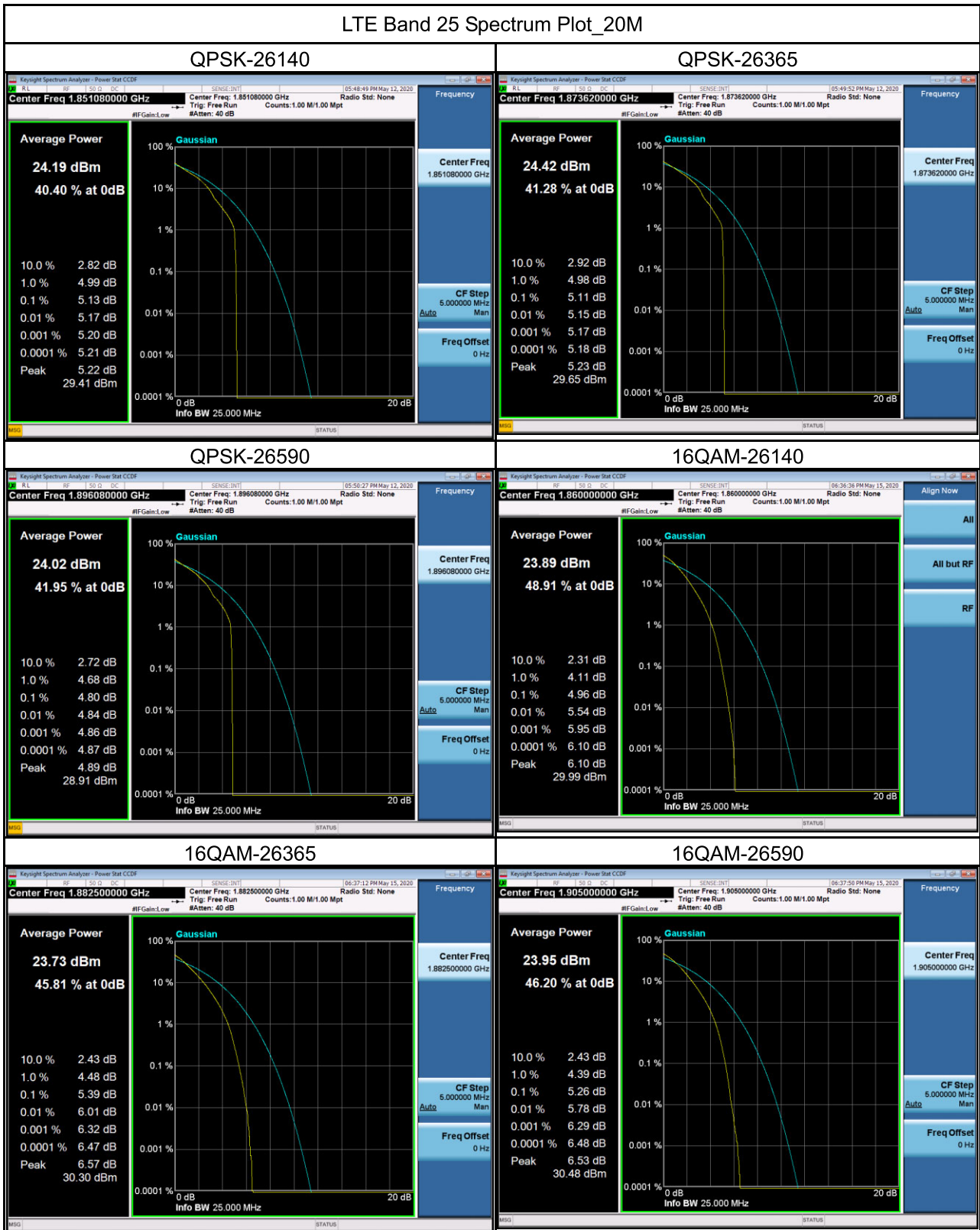


## LTE Band 25 Spectrum Plot\_15M



## LTE Band 25 Spectrum Plot\_20M



## APPENDIX I - FREQUENCY STABILITY

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

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	3.64	0.001936923	±2.5
-10	5.38	0.002863436	
0	3.86	0.002054669	
10	5.95	0.003163395	
20	-3.08	0.001638783	
30	-3.37	0.001794229	
40	4.71	0.002503771	
50	-2.02	0.001074163	
Max. Deviation (ppm)	5.95	0.003163395	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	2.76	0.001468085	±2.5
3.80	3.08	0.001638298	
4.20	3.72	0.001978723	
Max. Deviation (ppm)	3.72	0.001978723	

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)
-20	-5.65	-0.003005319	±2.5
-10	4.43	0.002356383	
0	-1.51	-0.000803191	
10	4.81	0.002558511	
20	-2.41	-0.001281915	
30	-2.99	-0.001590426	
40	-3.78	-0.002010638	
50	-1.32	-0.000702128	
Max. Deviation (ppm)	-5.65	-0.003005319	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-3.71	-0.001973404	±2.5
3.80	4.87	0.002590426	
4.20	-5.17	-0.00275	
Max. Deviation (ppm)	-5.17	-0.00275	

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)
-20	3.55	0.001888298	±2.5
-10	3.78	0.002010638	
0	-5.39	-0.002867021	
10	1.64	0.00087234	
20	2.17	0.001154255	
30	-0.53	-0.000281915	
40	-2.95	-0.001569149	
50	0.90	0.000478723	
Max. Deviation (ppm)	-5.39	-0.002867021	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	2.26	0.001202128	±2.5
3.80	-5.82	-0.003095745	
4.20	-5.91	-0.003143617	
Max. Deviation (ppm)	-5.91	-0.003143617	

