

TEST REPORT

FCC LTE B25(2) Test for TM18FNROBM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2507-FC087

DATE OF ISSUE
July 22, 2025

Tested by
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Technical Manager
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

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TEST REPORT

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DATE OF ISSUE

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Applicant

LG Electronics Inc.

128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea

Product Name

Telematics

Model Name

TM18FNROBM0

Date of Test

May 16, 2025 ~ July 22, 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

2B03LTM18FNROBM0

FCC Classification

PCS Licensed Transmitter (PCB)

Test Standard Used

FCC Rule Part: § 24

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	July 22, 2025	Initial Release

Notice

Content

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C. 853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

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)

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	TM18FNROBM0
Voltage:	4.2V
Tx Frequency:	1850.7 MHz – 1914.3 MHz (LTE – Band25/2 (1.4 MHz)) 1851.5 MHz – 1913.5 MHz (LTE – Band25/2 (3 MHz)) 1852.5 MHz – 1912.5 MHz (LTE – Band25/2 (5 MHz)) 1855.0 MHz – 1910.0 MHz (LTE – Band25/2 (10 MHz)) 1857.5 MHz – 1907.5 MHz (LTE – Band25/2 (15 MHz)) 1860.0 MHz – 1905.0 MHz (LTE – Band25/2 (20 MHz))
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #5 Conducted : BMW ICON-25SF Conducted #18
Antenna Information	Please refer to the Antenna Specification document.

1.1. SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 12(17), 25(2), 26(5), 41(38), 42 - NR: n7, 41, 77(78) - ULCA: 7C
MIMO 2	- LTE: B42 - NR: n77(78)
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 25(2), 26(5), 41(38) - NR: n7, 41 - ULCA: 7C

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)
LTE – Band25/2 (1.4)	1850.7 - 1914.3	1M09G7D	QPSK	0.248	23.94
		1M09W7D	16QAM	0.211	23.25
		1M09W7D	64QAM	0.161	22.06
		1M09W7D	256QAM	0.080	19.02
LTE – Band25/2 (3)	1851.5 - 1913.5	2M70G7D	QPSK	0.245	23.90
		2M69W7D	16QAM	0.208	23.19
		2M70W7D	64QAM	0.164	22.14
		2M70W7D	256QAM	0.080	19.02
LTE – Band25/2 (5)	1852.5 - 1912.5	4M50G7D	QPSK	0.247	23.93
		4M48W7D	16QAM	0.208	23.18
		4M50W7D	64QAM	0.160	22.04
		4M50W7D	256QAM	0.080	19.04
LTE – Band25/2 (10)	1855.0 - 1910.0	8M98G7D	QPSK	0.248	23.95
		8M99W7D	16QAM	0.215	23.32
		8M99W7D	64QAM	0.160	22.05
		9M00W7D	256QAM	0.079	18.98
LTE – Band25/2 (15)	1857.5 - 1907.5	13M5G7D	QPSK	0.243	23.86
		13M5W7D	16QAM	0.210	23.22
		13M4W7D	64QAM	0.161	22.08
		13M4W7D	256QAM	0.079	19.00
LTE – Band25/2 (20)	1860.0 - 1905.0	18M0G7D	QPSK	0.249	23.97
		17M9W7D	16QAM	0.216	23.35
		17M9W7D	64QAM	0.164	22.14
		17M9W7D	256QAM	0.080	19.01

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea.

Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

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	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW $\geq$ 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;

$$P_d \text{ (dBm)} = P_g \text{ (dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

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.

3.3 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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ 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 10th harmonics from 9 kHz.

Test Note

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

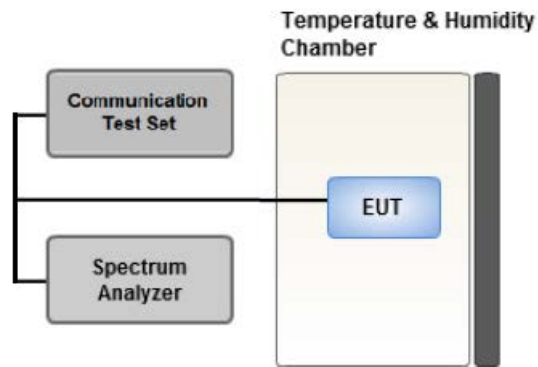
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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.

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

3.4 PEAK- TO- AVERAGE RATIO



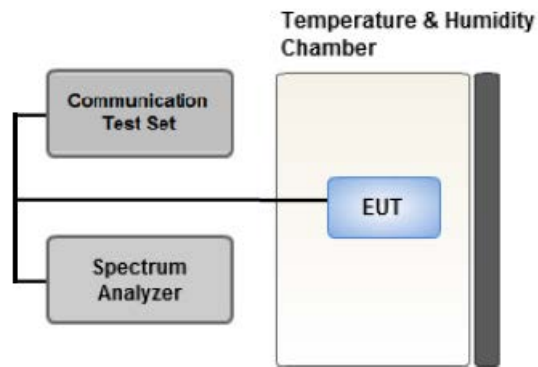
Test setup

CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth $\geq$ 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.

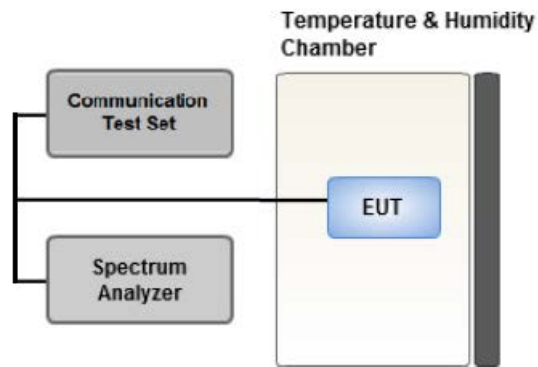
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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 $\geq$ 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

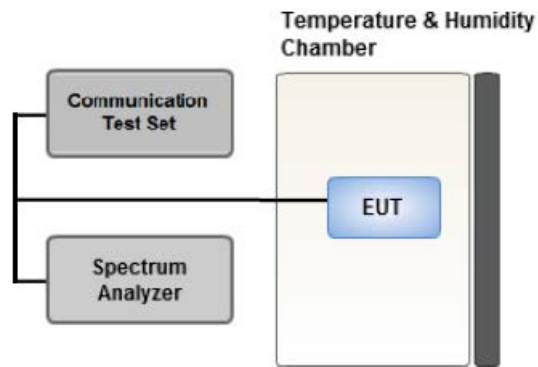
Test Overview

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 $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep $\geq 2 \times \text{Span} / \text{RBW}$

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 $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time > (Number of points in sweep $\times$ Symbol period)
9. The trace was allowed to stabilize

Test Notes

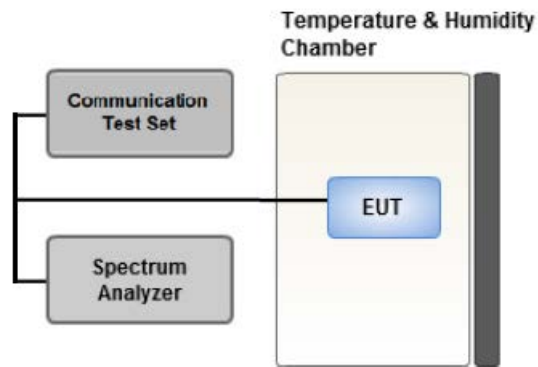
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block 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 $\text{Margin} < 1 \text{ dB}$ the emission level is either corrected by $10 \log(1 \text{ MHz} / \text{RB})$ 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.
- 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(External(MIMO1)), 20 MHz(Internal(BUA))
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data. Please refer to the table below.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.
Therefore, test data provided in this report covers BAND 25 as well as BAND 2.
- All modes of operation were investigated and the worst case configuration results are reported.
- 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)

[External(MIMO1) Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		Z(Low, Mid ch) Y(High ch)
Radiated Spurious and Harmonic Emissions	QPSK	See Section 8.2		Z

[Internal(BUA) Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		Z
Radiated Spurious and Harmonic Emissions	QPSK	See Section 9.2		Y

3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.

Therefore, test data provided in this report covers BAND 25 as well as BAND 2.

