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# Appendix B.9

LTE Band 26(814-824)



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#### **Transmitter Power Output**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.51	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.61	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.47	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.56	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.47	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.58	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.47	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.61	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.50	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.60	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.53	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.62	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.70	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.80	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.64	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.69	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.67	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.74	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.68	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.68	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.76	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.87	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.79	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.70	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.51	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.51	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.51	50	PASS



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Band26	3MHz	QPSK	26705	15RB#0	22.53	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.53	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.49	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.51	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.59	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.55	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.55	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.56	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.61	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.73	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.74	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.61	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.55	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.65	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.66	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.75	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.59	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.75	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.79	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.75	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.63	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.43	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.65	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.41	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.57	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.44	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.70	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.44	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.59	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.45	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.69	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.47	50	PASS



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Band26	5MHz	QPSK	26765	25RB#0	22.60	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.72	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.90	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.56	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.58	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.57	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.79	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.57	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.61	50	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.64	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.86	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.68	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.62	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.53	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.67	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.53	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.61	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.81	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.88	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.76	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.61	50	PASS



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### Peak-to-Average Ratio(CCDF)

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	B Configuration Result(dB)		Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.04	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.76	13	PASS



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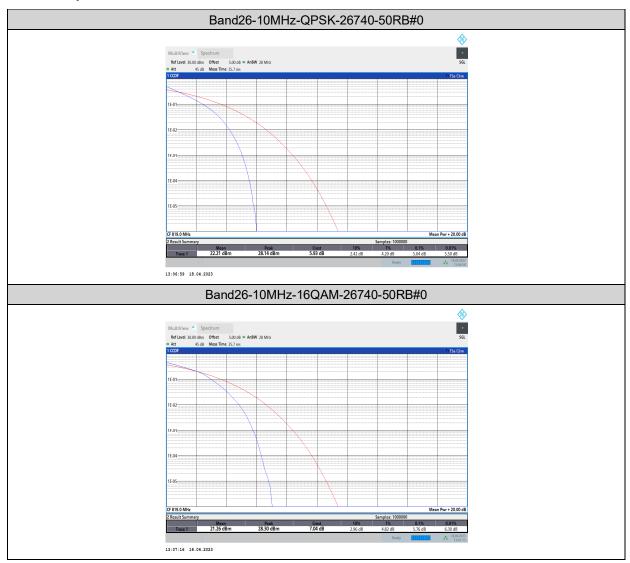
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#### **Test Graphs**





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#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS



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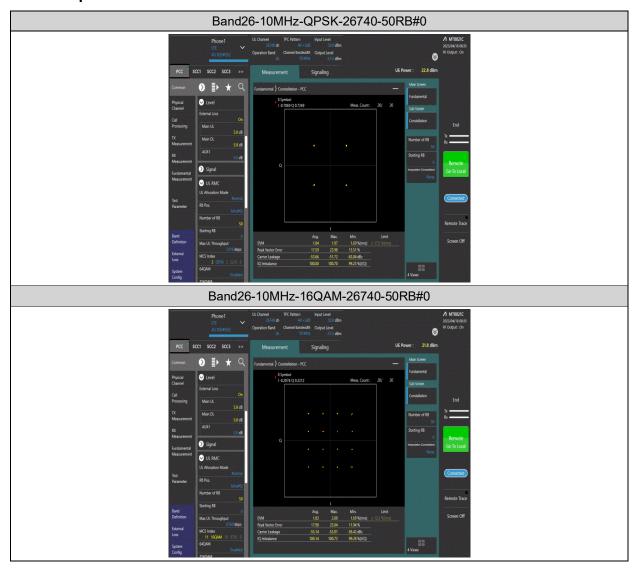
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#### **Test Graphs**





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### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.085	1.28	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.085	1.28	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.085	1.28	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.096	1.30	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.096	1.31	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.096	1.31	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.691	2.93	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.691	2.92	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.694	2.92	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.685	2.93	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.683	2.92	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.684	2.94	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.467	4.83	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.467	4.85	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.465	4.85	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.465	4.86	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.462	4.87	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.86	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.928	9.60	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.910	9.54	PASS