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)
-20	4.77	0.002537234	±2.5
-10	-1.57	-0.000835106	
0	-0.22	-0.000117021	
10	-5.09	-0.002707447	
20	-3.95	-0.002101064	
30	-5.52	-0.00293617	
40	-2.25	-0.001196809	
50	0.84	0.000446809	
Max. Deviation (ppm)	-5.52	-0.00293617	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	0.21	0.000111702	±2.5
3.80	-1.04	-0.000553191	
4.20	-3.09	-0.001643617	
Max. Deviation (ppm)	-3.09	-0.001643617	

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)
-20	0.36	0.000191489	±2.5
-10	3.56	0.001893617	
0	-3.61	-0.001920213	
10	-0.65	-0.000345745	
20	-0.18	-9.57447E-05	
30	4.55	0.002420213	
40	-1.04	-0.000553191	
50	4.70	0.0025	
Max. Deviation (ppm)	4.7	0.0025	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-0.93	-0.000494681	±2.5
3.80	-1.33	-0.000707447	
4.20	-2.21	-0.001175532	
Max. Deviation (ppm)	-2.21	-0.001175532	

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)
-20	2.68	0.001425532	±2.5
-10	1.78	0.000946809	
0	-3.31	-0.001760638	
10	3.46	0.001840426	
20	3.55	0.001888298	
30	2.45	0.001303191	
40	1.94	0.001031915	
50	-3.79	-0.002015957	
Max. Deviation (ppm)	-3.79	-0.002015957	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	4.46	0.00237234	±2.5
3.80	4.87	0.002590426	
4.20	2.69	0.001430851	
Max. Deviation (ppm)	4.87	0.002590426	

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)
-20	-5.50	-0.002925532	±2.5
-10	5.70	0.003031915	
0	1.05	0.000558511	
10	2.94	0.00156383	
20	-3.00	-0.001595745	
30	0.38	0.000202128	
40	5.19	0.002760638	
50	5.78	0.003074468	
Max. Deviation (ppm)	5.78	0.003074468	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	3.81	0.002026596	±2.5
3.80	0.34	0.000180851	
4.20	1.10	0.000585106	
Max. Deviation (ppm)	3.81	0.002026596	

Test Mode:	LTE Band 25_CH26365_1.4M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	-2.24	-0.002677824	±2.5
-10	-4.83	-0.005774059	
0	-5.11	-0.006108787	
10	0.50	0.000597729	
20	-0.05	-5.97729E-05	
30	-0.70	-0.00083682	
40	-2.09	-0.002498506	
50	-4.71	-0.005630604	
Max. Deviation (ppm)	-5.11	-0.006108787	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-5.56	-0.006646742	±2.5
3.80	-2.55	-0.003048416	
4.20	-4.23	-0.005056784	
Max. Deviation (ppm)	-5.56	-0.006646742	

Test Mode:	LTE Band 25_CH26365_3M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	-2.70	-0.00322773	±2.5
-10	-5.21	-0.00622833	
0	2.41	0.002881052	
10	5.82	0.006957561	
20	-2.24	-0.00267782	
30	-0.77	-0.0009205	
40	1.82	0.002175732	
50	-1.14	-0.00136282	
Max. Deviation (ppm)	5.82	0.006957561	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-2.57	-0.00307233	±2.5
3.80	-1.83	-0.00218769	
4.20	-2.20	-0.00263001	
Max. Deviation (ppm)	-2.57	-0.00307233	



Test Mode:	LTE Band 25_CH26365_5M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	2.68	0.003203825	±2.5
-10	5.12	0.006120741	
0	-3.51	-0.004196055	
10	3.90	0.004662283	
20	2.35	0.002809325	
30	-2.90	-0.003466826	
40	4.17	0.004985057	
50	5.61	0.006706515	
Max. Deviation (ppm)	5.61	0.006706515	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	1.73	0.002068141	±2.5
3.80	2.65	0.003167962	
4.20	-2.44	-0.002916916	
Max. Deviation (ppm)	2.65	0.003167962	

Test Mode:	LTE Band 25_CH26365_10M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	1.34	0.001601913	±2.5
-10	-0.12	-0.000143455	
0	4.99	0.005965332	
10	2.96	0.003538553	
20	-1.81	-0.002163778	
30	-1.49	-0.001781231	
40	-0.72	-0.000860729	
50	2.81	0.003359235	
Max. Deviation (ppm)	4.99	0.005965332	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-1.59	-0.001900777	±2.5
3.80	5.56	0.006646742	
4.20	-3.90	-0.004662283	
Max. Deviation (ppm)	5.56	0.006646742	

Test Mode:	LTE Band 25_CH26365_15M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	3.96	0.004734	±2.5
-10	-5.89	-0.00704	
0	-3.78	-0.00452	
10	-0.15	-0.00018	
20	-2.79	-0.00334	
30	1.37	0.001638	
40	4.16	0.004973	
50	2.82	0.003371	
Max. Deviation (ppm)	-5.89	-0.00704	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	1.05	0.001255	±2.5
3.80	3.39	0.004053	
4.20	4.22	0.005045	
Max. Deviation (ppm)	4.22	0.005045	

Test Mode:	LTE Band 25_CH26365_20M
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**Temperature vs. Frequency Stability**

Temperature( °C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	1.82	0.002176	±2.5
-10	3.88	0.004638	
0	-0.35	-0.00042	
10	-5.03	-0.00601	
20	-2.98	-0.00356	
30	-5.91	-0.00707	
40	1.68	0.002008	
50	-5.43	-0.00649	
Max. Deviation (ppm)	-5.91	-0.00707	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.55	-5.25	-0.00628	±2.5
3.80	-3.49	-0.00417	
4.20	1.53	0.001829	
Max. Deviation (ppm)	-5.25	-0.00628	

End of Test Report