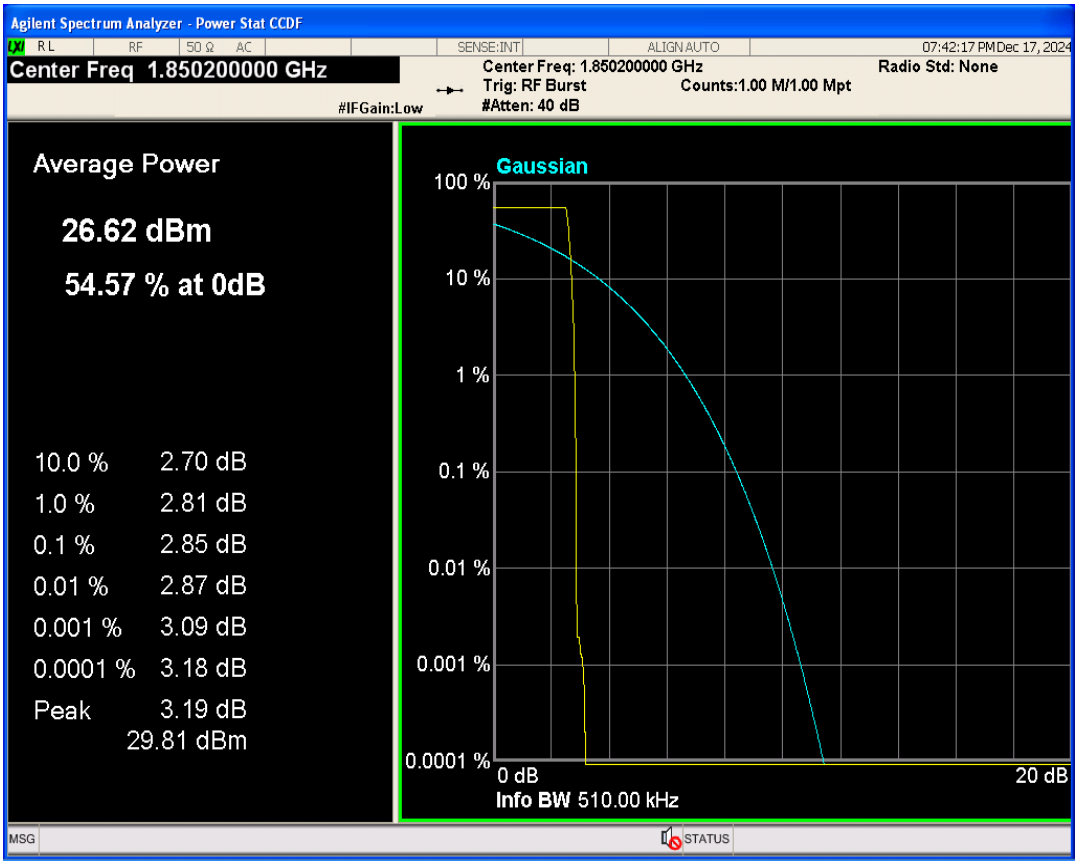
01 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
GPRS1900 1 Slot	512	1850.2	29.38	PASS
GPRS1900 1 Slot	661	1880	28.85	PASS
GPRS1900 1 Slot	810	1909.8	28.37	PASS
GPRS1900 2 Slot	512	1850.2	27.10	PASS
GPRS1900 2 Slot	661	1880	26.48	PASS
GPRS1900 2 Slot	810	1909.8	25.75	PASS
GPRS1900 3 Slot	512	1850.2	25.50	PASS
GPRS1900 3 Slot	661	1880	25.00	PASS
GPRS1900 3 Slot	810	1909.8	24.19	PASS
GPRS1900 4 Slot	512	1850.2	23.55	PASS
GPRS1900 4 Slot	661	1880	22.84	PASS
GPRS1900 4 Slot	810	1909.8	22.06	PASS
GPRS850 1 Slot	128	824.2	32.74	PASS
GPRS850 1 Slot	189	836.4	32.74	PASS
GPRS850 1 Slot	251	848.8	32.67	PASS
GPRS850 2 Slot	128	824.2	30.56	PASS
GPRS850 2 Slot	189	836.4	30.43	PASS
GPRS850 2 Slot	251	848.8	30.30	PASS
GPRS850 3 Slot	128	824.2	28.53	PASS
GPRS850 3 Slot	189	836.4	28.40	PASS
GPRS850 3 Slot	251	848.8	28.25	PASS
GPRS850 4 Slot	128	824.2	26.19	PASS
GPRS850 4 Slot	189	836.4	26.16	PASS
GPRS850 4 Slot	251	848.8	25.91	PASS
GSM1900	512	1850.2	29.52	PASS
GSM1900	661	1880	28.96	PASS
GSM1900	810	1909.8	28.50	PASS
GSM850	128	824.2	32.82	PASS
GSM850	189	836.4	32.81	PASS
GSM850	251	848.8	32.72	PASS

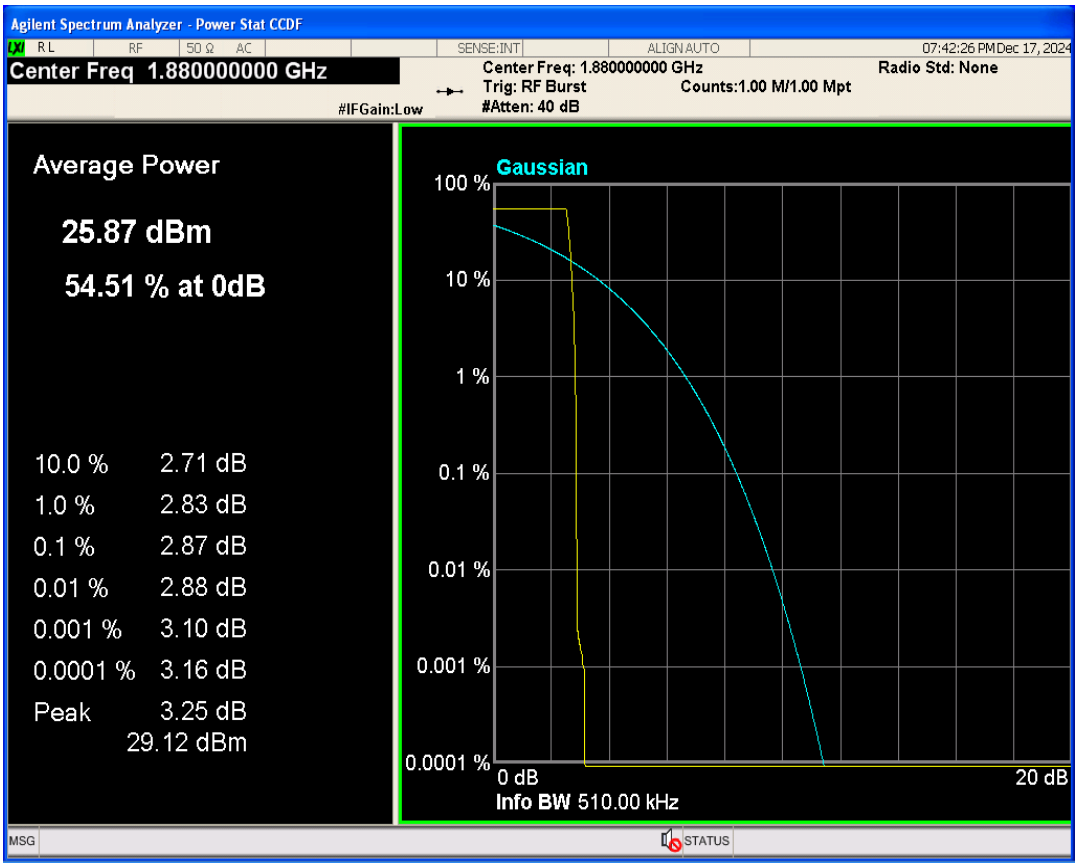
09 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS1900	512	1850.2	2.85	13	PASS
GPRS1900	661	1880	2.87	13	PASS
GPRS1900	810	1909.8	2.87	13	PASS
GPRS850	128	824.2	2.77	13	PASS
GPRS850	189	836.4	2.76	13	PASS
GPRS850	251	848.8	2.77	13	PASS

