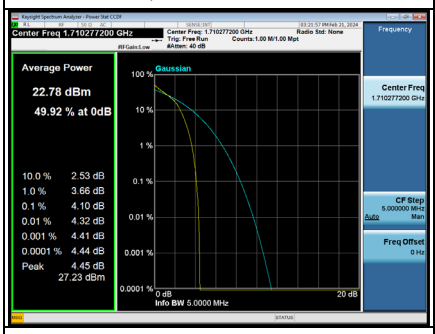
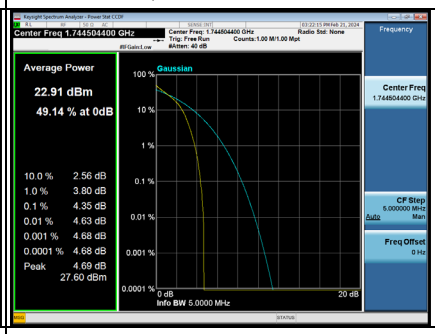
LTE Band 66_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131979	1710.7	4.10	4.85	13	Pass
132322	1745	4.35	5.30	13	Pass
132665	1779.3	4.00	4.95	13	Pass

Spectrum Plot

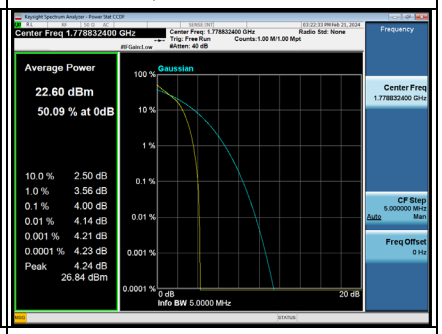
QPSK-131979



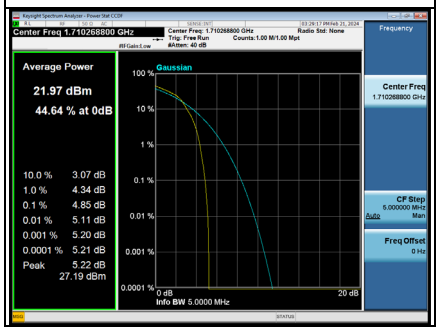
QPSK-132322



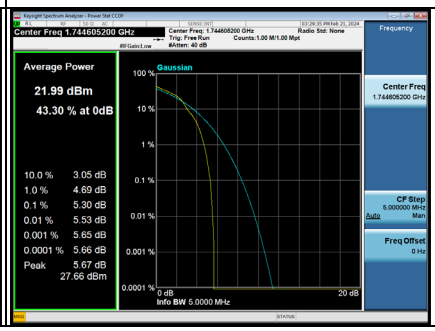
QPSK-132665



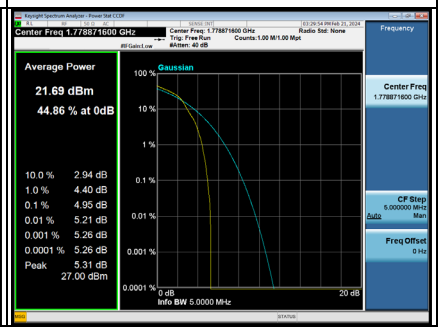
16QAM-131979



16QAM-132322



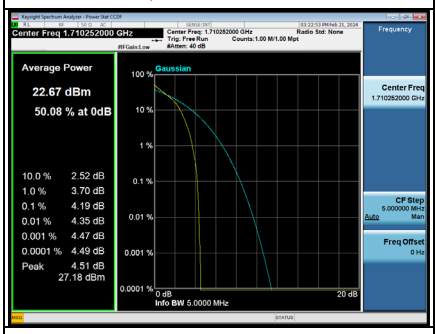
16QAM-132665



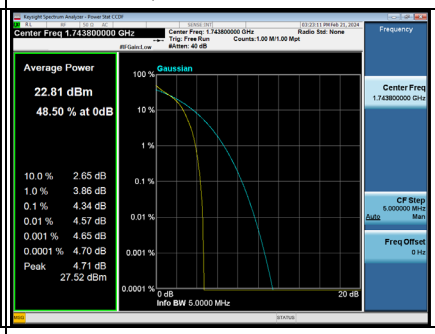
LTE Band 66_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131987	1711.5	4.19	5.08	13	Pass
132322	1745	4.34	5.28	13	Pass
132657	1778.5	3.98	4.75	13	Pass

