Appendix A

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

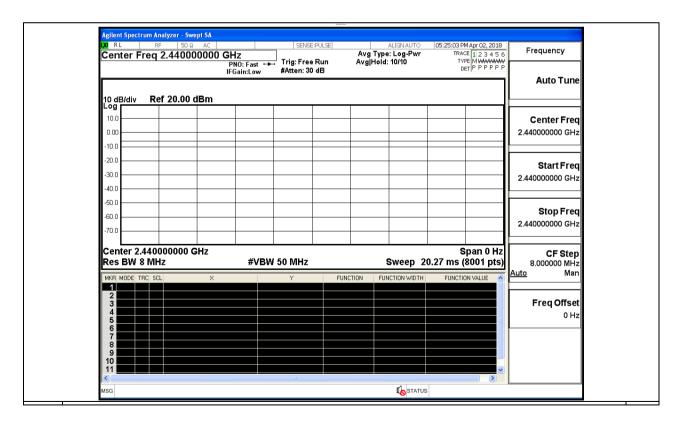
Product Name: Aqua Illumination Nero Submersible Pump
Trade Mark: Aqua Illumination
Test Model: Nero 5

Environmental Conditions

Temperature:	22.3 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.zhuo

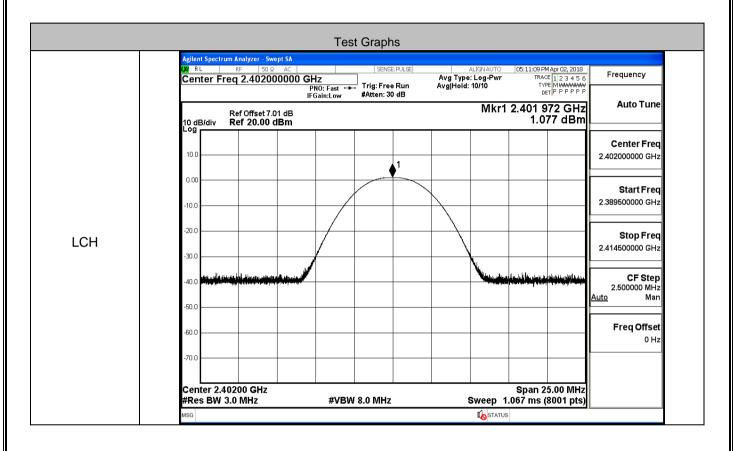
A.1 Duty Cycle

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



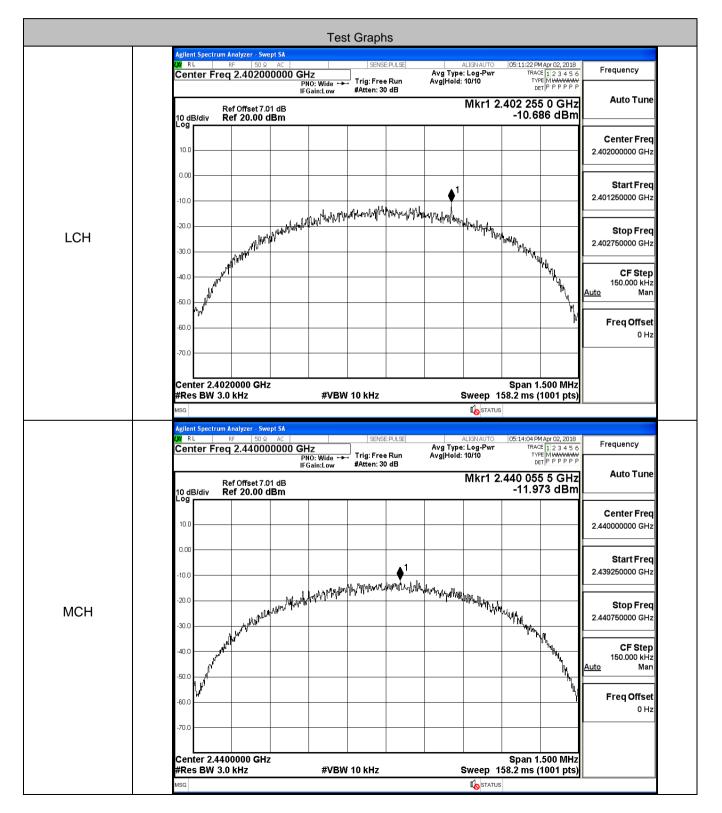
A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.077	30	PASS
BT LE	MCH	0.996	30	PASS
BT LE	HCH	1.015	30	PASS

