

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

Band: PCS1900									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	1850.2	29.08	-0.25	28.83	<=33.01	Pass	
			1880	29.01	-0.25	28.76	<=33.01	Pass	
			1909.8	29.07	-0.25	28.82	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	29.21	-0.25	28.96	<=33.01	Pass	
		2 TX Slots	1850.2	28.77	-0.25	28.52	<=33.01	Pass	
		3 TX Slots	1850.2	26.64	-0.25	26.39	<=33.01	Pass	
		4 TX Slots	1850.2	25.90	-0.25	25.65	<=33.01	Pass	
		1 TX Slot	1880	29.10	-0.25	28.85	<=33.01	Pass	
		2 TX Slots	1880	28.62	-0.25	28.37	<=33.01	Pass	
		3 TX Slots	1880	26.48	-0.25	26.23	<=33.01	Pass	
		4 TX Slots	1880	25.65	-0.25	25.40	<=33.01	Pass	
		1 TX Slot	1909.8	29.15	-0.25	28.90	<=33.01	Pass	
		2 TX Slots	1909.8	28.71	-0.25	28.46	<=33.01	Pass	
		3 TX Slots	1909.8	26.52	-0.25	26.27	<=33.01	Pass	
		4 TX Slots	1909.8	25.73	-0.25	25.48	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	25.67	-0.25	25.42	<=33.01	Pass
			2 TX Slots	1850.2	24.56	-0.25	24.31	<=33.01	Pass
			3 TX Slots	1850.2	22.55	-0.25	22.30	<=33.01	Pass
			4 TX Slots	1850.2	21.60	-0.25	21.35	<=33.01	Pass
	1 TX Slot		1880	25.90	-0.25	25.65	<=33.01	Pass	
	2 TX Slots		1880	24.89	-0.25	24.64	<=33.01	Pass	
	3 TX Slots		1880	22.60	-0.25	22.35	<=33.01	Pass	
	4 TX Slots		1880	21.77	-0.25	21.52	<=33.01	Pass	
	1 TX Slot		1909.8	25.49	-0.25	25.24	<=33.01	Pass	
	2 TX Slots		1909.8	24.83	-0.25	24.58	<=33.01	Pass	
	3 TX Slots		1909.8	22.56	-0.25	22.31	<=33.01	Pass	
	4 TX Slots		1909.8	21.86	-0.25	21.61	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 Test Result

2.1.1 PCS1900

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	1850.2	20	LV	34.018	0.0184	-2.5 to 2.5	Pass
			NV	30.941	0.0167	-2.5 to 2.5	Pass
			HV	27.013	0.0146	-2.5 to 2.5	Pass
		-30	NV	29.640	0.0160	-2.5 to 2.5	Pass
		-20	NV	27.694	0.0150	-2.5 to 2.5	Pass
		-10	NV	26.678	0.0144	-2.5 to 2.5	Pass
		0	NV	22.539	0.0122	-2.5 to 2.5	Pass
		10	NV	21.075	0.0114	-2.5 to 2.5	Pass
		30	NV	27.611	0.0149	-2.5 to 2.5	Pass

		40	NV	13.735	0.0074	-2.5 to 2.5	Pass
		50	NV	30.282	0.0164	-2.5 to 2.5	Pass
	1880	20	LV	14.618	0.0078	-2.5 to 2.5	Pass
			NV	24.962	0.0133	-2.5 to 2.5	Pass
			HV	18.685	0.0099	-2.5 to 2.5	Pass
		-30	NV	15.359	0.0082	-2.5 to 2.5	Pass
		-20	NV	17.340	0.0092	-2.5 to 2.5	Pass
		-10	NV	18.684	0.0099	-2.5 to 2.5	Pass
		0	NV	23.897	0.0127	-2.5 to 2.5	Pass
		10	NV	10.227	0.0054	-2.5 to 2.5	Pass
		30	NV	14.799	0.0079	-2.5 to 2.5	Pass
		40	NV	24.078	0.0128	-2.5 to 2.5	Pass
		50	NV	17.472	0.0093	-2.5 to 2.5	Pass
	1909.8	20	LV	18.242	0.0096	-2.5 to 2.5	Pass
			NV	13.569	0.0071	-2.5 to 2.5	Pass
			HV	13.506	0.0071	-2.5 to 2.5	Pass
		-30	NV	17.000	0.0089	-2.5 to 2.5	Pass
		-20	NV	14.853	0.0078	-2.5 to 2.5	Pass
		-10	NV	14.293	0.0075	-2.5 to 2.5	Pass
		0	NV	13.455	0.0070	-2.5 to 2.5	Pass
		10	NV	16.039	0.0084	-2.5 to 2.5	Pass
		30	NV	16.222	0.0085	-2.5 to 2.5	Pass
		40	NV	5.380	0.0028	-2.5 to 2.5	Pass
		50	NV	22.661	0.0119	-2.5 to 2.5	Pass
GPRS	1850.2	20	LV	26.212	0.0142	-2.5 to 2.5	Pass
			NV	24.349	0.0132	-2.5 to 2.5	Pass
			HV	26.594	0.0144	-2.5 to 2.5	Pass
		-30	NV	26.357	0.0142	-2.5 to 2.5	Pass
		-20	NV	26.532	0.0143	-2.5 to 2.5	Pass
		-10	NV	21.534	0.0116	-2.5 to 2.5	Pass
		0	NV	27.929	0.0151	-2.5 to 2.5	Pass
		10	NV	22.846	0.0123	-2.5 to 2.5	Pass
		30	NV	26.028	0.0141	-2.5 to 2.5	Pass
		40	NV	26.467	0.0143	-2.5 to 2.5	Pass
		50	NV	24.867	0.0134	-2.5 to 2.5	Pass
	1880	20	LV	29.308	0.0156	-2.5 to 2.5	Pass
			NV	30.580	0.0163	-2.5 to 2.5	Pass
			HV	30.640	0.0163	-2.5 to 2.5	Pass
		-30	NV	31.218	0.0166	-2.5 to 2.5	Pass
		-20	NV	32.926	0.0175	-2.5 to 2.5	Pass
		-10	NV	30.138	0.0160	-2.5 to 2.5	Pass
		0	NV	29.557	0.0157	-2.5 to 2.5	Pass
		10	NV	32.063	0.0171	-2.5 to 2.5	Pass
		30	NV	11.586	0.0062	-2.5 to 2.5	Pass
		40	NV	32.922	0.0175	-2.5 to 2.5	Pass
		50	NV	29.584	0.0157	-2.5 to 2.5	Pass
	1909.8	20	LV	26.086	0.0137	-2.5 to 2.5	Pass
			NV	28.794	0.0151	-2.5 to 2.5	Pass
			HV	22.632	0.0119	-2.5 to 2.5	Pass
		-30	NV	29.531	0.0155	-2.5 to 2.5	Pass
		-20	NV	25.700	0.0135	-2.5 to 2.5	Pass
		-10	NV	25.769	0.0135	-2.5 to 2.5	Pass
		0	NV	25.327	0.0133	-2.5 to 2.5	Pass
		10	NV	26.700	0.0140	-2.5 to 2.5	Pass
		30	NV	27.696	0.0145	-2.5 to 2.5	Pass
		40	NV	29.872	0.0156	-2.5 to 2.5	Pass
		50	NV	33.711	0.0177	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	22.968	0.0124	-2.5 to 2.5	Pass
			NV	24.391	0.0132	-2.5 to 2.5	Pass

			HV	21.816	0.0118	-2.5 to 2.5	Pass
		-30	NV	37.543	0.0203	-2.5 to 2.5	Pass
		-20	NV	24.469	0.0132	-2.5 to 2.5	Pass
		-10	NV	24.052	0.0130	-2.5 to 2.5	Pass
		0	NV	29.682	0.0160	-2.5 to 2.5	Pass
		10	NV	34.406	0.0186	-2.5 to 2.5	Pass
		30	NV	28.085	0.0152	-2.5 to 2.5	Pass
		40	NV	28.073	0.0152	-2.5 to 2.5	Pass
		50	NV	25.144	0.0136	-2.5 to 2.5	Pass
	1880	20	LV	27.728	0.0147	-2.5 to 2.5	Pass
			NV	27.696	0.0147	-2.5 to 2.5	Pass
			HV	31.085	0.0165	-2.5 to 2.5	Pass
		-30	NV	27.413	0.0146	-2.5 to 2.5	Pass
		-20	NV	28.338	0.0151	-2.5 to 2.5	Pass
		-10	NV	31.469	0.0167	-2.5 to 2.5	Pass
		0	NV	24.002	0.0128	-2.5 to 2.5	Pass
		10	NV	26.971	0.0143	-2.5 to 2.5	Pass
		30	NV	27.700	0.0147	-2.5 to 2.5	Pass
		40	NV	31.832	0.0169	-2.5 to 2.5	Pass
		50	NV	29.374	0.0156	-2.5 to 2.5	Pass
	1909.8	20	LV	28.071	0.0147	-2.5 to 2.5	Pass
			NV	27.226	0.0143	-2.5 to 2.5	Pass
			HV	26.207	0.0137	-2.5 to 2.5	Pass
		-30	NV	28.809	0.0151	-2.5 to 2.5	Pass
		-20	NV	27.091	0.0142	-2.5 to 2.5	Pass
		-10	NV	29.452	0.0154	-2.5 to 2.5	Pass
		0	NV	0.986	0.0005	-2.5 to 2.5	Pass
		10	NV	31.677	0.0166	-2.5 to 2.5	Pass
		30	NV	28.964	0.0152	-2.5 to 2.5	Pass
		40	NV	27.636	0.0145	-2.5 to 2.5	Pass
		50	NV	27.905	0.0146	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.243	/	Pass
			1880	0.241	/	Pass
			1909.8	0.247	/	Pass
	GPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.244	/	Pass
			1909.8	0.244	/	Pass
	EGPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.252	/	Pass
			1909.8	0.239	/	Pass

