

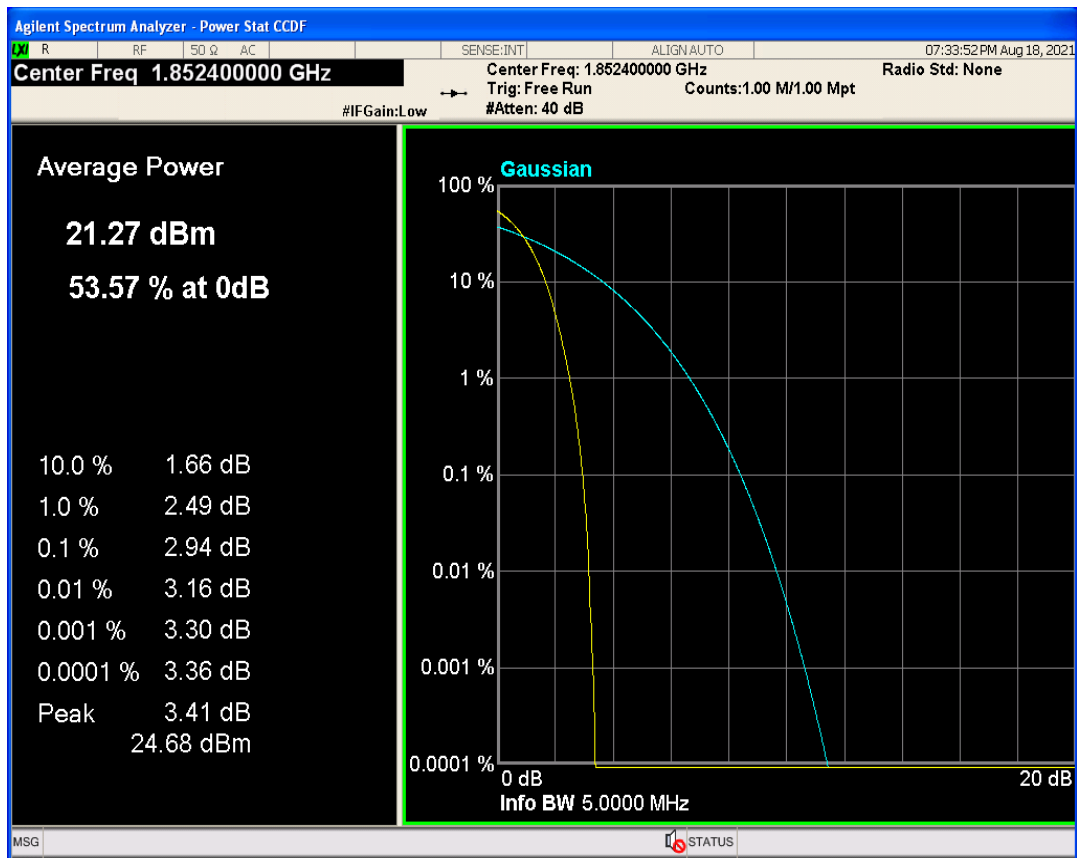
01 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	Verdict
WCDMA Band2	9262	1852.4	20.66	PASS
WCDMA Band2	9400	1880	20.85	PASS
WCDMA Band2	9538	1907.6	20.78	PASS
WCDMA Band5	4132	826.4	22.28	PASS
WCDMA Band5	4182	836.4	22.21	PASS
WCDMA Band5	4233	846.6	22.22	PASS
GSM1900	512	1850.2	28.06	PASS
GSM1900	661	1880	27.86	PASS
GSM1900	810	1909.8	27.81	PASS
GSM850	128	824.2	32.47	PASS
GSM850	189	836.4	32.50	PASS
GSM850	251	848.8	32.46	PASS

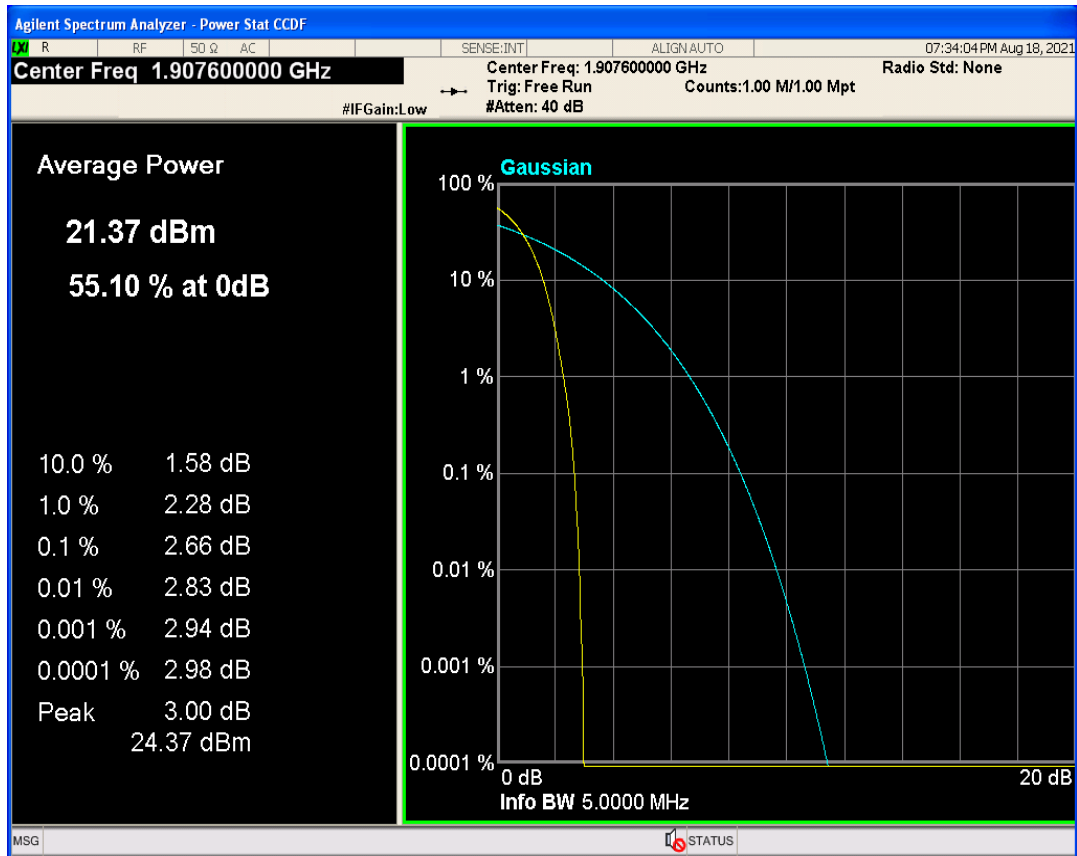
03 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
WCDMA Band2	9262	1852.4	2.94	13	PASS
WCDMA Band2	9400	1880	2.61	13	PASS
WCDMA Band2	9538	1907.6	2.66	13	PASS
WCDMA Band5	4132	826.4	3.08	13	PASS
WCDMA Band5	4182	836.4	3.15	13	PASS
WCDMA Band5	4233	846.6	3.14	13	PASS
GSM1900	512	1850.2	2.68	13	PASS
GSM1900	661	1880	2.66	13	PASS
GSM1900	810	1909.8	2.65	13	PASS
GSM850	128	824.2	2.62	13	PASS
GSM850	189	836.4	2.61	13	PASS
GSM850	251	848.8	2.62	13	PASS

