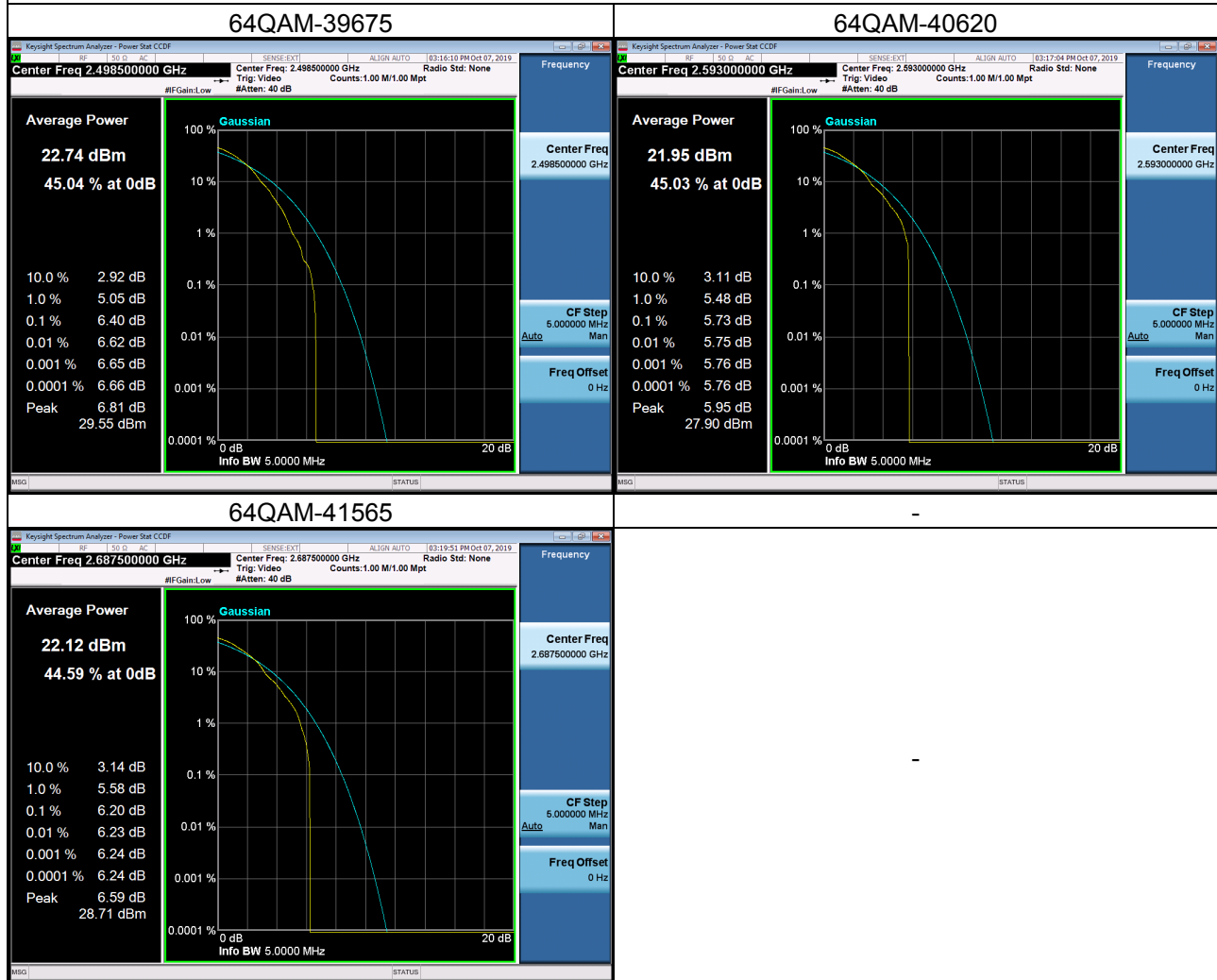


LTE Band 41_5M Spectrum Plot



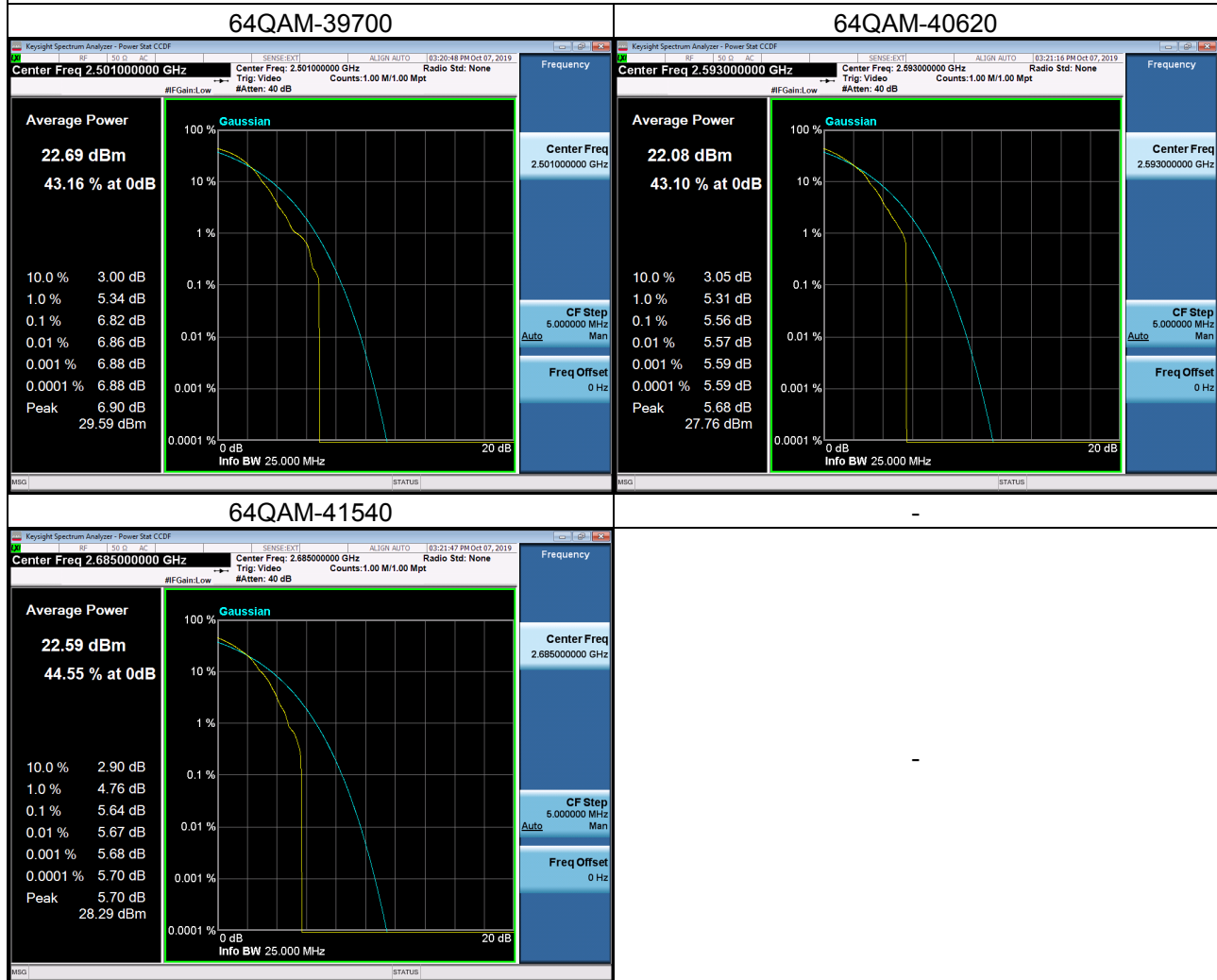
LTE Band 41_5M Spectrum Plot



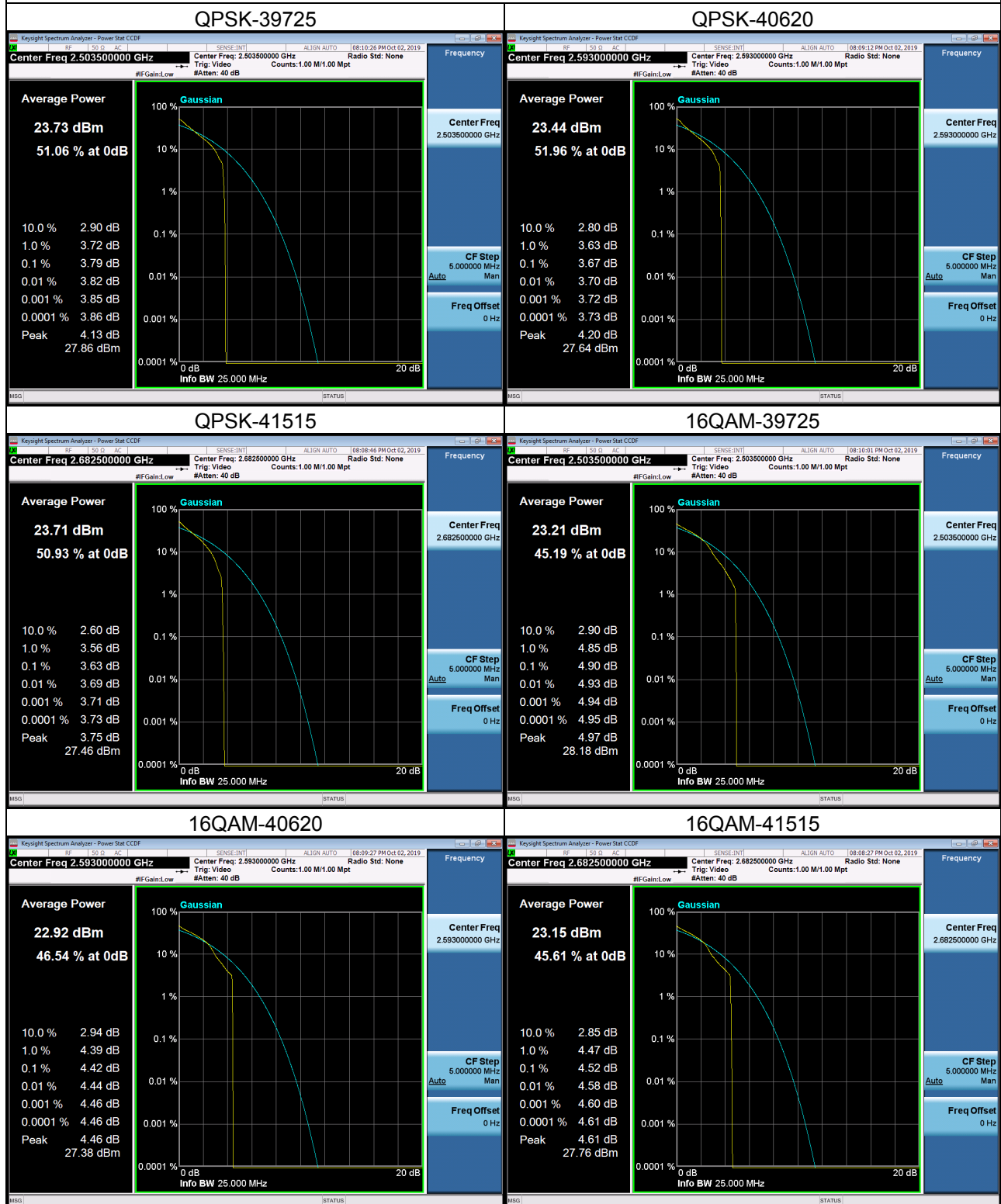
LTE Band 41_10M Spectrum Plot



