

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	30.08	-0.35	29.73	<=33.01	Pass				
			1880	30.05	-0.35	29.70	<=33.01	Pass				
			1909.8	30.20	-0.35	29.85	<=33.01	Pass				
	GPRS	1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots	1850.2 1850.2 1850.2 1850.2 1880 1880 1880 1880 1909.8 1909.8 1909.8 1909.8	1850.2	30.07	-0.35	29.72	<=33.01	Pass			
				1850.2	27.08	-0.35	26.73	<=33.01	Pass			
				1850.2	25.08	-0.35	24.73	<=33.01	Pass			
				1850.2	23.96	-0.35	23.61	<=33.01	Pass			
				1880	30.01	-0.35	29.66	<=33.01	Pass			
				1880	27.11	-0.35	26.76	<=33.01	Pass			
				1880	25.13	-0.35	24.78	<=33.01	Pass			
				1880	24.09	-0.35	23.74	<=33.01	Pass			
				1909.8	30.14	-0.35	29.79	<=33.01	Pass			
				1909.8	27.33	-0.35	26.98	<=33.01	Pass			
				1909.8	25.42	-0.35	25.07	<=33.01	Pass			
				1909.8	24.39	-0.35	24.04	<=33.01	Pass			
				EGPRS	1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots	1850.2 1850.2 1850.2 1850.2 1880 1880 1880 1880 1909.8 1909.8 1909.8 1909.8	1850.2	25.63	-0.35	25.28	<=33.01	Pass
							1850.2	22.81	-0.35	22.46	<=33.01	Pass
							1850.2	20.54	-0.35	20.19	<=33.01	Pass
							1850.2	19.10	-0.35	18.75	<=33.01	Pass
	1880	25.70	-0.35				25.35	<=33.01	Pass			
	1880	22.63	-0.35				22.28	<=33.01	Pass			
	1880	20.26	-0.35				19.91	<=33.01	Pass			
	1880	19.07	-0.35				18.72	<=33.01	Pass			
	1909.8	25.93	-0.35				25.58	<=33.01	Pass			
	1909.8	23.03	-0.35				22.68	<=33.01	Pass			
	1909.8	20.84	-0.35				20.49	<=33.01	Pass			
	1909.8	19.22	-0.35				18.87	<=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	-6.554	-0.0035	-2.5 to 2.5	Pass
			NV	-10.525	-0.0057	-2.5 to 2.5	Pass
			HV	-8.394	-0.0045	-2.5 to 2.5	Pass
		-30	NV	-7.910	-0.0043	-2.5 to 2.5	Pass
		-20	NV	-9.008	-0.0049	-2.5 to 2.5	Pass
		-10	NV	-4.068	-0.0022	-2.5 to 2.5	Pass
		0	NV	-5.359	-0.0029	-2.5 to 2.5	Pass
		10	NV	-16.530	-0.0089	-2.5 to 2.5	Pass
		30	NV	-8.911	-0.0048	-2.5 to 2.5	Pass
		40	NV	-22.245	-0.0120	-2.5 to 2.5	Pass
	50	NV	12.656	0.0068	-2.5 to 2.5	Pass	
	1880	20	LV	-0.839	-0.0004	-2.5 to 2.5	Pass
			NV	1.291	0.0007	-2.5 to 2.5	Pass
			HV	-7.006	-0.0037	-2.5 to 2.5	Pass
		-30	NV	-2.647	-0.0014	-2.5 to 2.5	Pass
		-20	NV	-6.780	-0.0036	-2.5 to 2.5	Pass
		-10	NV	-2.680	-0.0014	-2.5 to 2.5	Pass
		0	NV	-3.810	-0.0020	-2.5 to 2.5	Pass
		10	NV	9.718	0.0052	-2.5 to 2.5	Pass
		30	NV	10.816	0.0058	-2.5 to 2.5	Pass
		40	NV	9.298	0.0049	-2.5 to 2.5	Pass
	50	NV	6.005	0.0032	-2.5 to 2.5	Pass	
	1909.8	20	LV	-6.328	-0.0033	-2.5 to 2.5	Pass
			NV	-6.748	-0.0035	-2.5 to 2.5	Pass
			HV	-7.458	-0.0039	-2.5 to 2.5	Pass
		-30	NV	-3.681	-0.0019	-2.5 to 2.5	Pass
		-20	NV	-1.905	-0.0010	-2.5 to 2.5	Pass
		-10	NV	-5.973	-0.0031	-2.5 to 2.5	Pass
		0	NV	-4.455	-0.0023	-2.5 to 2.5	Pass
		10	NV	-8.879	-0.0046	-2.5 to 2.5	Pass
30		NV	0.291	0.0002	-2.5 to 2.5	Pass	
40		NV	-6.425	-0.0034	-2.5 to 2.5	Pass	
50	NV	-9.847	-0.0052	-2.5 to 2.5	Pass		
GPRS	1850.2	20	LV	-12.010	-0.0065	-2.5 to 2.5	Pass
			NV	-10.396	-0.0056	-2.5 to 2.5	Pass
			HV	-13.108	-0.0071	-2.5 to 2.5	Pass
		-30	NV	-8.104	-0.0044	-2.5 to 2.5	Pass
		-20	NV	-9.169	-0.0050	-2.5 to 2.5	Pass
		-10	NV	-10.719	-0.0058	-2.5 to 2.5	Pass
		0	NV	-7.426	-0.0040	-2.5 to 2.5	Pass
		10	NV	-5.263	-0.0028	-2.5 to 2.5	Pass
		30	NV	-10.364	-0.0056	-2.5 to 2.5	Pass
		40	NV	-9.912	-0.0054	-2.5 to 2.5	Pass
	50	NV	-18.564	-0.0100	-2.5 to 2.5	Pass	
	1880	20	LV	-4.003	-0.0021	-2.5 to 2.5	Pass
			NV	-9.363	-0.0050	-2.5 to 2.5	Pass
			HV	-6.974	-0.0037	-2.5 to 2.5	Pass

		-30	NV	-7.426	-0.0040	-2.5 to 2.5	Pass
		-20	NV	-4.714	-0.0025	-2.5 to 2.5	Pass
		-10	NV	-4.843	-0.0026	-2.5 to 2.5	Pass
		0	NV	-9.653	-0.0051	-2.5 to 2.5	Pass
		10	NV	-23.633	-0.0126	-2.5 to 2.5	Pass
		30	NV	-7.942	-0.0042	-2.5 to 2.5	Pass
		40	NV	-2.486	-0.0013	-2.5 to 2.5	Pass
	50	NV	-0.904	-0.0005	-2.5 to 2.5	Pass	
	1909.8	20	LV	-10.719	-0.0056	-2.5 to 2.5	Pass
			NV	-7.103	-0.0037	-2.5 to 2.5	Pass
			HV	-9.427	-0.0049	-2.5 to 2.5	Pass
		-30	NV	-10.299	-0.0054	-2.5 to 2.5	Pass
		-20	NV	-5.101	-0.0027	-2.5 to 2.5	Pass
		-10	NV	-12.269	-0.0064	-2.5 to 2.5	Pass
0		NV	-6.715	-0.0035	-2.5 to 2.5	Pass	
10		NV	-8.943	-0.0047	-2.5 to 2.5	Pass	
30		NV	-13.269	-0.0069	-2.5 to 2.5	Pass	
40		NV	-8.330	-0.0044	-2.5 to 2.5	Pass	
50	NV	-5.101	-0.0027	-2.5 to 2.5	Pass		
EGPRS	1850.2	20	LV	-19.953	-0.0108	-2.5 to 2.5	Pass
			NV	-30.865	-0.0167	-2.5 to 2.5	Pass
			HV	-25.377	-0.0137	-2.5 to 2.5	Pass
		-30	NV	-25.506	-0.0138	-2.5 to 2.5	Pass
		-20	NV	-30.123	-0.0163	-2.5 to 2.5	Pass
		-10	NV	-23.440	-0.0127	-2.5 to 2.5	Pass
		0	NV	-28.186	-0.0152	-2.5 to 2.5	Pass
		10	NV	-30.930	-0.0167	-2.5 to 2.5	Pass
		30	NV	-28.282	-0.0153	-2.5 to 2.5	Pass
		40	NV	-27.088	-0.0146	-2.5 to 2.5	Pass
	50	NV	-25.086	-0.0136	-2.5 to 2.5	Pass	
	1880	20	LV	-26.055	-0.0139	-2.5 to 2.5	Pass
			NV	-26.733	-0.0142	-2.5 to 2.5	Pass
			HV	-23.569	-0.0125	-2.5 to 2.5	Pass
		-30	NV	-25.248	-0.0134	-2.5 to 2.5	Pass
		-20	NV	-19.307	-0.0103	-2.5 to 2.5	Pass
		-10	NV	-22.148	-0.0118	-2.5 to 2.5	Pass
		0	NV	-24.828	-0.0132	-2.5 to 2.5	Pass
		10	NV	-34.094	-0.0181	-2.5 to 2.5	Pass
		30	NV	-23.084	-0.0123	-2.5 to 2.5	Pass
		40	NV	-22.632	-0.0120	-2.5 to 2.5	Pass
	50	NV	-19.694	-0.0105	-2.5 to 2.5	Pass	
	1909.8	20	LV	-21.115	-0.0111	-2.5 to 2.5	Pass
			NV	-21.664	-0.0113	-2.5 to 2.5	Pass
HV			-27.185	-0.0142	-2.5 to 2.5	Pass	
-30		NV	-18.855	-0.0099	-2.5 to 2.5	Pass	
-20		NV	-29.929	-0.0157	-2.5 to 2.5	Pass	
-10		NV	-21.793	-0.0114	-2.5 to 2.5	Pass	
0		NV	-19.856	-0.0104	-2.5 to 2.5	Pass	
10		NV	-19.759	-0.0103	-2.5 to 2.5	Pass	
30		NV	-22.665	-0.0119	-2.5 to 2.5	Pass	
40		NV	-14.981	-0.0078	-2.5 to 2.5	Pass	
50	NV	-21.987	-0.0115	-2.5 to 2.5	Pass		

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

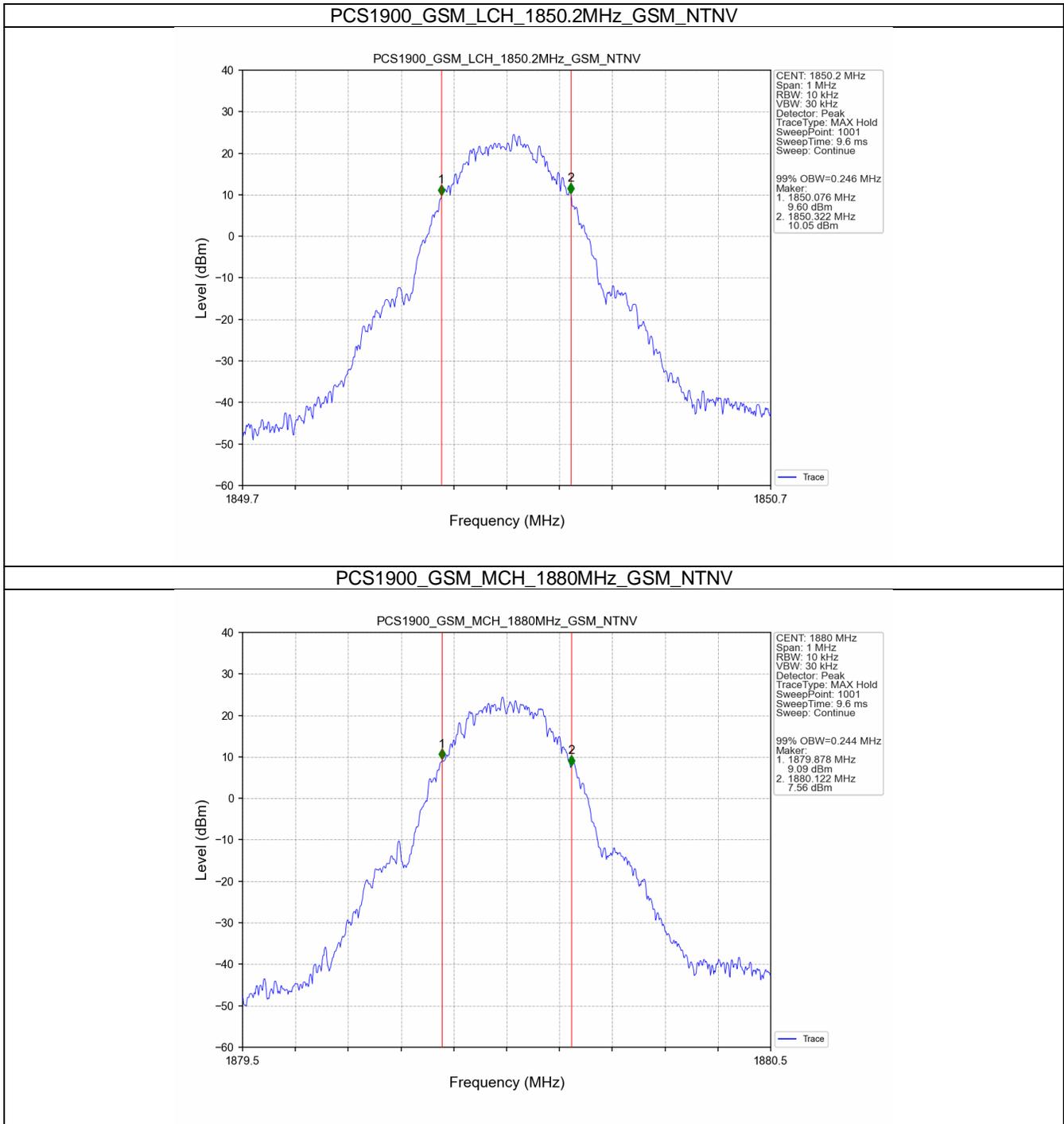
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.246	/	Pass
			1880	0.244	/	Pass
			1909.8	0.248	/	Pass
	GPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.242	/	Pass
			1909.8	0.244	/	Pass
	EGPRS	1 TX Slot	1850.2	0.242	/	Pass
			1880	0.247	/	Pass
			1909.8	0.245	/	Pass

