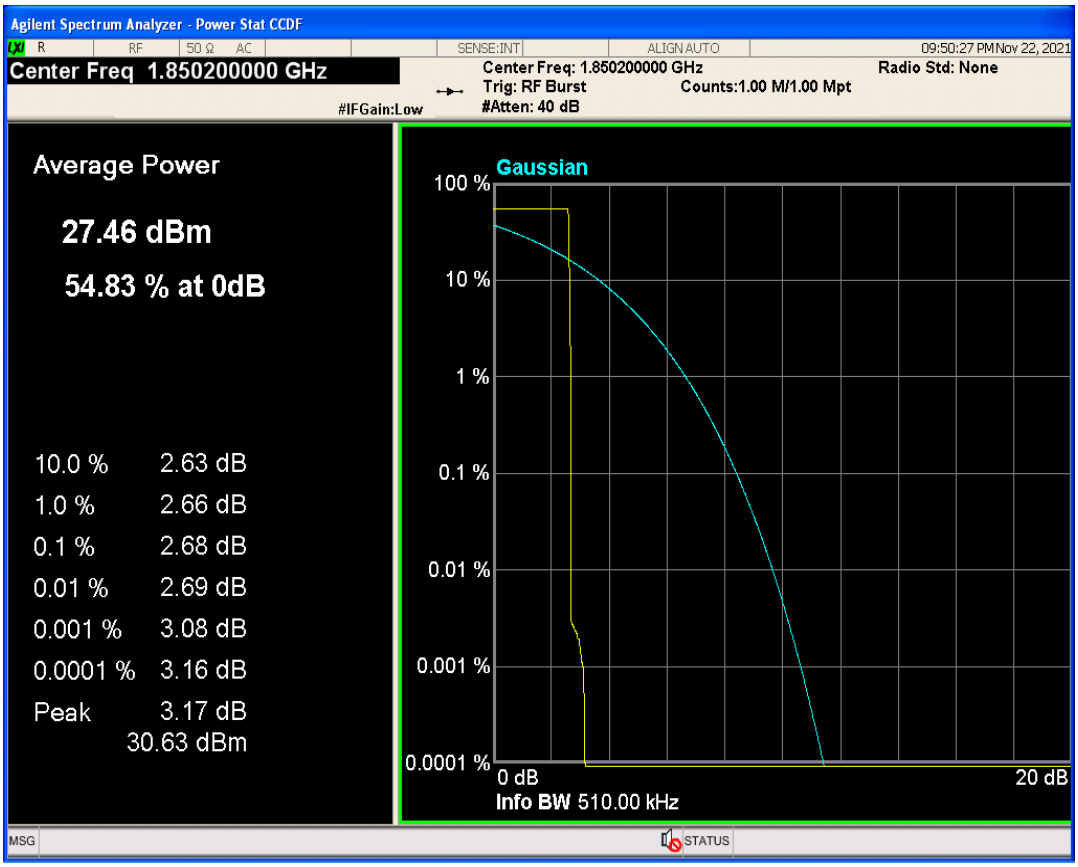
07 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
GPRS1900 1 Slot	512	1850.2	29.46	PASS
GPRS1900 1 Slot	661	1880	29.47	PASS
GPRS1900 1 Slot	810	1909.8	29.40	PASS
GPRS1900 2 Slot	512	1850.2	27.51	PASS
GPRS1900 2 Slot	661	1880	27.25	PASS
GPRS1900 2 Slot	810	1909.8	27.59	PASS
GPRS1900 3 Slot	512	1850.2	25.89	PASS
GPRS1900 3 Slot	661	1880	25.63	PASS
GPRS1900 3 Slot	810	1909.8	25.34	PASS
GPRS1900 4 Slot	512	1850.2	23.88	PASS
GPRS1900 4 Slot	661	1880	23.56	PASS
GPRS1900 4 Slot	810	1909.8	23.31	PASS
GPRS850 1 Slot	128	824.2	31.94	PASS
GPRS850 1 Slot	189	836.4	32.10	PASS
GPRS850 1 Slot	251	848.8	31.96	PASS
GPRS850 2 Slot	128	824.2	31.20	PASS
GPRS850 2 Slot	189	836.4	31.33	PASS
GPRS850 2 Slot	251	848.8	31.20	PASS
GPRS850 3 Slot	128	824.2	29.46	PASS
GPRS850 3 Slot	189	836.4	29.57	PASS
GPRS850 3 Slot	251	848.8	29.44	PASS
GPRS850 4 Slot	128	824.2	28.33	PASS
GPRS850 4 Slot	189	836.4	28.47	PASS
GPRS850 4 Slot	251	848.8	28.33	PASS

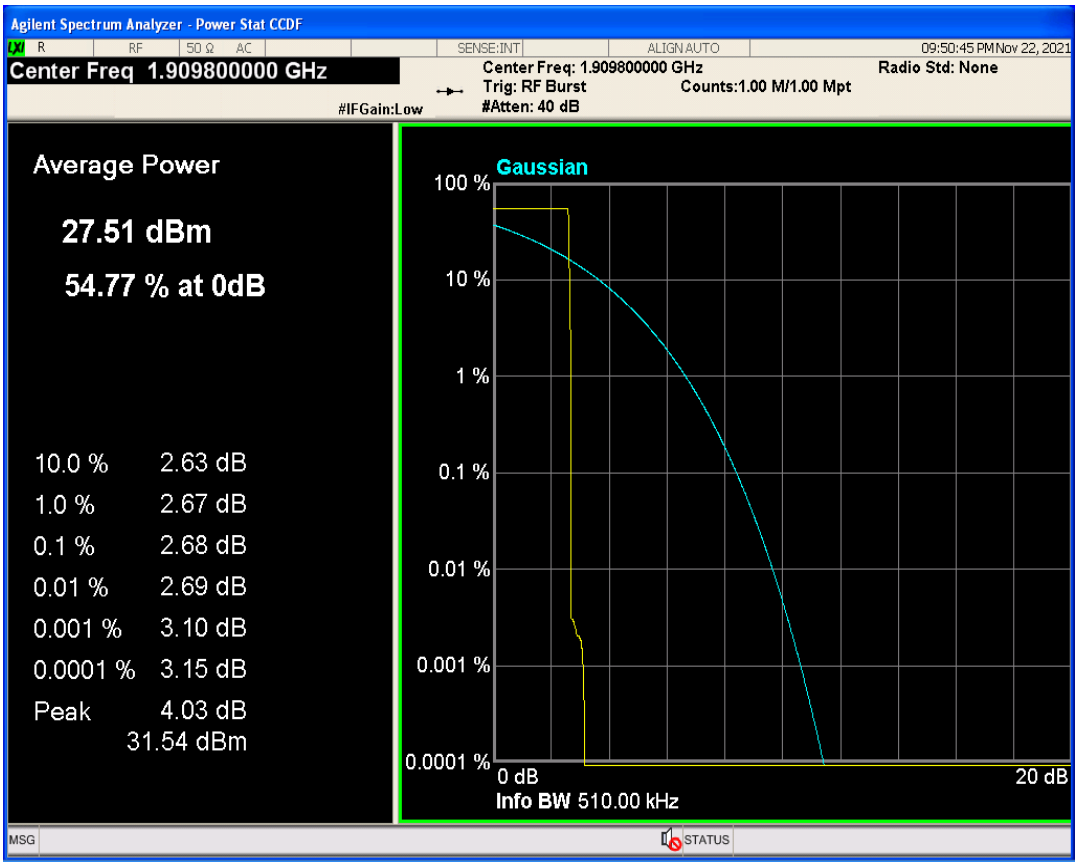
09 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS1900	512	1850.2	2.677250357	13.00	PASS
GPRS1900	661	1880	2.669336786	13.00	PASS
GPRS1900	810	1909.8	2.678070959	13.00	PASS
GPRS850	128	824.2	2.668779822	13.00	PASS
GPRS850	189	836.4	2.668988921	13.00	PASS
GPRS850	251	848.8	2.647873023	13.00	PASS

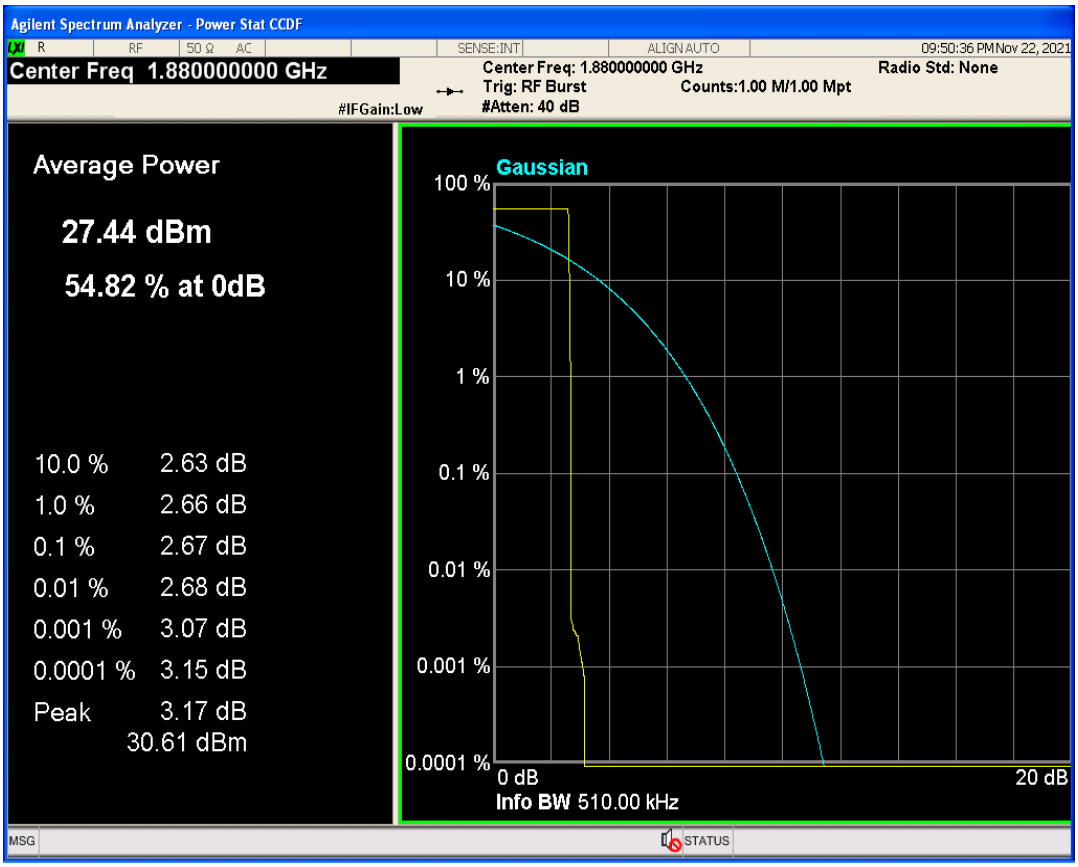
GPRS1900 Channel=512



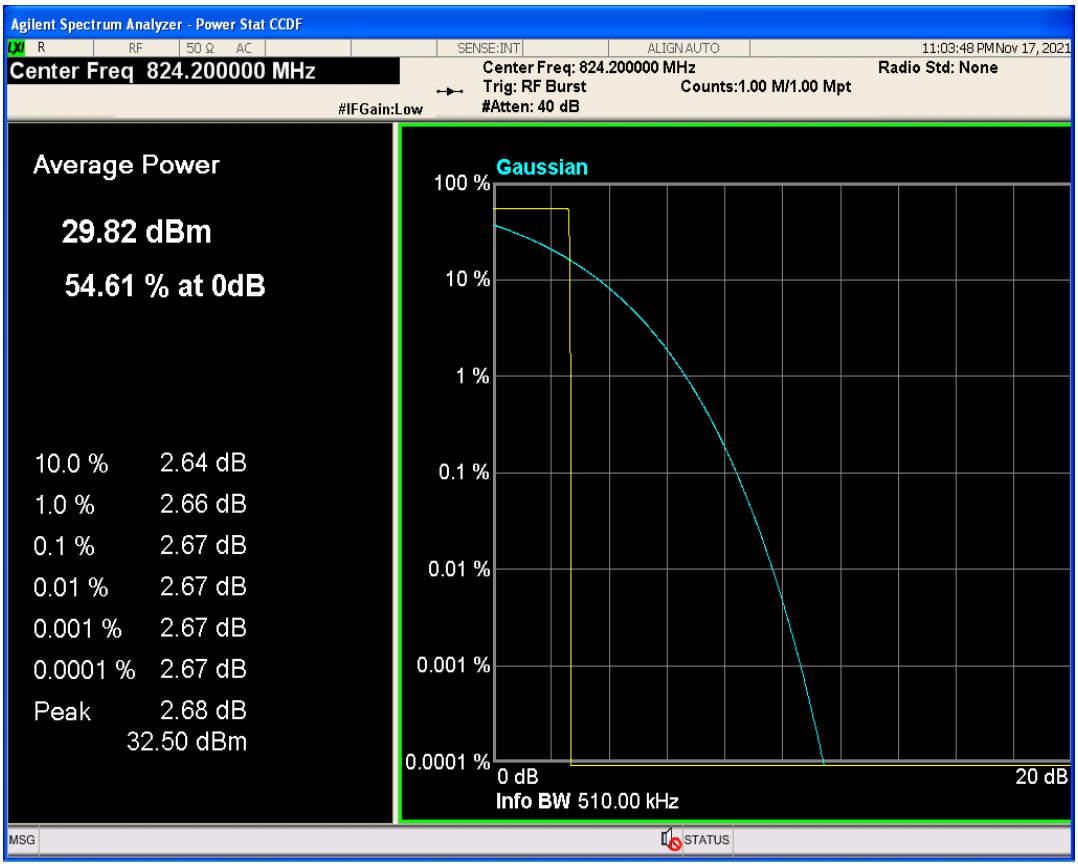
GPRS1900 Channel=810



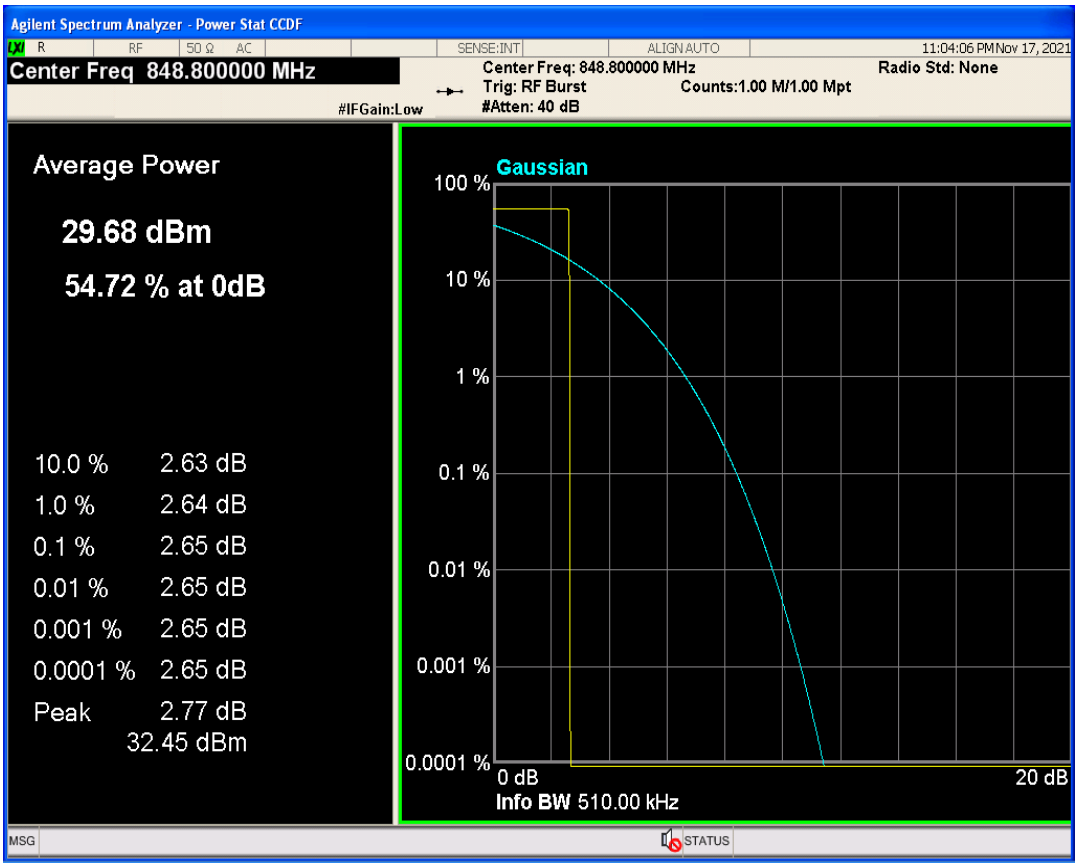
GPRS1900 Channel=661



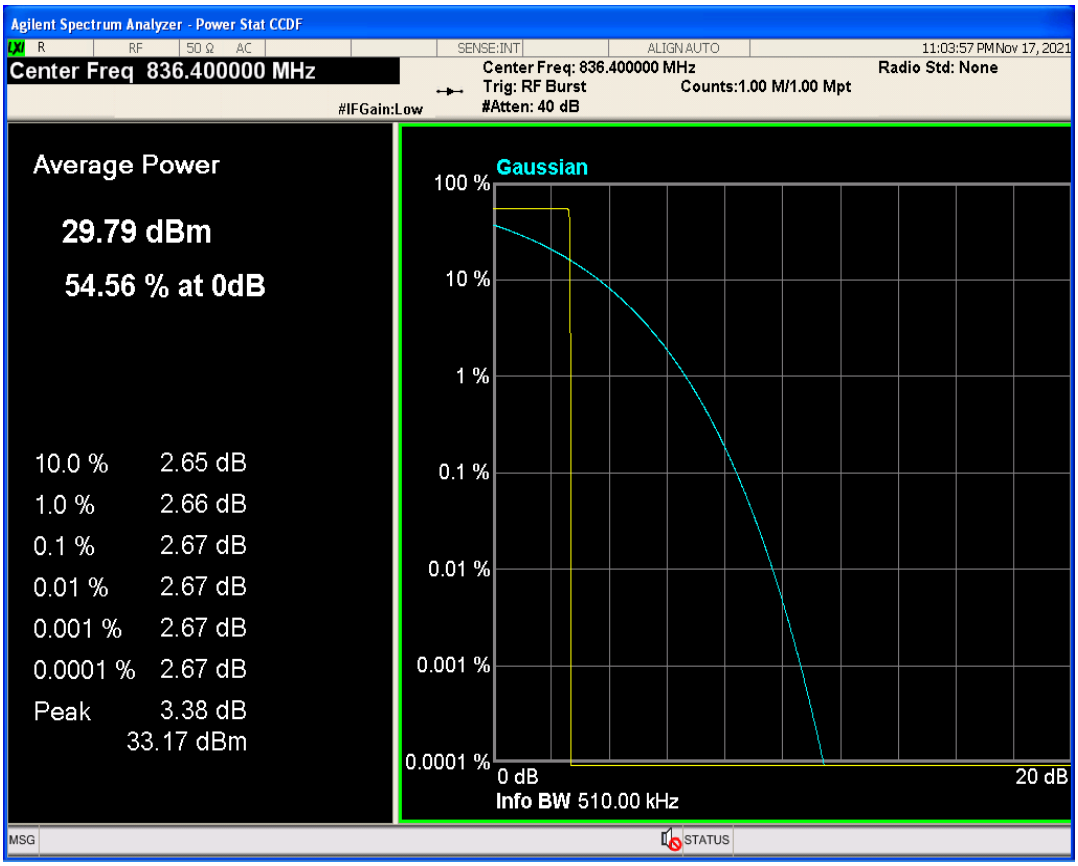
GPRS850 Channel=128



GPRS850 Channel=251



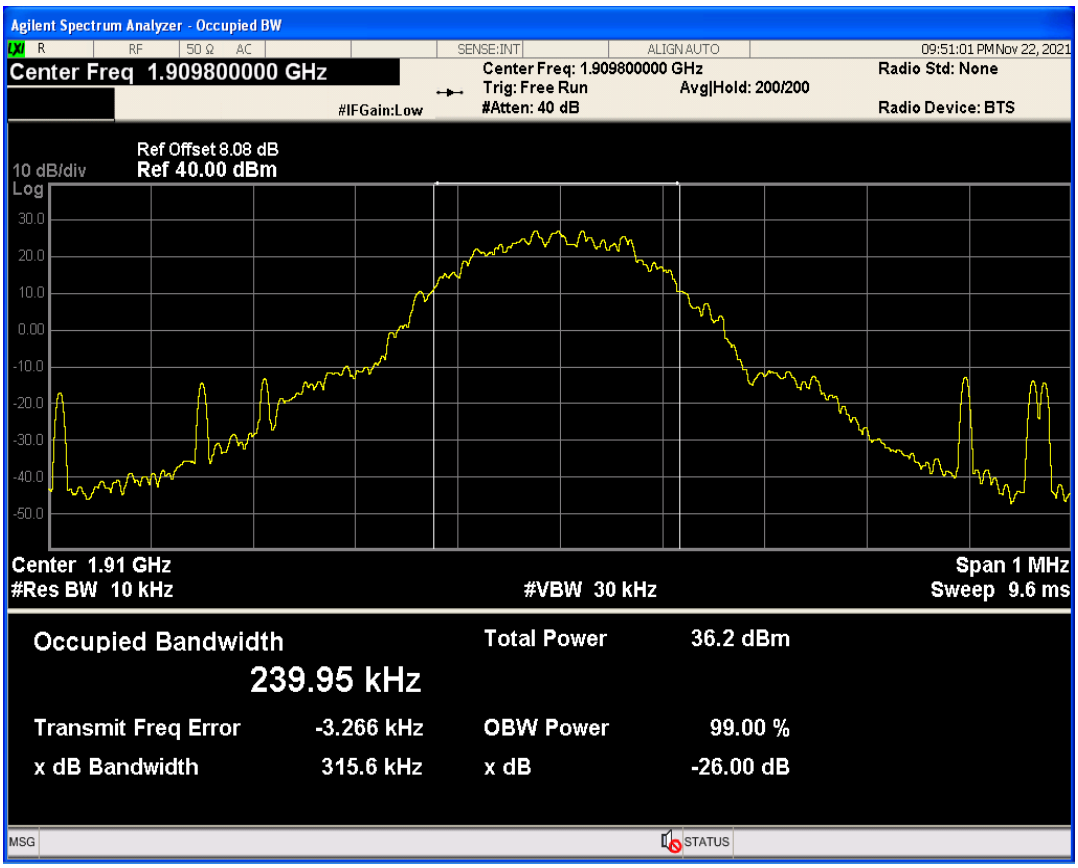
GPRS850 Channel=189



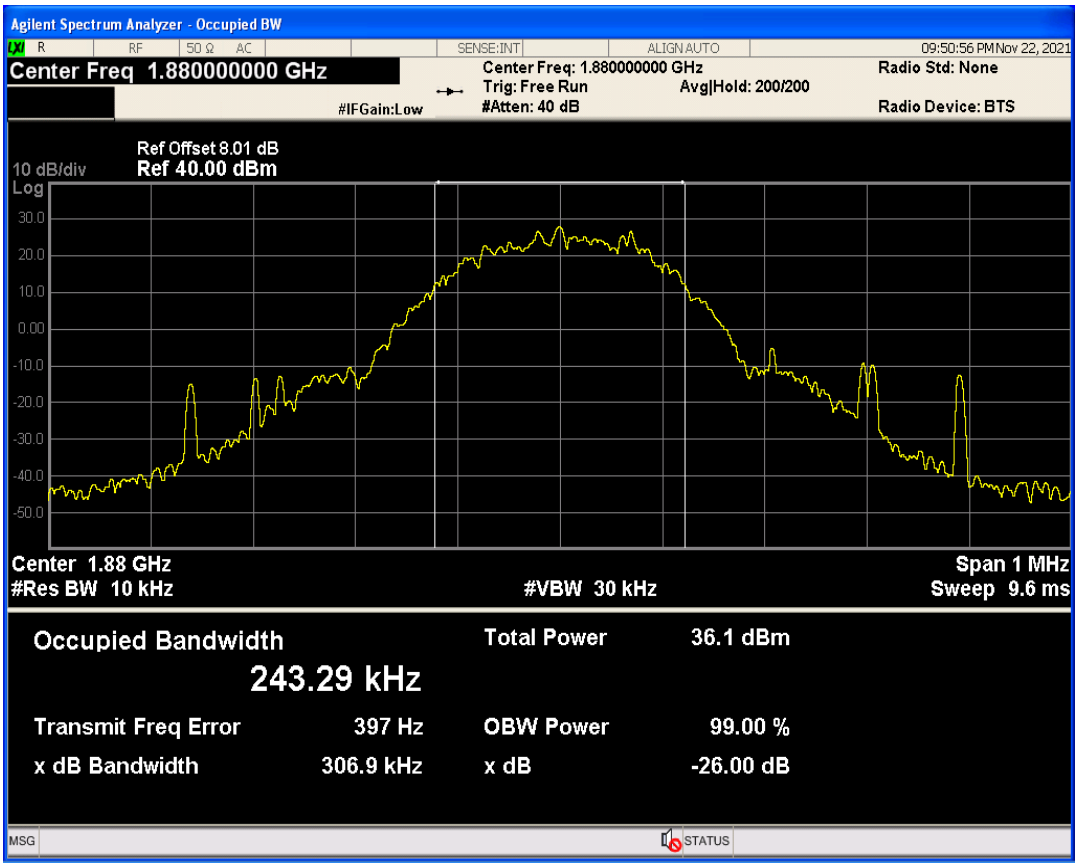
10 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS1900	512	1850.2	242.930	318.309	PASS
GPRS1900	661	1880	243.288	306.886	PASS
GPRS1900	810	1909.8	239.951	315.607	PASS
GPRS850	128	824.2	239.785	316.917	PASS
GPRS850	189	836.4	249.469	320.015	PASS
GPRS850	251	848.8	243.981	320.190	PASS

