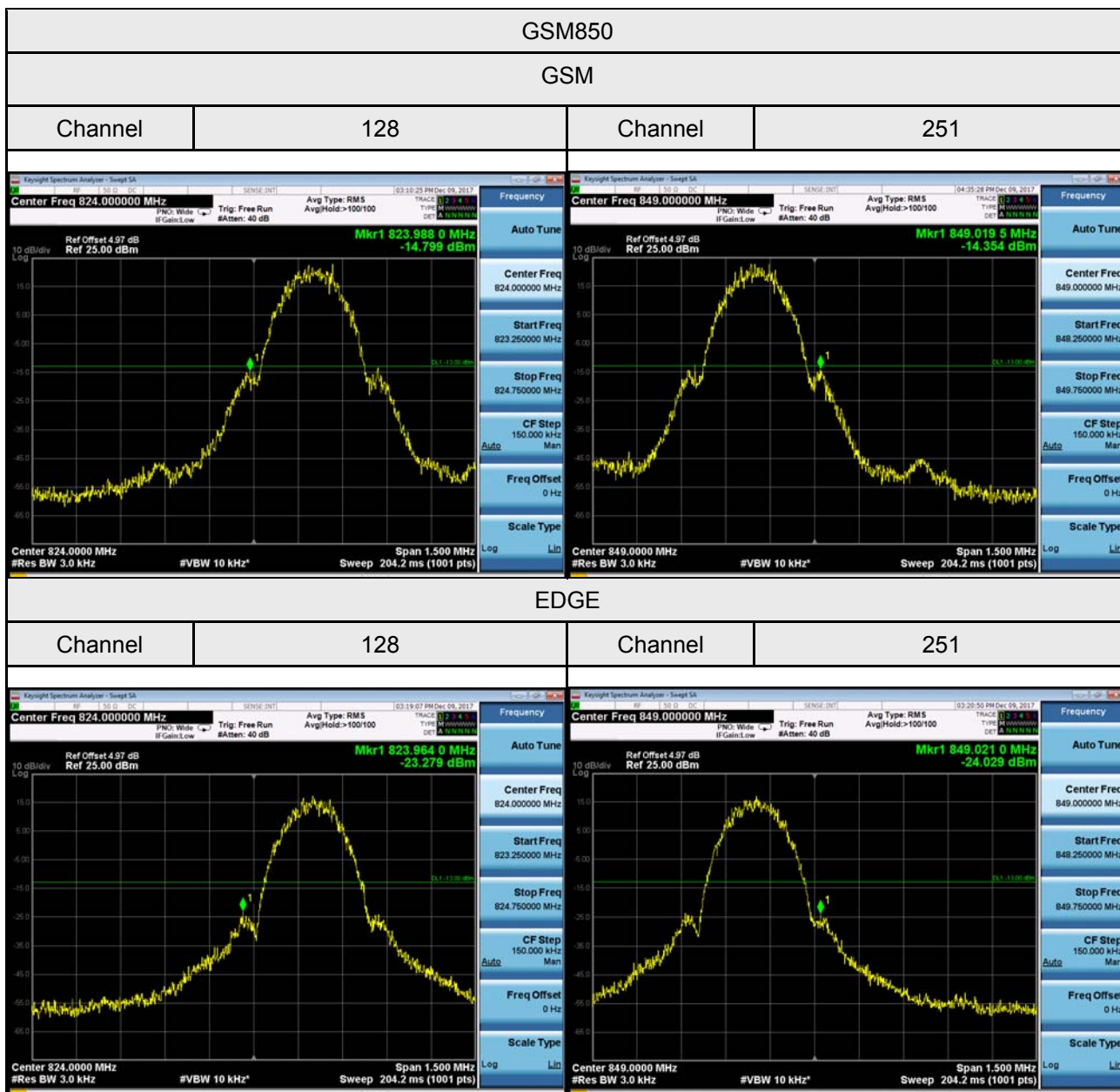
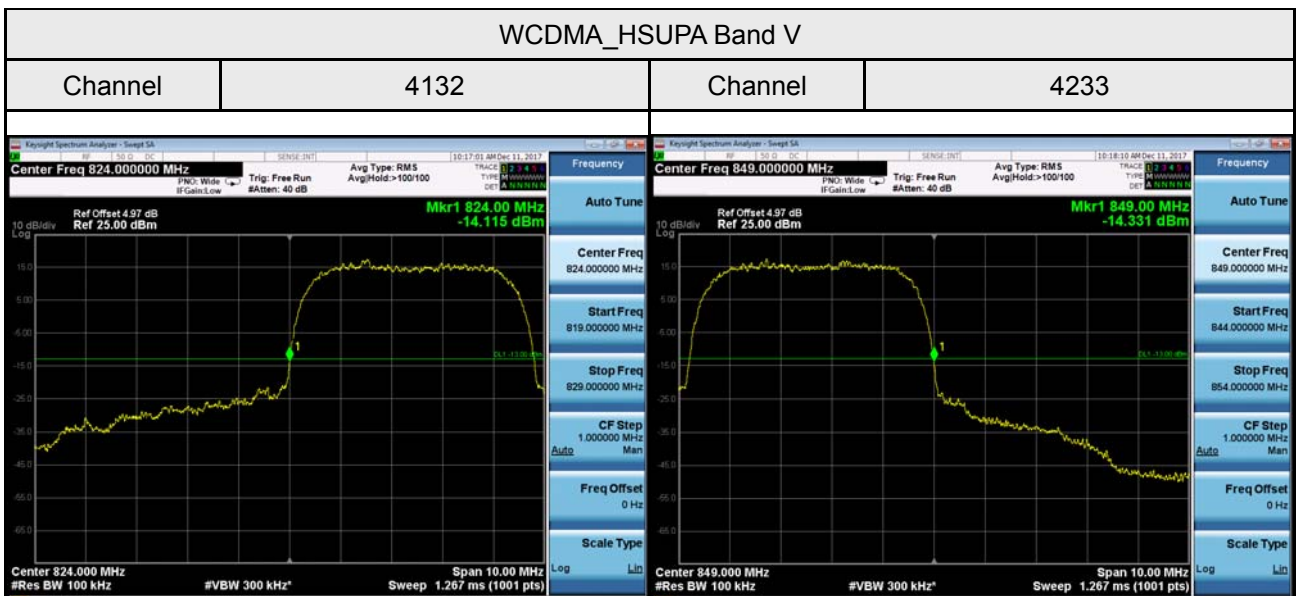
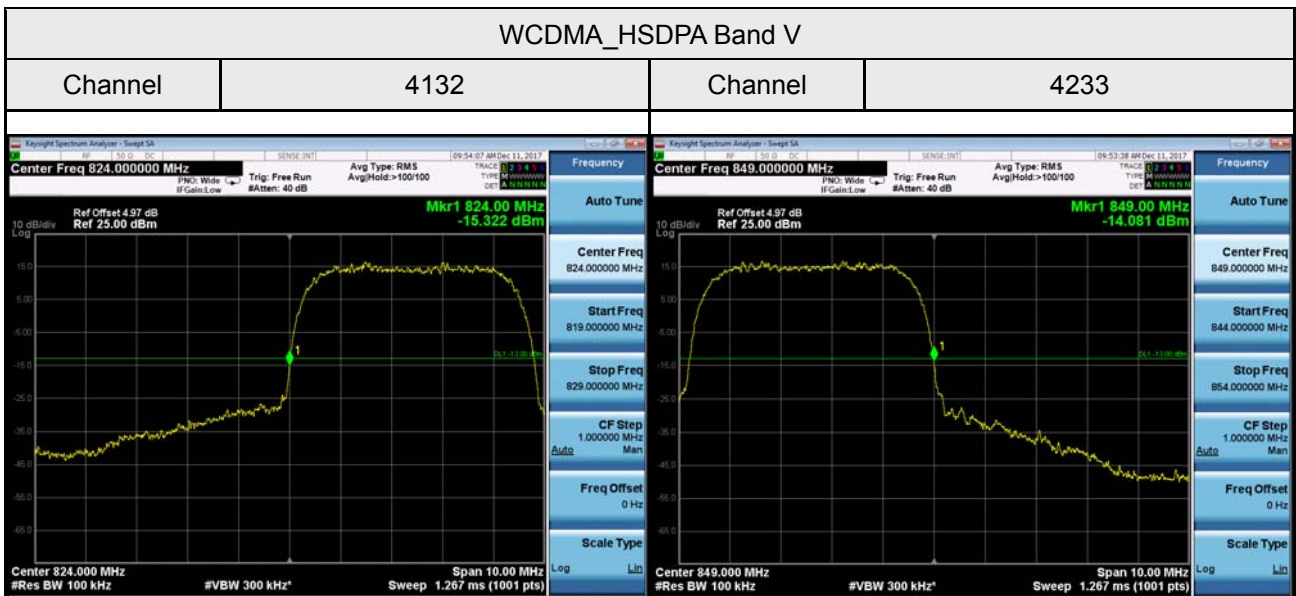
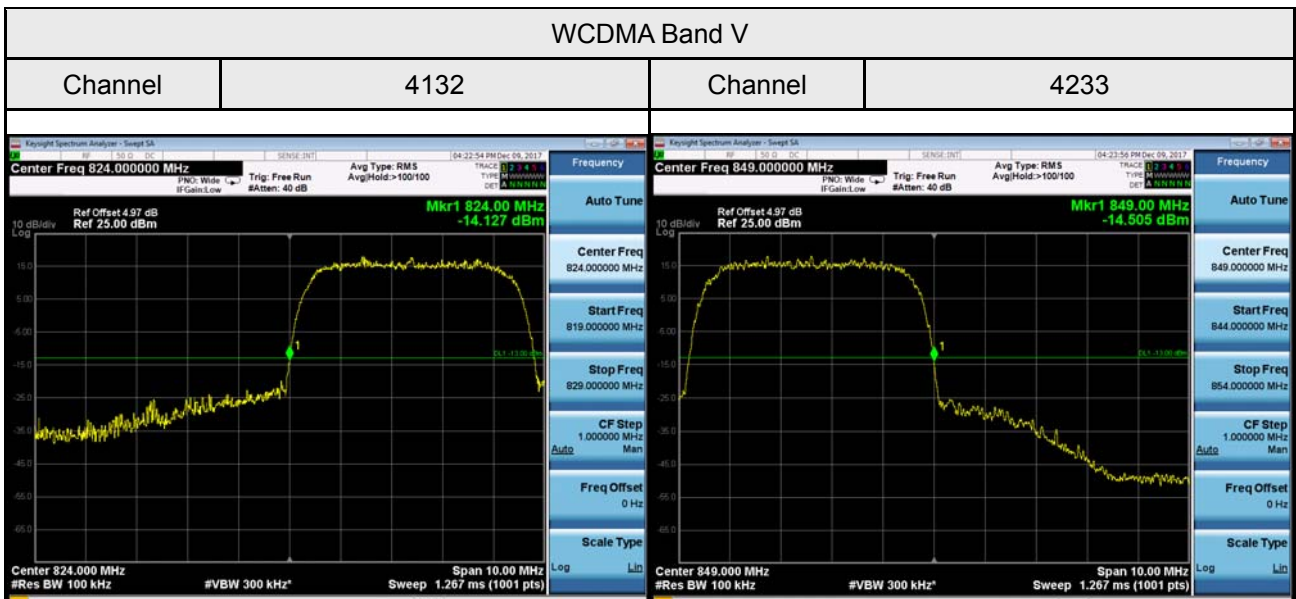


APPENDIX E - BAND EDGE





LTE Band 5_1.4M

1RB0

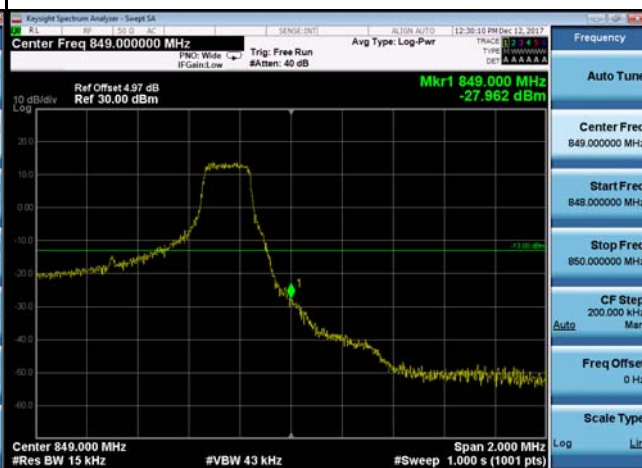
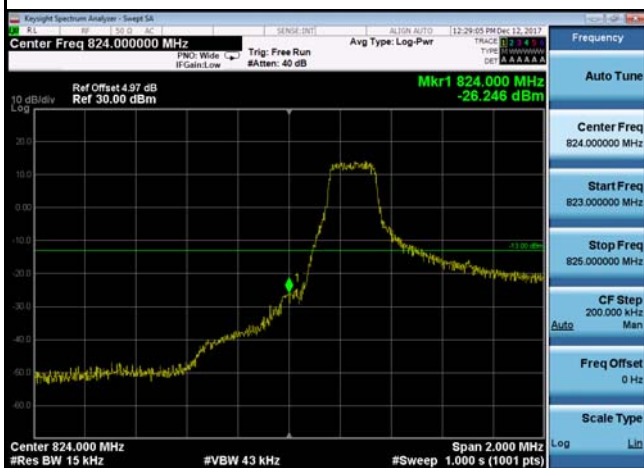
1RB5

