Testing and Certification

TEST REPORT

FCC LTE B14 Test for SM-A376U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2512-FC013

DATE OF ISSUE
December 15, 2025

Tested by
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TEST REPORT

REPORT NO.
HCT-RF-2512-FC013

DATE OF ISSUE
December 15, 2025

Additional Model
SM-A376U1, SM-S376V

Applicant	SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-A376U
Date of Test	October 29, 2025 ~ December 15, 2025
FCC ID	A3LSMA376U
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
Test Standard Used	FCC Rule Part: § 90
Test Results	PASS

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REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	December 15, 2025	Initial Release

Notice

Content
The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a) The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***. When confirmation of authenticity of this test report is required, please contact www.hct.co.kr The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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CONTENTS

1. GENERAL INFORMATION 5
1.1 MAXIMUM OUTPUT POWER 6
2. INTRODUCTION 7
2.1. DESCRIPTION OF EUT 7
2.2. MEASURING INSTRUMENT CALIBRATION 7
2.3. TEST FACILITY 7
2.4. EQUIPMENT 7
3. DESCRIPTION OF TESTS 8
3.1 TEST PROCEDURE 8
3.2 RADIATED POWER 9
3.3 RADIATED SPURIOUS EMISSIONS 10
3.4 PEAK- TO- AVERAGE RATIO 11
3.5 OCCUPIED BANDWIDTH. 12
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL 13
3.7 BAND EDGE 14
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 16
3.9 WORST CASE(RADIATED TEST) 17
3.10 WORST CASE(CONDUCTED TEST) 18
4. LIST OF TEST EQUIPMENT 19
5. MEASUREMENT UNCERTAINTY 20
6. SUMMARY OF TEST RESULTS 21
7. SAMPLE CALCULATION 22
8. TEST DATA 24
8.1 EFFECTIVE RADIATED POWER 24
8.2 RADIATED SPURIOUS EMISSIONS 25
8.3 PEAK-TO-AVERAGE RATIO 28
8.4 OCCUPIED BANDWIDTH 29
8.5 CONDUCTED SPURIOUS EMISSIONS 30
8.6 BAND EDGE 30
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 31
9. TEST PLOTS 35
10. ANNEX A_ TEST SETUP PHOTO 72

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	SM-A376U
Additional Model(s)	SM-A376U1, SM-S376V
Tx Frequency:	790.5 MHz –795.5 MHz (LTE – BAND 14 (5MHz)) 793.0 MHz (LTE – BAND 14 (10 MHz))
Serial number:	Radiated : R3CY90Z81WA Conducted : R3CY90Z7ZQA
Antenna Information	Please refer to the Antenna Specification document.

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1.1 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band14 (5)	790.5 –795.5	4M53G7D	QPSK	0.047	16.76
		4M51W7D	16QAM	0.045	16.49
		4M52W7D	64QAM	0.038	15.78
		4M52W7D	256QAM	0.018	12.60
LTE – Band14 (10)	793.0	9M01G7D	QPSK	0.051	17.06
		9M01W7D	16QAM	0.042	16.20
		9M01W7D	64QAM	0.033	15.18
		9M04W7D	256QAM	0.016	12.17

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2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea.
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

2.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.
Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.
All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, “American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz”.

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3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

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3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.
The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
   The power is calculated by the following formula;
   $$P_{d\ (dBm)} = P_{g\ (dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$
   Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.
3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.
   These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

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3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW ≥ 3 x RBW
3. No. of sweep points > 2 x span / RBW
4. Detector = Peak
5. Trace mode = Max Hold
6. The trace was allowed to stabilize
7. Test channel : Low/ Middle/ High
8. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
   The spurious emissions is calculated by the following formula;

$$\text{Result}_{(dBm)} = \text{Pg}_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   Where: P_g is the generator output power into the substitution antenna.

   If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

   $\text{EIRP}_{(dBm)} = \text{ERP}_{(dBm)} + 2.15$

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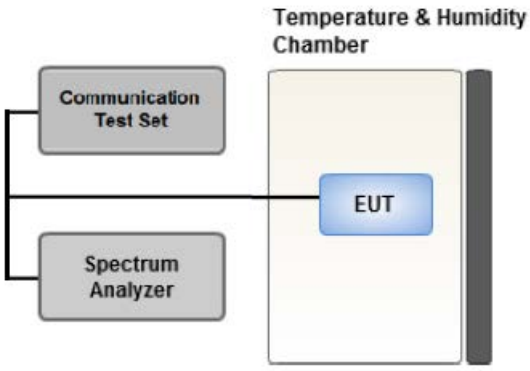
3.4 PEAK- TO- AVERAGE RATIO



Test setup

Test Settings

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
   .- for continuous transmissions, set to 1 ms,
   .- or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

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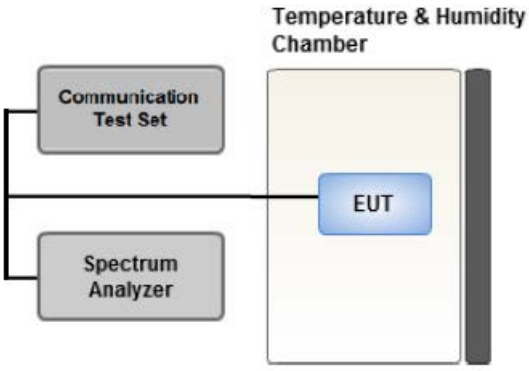
3.5 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.
The EUT makes a call to the communication simulator.
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

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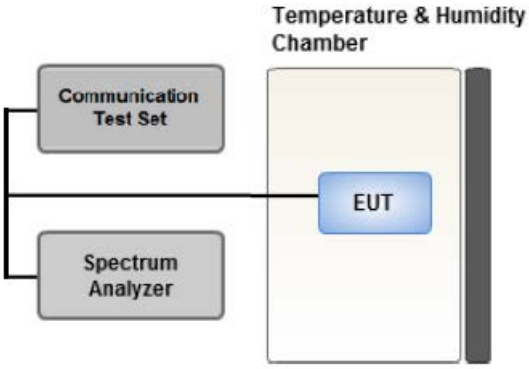
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep = 1001

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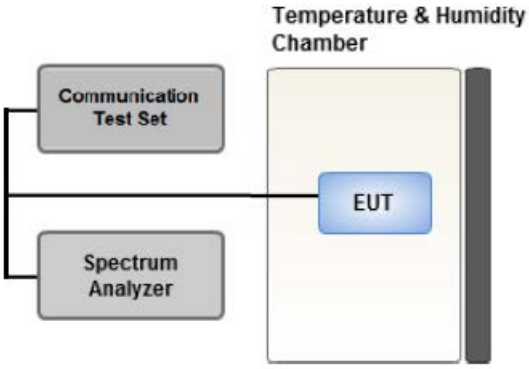
3.7 BAND EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time > (Number of Points) × (Symbol Period)
9. The trace was allowed to stabilize

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Test Notes

§ 90.543(e)

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.
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.

Test Notes

According to FCC 22.917, 24.238, 27.53 specified that 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. 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.
All measurements were done at 2 channels(low and high operational frequency range.)
The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

Where Margin < 1 dB the emission level is either corrected by 10 log(1 MHz/ RB) or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

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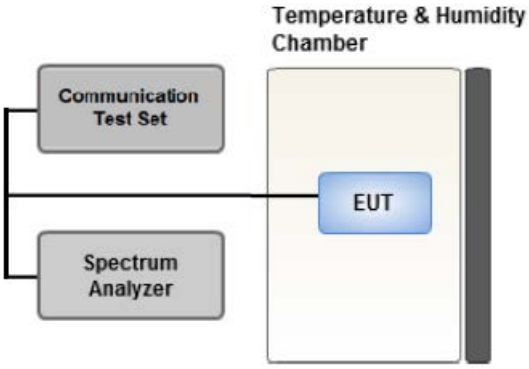
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature:
   The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.
2. Primary Supply Voltage:
   .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
   .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

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3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
  Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
  Therefore, only the worst case(stand-alone) results were reported.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data
- Please refer to the table below.
- SM-A376U & additional models were tested and the worst case results are reported.

(Worst case : SM-A376U)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	QPSK	See Section 8.2		X

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3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- SM-A376U & additional models were tested and the worst case results are reported.

(Worst case : SM-A376U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	5, 10	Mid	Full RB	0
PEAK- TO- AVERAGE RATIO	QPSK, 16QAM, 64QAM, 256QAM	5, 10	Mid	Full RB	0
Band Edge	QPSK	5	Low	1	0
			High	1	24
		10	Mid	1	0
				1	49
		5	Low, High	Full RB	0
		10	Mid	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	5	Low, Mid, High	1	0
		10	Mid	1	0

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4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/01/2026	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/01/2026	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/01/2026	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/01/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	10/21/2026	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	07/29/2026	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/14/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/17/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	07/29/2026	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/18/2026	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/22/2026	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. The RF Switching System was not used for testing on its calibration date (12/01/2025). The next due date for calibration has been updated to 12/01/2026.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5-2017.

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5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	**Expanded Uncertainty (±kHz)**
Occupied Bandwidth	95 (Confidence level about 95 %, *k*=2)
Frequency stability	28 (Confidence level about 95 %, *k*=2)

Parameter	**Expanded Uncertainty (±kHz)**
Block Edge	0.70 (Confidence level about 95 %, *k*=2)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, *k*=2)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, *k*=2)
Radiated Power	4.74 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.68 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, *k*=2)

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6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 90.543(e)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
On all frequencies between 769-775 MHz and 799-805 MHz.	§ 90.543(e)	< 65 + 10log10 (P[Watts])	PASS (Note2)
Conducted Output Power	§ 2.1046	N/A	PASS Note1
Frequency stability / variation of ambient temperature	§ 2.1055, § 90.539(e)	< 2.5 ppm	PASS

Note:

1. Refer to the SAR report.
2. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance.

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§ 90.542(a)(7)	< 3 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 90.543(e)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS
Undesirable Emissions in the 1559 – 1610 MHz band	§ 2.1053, § 90.543(f)	< -70dBW/MHz EIRP (wideband) < -80dBW EIRP (narrowband)	PASS

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7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

ERP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
2) During the test, the turn table is rotated until the maximum signal is found.
3) Record the field strength meter's level.
4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

EIRP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
2) During the test, the turn table is rotated until the maximum signal is found.
3) Record the field strength meter's level.
4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

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7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W
WCDMA BW = 4.17 MHz
F = Frequency Modulation
9 = Composite Digital Info
W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D
LTE BW = 4.48 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

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8. TEST DATA

8.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
790.5	LTE B14 (5 MHz)	QPSK	-34.64	27.80	-10.05	1.42	H	< 3.00	0.043	16.33	1	0
		16-QAM	-34.88	27.56	-10.05	1.42	H		0.041	16.09		
		64-QAM	-35.45	26.99	-10.05	1.42	H		0.036	15.52		
		256-QAM	-38.59	23.85	-10.05	1.42	H		0.017	12.38		
793.0		QPSK	-34.35	28.21	-10.05	1.42	H		0.047	16.74	1	0
		16-QAM	-34.60	27.96	-10.05	1.42	H		0.045	16.49		
		64-QAM	-35.31	27.25	-10.05	1.42	H		0.038	15.78		
		256-QAM	-38.49	24.07	-10.05	1.42	H		0.018	12.60		
795.5		QPSK	-34.34	28.23	-10.05	1.42	H		0.047	16.76	1	0
		16-QAM	-34.65	27.92	-10.05	1.42	H		0.044	16.45		
		64-QAM	-35.71	26.86	-10.05	1.42	H		0.035	15.39		
		256-QAM	-38.80	23.77	-10.05	1.42	H		0.017	12.30		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
793.0	LTE B14 (10 MHz)	QPSK	-34.03	28.53	-10.05	1.42	H	< 3.00	0.051	17.06	1	25
		16-QAM	-34.89	27.67	-10.05	1.42	H		0.042	16.20		
		64-QAM	-35.91	26.65	-10.05	1.42	H		0.033	15.18		
		256-QAM	-38.92	23.64	-10.05	1.42	H		0.016	12.17		

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8.2 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B14

▣ MODULATION SIGNAL: 5 MHz QPSK

▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
23305 (790.5)	1 581.0	-52.24	8.75	-65.83	1.98	V	-59.06	-40.00	1	0
	2 371.5	-51.61	10.43	-63.95	2.47	V	-55.99	-13.00		
	3 162.0	-49.85	10.46	-57.89	2.93	H	-50.36	-13.00		
	3 952.5	-47.76	11.24	-54.35	3.23	H	-46.34	-13.00		
	4 743.0	-56.03	11.68	-59.42	3.59	H	-51.33	-13.00		
23330 (793.0)	1 586.0	-51.98	8.79	-65.68	1.99	H	-58.88	-40.00	1	0
	2 379.0	-51.75	10.43	-63.97	2.46	H	-56.00	-13.00		
	3 172.0	-50.49	10.45	-58.61	2.90	H	-51.06	-13.00		
	3 965.0	-47.97	11.27	-54.61	3.24	H	-46.58	-13.00		
	4 758.0	-54.92	11.63	-58.40	3.62	H	-50.39	-13.00		
23355 (795.5)	1 591.0	-51.90	8.83	-65.71	2.00	V	-58.88	-40.00	1	0
	2 386.5	-52.36	10.43	-64.44	2.46	V	-56.47	-13.00		
	3 182.0	-51.58	10.43	-59.62	2.89	V	-52.08	-13.00		
	3 977.5	-46.81	11.31	-53.51	3.25	H	-45.45	-13.00		
	4 773.0	-55.87	11.59	-59.30	3.65	H	-51.36	-13.00		

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▣ MODE: LTE B14

▣ MODULATION SIGNAL: 10 MHz QPSK

▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
23330 (793.0)	1 586.0	-51.31	8.79	-65.01	1.99	V	-58.21	-40.00	1	25
	2 379.0	-52.54	10.43	-64.76	2.46	H	-56.79	-13.00		
	3 172.0	-51.21	10.45	-59.33	2.90	H	-51.78	-13.00		
	3 965.0	-48.60	11.27	-55.24	3.24	H	-47.21	-13.00		
	4 758.0	-54.32	11.63	-57.80	3.62	V	-49.79	-13.00		

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1559 MHz ~ 1610 MHz BAND

- ▣ OPERATING FREQUENCY: 790.5 MHz, 793.0 MHz, 795.5 MHz
- ▣ MEASURED OUTPUT POWER: 5 MHz QPSK
- ▣ DISTANCE: 3 meters
- ▣ WIDEBAND EMISSION LIMIT: -70 dBW/ MHz (= -40 dBm/ MHz)

Operating Frequency (MHz)	Measured Frequency (MHz)	EMISSION TYPE	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Margin (dB)
790.5	1577.1	Wide Band	-49.67	8.73	-63.18	1.98	H	-56.43	16.43
793.0	1595.6		-49.70	8.88	-63.65	2.00	V	-56.77	16.77
795.5	1587.0		-49.10	8.81	-62.84	2.00	V	-56.03	16.03

Note:
Since the bandwidth of that Spurious emission is greater than 700 Hz, we applied -70 dBW/MHz according to §90.543(f).

