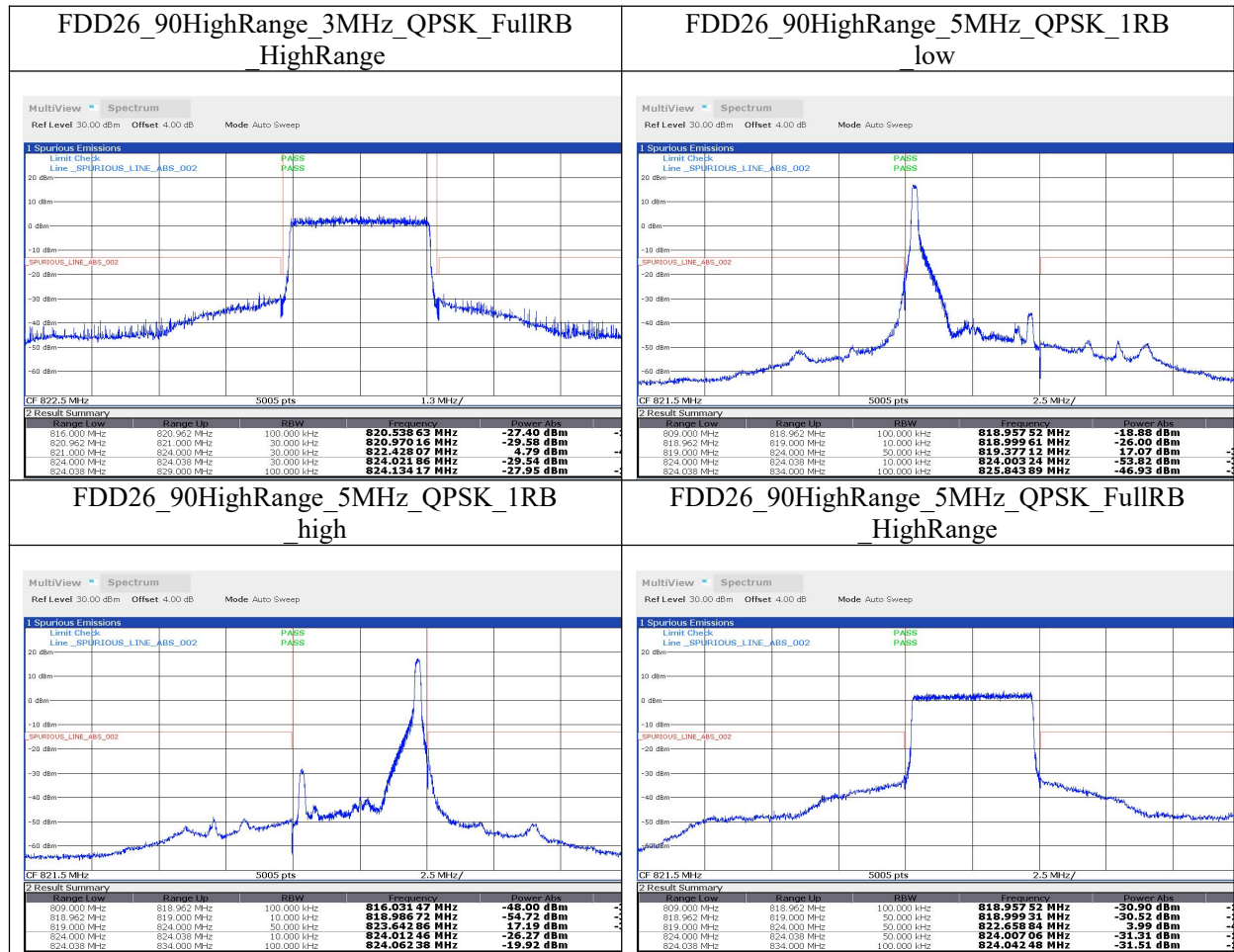


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Band 30 (Only the worst mode data is provided)

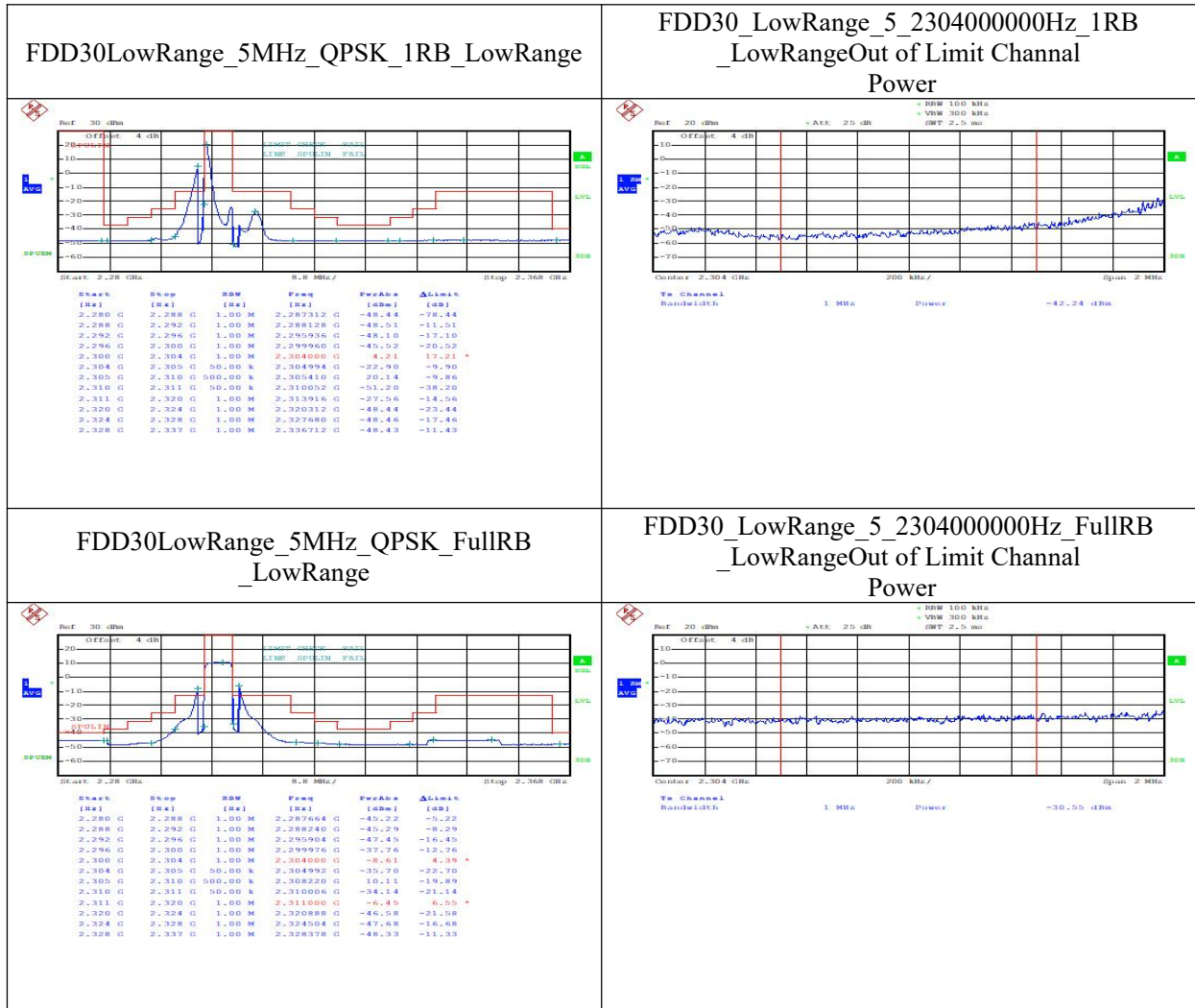
Band	Range	BandWidth(MHz)	Modulation	RbMode
FDD30	LowRange	5	QPSK	1RB_LowRange
FDD30	LowRange	5	QPSK	FullRB_LowRange
FDD30	LowRange	10	QPSK	1RB_LowRange
FDD30	LowRange	10	QPSK	FullRB_LowRange
FDD30	HighRange	5	QPSK	1RB_HighRange
FDD30	HighRange	5	QPSK	FullRB_HighRange
FDD30	HighRange	10	QPSK	1RB_HighRange
FDD30	HighRange	10	QPSK	FullRB_HighRange

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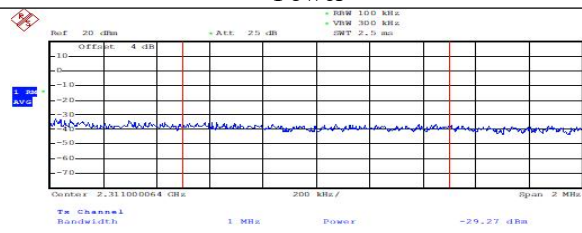
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336

Tel: 0086-23-88069965

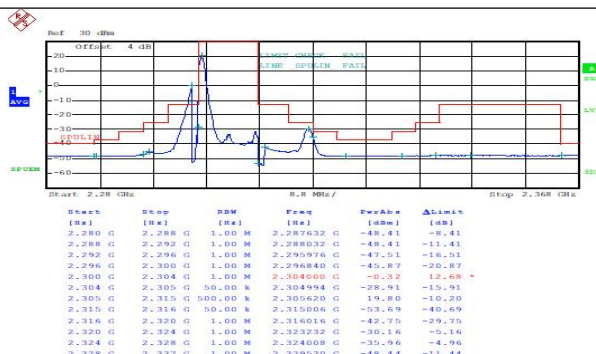
FAX:0086-23-88068777



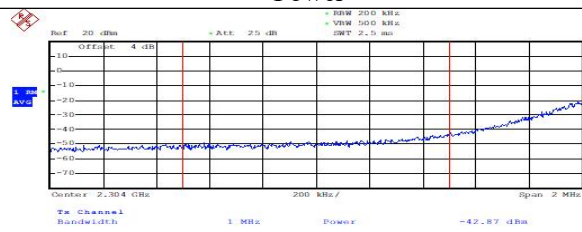
FDD30_LowRange_5_2311000064Hz_FullIRB
_LowRangeOut of Limit Channel
Power



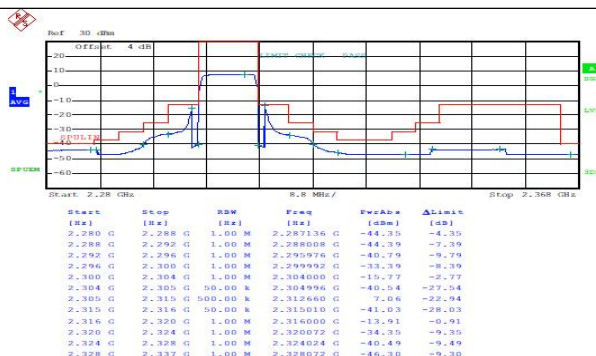
FDD30LowRange_10MHz_QPSK_1RB_LowRange
e



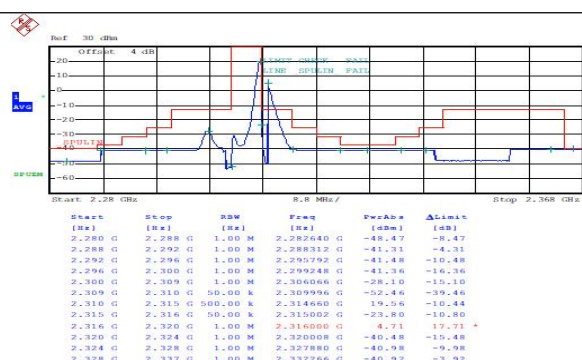
FDD30_LowRange_10_2304000000Hz
_1RB_LowRangeOut of Limit Channel
Power



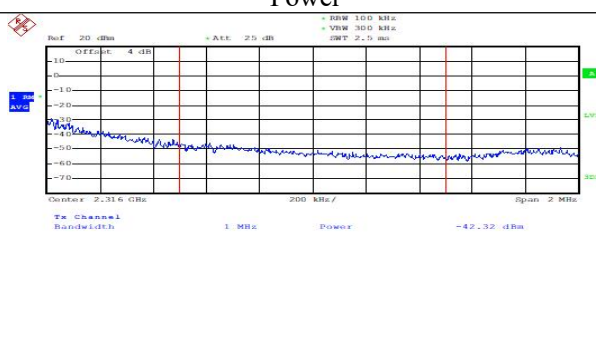
FDD30LowRange_10MHz_QPSK_FullIRB
_LowRange



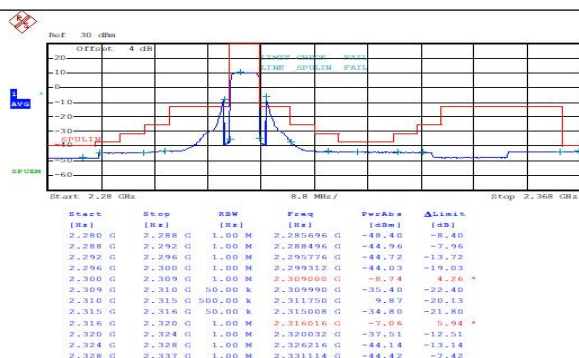
FDD30HighRange_5MHz_QPSK_1RB_HighRange



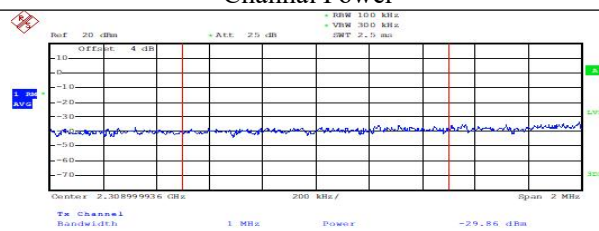
FDD30_HighRange_5_2316000000Hz
_1RB_HighRangeOut of Limit Channel
Power



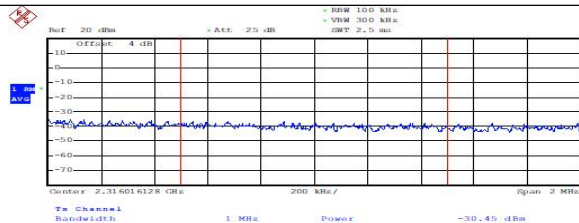
FDD30HighRange_5MHz_QPSK_FullRB_HighRange



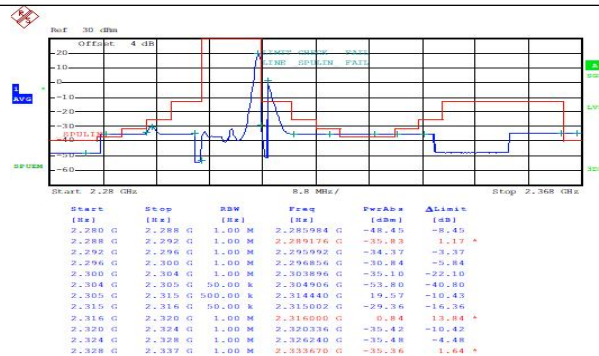
FDD30_HighRange_5_2308999936Hz_FullRB_HighRangeOut of Limit Channel Power



