HCT
Testing and Certification

KOREA LABORATORY ACCREDITATION SCHEME KOLAS TESTING NO. KT197

TEST REPORT

FCC Sub6 n12 Test for TM18FNNABM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2506-FC066-R1

DATE OF ISSUE
July 21, 2025

Tested by Jae Ryang Do	
Technical Manager Jong Seok Lee	

Accredited by KOLAS, Republic of KOREA

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TEST REPORT

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HCT-RF-2506-FC066-R1

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Applicant	LG Electronics Inc. 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNNABM0
Date of Test	February 08, 2025 ~ June 13, 2025
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 ID	2BO3LTM18FNNABM0
FCC Classification	PCS Licensed Transmitter (PCB)
Test Standard Used	FCC Rule Part(s) : §27
Test Results	PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 17, 2025	Initial Release
1	July 21, 2025	Revised the note on page 19.

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 This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA. (KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

CONTENTS

MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	LG Electronics Inc.
Address:	128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
FCC ID:	2BO3LTM18FNNABM0
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Telematics
Model(s):	TM18FNNABM0
Voltage:	4.2V
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM CP-OFDM: QPSK, 16 QAM, 64 QAM, 256 QAM
Tx Frequency:	701.5 MHz – 713.5 MHz (Sub6 n12 (5 MHz)) 704.0 MHz – 711.0 MHz (Sub6 n12 (10 MHz)) 706.5 MHz – 708.5 MHz (Sub6 n12 (15 MHz))
Date(s) of Tests:	February 08, 2025 ~ June 13, 2025
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #1 Conducted : BMW ICON-25SF Conducted #3
Antenna Information	Please refer to the Antenna Specification document.

1.1. SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 12, 13, 17, 25, 66, 26, 38, 42, 48, 71 - NR: n2, 5, 7, 12, 25, 41, 48, 66, 71, 77, 78
MIMO 2	- LTE: B42, 48 - NR: n48, 77, 78
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- WCDMA: B2, 5 - LTE: B2, 4, 5, 7, 25, 26, 38, 66 - NR: n2, 5, 7, 25, 41, 66

Note:

1. Since the Int. BUA uses the same antenna port as MIMO1, only radiated testing was performed.

1.2. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
Sub6 n12 (5)	701.5 – 713.5	4M47G7D	PI/2 BPSK	0.224	23.50
		4M50G7D	QPSK	0.223	23.49
		4M50W7D	16 QAM	0.188	22.75
		4M48W7D	64 QAM	0.125	20.97
		4M49W7D	256 QAM	0.083	19.20
Sub6 n12 (10)	704.0 – 711.0	8M98G7D	PI/2 BPSK	0.226	23.54
		8M98G7D	QPSK	0.225	23.52
		8M97W7D	16 QAM	0.184	22.65
		9M00W7D	64 QAM	0.122	20.86
		9M00W7D	256 QAM	0.081	19.11
Sub6 n12 (15)	706.5 – 708.5	13M4G7D	PI/2 BPSK	0.223	23.48
		13M4G7D	QPSK	0.220	23.42
		13M4W7D	16 QAM	0.183	22.63
		13M5W7D	64 QAM	0.122	20.88
		13M5W7D	256 QAM	0.084	19.22

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [3G] 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

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	- N/A (See SAR Report)
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

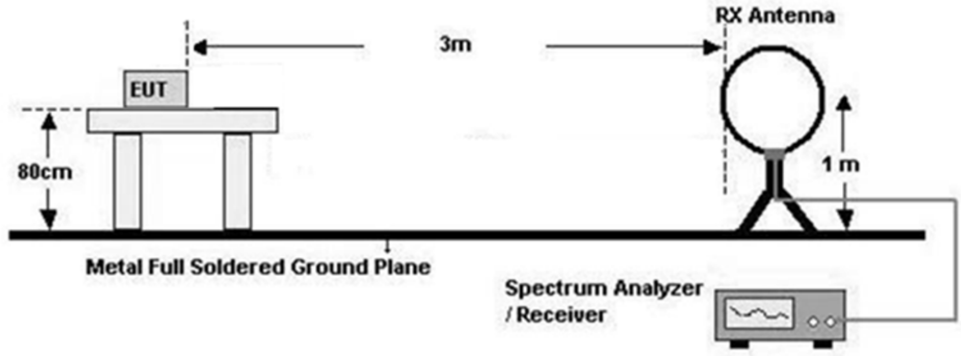
3.2 RADIATED POWER

Test Overview

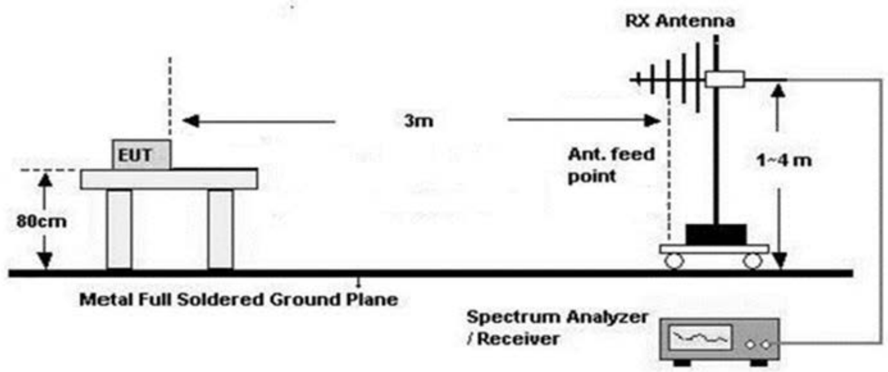
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

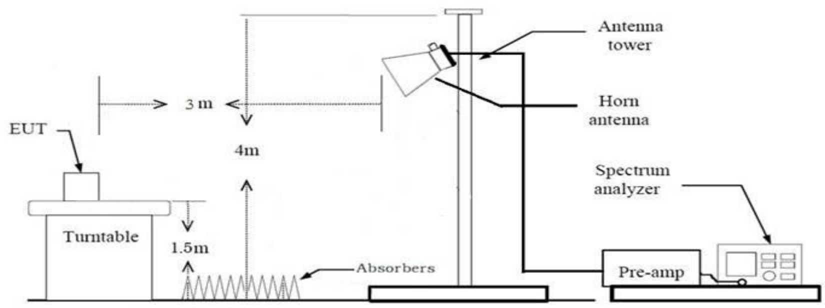
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



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 EUT is placed on a turntable, which is 0.8 m above ground plane. (Below 1 GHz)
2. The EUT is placed on a turntable, which is 1.5 m above ground plane. (Above 1 GHz)
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
6. 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.
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F)
8. EIRP (dBm)
   = Total (dBμV/m) + 20 log D – 104.8 (where D is the measurement distance in meters. D=3)
   = Total (dBμV/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

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 $\geq$ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10^{th} 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;

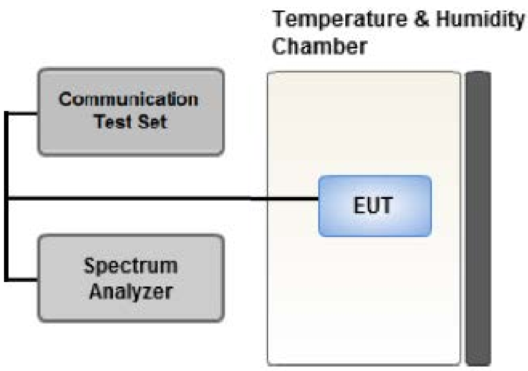
$$\text{Result}_{(dBm)} = \text{Pg}_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

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

3.4 PEAK- TO- AVERAGE RATIO



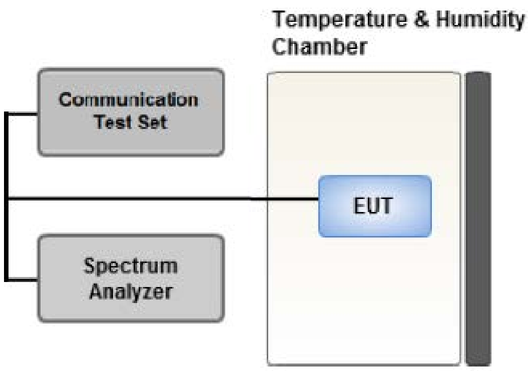
Test setup

CCDF Procedure for PAPR

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 %.

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.

