

Appendix H_GSM

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01 Conducted output power (ERP)

Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GSM850	128	824.2	31.75	0.8	30.4	1096.48	7000	PASS
NVNT	GSM850	190	836.6	31.65	0.8	30.3	1071.52	7000	PASS
NVNT	GSM850	251	848.8	31.37	0.8	30.02	1004.62	7000	PASS

01 Conducted output power (EIRP)

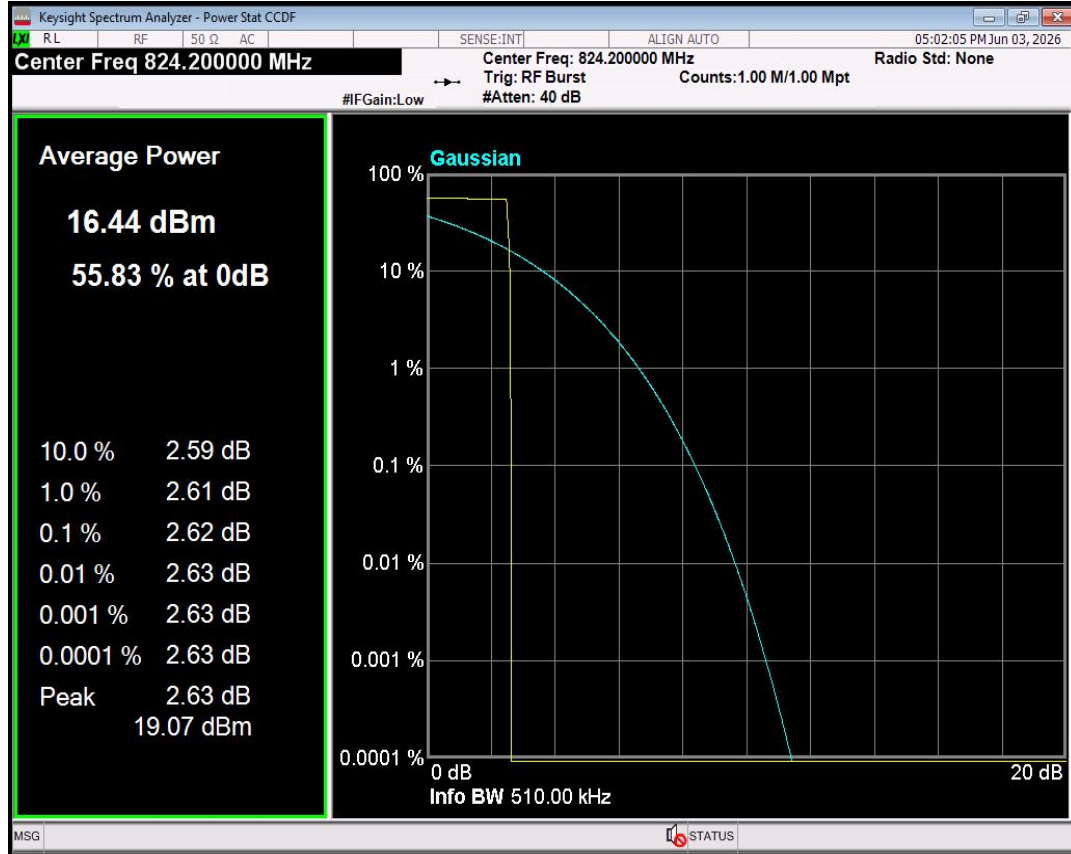
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GSM1900	512	1850.2	28.69	0	28.69	739.61	2000	PASS
NVNT	GSM1900	661	1880	28.78	0	28.78	755.09	2000	PASS
NVNT	GSM1900	810	1909.8	28.8	0	28.8	758.58	2000	PASS

02 Frequency stability

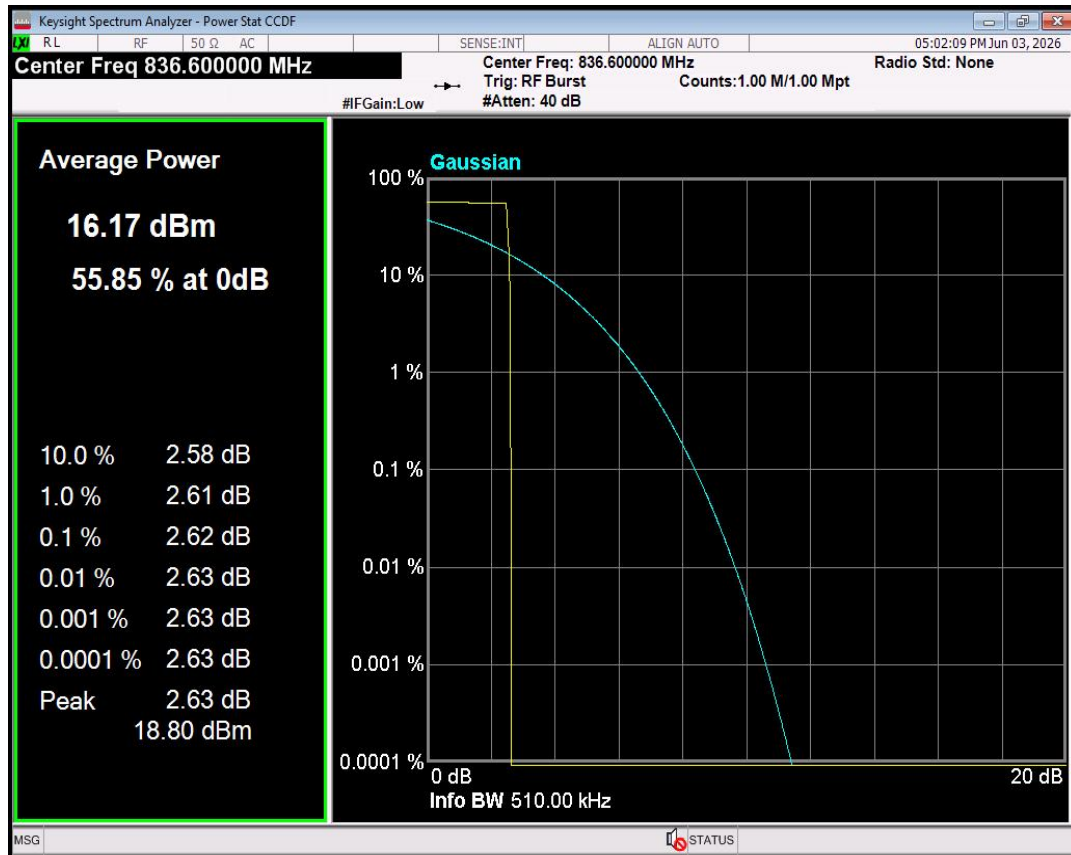
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GSM850	128	824.2	4.68	0.006	-2.5	2.5	PASS
NVNT	GSM850	190	836.6	5.29	0.006	-2.5	2.5	PASS
NVNT	GSM850	251	848.8	6.88	0.008	-2.5	2.5	PASS
NVNT	GSM1900	512	1850.2	-2.68	-0.001	-2.5	2.5	PASS
NVNT	GSM1900	661	1880	-5.36	-0.003	-2.5	2.5	PASS
NVNT	GSM1900	810	1909.8	-0.74	0.000	-2.5	2.5	PASS
LVLT	GSM850	128	824.2	1.55	0.002	-2.5	2.5	PASS
LVLT	GSM850	190	836.6	5.71	0.007	-2.5	2.5	PASS
LVLT	GSM850	251	848.8	2.65	0.003	-2.5	2.5	PASS
LVLT	GSM1900	512	1850.2	14.43	0.008	-2.5	2.5	PASS
LVLT	GSM1900	661	1880	5.13	0.003	-2.5	2.5	PASS
LVLT	GSM1900	810	1909.8	11.27	0.006	-2.5	2.5	PASS
LVHT	GSM850	128	824.2	3.94	0.005	-2.5	2.5	PASS
LVHT	GSM850	190	836.6	3.20	0.004	-2.5	2.5	PASS
LVHT	GSM850	251	848.8	8.14	0.010	-2.5	2.5	PASS
LVHT	GSM1900	512	1850.2	14.46	0.008	-2.5	2.5	PASS
LVHT	GSM1900	661	1880	9.30	0.005	-2.5	2.5	PASS
LVHT	GSM1900	810	1909.8	12.43	0.007	-2.5	2.5	PASS
HVLT	GSM850	128	824.2	5.07	0.006	-2.5	2.5	PASS
HVLT	GSM850	190	836.6	8.30	0.010	-2.5	2.5	PASS
HVLT	GSM850	251	848.8	8.78	0.010	-2.5	2.5	PASS
HVLT	GSM1900	512	1850.2	12.37	0.007	-2.5	2.5	PASS
HVLT	GSM1900	661	1880	1.78	0.001	-2.5	2.5	PASS
HVLT	GSM1900	810	1909.8	8.10	0.004	-2.5	2.5	PASS
HVHT	GSM850	128	824.2	7.88	0.010	-2.5	2.5	PASS
HVHT	GSM850	190	836.6	8.56	0.010	-2.5	2.5	PASS
HVHT	GSM850	251	848.8	10.40	0.012	-2.5	2.5	PASS
HVHT	GSM1900	512	1850.2	8.27	0.004	-2.5	2.5	PASS
HVHT	GSM1900	661	1880	2.65	0.001	-2.5	2.5	PASS
HVHT	GSM1900	810	1909.8	4.88	0.003	-2.5	2.5	PASS

03 Peak-to-Average Ratio

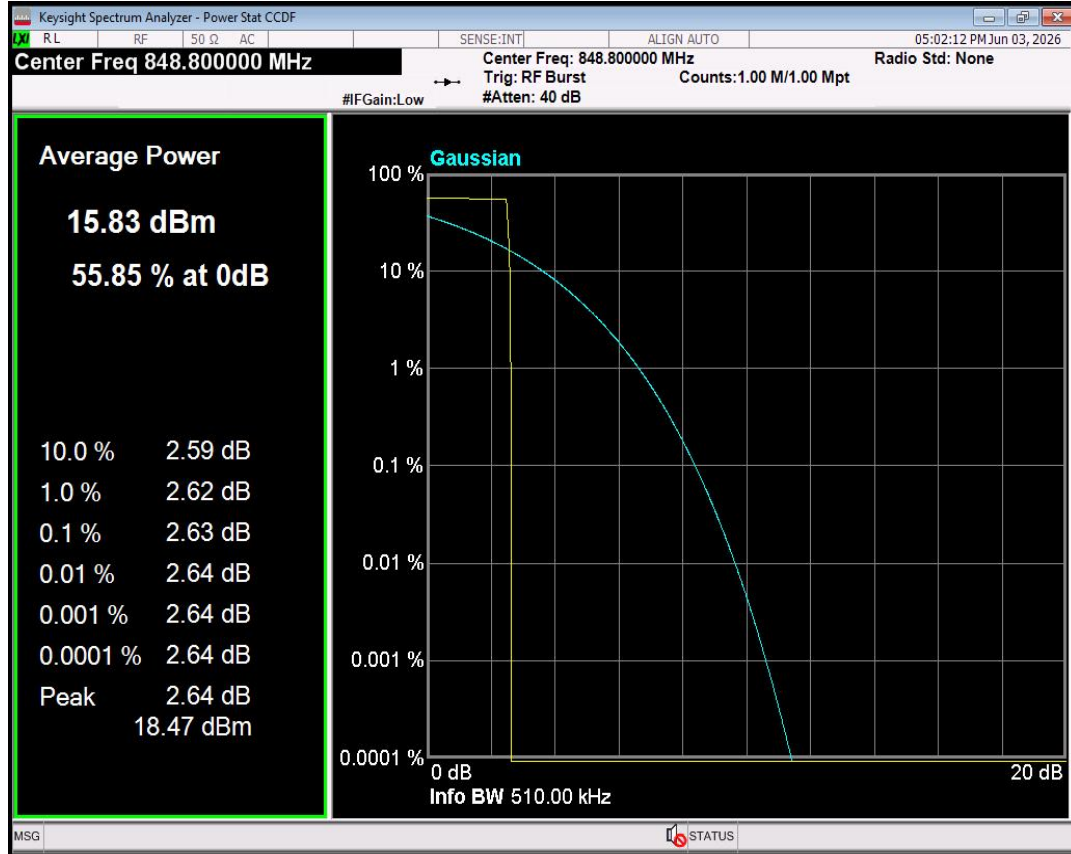
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Result (dB)</i>	<i>high Limit (dB)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	2.62	13	PASS
NVNT	GSM850	190	836.6	2.62	13	PASS
NVNT	GSM850	251	848.8	2.63	13	PASS
NVNT	GSM1900	512	1850.2	2.65	13	PASS
NVNT	GSM1900	661	1880	2.65	13	PASS
NVNT	GSM1900	810	1909.8	2.68	13	PASS



