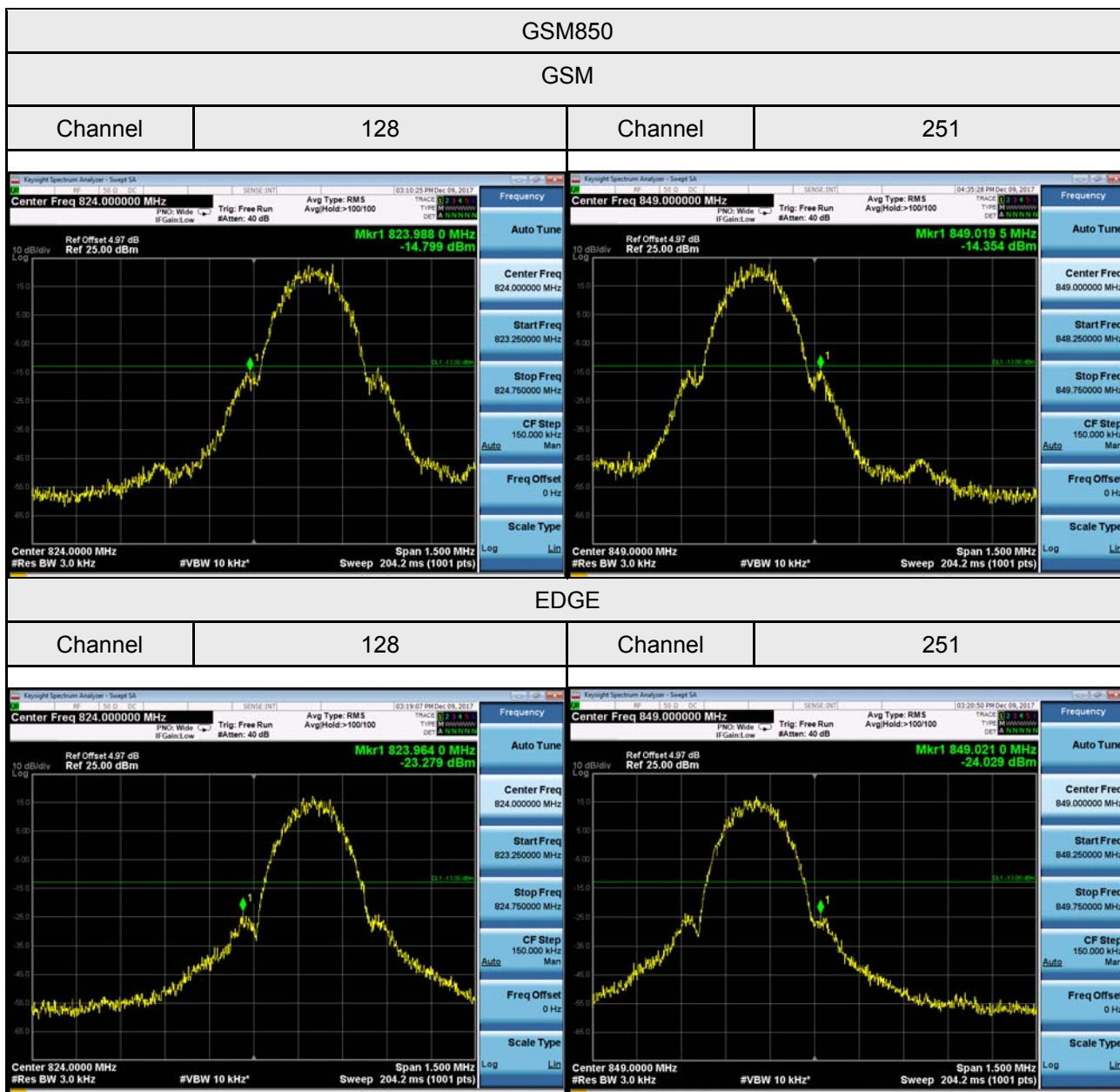
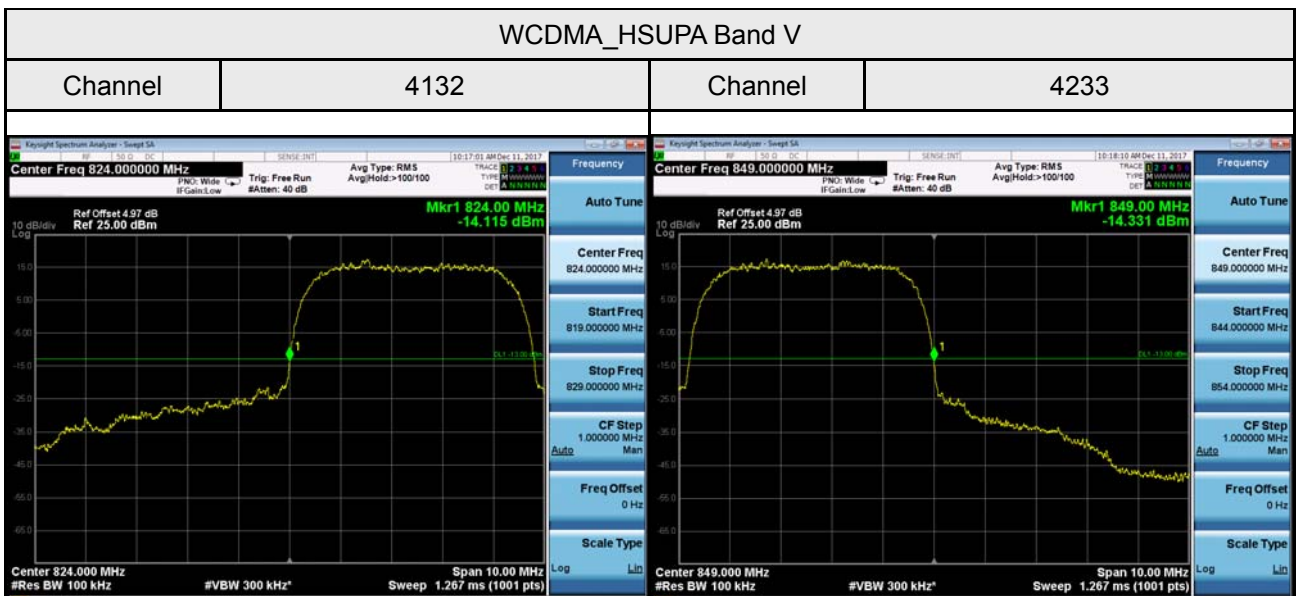
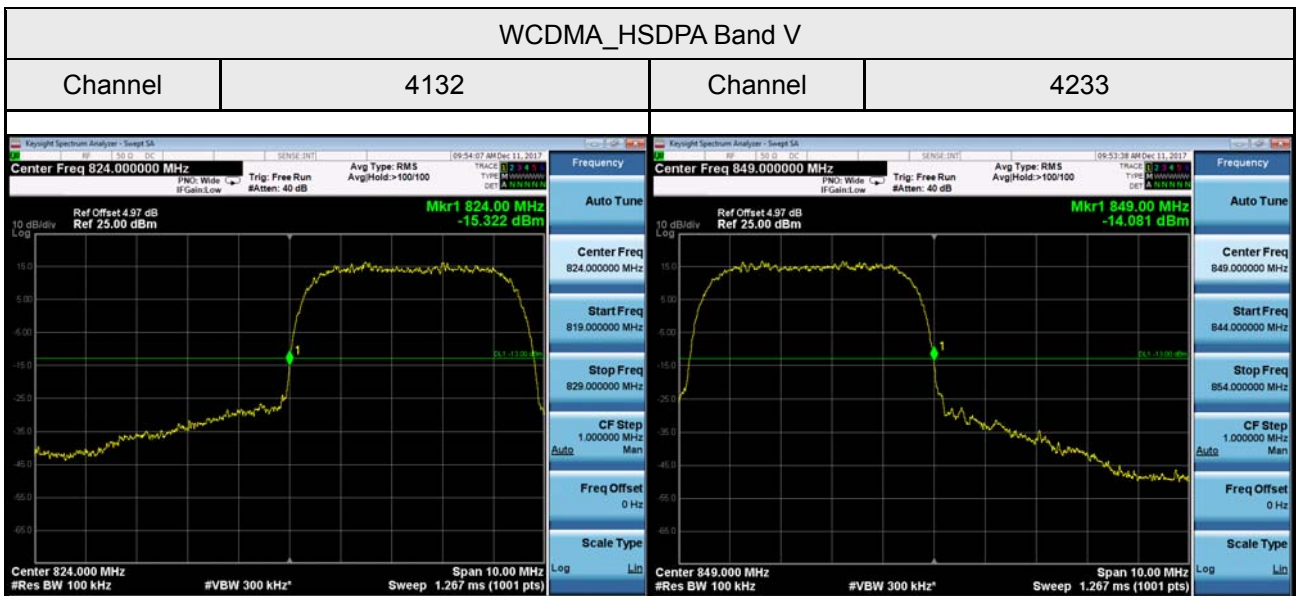
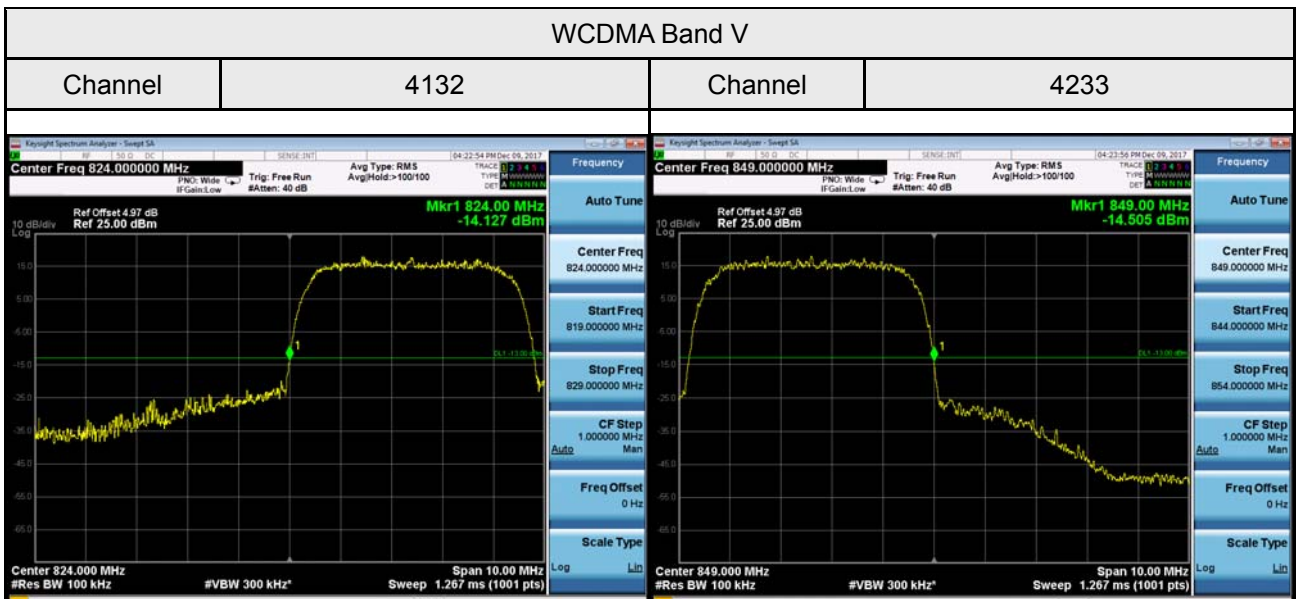


APPENDIX E - BAND EDGE





LTE Band 5_1.4M

1RB0

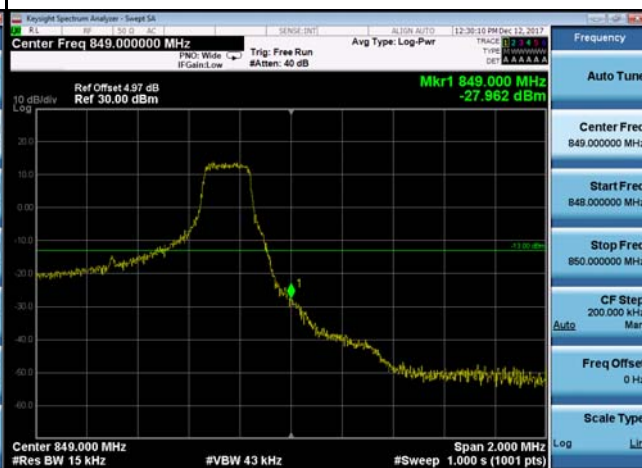
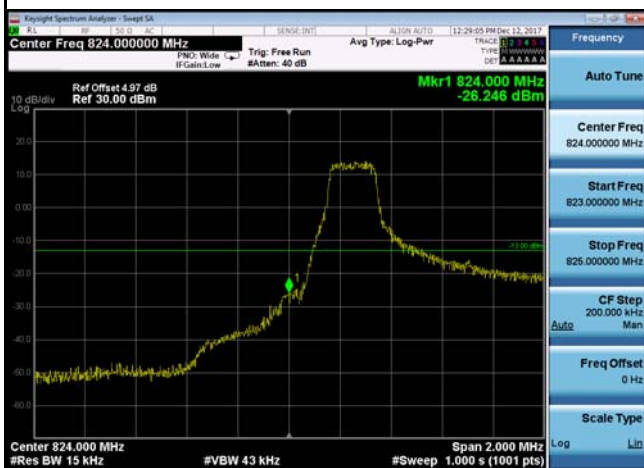
1RB5