- 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	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	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

[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/ 48920320/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 ($\pm$ kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, $k=2$)
Frequency stability	28 (Confidence level about 95 %, $k=2$)

Parameter	Expanded Uncertainty ($\pm$ 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, § 24.238(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	Note ¹
Peak- to- Average Ratio	§ 24.232(d)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 24.235	Emission must remain in band	PASS

Note:

1. Refer to the SAR report.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 24.232(c)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 24.238(a)	< 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

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 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

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 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 (MIMO1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1850.7	LTE B25/2 1.4 MHz	QPSK	-17.87	17.03	10.15	2.07	H	< 2.00	0.324	25.11	1	0
		16-QAM	-18.76	16.14	10.15	2.07	H		0.264	24.22		
		64-QAM	-19.89	15.01	10.15	2.07	H		0.204	23.09		
		256-QAM	-23.01	11.89	10.15	2.07	H		0.099	19.97		
1882.5		QPSK	-19.54	15.86	10.11	2.21	H		0.238	23.76	1	0
		16-QAM	-20.29	15.11	10.11	2.21	H		0.200	23.01		
		64-QAM	-21.37	14.03	10.11	2.21	H		0.156	21.93		
		256-QAM	-24.48	10.92	10.11	2.21	H		0.076	18.82		
1914.3		QPSK	-20.47	15.03	10.00	2.17	V		0.193	22.86	1	0
		16-QAM	-20.71	14.79	10.00	2.17	V		0.183	22.62		
		64-QAM	-21.64	13.86	10.00	2.17	V		0.148	21.69		
		256-QAM	-24.68	10.82	10.00	2.17	V		0.073	18.65		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1851.5	LTE B25/2 3 MHz	QPSK	-18.03	16.87	10.15	2.07	H	< 2.00	0.313	24.95	1	0
		16-QAM	-18.79	16.11	10.15	2.07	H		0.262	24.19		
		64-QAM	-19.76	15.14	10.15	2.07	H		0.210	23.22		
		256-QAM	-23.02	11.88	10.15	2.07	H		0.099	19.96		
1882.5		QPSK	-19.40	16.00	10.11	2.21	H		0.245	23.90	1	0
		16-QAM	-20.21	15.19	10.11	2.21	H		0.204	23.09		
		64-QAM	-21.29	14.11	10.11	2.21	H		0.159	22.01		
		256-QAM	-24.36	11.04	10.11	2.21	H		0.078	18.94		
1913.5		QPSK	-19.78	15.72	10.00	2.17	V		0.227	23.55	1	0
		16-QAM	-20.49	15.01	10.00	2.17	V		0.192	22.84		
		64-QAM	-21.56	13.94	10.00	2.17	V		0.150	21.77		
		256-QAM	-24.54	10.96	10.00	2.17	V		0.076	18.79		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1852.5	LTE B25/2 5 MHz	QPSK	-18.01	16.99	10.15	2.08	H	< 2.00	0.321	25.06	1	0
		16-QAM	-18.67	16.33	10.15	2.08	H		0.276	24.40		
		64-QAM	-19.82	15.18	10.15	2.08	H		0.211	23.25		
		256-QAM	-22.82	12.18	10.15	2.08	H		0.106	20.25		
1882.5		QPSK	-19.49	15.91	10.11	2.21	H		0.240	23.81	1	0
		16-QAM	-20.18	15.22	10.11	2.21	H		0.205	23.12		
		64-QAM	-21.08	14.32	10.11	2.21	H		0.167	22.22		
		256-QAM	-24.38	11.02	10.11	2.21	H		0.078	18.92		
1912.5		QPSK	-19.84	15.66	10.00	2.17	V		0.224	23.49	1	0
		16-QAM	-20.24	15.26	10.00	2.17	V		0.204	23.09		
		64-QAM	-21.50	14.00	10.00	2.17	V		0.152	21.83		
		256-QAM	-24.41	11.09	10.00	2.17	V		0.078	18.92		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1855.0	LTE B25/2 10 MHz	QPSK	-18.17	16.83	10.15	2.08	H	< 2.00	0.309	24.90	1	25
		16-QAM	-18.75	16.25	10.15	2.08	H		0.270	24.32		
		64-QAM	-19.93	15.07	10.15	2.08	H		0.206	23.14		
		256-QAM	-23.12	11.88	10.15	2.08	H		0.099	19.95		
1882.5		QPSK	-19.36	16.04	10.11	2.21	H		0.248	23.94	1	0
		16-QAM	-20.02	15.38	10.11	2.21	H		0.213	23.28		
		64-QAM	-21.26	14.14	10.11	2.21	H		0.160	22.04		
		256-QAM	-24.38	11.02	10.11	2.21	H		0.078	18.92		
1910.0		QPSK	-19.33	16.15	10.03	2.17	V		0.252	24.01	1	0
		16-QAM	-20.03	15.45	10.03	2.17	V		0.214	23.31		
		64-QAM	-21.12	14.36	10.03	2.17	V		0.167	22.22		
		256-QAM	-24.51	10.97	10.03	2.17	V		0.076	18.83		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1857.5	LTE B25/2 15 MHz	QPSK	-18.23	16.89	10.14	2.10	H	< 2.00	0.311	24.93	1	0
		16-QAM	-18.89	16.23	10.14	2.10	H		0.268	24.27		
		64-QAM	-19.99	15.13	10.14	2.10	H		0.208	23.17		
		256-QAM	-23.18	11.94	10.14	2.10	H		0.100	19.98		
1882.5		QPSK	-18.86	16.54	10.11	2.21	H		0.278	24.44	1	0
		16-QAM	-19.79	15.61	10.11	2.21	H		0.225	23.51		
		64-QAM	-20.91	14.49	10.11	2.21	H		0.174	22.39		
		256-QAM	-23.79	11.61	10.11	2.21	H		0.089	19.51		
1907.5		QPSK	-19.38	16.10	10.03	2.17	V		0.249	23.96	1	38
		16-QAM	-20.26	15.22	10.03	2.17	V		0.203	23.08		
		64-QAM	-21.25	14.23	10.03	2.17	V		0.162	22.09		
		256-QAM	-24.35	11.13	10.03	2.17	V		0.079	18.99		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1860.0	LTE B25/2 20 MHz	QPSK	-18.05	17.07	10.14	2.10	H	< 2.00	0.324	25.11	1	0
		16-QAM	-18.84	16.28	10.14	2.10	H		0.270	24.32		
		64-QAM	-20.14	14.98	10.14	2.10	H		0.200	23.02		
		256-QAM	-23.01	12.11	10.14	2.10	H		0.104	20.15		
1882.5		QPSK	-18.96	16.44	10.11	2.21	H		0.272	24.34	1	0
		16-QAM	-19.54	15.86	10.11	2.21	H		0.238	23.76		
		64-QAM	-20.74	14.66	10.11	2.21	H		0.180	22.56		
		256-QAM	-23.87	11.53	10.11	2.21	H		0.088	19.43		
1905.0		QPSK	-19.11	16.39	10.05	2.19	V		0.266	24.25	1	0
		16-QAM	-19.88	15.62	10.05	2.19	V		0.223	23.48		
		64-QAM	-20.99	14.51	10.05	2.19	V		0.173	22.37		
		256-QAM	-24.05	11.45	10.05	2.19	V		0.085	19.31		

8.2 RADIATED SPURIOUS EMISSIONS

☒ MODE: LTE B25/2
☒ 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
26047 (1850.7)	3 701.40	-52.54	11.83	-60.16	3.07	V	-51.40	1	0
	5 552.10	-55.19	12.07	-56.89	3.89	V	-48.71		
	7 402.80	-54.29	11.07	-50.22	4.57	V	-43.72		
	9 253.50	-55.76	11.28	-44.72	5.19	H	-38.63		
	11 104.20	-53.86	12.32	-47.42	5.87	V	-40.97		
26365 (1882.5)	3 765.00	-52.78	11.59	-59.25	3.11	V	-50.77	1	0
	5 647.50	-54.80	12.01	-56.00	3.96	V	-47.95		
	7 530.00	-54.08	11.50	-50.34	4.60	V	-43.44		
	9 412.50	-55.27	11.28	-45.48	5.25	V	-39.45		
	11 295.00	-53.68	12.26	-46.41	5.83	H	-39.98		
26683 (1914.3)	3 828.60	-53.43	11.28	-59.57	3.17	H	-51.46	1	0
	5 742.90	-54.12	11.74	-54.71	3.99	H	-46.96		
	7 657.20	-53.36	11.56	-49.35	4.69	V	-42.48		
	9 571.50	-54.12	11.36	-45.27	5.32	H	-39.23		
	11 485.80	-54.48	12.41	-47.24	5.99	V	-40.82		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
25(2)	1.4 MHz	1882.5	QPSK	6	0	5.67	13.00
			16-QAM			6.56	
			64-QAM			6.57	
			256-QAM			6.38	
	3 MHz		QPSK	15		5.73	
			16-QAM			6.50	
			64-QAM			6.61	
			256-QAM			6.50	
	5 MHz		QPSK	25		5.76	
			16-QAM			6.40	
			64-QAM			6.70	
			256-QAM			6.46	
	10 MHz		QPSK	50		5.73	
			16-QAM			6.43	
			64-QAM			6.63	
			256-QAM			6.43	
	15 MHz		QPSK	75		5.73	
			16-QAM			6.37	
			64-QAM			6.65	
			256-QAM			6.50	
	20 MHz		QPSK	100		5.66	
			16-QAM			6.39	
			64-QAM			6.57	
			256-QAM			6.57	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 57 ~ 80.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
25(2)	1.4 MHz	1882.5	QPSK	6	0	1.0929
			16-QAM			1.0916
			64-QAM			1.0935
			256-QAM			1.0888
	3 MHz		QPSK	15		2.7028
			16-QAM			2.6907
			64-QAM			2.6968
			256-QAM			2.7005
	5 MHz		QPSK	25		4.5008
			16-QAM			4.4818
			64-QAM			4.4999
			256-QAM			4.5005
	10 MHz		QPSK	50		8.9770
			16-QAM			8.9832
			64-QAM			8.9841
			256-QAM			8.9850
	15 MHz		QPSK	75		13.433
			16-QAM			13.450
			64-QAM			13.425
			256-QAM			13.415
	20 MHz		QPSK	100		18.019
			16-QAM			17.899
			64-QAM			17.928
			256-QAM			17.933