Channel

20407

Channel

20643



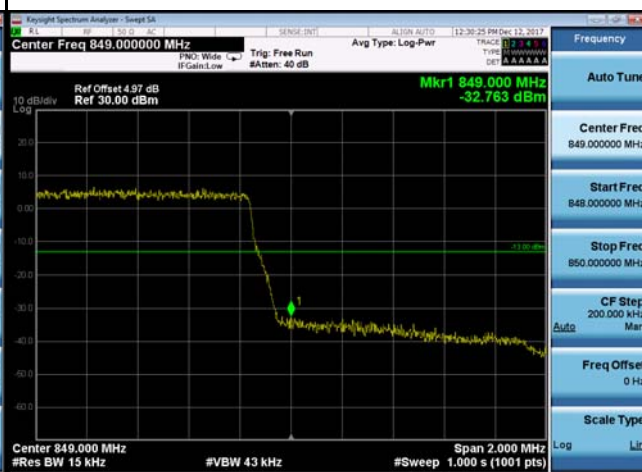
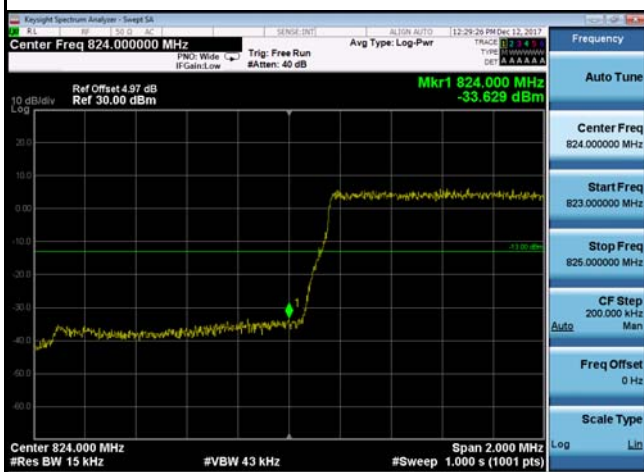
6RB0

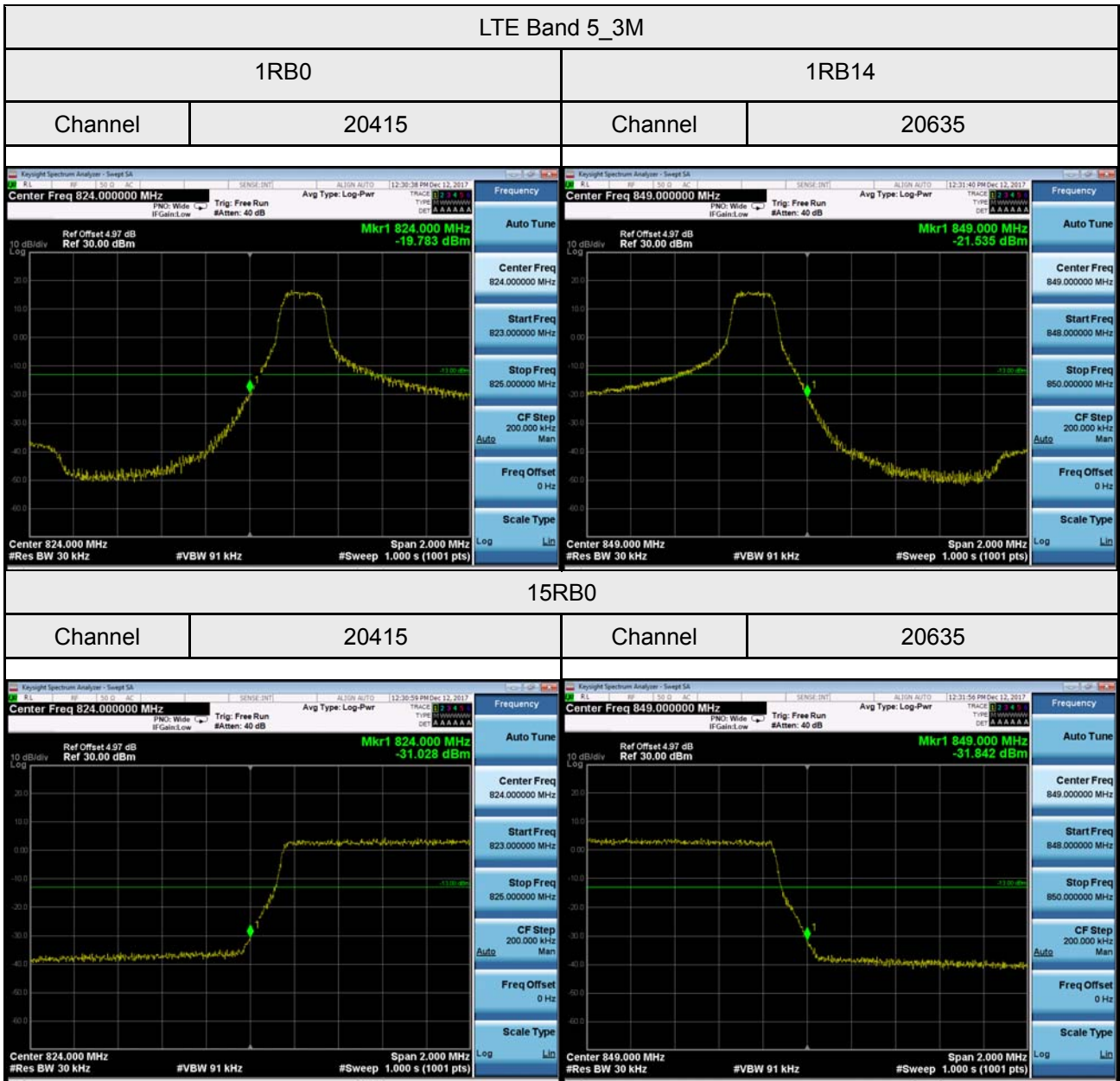
Channel

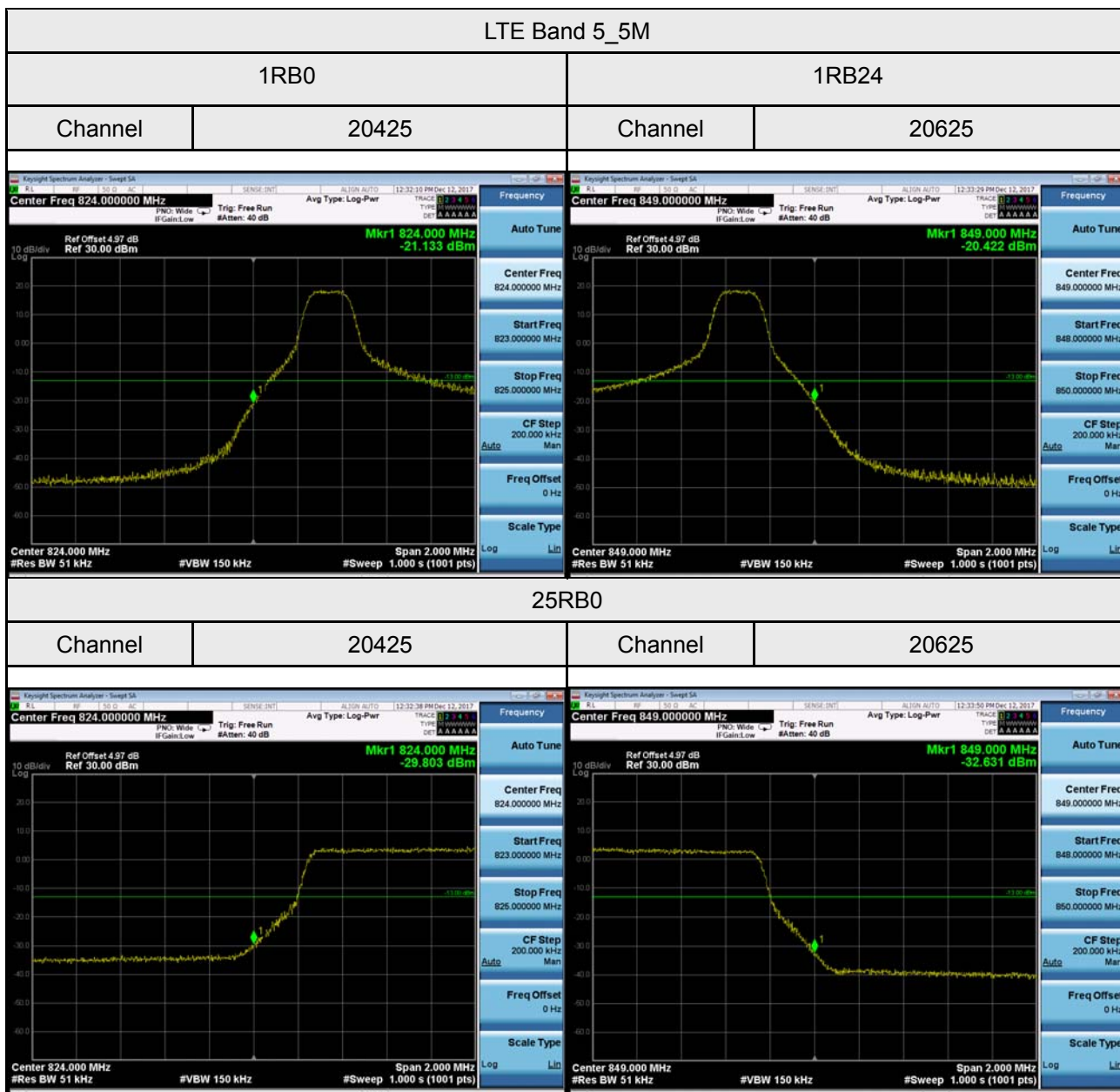
