

GPRS 850 Test Data

Table of Contents

1. Conducted Output Power&&EIRP/ERP.....	2
2. Occupied Bandwidth	3
3. Peak to Average Ratio.....	5
4. Unwanted Spurious Emission	7
5. Frequency Stability	11

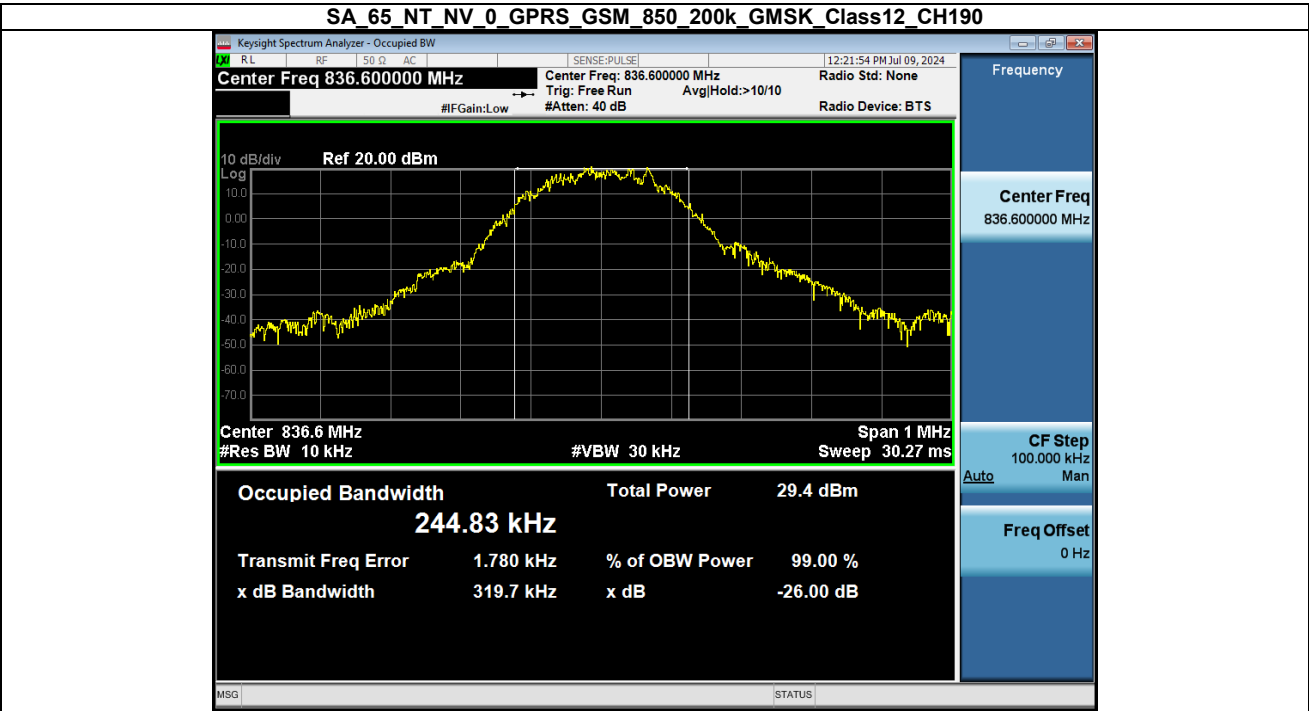
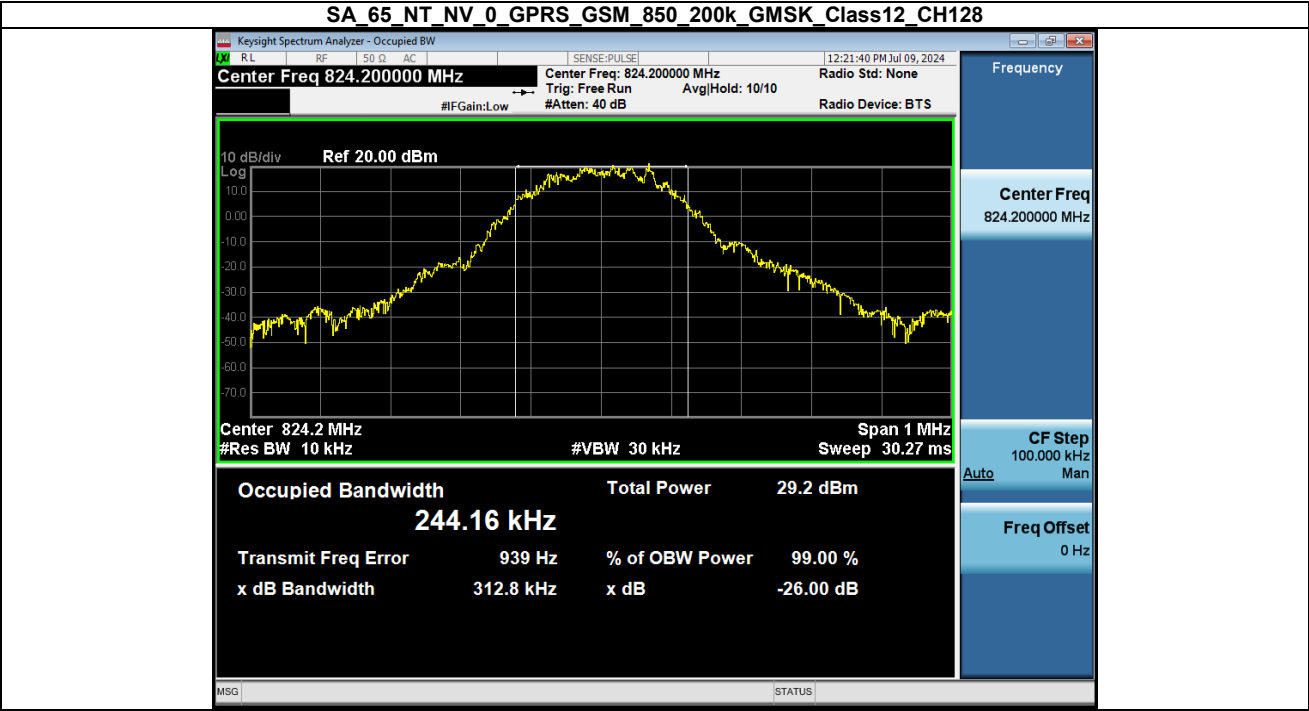
1. Conducted Output Power&&EIRP/ERP