Channel

20407

Channel

20643



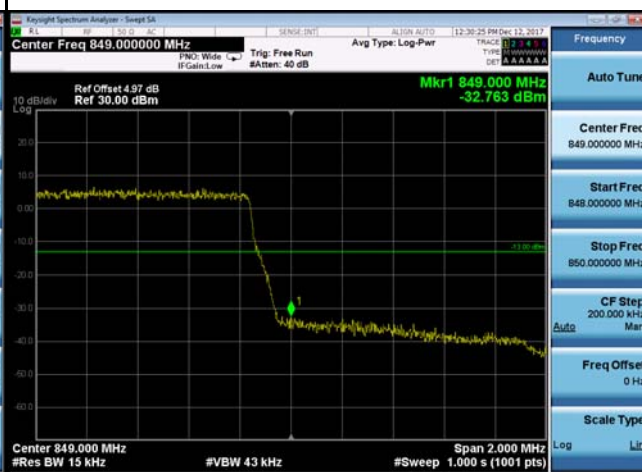
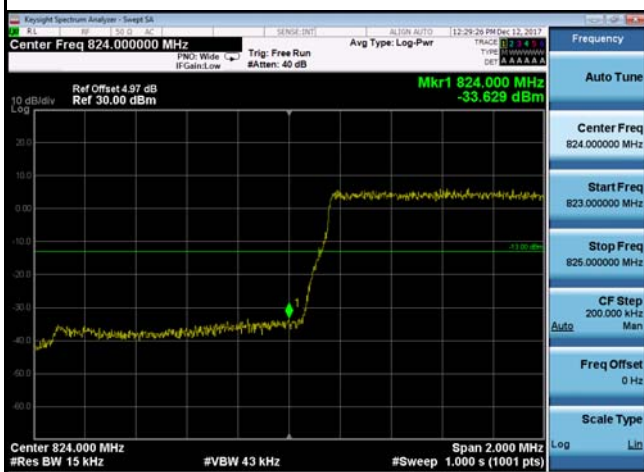
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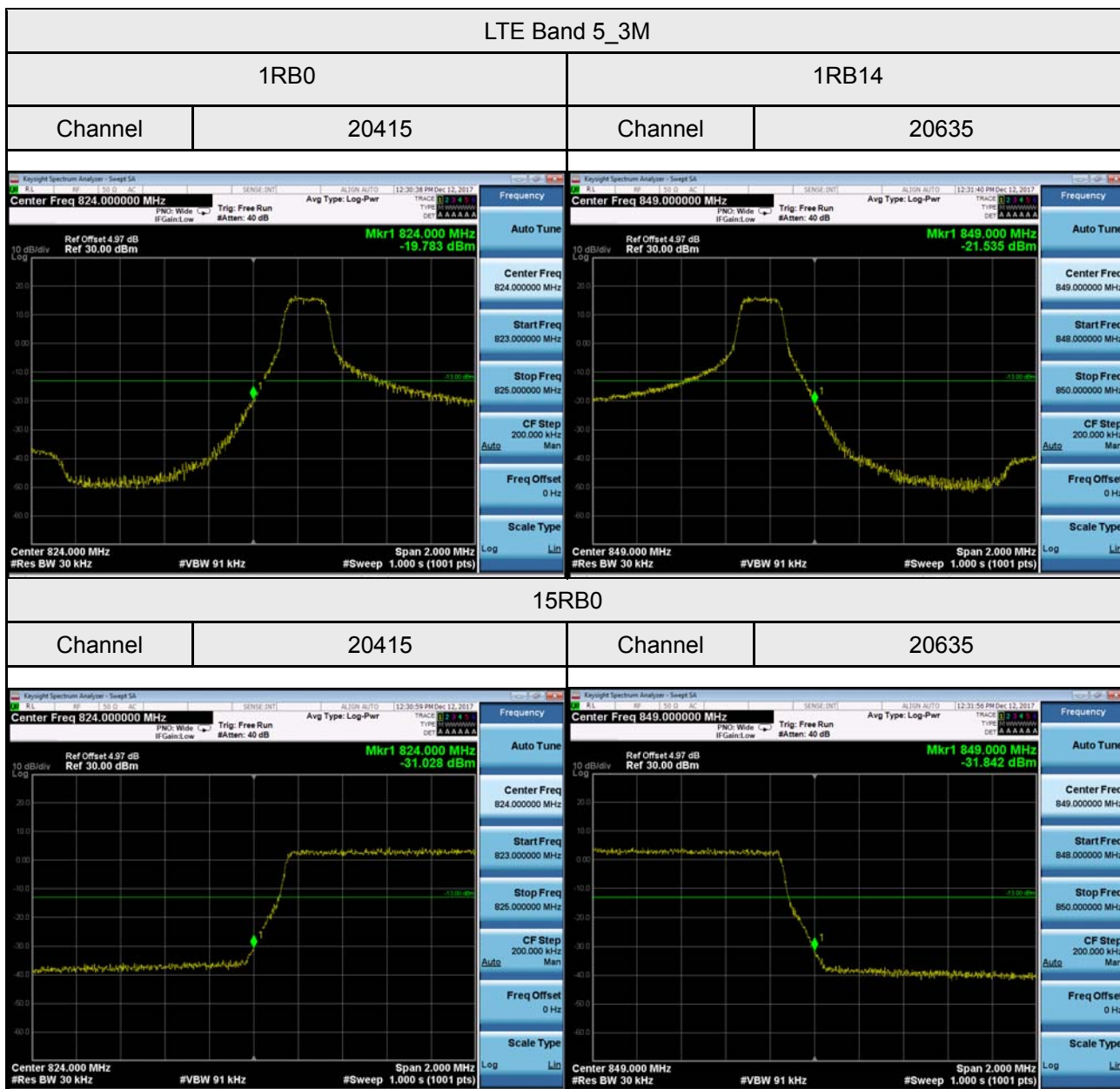
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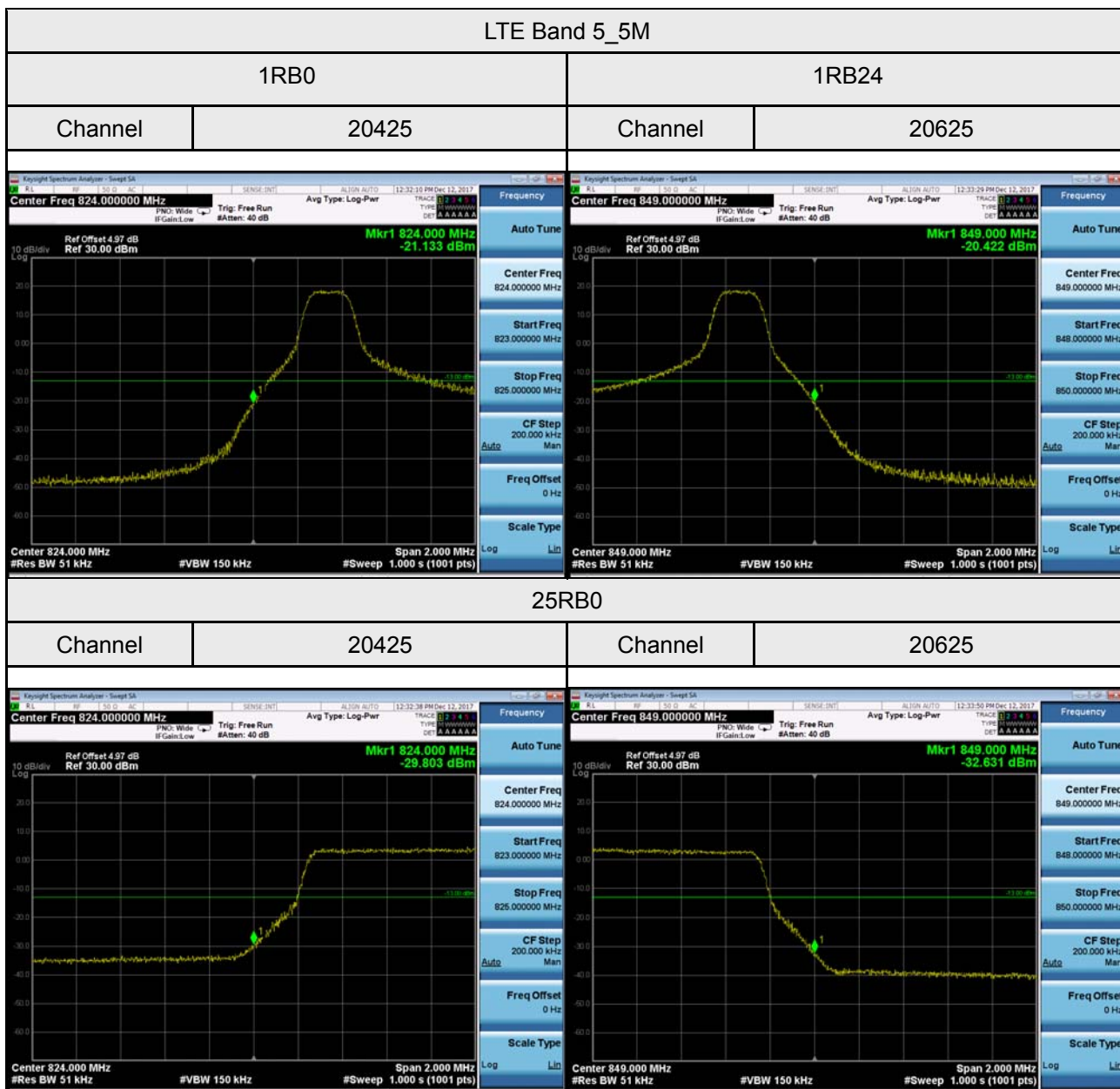
