

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	28.80	0.81	29.61	<=33.01	Pass
		2 TX Slots	1850.2	28.49	0.81	29.30	<=33.01	Pass
		3 TX Slots	1850.2	27.13	0.81	27.94	<=33.01	Pass
		4 TX Slots	1850.2	25.98	0.81	26.79	<=33.01	Pass
		1 TX Slot	1880	28.80	0.81	29.61	<=33.01	Pass
		2 TX Slots	1880	28.51	0.81	29.32	<=33.01	Pass
		3 TX Slots	1880	27.21	0.81	28.02	<=33.01	Pass
		4 TX Slots	1880	26.10	0.81	26.91	<=33.01	Pass
		1 TX Slot	1909.8	28.61	0.81	29.42	<=33.01	Pass
		2 TX Slots	1909.8	28.36	0.81	29.17	<=33.01	Pass
		3 TX Slots	1909.8	27.10	0.81	27.91	<=33.01	Pass
		4 TX Slots	1909.8	26.05	0.81	26.86	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	24.78	0.81	25.59	<=33.01	Pass
		2 TX Slots	1850.2	23.41	0.81	24.22	<=33.01	Pass
		3 TX Slots	1850.2	21.23	0.81	22.04	<=33.01	Pass
		4 TX Slots	1850.2	19.54	0.81	20.35	<=33.01	Pass
		1 TX Slot	1880	25.24	0.81	26.05	<=33.01	Pass
		2 TX Slots	1880	23.24	0.81	24.05	<=33.01	Pass
		3 TX Slots	1880	20.92	0.81	21.73	<=33.01	Pass
		4 TX Slots	1880	21.91	0.81	22.72	<=33.01	Pass
		1 TX Slot	1909.8	24.25	0.81	25.06	<=33.01	Pass
		2 TX Slots	1909.8	22.91	0.81	23.72	<=33.01	Pass
		3 TX Slots	1909.8	20.65	0.81	21.46	<=33.01	Pass
		4 TX Slots	1909.8	18.96	0.81	19.77	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.27	0.904	0.0005	-2.5 to 2.5	Pass
			3.85	-13.592	-0.0073	-2.5 to 2.5	Pass
			4.43	-11.526	-0.0062	-2.5 to 2.5	Pass
		-30	3.85	-14.529	-0.0079	-2.5 to 2.5	Pass
		-20	3.85	-8.330	-0.0045	-2.5 to 2.5	Pass
		-10	3.85	-4.972	-0.0027	-2.5 to 2.5	Pass
		0	3.85	-14.787	-0.0080	-2.5 to 2.5	Pass
		10	3.85	-9.234	-0.0050	-2.5 to 2.5	Pass
		30	3.85	-8.749	-0.0047	-2.5 to 2.5	Pass
		40	3.85	-7.264	-0.0039	-2.5 to 2.5	Pass

	1880	50	3.85	-3.681	-0.0020	-2.5 to 2.5	Pass
		20	3.27	-6.231	-0.0033	-2.5 to 2.5	Pass
			3.85	-9.621	-0.0051	-2.5 to 2.5	Pass
			4.43	-14.077	-0.0075	-2.5 to 2.5	Pass
		-30	3.85	-5.973	-0.0032	-2.5 to 2.5	Pass
		-20	3.85	-8.943	-0.0048	-2.5 to 2.5	Pass
		-10	3.85	-9.169	-0.0049	-2.5 to 2.5	Pass
		0	3.85	-8.104	-0.0043	-2.5 to 2.5	Pass
		10	3.85	-4.843	-0.0026	-2.5 to 2.5	Pass
		30	3.85	-6.974	-0.0037	-2.5 to 2.5	Pass
		40	3.85	-3.390	-0.0018	-2.5 to 2.5	Pass
		50	3.85	1.582	0.0008	-2.5 to 2.5	Pass
	1909.8	20	3.27	-5.037	-0.0026	-2.5 to 2.5	Pass
			3.85	-7.361	-0.0039	-2.5 to 2.5	Pass
			4.43	-10.105	-0.0053	-2.5 to 2.5	Pass
		-30	3.85	-11.655	-0.0061	-2.5 to 2.5	Pass
		-20	3.85	-5.650	-0.0030	-2.5 to 2.5	Pass
		-10	3.85	-8.879	-0.0046	-2.5 to 2.5	Pass
		0	3.85	-4.197	-0.0022	-2.5 to 2.5	Pass
		10	3.85	-5.263	-0.0028	-2.5 to 2.5	Pass
		30	3.85	-7.749	-0.0041	-2.5 to 2.5	Pass
		40	3.85	1.905	0.0010	-2.5 to 2.5	Pass
		50	3.85	3.713	0.0019	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	-28.541	-0.0154	-2.5 to 2.5	Pass
			3.85	-34.481	-0.0186	-2.5 to 2.5	Pass
			4.43	-22.213	-0.0120	-2.5 to 2.5	Pass
		-30	3.85	-34.191	-0.0185	-2.5 to 2.5	Pass
		-20	3.85	-27.895	-0.0151	-2.5 to 2.5	Pass
		-10	3.85	-29.832	-0.0161	-2.5 to 2.5	Pass
		0	3.85	-25.312	-0.0137	-2.5 to 2.5	Pass
		10	3.85	-30.930	-0.0167	-2.5 to 2.5	Pass
		30	3.85	-27.798	-0.0150	-2.5 to 2.5	Pass
		40	3.85	-40.325	-0.0218	-2.5 to 2.5	Pass
		50	3.85	-29.638	-0.0160	-2.5 to 2.5	Pass
	1880	20	3.27	-31.576	-0.0168	-2.5 to 2.5	Pass
			3.85	-33.610	-0.0179	-2.5 to 2.5	Pass
			4.43	-30.478	-0.0162	-2.5 to 2.5	Pass
		-30	3.85	-36.063	-0.0192	-2.5 to 2.5	Pass
		-20	3.85	-30.801	-0.0164	-2.5 to 2.5	Pass
		-10	3.85	-34.352	-0.0183	-2.5 to 2.5	Pass
		0	3.85	-26.894	-0.0143	-2.5 to 2.5	Pass
		10	3.85	-30.575	-0.0163	-2.5 to 2.5	Pass
		30	3.85	-26.926	-0.0143	-2.5 to 2.5	Pass
		40	3.85	-30.026	-0.0160	-2.5 to 2.5	Pass
		50	3.85	-31.479	-0.0167	-2.5 to 2.5	Pass
	1909.8	20	3.27	-30.672	-0.0161	-2.5 to 2.5	Pass
			3.85	-29.186	-0.0153	-2.5 to 2.5	Pass
			4.43	-31.963	-0.0167	-2.5 to 2.5	Pass
		-30	3.85	-25.377	-0.0133	-2.5 to 2.5	Pass
		-20	3.85	-27.185	-0.0142	-2.5 to 2.5	Pass
		-10	3.85	-28.670	-0.0150	-2.5 to 2.5	Pass
		0	3.85	-23.698	-0.0124	-2.5 to 2.5	Pass
		10	3.85	-32.673	-0.0171	-2.5 to 2.5	Pass
		30	3.85	-27.637	-0.0145	-2.5 to 2.5	Pass
		40	3.85	-26.248	-0.0137	-2.5 to 2.5	Pass
		50	3.85	-29.671	-0.0155	-2.5 to 2.5	Pass