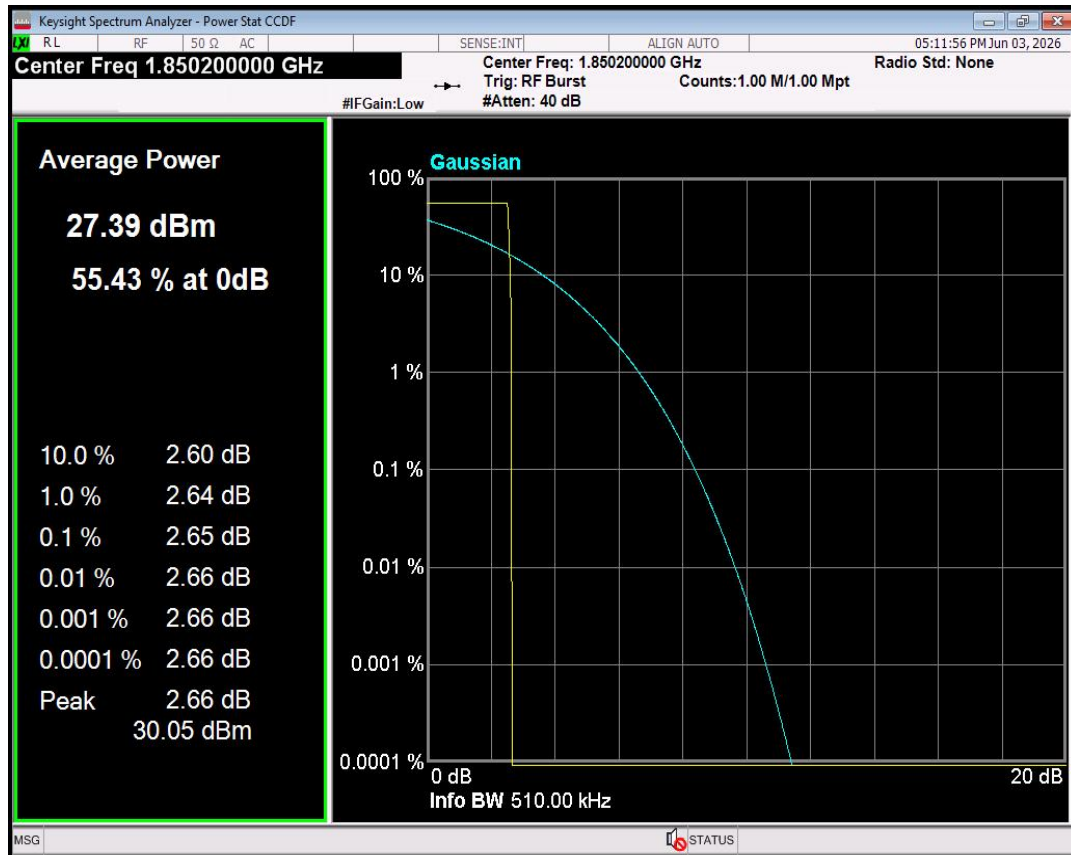
GSM850 Channel=128 NVNT



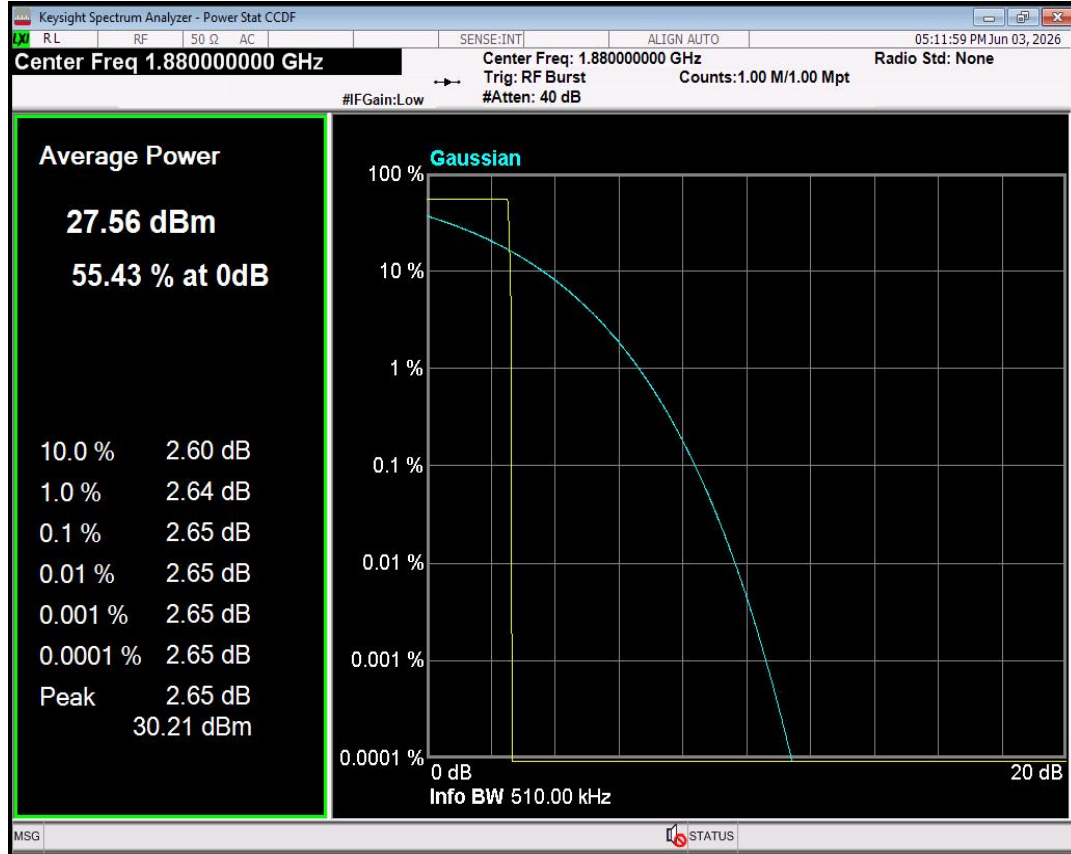
GSM850 Channel=190 NVNT



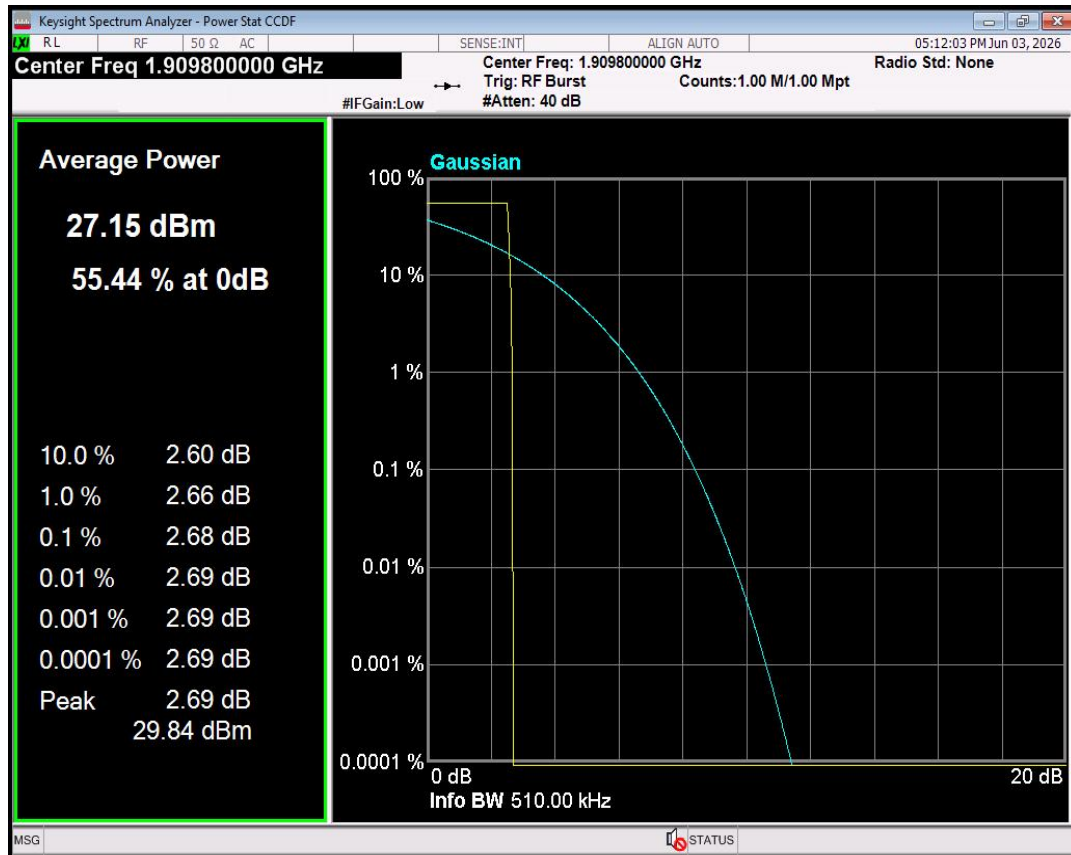
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



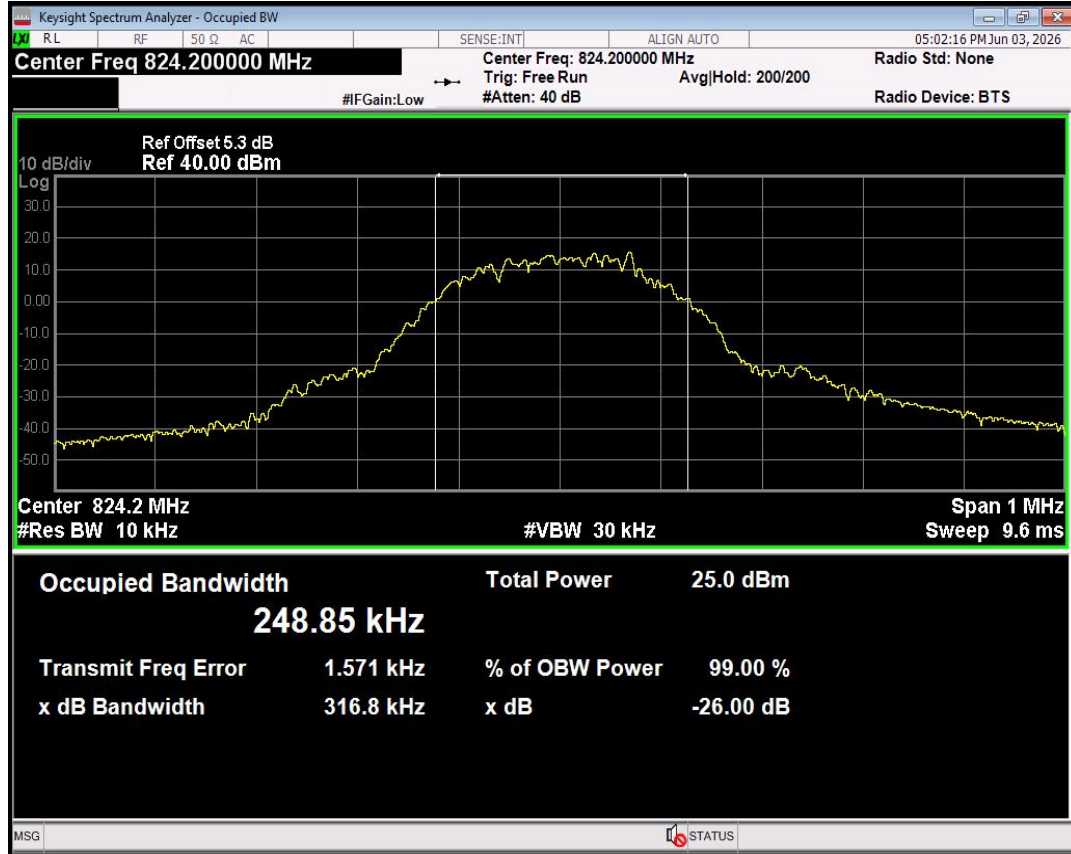
GSM1900 Channel=661 NVNT



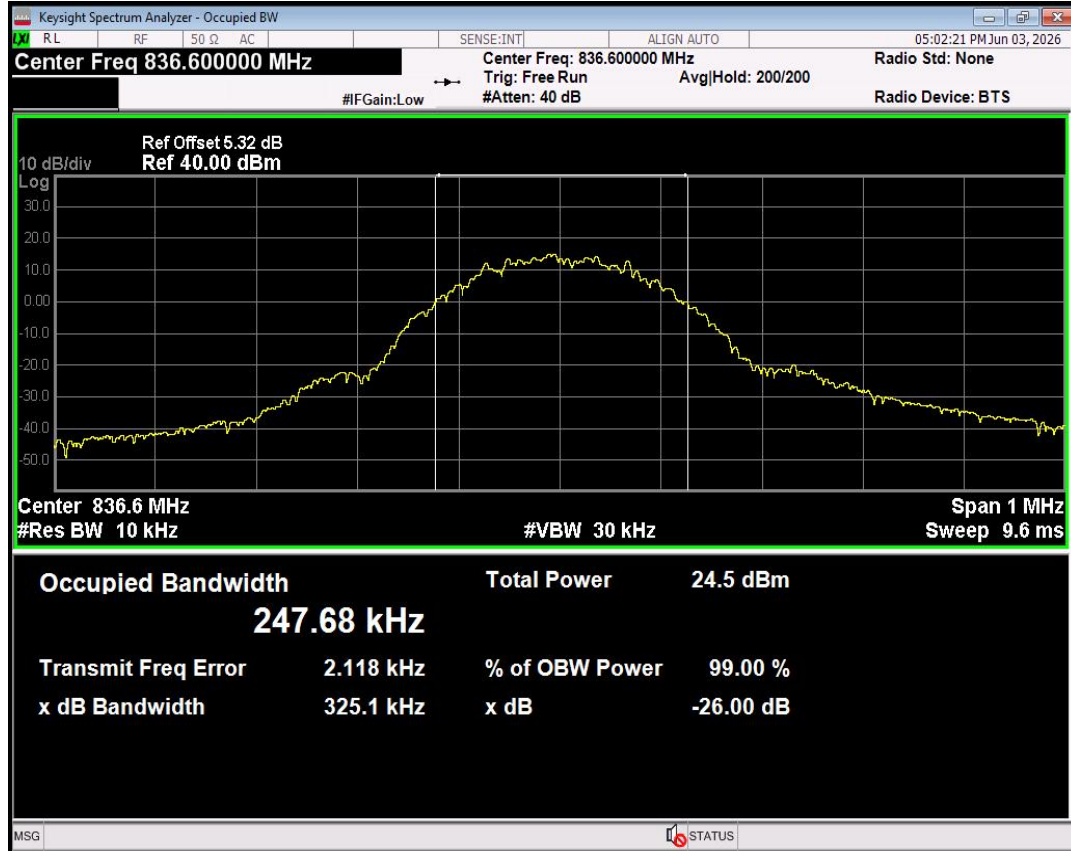
GSM1900 Channel=810 NVNT

04 Occupied bandwidth

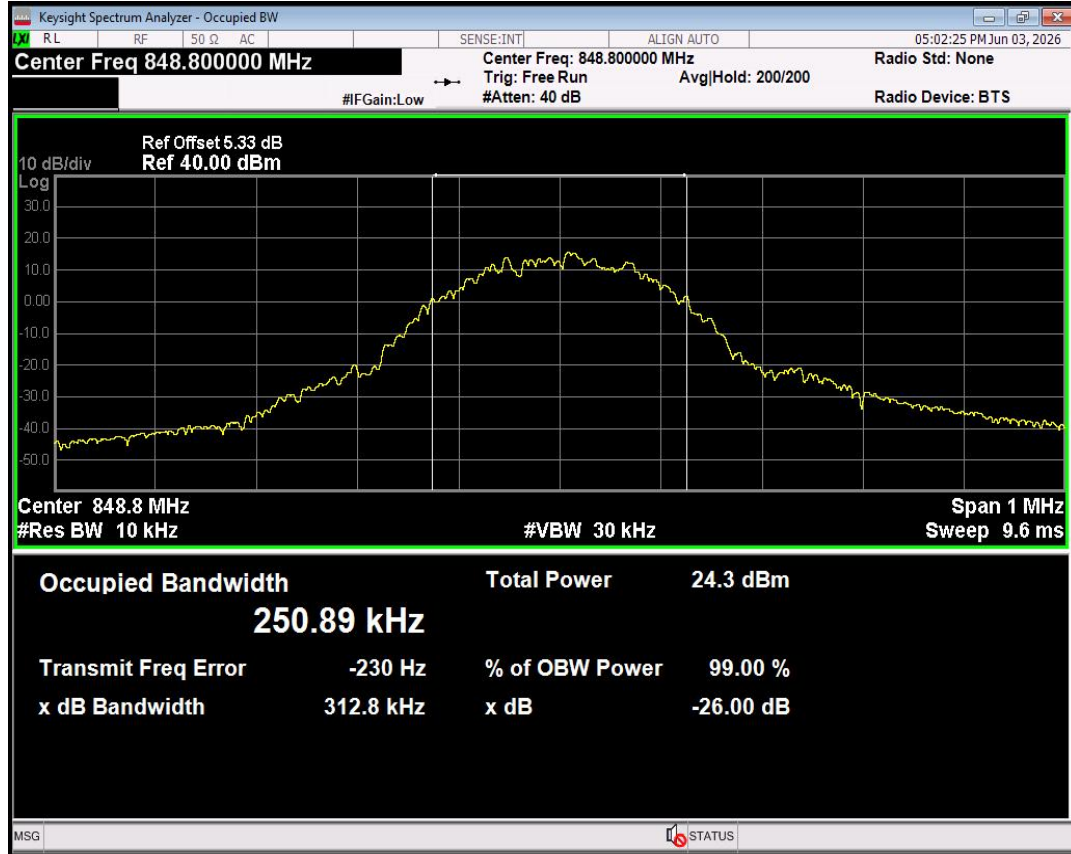
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GSM850	128	824.2	248.846	316.770	PASS
NVNT	GSM850	190	836.6	247.681	325.086	PASS
NVNT	GSM850	251	848.8	250.890	312.849	PASS
NVNT	GSM1900	512	1850.2	245.868	308.875	PASS
NVNT	GSM1900	661	1880	243.553	310.775	PASS
NVNT	GSM1900	810	1909.8	247.982	318.421	PASS



