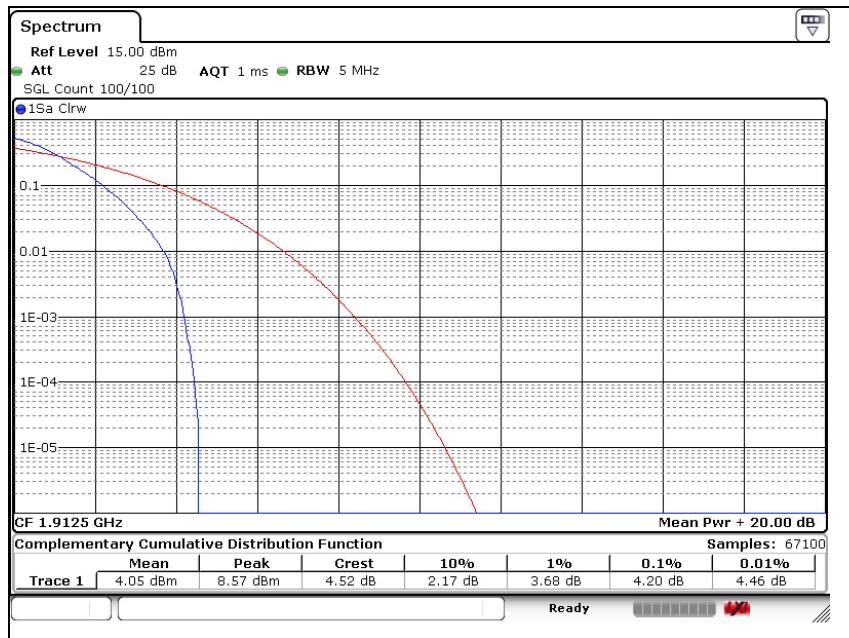
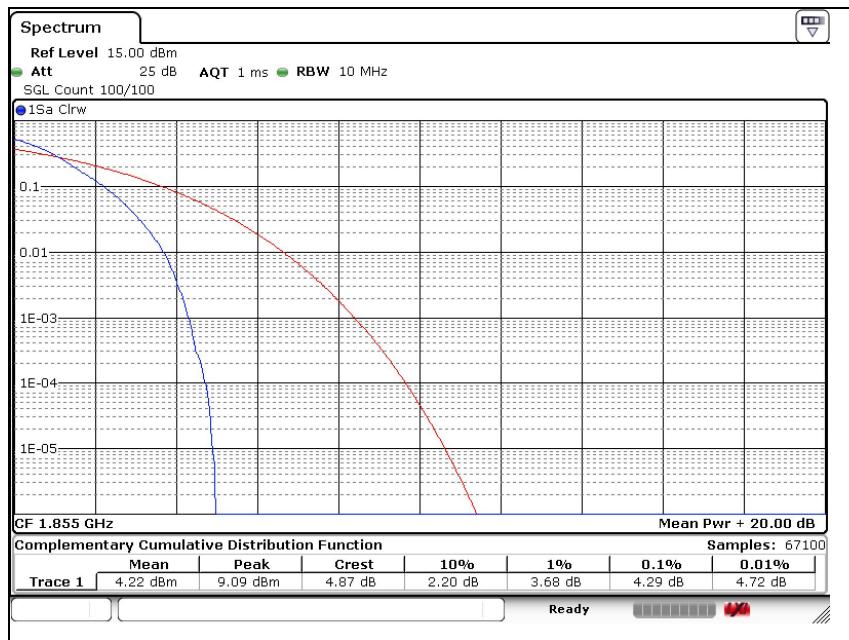


## High Channel



## LTE band 25/2 (10 MHz – QPSK)

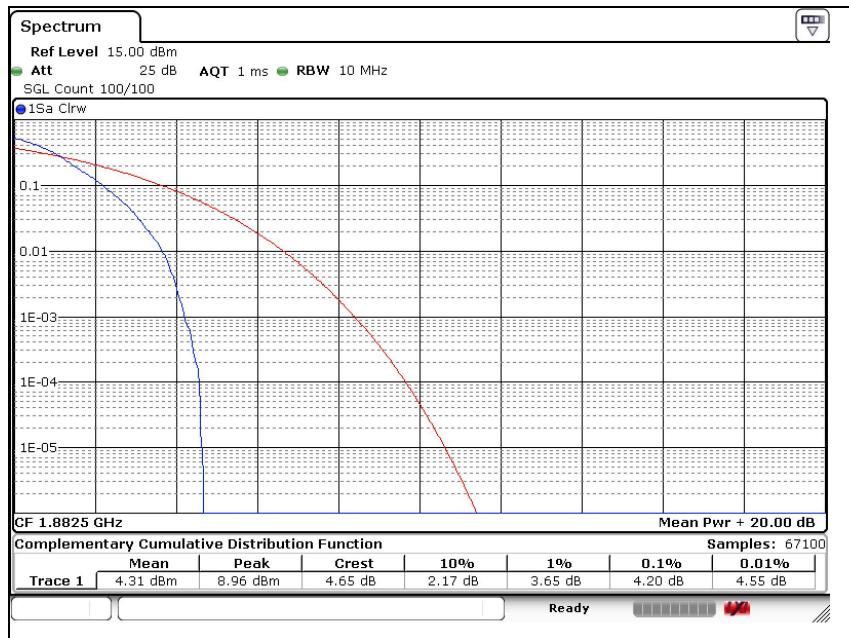
## Low Channel



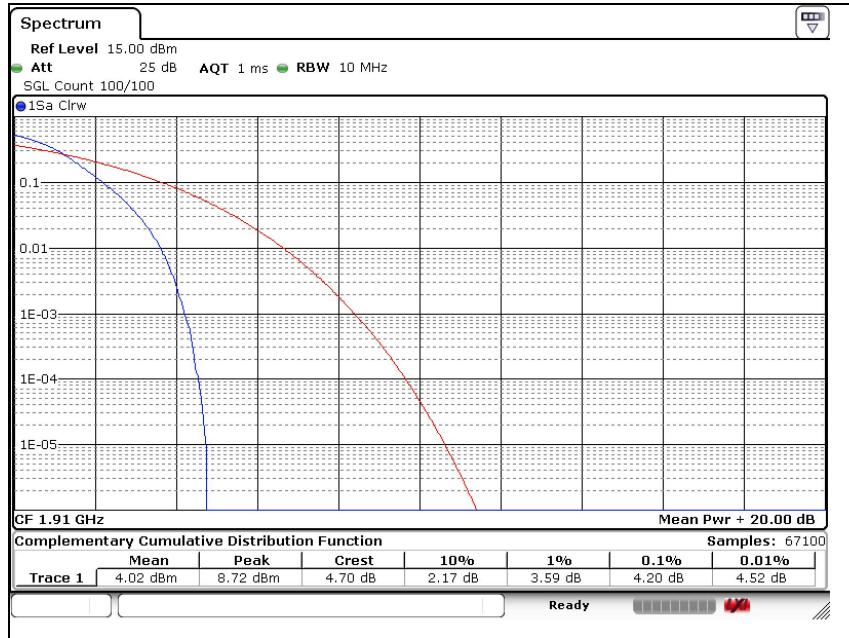
The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

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## Middle Channel



## High Channel



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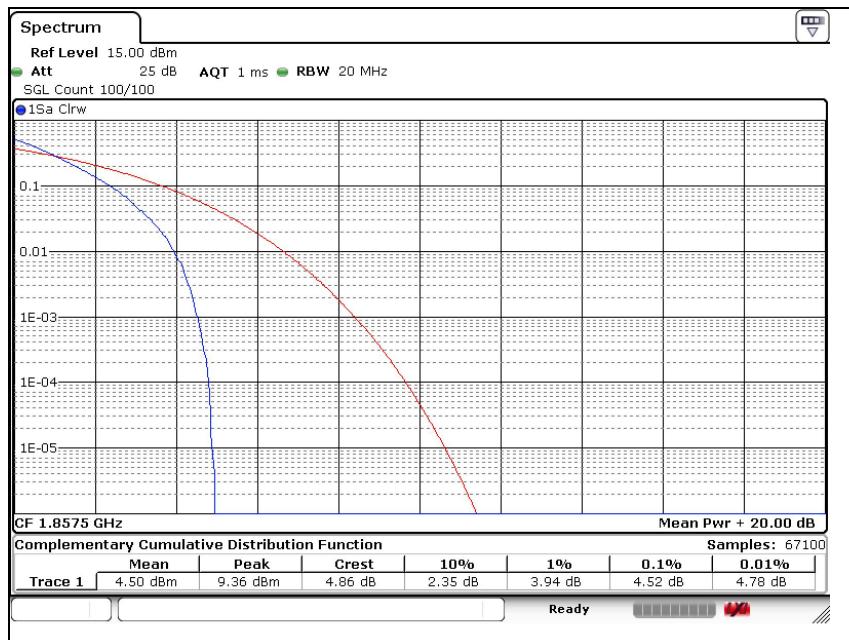
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

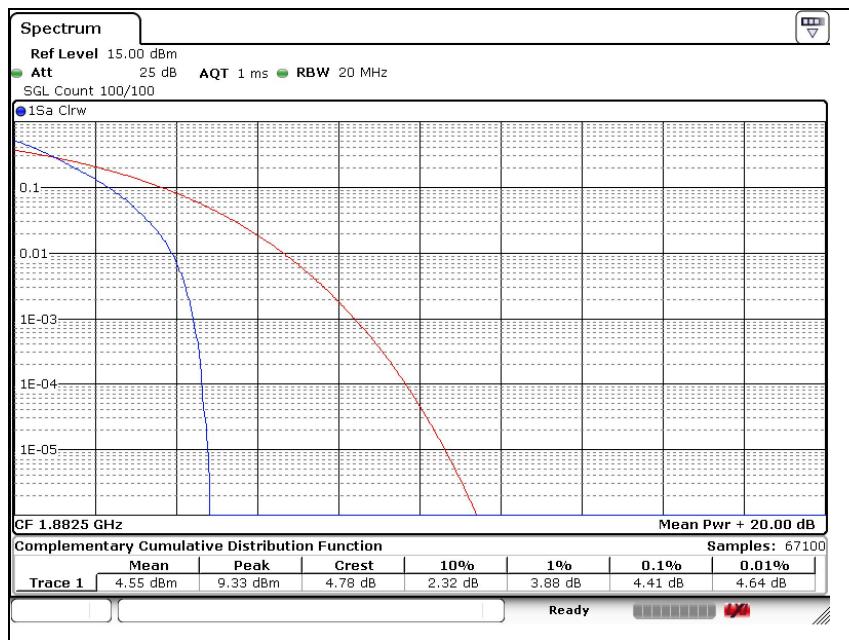
A4(210 mm x 297 mm)

**LTE band 25/2 (15 MHz – QPSK)**

## Low Channel



## Middle Channel



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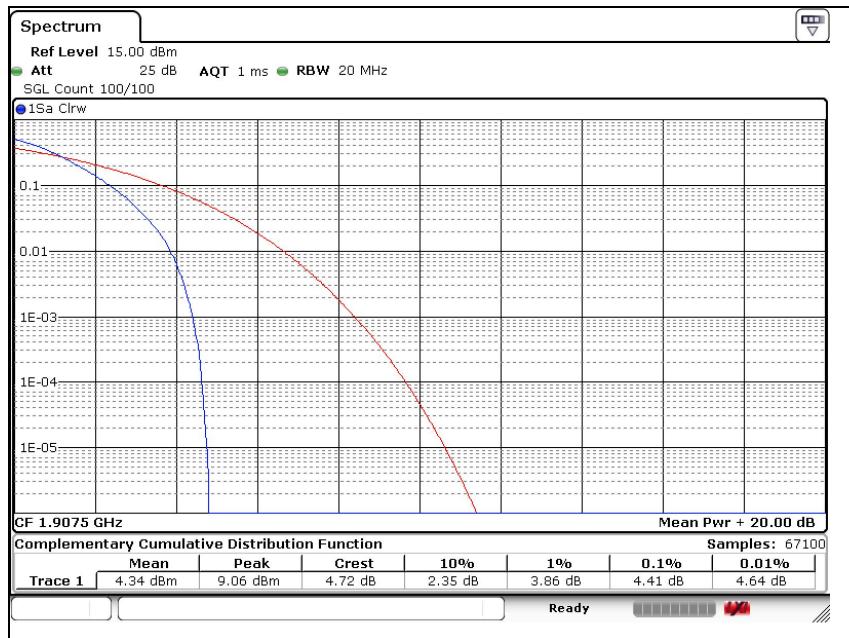
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

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Tel. +82 31 428 5700 / Fax. +82 31 427 2370

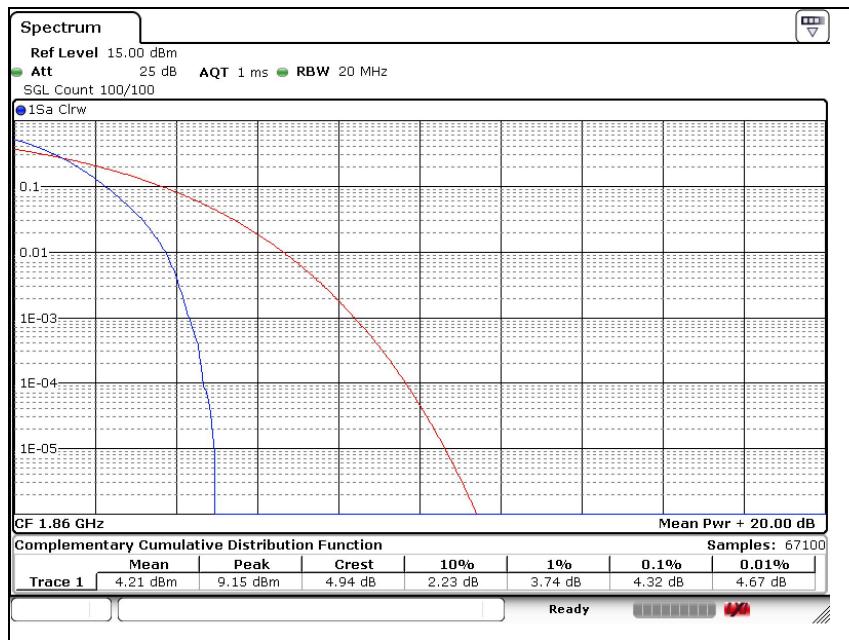
A4(210 mm x 297 mm)

## High Channel



## LTE band 25/2 (20 MHz – QPSK)

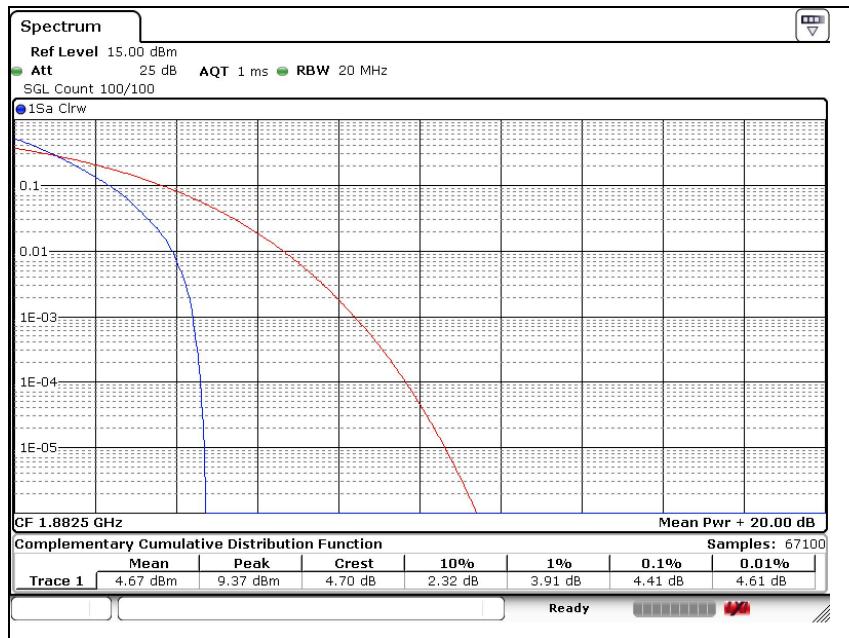
## Low Channel



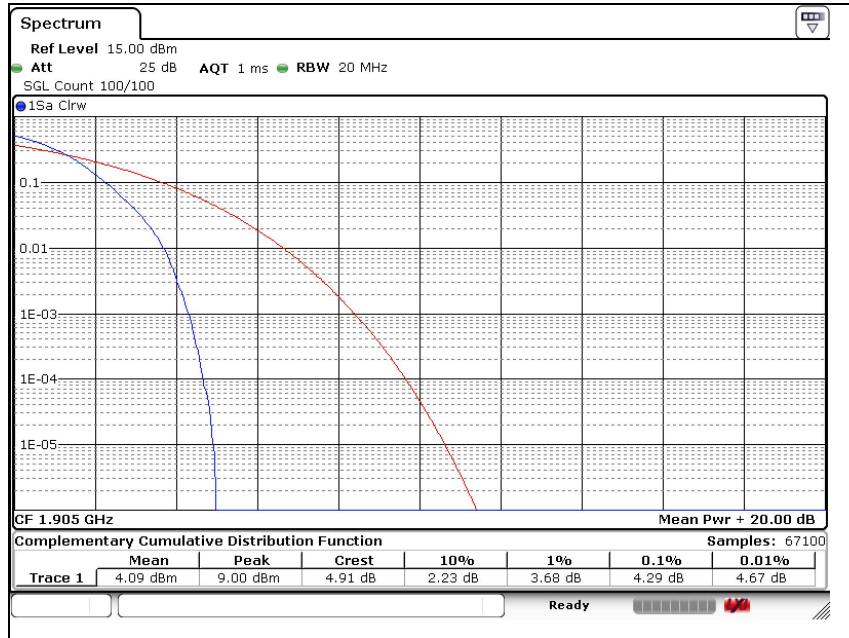
*The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.*

