

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	30.18	1.50	31.68	<=33.01	Pass
			1880	30.46	1.50	31.96	<=33.01	Pass
			1909.8	30.39	1.50	31.89	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	30.21	1.50	31.71	<=33.01	Pass
		2 TX Slots	1850.2	29.13	1.50	30.63	<=33.01	Pass
		3 TX Slots	1850.2	27.15	1.50	28.65	<=33.01	Pass
		4 TX Slots	1850.2	26.00	1.50	27.50	<=33.01	Pass
		1 TX Slot	1880	30.46	1.50	31.96	<=33.01	Pass
		2 TX Slots	1880	29.38	1.50	30.88	<=33.01	Pass
		3 TX Slots	1880	27.40	1.50	28.90	<=33.01	Pass
		4 TX Slots	1880	26.26	1.50	27.76	<=33.01	Pass
		1 TX Slot	1909.8	30.40	1.50	31.90	<=33.01	Pass
		2 TX Slots	1909.8	29.38	1.50	30.88	<=33.01	Pass
		3 TX Slots	1909.8	27.30	1.50	28.80	<=33.01	Pass
		4 TX Slots	1909.8	26.17	1.50	27.67	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.08	1.50	27.58	<=33.01	Pass
		2 TX Slots	1850.2	25.59	1.50	27.09	<=33.01	Pass
		3 TX Slots	1850.2	23.57	1.50	25.07	<=33.01	Pass
		4 TX Slots	1850.2	22.64	1.50	24.14	<=33.01	Pass
		1 TX Slot	1880	26.46	1.50	27.96	<=33.01	Pass
		2 TX Slots	1880	25.59	1.50	27.09	<=33.01	Pass
		3 TX Slots	1880	23.68	1.50	25.18	<=33.01	Pass
		4 TX Slots	1880	22.80	1.50	24.30	<=33.01	Pass
		1 TX Slot	1909.8	26.45	1.50	27.95	<=33.01	Pass
		2 TX Slots	1909.8	25.88	1.50	27.38	<=33.01	Pass
		3 TX Slots	1909.8	23.89	1.50	25.39	<=33.01	Pass
		4 TX Slots	1909.8	22.76	1.50	24.26	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	1850.2	20	3.23	5.589	0.0030	-2.5 to 2.5	Pass
			3.80	9.213	0.0050	-2.5 to 2.5	Pass
			4.37	6.957	0.0038	-2.5 to 2.5	Pass
		-30	3.80	6.902	0.0037	-2.5 to 2.5	Pass
		-20	3.80	9.738	0.0053	-2.5 to 2.5	Pass
		-10	3.80	7.733	0.0042	-2.5 to 2.5	Pass
		0	3.80	6.580	0.0036	-2.5 to 2.5	Pass
		10	3.80	3.890	0.0021	-2.5 to 2.5	Pass

		30	3.80	4.614	0.0025	-2.5 to 2.5	Pass
		40	3.80	5.614	0.0030	-2.5 to 2.5	Pass
		50	3.80	2.268	0.0012	-2.5 to 2.5	Pass
	1880	20	3.23	6.644	0.0035	-2.5 to 2.5	Pass
			3.80	4.430	0.0024	-2.5 to 2.5	Pass
			4.37	6.456	0.0034	-2.5 to 2.5	Pass
		-30	3.80	8.360	0.0044	-2.5 to 2.5	Pass
		-20	3.80	4.650	0.0025	-2.5 to 2.5	Pass
		-10	3.80	8.487	0.0045	-2.5 to 2.5	Pass
		0	3.80	7.612	0.0040	-2.5 to 2.5	Pass
		10	3.80	9.971	0.0053	-2.5 to 2.5	Pass
		30	3.80	7.874	0.0042	-2.5 to 2.5	Pass
		40	3.80	8.140	0.0043	-2.5 to 2.5	Pass
		50	3.80	3.669	0.0020	-2.5 to 2.5	Pass
	1909.8	20	3.23	8.606	0.0045	-2.5 to 2.5	Pass
			3.80	7.312	0.0038	-2.5 to 2.5	Pass
			4.37	7.047	0.0037	-2.5 to 2.5	Pass
		-30	3.80	8.329	0.0044	-2.5 to 2.5	Pass
		-20	3.80	5.407	0.0028	-2.5 to 2.5	Pass
		-10	3.80	6.508	0.0034	-2.5 to 2.5	Pass
		0	3.80	3.803	0.0020	-2.5 to 2.5	Pass
		10	3.80	0.071	0.0000	-2.5 to 2.5	Pass
		30	3.80	5.734	0.0030	-2.5 to 2.5	Pass
		40	3.80	6.401	0.0034	-2.5 to 2.5	Pass
		50	3.80	7.025	0.0037	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.23	15.906	0.0086	-2.5 to 2.5	Pass
			3.80	17.758	0.0096	-2.5 to 2.5	Pass
			4.37	17.224	0.0093	-2.5 to 2.5	Pass
		-30	3.80	15.790	0.0085	-2.5 to 2.5	Pass
		-20	3.80	16.282	0.0088	-2.5 to 2.5	Pass
		-10	3.80	16.404	0.0089	-2.5 to 2.5	Pass
		0	3.80	15.632	0.0084	-2.5 to 2.5	Pass
		10	3.80	16.563	0.0090	-2.5 to 2.5	Pass
		30	3.80	16.907	0.0091	-2.5 to 2.5	Pass
		40	3.80	15.655	0.0085	-2.5 to 2.5	Pass
		50	3.80	16.250	0.0088	-2.5 to 2.5	Pass
	1880	20	3.23	16.248	0.0086	-2.5 to 2.5	Pass
			3.80	17.756	0.0094	-2.5 to 2.5	Pass
			4.37	16.799	0.0089	-2.5 to 2.5	Pass
		-30	3.80	18.675	0.0099	-2.5 to 2.5	Pass
		-20	3.80	16.480	0.0088	-2.5 to 2.5	Pass
		-10	3.80	18.123	0.0096	-2.5 to 2.5	Pass
		0	3.80	16.485	0.0088	-2.5 to 2.5	Pass
		10	3.80	16.274	0.0087	-2.5 to 2.5	Pass
		30	3.80	15.542	0.0083	-2.5 to 2.5	Pass
		40	3.80	17.494	0.0093	-2.5 to 2.5	Pass
		50	3.80	17.556	0.0093	-2.5 to 2.5	Pass
	1909.8	20	3.23	14.741	0.0077	-2.5 to 2.5	Pass
			3.80	15.484	0.0081	-2.5 to 2.5	Pass
			4.37	15.702	0.0082	-2.5 to 2.5	Pass
		-30	3.80	14.940	0.0078	-2.5 to 2.5	Pass
		-20	3.80	14.751	0.0077	-2.5 to 2.5	Pass
		-10	3.80	15.367	0.0080	-2.5 to 2.5	Pass
		0	3.80	15.129	0.0079	-2.5 to 2.5	Pass
		10	3.80	15.684	0.0082	-2.5 to 2.5	Pass
		30	3.80	17.458	0.0091	-2.5 to 2.5	Pass
		40	3.80	16.808	0.0088	-2.5 to 2.5	Pass
		50	3.80	14.461	0.0076	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.23	15.272	0.0083	-2.5 to 2.5	Pass

			3.80	16.059	0.0087	-2.5 to 2.5	Pass
			4.37	13.654	0.0074	-2.5 to 2.5	Pass
		-30	3.80	17.707	0.0096	-2.5 to 2.5	Pass
		-20	3.80	17.131	0.0093	-2.5 to 2.5	Pass
		-10	3.80	17.498	0.0095	-2.5 to 2.5	Pass
		0	3.80	16.177	0.0087	-2.5 to 2.5	Pass
		10	3.80	15.516	0.0084	-2.5 to 2.5	Pass
		30	3.80	15.246	0.0082	-2.5 to 2.5	Pass
		40	3.80	16.251	0.0088	-2.5 to 2.5	Pass
		50	3.80	17.425	0.0094	-2.5 to 2.5	Pass
	1880	20	3.23	19.242	0.0102	-2.5 to 2.5	Pass
			3.80	19.443	0.0103	-2.5 to 2.5	Pass
			4.37	18.855	0.0100	-2.5 to 2.5	Pass
		-30	3.80	16.215	0.0086	-2.5 to 2.5	Pass
		-20	3.80	17.501	0.0093	-2.5 to 2.5	Pass
		-10	3.80	19.038	0.0101	-2.5 to 2.5	Pass
		0	3.80	17.223	0.0092	-2.5 to 2.5	Pass
		10	3.80	16.815	0.0089	-2.5 to 2.5	Pass
		30	3.80	18.712	0.0100	-2.5 to 2.5	Pass
		40	3.80	17.174	0.0091	-2.5 to 2.5	Pass
		50	3.80	17.714	0.0094	-2.5 to 2.5	Pass
	1909.8	20	3.23	16.178	0.0085	-2.5 to 2.5	Pass
			3.80	17.957	0.0094	-2.5 to 2.5	Pass
			4.37	15.584	0.0082	-2.5 to 2.5	Pass
		-30	3.80	15.682	0.0082	-2.5 to 2.5	Pass
		-20	3.80	17.409	0.0091	-2.5 to 2.5	Pass
		-10	3.80	16.347	0.0086	-2.5 to 2.5	Pass
		0	3.80	17.581	0.0092	-2.5 to 2.5	Pass
		10	3.80	15.525	0.0081	-2.5 to 2.5	Pass
		30	3.80	17.256	0.0090	-2.5 to 2.5	Pass
		40	3.80	17.540	0.0092	-2.5 to 2.5	Pass
		50	3.80	17.177	0.0090	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

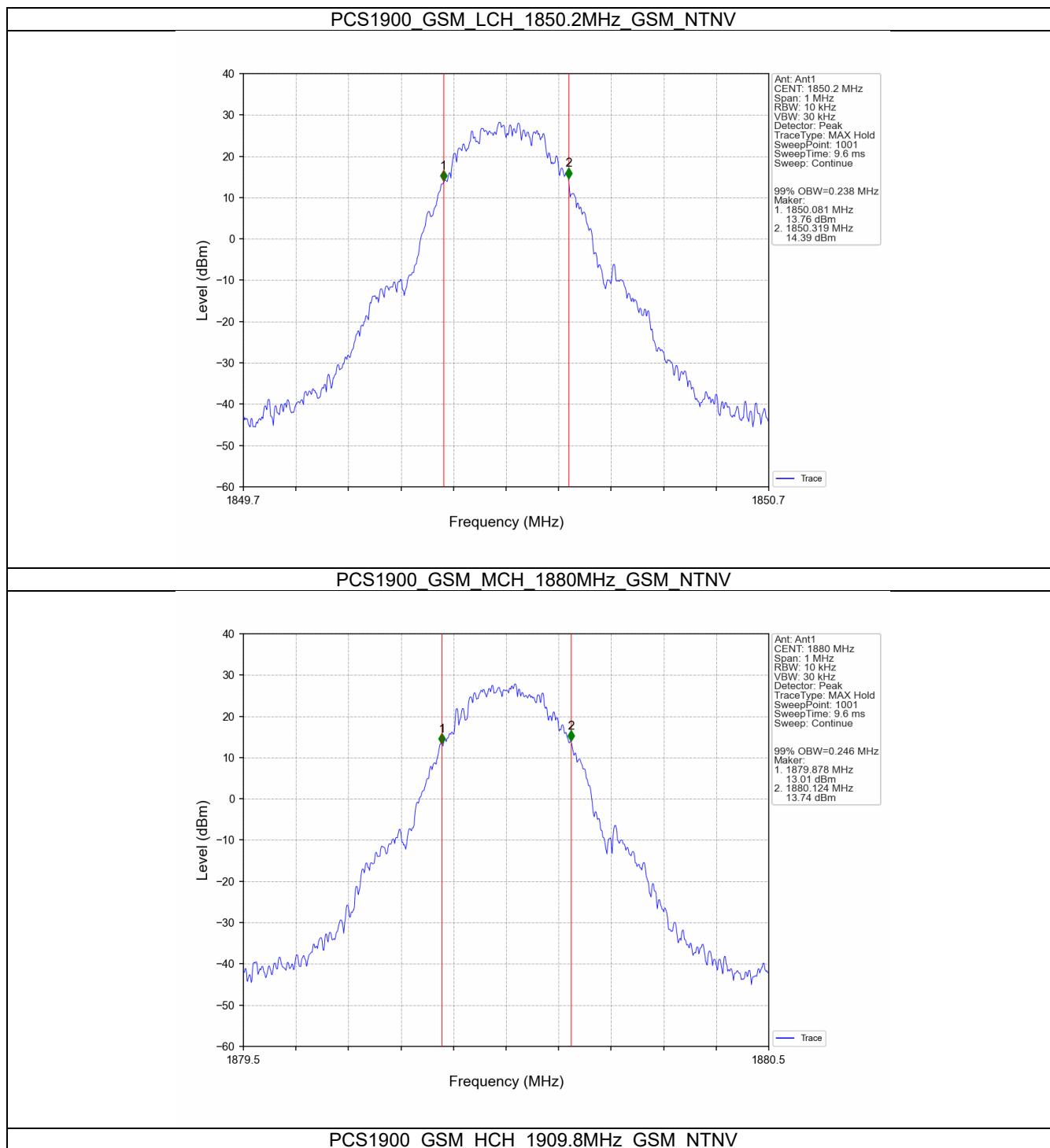
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.238	/	Pass
			1880	0.246	/	Pass
			1909.8	0.247	/	Pass
	GPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.246	/	Pass
			1909.8	0.244	/	Pass
	EGPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.249	/	Pass
			1909.8	0.252	/	Pass

