

Report No.: SEWM2208000146RG04

Rev.:

Page: 1 of 40

# Appendix B.8

LTE Band 26(814-824)



South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

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Report No.: SEWM2208000146RG04

Rev.: 01 Page: 2 of 40

#### **Transmitter Conducted Power Output**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.86	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.98	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.85	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.95	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.88	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	24.02	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.87	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.98	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.91	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	24.04	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.91	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	23.02	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	23.07	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.25	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.09	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	22.02	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.05	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.22	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.06	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.01	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.08	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.26	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.14	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	22.1	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.92	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	22.19	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	22.04	50	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.94	50	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01 Page: 3 of 40

				Pa	ge: 3 01	40	
Band26	1.4MHz	z 64QAM 26		1RB#0	22.03	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.17	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.04	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.97	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	22.06	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.26	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	22.07	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	21.02	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.88	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.87	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.87	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.9	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.9	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.9	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.92	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.94	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.92	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.92	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.93	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.96	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.11	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.1	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.13	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.88	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.17	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.15	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.22	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.93	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.13	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.2	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	23.22	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.96	50	PASS
Band26	3MHz	64QAM	26705	1RB#0	22.04	50	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01 Page: 4 of 40

				Pa	ge: 4 of	40	
Band26	3MHz	MHz 64QAM 26		1RB#8	22.09	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.07	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.88	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.04	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.07	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	22.05	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.93	50	PASS
Band26	3MHz	64QAM	26775	1RB#0	22.08	50	PASS
Band26	3MHz	64QAM	26775	1RB#8	22.03	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	22.14	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.97	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.83	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	24.09	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.82	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.95	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.84	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	24.03	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.85	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.98	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.88	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	24.12	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.87	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.97	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.1	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.37	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.94	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.94	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.11	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.27	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.04	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.98	50	PASS
Band26	5MHz	16QAM	26765	1RB#0	23.05	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	23.31	50	PASS
		•	•			•	



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Report No.: SEWM2208000146RG04

Rev.: 01 Page: 5 of 40

				. 4	gc. 5 01	. •	
Band26	5MHz	16QAM	26765	1RB#24	23.16	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.96	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	21.95	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	22.22	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	21.99	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	20.94	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	22.05	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	22.14	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	22.07	50	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.97	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	21.95	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.21	50	PASS
Band26	5MHz	64QAM	26765	1RB#24	22.04	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.98	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.94	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.01	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.95	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	23.04	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.09	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.27	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.2	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	22.02	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.02	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	22.2	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	22.03	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	21.03	50	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 6 of 40

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

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.16	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.86	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.26	13	PASS



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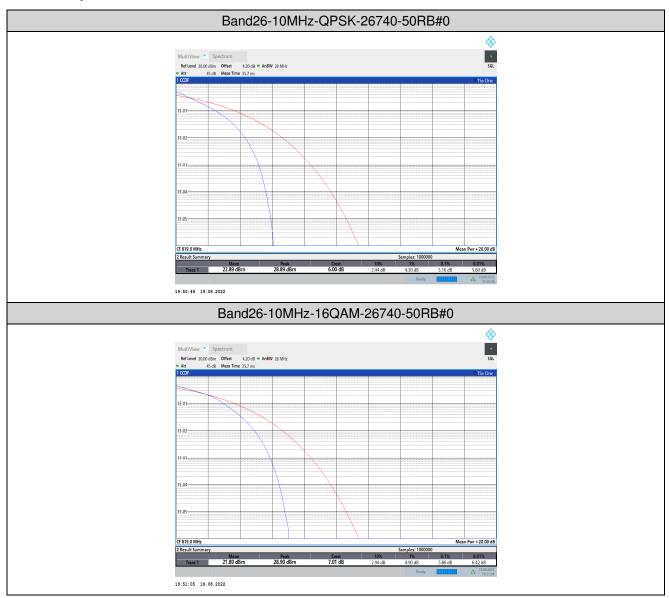


Report No.: SEWM2208000146RG04

Rev.: 01

Page: 7 of 40

#### **Test Graphs**





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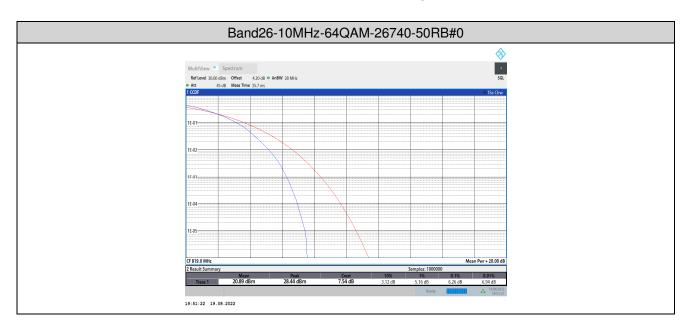
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 8 of 40





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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 9 of 40

#### **Modulation Characteristics**

#### **Test Result**

Ī	Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Ī	Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Ī	Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
ĺ	Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 10 of 40