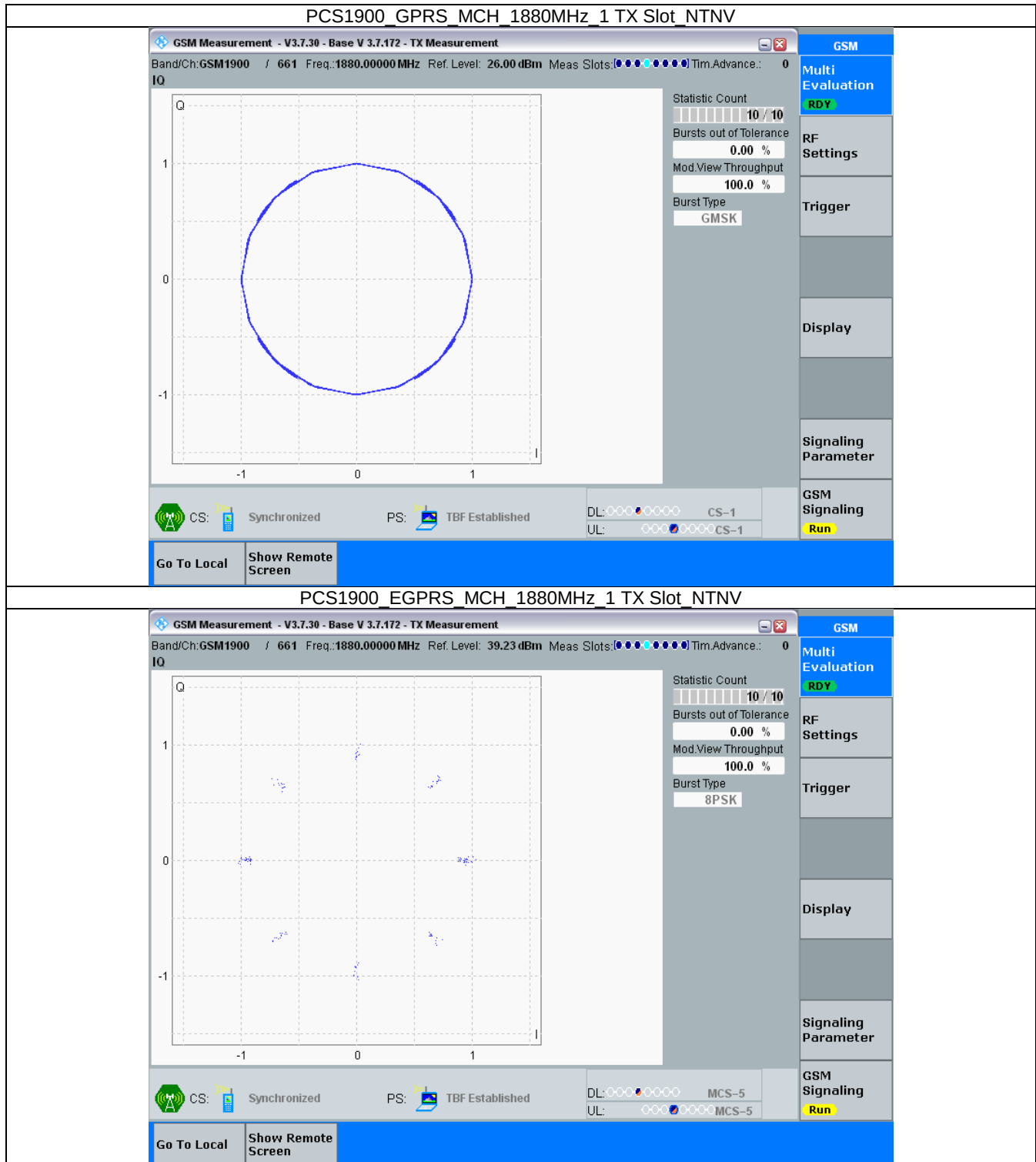
3. Modulation Characteristics

3.1 PCS1900

3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1880	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1880	Refer To Test Graph		Pass

3.1.2 Test Graph



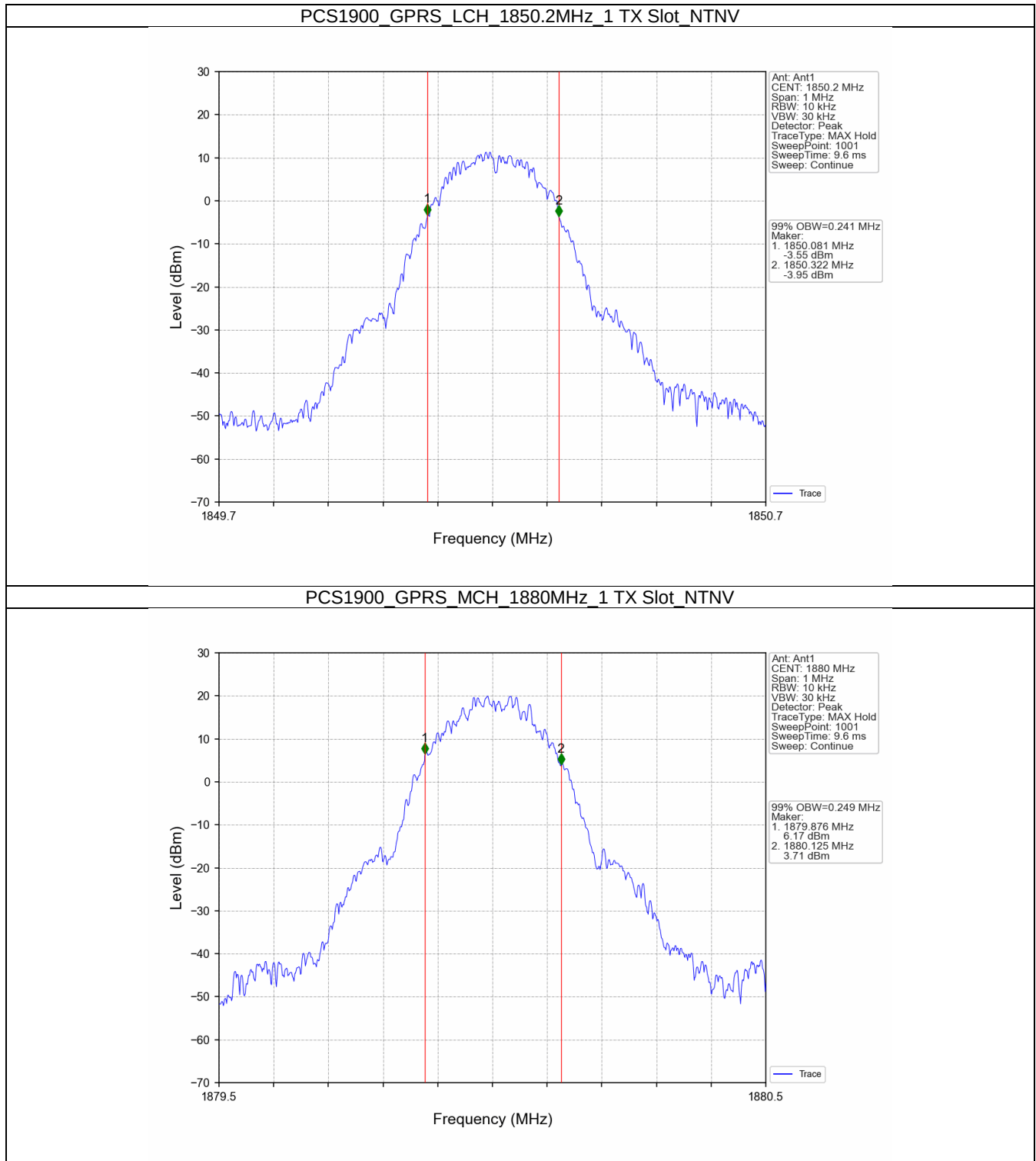
4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

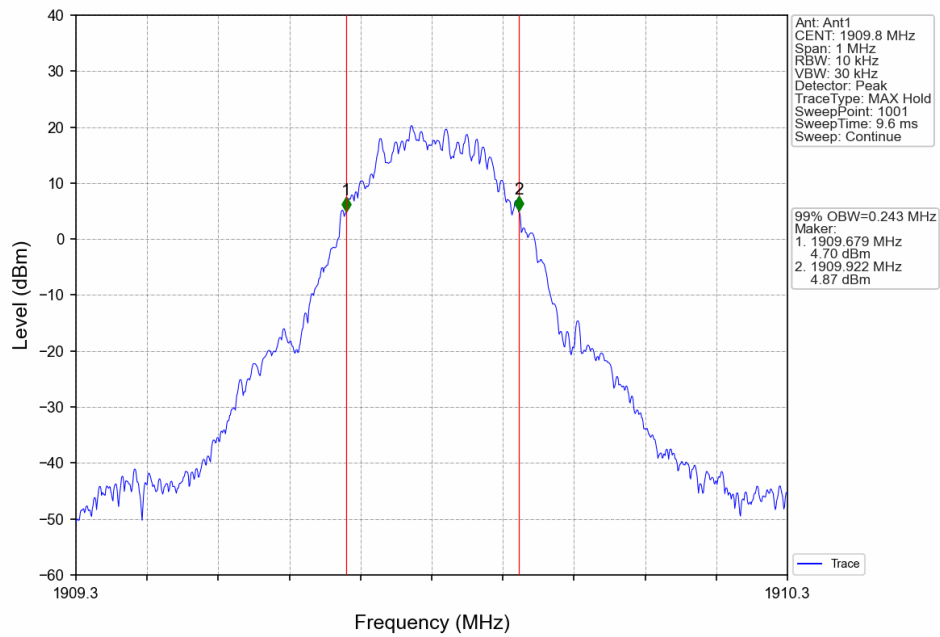
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.241	/	Pass
			1880	0.249	/	Pass
			1909.8	0.243	/	Pass
	EGPRS	1 TX Slot	1850.2	0.237	/	Pass
			1880	0.246	/	Pass
			1909.8	0.250	/	Pass

