TEST REPORT

FCC LTE B66 Test for GCM4701NA
Certification

APPLICANT
CM PARTNER INC.

REPORT NO.
HCT-RF-2406-FC005-R1

DATE OF ISSUE
June 27, 2024

Tested by
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Technical Manager
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Applicant	**CM PARTNER INC.** 479-11, Gyeonggidong-ro, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17121, South Korea
Product Name Model Name	LTE Module GCM4701NA
Date of Test	May 16, 2024 ~ June 18, 2024
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 Republic of Korea)
FCC ID	2BGOOGCM4701NA
FCC Classification	PCB 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 21, 2024	Initial Release
1	June 27, 2024	Revised the 19&20 page. (Added note)

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).

CONTENTS

MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	CM PARTNER INC.
Address:	479-11, Gyeonggidong-ro, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17121, South Korea
FCC ID:	2BGOOGCM4701NA
Application Type:	Certification
FCC Classification:	PCB Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	LTE Module
Model(s):	GCM4701NA
Additional Model(s)	-
Tx Frequency:	1710.7 MHz – 1779.3 MHz (LTE – Band 66 (1.4 MHz)) 1711.5 MHz – 1778.5 MHz (LTE – Band 66 (3 MHz)) 1712.5 MHz – 1777.5 MHz (LTE – Band 66 (5 MHz)) 1715.0 MHz – 1775.0 MHz (LTE – Band 66 (10 MHz)) 1717.5 MHz – 1772.5 MHz (LTE – Band 66 (15 MHz)) 1720.0 MHz – 1770.0 MHz (LTE – Band 66 (20 MHz))
Date(s) of Tests:	May 16, 2024 ~ June 18, 2024
Serial number:	351951100001832

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band66 (1.4)	1710.7 – 1779.3	1M12G7D	QPSK	0.322	25.08
		1M11W7D	16QAM	0.284	24.54
		1M13W7D	64QAM	0.238	23.77
LTE – Band66 (3)	1711.5 – 1778.5	2M74G7D	QPSK	0.310	24.91
		2M73W7D	16QAM	0.269	24.30
		2M72W7D	64QAM	0.213	23.28
LTE – Band66 (5)	1712.5 – 1777.5	4M52G7D	QPSK	0.286	24.56
		4M50W7D	16QAM	0.244	23.87
		4M52W7D	64QAM	0.189	22.77
LTE – Band66 (10)	1715.0 – 1775.0	8M96G7D	QPSK	0.281	24.48
		8M96W7D	16QAM	0.242	23.83
		8M97W7D	64QAM	0.192	22.83
LTE – Band66 (15)	1717.5 – 1772.5	13M4G7D	QPSK	0.264	24.22
		13M5W7D	16QAM	0.232	23.66
		13M5W7D	64QAM	0.183	22.62
LTE – Band66 (20)	1720.0 – 1770.0	17M9G7D	QPSK	0.275	24.40
		17M9W7D	16QAM	0.242	23.84
		17M9W7D	64QAM	0.193	22.86

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a LTE Module with LTE

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, 17383, Rep. 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	- 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
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

3.2 CONDUCTED OUTPUT POWER

Test Overview

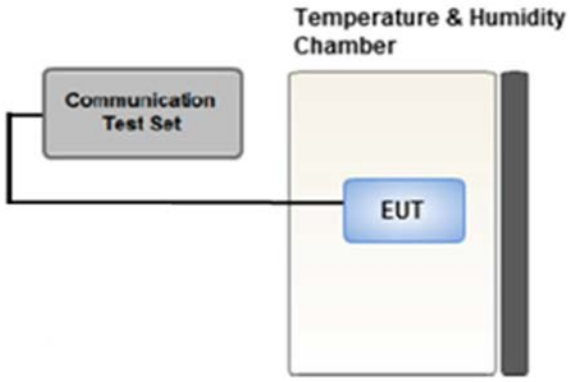
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



3.3 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 in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

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.

3.4 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603-E-2016.

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. 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;

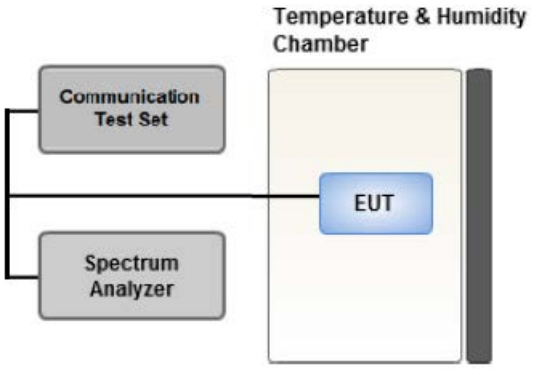
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

$$EIRP_{(dBm)} = ERP_{(dBm)} + 2.15$$

3.5 PEAK- TO- AVERAGE RATIO



Test setup

① 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 %.

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as as P_{Pk}.

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{Avg}. Determine the P.A.R. from:

$$P.A.R_{(dB)} = P_{Pk(dBm)} - P_{Avg(dBm)}$$ (P_{Avg} = Average Power + Duty cycle Factor)

Test Settings(Peak Power)

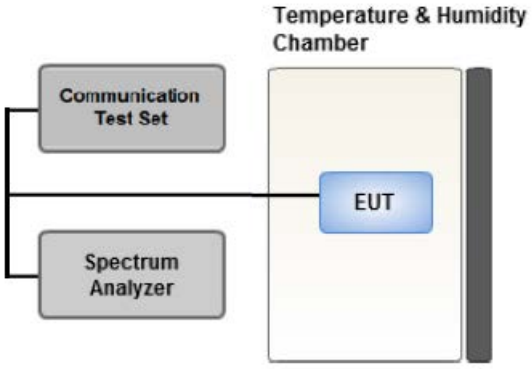
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

1. Set the RBW ≥ OBW.
2. Set VBW ≥ 3 × RBW.
3. Set span ≥ 2 × OBW.
4. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to 2 × to 3 × the OBW.
2. Set RBW ≥ OBW.
3. Set VBW ≥ 3 × RBW.
4. Set number of measurement points in sweep ≥ 2 × span / RBW.
5. Sweep time:
   Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission. For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is a constant 25 %.

3.6 OCCUPIED BANDWIDTH.



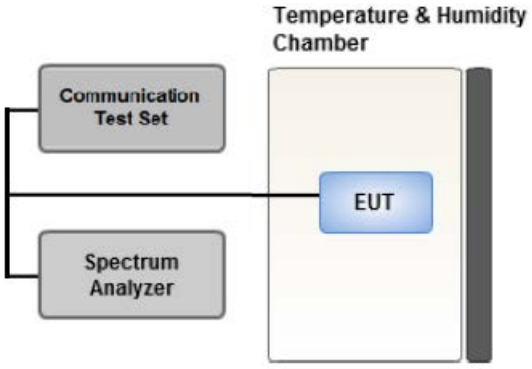
Test setup

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

3.7 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

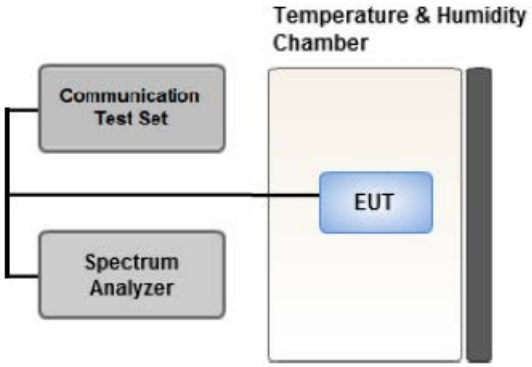
Test Overview

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 = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

3.8 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

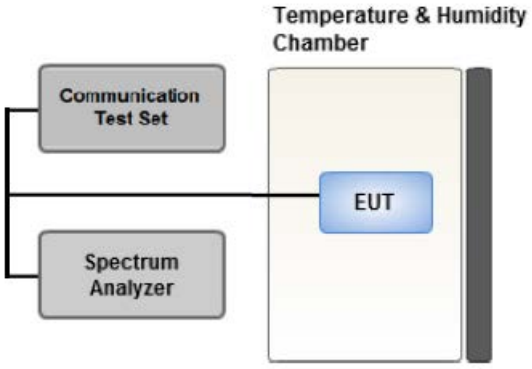
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW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

3.9 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.

3.10 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.
- JIG was used to test the EUT. (EUT + JIG)
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 1.4 MHz)
- The worst case is reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data.
- Please refer to the table below.

[Worst case]

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

3.11 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- JIG was used to test the EUT. (EUT + JIG)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM,	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM,	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Band Edge	QPSK	1.4	Low	1	0
			High	1	5
		3	Low	1	0
			High	1	14
		5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	49
		15	Low	1	0
			High	1	74
		20	Low	1	0
			High	1	99
		1.4, 3, 5, 10, 15, 20	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5, 10, 15, 20	Low, Mid, High	1	0

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	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 (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (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)	5.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, k=2)

6. SUMMARY OF TEST RESULTS

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(h)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	-
Peak- to- Average Ratio	§ 27.50(d)(5)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(d)(4)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(h)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

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 CONDUCTED OUTPUT POWER

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	23.43	22.46	23.05	0	23
		1	3	23.03	22.92	23.48	0	23
		1	5	22.59	22.40	23.97	0	23
		3	0	22.70	22.64	23.29	0	23
		3	1	22.83	22.80	23.36	0	23
		3	3	22.68	22.69	23.41	0	23
		6	0	21.70	21.79	22.27	1	22
	16QAM	1	0	22.43	21.76	22.29	1	22
		1	3	22.30	22.24	22.74	1	22
		1	5	21.88	21.73	23.27	1	22
		3	0	21.78	21.72	22.26	1	22
		3	1	21.86	21.94	22.43	1	22
		3	3	21.73	21.75	22.37	1	22
		6	0	20.76	20.80	21.36	2	21
	64QAM	1	0	21.17	20.71	21.16	2	21
		1	3	21.02	21.24	21.71	2	21
		1	5	20.70	20.73	22.28	2	21
		3	0	20.85	20.76	21.32	2	21
		3	1	21.00	20.93	21.51	2	21
		3	3	20.86	20.92	21.52	2	21
		6	0	19.65	19.74	20.28	3	20

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	22.46	22.45	22.56	0	23
		1	7	22.91	22.85	23.35	0	23
		1	14	22.52	22.48	23.25	0	23
		8	0	21.98	22.03	22.19	1	22
		8	3	21.71	21.83	22.16	1	22
		8	7	21.67	21.70	22.11	1	22
		15	0	21.60	21.75	22.04	1	22
	16QAM	1	0	21.72	21.72	21.74	1	22
		1	7	22.07	22.14	22.55	1	22
		1	14	21.83	21.90	22.39	1	22
		8	0	21.02	20.99	21.17	2	21
		8	3	20.80	20.81	21.18	2	21
		8	7	20.78	20.66	21.25	2	21
		15	0	20.67	20.71	21.04	2	21
	64QAM	1	0	20.52	20.58	20.72	2	21
		1	7	21.04	21.11	21.40	2	21
		1	14	20.77	20.61	21.33	2	21
		8	0	20.05	20.16	20.17	3	20
		8	3	19.86	19.81	20.19	3	20
		8	7	19.69	19.69	20.15	3	20
		15	0	19.61	19.75	20.09	3	20

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.82	21.93	21.58	0	23
		1	12	22.60	22.59	22.72	0	23
		1	24	22.37	22.31	22.52	0	23
		12	0	21.88	21.82	21.73	1	22
		12	6	21.65	21.67	21.72	1	22
		12	11	21.50	21.51	21.62	1	22
		25	0	21.45	21.62	21.60	1	22
	16QAM	1	0	21.06	21.14	20.89	1	22
		1	12	21.87	21.77	21.86	1	22
		1	24	21.53	21.52	21.84	1	22
		12	0	20.87	20.86	20.72	2	21
		12	6	20.68	20.57	20.66	2	21
		12	11	20.56	20.41	20.60	2	21
		25	0	20.52	20.52	20.60	2	21
	64QAM	1	0	19.98	20.09	19.80	2	21
		1	12	20.77	20.70	20.90	2	21
		1	24	20.50	20.36	20.66	2	21
		12	0	19.83	19.91	19.73	3	20
		12	6	19.67	19.63	19.75	3	20
		12	11	19.65	19.47	19.56	3	20
		25	0	19.48	19.55	19.55	3	20

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	22.38	22.00	22.09	0	23
		1	24	22.84	22.60	22.20	0	23
		1	49	22.48	22.67	23.19	0	23
		25	0	21.78	21.65	21.37	1	22
		25	12	22.02	21.88	21.45	1	22
		25	24	21.89	21.91	21.69	1	22
		50	0	21.88	21.72	21.53	1	22
	16QAM	1	0	21.62	21.39	21.44	1	22
		1	24	22.16	21.99	21.55	1	22
		1	49	21.88	22.11	22.39	1	22
		25	0	20.75	20.63	20.28	2	21
		25	12	21.03	20.86	20.41	2	21
		25	24	20.89	20.79	20.79	2	21
		50	0	20.77	20.61	20.51	2	21
	64QAM	1	0	20.66	20.27	20.14	2	21
		1	24	21.03	20.73	20.34	2	21
		1	49	20.65	20.84	21.28	2	21
		25	0	19.68	19.53	19.32	3	20
		25	12	19.86	19.78	19.46	3	20
		25	24	19.75	19.93	19.73	3	20
		50	0	19.64	19.76	19.49	3	20

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	22.17	22.04	22.35	0	23
		1	36	22.62	22.58	22.07	0	23
		1	74	22.16	22.48	22.95	0	23
		36	0	21.39	21.25	21.14	1	22
		36	18	21.58	21.58	21.00	1	22
		36	39	21.41	21.64	21.42	1	22
		75	0	21.46	21.68	21.34	1	22
	16QAM	1	0	21.50	21.38	21.68	1	22
		1	36	21.93	21.86	21.47	1	22
		1	74	21.38	21.94	22.25	1	22
		36	0	20.42	20.21	20.15	2	21
		36	18	20.61	20.54	20.03	2	21
		36	39	20.45	20.63	20.37	2	21
		75	0	20.48	20.64	20.31	2	21
	64QAM	1	0	20.38	20.26	20.53	2	21
		1	36	20.87	20.67	20.23	2	21
		1	74	20.36	20.76	20.98	2	21
		36	0	19.49	19.36	19.44	3	20
		36	18	19.77	19.54	19.14	3	20
		36	39	19.56	19.65	19.33	3	20
		75	0	19.63	19.66	19.25	3	20

Bandwidth	Modulation	RB Size	RB Offset	Max.Average Power (dBm)			Target MPR (dB)	Target Power
				132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	22.37	22.37	22.91	0	23
		1	49	22.54	22.61	22.23	0	23
		1	99	22.34	22.91	23.11	0	23
		50	0	21.78	21.62	21.84	1	22
		50	25	21.73	21.60	21.35	1	22
		50	49	21.59	21.90	21.53	1	22
		100	0	21.72	21.61	21.60	1	22
	16QAM	1	0	21.74	21.63	22.34	1	22
		1	49	21.95	21.88	21.54	1	22
		1	99	21.65	22.08	22.42	1	22
		50	0	20.77	20.68	20.84	2	21
		50	25	20.74	20.65	20.37	2	21
		50	49	20.50	20.85	20.50	2	21
		100	0	20.74	20.78	20.69	2	21
	64QAM	1	0	20.64	20.56	21.15	2	21
		1	49	20.76	20.86	20.49	2	21
		1	99	20.58	21.19	21.29	2	21
		50	0	19.62	19.70	19.89	3	20
		50	25	19.86	19.64	19.53	3	20
		50	49	19.70	19.95	19.54	3	20
		100	0	19.71	19.78	19.64	3	20

