

GSM 850 Test Data

FCC ID: 2BLBN-SMART

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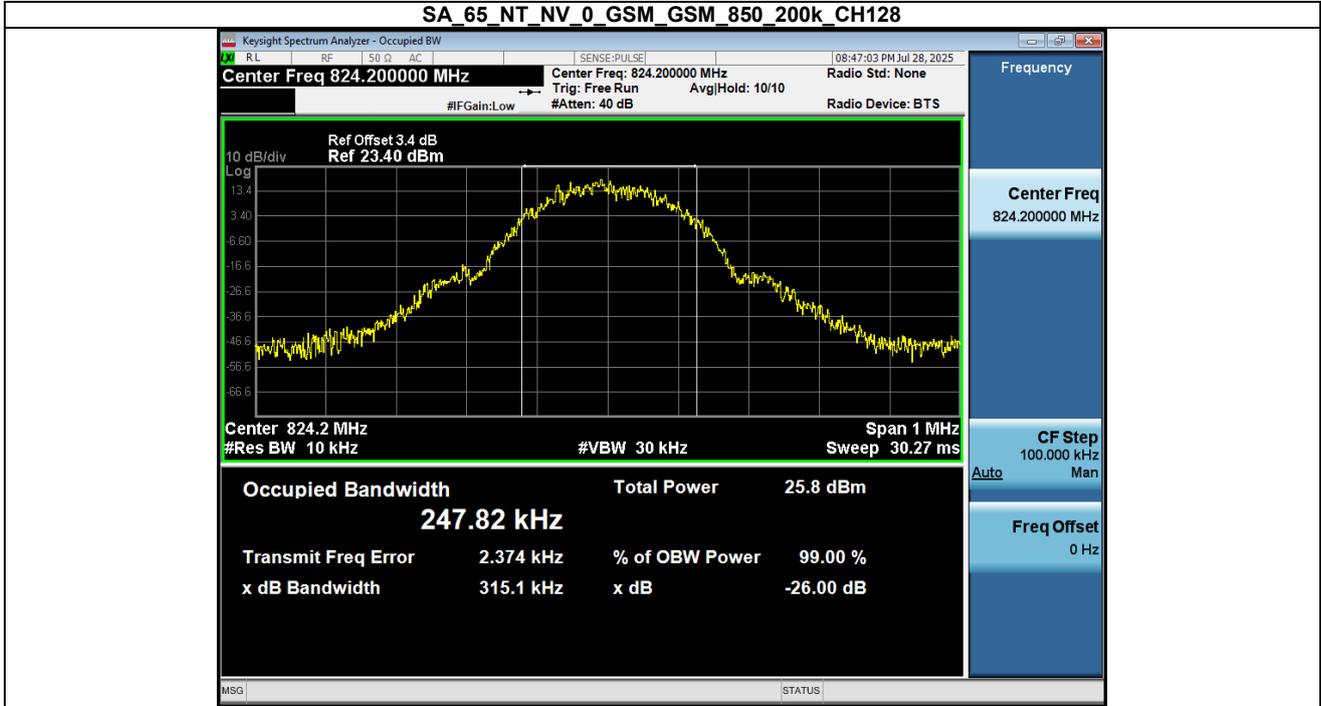
1. Conducted Output Power&&EIRP/ERP

Condition	Band	Modulation	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
NVNT	GSM 850	GMSK	824.2	30.91	0.72	29.48	38.45	Pass
NVNT	GSM 850	GMSK	836.6	31.97	0.72	30.54	38.45	Pass
NVNT	GSM 850	GMSK	848.8	31.81	0.72	30.38	38.45	Pass

ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Band	Modulation	Frequency(MHz)	OBW(MHz)	-26EBW(MHz)
NVNT	GSM 850	GMSK	824.2	0.2478	0.3151
NVNT	GSM 850	GMSK	836.6	0.2446	0.3075
NVNT	GSM 850	GMSK	848.8	0.2451	0.3131