3.1.2 PCS1900_XDB

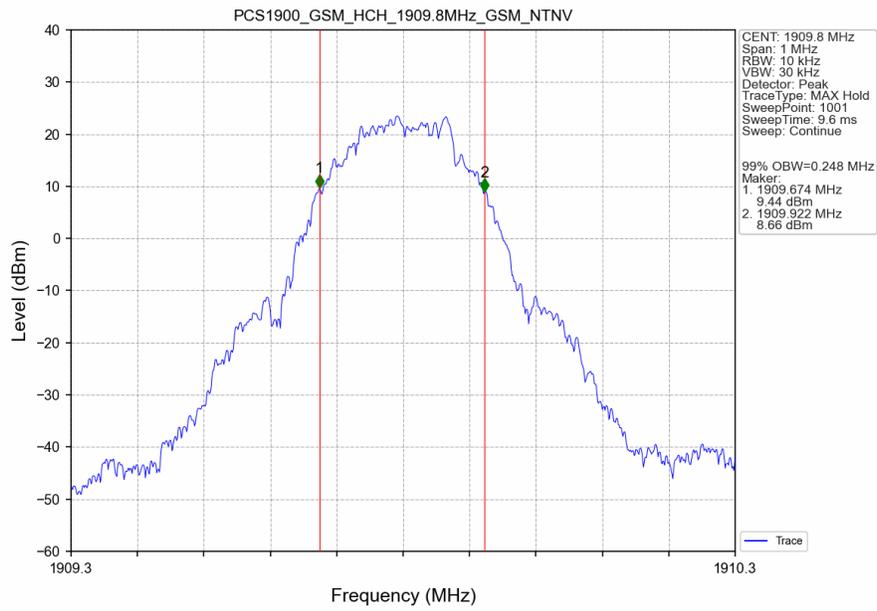
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ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.318	/	Pass
			1880	0.313	/	Pass
			1909.8	0.323	/	Pass
	GPRS	1 TX Slot	1850.2	0.325	/	Pass
			1880	0.315	/	Pass
			1909.8	0.310	/	Pass
	EGPRS	1 TX Slot	1850.2	0.309	/	Pass
			1880	0.321	/	Pass
			1909.8	0.311	/	Pass

3.2 Test Graph

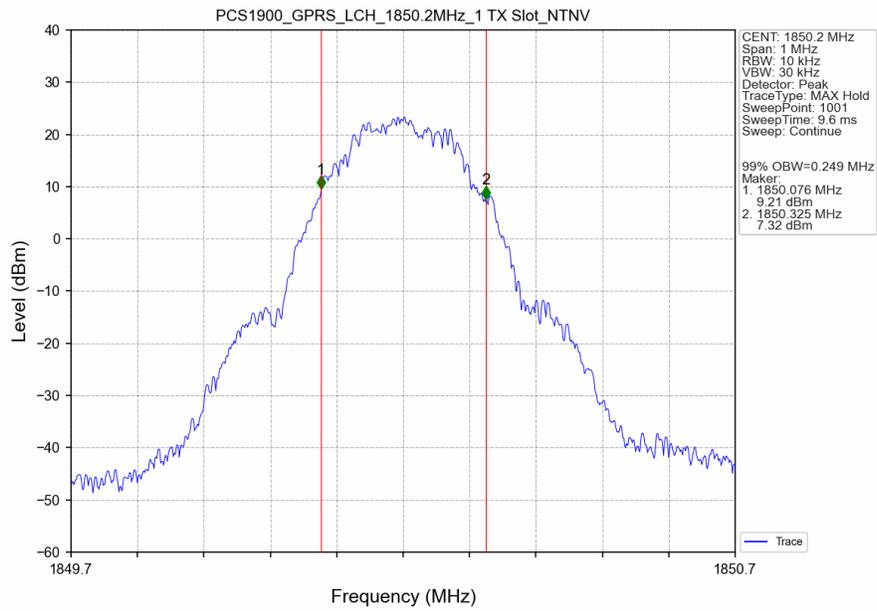
3.2.1 PCS1900_OBW



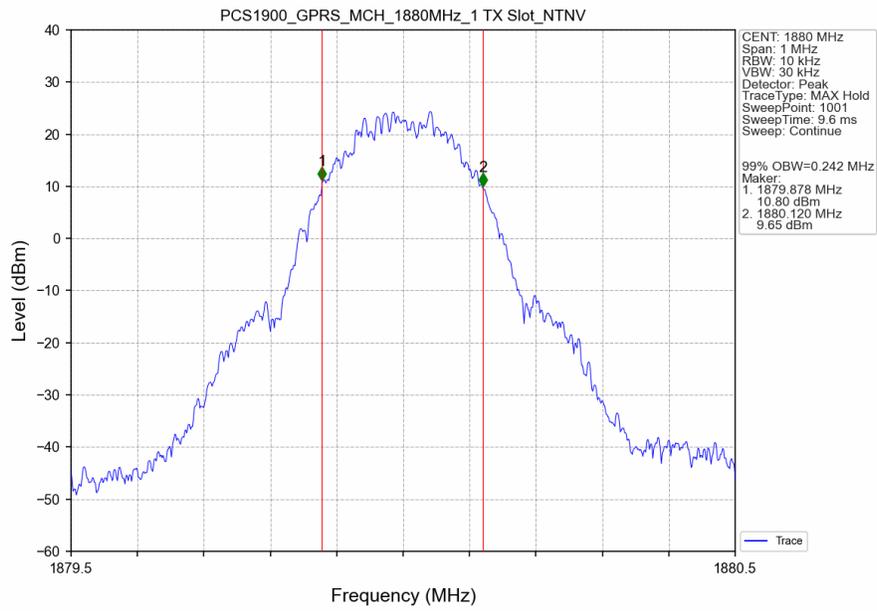
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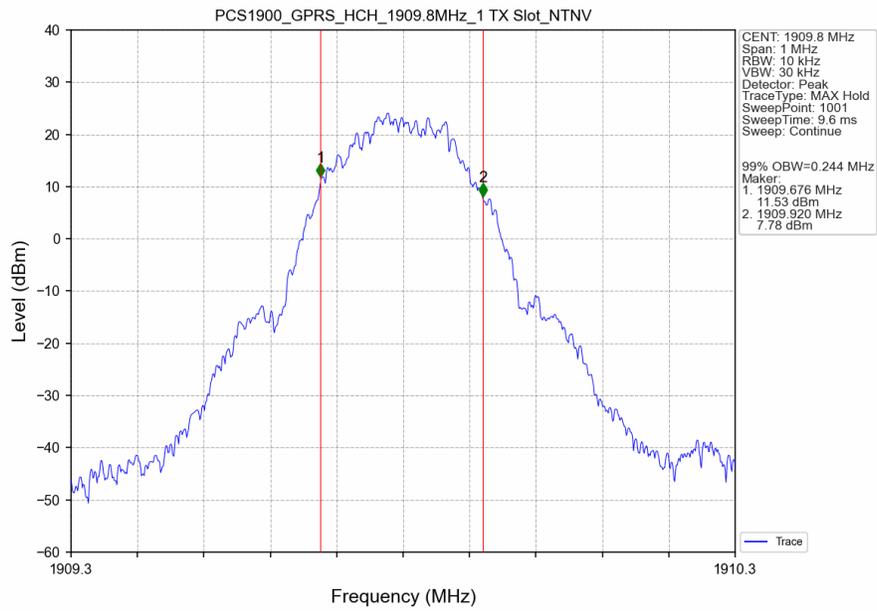
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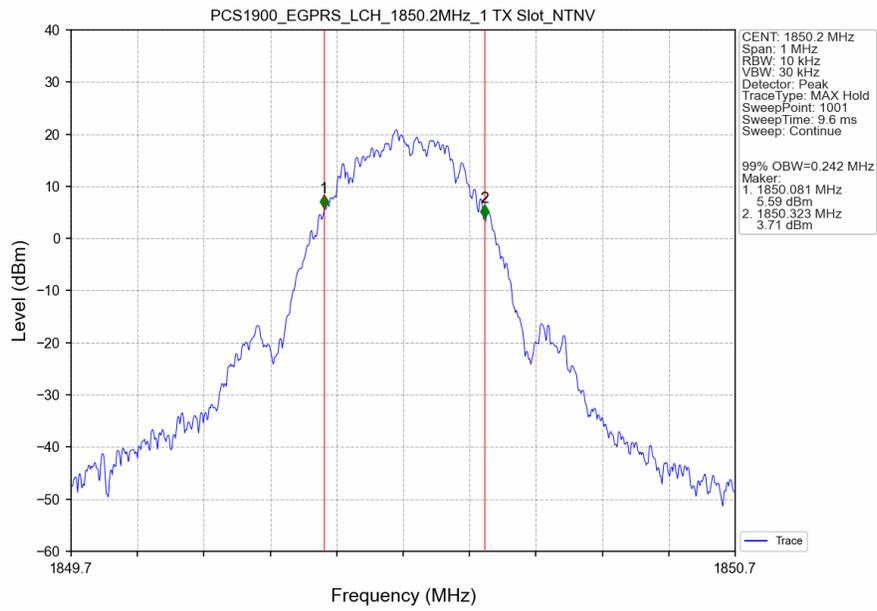
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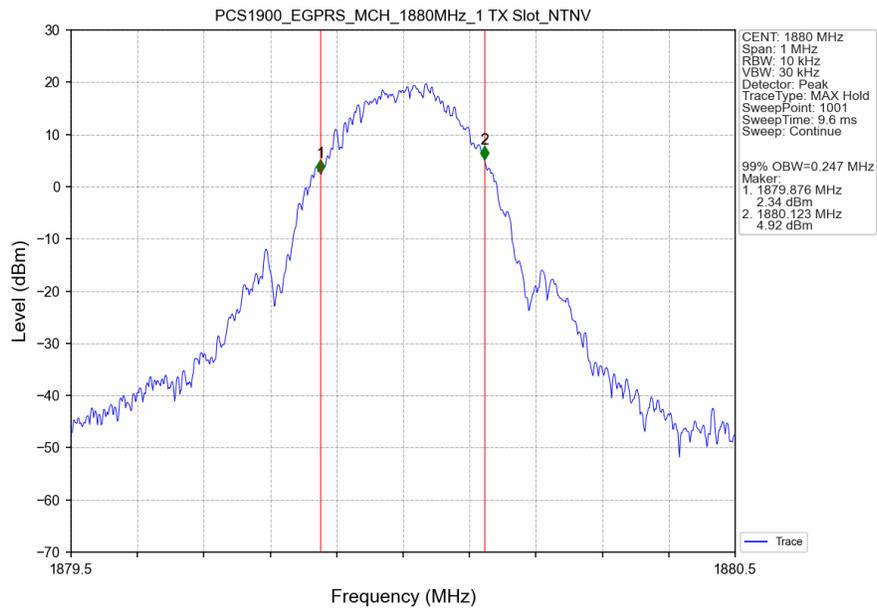
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