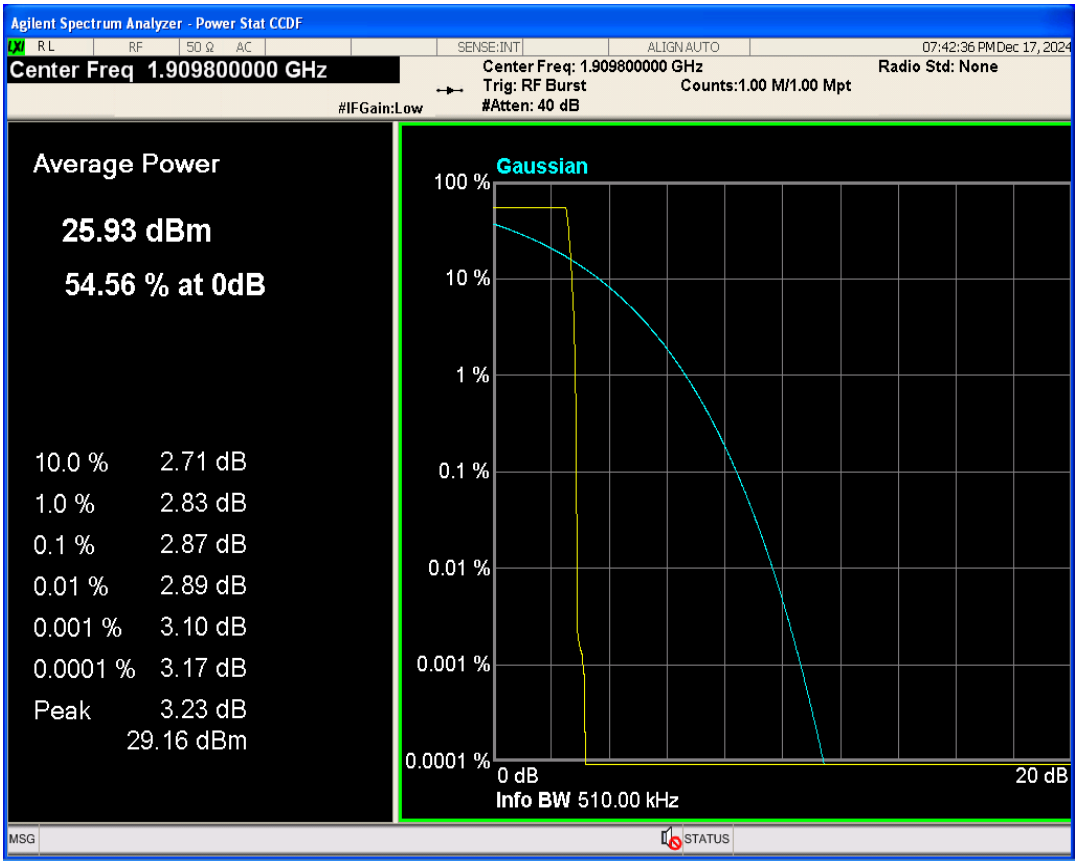
GPRS1900 Channel=512



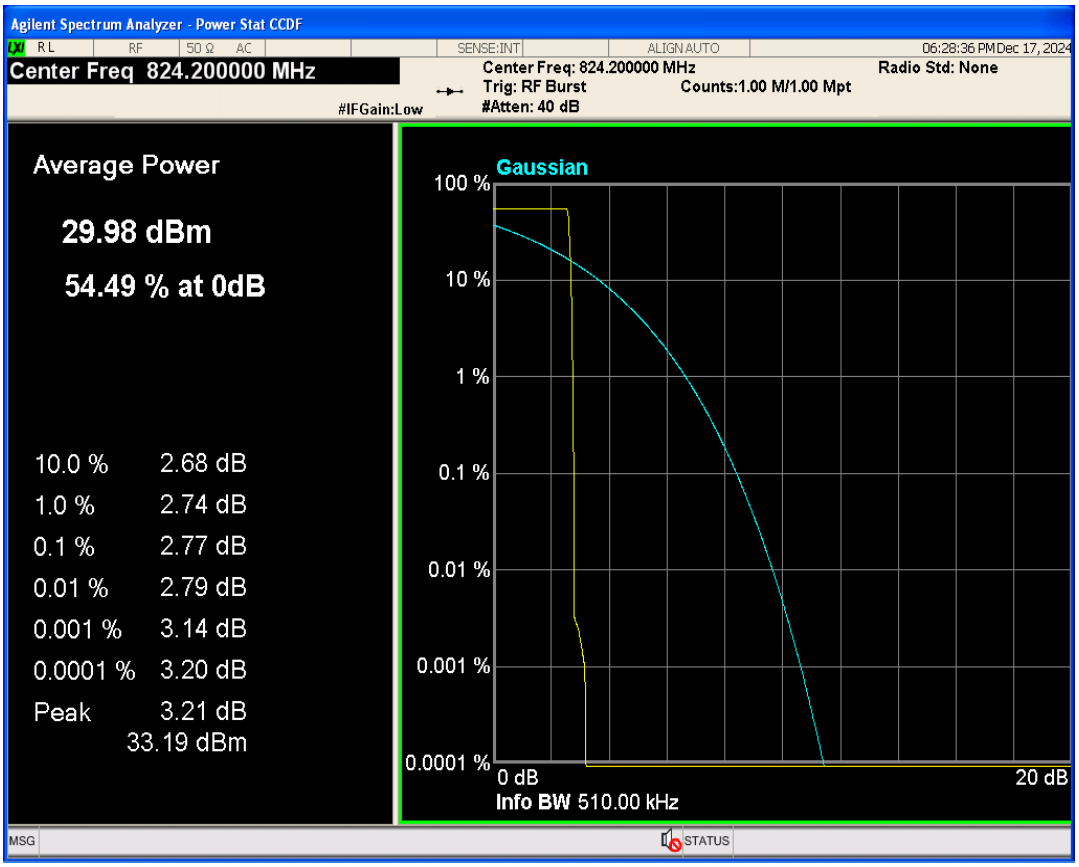
GPRS1900 Channel=661



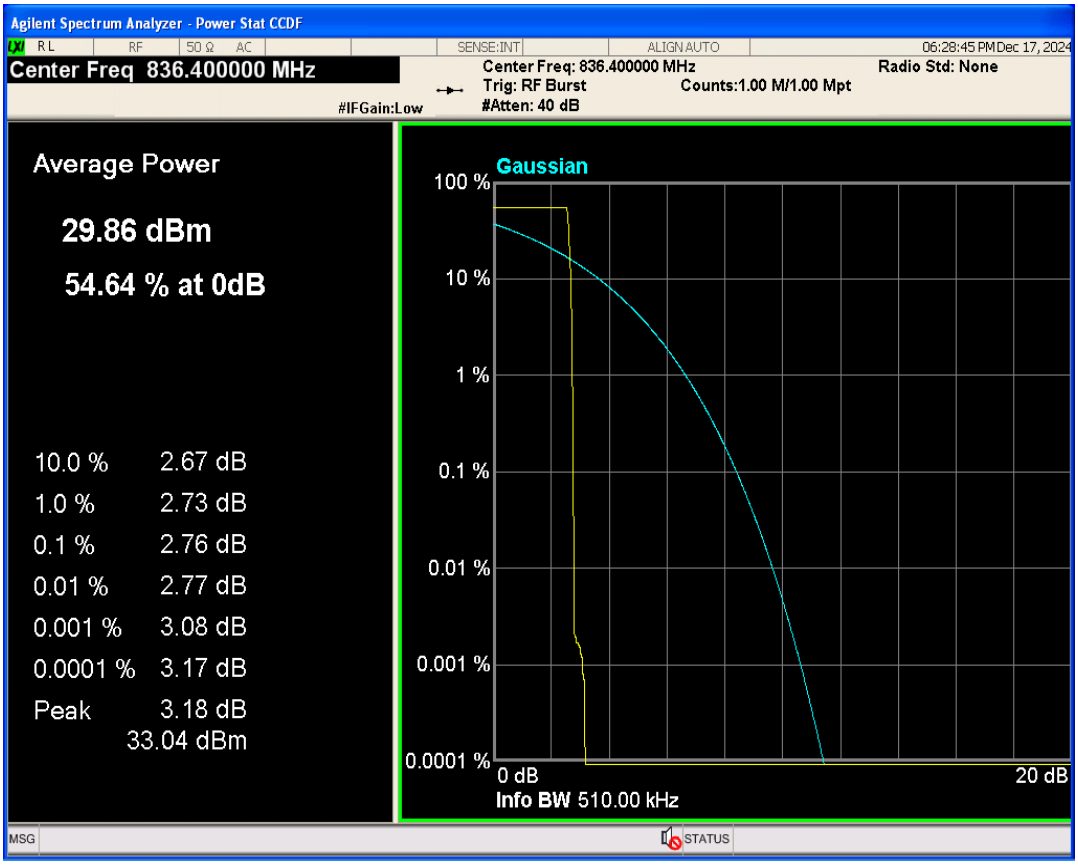
GPRS1900 Channel=810



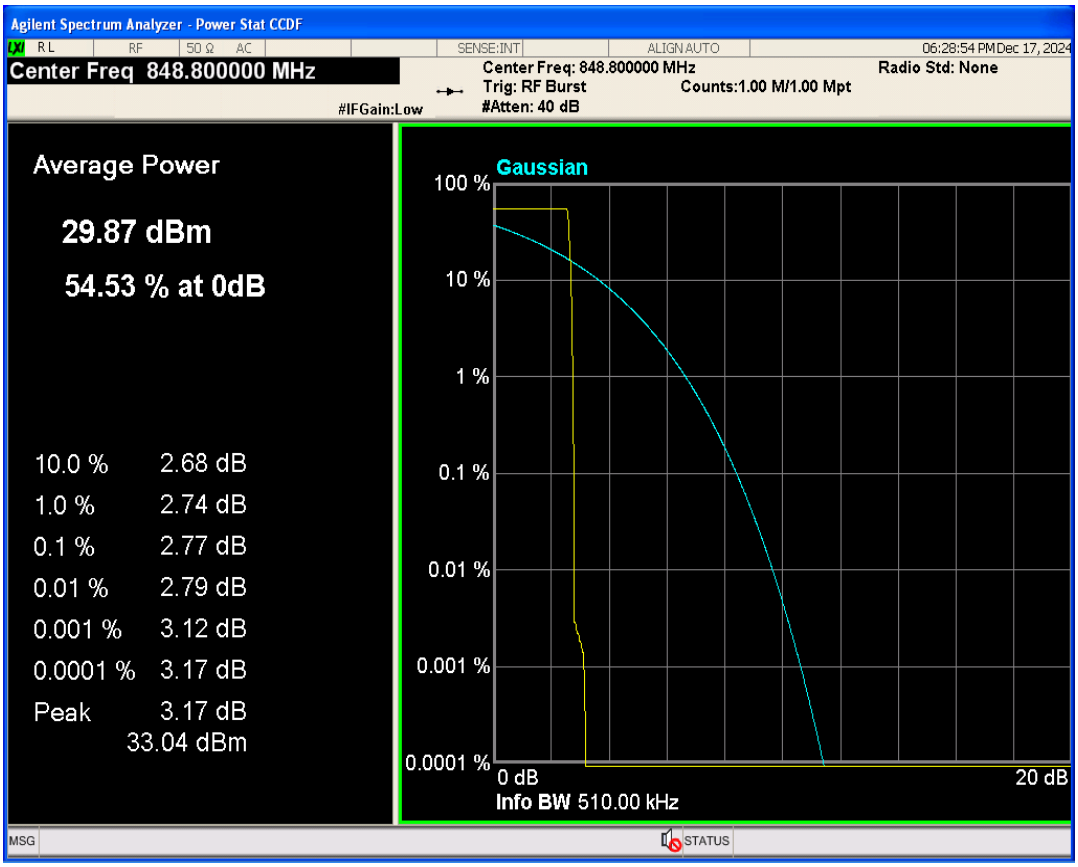
GPRS850 Channel=128



GPRS850 Channel=189



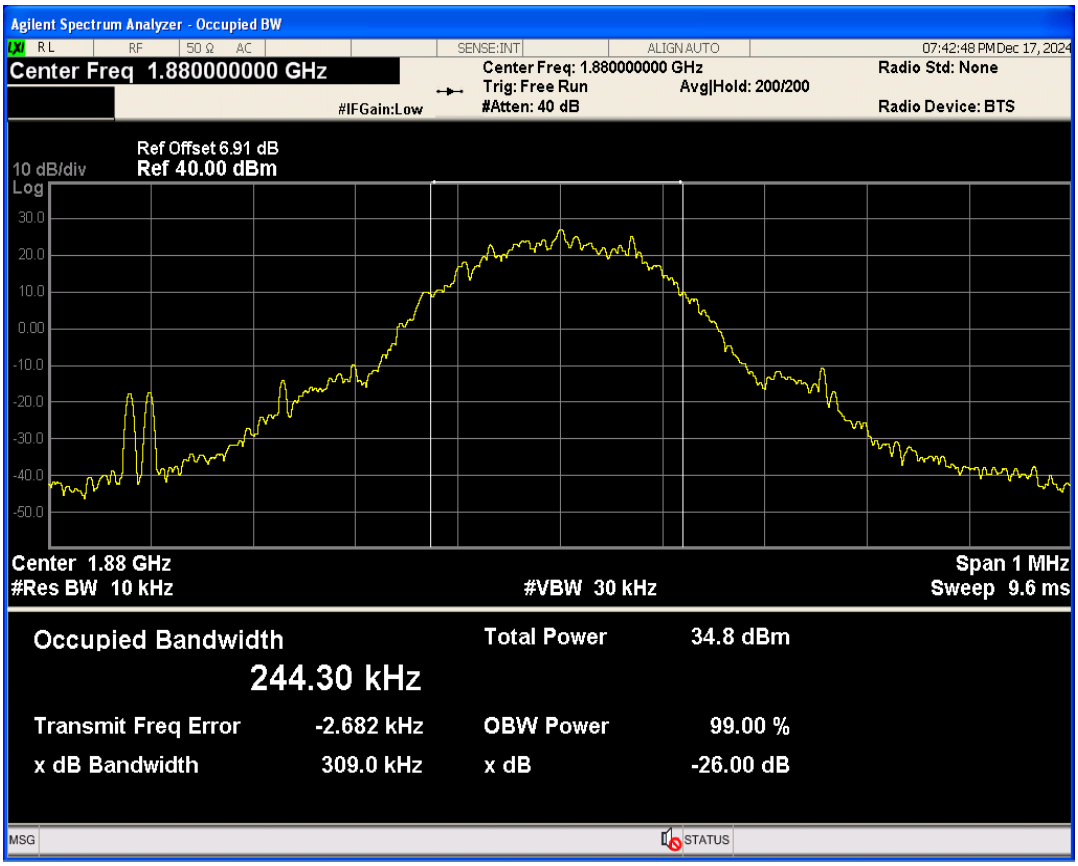
GPRS850 Channel=251



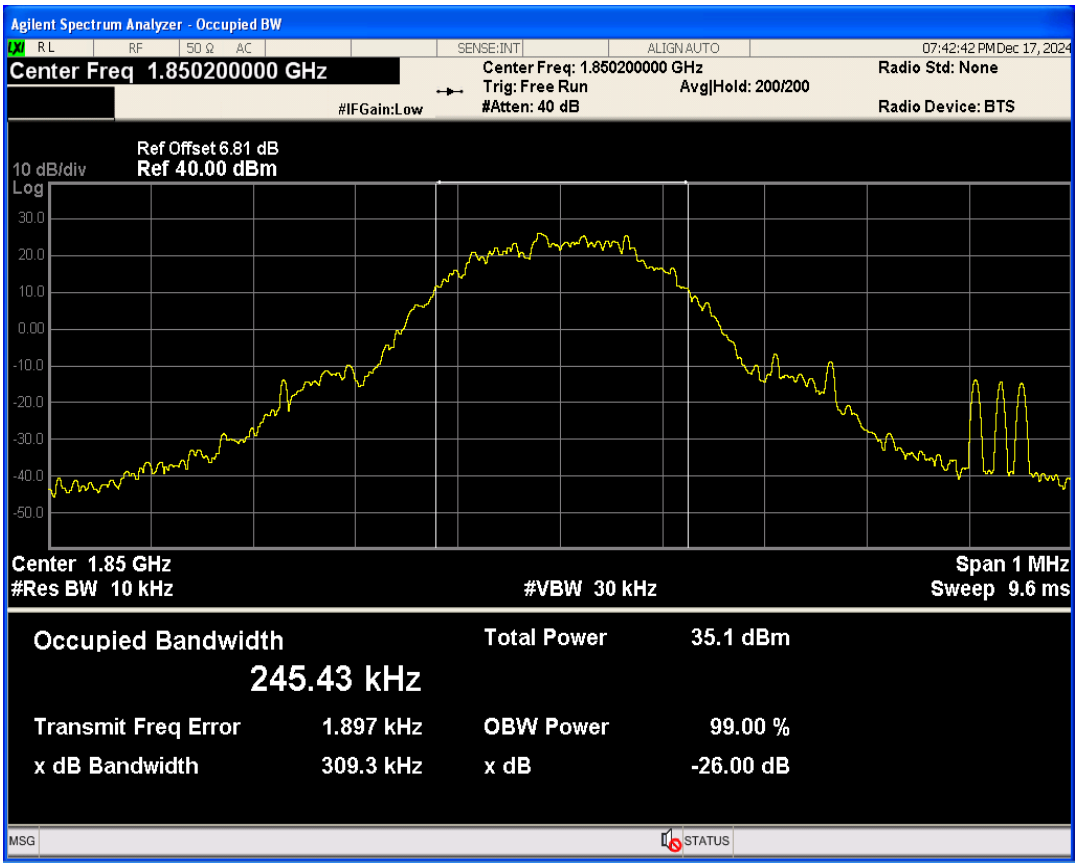
10 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS1900	512	1850.2	245.434	309.310	PASS
GPRS1900	661	1880	244.303	308.975	PASS
GPRS1900	810	1909.8	247.473	321.737	PASS
GPRS850	128	824.2	239.181	302.539	PASS
GPRS850	189	836.4	244.431	309.897	PASS
GPRS850	251	848.8	240.363	309.674	PASS

