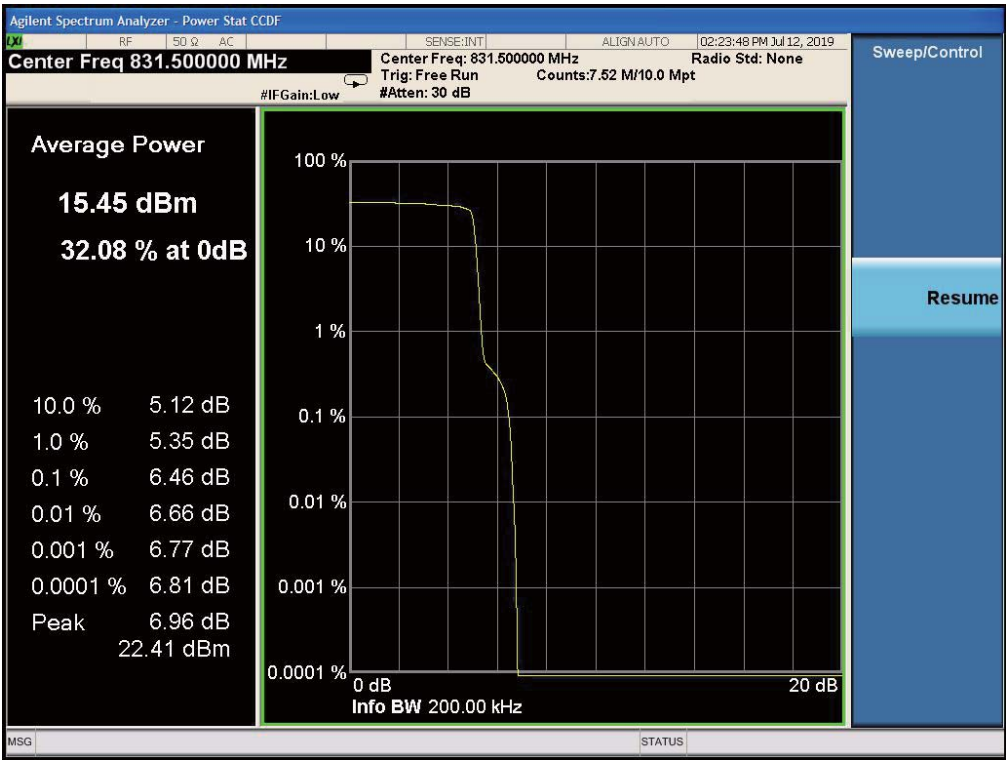
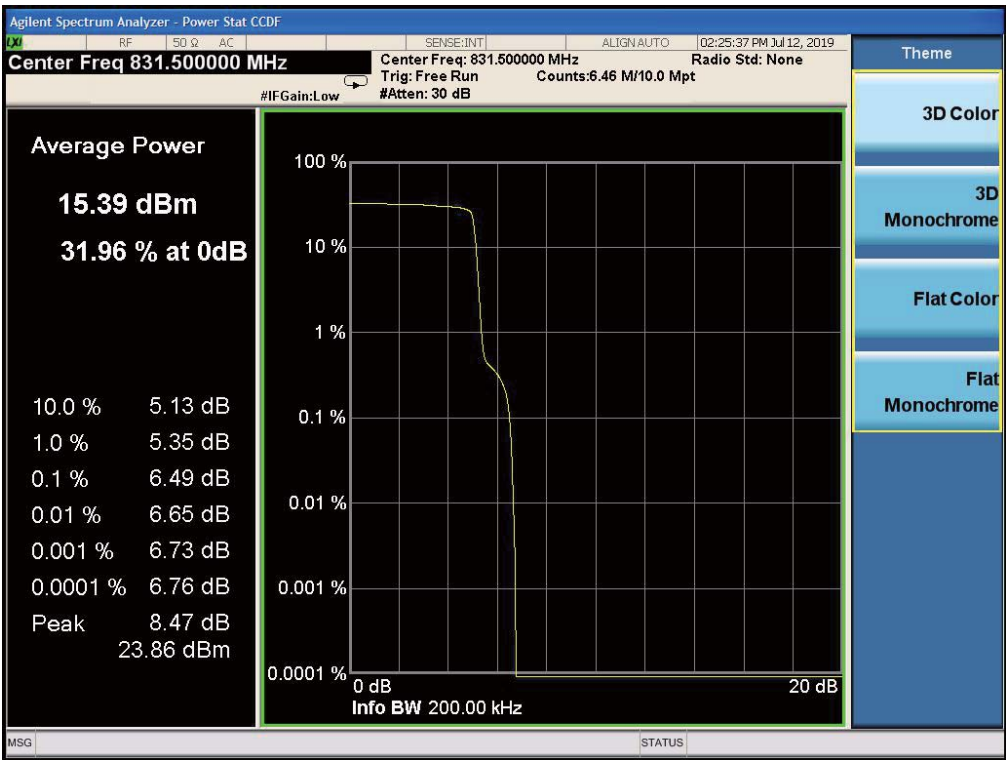


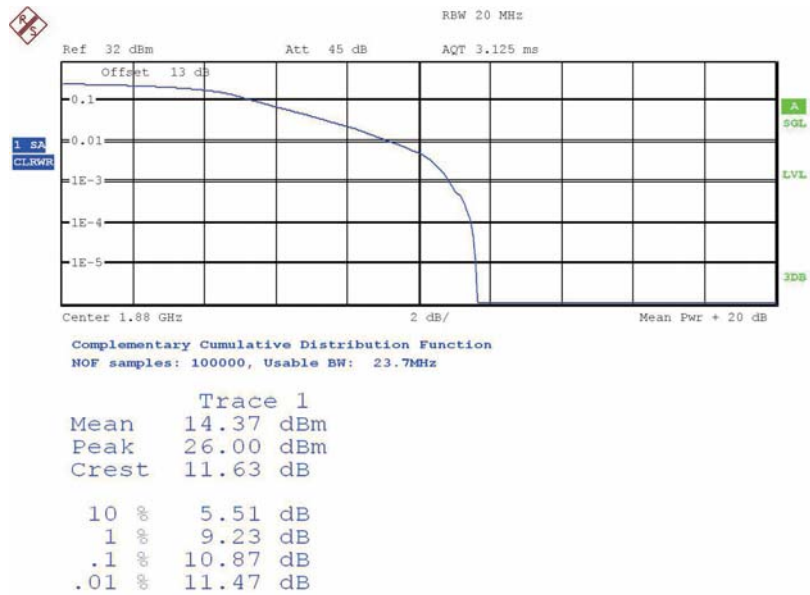


Band26-CH26865-831.5MHz-QPSK



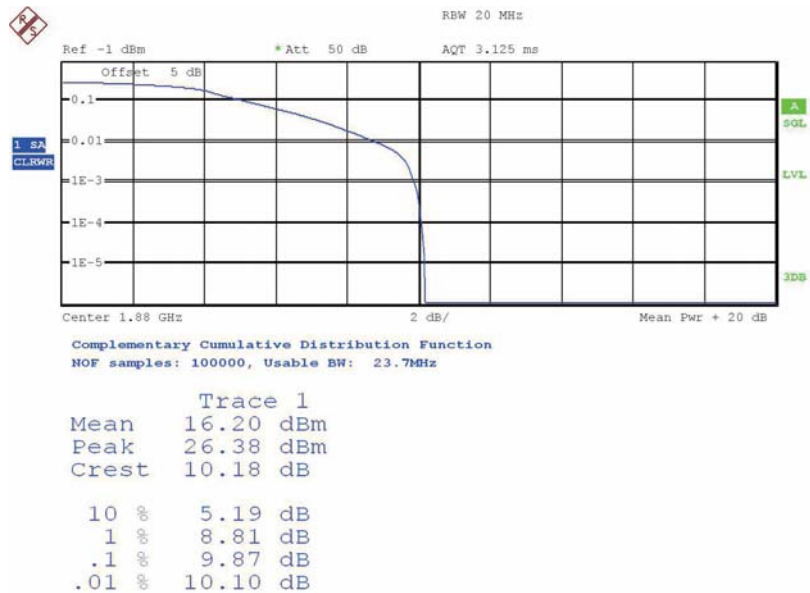
Band26-CH26865-831.5MHz-BPSK

Graphical for Peak to Average Ratio Results for CAT-M:



Date: 16.JUL.2019 09:35:09

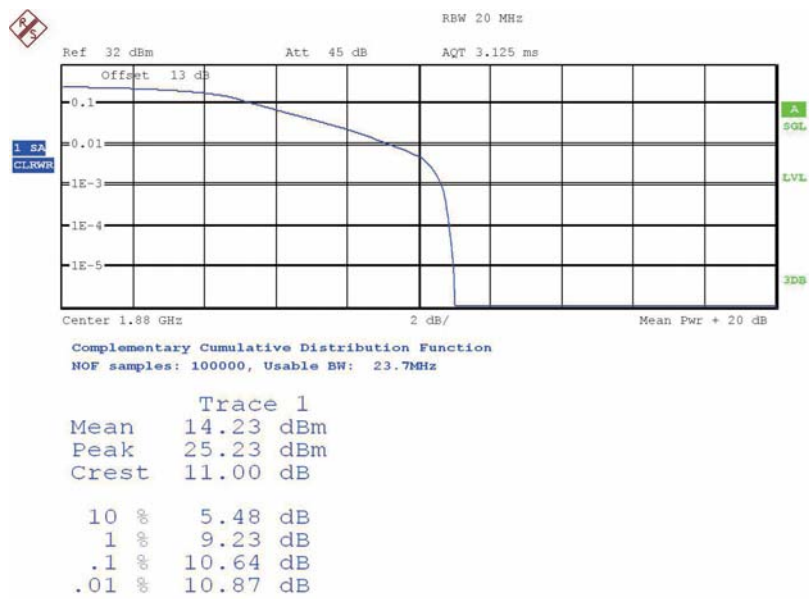
Band2-CH18900-1880MHz-1.4MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:14:41

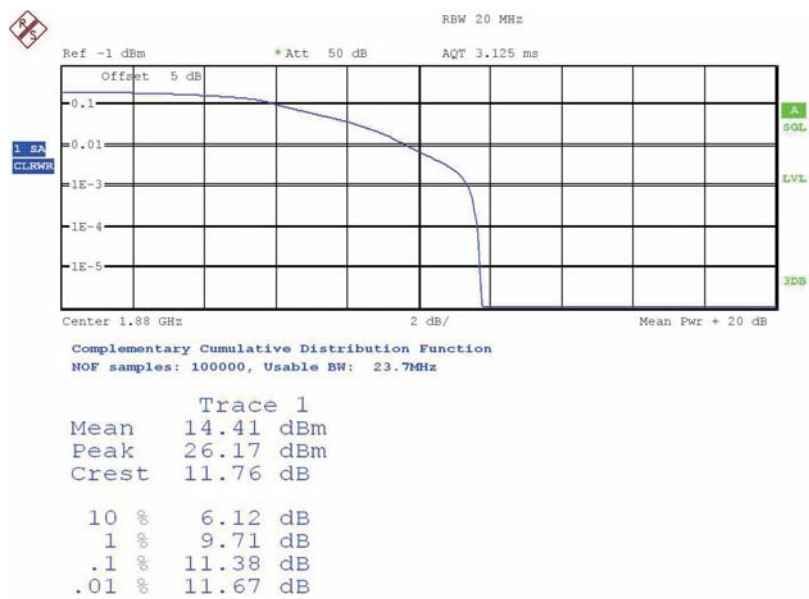
Band2-CH18900-1880MHz-1.4MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:40:14