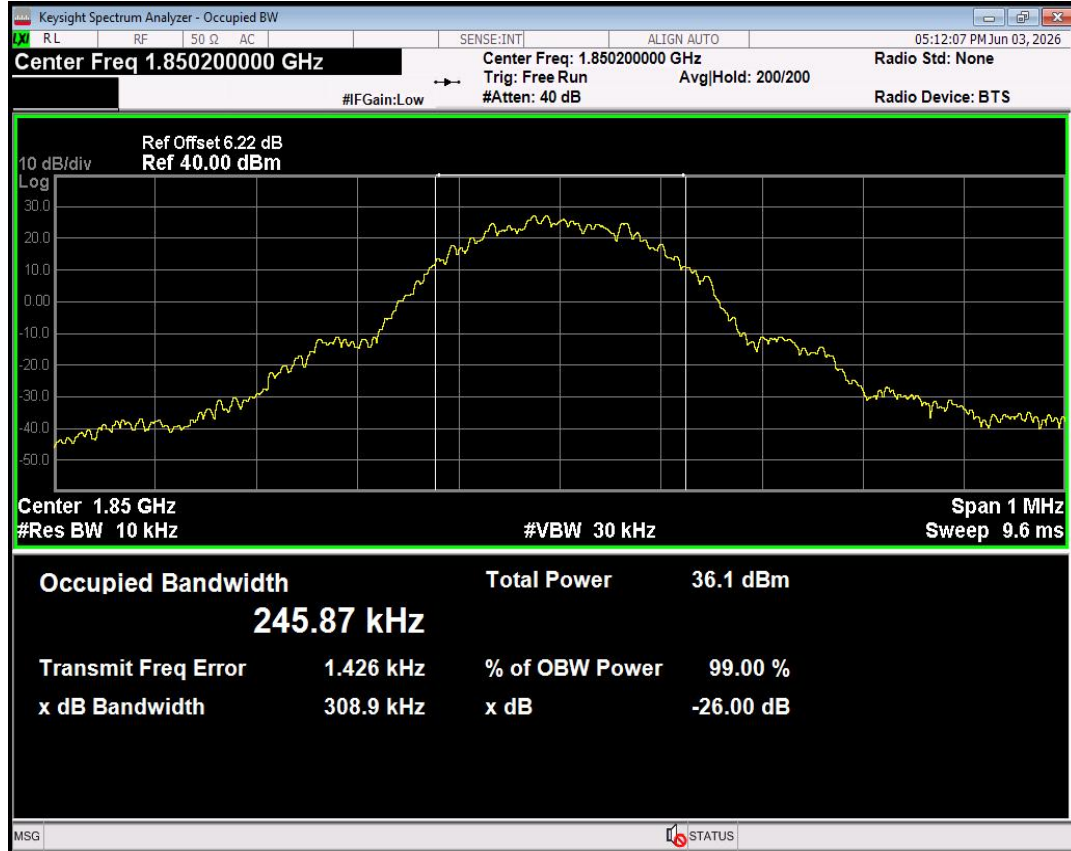
GSM850 Channel=128 NVNT



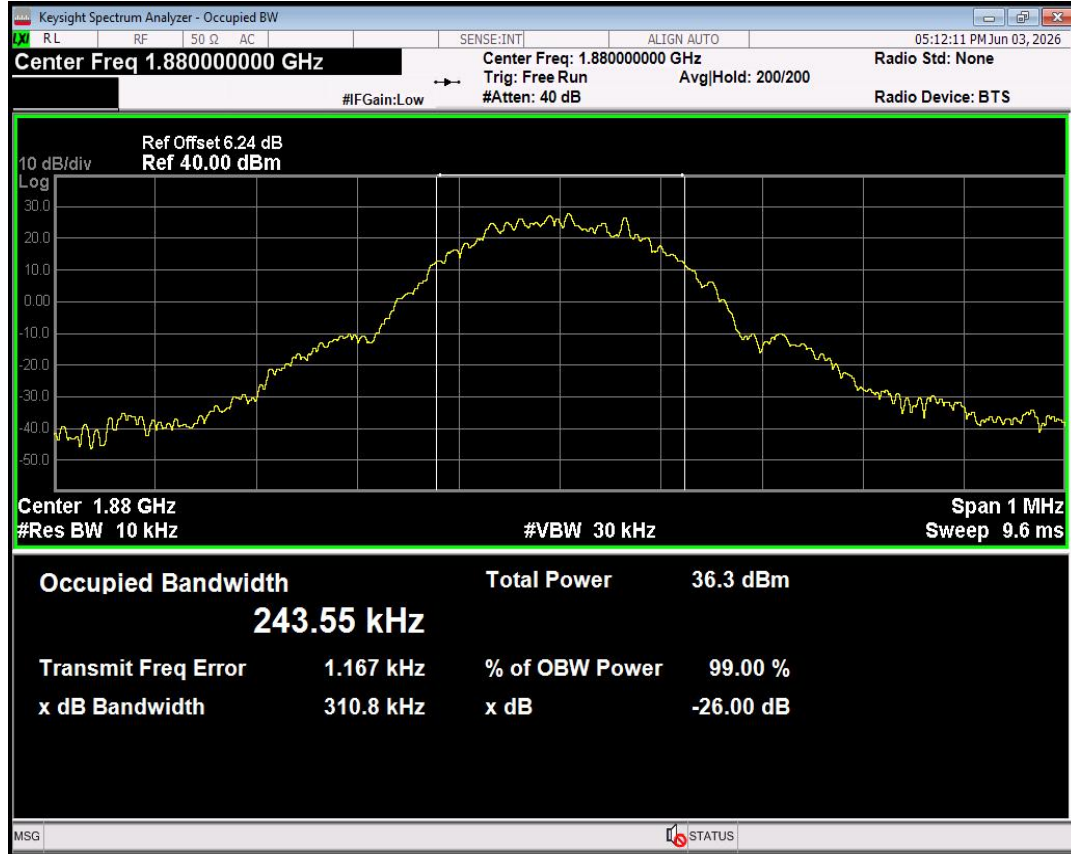
GSM850 Channel=190 NVNT



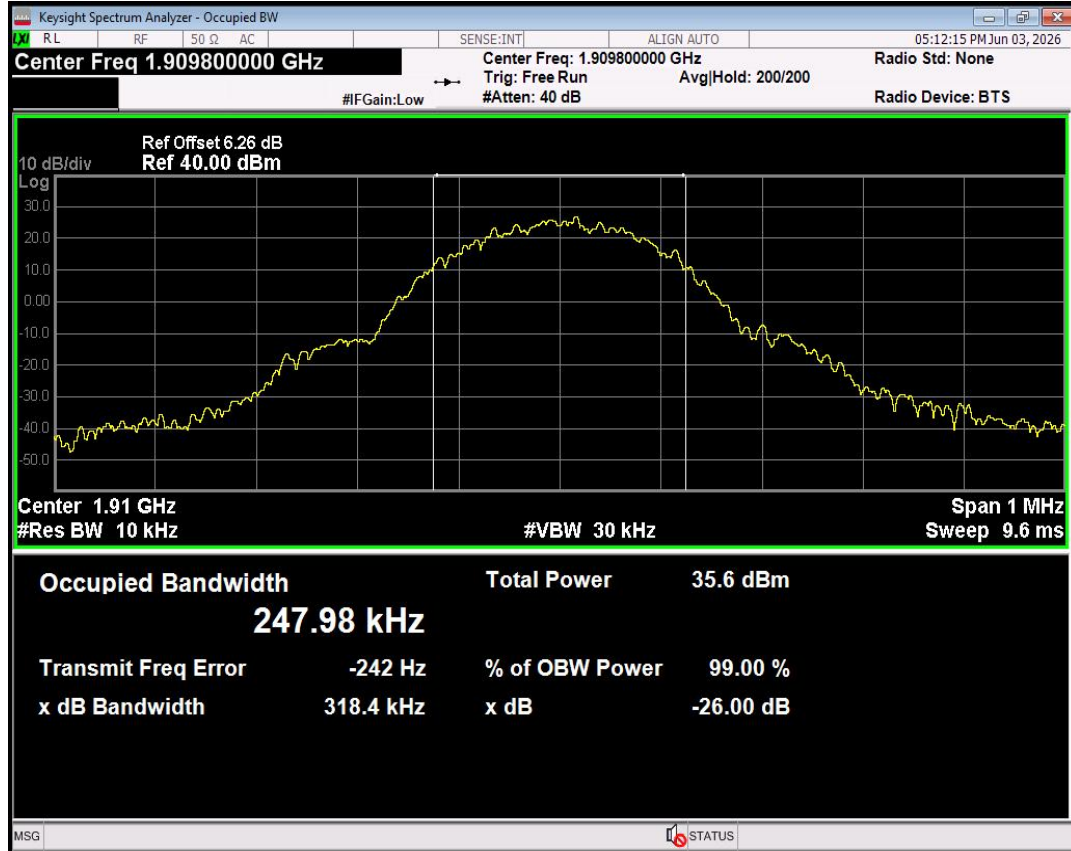
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



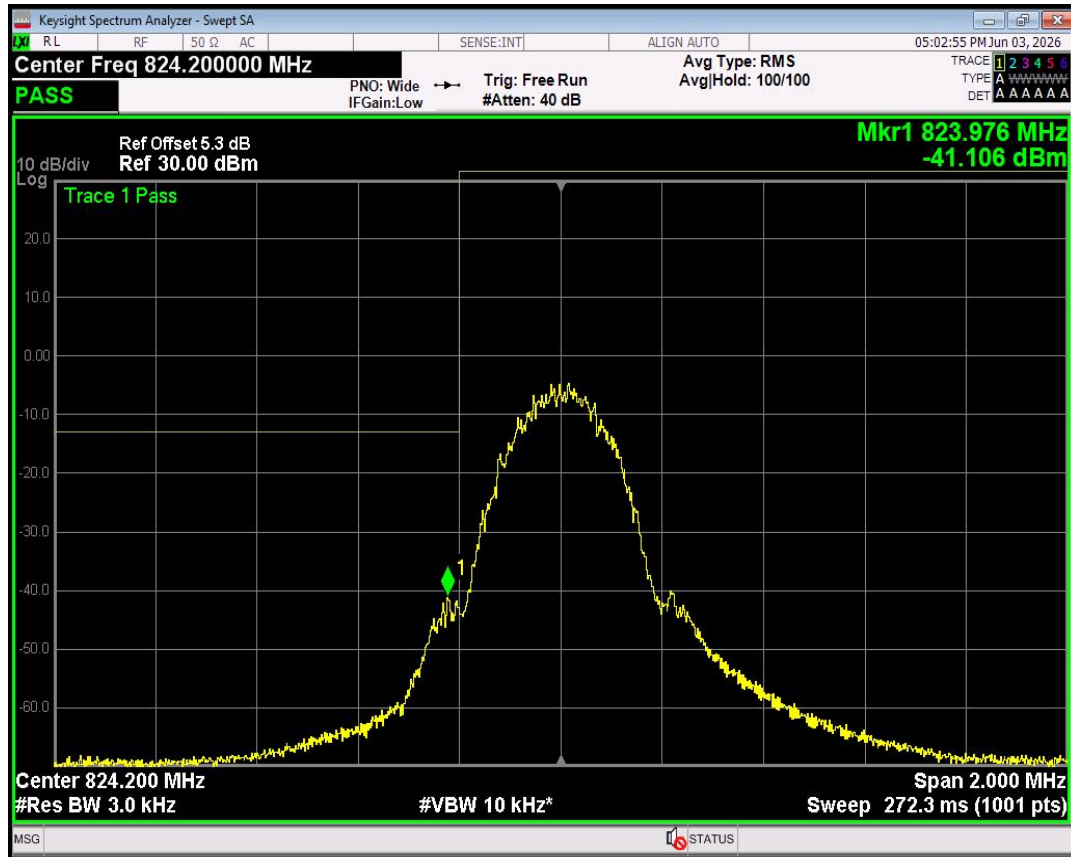
GSM1900 Channel=661 NVNT



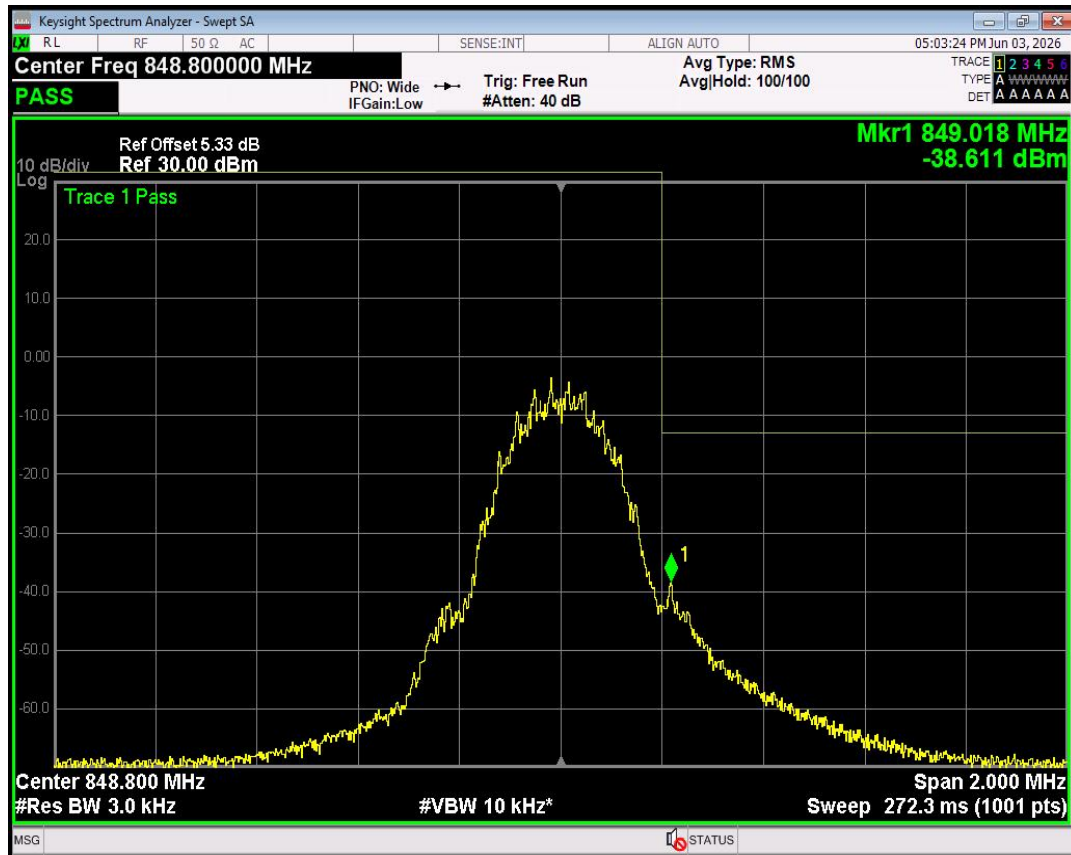
GSM1900 Channel=810 NVNT

05 Band edge

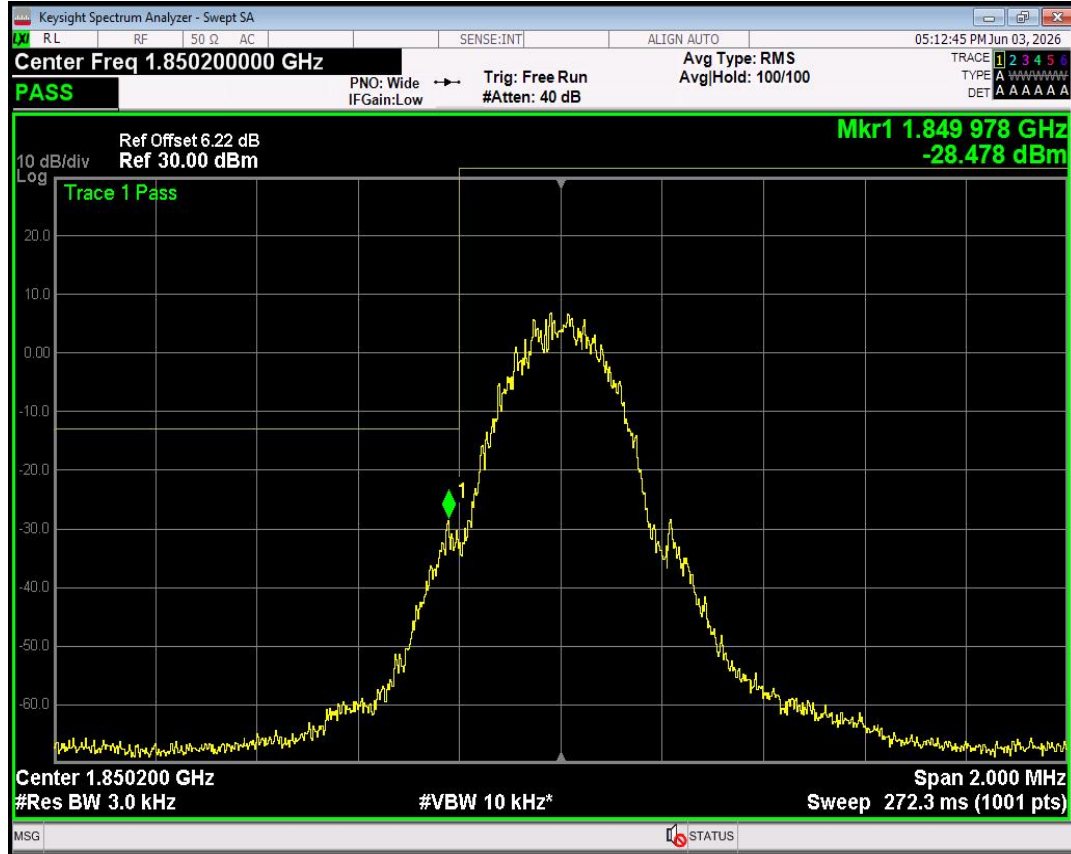
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GSM850	128	824.2	823.98	-41.10	-13	PASS
NVNT	GSM850	251	848.8	849.02	-38.61	-13	PASS
NVNT	GSM1900	512	1850.2	1849.98	-28.47	-13	PASS
NVNT	GSM1900	810	1909.8	1910.02	-29.72	-13	PASS



