Appendix B.2

GSM 1900

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1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP ANT3

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	28.07	-1.70	26.37	<=33.00	Pass
			1880	28.38	-1.70	26.68	<=33.00	Pass
			1909.8	28.34	-1.70	26.64	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	24.11	-1.70	22.41	<=33.00	Pass
		2 TX Slots	1850.2	21.58	-1.70	19.88	<=33.00	Pass
		3 TX Slots	1850.2	19.61	-1.70	17.91	<=33.00	Pass
		4 TX Slots	1850.2	17.76	-1.70	16.06	<=33.00	Pass
		1 TX Slot	1880	24.37	-1.70	22.67	<=33.00	Pass
		2 TX Slots	1880	21.51	-1.70	19.81	<=33.00	Pass
		3 TX Slots	1880	19.57	-1.70	17.87	<=33.00	Pass
		4 TX Slots	1880	17.99	-1.70	16.29	<=33.00	Pass
		1 TX Slot	1909.8	25.71	-1.70	24.01	<=33.00	Pass
		2 TX Slots	1909.8	21.81	-1.70	20.11	<=33.00	Pass
		3 TX Slots	1909.8	19.78	-1.70	18.08	<=33.00	Pass
		4 TX Slots	1909.8	18.12	-1.70	16.42	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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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	3.5	20.583	0.0111	/	Pass
			3.91	8.157	0.0044	/	Pass
			4.35	8.624	0.0047	/	Pass
		-30	3.91	6.518	0.0035	/	Pass
		-20	3.91	8.035	0.0043	/	Pass
		-10	3.91	10.246	0.0055	/	Pass
		0	3.91	6.995	0.0038	/	Pass
		10	3.91	9.816	0.0053	/	Pass
		30	3.91	8.266	0.0045	/	Pass
		40	3.91	11.037	0.0060	/	Pass
		50	3.91	10.715	0.0058	/	Pass
	1880	20	3.5	14.037	0.0075	/	Pass
			3.91	10.261	0.0055	/	Pass
			4.35	8.851	0.0047	/	Pass
		-30	3.91	12.231	0.0065	/	Pass
		-20	3.91	9.705	0.0052	/	Pass
		-10	3.91	10.986	0.0058	/	Pass
		0	3.91	11.131	0.0059	/	Pass
		10	3.91	11.636	0.0062	/	Pass
		30	3.91	11.807	0.0063	/	Pass
		40	3.91	12.334	0.0066	/	Pass
		50	3.91	12.310	0.0065	/	Pass
	1909.8	20	3.5	30.681	0.0161	/	Pass
			3.91	27.348	0.0143	/	Pass
			4.35	38.019	0.0199	/	Pass
		-30	3.91	26.519	0.0139	/	Pass
		-20	3.91	26.923	0.0141	/	Pass
		-10	3.91	21.208	0.0111	/	Pass
		0	3.91	25.830	0.0135	/	Pass
		10	3.91	20.488	0.0107	/	Pass
		30	3.91	16.176	0.0085	/	Pass
		40	3.91	19.341	0.0101	/	Pass
		50	3.91	17.891	0.0094	/	Pass
EGPRS	1850.2	20	3.5	24.364	0.0132	/	Pass
			3.91	20.531	0.0111	/	Pass
			4.35	20.136	0.0109	/	Pass
		-30	3.91	27.676	0.0150	/	Pass
		-20	3.91	28.056	0.0152	/	Pass

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		-10	3.91	31.606	0.0171	/	Pass
		0	3.91	29.896	0.0162	/	Pass
		10	3.91	32.957	0.0178	/	Pass
		30	3.91	35.805	0.0194	/	Pass
		40	3.91	34.086	0.0184	/	Pass
		50	3.91	32.619	0.0176	/	Pass
	1880	20	3.5	31.879	0.0170	/	Pass
			3.91	32.129	0.0171	/	Pass
			4.35	31.047	0.0165	/	Pass
		-30	3.91	33.629	0.0179	/	Pass
		-20	3.91	34.982	0.0186	/	Pass
		-10	3.91	31.804	0.0169	/	Pass
		0	3.91	36.015	0.0192	/	Pass
		10	3.91	34.027	0.0181	/	Pass
		30	3.91	33.336	0.0177	/	Pass
		40	3.91	32.336	0.0172	/	Pass
		50	3.91	33.327	0.0177	/	Pass
	1909.8	20	3.5	32.111	0.0168	/	Pass
			3.91	29.196	0.0153	/	Pass
			4.35	29.937	0.0157	/	Pass
		-30	3.91	28.473	0.0149	/	Pass
		-20	3.91	26.731	0.0140	/	Pass
		-10	3.91	28.587	0.0150	/	Pass
		0	3.91	27.271	0.0143	/	Pass
		10	3.91	25.763	0.0135	/	Pass
		30	3.91	24.181	0.0127	/	Pass
		40	3.91	28.127	0.0147	/	Pass
		50	3.91	27.383	0.0143	/	Pass

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3. Field Strength of Spurious Radiation

Test Band = GSM 1900_ TM1
Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	48.93	-48.51	28.98	-65.86	-13.00	52.86	Horizontal
2	5550.6	43.50	-47.66	32.71	-66.71	-13.00	53.71	Horizontal
3	7400.8	41.83	-46.17	36.56	-63.04	-13.00	50.04	Horizontal
4	9251	40.32	-43.20	37.83	-60.32	-13.00	47.32	Horizontal
5	11101.2	36.62	-40.36	39.38	-59.62	-13.00	46.62	Horizontal
6	12951.4	36.42	-39.41	38.63	-59.62	-13.00	46.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	49.38	-48.51	28.98	-65.41	-13.00	52.41	Vertical
2	5550.6	46.17	-47.66	32.71	-64.04	-13.00	51.04	Vertical
3	7400.8	41.83	-46.17	36.56	-63.04	-13.00	50.04	Vertical
4	9251	40.95	-43.20	37.83	-59.69	-13.00	46.69	Vertical
5	11101.2	36.82	-40.36	39.38	-59.42	-13.00	46.42	Vertical
6	12951.4	35.90	-39.41	38.63	-60.14	-13.00	47.14	Vertical

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Test Band = GSM 1900_ TM1
Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	49.92	-48.31	29.06	-64.59	-13.00	51.59	Horizontal
2	5640	43.36	-47.62	32.73	-66.79	-13.00	53.79	Horizontal
3	7520	40.08	-45.85	36.78	-64.25	-13.00	51.25	Horizontal
4	9400	39.28	-43.05	37.96	-61.07	-13.00	48.07	Horizontal
5	11280	37.32	-40.44	39.34	-59.03	-13.00	46.03	Horizontal
6	13160	35.81	-38.58	38.97	-59.06	-13.00	46.06	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	49.19	-48.31	29.06	-65.32	-13.00	52.32	Vertical
2	5640	44.28	-47.62	32.73	-65.87	-13.00	52.87	Vertical
3	7520	40.74	-45.85	36.78	-63.59	-13.00	50.59	Vertical
4	9400	38.94	-43.05	37.96	-61.41	-13.00	48.41	Vertical
5	11280	36.95	-40.44	39.34	-59.40	-13.00	46.40	Vertical
6	13160	35.16	-38.58	38.97	-59.71	-13.00	46.71	Vertical

