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Appendix B.9

LTE Band 26(814-824)



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Transmitter Conducted Power Output

Test ResultAnt1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.78	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.84	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.73	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.81	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.89	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.88	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.81	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.86	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.86	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.94	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.89	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.91	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.97	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.10	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.02	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.91	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.12	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.08	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.93	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.16	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.25	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.08	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.98	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.93	50.00	PASS



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Band26	1.4MHz	64QAM	26697	1RB#2	22.04	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	21.91	50.00	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.84	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	22.04	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.08	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.02	50.00	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.80	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	22.11	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.15	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	22.07	50.00	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.91	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.84	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.85	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.94	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.88	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.94	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.86	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.82	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.95	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.99	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.94	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.96	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	23.03	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.16	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.01	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.12	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.94	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.19	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.16	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.14	50.00	PASS
	_		_	_			



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Band26	3MHz	16QAM	26740	15RB#0	21.97	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.20	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.25	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	23.09	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	22.03	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#0	22.02	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#8	22.03	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.12	50.00	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.90	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.11	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.07	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.99	50.00	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.96	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#0	22.13	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#8	22.14	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#14	22.06	50.00	PASS
Band26	3MHz	64QAM	26775	15RB#0	21.04	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.91	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.92	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.90	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	23.00	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.98	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.88	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.93	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.95	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.89	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.94	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.93	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	23.02	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.26	50.00	PASS



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Band26	5MHz	16QAM	26715	1RB#12	23.22	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.18	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.98	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.18	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.16	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.28	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	22.00	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	23.22	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	23.26	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	23.14	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	22.04	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#0	22.07	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#12	22.14	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#24	22.18	50.00	PASS
Band26	5MHz	64QAM	26715	25RB#0	21.00	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#0	22.11	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#12	22.08	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#24	22.11	50.00	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.95	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#0	22.08	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.16	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#24	22.08	50.00	PASS
Band26	5MHz	64QAM	26765	25RB#0	21.03	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.92	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.89	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.90	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.96	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.22	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.24	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.09	50.00	PASS



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Band26	10MHz	16QAM	26740	50RB#0	21.98	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.17	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#24	22.11	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#49	22.08	50.00	PASS
Band26	10MHz	64QAM	26740	50RB#0	21.02	50.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.96	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.76	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.26	13	PASS



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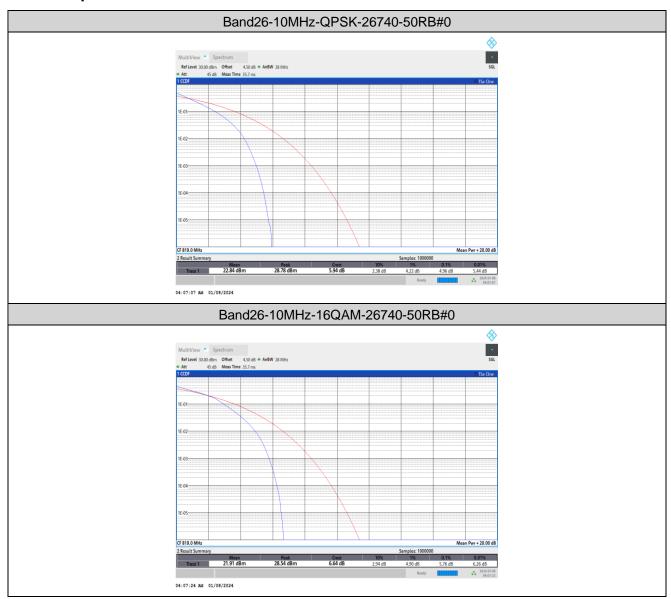


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Test Graphs





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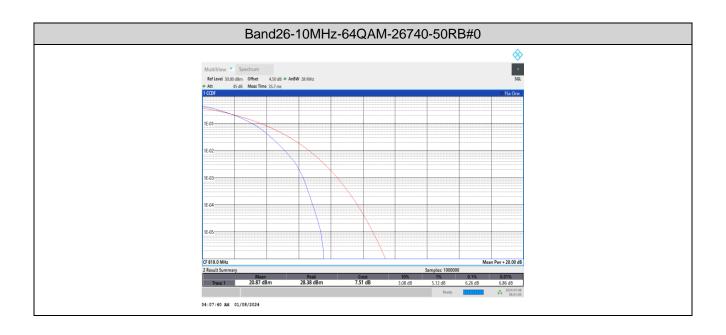
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26740	6RB#0	1.084	1.23	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.096	1.24	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.693	2.89	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.687	3.00	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.685	2.98	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.469	4.86	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.461	4.90	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.468	4.89	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.916	9.32	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.9	9.66	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.913	9.64	PASS