- ▣ OPERATING FREQUENCY: 793.0 MHz
- ▣ MEASURED OUTPUT POWER: 10 MHz QPSK
- ▣ DISTANCE: 3 meters
- ▣ WIDEBAND EMISSION LIMIT: -70 dBW/ MHz (= -40 dBm/ MHz)

Operating Frequency (MHz)	Measured Frequency (MHz)	EMISSION TYPE	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Margin (dB)
793.0	1568.2	Wide Band	-49.34	8.65	-62.64	1.95	V	-55.94	15.94

Note:
Since the bandwidth of that Spurious emission is greater than 700 Hz, we applied -70 dBW/MHz according to §90.543(f).

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8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
14	5 MHz	793.0	QPSK	25	0	5.48	13.00
			16-QAM			6.05	
			64-QAM			6.18	
			256-QAM			6.26	
	10 MHz		QPSK	50		5.50	
			16-QAM			5.97	
			64-QAM			6.10	
			256-QAM			6.18	

Note:

1. Plots of the EUT's P.A.P.R are shown Page 36 ~ 43
2. P.A.P.R is not required. These values are reported for information only.

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8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
14	5 MHz	793.0	QPSK	25	0	4.5259
			16-QAM			4.5083
			64-QAM			4.5217
			256-QAM			4.5185
	10 MHz		QPSK	50		9.0107
			16-QAM			9.0074
			64-QAM			9.0129
			256-QAM			9.0346

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 44 ~ 51.

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8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
14	5	790.5	3.6990	27.976	-57.935	-29.959	-13.00
		793.0	3.2204	27.976	-58.332	-30.356	
		795.5	6.2413	28.591	-57.879	-29.288	
	10	793.0	3.2304	27.976	-57.718	-29.742	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 52 ~ 55.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor (dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 56 ~ 71.

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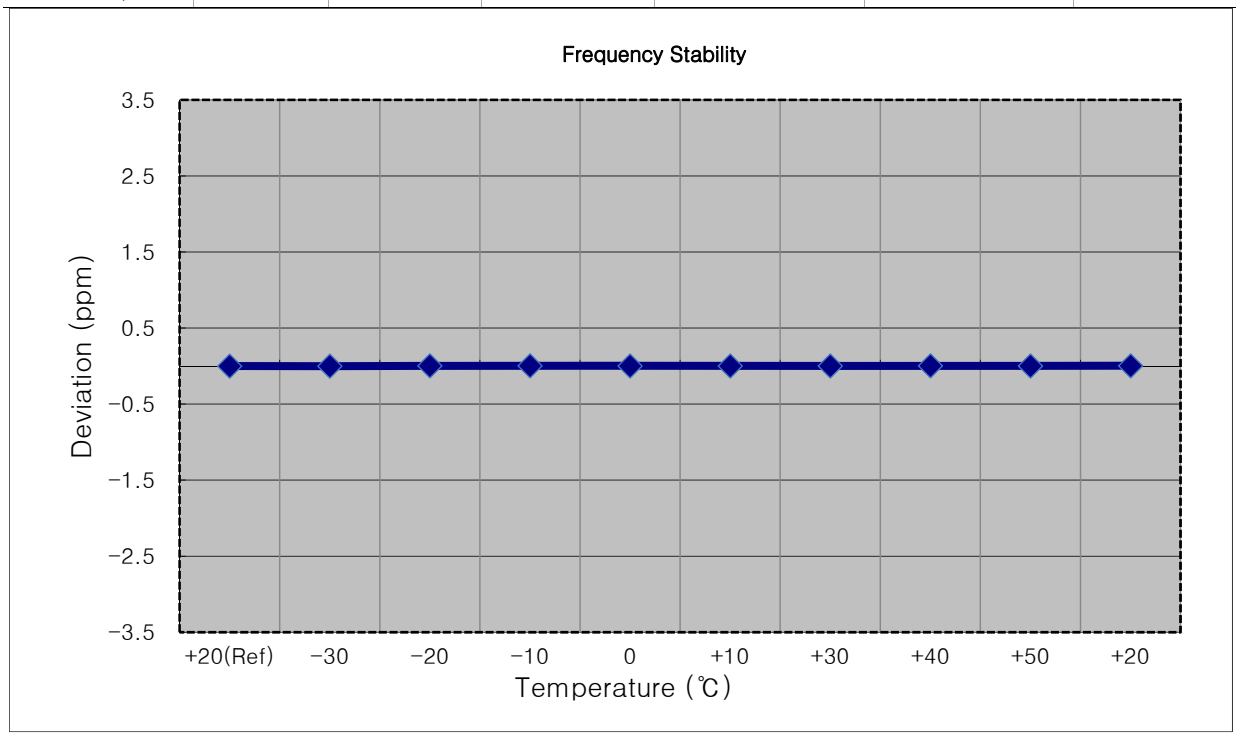
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ MODE: LTE B14
- ▣ OPERATING FREQUENCY: 790,500,000 Hz
- ▣ CHANNEL: 23305 (5 MHz)
- ▣ REFERENCE VOLTAGE: 3.900 VDC
- ▣ DEVIATION LIMIT: 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	790 500 002	0.00	0.000 000	0.0000
100 %		-30	790 500 000	-1.30	0.000 000	-0.0016
100 %		-20	790 500 004	2.40	0.000 000	0.0030
100 %		-10	790 500 004	2.30	0.000 000	0.0029
100 %		0	790 500 003	1.50	0.000 000	0.0019
100 %		+10	790 500 003	1.40	0.000 000	0.0018
100 %		+30	790 500 003	1.80	0.000 000	0.0023
100 %		+40	790 500 004	2.40	0.000 000	0.0030
100 %		+50	790 500 003	1.70	0.000 000	0.0022
Batt. Endpoint	3.400	+20	790 500 004	2.10	0.000 000	0.0027



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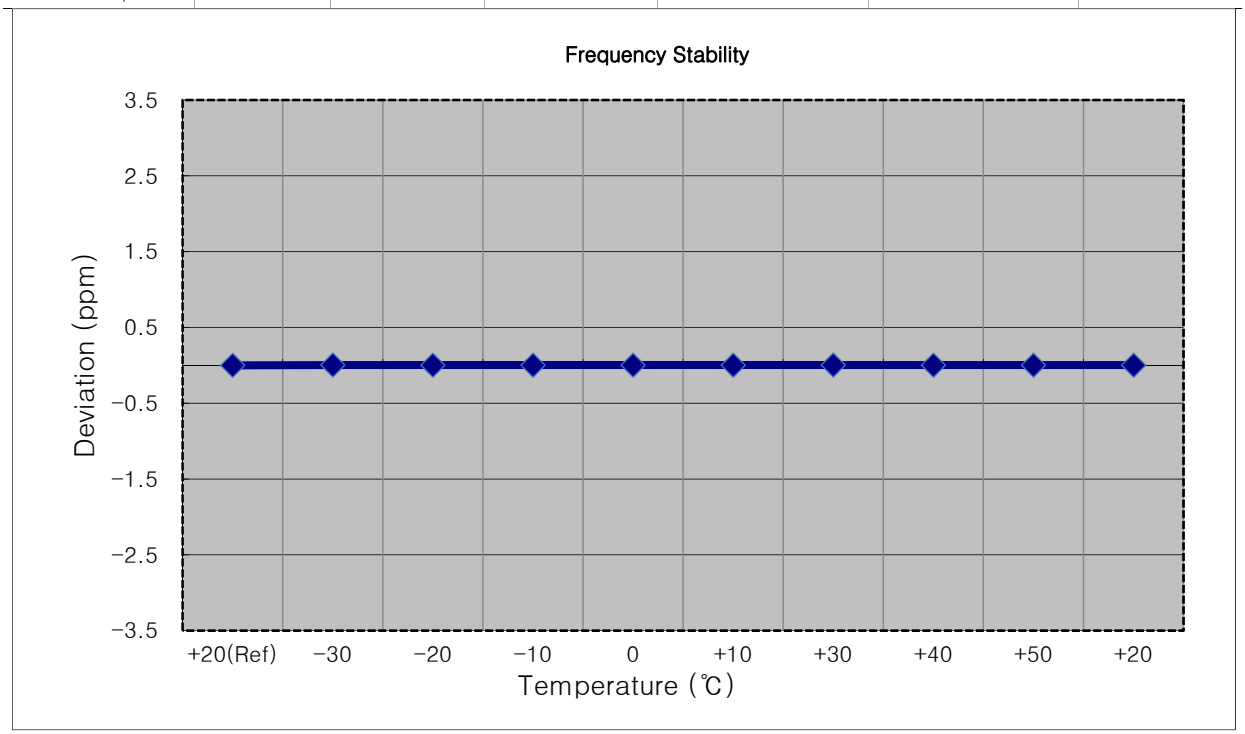
- MODE: LTE B14
- OPERATING FREQUENCY: 793,000,000 Hz
- CHANNEL: 23330 (5 MHz)
- REFERENCE VOLTAGE: 3.900 VDC
- DEVIATION LIMIT: 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	793 000 002	0.00	0.000 000	0.0000
100 %		-30	793 000 006	3.60	0.000 000	0.0045
100 %		-20	793 000 005	2.70	0.000 000	0.0034
100 %		-10	793 000 005	2.50	0.000 000	0.0032
100 %		0	793 000 005	2.80	0.000 000	0.0035
100 %		+10	793 000 005	2.70	0.000 000	0.0034
100 %		+30	793 000 006	3.50	0.000 000	0.0044
100 %		+40	793 000 004	1.60	0.000 000	0.0020
100 %		+50	793 000 004	2.30	0.000 000	0.0029
Batt. Endpoint	3.400	+20	793 000 004	2.30	0.000 000	0.0029



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▣ MODE: LTE B14

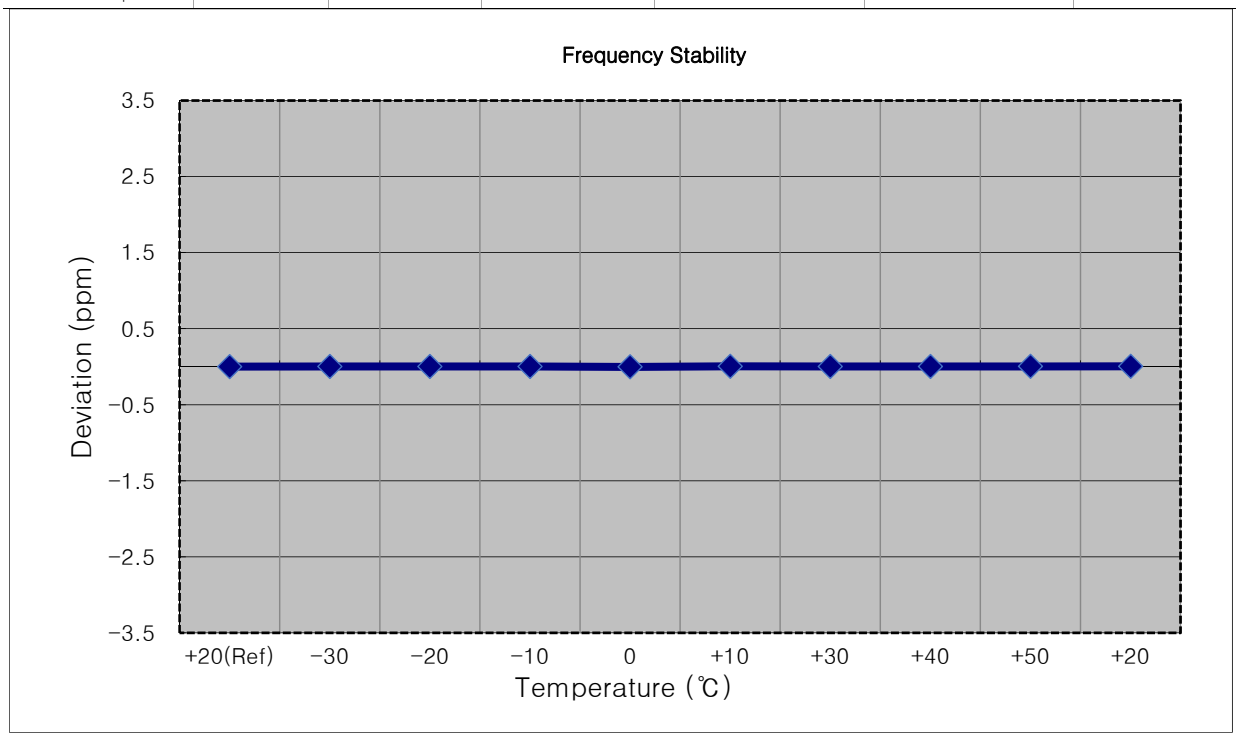
▣ OPERATING FREQUENCY: 795,500,000 Hz

▣ CHANNEL: 23355 (5 MHz)

▣ REFERENCE VOLTAGE: 3.900 VDC

▣ DEVIATION LIMIT: 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	795 500 003	0.00	0.000 000	0.0000
100 %		-30	795 500 005	2.10	0.000 000	0.0026
100 %		-20	795 500 004	1.70	0.000 000	0.0021
100 %		-10	795 500 005	2.40	0.000 000	0.0030
100 %		0	795 500 001	-2.00	0.000 000	-0.0025
100 %		+10	795 500 005	2.50	0.000 000	0.0031
100 %		+30	795 500 004	1.70	0.000 000	0.0021
100 %		+40	795 500 003	0.90	0.000 000	0.0011
100 %		+50	795 500 005	2.90	0.000 000	0.0036
Batt. Endpoint	3.400	+20	795 500 005	2.80	0.000 000	0.0035



