Appendix for Band EGSM900

TABLE OF CONTENTS

1. Transmitter - Frequency error and phase error

1.1 Test Result

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) PCL=5	NTNV	-2.42	88.02	PASS	RMS	0.37	5	PASS
					Peak	1.44	20	PASS
	HTHV	7.72	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.3	20	PASS
	HTLV	10.3	88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.45	20	PASS
	LTHV	0.16	88.02	PASS	RMS	0.36	5	PASS
					Peak	1.42	20	PASS
	LTLV	-3.36	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.41	20	PASS
	Vibration	-3.94	88.02	PASS	RMS	0.36	5	PASS
					Peak	1.24	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) PCL=12	NTNV	11.75	88.02	PASS	RMS	0.37	5	PASS
					Peak	1.39	20	PASS
	HTHV	8.62	88.02	PASS	RMS	0.36	5	PASS
					Peak	1.43	20	PASS
	HTLV	12.82	88.02	PASS	RMS	0.37	5	PASS
					Peak	1.5	20	PASS
	LTHV	11.17	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.3	20	PASS
	LTLV	11.66	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.34	20	PASS
	Vibration	11.49	88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.34	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) PCL=19	NTNV	-5.49	88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.39	20	PASS
	HTHV	13.53	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.42	20	PASS
	HTLV	10.75	88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.24	20	PASS
	LTHV	11.59	88.02	PASS	RMS	0.36	5	PASS
					Peak	1.21	20	PASS
	LTLV	-6.59	88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.39	20	PASS
	Vibration	-6.39	88.02	PASS	RMS	0.35	5	PASS
					Peak	-1.32	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4	NTNV	-0.19	90.24	PASS	RMS	0.46	5	PASS
					Peak	1.72	20	PASS
	HTHV	16.95	90.24	PASS	RMS	0.46	5	PASS
					Peak	1.46	20	PASS

(MHz) PCL=5	HTLV	16.63	90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.61	20	PASS
	LTHV	10.07	90.24	PASS	RMS	0.46	5	PASS
					Peak	1.71	20	PASS
	LTLV	-1.58	90.24	PASS	RMS	0.47	5	PASS
					Peak	1.71	20	PASS
	Vibration	0.61	90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.56	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) PCL=12	NTNV	21.92	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.63	20	PASS
	HTHV	0.39	90.24	PASS	RMS	0.44	5	PASS
					Peak	-1.55	20	PASS
	HTLV	14.04	90.24	PASS	RMS	0.43	5	PASS
					Peak	1.67	20	PASS
	LTHV	16.92	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.69	20	PASS
	LTLV	15.46	90.24	PASS	RMS	0.44	5	PASS
					Peak	-1.59	20	PASS
	Vibration	15.24	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.56	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) PCL=19	NTNV	22.28	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.76	20	PASS
	HTHV	1.97	90.24	PASS	RMS	0.43	5	PASS
					Peak	-1.55	20	PASS
	HTLV	17.89	90.24	PASS	RMS	0.43	5	PASS
					Peak	-1.56	20	PASS
	LTHV	21.63	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.48	20	PASS
	LTLV	16.82	90.24	PASS	RMS	0.44	5	PASS
					Peak	1.46	20	PASS
	Vibration	20.11	90.24	PASS	RMS	0.44	5	PASS
					Peak	-1.55	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) PCL=5	NTNV	-3.2	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.53	20	PASS
	HTHV	1.36	91.48	PASS	RMS	0.37	5	PASS
					Peak	-1.37	20	PASS
	HTLV	-1.52	91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.29	20	PASS
	LTHV	-2.91	91.48	PASS	RMS	0.37	5	PASS
					Peak	1.4	20	PASS
	LTLV	-1.87	91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.33	20	PASS
	Vibration	-1.45	91.48	PASS	RMS	0.37	5	PASS
					Peak	1.49	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) PCL=12	NTNV	4.29	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.34	20	PASS
	HTHV	4.46	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.65	20	PASS
	HTLV	5.42	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.55	20	PASS
	LTHV	5.46	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.52	20	PASS
	LTLV	3	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.33	20	PASS
	Vibration	6.26	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.42	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) PCL=19	NTNV	6.39	91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.48	20	PASS
	HTHV	2.52	91.48	PASS	RMS	0.37	5	PASS
					Peak	1.52	20	PASS
	HTLV	6.94	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.36	20	PASS
	LTHV	5.1	91.48	PASS	RMS	0.35	5	PASS
					Peak	-1.37	20	PASS
	LTLV	7.97	91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.4	20	PASS
	Vibration	11.07	91.48	PASS	RMS	0.36	5	PASS
					Peak	1.3	20	PASS

2. Transmitter - Frequency error under multipath and interference conditions

2.1 Test Result

EGSM900	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
EGSM900 PCL=5	NTNV	RA250	RA250=-3.36	RA250=10.2	RA250=-2.55	±300	PASS
		HT100	HT100=-4	HT100=-1.42	HT100=-4.04	±180	PASS
		TU3	TU3=-0.48	TU3=7.78	TU3=-1.16	±230	PASS
		TU50	TU50=-5.52	TU50=7.78	TU50=0.71	±160	PASS
	HTHV	RA250	RA250=6.88	RA250=9.14	RA250=4.94	±300	PASS
		HT100	HT100=7.1	HT100=15.79	HT100=-2.65	±180	PASS
		TU3	TU3=0.19	TU3=0.36	TU3=-0.84	±230	PASS
		TU50	TU50=-1.84	TU50=4.16	TU50=1.19	±160	PASS
	HTLV	RA250	RA250=-3.78	RA250=1.26	RA250=0.13	±300	PASS
		HT100	HT100=-4.13	HT100=4.65	HT100=-0.84	±180	PASS

		TU3	TU3=-3.52	TU3=5.52	TU3=-0.84	±230	PASS
		TU50	TU50=-4.46	TU50=4.33	TU50=1.1	±160	PASS
	LTHV	RA250	RA250=-2.52	RA250=11.17	RA250=-0.29	±300	PASS
		HT100	HT100=-5.55	HT100=5.81	HT100=-0.9	±180	PASS
		TU3	TU3=-2.45	TU3=0.87	TU3=-0.94	±230	PASS
		TU50	TU50=-4.42	TU50=9.65	TU50=0.77	±160	PASS
	LTLV	RA250	RA250=-4.49	RA250=6.75	RA250=0.39	±300	PASS
		HT100	HT100=-4.94	HT100=-2.2	HT100=-1.52	±180	PASS
		TU3	TU3=-1.74	TU3=-1.49	TU3=0.65	±230	PASS
		TU50	TU50=-2.55	TU50=8.23	TU50=-2.32	±160	PASS

EGSM900	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
EGSM900 PCL=12	NTNV	RA250	RA250=-6.84	RA250=18.11	RA250=-1.39	±300	PASS
		HT100	HT100=-5.94	HT100=9.17	HT100=-4.84	±180	PASS
		TU3	TU3=-4.75	TU3=11.62	TU3=-4.1	±230	PASS
		TU50	TU50=-6.52	TU50=10.4	TU50=-4.46	±160	PASS
	HTHV	RA250	RA250=-2.42	RA250=2.81	RA250=1.97	±300	PASS
		HT100	HT100=11.69	HT100=14.92	HT100=16.56	±180	PASS
		TU3	TU3=-2.58	TU3=16.08	TU3=-4.23	±230	PASS
		TU50	TU50=9.98	TU50=15.56	TU50=14.14	±160	PASS
	HTLV	RA250	RA250=-6.2	RA250=18.21	RA250=-4.04	±300	PASS
		HT100	HT100=-7.01	HT100=9.07	HT100=-3.68	±180	PASS
		TU3	TU3=-6.91	TU3=16.34	TU3=-3	±230	PASS
		TU50	TU50=-6.26	TU50=21.18	TU50=-4.13	±160	PASS
	LTHV	RA250	RA250=-5.91	RA250=14.24	RA250=-3.03	±300	PASS
		HT100	HT100=-5.39	HT100=14.79	HT100=-2.78	±180	PASS
		TU3	TU3=-4.29	TU3=17.34	TU3=-6.55	±230	PASS
		TU50	TU50=-6.75	TU50=14.88	TU50=-3.62	±160	PASS
	LTLV	RA250	RA250=-6.2	RA250=12.75	RA250=-4.52	±300	PASS
		HT100	HT100=-5.68	HT100=17.92	HT100=-2.07	±180	PASS
		TU3	TU3=-5.42	TU3=11.46	TU3=-2.32	±230	PASS

		TU50	TU50=-6.26	TU50=13.17	TU50=-2.58	±160	PASS

EGSM900	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
EGSM900 PCL=19	NTNV	RA250	RA250=7.78	RA250=15.79	RA250=-2.23	±300	PASS
		HT100	HT100=7.14	HT100=8.23	HT100=-1.26	±180	PASS
		TU3	TU3=6.17	TU3=10.33	TU3=-2.39	±230	PASS
		TU50	TU50=7.49	TU50=11.4	TU50=-2.23	±160	PASS
	HTHV	RA250	RA250=9.2	RA250=15.05	RA250=17.05	±300	PASS
		HT100	HT100=11.11	HT100=16.18	HT100=16.85	±180	PASS
		TU3	TU3=10.75	TU3=21.18	TU3=-3.65	±230	PASS
		TU50	TU50=11.36	TU50=15.98	TU50=15.82	±160	PASS
	HTLV	RA250	RA250=4.55	RA250=22.57	RA250=-2.71	±300	PASS
		HT100	HT100=6.2	HT100=21.92	HT100=-3.91	±180	PASS
		TU3	TU3=6.75	TU3=8.36	TU3=-1.68	±230	PASS
		TU50	TU50=5	TU50=17.79	TU50=-3.13	±160	PASS
	LTHV	RA250	RA250=6.07	RA250=14.14	RA250=-3.26	±300	PASS
		HT100	HT100=5.36	HT100=7.62	HT100=-0.68	±180	PASS
		TU3	TU3=6.94	TU3=20.15	TU3=-2.55	±230	PASS
		TU50	TU50=6.91	TU50=17.85	TU50=-2.07	±160	PASS
	LTLV	RA250	RA250=7.17	RA250=7.62	RA250=-2.78	±300	PASS
		HT100	HT100=8.04	HT100=14.98	HT100=-2.26	±180	PASS
		TU3	TU3=6.07	TU3=9.75	TU3=-1.16	±230	PASS
		TU50	TU50=6.65	TU50=12.82	TU50=-0.32	±160	PASS

3. Frequency error and phase error in GPRS multislot configuration

3.1 Test Result

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz)	NTNV	15.17	±88.02	PASS	RMS	0.37	5	PASS
					Peak	1.37	20	PASS
	HTHV	15.85	±88.02	PASS	RMS	0.37	5	PASS
					Peak	1.44	20	PASS
	HTLV	16.5	±88.02	PASS	RMS	0.36	5	PASS

GAMMA=3					Peak	1.24	20	PASS
	LTHV	15.82	±88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.45	20	PASS
	LTLV	16.24	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.38	20	PASS
	Vibration	15.85	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.45	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) GAMMA=10	NTNV	15.37	±88.02	PASS	RMS	0.36	5	PASS
					Peak	1.6	20	PASS
	HTHV	12.4	±88.02	PASS	RMS	0.37	5	PASS
					Peak	-1.25	20	PASS
	HTLV	13.11	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.25	20	PASS
	LTHV	11.98	±88.02	PASS	RMS	0.37	5	PASS
					Peak	1.43	20	PASS
	LTLV	11.78	±88.02	PASS	RMS	0.35	5	PASS
					Peak	1.41	20	PASS
	Vibration	13.08	±88.02	PASS	RMS	0.36	5	PASS
					Peak	1.5	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) GAMMA=17	NTNV	16.27	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.39	20	PASS
	HTHV	15.46	±88.02	PASS	RMS	0.36	5	PASS
					Peak	1.23	20	PASS
	HTLV	14.46	±88.02	PASS	RMS	0.35	5	PASS
					Peak	-1.4	20	PASS
	LTHV	17.79	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.36	20	PASS
	LTLV	16.5	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.38	20	PASS
	Vibration	19.15	±88.02	PASS	RMS	0.36	5	PASS
					Peak	-1.39	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) GAMMA=3	NTNV	18.34	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.51	20	PASS
	HTHV	25.25	±90.24	PASS	RMS	0.48	5	PASS
					Peak	1.69	20	PASS
	HTLV	22.83	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.58	20	PASS
	LTHV	19.82	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.98	20	PASS
	LTLV	23.92	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.56	20	PASS
	Vibration	15.72	±90.24	PASS	RMS	0.47	5	PASS
					Peak	1.42	20	PASS

EGSM900	Test	Frequency	Limit	Result	Phase Error		Limit	Result

	Condition	Error(Hz)	(Hz)		(degree)		(degree)	
Reference Frequency 902.4 (MHz) GAMMA=10	NTNV	18.56	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.61	20	PASS
	HTHV	21.24	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.6	20	PASS
	HTLV	14.69	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.71	20	PASS
	LTHV	16.92	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.52	20	PASS
	LTLV	18.66	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.62	20	PASS
	Vibration	17.98	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.64	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) GAMMA=17	NTNV	23.37	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.64	20	PASS
	HTHV	14.24	±90.24	PASS	RMS	0.46	5	PASS
					Peak	-1.53	20	PASS
	HTLV	16.98	±90.24	PASS	RMS	0.48	5	PASS
					Peak	-1.76	20	PASS
	LTHV	20.4	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.86	20	PASS
	LTLV	23.05	±90.24	PASS	RMS	0.48	5	PASS
					Peak	-1.49	20	PASS
	Vibration	22.31	±90.24	PASS	RMS	0.47	5	PASS
					Peak	-1.51	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) GAMMA=3	NTNV	16.34	±91.48	PASS	RMS	0.37	5	PASS
					Peak	-1.48	20	PASS
	HTHV	17.95	±91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.51	20	PASS
	HTLV	17.21	±91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.41	20	PASS
	LTHV	19.27	±91.48	PASS	RMS	0.35	5	PASS
					Peak	1.69	20	PASS
	LTLV	18.44	±91.48	PASS	RMS	0.38	5	PASS
					Peak	1.37	20	PASS
	Vibration	16.95	±91.48	PASS	RMS	0.36	5	PASS
					Peak	1.34	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) GAMMA=10	NTNV	13.75	±91.48	PASS	RMS	0.37	5	PASS
					Peak	-1.41	20	PASS
	HTHV	14.01	±91.48	PASS	RMS	0.38	5	PASS
					Peak	1.35	20	PASS
	HTLV	14.24	±91.48	PASS	RMS	0.37	5	PASS
					Peak	1.58	20	PASS
	LTHV	13.17	±91.48	PASS	RMS	0.38	5	PASS
					Peak	1.4	20	PASS
	LTLV	13.88	±91.48	PASS	RMS	0.36	5	PASS

					Peak	-1.42	20	PASS
	Vibration	13.59	±91.48	PASS	RMS	0.37	5	PASS
					Peak	-1.37	20	PASS

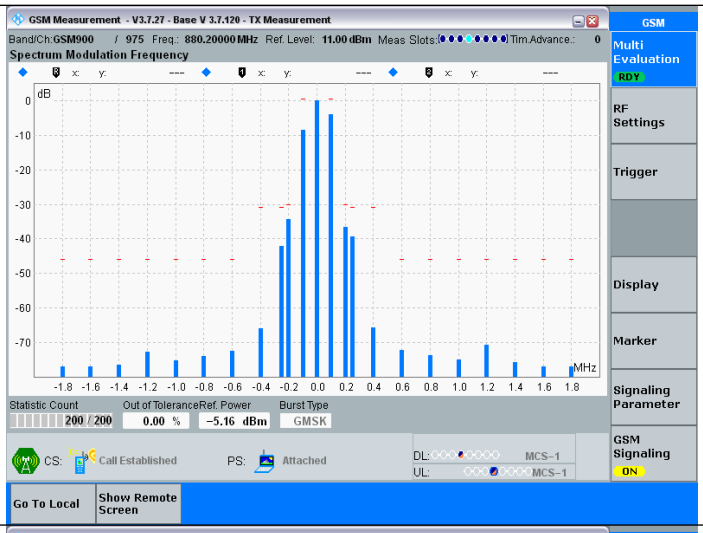
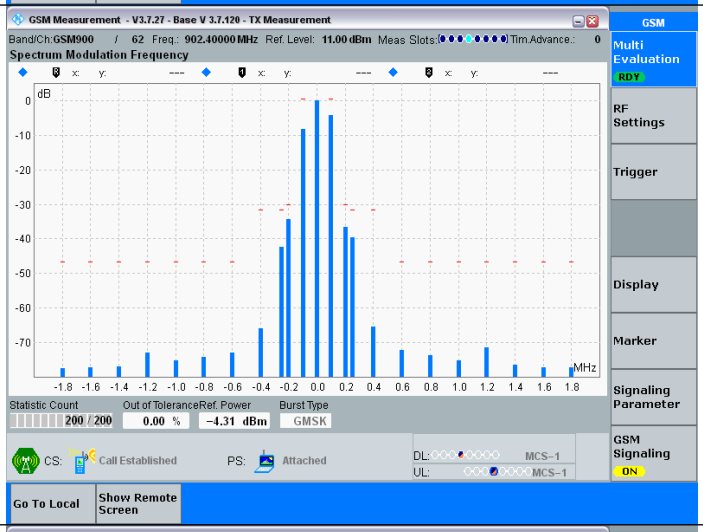
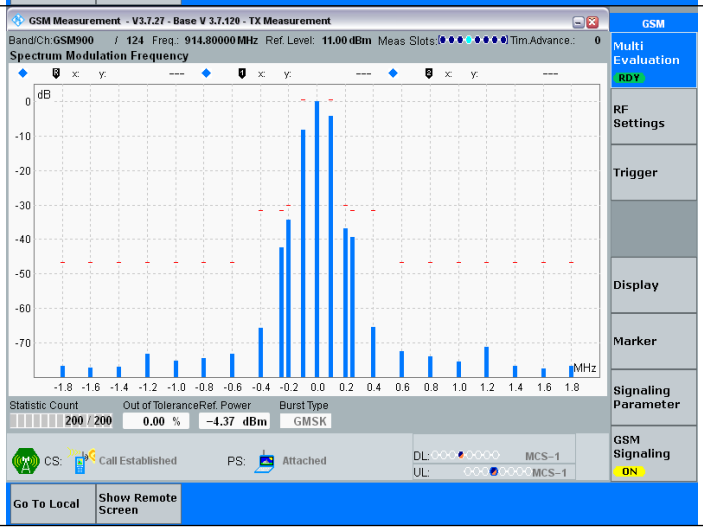
EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) GAMMA=17	NTNV	17.56	±91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.29	20	PASS
	HTHV	15.59	±91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.54	20	PASS
	HTLV	15.01	±91.48	PASS	RMS	0.37	5	PASS
					Peak	1.43	20	PASS
	LTHV	16.47	±91.48	PASS	RMS	0.36	5	PASS
					Peak	1.3	20	PASS
	LTLV	17.18	±91.48	PASS	RMS	0.37	5	PASS
					Peak	-1.33	20	PASS
	Vibration	19.05	±91.48	PASS	RMS	0.36	5	PASS
					Peak	-1.52	20	PASS

