Appendix Test Data for GSM (Conducted Measurement)

Product Name: Small flip phone

Trade Mark: /

Test Model: i17 Pro

FCC ID: 2BNQC-I17PRO

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: RF output power

Test Result

Band	UL Frequency (MHz)	Mode	Peak Power(dBm)	Average Power(dBm)	PAR(dB)	PAR Limit(dB)	AntGain (dBi)	ERP (dBm)	Power Limit(dBm)	Conclusion
850	824.2	Voice	31.1	30.75	0.35	13	0.3	28.90	38.45	Pass
850	836.6	Voice	31.03	30.72	0.31	13	0.3	28.87	38.45	Pass
850	848.8	Voice	31.14	30.82	0.32	13	0.3	28.97	38.45	Pass
850	824.2	GPRS 1Slot	30.79	30.48	0.31	13	0.3	28.63	38.45	Pass
850	836.6	GPRS 1Slot	30.86	30.51	0.36	13	0.3	28.66	38.45	Pass
850	848.8	GPRS 1Slot	30.89	30.53	0.35	13	0.3	28.68	38.45	Pass
850	824.2	GPRS 2Slots	30.54	30.23	0.32	13	0.3	28.38	38.45	Pass
850	836.6	GPRS 2Slots	30.67	30.33	0.34	13	0.3	28.48	38.45	Pass
850	848.8	GPRS 2Slots	30.47	30.13	0.33	13	0.3	28.28	38.45	Pass
850	824.2	GPRS 3Slots	29.44	29.1	0.34	13	0.3	27.25	38.45	Pass
850	836.6	GPRS 3Slots	29.5	29.12	0.38	13	0.3	27.27	38.45	Pass
850	848.8	GPRS 3Slots	29.33	28.95	0.38	13	0.3	27.1	38.45	Pass
850	824.2	GPRS 4Slots	28.12	27.8	0.32	13	0.3	25.95	38.45	Pass
850	836.6	GPRS 4Slots	28.44	28.13	0.31	13	0.3	26.28	38.45	Pass
850	848.8	GPRS 4Slots	28.38	27.99	0.4	13	0.3	26.14	38.45	Pass

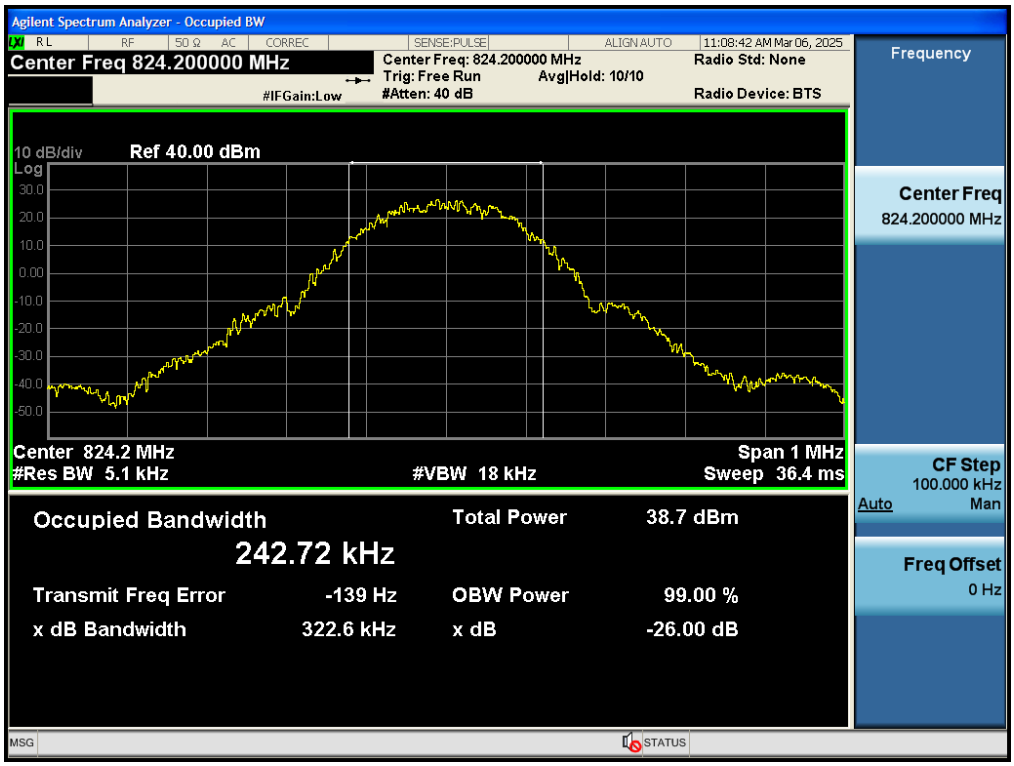
Band	UL Frequency (MHz)	Mode	Peak Power(dBm)	Average Power(dBm)	PAR(dB)	PAR Limit(dB)	AntGain (dBi)	EIRP (dBm)	Power Limit(dBm)	Conclusion
1900	1850.2	Voice	21.6	21.26	0.34	13	0.9	22.16	33	Pass
1900	1880	Voice	21.83	21.47	0.36	13	0.9	22.37	33	Pass
1900	1909.8	Voice	21.63	21.3	0.34	13	0.9	22.2	33	Pass
1900	1850.2	GPRS 1Slot	21.54	21.18	0.36	13	0.9	22.08	33	Pass
1900	1880	GPRS 1Slot	21.38	21.02	0.36	13	0.9	21.92	33	Pass
1900	1909.8	GPRS 1Slot	21.51	21.17	0.33	13	0.9	22.07	33	Pass
1900	1850.2	GPRS 2Slots	21.1	20.78	0.32	13	0.9	21.68	33	Pass
1900	1880	GPRS 2Slots	21.07	20.68	0.39	13	0.9	21.58	33	Pass
1900	1909.8	GPRS 2Slots	20.98	20.62	0.35	13	0.9	21.52	33	Pass
1900	1850.2	GPRS 3Slots	20.25	19.86	0.39	13	0.9	20.76	33	Pass
1900	1880	GPRS 3Slots	19.86	19.5	0.36	13	0.9	20.4	33	Pass
1900	1909.8	GPRS 3Slots	19.78	19.45	0.33	13	0.9	20.35	33	Pass
1900	1850.2	GPRS 4Slots	18.94	18.56	0.38	13	0.9	19.46	33	Pass
1900	1880	GPRS 4Slots	19.01	18.7	0.31	13	0.9	19.60	33	Pass
1900	1909.8	GPRS 4Slots	18.9	18.51	0.38	13	0.9	19.41	33	Pass

Appendix B: Occupied bandwidth

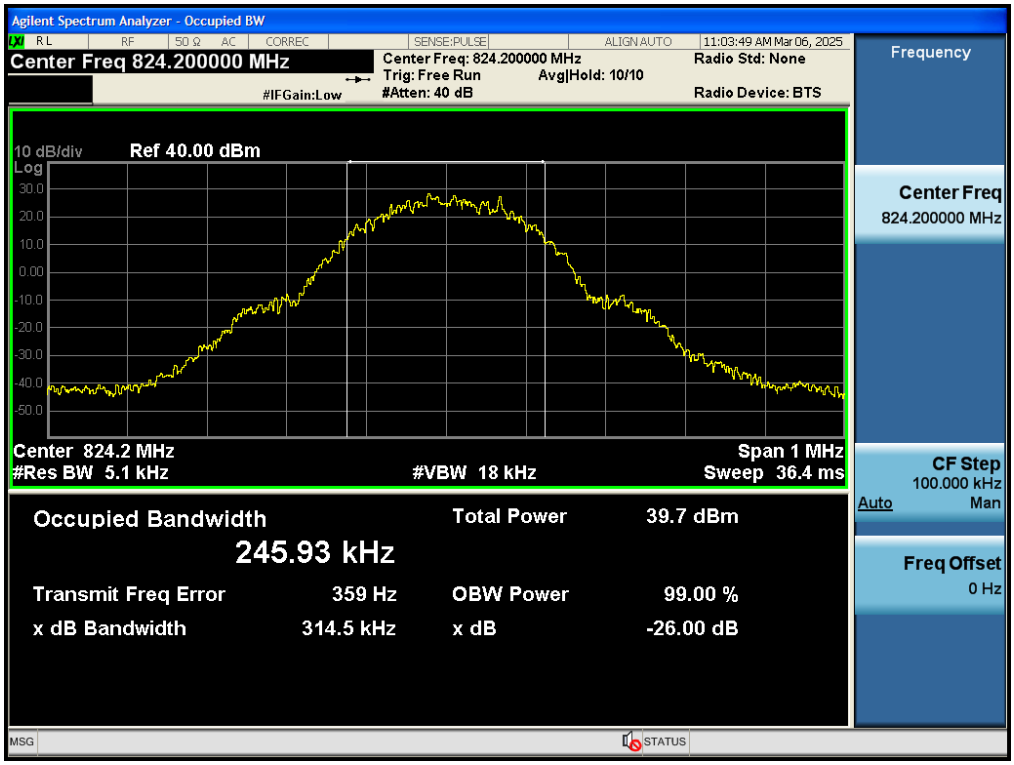
Test Result

Band	UL Frequency (MHz)	Mode	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
850	824.2	Voice	0.246	0.315	No limit
850	836.6	Voice	0.245	0.315	No limit
850	848.8	Voice	0.249	0.318	No limit
850	824.2	GPRS 1Slot	0.243	0.323	No limit
850	836.6	GPRS 1Slot	0.247	0.312	No limit
850	848.8	GPRS 1Slot	0.248	0.318	No limit
1900	1850.2	Voice	0.243	0.318	No limit
1900	1880	Voice	0.248	0.315	No limit
1900	1909.8	Voice	0.249	0.318	No limit
1900	1850.2	GPRS 1Slot	0.244	0.308	No limit
1900	1880	GPRS 1Slot	0.244	0.316	No limit
1900	1909.8	GPRS 1Slot	0.245	0.316	No limit