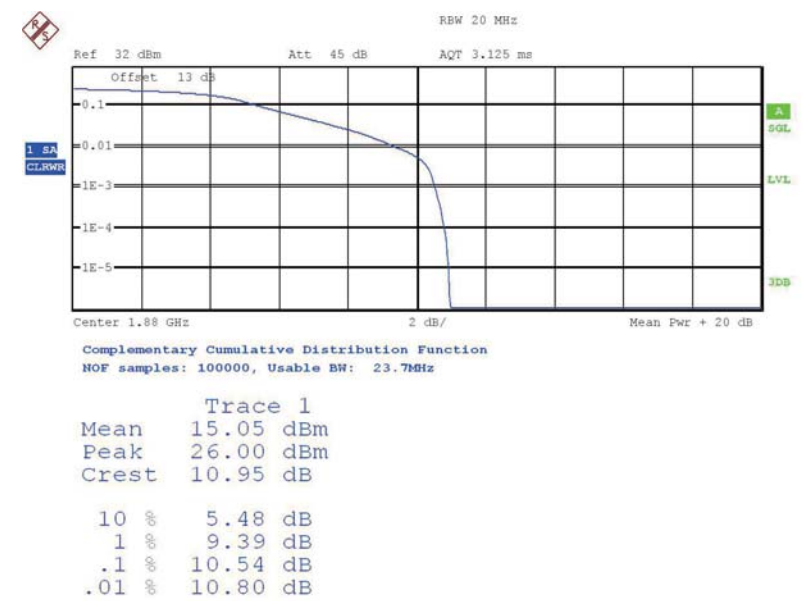
Band2-CH18900-1880MHz-3MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:14:14

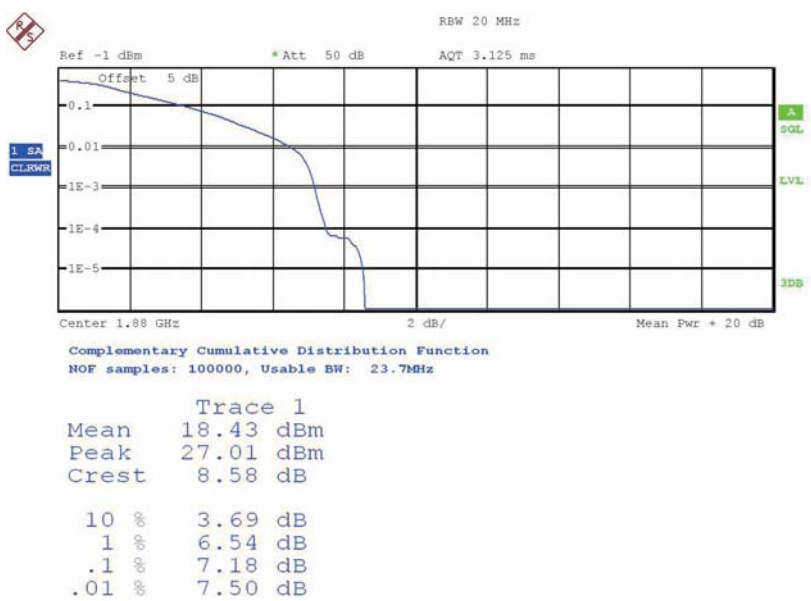
Band2-CH18900-1880MHz-3MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:28:49

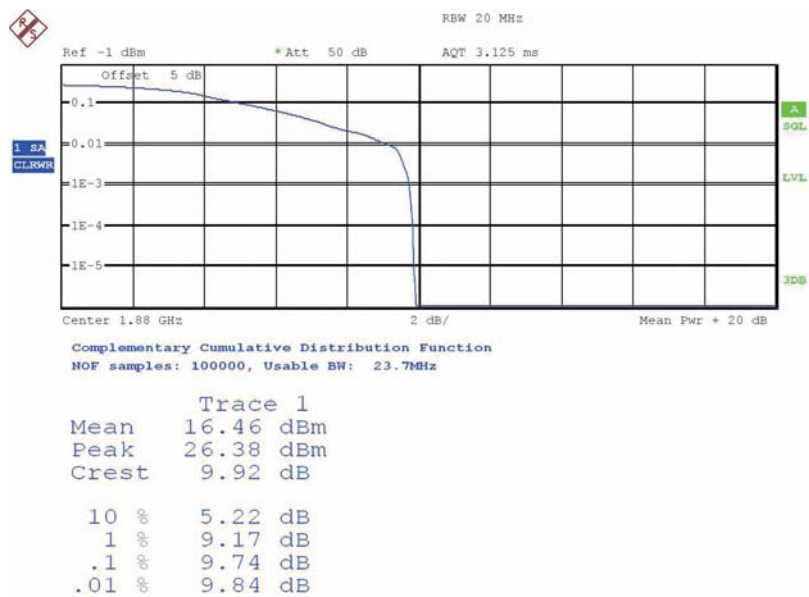
Band2-CH18900-1880MHz-5MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:13:53

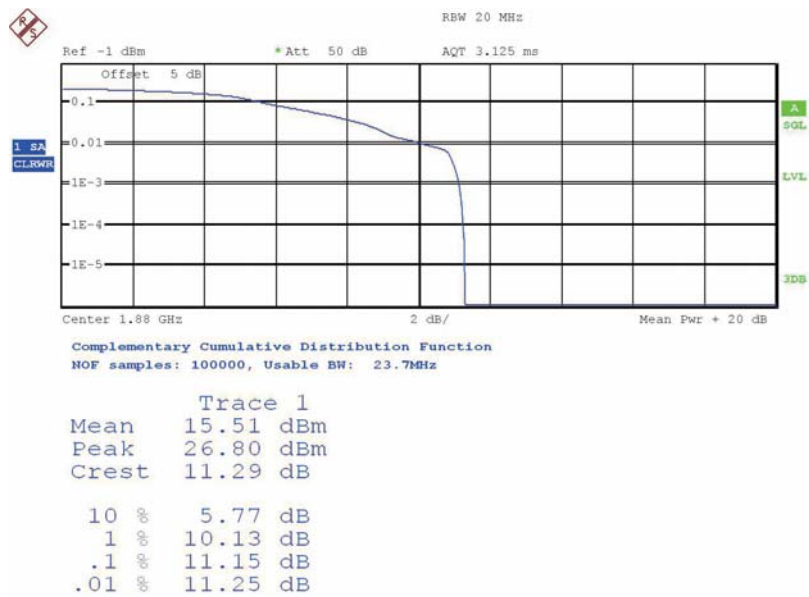
Band2-CH18900-1880MHz-5MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 31.JUL.2019 11:07:25

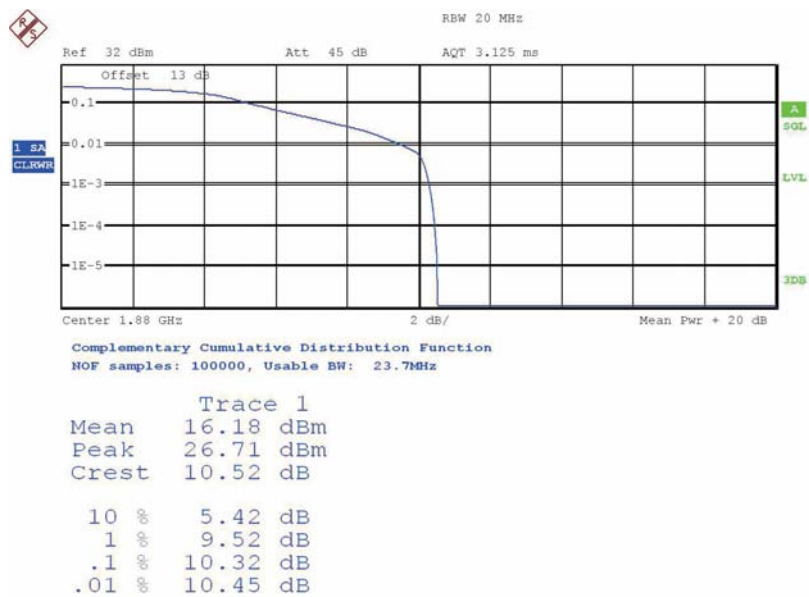
Band2-CH18900-1880MHz-10MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:11:52

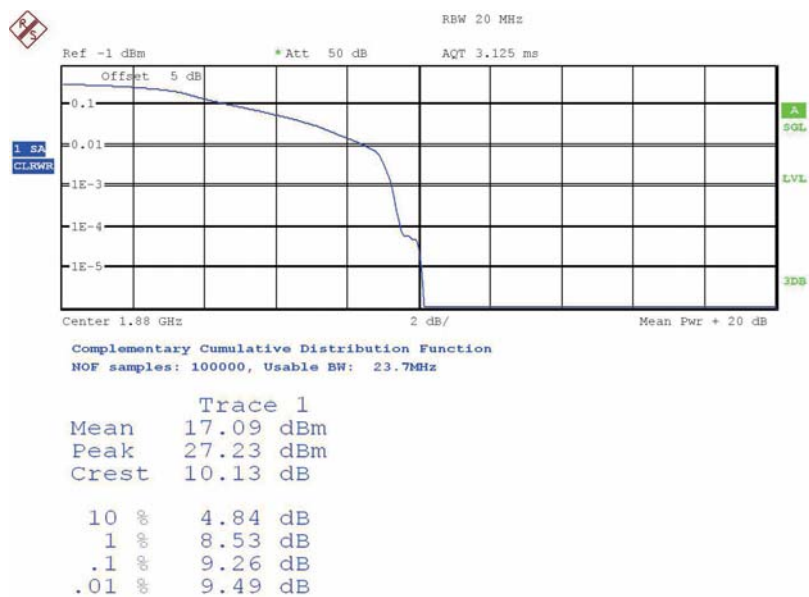
Band2-CH18900-1880MHz-10MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:42:10

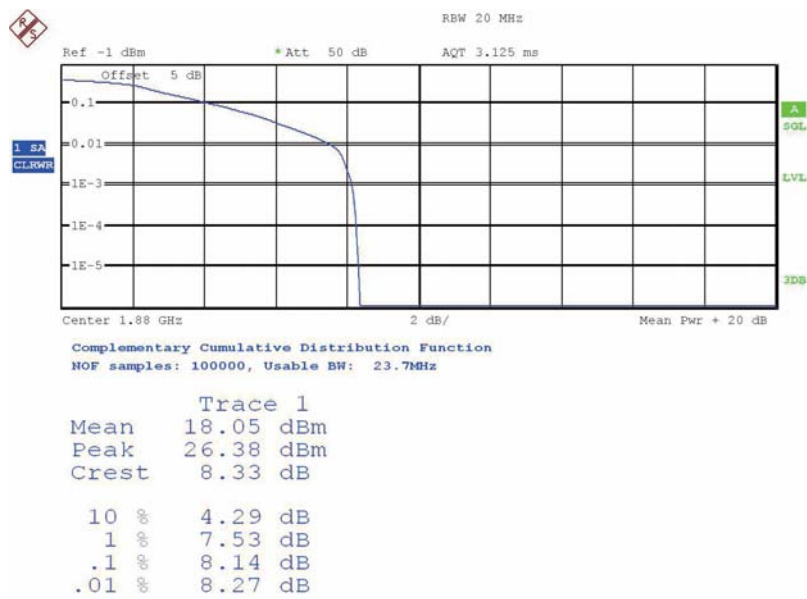
Band2-CH18900-1880MHz-15MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:11:33

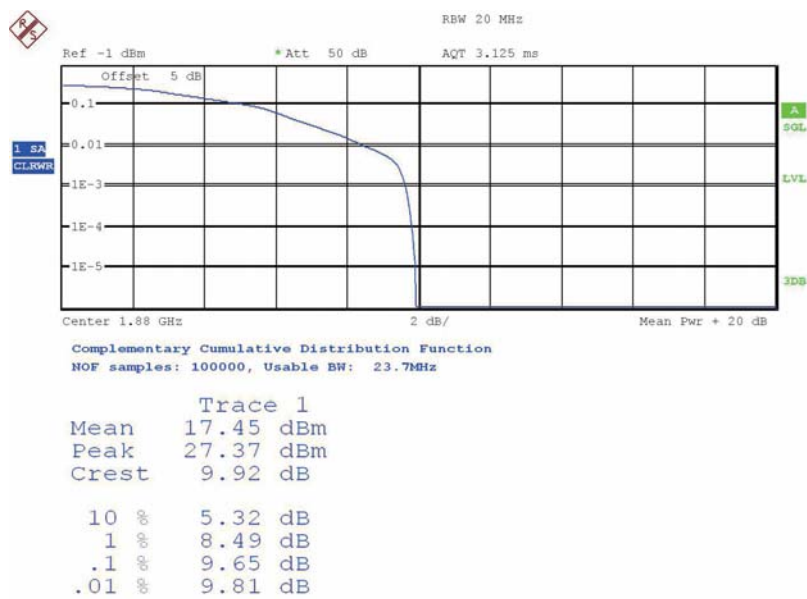
Band2-CH18900-1880MHz-15MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 31.JUL.2019 11:09:51