#### **Test Graphs**





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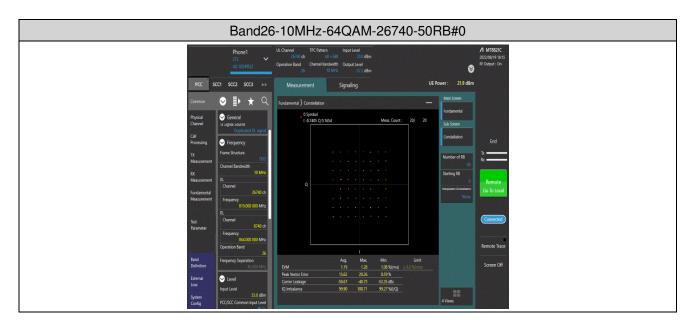
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Rev.: 01

Page: 11 of 40





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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 12 of 40

#### 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	1.084	1.28	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.084	1.27	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.084	1.28	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.097	1.30	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.095	1.30	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.30	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.101	1.31	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.096	1.31	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.096	1.32	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.685	2.90	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.683	2.90	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.684	2.90	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.679	2.91	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.681	2.91	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.679	2.92	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.681	2.90	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.677	2.89	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.682	2.89	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.467	4.82	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.468	4.81	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.466	4.81	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.464	4.85	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.464	4.84	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.461	4.82	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.474	4.84	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.471	4.83	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.474	4.84	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.923	9.56	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.914	9.54	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.922	9.58	PASS



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Report No.: SEWM2208000146RG04

Rev.: 01

13 of 40 Page:



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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 14 of 40

#### **Test Graphs**





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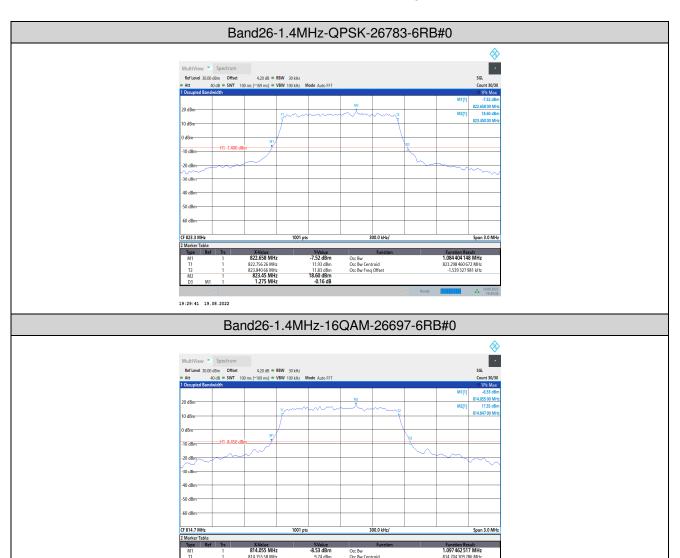
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Page: 15 of 40





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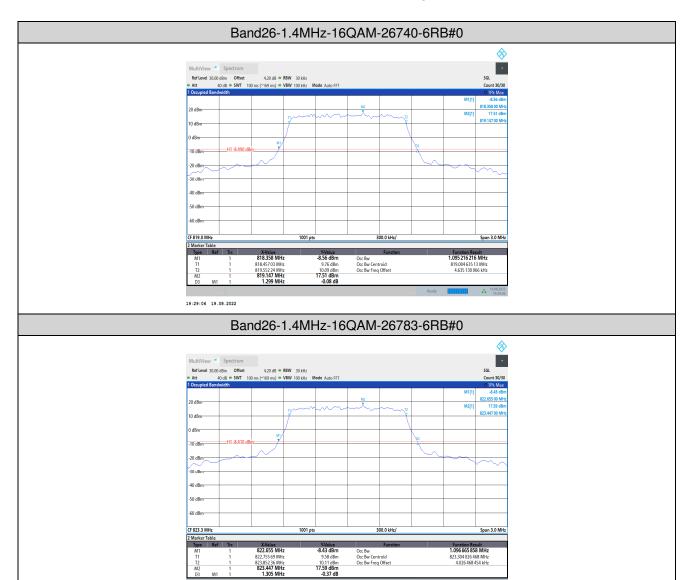
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 16 of 40





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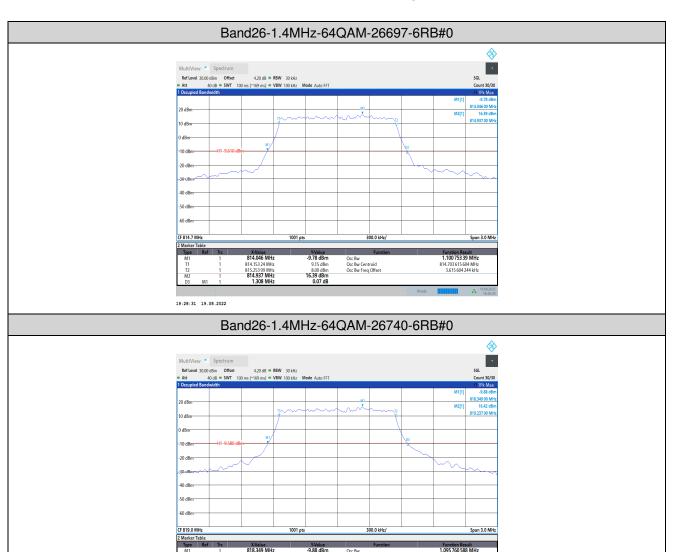
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Rev.: 01