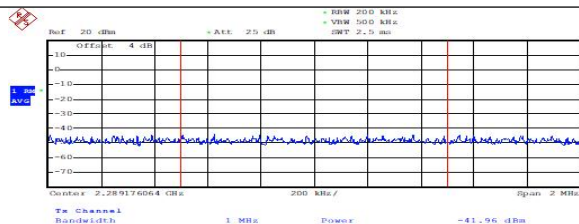
FDD30_HighRange_5_2316016128Hz_FullRB_HighRangeOut of Limit Channel Power



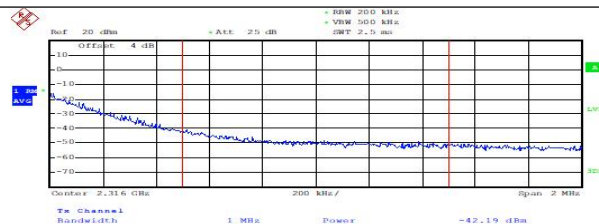
FDD30HighRange_10MHz_QPSK_1RB_HighRange



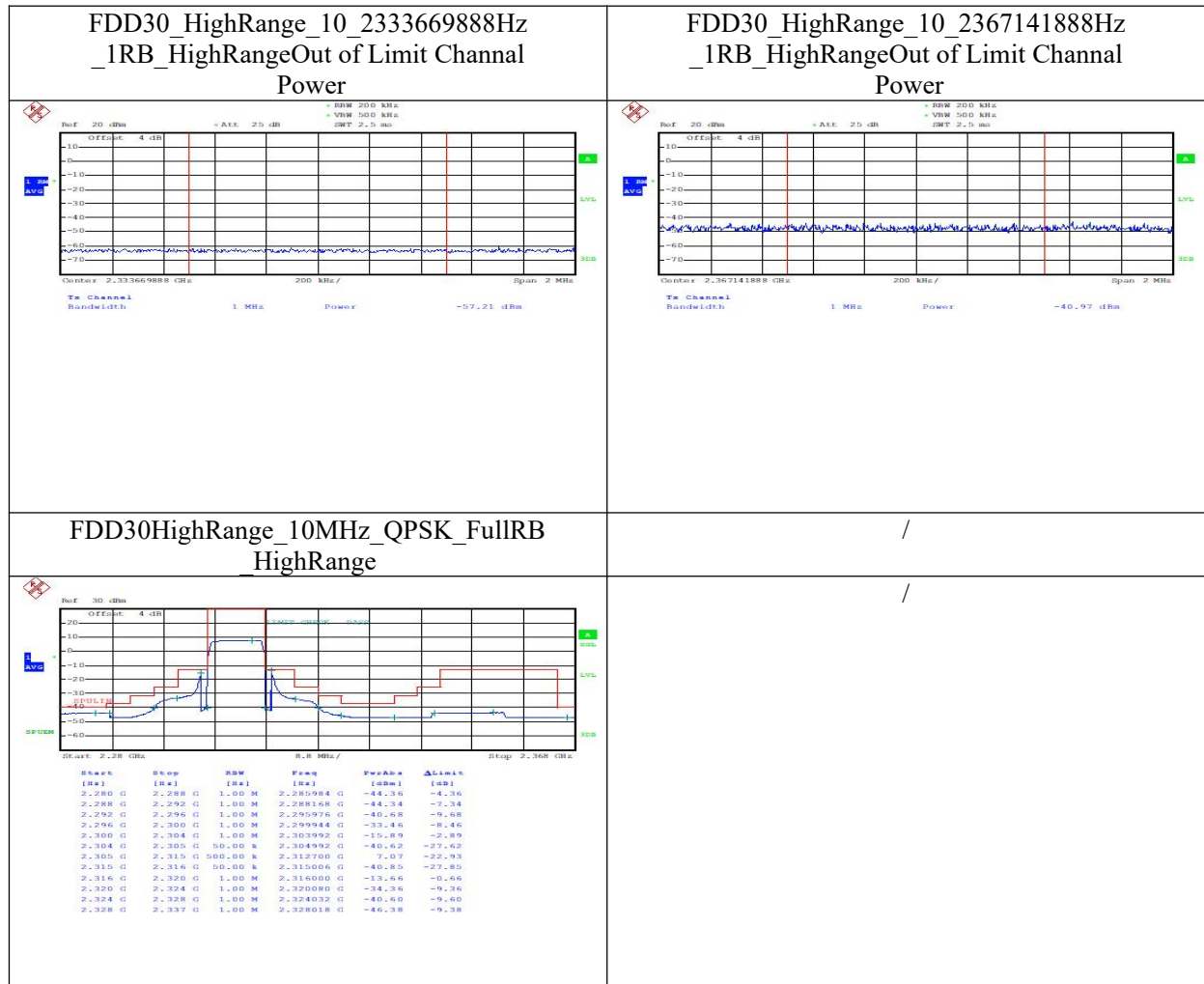
FDD30_HighRange_10_2289176064Hz_1RB_HighRangeOut of Limit Channel Power



FDD30_HighRange_10_2316000000Hz_1RB_HighRangeOut of Limit Channel Power



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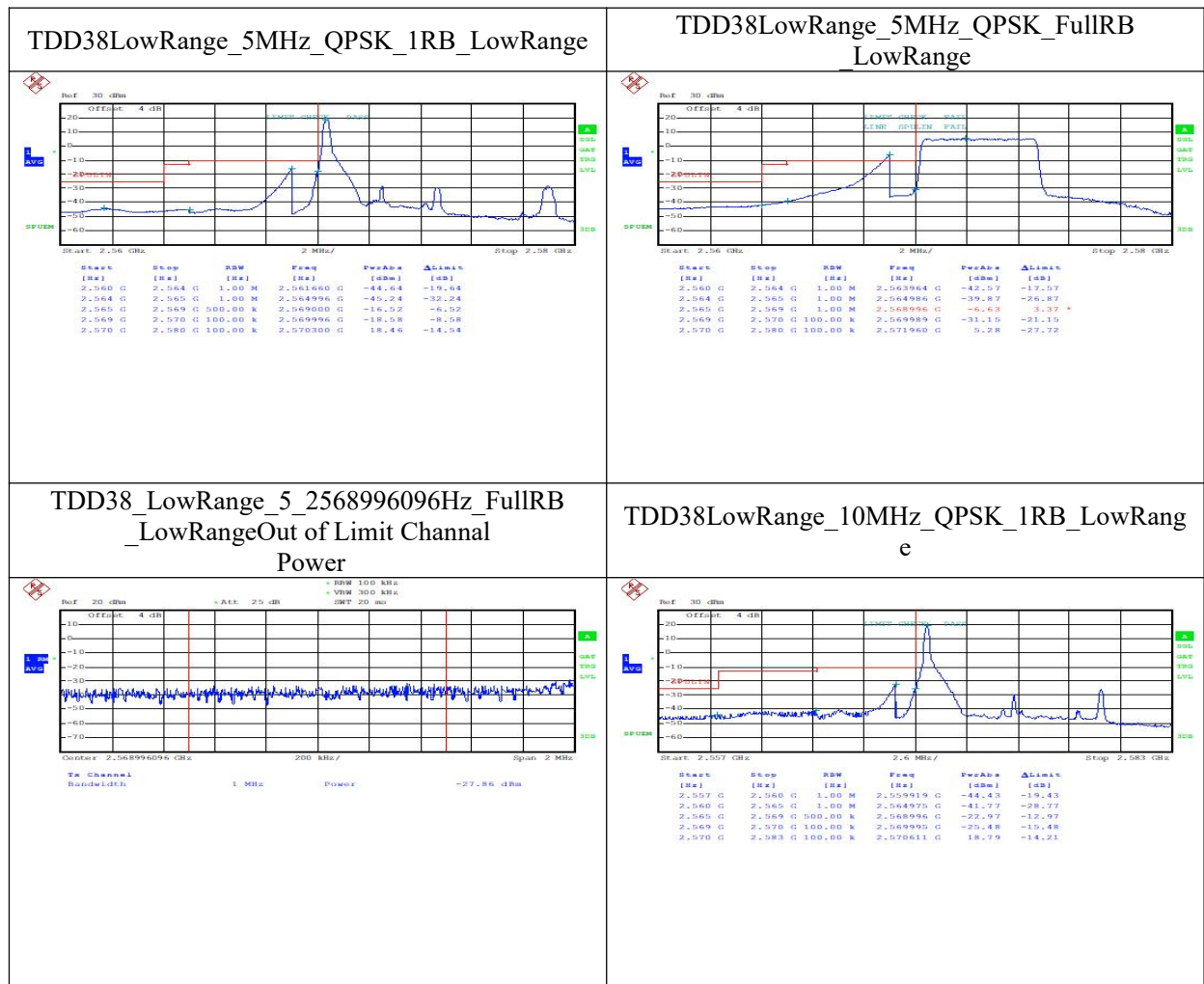
Band 38

Band	Range	BandWidth(MHz)	Modulation	RbMode
TDD38	LowRange	5	QPSK	1RB_LowRange
TDD38	LowRange	5	QPSK	FullRB_LowRange
TDD38	LowRange	10	QPSK	1RB_LowRange
TDD38	LowRange	10	QPSK	FullRB_LowRange
TDD38	LowRange	15	QPSK	1RB_LowRange
TDD38	LowRange	15	QPSK	FullRB_LowRange
TDD38	LowRange	20	QPSK	1RB_LowRange

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TDD38	LowRange	20	QPSK	FullRB_LowRange
TDD38	HighRange	5	QPSK	1RB_HighRange
TDD38	HighRange	5	QPSK	FullRB_HighRange
TDD38	HighRange	10	QPSK	1RB_HighRange
TDD38	HighRange	10	QPSK	FullRB_HighRange
TDD38	HighRange	15	QPSK	1RB_HighRange
TDD38	HighRange	15	QPSK	FullRB_HighRange
TDD38	HighRange	20	QPSK	1RB_HighRange
TDD38	HighRange	20	QPSK	FullRB_HighRange

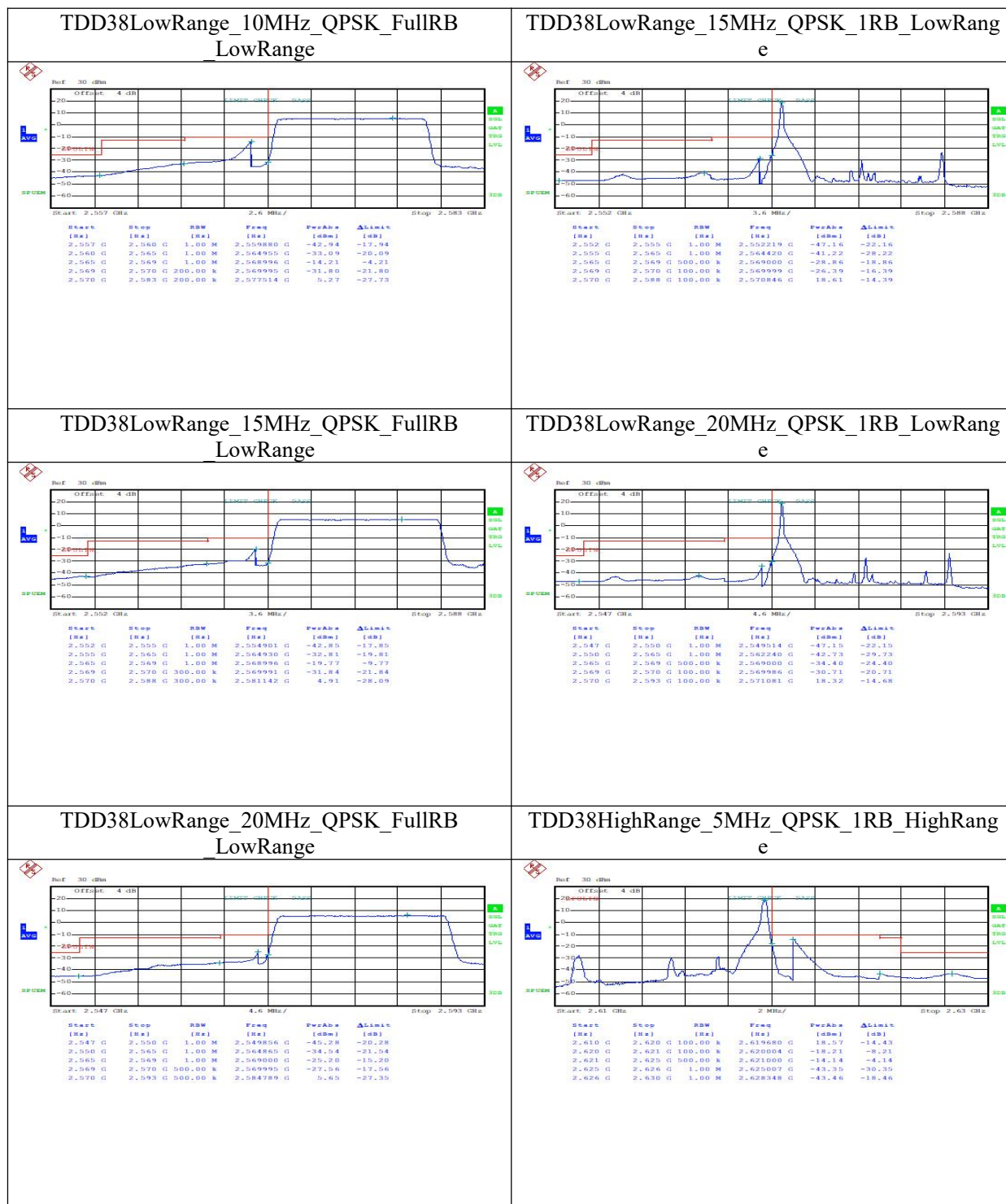


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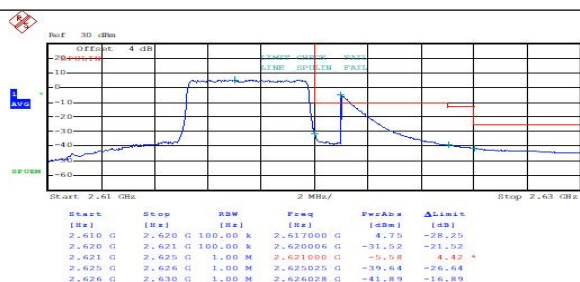
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336