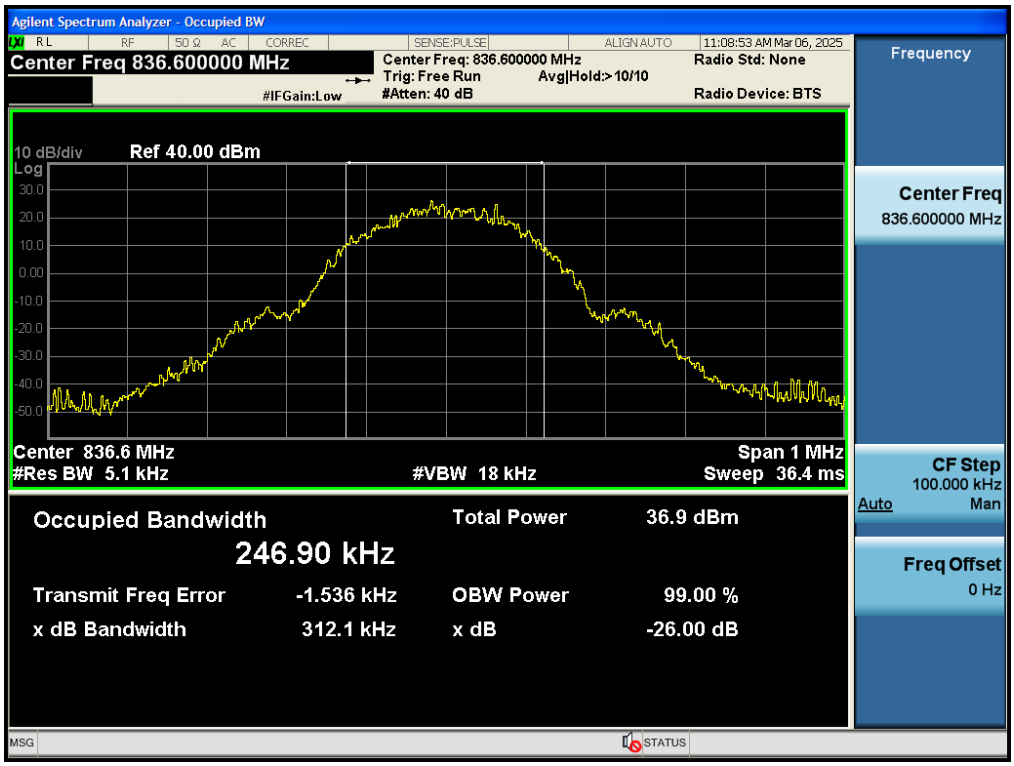
Test Graphs



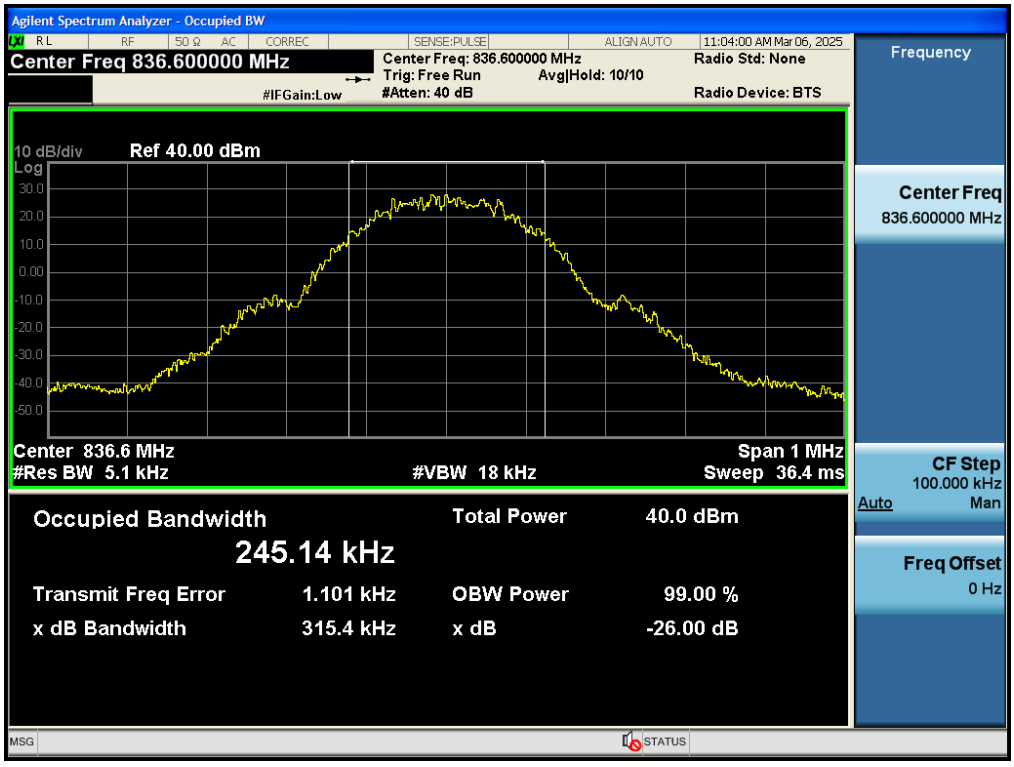
Test_Graph_band850_824.2MHz_GPRS 1Slot_OBW&EBW



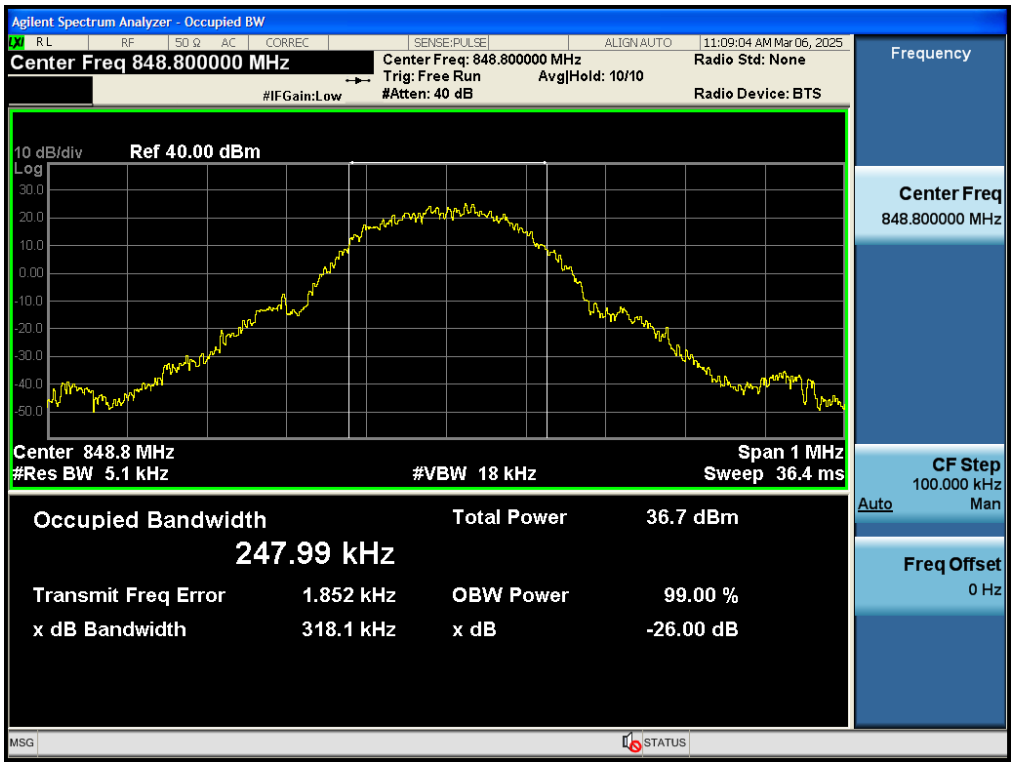
Test_Graph_band850_824.2MHz_Voice_OBW&EBW



