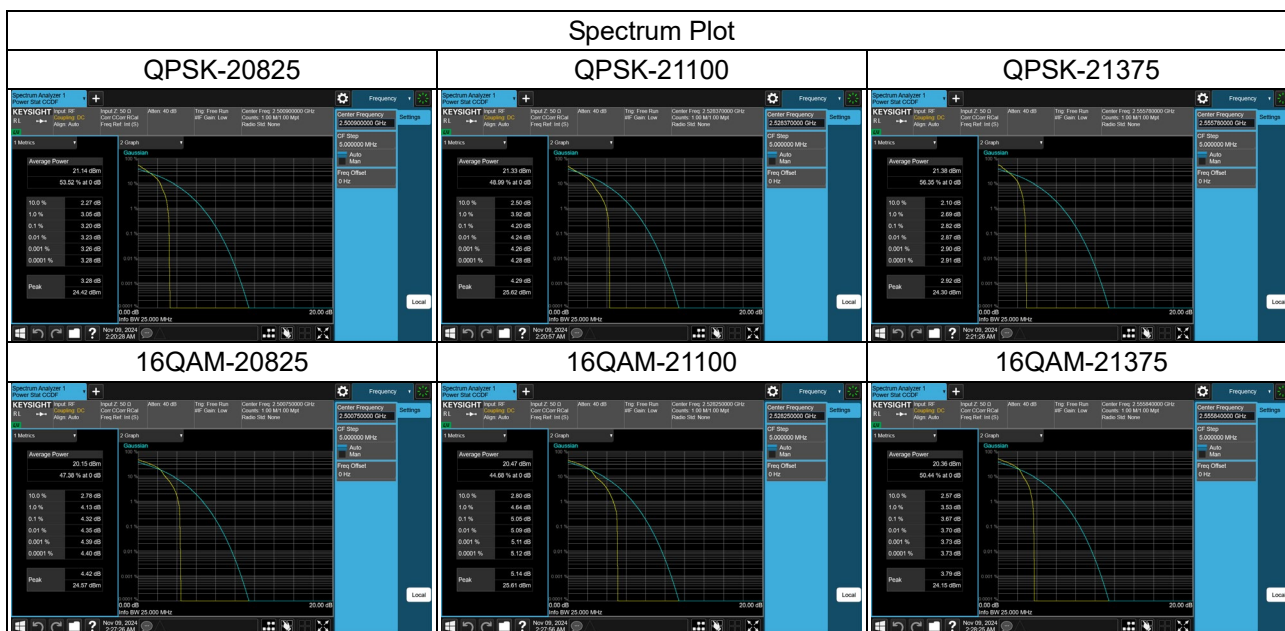
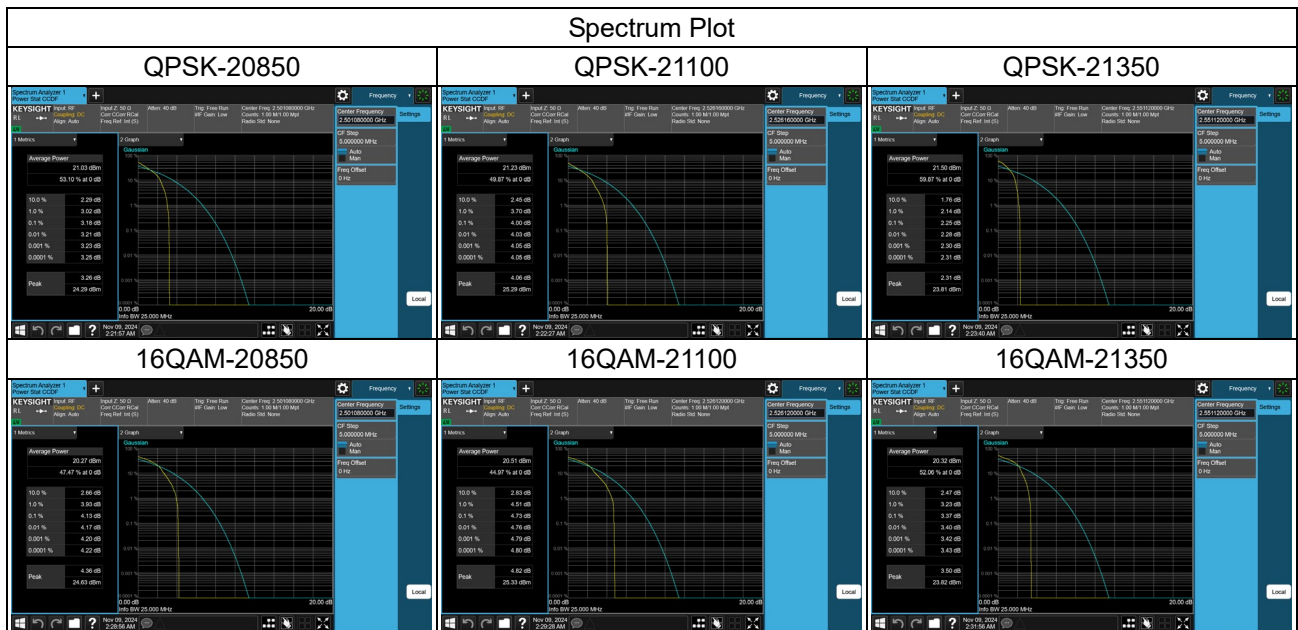