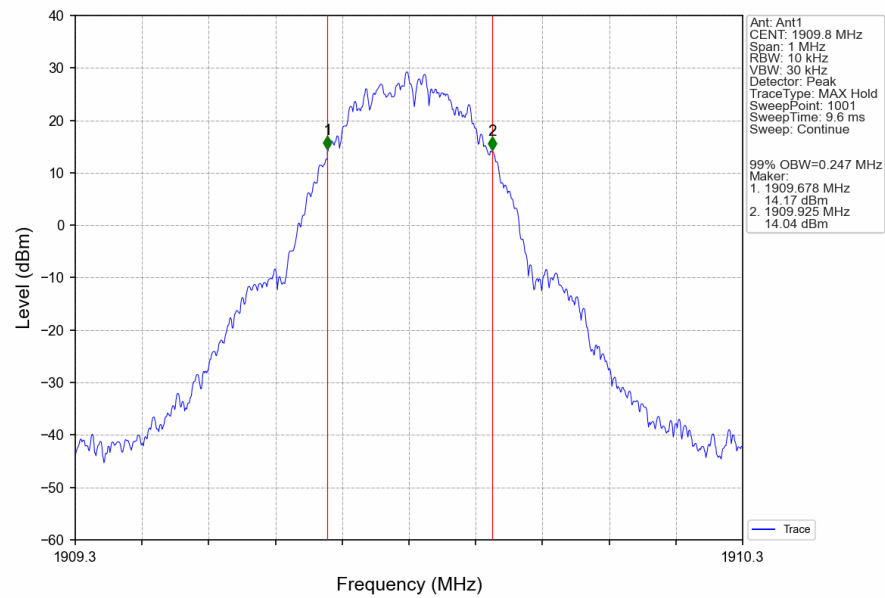
3.1.2 PCS1900_XDB

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.319	/	Pass
			1880	0.320	/	Pass
			1909.8	0.315	/	Pass
	GPRS	1 TX Slot	1850.2	0.313	/	Pass
			1880	0.310	/	Pass
			1909.8	0.312	/	Pass
	EGPRS	1 TX Slot	1850.2	0.314	/	Pass
			1880	0.309	/	Pass
			1909.8	0.317	/	Pass

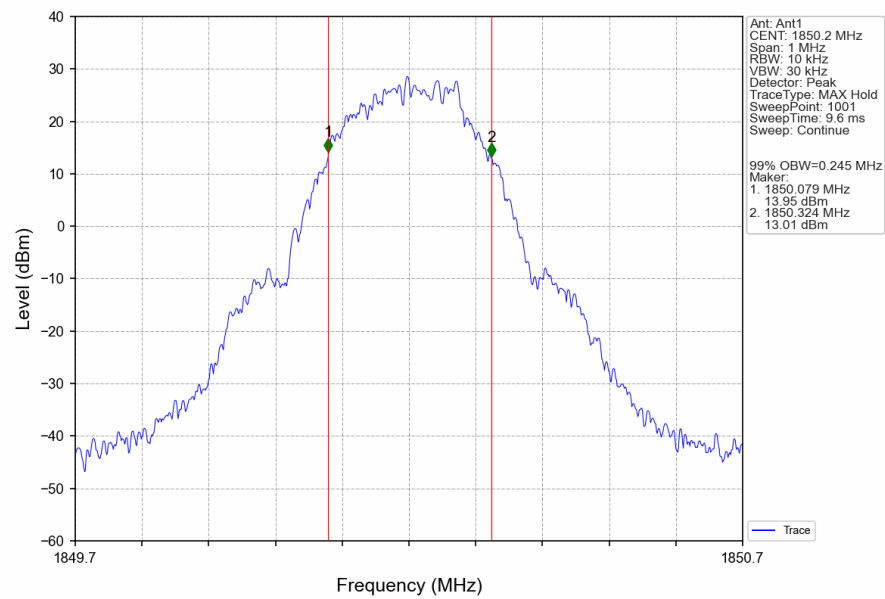
3.2 Test Graph

3.2.1 PCS1900_OBW

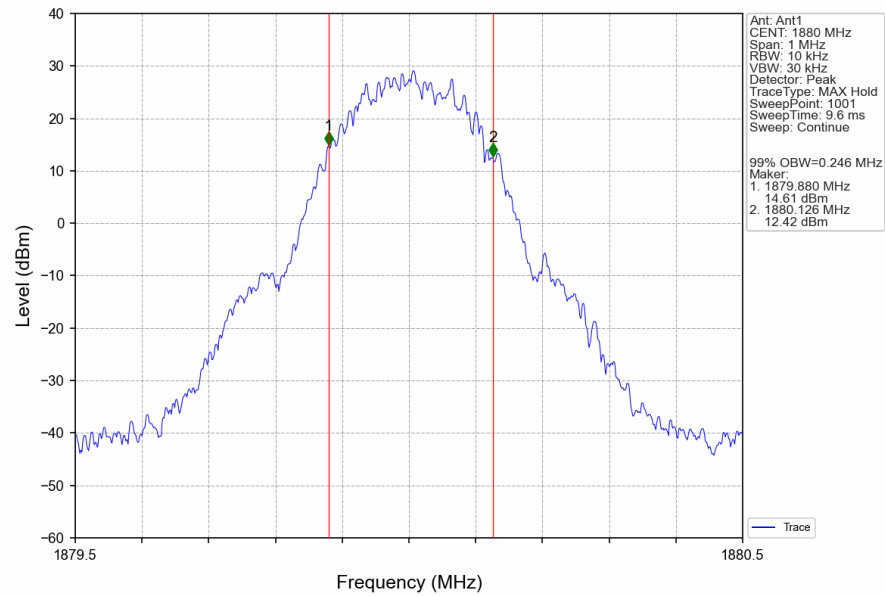




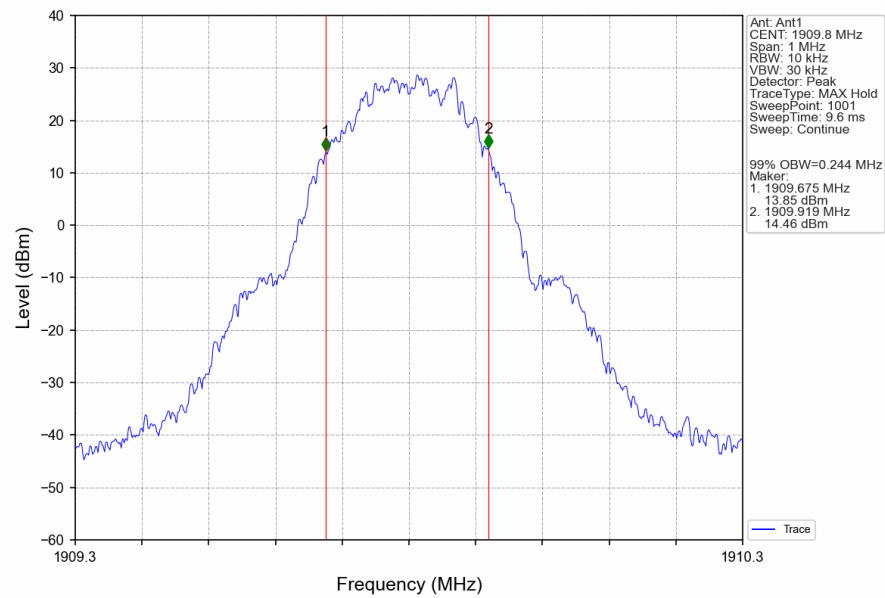
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



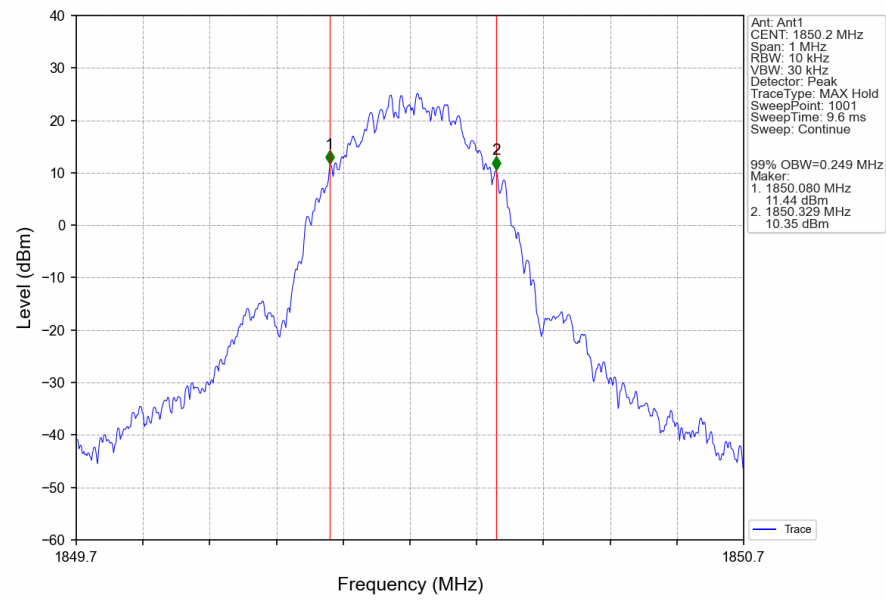
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



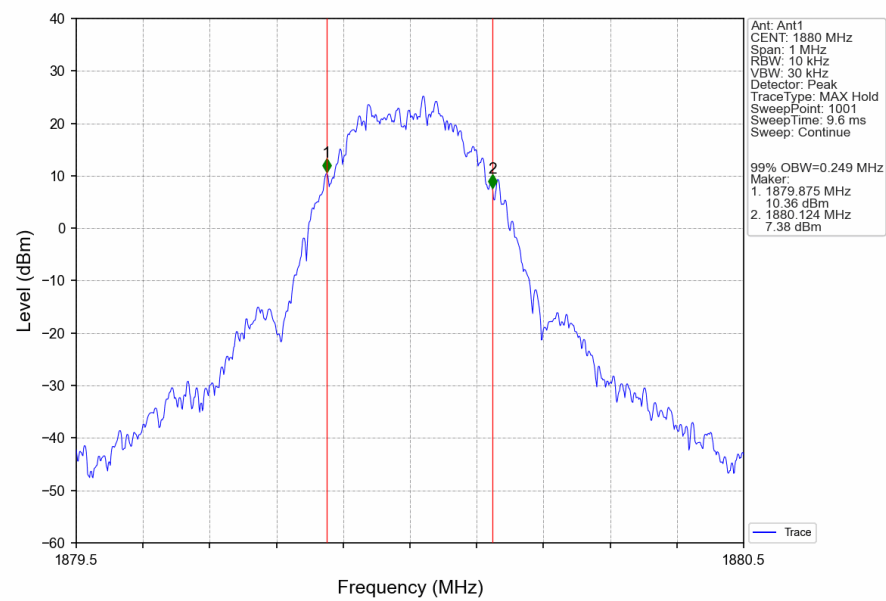
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