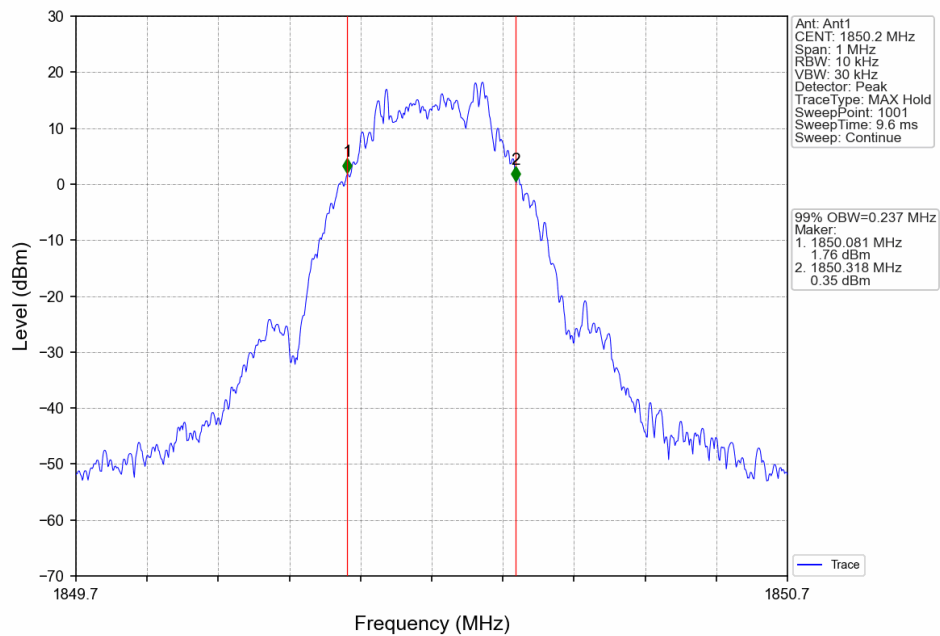
4.1.2 Test Graph



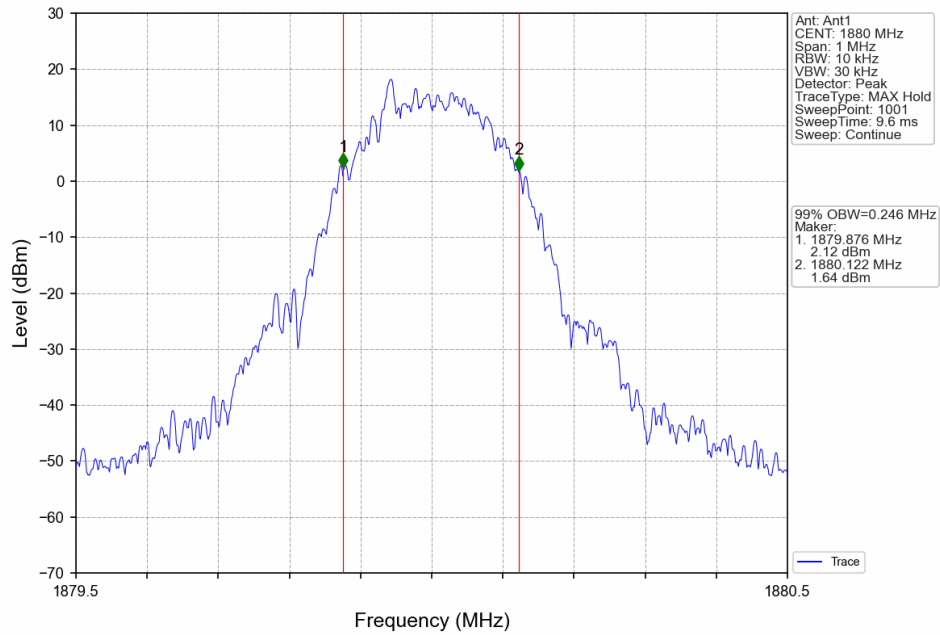
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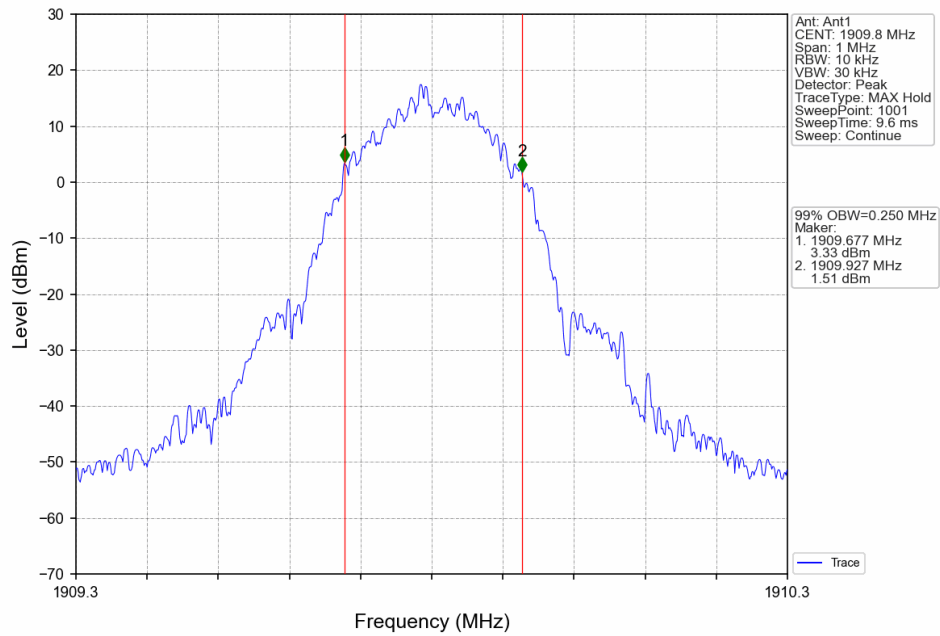
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