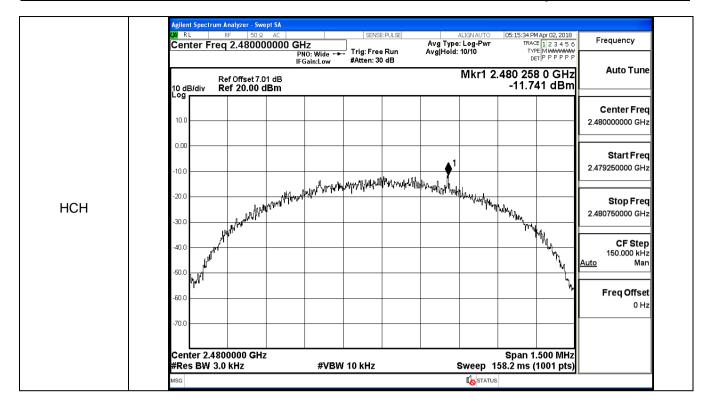


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-10.686	8	PASS
BT LE	MCH	-11.973	8	PASS
BT LE	НСН	-11.741	8	PASS

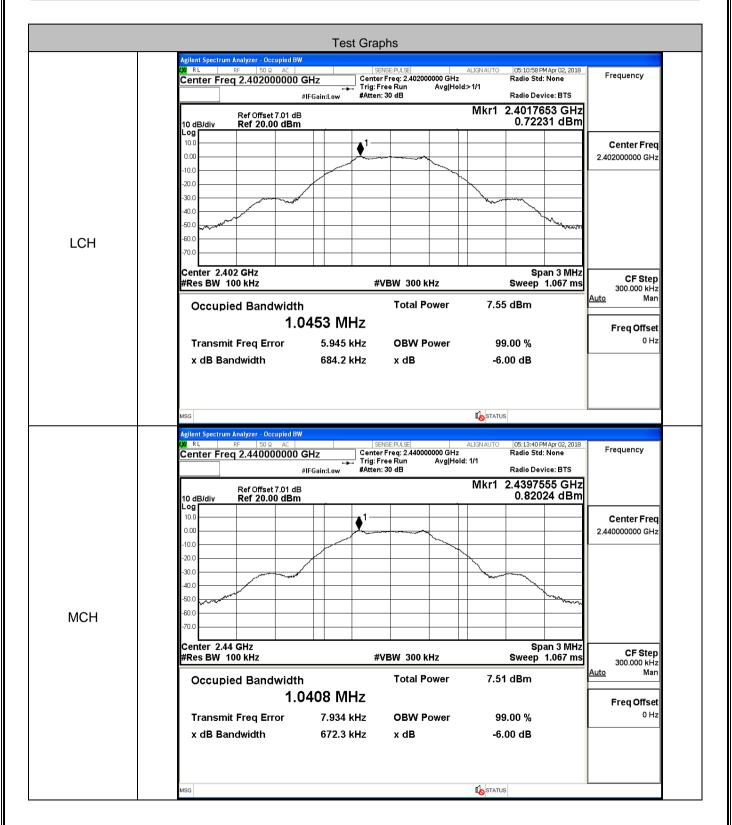


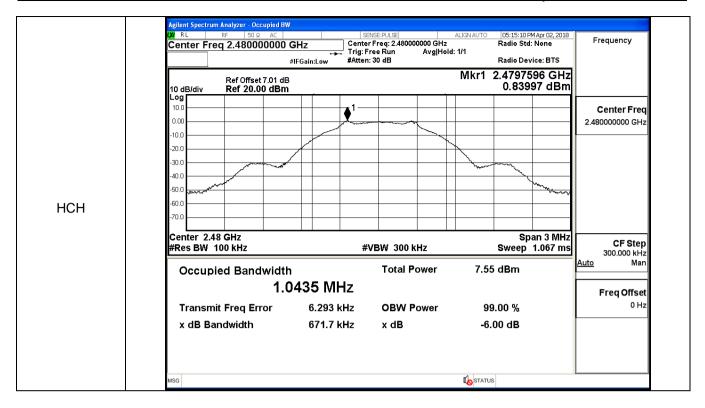