SA_65_NT_NV_0_GSM_GSM_850_200k_CH251

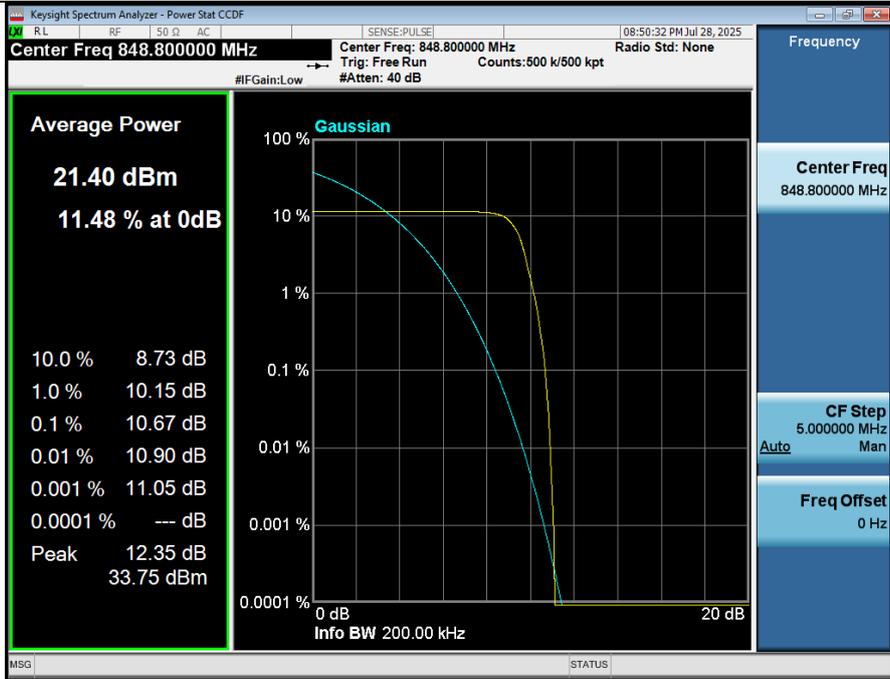


3. Peak to Average Ratio

Condition	Band	Modulation	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GSM	GSM 850	824.2	10.63	13.00	Pass
NVNT	GSM	GSM 850	836.6	10.57	13.00	Pass
NVNT	GSM	GSM 850	848.8	10.67	13.00	Pass