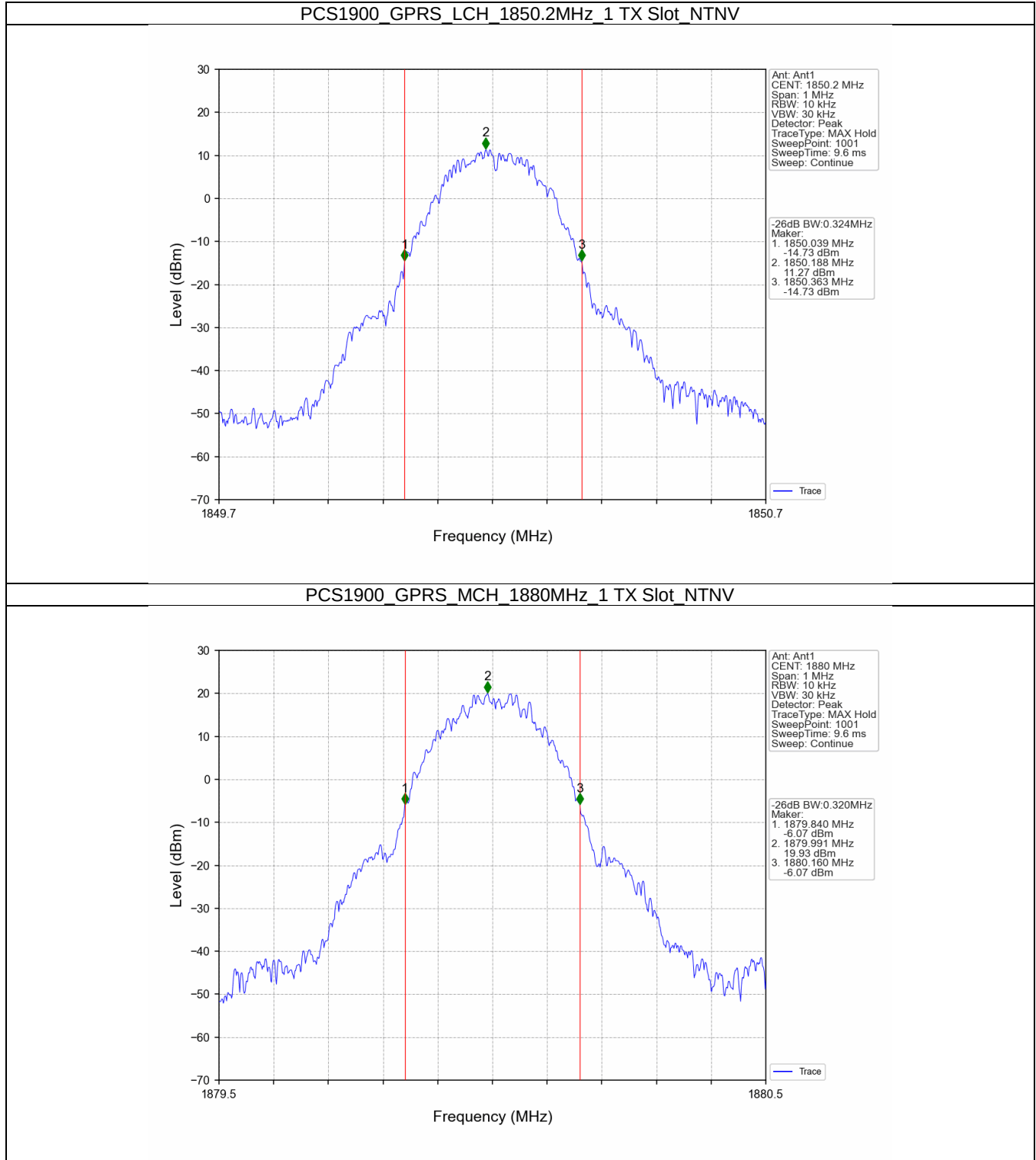


4.2 PCS1900_XDB

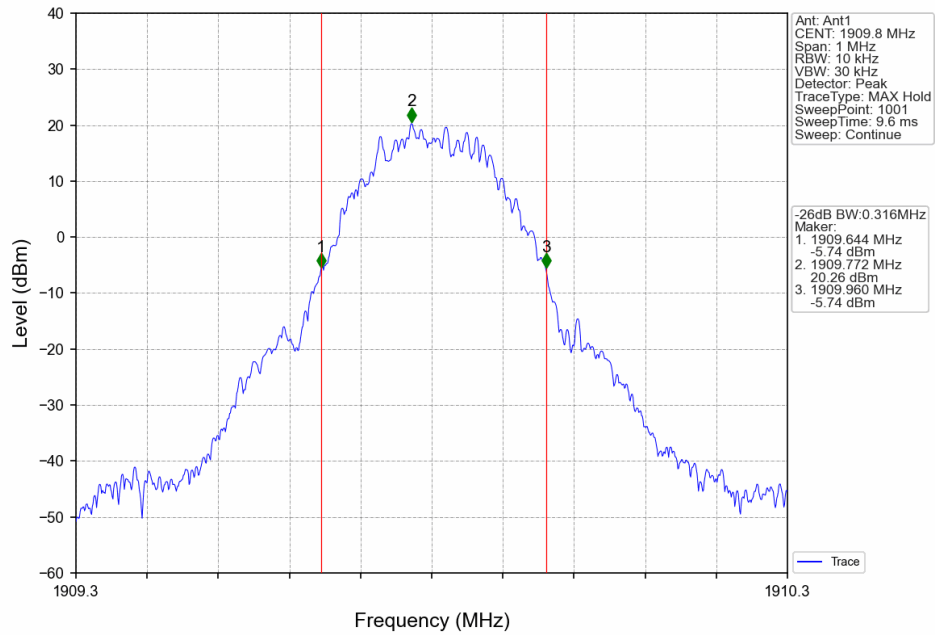
4.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.324	/	Pass
			1880	0.320	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.303	/	Pass
			1909.8	0.303	/	Pass

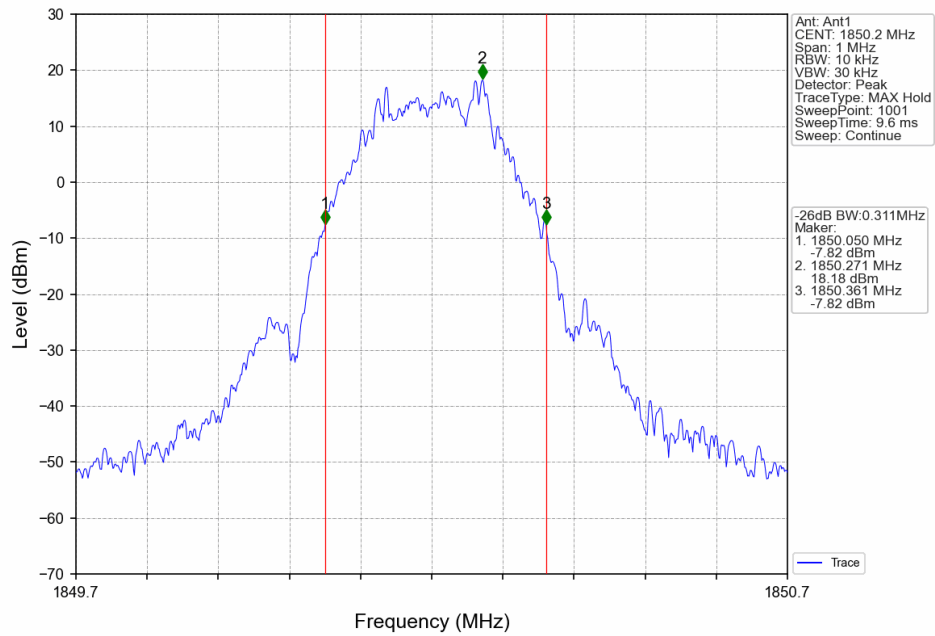
4.2.2 Test Graph



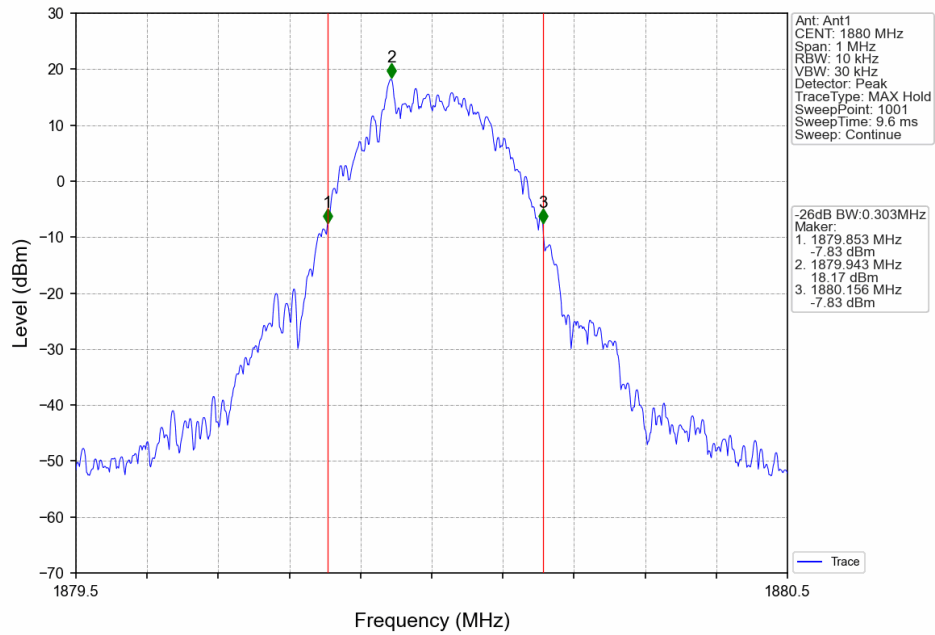
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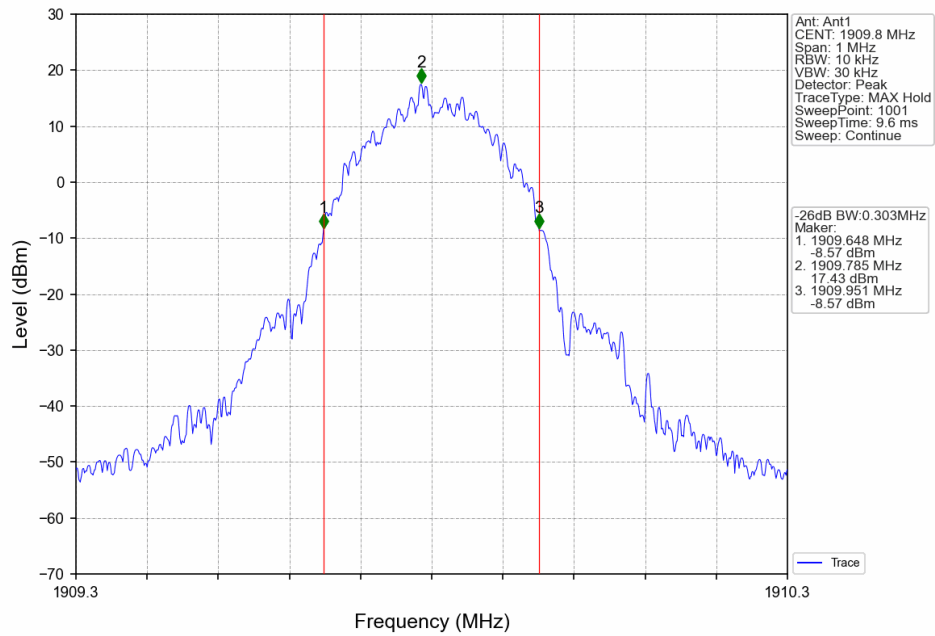
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



5. Peak-Average Ratio

5.1 PCS1900

5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.50	<=13	Pass
			1880	3.53	<=13	Pass
			1909.8	3.45	<=13	Pass
	EGPRS	4 TX Slots	1850.2	10.87	<=13	Pass
			1880	11.11	<=13	Pass
			1909.8	11.38	<=13	Pass