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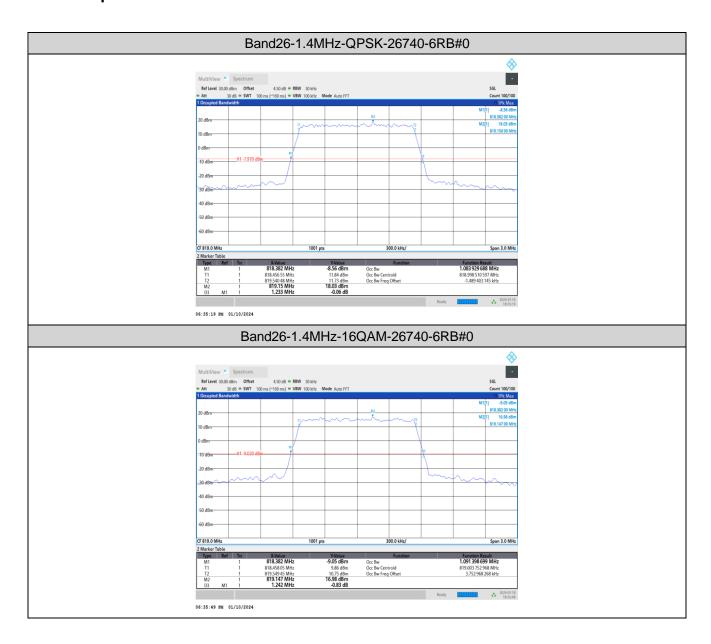