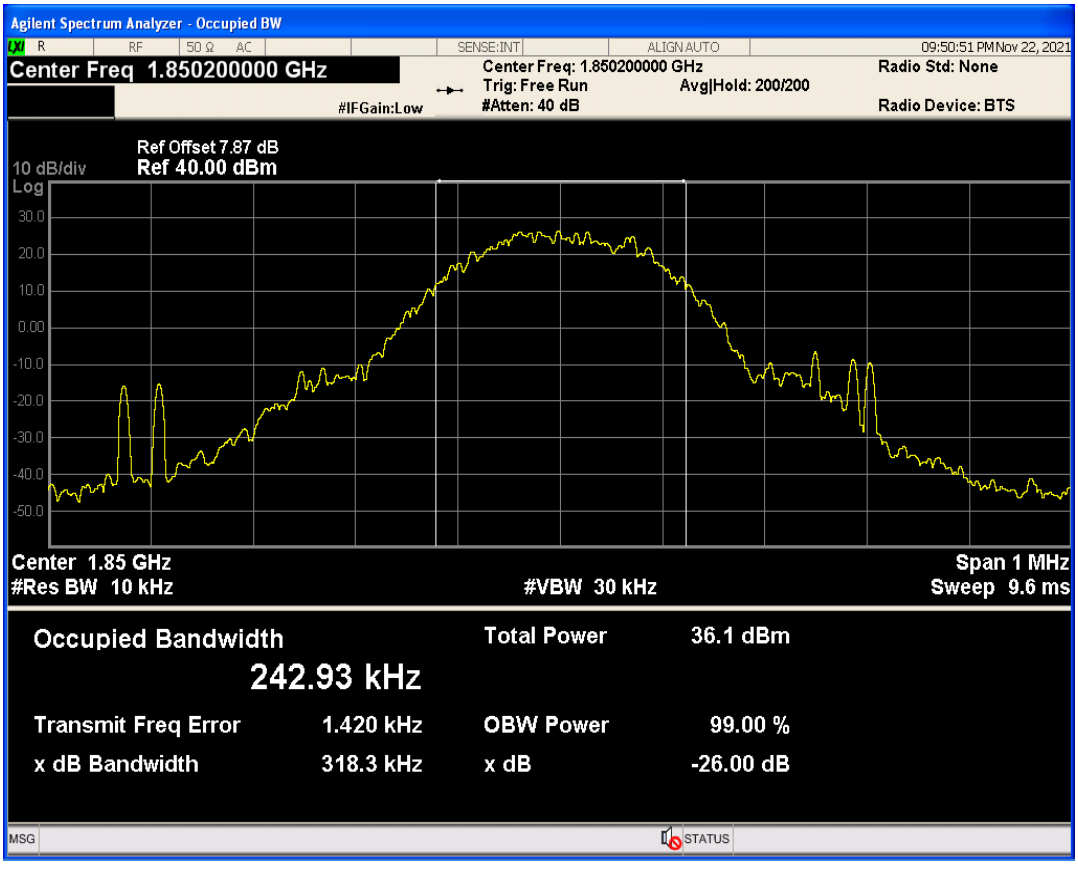
GPRS1900 Channel=810



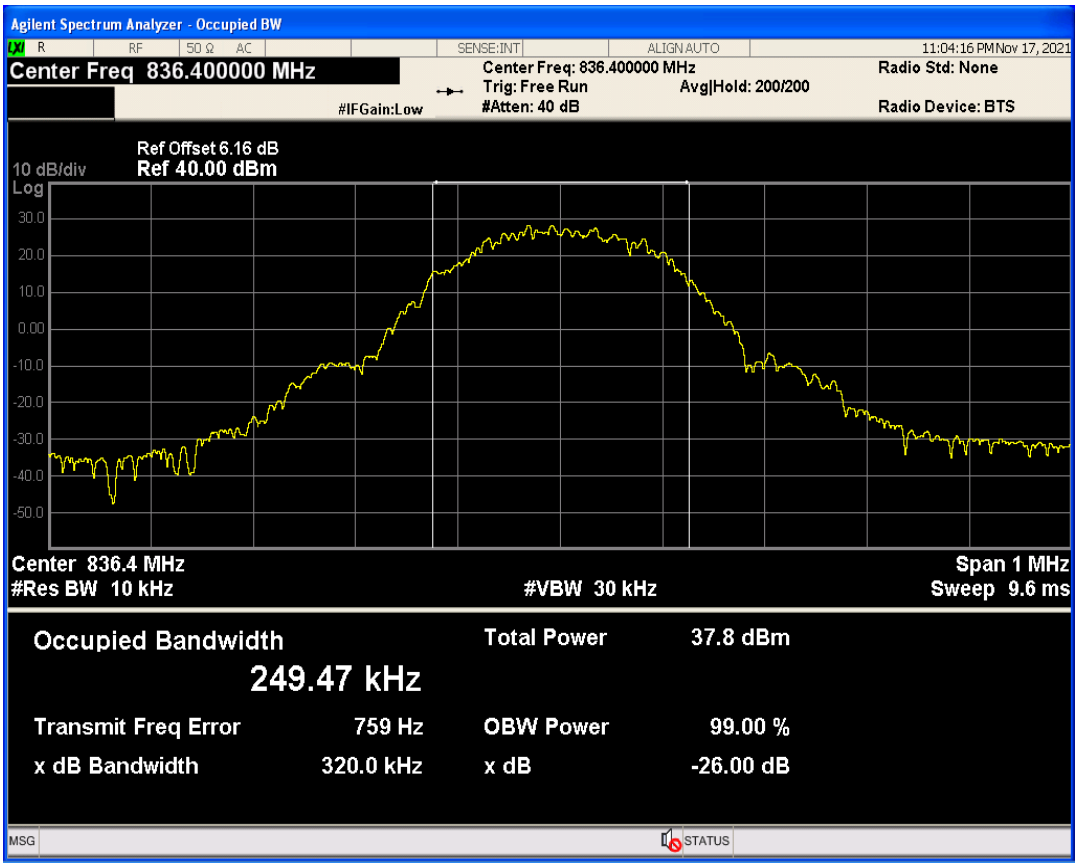
GPRS1900 Channel=661



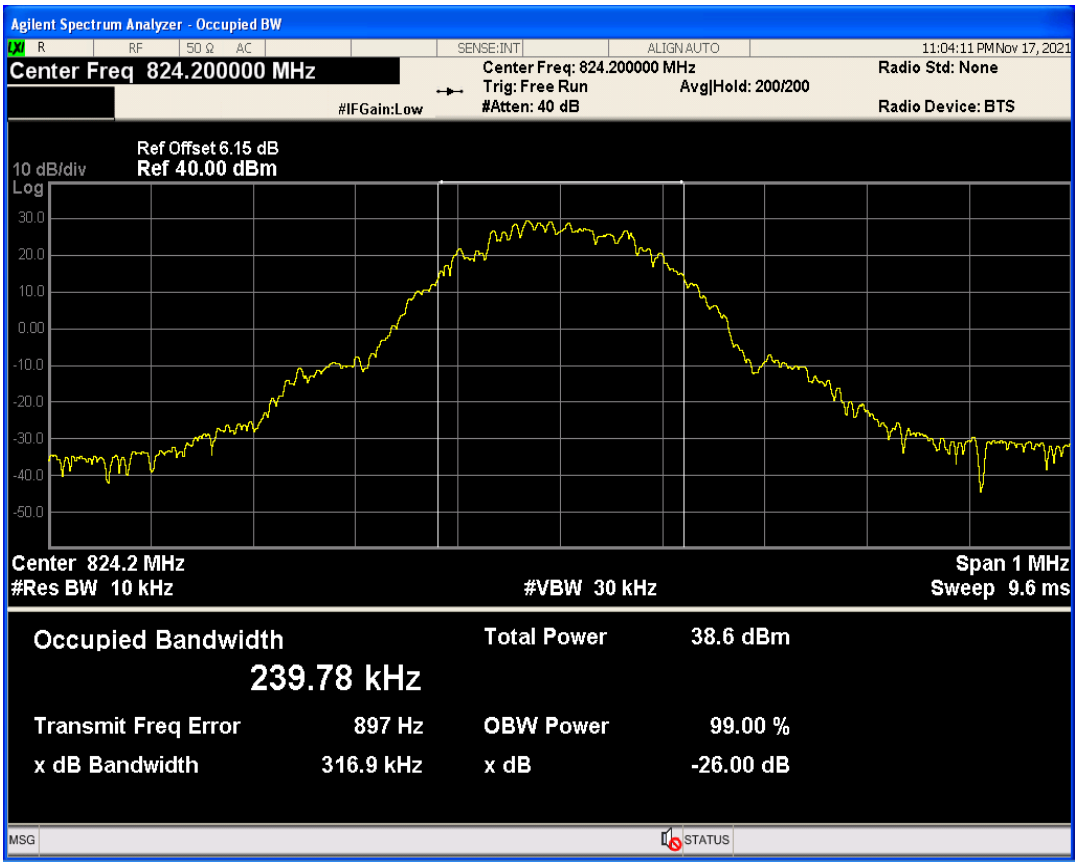
GPRS1900 Channel=512



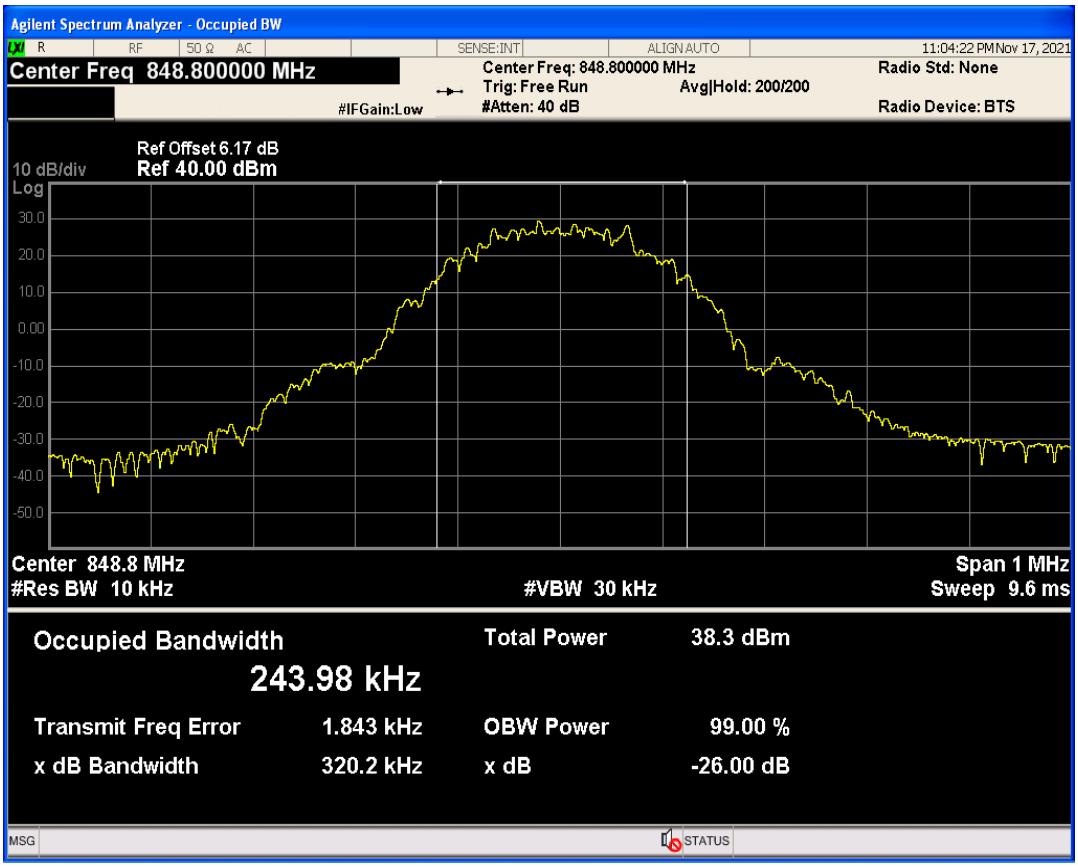
GPRS850 Channel=189



GPRS850 Channel=128



GPRS850 Channel=251

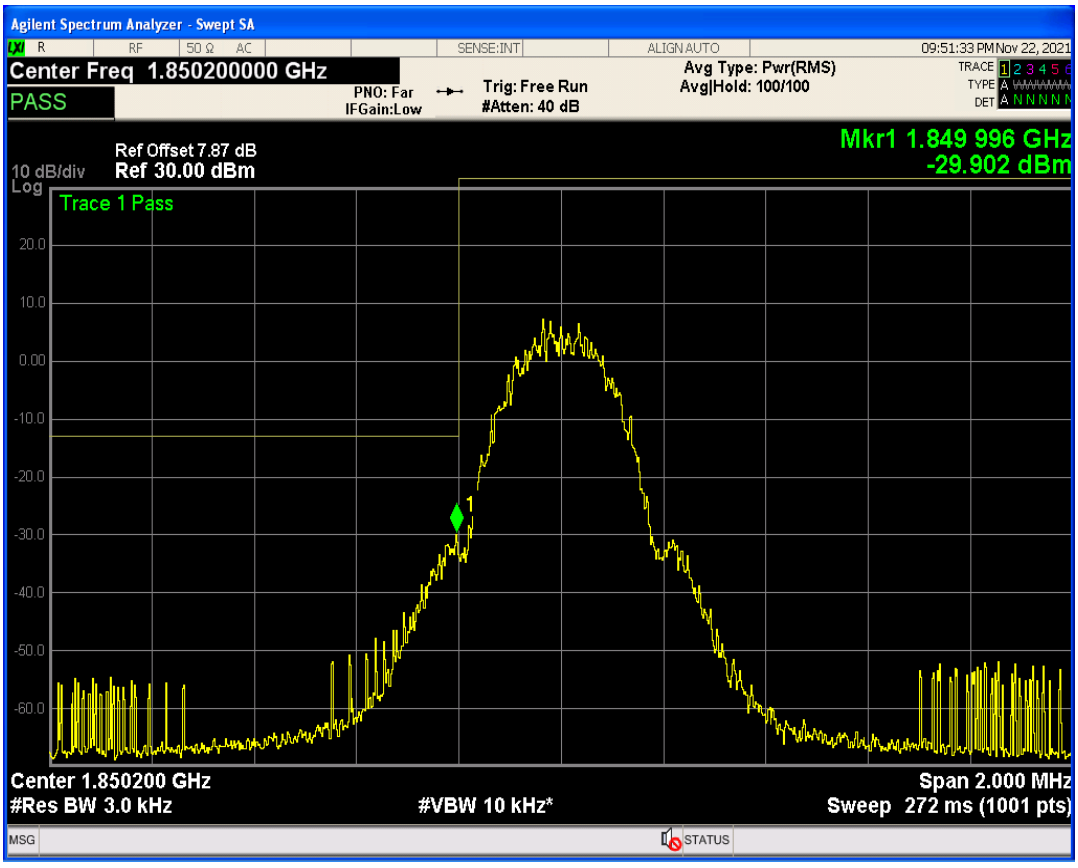


11 Band edge

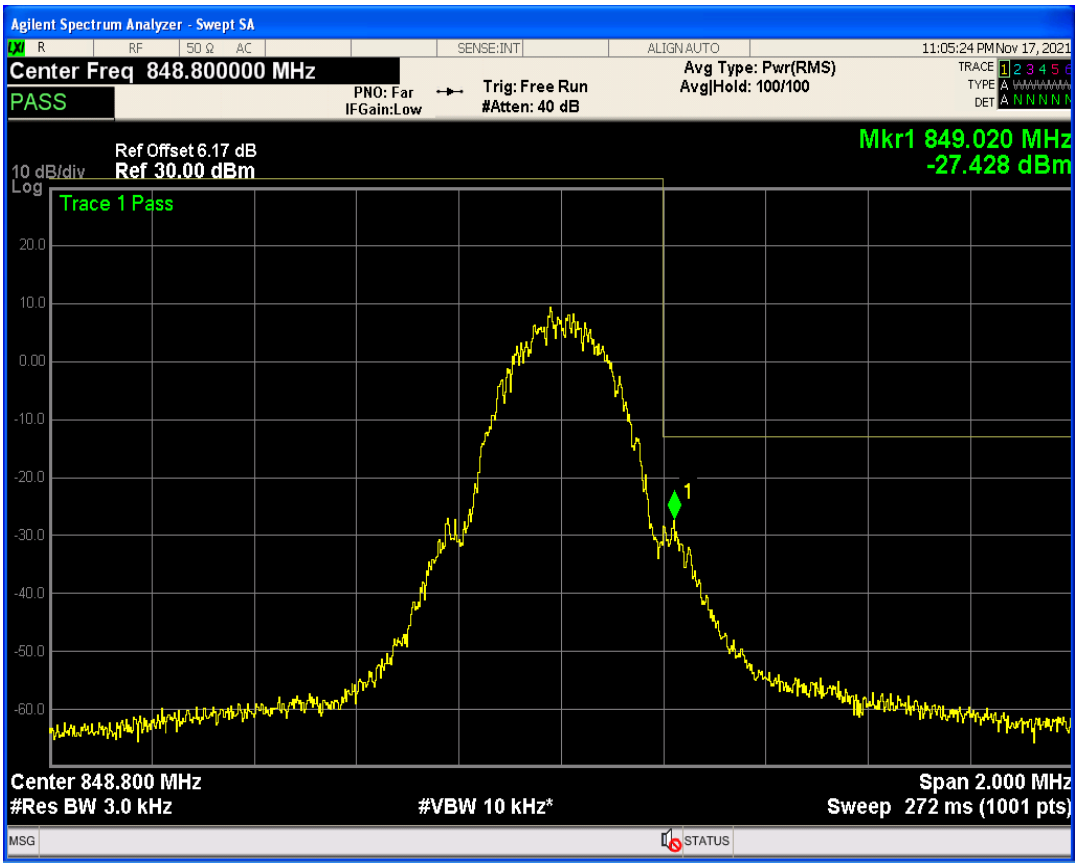
Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	1850.00	-29.90	-13	PASS
GPRS1900	810	1909.8	1910.02	-29.82	-13	PASS
GPRS850	128	824.2	823.98	-26.50	-13	PASS
GPRS850	251	848.8	849.02	-27.42	-13	PASS