Spectrum Plot

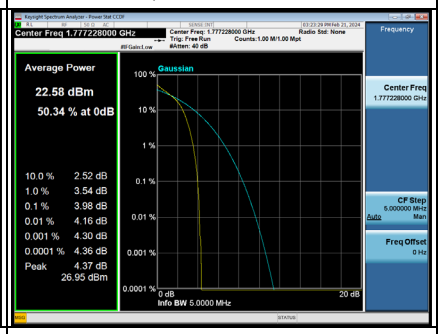
QPSK-131987



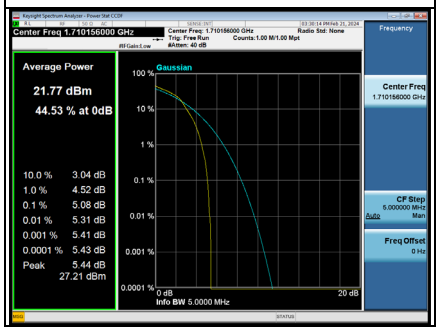
QPSK-132322



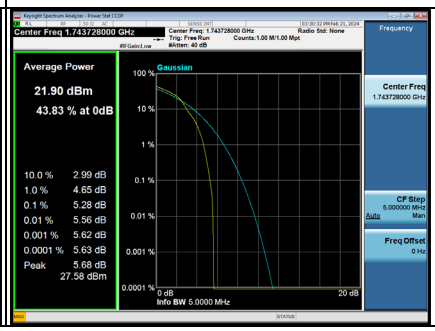
QPSK-132657



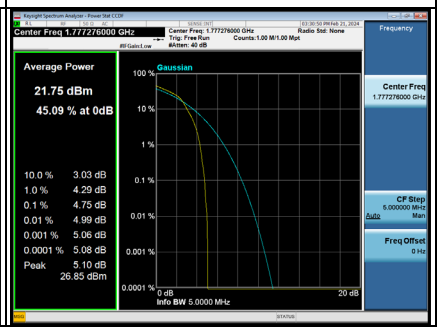
16QAM-131987



16QAM-132322



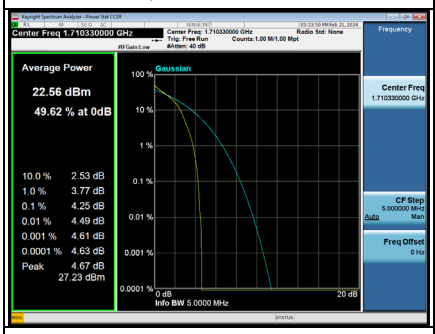
16QAM-132657



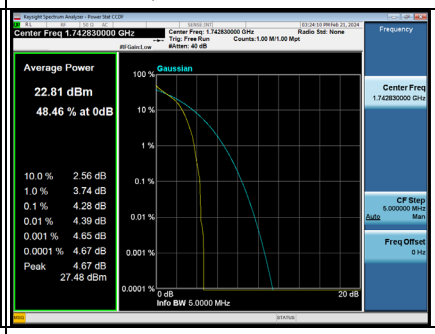
LTE Band 66_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131997	1712.5	4.25	5.15	13	Pass
132322	1745	4.28	5.15	13	Pass
132647	1777.5	3.99	4.72	13	Pass

