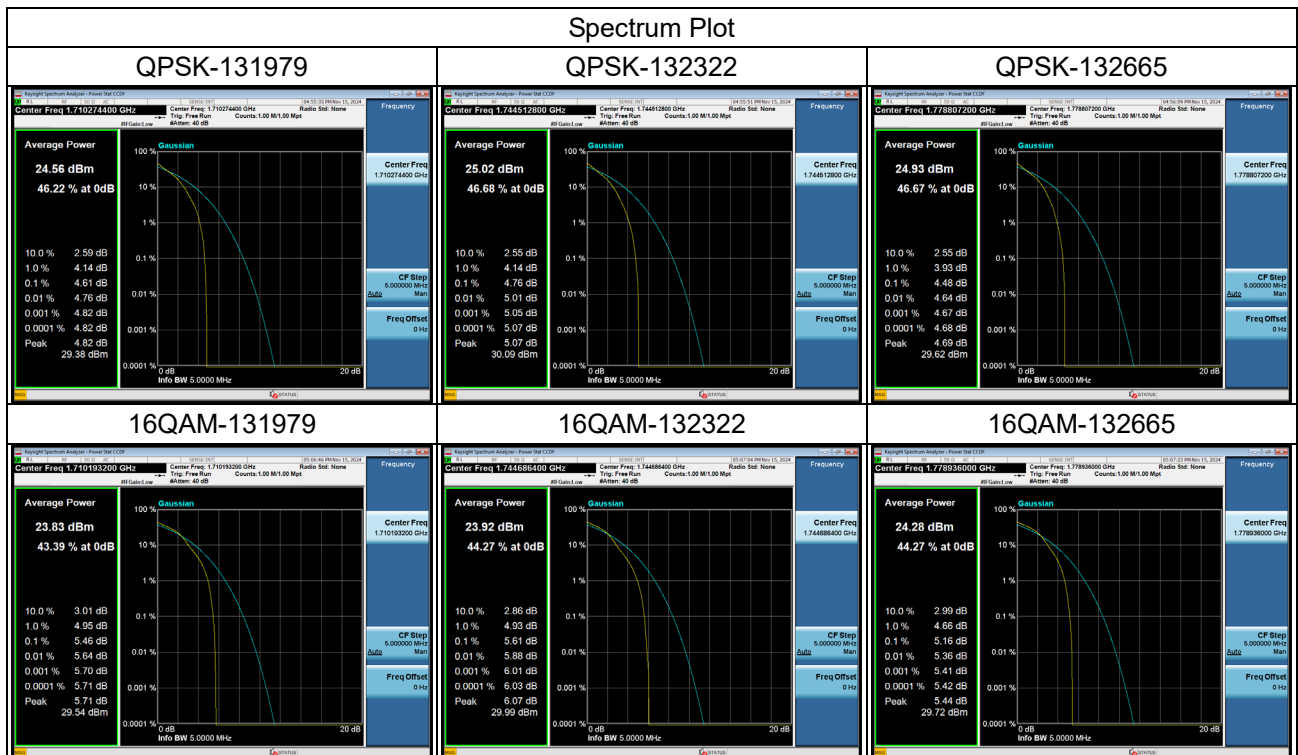
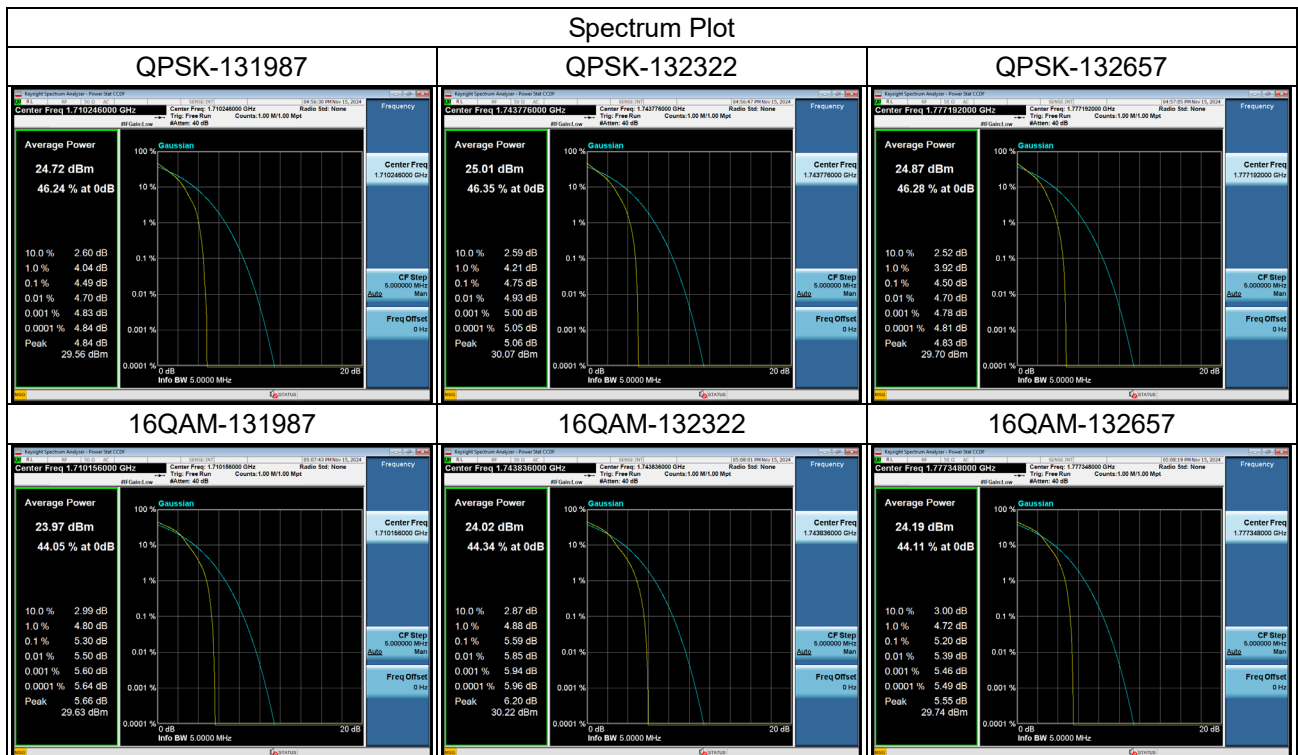