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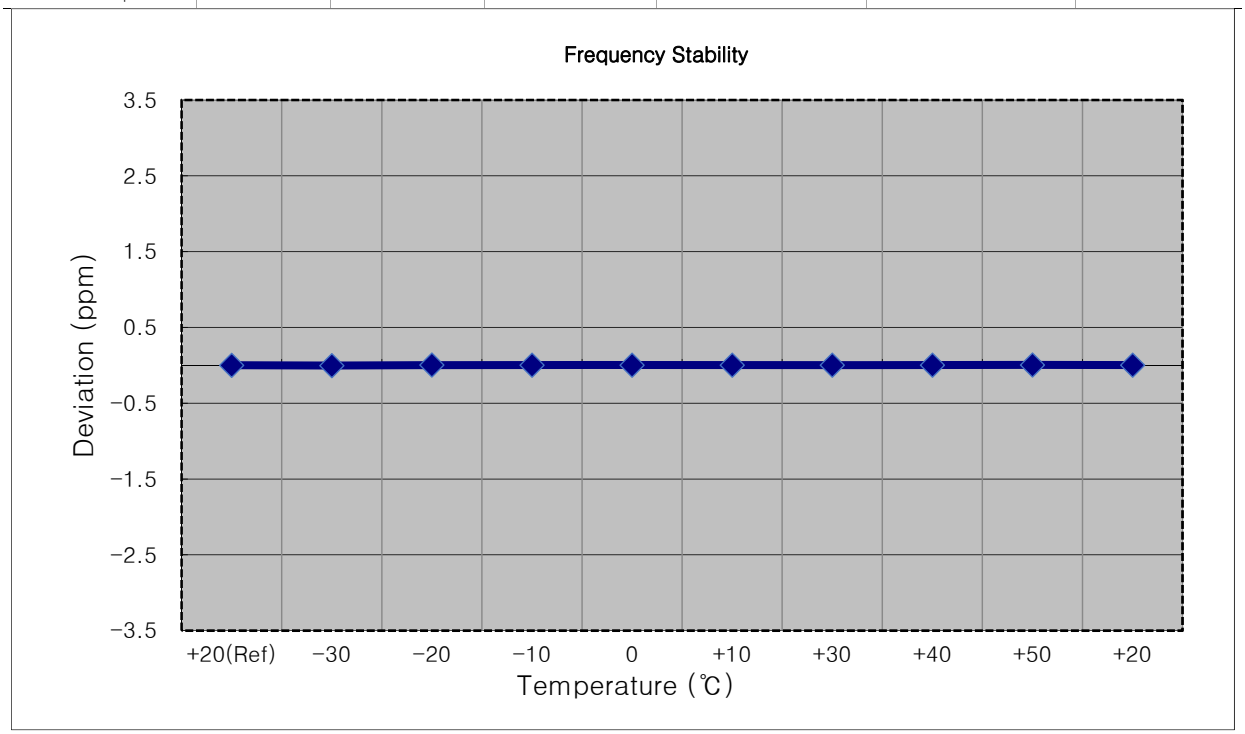
- MODE: LTE B14
- OPERATING FREQUENCY: 793,000,000 Hz
- CHANNEL: 23330 (10 MHz)
- REFERENCE VOLTAGE: 3.900 VDC
- DEVIATION LIMIT: 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.900	+20(Ref)	793 000 002	0.00	0.000 000	0.0000
100 %		-30	793 000 000	-2.20	0.000 000	-0.0028
100 %		-20	793 000 006	3.50	0.000 000	0.0044
100 %		-10	793 000 005	2.50	0.000 000	0.0032
100 %		0	793 000 005	2.60	0.000 000	0.0033
100 %		+10	793 000 005	2.50	0.000 000	0.0032
100 %		+30	793 000 005	2.60	0.000 000	0.0033
100 %		+40	793 000 005	2.60	0.000 000	0.0033
100 %		+50	793 000 005	3.00	0.000 000	0.0038
Batt. Endpoint	3.400	+20	793 000 005	2.40	0.000 000	0.0030



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9. TEST PLOTS

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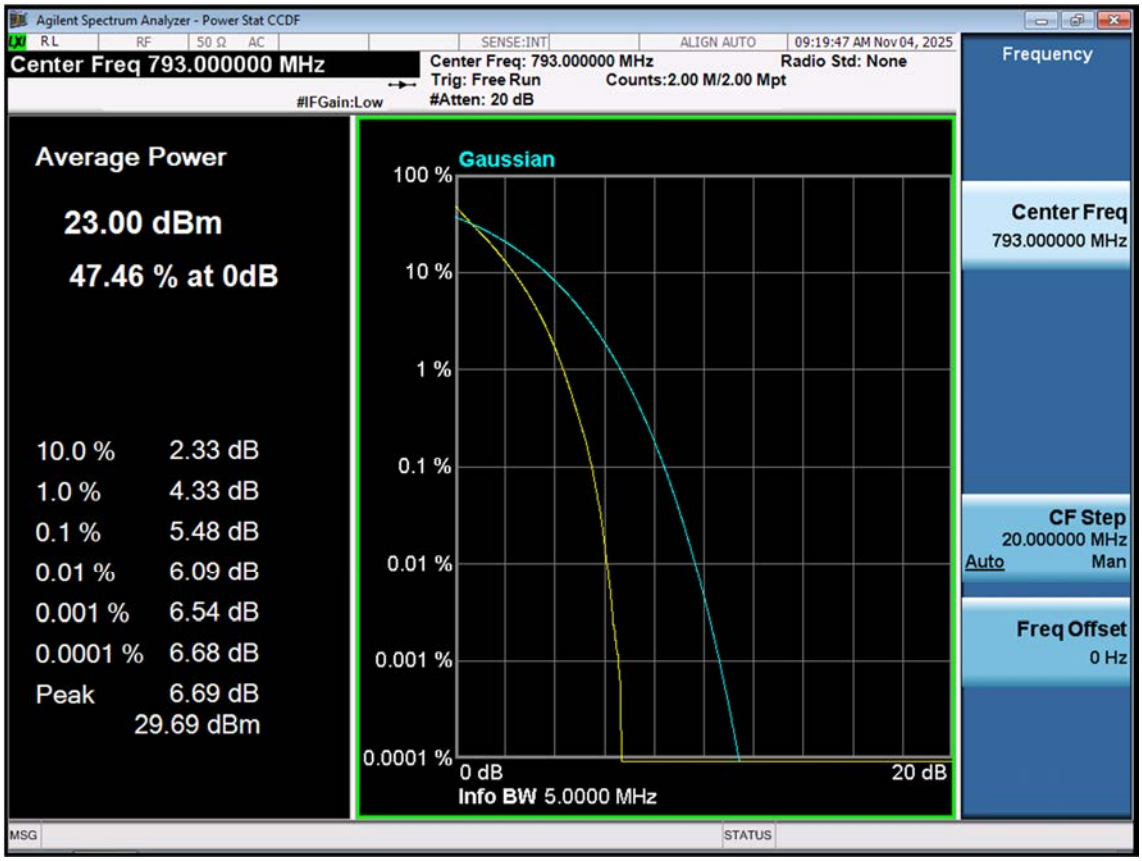
LTE B14_5 M_PAR_Mid_QPSK_FullRB



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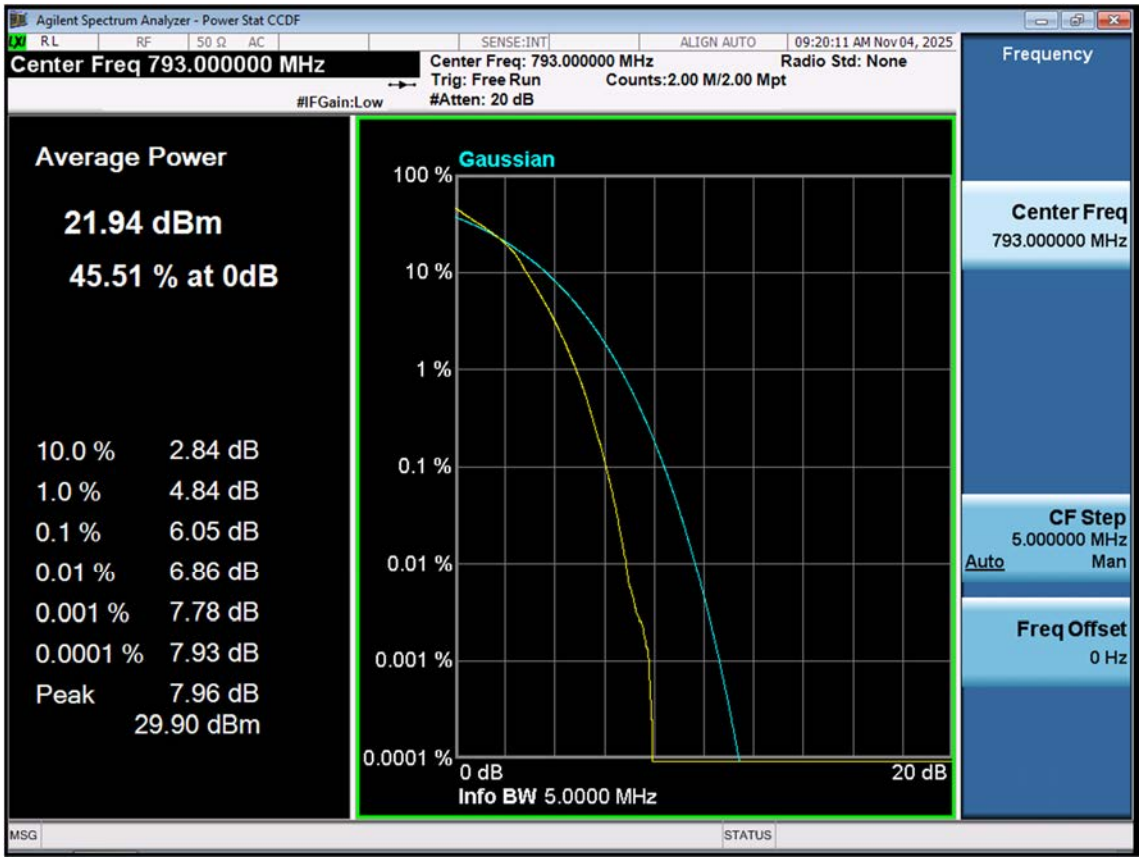
LTE B14_5 M_PAR_Mid_16QAM_FullRB



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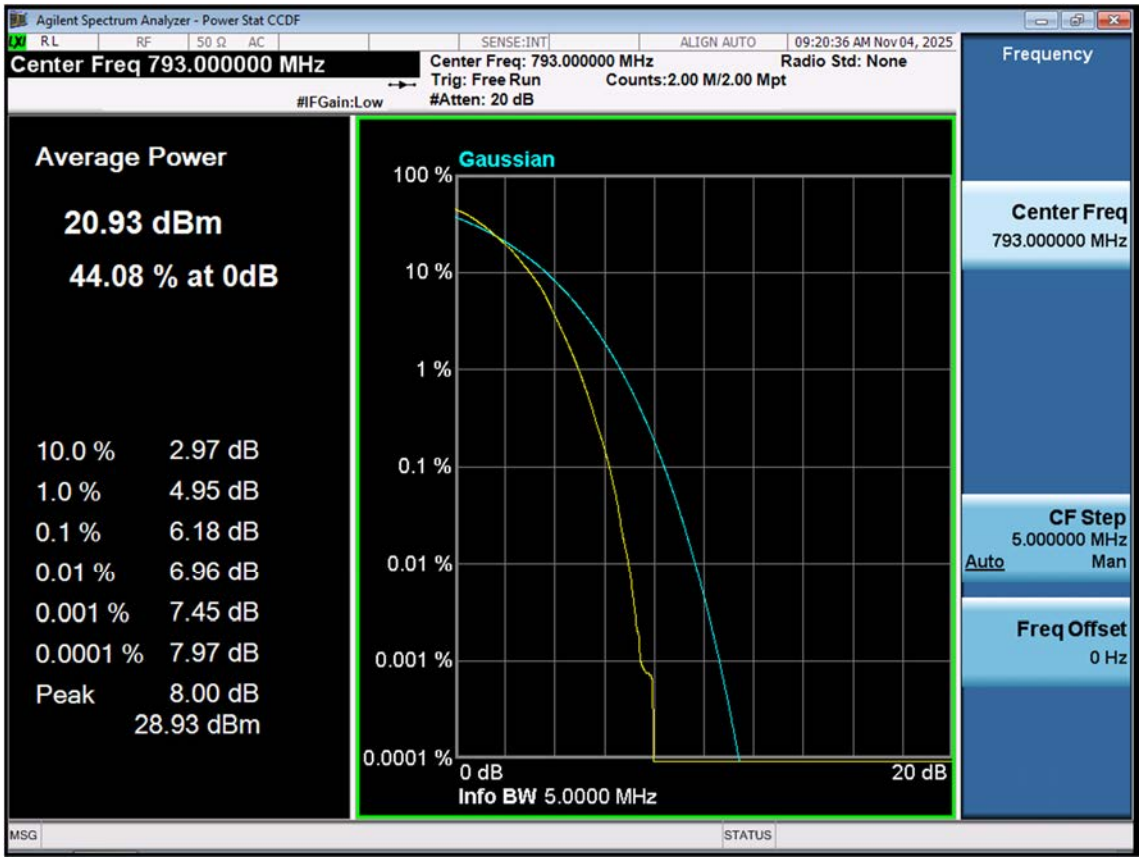
LTE B14_5 M_PAR_Mid_64QAM_FullRB



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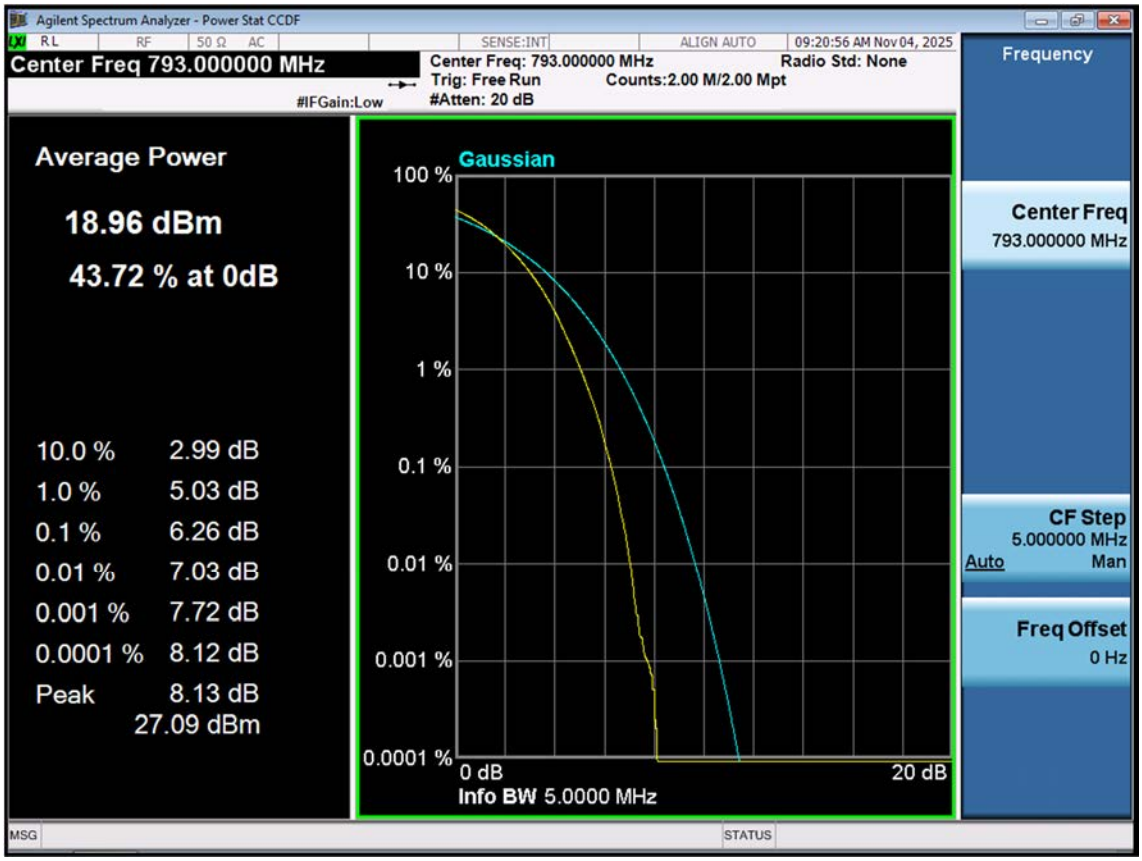
LTE B14_5 M_PAR_Mid_256QAM_FullRB