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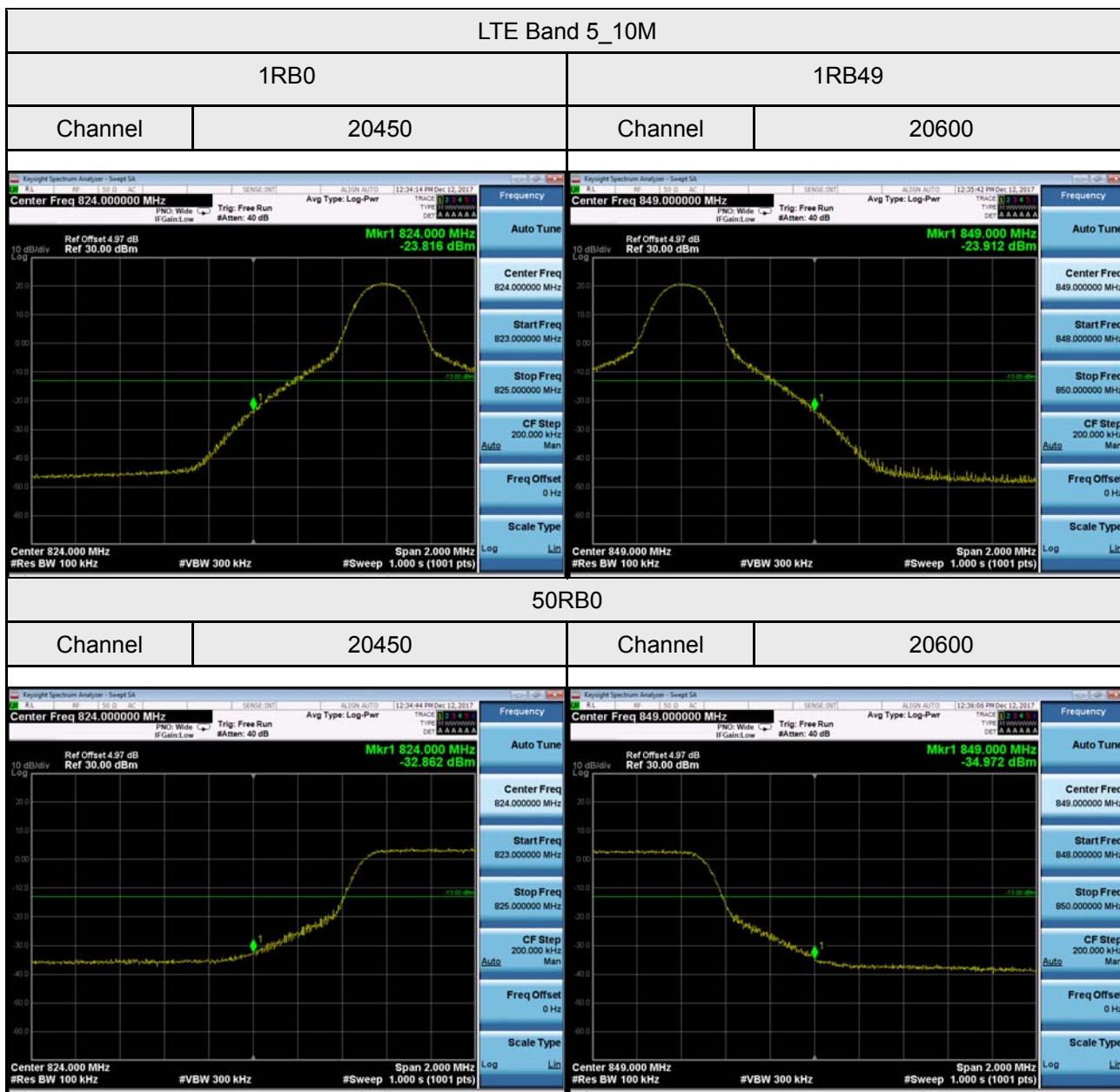
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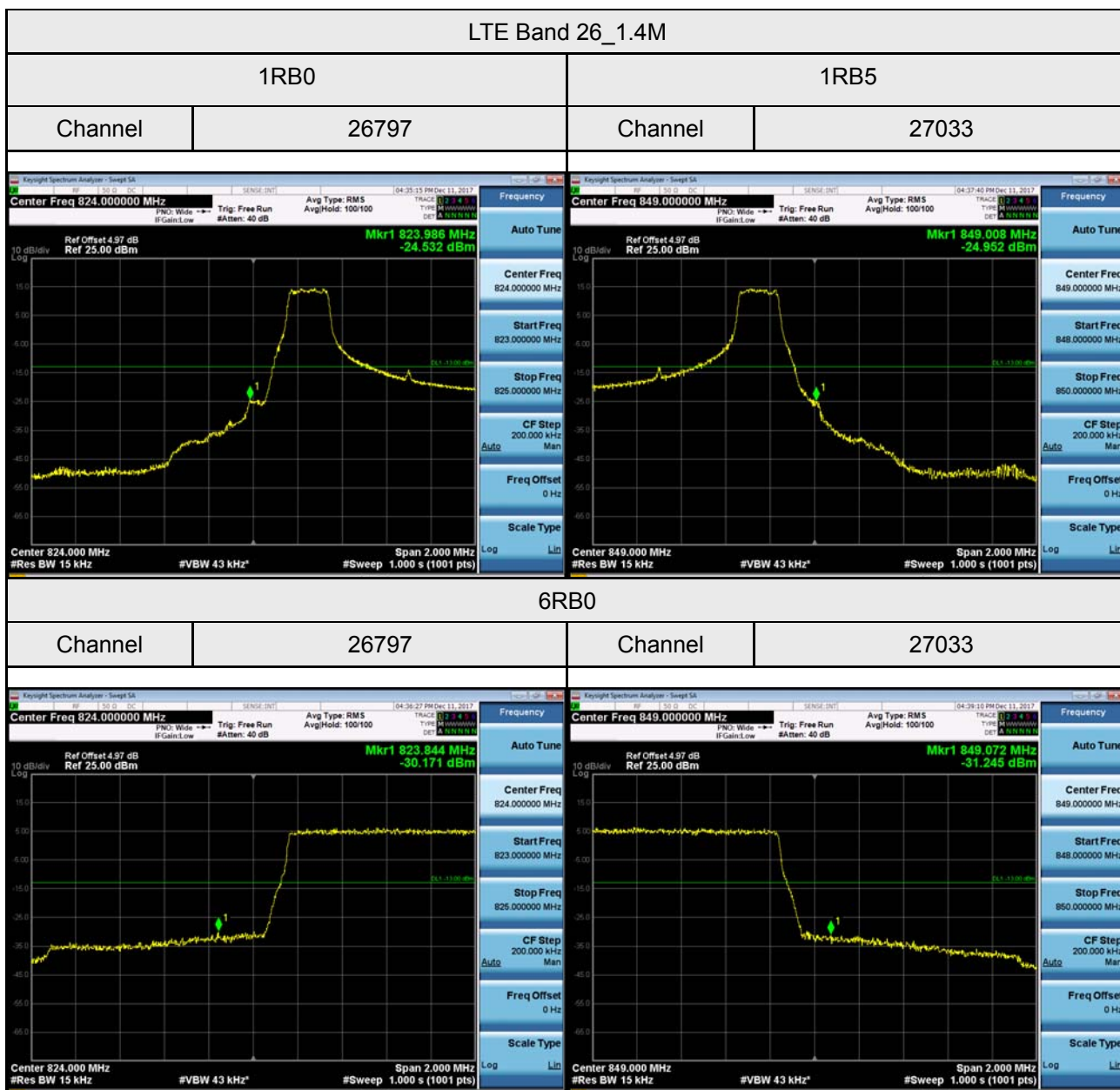
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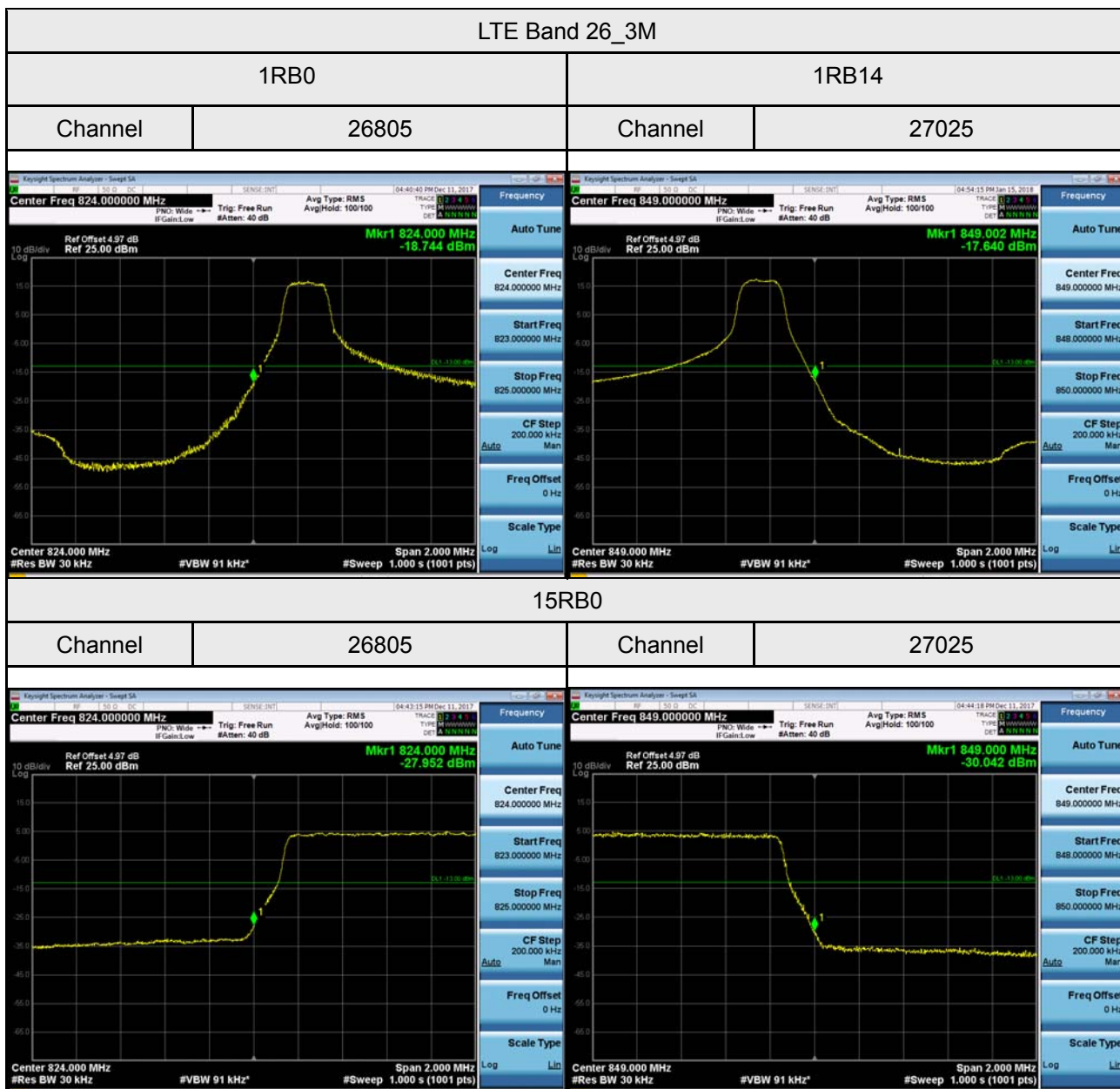