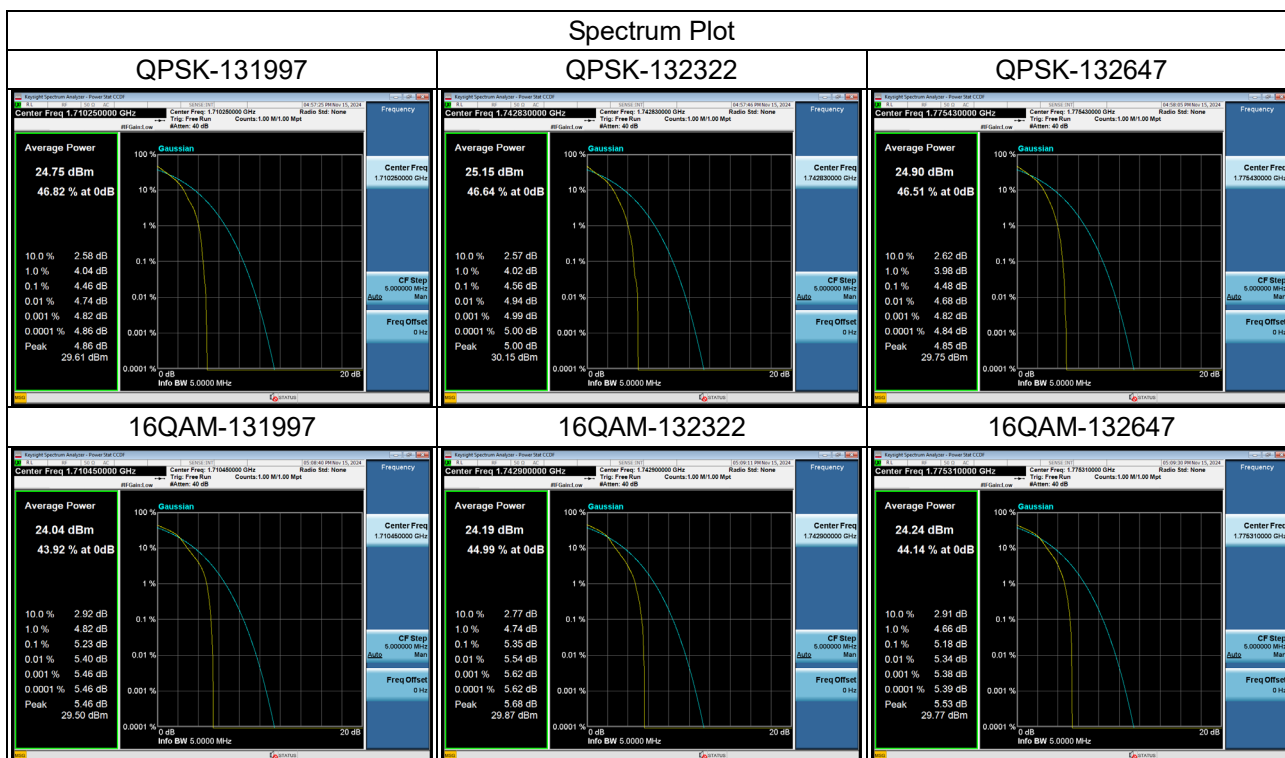
LTE Band 66_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131979	1710.7	4.61	5.46	13	Pass
132322	1745	4.76	5.61	13	Pass
132665	1779.3	4.48	5.16	13	Pass