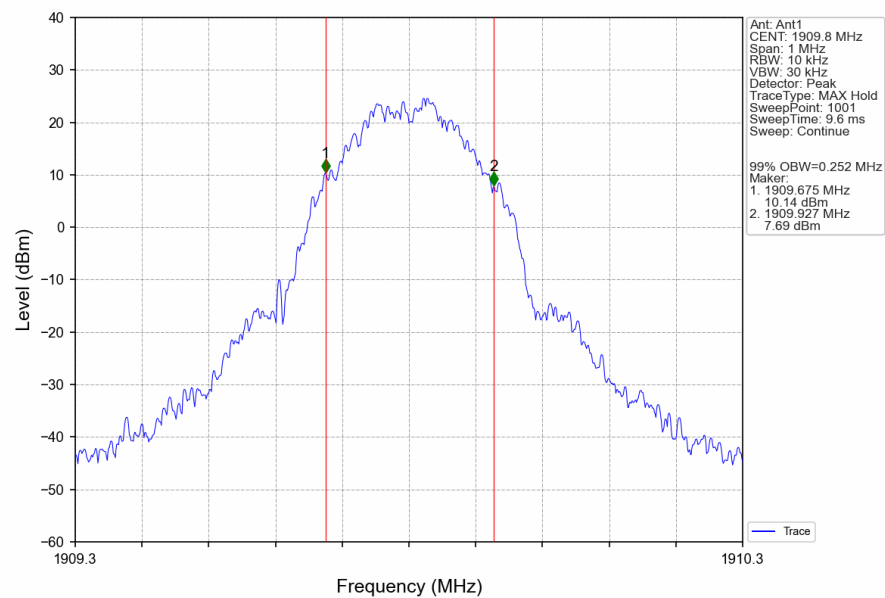
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



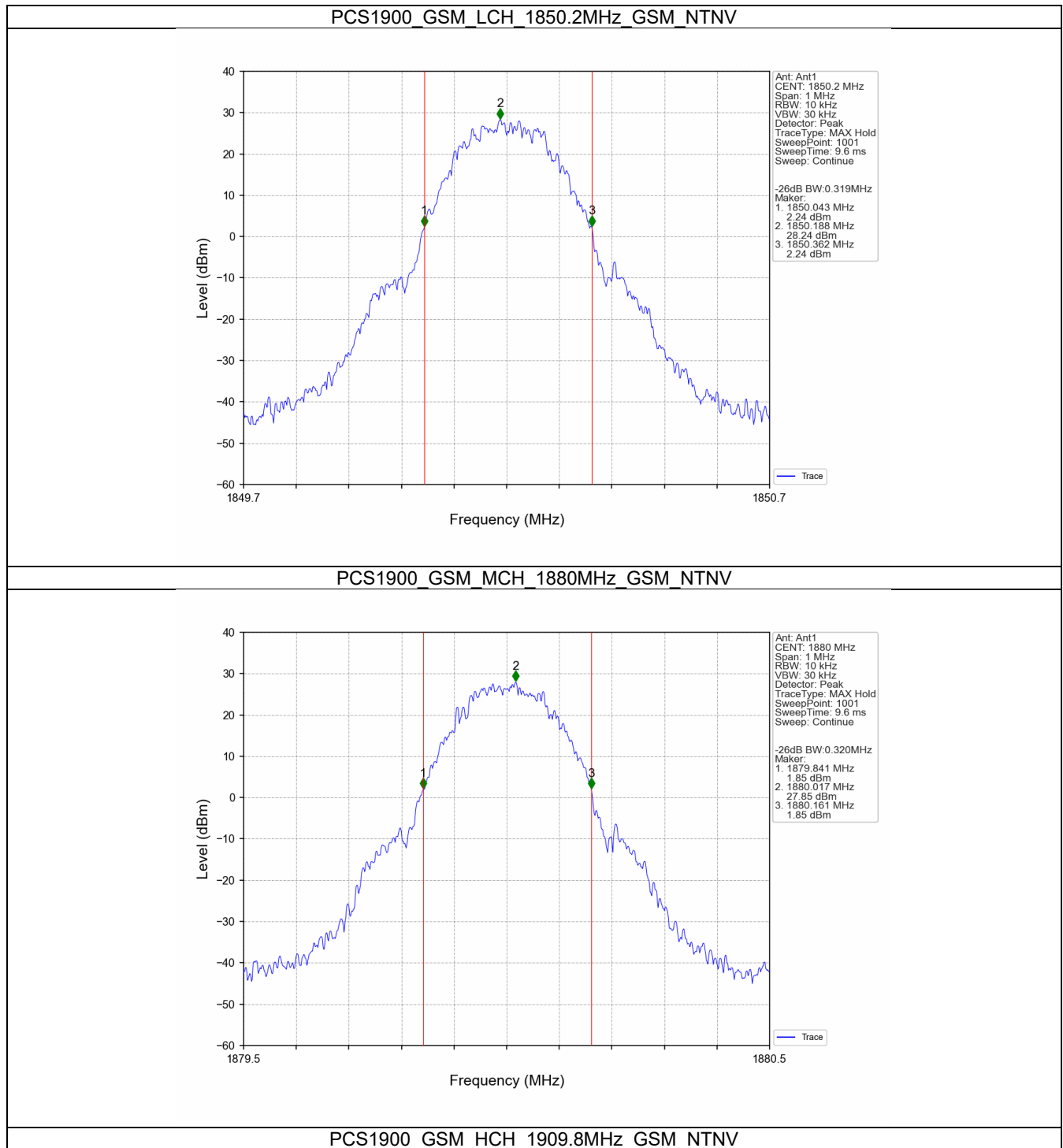
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot NTNv

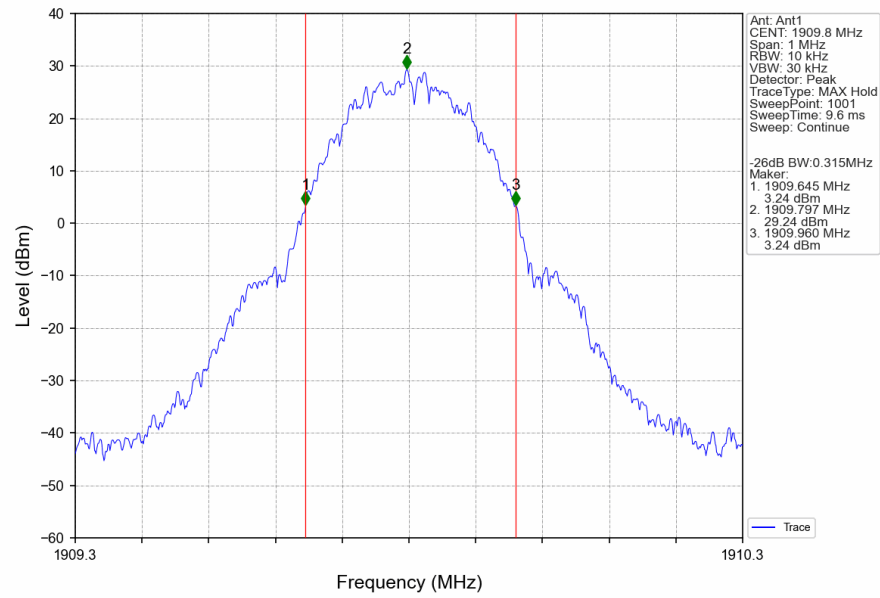


PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV

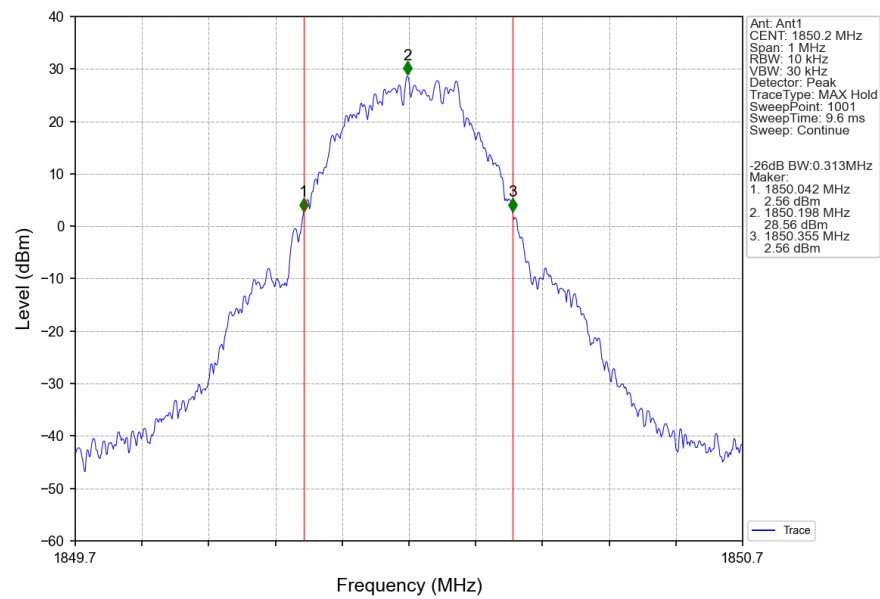


3.2.2 PCS1900_XDB

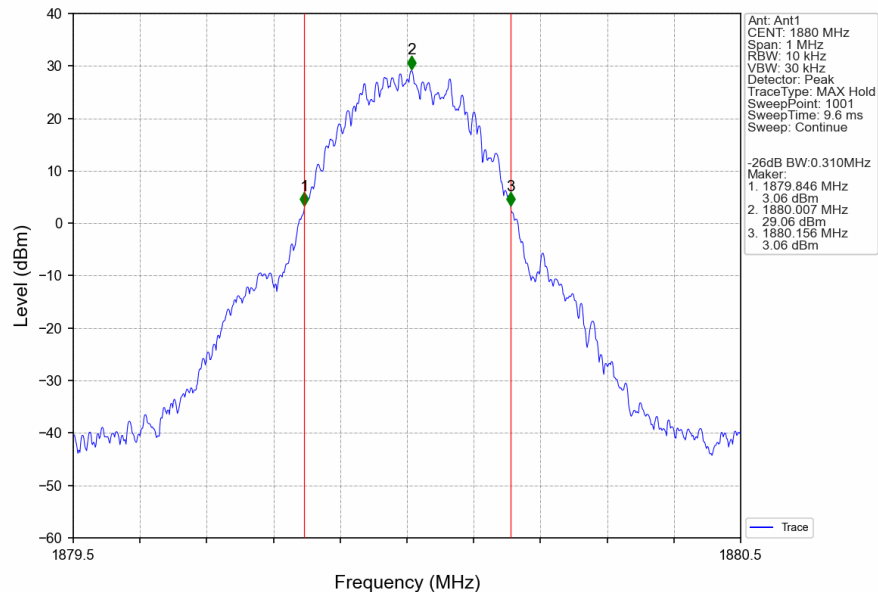




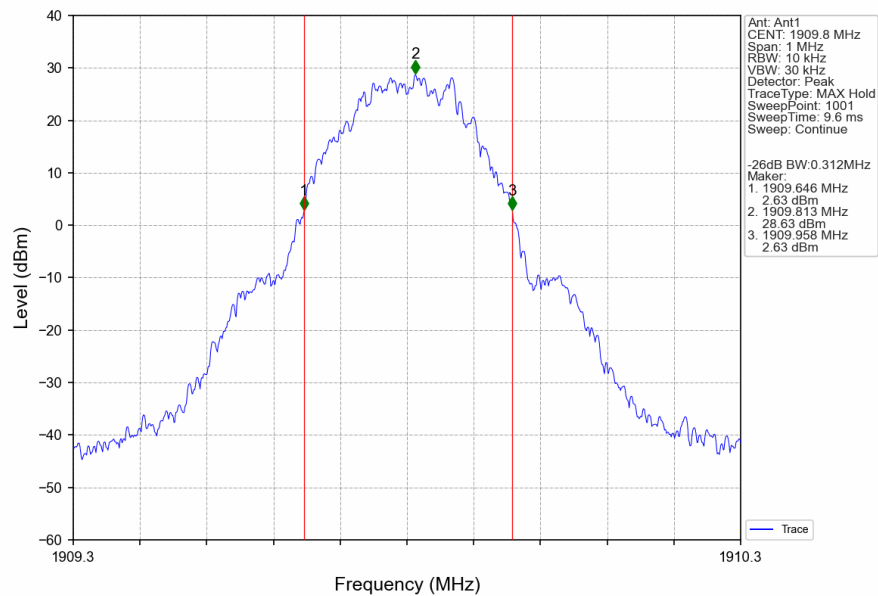
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