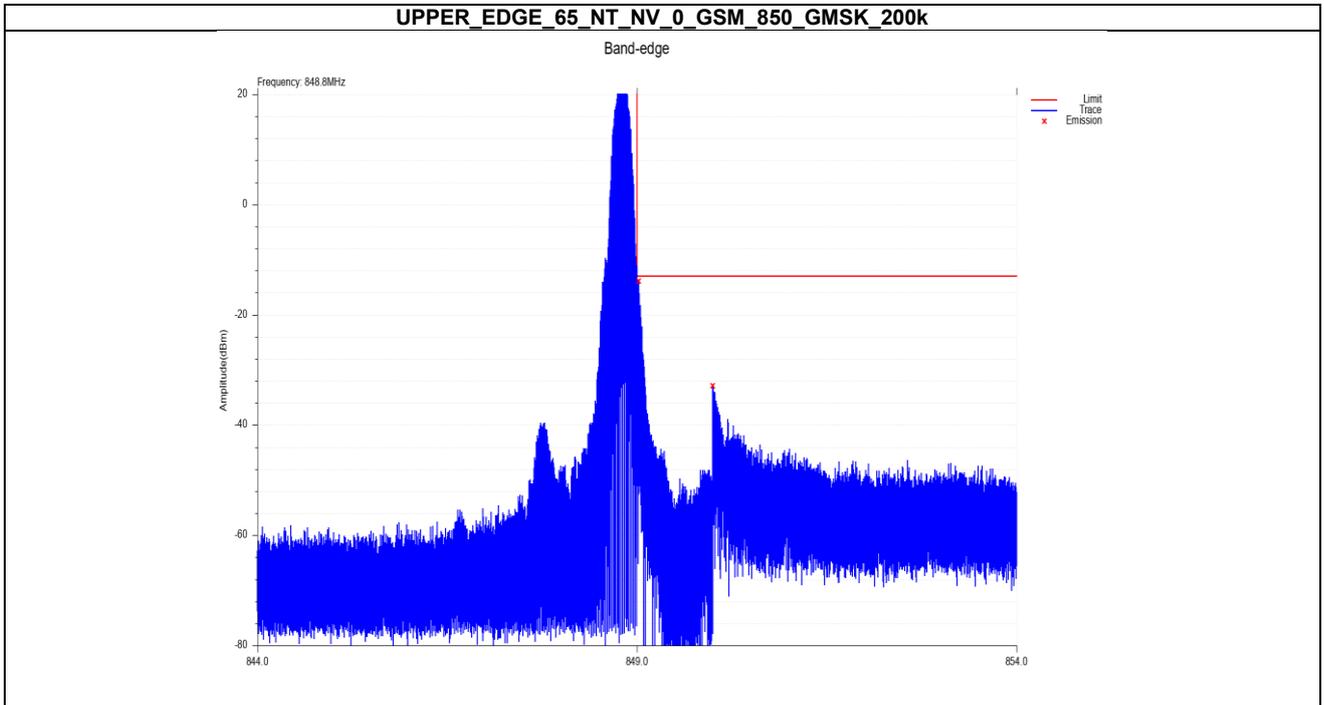
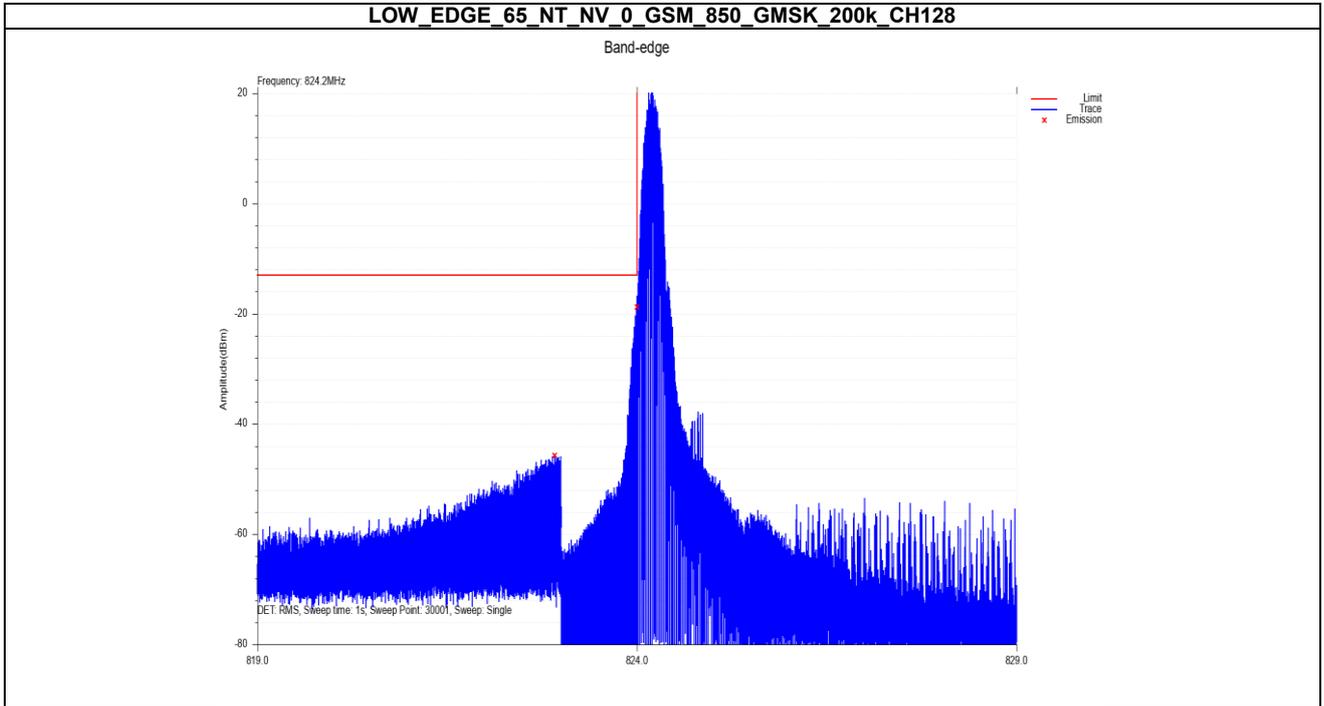