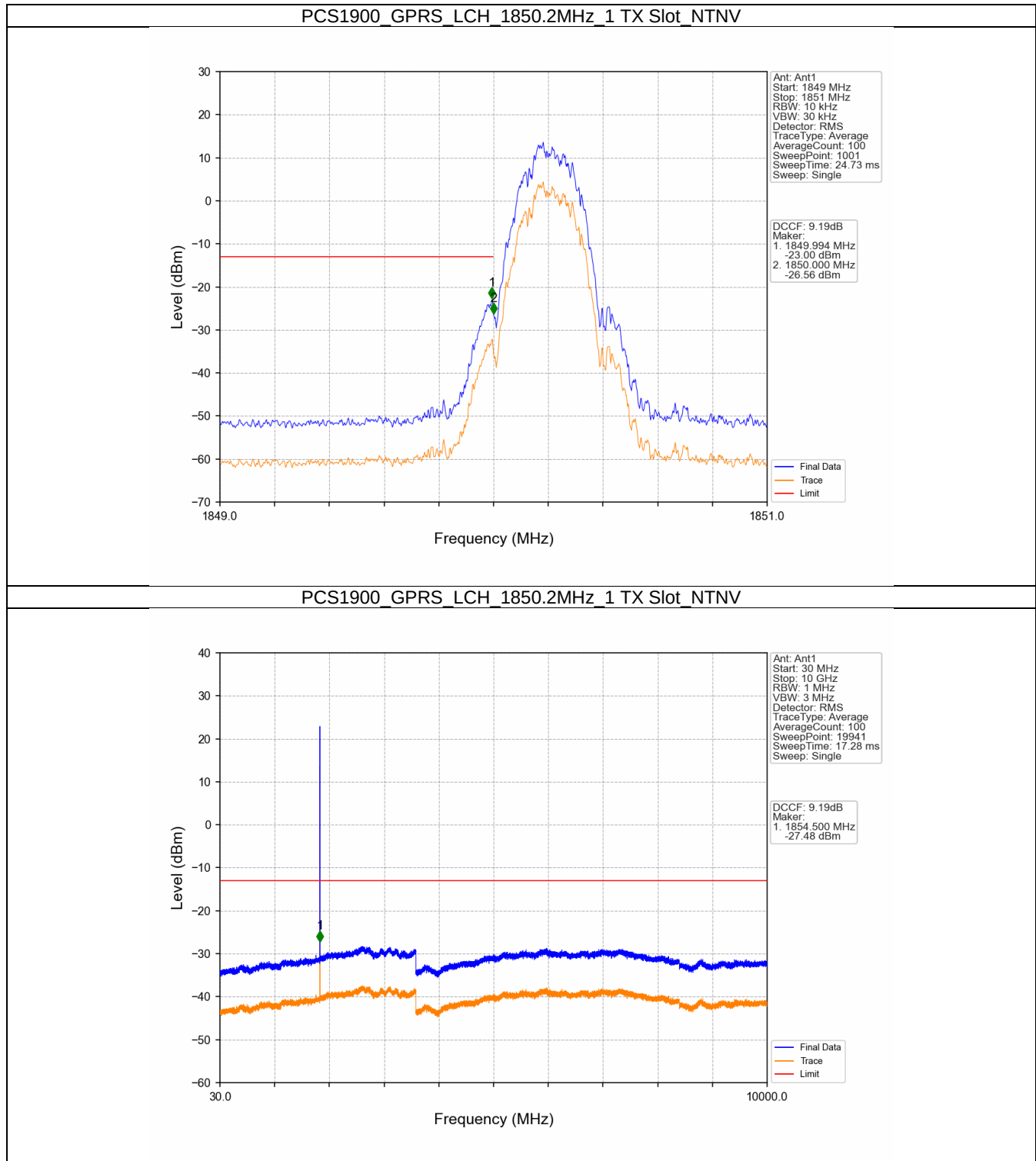
6. Spurious Emission

6.1 PCS1900

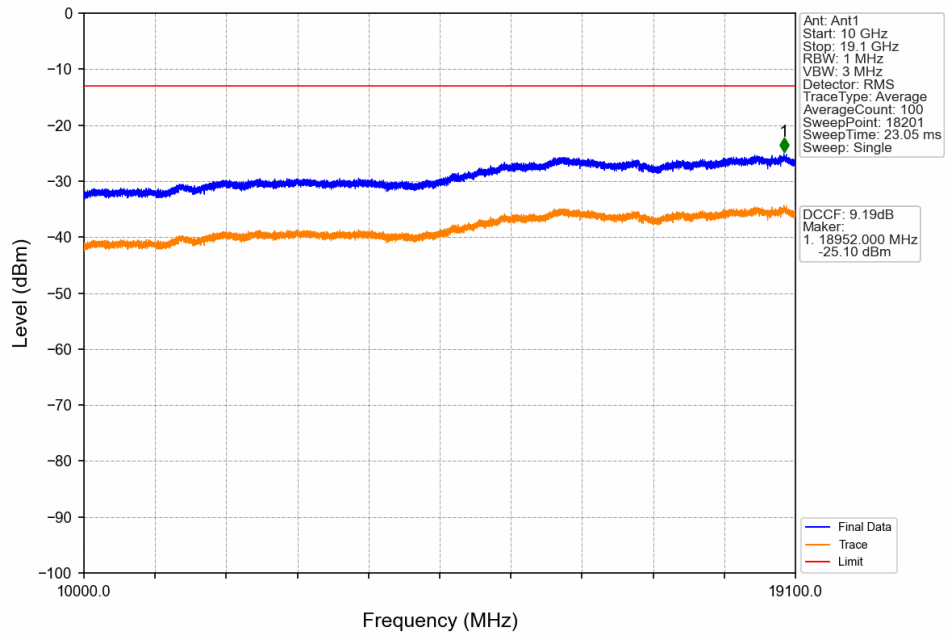
6.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass

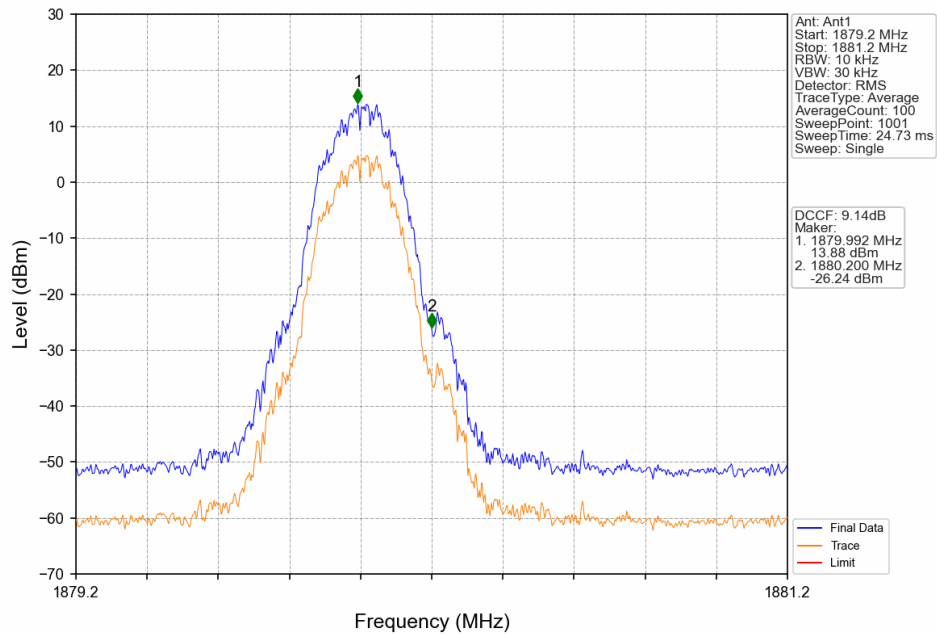
6.1.2 Test Graph



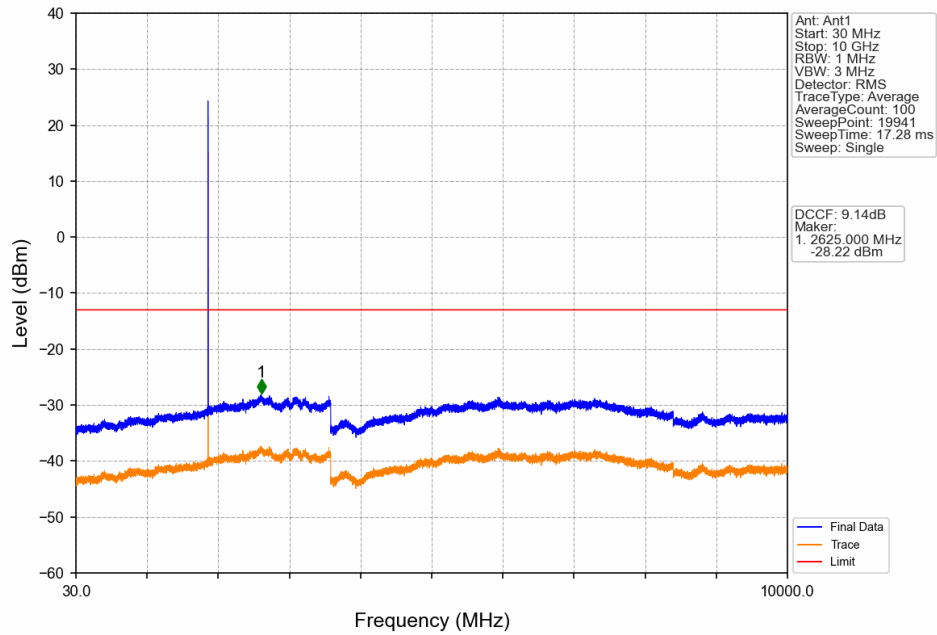
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