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 81 ~ 104.

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)
25(2)	1.4	1850.7	8.43471	29.190	-66.65	-37.456	-13.00
		1882.5	4.02797	28.590	-66.66	-38.071	
		1914.3	6.86942	29.190	-66.16	-36.971	
	3	1851.5	3.74881	28.590	-65.98	-37.386	
		1882.5	4.89536	28.590	-66.59	-37.998	
		1913.5	3.78869	28.590	-67.10	-38.506	
	5	1852.5	4.94521	28.590	-67.16	-38.567	
		1882.5	5.22437	29.190	-66.21	-37.024	
		1912.5	8.07579	29.190	-66.75	-37.562	
	10	1855.0	4.93524	28.590	-65.84	-37.247	
		1882.5	4.89536	28.590	-66.85	-38.262	
		1910.0	8.09573	29.190	-66.27	-37.081	
	15	1857.5	6.00203	29.190	-66.00	-36.805	
		1882.5	4.67602	28.590	-66.83	-38.242	
		1907.5	3.94821	28.590	-67.10	-38.505	
	20	1860.0	3.76875	28.590	-67.10	-38.506	
		1882.5	4.01800	28.590	-65.77	-37.179	
		1905.0	4.93524	28.590	-65.73	-37.144	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 105 ~ 140.
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 + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.65
1 – 5	28.59
5 – 10	29.19
10 – 15	29.71
15 – 20	30.08
Above 20(26.5)	30.73

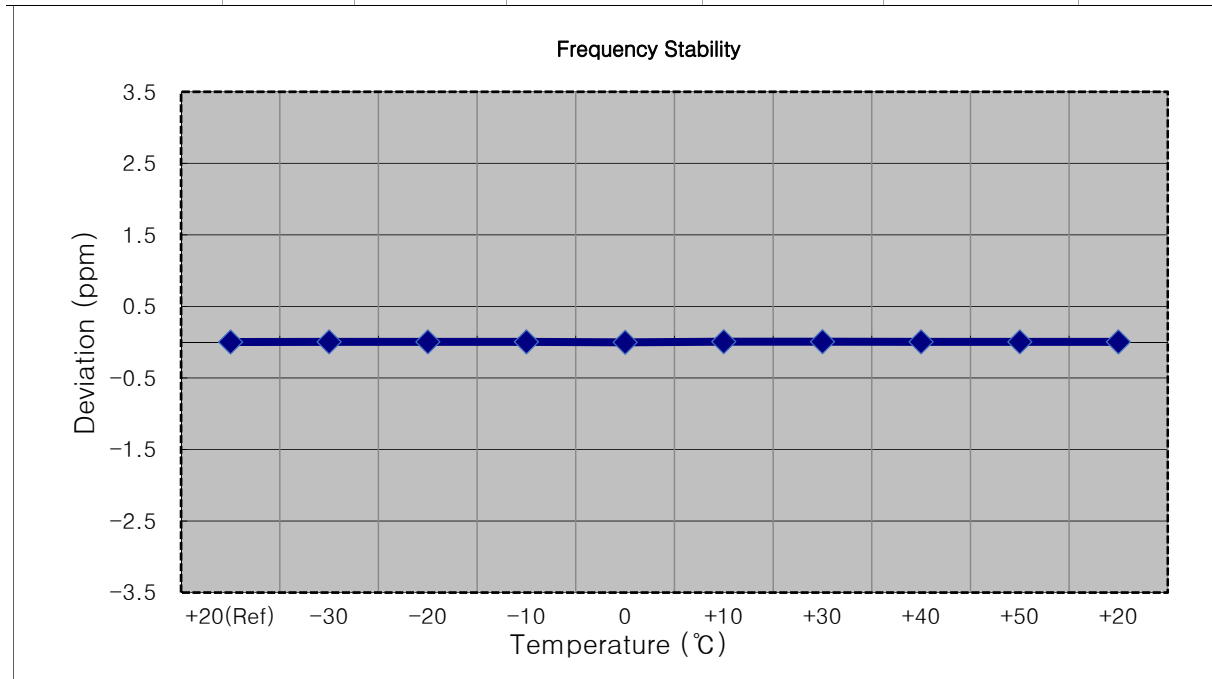
8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 141 ~ 176.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

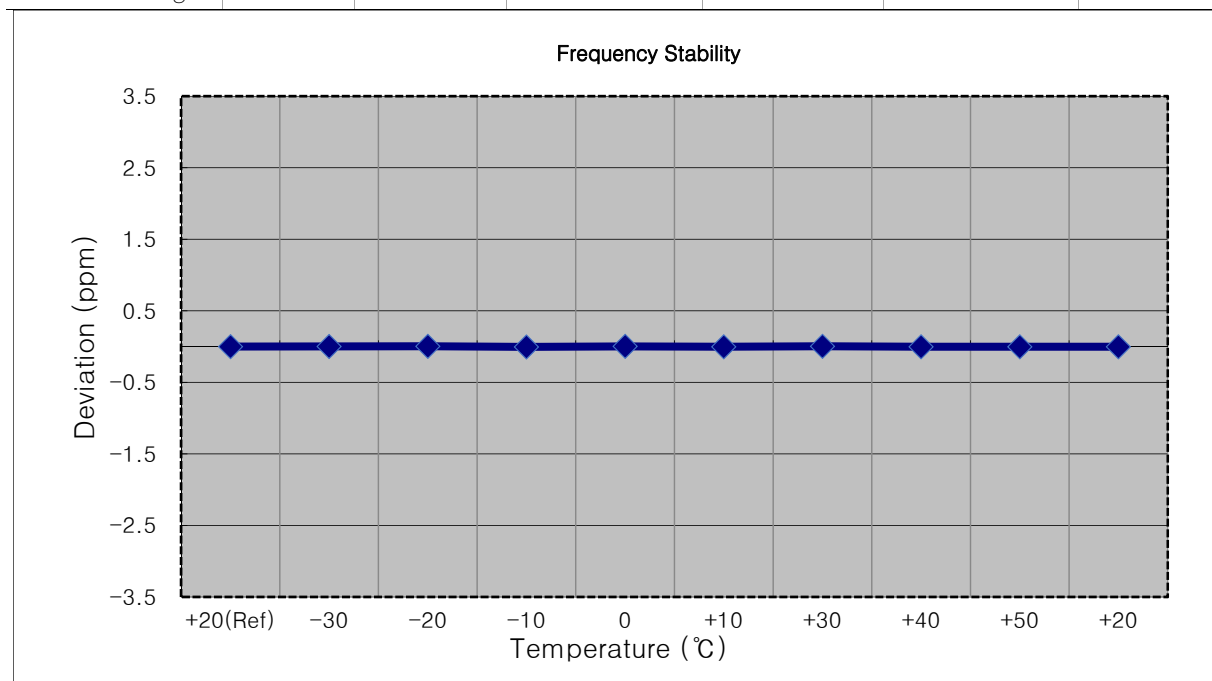
- ▣ MODE: LTE B25(2)
- ▣ OPERATING FREQUENCY: 1850,700,000 Hz
- ▣ CHANNEL: 26047 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 4.200 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1850 700 006	0.0	0.000 000	0.000
100 %		-30	1850 700 012	5.5	0.000 000	0.003
100 %		-20	1850 700 012	5.4	0.000 000	0.003
100 %		-10	1850 700 012	5.7	0.000 000	0.003
100 %		0	1850 700 001	-5.4	0.000 000	-0.003
100 %		+10	1850 700 014	7.9	0.000 000	0.004
100 %		+30	1850 700 017	11.0	0.000 001	0.006
100 %		+40	1850 700 012	6.2	0.000 000	0.003
100 %		+50	1850 700 013	6.5	0.000 000	0.004
Lowest voltage	3.700	+20	1850 700 013	6.7	0.000 000	0.004