GPRS1900 Channel=810

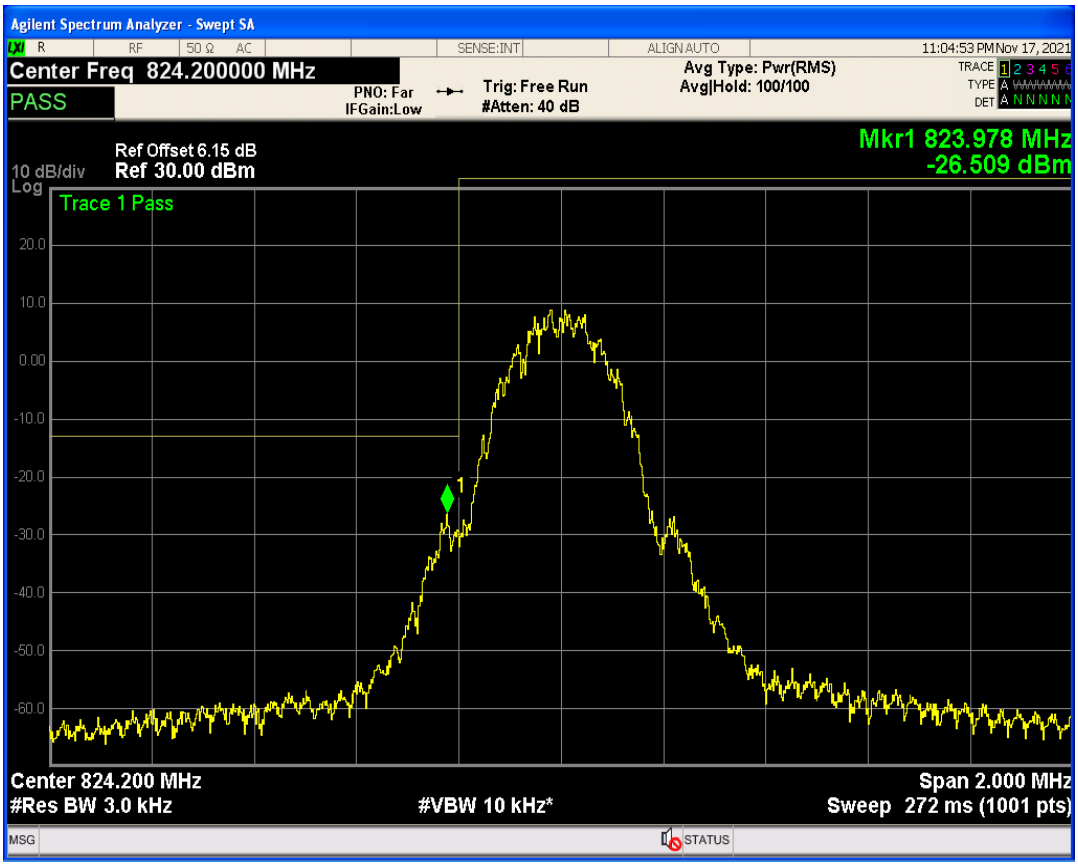
GPRS1900 Channel=512



GPRS850 Channel=251



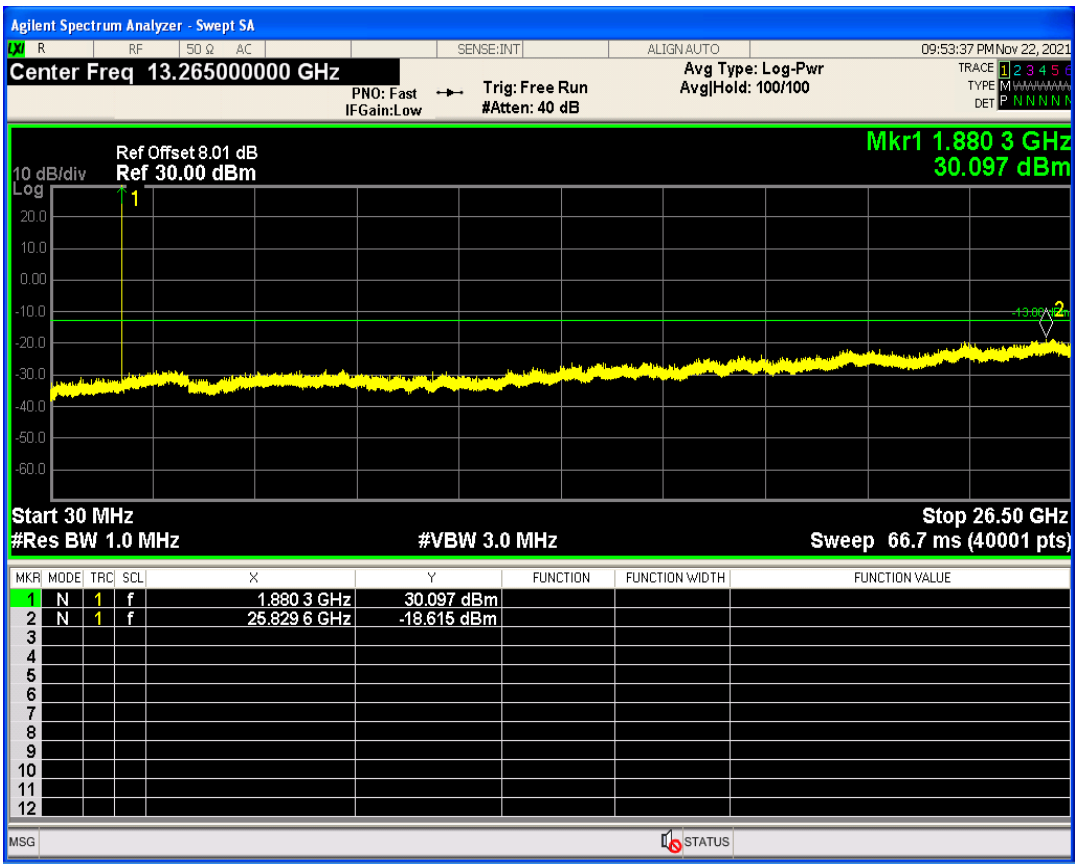
GPRS850 Channel=128



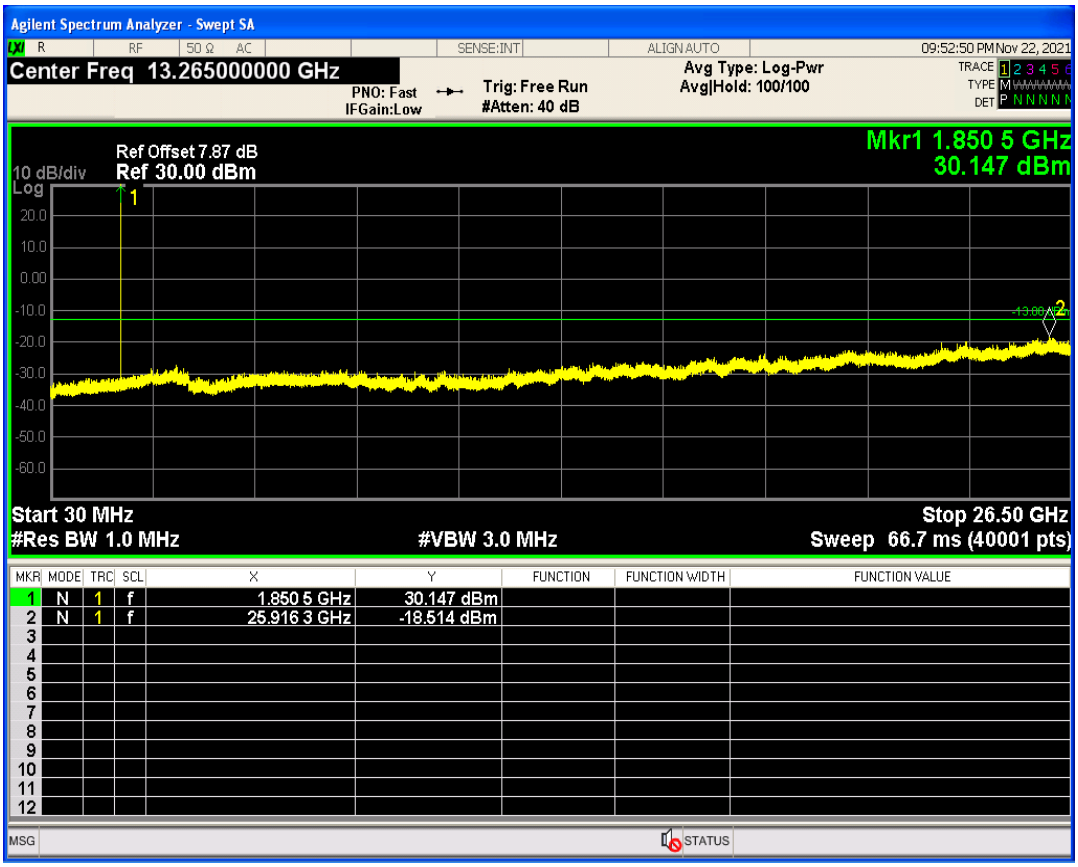
12 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	25916.34	-18.51	-13	PASS
GPRS1900	661	1880	25829.65	-18.61	-13	PASS
GPRS1900	810	1909.8	26009.64	-18.48	-13	PASS
GPRS850	128	824.2	26312.72	-20.10	-13	PASS
GPRS850	189	836.4	25956.04	-19.75	-13	PASS
GPRS850	251	848.8	859.83	-19.83	-13	PASS

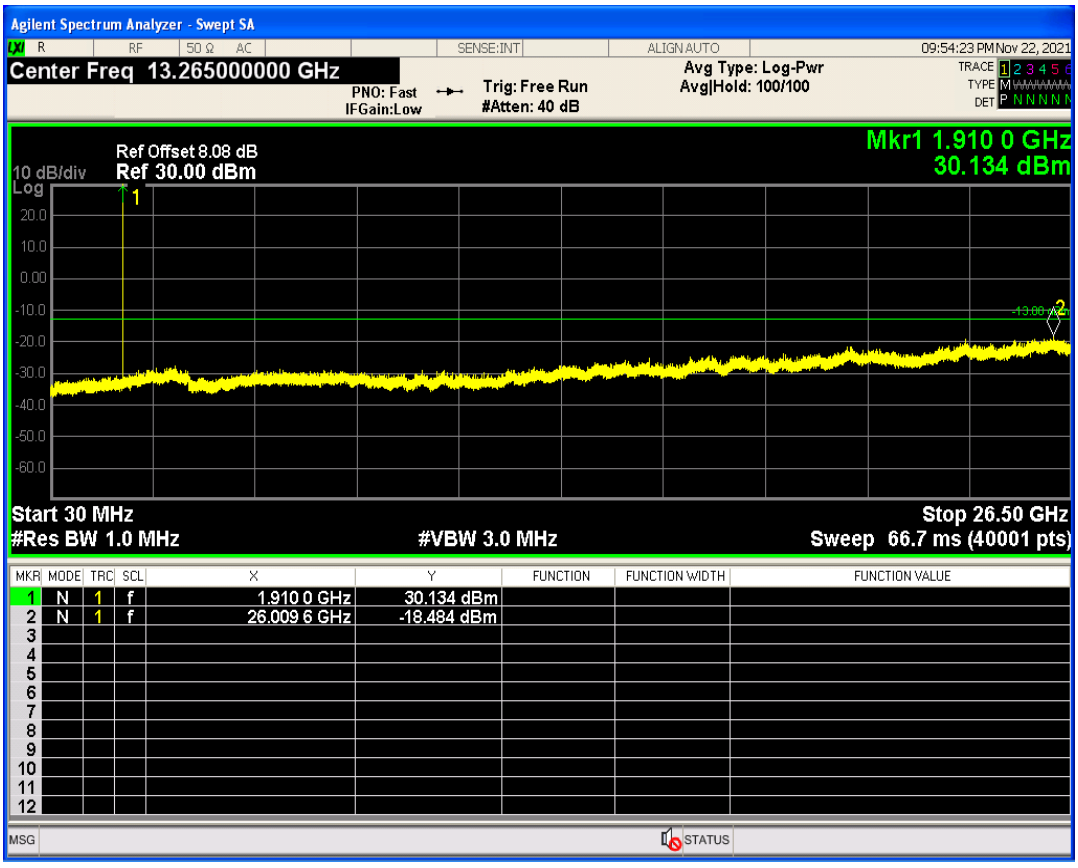
GPRS1900 Channel=661



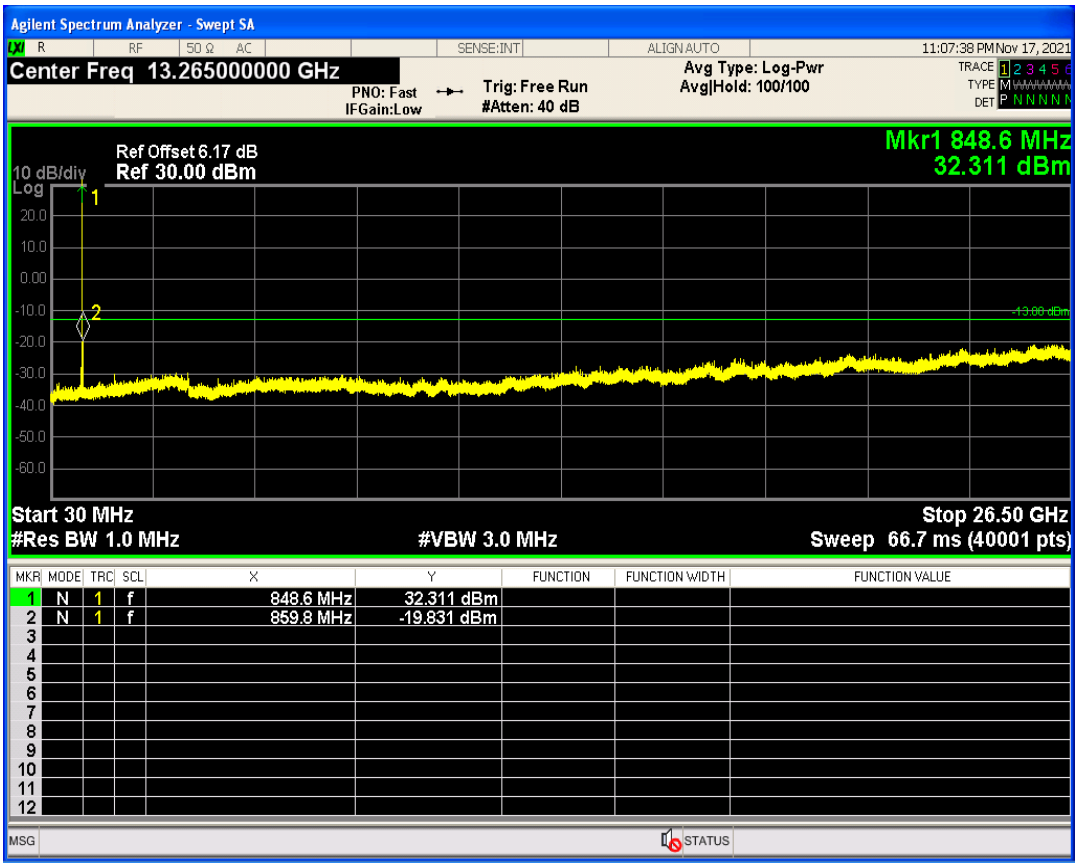
GPRS1900 Channel=512



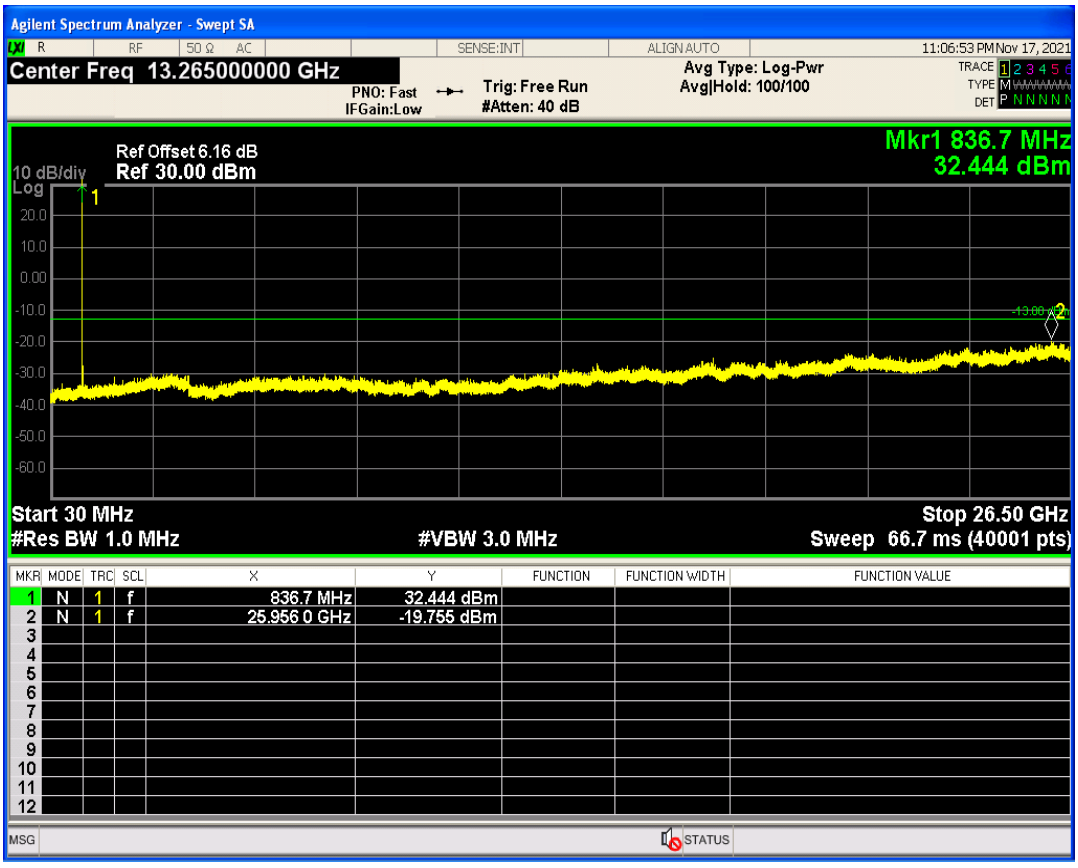
GPRS1900 Channel=810



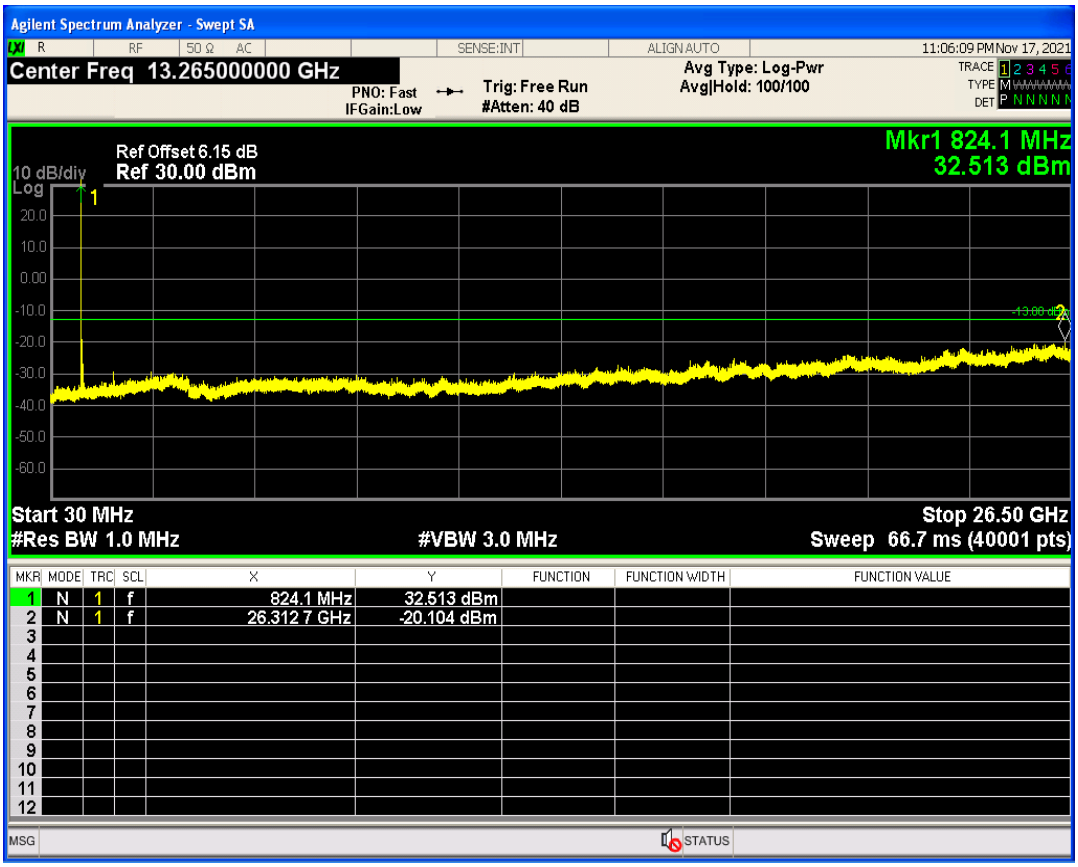
GPRS850 Channel=251



GPRS850 Channel=189



GPRS850 Channel=128



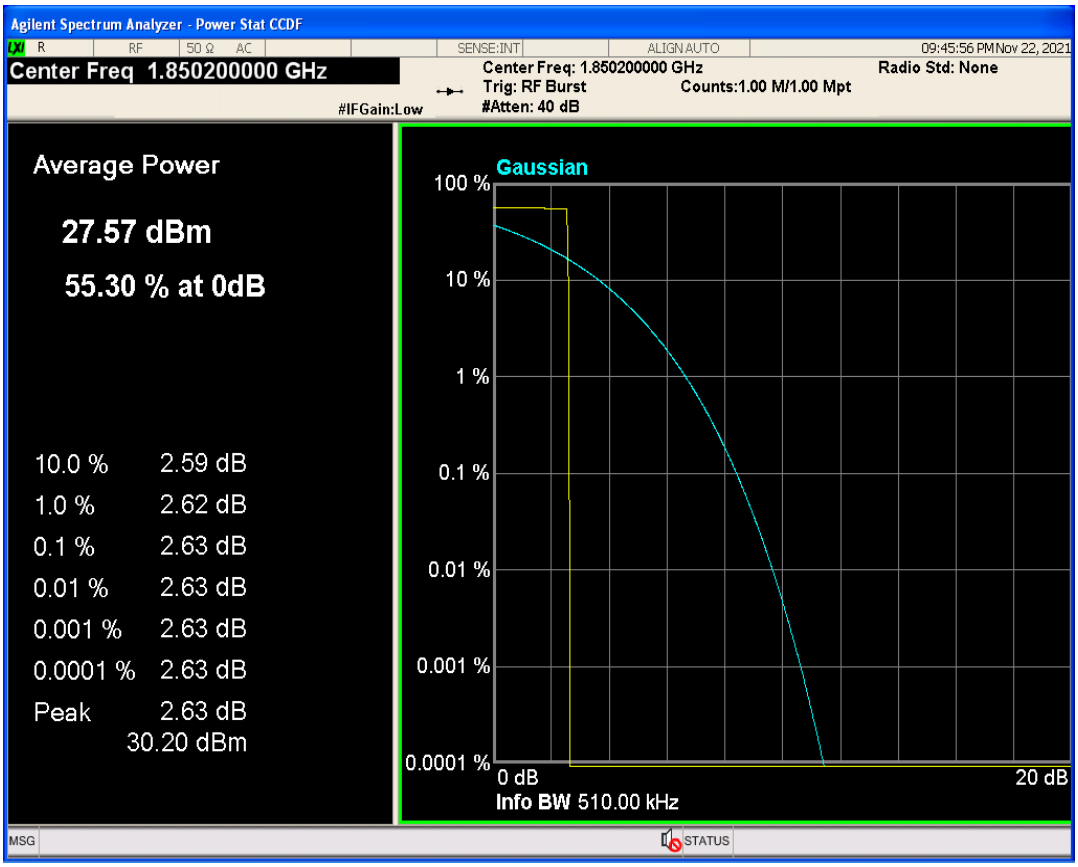
01 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
GSM1900	512	1850.2	29.51	PASS
GSM1900	661	1880	29.52	PASS
GSM1900	810	1909.8	29.44	PASS
GSM850	128	824.2	32.07	PASS
GSM850	189	836.4	32.22	PASS
GSM850	251	848.8	32.06	PASS

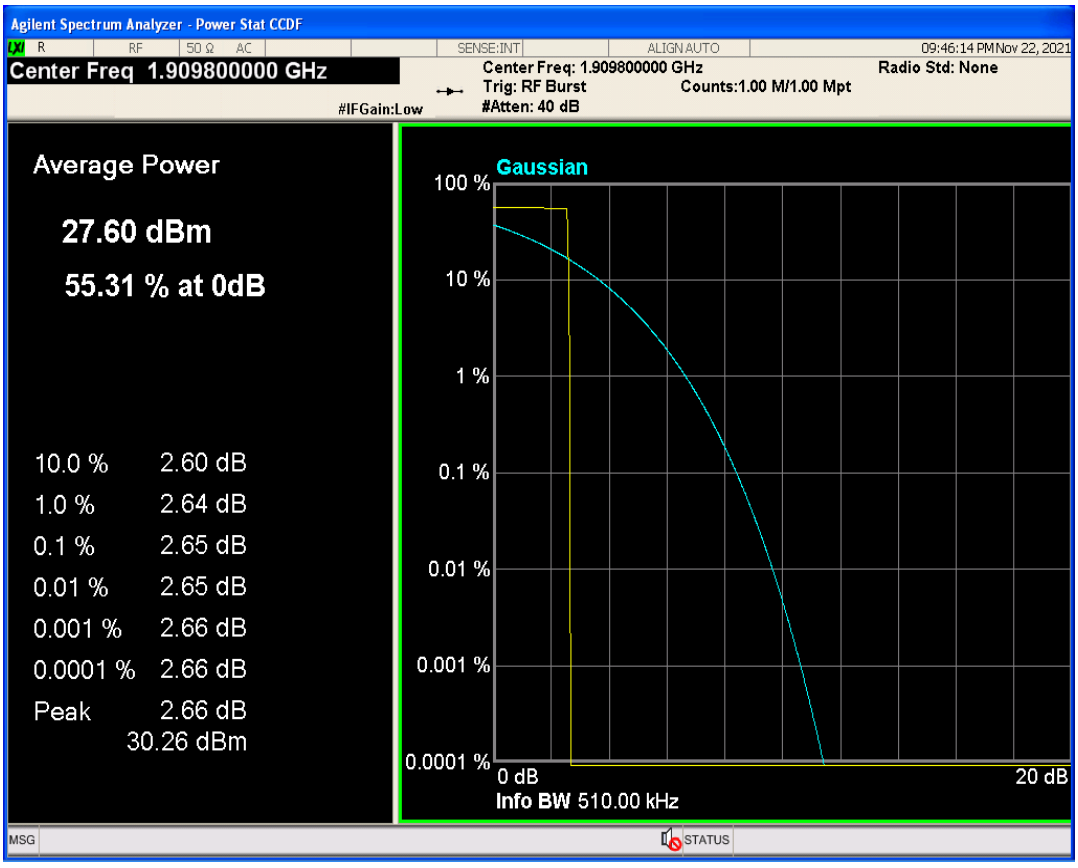
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GSM1900	512	1850.2	2.63	13	PASS
GSM1900	661	1880	2.63	13	PASS
GSM1900	810	1909.8	2.65	13	PASS
GSM850	128	824.2	2.63	13	PASS
GSM850	189	836.4	2.63	13	PASS
GSM850	251	848.8	2.63	13	PASS