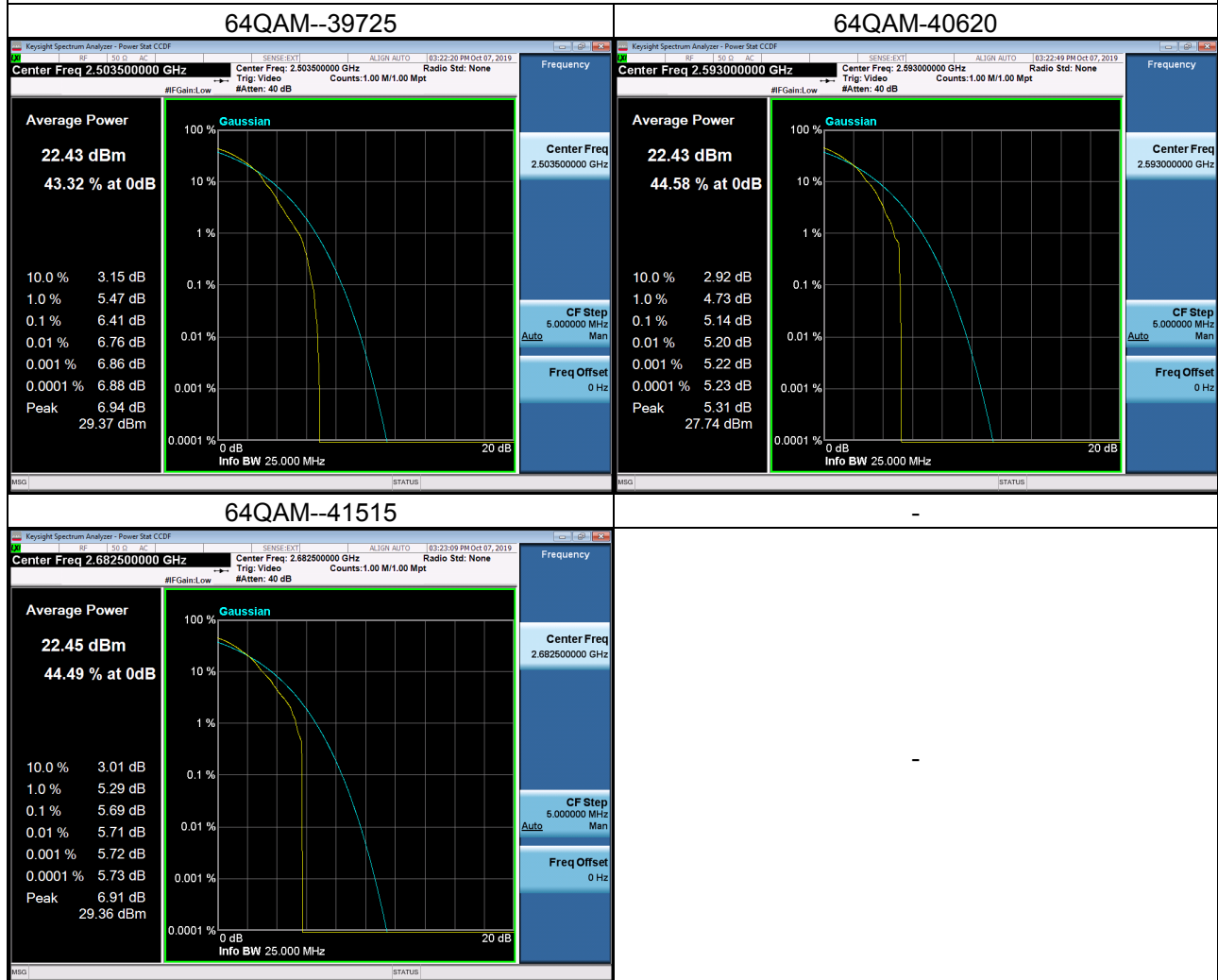
LTE Band 41_10M Spectrum Plot



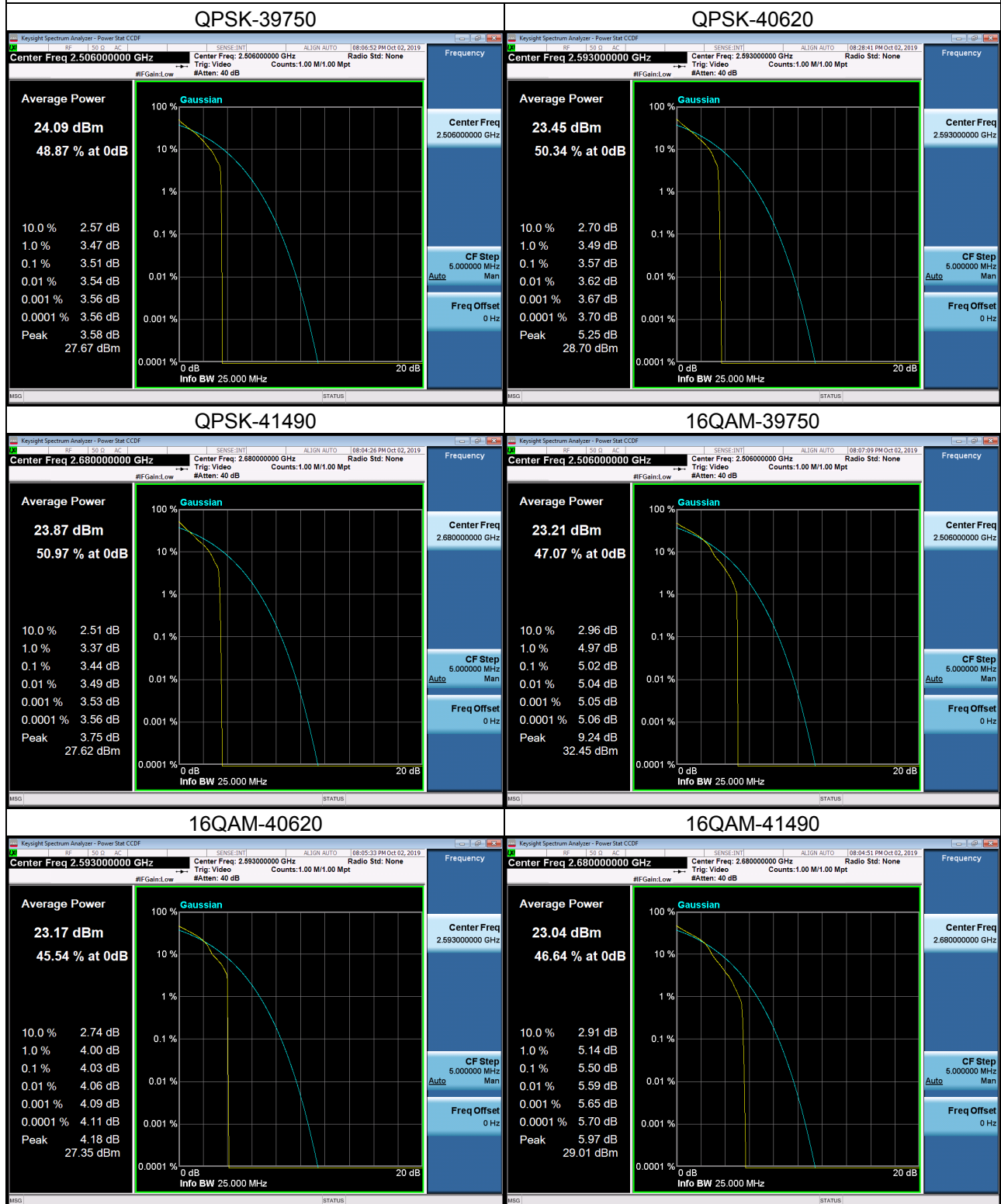
LTE Band 41_15M Spectrum Plot



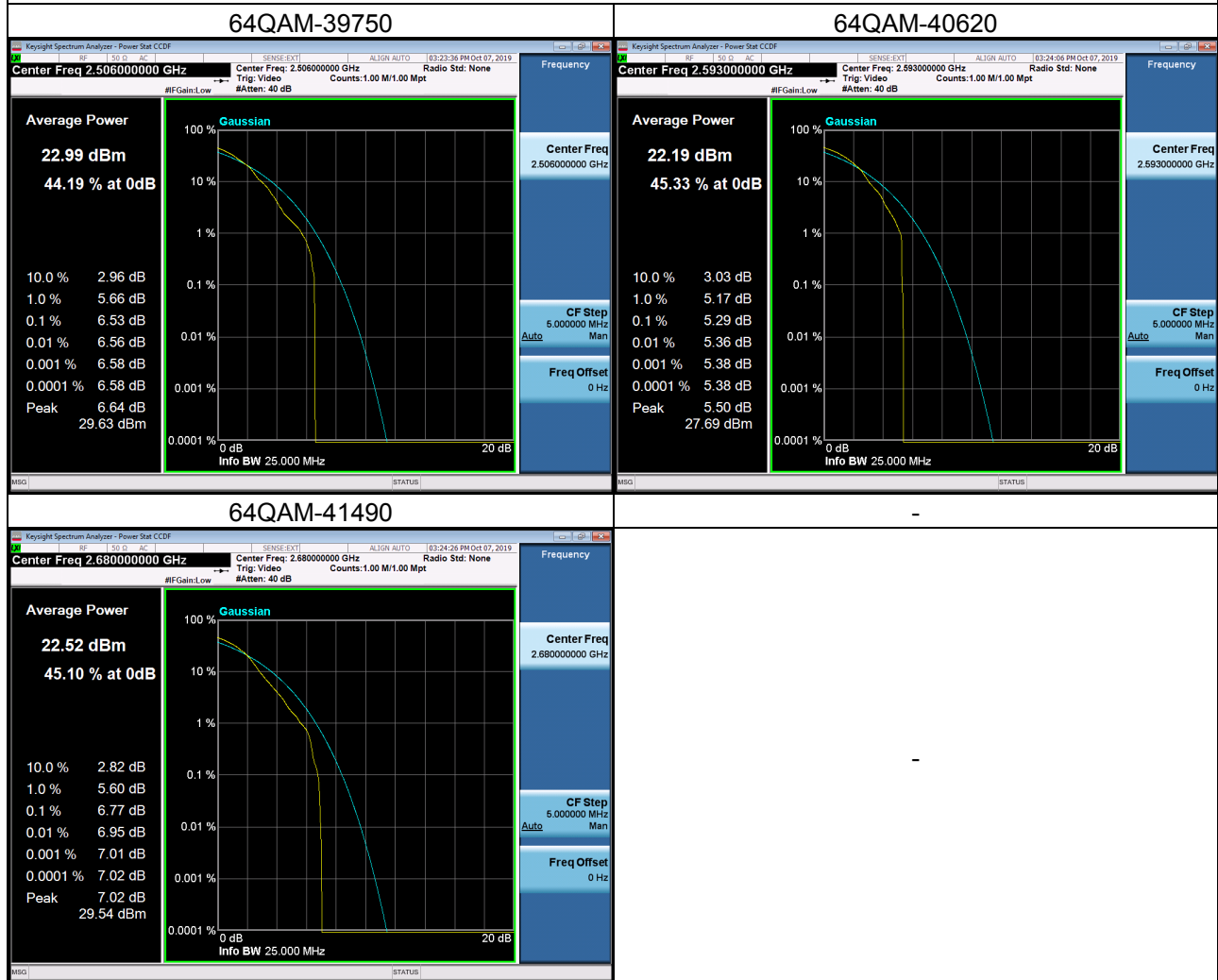
LTE Band 41_15M Spectrum Plot



LTE Band 41_20M Spectrum Plot



LTE Band 41_20M Spectrum Plot



APPENDIX I - FREQUENCY STABILITY

Test Mode	WCDMA Band IV _CH1413
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.45	0.001991227	±2.5
5	2.56	0.001477548	
15	3.69	0.002129747	
25	4.80	0.002770403	
35	5.31	0.003064758	
Max. Deviation (ppm)	5.31	0.003064758	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.59	0.00207203	±2.5
3.87	3.41	0.00196814	
3.60	5.66	0.003266767	
Max. Deviation (ppm)	5.66	0.003266767	

Test Mode	LTE Band 4_CH20175_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	7.66	0.004421356	±2.5
5	1.30	0.000750361	
15	-1.94	-0.001119769	
25	1.97	0.001137085	
35	-5.61	-0.003238095	
Max. Deviation (ppm)	7.66	0.004421356	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	1.89	0.001090909	±2.5
3.87	5.91	0.003411255	
3.60	5.87	0.003388167	
Max. Deviation (ppm)	5.91	0.003411255	