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## Middle Channel



## High Channel

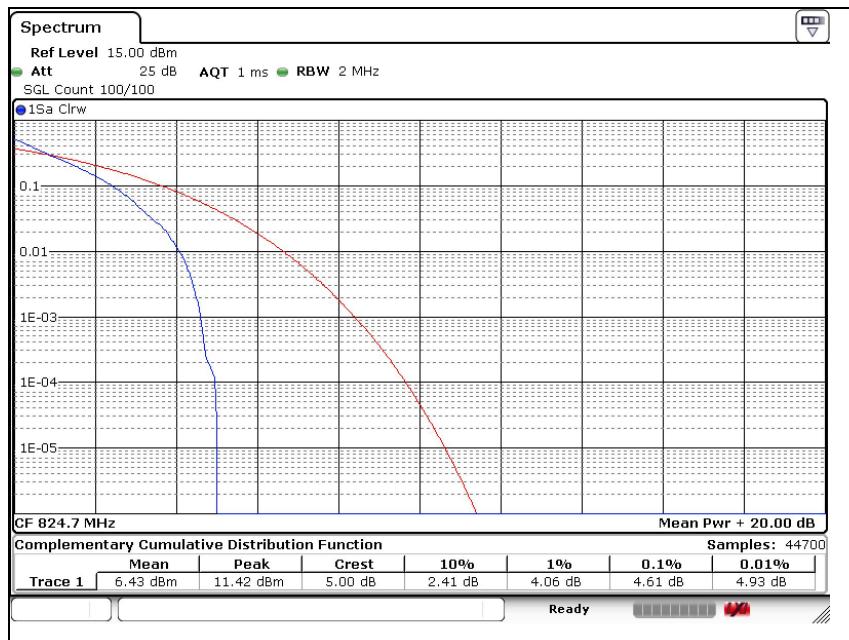


The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

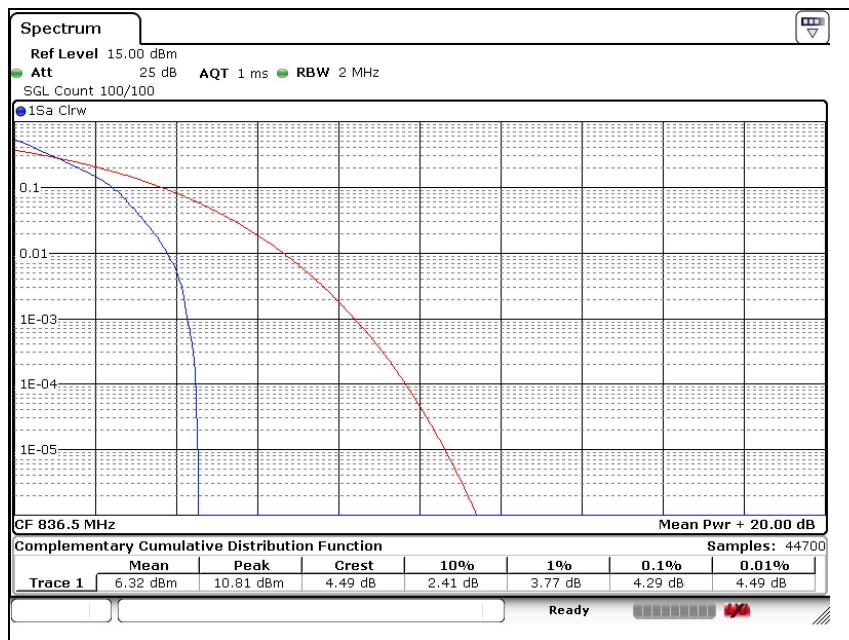
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

**LTE band 26/5 (1.4 MHz – QPSK)**

## Low Channel



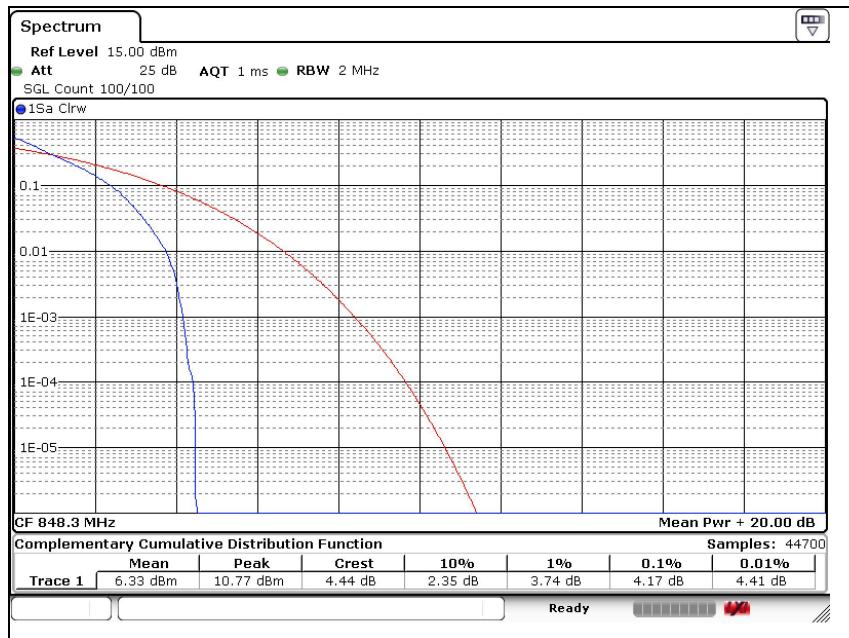
## Middle Channel



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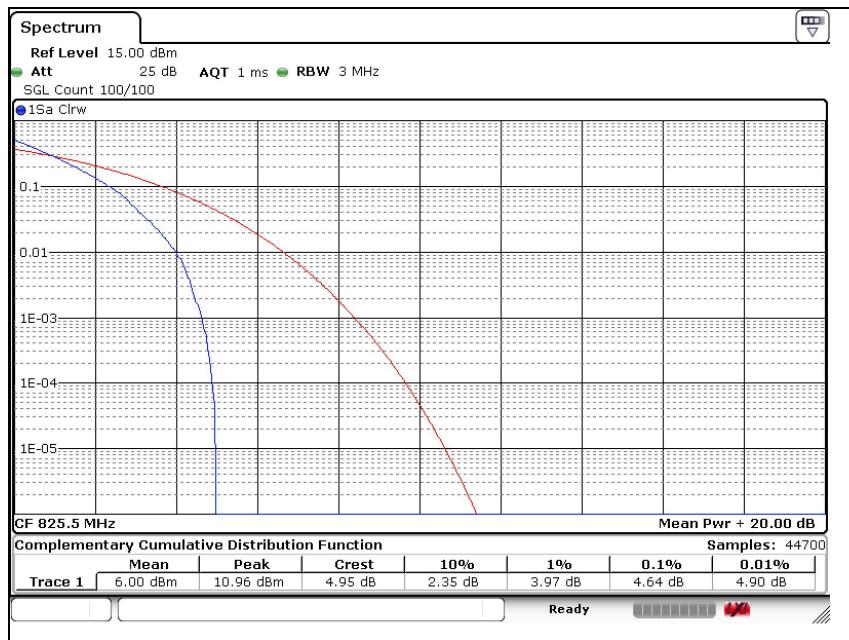
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## High Channel



## LTE band 26/5 (3 MHz – QPSK)

## Low Channel



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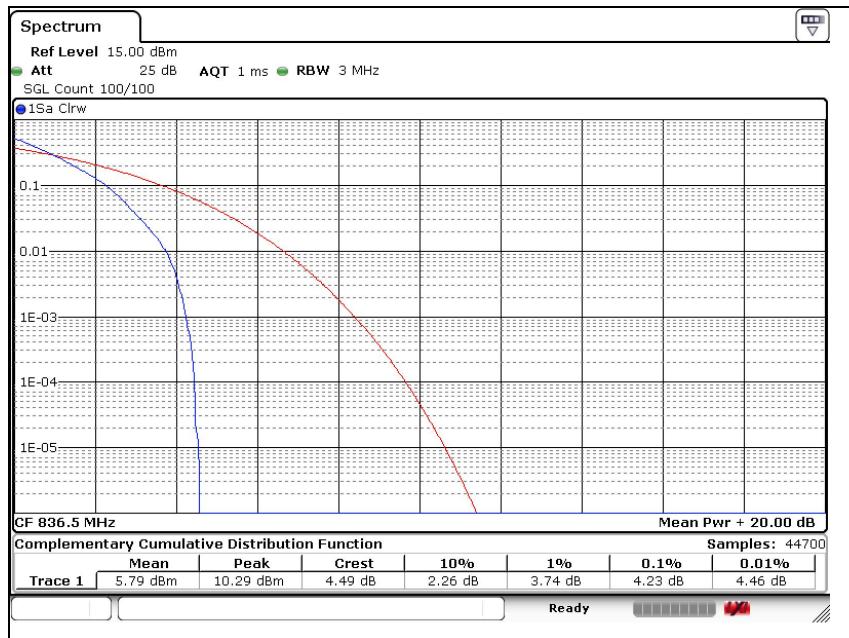
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RTT5041-19(2019.04.24)(1)

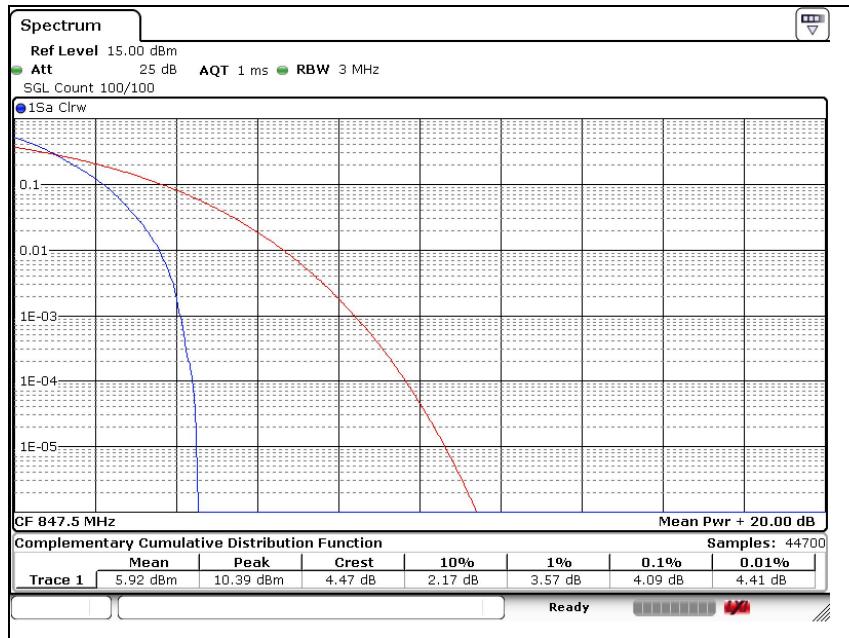
Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

## Middle Channel



## High Channel



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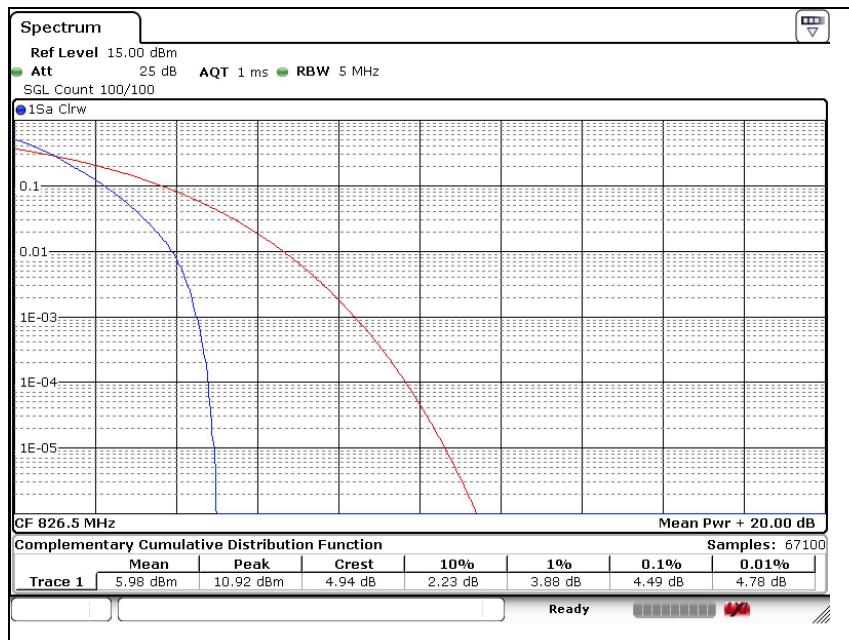
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

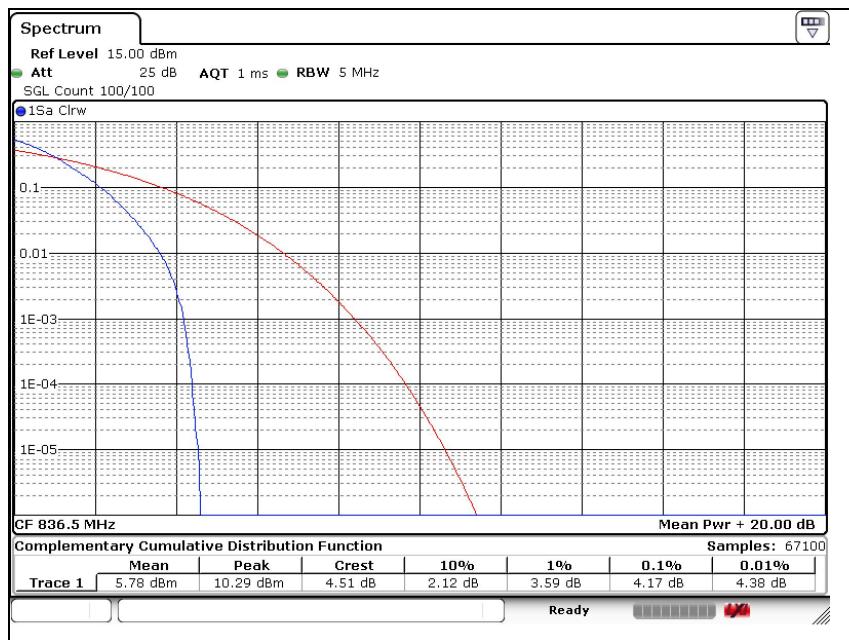
A4(210 mm x 297 mm)