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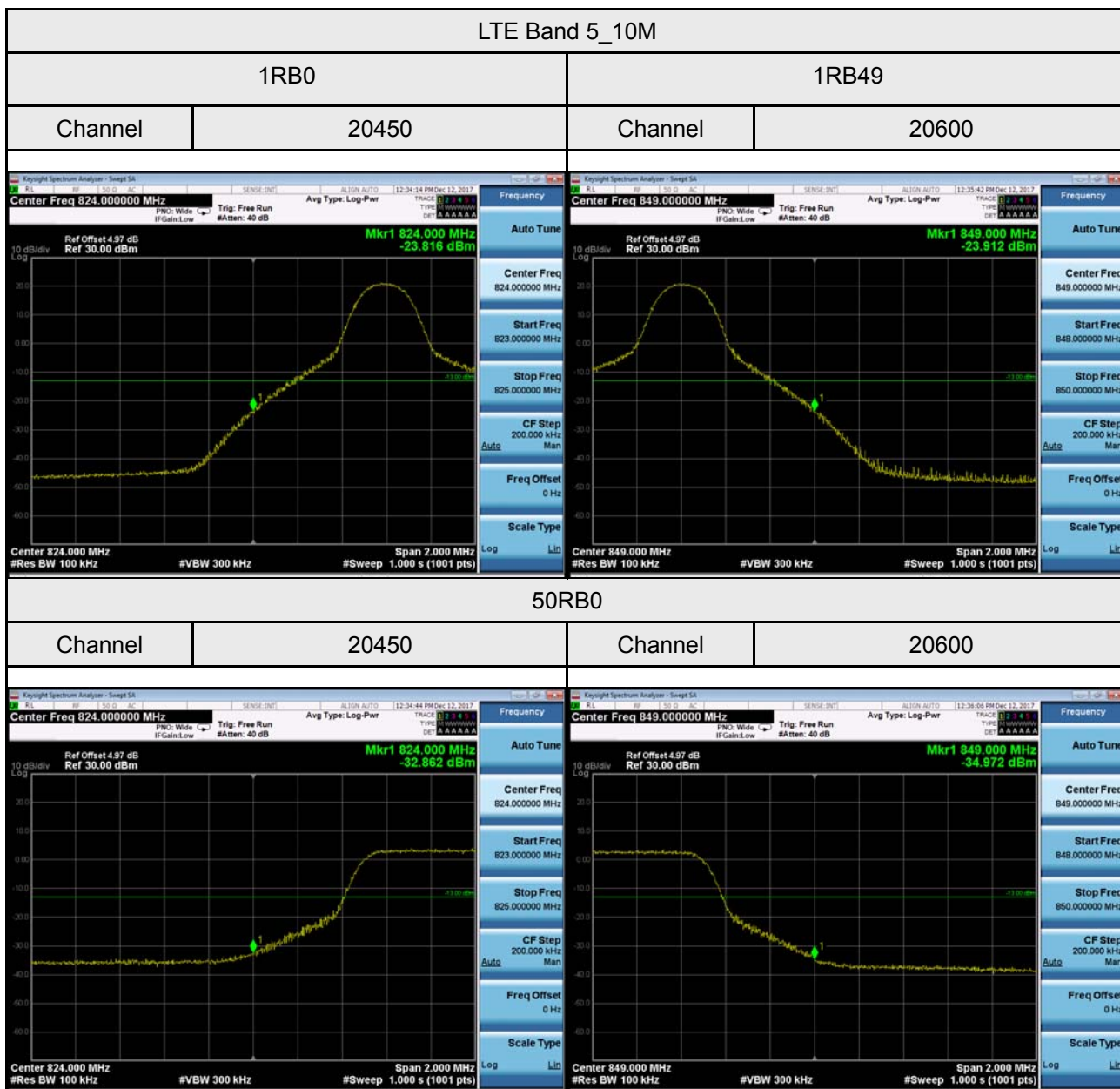
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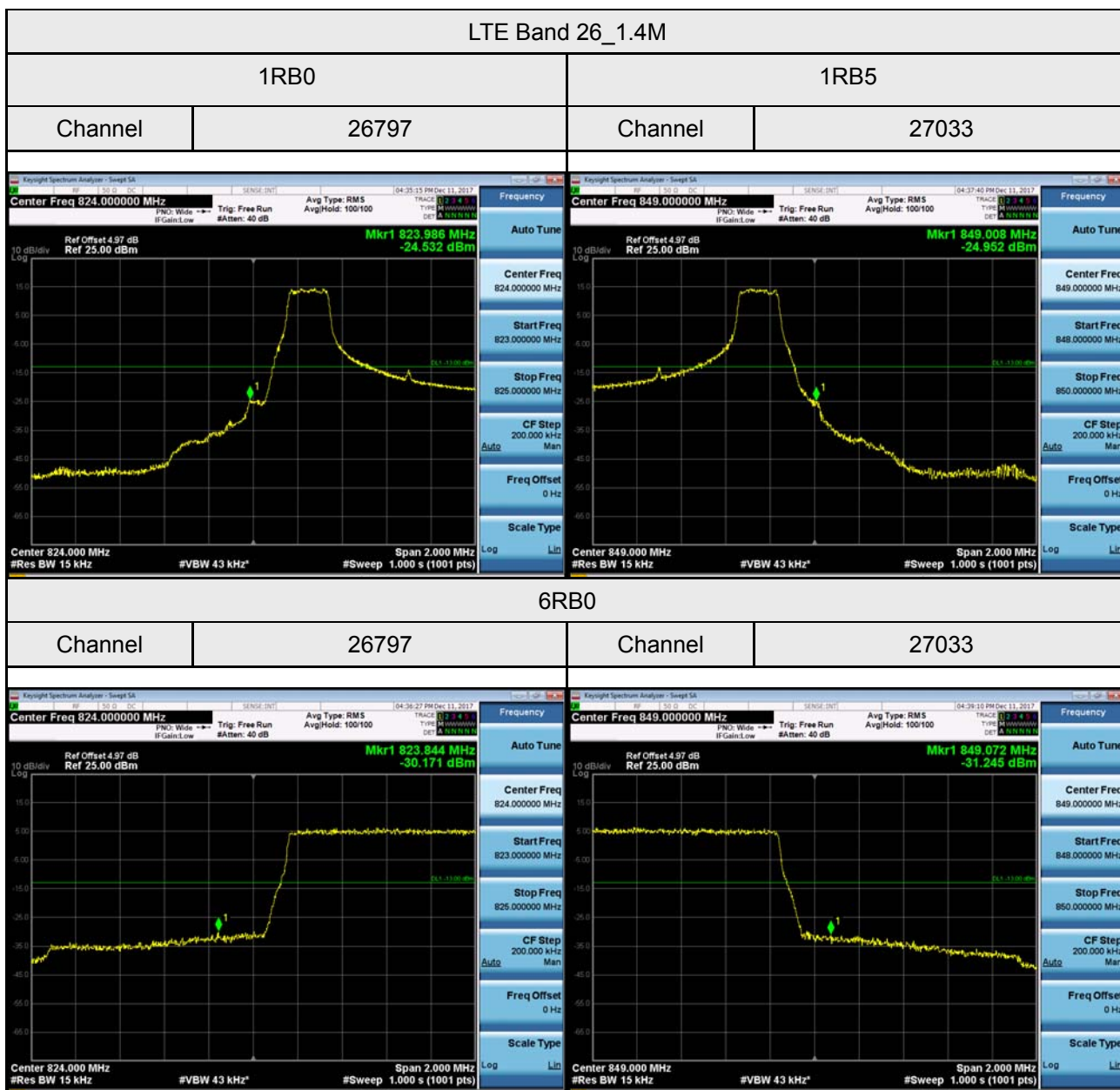
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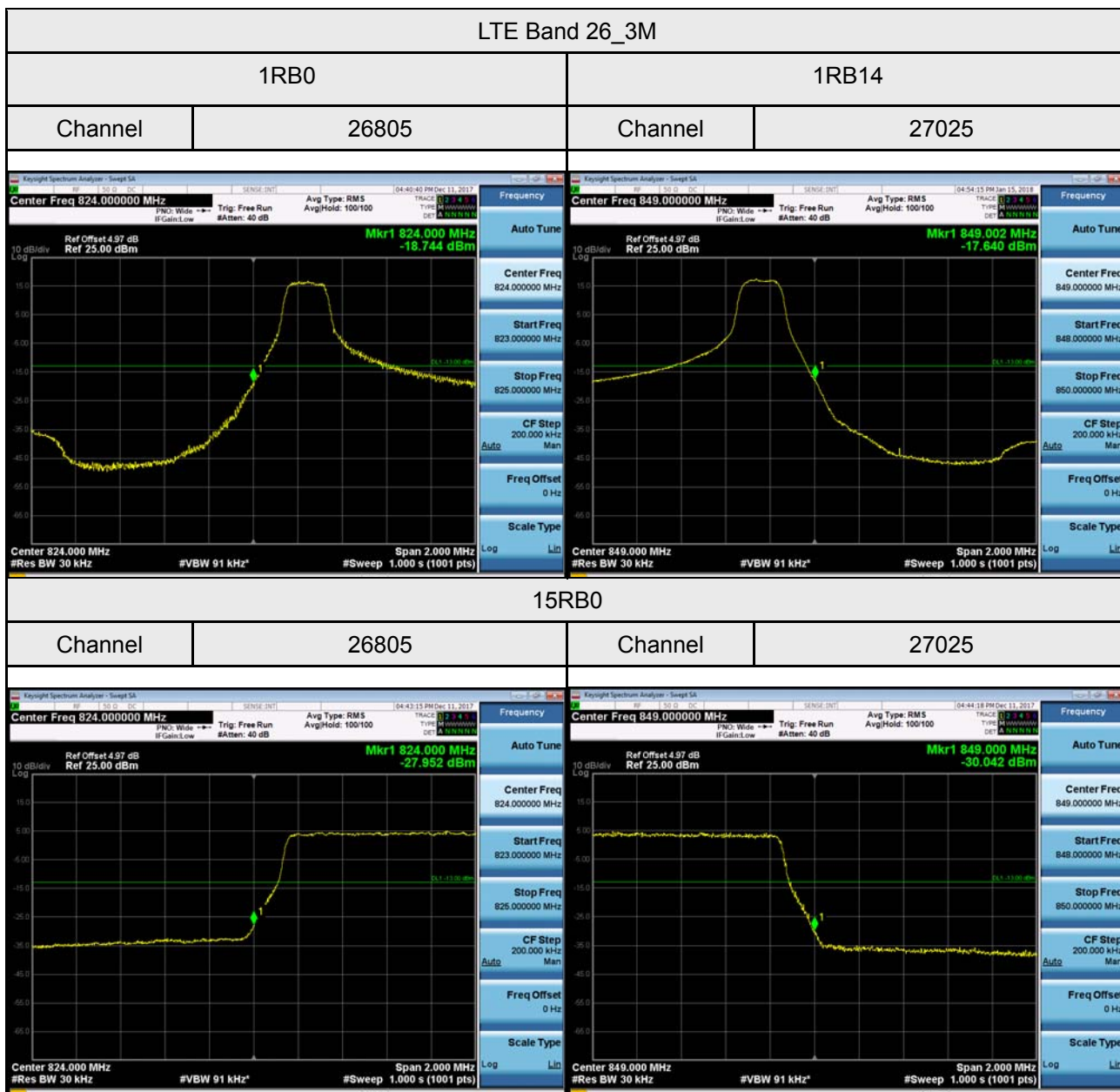