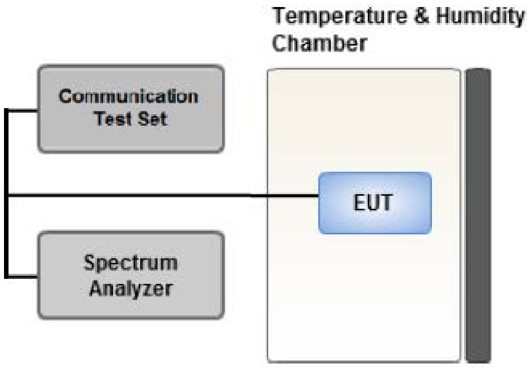
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

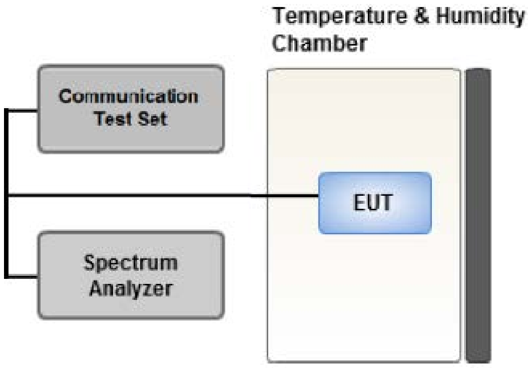
Test Overview

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 ≥ 2 x Span / RBW

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 in sweep × Symbol period
9. The trace was allowed to stabilize

Test Notes

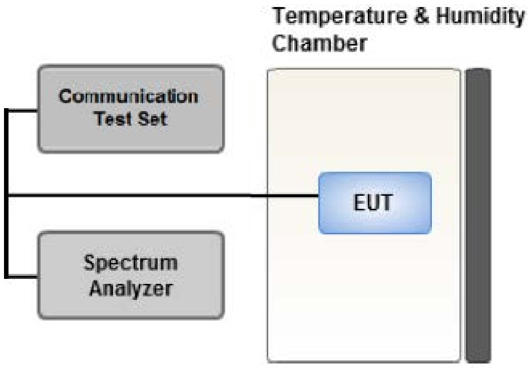
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a 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.

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.

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.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- The EUT supports only SA. Therefore, it was tested in SA mode only.
- The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 10 MHz)
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported. (Worst-case: FSA antenna)

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	See Section 8.1		Y
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		Y

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
  (Worst case: PI/2 BPSK)
- The EUT supports only SA. Therefore, it was tested in SA mode only.
- All modes of operation were investigated and the worst case configuration results are reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth Peak- to- Average Ratio	PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	5, 10, 15	Mid	Full RB	0
Band Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		5, 10, 15	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	5, 10, 15	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/48 920320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	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	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

[Conducted]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Power Splitter (DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
ATTENUATOR (20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	11/13/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer (2 Hz ~ 50.0 GHz)	N9030B	KEYSIGHT	MY56320554	02/03/2026	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.	-	-	-
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	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. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

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 (±dB)
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)

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, § 27.53(g)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	Note[1]
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:.

1. Refer to the SAR report.
2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§ 27.50(c)(10)	< 3 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(g)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

Note:

1. Radiated tests were tested using 5G Wireless Tester.

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.

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

8. TEST DATA

8.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
701.5	Sub6 n12/ 5 MHz [15 kHz]	PI/2 BPSK	88.31	28.64	2.41	119.36	V	< 3.00	0.159	22.01	1	23
		QPSK	88.12	28.64	2.41	119.17	V		0.152	21.82		
		16-QAM	87.33	28.64	2.41	118.38	V		0.127	21.03		
		64-QAM	86.46	28.64	2.41	117.51	V		0.104	20.16		
		256-QAM	84.31	28.64	2.41	115.36	V		0.063	18.01		
707.5		PI/2 BPSK	89.10	28.84	2.42	120.36	V		0.200	23.01	1	23
		QPSK	89.01	28.84	2.42	120.27	V		0.196	22.92		
		16-QAM	88.03	28.84	2.42	119.29	V		0.156	21.94		
		64-QAM	87.16	28.84	2.42	118.42	V		0.128	21.07		
		256-QAM	86.42	28.84	2.42	117.68	V		0.108	20.33		
713.5		PI/2 BPSK	89.16	28.94	2.44	120.53	V		0.208	23.18	1	12
		QPSK	89.08	28.94	2.44	120.46	V		0.205	23.11		
		16-QAM	88.18	28.94	2.44	119.55	V		0.166	22.20		
		64-QAM	87.31	28.94	2.44	118.68	V		0.136	21.33		
		256-QAM	85.16	28.94	2.44	116.54	V		0.083	19.19		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
704.0	Sub6 n12/ 10 MHz [15 kHz]	PI/2 BPSK	88.88	28.64	2.41	119.93	V	< 3.00	0.181	22.58	1	50
		QPSK	88.73	28.64	2.41	119.78	V		0.175	22.43		
		16-QAM	87.90	28.64	2.41	118.95	V		0.145	21.60		
		64-QAM	87.00	28.64	2.41	118.05	V		0.118	20.70		
		256-QAM	87.00	28.64	2.41	118.05	V		0.118	20.70		
707.5		PI/2 BPSK	89.19	28.84	2.42	120.45	V		0.204	23.10	1	50
		QPSK	89.12	28.84	2.42	120.38	V		0.201	23.03		
		16-QAM	88.14	28.84	2.42	119.40	V		0.160	22.05		
		64-QAM	87.24	28.84	2.42	118.50	V		0.130	21.15		
		256-QAM	87.24	28.84	2.42	118.50	V		0.130	21.15		
711.0		PI/2 BPSK	89.27	28.94	2.44	120.65	V		0.214	23.30	1	26
		QPSK	89.12	28.94	2.44	120.50	V		0.207	23.15		
		16-QAM	88.29	28.94	2.44	119.67	V		0.170	22.32		
		64-QAM	87.39	28.94	2.44	118.77	V		0.139	21.42		
		256-QAM	87.39	28.94	2.44	118.77	V		0.139	21.42		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured (dBμV/m)	Ant. Factor + Dis. Factor(dB)	Cable loss(dB)	Total (dBμV/m)	Pol.	Limit	ERP		RB	
								W	W	dBm	Size	Offset
706.5	Sub6 n12/ 15 MHz [15 kHz]	PI/2 BPSK	89.30	28.64	2.41	120.35	V	< 3.00	0.200	23.00	1	77
		QPSK	89.22	28.64	2.41	120.27	V		0.196	22.92		
		16-QAM	88.32	28.64	2.41	119.37	V		0.159	22.02		
		64-QAM	87.42	28.64	2.41	118.47	V		0.129	21.12		
		256-QAM	85.24	28.64	2.41	116.28	V		0.078	18.93		
707.5		PI/2 BPSK	89.23	28.84	2.42	120.49	V		0.206	23.14	1	77
		QPSK	89.23	28.84	2.42	120.49	V		0.206	23.14		
		16-QAM	88.25	28.84	2.42	119.51	V		0.164	22.16		
		64-QAM	87.35	28.84	2.42	118.61	V		0.134	21.26		
		256-QAM	84.25	28.84	2.42	115.51	V		0.066	18.16		
708.5		PI/2 BPSK	89.11	28.94	2.44	120.49	V		0.206	23.14	1	77
		QPSK	89.06	28.94	2.44	120.44	V		0.204	23.09		
		16-QAM	88.08	28.94	2.44	119.46	V		0.163	22.11		
		64-QAM	87.18	28.94	2.44	118.56	V		0.132	21.21		
		256-QAM	87.18	28.94	2.44	118.56	V		0.132	21.21		

8.2 RADIATED SPURIOUS EMISSIONS

- NR Band: N12
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 3 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
140800 (704.0)	1 408.00	-42.55	7.81	-55.61	1.87	V	-49.67	-13.00	1	50
	2 112.00	-44.34	9.46	-55.80	2.34	V	-48.68	-13.00		
	2 816.00	-52.64	10.68	-62.94	2.69	H	-54.95	-13.00		
	3 520.00	-51.90	11.62	-60.04	3.04	H	-51.46	-13.00		
	4 224.00	-53.26	11.70	-58.96	3.40	H	-50.66	-13.00		
	4 928.00	-55.84	11.31	-57.50	3.64	H	-49.83	-13.00		
141500 (707.5)	1 415.00	-38.08	7.84	-51.11	1.87	V	-45.14	-13.00	1	50
	2 122.50	-12.12	9.36	-23.76	2.28	V	-16.68	-13.00		
	2 830.00	-52.53	10.73	-62.76	2.70	H	-54.73	-13.00		
	3 537.50	-35.77	11.64	-43.60	3.06	V	-35.02	-13.00		
	4 245.00	-53.53	11.68	-59.40	3.35	H	-51.07	-13.00		
	4 952.50	-55.72	11.26	-57.30	3.69	V	-49.73	-13.00		
142200 (711.0)	1 422.00	-42.24	7.86	-55.22	1.87	V	-49.23	-13.00	1	26
	2 133.00	-25.29	9.29	-36.96	2.25	H	-29.92	-13.00		
	2 844.00	-51.47	10.79	-61.76	2.71	H	-53.68	-13.00		
	3 555.00	-43.99	11.67	-51.75	3.09	V	-43.17	-13.00		
	4 266.00	-53.14	11.63	-59.05	3.38	V	-50.80	-13.00		
	4 977.00	-55.62	11.22	-57.19	3.68	V	-49.65	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n12	5 MHz	707.5	BPSK	25	0	4.57
			QPSK			5.68
			16-QAM			6.42
			64-QAM			6.83
			256-QAM			6.83
	10 MHz		BPSK	50		4.36
			QPSK			5.47
			16-QAM			6.36
			64-QAM			6.33
			256-QAM			6.57
	15 MHz		BPSK	75		4.60
			QPSK			5.56
			16-QAM			6.33
			64-QAM			6.64
			256-QAM			6.64

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 39 ~ 53.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n12	5 MHz	707.5	BPSK	25	0	4.4744
			QPSK			4.4952
			16-QAM			4.4971
			64-QAM			4.4756
			256-QAM			4.4874
	10 MHz		BPSK	50		8.9766
			QPSK			8.9792
			16-QAM			8.9653
			64-QAM			9.0016
			256-QAM			9.0017
	15 MHz		BPSK	75		13.434
			QPSK			13.431
			16-QAM			13.425
			64-QAM			13.445
			256-QAM			13.452

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 54 ~ 68.