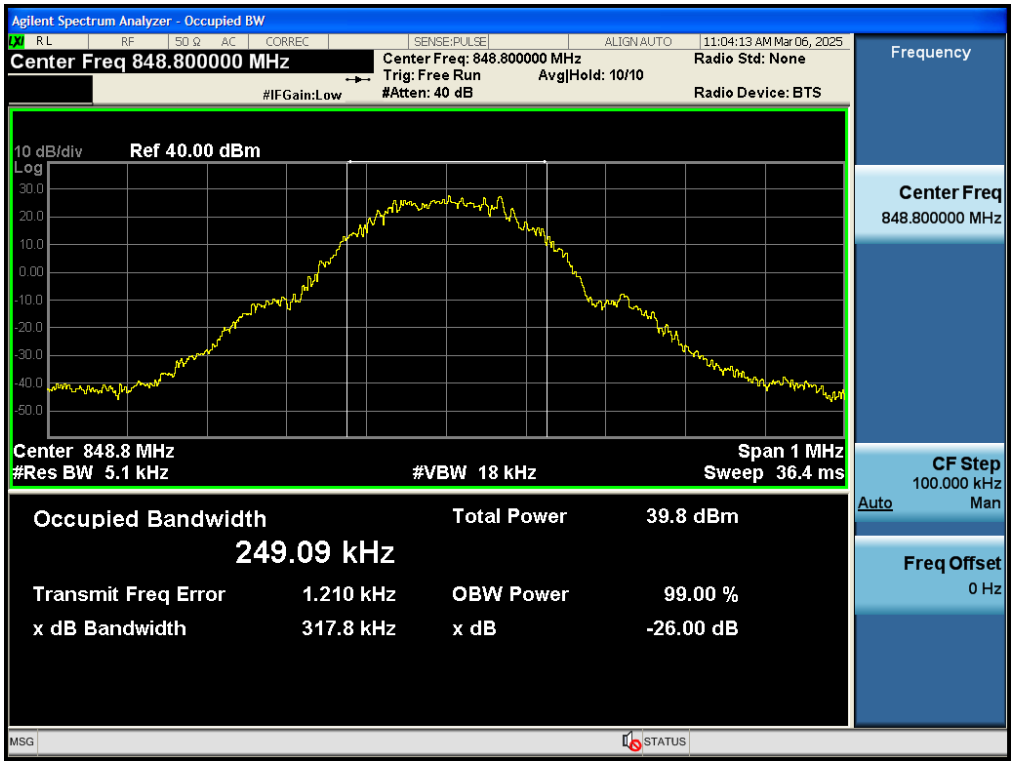
Test_Graph_band850_836.6MHz_GPRS 1Slot_OBW&EBW



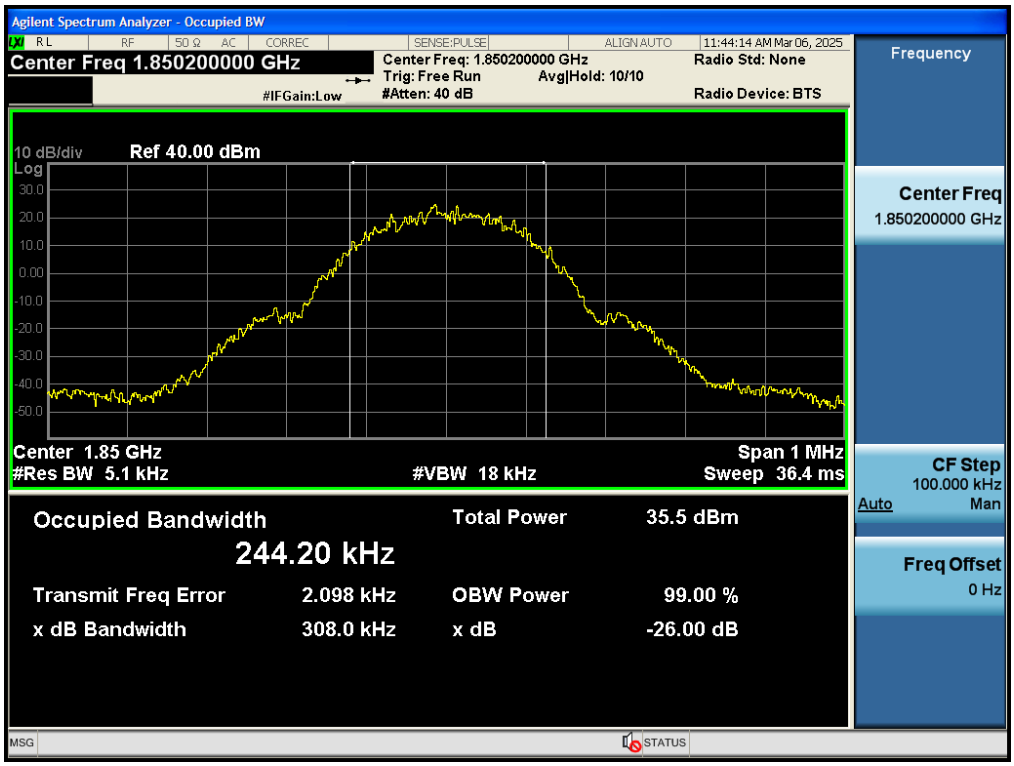
Test_Graph_band850_836.6MHz_Voice_OBW&EBW



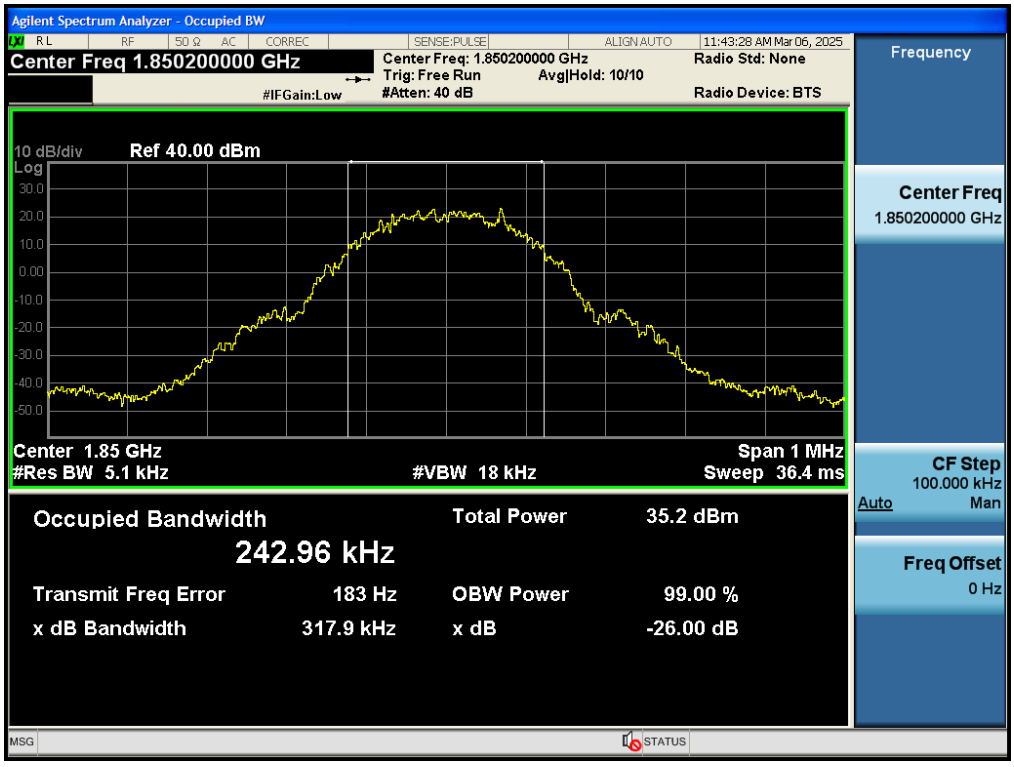
Test_Graph_band850_848.8MHz_GPRS 1Slot_OBW&EBW



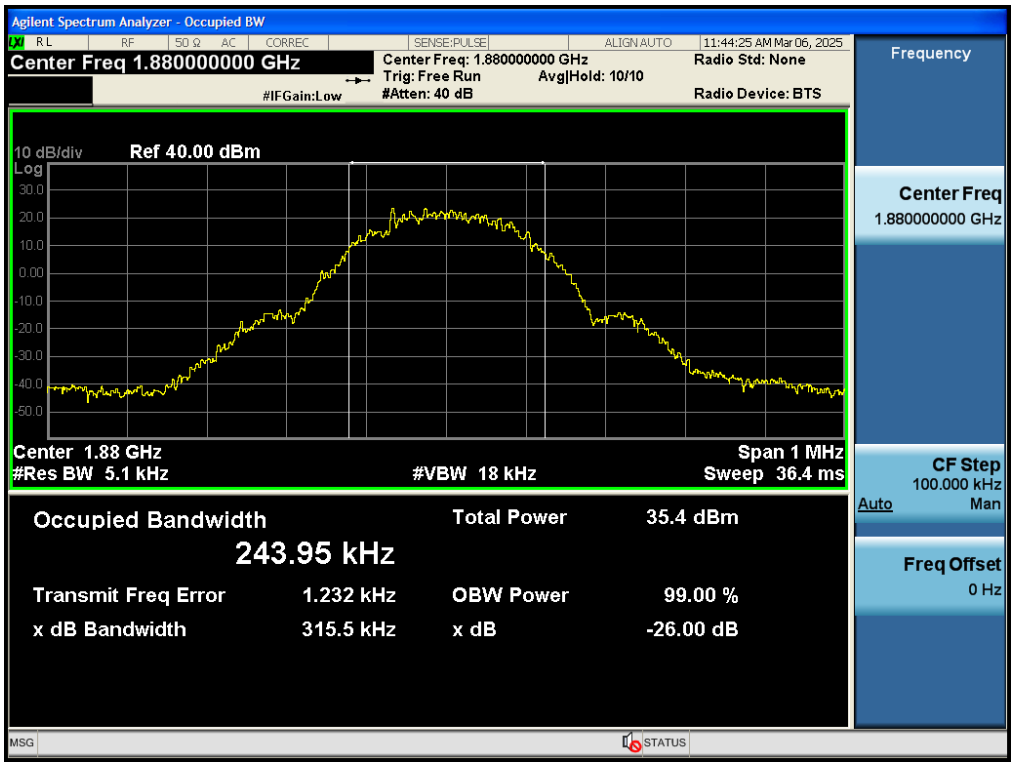
Test_Graph_band850_848.8MHz_Voice_OBW&EBW