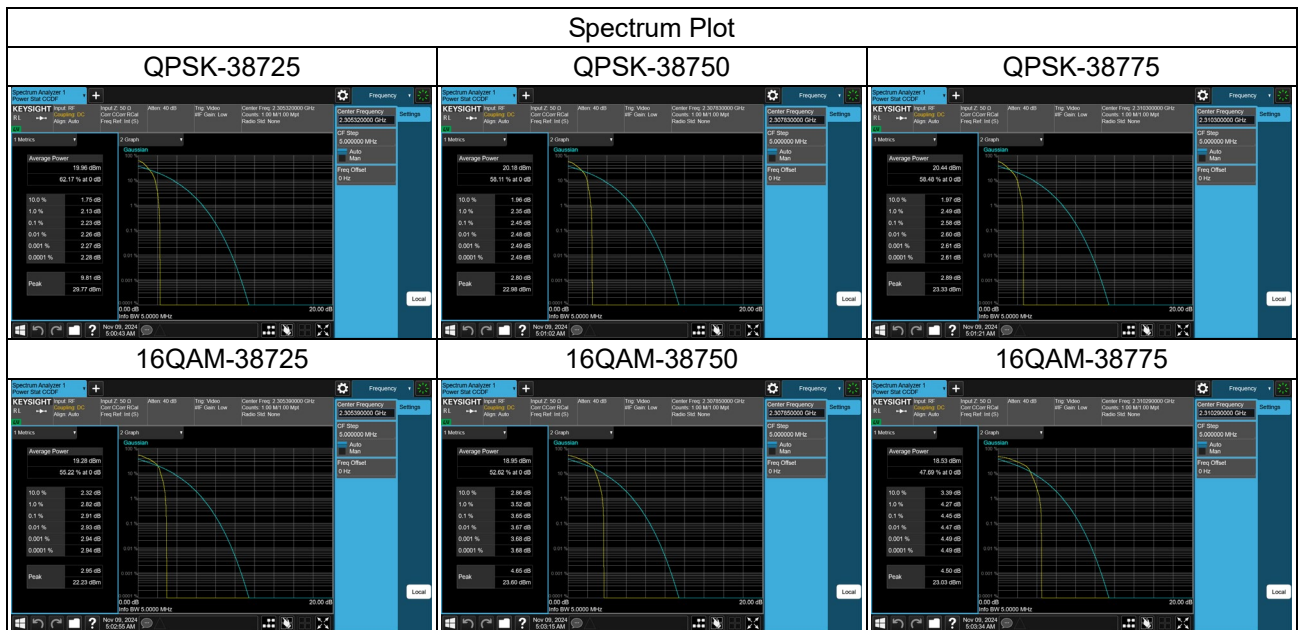
LTE Band 7_15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
20825	2507.5	3.20	4.32	13	Pass
21100	2535	4.20	5.05	13	Pass
21375	2562.5	2.82	3.67	13	Pass