Tel: 0086-23-88069965

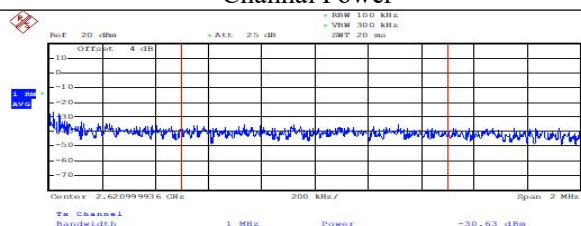
FAX:0086-23-88608777



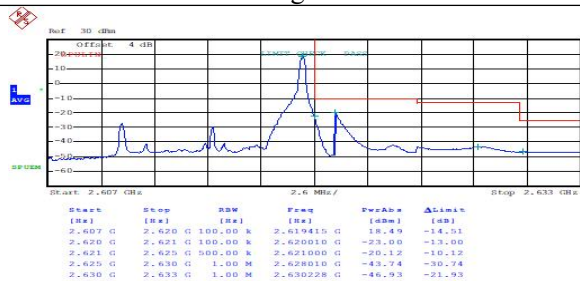
TDD38HighRange_5MHz_QPSK_FullRB_HighRange



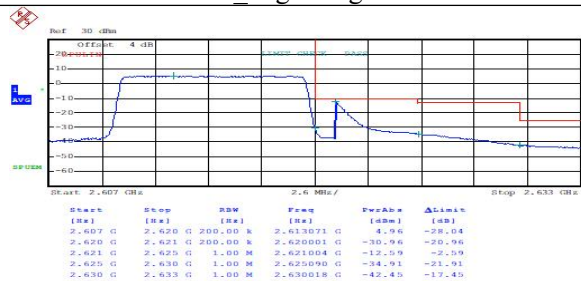
TDD38_HighRange_5_2620999936Hz_FullRB_HighRangeOut of Limit Channel Power



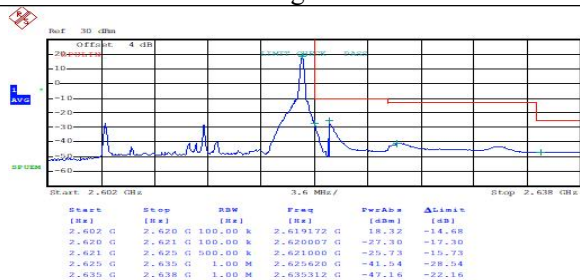
TDD38HighRange_10MHz_QPSK_1RB_HighRange



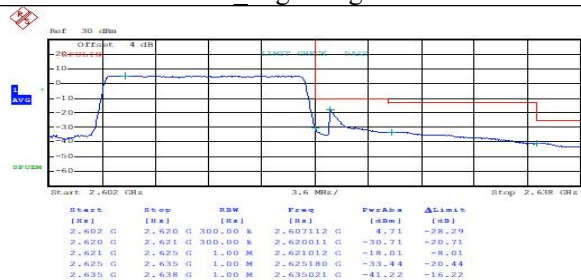
TDD38HighRange_10MHz_QPSK_FullRB_HighRange



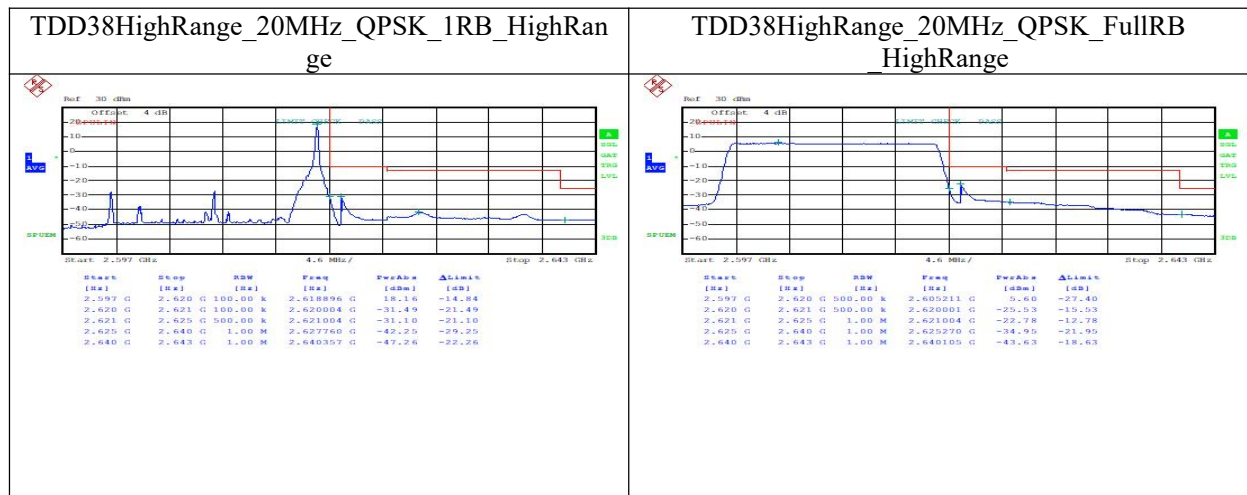
TDD38HighRange_15MHz_QPSK_1RB_HighRange



TDD38HighRange_15MHz_QPSK_FullRB_HighRange



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Band41

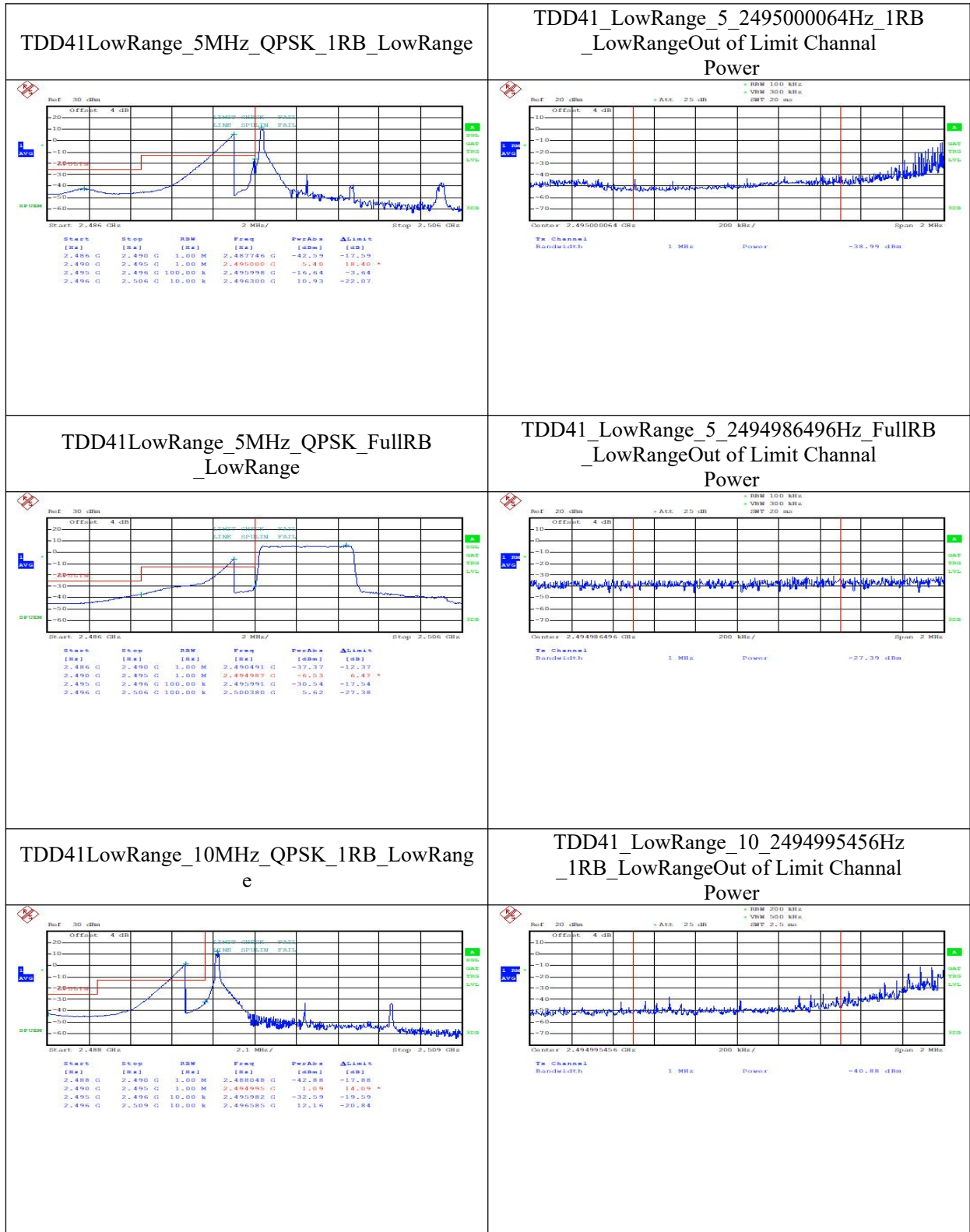
Band	Range	BandWidth(MHz)	Modulation	RbMode
TDD41	LowRange	5	QPSK	1RB_LowRange
TDD41	LowRange	5	QPSK	FullRB_LowRange
TDD41	LowRange	10	QPSK	1RB_LowRange
TDD41	LowRange	10	QPSK	FullRB_LowRange
TDD41	LowRange	15	QPSK	1RB_LowRange
TDD41	LowRange	15	QPSK	FullRB_LowRange
TDD41	LowRange	20	QPSK	1RB_LowRange
TDD41	LowRange	20	QPSK	FullRB_LowRange
TDD41	HighRange	5	QPSK	1RB_HighRange
TDD41	HighRange	5	QPSK	FullRB_HighRange
TDD41	HighRange	10	QPSK	1RB_HighRange
TDD41	HighRange	10	QPSK	FullRB_HighRange
TDD41	HighRange	15	QPSK	1RB_HighRange
TDD41	HighRange	15	QPSK	FullRB_HighRange
TDD41	HighRange	20	QPSK	1RB_HighRange
TDD41	HighRange	20	QPSK	FullRB_HighRange

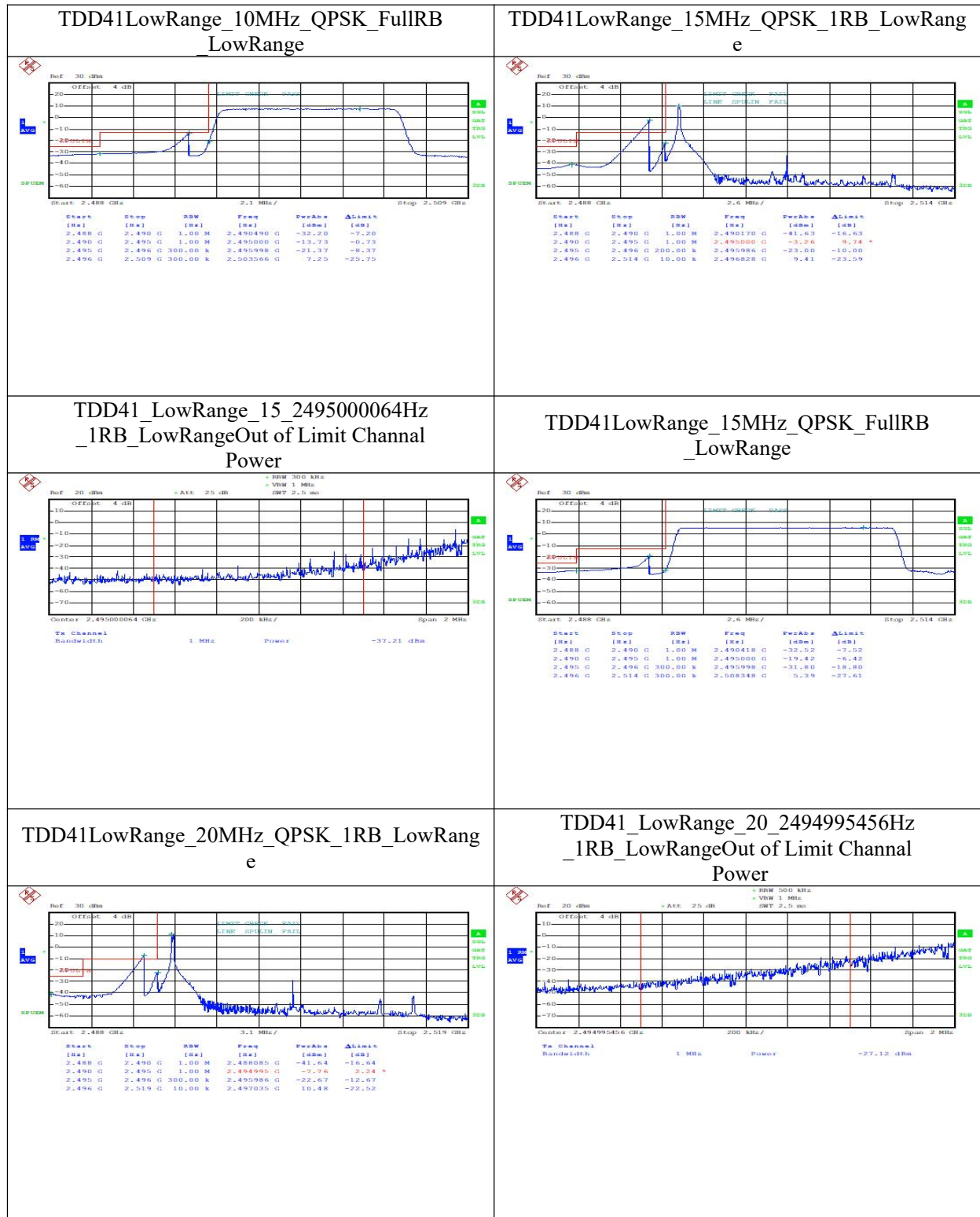
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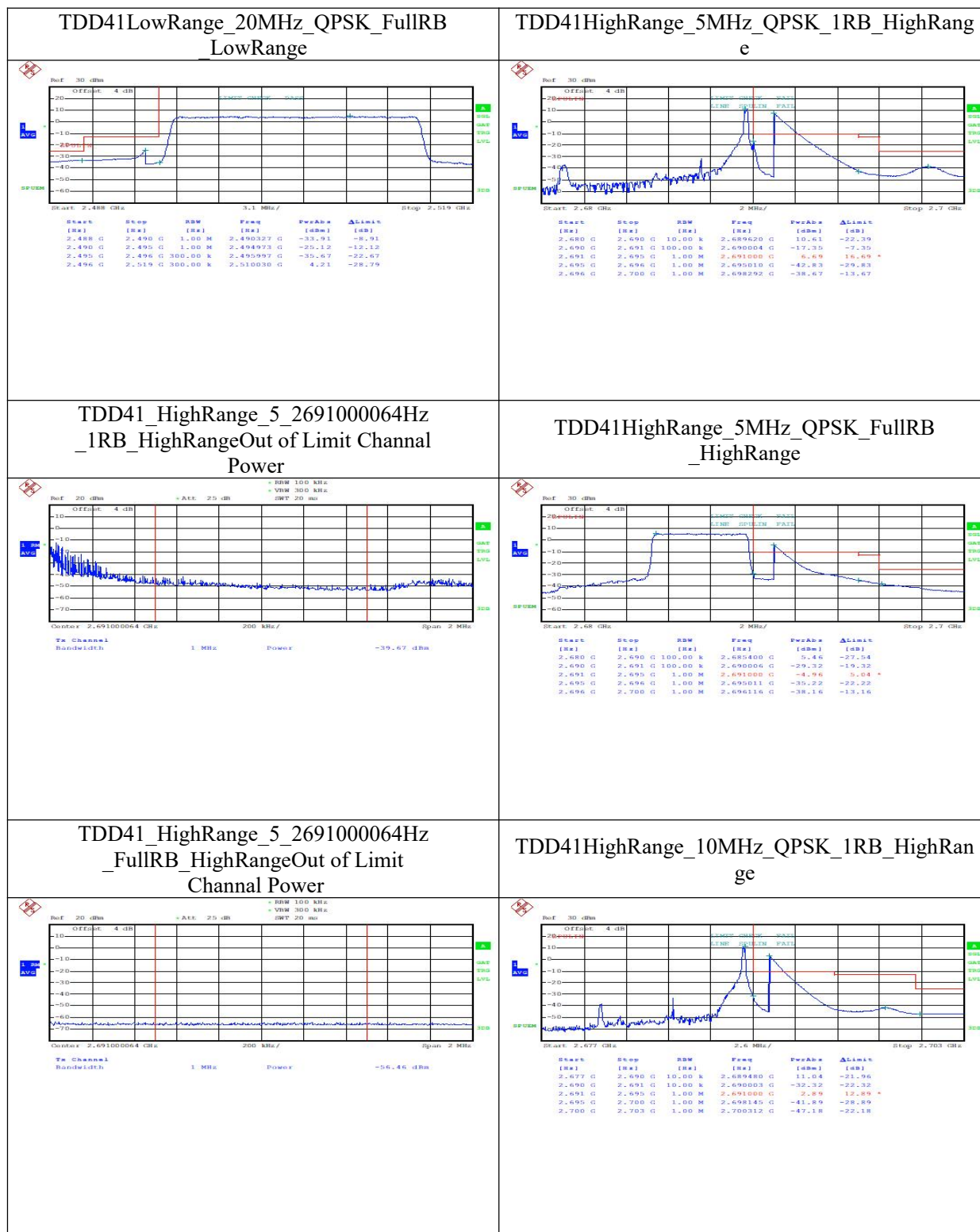
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336