8.2 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1710.7	LTE B66 1.4 MHz	QPSK	-18.83	14.37	9.60	1.99	H	< 1.00	0.158	21.98	1	0
		16-QAM	-19.59	13.61	9.60	1.99	H		0.132	21.22		
		64-QAM	-20.86	12.34	9.60	1.99	H		0.099	19.95		
1745.0		QPSK	-16.70	16.90	9.75	2.04	H		0.289	24.61	1	3
		16-QAM	-17.38	16.22	9.75	2.04	H		0.247	23.93		
		64-QAM	-18.48	15.12	9.75	2.04	H		0.192	22.83		
1779.3		QPSK	-16.20	17.26	9.90	2.08	H		0.322	25.08	1	5
		16-QAM	-16.74	16.72	9.90	2.08	H		0.284	24.54		
		64-QAM	-17.51	15.95	9.90	2.08	H		0.238	23.77		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1711.5	LTE B66 3 MHz	QPSK	-19.10	14.10	9.60	1.99	H	< 1.00	0.148	21.71	1	7
		16-QAM	-19.87	13.33	9.60	1.99	H		0.124	20.94		
		64-QAM	-21.05	12.15	9.60	1.99	H		0.095	19.76		
1745.0		QPSK	-16.60	17.00	9.75	2.04	H		0.296	24.71	1	7
		16-QAM	-17.31	16.29	9.75	2.04	H		0.251	24.00		
		64-QAM	-18.53	15.07	9.75	2.04	H		0.190	22.78		
1778.5		QPSK	-16.37	17.09	9.90	2.08	H		0.310	24.91	1	7
		16-QAM	-16.98	16.48	9.90	2.08	H		0.269	24.30		
		64-QAM	-18.00	15.46	9.90	2.08	H		0.213	23.28		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1712.5	LTE B66 5 MHz	QPSK	-19.14	14.22	9.60	2.00	H	< 1.00	0.152	21.82	1	24
		16-QAM	-19.93	13.43	9.60	2.00	H		0.127	21.03		
		64-QAM	-21.17	12.19	9.60	2.00	H		0.095	19.79		
1745.0		QPSK	-17.05	16.55	9.75	2.04	H		0.267	24.26	1	12
		16-QAM	-17.75	15.85	9.75	2.04	H		0.227	23.56		
		64-QAM	-18.86	14.74	9.75	2.04	H		0.176	22.45		
1777.5		QPSK	-16.80	16.74	9.90	2.08	H		0.286	24.56	1	12
		16-QAM	-17.49	16.05	9.90	2.08	H		0.244	23.87		
		64-QAM	-18.59	14.95	9.90	2.08	H		0.189	22.77		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1715.0	LTE B66 10 MHz	QPSK	-18.12	15.24	9.60	2.00	H	< 1.00	0.192	22.84	1	49
		16-QAM	-18.86	14.50	9.60	2.00	H		0.162	22.10		
		64-QAM	-19.87	13.49	9.60	2.00	H		0.129	21.09		
1745.0		QPSK	-16.83	16.77	9.75	2.04	H		0.281	24.48	1	49
		16-QAM	-17.64	15.96	9.75	2.04	H		0.233	23.67		
		64-QAM	-18.51	15.09	9.75	2.04	H		0.191	22.80		
1775.0		QPSK	-17.09	16.45	9.90	2.08	H		0.267	24.27	1	49
		16-QAM	-17.53	16.01	9.90	2.08	H		0.242	23.83		
		64-QAM	-18.53	15.01	9.90	2.08	H		0.192	22.83		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1717.5	LTE B66 15 MHz	QPSK	-18.16	15.20	9.60	2.00	H	< 1.00	0.191	22.80	1	49
		16-QAM	-18.92	14.44	9.60	2.00	H		0.160	22.04		
		64-QAM	-20.08	13.28	9.60	2.00	H		0.123	20.88		
1745.0		QPSK	-17.09	16.51	9.75	2.04	H		0.264	24.22	1	37
		16-QAM	-17.74	15.86	9.75	2.04	H		0.228	23.57		
		64-QAM	-18.90	14.70	9.75	2.04	H		0.174	22.41		
1772.5		QPSK	-17.17	16.37	9.90	2.08	H		0.262	24.19	1	74
		16-QAM	-17.70	15.84	9.90	2.08	H		0.232	23.66		
		64-QAM	-18.74	14.80	9.90	2.08	H		0.183	22.62		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1720.0	LTE B66 20 MHz	QPSK	-18.15	15.35	9.60	2.00	H	< 1.00	0.197	22.95	1	50
		16-QAM	-18.93	14.57	9.60	2.00	H		0.165	22.17		
		64-QAM	-19.99	13.51	9.60	2.00	H		0.129	21.11		
1745.0		QPSK	-17.03	16.57	9.75	2.04	H		0.268	24.28	1	50
		16-QAM	-17.80	15.80	9.75	2.04	H		0.224	23.51		
		64-QAM	-18.88	14.72	9.75	2.04	H		0.175	22.43		
1770.0		QPSK	-17.05	16.59	9.90	2.09	H		0.275	24.40	1	99
		16-QAM	-17.61	16.03	9.90	2.09	H		0.242	23.84		
		64-QAM	-18.59	15.05	9.90	2.09	H		0.193	22.86		

8.3 RADIATED SPURIOUS EMISSIONS

▣ OPERATING FREQUENCY: 1779.3 MHz

▣ MEASURED OUTPUT POWER: 25.08 dBm = 0.322 W

▣ MODE: LTE B66

▣ MODULATION SIGNAL: 1.4 MHz QPSK

▣ DISTANCE: 3 meters

▣ LIMIT: -13 dBm

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	RB	
								Size	Offset
131979 (1710.7)	3 421.40	-51.61	11.10	-52.82	2.95	V	-44.67	1	0
	5 132.10	-58.48	10.80	-52.98	3.62	V	-45.80		
	6 842.80	-51.94	10.70	-41.01	4.32	V	-34.63		
132322 (1745.0)	3 490.00	-52.31	11.20	-53.75	3.00	V	-45.55	1	3
	5 235.00	-56.83	11.10	-51.90	3.70	V	-44.50		
	6 980.00	-55.45	10.90	-42.74	4.30	V	-36.14		
132665 (1779.3)	3 558.60	-54.48	11.40	-56.62	3.01	V	-48.23	1	5
	5 337.90	-52.95	11.40	-47.77	3.75	V	-40.12		
	7 117.20	-52.48	10.50	-38.60	4.39	V	-32.49		

8.4 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
66	1.4 MHz	1745.0	QPSK	6	0	5.52
			16-QAM			6.28
			64-QAM			6.21
	3 MHz		QPSK	15		5.54
			16-QAM			6.19
			64-QAM			6.28
	5 MHz		QPSK	25		5.49
			16-QAM			6.15
			64-QAM			6.24
	10 MHz		QPSK	50		5.50
			16-QAM			6.13
			64-QAM			6.17
	15 MHz		QPSK	75		5.35
			16-QAM			6.05
			64-QAM			6.13
	20 MHz		QPSK	100		5.26
			16-QAM			6.05
			64-QAM			6.19

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 58 ~ 75.

8.5 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
66	1.4 MHz	1745.0	QPSK	6	0	1.1155
			16-QAM			1.1112
			64-QAM			1.1292
	3 MHz		QPSK	15		2.7364
			16-QAM			2.7261
			64-QAM			2.7155
	5 MHz		QPSK	25		4.5158
			16-QAM			4.5007
			64-QAM			4.5174
	10 MHz		QPSK	50		8.9635
			16-QAM			8.9644
			64-QAM			8.9722
	15 MHz		QPSK	75		13.417
			16-QAM			13.448
			64-QAM			13.449
	20 MHz		QPSK	100		17.907
			16-QAM			17.874
			64-QAM			17.863

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 76 ~ 93.

8.6 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
66	1.4	1710.7	3.8380	30.243	-70.301	-40.058	-13.00
		1745.0	5.4766	30.965	-70.448	-39.483	
		1779.3	9.9556	30.965	-69.872	-38.907	
	3	1711.5	4.0399	30.243	-69.417	-39.174	
		1745.0	7.1695	30.965	-70.408	-39.443	
		1778.5	8.8913	30.965	-70.516	-39.551	
	5	1712.5	8.2847	30.965	-70.359	-39.394	
		1745.0	5.2184	30.965	-70.464	-39.499	
		1777.5	8.8300	30.965	-70.729	-39.764	
	10	1715.0	9.9556	30.965	-69.933	-38.968	
		1745.0	3.7902	30.243	-70.248	-40.005	
		1775.0	9.9786	30.965	-70.480	-39.515	
	15	1717.5	7.9950	30.965	-70.259	-39.294	
		1745.0	9.4053	30.965	-71.130	-40.165	
		1772.5	3.7962	30.243	-69.969	-39.726	
	20	1720.0	4.9866	30.243	-70.266	-40.023	
		1745.0	9.1550	30.965	-70.629	-39.664	
		1770.0	8.2961	30.965	-69.948	-38.983	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 94 ~ 129.
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	27.600
1 – 5	30.243
5 – 10	30.965
10 – 15	31.571
15 – 20	31.935
Above 20(26.5)	32.510

8.7 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 130 ~ 165.

8.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ MODE: LTE 66

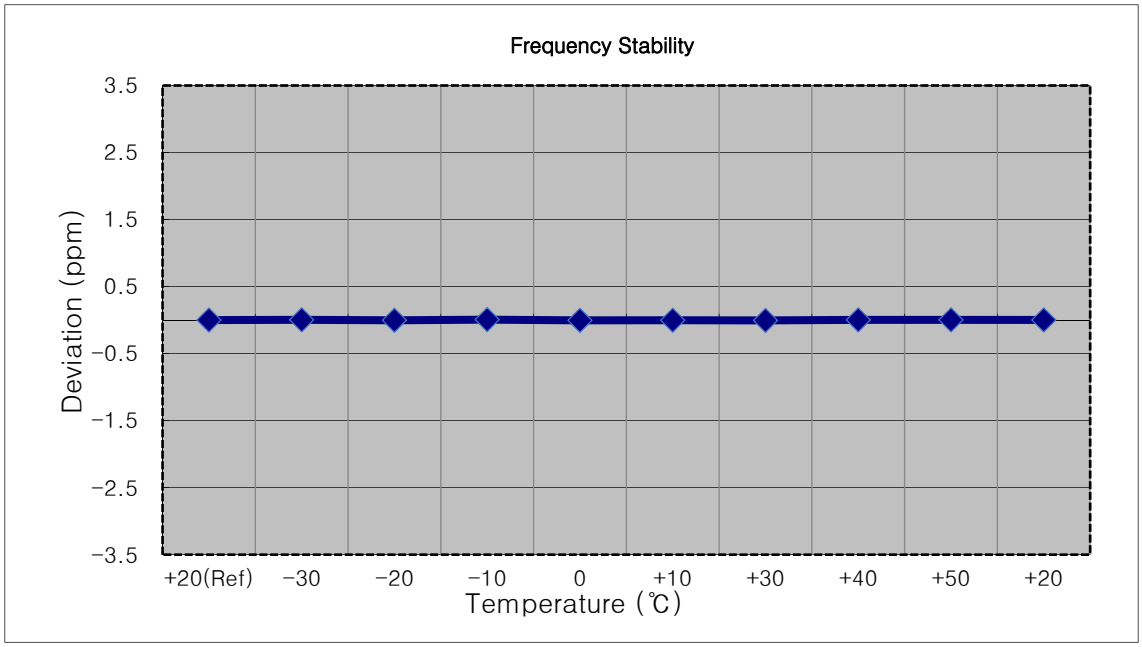
▣ OPERATING FREQUENCY: 1710,700,000 Hz

▣ CHANNEL: 131979 (1.4 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1710 700 006	0.0	0.000 000	0.000
100 %		-30	1710 700 012	6.0	0.000 000	0.004
100 %		-20	1710 700 000	-5.6	0.000 000	-0.003
100 %		-10	1710 700 017	11.0	0.000 001	0.006
100 %		0	1710 699 998	-7.7	0.000 000	-0.005
100 %		+10	1710 700 001	-4.3	0.000 000	-0.003
100 %		+30	1710 699 997	-8.7	-0.000 001	-0.005
100 %		+40	1710 700 010	4.5	0.000 000	0.003
100 %		+50	1710 700 010	4.4	0.000 000	0.003
Batt. Endpoint	2.800	+20	1710 700 009	3.0	0.000 000	0.002



▣ MODE: LTE 66

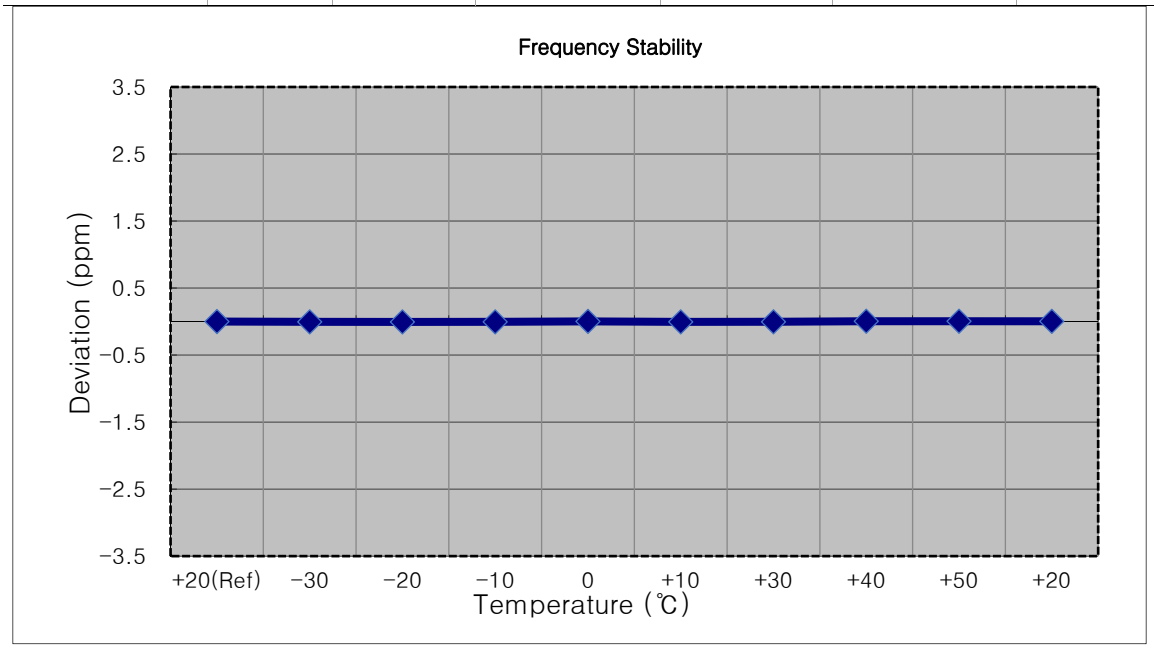
▣ OPERATING FREQUENCY: 1711,500,000 Hz

▣ CHANNEL: 131987 (3 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1711 500 006	0.0	0.000 000	0.000
100 %		-30	1711 499 999	-7.3	0.000 000	-0.004
100 %		-20	1711 499 997	-9.4	-0.000 001	-0.005
100 %		-10	1711 499 999	-7.7	0.000 000	-0.004
100 %		0	1711 500 010	4.2	0.000 000	0.002
100 %		+10	1711 499 998	-7.8	0.000 000	-0.005
100 %		+30	1711 500 000	-6.3	0.000 000	-0.004
100 %		+40	1711 500 014	8.0	0.000 000	0.005
100 %		+50	1711 500 014	8.2	0.000 000	0.005
Batt. Endpoint	2.800	+20	1711 500 013	6.4	0.000 000	0.004



▣ MODE: LTE 66

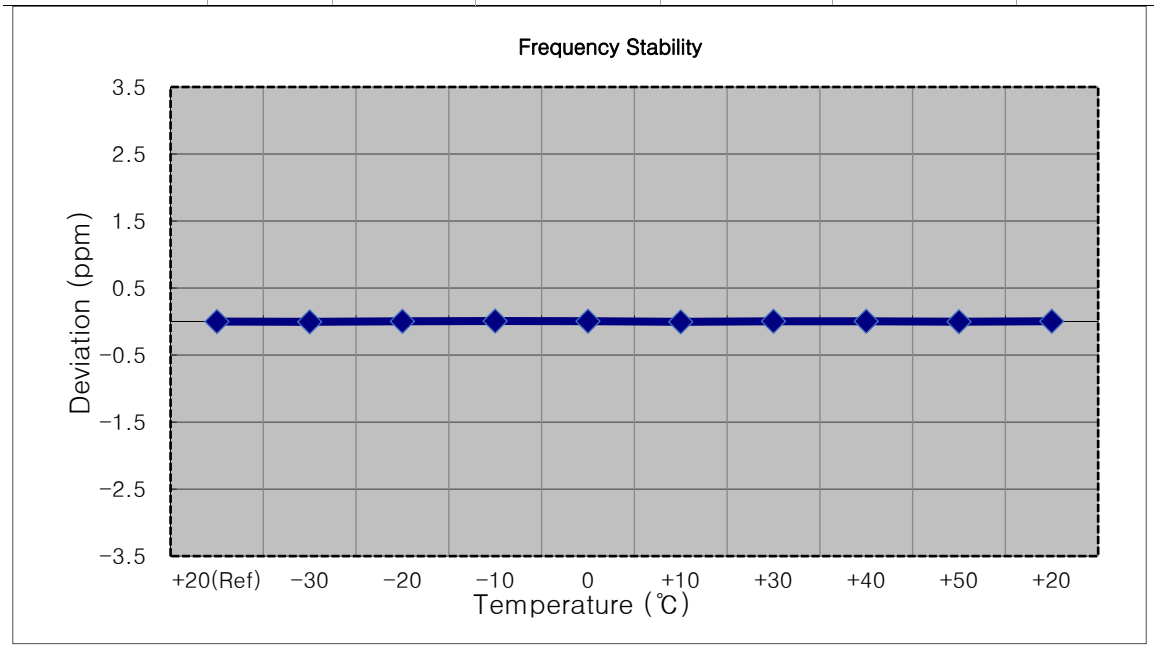
▣ OPERATING FREQUENCY: 1712,500,000 Hz

▣ CHANNEL: 131997 (5 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1712 500 005	0.0	0.000 000	0.000
100 %		-30	1712 499 997	-7.7	0.000 000	-0.004
100 %		-20	1712 500 011	6.1	0.000 000	0.004
100 %		-10	1712 500 018	13.2	0.000 001	0.008
100 %		0	1712 500 014	9.3	0.000 001	0.005
100 %		+10	1712 499 997	-7.2	0.000 000	-0.004
100 %		+30	1712 500 011	6.6	0.000 000	0.004
100 %		+40	1712 500 011	6.7	0.000 000	0.004
100 %		+50	1712 500 001	-3.8	0.000 000	-0.002
Batt. Endpoint	2.800	+20	1712 500 012	7.7	0.000 000	0.004