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Test Graphs





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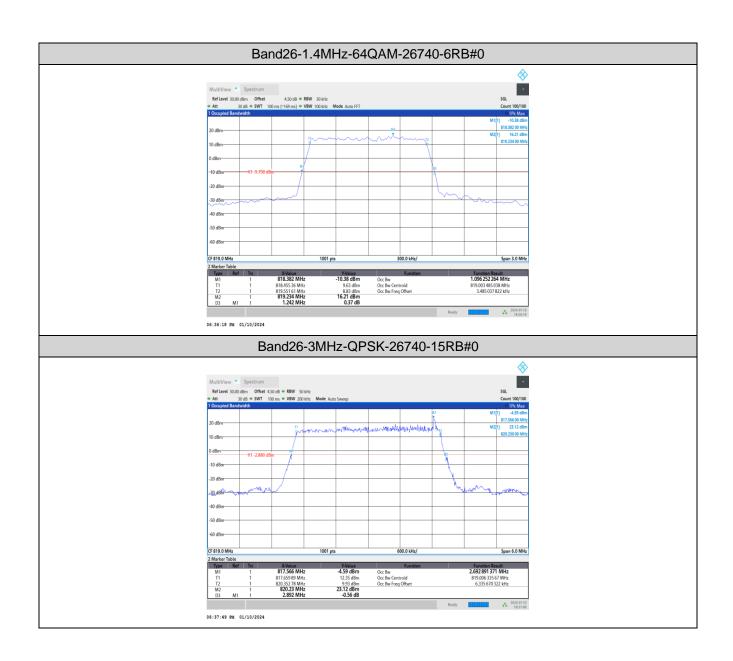
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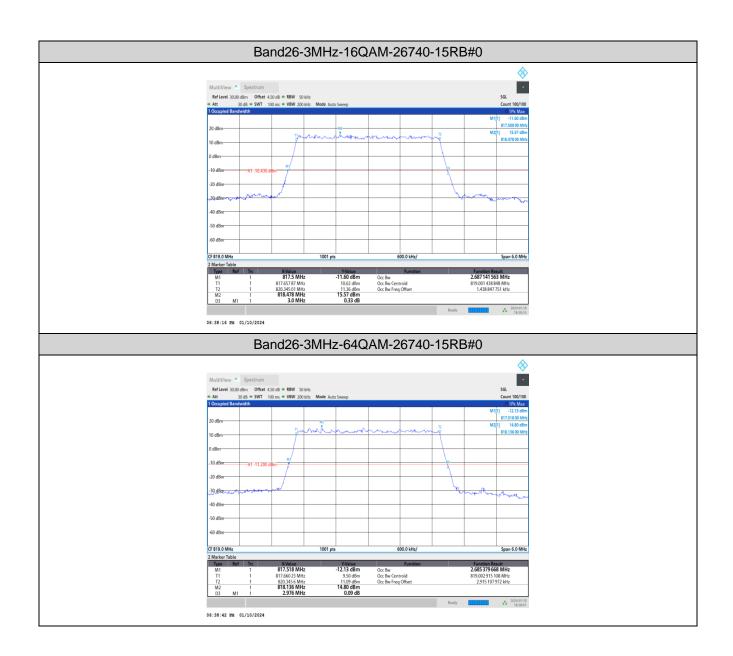