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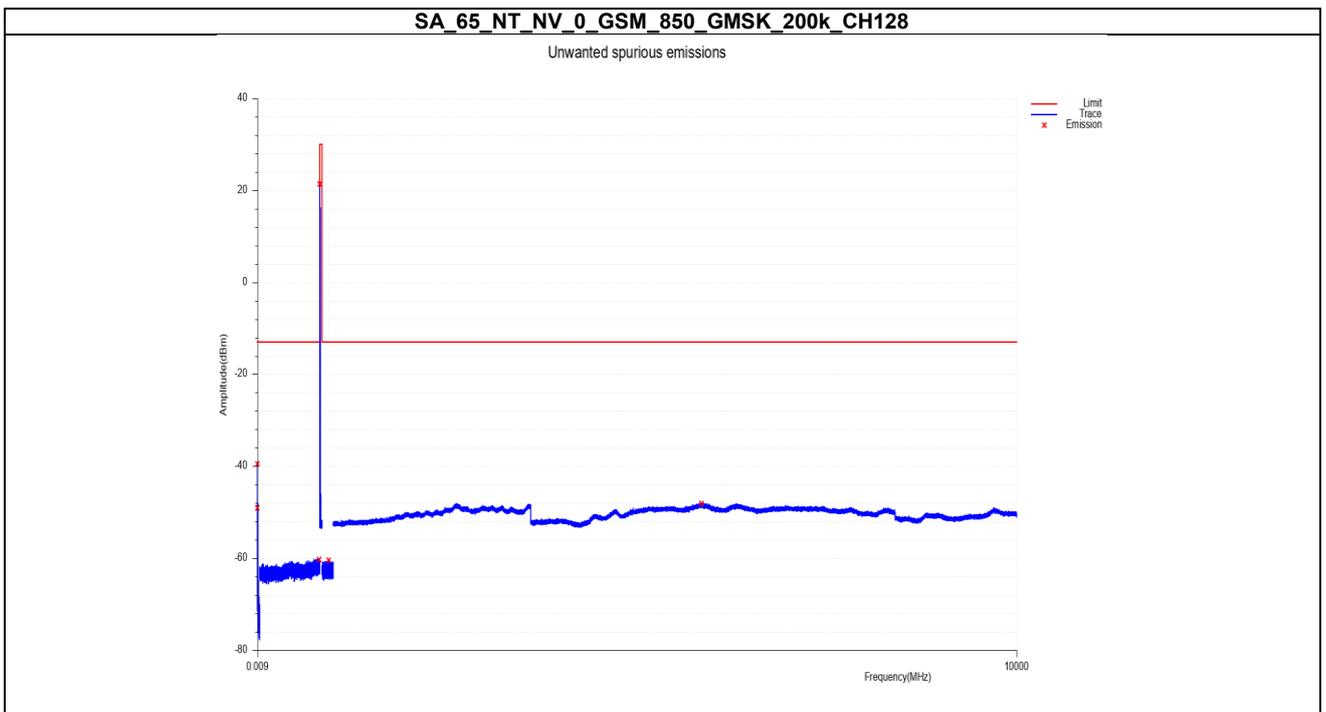
4. Unwanted Spurious Emission

Condition	Mode	Band	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GSM 850	GMSK	824.20	1000	819.0~823.0	822.914	-45.67	-13	Pass
NVNT	GSM 850	GMSK	824.20	3	823.0~824.0	823.997	-18.77	-13	Pass
NVNT	GSM 850	GMSK	848.80	3	849.0~850.0	849.019	-13.88	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	850.0~854.0	850.000	-32.88	-13	Pass