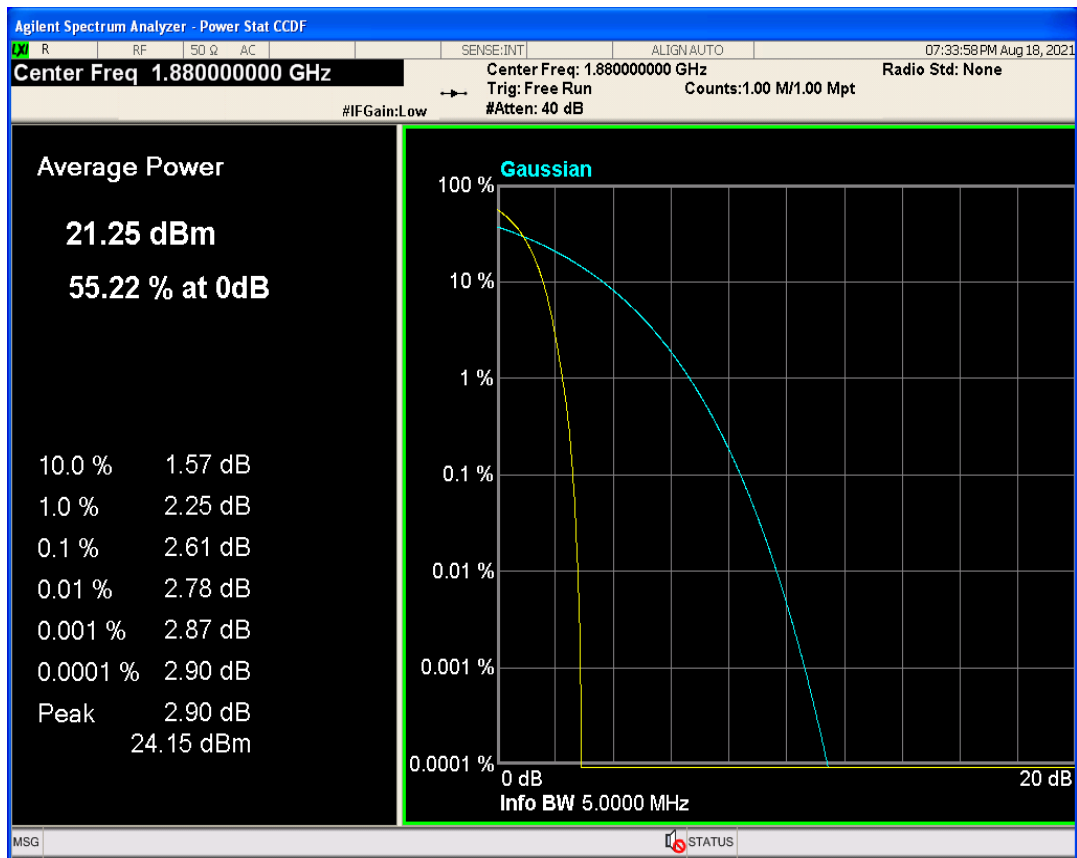
WCDMA Band2 Channel=9262



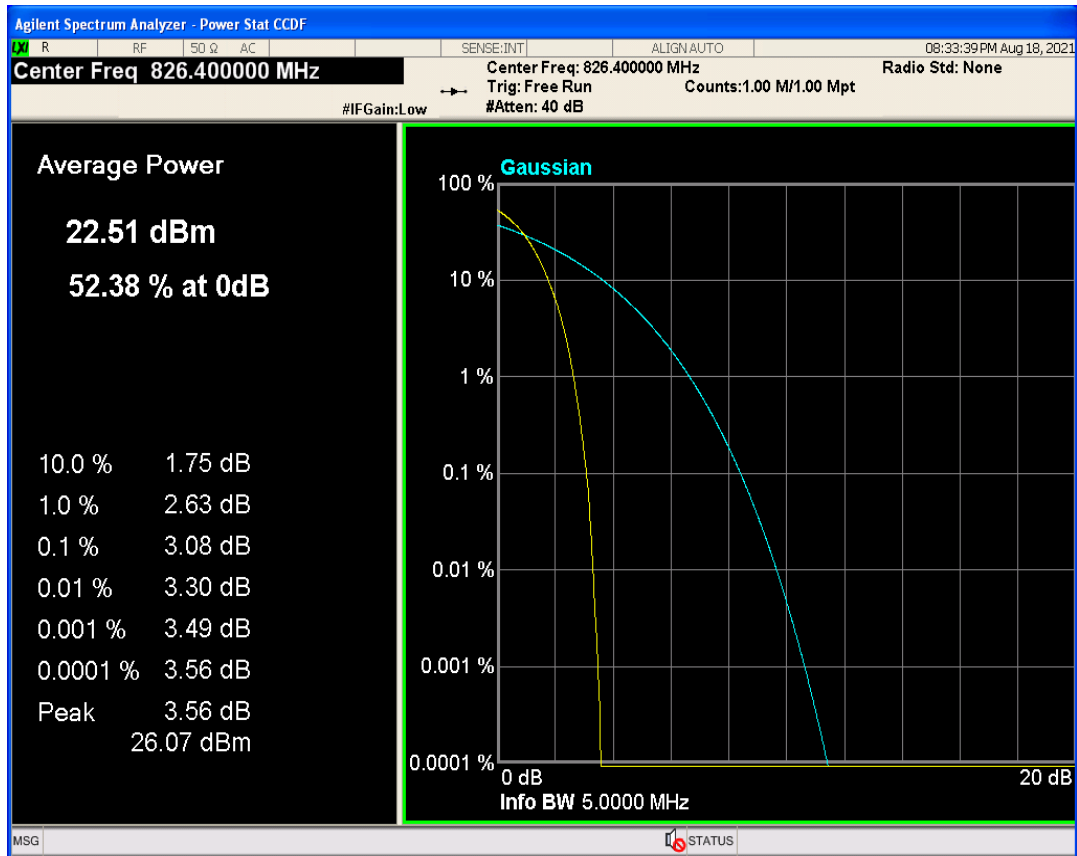
WCDMA Band2 Channel=9538



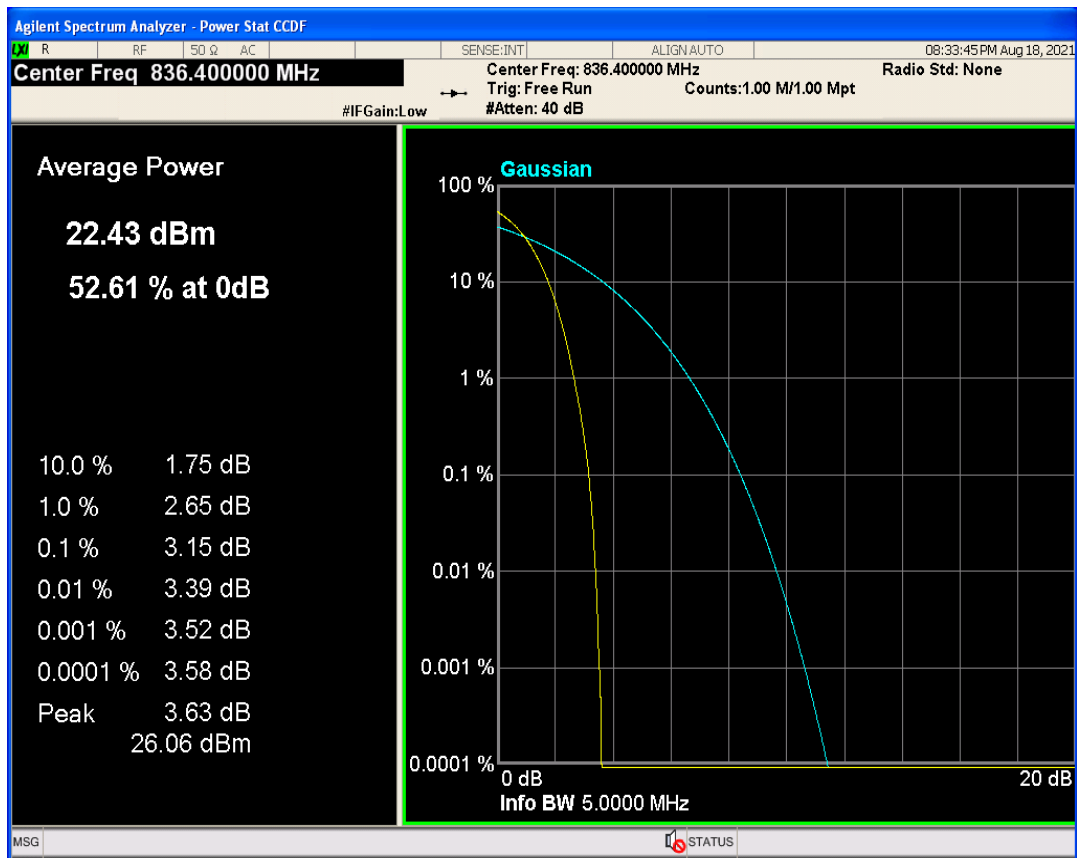
WCDMA Band2 Channel=9400



WCDMA Band5 Channel=4132



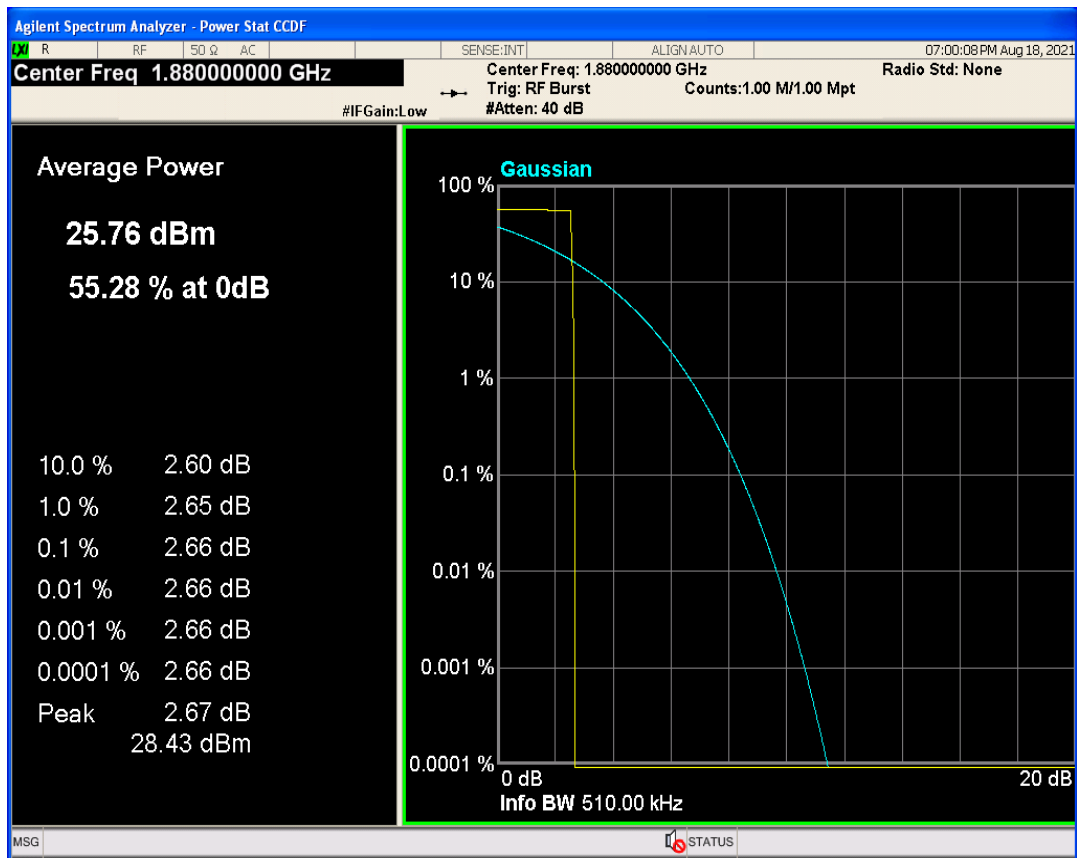
WCDMA Band5 Channel=4182



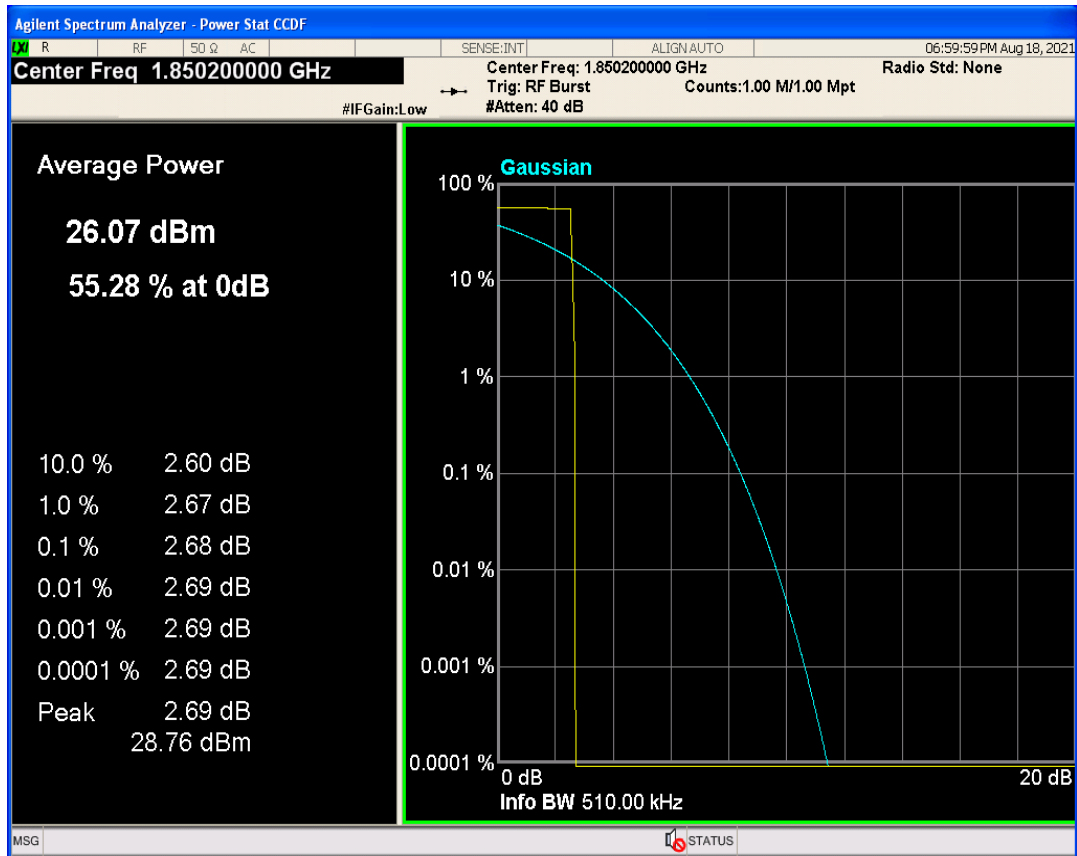
WCDMA Band5 Channel=4233



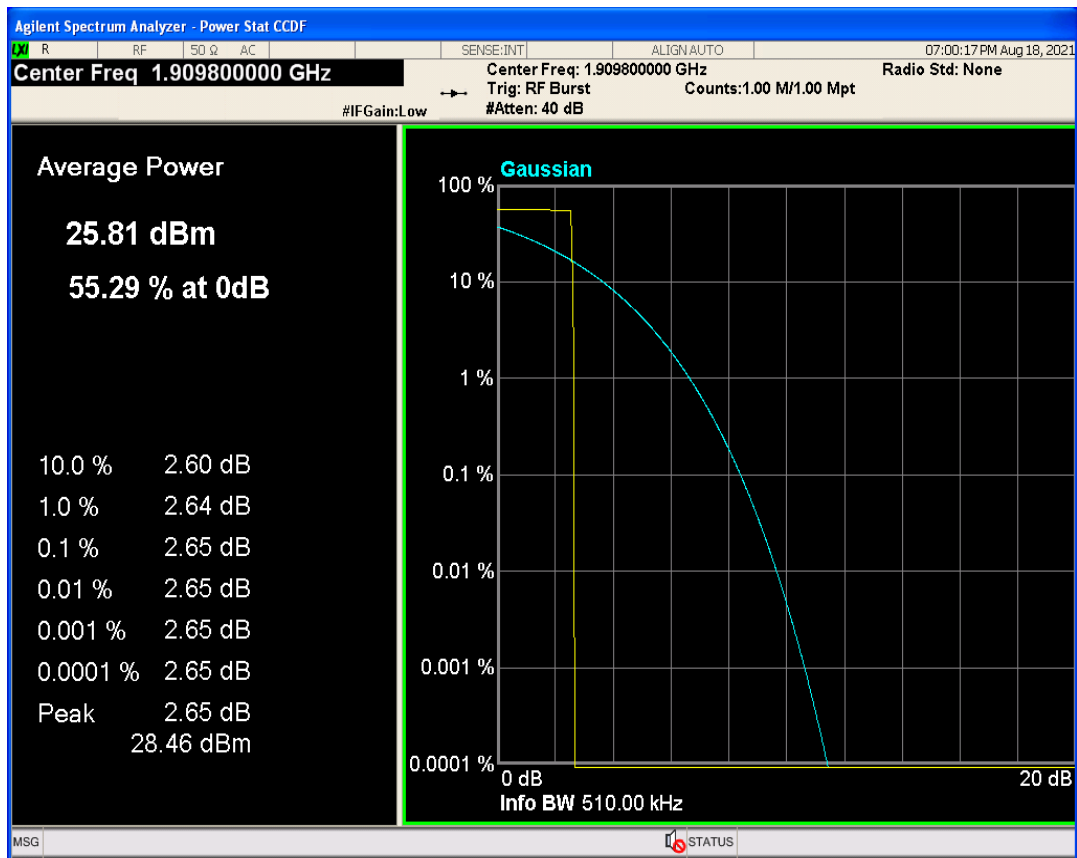
GSM1900 Channel=661



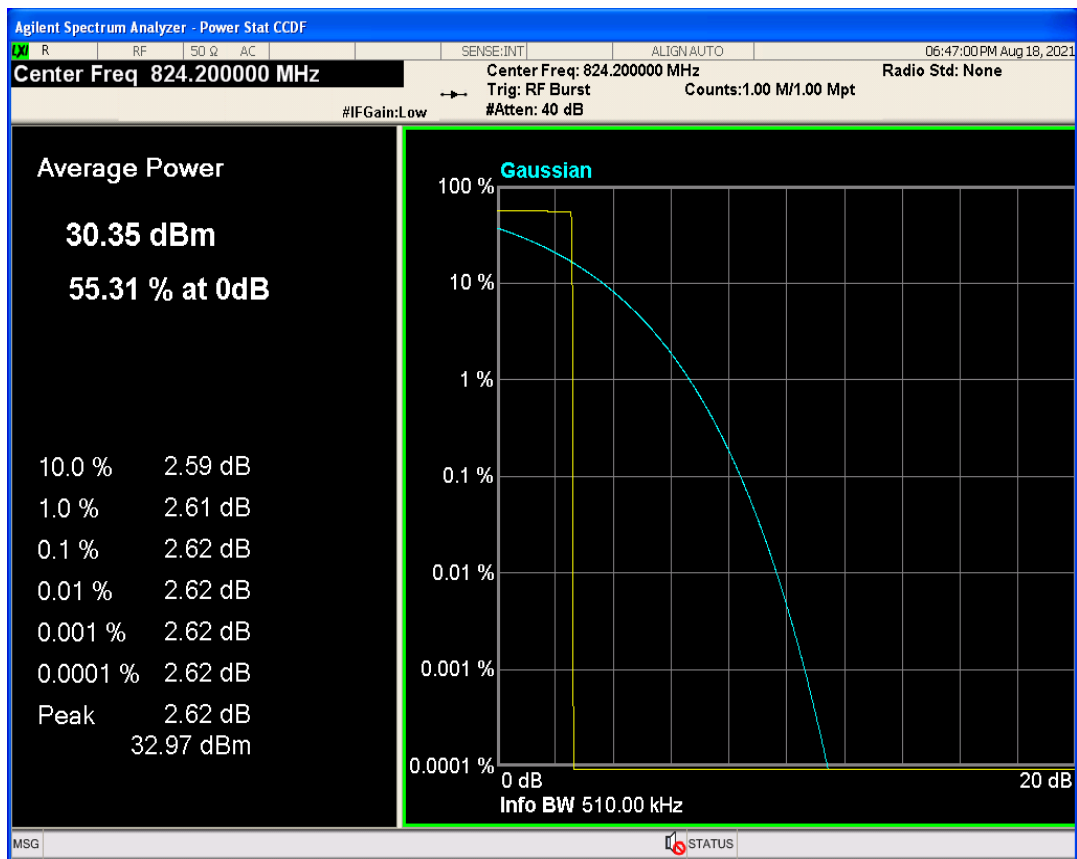
GSM1900 Channel=512



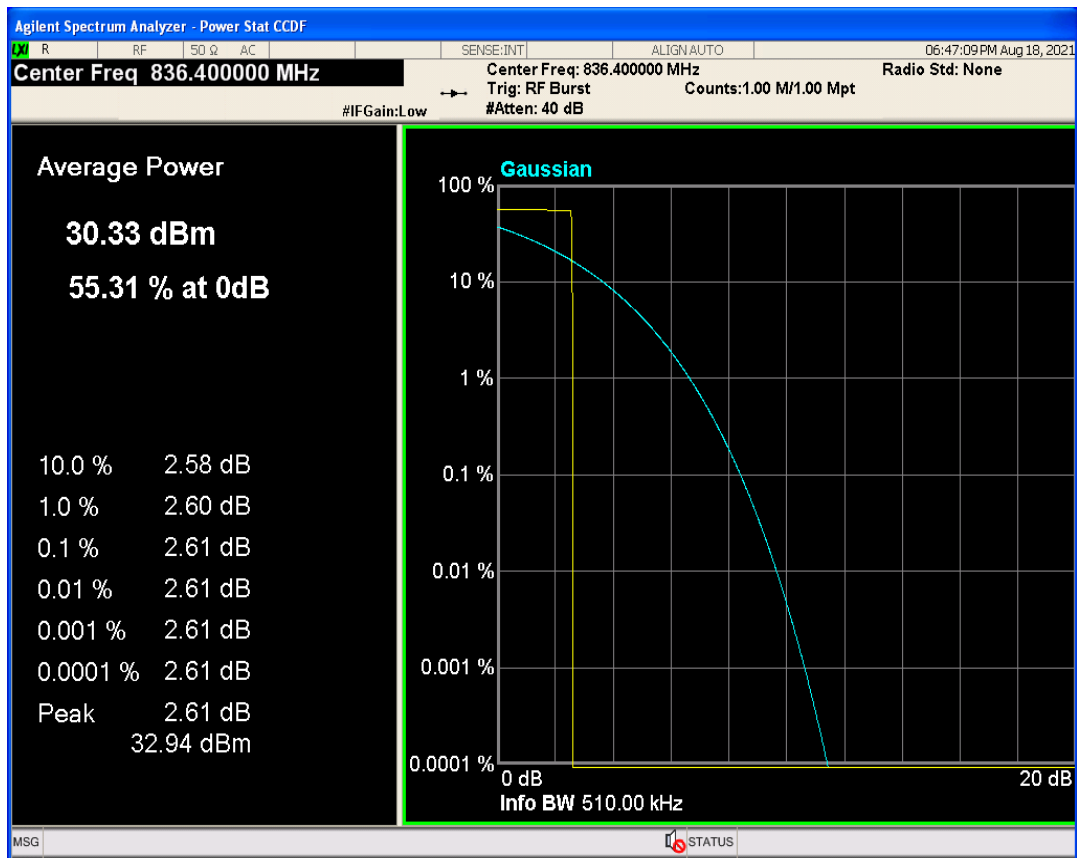
GSM1900 Channel=810



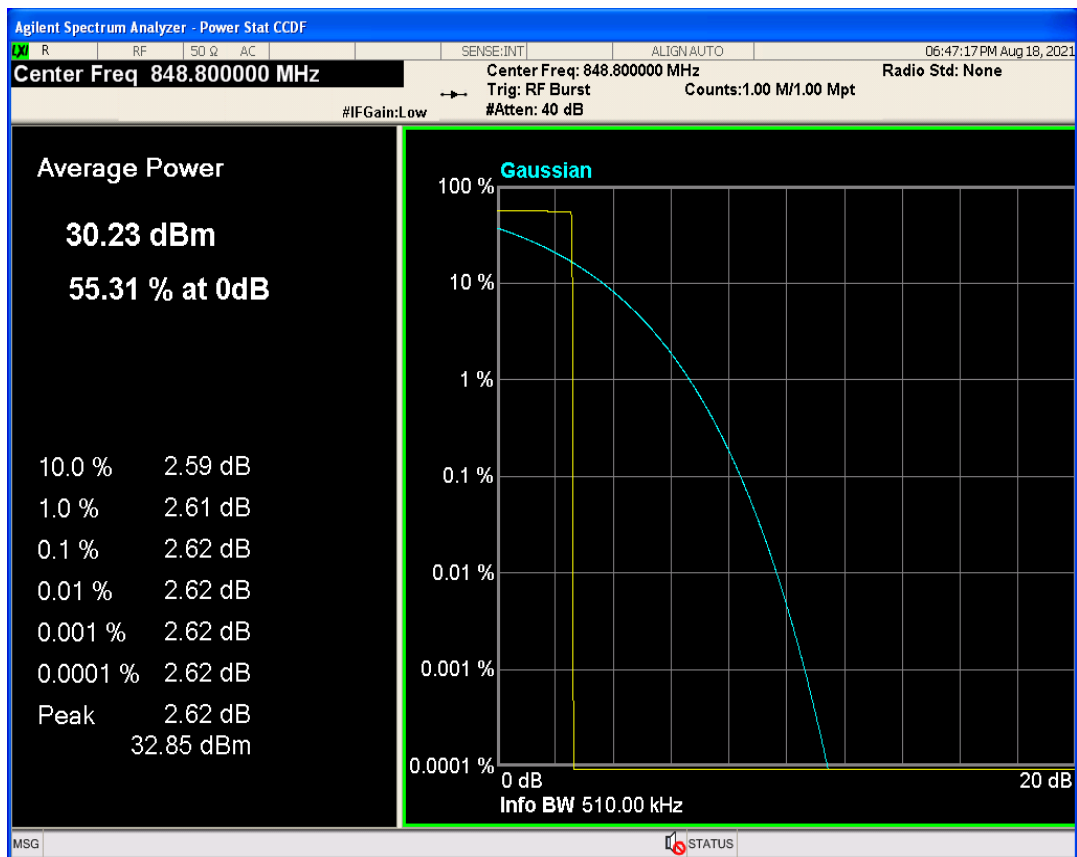
GSM850 Channel=128



GSM850 Channel=189



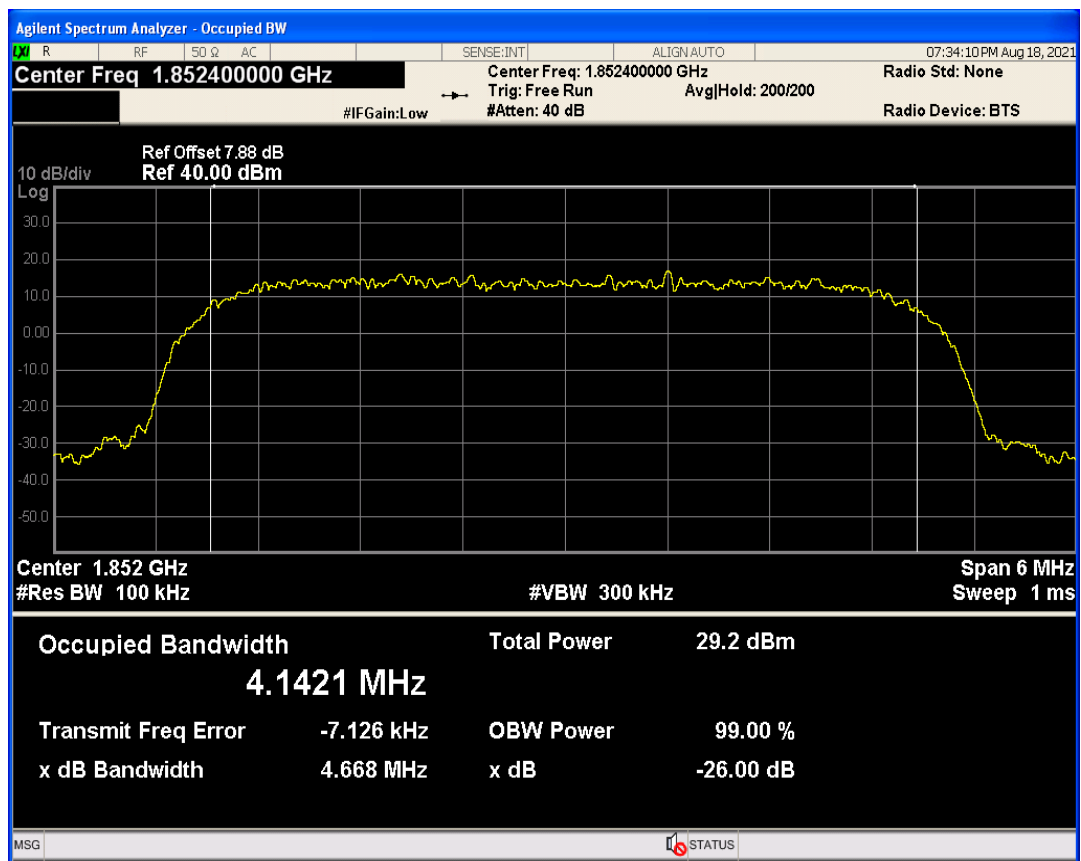
GSM850 Channel=251



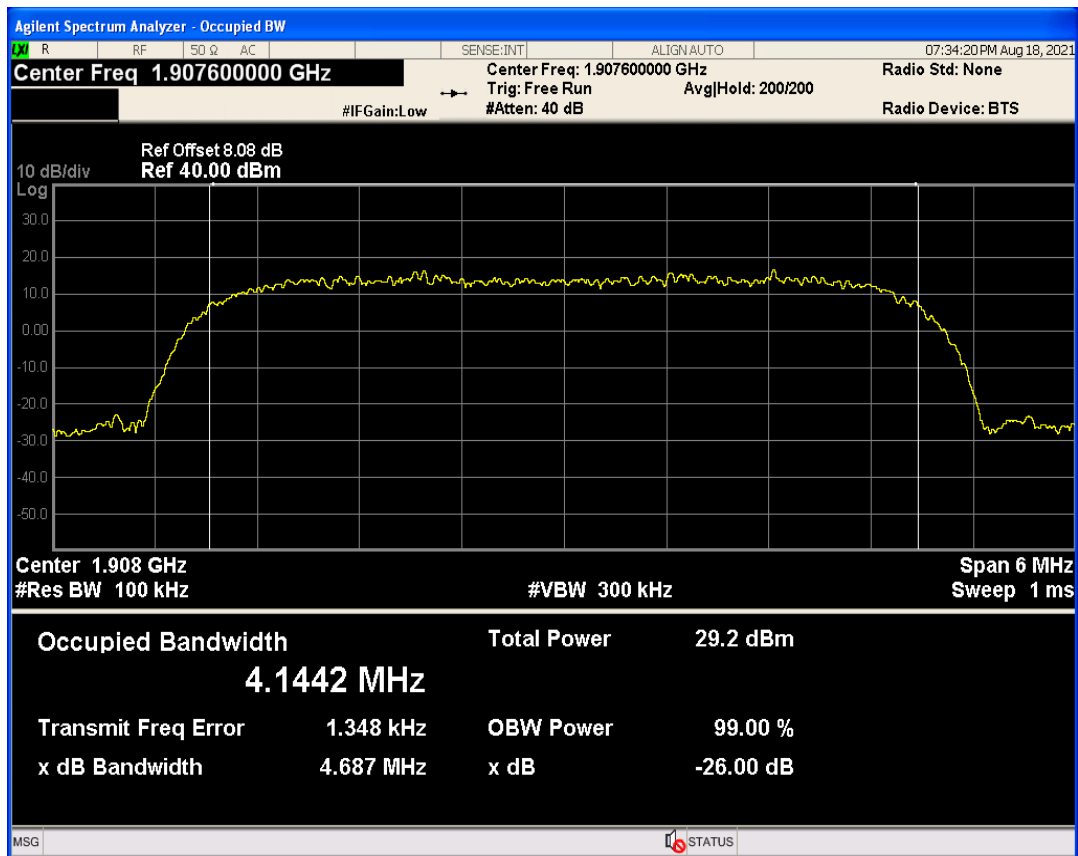
04 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
WCDMA Band2	9262	1852.4	4142.093	4668.332	PASS
WCDMA Band2	9400	1880	4164.809	4692.606	PASS
WCDMA Band2	9538	1907.6	4144.188	4686.667	PASS
WCDMA Band5	4132	826.4	4139.766	4696.801	PASS
WCDMA Band5	4182	836.4	4150.387	4658.662	PASS
WCDMA Band5	4233	846.6	4151.993	4654.990	PASS
GSM1900	512	1850.2	239.320	311.636	PASS
GSM1900	661	1880	240.569	301.526	PASS
GSM1900	810	1909.8	241.331	305.149	PASS
GSM850	128	824.2	235.335	306.021	PASS
GSM850	189	836.4	238.894	301.160	PASS
GSM850	251	848.8	236.875	299.684	PASS