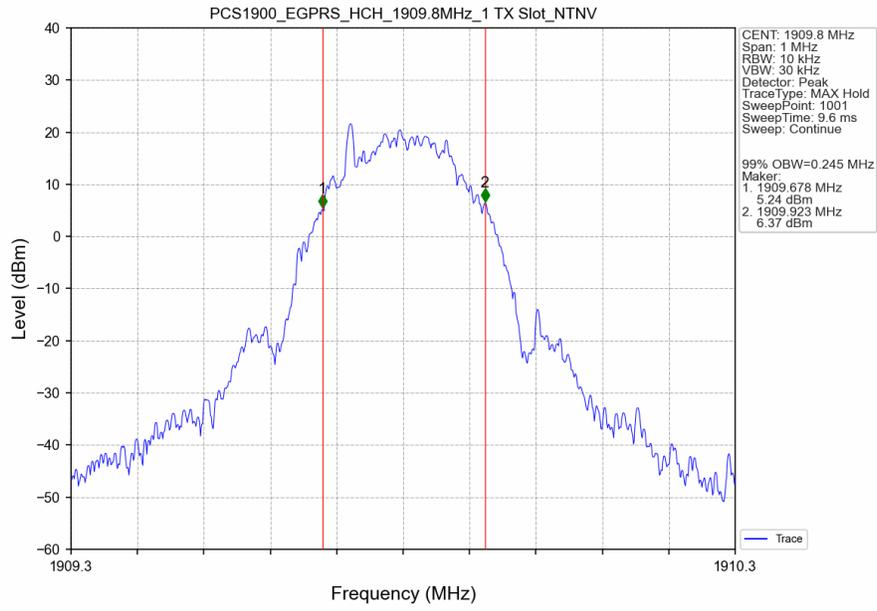
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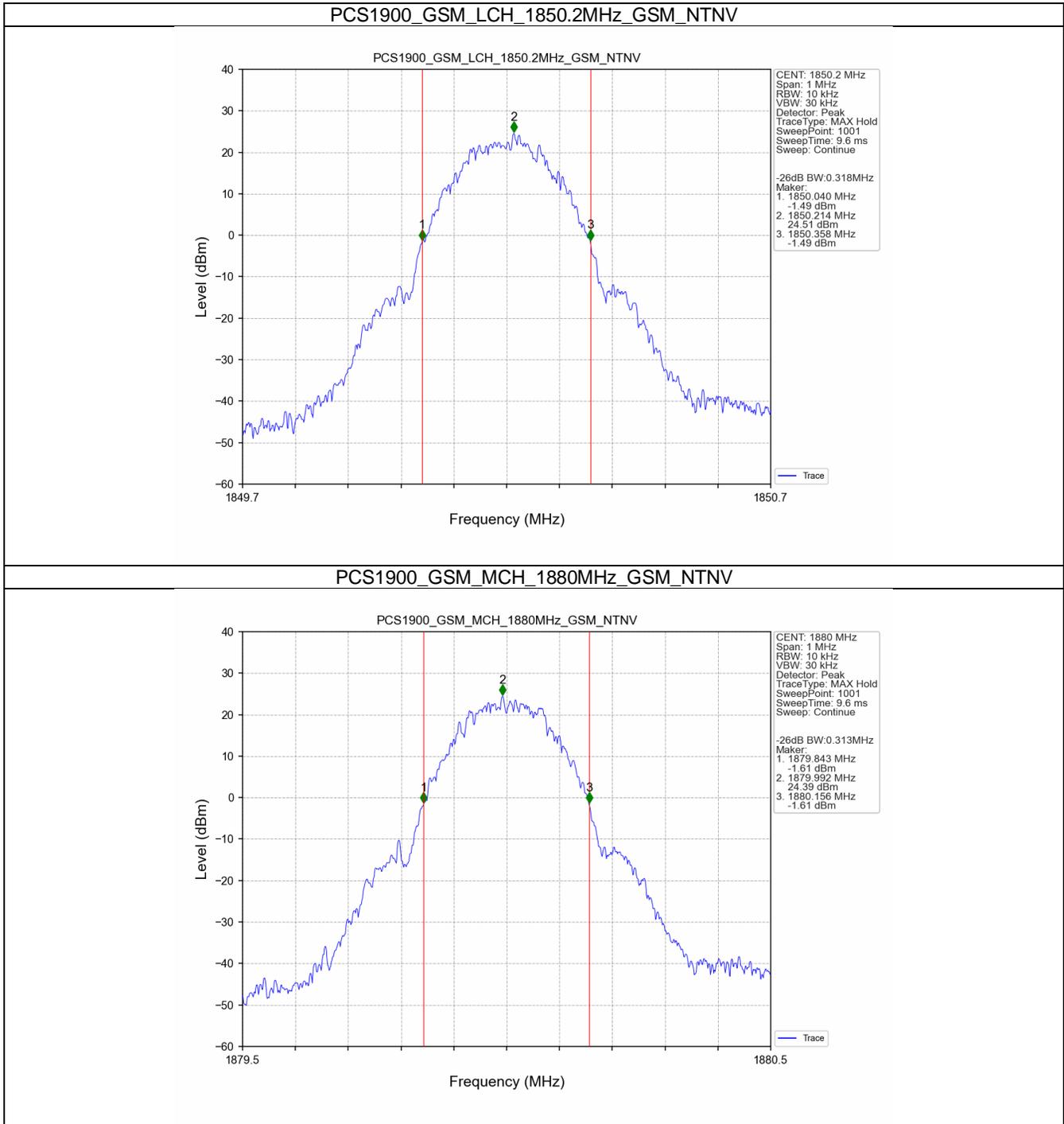
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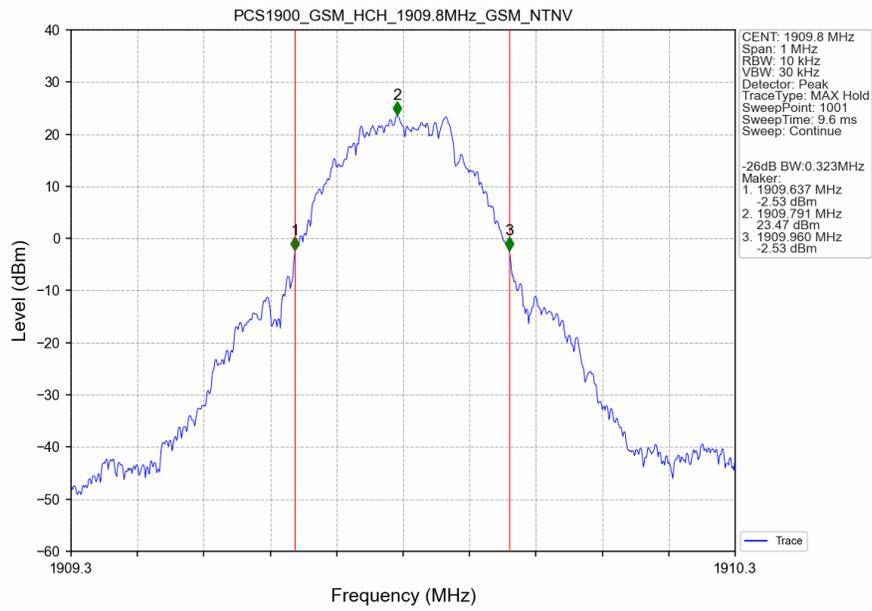
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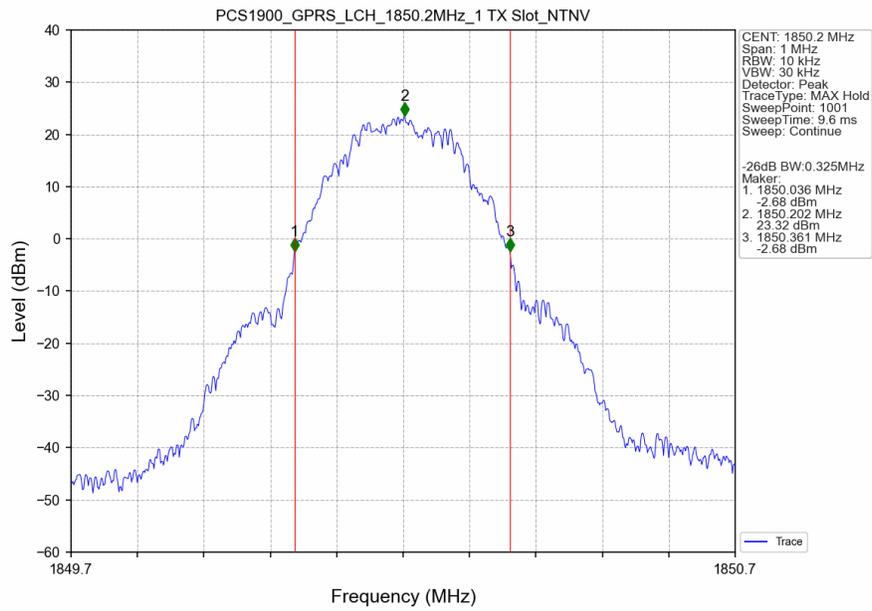
3.2.2 PCS1900_XDB



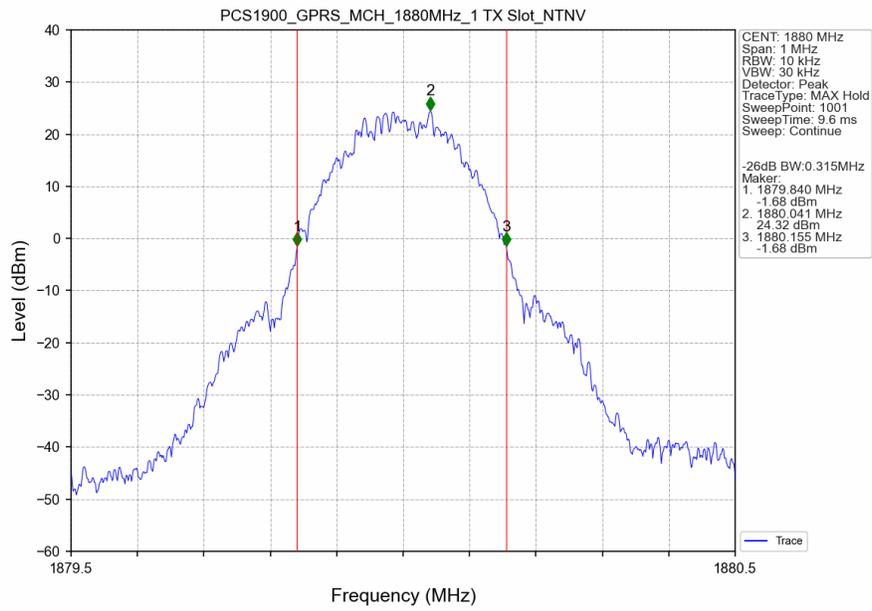
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