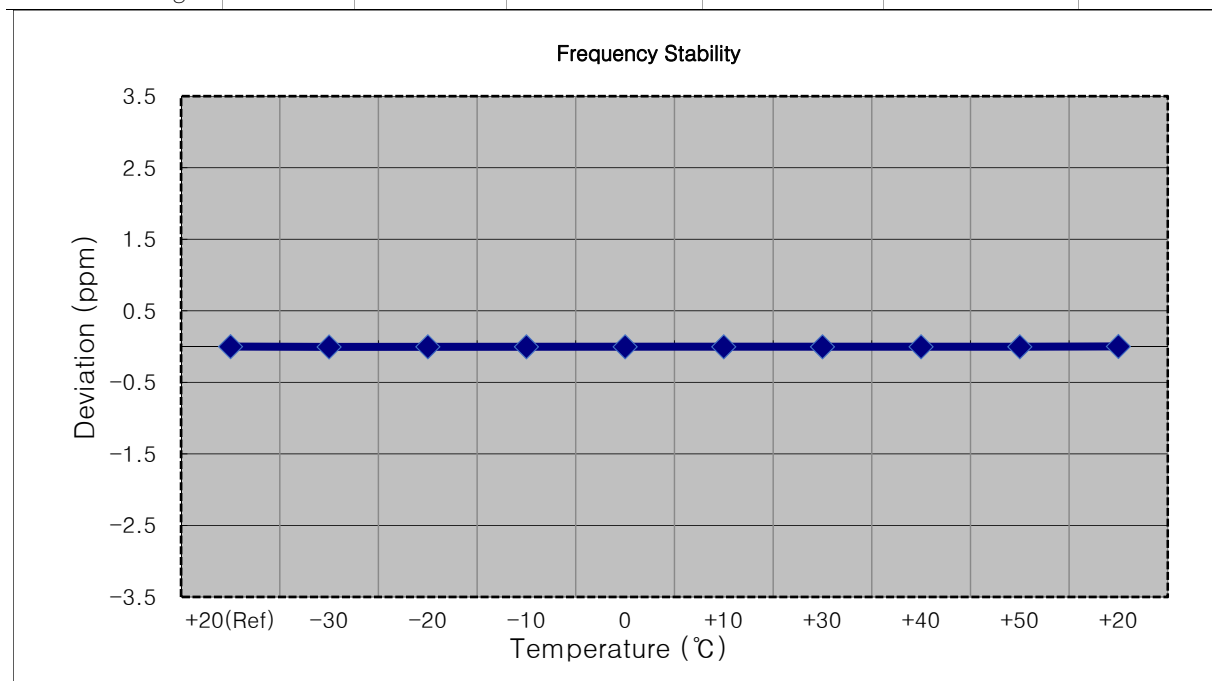
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1851,500,000 Hz</u>
CHANNEL:	<u>26055 (3 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1851 499 997	0.0	0.000 000	0.000
100 %		-30	1851 500 000	3.4	0.000 000	0.002
100 %		-20	1851 500 003	6.0	0.000 000	0.003
100 %		-10	1851 499 988	-8.3	0.000 000	-0.004
100 %		0	1851 500 003	6.9	0.000 000	0.004
100 %		+10	1851 499 991	-5.1	0.000 000	-0.003
100 %		+30	1851 500 002	5.3	0.000 000	0.003
100 %		+40	1851 499 991	-6.0	0.000 000	-0.003
100 %		+50	1851 499 991	-6.0	0.000 000	-0.003
Lowest voltage	3.700	+20	1851 499 991	-5.8	0.000 000	-0.003



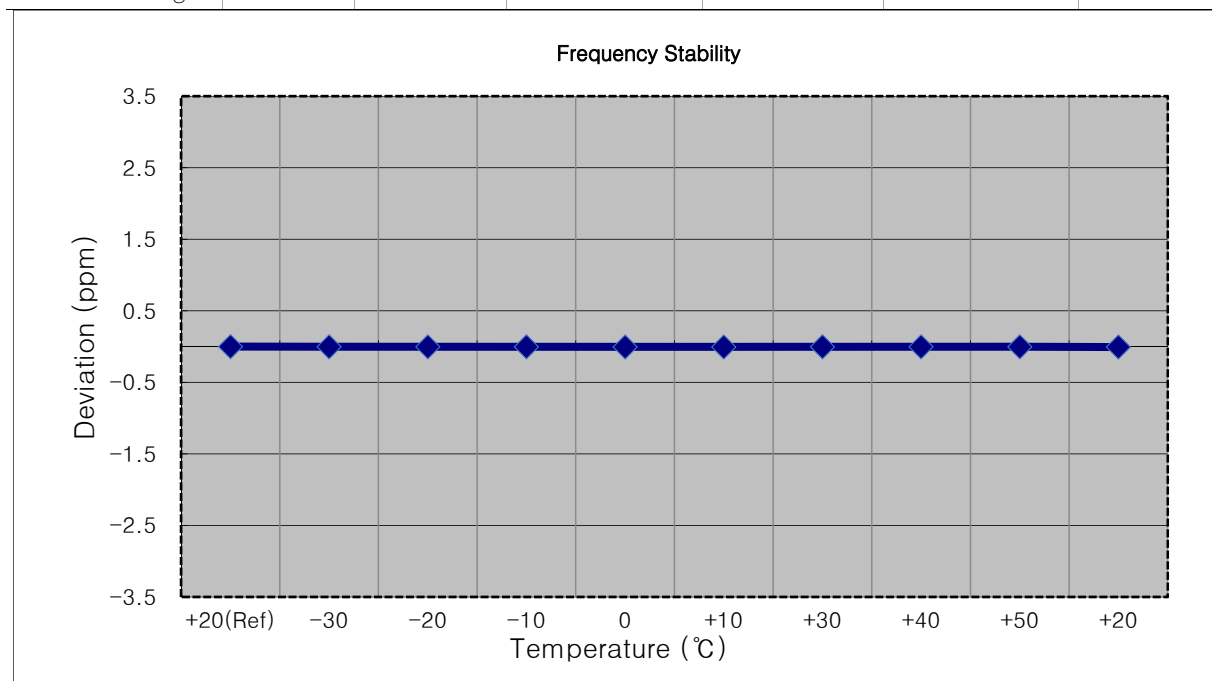
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1852,500,000 Hz</u>
CHANNEL:	<u>26065 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1852 499 992	0.0	0.000 000	0.000
100 %		-30	1852 499 982	-9.3	-0.000 001	-0.005
100 %		-20	1852 499 986	-6.0	0.000 000	-0.003
100 %		-10	1852 499 987	-4.4	0.000 000	-0.002
100 %		0	1852 499 986	-5.7	0.000 000	-0.003
100 %		+10	1852 499 986	-5.5	0.000 000	-0.003
100 %		+30	1852 499 986	-5.8	0.000 000	-0.003
100 %		+40	1852 499 986	-5.7	0.000 000	-0.003
100 %		+50	1852 499 985	-6.6	0.000 000	-0.004
Lowest voltage	3.700	+20	1852 499 996	4.2	0.000 000	0.002