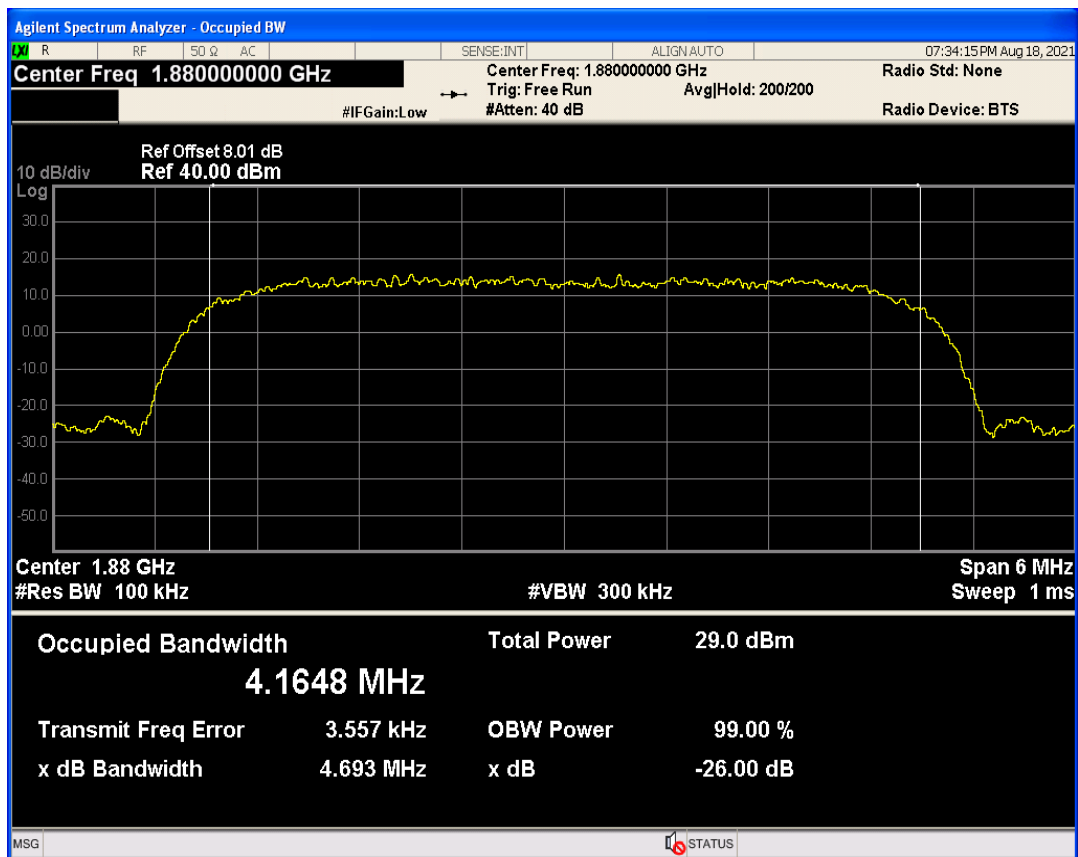
WCDMA Band2 Channel=9262



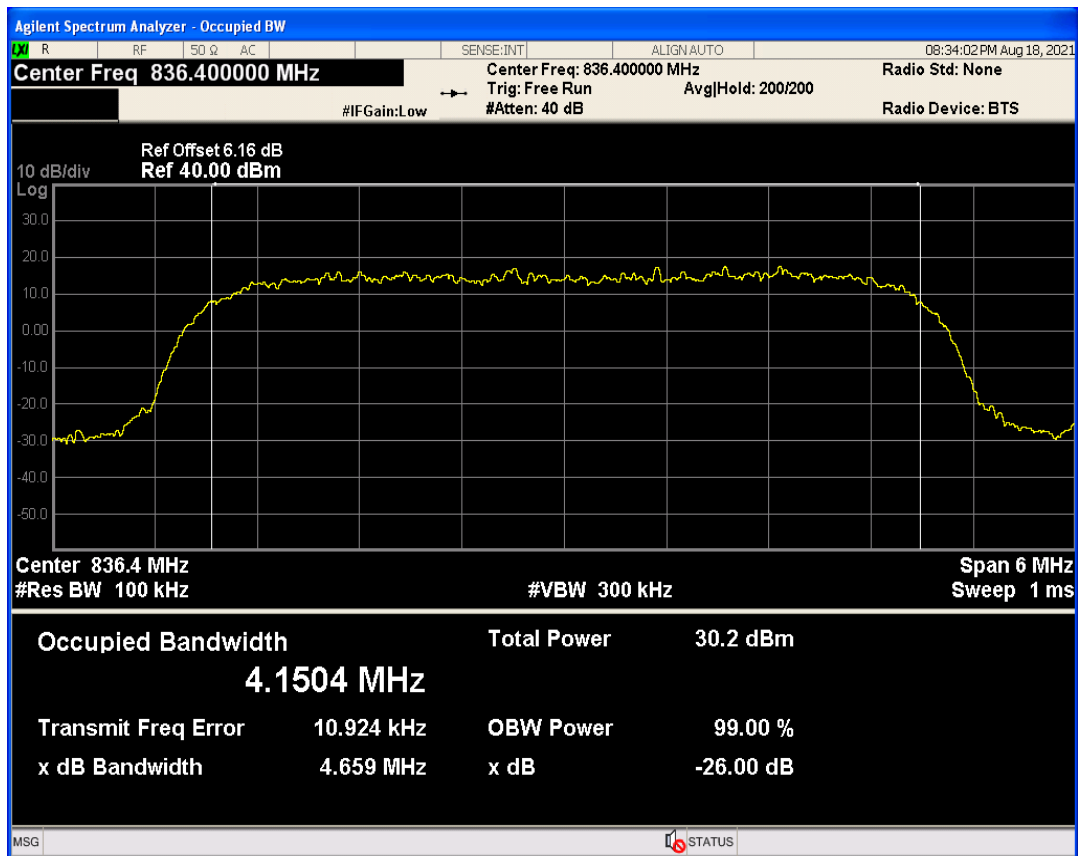
WCDMA Band2 Channel=9538



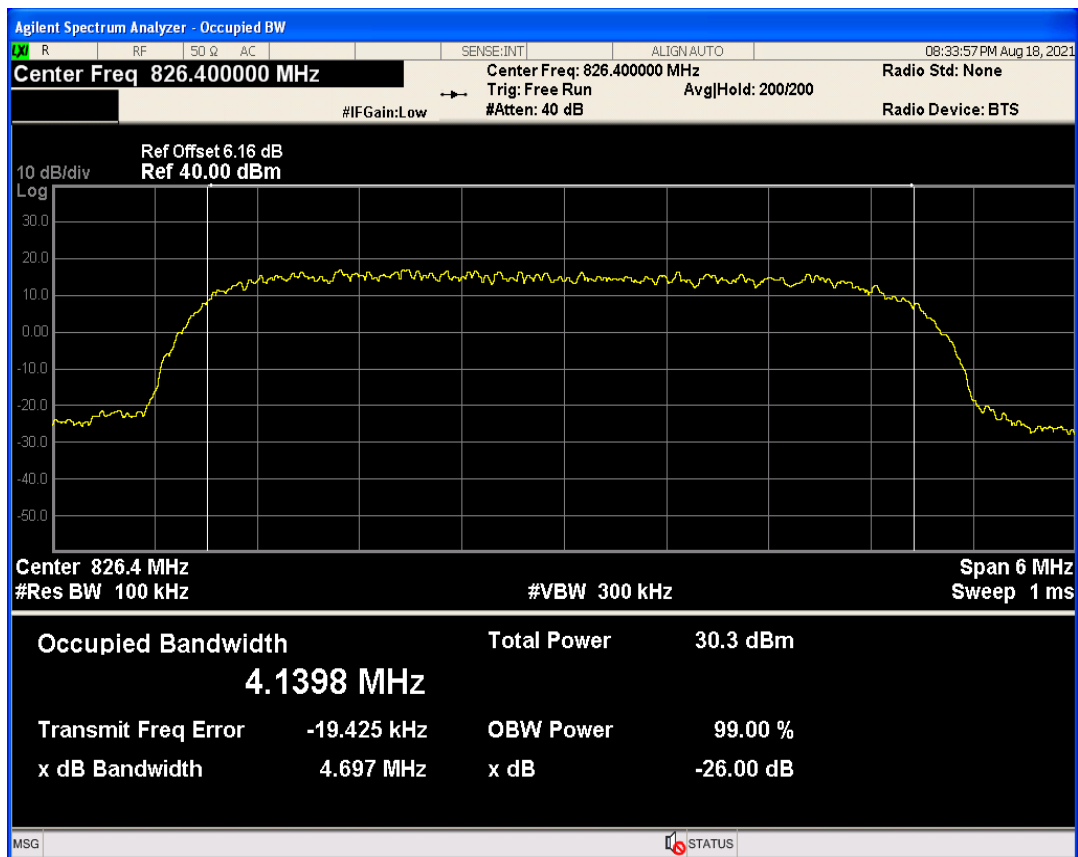
WCDMA Band2 Channel=9400



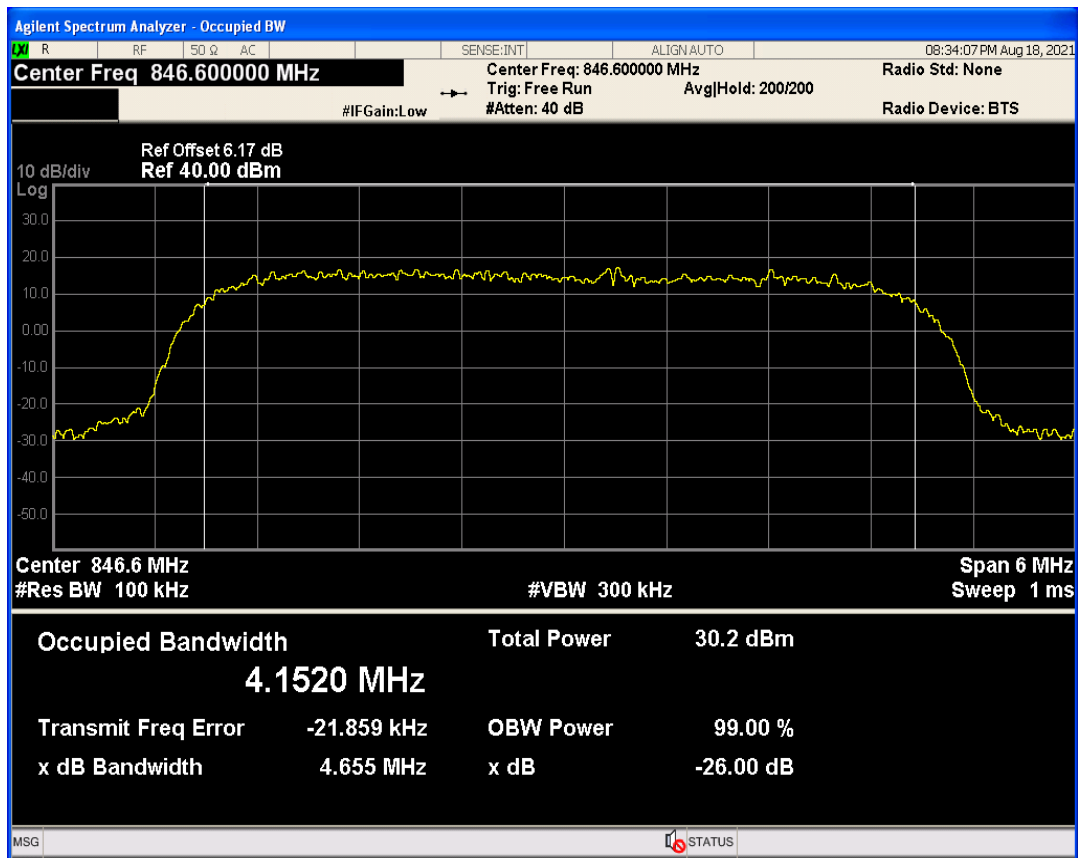
WCDMA Band5 Channel=4182



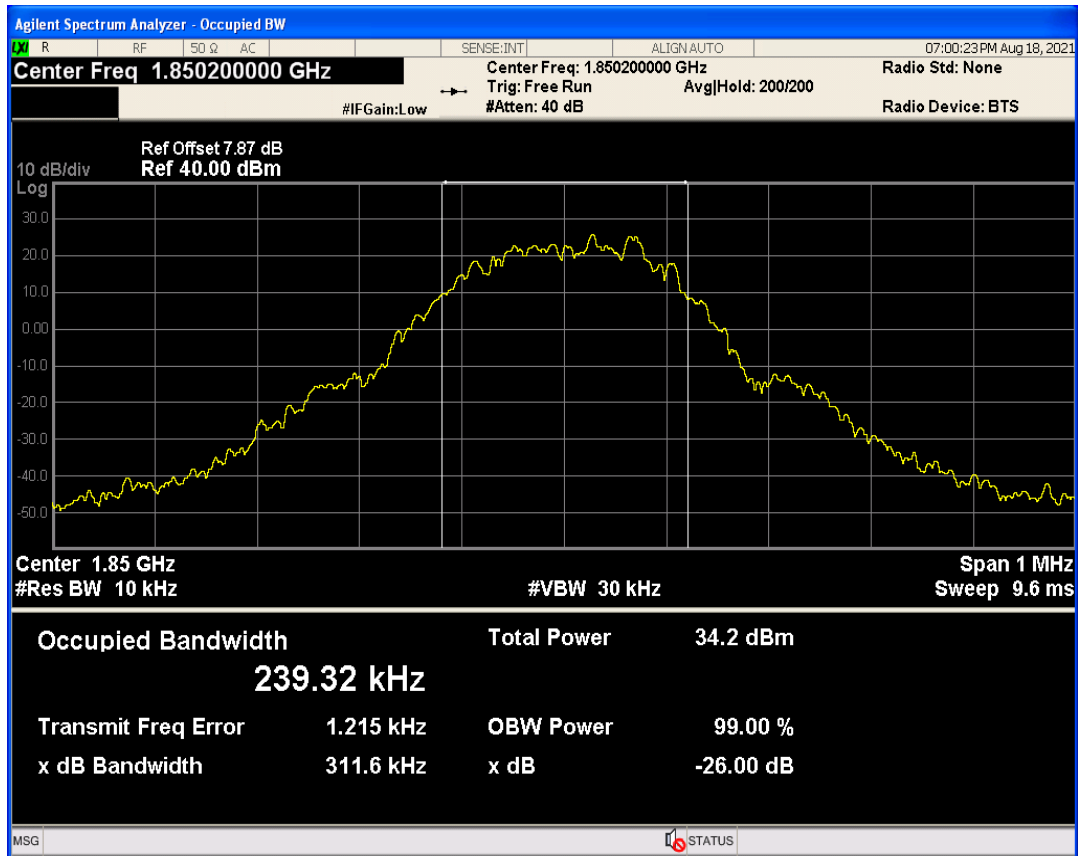
WCDMA Band5 Channel=4132



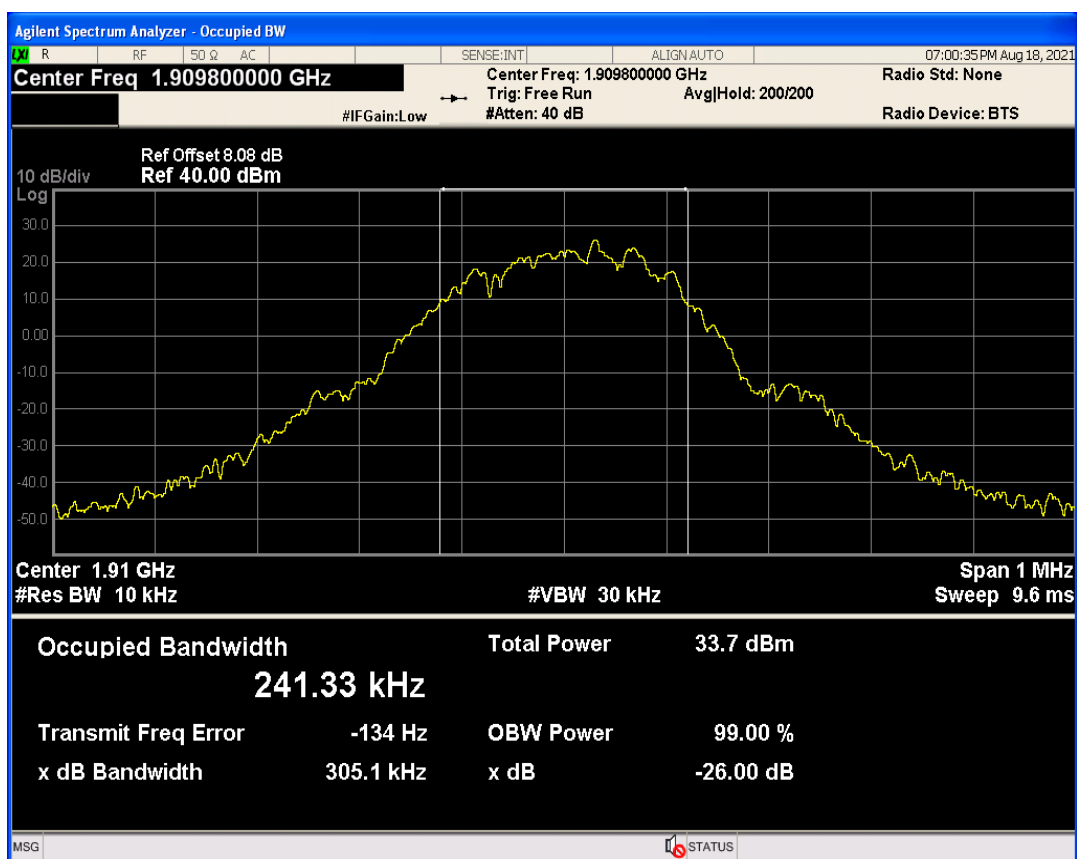
WCDMA Band5 Channel=4233



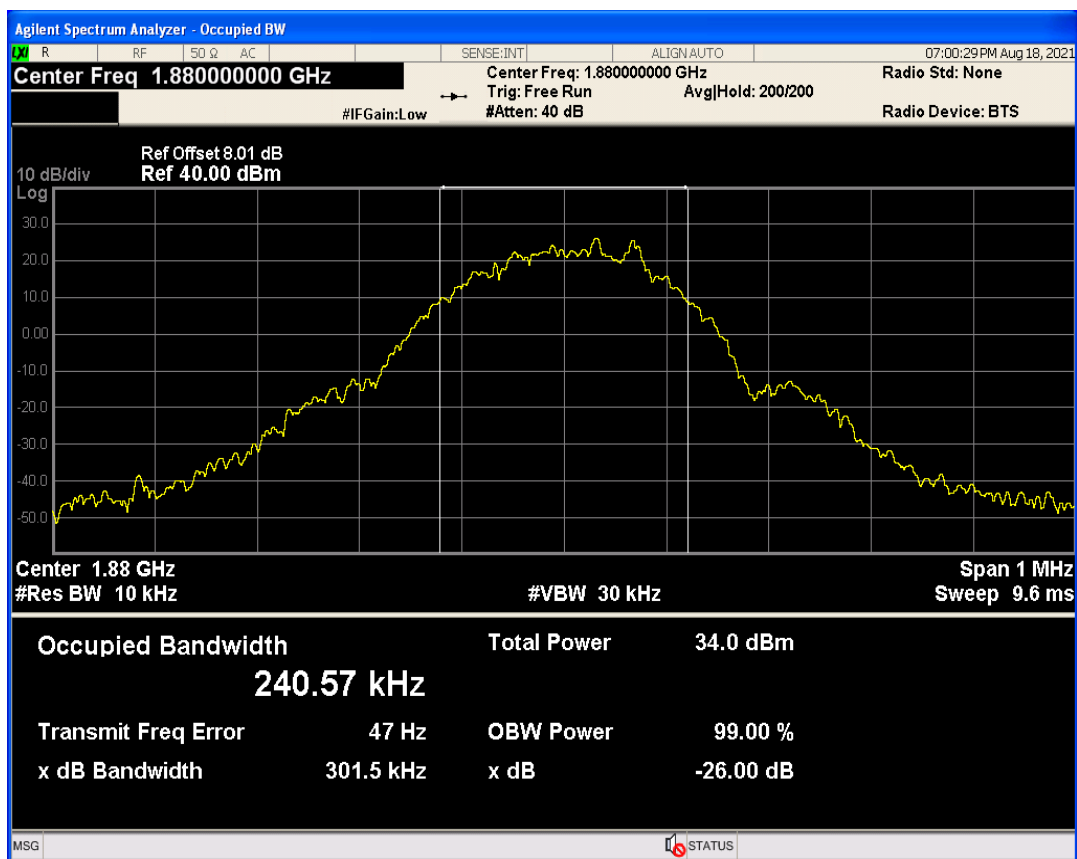
GSM1900 Channel=512



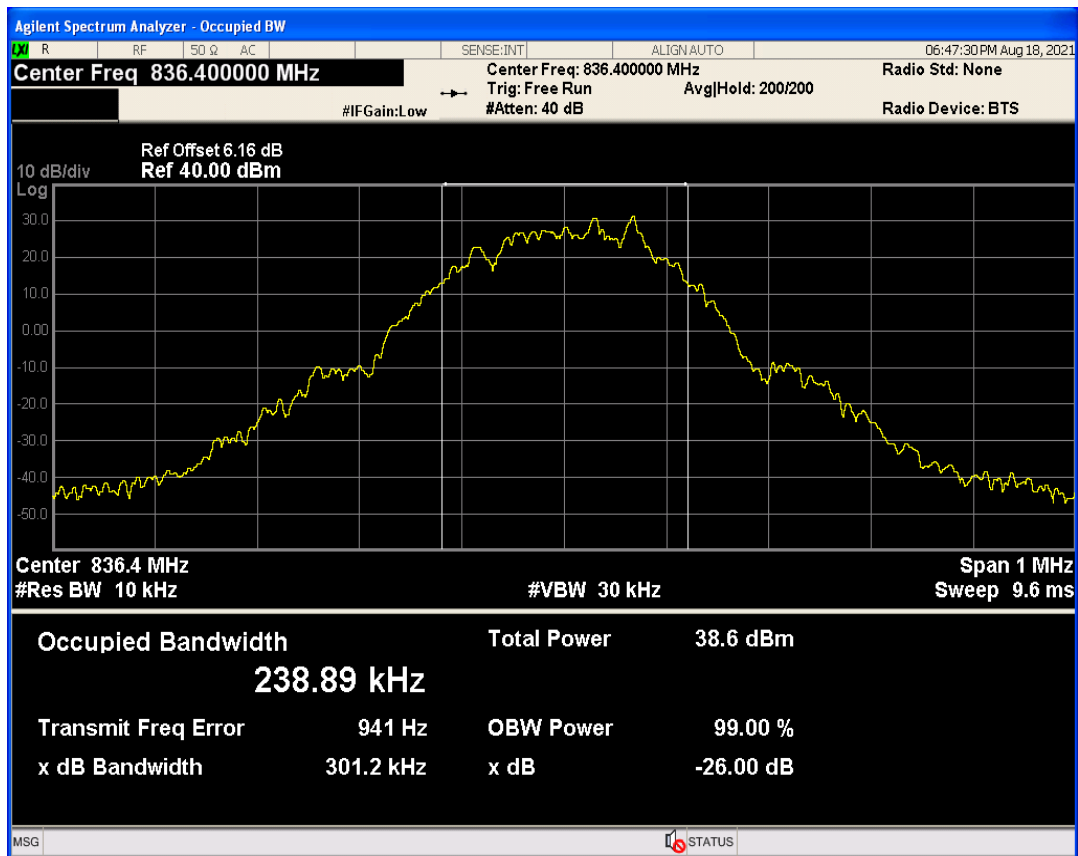
GSM1900 Channel=810



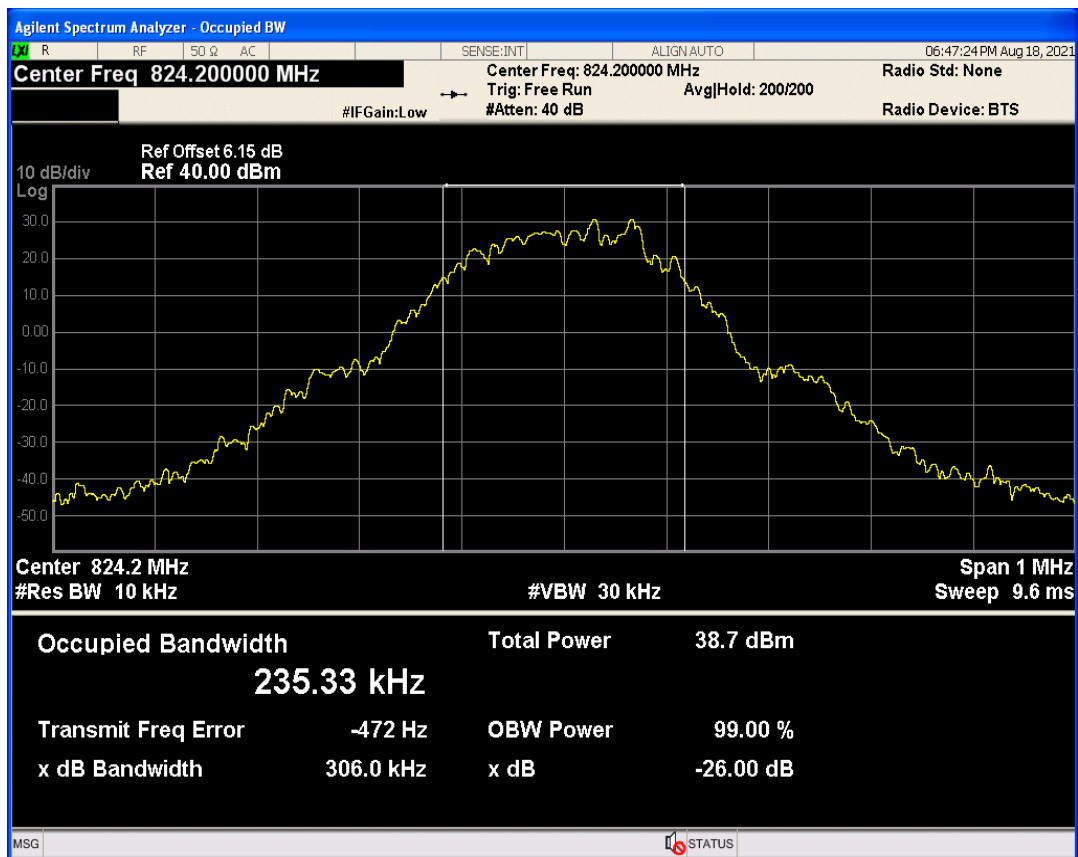
GSM1900 Channel=661



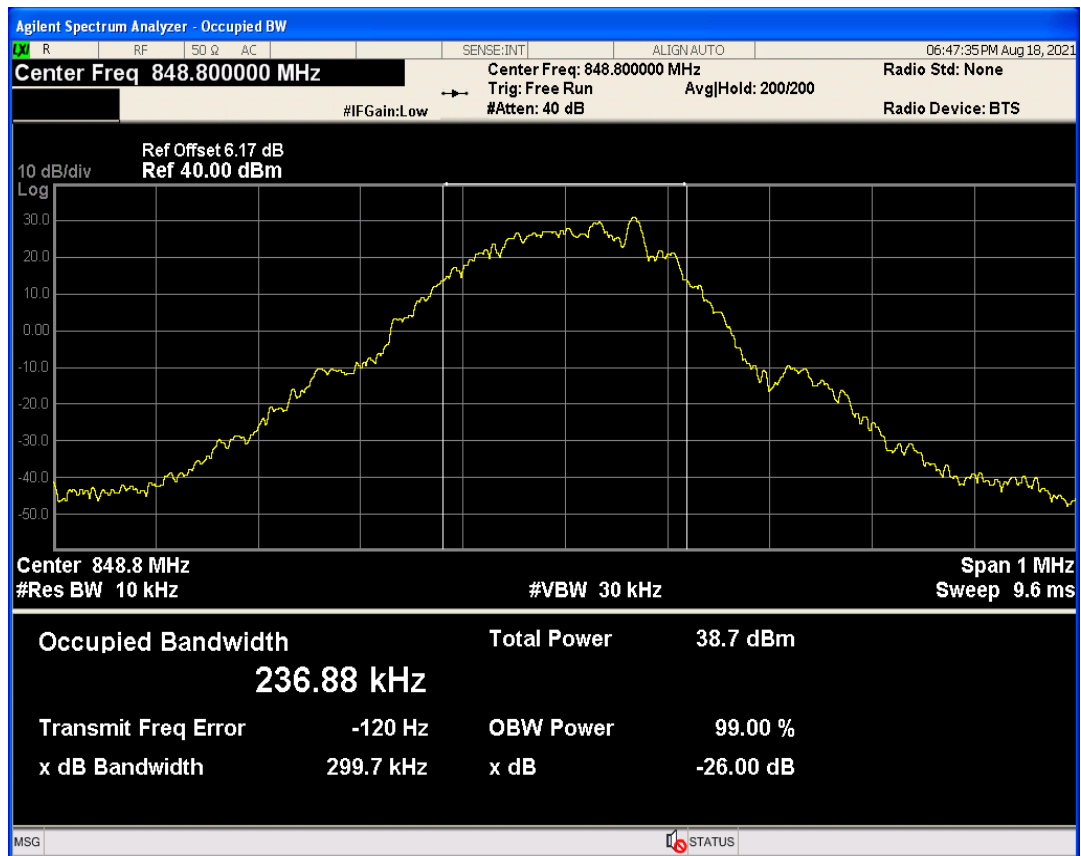
GSM850 Channel=189



GSM850 Channel=128



GSM850 Channel=251



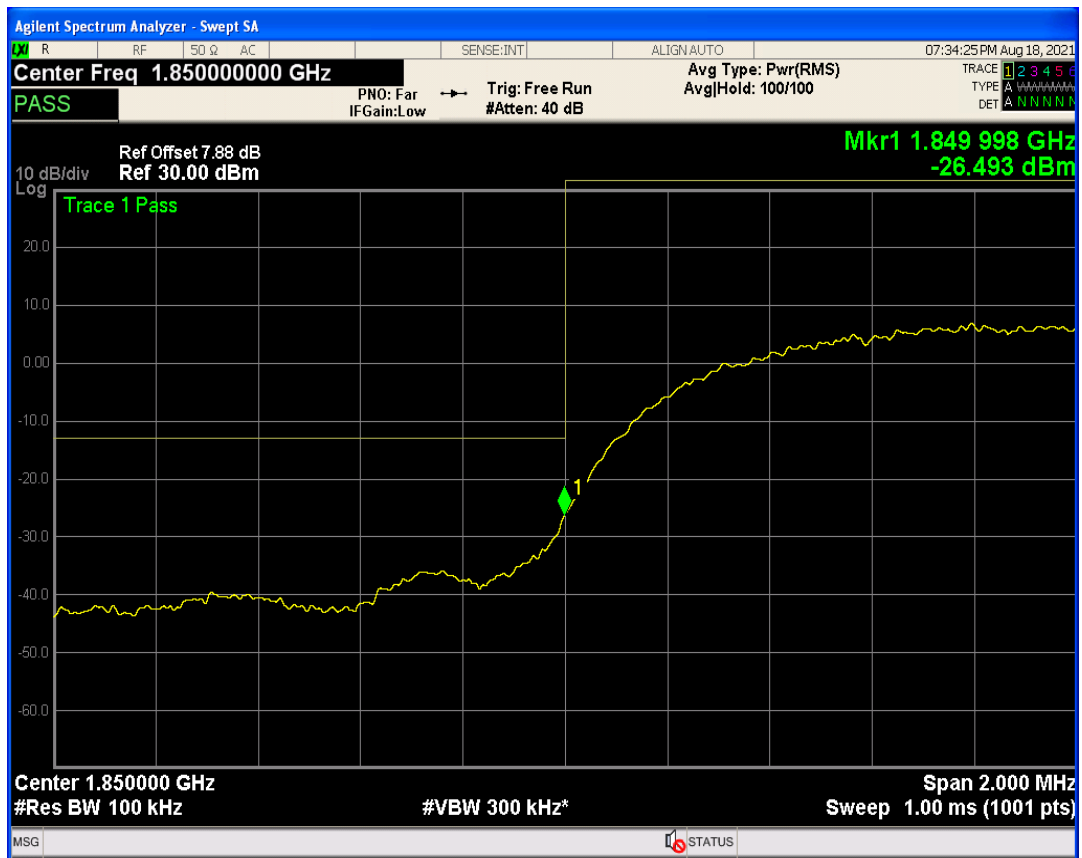
05 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
WCDMA Band2	9262	1852.4	1850.00	-26.49	-13	PASS
WCDMA Band2	9538	1907.6	1910.00	-26.04	-13	PASS
WCDMA Band5	4132	826.4	824.00	-23.95	-13	PASS
WCDMA Band5	4233	846.6	849.00	-27.01	-13	PASS
GSM1900	512	1850.2	1850.00	-29.45	-13	PASS
GSM1900	810	1909.8	1910.02	-30.78	-13	PASS
GSM850	128	824.2	824.00	-24.16	-13	PASS
GSM850	251	848.8	849.02	-25.85	-13	PASS

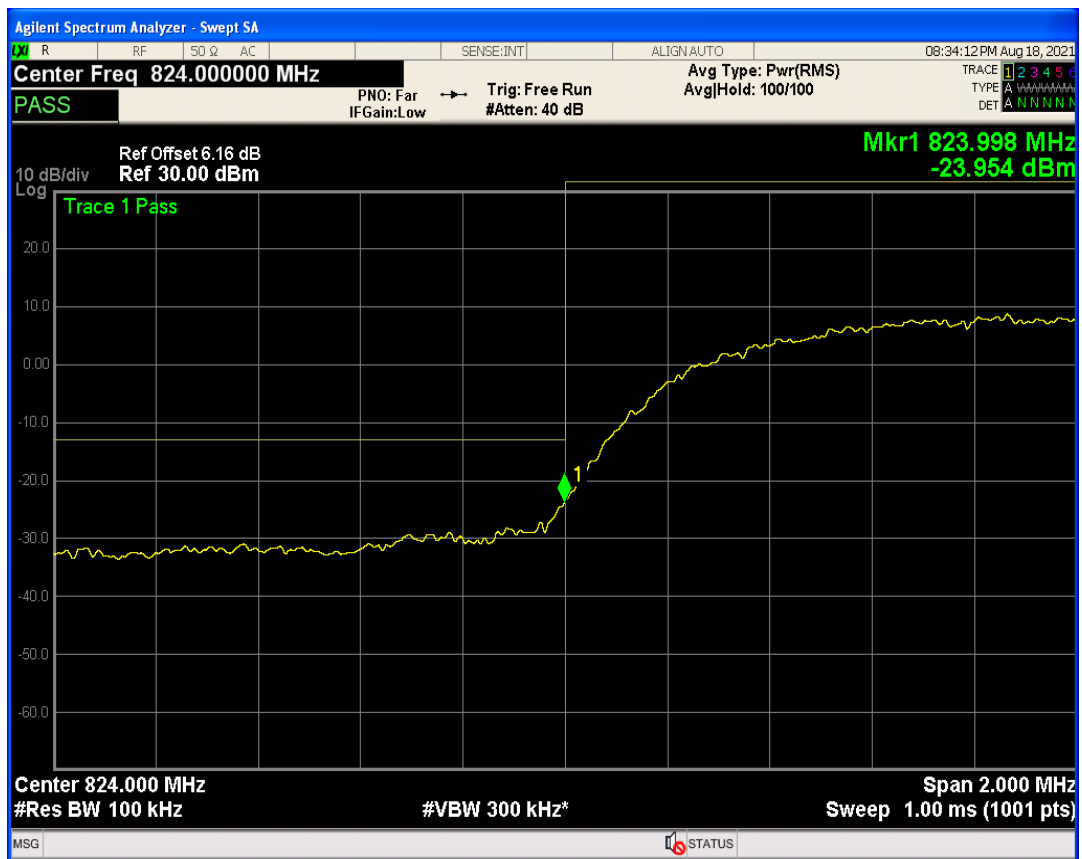
WCDMA Band2 Channel=9538



WCDMA Band2 Channel=9262



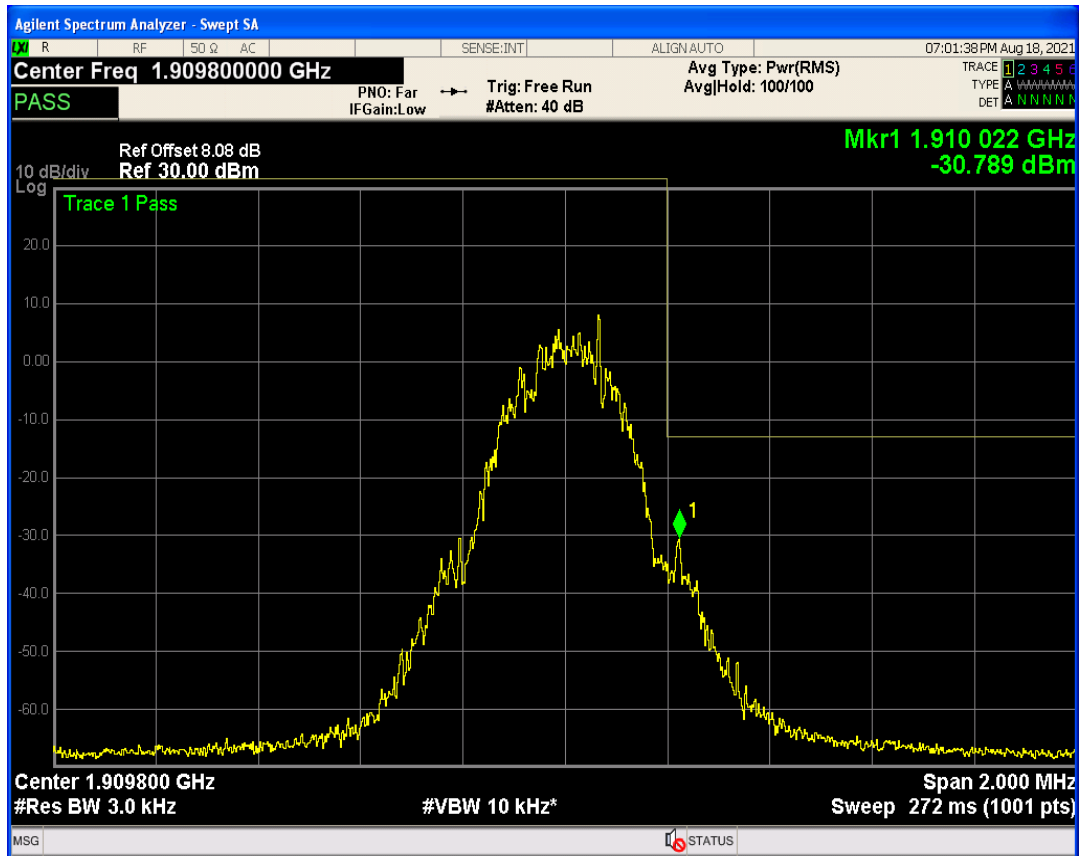
WCDMA Band5 Channel=4132



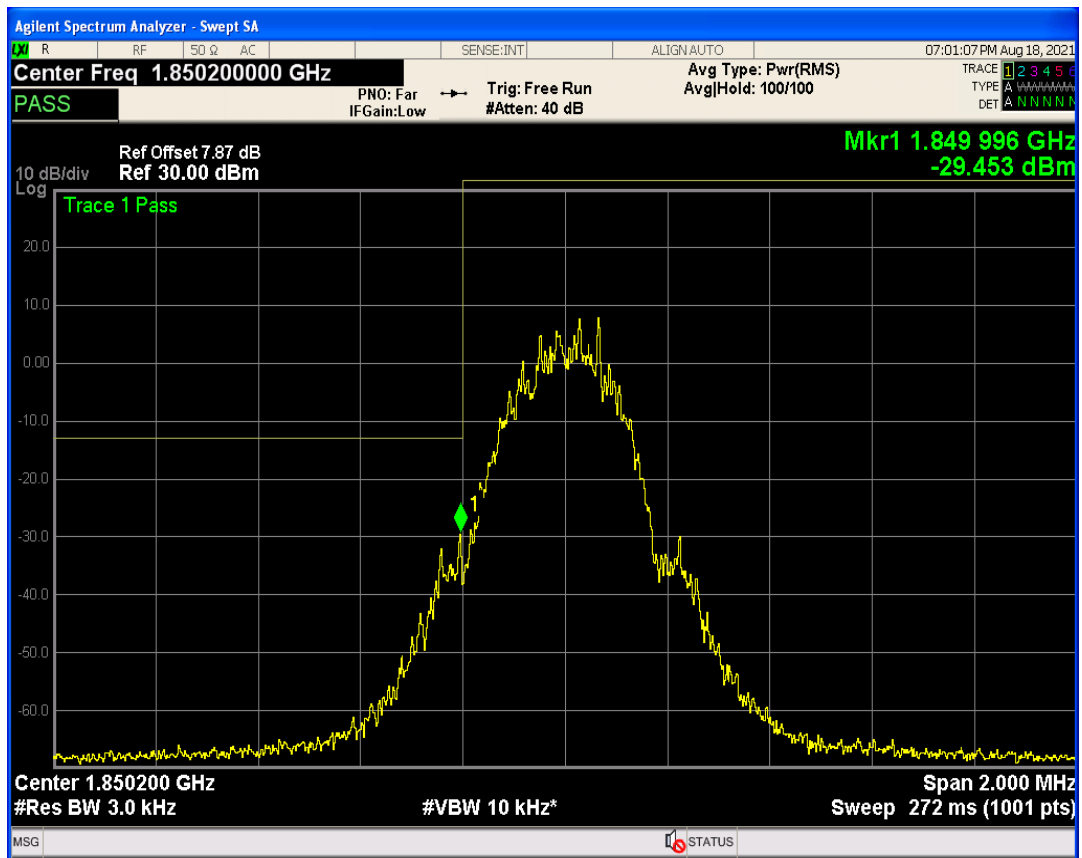
WCDMA Band5 Channel=4233



GSM1900 Channel=810



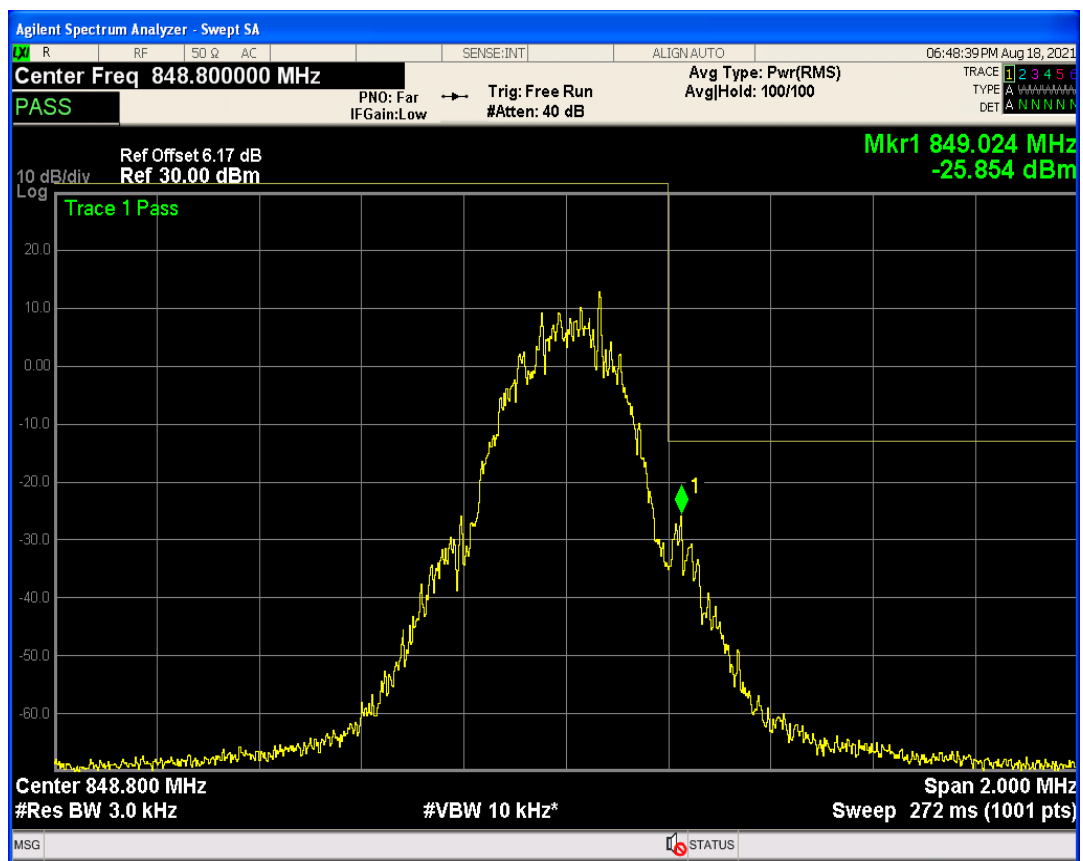
GSM1900 Channel=512



GSM850 Channel=128



GSM850 Channel=251



Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
WCDMA Band2	9262	1852.4	19981.03	-23.80	-13	PASS
WCDMA Band2	9400	1880	19879.68	-23.00	-13	PASS
WCDMA Band2	9538	1907.6	18495.26	-24.00	-13	PASS
WCDMA Band5	4132	826.4	3102.50	-30.08	-13	PASS
WCDMA Band5	4182	836.4	7449.92	-30.30	-13	PASS
WCDMA Band5	4233	846.6	7218.62	-30.17	-13	PASS
GSM1900	512	1850.2	19879.18	-24.03	-13	PASS
GSM1900	661	1880	19951.57	-23.59	-13	PASS
GSM1900	810	1909.8	19939.59	-23.77	-13	PASS
GSM850	128	824.2	2469.41	-29.92	-13	PASS
GSM850	189	836.4	6211.15	-30.11	-13	PASS
GSM850	251	848.8	1697.73	-29.33	-13	PASS

