

GSM 850 Test Data

FCC ID: 2BTNX-ZINGPLAYER

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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	30.69	1.20	29.74	38.45	Pass
NVNT	GSM 850	GMSK	836.6	31.78	1.20	30.83	38.45	Pass
NVNT	GSM 850	GMSK	848.8	32.36	1.20	31.41	38.45	Pass

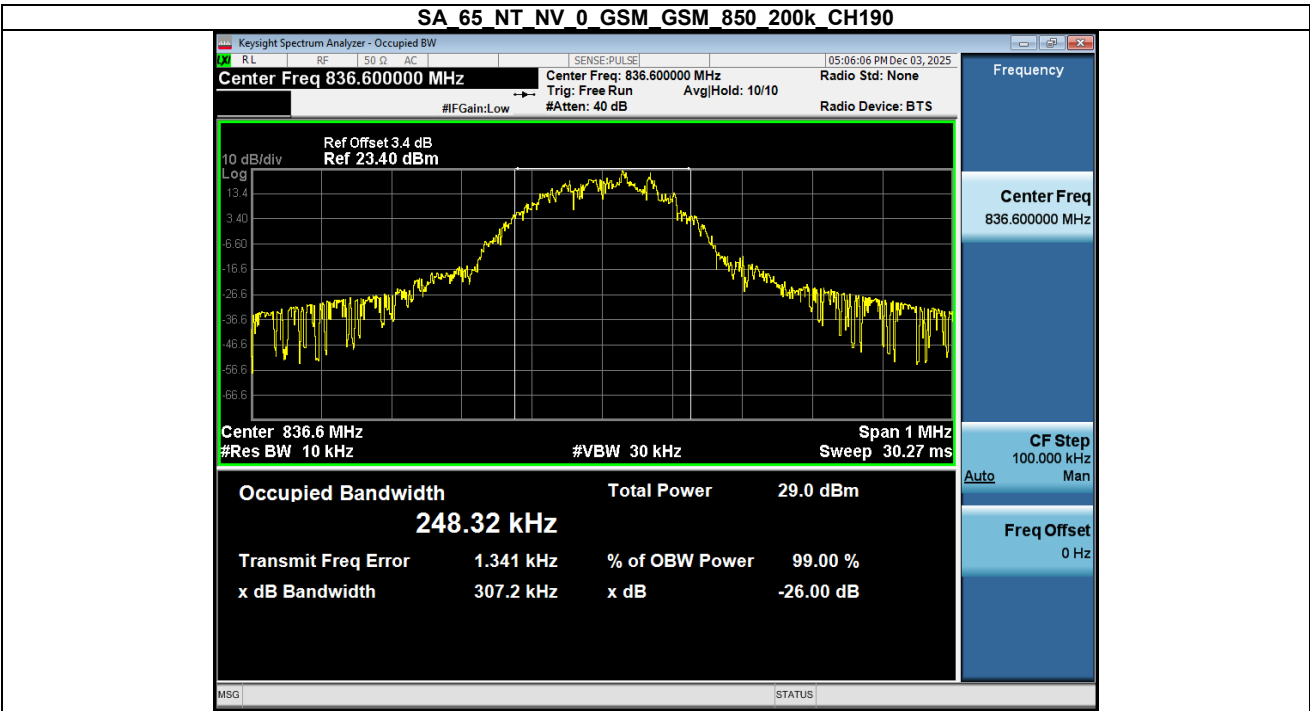
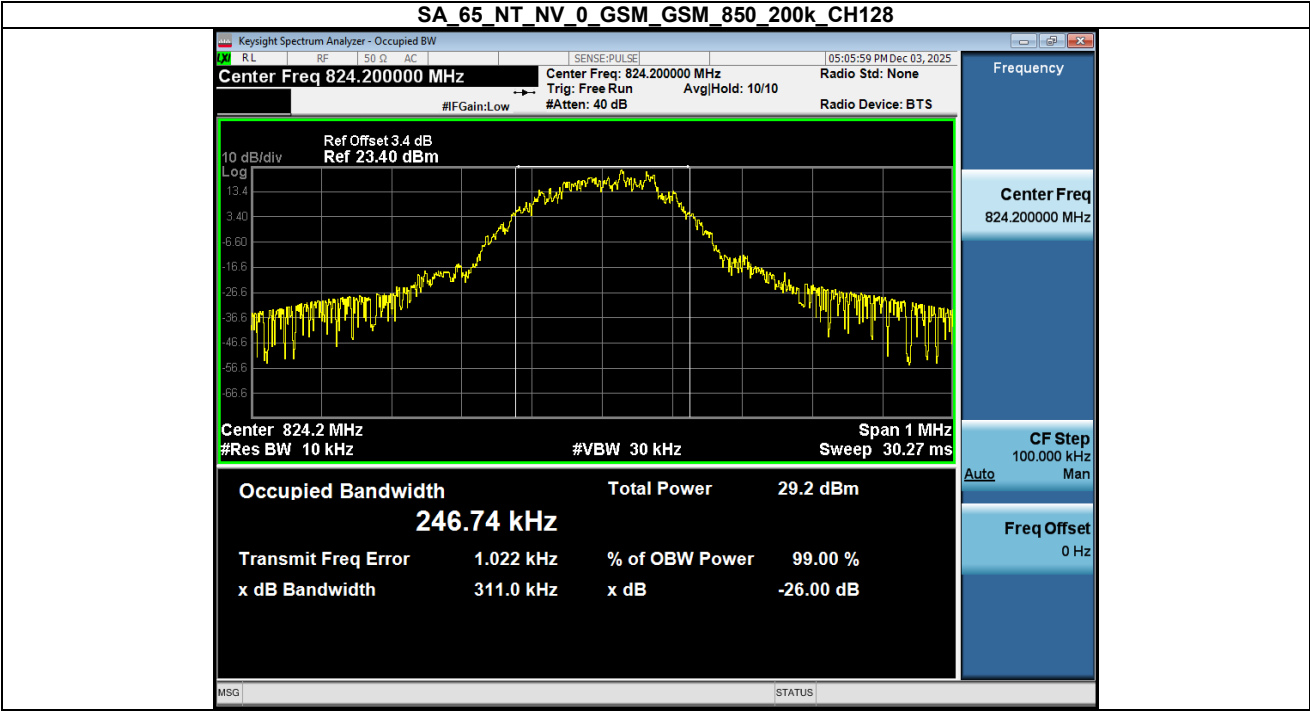
Services	Band	Modulation	Class Type	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
GPRS	GSM 850	GMSK	Class8	824.2	30.98	1.20	30.03	38.45	Pass
GPRS	GSM 850	GMSK	Class10	824.2	29.25	1.20	28.30	38.45	Pass
GPRS	GSM 850	GMSK	Class11	824.2	29.98	1.20	29.03	38.45	Pass
GPRS	GSM 850	GMSK	Class12	824.2	29.31	1.20	28.36	38.45	Pass
GPRS	GSM 850	GMSK	Class8	836.6	30.47	1.20	29.52	38.45	Pass
GPRS	GSM 850	GMSK	Class10	836.6	30.73	1.20	29.78	38.45	Pass
GPRS	GSM 850	GMSK	Class11	836.6	28.84	1.20	27.89	38.45	Pass
GPRS	GSM 850	GMSK	Class12	836.6	29.60	1.20	28.65	38.45	Pass
GPRS	GSM 850	GMSK	Class8	848.8	31.04	1.20	30.09	38.45	Pass
GPRS	GSM 850	GMSK	Class10	848.8	30.49	1.20	29.54	38.45	Pass
GPRS	GSM 850	GMSK	Class11	848.8	29.55	1.20	28.60	38.45	Pass
GPRS	GSM 850	GMSK	Class12	848.8	29.99	1.20	29.04	38.45	Pass

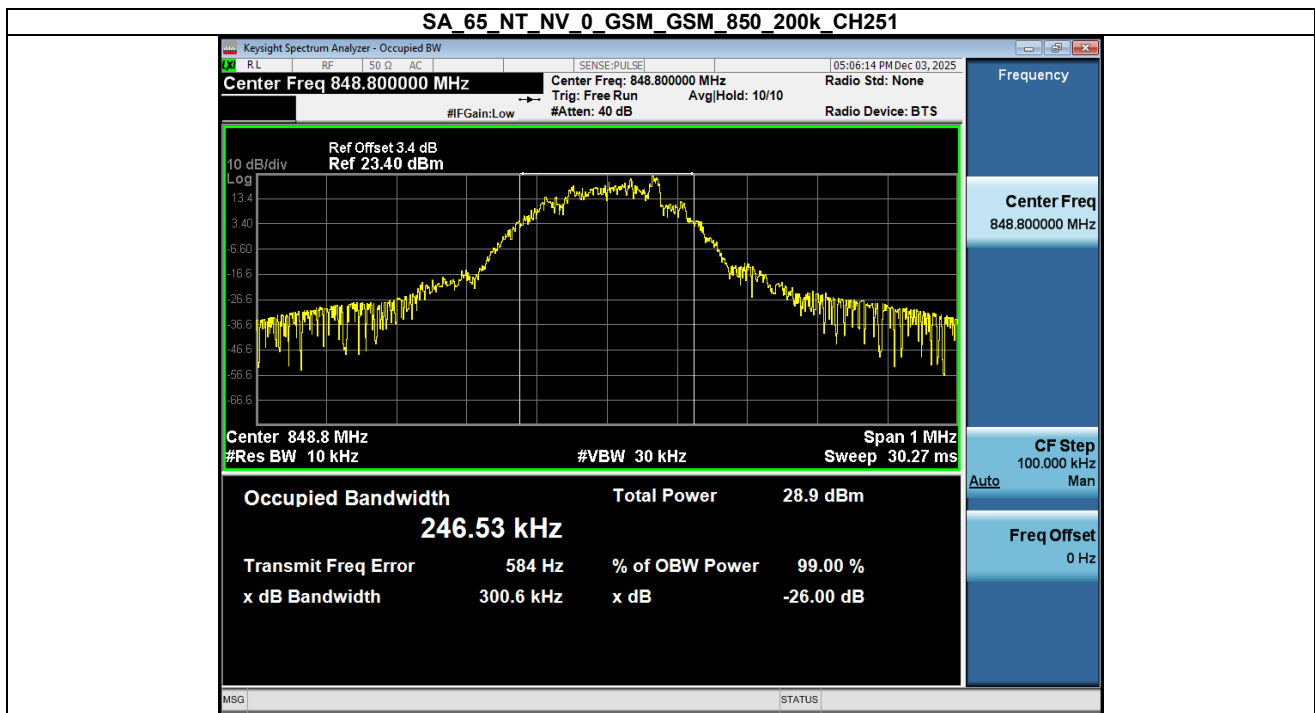
Services	Band	Modulation	Class Type	Frequency(MHz)	Conducted Power(dBm)	ANT Gain(dBi)	ERP(dBm)	limit(dBm)	Result
EGPRS	GSM 850	GMSK	Class8	824.2	31.14	1.20	30.19	38.45	Pass
EGPRS	GSM 850	GMSK	Class10	824.2	29.76	1.20	28.81	38.45	Pass
EGPRS	GSM 850	GMSK	Class11	824.2	31.08	1.20	30.13	38.45	Pass
EGPRS	GSM 850	GMSK	Class12	824.2	30.71	1.20	29.76	38.45	Pass
EGPRS	GSM 850	8PSK	Class8	824.2	30.00	1.20	29.05	38.45	Pass
EGPRS	GSM 850	8PSK	Class10	824.2	30.66	1.20	29.71	38.45	Pass
EGPRS	GSM 850	8PSK	Class11	824.2	30.09	1.20	29.14	38.45	Pass
EGPRS	GSM 850	8PSK	Class12	824.2	30.28	1.20	29.33	38.45	Pass
EGPRS	GSM 850	GMSK	Class8	836.6	30.66	1.20	29.71	38.45	Pass
EGPRS	GSM 850	GMSK	Class10	836.6	29.92	1.20	28.97	38.45	Pass
EGPRS	GSM 850	GMSK	Class11	836.6	30.77	1.20	29.82	38.45	Pass
EGPRS	GSM 850	GMSK	Class12	836.6	30.45	1.20	29.50	38.45	Pass
EGPRS	GSM 850	8PSK	Class8	836.6	30.44	1.20	29.49	38.45	Pass
EGPRS	GSM 850	8PSK	Class10	836.6	30.42	1.20	29.47	38.45	Pass
EGPRS	GSM 850	8PSK	Class11	836.6	30.6	1.20	29.65	38.45	Pass
EGPRS	GSM 850	8PSK	Class12	836.6	29.81	1.20	28.86	38.45	Pass
EGPRS	GSM 850	GMSK	Class8	848.8	29.91	1.20	28.96	38.45	Pass
EGPRS	GSM 850	GMSK	Class10	848.8	30.69	1.20	29.74	38.45	Pass
EGPRS	GSM 850	GMSK	Class11	848.8	30.85	1.20	29.90	38.45	Pass
EGPRS	GSM 850	GMSK	Class12	848.8	29.92	1.20	28.97	38.45	Pass
EGPRS	GSM 850	8PSK	Class8	848.8	30.95	1.20	30.00	38.45	Pass
EGPRS	GSM 850	8PSK	Class10	848.8	30.66	1.20	29.71	38.45	Pass
EGPRS	GSM 850	8PSK	Class11	848.8	29.93	1.20	28.98	38.45	Pass
EGPRS	GSM 850	8PSK	Class12	848.8	30.84	1.20	29.89	38.45	Pass