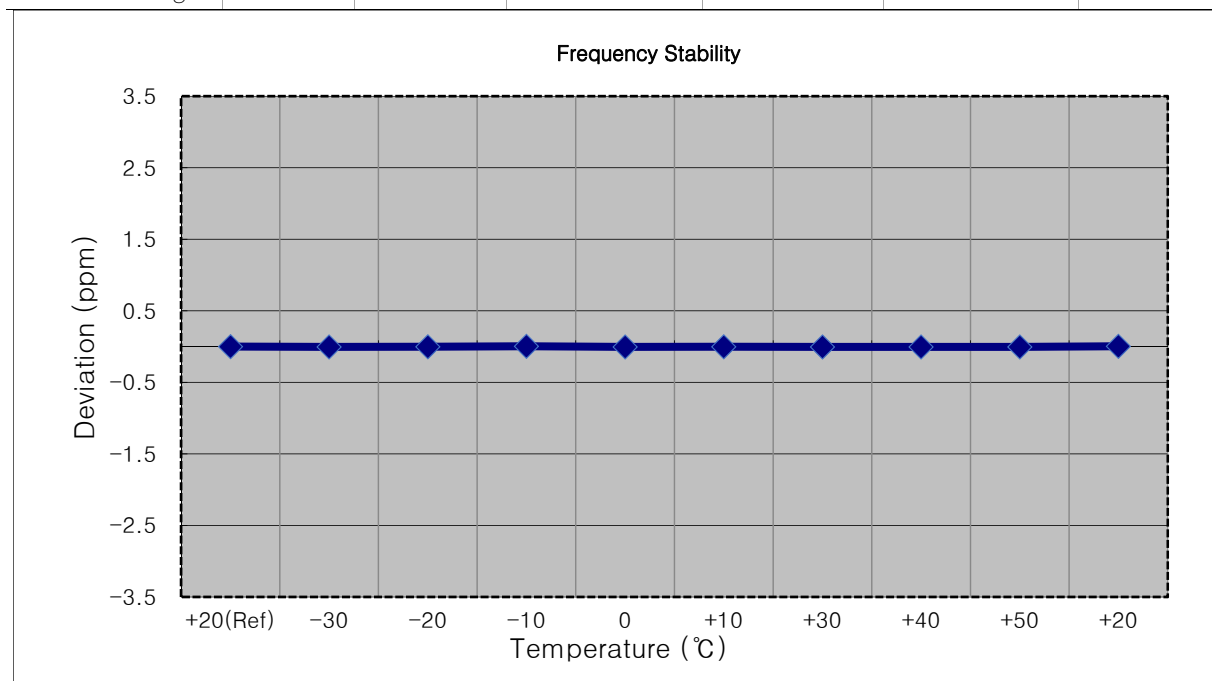
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1855,000,000 Hz</u>
CHANNEL:	<u>26090 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1854 999 992	0.0	0.000 000	0.000
100 %		-30	1854 999 986	-5.8	0.000 000	-0.003
100 %		-20	1854 999 986	-6.1	0.000 000	-0.003
100 %		-10	1854 999 987	-4.3	0.000 000	-0.002
100 %		0	1854 999 984	-7.6	0.000 000	-0.004
100 %		+10	1854 999 984	-7.2	0.000 000	-0.004
100 %		+30	1854 999 986	-5.7	0.000 000	-0.003
100 %		+40	1854 999 987	-4.9	0.000 000	-0.003
100 %		+50	1854 999 985	-6.9	0.000 000	-0.004
Lowest voltage	3.700	+20	1854 999 982	-9.5	-0.000 001	-0.005



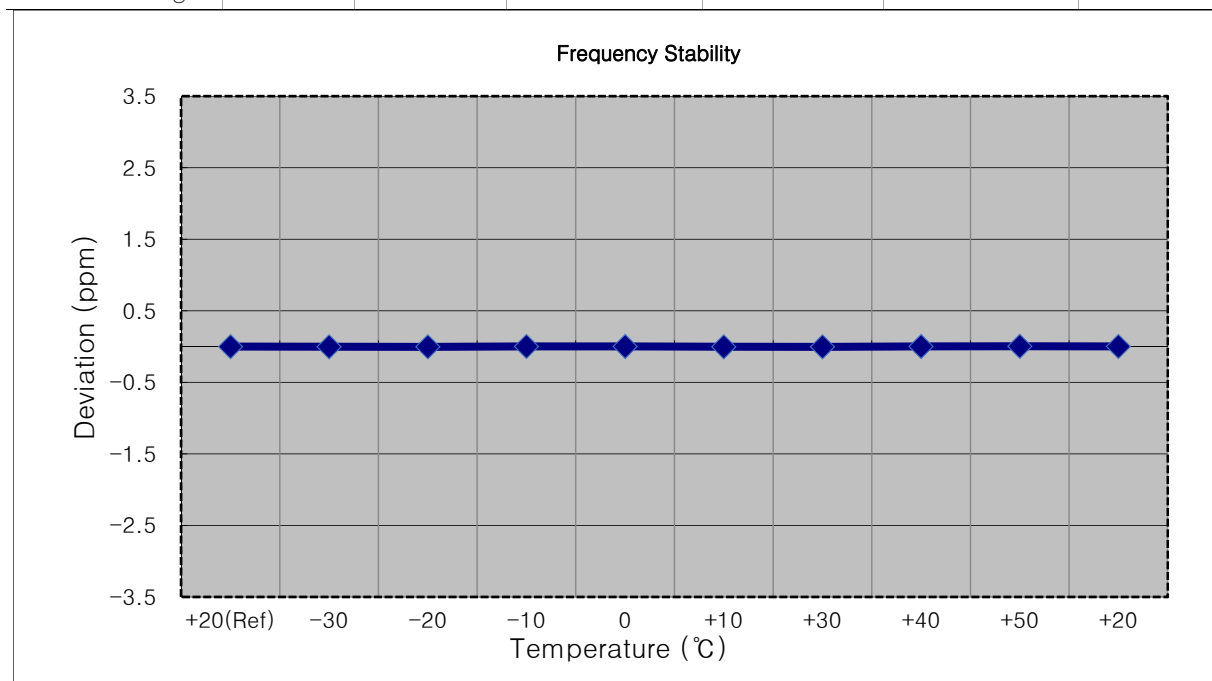
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1857,500,000 Hz</u>
CHANNEL:	<u>26115 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1857 499 994	0.0	0.000 000	0.000
100 %		-30	1857 499 987	-7.7	0.000 000	-0.004
100 %		-20	1857 499 989	-5.8	0.000 000	-0.003
100 %		-10	1857 500 002	7.5	0.000 000	0.004
100 %		0	1857 499 987	-7.5	0.000 000	-0.004
100 %		+10	1857 499 989	-5.3	0.000 000	-0.003
100 %		+30	1857 499 987	-7.4	0.000 000	-0.004
100 %		+40	1857 499 987	-7.7	0.000 000	-0.004
100 %		+50	1857 499 987	-7.6	0.000 000	-0.004
Lowest voltage	3.700	+20	1857 500 000	5.7	0.000 000	0.003



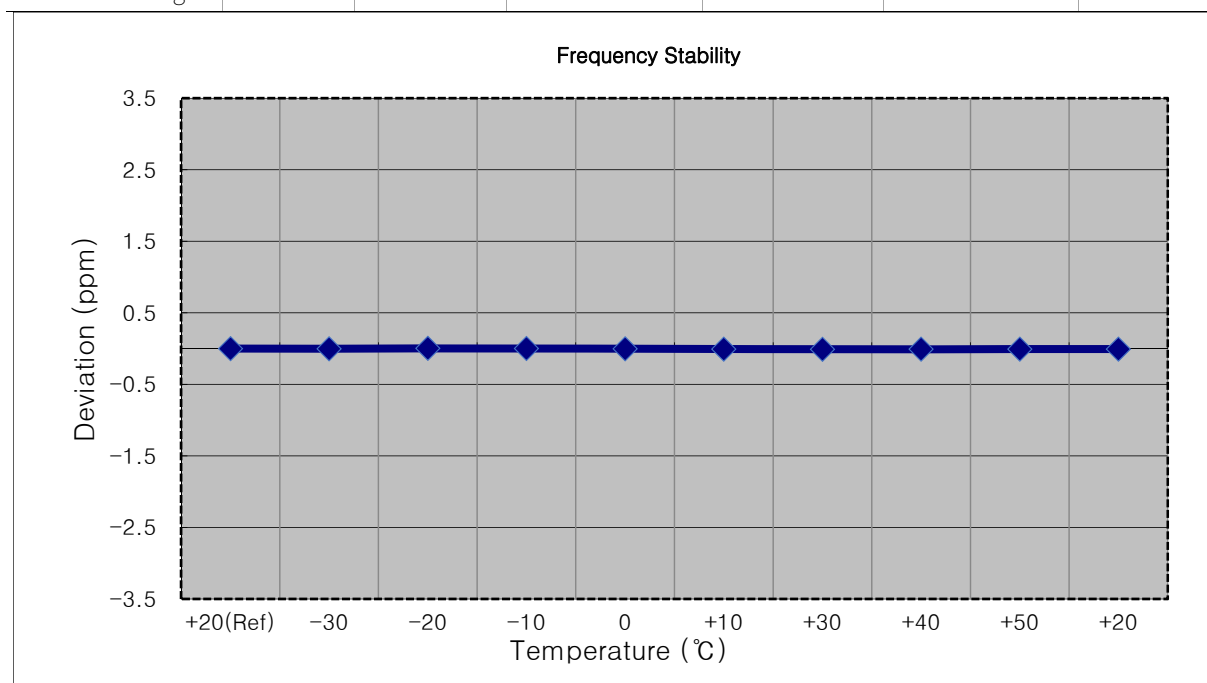
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1860,000,000 Hz</u>
CHANNEL:	<u>26140 (20 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1860 000 004	0.0	0.000 000	0.000
100 %		-30	1859 999 999	-5.0	0.000 000	-0.003
100 %		-20	1859 999 997	-7.0	0.000 000	-0.004
100 %		-10	1860 000 008	4.6	0.000 000	0.002
100 %		0	1860 000 007	3.6	0.000 000	0.002
100 %		+10	1860 000 000	-3.5	0.000 000	-0.002
100 %		+30	1859 999 997	-7.0	0.000 000	-0.004
100 %		+40	1860 000 008	3.8	0.000 000	0.002
100 %		+50	1860 000 011	7.5	0.000 000	0.004
Lowest voltage	3.700	+20	1860 000 008	4.0	0.000 000	0.002