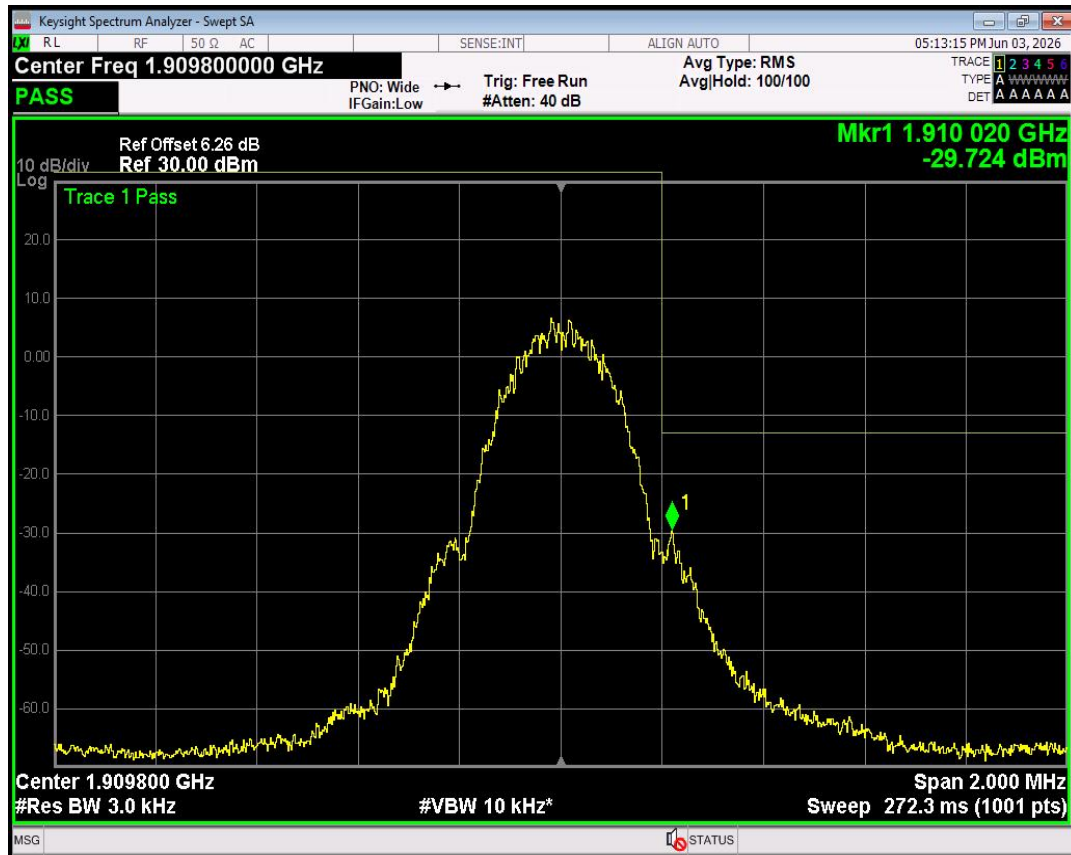
GSM850 Channel=128 NVNT



GSM850 Channel=251 NVNT



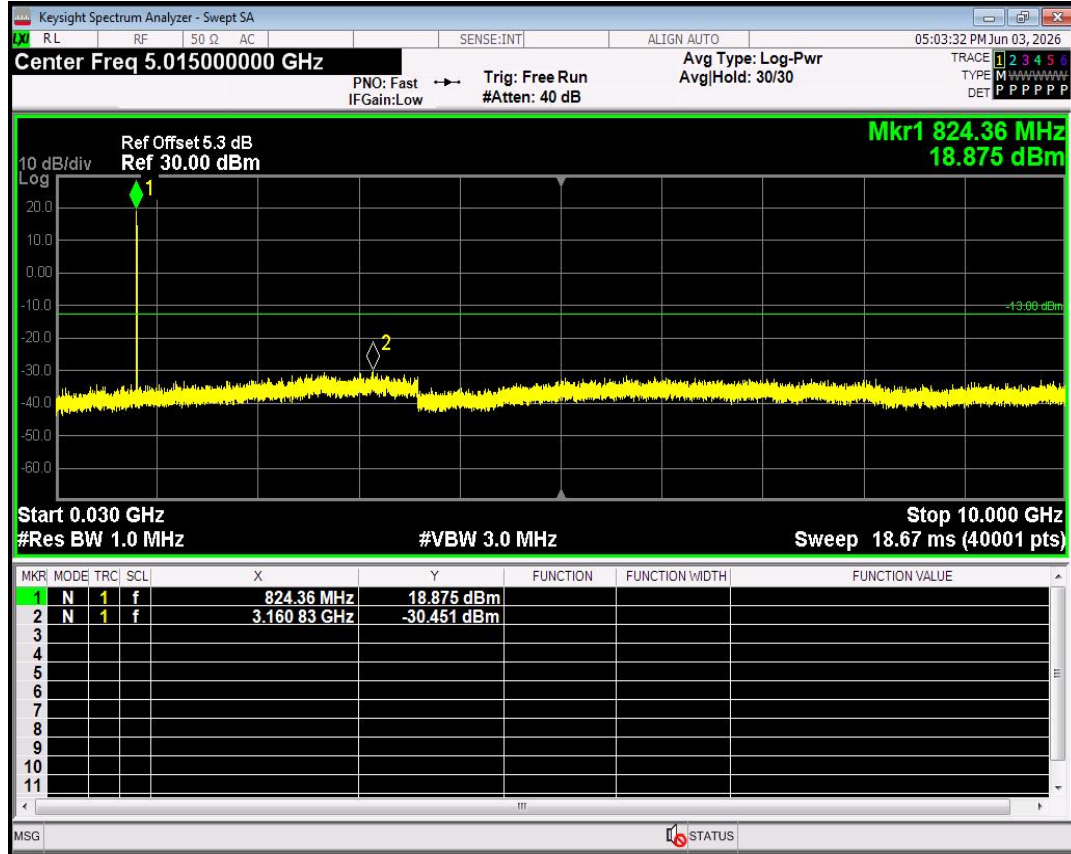
GSM1900 Channel=512 NVNT



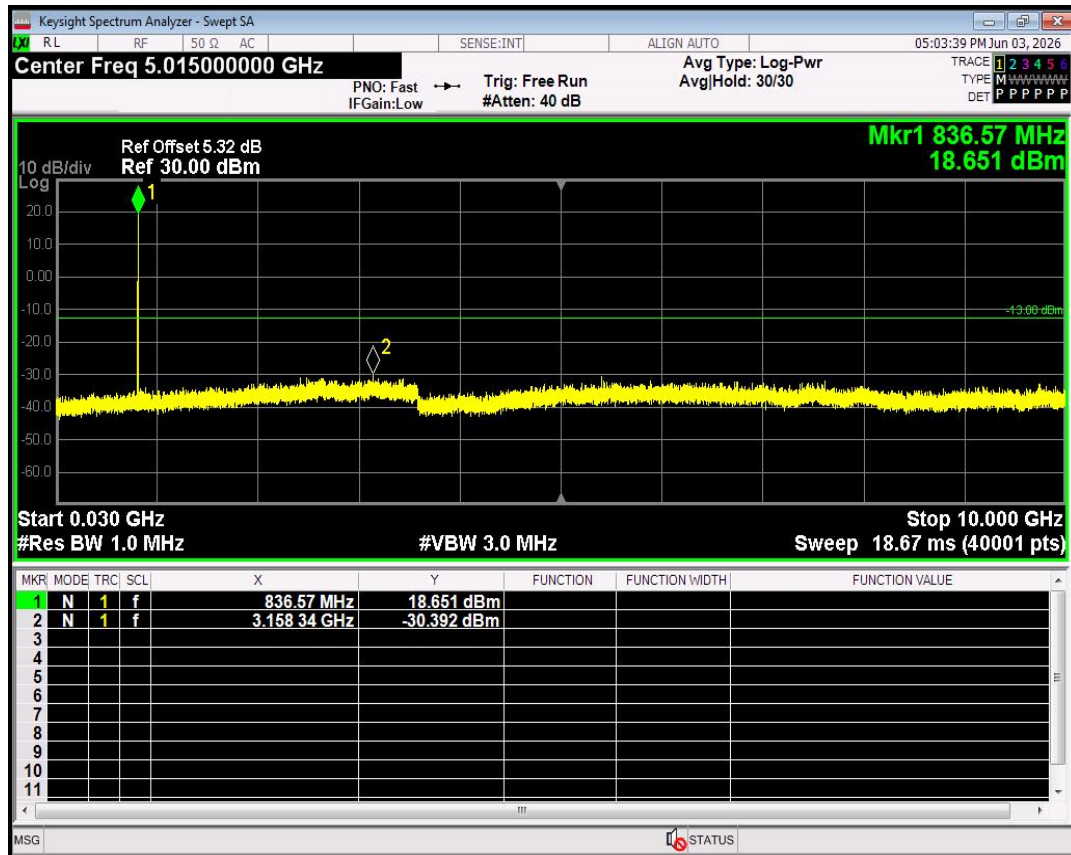
GSM1900 Channel=810 NVNT

06 Out-of-band emissions

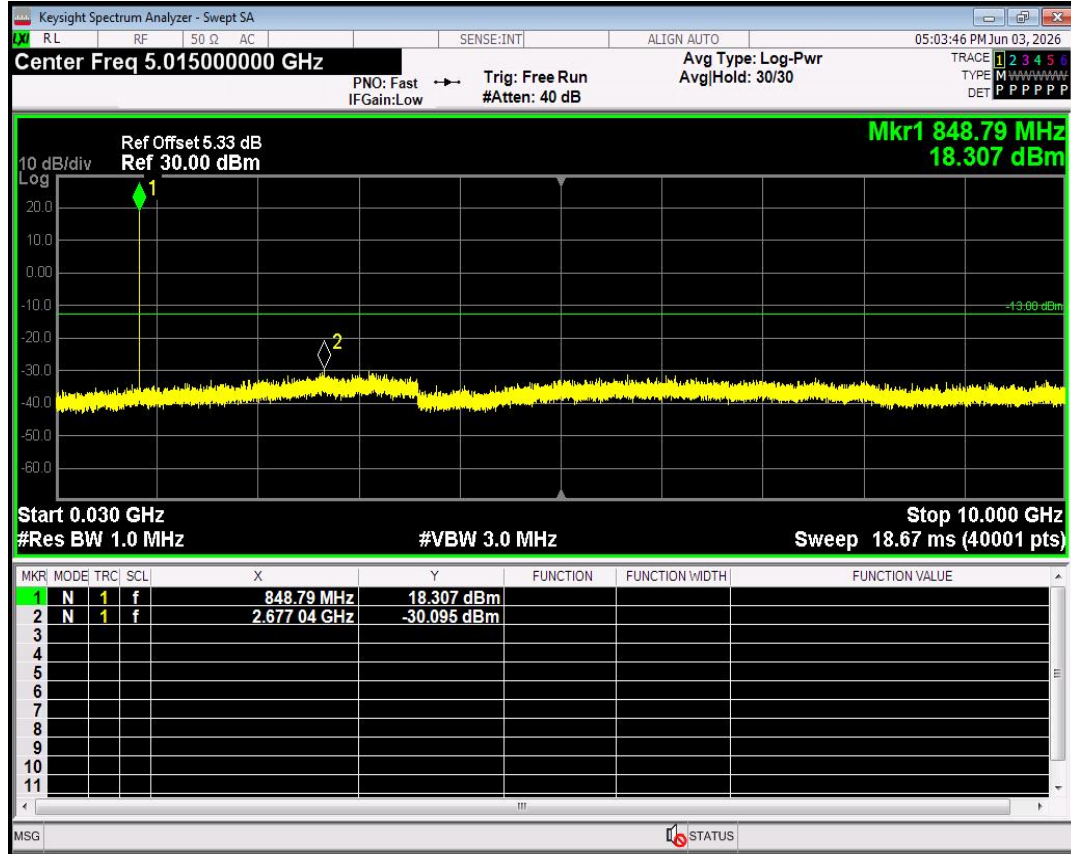
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GSM850	128	824.2	3160.83	-30.45	-13	PASS
NVNT	GSM850	190	836.6	3158.34	-30.39	-13	PASS
NVNT	GSM850	251	848.8	2677.04	-30.09	-13	PASS
NVNT	GSM1900	512	1850.2	18971.05	-26.87	-13	PASS
NVNT	GSM1900	661	1880	19065.90	-26.11	-13	PASS
NVNT	GSM1900	810	1909.8	16544.19	-26.63	-13	PASS



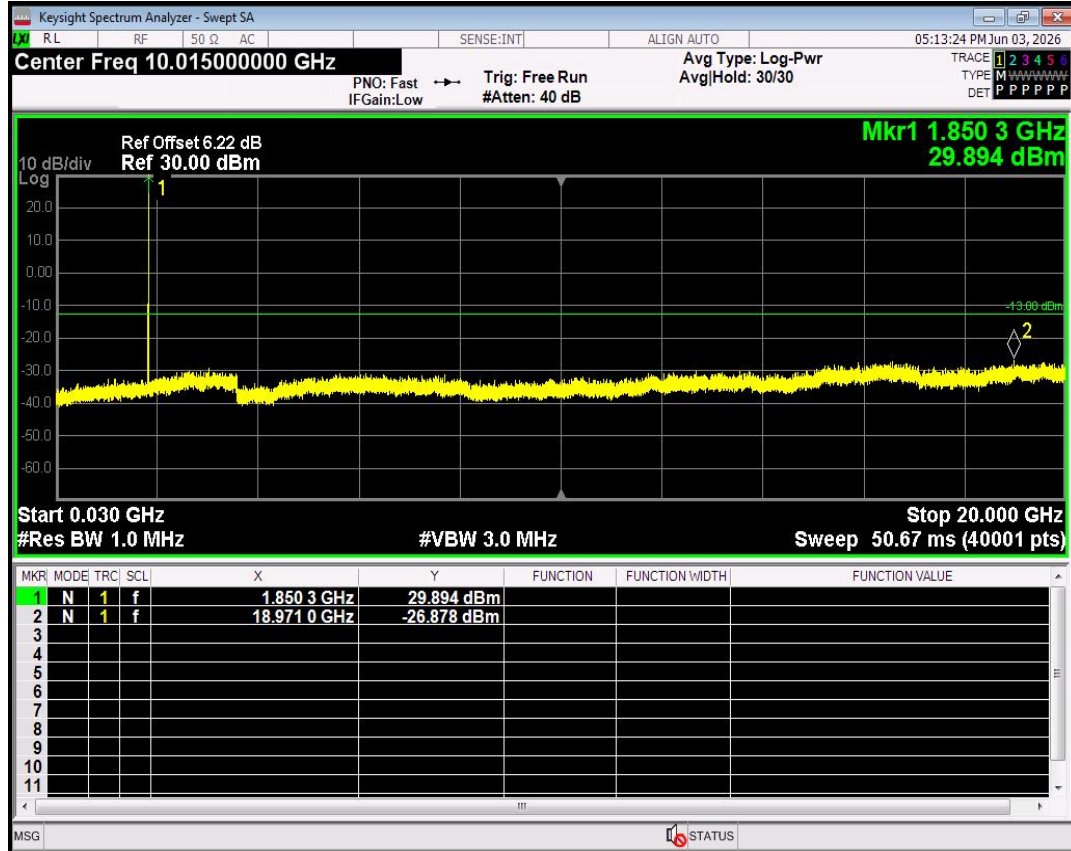
GSM850 Channel=128 NVNT



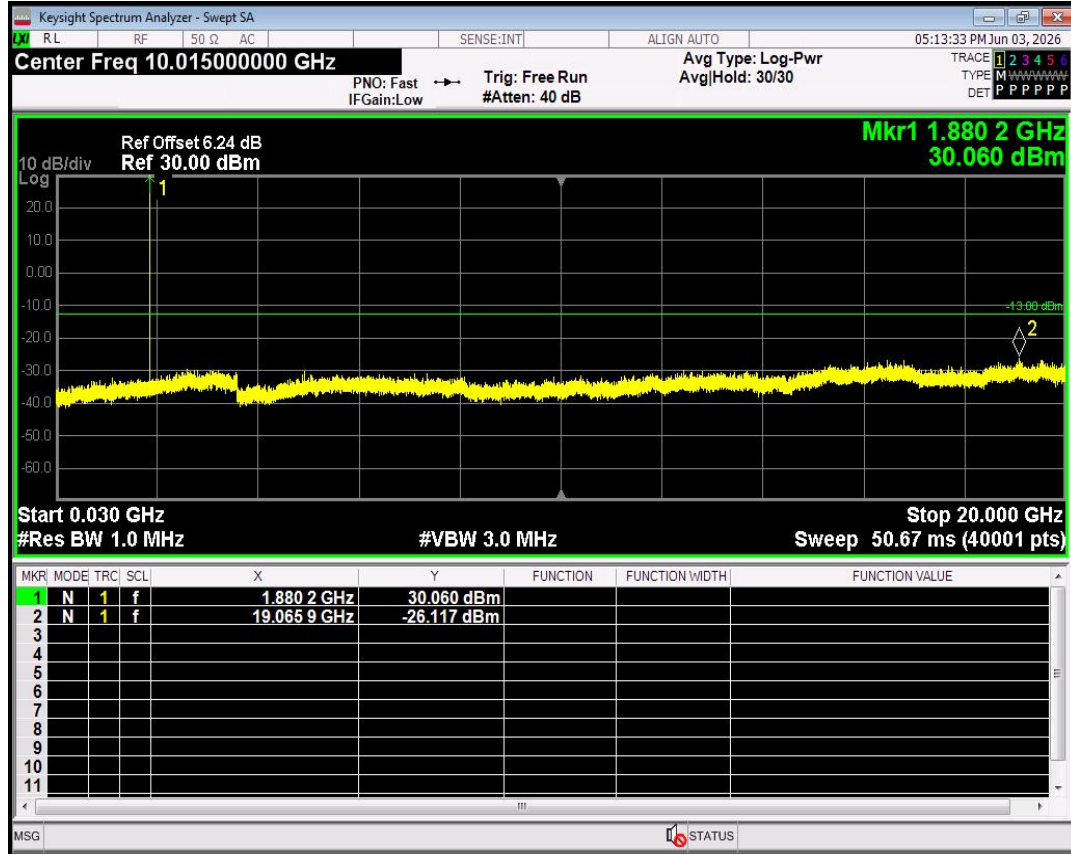
GSM850 Channel=190 NVNT



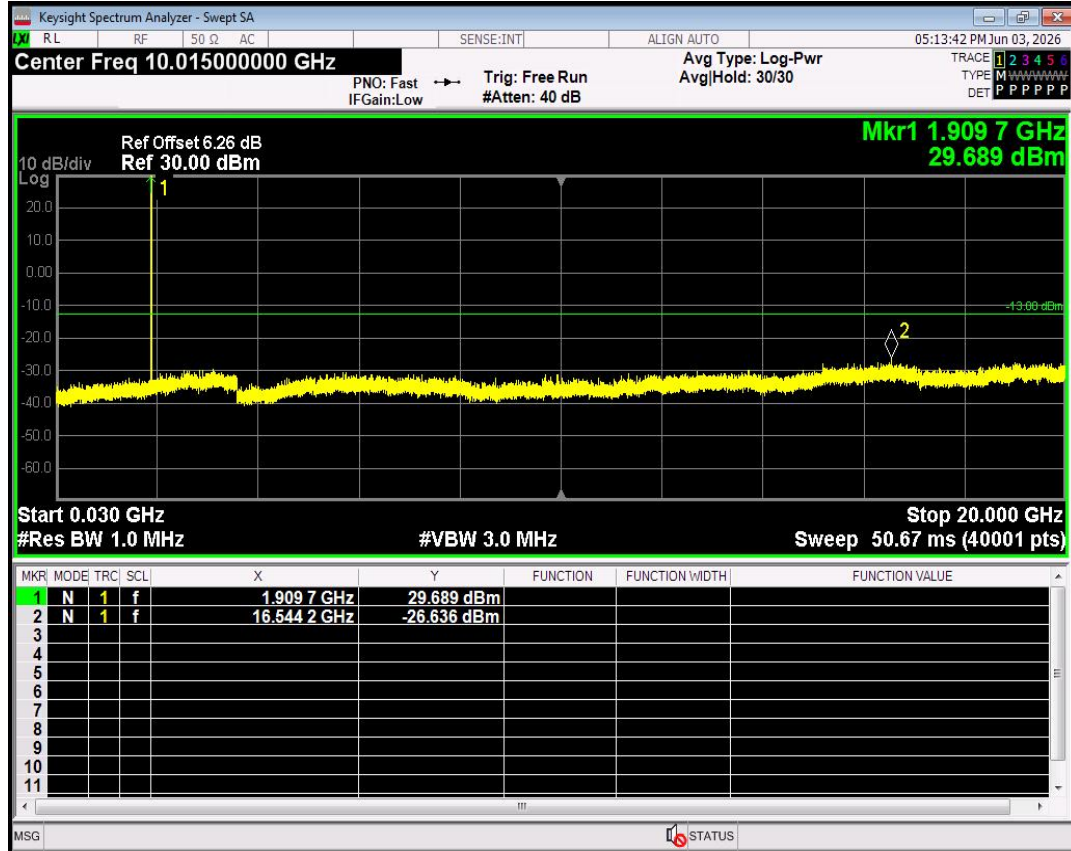
GSM850 Channel=251 NVNT



GSM1900 Channel=512 NVNT



GSM1900 Channel=661 NVNT



GSM1900 Channel=810 NVNT

07 Conducted output power (ERP)

Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
NVNT	GPRS850 1 Slot	128	824.2	31.78815	0.8	30.43815	1106.15	7000	PASS
NVNT	GPRS850 1 Slot	190	836.6	31.66641	0.8	30.31641	1075.58	7000	PASS
NVNT	GPRS850 1 Slot	251	848.8	31.38934	0.8	30.03934	1009.1	7000	PASS
NVNT	GPRS850 2 Slot	128	824.2	31.13821	0.8	29.78821	952.4	7000	PASS
NVNT	GPRS850 2 Slot	190	836.6	31.03464	0.8	29.68464	929.96	7000	PASS
NVNT	GPRS850 2 Slot	251	848.8	30.75146	0.8	29.40146	871.26	7000	PASS
NVNT	GPRS850 3 Slot	128	824.2	29.5484	0.8	28.1984	660.45	7000	PASS
NVNT	GPRS850 3 Slot	190	836.6	29.47031	0.8	28.12031	648.68	7000	PASS
NVNT	GPRS850 3 Slot	251	848.8	29.22464	0.8	27.87464	613	7000	PASS
NVNT	GPRS850 4 Slot	128	824.2	28.46039	0.8	27.11039	514.09	7000	PASS
NVNT	GPRS850 4 Slot	190	836.6	28.39511	0.8	27.04511	506.42	7000	PASS
NVNT	GPRS850 4 Slot	251	848.8	28.18979	0.8	26.83979	483.04	7000	PASS