▣ MODE: LTE 66

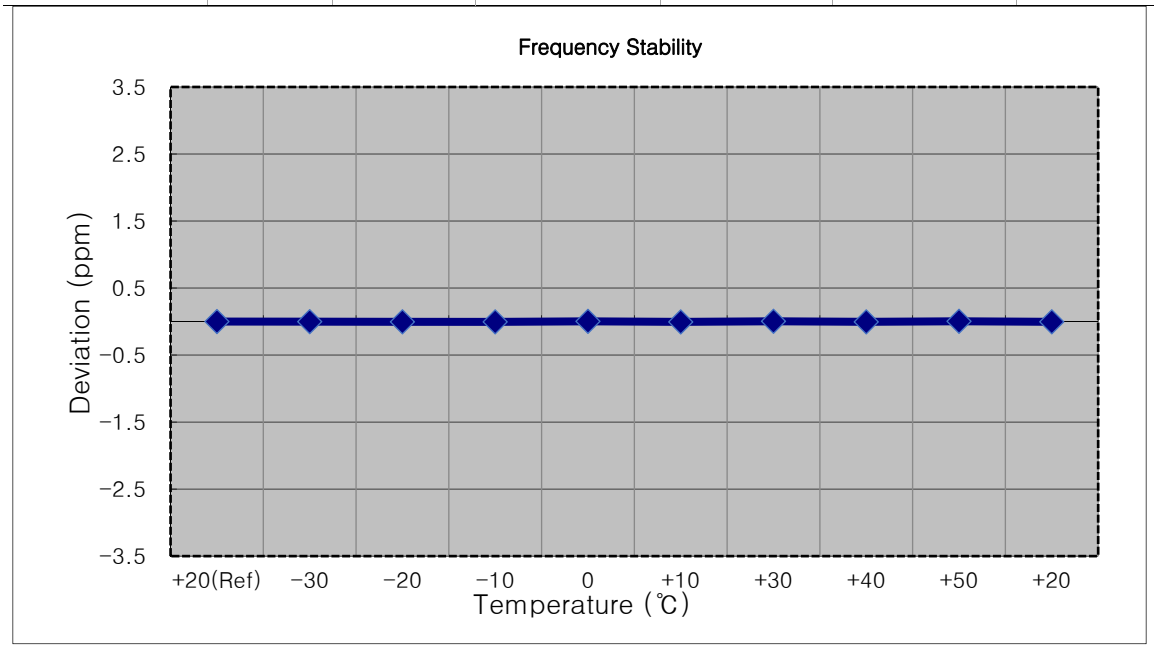
▣ OPERATING FREQUENCY: 1715,000,000 Hz

▣ CHANNEL: 132022 (10 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1714 999 994	0.0	0.000 000	0.000
100 %		-30	1714 999 992	-2.5	0.000 000	-0.001
100 %		-20	1714 999 988	-6.4	0.000 000	-0.004
100 %		-10	1714 999 986	-8.4	0.000 000	-0.005
100 %		0	1714 999 999	5.4	0.000 000	0.003
100 %		+10	1714 999 985	-8.9	-0.000 001	-0.005
100 %		+30	1715 000 001	7.1	0.000 000	0.004
100 %		+40	1714 999 987	-7.5	0.000 000	-0.004
100 %		+50	1715 000 001	6.7	0.000 000	0.004
Batt. Endpoint	2.800	+20	1714 999 987	-6.6	0.000 000	-0.004



▣ MODE: LTE 66

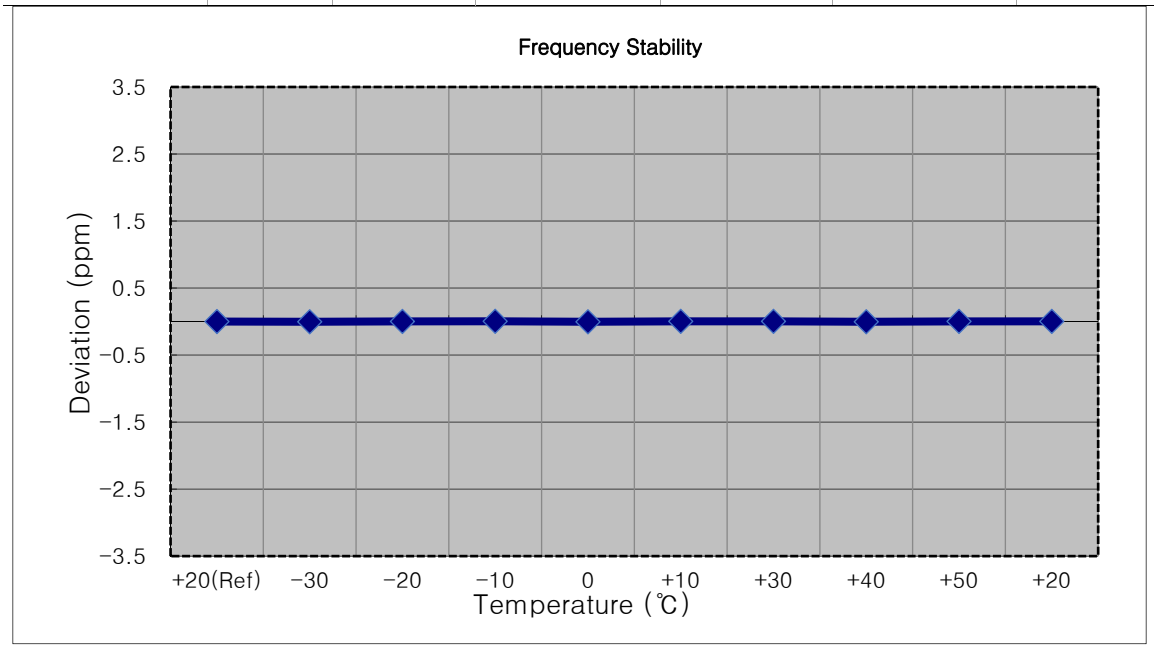
▣ OPERATING FREQUENCY: 1717,500,000 Hz

▣ CHANNEL: 132047 (15 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1717 500 006	0.0	0.000 000	0.000
100 %		-30	1717 500 001	-5.1	0.000 000	-0.003
100 %		-20	1717 500 009	3.2	0.000 000	0.002
100 %		-10	1717 500 013	7.3	0.000 000	0.004
100 %		0	1717 500 000	-6.1	0.000 000	-0.004
100 %		+10	1717 500 012	5.9	0.000 000	0.003
100 %		+30	1717 500 012	5.9	0.000 000	0.003
100 %		+40	1717 500 001	-5.6	0.000 000	-0.003
100 %		+50	1717 500 010	4.1	0.000 000	0.002
Batt. Endpoint	2.800	+20	1717 500 011	4.9	0.000 000	0.003



▣ MODE: LTE 66

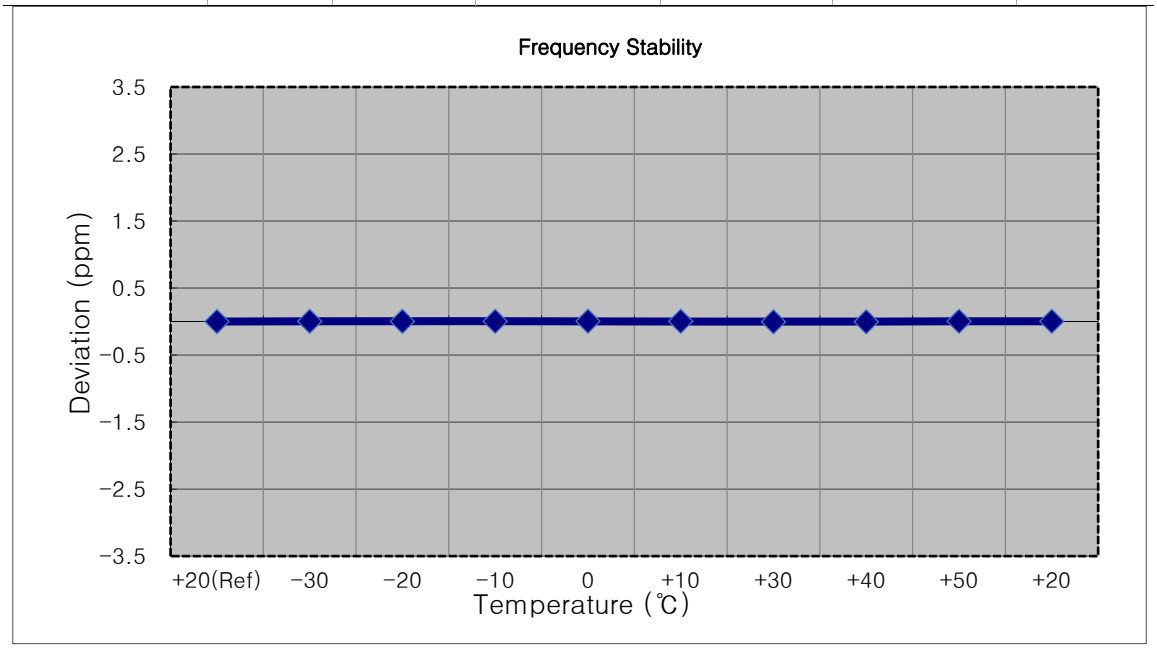
▣ OPERATING FREQUENCY: 1720,000,000 Hz

▣ CHANNEL: 132072 (20 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1720 000 003	0.0	0.000 000	0.000
100 %		-30	1720 000 009	6.4	0.000 000	0.004
100 %		-20	1720 000 007	4.0	0.000 000	0.002
100 %		-10	1720 000 009	5.8	0.000 000	0.003
100 %		0	1720 000 011	8.1	0.000 000	0.005
100 %		+10	1720 000 010	6.9	0.000 000	0.004
100 %		+30	1719 999 998	-5.3	0.000 000	-0.003
100 %		+40	1719 999 997	-5.9	0.000 000	-0.003
100 %		+50	1720 000 010	7.0	0.000 000	0.004
Batt. Endpoint	2.800	+20	1720 000 009	6.1	0.000 000	0.004



▣ MODE: LTE 66

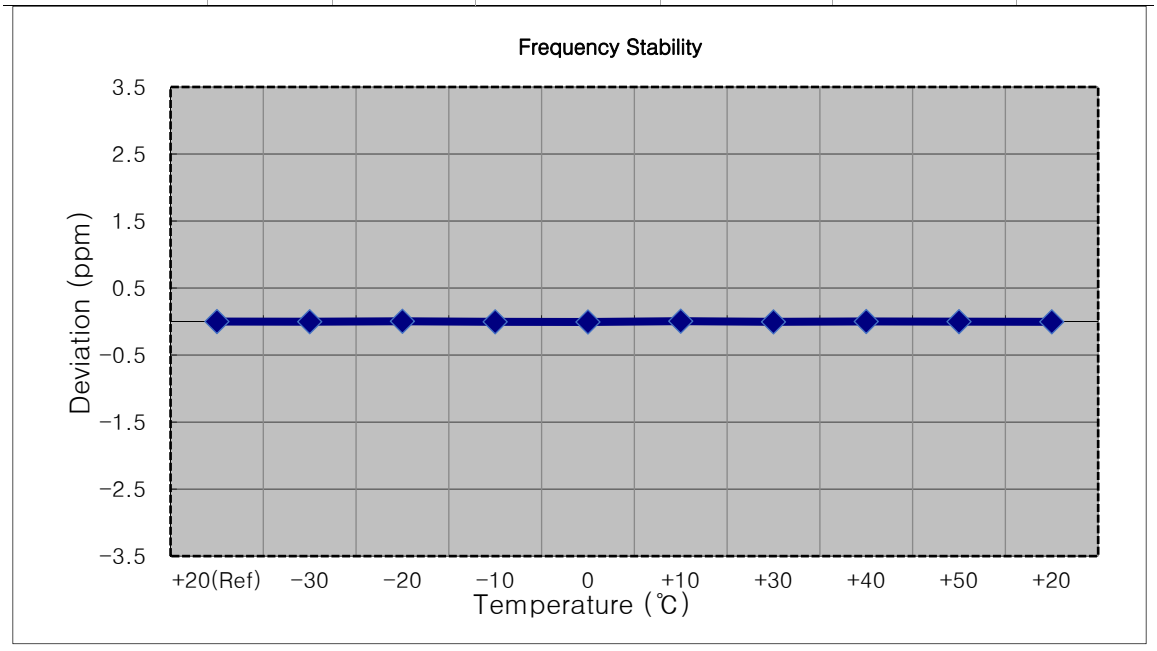
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (1.4 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1744 999 995	0.0	0.000 000	0.000
100 %		-30	1744 999 991	-3.8	0.000 000	-0.002
100 %		-20	1745 000 002	7.0	0.000 000	0.004
100 %		-10	1744 999 988	-6.6	0.000 000	-0.004
100 %		0	1744 999 984	-10.9	-0.000 001	-0.006
100 %		+10	1745 000 005	9.7	0.000 001	0.006
100 %		+30	1744 999 987	-7.6	0.000 000	-0.004
100 %		+40	1744 999 997	2.1	0.000 000	0.001
100 %		+50	1744 999 992	-2.8	0.000 000	-0.002
Batt. Endpoint	2.800	+20	1744 999 988	-6.9	0.000 000	-0.004



▣ MODE: LTE 66

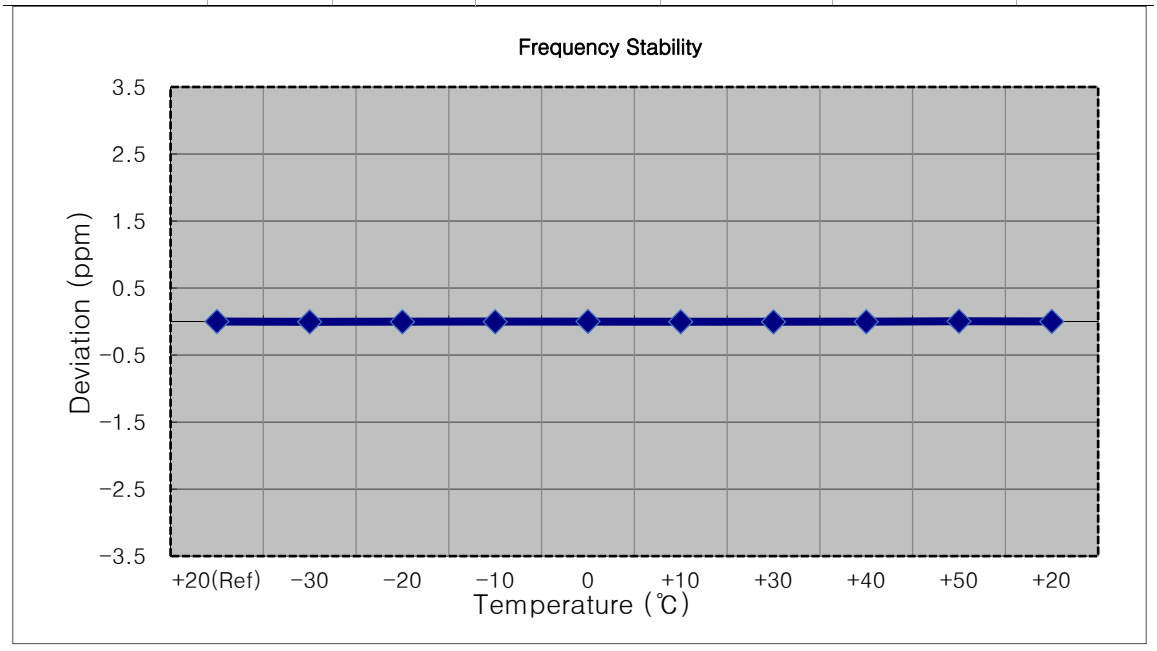
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (3 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1744 999 994	0.0	0.000 000	0.000
100 %		-30	1744 999 987	-7.3	0.000 000	-0.004
100 %		-20	1744 999 988	-6.1	0.000 000	-0.003
100 %		-10	1744 999 988	-6.3	0.000 000	-0.004
100 %		0	1744 999 998	3.3	0.000 000	0.002
100 %		+10	1744 999 991	-3.2	0.000 000	-0.002
100 %		+30	1744 999 987	-7.3	0.000 000	-0.004
100 %		+40	1744 999 989	-5.4	0.000 000	-0.003
100 %		+50	1745 000 002	7.8	0.000 000	0.004
Batt. Endpoint	2.800	+20	1744 999 996	2.1	0.000 000	0.001