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)
Sub6 n12	5	701.5	4.0479	29.320	-60.485	-31.165	-13.00
		707.5	4.9253	29.320	-62.019	-32.699	
		713.5	8.1057	29.910	-61.892	-31.982	
	10	704.0	4.0579	29.320	-60.685	-31.365	
		707.5	5.2044	29.910	-61.212	-31.302	
		711.0	4.9352	29.320	-61.472	-32.152	
	15	706.5	9.8305	29.910	-62.265	-32.355	
		707.5	3.7887	29.320	-61.668	-32.348	
		708.5	9.8305	29.910	-61.695	-31.785	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 69 ~ 77.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator + Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.250
1 – 5	29.320
5 – 10	29.910
10 – 15	30.530
15 – 20	31.840
Above 20(26.5)	32.520

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 78 ~ 98.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ■ BandWidth: 5 MHz
- ■ Voltage(100 %): 4.200 VDC
- ■ Lowest voltage: 3.700 VDC
- ■ Deviation Limit: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
707.5	100 %	+20(Ref)	707 499 993	0.0	0.000 000	0.000
	100 %	-30	707 499 984	-9.3	-0.000 001	-0.013
	100 %	-20	707 499 988	-5.6	-0.000 001	-0.008
	100 %	-10	707 499 986	-6.9	-0.000 001	-0.010
	100 %	0	707 499 988	-5.4	-0.000 001	-0.008
	100 %	+10	707 499 989	-4.3	-0.000 001	-0.006
	100 %	+30	707 499 989	-4.4	-0.000 001	-0.006
	100 %	+40	707 499 989	-4.1	-0.000 001	-0.006
	100 %	+50	707 499 988	-5.5	-0.000 001	-0.008
	Lowest voltage	+20	707 499 987	-6.2	-0.000 001	-0.009

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 4.200 VDC

▣ Lowest voltage: 3.700 VDC

▣ Deviation Limit: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
707.5	100 %	+20(Ref)	707 499 993	0.0	0.000 000	0.000
	100 %	-30	707 499 985	-7.2	-0.000 001	-0.010
	100 %	-20	707 499 985	-7.8	-0.000 001	-0.011
	100 %	-10	707 499 985	-7.6	-0.000 001	-0.011
	100 %	0	707 499 989	-3.2	0.000 000	-0.005
	100 %	+10	707 499 987	-6.0	-0.000 001	-0.008
	100 %	+30	707 499 986	-6.7	-0.000 001	-0.009
	100 %	+40	707 499 987	-5.7	-0.000 001	-0.008
	100 %	+50	707 499 985	-7.8	-0.000 001	-0.011
	Lowest voltage	+20	707 499 988	-4.9	-0.000 001	-0.007

▣ BandWidth: 15 MHz

▣ Voltage(100 %): 4.200 VDC

▣ Lowest voltage: 3.700 VDC

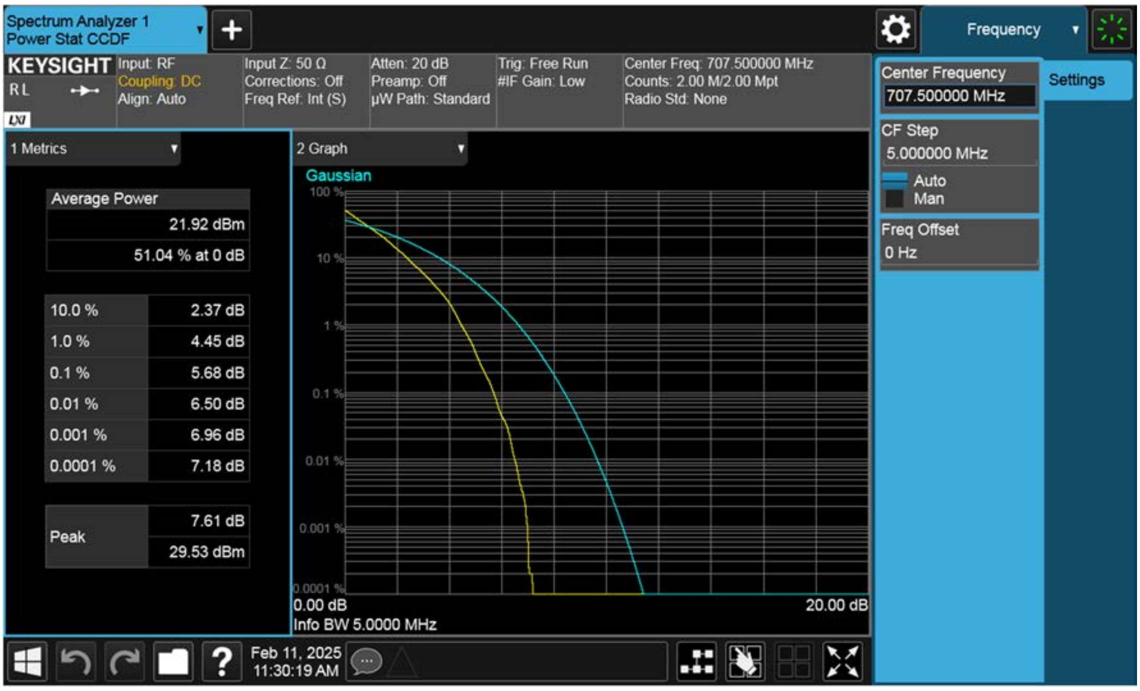
▣ Deviation Limit: Emission must remain in band

Test. Frequncy (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
707.5	100 %	+20(Ref)	707 500 000	0.0	0.000 000	0.000
	100 %	-30	707 499 998	-1.9	0.000 000	-0.003
	100 %	-20	707 499 999	-1.2	0.000 000	-0.002
	100 %	-10	707 499 997	-3.6	-0.000 001	-0.005
	100 %	0	707 499 999	-1.2	0.000 000	-0.002
	100 %	+10	707 499 997	-3.4	0.000 000	-0.005
	100 %	+30	707 499 998	-2.4	0.000 000	-0.003
	100 %	+40	707 499 998	-2.6	0.000 000	-0.004
	100 %	+50	707 500 000	0.3	0.000 000	0.000
	Lowest voltage	+20	707 499 998	-2.5	0.000 000	-0.004