07 Conducted output power (EIRP)

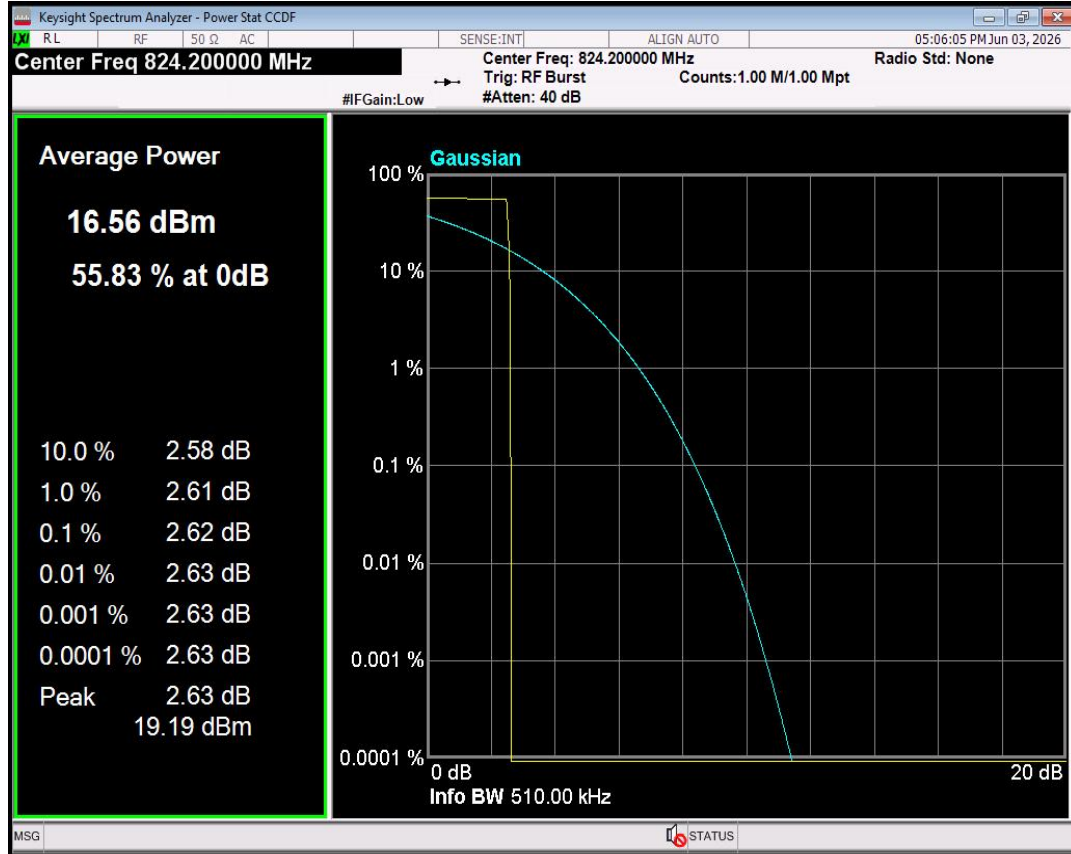
Condition	Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
NVNT	GPRS1900 1 Slot	512	1850.2	28.6893	0	28.6893	739.49	2000	PASS
NVNT	GPRS1900 1 Slot	661	1880	28.76416	0	28.76416	752.34	2000	PASS
NVNT	GPRS1900 1 Slot	810	1909.8	28.80341	0	28.80341	759.17	2000	PASS
NVNT	GPRS1900 2 Slot	512	1850.2	27.99799	0	27.99799	630.67	2000	PASS
NVNT	GPRS1900 2 Slot	661	1880	28.09726	0	28.09726	645.25	2000	PASS
NVNT	GPRS1900 2 Slot	810	1909.8	28.13754	0	28.13754	651.26	2000	PASS
NVNT	GPRS1900 3 Slot	512	1850.2	26.35022	0	26.35022	431.54	2000	PASS
NVNT	GPRS1900 3 Slot	661	1880	26.4469	0	26.4469	441.26	2000	PASS
NVNT	GPRS1900 3 Slot	810	1909.8	26.53592	0	26.53592	450.39	2000	PASS
NVNT	GPRS1900 4 Slot	512	1850.2	25.23962	0	25.23962	334.17	2000	PASS
NVNT	GPRS1900 4 Slot	661	1880	25.34714	0	25.34714	342.54	2000	PASS
NVNT	GPRS1900 4 Slot	810	1909.8	25.44107	0	25.44107	350.03	2000	PASS

08 Frequency stability

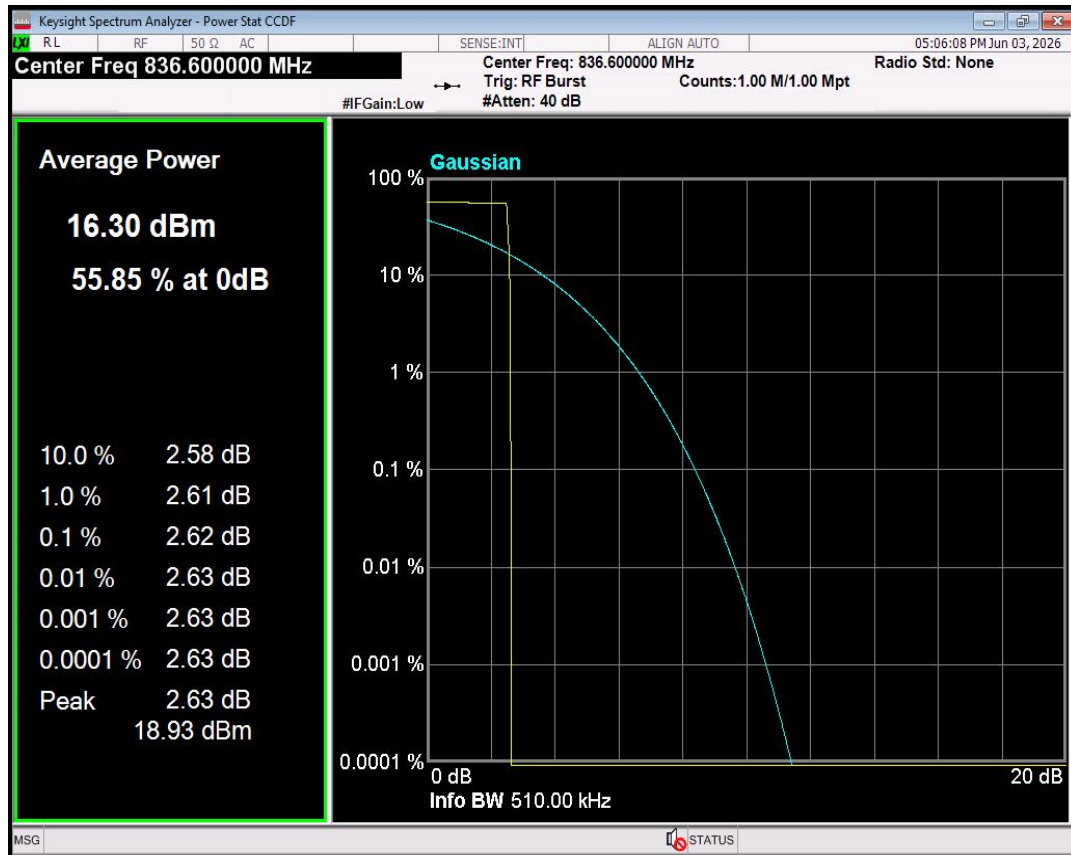
Condition	Band	Channel	Frequency (MHz)	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
NVNT	GPRS850	128	824.2	2.615154	0.00	-2.500	2.5	PASS
NVNT	GPRS850	190	836.6	0.5811453	0.00	-2.500	2.5	PASS
NVNT	GPRS850	251	848.8	-1.840293	0.00	-2.500	2.5	PASS
NVNT	GPRS1900	512	1850.2	11.26776	0.01	-2.500	2.5	PASS
NVNT	GPRS1900	661	1880	9.87947	0.01	-2.500	2.5	PASS
NVNT	GPRS1900	810	1909.8	12.62377	0.01	-2.500	2.5	PASS
LVLT	GPRS850	128	824.2	7.328888	0.01	-2.500	2.5	PASS
LVLT	GPRS850	190	836.6	4.132589	0.00	-2.500	2.5	PASS
LVLT	GPRS850	251	848.8	5.488594	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	512	1850.2	14.20577	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	661	1880	11.3969	0.01	-2.500	2.5	PASS
LVLT	GPRS1900	810	1909.8	17.49893	0.01	-2.500	2.5	PASS
LVHT	GPRS850	128	824.2	5.940596	0.01	-2.500	2.5	PASS
LVHT	GPRS850	190	836.6	4.326304	0.01	-2.500	2.5	PASS
LVHT	GPRS850	251	848.8	5.940596	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	512	1850.2	11.49376	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	661	1880	12.26862	0.01	-2.500	2.5	PASS
LVHT	GPRS1900	810	1909.8	11.10633	0.01	-2.500	2.5	PASS
HVLT	GPRS850	128	824.2	7.038315	0.01	-2.500	2.5	PASS
HVLT	GPRS850	190	836.6	7.458031	0.01	-2.500	2.5	PASS
HVLT	GPRS850	251	848.8	8.006891	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	512	1850.2	14.39949	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	661	1880	10.9449	0.01	-2.500	2.5	PASS
HVLT	GPRS1900	810	1909.8	11.20319	0.01	-2.500	2.5	PASS
HVHT	GPRS850	128	824.2	8.523464	0.01	-2.500	2.5	PASS
HVHT	GPRS850	190	836.6	7.587175	0.01	-2.500	2.5	PASS
HVHT	GPRS850	251	848.8	7.974605	0.01	-2.500	2.5	PASS
HVHT	GPRS1900	512	1850.2	13.94749	0.01	-2.500	2.5	PASS
HVHT	GPRS1900	661	1880	8.975466	0.00	-2.500	2.5	PASS
HVHT	GPRS1900	810	1909.8	11.13862	0.01	-2.500	2.5	PASS

09 Peak-to-Average Ratio

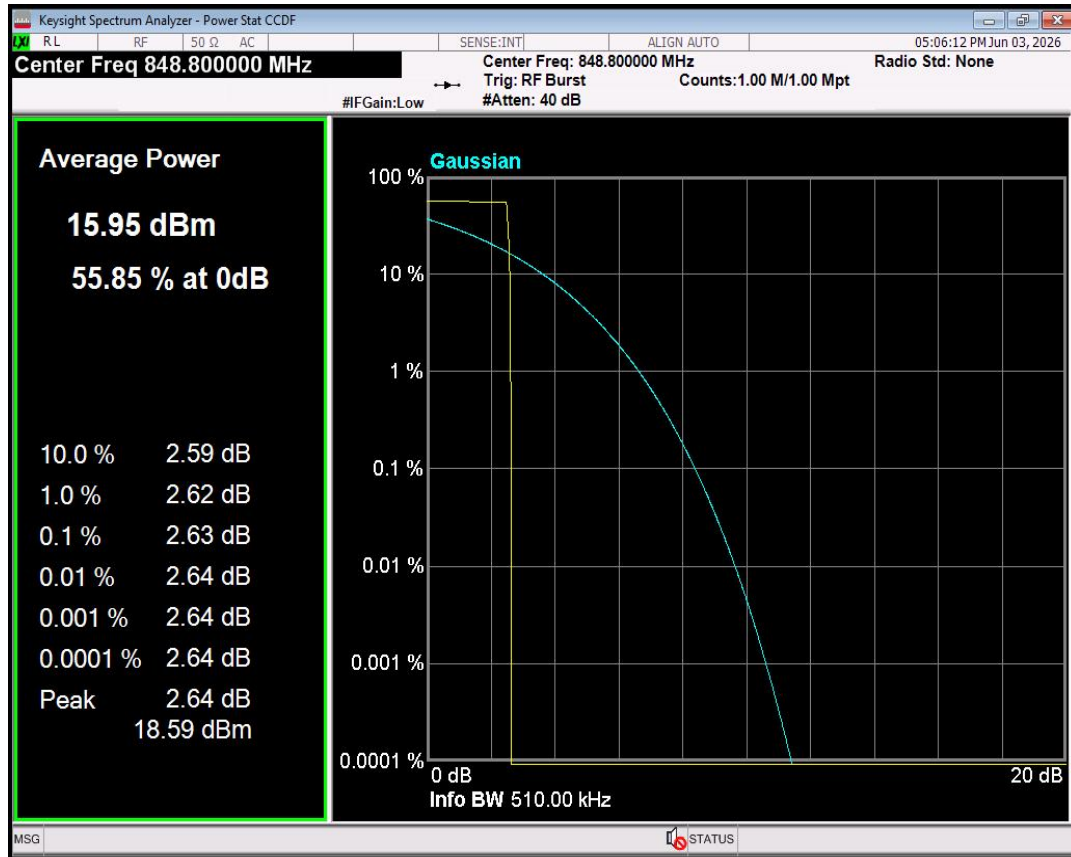
Condition	Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
NVNT	GPRS850	128	824.2	2.618402778	13.00	PASS
NVNT	GPRS850	190	836.6	2.619321364	13.00	PASS
NVNT	GPRS850	251	848.8	2.62788096	13.00	PASS
NVNT	GPRS1900	512	1850.2	2.694875208	13.00	PASS
NVNT	GPRS1900	661	1880	2.699736204	13.00	PASS
NVNT	GPRS1900	810	1909.8	2.719543776	13.00	PASS