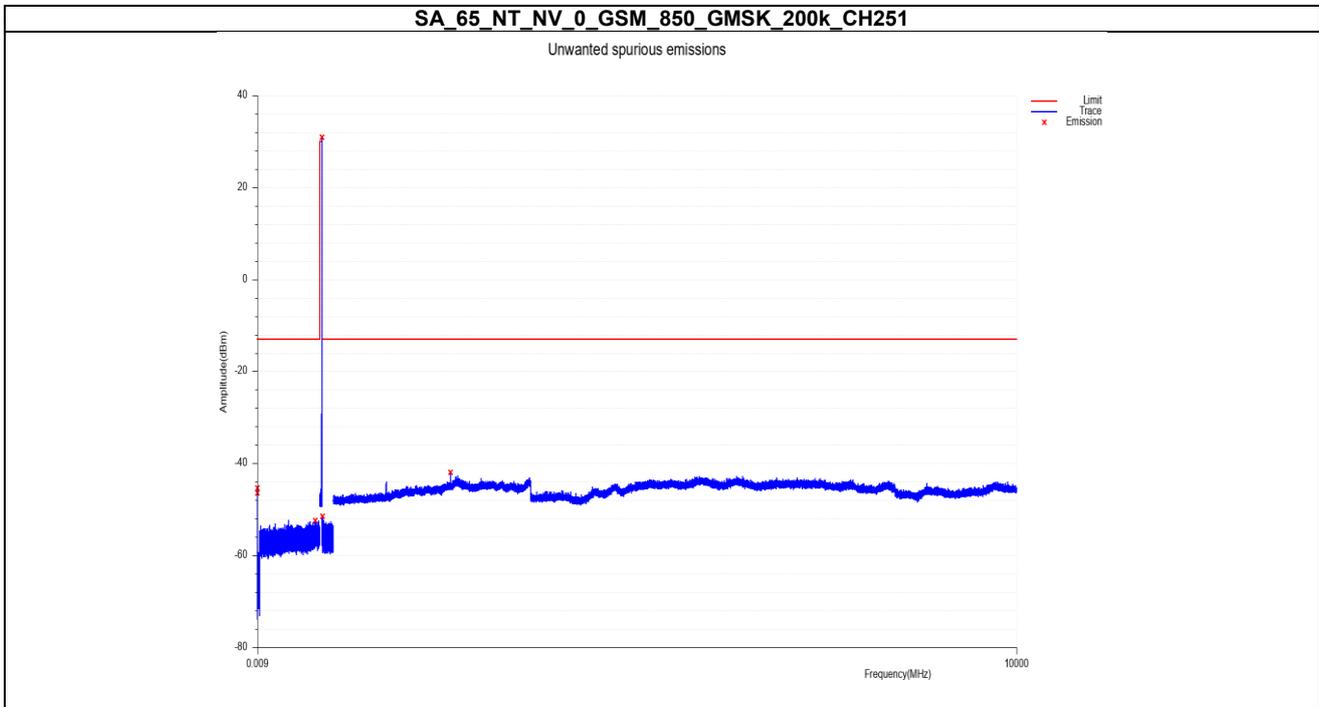
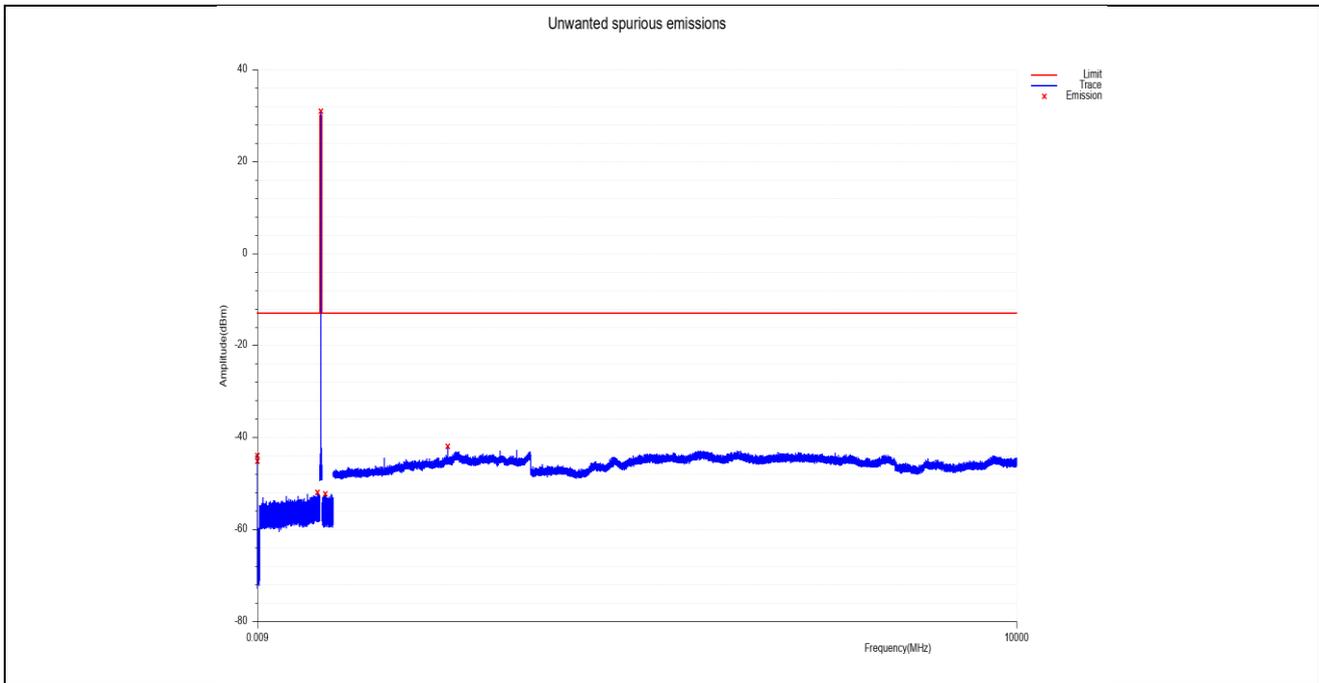


