













Report Number: F690501-RF-RTL005833



LTE band 5





F690501-RF-RTL005833 Report Number:









Report Number: F690501-RF-RTL005833



LTE band 7

























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6. Spurious Emissions at Antenna Terminal

6.1. Limit

FCC

- \$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 + 10log(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.

IC

- RSS-130 Issue 2

4.7.1, the unwanted emissions in any 100 kl_{2} bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dB W), by at least 43 + 10 log₁₀ p (watts), dB. However, in the 100 kl_{2} band immediately outside the equipment's operating frequency block range, a resolution bandwidth of 30 kl_{2} may be employed.

- RSS-132 Issue 4

5.5, Equipment shall meet the unwanted emission limits specified below:

(i) In the first 1.0 Mb band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least $43 + 10 \log(p)$ dB.

(ii) After the first 1.0 Mb immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kb bandwidth shall be attenuated below the transmitter output power P (dBW) by at least 43 + 10 log(p) dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kb is required.

p is the output power specified in watts.



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- RSS-133 Issue 7

5.6, Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 Mb bands, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Offset from the edge of the frequency block or frequency block group	Unwanted emission Imit
≤1 Mtz	-13 dB m/(1% of OBW)
>1 MHz	-13 dB m

Table 3: Unwanted emission limits for all equipment

- RSS-139 Issue 4

5.6, Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency	Unwanted emission		
block group	Imit		
≤1 Mz	-13 dB m/(1% of OB)*		
>1 Mz	-13 dB m/Mz		

* OB is the occupied bandwidth

- RSS-199 Issue 4

5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2 % for subscriber equipment other than fixed subscriber equipment. Beyond this 1 Mb band, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1 % or 2 % of the occupied bandwidth, as applicable.



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For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 4: Unwanted emission limits for fixed station, base station andfixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (顺)	Unwanted emission limit
≤1	-13 dB m/(1% of OB*)
>1	-13 dB m/Mz

* OB is the occupied bandwidth

Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (账)	Unwanted emission limit
0-1	-10 dB m/(2% of OB*)
1-5	-10 dB m/Mz
5-X**	-13 dB m/Mz
≥X	-25 dB m/Mz

* OB is the occupied bandwidth

** X is 6 Mz or the equipment occupied bandwidth, whichever is greater

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 dB m/Mz on all frequencies between 2 490.5 Mz and 2 496 Mz, and -25 dB m/Mz at or below 2 490.5 Mz.



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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 and stop frequency was set to at least 10* the fundamental frequency.
- 2. Detector = Peak.
- 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 30 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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: 47

%



6.3. Test Results

Ambient temperature : (23 ± 1) °C

Relative humidity

- Test plots

LTE band 2 (5 Mb)





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LTE band 5 (5 Mb)





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LTE band 7 (10 Mb)



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LTE band 12/17 (10 Mb)





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LTE band 13 (10 Mb)





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7. Band Edge and Emission Mask

7.1. Limit

FCC

- \$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 + 10log(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.

- 27.53(c)(4), On all frequencies between 763-775 Mb and 793-805 Mb, by a factor not less than 65 + 10 log (P) dB in a 6.25 kb band segment, for mobile and portable stations

- 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.



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- RSS-130 Issue 2

4.7.1, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log₁₀ p (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2, In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 Mb and 777-787 Mb shall also comply with the following restrictions:

a) The power of any unwanted emissions in any 6.25 kl bandwidth for all frequencies between 763-775 M and 793-806 M shall be attenuated below the transmitter power, P (dBW), by at least:

- (i)76 + 10 log10 p (watts), dB, for base and fixed equipment, and
- (ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment.

b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW /Mz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

- RSS-132 Issue 4

5.5, Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 Mb band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1 % of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log₁₀ p (watts).

(ii) After the first 1.0 Mb immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kb bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log₁₀ p (watts). If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kb is required.