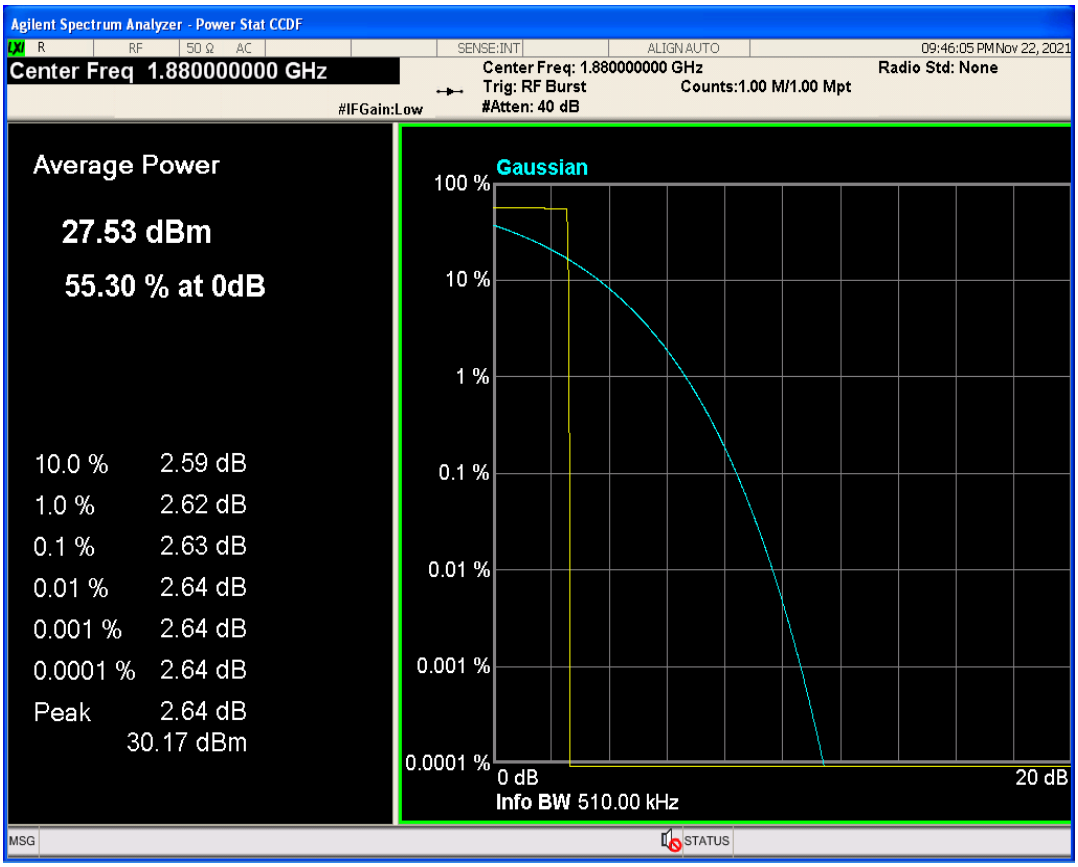
GSM1900 Channel=512



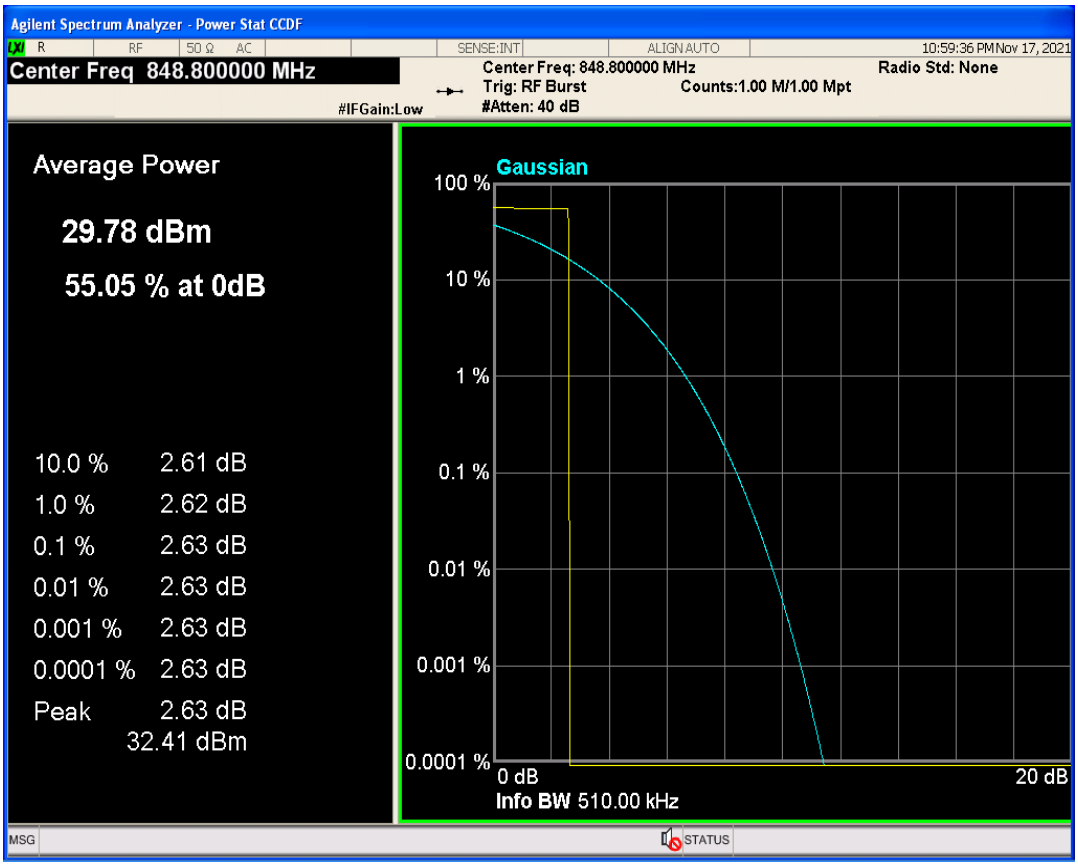
GSM1900 Channel=810



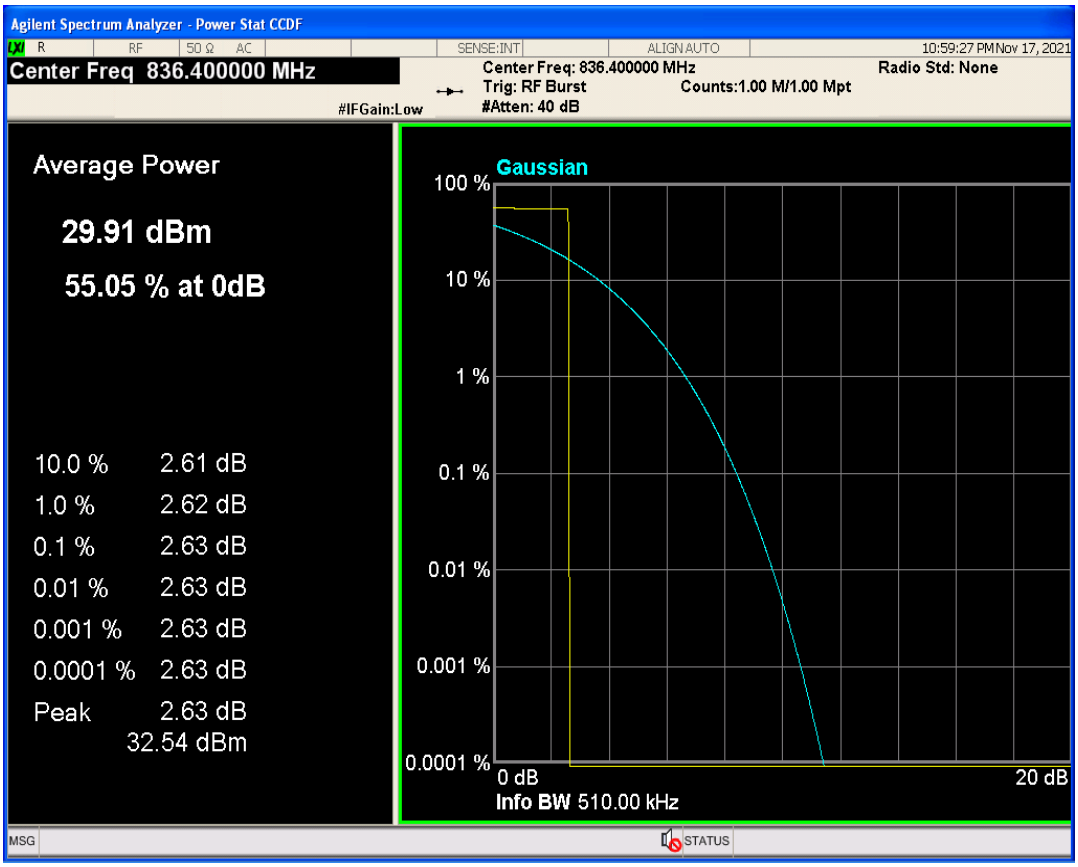
GSM1900 Channel=661



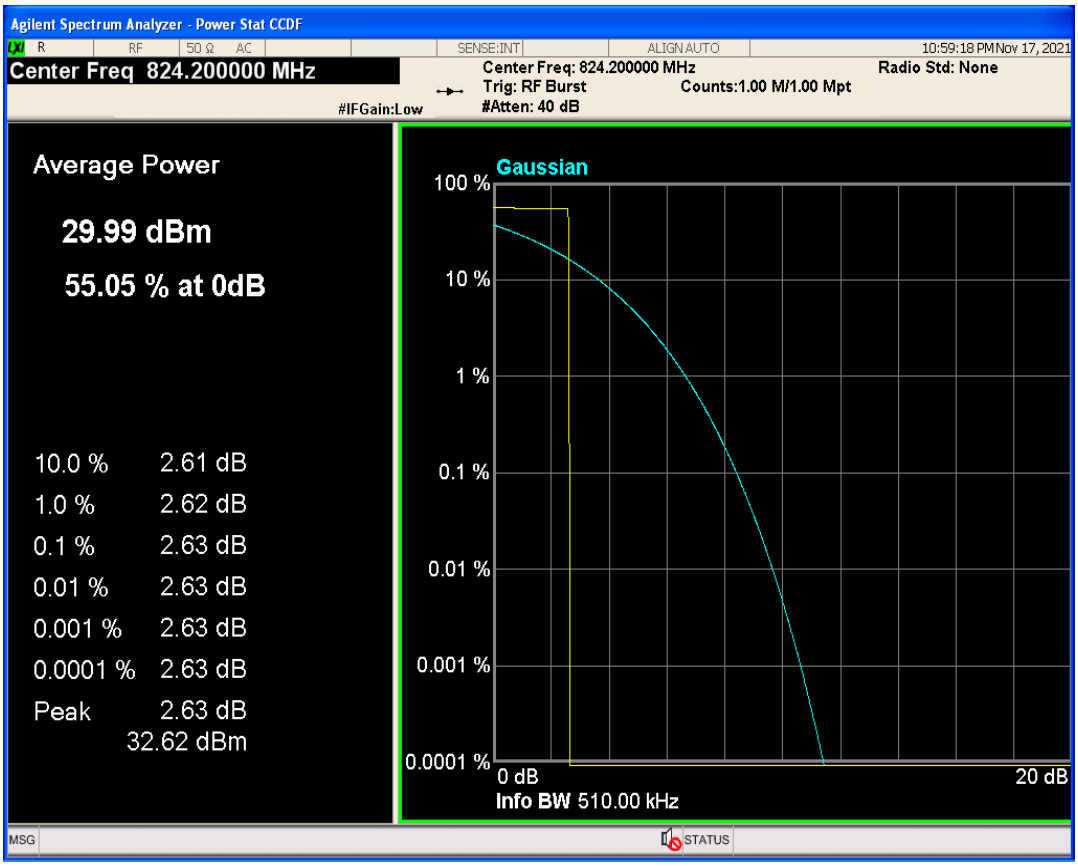
GSM850 Channel=251



GSM850 Channel=189



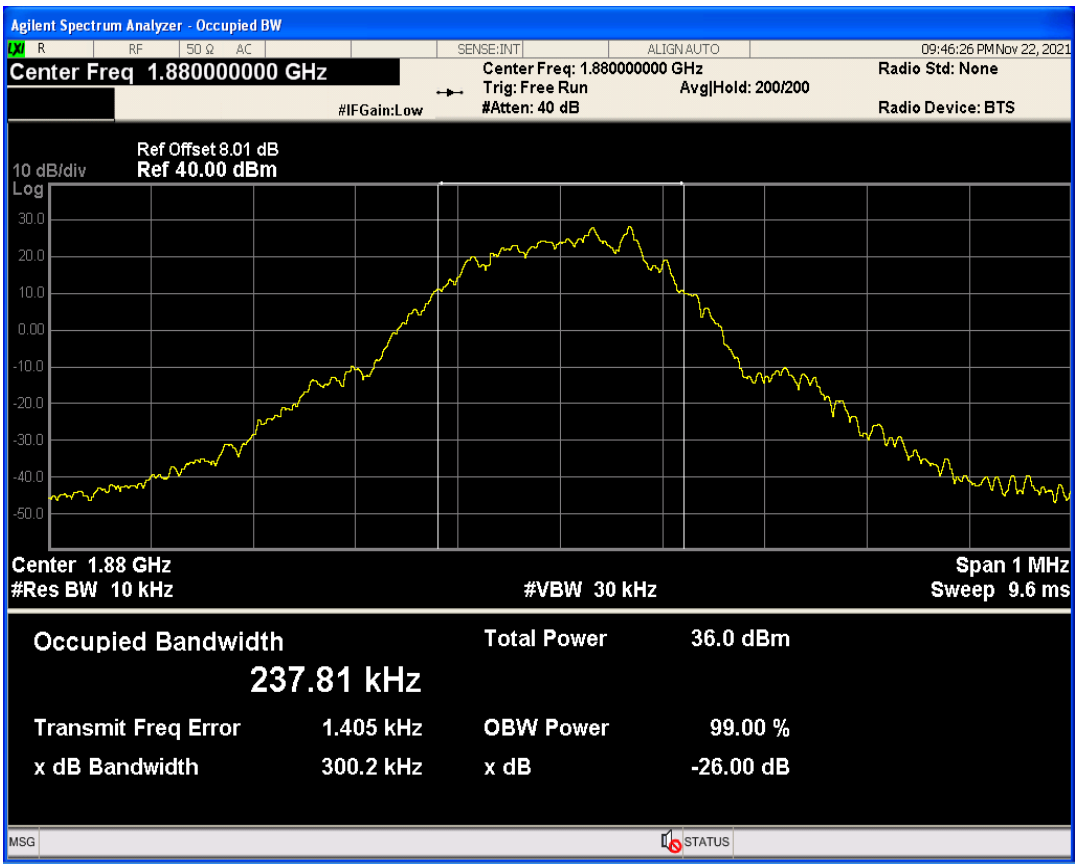
GSM850 Channel=128



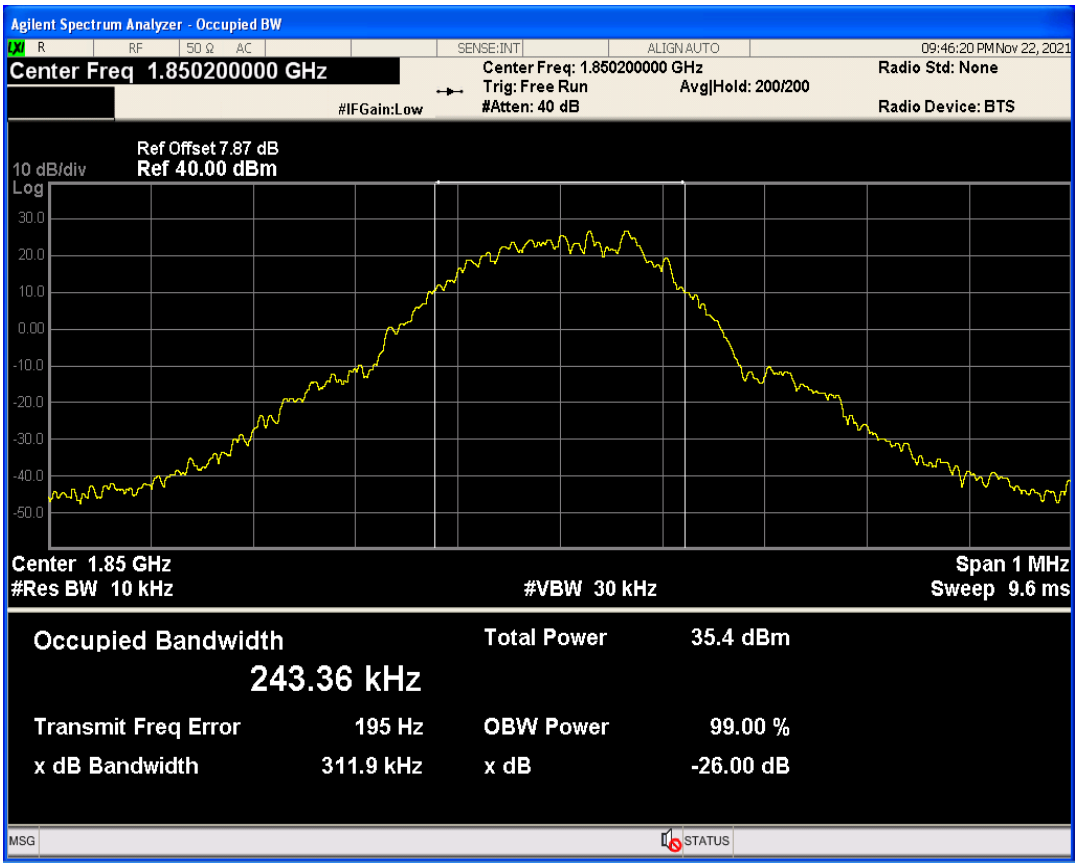
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GSM1900	512	1850.2	243.356	311.908	PASS
GSM1900	661	1880	237.805	300.183	PASS
GSM1900	810	1909.8	242.337	328.889	PASS
GSM850	128	824.2	241.725	319.271	PASS
GSM850	189	836.4	244.939	313.658	PASS
GSM850	251	848.8	245.620	311.571	PASS

