

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	GSM	GSM	1850.2	29.06	-1.60	27.46	<=33.01	Pass	
			1880	28.98	-1.60	27.38	<=33.01	Pass	
			1909.8	29.34	-1.60	27.74	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	20.21	-1.60	18.61	<=33.01	Pass	
		2 TX Slots	1850.2	28.54	-1.60	26.94	<=33.01	Pass	
		3 TX Slots	1850.2	26.87	-1.60	25.27	<=33.01	Pass	
		4 TX Slots	1850.2	25.83	-1.60	24.23	<=33.01	Pass	
		1 TX Slot	1880	28.97	-1.60	27.37	<=33.01	Pass	
		2 TX Slots	1880	28.43	-1.60	26.83	<=33.01	Pass	
		3 TX Slots	1880	26.78	-1.60	25.18	<=33.01	Pass	
		4 TX Slots	1880	25.78	-1.60	24.18	<=33.01	Pass	
		1 TX Slot	1909.8	29.31	-1.60	27.71	<=33.01	Pass	
		2 TX Slots	1909.8	28.77	-1.60	27.17	<=33.01	Pass	
		3 TX Slots	1909.8	27.14	-1.60	25.54	<=33.01	Pass	
		4 TX Slots	1909.8	26.17	-1.60	24.57	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	20.12	-1.60	18.52	<=33.01	Pass
			2 TX Slots	1850.2	24.54	-1.60	22.94	<=33.01	Pass
			3 TX Slots	1850.2	22.30	-1.60	20.70	<=33.01	Pass
			4 TX Slots	1850.2	21.22	-1.60	19.62	<=33.01	Pass
	1 TX Slot		1880	25.85	-1.60	24.25	<=33.01	Pass	
	2 TX Slots		1880	23.65	-1.60	22.05	<=33.01	Pass	
	3 TX Slots		1880	21.55	-1.60	19.95	<=33.01	Pass	
	4 TX Slots		1880	20.37	-1.60	18.77	<=33.01	Pass	
	1 TX Slot		1909.8	24.39	-1.60	22.79	<=33.01	Pass	
	2 TX Slots		1909.8	23.45	-1.60	21.85	<=33.01	Pass	
	3 TX Slots		1909.8	21.26	-1.60	19.66	<=33.01	Pass	
	4 TX Slots		1909.8	20.23	-1.60	18.63	<=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	
GSM	1850.2	20	3.6	3.907	0.0021	-2.5 to 2.5	Pass
			3.85	13.011	0.0070	-2.5 to 2.5	Pass
			4.4	13.980	0.0076	-2.5 to 2.5	Pass
		-30	3.85	15.174	0.0082	-2.5 to 2.5	Pass
		-20	3.85	10.235	0.0055	-2.5 to 2.5	Pass
		-10	3.85	15.368	0.0083	-2.5 to 2.5	Pass
		0	3.85	18.629	0.0101	-2.5 to 2.5	Pass
		10	3.85	35.870	0.0194	-2.5 to 2.5	Pass

		30	3.85	36.418	0.0197	-2.5 to 2.5	Pass
		40	3.85	43.069	0.0233	-2.5 to 2.5	Pass
		50	3.85	42.714	0.0231	-2.5 to 2.5	Pass
	1880	20	3.6	10.525	0.0056	-2.5 to 2.5	Pass
			3.85	9.266	0.0049	-2.5 to 2.5	Pass
			4.4	10.654	0.0057	-2.5 to 2.5	Pass
		-30	3.85	10.105	0.0054	-2.5 to 2.5	Pass
		-20	3.85	13.754	0.0073	-2.5 to 2.5	Pass
		-10	3.85	9.589	0.0051	-2.5 to 2.5	Pass
		0	3.85	10.364	0.0055	-2.5 to 2.5	Pass
		10	3.85	17.951	0.0095	-2.5 to 2.5	Pass
		30	3.85	16.369	0.0087	-2.5 to 2.5	Pass
		40	3.85	18.274	0.0097	-2.5 to 2.5	Pass
		50	3.85	23.117	0.0123	-2.5 to 2.5	Pass
	1909.8	20	3.6	5.682	0.0030	-2.5 to 2.5	Pass
			3.85	10.364	0.0054	-2.5 to 2.5	Pass
			4.4	7.555	0.0040	-2.5 to 2.5	Pass
		-30	3.85	9.524	0.0050	-2.5 to 2.5	Pass
		-20	3.85	7.071	0.0037	-2.5 to 2.5	Pass
		-10	3.85	11.720	0.0061	-2.5 to 2.5	Pass
		0	3.85	13.754	0.0072	-2.5 to 2.5	Pass
		10	3.85	18.823	0.0099	-2.5 to 2.5	Pass
		30	3.85	15.691	0.0082	-2.5 to 2.5	Pass
		40	3.85	14.077	0.0074	-2.5 to 2.5	Pass
		50	3.85	10.235	0.0054	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.6	8.491	0.0046	-2.5 to 2.5	Pass
			3.85	7.071	0.0038	-2.5 to 2.5	Pass
			4.4	11.978	0.0065	-2.5 to 2.5	Pass
		-30	3.85	10.428	0.0056	-2.5 to 2.5	Pass
		-20	3.85	9.234	0.0050	-2.5 to 2.5	Pass
		-10	3.85	7.878	0.0043	-2.5 to 2.5	Pass
		0	3.85	11.494	0.0062	-2.5 to 2.5	Pass
		10	3.85	23.859	0.0129	-2.5 to 2.5	Pass
		30	3.85	25.183	0.0136	-2.5 to 2.5	Pass
		40	3.85	25.344	0.0137	-2.5 to 2.5	Pass
		50	3.85	-0.484	-0.0003	-2.5 to 2.5	Pass
	1880	20	3.6	17.531	0.0093	-2.5 to 2.5	Pass
			3.85	9.331	0.0050	-2.5 to 2.5	Pass
			4.4	11.817	0.0063	-2.5 to 2.5	Pass
		-30	3.85	11.268	0.0060	-2.5 to 2.5	Pass
		-20	3.85	6.651	0.0035	-2.5 to 2.5	Pass
		-10	3.85	10.557	0.0056	-2.5 to 2.5	Pass
		0	3.85	6.070	0.0032	-2.5 to 2.5	Pass
		10	3.85	22.180	0.0118	-2.5 to 2.5	Pass
		30	3.85	25.312	0.0135	-2.5 to 2.5	Pass
		40	3.85	25.829	0.0137	-2.5 to 2.5	Pass
		50	3.85	23.084	0.0123	-2.5 to 2.5	Pass
	1909.8	20	3.6	5.618	0.0029	-2.5 to 2.5	Pass
			3.85	8.685	0.0045	-2.5 to 2.5	Pass
			4.4	10.041	0.0053	-2.5 to 2.5	Pass
		-30	3.85	11.139	0.0058	-2.5 to 2.5	Pass
		-20	3.85	3.519	0.0018	-2.5 to 2.5	Pass
		-10	3.85	6.715	0.0035	-2.5 to 2.5	Pass
		0	3.85	0.904	0.0005	-2.5 to 2.5	Pass
		10	3.85	14.561	0.0076	-2.5 to 2.5	Pass
		30	3.85	18.952	0.0099	-2.5 to 2.5	Pass
		40	3.85	17.144	0.0090	-2.5 to 2.5	Pass
		50	3.85	23.214	0.0122	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.6	6.780	0.0037	-2.5 to 2.5	Pass

			3.85	4.940	0.0027	-2.5 to 2.5	Pass
			4.4	5.941	0.0032	-2.5 to 2.5	Pass
		-30	3.85	14.109	0.0076	-2.5 to 2.5	Pass
		-20	3.85	8.620	0.0047	-2.5 to 2.5	Pass
		-10	3.85	4.197	0.0023	-2.5 to 2.5	Pass
		0	3.85	4.811	0.0026	-2.5 to 2.5	Pass
		10	3.85	19.372	0.0105	-2.5 to 2.5	Pass
		30	3.85	22.213	0.0120	-2.5 to 2.5	Pass
		40	3.85	17.370	0.0094	-2.5 to 2.5	Pass
		50	3.85	15.852	0.0086	-2.5 to 2.5	Pass
	1880	20	3.6	4.617	0.0025	-2.5 to 2.5	Pass
			3.85	6.683	0.0036	-2.5 to 2.5	Pass
			4.4	2.777	0.0015	-2.5 to 2.5	Pass
		-30	3.85	8.201	0.0044	-2.5 to 2.5	Pass
		-20	3.85	2.938	0.0016	-2.5 to 2.5	Pass
		-10	3.85	7.103	0.0038	-2.5 to 2.5	Pass
		0	3.85	3.455	0.0018	-2.5 to 2.5	Pass
		10	3.85	8.168	0.0043	-2.5 to 2.5	Pass
		30	3.85	7.103	0.0038	-2.5 to 2.5	Pass
		40	3.85	11.074	0.0059	-2.5 to 2.5	Pass
		50	3.85	10.590	0.0056	-2.5 to 2.5	Pass
	1909.8	20	3.6	4.907	0.0026	-2.5 to 2.5	Pass
			3.85	3.293	0.0017	-2.5 to 2.5	Pass
			4.4	3.681	0.0019	-2.5 to 2.5	Pass
		-30	3.85	2.486	0.0013	-2.5 to 2.5	Pass
		-20	3.85	6.199	0.0032	-2.5 to 2.5	Pass
		-10	3.85	-0.226	-0.0001	-2.5 to 2.5	Pass
		0	3.85	5.004	0.0026	-2.5 to 2.5	Pass
		10	3.85	1.421	0.0007	-2.5 to 2.5	Pass
		30	3.85	8.491	0.0044	-2.5 to 2.5	Pass
		40	3.85	1.098	0.0006	-2.5 to 2.5	Pass
		50	3.85	6.425	0.0034	-2.5 to 2.5	Pass

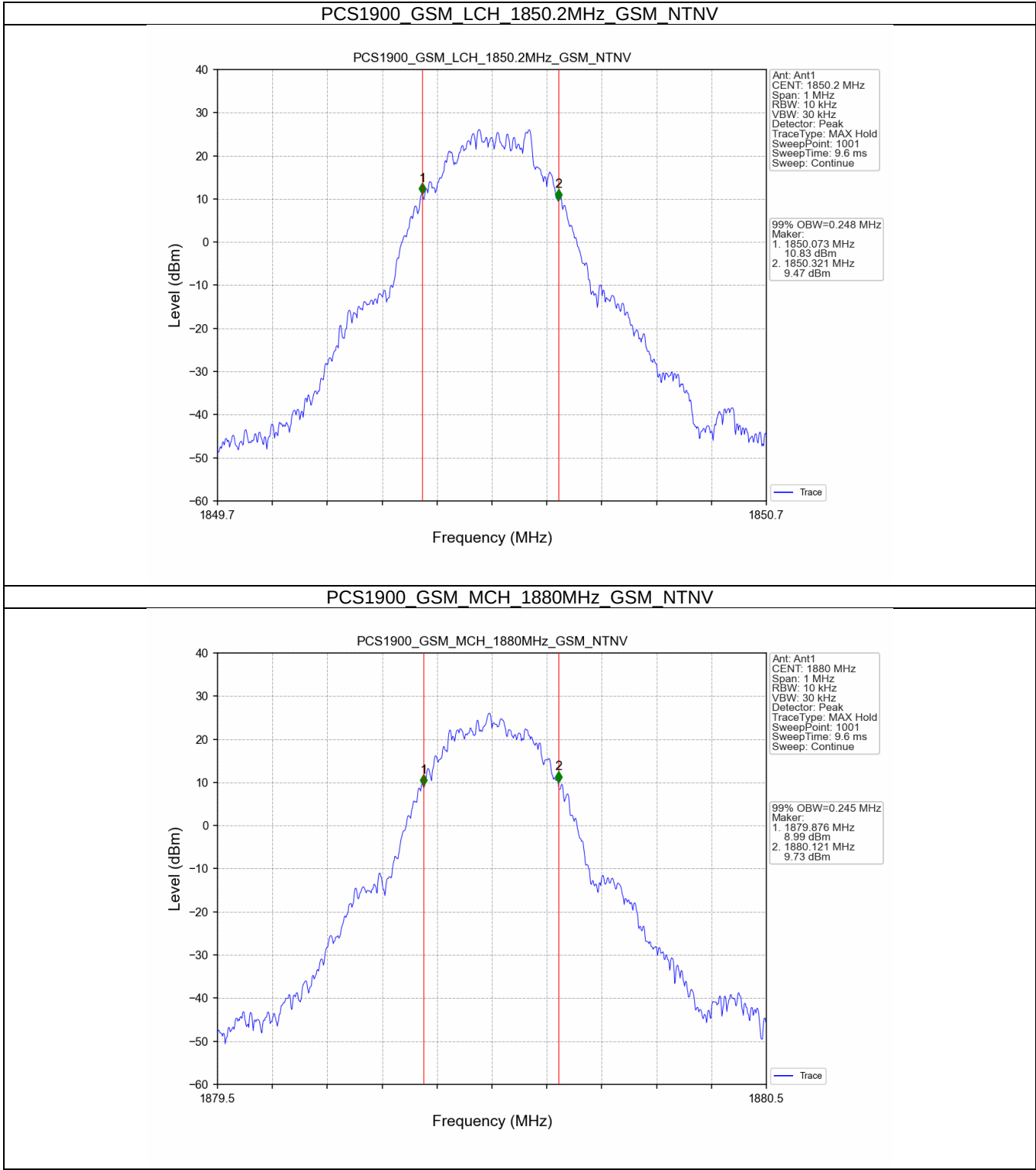
3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

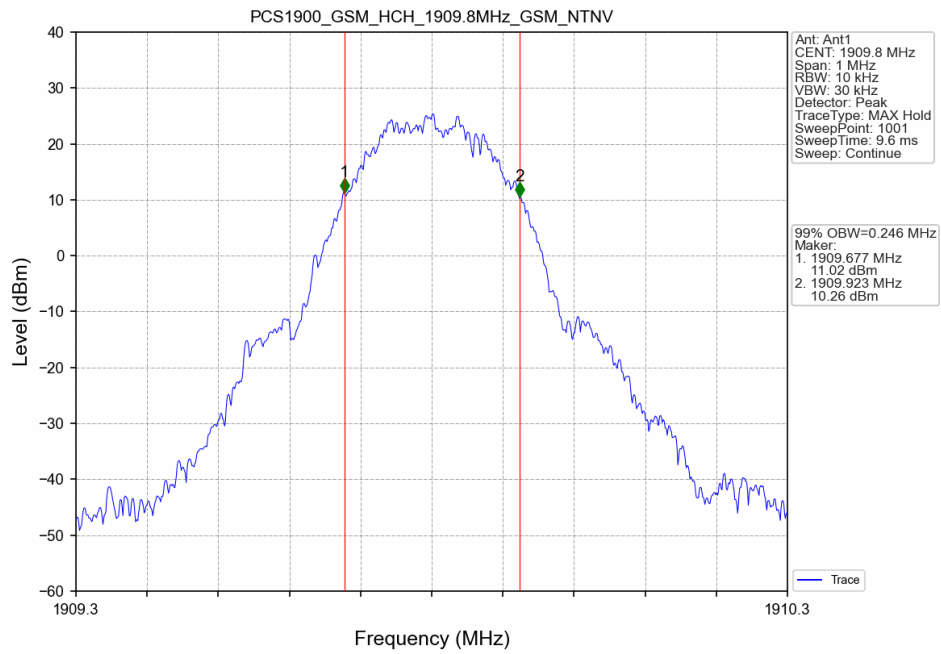
3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.248	/	Pass
			1880	0.245	/	Pass
			1909.8	0.246	/	Pass
	GPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.243	/	Pass
			1909.8	0.245	/	Pass
	EGPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.250	/	Pass
			1909.8	0.244	/	Pass