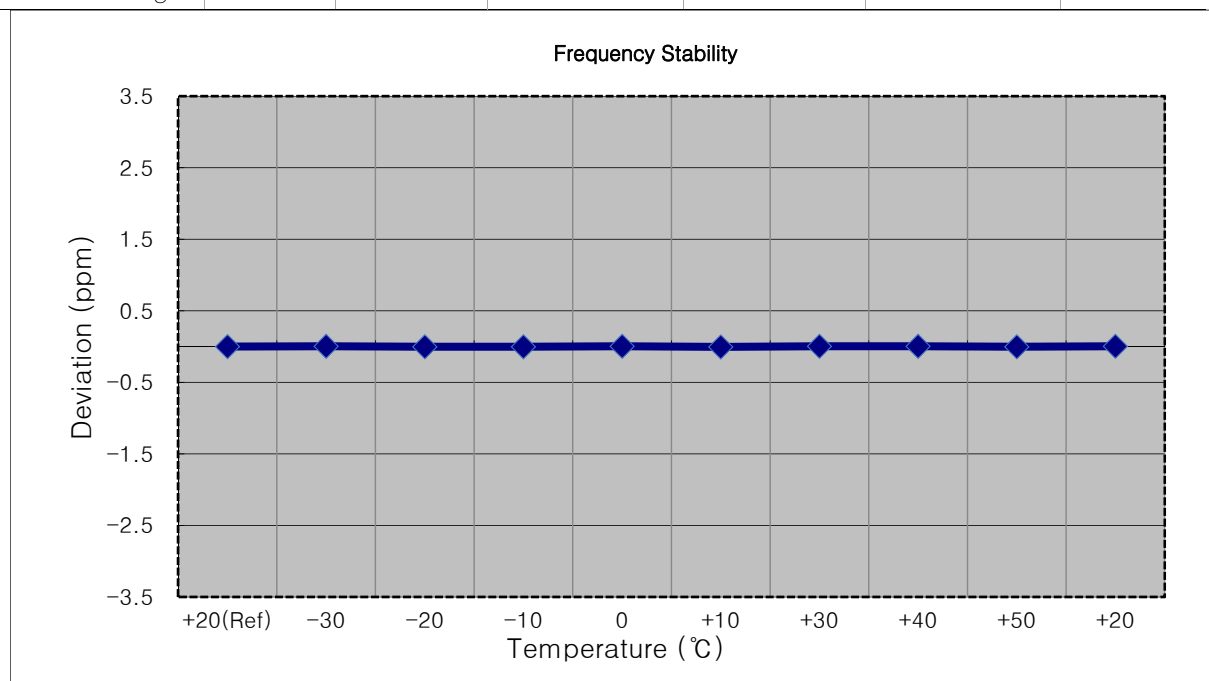
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1882 499 994	0.0	0.000 000	0.000
100 %		-30	1882 499 989	-5.2	0.000 000	-0.003
100 %		-20	1882 500 001	7.0	0.000 000	0.004
100 %		-10	1882 499 998	4.5	0.000 000	0.002
100 %		0	1882 499 987	-6.8	0.000 000	-0.004
100 %		+10	1882 499 981	-12.9	-0.000 001	-0.007
100 %		+30	1882 499 975	-18.7	-0.000 001	-0.010
100 %		+40	1882 499 979	-14.4	-0.000 001	-0.008
100 %		+50	1882 499 982	-12.1	-0.000 001	-0.006
Lowest voltage	3.700	+20	1882 499 979	-14.8	-0.000 001	-0.008



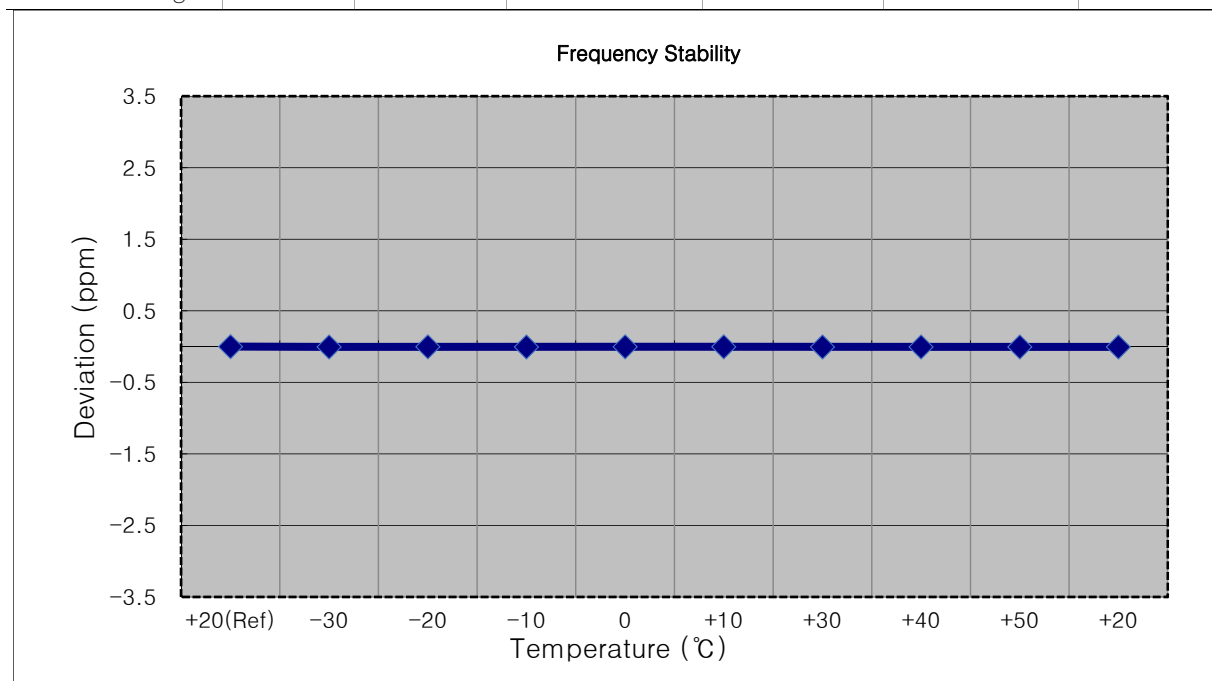
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (3 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1882 500 009	0.0	0.000 000	0.000
100 %		-30	1882 500 016	7.1	0.000 000	0.004
100 %		-20	1882 500 002	-6.1	0.000 000	-0.003
100 %		-10	1882 500 005	-4.0	0.000 000	-0.002
100 %		0	1882 500 018	9.0	0.000 000	0.005
100 %		+10	1882 500 001	-7.9	0.000 000	-0.004
100 %		+30	1882 500 018	9.5	0.000 001	0.005
100 %		+40	1882 500 014	5.5	0.000 000	0.003
100 %		+50	1882 500 002	-6.1	0.000 000	-0.003
Lowest voltage	3.700	+20	1882 500 014	5.4	0.000 000	0.003



