1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	31.31	0.16	29.32	<=38.45	Pass
			836.6	31.22	0.16	29.23	<=38.45	Pass
			848.8	30.97	0.16	28.98	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (℃)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.27	-9.847	-0.0119	-2.5 to 2.5	Pass
			3.85	0.710	0.0009	-2.5 to 2.5	Pass
			4.43	-3.099	-0.0038	-2.5 to 2.5	Pass
		-30	3.85	2.195	0.0027	-2.5 to 2.5	Pass
		-20	3.85	-8.007	-0.0097	-2.5 to 2.5	Pass
		-10	3.85	-2.551	-0.0031	-2.5 to 2.5	Pass
		0	3.85	-5.101	-0.0062	-2.5 to 2.5	Pass
		10	3.85	9.298	0.0113	-2.5 to 2.5	Pass
		30	3.85	-4.100	-0.0050	-2.5 to 2.5	Pass
		40	3.85	-4.972	-0.0060	-2.5 to 2.5	Pass
		50	3.85	3.648	0.0044	-2.5 to 2.5	Pass
	836.6	20	3.27	-9.460	-0.0113	-2.5 to 2.5	Pass
			3.85	-1.195	-0.0014	-2.5 to 2.5	Pass
			4.43	11.817	0.0141	-2.5 to 2.5	Pass
		-30	3.85	6.037	0.0072	-2.5 to 2.5	Pass
		-20	3.85	9.879	0.0118	-2.5 to 2.5	Pass
		-10	3.85	-3.390	-0.0041	-2.5 to 2.5	Pass
		0	3.85	6.005	0.0072	-2.5 to 2.5	Pass
		10	3.85	5.392	0.0064	-2.5 to 2.5	Pass
		30	3.85	8.459	0.0101	-2.5 to 2.5	Pass
		40	3.85	3.713	0.0044	-2.5 to 2.5	Pass
		50	3.85	2.551	0.0030	-2.5 to 2.5	Pass
	848.8	20	3.27	6.683	0.0079	-2.5 to 2.5	Pass
			3.85	4.133	0.0049	-2.5 to 2.5	Pass
			4.43	7.393	0.0087	-2.5 to 2.5	Pass
		-30	3.85	7.232	0.0085	-2.5 to 2.5	Pass
		-20	3.85	4.778	0.0056	-2.5 to 2.5	Pass

		-10	3.85	3.455	0.0041	-2.5 to 2.5	Pass
		0	3.85	5.295	0.0062	-2.5 to 2.5	Pass
		10	3.85	8.007	0.0094	-2.5 to 2.5	Pass
		30	3.85	7.071	0.0083	-2.5 to 2.5	Pass
		40	3.85	6.619	0.0078	-2.5 to 2.5	Pass
		50	3.85	6.489	0.0076	-2.5 to 2.5	Pass