**LTE band 26/5 (5 MHz – QPSK)**

## Low Channel



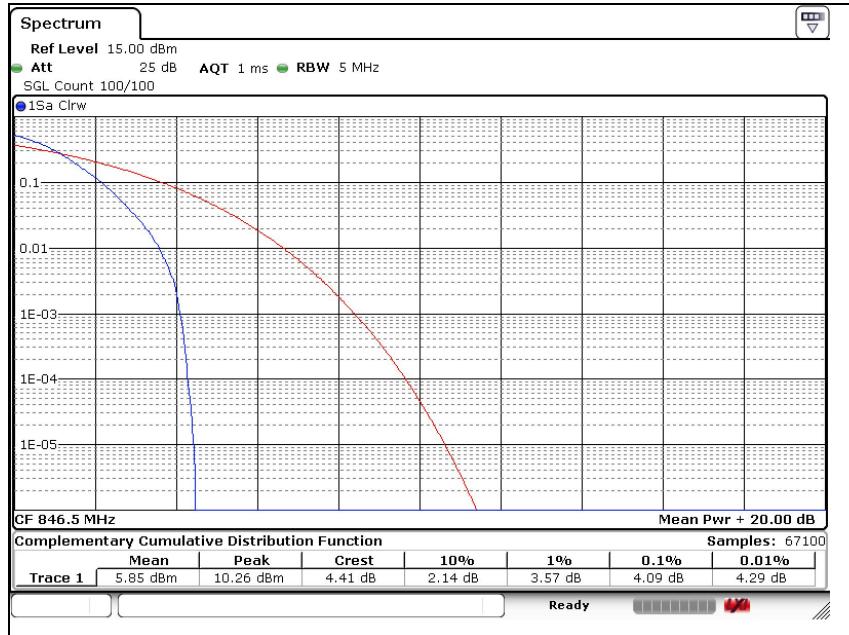
## Middle Channel



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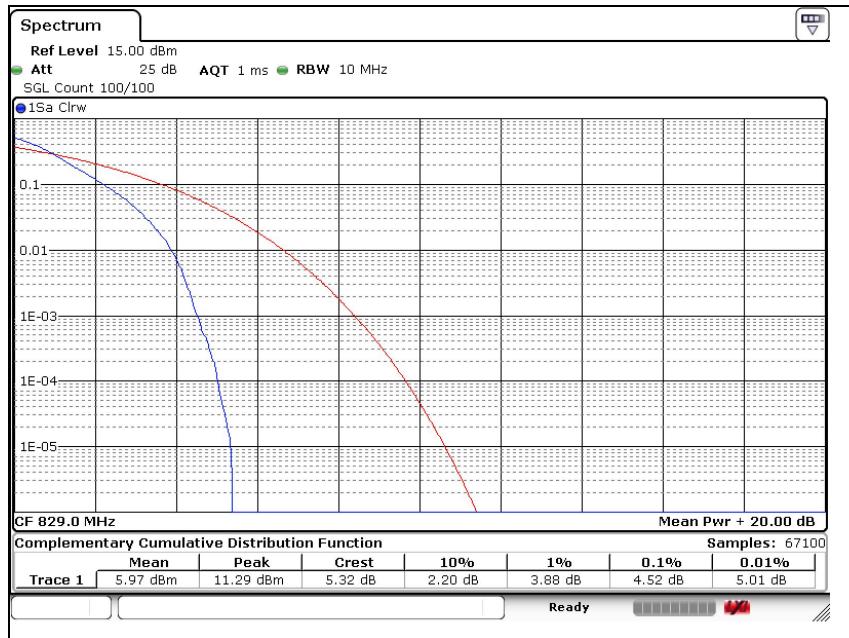
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## High Channel



## LTE band 26/5 (10 MHz – QPSK)

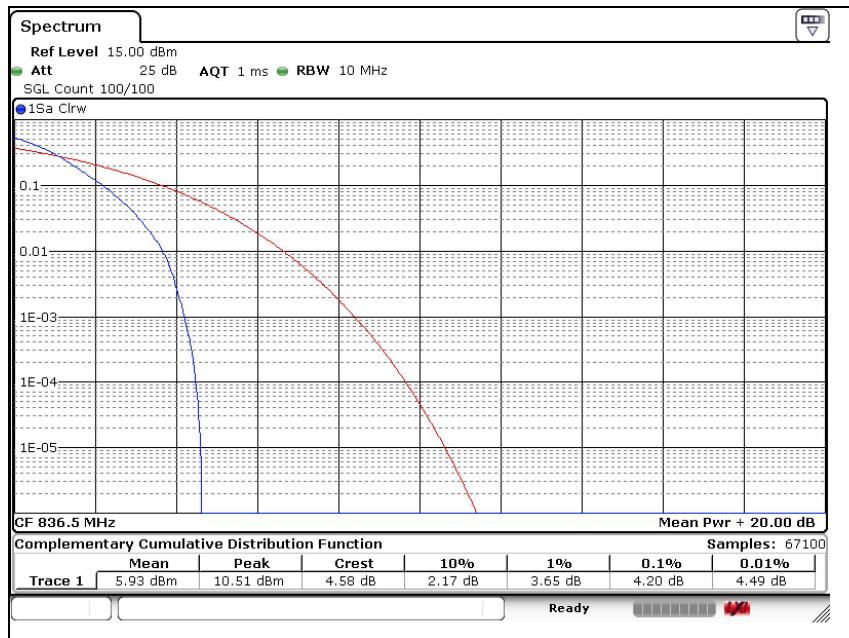
## Low Channel



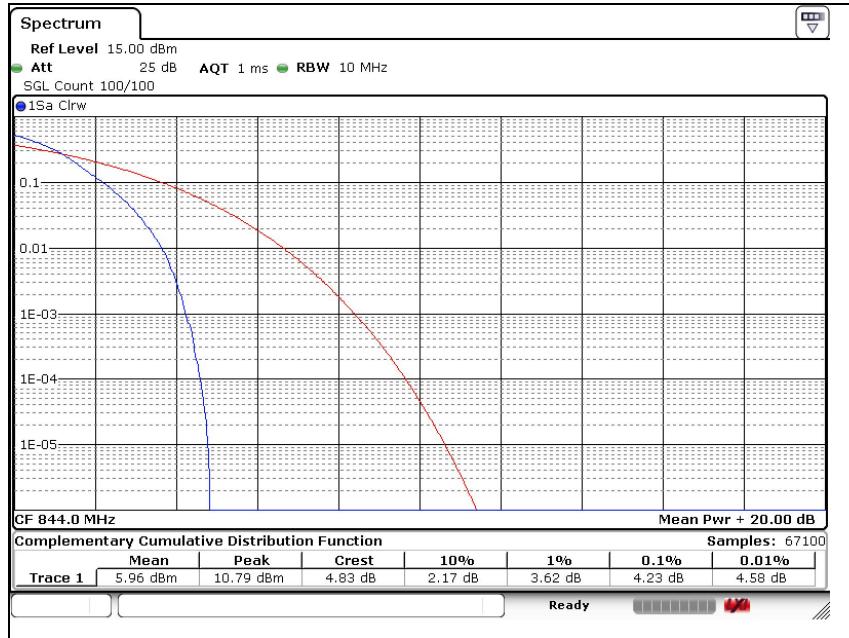
The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

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## Middle Channel



## High Channel



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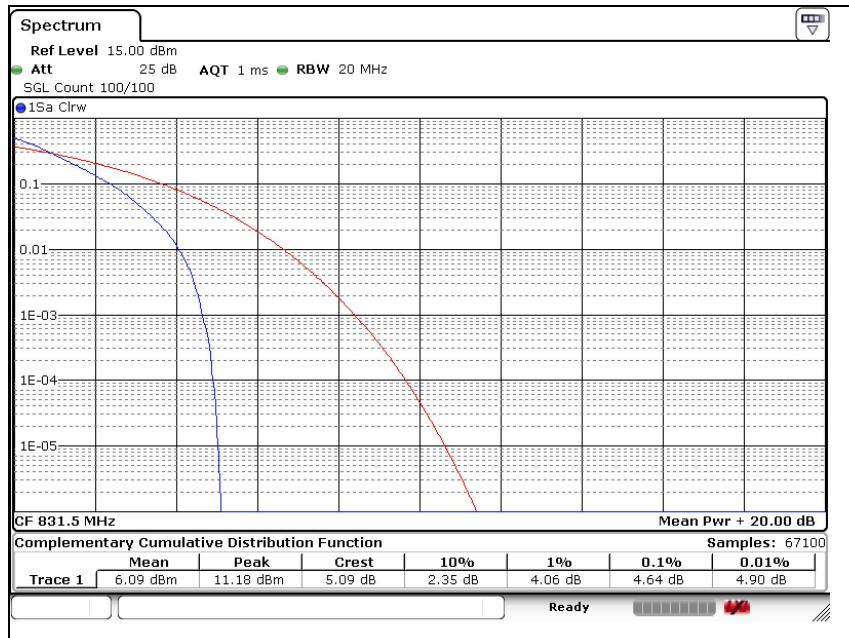
RTT5041-19(2019.04.24)(1)

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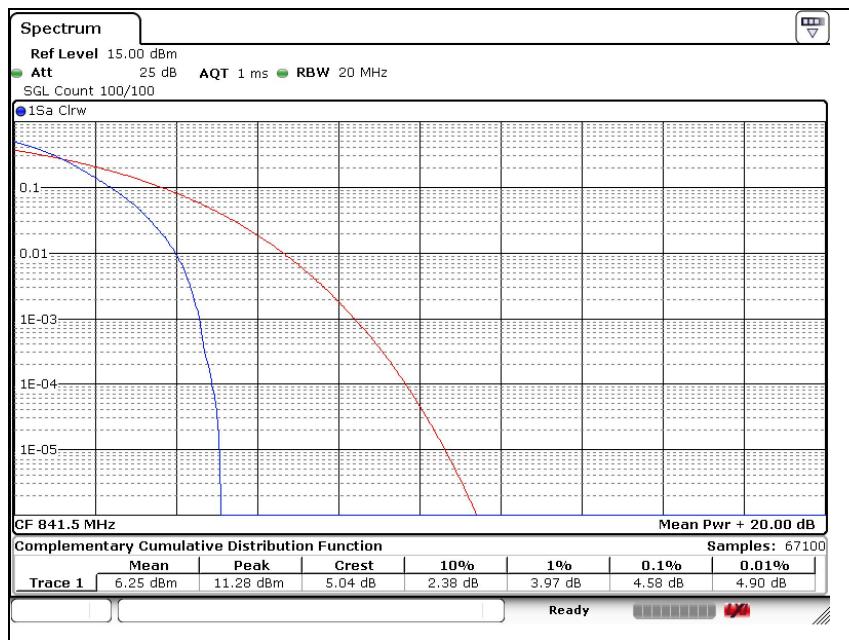
A4(210 mm x 297 mm)

**LTE band 26 (15 MHz – QPSK)**

Low Channel



High Channel

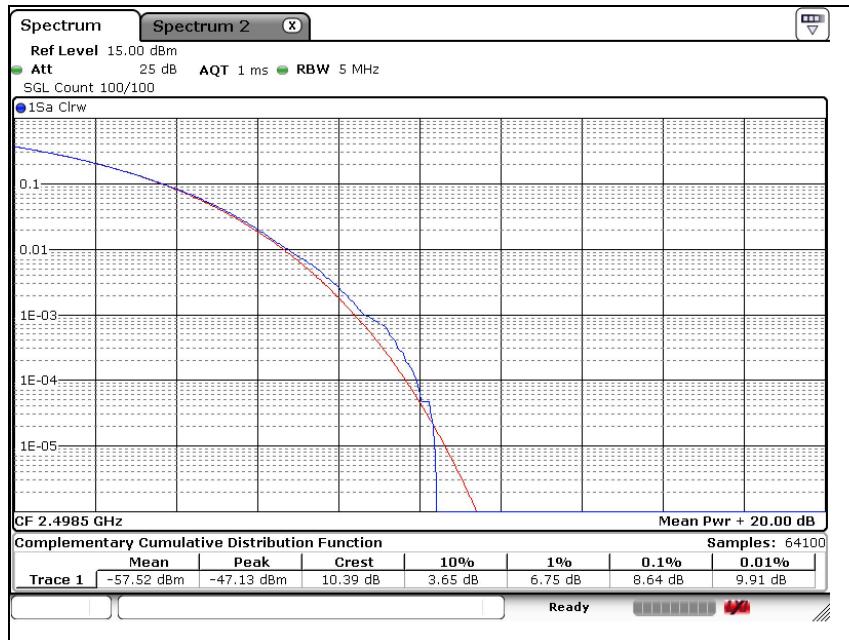


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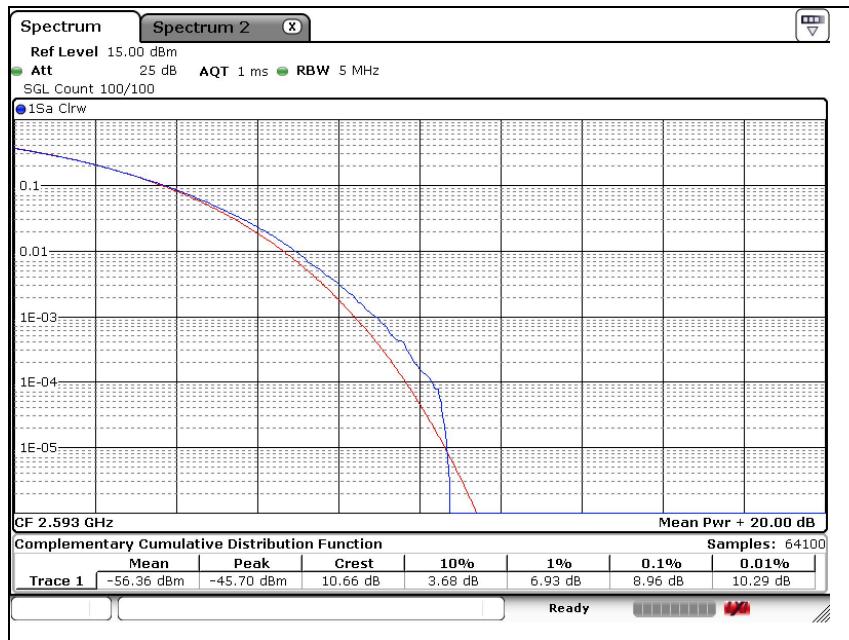
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**LTE band 41 (5 MHz – QPSK)**

## Low Channel



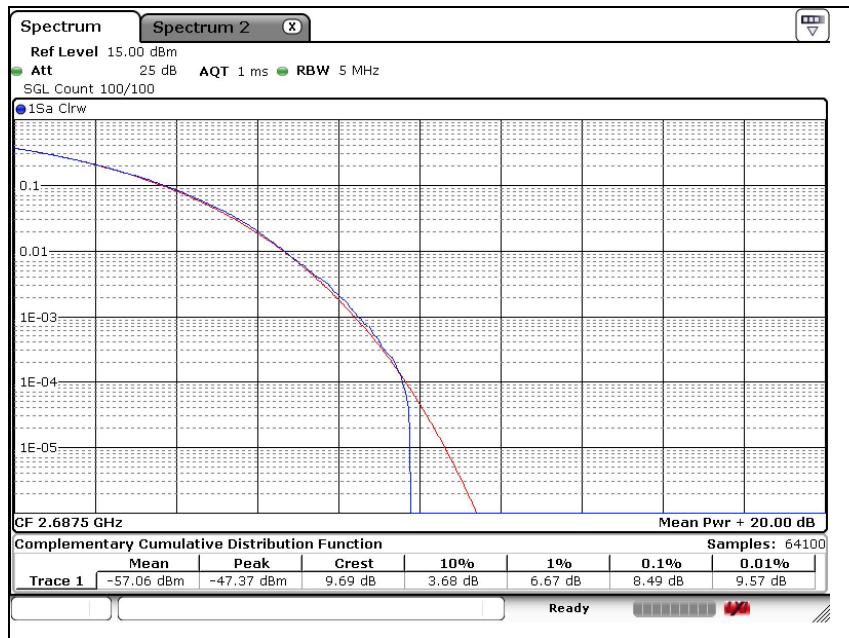
## Middle Channel



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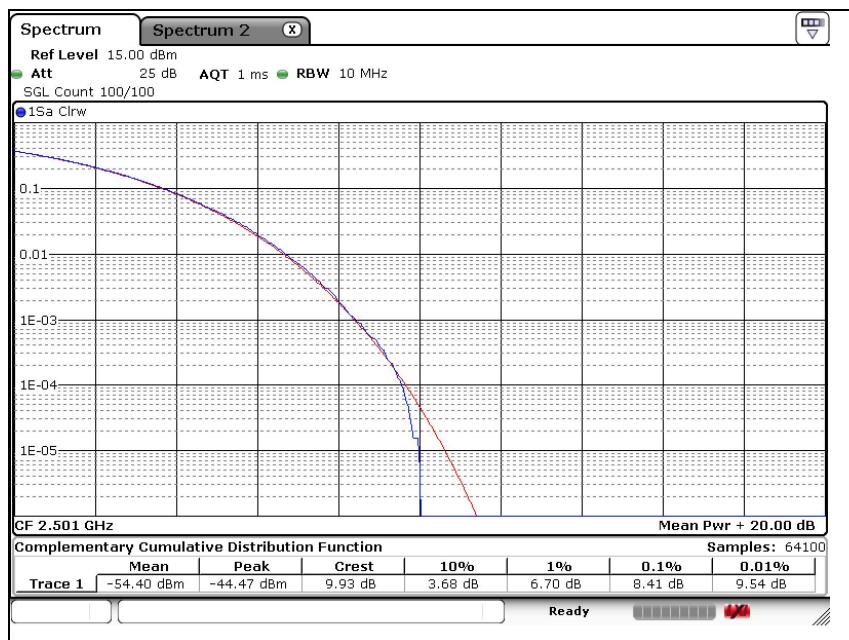
**SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807** <http://www.sgsgroup.kr>