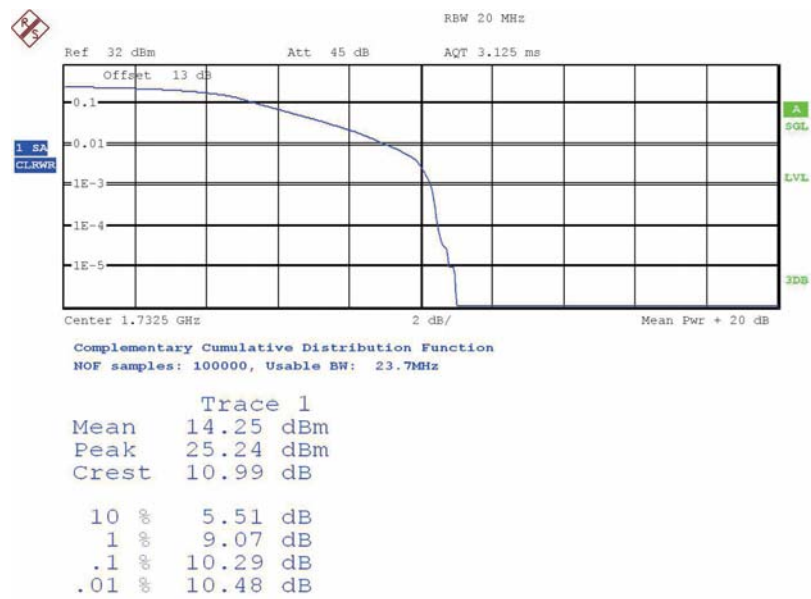
Band2-CH18900-1880MHz-20MHz Bandwidth-QPSK



Date: 31.JUL.2019 11:10:30

Band2-CH18900-1880MHz-20MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:55:06

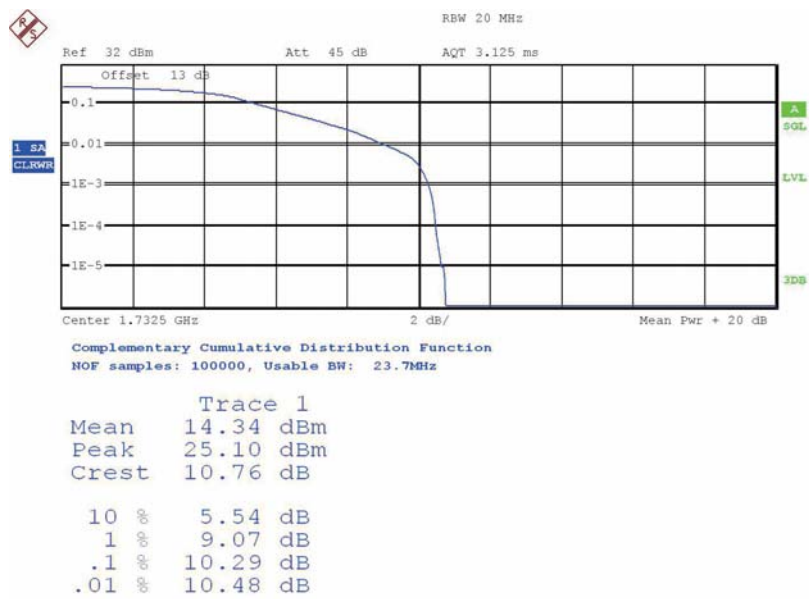
Band4-CH20175-707.5MHz -1.4MHz Bandwidth-QPSK



Date: 31.JUL.2019 12:52:45

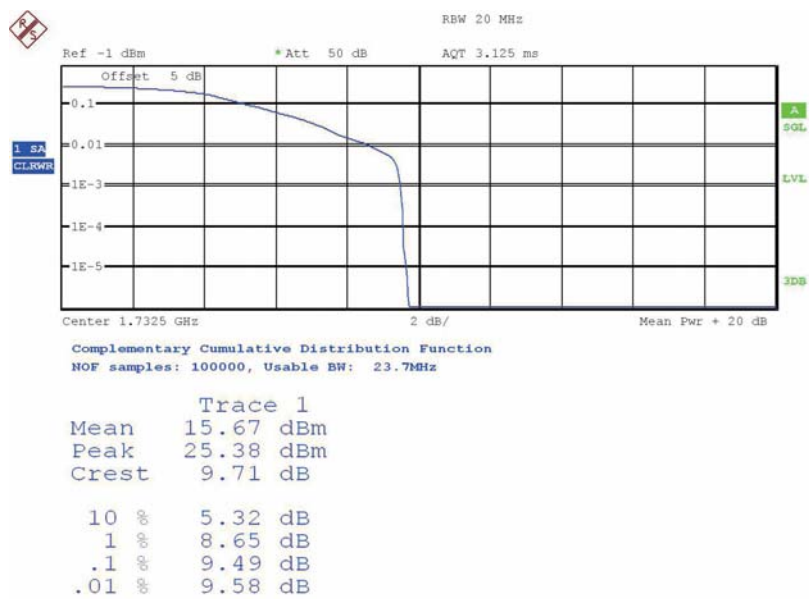
Band4-CH20175-707.5MHz -1.4MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:54:08

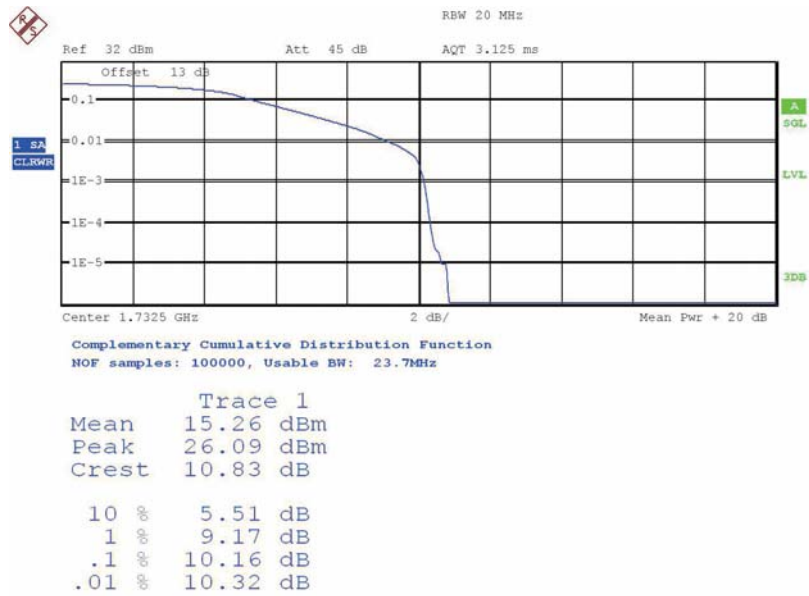
Band4-CH20175-707.5MHz -3MHz Bandwidth-QPSK



Date: 31.JUL.2019 12:54:04

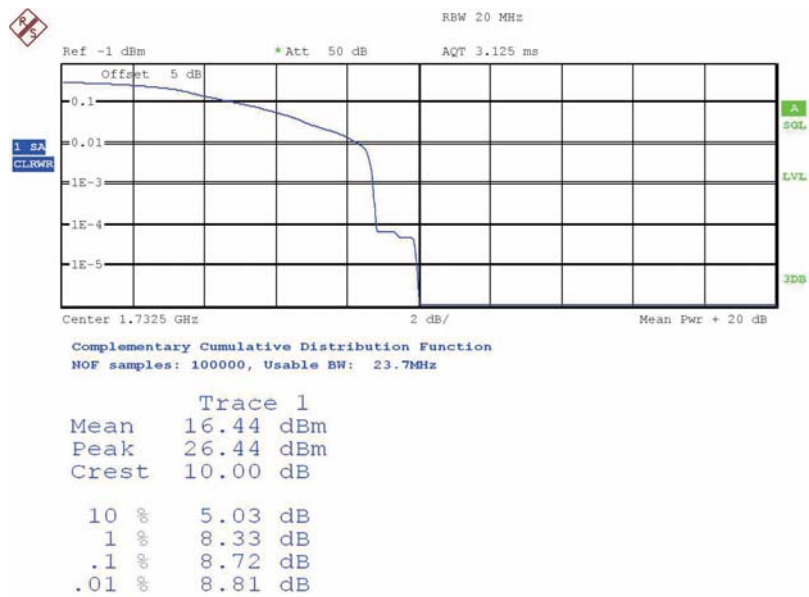
Band4-CH20175-707.5MHz -3MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:52:01

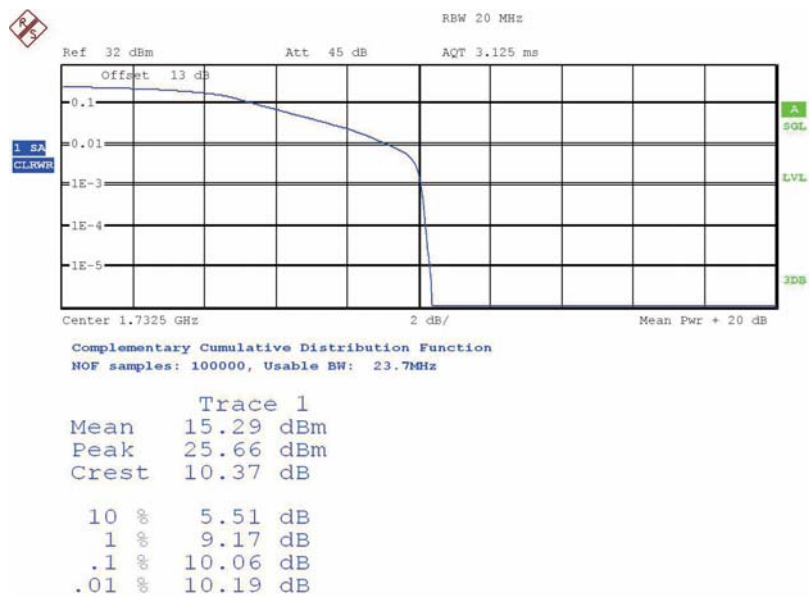
Band4-CH20175-707.5MHz -5MHz Bandwidth-QPSK



Date: 31.JUL.2019 12:54:13

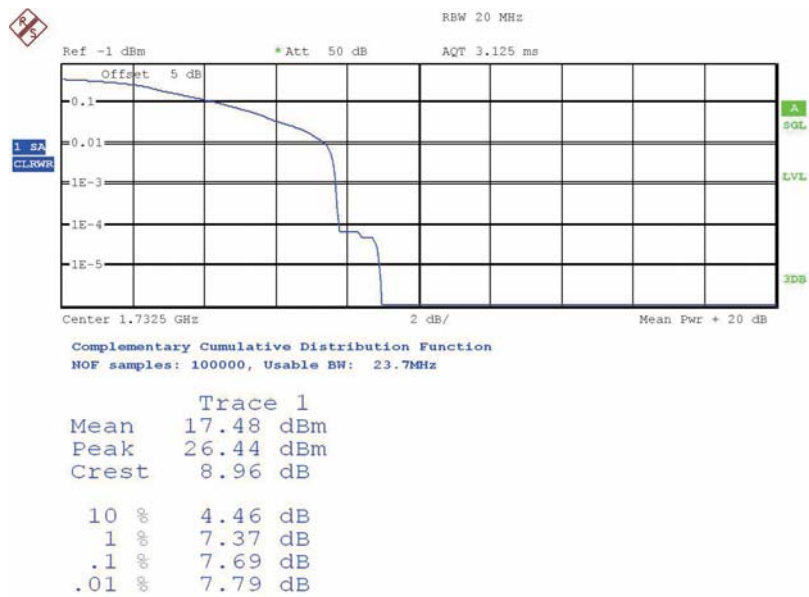
Band4-CH20175-707.5MHz -5MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:53:12

