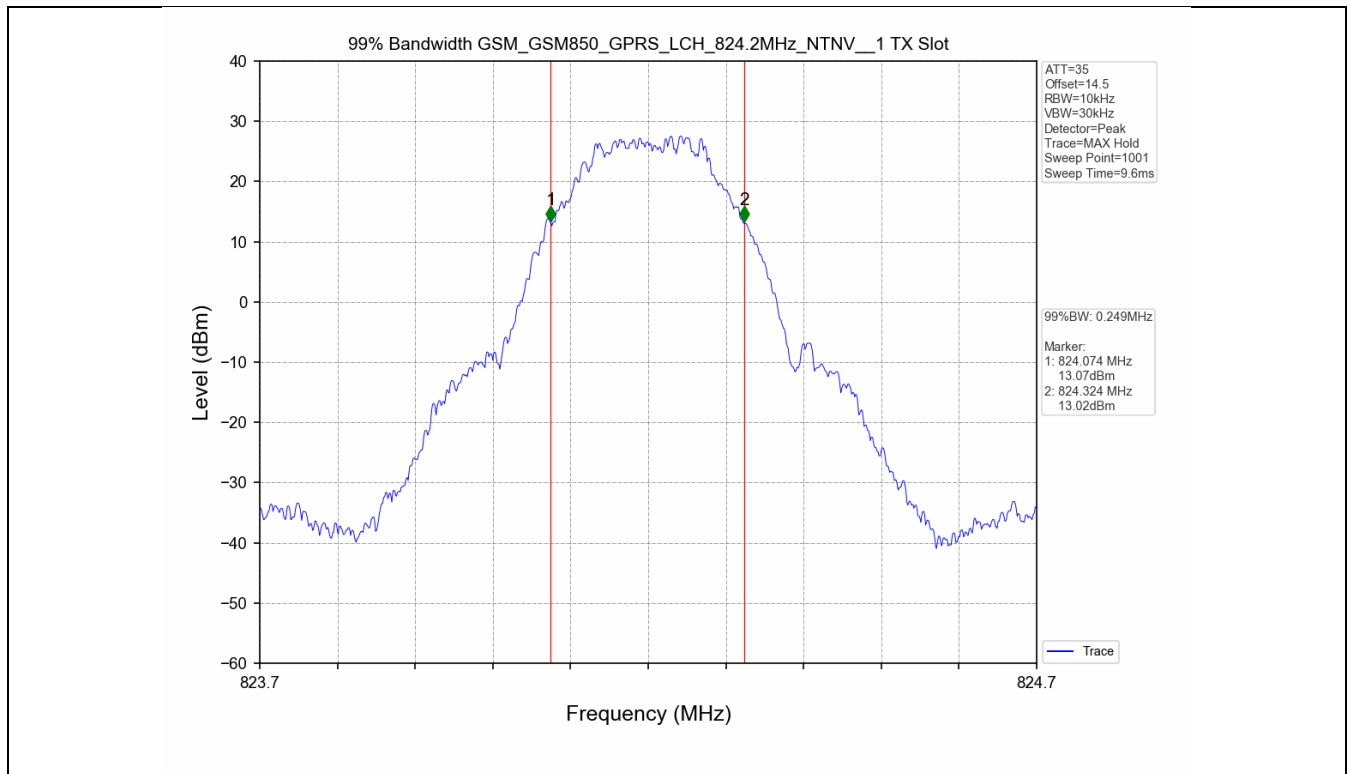


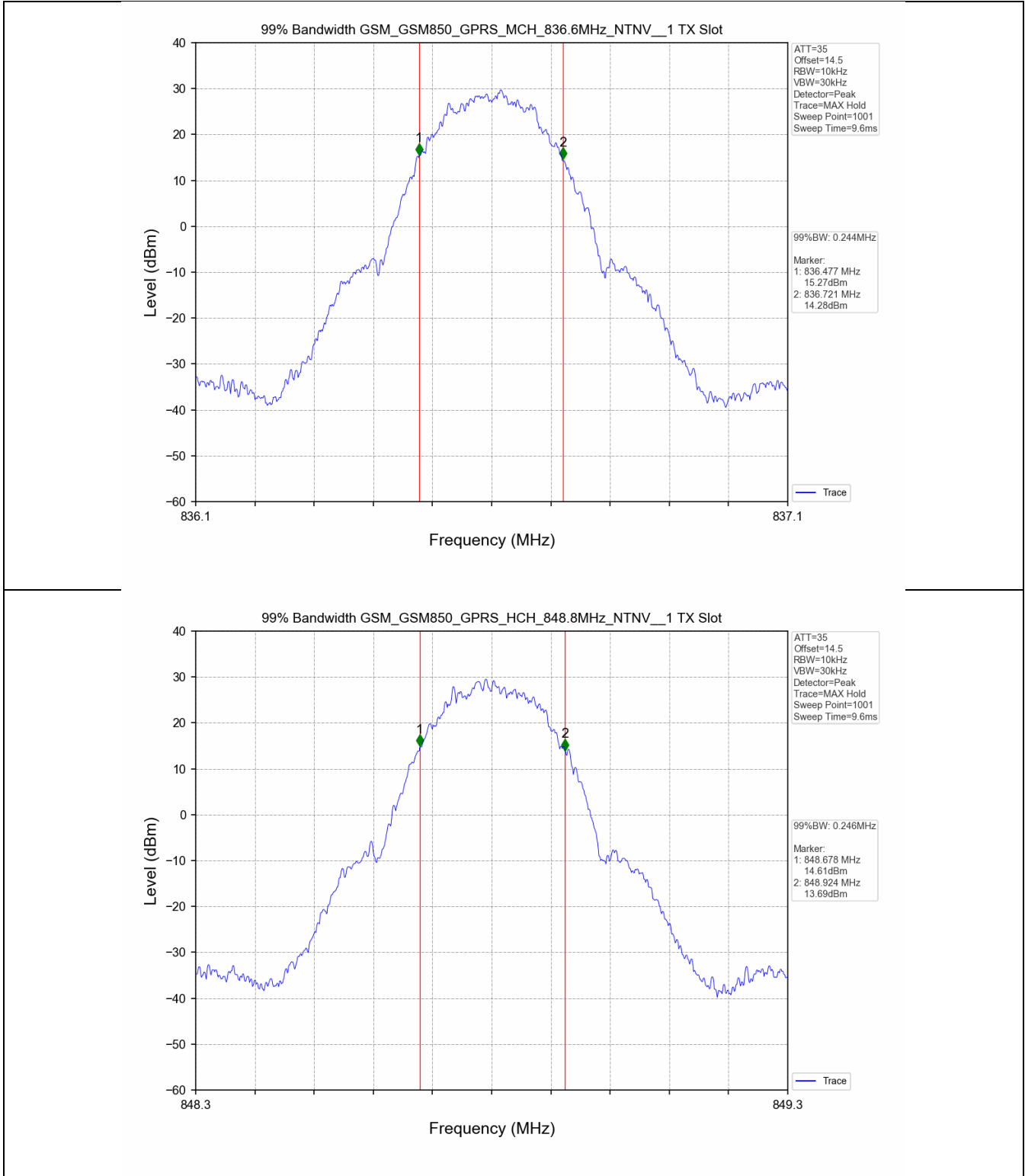
Appendix E for KSEM210700112905

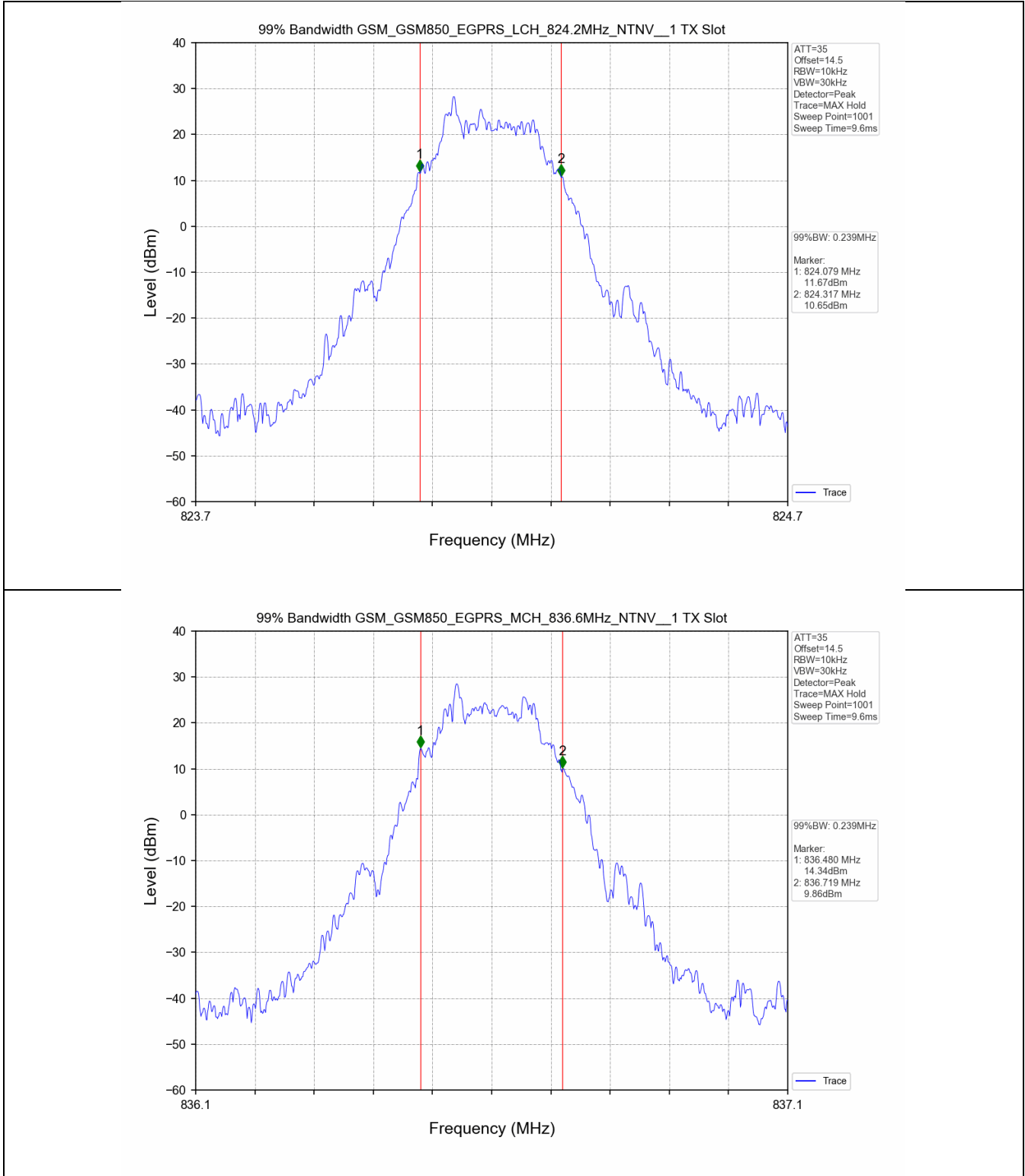
1. 99% & 26dB Bandwidth

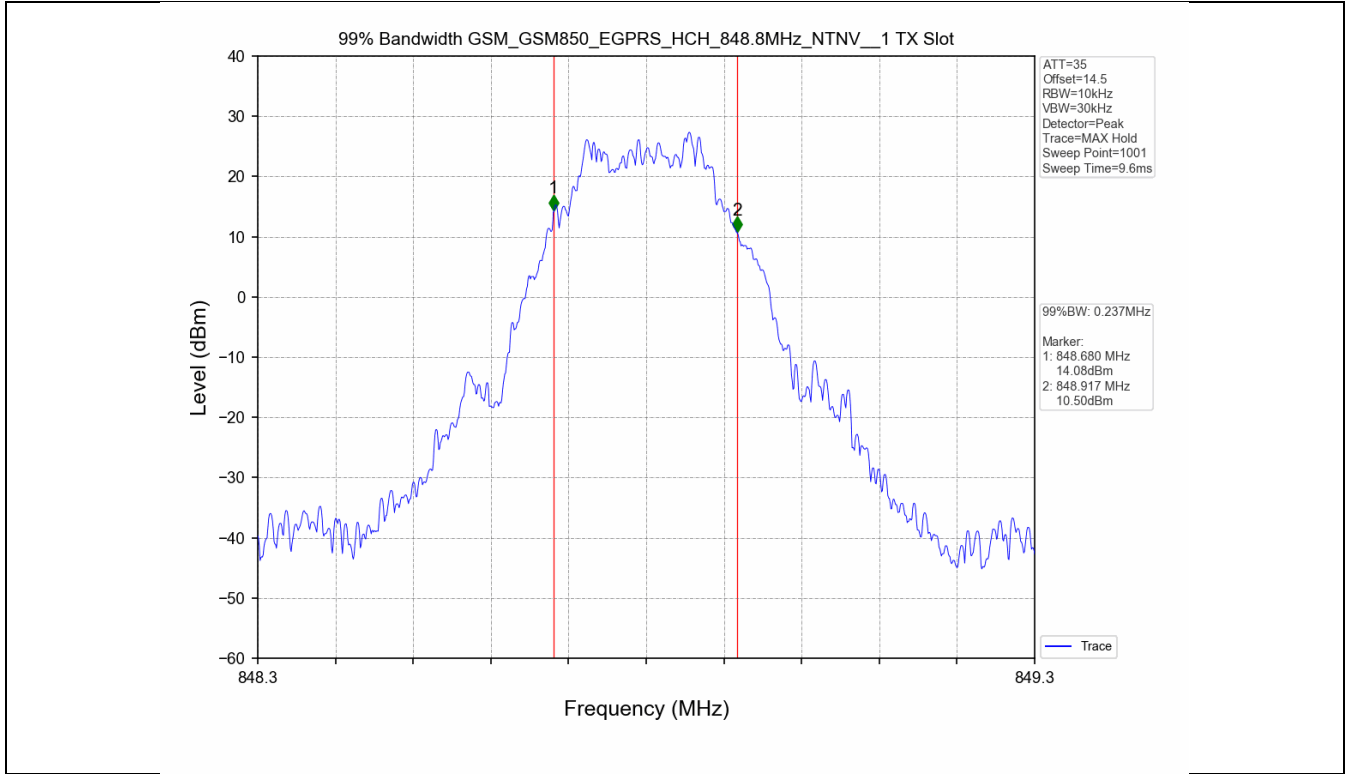
GSM 850

Test Band: GSM850					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.239	0.239	0.237	N/A	PASS
GPRS	0.249	0.244	0.246	N/A	PASS