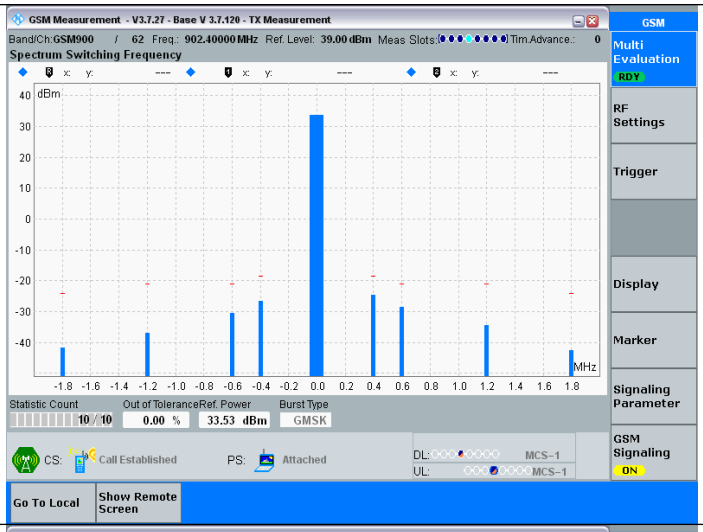
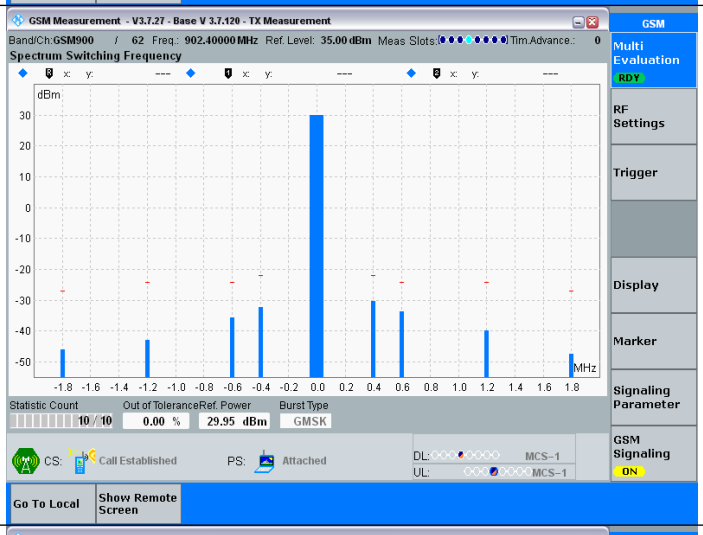
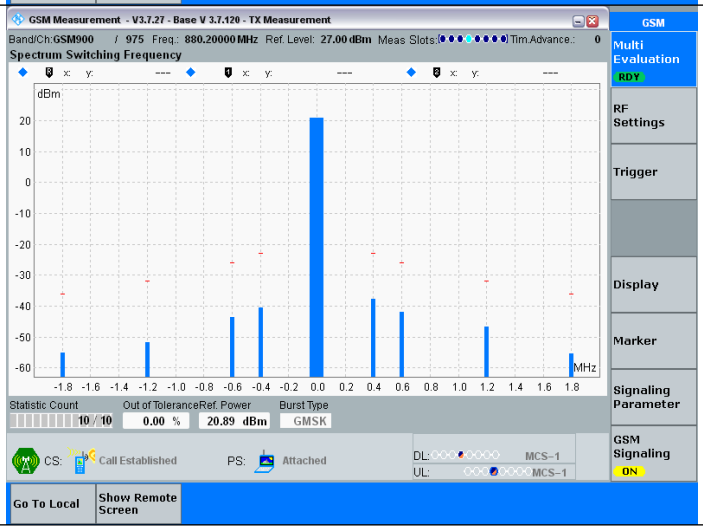
4. Transmitter - Output RF spectrum

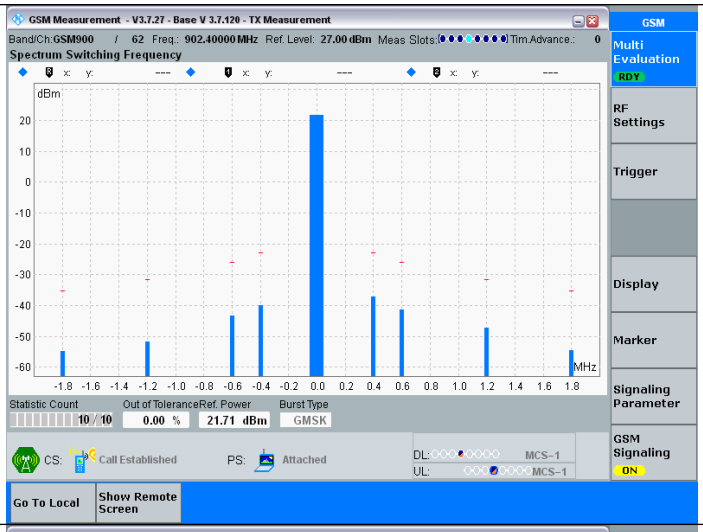
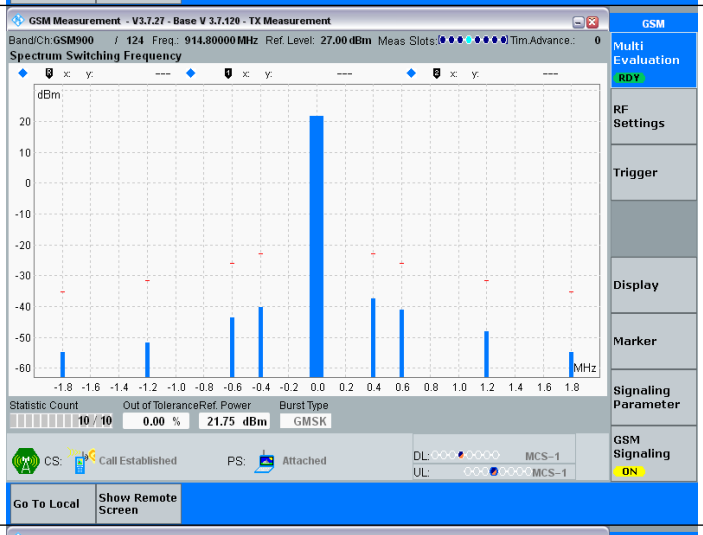
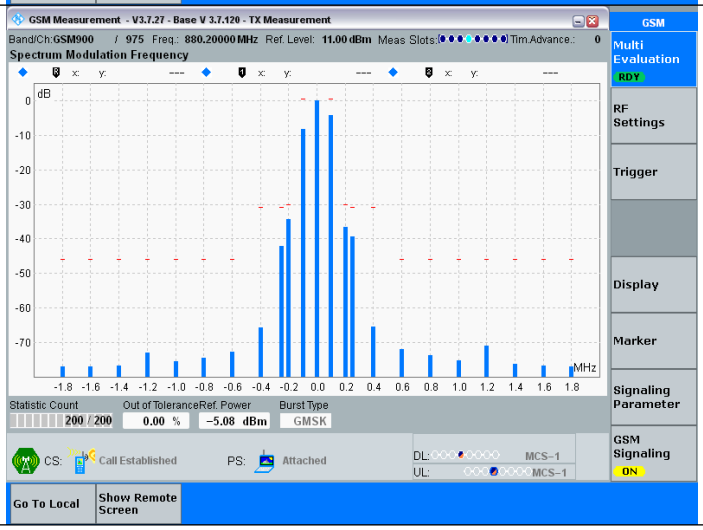
4.1 Test Result

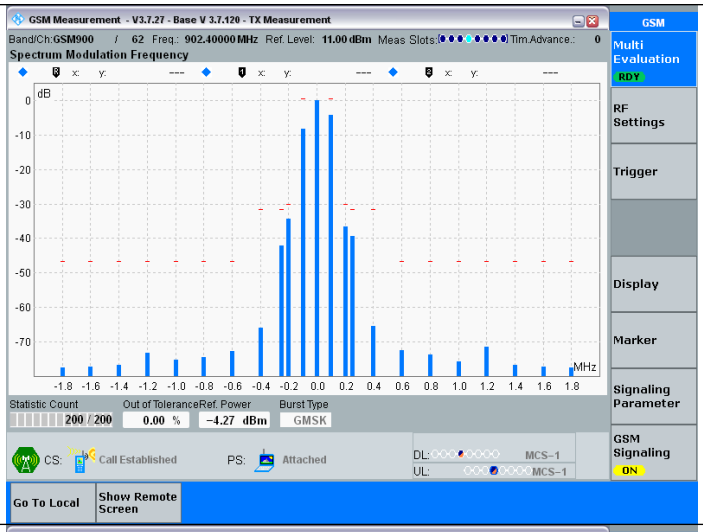
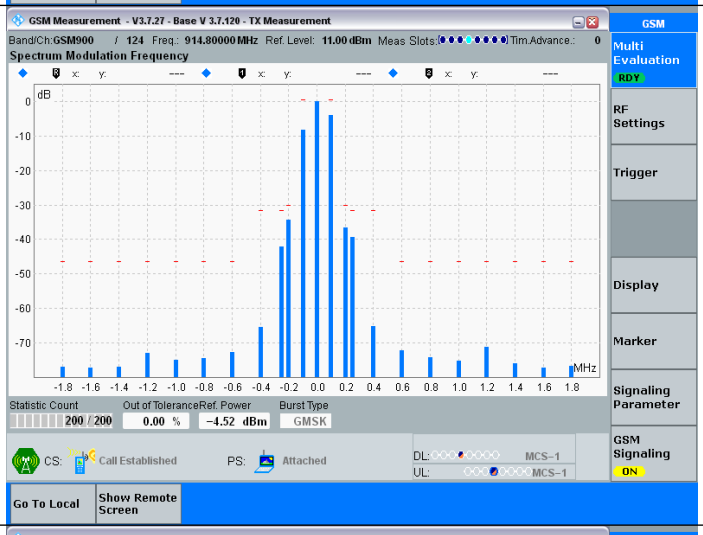
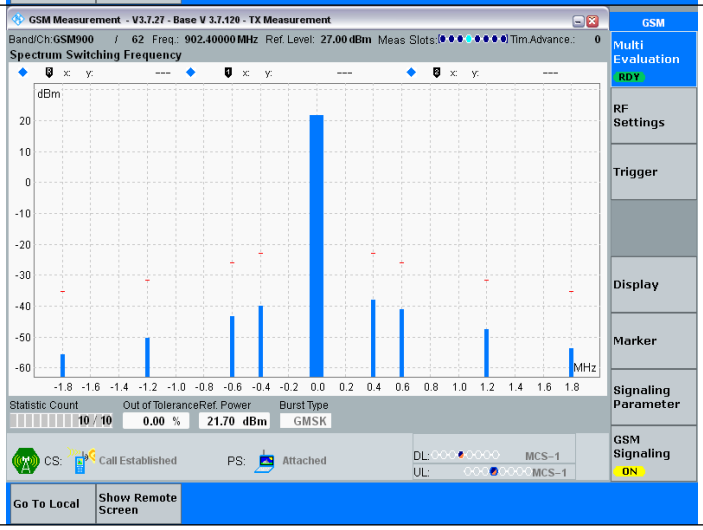
Test Mode	Test Condition	Case No.	PCL	Channel	Verdict
EGSM900	NTNV	1	05	MCH	PASS
		2	19	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	05	MCH	PASS
			07	MCH	PASS
			11	LCH	PASS
				MCH	PASS
				HCH	PASS
	HTHV	2	19	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	11	MCH	PASS
	HTLV	2	19	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	11	MCH	PASS
	LTHV	2	19	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	11	MCH	PASS
	LTLV	2	19	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	11	MCH	PASS

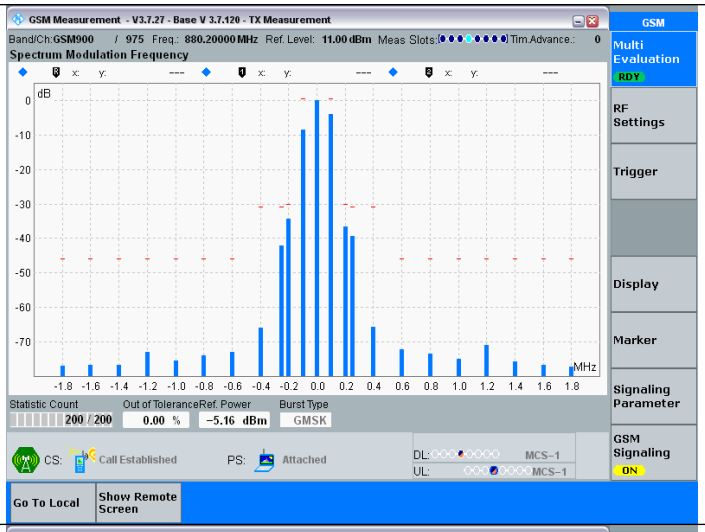
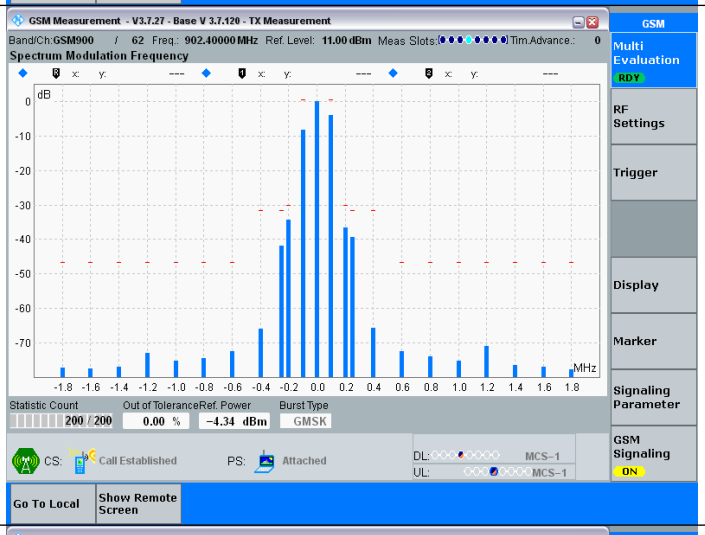
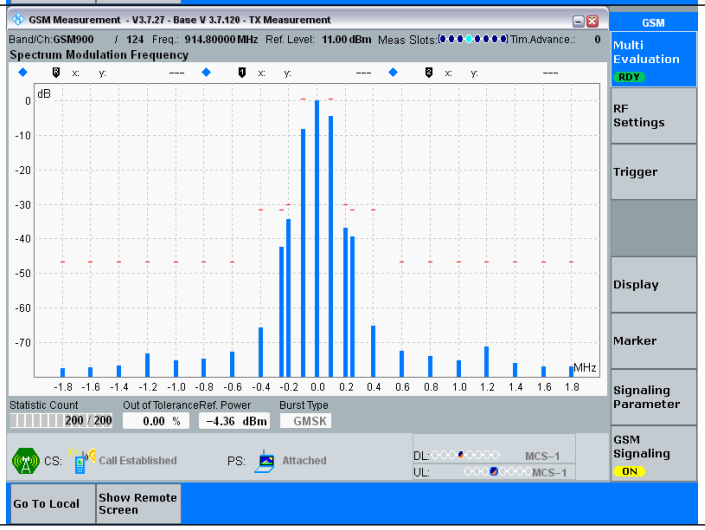
4.2 Test Graph

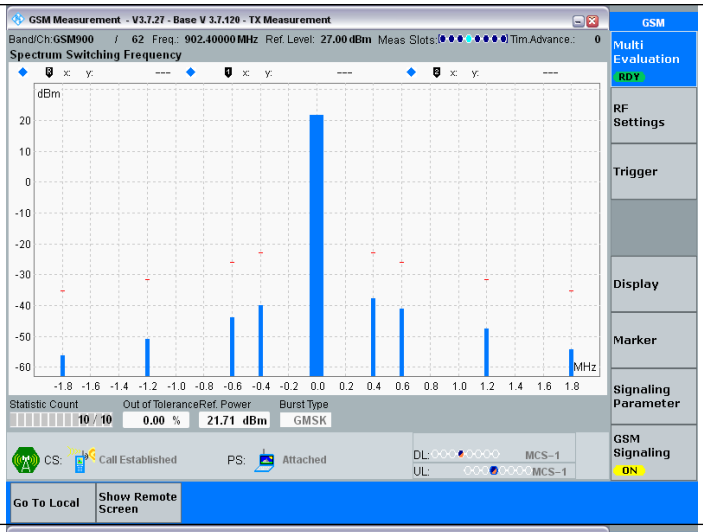
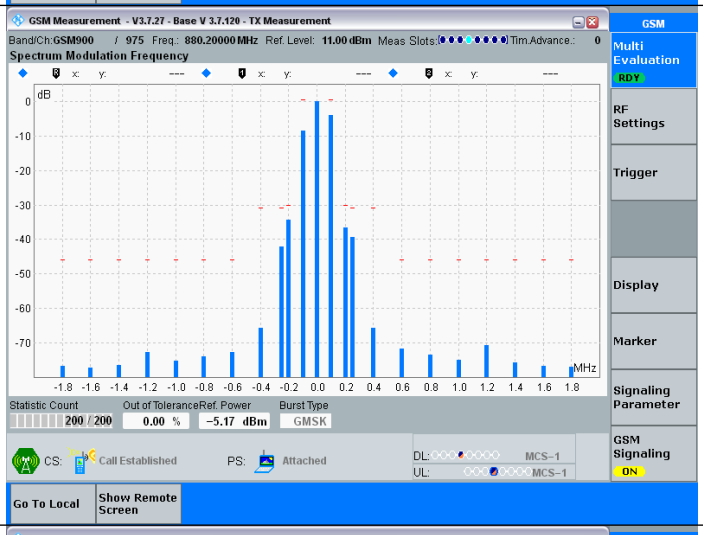
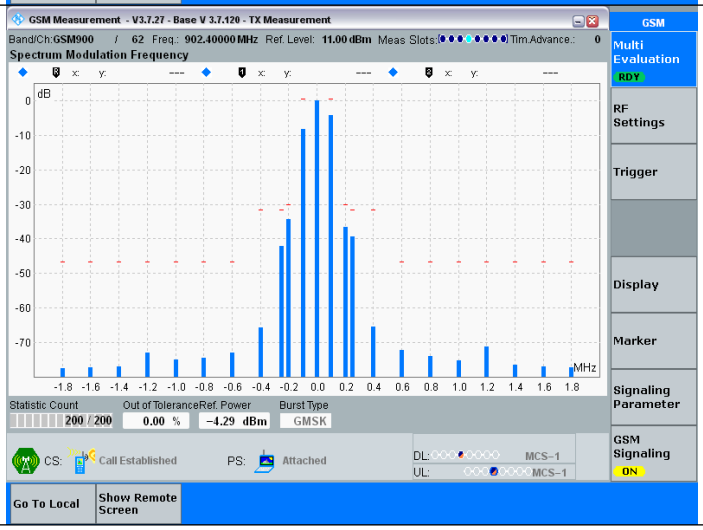
NTNV GSM Frequency: 880.2 Spectrum Modulation	
NTNV GSM Frequency: 902.4 Spectrum Modulation	
NTNV GSM Frequency: 914.8 Spectrum Modulation	