Condition	Band	Modulation	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GSM	GMSK	824.20	1	0.009~0.150	0.010	-43.98	-13	Pass

	850								
NVNT	GSM 850	GMSK	824.20	10	0.150~30.000	0.150	-47.67	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	30.000~819.000	816.160	-51.40	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	854.000~1000.000	900.530	-51.74	-13	Pass
NVNT	GSM 850	GMSK	824.20	1000	1000.000~10000.000	2472.400	-40.50	-13	Pass
NVNT	GSM 850	GMSK	836.60	1	0.009~0.150	0.010	-43.90	-13	Pass
NVNT	GSM 850	GMSK	836.60	10	0.150~30.000	0.156	-45.24	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	30.000~819.000	794.436	-51.89	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	854.000~1000.000	896.515	-52.32	-13	Pass
NVNT	GSM 850	GMSK	836.60	1000	1000.000~10000.000	2510.200	-41.98	-13	Pass
NVNT	GSM 850	GMSK	848.80	1	0.009~0.150	0.010	-45.40	-13	Pass
NVNT	GSM 850	GMSK	848.80	10	0.150~30.000	0.158	-46.42	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	30.000~819.000	764.927	-52.35	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	854.000~1000.000	856.219	-51.49	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	1000.000~10000.000	2546.800	-42.01	-13	Pass