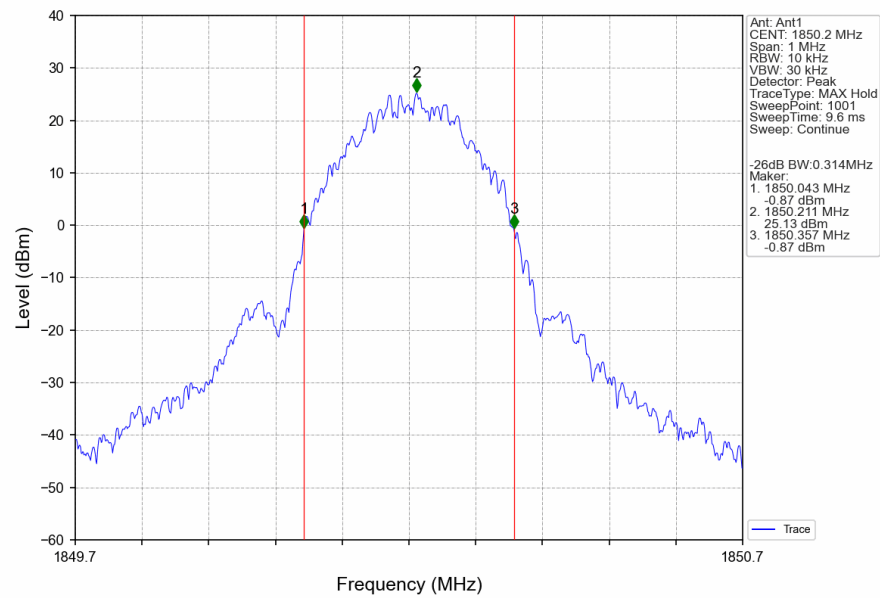
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



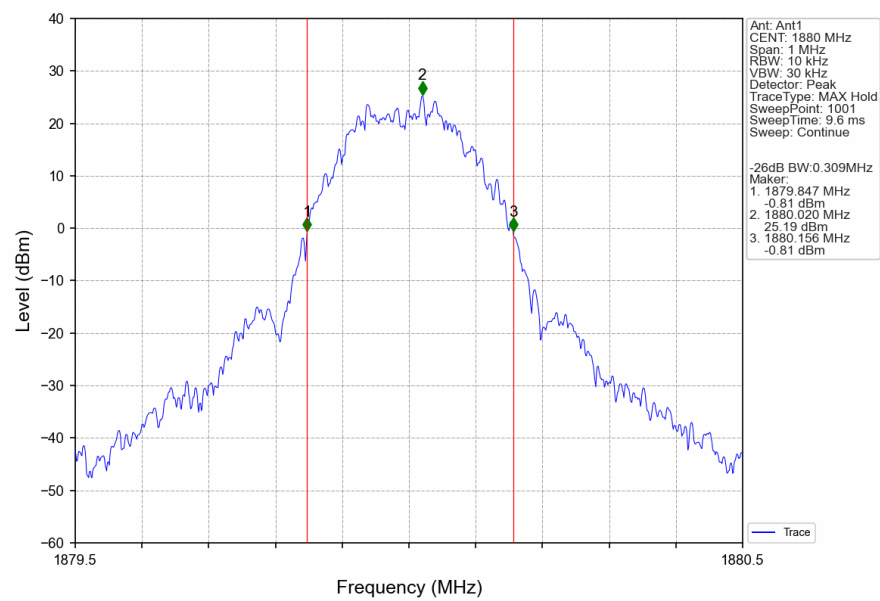
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



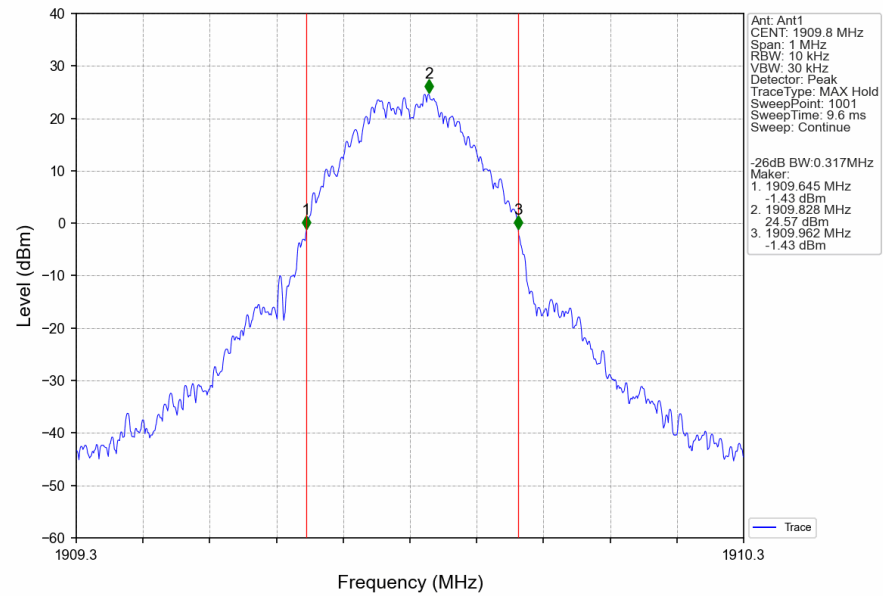
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

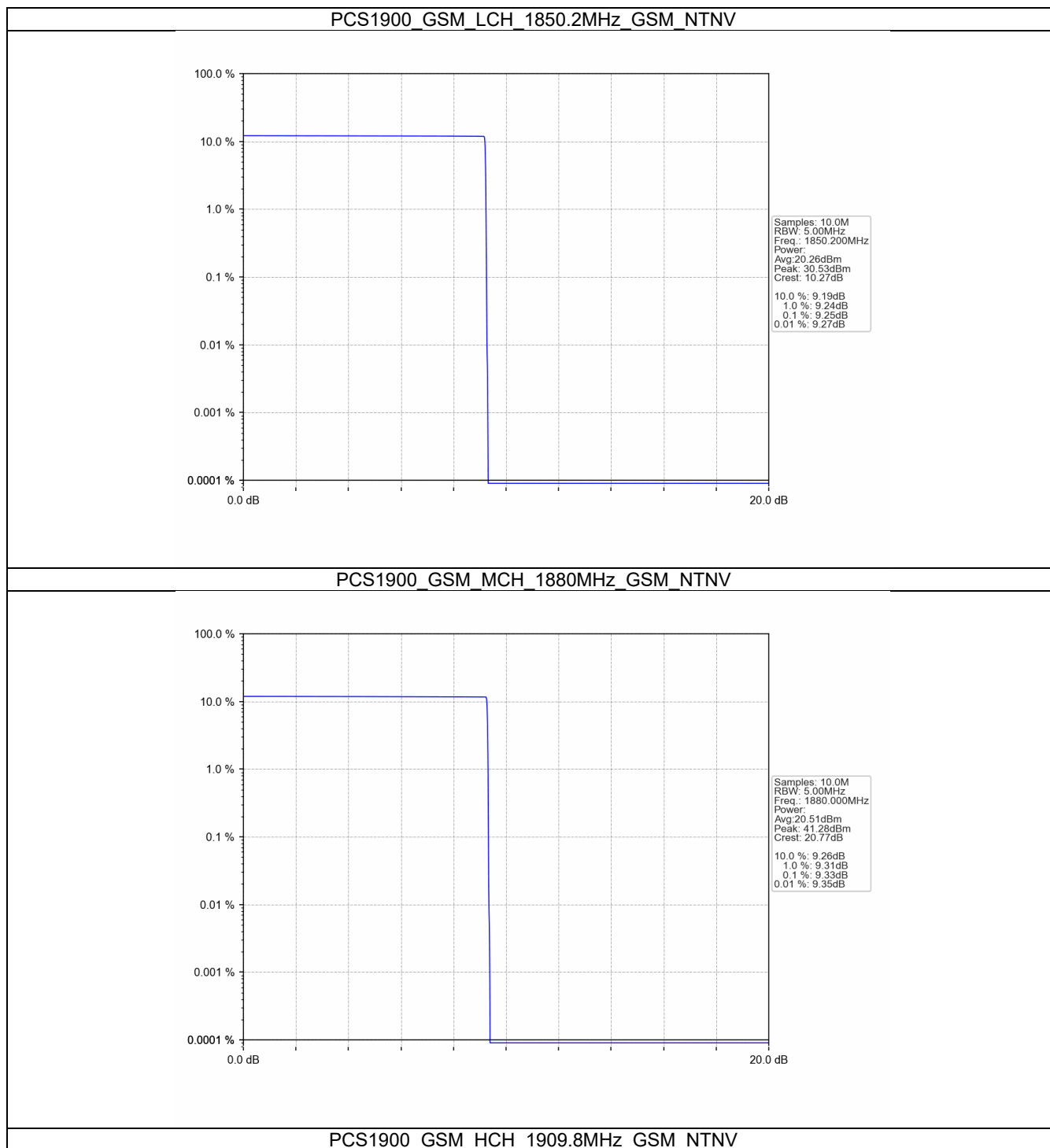
4.1 Test Result

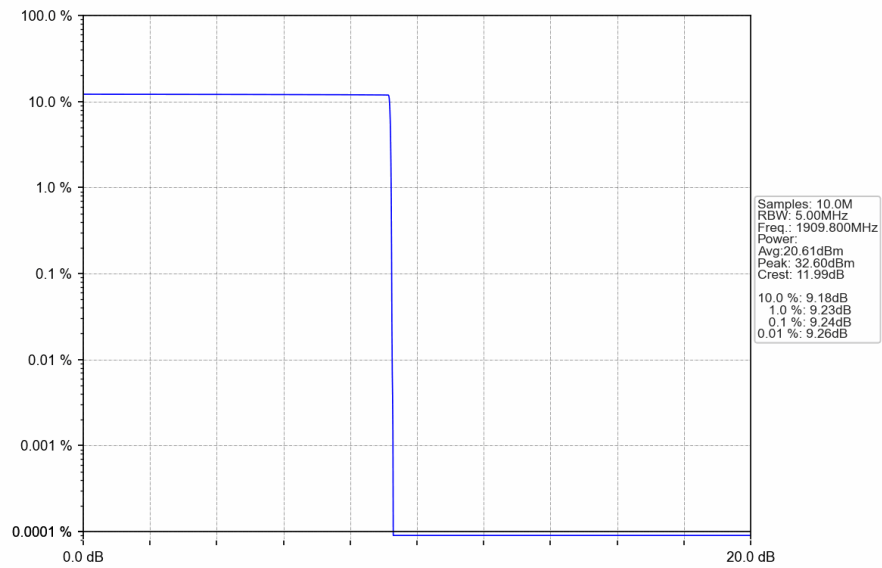
4.1.1 PCS1900

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.25	<=13	Pass
			1880	9.33	<=13	Pass
			1909.8	9.24	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.61	<=13	Pass
			1880	3.74	<=13	Pass
			1909.8	3.69	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.92	<=13	Pass
			1880	6.91	<=13	Pass
			1909.8	6.83	<=13	Pass

