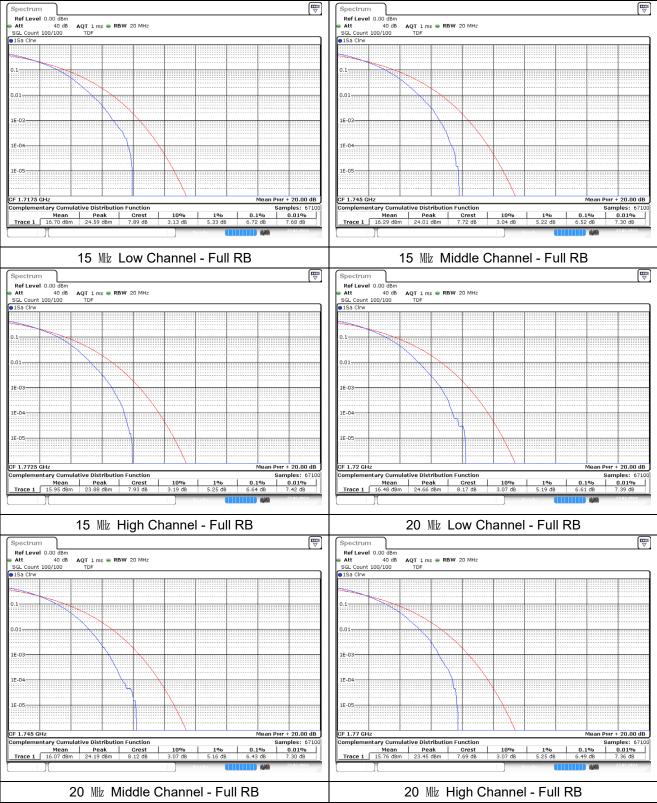


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LTE band 66/4

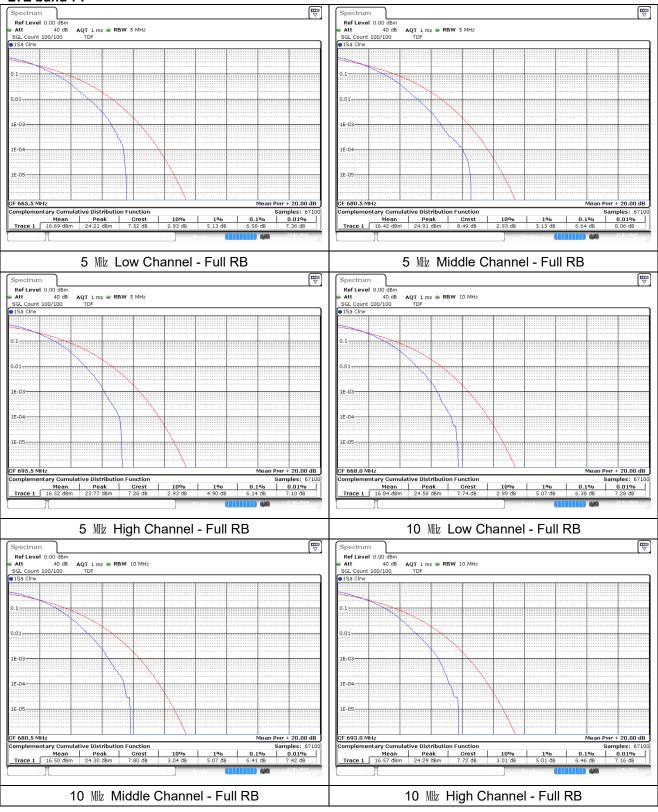




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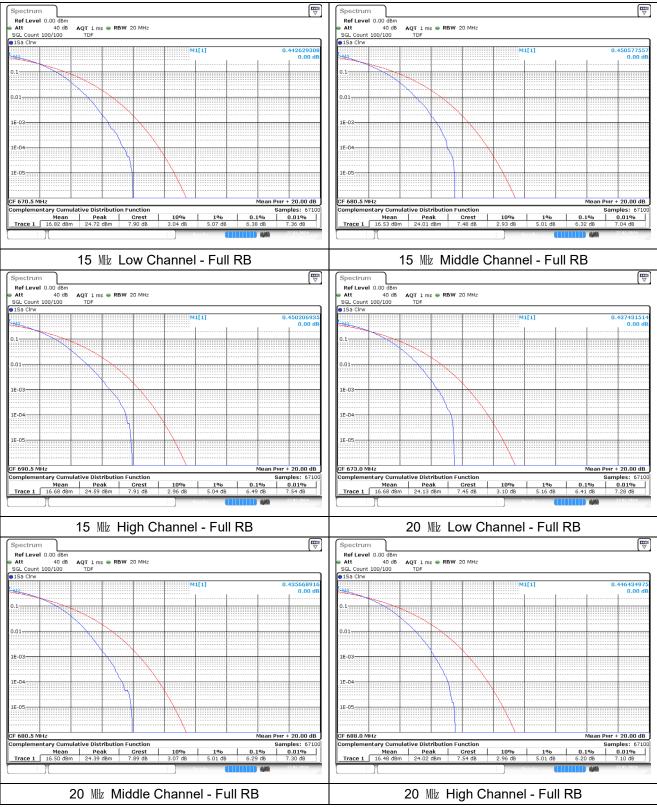




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LTE band 71





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6. Spurious Emissions at Antenna Terminal

6.1. Limit

- \$22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + $10\log(P)$ dB.