[illegible]

[illegible]

Agilent Spectrum Analyzer - Swept SA

R RF 50 Ω AC SENSE:INT ALIGN AUTO 07:36:41 PM Aug 18, 2021

Center Freq 10.01500000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
IFGain: Low #Atten: 40 dB AvgHold: 100/100

TRACE 1 2 3 4 5 6 TYPE M N N N N N DET P N N N N N

Ref Offset 8.08 dB
Ref 30.00 dBm

Mkr1 1.909 2 GHz
21.497 dBm

10 dB/div
Log

-13.68 dBm

Start 30 MHz Stop 20.000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 50.7 ms (40001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.909 2 GHz	21.497 dBm			
2	N	1	f	18.496 3 GHz	-24.006 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Agilent Spectrum Analyzer - Swept SA

08:35:06 PM Aug 18, 2021

Center Freq 5.01500000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 40 dB

Avg Type: Log-Pwr Avg/Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE M N N N N N

DET P N N N N N

Ref Offset 6.16 dB

Ref 30.00 dBm

Mkr1 837.57 MHz

22.927 dBm

10 dB/div

Log

Start 30 MHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 10.000 GHz

Sweep 18.7 ms (40001 pts)

MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	837.57 MHz	22.927 dBm			
2	N	1	f	7.449 92 GHz	-30.303 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG

STATUS

[illegible]

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 10.01500000 GHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 40 dB

Avg Type: Log-Pwr Avg/Hold: 100/100

07:02:20 PM Aug 18, 2021

TRACE 1 2 3 4 5 6
TYPE M
DET P NNNNN

Ref Offset 7.87 dB
Ref 30.00 dBm

Mkr1 1.850 3 GHz
28.679 dBm

10 dB/div
Log

Start 30 MHz
#Res BW 1.0 MHz

Stop 20.000 GHz
Sweep 50.7 ms (40001 pts)

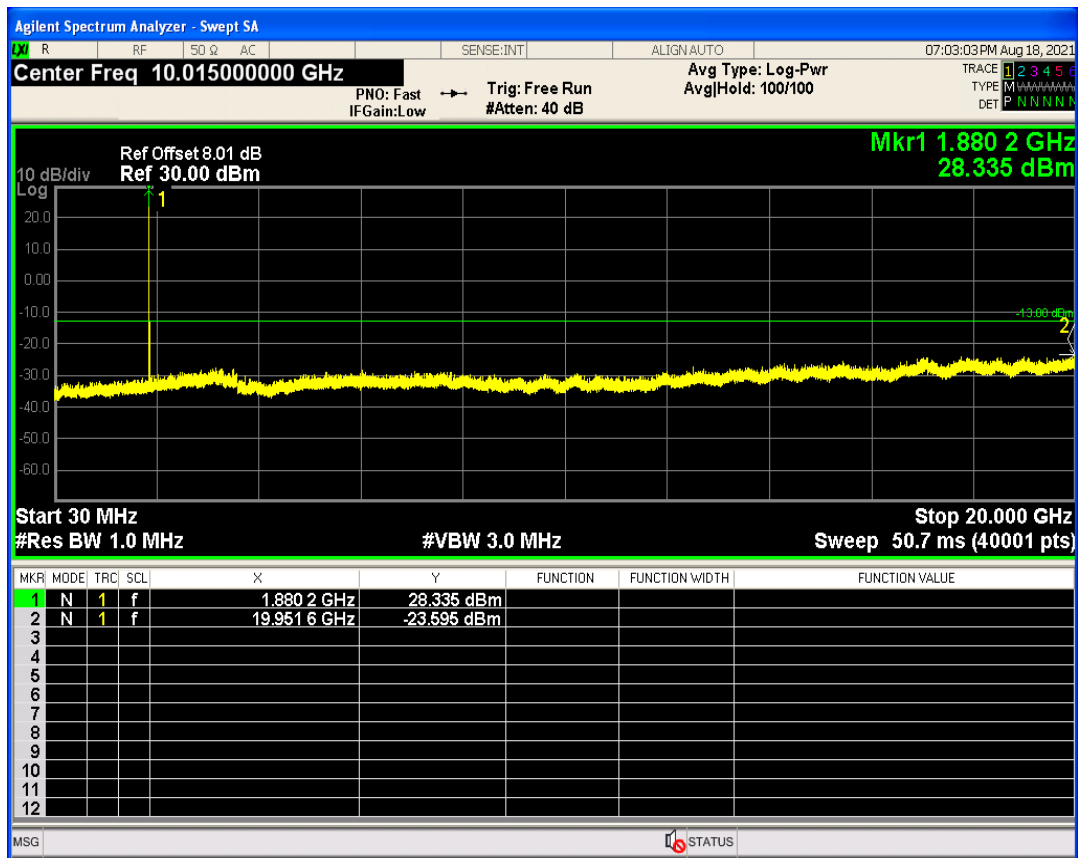
#VBW 3.0 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.850 3 GHz	28.679 dBm			
2	N	1	f	19.879 2 GHz	-24.038 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

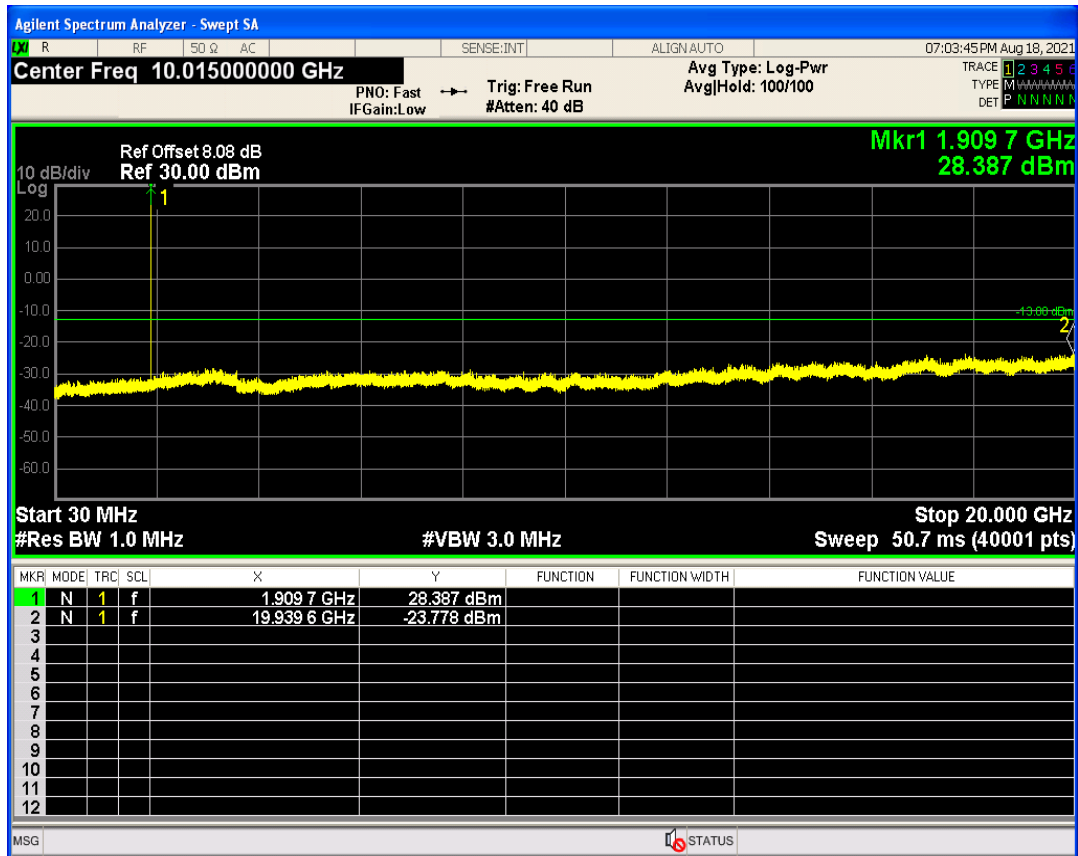
MSG

STATUS

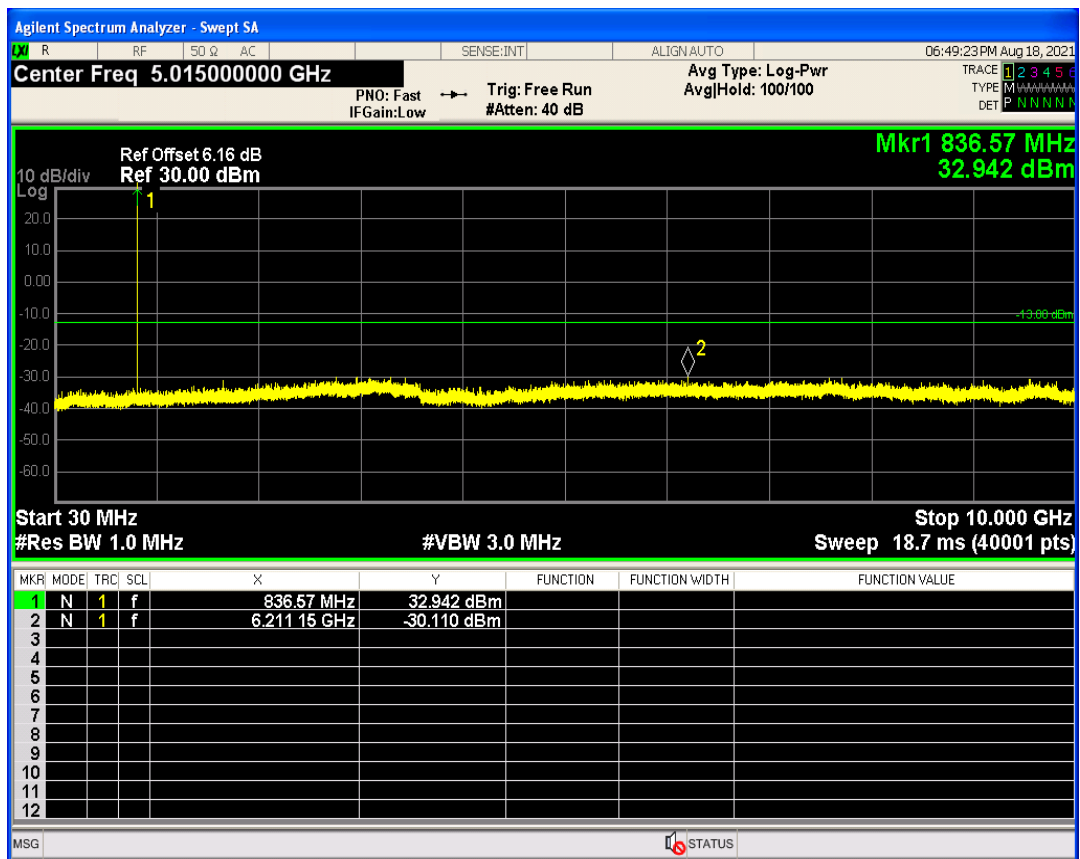
GSM1900 Channel=661



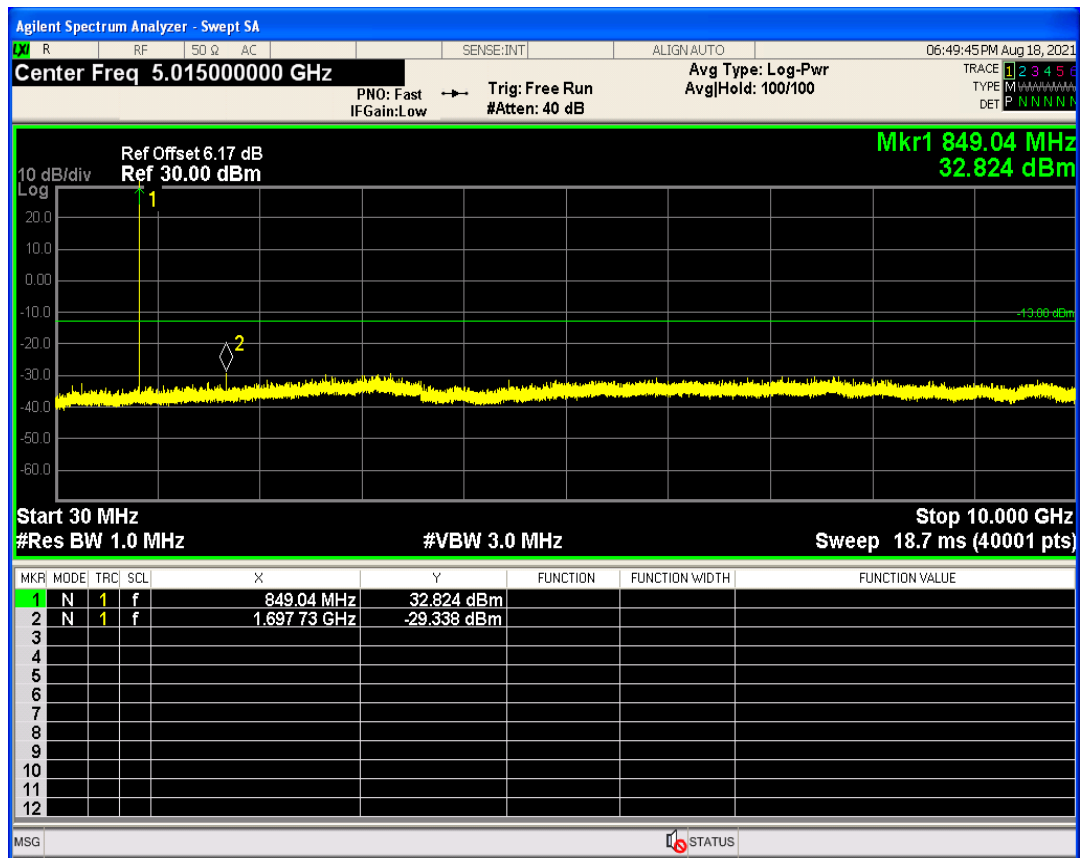
GSM1900 Channel=810



GSM850 Channel=189



GSM850 Channel=251



07 Conducted output power

Band	Channel	Frequency (MHz)	Power (dBm)	high Limit (dBm)	Verdict
HSDPA Band2 Subtest1	9262	1852.4	20.78	37	PASS
HSDPA Band2 Subtest2	9262	1852.4	20.50	37	PASS
HSDPA Band2 Subtest3	9262	1852.4	20.23	37	PASS
HSDPA Band2 Subtest4	9262	1852.4	19.76	37	PASS
HSDPA Band2 Subtest1	9400	1880	21.01	37	PASS
HSDPA Band2 Subtest2	9400	1880	20.77	37	PASS
HSDPA Band2 Subtest3	9400	1880	20.54	37	PASS
HSDPA Band2 Subtest4	9400	1880	19.89	37	PASS
HSDPA Band2 Subtest1	9538	1907.6	21.03	37	PASS
HSDPA Band2 Subtest2	9538	1907.6	20.85	37	PASS
HSDPA Band2 Subtest3	9538	1907.6	20.13	37	PASS
HSDPA Band2 Subtest4	9538	1907.6	19.98	37	PASS
HSDPA Band5 Subtest1	4132	826.4	22.41	37	PASS
HSDPA Band5 Subtest2	4132	826.4	21.96	37	PASS
HSDPA Band5 Subtest3	4132	826.4	21.71	37	PASS
HSDPA Band5 Subtest4	4132	826.4	21.61	37	PASS
HSDPA Band5 Subtest1	4182	836.4	21.74	37	PASS
HSDPA Band5 Subtest2	4182	836.4	21.49	37	PASS
HSDPA Band5 Subtest3	4182	836.4	21.22	37	PASS
HSDPA Band5 Subtest4	4182	836.4	21.06	37	PASS

HSDPA Band5 Subtest1	4233	846.6	21.64	37	PASS
HSDPA Band5 Subtest2	4233	846.6	21.42	37	PASS
HSDPA Band5 Subtest3	4233	846.6	21.20	37	PASS
HSDPA Band5 Subtest4	4233	846.6	20.97	37	PASS
GPRS1900 1 Slot	512	1850.2	28.04	37	PASS
GPRS1900 1 Slot	661	1880	27.56	37	PASS
GPRS1900 1 Slot	810	1909.8	27.63	37	PASS
GPRS1900 2 Slot	512	1850.2	26.69	37	PASS
GPRS1900 2 Slot	661	1880	26.68	37	PASS
GPRS1900 2 Slot	810	1909.8	26.53	37	PASS
GPRS1900 3 Slot	512	1850.2	24.21	37	PASS
GPRS1900 3 Slot	661	1880	24.15	37	PASS
GPRS1900 3 Slot	810	1909.8	23.69	37	PASS
GPRS1900 4 Slot	512	1850.2	22.54	37	PASS
GPRS1900 4 Slot	661	1880	22.06	37	PASS
GPRS1900 4 Slot	810	1909.8	22.68	37	PASS
GPRS850 1 Slot	128	824.2	32.36	37	PASS
GPRS850 1 Slot	189	836.4	32.66	37	PASS
GPRS850 1 Slot	251	848.8	32.60	37	PASS
GPRS850 2 Slot	128	824.2	30.27	37	PASS
GPRS850 2 Slot	189	836.4	30.51	37	PASS
GPRS850 2 Slot	251	848.8	30.44	37	PASS
GPRS850 3 Slot	128	824.2	28.35	37	PASS
GPRS850 3 Slot	189	836.4	28.52	37	PASS
GPRS850 3 Slot	251	848.8	28.45	37	PASS
GPRS850 4 Slot	128	824.2	26.14	37	PASS
GPRS850 4 Slot	189	836.4	26.30	37	PASS
GPRS850 4 Slot	251	848.8	26.30	37	PASS

13 Conducted output power

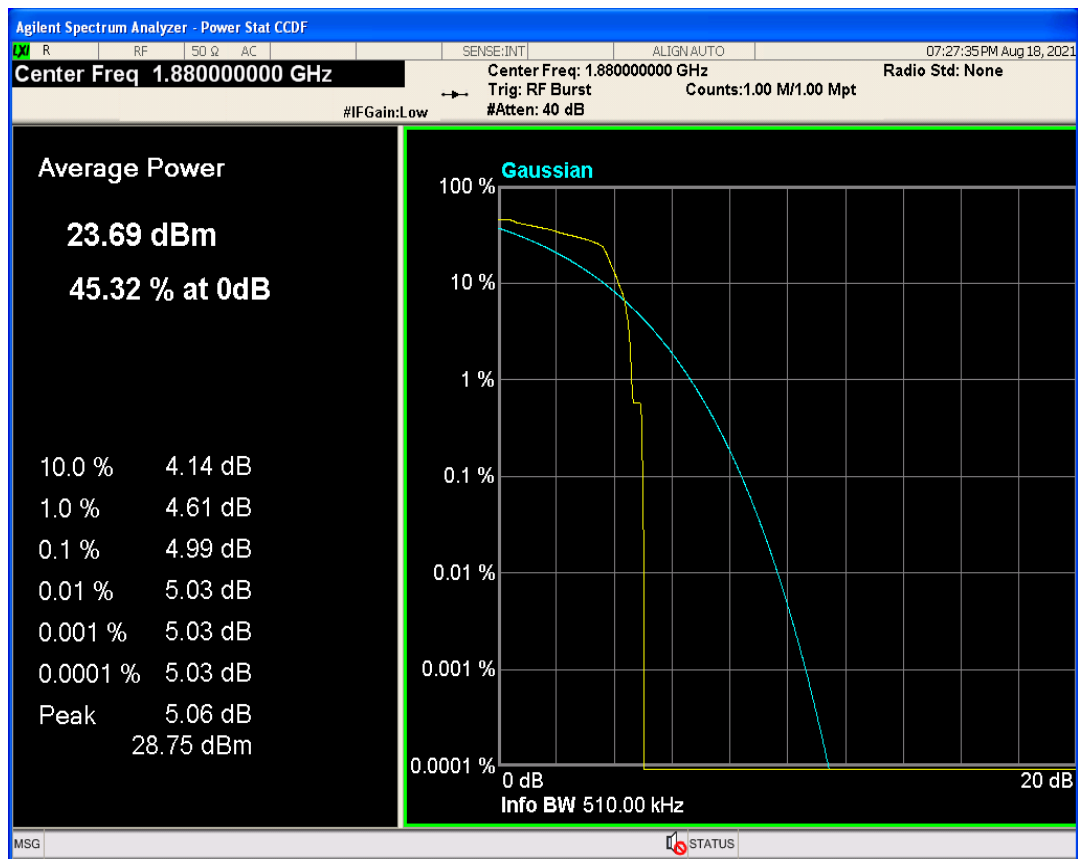
Band	Channel	Frequency (MHz)	Power (dBm)	high Limit (dBm)	Verdict
EGPRS1900 1 Slot	512	1850.2	26.73	37	PASS
EGPRS1900 1 Slot	661	1880	25.81	37	PASS
EGPRS1900 1 Slot	810	1909.8	24.33	37	PASS
EGPRS1900 2 Slot	512	1850.2	25.48	37	PASS
EGPRS1900 2 Slot	661	1880	24.93	37	PASS
EGPRS1900 2 Slot	810	1909.8	23.76	37	PASS
EGPRS1900 3 Slot	512	1850.2	24.66	37	PASS
EGPRS1900 3 Slot	661	1880	23.79	37	PASS
EGPRS1900 3 Slot	810	1909.8	22.77	37	PASS
EGPRS1900 4 Slot	512	1850.2	21.45	37	PASS
EGPRS1900 4 Slot	661	1880	20.27	37	PASS
EGPRS1900 4 Slot	810	1909.8	19.61	37	PASS
EGPRS850 1 Slot	128	824.2	26.42	37	PASS

EGPRS850 1 Slot	189	836.4	27.14	37	PASS
EGPRS850 1 Slot	251	848.8	26.73	37	PASS
EGPRS850 2 Slot	128	824.2	25.16	37	PASS
EGPRS850 2 Slot	189	836.4	26.15	37	PASS
EGPRS850 2 Slot	251	848.8	25.71	37	PASS
EGPRS850 3 Slot	128	824.2	22.26	37	PASS
EGPRS850 3 Slot	189	836.4	23.38	37	PASS
EGPRS850 3 Slot	251	848.8	23.14	37	PASS
EGPRS850 4 Slot	128	824.2	20.28	37	PASS
EGPRS850 4 Slot	189	836.4	21.74	37	PASS
EGPRS850 4 Slot	251	848.8	21.34	37	PASS
HSUPA Band2 Subtest1	9262	1852.4	20.71	37	PASS
HSUPA Band2 Subtest2	9262	1852.4	20.79	37	PASS
HSUPA Band2 Subtest3	9262	1852.4	20.33	37	PASS
HSUPA Band2 Subtest4	9262	1852.4	20.55	37	PASS
HSUPA Band2 Subtest5	9262	1852.4	20.54	37	PASS
HSUPA Band2 Subtest1	9400	1880	21.01	37	PASS
HSUPA Band2 Subtest2	9400	1880	21.04	37	PASS
HSUPA Band2 Subtest3	9400	1880	20.65	37	PASS
HSUPA Band2 Subtest4	9400	1880	20.92	37	PASS
HSUPA Band2 Subtest5	9400	1880	20.62	37	PASS
HSUPA Band2 Subtest1	9538	1907.6	20.91	37	PASS
HSUPA Band2 Subtest2	9538	1907.6	21.03	37	PASS
HSUPA Band2 Subtest3	9538	1907.6	20.65	37	PASS
HSUPA Band2 Subtest4	9538	1907.6	20.97	37	PASS
HSUPA Band2 Subtest5	9538	1907.6	20.74	37	PASS
HSUPA Band5 Subtest1	4132	826.4	22.31	37	PASS
HSUPA Band5 Subtest2	4132	826.4	22.25	37	PASS
HSUPA Band5 Subtest3	4132	826.4	21.81	37	PASS
HSUPA Band5 Subtest4	4132	826.4	22.21	37	PASS
HSUPA Band5 Subtest5	4132	826.4	21.92	37	PASS
HSUPA Band5 Subtest1	4182	836.4	21.62	37	PASS
HSUPA Band5 Subtest2	4182	836.4	21.66	37	PASS
HSUPA Band5 Subtest3	4182	836.4	21.38	37	PASS
HSUPA Band5 Subtest4	4182	836.4	21.60	37	PASS
HSUPA Band5 Subtest5	4182	836.4	21.33	37	PASS
HSUPA Band5 Subtest1	4233	846.6	21.31	37	PASS
HSUPA Band5 Subtest2	4233	846.6	21.55	37	PASS
HSUPA Band5 Subtest3	4233	846.6	21.07	37	PASS
HSUPA Band5 Subtest4	4233	846.6	21.37	37	PASS
HSUPA Band5 Subtest5	4233	846.6	21.57	37	PASS

15 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
EGPRS1900	512	1850.2	4.53	13.00	PASS
EGPRS1900	661	1880	4.99	13.00	PASS
EGPRS1900	810	1909.8	6.00	13.00	PASS
EGPRS850	128	824.2	8.60	13.00	PASS
EGPRS850	189	836.4	7.99	13.00	PASS
EGPRS850	251	848.8	8.34	13.00	PASS