## High Channel



## LTE band 41 (10 MHz – QPSK)

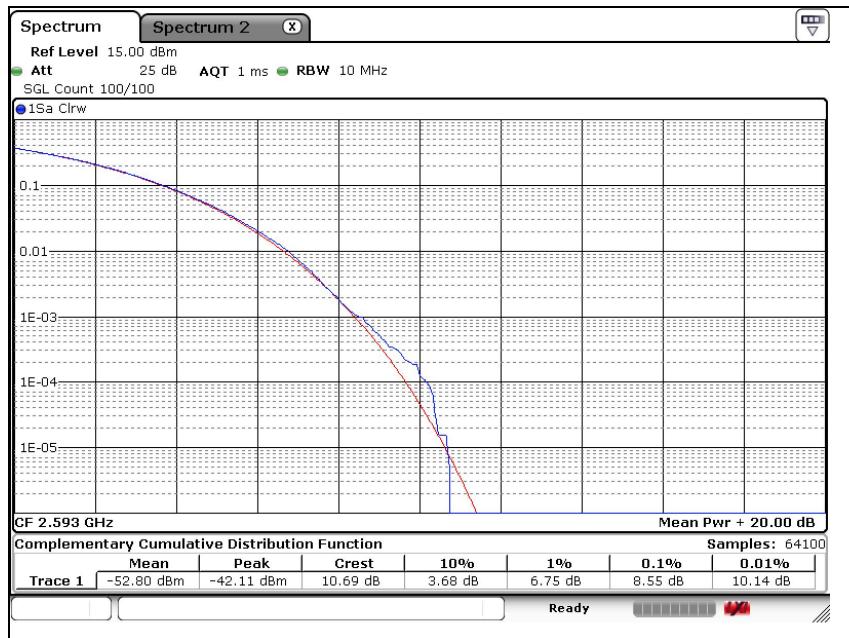
## Low Channel



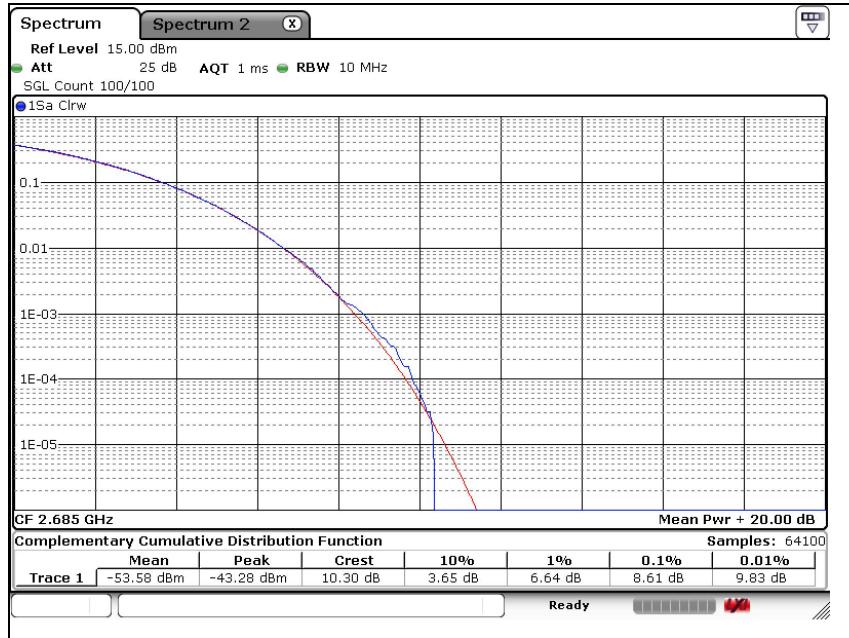
*The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.*

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## Middle Channel



## High Channel

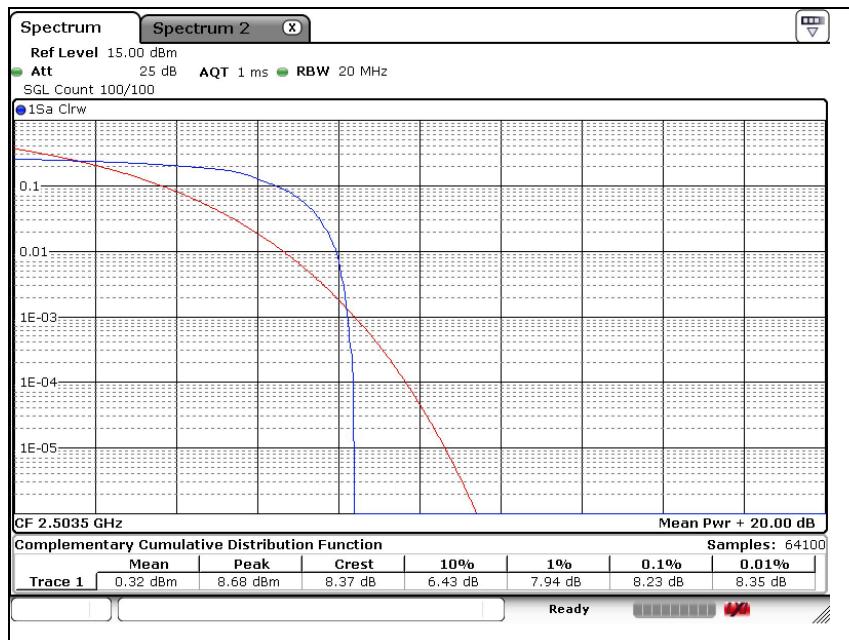


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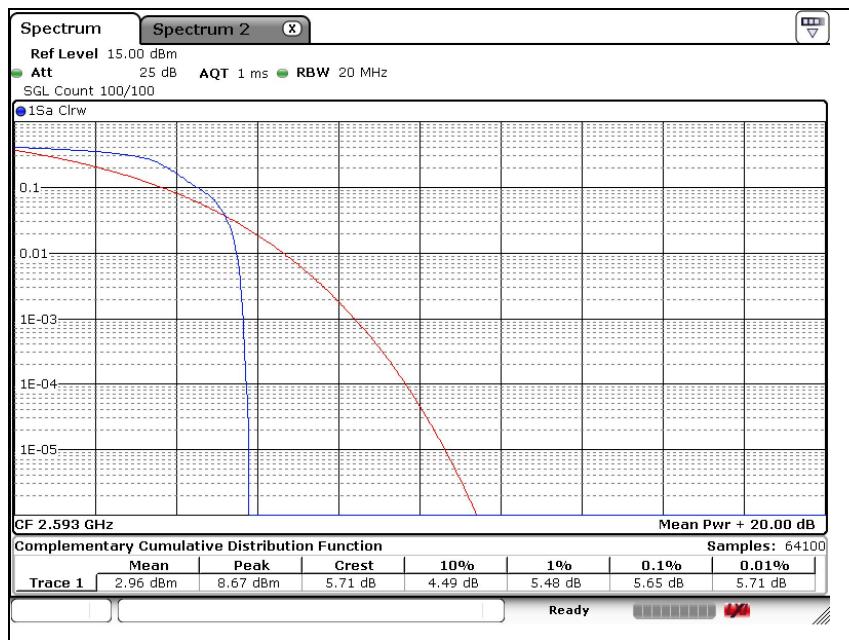
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**LTE band 41 (15 MHz – QPSK)**

## Low Channel



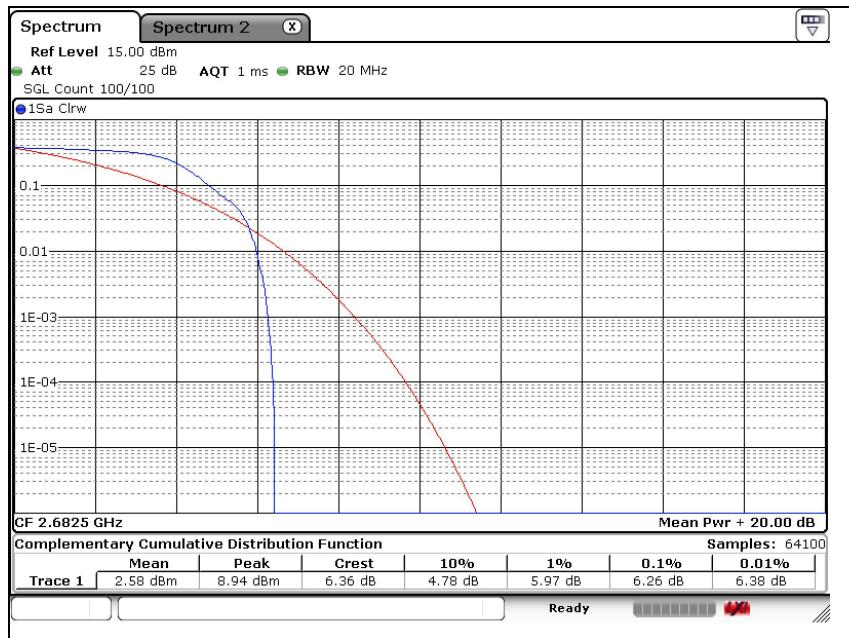
## Middle Channel



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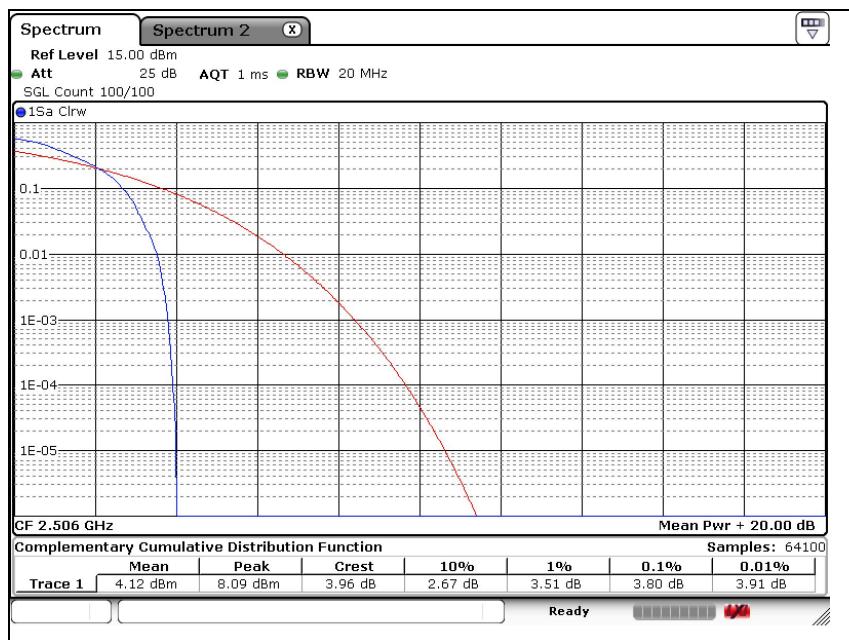
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## High Channel



## LTE band 41 (20 MHz – QPSK)

## Low Channel



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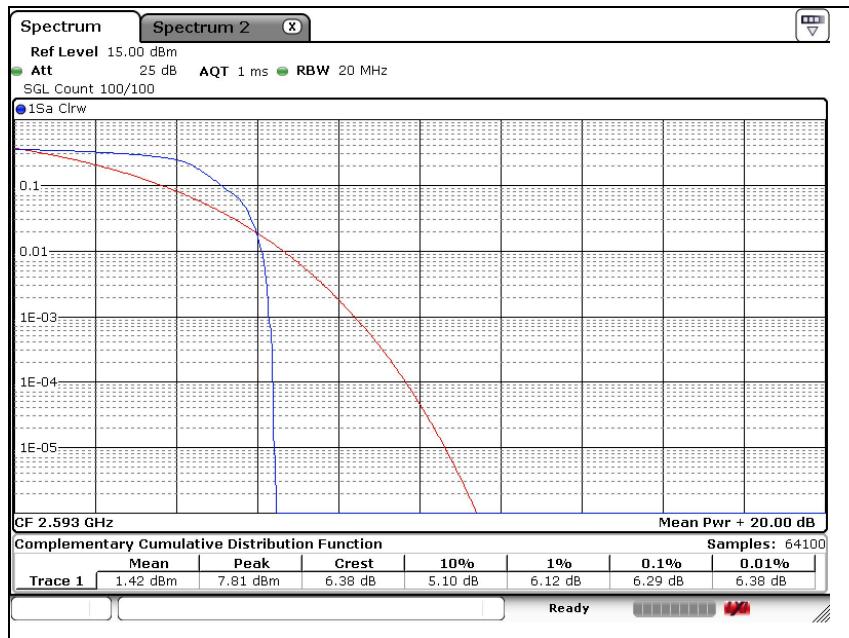
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RTT5041-19(2019.04.24)(1)

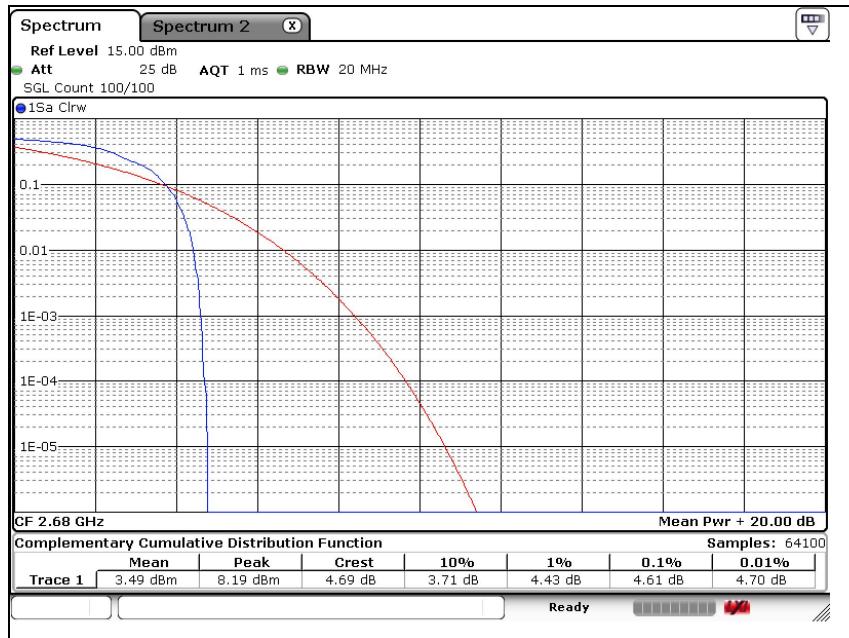
Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

## Middle Channel



## High Channel



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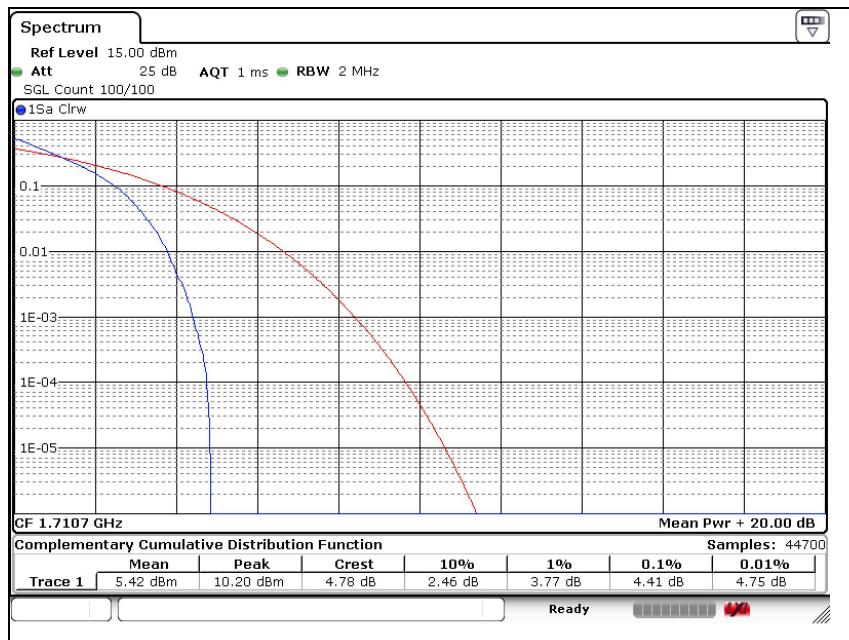
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