Spectrum Plot

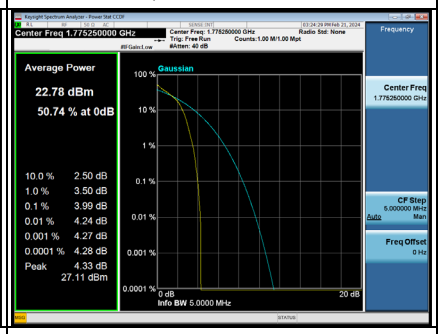
QPSK-131997



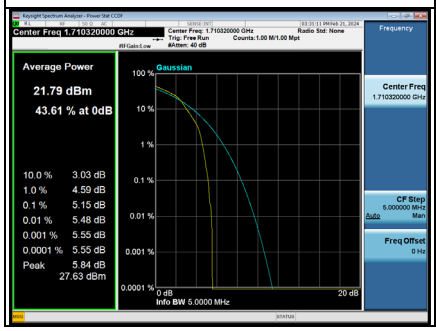
QPSK-132322



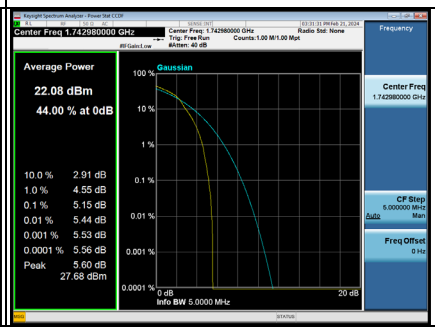
QPSK-132647



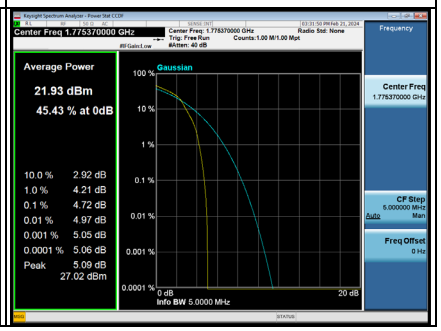
16QAM-131997



16QAM-132322



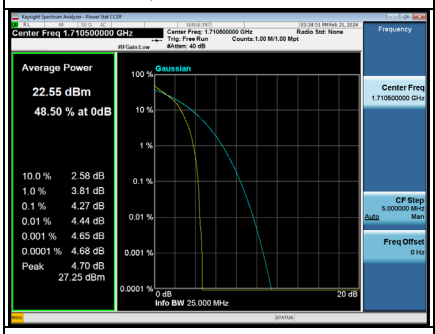
16QAM-132647



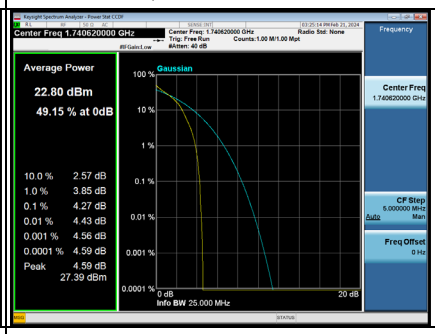
LTE Band 66_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132022	1715	4.27	5.08	13	Pass
132322	1745	4.27	5.14	13	Pass
132622	1775	3.87	4.67	13	Pass