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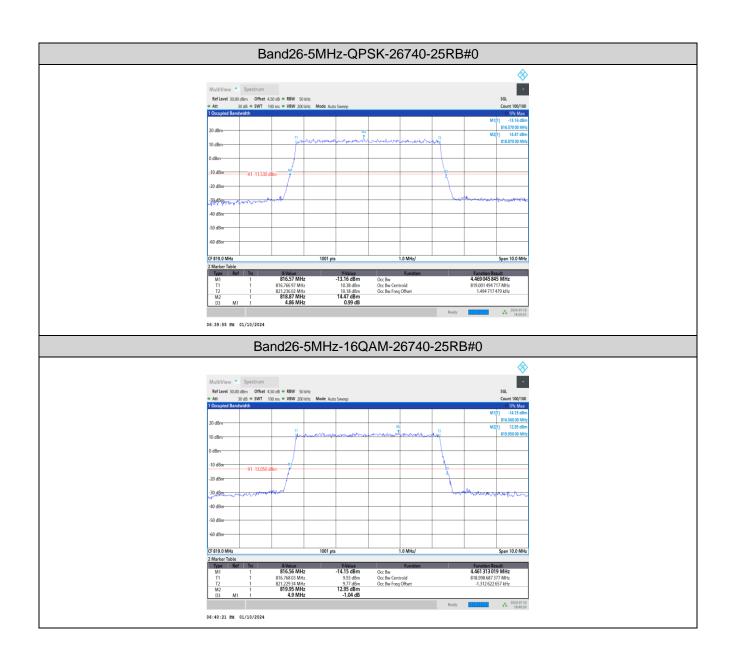
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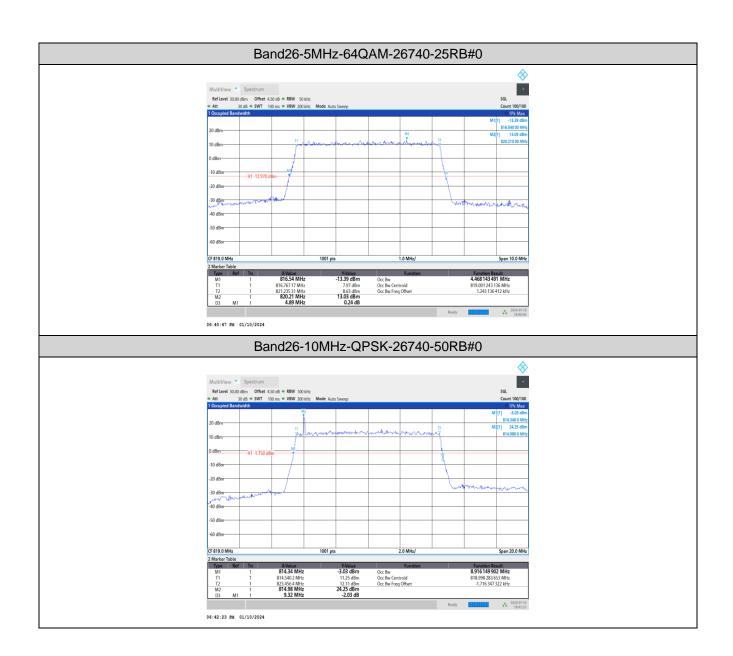
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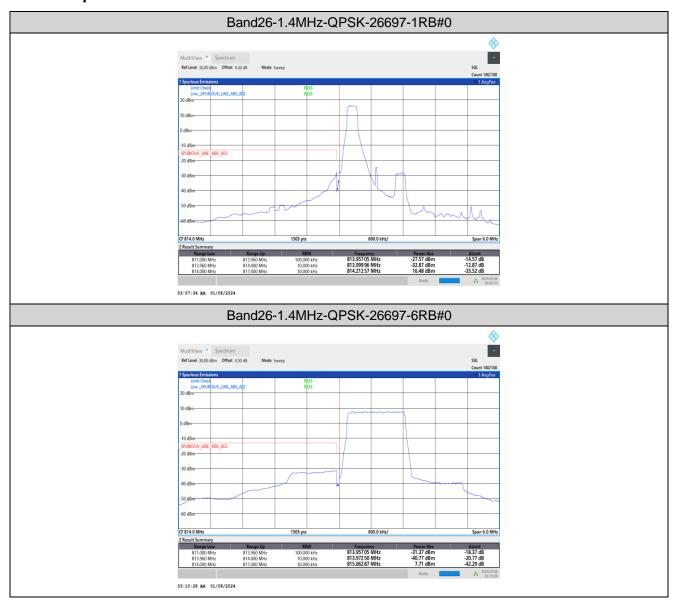
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Band Edge