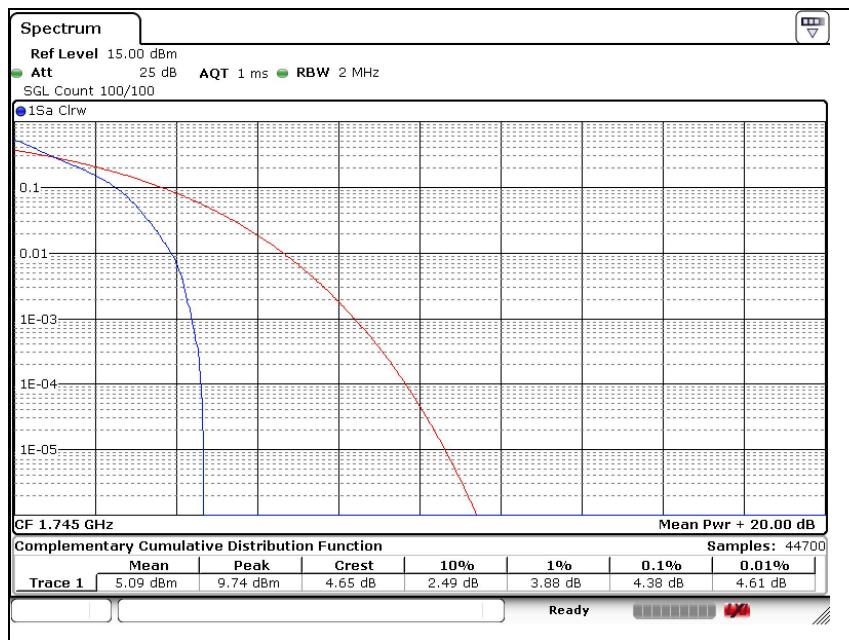
A4(210 mm x 297 mm)

**LTE band 66/4 (1.4 MHz – QPSK)**

## Low Channel



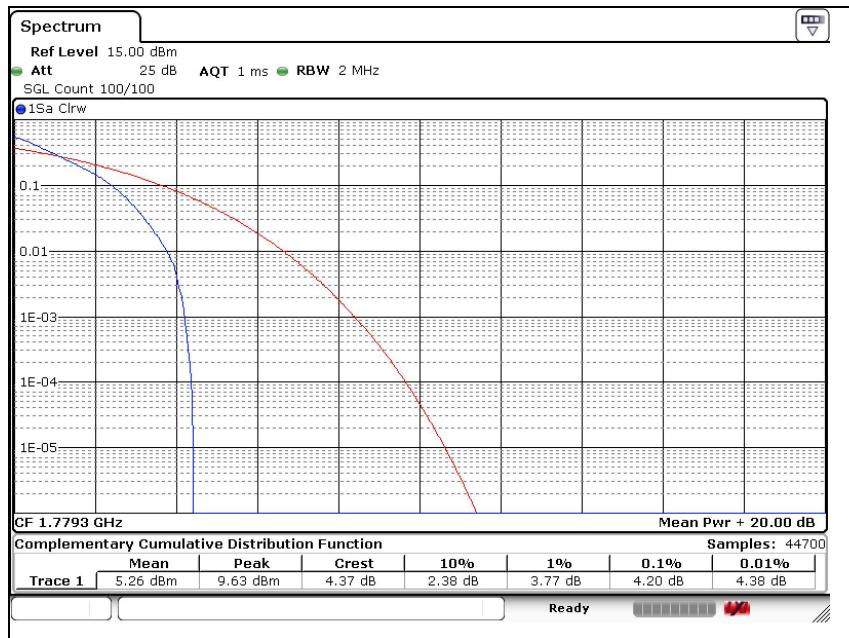
## Middle Channel



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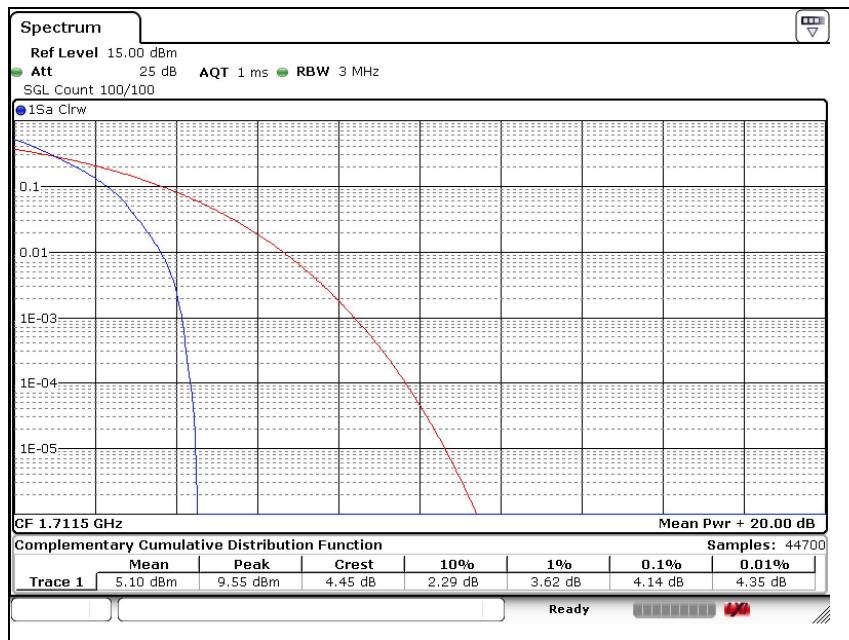
**SGS Korea Co., Ltd. (Gunpo Laboratory)** 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

## High Channel



## LTE band 66/4 (3 MHz – QPSK)

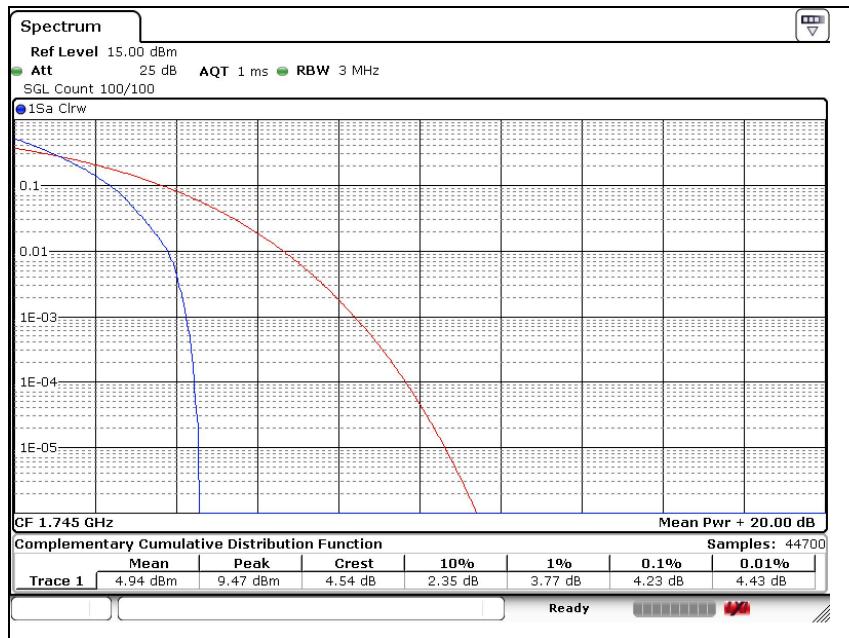
## Low Channel



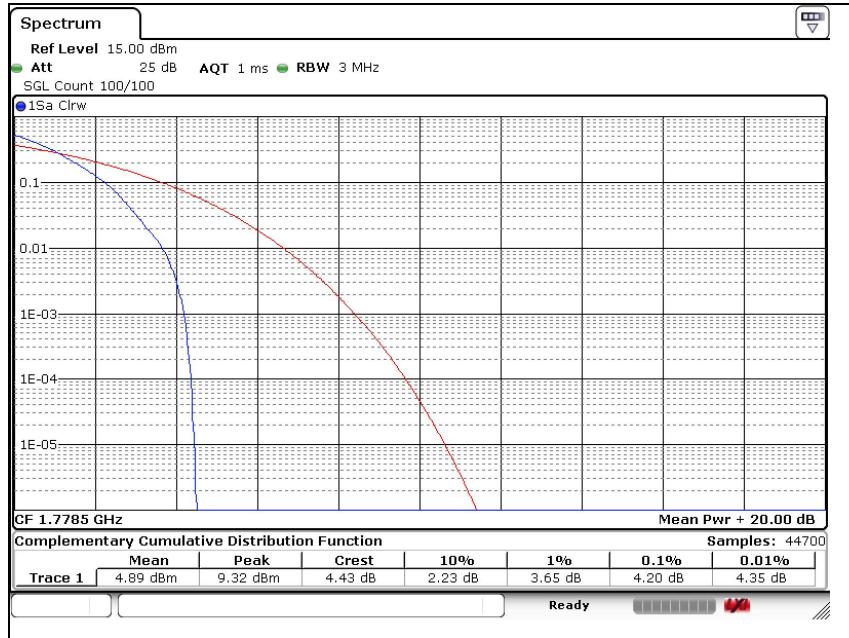
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## Middle Channel



## High Channel



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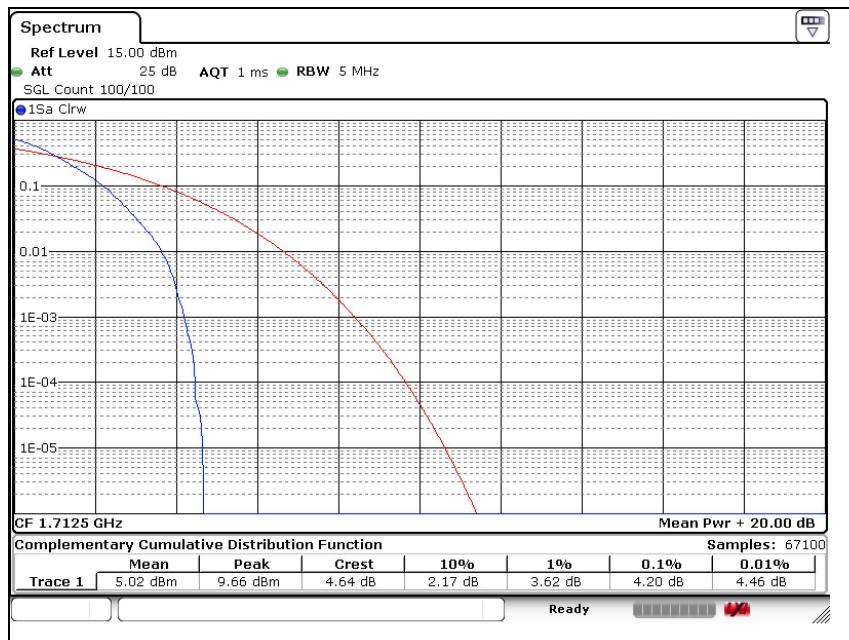
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

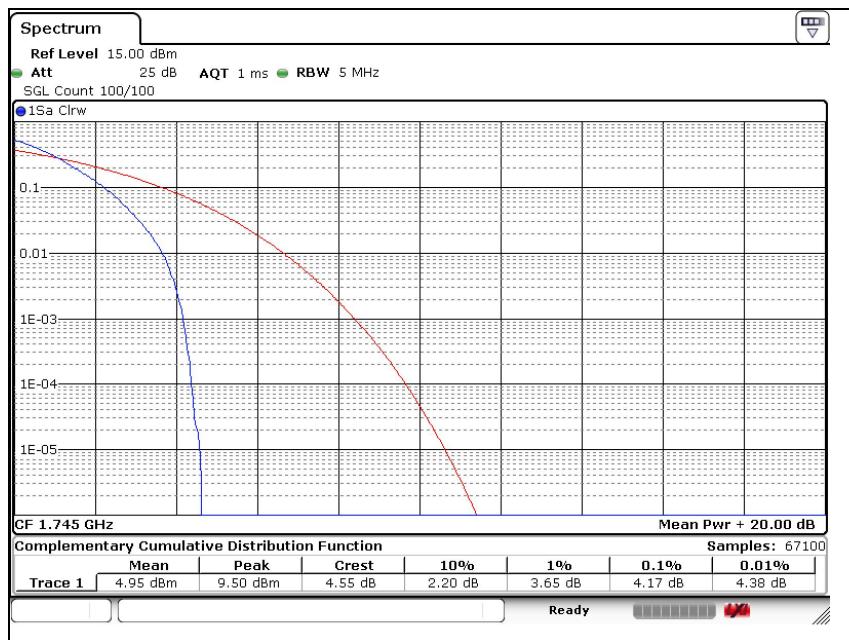
A4(210 mm x 297 mm)

**LTE band 66/4 (5 MHz – QPSK)**

## Low Channel



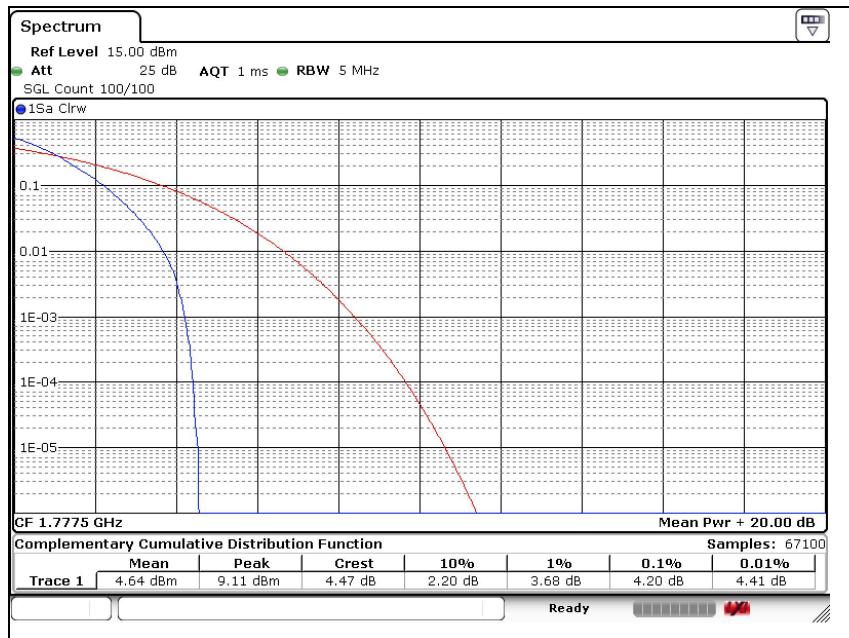
## Middle Channel



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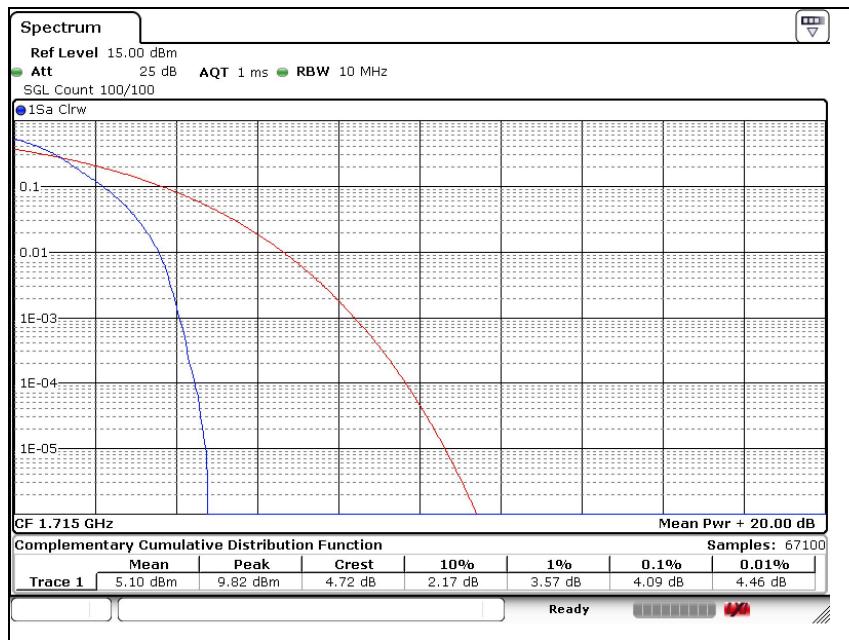
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## High Channel