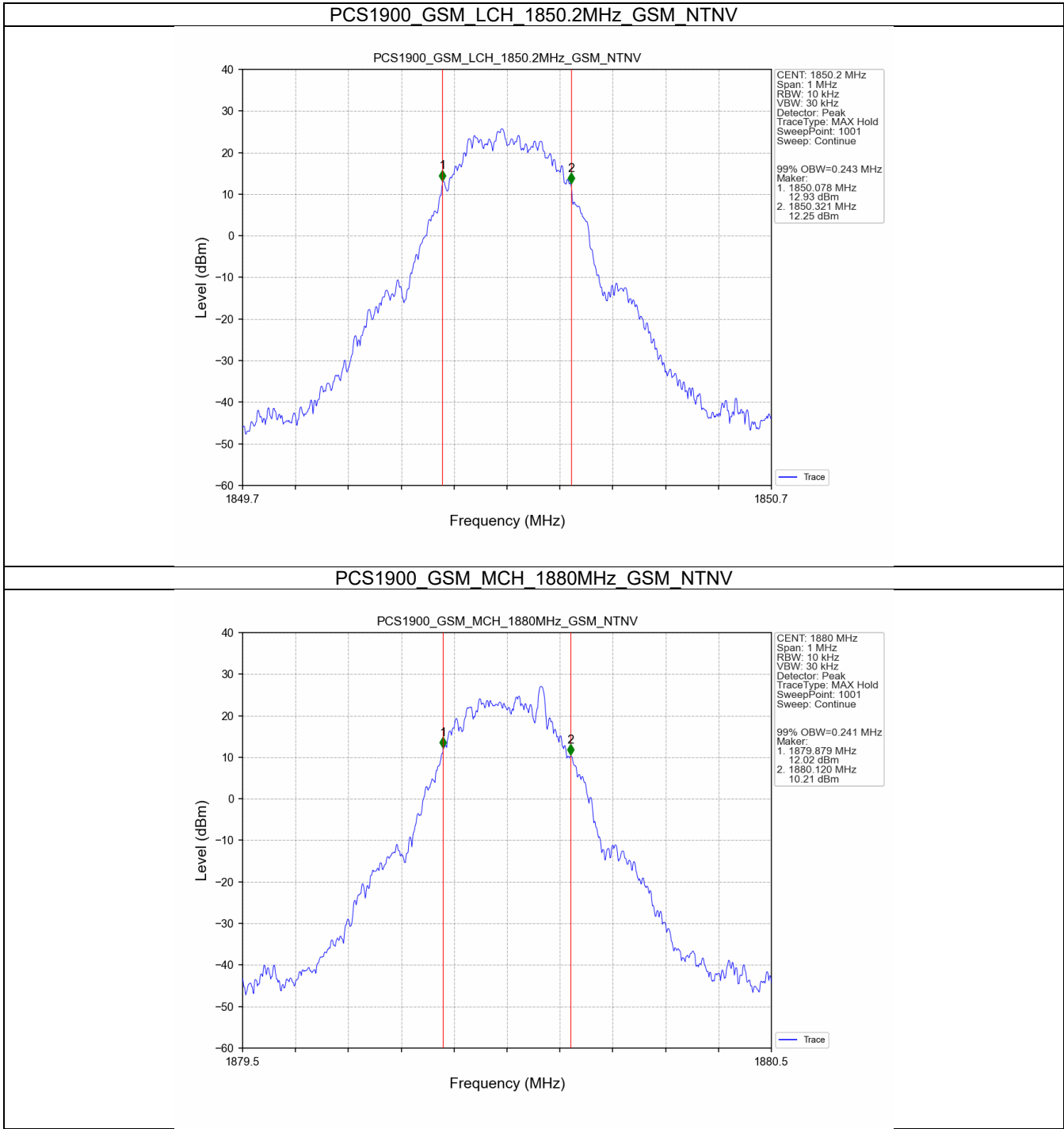
3.1.2 PCS1900_XDB

Band: PCS1900				
ENV	Mode	Frequency	26dB Bandwidth (MHz)	Verdict

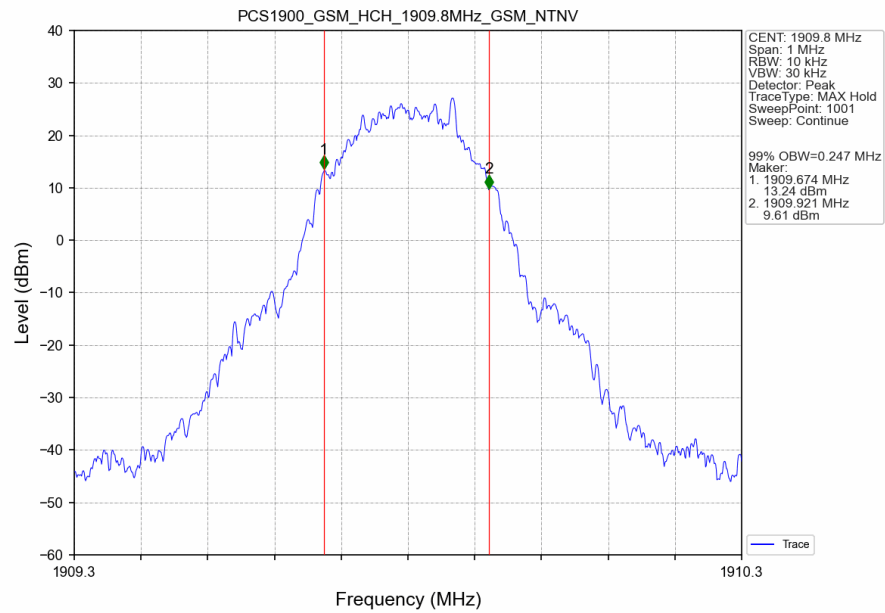
	Network	Subset	(MHz)	Result	Limit	
NTNV	GSM	GSM	1850.2	0.312	/	Pass
			1880	0.308	/	Pass
			1909.8	0.310	/	Pass
	GPRS	1 TX Slot	1850.2	0.319	/	Pass
			1880	0.316	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.308	/	Pass
			1880	0.316	/	Pass
			1909.8	0.291	/	Pass

3.2 Test Graph

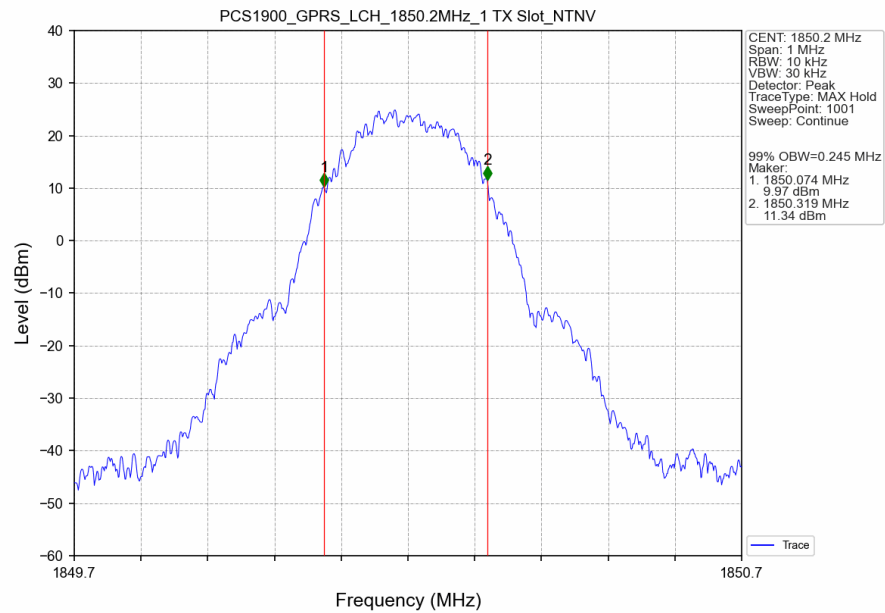
3.2.1 PCS1900_OBW



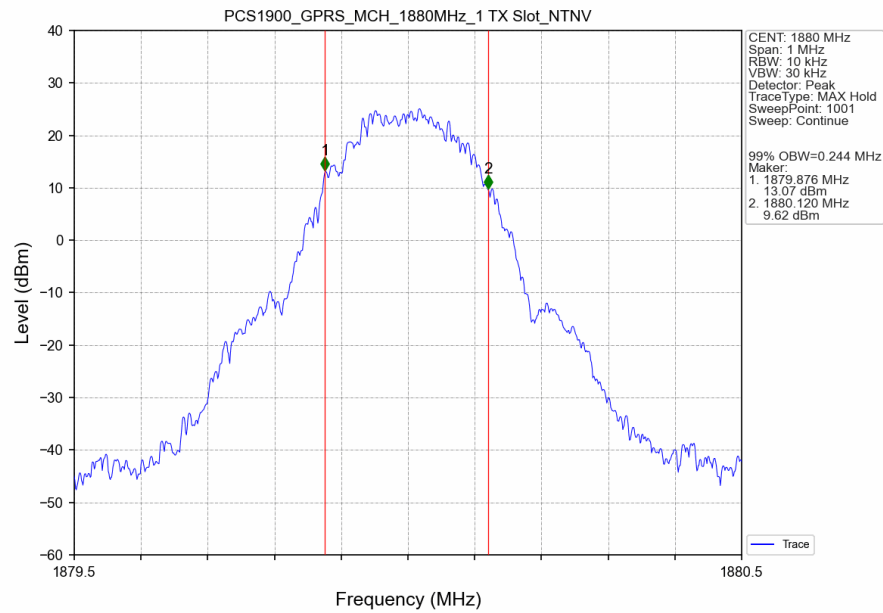
PCS1900 GSM HCH 1909.8MHz GSM NTN



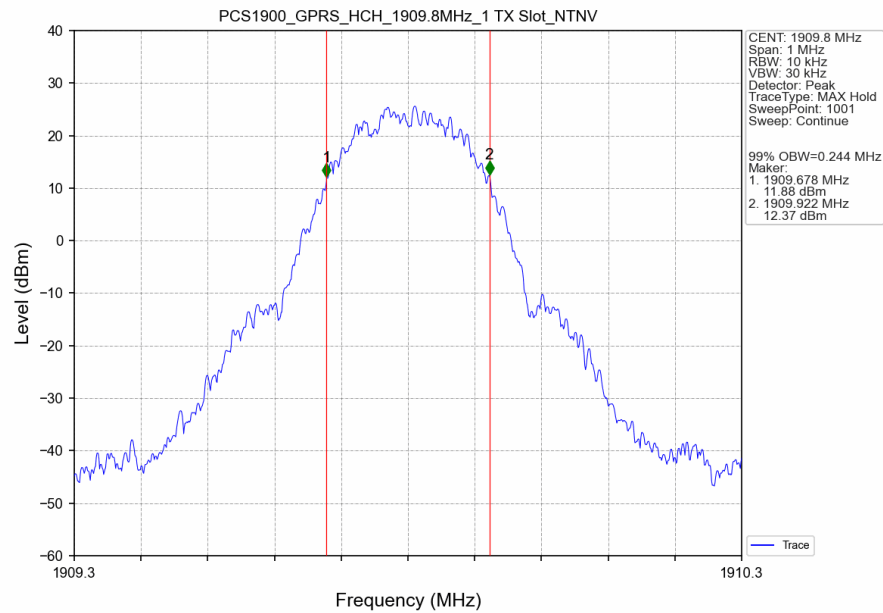
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