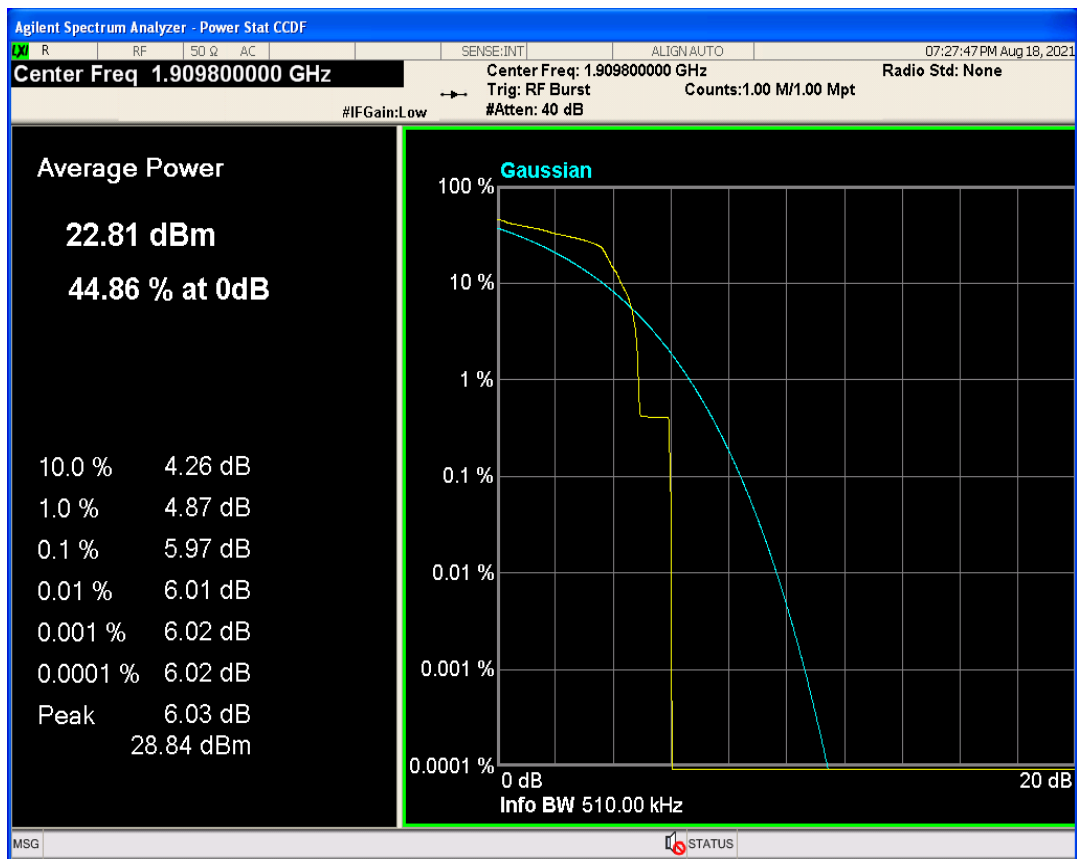
EGPRS1900 Channel=661



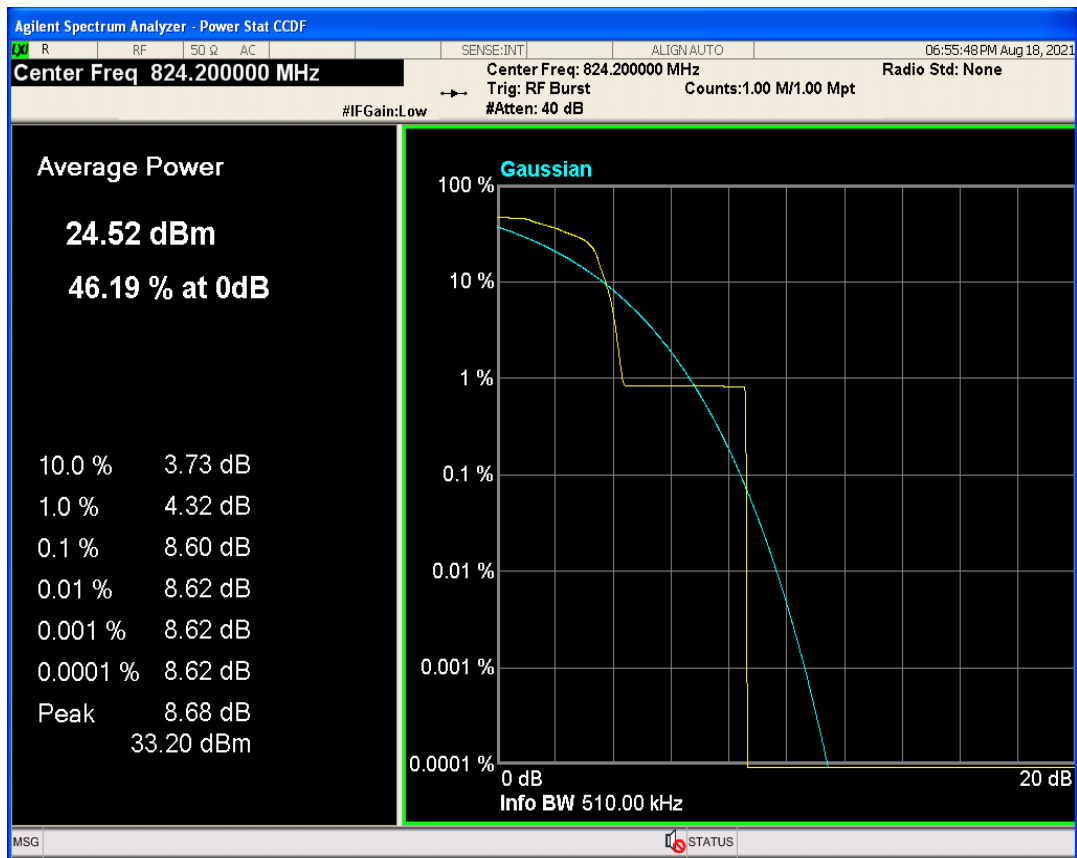
EGPRS1900 Channel=512



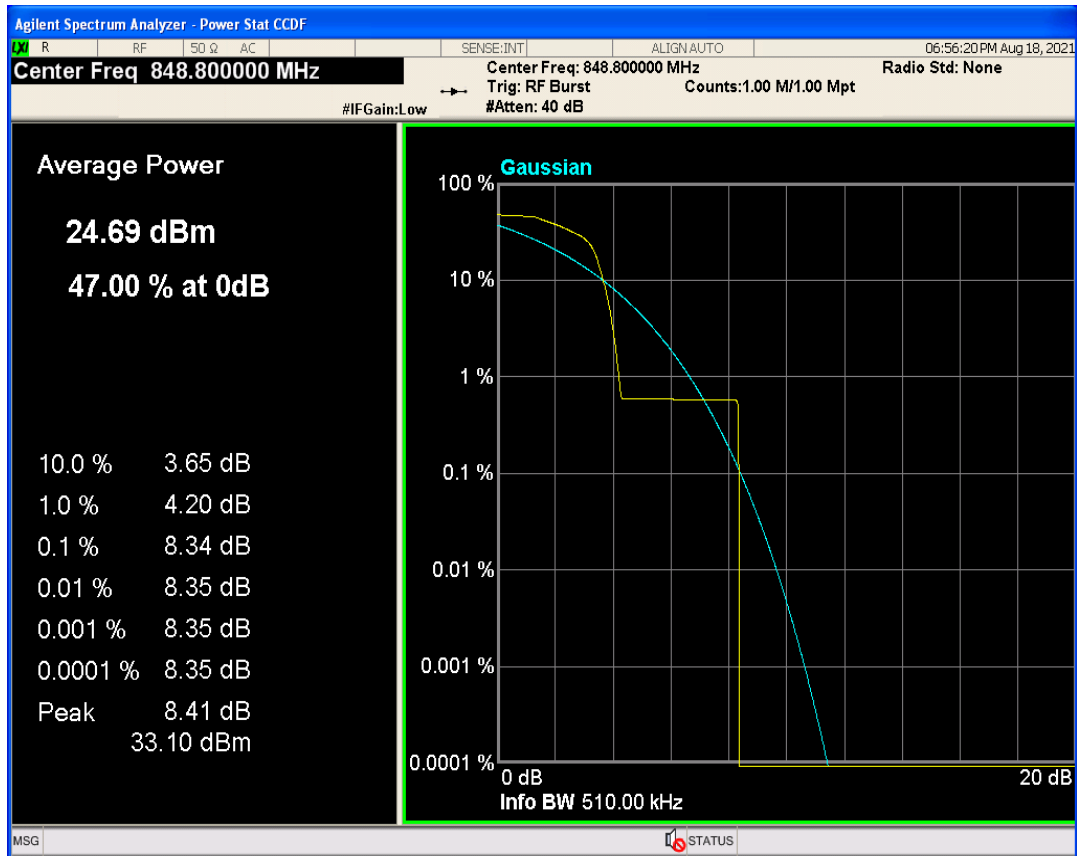
EGPRS1900 Channel=810



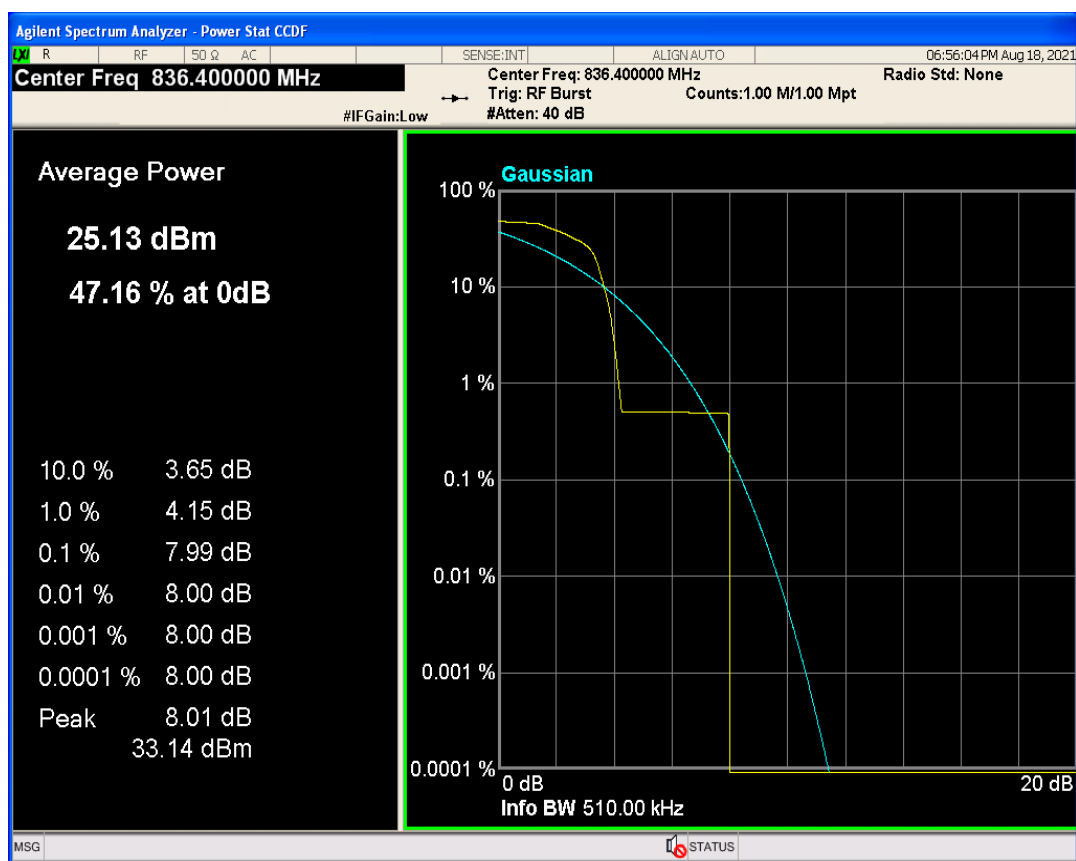
EGPRS850 Channel=128



EGPRS850 Channel=251



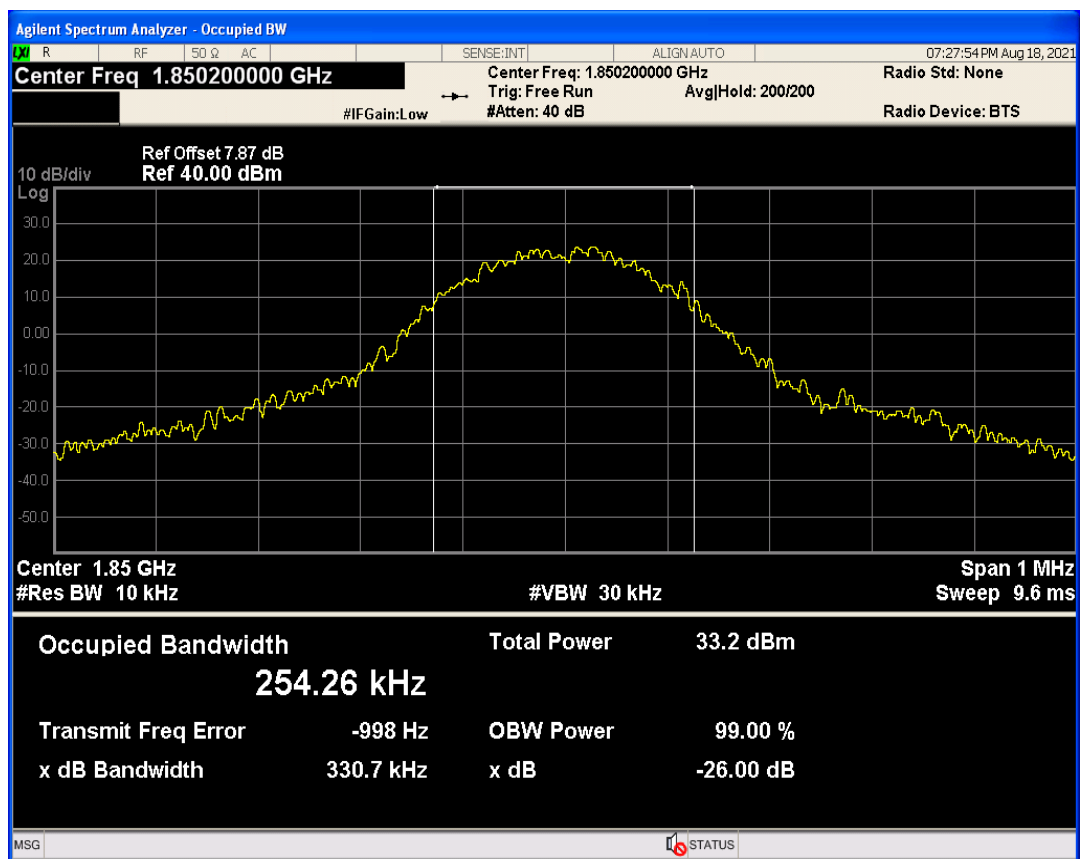
EGPRS850 Channel=189



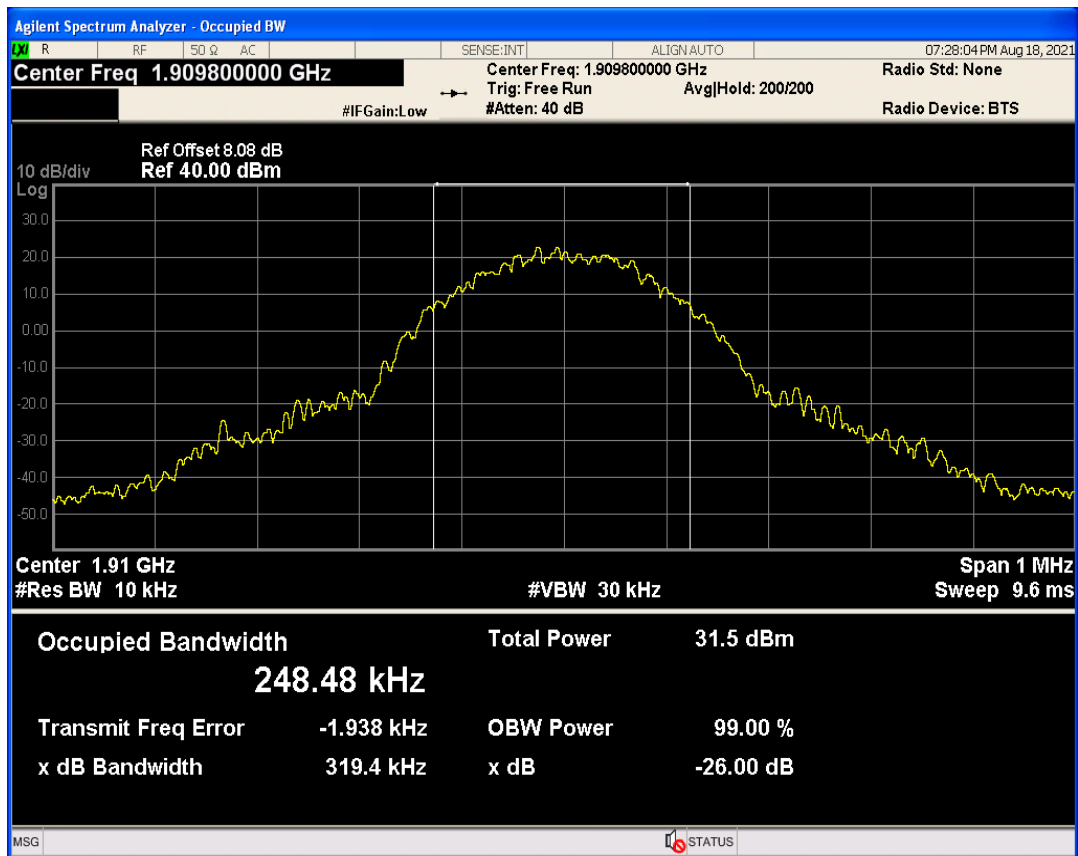
16 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
EGPRS1900	512	1850.2	254.256	330.712	PASS
EGPRS1900	661	1880	255.466	326.132	PASS
EGPRS1900	810	1909.8	248.483	319.420	PASS
EGPRS850	128	824.2	265.564	335.603	PASS
EGPRS850	189	836.4	271.185	392.845	PASS
EGPRS850	251	848.8	275.971	404.650	PASS