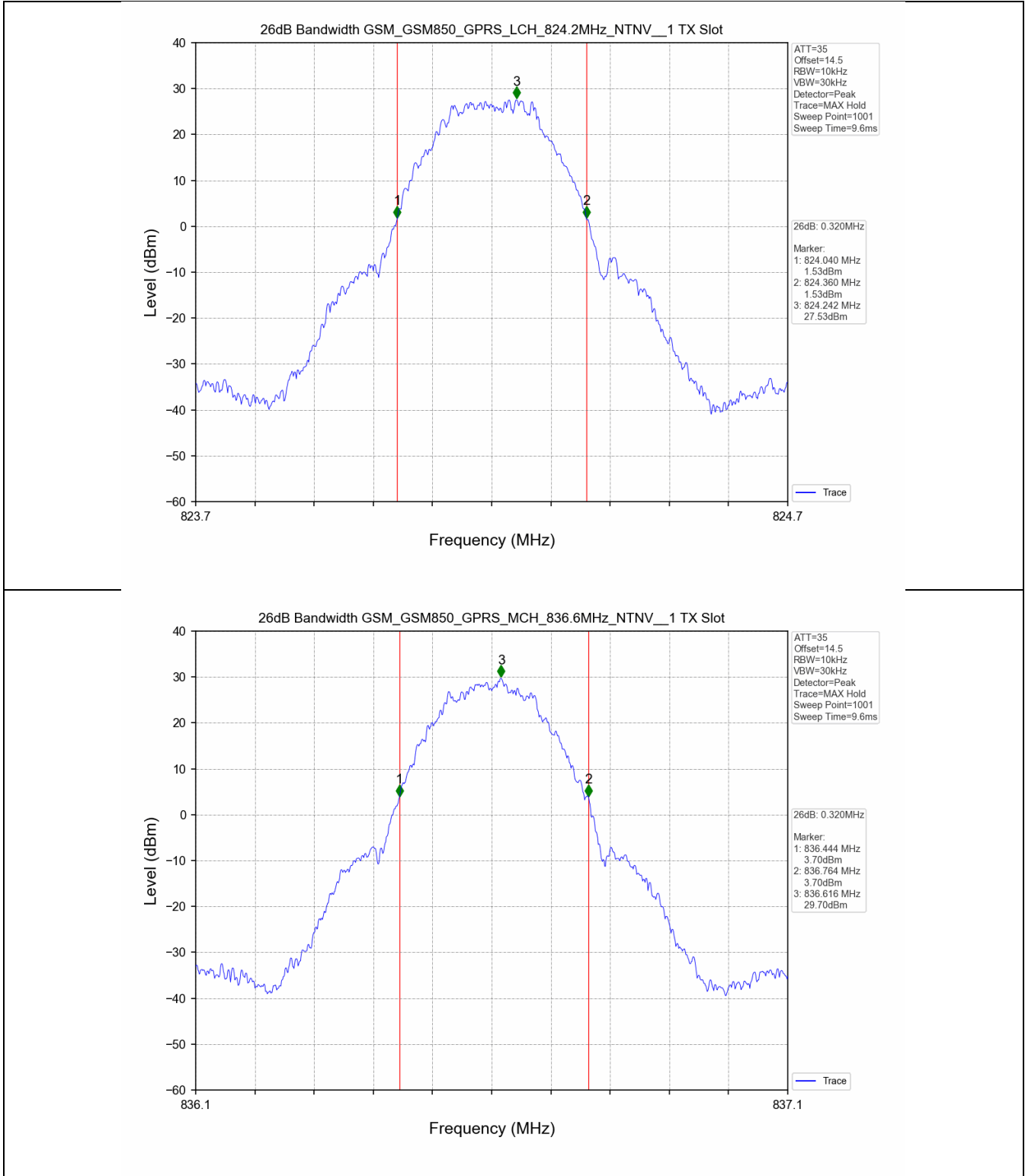


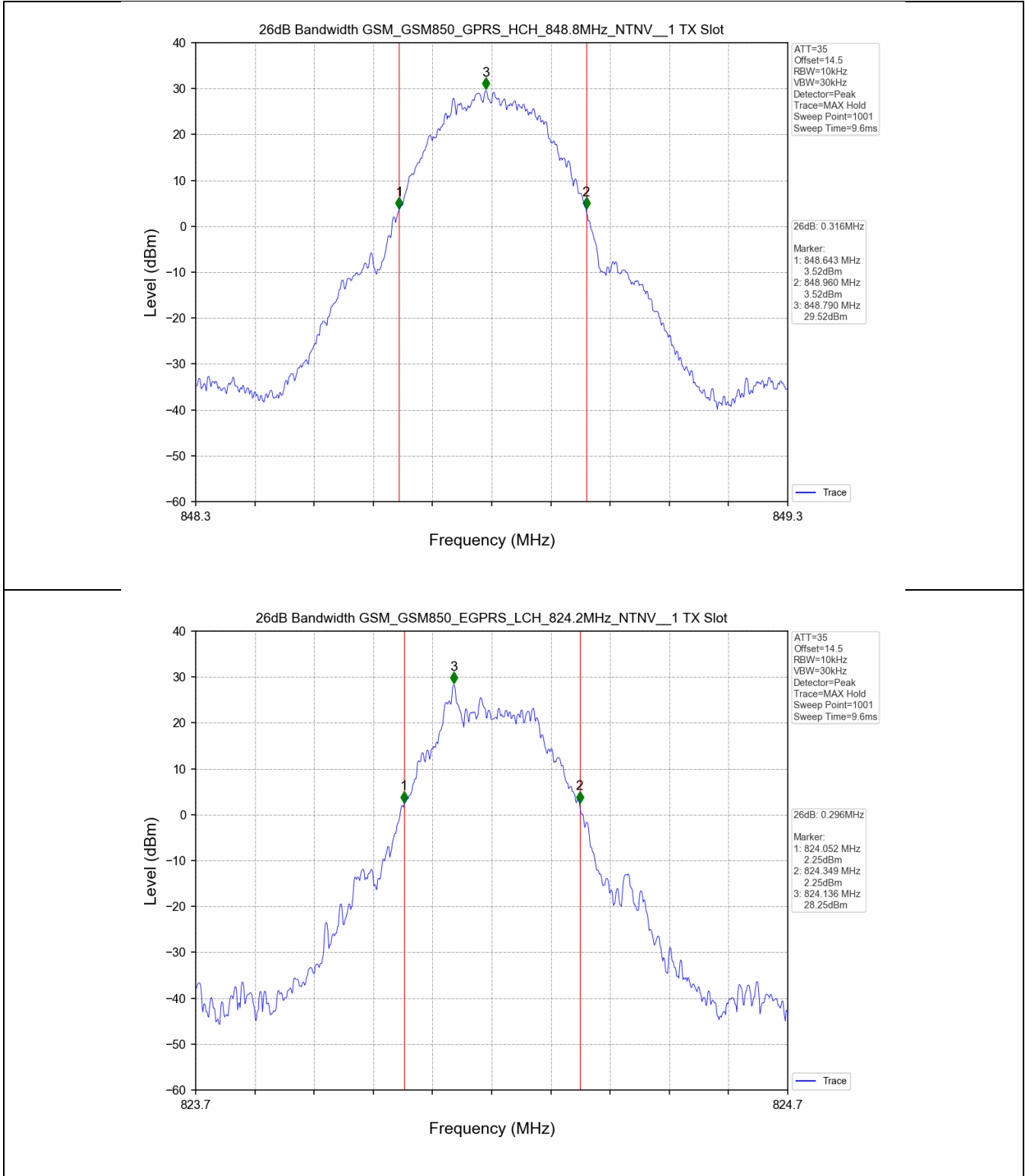


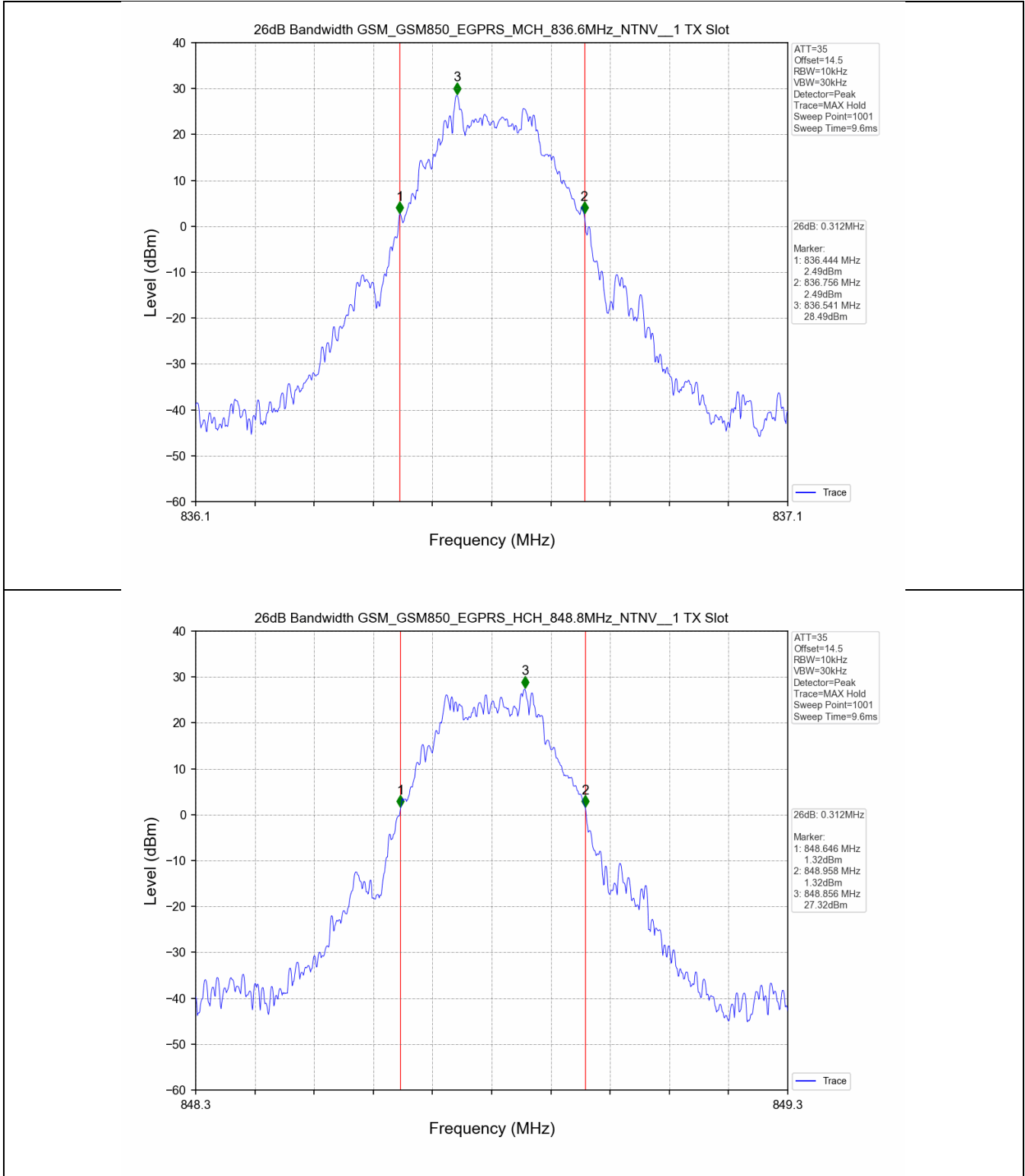




Test Band: GSM850					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.296	0.312	0.312	N/A	PASS
GPRS	0.320	0.320	0.316	N/A	PASS





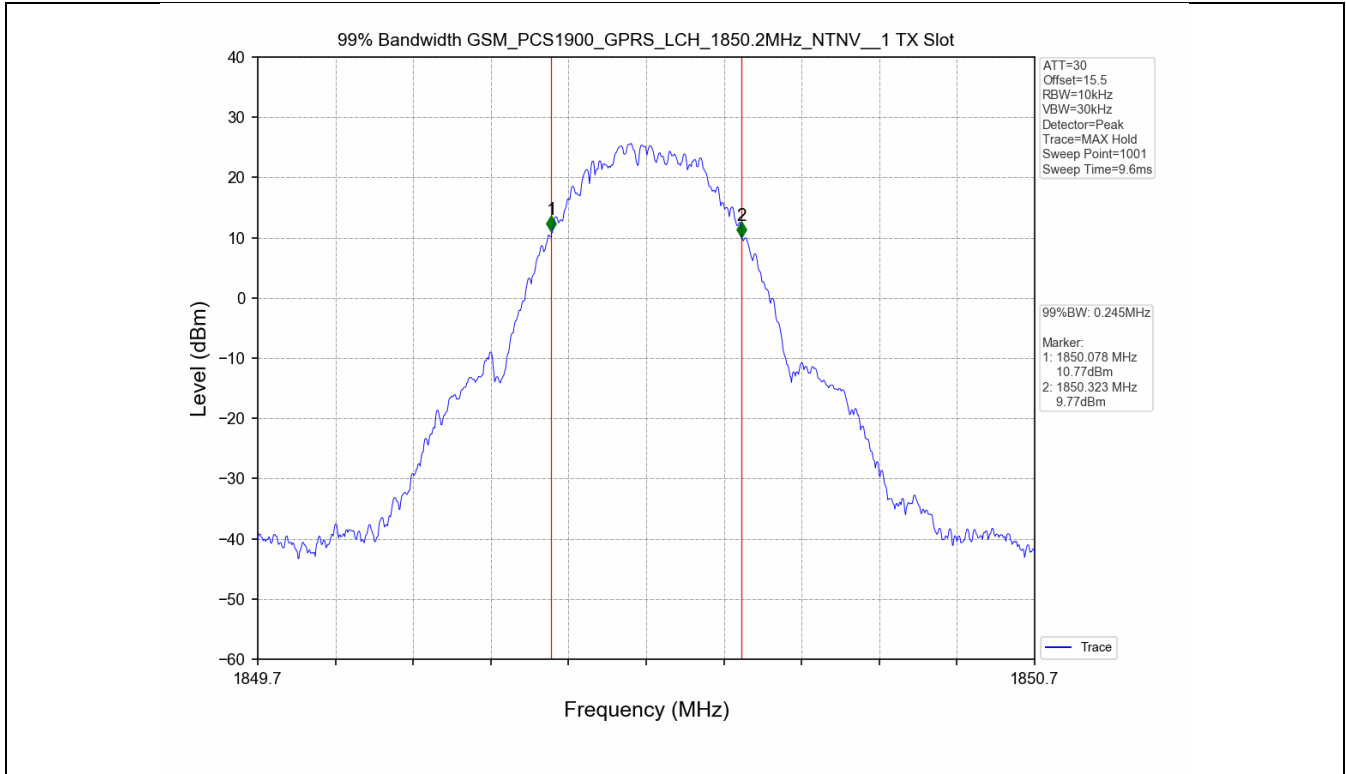


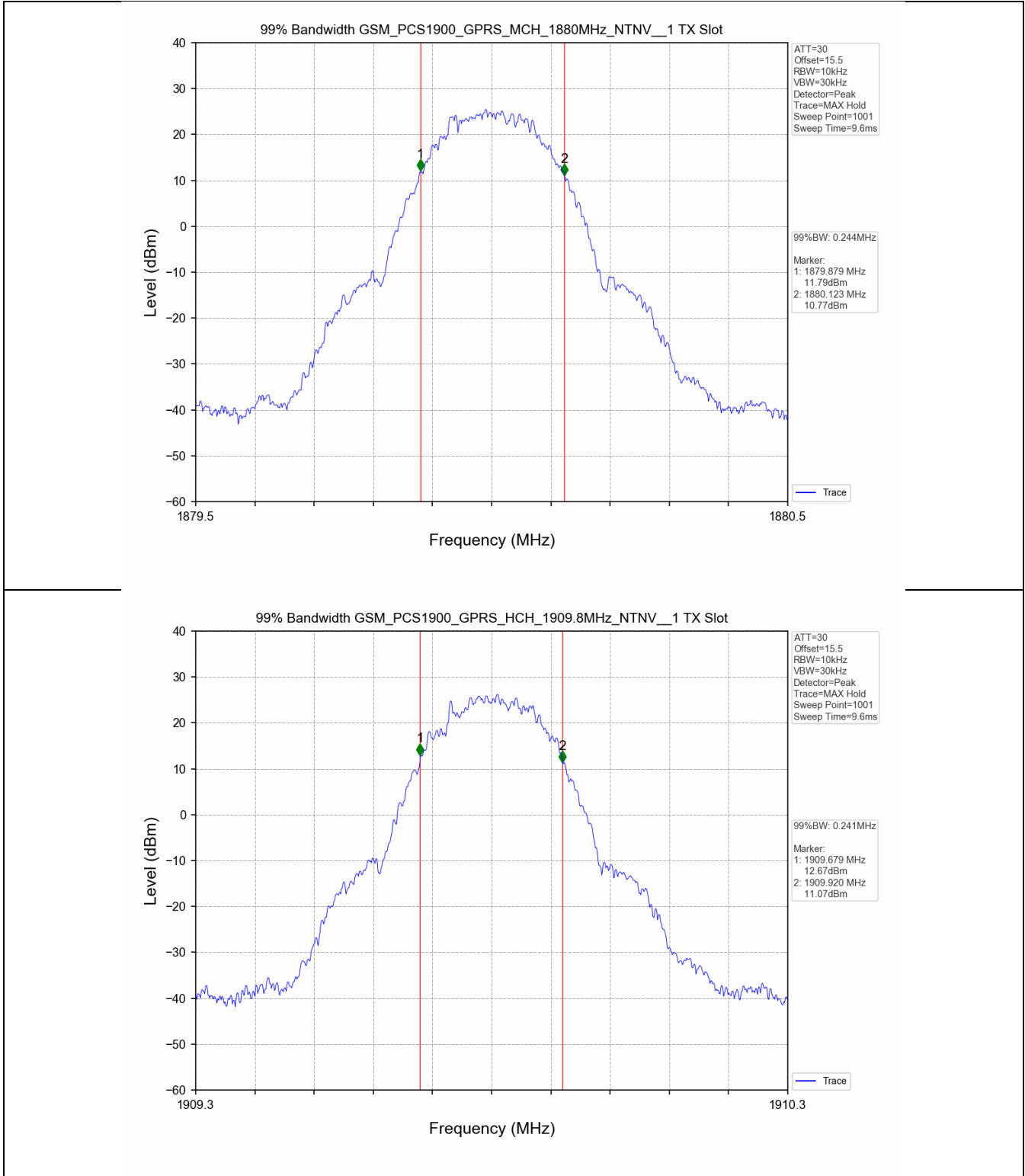
PCS 1900

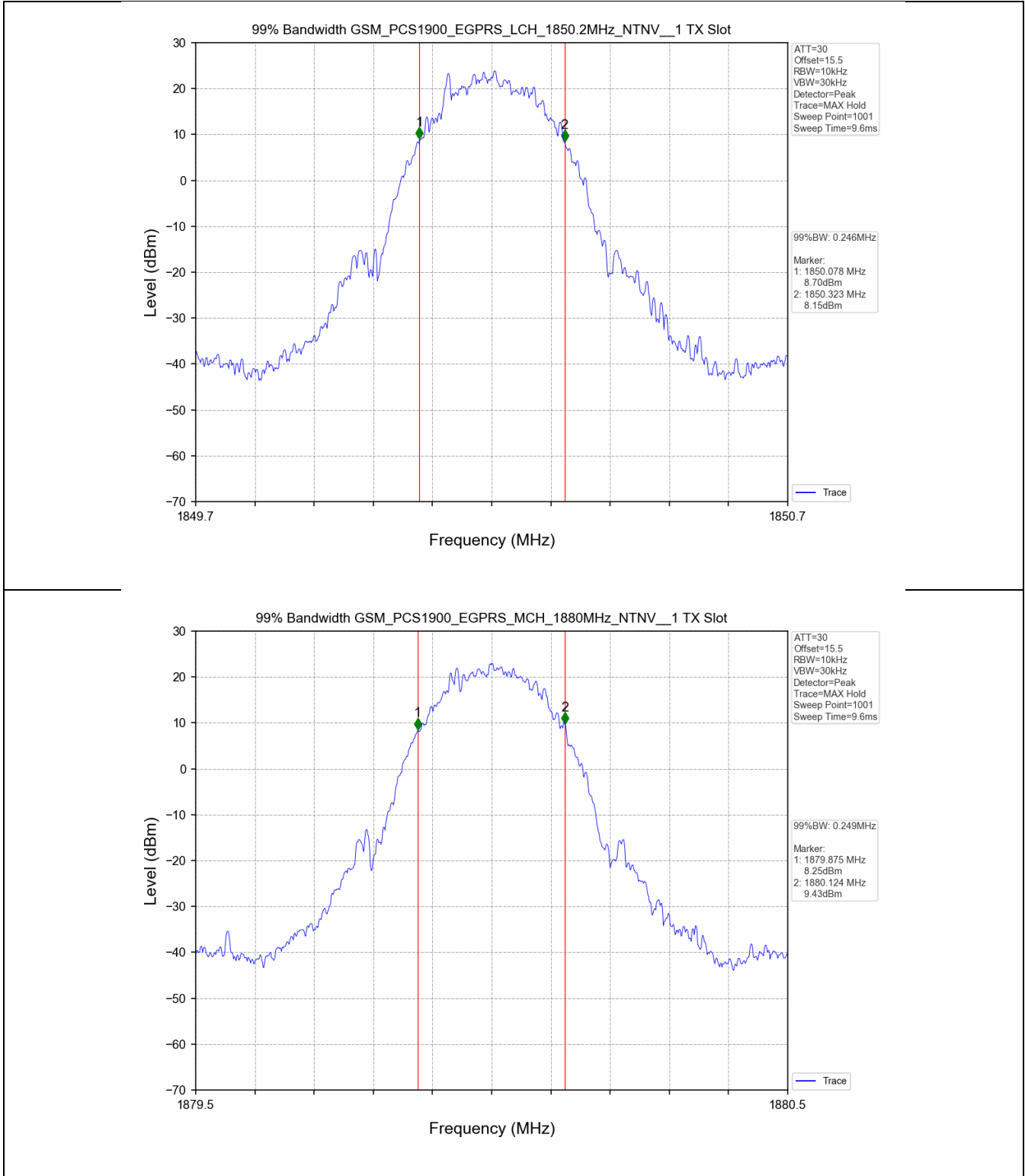
NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