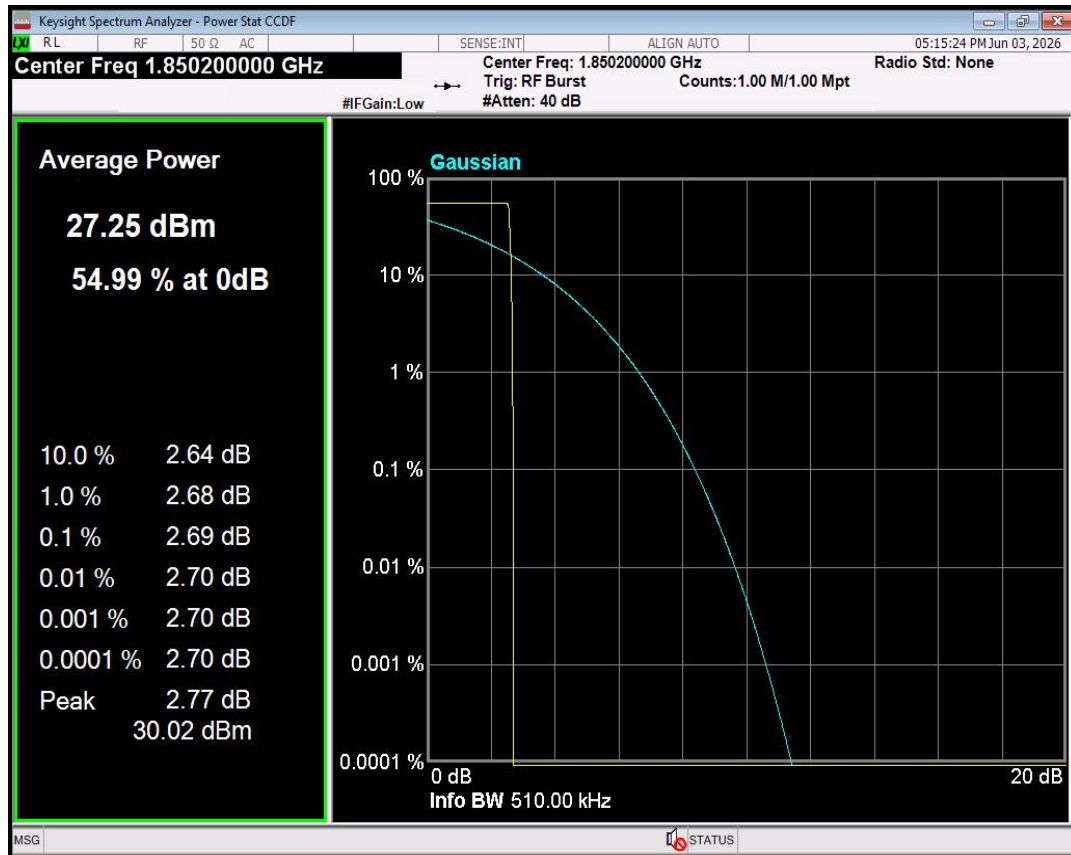
GPRS850 Channel=128 NVNT



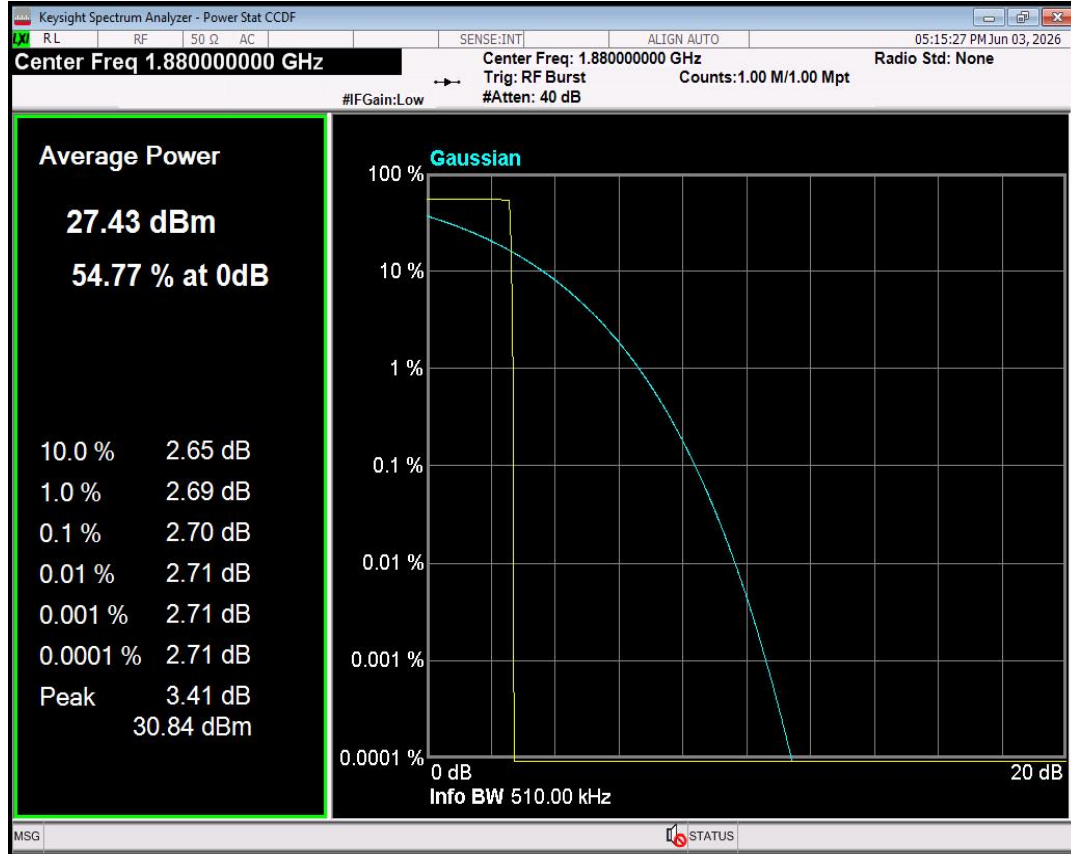
GPRS850 Channel=190 NVNT



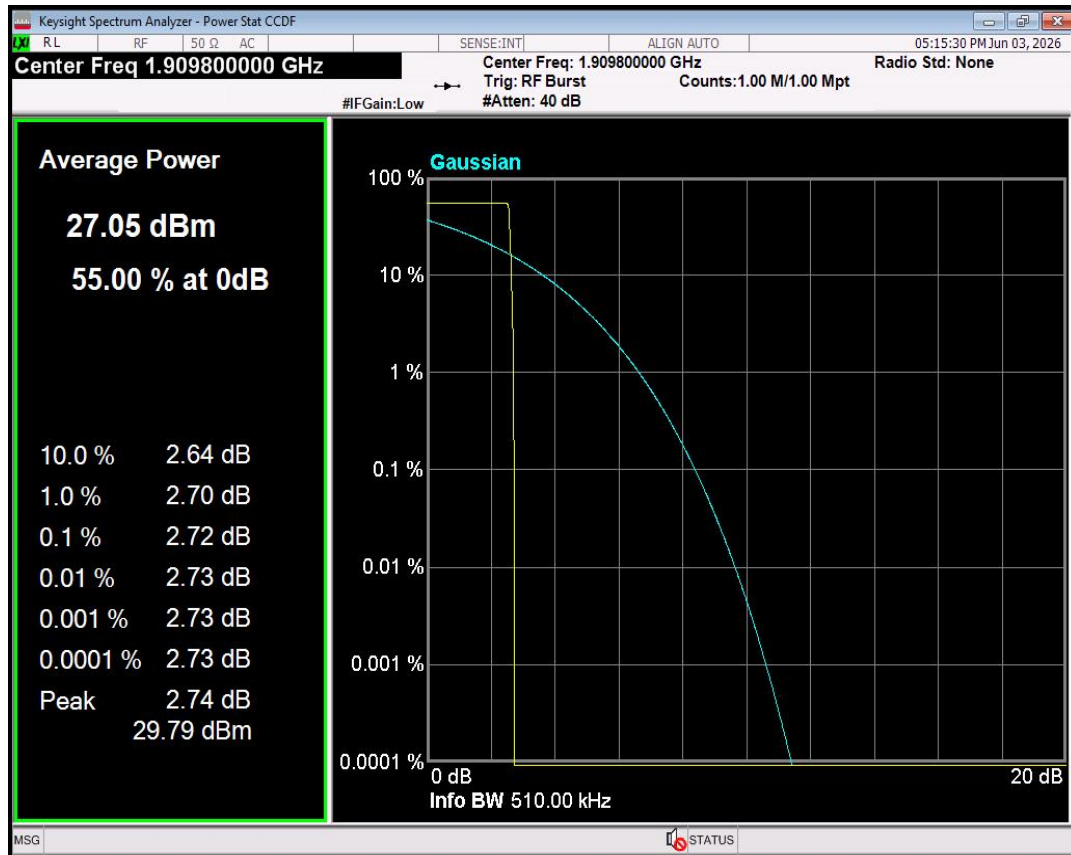
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



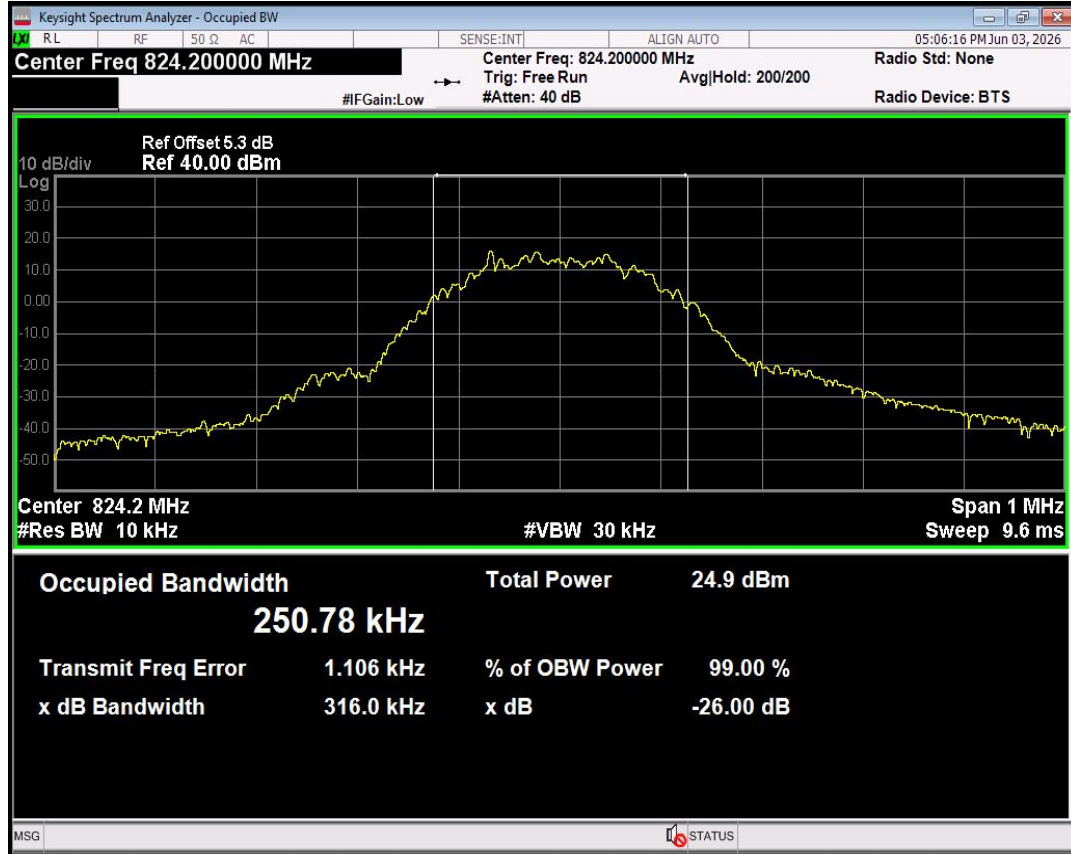
GPRS1900 Channel=661 NVNT



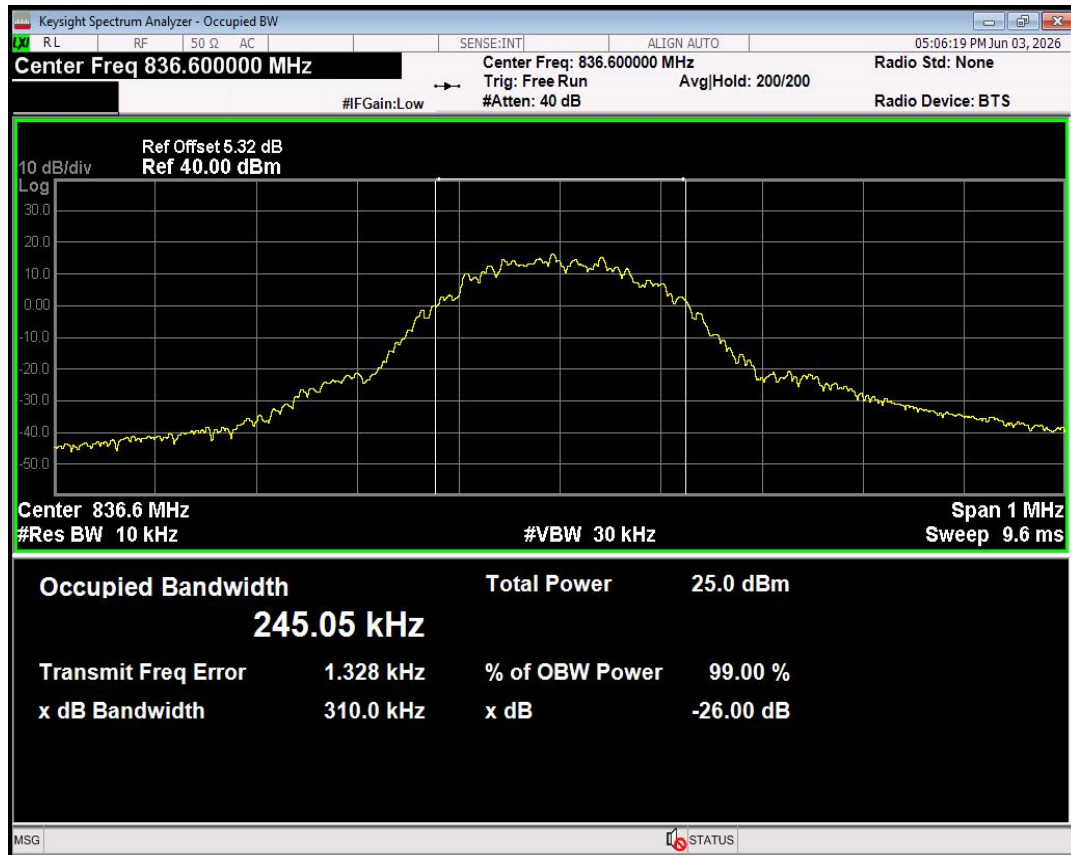
GPRS1900 Channel=810 NVNT

10 Occupied bandwidth

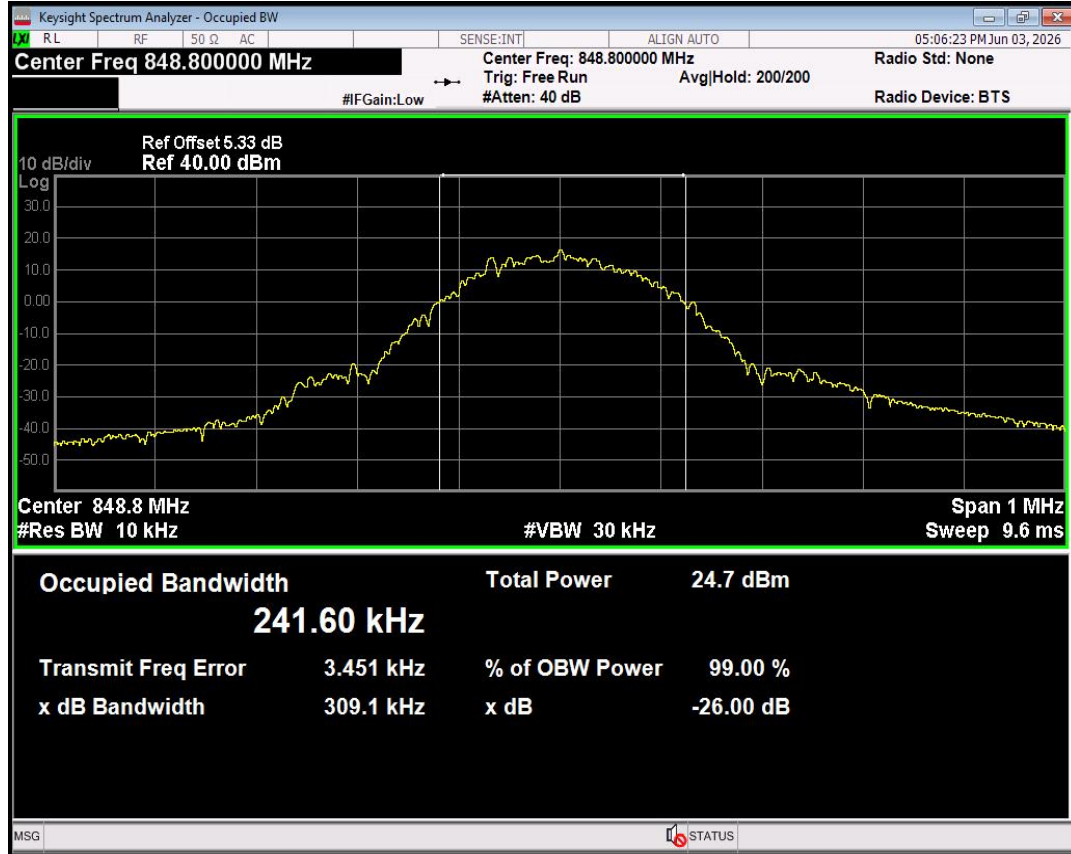
Condition	Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
NVNT	GPRS850	128	824.2	250.776	315.988	PASS
NVNT	GPRS850	190	836.6	245.050	309.980	PASS
NVNT	GPRS850	251	848.8	241.601	309.081	PASS
NVNT	GPRS1900	512	1850.2	246.321	313.730	PASS
NVNT	GPRS1900	661	1880	243.994	322.088	PASS
NVNT	GPRS1900	810	1909.8	251.532	311.366	PASS