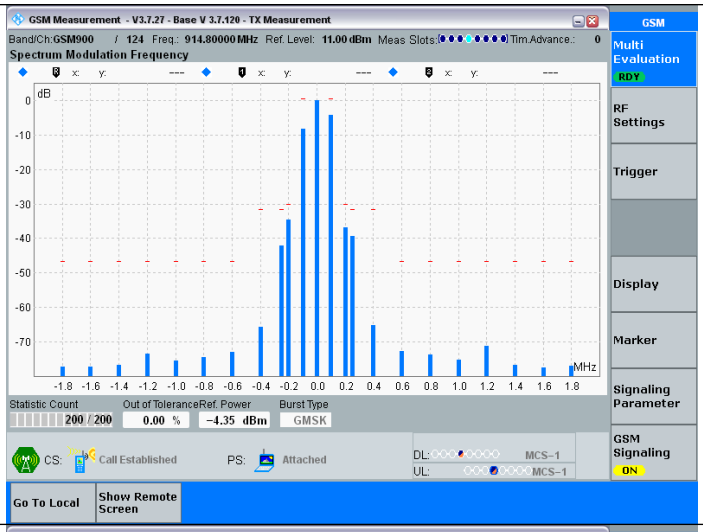
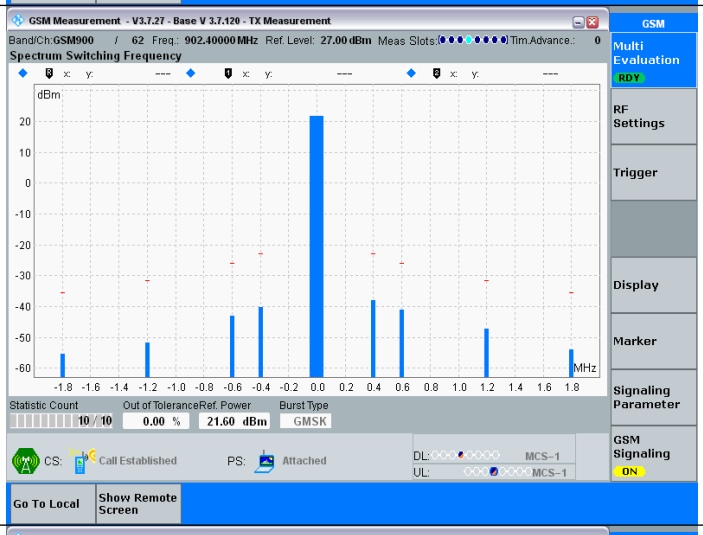
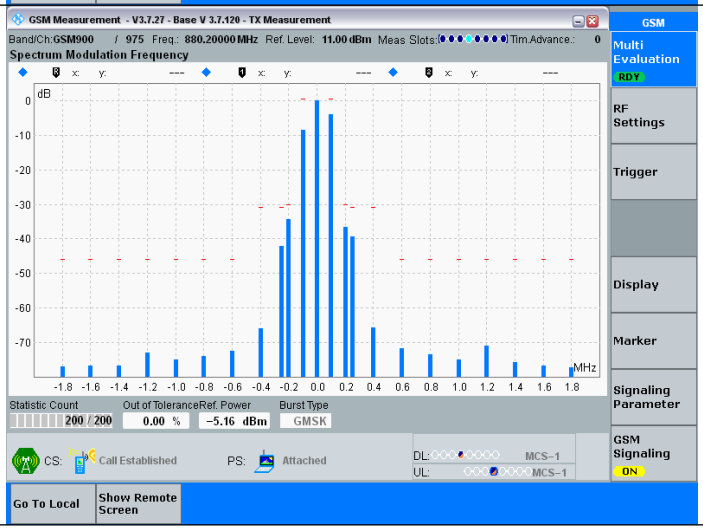
NTNV GSM Frequency: 902.4 Spectrum Switching	
NTNV GSM Frequency: 902.4 Spectrum Switching	
NTNV GSM Frequency: 880.2 Spectrum Switching	

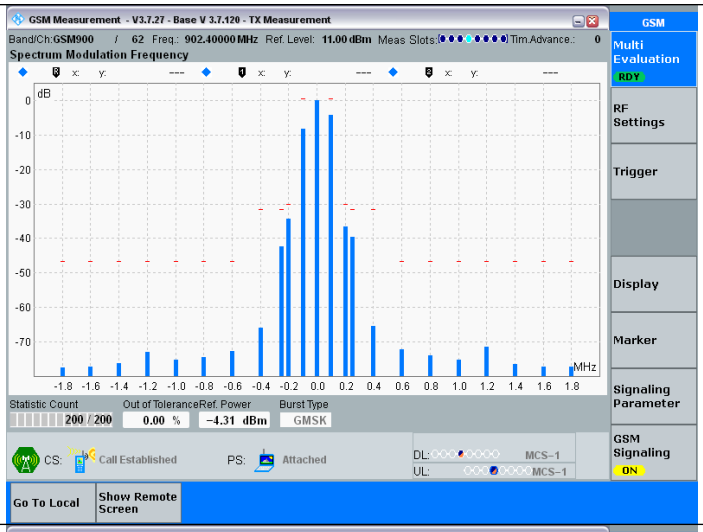
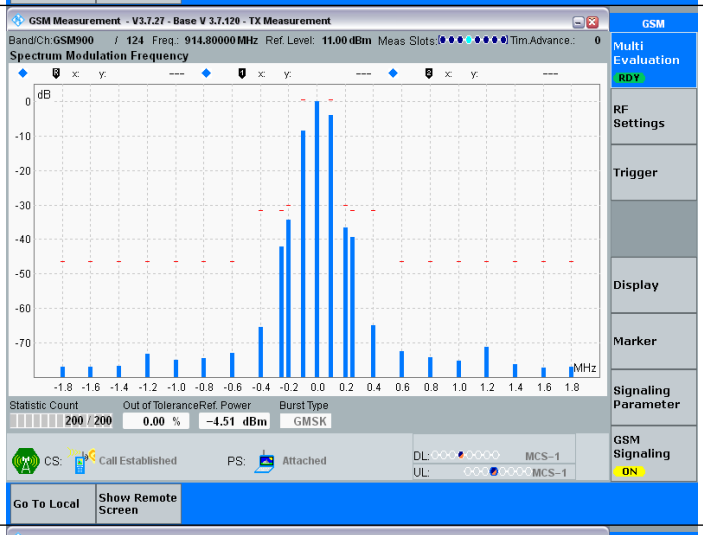
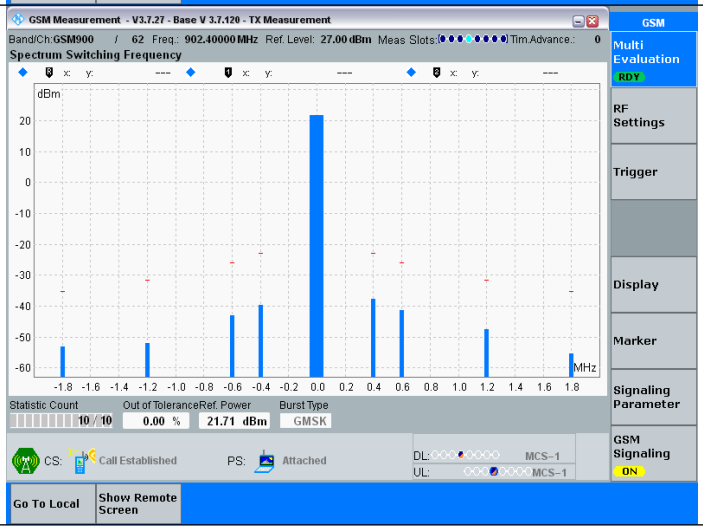
NTNV GSM Frequency: 902.4 Spectrum Switching	
NTNV GSM Frequency: 914.8 Spectrum Switching	
HTHV GSM Frequency: 880.2 Spectrum Modulation	

HTHV GSM Frequency: 902.4 Spectrum Modulation	
HTHV GSM Frequency: 914.8 Spectrum Modulation	
HTHV GSM Frequency: 902.4 Spectrum Switching	

HTLV GSM Frequency: 880.2 Spectrum Modulation	
HTLV GSM Frequency: 902.4 Spectrum Modulation	
HTLV GSM Frequency: 914.8 Spectrum Modulation	

HTLV GSM Frequency: 902.4 Spectrum Switching	
LTHV GSM Frequency: 880.2 Spectrum Modulation	
LTHV GSM Frequency: 902.4 Spectrum Modulation	

LTHV GSM Frequency: 914.8 Spectrum Modulation	
LTHV GSM Frequency: 902.4 Spectrum Switching	
LTLV GSM Frequency: 880.2 Spectrum Modulation	

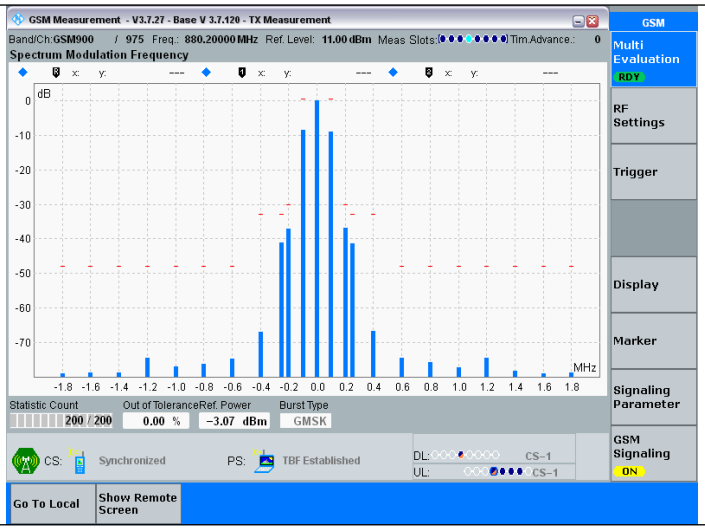
LTLV GSM Frequency: 902.4 Spectrum Modulation	
LTLV GSM Frequency: 914.8 Spectrum Modulation	
LTLV GSM Frequency: 902.4 Spectrum Switching	

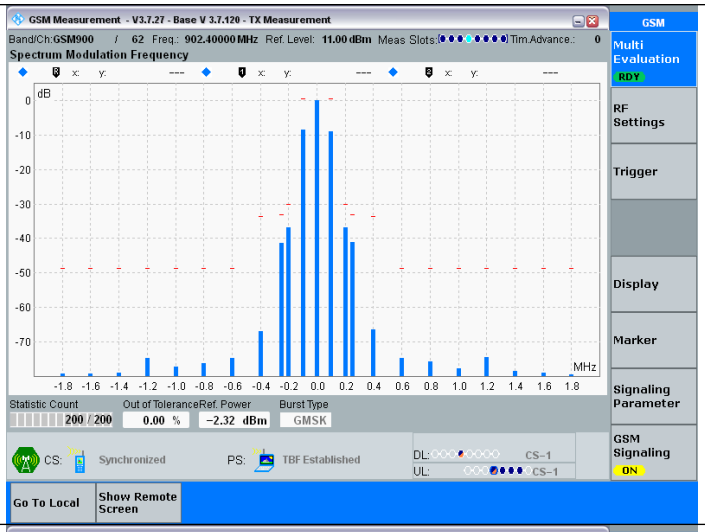
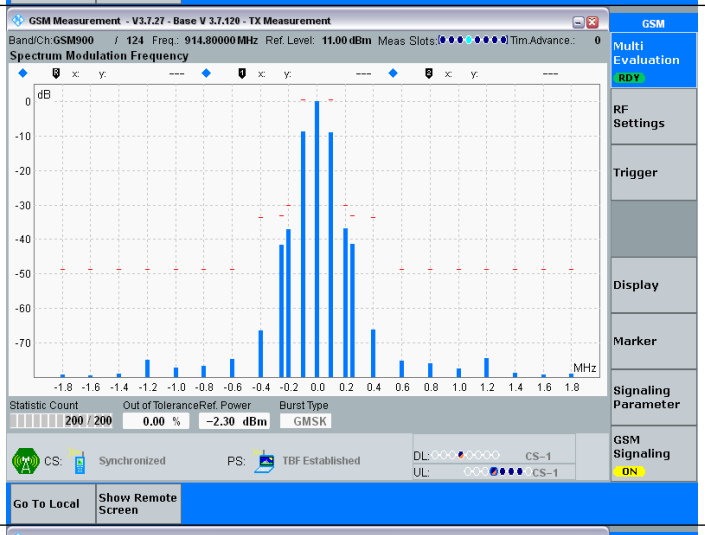
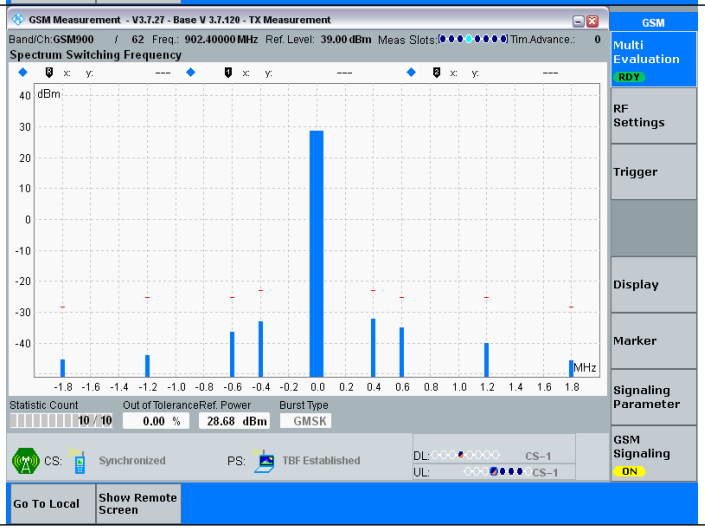
5. Output RF spectrum in GPRS multislot configuration

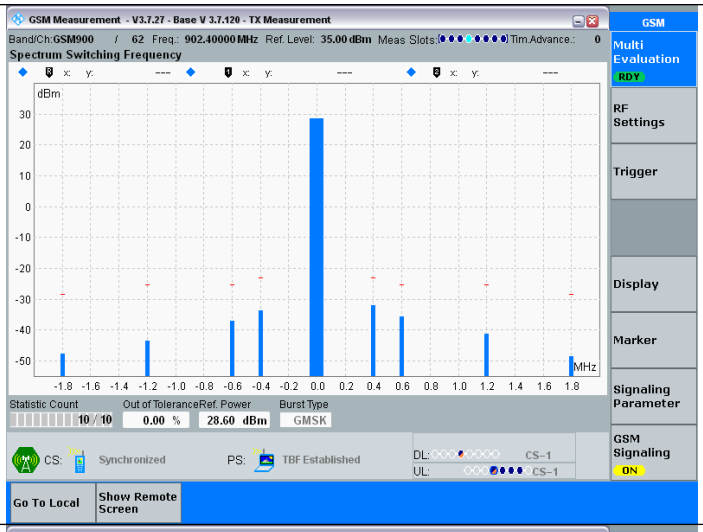
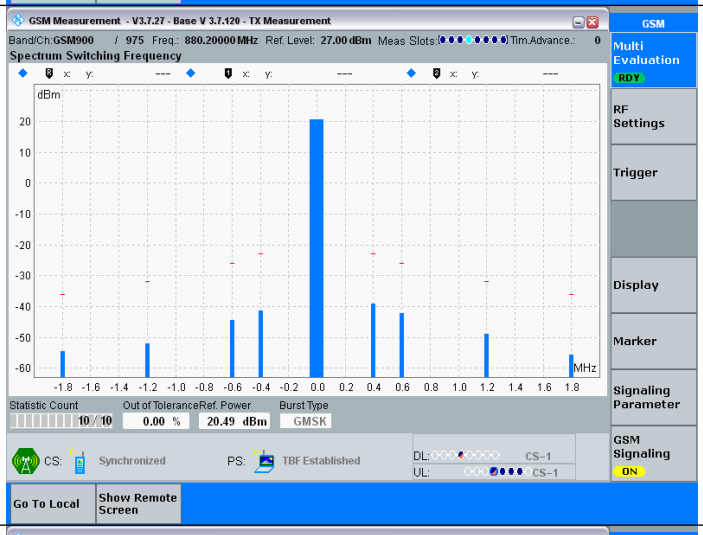
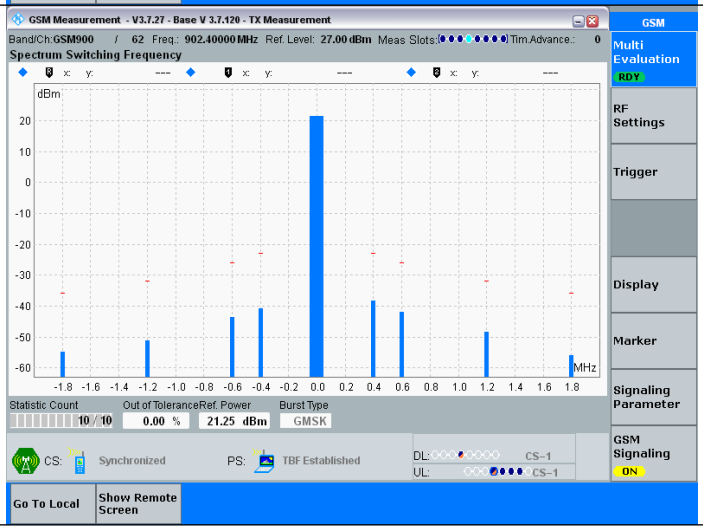
5.1 Test Result