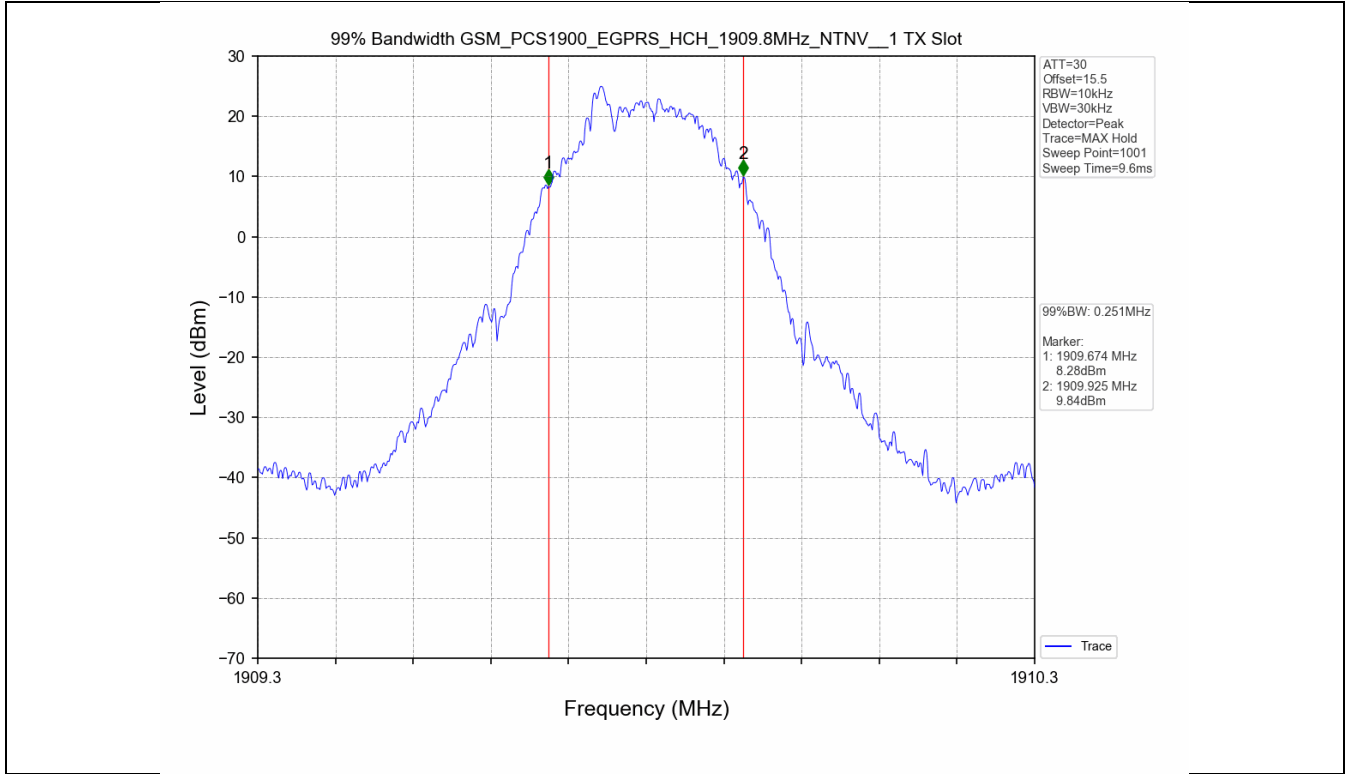
t(86-21)61915666 f(86-21)61915678 www.sgsgroup.com.cn
t(86-21)61915666 f(86-21)61915678 esgs.china@sgs.com

Test Band: PCS1900					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.246	0.249	0.251	N/A	PASS
GPRS	0.245	0.244	0.241	N/A	PASS

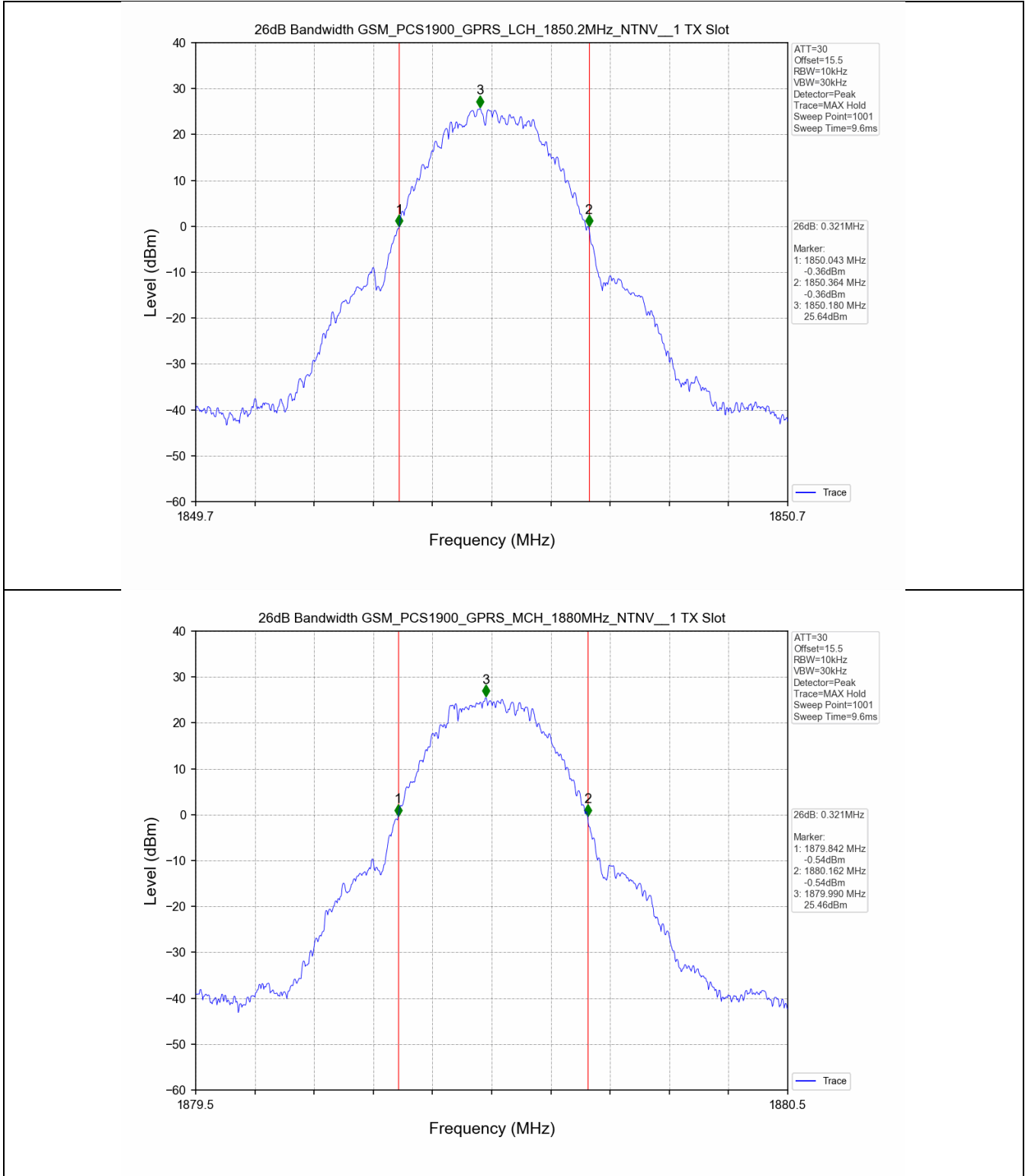


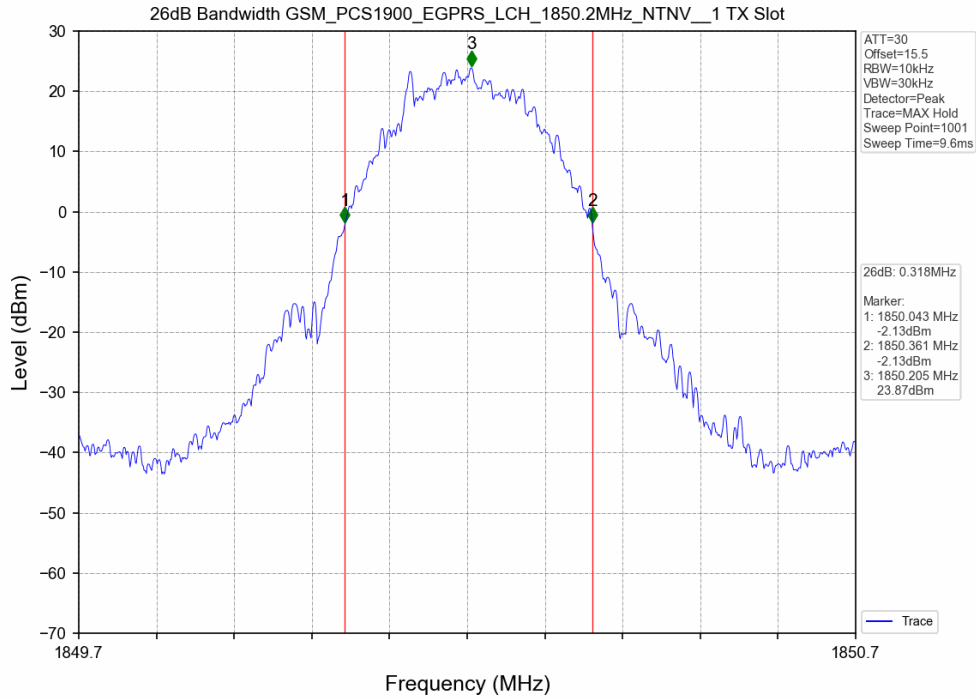
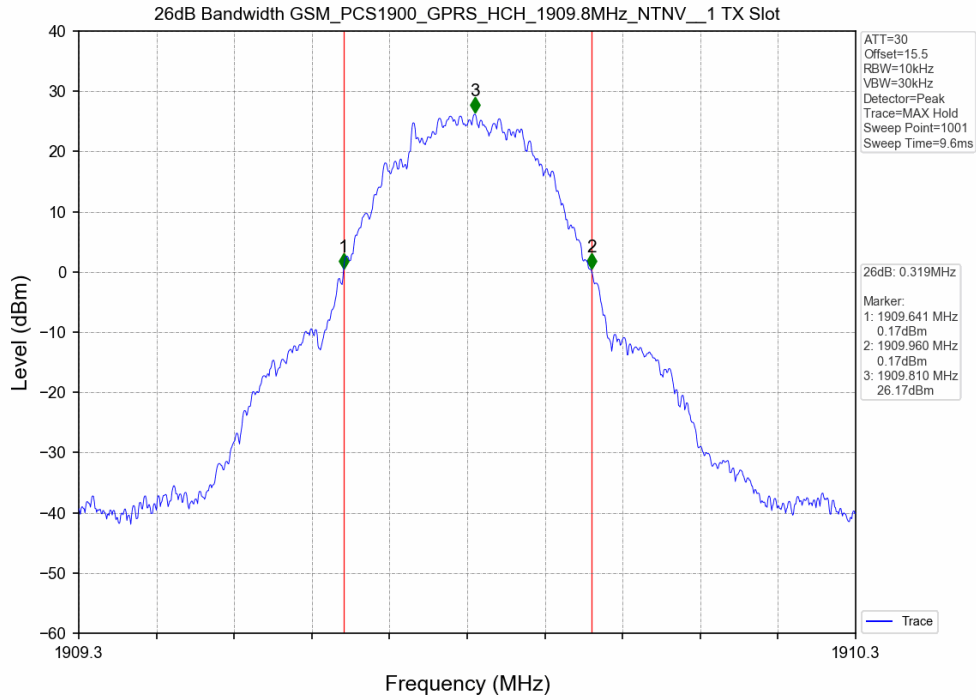


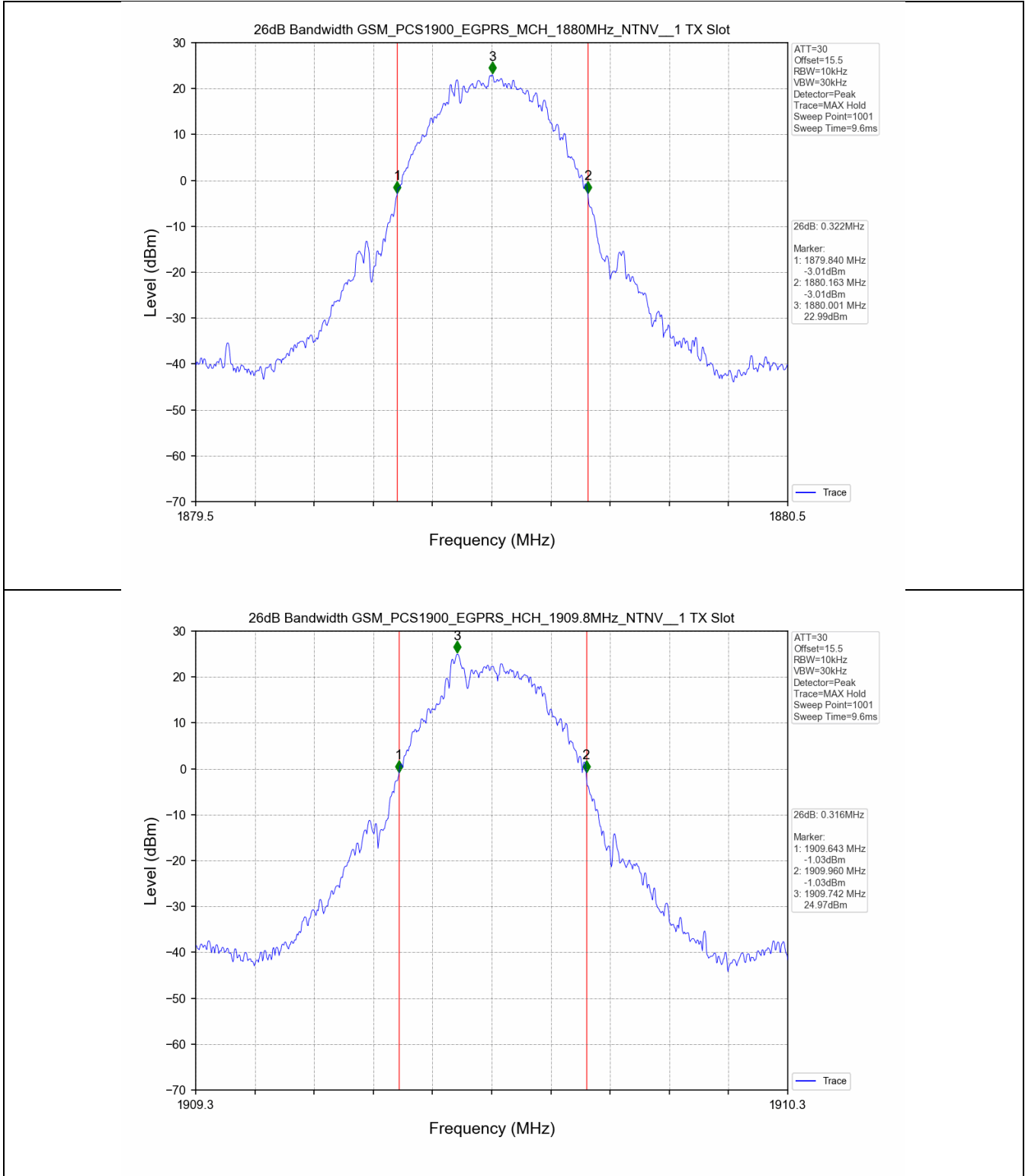




Test Band: PCS1900					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
EGPRS	0.318	0.322	0.316	N/A	PASS
GPRS	0.321	0.321	0.319	N/A	PASS







2.Frequency stability

GSM 850

Test Band: GSM850 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	-0.3229	0.3874	1.9049	-0.0004	0.0005	0.0022	2.50	PASS
		NV	1.2591	0.4197	1.8726	0.0015	0.0005	0.0022	2.50	PASS
		HV	0.8394	2.4860	2.1309	0.0010	0.0030	0.0025	2.50	PASS
GPRS	NT	LV	3.0349	2.5829	3.3254	0.0037	0.0031	0.0039	2.50	PASS
		NV	1.6143	2.2923	5.2949	0.0020	0.0027	0.0062	2.50	PASS
		HV	4.3263	4.3909	5.3272	0.0052	0.0052	0.0063	2.50	PASS

Test Band: GSM850 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-20.00	3.5514	1.2591	2.1632	0.0043	0.0015	0.0025	2.50	PASS
		-10.00	3.2286	-0.5489	0.6780	0.0039	-0.0007	0.0008	2.50	PASS
		0.00	3.7452	0.7426	1.0331	0.0045	0.0009	0.0012	2.50	PASS
		10.00	3.3254	3.0994	2.4537	0.0040	0.0037	0.0029	2.50	PASS
		20.00	2.9380	0.5166	2.1632	0.0036	0.0006	0.0025	2.50	PASS
		30.00	4.3586	0.8071	-0.9686	0.0053	0.0010	-0.0011	2.50	PASS
		40.00	4.1972	1.2269	2.1632	0.0051	0.0015	0.0025	2.50	PASS
		50.00	0.6780	0.5166	2.3569	0.0008	0.0006	0.0028	2.50	PASS
GPRS	NV	60.00	4.1003	0.9686	1.9372	0.0050	0.0012	0.0023	2.50	PASS
		-20.00	5.3595	4.4554	4.6492	0.0065	0.0053	0.0055	2.50	PASS
		-10.00	4.5200	2.5829	4.0357	0.0055	0.0031	0.0048	2.50	PASS
		0.00	5.1980	1.4851	4.1003	0.0063	0.0018	0.0048	2.50	PASS
		10.00	4.8752	2.8089	5.2626	0.0059	0.0034	0.0062	2.50	PASS
		20.00	4.5523	3.3254	4.5846	0.0055	0.0040	0.0054	2.50	PASS
		30.00	4.2294	4.2940	3.8097	0.0051	0.0051	0.0045	2.50	PASS
		40.00	3.0349	3.1963	4.3263	0.0037	0.0038	0.0051	2.50	PASS
GPRS	NV	50.00	5.6500	2.5829	4.0357	0.0069	0.0031	0.0048	2.50	PASS
		60.00	3.7129	2.8734	4.3263	0.0045	0.0034	0.0051	2.50	PASS