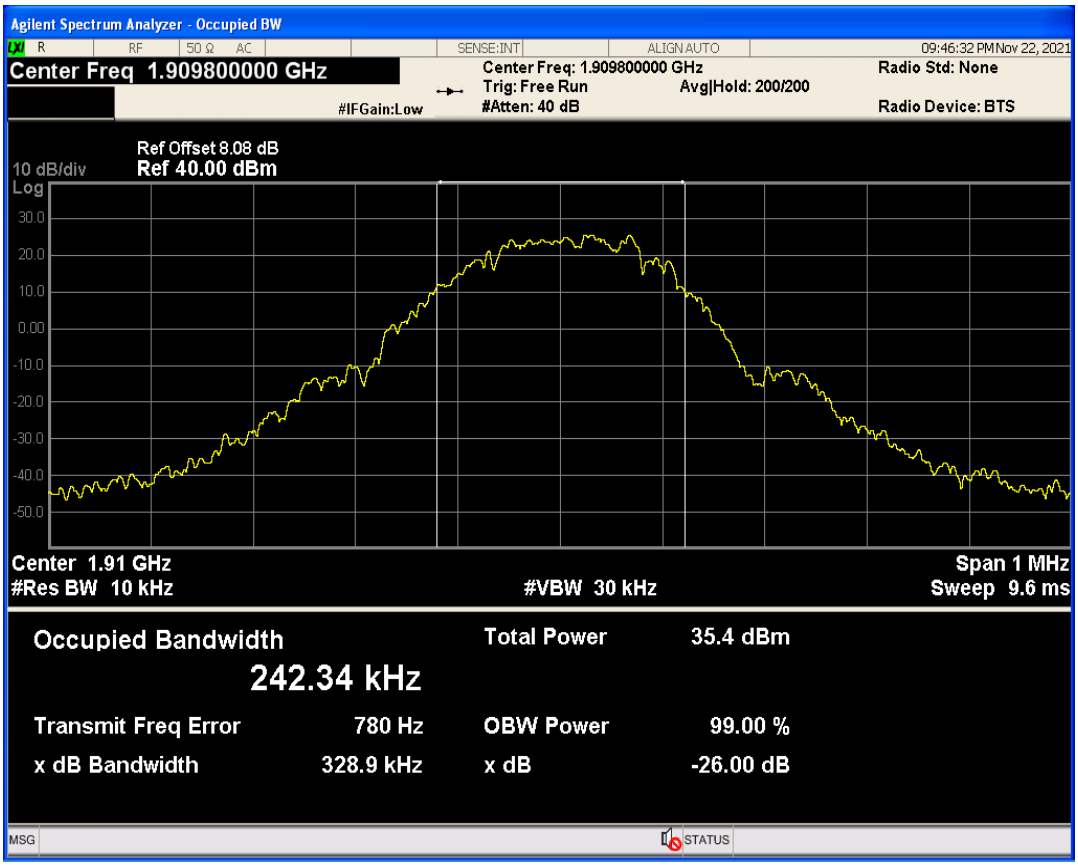
GSM1900 Channel=661



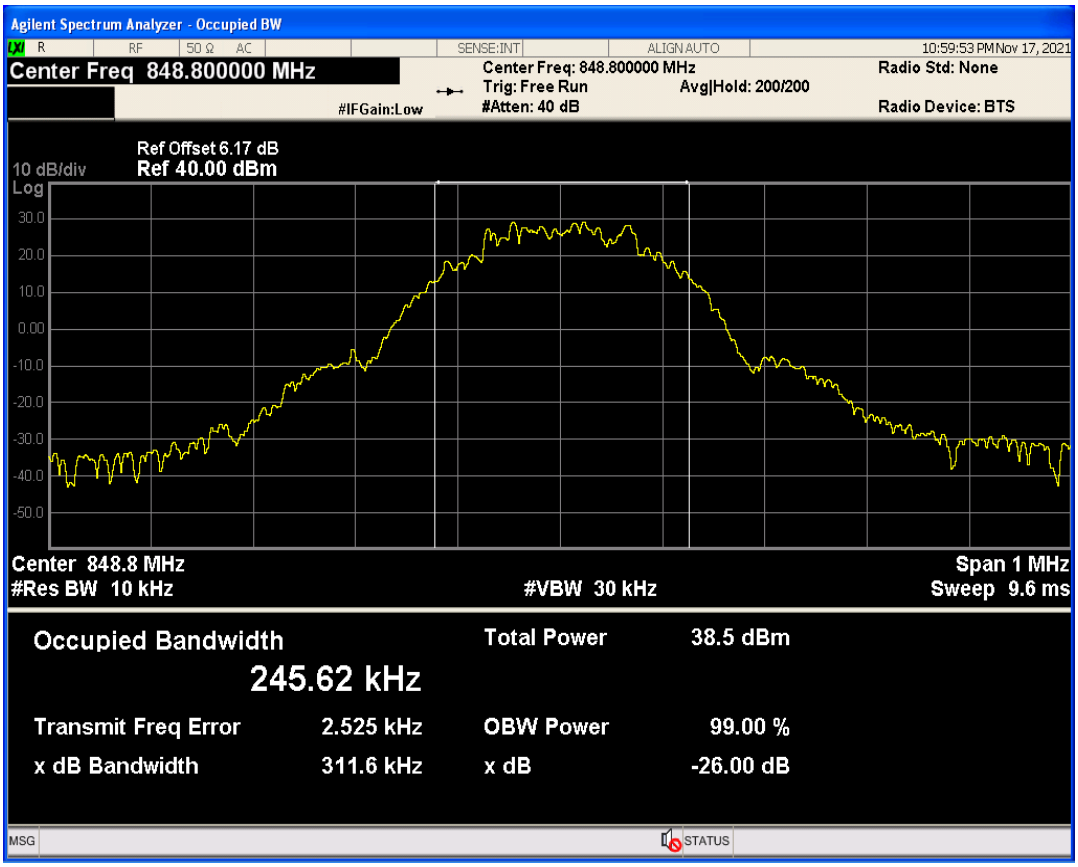
GSM1900 Channel=512



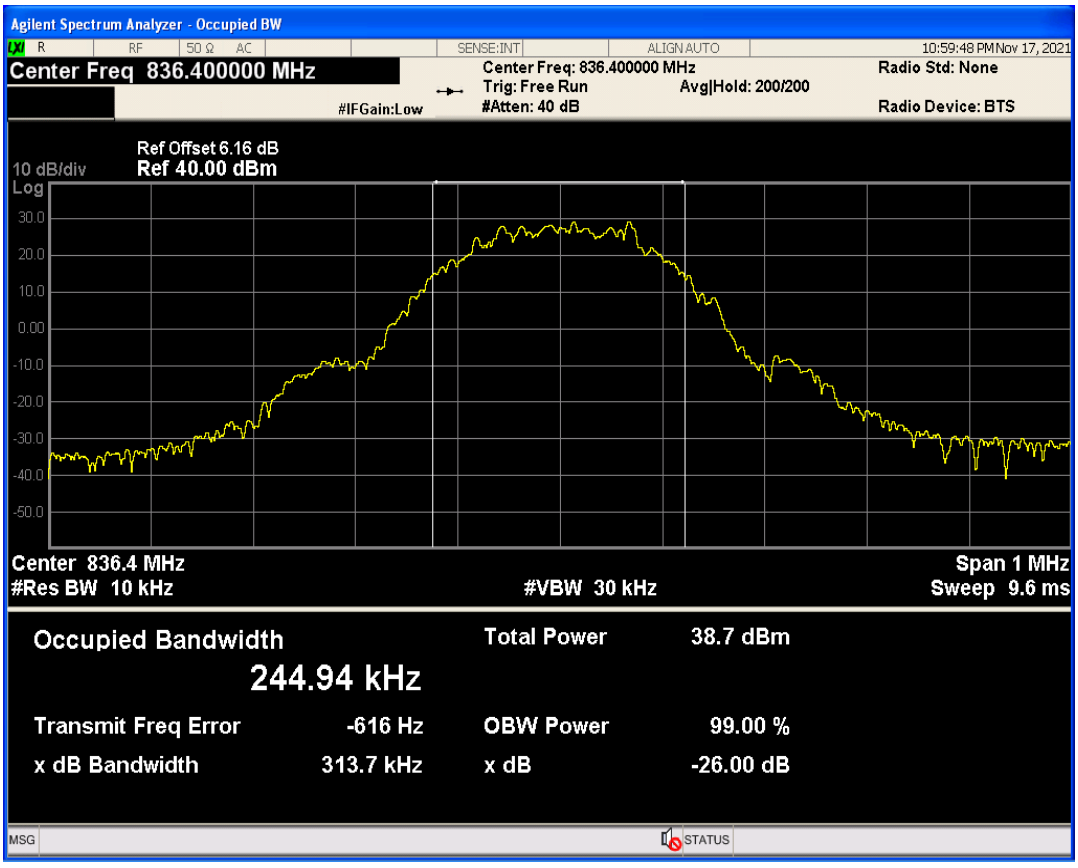
GSM1900 Channel=810



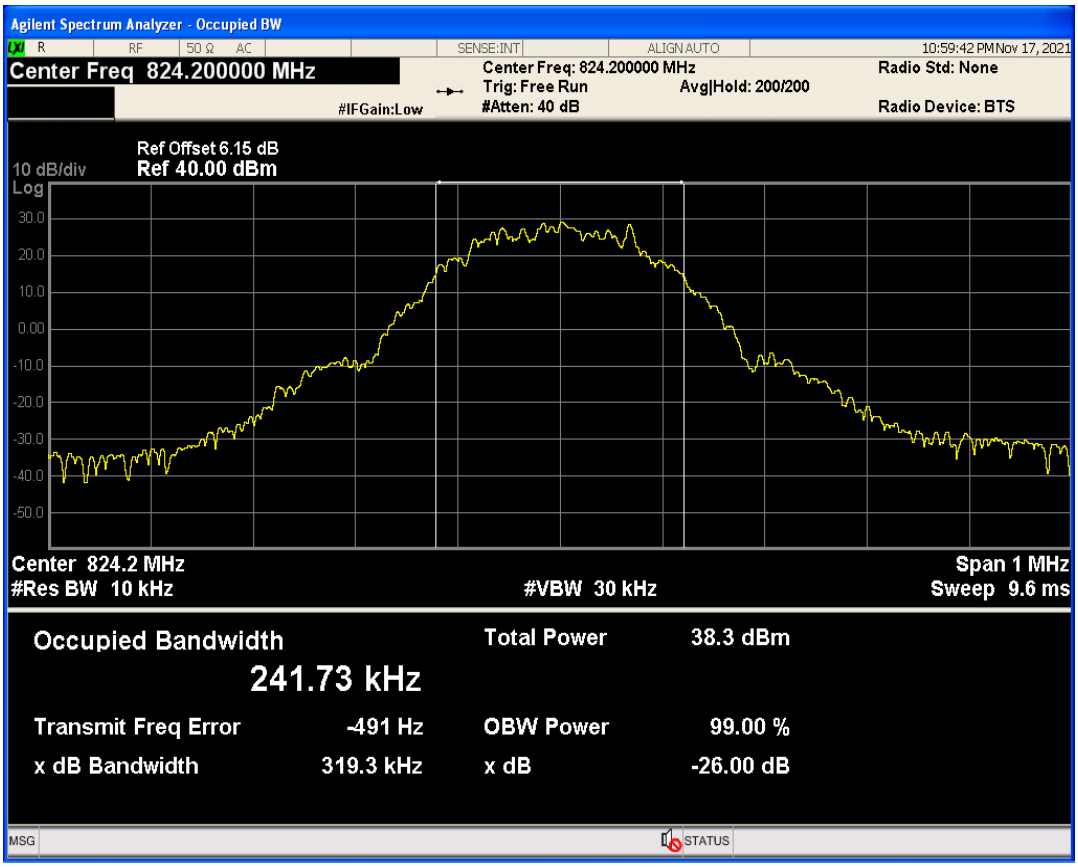
GSM850 Channel=251



GSM850 Channel=189



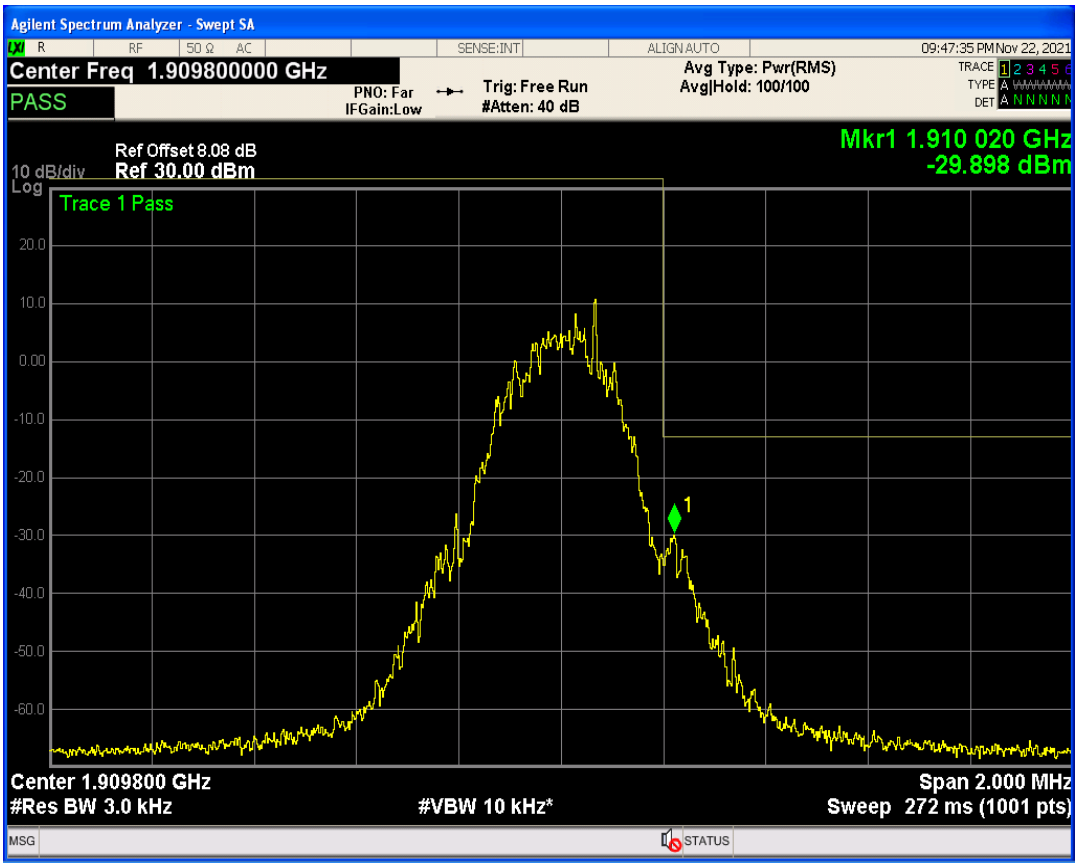
GSM850 Channel=128



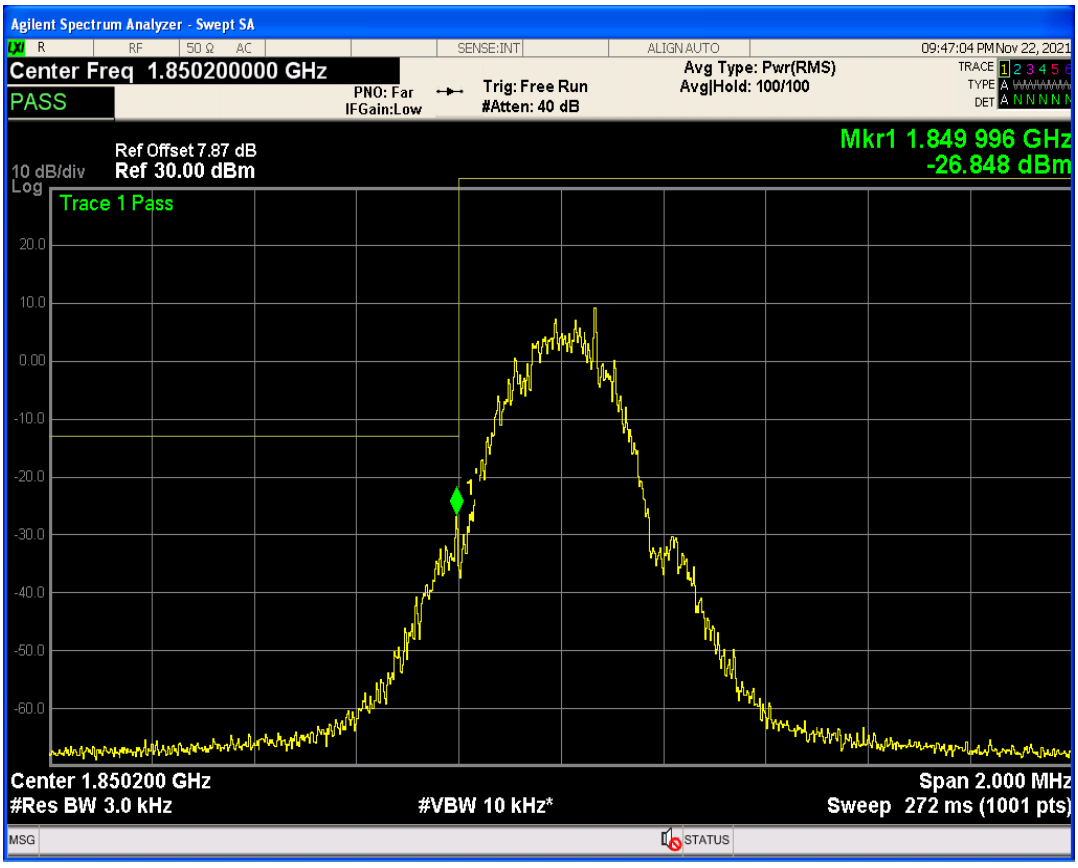
05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	1850.00	-26.84	-13	PASS
GSM1900	810	1909.8	1910.02	-29.89	-13	PASS
GSM850	128	824.2	823.98	-25.68	-13	PASS
GSM850	251	848.8	849.02	-27.68	-13	PASS

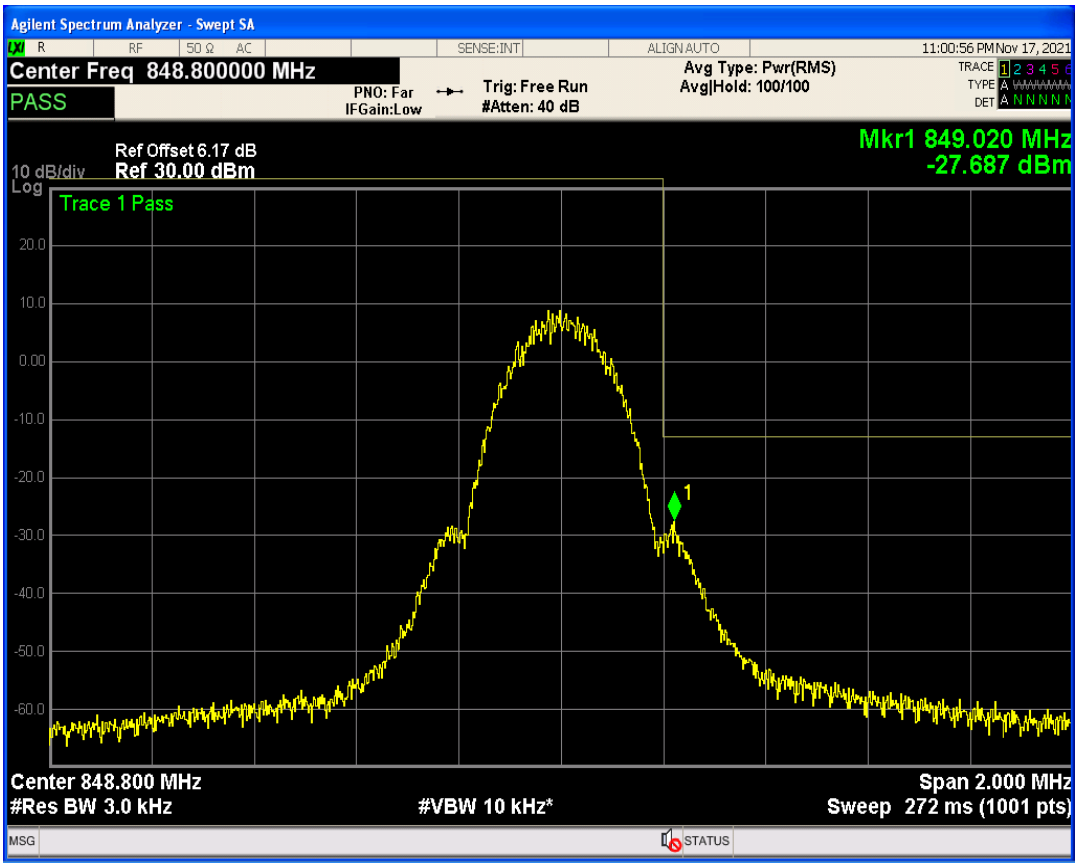
GSM1900 Channel=810



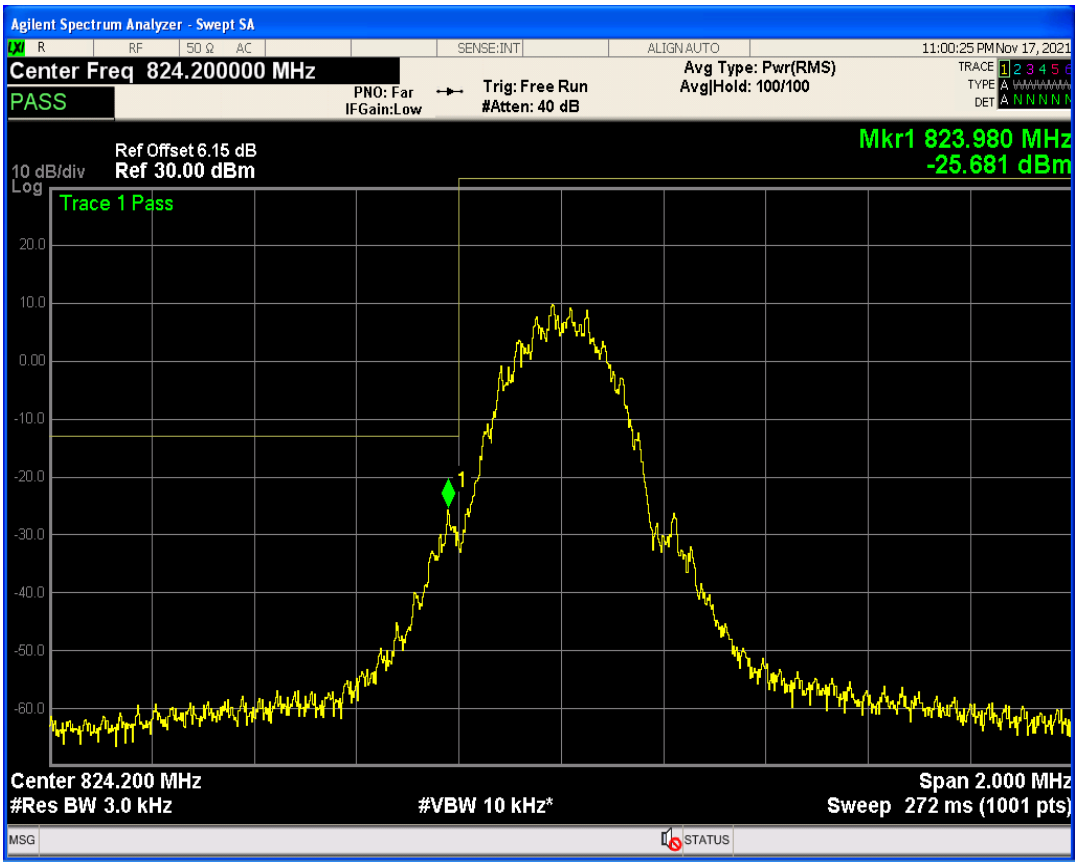
GSM1900 Channel=512



GSM850 Channel=251



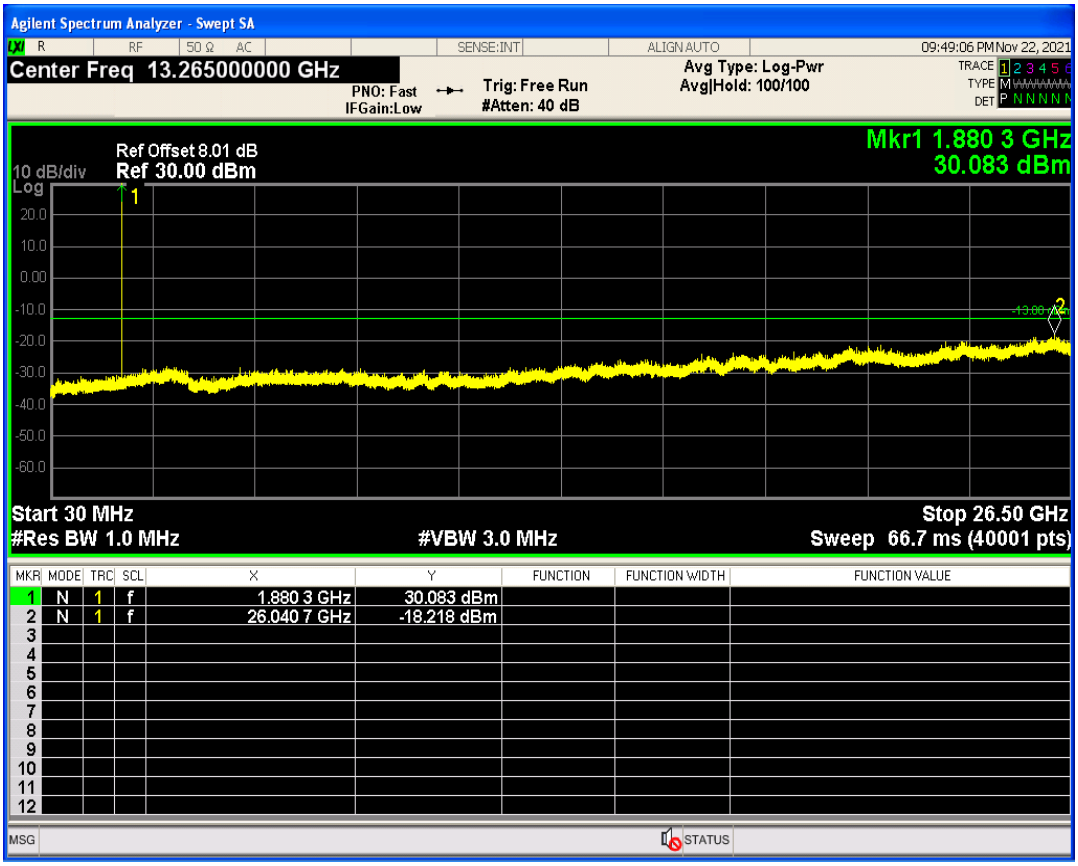
GSM850 Channel=128



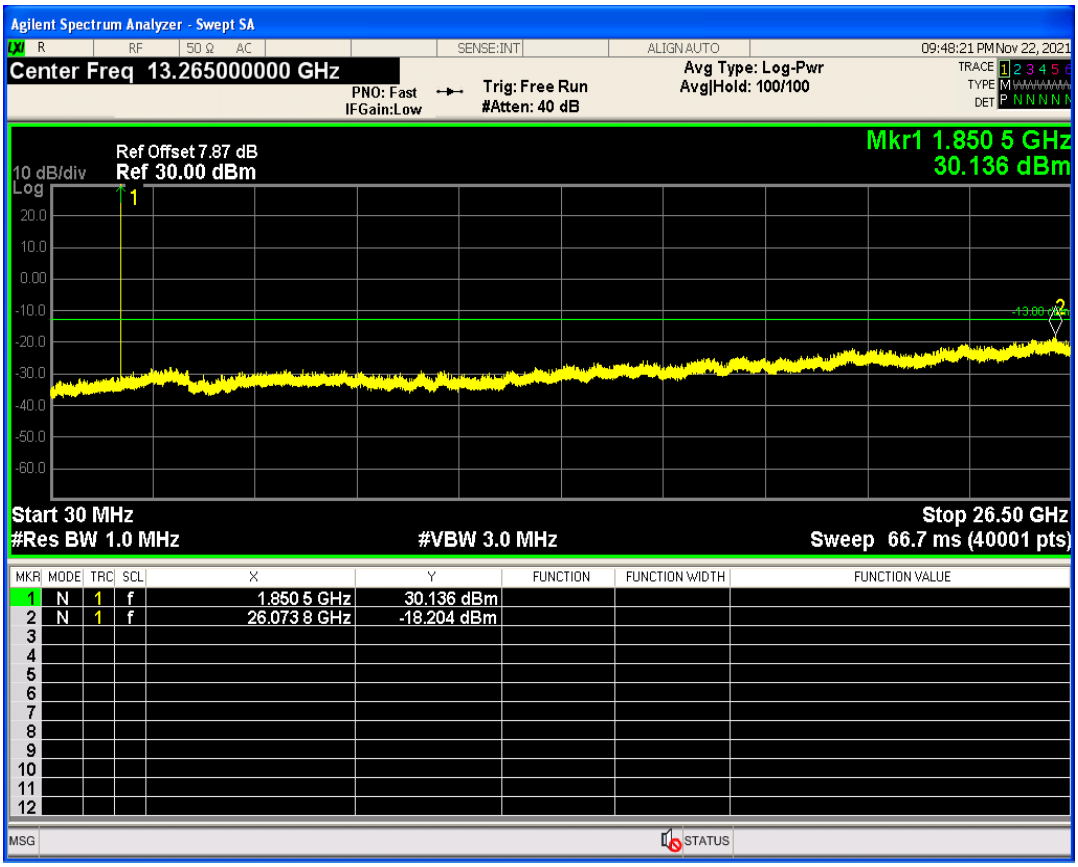
06 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GSM1900	512	1850.2	26073.83	-18.20	-13	PASS
GSM1900	661	1880	26040.75	-18.21	-13	PASS
GSM1900	810	1909.8	26042.73	-17.78	-13	PASS
GSM850	128	824.2	816.16	-19.74	-13	PASS
GSM850	189	836.4	25481.57	-19.81	-13	PASS
GSM850	251	848.8	26069.86	-20.23	-13	PASS

