

## Appendix F for KSCR2205000668AT-FCC-GSM-1900

## 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 PCS1900\_EIRP

## 1.1.1 Test Result

ENV	Band: PCS1900						Verdict	
	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	29.35	-0.56	28.79	<=33.01	Pass
			1880	29.57	-0.56	29.01	<=33.01	Pass
			1909.8	28.99	-0.56	28.43	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	29.36	-0.56	28.80	<=33.01	Pass
		2 TX Slots	1850.2	28.63	-0.56	28.07	<=33.01	Pass
		3 TX Slots	1850.2	26.90	-0.56	26.34	<=33.01	Pass
		4 TX Slots	1850.2	25.82	-0.56	25.26	<=33.01	Pass
		1 TX Slot	1880	29.54	-0.56	28.98	<=33.01	Pass
		2 TX Slots	1880	28.82	-0.56	28.26	<=33.01	Pass
		3 TX Slots	1880	27.08	-0.56	26.52	<=33.01	Pass
		4 TX Slots	1880	25.99	-0.56	25.43	<=33.01	Pass
		1 TX Slot	1909.8	28.96	-0.56	28.40	<=33.01	Pass
		2 TX Slots	1909.8	28.26	-0.56	27.70	<=33.01	Pass
		3 TX Slots	1909.8	26.55	-0.56	25.99	<=33.01	Pass
		4 TX Slots	1909.8	25.46	-0.56	24.90	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.48	-0.56	25.92	<=33.01	Pass
		2 TX Slots	1850.2	25.40	-0.56	24.84	<=33.01	Pass
		3 TX Slots	1850.2	23.43	-0.56	22.87	<=33.01	Pass
		4 TX Slots	1850.2	22.30	-0.56	21.74	<=33.01	Pass
		1 TX Slot	1880	26.14	-0.56	25.58	<=33.01	Pass
		2 TX Slots	1880	25.27	-0.56	24.71	<=33.01	Pass
		3 TX Slots	1880	23.16	-0.56	22.60	<=33.01	Pass
		4 TX Slots	1880	22.02	-0.56	21.46	<=33.01	Pass
		1 TX Slot	1909.8	26.46	-0.56	25.90	<=33.01	Pass
		2 TX Slots	1909.8	25.53	-0.56	24.97	<=33.01	Pass
		3 TX Slots	1909.8	24.30	-0.56	23.74	<=33.01	Pass
		4 TX Slots	1909.8	22.38	-0.56	21.82	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

## 2.1 PCS1900

## 2.1.1 Test Result

Network	Band: PCS1900						Verdict
	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
					Result	Limit	

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GSM	1850.2	20	3.46	25.570	0.0138	-2.5 to 2.5	Pass	
			3.8	22.762	0.0123	-2.5 to 2.5	Pass	
			4.35	19.146	0.0103	-2.5 to 2.5	Pass	
			-30	3.8	22.536	0.0122	-2.5 to 2.5	Pass
			-20	3.8	27.314	0.0148	-2.5 to 2.5	Pass
			-10	3.8	23.698	0.0128	-2.5 to 2.5	Pass
			0	3.8	26.022	0.0141	-2.5 to 2.5	Pass
			10	3.8	30.672	0.0166	-2.5 to 2.5	Pass
			30	3.8	20.986	0.0113	-2.5 to 2.5	Pass
			40	3.8	22.729	0.0123	-2.5 to 2.5	Pass
		50	3.8	24.473	0.0132	-2.5 to 2.5	Pass	
		1880	3.46	20.921	0.0111	-2.5 to 2.5	Pass	
			20	3.8	20.631	0.0110	-2.5 to 2.5	Pass
			4.35	23.149	0.0123	-2.5 to 2.5	Pass	
			-30	3.8	17.047	0.0091	-2.5 to 2.5	Pass
			-20	3.8	20.760	0.0110	-2.5 to 2.5	Pass
			-10	3.8	27.249	0.0145	-2.5 to 2.5	Pass
			0	3.8	20.534	0.0109	-2.5 to 2.5	Pass
			10	3.8	29.316	0.0156	-2.5 to 2.5	Pass
			30	3.8	26.087	0.0139	-2.5 to 2.5	Pass
			40	3.8	22.665	0.0121	-2.5 to 2.5	Pass
		50	3.8	25.538	0.0136	-2.5 to 2.5	Pass	
		1909.8	3.46	20.598	0.0108	-2.5 to 2.5	Pass	
			20	3.8	21.599	0.0113	-2.5 to 2.5	Pass
			4.35	20.082	0.0105	-2.5 to 2.5	Pass	
			-30	3.8	21.761	0.0114	-2.5 to 2.5	Pass
			-20	3.8	26.378	0.0138	-2.5 to 2.5	Pass
			-10	3.8	24.666	0.0129	-2.5 to 2.5	Pass
			0	3.8	24.053	0.0126	-2.5 to 2.5	Pass
			10	3.8	20.308	0.0106	-2.5 to 2.5	Pass
			30	3.8	23.601	0.0124	-2.5 to 2.5	Pass
			40	3.8	24.473	0.0128	-2.5 to 2.5	Pass
			50	3.8	18.952	0.0099	-2.5 to 2.5	Pass
			3.46	23.052	0.0125	-2.5 to 2.5	Pass	
			20	3.8	18.209	0.0098	-2.5 to 2.5	Pass
			4.35	22.858	0.0124	-2.5 to 2.5	Pass	
			-30	3.8	20.857	0.0113	-2.5 to 2.5	Pass
			-20	3.8	23.278	0.0126	-2.5 to 2.5	Pass
			-10	3.8	22.858	0.0124	-2.5 to 2.5	Pass
			0	3.8	22.536	0.0122	-2.5 to 2.5	Pass
			10	3.8	22.503	0.0122	-2.5 to 2.5	Pass
			30	3.8	20.146	0.0109	-2.5 to 2.5	Pass
			40	3.8	21.987	0.0119	-2.5 to 2.5	Pass
			50	3.8	19.759	0.0107	-2.5 to 2.5	Pass
		1880	3.46	20.146	0.0107	-2.5 to 2.5	Pass	
			20	3.8	23.149	0.0123	-2.5 to 2.5	Pass
			4.35	21.535	0.0115	-2.5 to 2.5	Pass	
			-30	3.8	17.919	0.0095	-2.5 to 2.5	Pass
			-20	3.8	26.055	0.0139	-2.5 to 2.5	Pass
			-10	3.8	21.761	0.0116	-2.5 to 2.5	Pass
			0	3.8	17.822	0.0095	-2.5 to 2.5	Pass
			10	3.8	26.894	0.0143	-2.5 to 2.5	Pass
			30	3.8	19.824	0.0105	-2.5 to 2.5	Pass
			40	3.8	16.530	0.0088	-2.5 to 2.5	Pass

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	1909.8	50	3.8	16.724	0.0089	-2.5 to 2.5	Pass
		20	3.46	21.502	0.0113	-2.5 to 2.5	Pass
		20	3.8	20.986	0.0110	-2.5 to 2.5	Pass
		20	4.35	18.726	0.0098	-2.5 to 2.5	Pass
		-30	3.8	22.051	0.0115	-2.5 to 2.5	Pass
		-20	3.8	22.406	0.0117	-2.5 to 2.5	Pass
		-10	3.8	20.308	0.0106	-2.5 to 2.5	Pass
		0	3.8	21.858	0.0114	-2.5 to 2.5	Pass
		10	3.8	20.663	0.0108	-2.5 to 2.5	Pass
		30	3.8	20.211	0.0106	-2.5 to 2.5	Pass
		40	3.8	22.277	0.0117	-2.5 to 2.5	Pass
		50	3.8	19.759	0.0103	-2.5 to 2.5	Pass
		20	3.46	25.409	0.0137	-2.5 to 2.5	Pass
		20	3.8	22.600	0.0122	-2.5 to 2.5	Pass
EGPRS	1850.2	20	4.35	20.017	0.0108	-2.5 to 2.5	Pass
		-30	3.8	15.788	0.0085	-2.5 to 2.5	Pass
		-20	3.8	17.499	0.0095	-2.5 to 2.5	Pass
		-10	3.8	15.013	0.0081	-2.5 to 2.5	Pass
		0	3.8	19.791	0.0107	-2.5 to 2.5	Pass
		10	3.8	20.211	0.0109	-2.5 to 2.5	Pass
		30	3.8	19.565	0.0106	-2.5 to 2.5	Pass
		40	3.8	16.821	0.0091	-2.5 to 2.5	Pass
		50	3.8	18.952	0.0102	-2.5 to 2.5	Pass
		20	3.46	18.274	0.0097	-2.5 to 2.5	Pass
		20	3.8	19.242	0.0102	-2.5 to 2.5	Pass
		20	4.35	21.115	0.0112	-2.5 to 2.5	Pass
		-30	3.8	16.886	0.0090	-2.5 to 2.5	Pass
		-20	3.8	16.208	0.0086	-2.5 to 2.5	Pass
EGPRS	1880	-10	3.8	17.854	0.0095	-2.5 to 2.5	Pass
		0	3.8	16.337	0.0087	-2.5 to 2.5	Pass
		10	3.8	24.376	0.0130	-2.5 to 2.5	Pass
		30	3.8	21.954	0.0117	-2.5 to 2.5	Pass
		40	3.8	17.273	0.0092	-2.5 to 2.5	Pass
		50	3.8	12.817	0.0068	-2.5 to 2.5	Pass
		20	3.46	15.271	0.0080	-2.5 to 2.5	Pass
		20	3.8	14.077	0.0074	-2.5 to 2.5	Pass
		20	4.35	12.850	0.0067	-2.5 to 2.5	Pass
		-30	3.8	12.333	0.0065	-2.5 to 2.5	Pass
		-20	3.8	17.176	0.0090	-2.5 to 2.5	Pass
		-10	3.8	22.600	0.0118	-2.5 to 2.5	Pass
		0	3.8	17.854	0.0093	-2.5 to 2.5	Pass
		10	3.8	17.854	0.0093	-2.5 to 2.5	Pass
EGPRS	1909.8	30	3.8	17.047	0.0089	-2.5 to 2.5	Pass
		40	3.8	11.849	0.0062	-2.5 to 2.5	Pass
		50	3.8	20.534	0.0108	-2.5 to 2.5	Pass

### 3. Modulation Characteristics

#### 3.1 PCS1900

##### 3.1.1 Test Result

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



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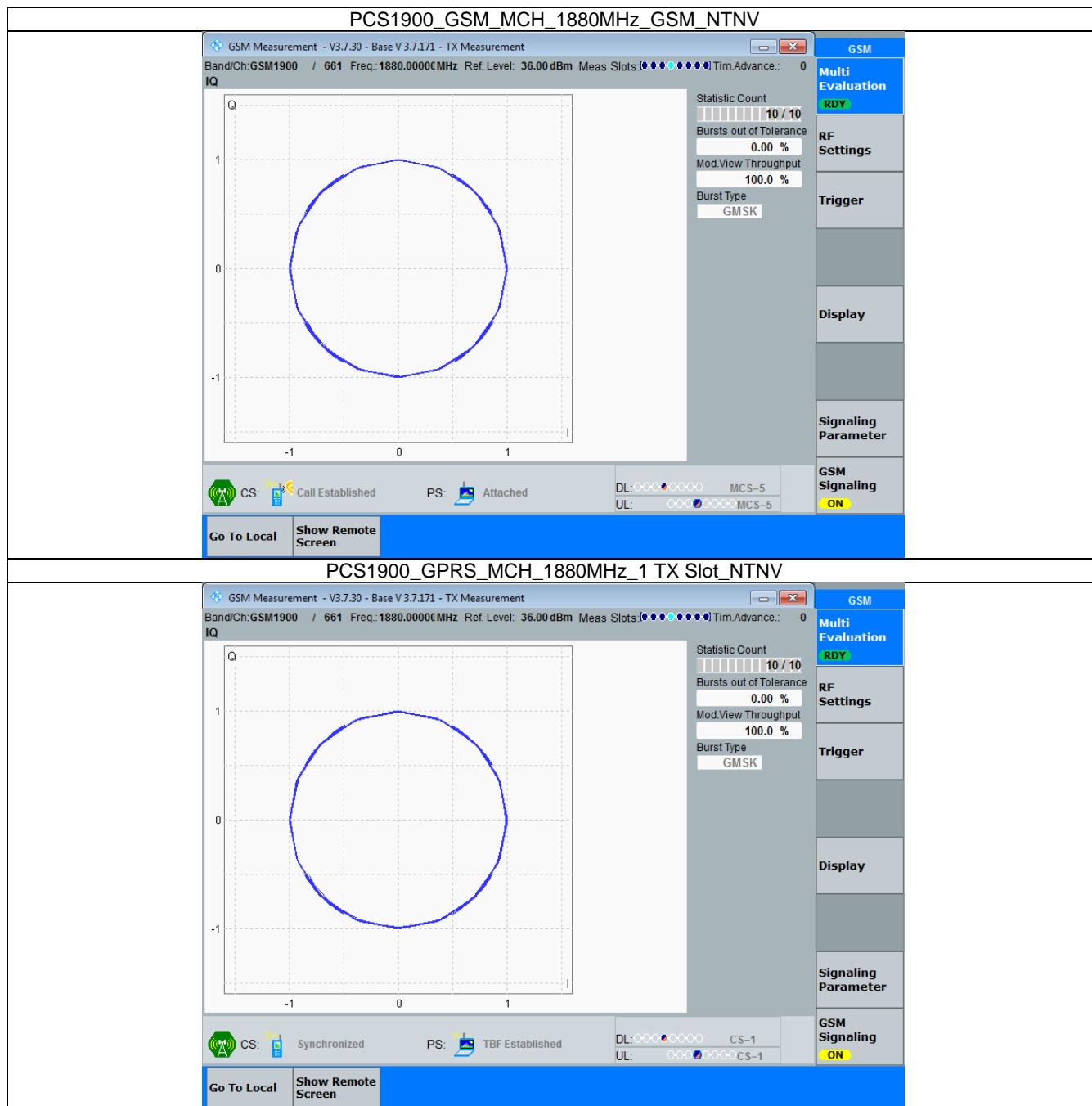
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## 3.1.2 Test Graph