- \$24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

- 27.53(c)(2), on any frequency outside the 776-788 Mb band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

- s27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

- \$27.53(h)(1), for operations in the 1 695-1 710 Mb, 1 710-1 755 Mb, 1 755-1 780 Mb, 1 915-1 920 Mb, 1 995-2 000 Mb, 2 000-2 020 Mb, 2 110-2 155 Mb, 2 155-2 180 Mb, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log₁₀ (P) dB.

- $\S27.53(m)(4)$, for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10} (P) dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10} (P) dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 $\log_{10} (P) dB$ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 $\log_{10} (P) dB$ on all frequencies between 2490.5 Mb and 2496 Mb and 55 + 10 $\log_{10} (P) dB$ at or below 2490.5 Mb. Mobile Satellite Service licensees operating on frequencies below 2495 Mb may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

- \$90.543(e), For operations in the 758-768 Mb and the 788-798 Mb bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 Mb and 799-805 Mb, by a factor not less than 76 + 10 log (P) dB in a 6.25 kb band segment, for base and fixed stations.

(2) On all frequencies between 769-775 Mb and 799-805 Mb, by a factor not less than 65 + 10 log (P) dB in a 6.25 kb band segment, for mobile and portable stations.

(3) On any frequency between 775-788 Mz, above 805 Mz, and below 758 Mz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.



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- §90.691(a), out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kt, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log₁₀ (f / 6.1) decibels or 50 + 10 Log₁₀ (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kt.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 Log₁₀ (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

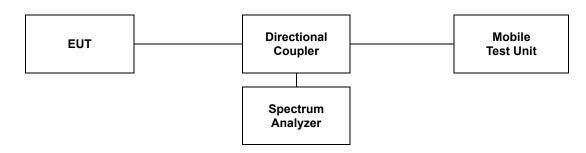


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6.2. Test Procedure

The test follows section 5.7 of ANSI C63.26-2015.

- 1. Start frequency was set to 9 kl/z and stop frequency was set to at least 10* the fundamental frequency.
- 2. Detector = RMS.
- 3. Trace mode = Max hold.
- 4. Sweep time = Auto couple.
- 5. The trace was allowed to stabilize.
- 6. Please see notes below for RBW and VBW settings.
- 7. For plots showing conducted spurious emissions from 9 klz to 27 Glz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.



Note;

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two point, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.



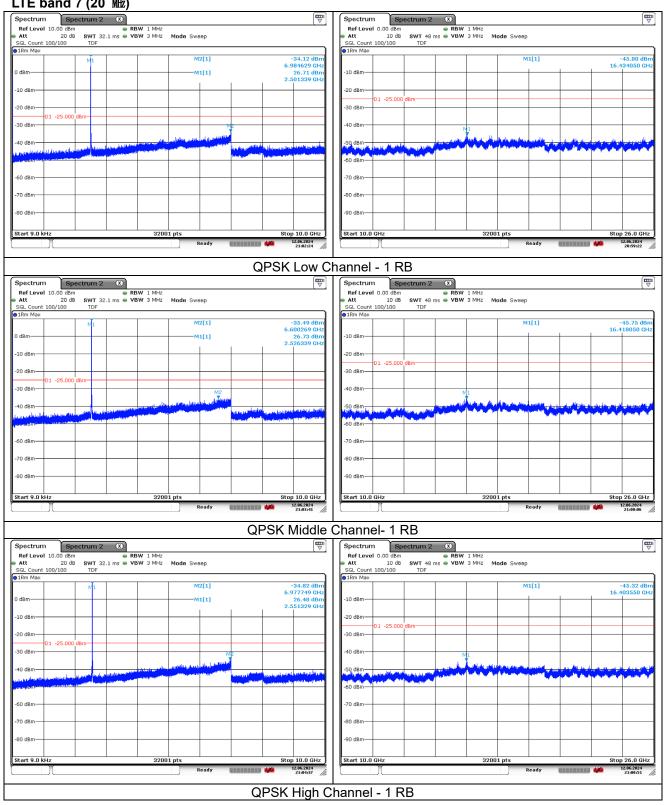
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6.3. Test Results

Ambient temperature	:	(23 ±	:1) ℃
Relative humidity	:	47	% R.H.
- Test plots			

LTE band 7 (20 M地)