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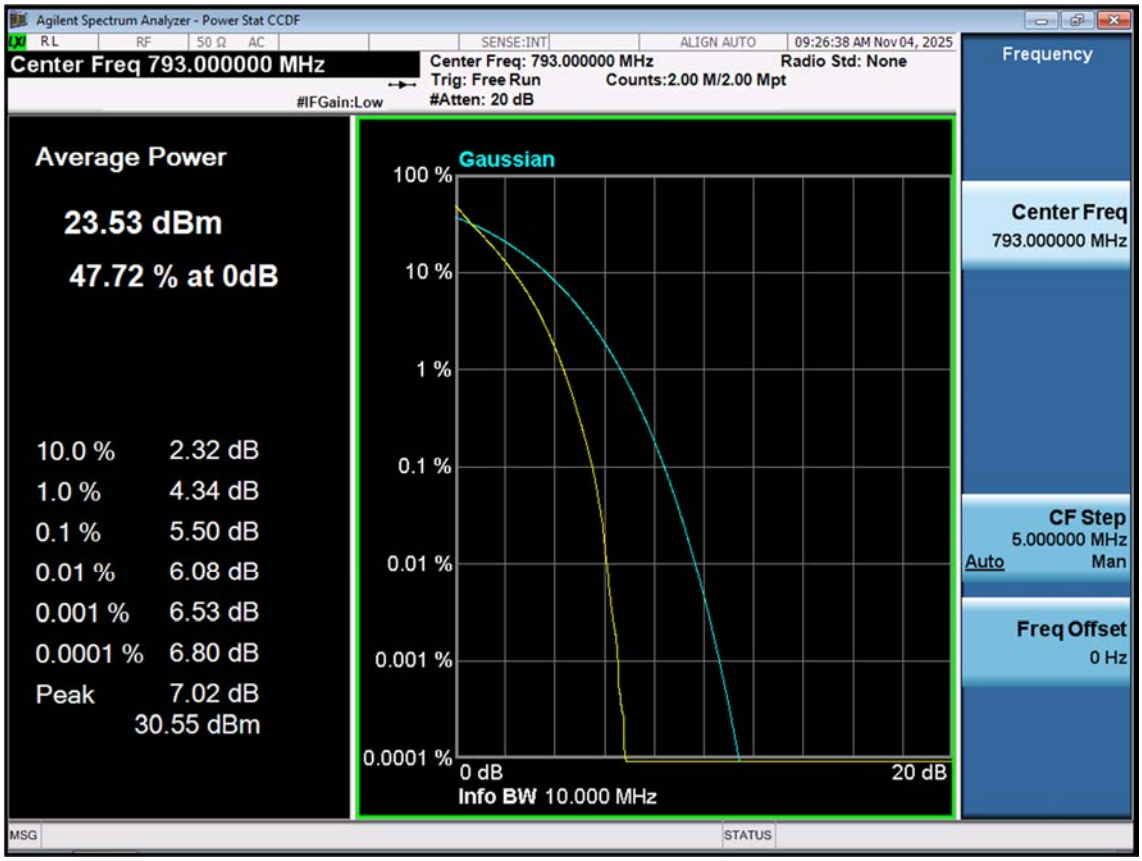
LTE B14_10 M_PAR_Mid_QPSK_FullRB



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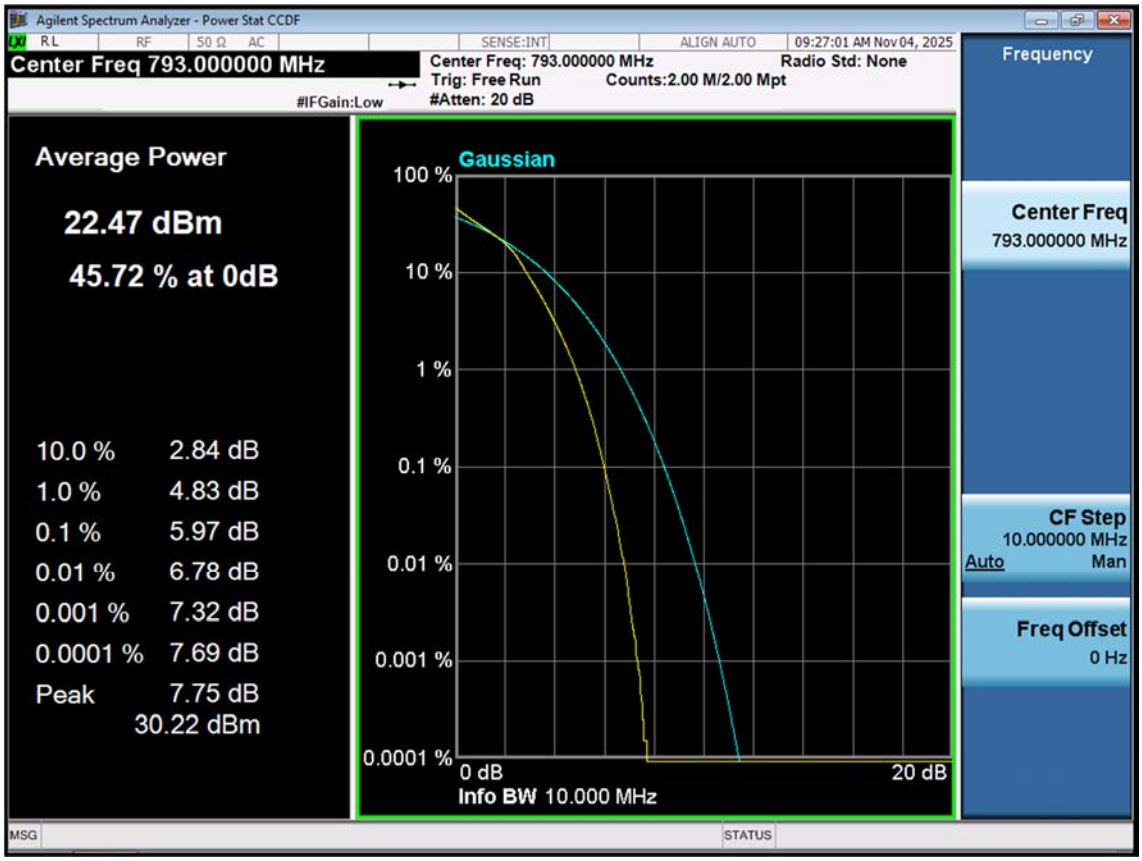
LTE B14_10 M_PAR_Mid_16QAM_FullRB



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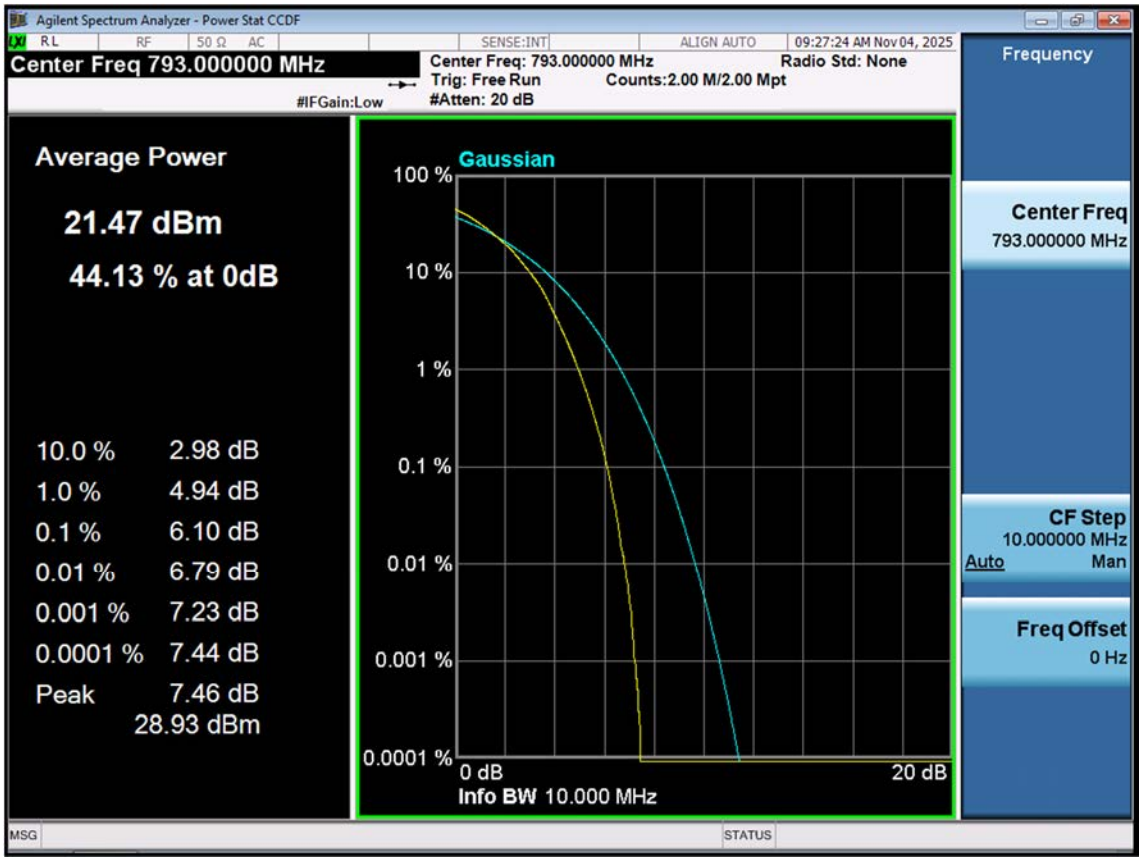
LTE B14_10 M_PAR_Mid_64QAM_FullRB



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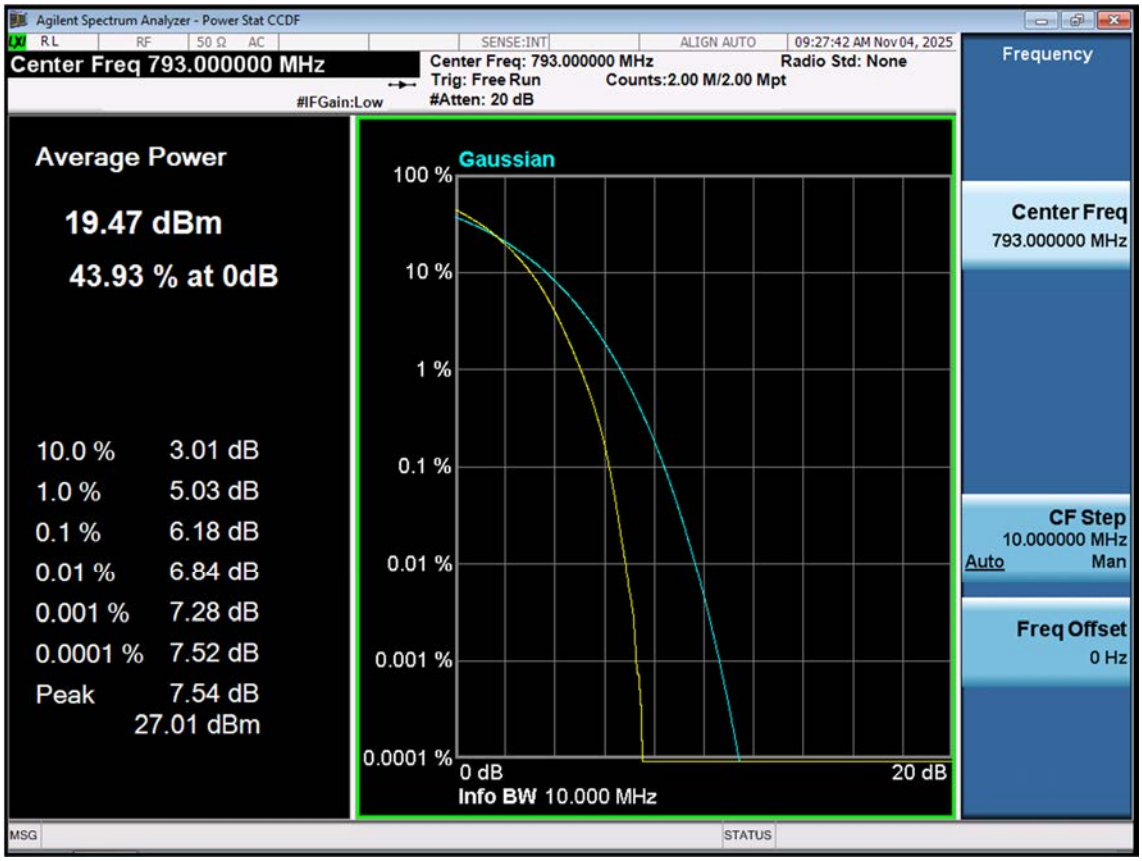
LTE B14_10 M_PAR_Mid_256QAM_FullRB



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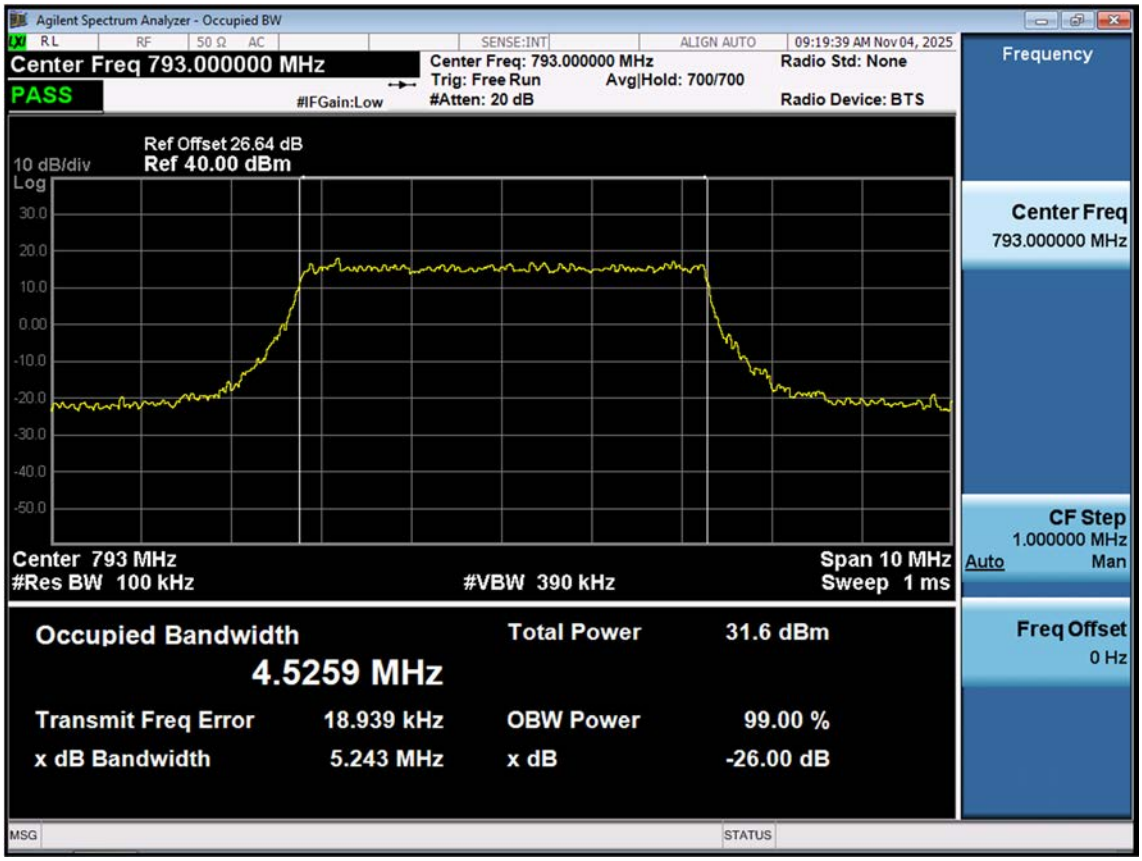
LTE B14_5 M_OBW_Mid_QPSK_FullRB