Services	Band	Modulation	Class Type	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
GPRS	GSM 850	GMSK	Class8	824.2	30.95	-6.1	22.70	38.45	Pass
GPRS	GSM 850	GMSK	Class10	824.2	29.10	-6.1	20.85	38.45	Pass
GPRS	GSM 850	GMSK	Class11	824.2	30.06	-6.1	21.81	38.45	Pass
GPRS	GSM 850	GMSK	Class12	824.2	29.47	-6.1	21.22	38.45	Pass
GPRS	GSM 850	GMSK	Class8	836.6	30.60	-6.1	22.35	38.45	Pass
GPRS	GSM 850	GMSK	Class10	836.6	30.73	-6.1	22.48	38.45	Pass
GPRS	GSM 850	GMSK	Class11	836.6	28.96	-6.1	20.71	38.45	Pass
GPRS	GSM 850	GMSK	Class12	836.6	29.62	-6.1	21.37	38.45	Pass
GPRS	GSM 850	GMSK	Class8	848.8	29.20	-6.1	20.95	38.45	Pass
GPRS	GSM 850	GMSK	Class10	848.8	30.24	-6.1	21.99	38.45	Pass
GPRS	GSM 850	GMSK	Class11	848.8	29.32	-6.1	21.07	38.45	Pass
GPRS	GSM 850	GMSK	Class12	848.8	29.93	-6.1	21.68	38.45	Pass

ERP = Conducted Power + ANT Gain - 2.15

2. Occupied Bandwidth

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	OBW(MHz)	26EBW(MHz)
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	0.2442	0.3128
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	0.2448	0.3197
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	0.2420	0.3107