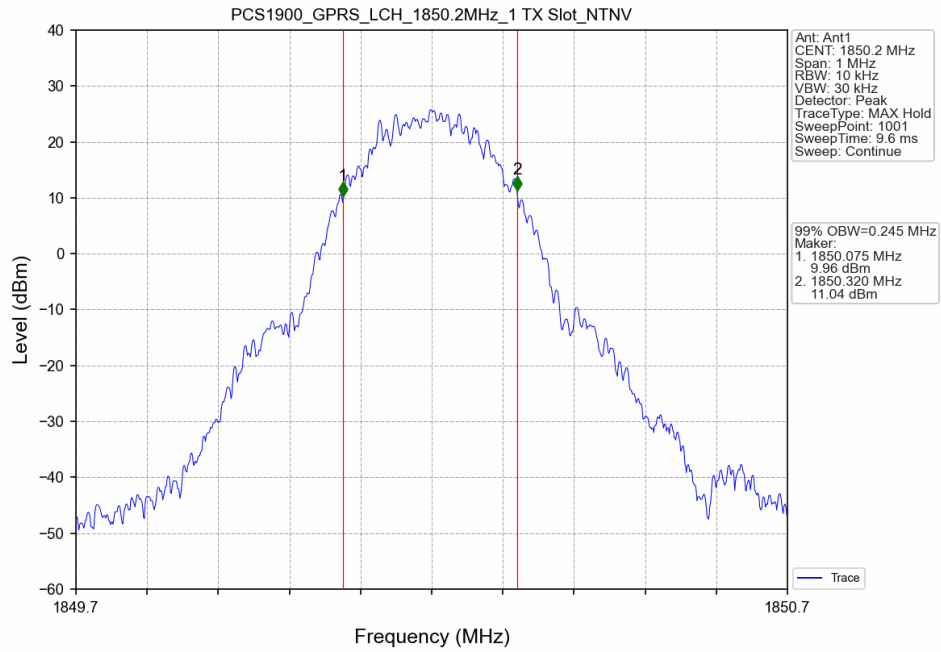
3.1.2 Test Graph



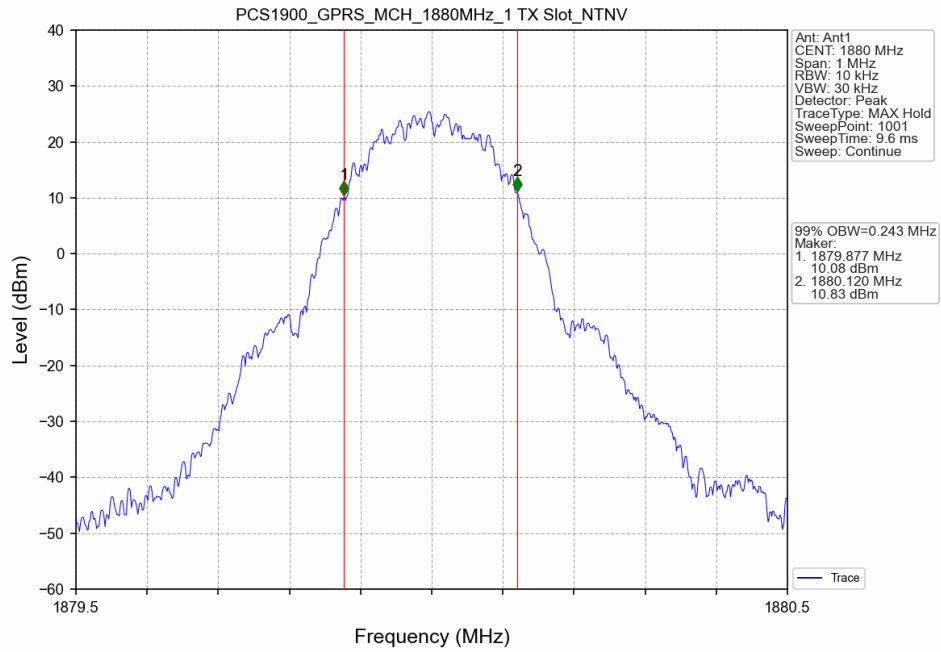
PCS1900 GSM HCH 1909.8MHz GSM NTN



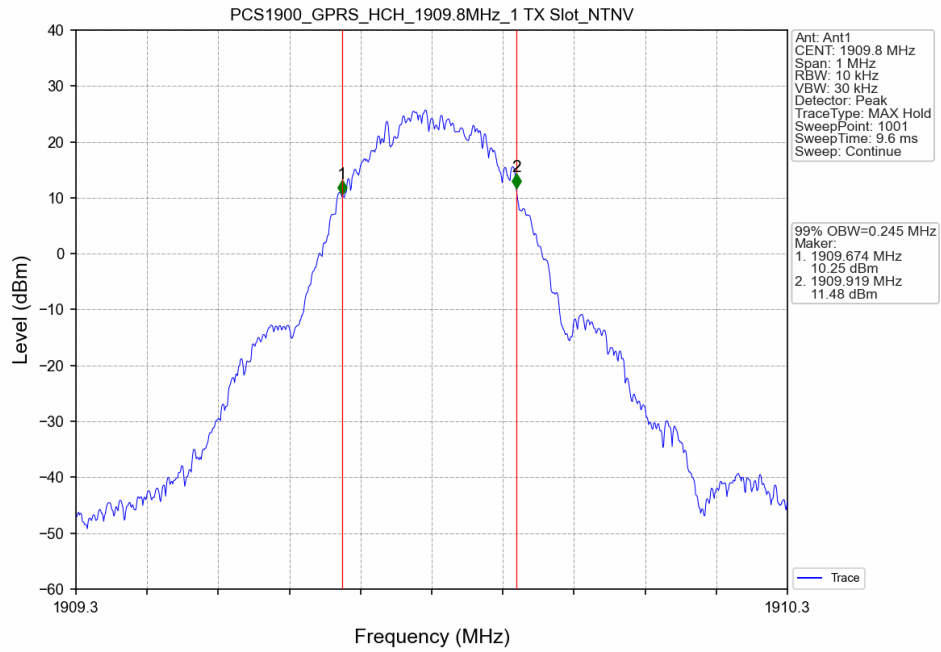
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



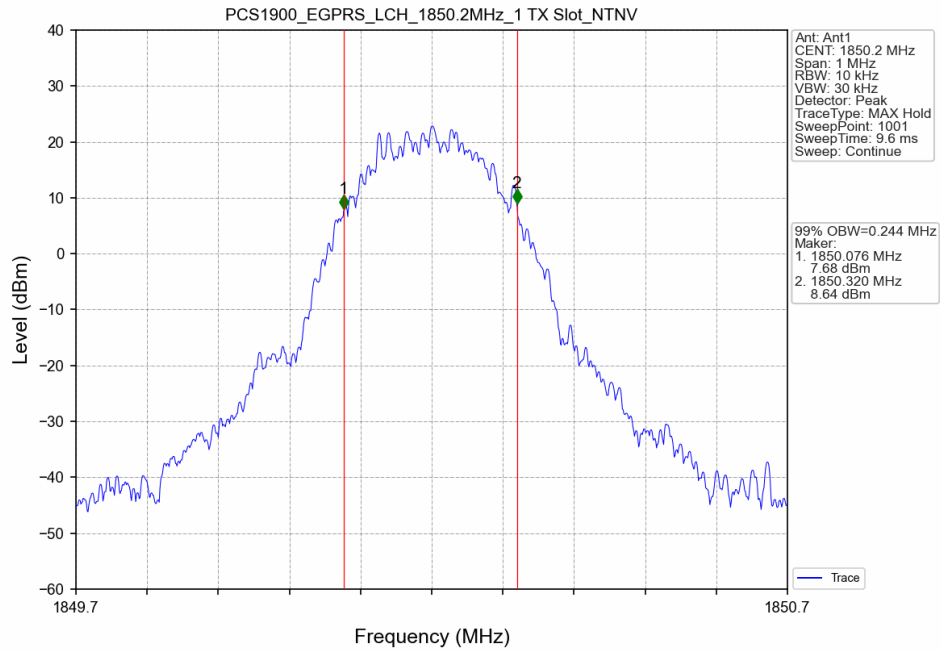
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



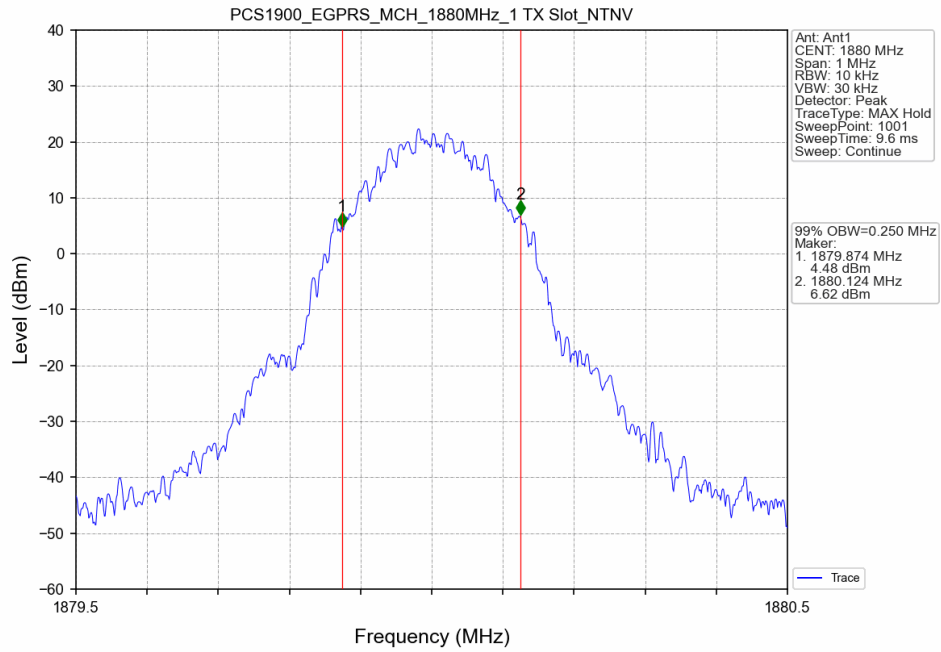
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



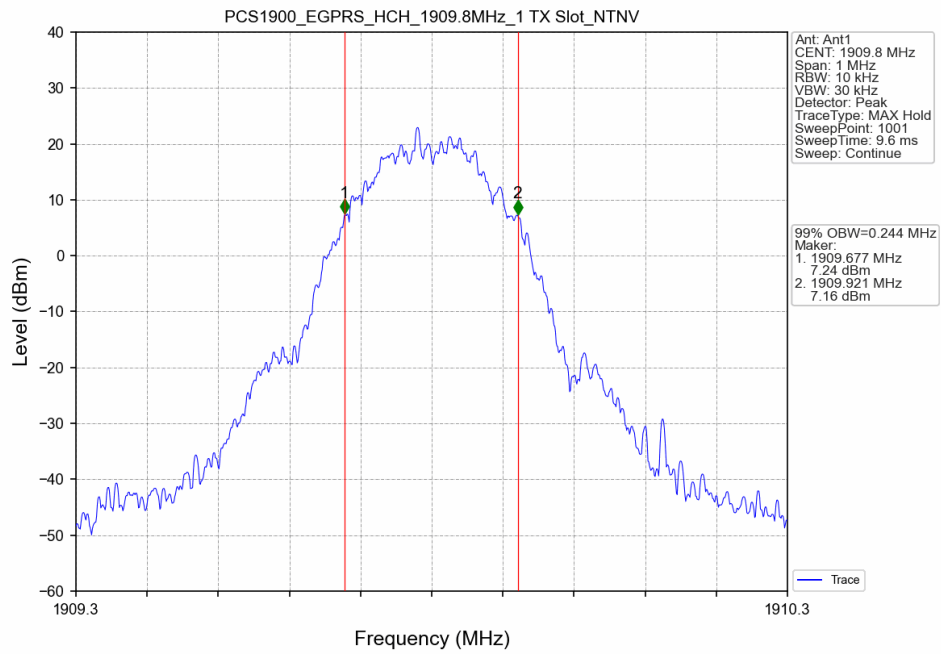
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV