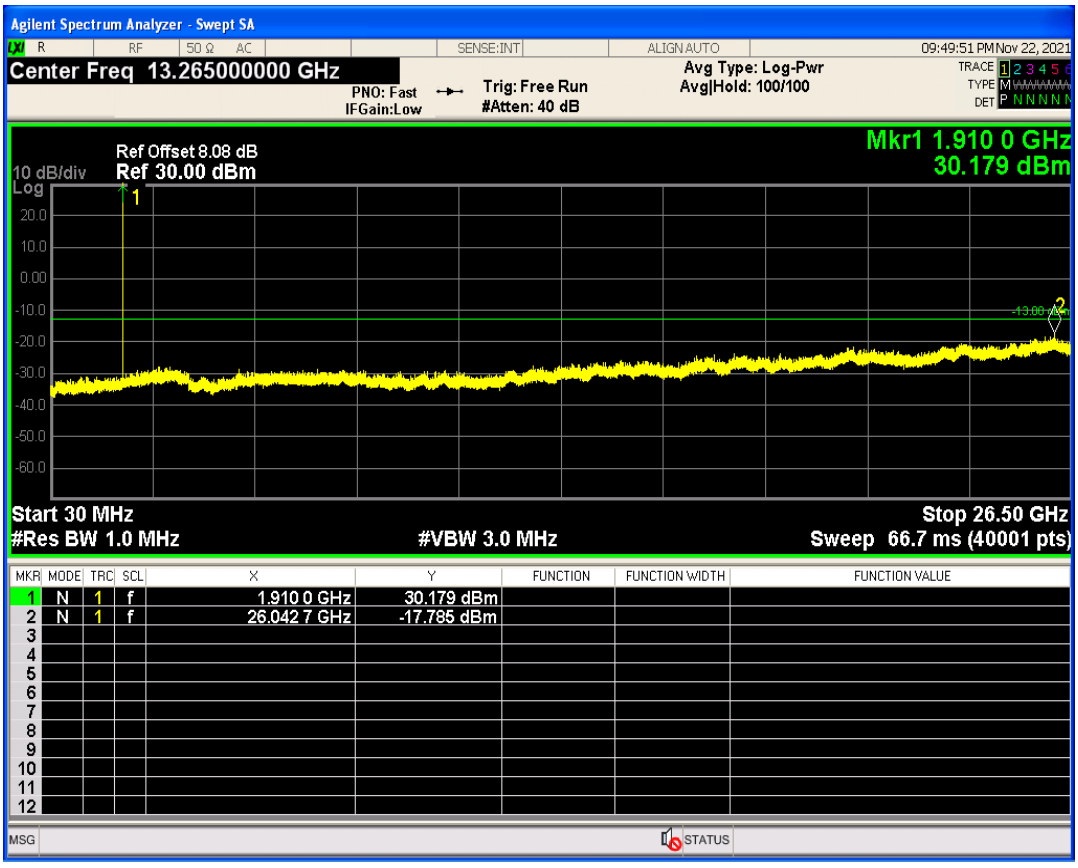
GSM1900 Channel=661



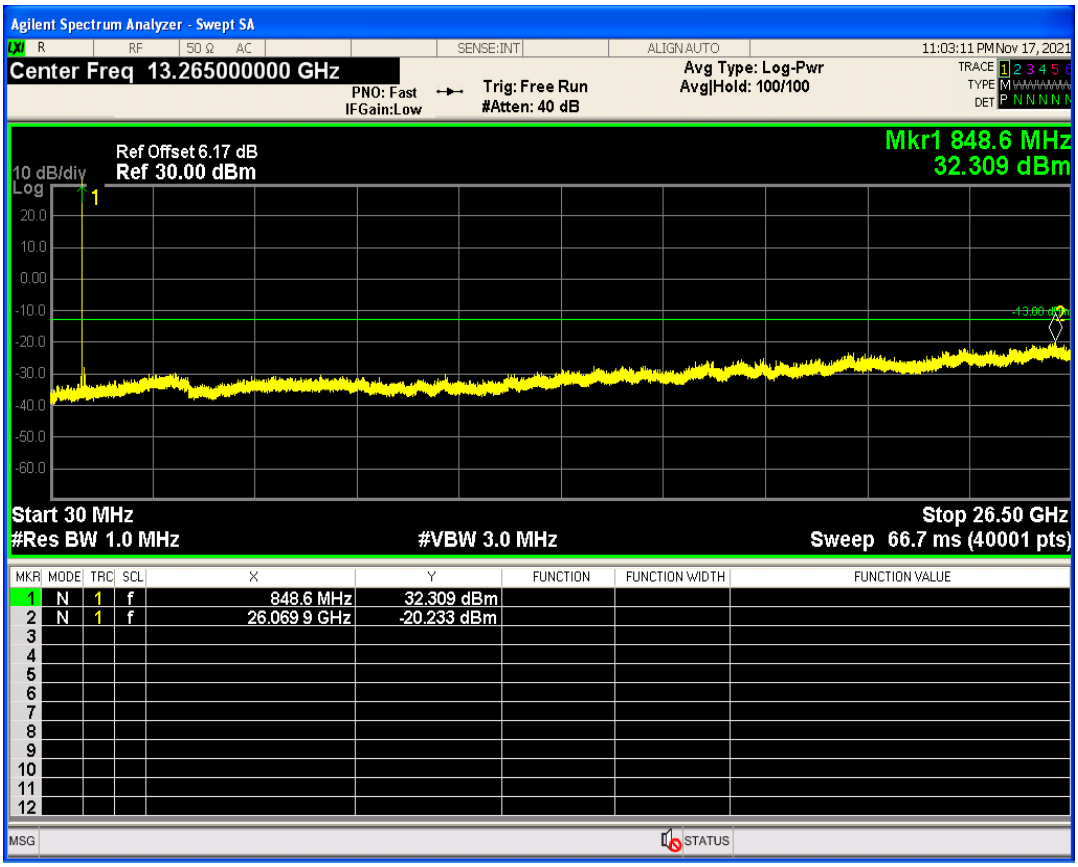
GSM1900 Channel=512



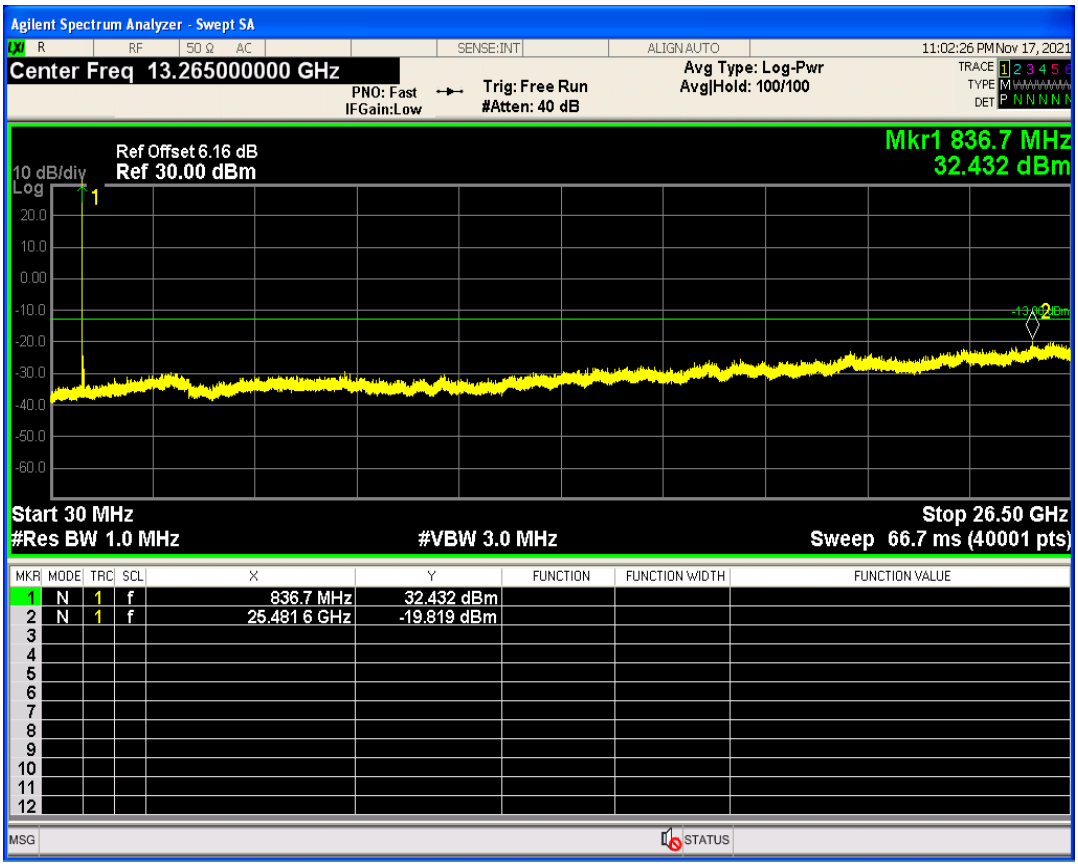
GSM1900 Channel=810



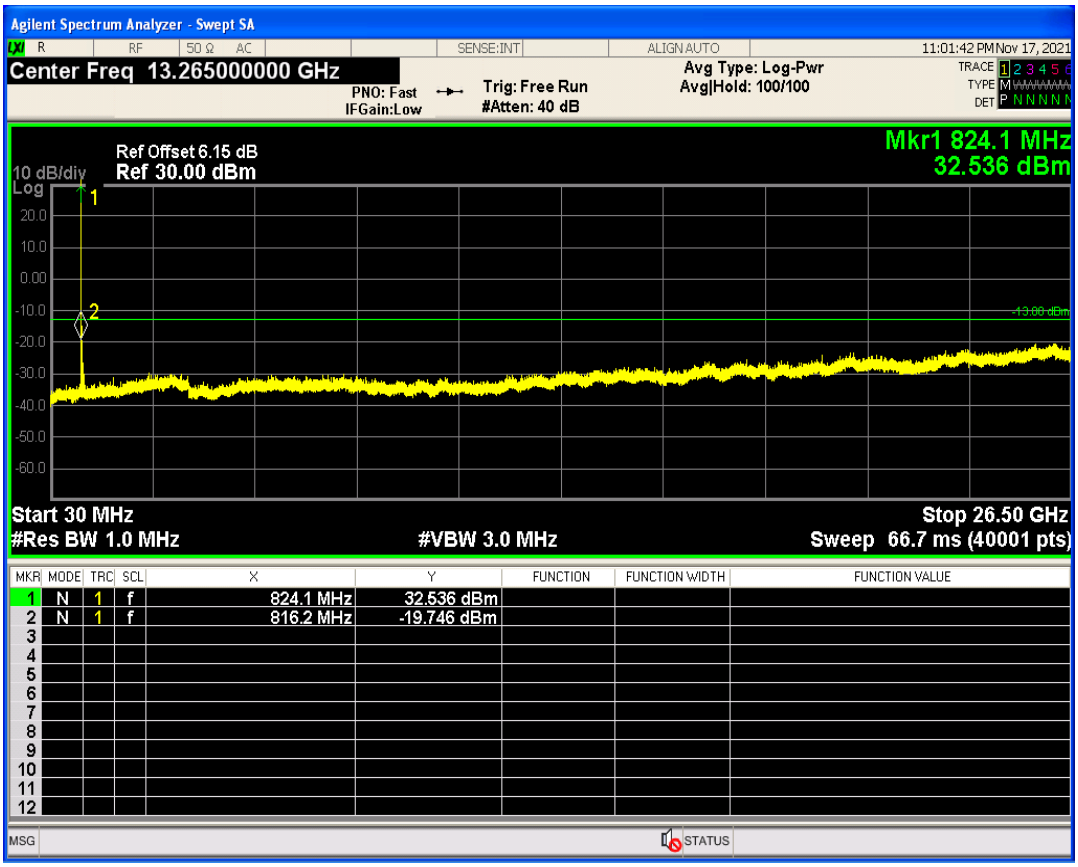
GSM850 Channel=251



GSM850 Channel=189



GSM850 Channel=128


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
11:01:42 PM Nov 17, 2021
Ref Offset 6.15 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr1 824.1 MHz
32.536 dBm
-13.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 26.50 GHz
Sweep 66.7 ms (40001 pts)
1 N 1 f 824.1 MHz 32.536 dBm
2 N 1 f 816.2 MHz -19.746 dBm
MSG
STATUS

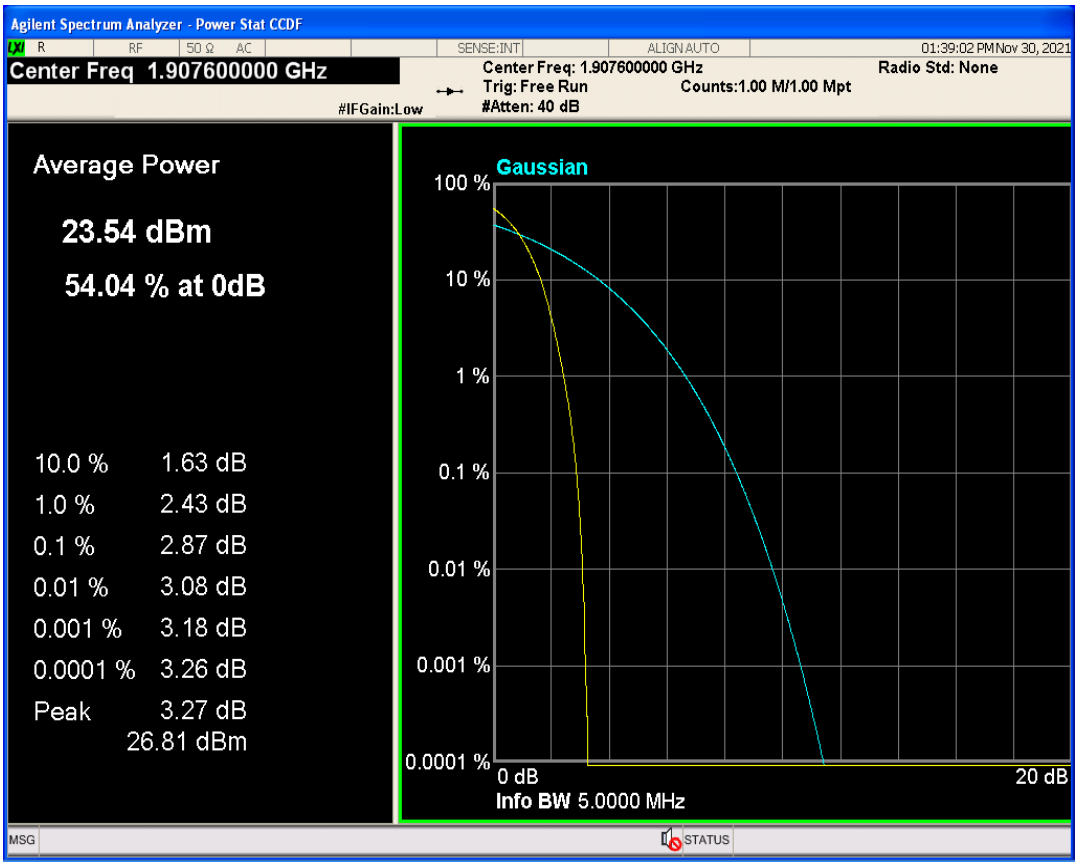
01 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
WCDMA Band2	9262	1852.4	23.13	PASS
WCDMA Band2	9400	1880	23.10	PASS
WCDMA Band2	9538	1907.6	23.02	PASS
WCDMA Band5	4132	826.4	22.71	PASS
WCDMA Band5	4182	836.4	22.52	PASS
WCDMA Band5	4233	846.6	22.50	PASS

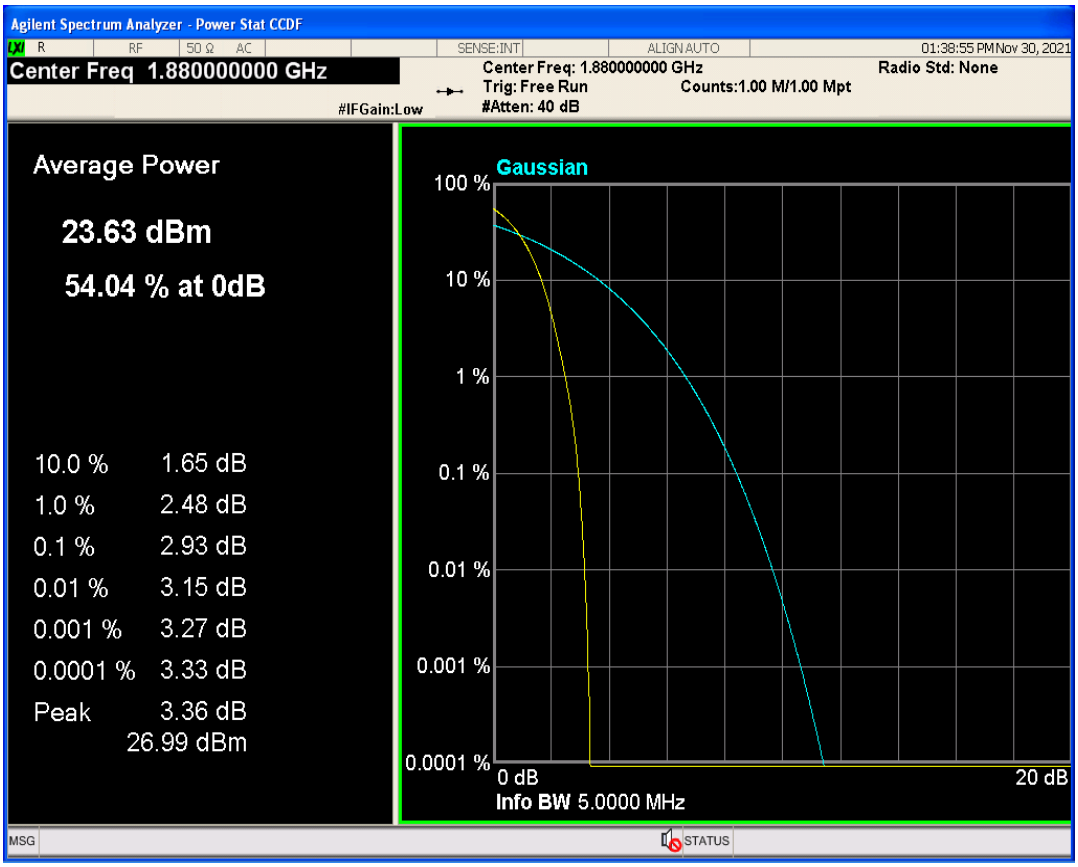
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
WCDMA Band2	9262	1852.4	2.99	13	PASS
WCDMA Band2	9400	1880	2.93	13	PASS
WCDMA Band2	9538	1907.6	2.87	13	PASS
WCDMA Band5	4132	826.4	2.78	13	PASS
WCDMA Band5	4182	836.4	2.33	13	PASS
WCDMA Band5	4233	846.6	2.69	13	PASS