Tel: 0086-23-88069965

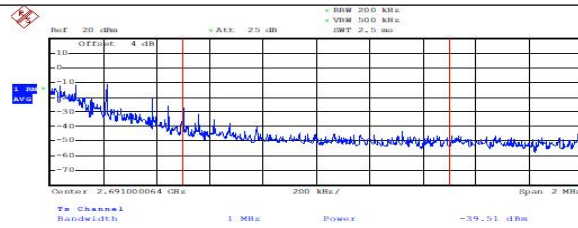
FAX:0086-23-88608777



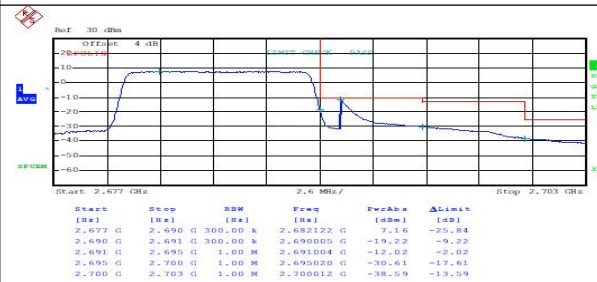




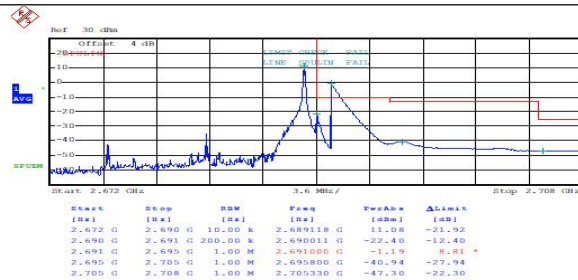
TDD41_HighRange_10_2691000064Hz
_1RB_HighRangeOut of Limit Channel
Power



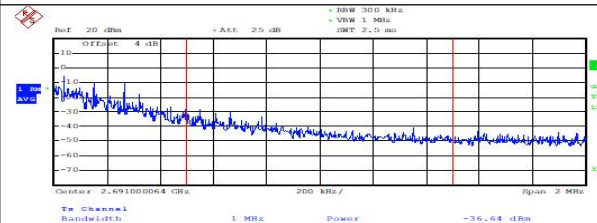
TDD41HighRange_10MHz_QPSK_FullRB
_HighRange



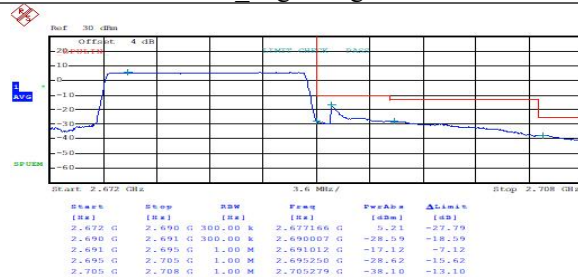
TDD41HighRange_15MHz_QPSK_1RB_HighRange



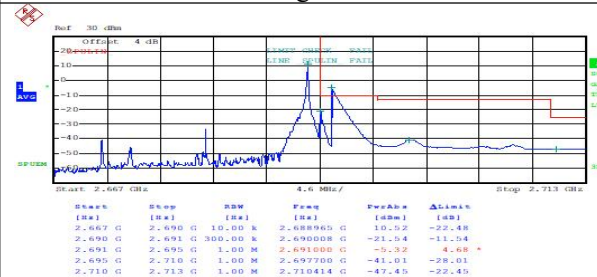
TDD41_HighRange_15_2691000064Hz
_1RB_HighRangeOut of Limit Channel
Power



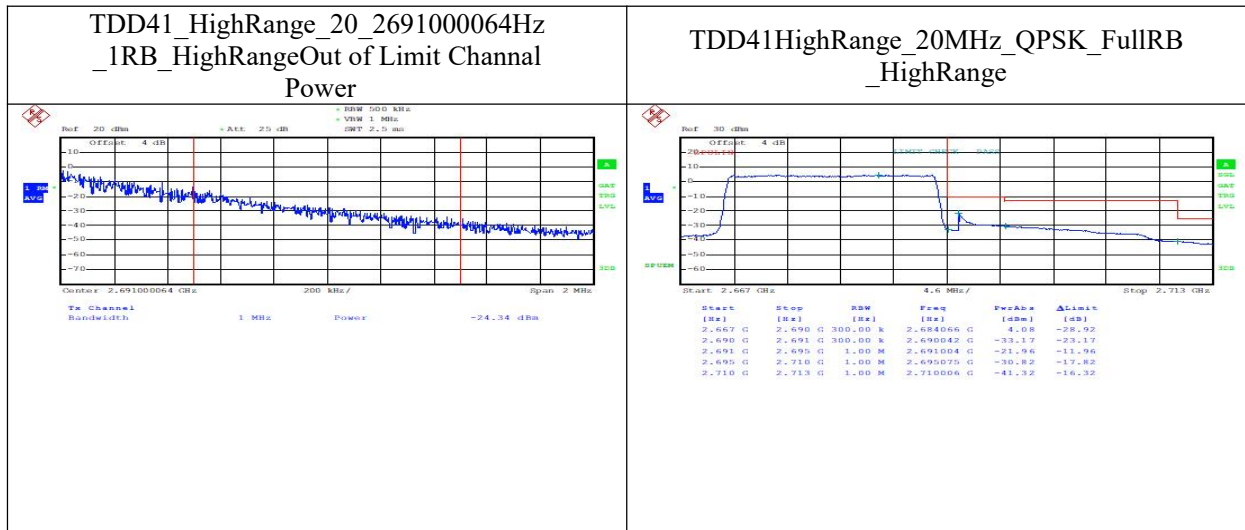
TDD41HighRange_15MHz_QPSK_FullRB
_HighRange



TDD41HighRange_20MHz_QPSK_1RB_HighRange



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Band 41(2500-2690MHz)(Note 1)

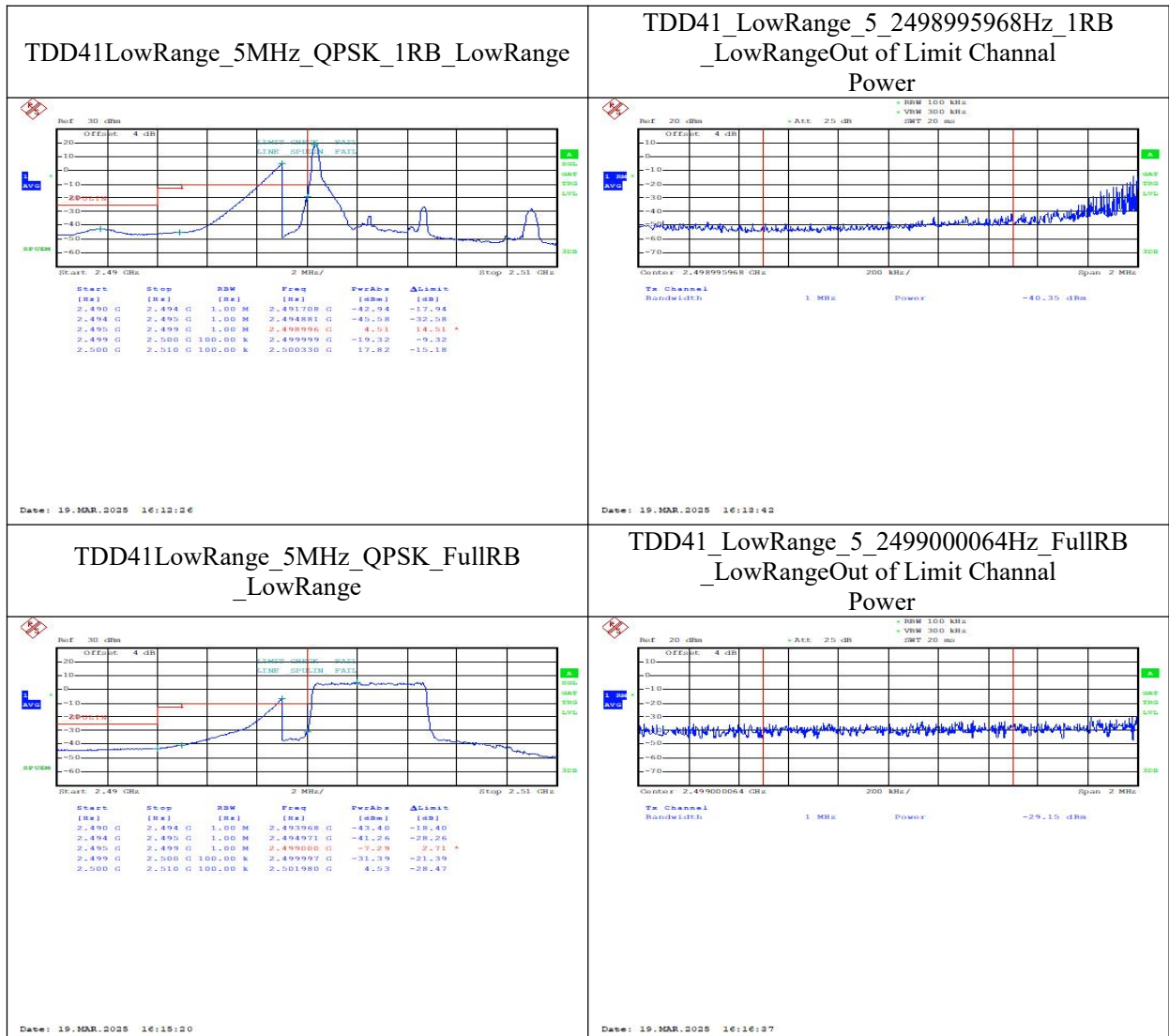
Band	Range	BandWidth(MHz)	Modulation	RbMode
TDD41	LowRange	5	QPSK	1RB_LowRange
TDD41	LowRange	5	QPSK	FullRB_LowRange
TDD41	LowRange	10	QPSK	1RB_LowRange
TDD41	LowRange	10	QPSK	FullRB_LowRange
TDD41	LowRange	15	QPSK	1RB_LowRange
TDD41	LowRange	15	QPSK	FullRB_LowRange
TDD41	LowRange	20	QPSK	1RB_LowRange
TDD41	LowRange	20	QPSK	FullRB_LowRange

Note 1: This frequency range is only applicable for IC certification.

