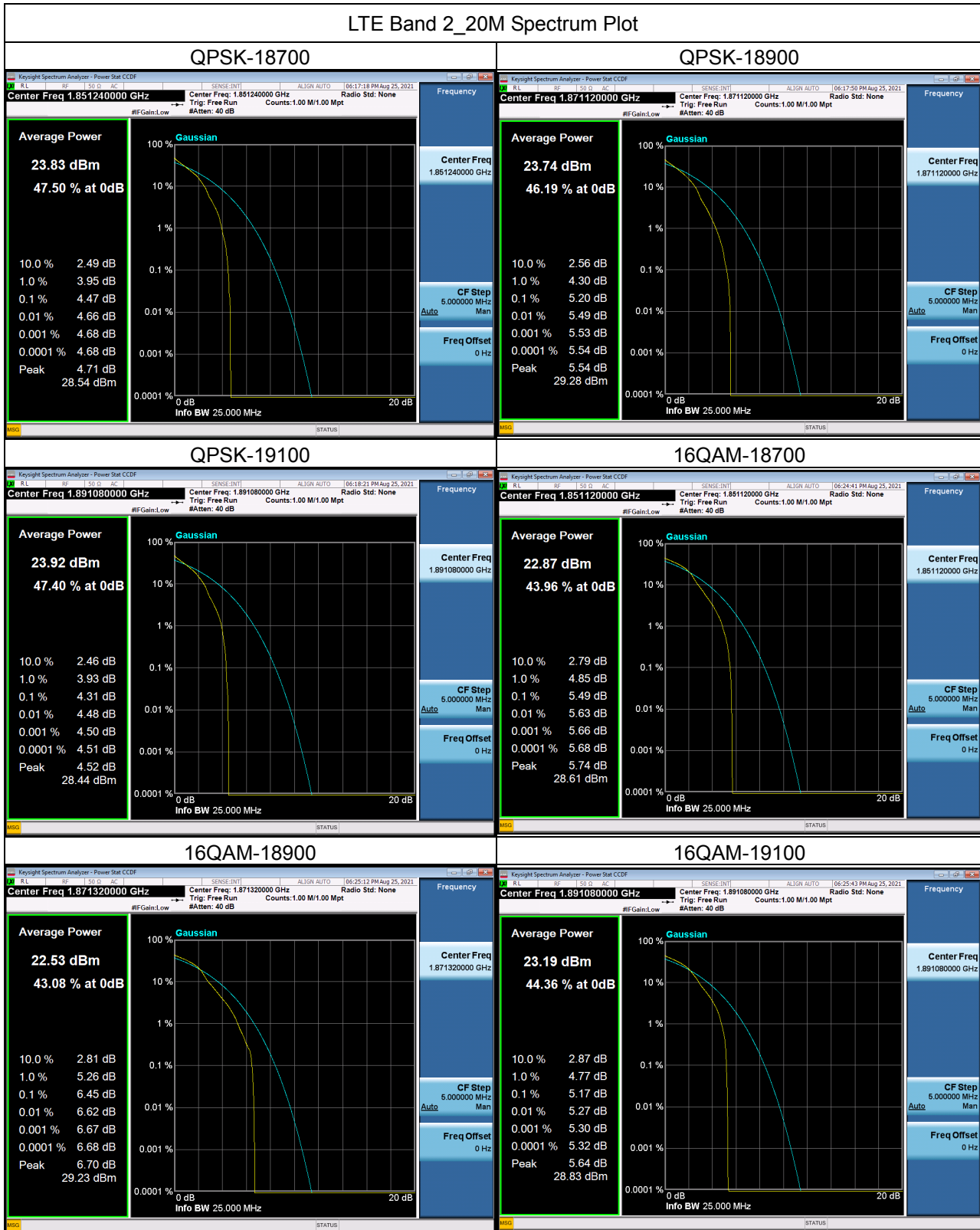
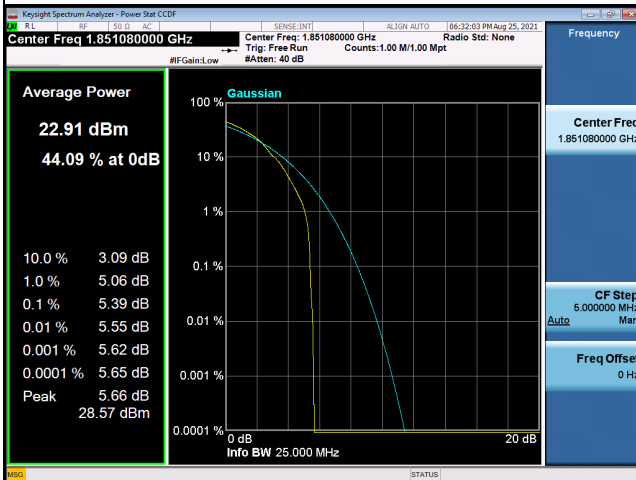