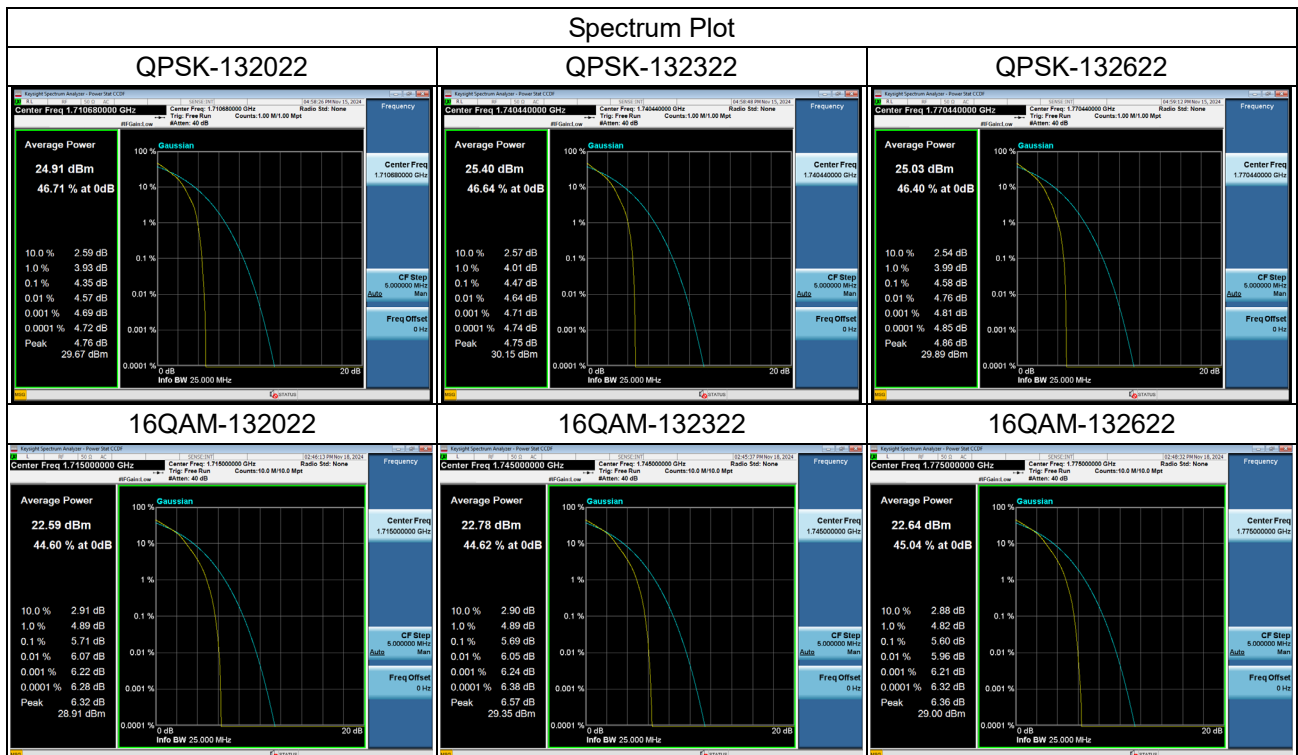
LTE Band 66_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131987	1711.5	4.49	5.30	13	Pass
132322	1745	4.75	5.59	13	Pass
132657	1778.5	4.50	5.20	13	Pass