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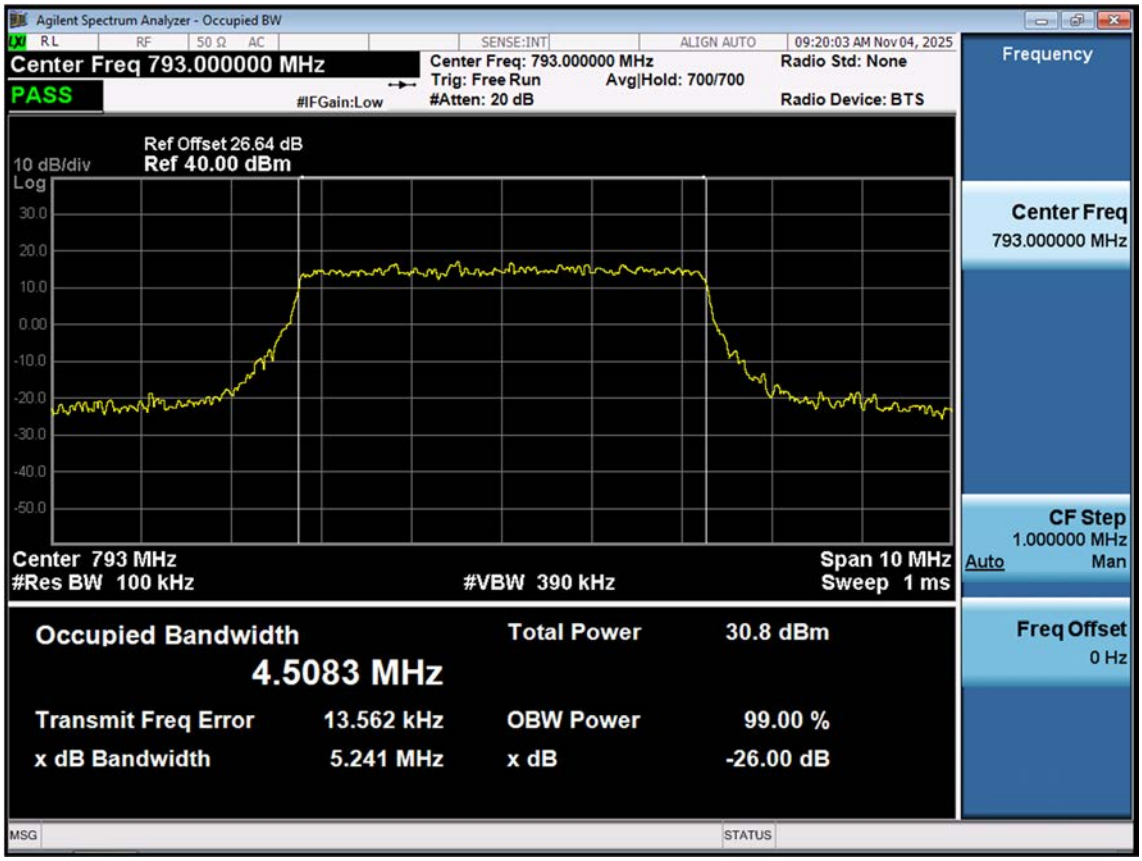

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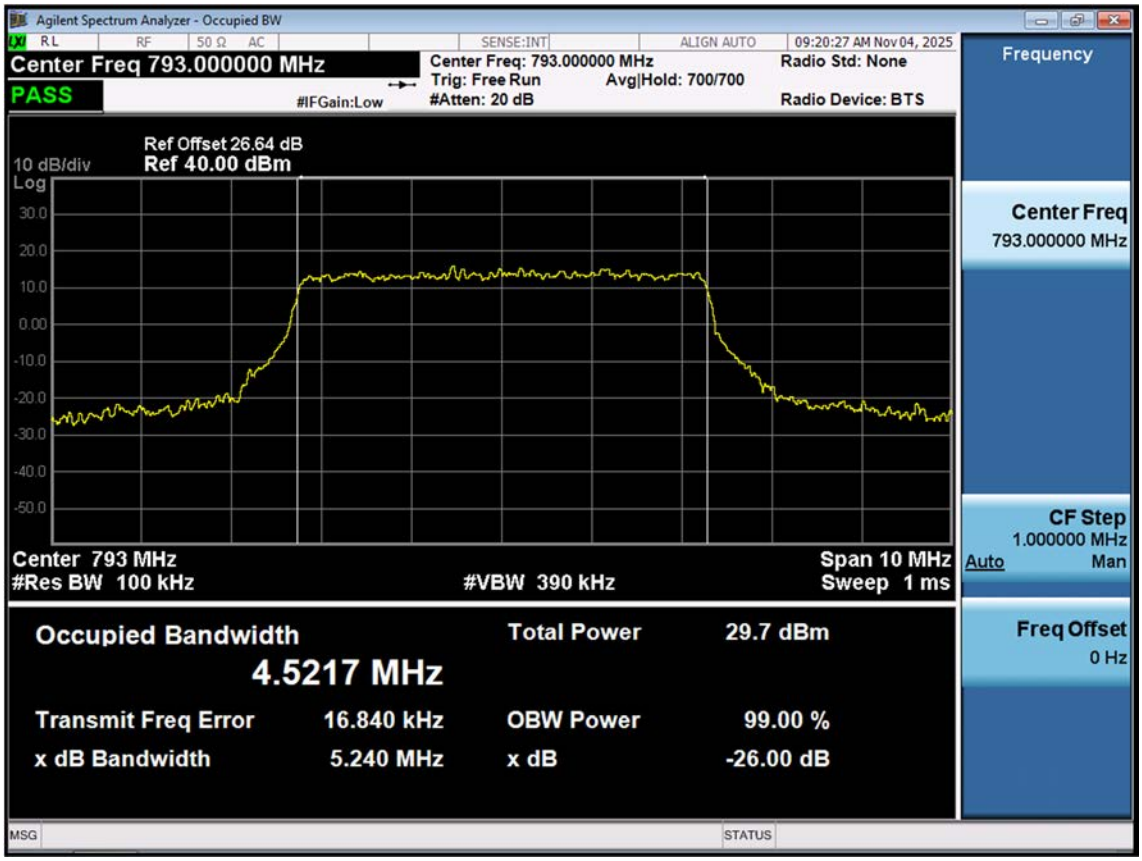

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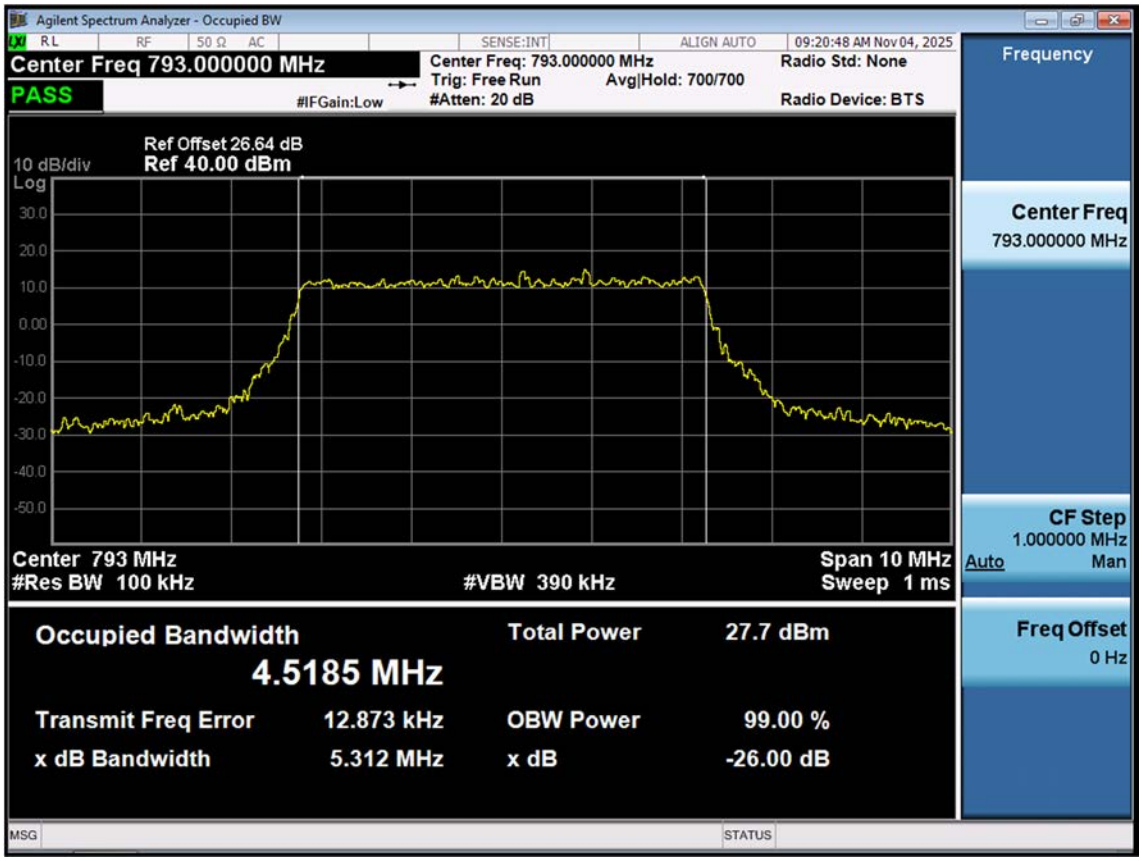
LTE B14_5 M_OBW_Mid_256QAM_FullRB



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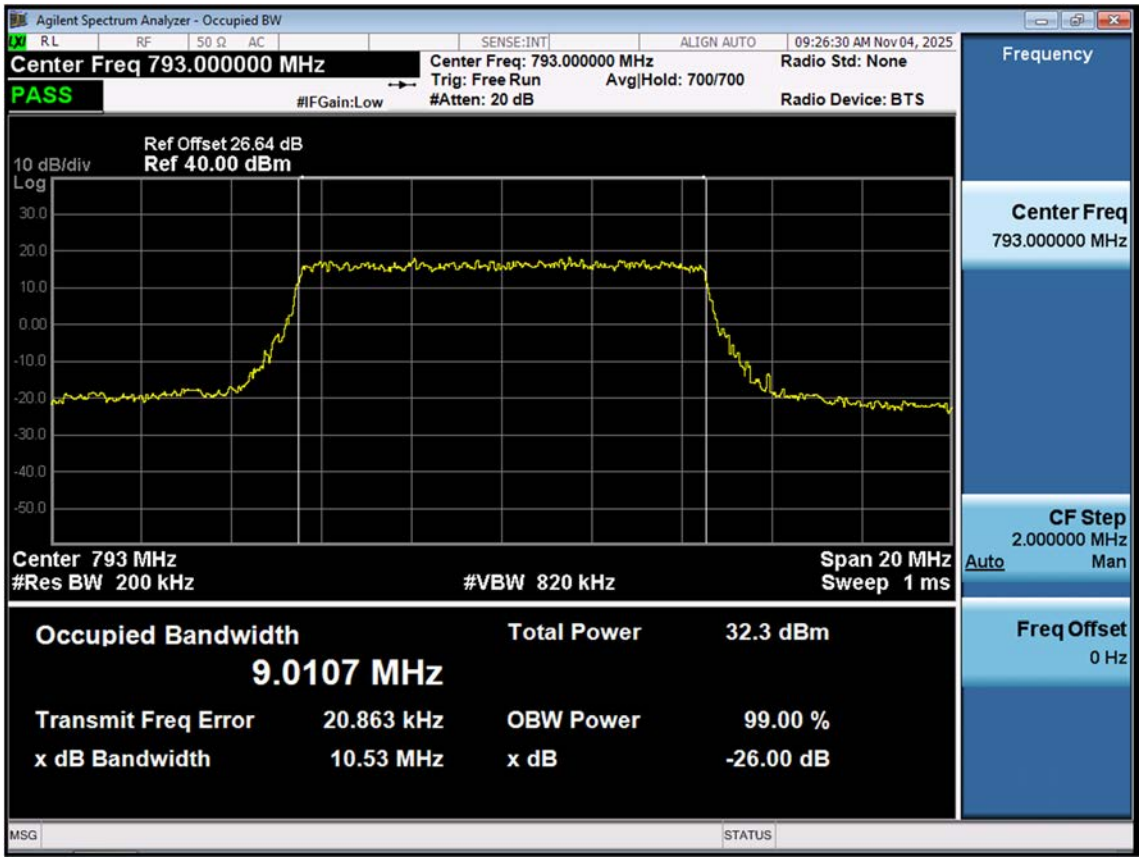

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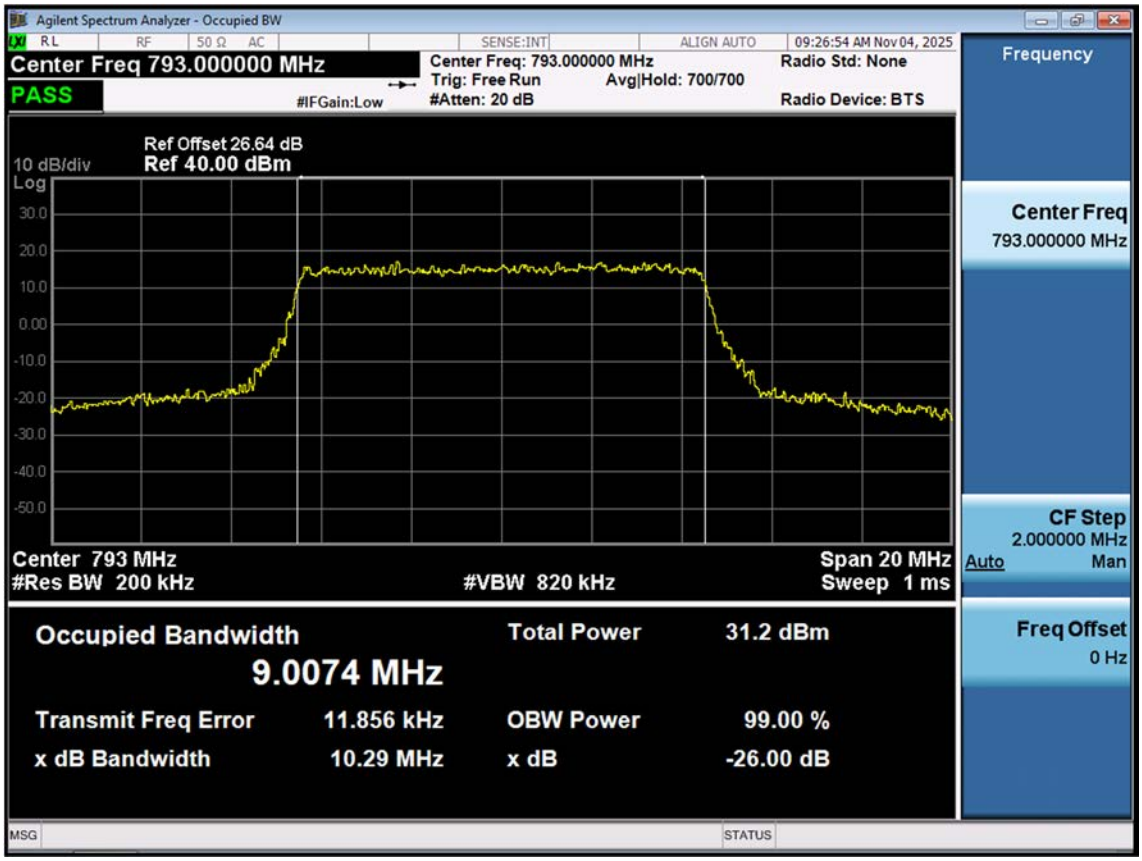