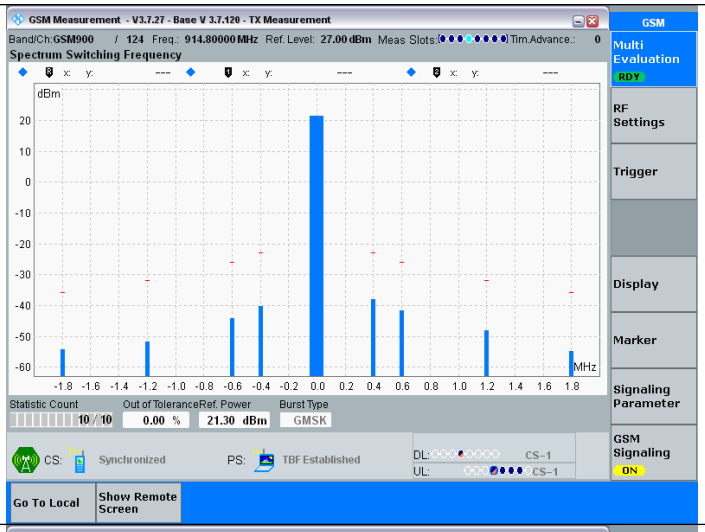
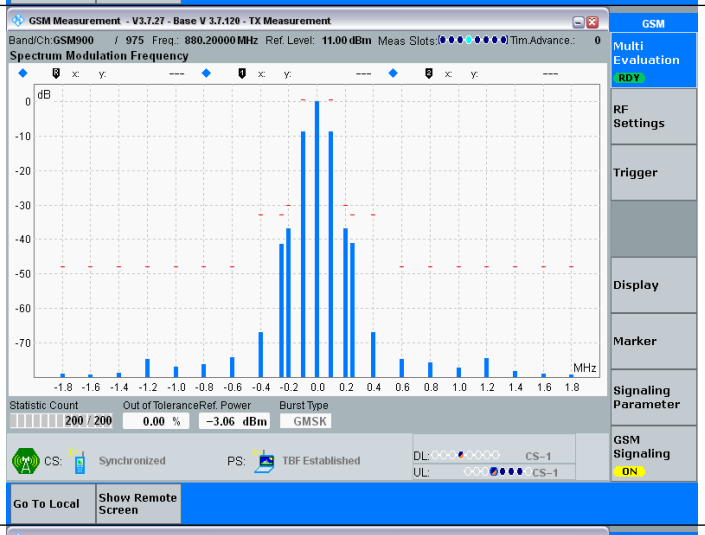
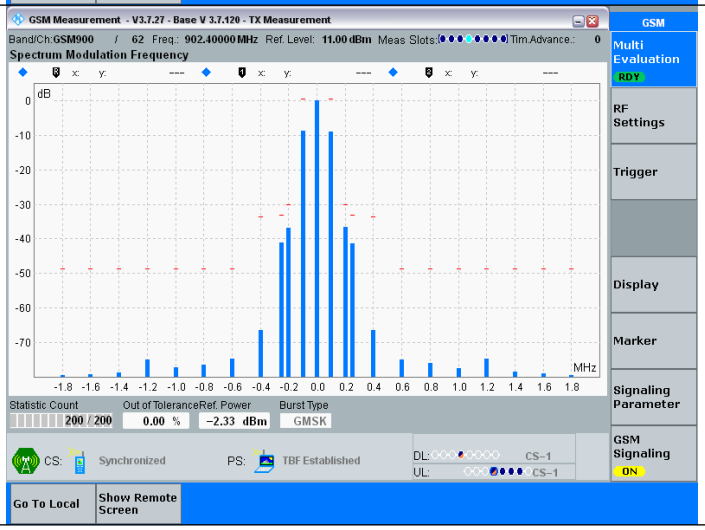
Test Mode	Test Condition	Case No.	GAMMA	Channel	Verdict
EGSM900	NTNV	1	03	MCH	PASS
		2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	03	MCH	PASS
			05	MCH	PASS
			09	LCH	PASS
				MCH	PASS
				HCH	PASS
	HTHV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	HTLV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	LTHV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	LTLV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS

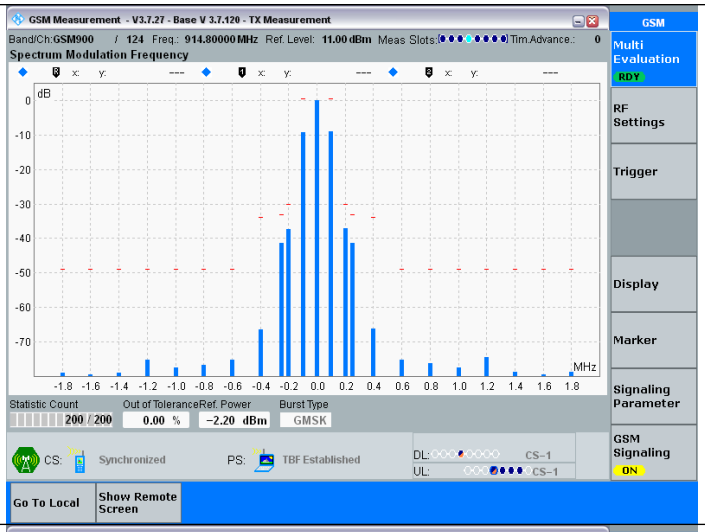
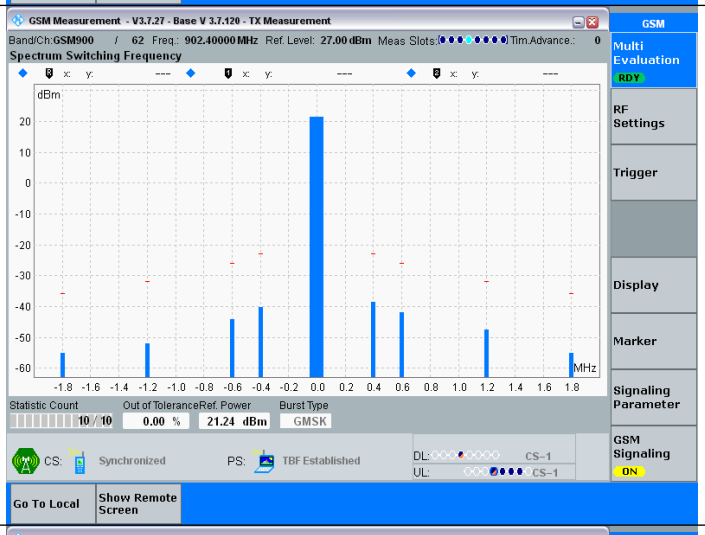
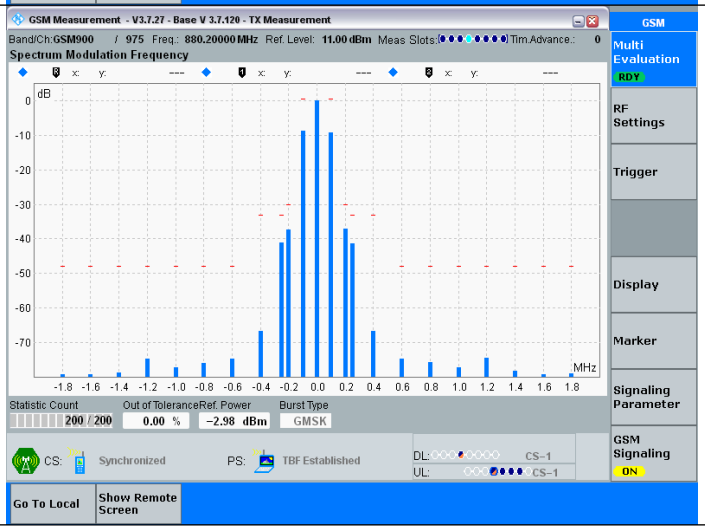
5.2 Test Graph

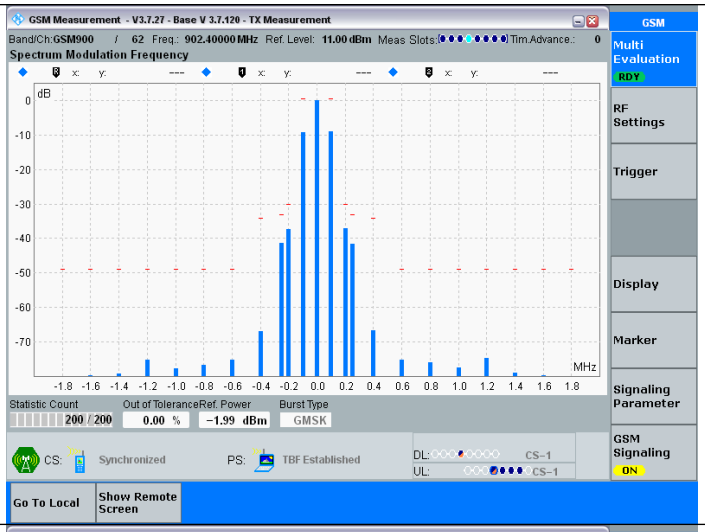
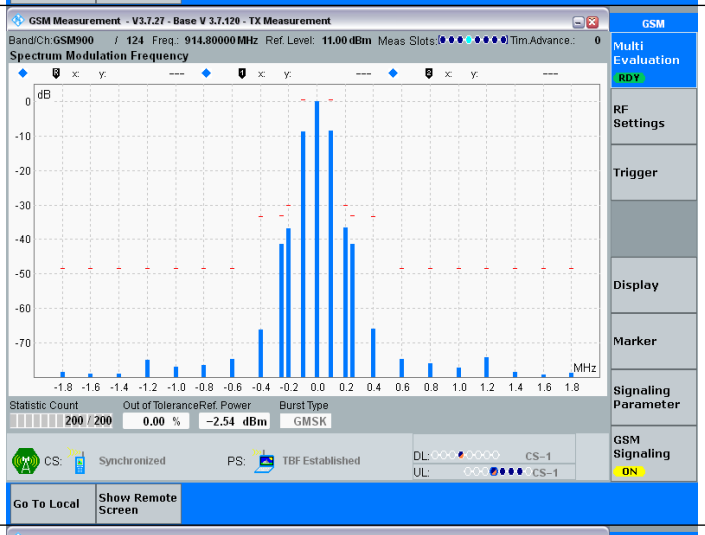
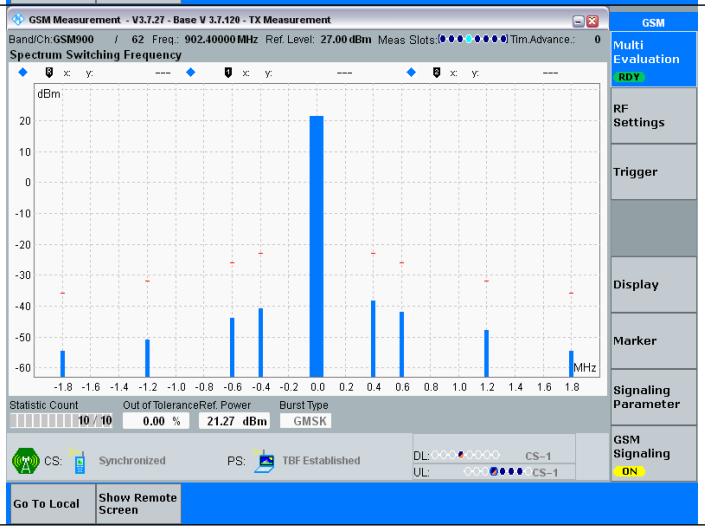
NTNV GPRS Frequency: 880.2 Spectrum Modulation	

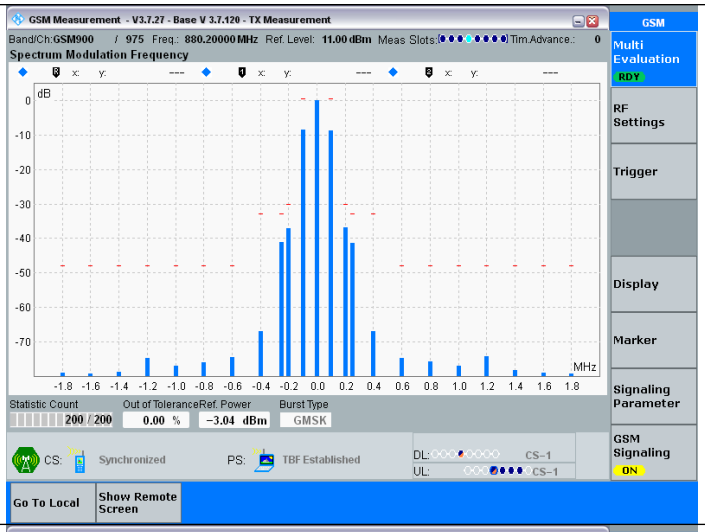
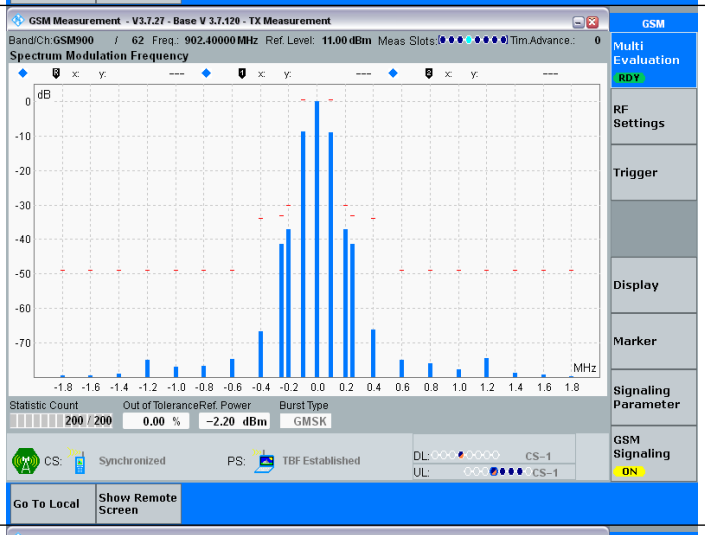
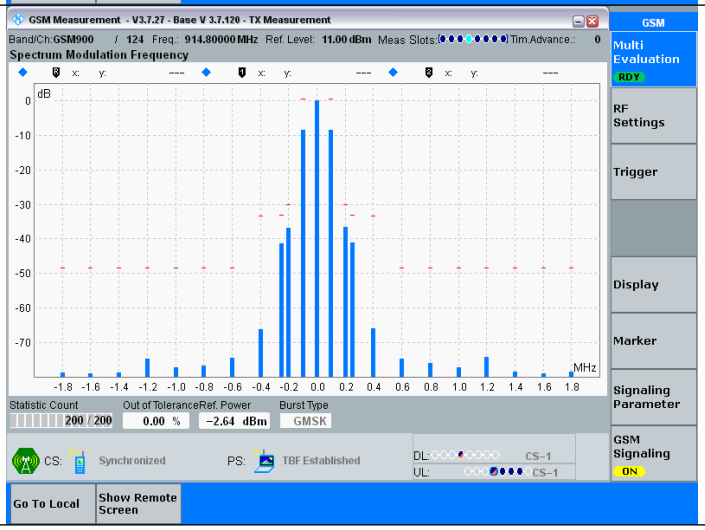
NTNV GPRS Frequency: 902.4 Spectrum Modulation	
NTNV GPRS Frequency: 914.8 Spectrum Modulation	
NTNV GPRS Frequency: 902.4 Spectrum Switching	

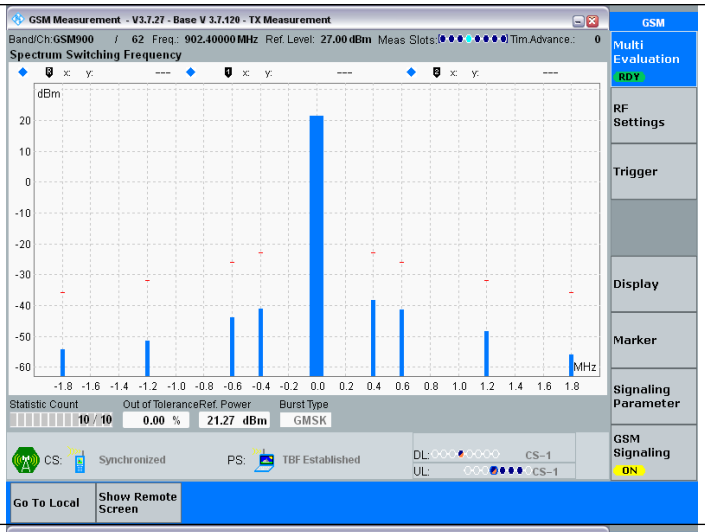
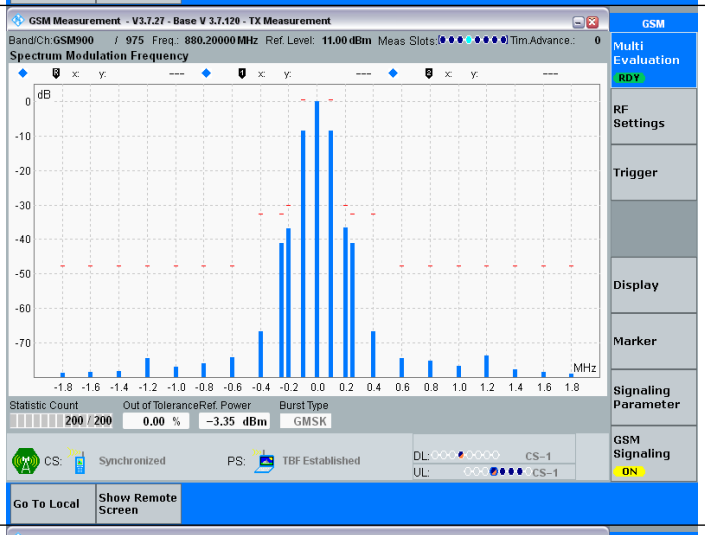
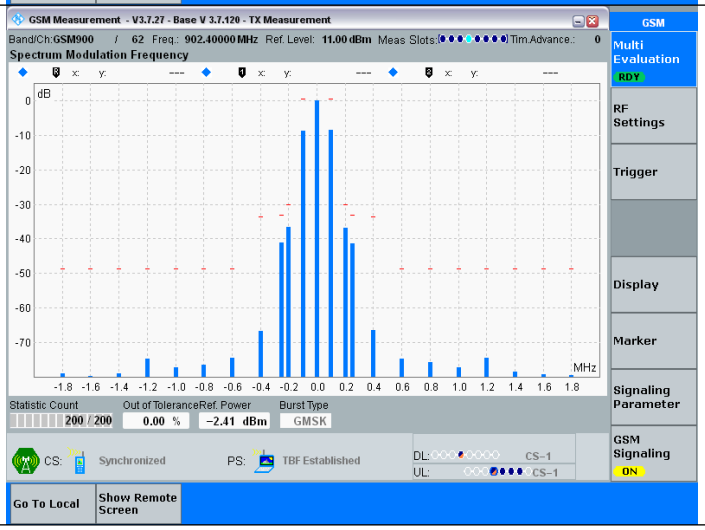
NTNV GPRS Frequency: 902.4 Spectrum Switching	
NTNV GPRS Frequency: 880.2 Spectrum Switching	
NTNV GPRS Frequency: 902.4 Spectrum Switching	