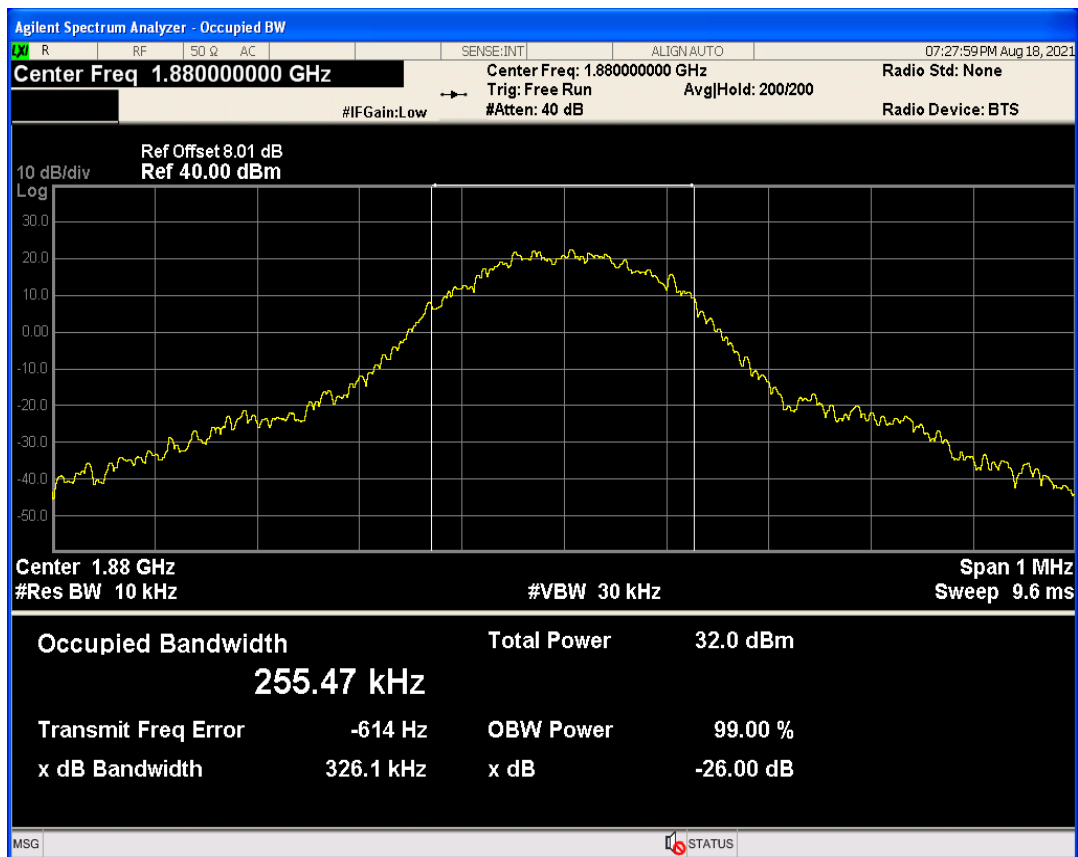
EGPRS1900 Channel=512



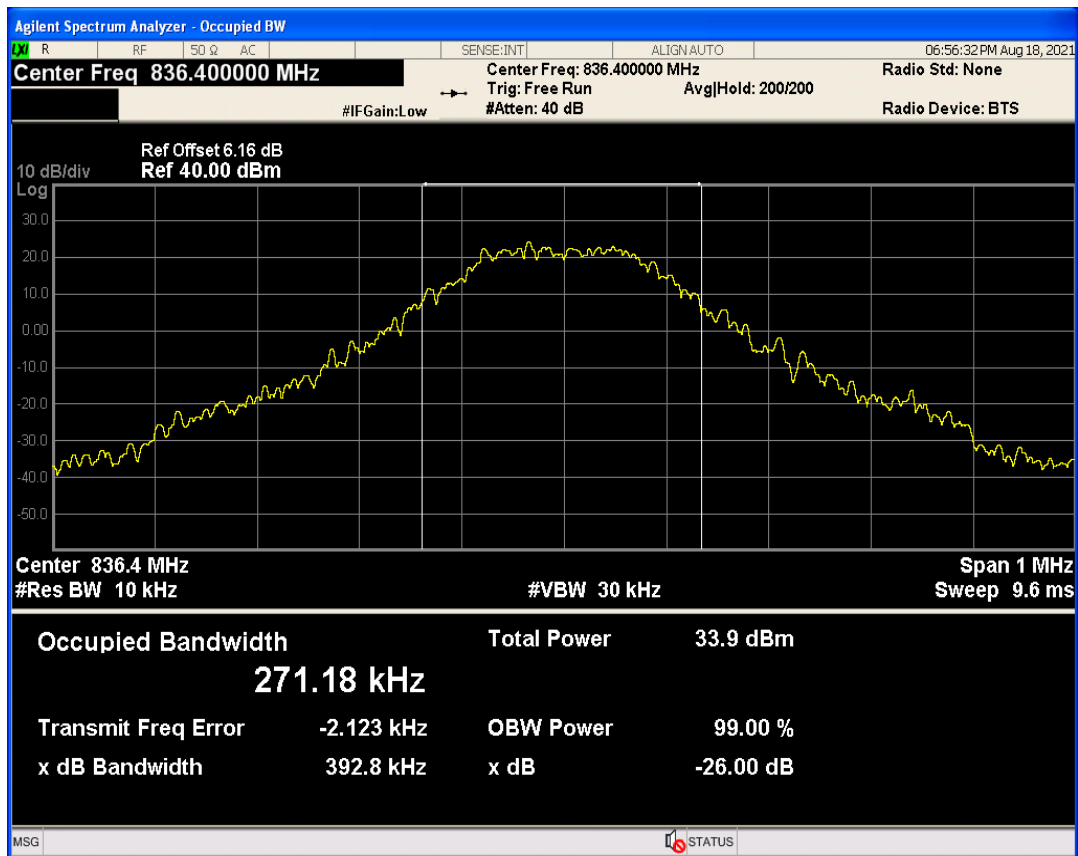
EGPRS1900 Channel=810



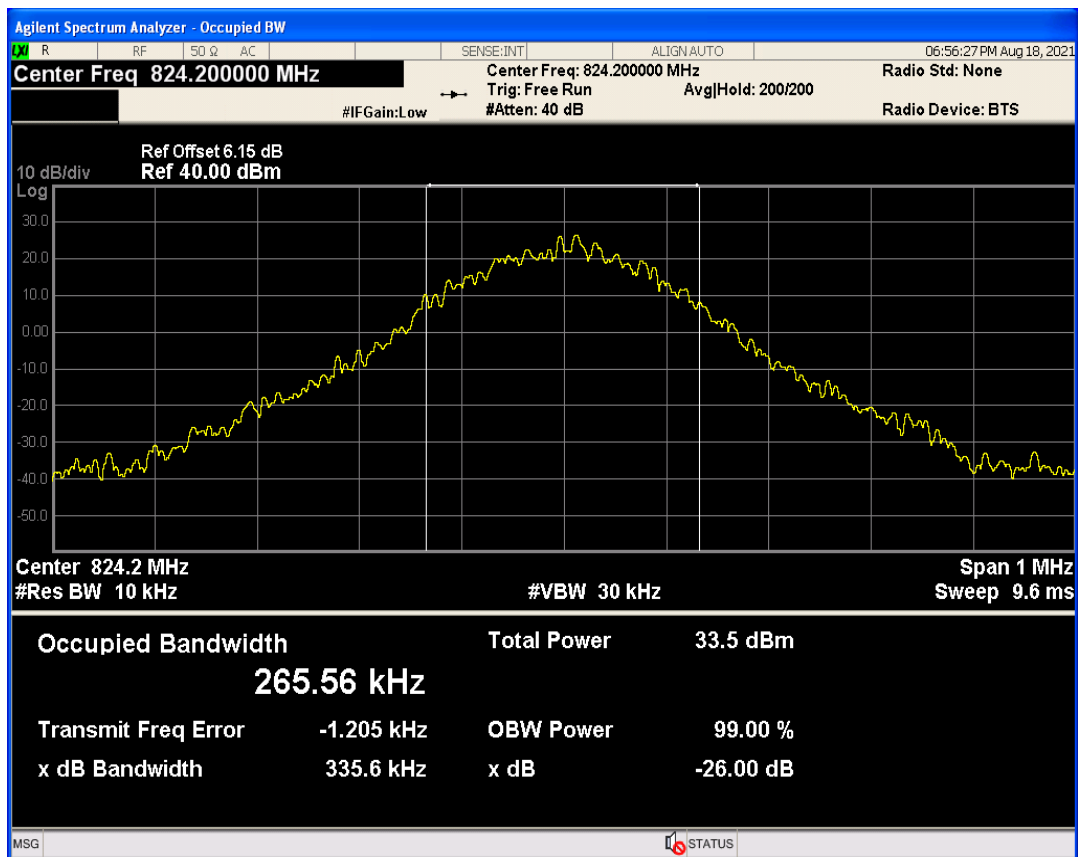
EGPRS1900 Channel=661



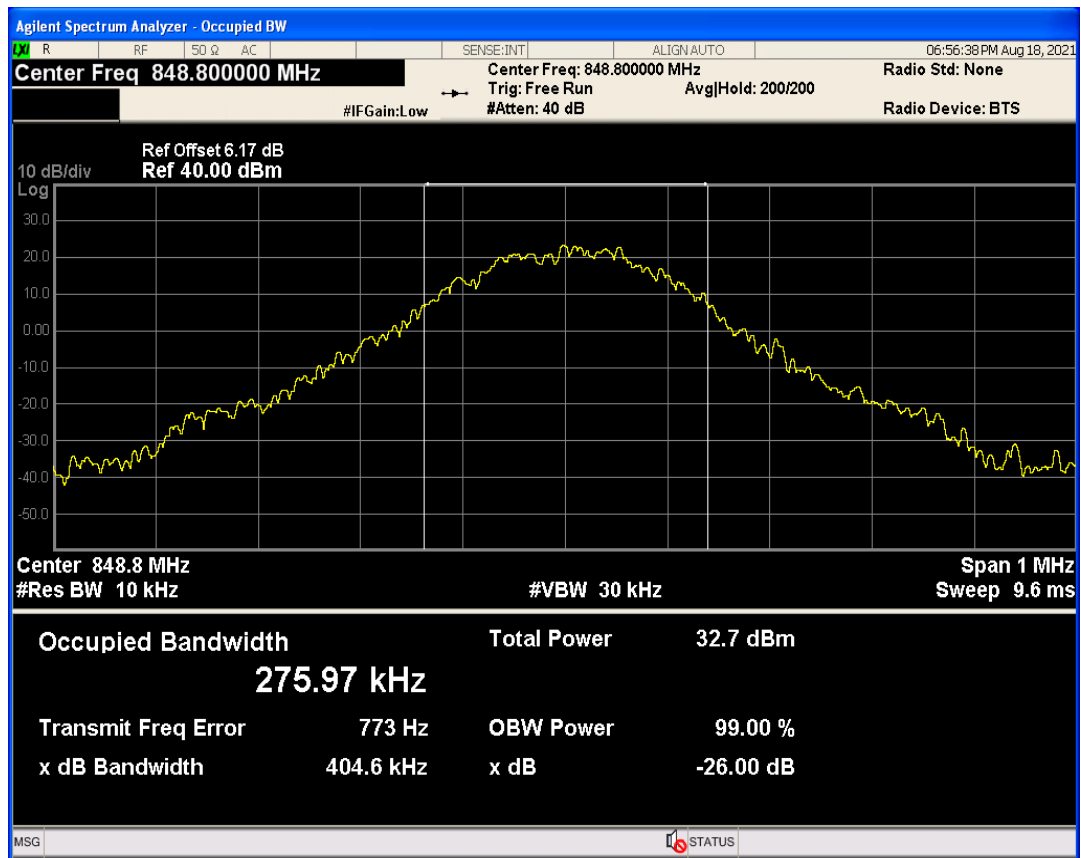
EGPRS850 Channel=189



EGPRS850 Channel=128



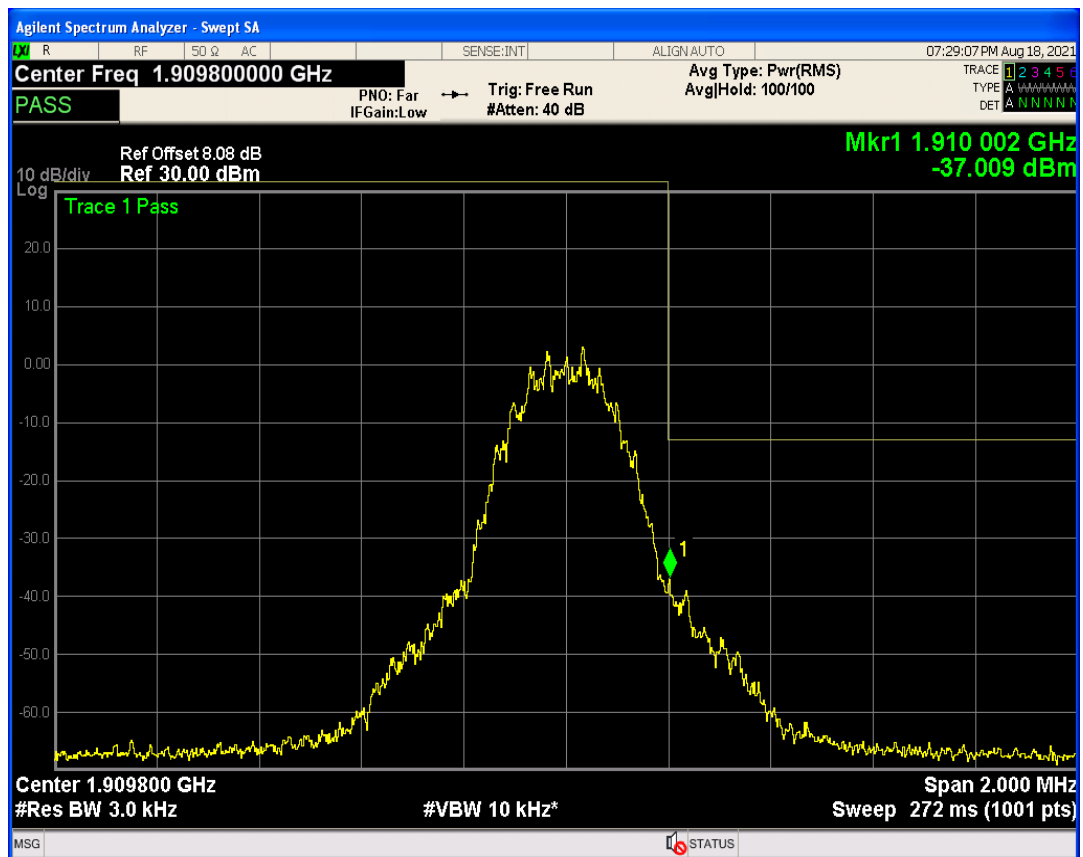
EGPRS850 Channel=251



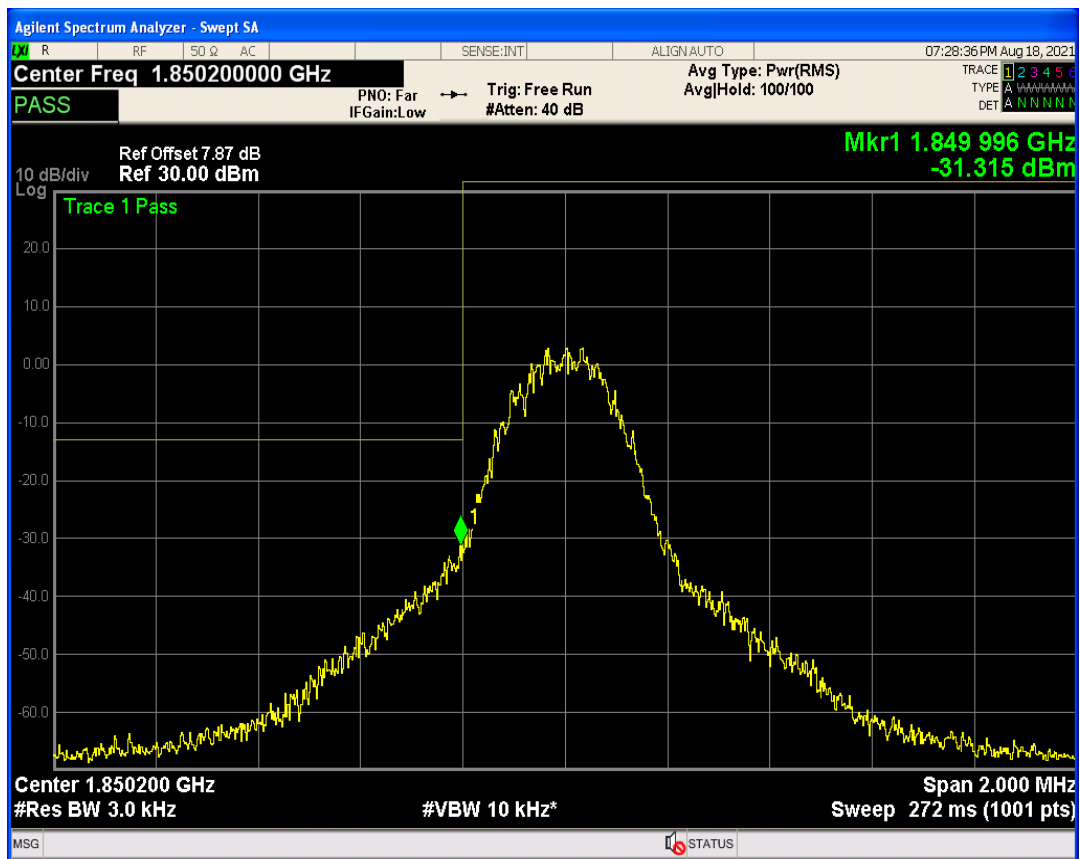
17 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
EGPRS1900	512	1850.2	1850.00	-31.31	-13	PASS
EGPRS1900	810	1909.8	1910.00	-37.00	-13	PASS
EGPRS850	128	824.2	823.99	-28.20	-13	PASS
EGPRS850	251	848.8	849.00	-25.18	-13	PASS

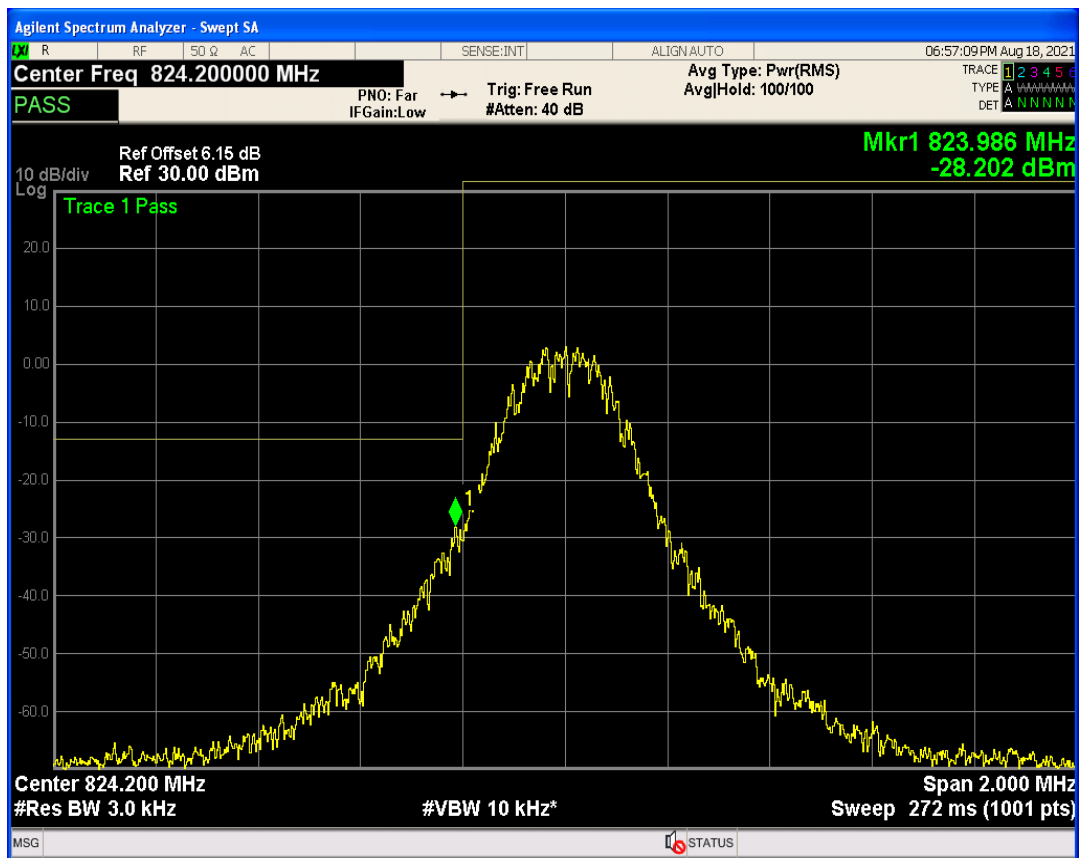
EGPRS1900 Channel=810



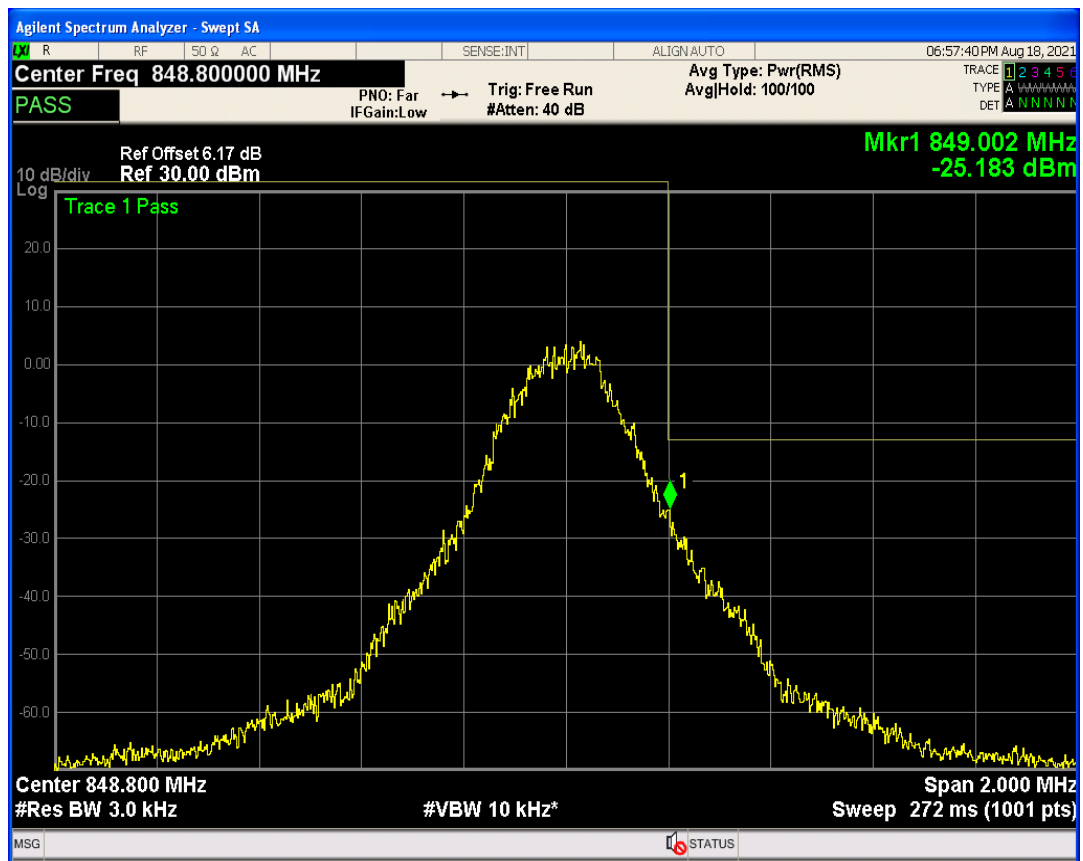
EGPRS1900 Channel=512



EGPRS850 Channel=128



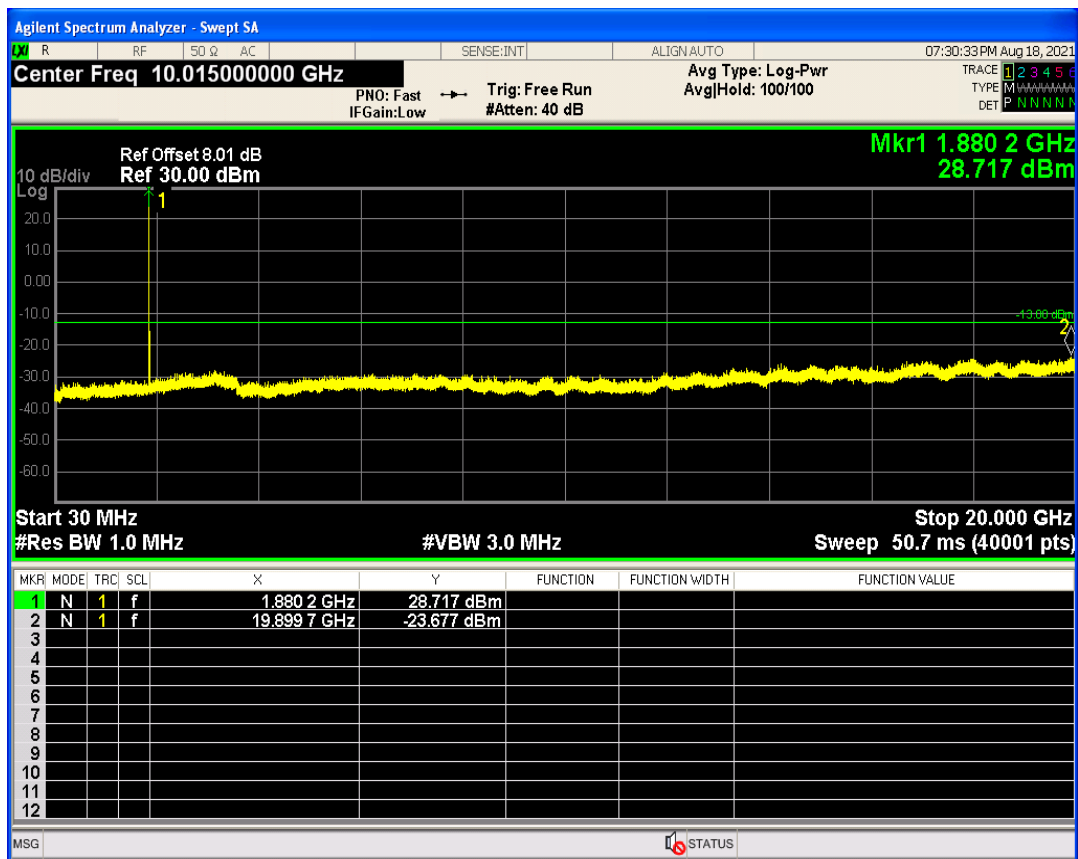
EGPRS850 Channel=251



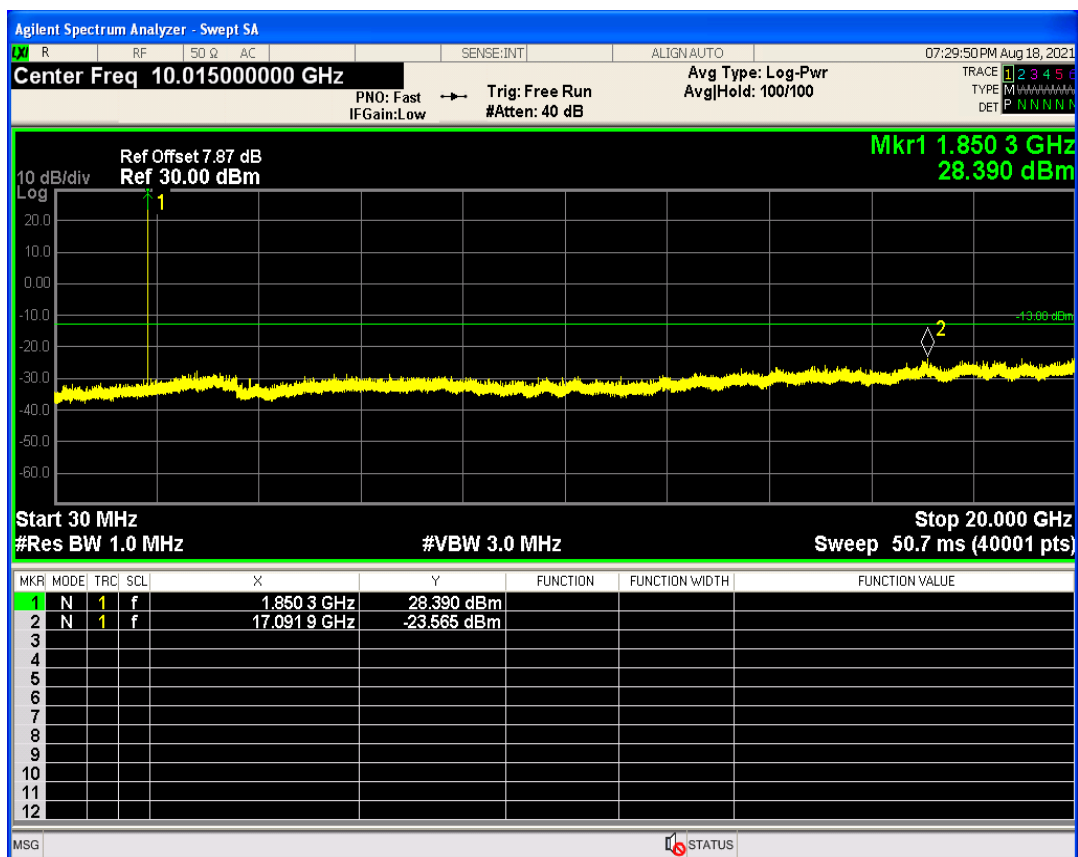
18 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
EGPRS1900	512	1850.2	17091.87	-23.56	-13	PASS
EGPRS1900	661	1880	19899.65	-23.67	-13	PASS
EGPRS1900	810	1909.8	19974.04	-23.35	-13	PASS
EGPRS850	128	824.2	5825.56	-28.86	-13	PASS
EGPRS850	189	836.4	2738.60	-30.09	-13	PASS
EGPRS850	251	848.8	3118.71	-29.19	-13	PASS

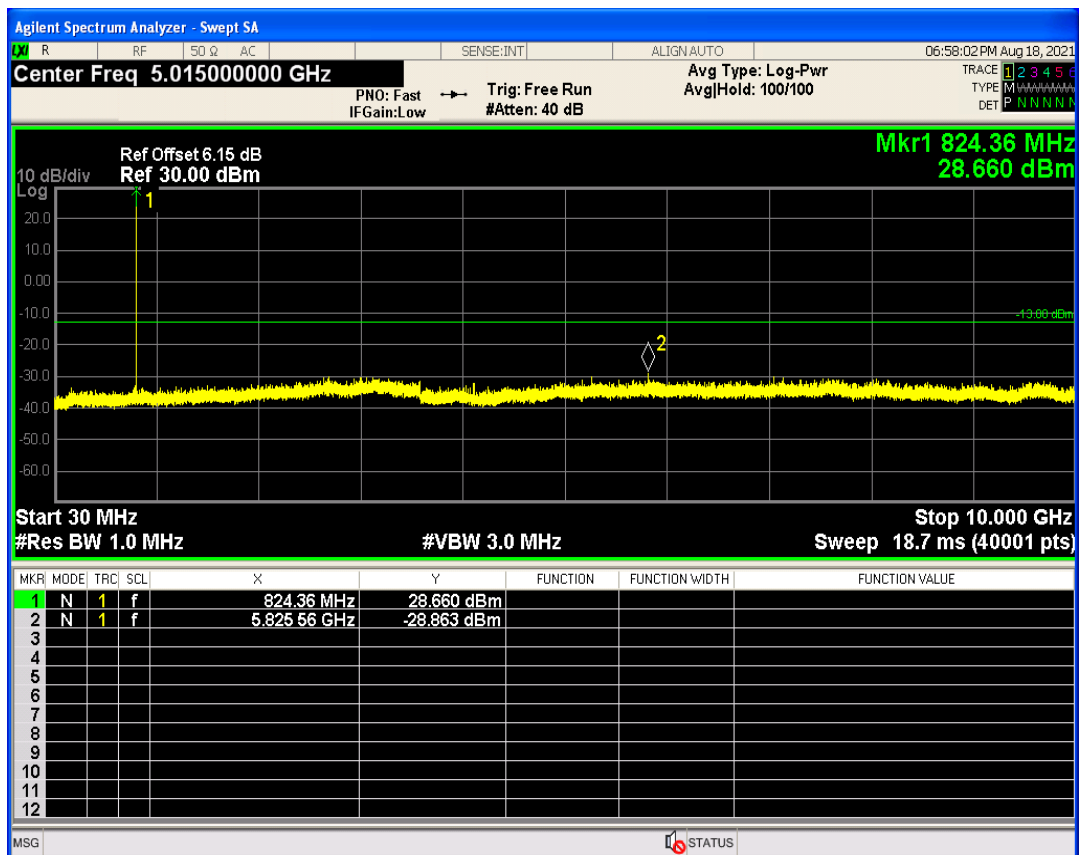
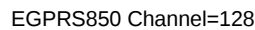
EGPRS1900 Channel=661



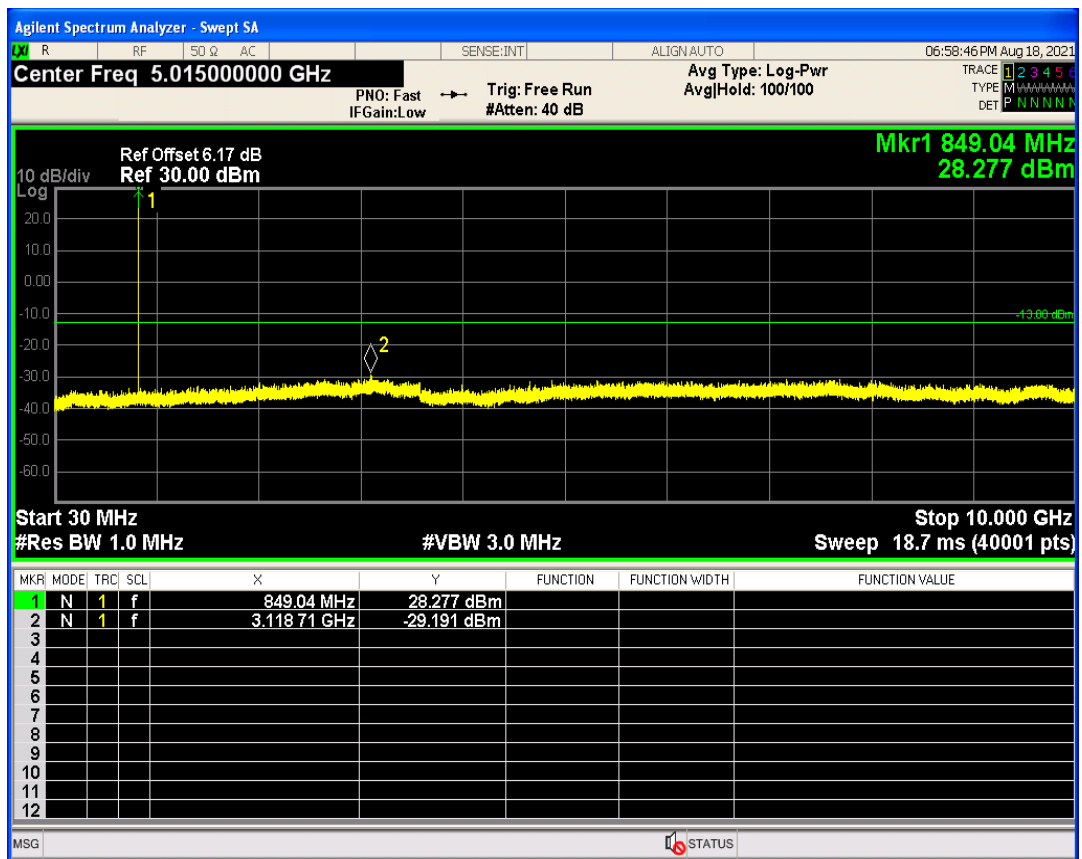
EGPRS1900 Channel=512



EGPRS1900 Channel=810



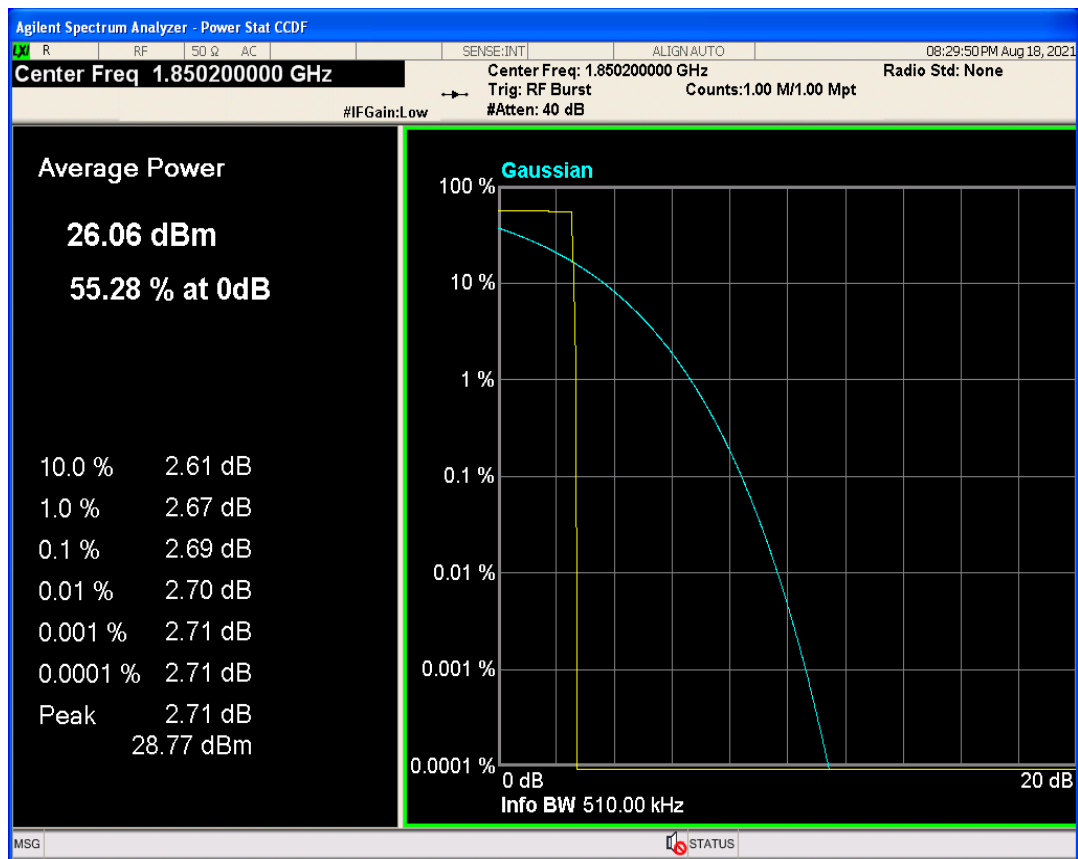
EGPRS850 Channel=251



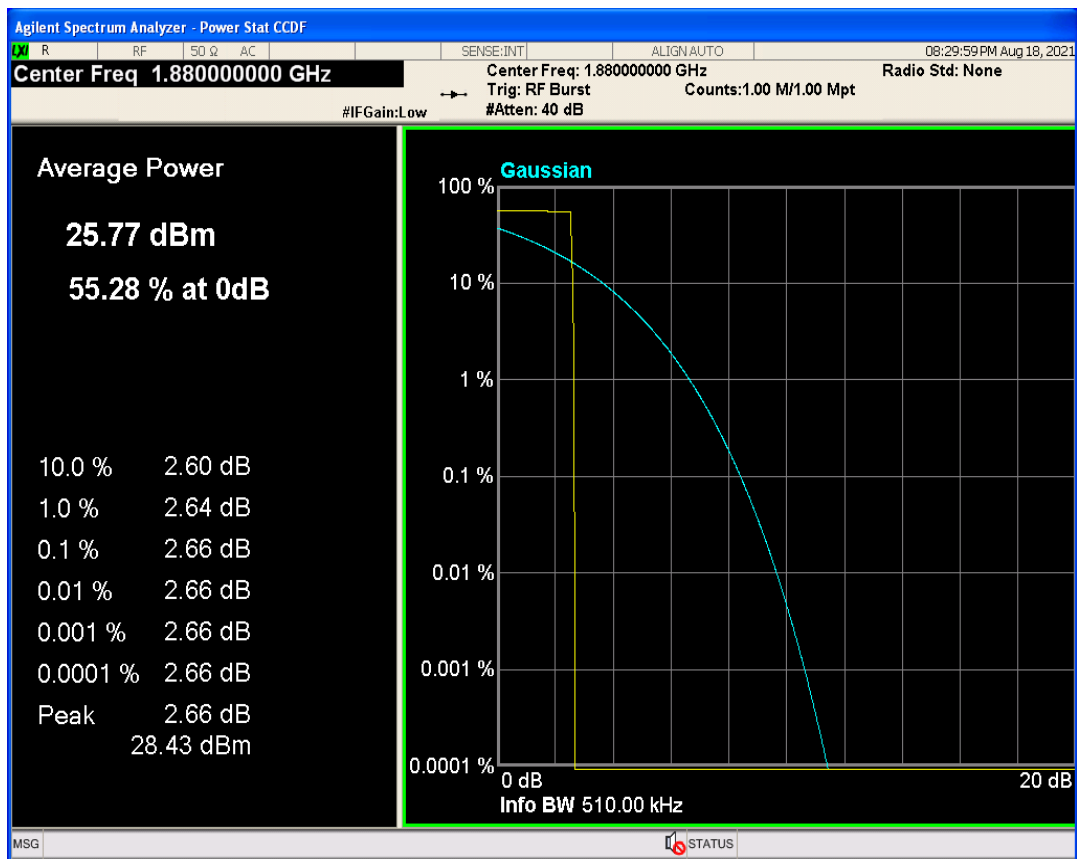
09 Peak-to-Average Ratio

Band	Channel	Frequency (MHz)	Result (dB)	high Limit (dB)	Verdict
GPRS1900	512	1850.2	2.69	13.00	PASS
GPRS1900	661	1880	2.66	13.00	PASS
GPRS1900	810	1909.8	2.65	13.00	PASS
GPRS850	128	824.2	2.67	13.00	PASS
GPRS850	189	836.4	2.65	13.00	PASS
GPRS850	251	848.8	2.66	13.00	PASS