9. TEST PLOTS

NR12_5 M_PAR_Mid_BPSK_FullRB

NR12_5 M_PAR_Mid_QPSK_FullRB



NR12_5 M_PAR_Mid_16QAM_FullRB

NR12_5 M_PAR_Mid_64QAM_FullRB

NR12_5 M_PAR_Mid_256QAM_FullRB

NR12_10 M_PAR_Mid_BPSK_FullRB

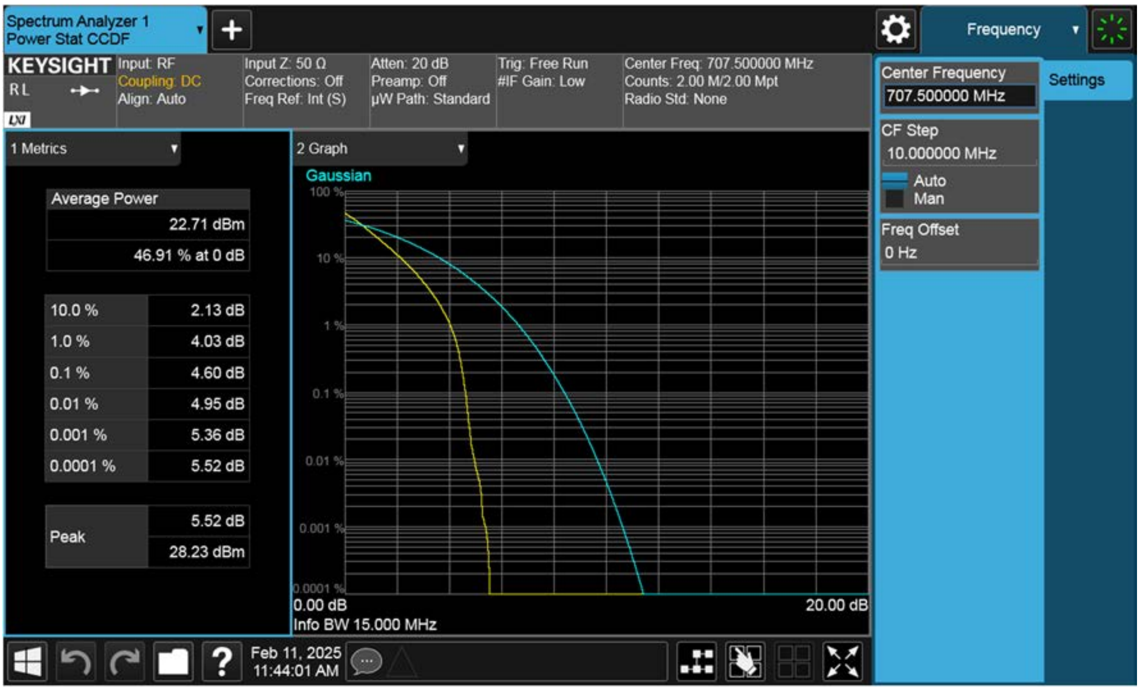
NR12_10 M_PAR_Mid_QPSK_FullRB

NR12_10 M_PAR_Mid_16QAM_FullRB

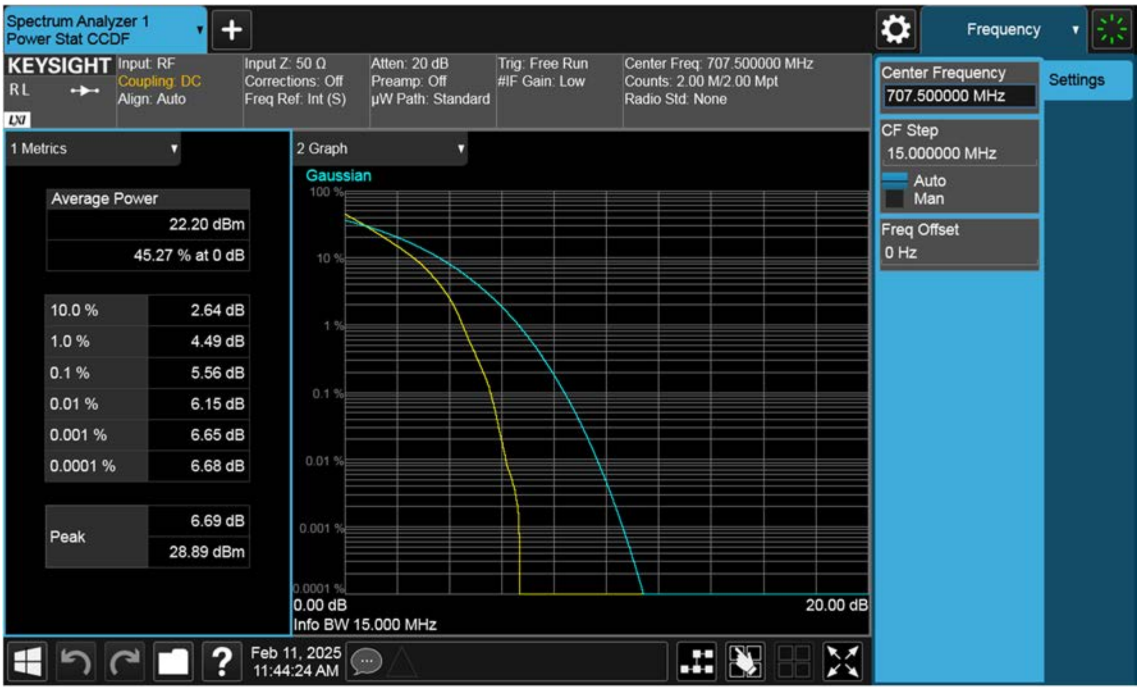
NR12_10 M_PAR_Mid_64QAM_FullRB

NR12_10 M_PAR_Mid_256QAM_FullRB

NR12_15 M_PAR_Mid_BPSK_FullRB

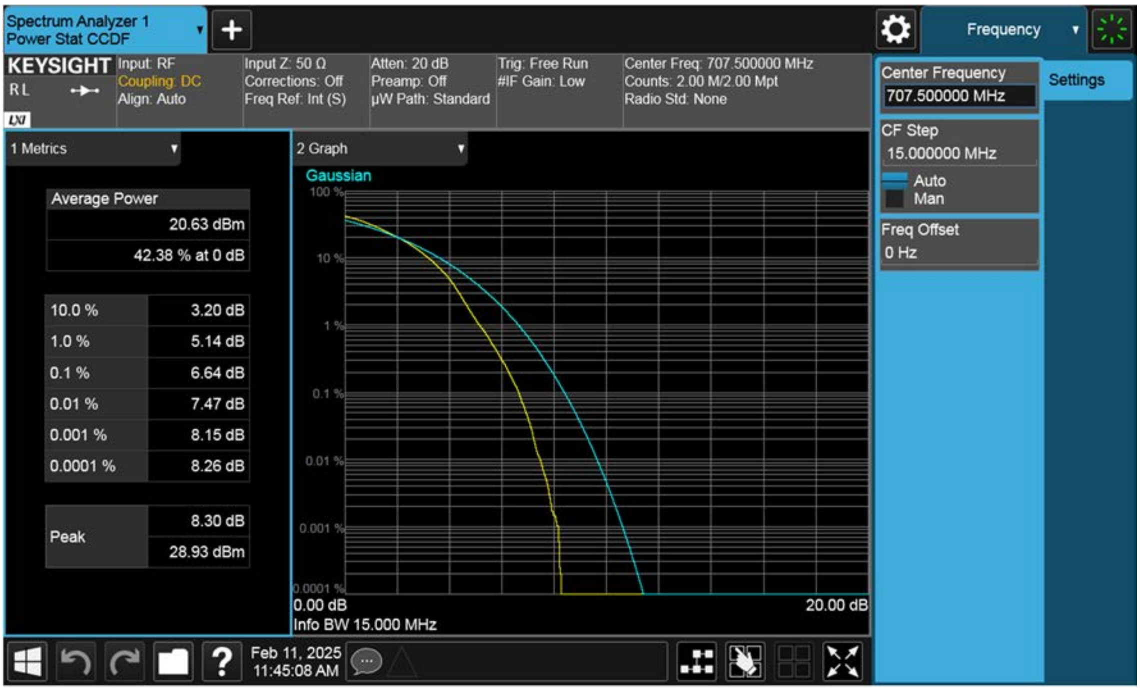


NR12_15 M_PAR_Mid_QPSK_FullRB



NR12_15 M_PAR_Mid_16QAM_FullRB

NR12_15 M_PAR_Mid_64QAM_FullRB

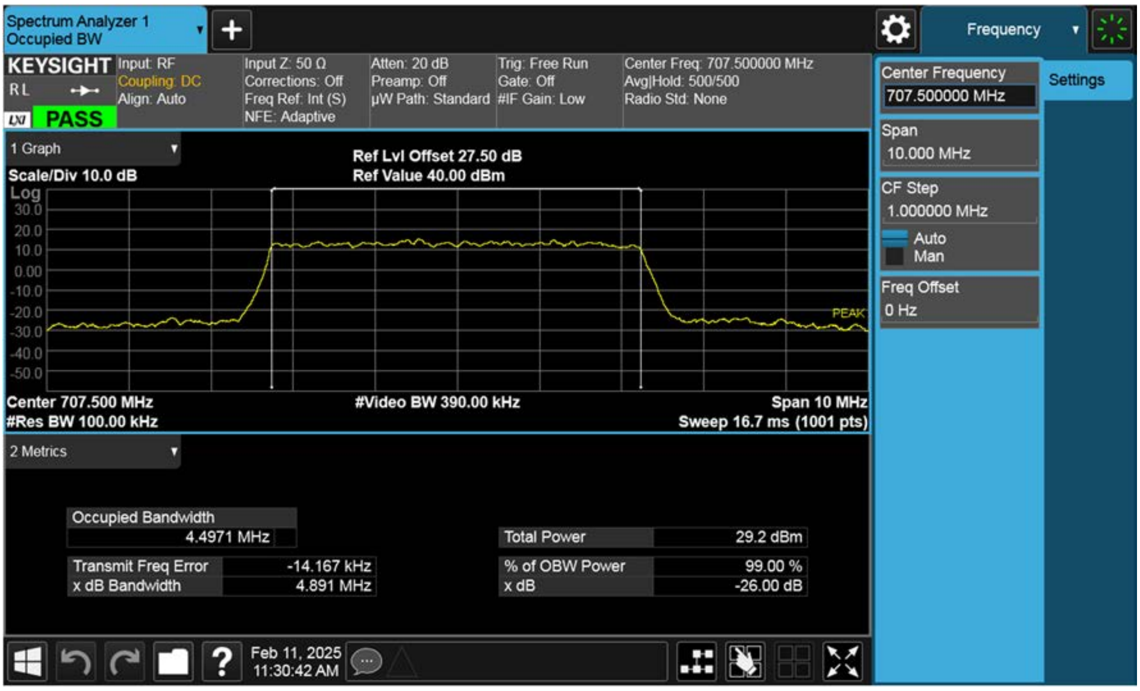