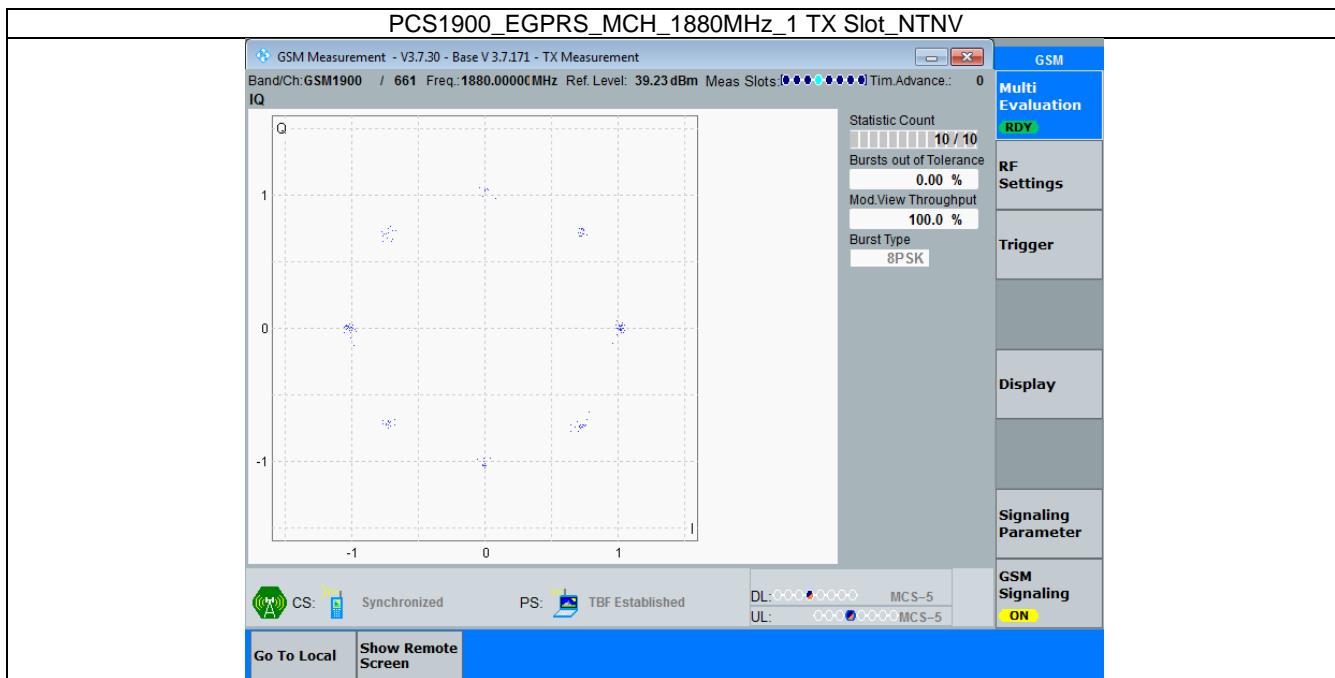


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## 4. 99% & 26dB Bandwidth

### 4.1 PCS1900\_OBW

#### 4.1.1 Test Result

ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result		
		1850.2	0.251	0.247	Pass	
NTNV	GSM	GSM	1880	0.247	0.249	Pass
			1909.8	0.249	0.248	Pass
			1850.2	0.248	0.247	Pass
	GPRS	1 TX Slot	1880	0.247	0.248	Pass
			1909.8	0.248	0.245	Pass
			1850.2	0.245	0.236	Pass
	EGPRS	1 TX Slot	1880	0.244	0.244	Pass
			1909.8	0.244	0.244	Pass
			1909.8	0.244	0.244	Pass

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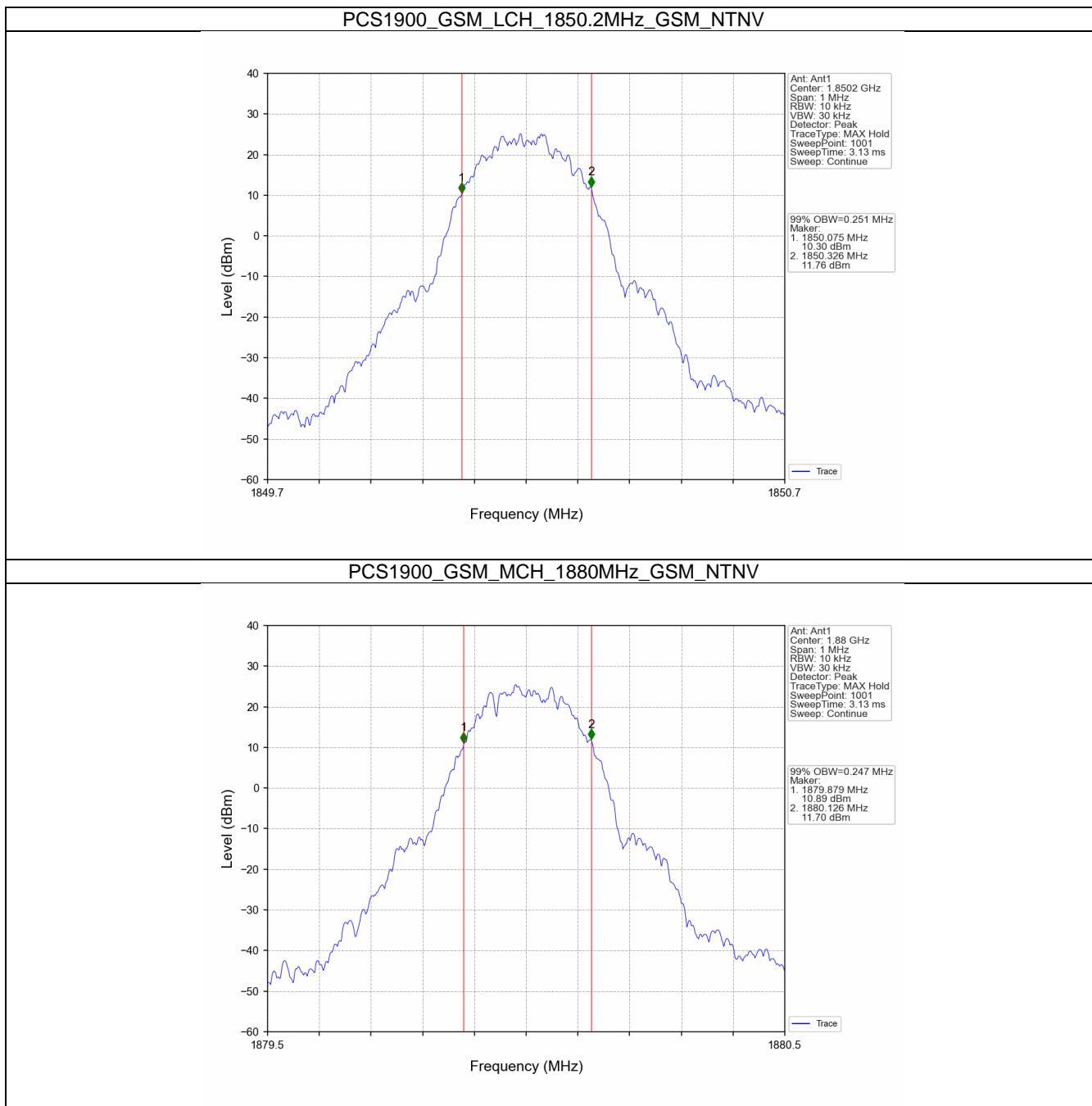


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## 4.1.2 Test Graph



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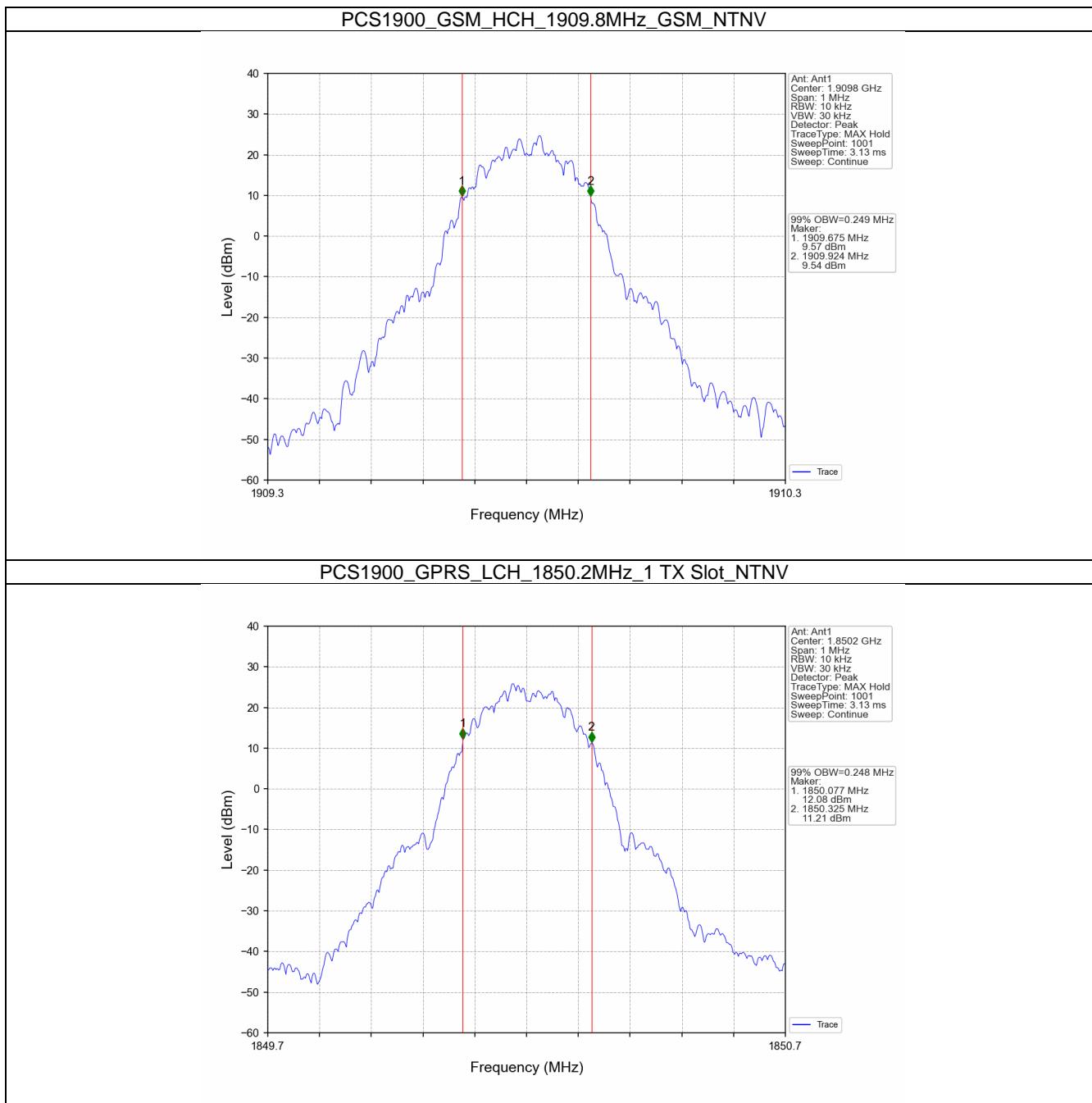
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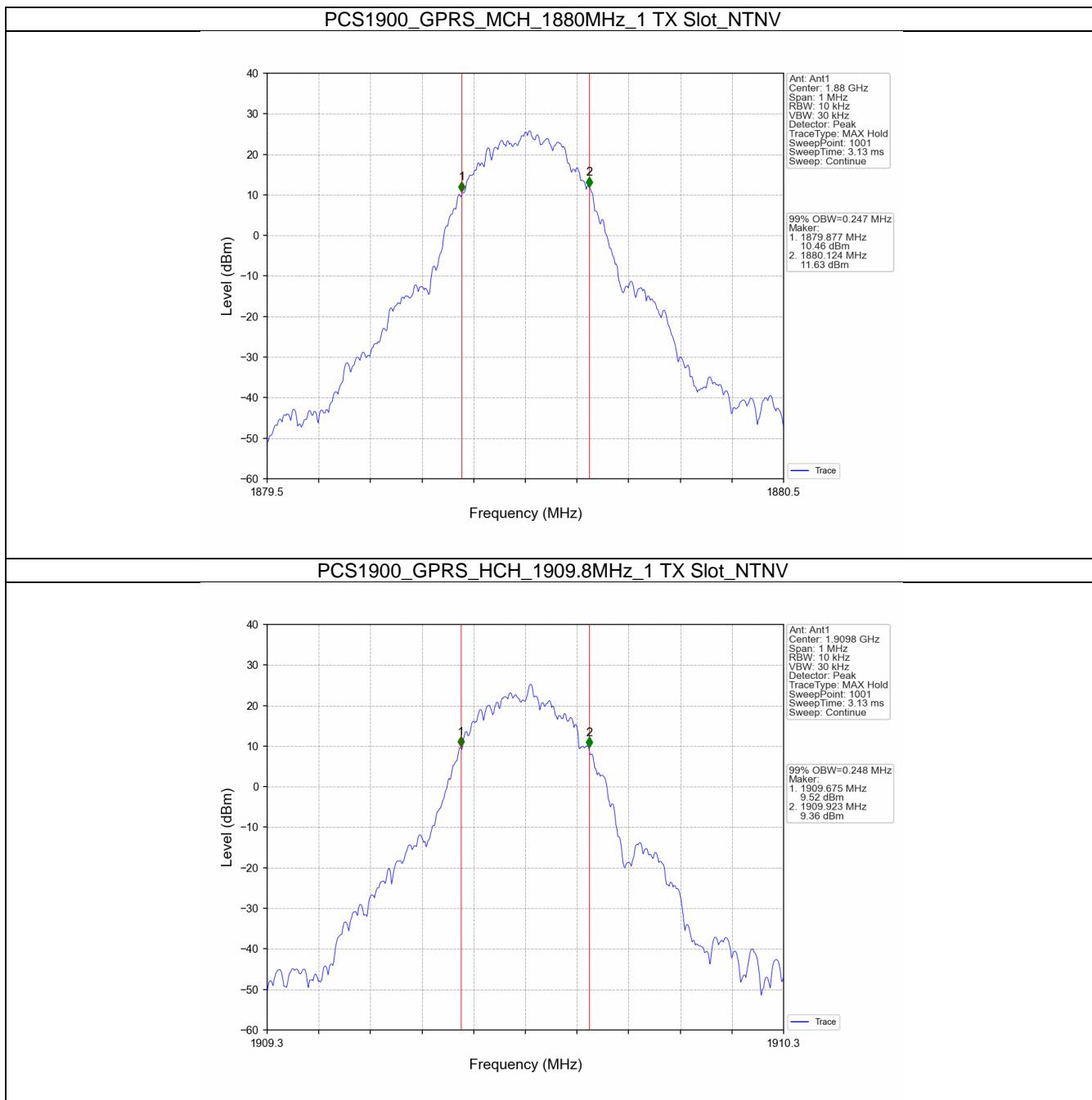
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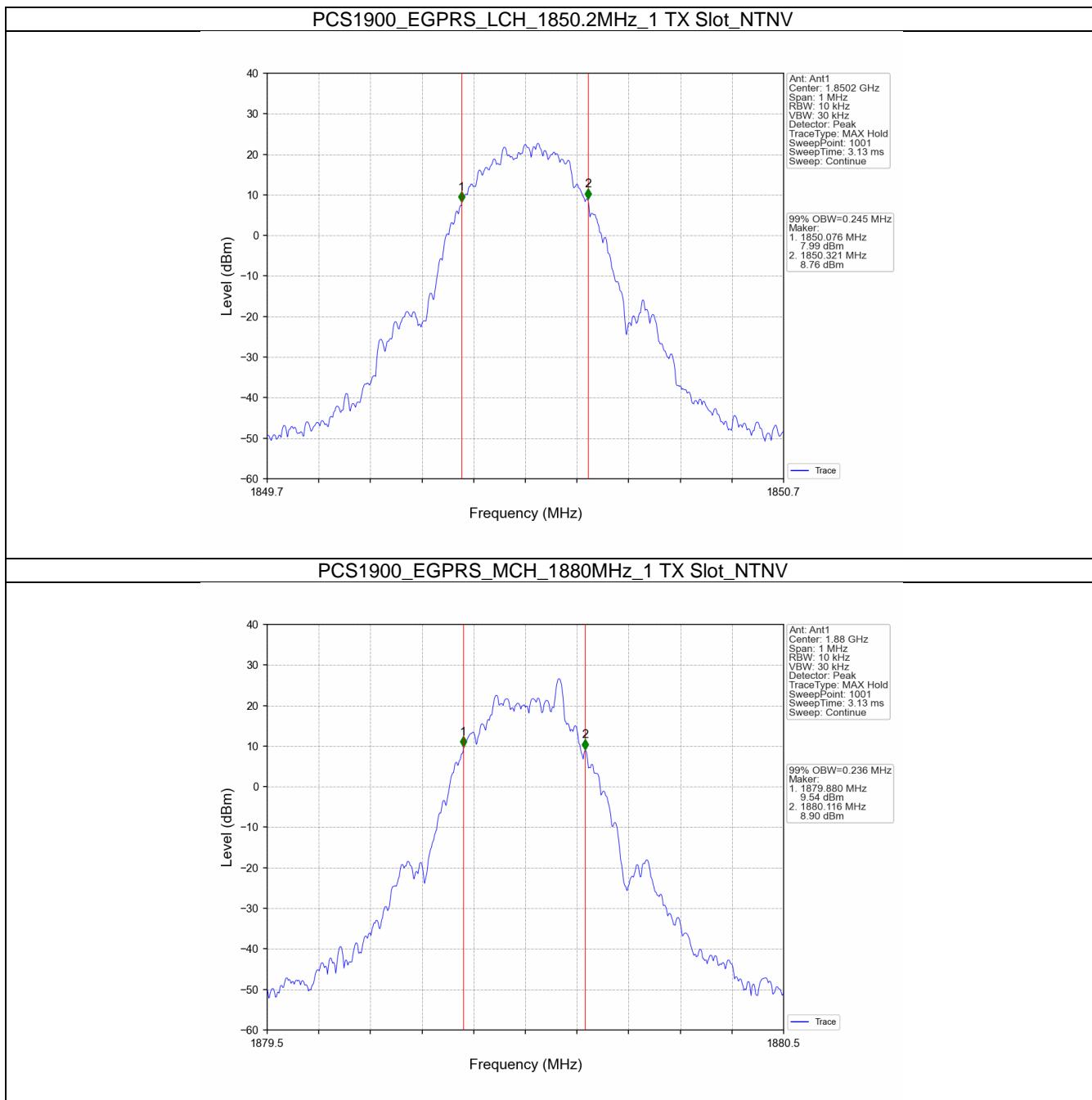
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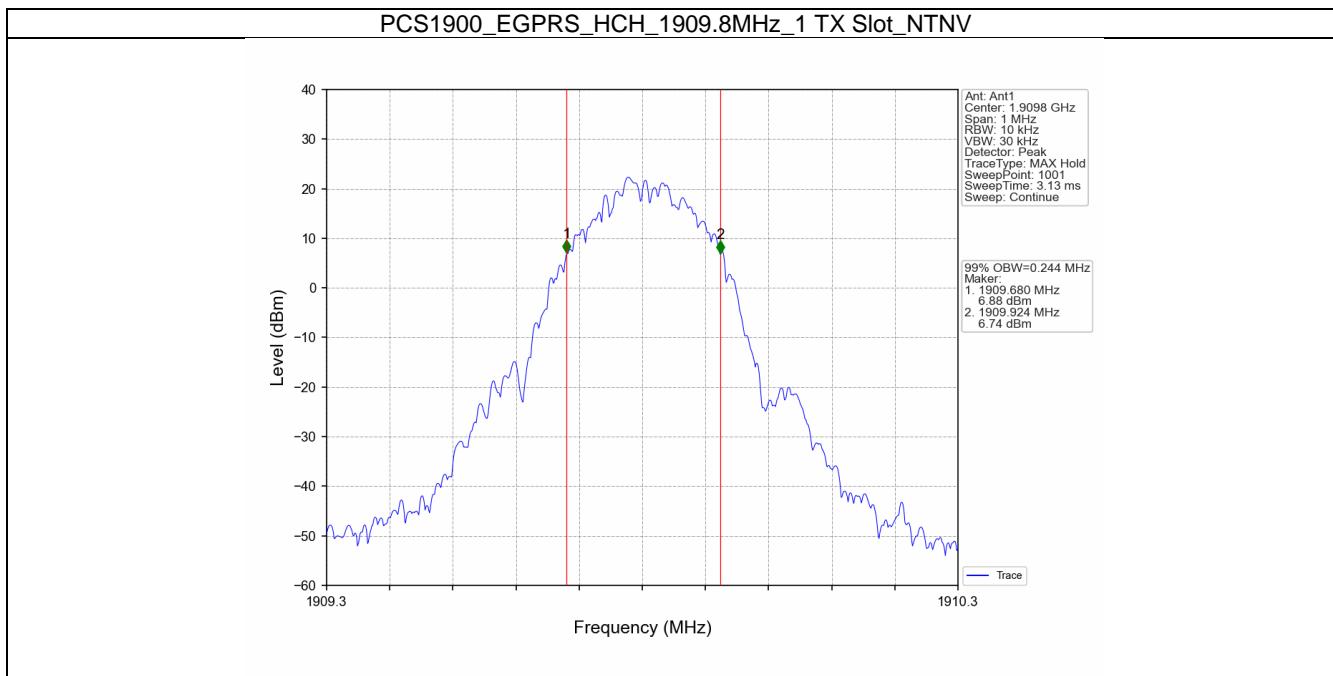
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## 4.2 PCS1900\_XDB