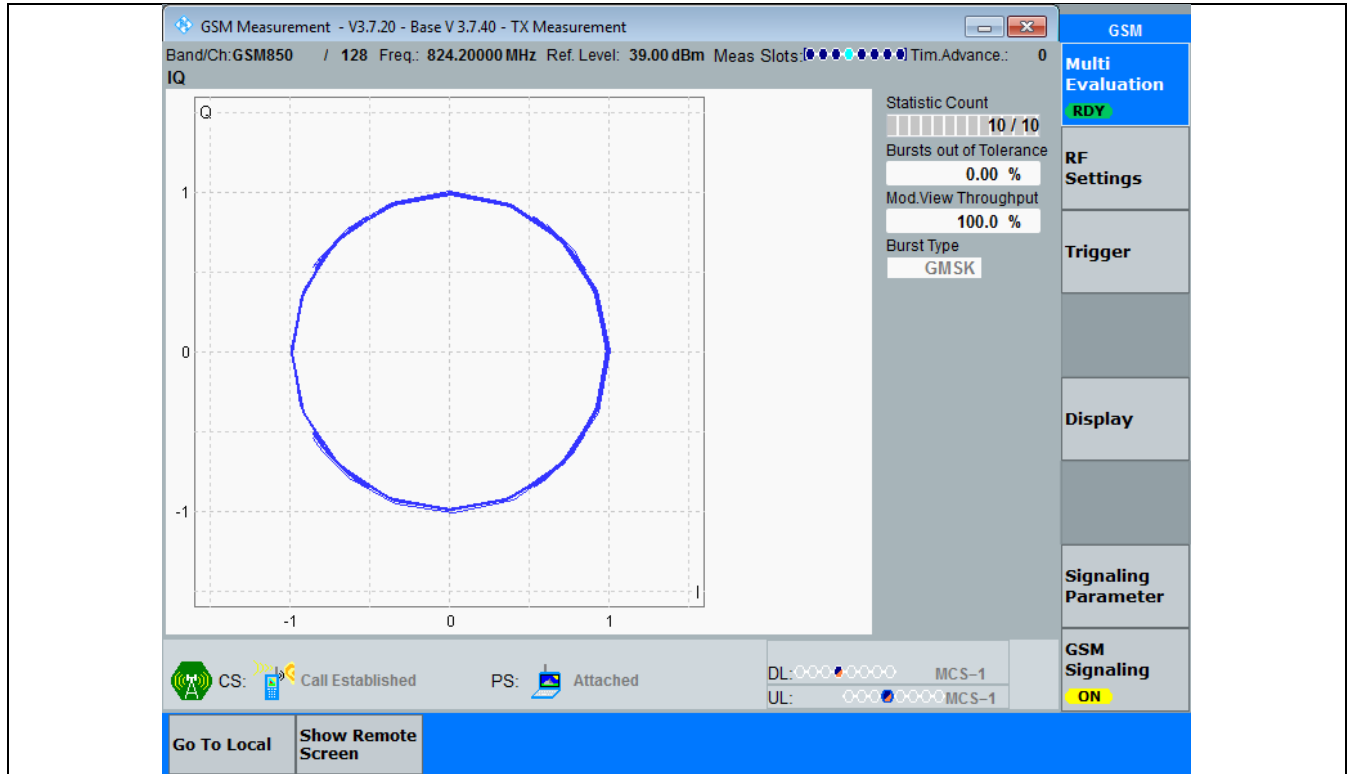
PCS 1900

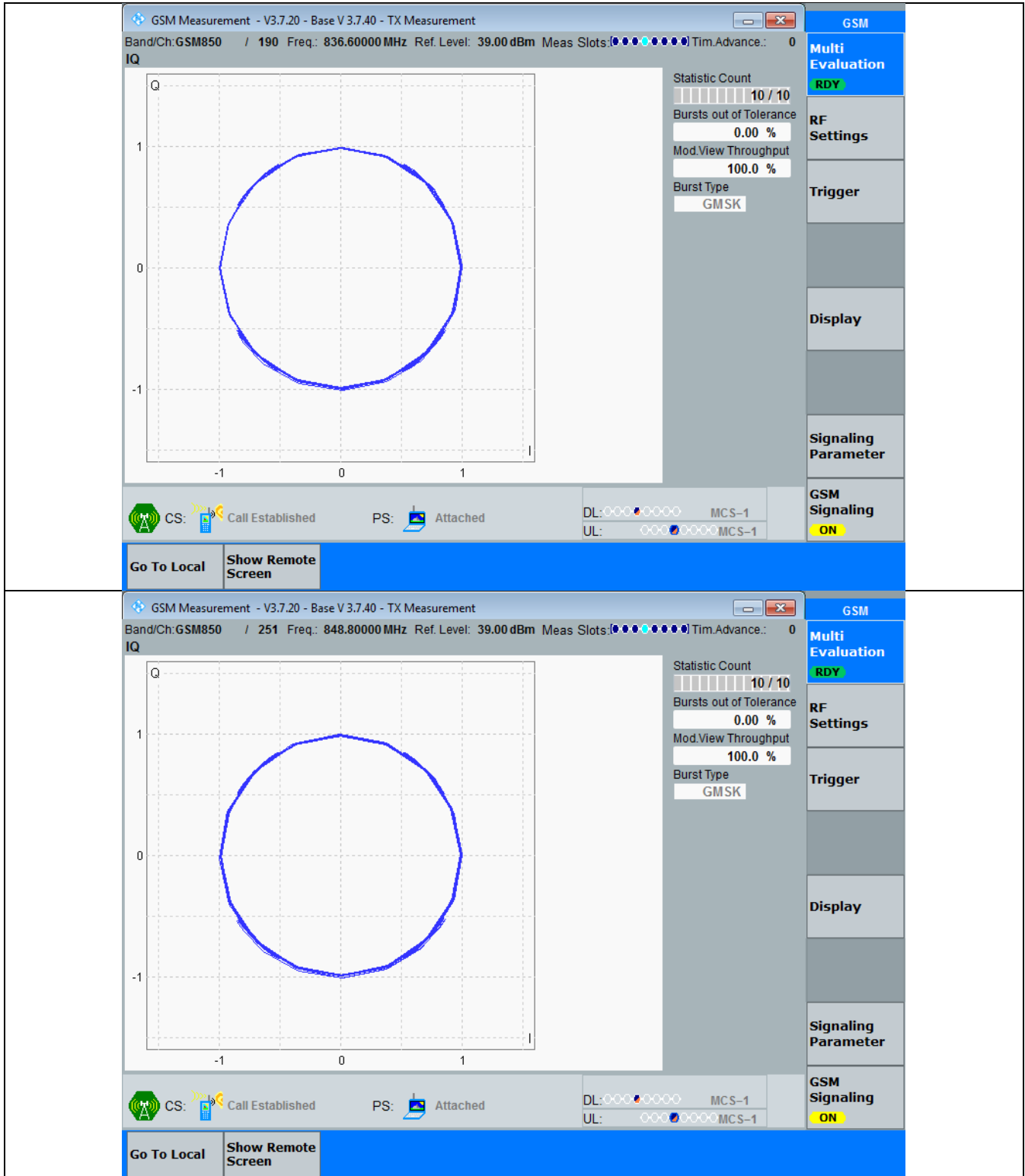
Test Band: PCS1900 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NT	LV	12.2040	12.4300	17.8541	0.0066	0.0066	0.0093	2.50	PASS
		NV	12.8820	12.8498	17.9186	0.0070	0.0068	0.0094	2.50	PASS
		HV	14.5286	12.2040	18.3706	0.0079	0.0065	0.0096	2.50	PASS
GPRS	NT	LV	13.0112	11.5260	17.8864	0.0070	0.0061	0.0094	2.50	PASS
		NV	13.2372	12.5915	20.1141	0.0072	0.0067	0.0105	2.50	PASS
		HV	12.2686	14.4318	17.4666	0.0066	0.0077	0.0091	2.50	PASS

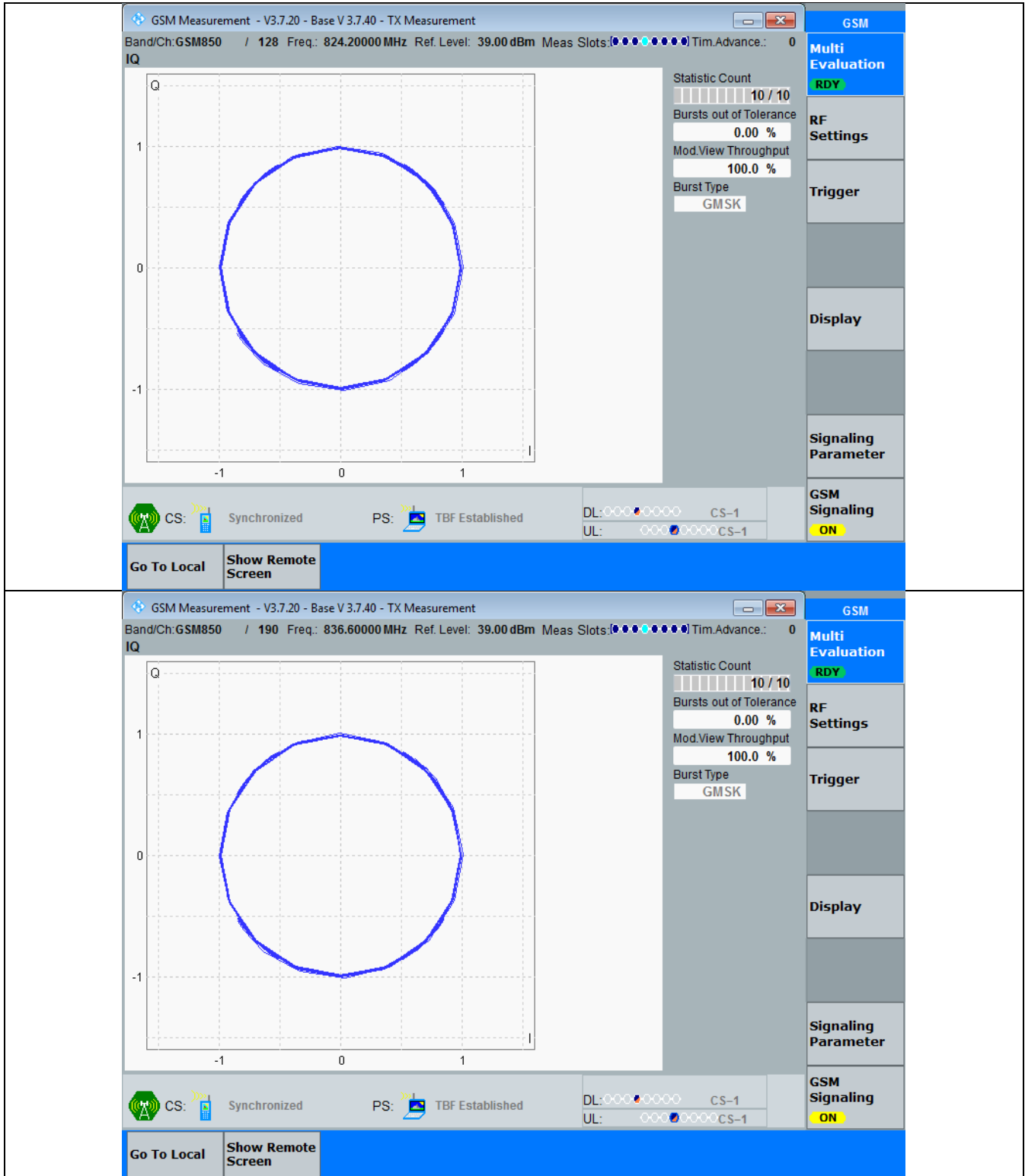
Test Band: PCS1900 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
EGPRS	NV	-20.00	15.4649	11.3646	20.4047	0.0084	0.0060	0.0107	2.50	PASS
		-10.00	14.6255	14.4318	15.6586	0.0079	0.0077	0.0082	2.50	PASS
		0.00	15.0775	13.2372	16.7886	0.0081	0.0070	0.0088	2.50	PASS
		10.00	18.4675	13.6569	17.7572	0.0100	0.0073	0.0093	2.50	PASS
		20.00	15.8846	10.0732	16.6918	0.0086	0.0054	0.0087	2.50	PASS
		30.00	12.3978	10.3960	16.9501	0.0067	0.0055	0.0089	2.50	PASS
		40.00	15.7555	11.2032	17.4344	0.0085	0.0060	0.0091	2.50	PASS
		50.00	15.5618	13.6569	18.3384	0.0084	0.0073	0.0096	2.50	PASS
GPRS	NV	60.00	14.2058	10.9126	17.8864	0.0077	0.0058	0.0094	2.50	PASS
		-20.00	15.4649	8.8786	16.3044	0.0084	0.0047	0.0085	2.50	PASS
		-10.00	16.0784	10.2669	18.4352	0.0087	0.0055	0.0097	2.50	PASS
		0.00	17.5635	12.5915	17.5958	0.0095	0.0067	0.0092	2.50	PASS
		10.00	17.1438	12.5915	18.4998	0.0093	0.0067	0.0097	2.50	PASS
		20.00	17.4666	10.6866	17.2406	0.0094	0.0057	0.0090	2.50	PASS
		30.00	17.9832	11.8812	18.8872	0.0097	0.0063	0.0099	2.50	PASS
		40.00	17.5958	13.2695	17.5958	0.0095	0.0071	0.0092	2.50	PASS
GPRS	NV	50.00	16.0461	11.6229	18.2738	0.0087	0.0062	0.0096	2.50	PASS
		60.00	18.1446	11.9458	17.7572	0.0098	0.0064	0.0093	2.50	PASS