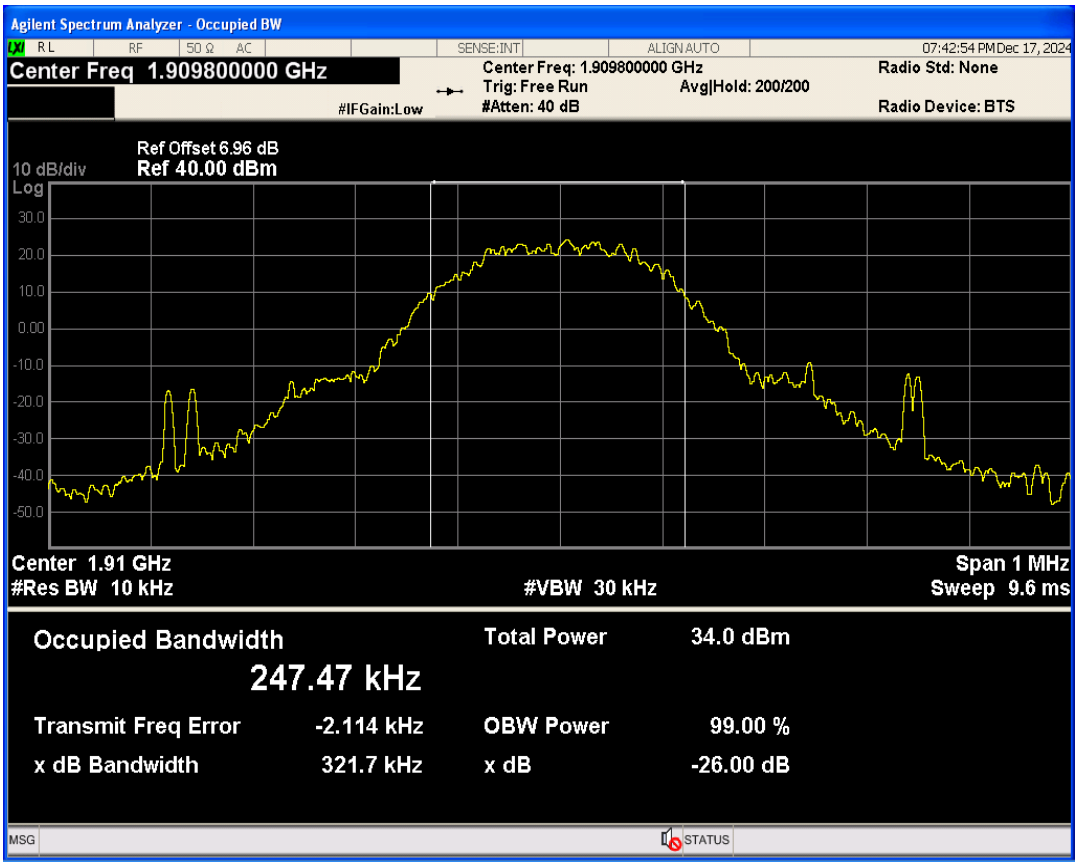
GPRS1900 Channel=661



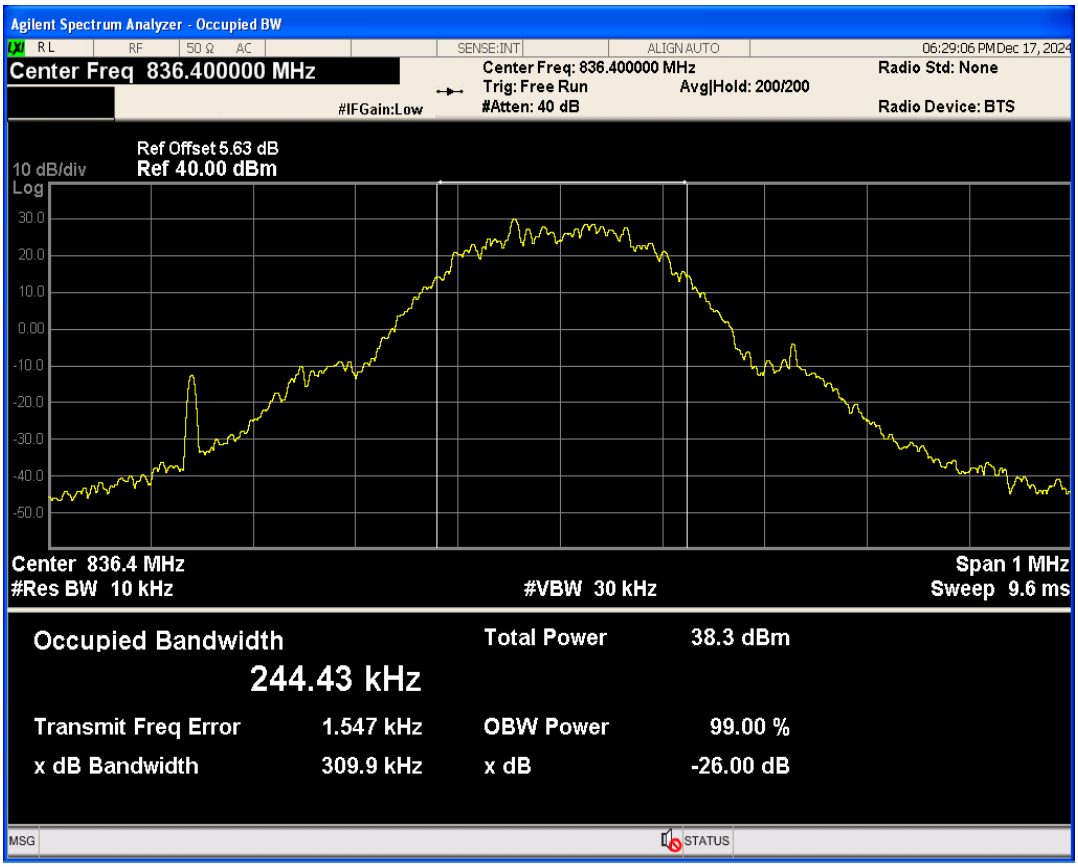
GPRS1900 Channel=512



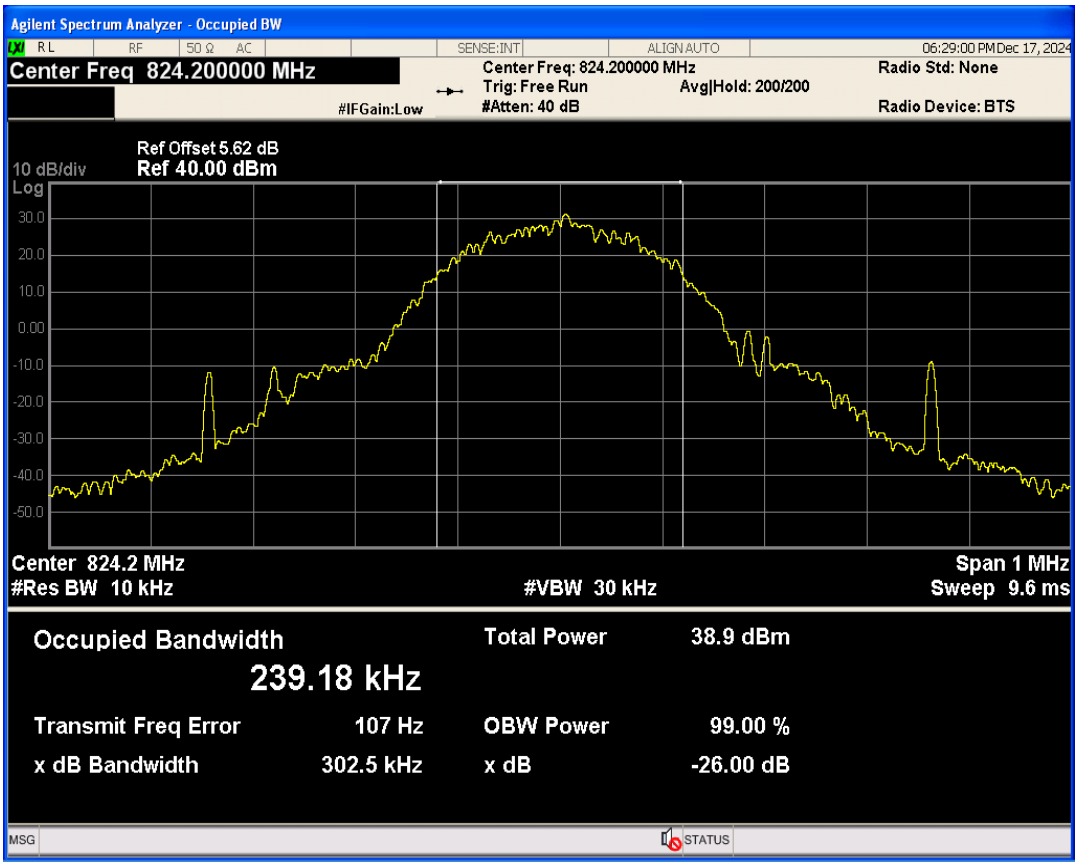
GPRS1900 Channel=810



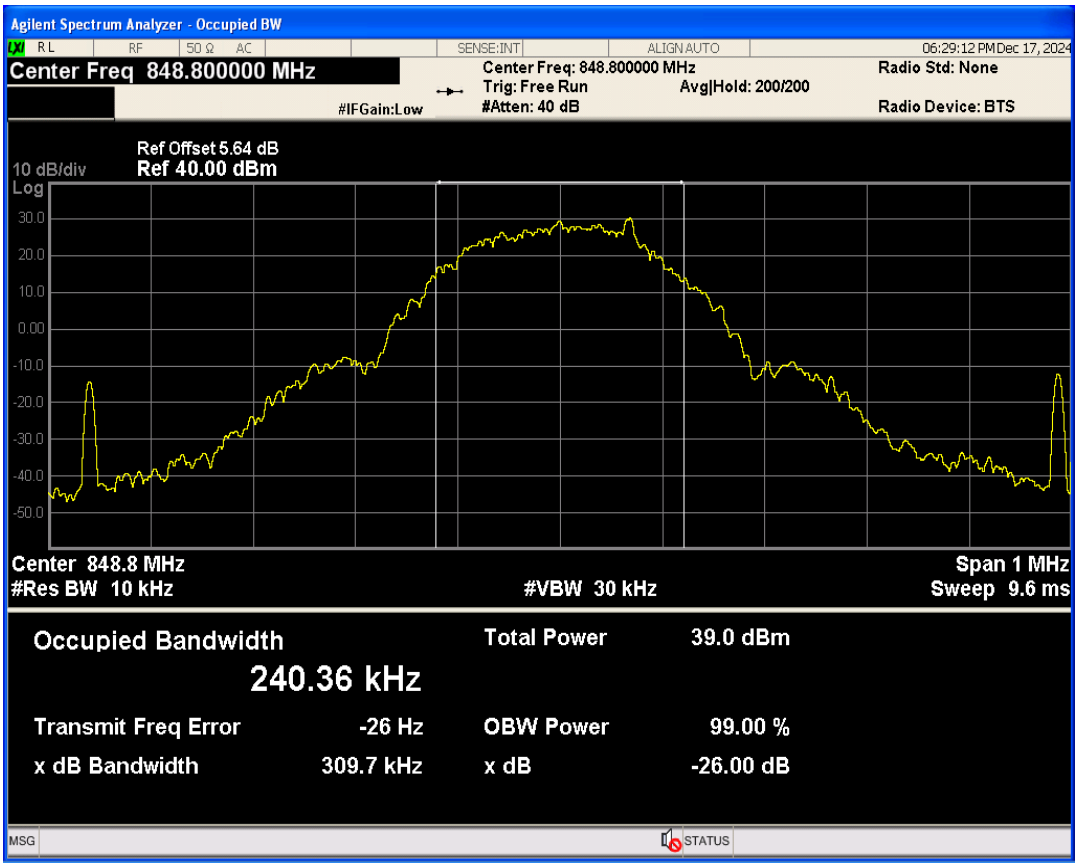
GPRS850 Channel=189



GPRS850 Channel=128



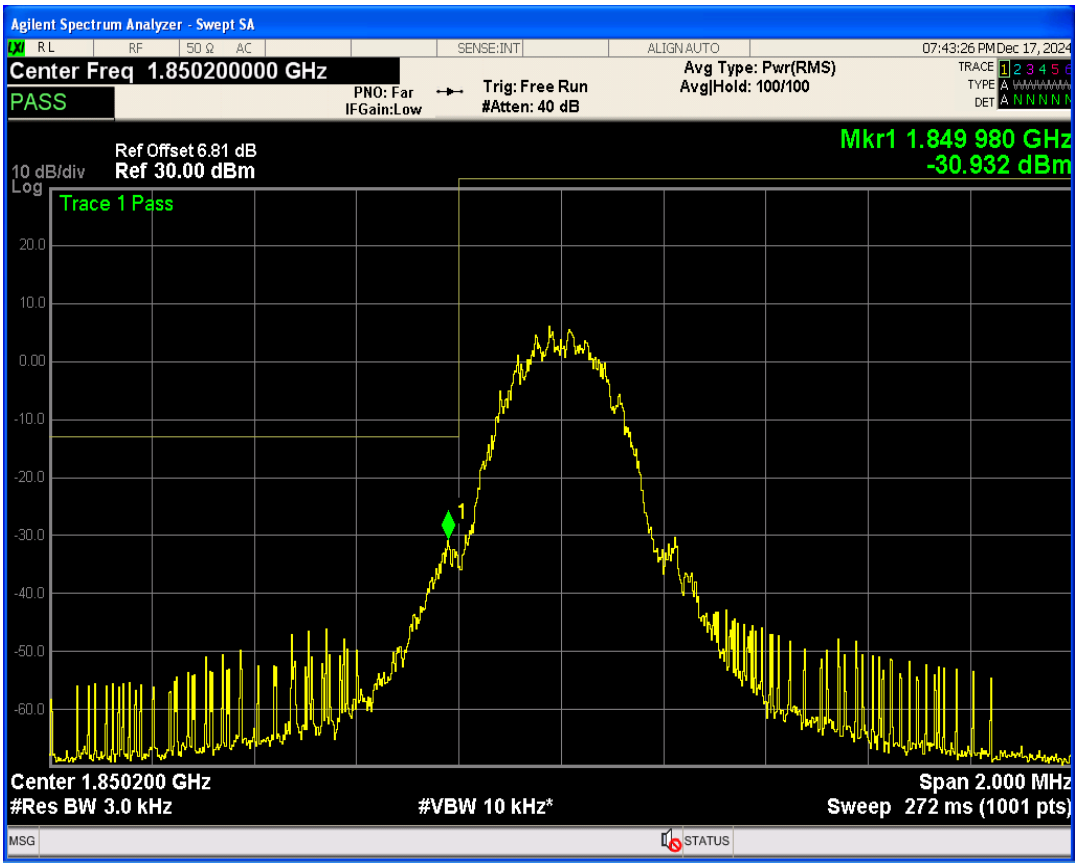
GPRS850 Channel=251



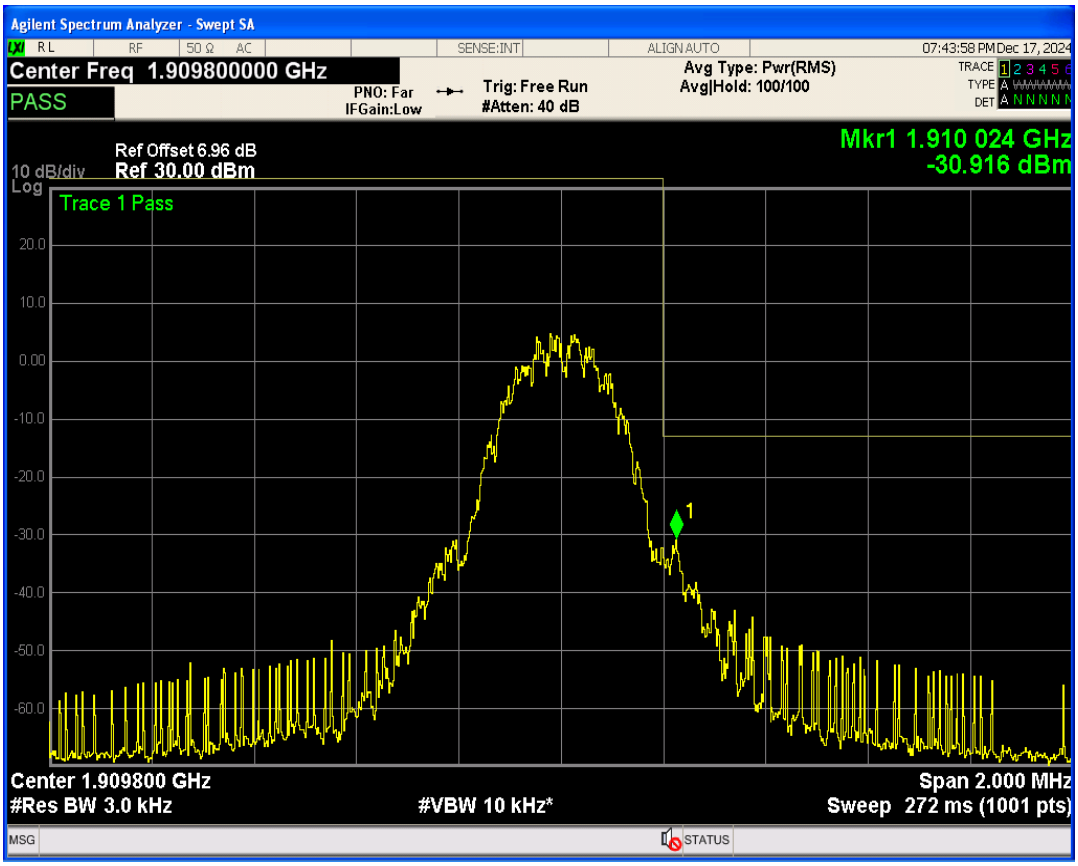
11 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	1849.98	-30.93	-13	PASS
GPRS1900	810	1909.8	1910.02	-30.91	-13	PASS
GPRS850	128	824.2	823.98	-28.25	-13	PASS
GPRS850	251	848.8	849.03	-27.39	-13	PASS