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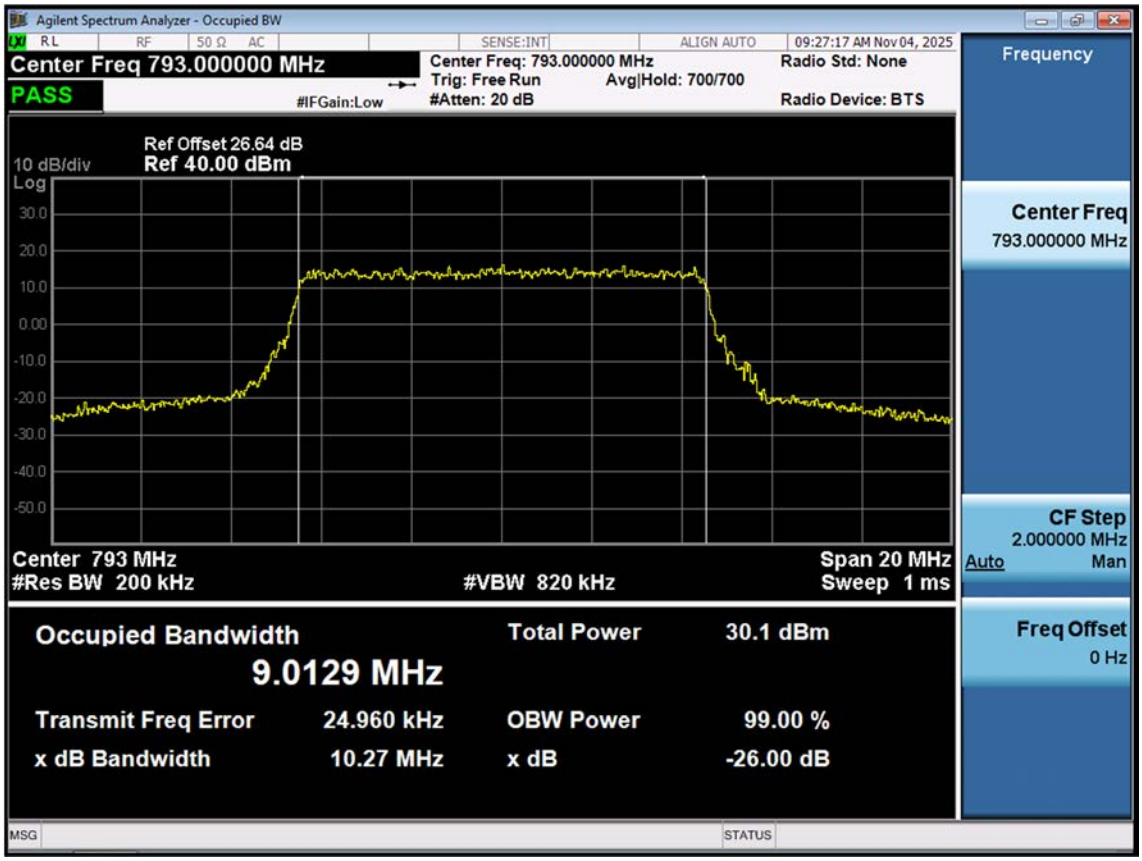

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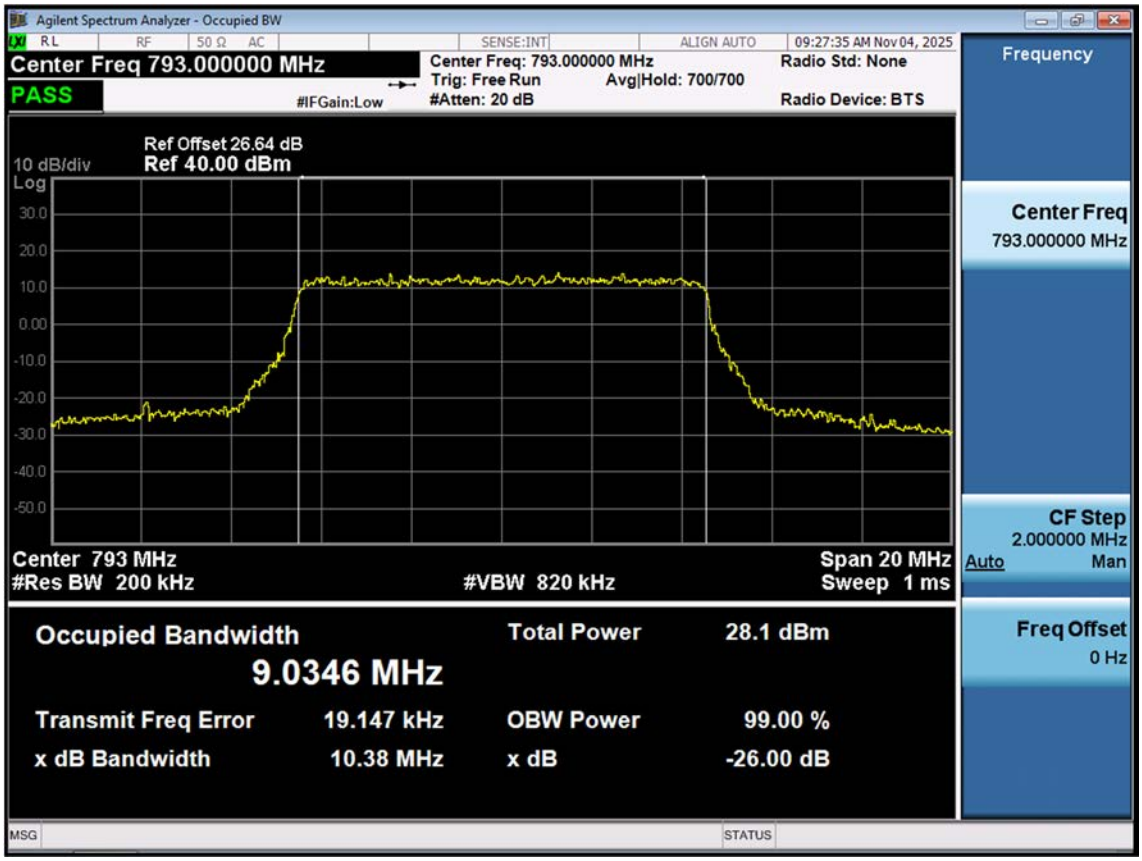
LTE B14_10 M_OBW_Mid_256QAM_FullRB



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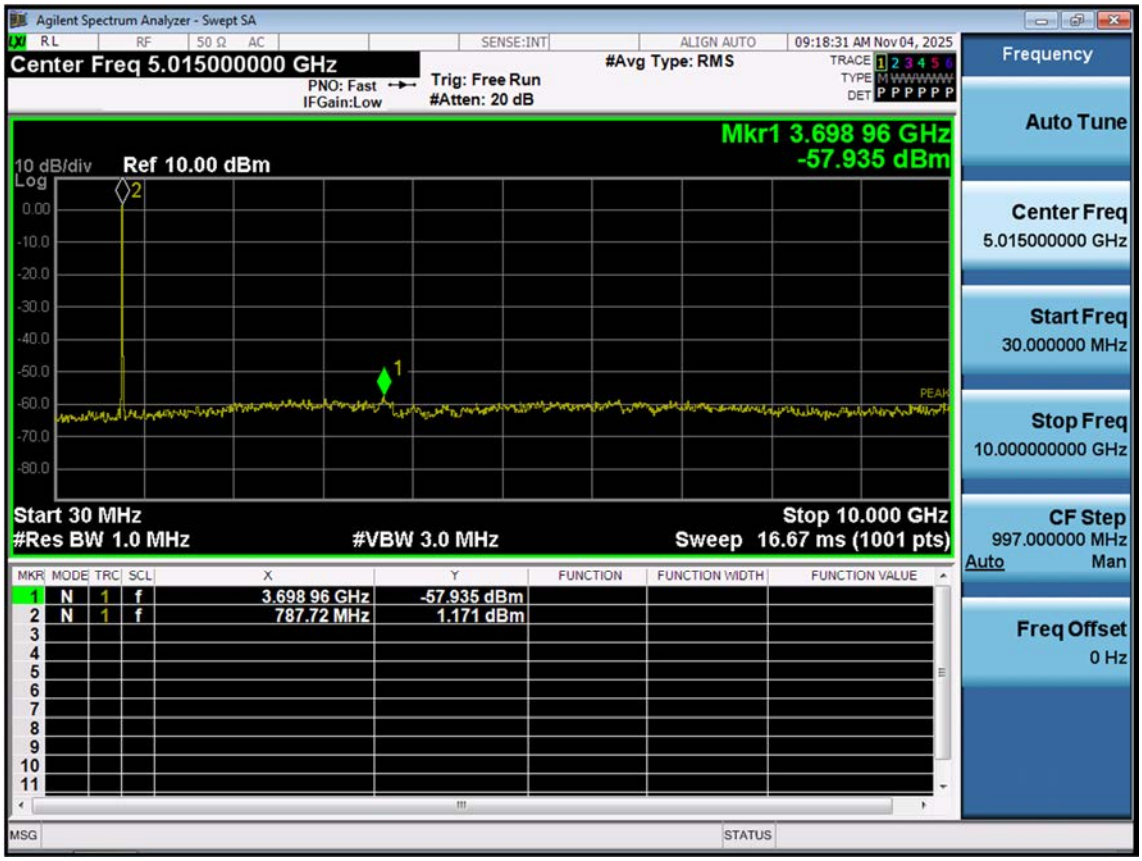
LTE B14_5 M_Conducted Spurious Emissions(30 M-10 G)_Low_QPSK_1RB



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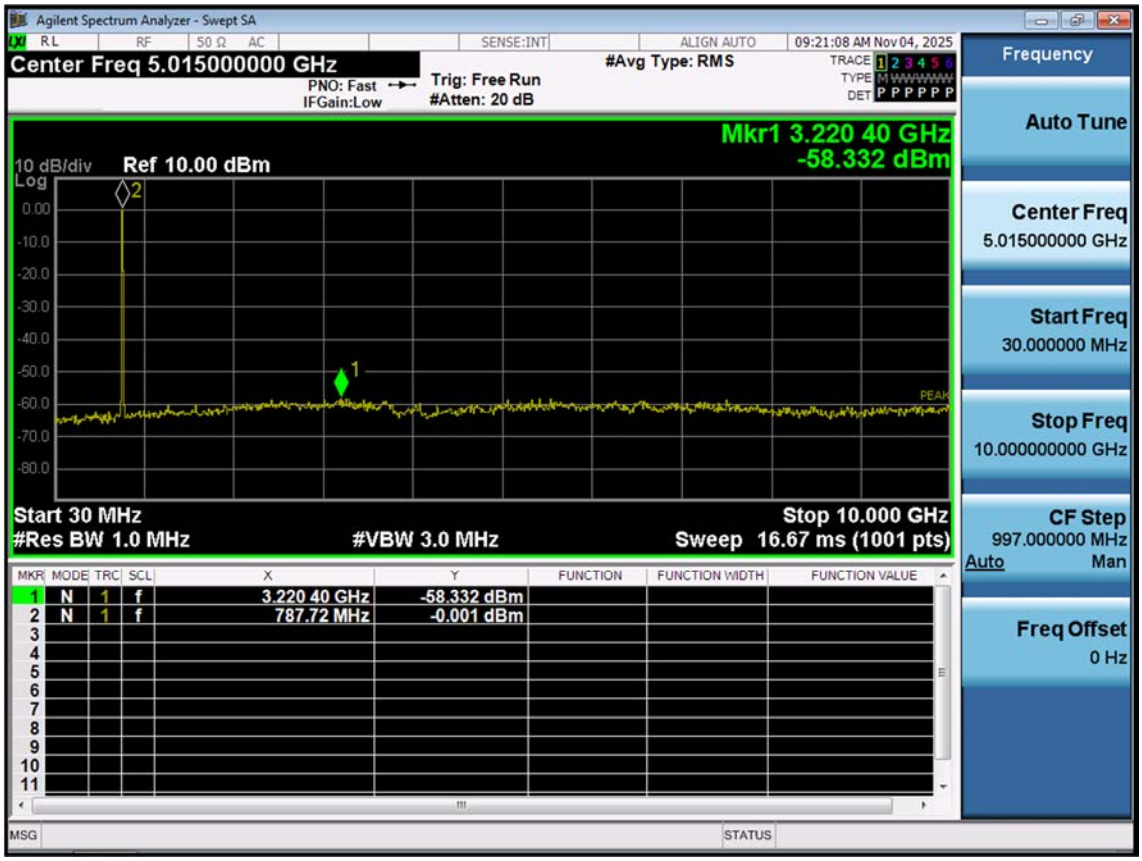
LTE B14_5 M_Conducted Spurious Emissions(30 M-10 G)_Mid_QPSK_1RB



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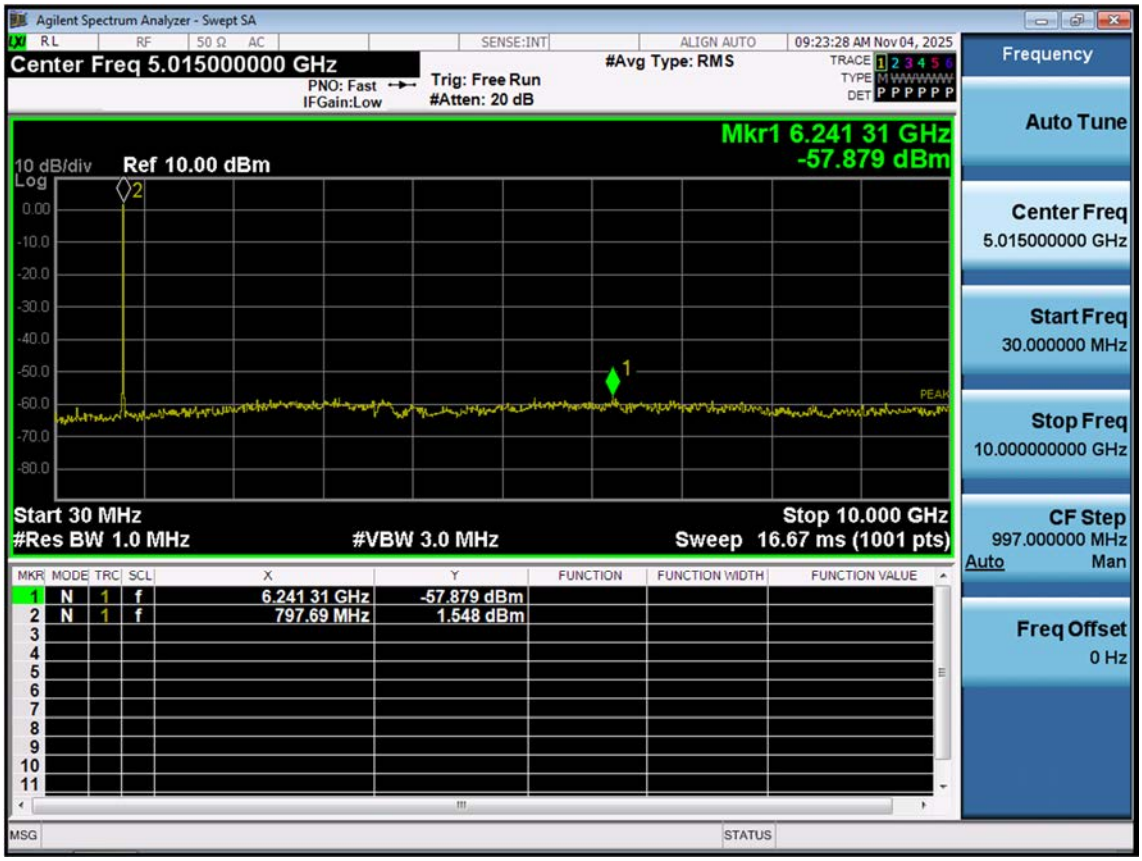
LTE B14_5 M_Conducted Spurious Emissions(30 M-10 G)_High_QPSK_1RB