## LTE band 66/4 (10 MHz – QPSK)

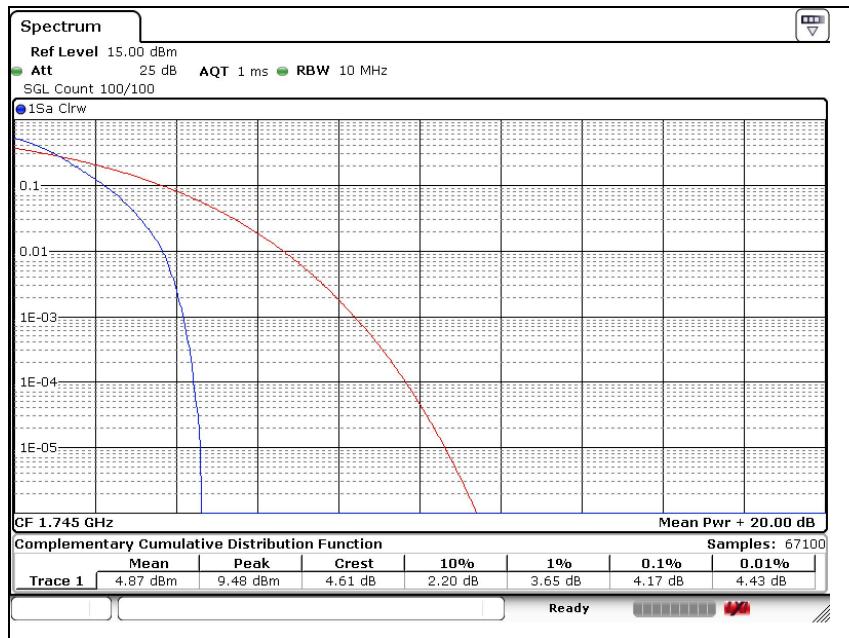
## Low Channel



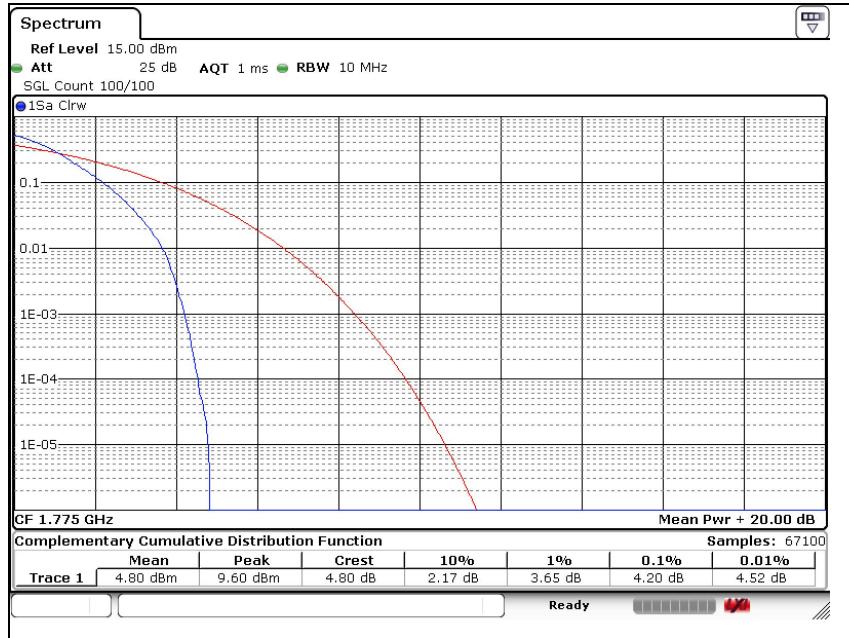
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## Middle Channel



## High Channel



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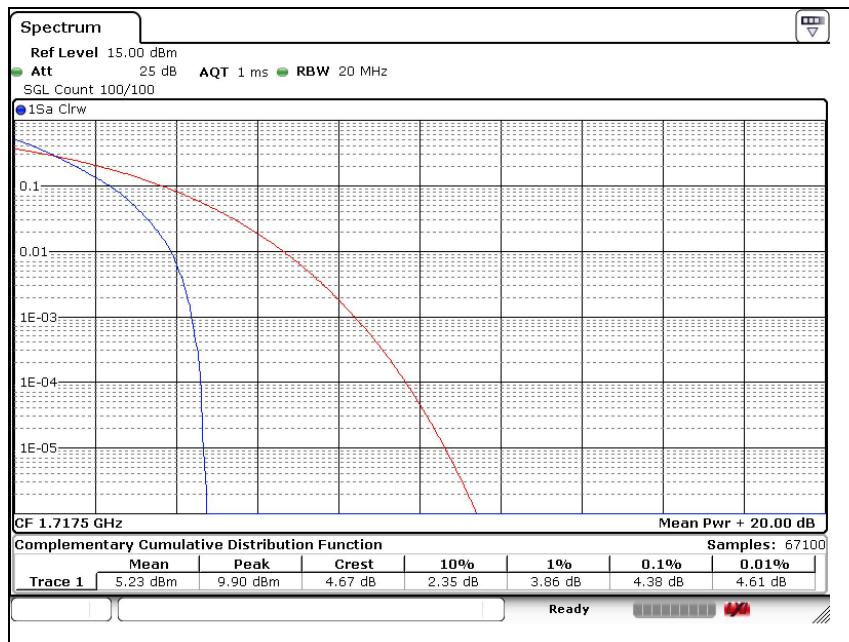
RTT5041-19(2019.04.24)(1)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

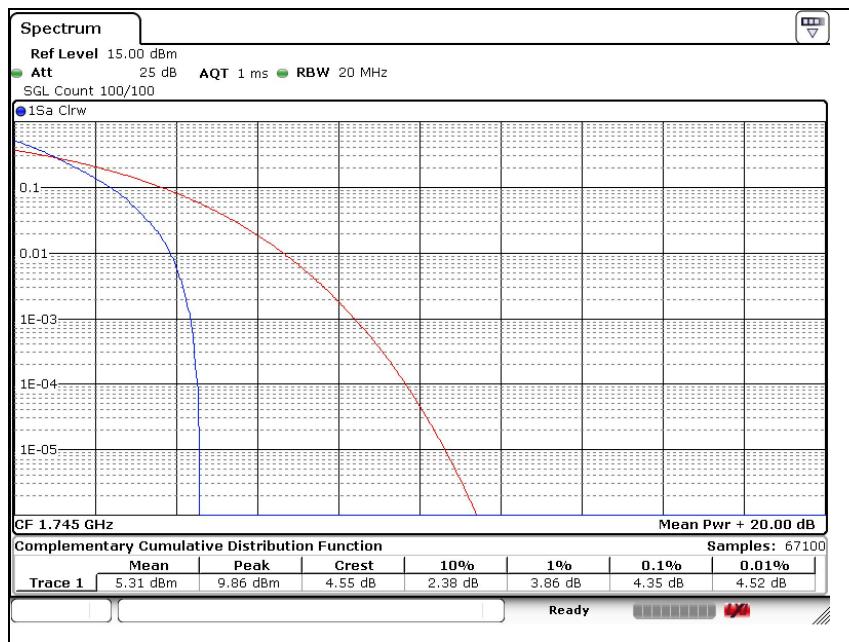
A4(210 mm x 297 mm)

**LTE band 66/4 (15 MHz – QPSK)**

## Low Channel



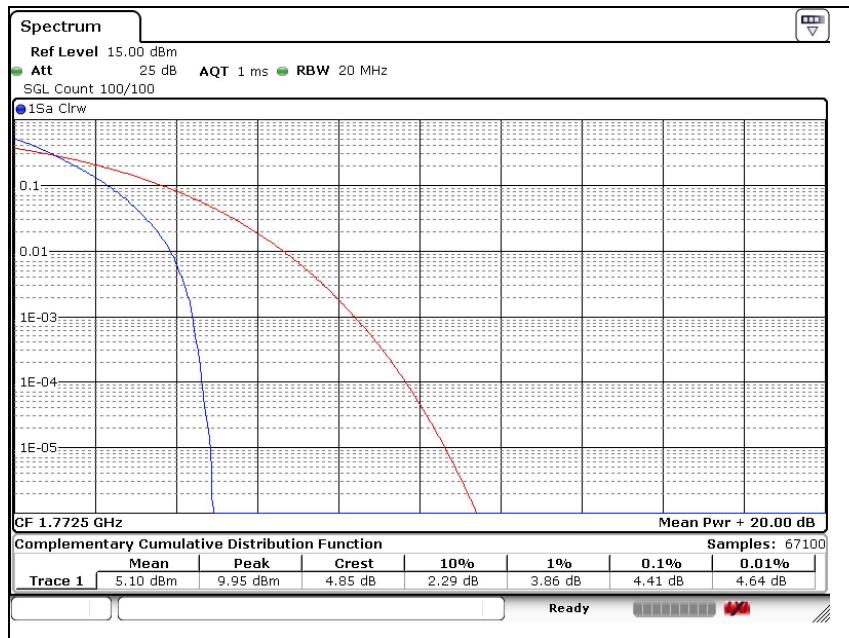
## Middle Channel



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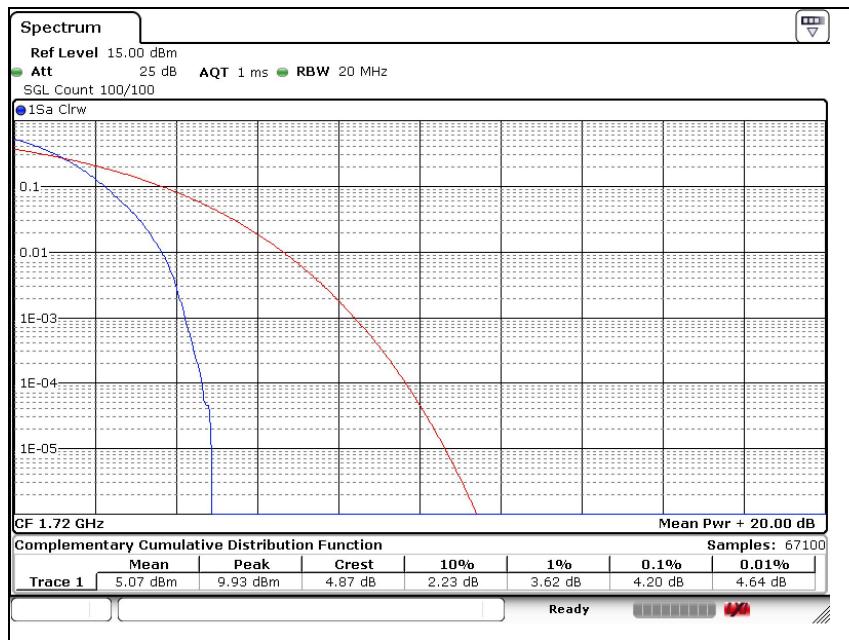
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## High Channel



## LTE band 66/4 (20 MHz – QPSK)

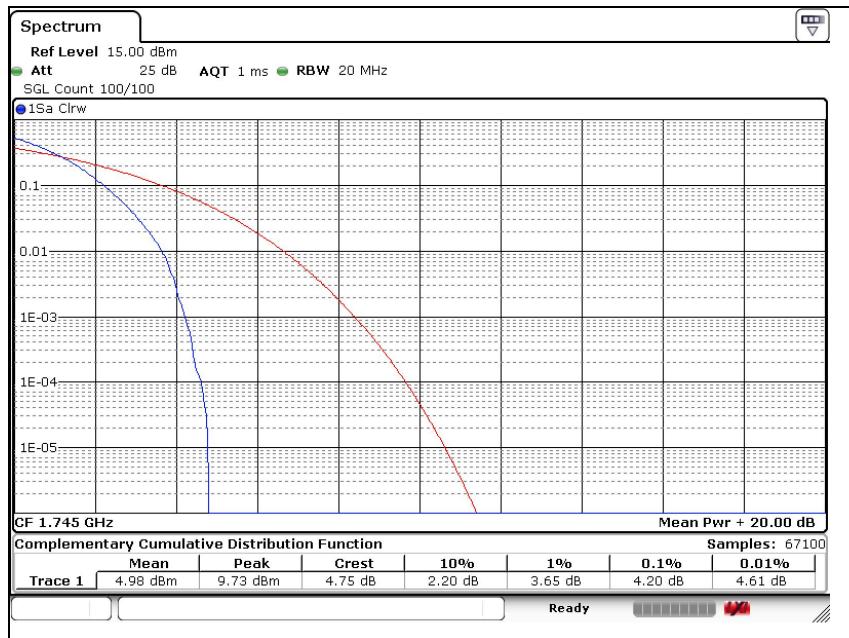
## Low Channel



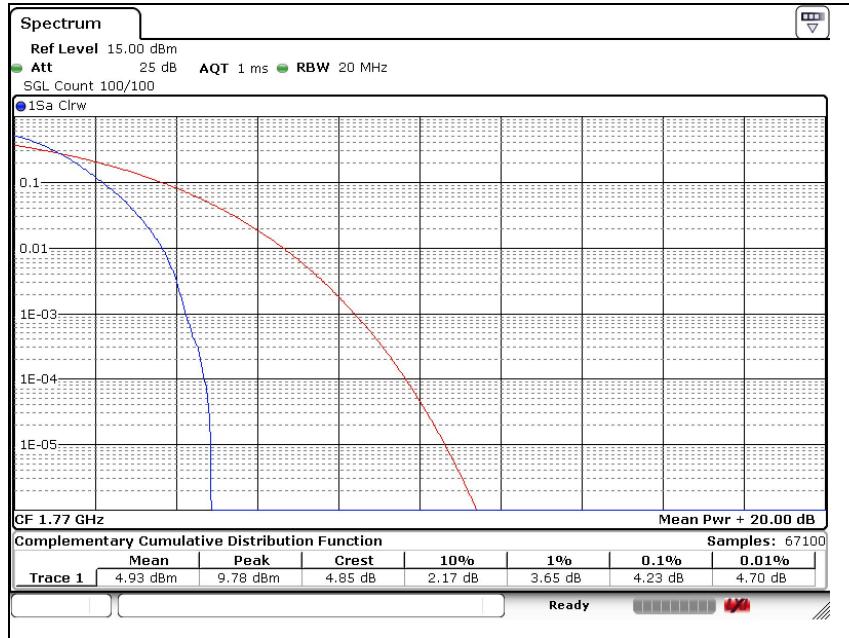
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## Middle Channel



## High Channel



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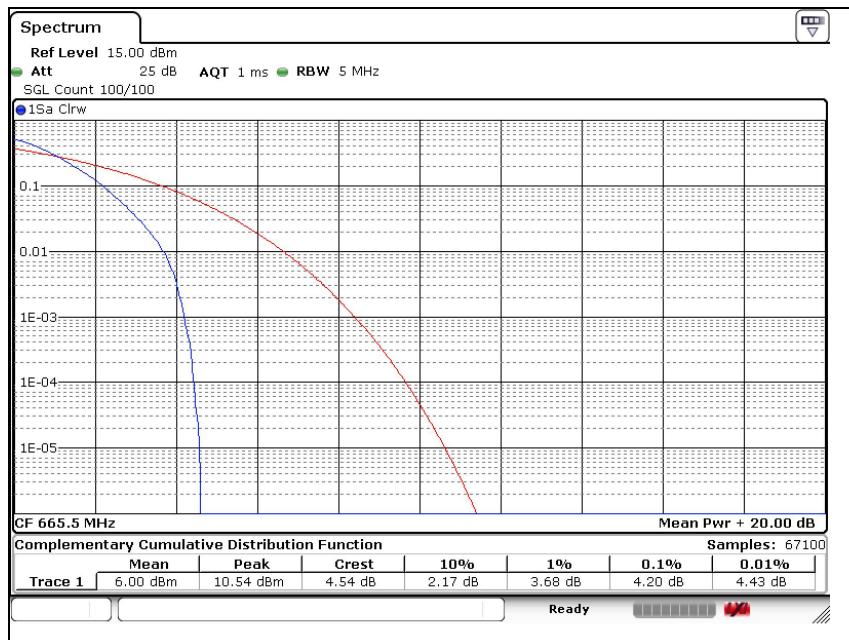
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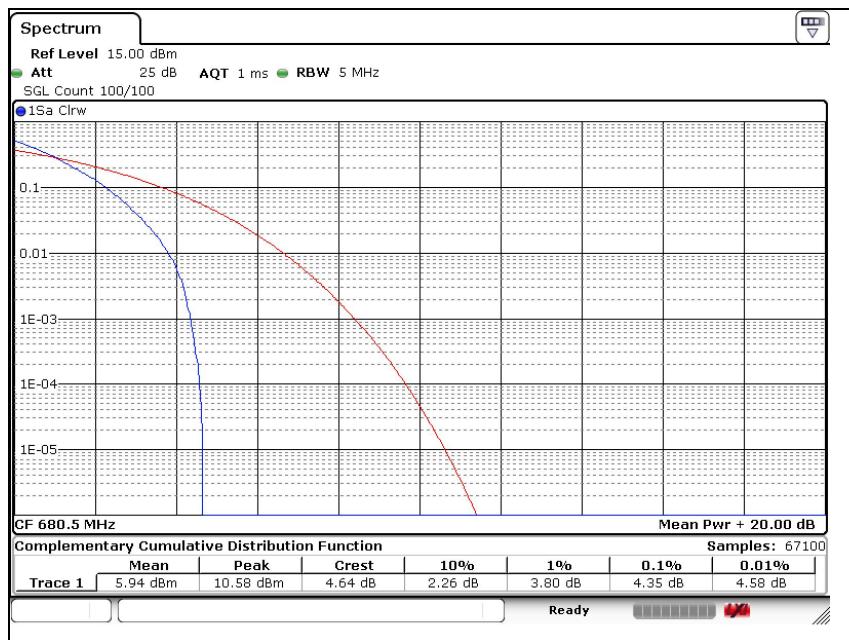
A4(210 mm x 297 mm)