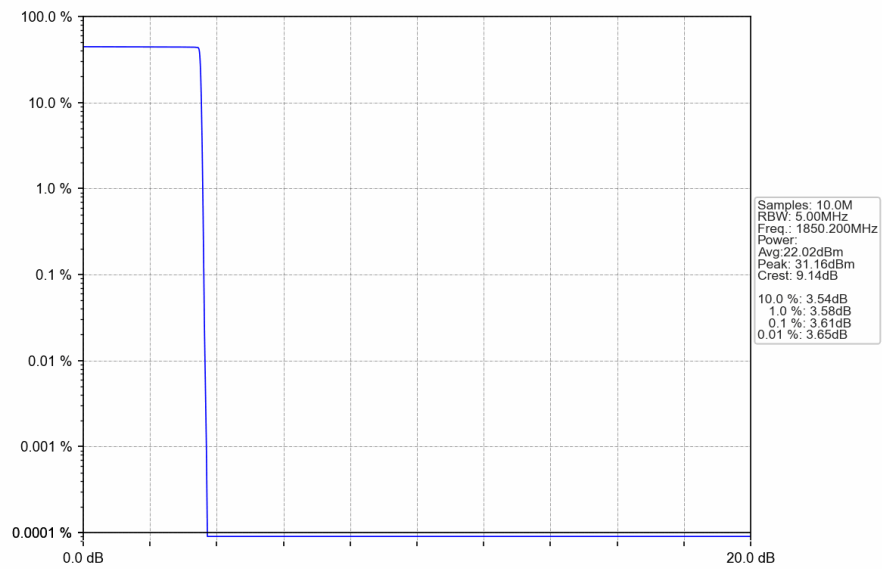
4.2 Test Graph

4.2.1 PCS1900

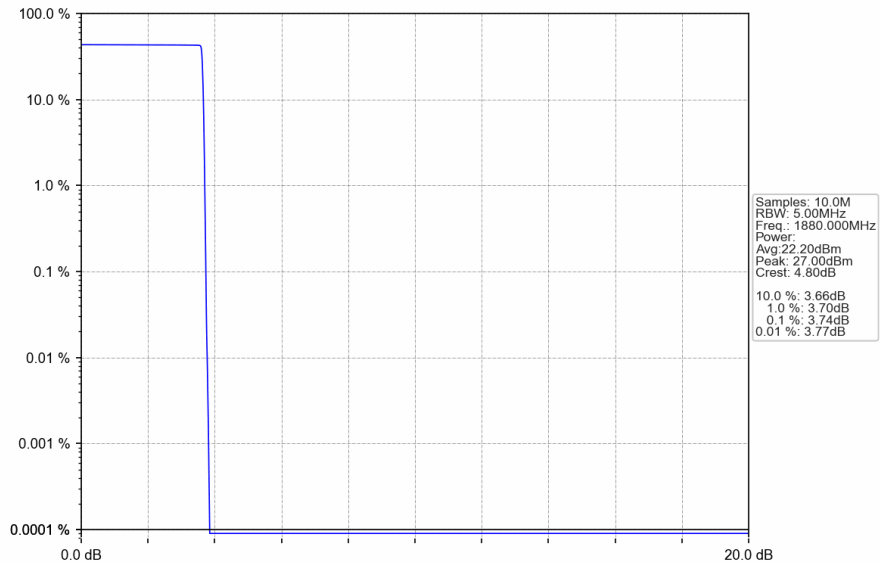




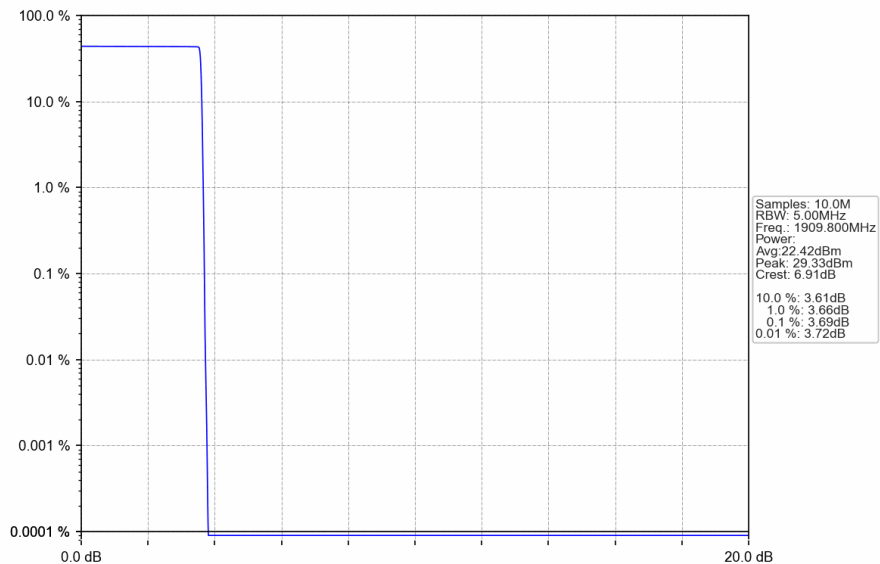
PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



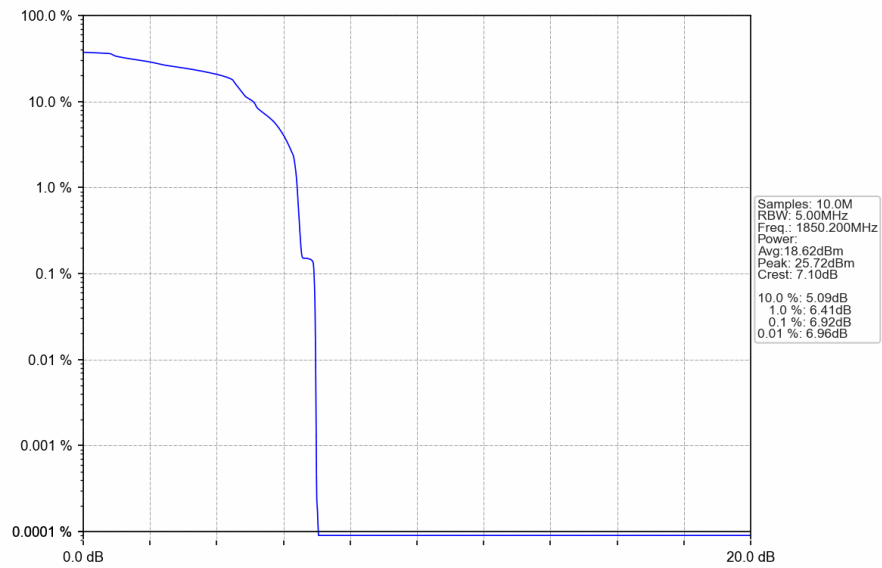
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



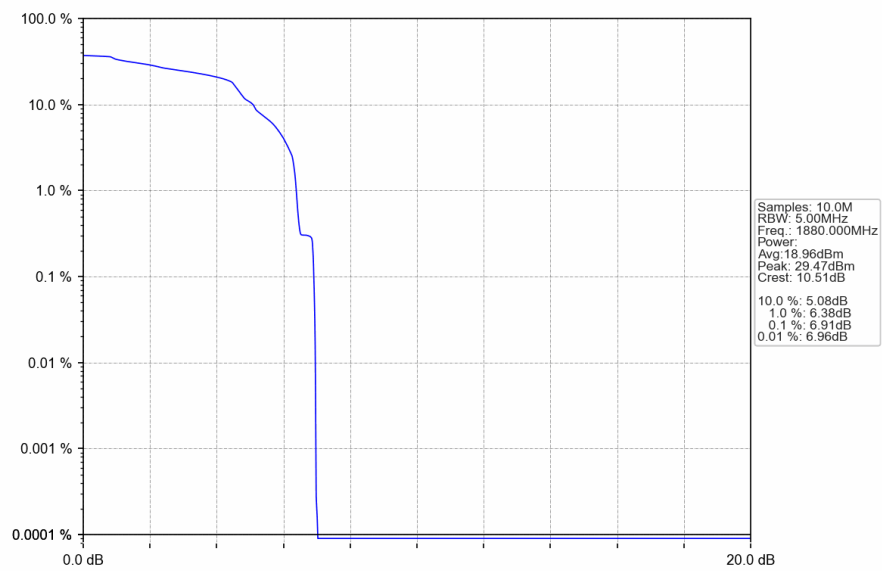
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



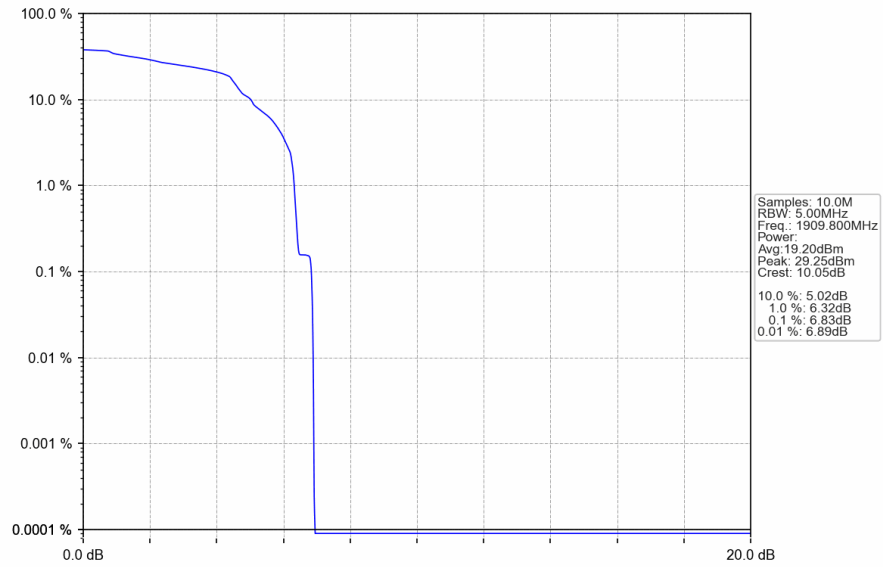
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTN



5. Spurious Emission

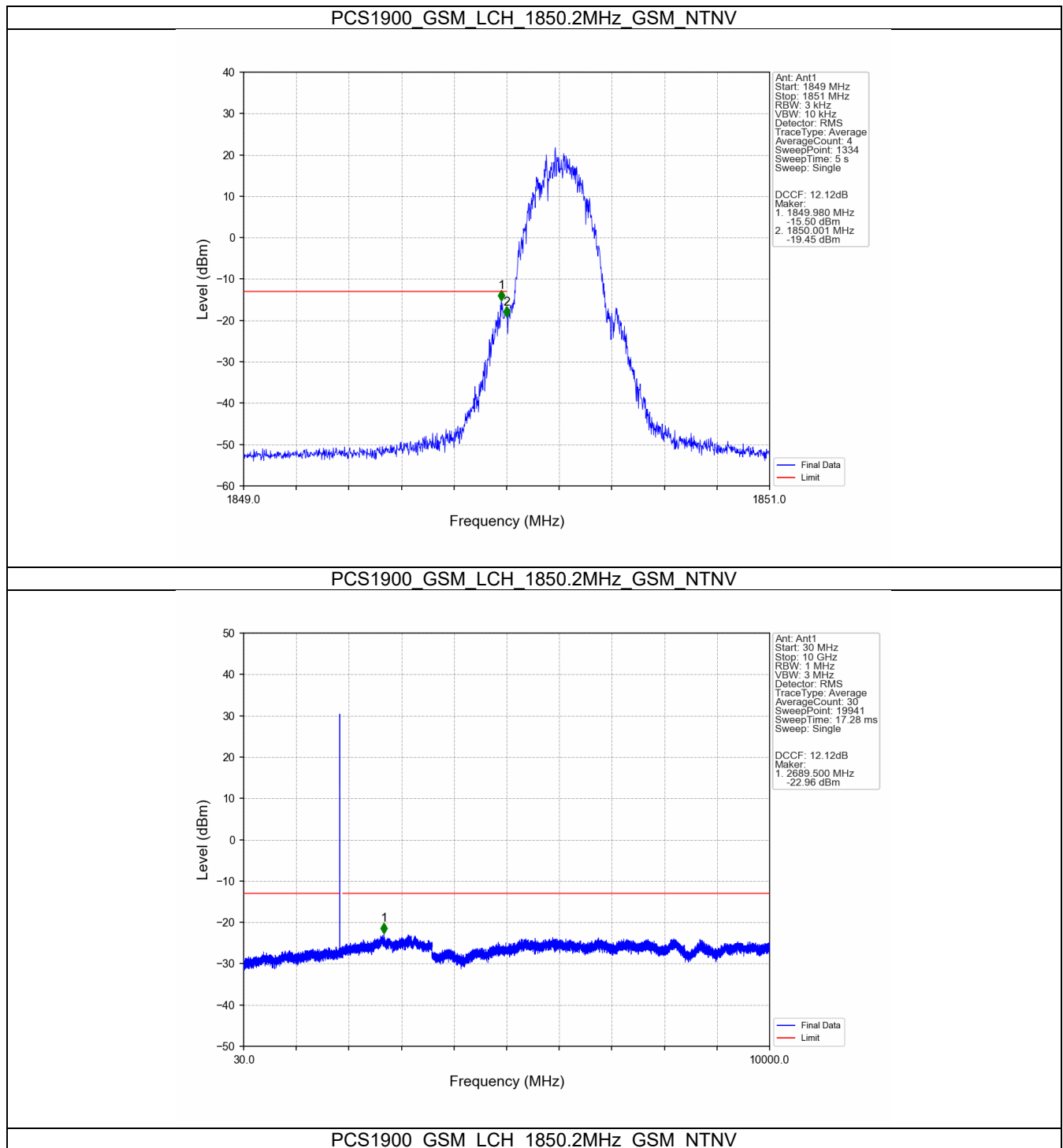
5.1 Test Result

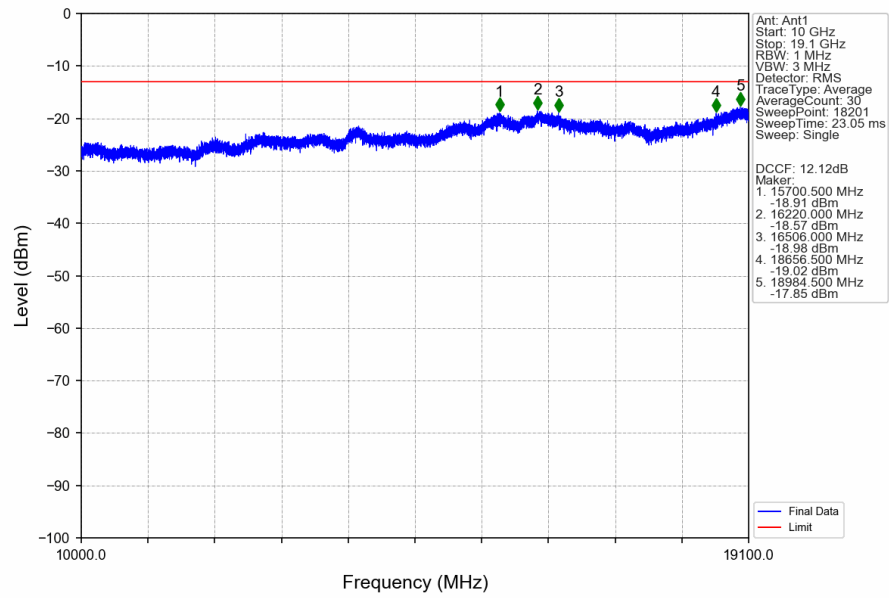
5.1.1 PCS1900

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

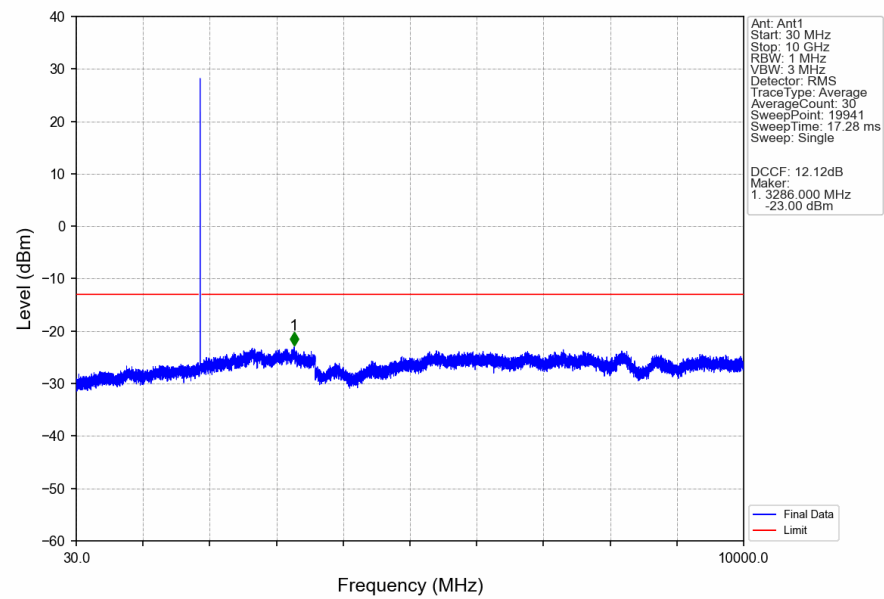
5.2 Test Graph

5.2.1 PCS1900

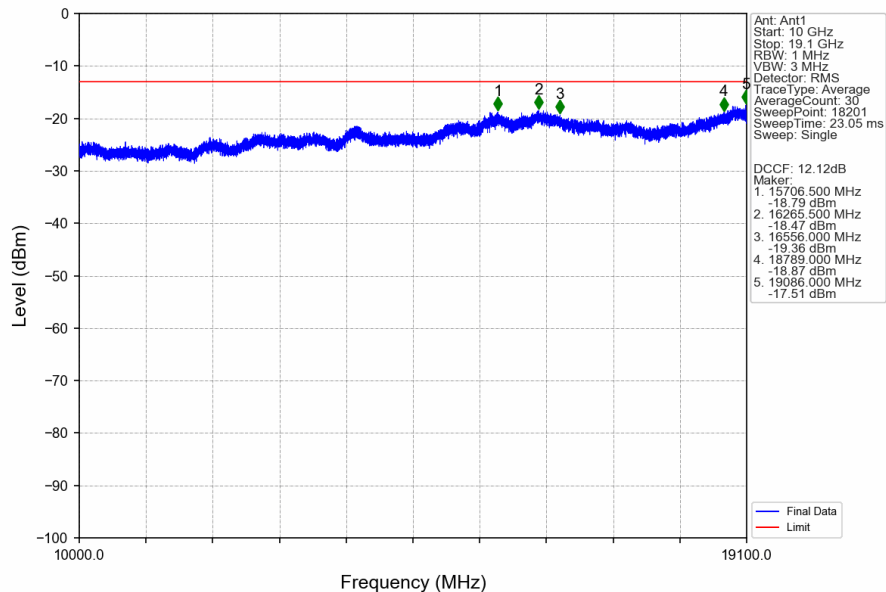




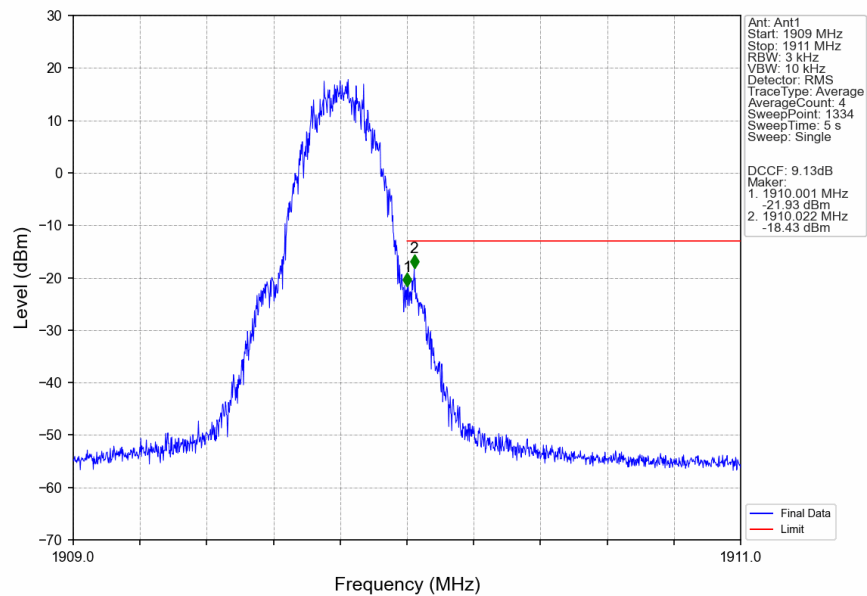
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