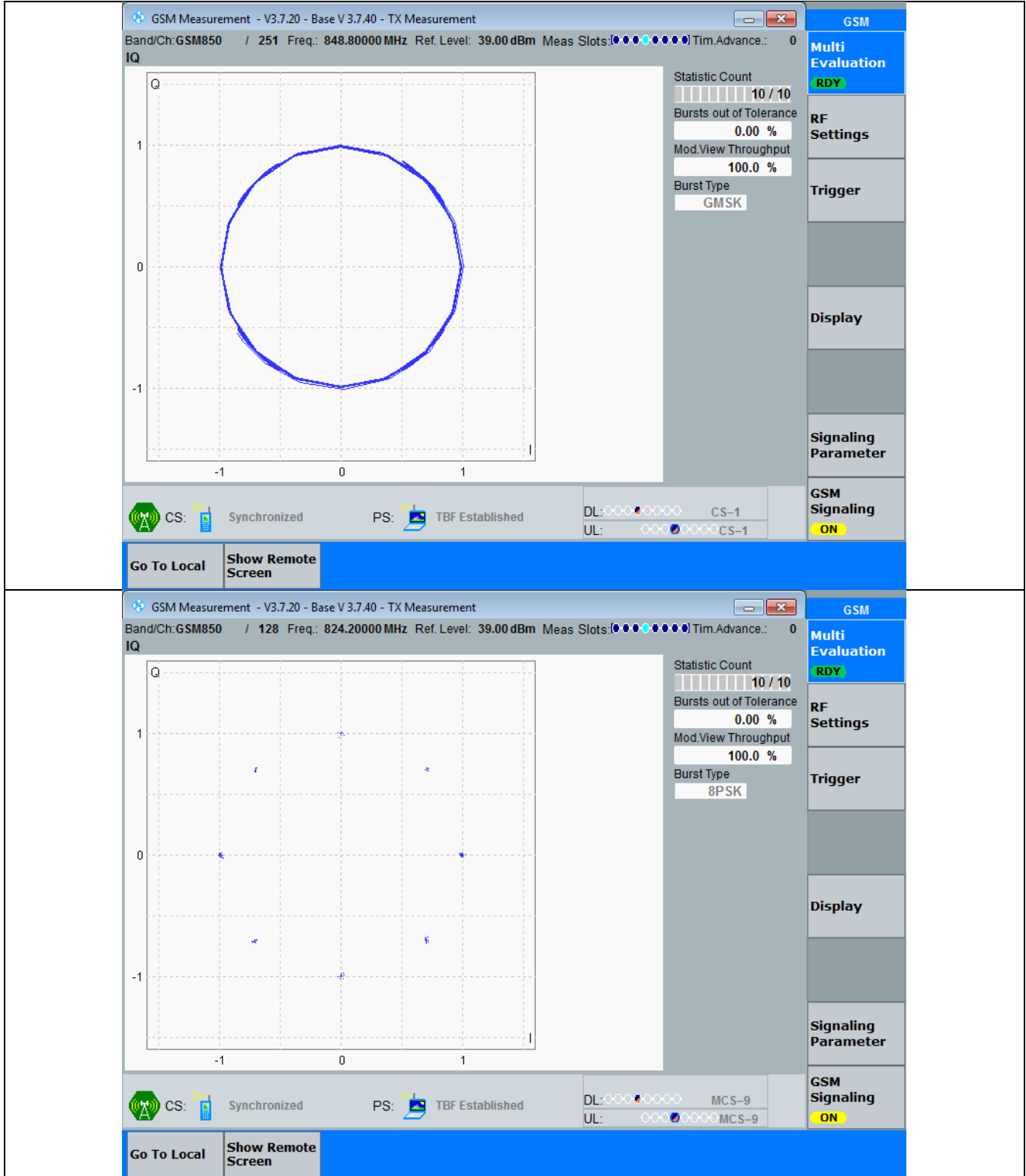
3.Modulation Characteristics

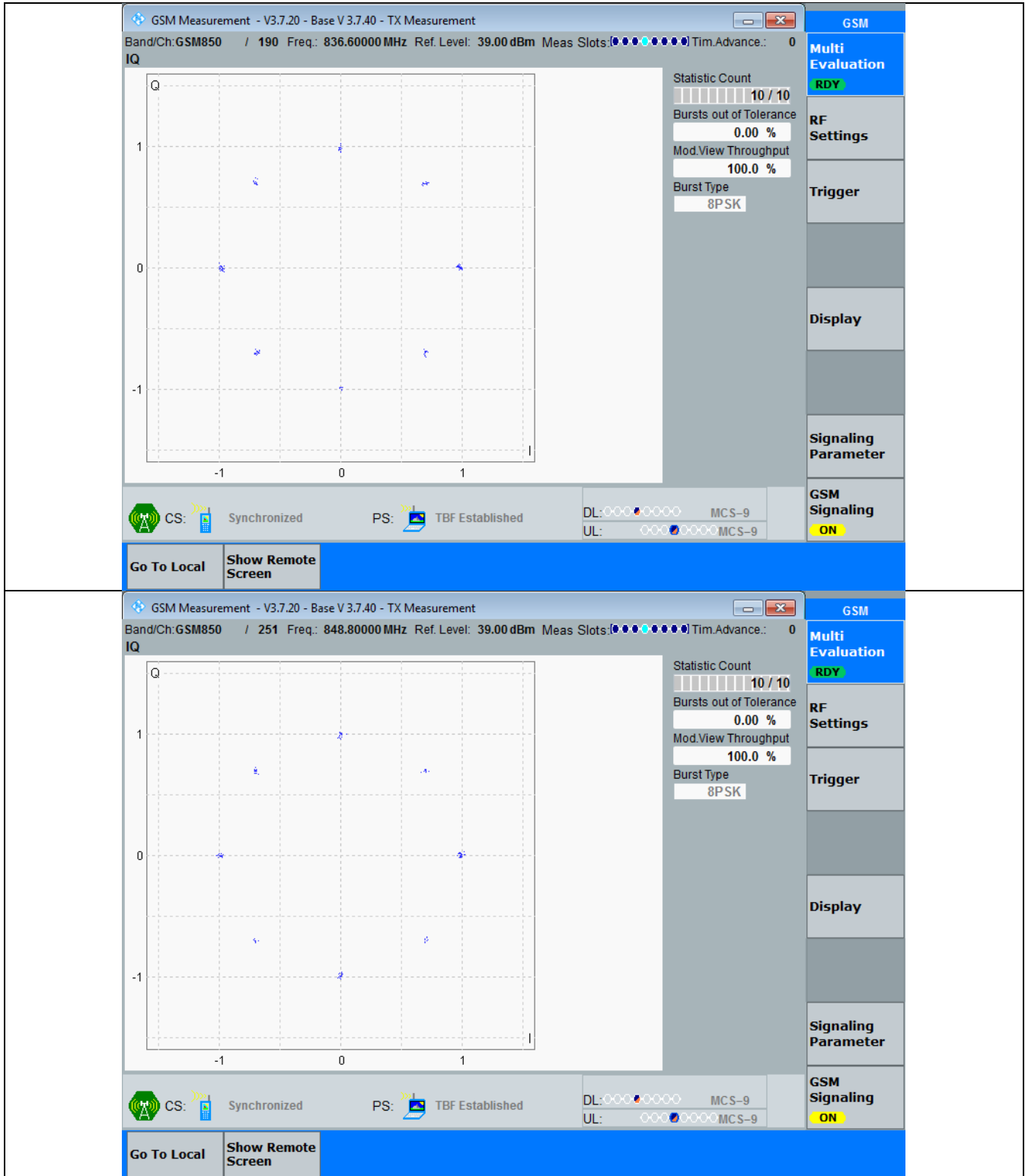
GSM 850







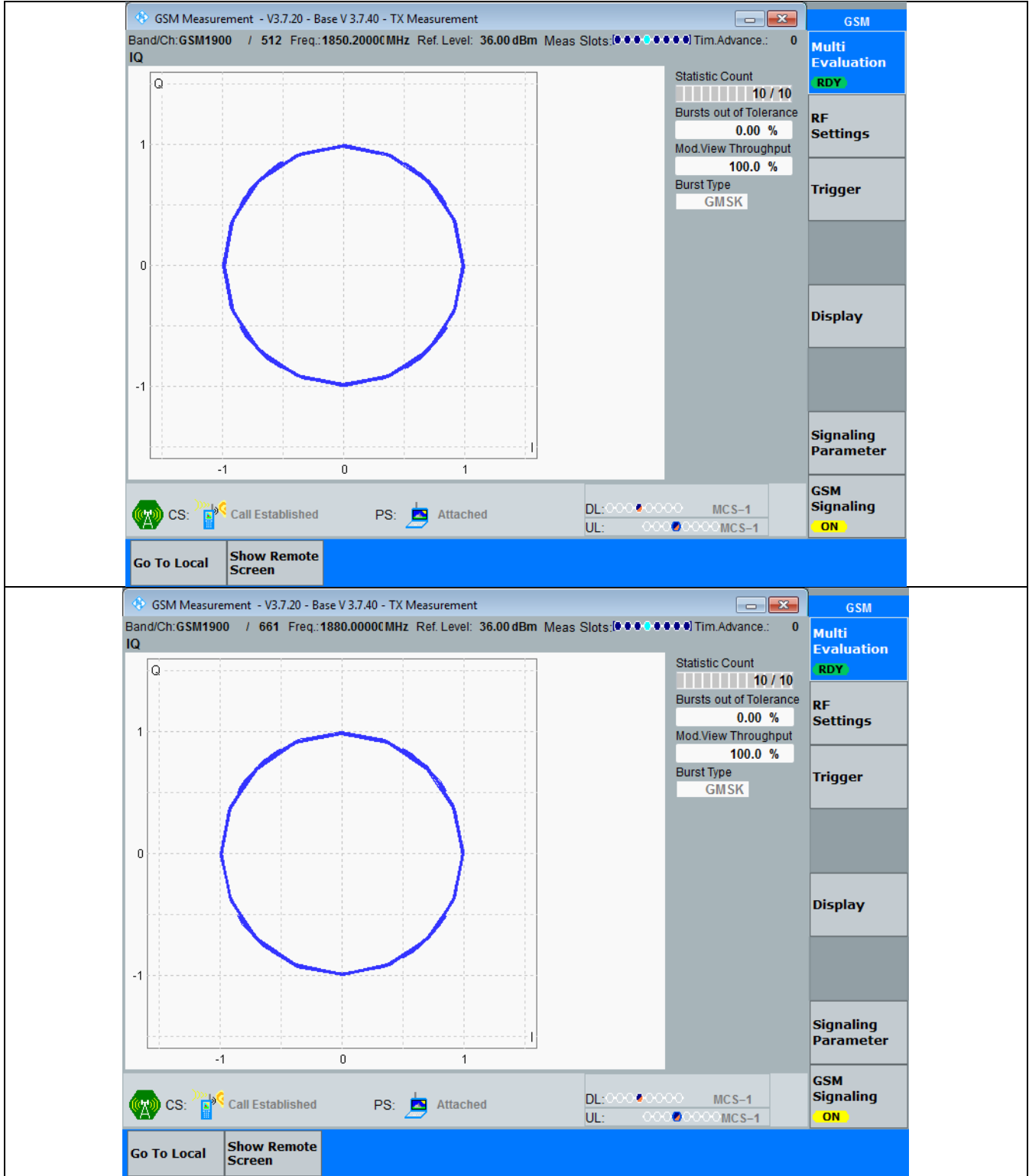


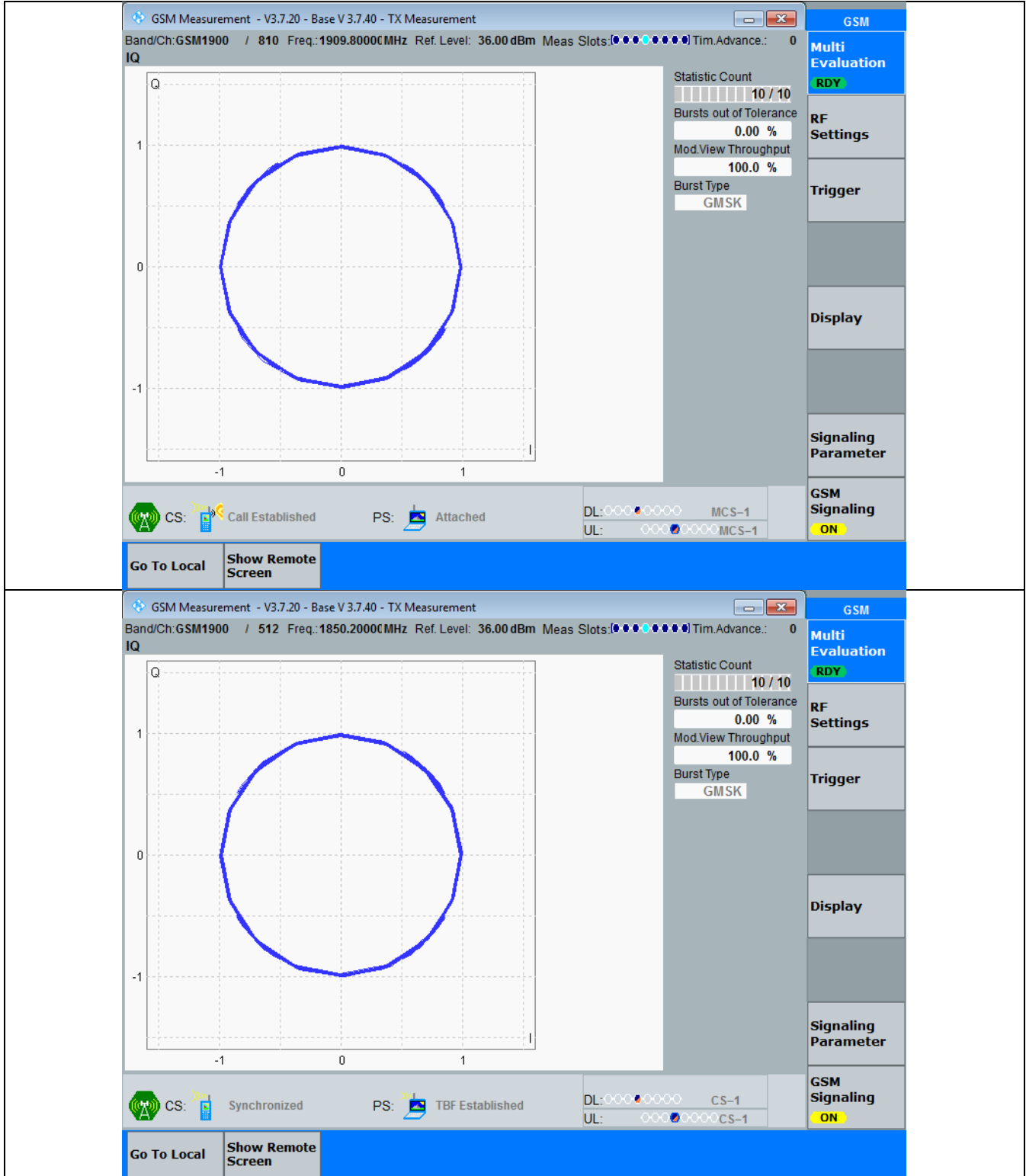


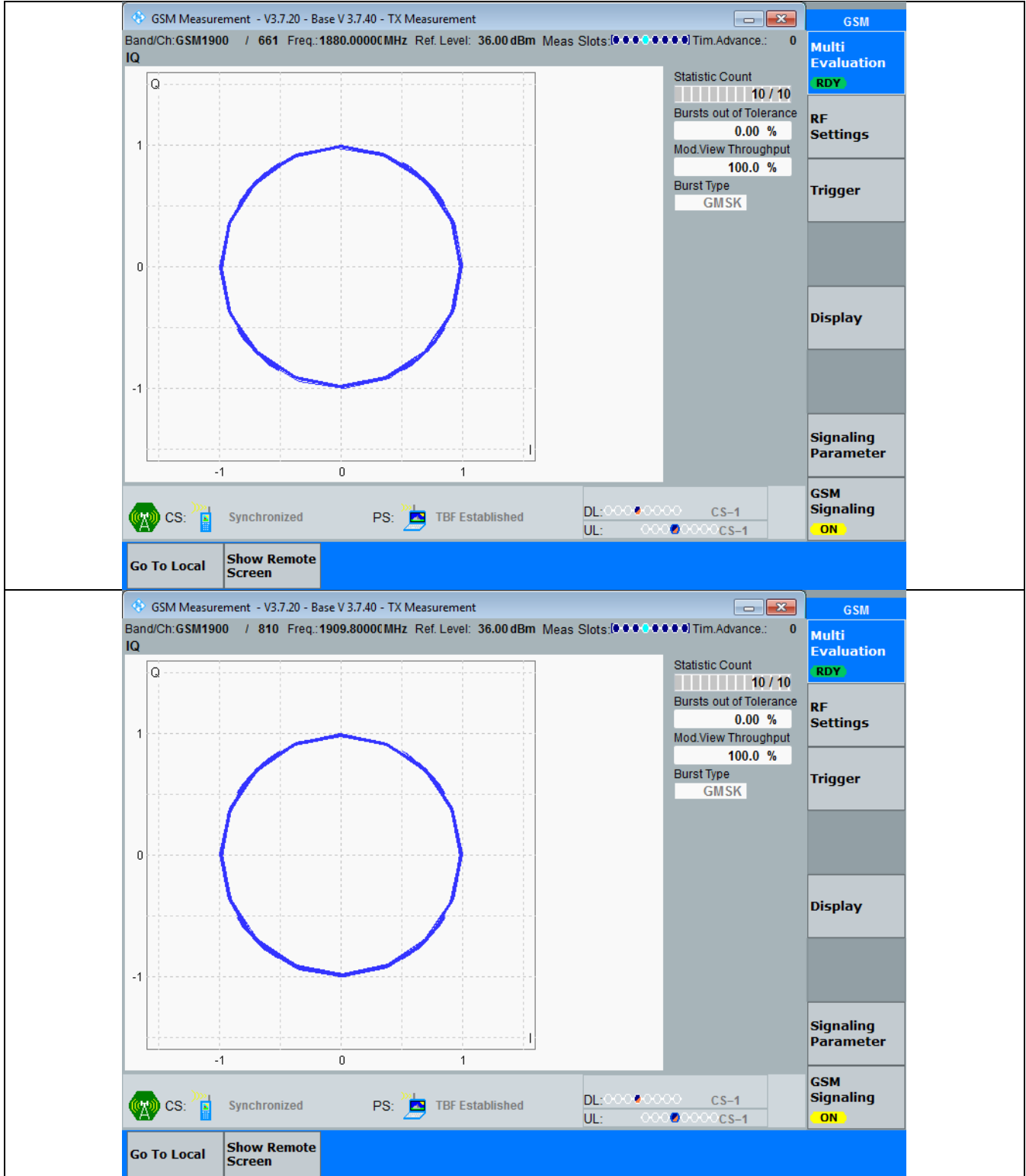
PCS 1900

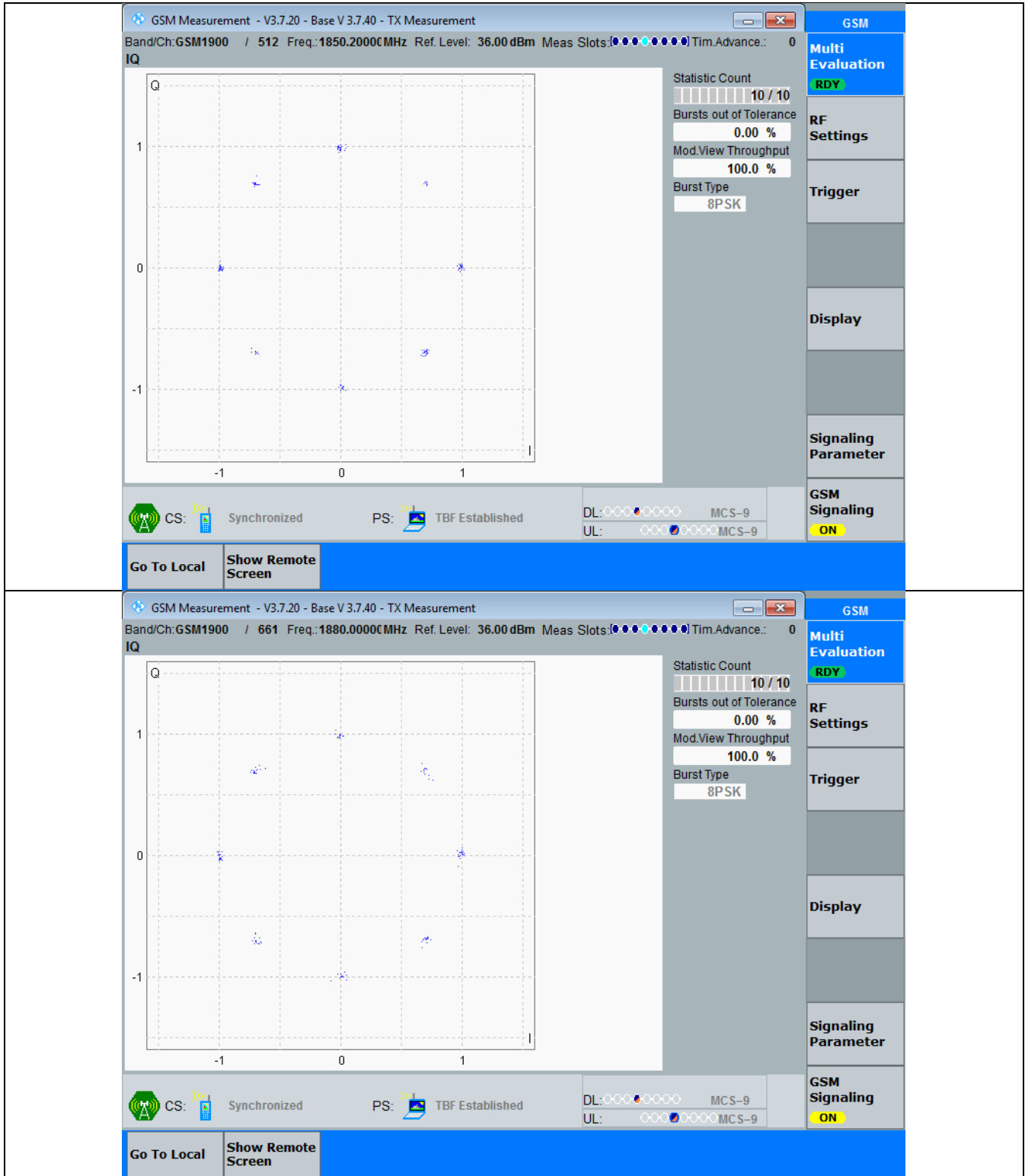
NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612
 中国·上海·松江区金都西路588号 邮编: 201612