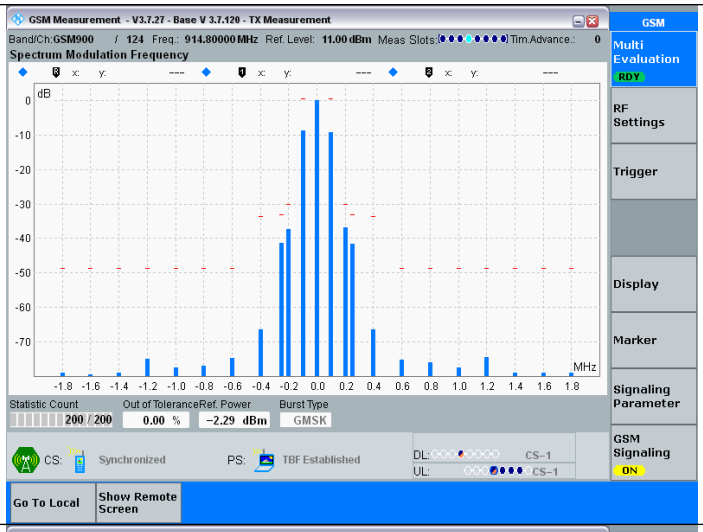
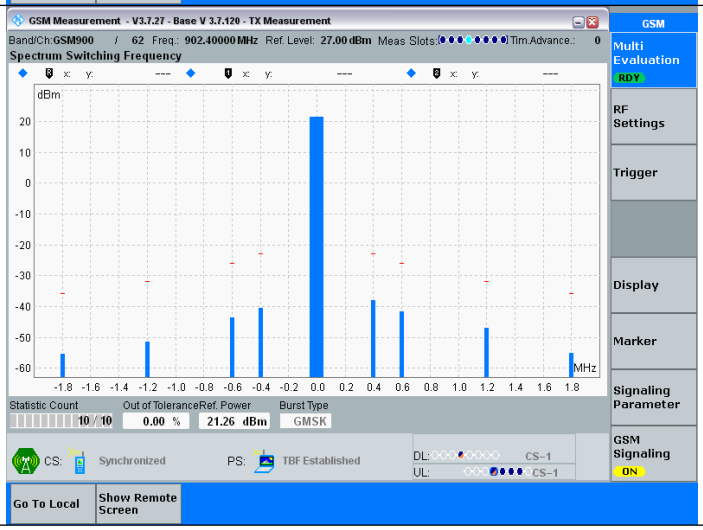
NTNV GPRS Frequency: 914.8 Spectrum Switching	
HTHV GPRS Frequency: 880.2 Spectrum Modulation	
HTHV GPRS Frequency: 902.4 Spectrum Modulation	

HTHV GPRS Frequency: 914.8 Spectrum Modulation	
HTHV GPRS Frequency: 902.4 Spectrum Switching	
HTLV GPRS Frequency: 880.2 Spectrum Modulation	

HTLV GPRS Frequency: 902.4 Spectrum Modulation	
HTLV GPRS Frequency: 914.8 Spectrum Modulation	
HTLV GPRS Frequency: 902.4 Spectrum Switching	

LTHV GPRS Frequency: 880.2 Spectrum Modulation	
LTHV GPRS Frequency: 902.4 Spectrum Modulation	
LTHV GPRS Frequency: 914.8 Spectrum Modulation	

LTHV GPRS Frequency: 902.4 Spectrum Switching	
LTLV GPRS Frequency: 880.2 Spectrum Modulation	
LTLV GPRS Frequency: 902.4 Spectrum Modulation	

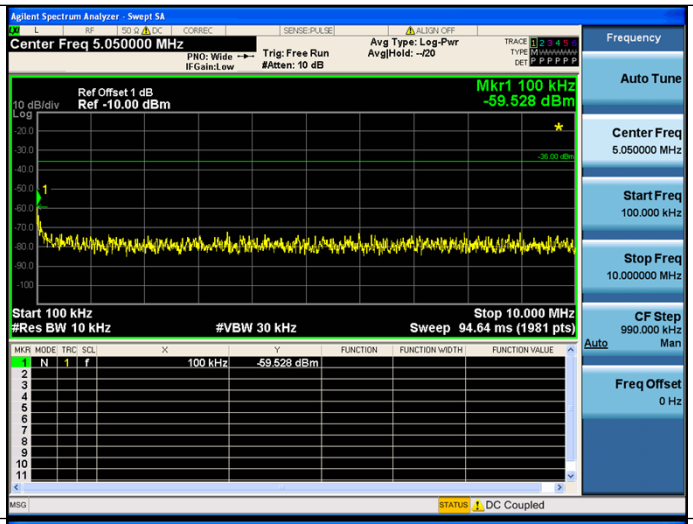
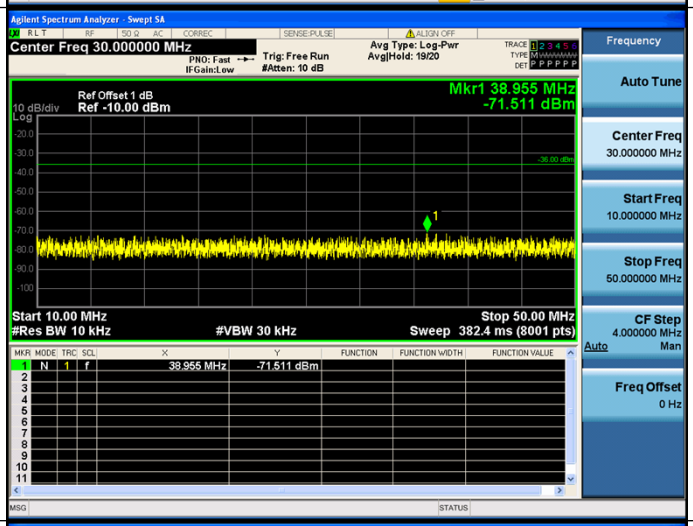
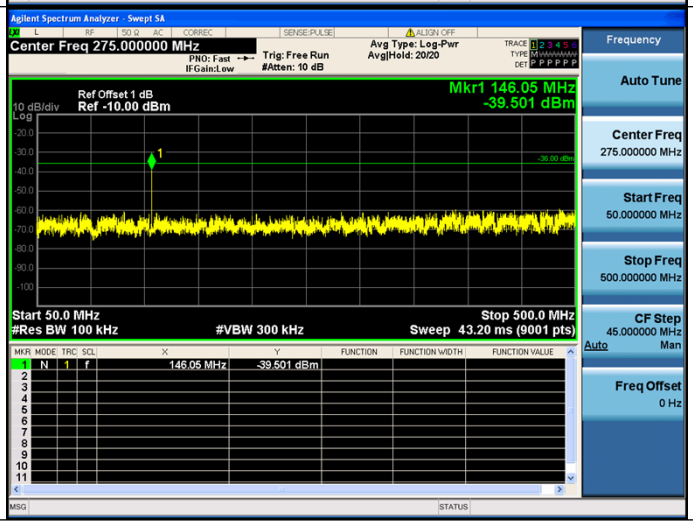
LTLV GPRS Frequency: 914.8 Spectrum Modulation	
LTLV GPRS Frequency: 902.4 Spectrum Switching	

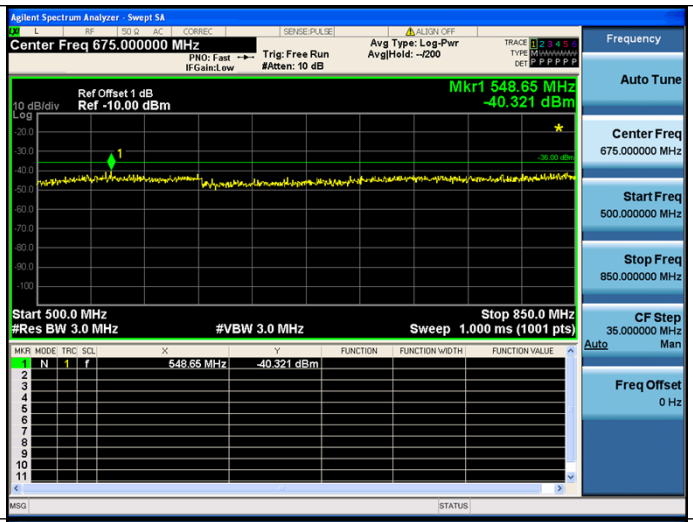
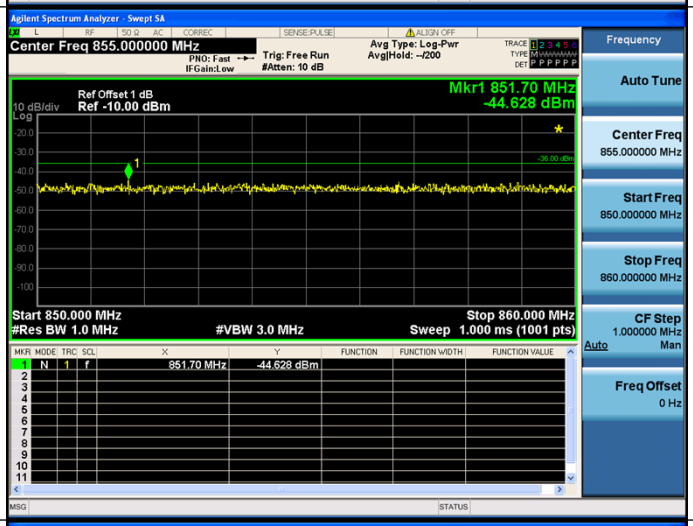
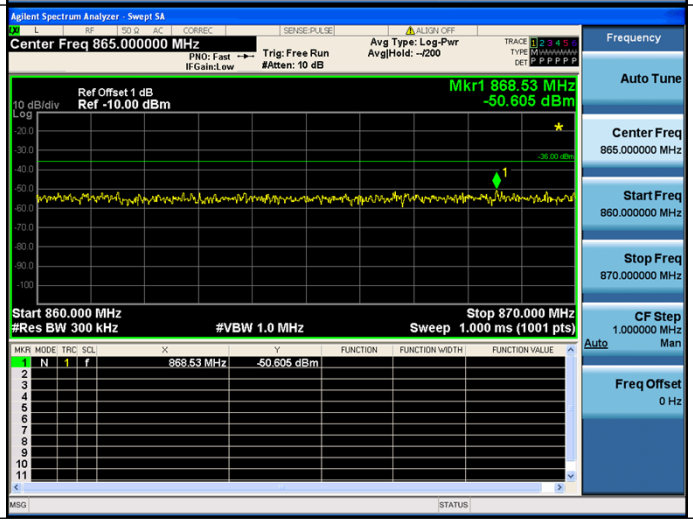
6. Conducted spurious emissions - MS allocated a channel

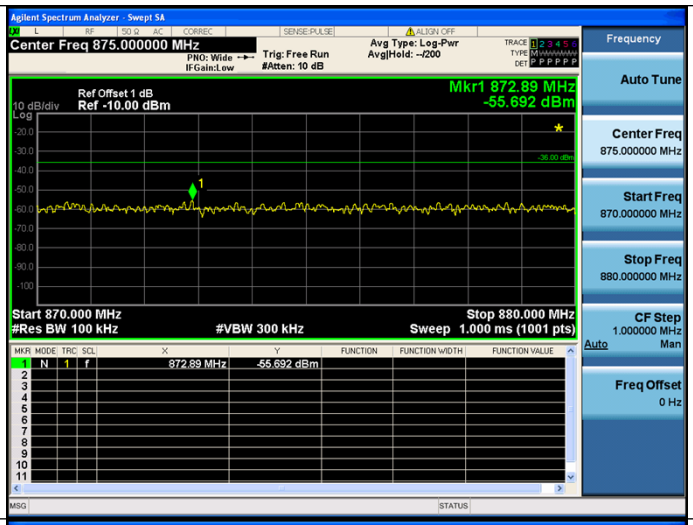
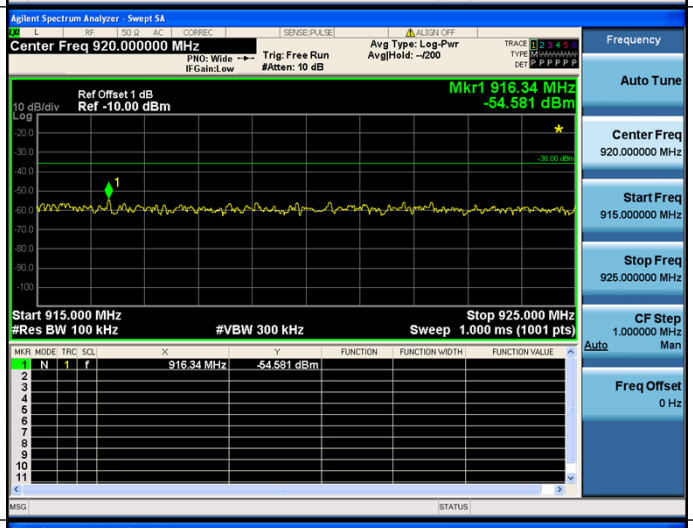
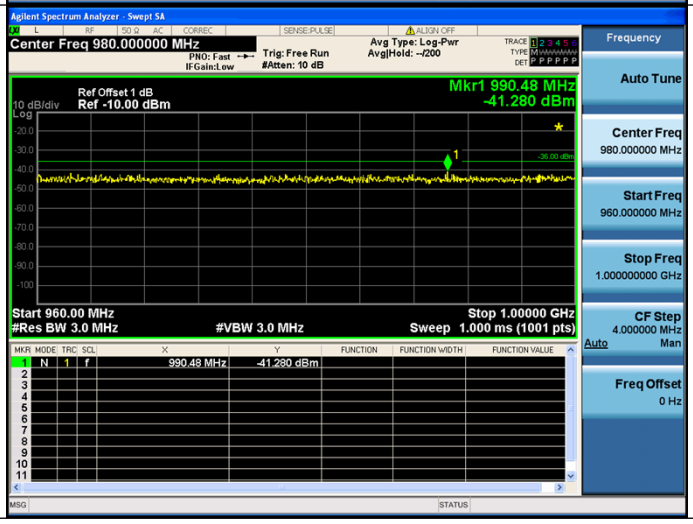
6.1 Test Result

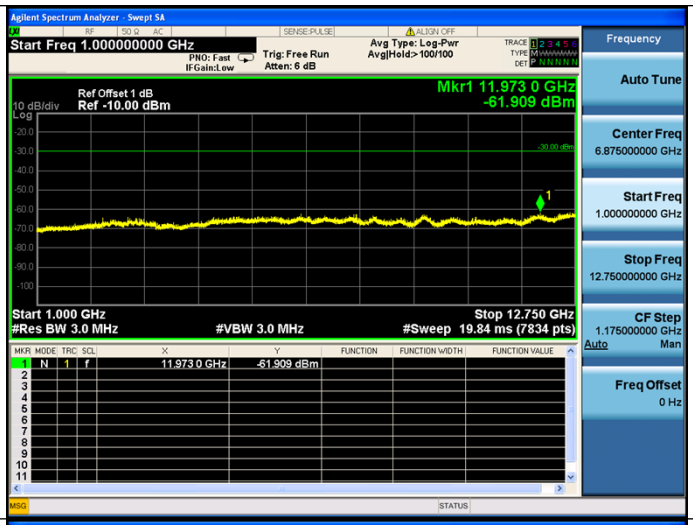
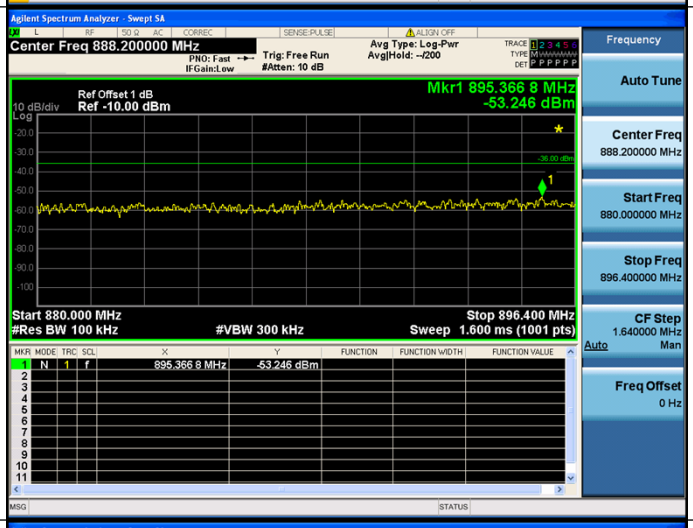
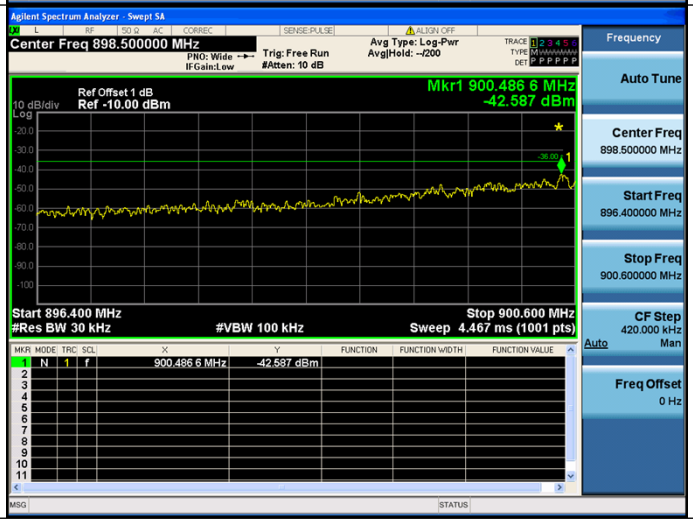
Test Mode	PCL	Channel	Test Condition	Verdict
EGSM900	5	MCH	NTNV	PASS