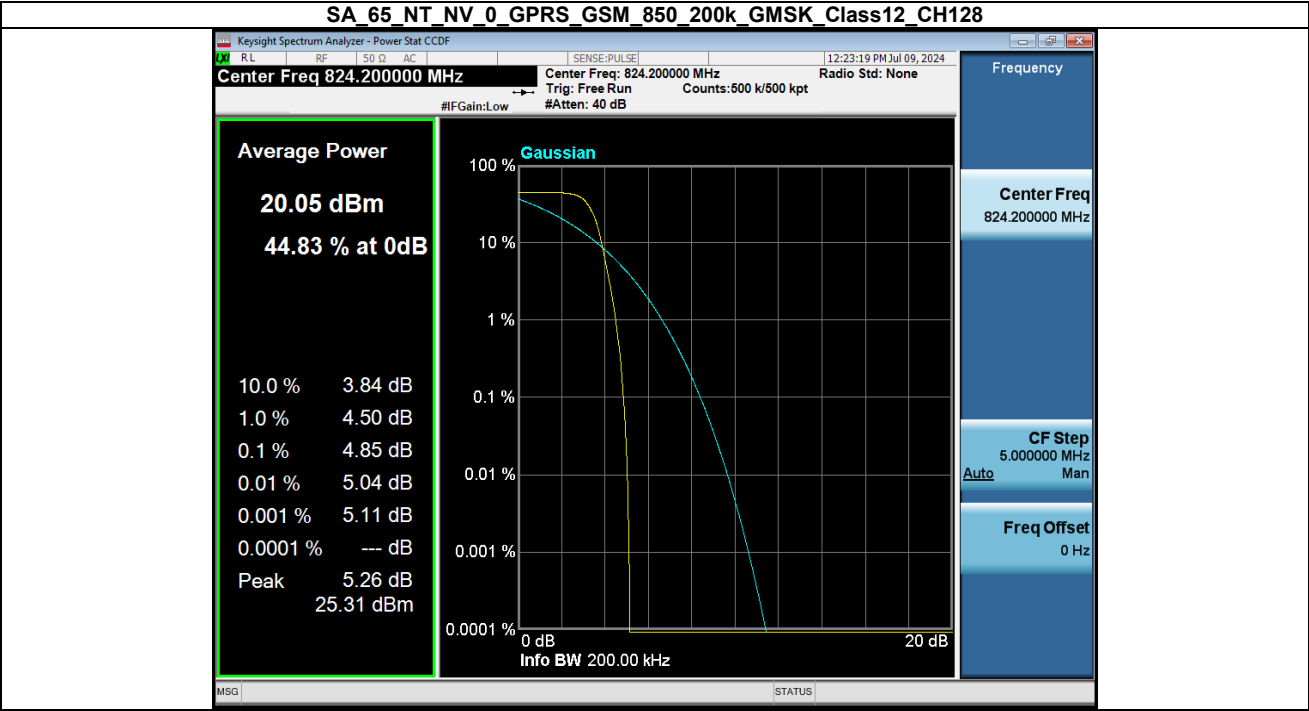


SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

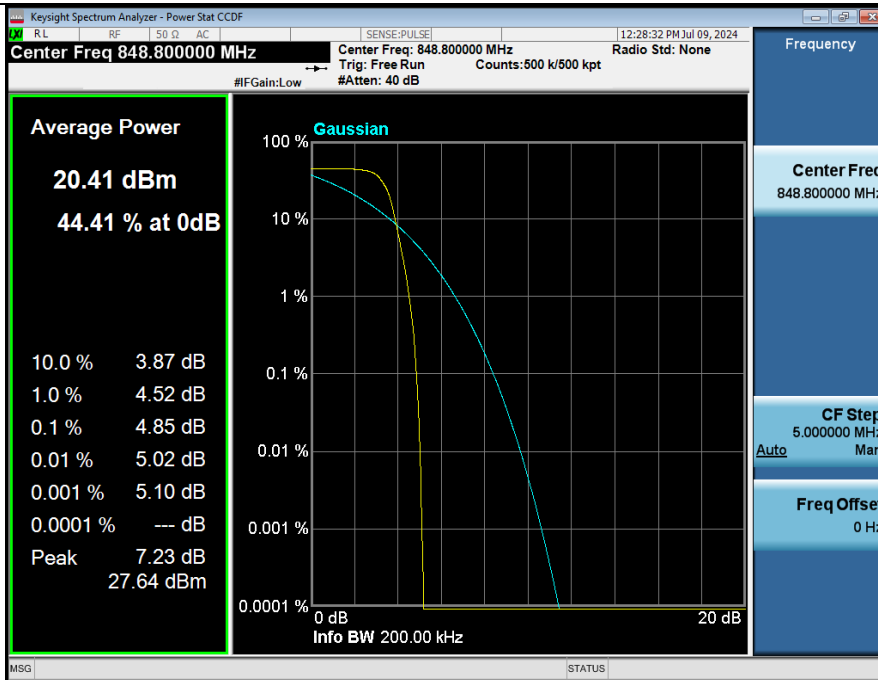


3. Peak to Average Ratio

Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	4.85	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	4.77	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	4.85	13.00	Pass