ERP = Conducted Power + ANT Gain - 2.15

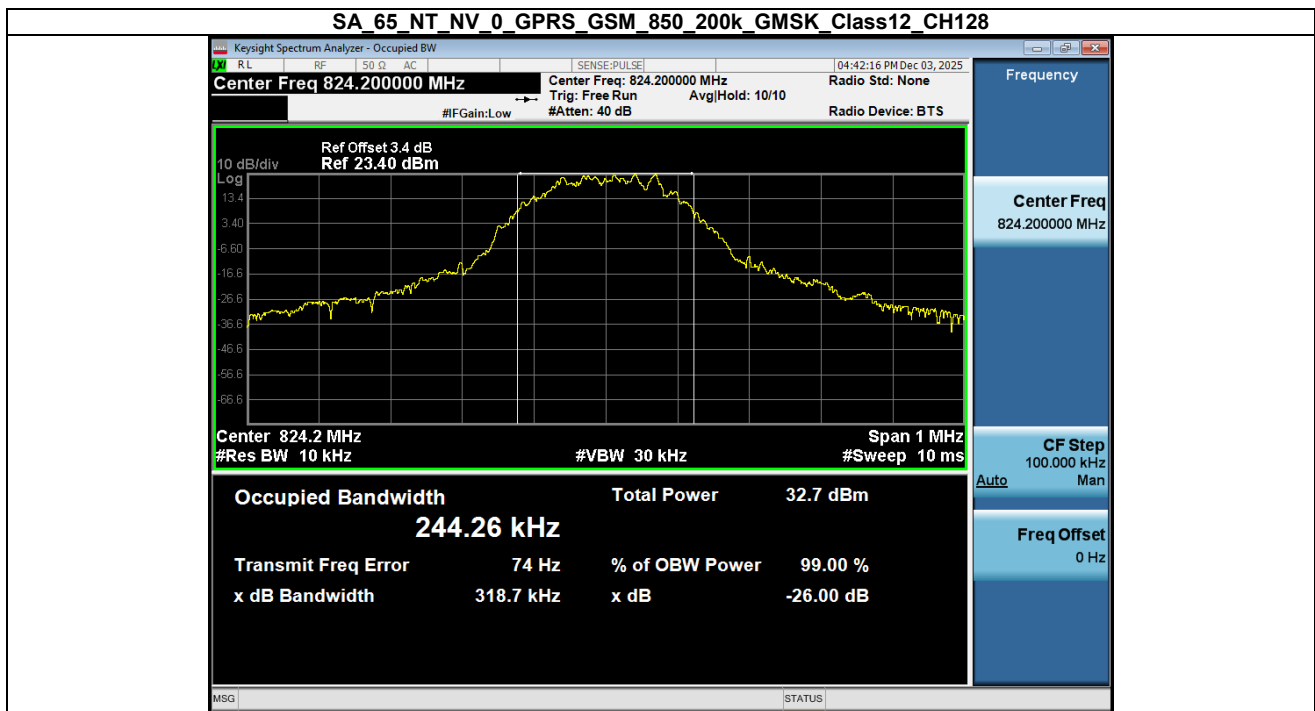
2. Occupied Bandwidth

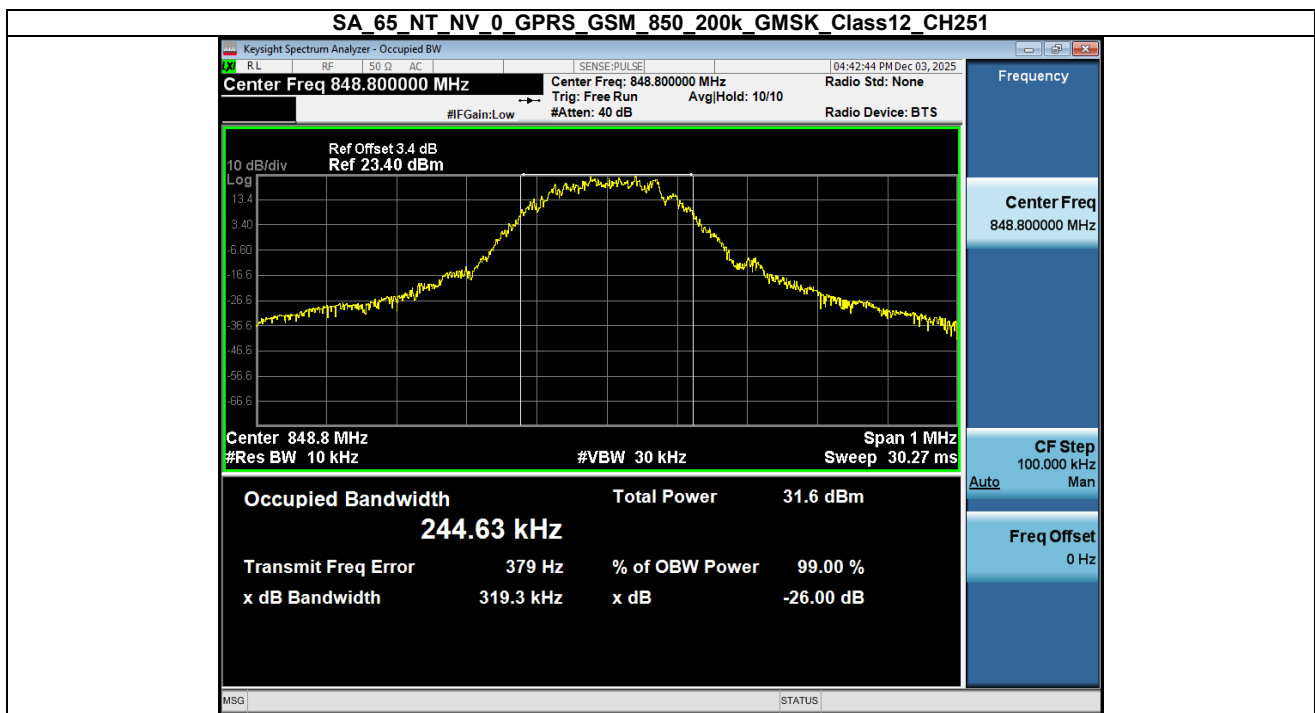
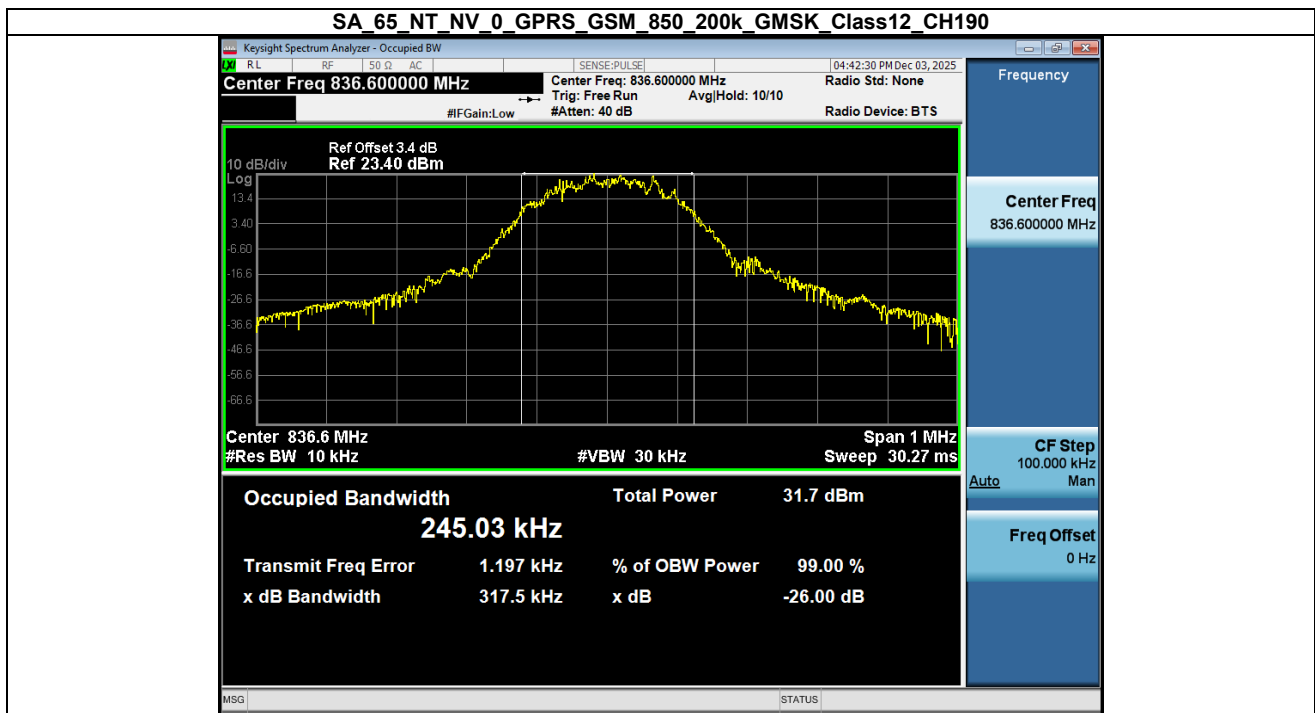
Condition	Band	Modulation	Frequency(MHz)	OBW(MHz)	-26EBW(MHz)
NVNT	GSM 850	GMSK	824.2	0.2467	0.3110
NVNT	GSM 850	GMSK	836.6	0.2483	0.3072
NVNT	GSM 850	GMSK	848.8	0.2465	0.3006





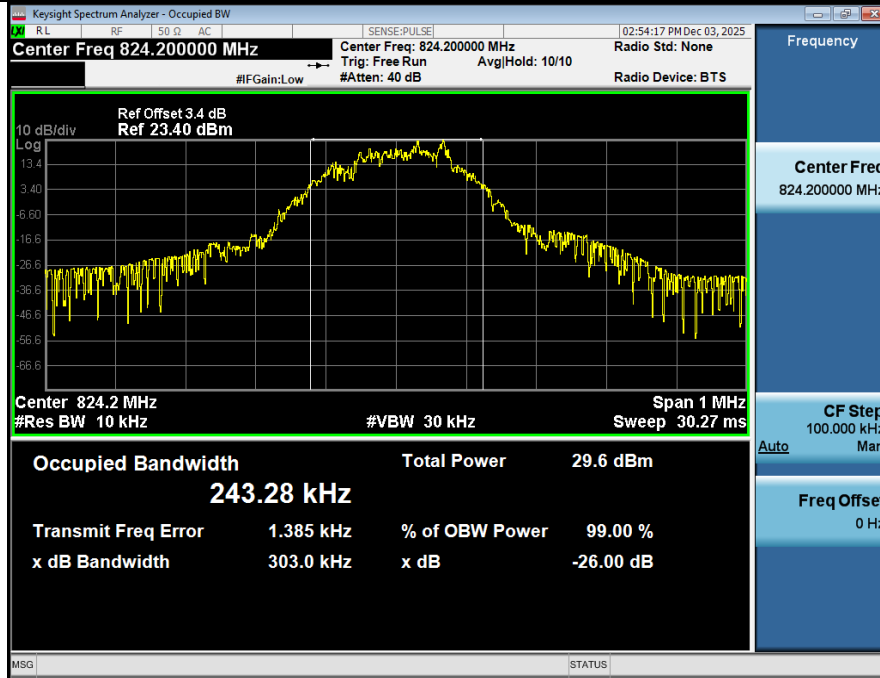
Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	OBW(MHz)	- 26EBW(MHz)
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	0.2443	0.3187
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	0.2451	0.3175
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	0.2446	0.3193



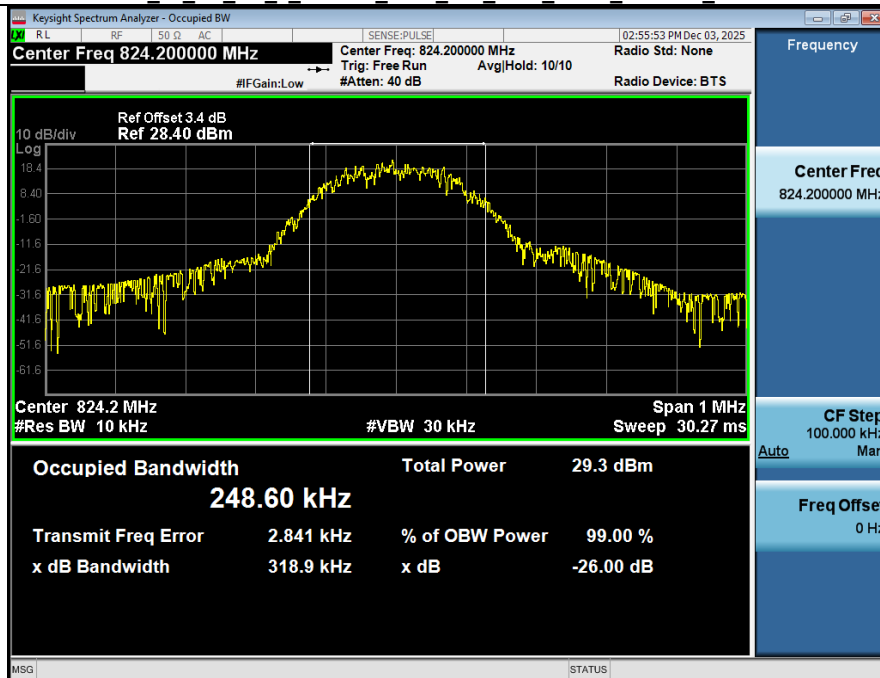


Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	OBW(MHz)	-26EBW(MHz)
NVNT	EGPRS	GSM 850	GMSK	Class12	824.2	0.2433	0.3030
NVNT	EGPRS	GSM 850	8PSK	Class12	824.2	0.2486	0.3189
NVNT	EGPRS	GSM 850	GMSK	Class12	836.6	0.2486	0.3119
NVNT	EGPRS	GSM 850	8PSK	Class12	836.6	0.2456	0.3149
NVNT	EGPRS	GSM 850	GMSK	Class12	848.8	0.2475	0.3185
NVNT	EGPRS	GSM 850	8PSK	Class12	848.8	0.2527	0.3126