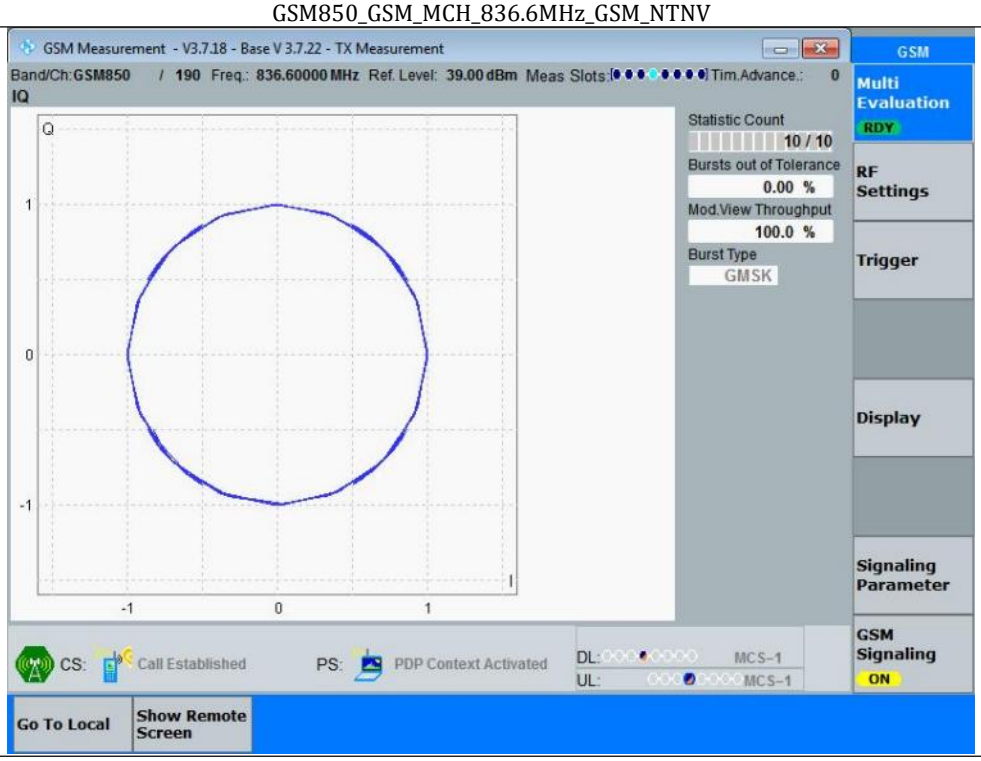
3. Modulation Characteristics

3.1 GSM850

3.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	836.6	Refer To Test Graph		Pass