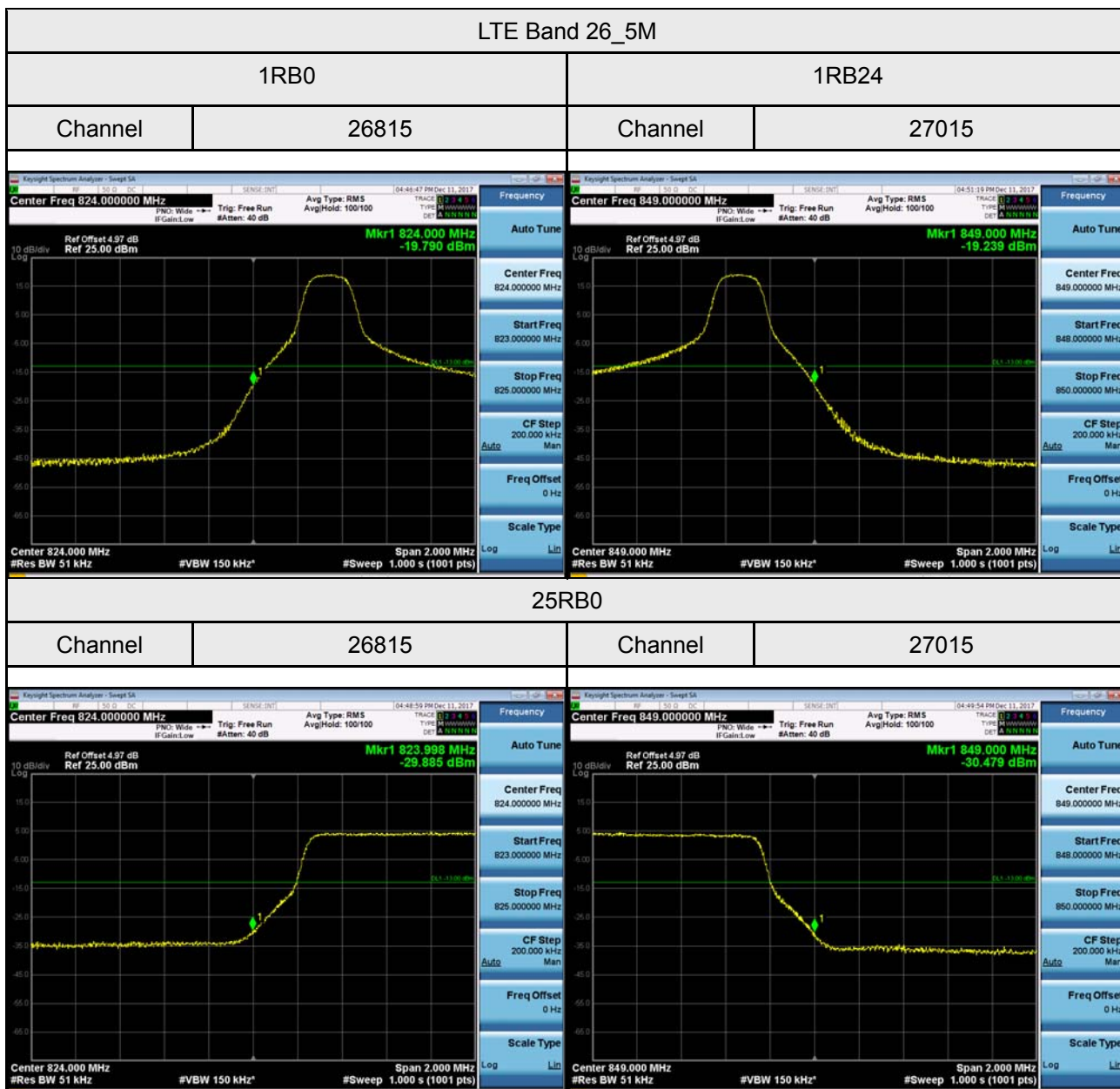


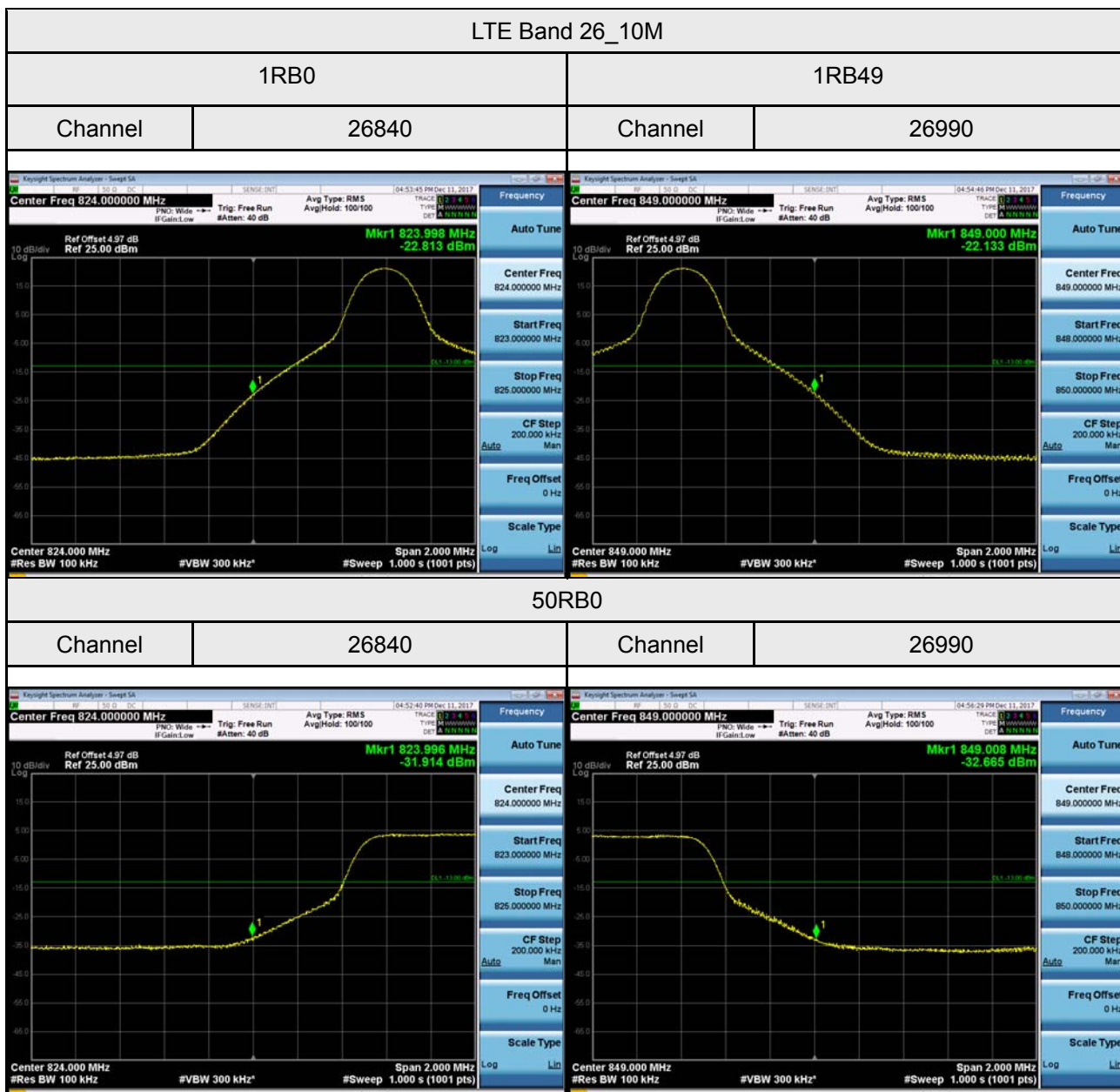


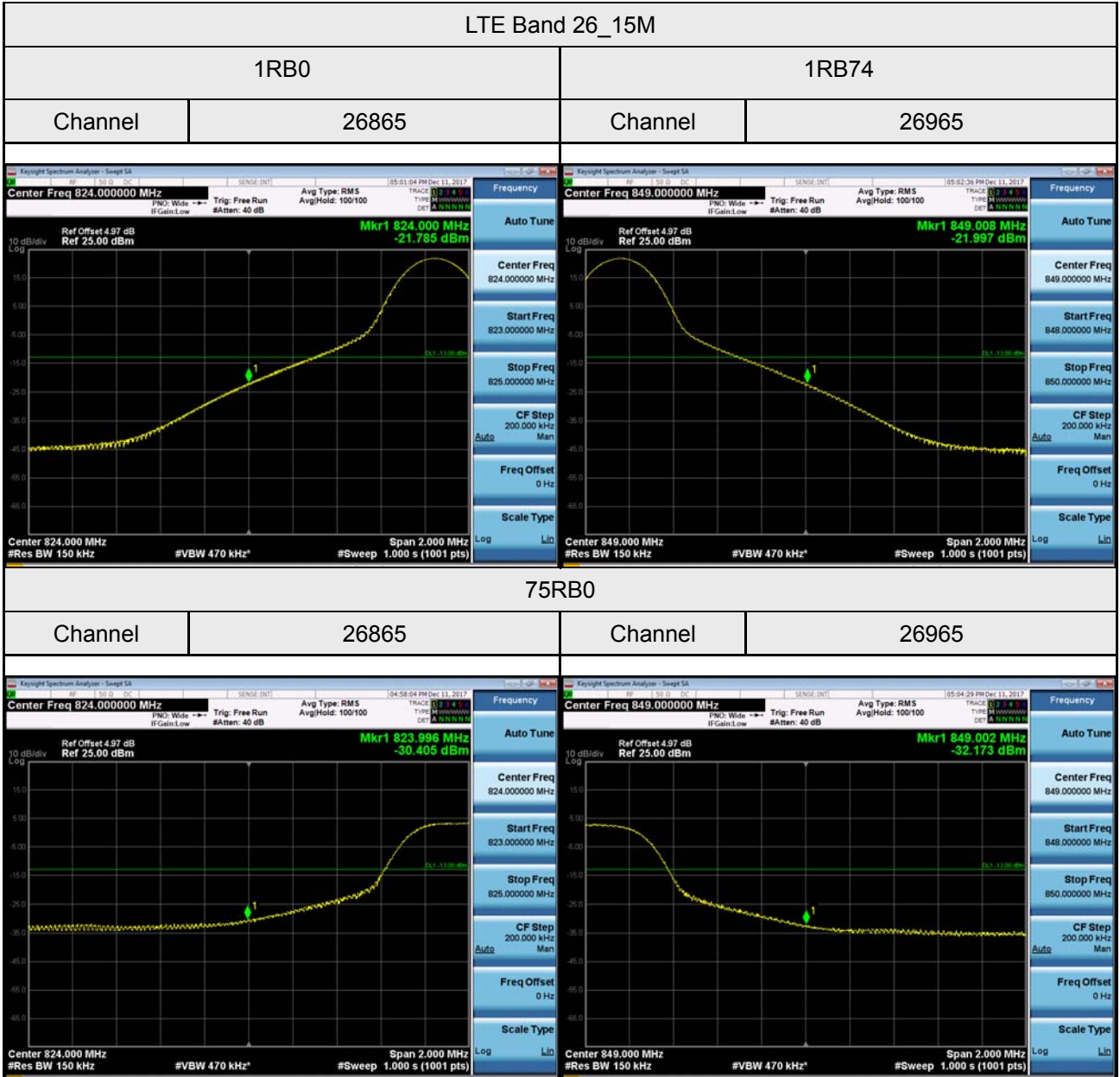












APPENDIX F - PEAK TO AVERAGE RATIO

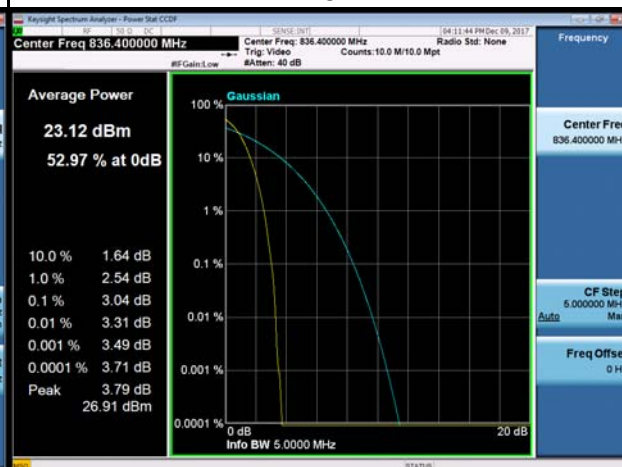
GSM 850 Spectrum Plot



WCDMA Band V Spectrum Plot

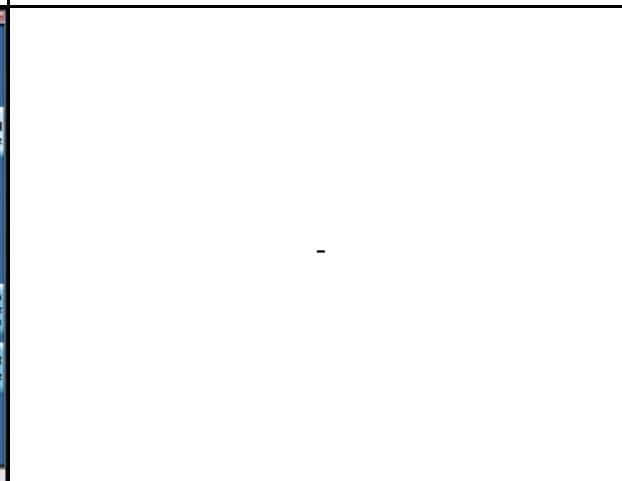
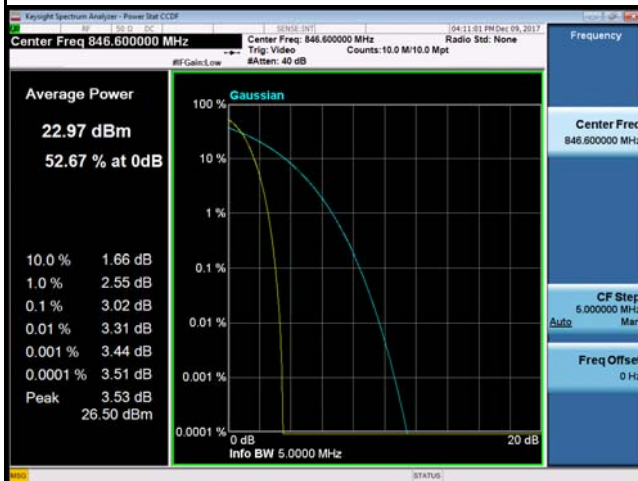
4132

4182



4233

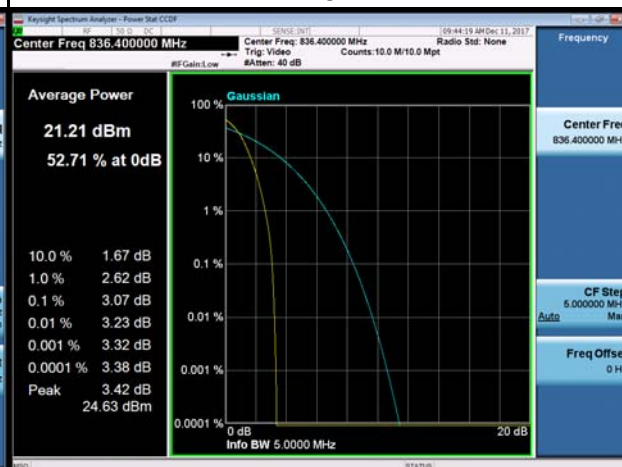
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WCDMA_HSDPA Band V Spectrum Plot

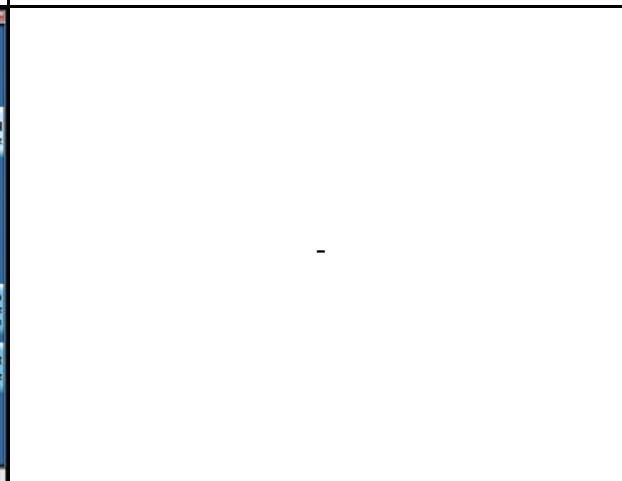
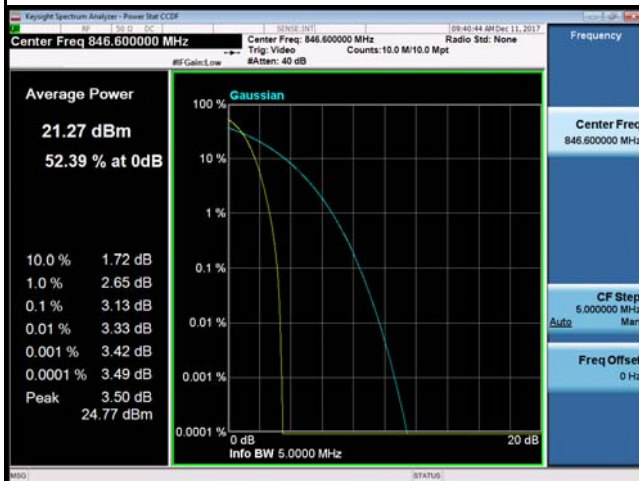
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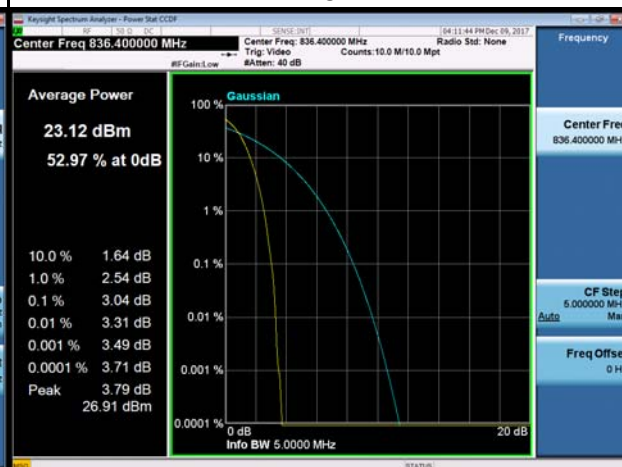
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WCDMA_HSUPA Band V Spectrum Plot