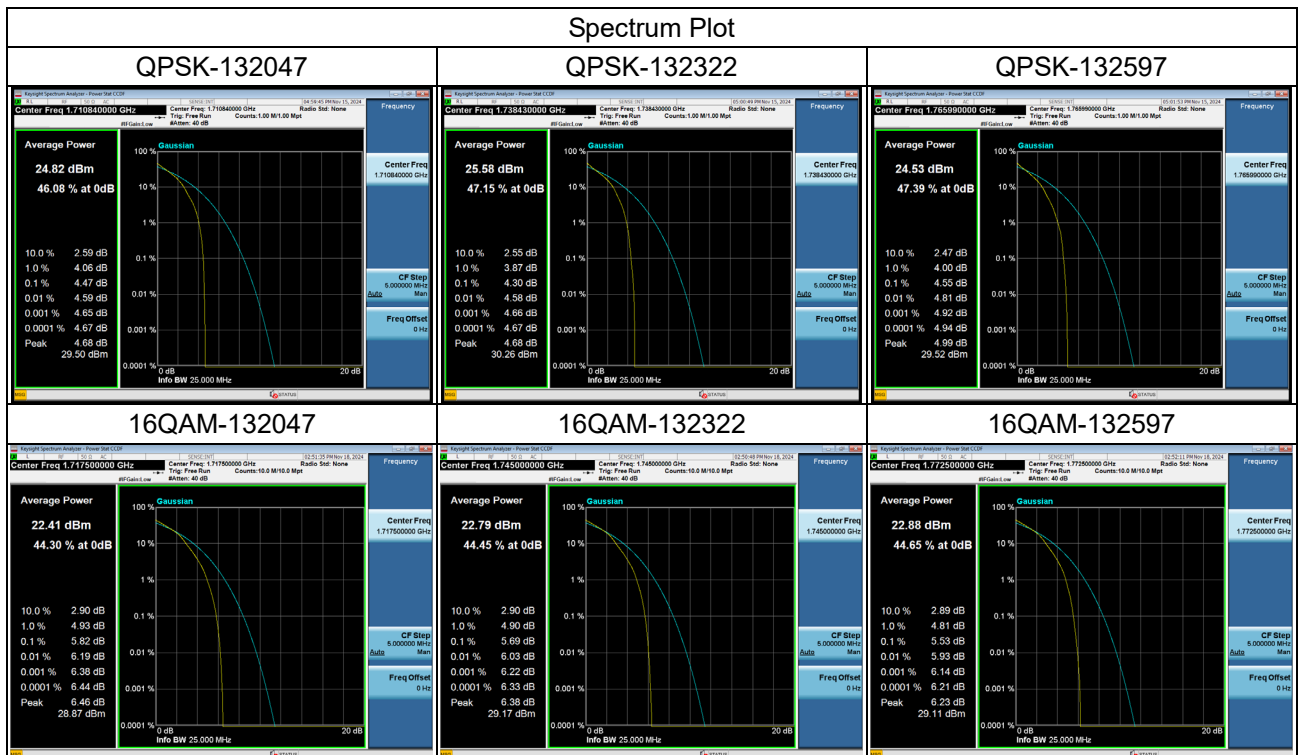
LTE Band 66_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
131997	1712.5	4.46	5.23	13	Pass
132322	1745	4.56	5.35	13	Pass
132647	1777.5	4.48	5.18	13	Pass