3.1.2 Test Graph

GSM850_GSM_MCH_836.6MHz_GSM_NTNV


4. 99% & 26dB Bandwidth

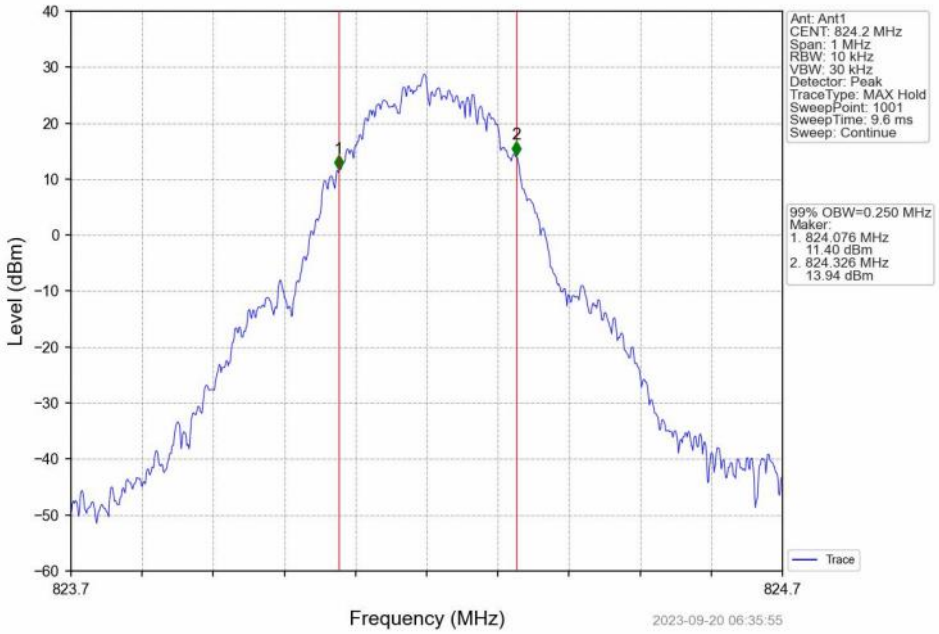
4.1 GSM850_OBW

4.1.1 Test Result

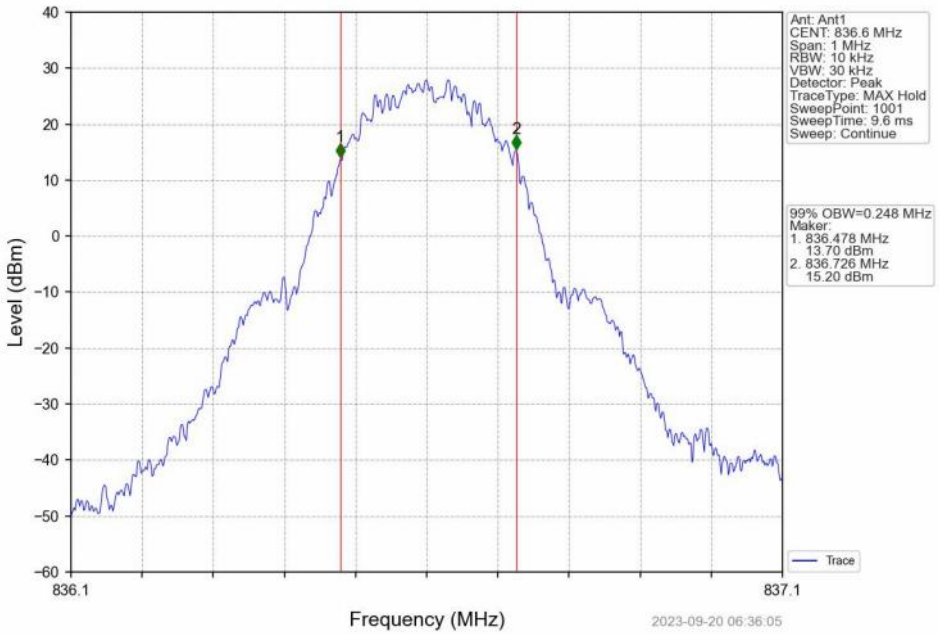
Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.250	Pass
			836.6	0.248	Pass
			848.8	0.244	Pass

4.1.2 Test Graph

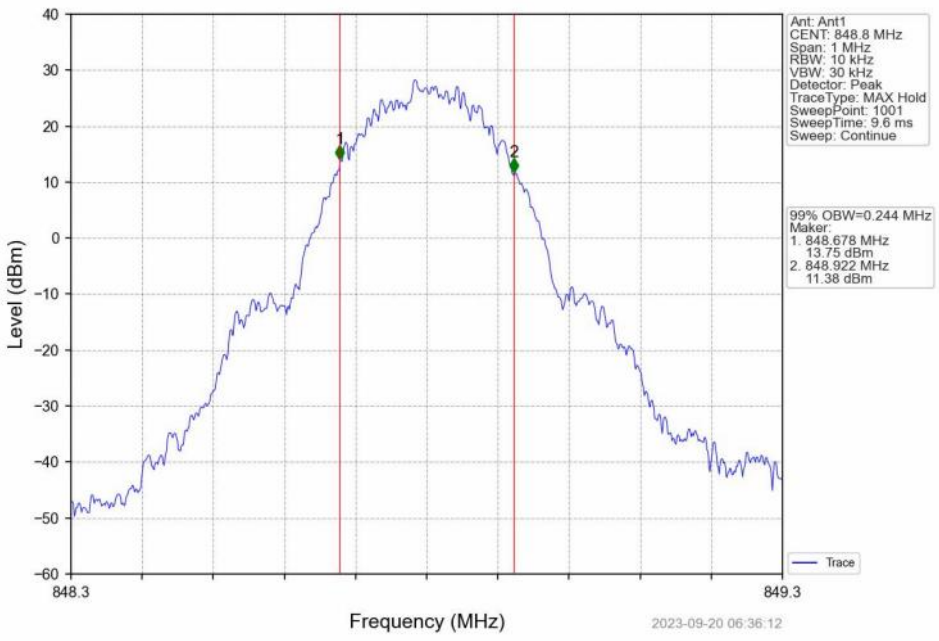
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV