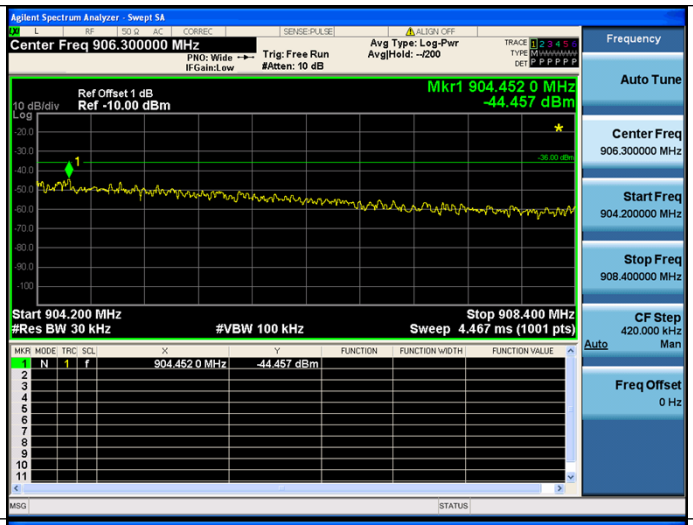
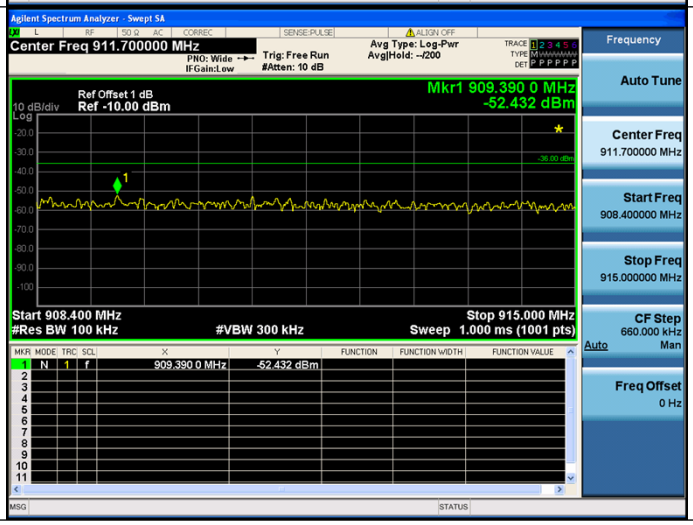
6.2 Test Graph

NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	

NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		

NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	

NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		

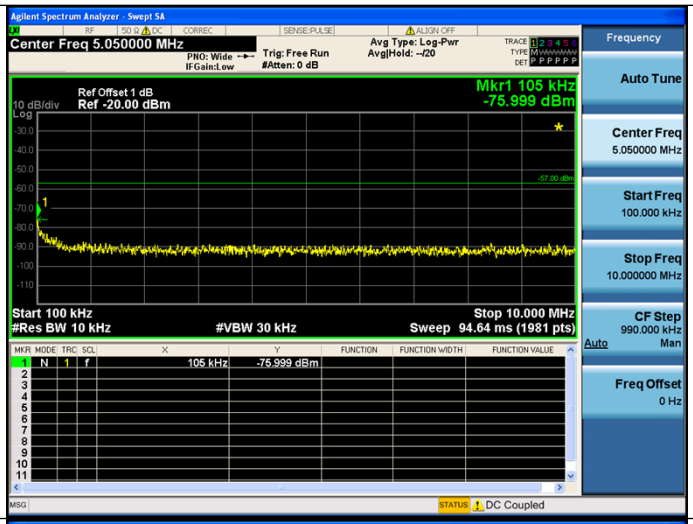
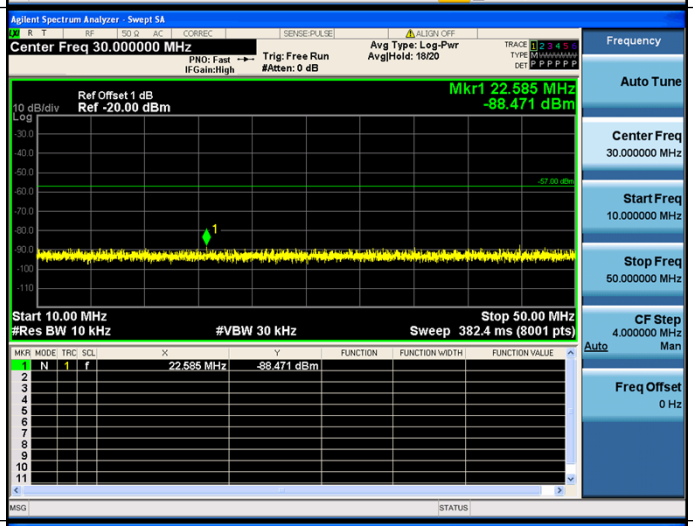
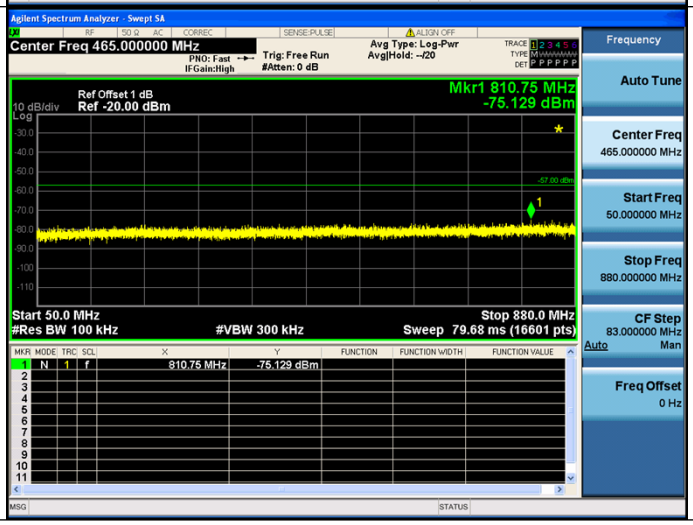
NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	

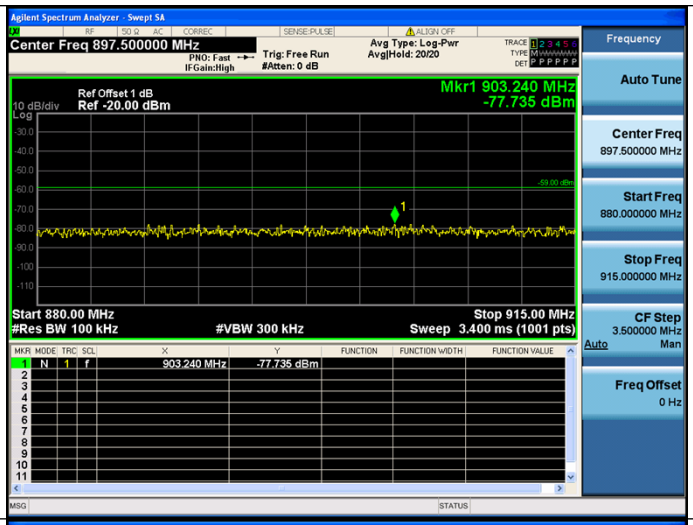
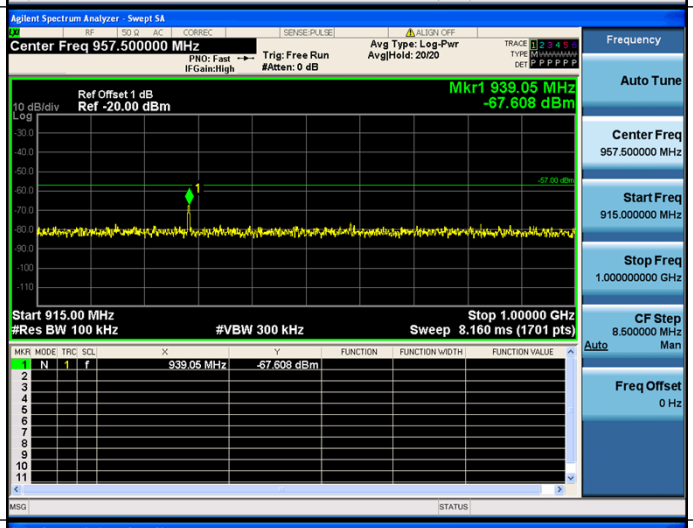
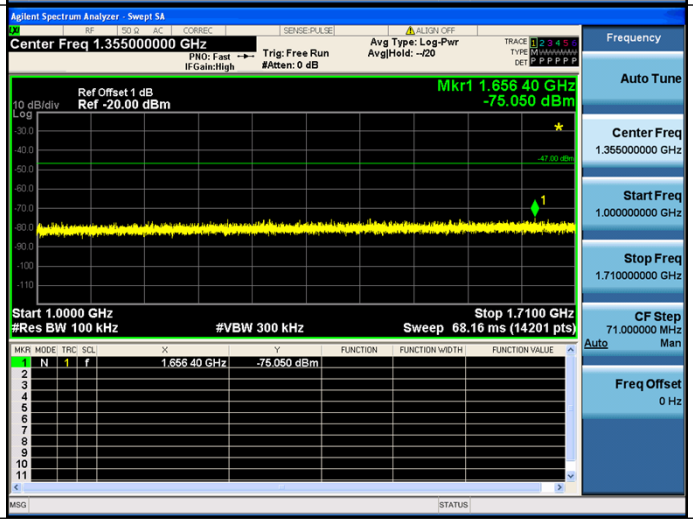
7. Conducted spurious emissions - MS in idle mode

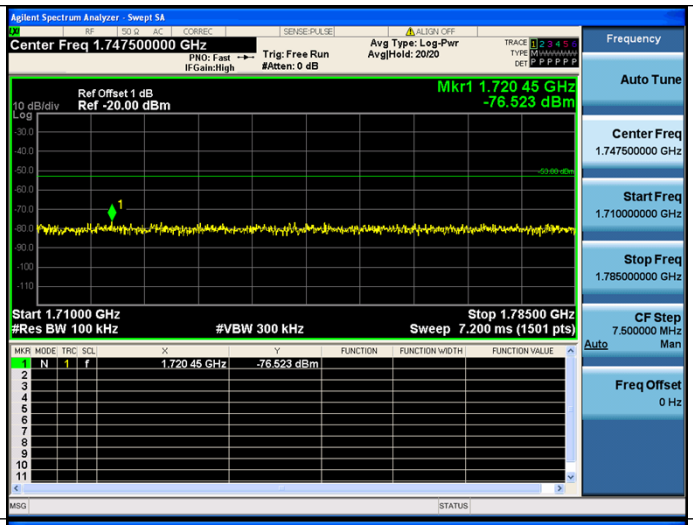
7.1 Test Result

Test Mode	Test Condition	Verdict
EGSM900	NTNV	PASS

7.2 Test Graph

NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	

NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		
NTNV GSM Frequency: 902.4		

NTNV GSM Frequency: 902.4	
NTNV GSM Frequency: 902.4	

8. Frequency error and Modulation accuracy in EGPRS Configuration

8.1 Test Result

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) GAMMA=1	NTNV	19.53	88.02	PASS	RMS	0.8	5	PASS
					Peak	2.09	20	PASS
	HTHV	19.02	88.02	PASS	RMS	0.8	5	PASS
					Peak	2.05	20	PASS
	HTLV	19.95	88.02	PASS	RMS	0.81	5	PASS
					Peak	2.07	20	PASS
	LTHV	20.02	88.02	PASS	RMS	0.81	5	PASS
					Peak	2.13	20	PASS
	LTLV	19.6	88.02	PASS	RMS	0.81	5	PASS
					Peak	2.1	20	PASS
	Vibration	19.76	88.02	PASS	RMS	0.81	5	PASS
					Peak	2.1	20	PASS

EGSM900	Test	Frequency	Limit	Result	Phase Error	Limit	Result

	Condition	Error(Hz)	(Hz)		(degree)		(degree)	
Reference Frequency 880.2 (MHz) GAMMA=1	NTNV	20.47	88.02	PASS	RMS	1.1	5	PASS
					Peak	2.71	20	PASS
	HTHV	20.4	88.02	PASS	RMS	1.1	5	PASS
					Peak	2.69	20	PASS
	HTLV	20.86	88.02	PASS	RMS	1.1	5	PASS
					Peak	2.71	20	PASS
	LTHV	20.63	88.02	PASS	RMS	1.1	5	PASS
					Peak	2.69	20	PASS
	LTLV	20.63	88.02	PASS	RMS	1.09	5	PASS
					Peak	2.75	20	PASS
	Vibration	20.18	88.02	PASS	RMS	1.1	5	PASS
					Peak	2.67	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 880.2 (MHz) GAMMA=3	NTNV	19.18	88.02	PASS	RMS	0.74	5	PASS
					Peak	1.89	20	PASS
	HTHV	22.21	88.02	PASS	RMS	0.75	5	PASS
					Peak	1.92	20	PASS
	HTLV	19.21	88.02	PASS	RMS	0.76	5	PASS
					Peak	1.93	20	PASS
	LTHV	19.57	88.02	PASS	RMS	0.75	5	PASS
					Peak	1.91	20	PASS
	LTLV	18.82	88.02	PASS	RMS	0.74	5	PASS
					Peak	1.88	20	PASS
	Vibration	19.31	88.02	PASS	RMS	0.75	5	PASS
					Peak	1.88	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) GAMMA=1	NTNV	25.34	90.24	PASS	RMS	0.95	5	PASS
					Peak	2.53	20	PASS
	HTHV	25.28	90.24	PASS	RMS	0.96	5	PASS
					Peak	2.57	20	PASS
	HTLV	24.8	90.24	PASS	RMS	0.96	5	PASS
					Peak	2.6	20	PASS
	LTHV	23.76	90.24	PASS	RMS	0.97	5	PASS
					Peak	2.61	20	PASS
	LTLV	21.66	90.24	PASS	RMS	0.97	5	PASS
					Peak	2.62	20	PASS
	Vibration	26.67	90.24	PASS	RMS	0.96	5	PASS
					Peak	2.59	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) GAMMA=1	NTNV	26.38	90.24	PASS	RMS	1.16	5	PASS
					Peak	3.06	20	PASS
	HTHV	23.79	90.24	PASS	RMS	1.15	5	PASS
					Peak	3.06	20	PASS
	HTLV	23.92	90.24	PASS	RMS	1.16	5	PASS
					Peak	3.13	20	PASS
	LTHV	23.67	90.24	PASS	RMS	1.16	5	PASS
					Peak	3.09	20	PASS
	LTLV	28.96	90.24	PASS	RMS	1.17	5	PASS

					Peak	3.11	20	PASS
	Vibration	25.15	90.24	PASS	RMS	1.16	5	PASS
					Peak	3.07	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 902.4 (MHz) GAMMA=3	NTNV	24.28	90.24	PASS	RMS	0.89	5	PASS
					Peak	2.43	20	PASS
	HTHV	29.83	90.24	PASS	RMS	0.87	5	PASS
					Peak	2.31	20	PASS
	HTLV	28.02	90.24	PASS	RMS	0.86	5	PASS
					Peak	2.28	20	PASS
	LTHV	26.05	90.24	PASS	RMS	0.87	5	PASS
					Peak	2.3	20	PASS
	LTLV	21.63	90.24	PASS	RMS	0.88	5	PASS
					Peak	2.3	20	PASS
	Vibration	22.79	90.24	PASS	RMS	0.86	5	PASS
					Peak	2.26	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) GAMMA=1	NTNV	25.8	91.48	PASS	RMS	0.78	5	PASS
					Peak	2.03	20	PASS
	HTHV	23.18	91.48	PASS	RMS	0.79	5	PASS
					Peak	2.05	20	PASS
	HTLV	24.41	91.48	PASS	RMS	0.77	5	PASS
					Peak	2.01	20	PASS
	LTHV	23.86	91.48	PASS	RMS	0.77	5	PASS
					Peak	1.98	20	PASS
	LTLV	24.41	91.48	PASS	RMS	0.78	5	PASS
					Peak	2	20	PASS
	Vibration	25.34	91.48	PASS	RMS	0.78	5	PASS
					Peak	1.99	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency 914.8 (MHz) GAMMA=1	NTNV	12.46	91.48	PASS	RMS	1.19	5	PASS
					Peak	3.04	20	PASS
	HTHV	25.83	91.48	PASS	RMS	1.06	5	PASS
					Peak	2.59	20	PASS
	HTLV	23.99	91.48	PASS	RMS	1.05	5	PASS
					Peak	2.56	20	PASS
	LTHV	24.34	91.48	PASS	RMS	1.05	5	PASS
					Peak	2.59	20	PASS
	LTLV	24.41	91.48	PASS	RMS	1.08	5	PASS
					Peak	2.55	20	PASS
	Vibration	22.63	91.48	PASS	RMS	1.05	5	PASS
					Peak	2.62	20	PASS

EGSM900	Test Condition	Frequency Error(Hz)	Limit (Hz)	Result	Phase Error (degree)		Limit (degree)	Result
Reference Frequency	NTNV	20.4	91.48	PASS	RMS	0.7	5	PASS
					Peak	1.73	20	PASS
	HTHV	22.89	91.48	PASS	RMS	0.7	5	PASS

914.8 (MHz) GAMMA=3					Peak	1.74	20	PASS
	HTLV	21.99	91.48	PASS	RMS	0.69	5	PASS
					Peak	1.75	20	PASS
	LTHV	21.11	91.48	PASS	RMS	0.69	5	PASS
					Peak	1.73	20	PASS
	LTLV	19.98	91.48	PASS	RMS	0.7	5	PASS
					Peak	1.75	20	PASS
	Vibration	21.7	91.48	PASS	RMS	0.69	5	PASS
					Peak	1.72	20	PASS

9. Frequency error under multipath and interference conditions in EGPRS Configuration

9.1 Test Result

EGSM900	Test Condition	Fading Set	Frequency error(Hz)			Limit (Hz)	Verdict
			LCH 880.2MHz	LCH 902MHz	LCH 914.8MHz		
EGSM900 PCL=3	NTNV	RA250	19.57	20.6	16.21	±300	PASS
		HT100	20.73	20.63	18.21	±180	PASS
		TU50	20.11	20.66	19.02	±160	PASS
		TUlow	16.82	30.99	17.21	±230	PASS
	HTHV	RA250	22.47	23.47	17.95	±300	PASS
		HT100	15.76	23.83	15.72	±180	PASS
		TU50	22.02	26.57	17.37	±160	PASS
		TUlow	18.69	25.96	19.47	±230	PASS
	HTLV	RA250	20.79	24.02	18.05	±300	PASS
		HT100	18.98	21.7	17.43	±180	PASS
		TU50	22.89	22.18	18.24	±160	PASS
		TUlow	16.66	24.41	19.47	±230	PASS
	LTHV	RA250	20.7	27.57	17.53	±300	PASS
		HT100	19.98	26.25	16.72	±180	PASS
		TU50	20.82	26.76	17.08	±160	PASS
		TUlow	16.69	23.18	17.85	±230	PASS
	LTLV	RA250	18.73	23.41	19.5	±300	PASS
		HT100	20.11	21.31	18.69	±180	PASS
		TU50	18.56	22.05	17.72	±160	PASS
		TUlow	16.34	28.22	17.34	±230	PASS