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#### **Test Graphs**





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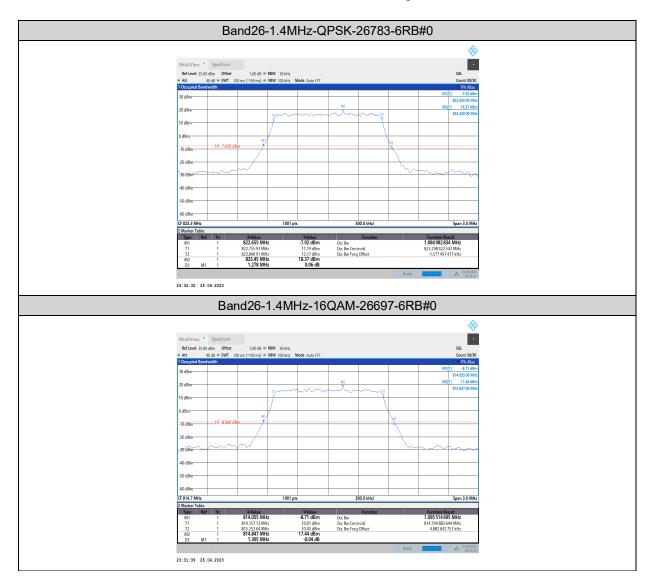
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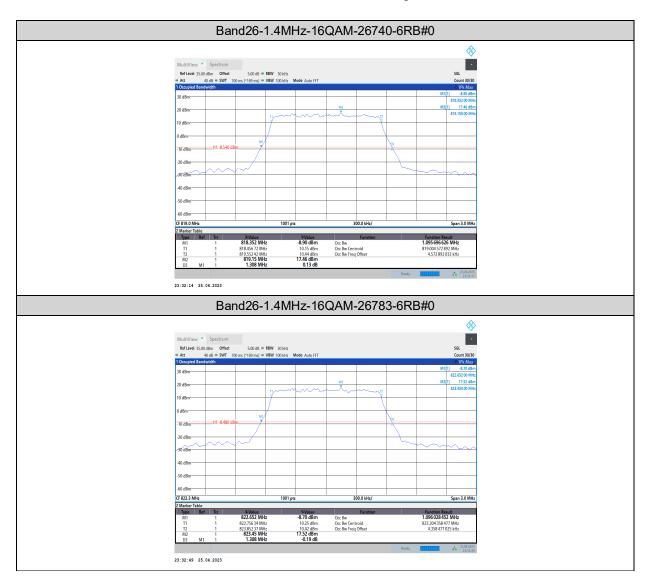
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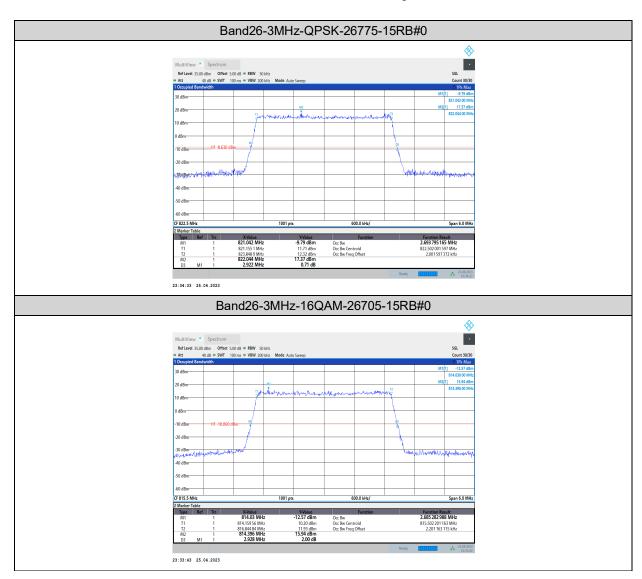
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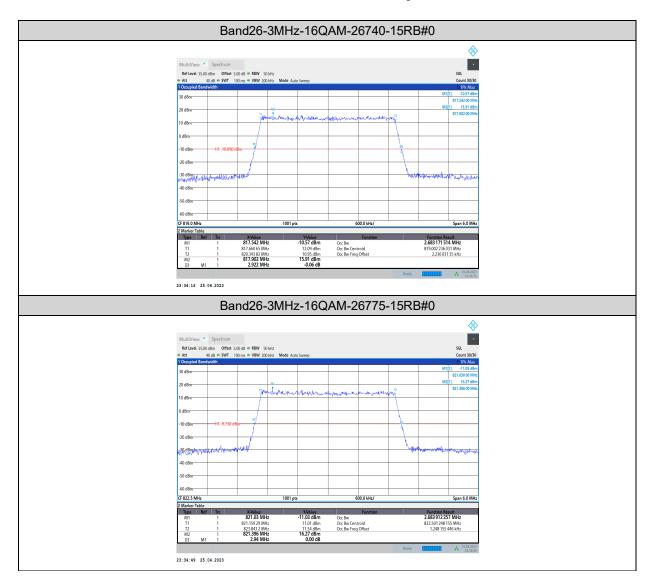