## LTE Band 2\_20M Spectrum Plot

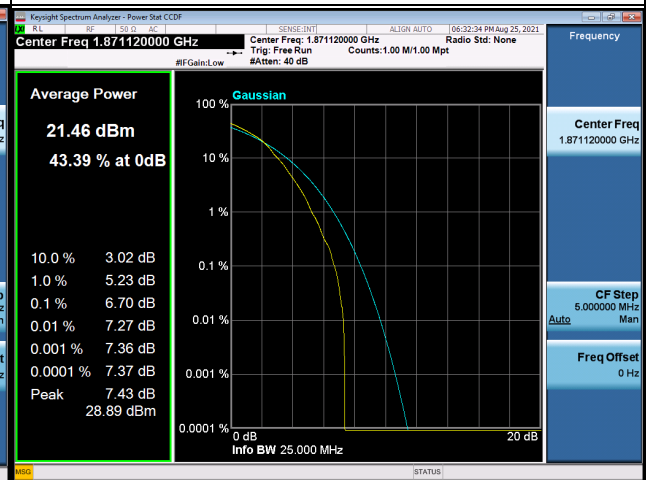


## LTE Band 2\_20M Spectrum Plot

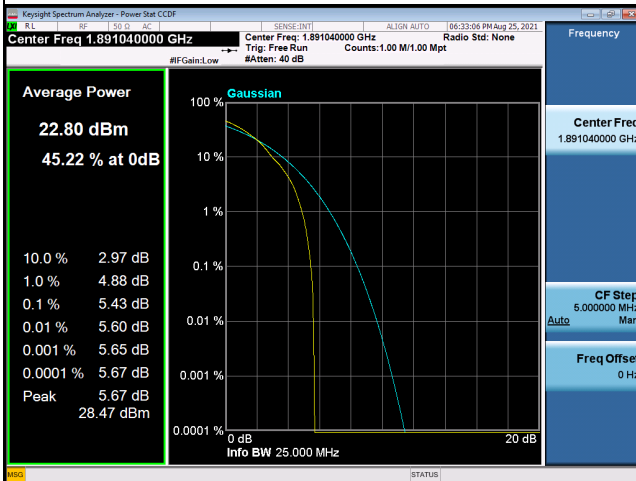
### 64QAM-18700



### 64QAM-18900



### 64QAM-19100



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## APPENDIX I - FREQUENCY STABILITY

Test Mode	PCS1900_CH661
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.6	0.001914894	±2.5
-20	4.26	0.002265957	
-10	3.64	0.00193617	
0	6.33	0.003367021	
10	6.15	0.003271277	
20	5.26	0.002797872	
30	8.33	0.004430851	
40	7.33	0.003898936	
50	6.26	0.003329787	
Max. Deviation (ppm)	8.33	0.004430851	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	4.33	0.002303191	±2.5
3.87	3.26	0.001734043	
3.60	3.55	0.001888298	
Max. Deviation (ppm)	4.33	0.002303191	

Test Mode	WCDMA Band II_CH9400
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.26	0.003329787	±2.5
-20	2.26	0.001202128	
-10	8.63	0.004590426	
0	3.66	0.001946809	
10	4.26	0.002265957	
20	3.26	0.001734043	
30	6.26	0.003329787	
40	4.26	0.002267553	
50	3.55	0.001888298	
Max. Deviation (ppm)	8.63	0.004590426	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.26	0.001734043	±2.5
3.87	3.21	0.001707447	
3.60	5.33	0.002835106	
Max. Deviation (ppm)	5.33	0.002835106	