LTE Band 7_20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
20850	2510	3.18	4.13	13	Pass
21100	2535	4.00	4.73	13	Pass
21350	2560	2.25	3.37	13	Pass



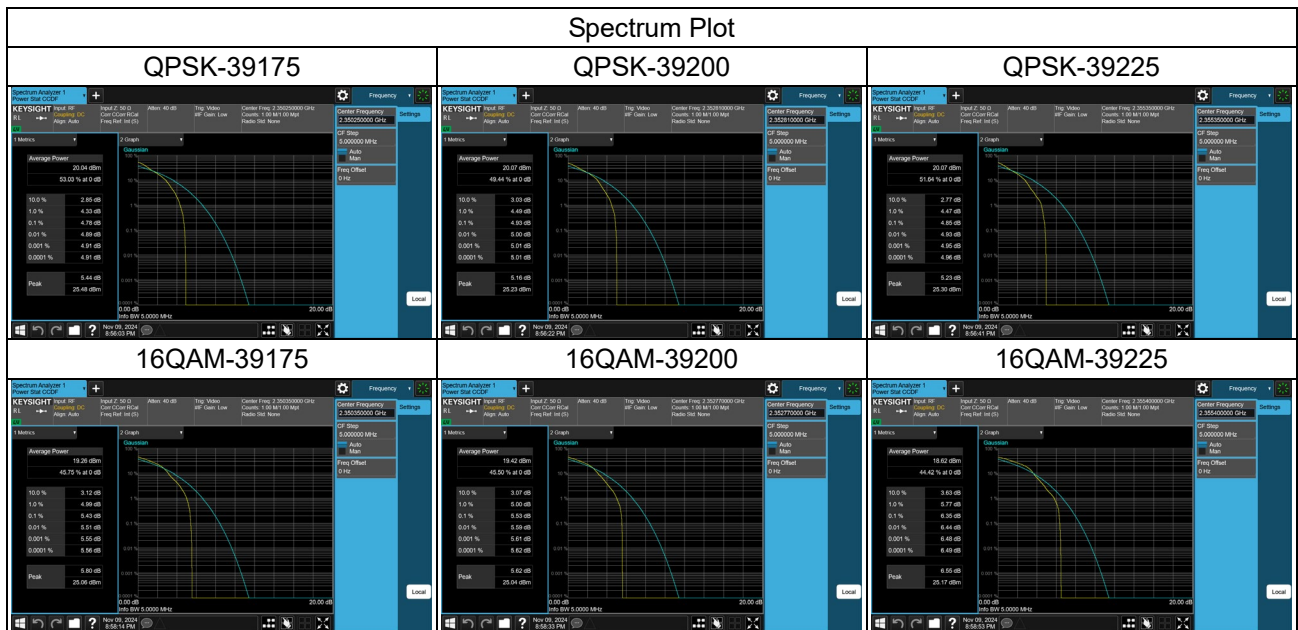
LTE Band 40(2305-2315MHz)_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
38725	2307.5	2.23	2.91	13	Pass
38750	2310	2.45	3.65	13	Pass
38775	2312.5	2.58	4.45	13	Pass



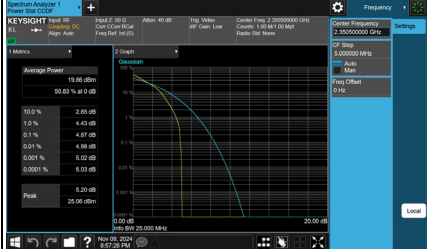
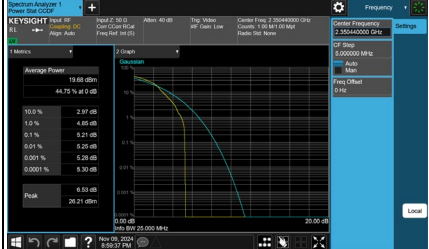
LTE Band 40(2305-2315MHz)_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
38750	2310	2.96	3.21	13	Pass