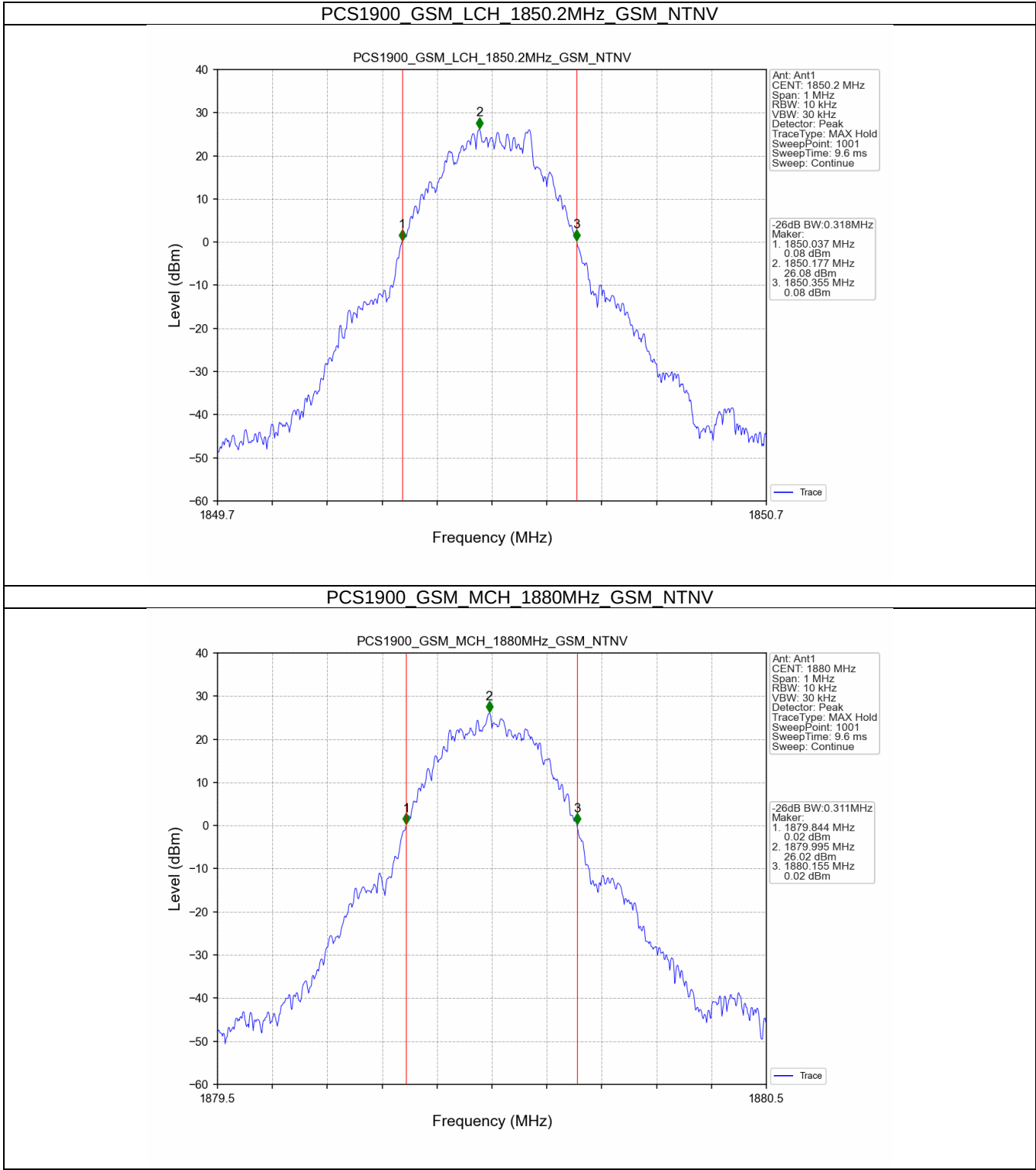


3.2 PCS1900_XDB

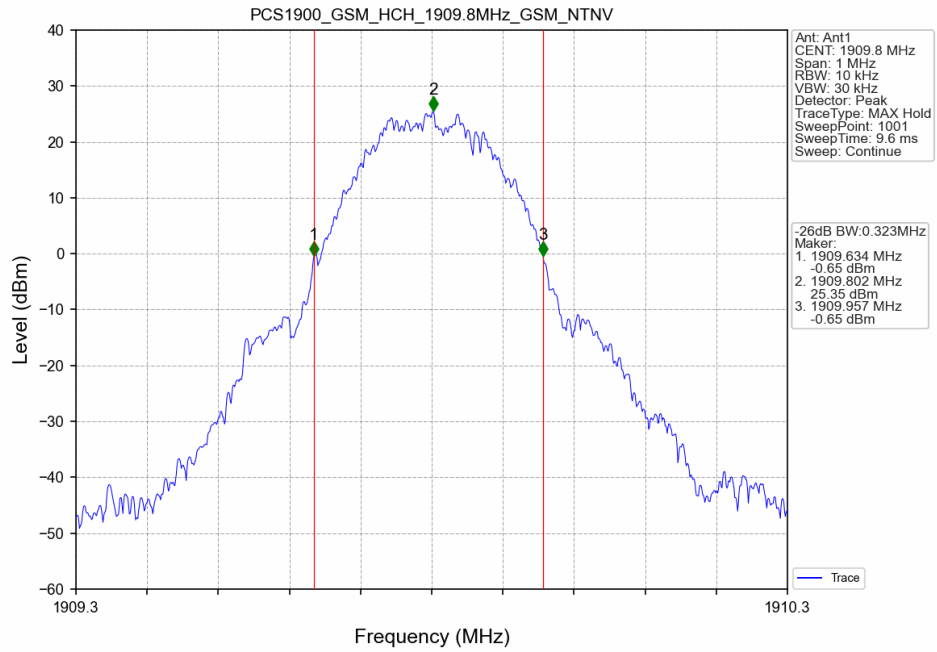
3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.318	/	Pass
			1880	0.311	/	Pass
			1909.8	0.323	/	Pass
	GPRS	1 TX Slot	1850.2	0.318	/	Pass
			1880	0.318	/	Pass
			1909.8	0.314	/	Pass
	EGPRS	1 TX Slot	1850.2	0.320	/	Pass
			1880	0.312	/	Pass
			1909.8	0.301	/	Pass

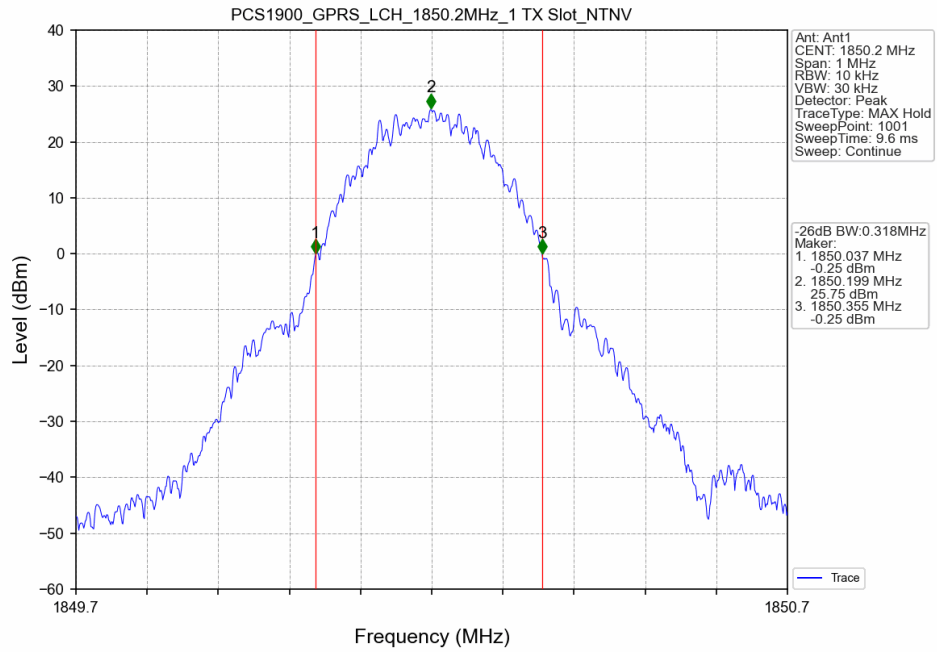
3.2.2 Test Graph



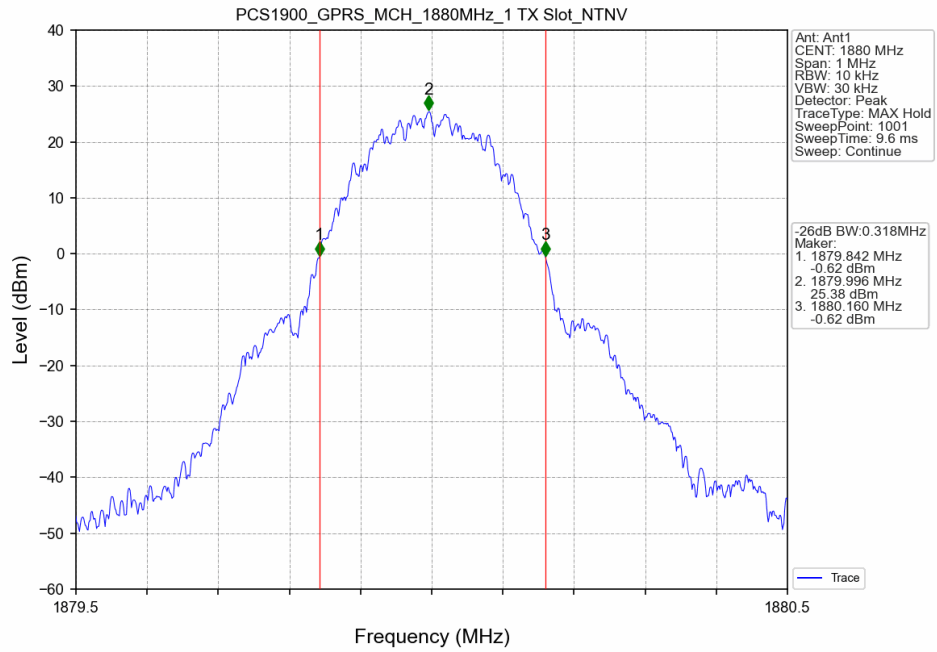
PCS1900 GSM HCH 1909.8MHz GSM NTN



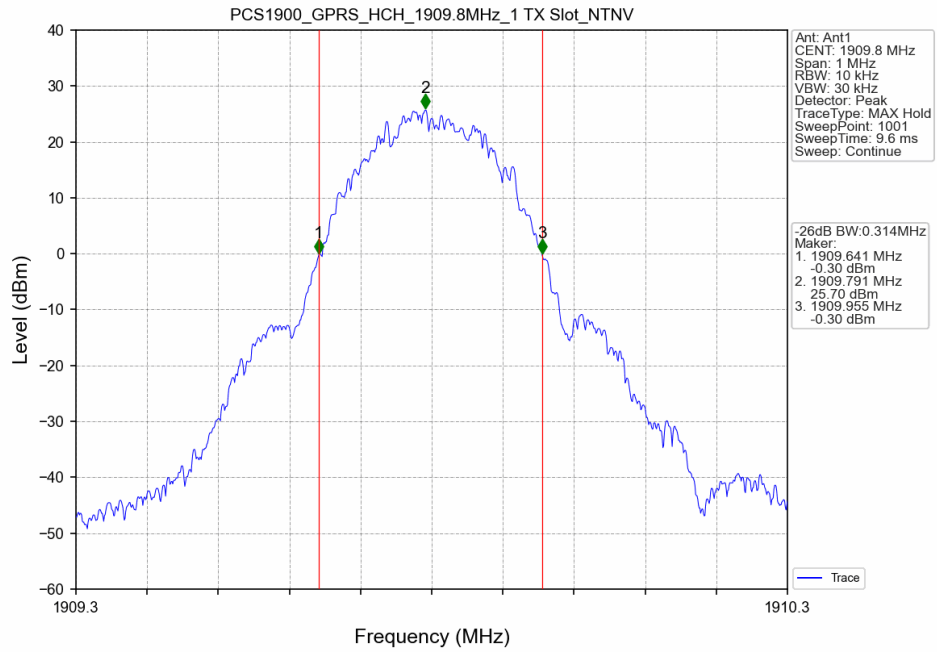
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



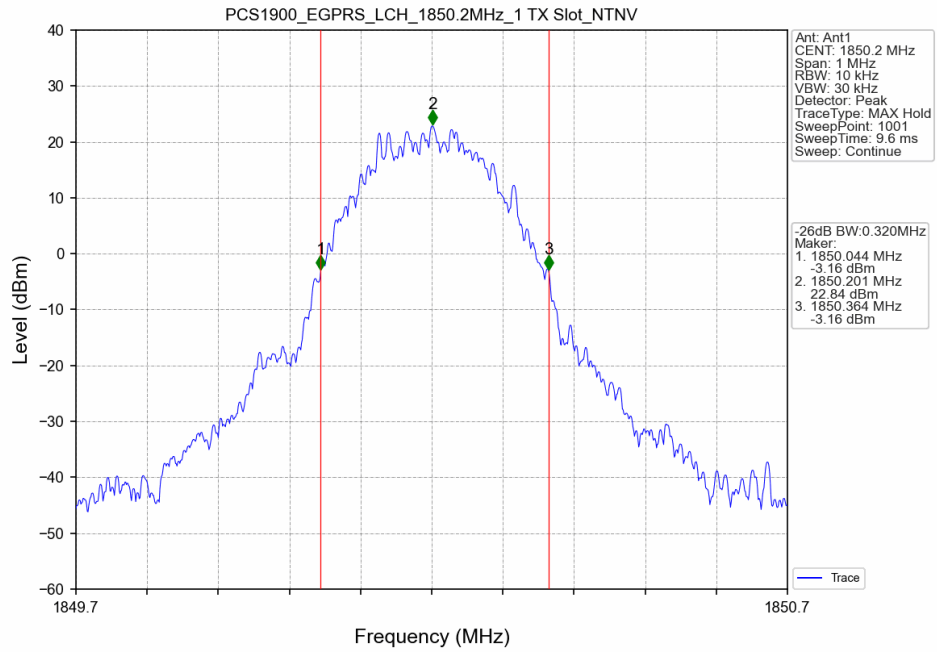
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



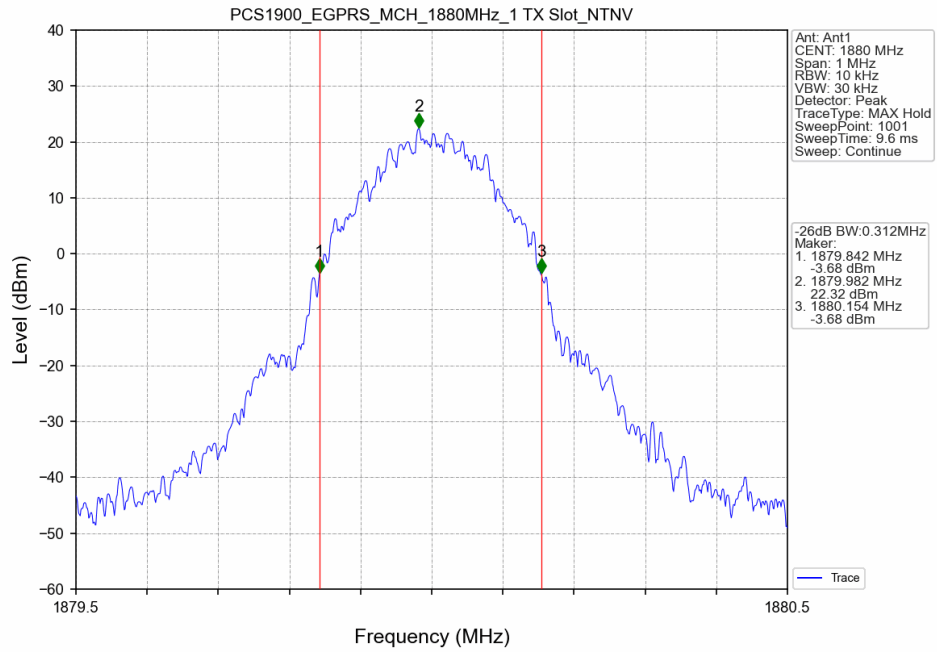
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTN