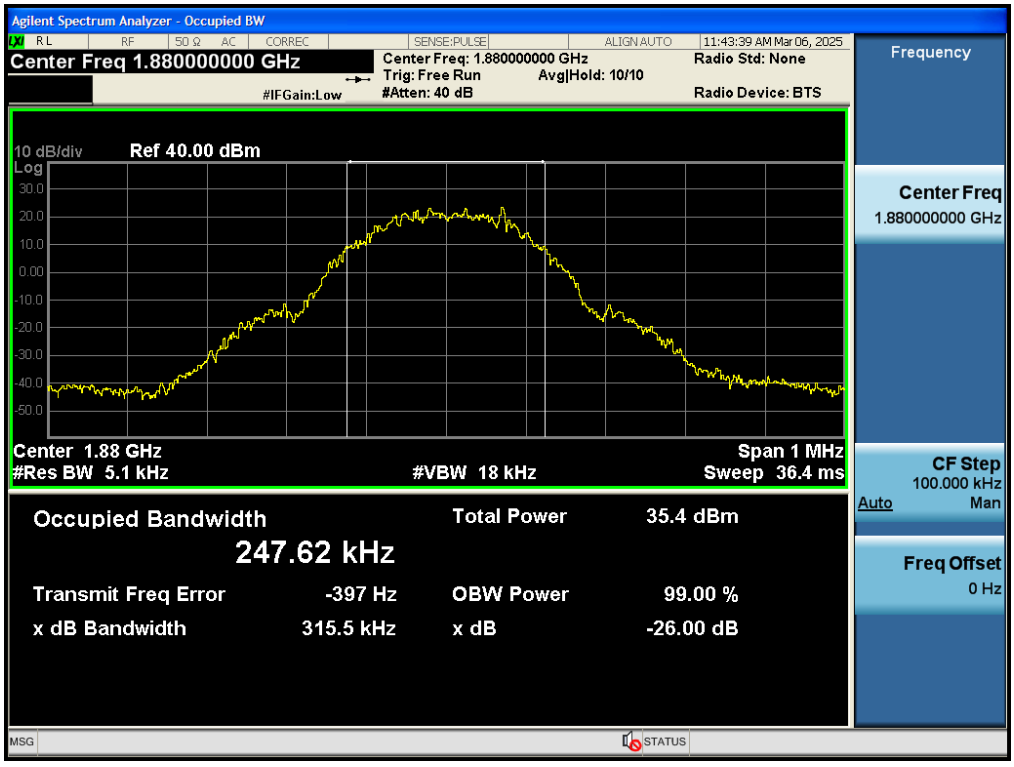
Test_Graph_band1900_1850.2MHz_GPRS 1Slot_OBW&EBW



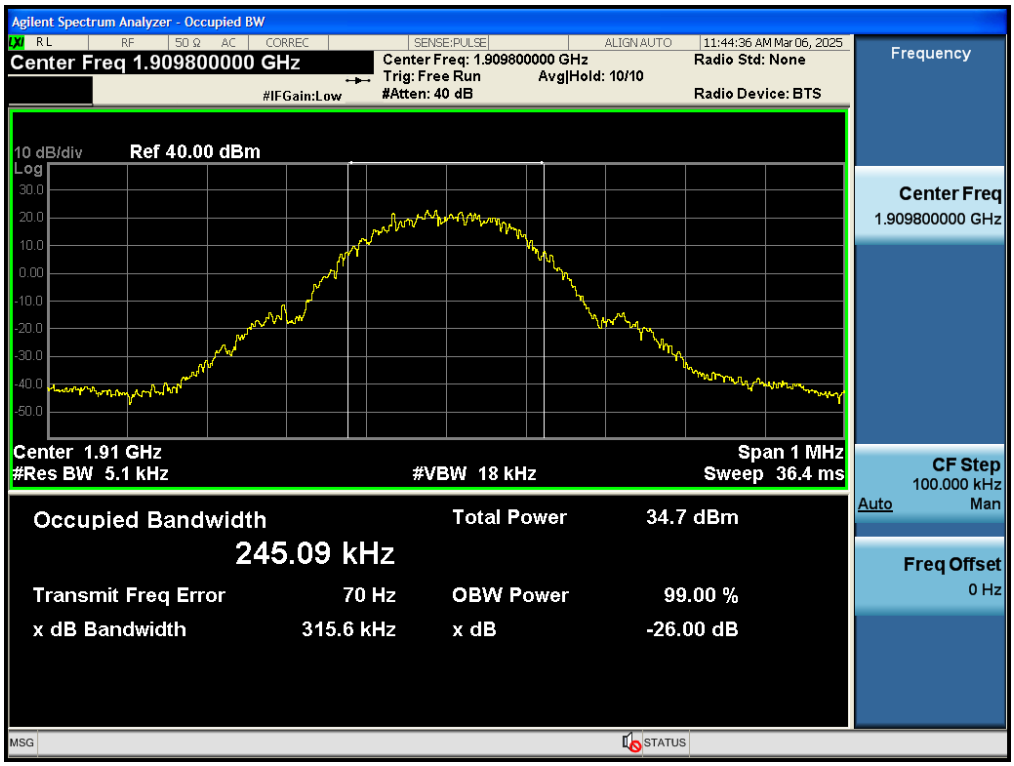
Test_Graph_band1900_1850.2MHz_Voice_OBW&EBW



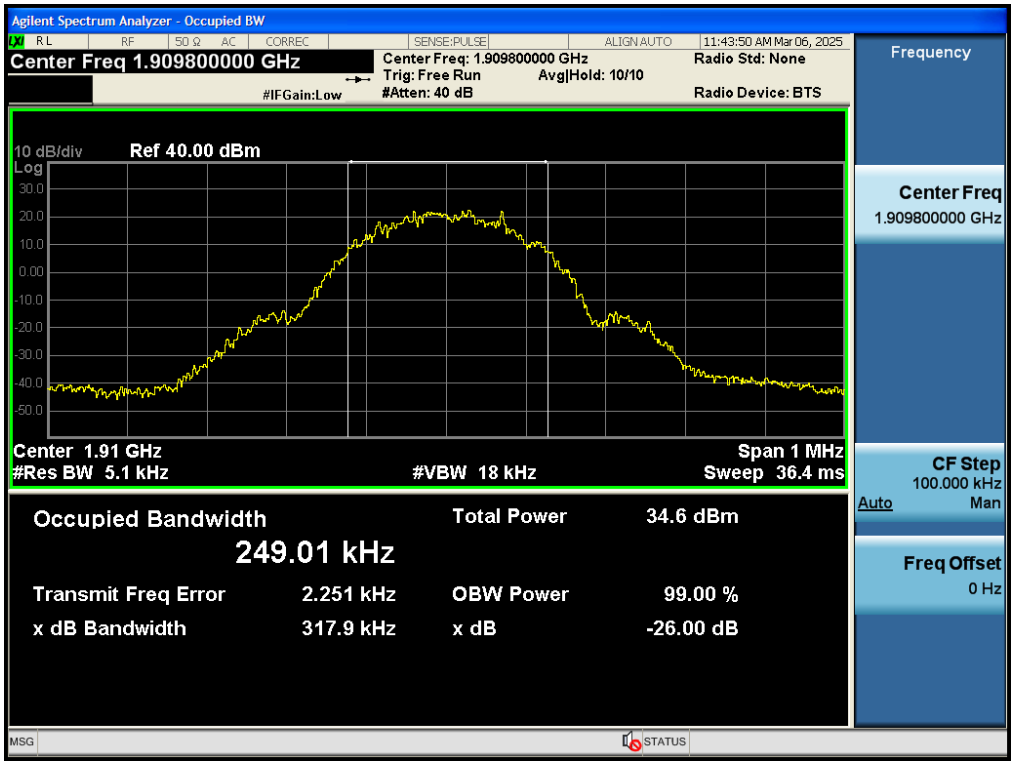
Test_Graph_band1900_1880MHz_GPRS 1Slot_OBW&EBW