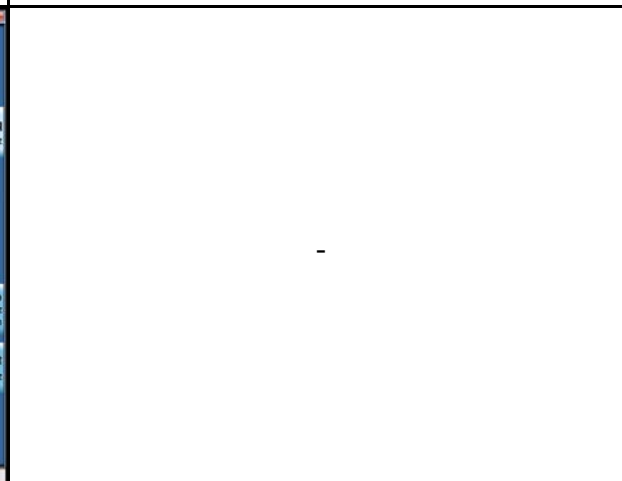
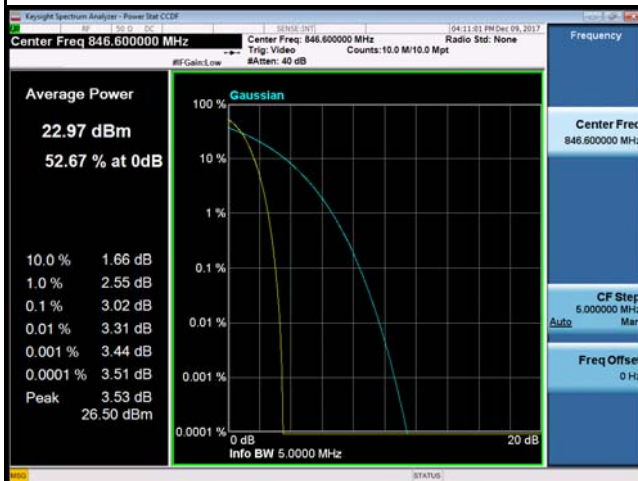
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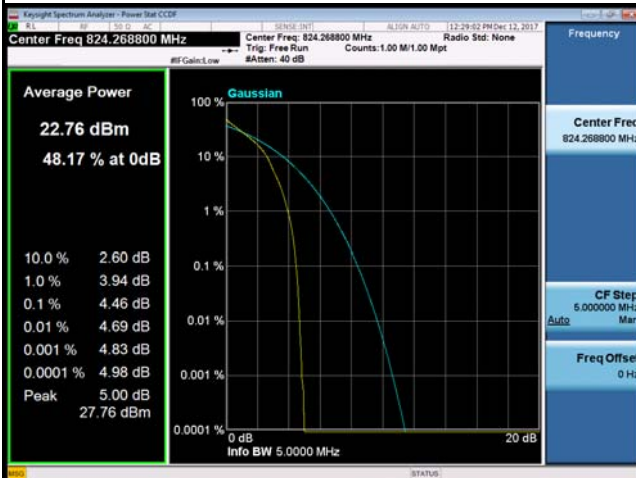
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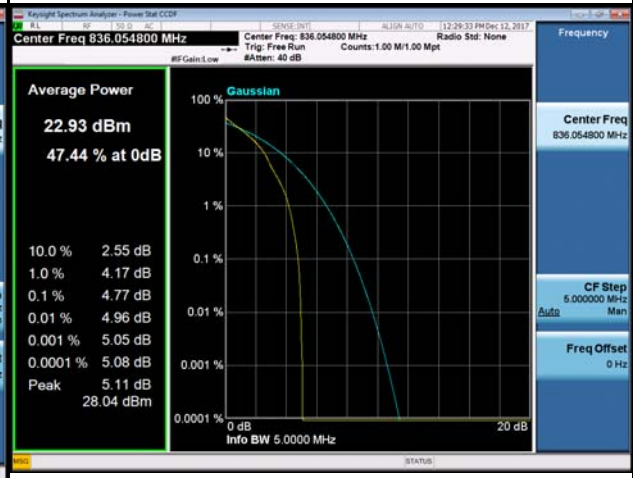


LTE Band 5 Spectrum Plot_1.4M

QPSK-20407



QPSK-20525



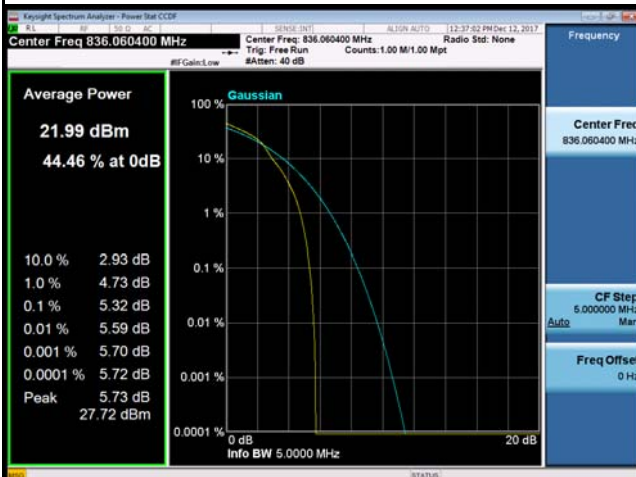
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16QAM-20407



16QAM-20525

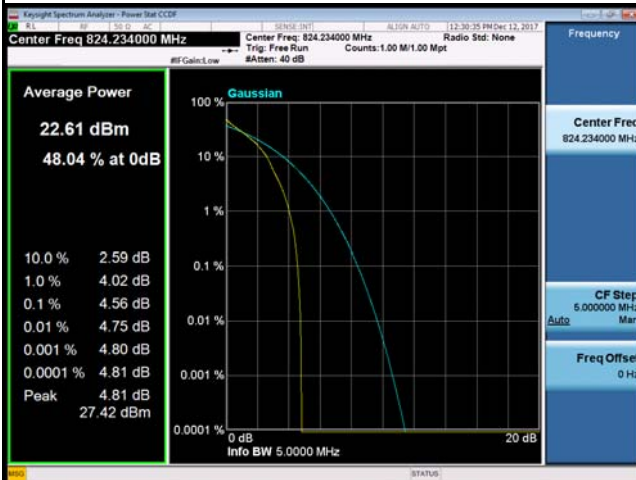


16QAM-20643

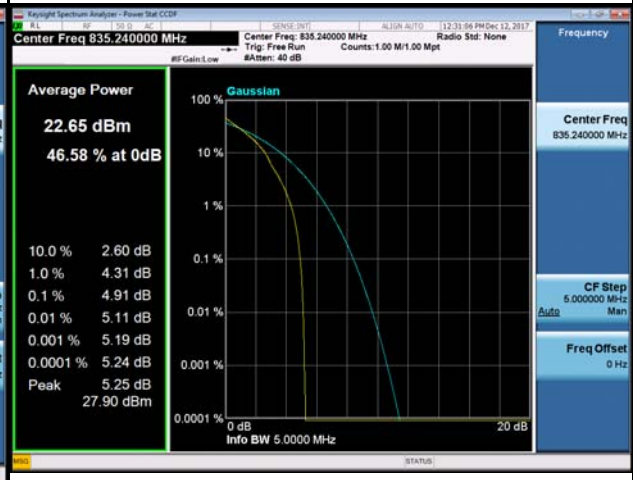


LTE Band 5 Spectrum Plot_3M

QPSK-20415



QPSK-20525



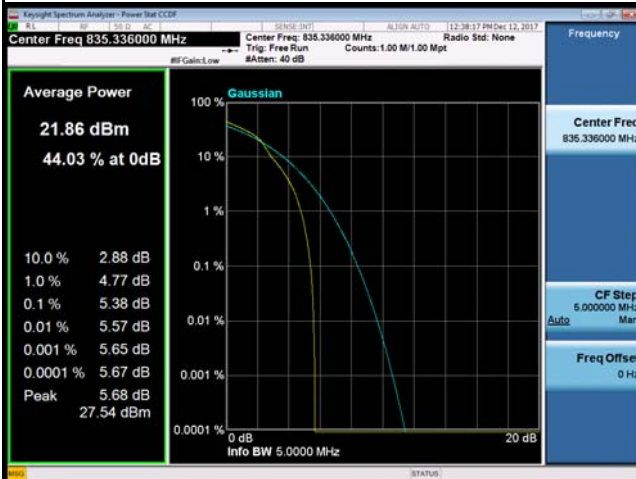
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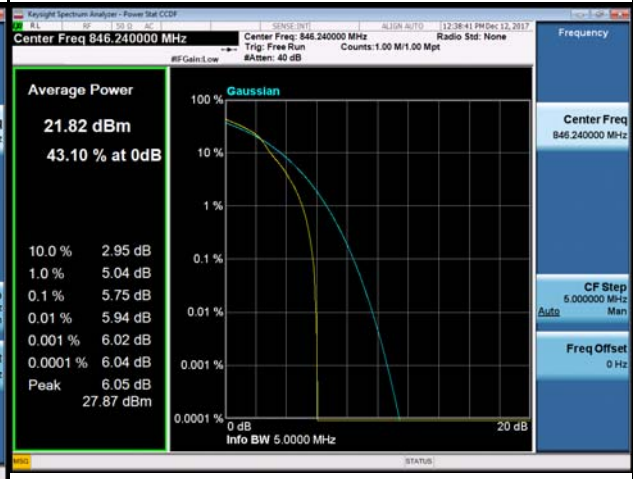
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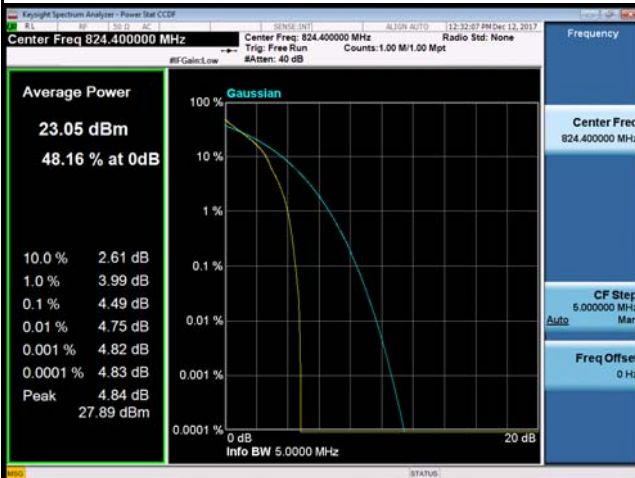


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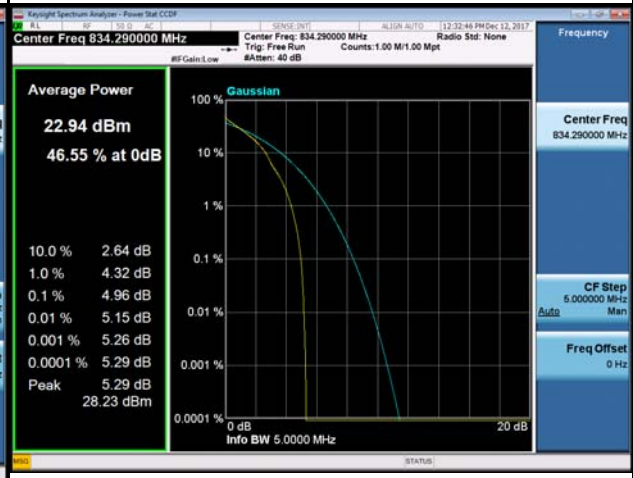


LTE Band 5 Spectrum Plot_5M

QPSK-20425



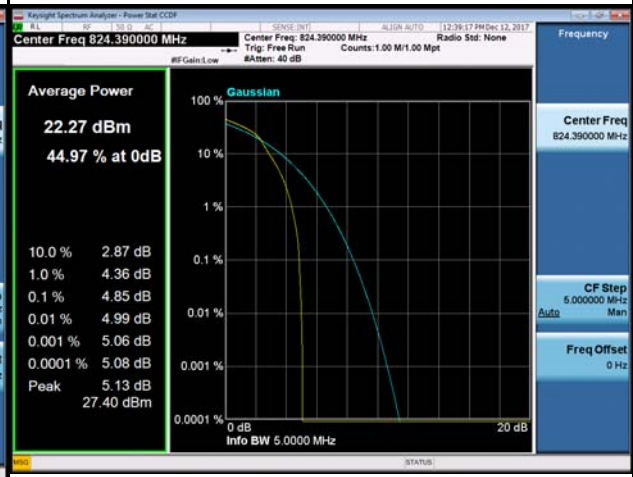
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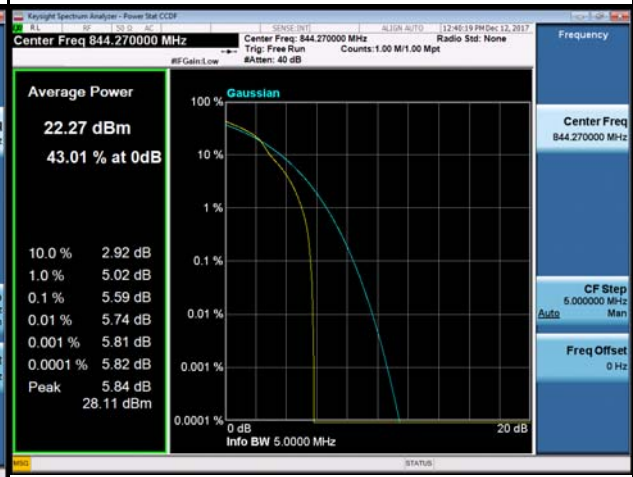
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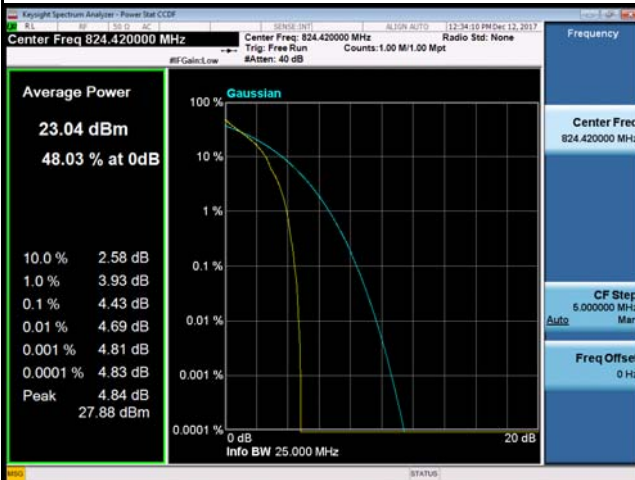