Page: 17 of 40





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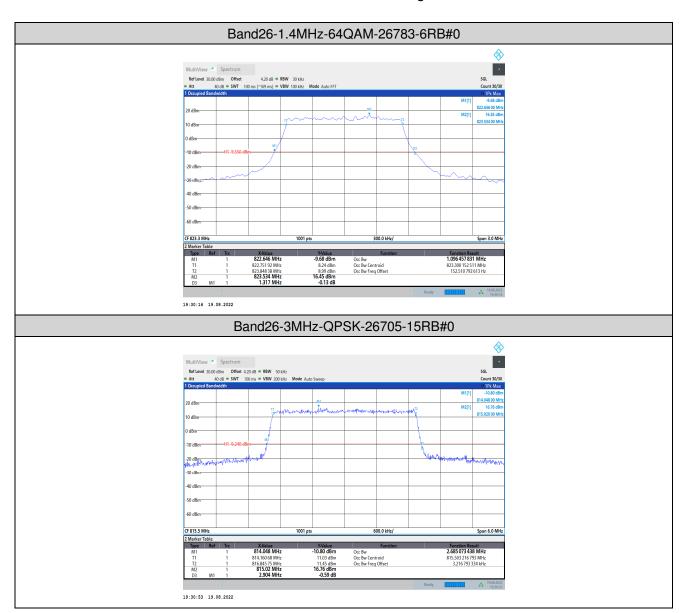
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Rev.: 01

Page: 18 of 40





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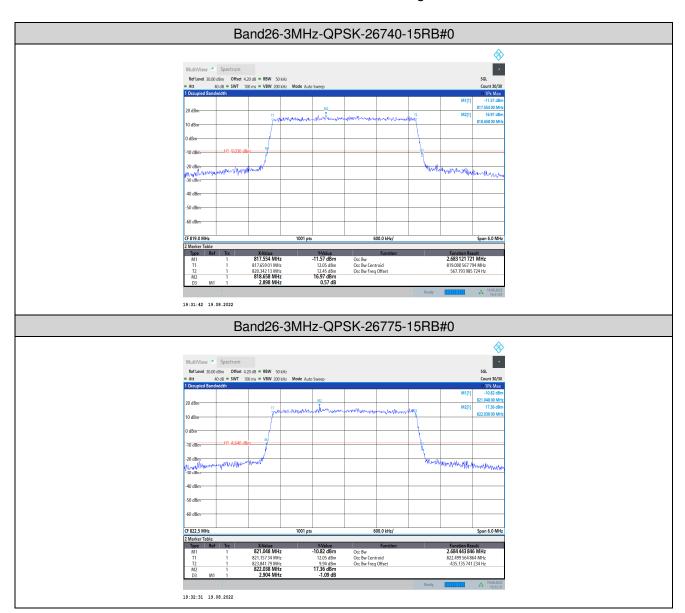
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Rev.: 01

Page: 19 of 40





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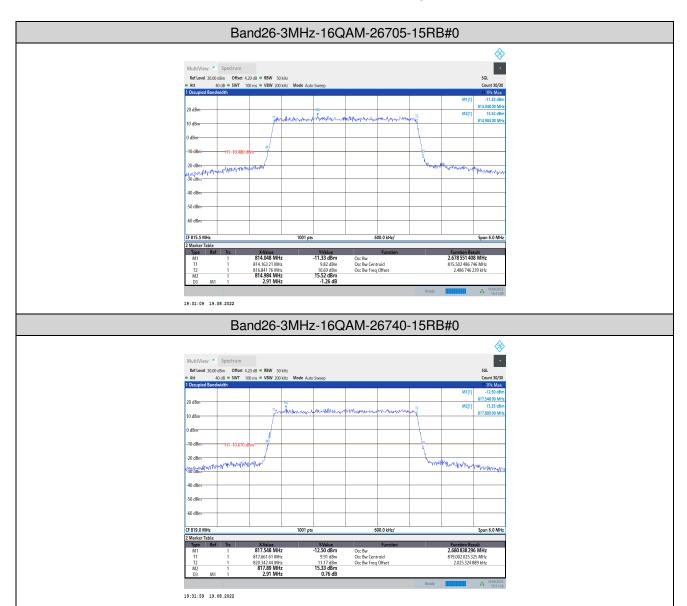
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Rev.: 01