▣ MODE: LTE 66

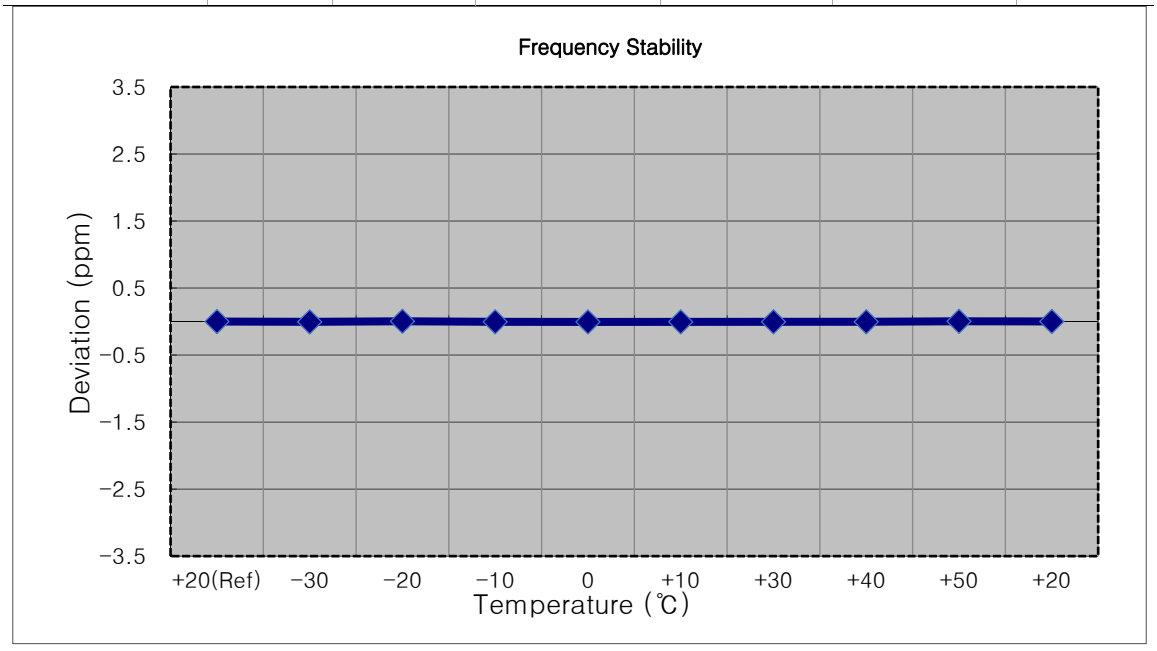
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (5 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1744 999 995	0.0	0.000 000	0.000
100 %		-30	1744 999 988	-7.6	0.000 000	-0.004
100 %		-20	1745 000 003	7.3	0.000 000	0.004
100 %		-10	1744 999 988	-6.8	0.000 000	-0.004
100 %		0	1744 999 986	-9.4	-0.000 001	-0.005
100 %		+10	1744 999 987	-8.0	0.000 000	-0.005
100 %		+30	1744 999 989	-6.6	0.000 000	-0.004
100 %		+40	1744 999 989	-5.8	0.000 000	-0.003
100 %		+50	1745 000 002	6.5	0.000 000	0.004
Batt. Endpoint	2.800	+20	1744 999 997	2.2	0.000 000	0.001



▣ MODE: LTE 66

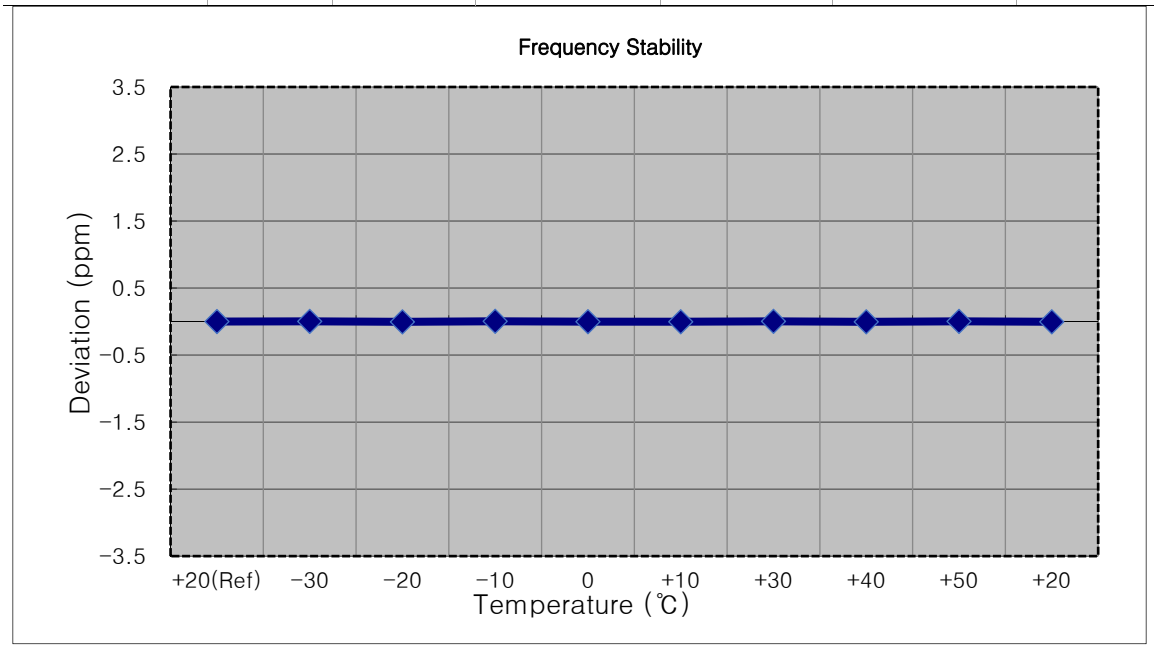
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (10 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %		+20(Ref)	1745 000 006	0.0	0.000 000	0.000
100 %		-30	1745 000 011	4.9	0.000 000	0.003
100 %		-20	1744 999 999	-7.2	0.000 000	-0.004
100 %		-10	1745 000 013	7.2	0.000 000	0.004
100 %	3.300	0	1745 000 003	-3.0	0.000 000	-0.002
100 %		+10	1745 000 002	-4.5	0.000 000	-0.003
100 %		+30	1745 000 012	5.8	0.000 000	0.003
100 %		+40	1744 999 999	-7.1	0.000 000	-0.004
100 %		+50	1745 000 011	4.7	0.000 000	0.003
Batt. Endpoint	2.800	+20	1745 000 000	-5.8	0.000 000	-0.003



▣ MODE: LTE 66

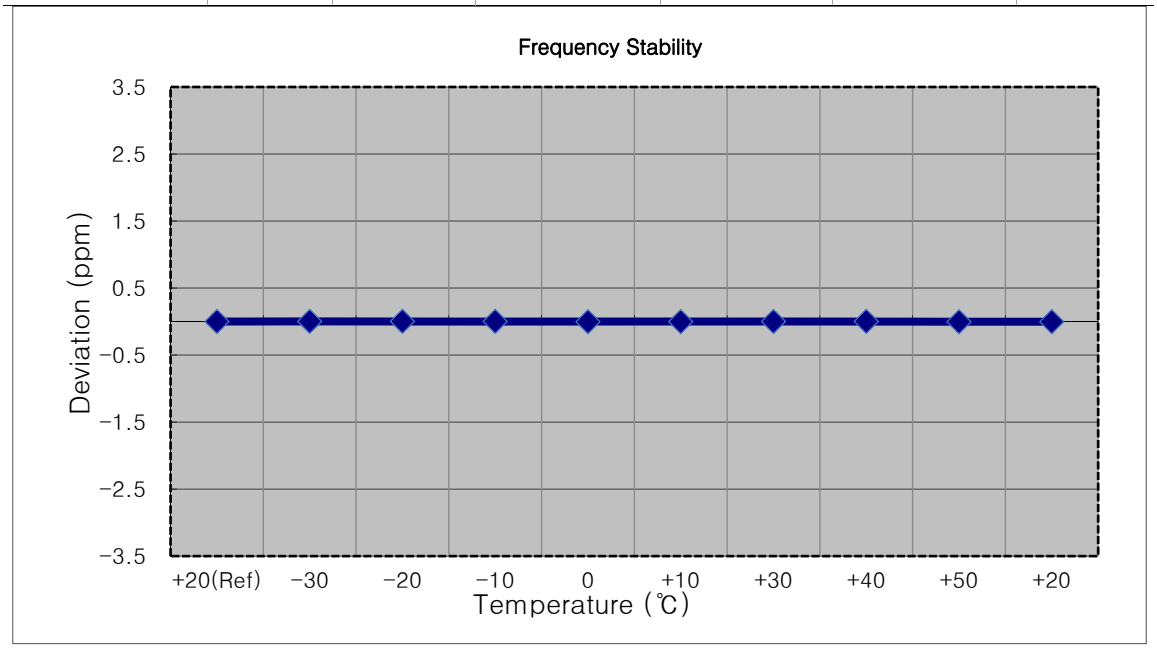
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (15 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %		+20(Ref)	1745 000 006	0.0	0.000 000	0.000
100 %		-30	1745 000 010	4.6	0.000 000	0.003
100 %		-20	1745 000 012	5.9	0.000 000	0.003
100 %		-10	1745 000 010	4.1	0.000 000	0.002
100 %	3.300	0	1745 000 001	-5.2	0.000 000	-0.003
100 %		+10	1745 000 003	-2.6	0.000 000	-0.001
100 %		+30	1745 000 008	2.1	0.000 000	0.001
100 %		+40	1745 000 011	5.3	0.000 000	0.003
100 %		+50	1745 000 001	-4.7	0.000 000	-0.003
Batt. Endpoint	2.800	+20	1745 000 002	-4.2	0.000 000	-0.002



▣ MODE: LTE 66

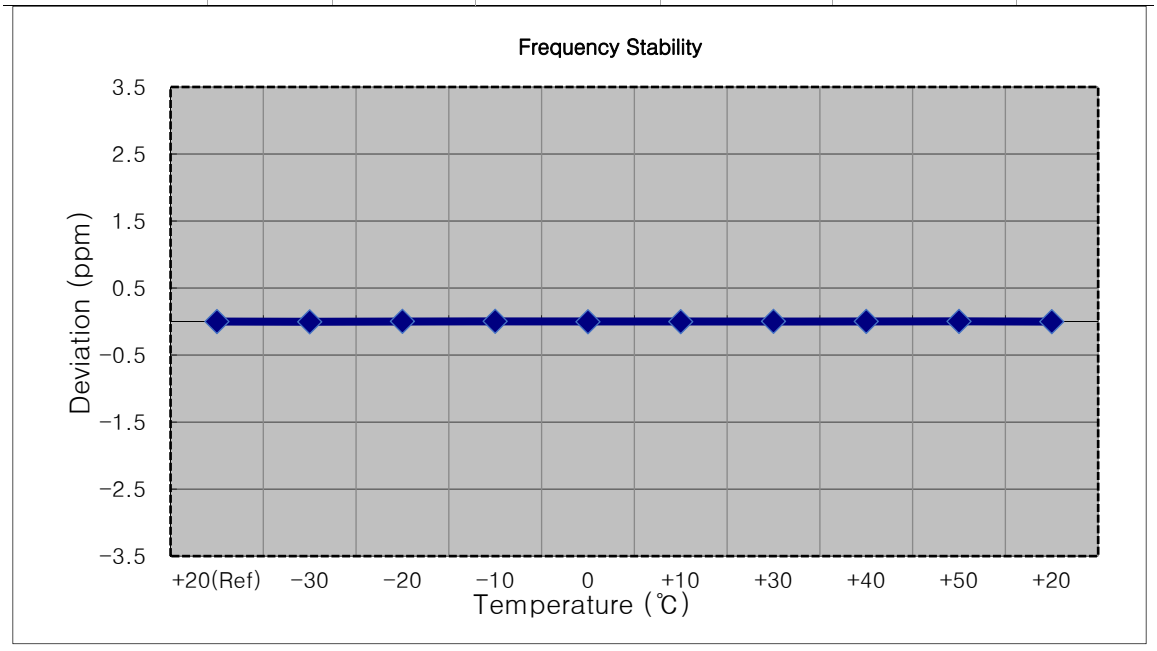
▣ OPERATING FREQUENCY: 1745,000,000 Hz

▣ CHANNEL: 132322 (20 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1745 000 004	0.0	0.000 000	0.000
100 %		-30	1744 999 997	-6.2	0.000 000	-0.004
100 %		-20	1745 000 009	5.5	0.000 000	0.003
100 %		-10	1745 000 011	7.2	0.000 000	0.004
100 %		0	1744 999 999	-4.5	0.000 000	-0.003
100 %		+10	1745 000 001	-2.5	0.000 000	-0.001
100 %		+30	1745 000 010	6.3	0.000 000	0.004
100 %		+40	1745 000 008	4.4	0.000 000	0.003
100 %		+50	1745 000 009	4.9	0.000 000	0.003
Batt. Endpoint	2.800	+20	1745 000 001	-2.3	0.000 000	-0.001



▣ MODE: LTE 66

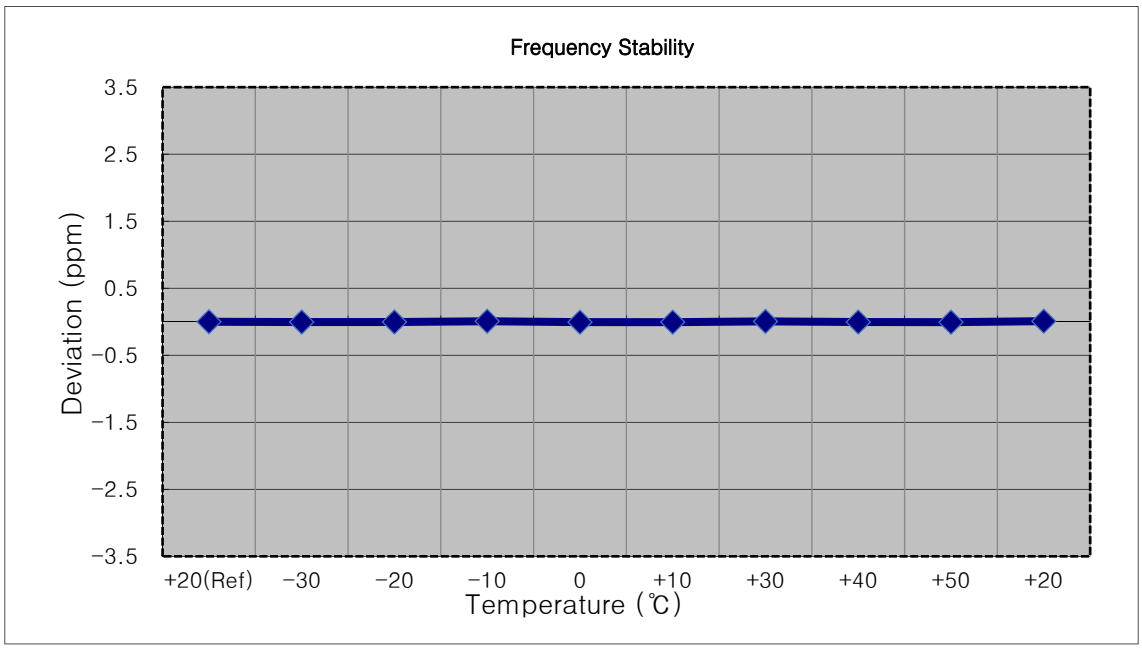
▣ OPERATING FREQUENCY: 1779,300,000 Hz

▣ CHANNEL: 132665 (1.4 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %		+20(Ref)	1779 300 009	0.0	0.000 000	0.000
100 %		-30	1779 300 000	-8.5	0.000 000	-0.005
100 %		-20	1779 300 002	-7.2	0.000 000	-0.004
100 %		-10	1779 300 022	12.9	0.000 001	0.007
100 %	3.300	0	1779 299 998	-11.1	-0.000 001	-0.006
100 %		+10	1779 299 997	-11.4	-0.000 001	-0.006
100 %		+30	1779 300 018	8.8	0.000 000	0.005
100 %		+40	1779 300 001	-7.6	0.000 000	-0.004
100 %		+50	1779 299 997	-11.9	-0.000 001	-0.007
Batt. Endpoint	2.800	+20	1779 300 023	14.6	0.000 001	0.008



▣ MODE: LTE 66

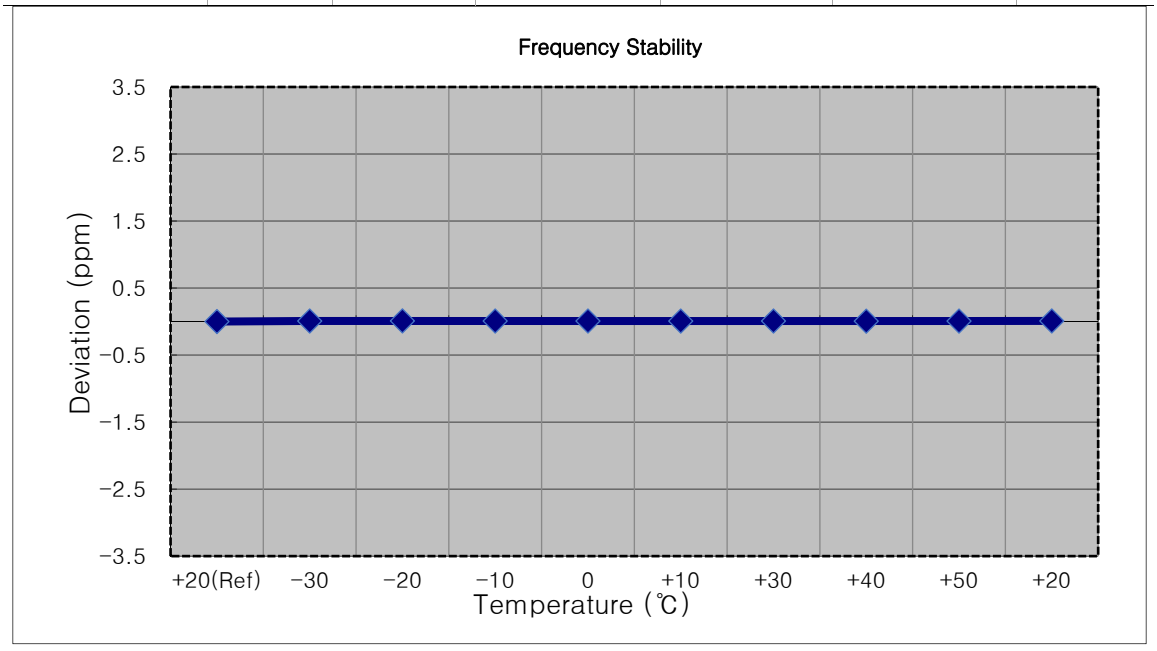
▣ OPERATING FREQUENCY: 1778,500,000 Hz

▣ CHANNEL: 132657 (3 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %		+20(Ref)	1778 500 015	0.0	0.000 000	0.000
100 %		-30	1778 500 030	15.0	0.000 001	0.008
100 %		-20	1778 500 033	17.3	0.000 001	0.010
100 %		-10	1778 500 030	14.4	0.000 001	0.008
100 %	3.300	0	1778 500 030	14.7	0.000 001	0.008
100 %		+10	1778 500 028	12.9	0.000 001	0.007
100 %		+30	1778 500 030	15.1	0.000 001	0.008
100 %		+40	1778 500 025	9.8	0.000 001	0.006
100 %		+50	1778 500 029	13.4	0.000 001	0.008
Batt. Endpoint	2.800	+20	1778 500 032	16.3	0.000 001	0.009