Spectrum Plot

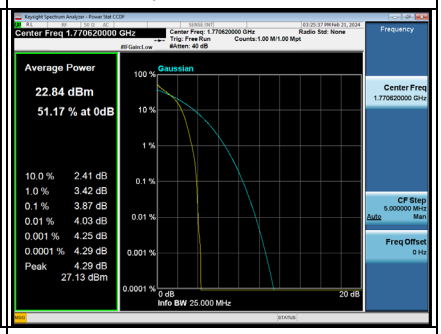
QPSK-132022



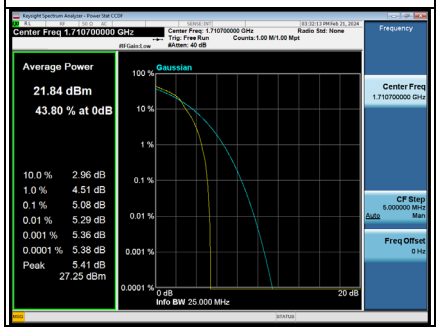
QPSK-132322



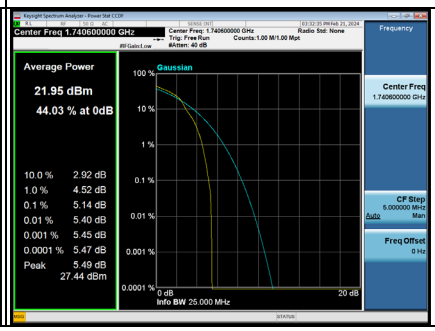
QPSK-132622



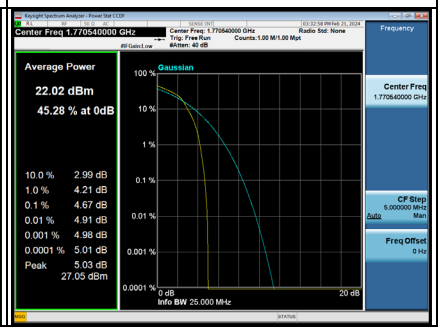
16QAM-132022



16QAM-132322



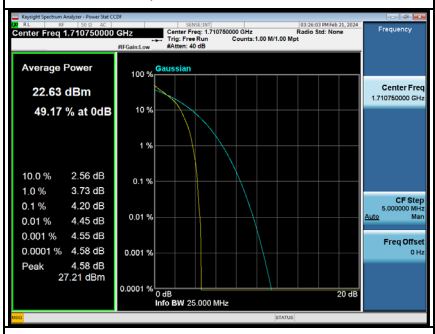
16QAM-132622



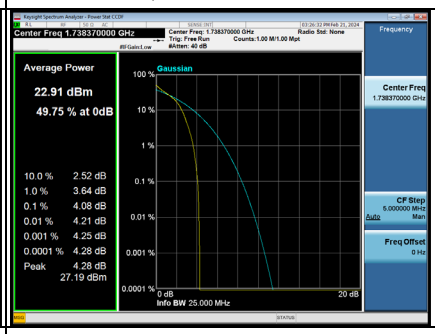
LTE Band 66_15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132047	1717.5	4.20	5.04	13	Pass
132322	1745	4.08	4.80	13	Pass
132597	1772.5	4.20	5.30	13	Pass