Spectrum Plot		
QPSK-38750	16QAM-38750	-
		-

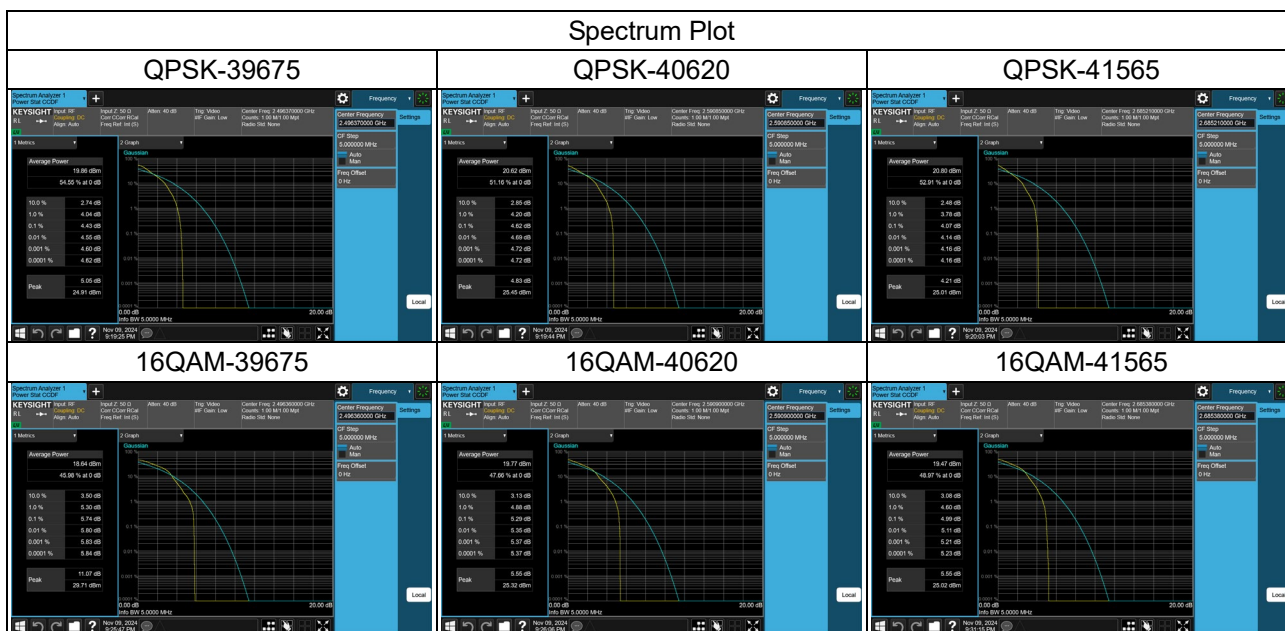
LTE Band 40(2350-2360MHz)_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39175	2352.5	4.78	5.43	13	Pass
39200	2355	4.93	5.53	13	Pass
39225	2357.5	4.85	6.35	13	Pass