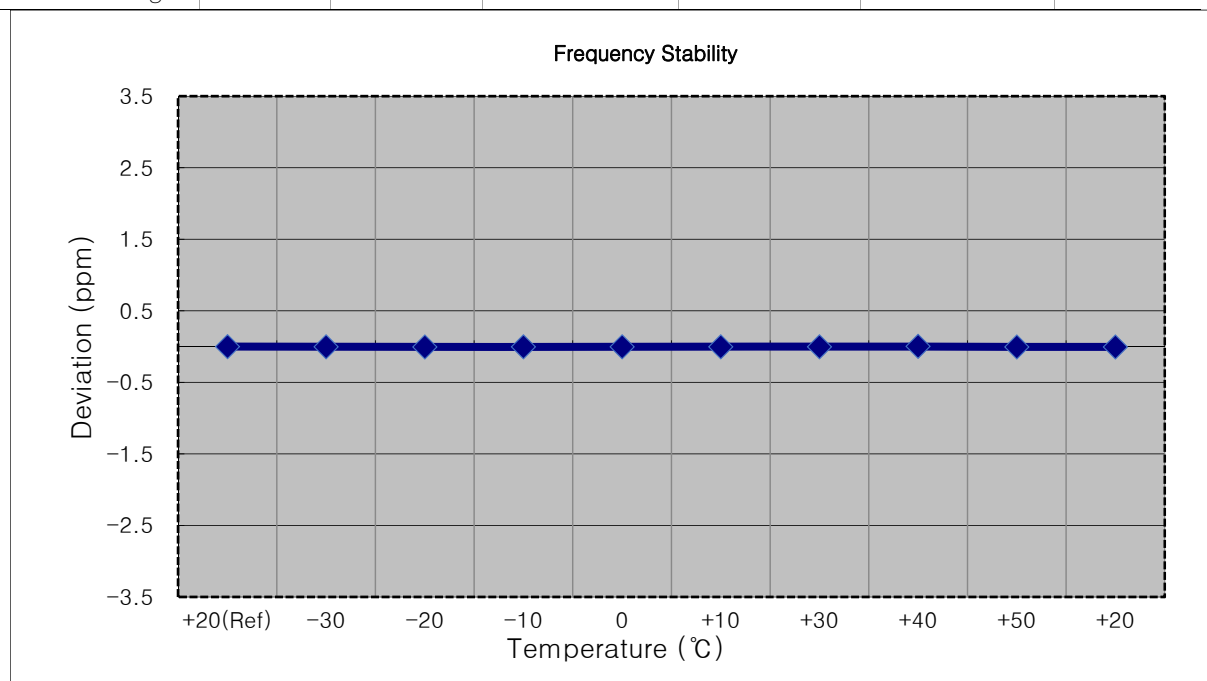
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1882 499 994	0.0	0.000 000	0.000
100 %		-30	1882 499 987	-7.8	0.000 000	-0.004
100 %		-20	1882 499 990	-4.8	0.000 000	-0.003
100 %		-10	1882 499 986	-8.0	0.000 000	-0.004
100 %		0	1882 499 988	-6.3	0.000 000	-0.003
100 %		+10	1882 499 987	-7.0	0.000 000	-0.004
100 %		+30	1882 499 987	-7.4	0.000 000	-0.004
100 %		+40	1882 499 987	-7.5	0.000 000	-0.004
100 %		+50	1882 499 986	-8.5	0.000 000	-0.005
Lowest voltage	3.700	+20	1882 499 986	-8.4	0.000 000	-0.004



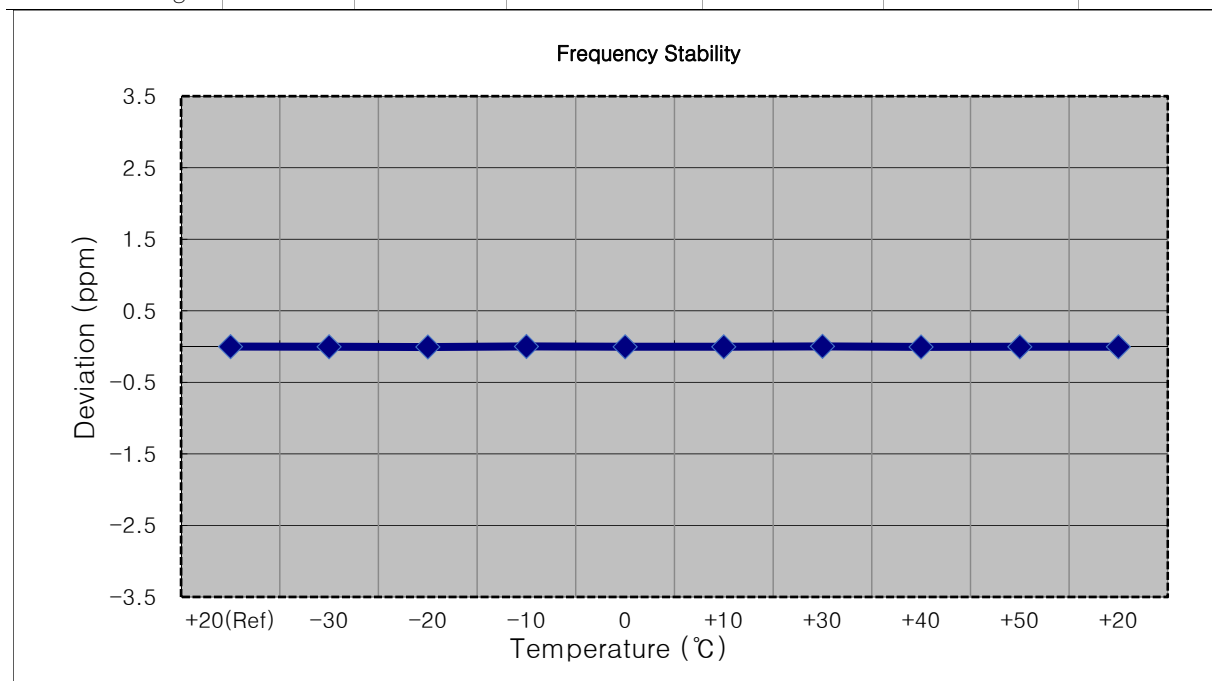
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	4.200	+20(Ref)	1882 499 996	0.0	0.000 000	0.000
100 %		-30	1882 499 990	-5.5	0.000 000	-0.003
100 %		-20	1882 499 985	-10.4	-0.000 001	-0.006
100 %		-10	1882 499 989	-6.1	0.000 000	-0.003
100 %		0	1882 499 989	-6.1	0.000 000	-0.003
100 %		+10	1882 499 990	-5.9	0.000 000	-0.003
100 %		+30	1882 499 990	-5.3	0.000 000	-0.003
100 %		+40	1882 500 002	6.6	0.000 000	0.004
100 %		+50	1882 499 987	-8.1	0.000 000	-0.004
Lowest voltage	3.700	+20	1882 499 986	-9.7	-0.000 001	-0.005



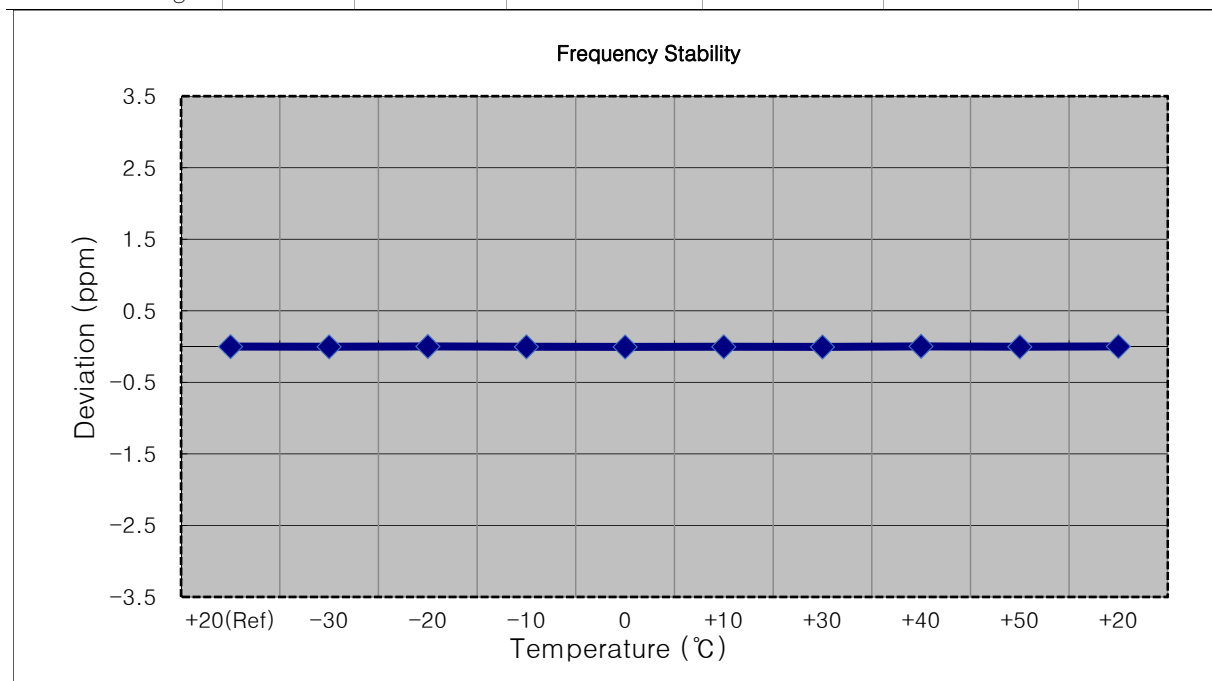
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1882 499 994	0.0	0.000 000	0.000
100 %		-30	1882 499 987	-7.0	0.000 000	-0.004
100 %		-20	1882 499 985	-9.8	-0.000 001	-0.005
100 %		-10	1882 499 999	4.1	0.000 000	0.002
100 %		0	1882 499 991	-3.4	0.000 000	-0.002
100 %		+10	1882 499 989	-5.0	0.000 000	-0.003
100 %		+30	1882 500 001	6.1	0.000 000	0.003
100 %		+40	1882 499 986	-8.7	0.000 000	-0.005
100 %		+50	1882 499 987	-7.1	0.000 000	-0.004
Lowest voltage	3.700	+20	1882 499 988	-6.5	0.000 000	-0.003