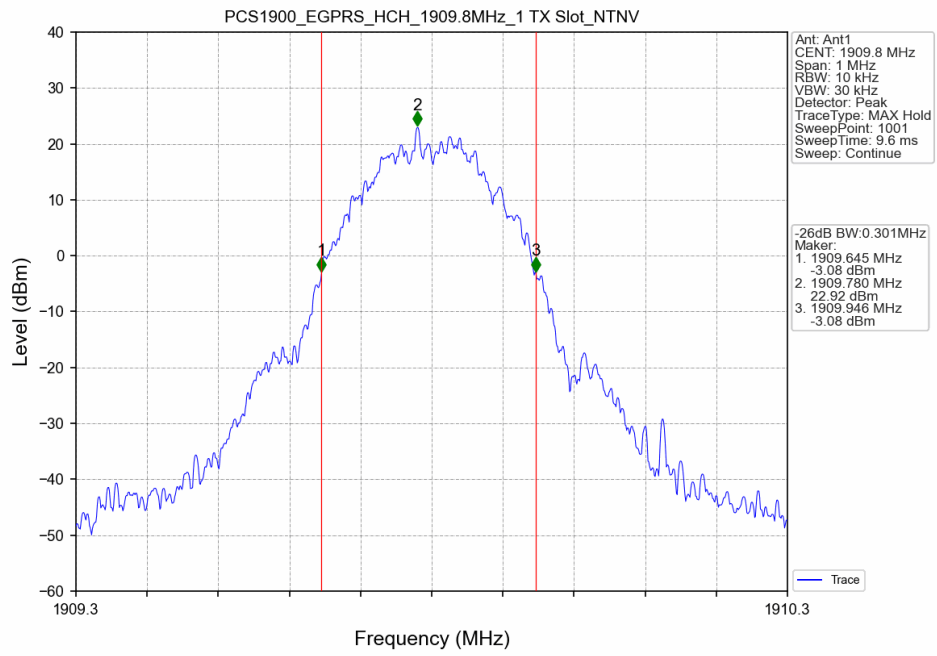
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



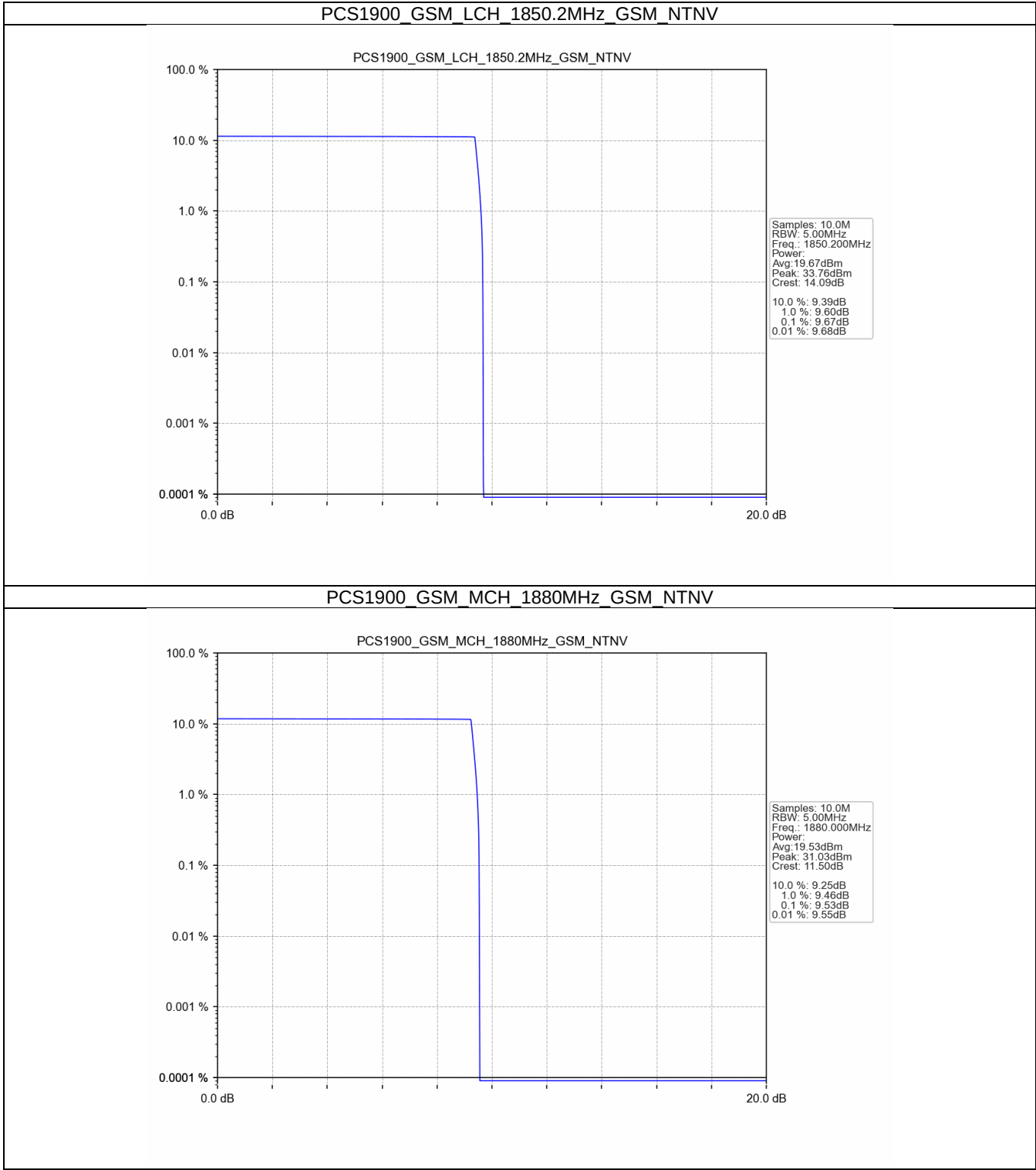
4. Peak-Average Ratio

4.1 PCS1900

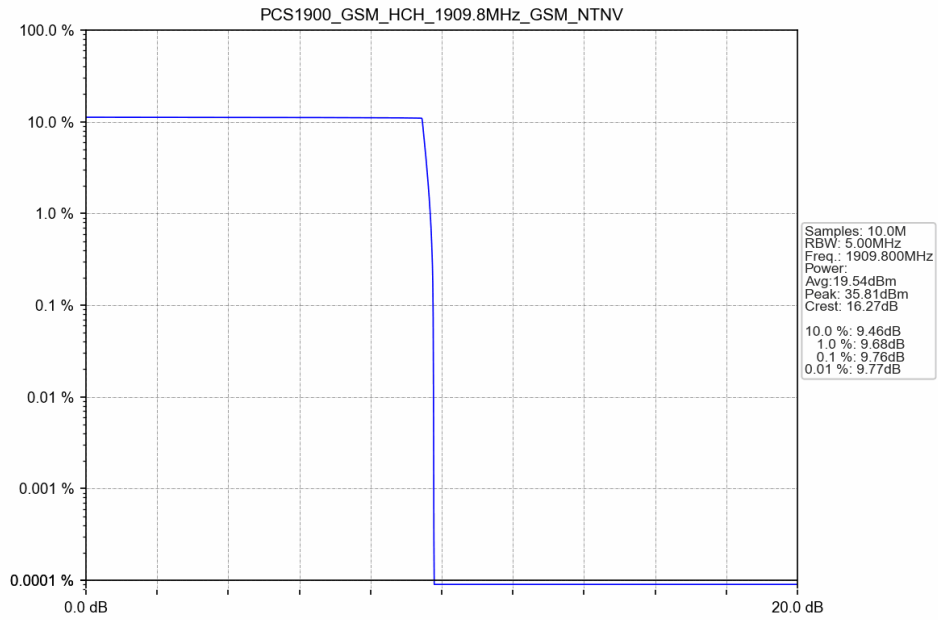
4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.67	<=13	Pass
			1880	9.53	<=13	Pass
			1909.8	9.76	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.82	<=13	Pass
			1880	3.78	<=13	Pass
			1909.8	3.77	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.40	<=13	Pass
			1880	9.27	<=13	Pass
			1909.8	9.63	<=13	Pass

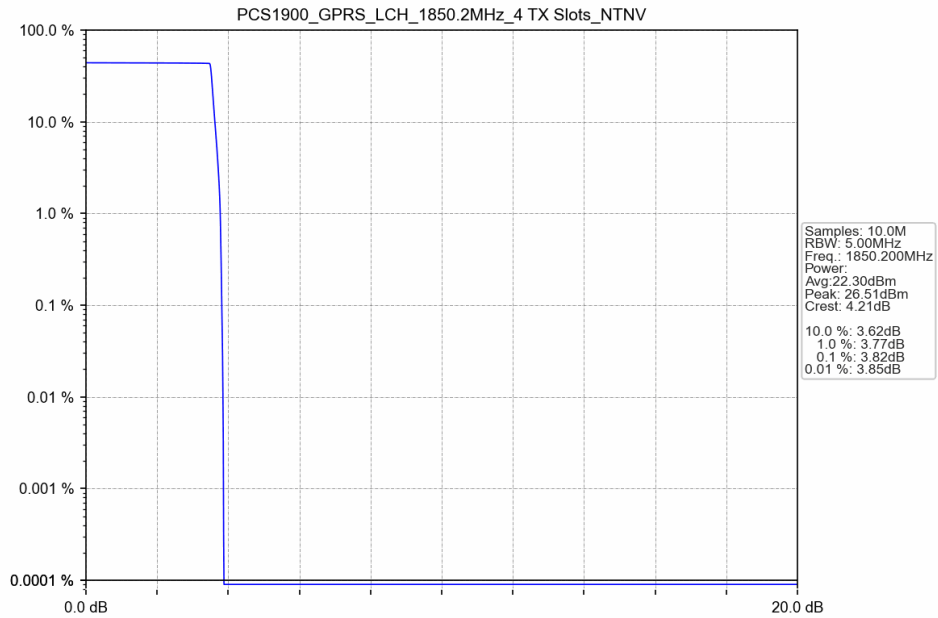
4.1.2 Test Graph



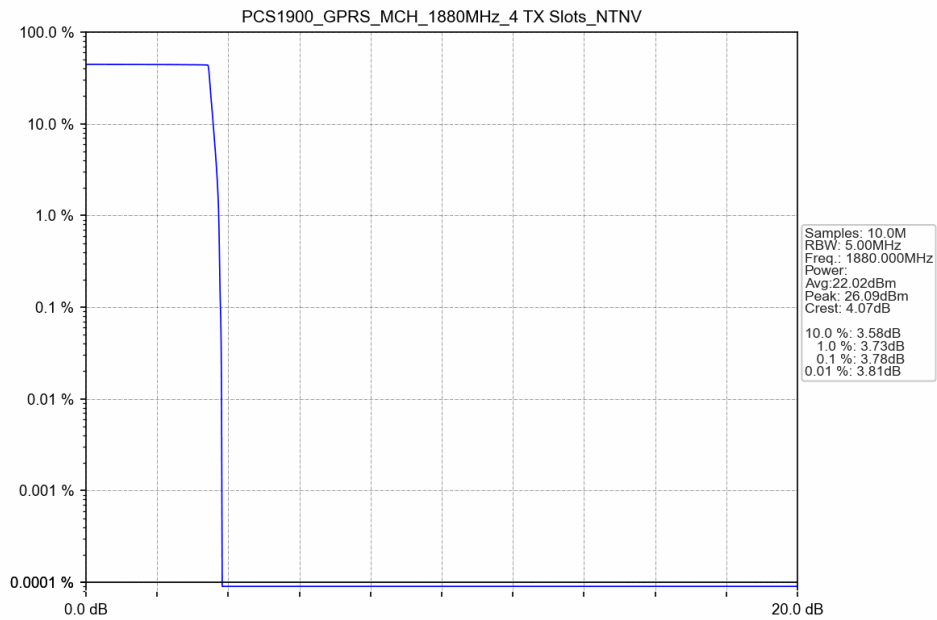
PCS1900 GSM HCH 1909.8MHz GSM NTV



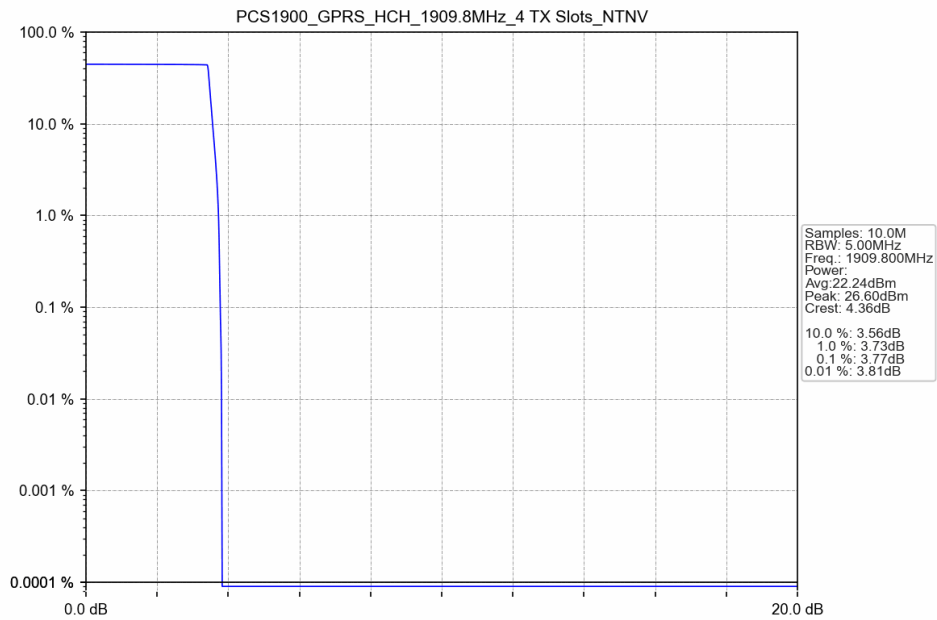
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTV



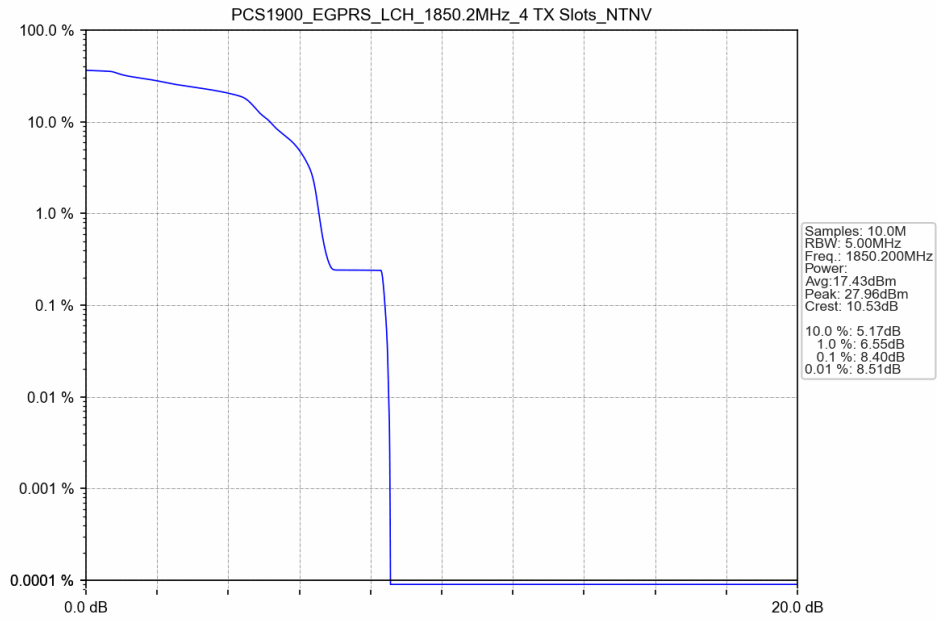
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