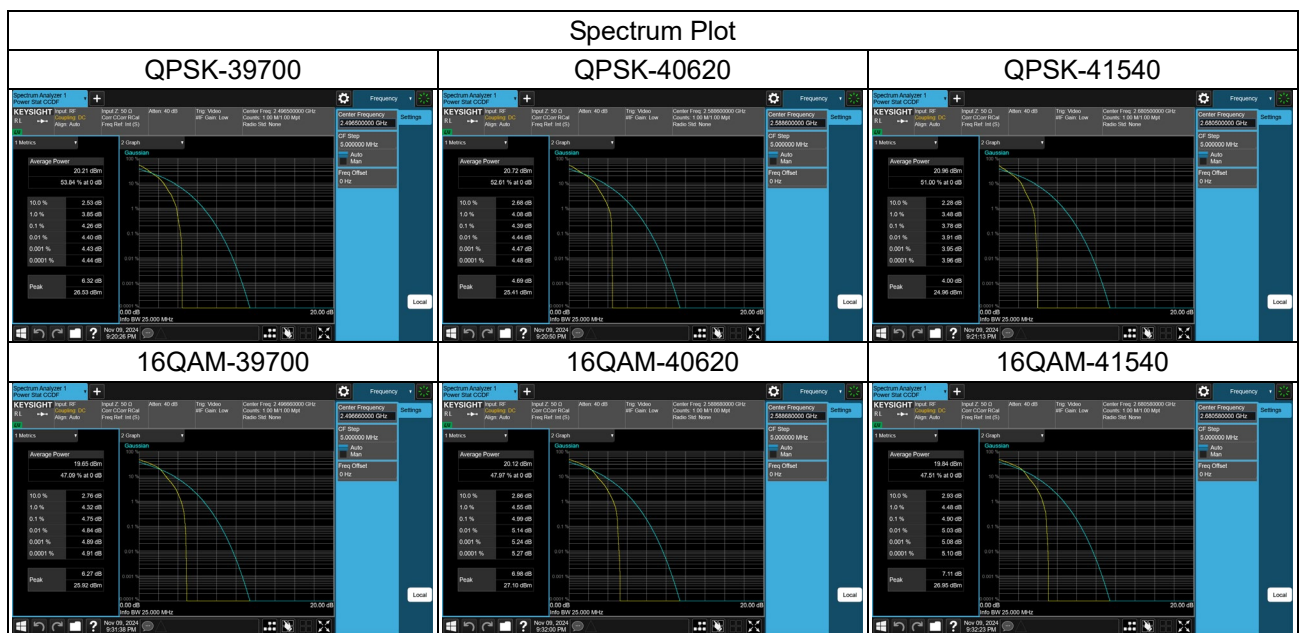
LTE Band 40(2350-2360MHz)_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39200	2355	4.87	5.21	13	Pass

Spectrum Plot		
QPSK-39200	16QAM-39200	-
		-

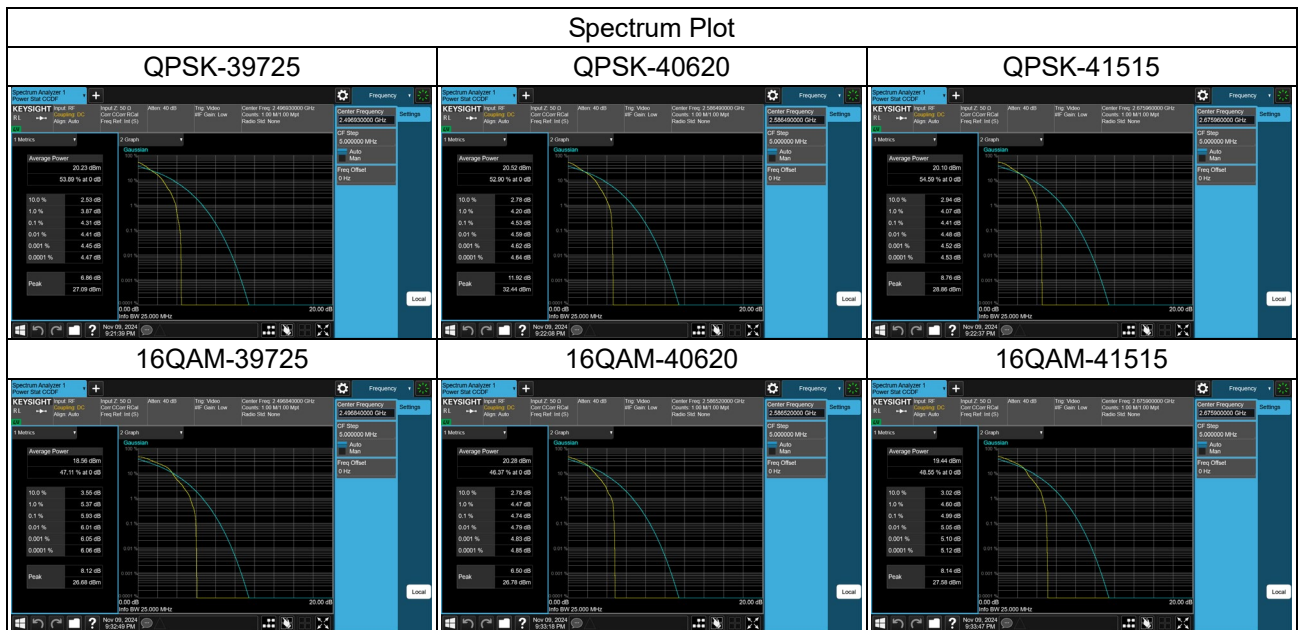
LTE Band 41_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39675	2498.5	4.43	5.74	13	Pass
40620	2593	4.62	5.29	13	Pass
41565	2687.5	4.07	4.99	13	Pass