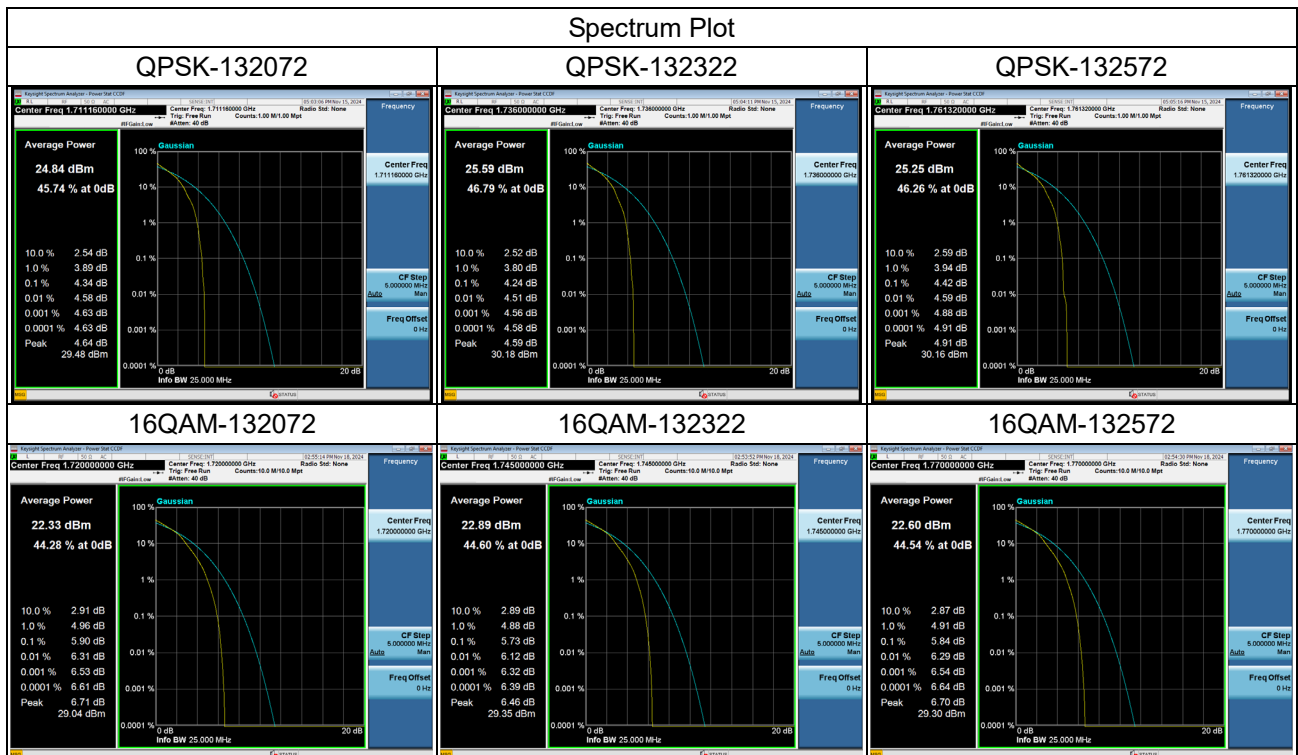
LTE Band 66_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132022	1715	4.35	5.71	13	Pass
132322	1745	4.47	5.69	13	Pass
132622	1775	4.58	5.60	13	Pass



LTE Band 66_15MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132047	1717.5	4.47	5.82	13	Pass
132322	1745	4.30	5.69	13	Pass
132597	1772.5	4.55	5.53	13	Pass



LTE Band 66_20MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
132072	1720	4.34	5.90	13	Pass
132322	1745	4.24	5.73	13	Pass
132572	1770	4.42	5.84	13	Pass



APPENDIX I - FREQUENCY STABILITY

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	0.00000836	-0.00000792	1710.25 0000	1754.62 0000	1710.249992	1754.620008	Pass	0.0049
40	-0.0000235	-0.00001876			1710.249977	1754.620019	Pass	-0.0137
30	0.00000423	0.00000266			1710.249996	1754.620003	Pass	0.0025
20	0.00001757	-0.00000182			1710.249982	1754.620002	Pass	0.0102
10	0.00000856	0.0000198			1710.249991	1754.620020	Pass	0.0113
0	0.00001175	0.00000342			1710.249988	1754.620003	Pass	0.0068
-10	0.00001236	-0.00000613			1710.249988	1754.620006	Pass	0.0072
-20	-0.0000125	-0.00000836			1710.249988	1754.620008	Pass	-0.0073
-30	0.00001785	-0.00000228			1710.249982	1754.620002	Pass	0.0104
Minimum voltage	0.00001546	0.0000396			1710.249985	1754.620040	Pass	0.0227
Maximum voltage	-0.00001215	-0.00000345			1710.249988	1754.620003	Pass	-0.0071
Nominal voltage	0.00000593	0.00000376			1710.249994	1754.620004	Pass	0.0034