Page: 20 of 40





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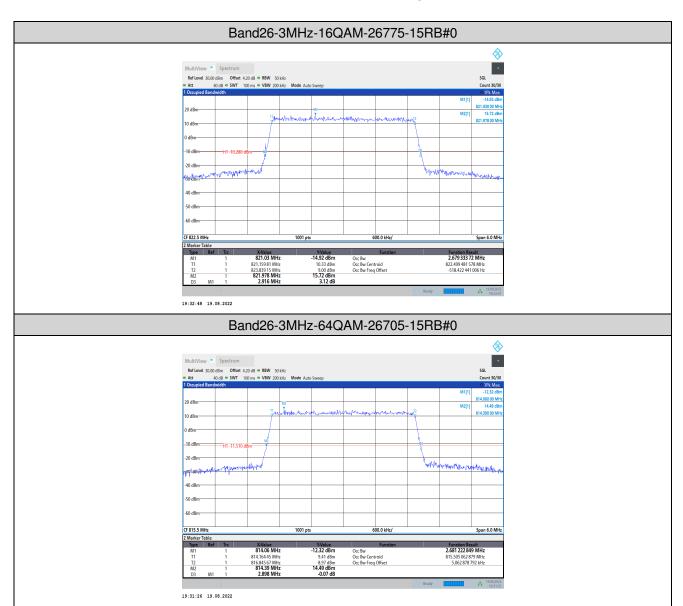
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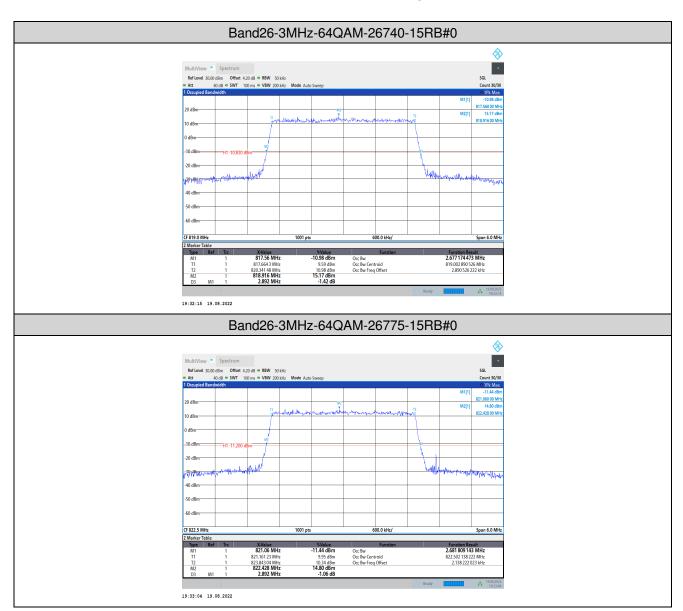
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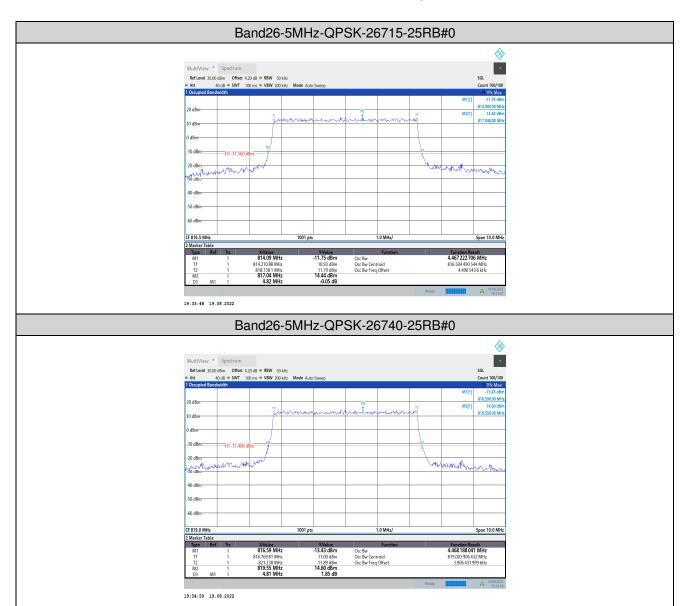
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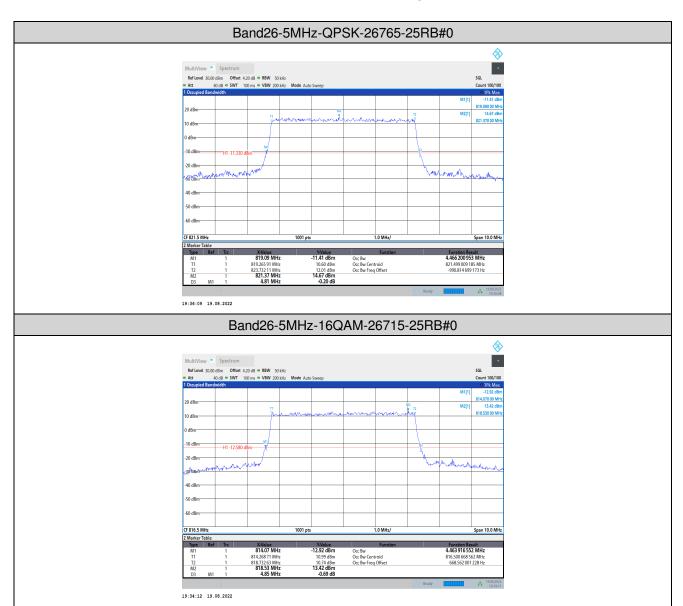
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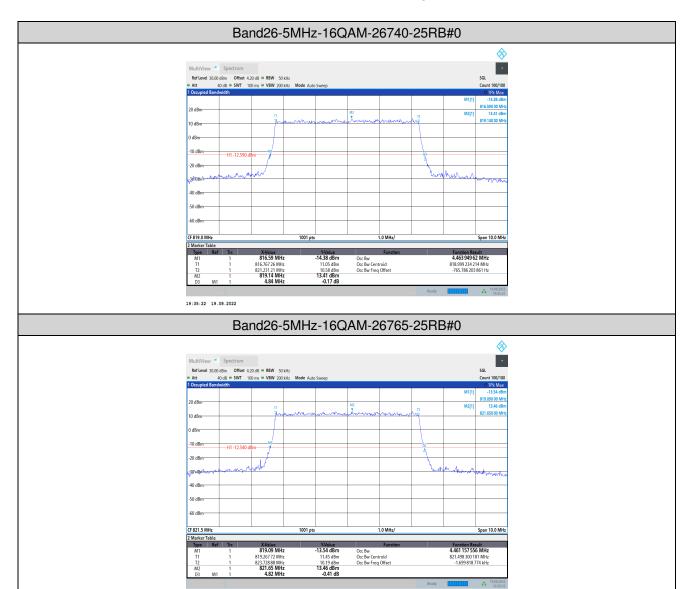
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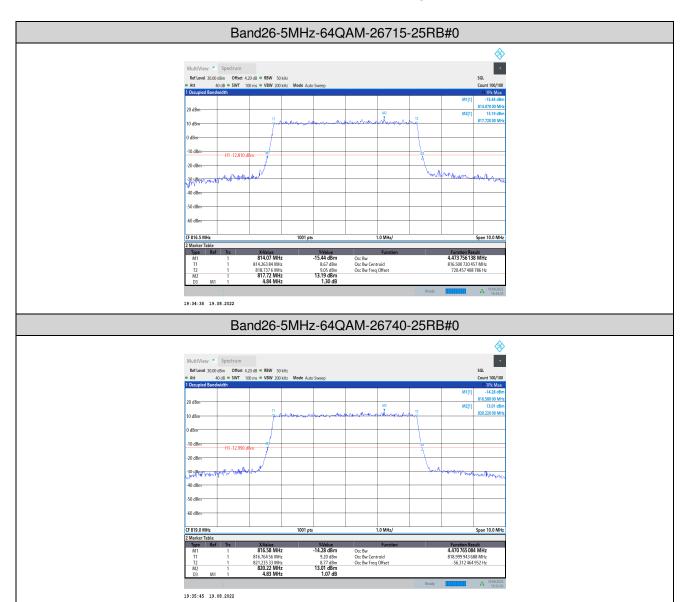
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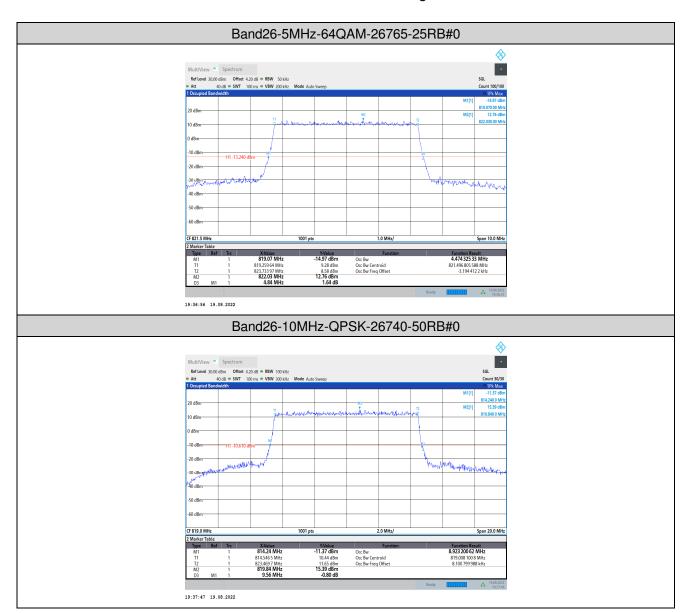
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 27 of 40