Test_Graph_band1900_1880MHz_Voice_OBW&EBW



Test_Graph_band1900_1909.8MHz_GPRS 1Slot_OBW&EBW



Test_Graph_band1900_1909.8MHz_Voice_OBW&EBW

Appendix C: Band edge emissions

Test Result

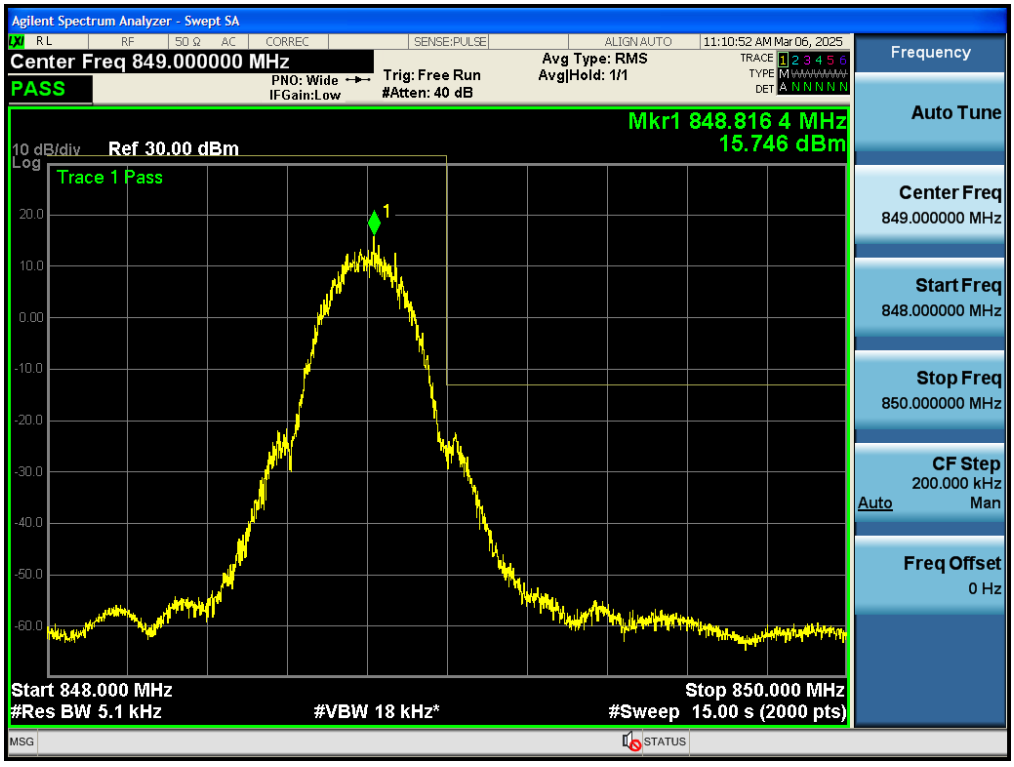
Band	UL Frequency (MHz)	Mode	Conclusion
850	824.2	Voice	Pass
850	848.8	Voice	Pass
850	824.2	GPRS 1Slot	Pass
850	848.8	GPRS 1Slot	Pass
1900	1850.2	Voice	Pass
1900	1909.8	Voice	Pass
1900	1850.2	GPRS 1Slot	Pass
1900	1909.8	GPRS 1Slot	Pass

Test Graphs

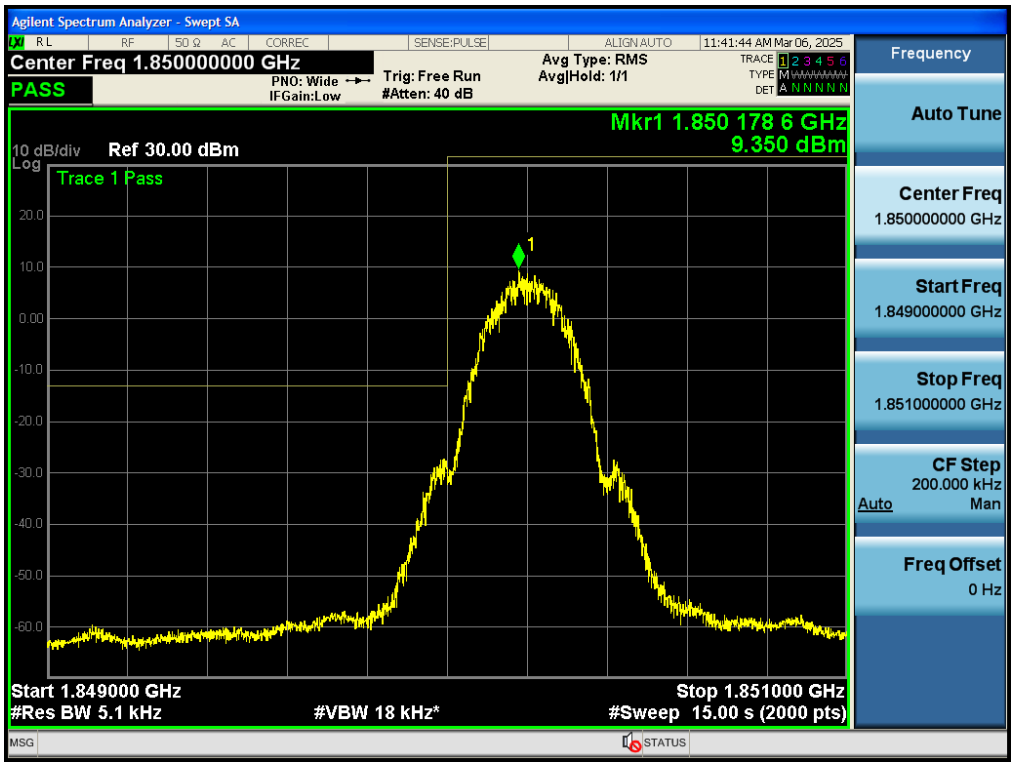
Test_Graph_band850_824.2MHz_GPRS 1Slot_Band edge

Test_Graph_band850_824.2MHz_Voice_Band edge

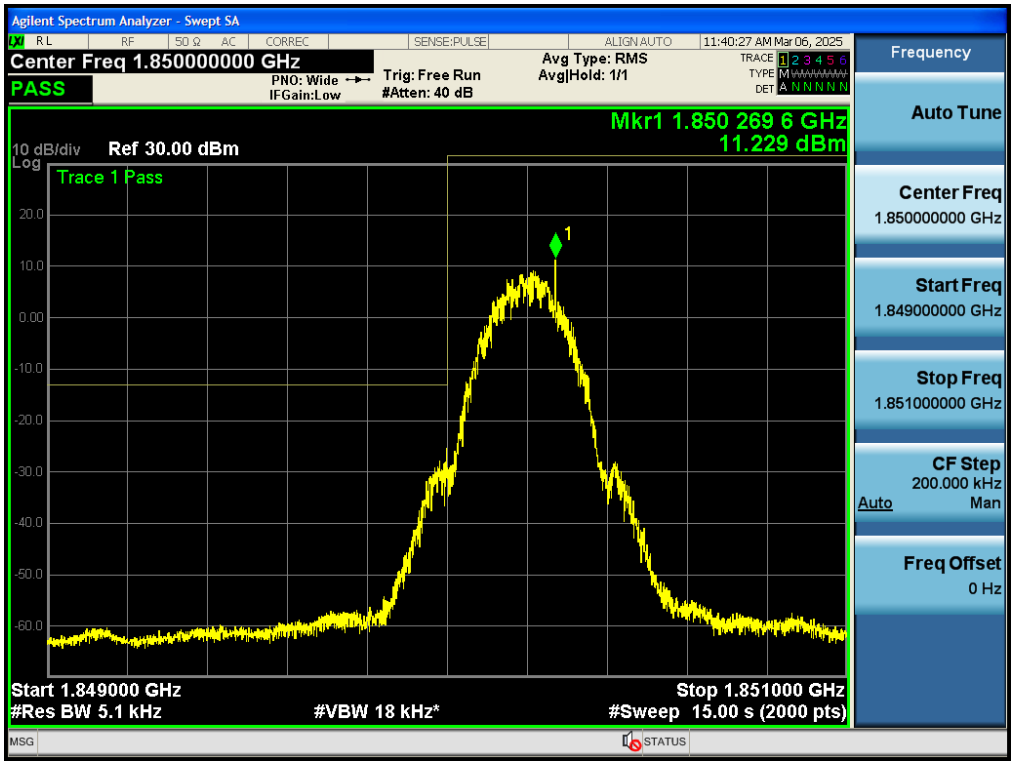
Test_Graph_band850_848.8MHz_GPRS 1Slot_Band edge