NR12_15 M_PAR_Mid_256QAM_FullRB

NR12_5 M_OBW_Mid_BPSK_FullRB

NR12_5 M_OBW_Mid_QPSK_FullRB

NR12_5 M_OBW_Mid_16QAM_FullRB



NR12_5 M_OBW_Mid_64QAM_FullRB

NR12_5 M_OBW_Mid_256QAM_FullRB

NR12_10 M_OBW_Mid_BPSK_FullRB

NR12_10 M_OBW_Mid_QPSK_FullRB

NR12_10 M_OBW_Mid_16QAM_FullRB

NR12_10 M_OBW_Mid_64QAM_FullRB

NR12_10 M_OBW_Mid_256QAM_FullRB

NR12_15 M_OBW_Mid_BPSK_FullRB

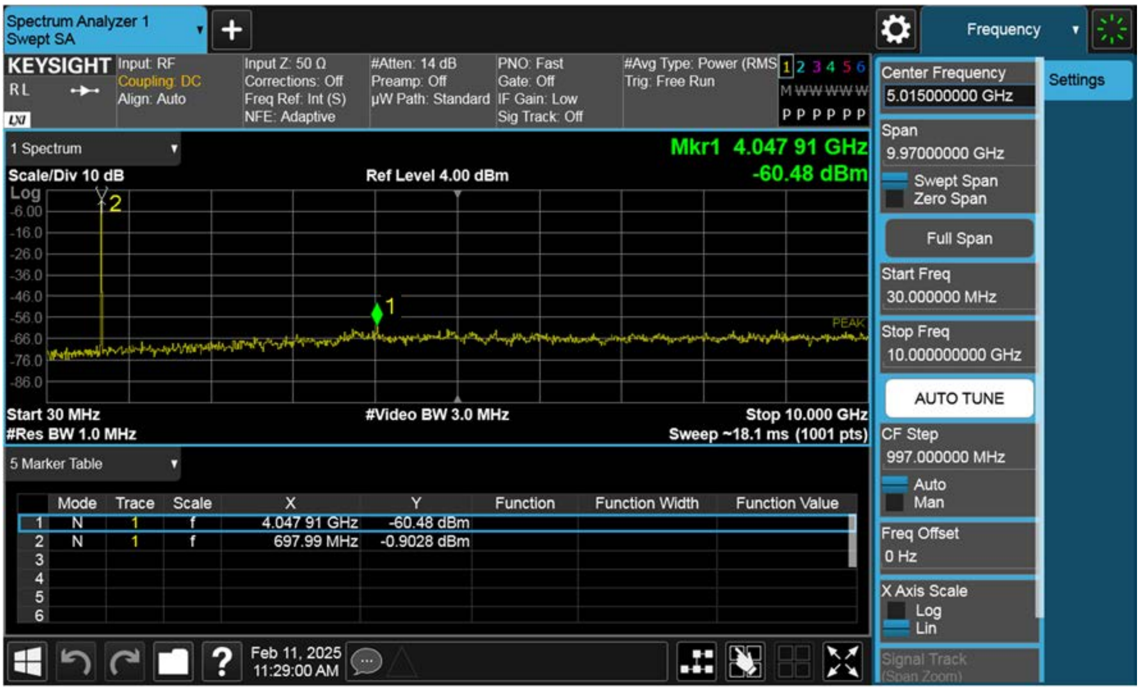
NR12_15 M_OBW_Mid_QPSK_FullRB

NR12_15 M_OBW_Mid_16QAM_FullRB

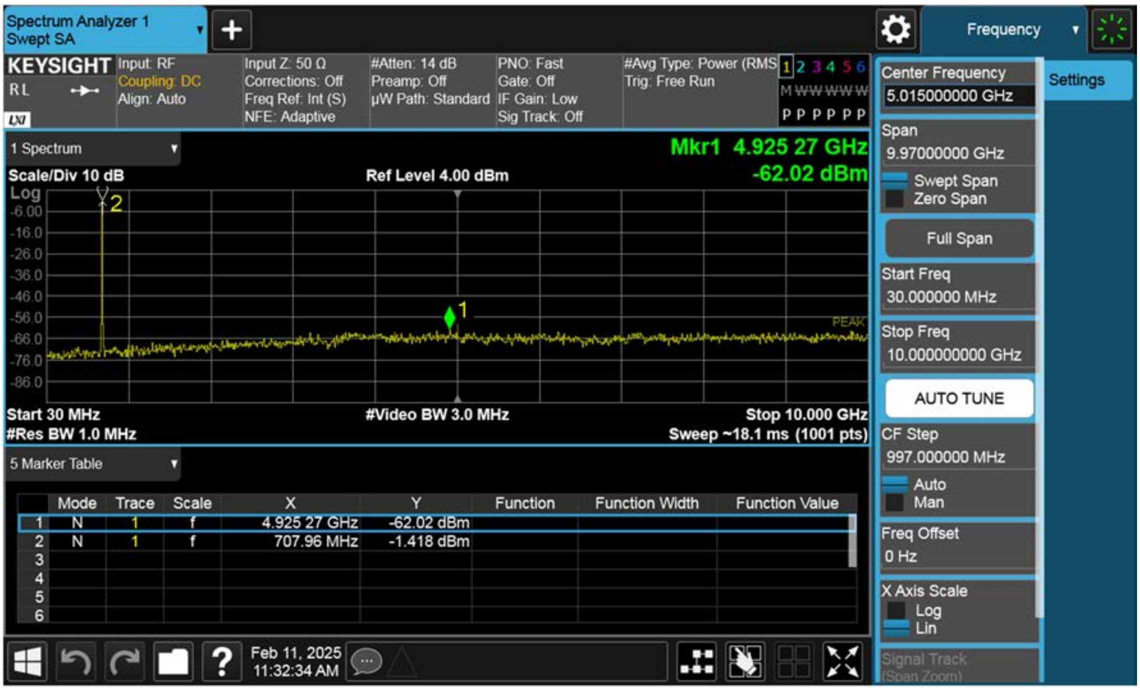
NR12_15 M_OBW_Mid_64QAM_FullRB

NR12_15 M_OBW_Mid_256QAM_FullRB

NR12_5 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