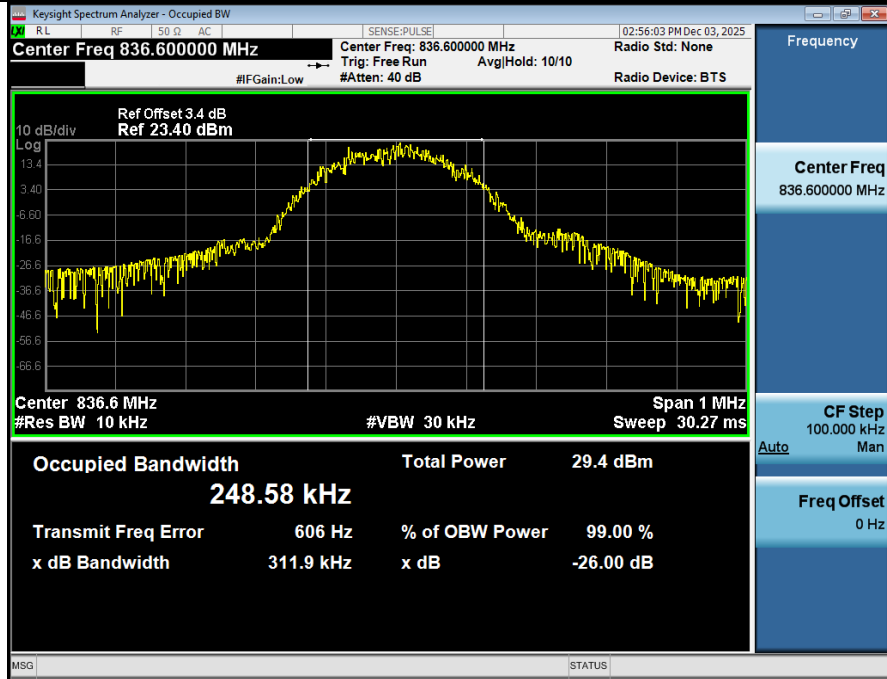
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SA 65_NT_NV_0 EGPRS GSM 850 200k 8PSK_Class12_CH128



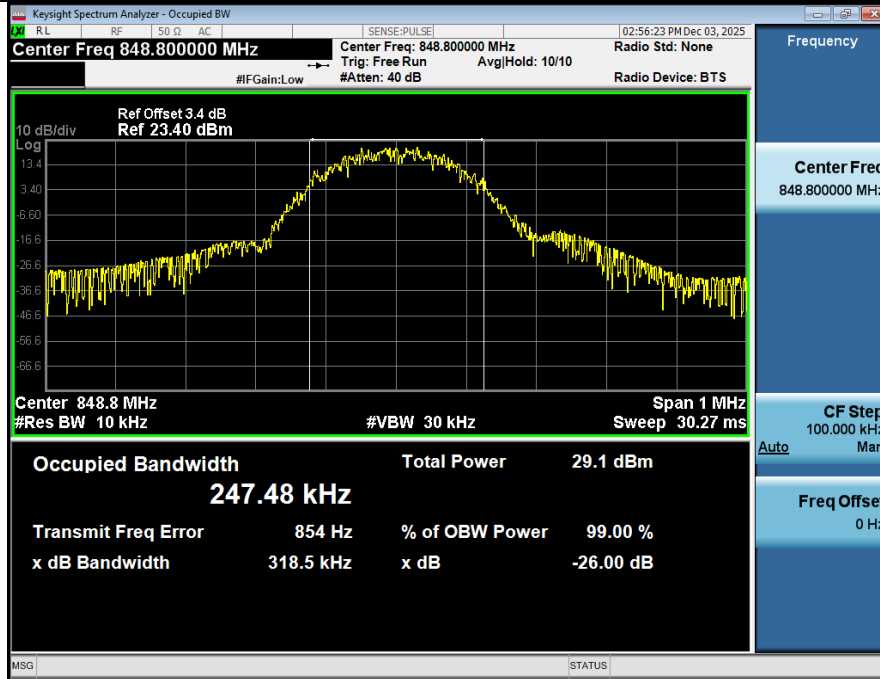
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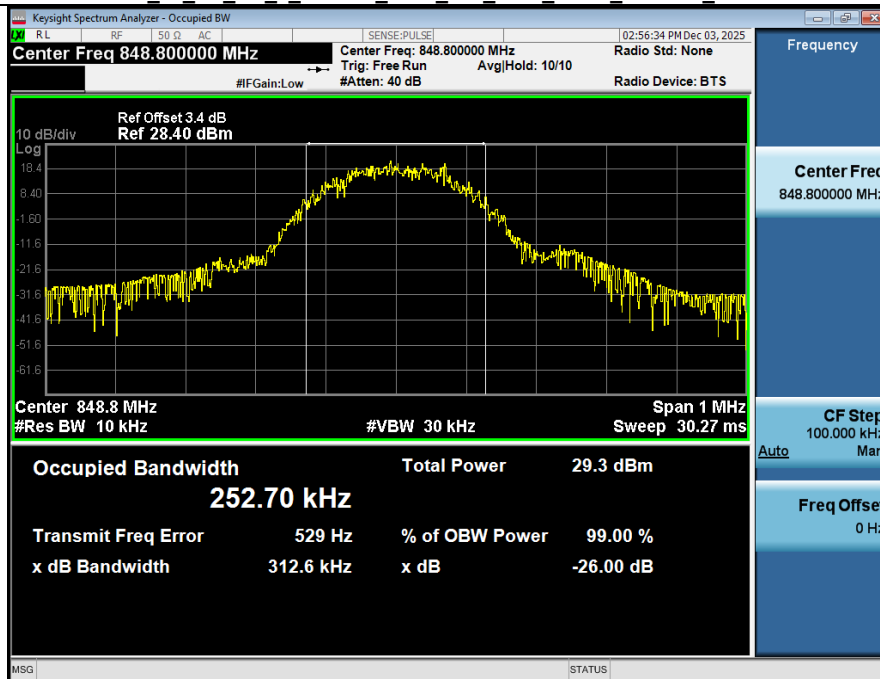
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SA 65_NT_NV_0_EGPRS_GSM_850_200k_GMSK_Class12_CH251

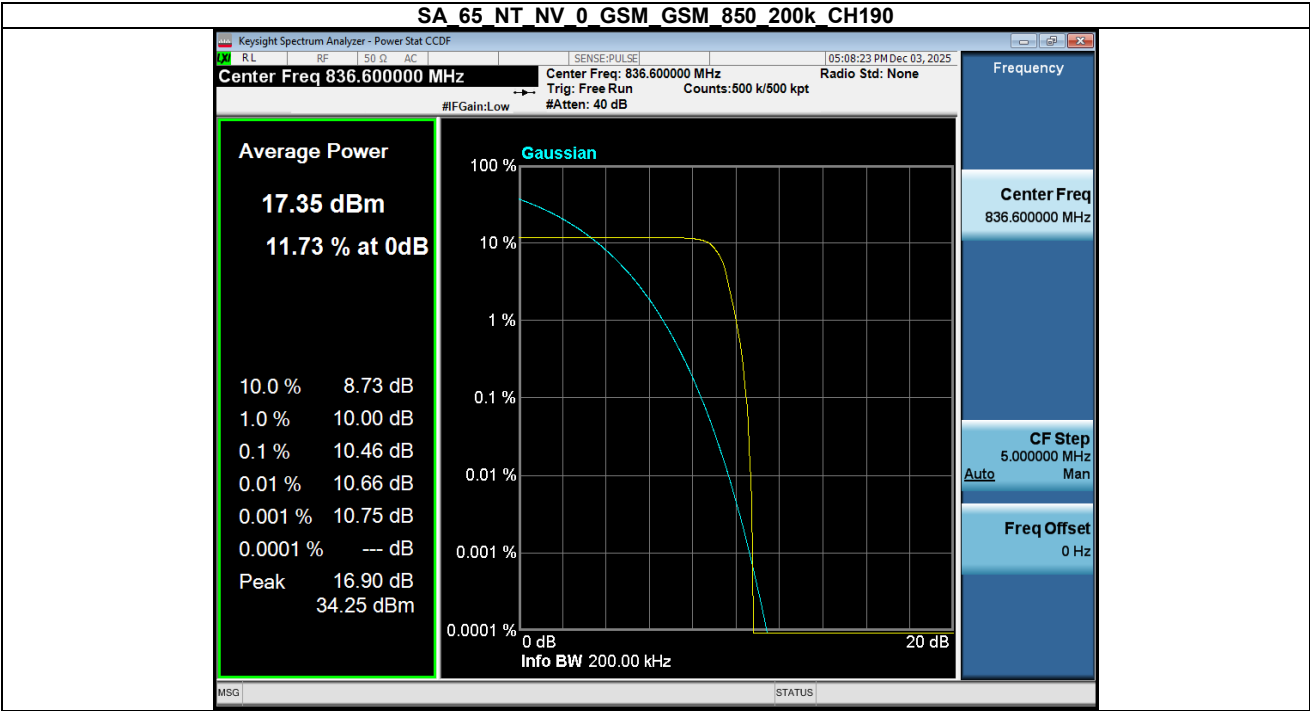
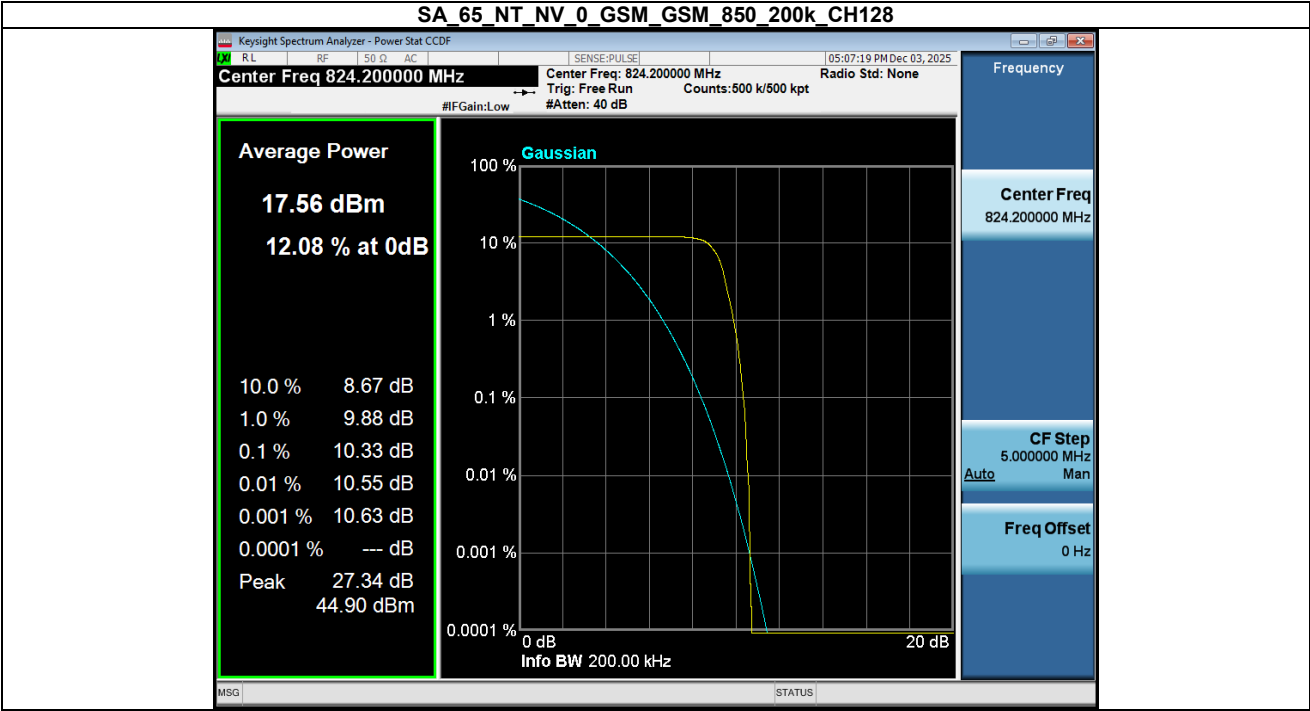


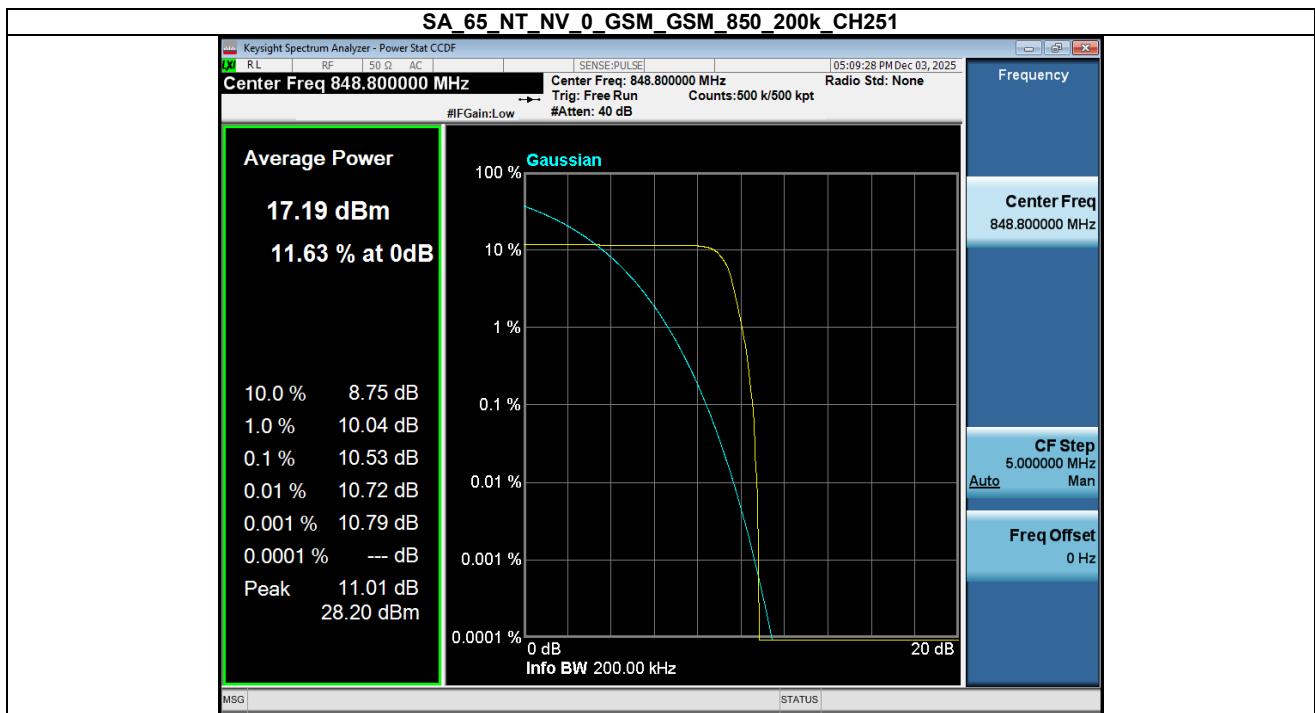
SA 65_NT_NV_0_EGPRS_GSM_850_200k_8PSK_Class12_CH251