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Test Band = GSM 1900_ TM1
Test Channel = High Channel_ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	44.94	-48.20	29.15	-69.37	-13.00	56.37	Horizontal
2	5729.4	43.20	-47.54	32.75	-66.85	-13.00	53.85	Horizontal
3	7639.2	40.82	-44.82	36.63	-62.63	-13.00	49.63	Horizontal
4	9549	39.03	-42.31	38.09	-60.44	-13.00	47.44	Horizontal
5	11458.8	36.59	-40.07	39.31	-59.43	-13.00	46.43	Horizontal
6	13368.6	35.61	-39.15	39.45	-59.35	-13.00	46.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	46.33	-48.20	29.15	-67.98	-13.00	54.98	Vertical
2	5729.4	43.97	-47.54	32.75	-66.08	-13.00	53.08	Vertical
3	7639.2	41.13	-44.82	36.63	-62.32	-13.00	49.32	Vertical
4	9549	39.16	-42.31	38.09	-60.31	-13.00	47.31	Vertical
5	11458.8	36.90	-40.07	39.31	-59.12	-13.00	46.12	Vertical
6	13368.6	35.17	-39.15	39.45	-59.79	-13.00	46.79	Vertical

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit – Level
2) All antennas of RSE are tested, and only the worst data is presented.

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4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.246	/	Pass
			1880	0.246	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.252	/	Pass
			1880	0.245	/	Pass
			1909.8	0.240	/	Pass

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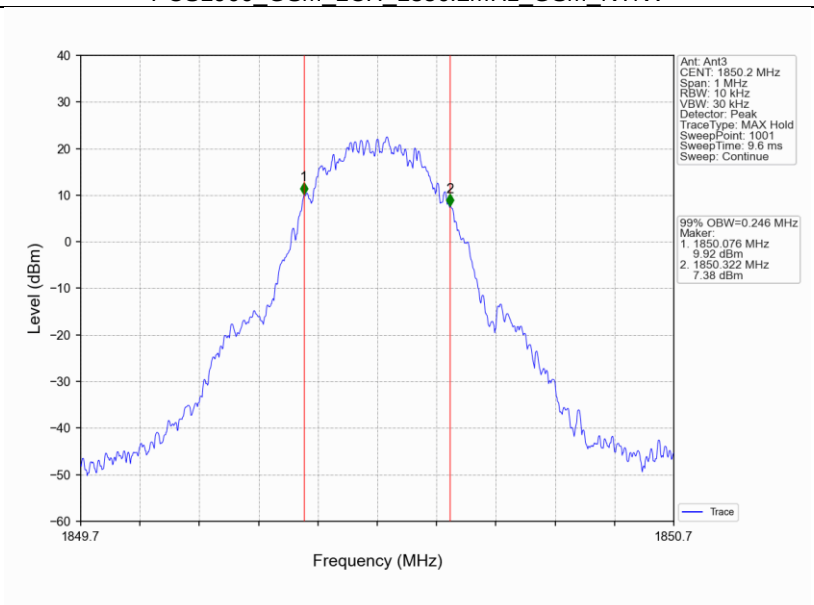
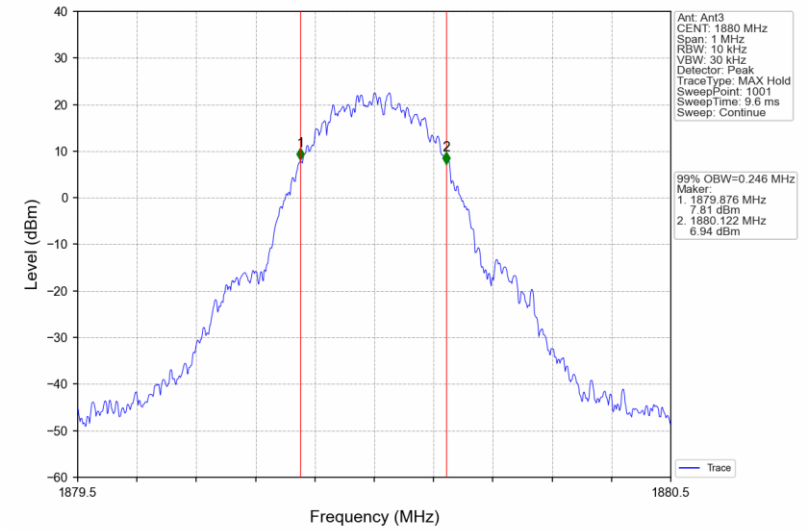
4.1.2 Test Graph

PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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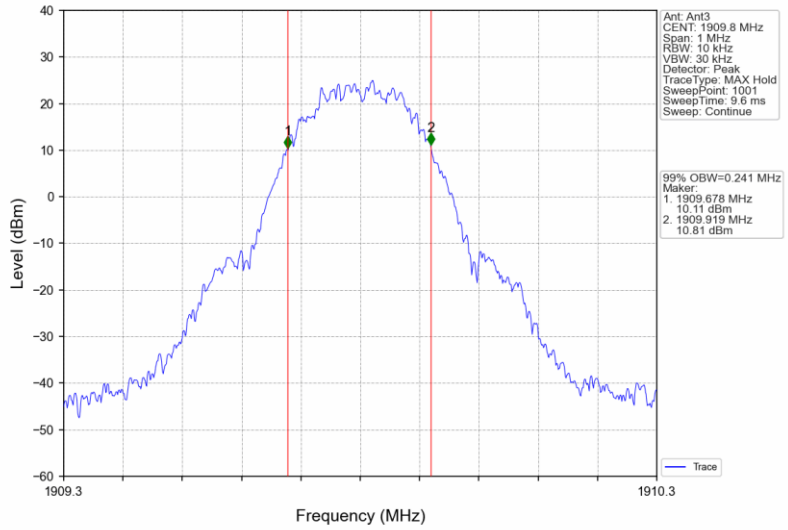
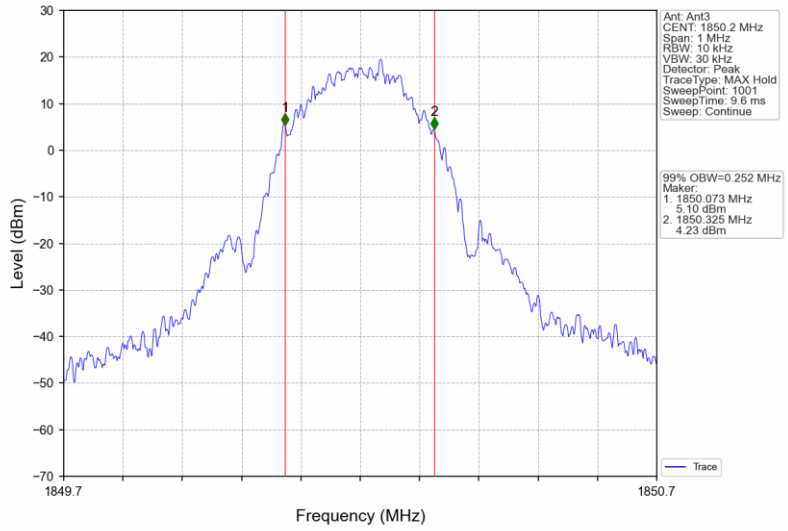
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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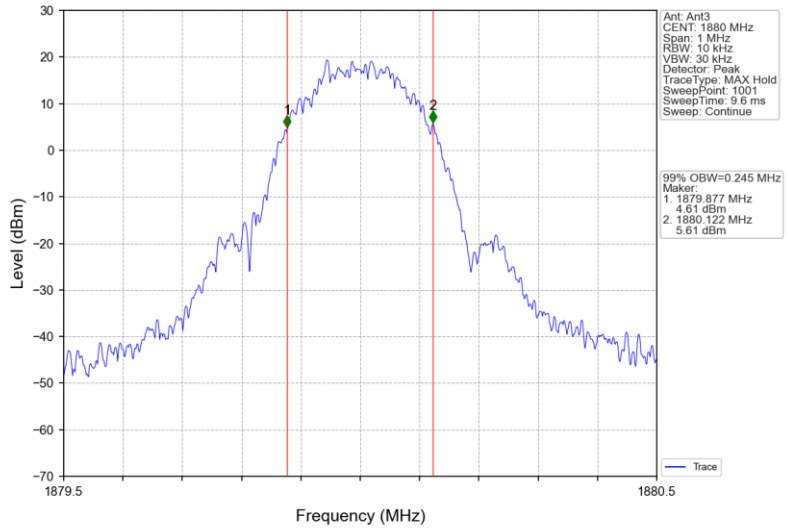
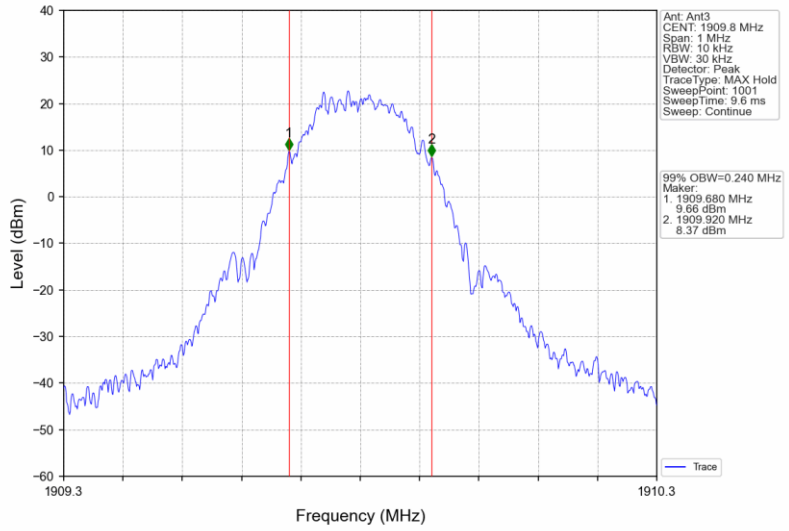
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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4.2 PCS1900_XDB

4.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.314	/	Pass
			1880	0.321	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.310	/	Pass
			1909.8	0.308	/	Pass

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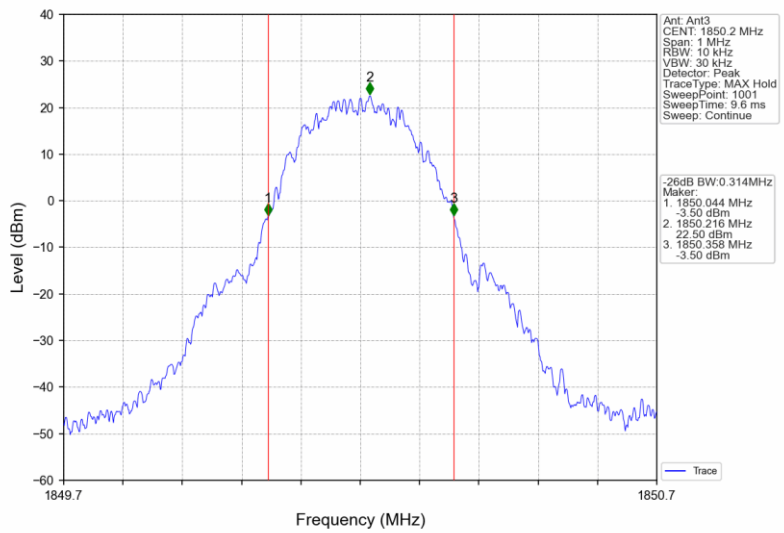
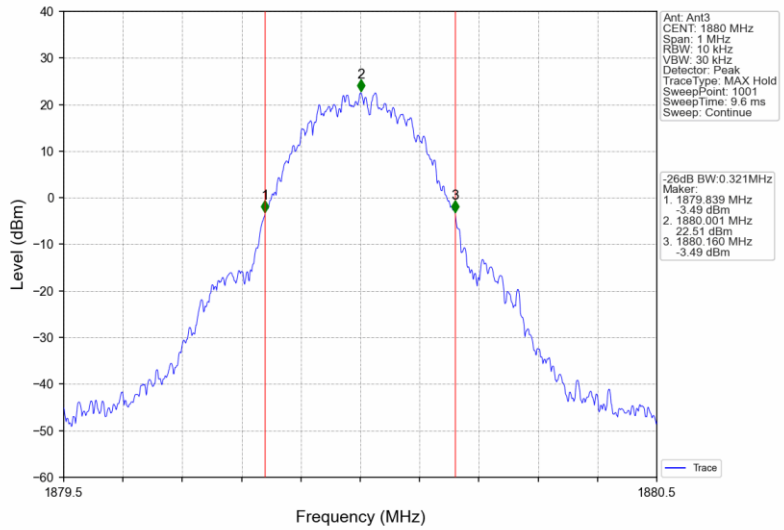
4.2.2 Test Graph

PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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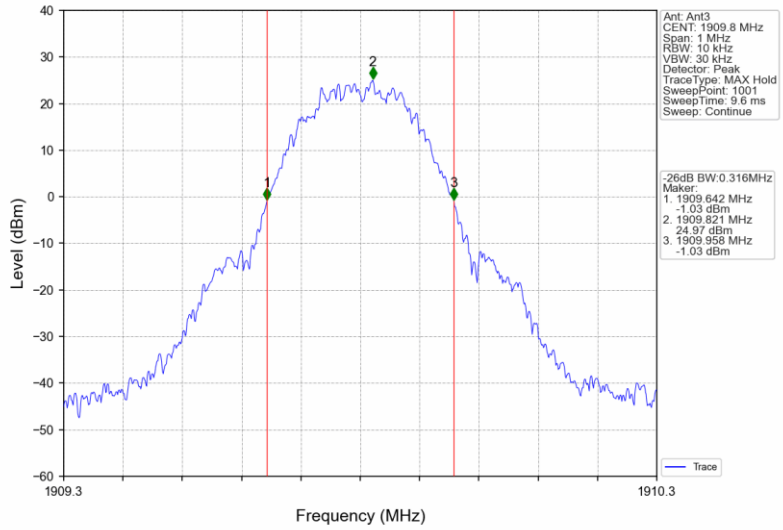
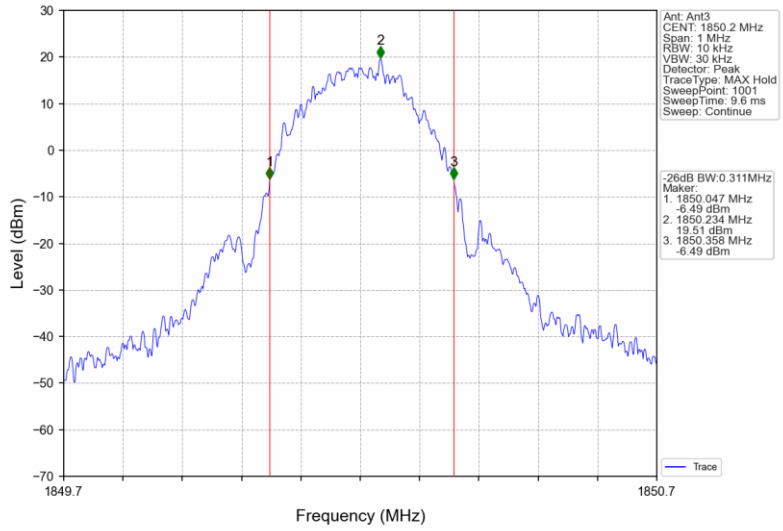
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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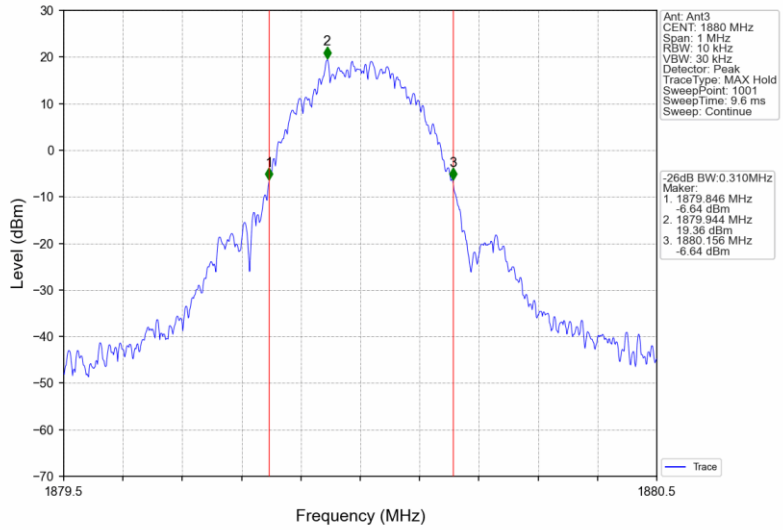
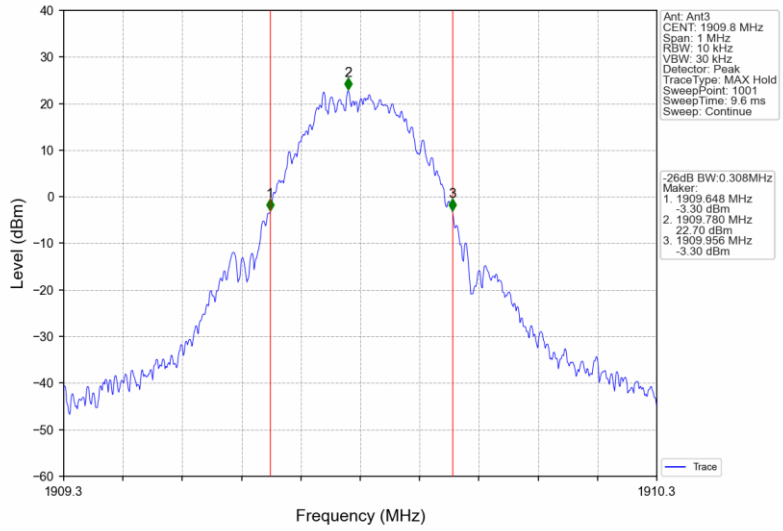
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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5. Peak-Average Ratio

5.1 PCS1900

5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.84	<=13	Pass
			1880	10.24	<=13	Pass
			1909.8	10.32	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.61	<=13	Pass
			1880	7.60	<=13	Pass
			1909.8	7.58	<=13	Pass

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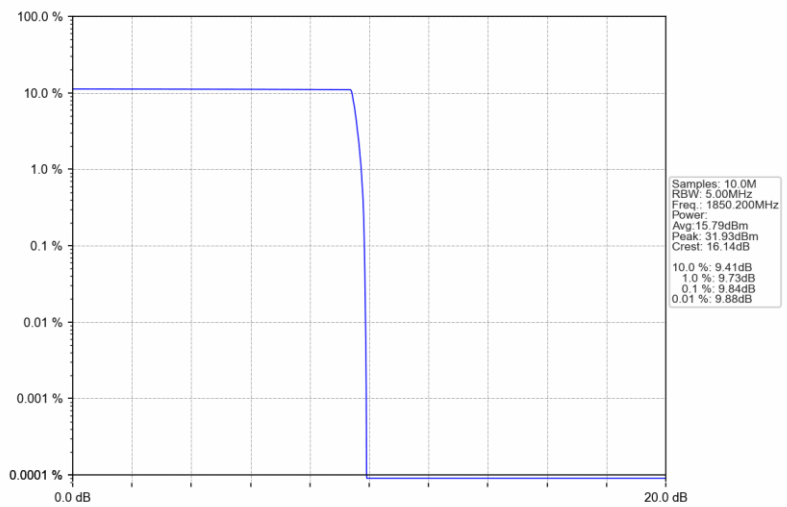
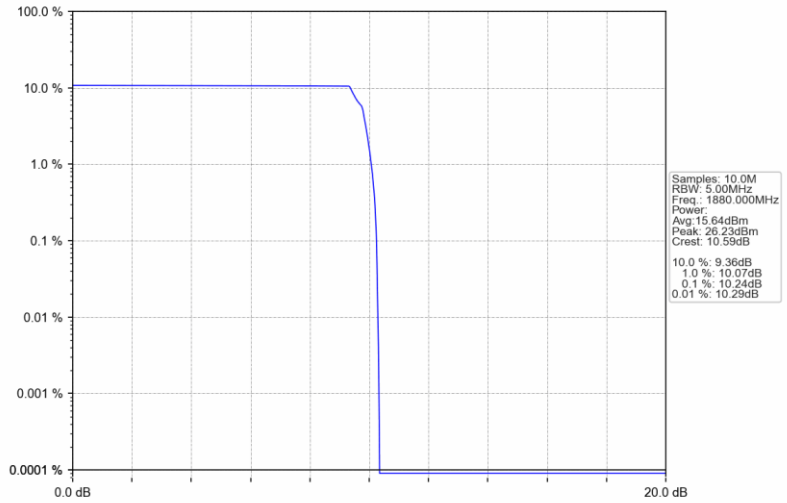
5.1.2 Test Graph

PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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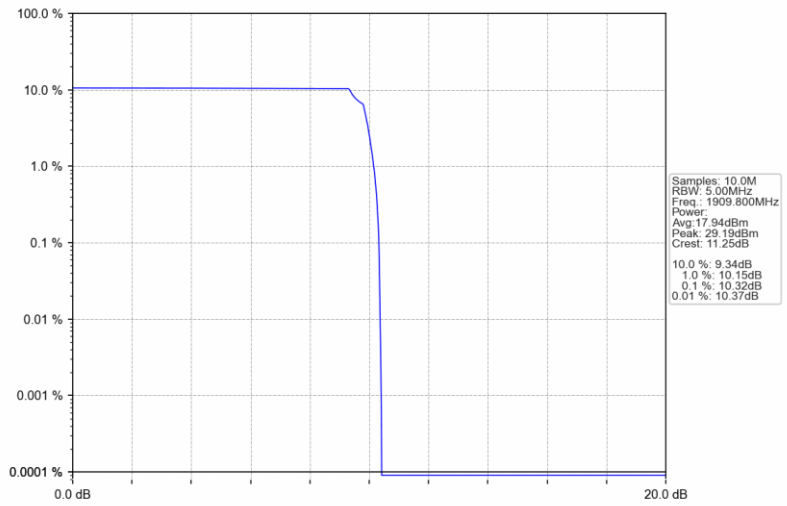
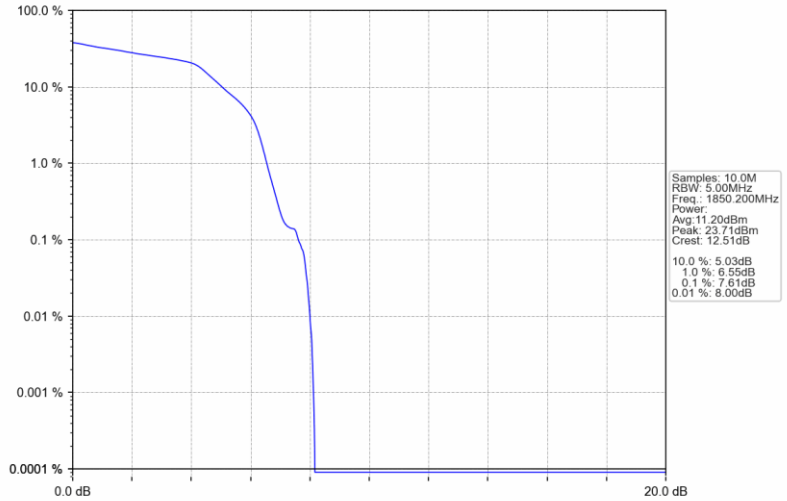
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



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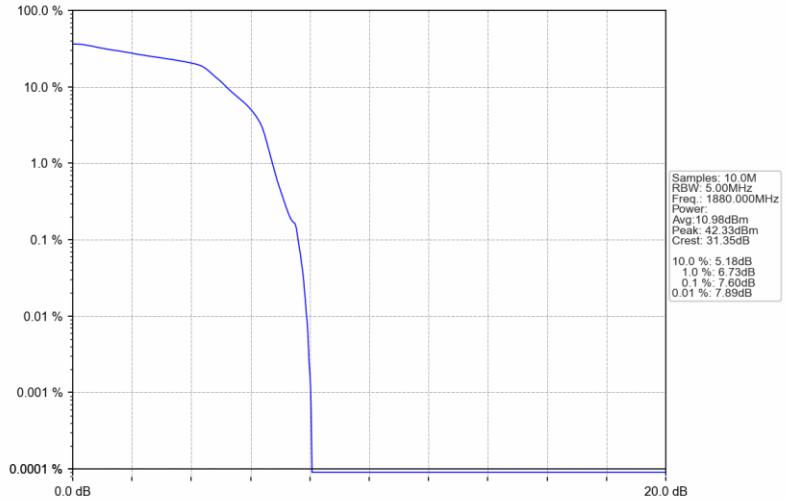
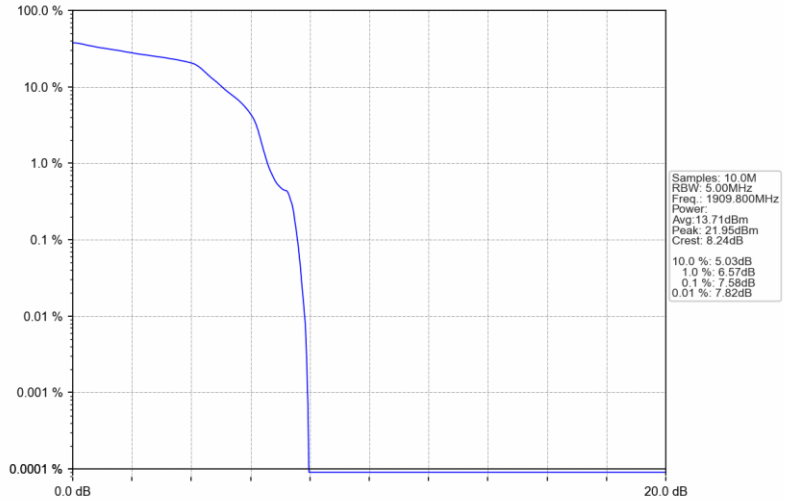
PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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6. Spurious Emission & Band Edges