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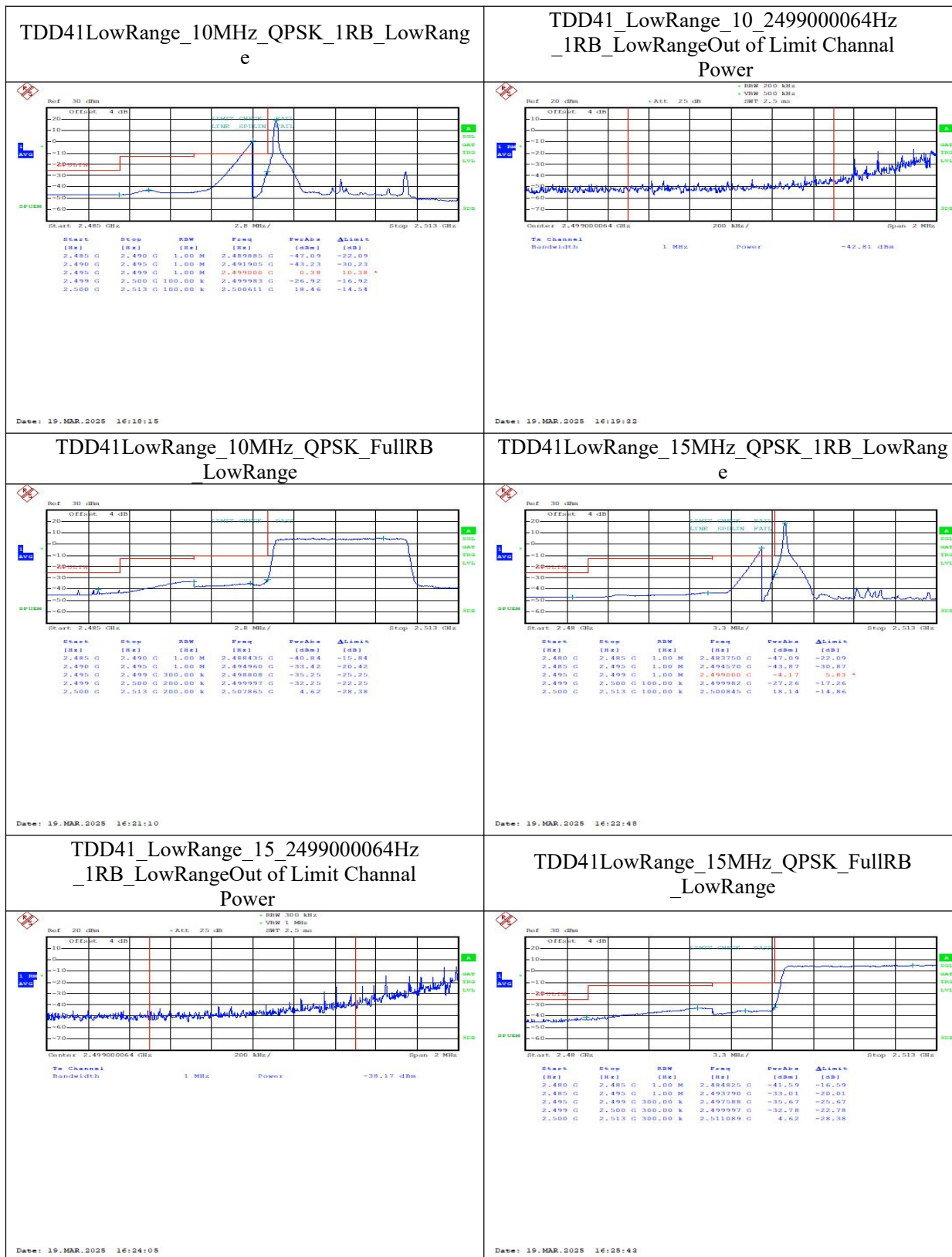
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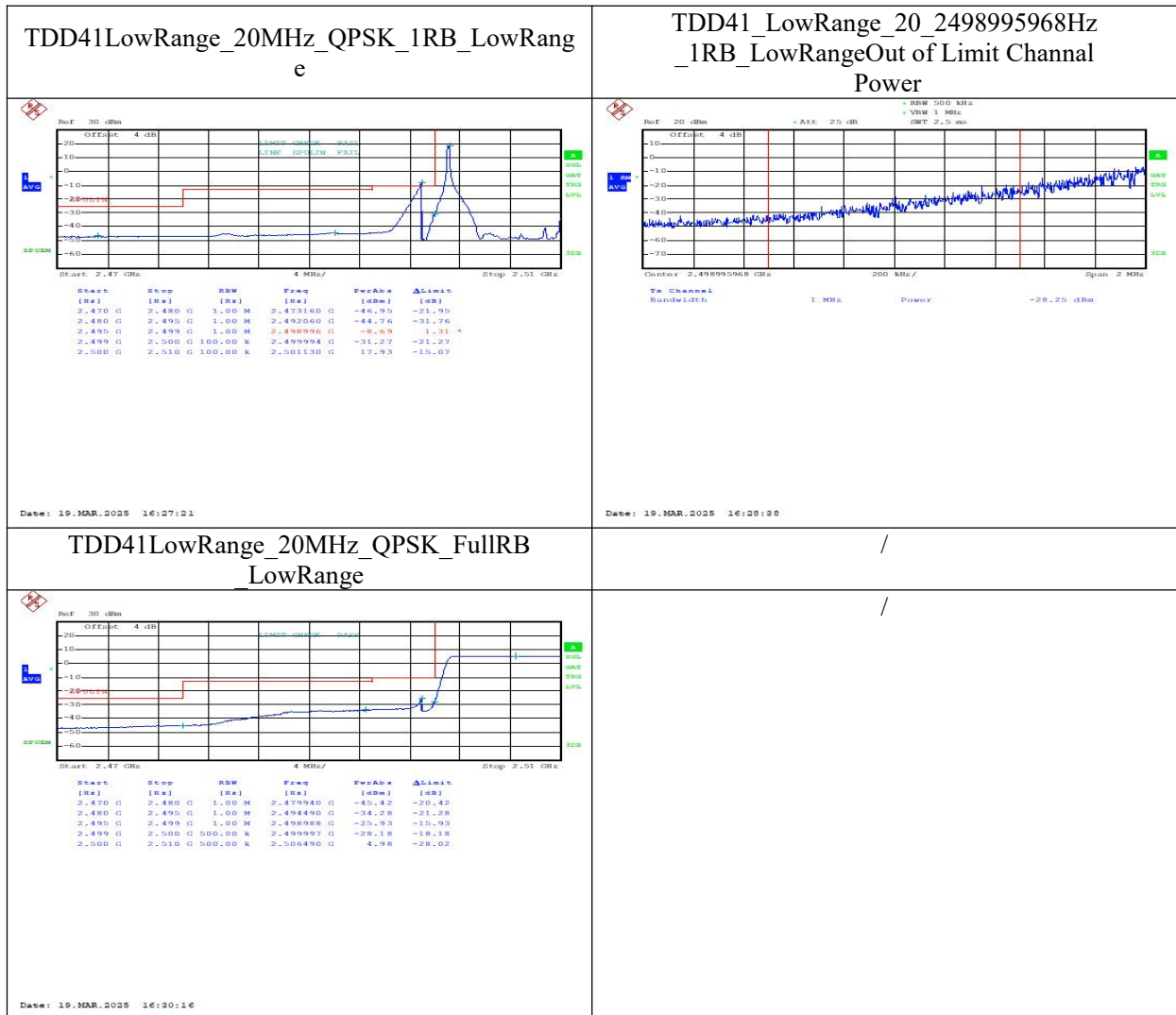
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Band 66(Only the worst mode data is provided)

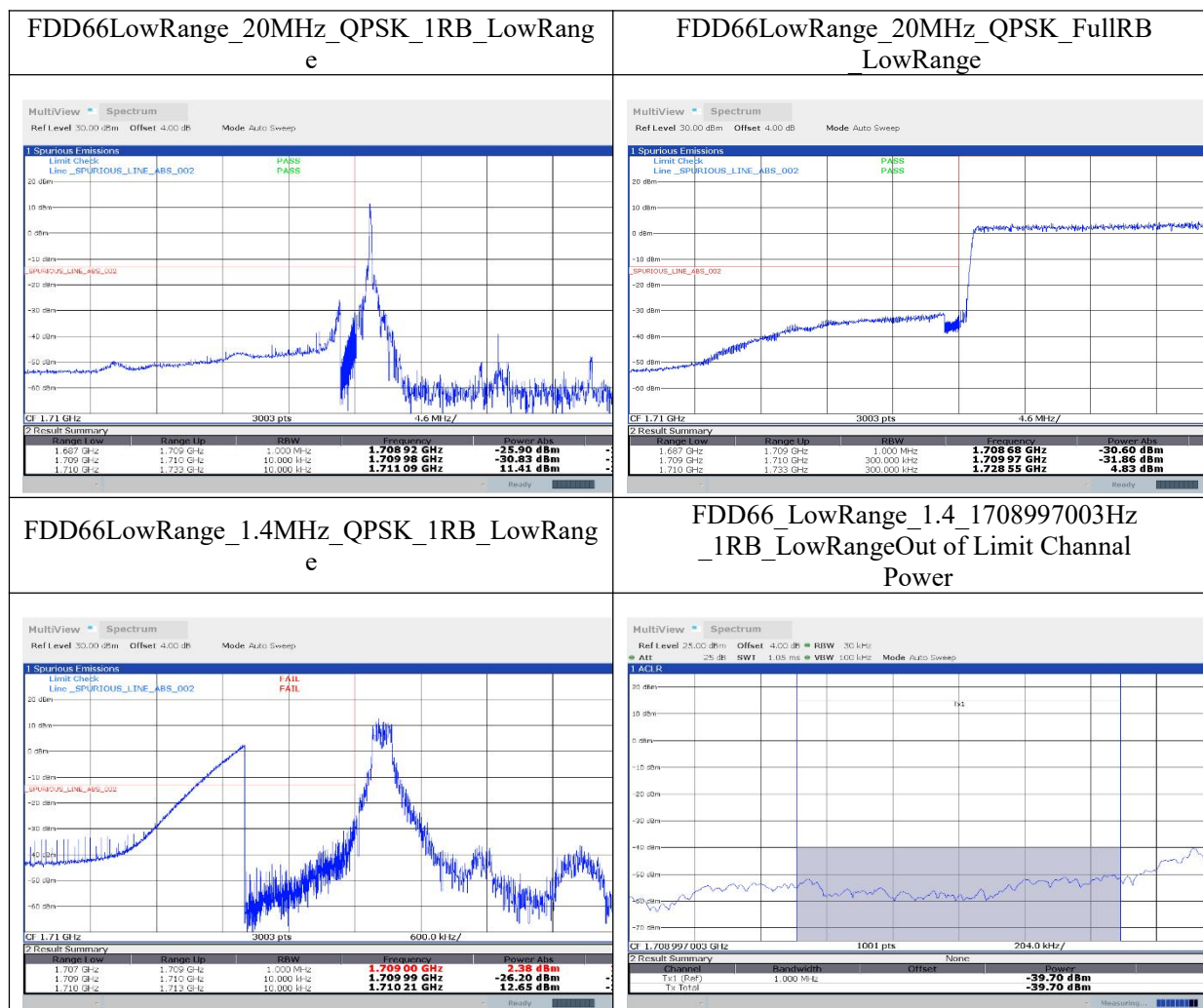
Band	Range	BandWidth(MHz)	Modulation	RbMode
FDD66	LowRange	20	QPSK	1RB_LowRange
FDD66	LowRange	20	QPSK	FullRB_LowRange
FDD66	LowRange	1.4	QPSK	1RB_LowRange
FDD66	LowRange	1.4	QPSK	FullRB_LowRange
FDD66	HighRange	20	QPSK	1RB_HighRange
FDD66	HighRange	20	QPSK	FullRB_HighRange

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FDD66	HighRange	1.4	QPSK	1RB_HighRange
FDD66	HighRange	1.4	QPSK	Full1RB_HighRange



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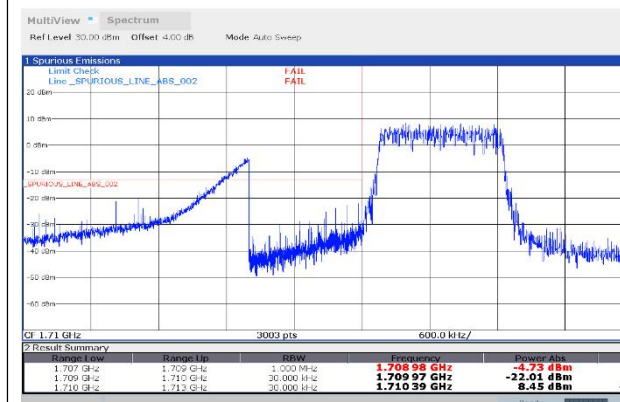
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336

Tel: 0086-23-88069965

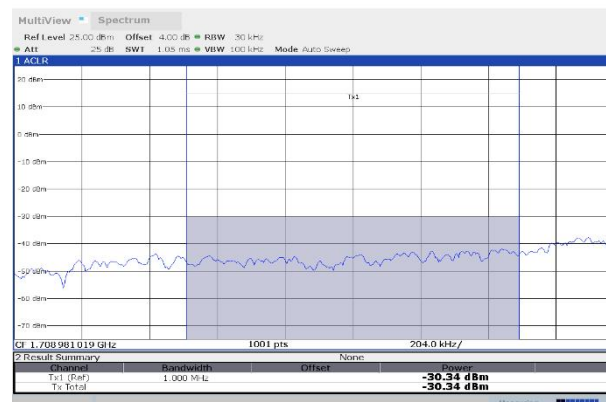
FAX: 0086-23-88608777

Report No.: 25B02W000004-001

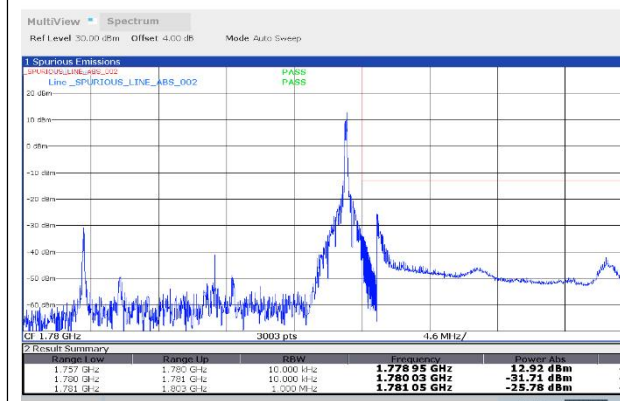
FDD66LowRange_1.4MHz_QPSK_FullRB_LowRange



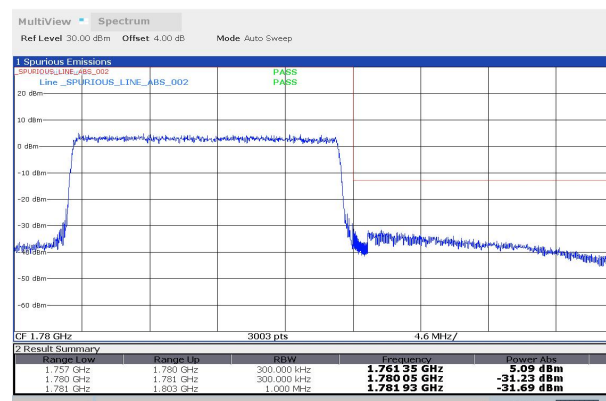
FDD66_LowRange_1.4_1708981019Hz_FullRB_LowRangeOut of Limit Channel Power