**LTE band 71 (5 MHz – QPSK)**

## Low Channel



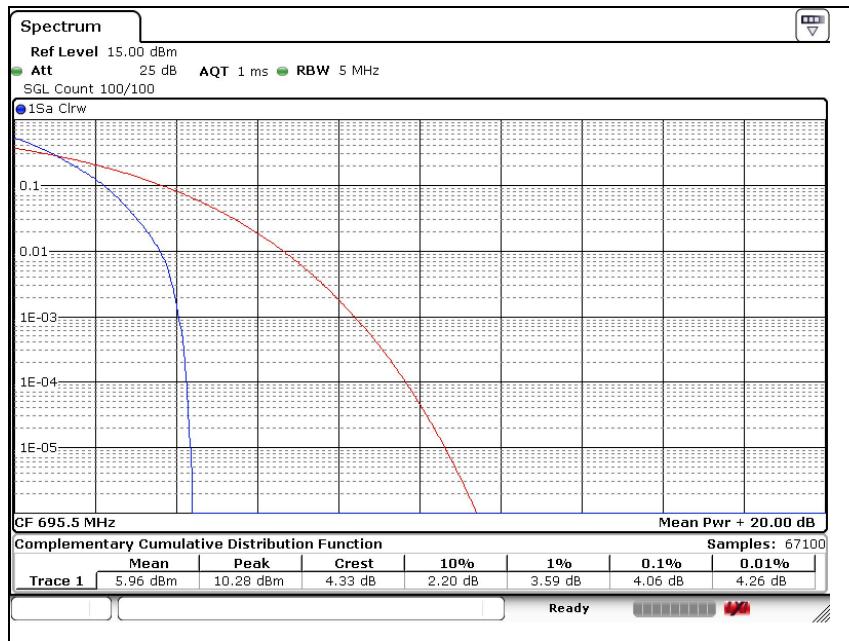
## Middle Channel



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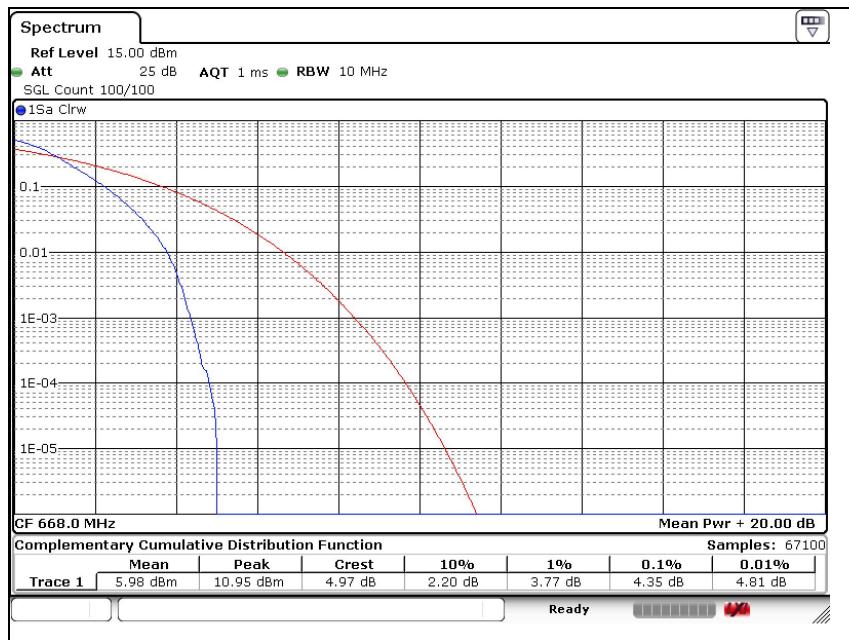
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## High Channel



## LTE band 71 (10 MHz – QPSK)

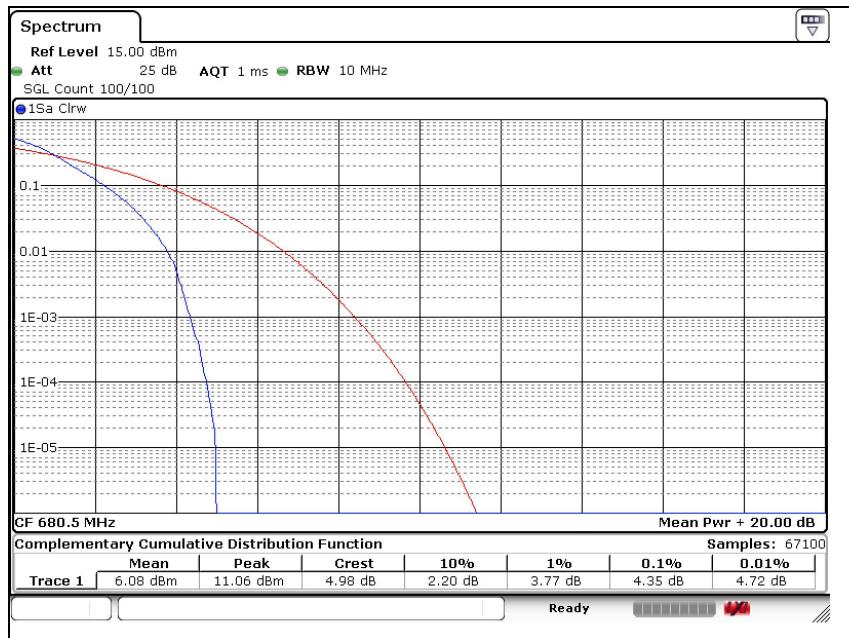
## Low Channel



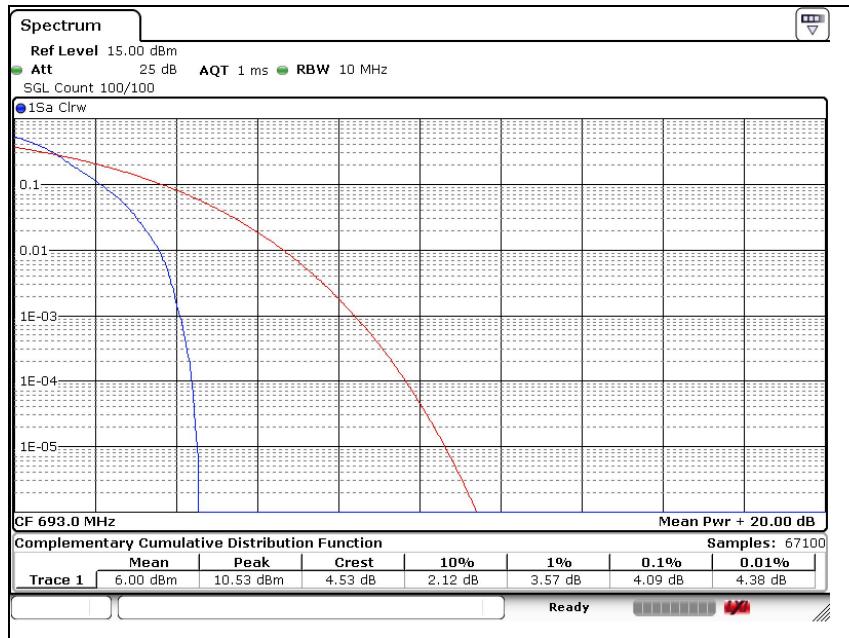
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## Middle Channel



## High Channel



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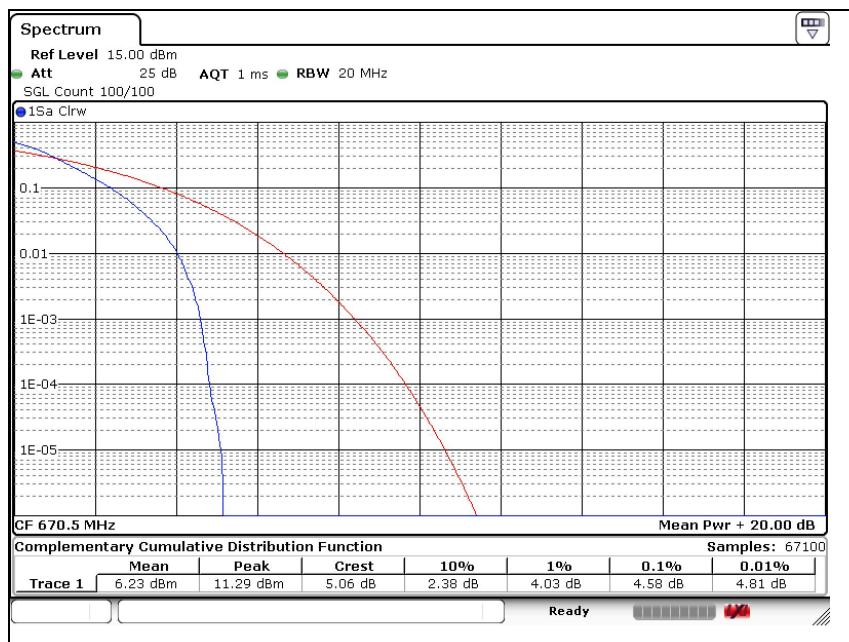
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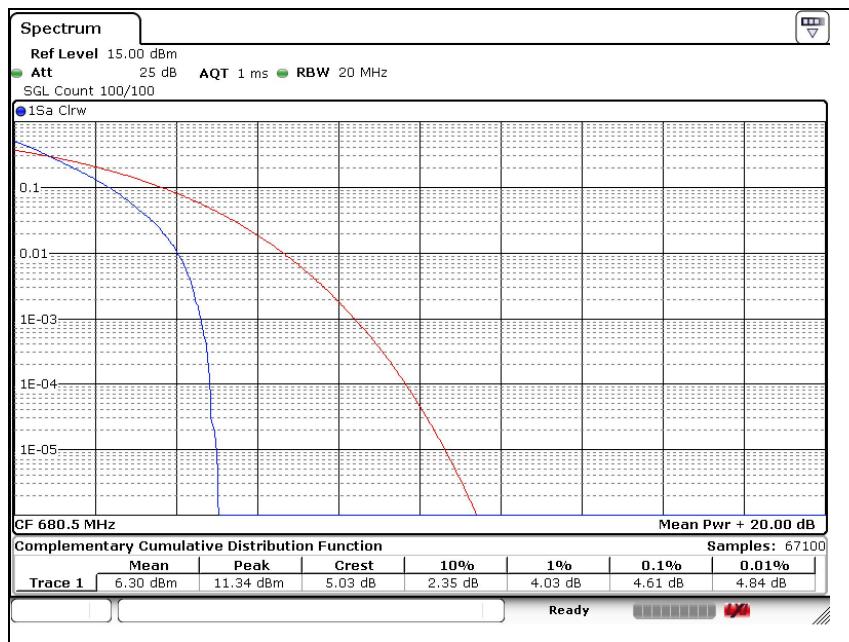
A4(210 mm x 297 mm)

**LTE band 71 (15 MHz – QPSK)**

## Low Channel



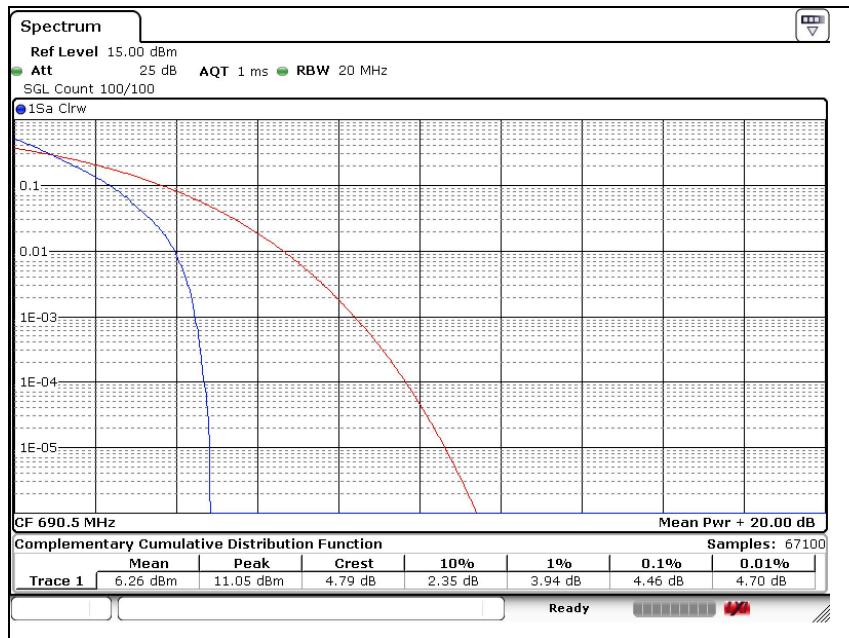
## Middle Channel



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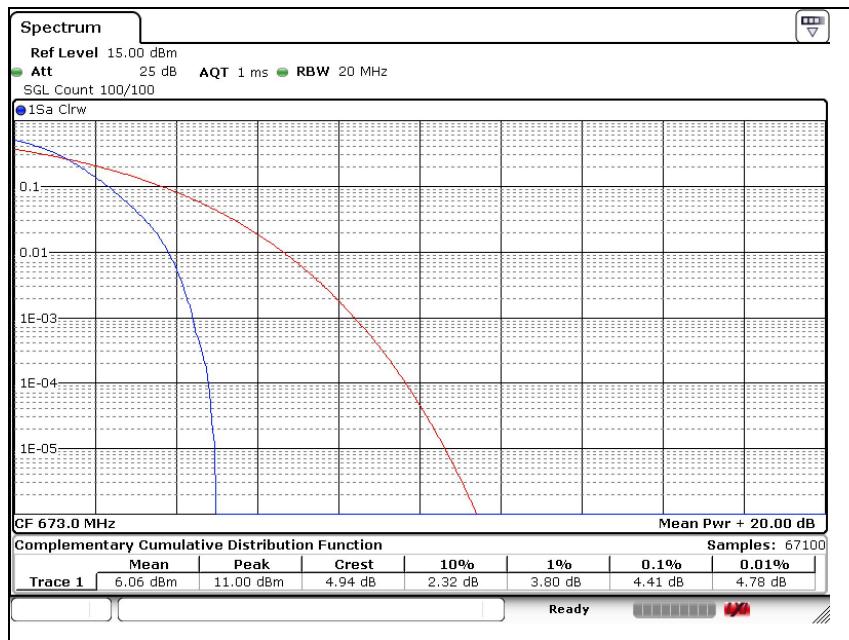
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## High Channel



## LTE band 71 (20 MHz – QPSK)

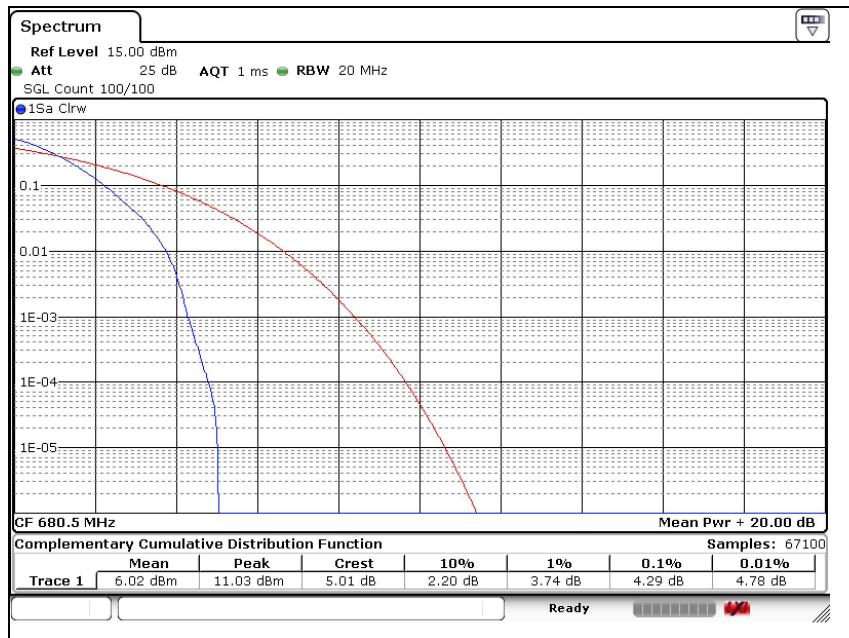
## Low Channel



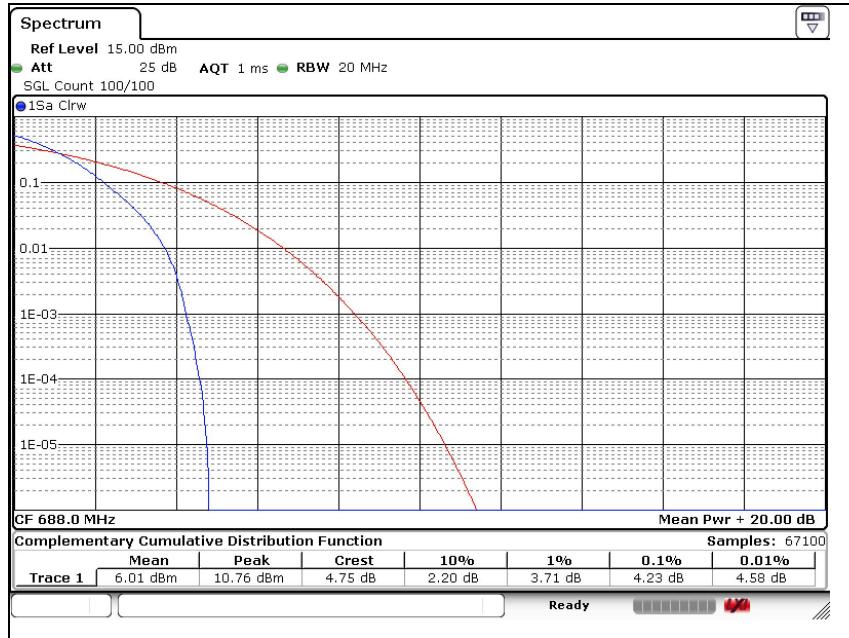
The results of this test report are effective only to the items tested. The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received. This test report cannot be reproduced, except in full, without prior written permission of the Company. This test report does not assure KOLAS accreditation.