Spectrum Plot

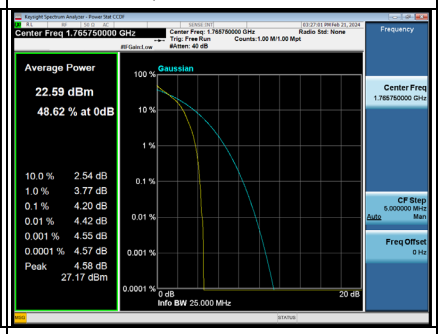
QPSK-132047



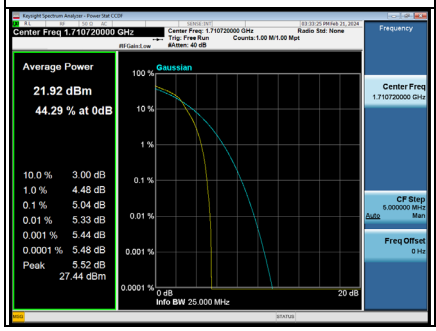
QPSK-132322



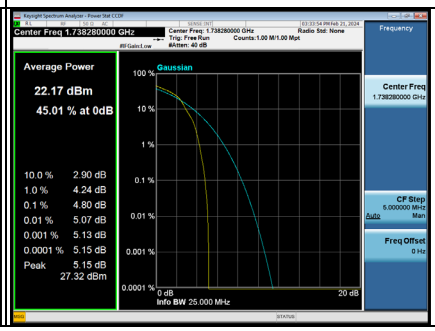
QPSK-132597



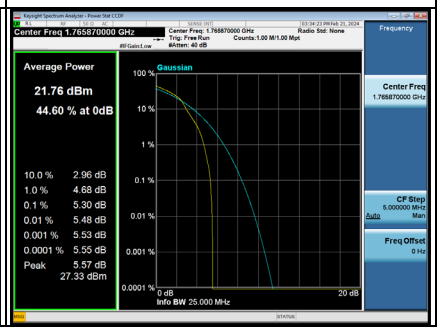
16QAM-132047



16QAM-132322



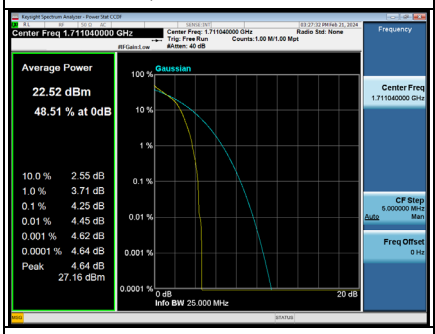
16QAM-132597



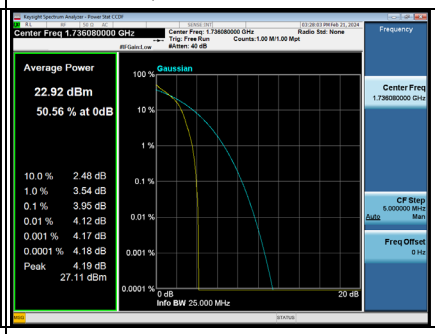
LTE Band 66_20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132072	1720	4.25	5.10	13	Pass
132322	1745	3.95	4.83	13	Pass
132572	1770	4.77	5.64	13	Pass