## 4.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset			
NTNV	GSM	GSM	1850.2	0.322	Pass
			1880	0.318	Pass
			1909.8	0.318	Pass
	GPRS	1 TX Slot	1850.2	0.318	Pass
			1880	0.316	Pass
			1909.8	0.313	Pass
	EGPRS	1 TX Slot	1850.2	0.317	Pass
			1880	0.290	Pass
			1909.8	0.304	Pass



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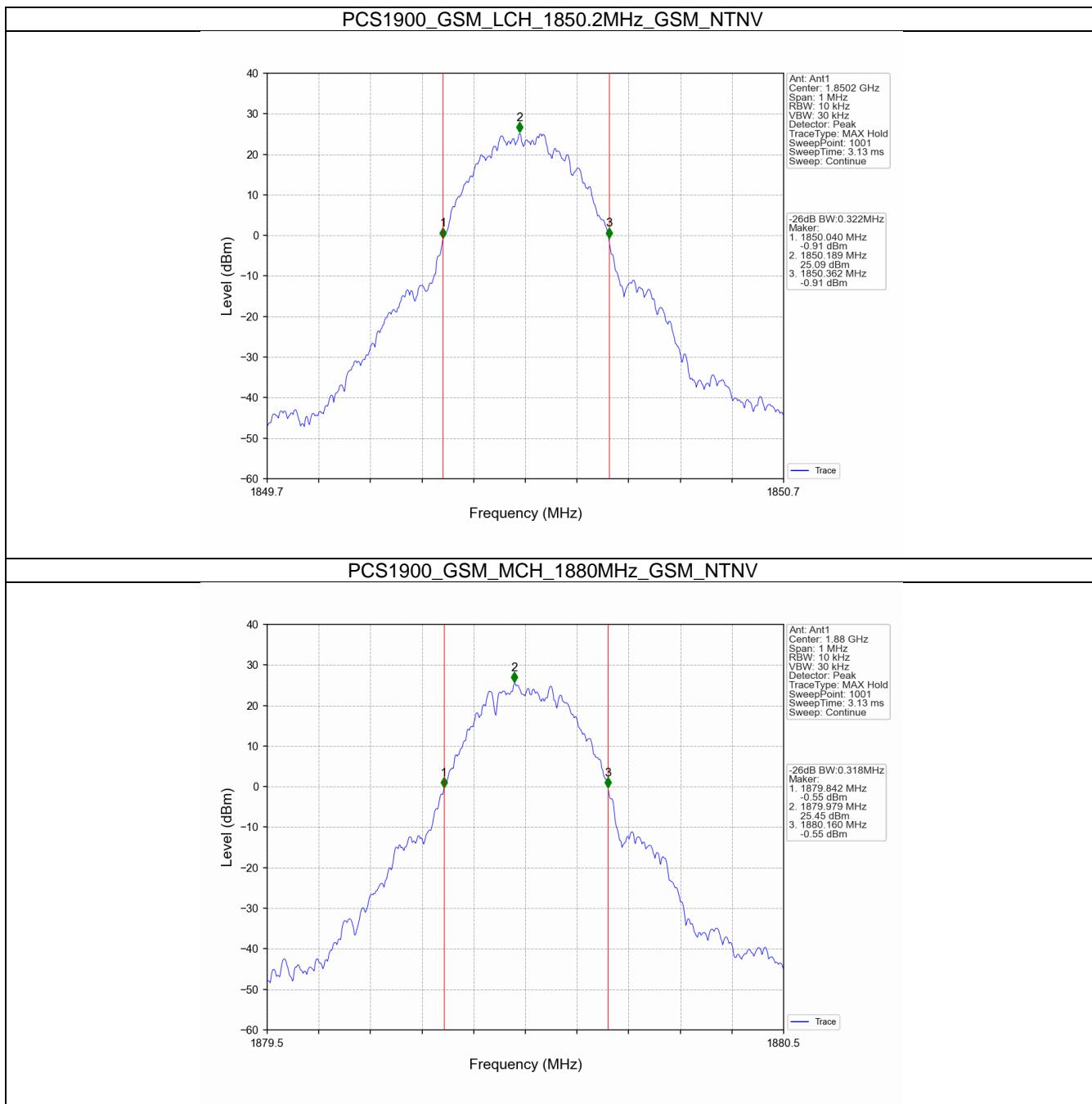
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## 4.2.2 Test Graph