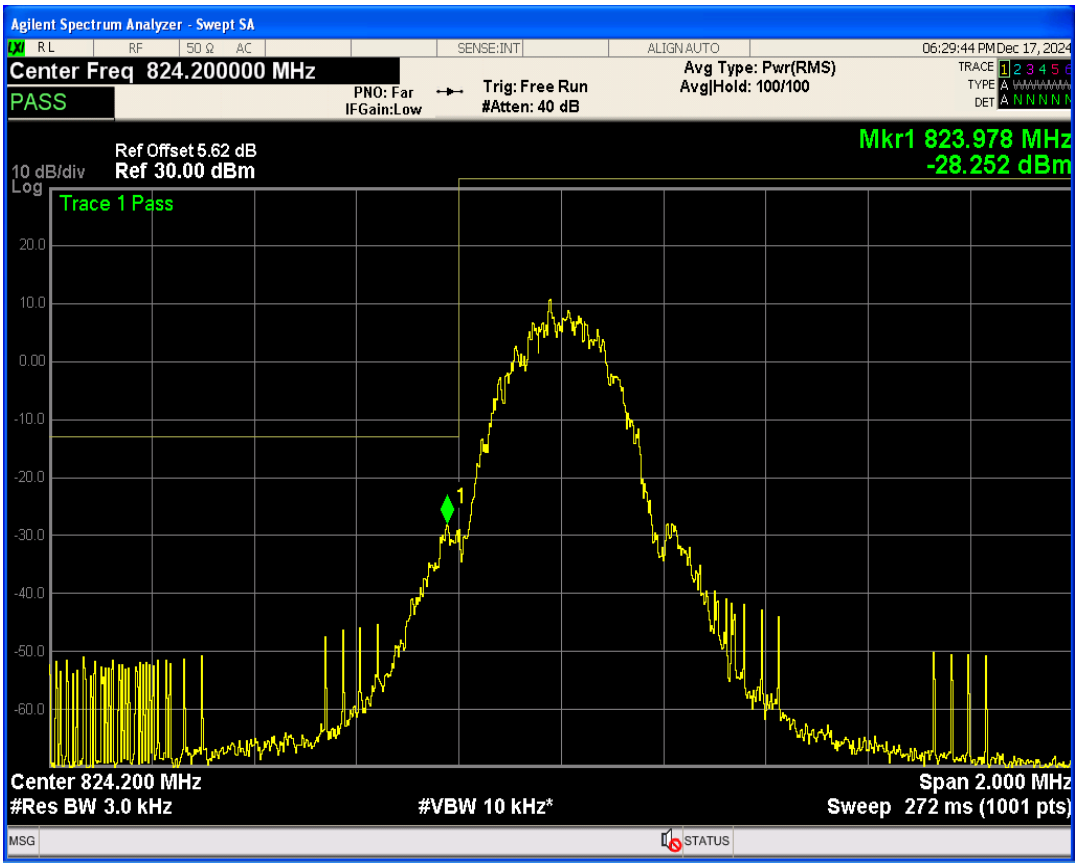
GPRS1900 Channel=512



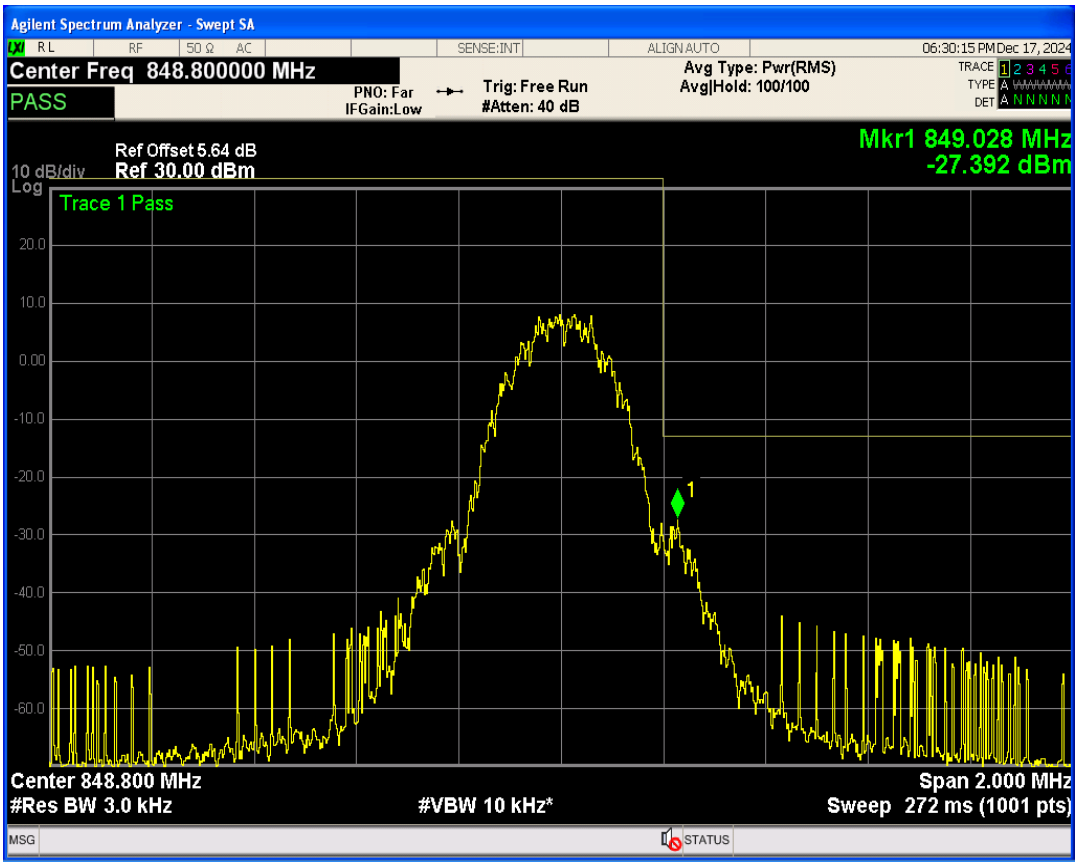
GPRS1900 Channel=810



GPRS850 Channel=128



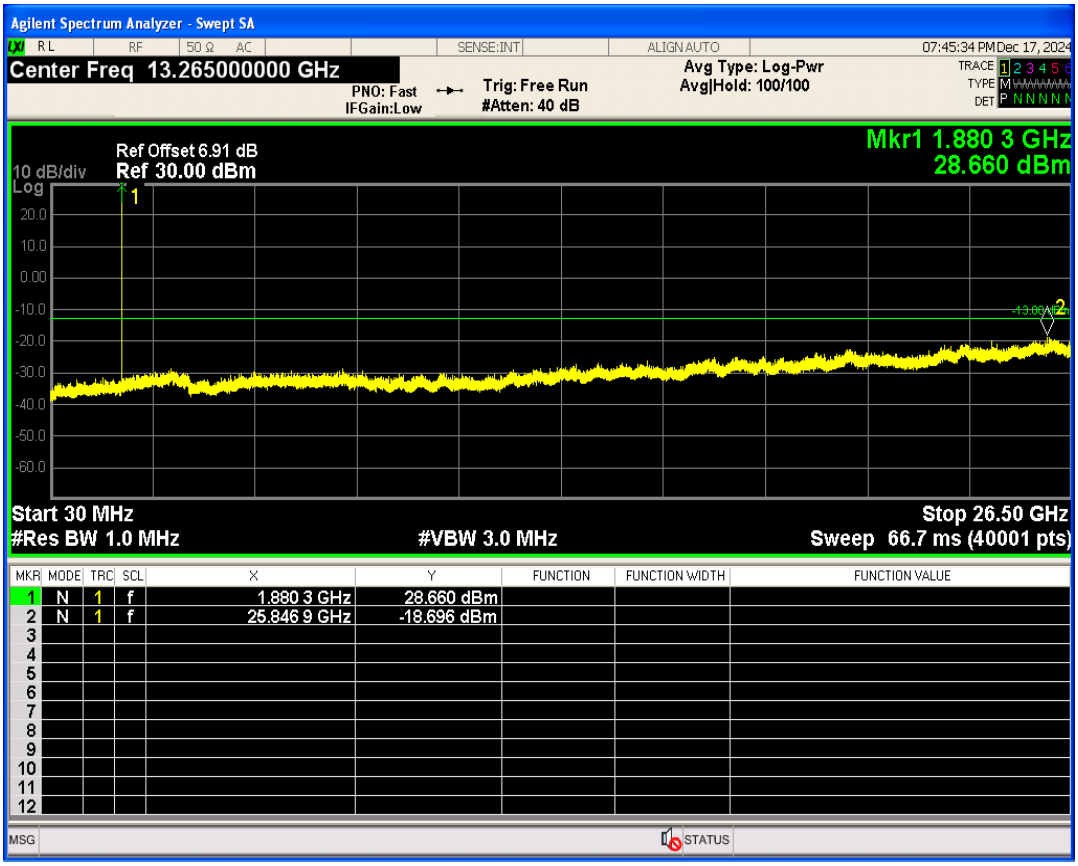
GPRS850 Channel=251



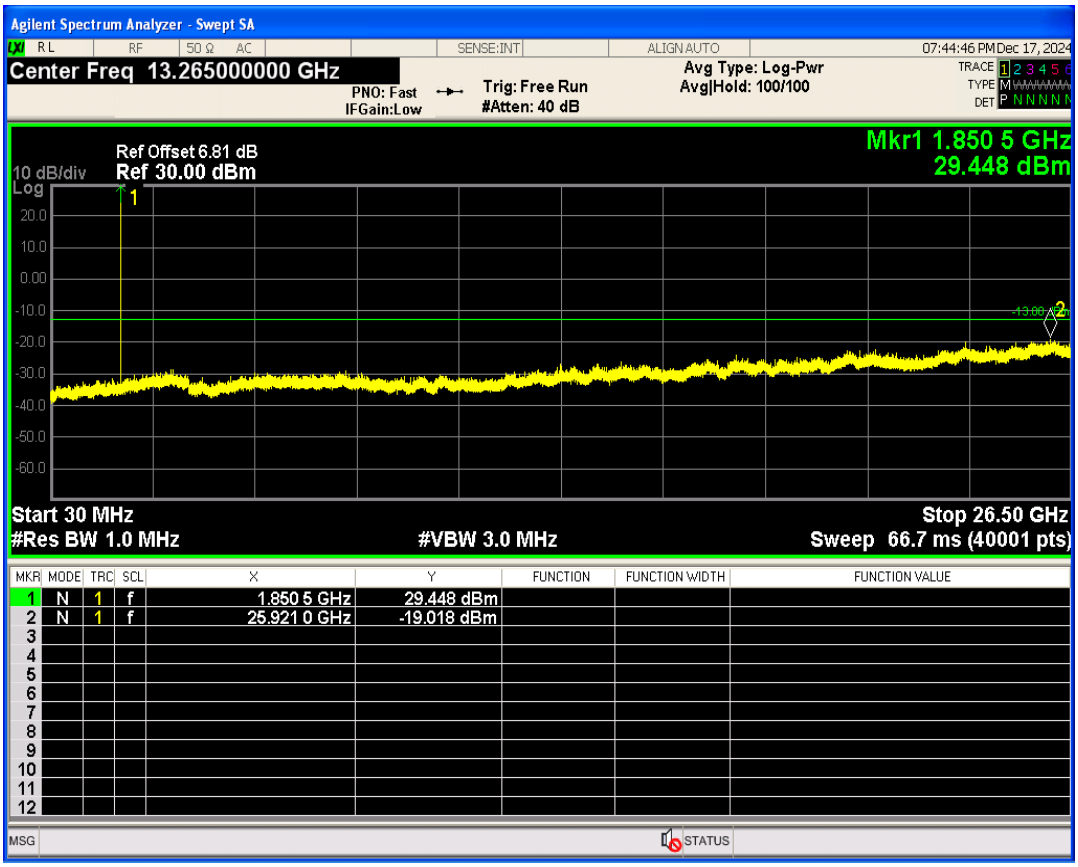
12 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	25920.97	-19.01	-13	PASS
GPRS1900	661	1880	25846.85	-18.69	-13	PASS
GPRS1900	810	1909.8	26040.08	-19.17	-13	PASS
GPRS850	128	824.2	26028.17	-20.59	-13	PASS
GPRS850	189	836.4	25982.51	-19.90	-13	PASS
GPRS850	251	848.8	26072.51	-20.41	-13	PASS