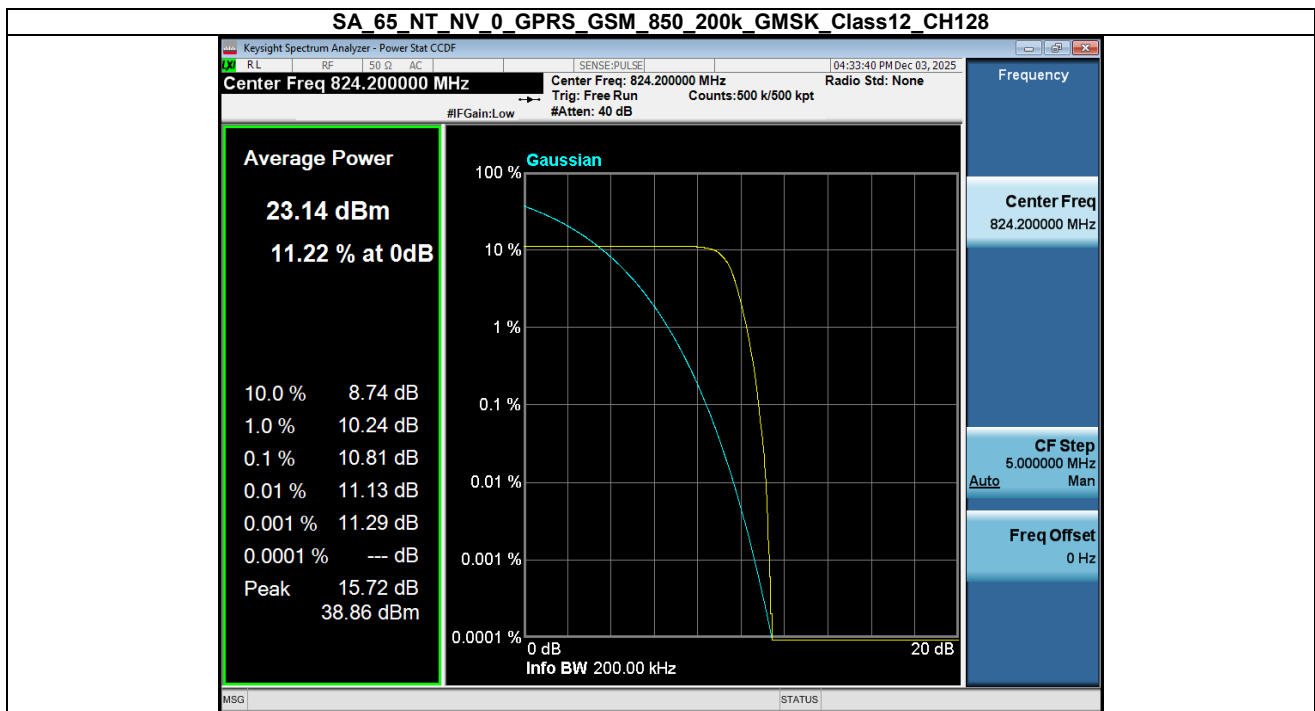
3. Peak to Average Ratio

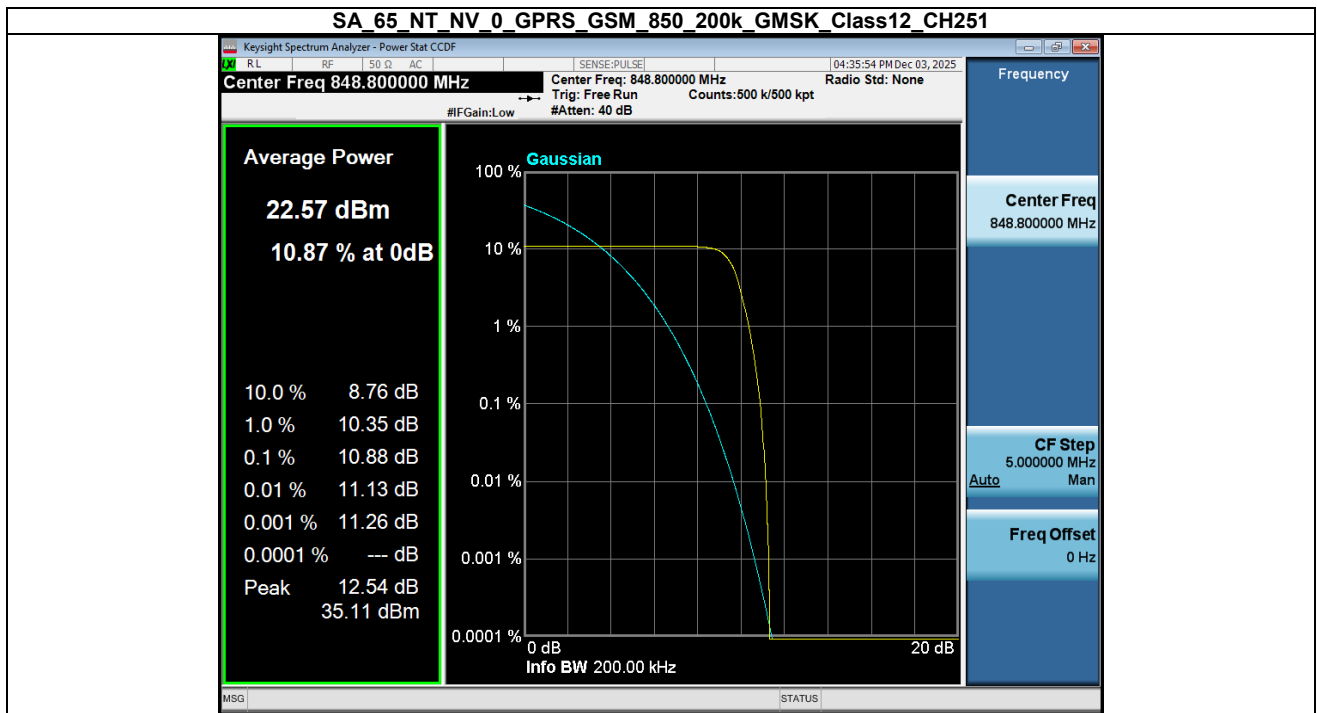
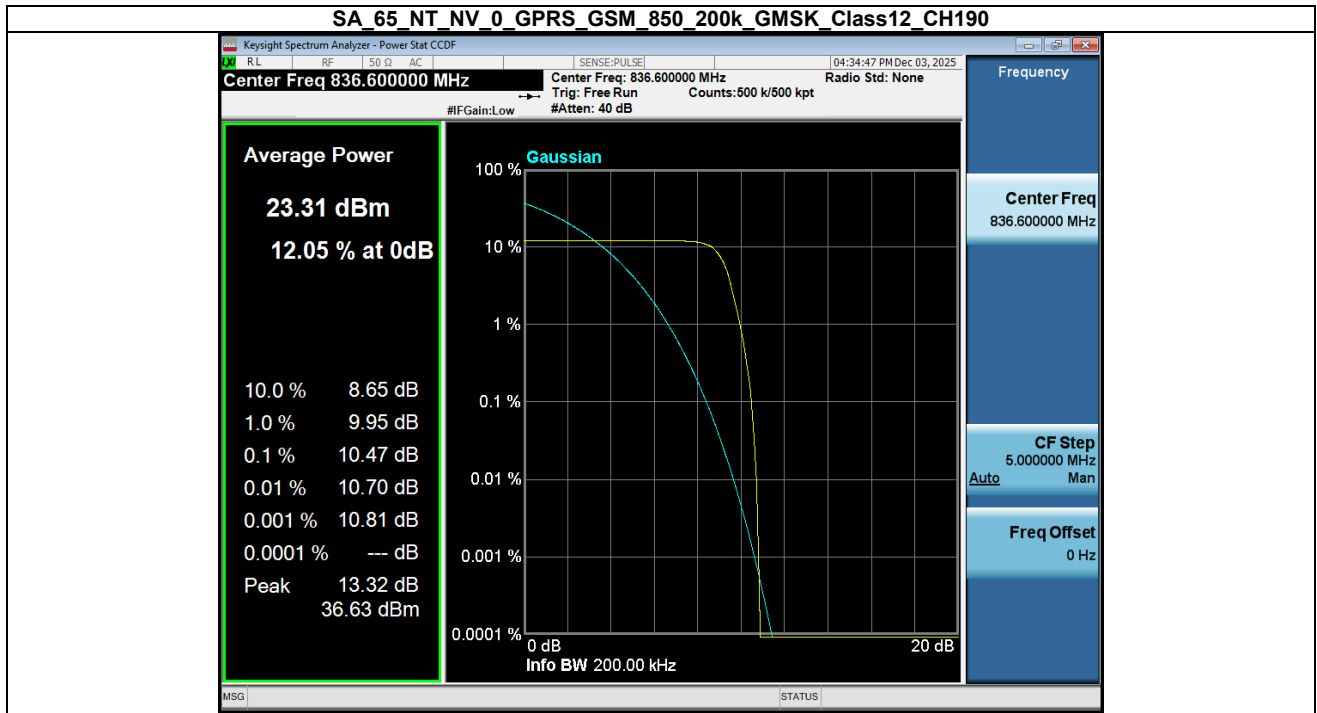
Condition	Band	Modulation	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GSM	GSM 850	824.2	10.33	13.00	Pass
NVNT	GSM	GSM 850	836.6	10.46	13.00	Pass
NVNT	GSM	GSM 850	848.8	10.53	13.00	Pass





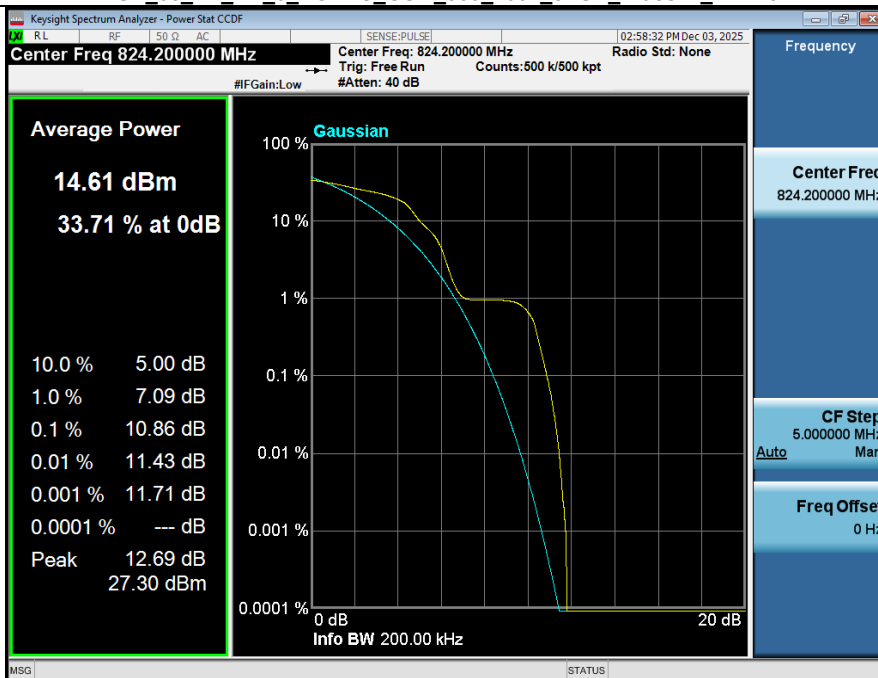
Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	GPRS	GSM 850	GMSK	Class12	824.2	10.81	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.6	10.47	13.00	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.8	10.88	13.00	Pass



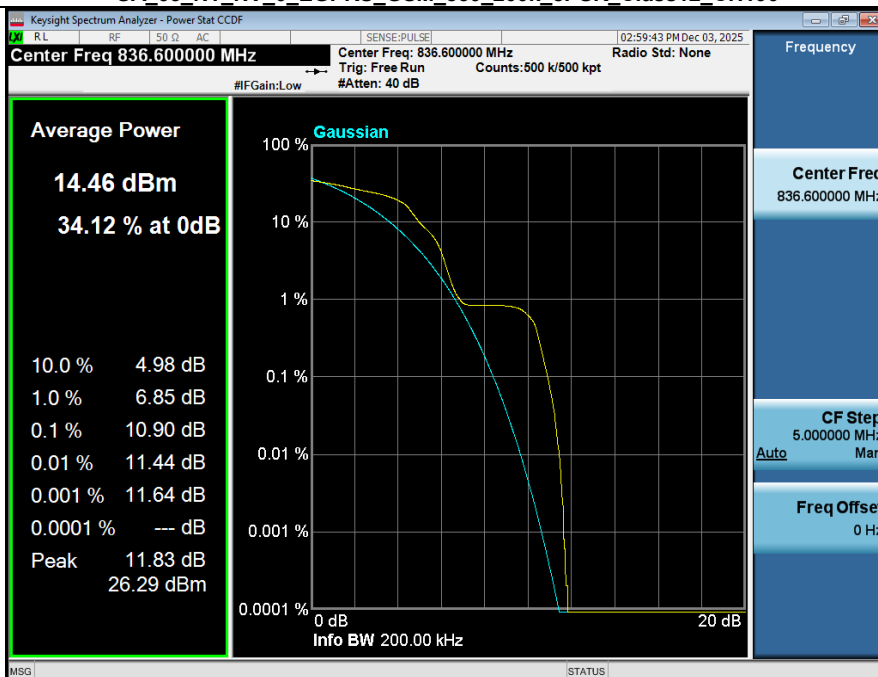


Condition	Services	Band	Modulation	Class Type	Frequency(MHz)	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NVNT	EGPRS	GSM 850	8PSK	Class12	824.2	10.86	13.00	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.6	10.89	13.00	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.8	10.71	13.00	Pass