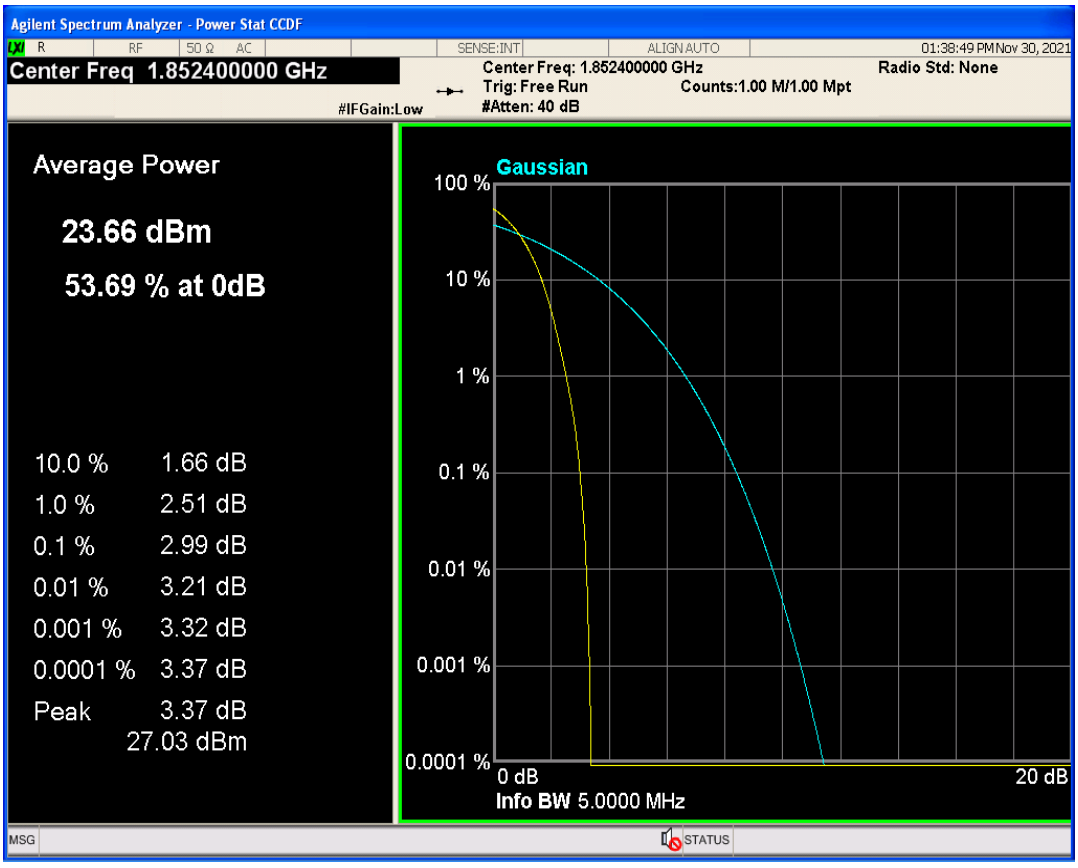
WCDMA Band2 Channel=9538



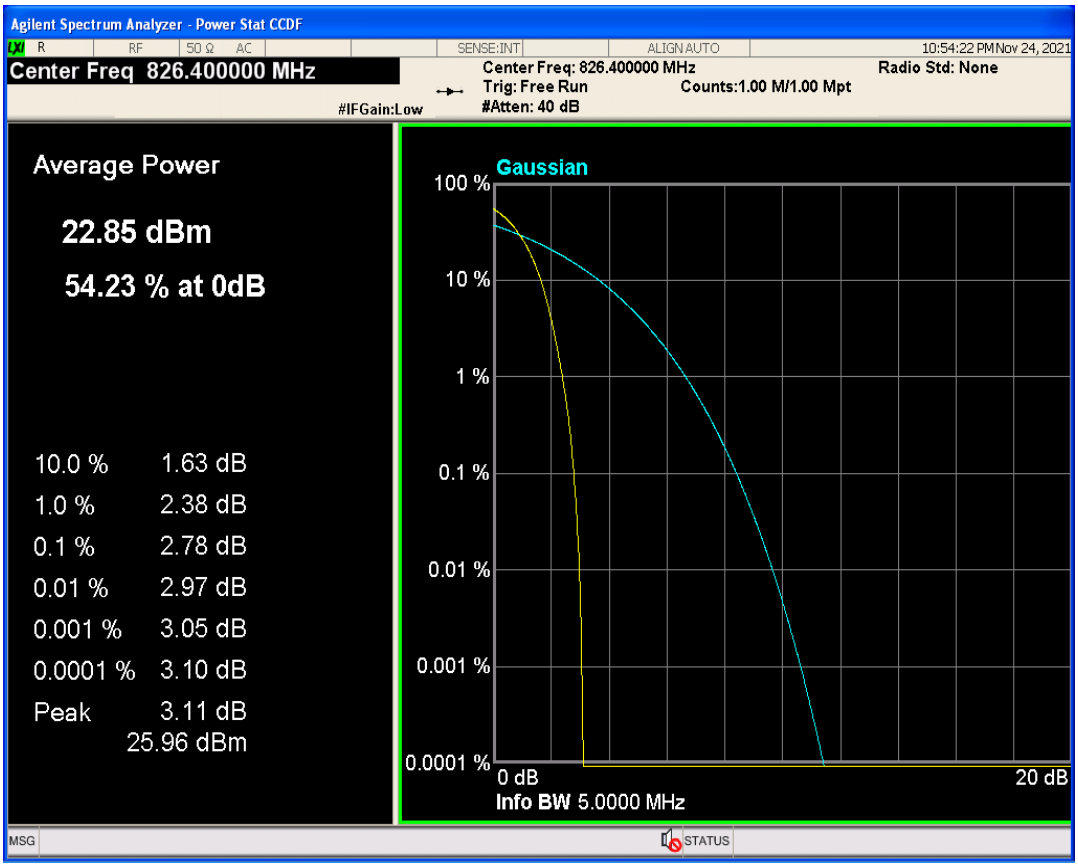
WCDMA Band2 Channel=9400



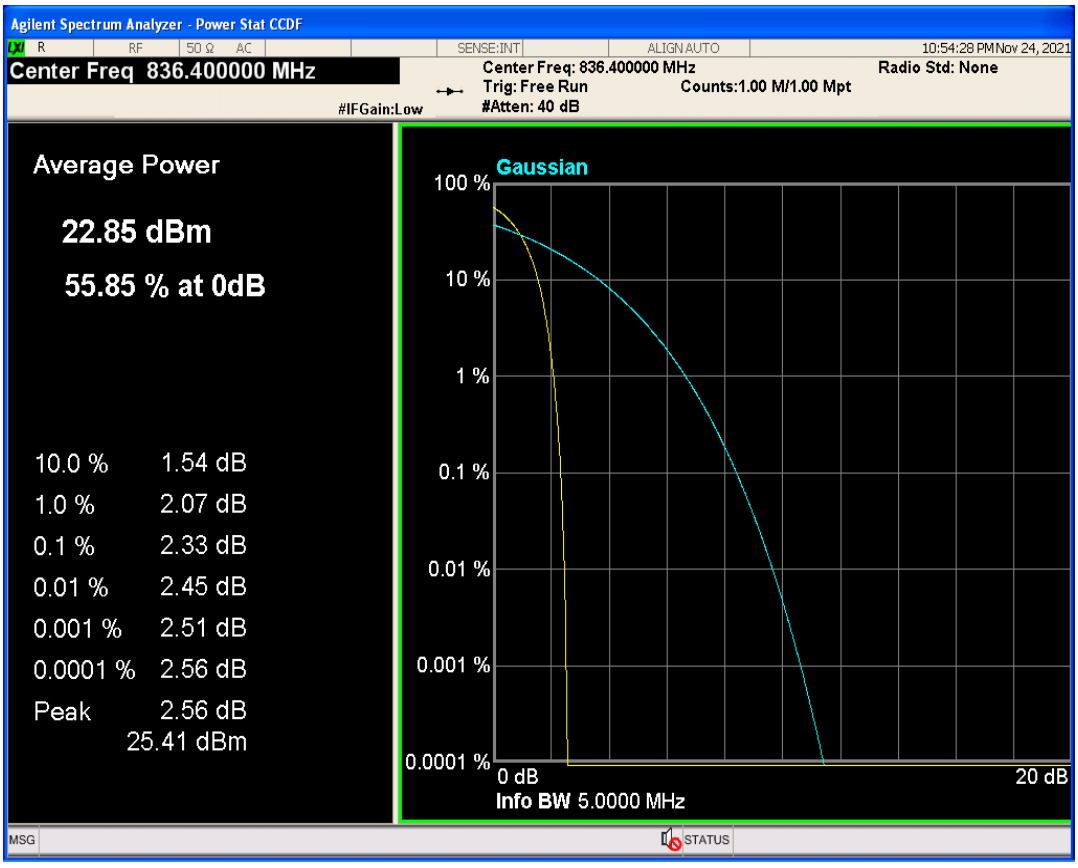
WCDMA Band2 Channel=9262



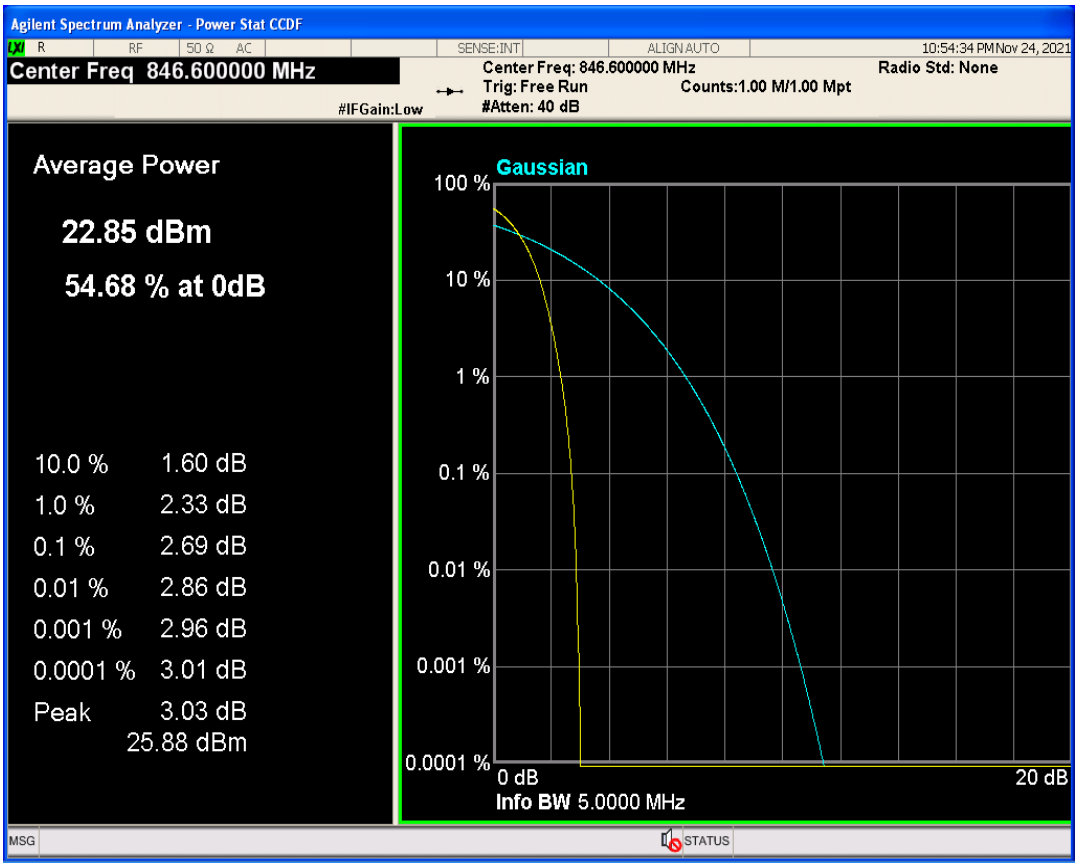
WCDMA Band5 Channel=4132



WCDMA Band5 Channel=4182



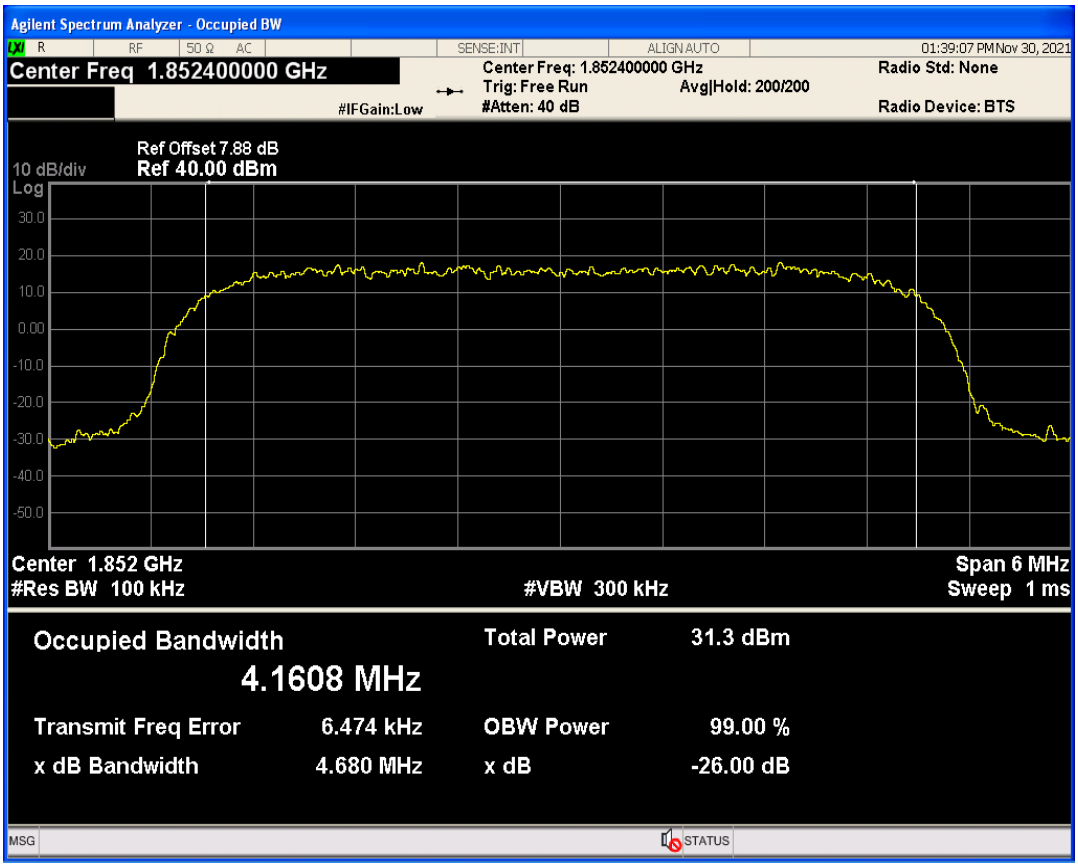
WCDMA Band5 Channel=4233



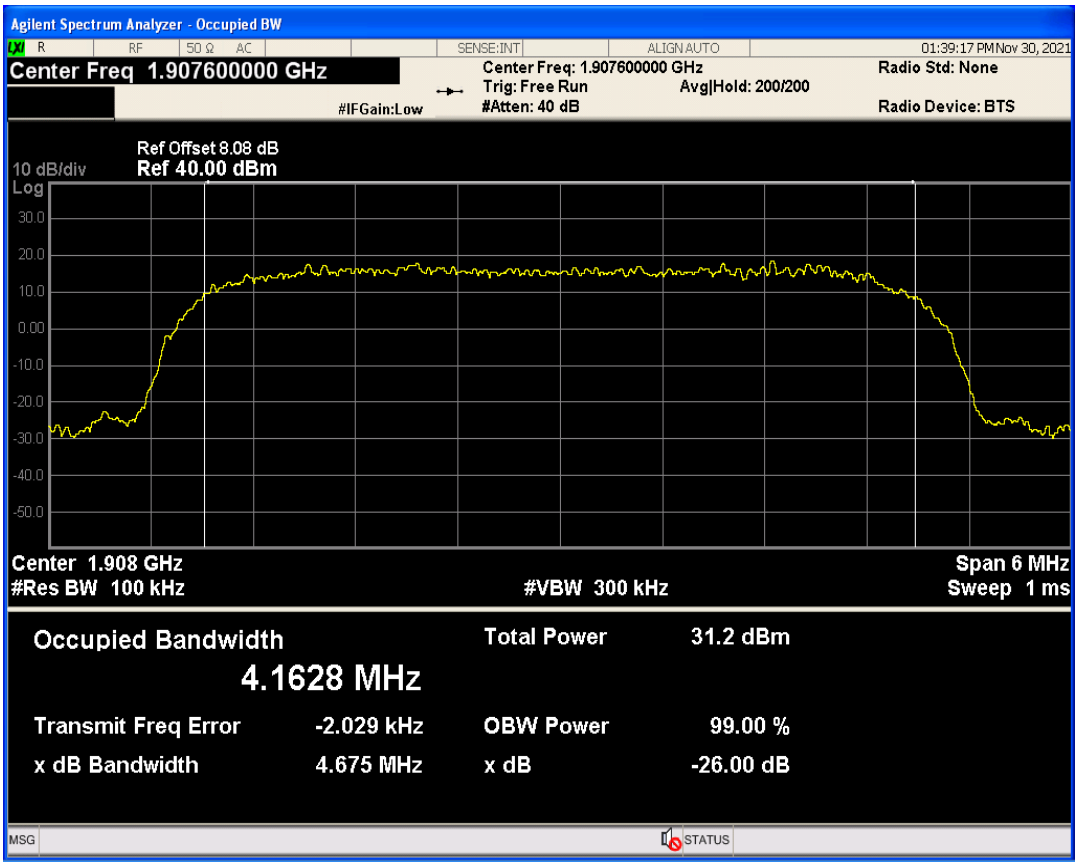
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
WCDMA Band2	9262	1852.4	4160.781	4680.056	PASS
WCDMA Band2	9400	1880	4134.707	4670.760	PASS
WCDMA Band2	9538	1907.6	4162.804	4674.516	PASS
WCDMA Band5	4132	826.4	4164.745	4684.409	PASS
WCDMA Band5	4182	836.4	4162.297	4705.620	PASS
WCDMA Band5	4233	846.6	4154.880	4704.730	PASS

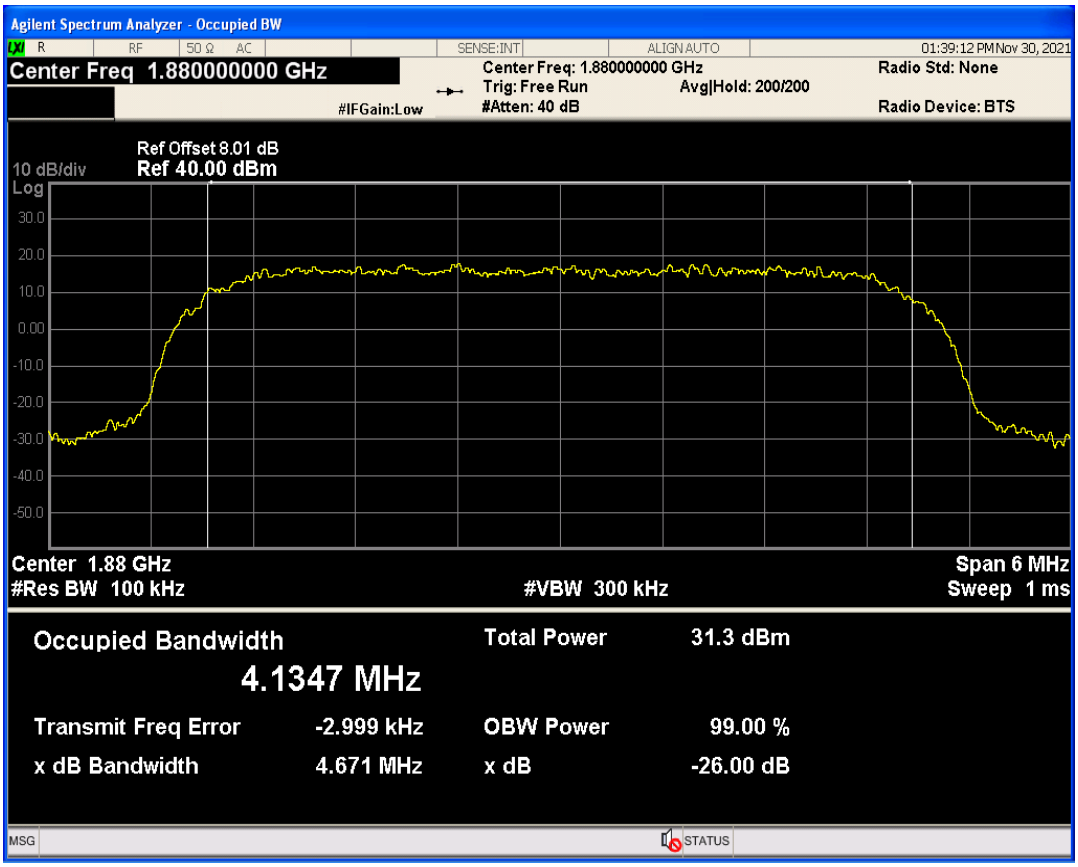
WCDMA Band2 Channel=9262



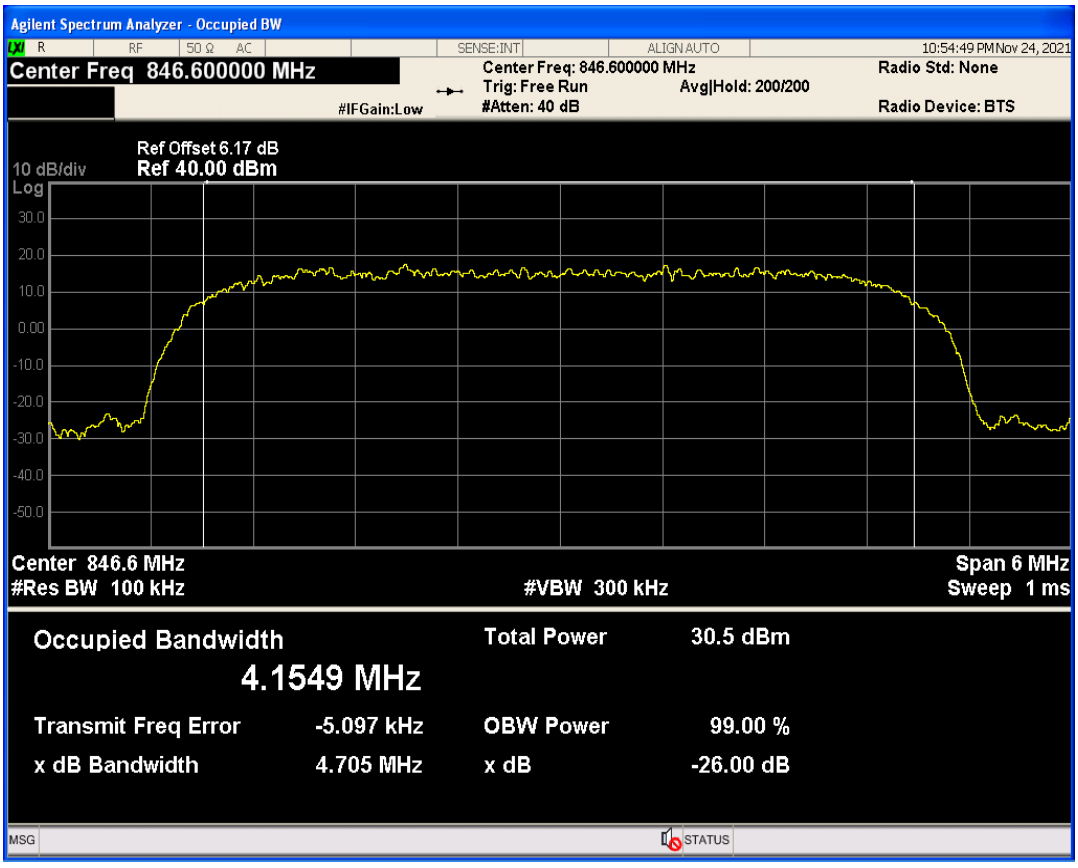
WCDMA Band2 Channel=9538



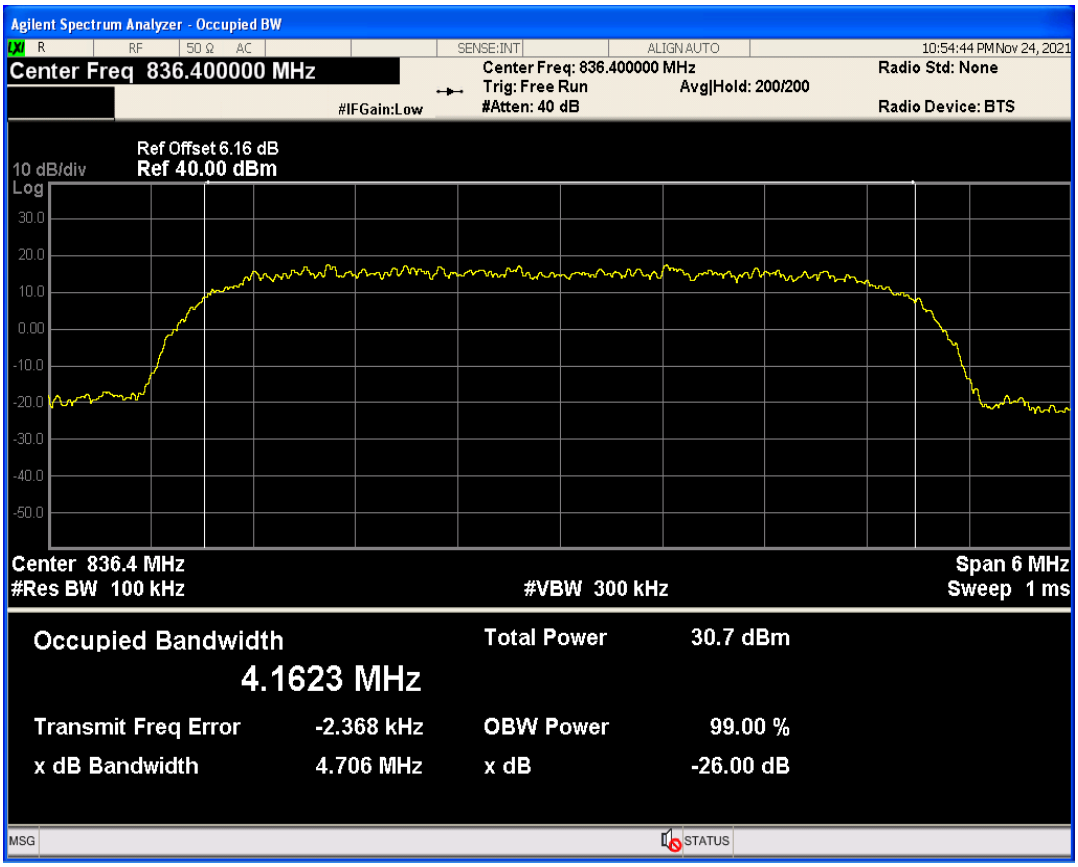
WCDMA Band2 Channel=9400



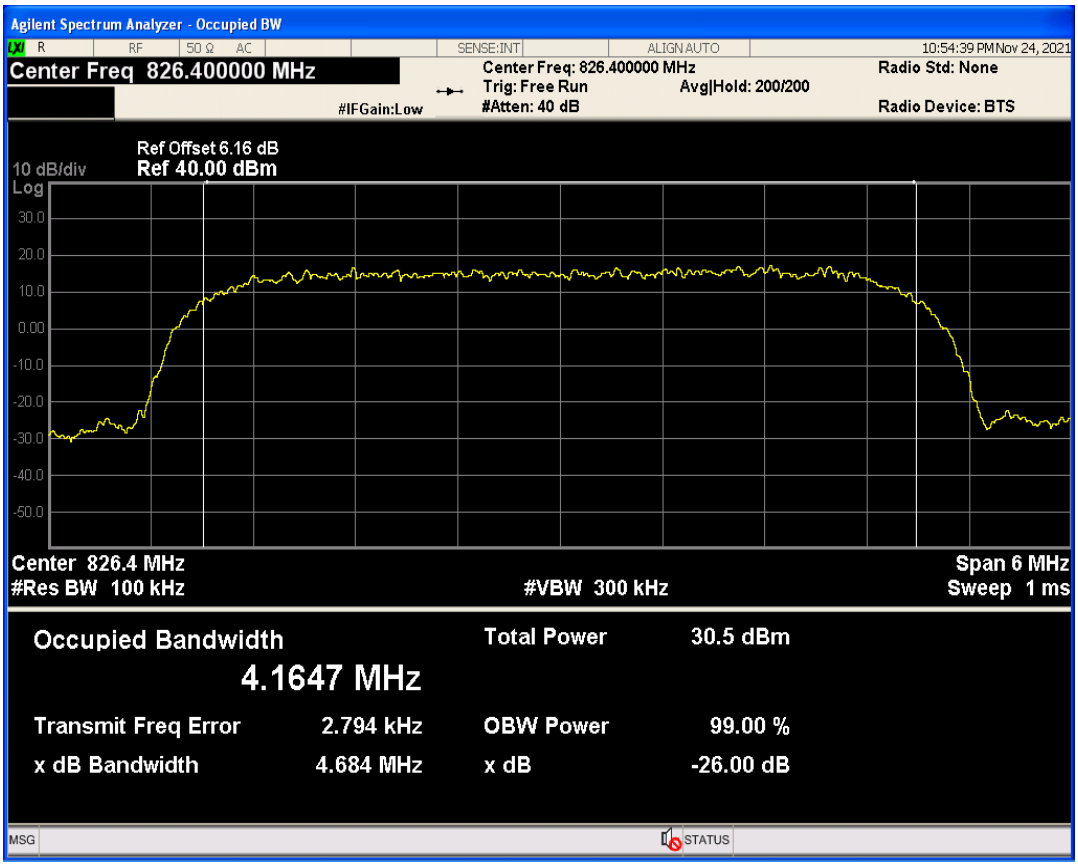
WCDMA Band5 Channel=4233



WCDMA Band5 Channel=4182



WCDMA Band5 Channel=4132

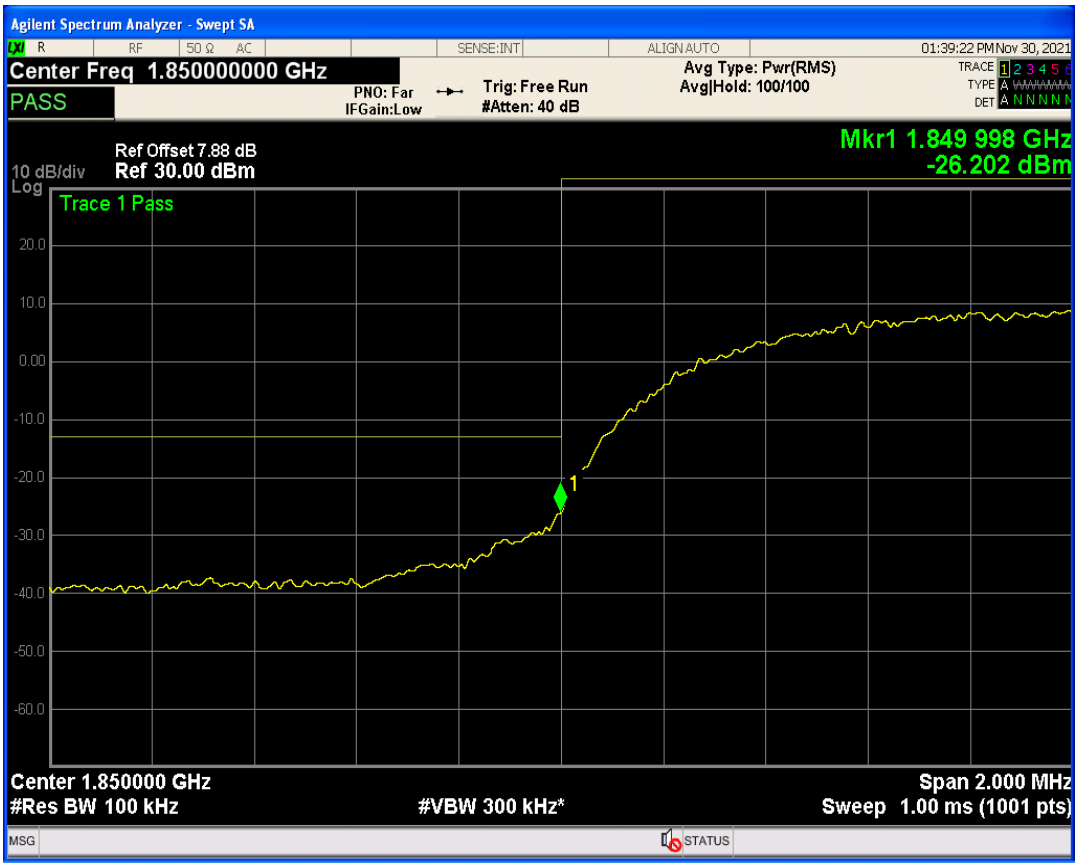


05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
WCDMA Band2	9262	1852.4	1850.00	-26.20	-13	PASS
WCDMA Band2	9538	1907.6	1910.00	-24.22	-13	PASS
WCDMA Band5	4132	826.4	824.00	-25.45	-13	PASS
WCDMA Band5	4233	846.6	849.00	-24.51	-13	PASS