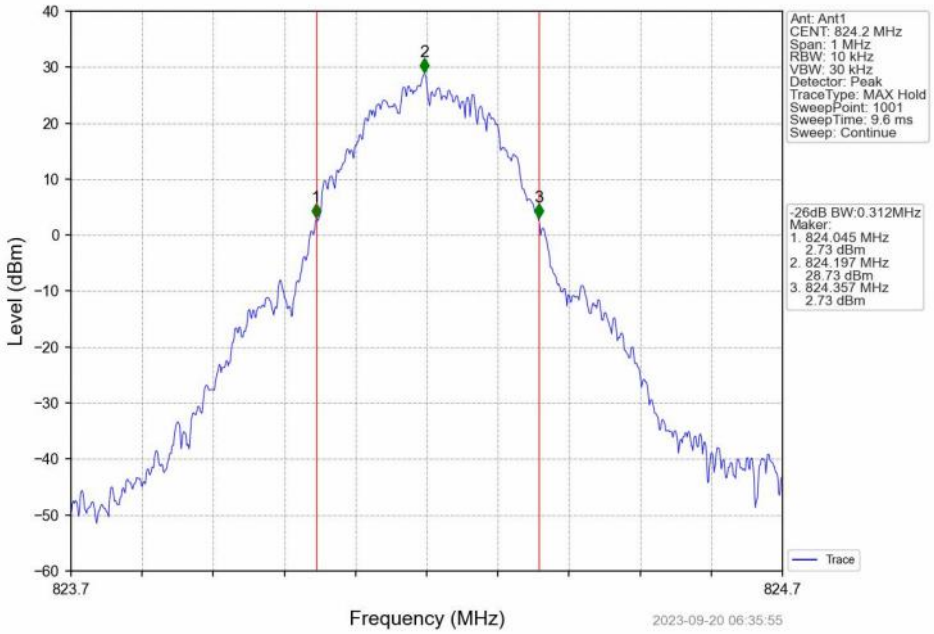
4.2 GSM850_XDB

4.2.1 Test Result

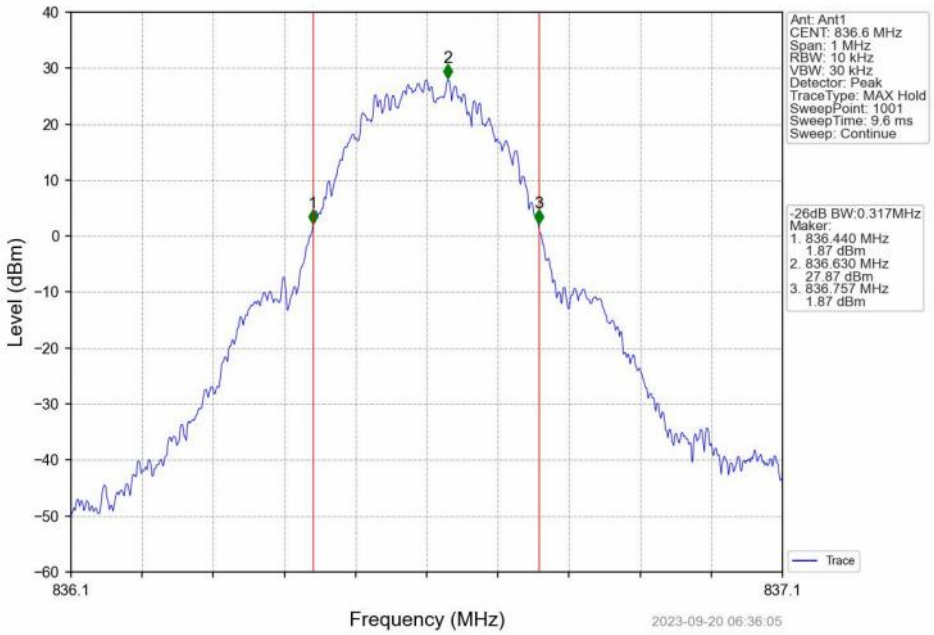
Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.312	Pass
			836.6	0.317	Pass
			848.8	0.312	Pass