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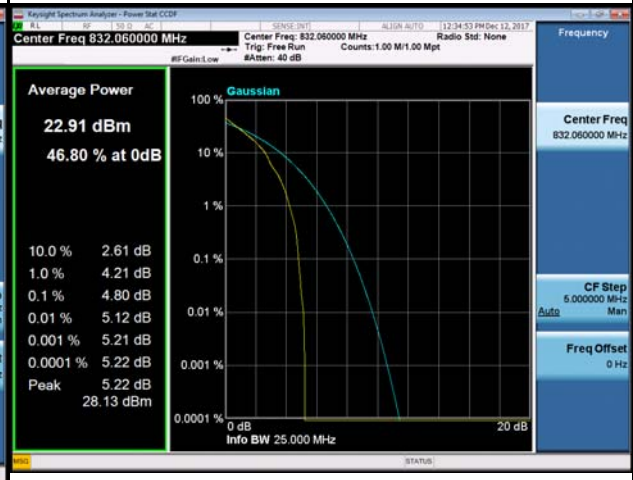


LTE Band 5 Spectrum Plot_10M

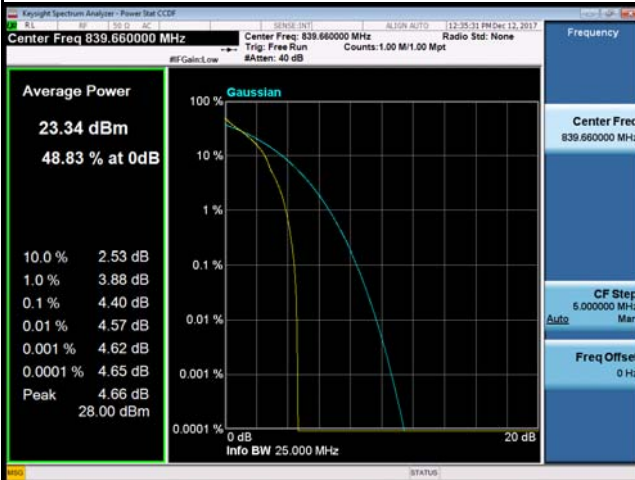
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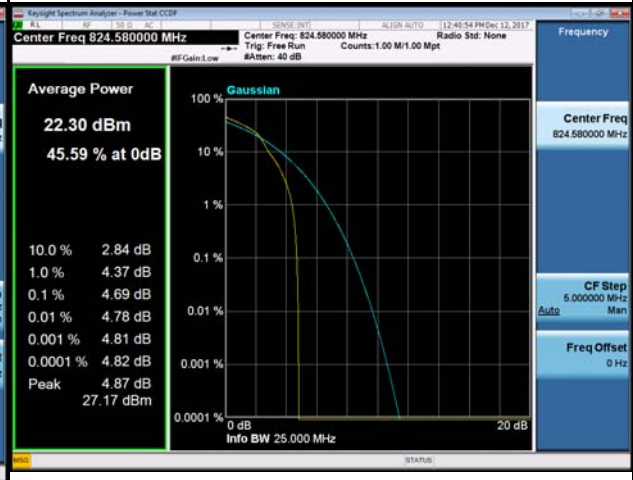
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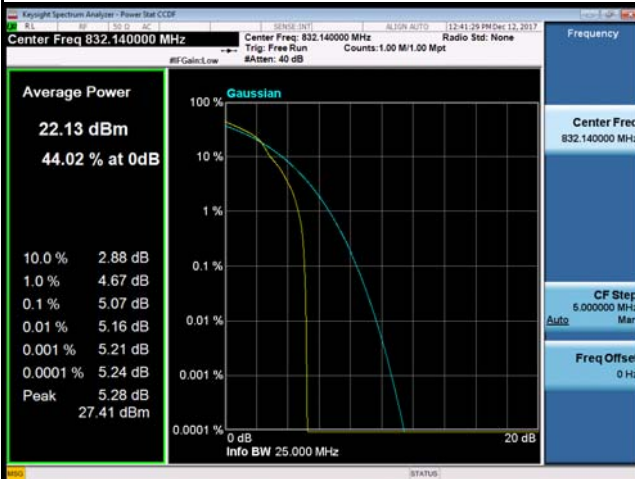
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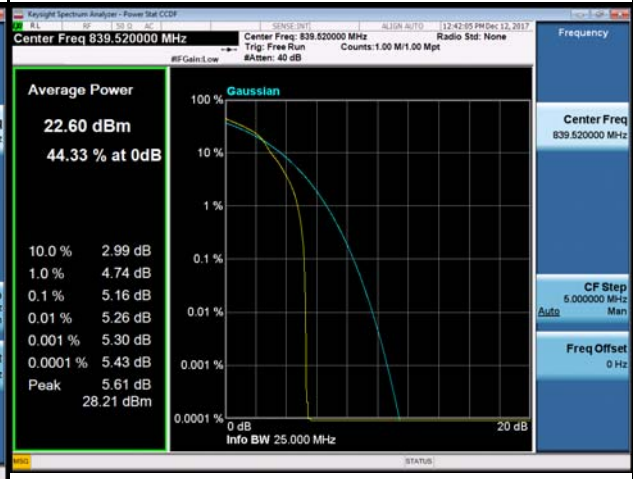
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16QAM-20525

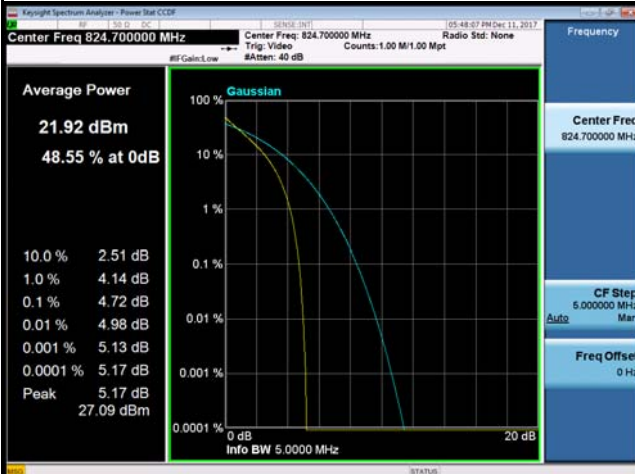


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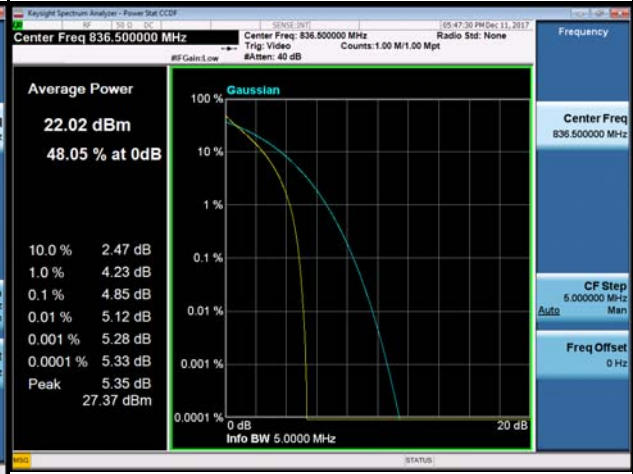


LTE Band 26 Spectrum Plot_1.4M

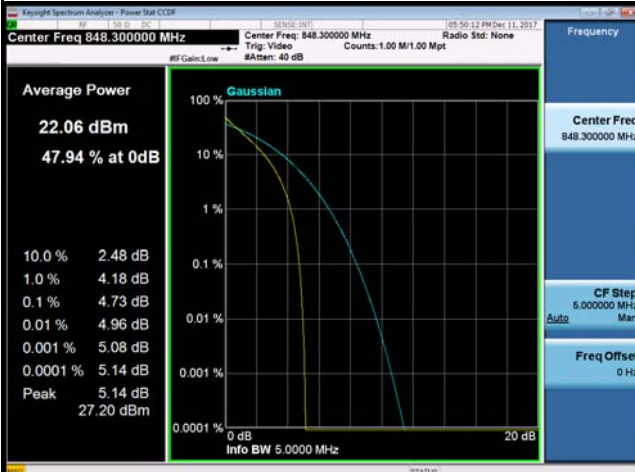
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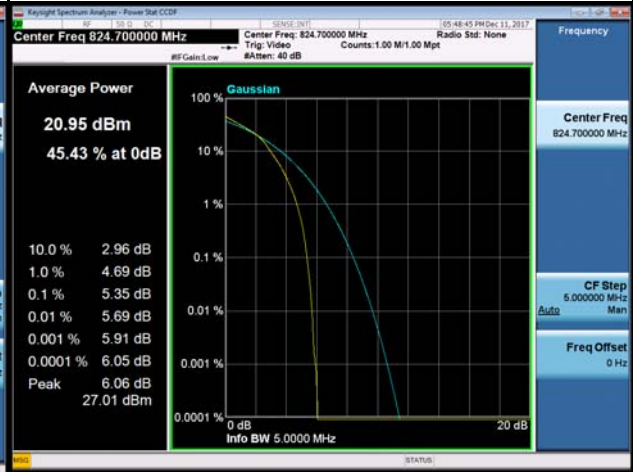
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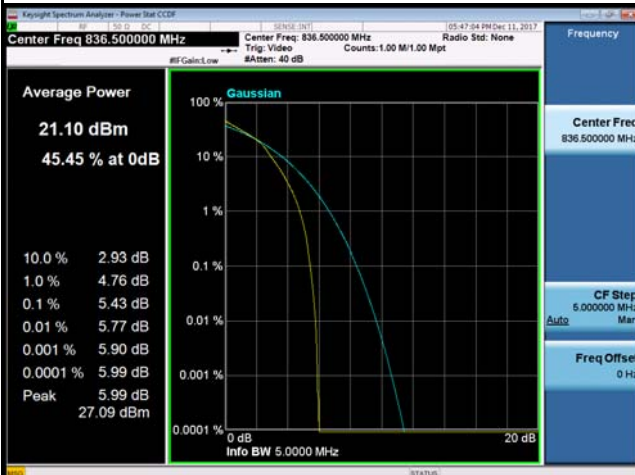
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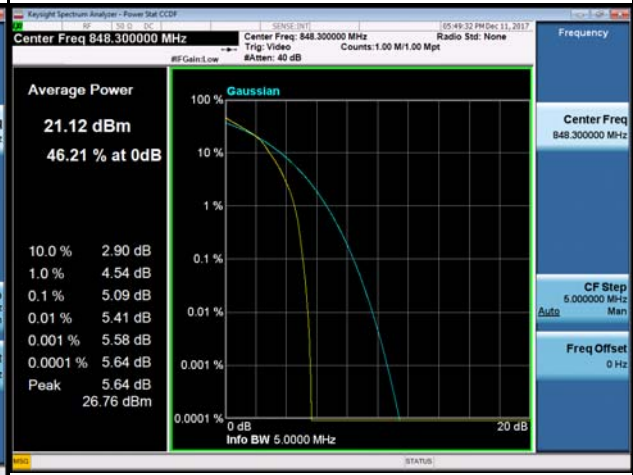
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16QAM-26915

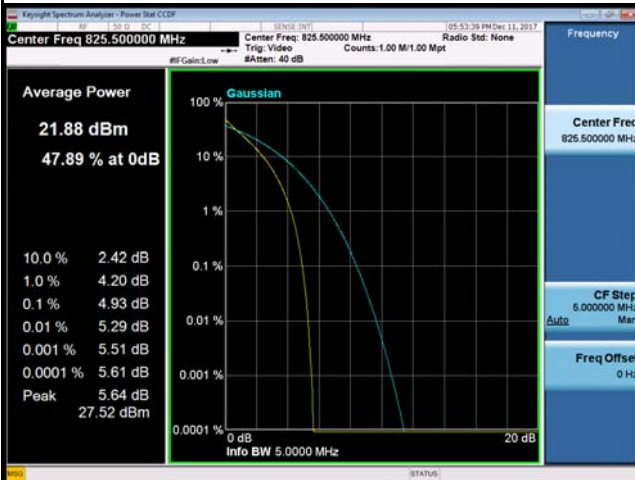


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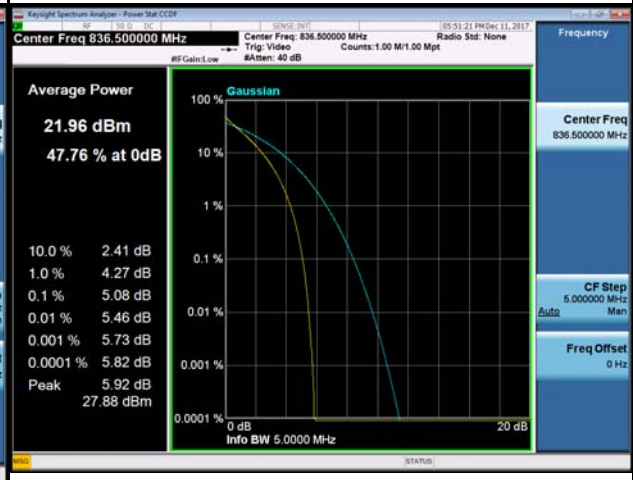