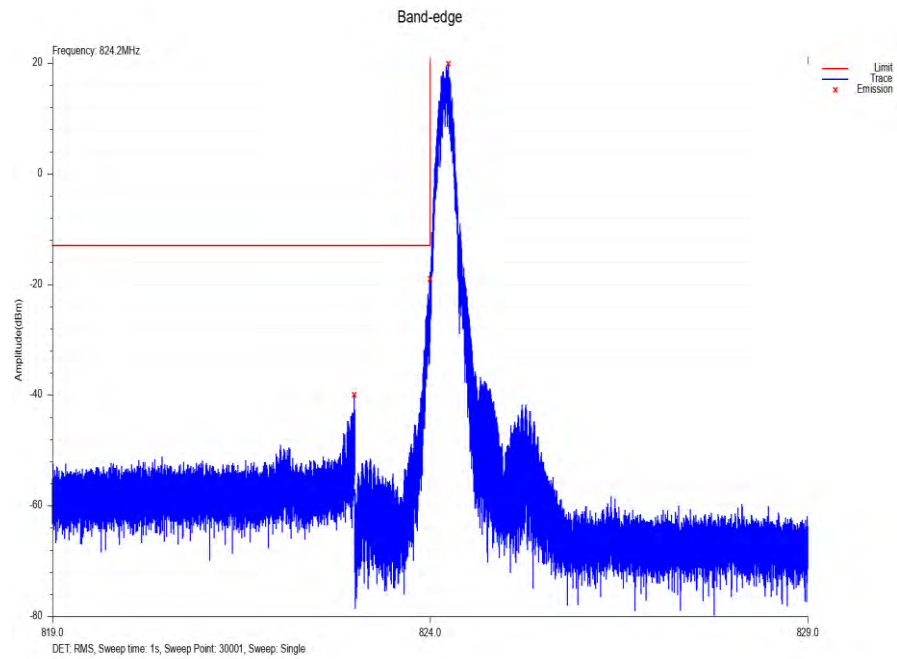
SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251