6.1 PCS1900

6.1.1 Test Result

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
	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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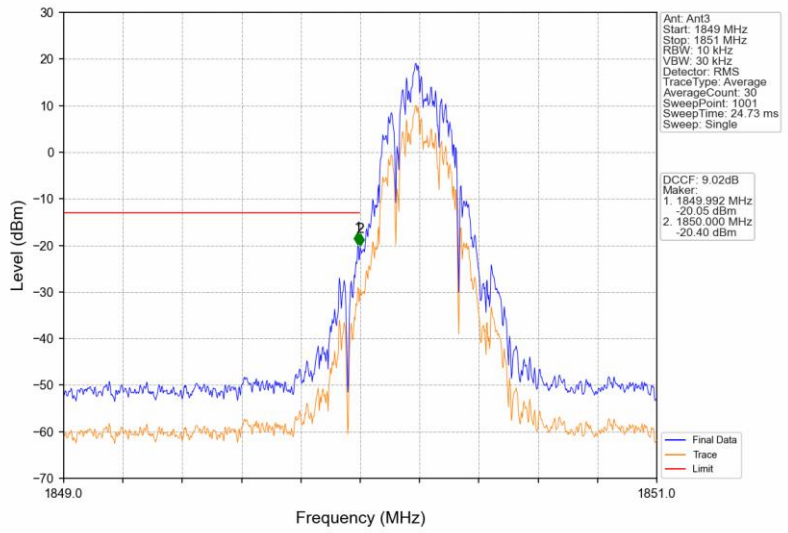
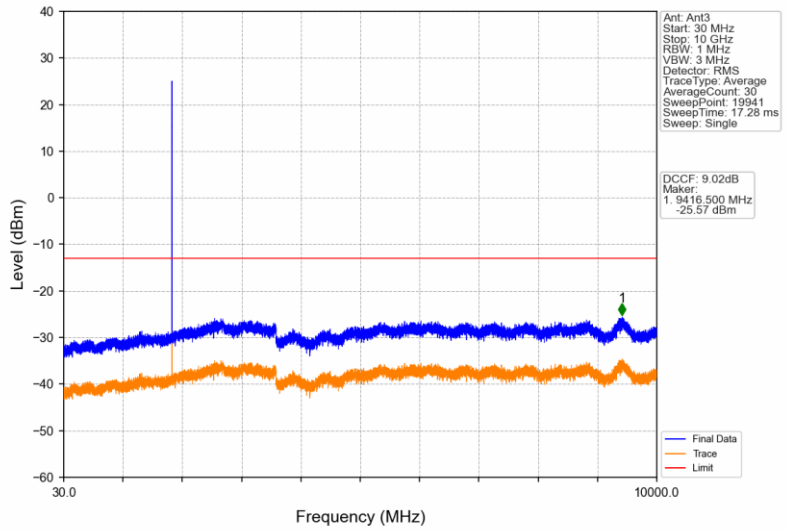
6.1.2 Test Graph

PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



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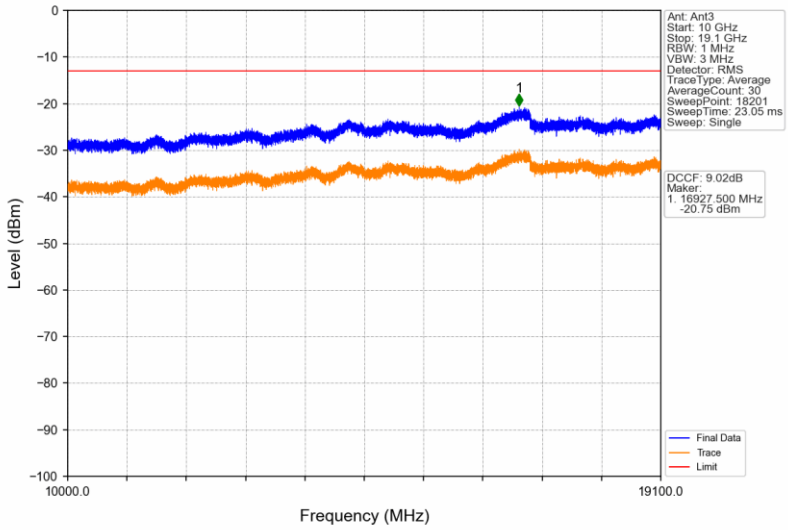
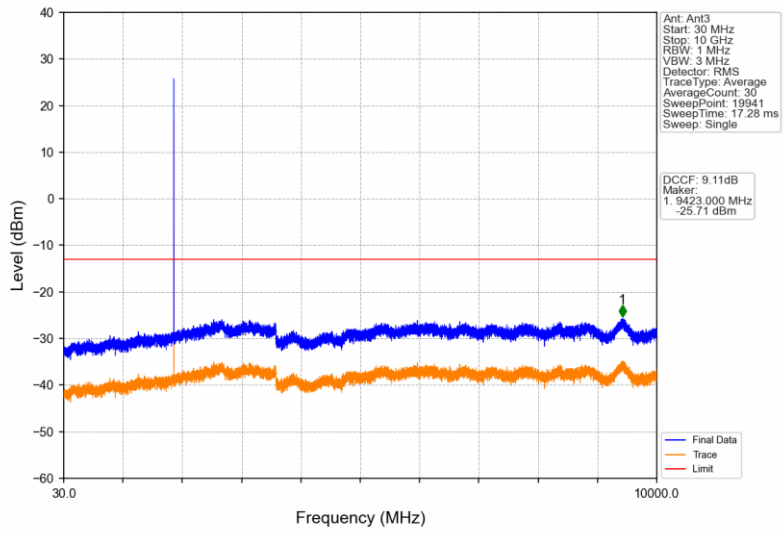
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



PCS1900_GSM_MCH_1880MHz_GSM_NTNV



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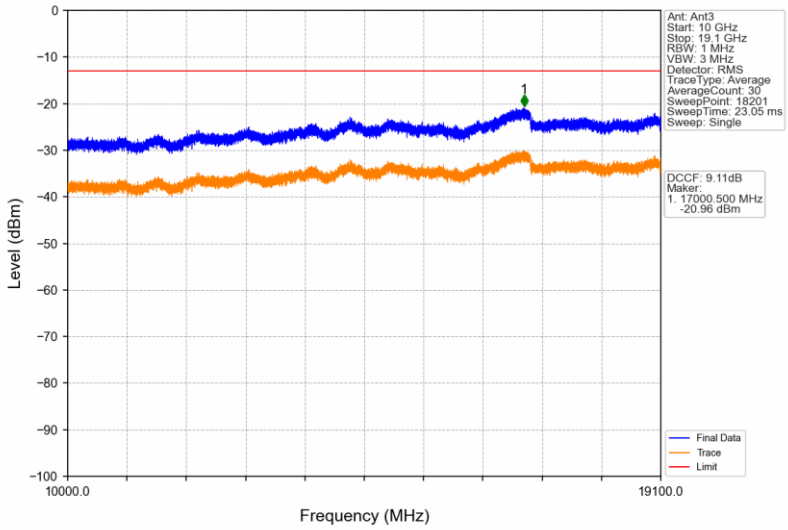
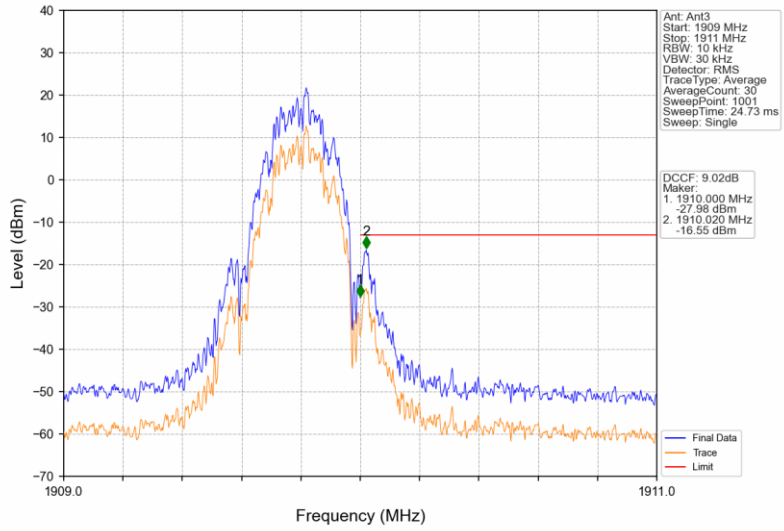
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