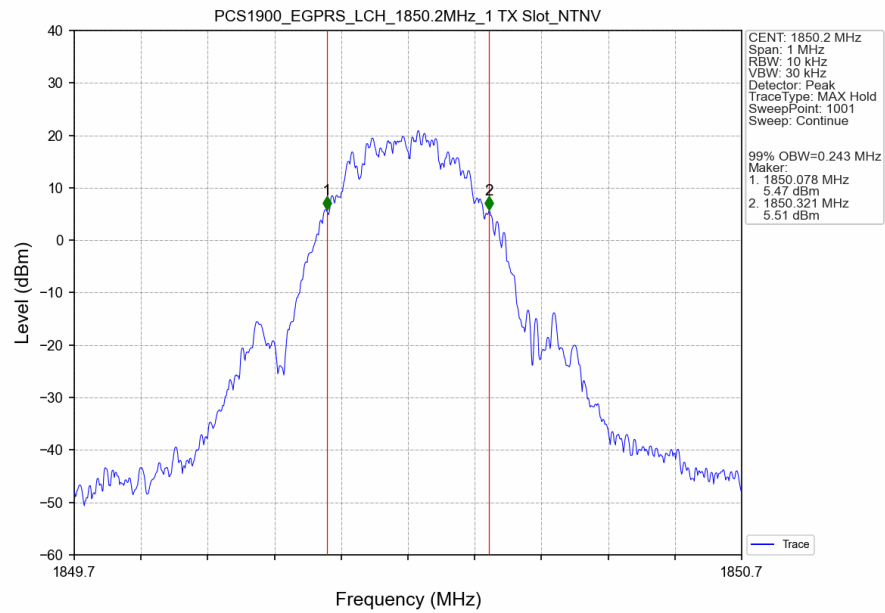
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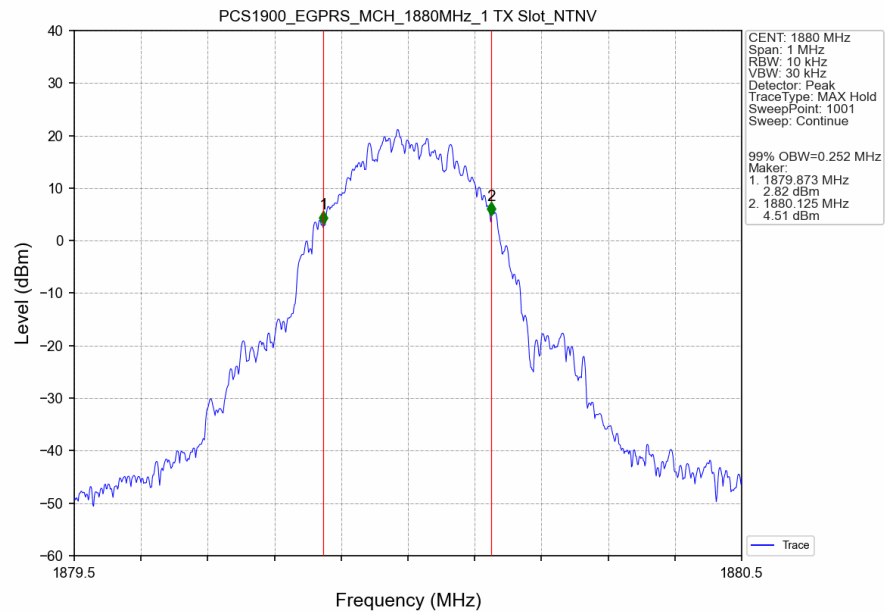
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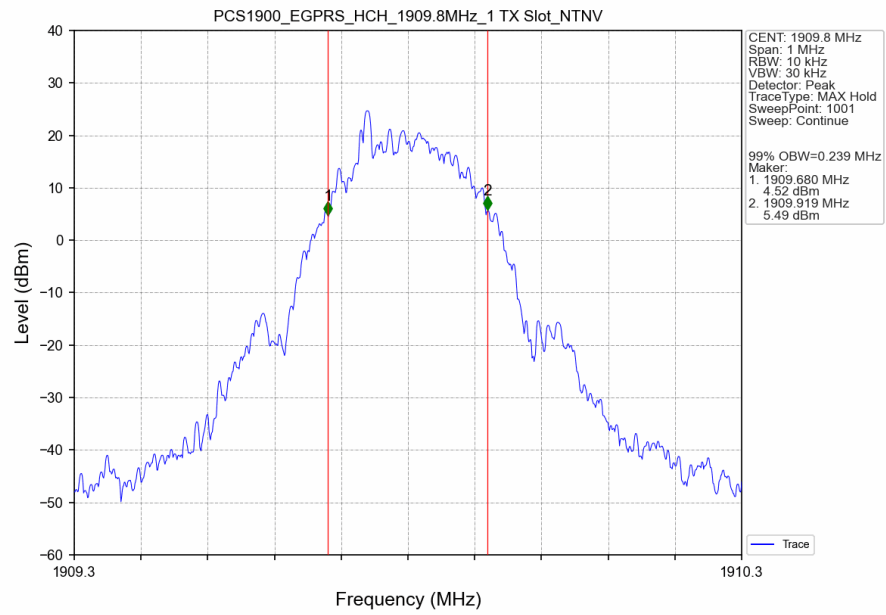
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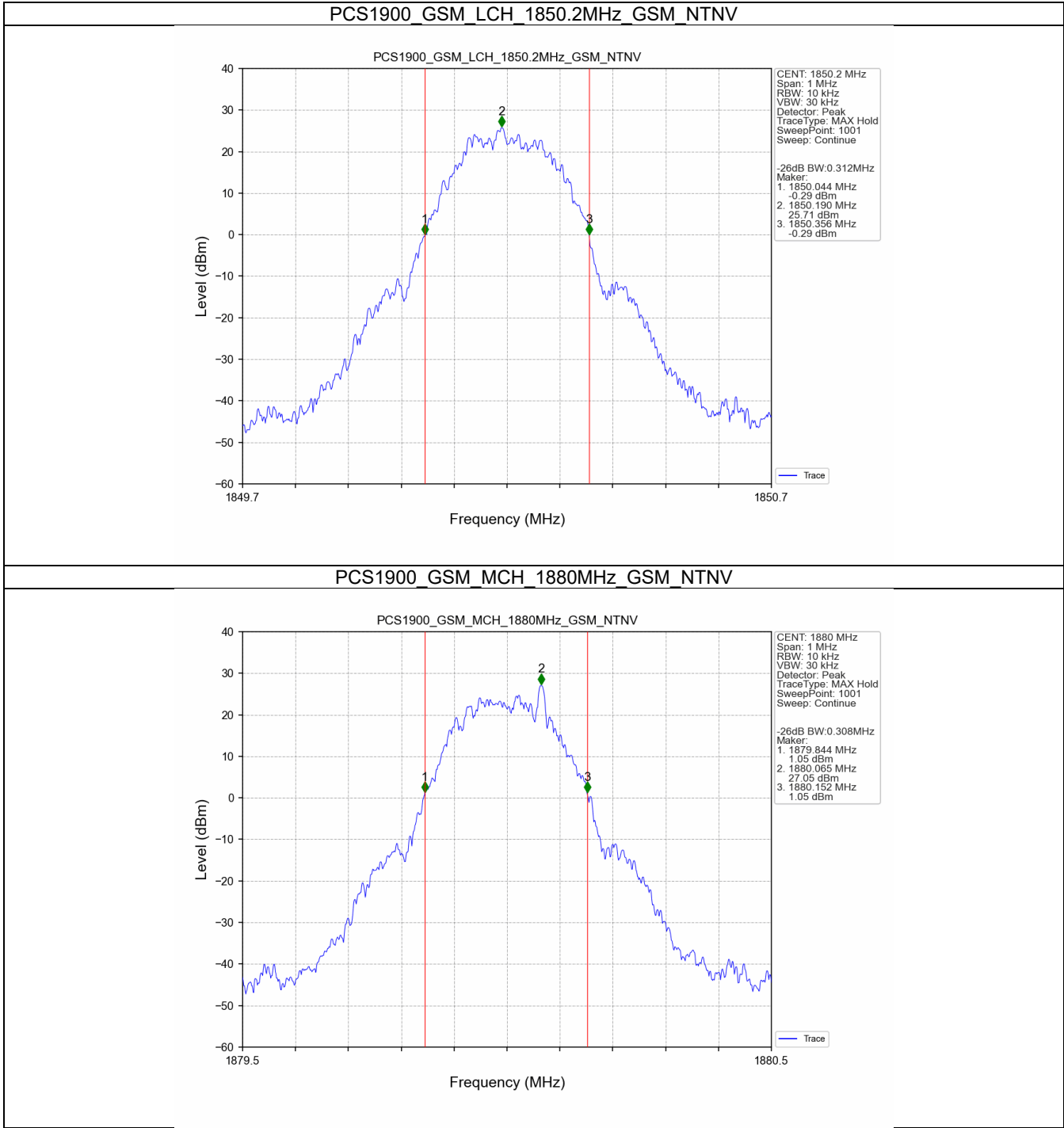
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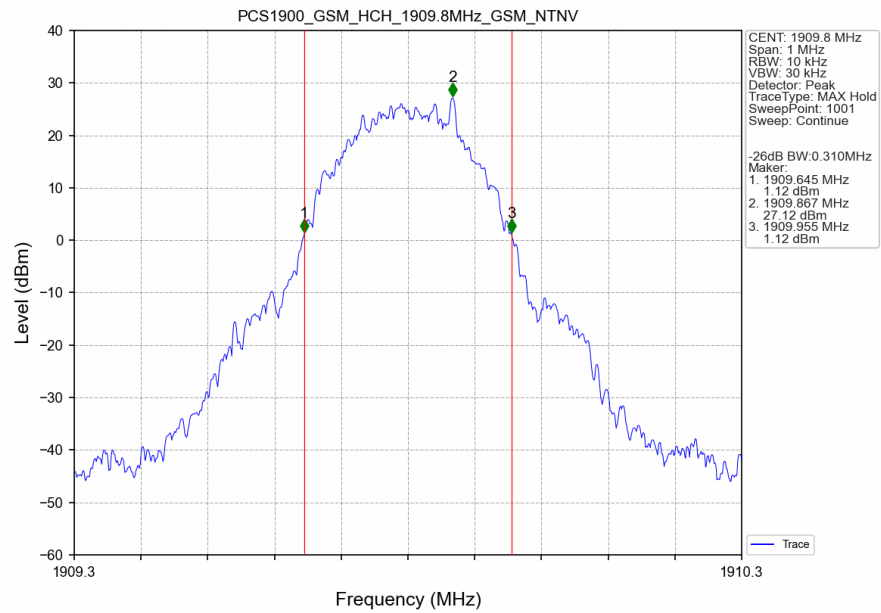
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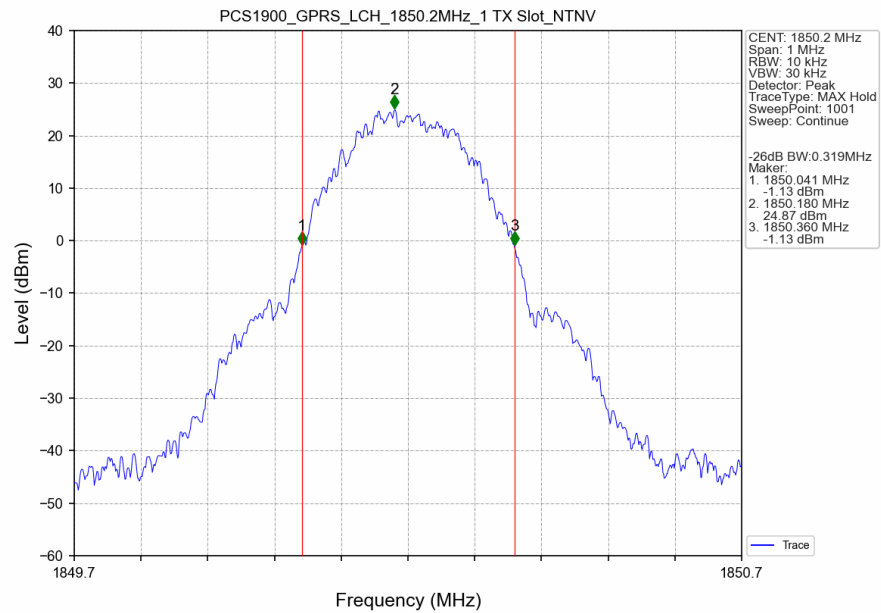
3.2.2 PCS1900_XDB



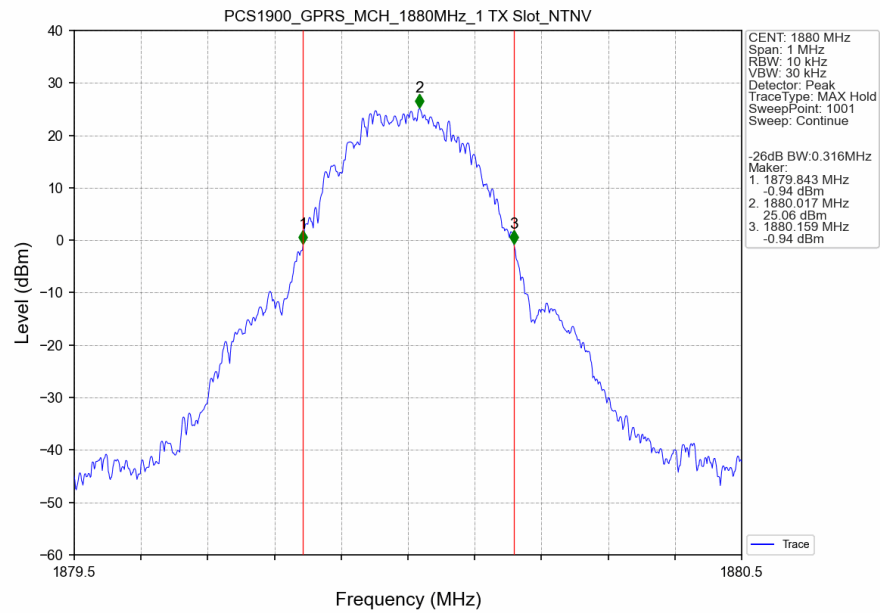
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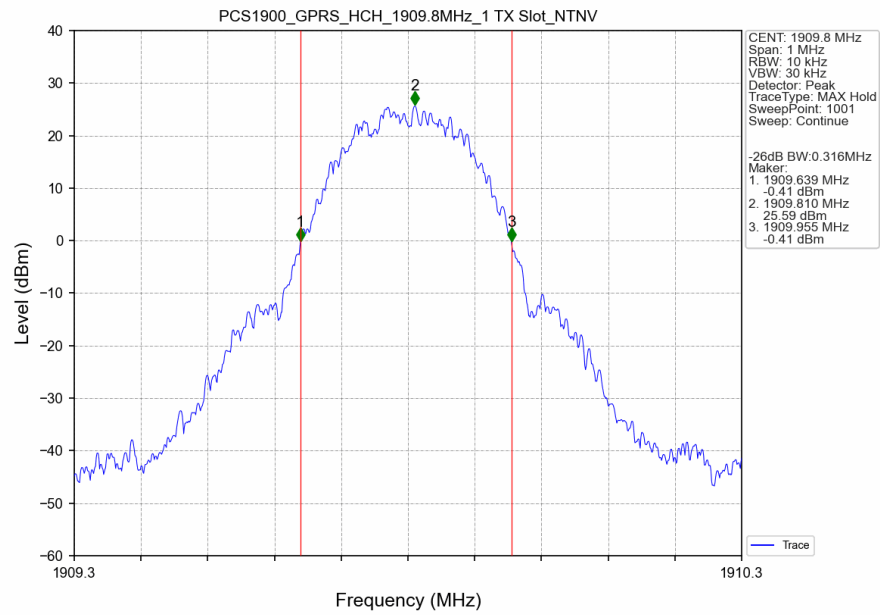
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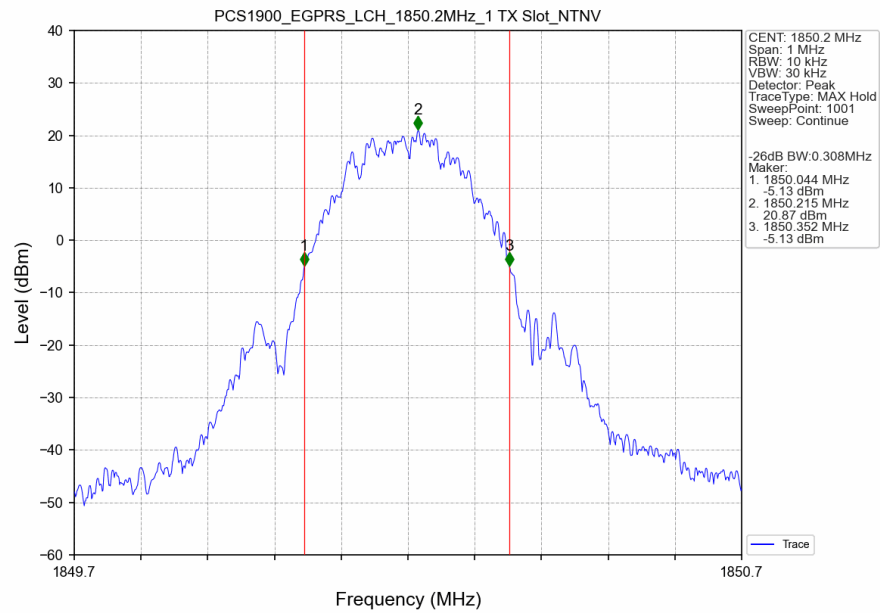
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