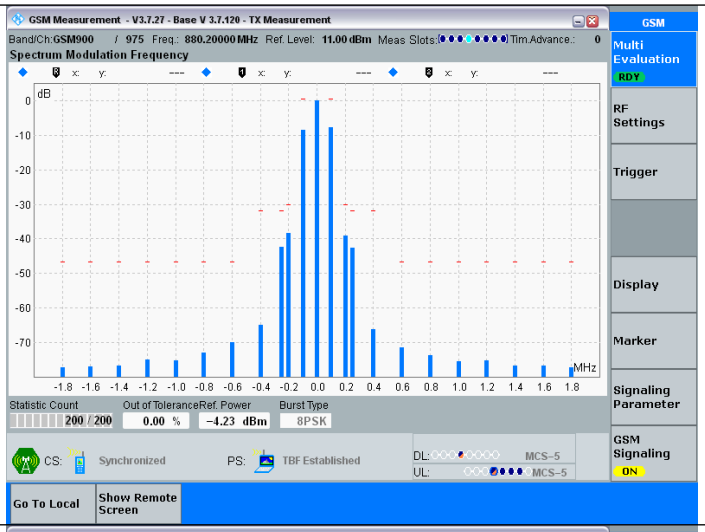
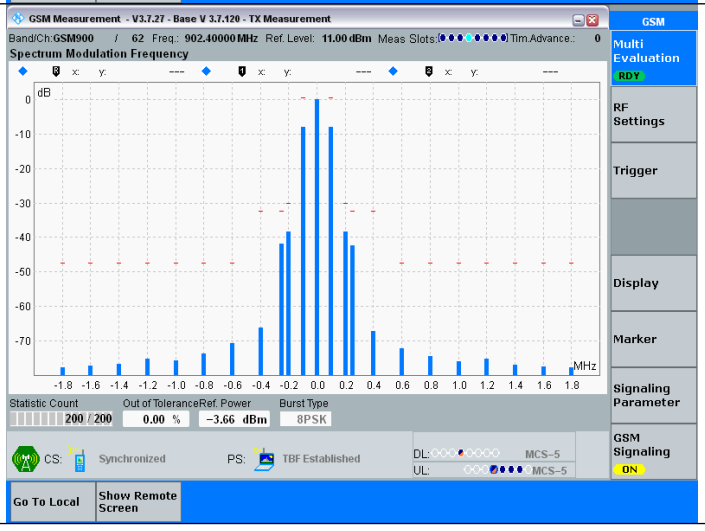
10. Output RF spectrum in EGPRS configuration

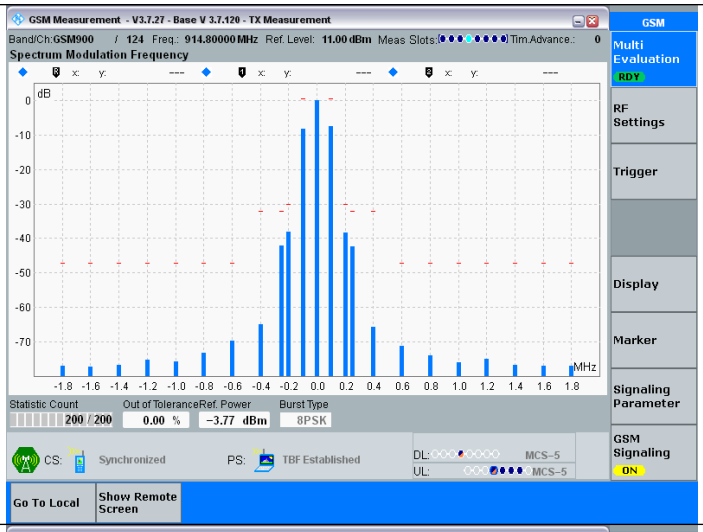
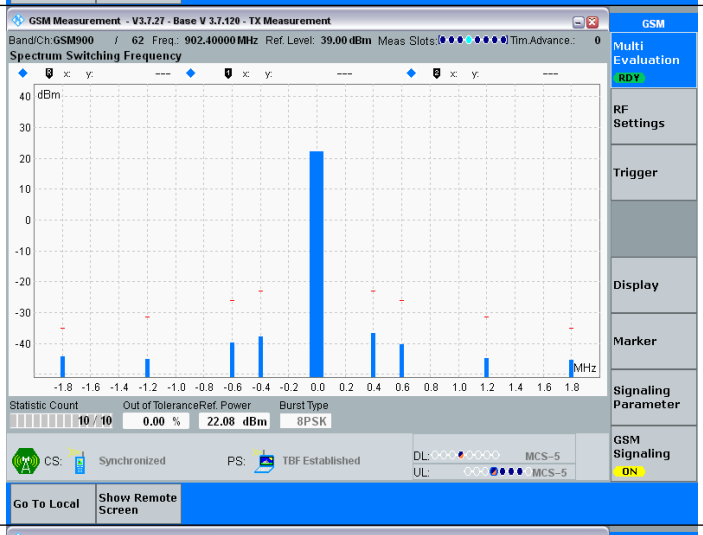
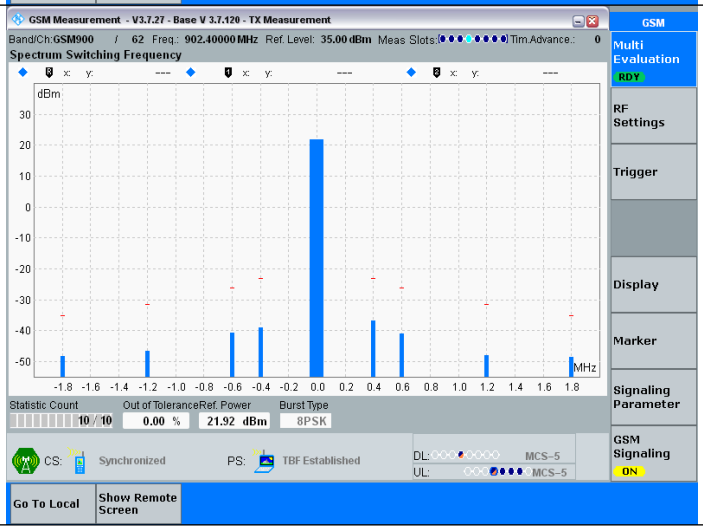
10.1 Test Result

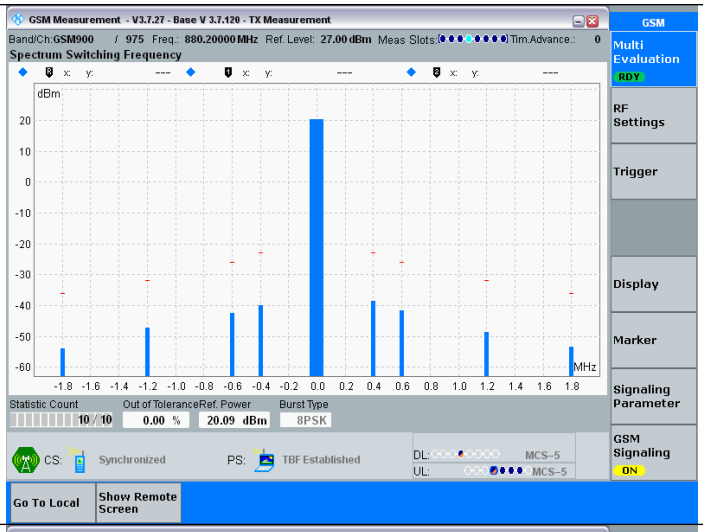
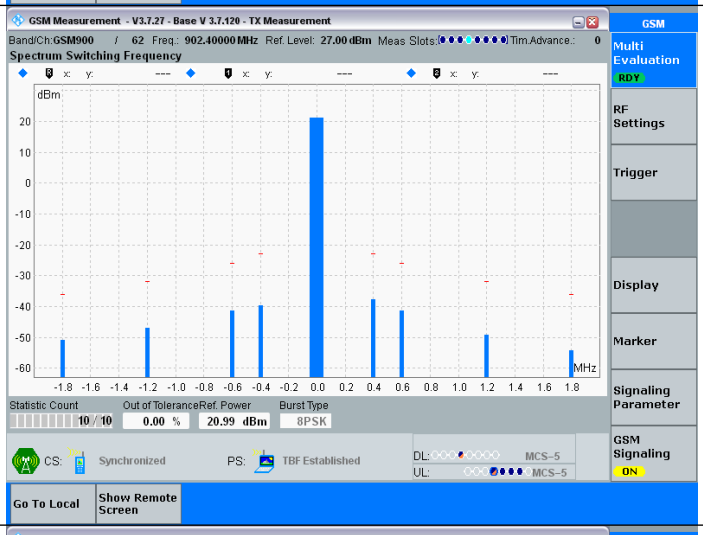
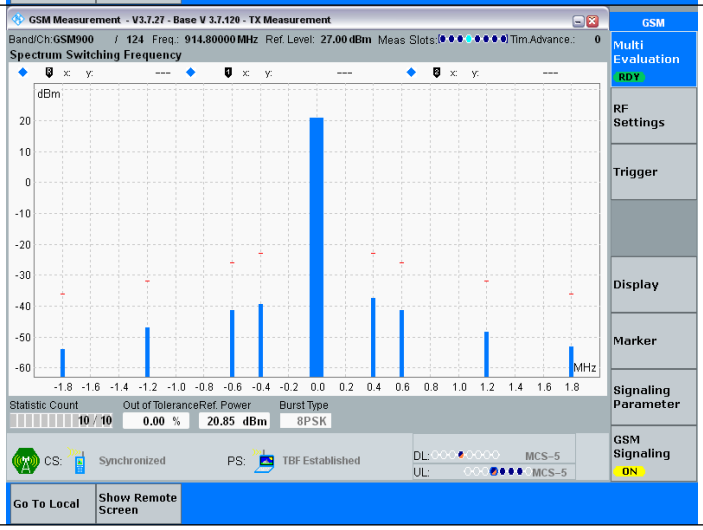
Test Mode	Test Condition	Case No.	PCL	Channel	Verdict
EGSM900	NTNV	1	03	MCH	PASS
		2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	03	MCH	PASS
			05	MCH	PASS
			09	LCH	PASS
				MCH	PASS
				HCH	PASS
	HTHV	2	17	LCH	PASS

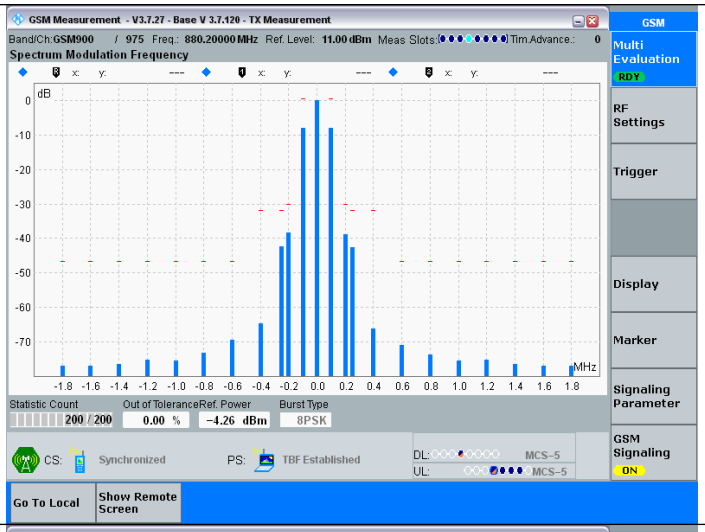
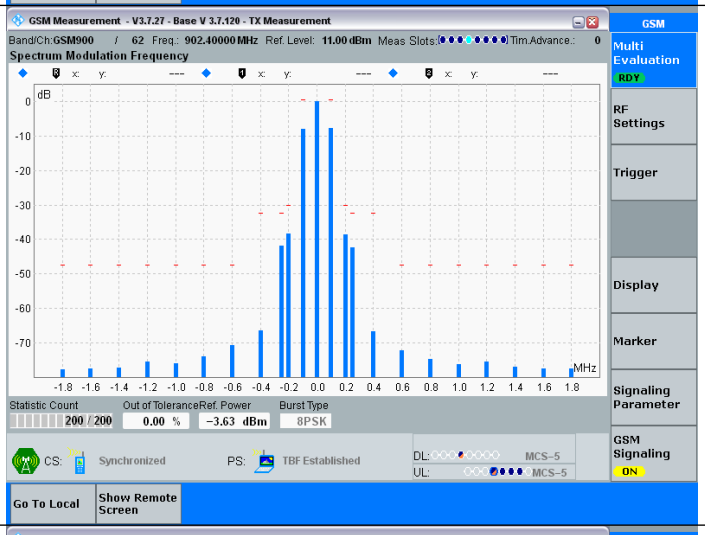
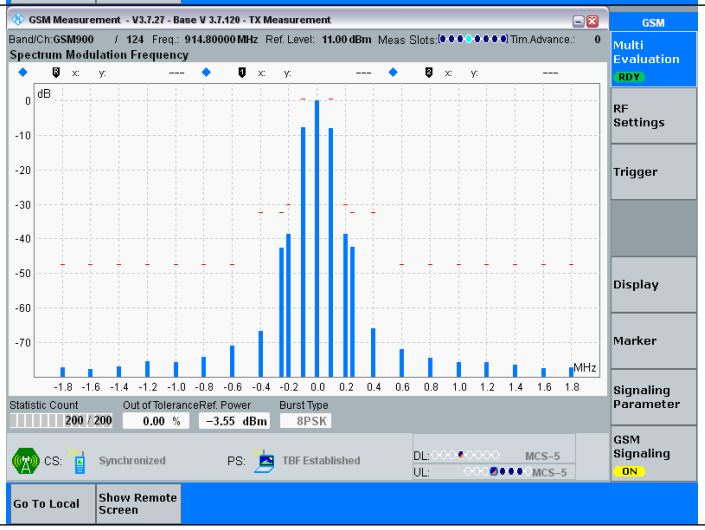
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	HTLV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	LTHV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS
	LTLV	2	17	LCH	PASS
				MCH	PASS
				HCH	PASS
		3	09	MCH	PASS

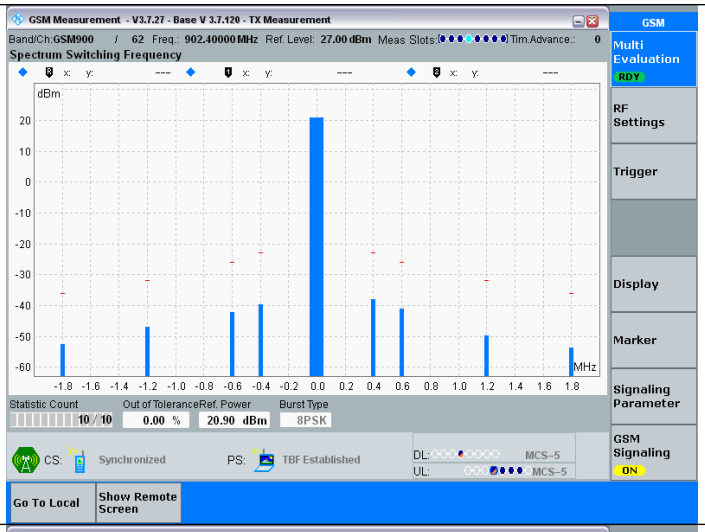
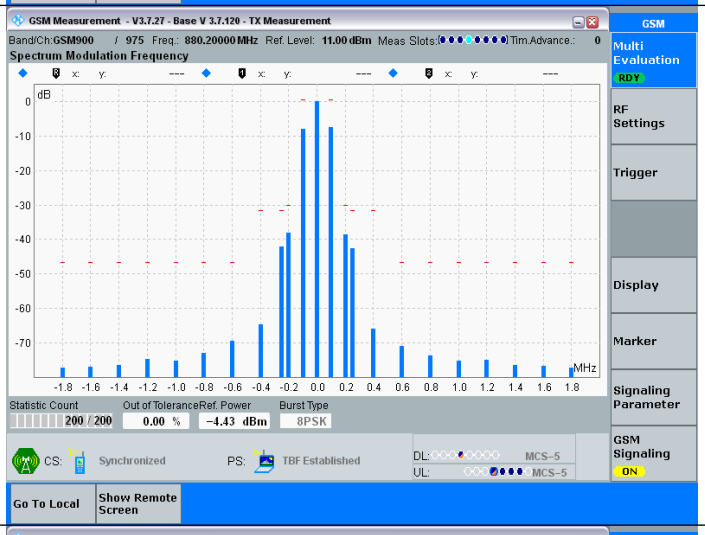
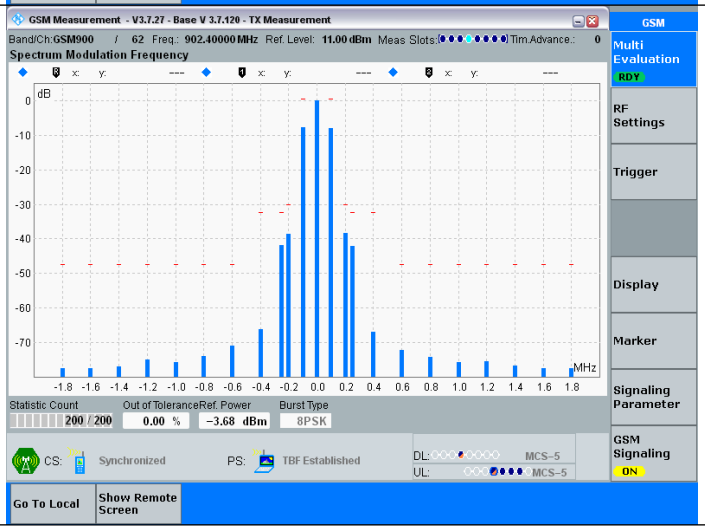
10.2 Test Graph