Test Mode	LTE Band 4_CH20175_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-6.47	-0.003734488	±2.5
5	-6.92	-0.003994228	
15	3.53	0.002037518	
25	3.03	0.001748918	
35	3.85	0.002222222	
Max. Deviation (ppm)	-6.92	-0.003994228	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-3.20	-0.001847042	±2.5
3.87	-3.56	-0.002054834	
3.60	0.34	0.000196248	
Max. Deviation (ppm)	-3.56	-0.002054834	

Test Mode	LTE Band 4_CH20175_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-1.88	-0.001085137	±2.5
5	7.77	0.004484848	
15	-3.43	-0.001979798	
25	-4.77	-0.002753247	
35	-4.90	-0.002828283	
Max. Deviation (ppm)	7.77	0.004484848	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-2.79	-0.00161039	±2.5
3.87	-3.37	-0.001945166	
3.60	-1.78	-0.001027417	
Max. Deviation (ppm)	-3.37	-0.001945166	

Test Mode	LTE Band 4_CH20175_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-0.97	-0.000559885	±2.5
5	0.84	0.000484848	
15	-3.40	-0.001962482	
25	4.38	0.002528139	
35	-1.09	-0.000629149	
Max. Deviation (ppm)	4.38	0.002528139	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	2.23	0.001287157	±2.5
3.87	4.41	0.002545455	
3.60	-3.49	-0.00201443	
Max. Deviation (ppm)	4.41	0.002545455	

Test Mode	LTE Band 4_CH20175_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-4.25	-0.002453102	±2.5
5	5.02	0.002897547	
15	-1.25	-0.000721501	
25	-7.75	-0.004473304	
35	-0.45	-0.00025974	
Max. Deviation (ppm)	-7.75	-0.004473304	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-4.42	-0.002551227	±2.5
3.87	1.94	0.001119769	
3.60	-0.81	-0.000467532	
Max. Deviation (ppm)	-4.42	-0.002551227	

Test Mode	LTE Band 4_CH20175_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.50	0.002020202	±2.5
5	1.89	0.001090909	
15	-5.07	-0.002926407	
25	6.53	0.00376912	
35	-3.97	-0.002291486	
Max. Deviation (ppm)	6.53	0.00376912	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.99	0.00230303	±2.5
3.87	-0.90	-0.000519481	
3.60	0.50	0.0002886	
Max. Deviation (ppm)	3.99	0.00230303	

Test Mode	LTE Band 7_CH21100_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-4.53	-0.001786982	±2.5
5	-3.89	-0.001534517	
15	1.32	0.00052071	
25	3.44	0.001357002	
35	7.22	0.002848126	
Max. Deviation (ppm)	7.22	0.002848126	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-0.42	-0.00016568	±2.5
3.87	2.70	0.001065089	
3.60	-2.23	-0.000879684	
Max. Deviation (ppm)	2.7	0.001065089	

Test Mode	LTE Band 7_CH21100_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	4.32	0.001704142	±2.5
5	-7.25	-0.002859961	
15	-7.98	-0.003147929	
25	1.50	0.000591716	
35	7.31	0.002883629	
Max. Deviation (ppm)	-7.98	-0.003147929	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-1.70	-0.000670611	±2.5
3.87	5.46	0.002153846	
3.60	-2.38	-0.000938856	
Max. Deviation (ppm)	5.46	0.002153846	

Test Mode	LTE Band 7_CH21100_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-4.56	-0.001798817	±2.5
5	7.94	0.00313215	
15	-6.12	-0.002414201	
25	-6.38	-0.002516765	
35	-3.68	-0.001451677	
Max. Deviation (ppm)	7.94	0.00313215	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	1.45	0.000571992	±2.5
3.87	1.70	0.000670611	
3.60	-2.72	-0.001072978	
Max. Deviation (ppm)	-2.72	-0.001072978	

Test Mode	LTE Band 7_CH21100_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-6.47	-0.002552268	±2.5
5	5.35	0.002110454	
15	-6.76	-0.002666667	
25	-6.91	-0.002725838	
35	5.30	0.00209073	
Max. Deviation (ppm)	-6.91	-0.002725838	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.66	0.001443787	±2.5
3.87	-3.61	-0.001424063	
3.60	-5.61	-0.002213018	
Max. Deviation (ppm)	-5.61	-0.002213018	