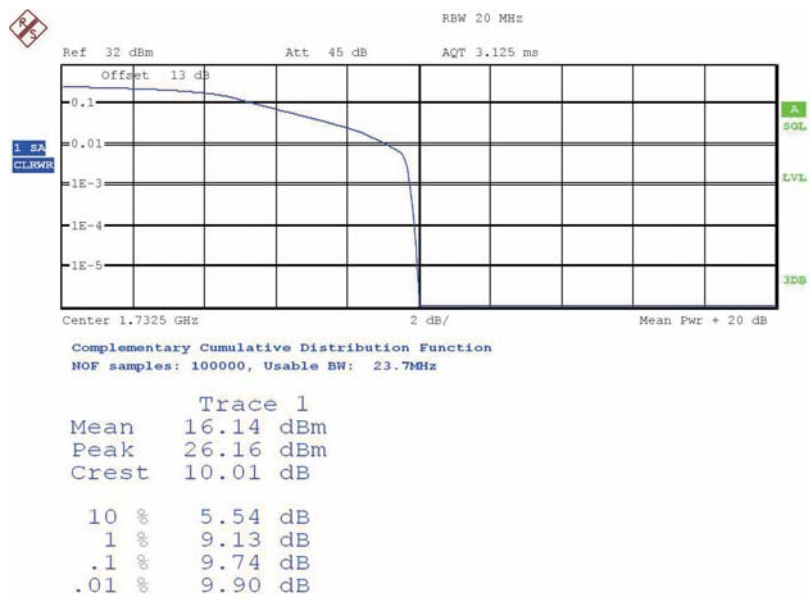
Band4-CH20175-707.5MHz-10MHz Bandwidth-QPSK



Date: 31.JUL.2019 12:54:27

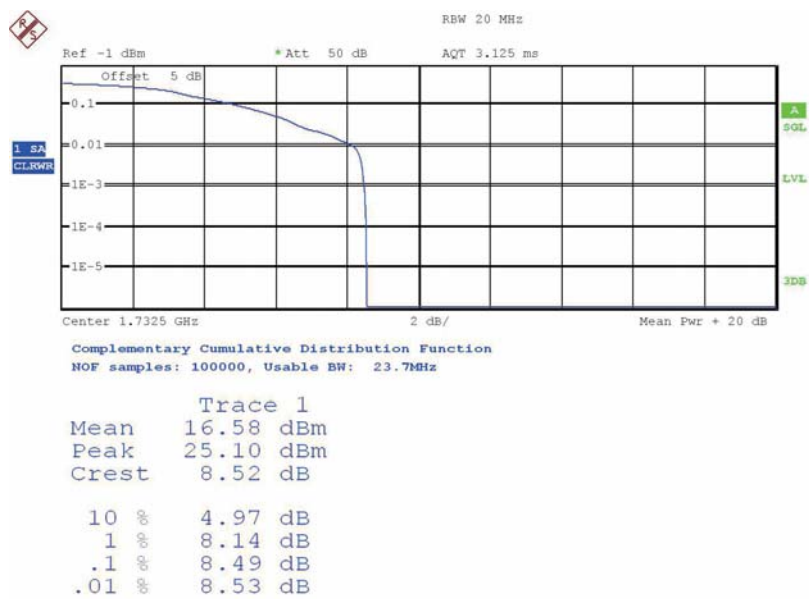
Band4-CH20175-707.5MHz-10MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:44:40

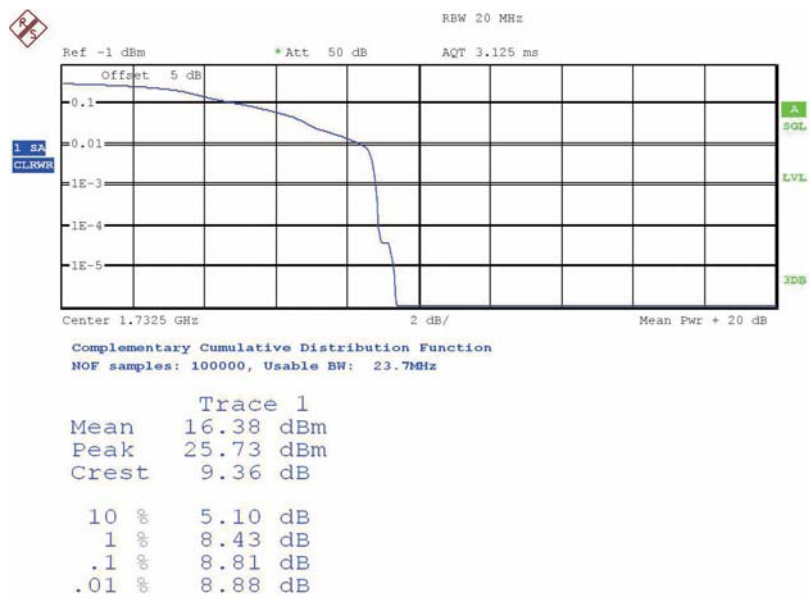
Band4-CH20175-707.5MHz -15MHz Bandwidth-QPSK



Date: 31.JUL.2019 12:54:38

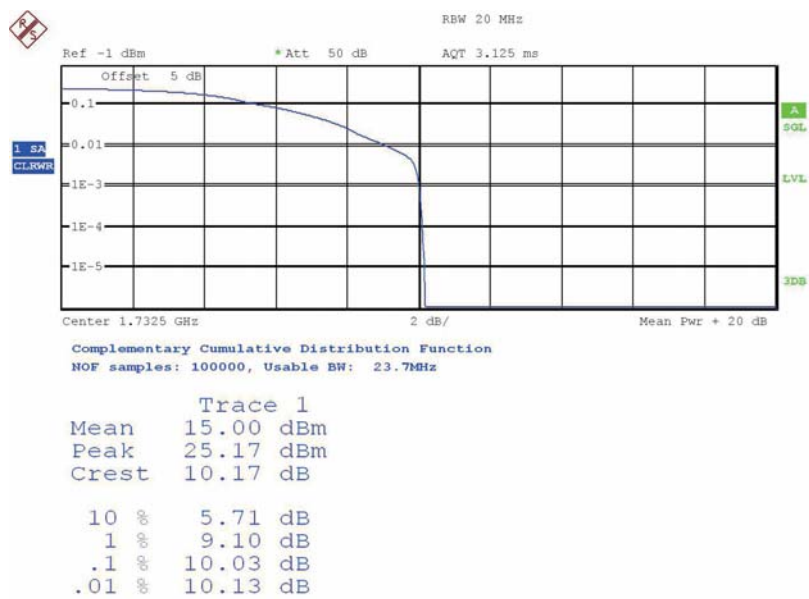
Band4-CH20175-707.5MHz-15MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



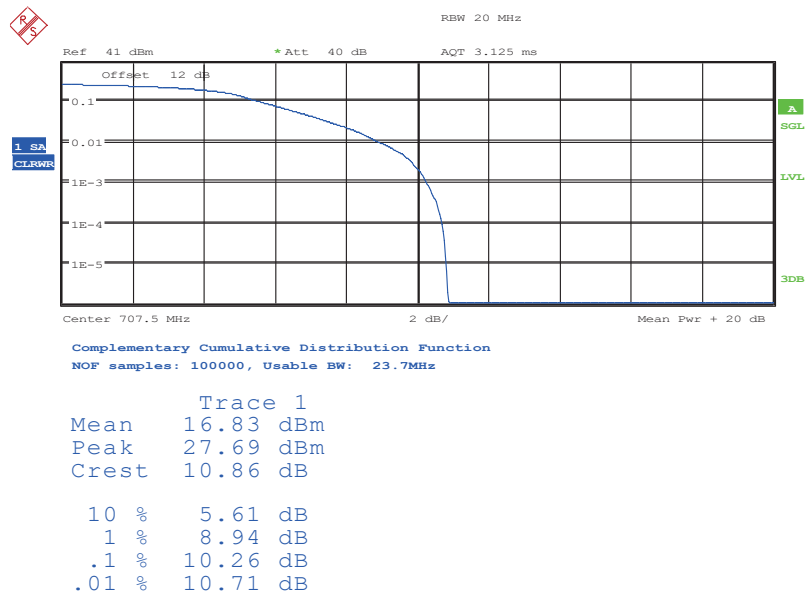
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Band4-CH20175-707.5MHz-20MHz Bandwidth-QPSK



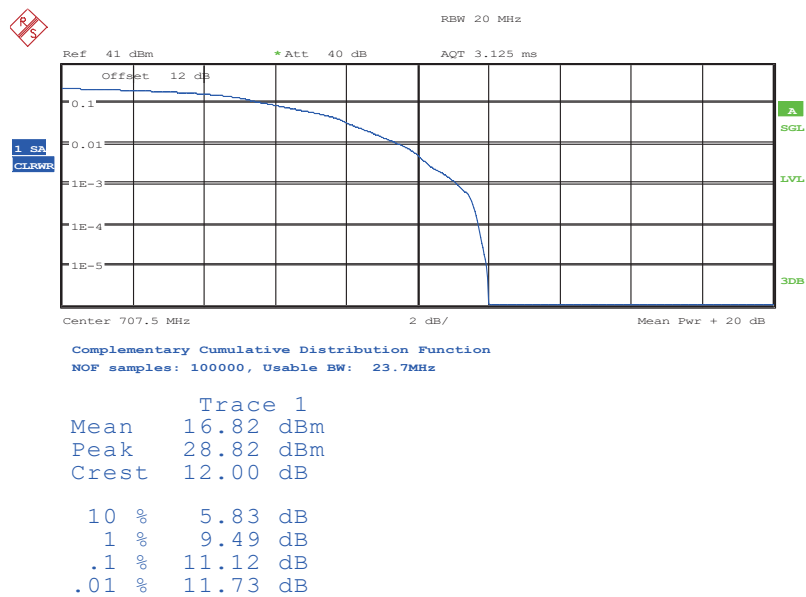
Date: 31.JUL.2019 12:54:57

Band4-CH20175-707.5MHz-20MHz Bandwidth-16QAM



Date: 27.AUG.2019 17:32:49

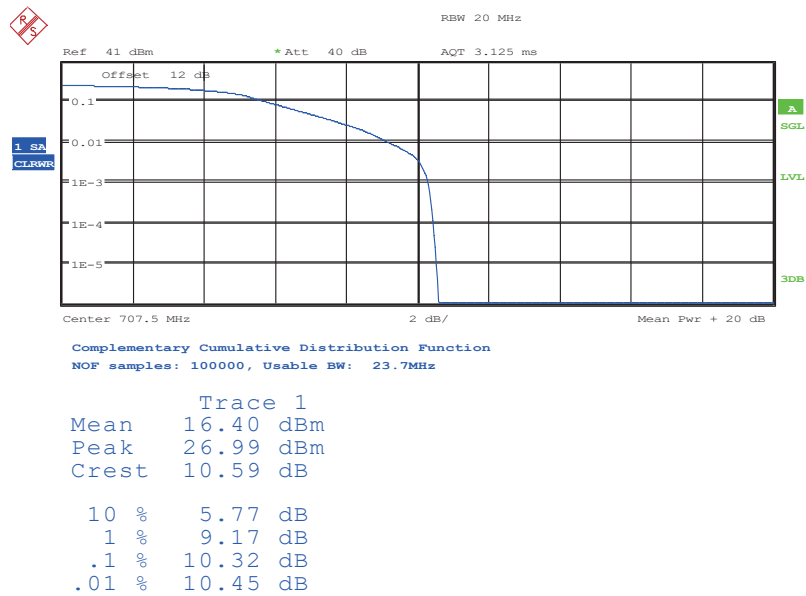
Band12-CH23095-707.5MHz-1.4MHz Bandwidth-QPSK