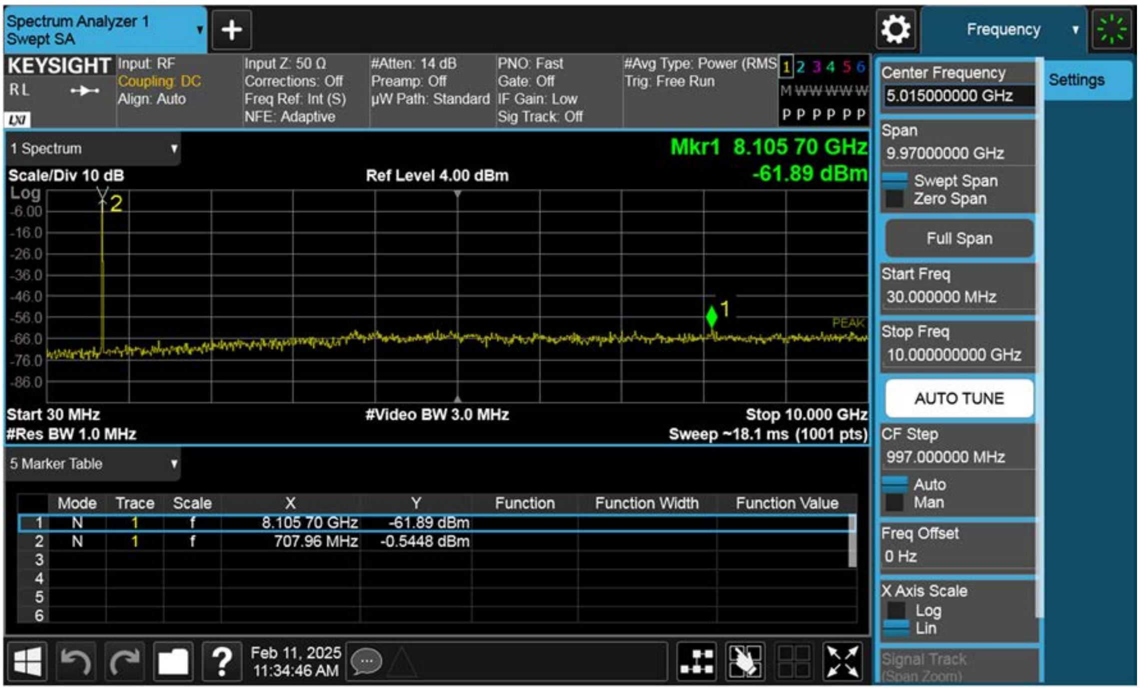


NR12_5 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB

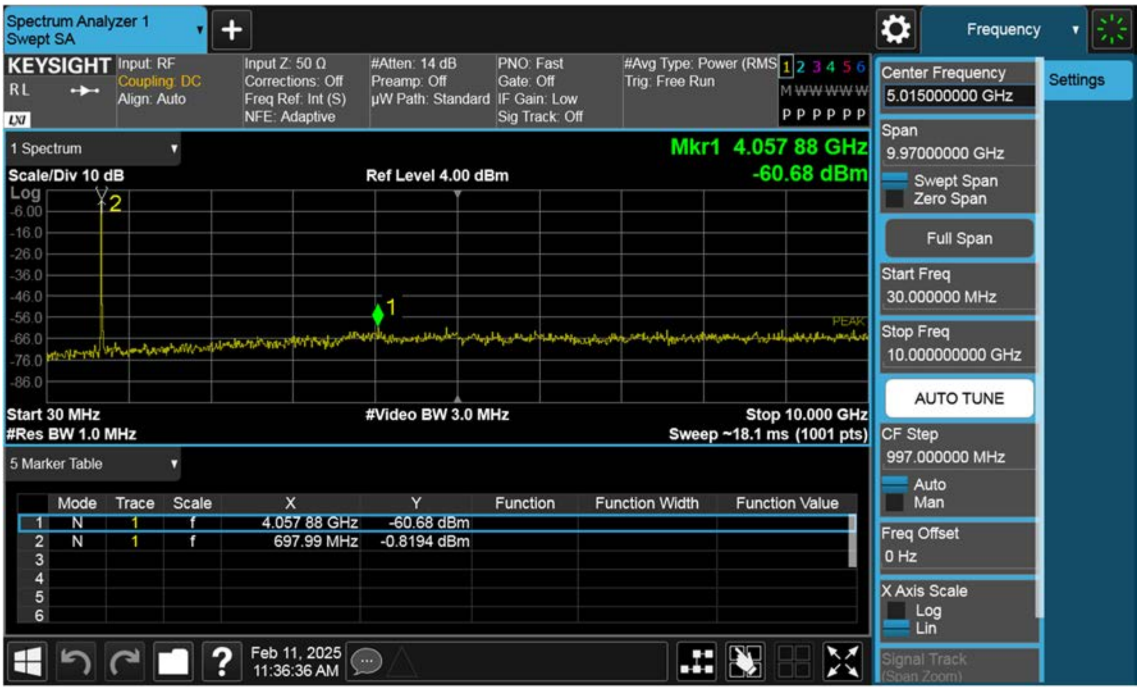


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.925 27 GHz	-62.02 dBm			
2	N	1	f	707.96 MHz	-1.418 dBm			
3								
4								
5								
6								

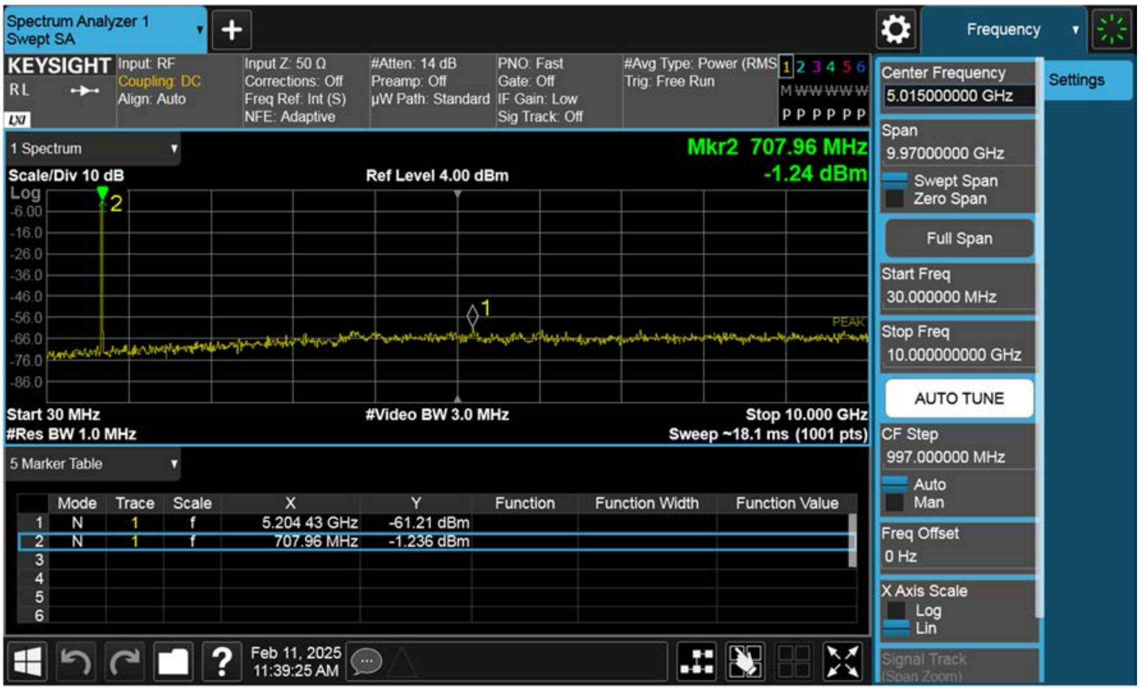
NR12_5 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



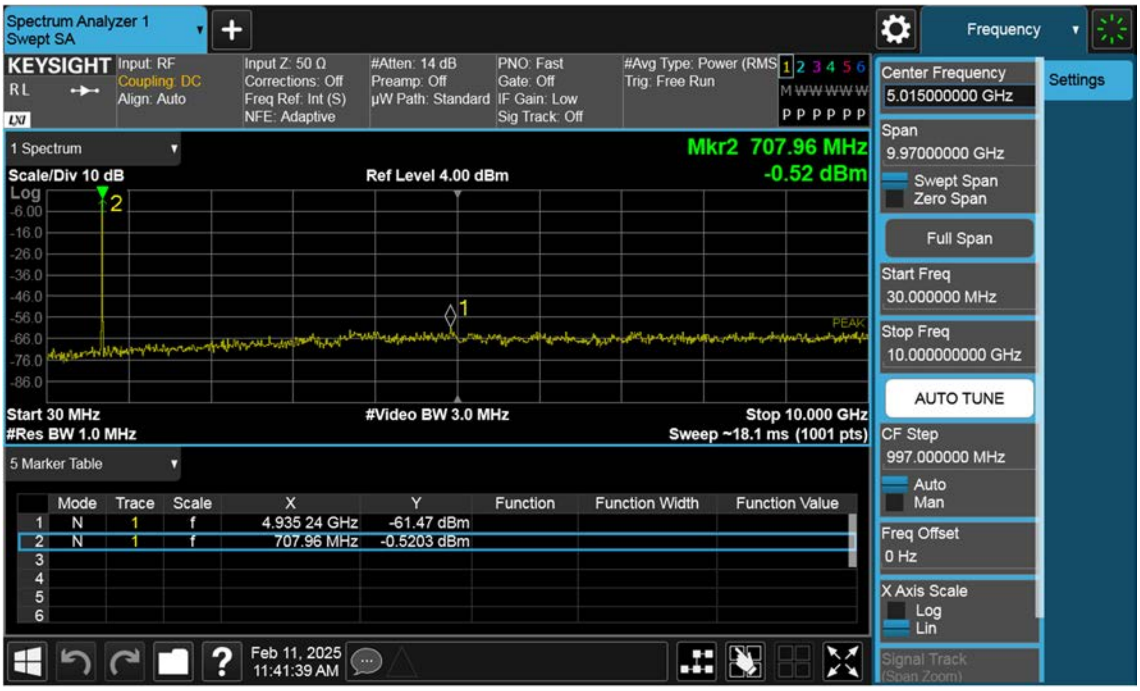
NR12_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



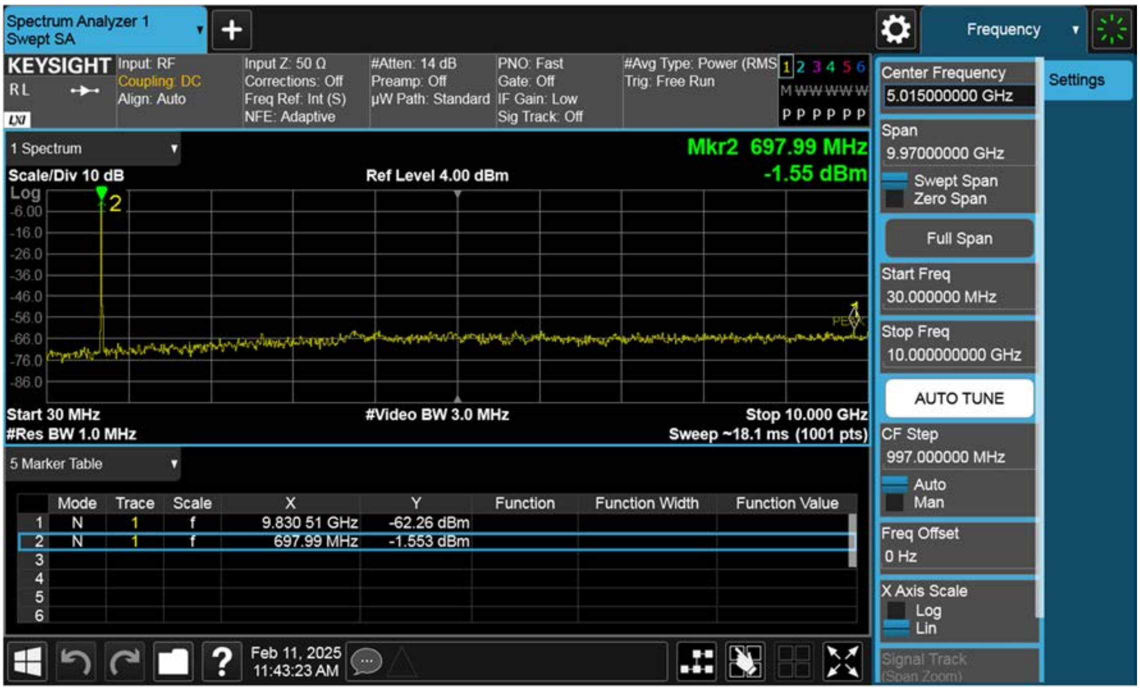
NR12_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