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## Middle Channel



## High Channel



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A4(210 mm x 297 mm)

## 5. Spurious Emissions at Antenna Terminal

### 5.1. 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(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 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, 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  $43 + 10 \log_{10}(P)$  dB.
- §27.53(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 than  $43 + 10 \log_{10}(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log_{10}(P)$  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.

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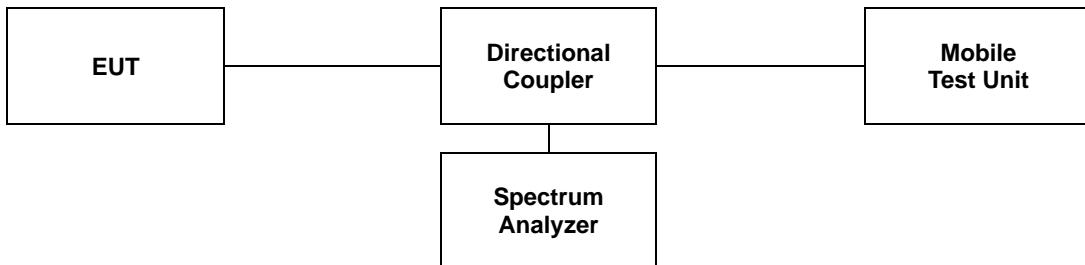
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A4(210 mm x 297 mm)

## 5.2. Test Procedure

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

1. Start frequency was set to 9 kHz 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 kHz to 27 GHz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as correction factor.



**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 points, 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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### 5.3. Test Results

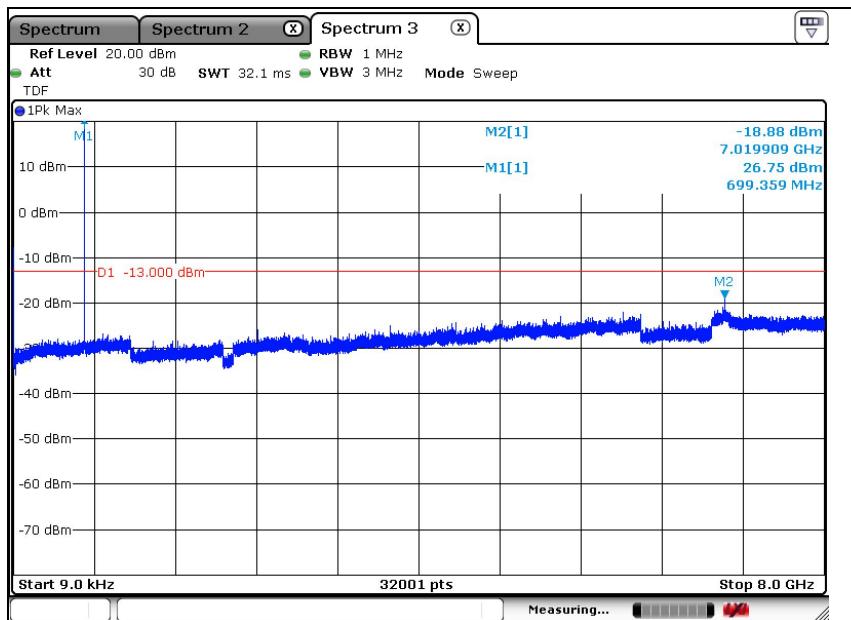
Ambient temperature : (23  $\pm$  1) °C

Relative humidity : 47 % R.H.

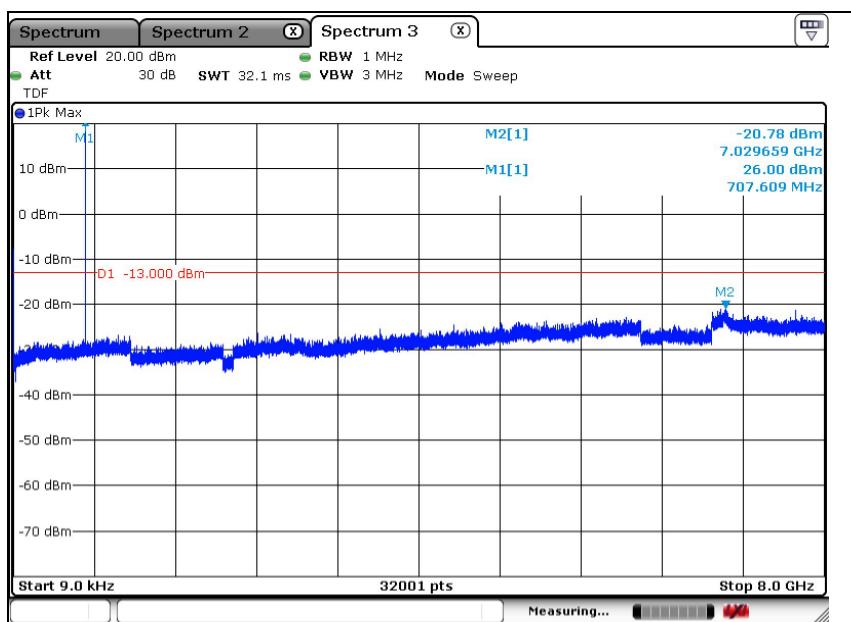
#### - Test plots

##### LTE band 12 (1.4 MHz – QPSK)

Low Channel



Middle Channel



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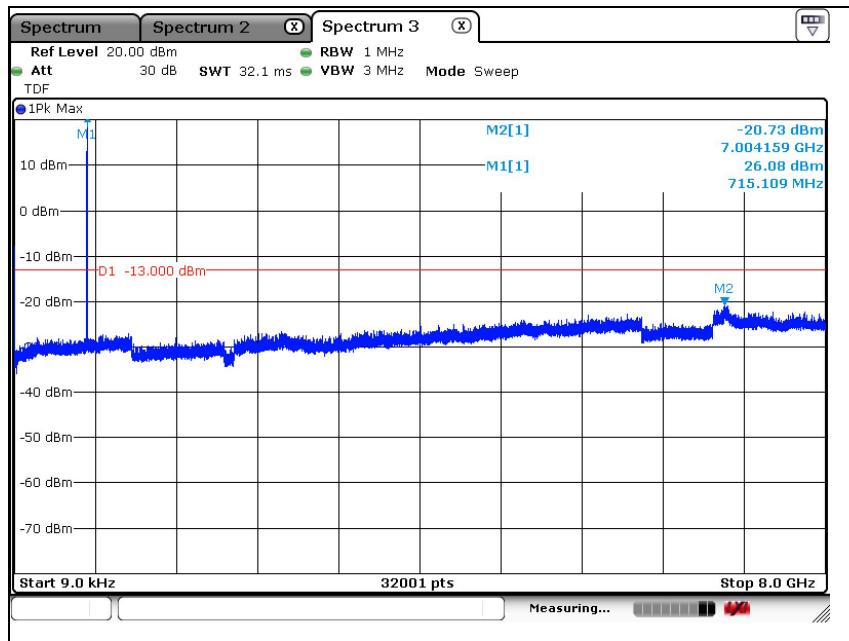
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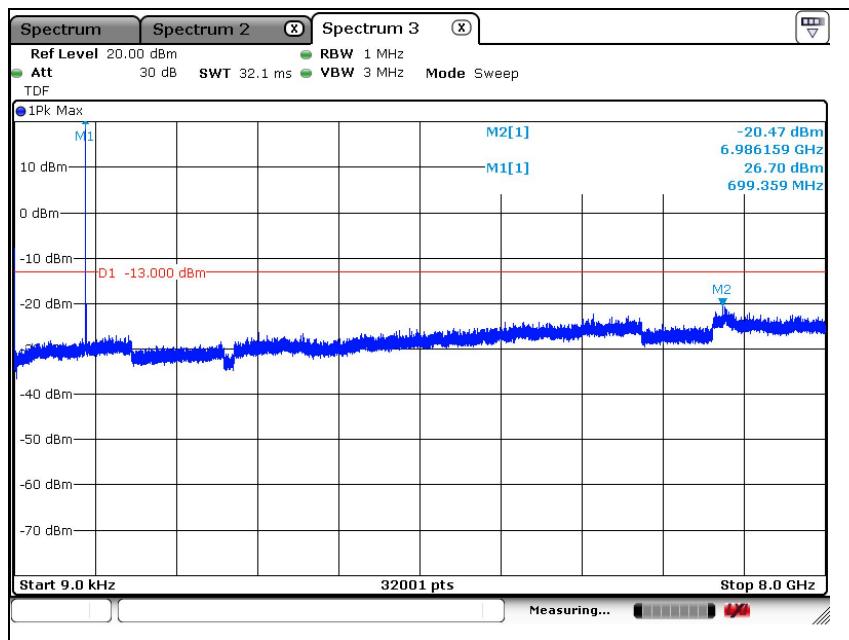
A4(210 mm x 297 mm)

## High Channel



## LTE band 12 (3 MHz – QPSK)

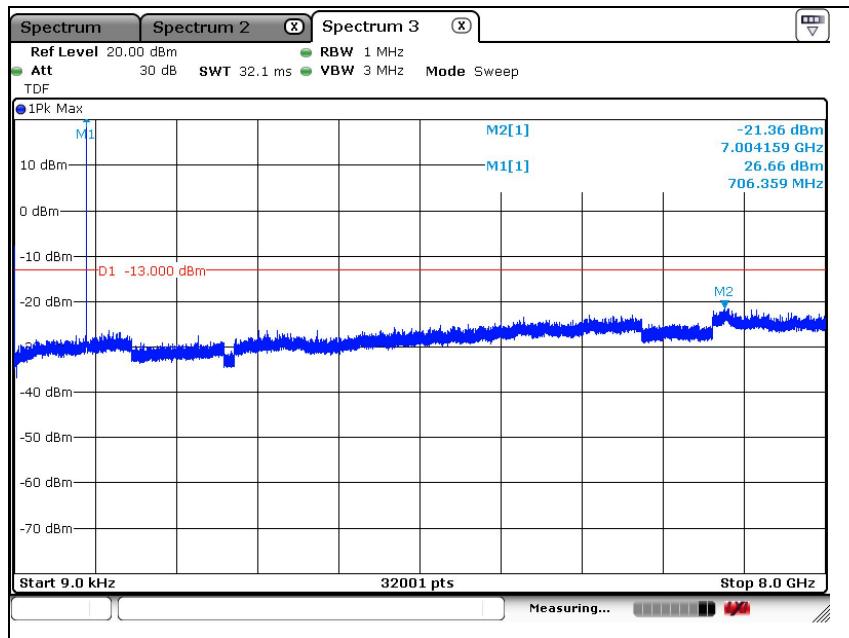
## Low Channel



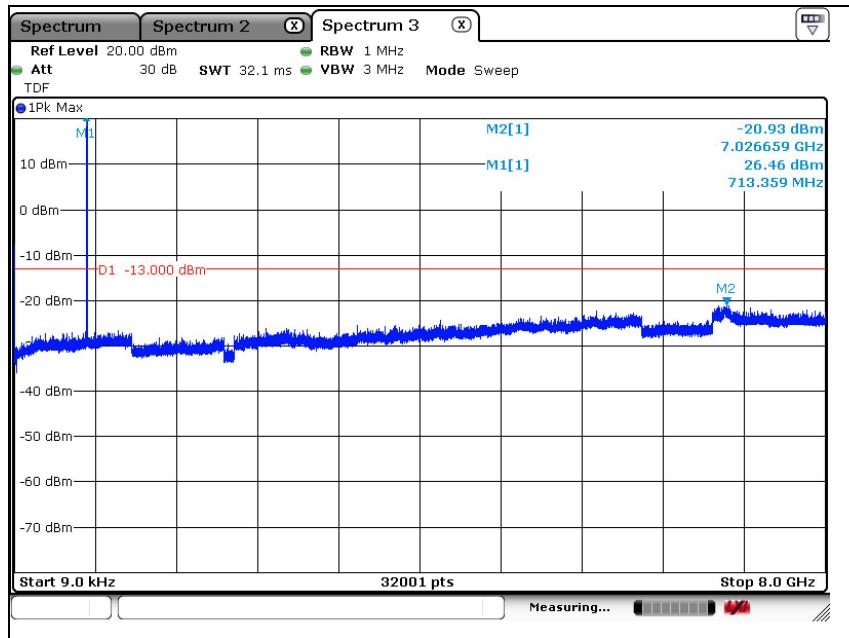
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## Middle Channel



## High Channel



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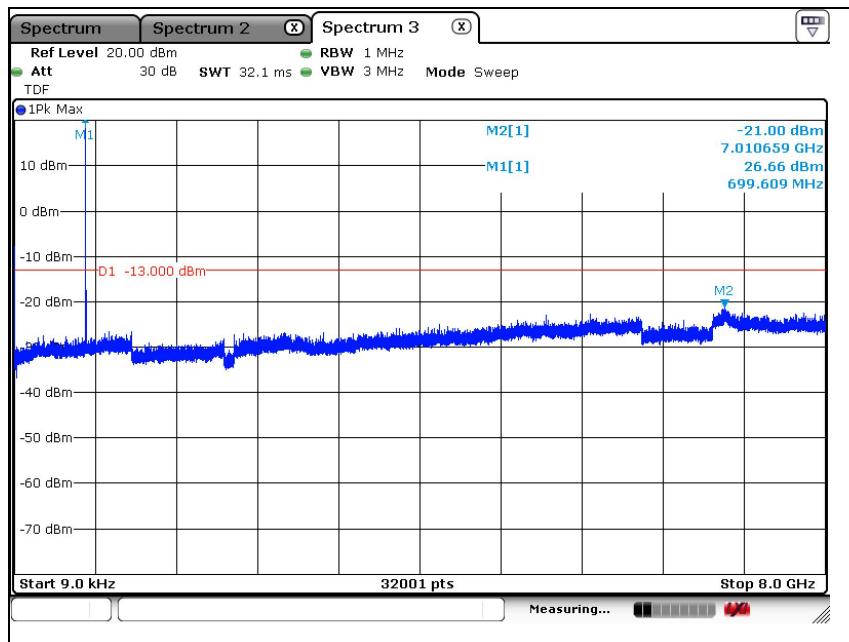
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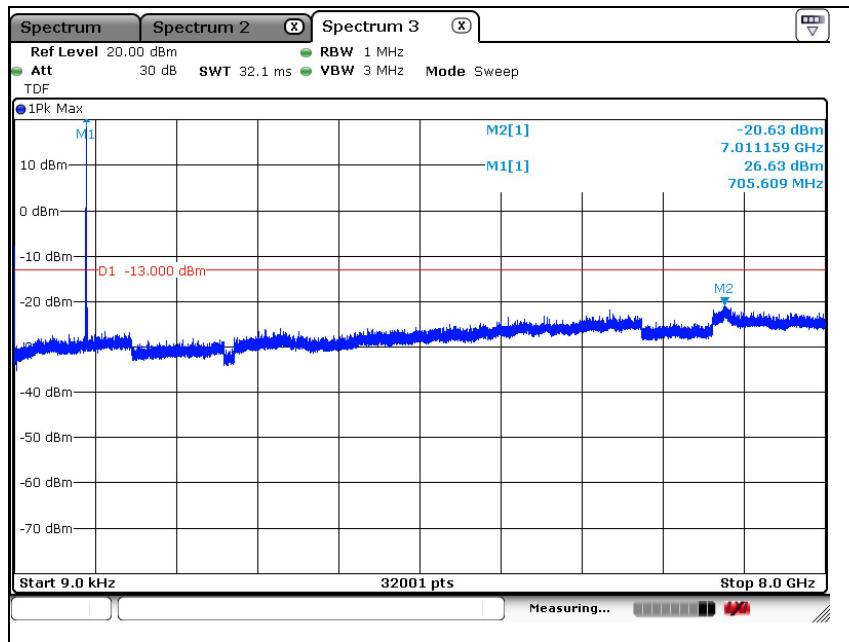
A4(210 mm x 297 mm)

**LTE band 12 (5 MHz – QPSK)**

## Low Channel



## Middle Channel



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A4(210 mm x 297 mm)