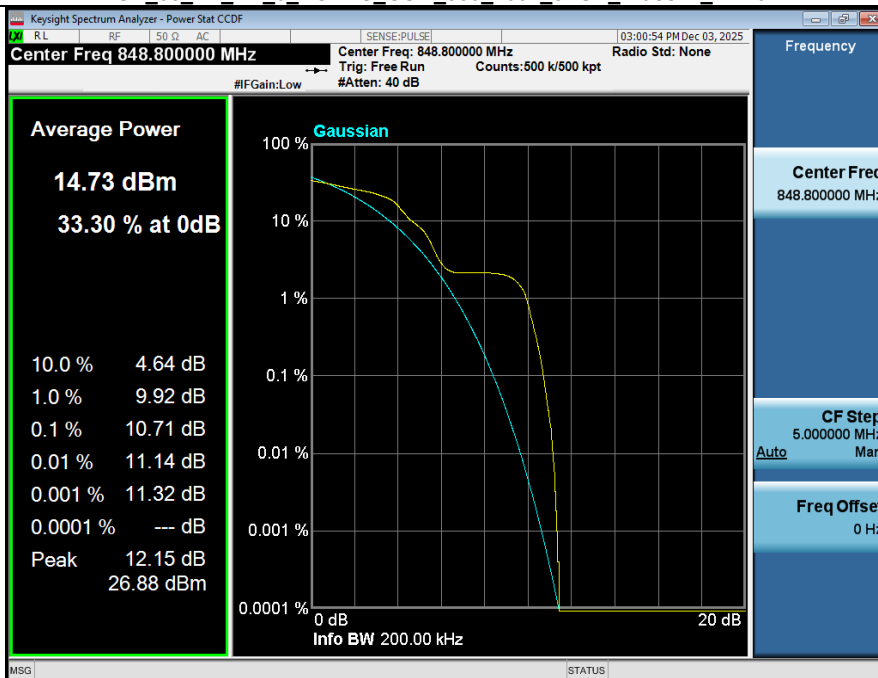
SA 65_NT_NV_0 EGPRS_GSM_850_200k_8PSK_Class12_CH128



SA 65_NT_NV_0 EGPRS_GSM_850_200k_8PSK_Class12_CH190

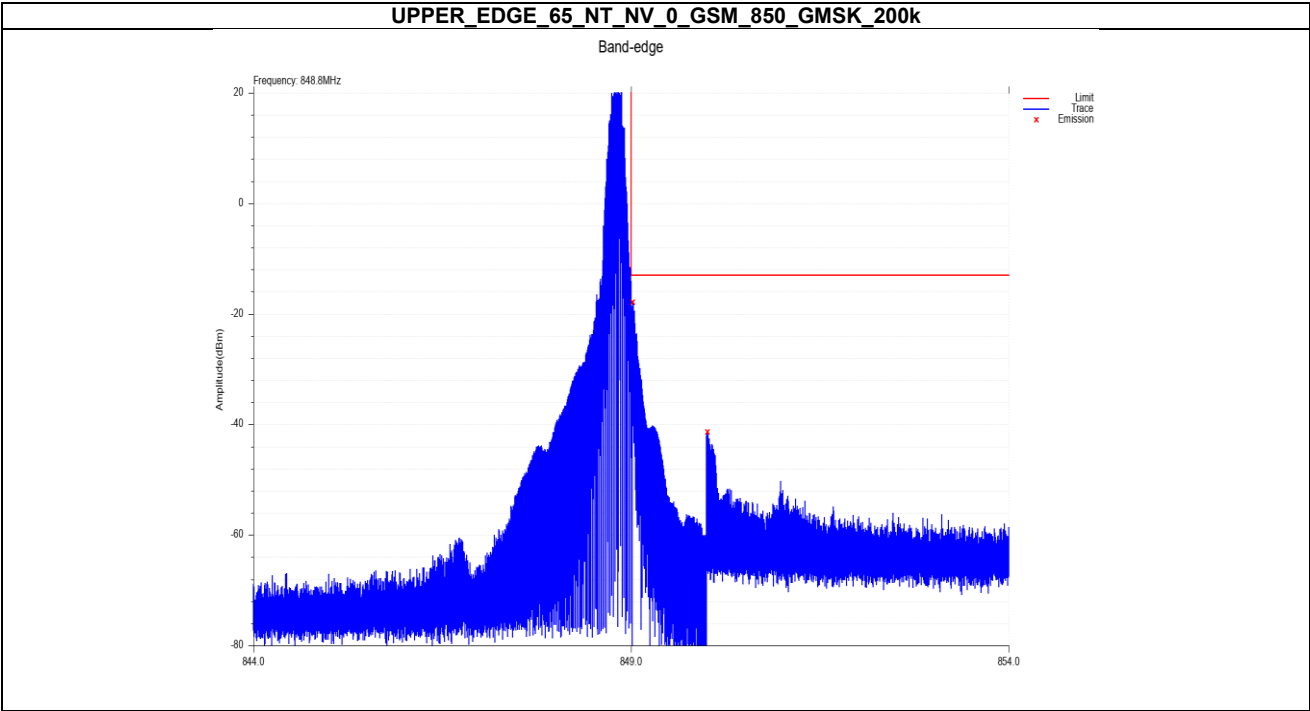
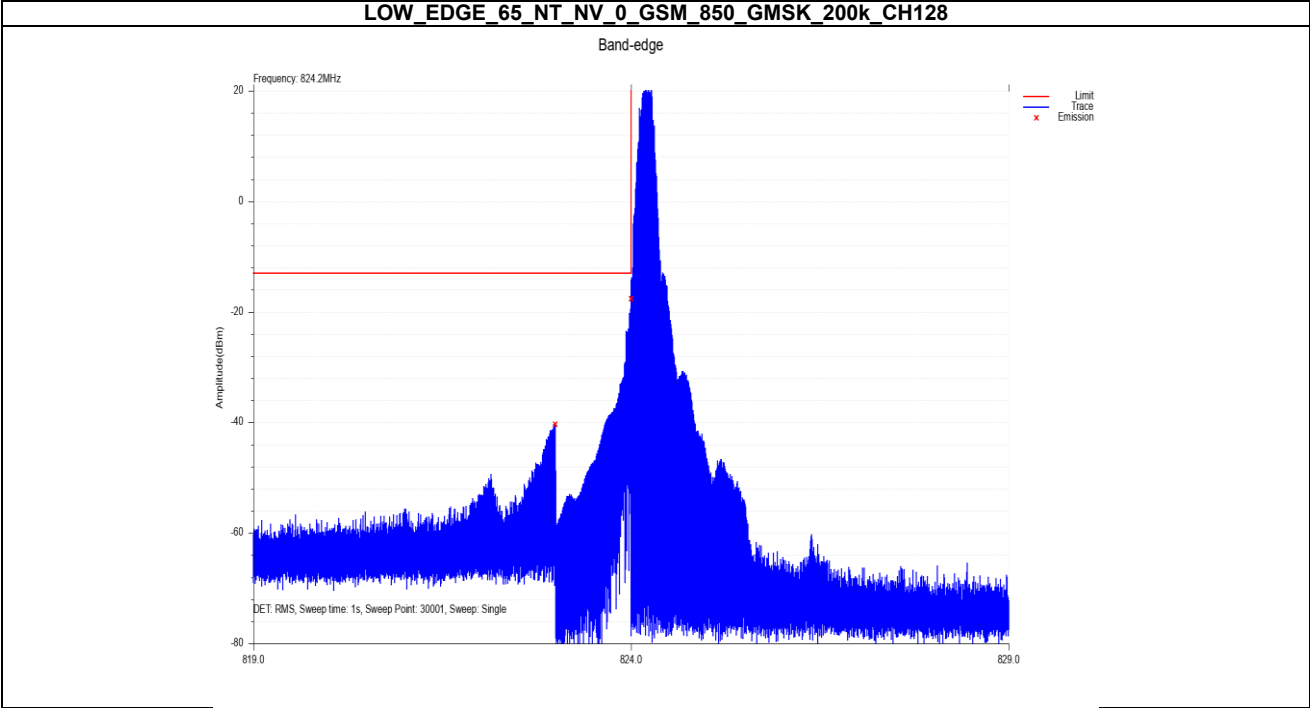


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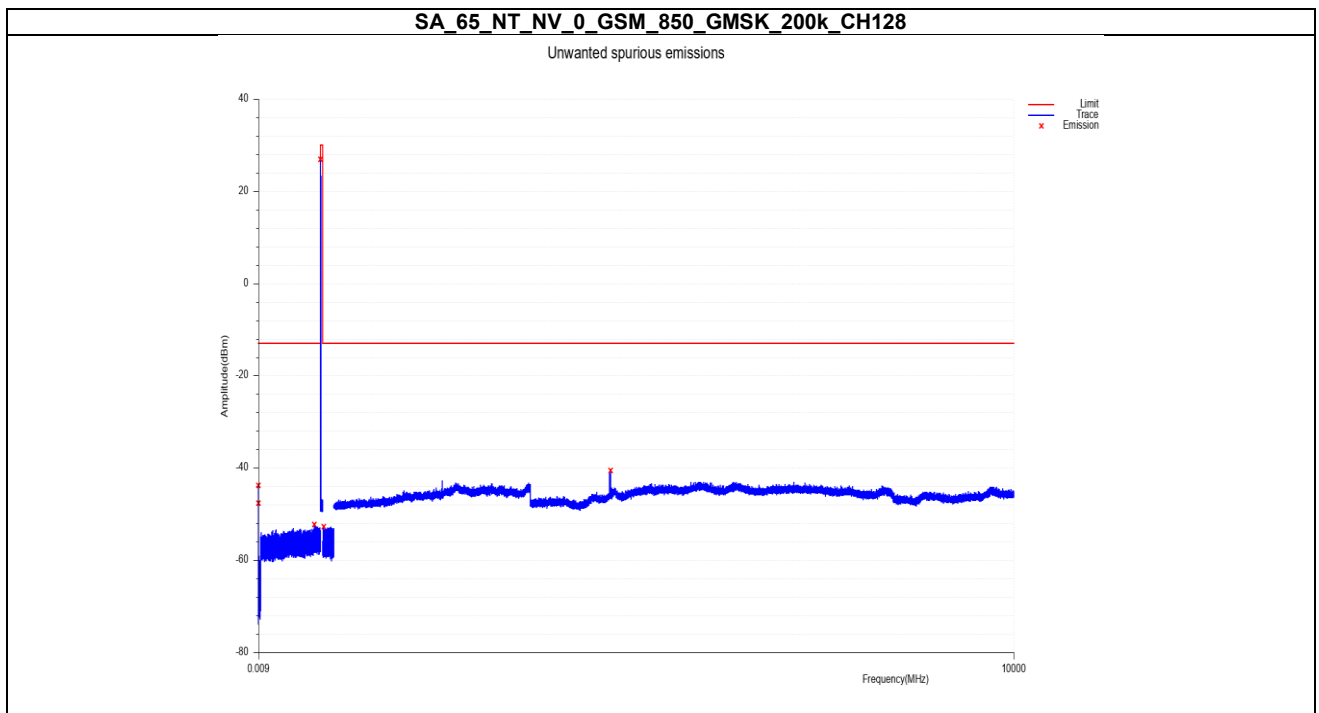


4. Unwanted Spurious Emission

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	822.994	-40.35	-13	Pass
NVNT	GSM 850	GMSK	824.20	3	823.0~824.0	823.998	-17.68	-13	Pass
NVNT	GSM 850	GMSK	848.80	3	849.0~850.0	849.024	-17.88	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	850.0~854.0	850.012	-41.31	-13	Pass

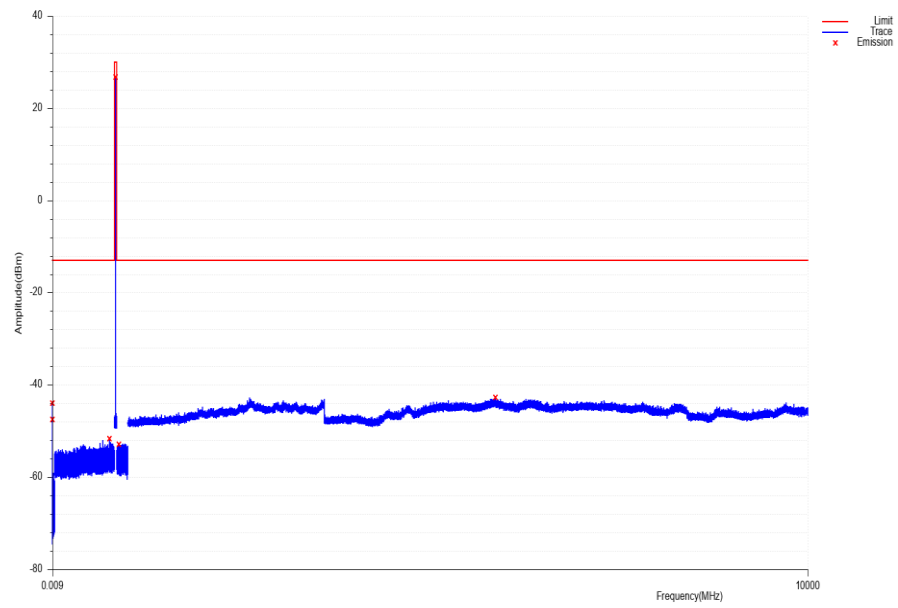


Condition	Band	Modulation	Frequency (MHz)	RBW(kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit(dBm)	Result
NVNT	GSM 850	GMSK	824.20	1	0.009~0.150	0.009	-43.80	-13	Pass
NVNT	GSM 850	GMSK	824.20	10	0.150~30.000	0.158	-47.61	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	30.000~819.000	738.390	-52.30	-13	Pass
NVNT	GSM 850	GMSK	824.20	100	854.000~1000.000	862.882	-52.78	-13	Pass
NVNT	GSM 850	GMSK	824.20	1000	1000.000~10000.000	4660.900	-40.57	-13	Pass
NVNT	GSM 850	GMSK	836.60	1	0.009~0.150	0.010	-43.93	-13	Pass
NVNT	GSM 850	GMSK	836.60	10	0.150~30.000	0.153	-47.56	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	30.000~819.000	753.171	-51.65	-13	Pass
NVNT	GSM 850	GMSK	836.60	100	854.000~1000.000	879.307	-52.86	-13	Pass
NVNT	GSM 850	GMSK	836.60	1000	1000.000~10000.000	5864.500	-42.76	-13	Pass
NVNT	GSM 850	GMSK	848.80	1	0.009~0.150	0.010	-44.22	-13	Pass
NVNT	GSM 850	GMSK	848.80	10	0.150~30.000	0.159	-45.43	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	30.000~819.000	781.680	-52.21	-13	Pass
NVNT	GSM 850	GMSK	848.80	100	854.000~1000.000	927.754	-52.10	-13	Pass
NVNT	GSM 850	GMSK	848.80	1000	1000.000~10000.000	5233.000	-42.77	-13	Pass