▣ MODE: LTE 66

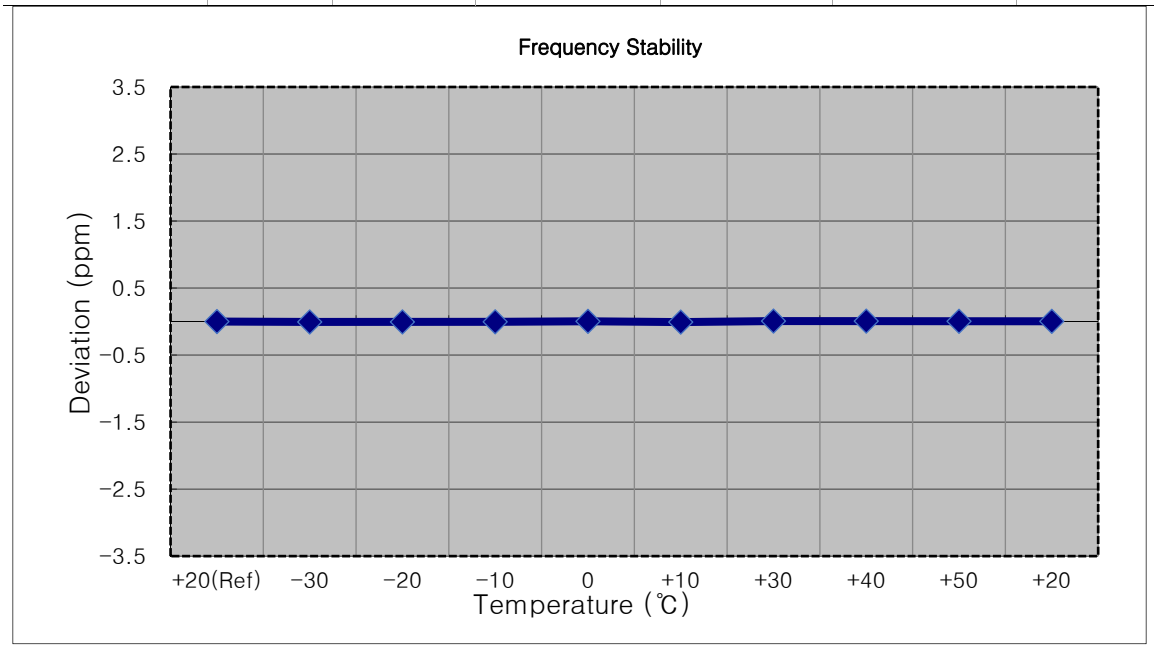
▣ OPERATING FREQUENCY: 1777,500,000 Hz

▣ CHANNEL: 132647 (5 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1777 500 010	0.0	0.000 000	0.000
100 %		-30	1777 500 000	-10.3	-0.000 001	-0.006
100 %		-20	1777 500 001	-9.4	-0.000 001	-0.005
100 %		-10	1777 500 003	-7.2	0.000 000	-0.004
100 %		0	1777 500 017	6.8	0.000 000	0.004
100 %		+10	1777 499 996	-14.3	-0.000 001	-0.008
100 %		+30	1777 500 023	12.6	0.000 001	0.007
100 %		+40	1777 500 022	11.8	0.000 001	0.007
100 %		+50	1777 500 018	8.2	0.000 000	0.005
Batt. Endpoint	2.800	+20	1777 500 017	6.8	0.000 000	0.004



▣ MODE: LTE 66

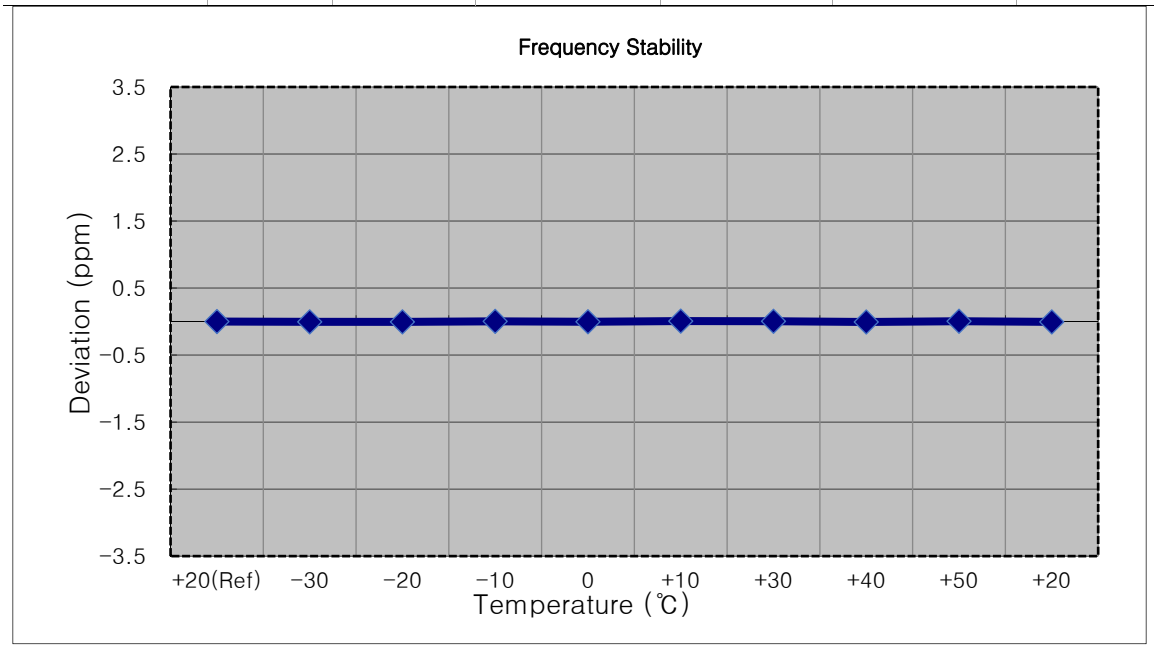
▣ OPERATING FREQUENCY: 1775,000,000 Hz

▣ CHANNEL: 132622 (10 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1774 999 992	0.0	0.000 000	0.000
100 %		-30	1774 999 985	-7.4	0.000 000	-0.004
100 %		-20	1774 999 984	-8.0	0.000 000	-0.005
100 %		-10	1774 999 999	6.1	0.000 000	0.003
100 %		0	1774 999 987	-5.6	0.000 000	-0.003
100 %		+10	1775 000 005	12.2	0.000 001	0.007
100 %		+30	1775 000 000	8.0	0.000 000	0.005
100 %		+40	1774 999 981	-11.1	-0.000 001	-0.006
100 %		+50	1775 000 001	8.7	0.000 000	0.005
Batt. Endpoint	2.800	+20	1774 999 984	-8.8	0.000 000	-0.005



▣ MODE: LTE 66

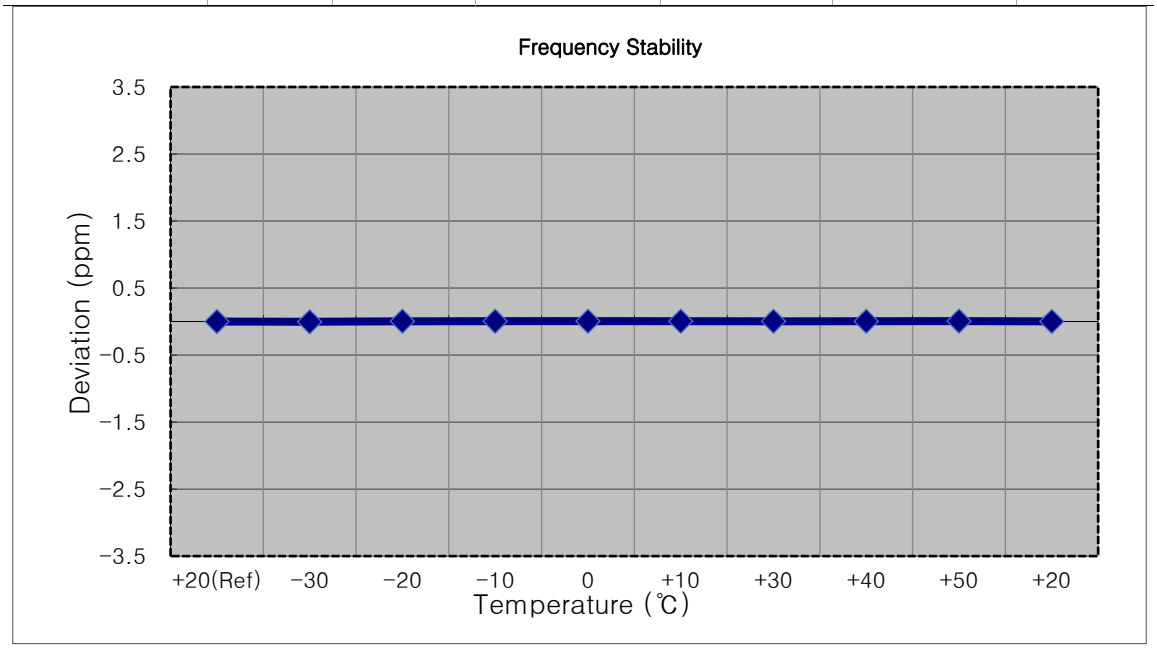
▣ OPERATING FREQUENCY: 1772,500,000 Hz

▣ CHANNEL: 132597 (15 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.300	+20(Ref)	1772 500 006	0.0	0.000 000	0.000
100 %		-30	1772 500 000	-6.2	0.000 000	-0.003
100 %		-20	1772 500 017	10.5	0.000 001	0.006
100 %		-10	1772 500 015	8.7	0.000 000	0.005
100 %		0	1772 500 014	8.1	0.000 000	0.005
100 %		+10	1772 500 015	8.6	0.000 000	0.005
100 %		+30	1772 500 015	9.0	0.000 001	0.005
100 %		+40	1772 500 014	8.2	0.000 000	0.005
100 %		+50	1772 500 018	11.7	0.000 001	0.007
Batt. Endpoint	2.800	+20	1772 500 010	3.7	0.000 000	0.002



▣ MODE: LTE 66

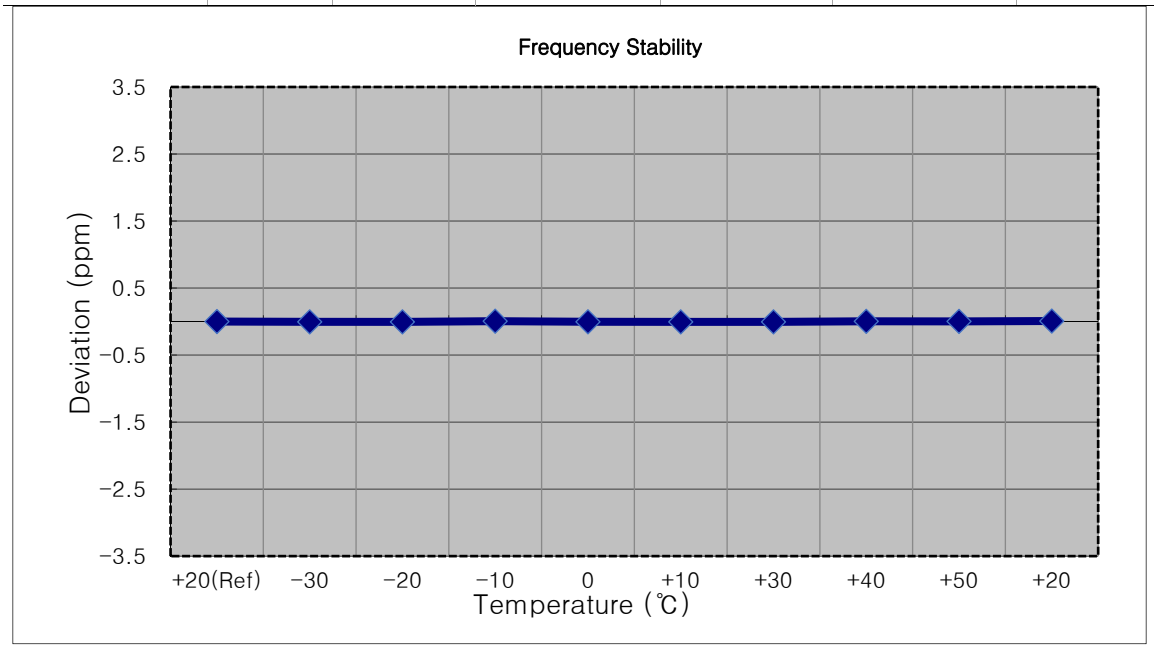
▣ OPERATING FREQUENCY: 1770,000,000 Hz

▣ CHANNEL: 132572 (20 MHz)

▣ REFERENCE VOLTAGE: 3.300 VDC

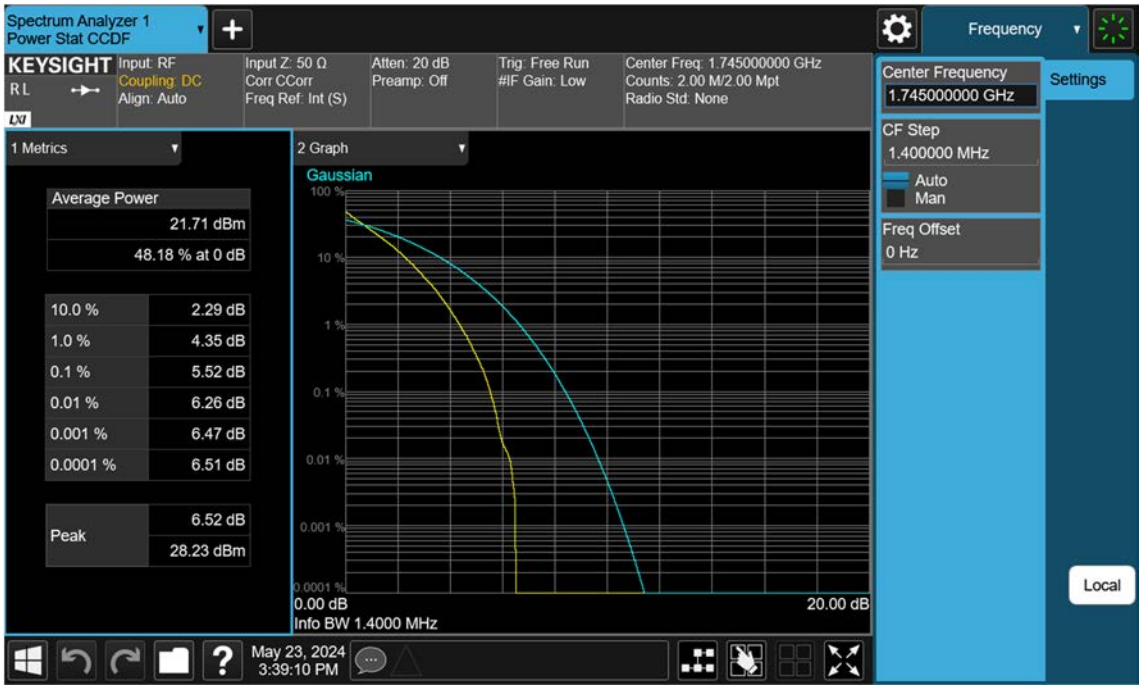
▣ DEVIATION LIMIT: Emission must remain in band

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %		+20(Ref)	1770 000 008	0.0	0.000 000	0.000
100 %		-30	1770 000 000	-7.3	0.000 000	-0.004
100 %		-20	1769 999 999	-8.3	0.000 000	-0.005
100 %		-10	1770 000 018	10.2	0.000 001	0.006
100 %	3.300	0	1770 000 002	-6.0	0.000 000	-0.003
100 %		+10	1769 999 999	-8.6	0.000 000	-0.005
100 %		+30	1769 999 999	-8.1	0.000 000	-0.005
100 %		+40	1770 000 014	6.2	0.000 000	0.004
100 %		+50	1770 000 012	4.4	0.000 000	0.002
Batt. Endpoint	2.800	+20	1770 000 021	13.2	0.000 001	0.007