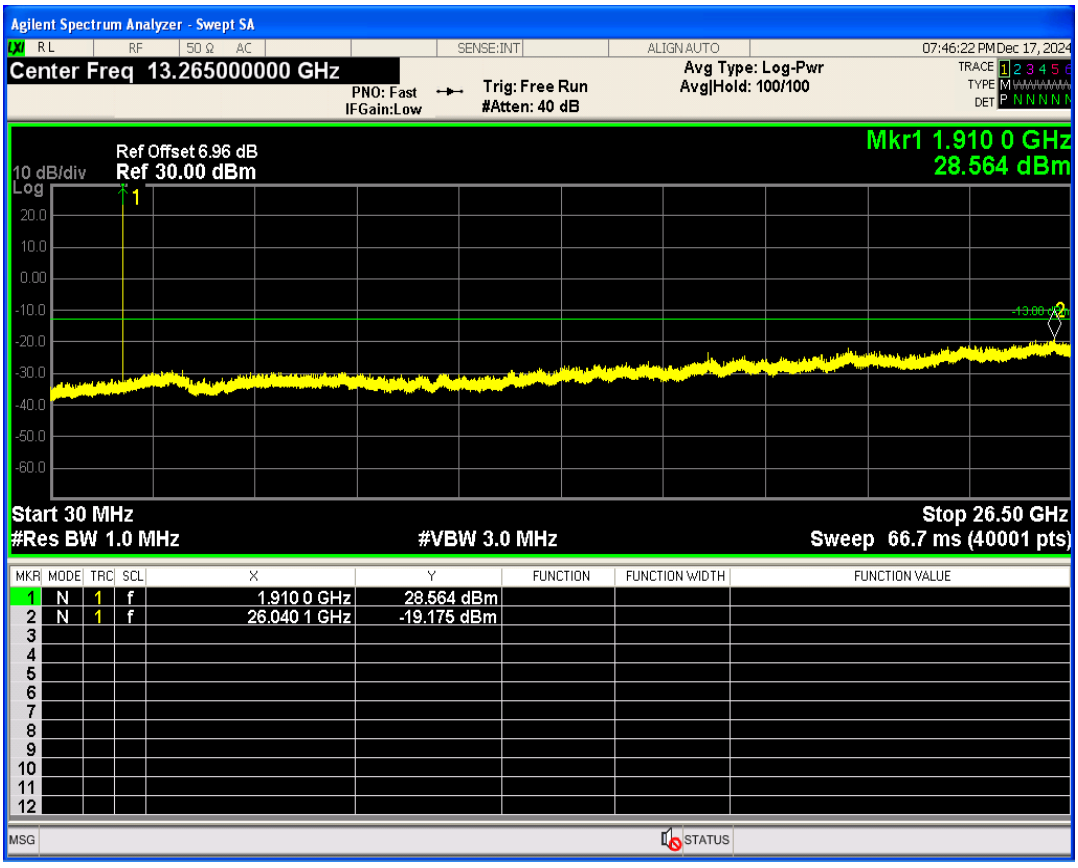
GPRS1900 Channel=661



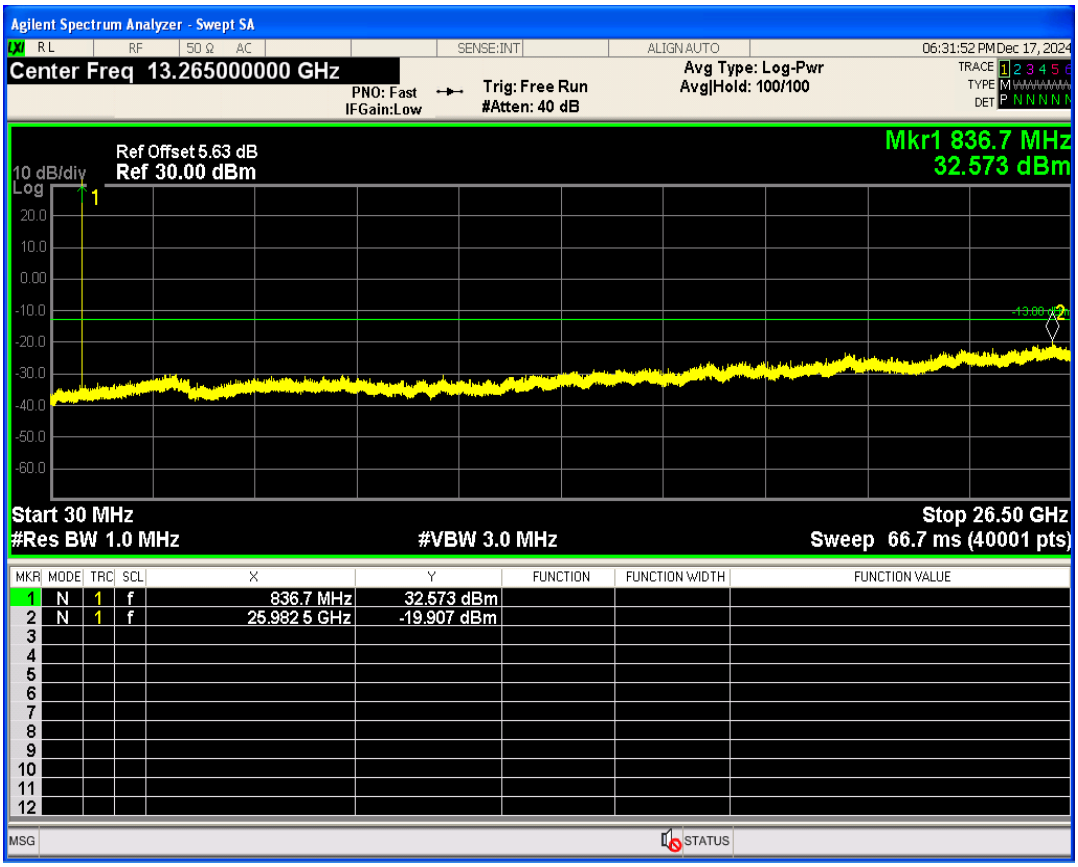
GPRS1900 Channel=512



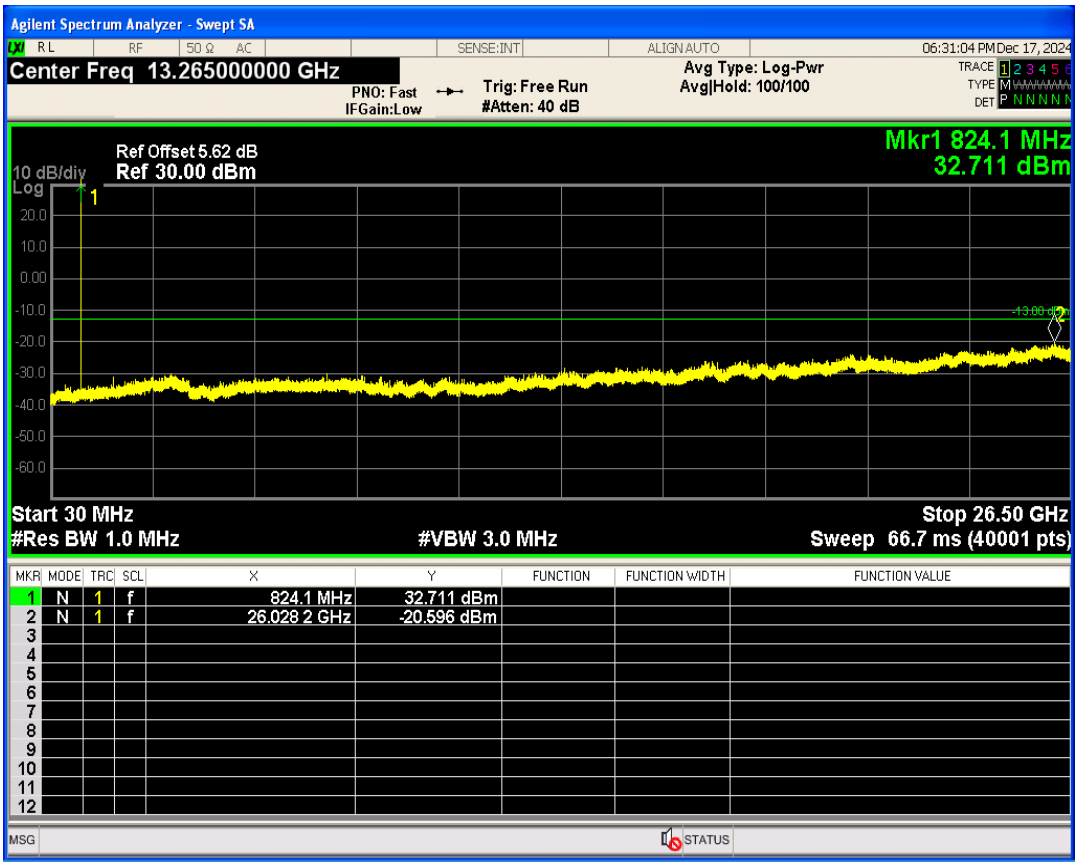
GPRS1900 Channel=810



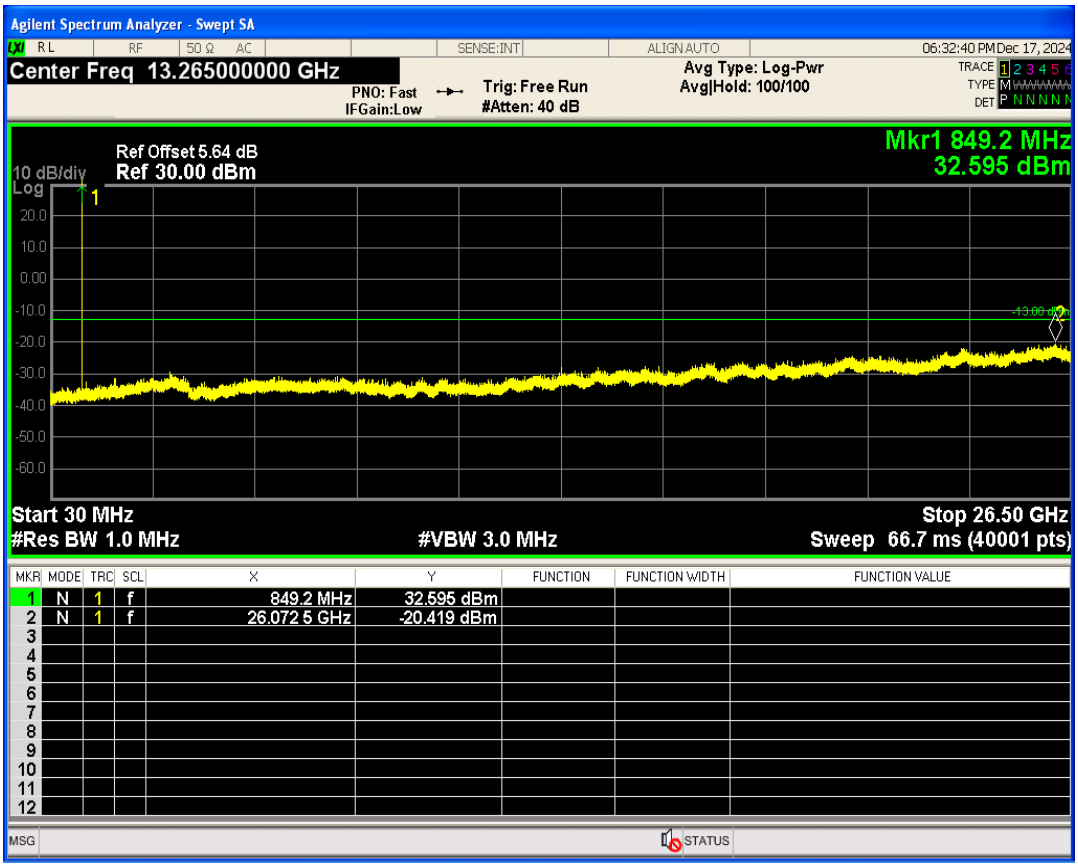
GPRS850 Channel=189



GPRS850 Channel=128



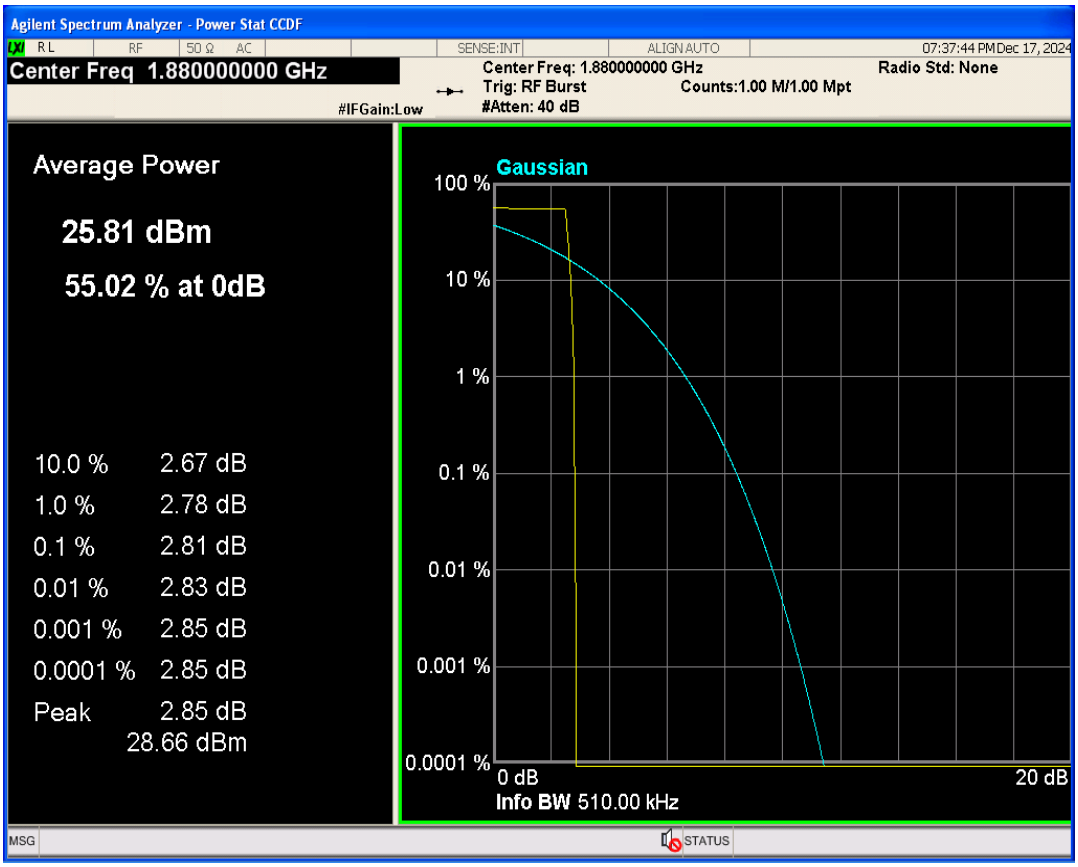
GPRS850 Channel=251



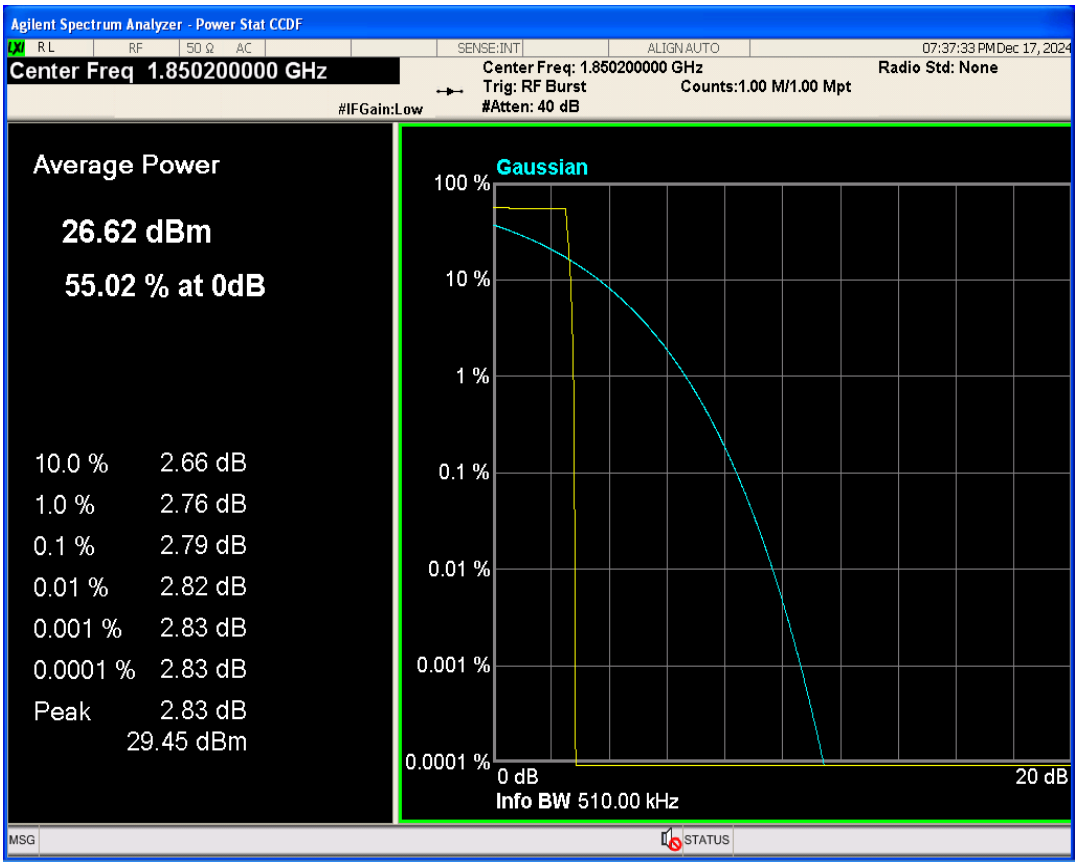
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM1900	512	1850.2	2.79	13	PASS
GSM1900	661	1880	2.81	13	PASS
GSM1900	810	1909.8	2.82	13	PASS
GSM850	128	824.2	2.72	13	PASS
GSM850	189	836.4	2.73	13	PASS
GSM850	251	848.8	2.72	13	PASS