- RSS-133 Issue 7

5.6, Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 Mb bands, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Offset from the edge of the frequency block or frequency block group	Unwanted emission Imit
≤1 Mz	-13 dB m/(1% of OBW)
>1 Mz	-13 dB m

Table 3: Unwanted emission limits for all equipment



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5.6, Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission Imit
≤1 Mz	-13 dB m/(1% of OB)*
>1 Mz	-13 dB m/Mz

* OB is the occupied bandwidth

- RSS-199 Issue 4

5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 Mb band immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for fixed stations, base stations, and fixed subscriber equipment, and 2 % for subscriber equipment other than fixed subscriber equipment. Beyond this 1 Mb band, a resolution bandwidth of 1 Mb shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 Mb, or 1 % or 2 % of the occupied bandwidth, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

Table 4: Unwanted emission limits for fixed station, base station and fixed subscriber equipment

Offset from the edge of the frequency block or frequency block group (Mz)	Unwanted emission limit
≤1 	-13 dB m/(1% of OB*)
>1	-13 dB m/Mz

* OB is the occupied bandwidth



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Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment

Offset from the edge of the frequency block or frequency	Unwanted emission
block group (Mb)	limit
0-1	-10 dB m/(2% of OB*)
1-5	-10 dB m/Mz
5-X**	-13 dB m/Mz
≥X	-25 dB m/₩z

* OB is the occupied bandwidth

** X is 6 Mb or the equipment occupied bandwidth, whichever is greater

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 dB m/Mz on all frequencies between 2 490.5 Mz and 2 496 Mz, and -25 dB m/Mz at or below 2 490.5 Mz.



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7.2. Test Procedure

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

- a. Span was set large enough so as to capture all out of band emissions near the band edge.
- b. RBW ≥ 1 % of OBW
- c. VBW \geq 3 x RBW.
- d. Detector = RMS.
- e. Trace mode = Average.
- f. Sweep time = Auto.
- g. The trace was allowed to stabilize.
- h. All path loss of frequency range was investigated and compensated to spectrum analyzer as TDF function.





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7.3. Test Results

Ambient temperature	:	(23 :	±1) ℃
Relative humidity	:	47	%

- Test plots





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-70 dBm					
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purious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
1.849 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-24.89 dBm	-11.89 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-30.46 dBm	-17.46 dB
1.850 GHz	1.865 GHz	1.000 MHz	1.850/3 GHz	20.00 dBm	-10.00 de
1.865 GHz	1.866 GHz	1.000 MHz	1.86512 GHz	-40.02 dBm	-144.30 de
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Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
1.904 GHz	1.904 GHz	1.000 MHz	1.90397 GHz	-40.44 dBm	-27.44 di
1.904 GHz	1.905 GHz	20.000 kHz	1.90499 GHz	-56.20 dBm	-43.20 di
1.905 GHz	1.910 GHz	1.000 MHz	1.90937 GHz	21.74 dBm	-8.26 di
1.910 GH2	1.911 GHz	20.000 KHZ	1.91000 GH2	-30.26 dBm	-17.26 dt
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Start 1.9036 GHz		50	05 pts	Sto	p 1.9114 GH
Spurious Emissions	:				
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
1.904 GHz	1.904 GHz	1.000 MHz	1.90397 GHz	-40.51 dBm	-27.51 d
1.904 GHz	1.905 GHz	20.000 kHz	1.90499 GHz	-56.39 dBm	-43.39 d
1.905 GHz	1.910 GH	1.000 MHz	1.90926 GHz	20.48 dBm	-9.52 d
1.910 GH2	1.911 GH2	20.000 KHZ	1.91000 GHZ	-31.63 dBm	-18.63 d
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1.904 GHz	1.000 MHz	1.90393 GHz	-30.50 dBm	-17.50 dt
1.905 GHz	30.000 kHz	1.90500 GHz	-44.12 dBm	-31.12 di
1.910 GHz	1.000 MHz	1.90904 GHz	18.19 dBm	-11.81 di
1.911 GHz	30.000 kHz	1.91000 GHz	-29.21 dBm	-16.21 di
1.913 GHz	1.000 MHZ	1.91125 GHz	-24.64 OBM	-11.64 of
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## LTE band 2 (3 Mb)