NR12_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB

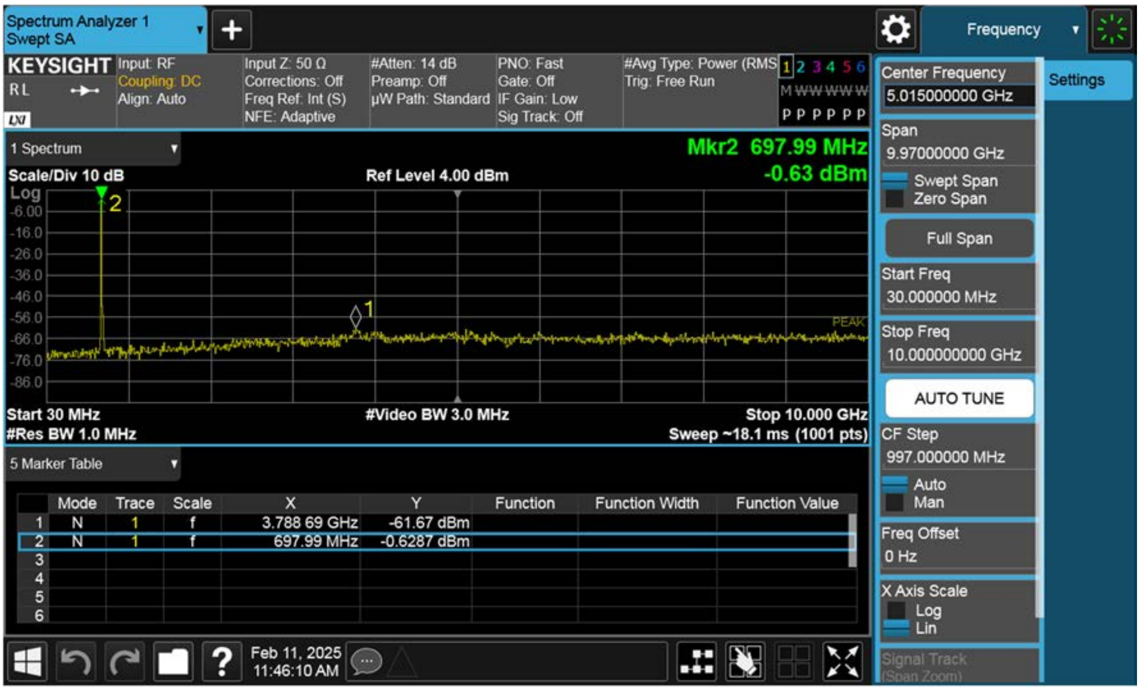


NR12_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

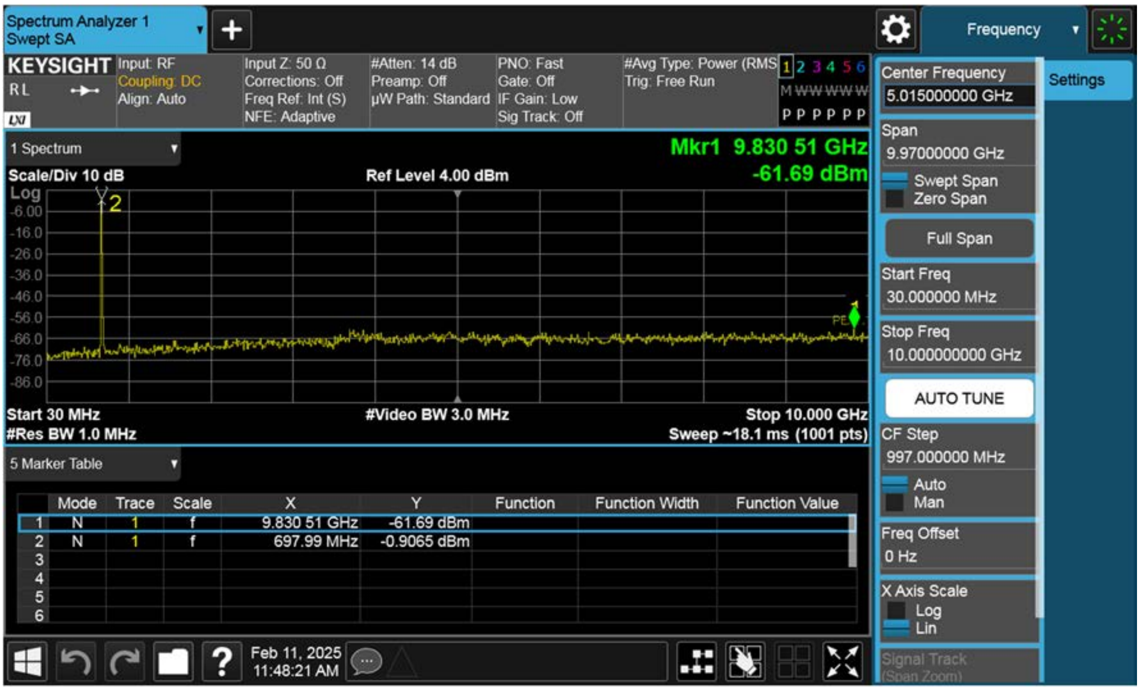


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	9.830 51 GHz	-62.26 dBm			
2	N	1	f	697.99 MHz	-1.553 dBm			
3								
4								
5								
6								

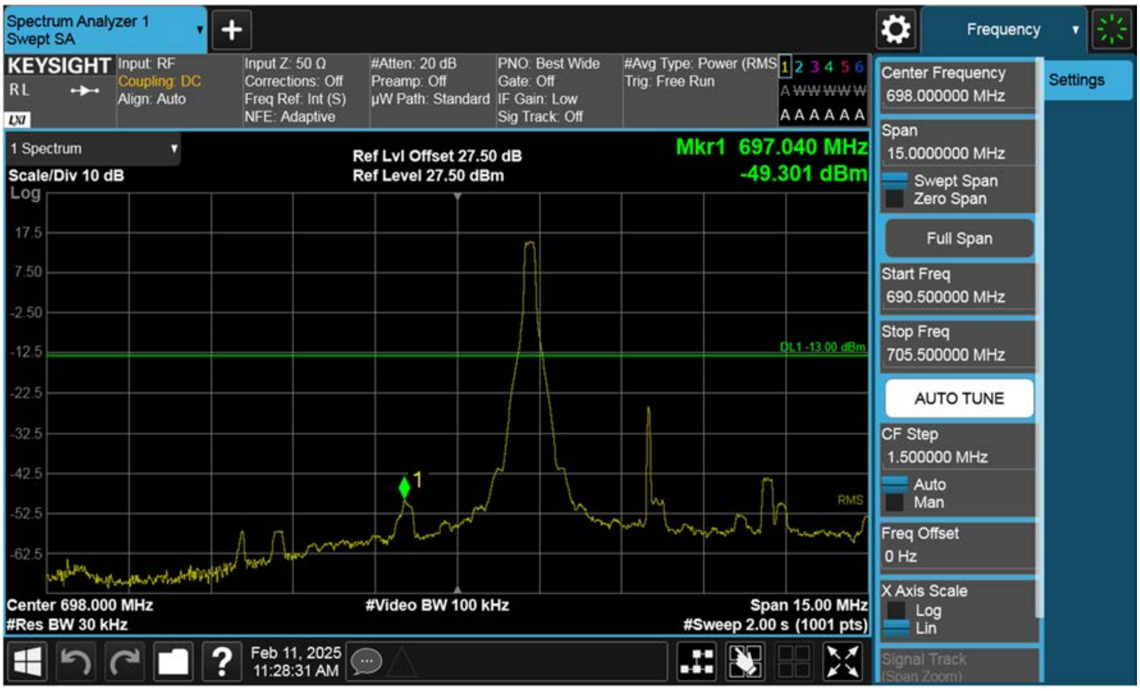
NR12_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