Test Mode	LTE Band 38_CH38000_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	2.76	0.001063584	±2.5
5	3.19	0.001229287	
15	-2.25	-0.000867052	
25	1.61	0.000620424	
35	-2.86	-0.001102119	
Max. Deviation (ppm)	3.19	0.001229287	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.87	0.001491329	±2.5
3.87	5.94	0.002289017	
3.60	4.86	0.001872832	
Max. Deviation (ppm)	5.94	0.002289017	

Test Mode	LTE Band 38_CH38000_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-3.37	-0.001298651	±2.5
5	3.73	0.00143738	
15	-2.54	-0.000978805	
25	-4.93	-0.001899807	
35	-3.93	-0.001514451	
Max. Deviation (ppm)	-4.93	-0.001899807	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-2.74	-0.001055877	±2.5
3.87	-2.08	-0.000801541	
3.60	-5.30	-0.002042389	
Max. Deviation (ppm)	-5.3	-0.002042389	

Test Mode	LTE Band 38_CH38000_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	2.06	0.000793834	±2.5
5	-1.05	-0.000404624	
15	-5.42	-0.002088632	
25	-2.78	-0.001071291	
35	-5.89	-0.00226975	
Max. Deviation (ppm)	-5.89	-0.00226975	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-0.91	-0.000350674	±2.5
3.87	-1.14	-0.000439306	
3.60	-0.67	-0.000258189	
Max. Deviation (ppm)	-1.14	-0.000439306	

Test Mode	LTE Band 38_CH38000_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	7.38	0.002843931	±2.5
5	-2.51	-0.000967245	
15	-5.18	-0.001996146	
25	7.50	0.002890173	
35	-5.47	-0.0021079	
Max. Deviation (ppm)	7.5	0.002890173	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-2.09	-0.000805395	±2.5
3.87	-3.76	-0.00144894	
3.60	-0.51	-0.000196532	
Max. Deviation (ppm)	-3.76	-0.00144894	

Test Mode	LTE Band 41_CH40620_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-6.71	-0.002587736	±2.5
5	-3.39	-0.001307366	
15	4.00	0.001542615	
25	6.86	0.002645584	
35	-7.03	-0.002711145	
Max. Deviation (ppm)	-7.03	-0.002711145	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.77	0.001453914	±2.5
3.87	-1.22	-0.000470497	
3.60	1.54	0.000593907	
Max. Deviation (ppm)	3.77	0.001453914	

Test Mode	LTE Band 41_CH40620_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-0.97	-0.000374084	±2.5
5	7.75	0.002988816	
15	0.54	0.000208253	
25	-3.97	-0.001531045	
35	-2.66	-0.001025839	
Max. Deviation (ppm)	7.75	0.002988816	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	2.54	0.00097956	±2.5
3.87	5.32	0.002051678	
3.60	-1.12	-0.000431932	
Max. Deviation (ppm)	5.32	0.002051678	

Test Mode	LTE Band 41_CH40620_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	-7.75	-0.002988816	±2.5
5	-5.62	-0.002167374	
15	5.59	0.002155804	
25	-7.70	-0.002969533	
35	7.10	0.002738141	
Max. Deviation (ppm)	-7.75	-0.002988816	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-3.55	-0.001369071	±2.5
3.87	2.16	0.000833012	
3.60	2.45	0.000944852	
Max. Deviation (ppm)	-3.55	-0.001369071	

Test Mode	LTE Band 41_CH40620_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	3.99	0.001538758	±2.5
5	-0.45	-0.000173544	
15	2.15	0.000829155	
25	2.06	0.000794447	
35	5.73	0.002209796	
Max. Deviation (ppm)	5.73	0.002209796	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	4.74	0.001827998	±2.5
3.87	4.07	0.00156961	
3.60	-0.31	-0.000119553	
Max. Deviation (ppm)	4.74	0.001827998	

End of Test Report