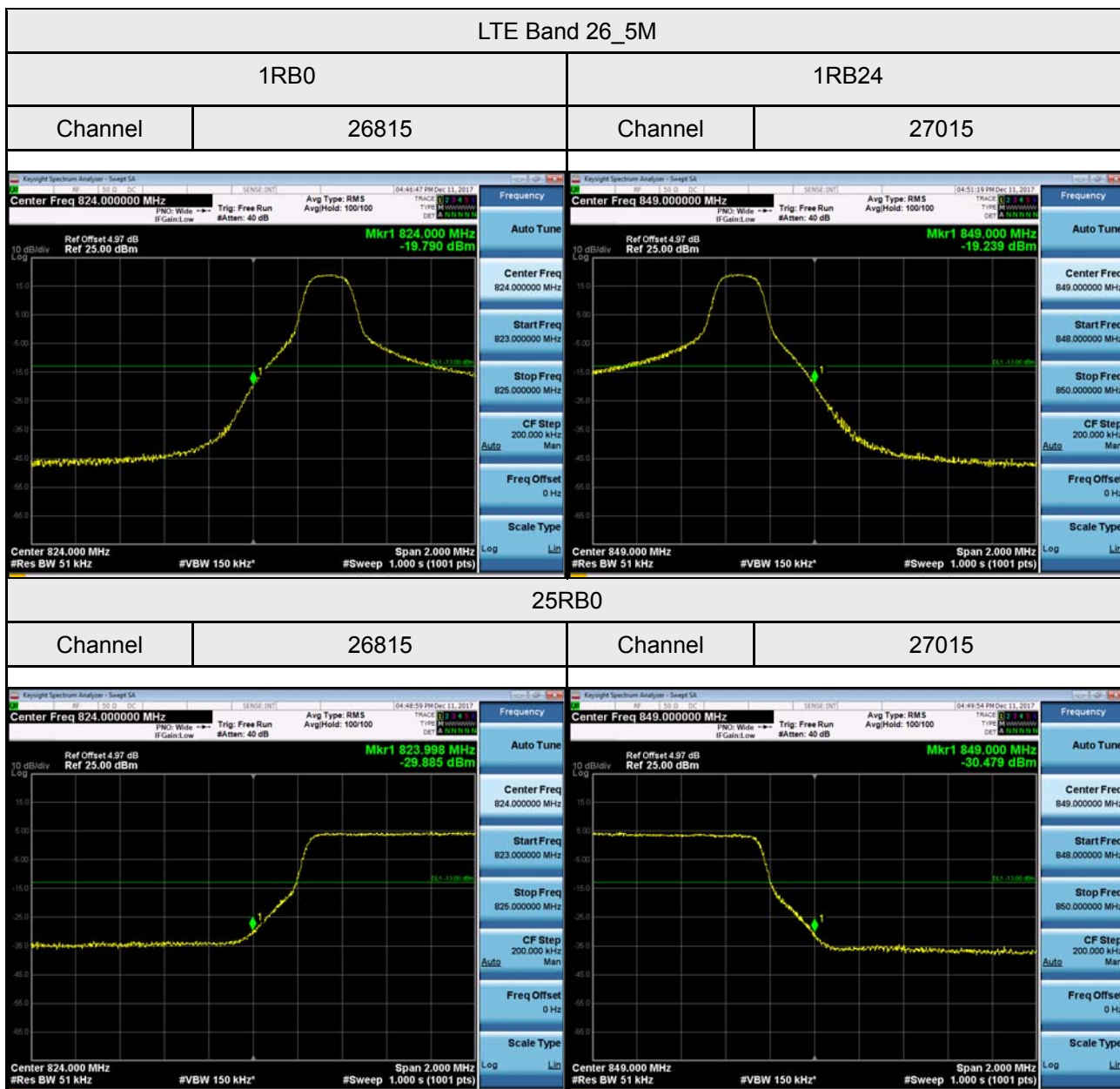


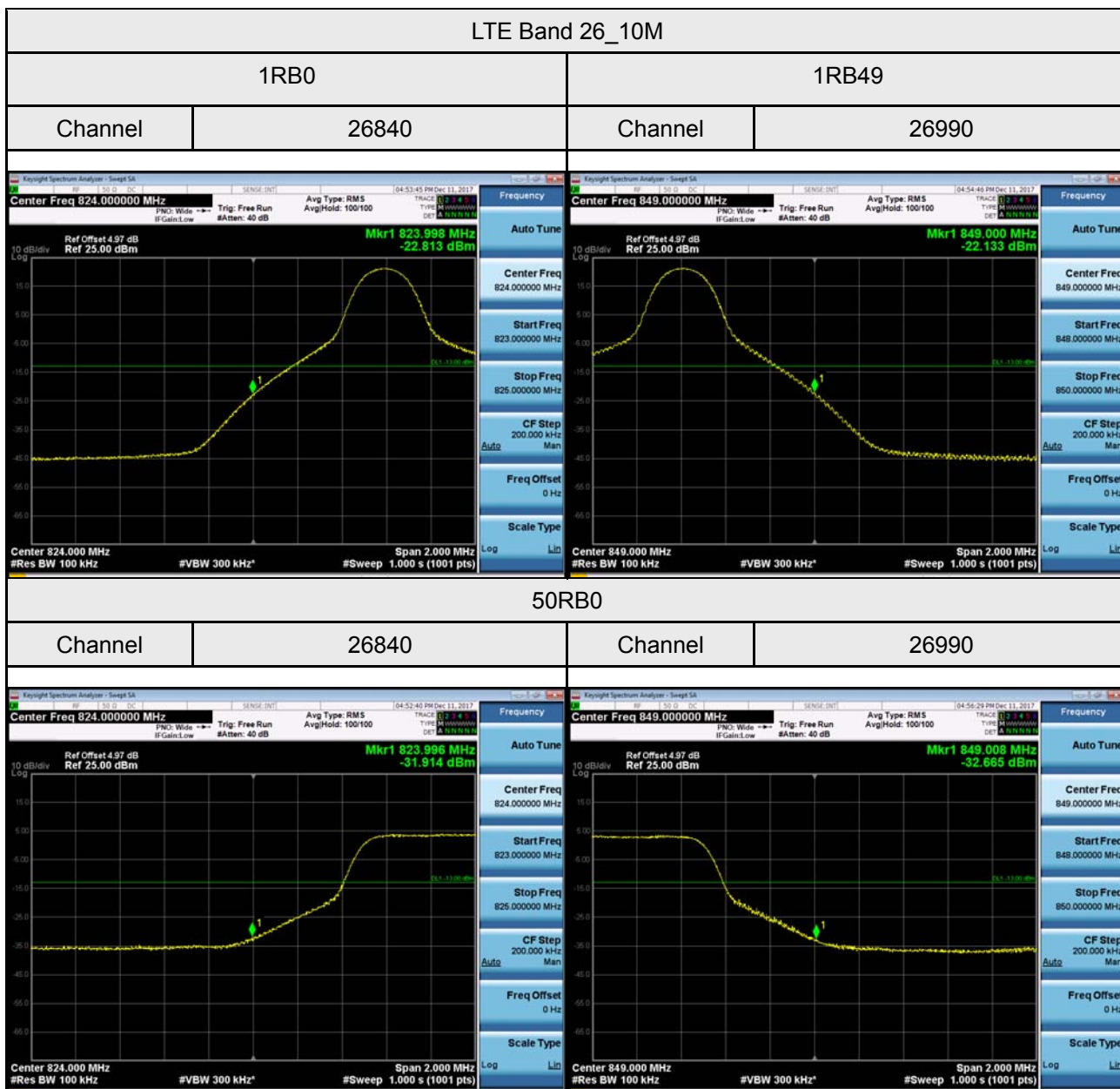


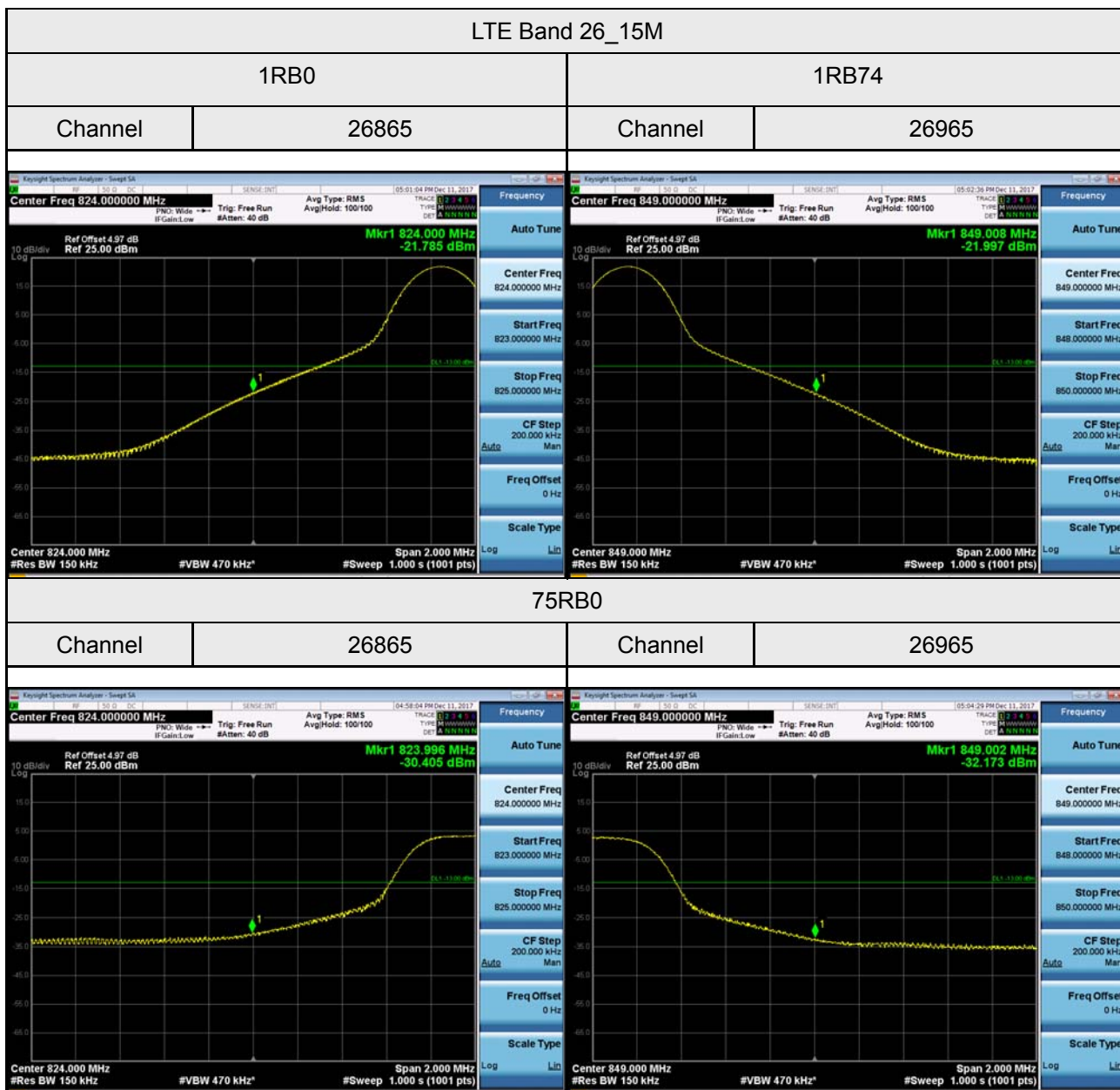








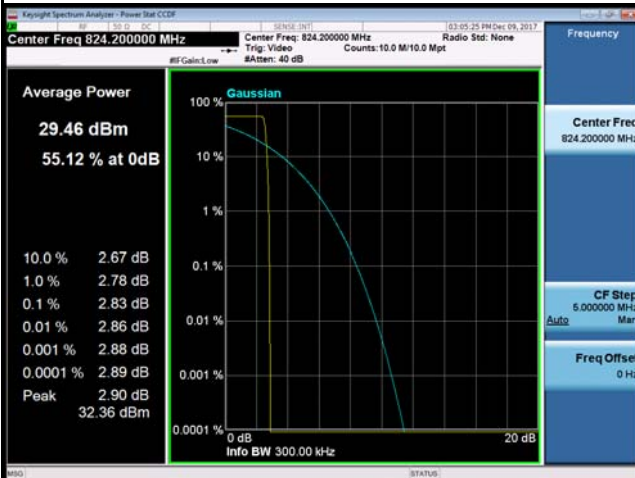




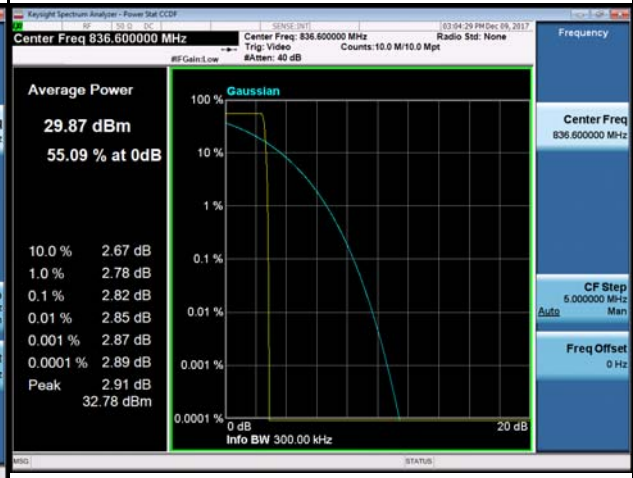
APPENDIX F - PEAK TO AVERAGE RATIO

GSM 850 Spectrum Plot

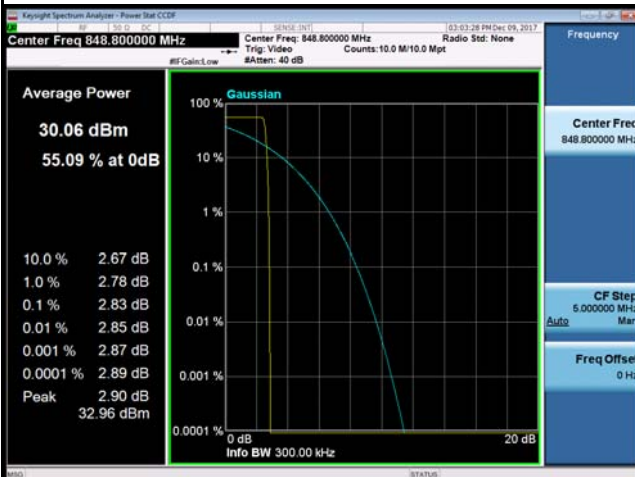
GSM -128



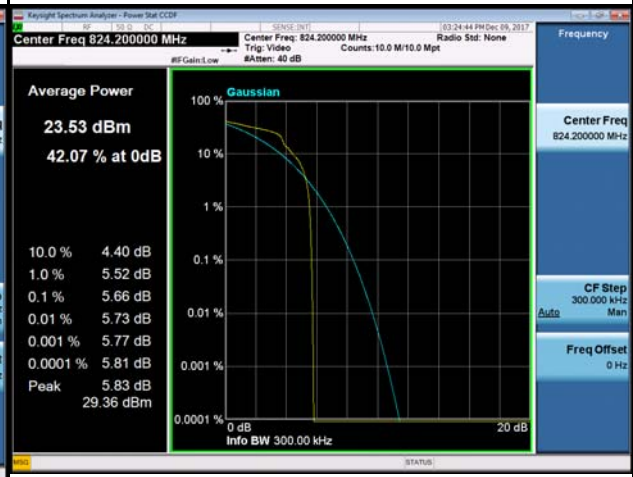
GSM-190



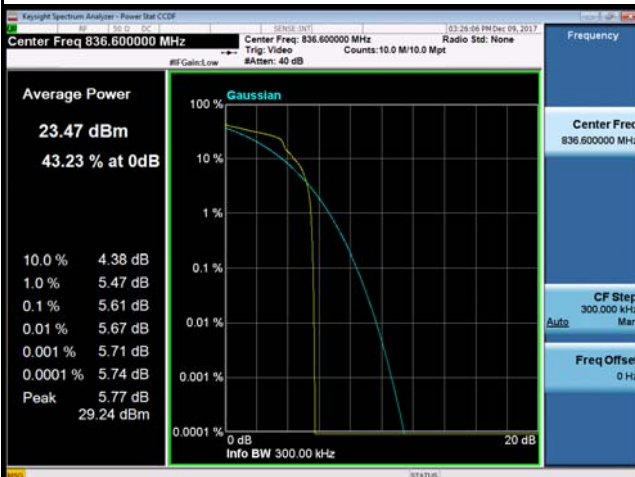
GSM-251



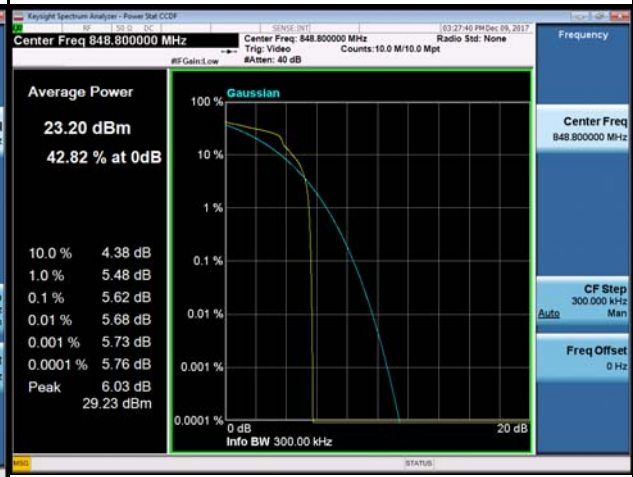
EDGE-128



EDGE-190



EDGE-251

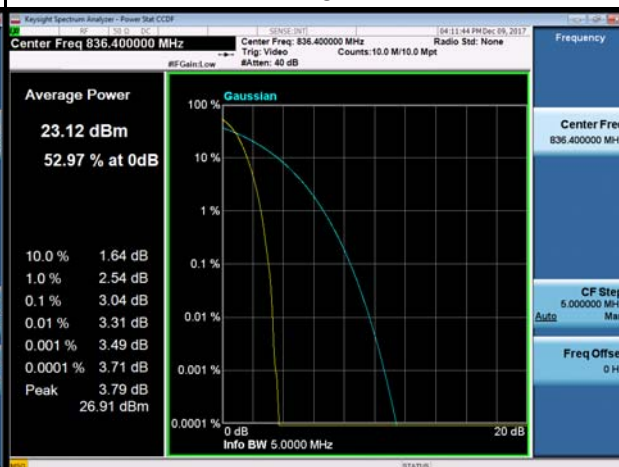


WCDMA Band V Spectrum Plot

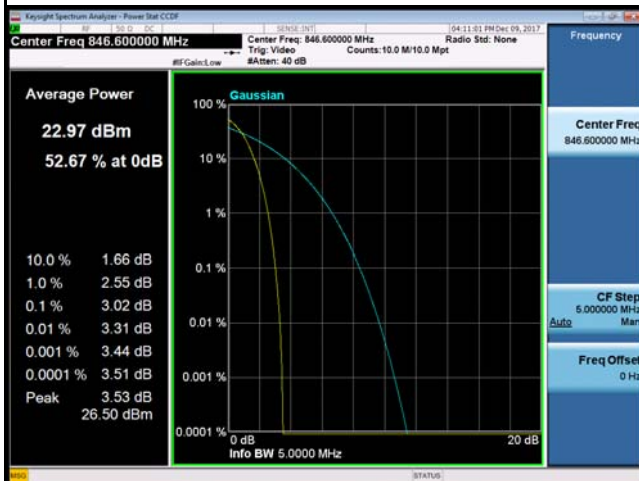