NR12_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



NR12_5 M_Band Edge_Low_BPSK_1RB



NR12_5 M_Band Edge_Low_BPSK_FullRB

NR12_5 M_Extended Band Edge_Low_BPSK_FullRB

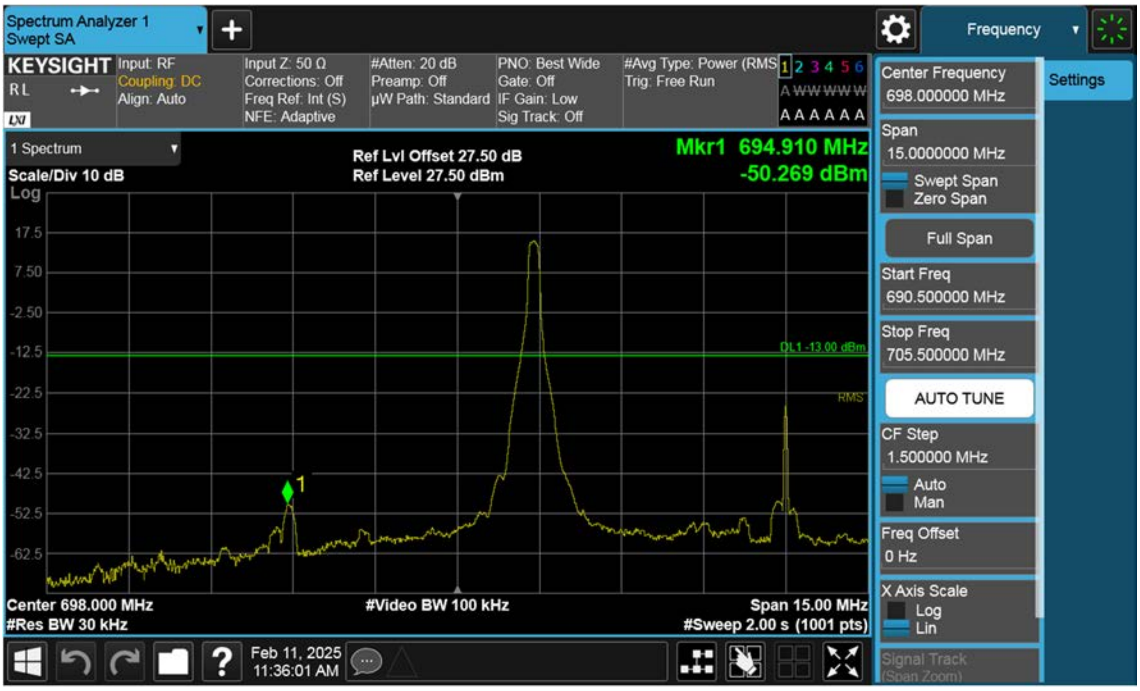
NR12_5 M_Band Edge_High_BPSK_1RB(1)

NR12_5 M_Band Edge_High_BPSK_1RB(2)

NR12_5 M_Band Edge_High_BPSK_FullRB

NR12_5 M_Extended Band Edge_High_BPSK_FullRB

NR12_10 M_Band Edge_Low_BPSK_1RB

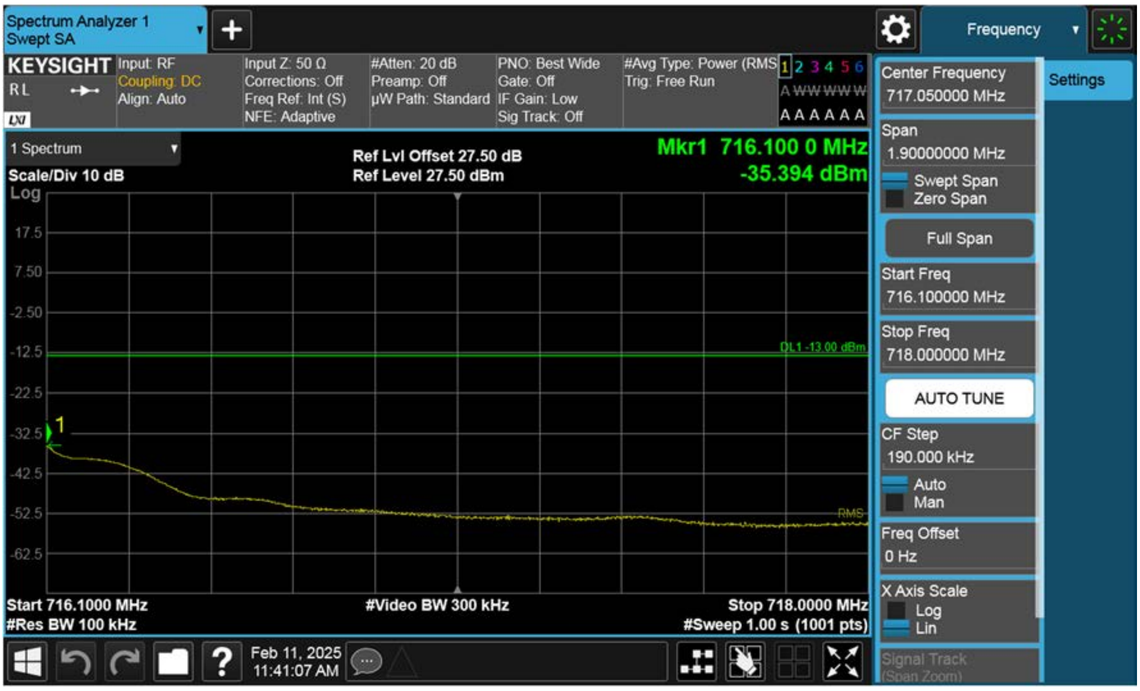


NR12_10 M_Band Edge_Low_BPSK_FullRB

NR12_10 M_Extended Band Edge_Low_BPSK_FullRB

NR12_10 M_Band Edge_High_BPSK_1RB(1)

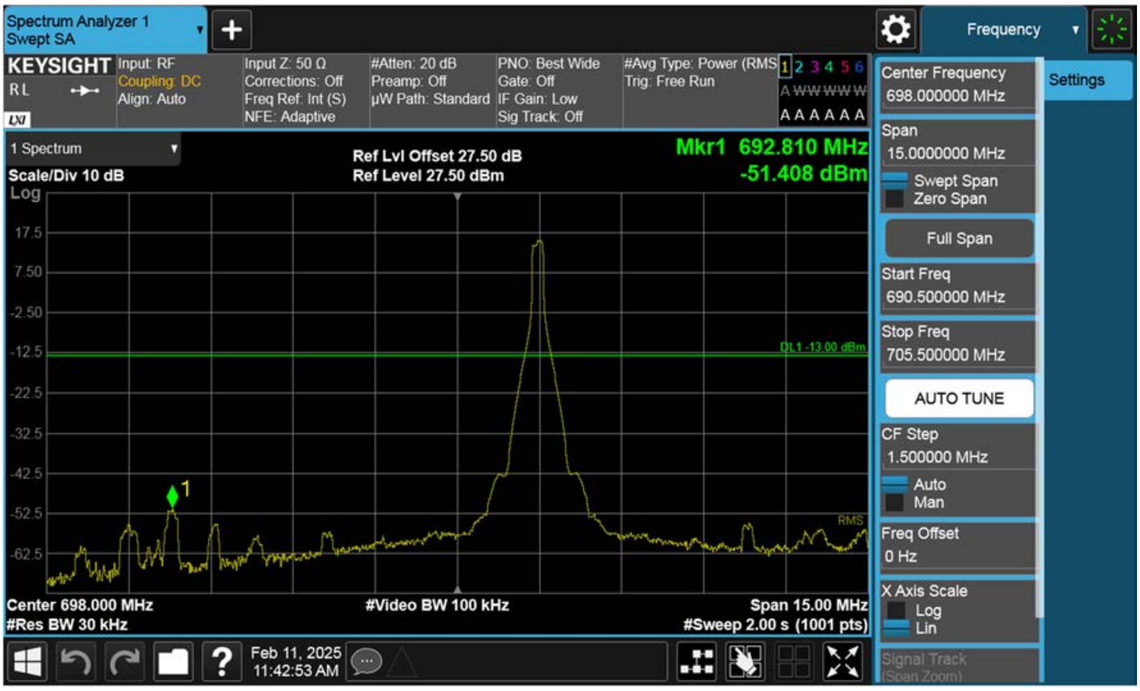
NR12_10 M_Band Edge_High_BPSK_1RB(2)



NR12_10 M_Band Edge_High_BPSK_FullRB

NR12_10 M_Extended Band Edge_High_BPSK_FullRB

NR12_15 M_Band Edge_Low_BPSK_1RB



NR12_15 M_Band Edge_Low_BPSK_FullRB

NR12_15 M_Extended Band Edge_Low_BPSK_FullRB

NR12_15 M_Band Edge_High_BPSK_1RB(1)

NR12_15 M_Band Edge_High_BPSK_1RB(2)

NR12_15 M_Band Edge_High_BPSK_FullRB

NR12_15 M_Extended Band Edge_High_BPSK_FullRB

10. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2506-FC066-P