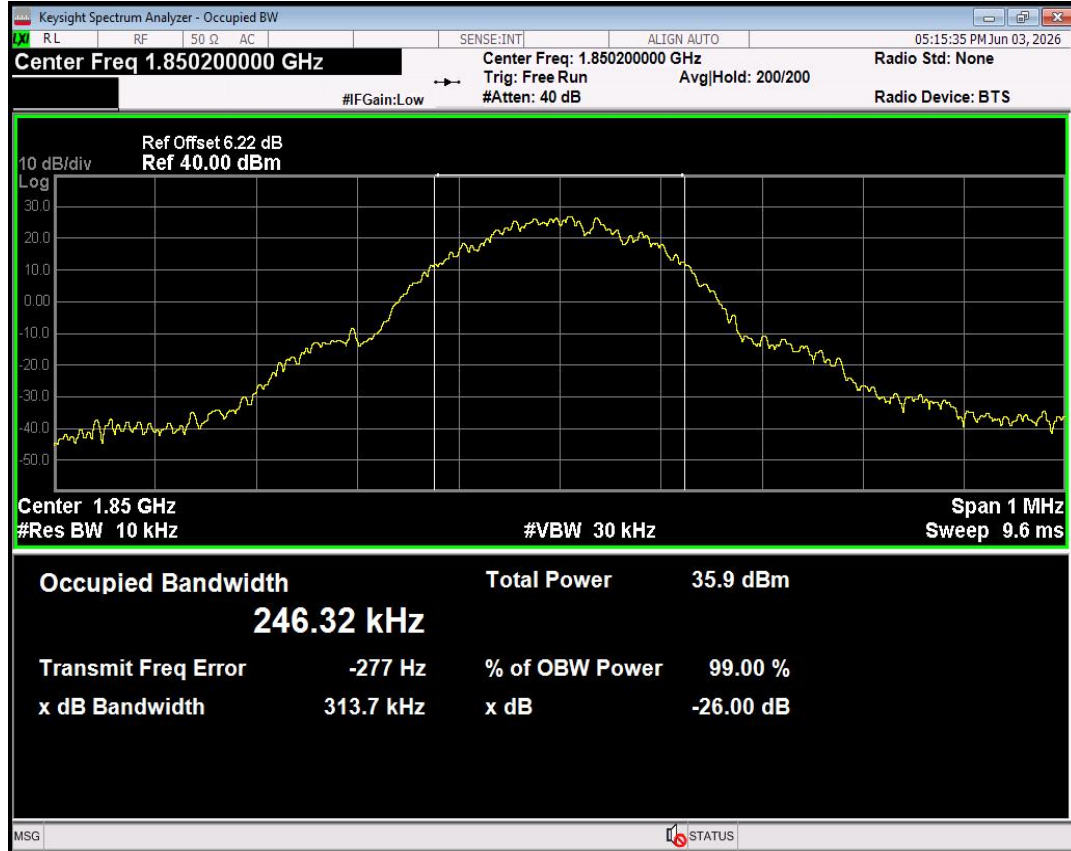
GPRS850 Channel=128 NVNT



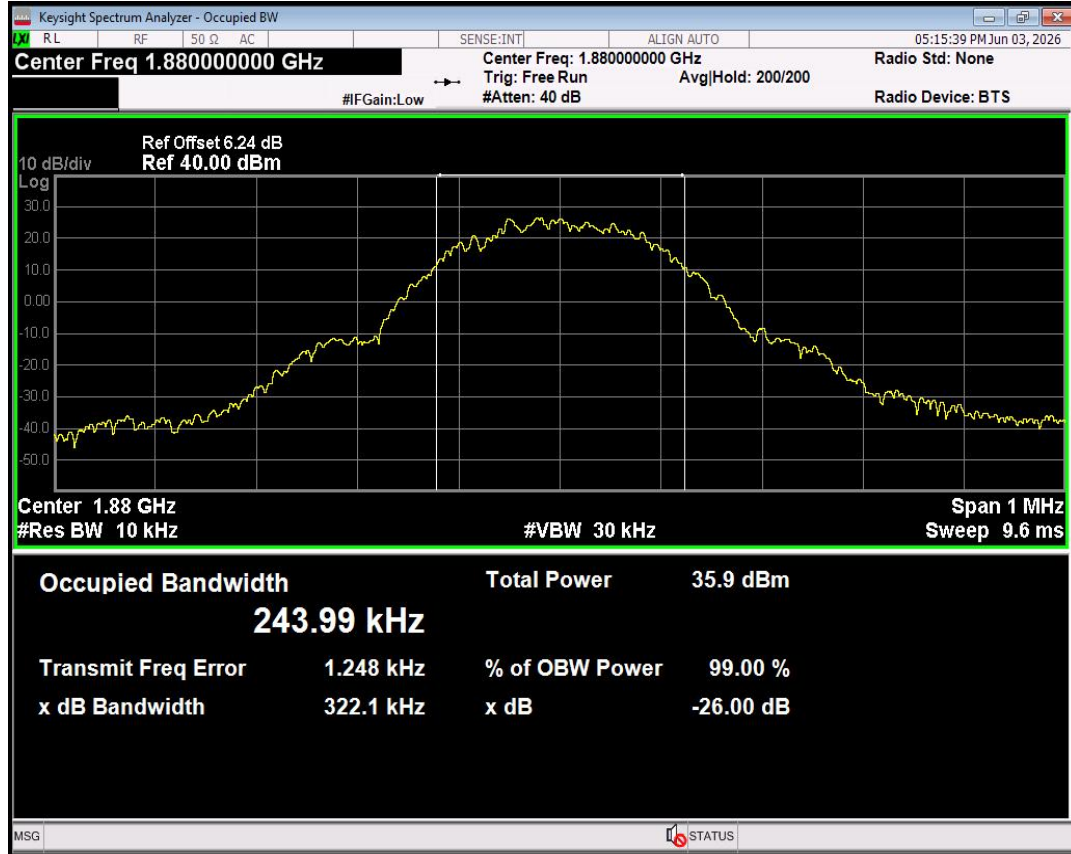
GPRS850 Channel=190 NVNT



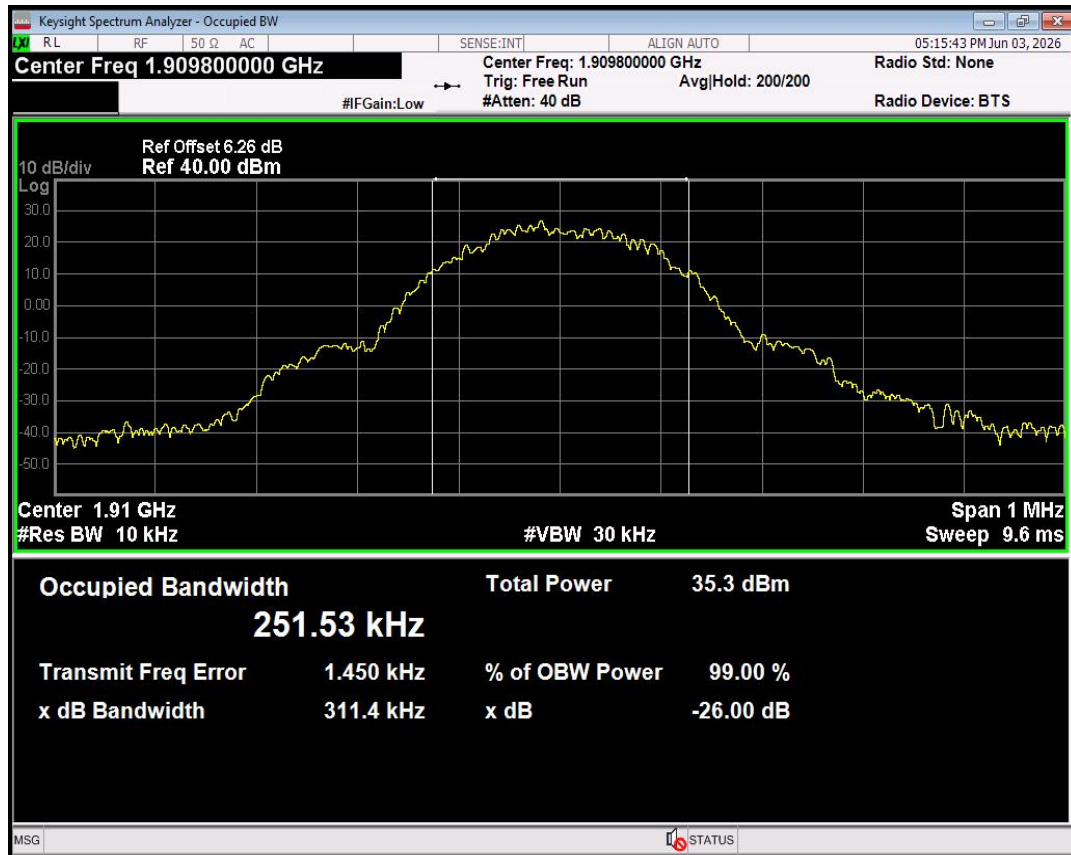
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



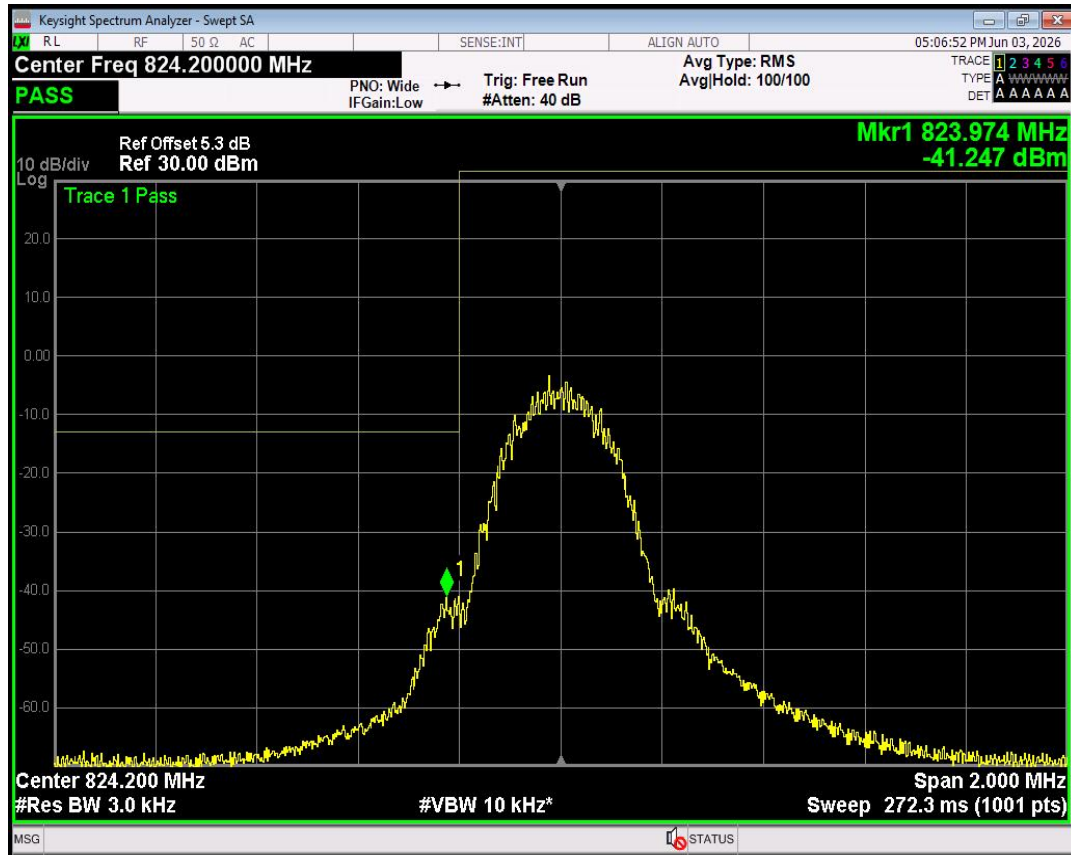
GPRS1900 Channel=661 NVNT



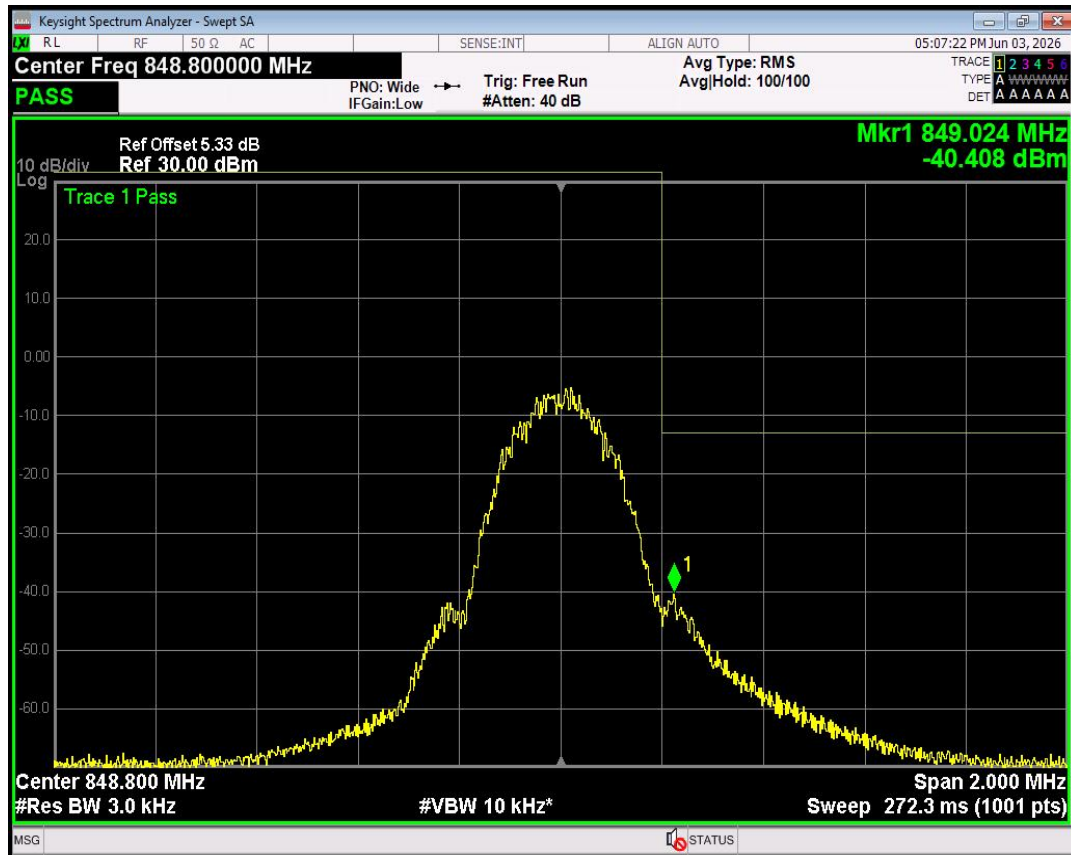
GPRS1900 Channel=810 NVNT

11 Band edge

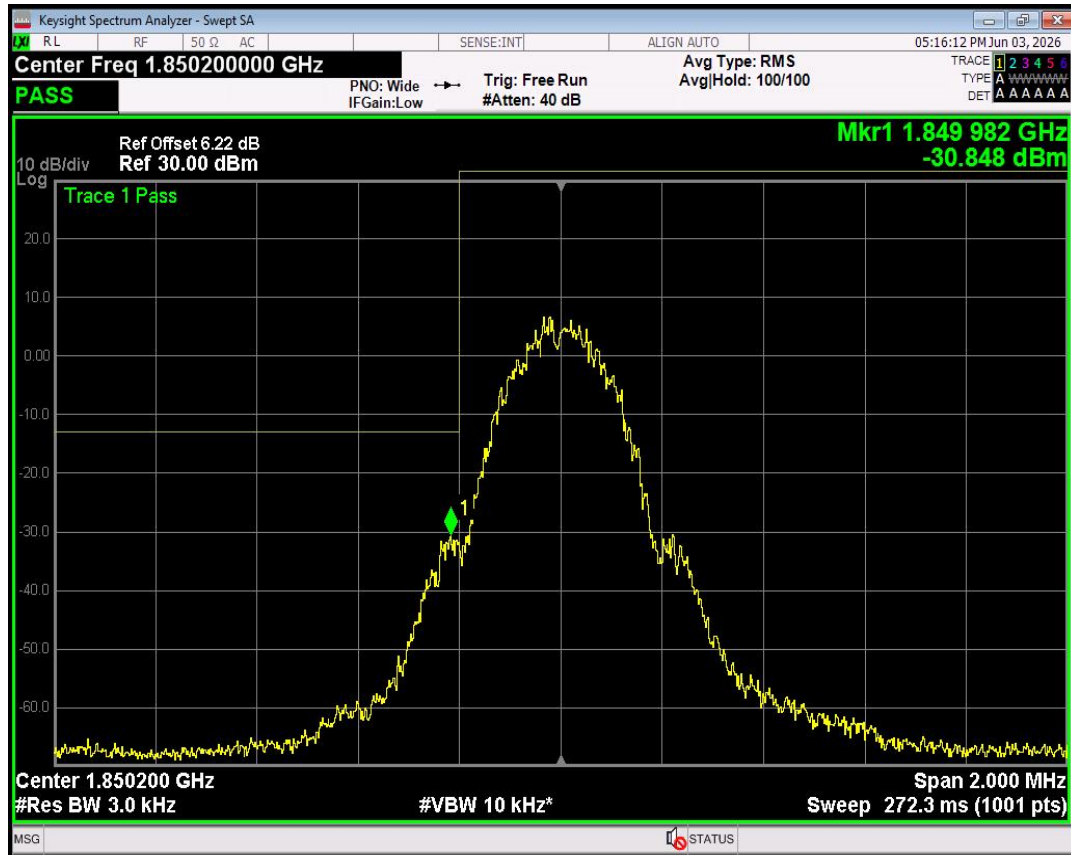
Condition	Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	GPRS850	128	824.2	823.97	-41.24	-13	PASS
NVNT	GPRS850	251	848.8	849.02	-40.40	-13	PASS
NVNT	GPRS1900	512	1850.2	1849.98	-30.84	-13	PASS
NVNT	GPRS1900	810	1909.8	1910.01	-31.87	-13	PASS