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

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	0.00000822	0.00000745	2500.41	2569.36	2500.409992	2569.360007	Pass	0.0033
40	-0.00001579	0.00001925			2500.409984	2569.360019	Pass	0.0075
30	0.00000462	-0.00001621			2500.409995	2569.360016	Pass	-0.0063
20	0.00000195	0.00001362			2500.409998	2569.360014	Pass	0.0053
10	0.00000463	0.00001673			2500.409995	2569.360017	Pass	0.0065
0	0.00000576	0.00001686			2500.409994	2569.360017	Pass	0.0066
-10	-0.0000326	0.00000462			2500.409967	2569.360005	Pass	-0.0130
-20	0.00000425	0.00000283			2500.409996	2569.360003	Pass	0.0017
-30	0.00000443	0.00001345			2500.409996	2569.360013	Pass	0.0053
Minimum voltage	0.00001841	0.00000457			2500.409982	2569.360005	Pass	0.0073
Maximum voltage	0.00002667	-0.00000684			2500.409973	2569.360007	Pass	0.0106
Nominal voltage	0.00001682	0.00000743			2500.409983	2569.360007	Pass	0.0067

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 12_CH23095_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:699MHz	Highest channel limit:716MHz		Record only
50	0.00000822	-0.00000516	699.27 0000	715.93 0000	699.269992	715.930005	Pass	0.0117
40	0.00000859	-0.00000322			699.269991	715.930003	Pass	0.0122
30	0.00001242	-0.00000842			699.269988	715.930008	Pass	0.0176
20	-0.00000641	-0.00000546			699.269994	715.930005	Pass	-0.0091
10	0.0000092	-0.00000338			699.269991	715.930003	Pass	0.0131
0	-0.0000011	-0.00000401			699.269999	715.930004	Pass	-0.0056
-10	0.00000612	-0.00000707			699.269994	715.930007	Pass	-0.0099
-20	0.00000172	0.00000939			699.269998	715.930009	Pass	0.0132
-30	0.00000321	-0.00000322			699.269997	715.930003	Pass	0.0046
Minimum voltage	-0.00000472	-0.00000742			699.269995	715.930007	Pass	-0.0104
Maximum voltage	0.00000309	0.00001531			699.269997	715.930015	Pass	0.0215
Nominal voltage	-0.00000485	-0.00000415			699.269995	715.930004	Pass	-0.0069

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 13_10MHz
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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	-0.00000334	777.870000	786.120000	777.869997	786.120003	Pass	-0.0043
40	-0.00000129			777.869999	786.120001	Pass	-0.0016
30	-0.00000748			777.869993	786.120007	Pass	-0.0096
20	-0.00001045			777.869990	786.120010	Pass	-0.0134
10	-0.00000252			777.869997	786.120003	Pass	-0.0032
0	0.00000139			777.869999	786.120001	Pass	0.0018
-10	0.00000238			777.869998	786.120002	Pass	0.0030
-20	-0.00000475			777.869995	786.120005	Pass	-0.0061
-30	-0.00000211			777.869998	786.120002	Pass	-0.0027
Minimum voltage	-0.00000615			777.869994	786.120006	Pass	-0.0079
Maximum voltage	-0.00000372			777.869996	786.120004	Pass	-0.0048
Nominal voltage	0.00000798			777.869992	786.120008	Pass	0.0102

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 38_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:2570MHz	Highest channel limit:2620MHz		Record only
50	0.00001065	0.00000942	2570.310000	2619.510000	2570.309989	2619.510009	Pass	0.0041
40	0.00002177	0.0000128			2570.309978	2619.510013	Pass	0.0084
30	0.00002156	-0.00002029			2570.309978	2619.510020	Pass	0.0084
20	0.00001811	0.0000177			2570.309982	2619.510018	Pass	0.0070
10	0.00002189	0.00001478			2570.309978	2619.510015	Pass	0.0085
0	0.00001813	0.00000706			2570.309982	2619.510007	Pass	0.0070
-10	0.0000216	-0.0000155			2570.309978	2619.510016	Pass	0.0084
-20	0.00001904	0.00000949			2570.309981	2619.510009	Pass	0.0074
-30	0.00002037	0.0000067			2570.309980	2619.510007	Pass	0.0079
Minimum voltage	0.00002306	0.00001339			2570.309977	2619.510013	Pass	0.0089
Maximum voltage	0.00001741	0.00000671			2570.309983	2619.510007	Pass	0.0067
Nominal voltage	0.0000196	0.00000907			2570.309980	2619.510009	Pass	0.0076