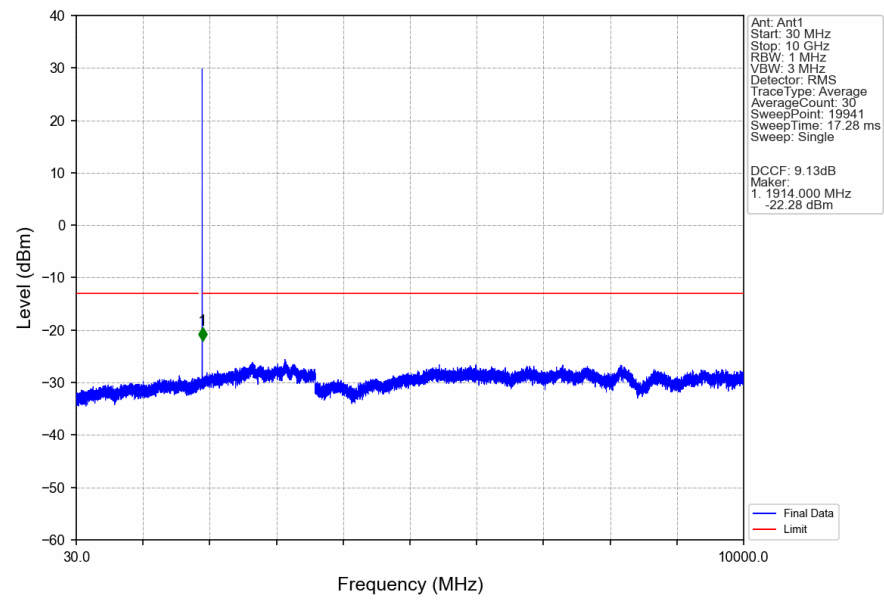
PCS1900 GSM MCH 1880MHz GSM NTN



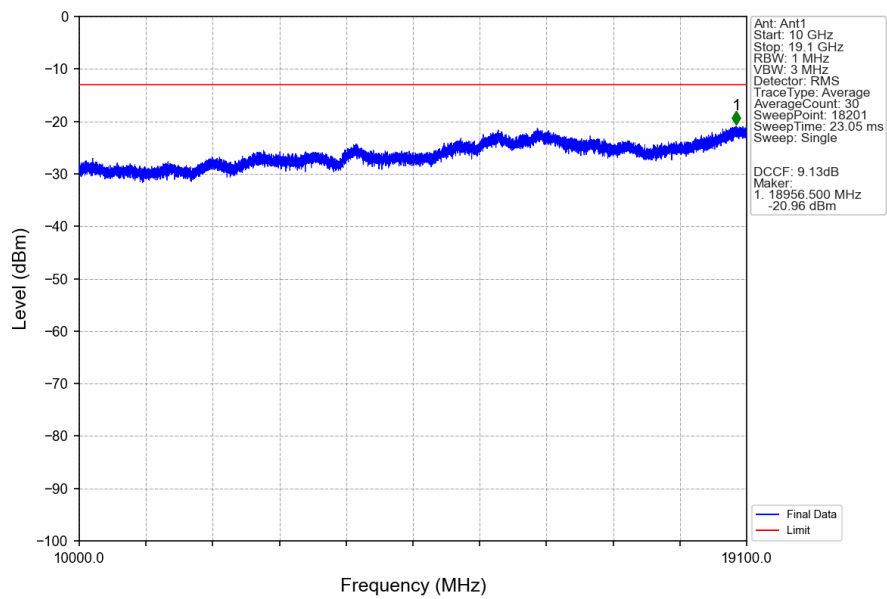
PCS1900 GSM HCH 1909.8MHz GSM NTN



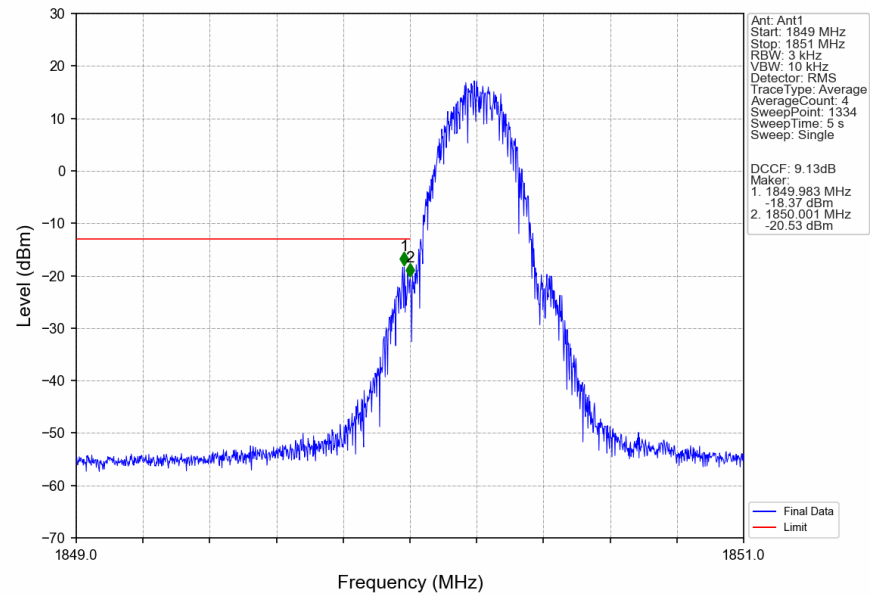
PCS1900 GSM HCH 1909.8MHz GSM NTN



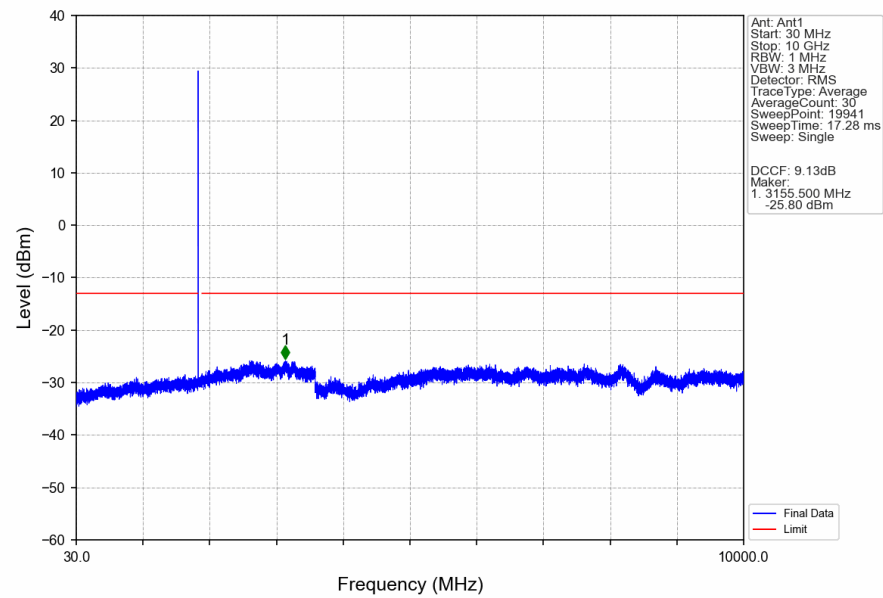
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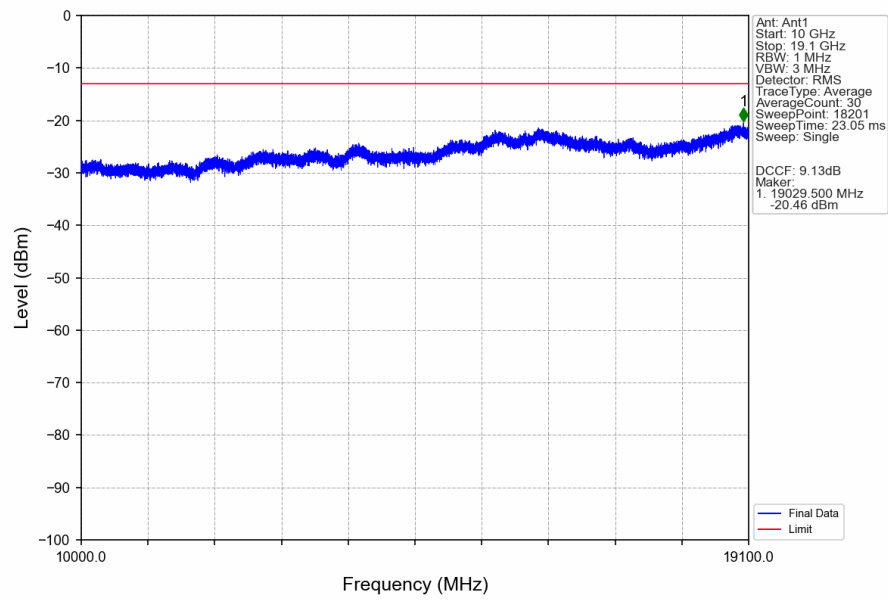
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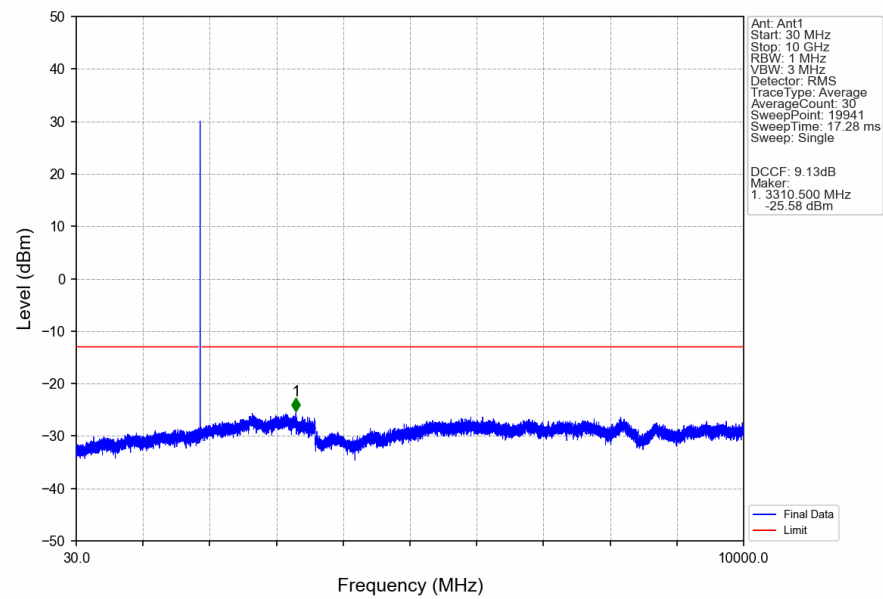
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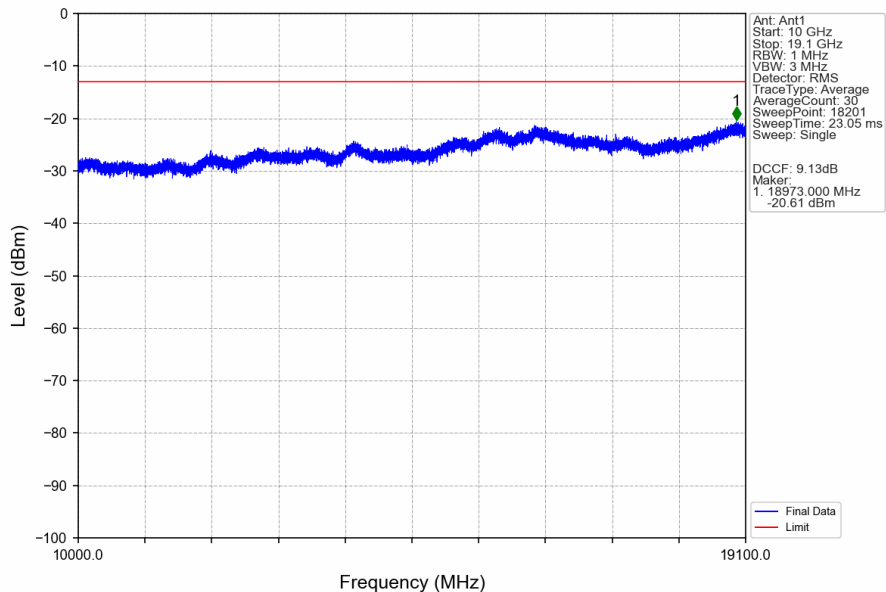
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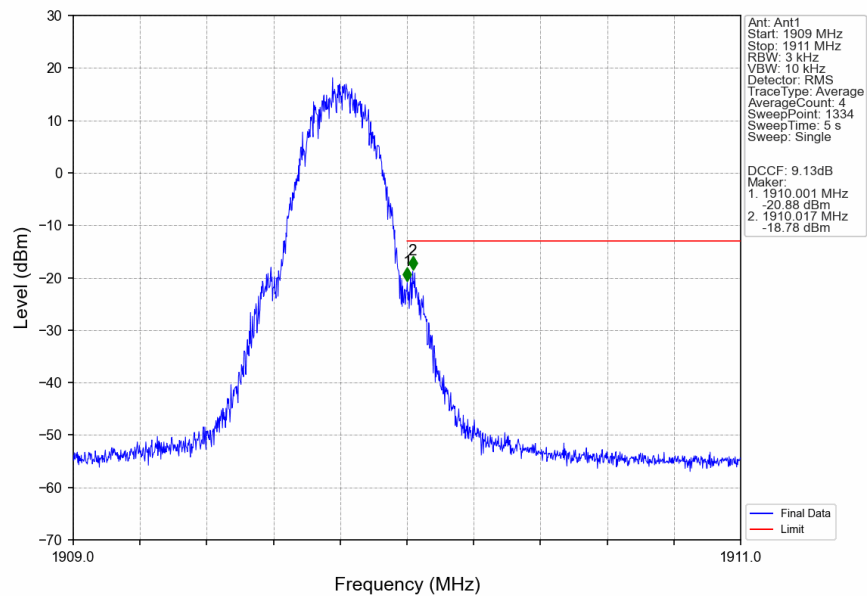
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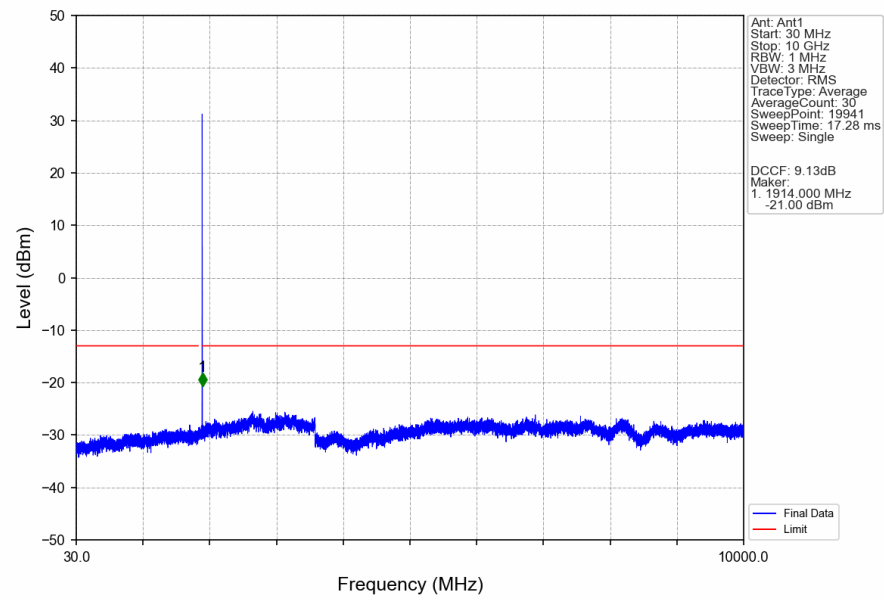
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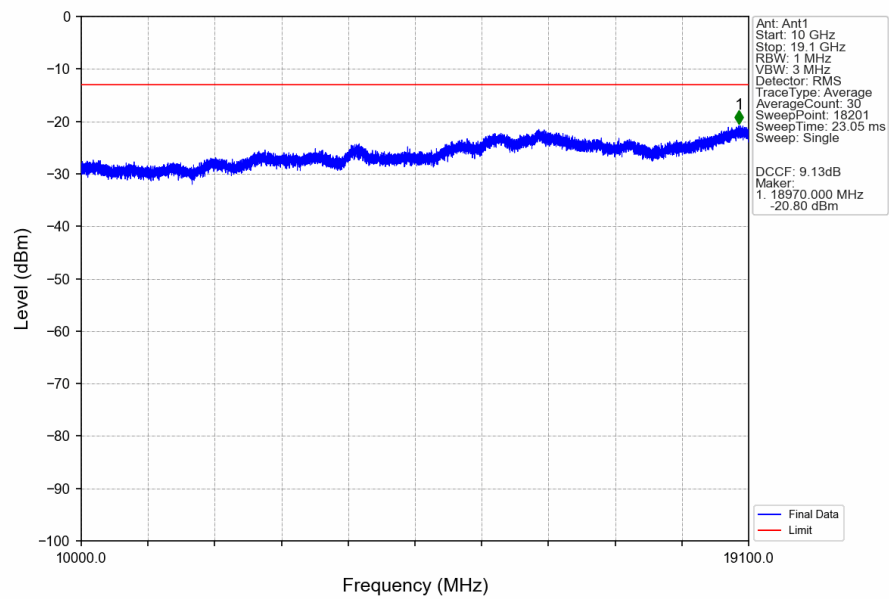