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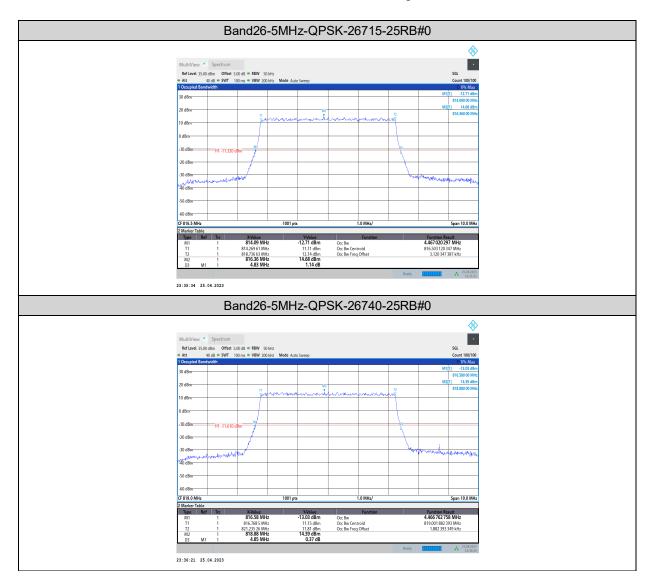
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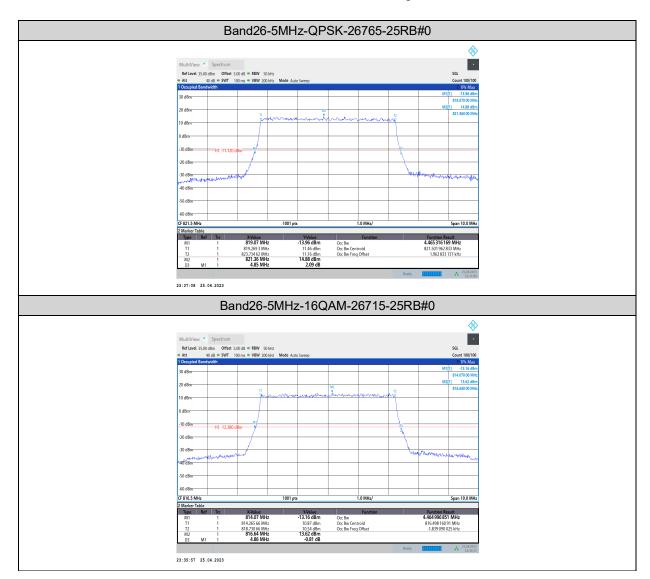
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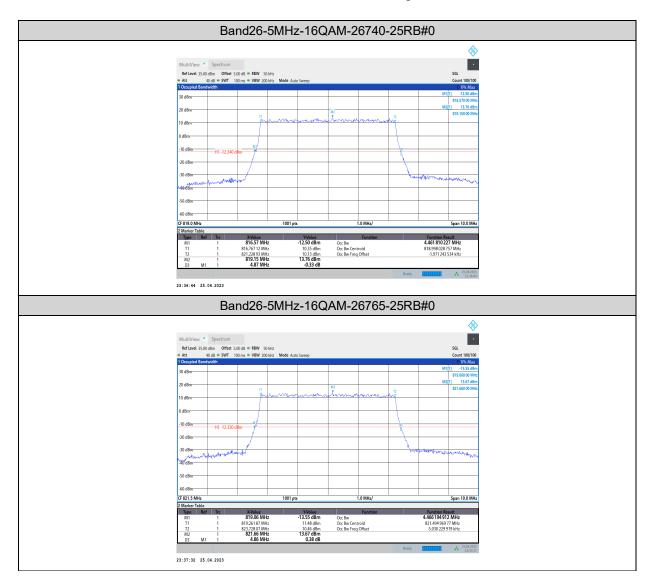
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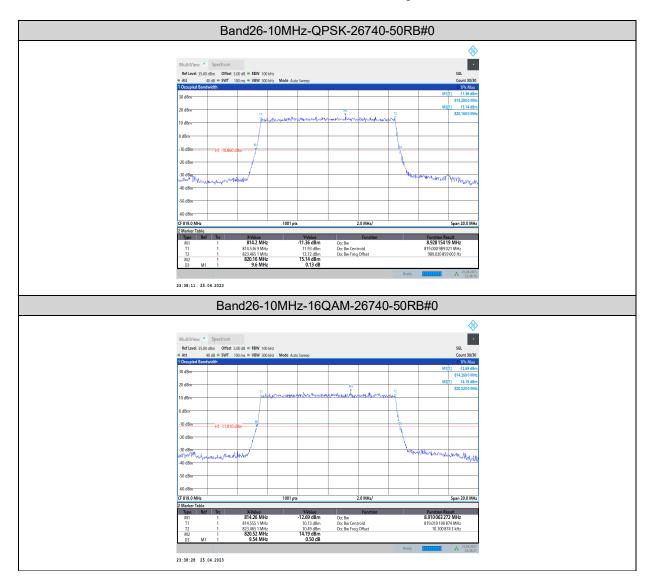
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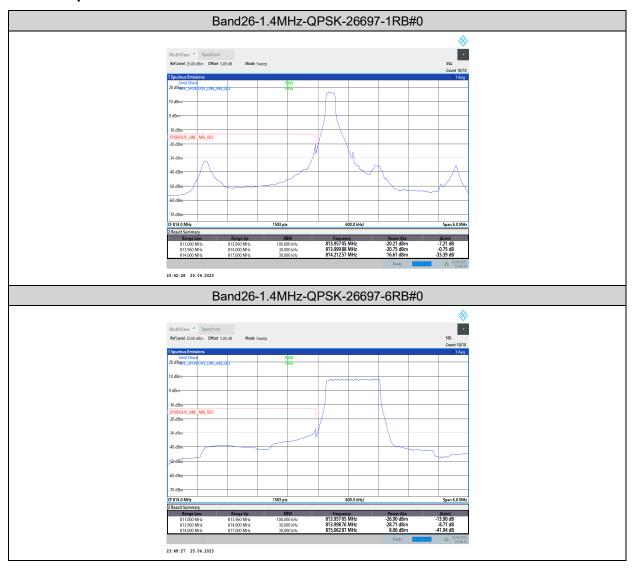
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#### **Band Edge**