Test Graphs





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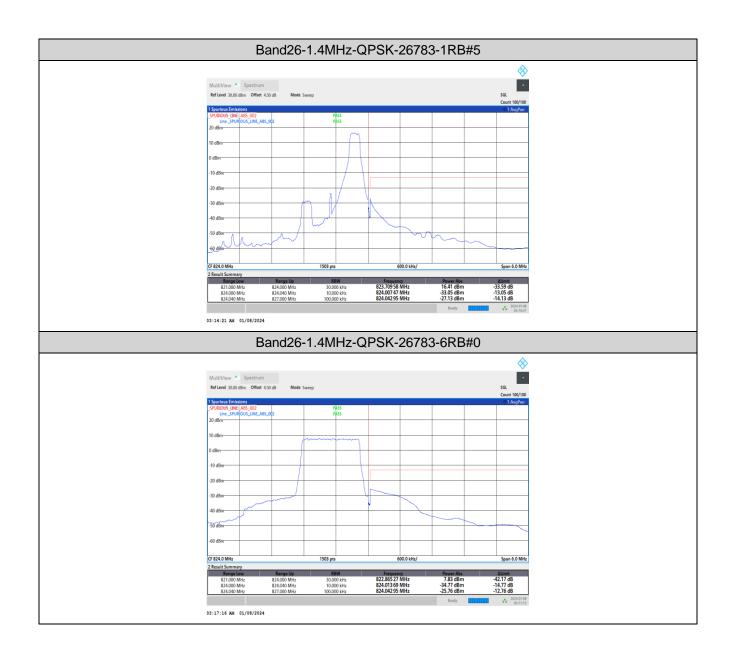
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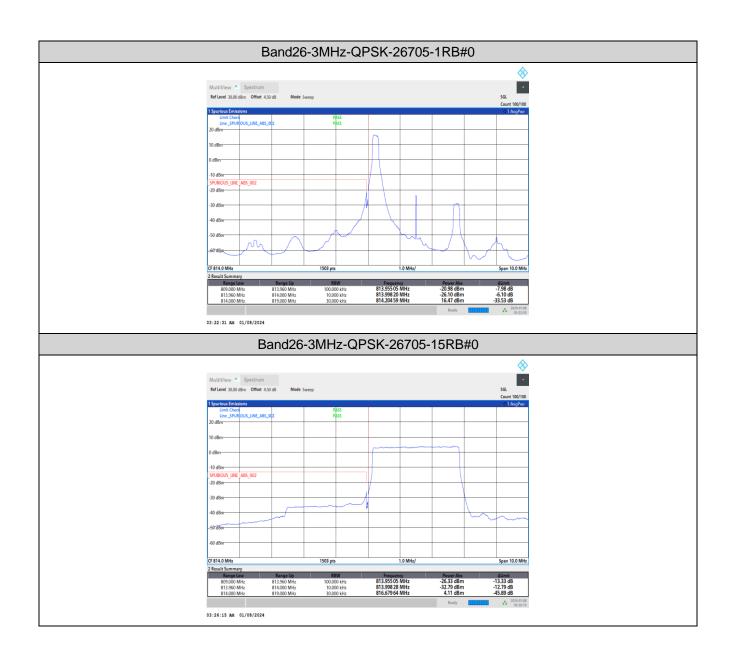
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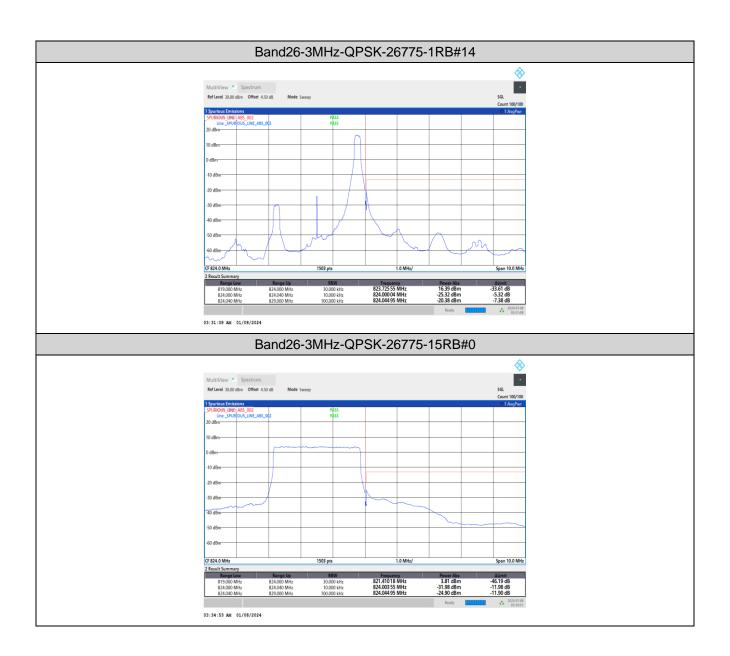
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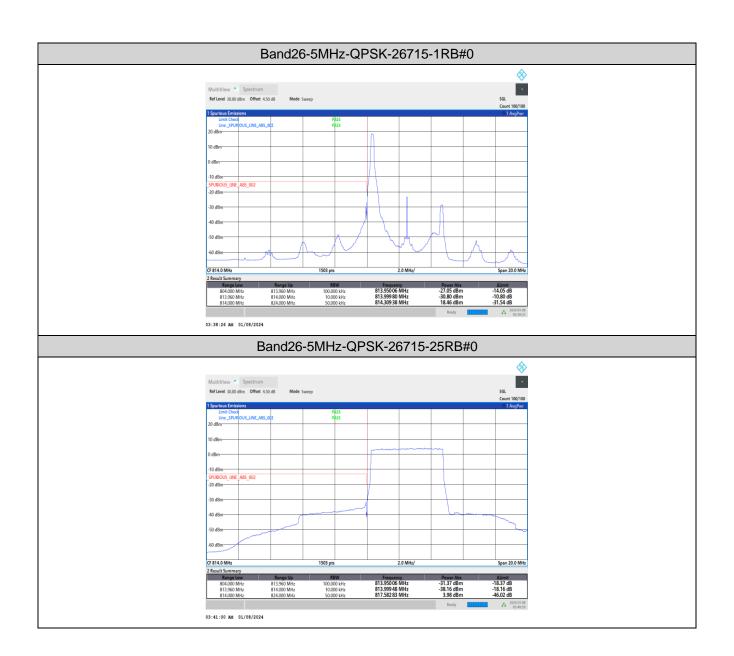