Date: 27.AUG.2019 17:34:54

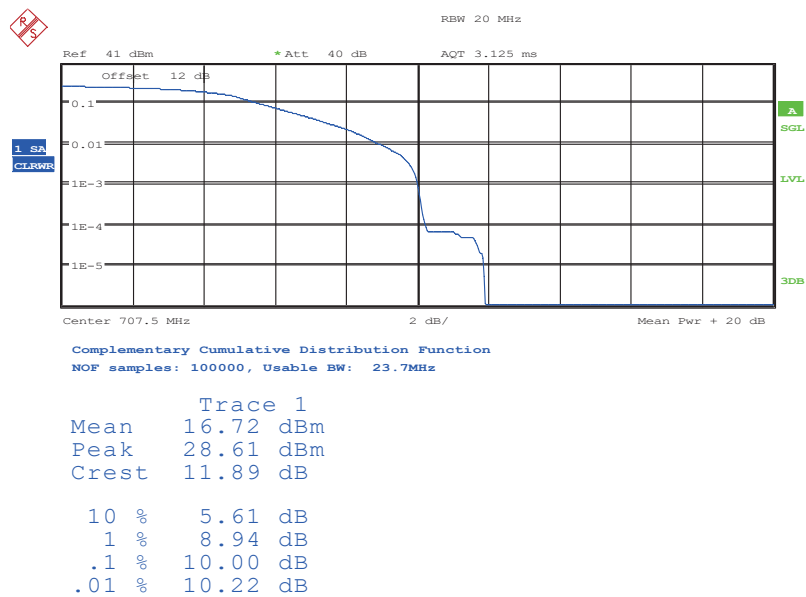
Band12-CH23095-707.5MHz-1.4MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 27.AUG.2019 17:38:05

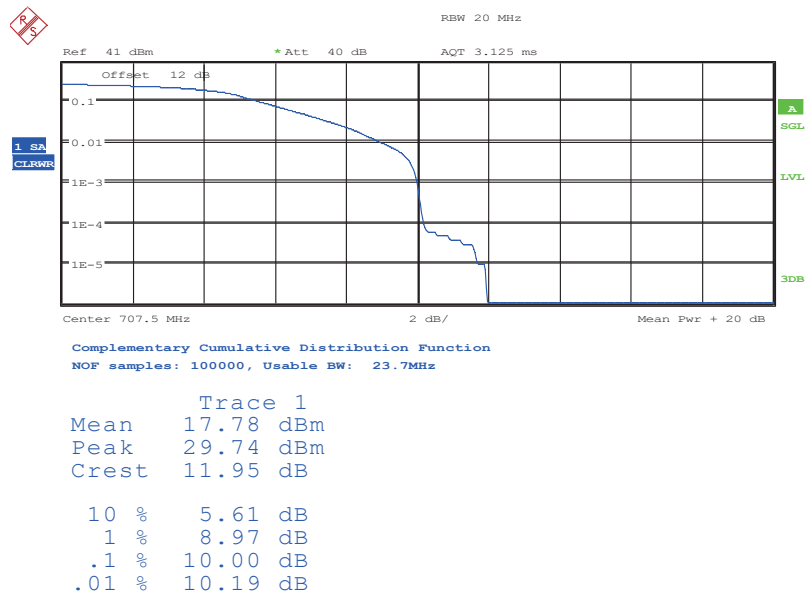
Band12-CH23095-707.5MHz-3MHz Bandwidth-QPSK



Date: 27.AUG.2019 17:36:47

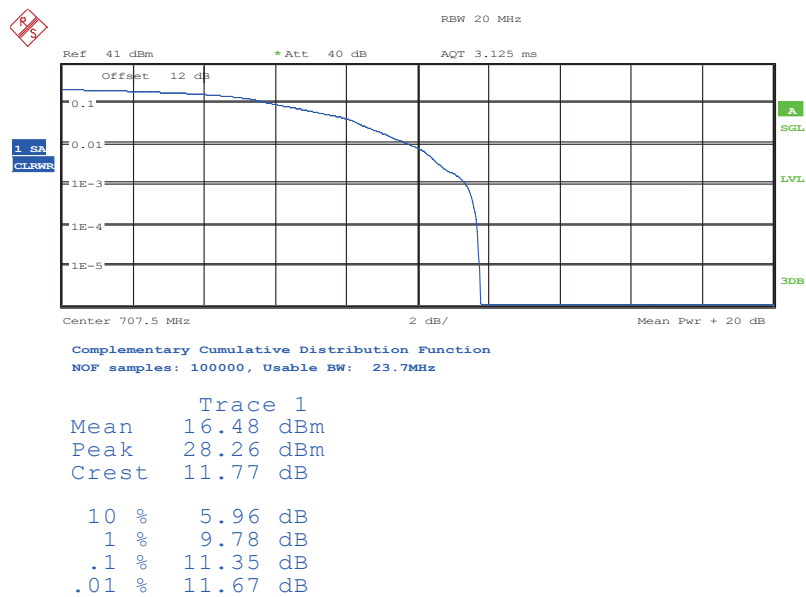
Band12-CH23095-707.5MHz-3MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



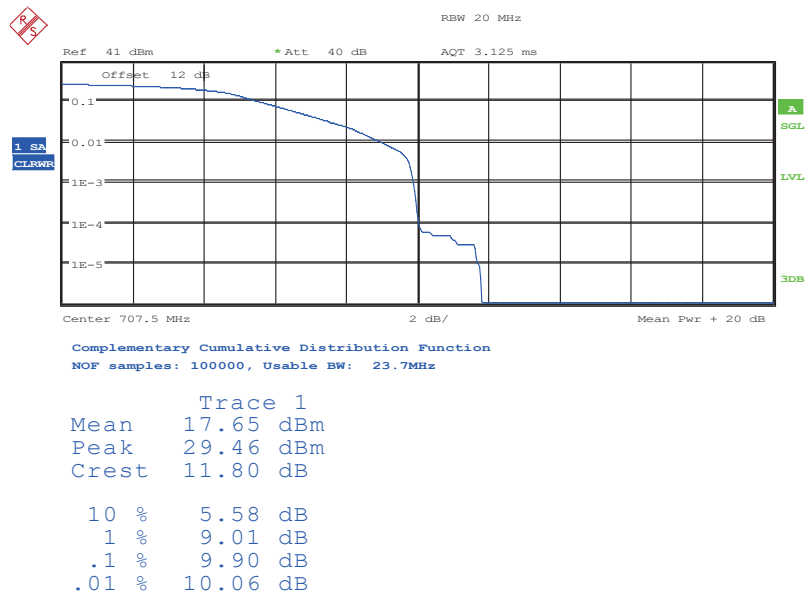
Date: 27.AUG.2019 17:39:43

Band12-CH23095-707.5MHz-5MHz Bandwidth-QPSK



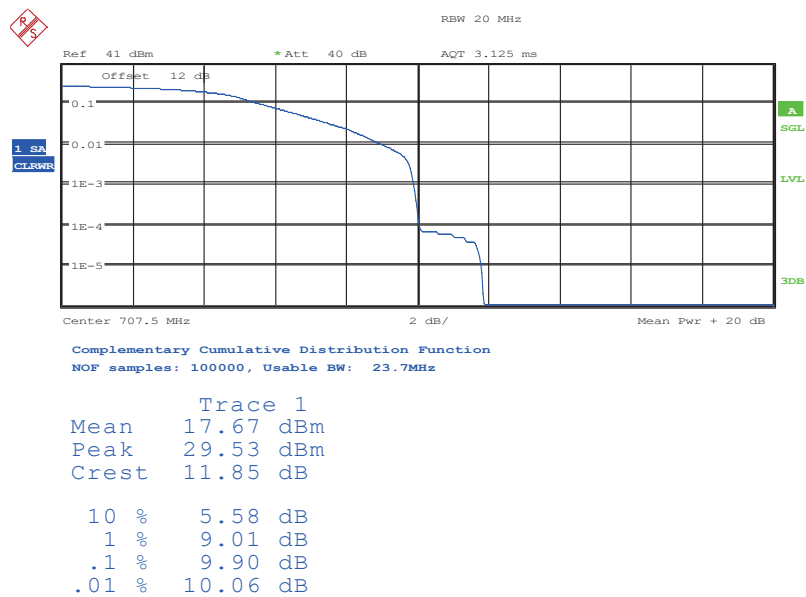
Date: 27.AUG.2019 17:49:53

Band12-CH23095-707.5MHz-5MHz Bandwidth-16QAM



Date: 27.AUG.2019 17:53:40

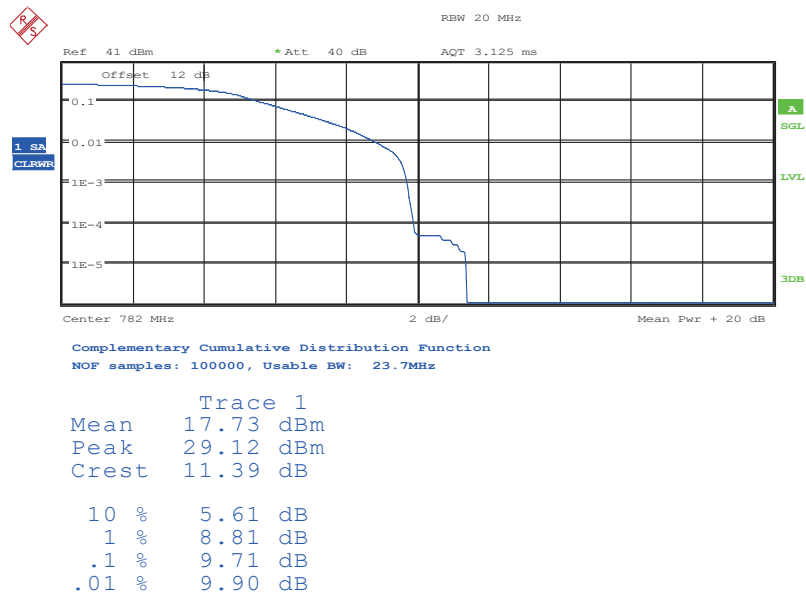
Band12-CH23095-707.5MHz-10MHz Bandwidth-QPSK



Date: 27.AUG.2019 17:53:08

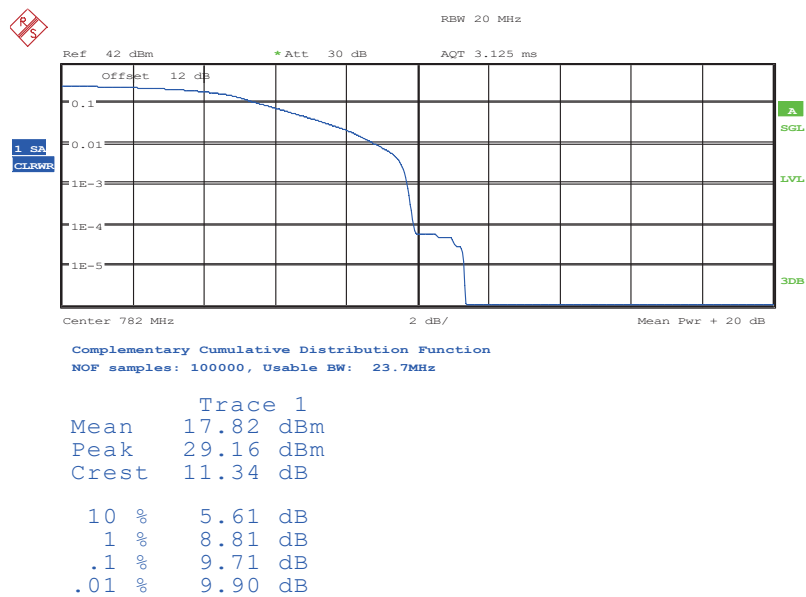
Band12-CH23095-707.5MHz-10MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