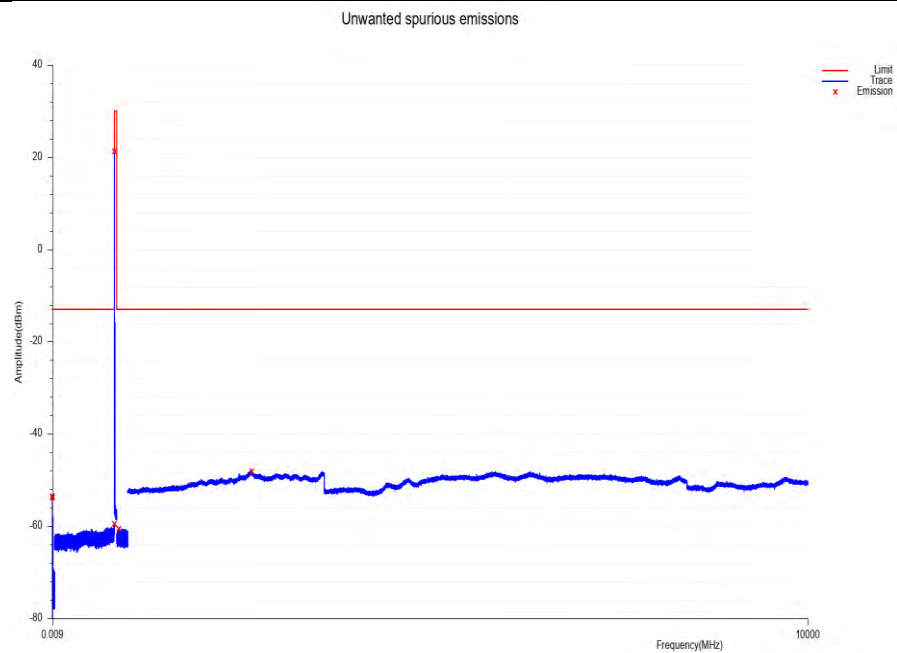
4. Unwanted Spurious Emission

Services	Band	Modulation	Class Type	Frequency(MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Result
GPRS	GSM 850	GMSK	Class12	824.20	1000	819.0~823.0	822.999	-39.99	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	3	823.0~824.0	823.997	-19.01	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	1	0.009~0.150	0.009	-53.50	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	10	0.150~30.000	0.153	-53.80	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	100	30.000~819.000	818.632	-59.45	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	100	854.000~1000.000	880.100	-60.61	-13	Pass
GPRS	GSM 850	GMSK	Class12	824.20	1000	1000.000~10000.000	2636.200	-48.14	-13	Pass
GPRS	GSM 850	GMSK	Class12	836.60	1	0.009~0.150	0.010	-53.79	-13	Pass
GPRS	GSM 850	GMSK	Class12	836.60	10	0.150~30.000	0.151	-55.32	-13	Pass
GPRS	GSM 850	GMSK	Class12	836.60	100	30.000~819.000	815.081	-60.03	-13	Pass
GPRS	GSM 850	GMSK	Class12	836.60	100	854.000~1000.000	944.437	-60.61	-13	Pass
GPRS	GSM 850	GMSK	Class12	836.60	1000	1000.000~10000.000	1760.800	-46.14	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	3	849.0~850.0	849.003	-17.07	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	1000	850.0~854.0	850.021	-37.34	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	1	0.009~0.150	0.010	-53.55	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	10	0.150~30.000	0.159	-55.84	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	100	30.000~819.000	817.054	-60.04	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	100	854.000~1000.000	854.545	-59.01	-13	Pass
GPRS	GSM 850	GMSK	Class12	848.80	1000	1000.000~10000.000	2630.800	-48.14	-13	Pass