4132



4182



4233



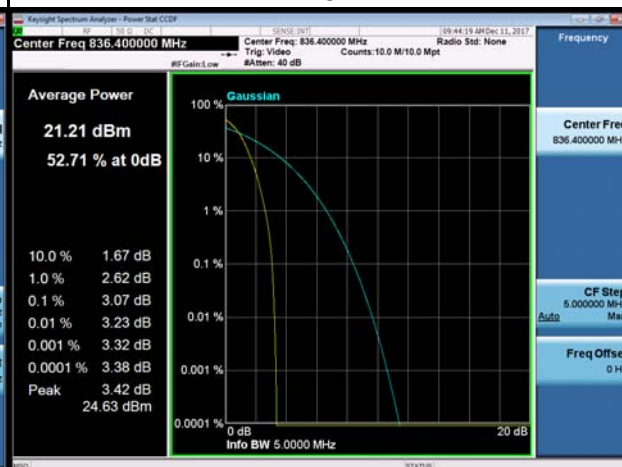
-

-

WCDMA_HSDPA Band V Spectrum Plot

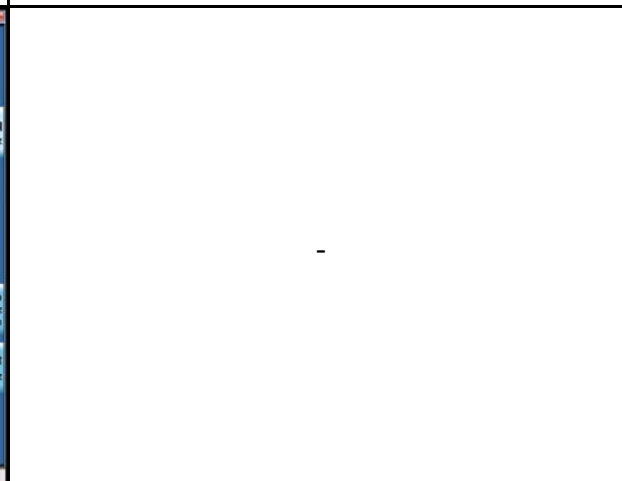
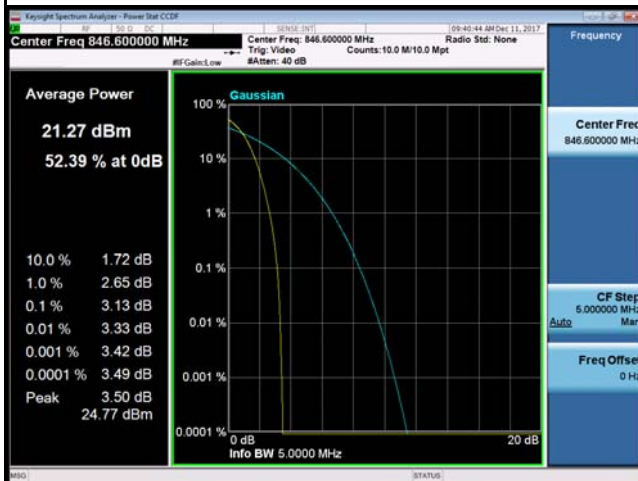
4132

4182



4233

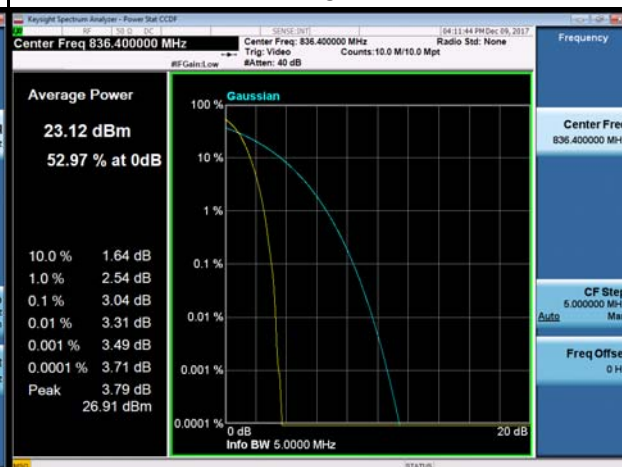
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WCDMA_HSUPA Band V Spectrum Plot

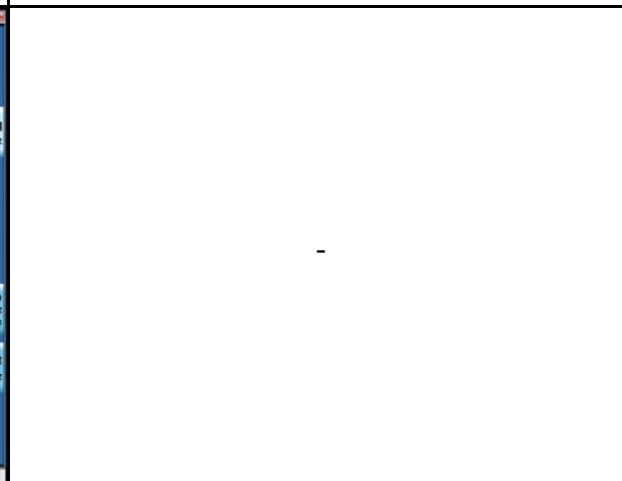
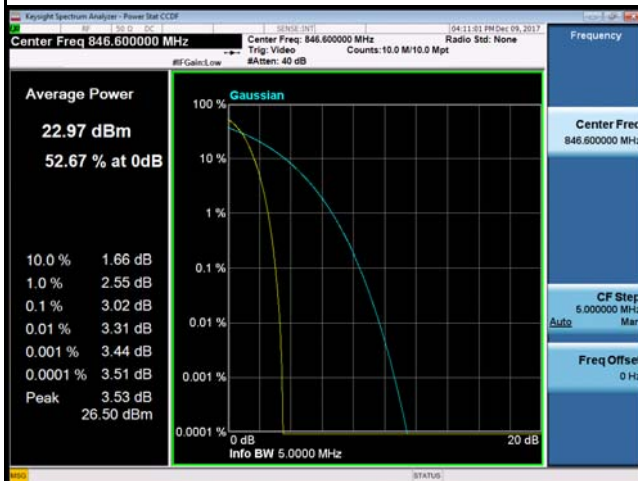
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4182



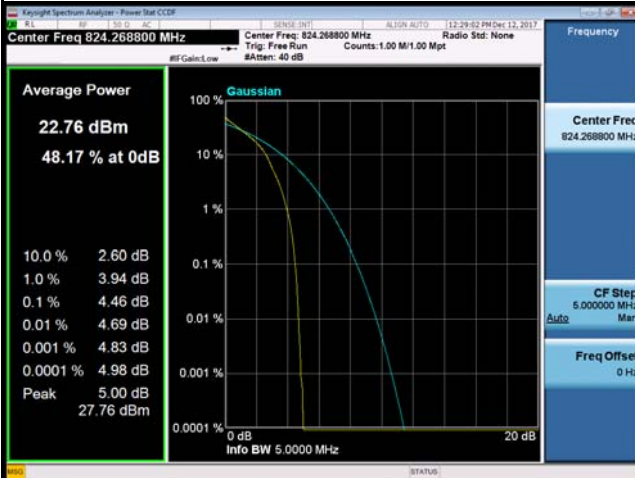
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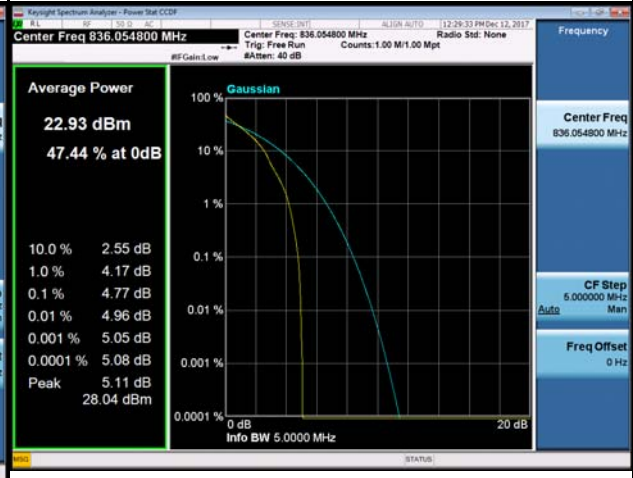