LTE Band 26 Spectrum Plot_3M

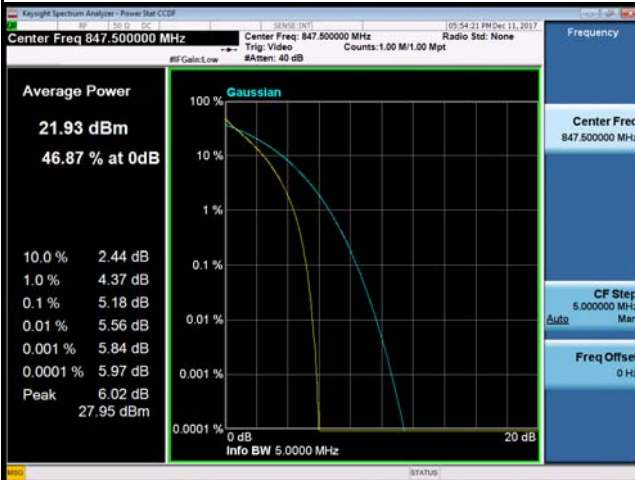
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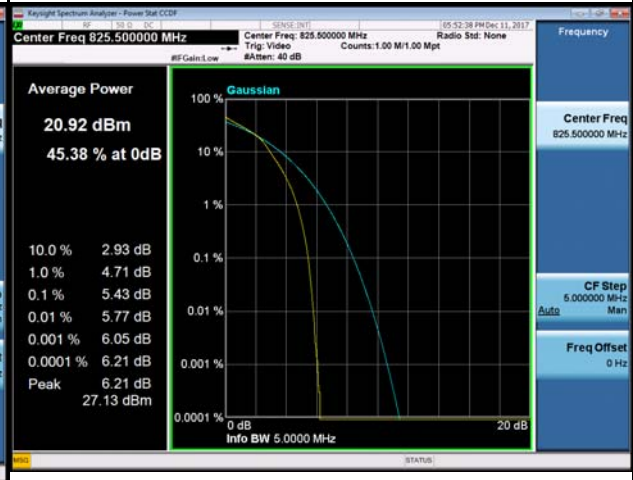
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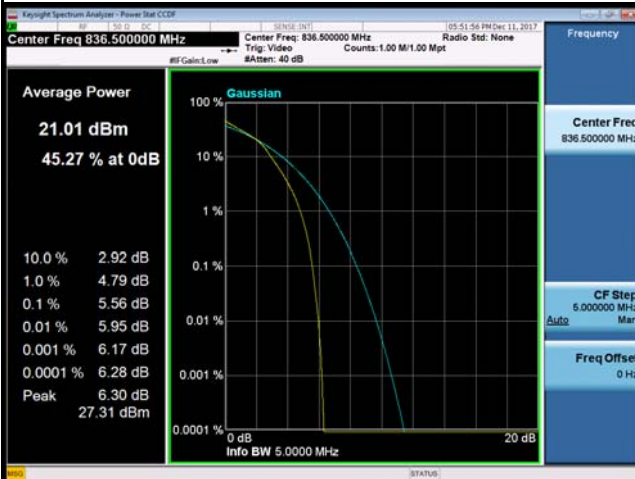
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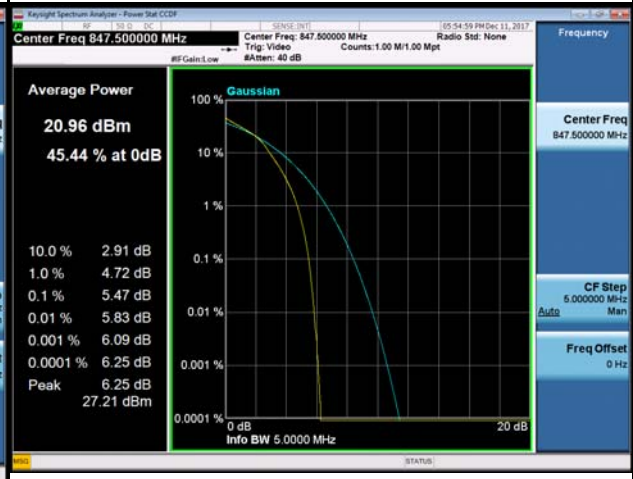
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16QAM-26915

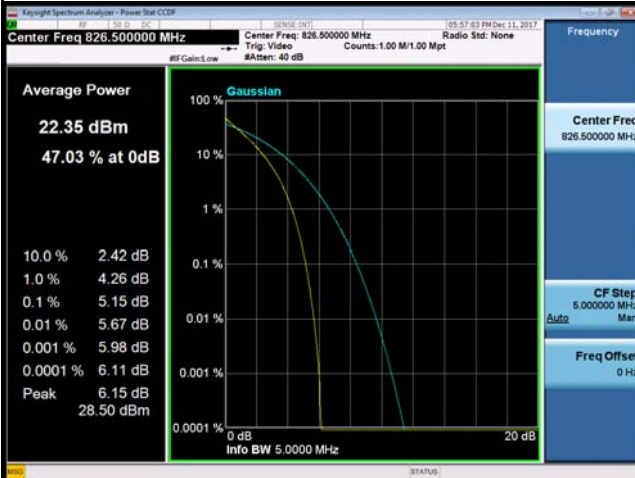


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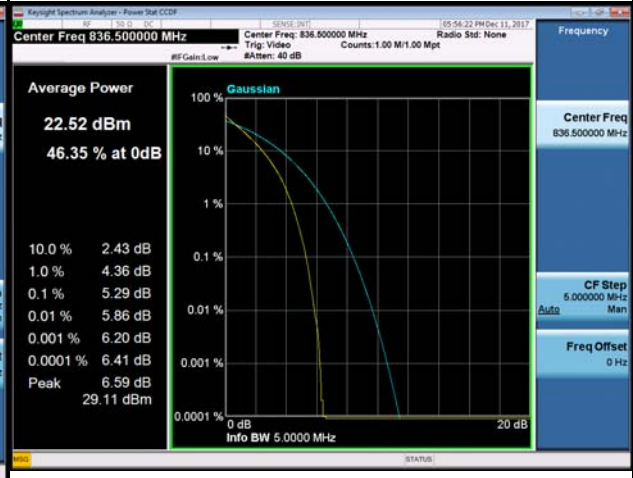


LTE Band 26 Spectrum Plot_5M

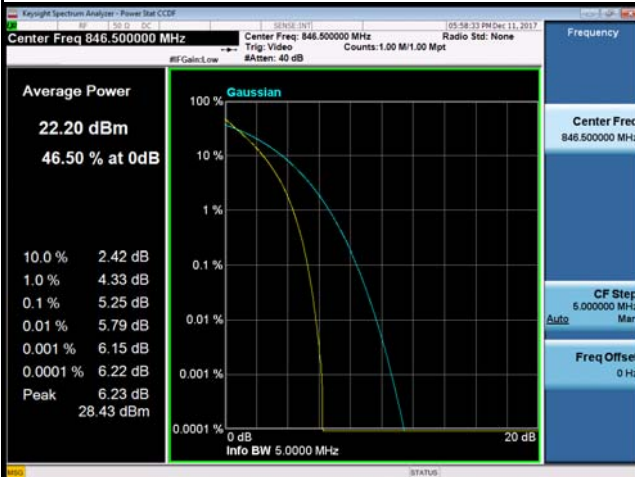
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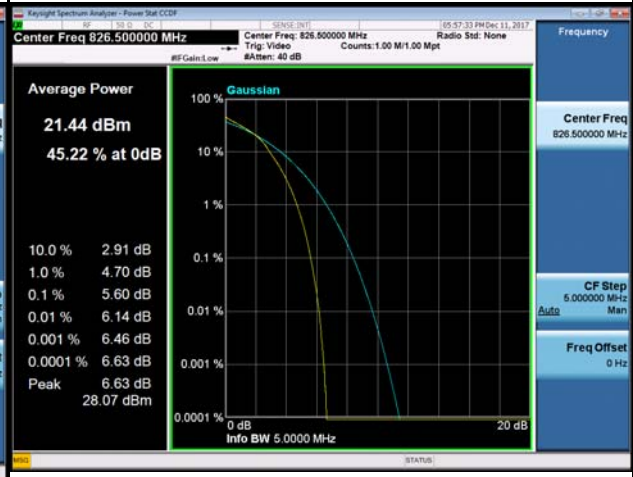
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QPSK-27015



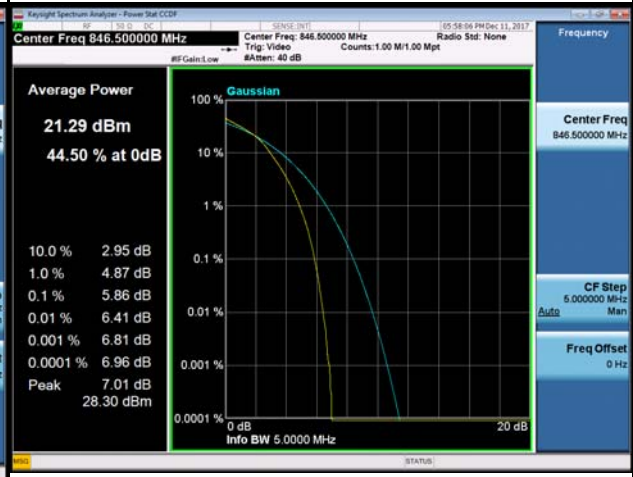
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16QAM-26915

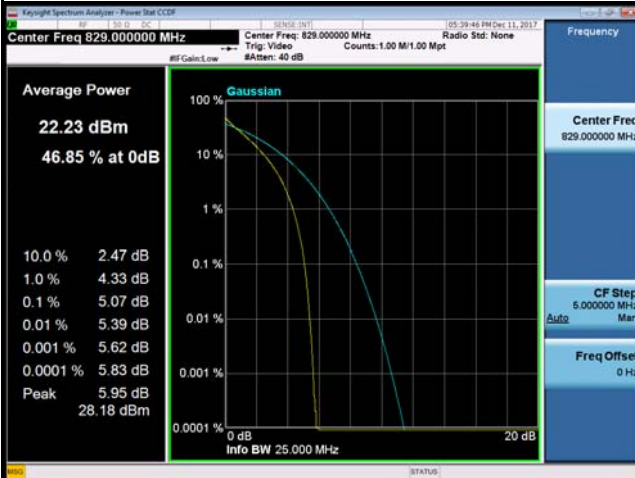


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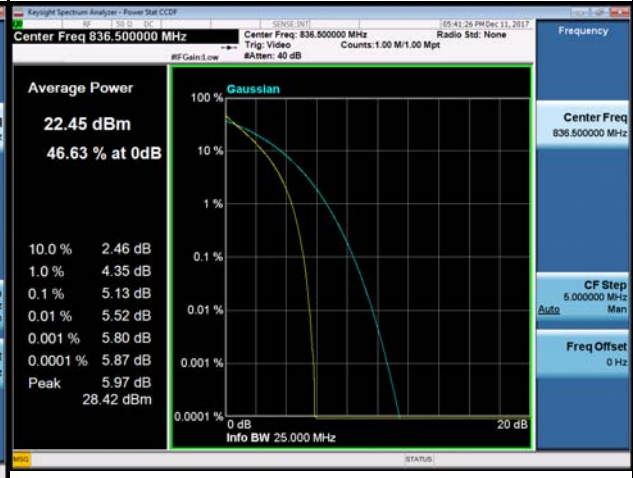


LTE Band 26 Spectrum Plot_10M

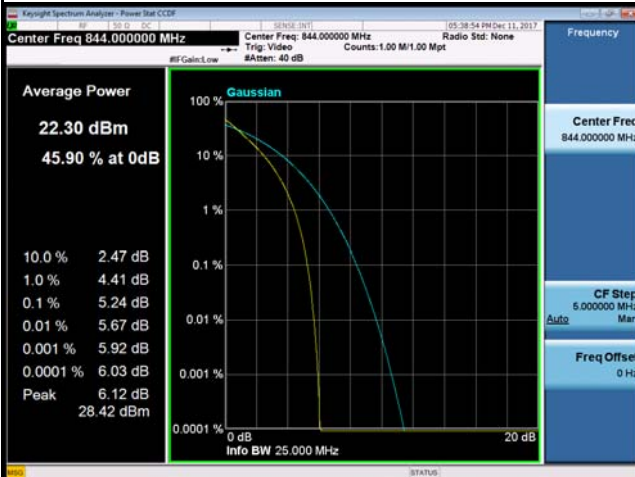
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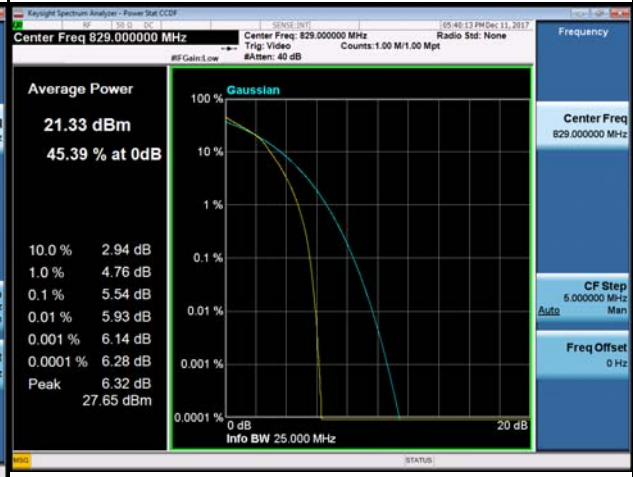
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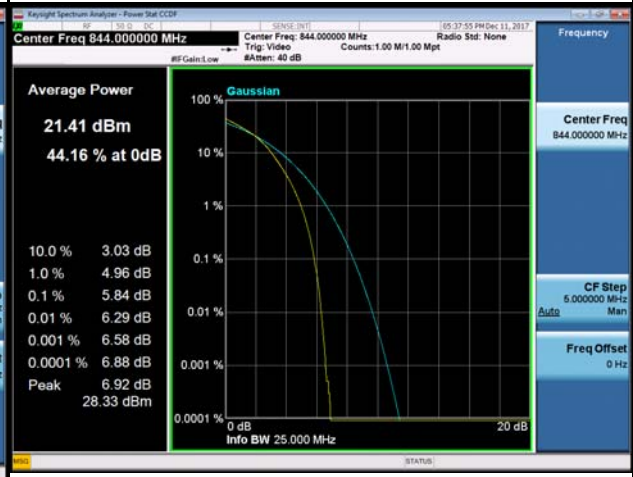
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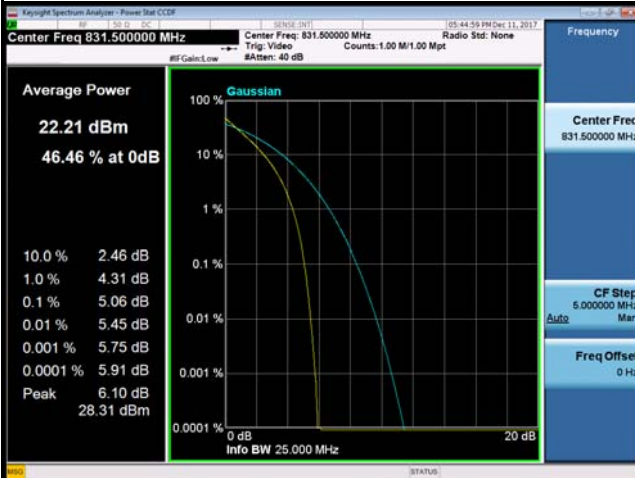