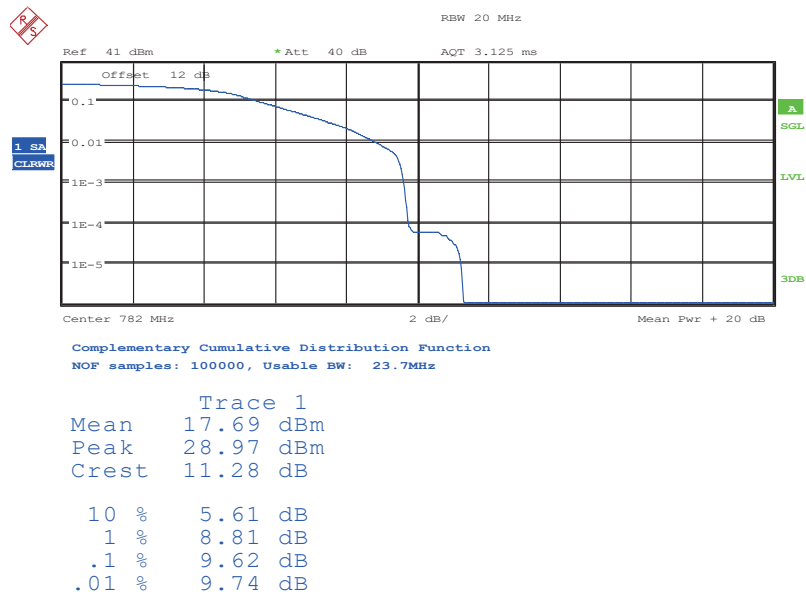
Date: 27.AUG.2019 17:57:42

Band13-CH23230-782MHz-5MHz Bandwidth-QPSK



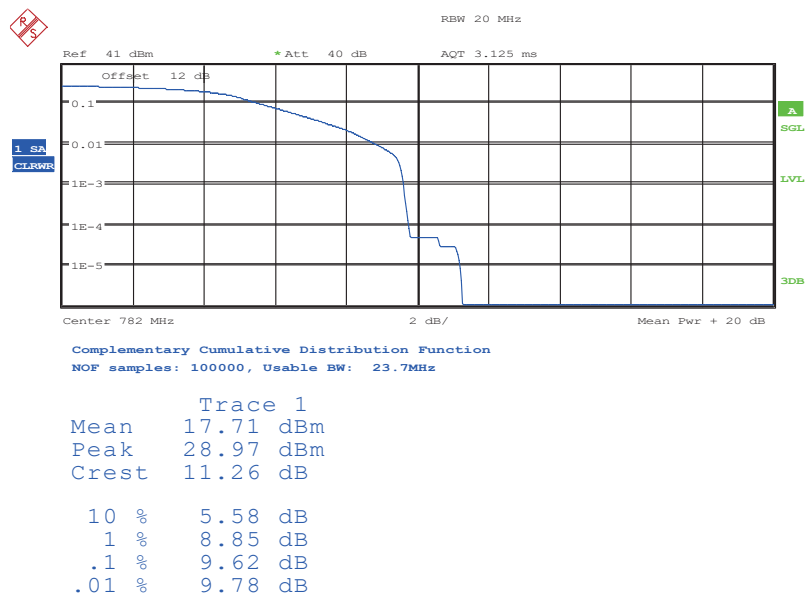
Date: 28.AUG.2019 14:24:25

Band13-CH23230-782MHz-5MHz Bandwidth-16QAM



Date: 27.AUG.2019 18:02:16

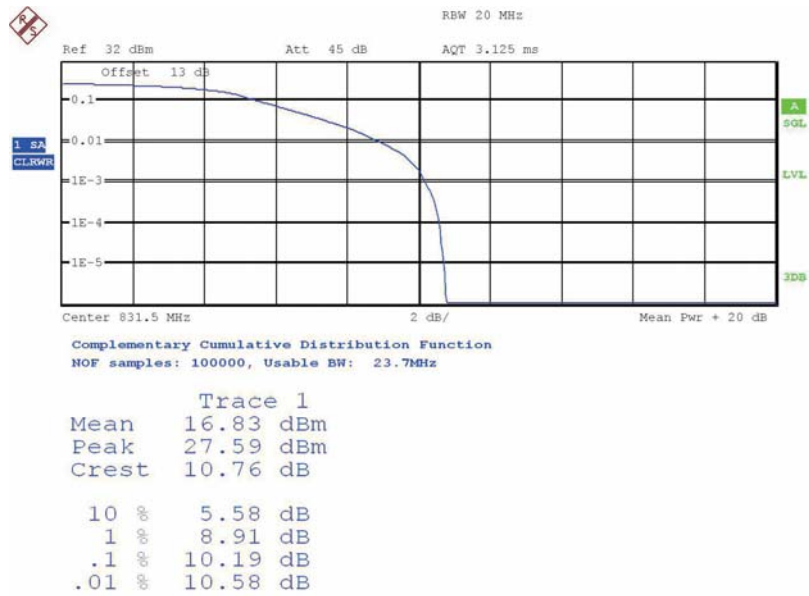
Band13-CH23230-782MHz-10MHz Bandwidth-QPSK



Date: 27.AUG.2019 18:01:48

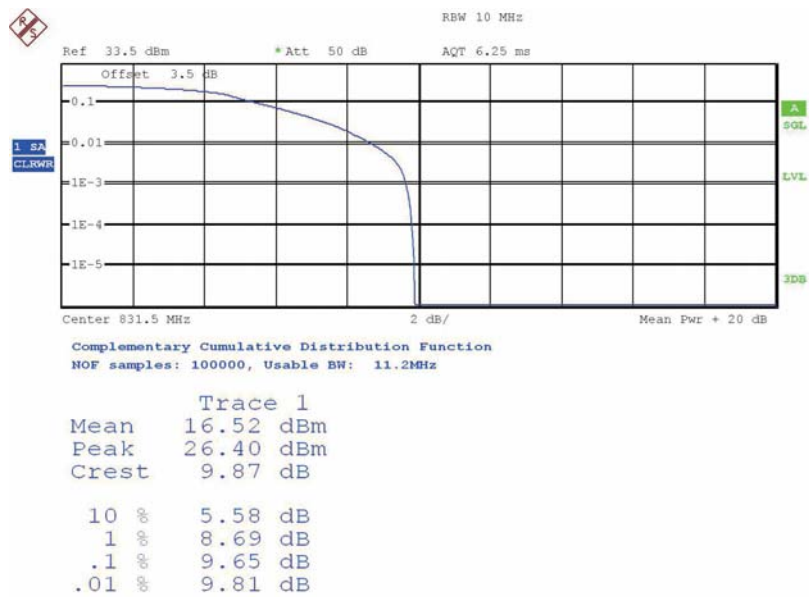
Band13-CH23230-782MHz-10MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 09:58:17

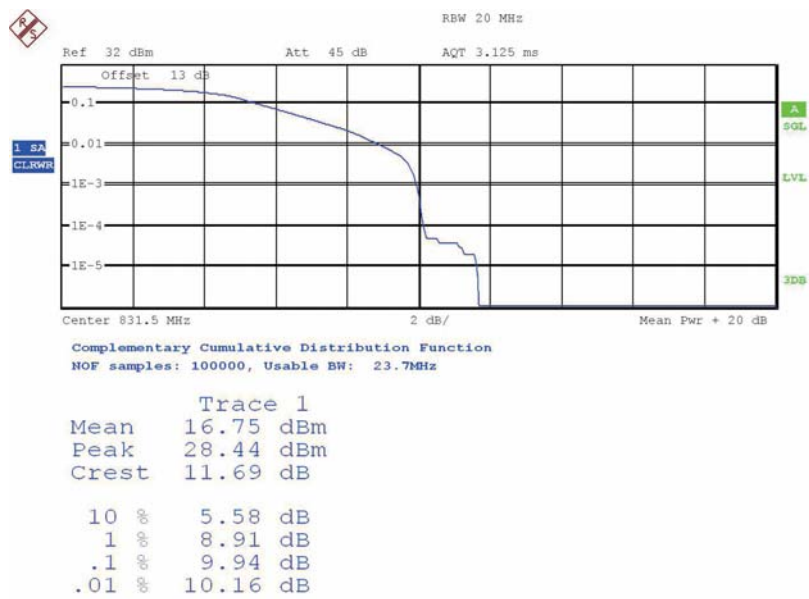
Band26-CH26865-831.5MHz-1.4MHz Bandwidth-QPSK



Date: 31.JUL.2019 13:08:00

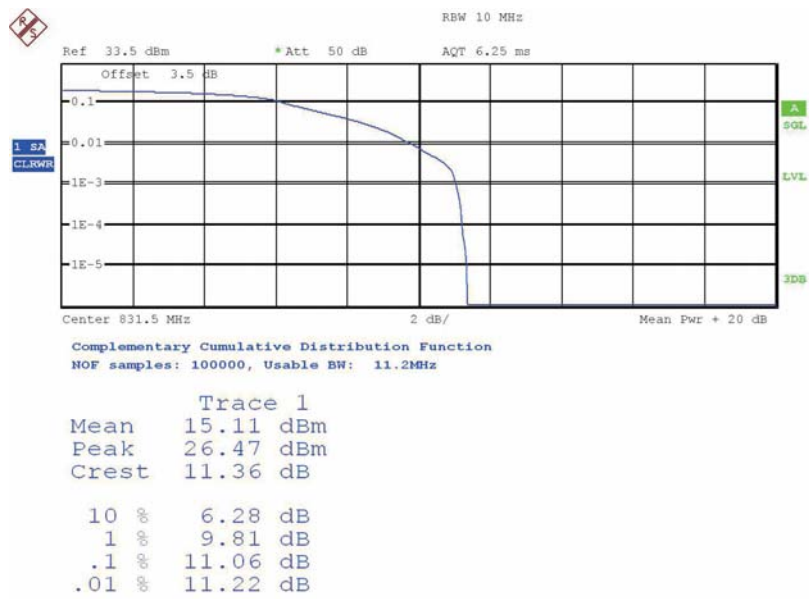
Band26-CH26865-831.5MHz-1.4MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 10:00:53

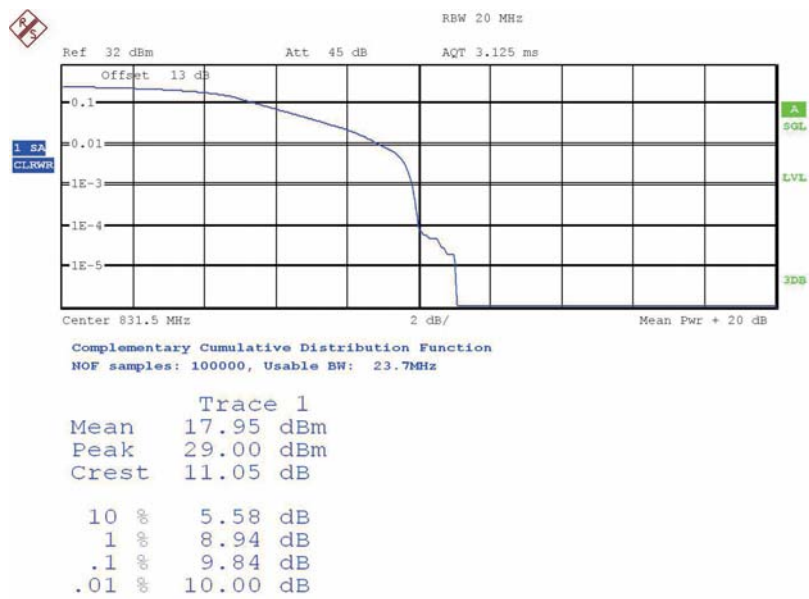
Band26-CH26865-831.5MHz-3MHz Bandwidth-QPSK