9. TEST PLOTS

LTE B66_1.4 M_PAR_Mid_QPSK_FullRB



LTE B66_1.4 M_PAR_Mid_16QAM_FullRB

LTE B66_1.4 M_PAR_Mid_64QAM_FullRB

LTE B66_3 M_PAR_Mid_QPSK_FullRB

LTE B66_3 M_PAR_Mid_16QAM_FullRB

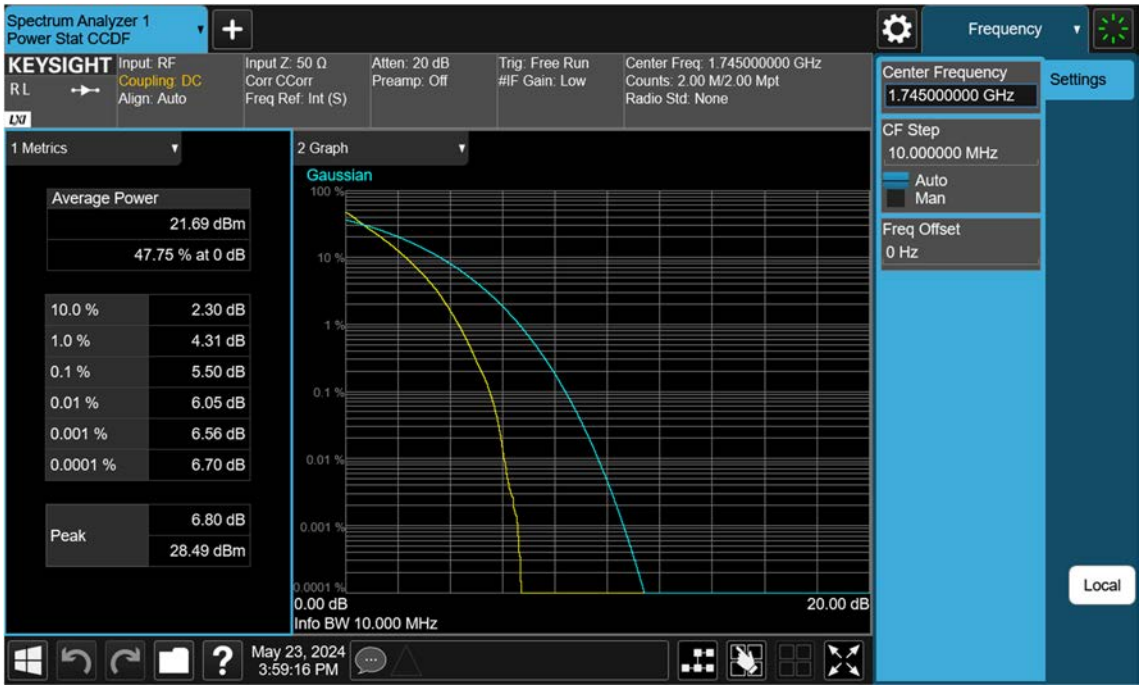
LTE B66_3 M_PAR_Mid_64QAM_FullRB

LTE B66_5 M_PAR_Mid_QPSK_FullRB

LTE B66_5 M_PAR_Mid_16QAM_FullRB

LTE B66_5 M_PAR_Mid_64QAM_FullRB

LTE B66_10 M_PAR_Mid_QPSK_FullRB



LTE B66_10 M_PAR_Mid_16QAM_FullRB

LTE B66_10 M_PAR_Mid_64QAM_FullRB

LTE B66_15 M_PAR_Mid_QPSK_FullRB

LTE B66_15 M_PAR_Mid_16QAM_FullRB

LTE B66_15 M_PAR_Mid_64QAM_FullRB

LTE B66_20 M_PAR_Mid_QPSK_FullRB

LTE B66_20 M_PAR_Mid_16QAM_FullRB

LTE B66_20 M_PAR_Mid_64QAM_FullRB

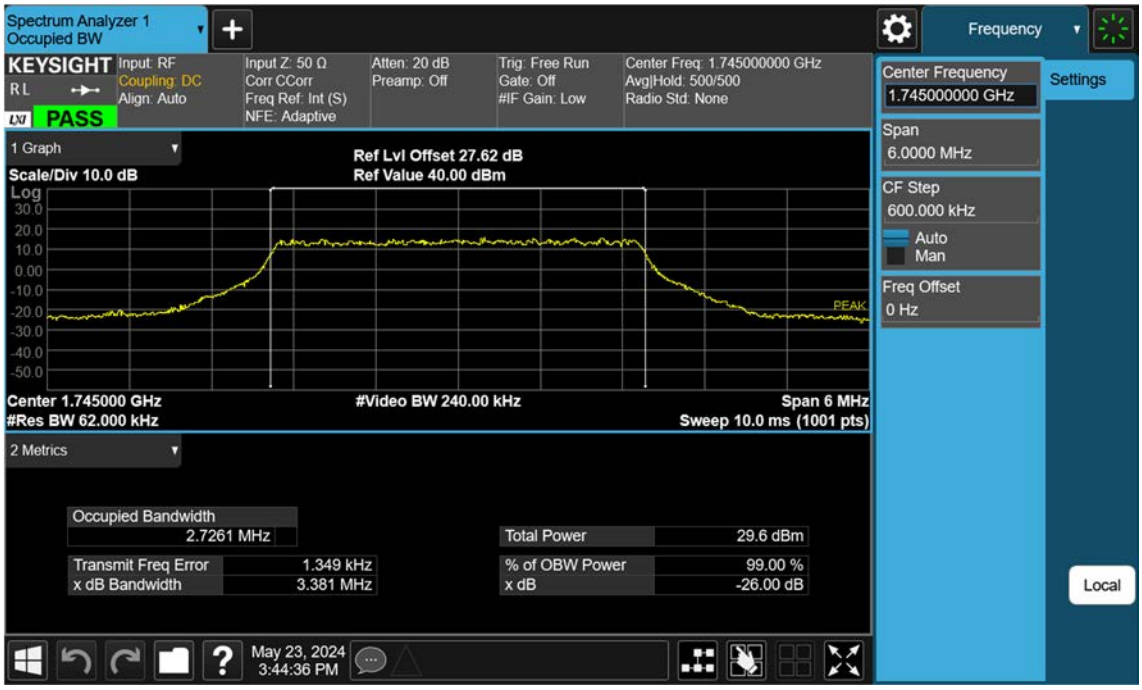
LTE B66_1.4 M_OBW_Mid_QPSK_FullRB

LTE B66_1.4 M_OBW_Mid_16QAM_FullRB

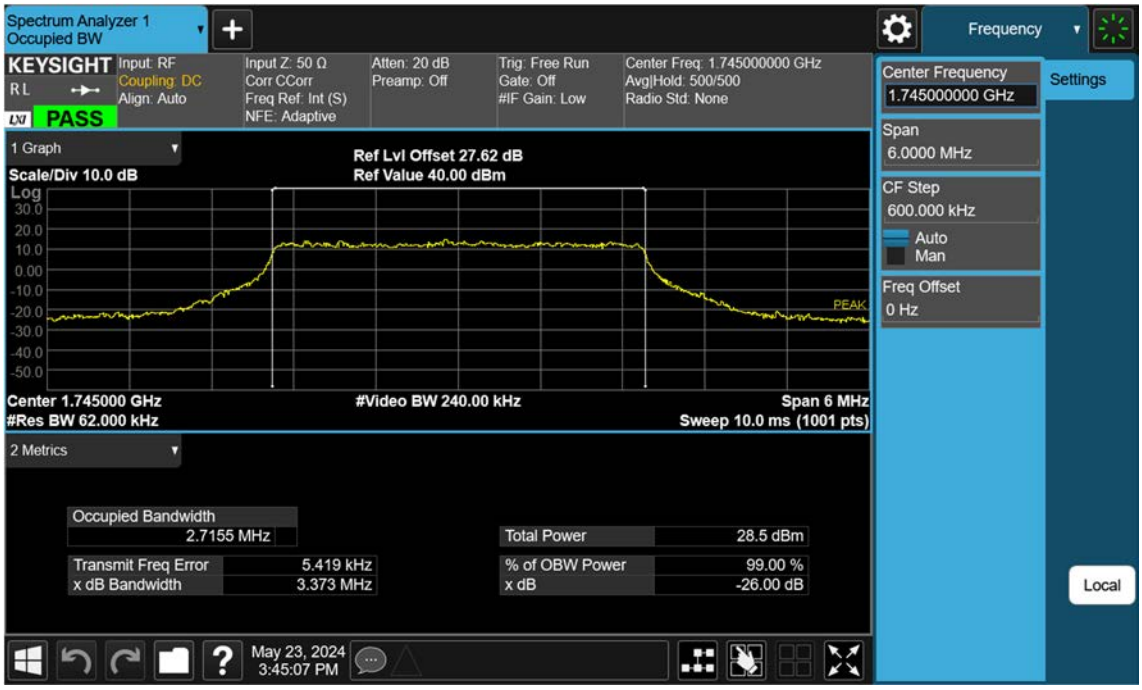
LTE B66_1.4 M_OBW_Mid_64QAM_FullRB

LTE B66_3 M_OBW_Mid_QPSK_FullRB

LTE B66_3 M_OBW_Mid_16QAM_FullRB



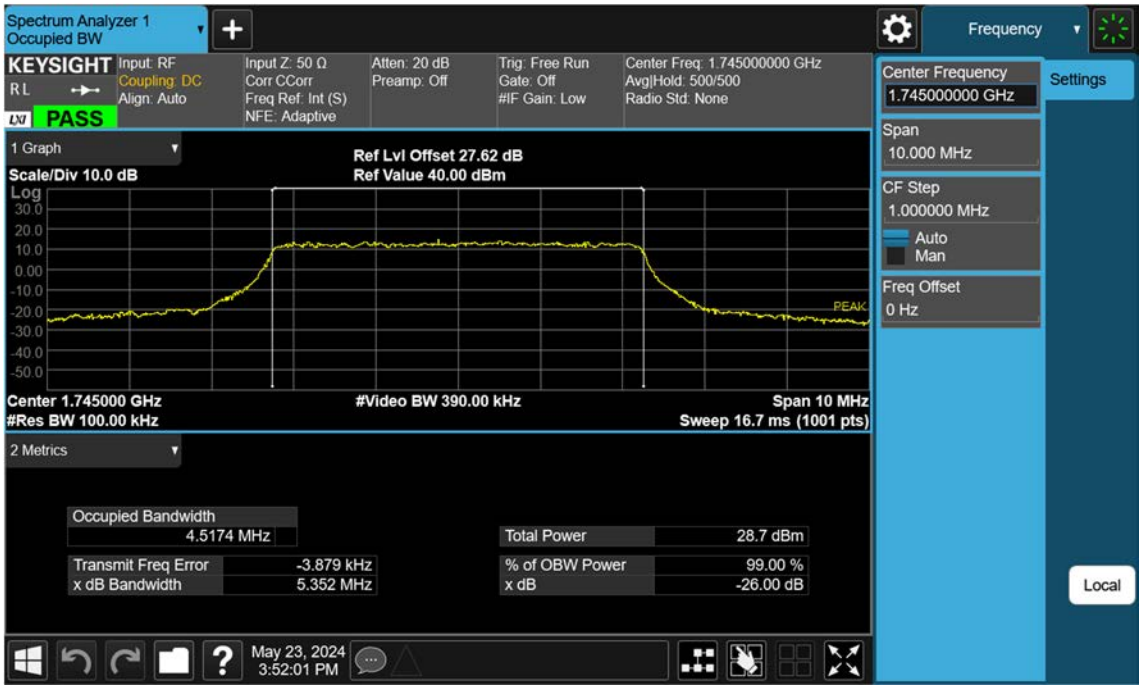
LTE B66_3 M_OBW_Mid_64QAM_FullRB



LTE B66_5 M_OBW_Mid_QPSK_FullRB