#### **Test Graphs**





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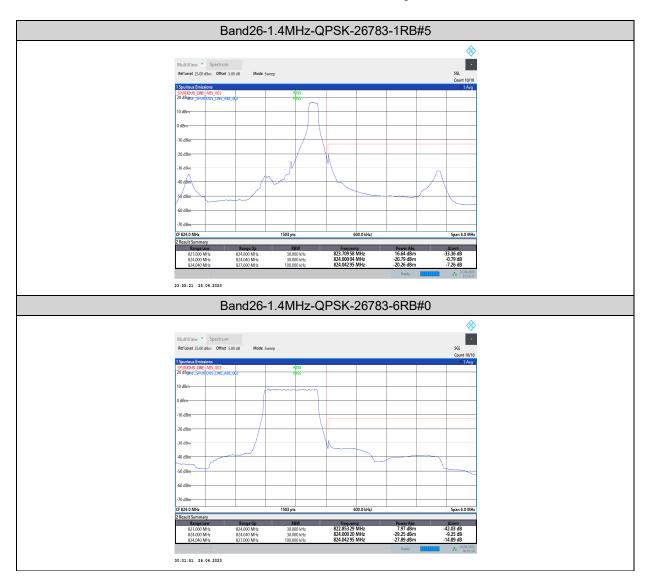
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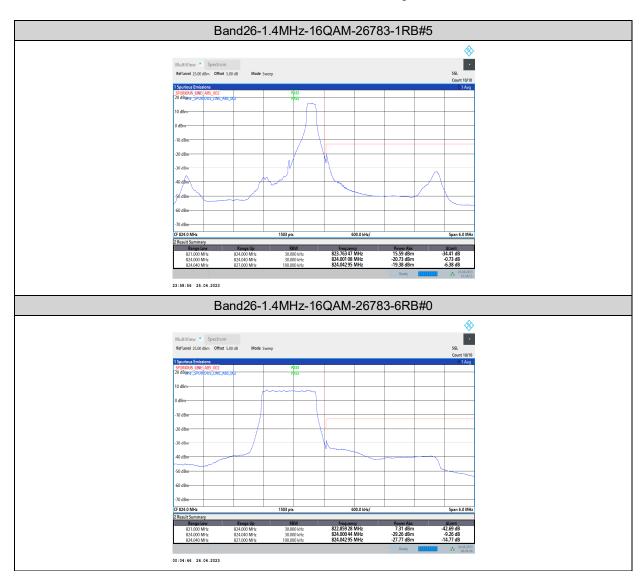
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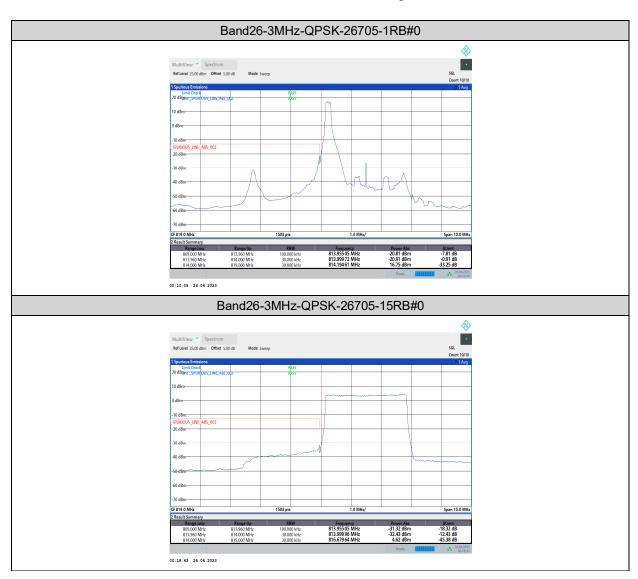
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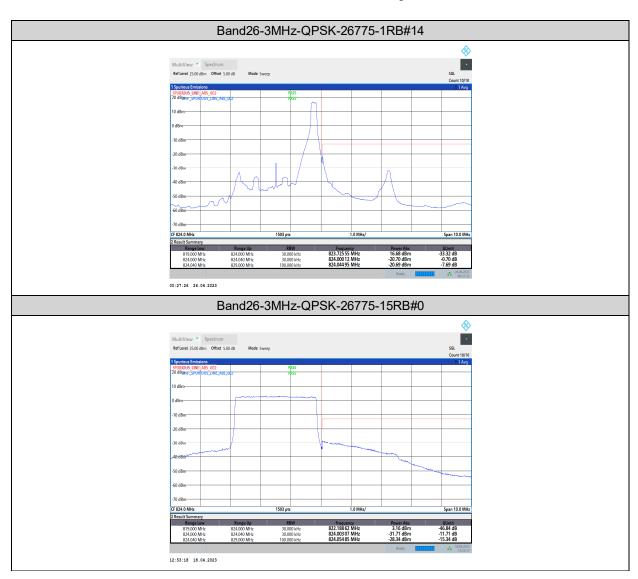