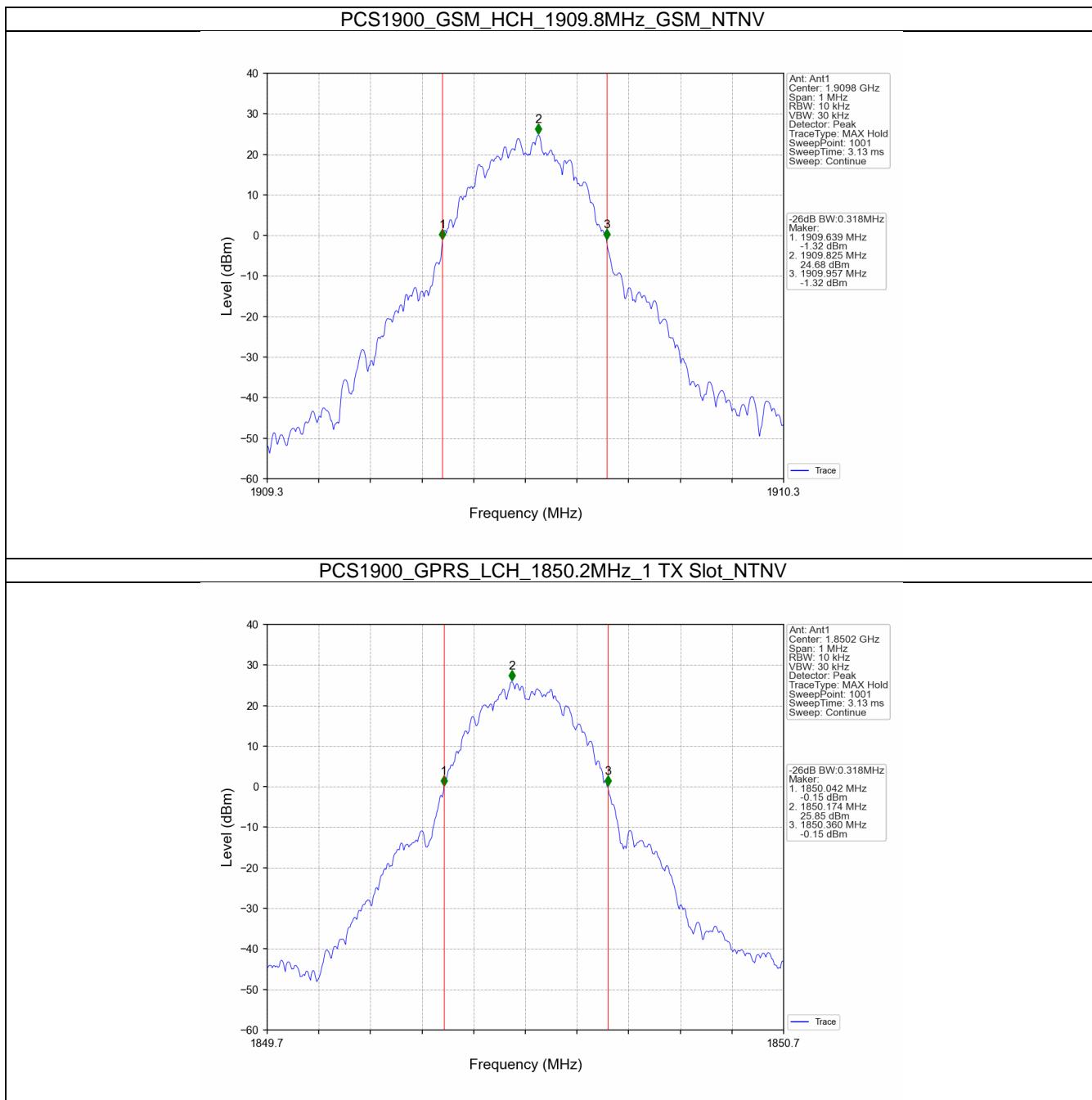
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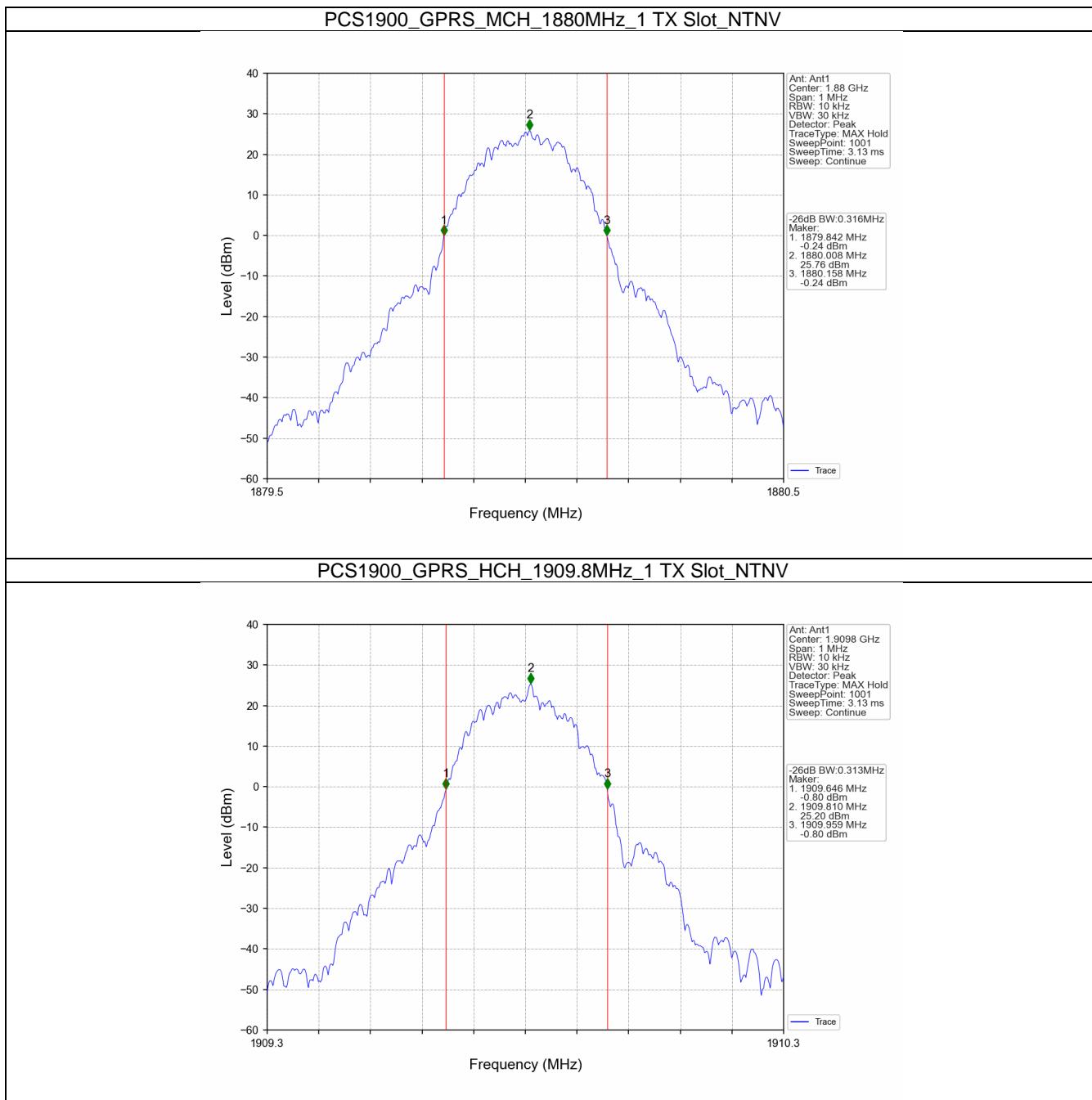
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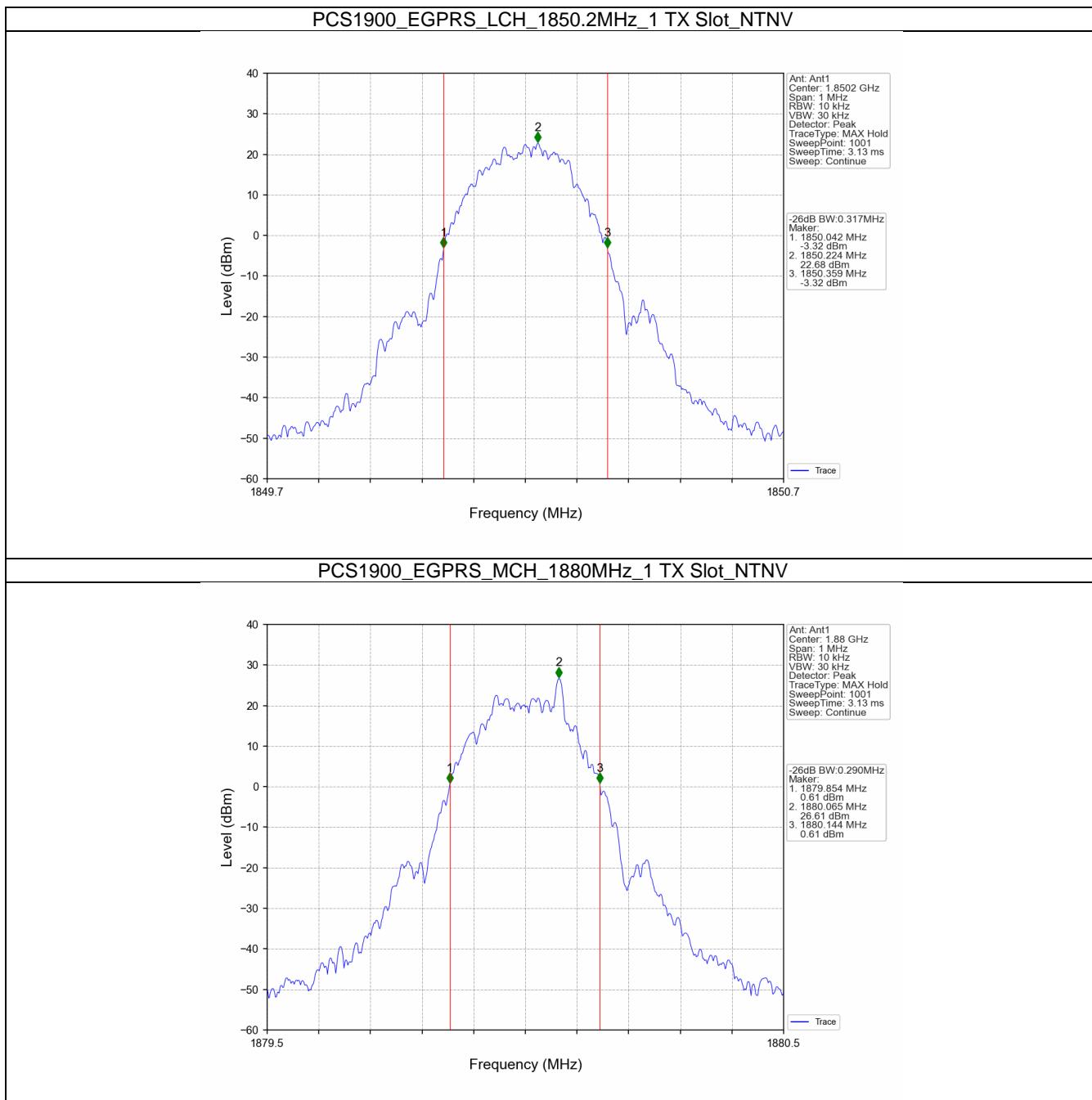
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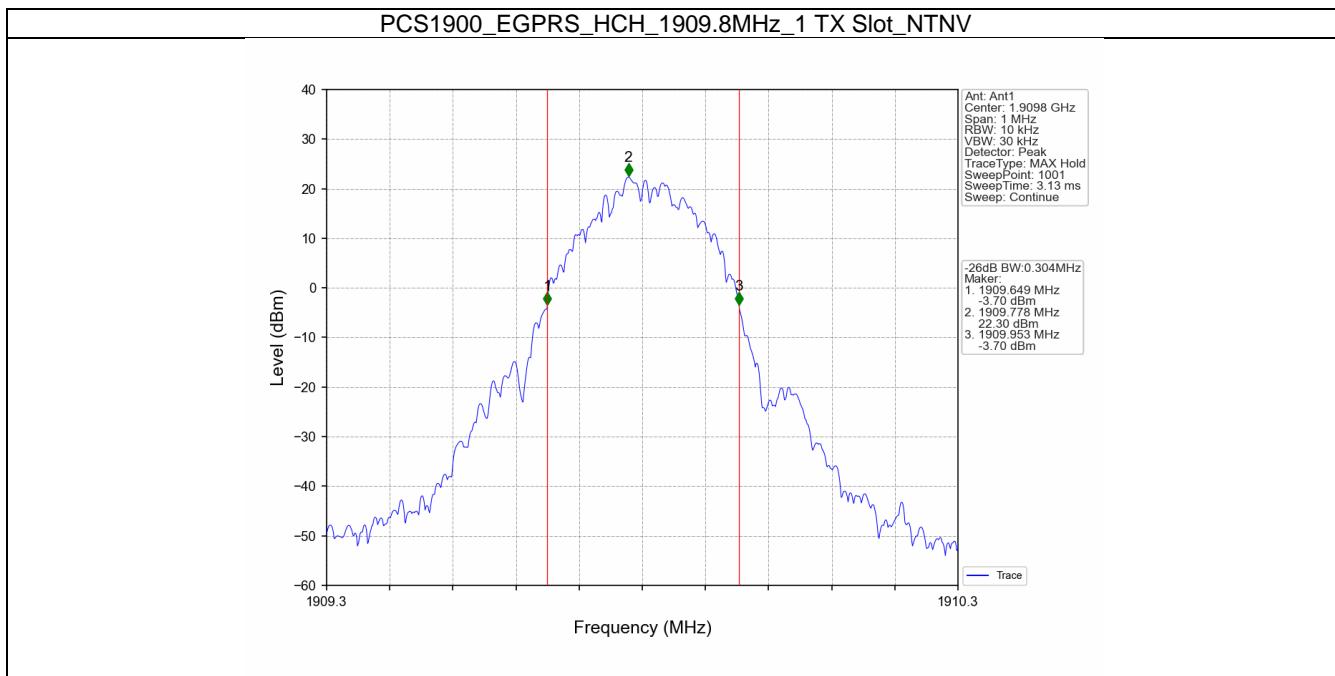
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## 5. Peak-Average Ratio

### 5.1 PCS1900

#### 5.1.1 Test Result

ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict	
	Network	Subset		Result	Limit		
NTNV	GSM	GSM	1850.2	9.57	<=13	Pass	
			1880	9.46	<=13	Pass	
			1909.8	9.33	<=13	Pass	
	GPRS	4 TX Slots	1850.2	9.77	<=13	Pass	
			1880	3.55	<=13	Pass	
			1909.8	3.51	<=13	Pass	
	EGPRS	4 TX Slots	1850.2	12.23	<=13	Pass	
			1880	7.75	<=13	Pass	
			1909.8	6.98	<=13	Pass	



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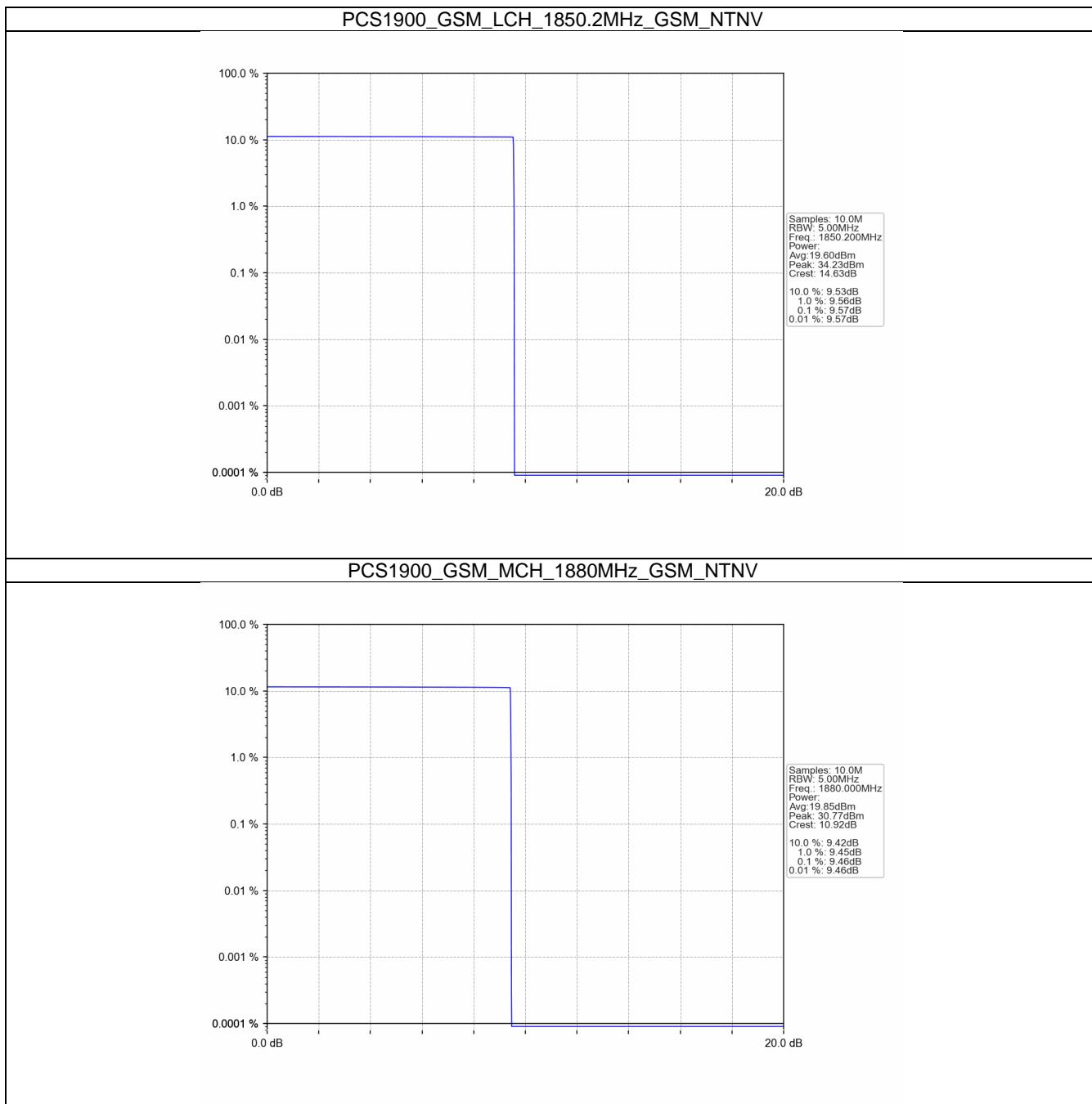
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## 5.1.2 Test Graph