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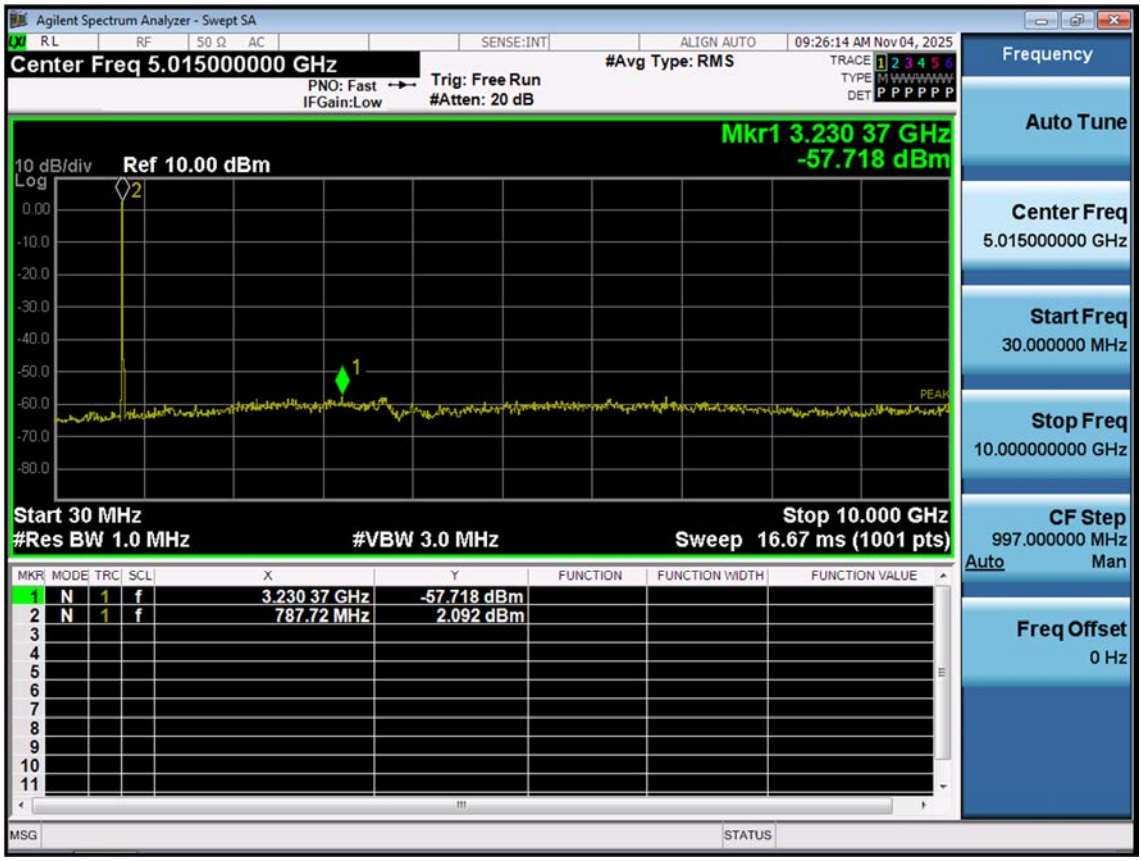
LTE B14_10 M_Conducted Spurious Emissions(30 M-10 G)_Low_QPSK_1RB



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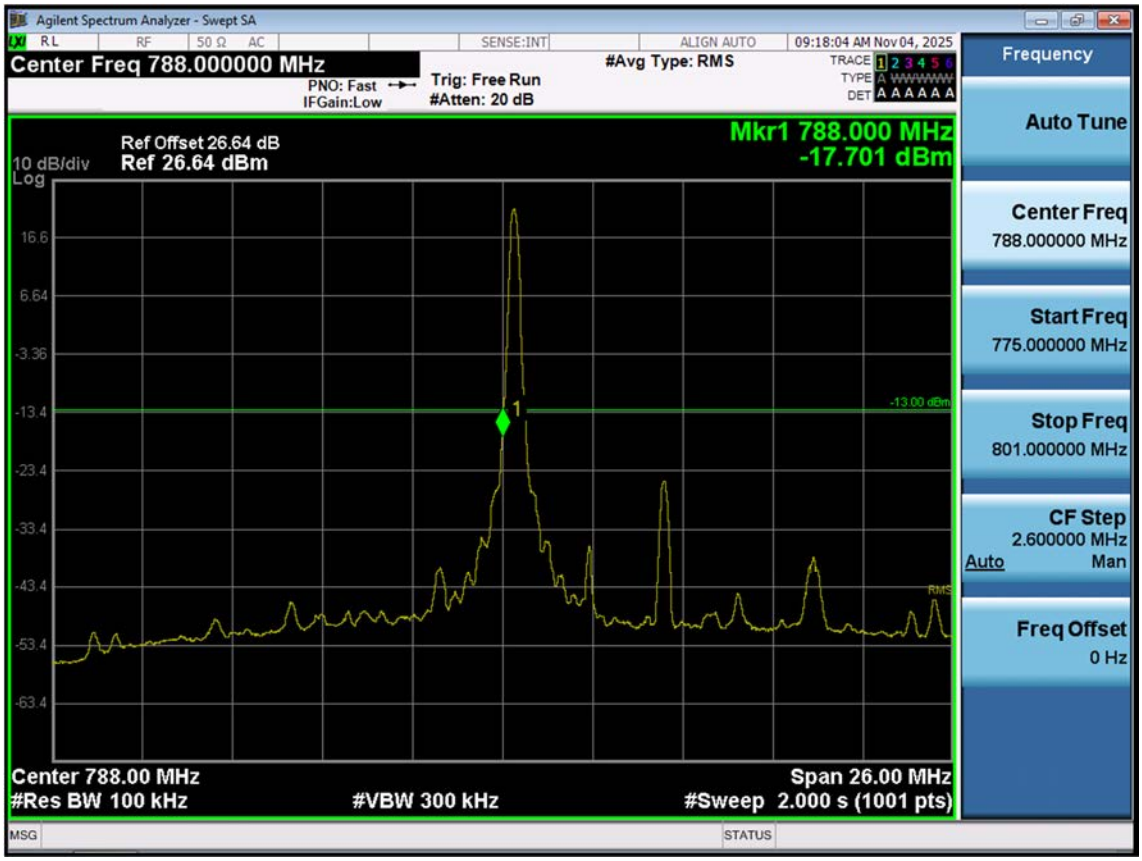
LTE B14_5 M_Band Edge_Low_QPSK_1RB



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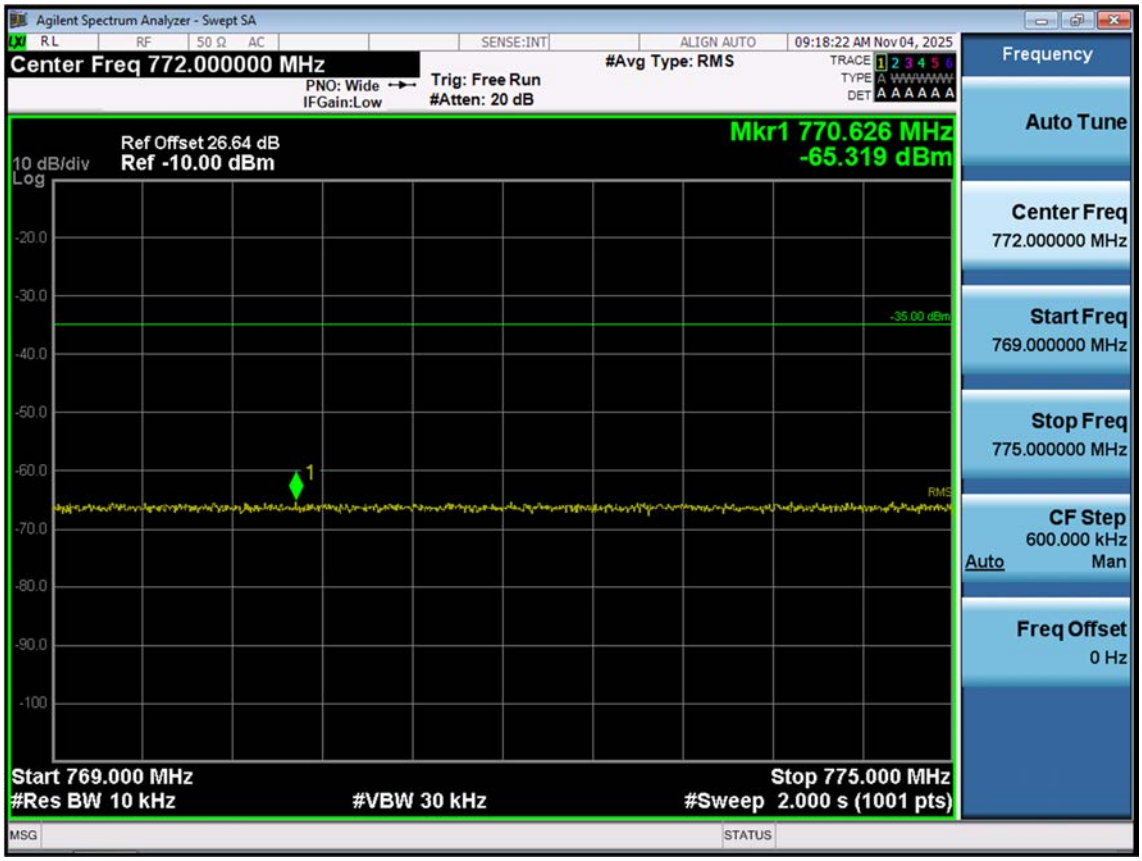
LTE B14_5 M_Band Edge_Low_QPSK_FullRB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_5 M_Extended Band Edge_Low_QPSK_1RB



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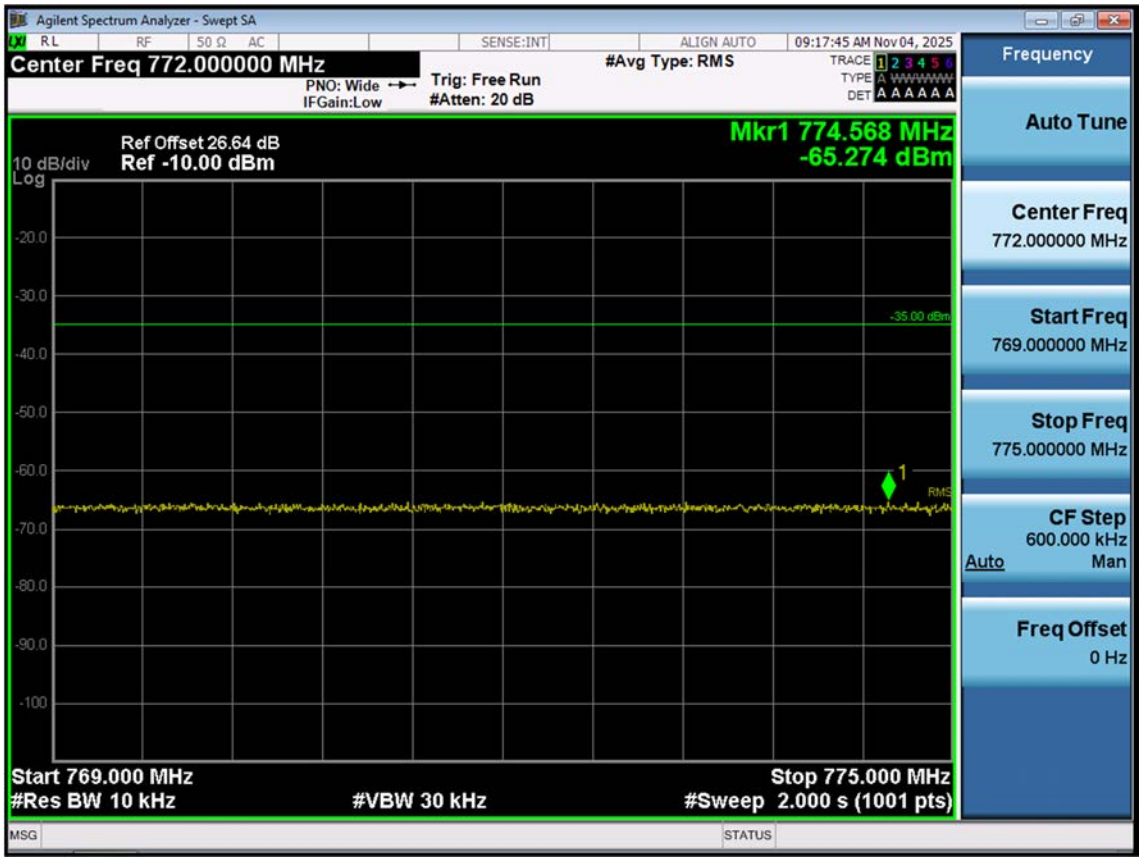
LTE B14_5 M_Extended Band Edge_Low_QPSK_FullRB