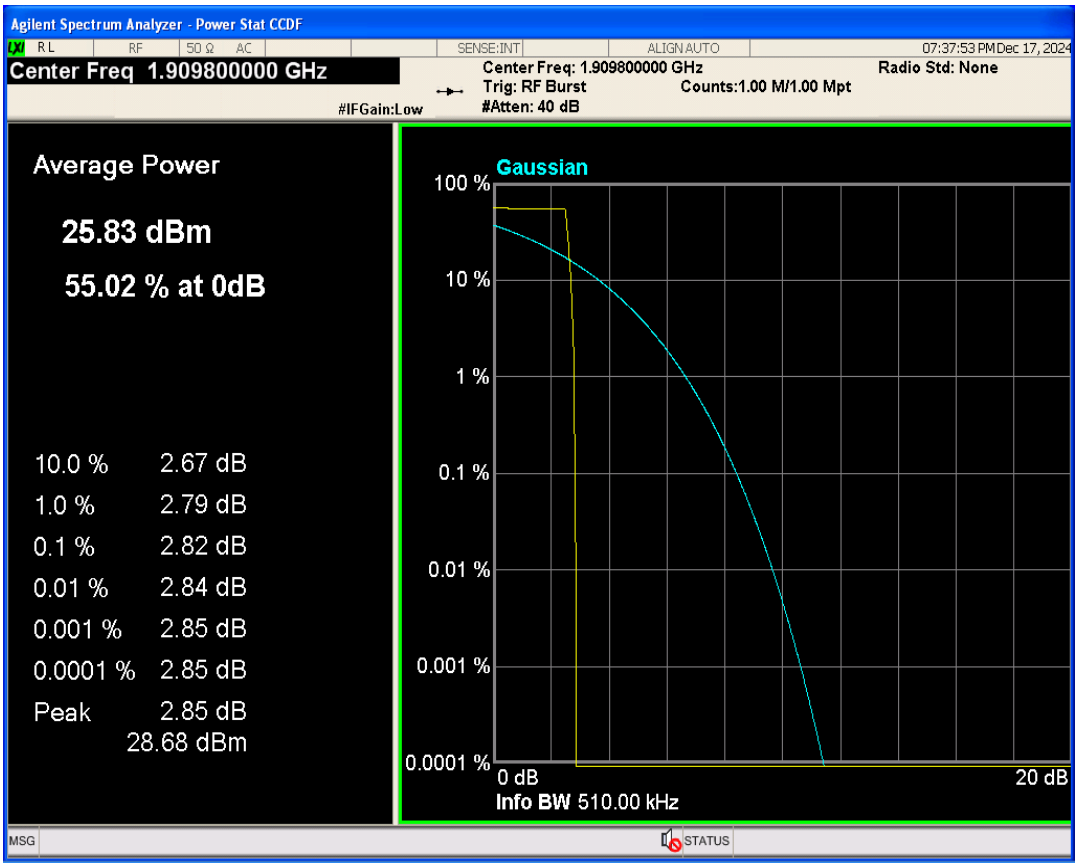
GSM1900 Channel=661



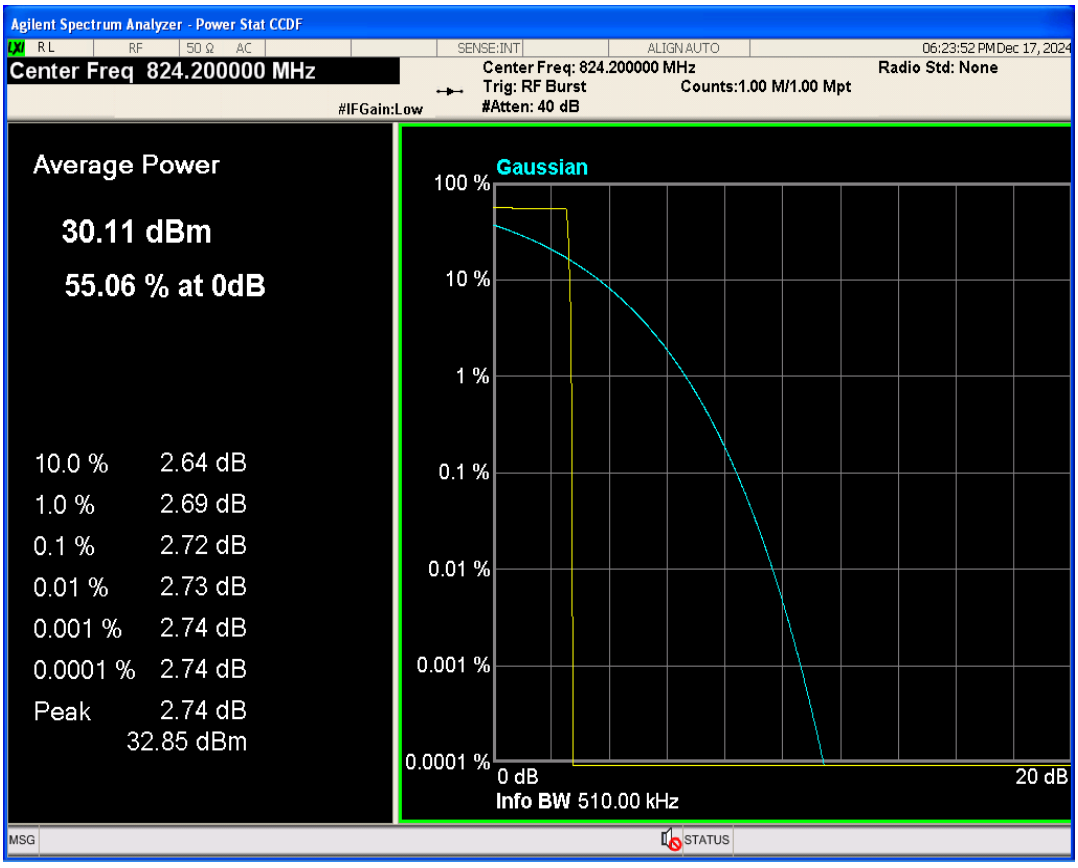
GSM1900 Channel=512



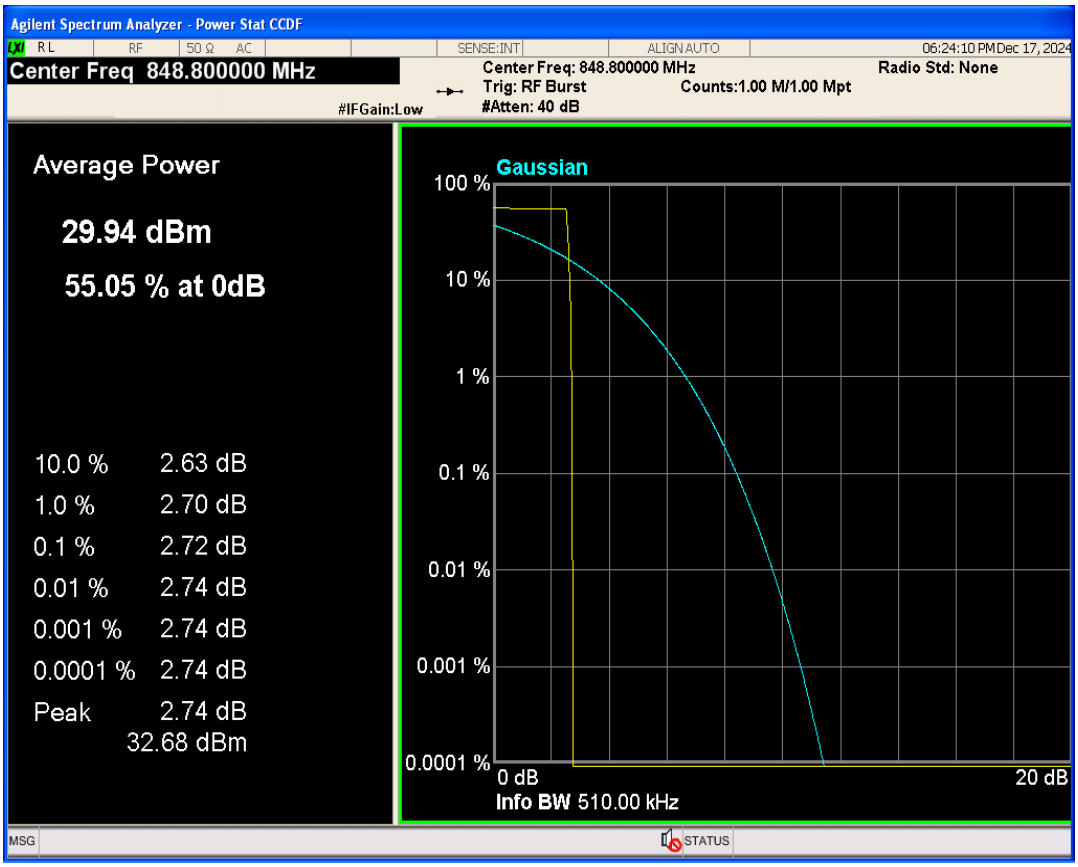
GSM1900 Channel=810



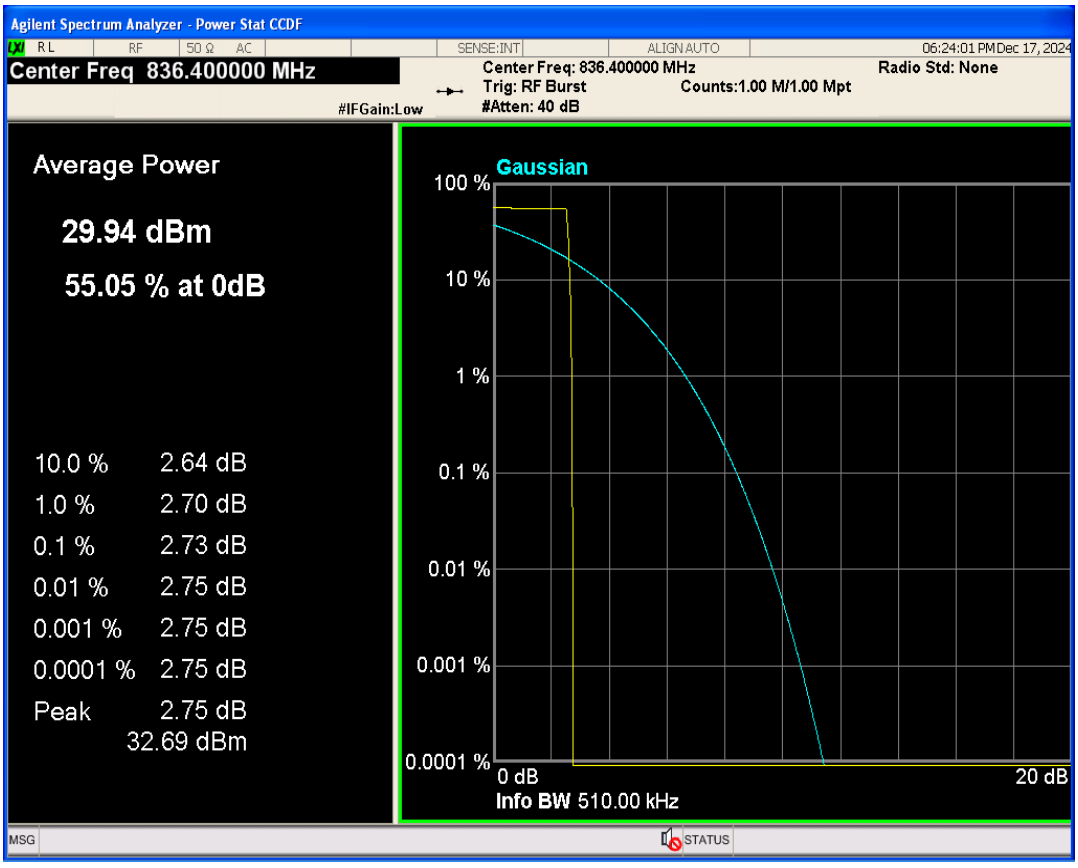
GSM850 Channel=128



GSM850 Channel=251



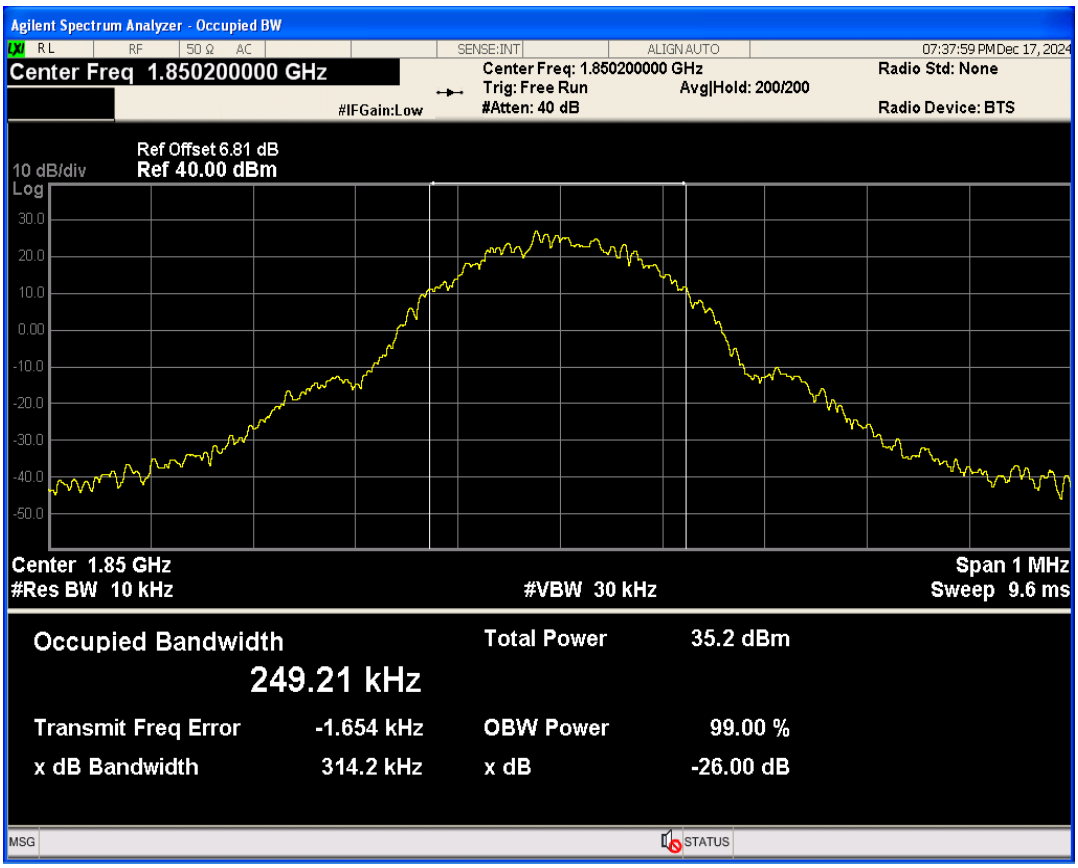
GSM850 Channel=189



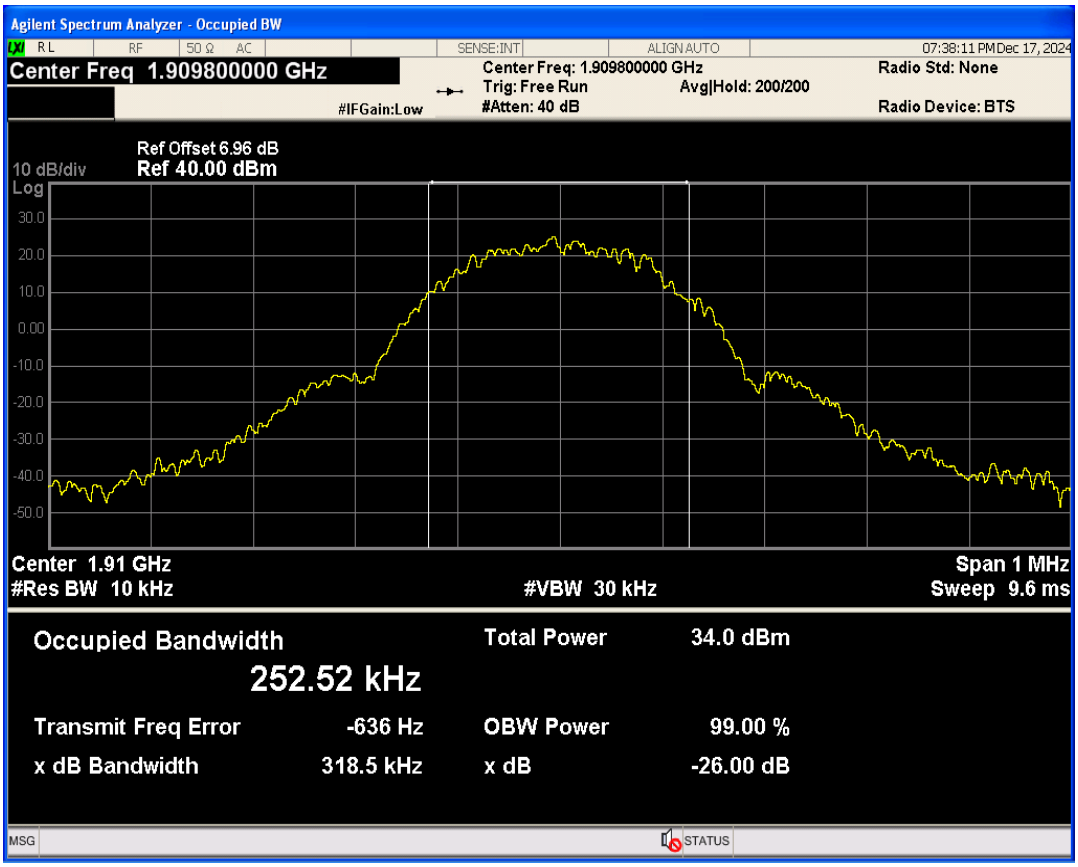
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM1900	512	1850.2	249.206	314.206	PASS
GSM1900	661	1880	252.211	318.173	PASS
GSM1900	810	1909.8	252.520	318.508	PASS
GSM850	128	824.2	241.405	308.270	PASS
GSM850	189	836.4	244.569	310.731	PASS
GSM850	251	848.8	245.904	320.876	PASS