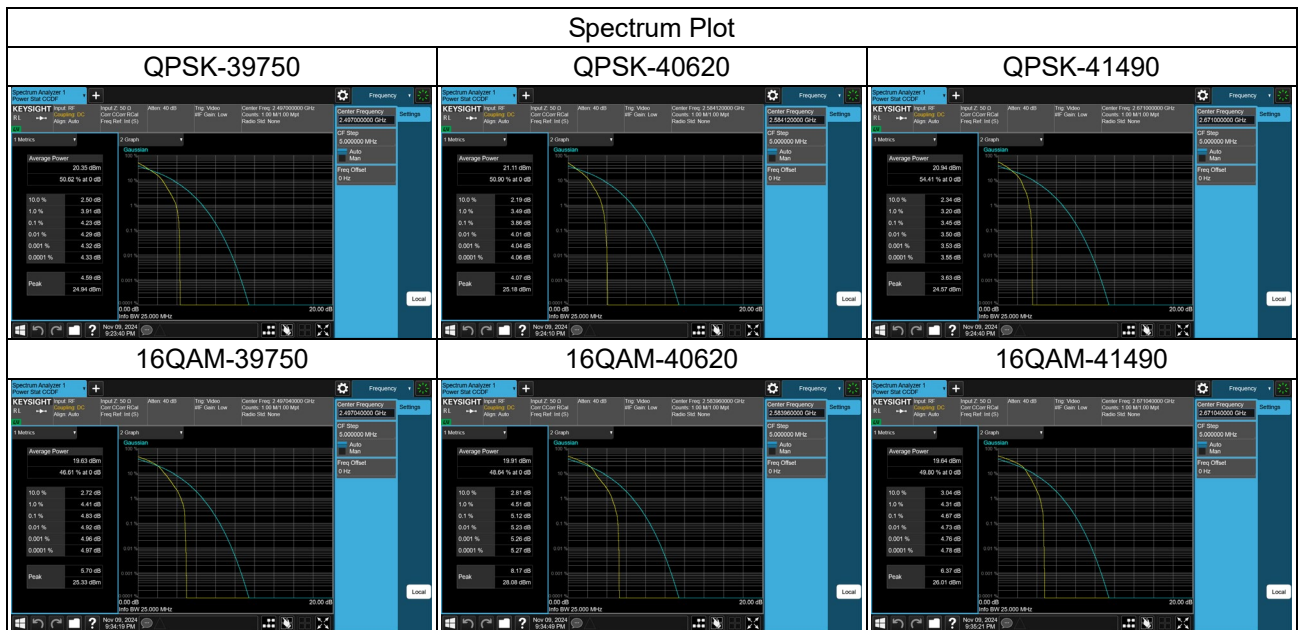
LTE Band 41_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39700	2501.0	4.26	4.75	13	Pass
40620	2593	4.39	4.99	13	Pass
41540	2685.0	3.78	4.90	13	Pass



LTE Band 41_15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39725	2503.5	4.31	5.93	13	Pass
40620	2593	4.53	4.74	13	Pass
41515	2682.5	4.41	4.99	13	Pass



LTE Band 41_20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
39750	2506.0	4.23	4.83	13	Pass
40620	2593	3.86	5.12	13	Pass
41490	2680.0	3.45	4.67	13	Pass