LTE Band 5 Spectrum Plot_1.4M

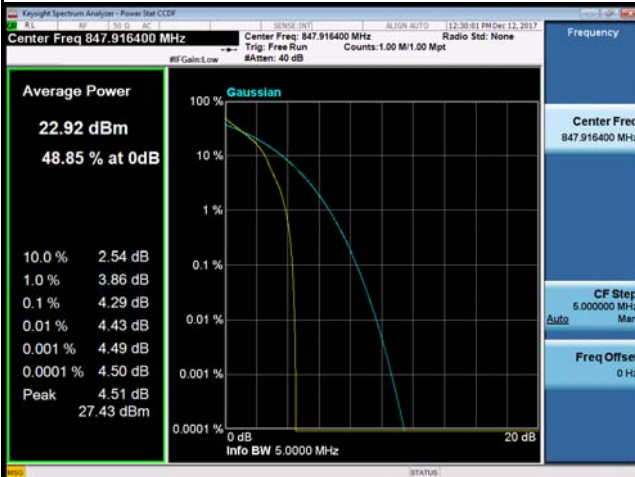
QPSK-20407



QPSK-20525



QPSK-20643



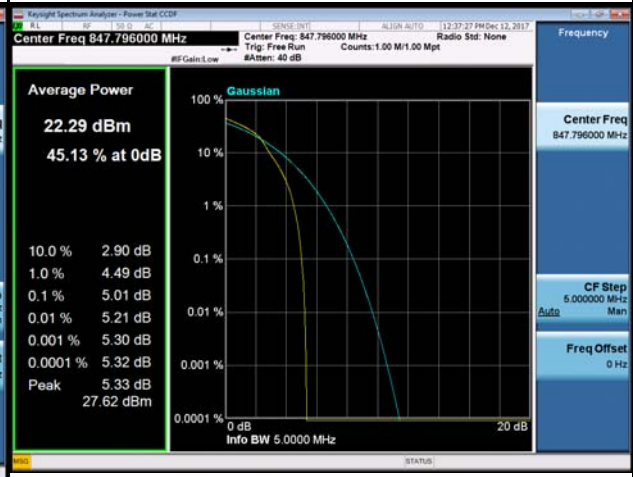
16QAM-20407



16QAM-20525

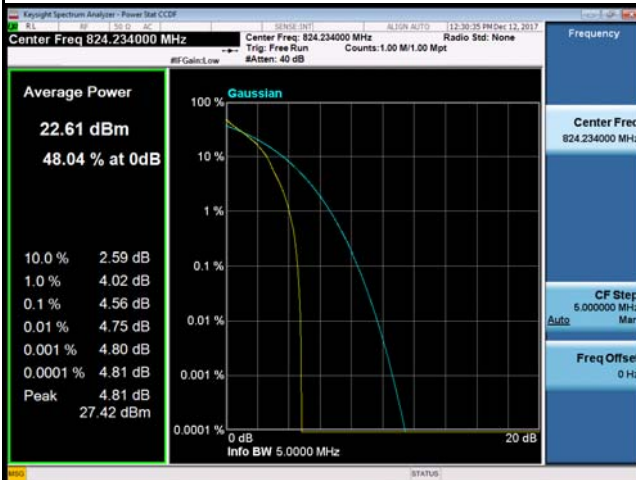


16QAM-20643

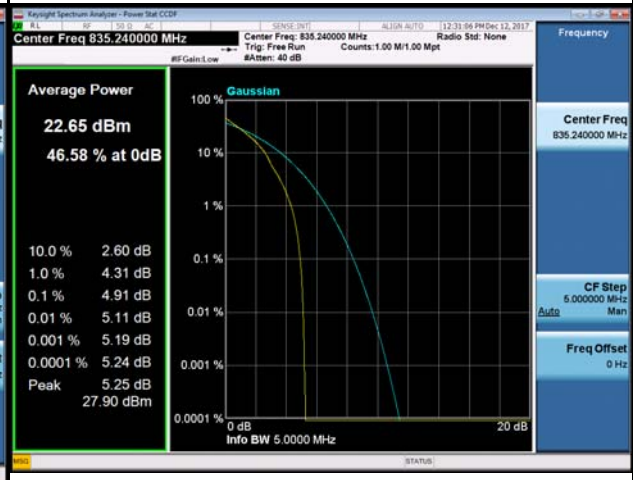


LTE Band 5 Spectrum Plot_3M

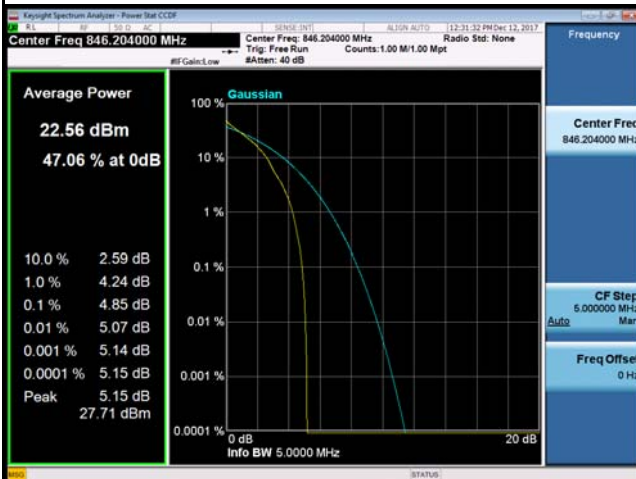
QPSK-20415



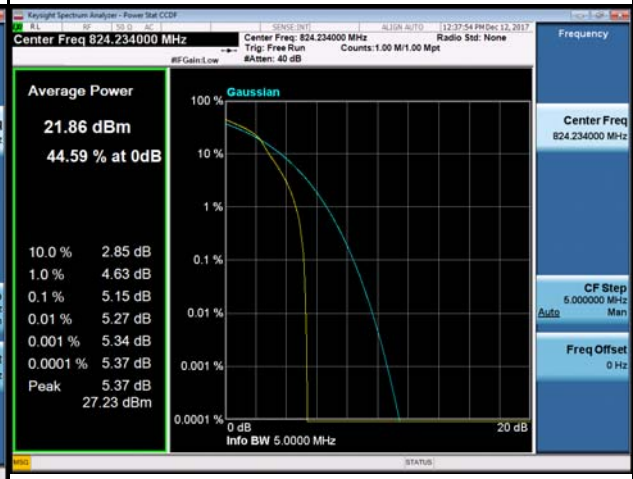
QPSK-20525



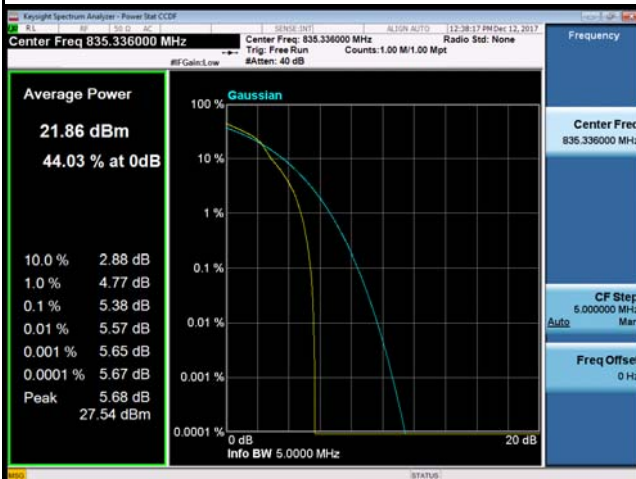
QPSK-20635



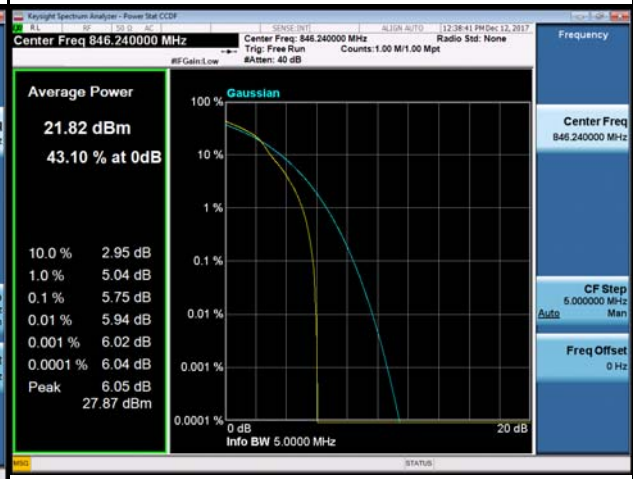
16QAM-20415



16QAM-20525

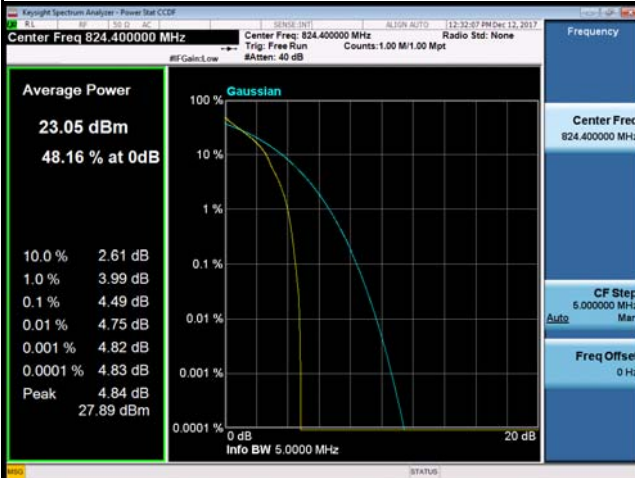


16QAM-20635

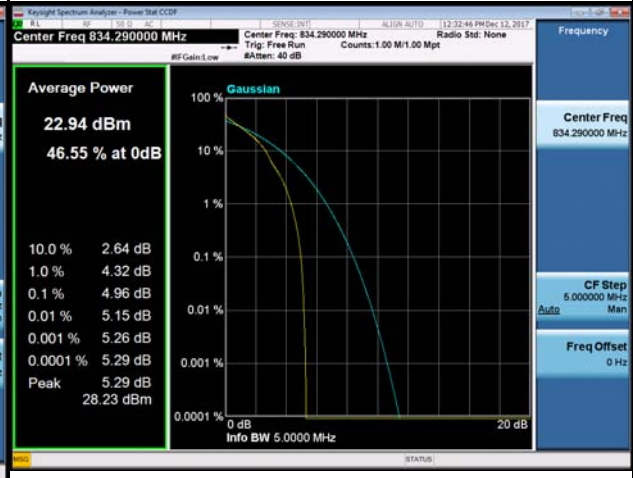


LTE Band 5 Spectrum Plot_5M

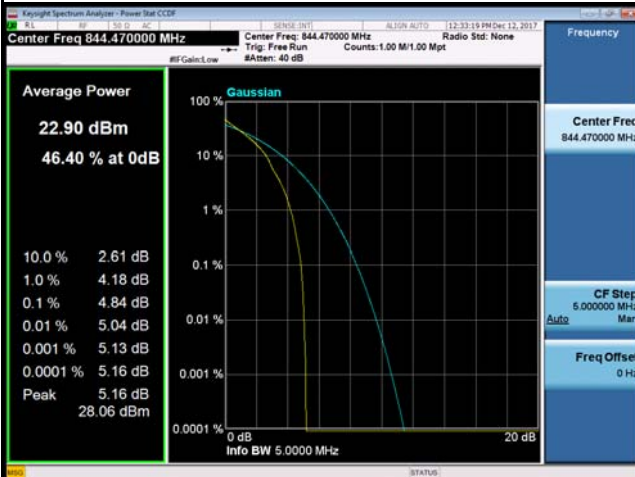
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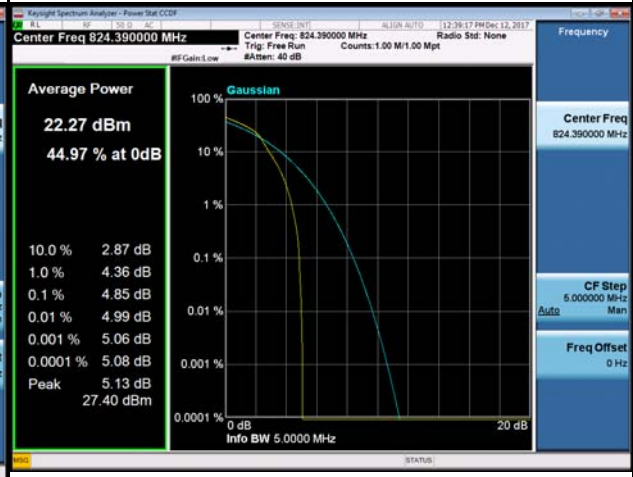
QPSK-20525



QPSK-20625



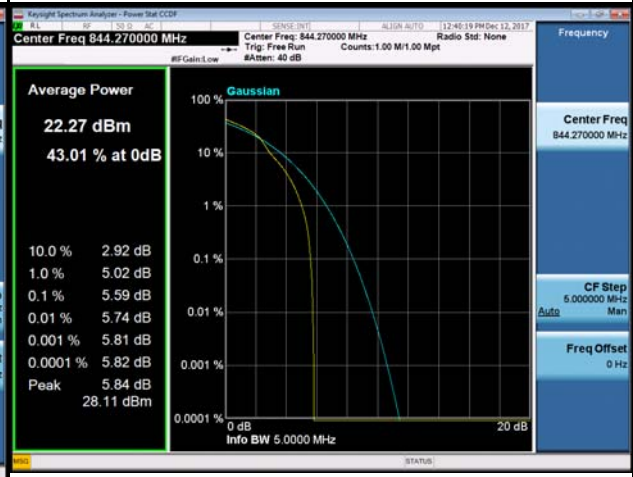
16QAM-20425



16QAM-20525

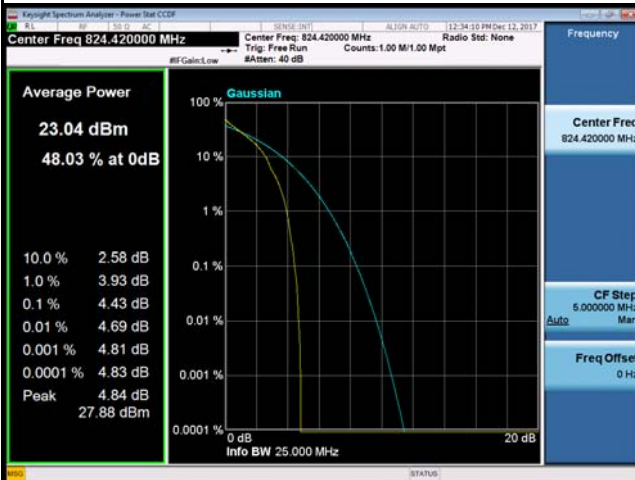


16QAM-20625

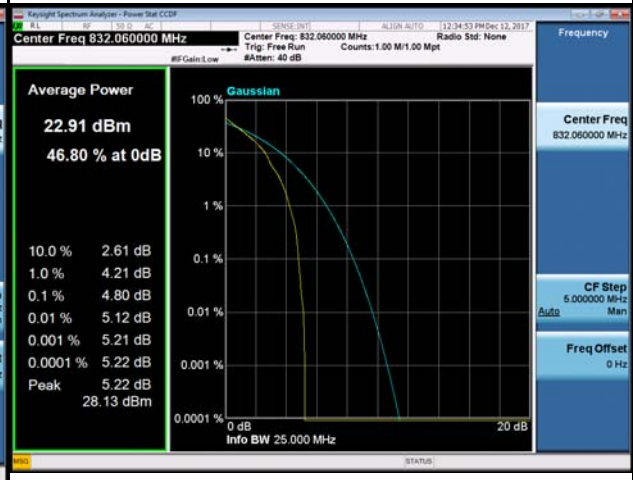


LTE Band 5 Spectrum Plot_10M

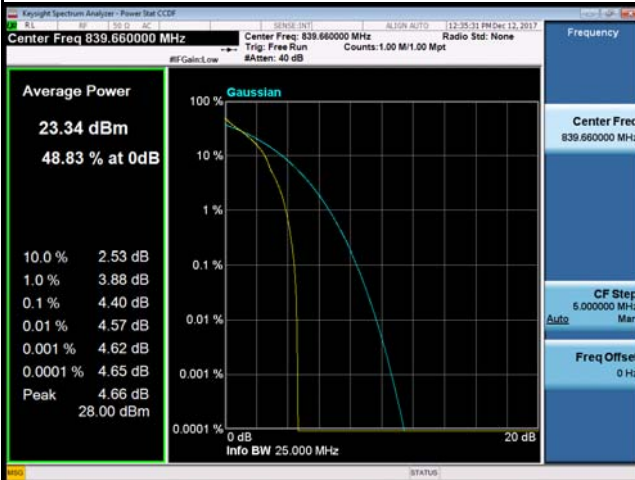
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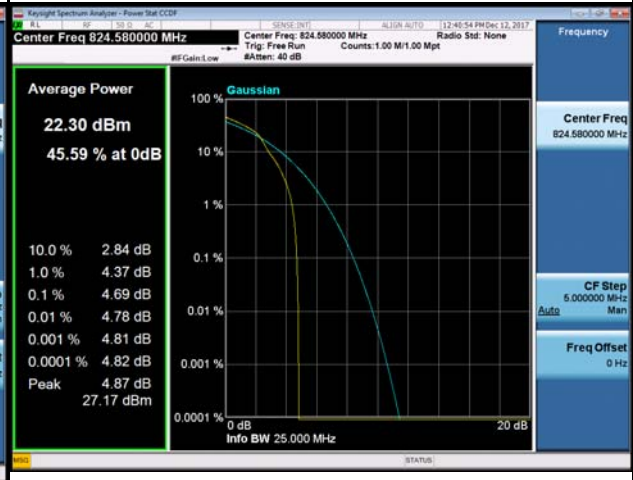
QPSK-20525