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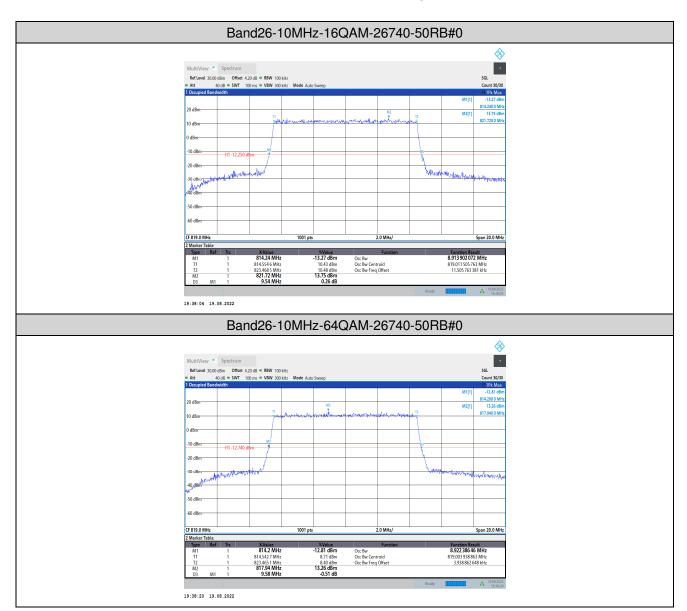
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 28 of 40