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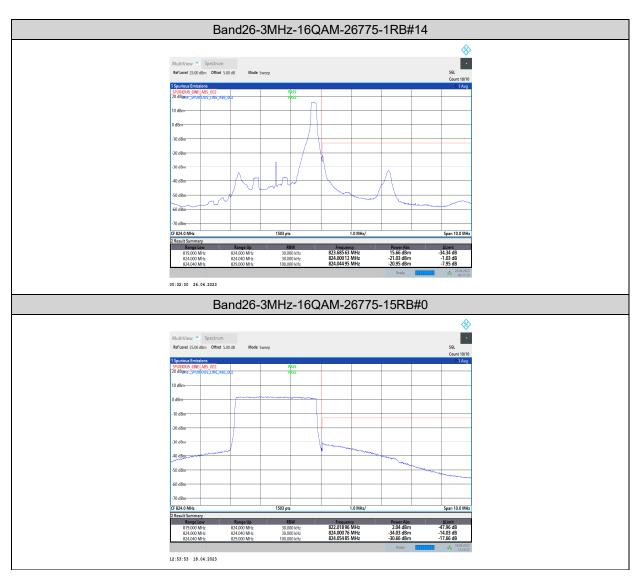
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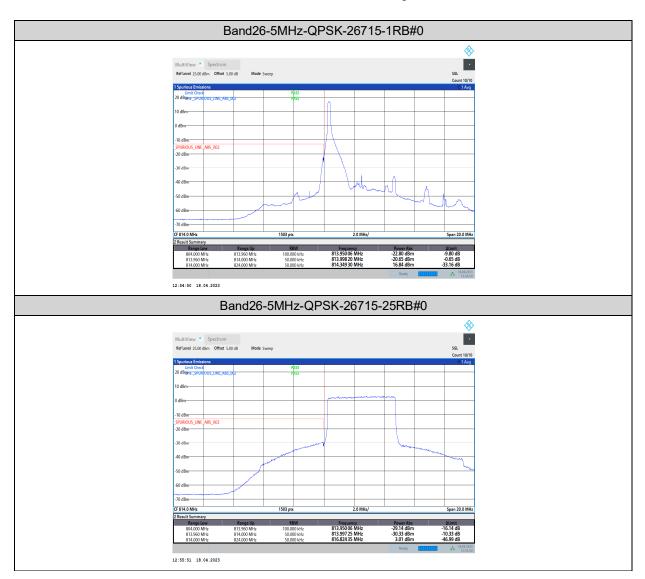
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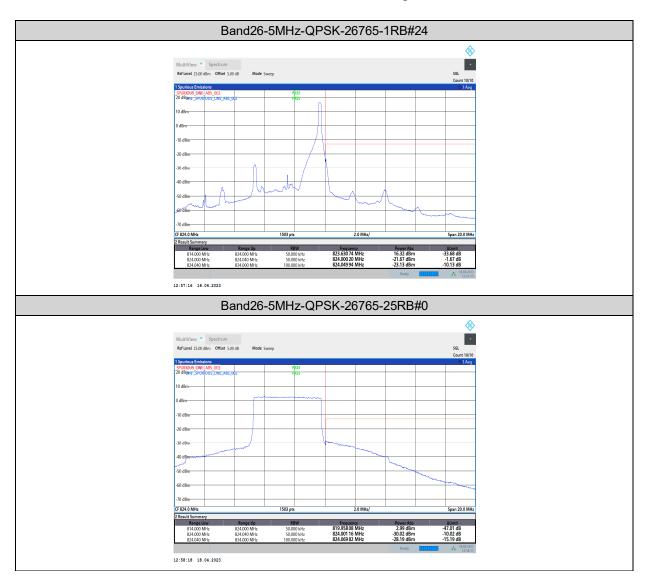
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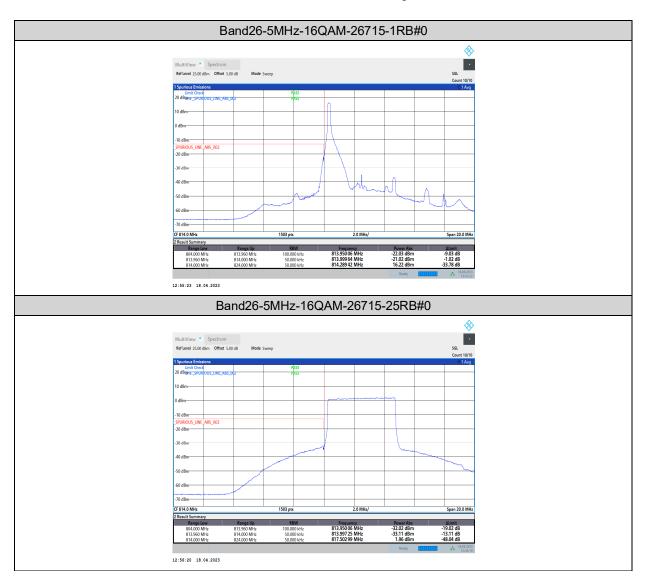