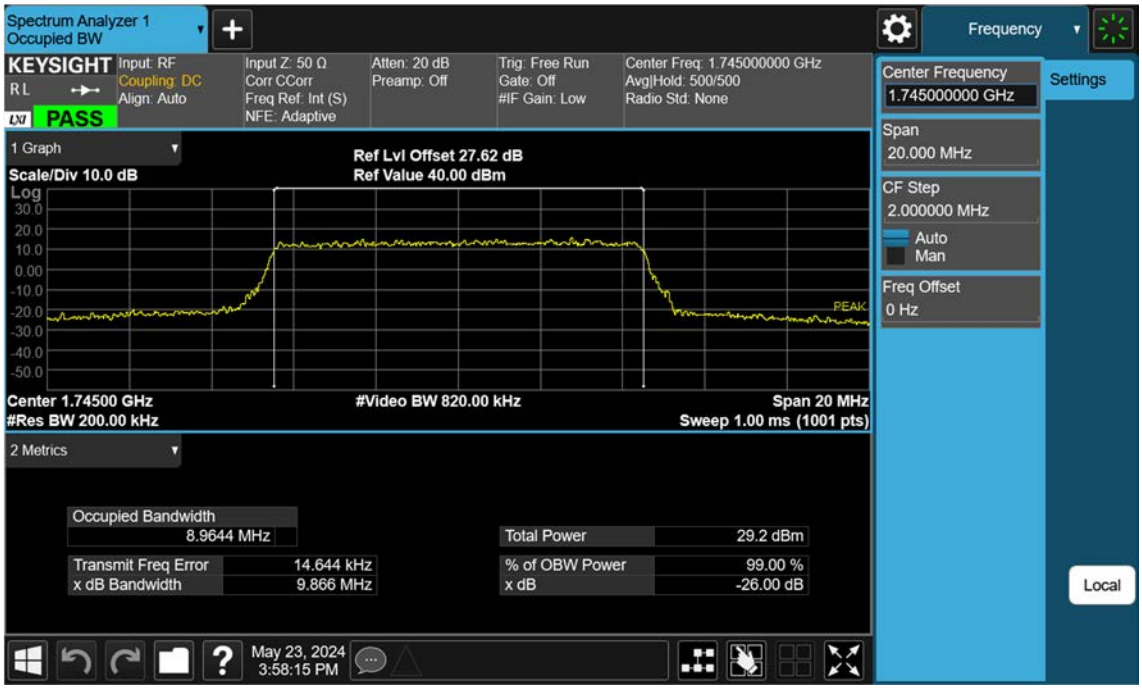
LTE B66_5 M_OBW_Mid_16QAM_FullRB

LTE B66_5 M_OBW_Mid_64QAM_FullRB



LTE B66_10 M_OBW_Mid_QPSK_FullRB

LTE B66_10 M_OBW_Mid_16QAM_FullRB



LTE B66_10 M_OBW_Mid_64QAM_FullRB

LTE B66_15 M_OBW_Mid_QPSK_FullRB

LTE B66_15 M_OBW_Mid_16QAM_FullRB

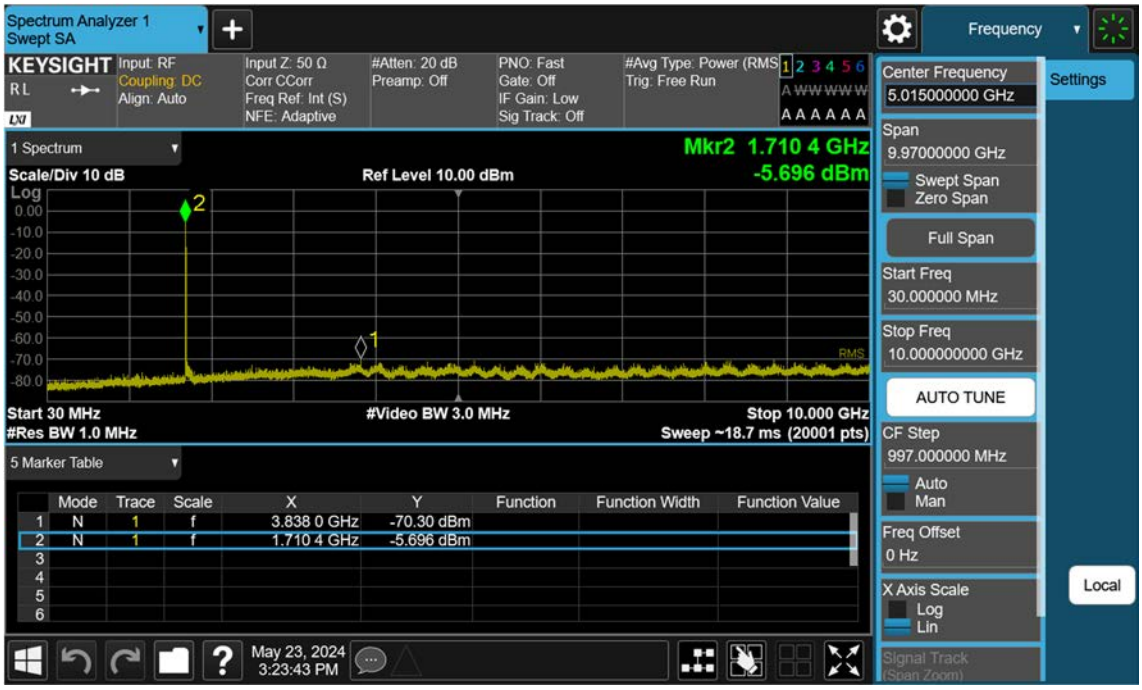
LTE B66_15 M_OBW_Mid_64QAM_FullRB

LTE B66_20 M_OBW_Mid_QPSK_FullRB

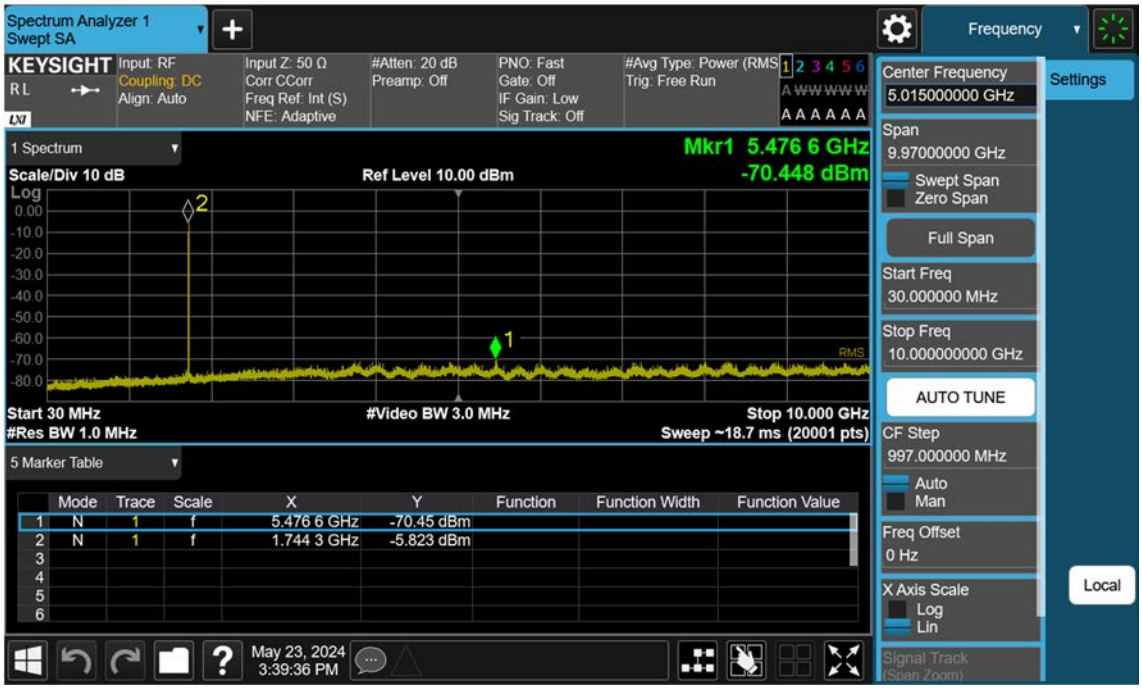
LTE B66_20 M_OBW_Mid_16QAM_FullRB

LTE B66_20 M_OBW_Mid_64QAM_FullRB

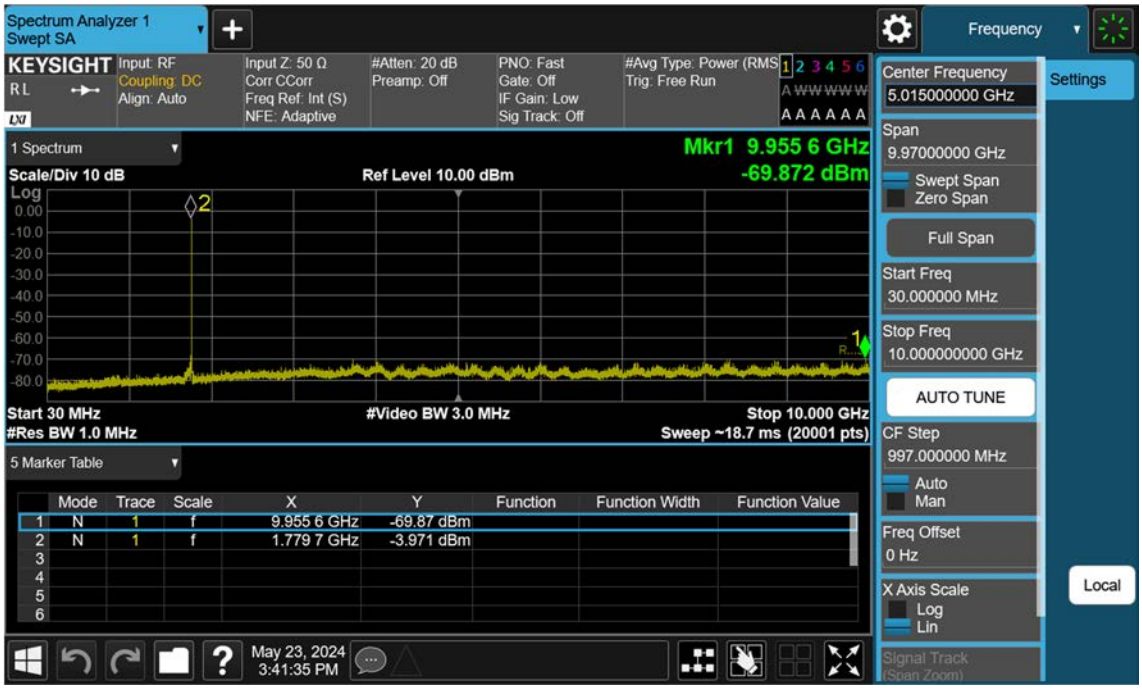
LTE B66_1.4 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



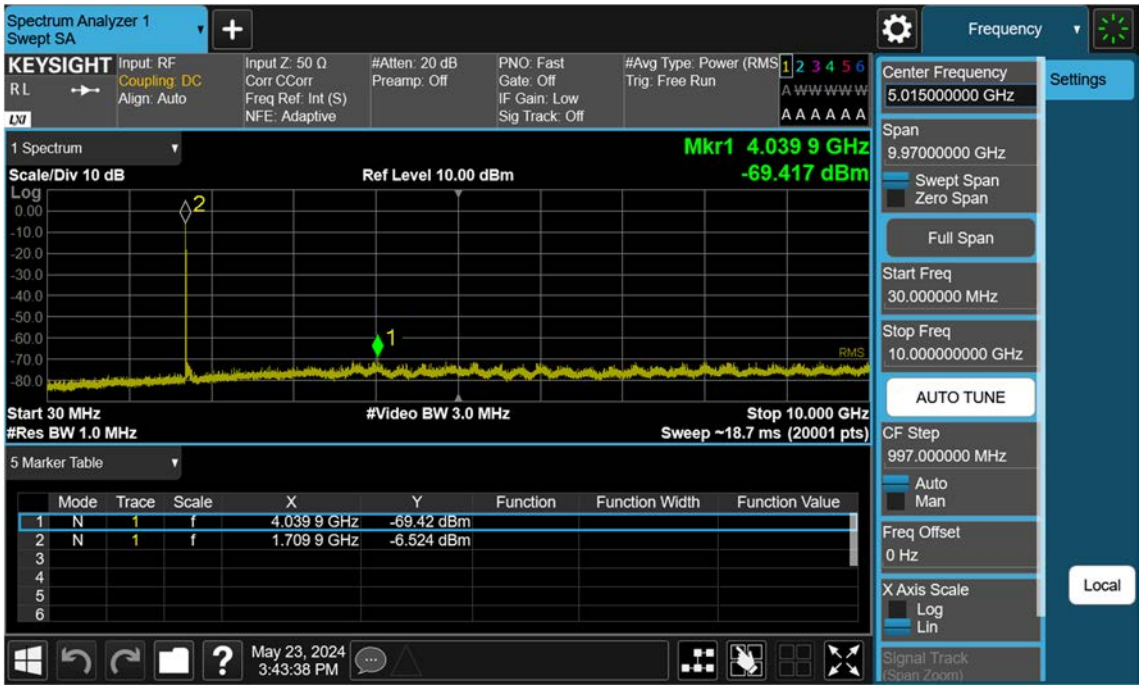
LTE B66_1.4 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



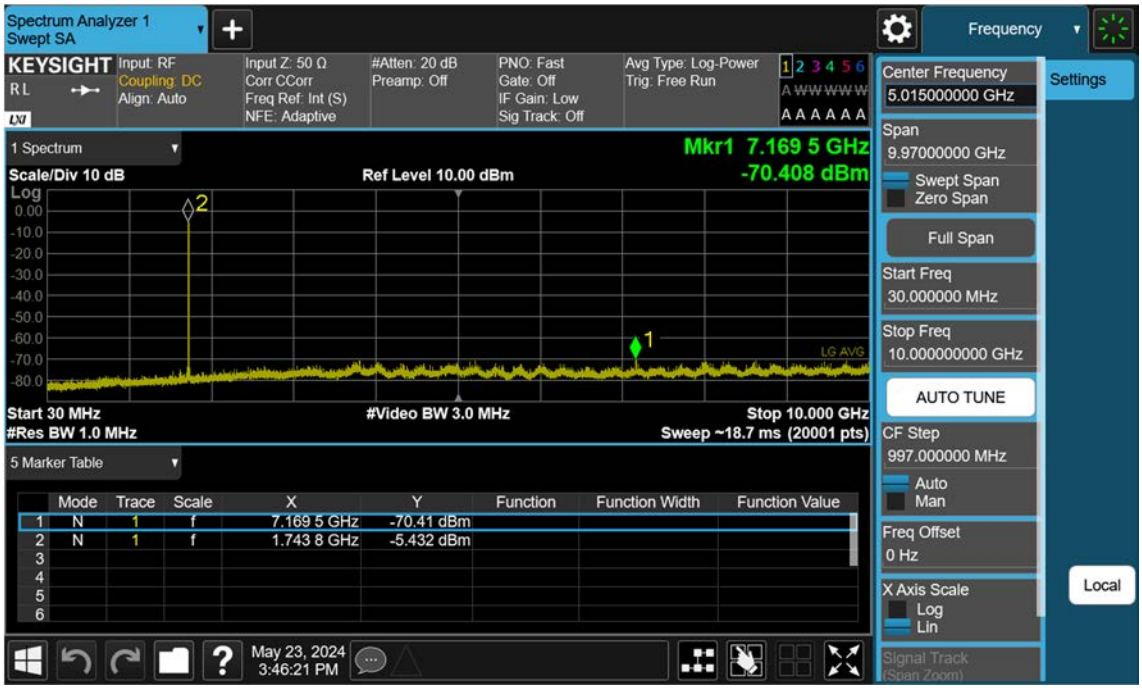
LTE B66_1.4 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



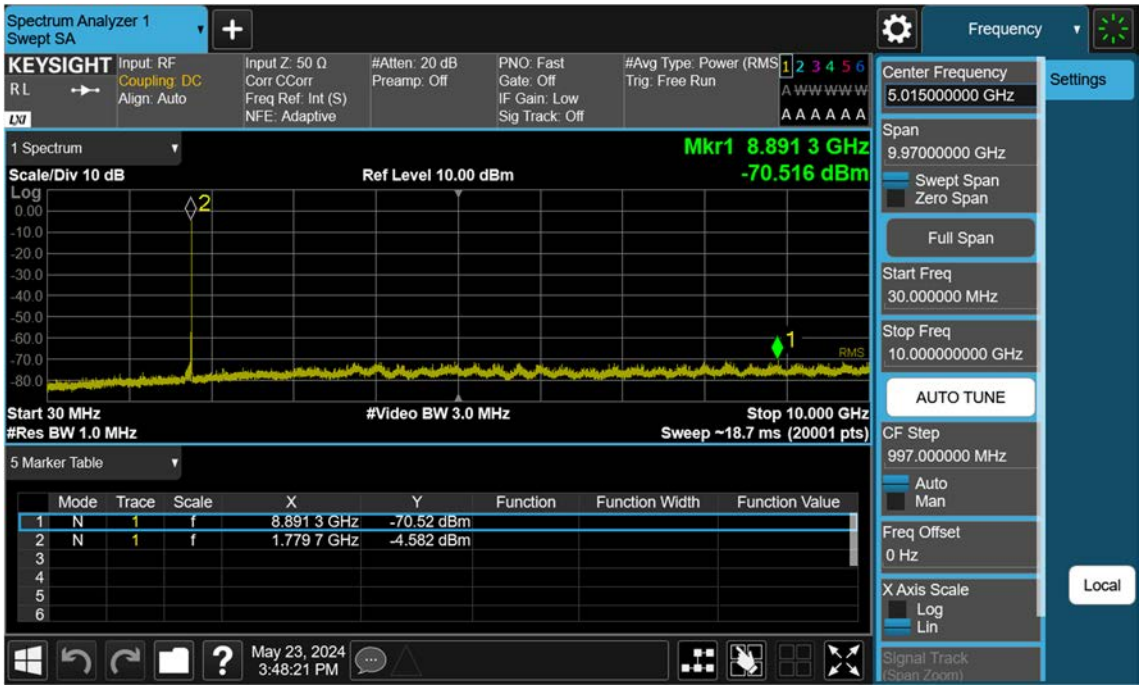
LTE B66_3 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



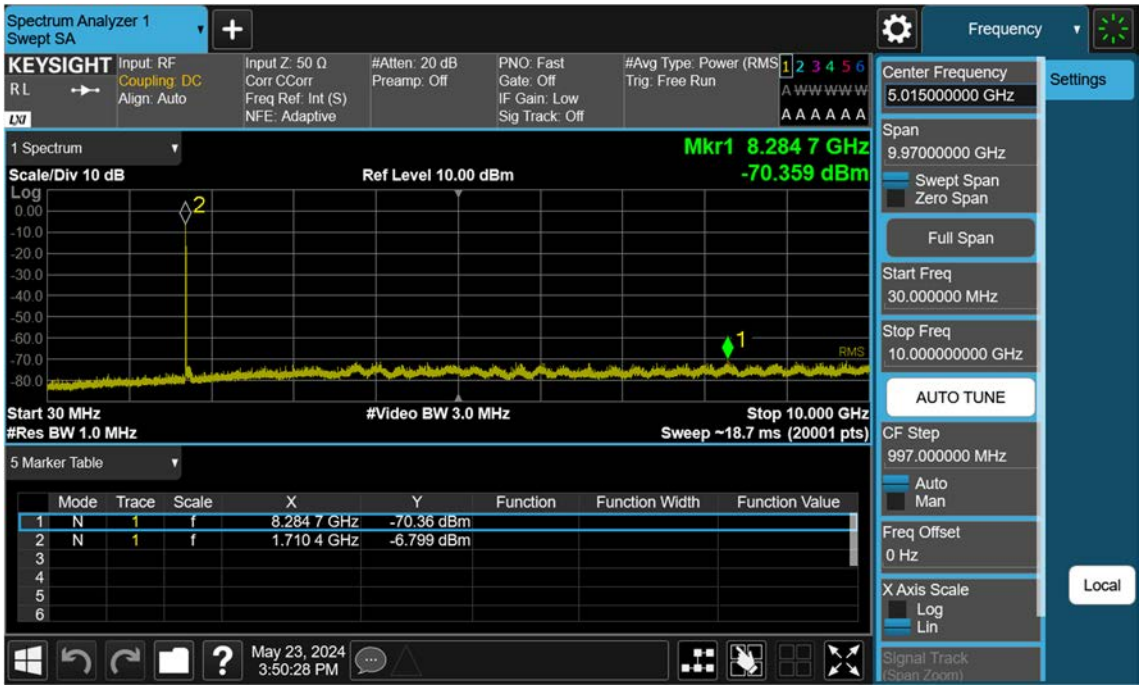
LTE B66_3 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