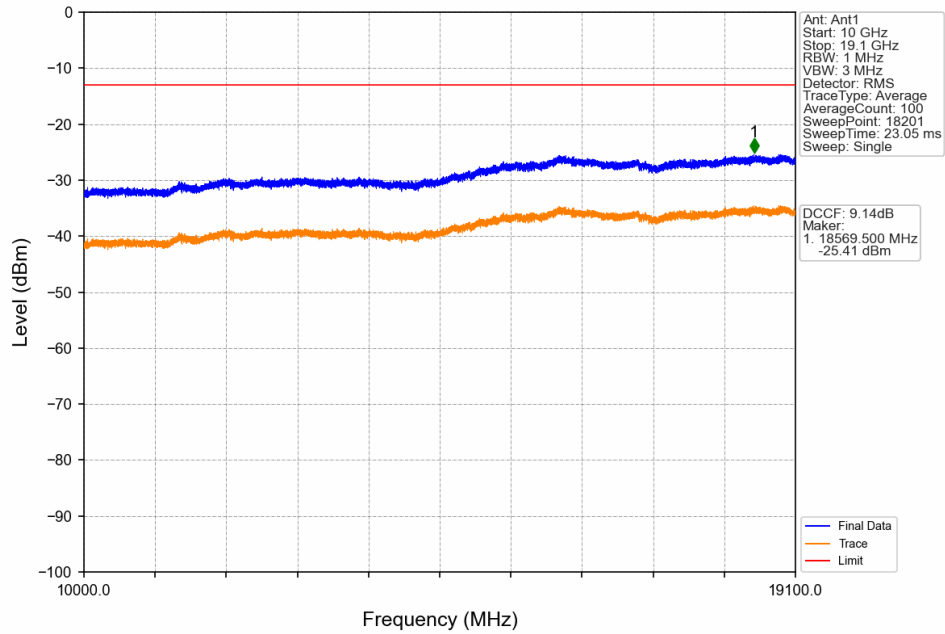
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



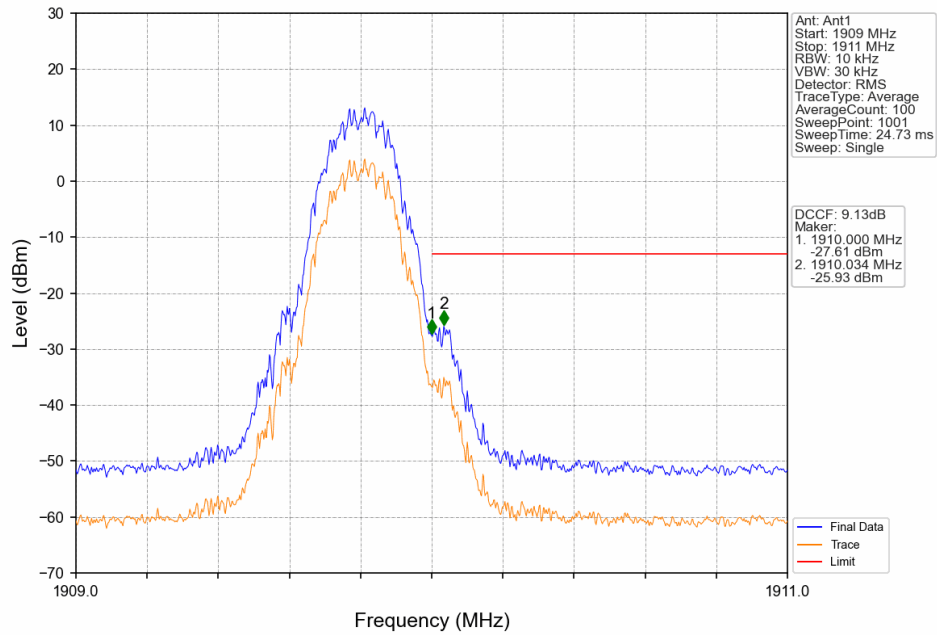
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



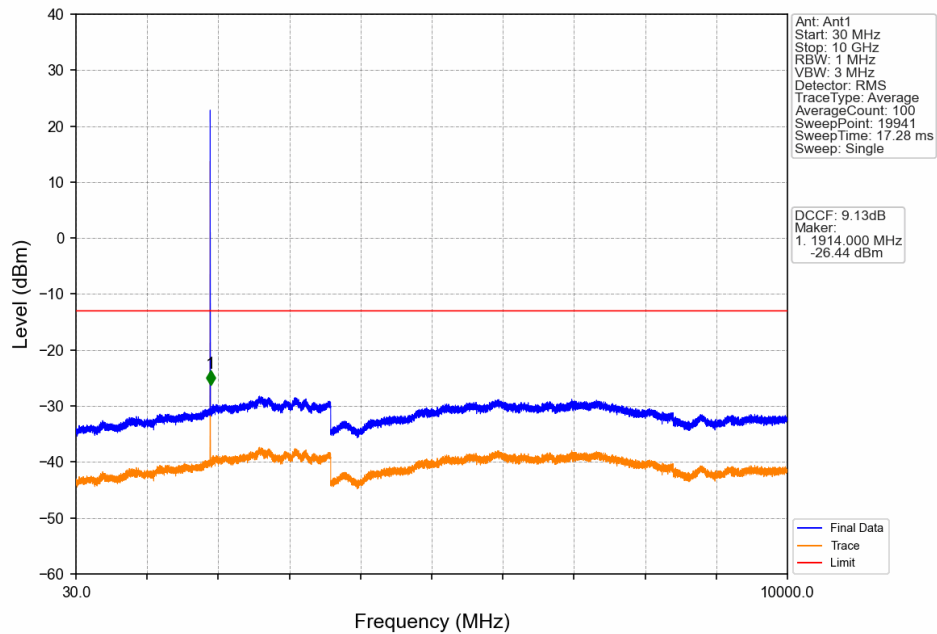
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



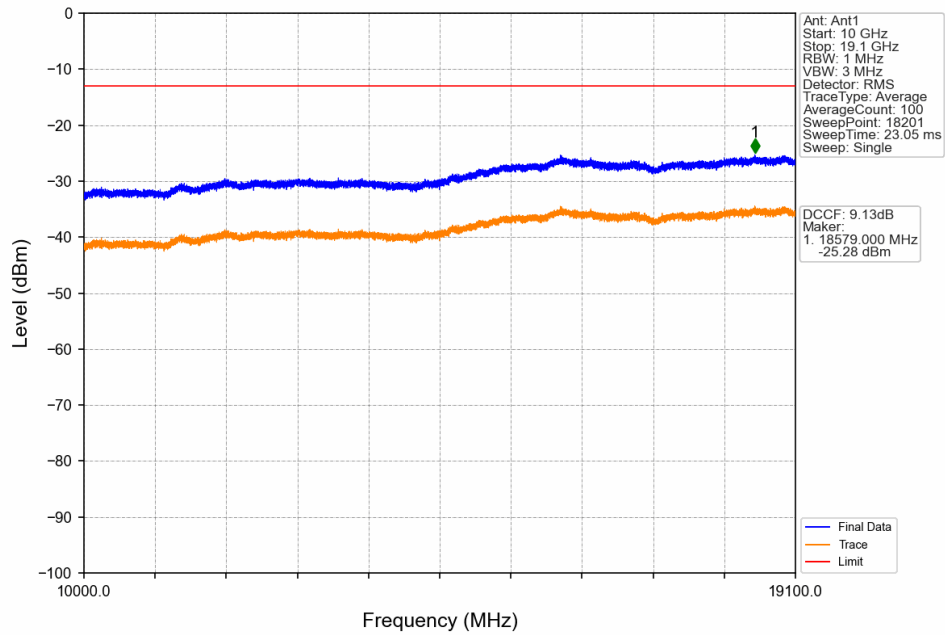
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