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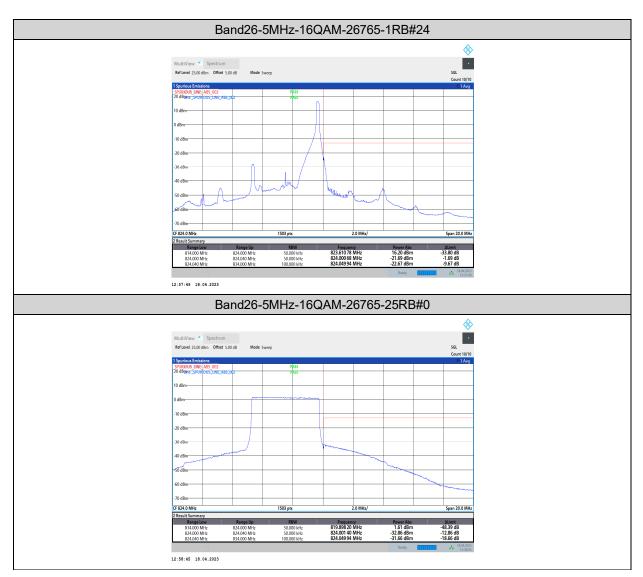
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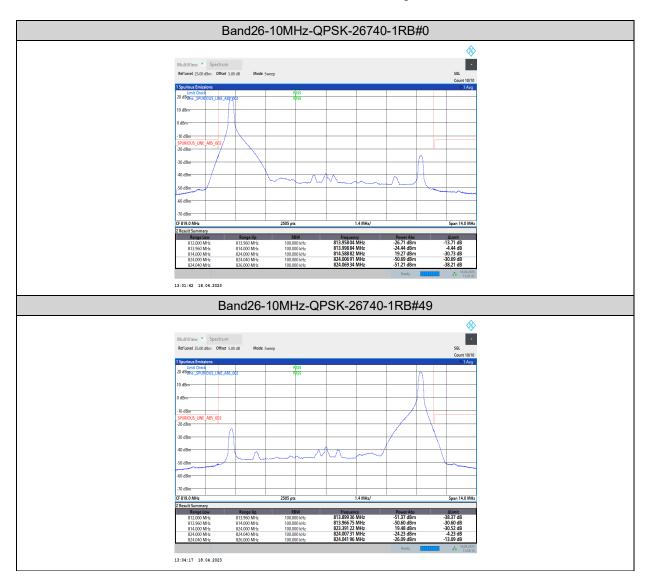
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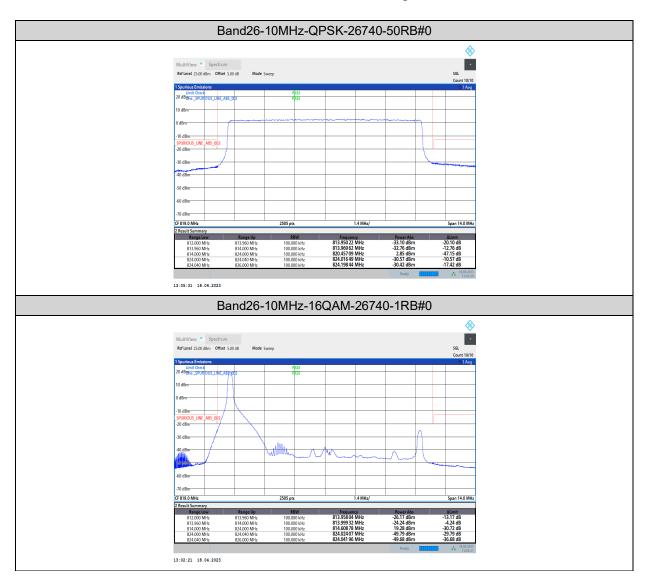
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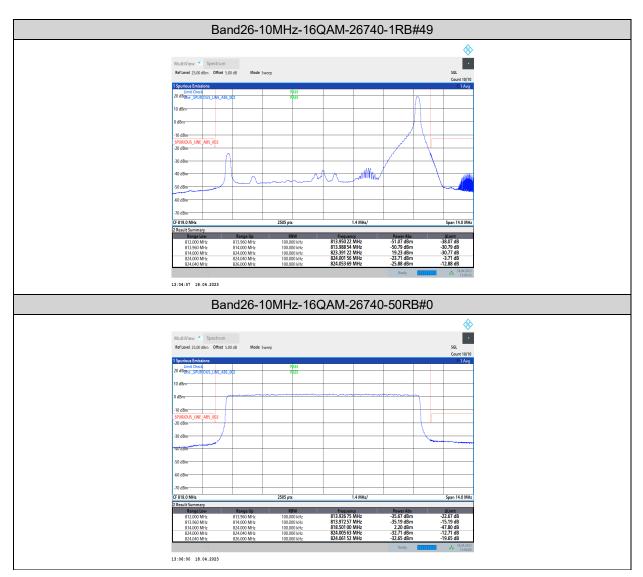