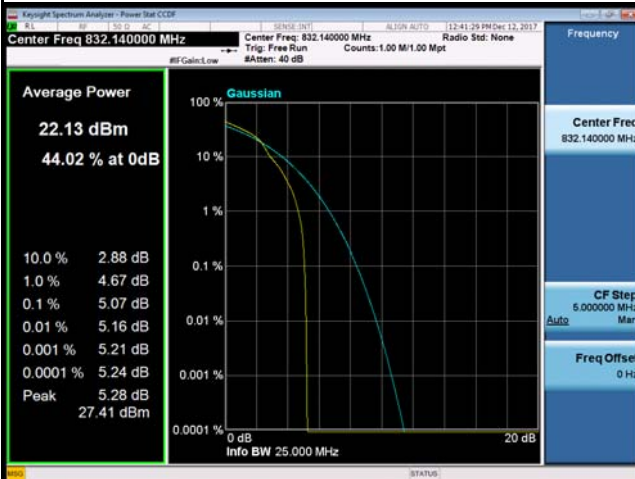
QPSK-20600



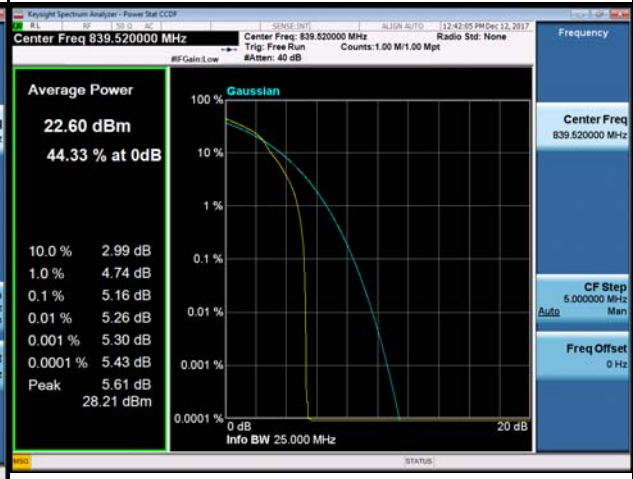
16QAM-20450



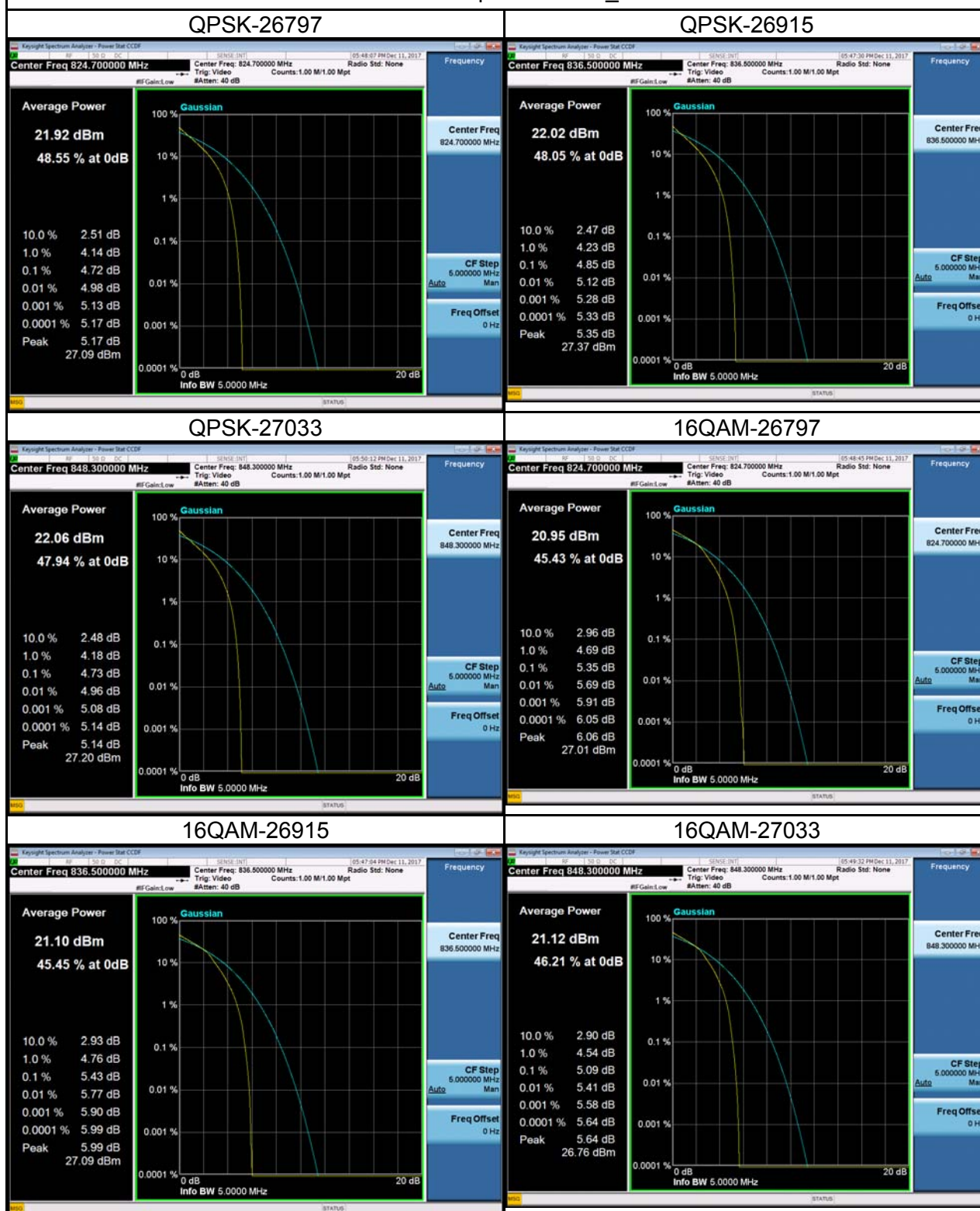
16QAM-20525



16QAM-20600

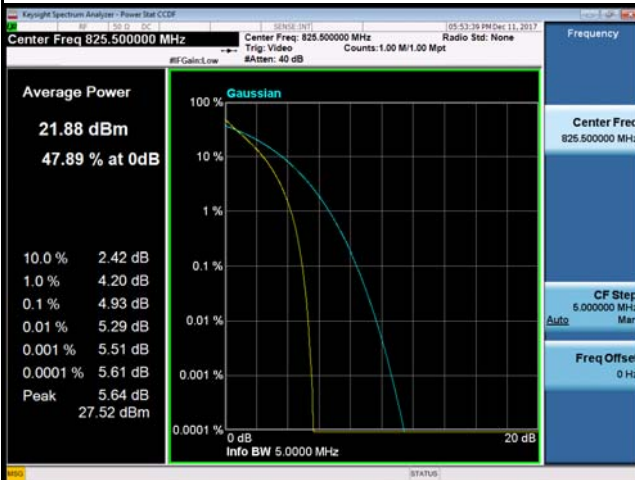


LTE Band 26 Spectrum Plot_1.4M

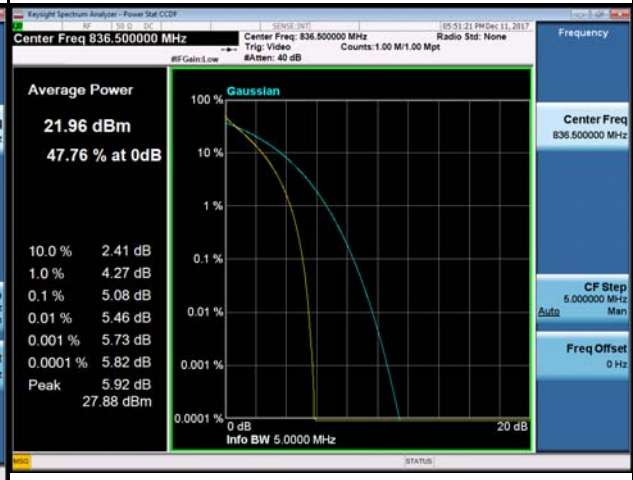


LTE Band 26 Spectrum Plot_3M

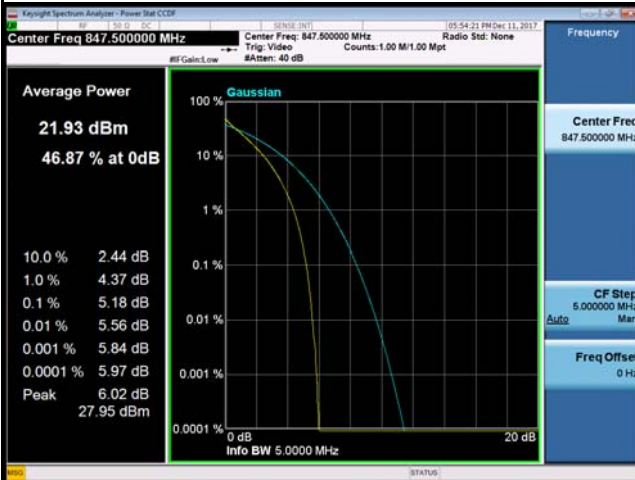
QPSK-26805



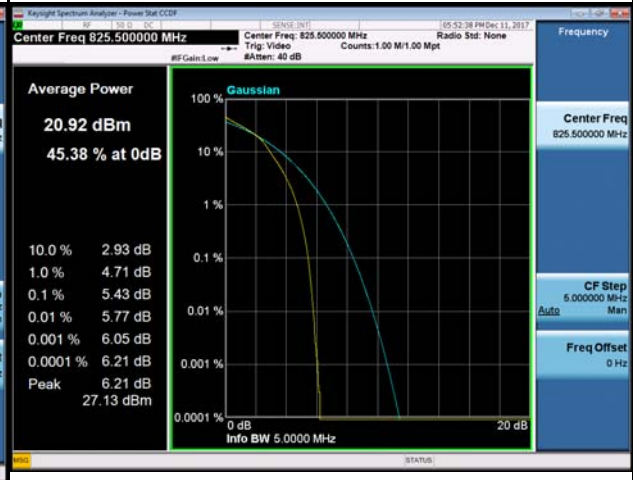
QPSK-26915



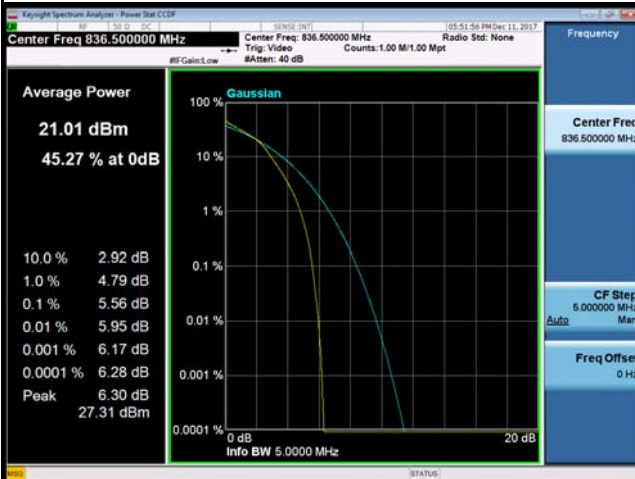
QPSK-27025



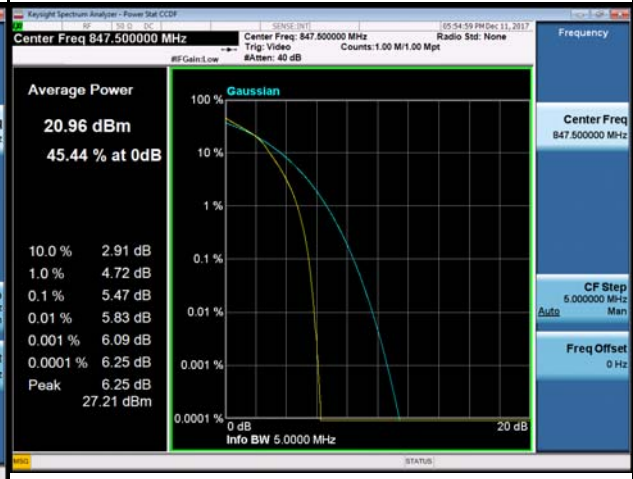
16QAM-26805



16QAM-26915

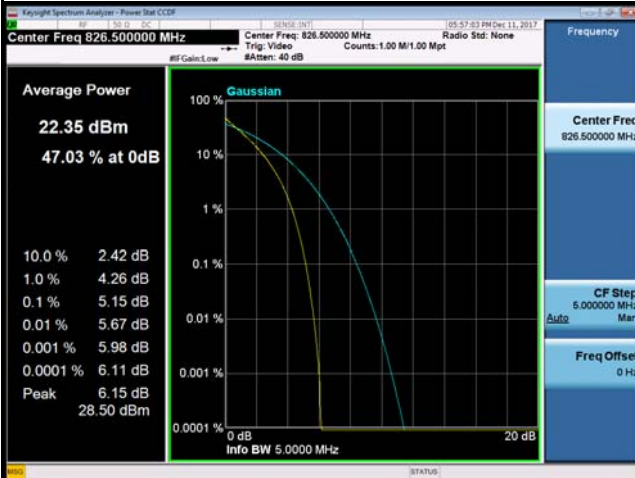


16QAM-27025

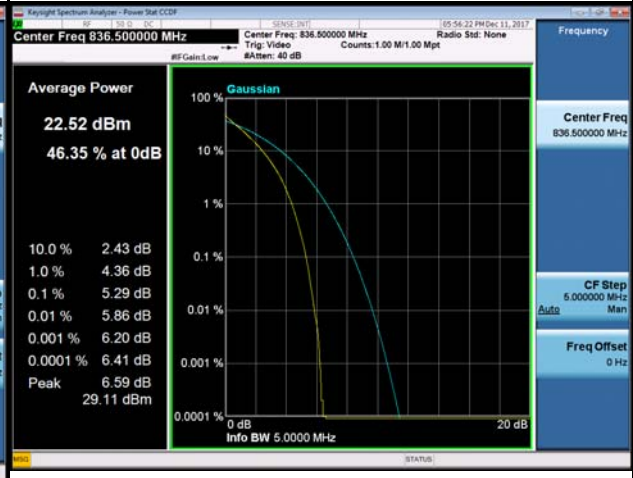


LTE Band 26 Spectrum Plot_5M

QPSK-26815



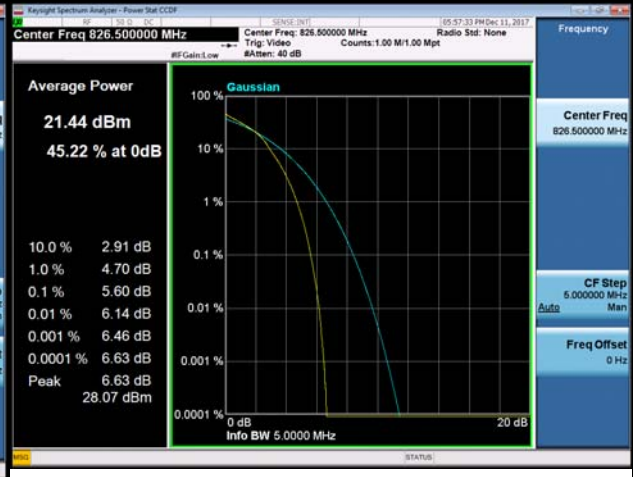
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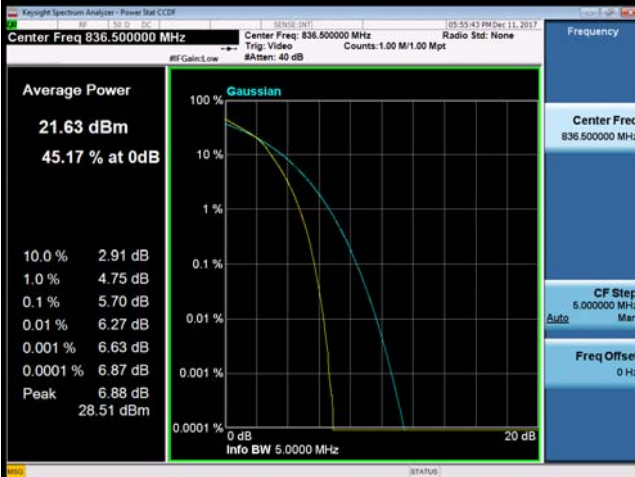