Date: 31.JUL.2019 13:07:50

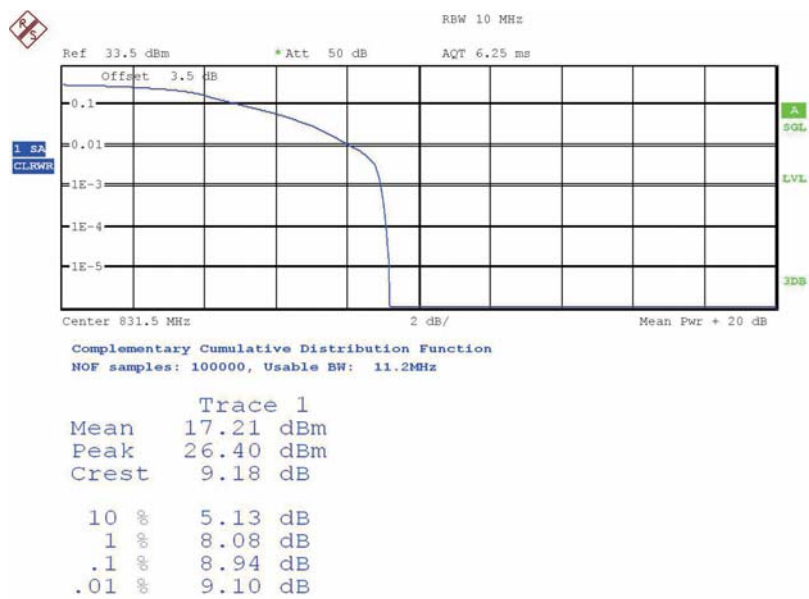
Band26-CH26865-831.5MHz-3MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 10:01:54

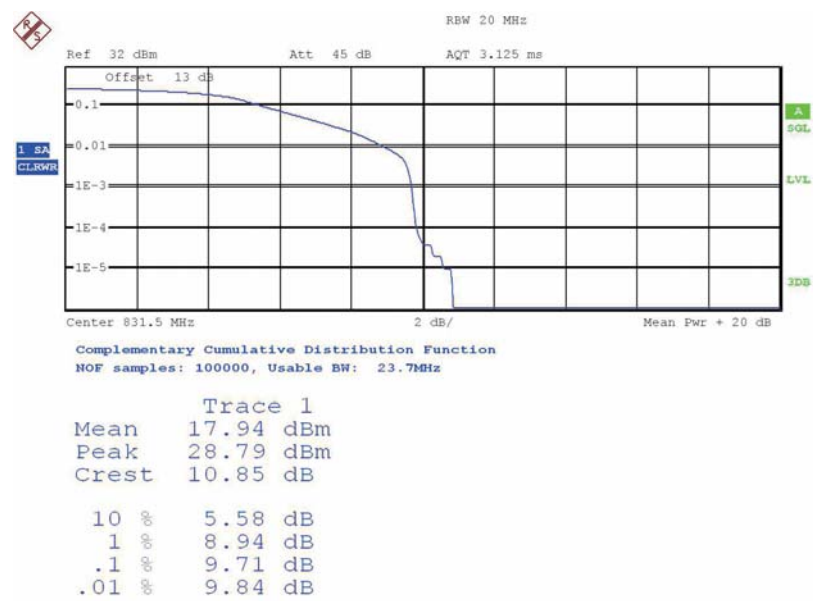
Band26-CH26865-831.5MHz-5MHz Bandwidth-QPSK



Date: 31.JUL.2019 13:07:39

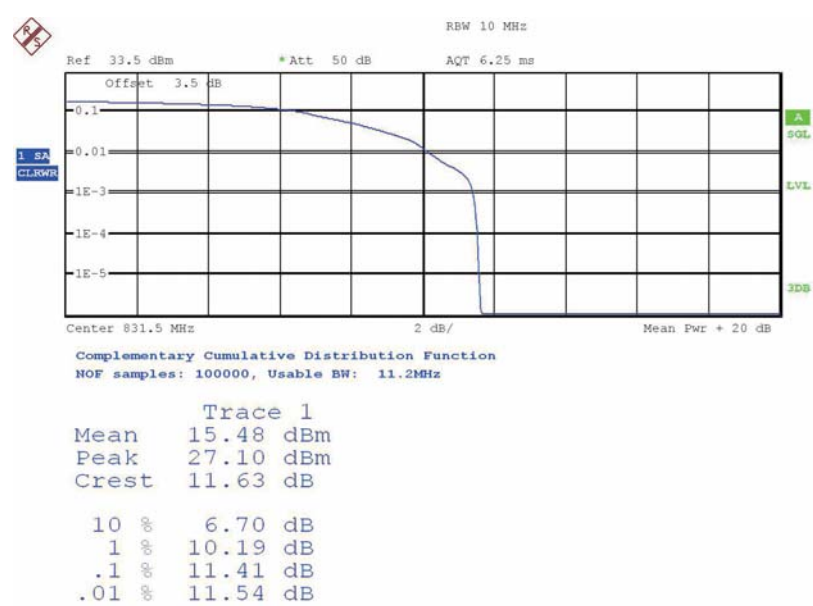
Band26-CH26865-831.5MHz-5MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 10:02:49

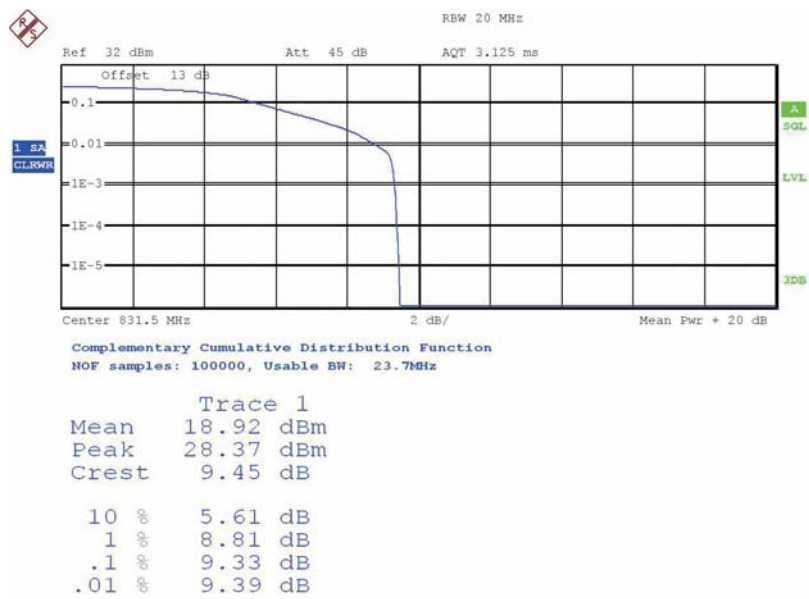
Band26-CH26865-831.5MHz-10MHz Bandwidth-QPSK



Date: 31.JUL.2019 13:06:57

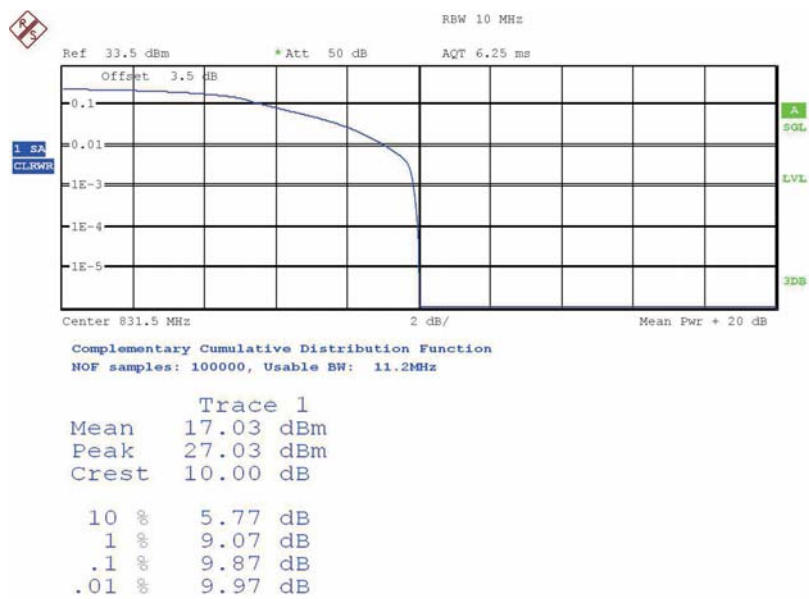
Band26-CH26865-831.5MHz-10MHz Bandwidth-16QAM

Report No.: B19W50225-WWAN_Rev1



Date: 16.JUL.2019 10:04:06

Band26-CH26865-831.5MHz-15MHz Bandwidth-QPSK



Date: 31.JUL.2019 13:07:15

Band26-CH26865-831.5MHz-15MHz Bandwidth-16QAM

5.9 ERP and EIRP

Specifications:	FCC Part 24.232(b), 27.50(d), 27.50(h)(2), 27.50(c)
DUT Serial Number:	353081090308282
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c),"Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power"and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

According to Part 27.50(d), "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP".

According to Part 27.50(c), specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

Test Setup

The EUT was placed in an anechoic chamber. The Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

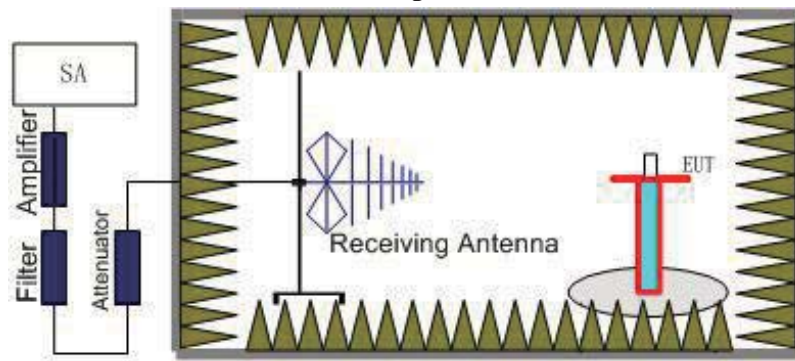
Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	5.15 dB (k=2)

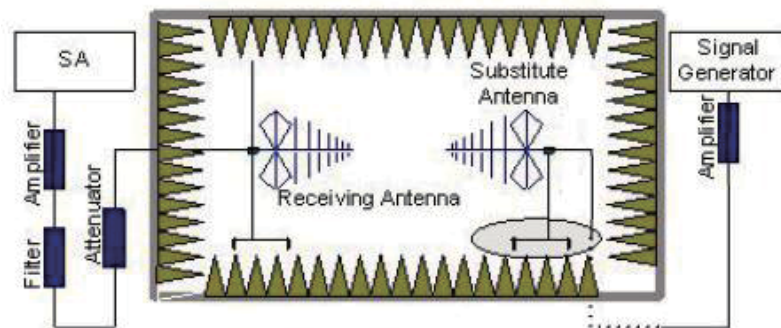
Method of Measurement

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

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from thereceive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUTfor emission measurements. The height of receiving antenna is 1.5m. The test setup refers tofigure below. Detected emissions were maximized at each frequency by rotating the EUTthrough 360° and adjusting the receiving antenna polarization. The radiated emissionmeasurements of all transmit frequencies in three channels (High, Middle, Low) weremeasured with peak detector.



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 thereference point of the chamber. An RF Signal source for the frequency band of interest isisconnected to the substitution antenna with a cable that has been constructed to not interferewith the radiation pattern of the antenna. A power (PMea) is applied to the input of thesubstitution antenna, and adjust the level of the signal generator output until the value of thereceiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. Thetest should be performed by rotating the test item and adjusting the receiving antennapolarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should beconnect between the Amplifier and the Substitution Antenna.

The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should berecorded after test.

The measurement results are obtained as described below:

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

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

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,

$$\text{ERP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

Note: Only worst case result is given below.