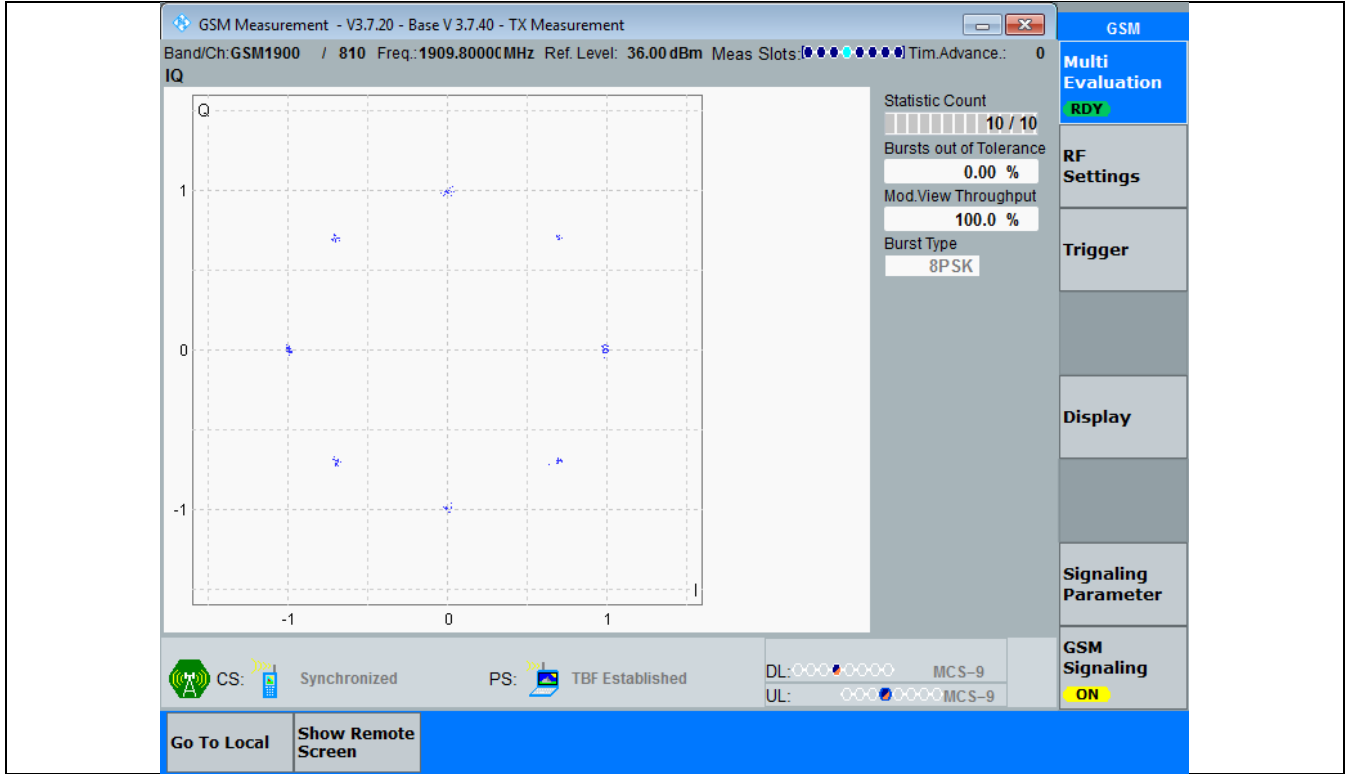
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 t(86-21)61915666 f(86-21)61915678 e.sgs.china@sgs.com







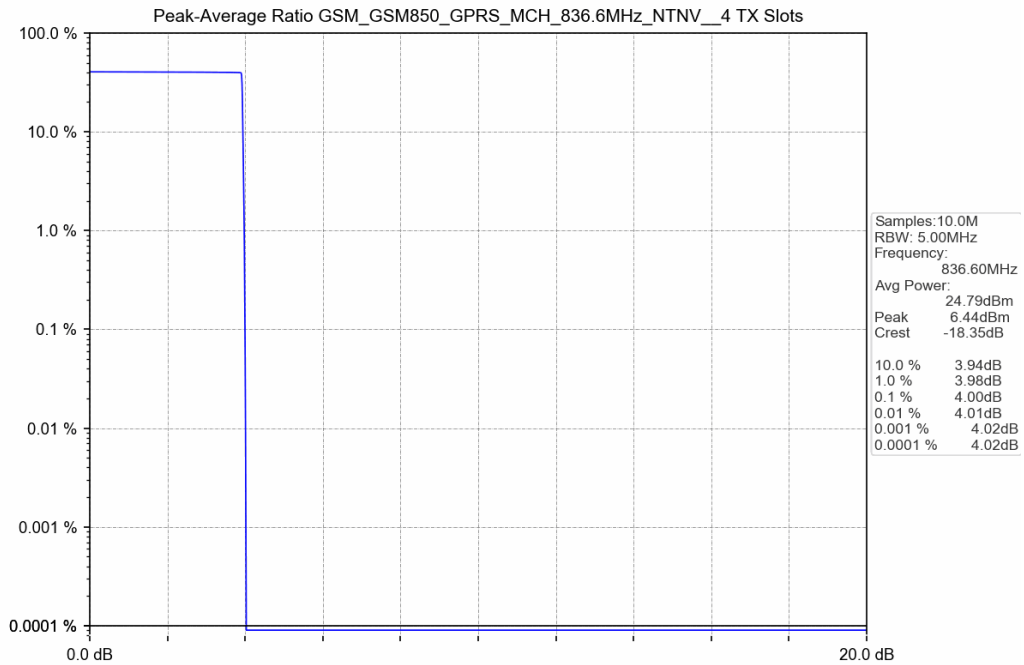
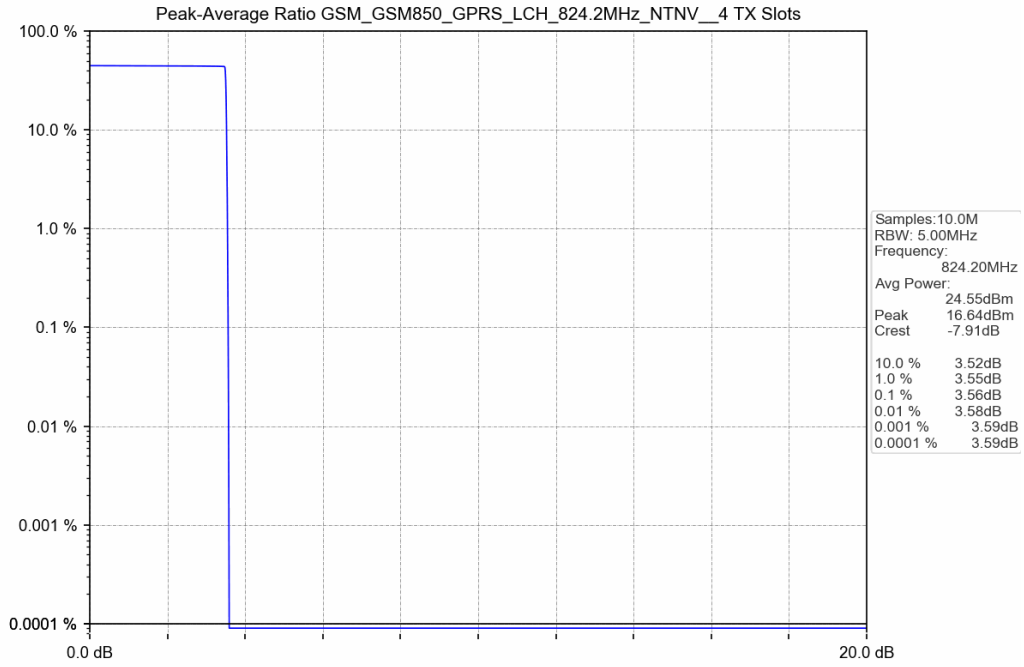


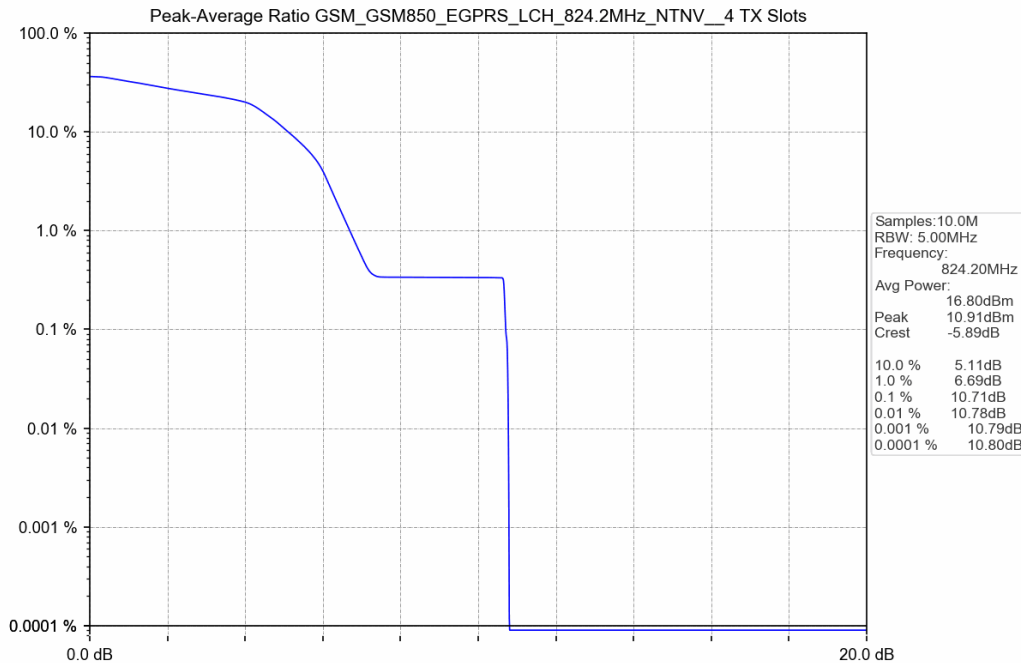
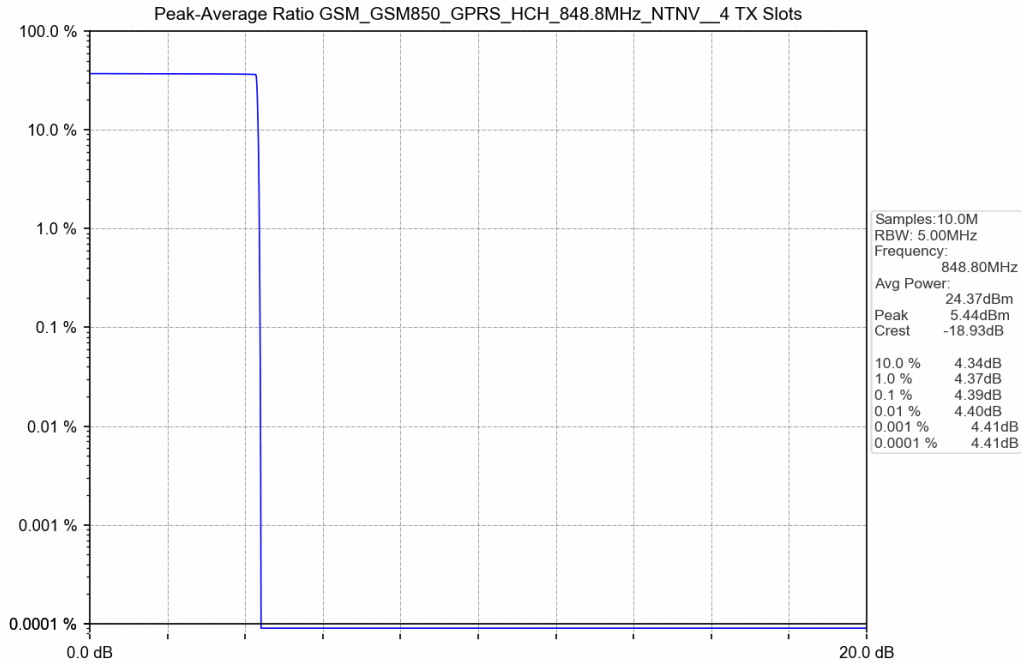


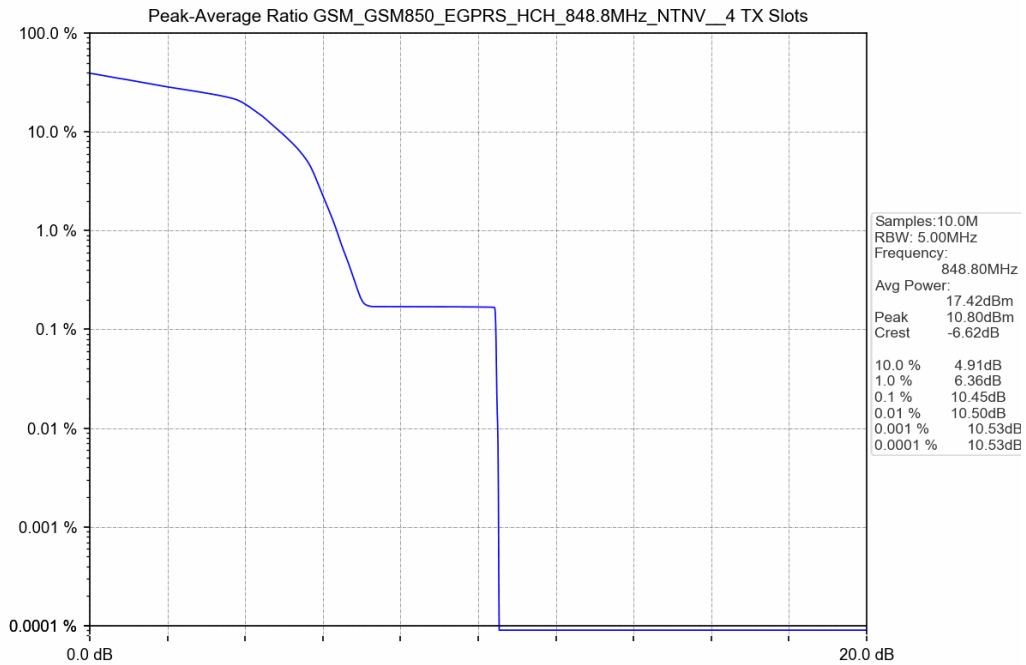
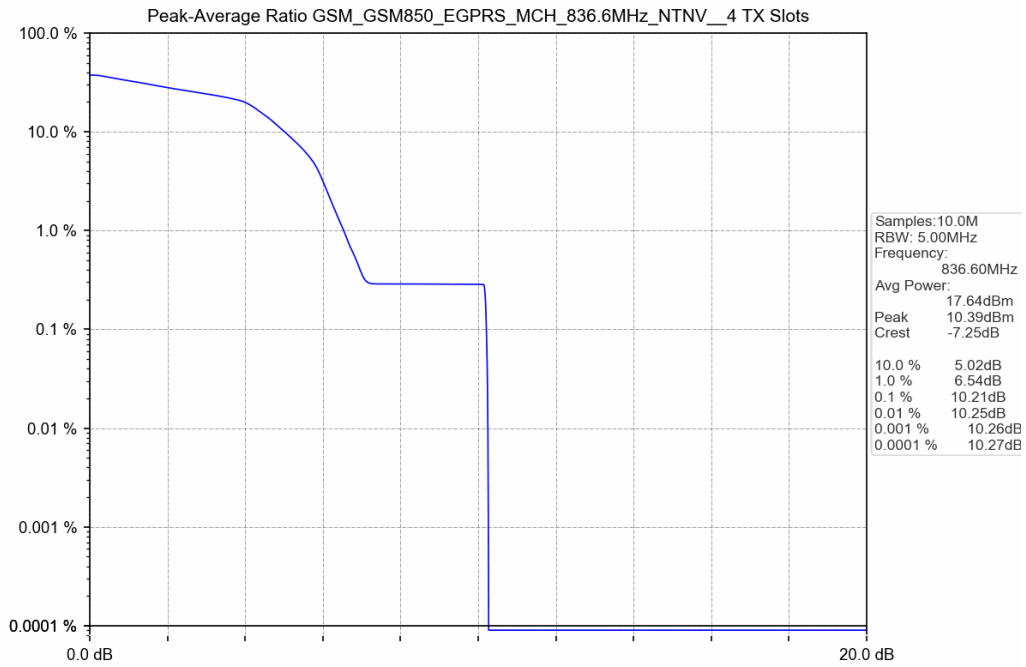
4. Peak-Average Ratio

GSM 850

Test Band: GSM850					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	10.71	10.21	10.45	13	PASS
GPRS	3.56	4.00	4.39	13	PASS