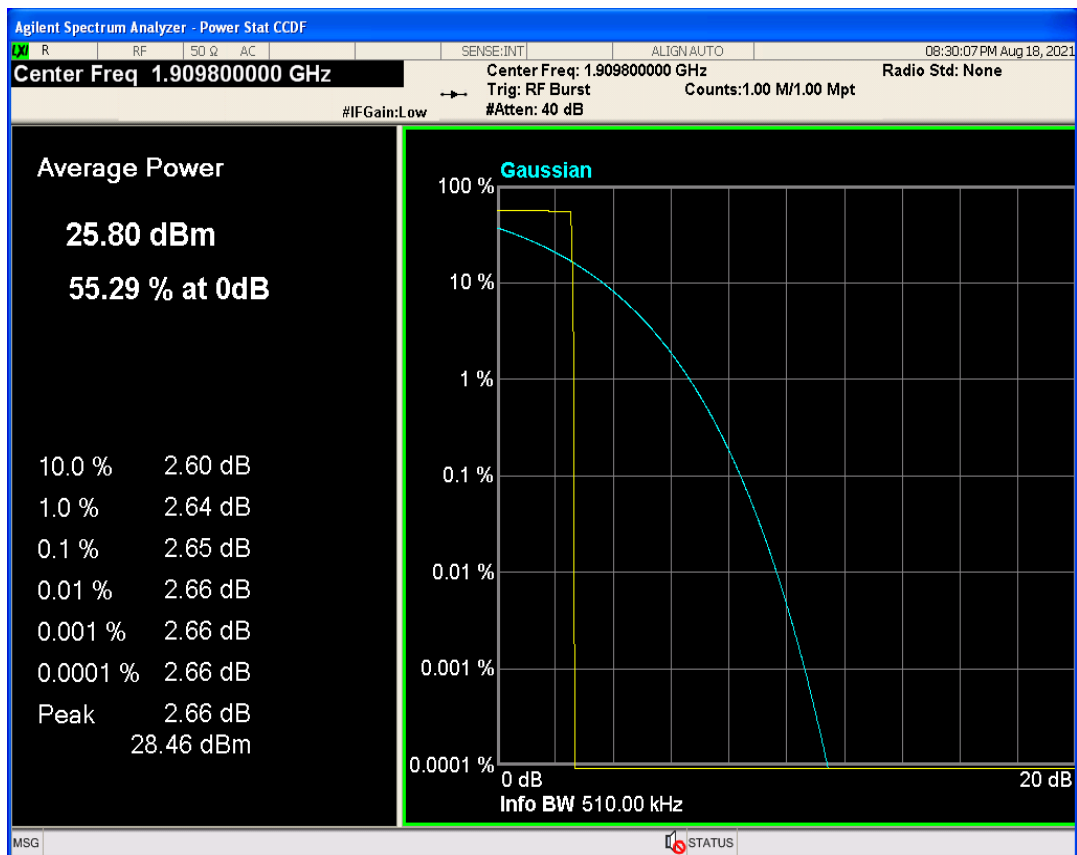
GPRS1900 Channel=512



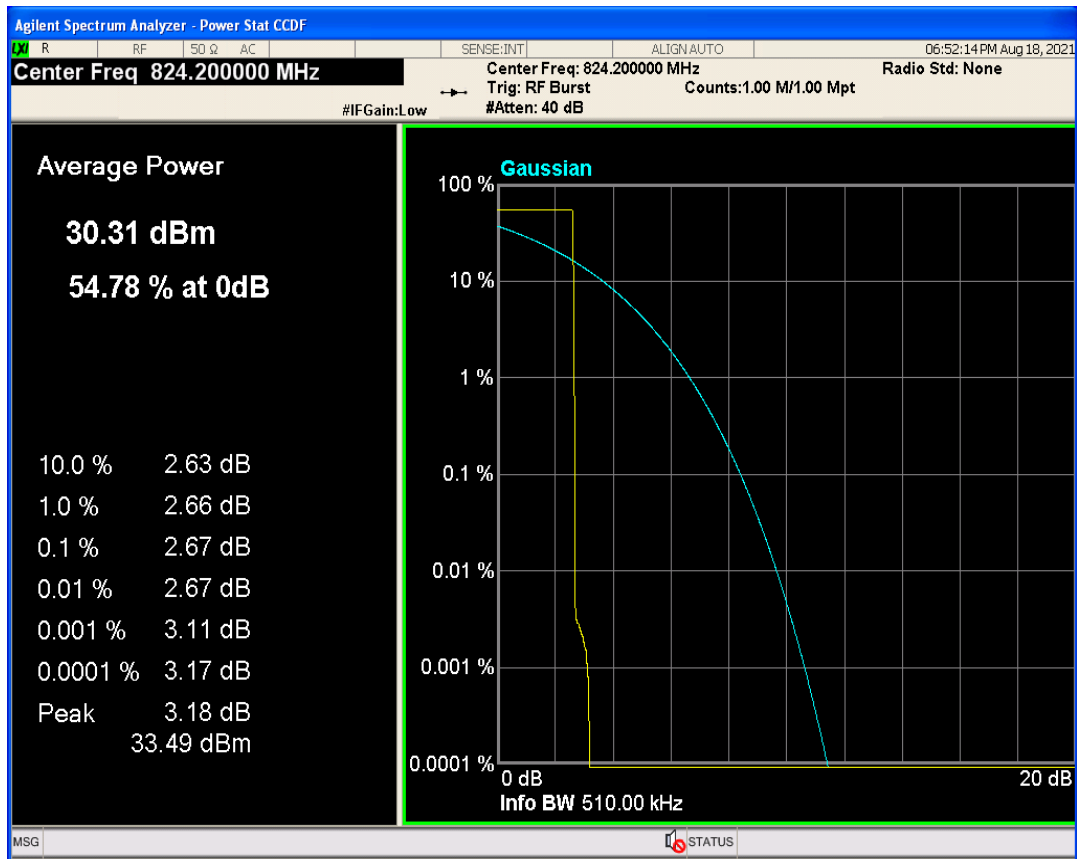
GPRS1900 Channel=661



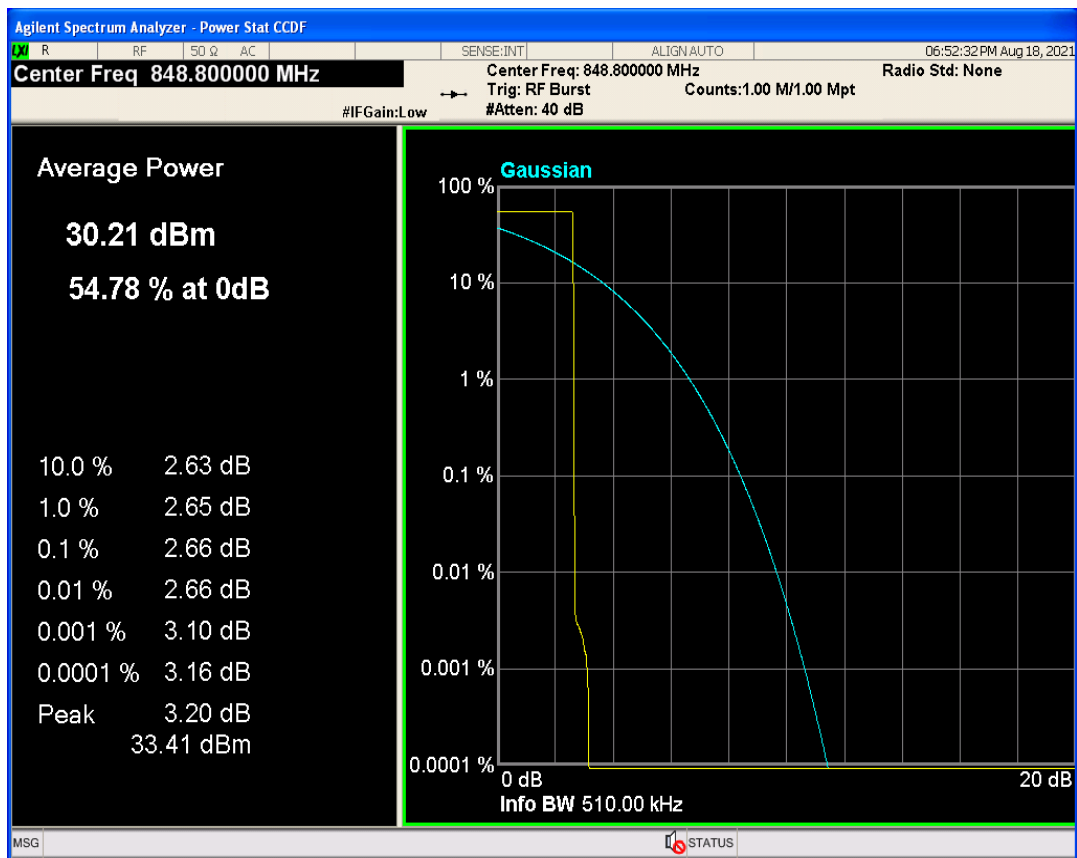
GPRS1900 Channel=810



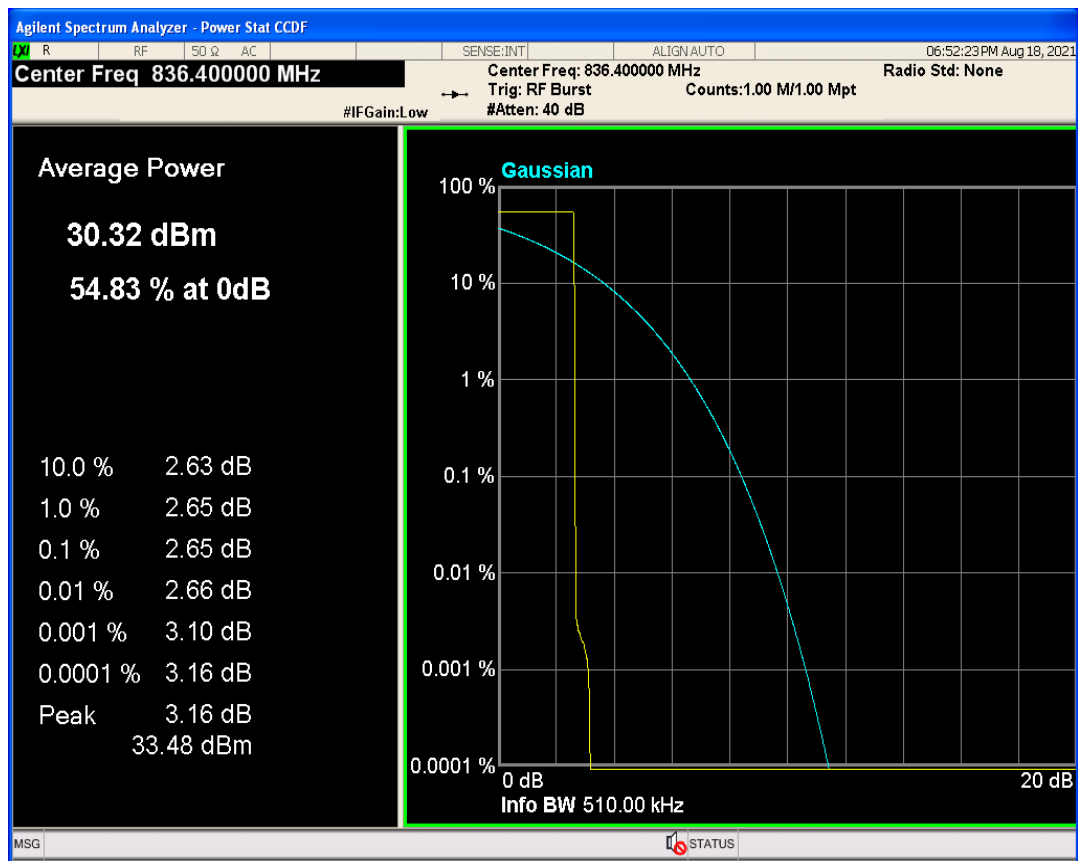
GPRS850 Channel=128



GPRS850 Channel=251



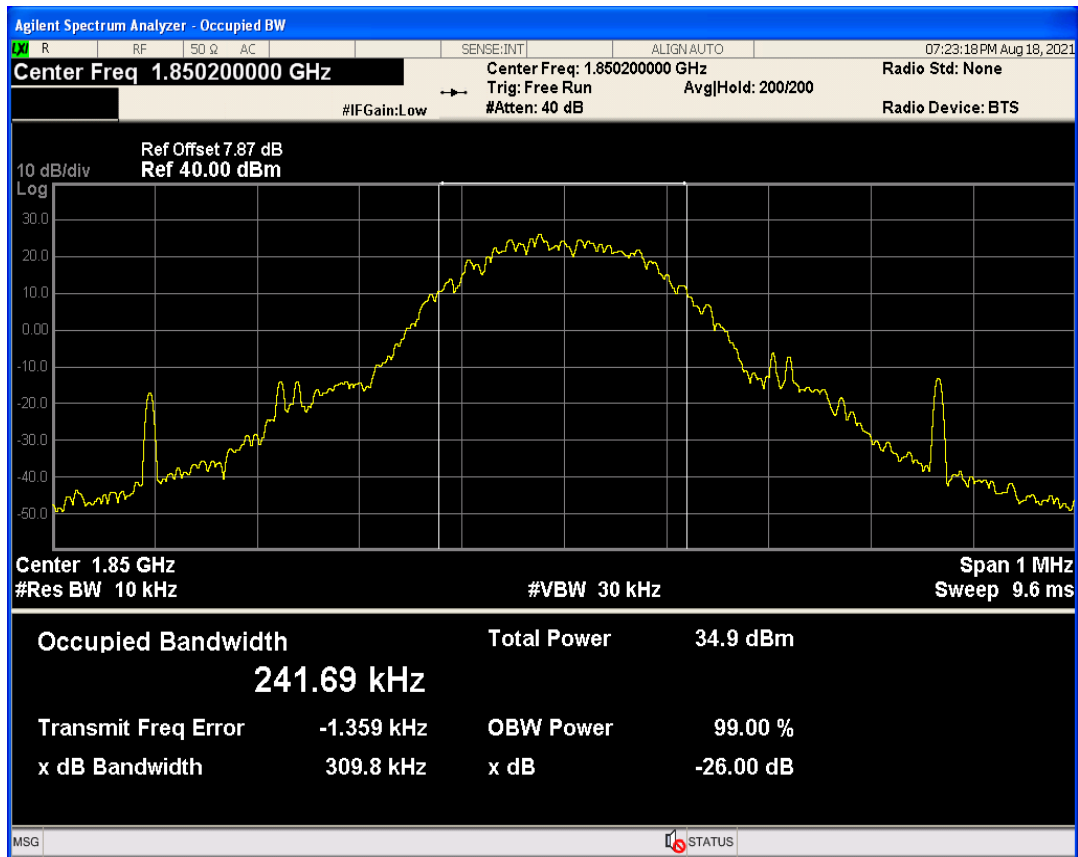
GPRS850 Channel=189



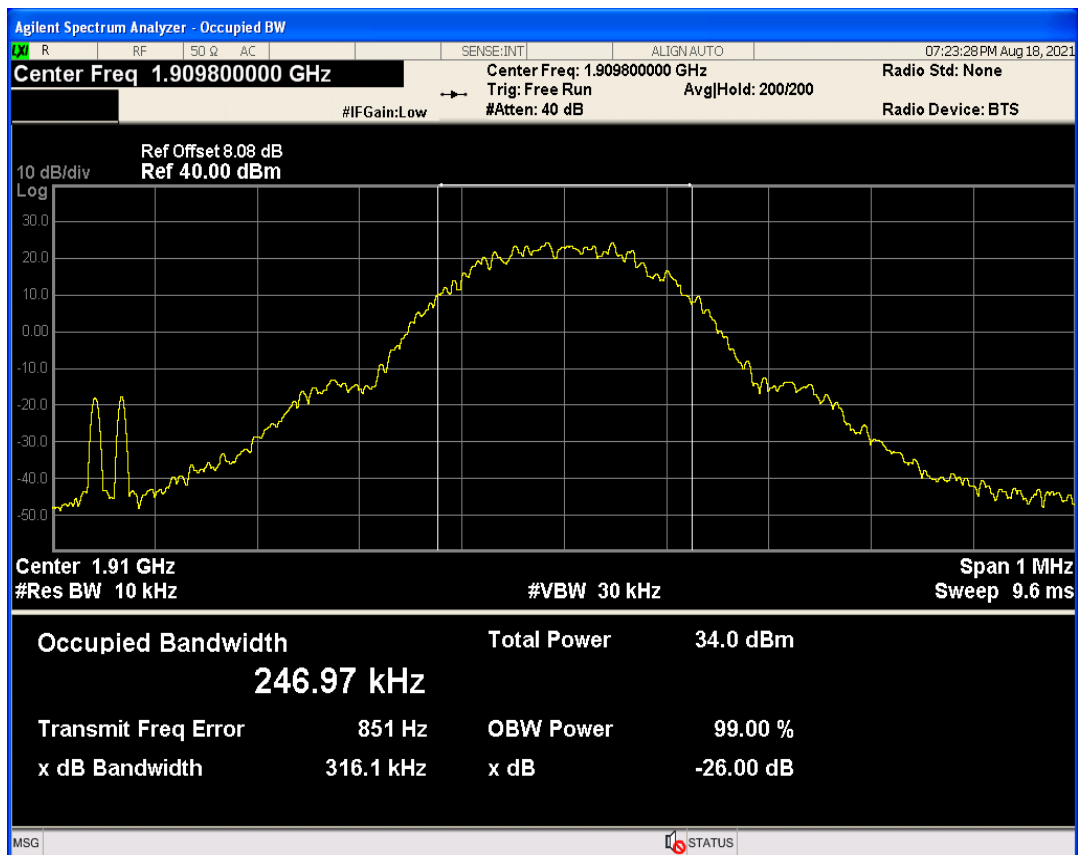
10 Occupied bandwidth

Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
GPRS1900	512	1850.2	241.690	309.798	PASS
GPRS1900	661	1880	246.640	309.993	PASS
GPRS1900	810	1909.8	246.966	316.058	PASS
GPRS850	128	824.2	243.924	315.907	PASS
GPRS850	189	836.4	249.648	317.228	PASS
GPRS850	251	848.8	244.540	320.379	PASS