Spectrum Plot

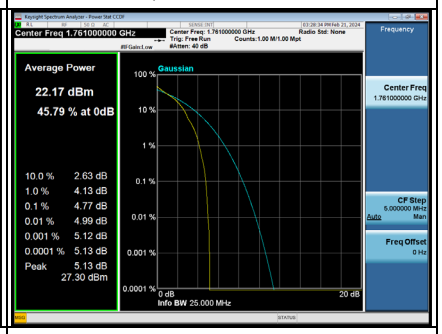
QPSK-132072



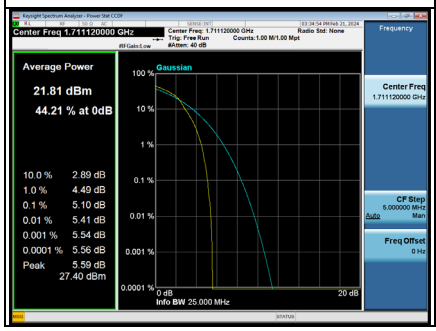
QPSK-132322



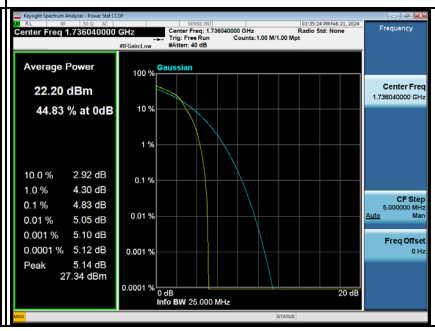
QPSK-132572



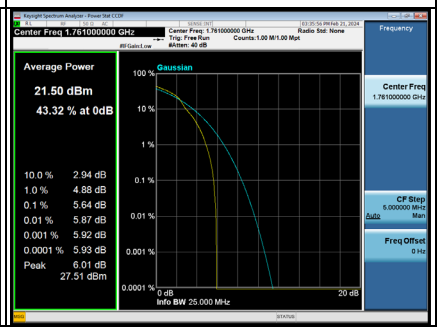
16QAM-132072



16QAM-132322



16QAM-132572



APPENDIX I - FREQUENCY STABILITY

Test Mode	WCDMA Band IV

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	-0.00002732	-0.00002883	1710.002000	1754.998000	1710.002027	1754.997971	Pass	-0.0164
40	-0.00002928	-0.0000283			1710.002029	1754.997972	Pass	-0.0171
30	0.00002965	0.00002719			1710.001970	1754.998027	Pass	0.0173
20	-0.0000293	-0.00002221			1710.002029	1754.997978	Pass	-0.0171
10	-0.00002607	-0.00003355			1710.002026	1754.997966	Pass	-0.0191
0	0.00002467	-0.00002014			1710.001975	1754.997980	Pass	0.0144
−10	-0.00003362	0.00003529			1710.002034	1754.998035	Pass	0.0201
−20	-0.00002689	-0.00002297			1710.002027	1754.997977	Pass	-0.0157
−30	-0.00002652	0.00002733			1710.002027	1754.998027	Pass	0.0156
85% of nominal voltage	-0.00002596	0.00002652			1710.002026	1754.998027	Pass	-0.0152
115% of nominal voltage	-0.00002626	-0.00002059			1710.002026	1754.997979	Pass	-0.0153
Nominal voltage	-0.00002808	0.00002779			1710.002028	1754.998028	Pass	-0.0164

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

Test Mode	LTE Band 4_20MHz

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	-0.00003726	-0.00003559	1710.650000	1754.600000	1710.650037	1754.599964	Pass	-0.0217
40	-0.00004094	-0.00004066			1710.650041	1754.599959	Pass	-0.0238
30	-0.00003409	-0.00003865			1710.650034	1754.599961	Pass	-0.0221
20	-0.00003259	-0.00004503			1710.650033	1754.599955	Pass	-0.0258
10	-0.00003449	-0.0000385			1710.650034	1754.599962	Pass	-0.0221
0	-0.00004123	-0.00003648			1710.650041	1754.599964	Pass	-0.0240
−10	-0.00003508	-0.00002938			1710.650035	1754.599971	Pass	-0.0204
−20	-0.00003187	-0.00003046			1710.650032	1754.599970	Pass	-0.0185
−30	-0.00002782	-0.00003499			1710.650028	1754.599965	Pass	-0.0201
85% of nominal voltage	-0.00003719	-0.00003997			1710.650037	1754.599960	Pass	-0.0229
115% of nominal voltage	-0.00004206	-0.00002987			1710.650042	1754.599970	Pass	-0.0245
Nominal voltage	-0.0000401	-0.00002671			1710.650040	1754.599973	Pass	-0.0233

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

Test Mode	LTE Band 7_20MHz

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	-0.00004373	-0.00004965	2500.450000	2569.750000	2500.450044	2569.749950	Pass	-0.0194
40	-0.00004223	-0.00004363			2500.450042	2569.749956	Pass	-0.0170
30	-0.00005257	-0.00004985			2500.450053	2569.749950	Pass	-0.0209
20	-0.00004124	-0.00003345			2500.450041	2569.749967	Pass	-0.0164
10	-0.00005301	-0.00004402			2500.450053	2569.749956	Pass	-0.0211
0	-0.00003632	-0.00003944			2500.450036	2569.749961	Pass	-0.0154
−10	-0.00002734	-0.00004173			2500.450027	2569.749958	Pass	-0.0163
−20	-0.00004817	-0.00004083			2500.450048	2569.749959	Pass	-0.0192
−30	-0.00004367	-0.00005017			2500.450044	2569.749950	Pass	-0.0196
85% of nominal voltage	-0.00004117	-0.00004103			2500.450041	2569.749959	Pass	-0.0164
115% of nominal voltage	-0.00005573	-0.00004917			2500.450056	2569.749951	Pass	-0.0222
Nominal voltage	-0.000041	-0.00005186			2500.450041	2569.749948	Pass	-0.0203