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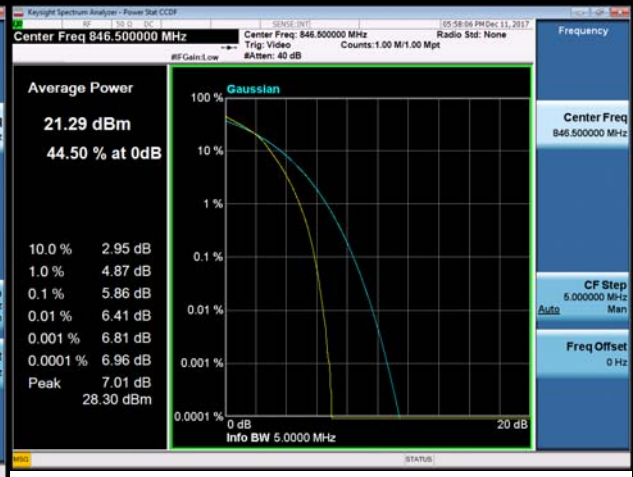
16QAM-26815



16QAM-26915

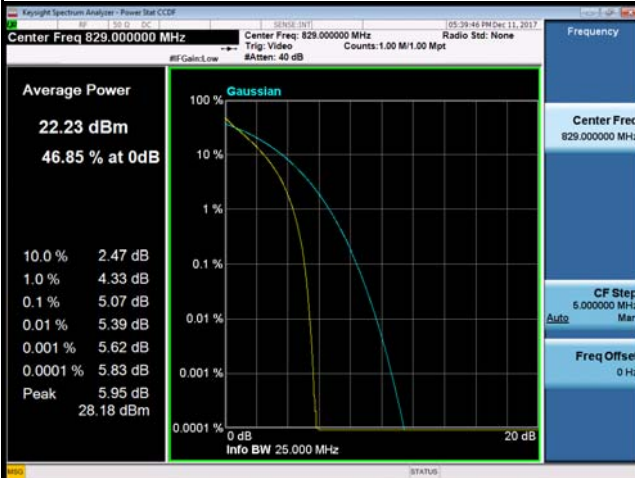


16QAM-27015

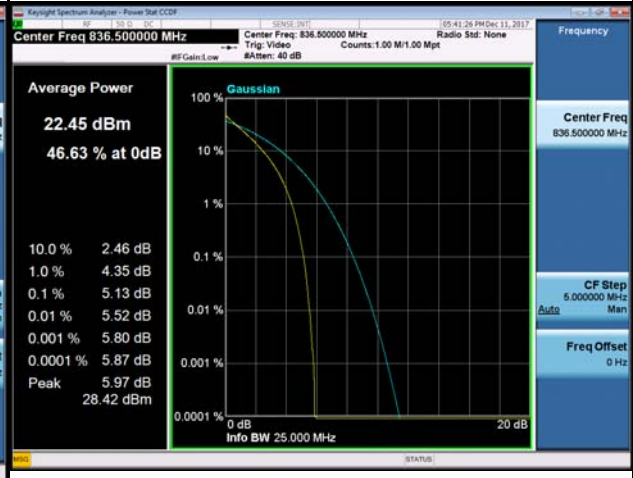


LTE Band 26 Spectrum Plot_10M

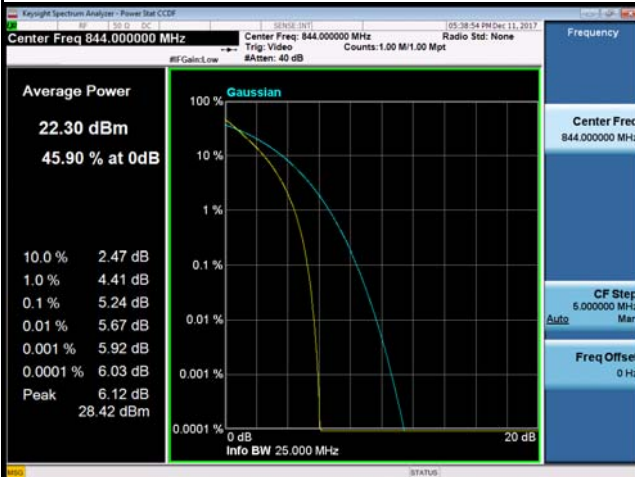
QPSK-26840



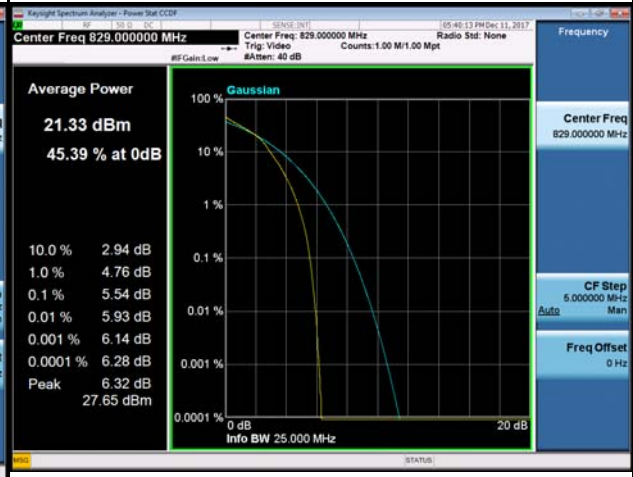
QPSK-26915



QPSK-26990



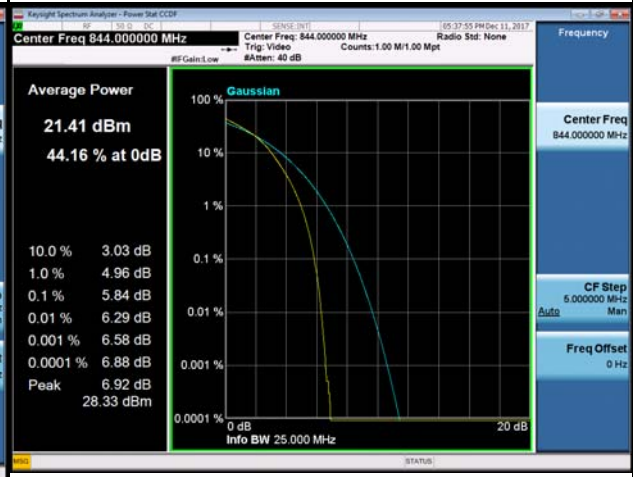
16QAM-26840



16QAM-26915

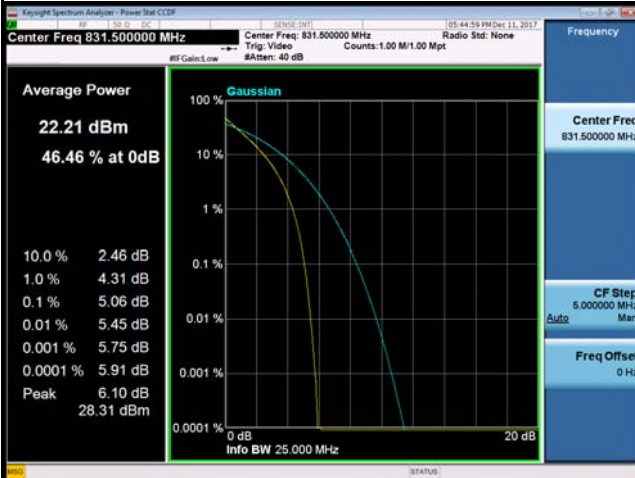


16QAM-26990

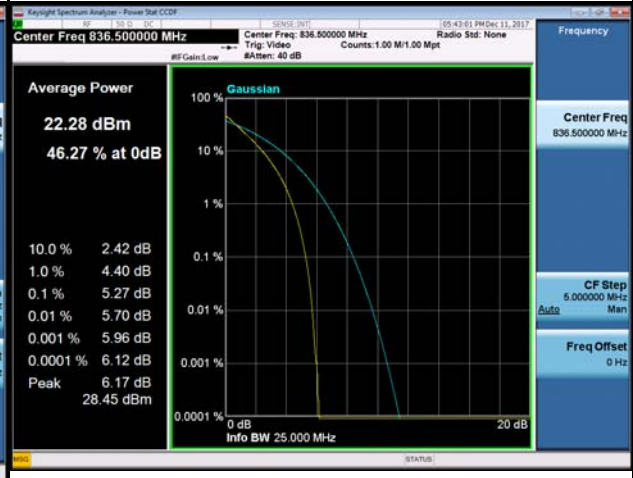


LTE Band 26 Spectrum Plot_15M

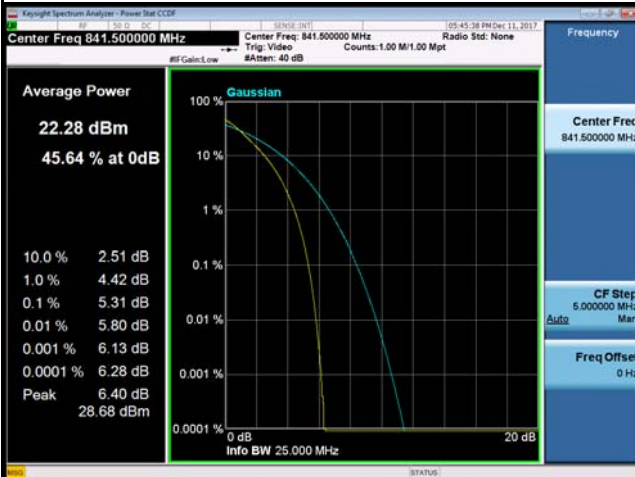
QPSK-26865



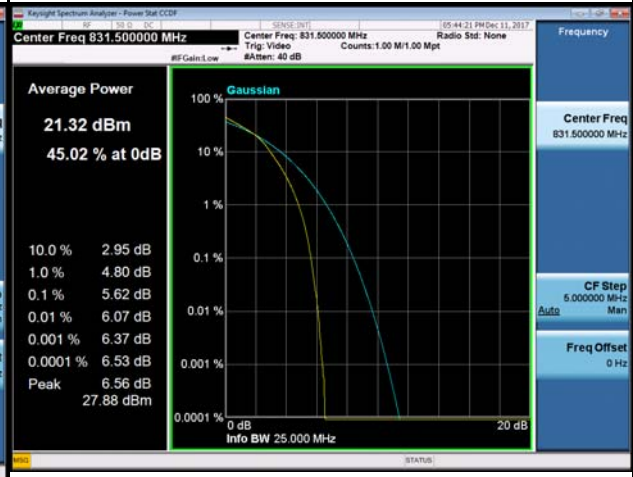
QPSK-26915



QPSK-26965



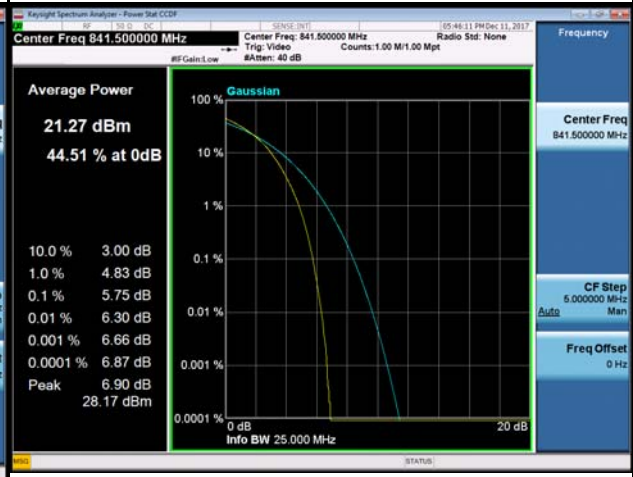
16QAM-26865



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
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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