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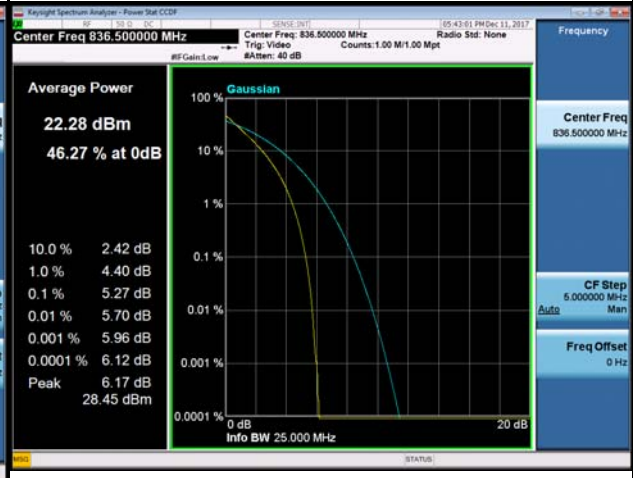


LTE Band 26 Spectrum Plot_15M

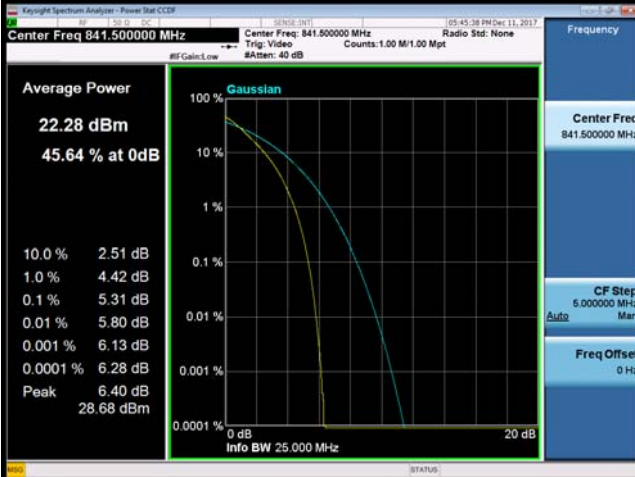
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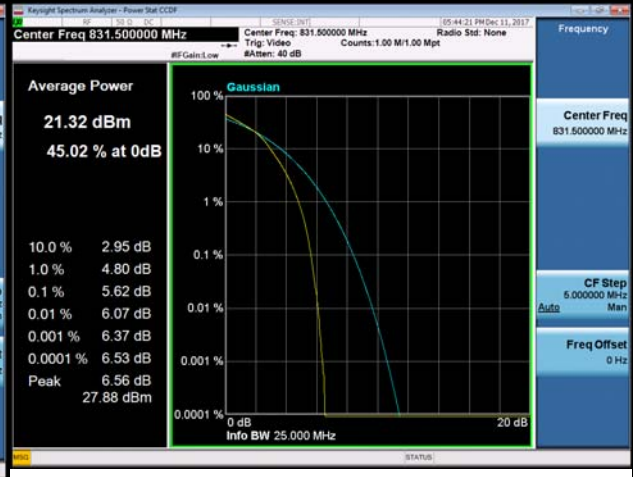
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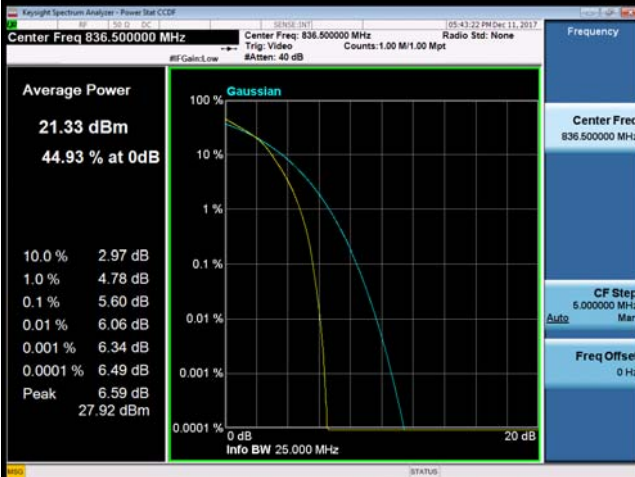
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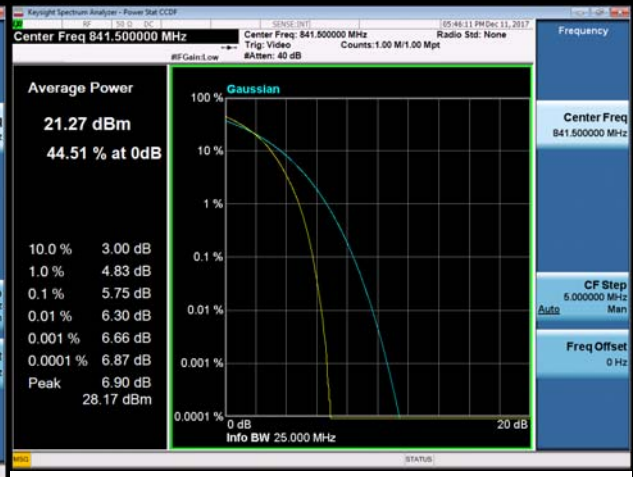
16QAM-26865



16QAM-26915



16QAM-26965



APPENDIX G - FREQUENCY STABILITY

Test Mode:	GSM850_CH128
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.21	0.006321281	2.5
-20	7.48	0.009075467	2.5
-10	3.13	0.003797622	2.5
0	6.16	0.007473914	2.5
10	4.15	0.005035186	2.5
20	2.21	0.002681388	2.5
30	3.58	0.004343606	2.5
40	7.13	0.008650813	2.5
50	5.22	0.006333414	2.5
Max. Deviation (ppm)	7.48	0.009075467	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.99	0.00362776	2.5
3.82V	5.32	0.006454744	2.5
4.40V	3.58	0.004343606	2.5
Max. Deviation (ppm)	5.32	0.006454744	2.5

Test Mode:	WCDMA Band V_CH4182
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.85	0.008189861	2.5
-20	4.12	0.004925873	2.5
-10	8.02	0.009588714	2.5
0	7.56	0.009038737	2.5
10	2.14	0.002558584	2.5
20	6.85	0.008189861	2.5
30	5.48	0.006551889	2.5
40	3.69	0.004411765	2.5
50	2.18	0.002606408	2.5
Max. Deviation (ppm)	8.02	0.009588714	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	6.65	0.007950741	2.5
3.82V	3.48	0.004160689	2.5
4.40V	5.18	0.006193209	2.5
Max. Deviation (ppm)	6.65	0.007950741	2.5

Test Mode:	LTE Band 5_CH20525_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.61	0.003120143	2.5
-20	-3.71	0.004435146	2.5
-10	-3.08	0.003682008	2.5
0	2.96	0.003538553	2.5
10	6.52	0.007794381	2.5
20	-7.05	0.008427974	2.5
30	6.43	0.00768679	2.5
40	2.21	0.002641961	2.5
50	-8.01	0.009575613	2.5
Max. Deviation (ppm)	8.01	0.009575613	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	6.01	0.007184698	2.5
3.82V	5.38	0.00643156	2.5
4.40V	-2.29	0.002737597	2.5
Max. Deviation (ppm)	6.01	0.007184698	2.5

Test Mode:	LTE Band 5_CH20525_3M
------------	-----------------------

Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.98	0.002367005	2.5
-20	6.73	0.008045427	2.5
-10	-2.56	0.003060371	2.5
0	6.15	0.007352062	2.5
10	-4.78	0.005714286	2.5
20	-3.46	0.004136282	2.5
30	2.29	0.002737597	2.5
40	-4.07	0.004865511	2.5
50	5.63	0.006730424	2.5
Max. Deviation (ppm)	6.73	0.008045427	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	-3.17	0.0037896	2.5
3.82V	-6.22	0.007435744	2.5
4.40V	-4.95	0.005917513	2.5
Max. Deviation (ppm)	6.22	0.007435744	2.5

Test Mode:	LTE Band 5_CH20525_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.35	0.006395696	2.5
-20	6.32	0.00755529	2.5
-10	-3.58	0.004279737	2.5
0	6.12	0.007316198	2.5
10	-4.35	0.005200239	2.5
20	3.21	0.003837418	2.5
30	5.35	0.006395696	2.5
40	4.38	0.005236103	2.5
50	-5.21	0.006228332	2.5
Max. Deviation (ppm)	6.32	0.00755529	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.25	0.002689779	2.5
3.82V	-3.08	0.003682008	2.5
4.40V	3.26	0.003897191	2.5
Max. Deviation (ppm)	3.26	0.003897191	2.5

Test Mode:	LTE Band 5_CH20525_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.35	0.002809325	2.5
-20	-3.68	0.004399283	2.5
-10	5.35	0.006395696	2.5
0	6.35	0.007591154	2.5
10	-5.32	0.006359833	2.5
20	4.68	0.00559474	2.5
30	6.35	0.007591154	2.5
40	-3.58	0.004279737	2.5
50	5.35	0.006395696	2.5
Max. Deviation (ppm)	6.35	0.007591154	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	3.81	0.004554692	2.5
3.82V	6.30	0.007531381	2.5
4.40V	5.19	0.006204423	2.5
Max. Deviation (ppm)	6.30	0.007531381	2.5

Test Mode:	LTE Band 26_CH26915_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.13	0.007328153	2.5
-20	-5.24	0.006264196	2.5
-10	1.95	0.002331142	2.5
0	-2.67	0.003191871	2.5
10	-3.06	0.003658099	2.5
20	5.28	0.006312014	2.5
30	6.37	0.007615063	2.5
40	2.21	0.002641961	2.5
50	6.49	0.007758518	2.5
Max. Deviation (ppm)	6.49	0.007758518	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.39	0.002857143	2.5
3.82V	-3.17	0.0037896	2.5
4.40V	-2.58	0.00308428	2.5
Max. Deviation (ppm)	3.17	0.0037896	2.5

Test Mode:	LTE Band 26_CH26915_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.31	0.002761506	2.5
-20	-1.67	0.001996414	2.5
-10	5.29	0.006323969	2.5
0	6.87	0.008212791	2.5
10	-1.28	0.001530185	2.5
20	-5.13	0.006132696	2.5
30	-6.34	0.007579199	2.5
40	4.69	0.005606695	2.5
50	7.61	0.00909743	2.5
Max. Deviation (ppm)	7.61	0.00909743	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.95	0.003526599	2.5
3.82V	-3.67	0.004387328	2.5
4.40V	3.72	0.004447101	2.5
Max. Deviation (ppm)	3.72	0.004447101	2.5

Test Mode:	LTE Band 26_CH26915_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	7.35	0.008786611	2.5
-20	5.28	0.006312014	2.5
-10	-3.84	0.004590556	2.5
0	6.29	0.007519426	2.5
10	4.33	0.00517633	2.5
20	-5.06	0.006049014	2.5
30	7.19	0.008595338	2.5
40	-4.98	0.005953377	2.5
50	3.17	0.0037896	2.5
Max. Deviation (ppm)	7.35	0.008786611	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	-2.61	0.003120143	2.5
3.82V	3.87	0.00462642	2.5
4.40V	-1.21	0.001446503	2.5
Max. Deviation (ppm)	3.87	0.00462642	2.5

Test Mode:	LTE Band 26_CH26915_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.68	0.004396892	2.5
-20	-5.31	0.006347878	2.5
-10	6.69	0.007997609	2.5
0	4.17	0.004985057	2.5
10	-5.29	0.006323969	2.5
20	-3.35	0.004004782	2.5
30	5.61	0.006706515	2.5
40	1.88	0.00224746	2.5
50	2.91	0.003478781	2.5
Max. Deviation (ppm)	6.69	0.007997609	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	3.08	0.003682008	2.5
3.82V	-1.34	0.001601913	2.5
4.40V	-3.69	0.004411237	2.5
Max. Deviation (ppm)	3.69	0.004411237	2.5

Test Mode:	LTE Band 26_CH26915_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.68	0.004399283	2.5
-20	4.21	0.005032875	2.5
-10	-2.17	0.002594142	2.5
0	3.86	0.004614465	2.5
10	7.54	0.009013748	2.5
20	4.31	0.005152421	2.5
30	-4.88	0.005833831	2.5
40	6.37	0.007615063	2.5
50	2.19	0.002618051	2.5
Max. Deviation (ppm)	7.54	0.009013748	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	1.57	0.001876868	2.5
3.82V	3.61	0.004315601	2.5
4.40V	-2.14	0.002558279	2.5
Max. Deviation (ppm)	3.61	0.004315601	2.5