APPENDIX I - FREQUENCY STABILITY

Test Mode	WCDMA Band IV
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1710MHz	Highest channel limit:1755MHz		Record only
50	0.00001264	0.00001221	1710.620000	1754.850000	1710.619987	1754.850012	Pass	0.0074
40	0.0000128	0.00001132			1710.619987	1754.850011	Pass	0.0075
30	0.00001131	0.00001212			1710.619989	1754.850012	Pass	0.0069
20	0.00000984	0.00000844			1710.619990	1754.850008	Pass	0.0057
10	0.00001144	0.00000572			1710.619989	1754.850006	Pass	0.0067
0	0.00001237	0.00001253			1710.619988	1754.850013	Pass	0.0072
-10	0.00001338	0.00000853			1710.619987	1754.850009	Pass	0.0078
-20	0.00001285	0.00001124			1710.619987	1754.850011	Pass	0.0075
-30	0.00001475	0.00001252			1710.619985	1754.850013	Pass	0.0086
Minimum voltage	0.00001363	0.00001241			1710.619986	1754.850012	Pass	0.0080
Maximum voltage	0.00001342	0.00001155			1710.619987	1754.850012	Pass	0.0078
Nominal voltage	0.00000821	0.00001262			1710.619992	1754.850013	Pass	0.0072

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 4_20MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1710MHz	Highest channel limit:1755MHz		Record only
50	0.00000936	-0.00000592	1710.520000	1754.480000	1710.519991	1754.480006	Pass	0.0054
40	-0.0000145	-0.00000876			1710.519986	1754.480009	Pass	-0.0084
30	0.00000223	0.00000066			1710.519998	1754.480001	Pass	0.0013
20	0.00001757	-0.00000172			1710.519982	1754.480002	Pass	0.0102
10	0.00000756	0.00000098			1710.519992	1754.480010	Pass	0.0056
0	0.00001075	0.00000142			1710.519989	1754.480001	Pass	0.0063
-10	0.00001136	-0.00000513			1710.519989	1754.480005	Pass	0.0066
-20	-0.0000125	-0.00000746			1710.519988	1754.480007	Pass	-0.0073
-30	0.00001685	-0.00000128			1710.519983	1754.480001	Pass	0.0098
Minimum voltage	0.00001436	0.00000096			1710.519986	1754.480010	Pass	0.0083
Maximum voltage	-0.00001025	-0.00000445			1710.519990	1754.480004	Pass	-0.0060
Nominal voltage	0.00000588	0.00000276			1710.519994	1754.480003	Pass	0.0034

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 7_20MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-10dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:2500MHz	Highest channel limit:2570MHz		Record only
50	0.00000426	0.00000734	2500.53	2569.18	2500.529996	2569.180007	Pass	0.0029
40	-0.00001679	0.00001485			2500.529983	2569.180015	Pass	-0.0067
30	0.00000581	-0.0000146			2500.529994	2569.180015	Pass	-0.0057
20	0.00000194	0.0000123			2500.529998	2569.180012	Pass	0.0048
10	0.00000483	0.0000156			2500.529995	2569.180016	Pass	0.0061
0	0.00000376	0.00001678			2500.529996	2569.180017	Pass	0.0066
-10	-0.0000076	0.00000456			2500.529992	2569.180005	Pass	-0.0030
-20	0.00000175	0.00000201			2500.529998	2569.180002	Pass	0.0008
-30	0.00000543	0.00001463			2500.529995	2569.180015	Pass	0.0057
85% of nominal voltage	0.00000745	0.00000463			2500.529993	2569.180005	Pass	0.0030
115% of nominal voltage	0.00000767	-0.00000689			2500.529992	2569.180007	Pass	0.0031
Nominal voltage	0.00000582	0.00000786			2500.529994	2569.180008	Pass	0.0031

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 40(2305-2315MHz)_10MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:2305MHz	Highest channel limit:2315MHz		Record only
50	0.00001435	0.00000741	2305.230000	2314.980000	2305.229986	2314.980007	Pass	0.0062
40	-0.00001763	0.00001365			2305.229982	2314.980014	Pass	-0.0076
30	0.00001532	-0.0001136			2305.229985	2314.980114	Pass	-0.0492
20	0.00002184	0.0002223			2305.229978	2314.980222	Pass	0.0962
10	0.00001443	0.0000246			2305.229986	2314.980025	Pass	0.0106
0	0.00002356	0.00001838			2305.229976	2314.980018	Pass	0.0102
-10	-0.0000866	0.00000516			2305.229913	2314.980005	Pass	-0.0375
-20	0.00000265	0.00000311			2305.229997	2314.980003	Pass	0.0013
-30	0.00000673	0.00001543			2305.229993	2314.980015	Pass	0.0067
Minimum voltage	0.00000854	0.00000663			2305.229991	2314.980007	Pass	0.0037
Maximum voltage	0.00000863	-0.00000679			2305.229991	2314.980007	Pass	0.0037
Nominal voltage	0.00000682	0.00000876			2305.229993	2314.980009	Pass	0.0038