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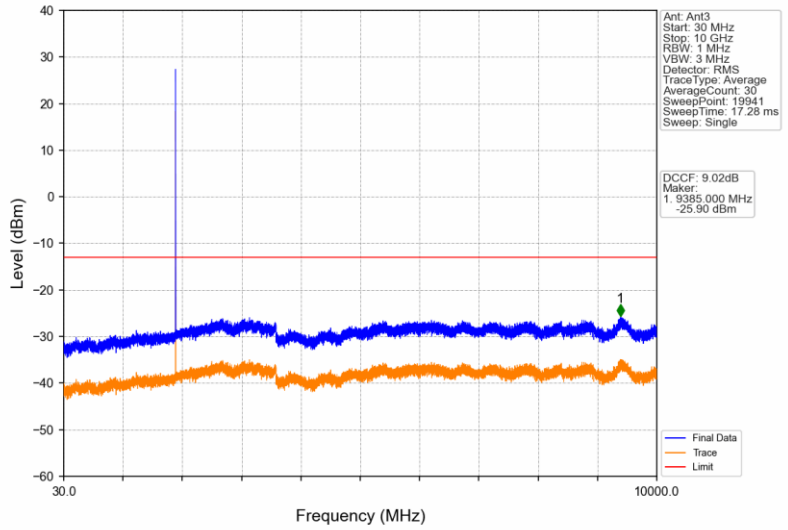
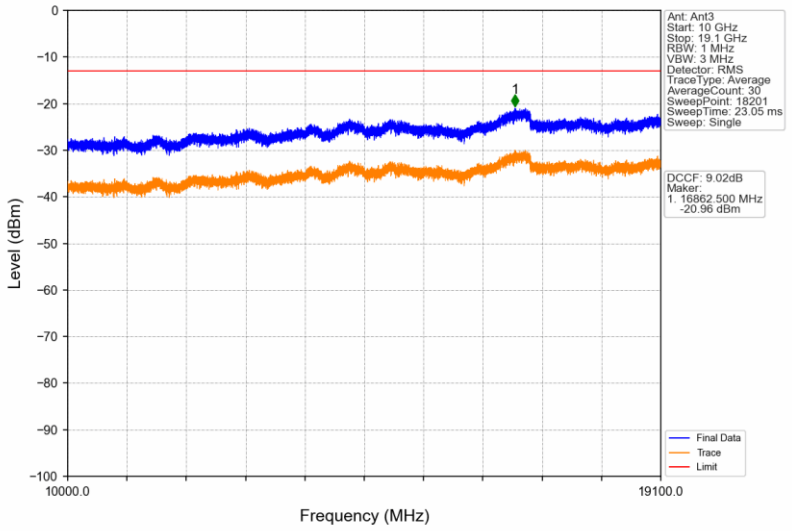
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



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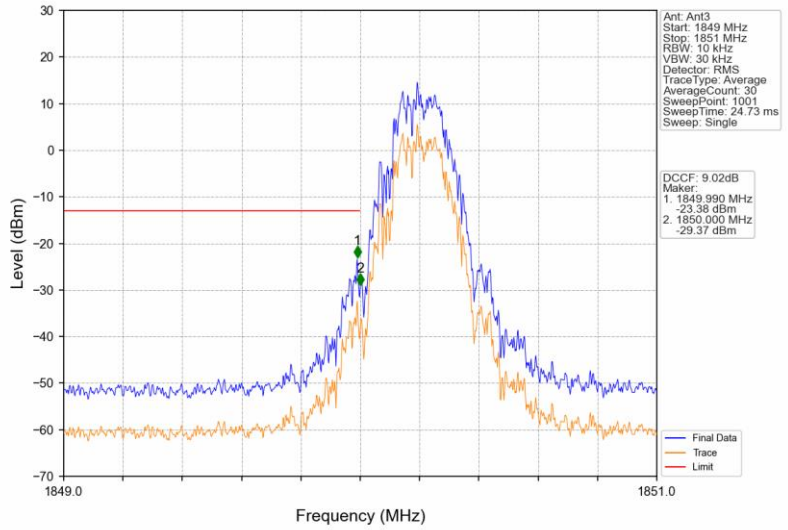
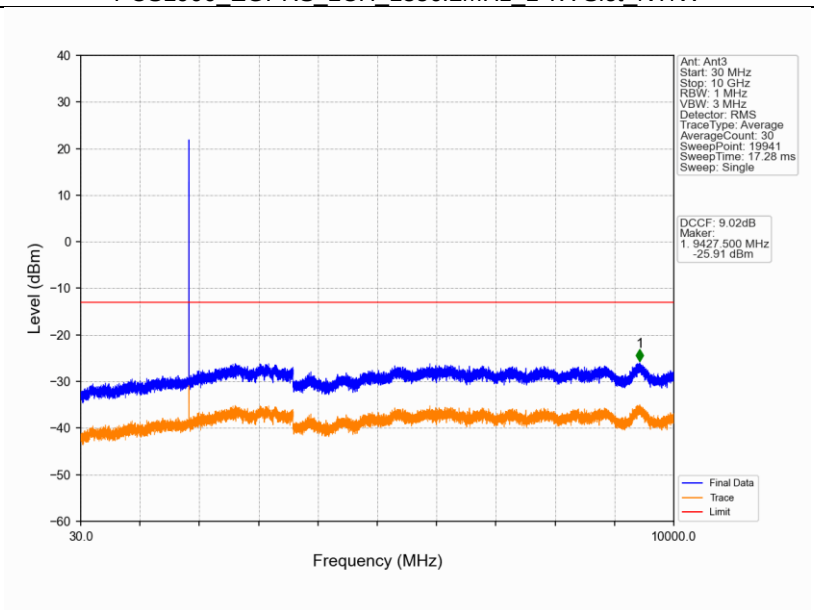


PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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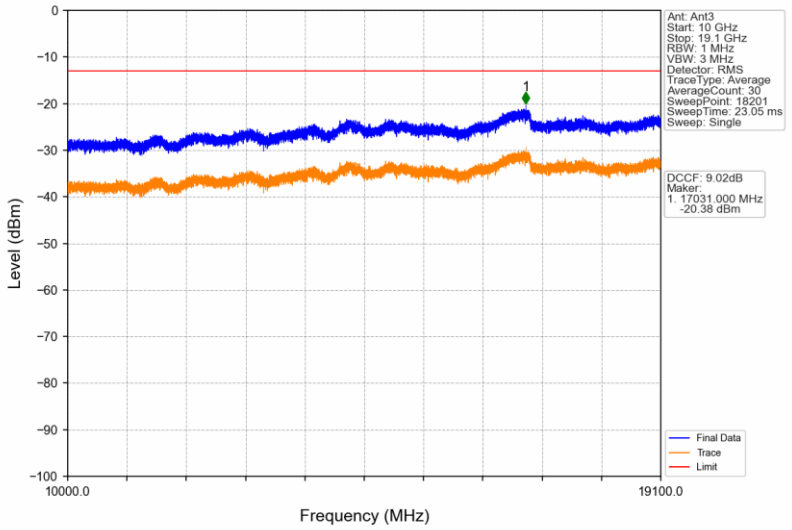
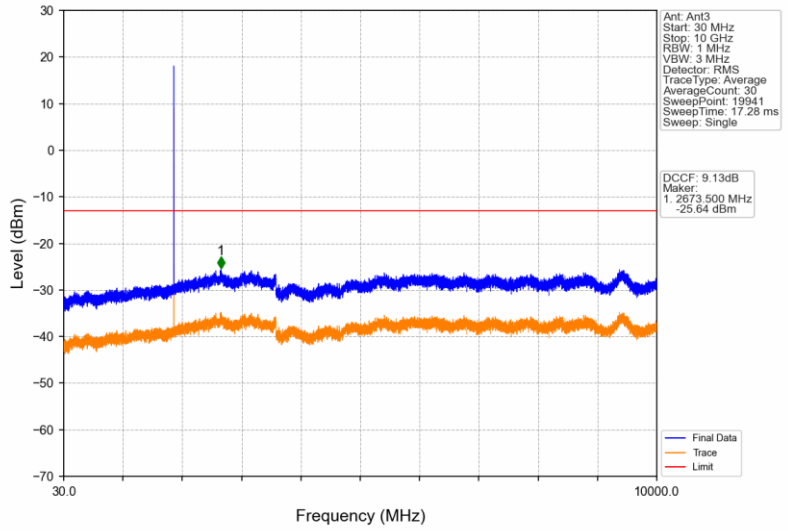


PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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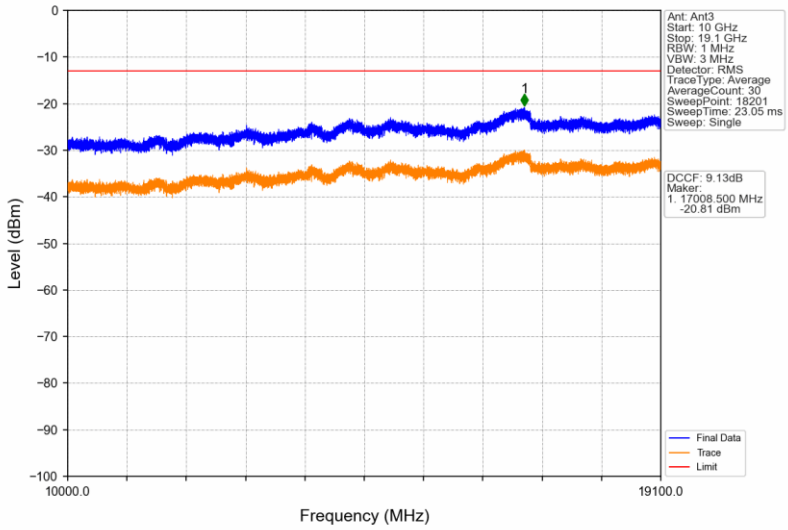
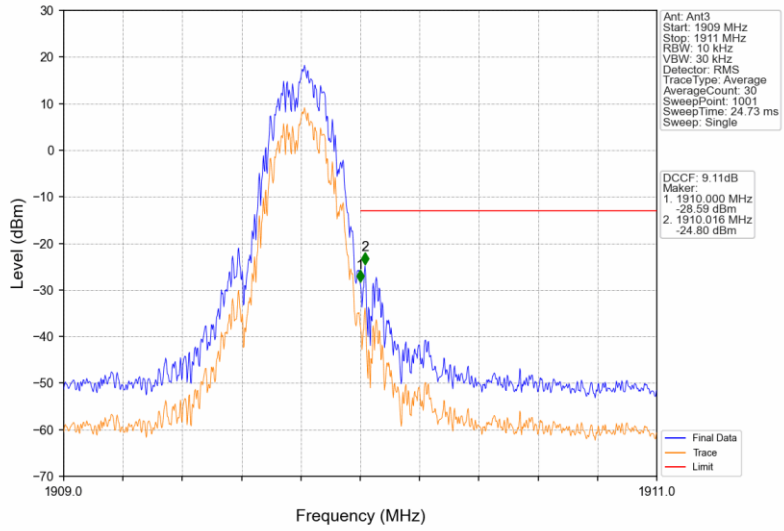


PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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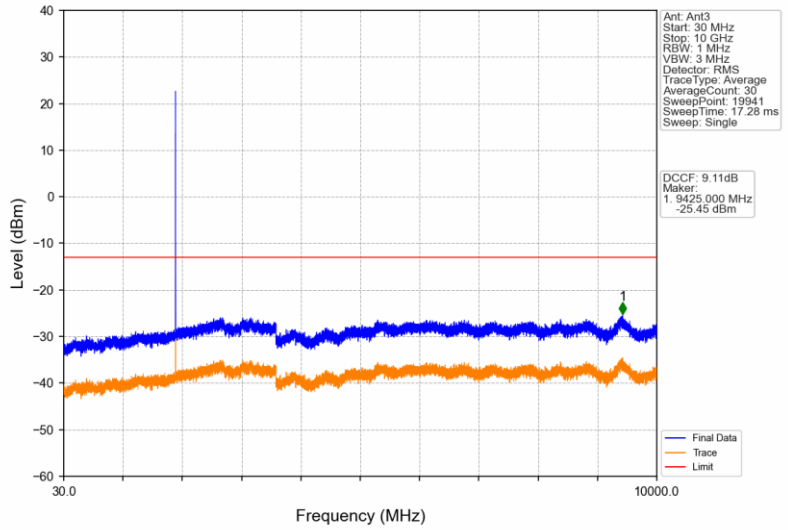

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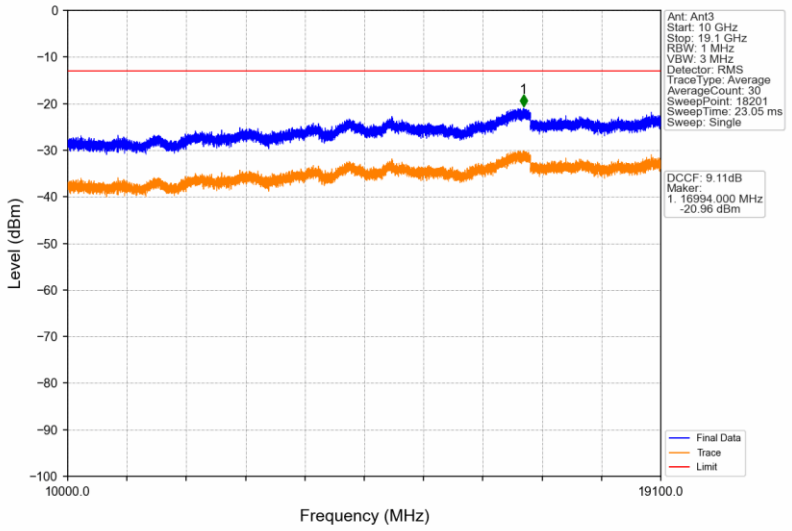

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