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A.4 6dB Bandwidth

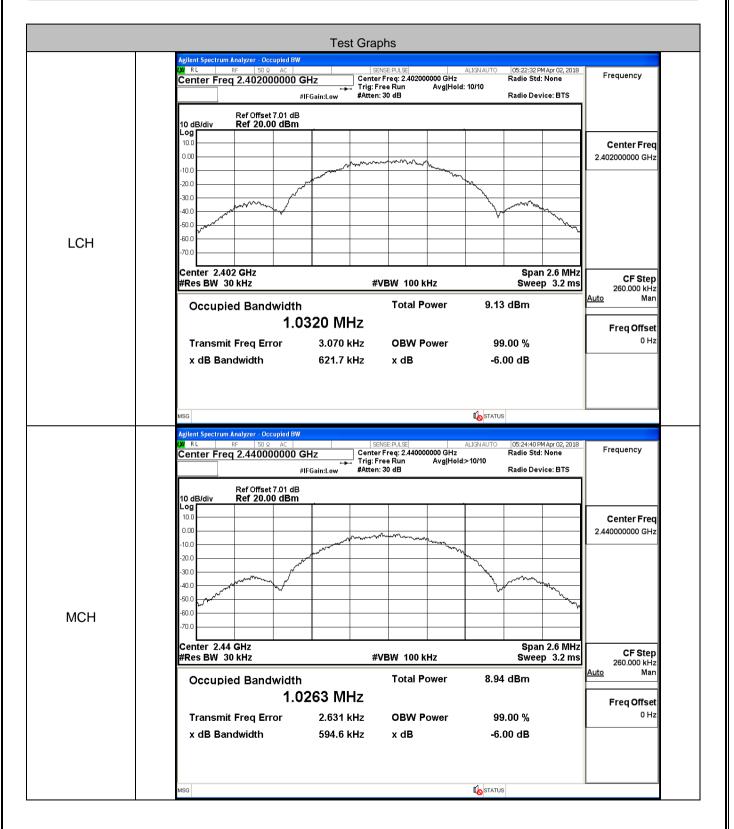
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6842	≥0.5	PASS
BT LE	MCH	0.6723	≥0.5	PASS
BT LE	HCH	0.6717	≥0.5	PASS