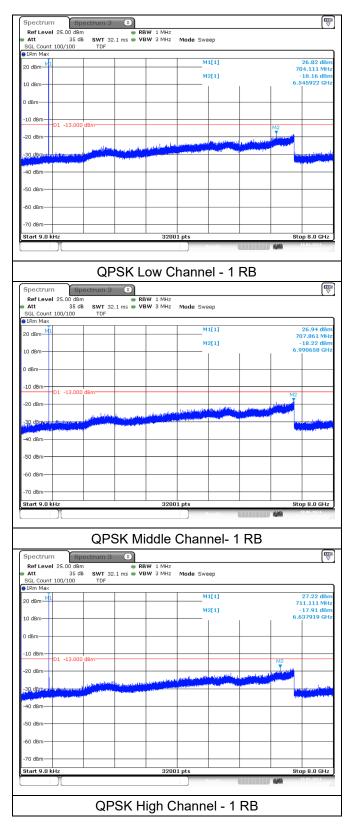


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LTE band 12/17 (10 胍)





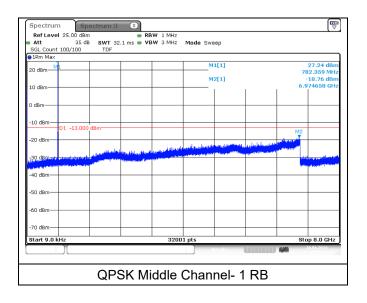
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LTE band 13 (10 Mb)



LTE band 14 (10 Mb)

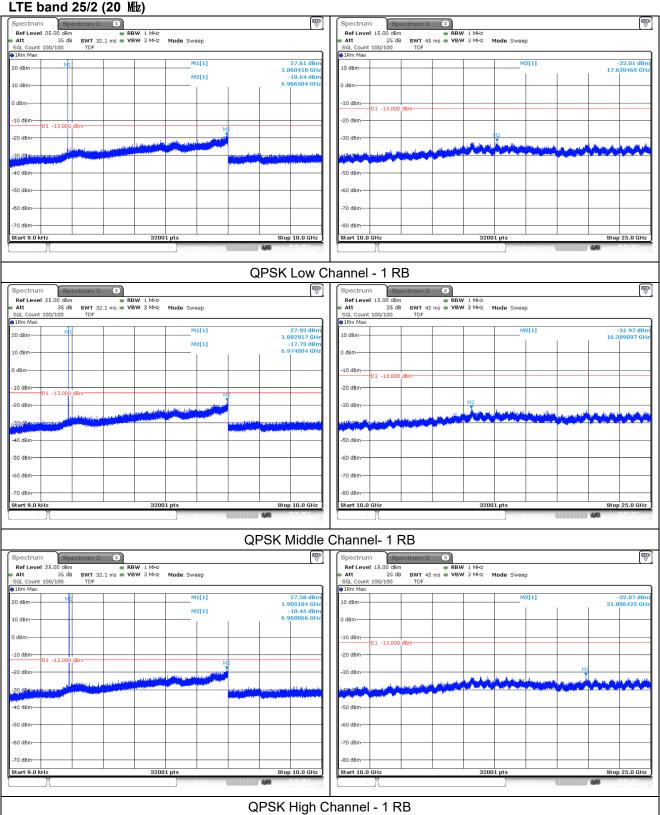
Att SGL Count 100/1		2.1 ms 👄 VBW	3 MHZ MODE	Sweep					
●1Rm Max									
20 dBm M1				M2[1]			-18.08 dBn 6.918909 GH: 26.61 dBn		
20 UBIII									
10 dBm				milij		793.109 MH			
0 dBm									
-10 dBm									
	3.000 dBm					M2			
-20 dBm		+ + +			يرونها دريين				
	المرافقين ول	And a general section of	Laborated and International	and the second second second second	States and a state of the	and the state of the state of the			
-30 dBm	and the second se	the second second second			-		and a state of the		
-40 dBm									
- to upin									
-50 dBm									
-60 dBm									
-70 dBm		+ +							
Start 9.0 kHz	-	-	32001 pts	1		Sto	pp 8.0 GHz		
				Ready			18.06.2024 15:05:07		



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LTE band 25/2 (20 Mb)



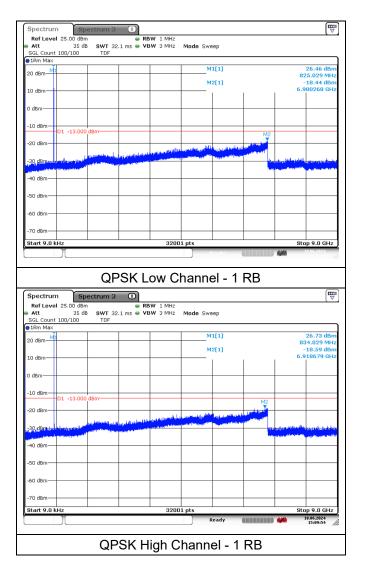


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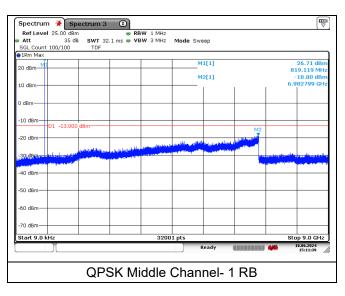
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LTE band 26 (10 Mb) (Part 90)





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LTE band 41 (10 M地)