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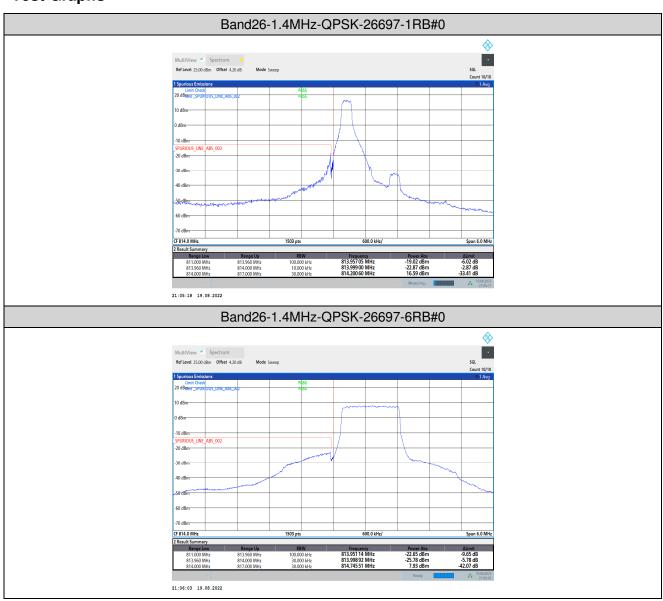
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Rev.: 01

Page: 29 of 40

#### **Band Edge**

#### **Test Graphs**





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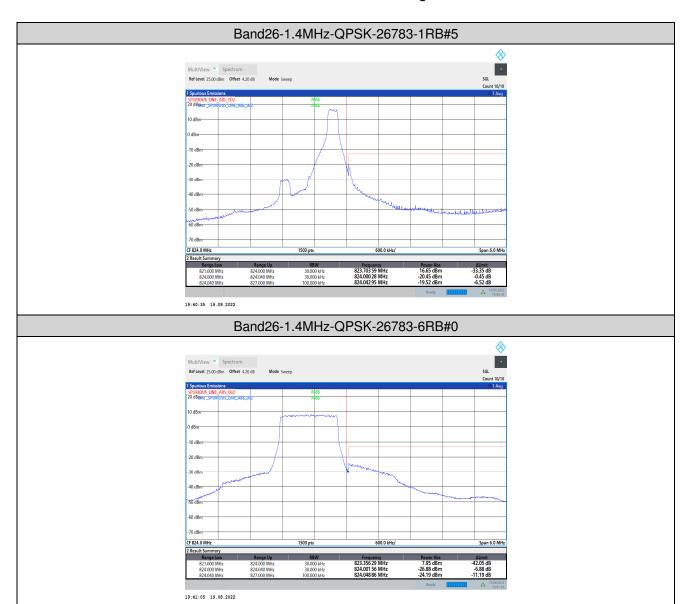
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 30 of 40





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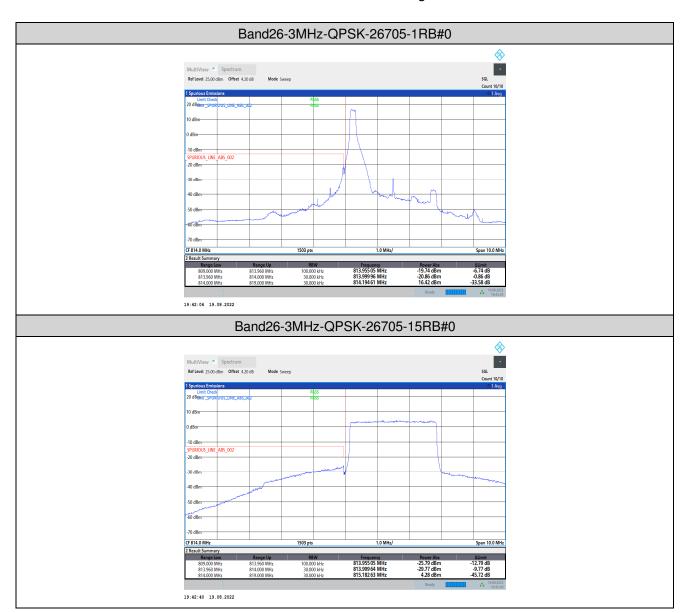
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Rev.: 01