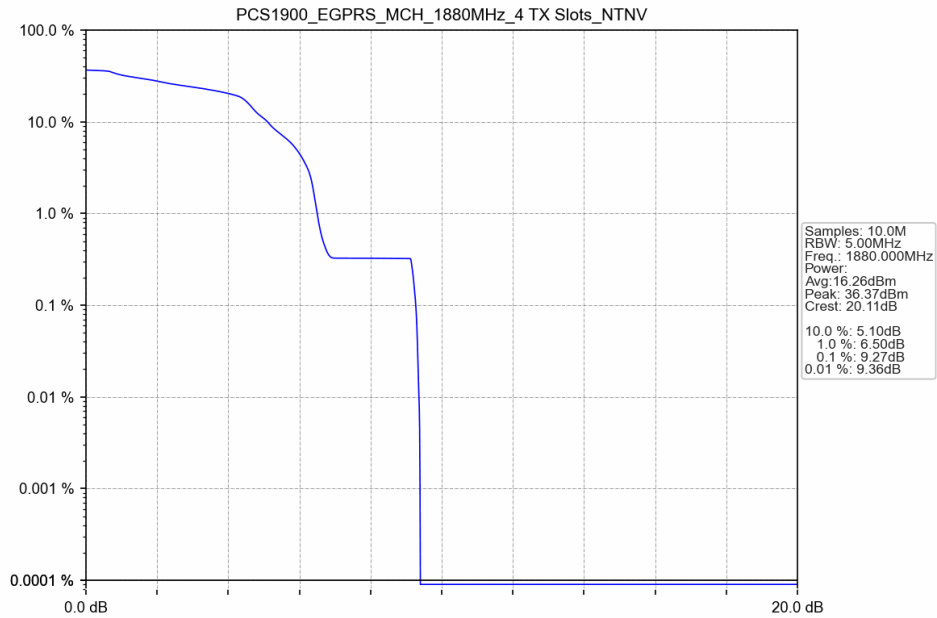
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



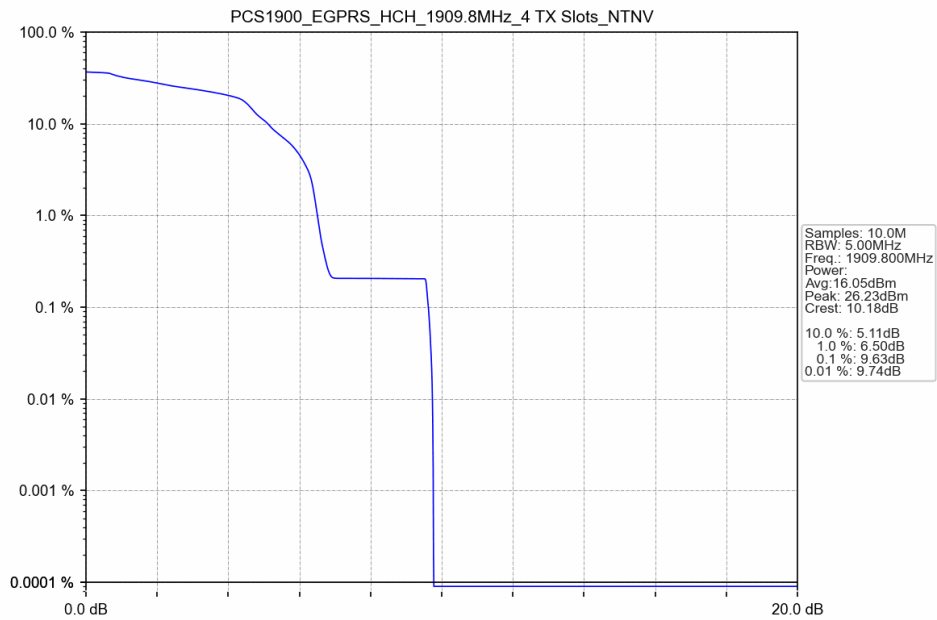
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTN



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTN



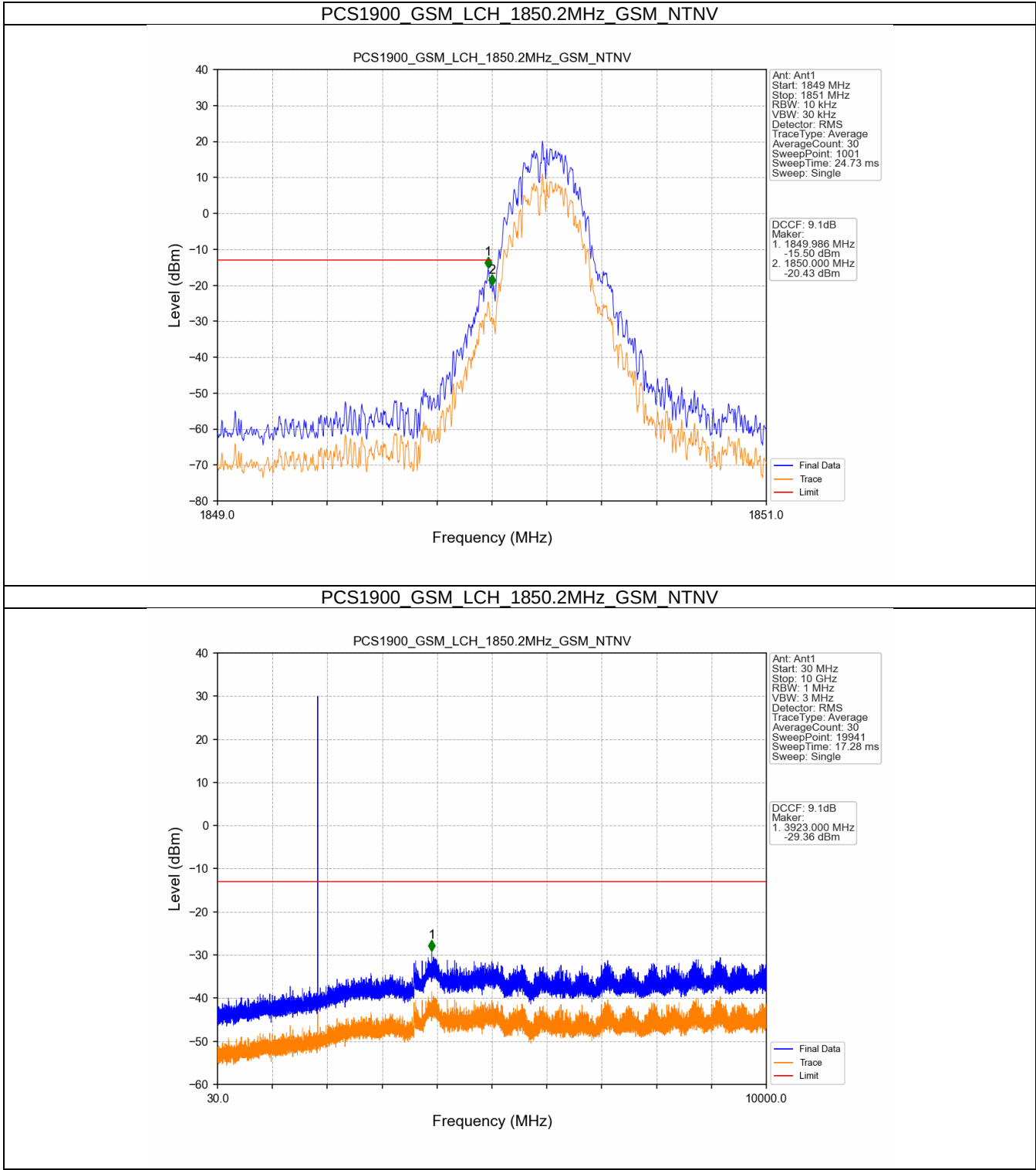
5. Spurious Emission

5.1 PCS1900

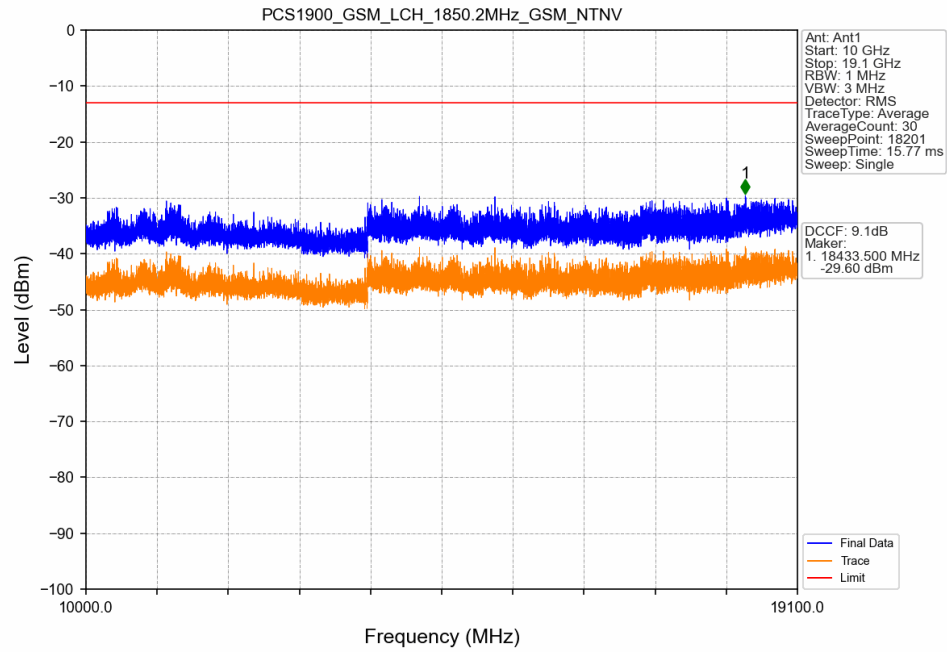
5.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	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