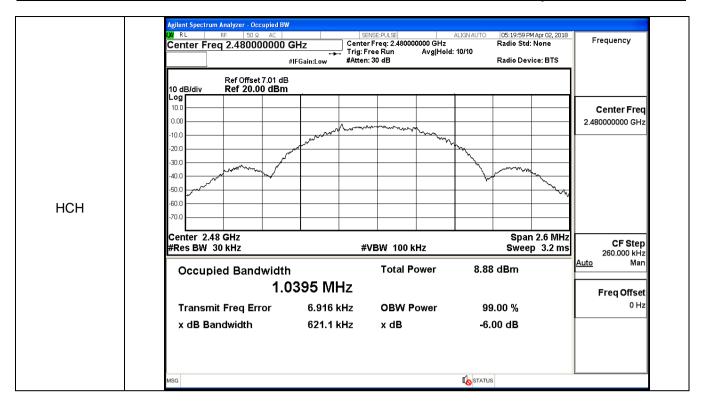




A.5 Occupied Bandwidth

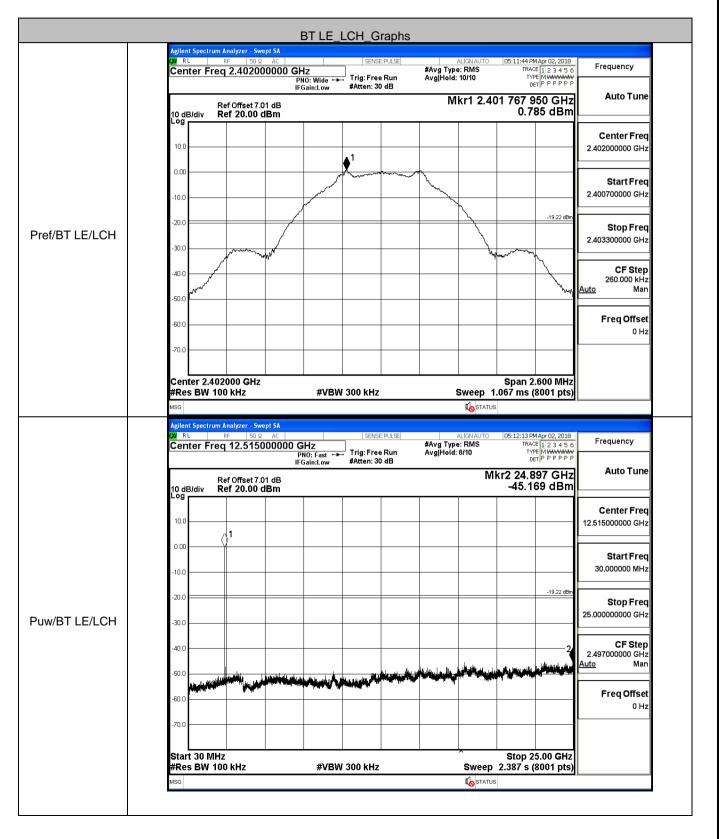
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0320	Not Specified	PASS
BT LE	MCH	1.0263	Not Specified	PASS
BT LE	HCH	1.0395	Not Specified	PASS