SA_65_NT_NV_0_GSM_850_GMSK_200k_CH190



5. Frequency Stability

Temperature(C)	Voltage(V)	Band	Modulation	Frequency(MHz)	Frequency Stabilization (ppm)	Limit_Low(ppm)	Limit_Up(ppm)	Result
-30	3.47	GSM 850	GMSK	824.2	0.0021	-2.50	2.50	Pass
-30	3.47	GSM 850	GMSK	836.6	0.0016	-2.50	2.50	Pass
-30	3.47	GSM 850	GMSK	848.8	0.0039	-2.50	2.50	Pass
-30	3.85	GSM 850	GMSK	824.2	0.0068	-2.50	2.50	Pass
-30	3.85	GSM 850	GMSK	836.6	0.0042	-2.50	2.50	Pass
-30	3.85	GSM 850	GMSK	848.8	0.0074	-2.50	2.50	Pass
-30	4.24	GSM 850	GMSK	824.2	0.0037	-2.50	2.50	Pass
-30	4.24	GSM 850	GMSK	836.6	0.0026	-2.50	2.50	Pass
-30	4.24	GSM 850	GMSK	848.8	0.0032	-2.50	2.50	Pass
-20	3.47	GSM 850	GMSK	824.2	0.0027	-2.50	2.50	Pass
-20	3.47	GSM 850	GMSK	836.6	0.0011	-2.50	2.50	Pass
-20	3.47	GSM 850	GMSK	848.8	0.0059	-2.50	2.50	Pass
-20	3.85	GSM 850	GMSK	824.2	0.0043	-2.50	2.50	Pass
-20	3.85	GSM 850	GMSK	836.6	0.0040	-2.50	2.50	Pass
-20	3.85	GSM 850	GMSK	848.8	0.0031	-2.50	2.50	Pass
-20	4.24	GSM 850	GMSK	824.2	0.0008	-2.50	2.50	Pass
-20	4.24	GSM 850	GMSK	836.6	0.0052	-2.50	2.50	Pass
-20	4.24	GSM 850	GMSK	848.8	0.0043	-2.50	2.50	Pass
-10	3.47	GSM 850	GMSK	824.2	0.0045	-2.50	2.50	Pass
-10	3.47	GSM 850	GMSK	836.6	0.0021	-2.50	2.50	Pass
-10	3.47	GSM 850	GMSK	848.8	0.0075	-2.50	2.50	Pass
-10	3.85	GSM 850	GMSK	824.2	0.0018	-2.50	2.50	Pass
-10	3.85	GSM 850	GMSK	836.6	0.0015	-2.50	2.50	Pass
-10	3.85	GSM 850	GMSK	848.8	0.0031	-2.50	2.50	Pass
-10	4.24	GSM 850	GMSK	824.2	0.0027	-2.50	2.50	Pass
-10	4.24	GSM 850	GMSK	836.6	0.0065	-2.50	2.50	Pass
-10	4.24	GSM 850	GMSK	848.8	0.0042	-2.50	2.50	Pass
0	3.47	GSM 850	GMSK	824.2	0.0008	-2.50	2.50	Pass
0	3.47	GSM 850	GMSK	836.6	0.0037	-2.50	2.50	Pass
0	3.47	GSM 850	GMSK	848.8	0.0042	-2.50	2.50	Pass
0	3.85	GSM 850	GMSK	824.2	0.0020	-2.50	2.50	Pass
0	3.85	GSM 850	GMSK	836.6	0.0013	-2.50	2.50	Pass
0	3.85	GSM 850	GMSK	848.8	0.0067	-2.50	2.50	Pass
0	4.24	GSM	GMSK	824.2	0.0042	-2.50	2.50	Pass