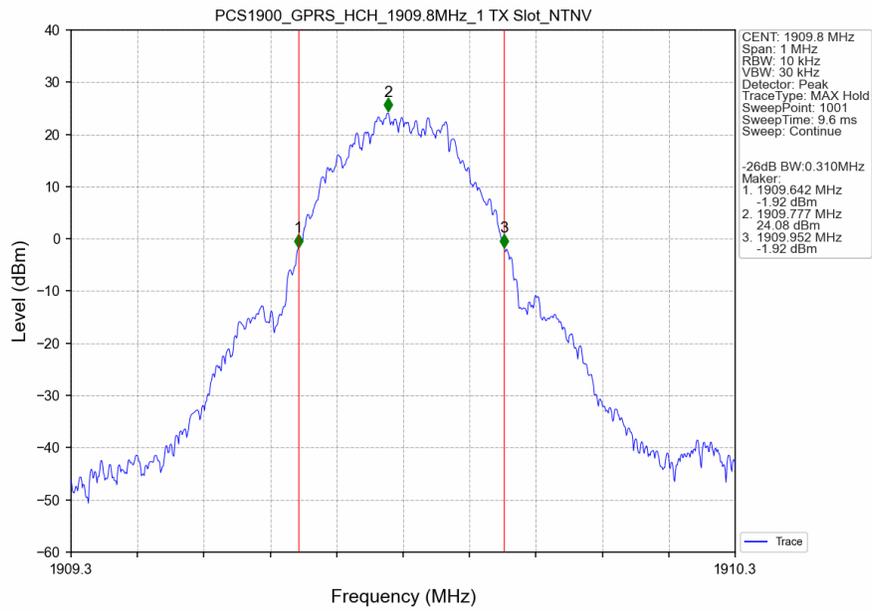
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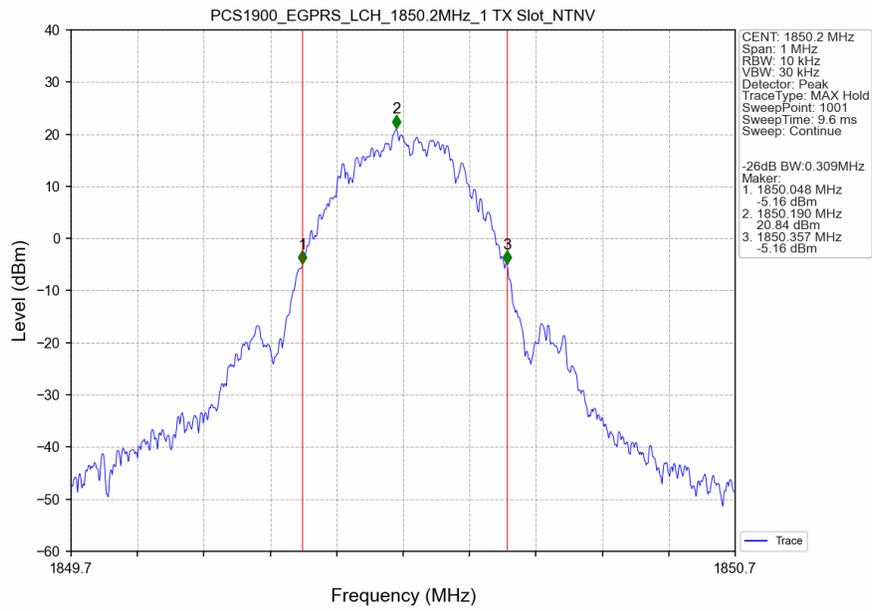
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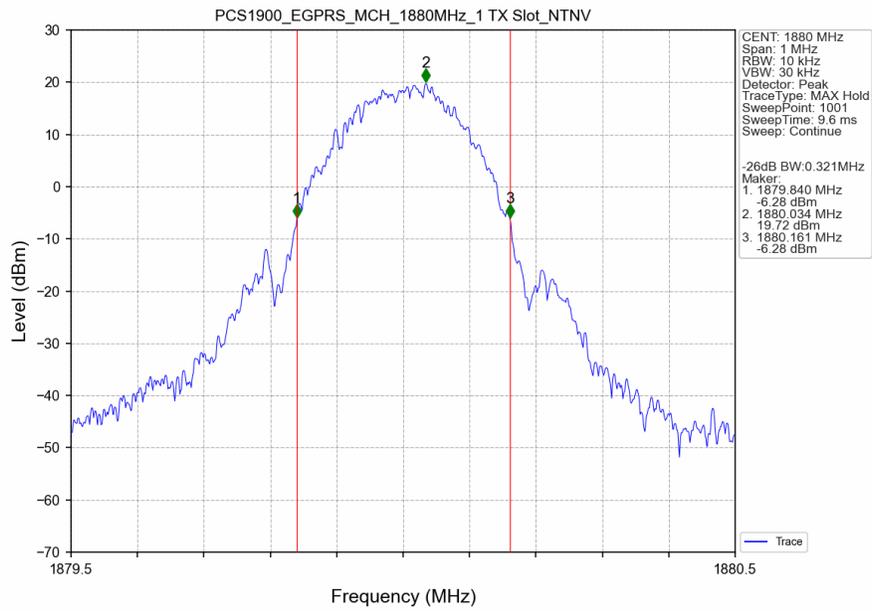
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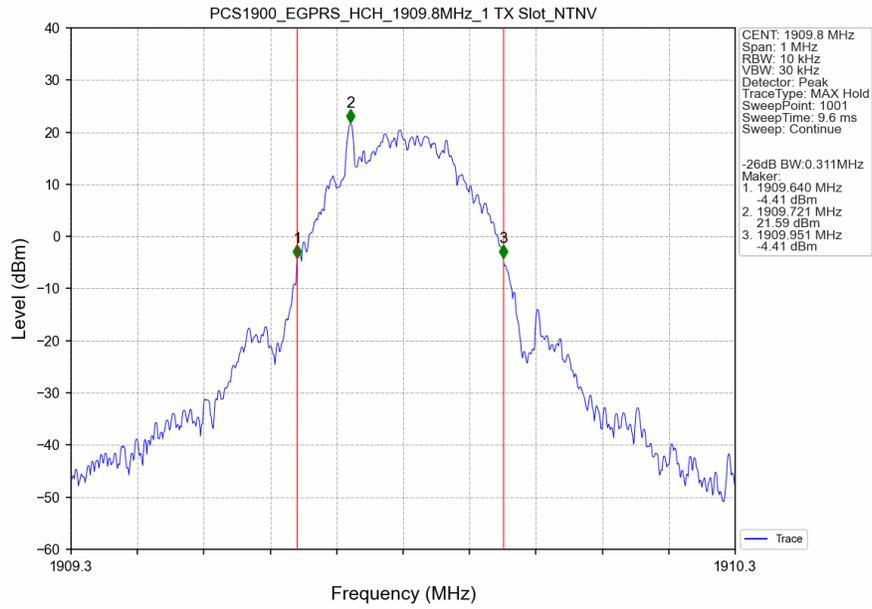
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

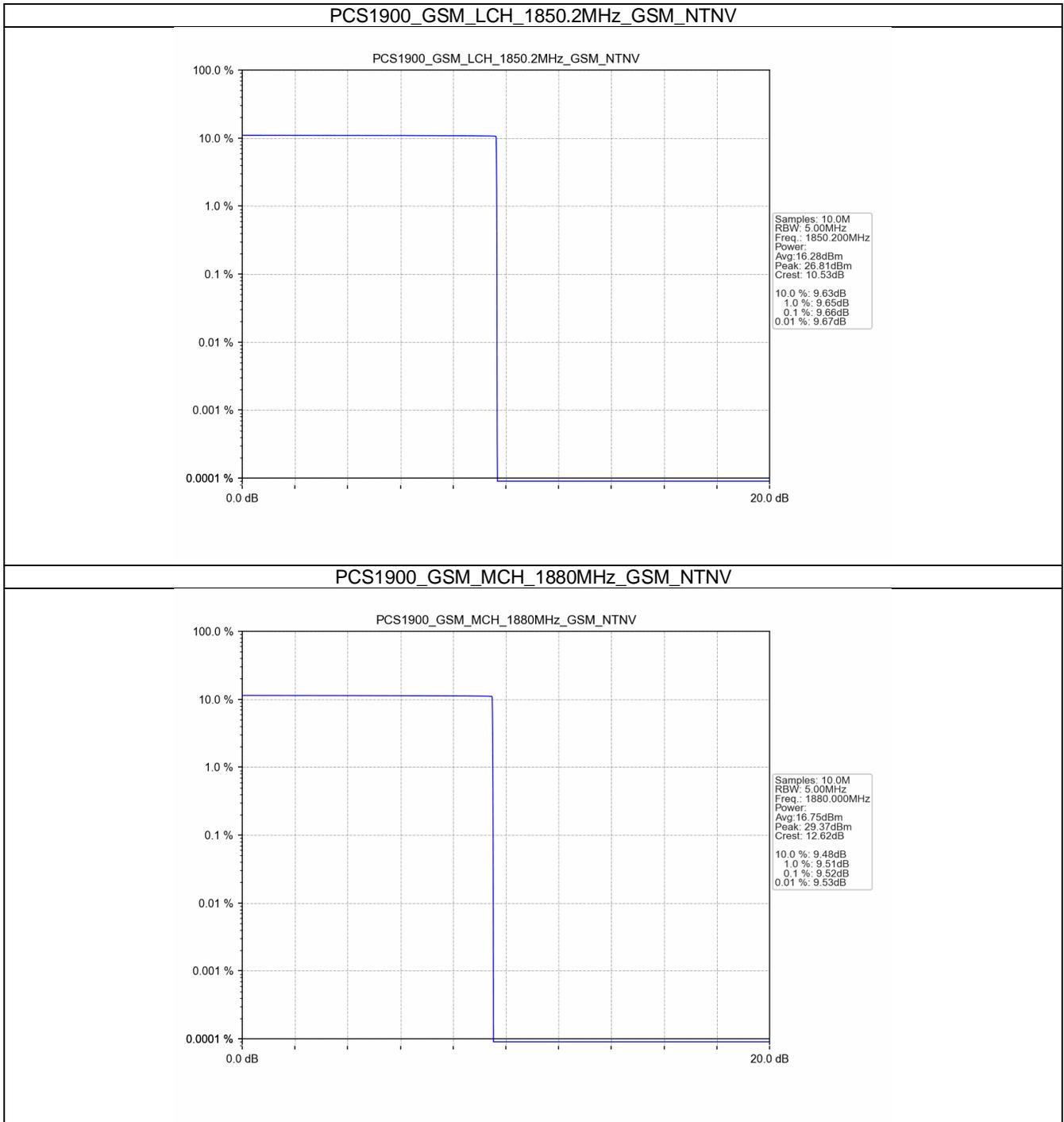
4.1 Test Result

4.1.1 PCS1900

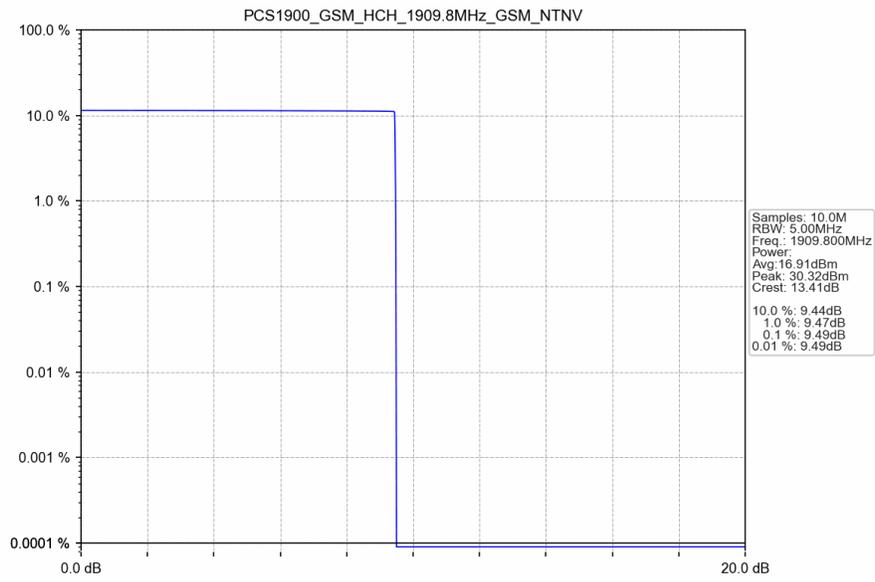
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.66	<=13	Pass
			1880	9.52	<=13	Pass
			1909.8	9.49	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.50	<=13	Pass
			1880	3.43	<=13	Pass
			1909.8	3.51	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.70	<=13	Pass
			1880	8.77	<=13	Pass
			1909.8	9.12	<=13	Pass