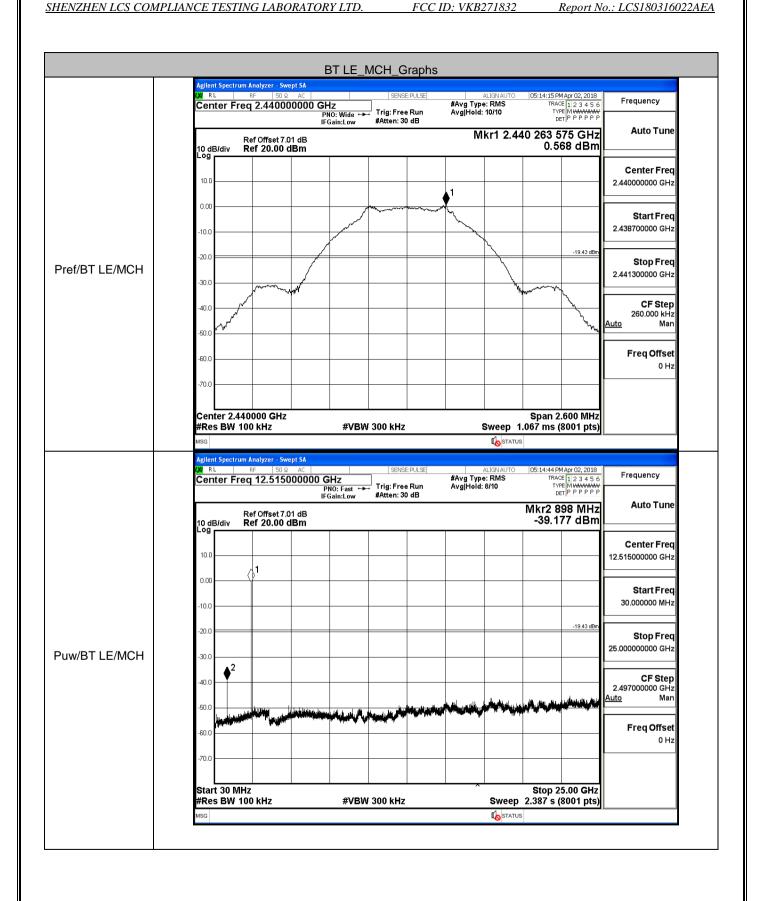


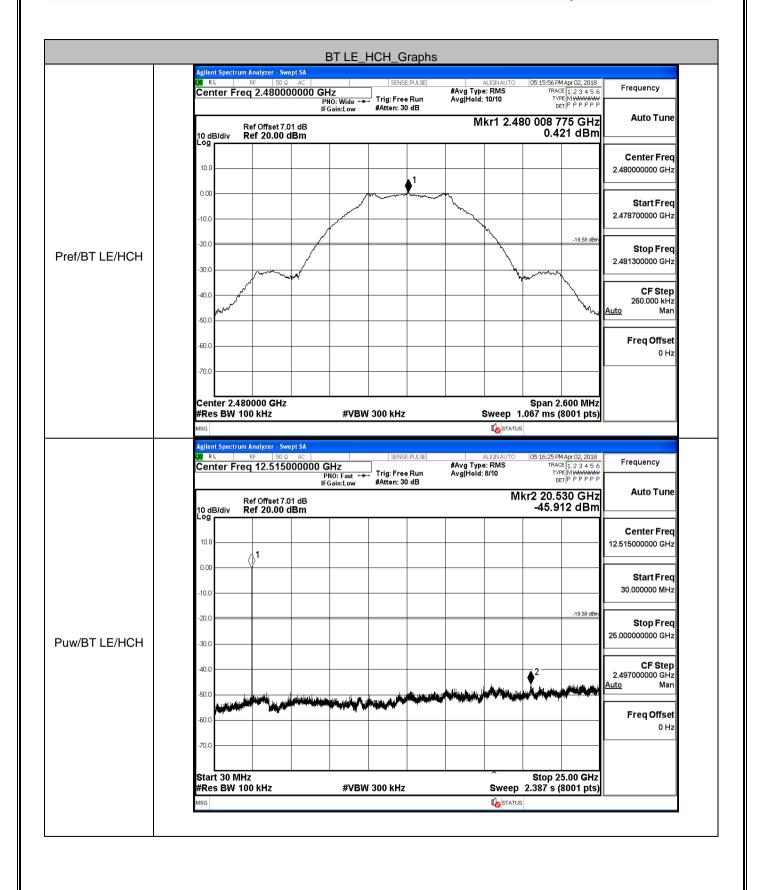


A.6 RF Conducted Spurious Emissions

Mode	Channel	Channel Pref [dBm] Max. Level [dBm]		Limit [dBm]	Verdict
BT LE	LCH	0.785	-45.169	-19.215	PASS
BT LE	мсн	0.568	-39.177	-19.432	PASS
BT LE	HCH	0.421	-45.912	-19.579	PASS