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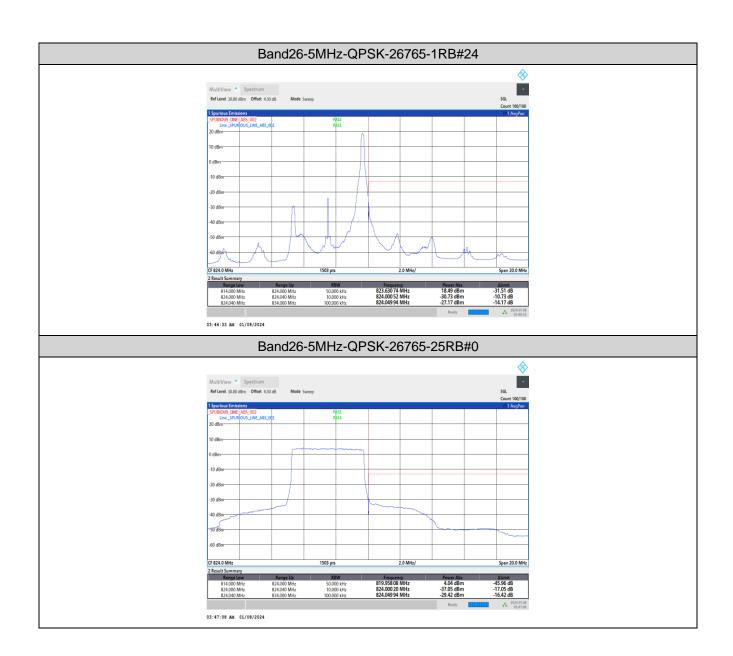
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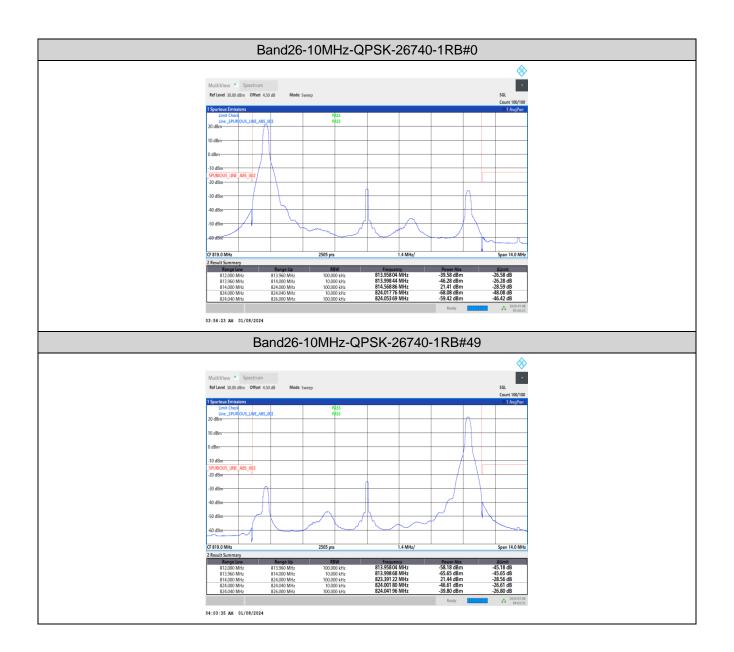
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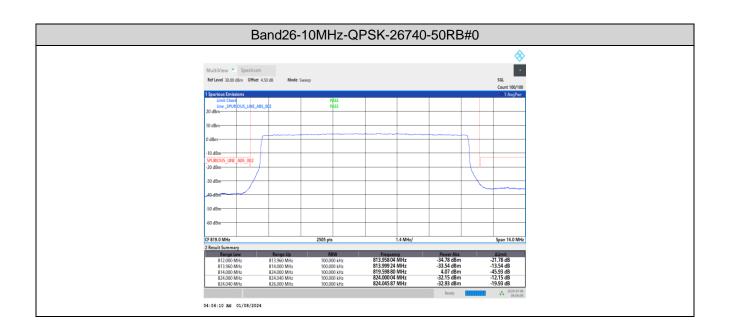
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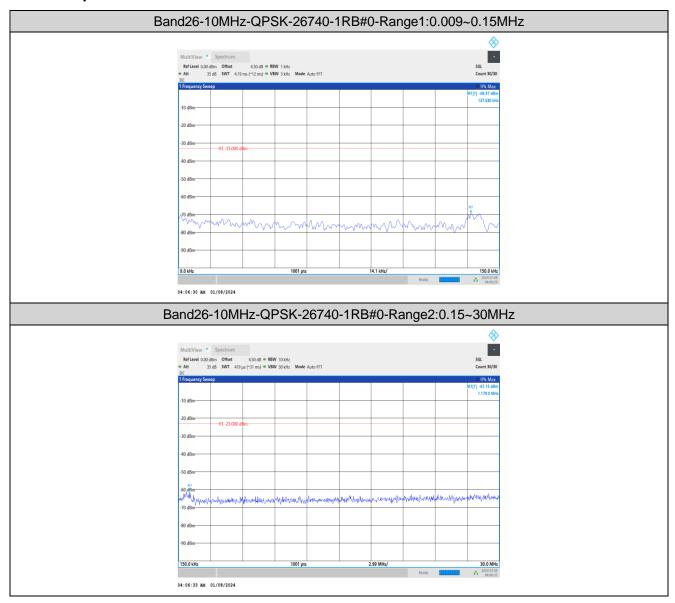
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Conducted Spurious Emission