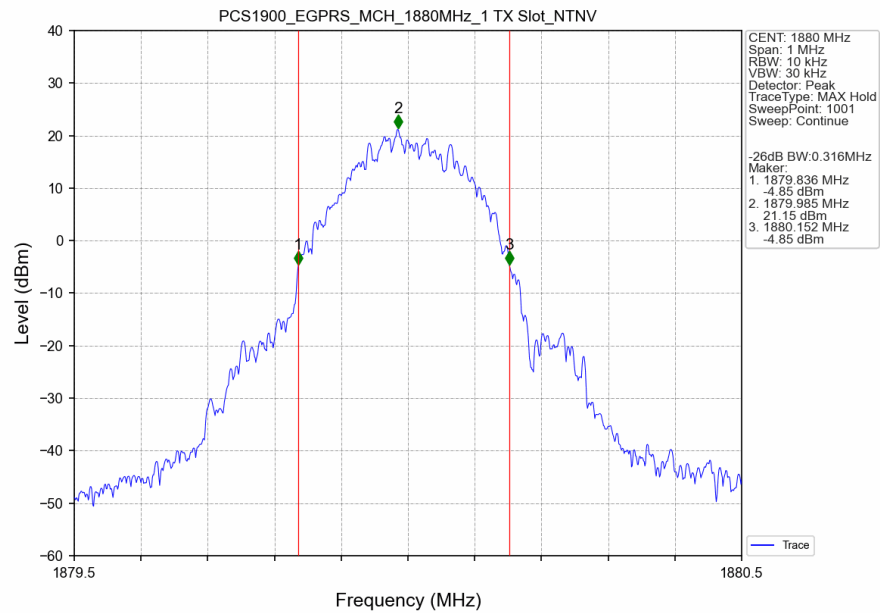
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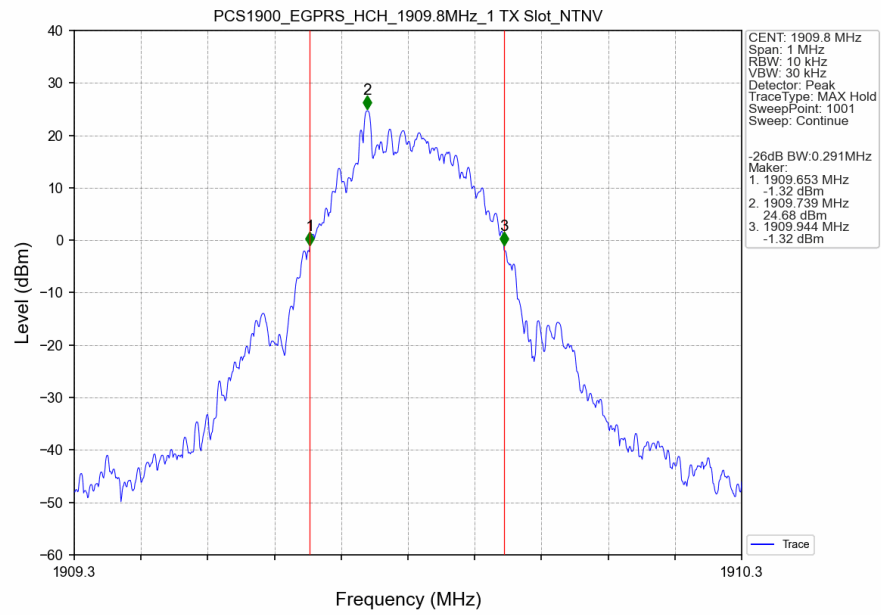
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTV



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

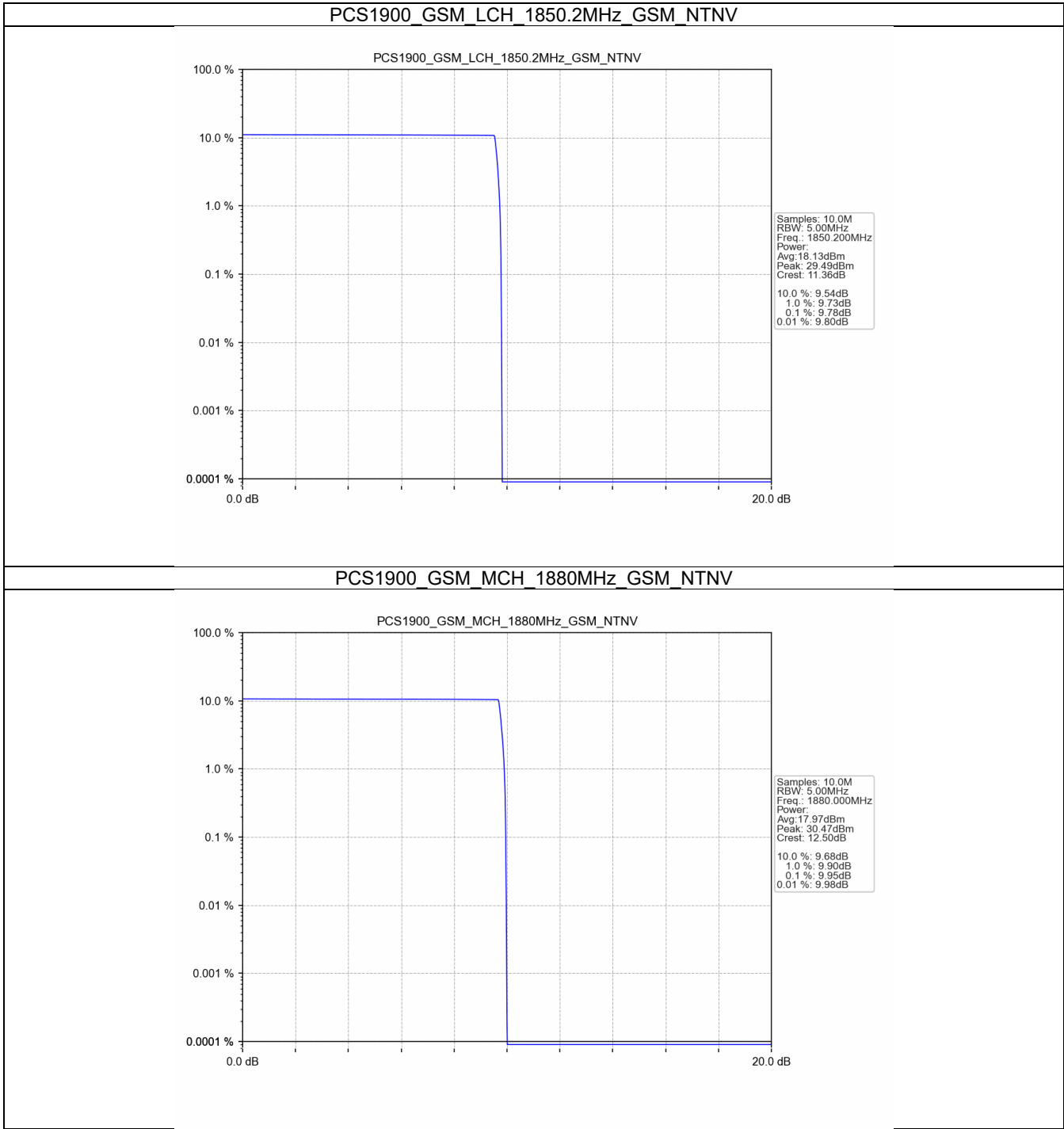
4.1 Test Result

4.1.1 PCS1900

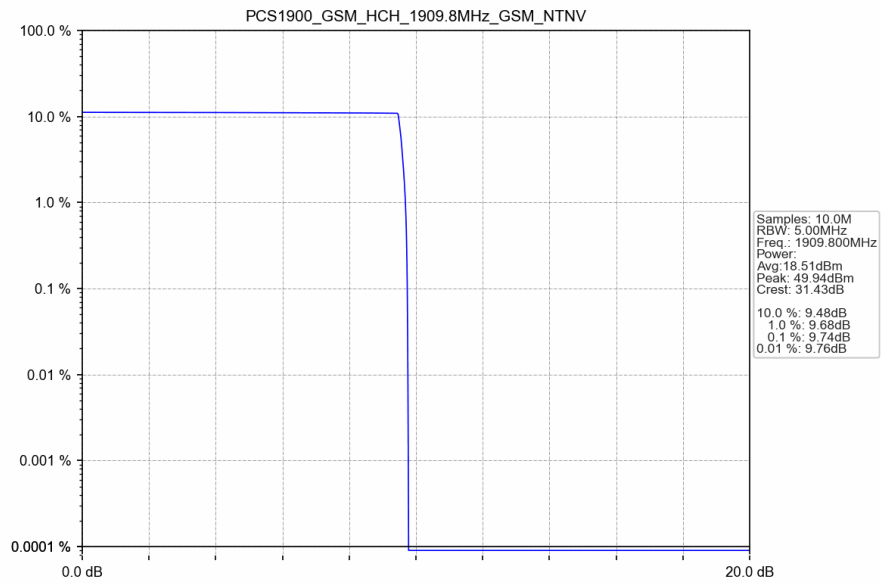
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.78	<=13	Pass
			1880	9.95	<=13	Pass
			1909.8	9.74	<=13	Pass
	GPRS	4 TX Slots	1850.2	4.03	<=13	Pass
			1880	4.11	<=13	Pass
			1909.8	3.92	<=13	Pass
	EGPRS	4 TX Slots	1850.2	9.65	<=13	Pass
			1880	9.18	<=13	Pass
			1909.8	9.69	<=13	Pass