Page: 31 of 40





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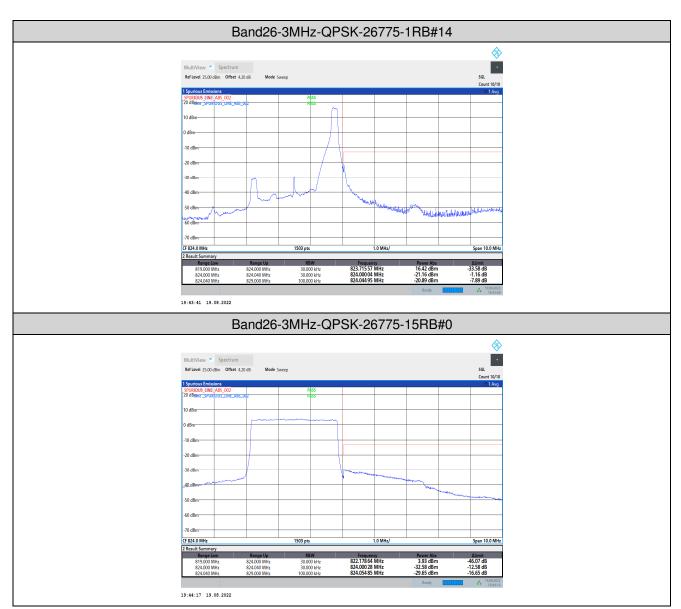
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 32 of 40





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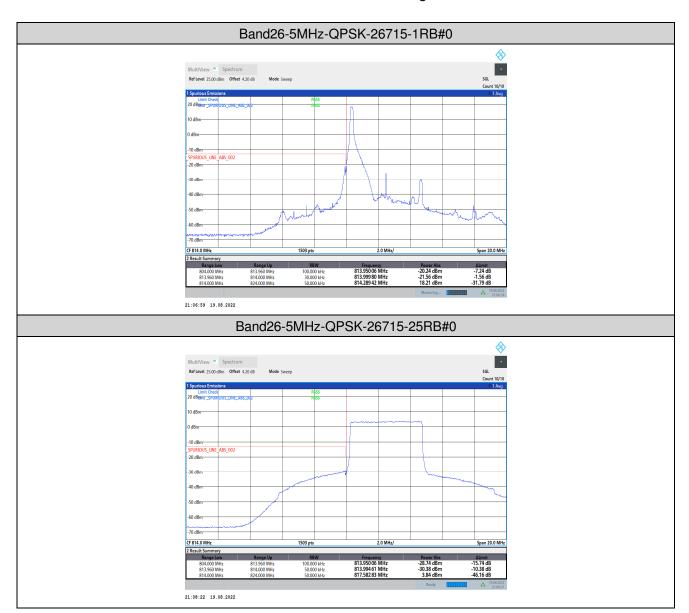
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Rev.: 01

Page: 33 of 40





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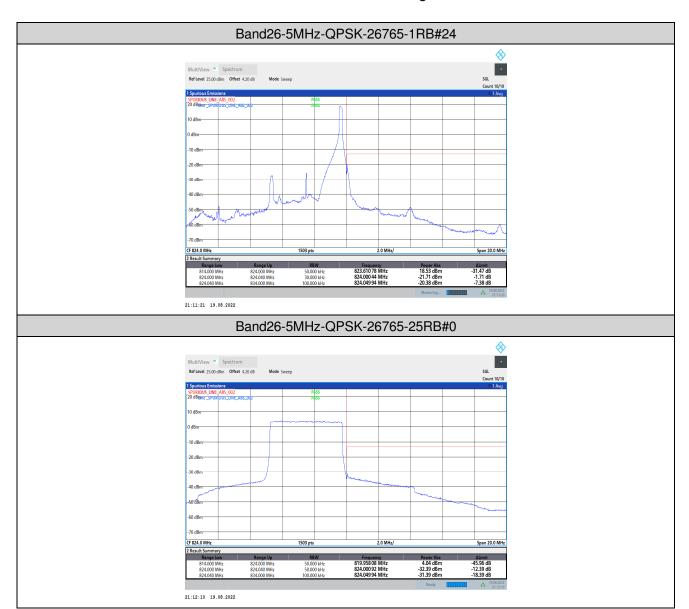
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 34 of 40





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Rev.: 01

Page: 35 of 40





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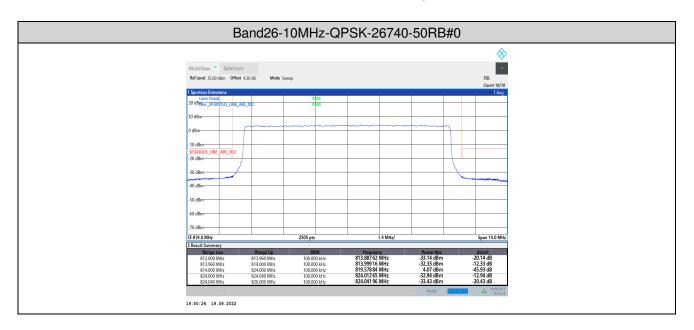
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Page: 36 of 40