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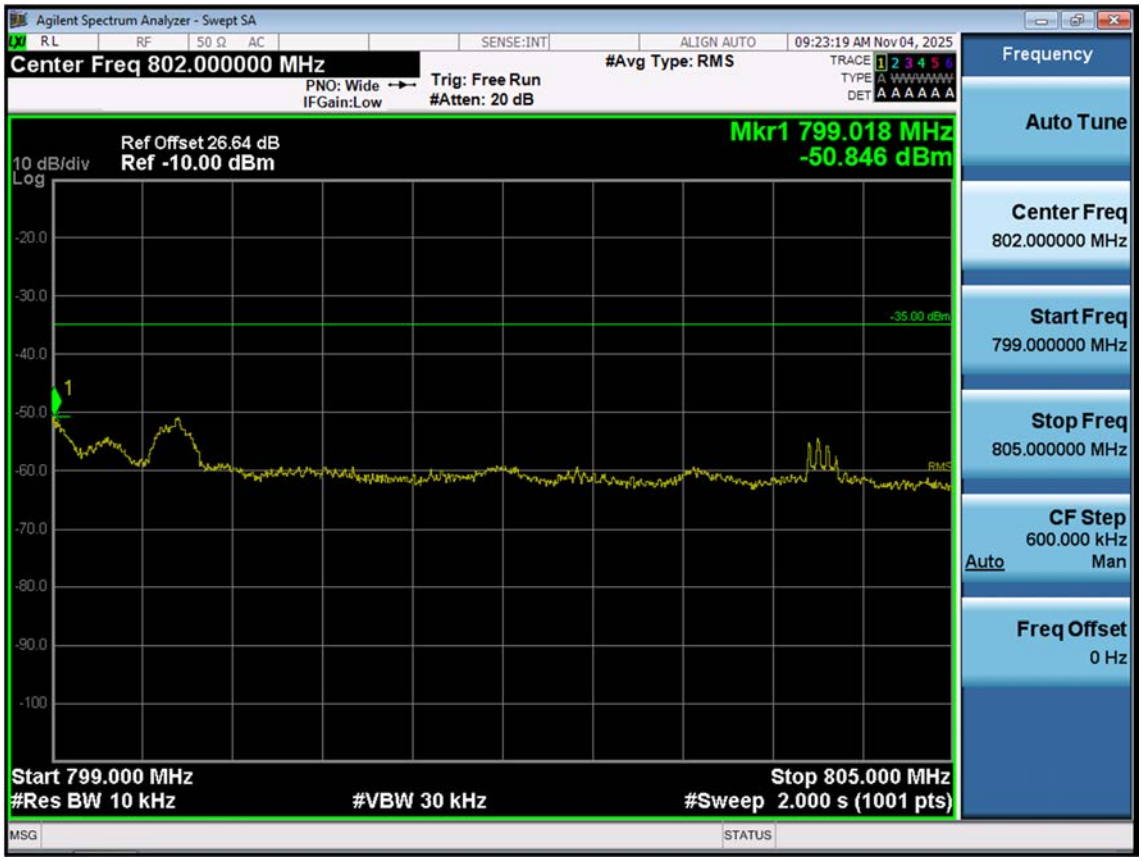
LTE B14_5 M_Band Edge_High_QPSK_1RB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_5 M_Band Edge_High_QPSK_FullRB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_5 M_Extended Band Edge_High_QPSK_1RB



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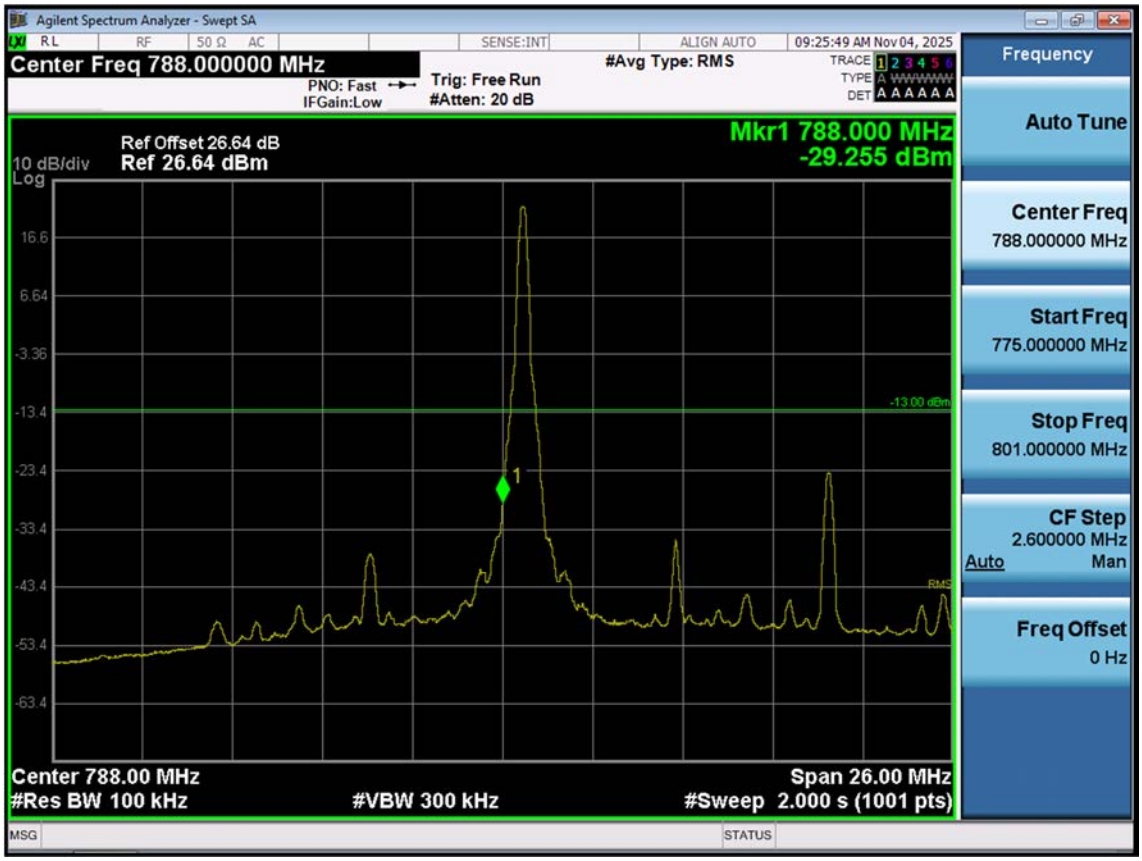
LTE B14_5 M_Extended Band Edge_High_QPSK_FullRB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_10 M_Band Edge_Low_QPSK_1RB



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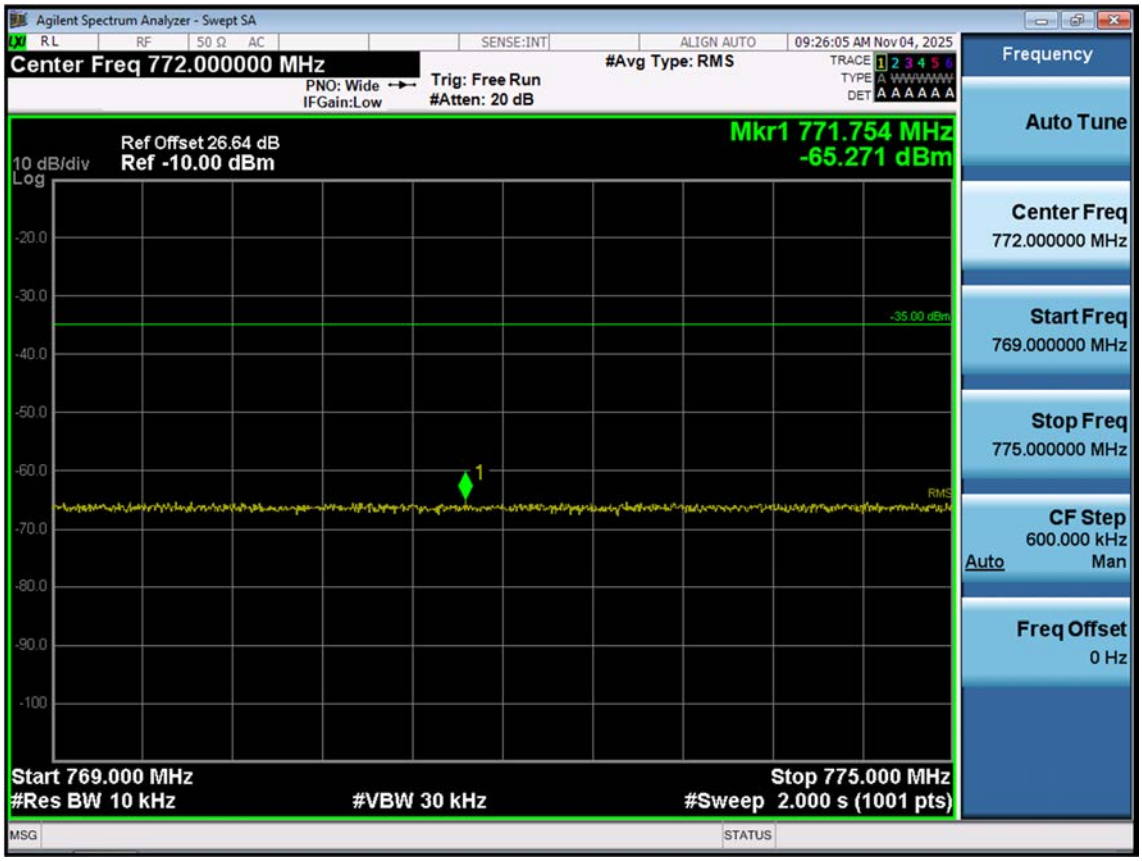
LTE B14_10 M_Band Edge_Low_QPSK_FullRB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_10 M_Extended Band Edge_Low_QPSK_1RB



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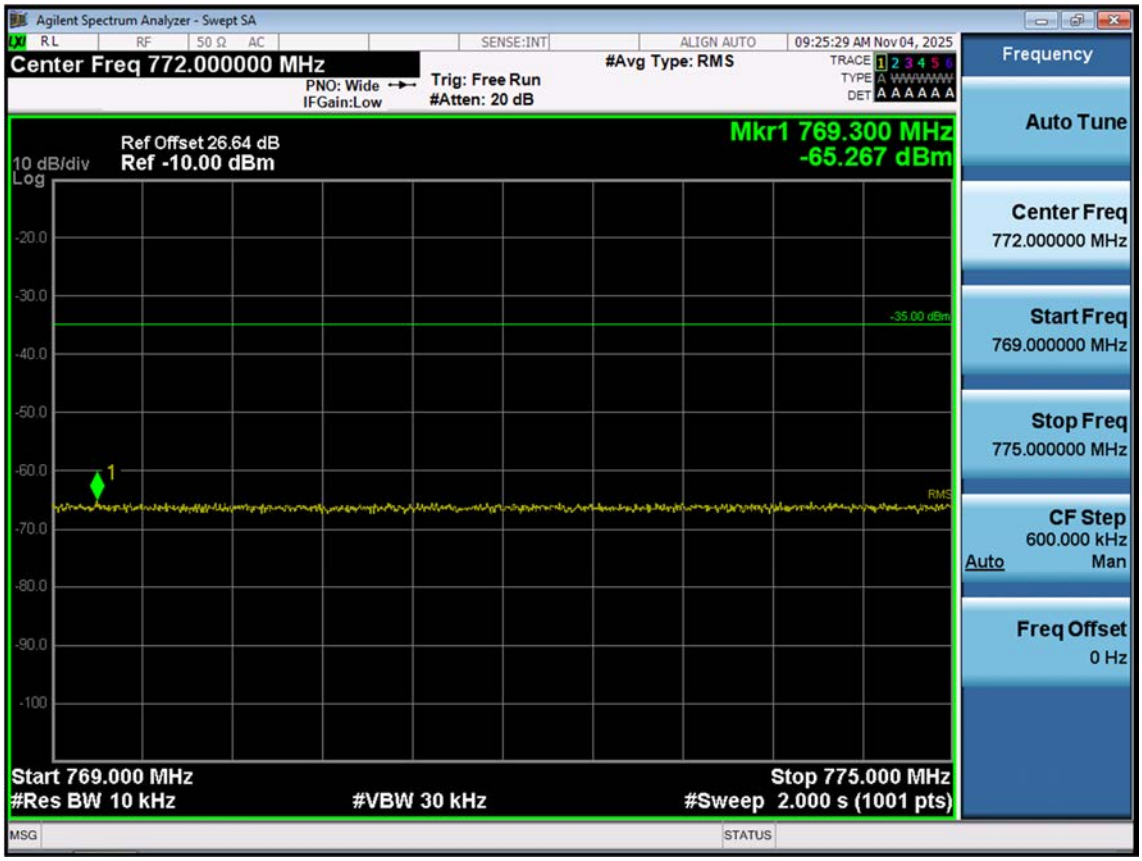
LTE B14_10 M_Extended Band Edge_Low_QPSK_FullRB



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LTE B14_10 M_Band Edge_High_QPSK_1RB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_10 M_Band Edge_High_QPSK_FullRB

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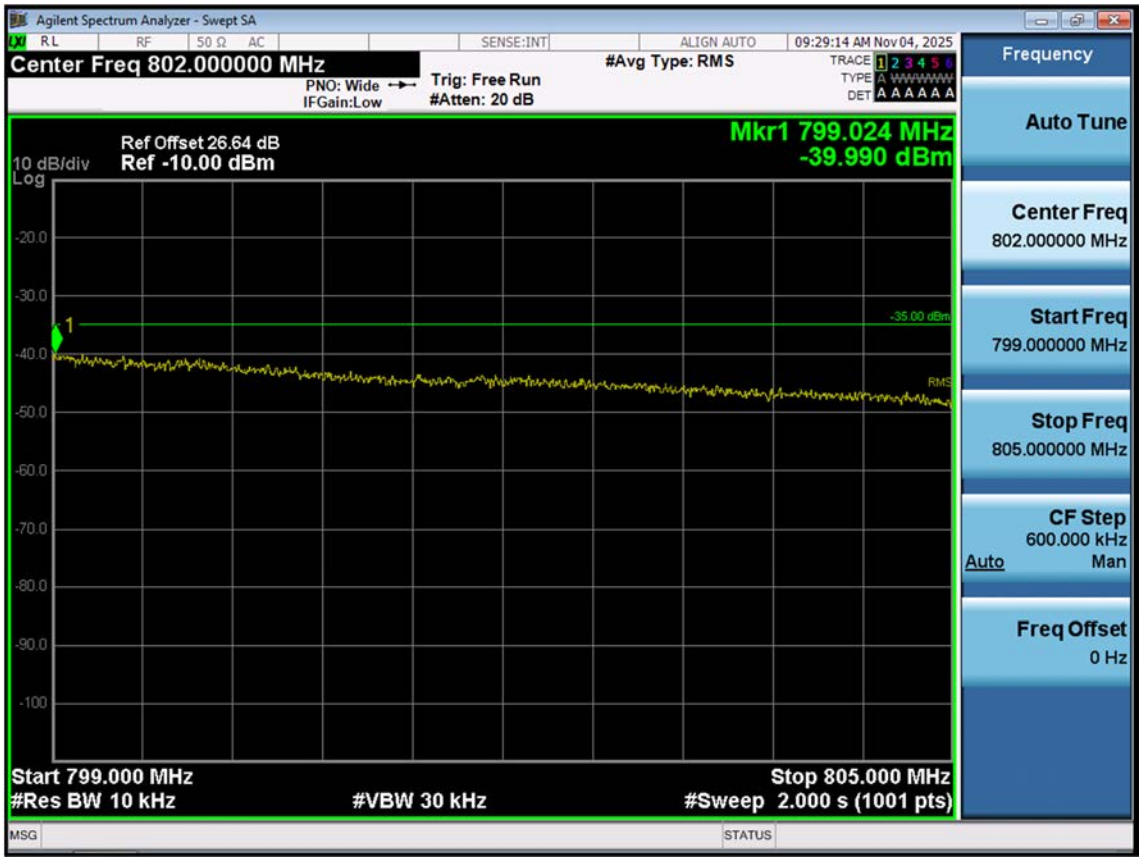
LTE B14_10 M_Extended Band Edge_High_QPSK_1RB

The report shall not be (partly) reproduced except in full without approval of the laboratory.

LTE B14_10 M_Extended Band Edge_High_QPSK_FullRB



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10. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2512-FC013-P

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