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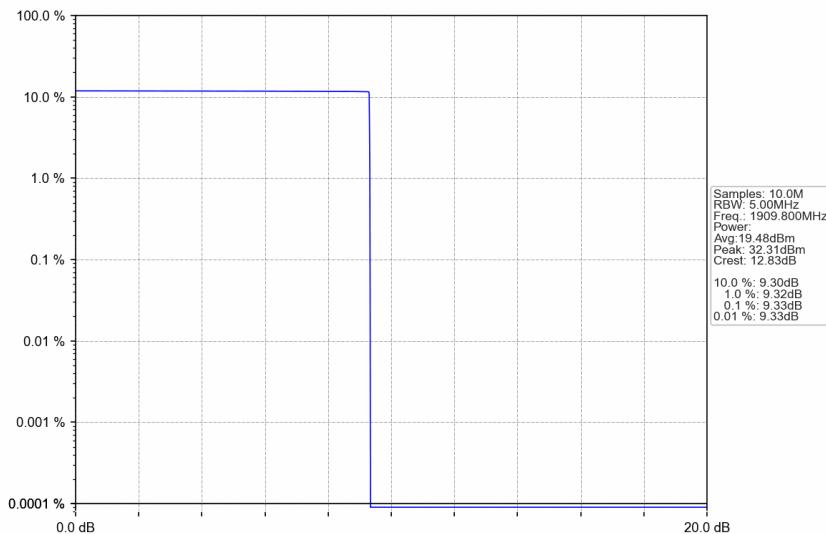
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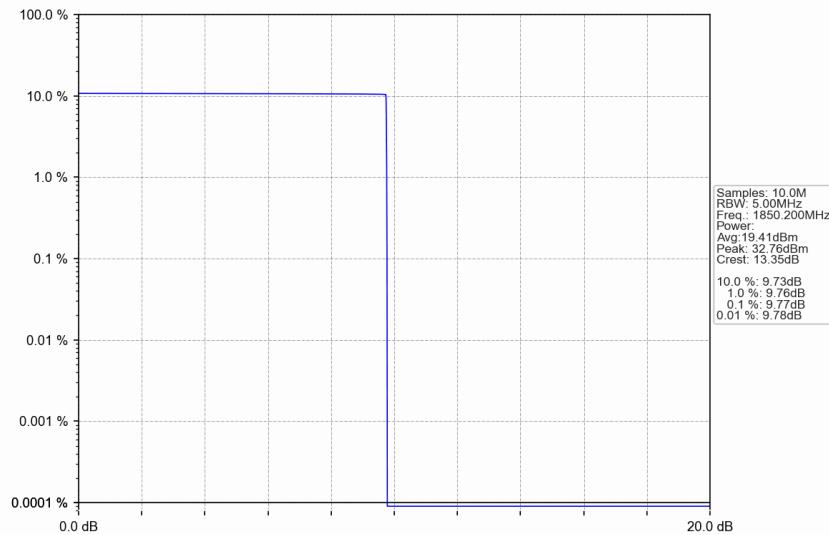
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## PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



## PCS1900\_GPRS\_LCH\_1850.2MHz\_4 TX Slots\_NTNV



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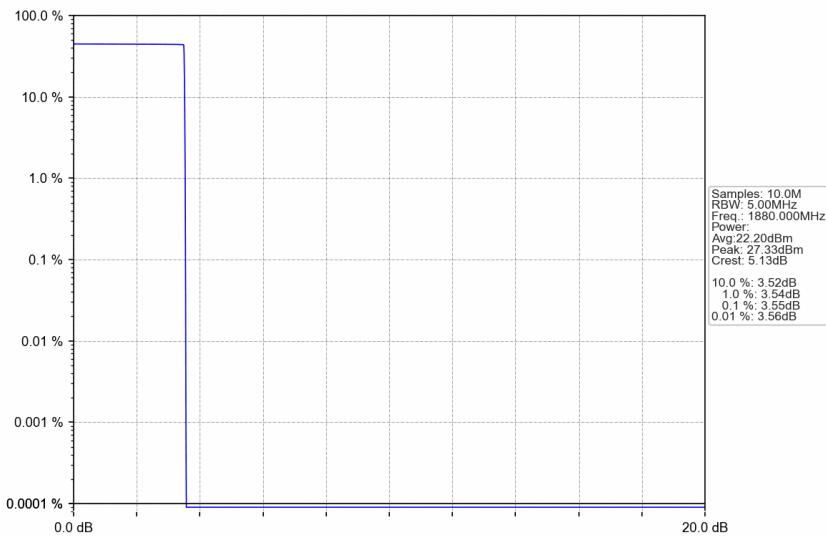
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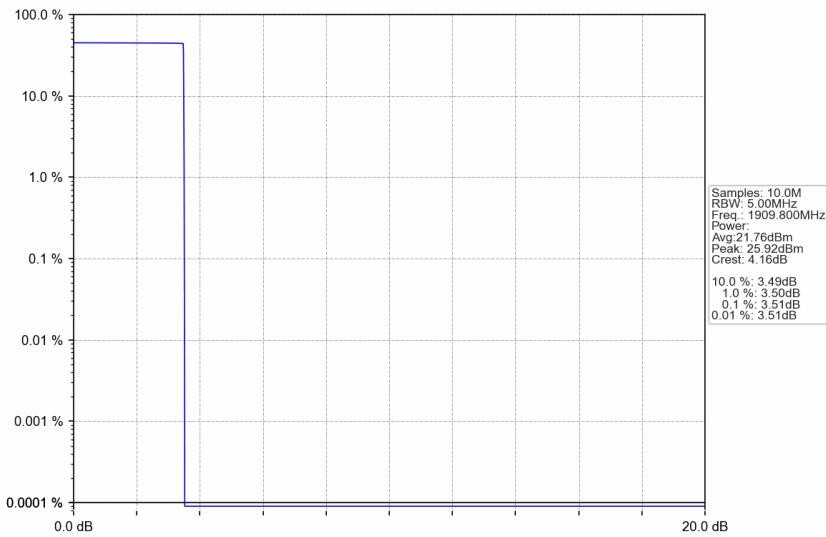
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## PCS1900\_GPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



## PCS1900\_GPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV



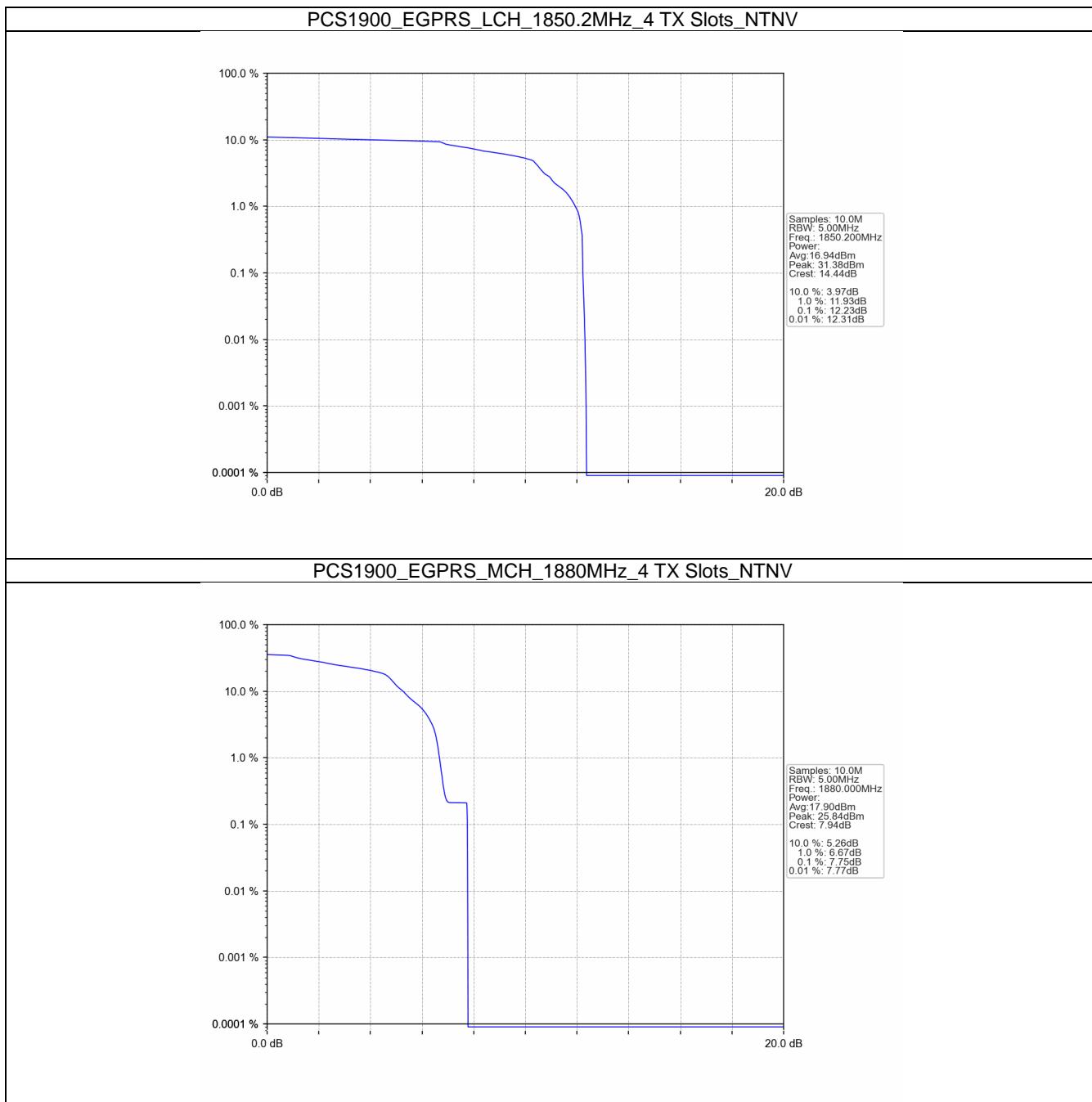
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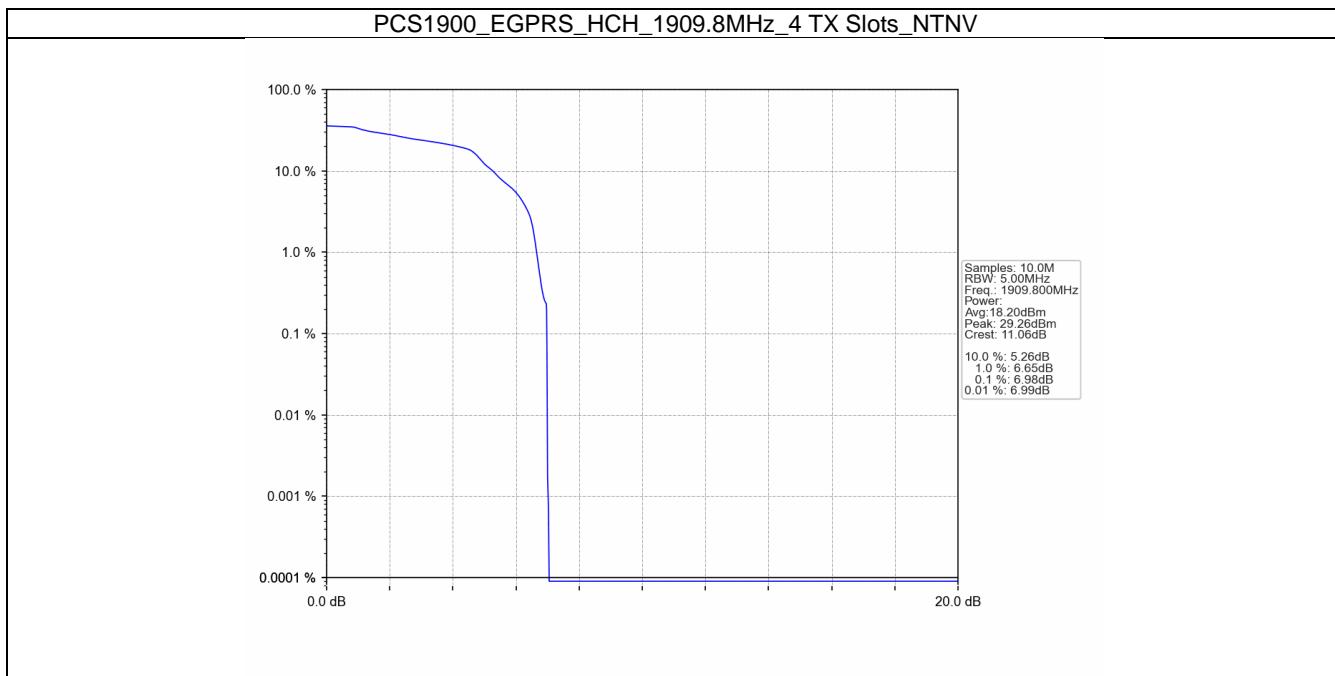
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## 6. Spurious Emission