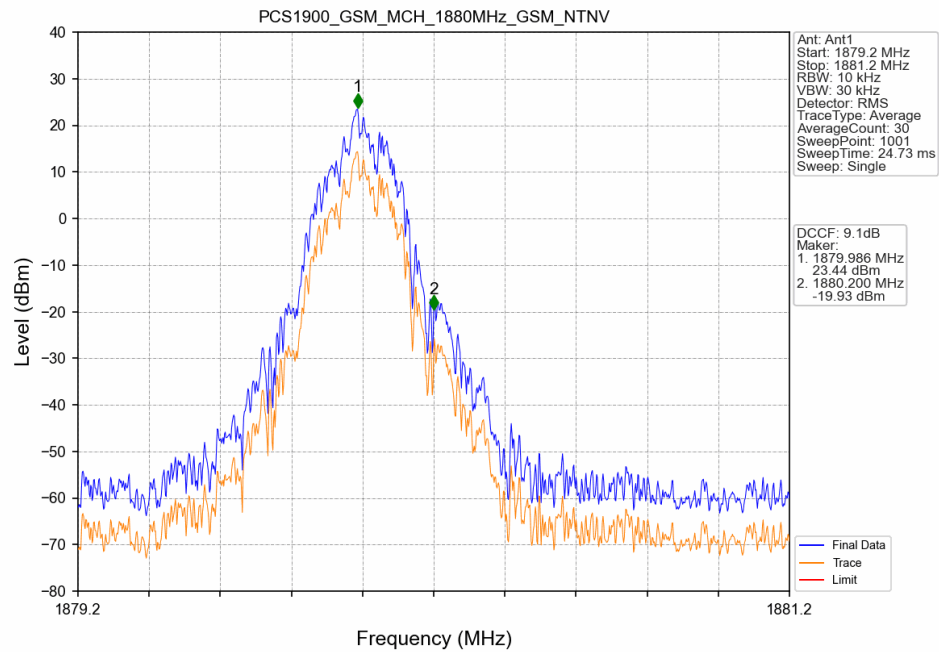
5.1.2 Test Graph



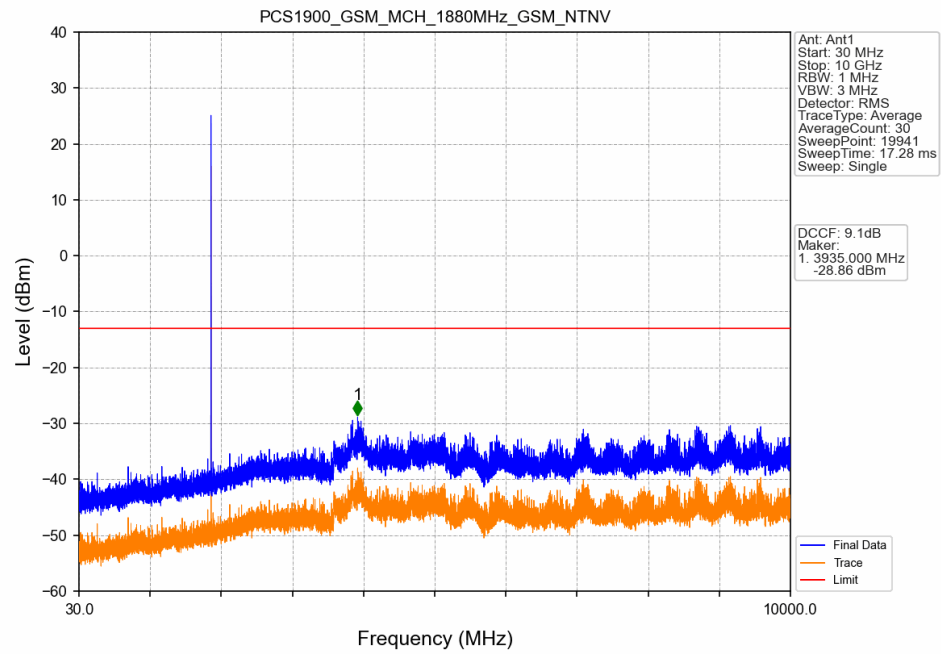
PCS1900 GSM LCH 1850.2MHz GSM NTN



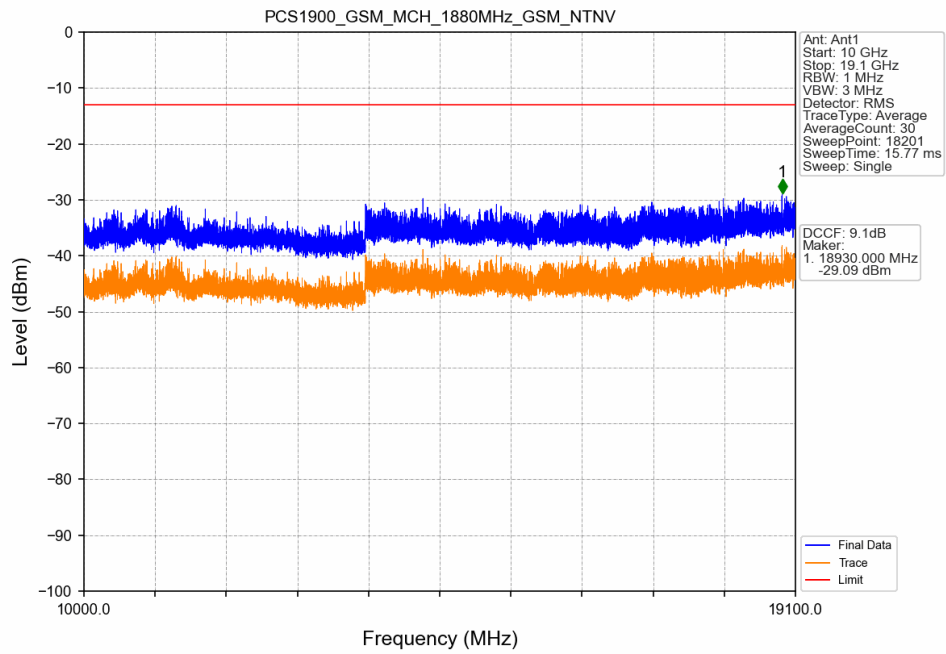
PCS1900 GSM MCH 1880MHz GSM NTN



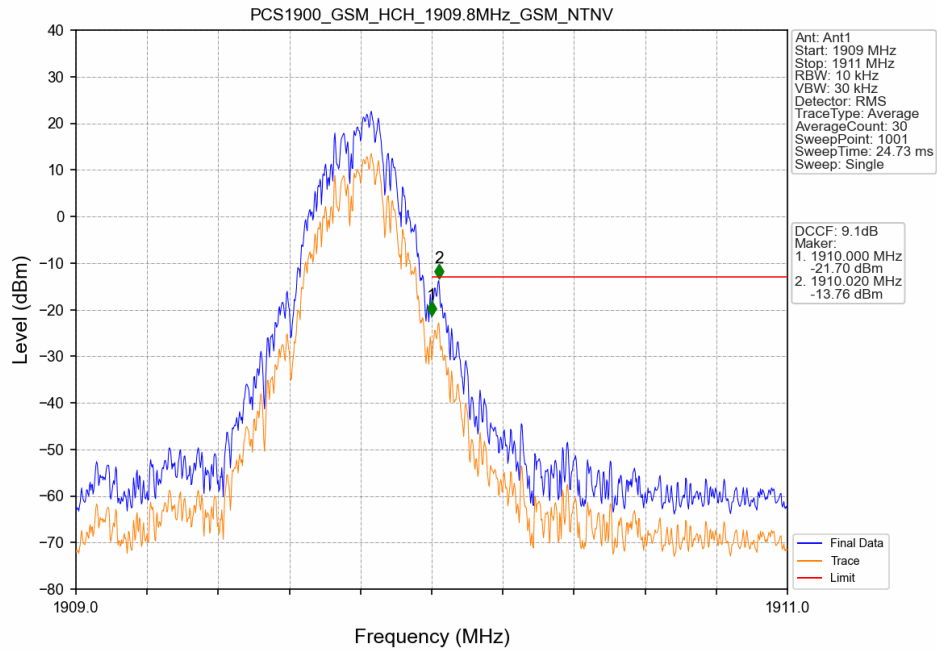
PCS1900 GSM MCH 1880MHz GSM NTNV



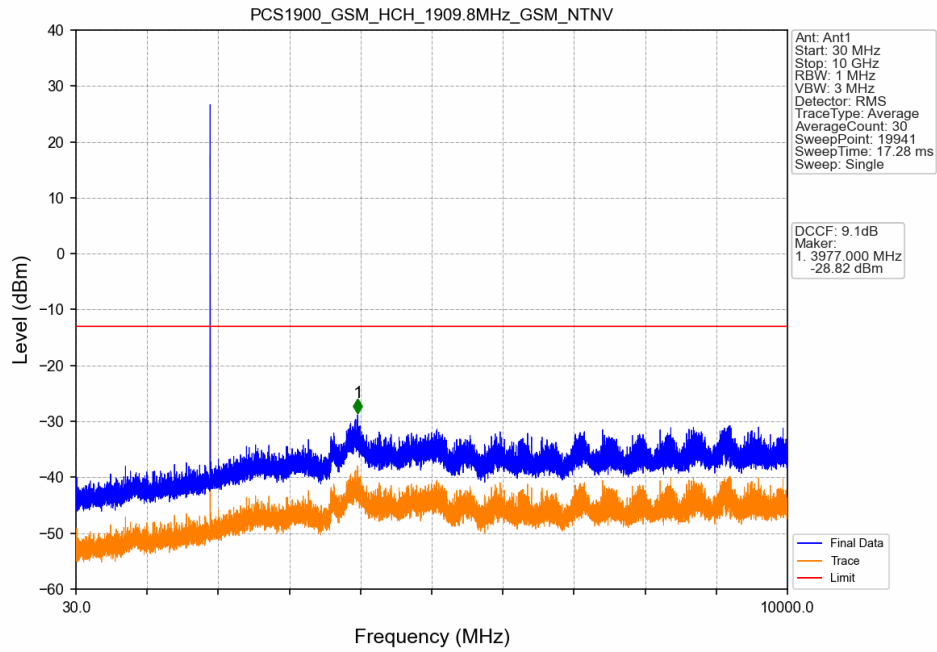
PCS1900 GSM MCH 1880MHz GSM NTNV



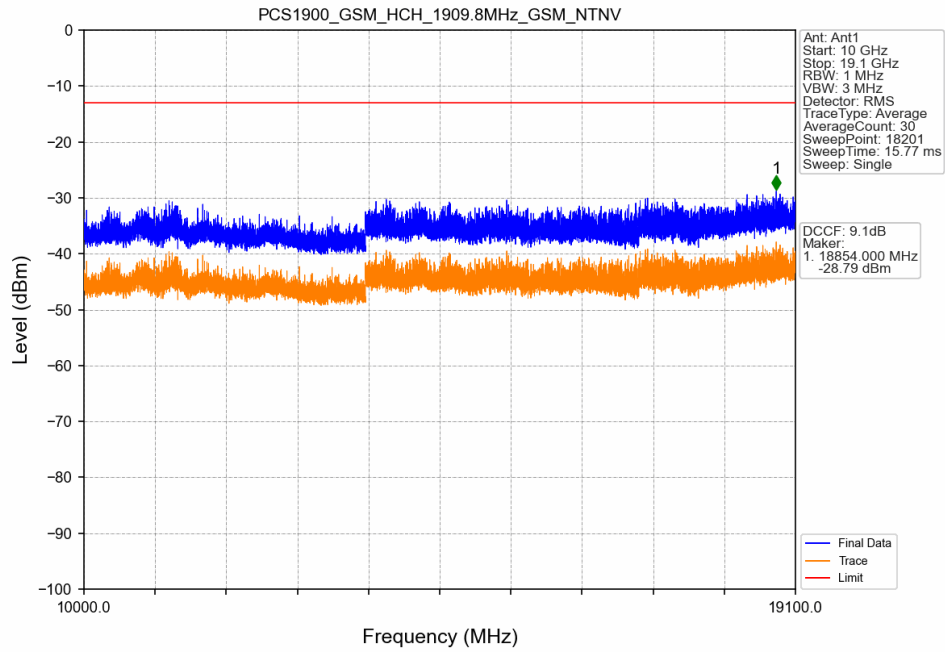
PCS1900 GSM HCH 1909.8MHz GSM NTN



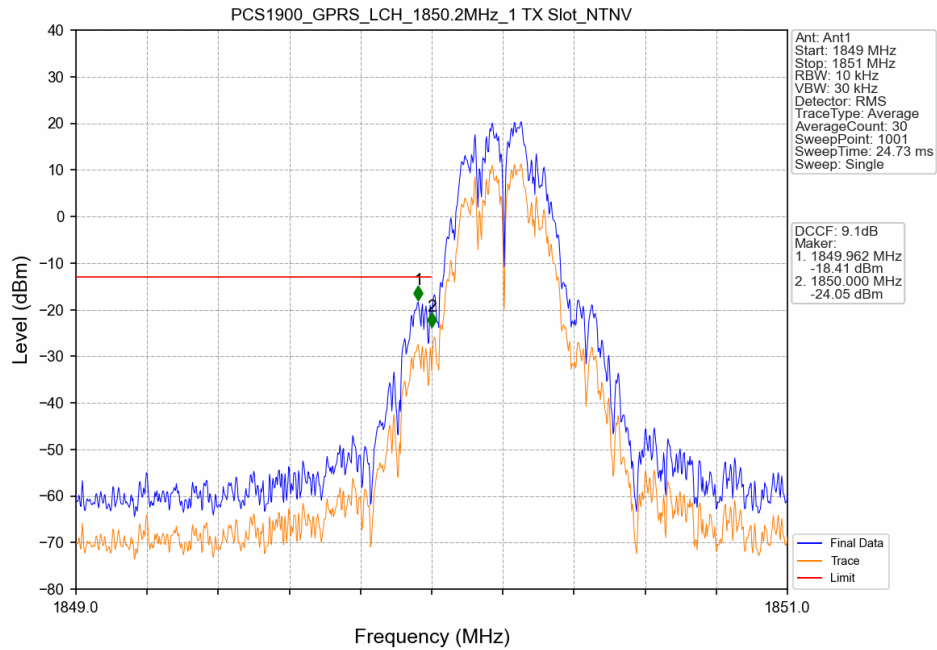
PCS1900 GSM HCH 1909.8MHz GSM NTN



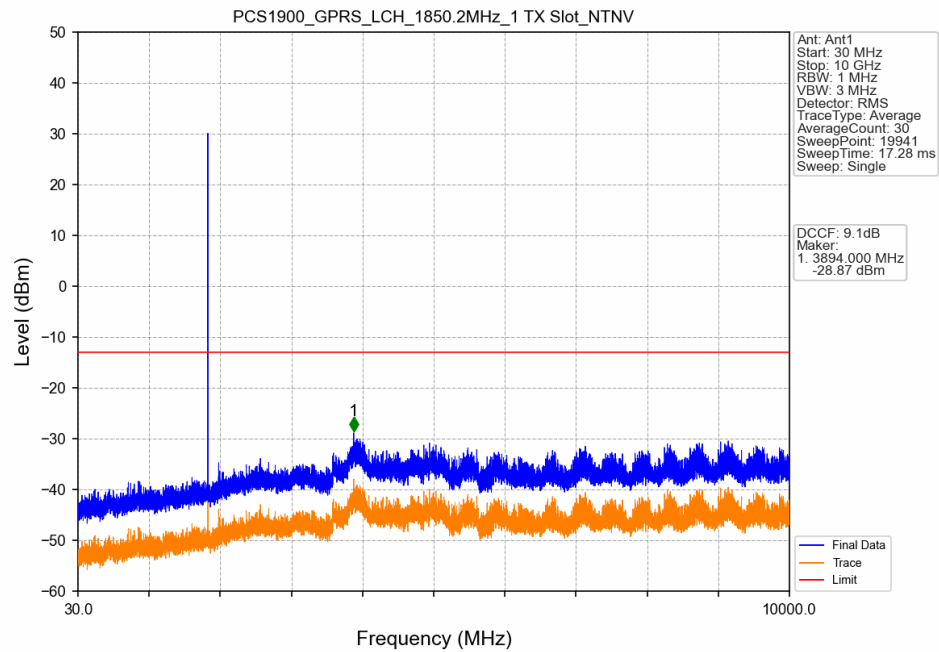
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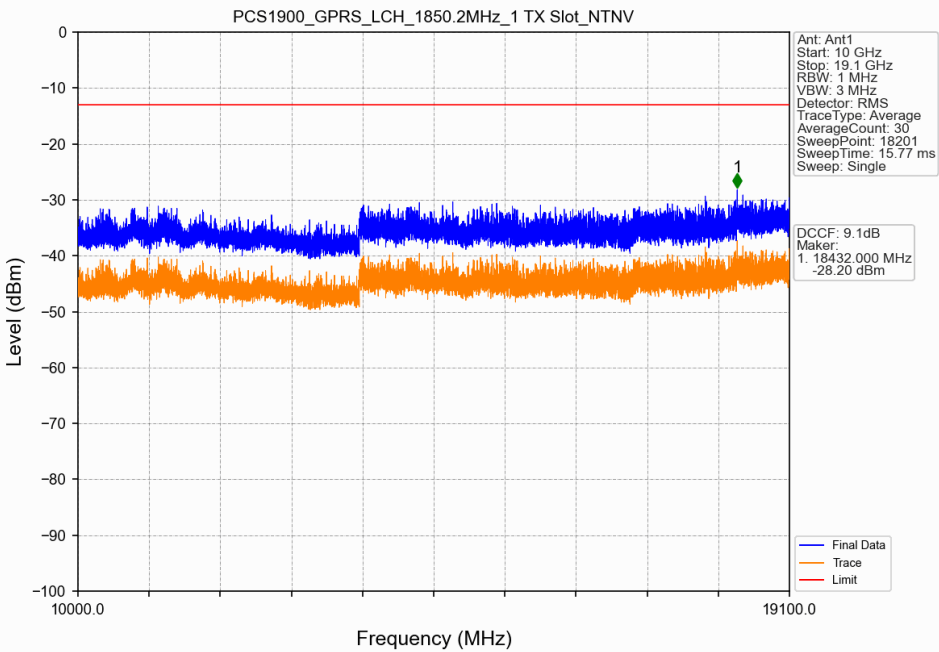
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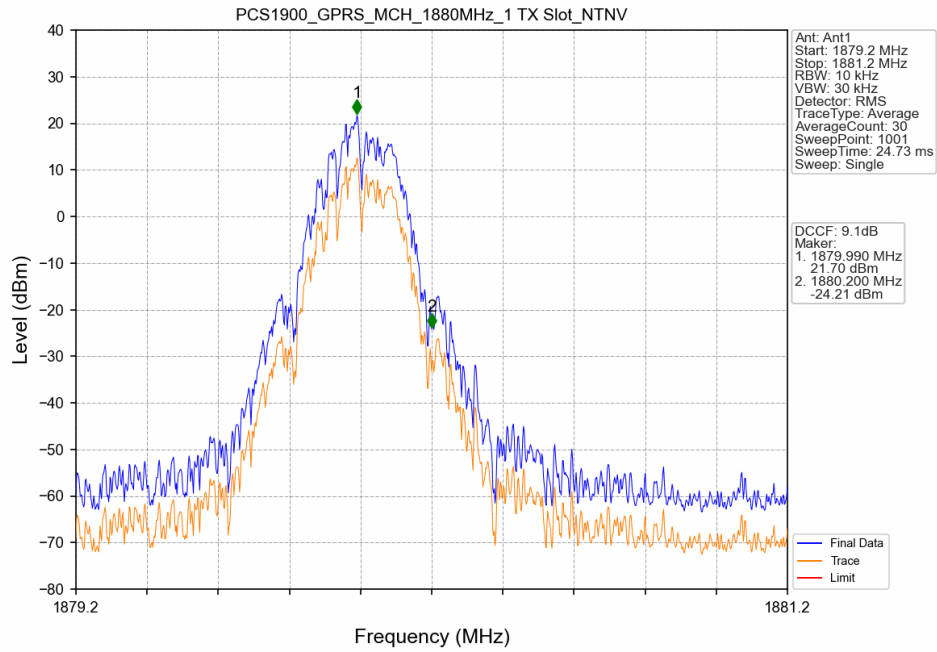
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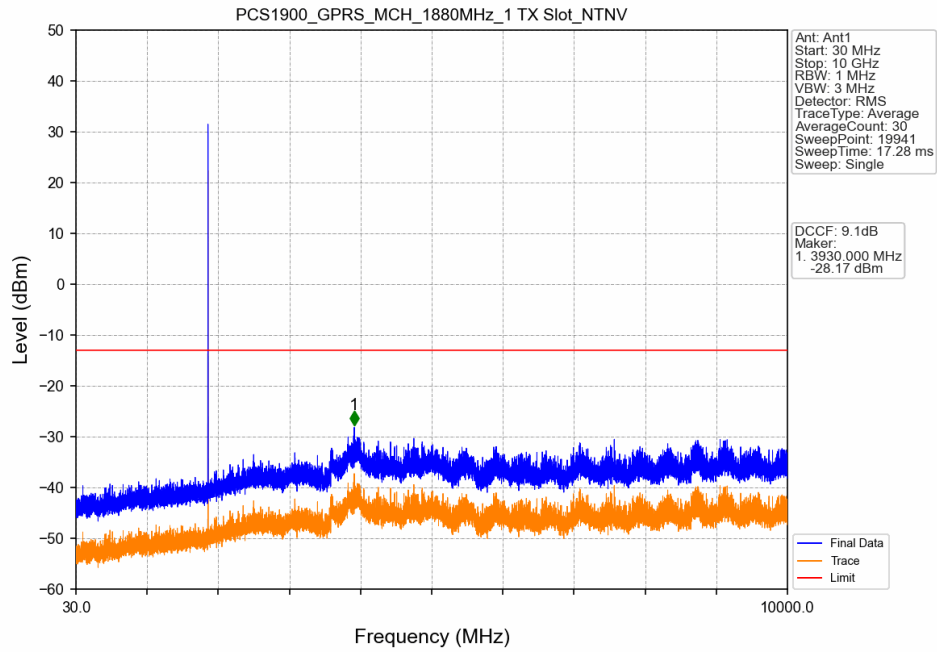
