.09	2.23	0	35.40	AV	54	PASS
		Ant1	2390.0	-49.58	2.23	0	47.91	PEAK	74	PASS
		Ant1	2390.0	-61.51	2.23	0	35.98	AV	54	PASS
BT LE	2480	Ant1	2483.5	-44.86	2.23	0	52.63	PEAK	74	PASS
		Ant1	2483.5	-57.35	2.23	0	40.14	AV	54	PASS
		Ant1	2500.0	-49.75	2.23	0	47.74	PEAK	74	PASS
		Ant1	2500.0	-61.52	2.23	0	35.97	AV	54	PASS





Restrict-band band-edge measurements_BT LE_2402_Ant1_AV





Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