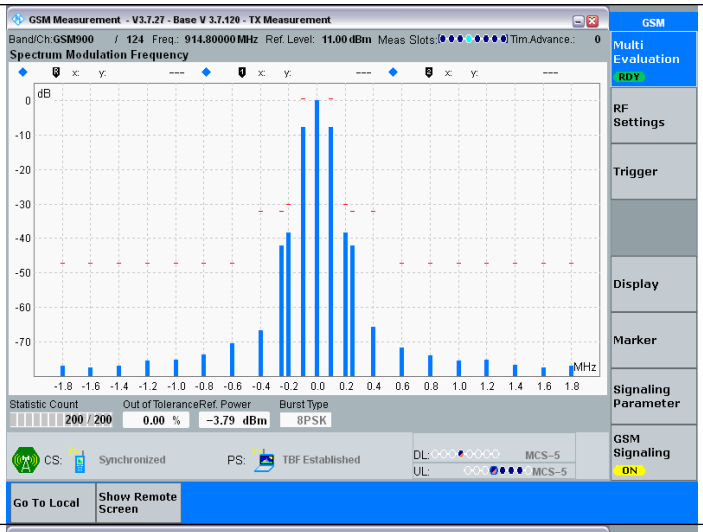
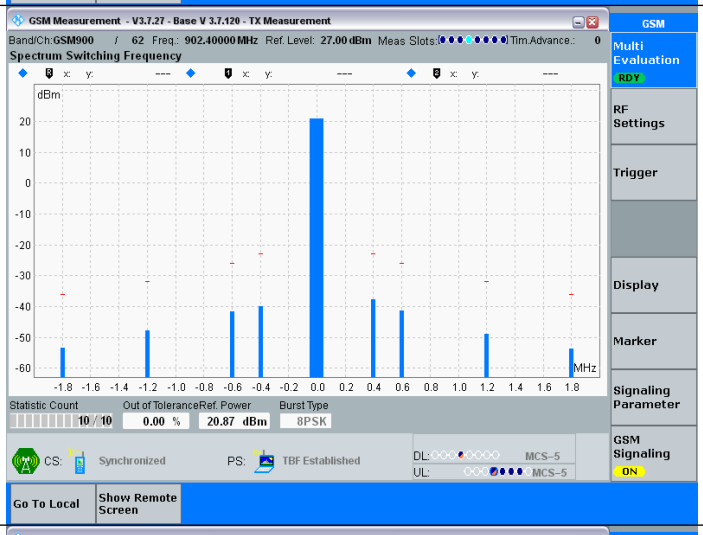
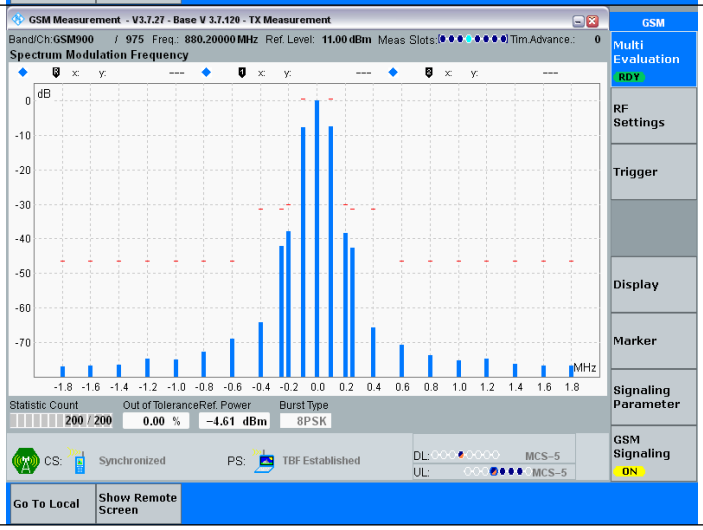
NTNV EGPRS Frequency: 880.2 Spectrum Modulation	
NTNV EGPRS Frequency: 902.4 Spectrum Modulation	

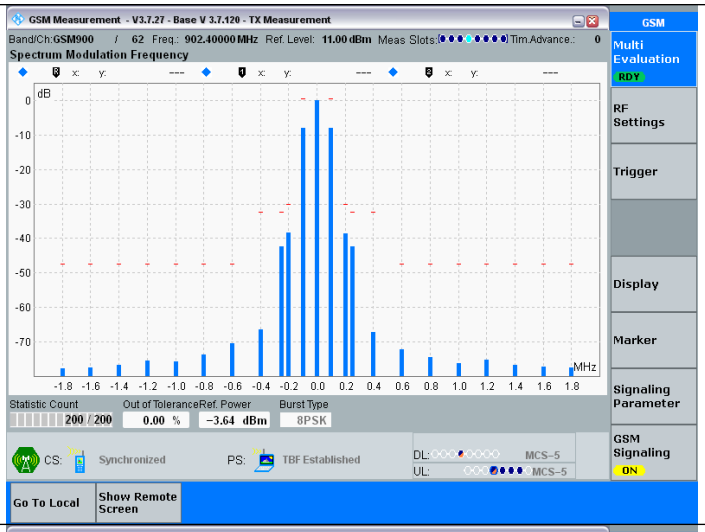
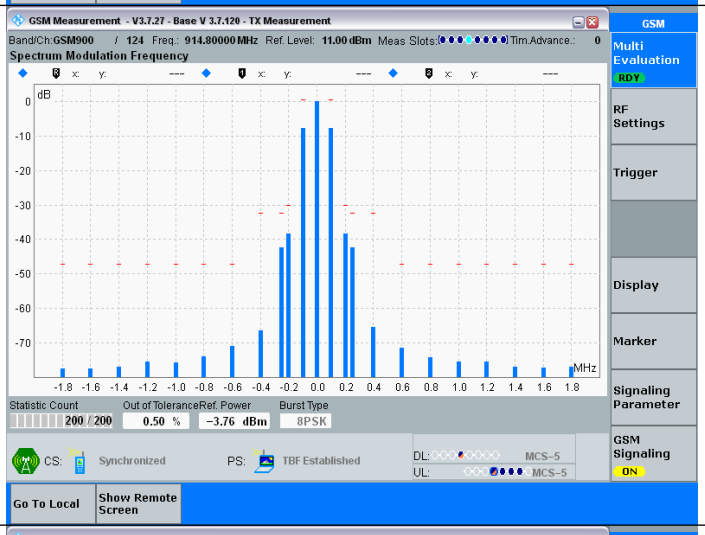
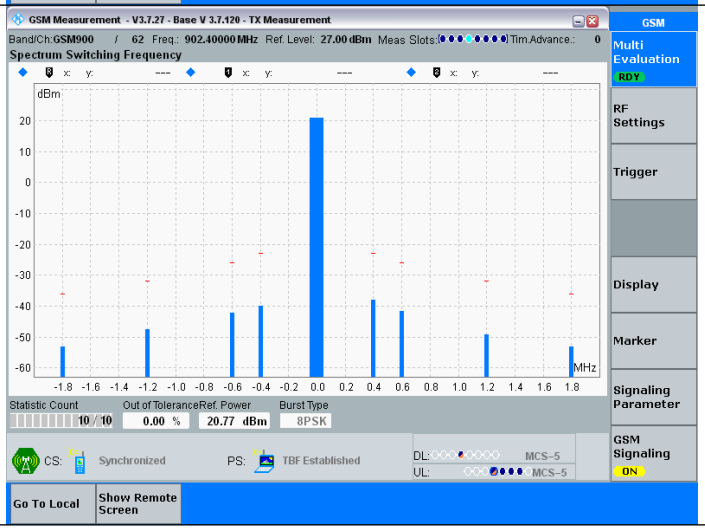
NTNV EGPRS Frequency: 914.8 Spectrum Modulation	
NTNV EGPRS Frequency: 902.4 Spectrum Switching	
NTNV EGPRS Frequency: 902.4 Spectrum Switching	

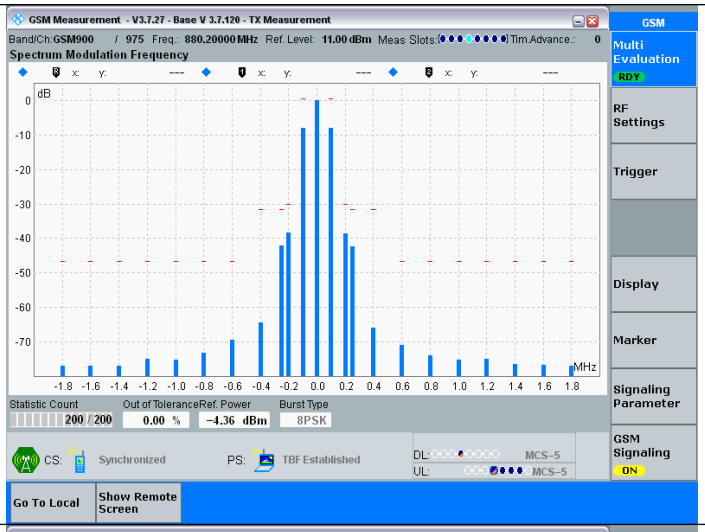
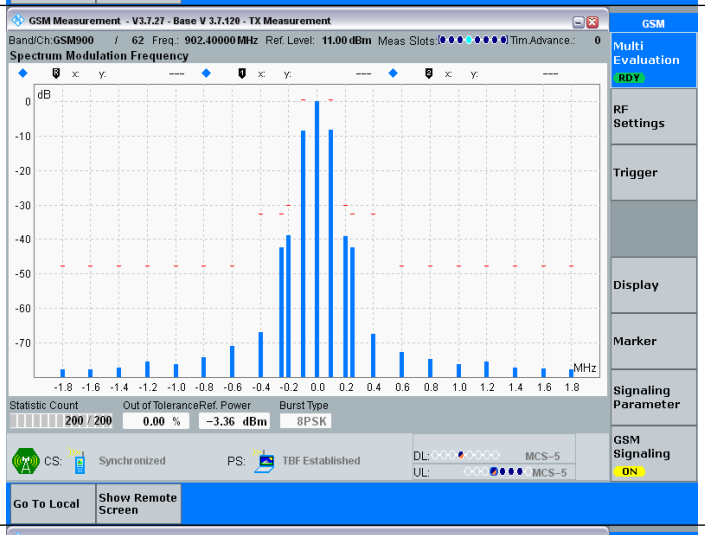
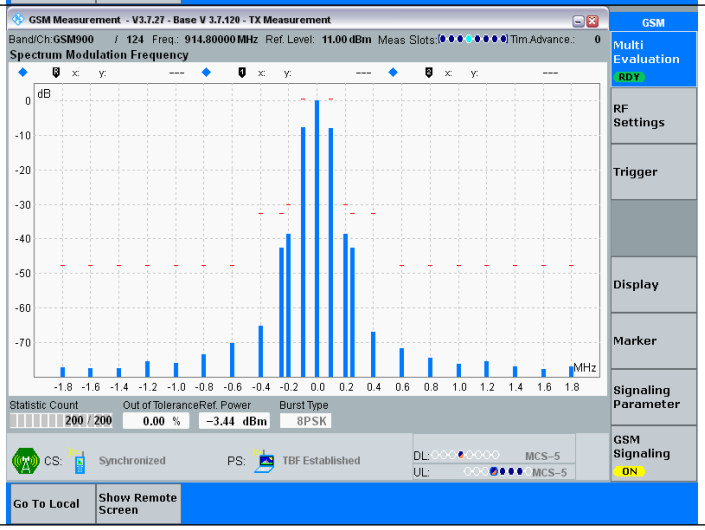
NTNV EGPRS Frequency: 880.2 Spectrum Switching	
NTNV EGPRS Frequency: 902.4 Spectrum Switching	
NTNV EGPRS Frequency: 914.8 Spectrum Switching	

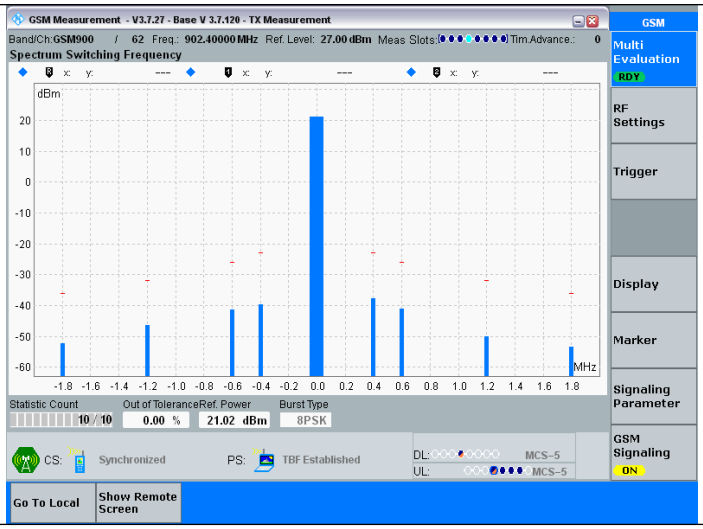
HTHV EGPRS Frequency: 880.2 Spectrum Modulation	
HTHV EGPRS Frequency: 902.4 Spectrum Modulation	
HTHV EGPRS Frequency: 914.8 Spectrum Modulation	

HTHV EGPRS Frequency: 902.4 Spectrum Switching	
HTLV EGPRS Frequency: 880.2 Spectrum Modulation	
HTLV EGPRS Frequency: 902.4 Spectrum Modulation	

HTLV EGPRS Frequency: 914.8 Spectrum Modulation	
HTLV EGPRS Frequency: 902.4 Spectrum Switching	
LTHV EGPRS Frequency: 880.2 Spectrum Modulation	

LTHV EGPRS Frequency: 902.4 Spectrum Modulation	
LTHV EGPRS Frequency: 914.8 Spectrum Modulation	
LTHV EGPRS Frequency: 902.4 Spectrum Switching	

LTLV EGPRS Frequency: 880.2 Spectrum Modulation	
LTLV EGPRS Frequency: 902.4 Spectrum Modulation	
LTLV EGPRS Frequency: 914.8 Spectrum Modulation	

LTLV EGPRS Frequency: 902.4 Spectrum Switching	

11. Inter-modulation rejection - control channels

11.1 Test Result

Test Mode	PCL	Test Condition	Channel	Verdict
EGSM900	5	NTNV	LCH	PASS
			MCH	PASS
			HCH	PASS
		HTHV	LCH	PASS
			MCH	PASS
			HCH	PASS
		HTLV	LCH	PASS
			MCH	PASS
			HCH	PASS
		LTHV	LCH	PASS
			MCH	PASS
			HCH	PASS
		LTLV	LCH	PASS
			MCH	PASS
			HCH	PASS

12. Inter-modulation rejection - EGPRS

12.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
EGSM900	BLER	3	NTNV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC1	PASS
					MC2	PASS
					MC3	PASS
					MC4	PASS
					MC5	PASS
					MC6	PASS
					MC7	PASS
					MC8	PASS

					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			HTHV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			HTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			LTHV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			LTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS

Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
EGSM900	USF BLER	3	NTNV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC1	PASS
					MC2	PASS
					MC3	PASS
					MC4	PASS
					MC5	PASS
					MC6	PASS
					MC7	PASS
					MC8	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			HTHV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			HTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS
			LTHV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS

				HCH	MC4	PASS
					MC9	PASS
			LTLV	LCH	MC4	PASS
					MC9	PASS
				MCH	MC4	PASS
					MC9	PASS
				HCH	MC4	PASS
					MC9	PASS

13. AM suppression - control channels

13.1 Test Result

Test Mode	PCL	Test Condition	Channel	Verdict
EGSM900	5	NTNV	MCH	PASS

14. AM suppression - packet channels

14.1 Test Result

Test Mode	GAMMA	Test Condition	Channel	Test Item	Verdict
EGSM900	3	NTNV	MCH	BLER	PASS
				USF BLER	PASS

15. Adjacent channel rejection - control channels

15.1 Test Result

Test Mode	PCL	Channel	Test Type	Test Condition	Verdict
EGSM900	5	LCH	Adjacent Time Slot selectivity	NTNV	PASS
				HTHV	PASS
				HTLV	PASS
				LTHV	PASS
				LTLV	PASS
		MCH	Adjacent RF channel selectivity	NTNV	PASS
				HTHV	PASS
				HTLV	PASS
				LTHV	PASS
				LTLV	PASS

16. Adjacent channel rejection - EGPRS

16.1 Test Result

Test Mode	Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
EGSM900	Adjacent	BLER	3	NTNV	MCH	MC1	PASS

	RF channel selectivity					MC2	PASS
						MC3	PASS
						MC4	PASS
						MC5	PASS
						MC6	PASS
						MC7	PASS
						MC8	PASS
						MC9	PASS
				HTHV	MCH	MC4	PASS
						MC9	PASS
				HTLV	MCH	MC4	PASS
						MC9	PASS
				LTHV	MCH	MC4	PASS
						MC9	PASS
				LTLV	MCH	MC4	PASS
						MC9	PASS
		USF BLER	3	NTNV	MCH	MC1	PASS
						MC5	PASS
				HTHV	MCH	MC4	PASS
						MC9	PASS
				HTLV	MCH	MC4	PASS
						MC9	PASS
				LTHV	MCH	MC4	PASS
						MC9	PASS
				LTLV	MCH	MC4	PASS
						MC9	PASS

Test Mode	Test Mode	Test Item	GAMMA	Test Condition	Channel	Coding	Verdict
EGSM900	Adjacent Time Slot selectivity	BLER	3	NTNV	MCH	MC1	PASS
						MC2	PASS
						MC3	PASS
						MC4	PASS
						MC5	PASS
						MC6	PASS
						MC7	PASS
						MC8	PASS
						MC9	PASS
		USF BLER	3	NTNV	MCH	MC1	PASS
						MC5	PASS

17. Minimum Input level for Reference Performance - GPRS

17.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	DL Reference Level	Coding	Verdict
EGSM900	BLER	3	NTNV	MCH	Sensitivity+7	C3	PASS
				HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS
			HTHV	HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS
			HTLV	HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS
			LTHV	HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS

			LTLV	HOPP	Sensitivity+1	C3	PASS
					Sensitivity+1	C4	PASS
	USF BLER	3	NTNV	MCH	Sensitivity-3	C1	PASS
					Sensitivity-3	C2	PASS
					Sensitivity-3	C4	PASS
			HTHV	MCH	Sensitivity+1	C1	PASS
					Sensitivity+1	C2	PASS
					Sensitivity+1	C4	PASS
			HTLV	MCH	Sensitivity+1	C1	PASS
					Sensitivity+1	C2	PASS
					Sensitivity+1	C4	PASS
			LTHV	MCH	Sensitivity+1	C1	PASS
					Sensitivity+1	C2	PASS
					Sensitivity+1	C4	PASS
			LTLV	MCH	Sensitivity+1	C1	PASS
					Sensitivity+1	C2	PASS
					Sensitivity+1	C4	PASS

18. Minimum Input level for Reference Performance - EGPRS

18.1 Test Result

Test Mode	Test Item	GAMMA	Test Condition	Channel	DL Reference Level	Coding	Verdict
EGSM900	BLER	3	NTNV	MCH	Sensitivity+7	MC4	PASS
					Sensitivity+7	MC8	PASS
				HOPP	Sensitivity+1	MC1	PASS
					Sensitivity+1	MC2	PASS
					Sensitivity+1	MC3	PASS
					Sensitivity+1	MC4	PASS
					Sensitivity+1	MC5	PASS
					Sensitivity+1	MC6	PASS
					Sensitivity+1	MC7	PASS
					Sensitivity+1	MC8	PASS
					Sensitivity+1	MC9	PASS
			HTHV	HOPP	Sensitivity+1	MC4	PASS
					Sensitivity+1	MC8	PASS
			HTLV	HOPP	Sensitivity+1	MC4	PASS
					Sensitivity+1	MC8	PASS
			LTHV	HOPP	Sensitivity+1	MC4	PASS
					Sensitivity+1	MC8	PASS
			LTLV	HOPP	Sensitivity+1	MC4	PASS
					Sensitivity+1	MC8	PASS
	USF BLER	3	NTNV	MCH	Sensitivity-3	MC1	PASS
					Sensitivity-3	MC5	PASS
			HTHV	MCH	Sensitivity+1	MC1	PASS
					Sensitivity+1	MC5	PASS
			HTLV	MCH	Sensitivity+1	MC1	PASS
					Sensitivity+1	MC5	PASS
			LTHV	MCH	Sensitivity+1	MC1	PASS
					Sensitivity+1	MC5	PASS
			LTLV	MCH	Sensitivity+1	MC1	PASS
					Sensitivity+1	MC5	PASS