4.2 Test Graph

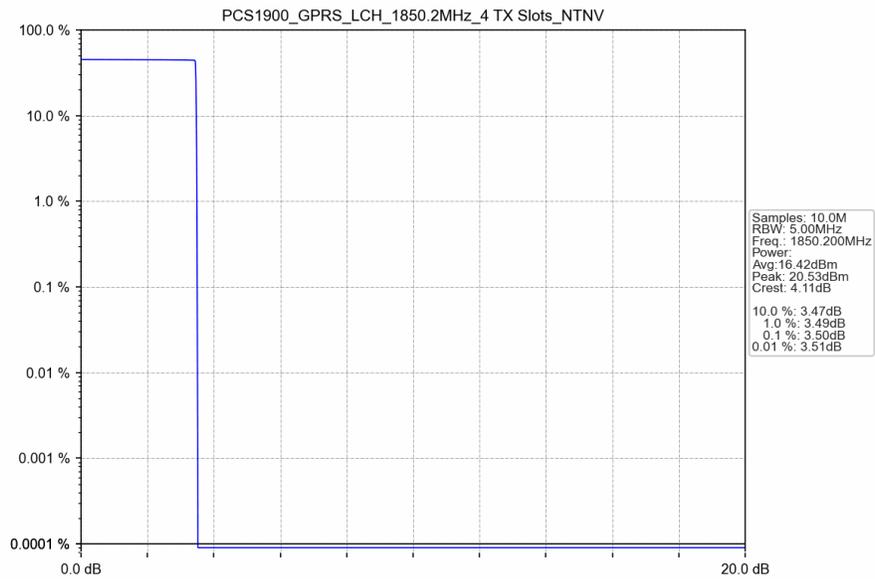
4.2.1 PCS1900



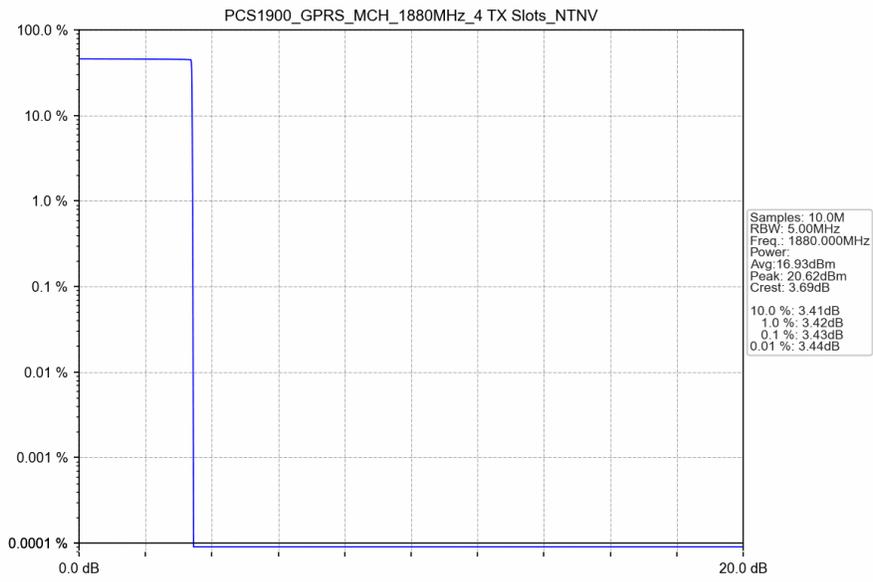
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



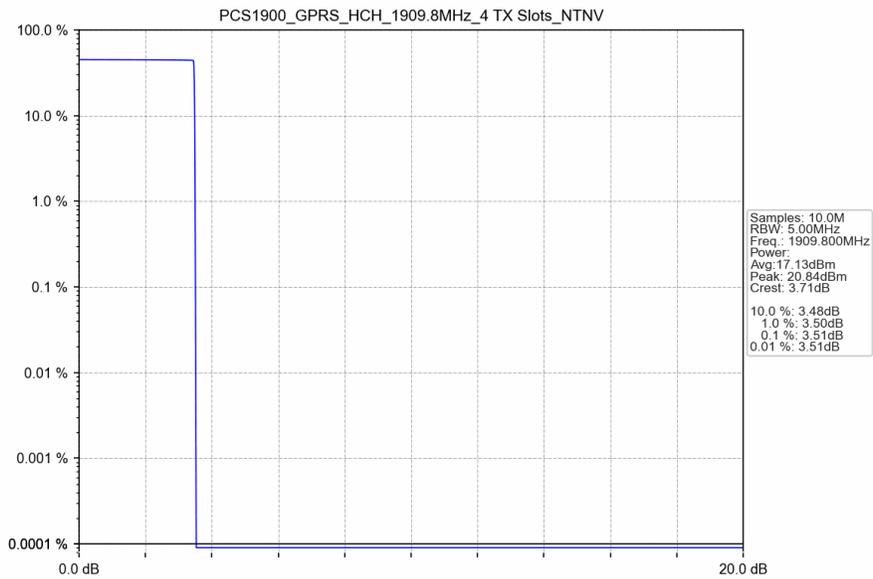
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



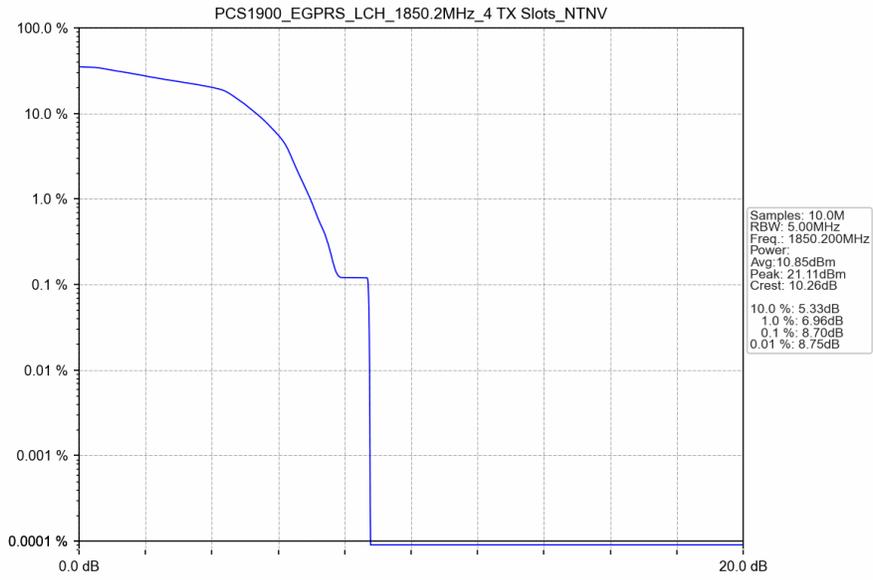
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



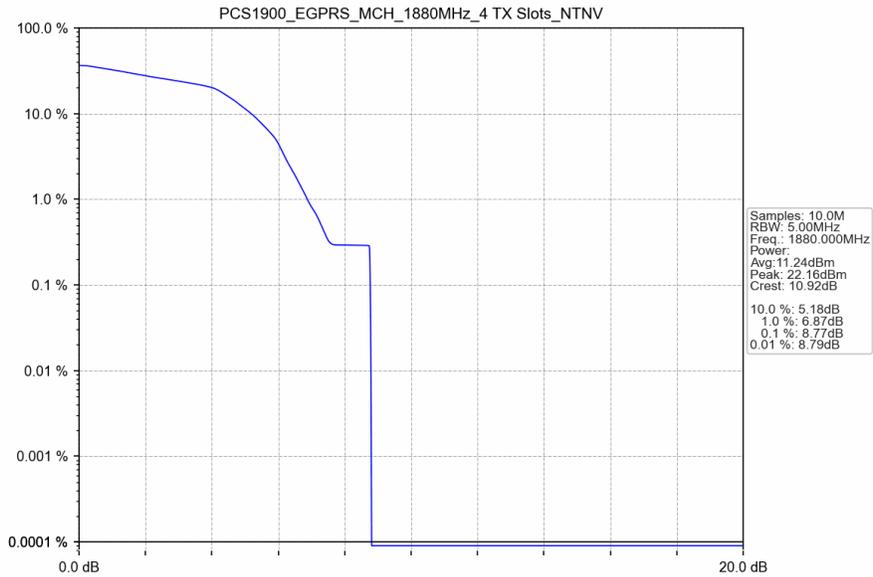
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



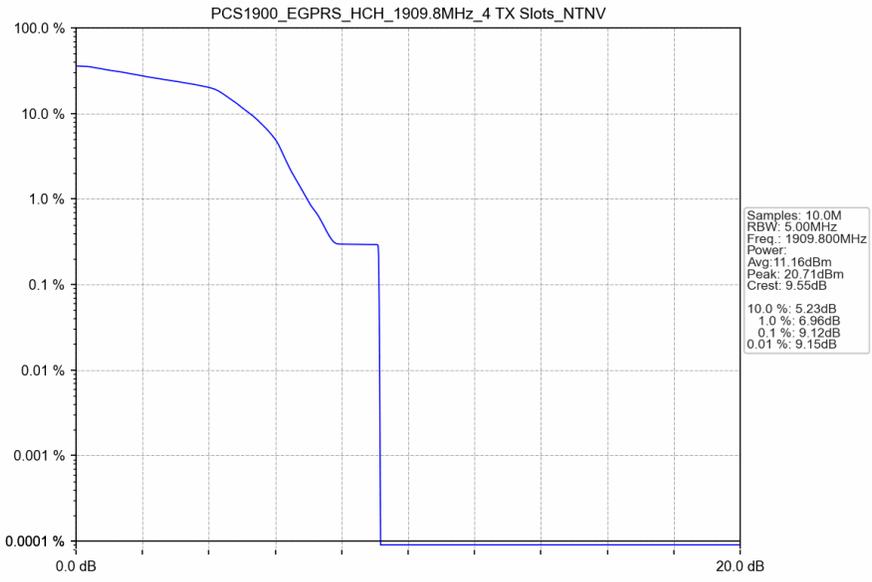
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