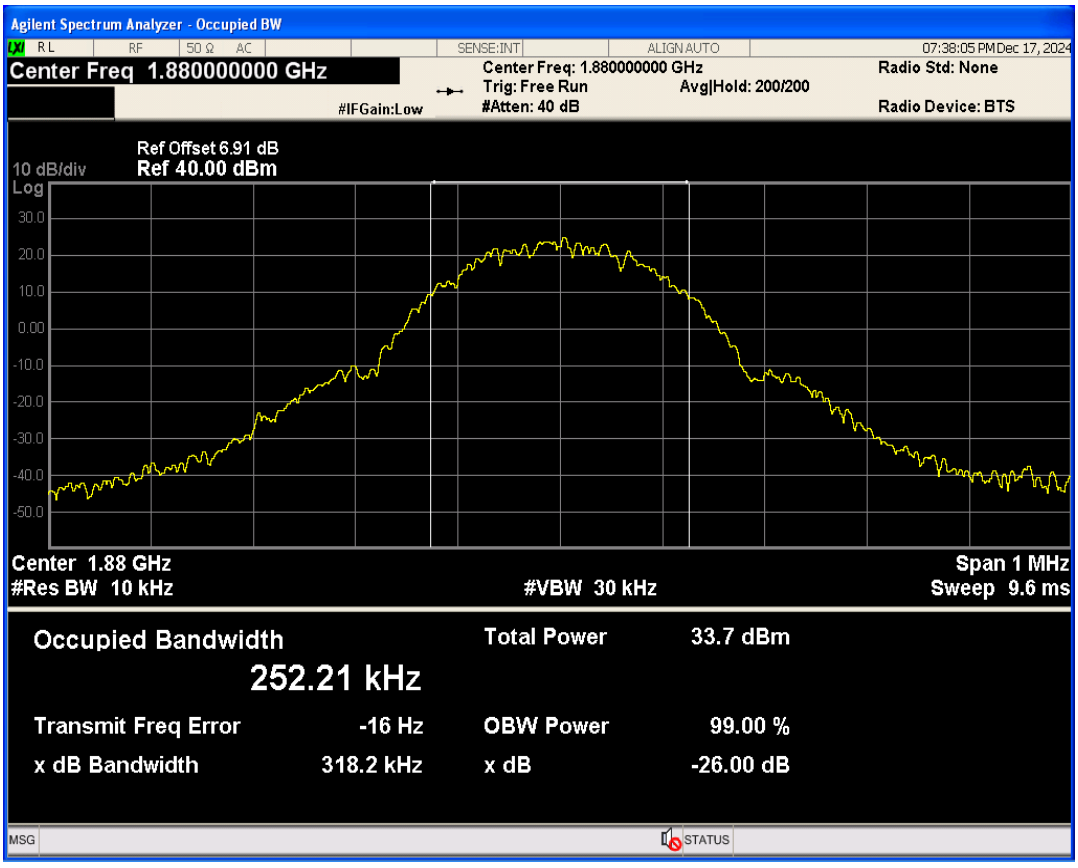
GSM1900 Channel=512



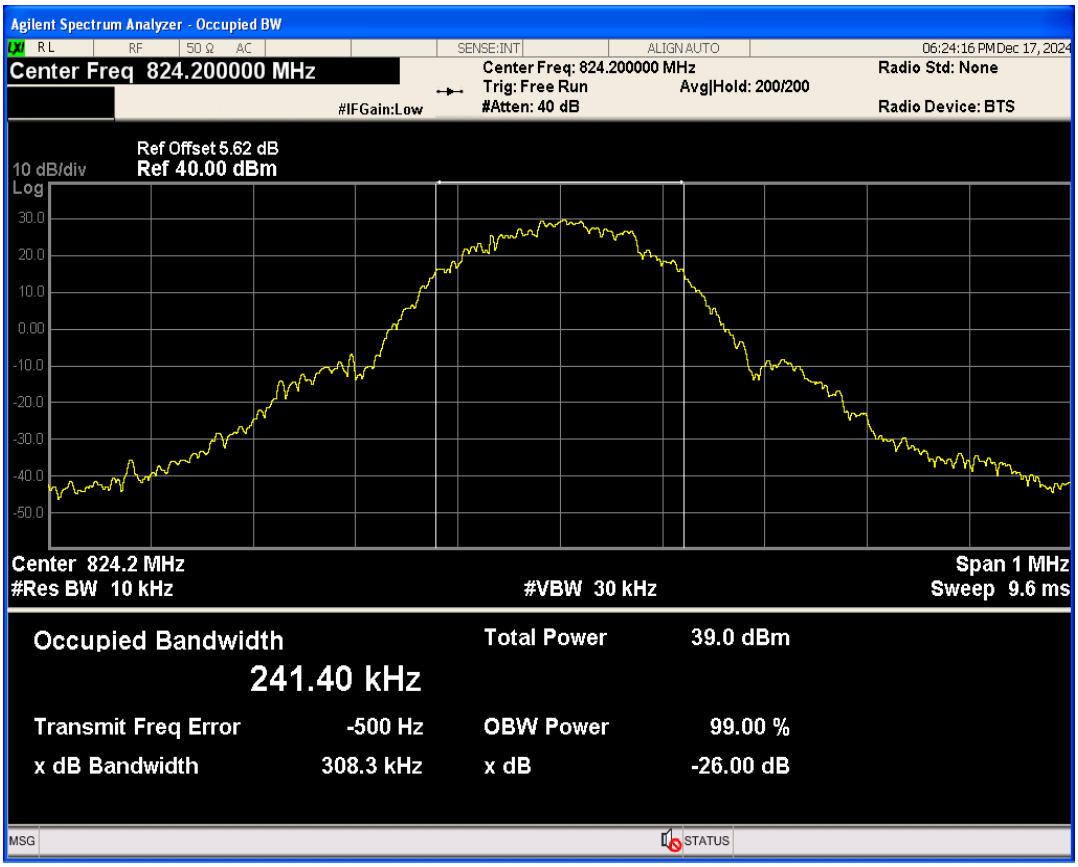
GSM1900 Channel=810



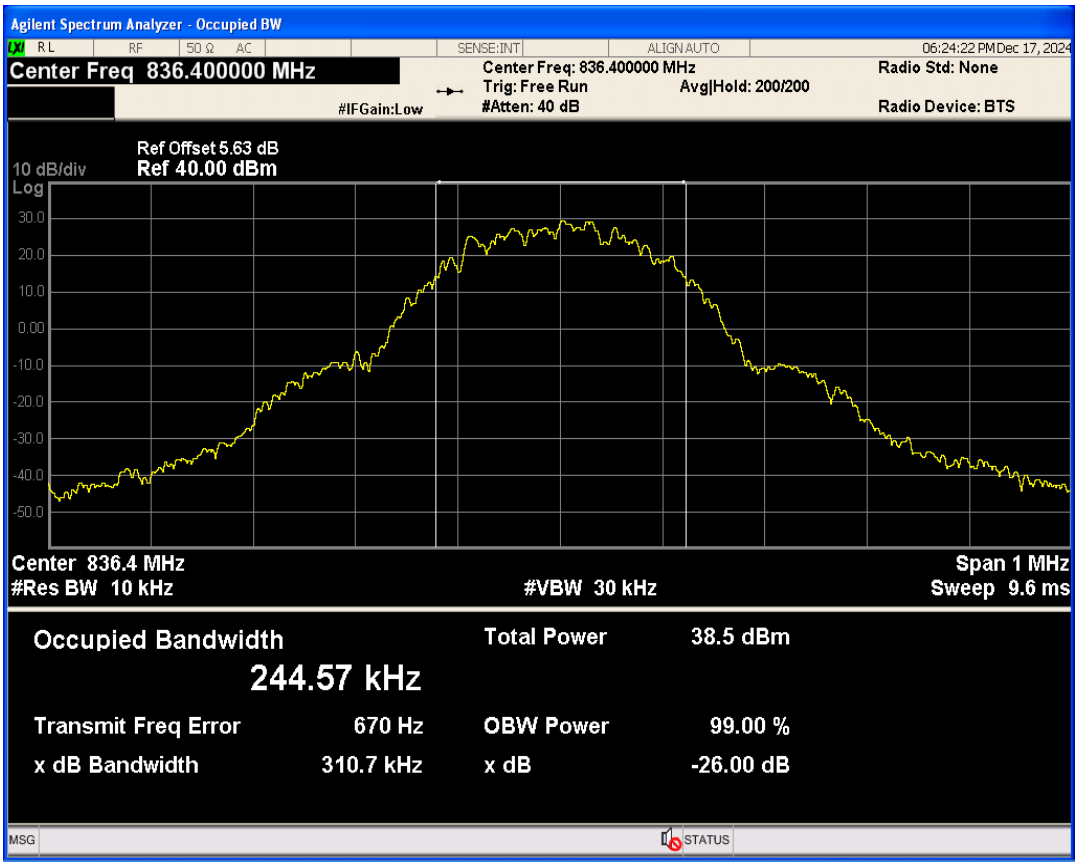
GSM1900 Channel=661



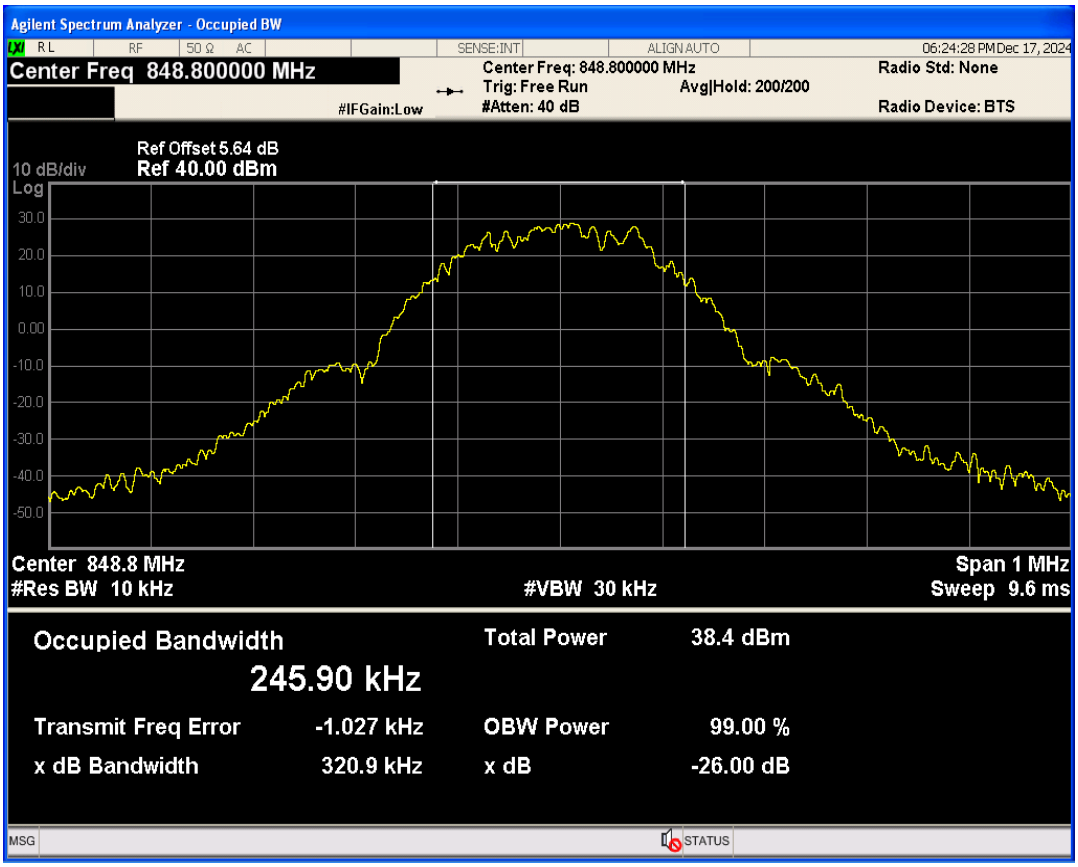
GSM850 Channel=128



GSM850 Channel=189



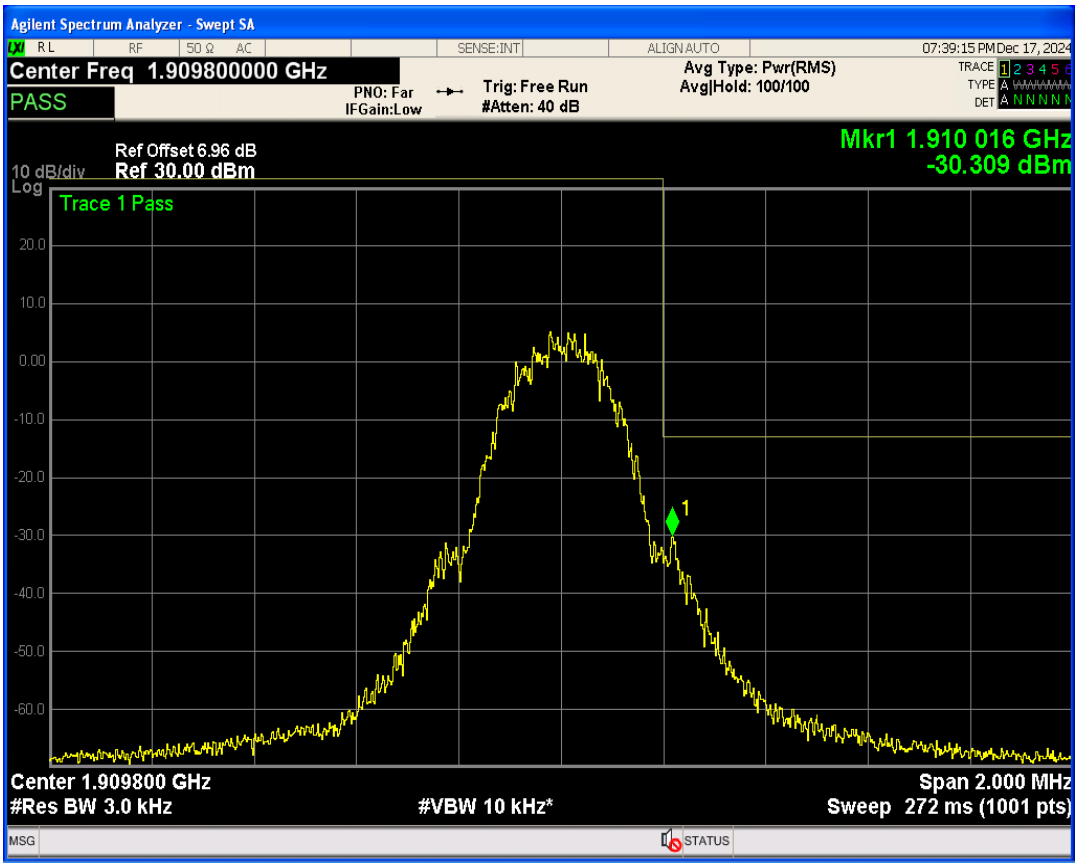
GSM850 Channel=251



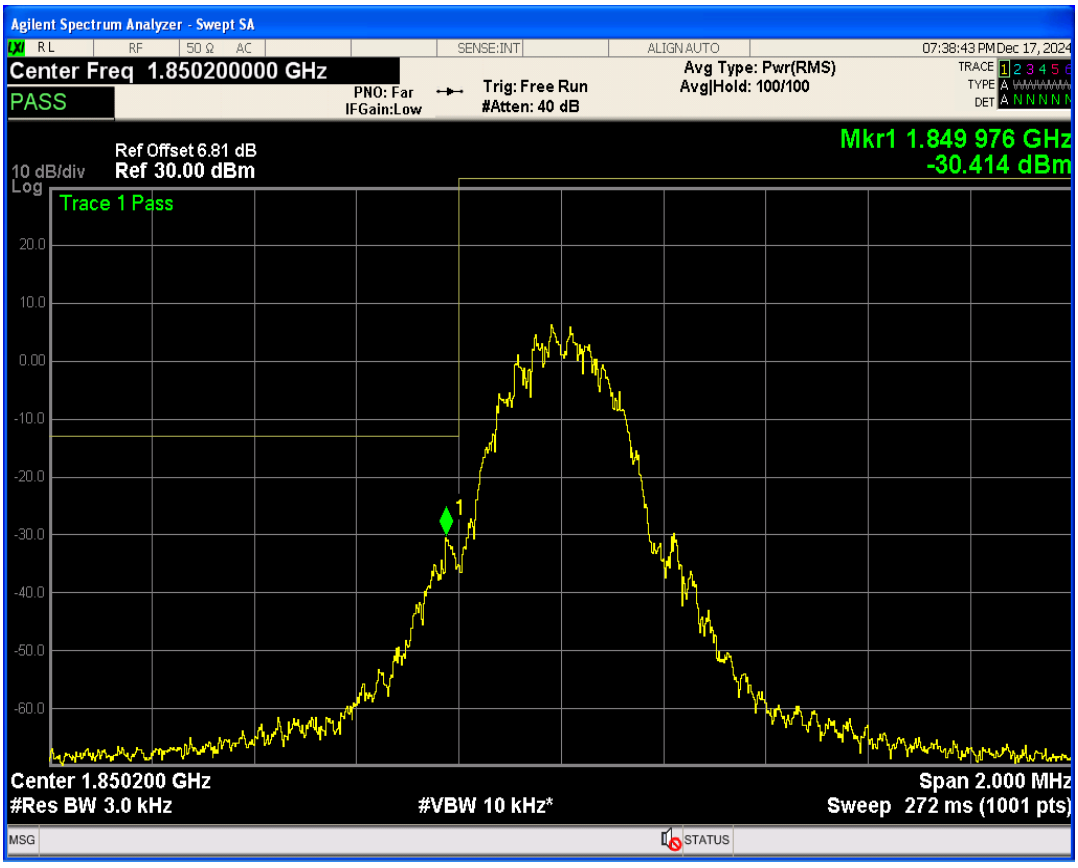
05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	1849.98	-30.41	-13	PASS
GSM1900	810	1909.8	1910.02	-30.30	-13	PASS
GSM850	128	824.2	823.98	-28.13	-13	PASS
GSM850	251	848.8	849.02	-25.93	-13	PASS