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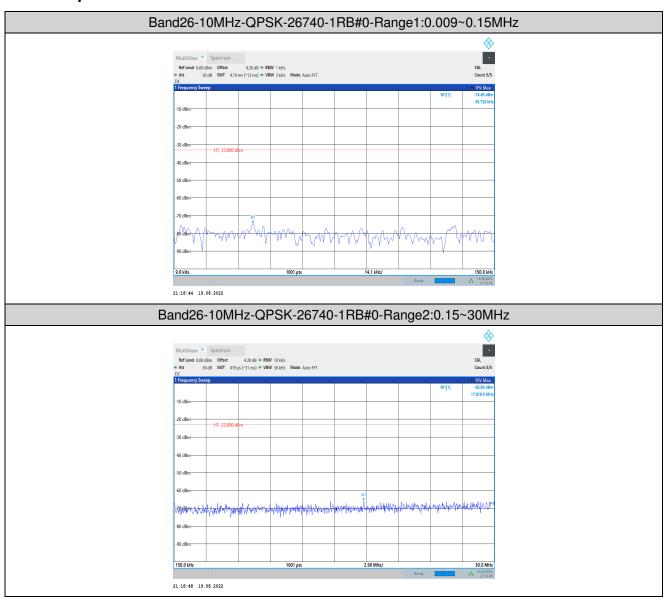
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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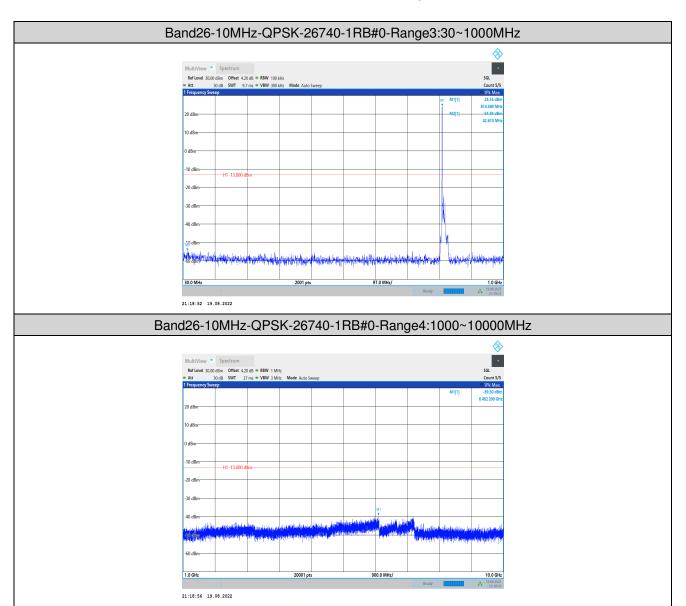
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Report No.: SEWM2208000146RG04

Rev.: 01

Page: 39 of 40

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

Test Band = LTE Band26\_ TM1
Test Channel = Mid

Final	Data List									
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1629.1800	59.02	-48.24	25.36	-59.12	-13.00	46.12	230	282	Horizontal
2	2443.7700	59.39	-47.37	27.59	-55.66	-13.00	42.66	142	282	Horizontal
3	3258.3600	49.83	-46.52	29.61	-62.34	-13.00	49.34	175	360	Horizontal
4	4072.9500	48.65	-45.98	30.91	-61.68	-13.00	48.68	251	215	Horizontal
5	4887.5400	48.73	-45.59	32.57	-59.55	-13.00	46.55	126	26	Horizontal
6	5702.1300	47.97	-44.57	33.39	-58.47	-13.00	45.47	210	215	Horizontal

Final	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1629.1800	58.54	-48.24	25.36	-59.60	-13.00	46.60	150	13	Vertical			
2	2443.7700	56.24	-47.37	27.59	-58.81	-13.00	45.81	150	214	Vertical			
3	3258.3600	50.08	-46.52	29.61	-62.09	-13.00	49.09	150	0	Vertical			
4	4072.9500	49.31	-45.98	30.91	-61.02	-13.00	48.02	150	267	Vertical			
5	4887.5400	49.08	-45.59	32.57	-59.20	-13.00	46.20	150	0	Vertical			
6	5702.1300	47.39	-44.57	33.39	-59.05	-13.00	46.05	150	105	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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Rev.: 01

Page: 40 of 40

#### **Frequency Stability**

#### **Test Result**

					Voltage					
Band	Bandwidt h	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-8.20	-0.010012	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-0.30	-0.000366	±2.5	PASS

				T	emperatu	re				
Band	Bandwidt h	Modulatio n	Channe I	RB Configure	Voltag e [Vdc]	Tempe rature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-9.70	-0.011844	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-0.20	-0.000244	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-7.10	-0.008669	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-5.50	-0.006716	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-4.50	-0.005495	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-8.70	-0.010623	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-4.20	-0.005128	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-6.60	-0.008059	±2.5	PASS

---End of Attachment---



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