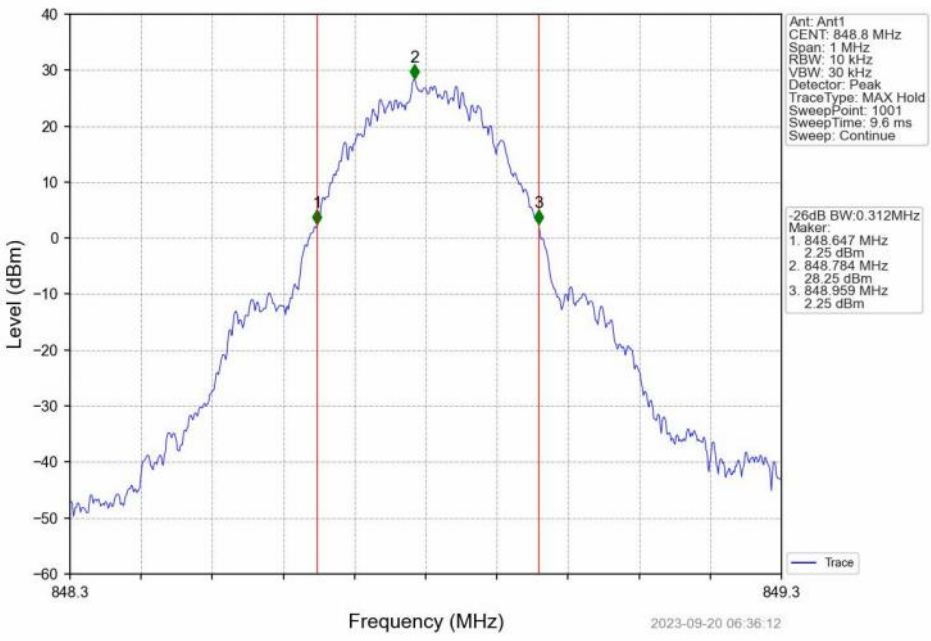
4.2.2 Test Graph

GSM850_GSM_LCH_824.2MHz_GSM_NTNV



GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV


5. Peak-Average Ratio

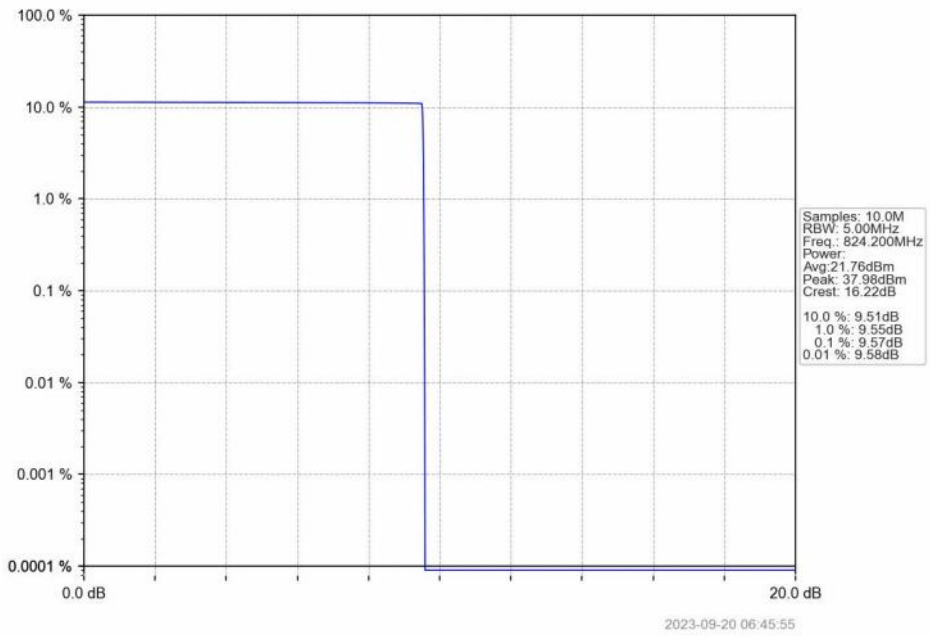
5.1 GSM850

5.1.1 Test Result

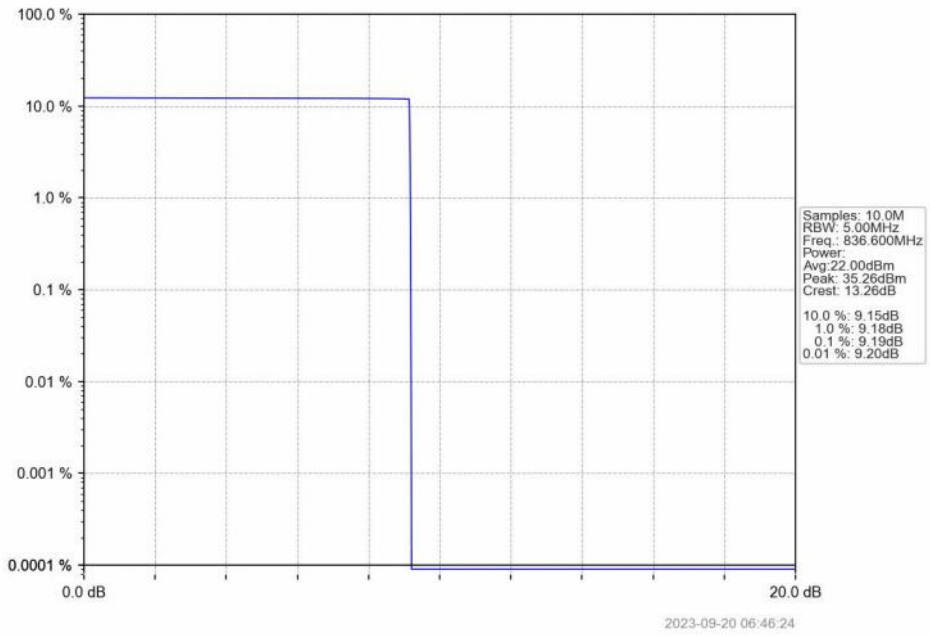
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.57	<=13	Pass
			836.6	9.19	<=13	Pass
			848.8	9.20	<=13	Pass