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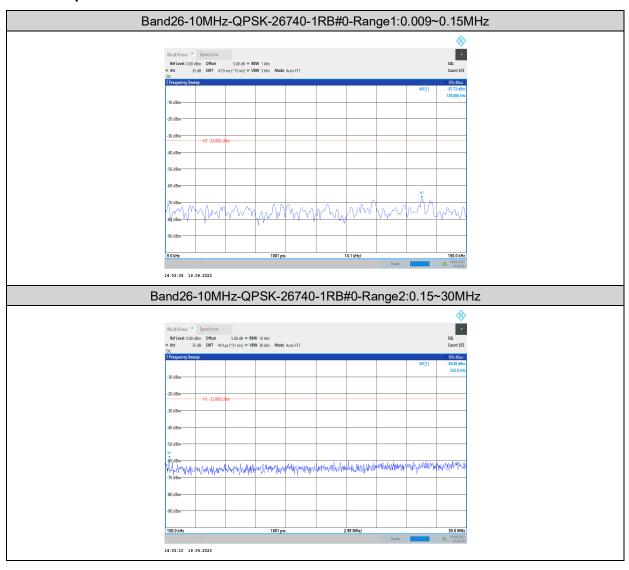
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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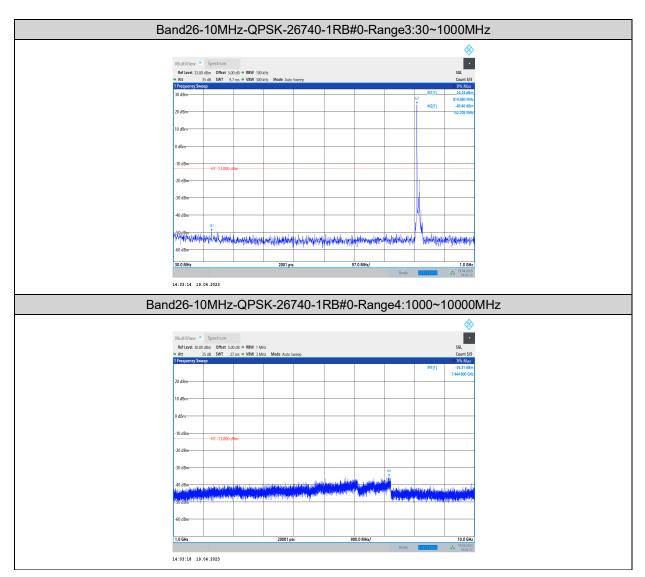
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#### **Field Strength of Spurious Radiation**