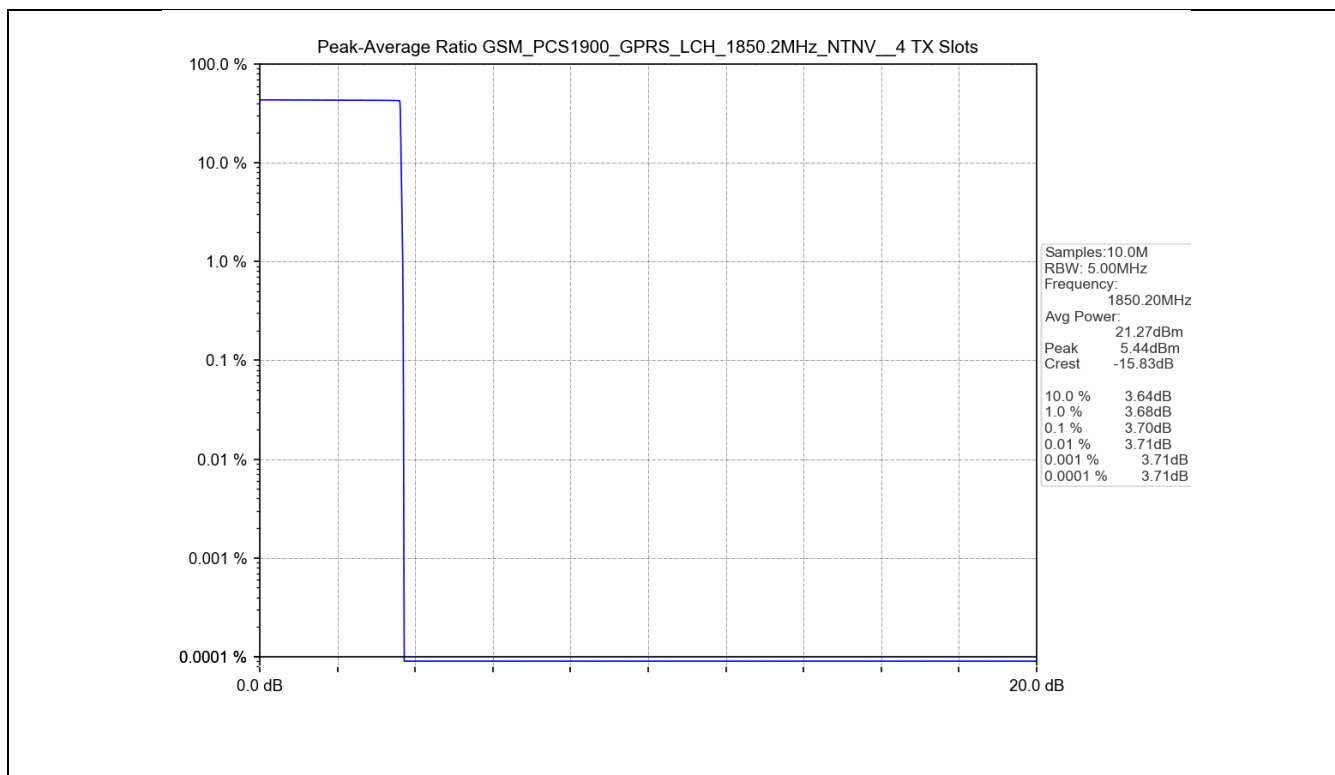


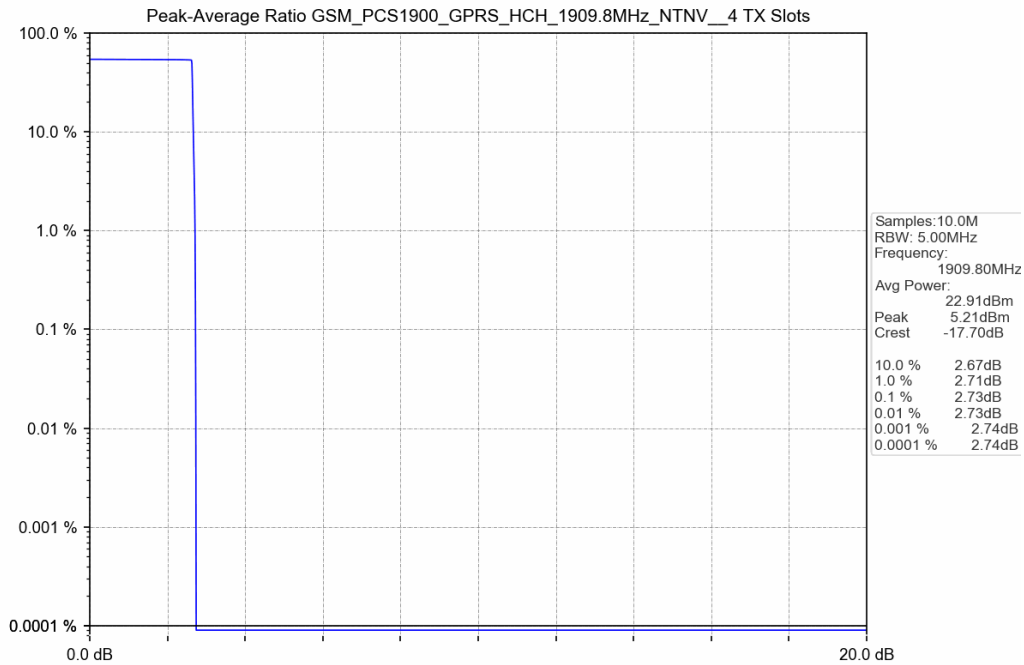
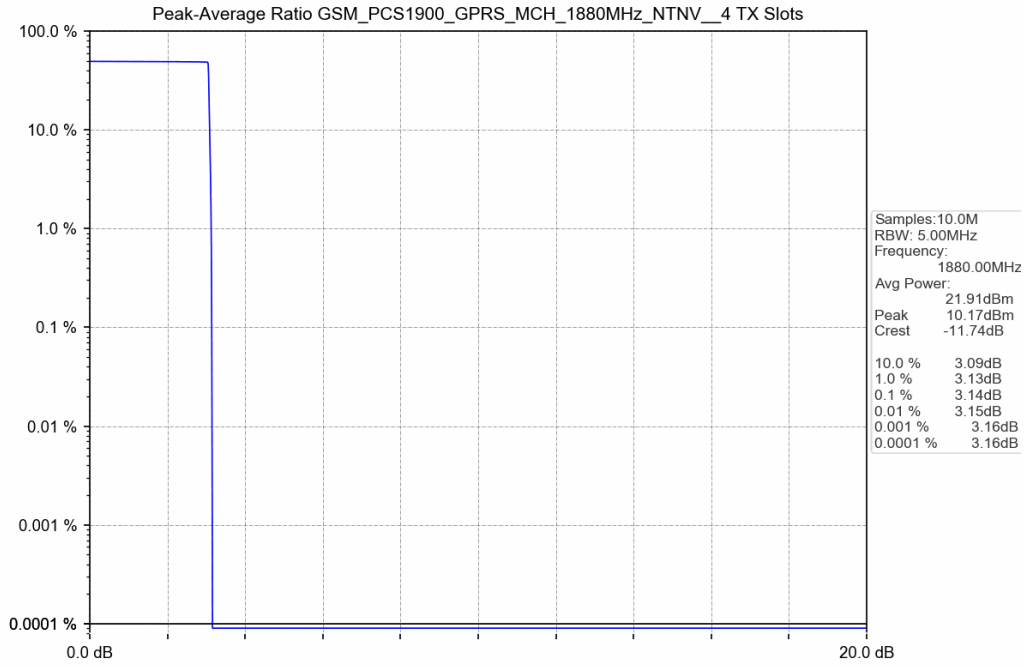


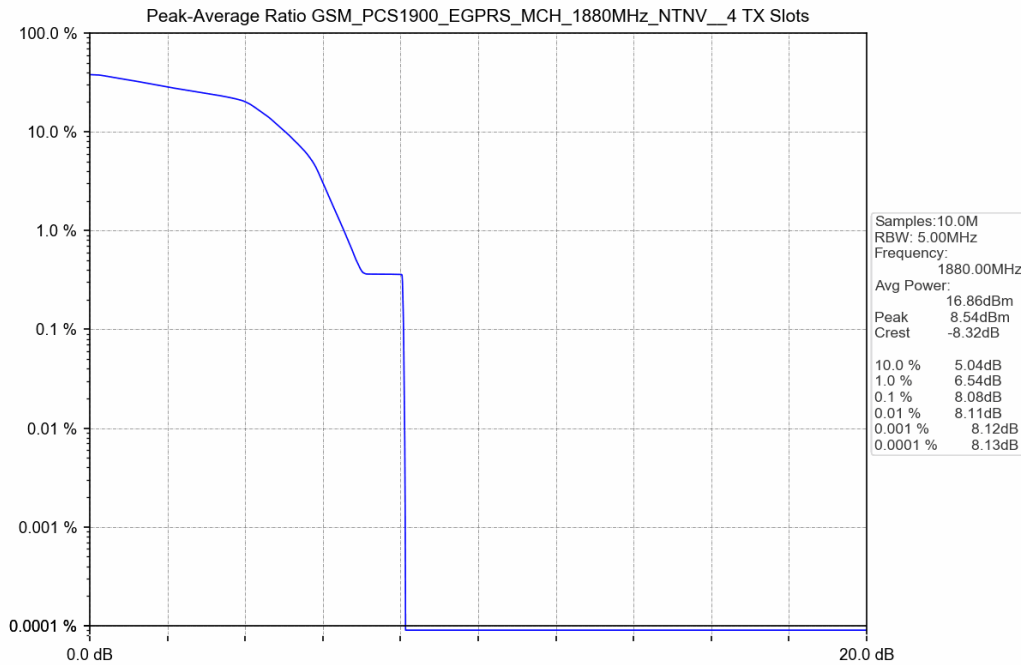
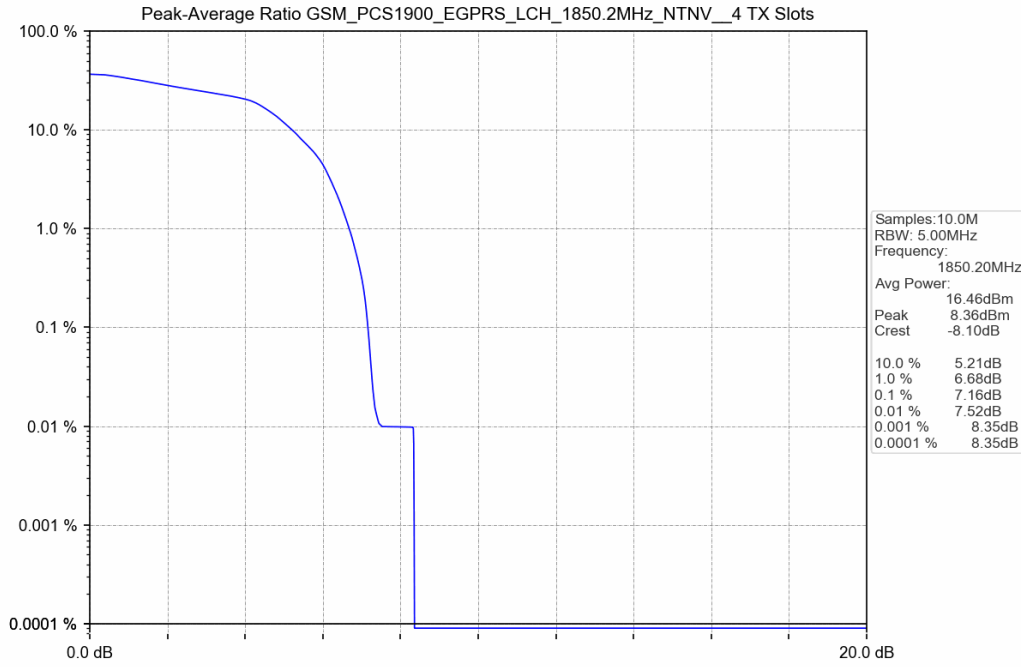


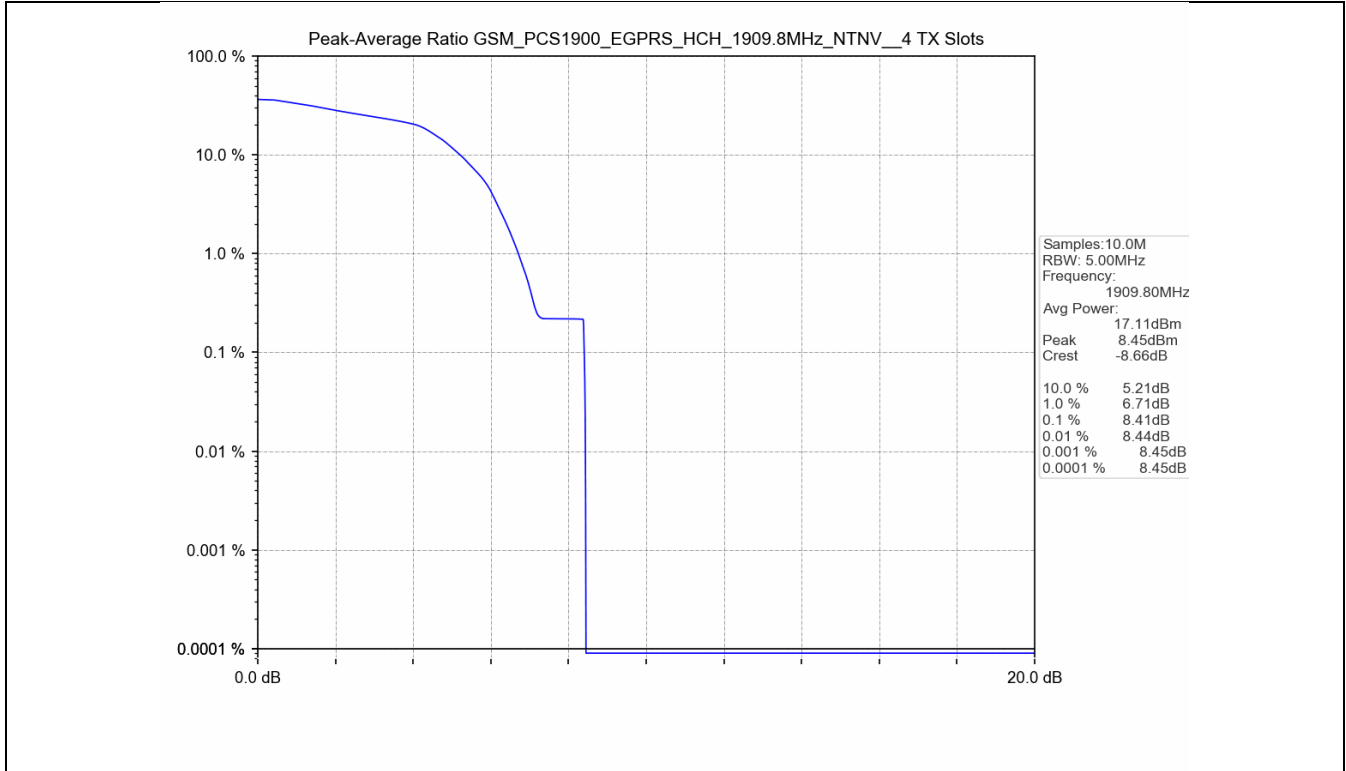
PCS 1900

Test Band: PCS1900					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
EGPRS	7.16	8.08	8.41	13	PASS
GPRS	3.70	3.14	2.73	13	PASS









5. Effective (Isotropic) Radiated Power Output Data

GSM 850

Test Band: GSM850											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
EGPRS	1 TX Slot	26.93	27.73	27.36	0.25	2.40	27.18	27.98	27.61	38.45	PASS
	2 TX Slots	25.87	26.75	26.36	0.25	2.40	26.12	27.00	26.61	38.45	PASS
	3 TX Slots	23.70	24.61	24.20	0.25	2.40	23.95	24.86	24.45	38.45	PASS
	4 TX Slots	22.43	23.33	22.96	0.25	2.40	22.68	23.58	23.21	38.45	PASS
GPRS	1 TX Slot	32.22	32.83	32.81	0.25	2.40	32.47	33.08	33.06	38.45	PASS
	2 TX Slots	31.62	32.25	32.23	0.25	2.40	31.87	32.50	32.48	38.45	PASS
	3 TX Slots	29.99	30.64	30.60	0.25	2.40	30.24	30.89	30.85	38.45	PASS
	4 TX Slots	28.82	29.49	29.43	0.25	2.40	29.07	29.74	29.68	38.45	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

PCS 1900

Test Band: PCS1900											
Test Mode		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		

EGPRS	1 TX Slot	26.02	26.14	26.41	/	2.10	28.12	28.24	28.51	33.01	PASS
	2 TX Slots	24.84	25.23	25.49	/	2.10	26.94	27.33	27.59	33.01	PASS
	3 TX Slots	22.72	23.12	23.32	/	2.10	24.82	25.22	25.42	33.01	PASS
	4 TX Slots	21.47	21.72	22.14	/	2.10	23.57	23.82	24.24	33.01	PASS
GPRS	1 TX Slot	29.27	29.40	29.85	/	2.10	31.37	31.50	31.95	33.01	PASS
	2 TX Slots	28.55	28.70	29.14	/	2.10	30.65	30.80	31.24	33.01	PASS
	3 TX Slots	26.82	26.98	27.43	/	2.10	28.92	29.08	29.53	33.01	PASS
	4 TX Slots	25.73	25.93	26.39	/	2.10	27.83	28.03	28.49	33.01	PASS

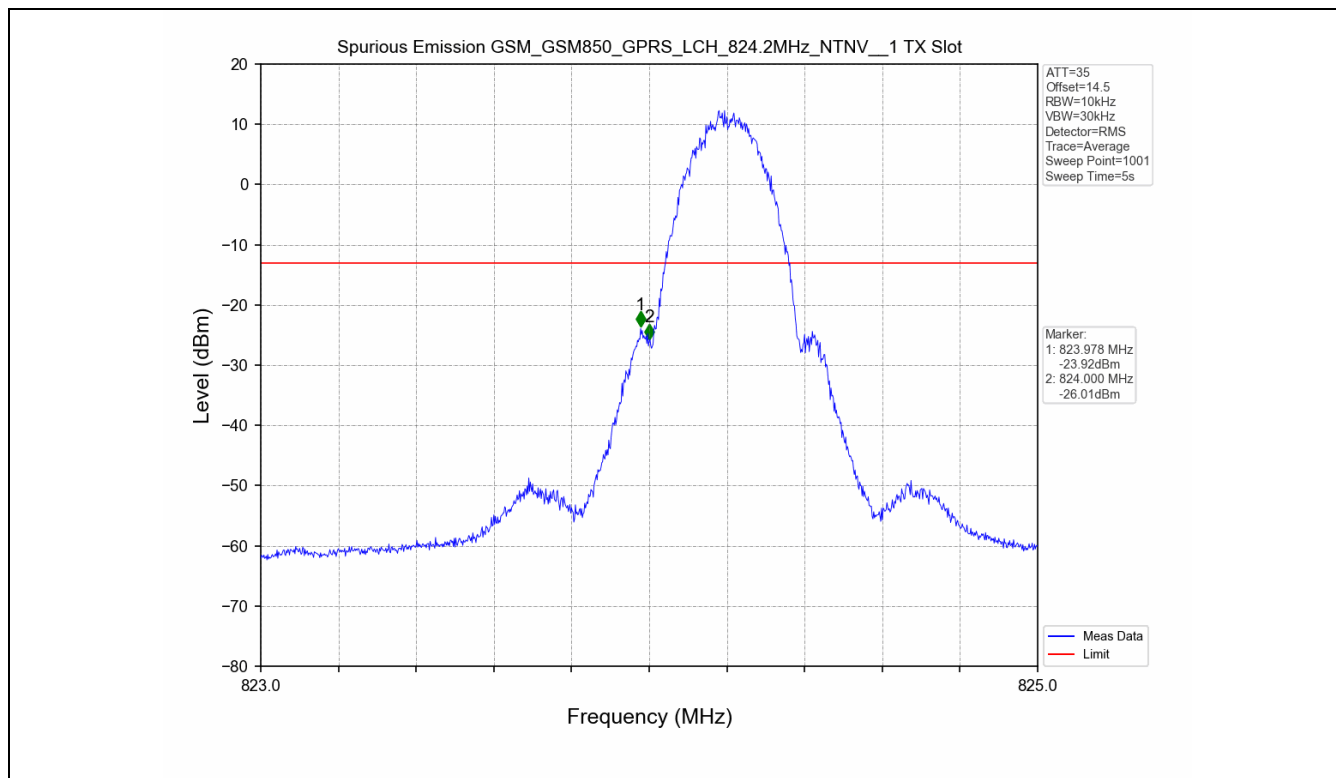
Note:

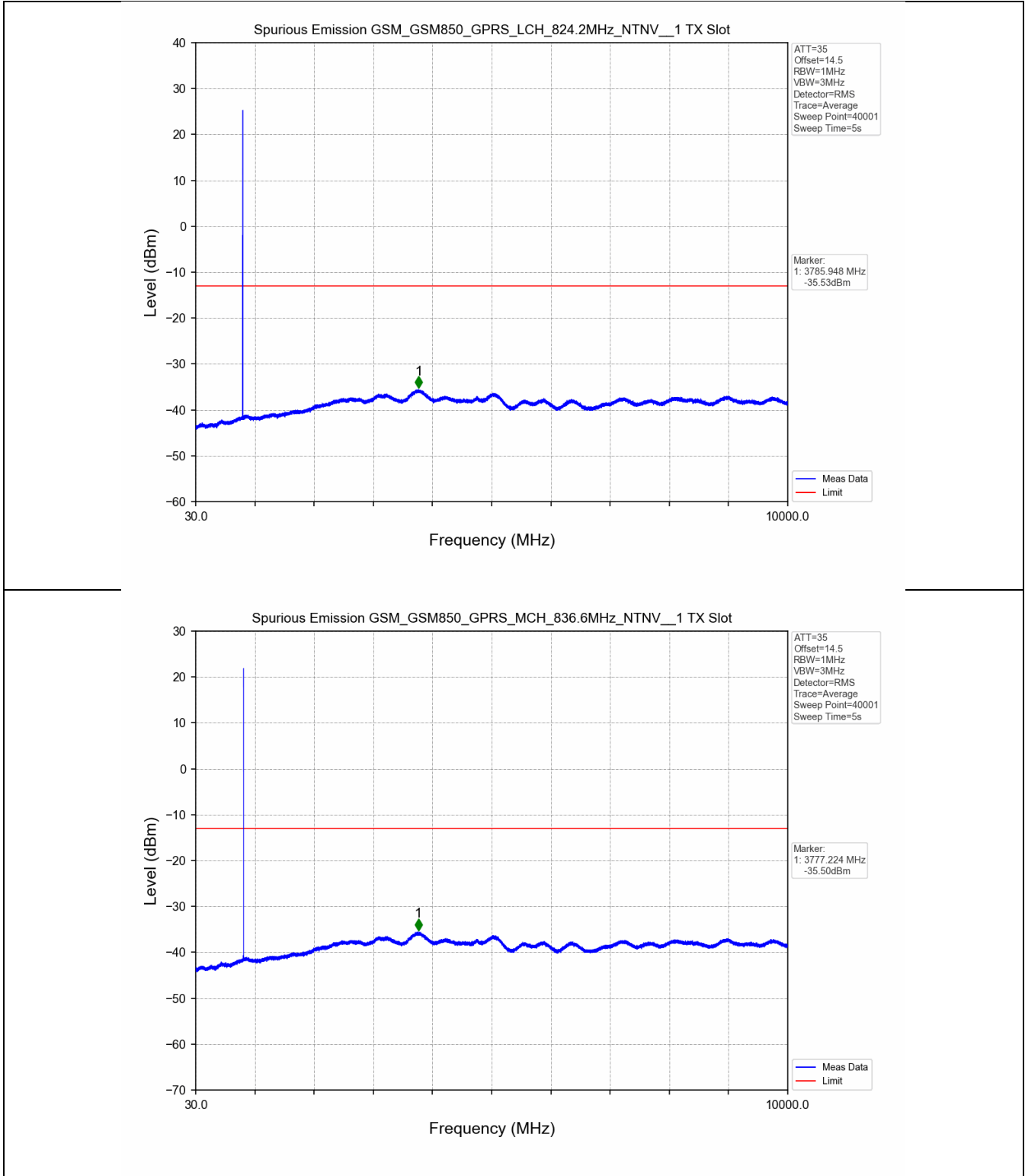
1) dBd = dBi - 2.15

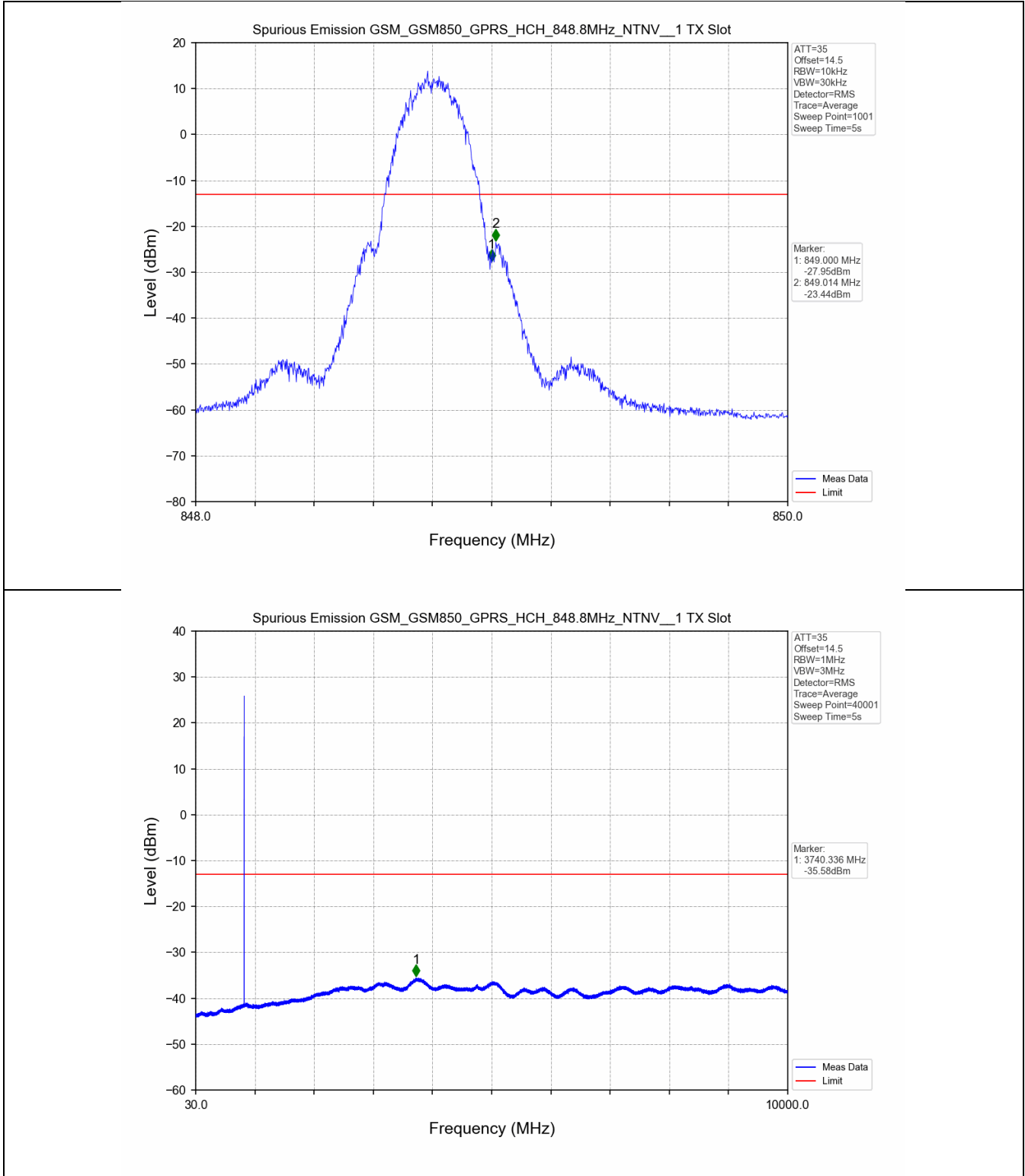
2) EIRP = Conducted output power + Antenna gain (dBi)

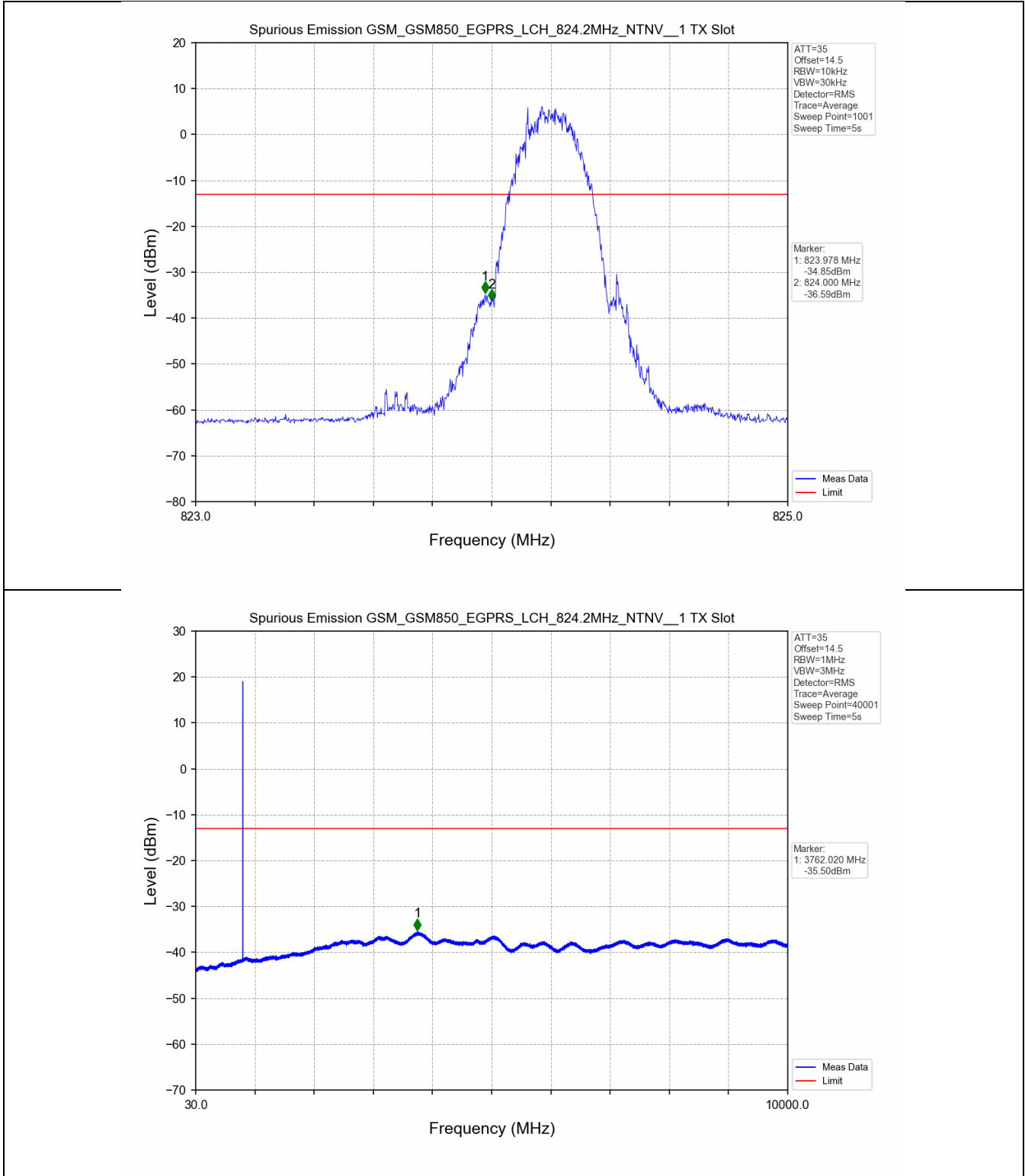
6. Spurious Emission

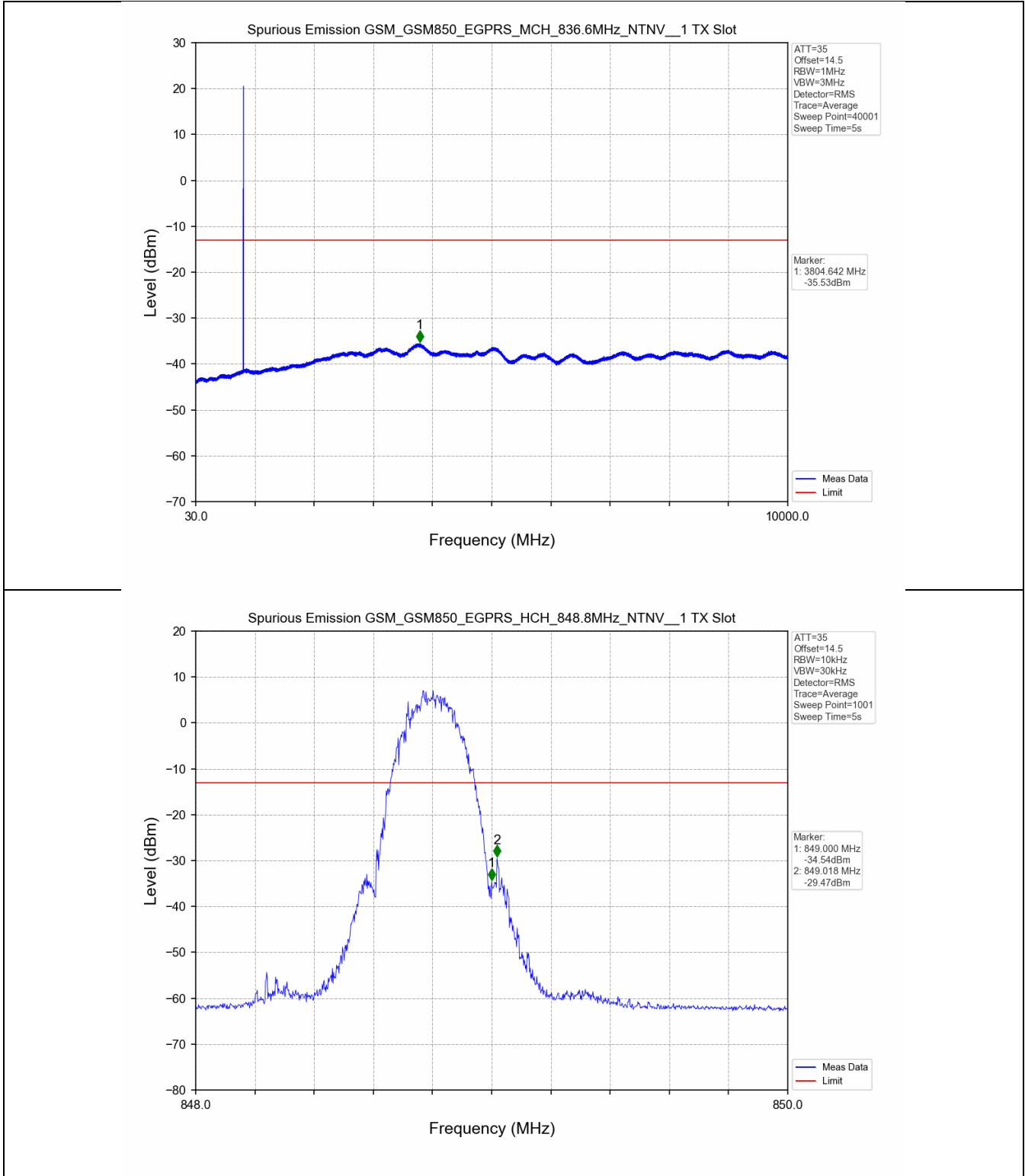
GSM 850

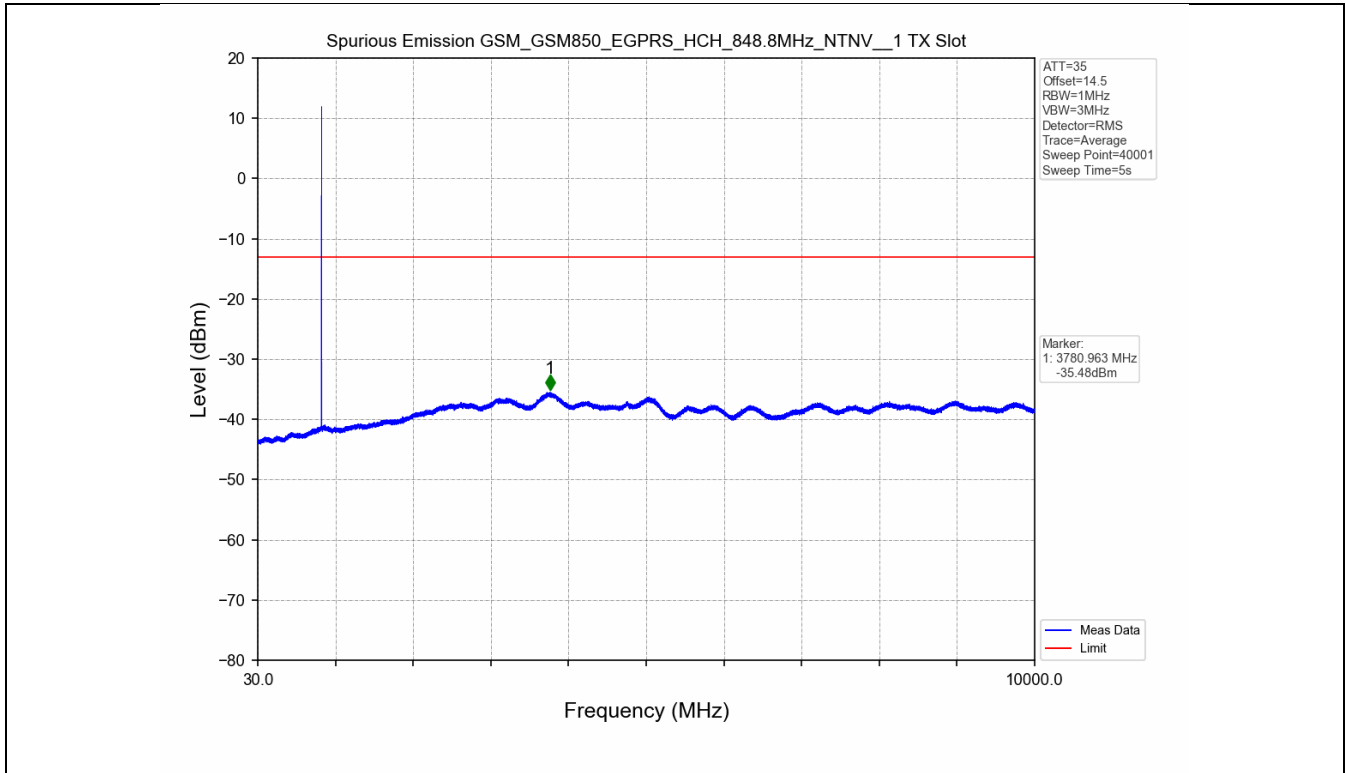












PCS 1900