5. Spurious Emission

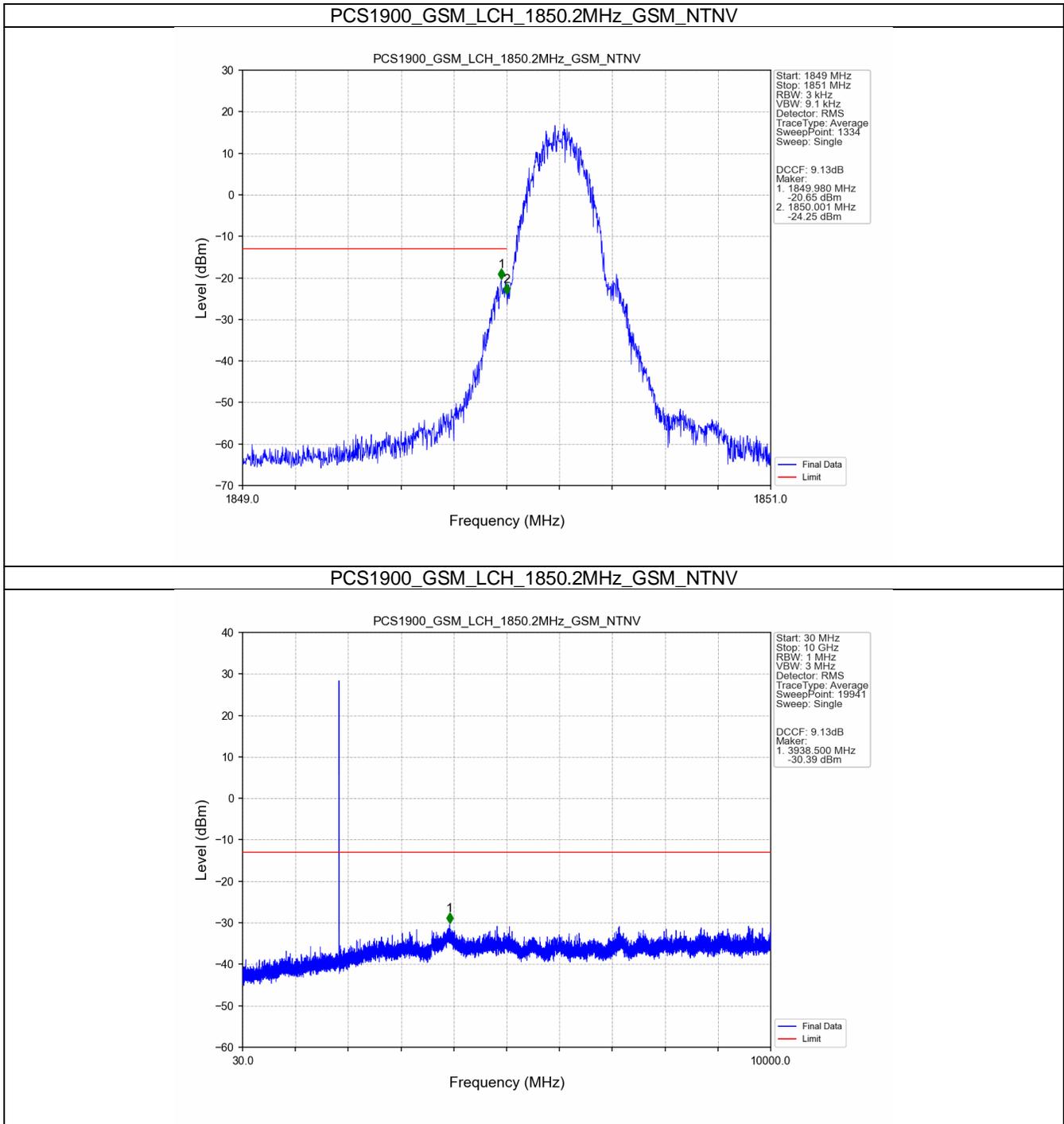
5.1 Test Result

5.1.1 PCS1900

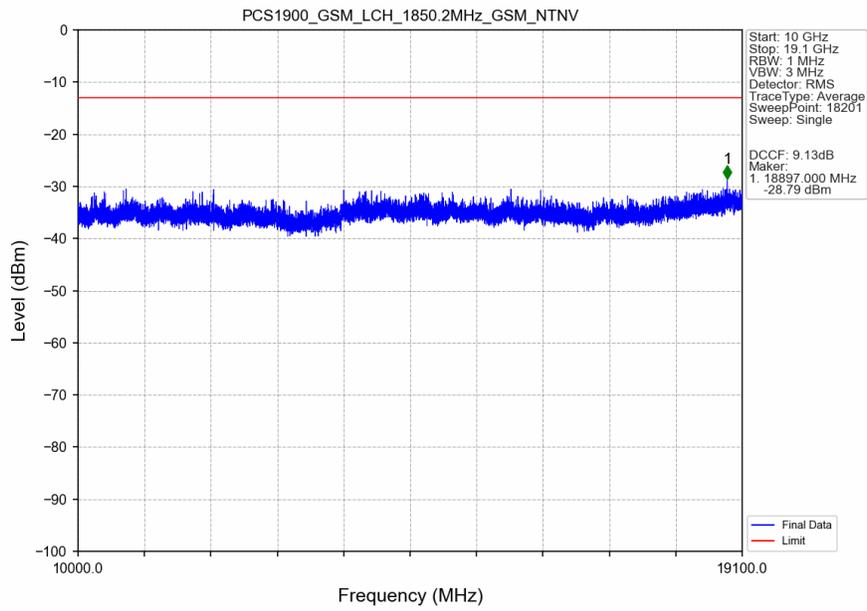
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass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