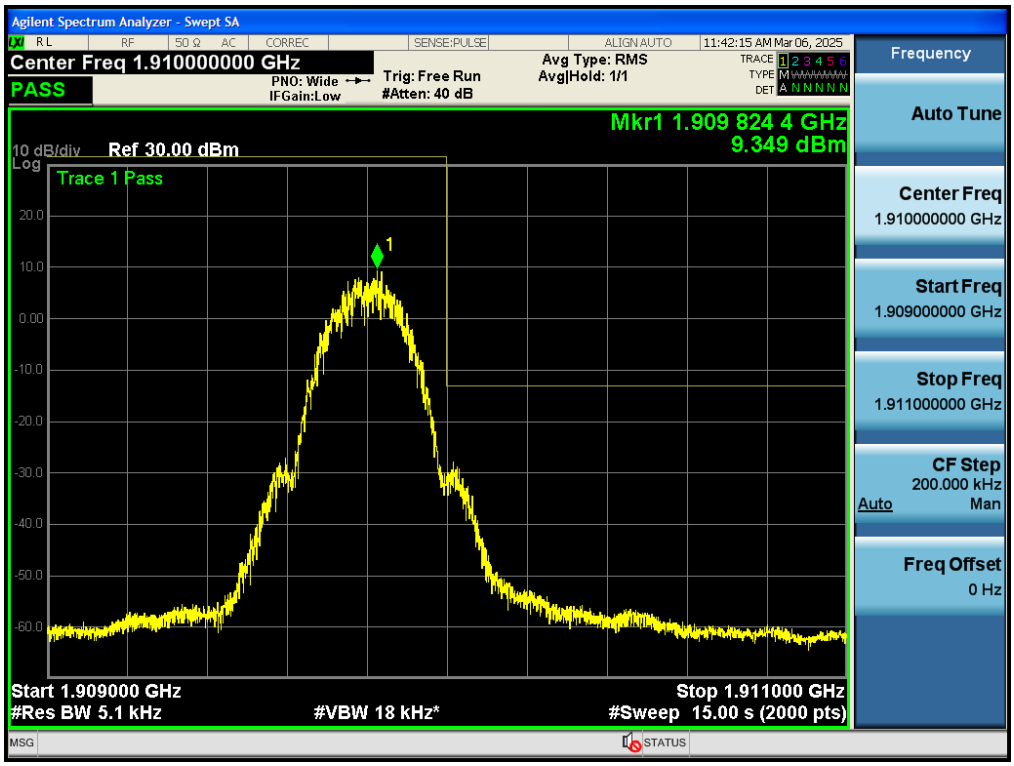
Test_Graph_band850_848.8MHz_Voice_Band edge



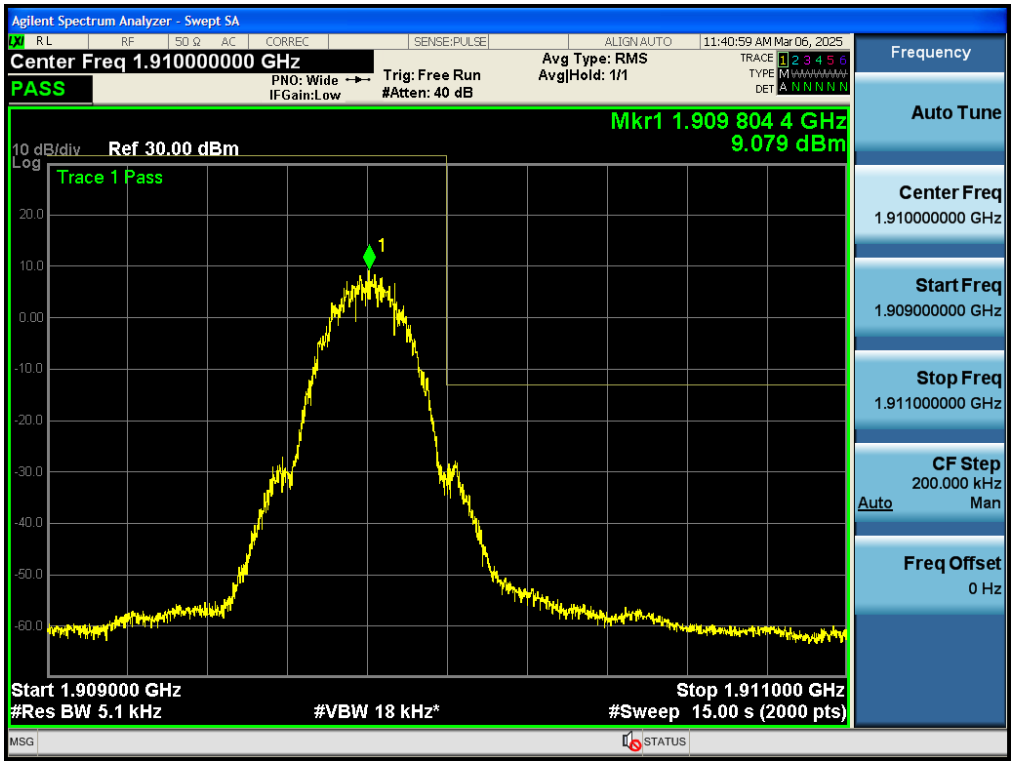
Test_Graph_band1900_1850.2MHz_GPRS 1Slot_Band edge



Test_Graph_band1900_1850.2MHz_Voice_Band edge



Test_Graph_band1900_1909.8MHz_GPRS 1Slot_Band edge



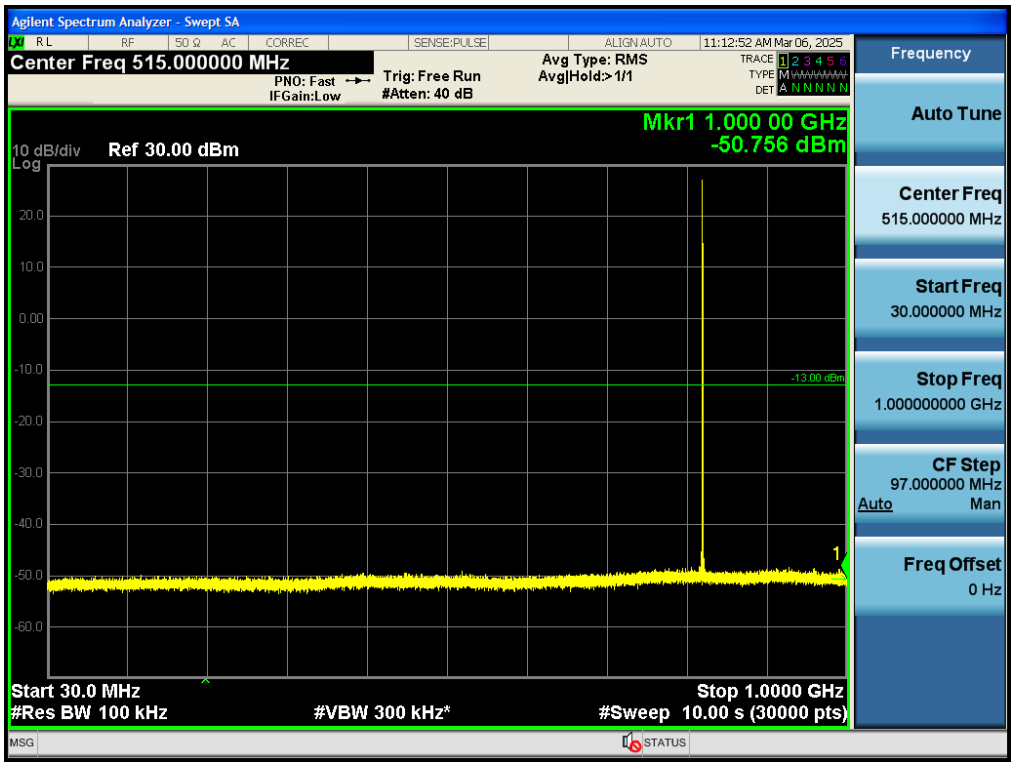
Test_Graph_band1900_1909.8MHz_Voice_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