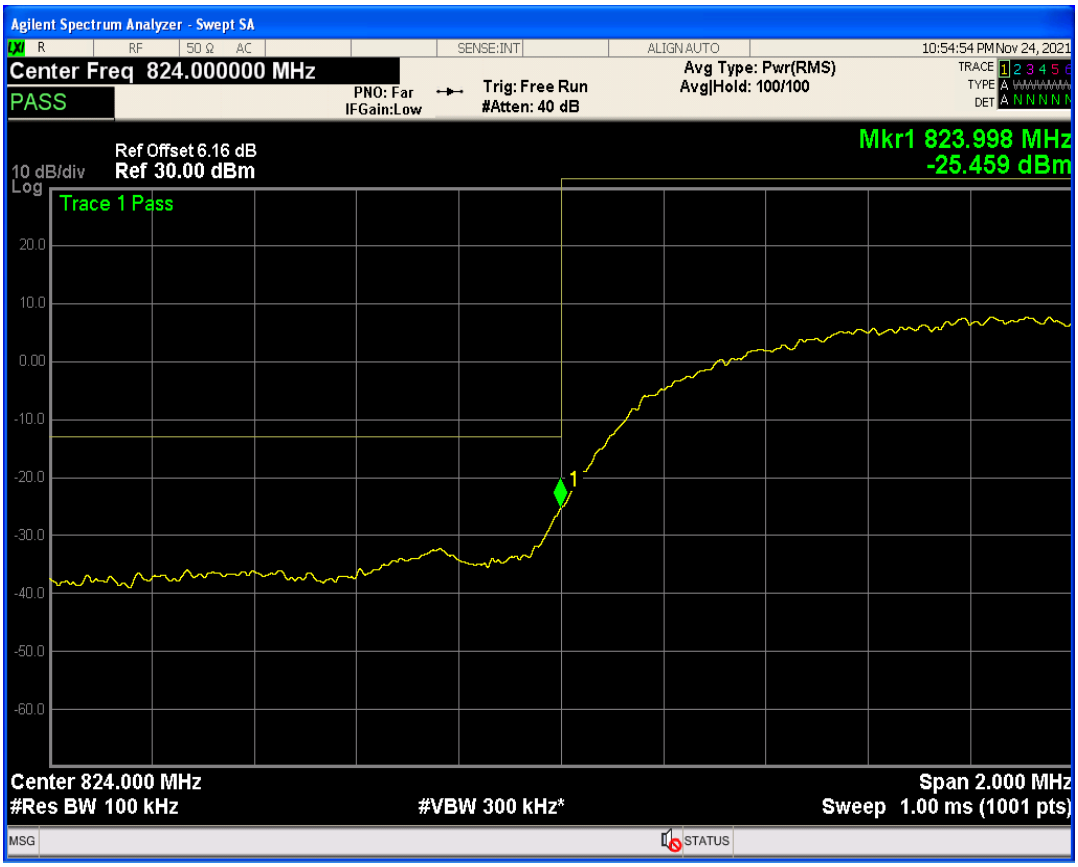
WCDMA Band2 Channel=9538

WCDMA Band2 Channel=9262



WCDMA Band5 Channel=4233

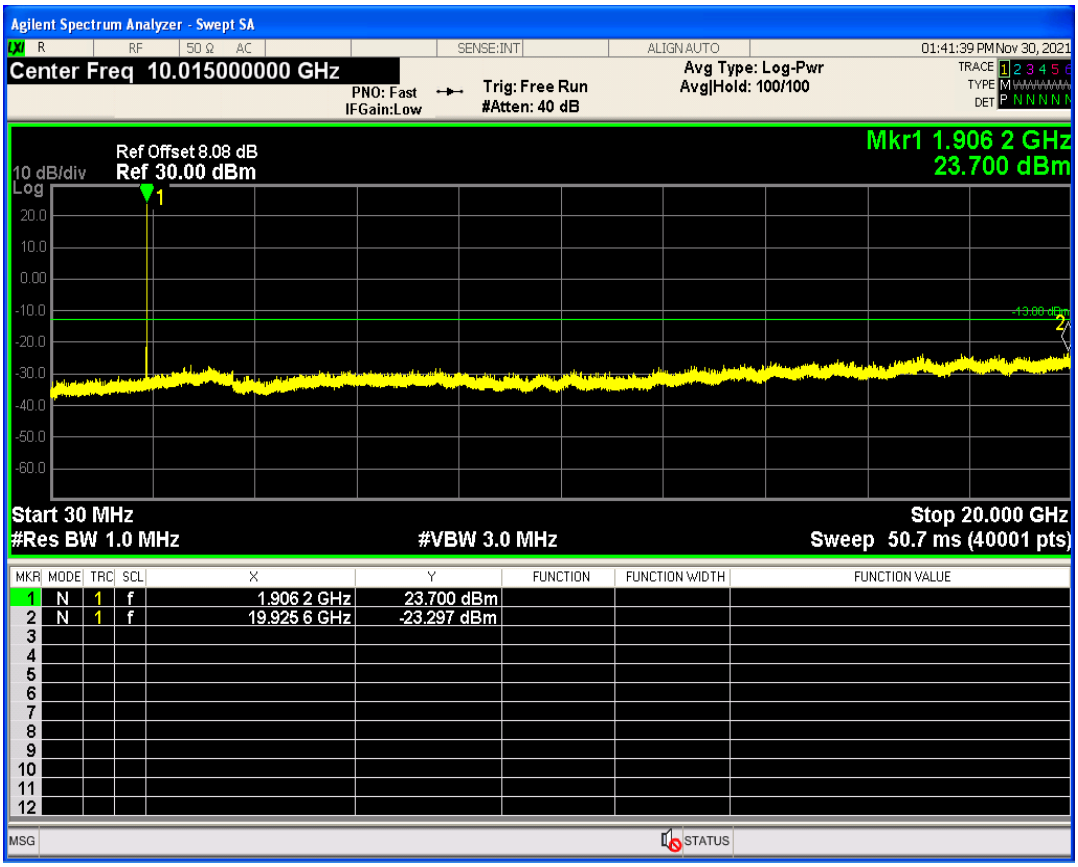
WCDMA Band5 Channel=4132



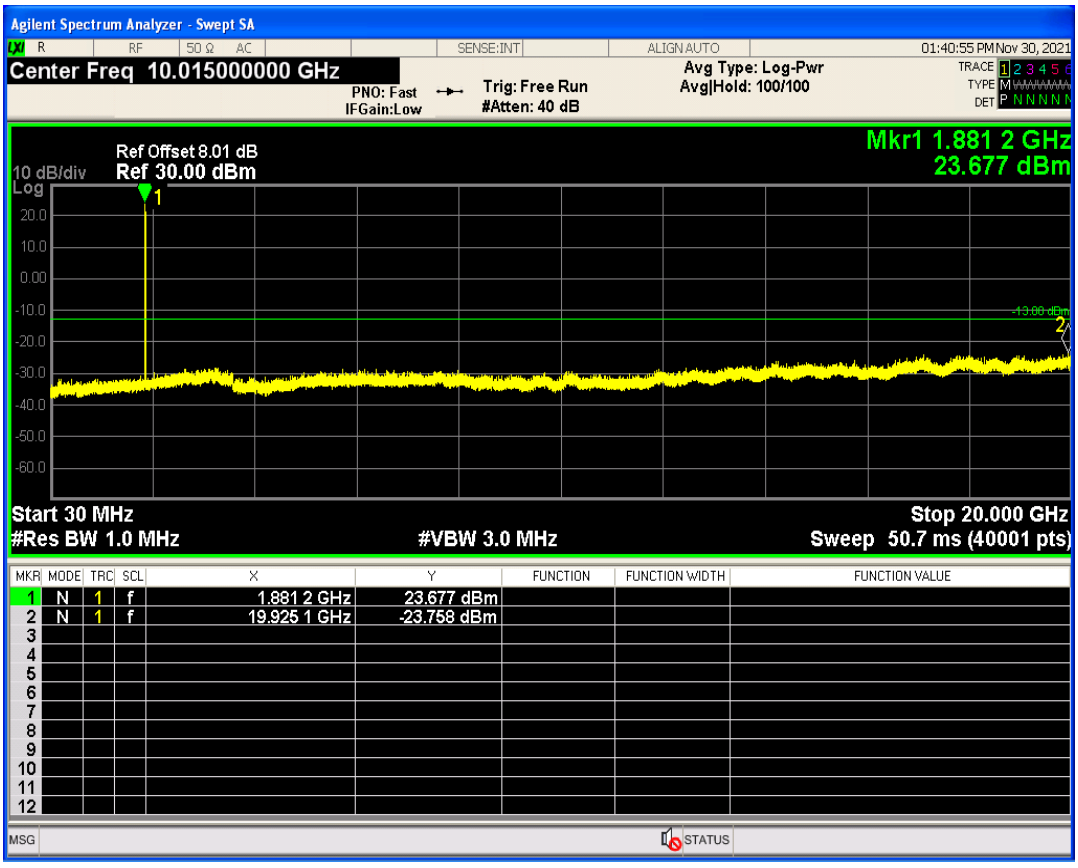
06 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
WCDMA Band2	9262	1852.4	19728.91	-23.77	-13	PASS
WCDMA Band2	9400	1880	19925.11	-23.75	-13	PASS
WCDMA Band2	9538	1907.6	19925.61	-23.29	-13	PASS
WCDMA Band5	4132	826.4	3167.31	-29.87	-13	PASS
WCDMA Band5	4182	836.4	3172.54	-29.54	-13	PASS
WCDMA Band5	4233	846.6	3149.86	-29.44	-13	PASS

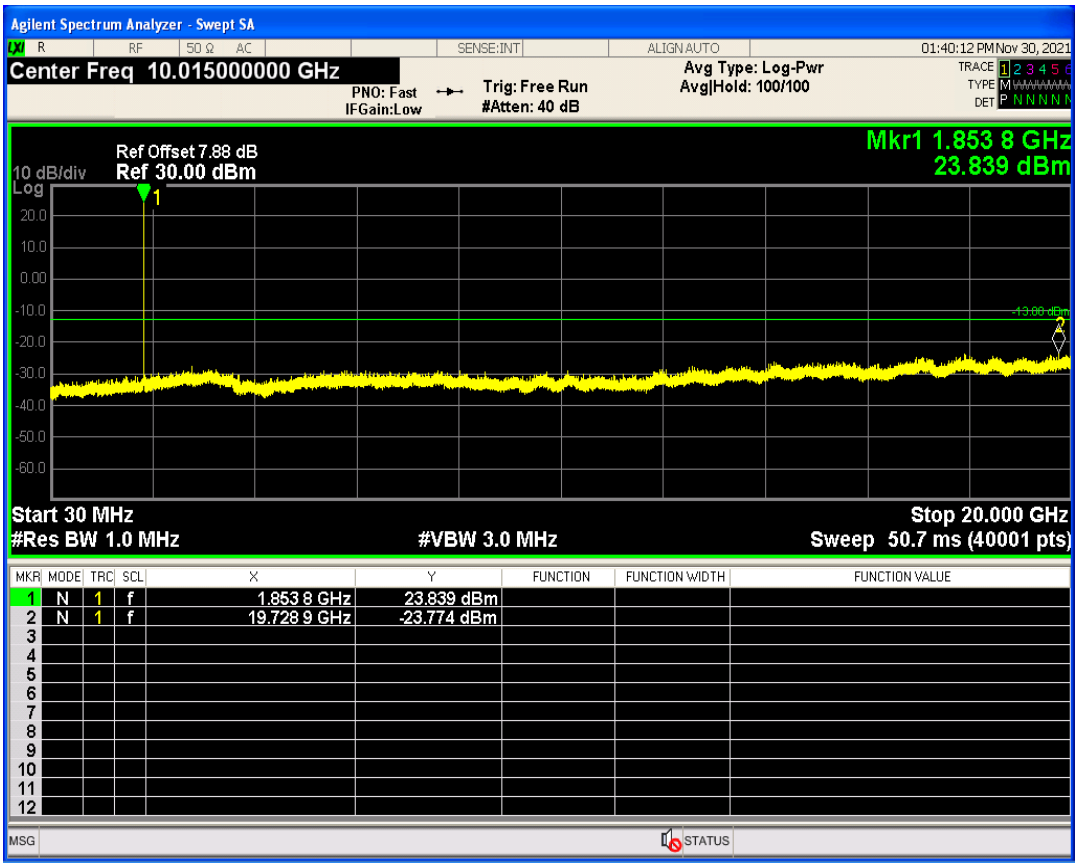
WCDMA Band2 Channel=9538



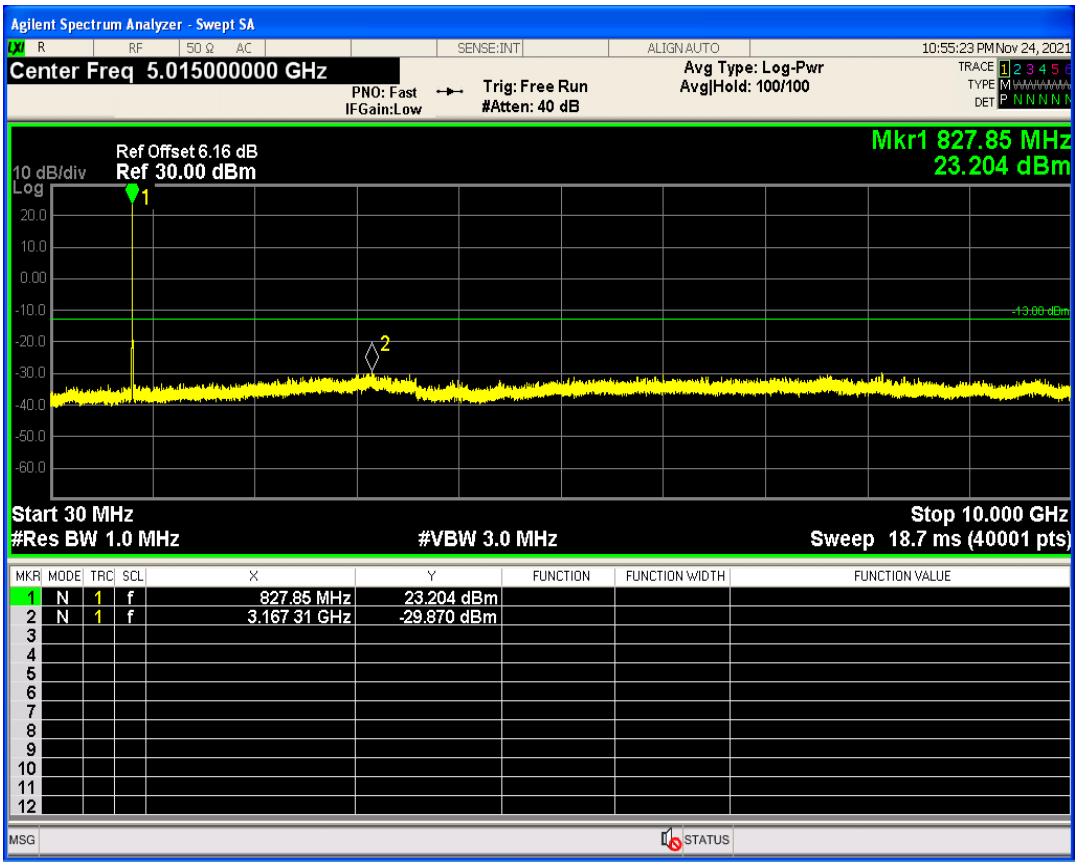
WCDMA Band2 Channel=9400



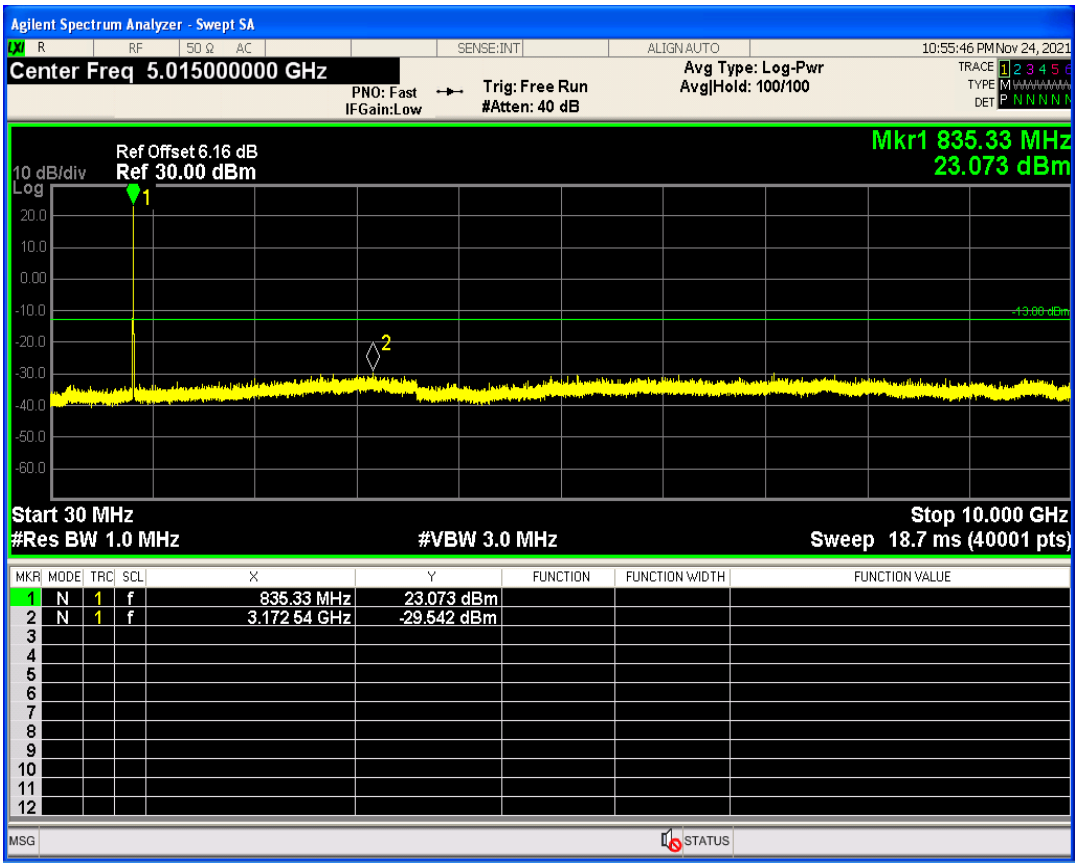
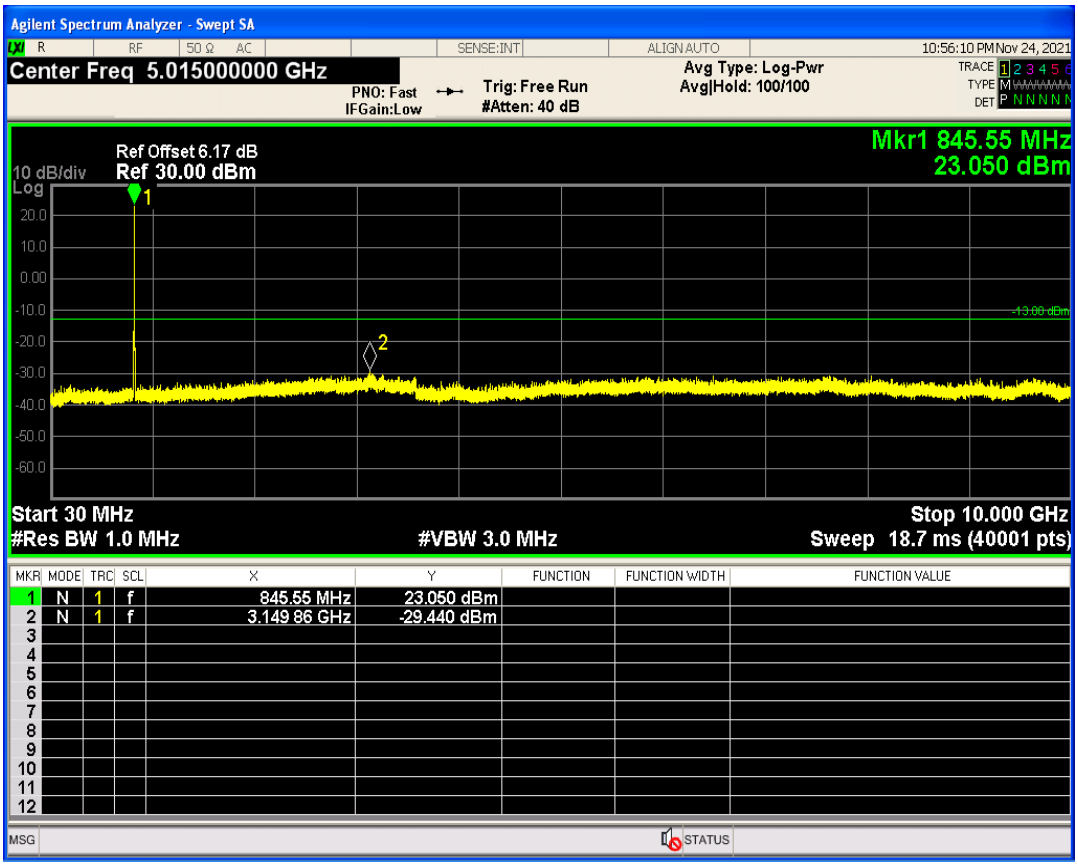
WCDMA Band2 Channel=9262



WCDMA Band5 Channel=4132



WCDMA Band5 Channel=4182



WCDMA Band5 Channel=4233