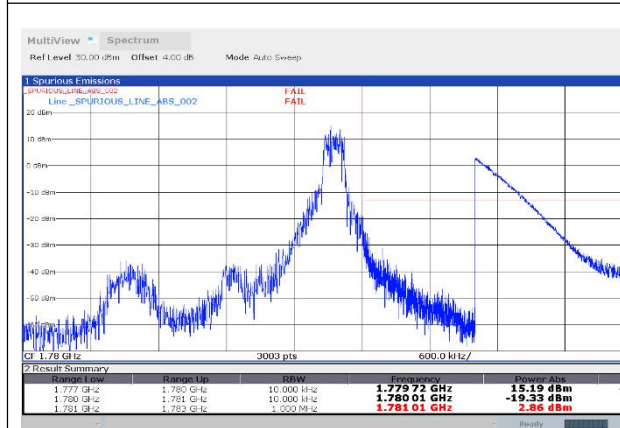
FDD66HighRange_20MHz_QPSK_1RB_HighRange



FDD66HighRange_20MHz_QPSK_FullRB_HighRange



FDD66HighRange_1.4MHz_QPSK_1RB_HighRange



FDD66_HighRange_1.4_1781014985Hz_1RB_HighRangeOut of Limit Channel Power



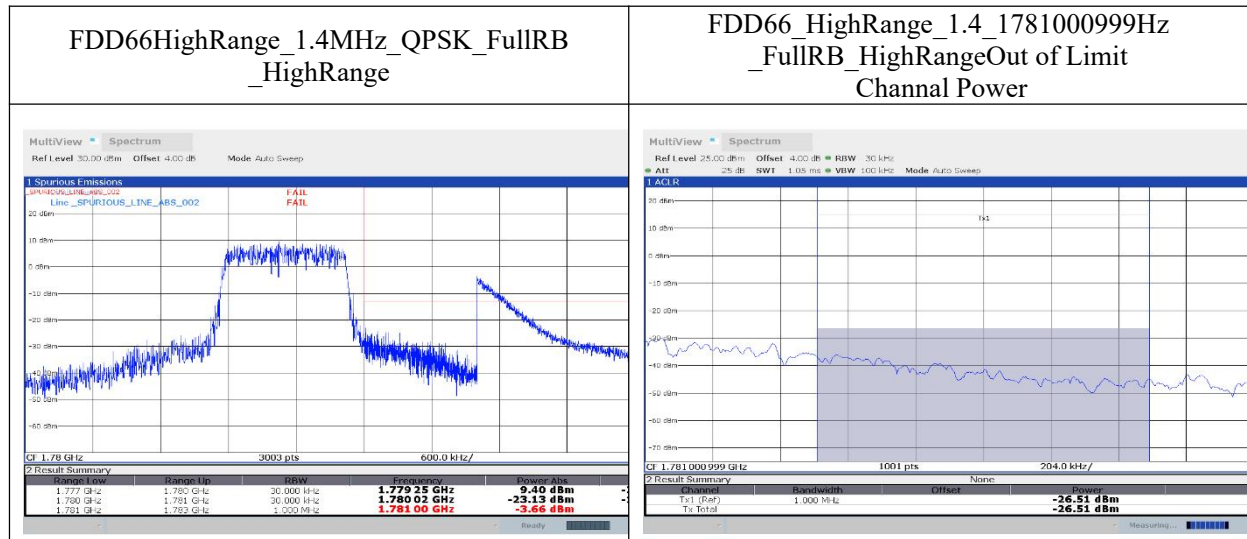
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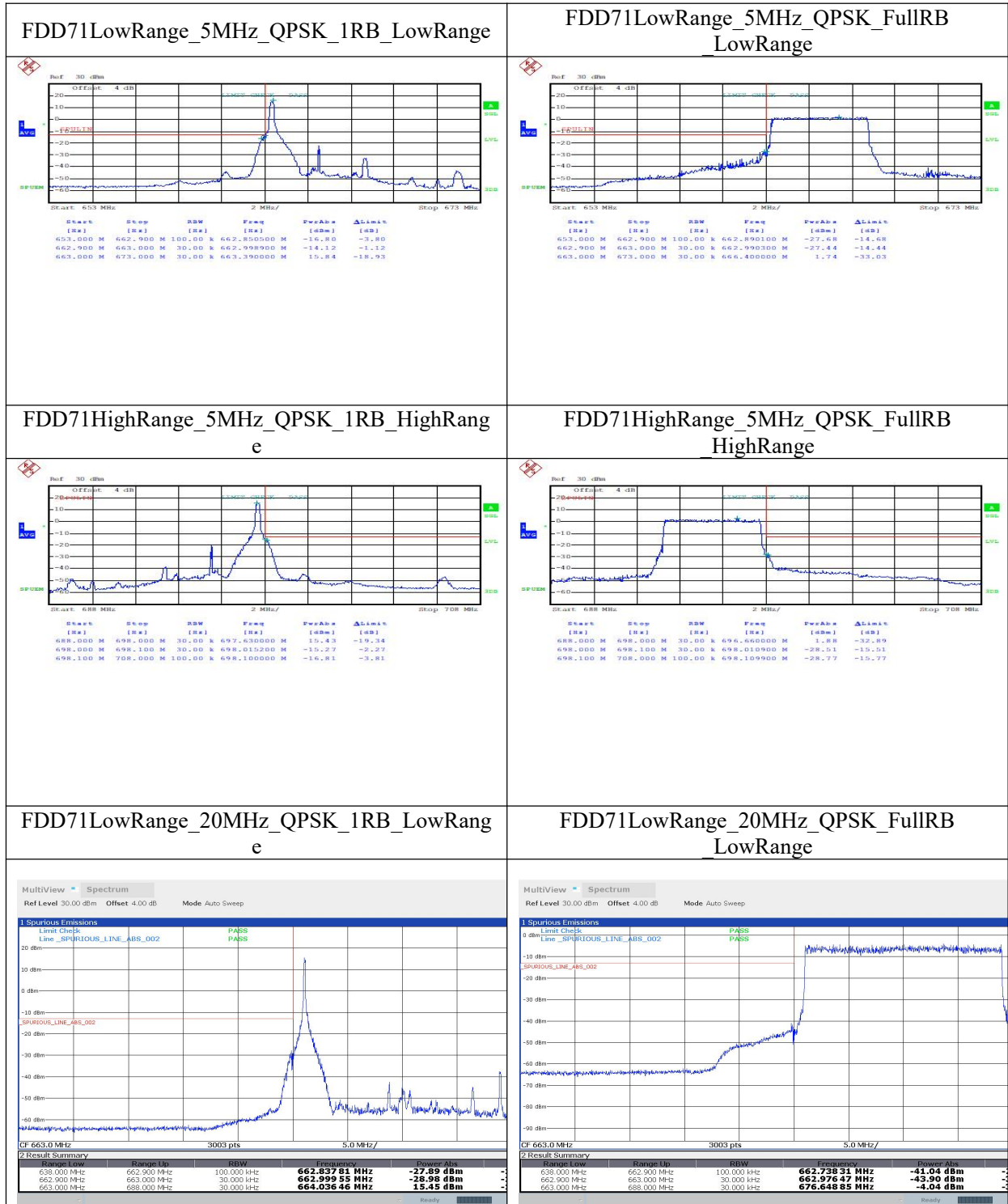
Band 71 (Only the worst mode data is provided)

Band	Range	BandWidth(MHz)	Modulation	RbMode
FDD71	LowRange	5	QPSK	1RB_LowRange
FDD71	LowRange	5	QPSK	FullRB_LowRange
FDD71	HighRange	5	QPSK	1RB_HighRange
FDD71	HighRange	5	QPSK	FullRB_HighRange
FDD71	LowRange	20	QPSK	1RB_LowRange
FDD71	LowRange	20	QPSK	FullRB_LowRange
FDD71	HighRange	20	QPSK	1RB_HighRange
FDD71	HighRange	20	QPSK	FullRB_HighRange

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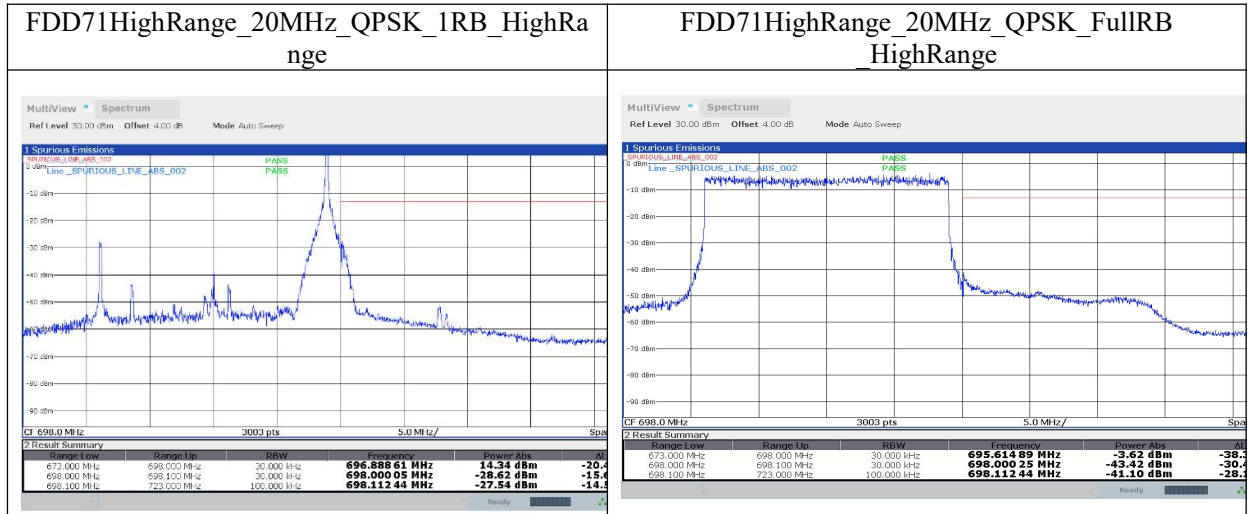
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FAX: 0086-23-88608777

6.8. EMISSION LIMIT

Specifications:	FCC Part 22.917(a)/24.238(a)/27.53(a)/27.53(c)(2)/ 27.53(f)/27.53(g)/27.53(m)/27.53(h)/ 90.691/90.543(e)/90.543(f) RSS 130 4.7,RSS-132 5.5/RSS-133 5.6, RSS-139 5.6,RSS 140 4.4,RSS-195 5.6, RSS-199 5.6
DUT Serial Number:	25B02W000004#S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

6.8.1. Measurement Limit

FCC §22.917(a) Out of band emissions. 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.

FCC §24.238(a) Out of band emissions. 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.

FCC§27.53(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC§90.691 Emission mask requirements for EA-based systems.

(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:

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(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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 kHz.

(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 $43 + 10 \text{ Log}_{10}(P)$ 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.

FCC §27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, 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 any frequency outside the 746-758 MHz 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;

(2) On any frequency outside the 776-788 MHz 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;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) 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 at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) 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.

FCC §27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ 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

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that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz 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.

FCC §27.53(h):

AWS emission limits —

(1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710–1755 MHz, 1755–1780 MHz, 1915–1920 MHz, 1995–2000 MHz, 2000–2020 MHz, 2110–2155 MHz, 2155–2180 MHz, and 2180–2200 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 $43 + 10 \log_{10}(P)$ dB.

(2) Additional protection levels. Notwithstanding the foregoing paragraph (h)(1) of this section:

(i) Operations in the 2180–2200 MHz band are subject to the out-of-band emission requirements set forth in § 27.1134 for the protection of federal government operations operating in the 2200–2290 MHz band.

(ii) For operations in the 2000–2020 MHz band, the power of any emissions below 2000 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iii) For operations in the 1915–1920 MHz band, the power of any emission between 1930–1995 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

(iv) For operations in the 1995–2000 MHz band, the power of any emission between 2005–2020 MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10 \log_{10}(P)$ dB.

FCC §27.50(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC §27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §90.543(e):

For operations in the 758-768 MHz and the 788-798 MHz 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 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

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

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

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(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.

FCC§90.543(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

RSS-133 5.6, RSS-199 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 MHz 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 MHz bands, a resolution bandwidth of 1 MHz 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 MHz, 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.

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

RSS-139 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.

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
1 MHz	-13 dBm/(1% of OB*)
>1 MHz	-13 dBm/MHz

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RSS-132 5.5

Equipment shall meet the unwanted emission limits specified below:

- v. In the first 1.0 MHz 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.
- vi. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz 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 kHz is required.

p is the output power specified in watts.

RSS 130 4.7:

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 $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in [section 4.7.1](#) above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

- e. the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - i. $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment and
 - ii. $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment
- f. the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

RSS 140 4.4:

The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dBW as follows, where p is the transmitter output power in watts:

- e. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. $76 + 10 \log(p)$, dB in a 6.25 kHz band for fixed and base station equipment
 - ii. $65 + 10 \log(p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- f. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log(p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1559-1610 MHz, shall not exceed -70 dBW/MHz for wideband emissions, and -80 dBW/kHz for discrete emissions of less than 700 Hz bandwidth.

RSS 195 5.6:

The transmitter unwanted emissions shall be measured with a resolution bandwidth of 1 MHz. A smaller resolution bandwidth is permitted provided that the measured power is integrated over the full required

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measurement bandwidth of 1 MHz. However, in the 1 MHz bands immediately adjacent to the edges of the frequency range(s) in which the equipment is allowed to operate, a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, shall be employed provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz.

Mobile, Portable and Low-Power Fixed Subscriber Equipment:

Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment	
Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See RSS 195 5.2 for the permitted frequency ranges for various equipment types.

6.8.2. Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in FCC §90.543

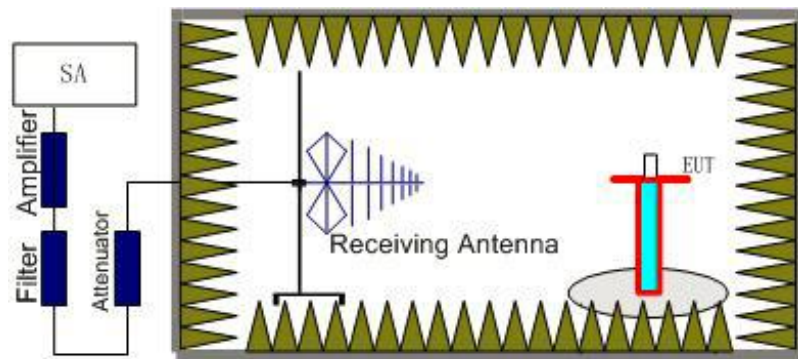
The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of LTE Band.

The procedure of radiated spurious emissions is as follows

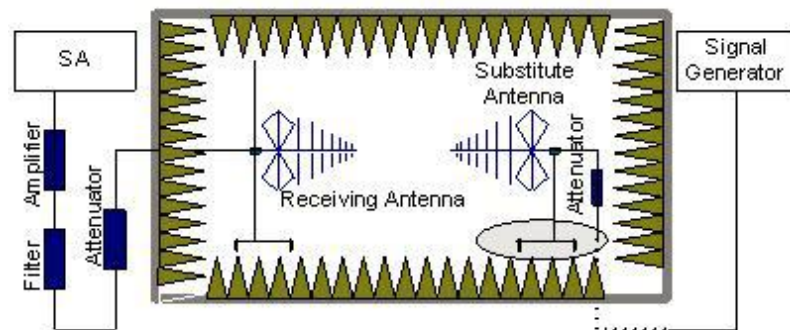
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10thharmonic were measured with peak detector.

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2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (Pcl) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (Ga) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Pcl) is the summation of the cable loss .

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$

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6.8.3. Measurement Uncertainty

Expanded Uncertainty	30MHz-150MHz 3.82 dB (k=2) 150MHz-1000MHz 3.97 dB (k=2) 1000MHz-3000MHz 3.09 dB (k=2) 3000MHz-6000MHz 3.29 dB (k=2) 6000MHz-18000MHz 3.91 dB (k=2) 18000MHz-26000MHz 4.60 dB (k=2) 26000MHz-40000MHz 4.77 dB (k=2)
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6.8.4. Measurement Results

Band	BW (MHz)	RB Config	Modulation	Channel	Frequency Range
Band 2	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 4	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 5	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 7	5	OneRB_low	QPSK	Low	30MHz~26.5GHz
				Middle	30MHz~26.5GHz
				High	30MHz~26.5GHz
Band 12	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 13	5	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 14	5	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 17	5	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 25	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz

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Band 26 (824-849MHz)	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 26 (814-824MHz)	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 30 (2305-2315)	5	OneRB_low	QPSK	Low	30MHz~26.5GHz
				Middle	30MHz~26.5GHz
				High	30MHz~26.5GHz
Band 38	5	OneRB_low	QPSK	Low	30MHz~26.5GHz
				Middle	30MHz~26.5GHz
				High	30MHz~26.5GHz
Band 41	5	OneRB_low	QPSK	Low	30MHz~40GHz
				Middle	30MHz~40GHz
				High	30MHz~40GHz
Band 41 (Note 1)	5	OneRB_low	QPSK	Low	30MHz~40GHz
Band66	1.4	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz
Band 71	5	OneRB_low	QPSK	Low	30MHz~20GHz
				Middle	30MHz~20GHz
				High	30MHz~20GHz

Note 1: This frequency range(2500-2690MHz) is only applicable for IC certification.