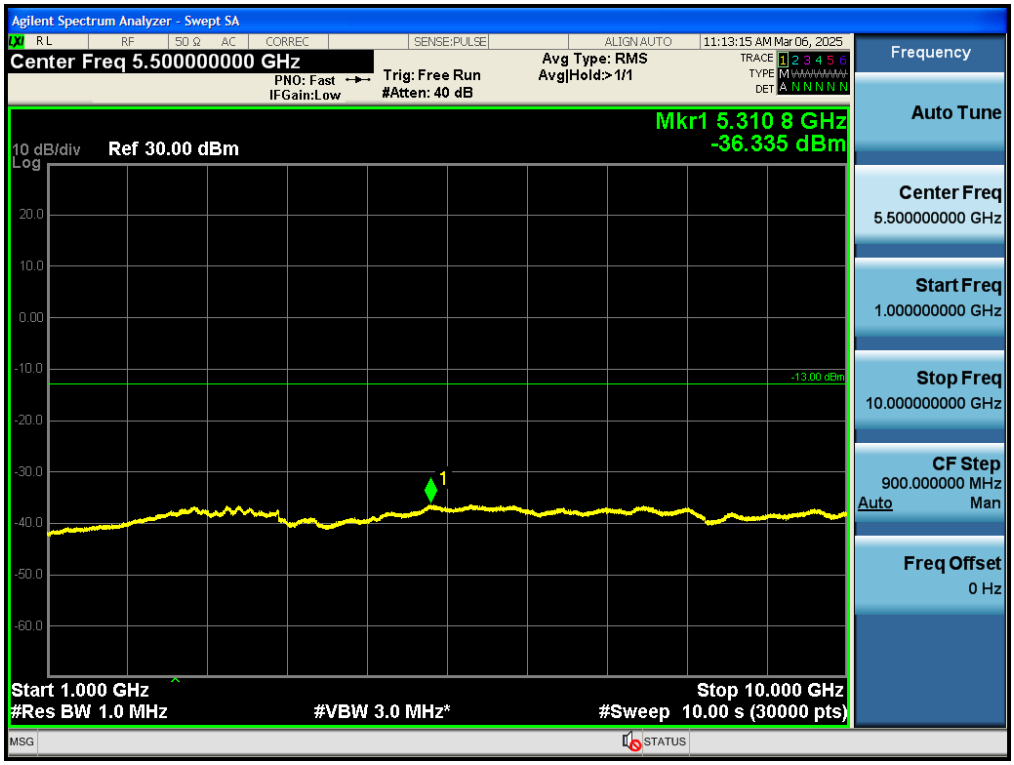
Test Result

Band	UL Frequency (MHz)	Mode	Conclusion
850	824.2	Voice	Pass
850	836.6	Voice	Pass
850	848.8	Voice	Pass
850	824.2	GPRS 1Slot	Pass
850	836.6	GPRS 1Slot	Pass
850	848.8	GPRS 1Slot	Pass
1900	1850.2	Voice	Pass
1900	1880	Voice	Pass
1900	1909.8	Voice	Pass
1900	1850.2	GPRS 1Slot	Pass
1900	1880	GPRS 1Slot	Pass
1900	1909.8	GPRS 1Slot	Pass

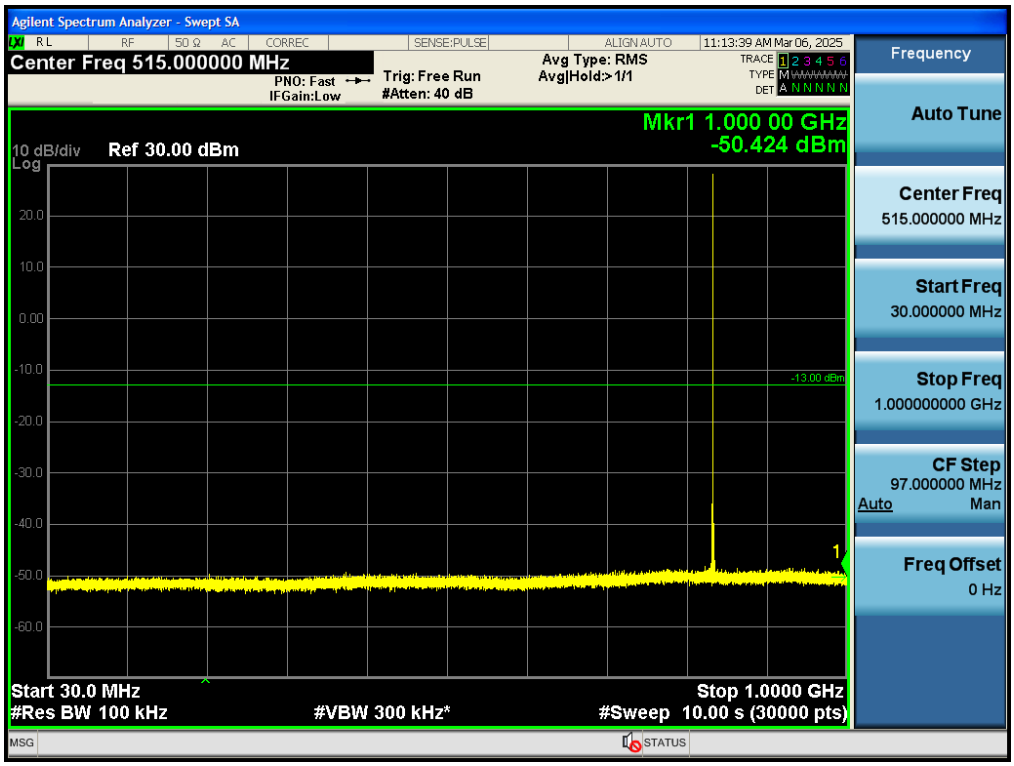
Test Graphs



Test_Graph_band850_824.2MHz_Voice_30M_1G_TX

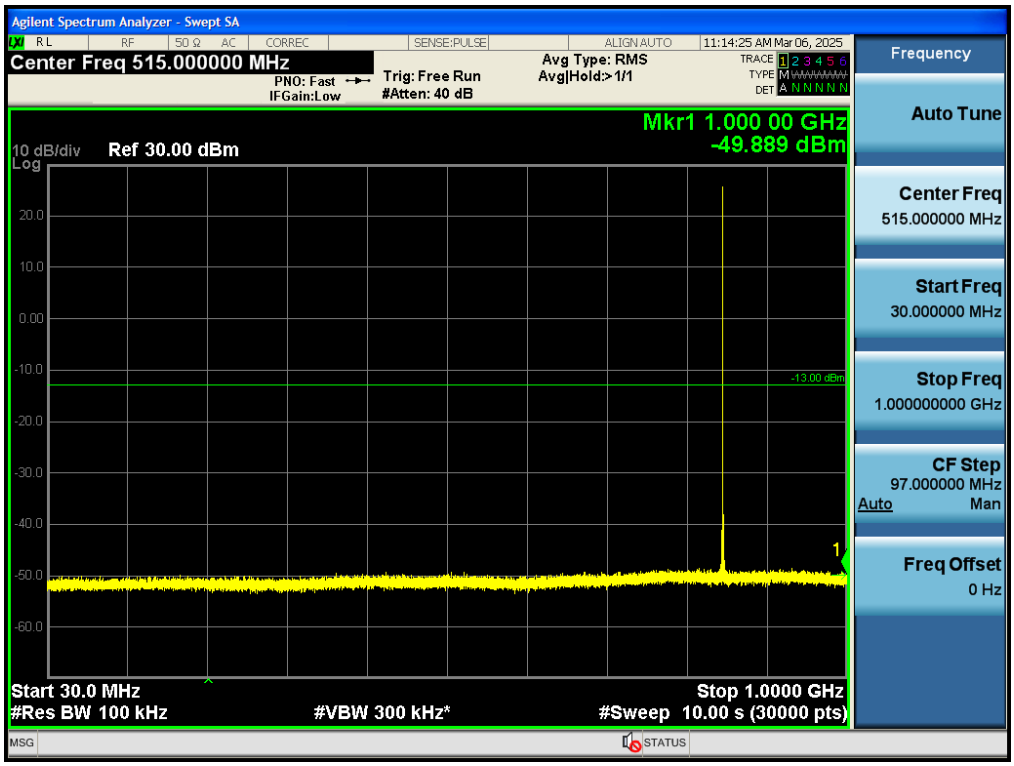


Test_Graph_band850_824.2MHz_Voice_1G_10G_TX



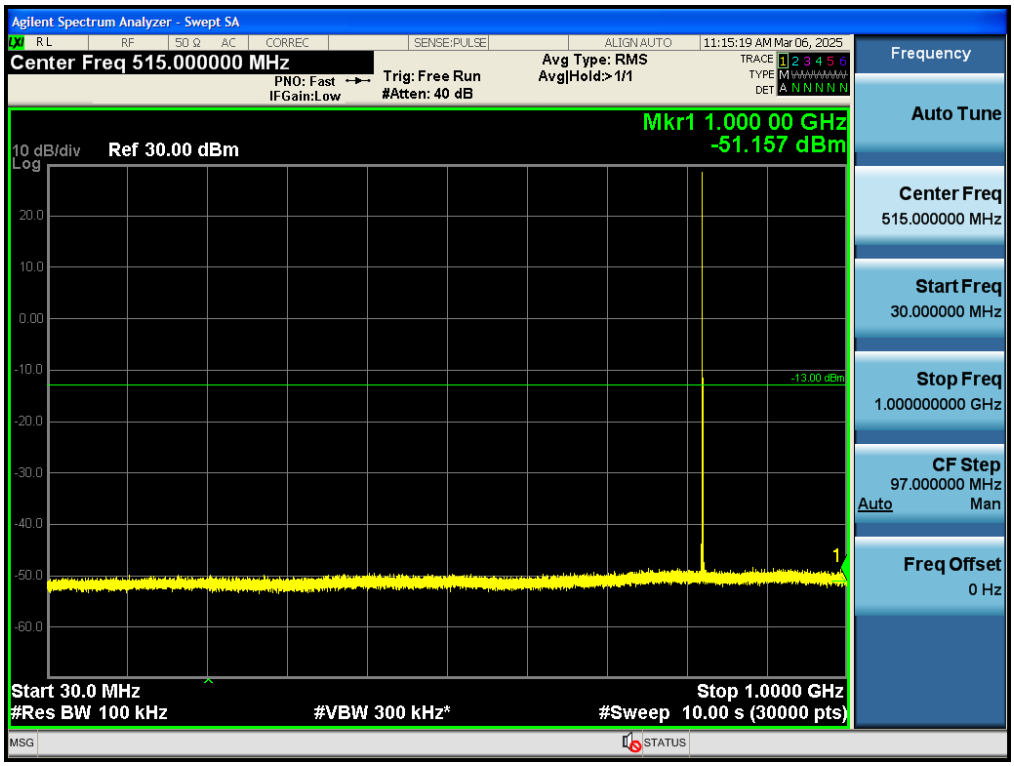
Test_Graph_band850_836.6MHz_Voice_30M_1G_TX