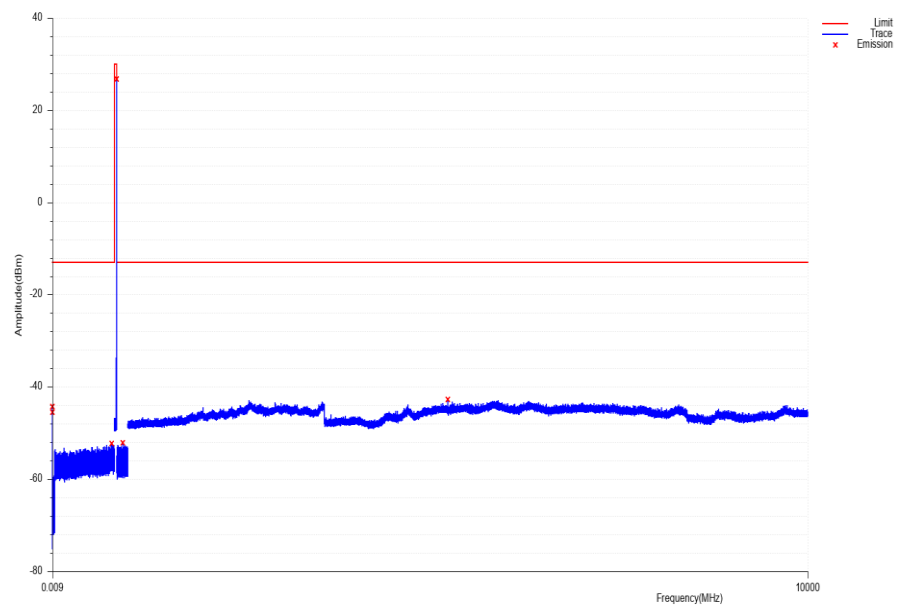
SA_65_NT_NV_0_GSM_850_GMSK_200k_CH190

Unwanted spurious emissions

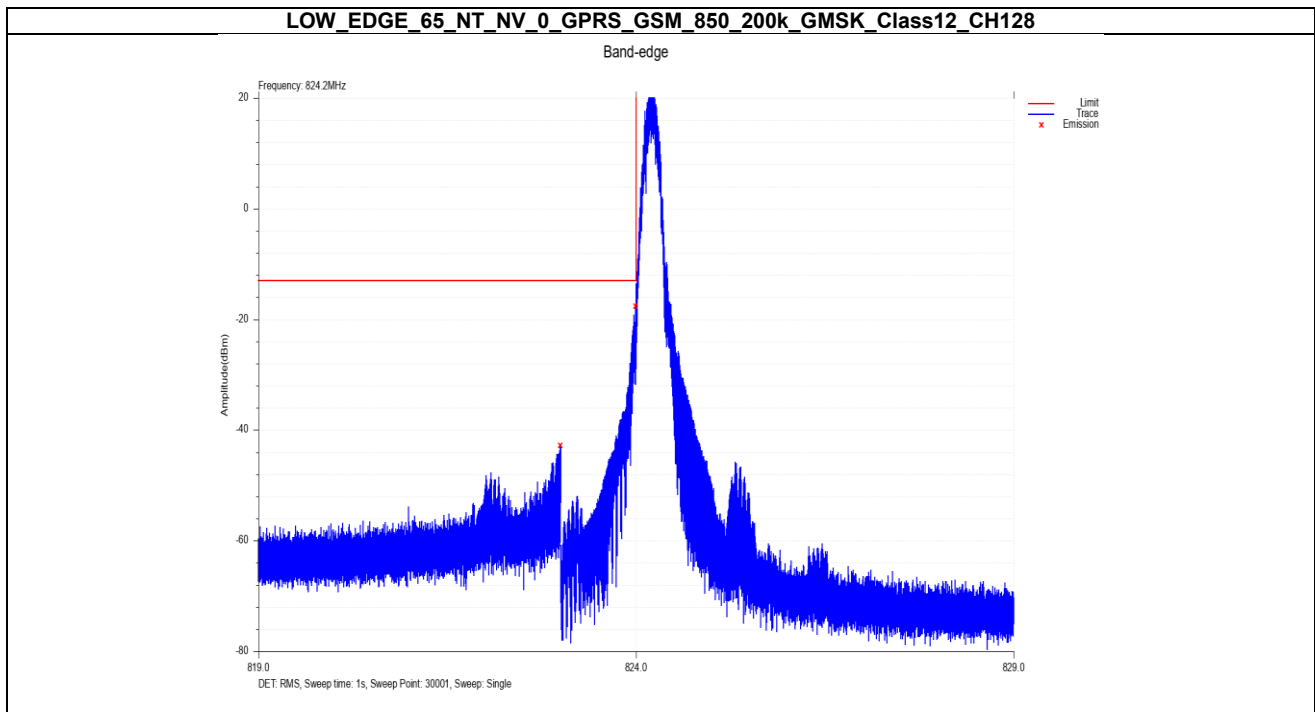


SA_65_NT_NV_0_GSM_850_GMSK_200k_CH251

Unwanted spurious emissions

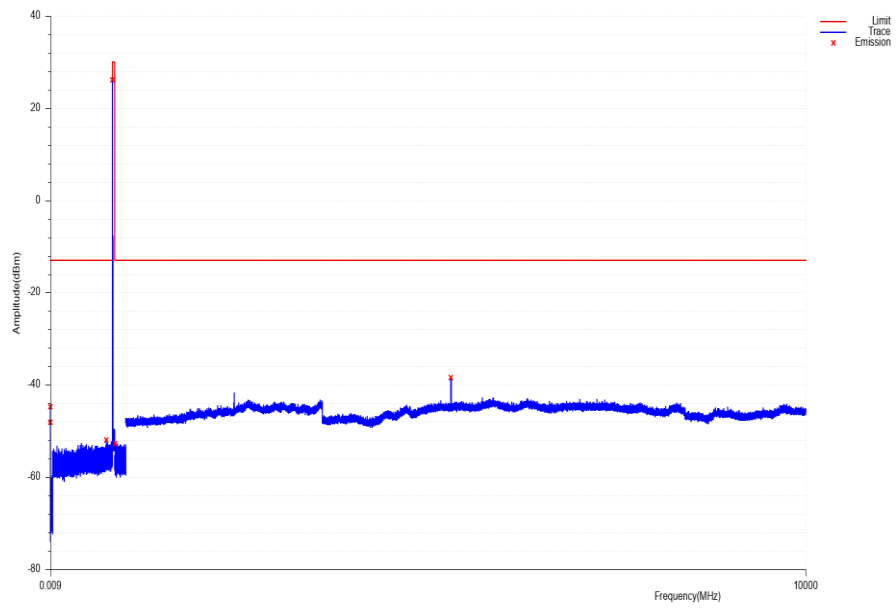


Condition	Services	Band	Modulation	Class Type	Frequency (MHz)	RBW (kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit (dBm)	Result
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	1000	819.0~823.0	822.992	-42.81	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	3	823.0~824.0	823.996	-17.67	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	1	0.009~0.150	0.012	-44.65	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	10	0.150~30.000	0.150	-48.06	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	100	30.000~819.000	742.257	-51.98	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	100	854.000~1000.000	860.896	-52.80	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	824.20	1000	1000.000~10000.000	5303.200	-38.40	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.60	1	0.009~0.150	0.011	-45.06	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.60	10	0.150~30.000	0.563	-40.97	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.60	100	30.000~819.000	560.445	-52.14	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.60	100	854.000~1000.000	913.081	-52.33	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	836.60	1000	1000.000~10000.000	1760.500	-38.84	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	3	849.0~850.0	849.004	-15.11	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	1000	850.0~854.0	850.029	-41.09	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	1	0.009~0.150	0.009	-43.15	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	10	0.150~30.000	0.155	-45.38	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	100	30.000~819.000	714.668	-51.97	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	100	854.000~1000.000	924.572	-51.44	-13	Pass
NVNT	GPRS	GSM 850	GMSK	Class12	848.80	1000	1000.000~10000.000	4653.700	-43.03	-13	Pass



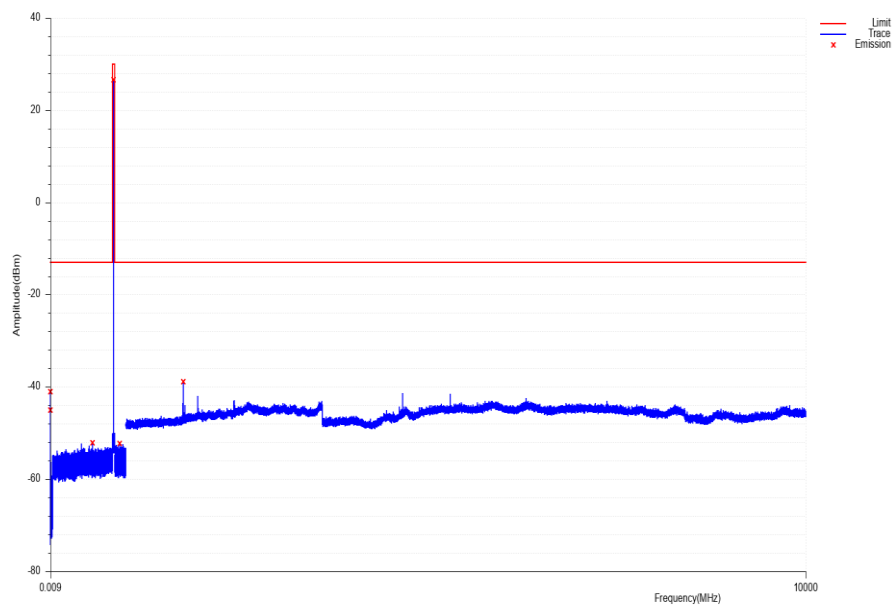
SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH128

Unwanted spurious emissions

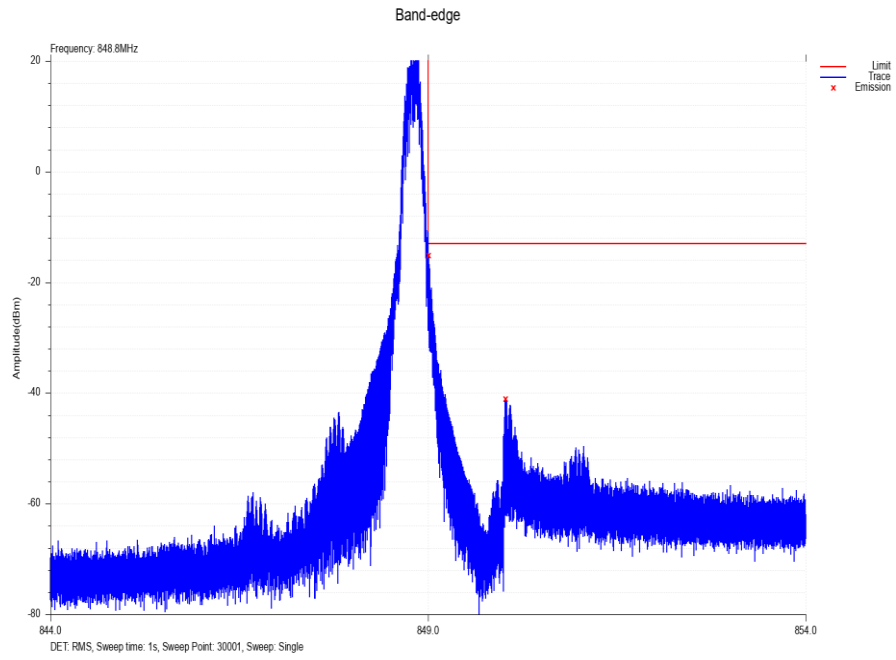


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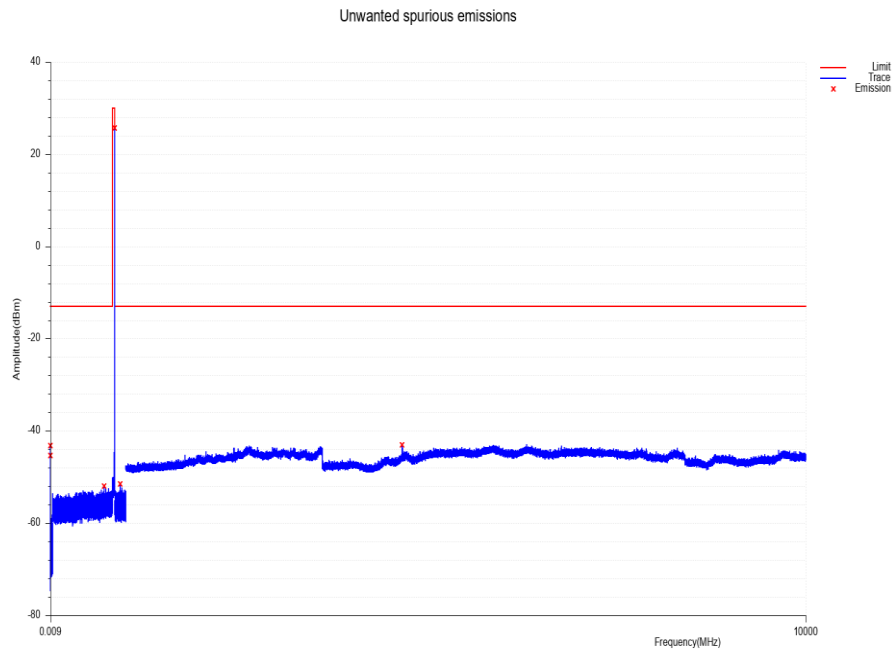
Unwanted spurious emissions