Ref Level 25.00 di	3m	Mode Sw	reep					
SGL Count 100/100								
1 AvgPwr								
Limit Check		PA	88					
Line _SPURIOU	IS INE_ABS_	PA	<u>88</u>					و و ا
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SPURIOUS_LINE_ABS								
20 dBm		When when and						
29 dBm		and the second se	and the second second					
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40 dBm				and services		and the second se	-	Print Print Print
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50 dBm								
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do dom	وهو ا							
70 dBm								
start 1.847 GHz			5005	pts			Sto	5 1.868 GH
purious Emissions								
Range Low	Range Up	KE	SW MHZ	Freque	ncy enzightz	Power Abs	5	ALIMIC
1.849 GHz	1.850 GH	2 30	000 MHz	1.85	897 GH2	-30.71	dBm	-17.71 df
1.850 GHz	1.865 GH	7 1	000 MHz	1.85152 GHz		16.48	dBm	-13.52 dE
1.865 GHz	1.866 GH	z 30	.000 kHz	1.86511 GHz		-55.50	dBm	-42.50 dE
1.866 GHz	1.868 GH	z 1.	000 MHz	1.86	711 GHz	-39.76	dBm	-26.76 dt
				F (Cal	teady	STREET, STREET	-	27.12.2024
							_	



Report Number: F690501-RF-RTL005833

Start 1.902 GHz



## LTE band 2 (3 Mb)



5005 pts

**QPSK High Channel - Full RB** 

Stop 1.913 GHz



Report Number: F690501-RF-RTL005833



## LTE band 2 (3 Mb)



SGL Count 100/100					
1 AvgPwr		nabe			
20 dBm SPURIOU	ID THE ADD	PADS			
Line_protoco	IS_LINC_ADD_	PADO SALAN	A	Marriet .	
LO dBm	ی و بیدا ک				
1 dBm	_ و الصالح				
10 dBm-					
SPURIOUS_LINE_AB					
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20 48m		anna		periode and	and the second second
30 08m	يدير التر	<b>E</b>			
-40 dBm					
50 dBm					
	A <b>HEND</b> 10			وي والمحالة	
60 dbm	ی وجعالہ				
-70 dBm					
Chave 1 002 CHz		500	at a	64	an 1 012 CH
nurious Emission	<		prs		up 1.910 cm
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
1.902 GHz	1.904 GHz	1.000 MHz	1.90399 GHz	-32.01 dBm	-19.01 di
1.904 GHz	1.905 GHz	30.000 kHz	1.90498 GHz	-45.06 dBm	-32.06 di
1.905 GH2	1.910 GHz	1.000 MHz	1.90926 GHz	17.02 dBm	-12.98 di
1.910 GHz	1.911 GHz	1.000 KHz	1.91000 GHz	-26.48 dBm	-13 48 d
T DIT ONE	1.910 0112	21000 11112			-28 12 2624
			Ready		20.12.2027









Spectrum	Spectrum 2	0			
Ref Level 25.00 di	3m Mo	de Sweep			
SGL COUNT 100/100					
Limit Check		PARS		1	
20 dBm SPURIOL	IS LINE ABS	PASS			
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		Ν			
) dBm		<u>1</u>			
10 dBm					
SPURIOUS_LINE_AB	5				
20 0811		Contraction of the local division of the loc	market and a second sec		
30.46m			and a same		
	~		and the second second	and wanter	
-40 dBm					
E0 d0m					
50 UBIII					
-60 dBm					
-70 dBm					
Start 1.845 GHz		5005	pts		stop 1.87 GHz
purious Emissions	5				
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
1.845 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-22.55 dBm	-9.55 dB
1.849 GHZ	1.850 GHZ	1 000 MHz	1.84999 GH2	-29.71 dBm	-16./1 dB
1.865 GHz	1.865 GHz	50.000 kHz	1.86522 GHz	-51.56 dBm	-38 56 dB
1.866 GHz	1.870 GHz	1.000 MHz	1.86660 GHz	-38.88 dBm	-25.88 dB
			Ready	(1111111)	27.12.2024 18:36:19