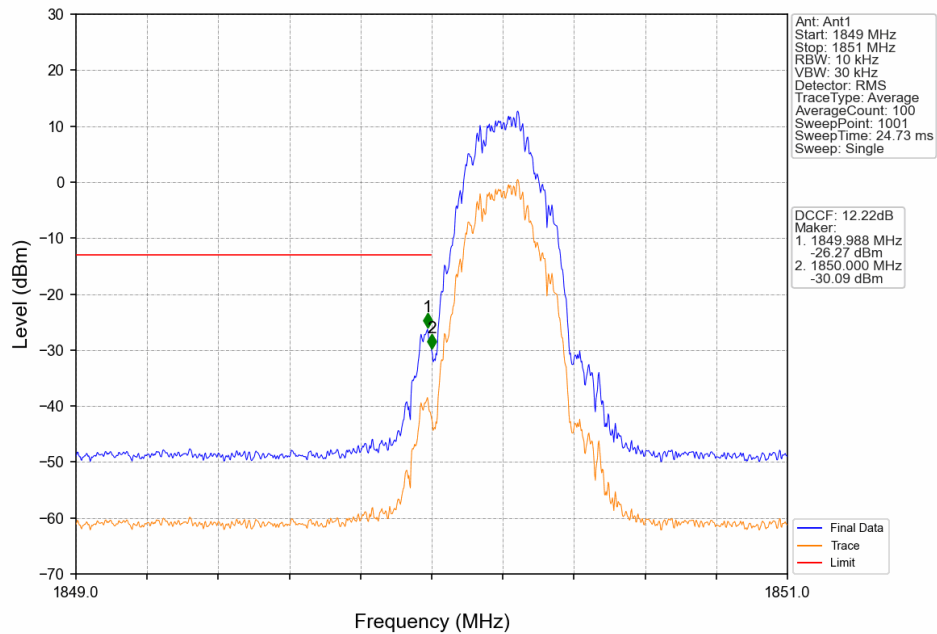
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



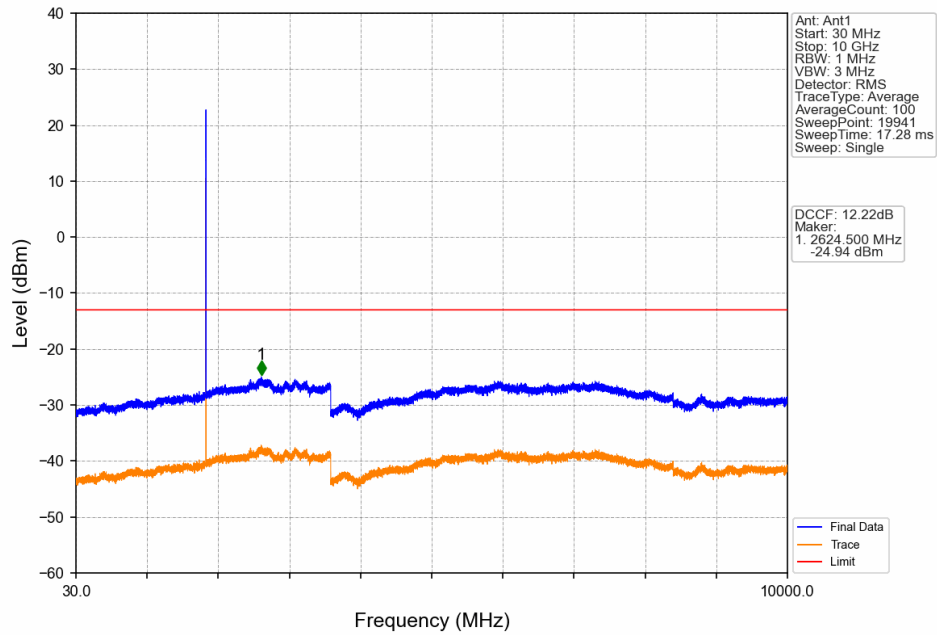
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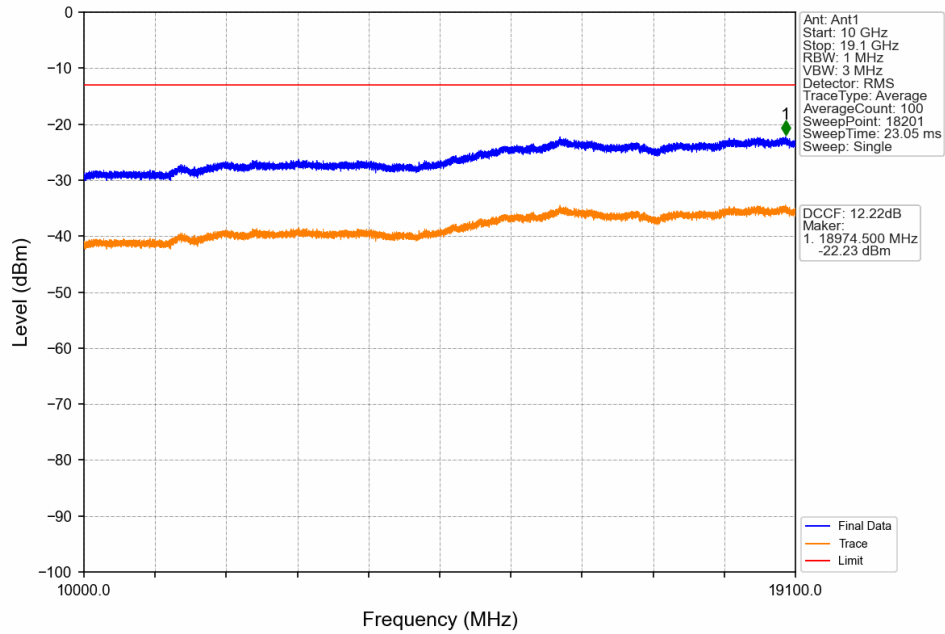
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



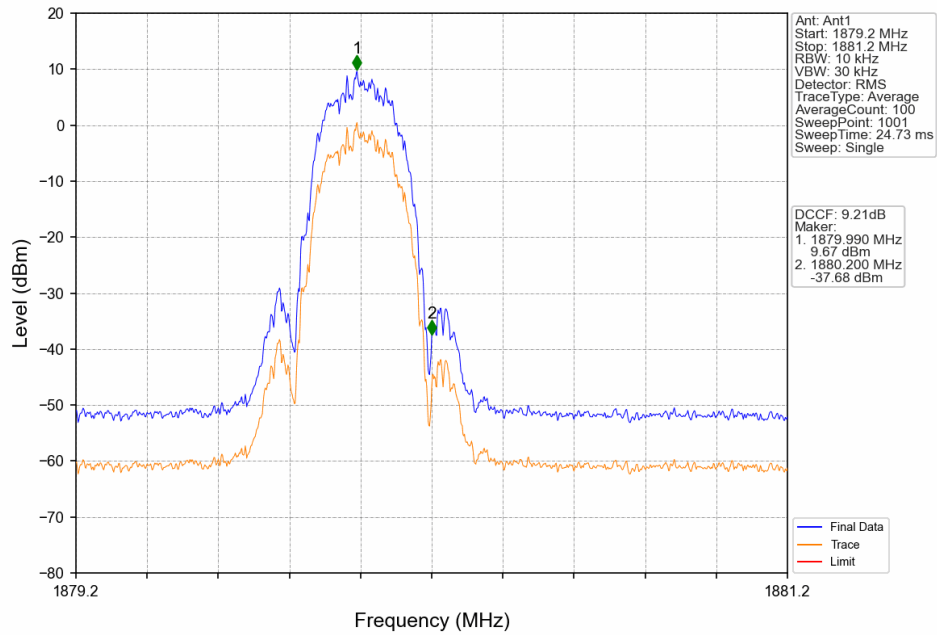
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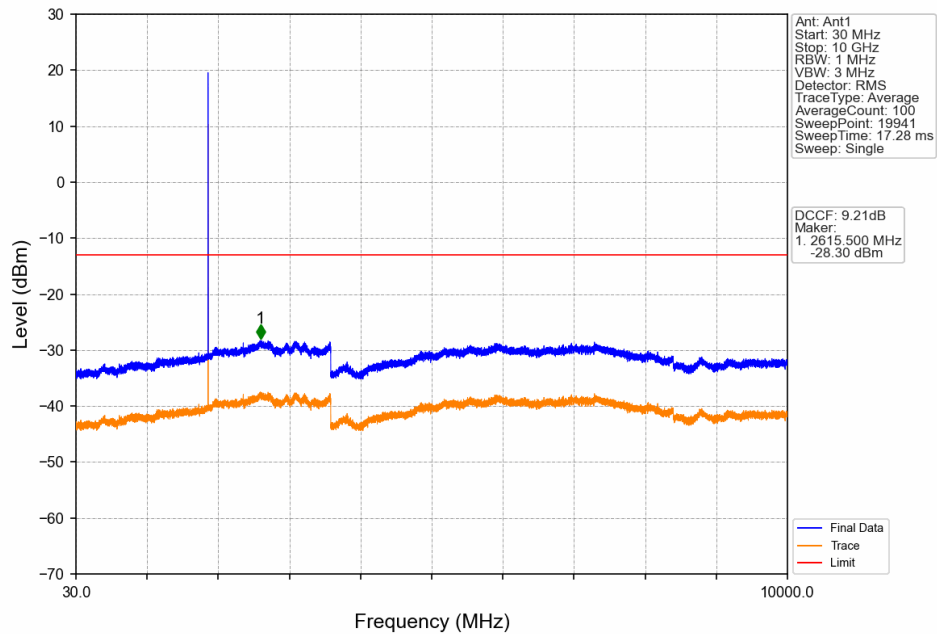
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