		850						
0	4.24	GSM 850	GMSK	836.6	0.0027	-2.50	2.50	Pass
0	4.24	GSM 850	GMSK	848.8	0.0059	-2.50	2.50	Pass
10	3.47	GSM 850	GMSK	824.2	0.0027	-2.50	2.50	Pass
10	3.47	GSM 850	GMSK	836.6	0.0063	-2.50	2.50	Pass
10	3.47	GSM 850	GMSK	848.8	0.0042	-2.50	2.50	Pass
10	3.85	GSM 850	GMSK	824.2	0.0050	-2.50	2.50	Pass
10	3.85	GSM 850	GMSK	836.6	0.0041	-2.50	2.50	Pass
10	3.85	GSM 850	GMSK	848.8	0.0044	-2.50	2.50	Pass
10	4.24	GSM 850	GMSK	824.2	0.0020	-2.50	2.50	Pass
10	4.24	GSM 850	GMSK	836.6	0.0025	-2.50	2.50	Pass
10	4.24	GSM 850	GMSK	848.8	0.0058	-2.50	2.50	Pass
20	3.47	GSM 850	GMSK	824.2	0.0013	-2.50	2.50	Pass
20	3.47	GSM 850	GMSK	836.6	0.0057	-2.50	2.50	Pass
20	3.47	GSM 850	GMSK	848.8	0.0048	-2.50	2.50	Pass
20	3.85	GSM 850	GMSK	824.2	0.0020	-2.50	2.50	Pass
20	3.85	GSM 850	GMSK	836.6	0.0058	-2.50	2.50	Pass
20	3.85	GSM 850	GMSK	848.8	0.0044	-2.50	2.50	Pass
20	4.24	GSM 850	GMSK	824.2	0.0046	-2.50	2.50	Pass
20	4.24	GSM 850	GMSK	836.6	-0.0001	-2.50	2.50	Pass
20	4.24	GSM 850	GMSK	848.8	0.0029	-2.50	2.50	Pass
30	3.47	GSM 850	GMSK	824.2	0.0021	-2.50	2.50	Pass
30	3.47	GSM 850	GMSK	836.6	0.0069	-2.50	2.50	Pass
30	3.47	GSM 850	GMSK	848.8	0.0053	-2.50	2.50	Pass
30	3.85	GSM 850	GMSK	824.2	0.0030	-2.50	2.50	Pass
30	3.85	GSM 850	GMSK	836.6	0.0073	-2.50	2.50	Pass
30	3.85	GSM 850	GMSK	848.8	0.0037	-2.50	2.50	Pass
30	4.24	GSM 850	GMSK	824.2	0.0032	-2.50	2.50	Pass
30	4.24	GSM 850	GMSK	836.6	0.0072	-2.50	2.50	Pass
30	4.24	GSM 850	GMSK	848.8	0.0047	-2.50	2.50	Pass
40	3.47	GSM 850	GMSK	824.2	0.0073	-2.50	2.50	Pass
40	3.47	GSM 850	GMSK	836.6	0.0017	-2.50	2.50	Pass
40	3.47	GSM 850	GMSK	848.8	0.0028	-2.50	2.50	Pass
40	3.85	GSM 850	GMSK	824.2	0.0044	-2.50	2.50	Pass
40	3.85	GSM 850	GMSK	836.6	0.0040	-2.50	2.50	Pass
40	3.85	GSM 850	GMSK	848.8	0.0046	-2.50	2.50	Pass
40	4.24	GSM 850	GMSK	824.2	0.0015	-2.50	2.50	Pass
40	4.24	GSM 850	GMSK	836.6	0.0038	-2.50	2.50	Pass
40	4.24	GSM 850	GMSK	848.8	0.0039	-2.50	2.50	Pass

50	3.47	GSM 850	GMSK	824.2	0.0025	-2.50	2.50	Pass
50	3.47	GSM 850	GMSK	836.6	0.0009	-2.50	2.50	Pass
50	3.47	GSM 850	GMSK	848.8	0.0024	-2.50	2.50	Pass
50	3.85	GSM 850	GMSK	824.2	0.0021	-2.50	2.50	Pass
50	3.85	GSM 850	GMSK	836.6	0.0033	-2.50	2.50	Pass
50	3.85	GSM 850	GMSK	848.8	0.0059	-2.50	2.50	Pass
50	4.24	GSM 850	GMSK	824.2	0.0005	-2.50	2.50	Pass
50	4.24	GSM 850	GMSK	836.6	0.0023	-2.50	2.50	Pass
50	4.24	GSM 850	GMSK	848.8	0.0030	-2.50	2.50	Pass