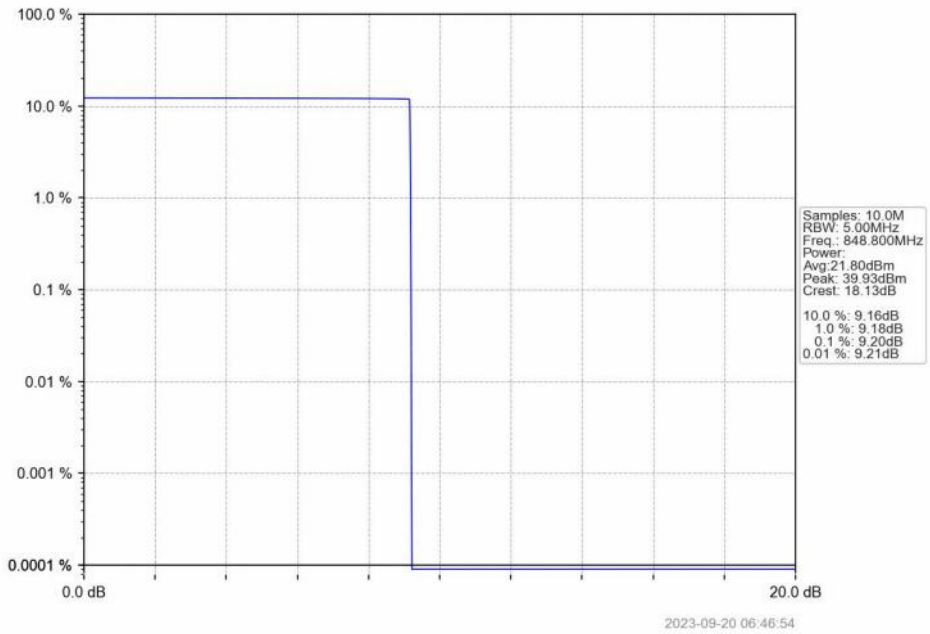
5.1.2 Test Graph

GSM850_GSM_LCH_824.2MHz_GSM_NTNV



GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV


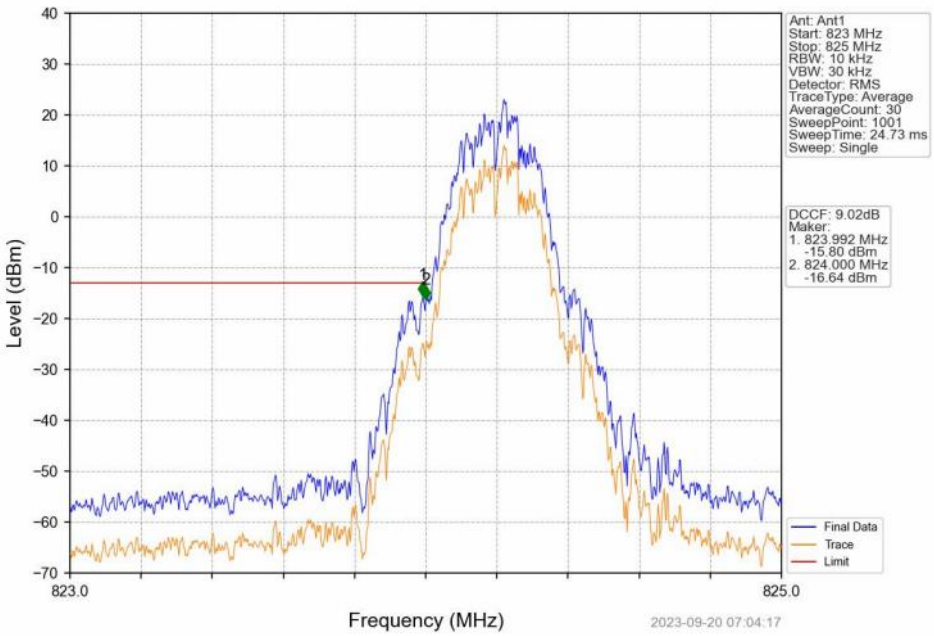