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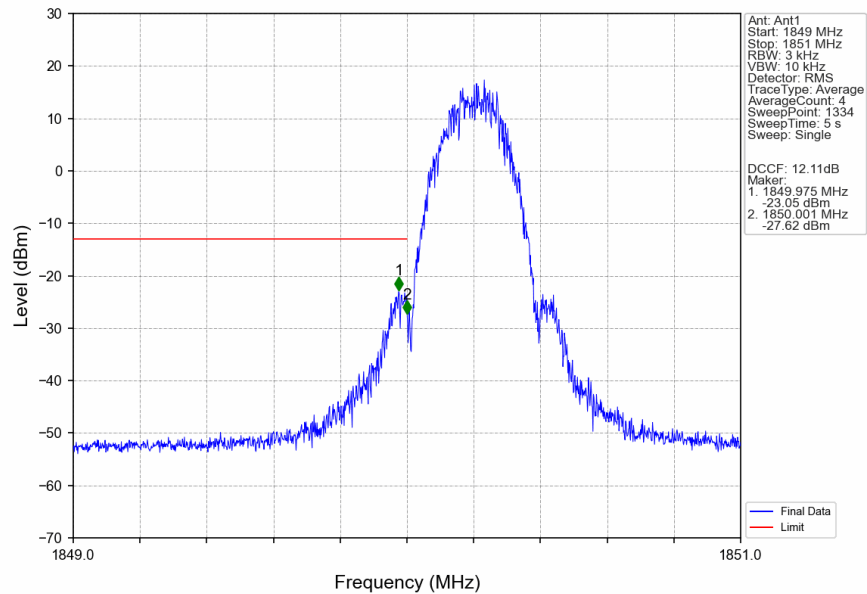
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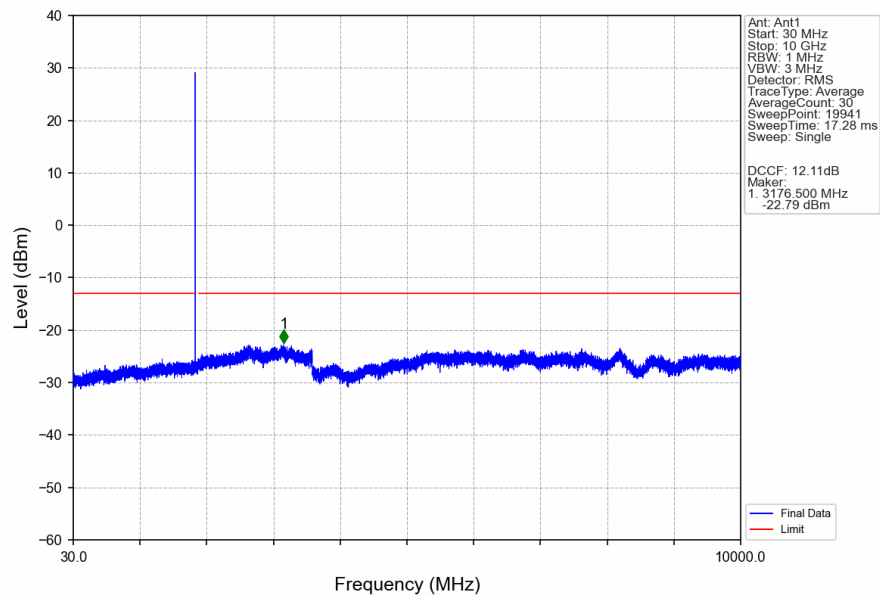
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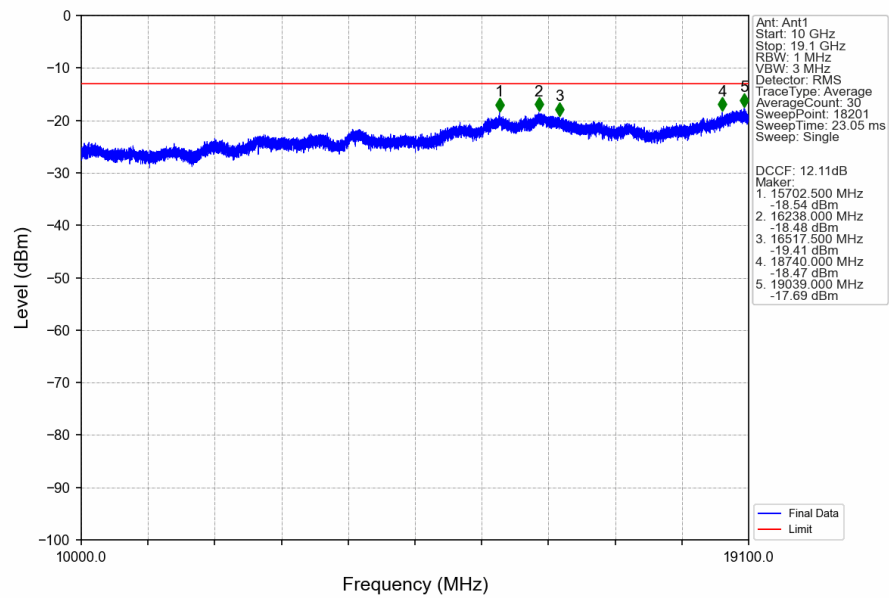
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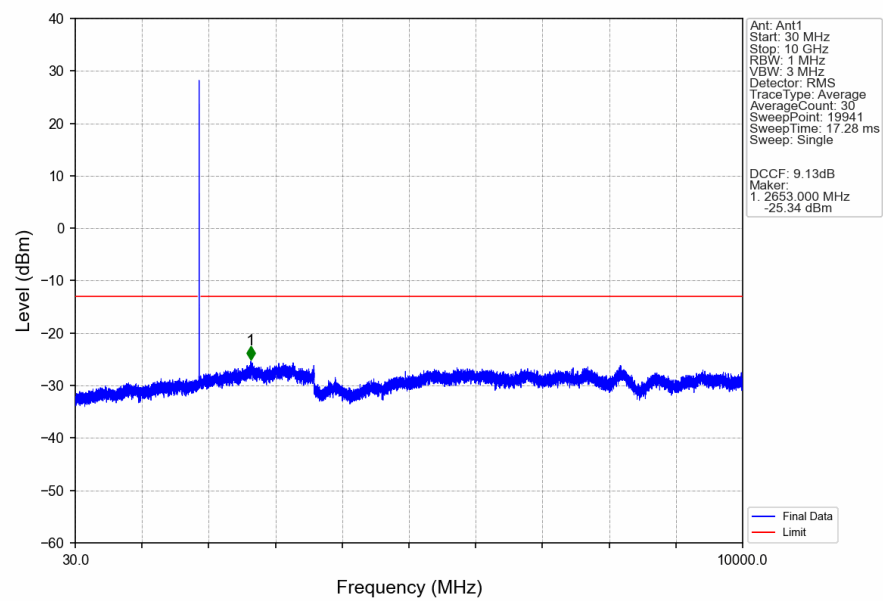
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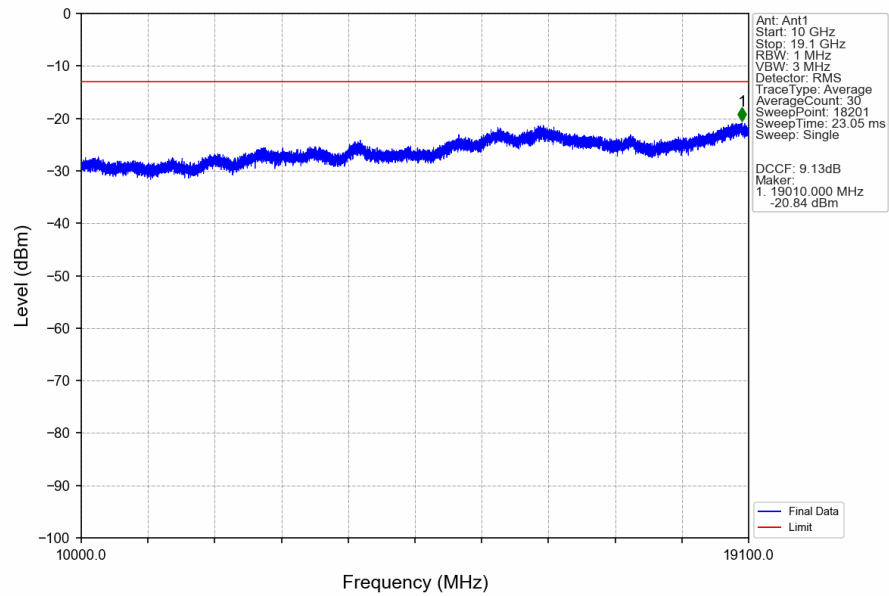
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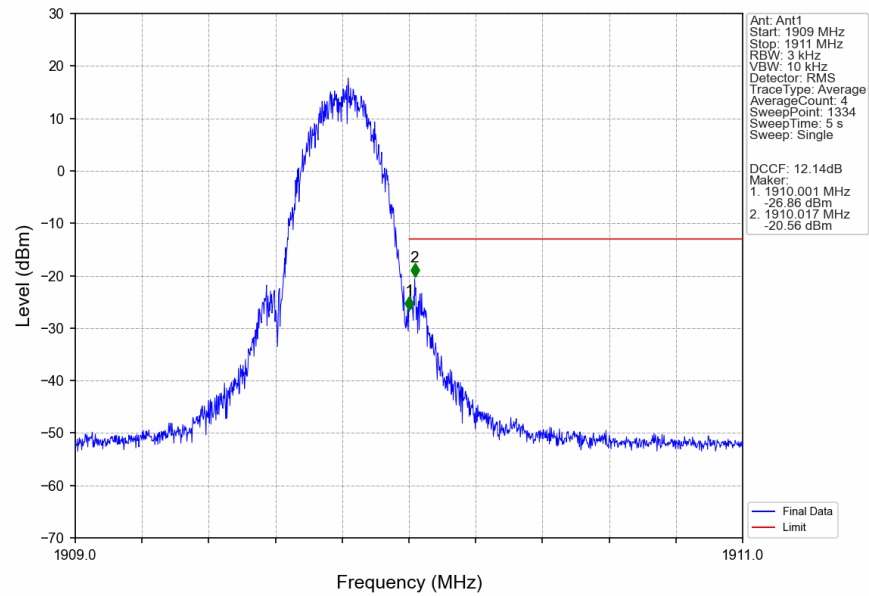
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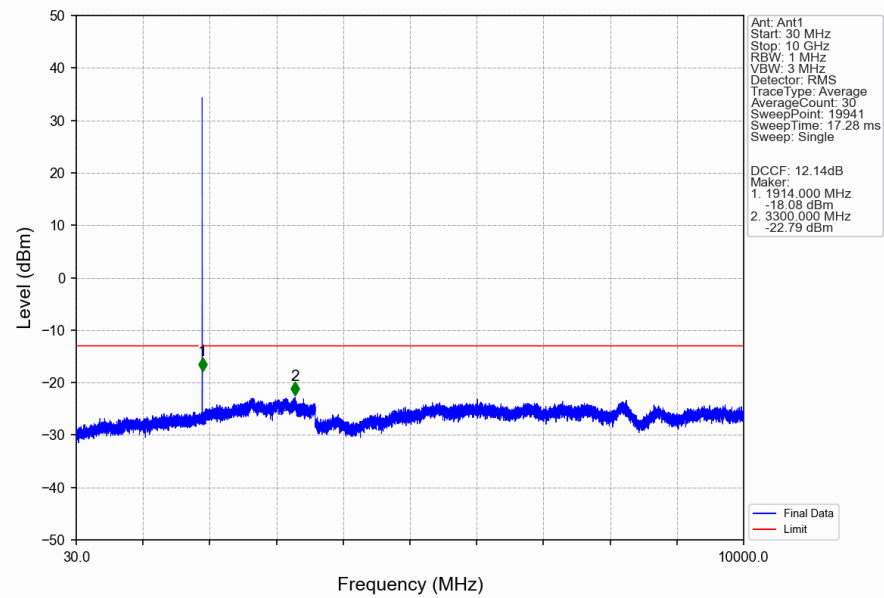
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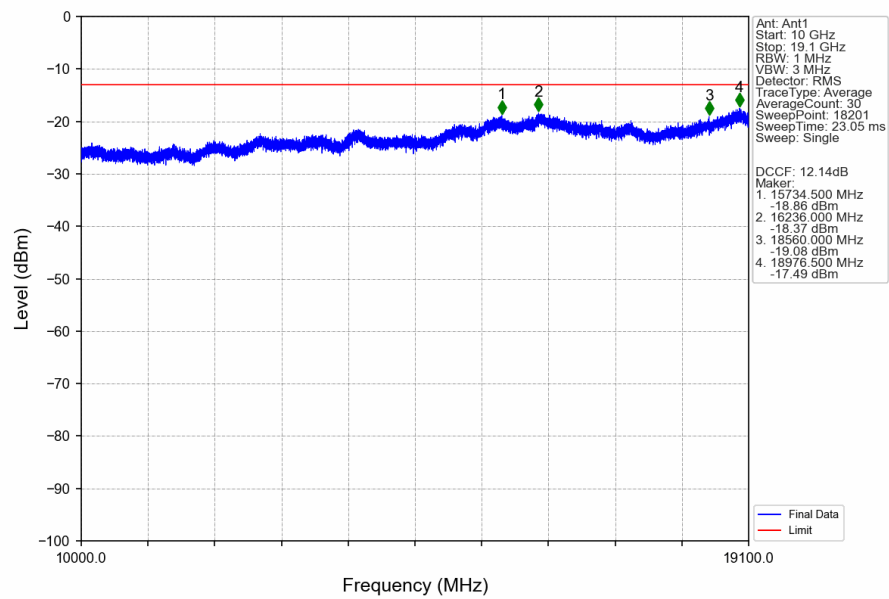
PCS1900_EGPRS_HCH_1909.8MHz_1_TX_Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1_TX_Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



---End of Attachment---