### 6.1 PCS1900

#### 6.1.1 Test Result

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	

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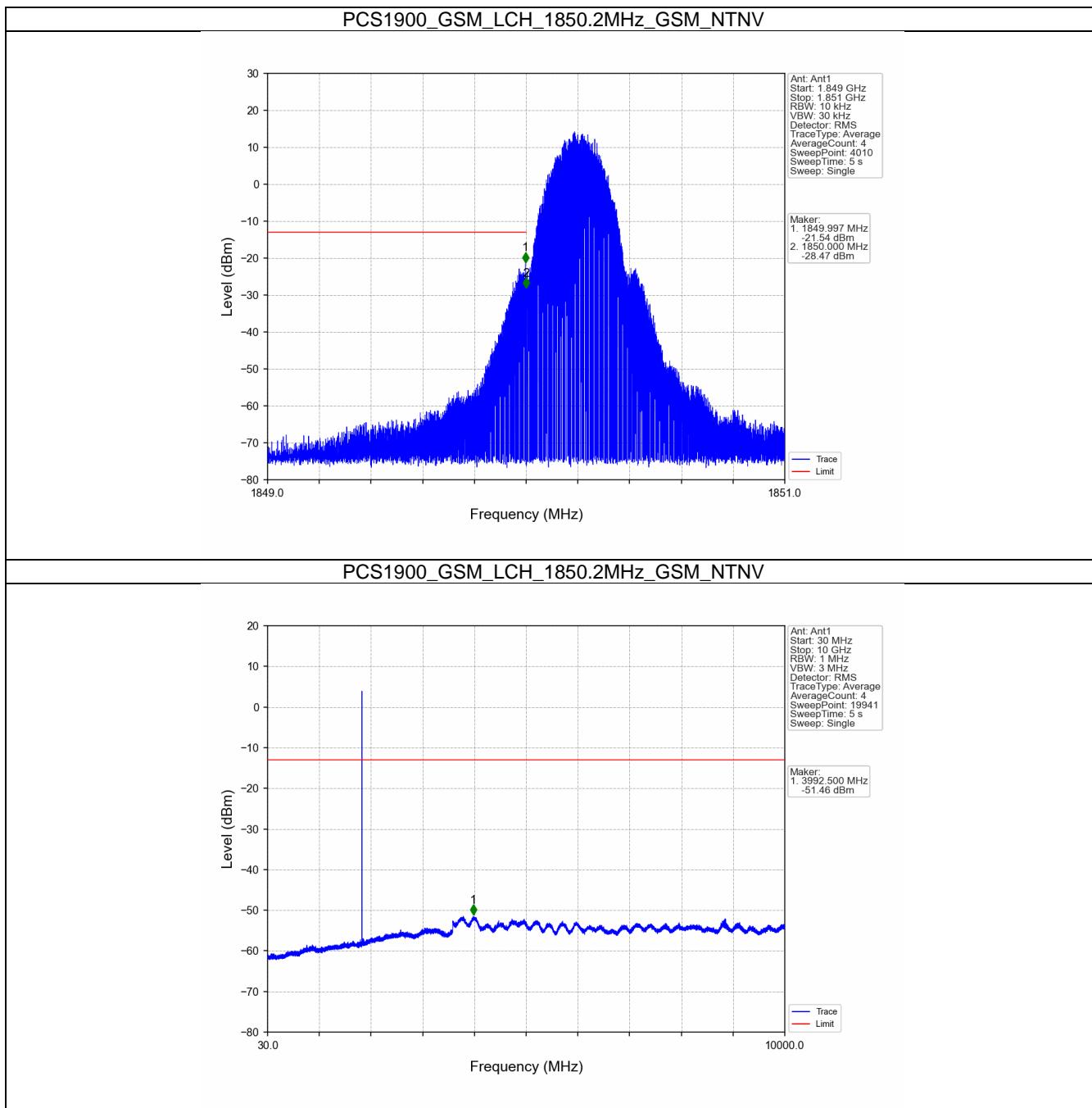