6. Spurious Emission

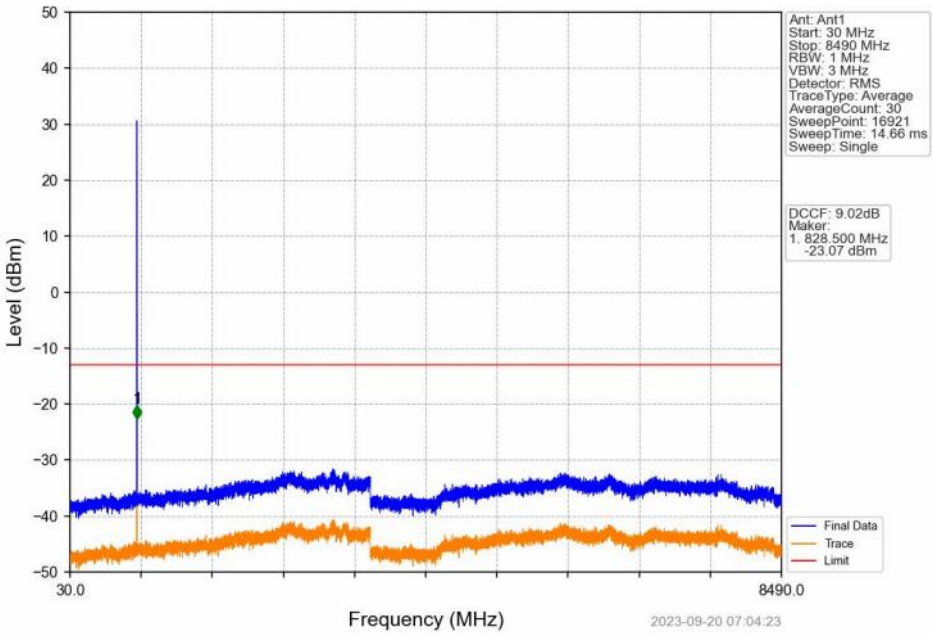
6.1 GSM850

6.1.1 Test Result

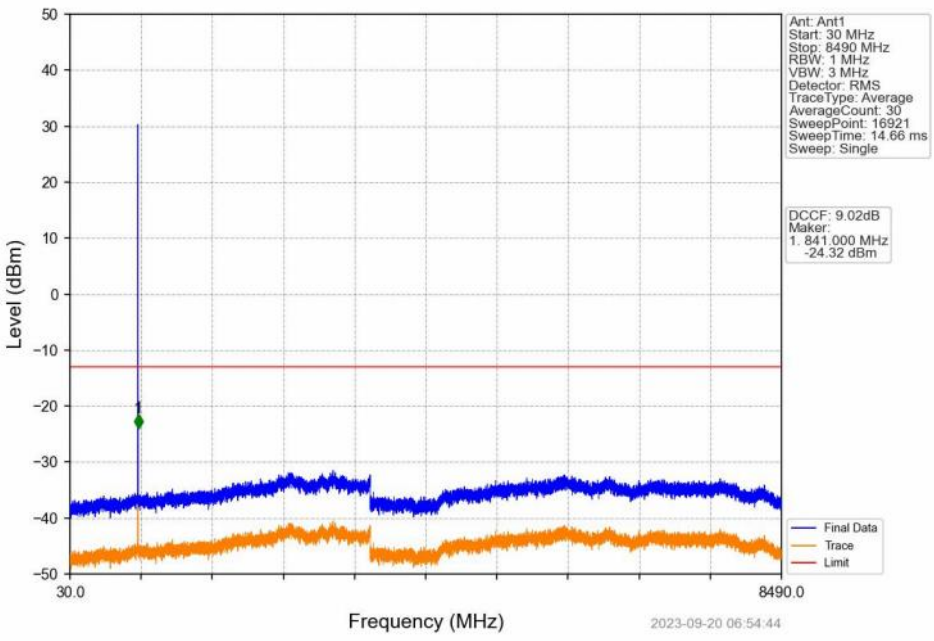
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