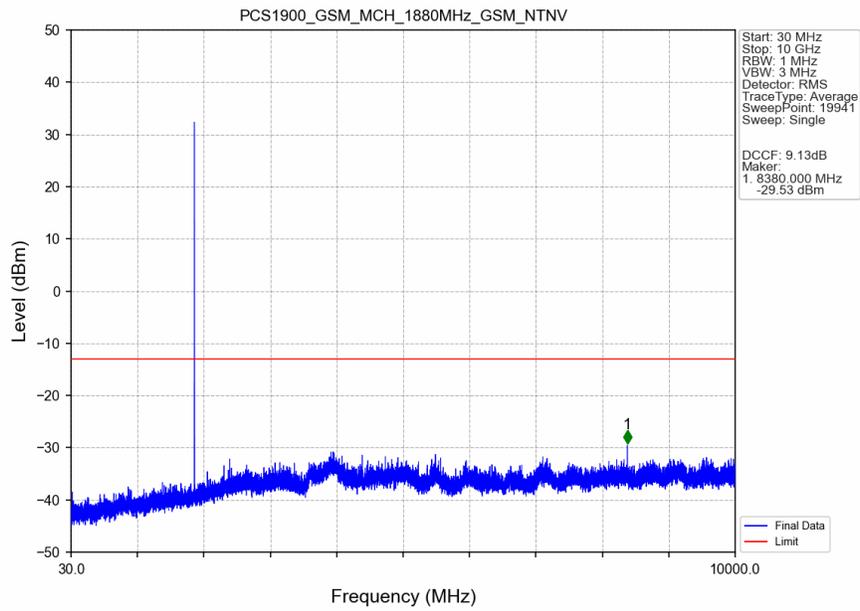
5.2.1 PCS1900



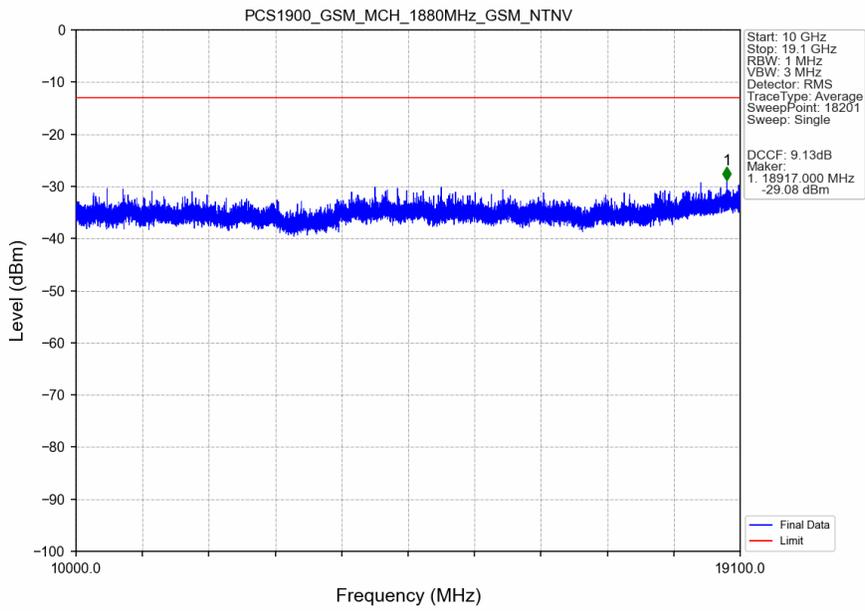
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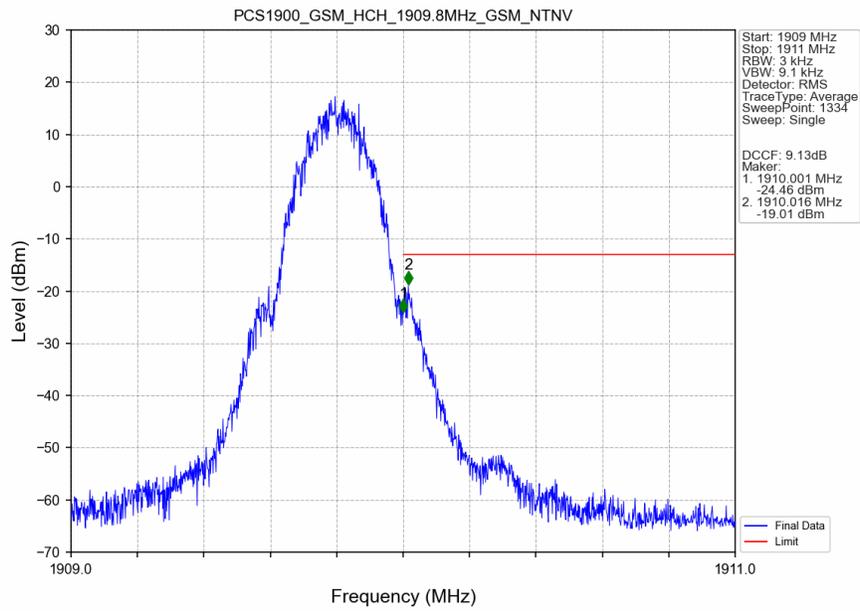
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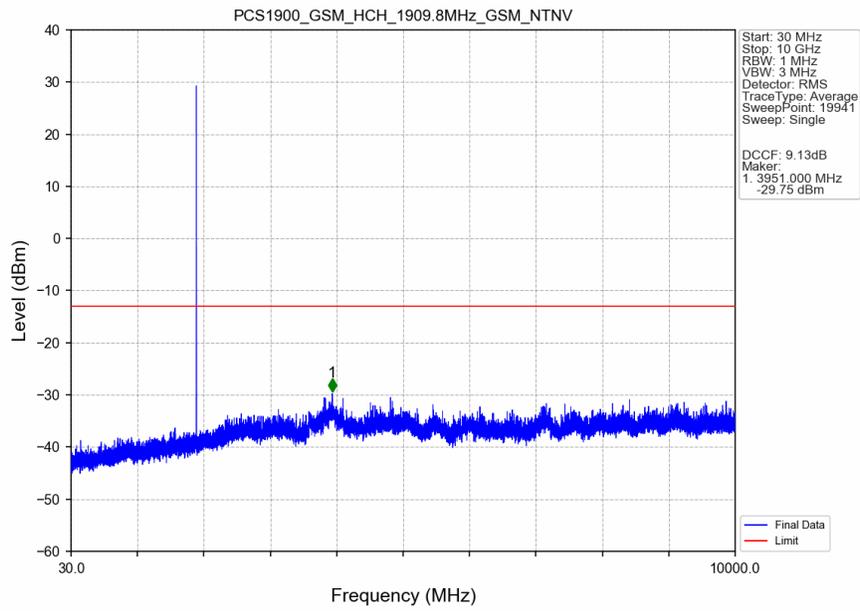
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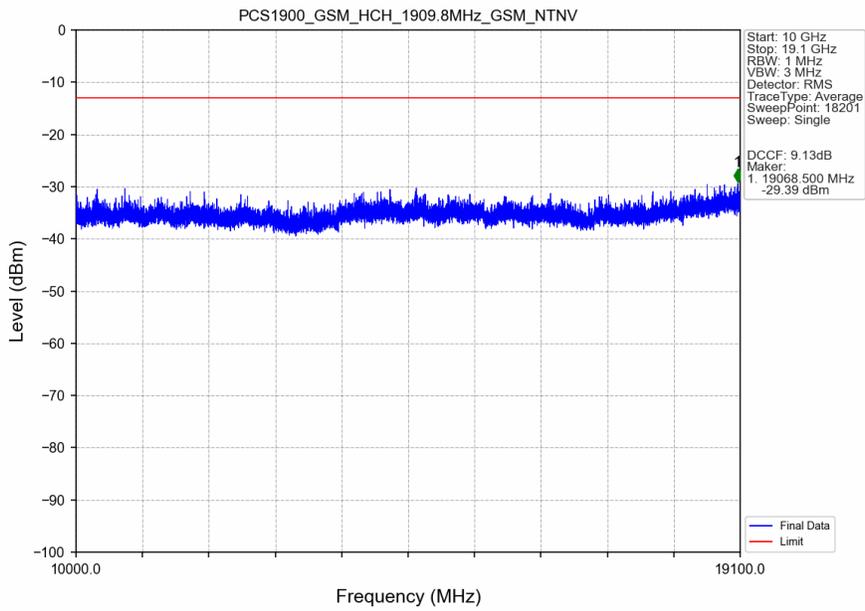
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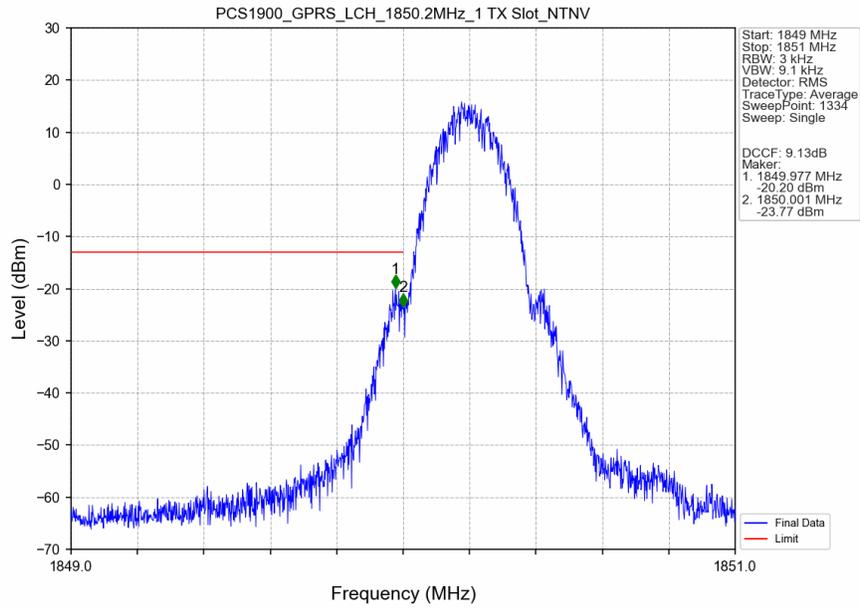
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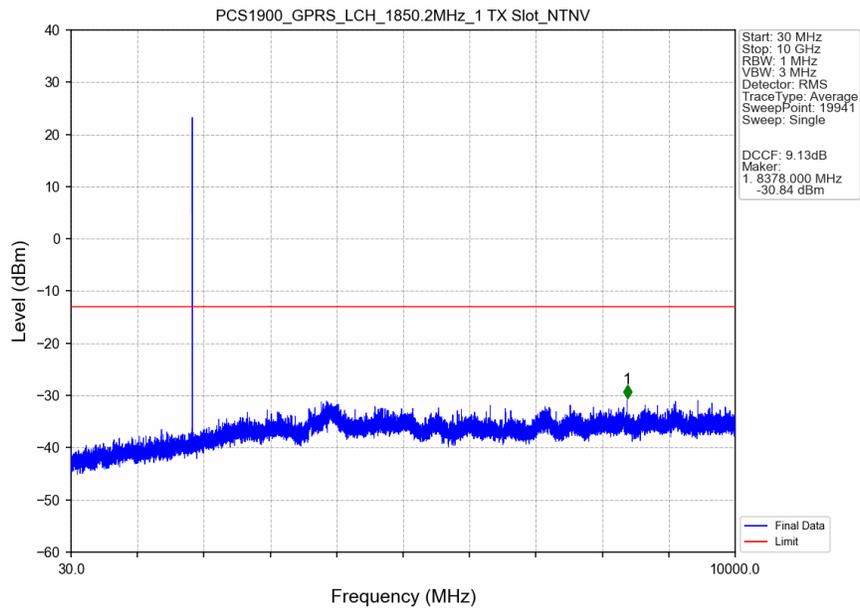
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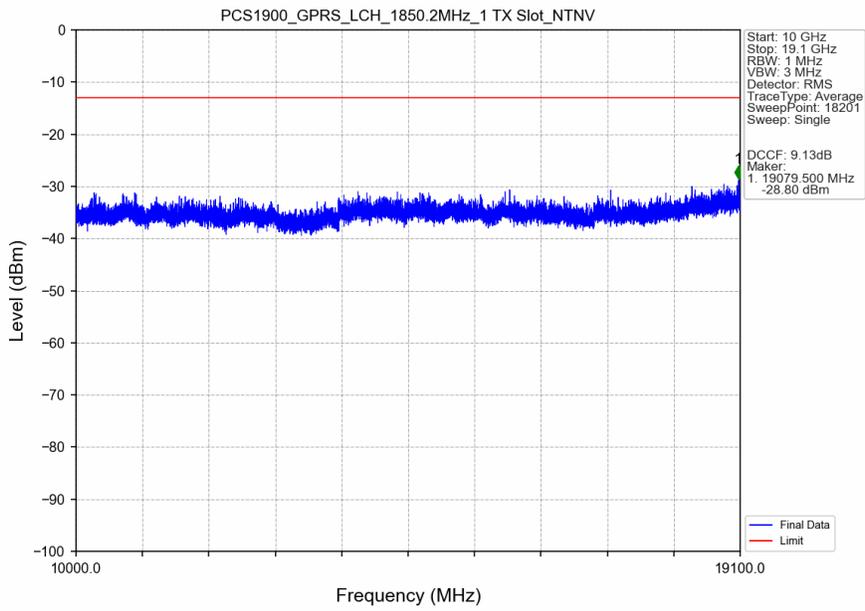
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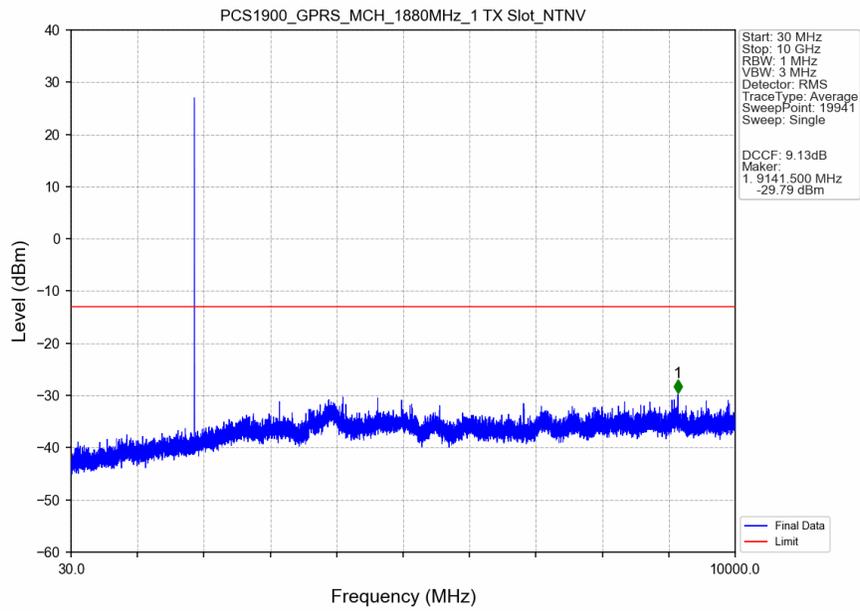
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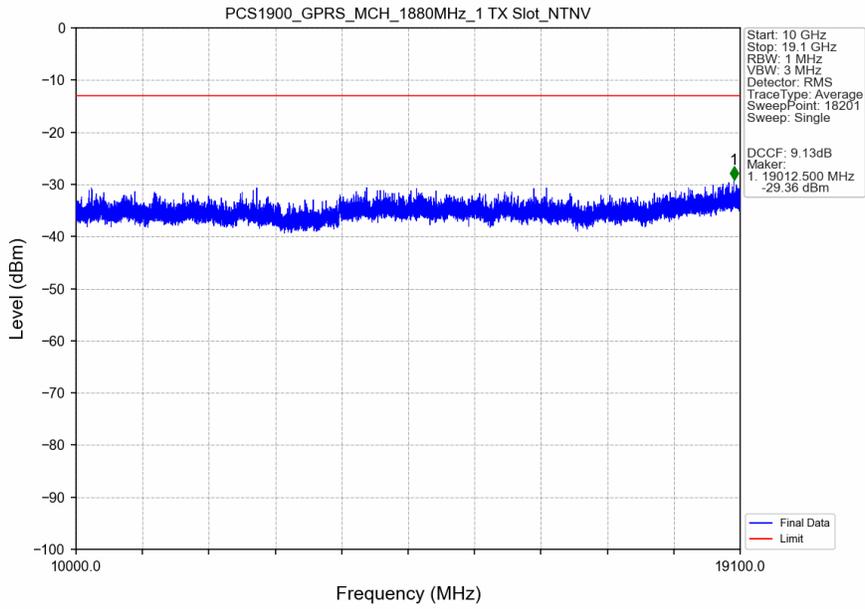
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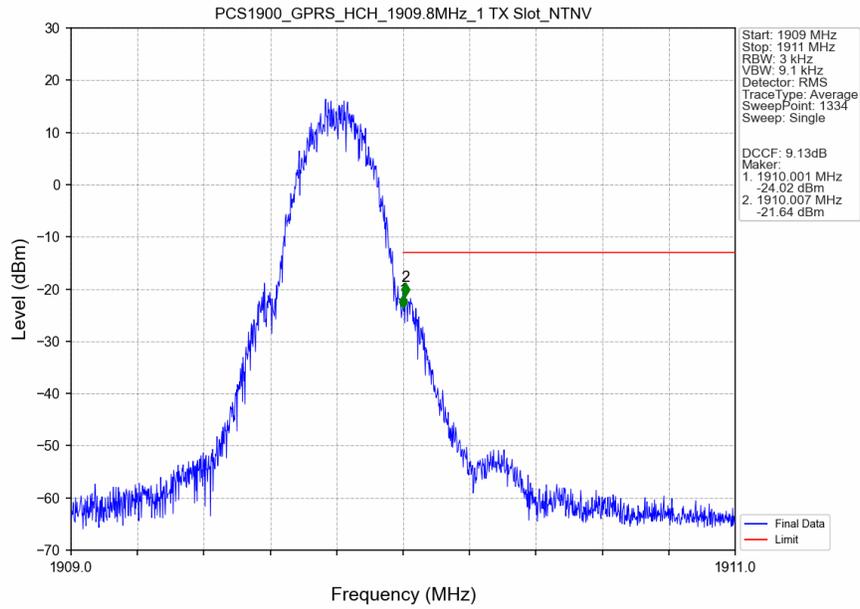