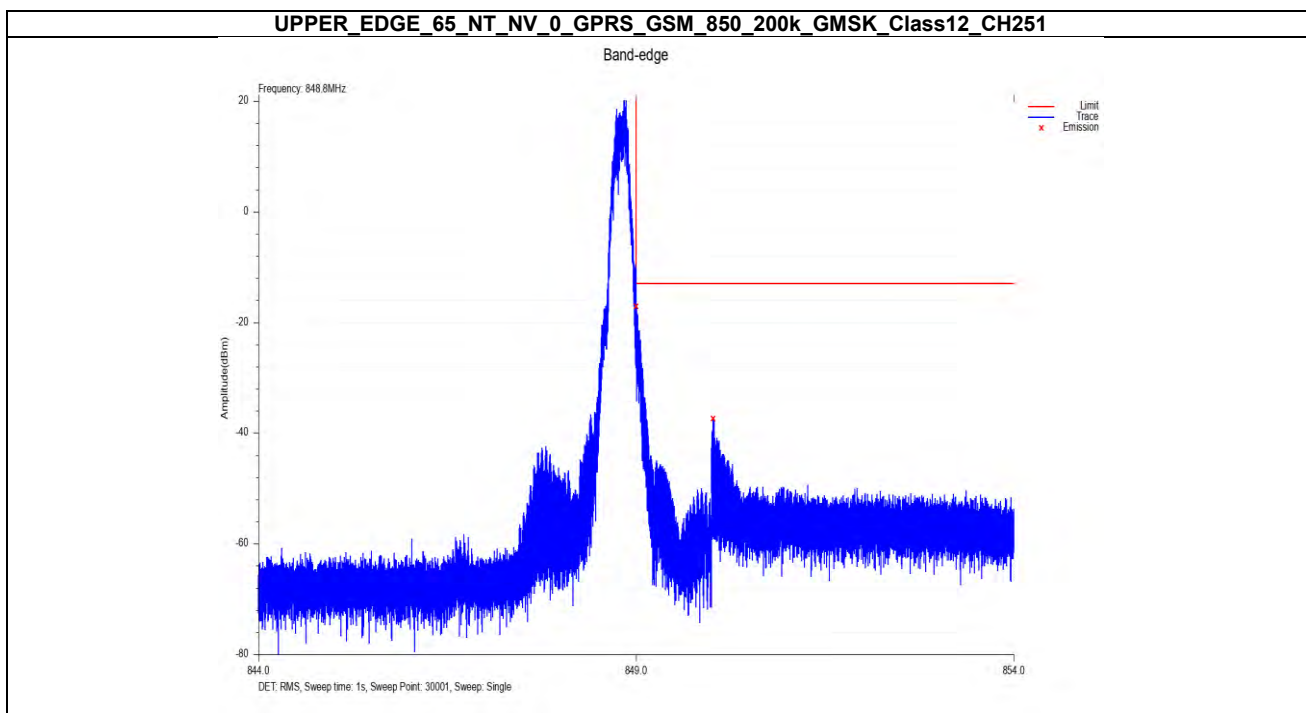
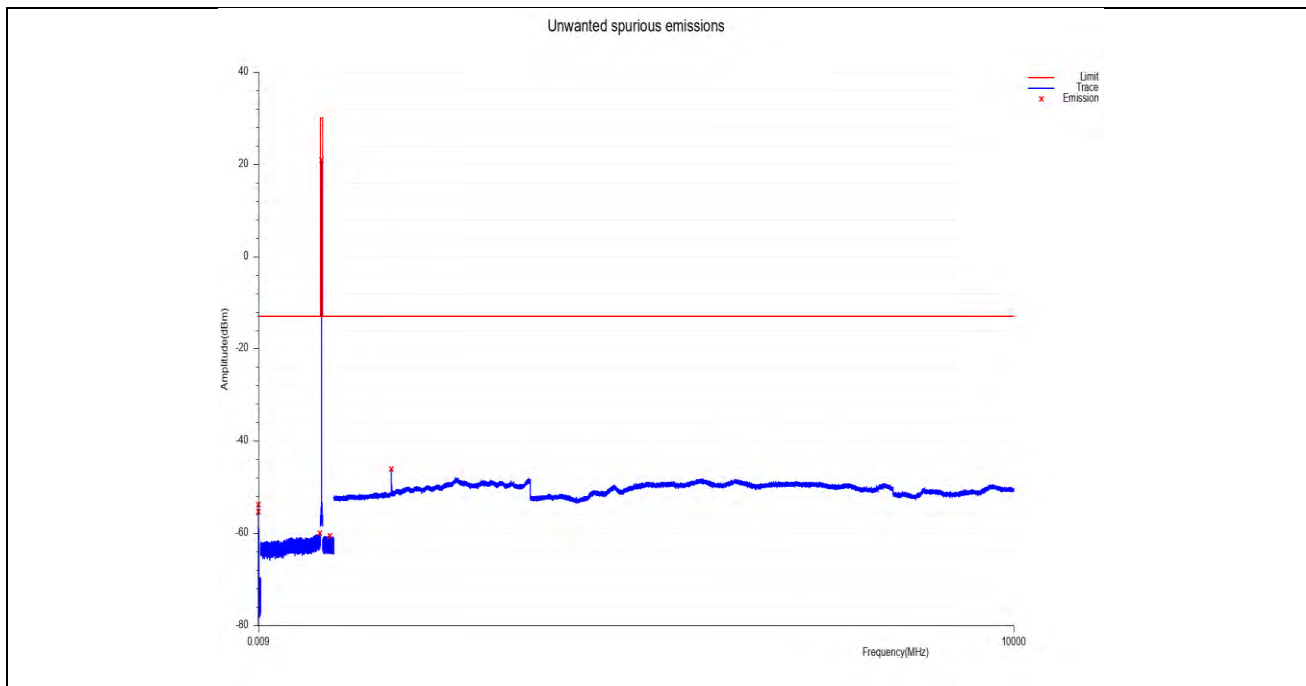
LOW_EDGE_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH128



SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH128

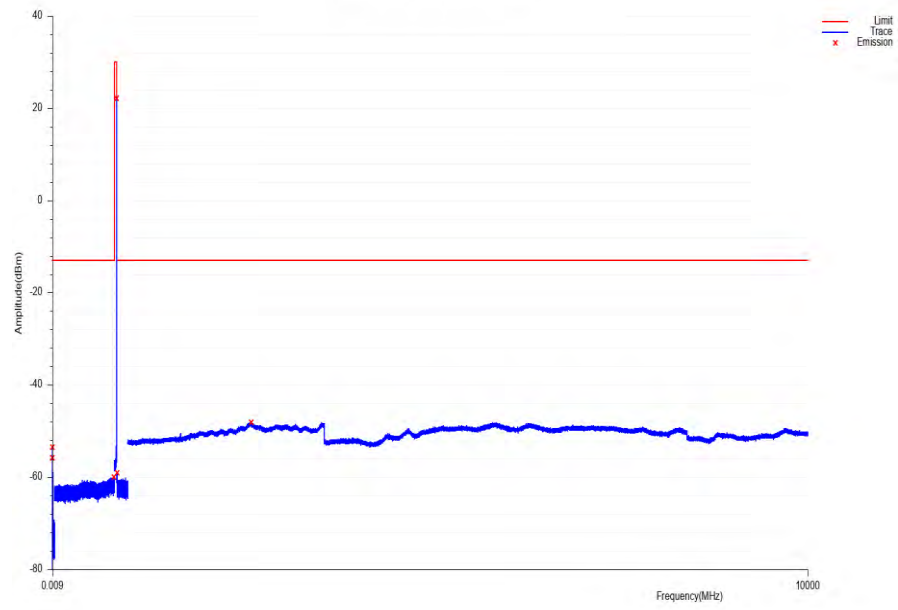


SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH190



SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

Unwanted spurious emissions



5. Frequency Stability

Temperature (C)	Voltage (V)	Services	Band	Modulation	Class Type	Frequency (MHz)	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0072	-2.50	2.50	Pass
-30	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0080	-2.50	2.50	Pass
-30	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0103	-2.50	2.50	Pass
-30	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0088	-2.50	2.50	Pass
-30	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0035	-2.50	2.50	Pass
-30	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0067	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0080	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0049	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0076	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0070	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0070	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0098	-2.50	2.50	Pass
-20	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0056	-2.50	2.50	Pass
-20	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0051	-2.50	2.50	Pass
-20	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0080	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0096	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0063	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0072	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0064	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0057	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0066	-2.50	2.50	Pass
-10	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0081	-2.50	2.50	Pass
-10	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0019	-2.50	2.50	Pass
-10	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0104	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0060	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0045	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0058	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0046	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0085	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0074	-2.50	2.50	Pass
0	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0053	-2.50	2.50	Pass
0	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0085	-2.50	2.50	Pass
0	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0068	-2.50	2.50	Pass
0	4.2	GPRS	GSM	GMSK	Class1	824.2	0.0037	-2.50	2.50	Pass

			850		2					
0	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0067	-2.50	2.50	Pass
0	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0079	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0051	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0071	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0080	-2.50	2.50	Pass
10	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0103	-2.50	2.50	Pass
10	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0036	-2.50	2.50	Pass
10	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0075	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0071	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0064	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0057	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0051	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0105	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0087	-2.50	2.50	Pass
20	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0057	-2.50	2.50	Pass
20	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0062	-2.50	2.50	Pass
20	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0044	-2.50	2.50	Pass
20	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0053	-2.50	2.50	Pass
20	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0094	-2.50	2.50	Pass
20	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0063	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0060	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0055	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0063	-2.50	2.50	Pass
30	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0076	-2.50	2.50	Pass
30	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0040	-2.50	2.50	Pass
30	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0101	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0060	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0079	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0106	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0068	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0078	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0071	-2.50	2.50	Pass
40	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0051	-2.50	2.50	Pass
40	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0049	-2.50	2.50	Pass
40	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0075	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0026	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0074	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0073	-2.50	2.50	Pass

50	3.3	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0070	-2.50	2.50	Pass
50	3.3	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0088	-2.50	2.50	Pass
50	3.3	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0093	-2.50	2.50	Pass
50	3.8	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0084	-2.50	2.50	Pass
50	3.8	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0082	-2.50	2.50	Pass
50	3.8	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0085	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class1 2	824.2	0.0051	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class1 2	836.6	0.0098	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class1 2	848.8	0.0083	-2.50	2.50	Pass