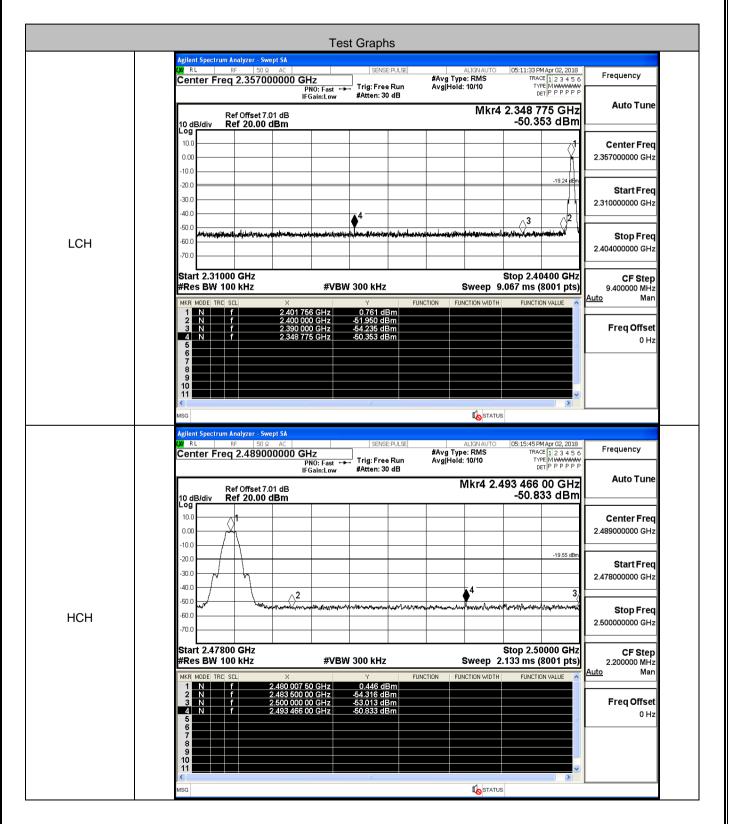






A.7 Band-edge for RF Conducted Emissions

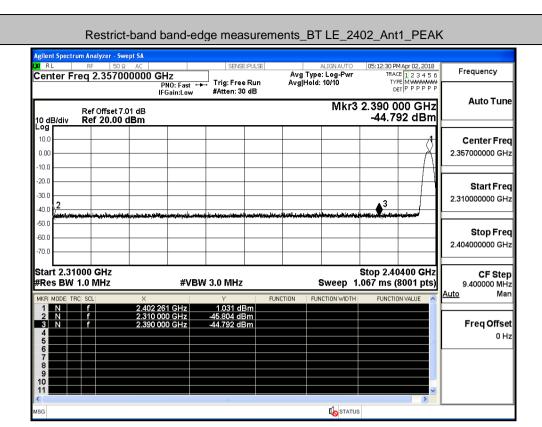
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.761	-50.353	-19.24	PASS
BT LE	HCH	0.446	-50.833	-19.55	PASS



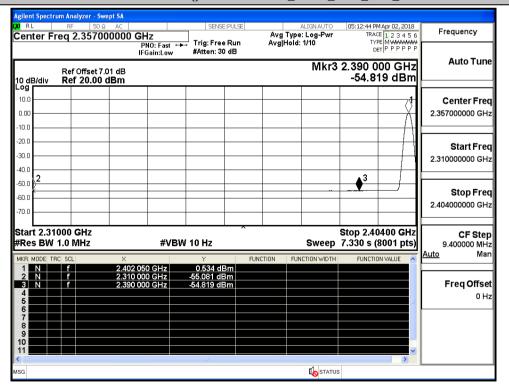
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A.8 Restrict-band band-edge measurements

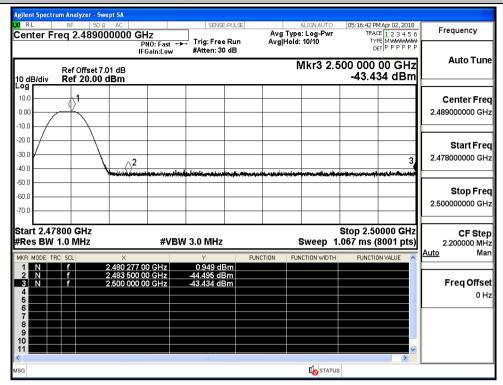
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
		Ant1	2310.0	-45.80	2.55	0	52.01	PEAK	74	PASS
	2402	Ant1	2310.0	-55.08	2.55	0	42.73	AV	54	PASS
		Ant1	2390.0	-44.79	2.55	0	53.02	PEAK	74	PASS
		Ant1	2390.0	-54.82	2.55	0	42.99	AV	54	PASS
BT LE		Ant1	2483.5	-44.50	2.55	0	53.31	PEAK	74	PASS
	2480	Ant1	2483.5	-54.47	2.55	0	43.34	AV	54	PASS
		Ant1	2500.0	-43.43	2.55	0	54.38	PEAK	74	PASS
		Ant1	2500.0	-54.48	2.55	0	43.33	AV	54	PASS



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