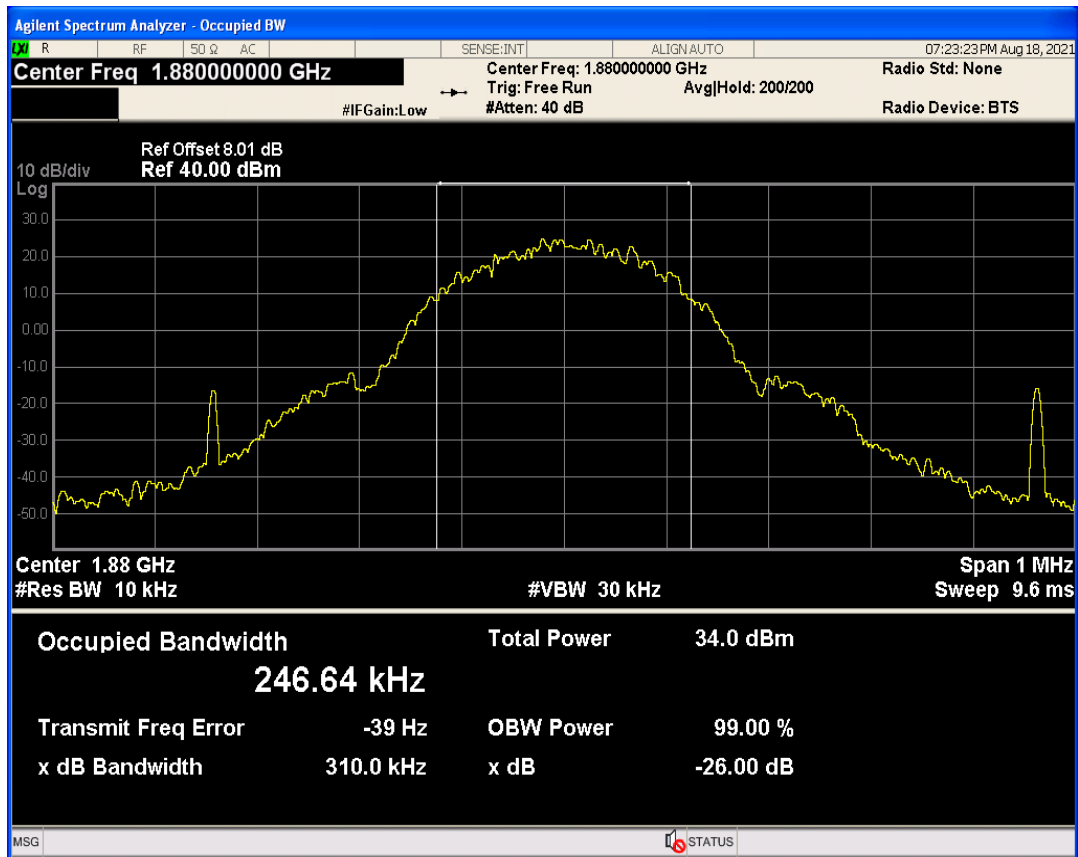
GPRS1900 Channel=512



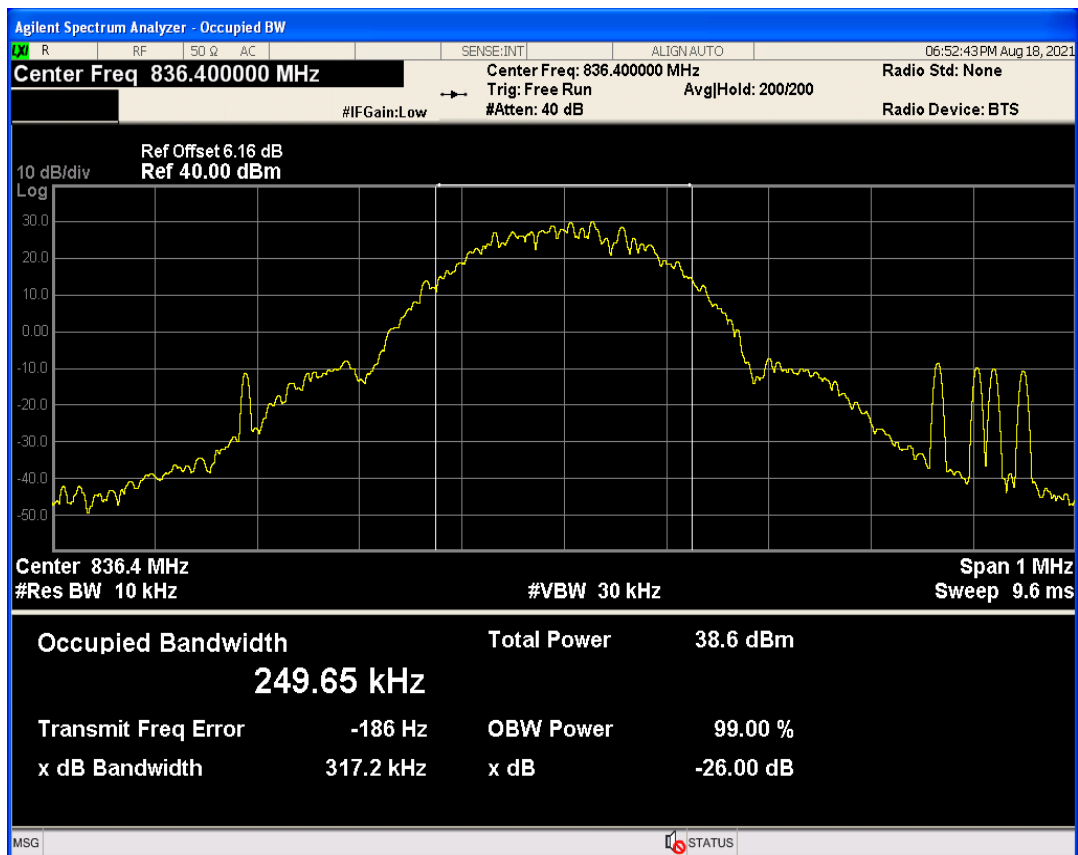
GPRS1900 Channel=810



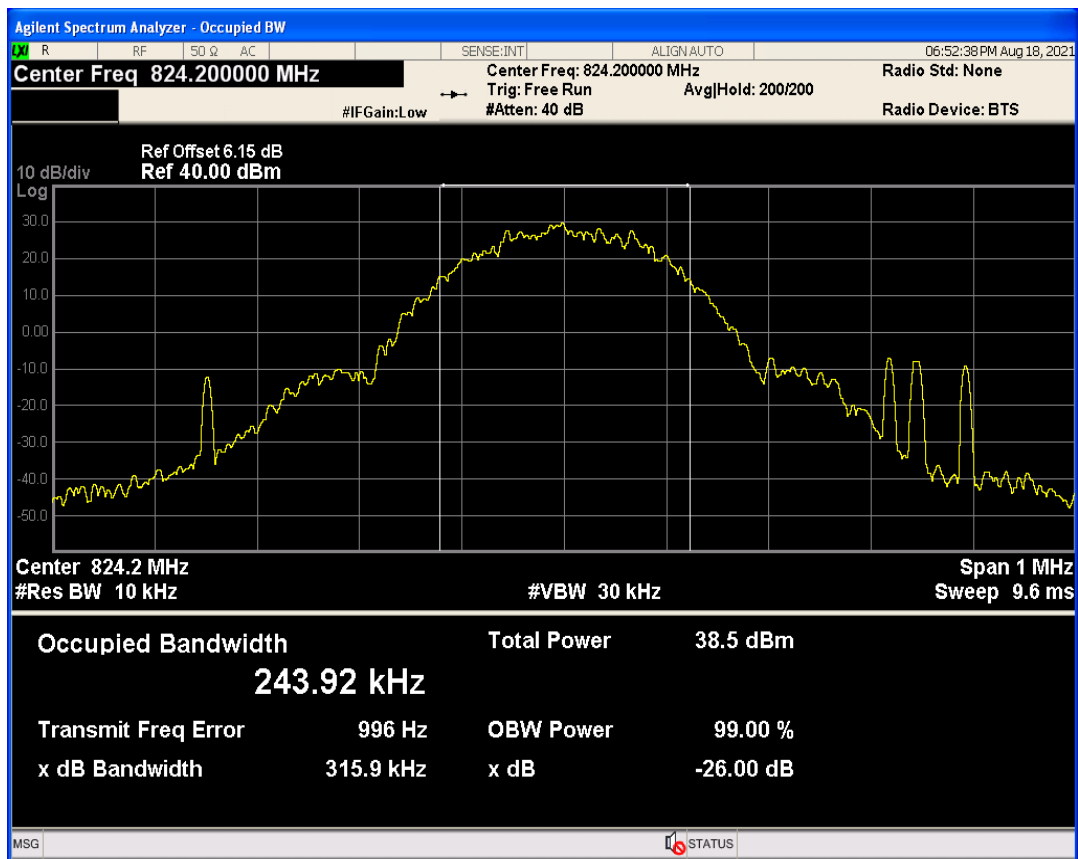
GPRS1900 Channel=661



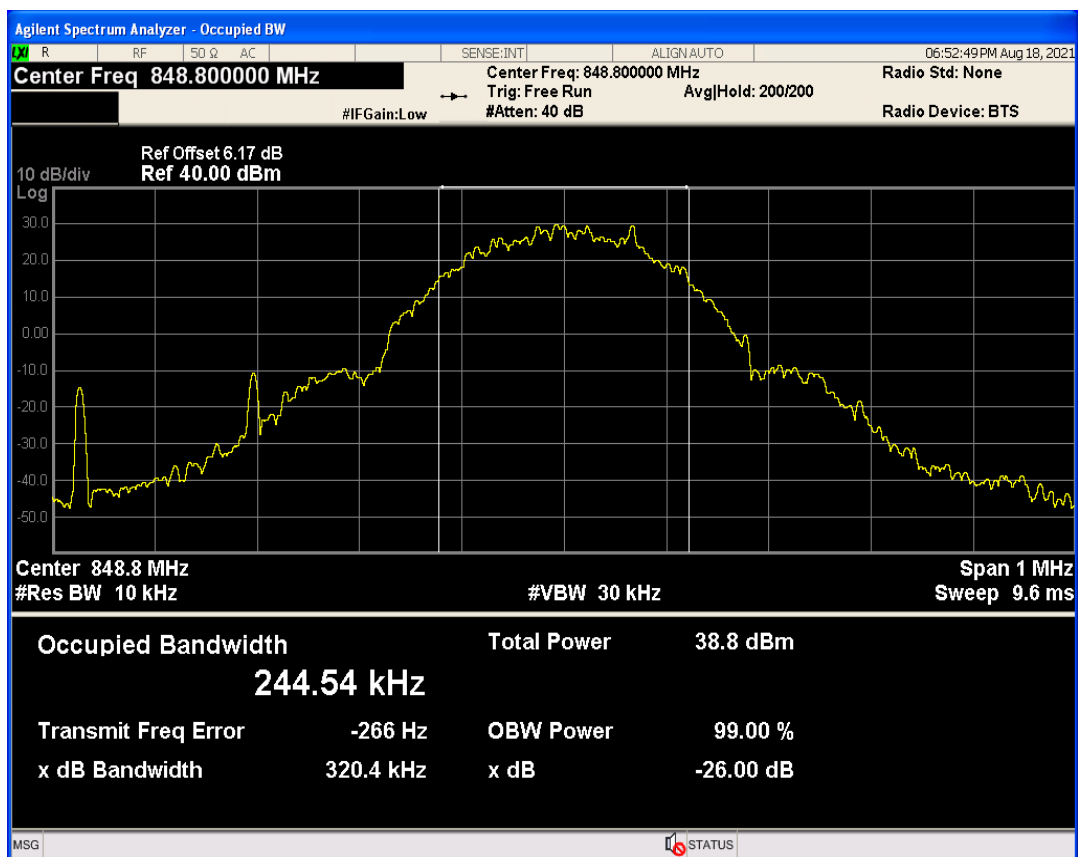
GPRS850 Channel=189



GPRS850 Channel=128



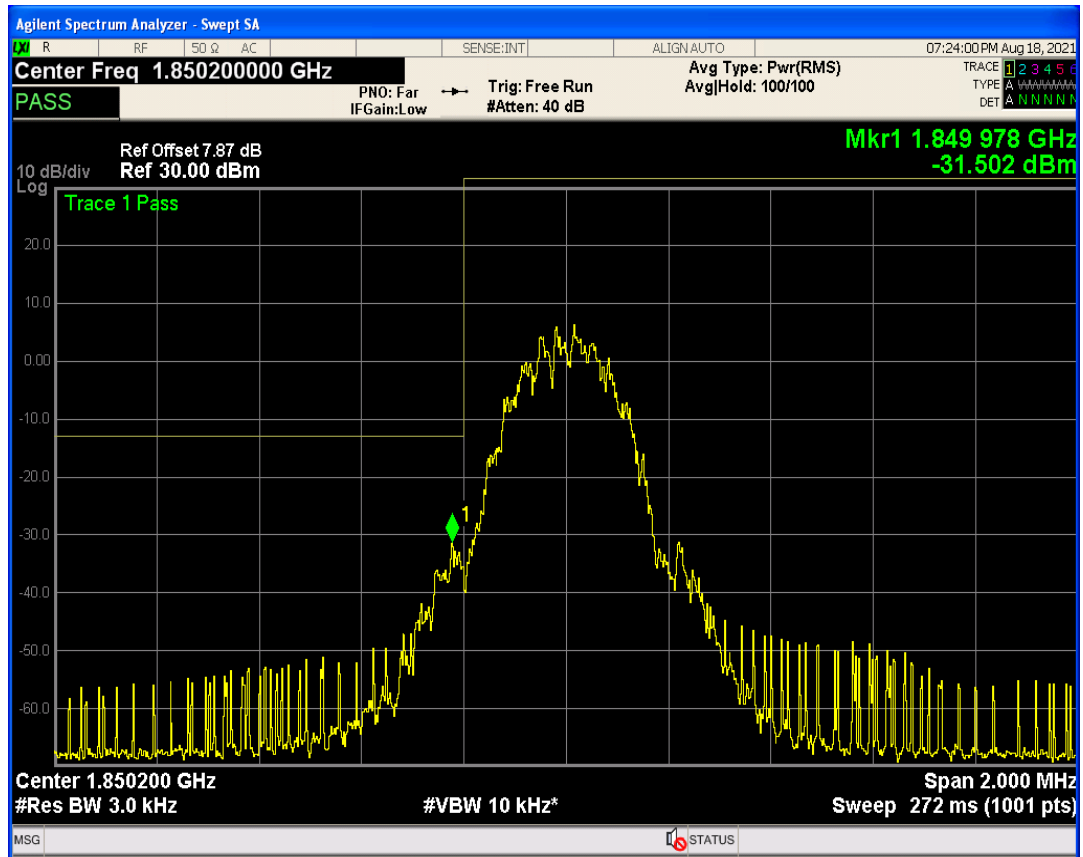
GPRS850 Channel=251



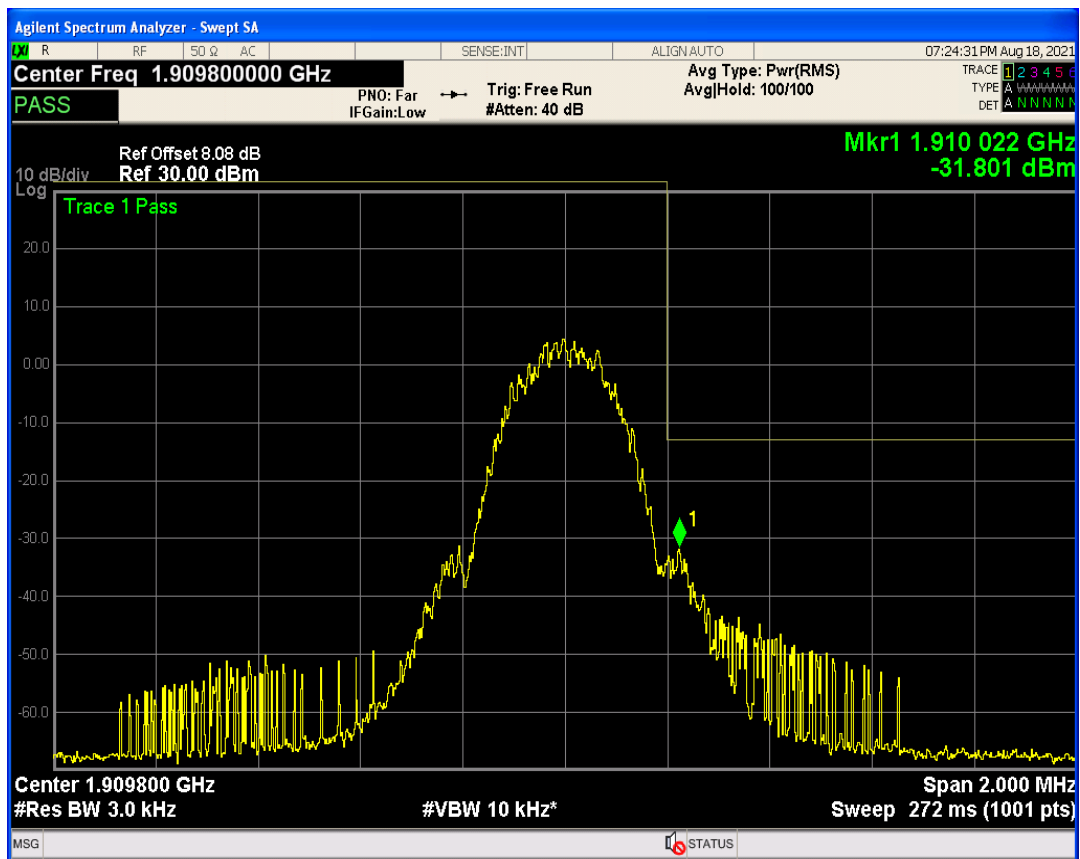
11 Band edge

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	1849.98	-31.50	-13	PASS
GPRS1900	810	1909.8	1910.02	-31.80	-13	PASS
GPRS850	128	824.2	823.98	-27.55	-13	PASS
GPRS850	251	848.8	849.02	-28.65	-13	PASS

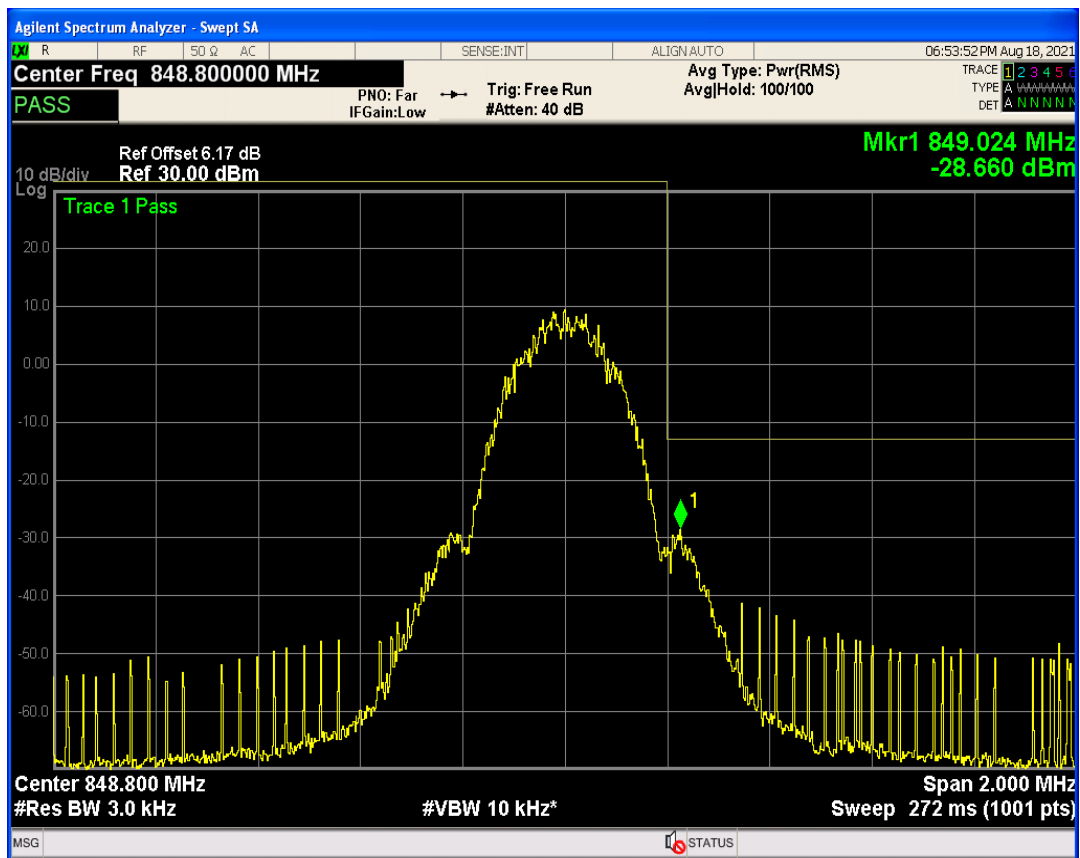
GPRS1900 Channel=512



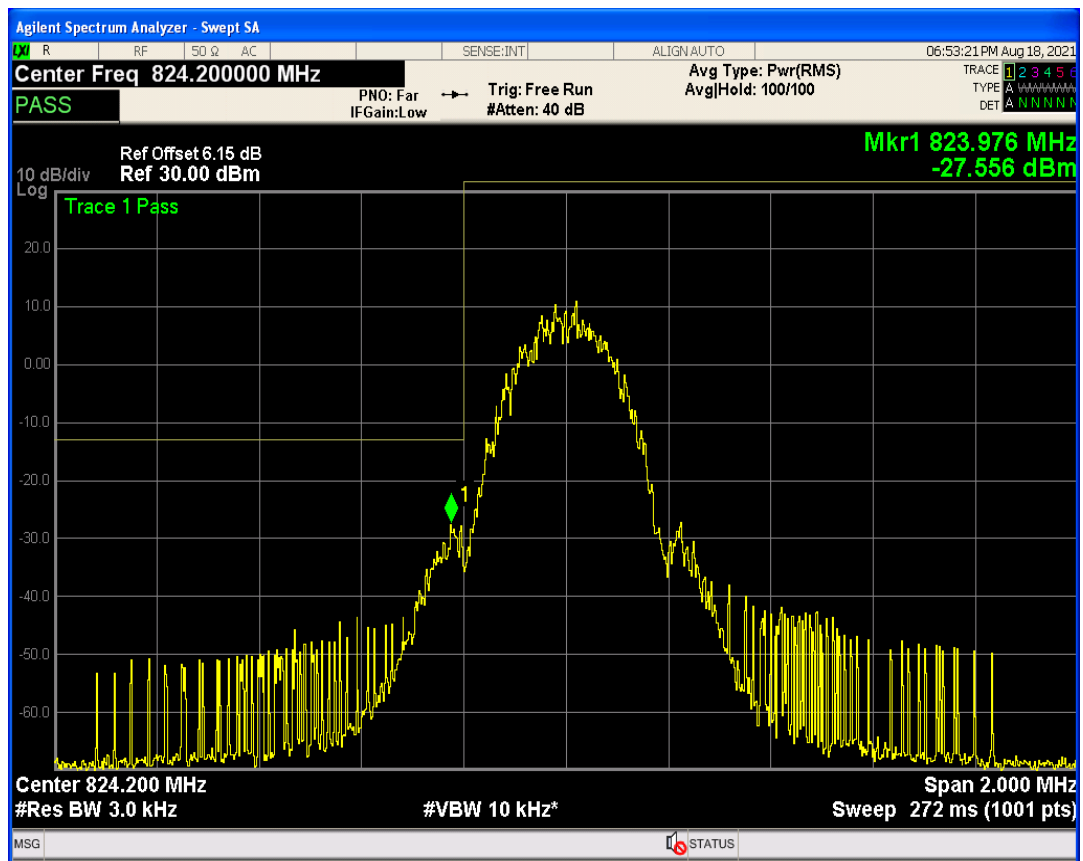
GPRS1900 Channel=810



GPRS850 Channel=251



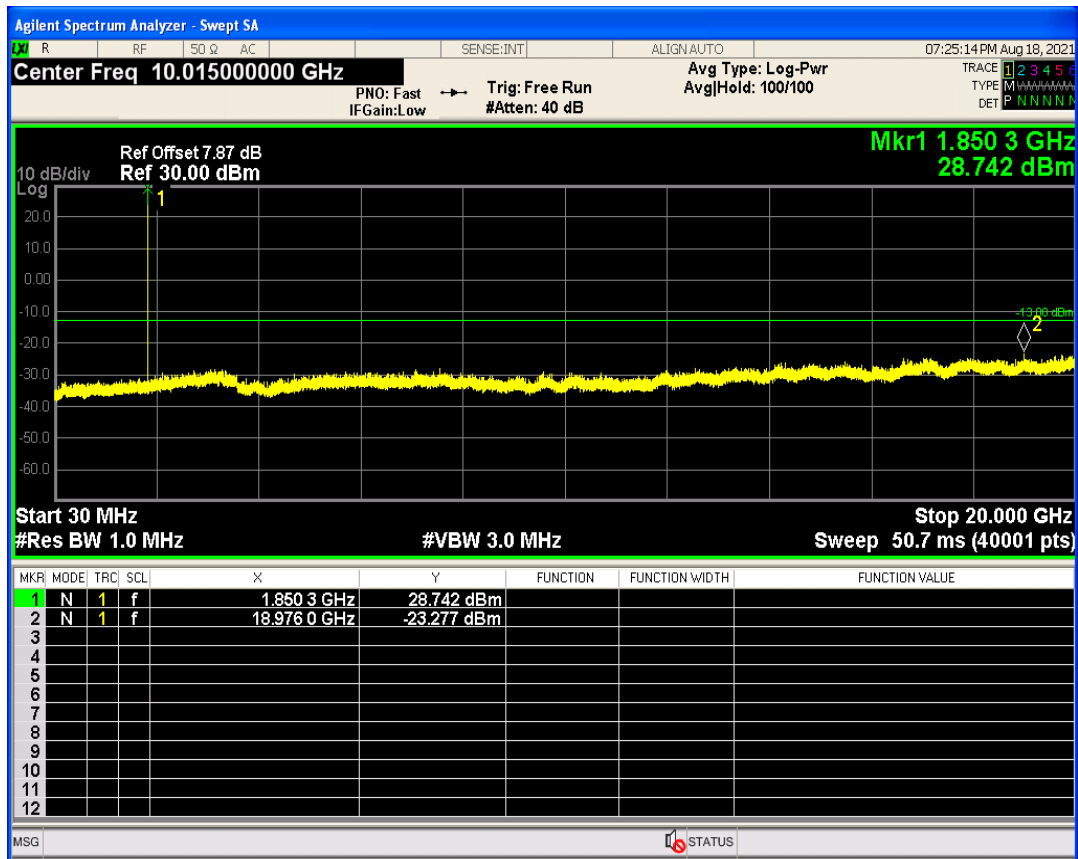
GPRS850 Channel=128



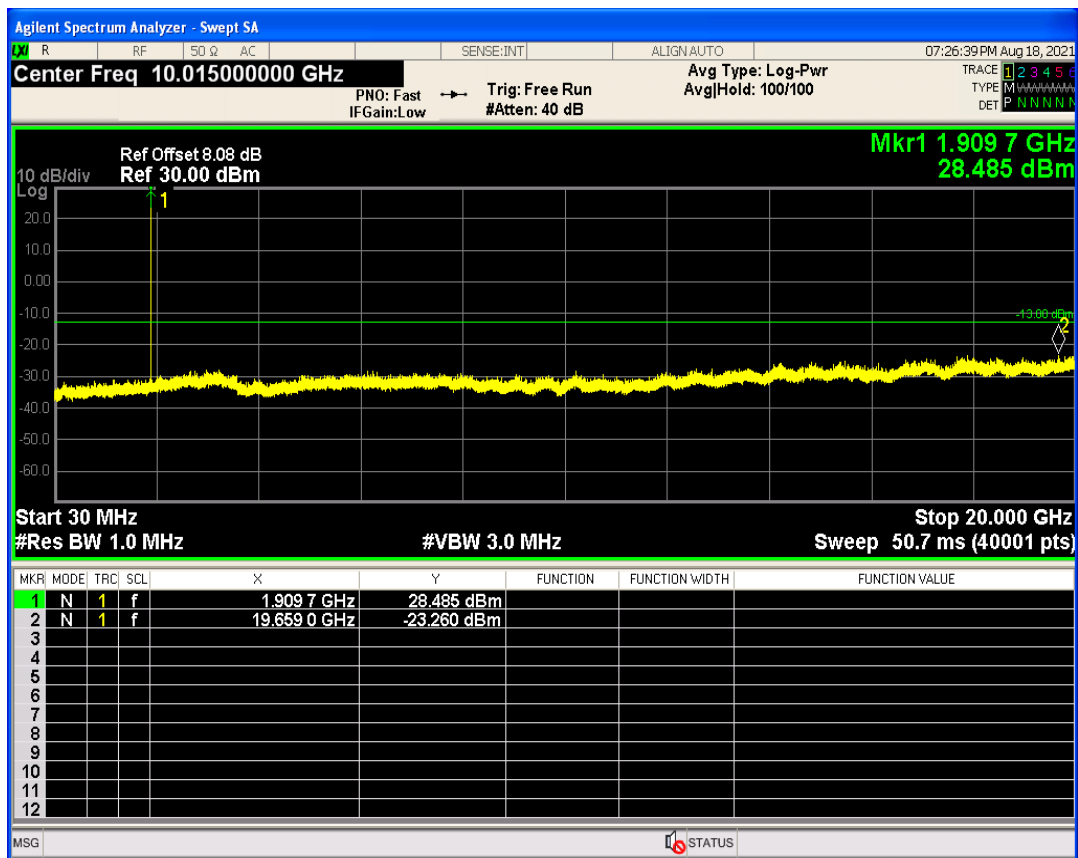
12 Out-of-band emissions

Band	Channel	Frequency (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1850.2	18976.04	-23.27	-13	PASS
GPRS1900	661	1880	19960.06	-23.56	-13	PASS
GPRS1900	810	1909.8	19659.01	-23.26	-13	PASS
GPRS850	128	824.2	1648.63	-29.89	-13	PASS
GPRS850	189	836.4	3228.13	-29.80	-13	PASS
GPRS850	251	848.8	3267.26	-28.70	-13	PASS

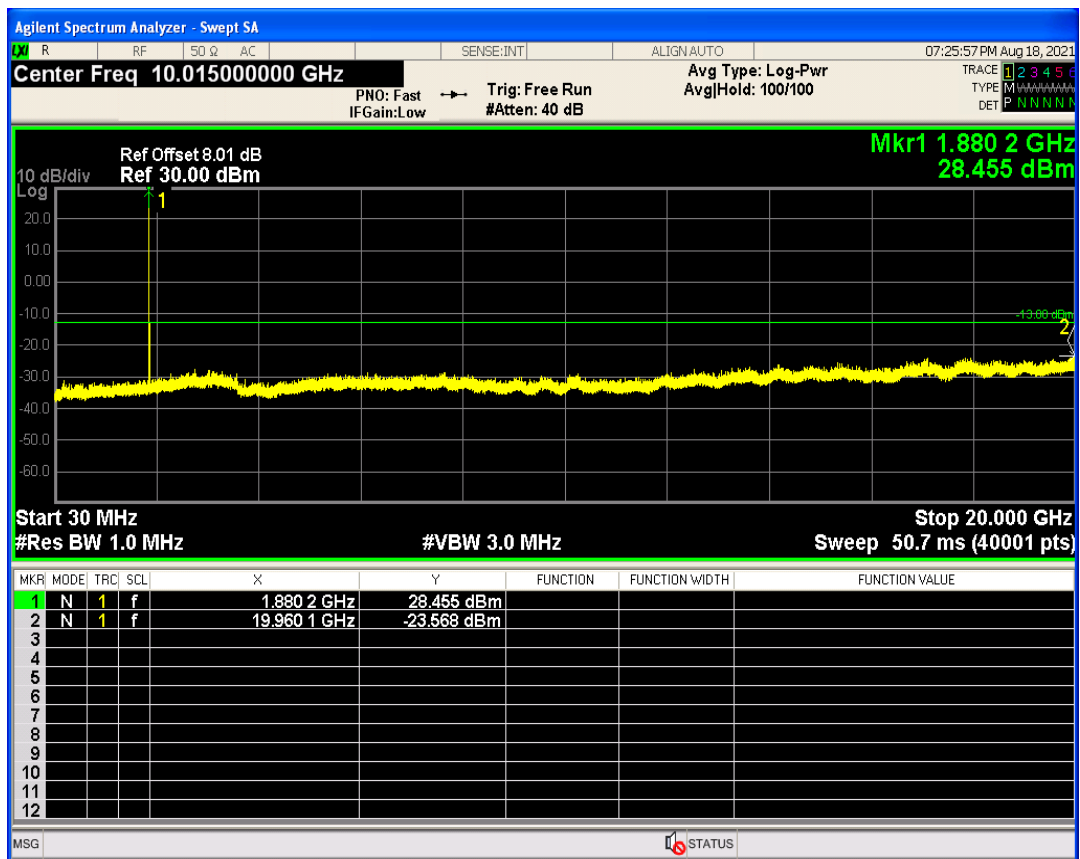
GPRS1900 Channel=512



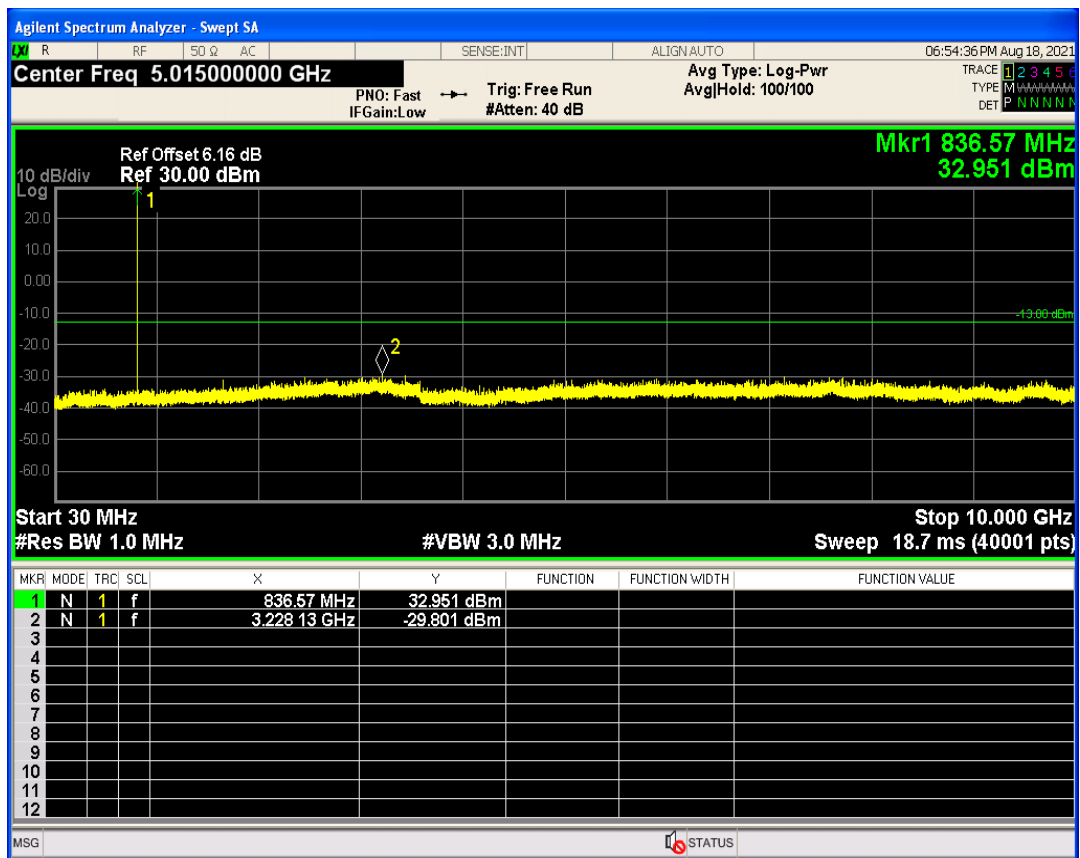
GPRS1900 Channel=810



GPRS1900 Channel=661



GPRS850 Channel=189



GPRS850 Channel=128