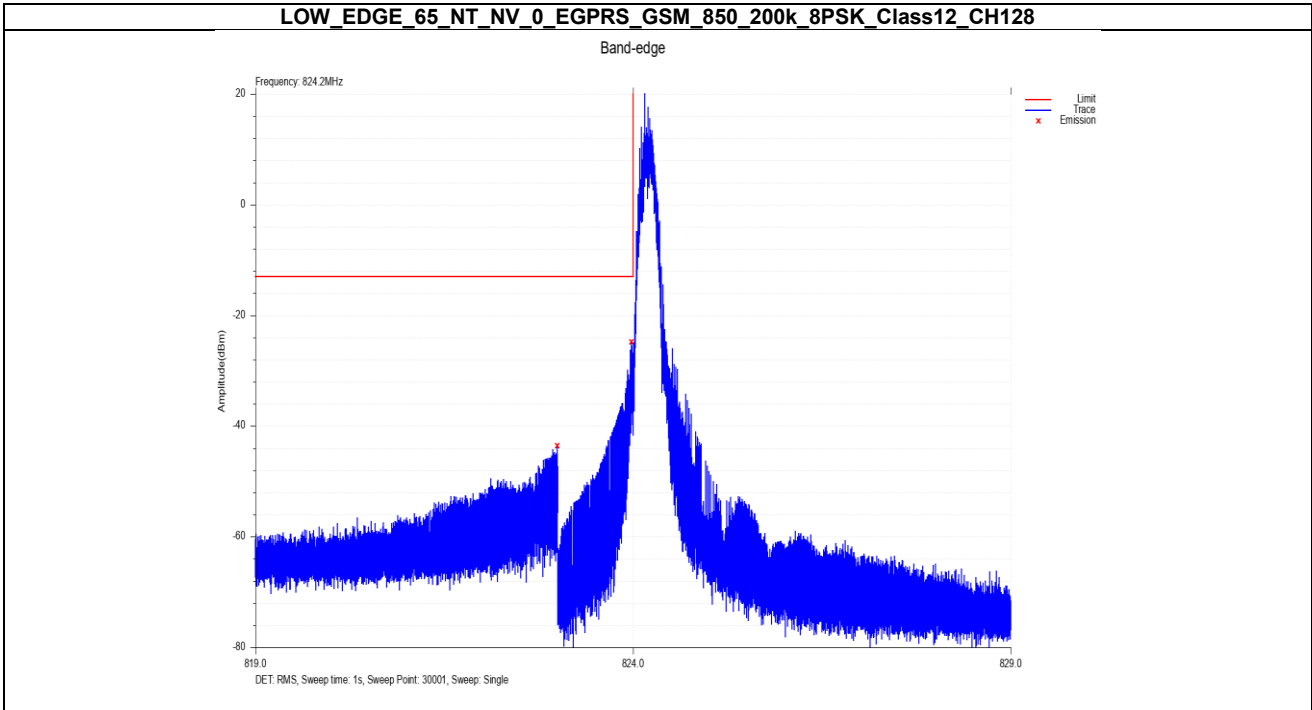
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SA_65_NT_NV_0_GPRS_GSM_850_200k_GMSK_Class12_CH251

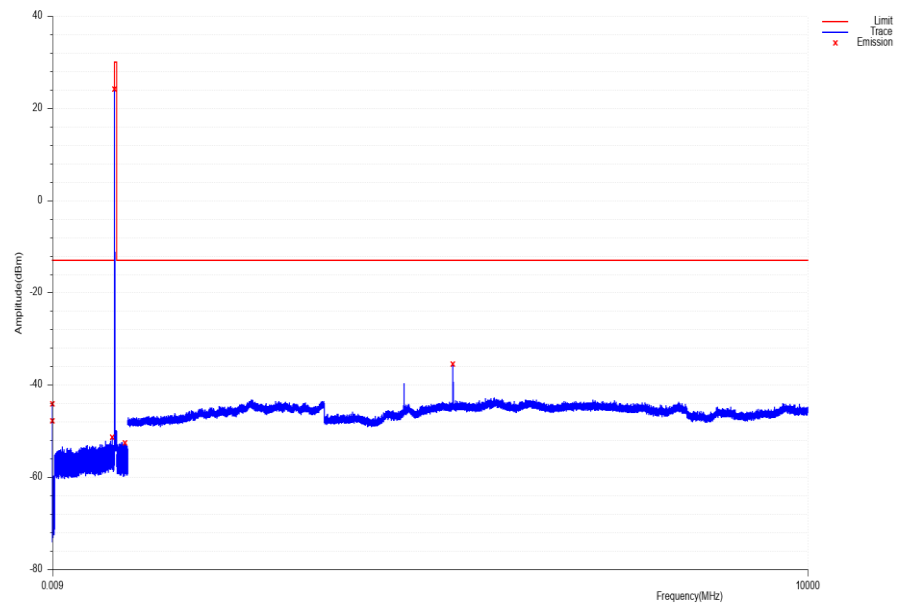


Condition	Services	Band	Modulation	Class Type	Frequency (MHz)	RBW (kHz)	Test Freq Range(MHz)	Spur Freq (MHz)	Spur Level(dBm)	Limit (dBm)	Result
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	1000	819.0~823.0	822.996	-43.60	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	3	823.0~824.0	823.979	-24.80	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	1	0.009~0.150	0.009	-44.15	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	10	0.150~30.000	0.185	-47.76	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	100	30.000~819.000	790.333	-51.29	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	100	854.000~1000.000	959.154	-52.54	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	824.20	1000	1000.000~10000.000	5300.500	-35.42	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.60	1	0.009~0.150	0.009	-44.66	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.60	10	0.150~30.000	0.154	-45.21	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.60	100	30.000~819.000	799.170	-52.09	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.60	100	854.000~1000.000	973.345	-51.66	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	836.60	1000	1000.000~10000.000	5860.300	-42.74	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	3	849.0~850.0	849.005	-17.10	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	1000	850.0~854.0	850.042	-40.96	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	1	0.009~0.150	0.011	-43.52	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	10	0.150~30.000	0.164	-46.64	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	100	30.000~819.000	662.331	-52.09	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	100	854.000~1000.000	878.178	-52.49	-13	Pass
NVNT	EGPRS	GSM 850	8PSK	Class12	848.80	1000	1000.000~10000.000	5962.300	-42.82	-13	Pass



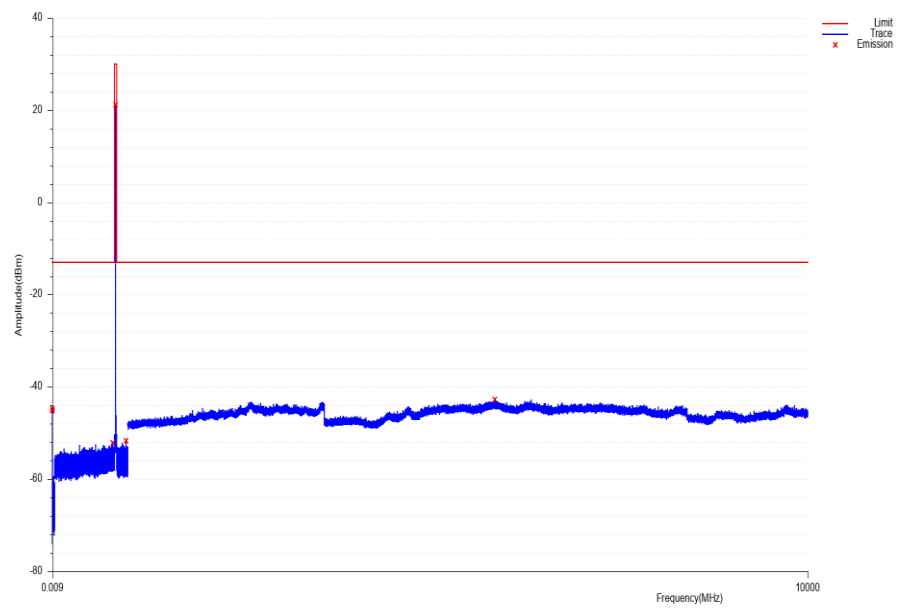
SA_65_NT_NV_0 EGPRS_GSM_850_200k_8PSK_Class12_CH128

Unwanted spurious emissions

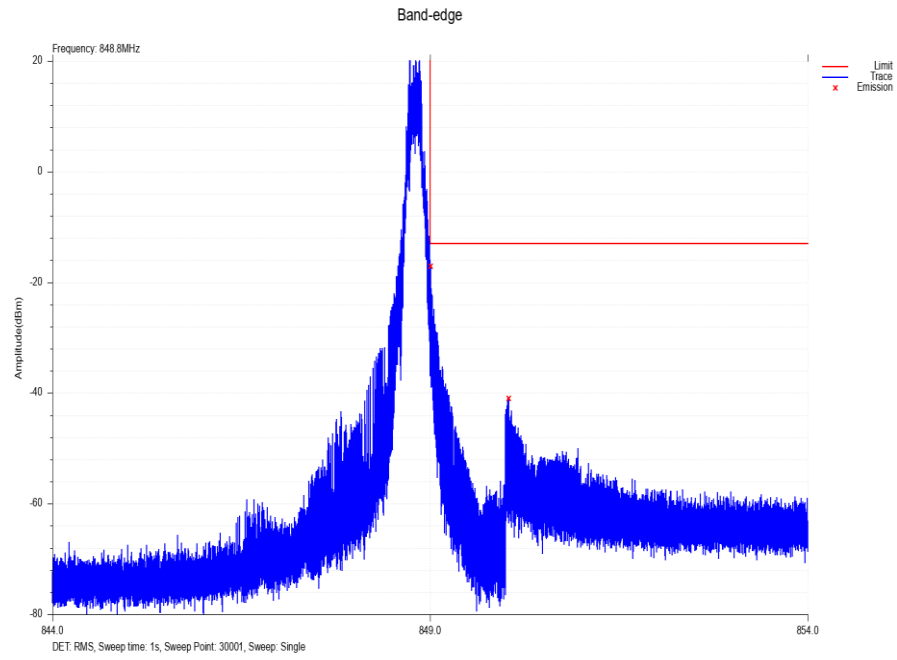


SA_65_NT_NV_0 EGPRS_GSM_850_200k_8PSK_Class12_CH190

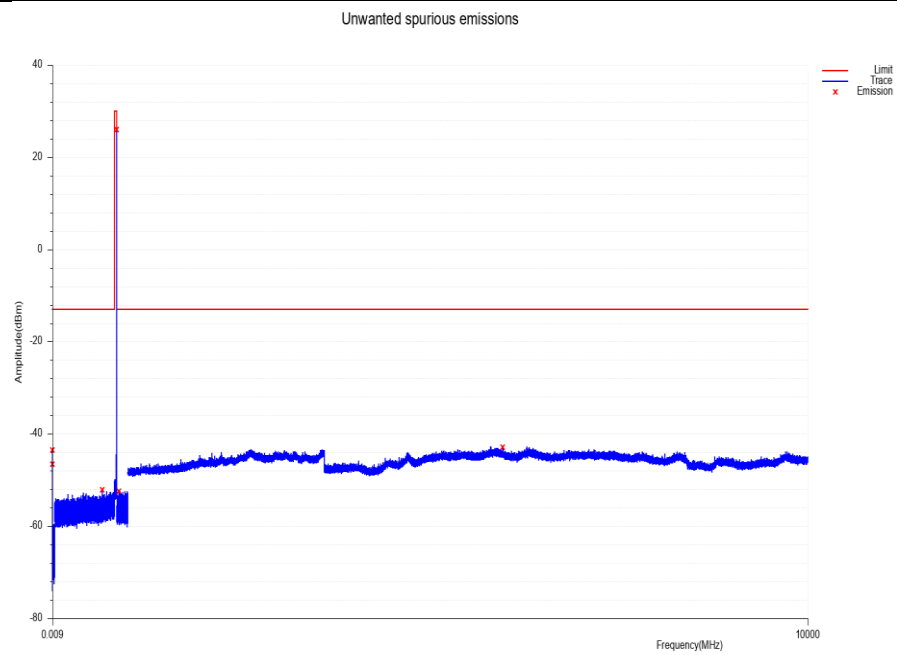
Unwanted spurious emissions



UPPER_EDGE_65_NT_NV_0_EGPRS_GSM_850_200k_8PSK_Class12_CH251



SA_65_NT_NV_0_EGPRS_GSM_850_200k_8PSK_Class12_CH251



5. Frequency Stability

Temperature(C)	Voltage (V)	Band	Modulation	Frequency(MHz)	Frequency Stabilization (ppm)	Limit_Low(ppm)	Limit_Up(ppm)	Result
-30	3.3	GSM 850	GMSK	824.2	-0.03700	-2.50	2.50	Pass
-30	3.3	GSM 850	GMSK	836.6	-0.00874	-2.50	2.50	Pass
-30	3.3	GSM 850	GMSK	848.8	0.04685	-2.50	2.50	Pass
-30	3.7	GSM 850	GMSK	824.2	-0.02108	-2.50	2.50	Pass
-30	3.7	GSM 850	GMSK	836.6	0.00446	-2.50	2.50	Pass
-30	3.7	GSM 850	GMSK	848.8	-0.02573	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	824.2	0.00644	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	836.6	0.02266	-2.50	2.50	Pass
-30	4.2	GSM 850	GMSK	848.8	-0.02564	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	824.2	-0.01856	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	836.6	0.03128	-2.50	2.50	Pass
-20	3.3	GSM 850	GMSK	848.8	-0.02179	-2.50	2.50	Pass
-20	3.7	GSM 850	GMSK	824.2	-0.04073	-2.50	2.50	Pass
-20	3.7	GSM 850	GMSK	836.6	-0.03498	-2.50	2.50	Pass
-20	3.7	GSM 850	GMSK	848.8	-0.03949	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	824.2	0.04094	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	836.6	0.03145	-2.50	2.50	Pass
-20	4.2	GSM 850	GMSK	848.8	0.03203	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	824.2	-0.01636	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	836.6	0.01636	-2.50	2.50	Pass
-10	3.3	GSM 850	GMSK	848.8	0.01513	-2.50	2.50	Pass
-10	3.7	GSM 850	GMSK	824.2	0.03669	-2.50	2.50	Pass
-10	3.7	GSM 850	GMSK	836.6	-0.03452	-2.50	2.50	Pass
-10	3.7	GSM 850	GMSK	848.8	0.01757	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	824.2	-0.03708	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	836.6	-0.02775	-2.50	2.50	Pass
-10	4.2	GSM 850	GMSK	848.8	0.02196	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	824.2	0.03789	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	836.6	0.00232	-2.50	2.50	Pass
0	3.3	GSM 850	GMSK	848.8	0.04172	-2.50	2.50	Pass
0	3.7	GSM 850	GMSK	824.2	0.00720	-2.50	2.50	Pass
0	3.7	GSM 850	GMSK	836.6	-0.00922	-2.50	2.50	Pass
0	3.7	GSM 850	GMSK	848.8	-0.00234	-2.50	2.50	Pass
0	4.2	GSM 850	GMSK	824.2	0.02686	-2.50	2.50	Pass
0	4.2	GSM 850	GMSK	836.6	-0.02339	-2.50	2.50	Pass
0	4.2	GSM 850	GMSK	848.8	-0.01647	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	824.2	-0.03908	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	836.6	-0.04201	-2.50	2.50	Pass
10	3.3	GSM 850	GMSK	848.8	0.03495	-2.50	2.50	Pass
10	3.7	GSM 850	GMSK	824.2	0.03748	-2.50	2.50	Pass
10	3.7	GSM 850	GMSK	836.6	0.02434	-2.50	2.50	Pass
10	3.7	GSM 850	GMSK	848.8	-0.03585	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	824.2	0.01780	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	836.6	-0.01272	-2.50	2.50	Pass
10	4.2	GSM 850	GMSK	848.8	-0.04204	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	824.2	0.01211	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	836.6	-0.00426	-2.50	2.50	Pass
20	3.3	GSM 850	GMSK	848.8	-0.04175	-2.50	2.50	Pass
20	3.7	GSM 850	GMSK	824.2	-0.02873	-2.50	2.50	Pass
20	3.7	GSM 850	GMSK	836.6	-0.00348	-2.50	2.50	Pass
20	3.7	GSM 850	GMSK	848.8	-0.02457	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	824.2	0.01780	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	836.6	-0.03213	-2.50	2.50	Pass
20	4.2	GSM 850	GMSK	848.8	0.04896	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	824.2	-0.03868	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	836.6	-0.00680	-2.50	2.50	Pass
30	3.3	GSM 850	GMSK	848.8	-0.01404	-2.50	2.50	Pass
30	3.7	GSM 850	GMSK	824.2	-0.01819	-2.50	2.50	Pass
30	3.7	GSM 850	GMSK	836.6	-0.01886	-2.50	2.50	Pass
30	3.7	GSM 850	GMSK	848.8	-0.04972	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	824.2	0.02152	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	836.6	-0.00645	-2.50	2.50	Pass
30	4.2	GSM 850	GMSK	848.8	-0.02815	-2.50	2.50	Pass
40	3.3	GSM 850	GMSK	824.2	-0.02036	-2.50	2.50	Pass
40	3.3	GSM 850	GMSK	836.6	0.03693	-2.50	2.50	Pass