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 40(2350-2360MHz)_10MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	-0.00000332	-0.00001713	1850.750000	1909.630000	1850.749997	1909.630017	Pass	-0.0090
40	0.00007072	-0.00000713			1850.749929	1909.630007	Pass	0.0380
30	-0.00001052	-0.00000651			1850.749989	1909.630007	Pass	-0.0057
20	0.00000232	0.00000089			1850.749998	1909.630001	Pass	0.0012
10	0.00001545	-0.00001226			1850.749985	1909.630012	Pass	0.0083
0	0.00000632	-0.00000846			1850.749994	1909.630008	Pass	-0.0045
-10	0.00001682	-0.00000932			1850.749983	1909.630009	Pass	0.0090
-20	0.00000751	-0.00000523			1850.749992	1909.630005	Pass	0.0040
-30	-0.00000322	-0.00001525			1850.749997	1909.630015	Pass	-0.0080
Minimum voltage	0.00000843	-0.00000246			1850.749992	1909.630002	Pass	0.0045
Maximum voltage	-0.00000823	-0.00000848			1850.749992	1909.630008	Pass	-0.0045
Nominal voltage	0.00001123	-0.00000635			1850.749989	1909.630006	Pass	0.0060

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	LTE Band 41_20MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:2496MHz	Highest channel limit:2690MHz		Record only
50	-0.00004253	0.00002042	2496.210000	2689.670000	2496.209957	2689.670020	Pass	-0.0170
40	-0.00003679	0.00001936			2496.209963	2689.670019	Pass	-0.0147
30	0.00002323	0.00002443			2496.209977	2689.670024	Pass	0.0093
20	0.00001651	0.00002405			2496.209983	2689.670024	Pass	0.0090
10	0.00001549	0.00003325			2496.209985	2689.670033	Pass	0.0124
0	0.00001757	0.00002143			2496.209982	2689.670021	Pass	0.0080
-10	0.00001666	0.00002308			2496.209983	2689.670023	Pass	0.0086
-20	0.00001775	0.00002467			2496.209982	2689.670025	Pass	0.0092
-30	0.00002134	0.00004087			2496.209979	2689.670041	Pass	0.0153
Minimum voltage	0.00001234	0.00003527			2496.209988	2689.670035	Pass	0.0132
Maximum voltage	0.00001515	0.00001779			2496.209985	2689.670018	Pass	0.0066
Nominal voltage	0.00001642	0.00002426			2496.209984	2689.670024	Pass	0.0091

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 42_20MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:3450MHz	Highest channel limit:3550MHz		Record only
50	-0.00002452	0.00002413	3450.720000	3549.870000	3450.719975	3549.870024	Pass	-0.0072
40	-0.00003423	0.00002323			3450.719966	3549.870023	Pass	-0.0100
30	0.00002346	0.00002572			3450.719977	3549.870026	Pass	0.0072
20	0.00002155	0.00002116			3450.719978	3549.870021	Pass	0.0063
10	0.00001732	0.00003121			3450.719983	3549.870031	Pass	0.0087
0	0.00002328	0.00002462			3450.719977	3549.870025	Pass	0.0069
-10	0.00002436	0.00002223			3450.719976	3549.870022	Pass	0.0071
-20	0.00002214	0.00002132			3450.719978	3549.870021	Pass	0.0065
-30	0.00002365	0.00003227			3450.719976	3549.870032	Pass	0.0090
Minimum voltage	0.00001543	0.00001325			3450.719985	3549.870013	Pass	0.0045
Maximum voltage	0.00001653	0.00002738			3450.719983	3549.870027	Pass	0.0076
Nominal voltage	0.00002231	0.00002473			3450.719978	3549.870025	Pass	0.0069

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

End of Test Report