LTE B66_3 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

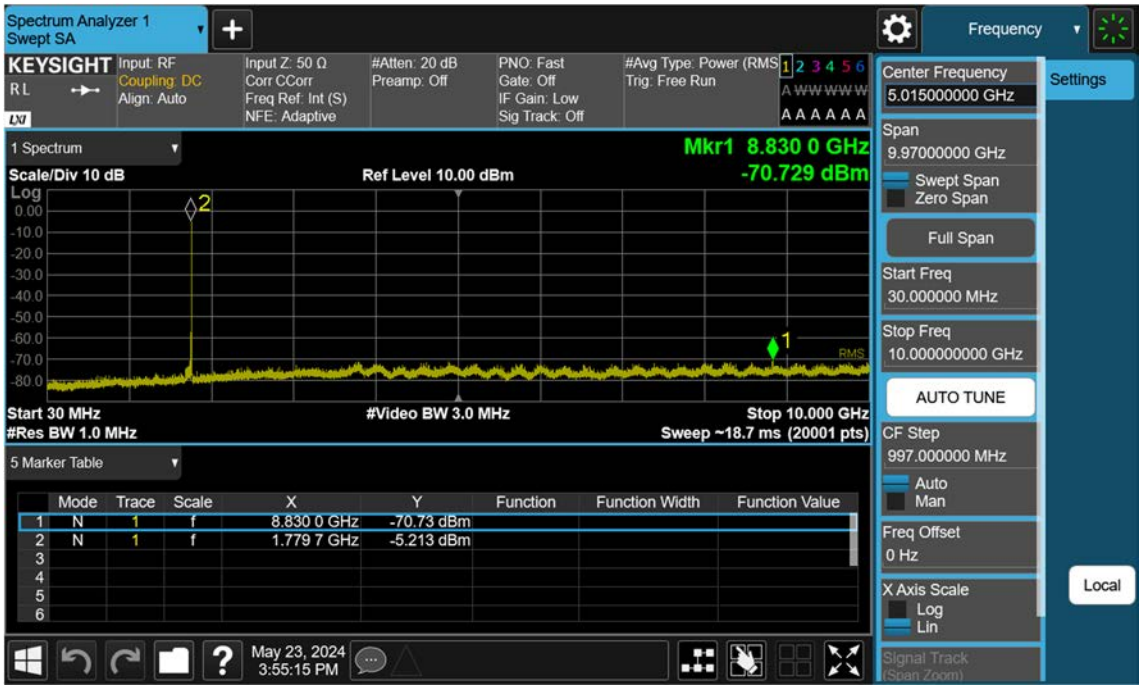


LTE B66_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB

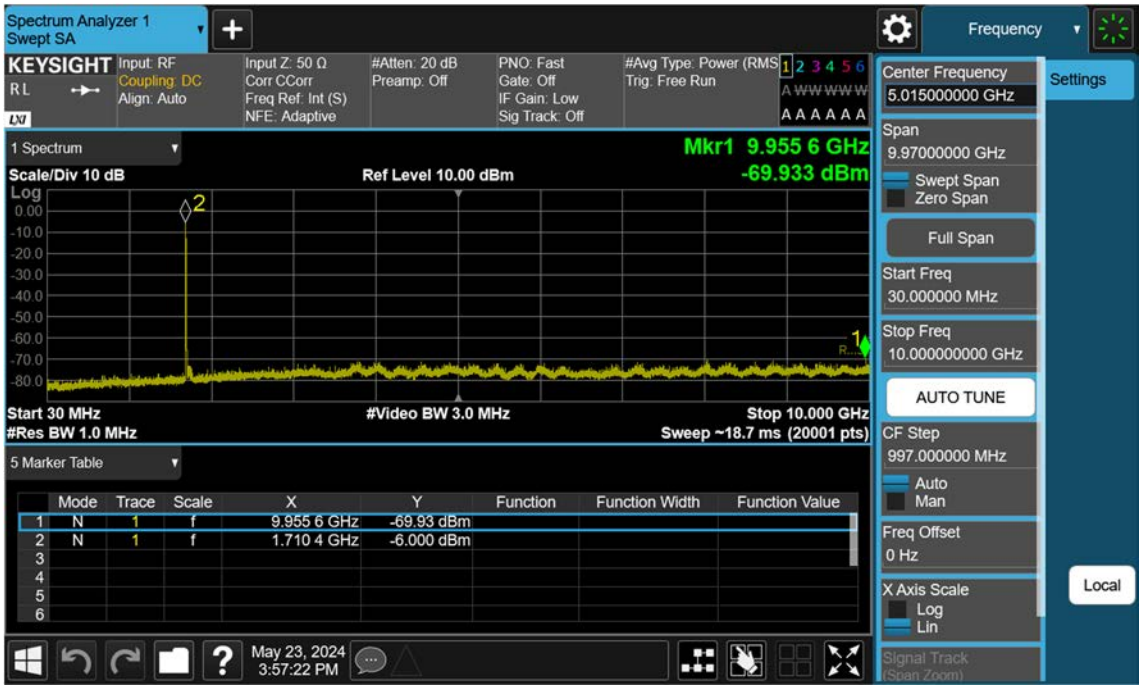


LTE B66_5 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB

LTE B66_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

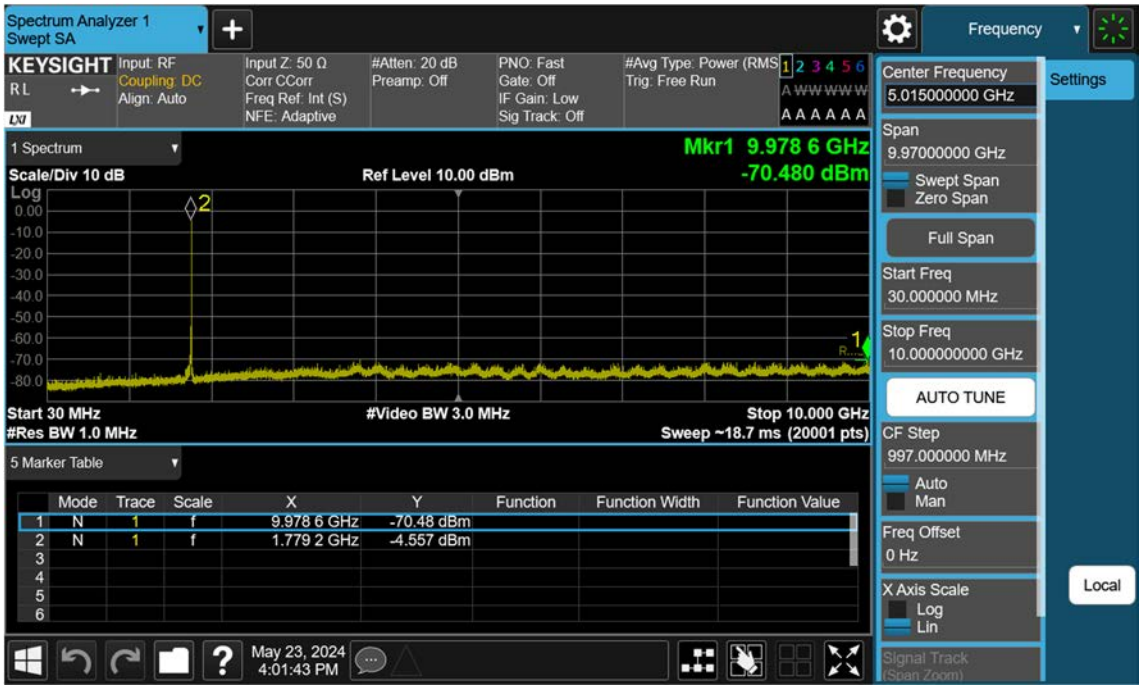


LTE B66_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB

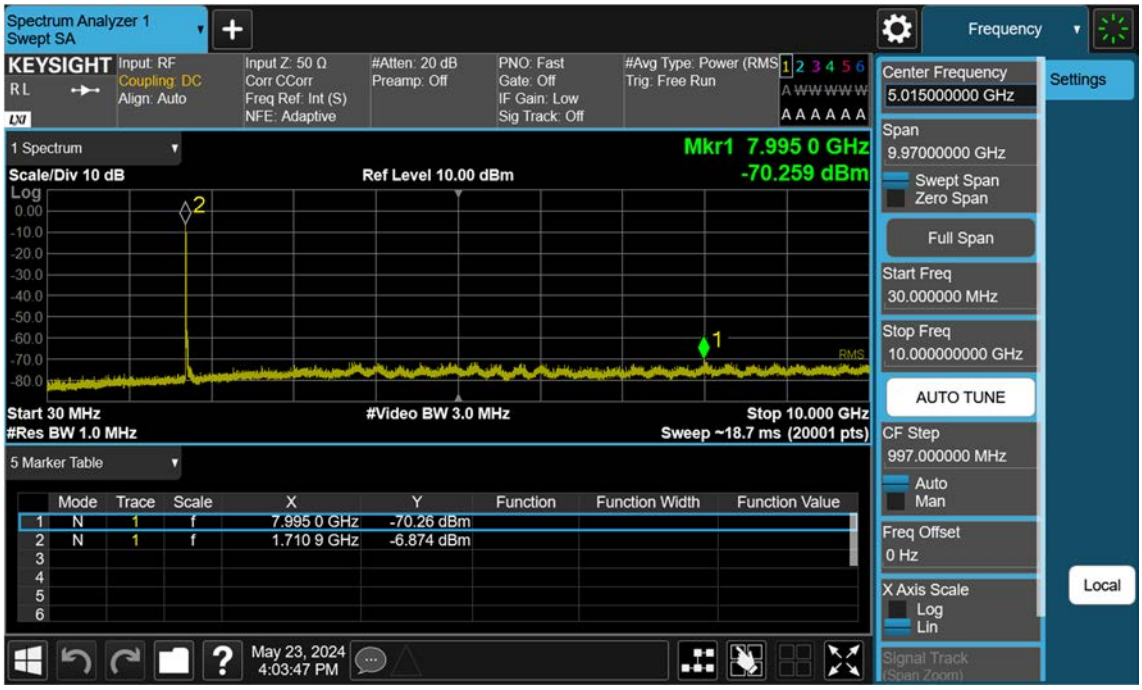


LTE B66_10 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB

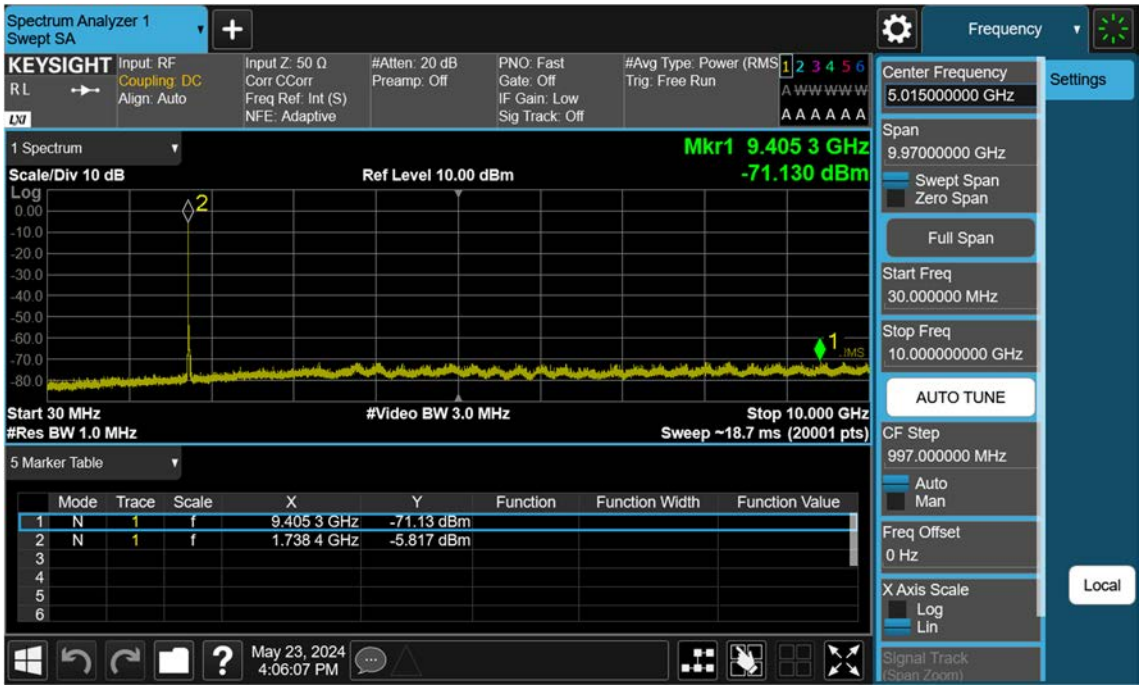
LTE B66_10 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



LTE B66_15 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



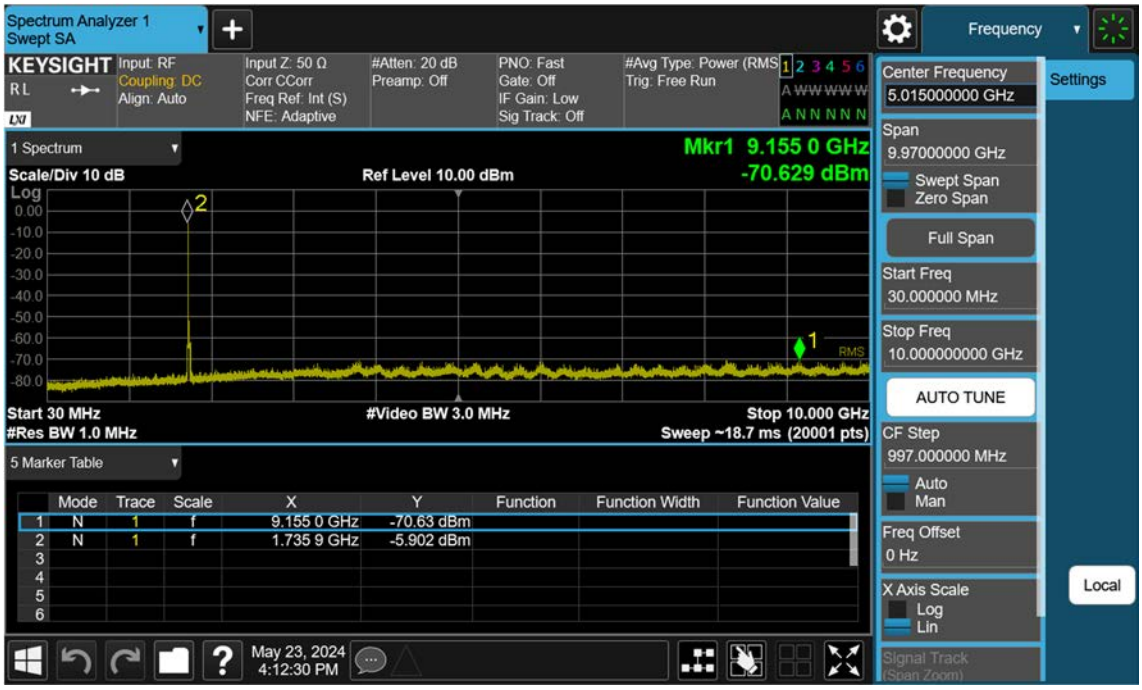
LTE B66_15 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



LTE B66_15 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

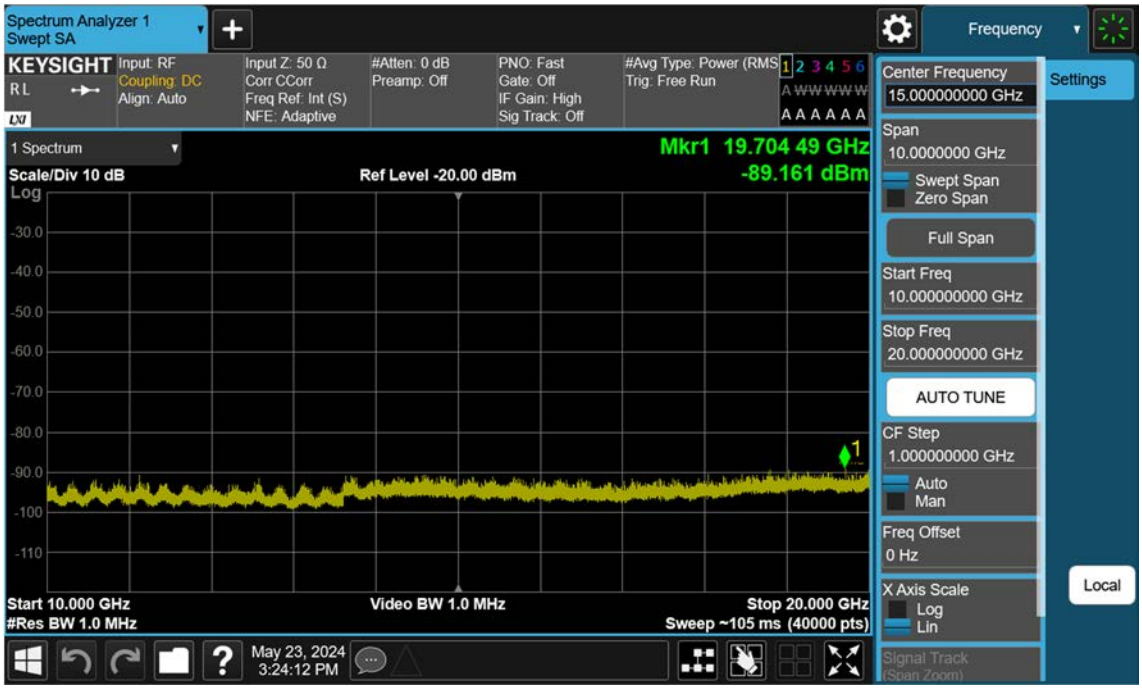
LTE B66_20 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB

LTE B66_20 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



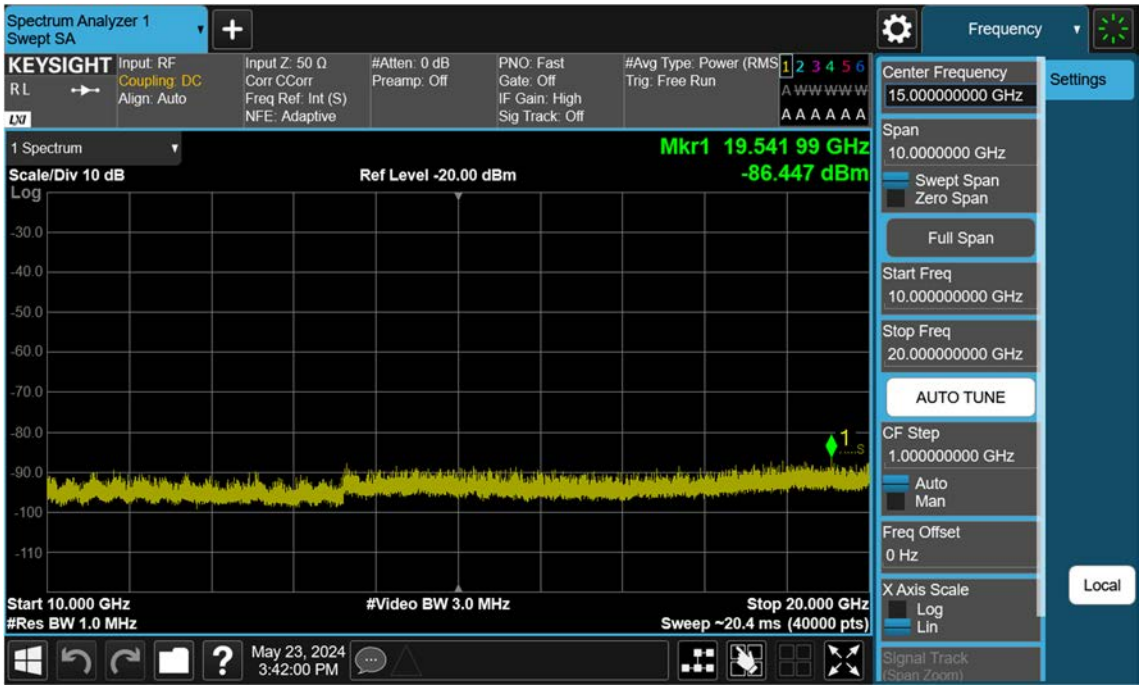
LTE B66_20 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

LTE B66_1.4 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB



LTE B66_1.4 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB

LTE B66_1.4 M_Conducted Spurious(10 G-26.5 G)_High_QPSK_1RB



LTE B66_3 M_Conducted Spurious(10 G-26.5 G)_Low_QPSK_1RB

LTE B66_3 M_Conducted Spurious(10 G-26.5 G)_Mid_QPSK_1RB