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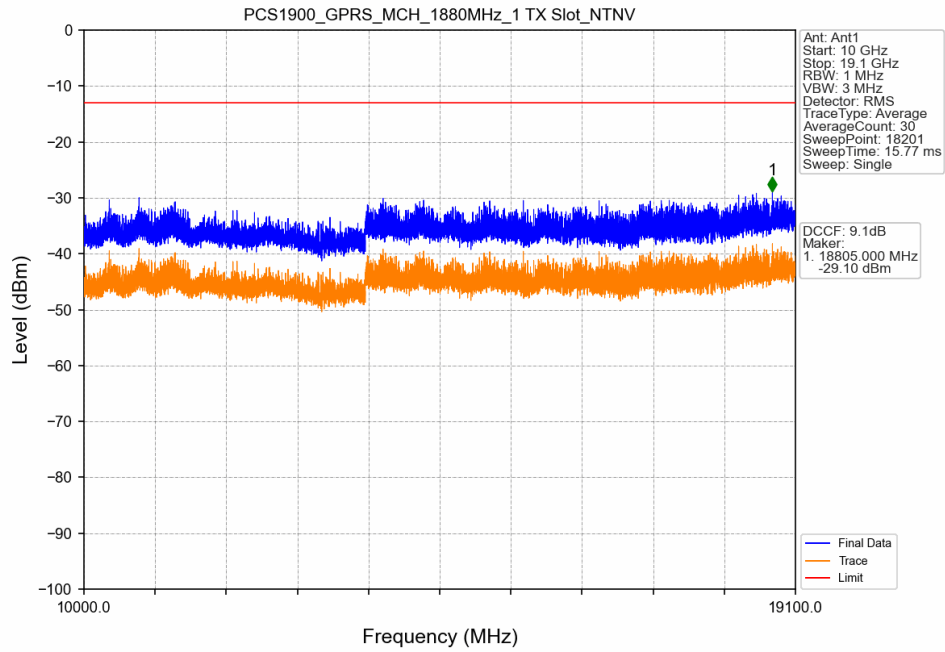
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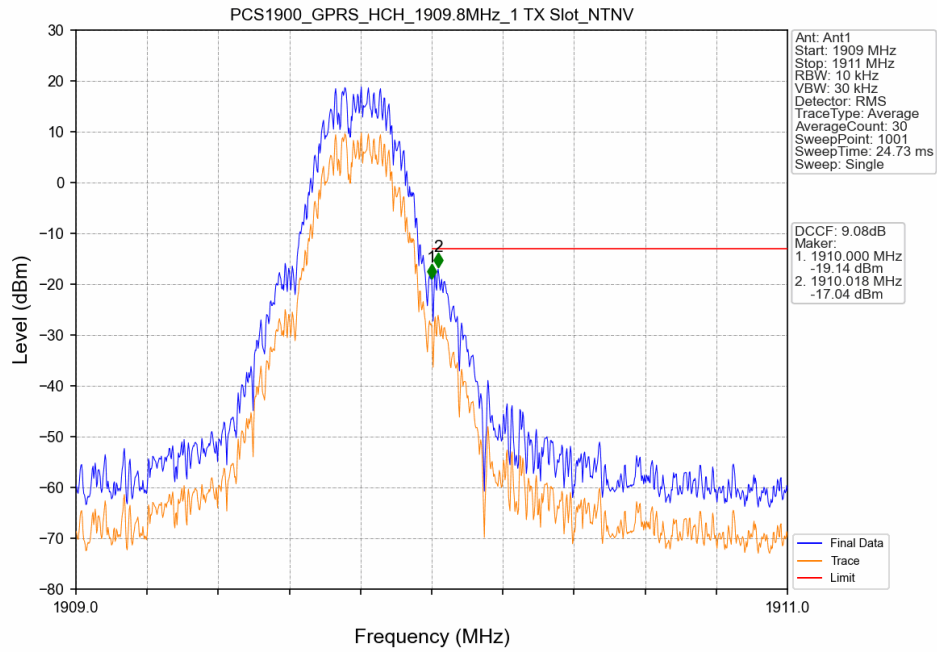
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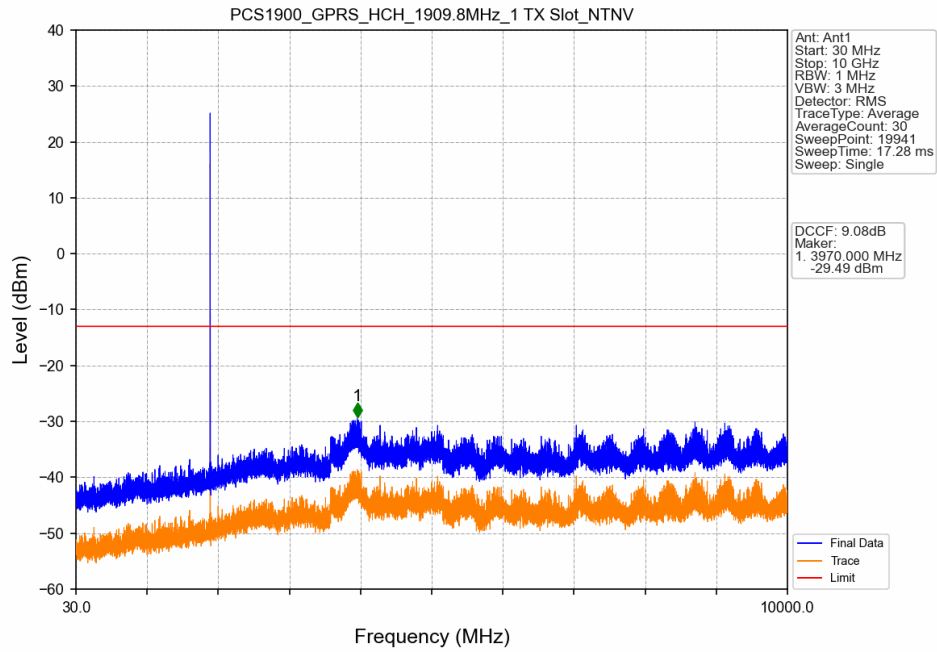
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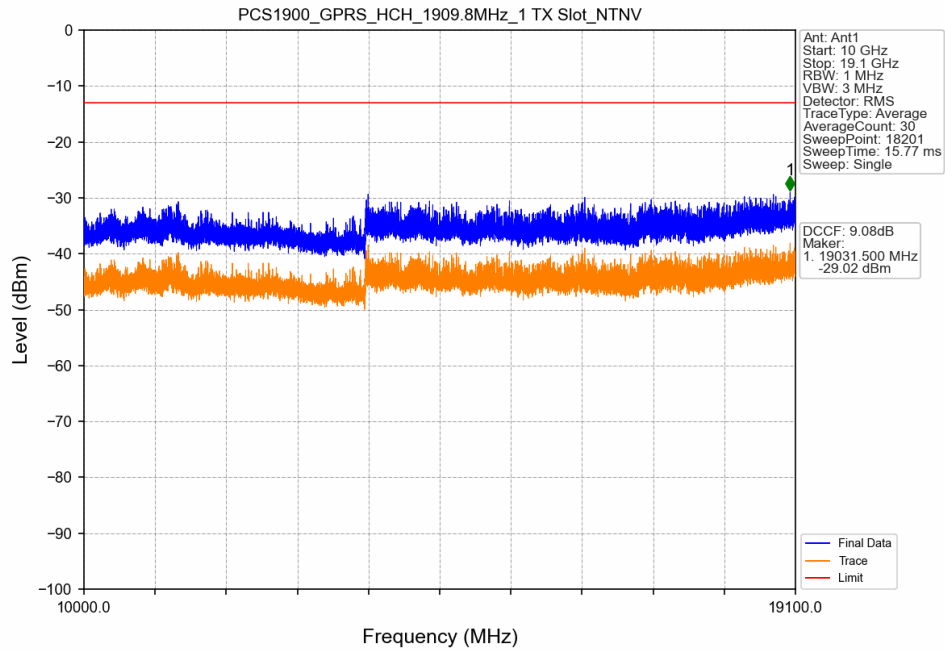
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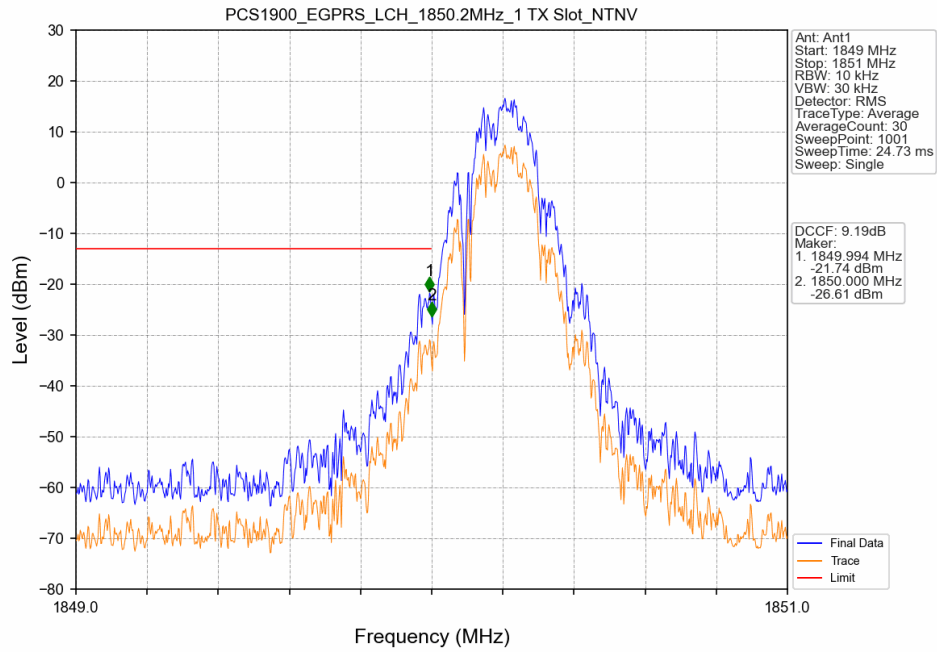
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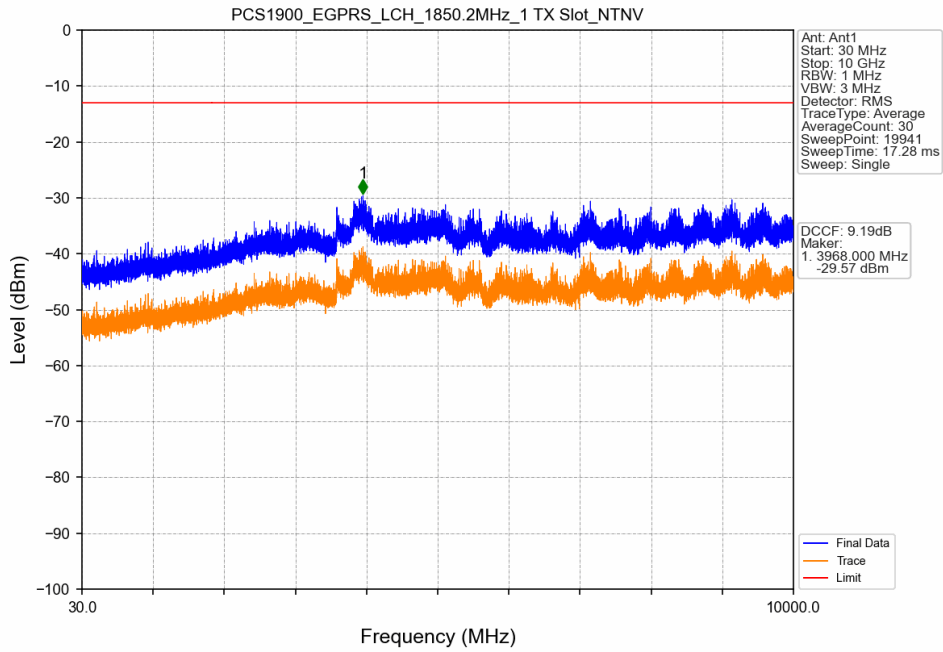
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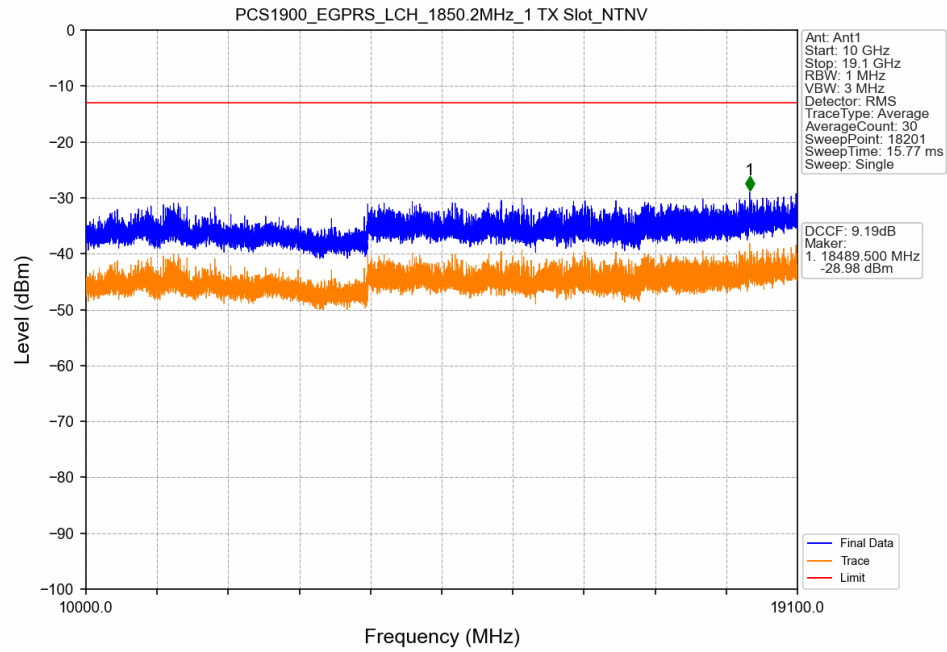
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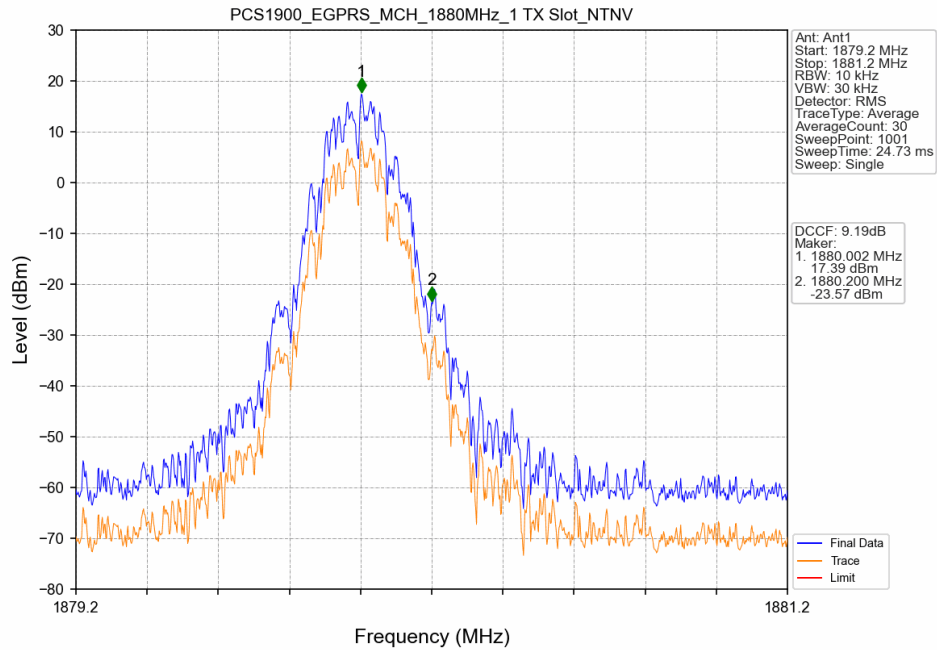
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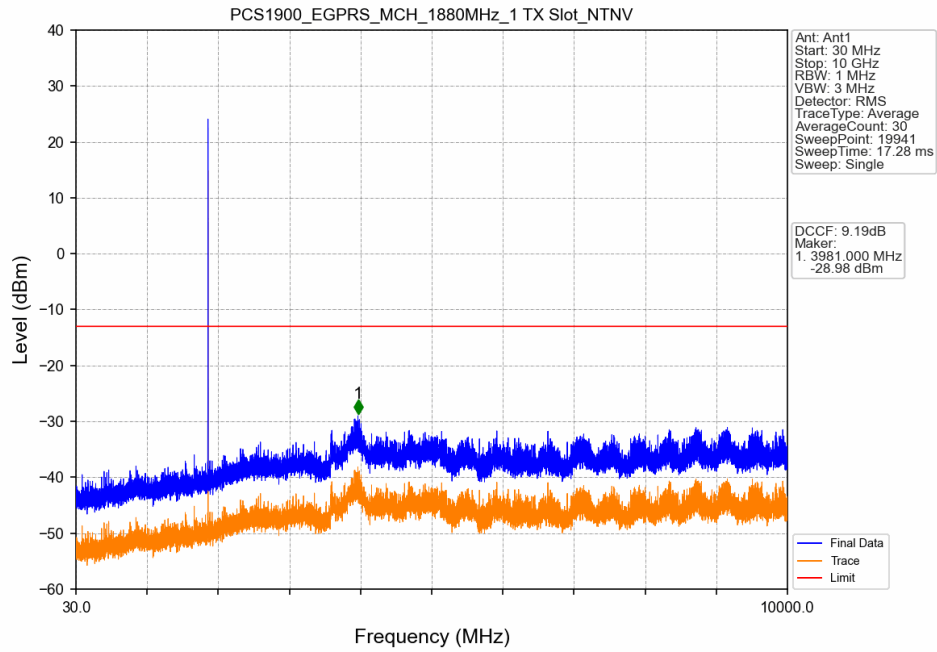