4.2 Test Graph

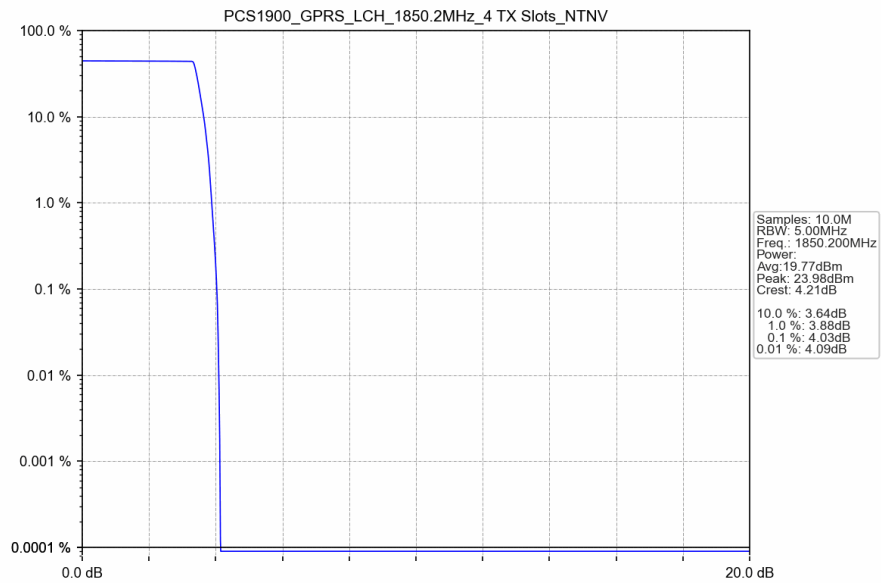
4.2.1 PCS1900



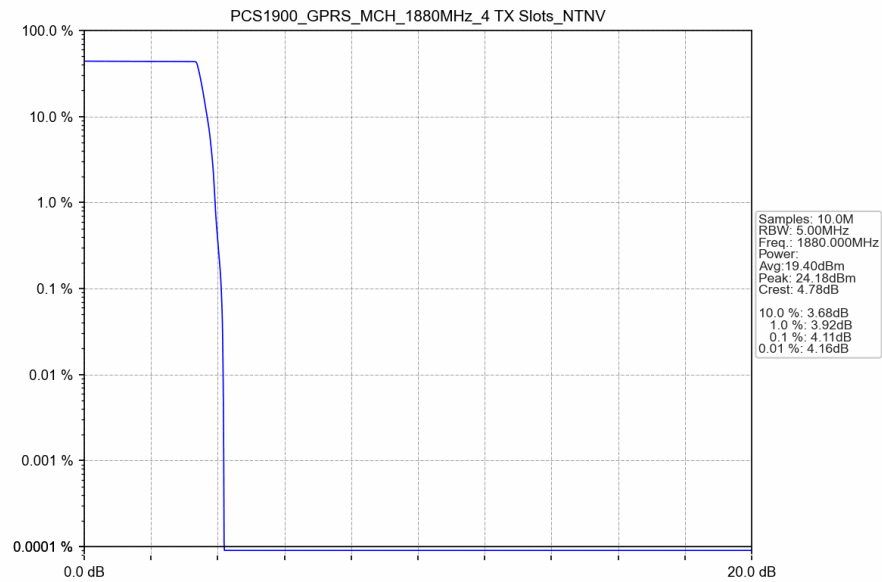
PCS1900 GSM HCH 1909.8MHz GSM NTN



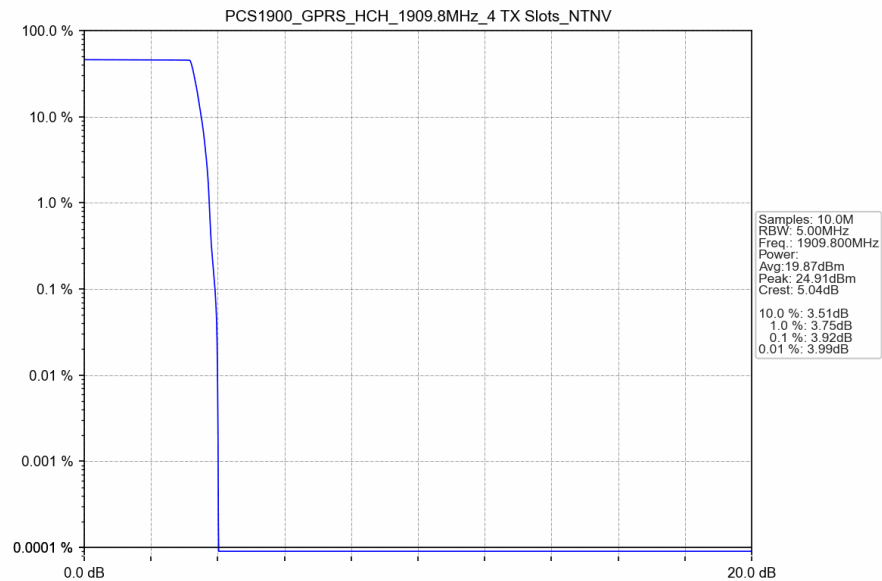
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



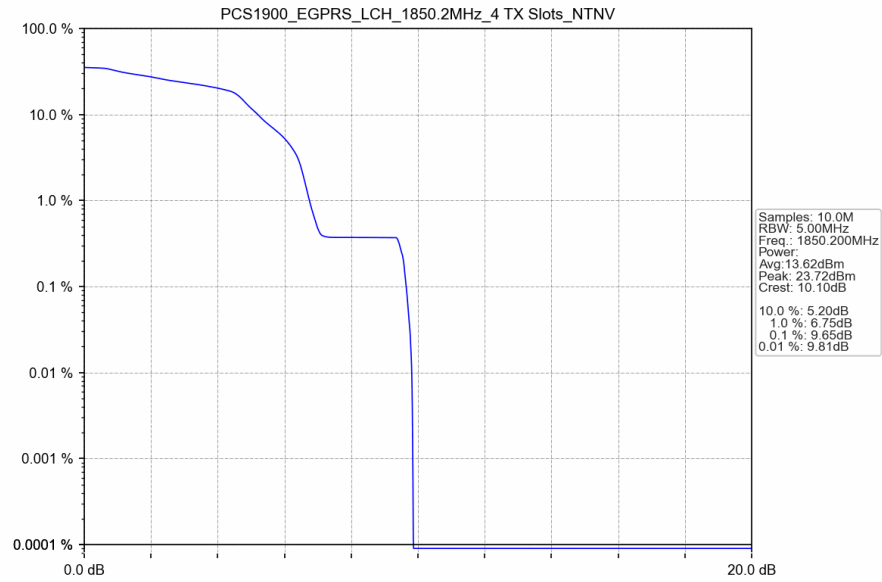
PCS1900 GPRS MCH 1880MHz 4 TX Slots NTNV



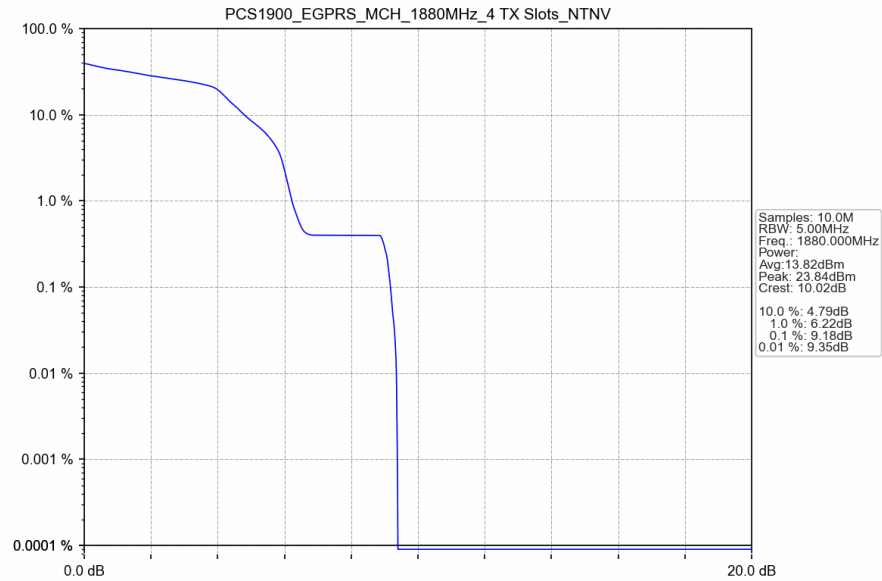
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV



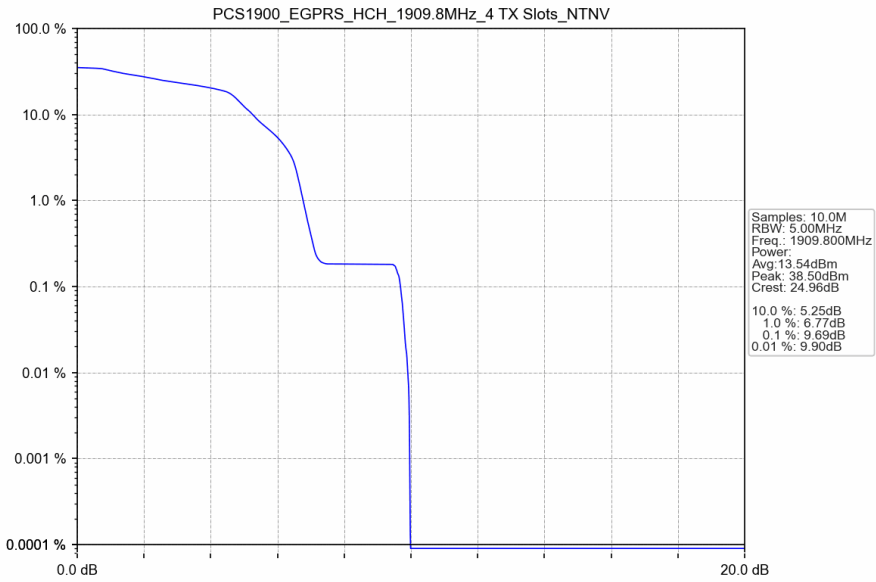
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTN



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTNV



5. Spurious Emission

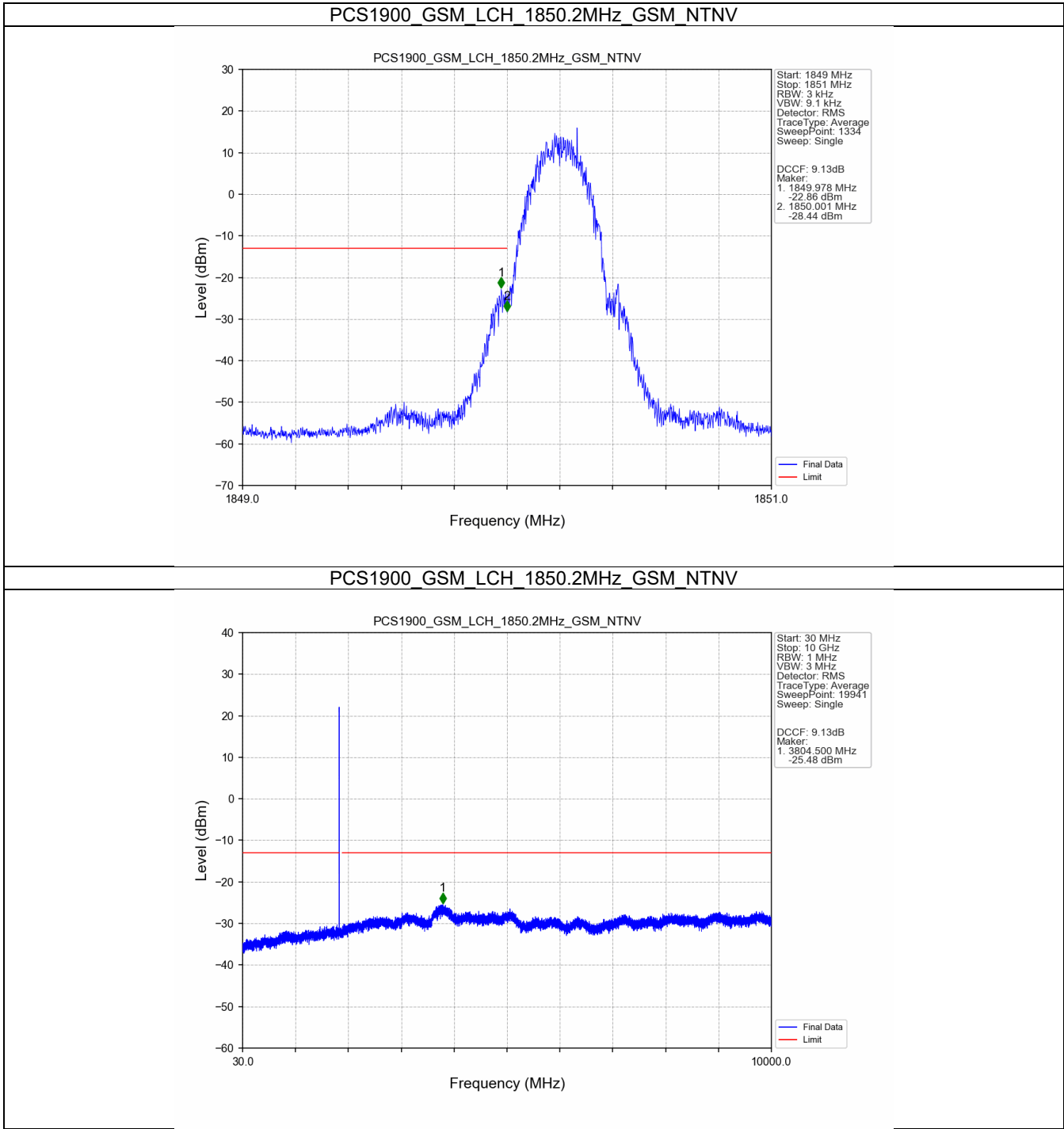
5.1 Test Result

5.1.1 PCS1900

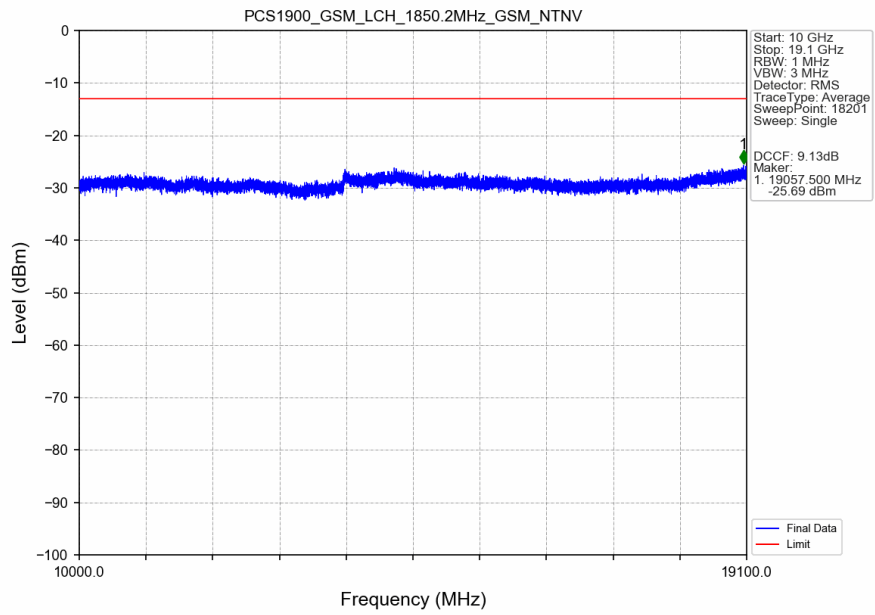
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass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