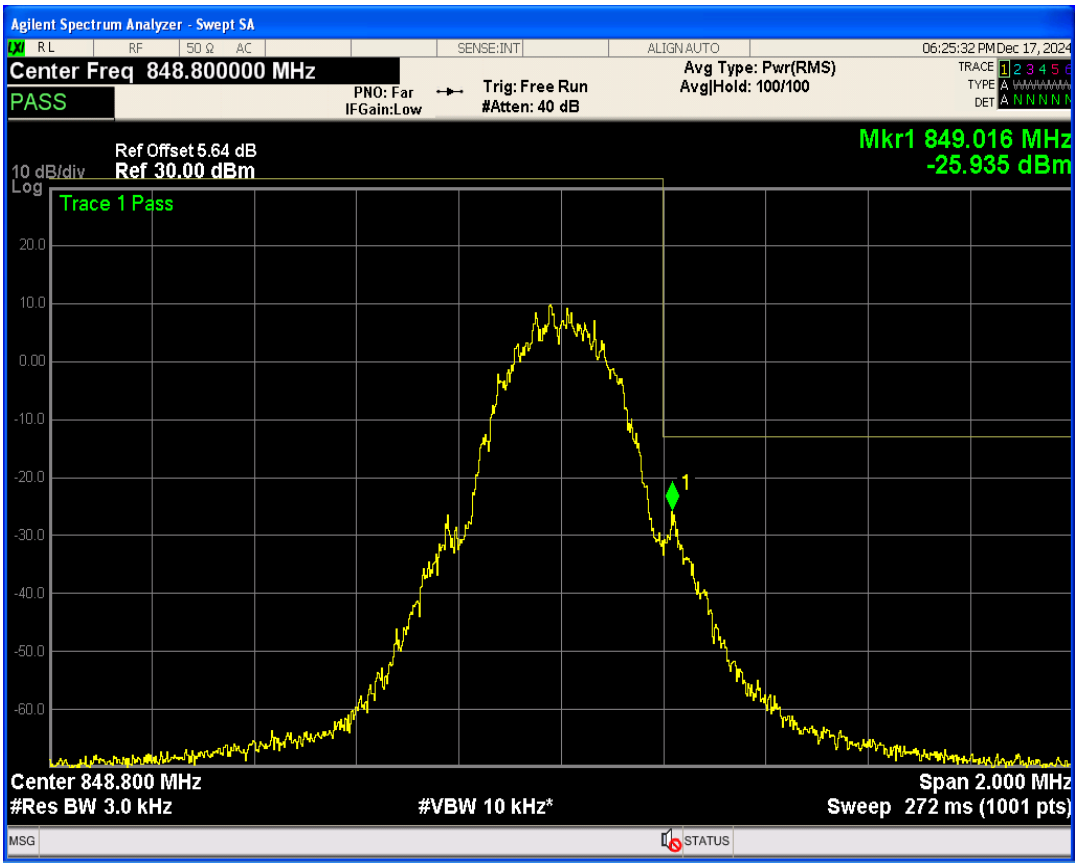
GSM1900 Channel=810



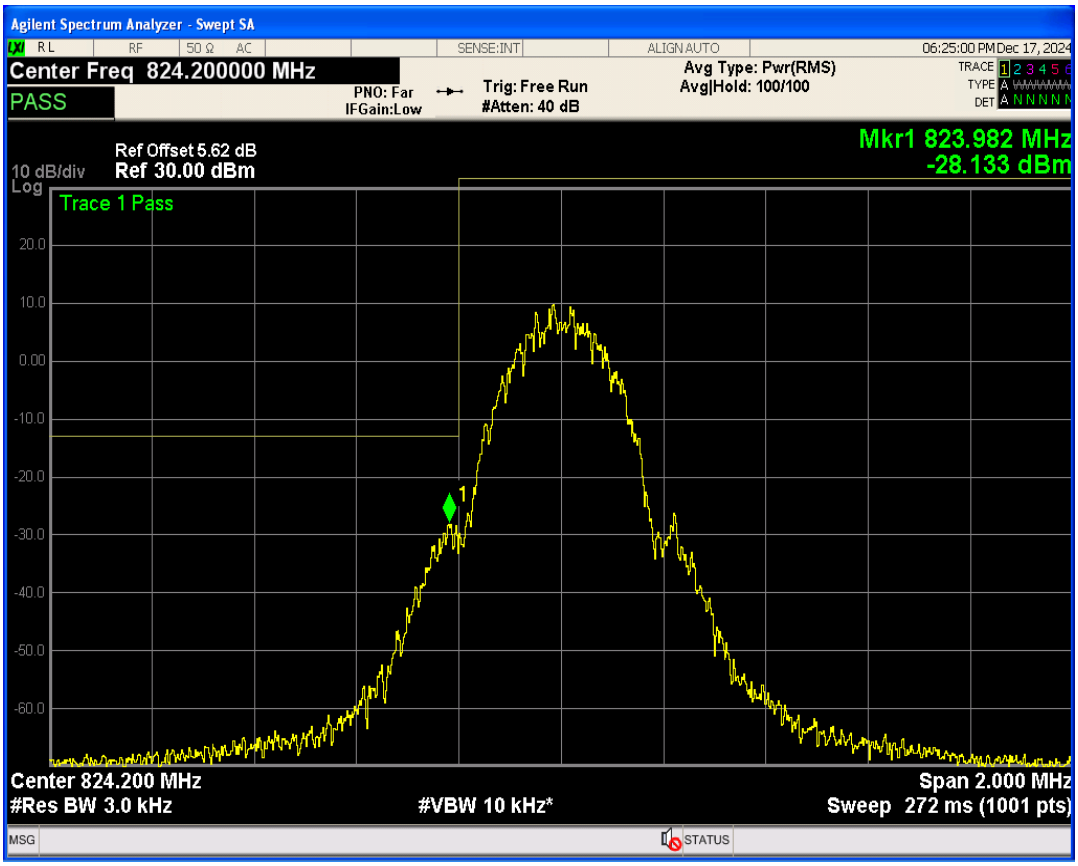
GSM1900 Channel=512



GSM850 Channel=251



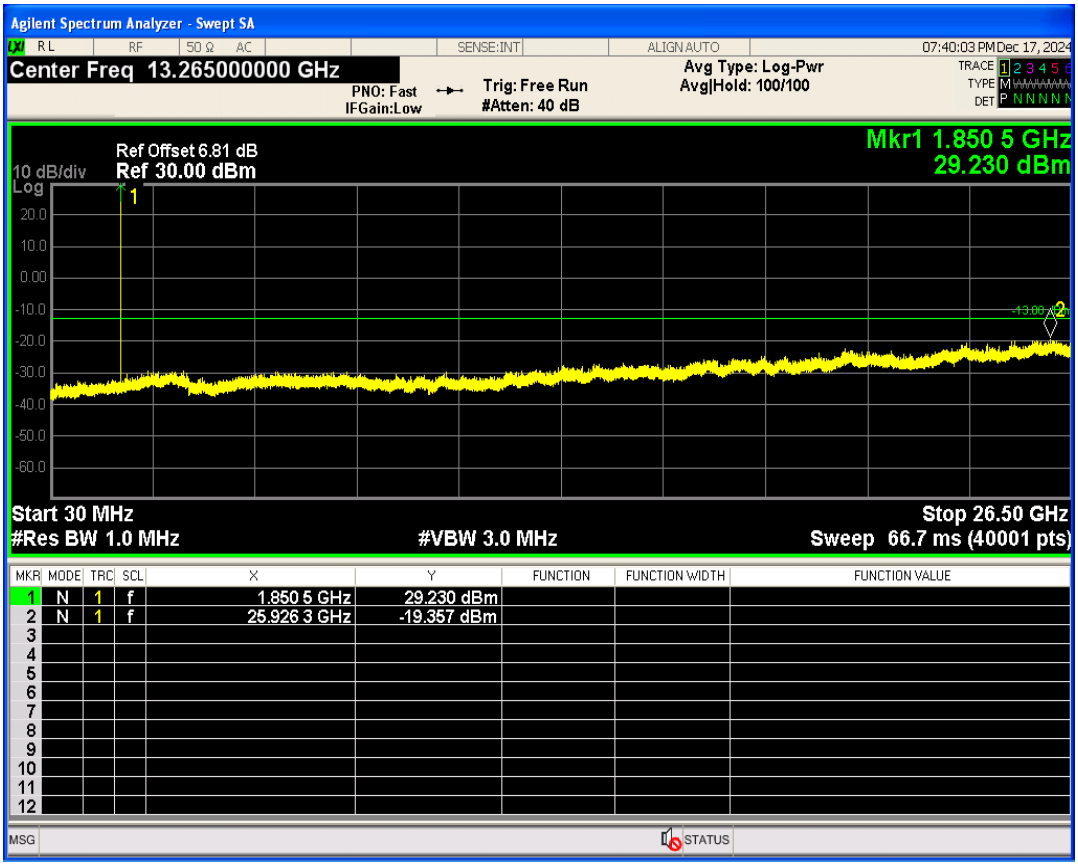
GSM850 Channel=128



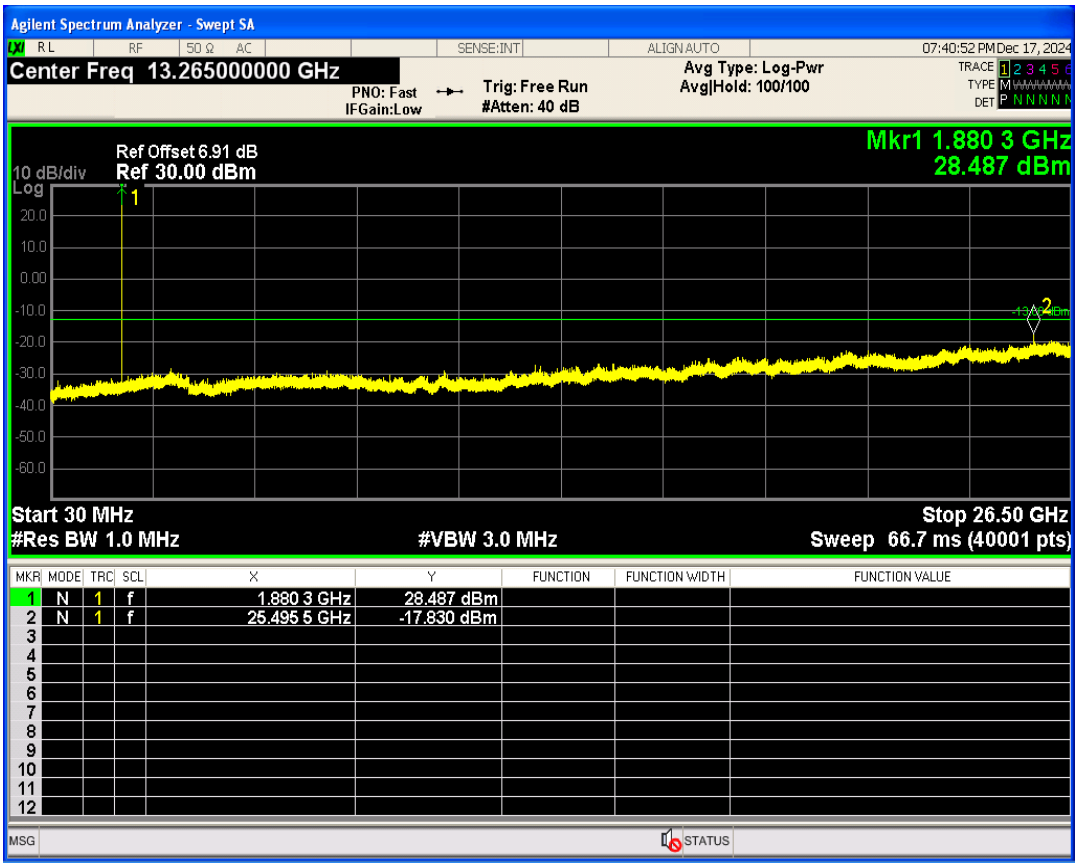
06 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	25926.26	-19.35	-13	PASS
GSM1900	661	1880	25495.46	-17.82	-13	PASS
GSM1900	810	1909.8	26054.64	-18.47	-13	PASS
GSM850	128	824.2	26088.39	-20.53	-13	PASS
GSM850	189	836.4	25555.02	-19.91	-13	PASS
GSM850	251	848.8	25983.84	-19.97	-13	PASS

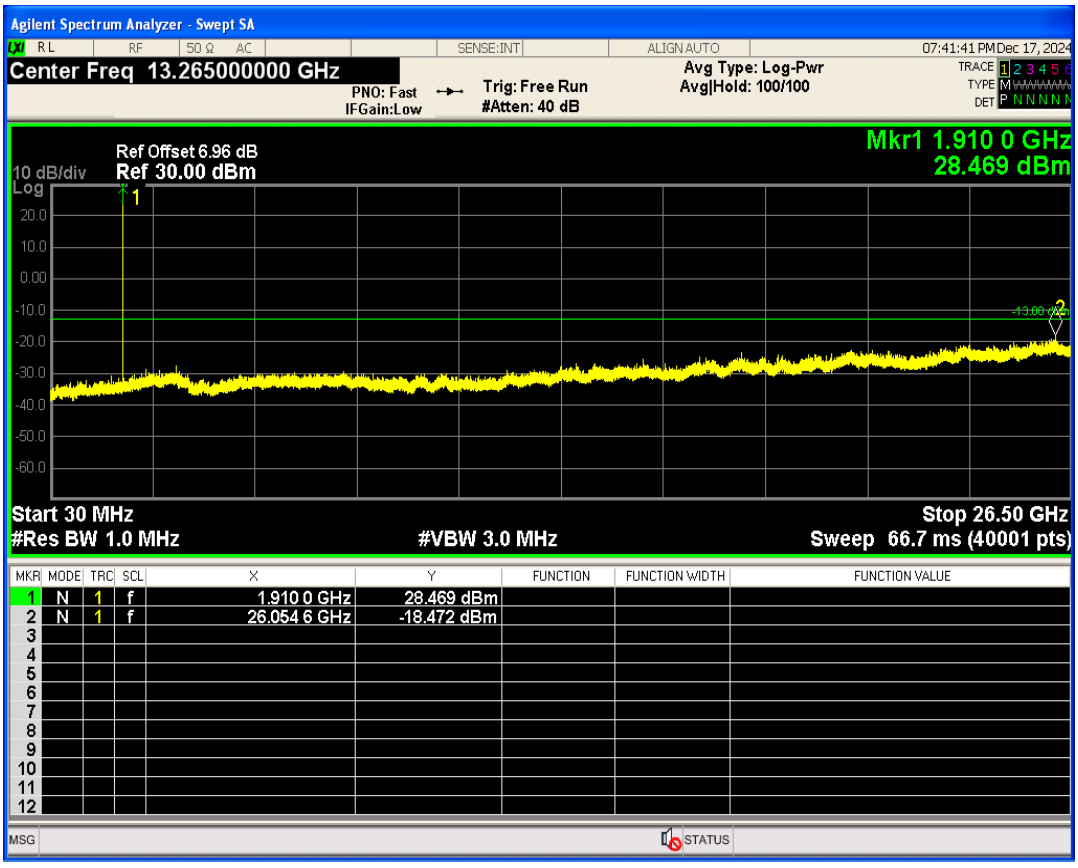
GSM1900 Channel=512



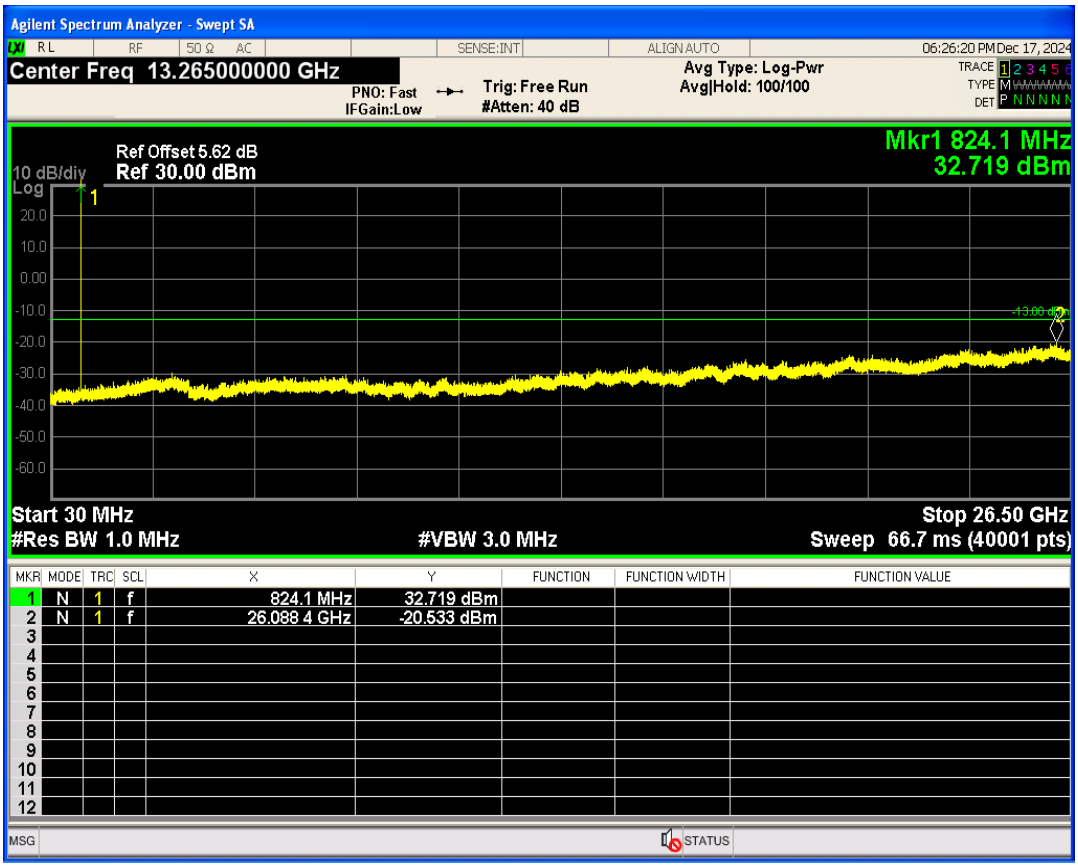
GSM1900 Channel=661



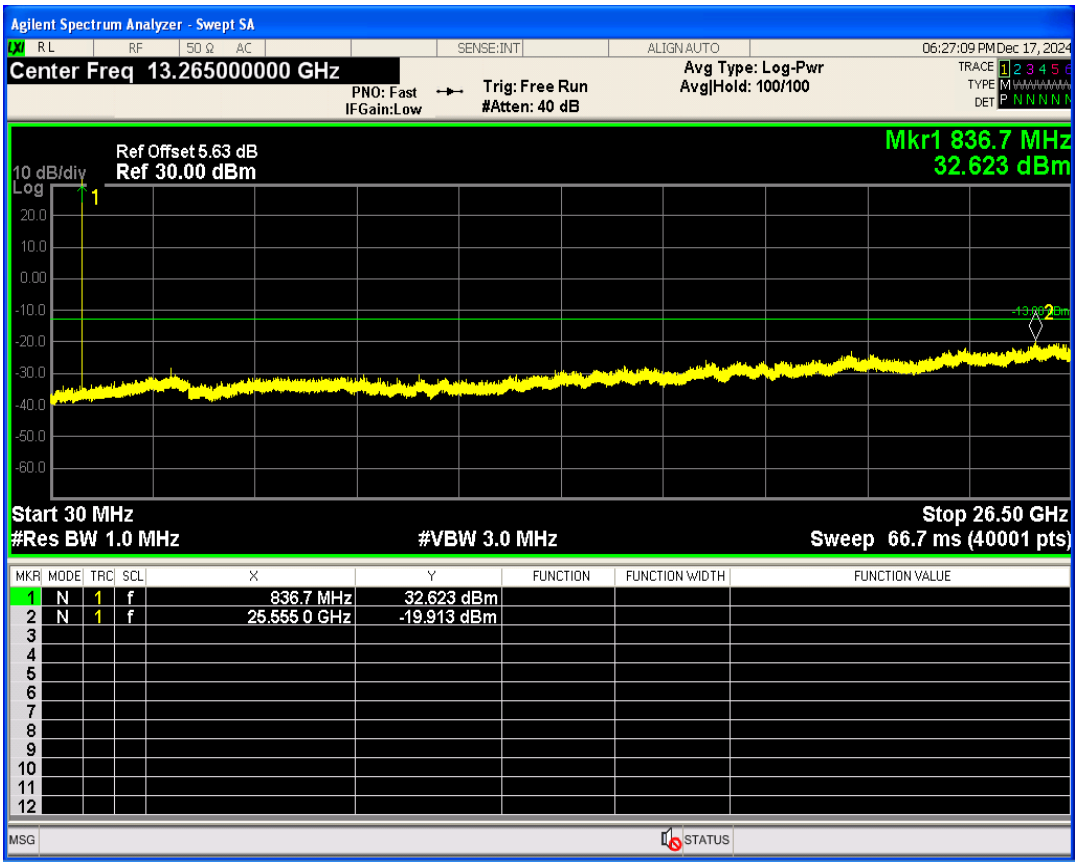
GSM1900 Channel=810



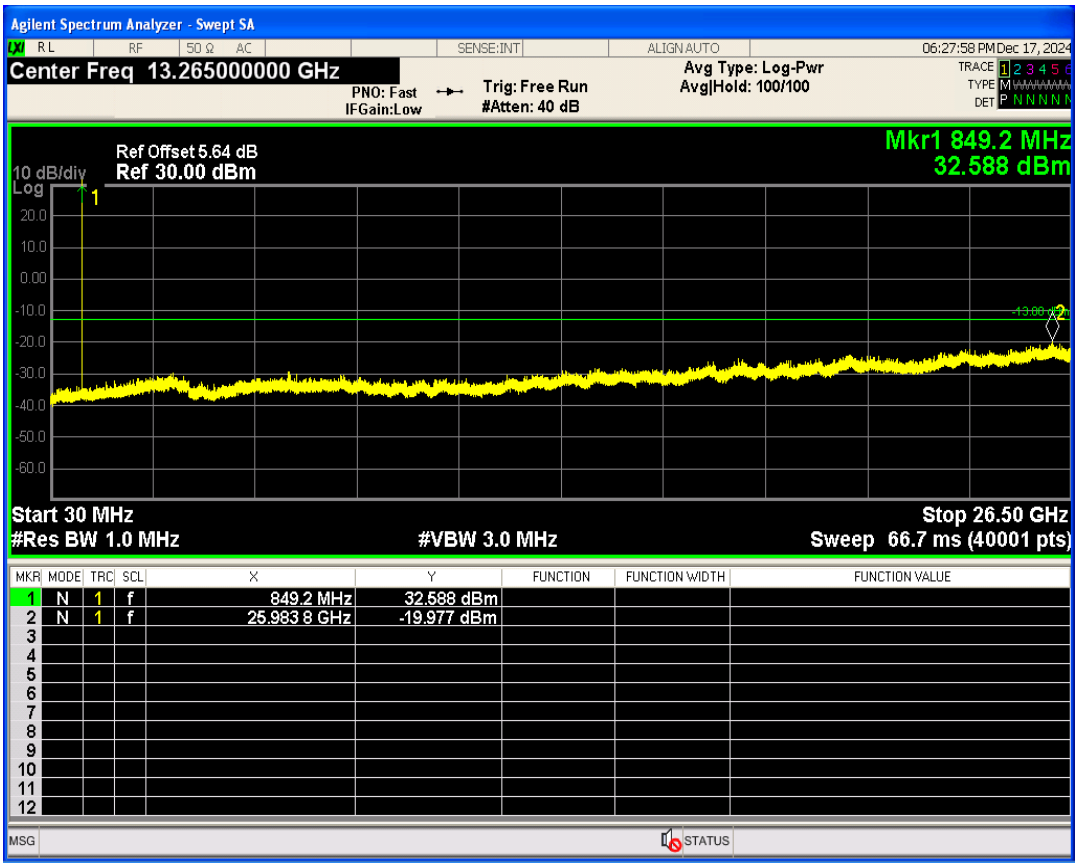
GSM850 Channel=128



GSM850 Channel=189



GSM850 Channel=251


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
06:27:58 PM Dec 17, 2024
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 5.64 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr1 849.2 MHz
32.588 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 66.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 849.2 MHz 32.588 dBm
2 N 1 f 25.983 8 GHz -19.977 dBm
3
4
5
6
7
8
9
10
11
12
MSG
STATUS