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## 6.1.2 Test Graph



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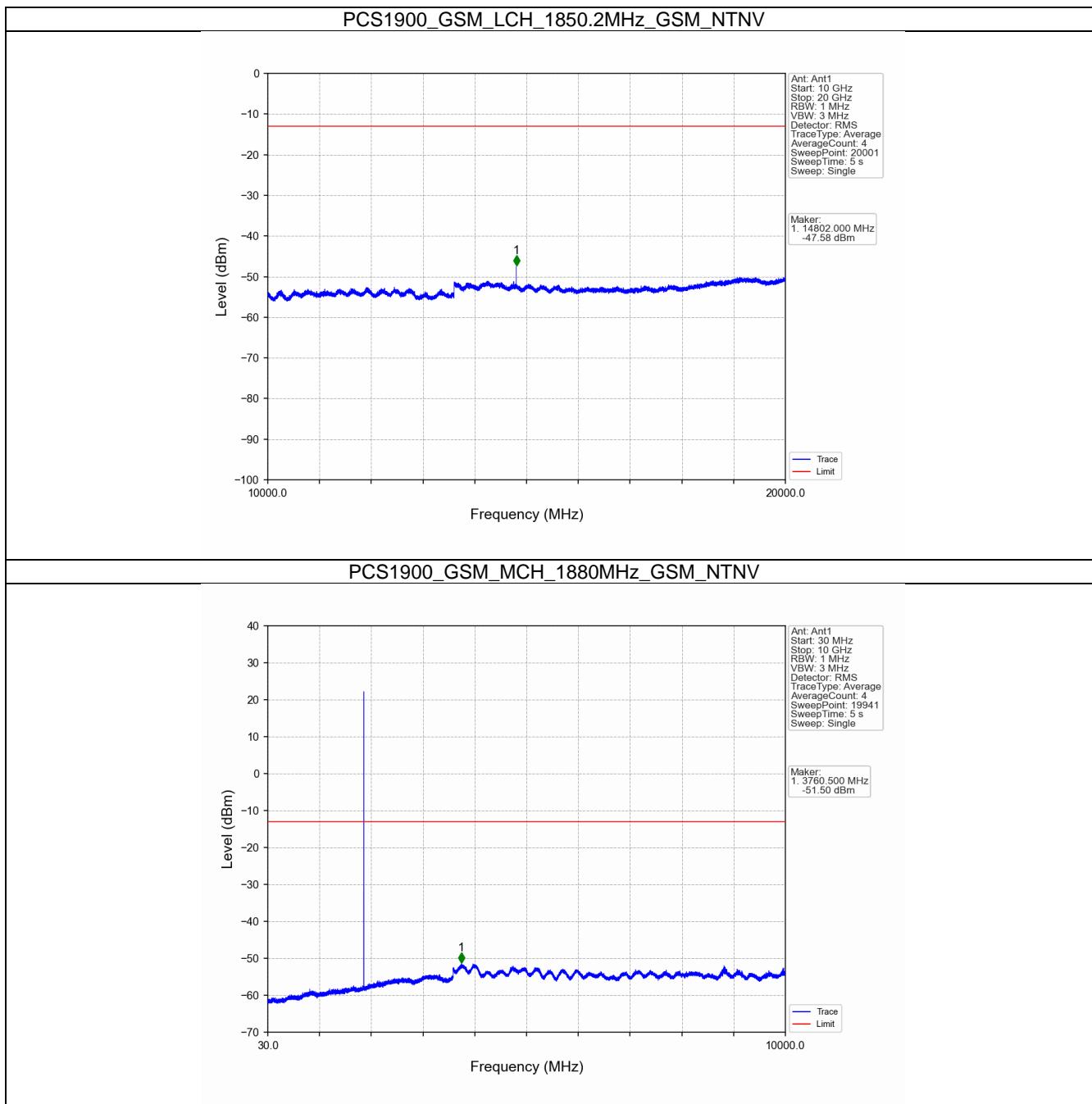
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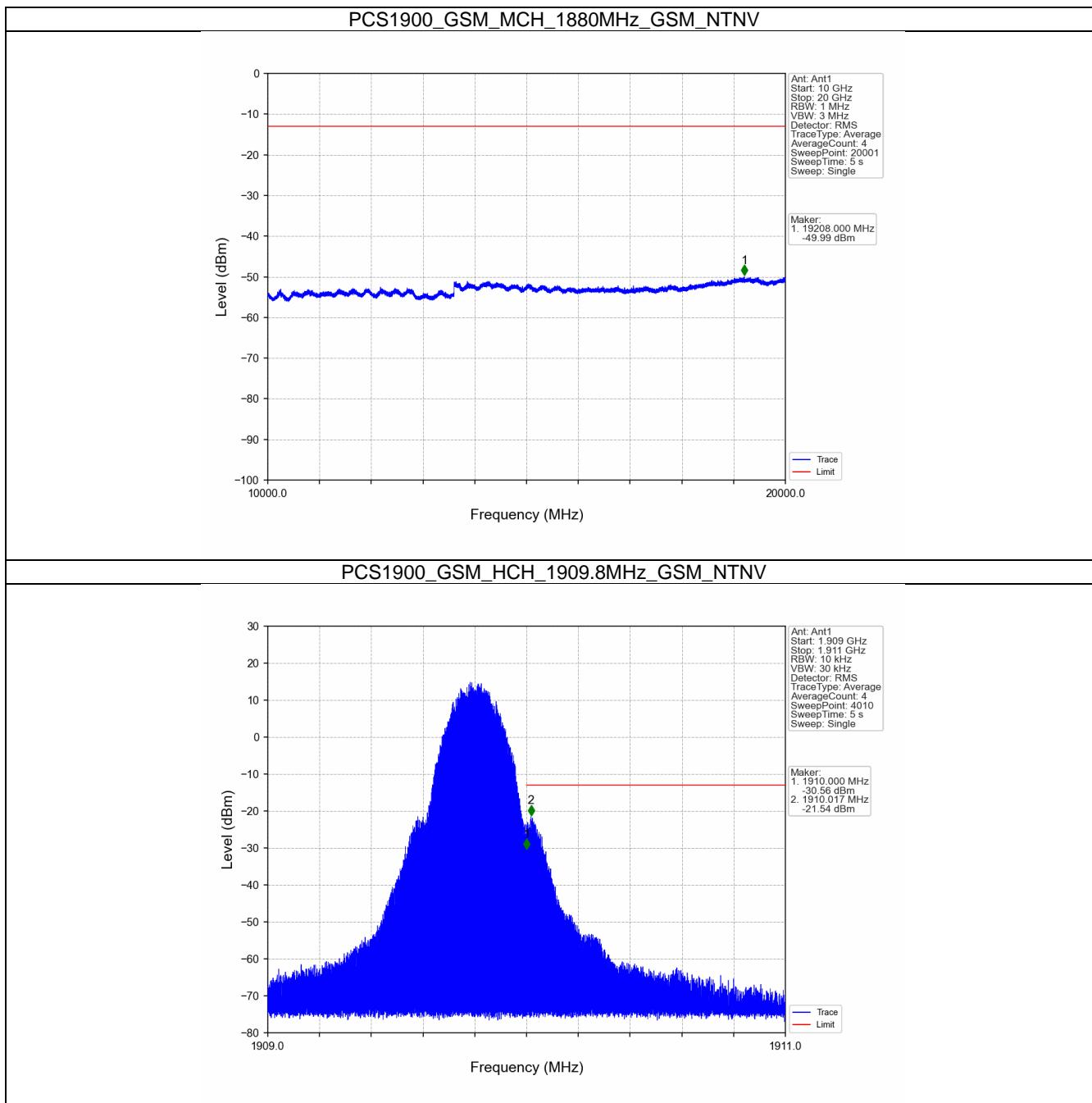
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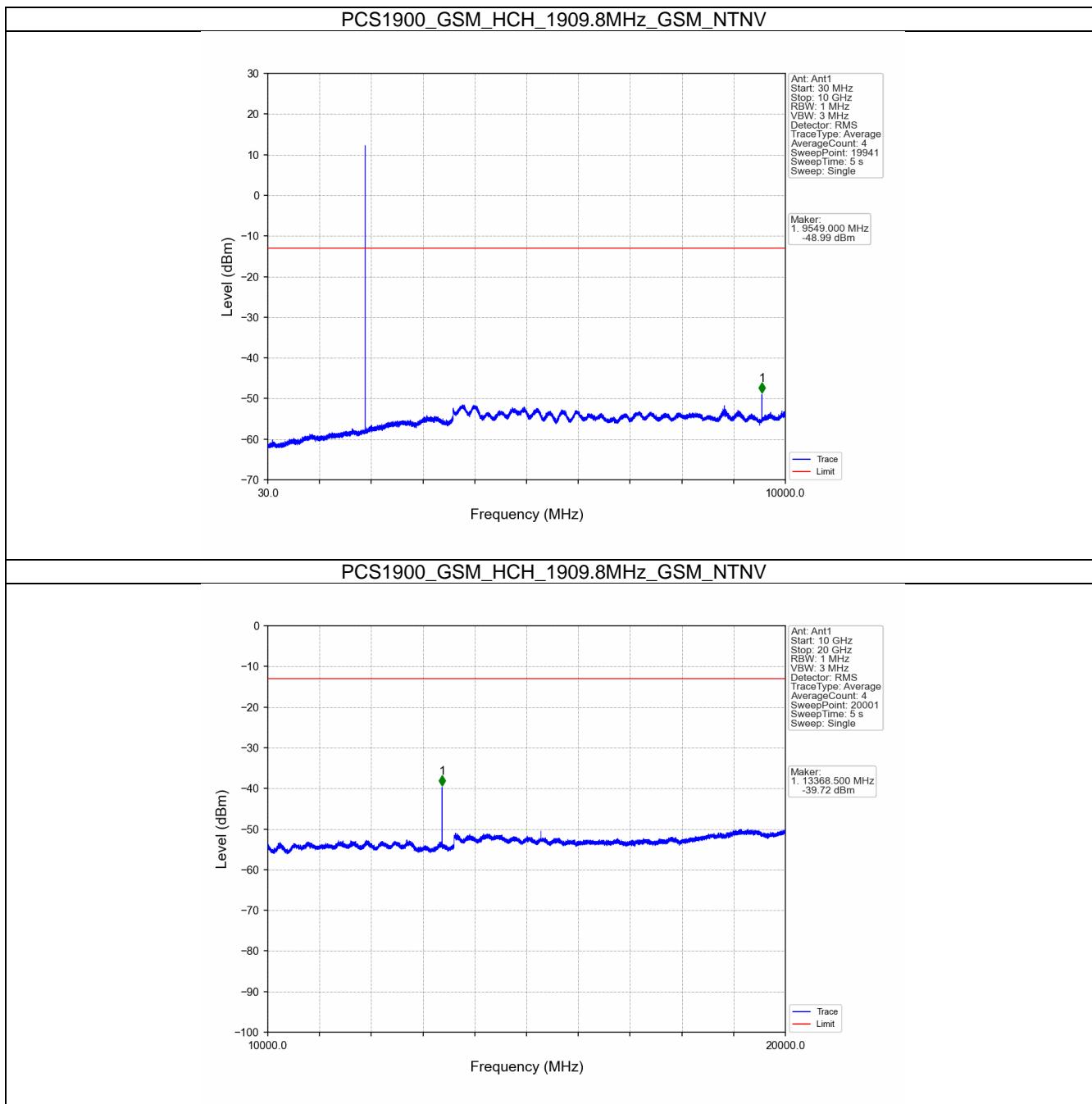
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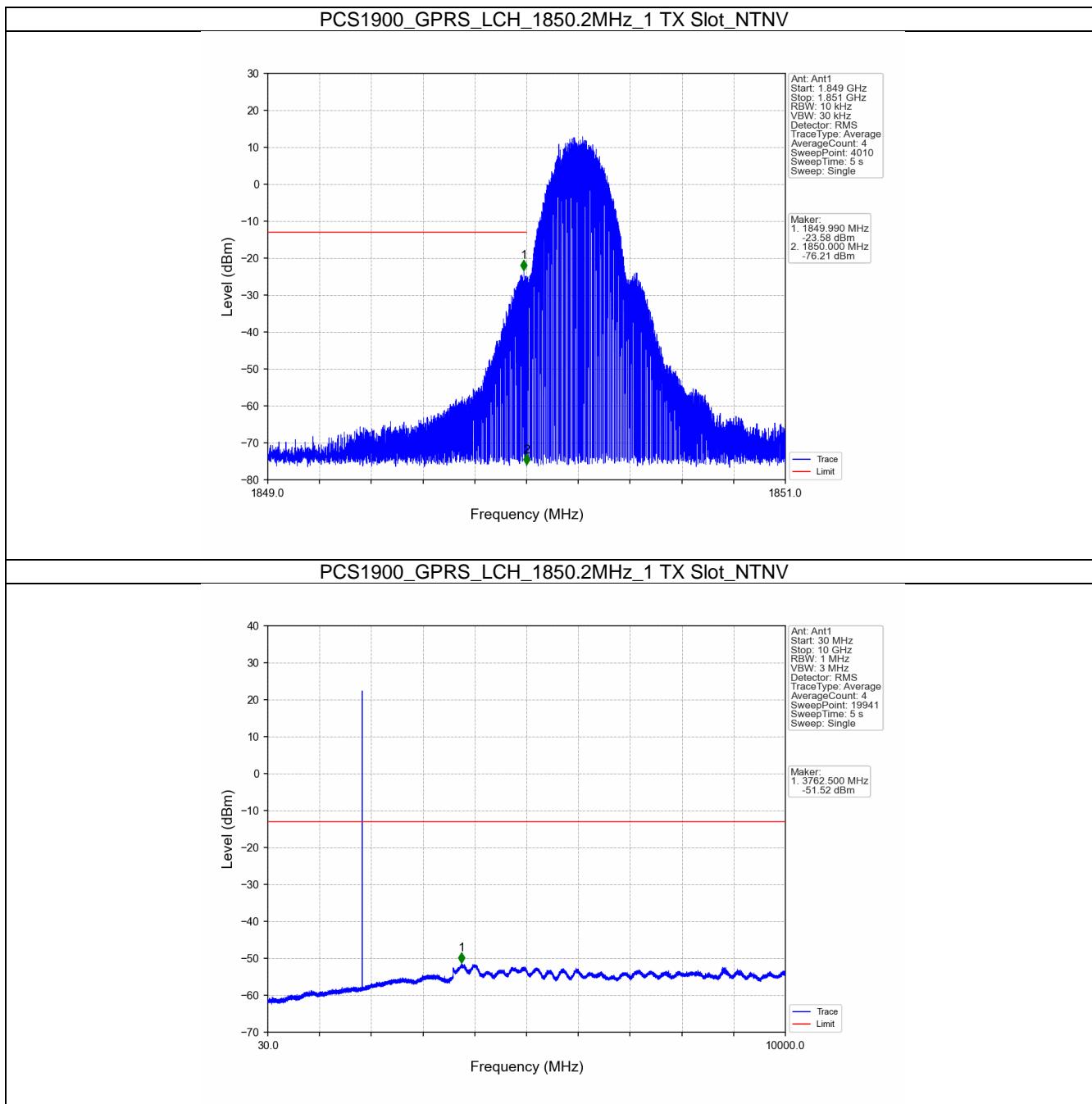
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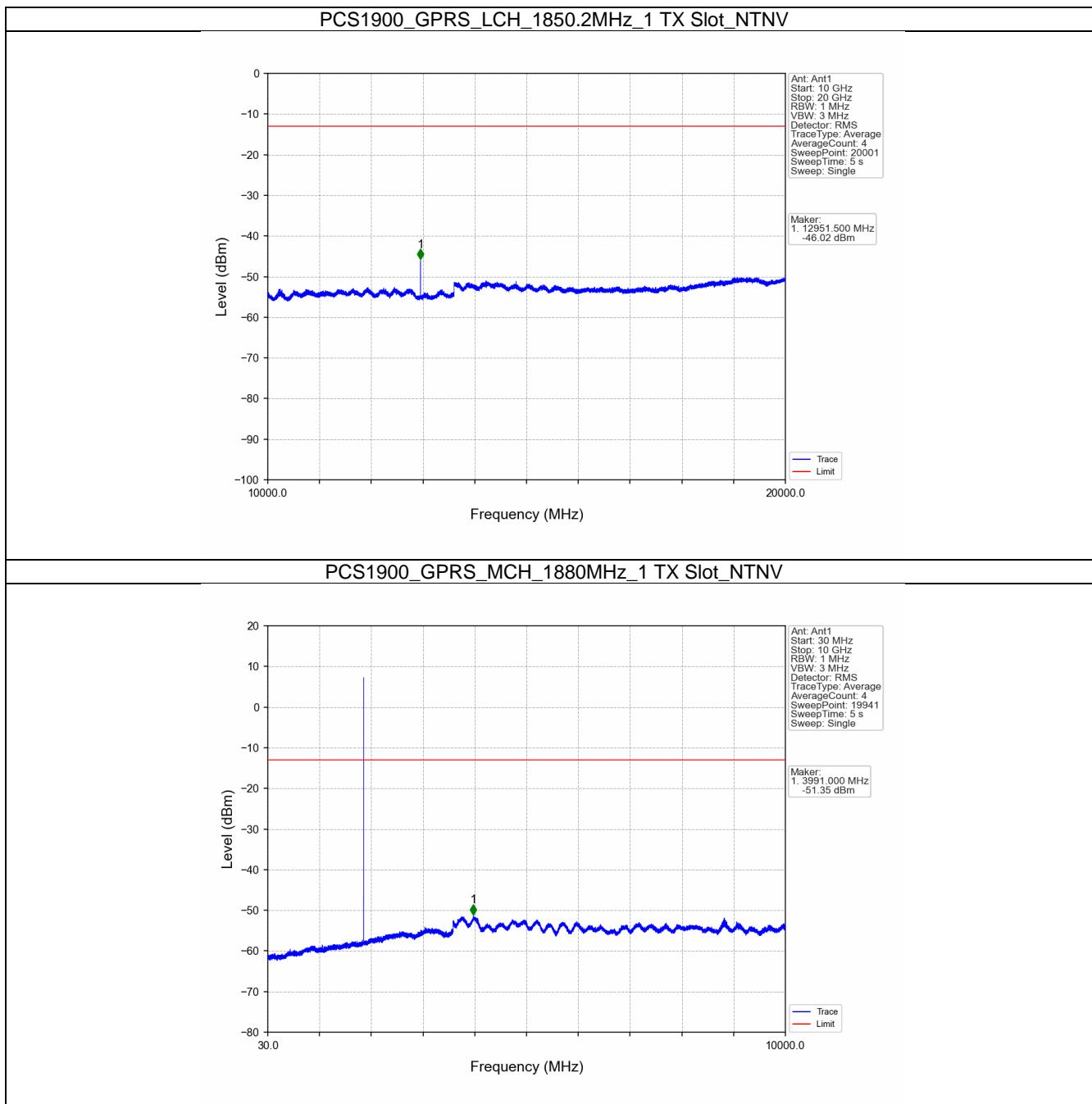