Test Mode	LTE Band 2_CH18900_1.4M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.65	0.001409574	±2.5
-20	-7.08	-0.003765957	
-10	3.89	0.002069149	
0	-5.97	-0.003175532	
10	-5.29	-0.00281383	
20	2.94	0.00156383	
30	6.35	0.00337766	
40	2.58	0.00137234	
50	-3.69	-0.001962766	
Max. Deviation (ppm)	-7.08	-0.003765957	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-3.64	-0.00193617	±2.5
3.87	-4.38	-0.002329787	
3.60	-6.18	-0.003287234	
Max. Deviation (ppm)	-6.18	-0.003287234	

Test Mode	LTE Band 2_CH18900_3M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.06	-0.00162766	±2.5
-20	-7.51	-0.003994681	
-10	-6.92	-0.003680851	
0	4.43	0.002356383	
10	-4.57	-0.002430851	
20	8.73	0.004643617	
30	7.35	0.003909574	
40	3.45	0.001835106	
50	-5.87	-0.00312234	
Max. Deviation (ppm)	8.73	0.004643617	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	2.55	0.001356383	±2.5
3.87	-6.14	-0.003265957	
3.60	-1.01	-0.000537234	
Max. Deviation (ppm)	-6.14	-0.003265957	

Test Mode	LTE Band 2_CH18900_5M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.25	0.000664894	±2.5
-20	6.20	0.003297872	
-10	-2.66	-0.001414894	
0	-8.64	-0.004595745	
10	-2.04	-0.001085106	
20	-7.66	-0.004074468	
30	-3.62	-0.001925532	
40	-3.38	-0.001797872	
50	-1.71	-0.000909574	
Max. Deviation (ppm)	-8.64	-0.004595745	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-7.76	-0.00412766	±2.5
3.87	1.97	0.001047872	
3.60	-1.57	-0.000835106	
Max. Deviation (ppm)	-7.76	-0.00412766	



Test Mode	LTE Band 2_CH18900_10M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.56	-0.001361702	±2.5
-20	-4.59	-0.002441489	
-10	-2.75	-0.001462766	
0	-3.86	-0.002053191	
10	4.47	0.00237766	
20	2.23	0.00118617	
30	4.56	0.002425532	
40	-6.71	-0.003569149	
50	-7.96	-0.004234043	
Max. Deviation (ppm)	-7.96	-0.004234043	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-7.63	-0.004058511	±2.5
3.87	2.81	0.001494681	
3.60	3.87	0.002058511	
Max. Deviation (ppm)	-7.63	-0.004058511	

Test Mode	LTE Band 2_CH18900_15M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.06	0.003223404	±2.5
-20	-8.38	-0.004457447	
-10	-4.45	-0.002367021	
0	-8.81	-0.00468617	
10	-4.75	-0.002526596	
20	-6.41	-0.003409574	
30	-4.25	-0.002260638	
40	-3.28	-0.001744681	
50	1.84	0.000978723	
Max. Deviation (ppm)	-8.81	-0.00468617	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-6.79	-0.003611702	±2.5
3.87	6.26	0.003329787	
3.60	-2.52	-0.001340426	
Max. Deviation (ppm)	-6.79	-0.003611702	

Test Mode	LTE Band 2_CH18900_20M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.62	0.001393617	±2.5
-20	-5.78	-0.003074468	
-10	-7.24	-0.003851064	
0	-3.39	-0.001803191	
10	-4.42	-0.002351064	
20	-3.46	-0.001840426	
30	-6.05	-0.003218085	
40	5.38	0.002861702	
50	-4.62	-0.002457447	
Max. Deviation (ppm)	-7.24	-0.003851064	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	5.29	0.00281383	±2.5
3.87	3.69	0.001962766	
3.60	3.51	0.001867021	
Max. Deviation (ppm)	5.29	0.00281383	

End of Test Report