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 41(2555-2655MHz)_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:2555MHz	Highest channel limit:2655MHz		Record only
50	-0.00004051	0.00001232	2555.230000	2654.920000	2555.229959	2654.920012	Pass	-0.0158
40	-0.00003432	0.00001852			2555.229966	2654.920019	Pass	-0.0134
30	0.00003213	0.00002323			2555.229968	2654.920023	Pass	0.0125
20	0.00001663	0.00002245			2555.229983	2654.920022	Pass	0.0085
10	0.00001554	0.00002355			2555.229984	2654.920024	Pass	0.0089
0	0.00001832	0.00002423			2555.229982	2654.920024	Pass	0.0092
-10	0.00001732	0.00002038			2555.229983	2654.920020	Pass	0.0077
-20	0.00001836	0.00002647			2555.229982	2654.920026	Pass	0.0100
-30	0.00002142	0.00002727			2555.229979	2654.920027	Pass	0.0103
Minimum voltage	0.00001342	0.00003257			2555.229987	2654.920033	Pass	0.0123
Maximum voltage	0.00001552	0.00001329			2555.229984	2654.920013	Pass	0.0061
Nominal voltage	0.00001462	0.00002246			2555.229985	2654.920022	Pass	0.0085

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 41(2496-2690MHz)_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	-0.00003553	0.00002024	2496.420000	2689.520000	2496.419964	2689.520020	Pass	-0.0142
40	-0.00003439	0.00001396			2496.419966	2689.520014	Pass	-0.0137
30	0.00002433	0.00002443			2496.419976	2689.520024	Pass	0.0097
20	0.00001821	0.00002045			2496.419982	2689.520020	Pass	0.0076
10	0.00001629	0.00003332			2496.419984	2689.520033	Pass	0.0124
0	0.00001743	0.00002233			2496.419983	2689.520022	Pass	0.0083
-10	0.00001648	0.00002306			2496.419984	2689.520023	Pass	0.0086
-20	0.00001775	0.00002474			2496.419982	2689.520025	Pass	0.0092
-30	0.00002264	0.00003265			2496.419977	2689.520033	Pass	0.0122
Minimum voltage	0.00001263	0.00003532			2496.419987	2689.520035	Pass	0.0132
Maximum voltage	0.00001551	0.00001797			2496.419984	2689.520018	Pass	0.0067
Nominal voltage	0.00001624	0.00002462			2496.419984	2689.520025	Pass	0.0092

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

Test Mode	LTE Band 66_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:1780MHz		Record only
50	0.00000801	0.00000947	1710.020000	1779.830000	1710.019992	1779.830009	Pass	0.0054
40	0.00000184	-0.00000916			1710.019998	1779.830009	Pass	-0.0052
30	0.00000328	0.00000425			1710.019997	1779.830004	Pass	0.0024
20	-0.00000819	0.00000793			1710.019992	1779.830008	Pass	-0.0048
10	0.00000139	-0.00000416			1710.019999	1779.830004	Pass	-0.0024
0	0.00000305	0.000004			1710.019997	1779.830004	Pass	0.0023
-10	-0.00000339	-0.00000169			1710.019997	1779.830002	Pass	-0.0020
-20	-0.00000135	0.00000934			1710.019999	1779.830009	Pass	0.0053
-30	0.00000747	-0.00000055			1710.019993	1779.830001	Pass	0.0043
Minimum voltage	-0.00000811	-0.00000203			1710.019992	1779.830002	Pass	-0.0047
Maximum voltage	-0.00000179	0.00000759			1710.019998	1779.830008	Pass	0.0043
Nominal voltage	0.00000555	-0.00000046			1710.019994	1779.830000	Pass	0.0032

Note: Nominal voltage= 12V, Maximum voltage= 13.8V, Minimum voltage= 10.2V.

End of Test Report