5.2 Test Graph

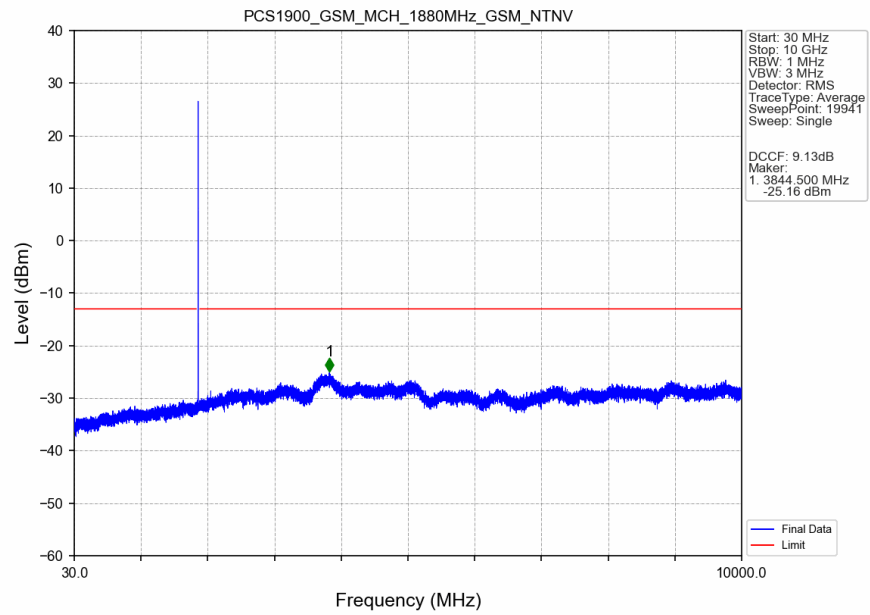
5.2.1 PCS1900



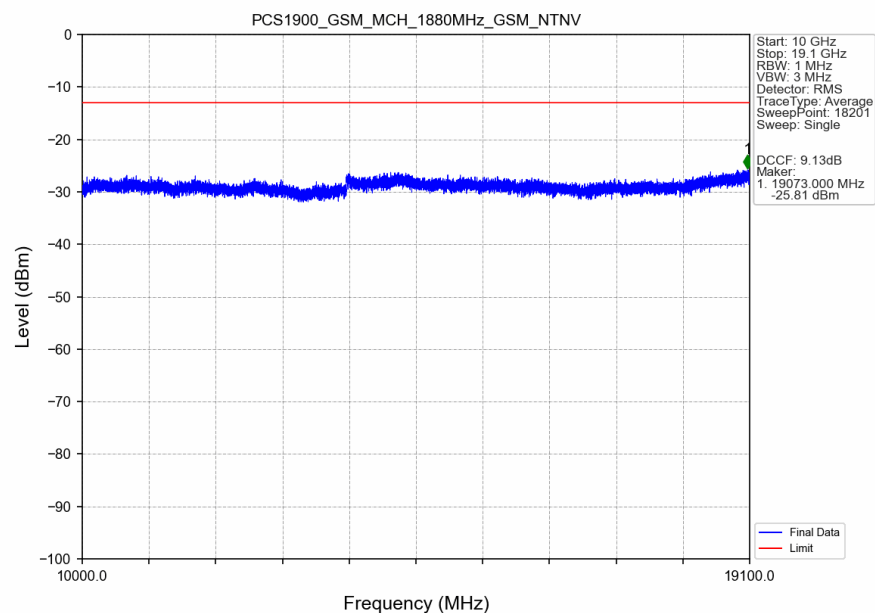
PCS1900 GSM LCH 1850.2MHz GSM NTNV



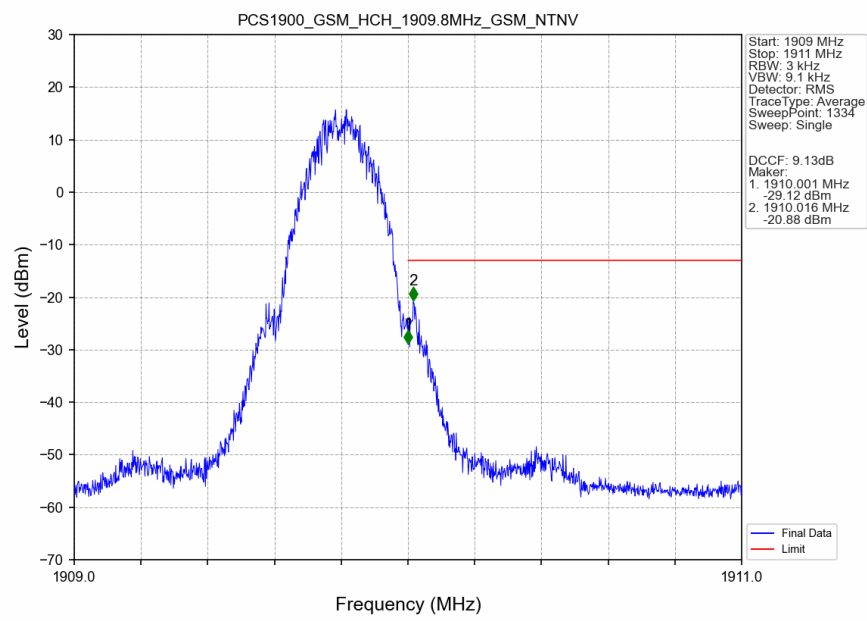
PCS1900 GSM MCH 1880MHz GSM NTNV



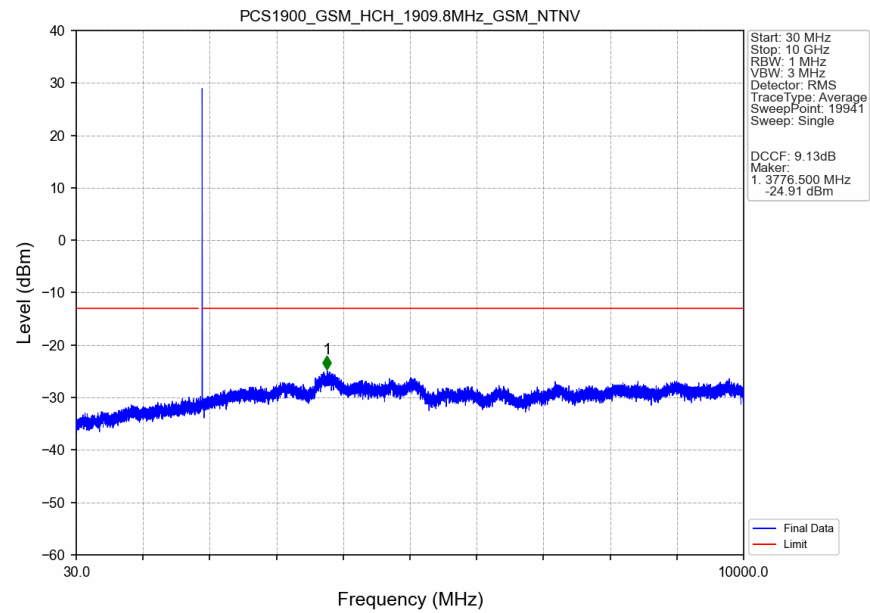
PCS1900 GSM MCH 1880MHz GSM NTNV



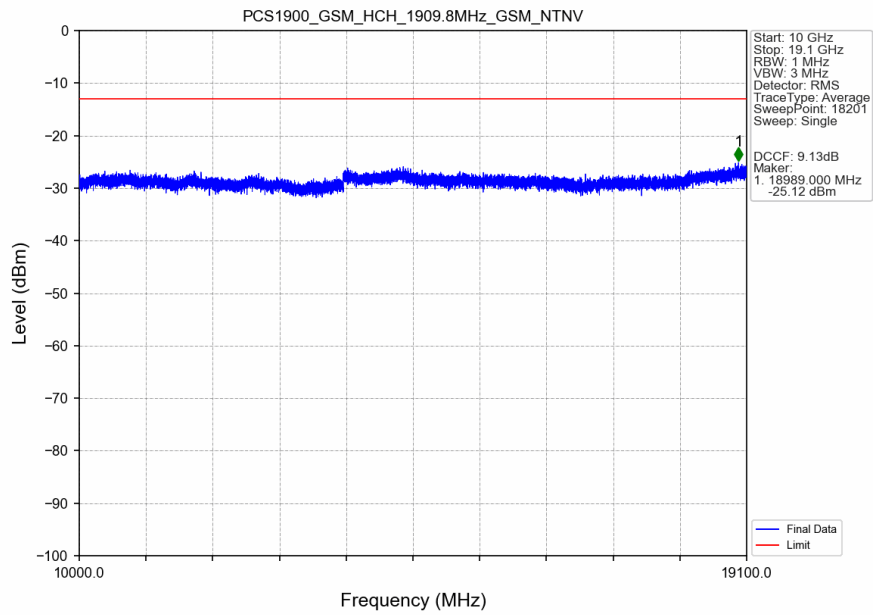
PCS1900 GSM HCH 1909.8MHz GSM NTNV



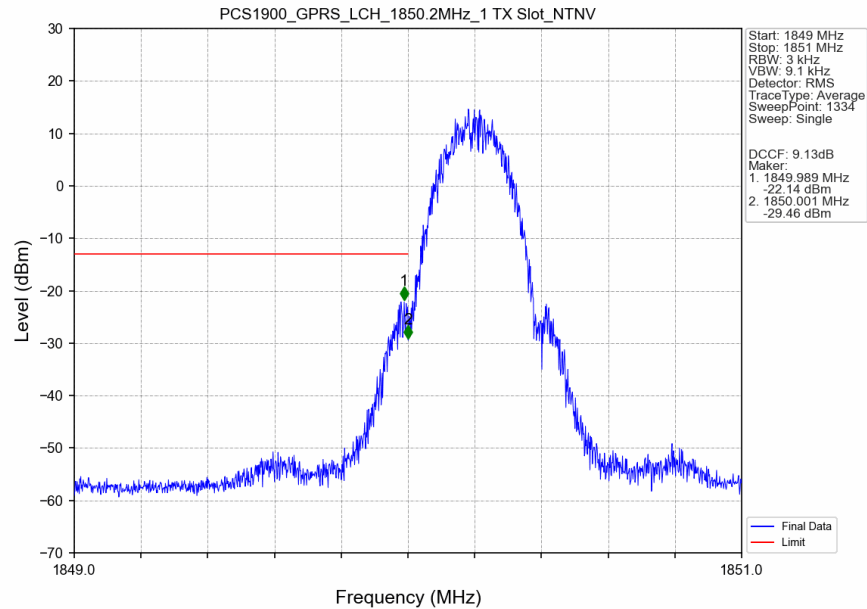
PCS1900 GSM HCH 1909.8MHz GSM NTN



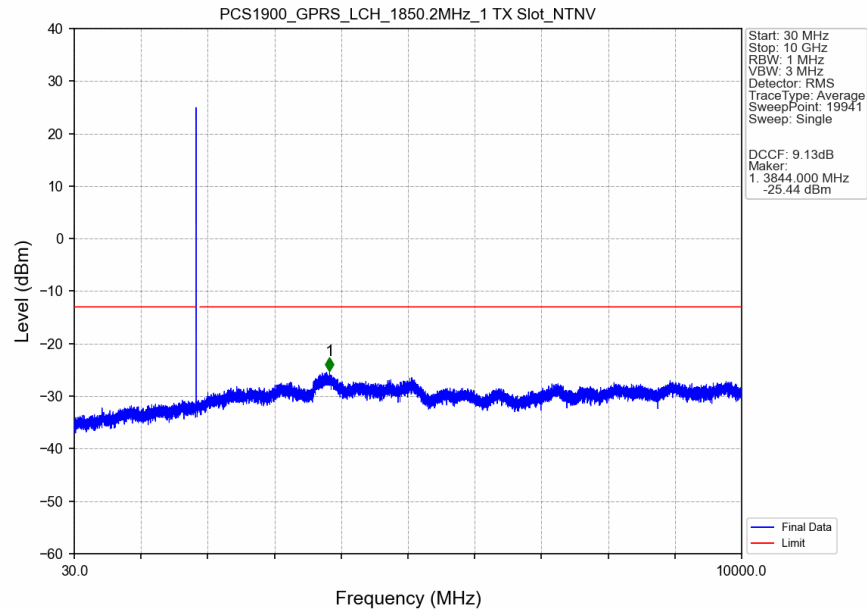
PCS1900 GSM HCH 1909.8MHz GSM NTN



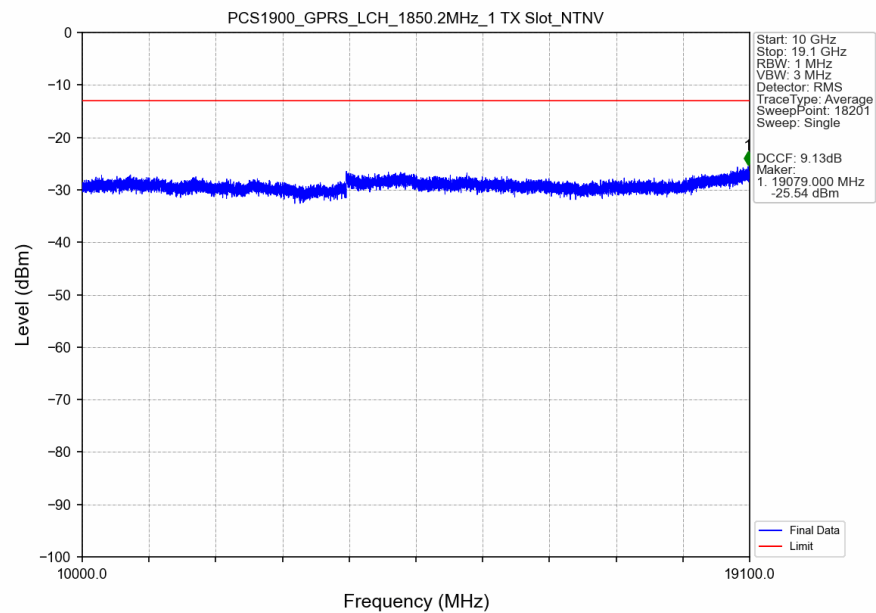
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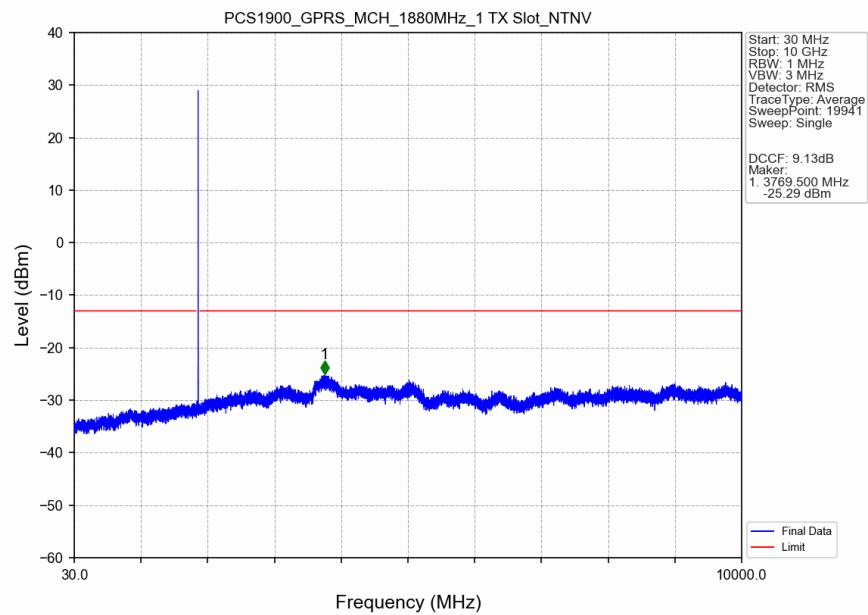
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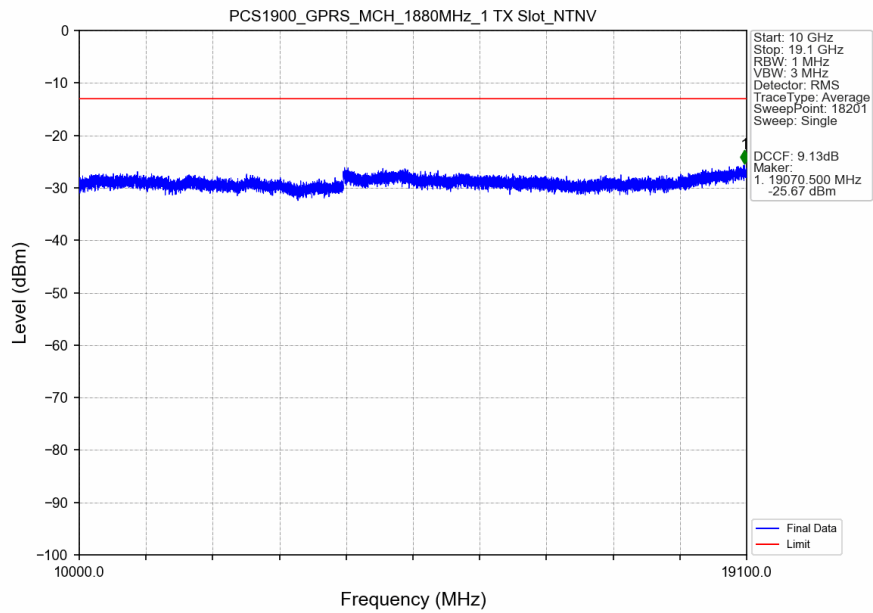
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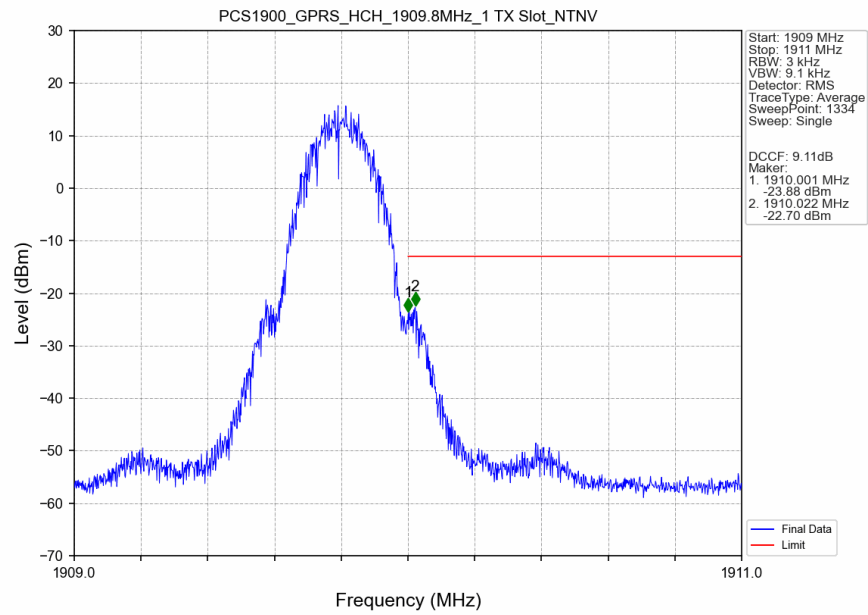