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RSE-LTE2-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3631.6	-54.33	6.6	7.9	-53.03	-13	40.03	H
5164.0	-52.76	7.9	9.4	-51.26	-13	38.26	V
7402.4	-39.99	9.7	11.6	-38.09	-13	25.09	V
9253.6	-48.95	10.7	12.7	-46.95	-13	33.95	V
12129.8	-47.05	12.6	12.3	-47.35	-13	34.35	V
14805.2	-39.43	14.3	12.3	-41.43	-13	28.43	V

RSE-LTE2-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3760.0	-57.02	6.6	7.9	-55.72	-13	42.72	V
4846.0	-54.34	7.6	9.0	-52.94	-13	39.94	H
7520.8	-38.78	9.7	11.6	-36.88	-13	23.88	V
9707.6	-50.84	10.9	12.7	-49.04	-13	36.04	V
12166.2	-45.96	12.6	12.3	-46.26	-13	33.26	V
16922.0	-33.67	16.3	12.3	-37.67	-13	24.67	V

RSE-LTE2-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3812.8	-55.96	6.7	7.9	-54.76	-13	41.76	H
5863.6	-55.59	8.4	10.2	-53.79	-13	40.79	H

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7636.8	-35.59	9.7	11.8	-33.49	-13	20.49	V
10404.8	-48.03	11.6	12.3	-47.33	-13	34.33	V
13364.6	-40.05	13.7	12.3	-41.45	-13	28.45	V
15572.4	-40.9	14.6	12.3	-43.2	-13	30.20	H

RSE-LTE4-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3414.4	-56.74	6.3	7.8	-55.24	-13	42.24	H
5118.0	-53.34	7.9	9.6	-51.64	-13	38.64	H
6843.2	-50.53	9.2	10.9	-48.83	-13	35.83	V
8553.6	-44.2	10.3	12.6	-41.9	-13	28.90	V
10506.8	-48.41	11.6	12.3	-47.71	-13	34.71	V
13685.2	-44.52	13.9	12.3	-46.12	-13	33.12	V

RSE-LTE4-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3506.4	-56.22	6.4	7.8	-54.82	-13	41.82	H
5144.0	-53	7.9	9.4	-51.5	-13	38.50	H
6930.0	-46.57	9.3	11.1	-44.77	-13	31.77	V
8662.4	-42.48	10.3	12.7	-40.08	-13	27.08	V
10912.4	-48.97	11.8	12.3	-48.47	-13	35.47	V
13860.2	-39.21	13.5	12.3	-40.41	-13	27.41	V

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RSE-LTE4-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3488.8	-56.5	6.4	7.8	-55.1	-13	42.10	V
5206.0	-53.04	8.0	9.4	-51.64	-13	38.64	H
7017.2	-42.69	9.3	11.1	-40.89	-13	27.89	V
8771.6	-49.2	10.4	12.7	-46.9	-13	33.90	V
11107.8	-47.16	12.1	12.3	-46.96	-13	33.96	V
13431.8	-43.69	13.7	12.3	-45.09	-13	32.09	V

RSE-LTE5-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1701.3	-50.97	4.5	4.7	-50.77	-13	37.77	H
2515.8	-45.62	5.4	5.6	-45.42	-13	32.42	V
3345.6	-56.76	6.2	6.9	-56.06	-13	43.06	H
4076.4	-56.63	7.0	8.6	-55.03	-13	42.03	H
5098.0	-53.23	7.9	9.6	-51.53	-13	38.53	H
5927.6	-55.51	8.5	10.2	-53.81	-13	40.81	H

RSE-LTE5-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1682.2	-51.52	4.5	4.7	-51.32	-13	38.32	H
2509.6	-32.42	5.4	5.6	-32.22	-13	19.22	H

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3487.6	-55.67	6.4	7.8	-54.27	-13	41.27	H
4757.6	-54.04	7.5	9.0	-52.54	-13	39.54	H
6224.8	-53.03	8.7	10.3	-51.43	-13	38.43	V
7527.7	-50.2	9.7	11.6	-48.3	-13	35.30	V

RSE-LTE5-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1527.2	-50.92	4.2	5.3	-49.82	-13	36.82	H
2544.6	-41.14	5.4	5.6	-40.94	-13	27.94	V
3553.6	-55.14	6.4	7.8	-53.74	-13	40.74	H
4660.0	-55.05	7.5	9.0	-53.55	-13	40.55	H
5796.0	-56.05	8.4	10.2	-54.25	-13	41.25	V
7634.2	-50.03	9.7	11.8	-47.93	-13	34.93	V

RSE-LTE7-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3673.2	-51.32	6.6	7.9	-50.02	-25	25.02	V
5007.2	-47.29	7.8	9.6	-45.49	-25	20.49	V
7508.8	-39.1	9.7	11.6	-37.2	-25	12.20	V
10079.6	-46.27	11.3	12.5	-45.07	-25	20.07	H
12506.8	-42.57	12.7	12.3	-42.97	-25	17.97	V
15599.0	-34.42	14.6	12.3	-36.72	-25	11.72	H

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RSE-LTE7-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3642.0	-50.67	6.6	7.9	-49.37	-25	24.37	H
5094.4	-47.38	7.9	9.6	-45.68	-25	20.68	V
7604.0	-39.18	9.7	11.6	-37.28	-25	12.28	V
10114.0	-45.13	11.3	12.5	-43.93	-25	18.93	H
12681.8	-42.54	12.7	12.3	-42.94	-25	17.94	V
15324.2	-34.87	14.4	12.3	-36.97	-25	11.97	H

RSE-LTE7-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3622.8	-51.48	6.5	7.8	-50.18	-25	25.18	H
5121.6	-47.43	7.9	9.6	-45.73	-25	20.73	V
7702.4	-34.88	9.8	11.8	-32.88	-25	7.88	V
10270.4	-44.77	11.5	12.3	-43.97	-25	18.97	V
12900.5	-40.02	13.0	12.3	-40.72	-25	15.72	H
15406.5	-34.31	14.4	12.3	-36.41	-25	11.41	H

RSE-LTE12-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
2098.8	-32.17	4.9	4.5	-32.57	-13	19.57	H
2808.8	-42.24	5.7	6.1	-41.84	-13	28.84	V

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3487.6	-56.81	6.4	7.8	-55.41	-13	42.41	V
4197.2	-56.94	7.0	8.9	-55.04	-13	42.04	H
4881.2	-54.98	7.7	9.6	-53.08	-13	40.08	H
5583.6	-55.92	8.3	9.8	-54.42	-13	41.42	H

RSE-LTE12-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1414.7	-51.98	4.0	5.3	-50.68	-13	37.68	V
2122.3	-34.57	4.9	4.5	-34.97	-13	21.97	H
2875.4	-41.35	5.8	6.7	-40.45	-13	27.45	H
3522.4	-55.56	6.4	7.8	-54.16	-13	41.16	H
4302.4	-57.26	7.1	8.9	-55.46	-13	42.46	H
5188.8	-53.39	8.0	9.4	-51.99	-13	38.99	V

RSE-LTE12-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
2145.8	-35.71	5.0	5.1	-35.61	-13	22.61	H
2810.8	-41.66	5.7	6.1	-41.26	-13	28.26	H
3513.6	-56.58	6.4	7.8	-55.18	-13	42.18	V
4277.2	-57.23	7.1	8.9	-55.43	-13	42.43	H
5126.4	-52.64	7.9	9.4	-51.14	-13	38.14	V
7868.2	-43.9	9.9	11.8	-42	-13	29.00	V

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RSE-LTE13-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1559.3	-53.34	4.2	5.3	-52.24	-40	12.24	H
2340.0	-42.59	5.2	5.1	-42.69	-13	29.69	H
3124.0	-56.06	6.0	6.7	-55.36	-13	42.36	H
3898.0	-57.39	6.8	8.6	-55.59	-13	42.59	H
4687.6	-56.71	7.5	9.0	-55.21	-13	42.21	H
5458.4	-55.36	8.1	9.8	-53.66	-13	40.66	H

RSE-LTE13-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1563.5	-52.83	4.2	5.3	-51.73	-40	38.73	V
2345.8	-38.58	5.2	5.1	-38.68	-13	25.68	H
3136.0	-56.07	6.0	6.9	-55.17	-13	42.17	H
3903.2	-56.23	6.8	8.6	-54.43	-13	41.43	H
4666.4	-56.15	7.5	9.0	-54.65	-13	41.65	H
7819.9	-47.51	9.9	11.8	-45.61	-13	32.61	V

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RSE-LTE13-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1569.0	-53.58	4.2	5.3	-52.48	-40	12.48	V
2351.9	-44.08	5.2	5.1	-44.18	-13	31.18	H
3141.2	-56.6	6.0	6.9	-55.7	-13	42.70	H
3932.0	-56.26	6.8	8.6	-54.46	-13	41.46	V
4712.4	-57.05	7.5	9.0	-55.55	-13	42.55	V
5493.6	-55.59	8.2	9.8	-53.99	-13	40.99	V

RSE-LTE14-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1587.7	-53.77	4.2	5.3	-52.67	-40	12.67	V
2371.2	-42.67	5.2	5.1	-42.77	-13	29.77	H
3174.0	-55.81	6.0	6.9	-54.91	-13	41.91	H
3978.8	-56.68	6.9	8.6	-54.98	-13	41.98	H
4790.8	-55.42	7.6	9.0	-54.02	-13	41.02	H
5557.6	-55.76	8.2	9.8	-54.16	-13	41.16	H

RSE-LTE14-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1585.3	-53.38	4.2	5.3	-52.28	-40	12.28	H
2380.4	-44.78	5.2	5.6	-44.38	-13	31.38	H

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3181.6	-56.82	6.1	6.9	-56.02	-13	43.02	H
3954.8	-56.62	6.8	8.6	-54.82	-13	41.82	V
4742.4	-56.14	7.5	9.0	-54.64	-13	41.64	H
5542.8	-55.69	8.2	9.8	-54.09	-13	41.09	H

RSE-LTE14-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1588.8	-52.92	4.2	5.3	-51.82	-40	11.82	V
2391.9	-45.05	5.2	5.6	-44.65	-13	31.65	H
3171.6	-56.05	6.0	6.9	-55.15	-13	42.15	H
3940.0	-57.01	6.8	8.6	-55.21	-13	42.21	V
4786.0	-55.19	7.6	9.0	-53.79	-13	40.79	H
5550.4	-55.41	8.2	9.8	-53.81	-13	40.81	H

RSE-LTE17-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1411.9	-54.59	4.0	5.3	-53.29	-13	40.29	V
2119.6	-43.91	4.9	4.5	-44.31	-13	31.31	H
2819.2	-41.46	5.7	6.1	-41.06	-13	28.06	V
3557.6	-54.97	6.4	7.8	-53.57	-13	40.57	H
4236.8	-57.48	7.1	8.9	-55.68	-13	42.68	H
4954.4	-53.64	7.7	9.6	-51.74	-13	38.74	H

RSE-LTE17-M

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Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
2134.6	-42.25	5.0	5.1	-42.15	-13	29.15	H
2843.8	-41.9	5.8	6.1	-41.6	-13	28.60	V
3564.4	-55.36	6.4	7.8	-53.96	-13	40.96	V
4245.6	-56.78	7.1	8.9	-54.98	-13	41.98	H
4977.6	-54.75	7.8	9.6	-52.95	-13	39.95	H
5669.6	-57.65	8.3	10.2	-55.75	-13	42.75	H

RSE-LTE17-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1424.0	-54.26	4.0	5.3	-52.96	-13	39.96	V
2140.0	-45.68	5.0	5.1	-45.58	-13	32.58	V
2844.6	-41.86	5.8	6.1	-41.56	-13	28.56	V
3554.0	-55.95	6.4	7.8	-54.55	-13	41.55	H
4258.8	-57.17	7.1	8.9	-55.37	-13	42.37	H
5020.0	-53.66	7.8	9.6	-51.86	-13	38.86	H

RSE-LTE25-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3704.8	-55.55	6.6	7.9	-54.25	-13	41.25	H
5530.0	-55.85	8.2	9.8	-54.25	-13	41.25	H
7403.2	-37.87	9.7	11.6	-35.97	-13	22.97	V

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9253.2	-48.35	10.7	12.7	-46.35	-13	33.35	V
11203.0	-48.22	12.1	12.3	-48.02	-13	35.02	V
14806.6	-39.07	14.3	12.3	-41.07	-13	28.07	V

RSE-LTE25-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3765.6	-56.58	6.6	7.9	-55.28	-13	42.28	H
5645.2	-57.22	8.3	10.2	-55.32	-13	42.32	V
7530.0	-39	9.7	11.6	-37.1	-13	24.10	V
9412.4	-49.6	10.7	12.7	-47.6	-13	34.60	V
11287.0	-49.44	12.1	12.3	-49.24	-13	36.24	V
13178.4	-46.12	13.0	12.3	-46.82	-13	33.82	V

RSE-LTE25-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3830.0	-56.74	6.7	7.9	-55.54	-13	42.54	H
5746.8	-56.87	8.5	10.2	-55.17	-13	42.17	H
7657.6	-35	9.7	11.8	-32.9	-13	19.90	V
9570.0	-50.88	10.8	12.7	-48.98	-13	35.98	V
11530.6	-46.97	12.3	12.3	-46.97	-13	33.97	V
13399.6	-41.32	13.7	12.3	-42.72	-13	29.72	V

RSE-LTE26-L-830.3
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1660.8	-51.48	4.5	4.7	-51.28	-13	38.28	H
2490.8	-39.03	5.4	5.6	-38.83	-13	25.83	H
3321.2	-56.97	6.2	6.9	-56.27	-13	43.27	V
4154.8	-57.21	7.0	8.9	-55.31	-13	42.31	V
4983.2	-54.74	7.8	9.6	-52.94	-13	39.94	H
5813.2	-57.99	8.4	10.2	-56.19	-13	43.19	H

RSE-LTE26-M-836.5

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1672.5	-51.75	4.5	4.7	-51.55	-13	38.55	V
2508.8	-44	5.4	5.6	-43.8	-13	30.80	H
3344.8	-57.09	6.2	6.9	-56.39	-13	43.39	H
4182.0	-56.73	7.0	8.9	-54.83	-13	41.83	H
5014.0	-55.54	7.8	9.6	-53.74	-13	40.74	H
5857.2	-56.62	8.4	10.2	-54.82	-13	41.82	H