Test Graphs





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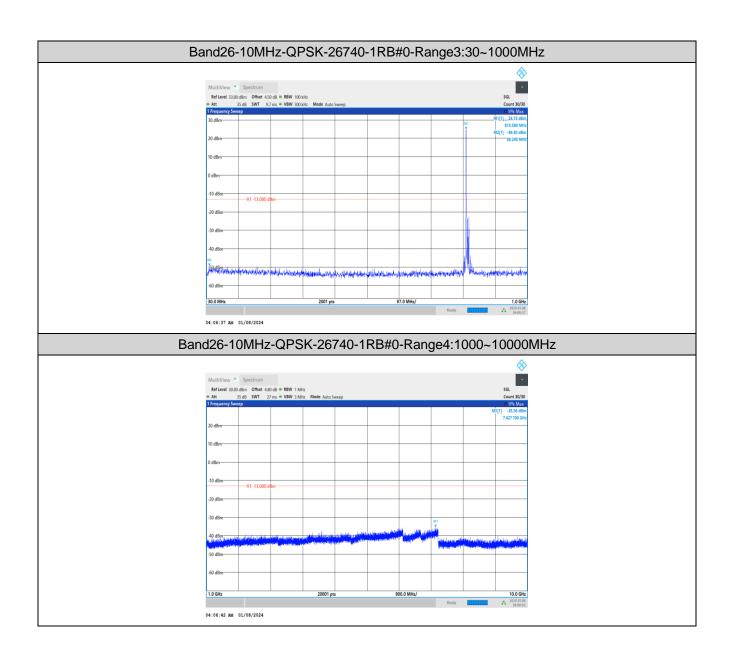
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Field Strength of Spurious Radiation

Test Band = LTE Band 26 BW 10M_ TM1 Test Channel = Mid Channel

Final	Data List							
NO	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Doloritu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	1629.18	39.15	-46.71	24.60	-78.22	-13.00	65.22	Horizontal
2	2443.77	33.77	-45.13	27.28	-79.34	-13.00	66.34	Horizontal
3	3258.36	32.00	-43.69	29.55	-77.40	-13.00	64.40	Horizontal
4	4072.95	31.58	-42.49	31.42	-74.75	-13.00	61.75	Horizontal
5	4887.54	31.39	-41.48	32.95	-72.40	-13.00	59.40	Horizontal
6	5702.13	31.78	-40.46	33.79	-70.16	-13.00	57.16	Horizontal

Final	Final Data List											
NO	Frequency	Reading	Factor	∧ ⊏[-I□ /1	Level	Limit	Margin	Delevite				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity				
1	1629.18	39.56	-46.71	24.60	-77.81	-13.00	64.81	Vertical				
2	2443.77	37.30	-45.13	27.28	-75.81	-13.00	62.81	Vertical				
3	3258.36	32.10	-43.69	29.55	-77.30	-13.00	64.30	Vertical				
4	4072.95	30.65	-42.49	31.42	-75.68	-13.00	62.68	Vertical				
5	4887.54	30.29	-41.48	32.95	-73.50	-13.00	60.50	Vertical				
6	5702.13	31.82	-40.46	33.79	-70.12	-13.00	57.12	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	2.70	0.003297	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-0.80	-0.000977	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	3.80	0.004640	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-3.00	-0.003663	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.80	-0.002198	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	2.30	0.002808	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	3.20	0.003907	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-1.40	-0.001709	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.30	-0.001587	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	1.00	0.001221	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	5.70	0.006960	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	3.20	0.003907	PASS

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