40	3.3	GSM 850	GMSK	848.8	-0.03017	-2.50	2.50	Pass
40	3.7	GSM 850	GMSK	824.2	-0.00317	-2.50	2.50	Pass
40	3.7	GSM 850	GMSK	836.6	-0.03352	-2.50	2.50	Pass
40	3.7	GSM 850	GMSK	848.8	-0.02472	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	824.2	0.03393	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	836.6	-0.03947	-2.50	2.50	Pass
40	4.2	GSM 850	GMSK	848.8	-0.03546	-2.50	2.50	Pass
50	3.3	GSM 850	GMSK	824.2	0.03324	-2.50	2.50	Pass
50	3.3	GSM 850	GMSK	836.6	-0.04664	-2.50	2.50	Pass
50	3.3	GSM 850	GMSK	848.8	0.02331	-2.50	2.50	Pass
50	3.7	GSM 850	GMSK	824.2	0.04281	-2.50	2.50	Pass
50	3.7	GSM 850	GMSK	836.6	-0.01159	-2.50	2.50	Pass
50	3.7	GSM 850	GMSK	848.8	-0.01932	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	824.2	0.04626	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	836.6	0.01284	-2.50	2.50	Pass
50	4.2	GSM 850	GMSK	848.8	-0.04390	-2.50	2.50	Pass

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	Class12	824.2	0.04241	-2.50	2.50	Pass
-30	3.3	GPRS	GSM 850	GMSK	Class12	836.6	-0.00309	-2.50	2.50	Pass
-30	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.03433	-2.50	2.50	Pass
-30	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.00031	-2.50	2.50	Pass
-30	3.7	GPRS	GSM 850	GMSK	Class12	836.6	0.04230	-2.50	2.50	Pass
-30	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.00832	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class12	824.2	0.00946	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class12	836.6	0.00598	-2.50	2.50	Pass
-30	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.04059	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class12	824.2	-0.03878	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class12	836.6	-0.04887	-2.50	2.50	Pass
-20	3.3	GPRS	GSM 850	GMSK	Class12	848.8	-0.01820	-2.50	2.50	Pass
-20	3.7	GPRS	GSM 850	GMSK	Class12	824.2	0.03438	-2.50	2.50	Pass
-20	3.7	GPRS	GSM 850	GMSK	Class12	836.6	-0.03763	-2.50	2.50	Pass
-20	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.03830	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class12	824.2	-0.03283	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.02119	-2.50	2.50	Pass
-20	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.01700	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class12	824.2	0.03228	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class12	836.6	-0.04673	-2.50	2.50	Pass
-10	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.03721	-2.50	2.50	Pass
-10	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.01851	-2.50	2.50	Pass
-10	3.7	GPRS	GSM 850	GMSK	Class12	836.6	0.02538	-2.50	2.50	Pass
-10	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.02517	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class12	824.2	-0.03711	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.02576	-2.50	2.50	Pass
-10	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.02069	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class12	824.2	-0.04980	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class12	836.6	0.03513	-2.50	2.50	Pass
0	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.00486	-2.50	2.50	Pass
0	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.03827	-2.50	2.50	Pass
0	3.7	GPRS	GSM 850	GMSK	Class12	836.6	-0.04239	-2.50	2.50	Pass
0	3.7	GPRS	GSM 850	GMSK	Class12	848.8	-0.02983	-2.50	2.50	Pass
0	4.2	GPRS	GSM 850	GMSK	Class12	824.2	0.03497	-2.50	2.50	Pass
0	4.2	GPRS	GSM 850	GMSK	Class12	836.6	0.02645	-2.50	2.50	Pass
0	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.00886	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class12	824.2	-0.02298	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class12	836.6	0.01141	-2.50	2.50	Pass
10	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.04893	-2.50	2.50	Pass
10	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.02605	-2.50	2.50	Pass
10	3.7	GPRS	GSM 850	GMSK	Class12	836.6	-0.01989	-2.50	2.50	Pass
10	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.04300	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class12	824.2	0.01270	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.03618	-2.50	2.50	Pass
10	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.03560	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class12	824.2	0.01679	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class12	836.6	-0.00552	-2.50	2.50	Pass
20	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.01476	-2.50	2.50	Pass
20	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.03307	-2.50	2.50	Pass
20	3.7	GPRS	GSM 850	GMSK	Class12	836.6	-0.03884	-2.50	2.50	Pass
20	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.04026	-2.50	2.50	Pass
20	4.2	GPRS	GSM 850	GMSK	Class12	824.2	-0.00729	-2.50	2.50	Pass
20	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.01643	-2.50	2.50	Pass

20	4.2	GPRS	GSM 850	GMSK	Class12	848.8	0.04940	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class12	824.2	0.03176	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class12	836.6	0.02903	-2.50	2.50	Pass
30	3.3	GPRS	GSM 850	GMSK	Class12	848.8	-0.02049	-2.50	2.50	Pass
30	3.7	GPRS	GSM 850	GMSK	Class12	824.2	0.01793	-2.50	2.50	Pass
30	3.7	GPRS	GSM 850	GMSK	Class12	836.6	0.04907	-2.50	2.50	Pass
30	3.7	GPRS	GSM 850	GMSK	Class12	848.8	-0.02793	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class12	824.2	0.02824	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.01014	-2.50	2.50	Pass
30	4.2	GPRS	GSM 850	GMSK	Class12	848.8	0.01283	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class12	824.2	0.00785	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class12	836.6	-0.00044	-2.50	2.50	Pass
40	3.3	GPRS	GSM 850	GMSK	Class12	848.8	0.01410	-2.50	2.50	Pass
40	3.7	GPRS	GSM 850	GMSK	Class12	824.2	-0.01222	-2.50	2.50	Pass
40	3.7	GPRS	GSM 850	GMSK	Class12	836.6	0.03580	-2.50	2.50	Pass
40	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.02072	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class12	824.2	0.00574	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.02059	-2.50	2.50	Pass
40	4.2	GPRS	GSM 850	GMSK	Class12	848.8	-0.04886	-2.50	2.50	Pass
50	3.3	GPRS	GSM 850	GMSK	Class12	824.2	-0.02847	-2.50	2.50	Pass
50	3.3	GPRS	GSM 850	GMSK	Class12	836.6	0.00278	-2.50	2.50	Pass
50	3.3	GPRS	GSM 850	GMSK	Class12	848.8	-0.03321	-2.50	2.50	Pass
50	3.7	GPRS	GSM 850	GMSK	Class12	824.2	0.00476	-2.50	2.50	Pass
50	3.7	GPRS	GSM 850	GMSK	Class12	836.6	-0.02626	-2.50	2.50	Pass
50	3.7	GPRS	GSM 850	GMSK	Class12	848.8	0.02353	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class12	824.2	-0.04990	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class12	836.6	-0.01374	-2.50	2.50	Pass
50	4.2	GPRS	GSM 850	GMSK	Class12	848.8	0.02897	-2.50	2.50	Pass

Temperature (C)	Voltage(V)	Services	Band	Modulation	Class Type	Frequency (MHz)	Frequency Stabilization (ppm)	Limit_Low (ppm)	Limit_Up (ppm)	Result
-30	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	0.00568	-2.50	2.50	Pass
-30	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	-0.02323	-2.50	2.50	Pass
-30	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	0.02436	-2.50	2.50	Pass
-30	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.01033	-2.50	2.50	Pass
-30	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.00314	-2.50	2.50	Pass
-30	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	0.00366	-2.50	2.50	Pass
-30	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.03542	-2.50	2.50	Pass
-30	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	0.03873	-2.50	2.50	Pass
-30	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.00133	-2.50	2.50	Pass
-20	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	0.00819	-2.50	2.50	Pass
-20	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	0.03455	-2.50	2.50	Pass
-20	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	0.00535	-2.50	2.50	Pass
-20	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.00928	-2.50	2.50	Pass
-20	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.02926	-2.50	2.50	Pass
-20	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	0.03075	-2.50	2.50	Pass
-20	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.02013	-2.50	2.50	Pass
-20	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.02999	-2.50	2.50	Pass
-20	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	0.00408	-2.50	2.50	Pass
-10	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	-0.01819	-2.50	2.50	Pass
-10	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	-0.03519	-2.50	2.50	Pass
-10	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	-0.00109	-2.50	2.50	Pass
-10	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.00384	-2.50	2.50	Pass
-10	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	0.04768	-2.50	2.50	Pass
-10	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.04889	-2.50	2.50	Pass
-10	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	-0.04652	-2.50	2.50	Pass
-10	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.00813	-2.50	2.50	Pass
-10	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	0.00836	-2.50	2.50	Pass
0	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	-0.01823	-2.50	2.50	Pass
0	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	0.03775	-2.50	2.50	Pass
0	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	-0.00984	-2.50	2.50	Pass
0	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.04385	-2.50	2.50	Pass
0	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.00102	-2.50	2.50	Pass
0	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.04416	-2.50	2.50	Pass
0	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.00698	-2.50	2.50	Pass
0	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.03628	-2.50	2.50	Pass
0	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.00438	-2.50	2.50	Pass
10	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	0.03669	-2.50	2.50	Pass
10	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	0.02853	-2.50	2.50	Pass
10	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	0.02509	-2.50	2.50	Pass
10	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.00913	-2.50	2.50	Pass
10	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	0.02334	-2.50	2.50	Pass

10	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.01861	-2.50	2.50	Pass
10	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	-0.02867	-2.50	2.50	Pass
10	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	0.04798	-2.50	2.50	Pass
10	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.03175	-2.50	2.50	Pass
20	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	-0.02064	-2.50	2.50	Pass
20	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	0.03210	-2.50	2.50	Pass
20	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	0.03749	-2.50	2.50	Pass
20	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	0.00126	-2.50	2.50	Pass
20	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.03321	-2.50	2.50	Pass
20	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.01300	-2.50	2.50	Pass
20	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.00688	-2.50	2.50	Pass
20	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.01727	-2.50	2.50	Pass
20	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.03539	-2.50	2.50	Pass
30	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	-0.01693	-2.50	2.50	Pass
30	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	-0.02200	-2.50	2.50	Pass
30	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	-0.04088	-2.50	2.50	Pass
30	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.03199	-2.50	2.50	Pass
30	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.03247	-2.50	2.50	Pass
30	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.04271	-2.50	2.50	Pass
30	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.02281	-2.50	2.50	Pass
30	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.00260	-2.50	2.50	Pass
30	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.00150	-2.50	2.50	Pass
40	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	0.00587	-2.50	2.50	Pass
40	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	-0.01557	-2.50	2.50	Pass
40	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	0.04706	-2.50	2.50	Pass
40	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	-0.02719	-2.50	2.50	Pass
40	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	0.04875	-2.50	2.50	Pass
40	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.01916	-2.50	2.50	Pass
40	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	-0.01337	-2.50	2.50	Pass
40	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	0.02903	-2.50	2.50	Pass
40	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.03080	-2.50	2.50	Pass
50	3.3	EGPRS	GSM 850	8PSK	Class12	824.2	-0.00155	-2.50	2.50	Pass
50	3.3	EGPRS	GSM 850	8PSK	Class12	836.6	-0.03320	-2.50	2.50	Pass
50	3.3	EGPRS	GSM 850	8PSK	Class12	848.8	-0.01535	-2.50	2.50	Pass
50	3.7	EGPRS	GSM 850	8PSK	Class12	824.2	0.04727	-2.50	2.50	Pass
50	3.7	EGPRS	GSM 850	8PSK	Class12	836.6	-0.01200	-2.50	2.50	Pass
50	3.7	EGPRS	GSM 850	8PSK	Class12	848.8	-0.02714	-2.50	2.50	Pass
50	4.2	EGPRS	GSM 850	8PSK	Class12	824.2	0.03662	-2.50	2.50	Pass
50	4.2	EGPRS	GSM 850	8PSK	Class12	836.6	-0.00221	-2.50	2.50	Pass
50	4.2	EGPRS	GSM 850	8PSK	Class12	848.8	-0.01024	-2.50	2.50	Pass