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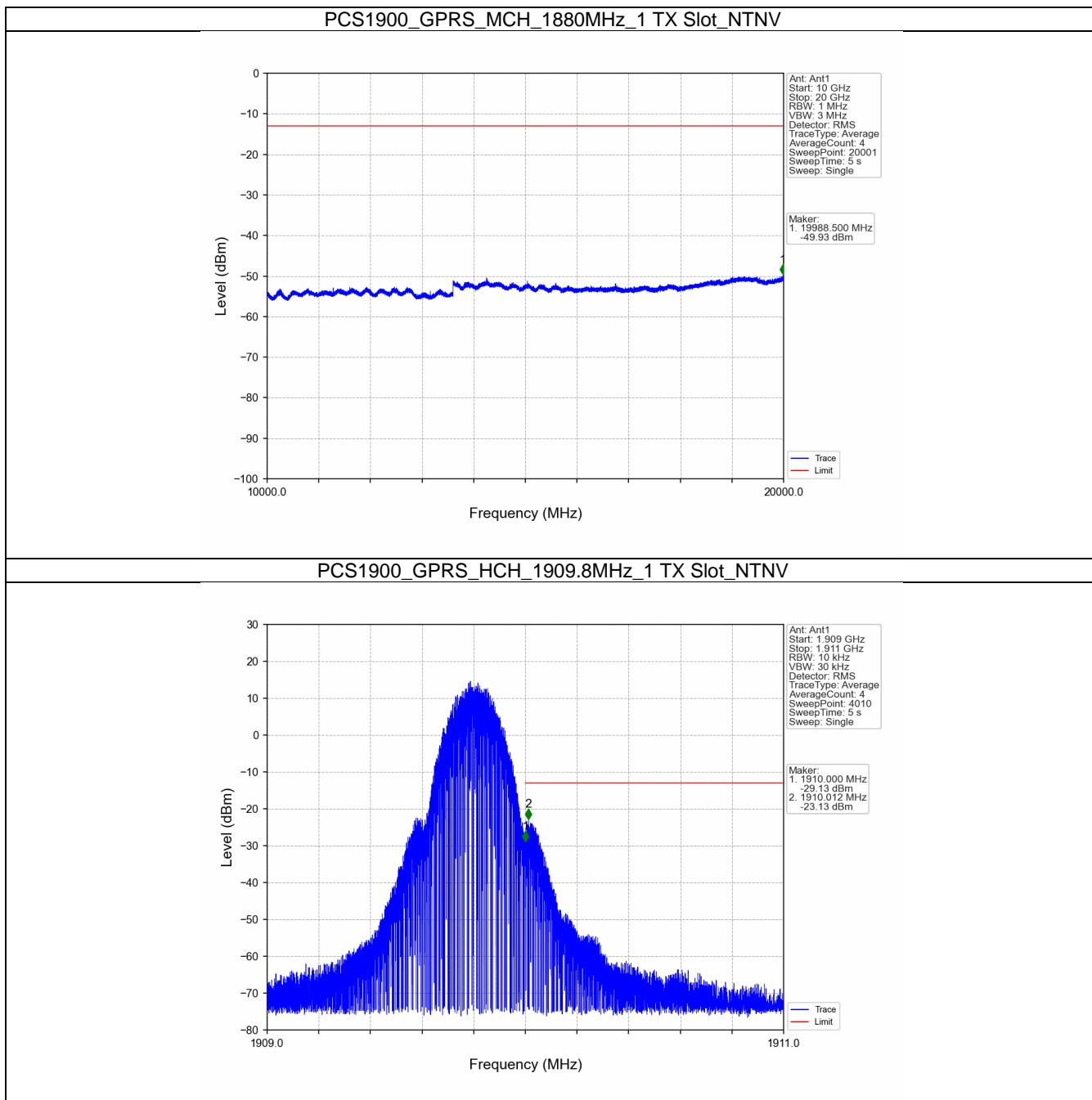
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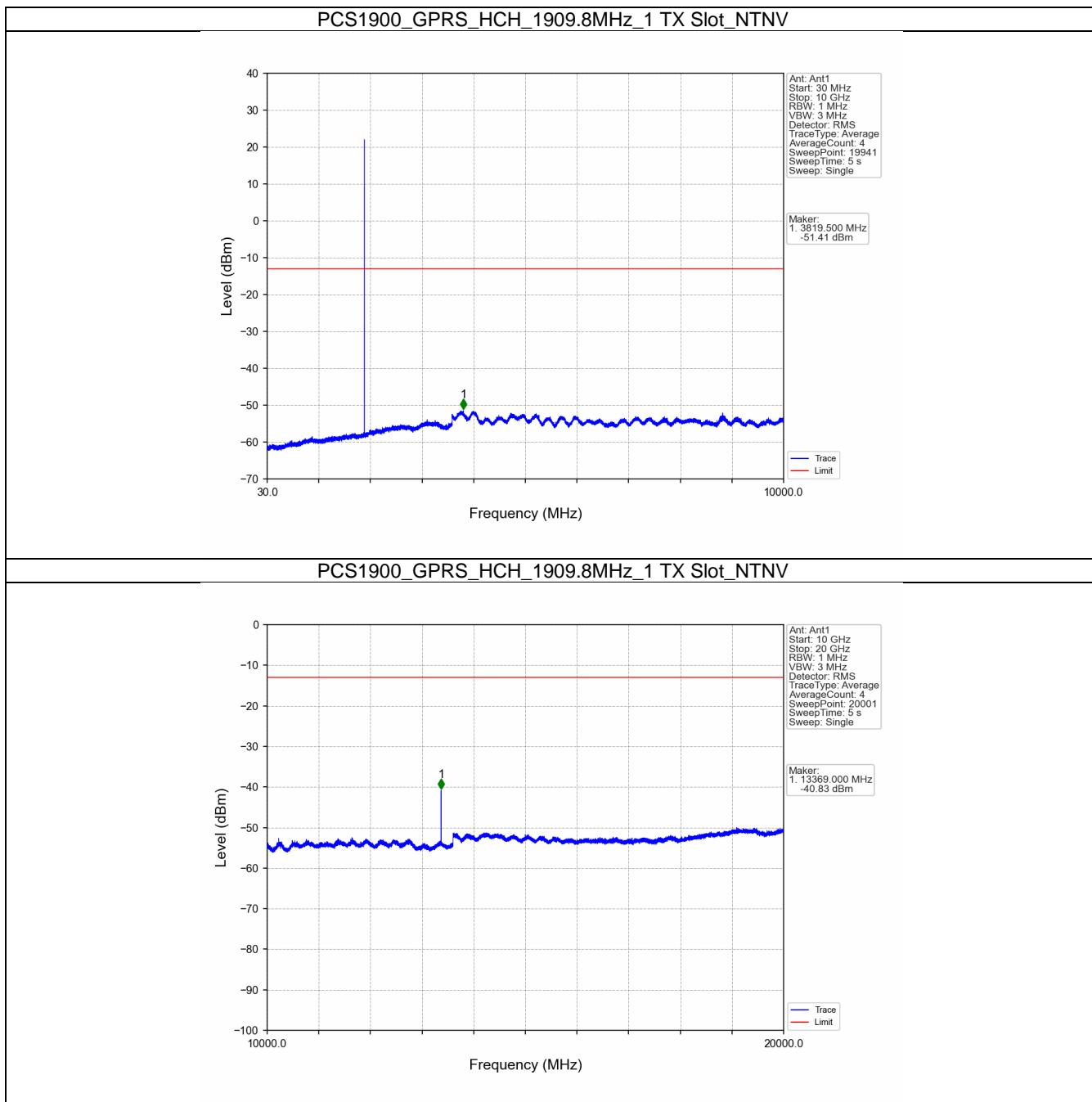
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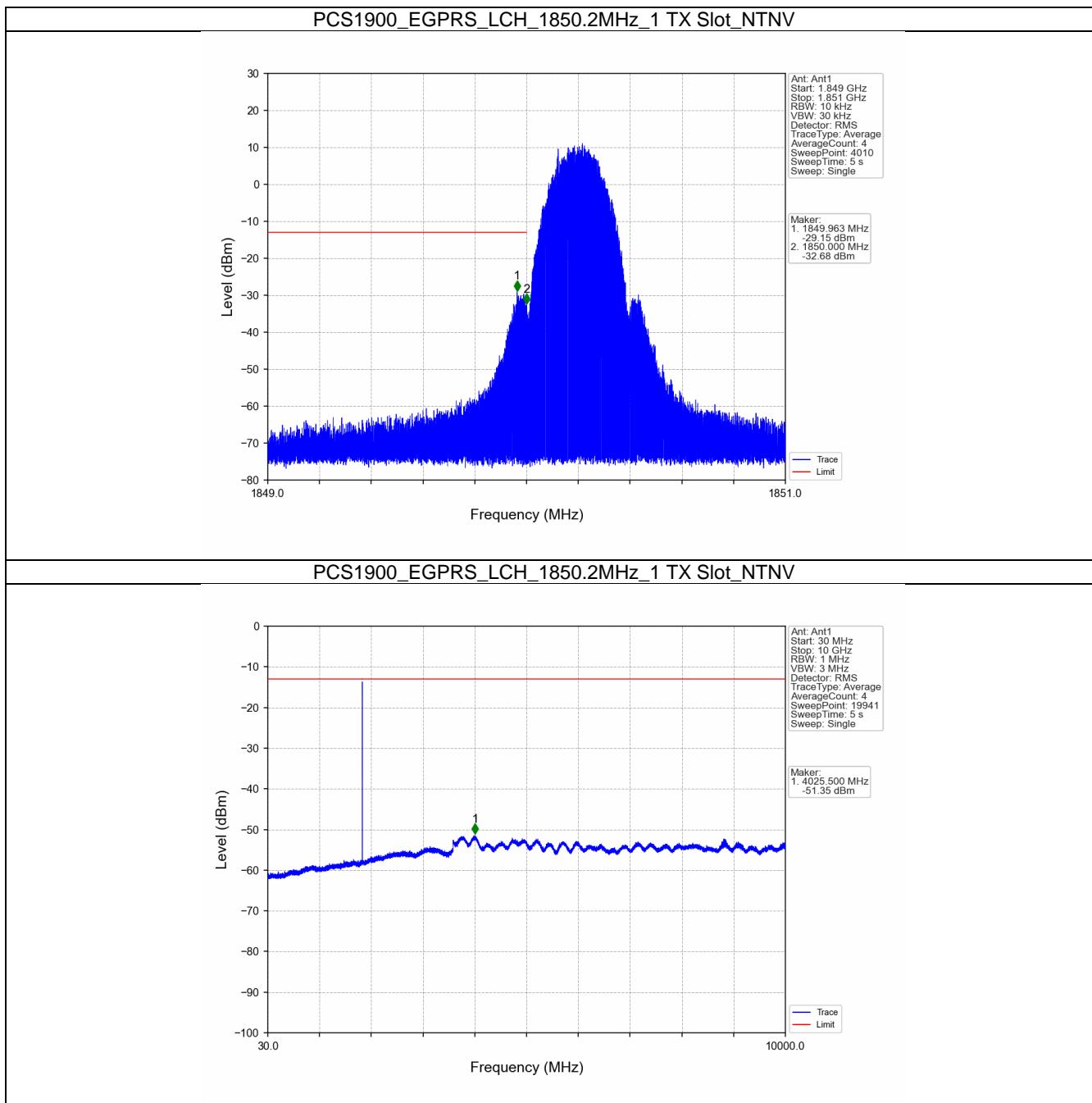
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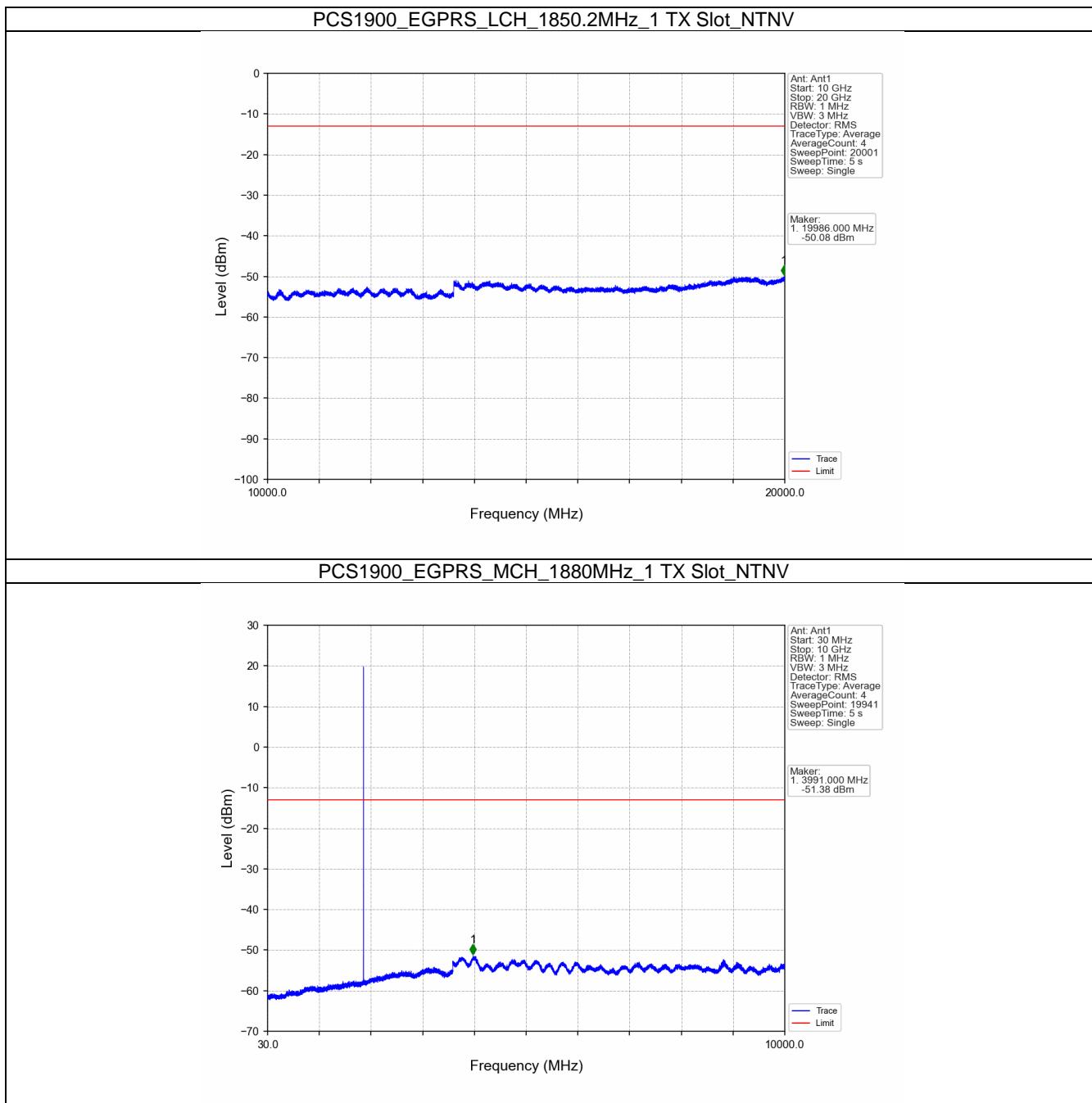
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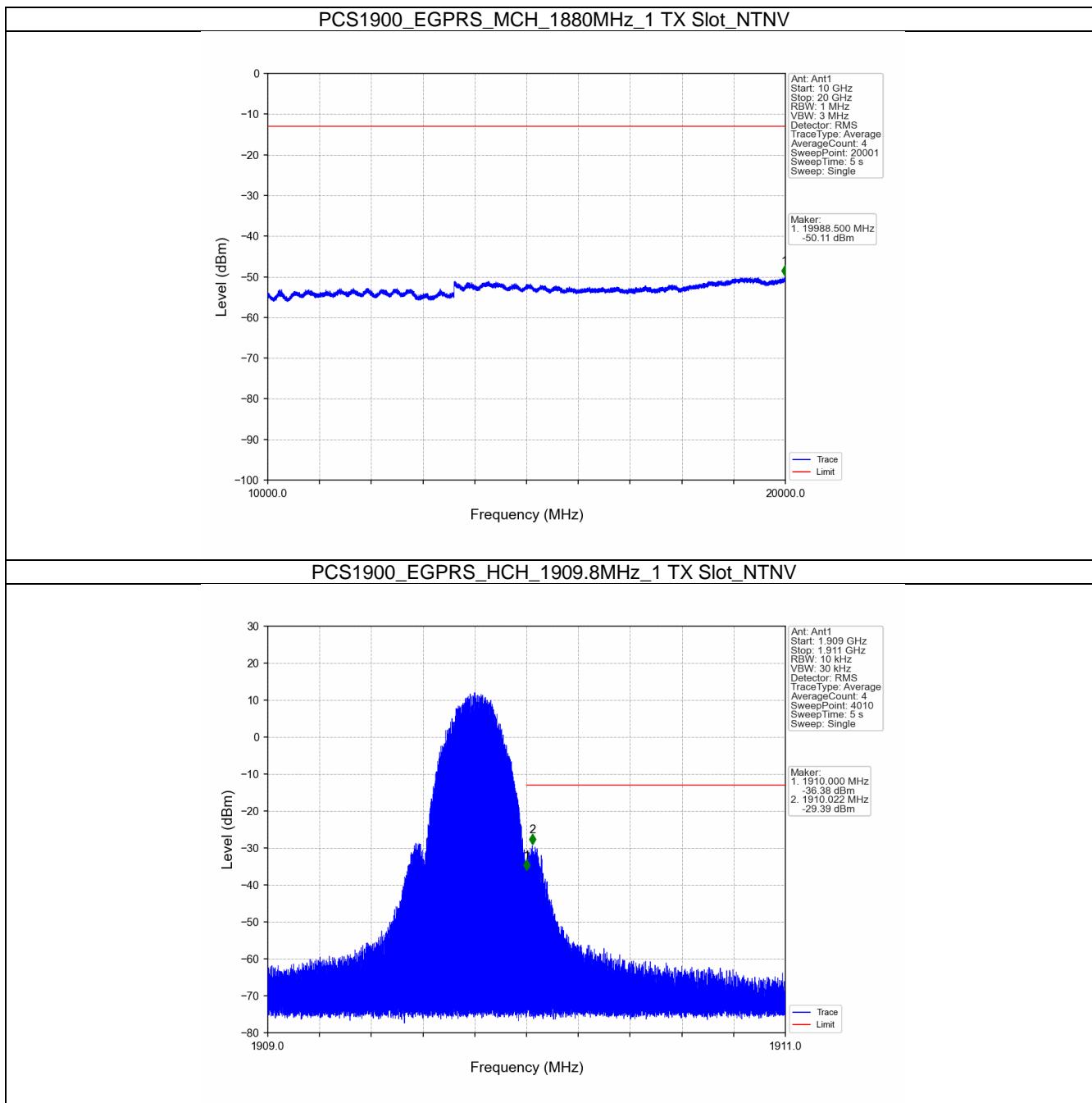
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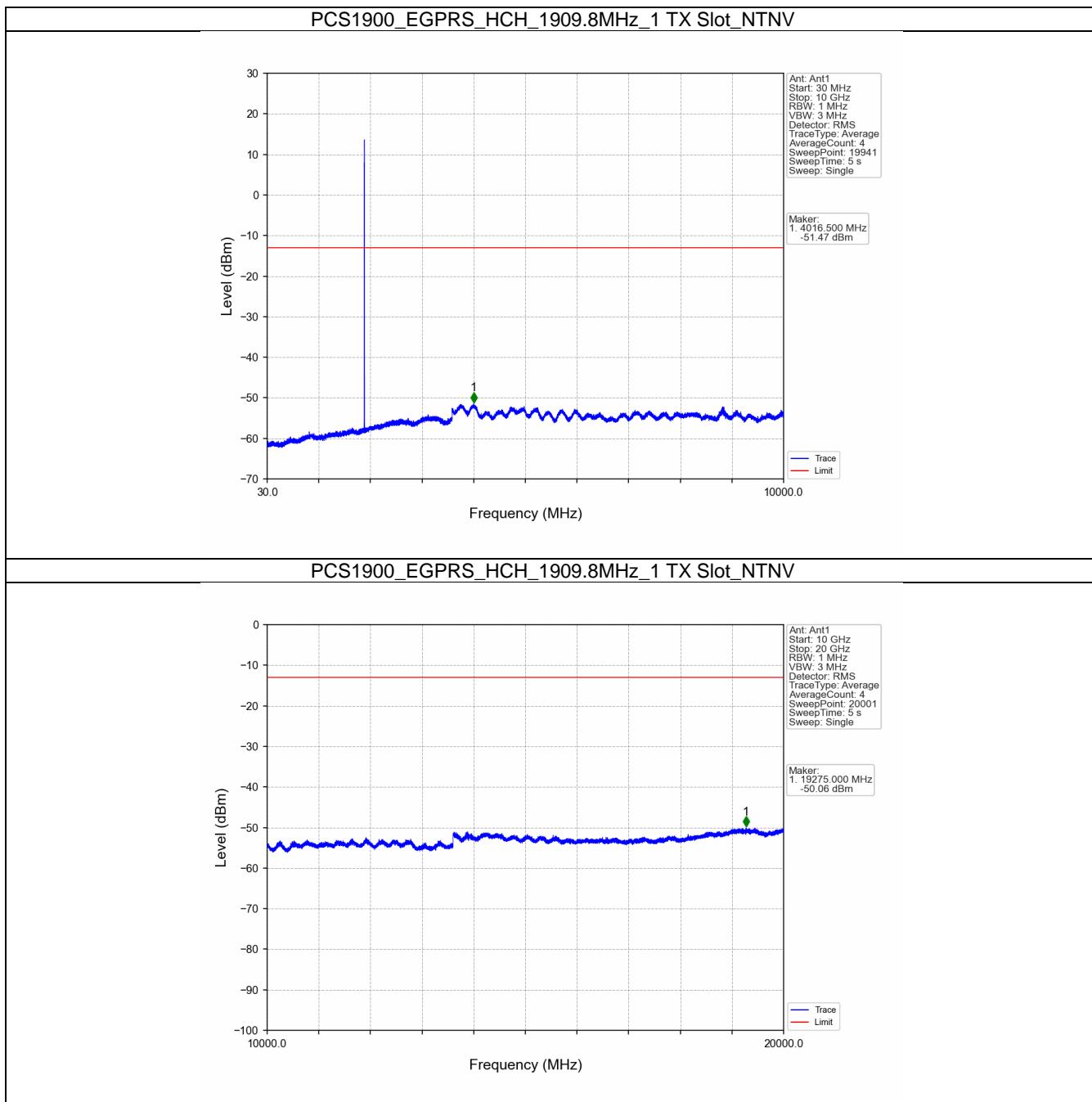
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