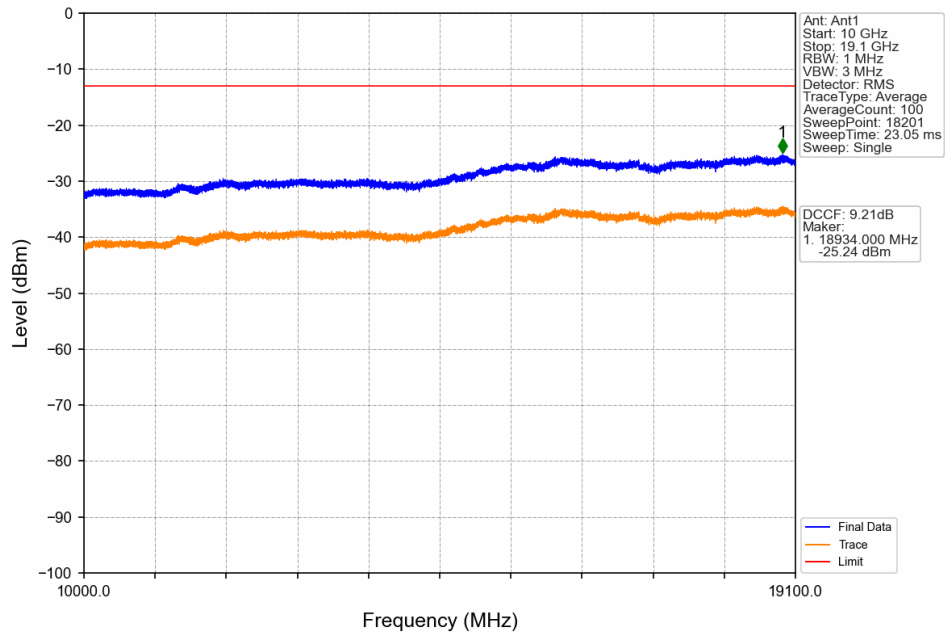
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



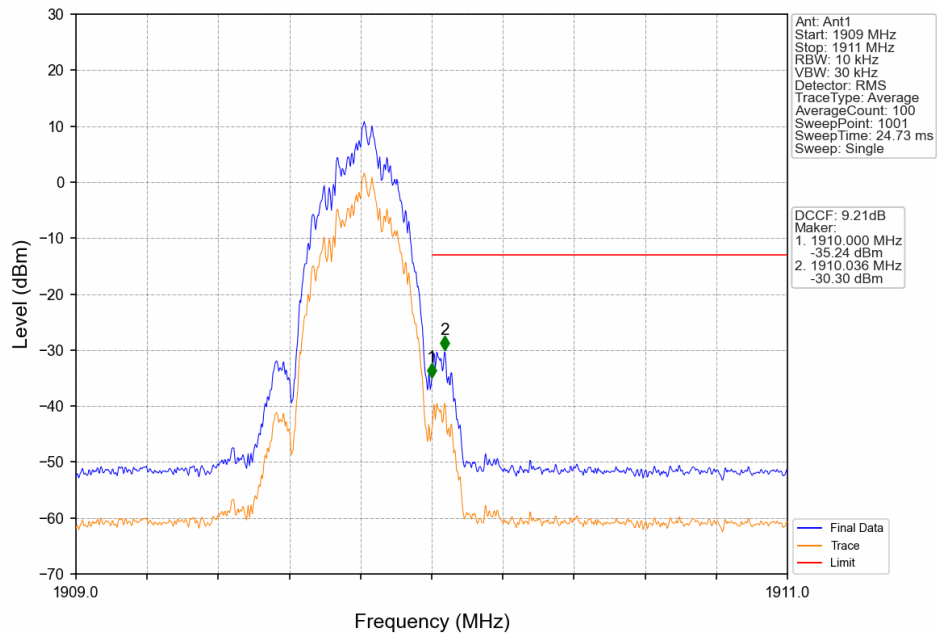
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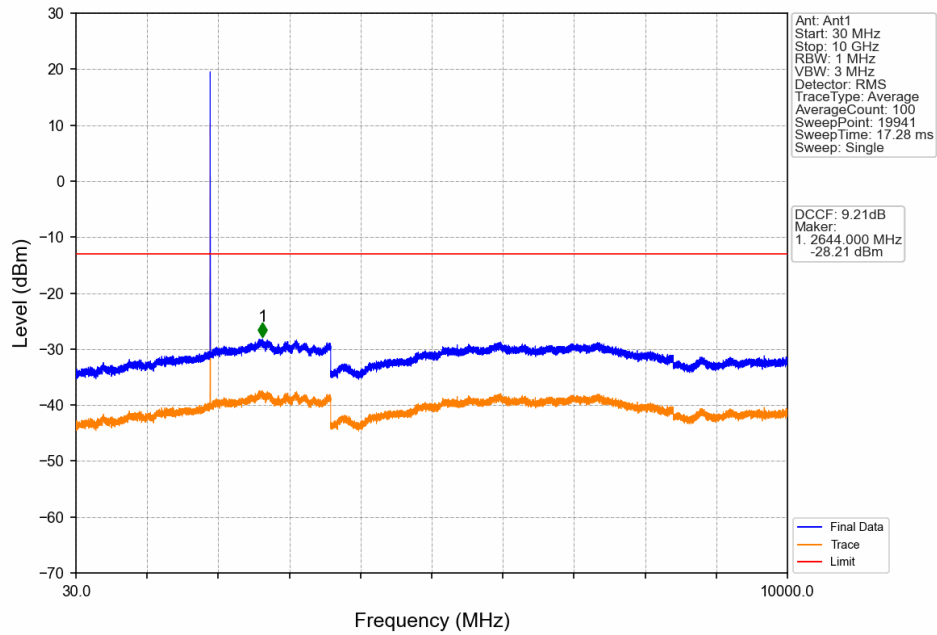
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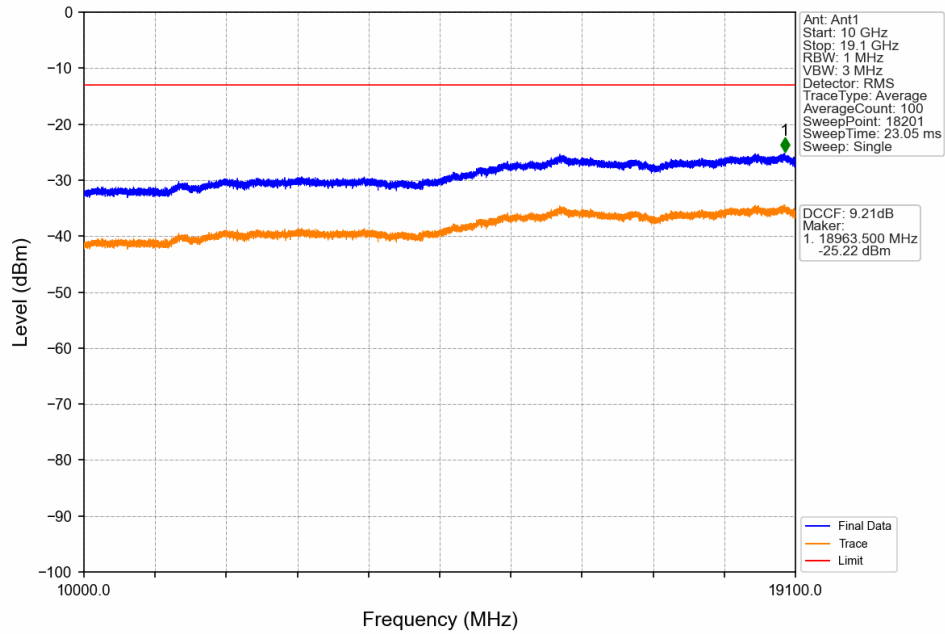
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_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)
PCS1900	0.2	1850.2	1909.8	0.7586	0.0080	ppm	249KGXW	24E	28.80
PCS1900	0.2	1850.2	1909.8	0.3342	0.0218	ppm	250KG7W	24E	25.24

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	0.9141	0.0080	ppm	249KGXW	24E	29.61
PCS1900	0.2	1850.2	1909.8	0.4027	0.0218	ppm	250KG7W	24E	26.05