Test Band = LTE\_B26\_10MHz \_TM1
Test Channel = MCH

Final	Data List									
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[	Angle	
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity
1	1628.9894	66.31	-53.08	25.86	-56.17	-13.00	43.17	365	186	Horizontal
2	2443.8984	73.17	-51.36	27.89	-45.56	-13.00	32.56	254	186	Horizontal
3	3258.2931	58.27	-49.86	30.62	-56.23	-13.00	43.23	189	126	Horizontal
4	5068.1162	52.23	-44.43	33.44	-54.02	-13.00	41.02	263	331	Horizontal
5	8055.4302	49.85	-41.66	37.59	-49.48	-13.00	36.48	253	87	Horizontal
6	9562.8447	48.13	-39.73	39.13	-47.73	-13.00	34.73	336	331	Horizontal

Final	Data List									
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[	Angle	
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity
1	1629.2466	62.97	-53.07	25.86	-59.50	-13.00	46.50	256	126	Vertical
2	2443.8984	72.44	-51.36	27.89	-46.29	-13.00	33.29	325	93	Vertical
3	3905.283	54.82	-48.51	30.63	-58.32	-13.00	45.32	230	140	Vertical
4	5136.5182	51.99	-44.24	33.57	-53.94	-13.00	40.94	226	13	Vertical
5	7376.2965	50.37	-42.65	36.85	-50.69	-13.00	37.69	325	39	Vertical
6	8992.4855	49.53	-40.81	38.75	-47.79	-13.00	34.79	201	358	Vertical

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level



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### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-4.20	-0.005128	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-5.10	-0.006227	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-7.00	-0.008547	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-7.70	-0.009402	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-2.60	-0.003175	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-8.50	-0.010379	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-6.40	-0.007814	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-10.20	-0.012454	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-8.00	-0.009768	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-6.90	-0.008425	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-6.80	-0.008303	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-7.90	-0.009646	PASS

---End of Attachment---



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