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RSE-LTE26-H-842.8

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1684.3	-52.26	4.5	4.7	-52.06	-13	39.06	V
2528.5	-40.1	5.4	5.6	-39.9	-13	26.90	H
3368.8	-55.89	6.2	6.9	-55.19	-13	42.19	V
4214.4	-58.11	7.0	8.9	-56.21	-13	43.21	V
5058.0	-54.52	7.8	9.6	-52.72	-13	39.72	H
5884.8	-56.16	8.5	10.2	-54.46	-13	41.46	H

RSE-LTE26-L-816.5

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1635.5	-54.35	4.2	4.7	-53.85	-13	40.85	H
2449.2	-36.53	5.4	5.6	-36.33	-13	23.33	H
3264.8	-57.2	6.1	6.9	-56.4	-13	43.40	V
4082.4	-57.79	7.0	8.6	-56.19	-13	43.19	V
4886.0	-56.5	7.7	9.6	-54.6	-13	41.60	H
5718.4	-57.44	8.5	10.2	-55.74	-13	42.74	V

RSE-LTE26-M-819

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1638.3	-52.23	4.2	4.7	-51.73	-13	38.73	V
2456.9	-37.51	5.4	5.6	-37.31	-13	24.31	H

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3279.6	-56.69	6.2	6.9	-55.99	-13	42.99	H
4095.6	-57.62	7.0	8.6	-56.02	-13	43.02	H
4922.8	-54.53	7.7	9.6	-52.63	-13	39.63	H
5727.6	-58.27	8.5	10.2	-56.57	-13	43.57	V

RSE-LTE26-H-821.5

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1642.4	-51.25	4.2	4.7	-50.75	-13	37.75	V
2464.2	-34.96	5.4	5.6	-34.76	-13	21.76	H
3286.4	-56.73	6.2	6.9	-56.03	-13	43.03	V
4107.6	-57.46	7.0	8.6	-55.86	-13	42.86	V
4938.0	-54.94	7.7	9.6	-53.04	-13	40.04	H
5755.6	-57.72	8.5	10.2	-56.02	-13	43.02	V

RSE-LTE30-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
4617.7	-54.29	7.4	8.7	-52.99	-40	12.99	V
6921.5	-47.44	9.3	11.1	-45.64	-40	5.64	V
9231.0	-60.66	10.5	12.6	-58.56	-40	18.56	V
11544.0	-55.69	12.3	12.3	-55.69	-40	15.69	H
13848.0	-55.1	13.8	12.3	-56.6	-40	16.60	H
16154.0	-47.87	14.9	12.3	-50.47	-40	10.47	V

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RSE-LTE30-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
4613.4	-54.07	7.4	8.7	-52.77	-40	12.77	V
6930.0	-48.04	9.3	11.1	-46.24	-40	6.24	H
9240.0	-60.35	10.5	12.6	-58.25	-40	18.25	H
11548.0	-56.02	12.3	12.3	-56.02	-40	16.02	H
13857.0	-55.25	13.5	12.3	-56.45	-40	16.45	H
16173.0	-48.24	14.9	12.3	-50.84	-40	10.84	V

RSE-LTE30-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
4623.9	-54.26	7.4	8.7	-52.96	-40	12.96	V
6938.7	-48.45	9.3	11.1	-46.65	-40	6.65	V
9250.0	-59.74	10.5	12.6	-57.64	-40	17.64	V
11557.0	-56.1	12.2	12.3	-56	-40	16.00	H
13873.0	-55.43	13.5	12.3	-56.63	-40	16.63	H
16189.0	-47.8	14.9	12.3	-50.4	-40	10.40	V

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RSE-LTE38-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3646.8	-51.19	6.6	7.9	-49.89	-25	24.89	V
5144.4	-47.86	7.9	9.4	-46.36	-25	21.36	H
7718.4	-36.17	9.8	11.8	-34.17	-25	9.17	V
10262.0	-44.96	11.5	12.3	-44.16	-25	19.16	V
12862.0	-40.43	13.0	12.3	-41.13	-25	16.13	H
15168.5	-35.86	14.5	12.3	-38.06	-25	13.06	H

RSE-LTE38-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3680.8	-51.07	6.6	7.9	-49.77	-25	24.77	H
5187.6	-46.28	8.0	9.4	-44.88	-25	19.88	H
7784.8	-33.9	9.9	11.8	-32	-25	7.00	V
10365.6	-45.29	11.6	12.3	-44.59	-25	19.59	H
12975.8	-39.14	13.2	12.3	-40.04	-25	15.04	V
15882.5	-33.39	15.0	12.3	-36.09	-25	11.09	V

RSE-LTE38-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3651.6	-50.88	6.6	7.9	-49.58	-25	24.58	H
5232.4	-47.1	8.0	9.4	-45.7	-25	20.70	V

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7852.4	-30.55	9.9	11.8	-28.65	-25	3.65	V
10406.8	-44.1	11.6	12.3	-43.4	-25	18.40	H
13415.0	-38.67	13.7	12.3	-40.07	-25	15.07	V
16726.0	-30.86	15.1	12.3	-33.66	-25	8.66	H

RSE-LTE41-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3748.0	-52.49	6.6	7.9	-51.19	-25	26.19	H
5629.2	-52.79	8.3	10.2	-50.89	-25	25.89	H
7495.2	-36.51	9.7	11.6	-34.61	-25	9.61	V
9350.4	-48.01	10.7	12.7	-46.01	-25	21.01	V
11236.2	-43.93	12.1	12.3	-43.73	-25	18.73	V
14988.2	-34.12	14.4	12.3	-36.22	-25	11.22	V

RSE-LTE41-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3585.6	-44.52	6.5	7.8	-43.22	-25	18.22	V
5188.4	-46.65	8.0	9.4	-45.25	-25	20.25	H
7777.6	-37.09	9.9	11.8	-35.19	-25	10.19	H
10725.6	-45.57	11.7	12.3	-44.97	-25	19.97	V
13420.2	-38.57	13.7	12.3	-39.97	-25	14.97	H
16962.2	-30.25	16.0	12.3	-33.95	-25	8.95	H

RSE-LTE41-H

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Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3528.4	-46.39	6.4	7.8	-44.99	-25	19.99	V
5372.8	-44.76	8.1	9.4	-43.46	-25	18.46	H
8062.4	-28.28	9.9	12.2	-25.98	-25	0.98	H
10172.4	-45.54	11.3	12.5	-44.34	-25	19.34	H
13325.8	-38.93	13.6	12.3	-40.23	-25	15.23	H
16962.2	-30.41	16.0	12.3	-34.11	-25	9.11	H

RSE-LTE41-L-2502.5MHZ

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3760.8	-53.14	6.6	7.9	-51.84	-25	26.84	V
5628.4	-53.22	8.3	10.2	-51.32	-25	26.32	V
7507.2	-36.63	9.7	11.6	-34.73	-25	9.73	V
9386.8	-48.82	10.7	12.7	-46.82	-25	21.82	V
11217.0	-43.95	12.1	12.3	-43.75	-25	18.75	V
15012.8	-33.04	14.4	12.3	-35.14	-25	10.14	V

RSE-LTE66-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3490.4	-56.45	6.4	7.8	-55.05	-13	42.05	H
5221.2	-53.79	8.0	9.4	-52.39	-13	39.39	H
6843.6	-49.82	9.2	10.9	-48.12	-13	35.12	V

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8553.6	-43.33	10.3	12.6	-41.03	-13	28.03	V
10663.2	-48.43	11.7	12.3	-47.83	-13	34.83	V
13685.2	-43.83	13.9	12.3	-45.43	-13	32.43	V

RSE-LTE66-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3490.4	-57.41	6.4	7.8	-56.01	-13	43.01	V
5225.6	-53.86	8.0	9.4	-52.46	-13	39.46	H
6979.6	-43.54	9.3	11.1	-41.74	-13	28.74	V
8725.2	-44.28	10.4	12.7	-41.98	-13	28.98	V
10439.2	-48.84	11.6	12.3	-48.14	-13	35.14	V
13959.6	-41.48	13.7	12.3	-42.88	-13	29.88	V

RSE-LTE66-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3507.6	-56.45	6.4	7.8	-55.05	-13	42.05	V
5240.8	-54.53	8.0	9.4	-53.13	-13	40.13	H
7116.4	-43.75	9.4	11.1	-42.05	-13	29.05	V
8896.4	-48.46	10.4	12.6	-46.26	-13	33.26	V
11319.2	-47.23	12.1	12.3	-47.03	-13	34.03	V
14234.0	-40.59	13.7	12.3	-41.99	-13	28.99	V

RSE-LTE71-L-

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Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1335.8	-50.66	3.9	3.0	-51.56	-13	38.56	H
1996.8	-39.84	4.8	4.5	-40.14	-13	27.14	V
2666.4	-47.31	5.5	6.1	-46.71	-13	33.71	V
3328.0	-45.4	6.2	6.9	-44.7	-13	31.70	V
3996.6	-45.86	6.9	8.6	-44.16	-13	31.16	H
4659.2	-43.56	7.5	9.0	-42.06	-13	29.06	H

RSE-LTE71-M-

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1361.0	-50.9	3.9	3.0	-51.8	-13	38.80	V
2040.3	-40.51	4.8	4.5	-40.81	-13	27.81	H
2722.6	-46.66	5.6	6.1	-46.16	-13	33.16	H
3405.6	-47.63	6.3	7.8	-46.13	-13	33.13	V
4089.7	-45.12	7.0	8.6	-43.52	-13	30.52	V
4756.9	-43.76	7.5	9.0	-42.26	-13	29.26	V

RSE-LTE71-H-

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1393.7	-53.11	4.0	5.3	-51.81	-13	38.81	V
2084.5	-44.49	4.9	4.5	-44.89	-13	31.89	V
2789.9	-46.57	5.7	6.1	-46.17	-13	33.17	H

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3476.5	-46.52	6.4	7.8	-45.12	-13	32.12	V
4186.0	-46.02	7.0	8.9	-44.12	-13	31.12	V
4866.2	-43.95	7.6	9.0	-42.55	-13	29.55	V

Note: Only worse case is recorded in this report.

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6.9. Peak-To-Average Power Ratio

Specifications:	FCC Part 24.232 (d)/ 27.50(d)(5)/27.50(d)(5) RSS 130 4.6,RSS-132 5.4,RSS-133 5.5, RSS-139 5.5,RSS 140 4.3,RSS-195 5.5, RSS-199 5.5
DUT Serial Number:	25B02W000004#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-70% Air pressure: 86-106kPa
Test Results:	Pass

6.9.1. Measurement Limit

The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

6.9.2. Method of Measurement

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

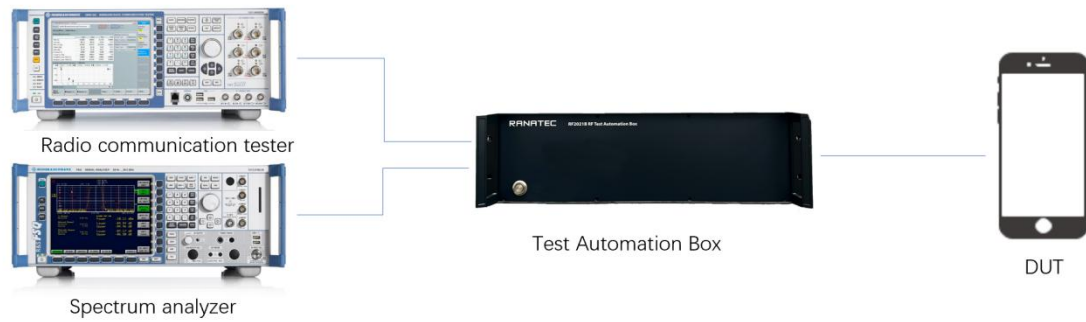
According to KDB 971168 5.7:

- Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Set the measurement interval to 1 ms
- Record the maximum PAPR level associated with a probability of 0.1%

6.9.3. Measurement Uncertainty

Expanded Uncertainty	0.36 dB (k=2)
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6.9.4. Test Setup



6.9.5. Measurement results

Band	Range	BandWidth	RbMode	QPSK(dBm)	16QAM(dBm)
FDD02	LowRange	20	fullRB	5.56	6.66
FDD02	MidRange	20	fullRB	5.66	6.76
FDD02	HighRange	20	fullRB	5.60	6.74
FDD04	LowRange	20	fullRB	5.62	6.64
FDD04	MidRange	20	fullRB	5.64	6.56
FDD04	HighRange	20	fullRB	5.56	6.56
FDD05	LowRange	10	fullRB	5.84	6.52
FDD05	MidRange	10	fullRB	5.76	6.58
FDD05	HighRange	10	fullRB	5.80	6.56
FDD07	LowRange	20	fullRB	4.97	6.31
FDD07	MidRange	20	fullRB	5.03	6.35
FDD07	HighRange	20	fullRB	5.13	6.31
FDD12	LowRange	10	fullRB	5.20	5.92
FDD12	MidRange	10	fullRB	5.22	6.04
FDD12	HighRange	10	fullRB	5.18	6.02
FDD13	LowRange	10	fullRB	5.64	6.40

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FDD13	MidRange	10	fullRB	5.70	6.48
FDD13	HighRange	10	fullRB	5.74	6.46
FDD14	LowRange	10	fullRB	5.76	6.44
FDD14	MidRange	10	fullRB	5.74	6.48
FDD14	HighRange	10	fullRB	5.68	6.50
FDD17	LowRange	10	fullRB	5.40	6.18
FDD17	MidRange	10	fullRB	5.40	6.24
FDD17	HighRange	10	fullRB	5.36	6.16
FDD25	LowRange	20	fullRB	5.62	6.72
FDD25	MidRange	20	fullRB	5.58	6.60
FDD25	HighRange	20	fullRB	5.60	6.74
FDD26_22	LowRange	15	fullRB	5.30	6.36
FDD26_22	MidRange	15	fullRB	5.20	6.44
FDD26_22	HighRange	15	fullRB	5.30	6.38
FDD26_90	LowRange	10	fullRB	5.90	6.64
FDD26_90	MidRange	10	fullRB	5.90	6.64
FDD26_90	HighRange	10	fullRB	5.88	6.62
FDD30	LowRange	10	fullRB	5.56	6.34
FDD30	MidRange	10	fullRB	5.50	6.30
FDD30	HighRange	10	fullRB	5.50	6.32
TDD38	LowRange	20	fullRB	7.62	8.60
TDD38	MidRange	20	fullRB	7.62	8.62
TDD38	HighRange	20	fullRB	7.64	8.68
TDD41	LowRange	20	fullRB	7.66	8.64
TDD41	MidRange	20	fullRB	7.62	8.58
TDD41	HighRange	20	fullRB	7.62	8.58

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