Test_Graph_band850_836.6MHz_Voice_1G_10G_TX



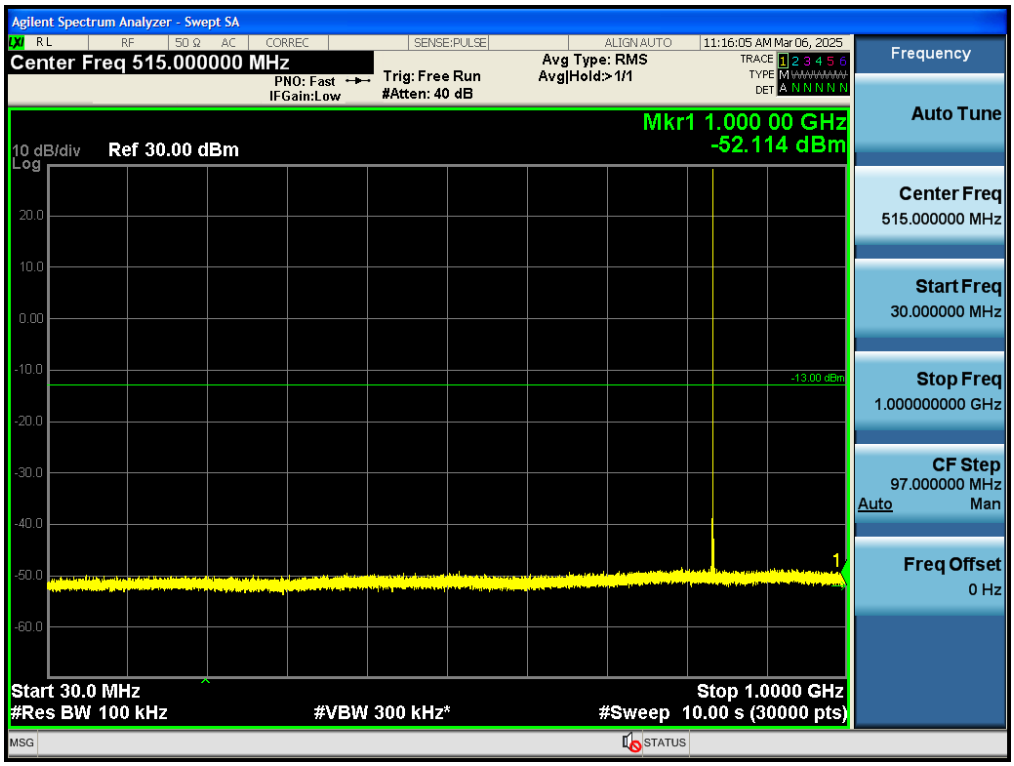
Test_Graph_band850_848.8MHz_Voice_30M_1G_TX

Test_Graph_band850_848.8MHz_Voice_1G_10G_TX



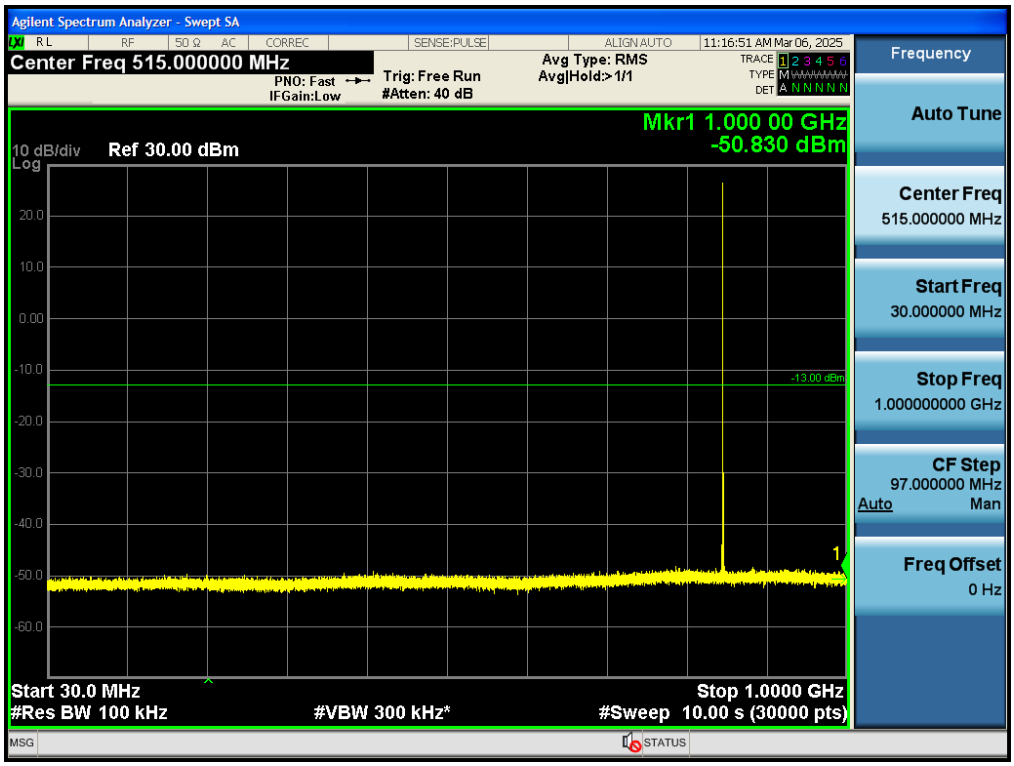
Test_Graph_band850_824.2MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band850_824.2MHz_GPRS 1Slot_1G_10G_TX



Test_Graph_band850_836.6MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band850_836.6MHz_GPRS 1Slot_1G_10G_TX



Test_Graph_band850_848.8MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band850_848.8MHz_GPRS 1Slot_1G_10G_TX

Test_Graph_band1900_1850.2MHz_Voice_30M_1G_TX

Test_Graph_band1900_1850.2MHz_Voice_1G_10G_TX

Test_Graph_band1900_1850.2MHz_Voice_10G_20G_TX

Test_Graph_band1900_1880MHz_Voice_30M_1G_TX

Test_Graph_band1900_1880MHz_Voice_1G_10G_TX

Test_Graph_band1900_1880MHz_Voice_10G_20G_TX

Test_Graph_band1900_1909.8MHz_Voice_30M_1G_TX

Test_Graph_band1900_1909.8MHz_Voice_1G_10G_TX

Test_Graph_band1900_1909.8MHz_Voice_10G_20G_TX

Test_Graph_band1900_1850.2MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band1900_1850.2MHz_GPRS 1Slot_1G_10G_TX

Test_Graph_band1900_1850.2MHz_GPRS 1Slot_10G_20G_TX

Test_Graph_band1900_1880MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band1900_1880MHz_GPRS 1Slot_1G_10G_TX

Test_Graph_band1900_1880MHz_GPRS 1Slot_10G_20G_TX

Test_Graph_band1900_1909.8MHz_GPRS 1Slot_30M_1G_TX

Test_Graph_band1900_1909.8MHz_GPRS 1Slot_1G_10G_TX

Test_Graph_band1900_1909.8MHz_GPRS 1Slot_10G_20G_TX

Appendix E: Frequency stability

Test Result

Test Conditions		GSM Band 850/ Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	Voice	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0676	PASS
40	Normal Voltage	0.0372	
30	Normal Voltage	0.0198	
20(Ref.)	Normal Voltage	0.0313	
10	Normal Voltage	0.0618	
0	Normal Voltage	0.0243	
-10	Normal Voltage	0.0511	
-20	Normal Voltage	0.0408	
-30	Normal Voltage	0.0305	
20	Maximum Voltage	0.0258	
20	Normal Voltage	0.0338	
20	Battery End Point	0.0644	

Test Conditions		GSM Band 1900/ Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	Voice	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0749	PASS
40	Normal Voltage	0.0355	
30	Normal Voltage	0.0257	
20(Ref.)	Normal Voltage	0.0284	
10	Normal Voltage	0.0689	
0	Normal Voltage	0.0203	
-10	Normal Voltage	0.0553	
-20	Normal Voltage	0.0387	
-30	Normal Voltage	0.0251	
20	Maximum Voltage	0.0204	
20	Normal Voltage	0.0318	
20	Battery End Point	0.0617	