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

Test Mode	LTE Band 40(2305-2315MHz)_10MHz

Frequency error versus temperature and supply voltage							
Temperature (°C)	Mid 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	-0.00004211	2305.188000	2314.812000	2305.188042	2314.811958	Pass	-0.0182
40	-0.00004635			2305.188046	2314.811954	Pass	-0.0201
30	-0.00004805			2305.188048	2314.811952	Pass	-0.0208
20	-0.00005116			2305.188051	2314.811949	Pass	-0.0221
10	-0.0000442			2305.188044	2314.811956	Pass	-0.0191
0	-0.00004869			2305.188049	2314.811951	Pass	-0.0211
−10	-0.00006765			2305.188068	2314.811932	Pass	-0.0293
−20	-0.00004609			2305.188046	2314.811954	Pass	-0.0200
−30	-0.00004897			2305.188049	2314.811951	Pass	-0.0212
85% of nominal voltage	-0.00005849			2305.188058	2314.811942	Pass	-0.0253
115% of nominal voltage	-0.00005344			2305.188053	2314.811947	Pass	-0.0231
Nominal voltage	-0.00004014			2305.188040	2314.811960	Pass	-0.0174

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

Test Mode	LTE Band 40(2350-2355MHz)_5MHz

Frequency error versus temperature and supply voltage							
Temperature (°C)	Mid 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:2350MHz	Highest channel limit:2360MHz		Record only
50	-0.0000502	2350.188000	2359.812000	2350.188050	2359.811950	Pass	-0.0213
40	-0.00005442			2350.188054	2359.811946	Pass	-0.0231
30	-0.00005636			2350.188056	2359.811944	Pass	-0.0239
20	-0.00004385			2350.188044	2359.811956	Pass	-0.0186
10	-0.00005367			2350.188054	2359.811946	Pass	-0.0228
0	-0.00004977			2350.188050	2359.811950	Pass	-0.0211
−10	-0.00004847			2350.188048	2359.811952	Pass	-0.0206
−20	-0.0000597			2350.188060	2359.811940	Pass	-0.0254
−30	-0.00004592			2350.188046	2359.811954	Pass	-0.0195
85% of nominal voltage	-0.0000496			2350.188050	2359.811950	Pass	-0.0211
115% of nominal voltage	-0.00005031			2350.188050	2359.811950	Pass	-0.0214
Nominal voltage	-0.00004259			2350.188043	2359.811957	Pass	-0.0181

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

Test Mode	LTE Band 66_20MHz

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:1780MHz		Record only
50	-0.00003586	-0.00004651	1710.250000	1779.700000	1710.250036	1779.699953	Pass	-0.0263
40	-0.00004206	-0.00004161			1710.250042	1779.699958	Pass	-0.0245
30	-0.00003575	-0.00005991			1710.250036	1779.699940	Pass	-0.0338
20	-0.00004828	-0.00003801			1710.250048	1779.699962	Pass	-0.0281
10	-0.00003399	-0.00004096			1710.250034	1779.699959	Pass	-0.0231
0	-0.00003104	-0.00003934			1710.250031	1779.699961	Pass	-0.0222
−10	-0.00003389	-0.00005077			1710.250034	1779.699949	Pass	-0.0287
−20	-0.00003858	-0.00004197			1710.250039	1779.699958	Pass	-0.0237
−30	-0.00003973	-0.00004323			1710.250040	1779.699957	Pass	-0.0244
85% of nominal voltage	-0.00003779	-0.00004728			1710.250038	1779.699953	Pass	-0.0267
115% of nominal voltage	-0.00003795	-0.0000398			1710.250038	1779.699960	Pass	-0.0225
Nominal voltage	-0.00004602	-0.00002769			1710.250046	1779.699972	Pass	-0.0268

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.3V.

End of Test Report