6.1.2 Test Graph

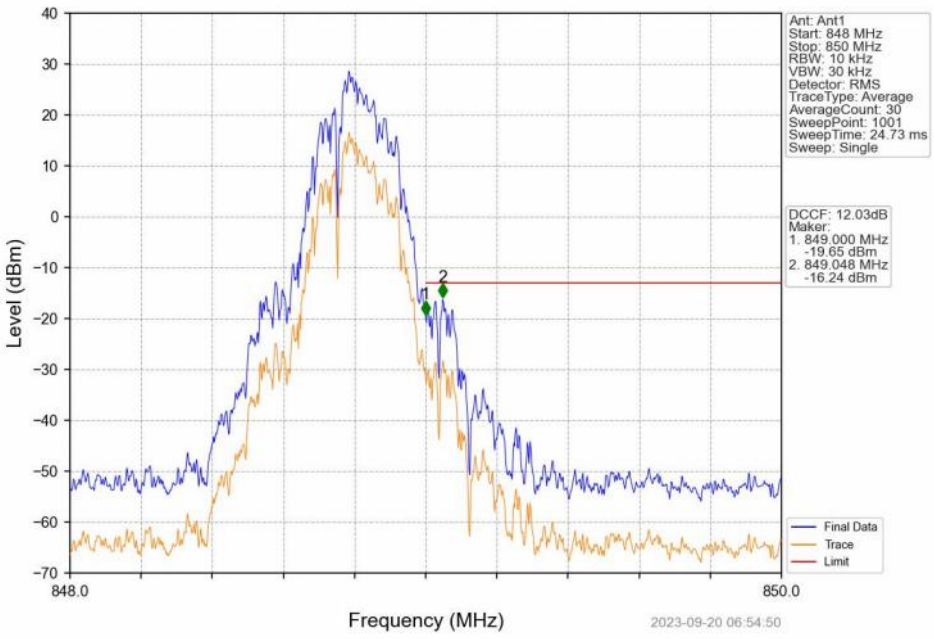
GSM850_GSM_LCH_824.2MHz_GSM_NTNV


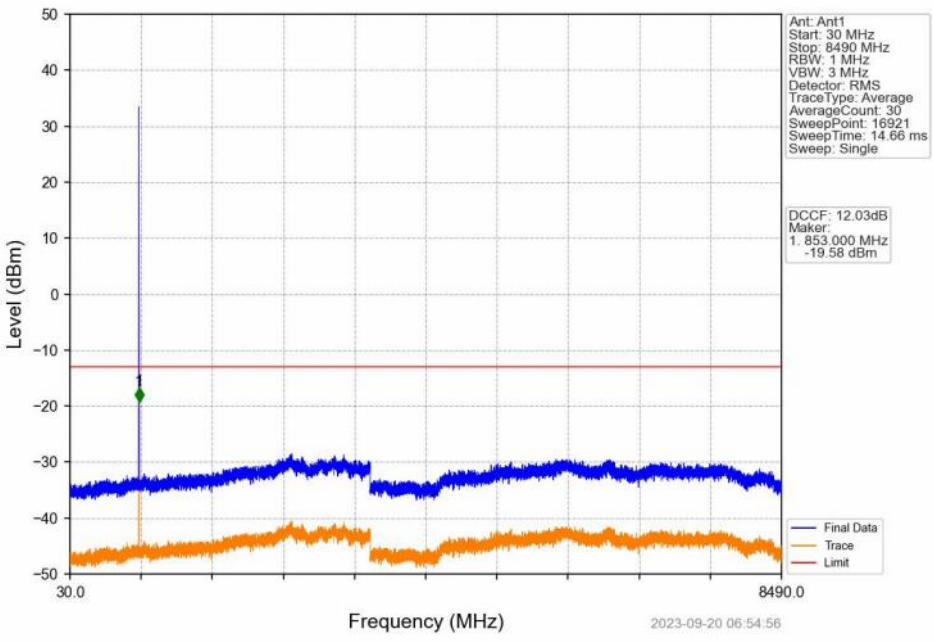
GSM850_GSM_LCH_824.2MHz_GSM_NTNV


GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV


7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	1.3521	0.0141	ppm	250KGXW	22H	31.31

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	0.8551	0.0141	ppm	250KGXW	22H	29.32