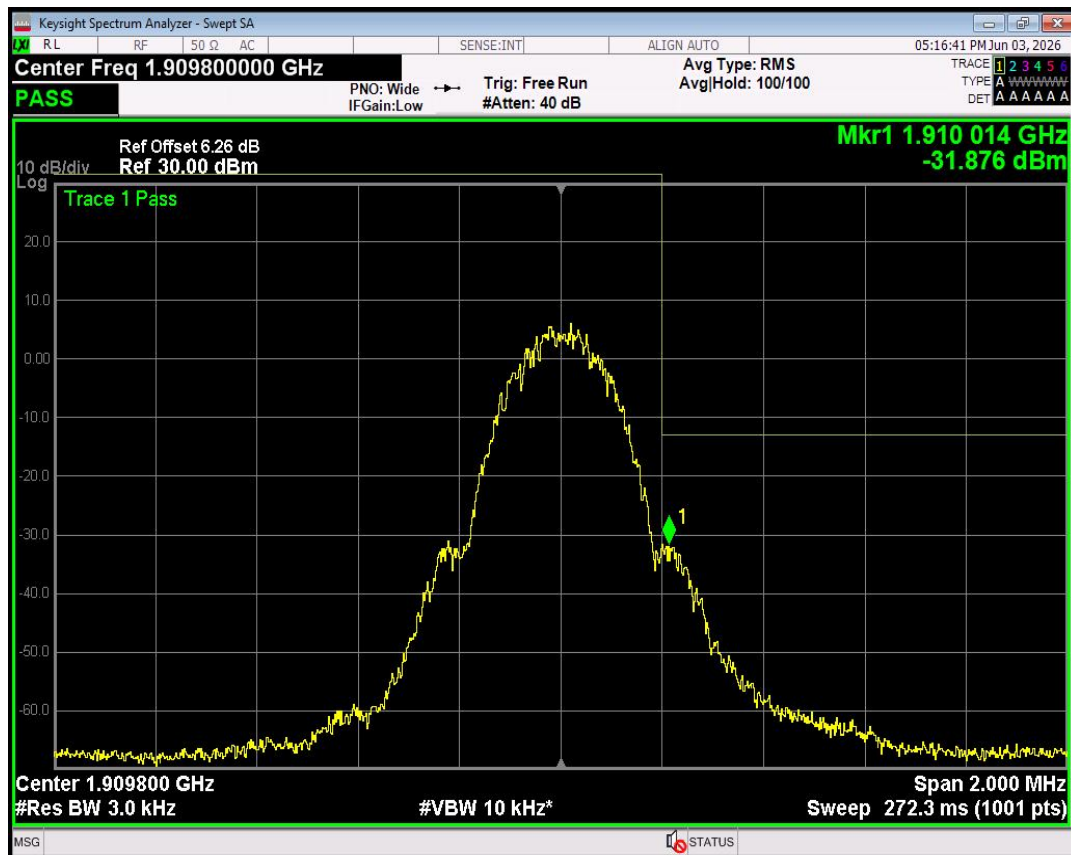
GPRS850 Channel=128 NVNT



GPRS850 Channel=251 NVNT



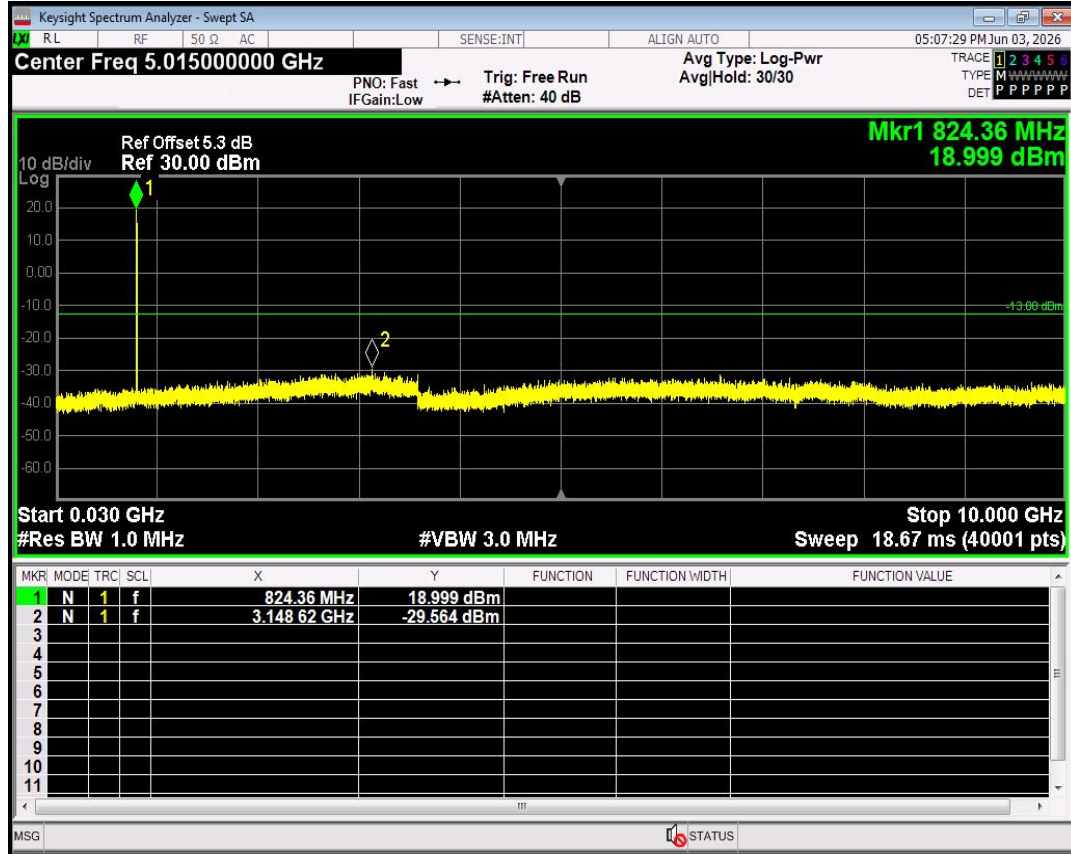
GPRS1900 Channel=512 NVNT



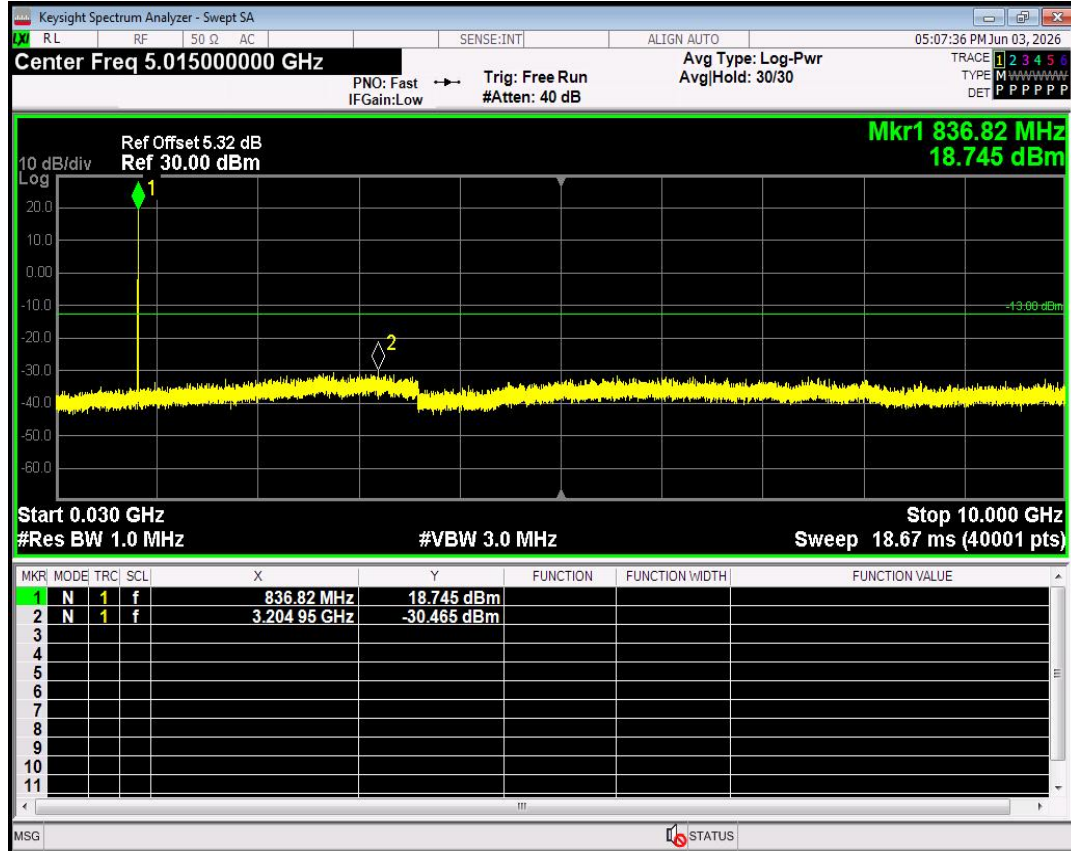
GPRS1900 Channel=810 NVNT

12 Out-of-band emissions

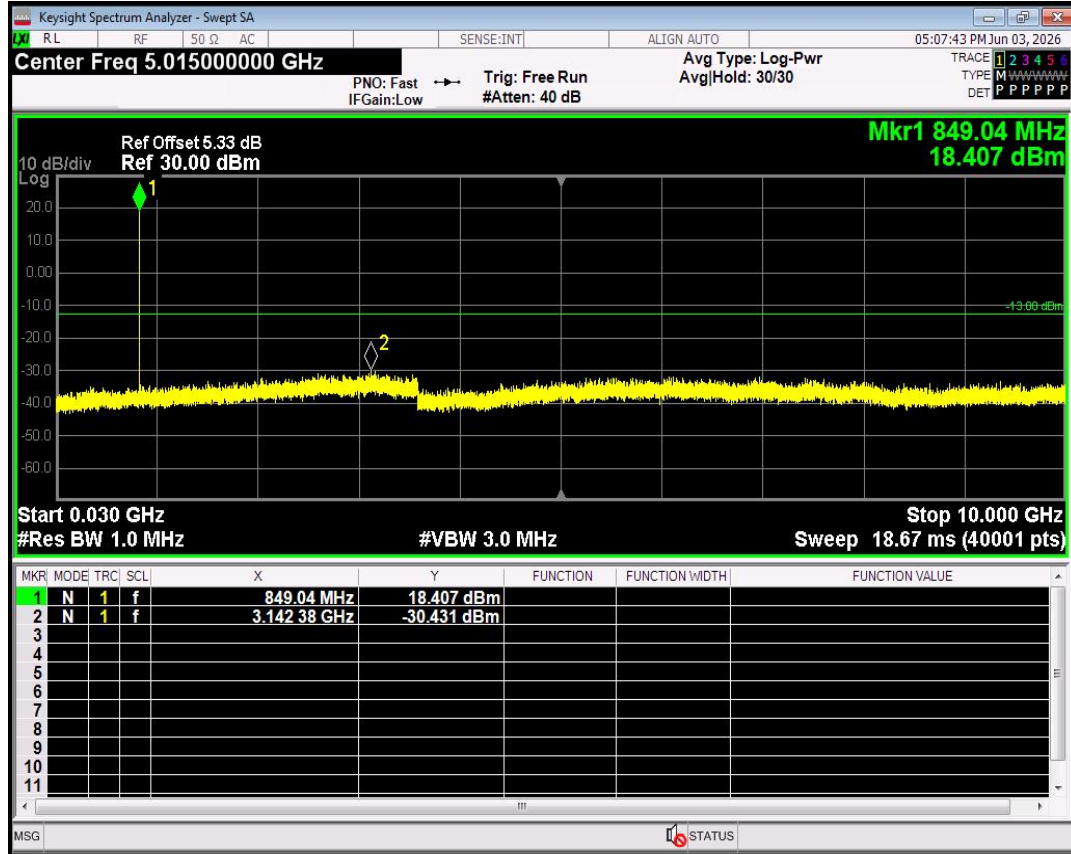
<i>Condition</i>	<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
NVNT	GPRS850	128	824.2	3148.62	-29.56	-13	PASS
NVNT	GPRS850	190	836.6	3204.95	-30.46	-13	PASS
NVNT	GPRS850	251	848.8	3142.38	-30.43	-13	PASS
NVNT	GPRS1900	512	1850.2	16524.22	-26.63	-13	PASS
NVNT	GPRS1900	661	1880	19176.24	-26.20	-13	PASS
NVNT	GPRS1900	810	1909.8	18981.53	-26.34	-13	PASS



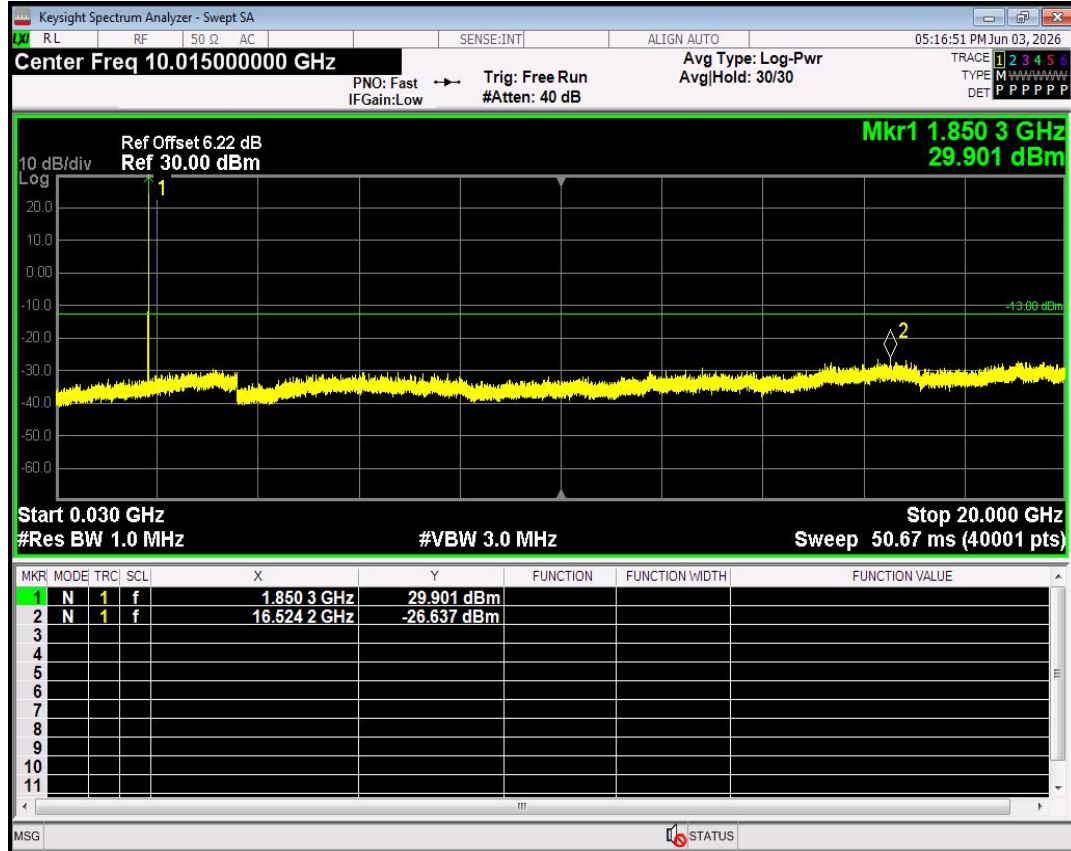
GPRS850 Channel=128 NVNT



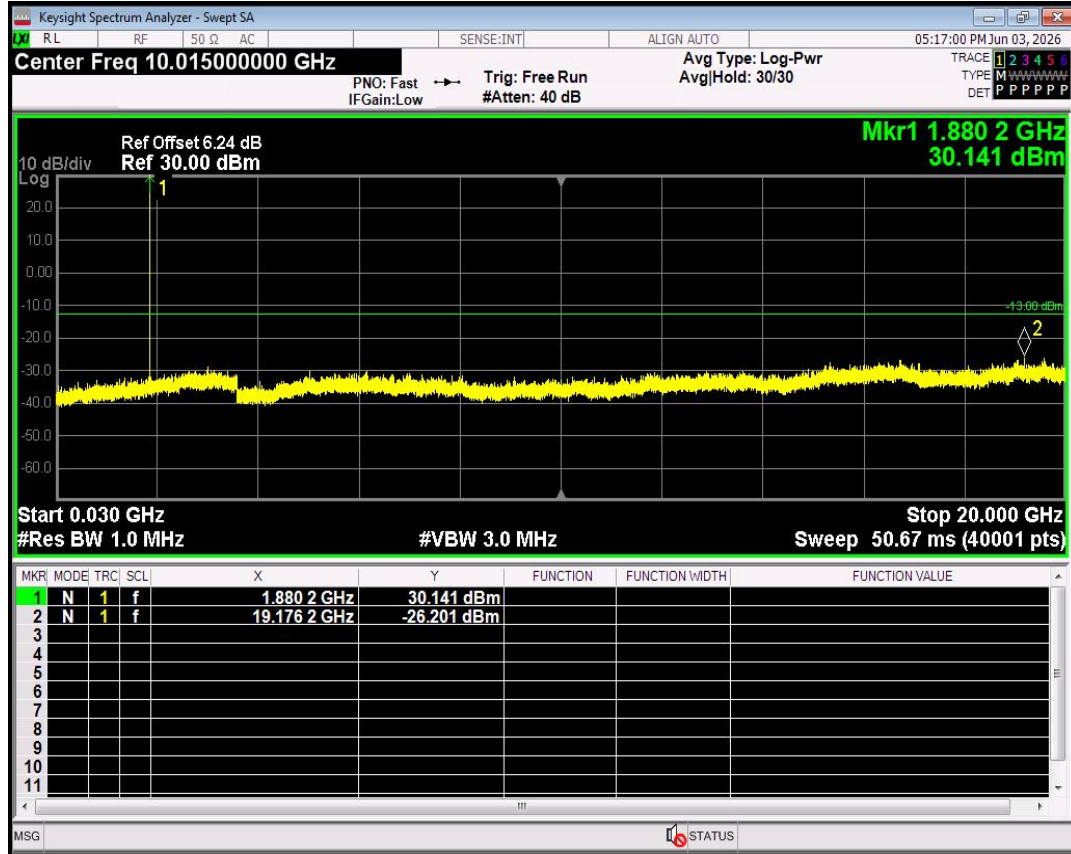
GPRS850 Channel=190 NVNT



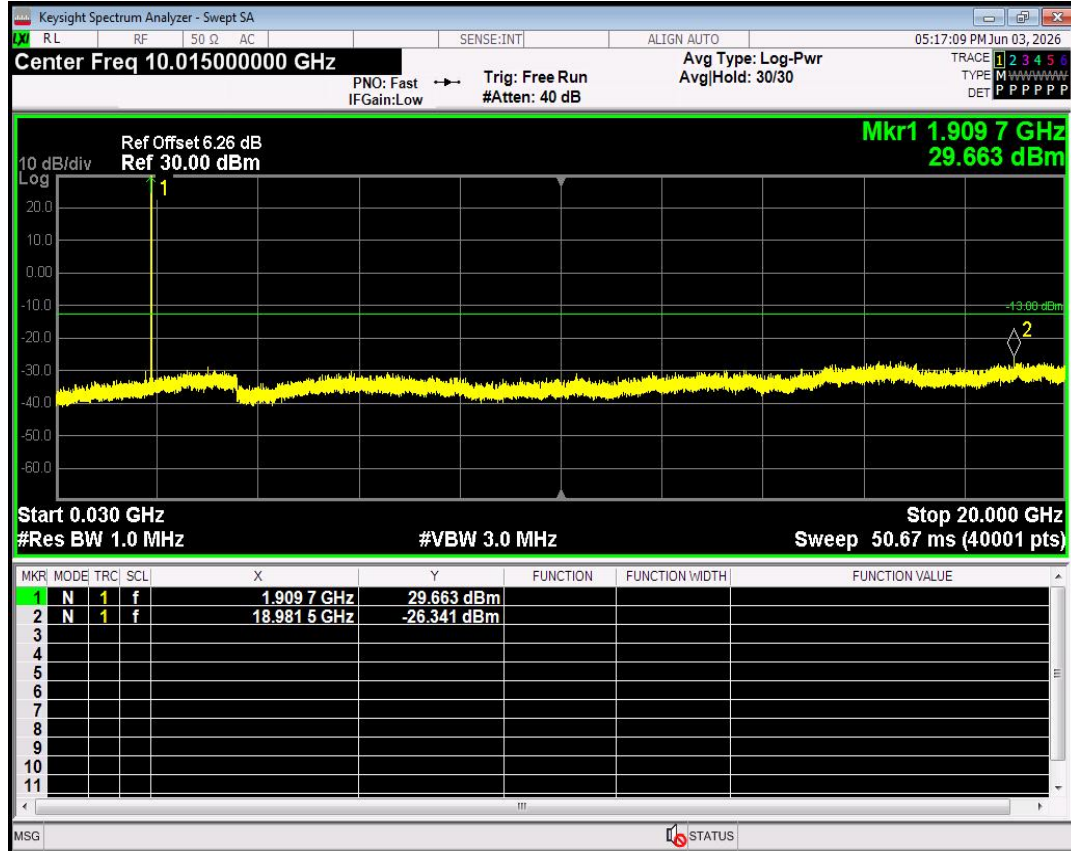
GPRS850 Channel=251 NVNT



GPRS1900 Channel=512 NVNT



GPRS1900 Channel=661 NVNT



GPRS1900 Channel=810 NVNT