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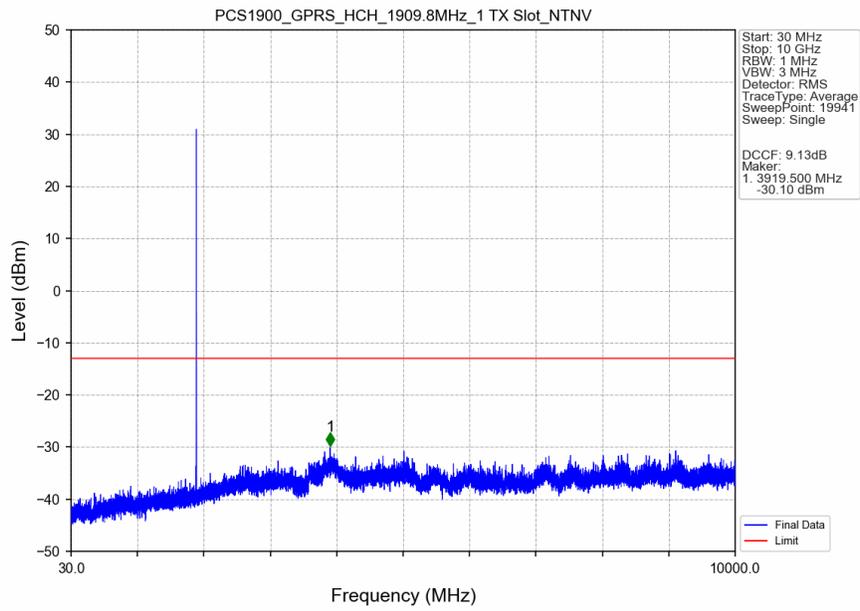
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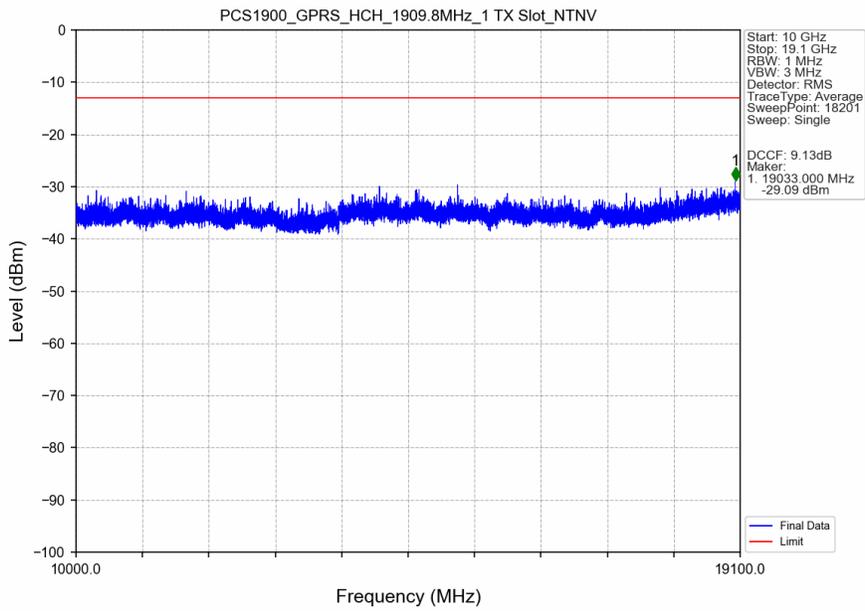
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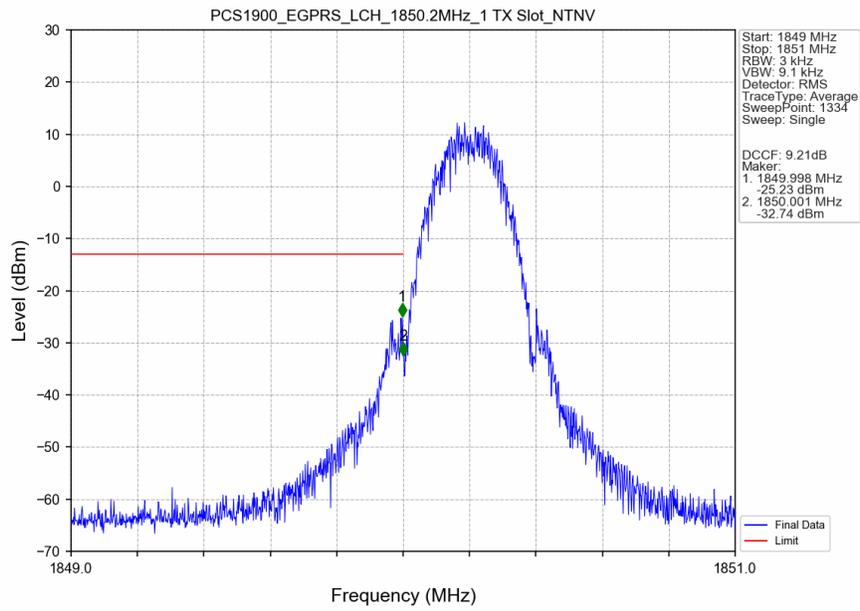
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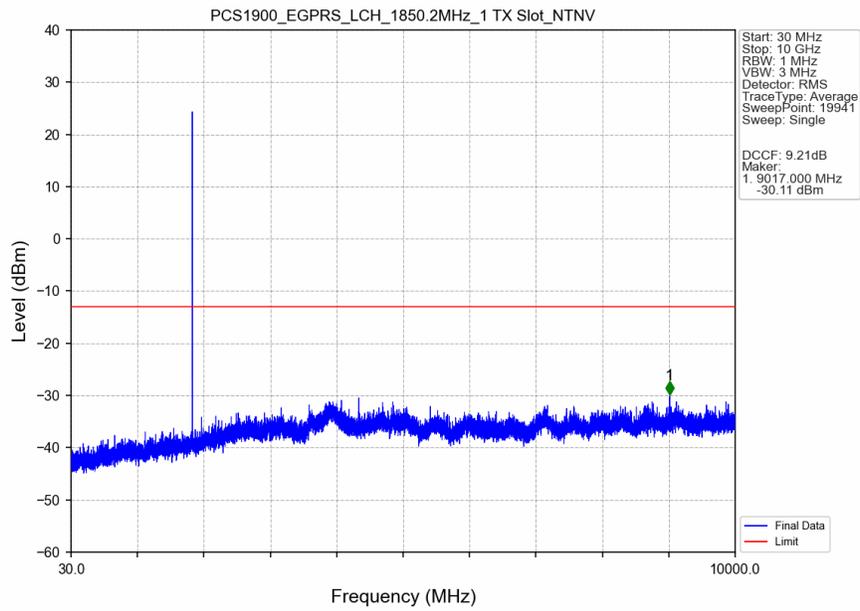
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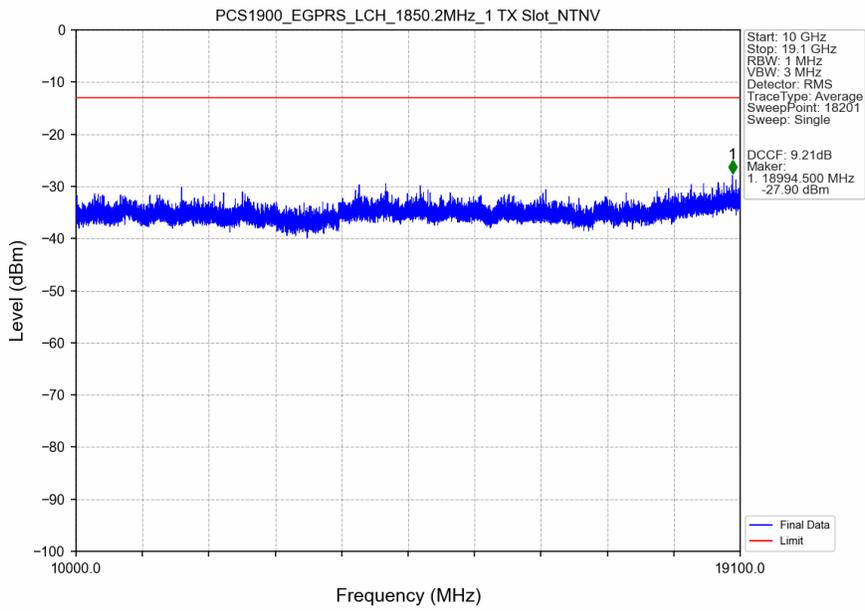
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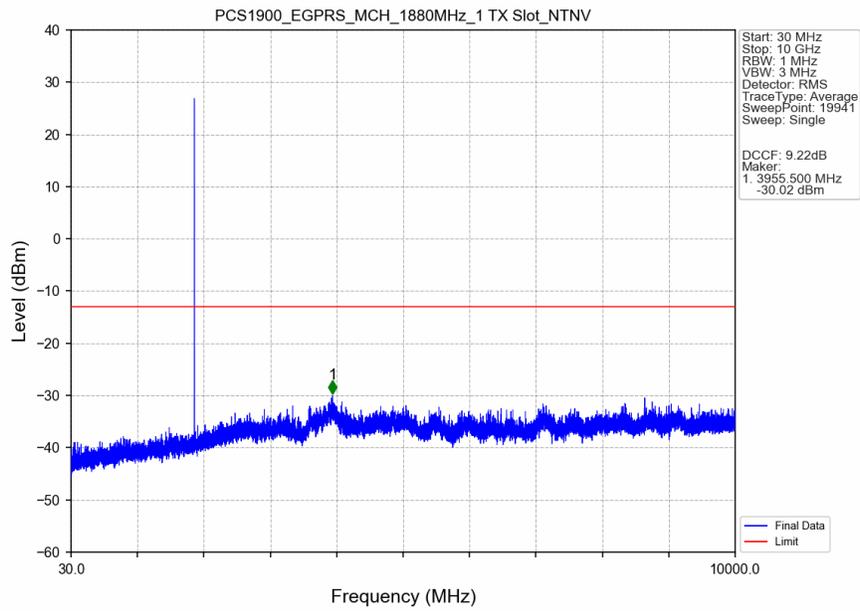
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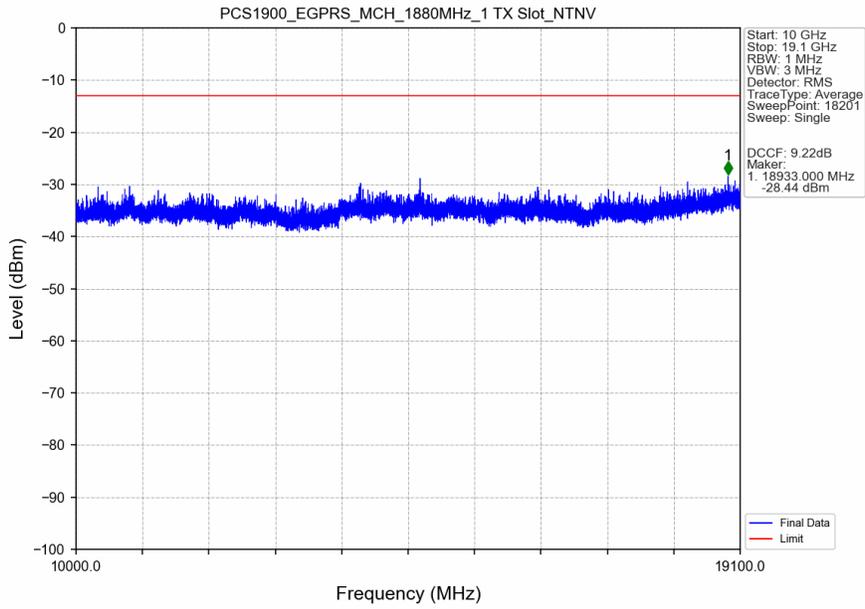
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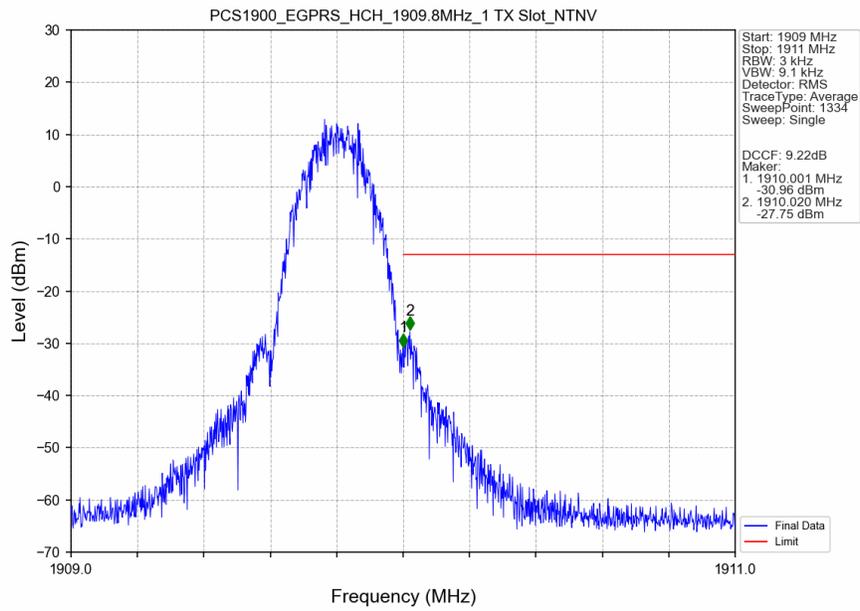
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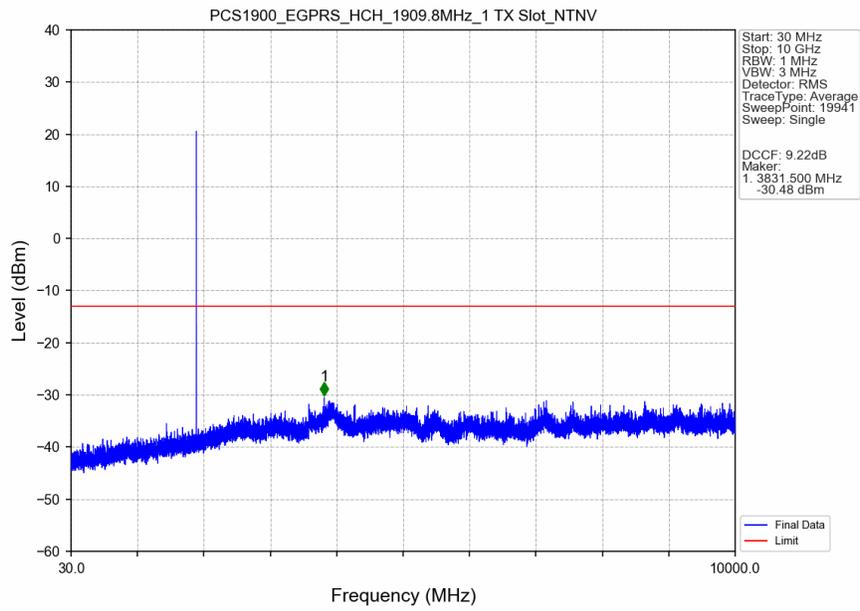
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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