5.9.1 GSM 850 ERP

Test Data (GPRS GMSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
824.2	28.09	3.4	6.9	31.59	V
836.6	27.91	3.4	6.9	31.41	V
848.8	27.22	3.4	6.9	30.72	V

Test Data (EGPRS GMSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
824.2	28.61	3.4	6.9	32.11	V
836.6	28.33	3.4	6.9	31.83	V
848.8	28.50	3.4	6.9	32.0	V

Test Data (EGPRS 8PSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
824.2	23.37	3.4	6.9	26.87	V
836.6	23.41	3.4	6.9	26.91	V
848.8	22.40	3.4	6.9	25.90	V

5.9.2 GSM 1900 EIRP

Test Data (GPRS GMSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.2	25.67	5.0	7.0	27.67	V
1880.0	25.80	5.0	7.0	27.80	V
1909.8	25.72	5.1	7.0	27.62	V

Test Data (EGPRS GMSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.2	25.53	5.0	7.0	27.53	V
1880.0	25.81	5.0	7.0	27.81	V
1909.8	25.46	5.1	7.0	27.36	V

Test Data (EGPRS 8PSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.2	23.31	5.0	7.0	25.31	V
1880.0	23.52	5.0	7.0	25.52	V
1909.8	23.10	5.1	7.0	25.0	V

5.9.3 NB-IoT Band 2 EIRP

Test Data (QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.0	20.54	5.0	7.0	22.54	V
1880.0	20.63	5.0	7.0	22.63	V
1910.0	20.82	5.1	7.0	22.72	V

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Test Data (BPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.0	20.60	5.0	7.0	22.60	V
1880.0	20.67	5.0	7.0	22.67	V
1910.0	20.62	5.1	7.0	22.52	V

5.9.4 NB-IoT Band 4 EIRP

Test Data (QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1710.0	19.56	4.8	7.1	21.86	V
1732.5	19.59	4.9	7.1	21.79	V
1755.0	19.72	4.9	7.1	21.92	V

Test Data (BPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1710.0	19.43	4.8	7.1	21.73	V
1732.5	19.29	4.9	7.1	21.49	V
1755.0	19.57	4.9	7.1	21.77	V

5.9.5 NB-IoT Band 12 ERP

Test Data (QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
699.1	17.25	3.1	8.9	23.05	V
707.5	16.86	3.1	9.1	22.86	V
715.8	16.79	3.1	9.1	22.79	V

Test Data (BPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
699.1	16.89	3.1	8.9	22.69	V
707.5	16.57	3.1	9.1	22.57	V
715.8	16.77	3.1	9.1	22.77	V

5.9.6 NB-IoT Band 13 ERP

Test Data (QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
777.1	18.09	3.3	8.1	22.89	V
782.0	17.95	3.3	8.1	22.75	V
786.8	18.02	3.3	8.0	22.72	V

Test Data (BPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
777.1	17.55	3.3	8.1	22.35	V
782.0	17.82	3.3	8.1	22.62	V
786.8	17.84	3.3	8.0	22.54	V

5.9.7 NB-IoT Band 26 ERP

Test Data (QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.58	3.3	6.9	22.18	V
831.5	18.82	3.4	6.9	22.32	V
849.0	18.80	3.4	6.9	22.30	V

Test Data (BPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.24	3.3	6.9	21.84	V
831.5	18.43	3.4	6.9	21.93	V
849.0	18.22	3.4	6.9	21.72	V

5.9.8 Cat-M Band 2 EIRP

Test Data (1.4M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.7	19.35	5.0	7.0	21.35	V
1880.0	19.62	5.0	7.0	21.62	V
1909.3	19.58	5.1	7.0	21.48	V

Test Data (1.4M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.7	18.75	5.0	7.0	20.75	V
1880.0	18.83	5.0	7.0	20.83	V
1909.3	18.98	5.1	7.0	20.88	V

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Test Data (3M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1851.5	19.49	5.0	7.0	21.49	V
1880.0	19.33	5.0	7.0	21.33	V
1908.5	19.50	5.1	7.0	21.40	V

Test Data (3M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1851.5	18.79	5.0	7.0	20.79	V
1880.0	18.81	5.0	7.0	20.81	V
1908.5	19.0	5.1	7.0	20.90	V

Test Data (5M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1852.5	19.42	5.0	7.0	21.42	V
1880.0	19.60	5.0	7.0	21.60	V
1907.5	19.63	5.1	7.0	21.53	V

Test Data (5M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1852.5	18.86	5.0	7.0	20.86	V
1880.0	18.95	5.0	7.0	20.95	V
1907.5	18.83	5.1	7.0	20.73	V

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Test Data (10M QPSK Mode)

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1855.0	19.38	5.0	7.0	21.38	V
1880.0	19.43	5.0	7.0	21.43	V
1905.0	19.45	5.1	7.0	21.35	V

Test Data (10M 16QAM Mode)

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1855.0	18.78	5.0	7.0	20.78	V
1880.0	18.83	5.0	7.0	20.83	V
1905.0	18.85	5.1	7.0	20.75	V

Test Data (15M QPSK Mode)

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1857.5	19.52	5.0	7.0	21.52	V
1880.0	19.60	5.0	7.0	21.60	V
1902.5	19.59	5.1	7.0	21.49	V

Test Data (15M 16QAM Mode)

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1857.5	18.82	5.0	7.0	20.82	V
1880.0	18.95	5.0	7.0	20.95	V
1902.5	18.83	5.1	7.0	20.73	V

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Test Data (20M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1858.0	19.42	5.0	7.0	21.42	V
1880.0	19.56	5.0	7.0	21.56	V
1902.0	19.49	5.1	7.0	21.39	V

Test Data (20M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1858.0	18.69	5.0	7.0	20.69	V
1880.0	18.73	5.0	7.0	20.73	V
1902.0	18.91	5.1	7.0	20.81	V

5.9.9 Cat-M Band 4 EIRP

Test Data (1.4M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1710.7	19.14	4.8	7.1	21.44	V
1732.5	19.09	4.9	7.1	21.29	V
1754.3	19.09	4.9	7.1	21.29	V

Test Data (1.4M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1710.7	18.27	4.8	7.1	20.57	V
1732.5	18.42	4.9	7.1	20.62	V
1754.3	18.16	4.9	7.1	20.36	V

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Test Data (3M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1711.5	19.25	4.8	7.1	21.55	V
1732.5	19.26	4.9	7.1	21.46	V
1753.5	19.01	4.9	7.1	21.21	V

Test Data (3M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1711.5	18.37	4.8	7.1	20.67	V
1732.5	18.46	4.9	7.1	20.66	V
1753.5	18.22	4.9	7.1	20.42	V

Test Data (5M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1712.5	19.23	4.8	7.1	21.53	V
1732.5	19.24	4.9	7.1	21.44	V
1752.5	19.32	4.9	7.1	21.52	V

Test Data (5M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1712.5	18.10	4.8	7.1	20.40	V
1732.5	18.13	4.9	7.1	20.33	V
1752.5	18.42	4.9	7.1	20.62	V

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Test Data (10M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1715.0	19.40	4.8	7.1	21.70	V
1732.5	19.46	4.9	7.1	21.66	V
1750.0	19.52	4.9	7.1	21.72	V

Test Data (10M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1715.0	18.24	4.8	7.1	20.54	V
1732.5	18.52	4.9	7.1	20.72	V
1750.0	18.43	4.9	7.1	20.63	V

Test Data (15M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1717.5	18.96	4.8	7.1	21.26	V
1732.5	19.13	4.9	7.1	21.33	V
1747.5	19.07	4.9	7.1	21.27	V

Test Data (15M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1717.5	18.29	4.8	7.1	20.59	V
1732.5	18.29	4.9	7.1	20.49	V
1747.5	18.33	4.9	7.1	20.53	V

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Test Data (20M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1720.0	19.32	4.8	7.1	21.62	V
1732.5	19.30	4.9	7.1	21.50	V
1745.0	19.17	4.9	7.1	21.37	V

Test Data (20M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1720.0	18.09	4.8	7.1	20.39	V
1732.5	18.24	4.9	7.1	20.44	V
1745.0	17.99	4.9	7.1	20.19	V

5.9.10 Cat-M Band 12 ERP

Test Data (1.4M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
699.7	15.66	3.1	8.9	21.46	V
707.5	15.54	3.1	9.1	21.54	V
715.2	15.66	3.1	9.1	21.66	V

Test Data (1.4M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
699.7	15.37	3.1	8.9	21.17	V
707.5	15.09	3.1	9.1	21.09	V
715.2	15.25	3.1	9.1	21.25	V

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Test Data (3M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
700.5	15.89	3.1	8.9	21.69	V
707.5	15.55	3.1	9.1	21.55	V
714.4	15.62	3.1	9.1	21.62	V

Test Data (3M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
700.5	15.60	3.1	8.9	21.40	V
707.5	15.33	3.1	9.1	21.33	V
714.4	15.45	3.1	9.1	21.45	V

Test Data (5M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
701.5	15.73	3.1	8.9	21.53	V
707.5	15.60	3.1	9.1	21.60	V
713.4	15.59	3.1	9.1	21.59	V

Test Data (5M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
701.5	15.46	3.1	8.9	21.26	V
707.5	15.30	3.1	9.1	21.30	V
713.4	15.22	3.1	9.1	21.22	V

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Test Data (10M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
702.5	15.94	3.1	8.9	21.74	V
707.5	15.50	3.1	9.1	21.50	V
711.0	15.45	3.1	9.1	21.45	V

Test Data (10M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
702.5	15.54	3.1	8.9	21.34	V
707.5	15.29	3.1	9.1	21.29	V
711.0	15.20	3.1	9.1	21.20	V

5.9.11 Cat-M Band 13 ERP

Test Data (5M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
779.5	16.81	3.3	8.1	21.61	V
782.0	16.88	3.3	8.1	21.68	V
784.4	16.69	3.3	8.0	21.39	V

Test Data (5M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
779.5	16.42	3.3	8.1	21.22	V
782.0	16.50	3.3	8.1	21.30	V
784.4	16.34	3.3	8.0	21.04	V

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Test Data (10M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
777.0	16.89	3.3	8.1	21.69	V
782.0	16.92	3.3	8.1	21.72	V
786.9	16.87	3.3	8.0	21.57	V

Test Data (10M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
777.0	16.58	3.3	8.1	21.38	V
782.0	16.56	3.3	8.1	21.36	V
786.9	16.52	3.3	8.0	21.22	V

5.9.12 Cat-M Band 26 ERP

Test Data (1.4M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.23	3.3	6.9	21.83	V
831.5	18.40	3.4	6.9	21.90	V
849.0	18.36	3.4	6.9	21.86	V

Test Data (1.4M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	17.12	3.3	6.9	20.72	V
831.5	17.30	3.4	6.9	20.80	V
849.0	17.27	3.4	6.9	20.77	V

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Test Data (3M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.53	3.3	6.9	22.13	V
831.5	18.47	3.4	6.9	21.97	V
849.0	18.56	3.4	6.9	22.06	V

Test Data (3M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	17.12	3.3	6.9	20.72	V
831.5	17.16	3.4	6.9	20.66	V
849.0	17.31	3.4	6.9	20.81	V

Test Data (5M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.25	3.3	6.9	21.85	V
831.5	18.27	3.4	6.9	21.77	V
849.0	18.49	3.4	6.9	21.99	V

Test Data (5M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	16.93	3.3	6.9	20.53	V
831.5	17.19	3.4	6.9	20.69	V
849.0	17.18	3.4	6.9	20.68	V

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Test Data (10M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.43	3.3	6.9	22.03	V
831.5	18.37	3.4	6.9	21.87	V
849.0	18.44	3.4	6.9	21.94	V

Test Data (10M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	17.18	3.3	6.9	20.78	V
831.5	17.36	3.4	6.9	20.86	V
849.0	17.09	3.4	6.9	20.59	V

Test Data (15M QPSK Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	18.28	3.3	6.9	21.88	V
831.5	18.43	3.4	6.9	21.93	V
849.0	18.48	3.4	6.9	21.98	V

Test Data (15M 16QAM Mode)

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
814.0	17.11	3.3	6.9	20.71	V
831.5	17.16	3.4	6.9	20.66	V
849.0	17.29	3.4	6.9	20.79	V

Annex A EUT Photos

See the document "AT Plus 4E-External Photos".

See the document "AT Plus 4E-Internal Photos".

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End Of Report*****