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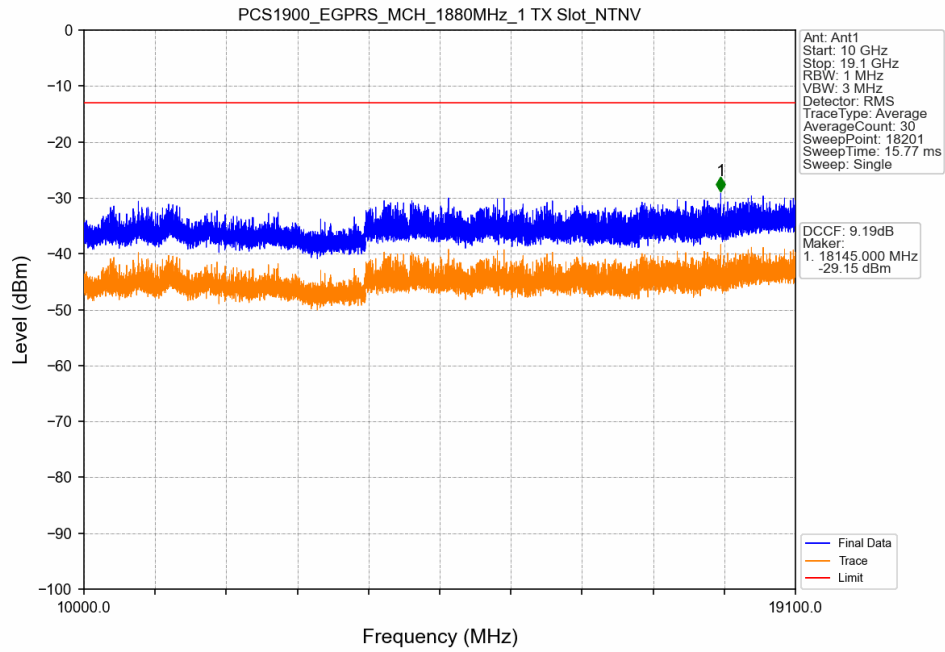
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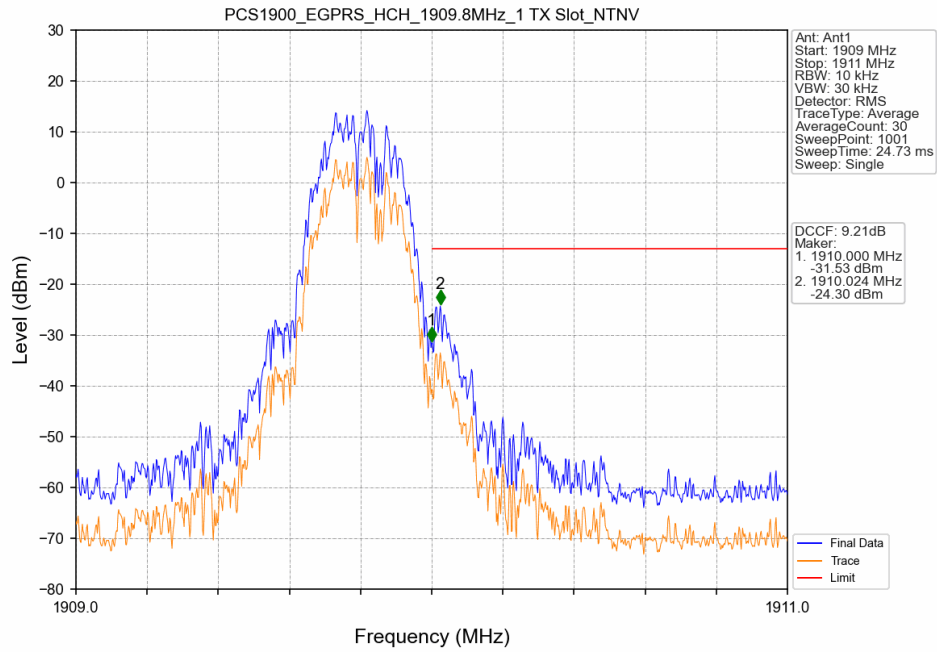
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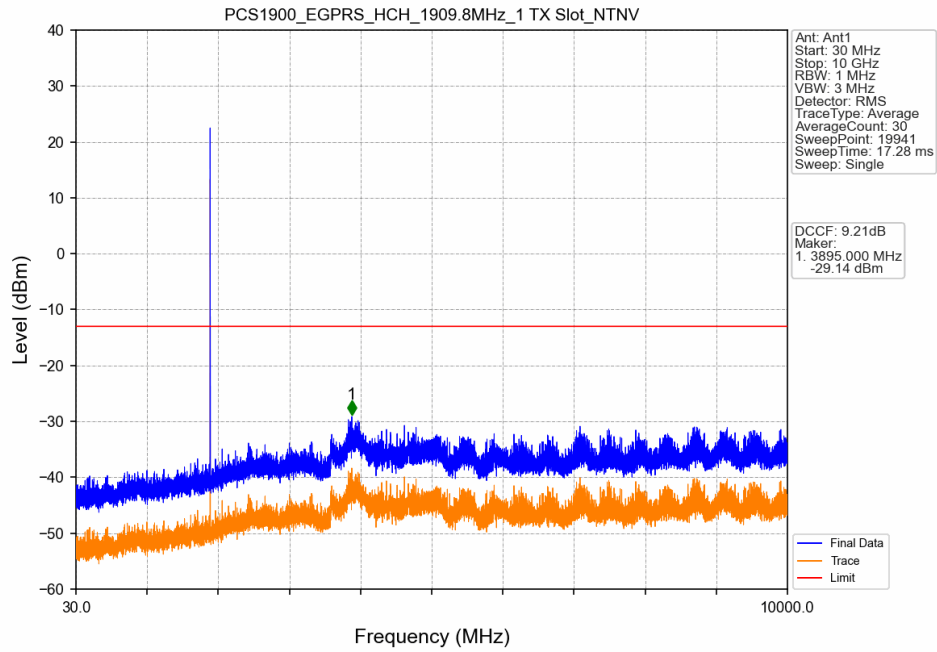
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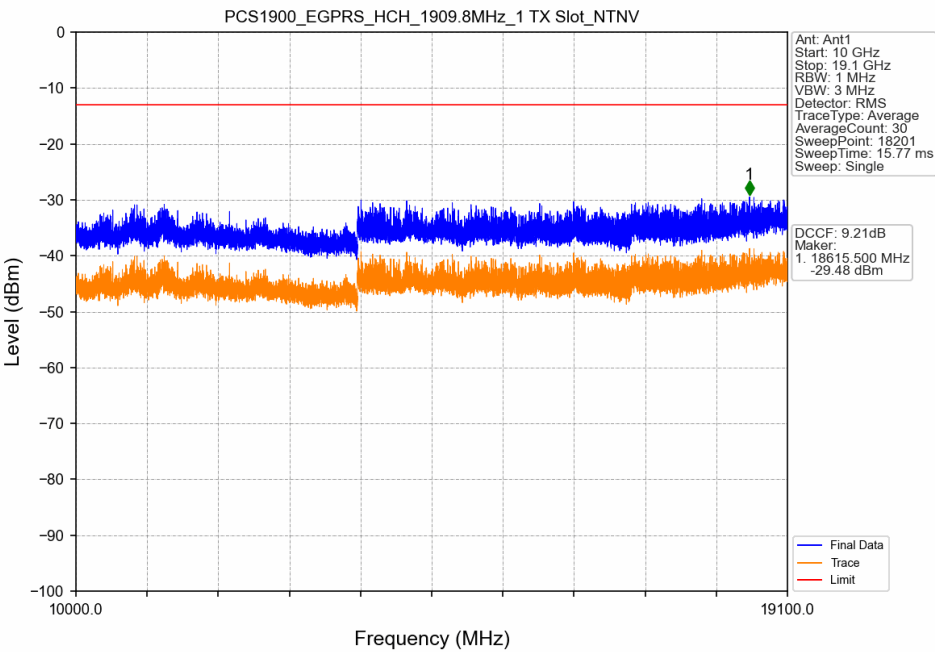
PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



6. Form731

6.1 Form731_Power

6.1.1 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	0.8590	0.0233	ppm	248KGXW	24E	29.34
PCS1900	0.2	1850.2	1909.8	0.3846	0.0120	ppm	250KG7W	24E	25.85

6.2 Form731_EIRP

6.2.1 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	0.5943	0.0233	ppm	248KGXW	24E	27.74
PCS1900	0.2	1850.2	1909.8	0.2661	0.0120	ppm	250KG7W	24E	24.25