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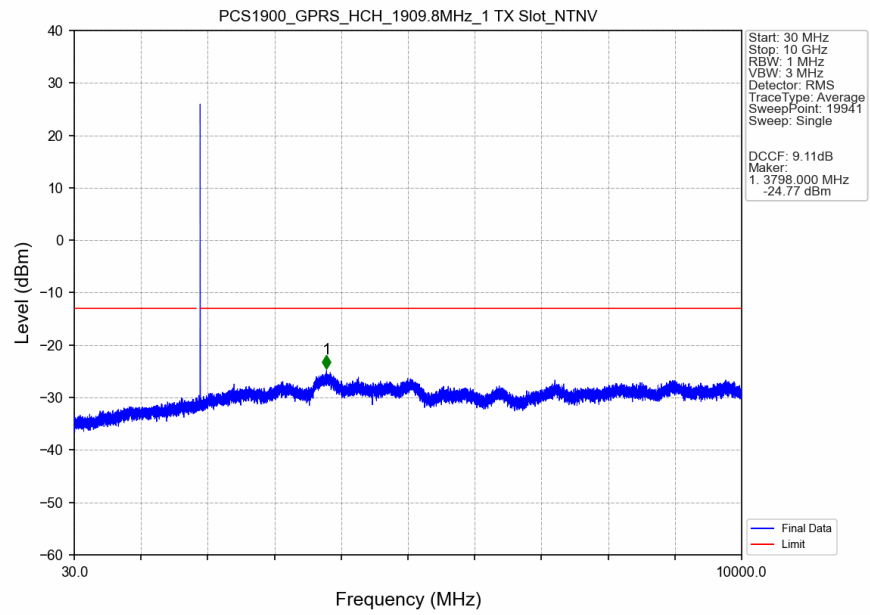
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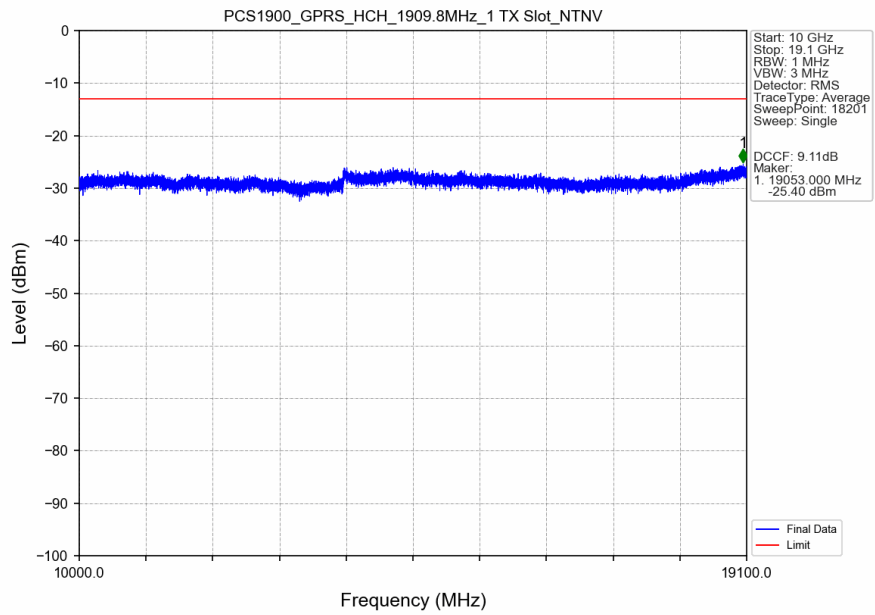
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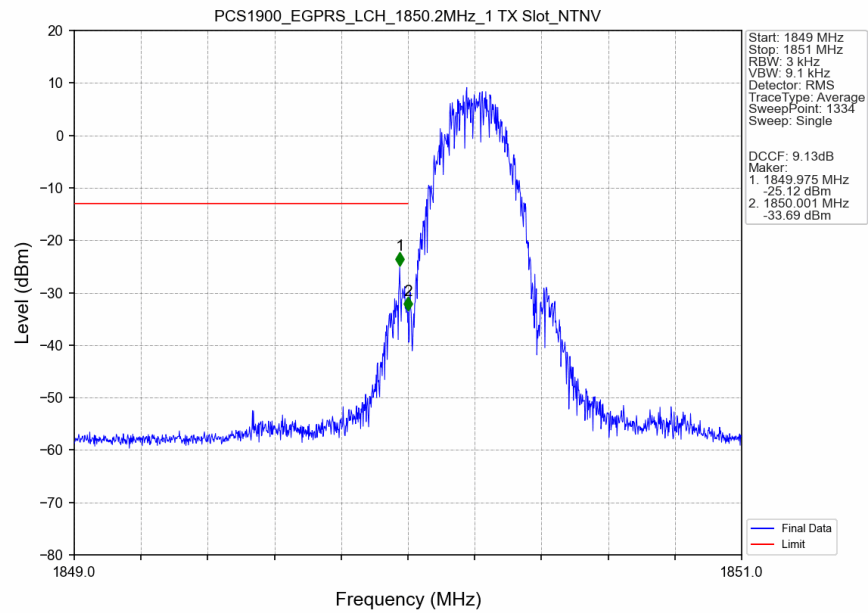
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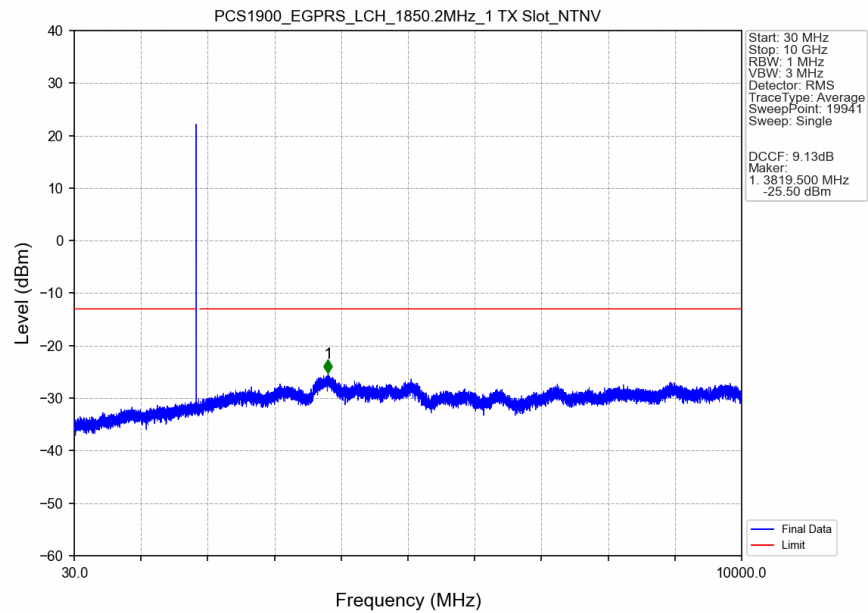
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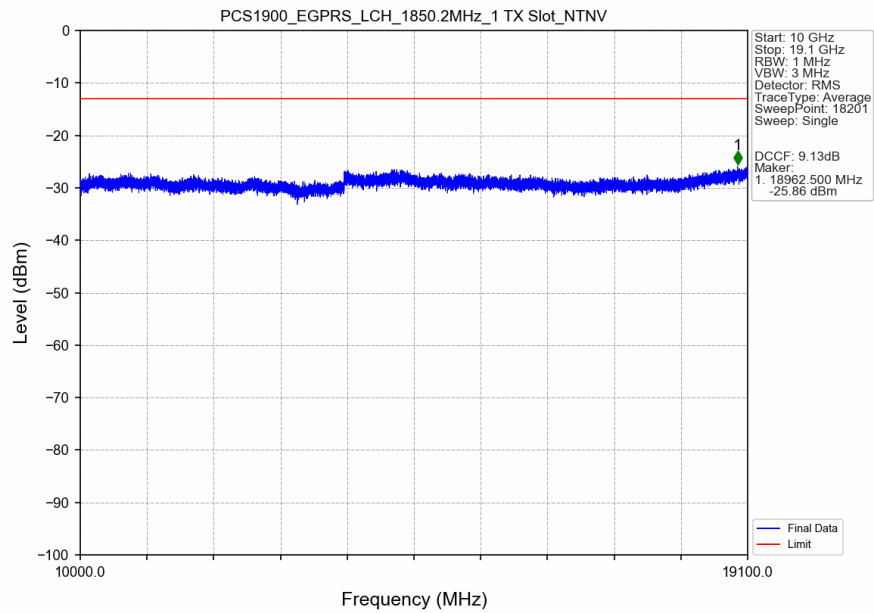
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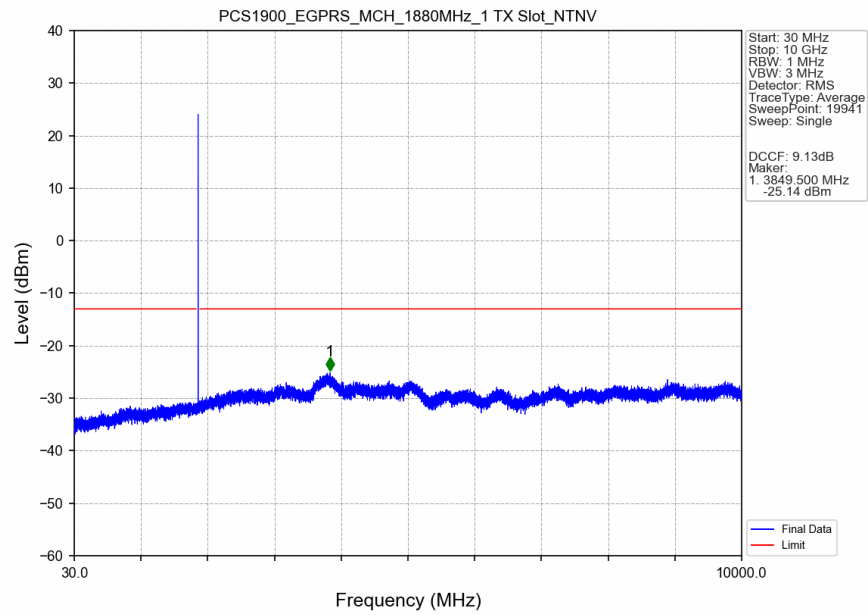
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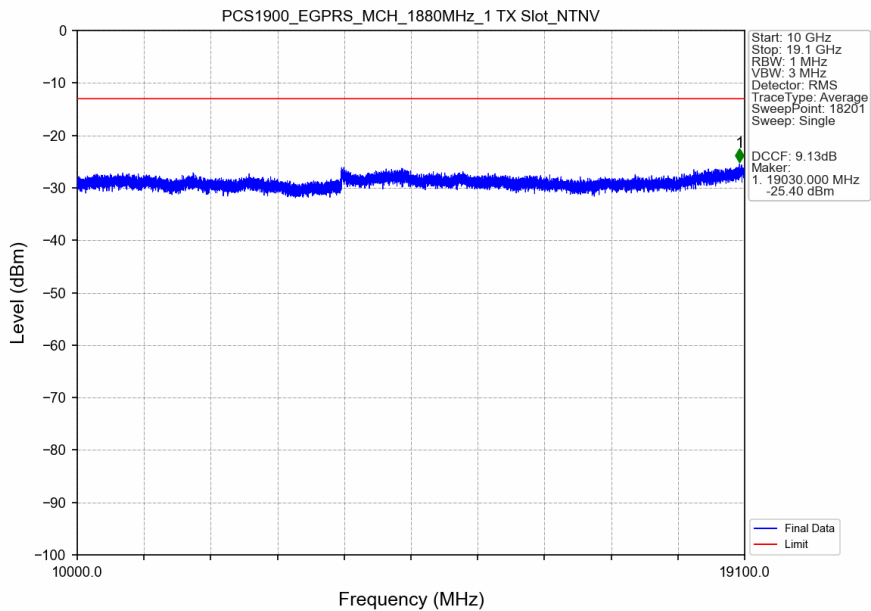
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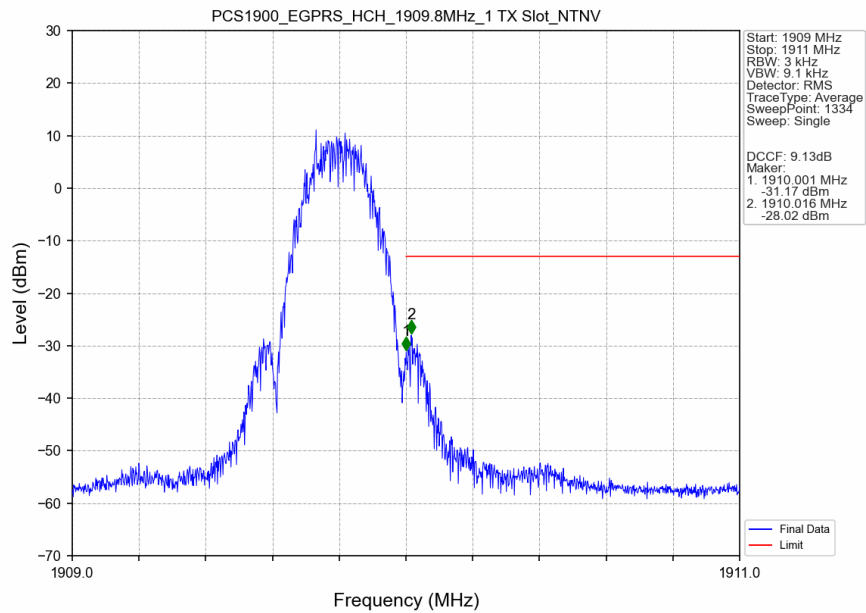
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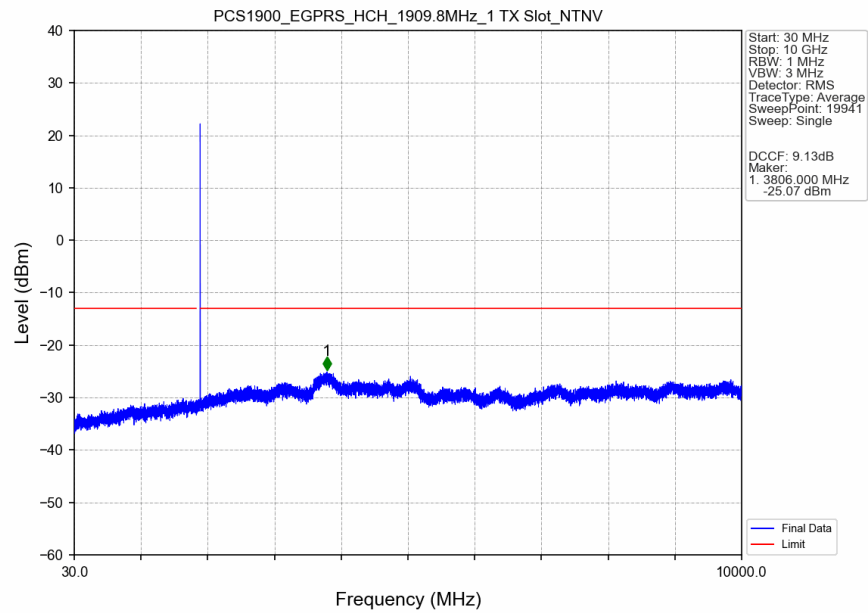
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PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV