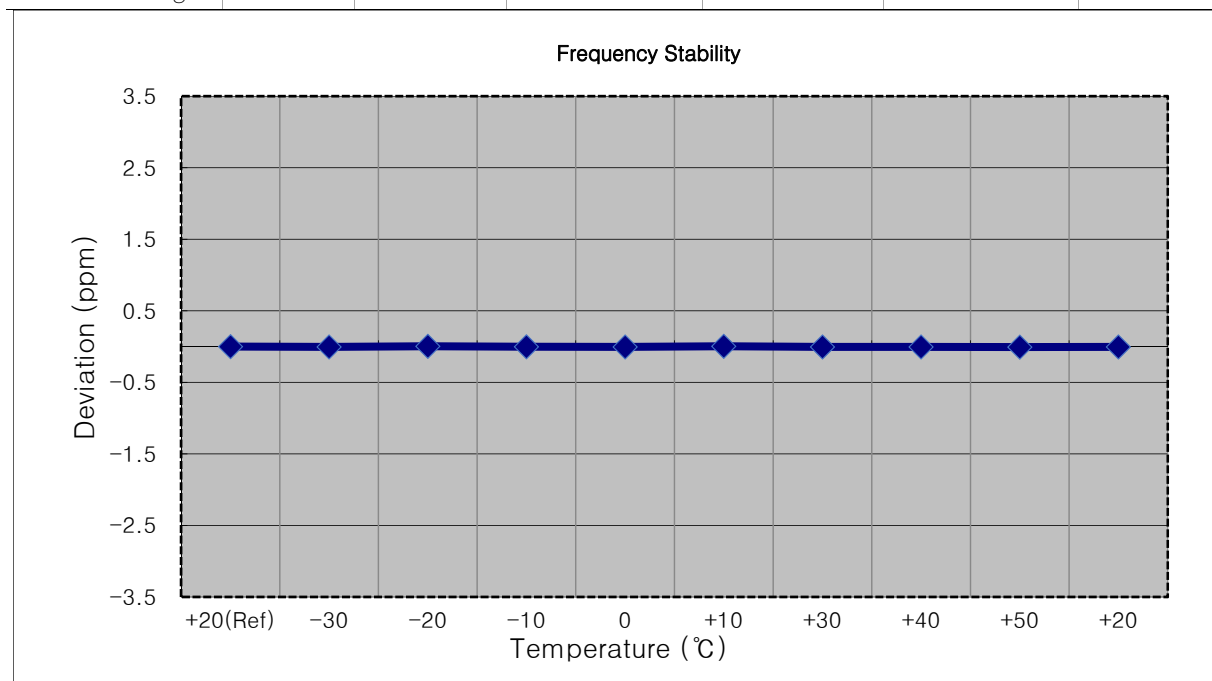
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1882,500,000 Hz</u>
CHANNEL:	<u>26365 (20 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1882 499 992	0.0	0.000 000	0.000
100 %		-30	1882 499 988	-3.8	0.000 000	-0.002
100 %		-20	1882 499 997	4.4	0.000 000	0.002
100 %		-10	1882 499 986	-6.4	0.000 000	-0.003
100 %		0	1882 499 984	-8.0	0.000 000	-0.004
100 %		+10	1882 499 985	-6.7	0.000 000	-0.004
100 %		+30	1882 499 984	-8.0	0.000 000	-0.004
100 %		+40	1882 499 998	5.8	0.000 000	0.003
100 %		+50	1882 499 985	-6.8	0.000 000	-0.004
Lowest voltage	3.700	+20	1882 499 997	5.1	0.000 000	0.003



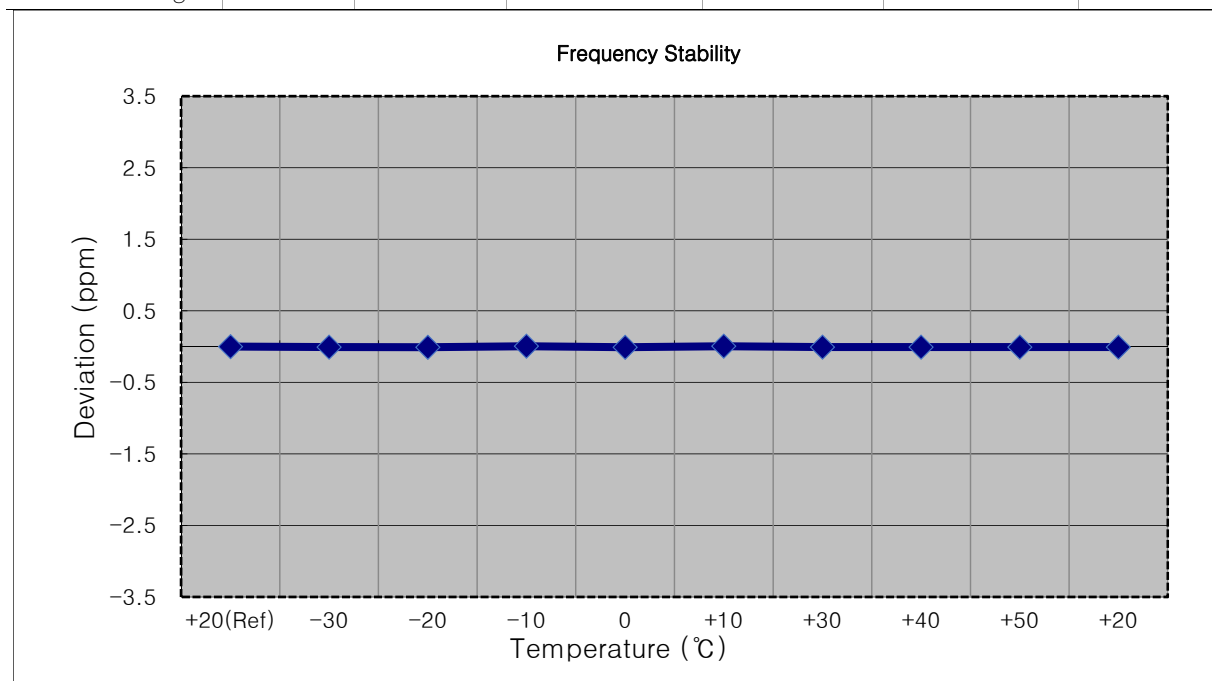
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1914,300,000 Hz</u>
CHANNEL:	<u>26683 (1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1914 299 991	0.0	0.000 000	0.000
100 %		-30	1914 299 980	-11.0	-0.000 001	-0.006
100 %		-20	1914 299 997	5.7	0.000 000	0.003
100 %		-10	1914 299 984	-7.4	0.000 000	-0.004
100 %		0	1914 299 982	-8.9	0.000 000	-0.005
100 %		+10	1914 300 001	9.5	0.000 000	0.005
100 %		+30	1914 299 980	-10.8	-0.000 001	-0.006
100 %		+40	1914 299 982	-9.1	0.000 000	-0.005
100 %		+50	1914 299 979	-11.8	-0.000 001	-0.006
Lowest voltage	3.700	+20	1914 299 982	-8.8	0.000 000	-0.005



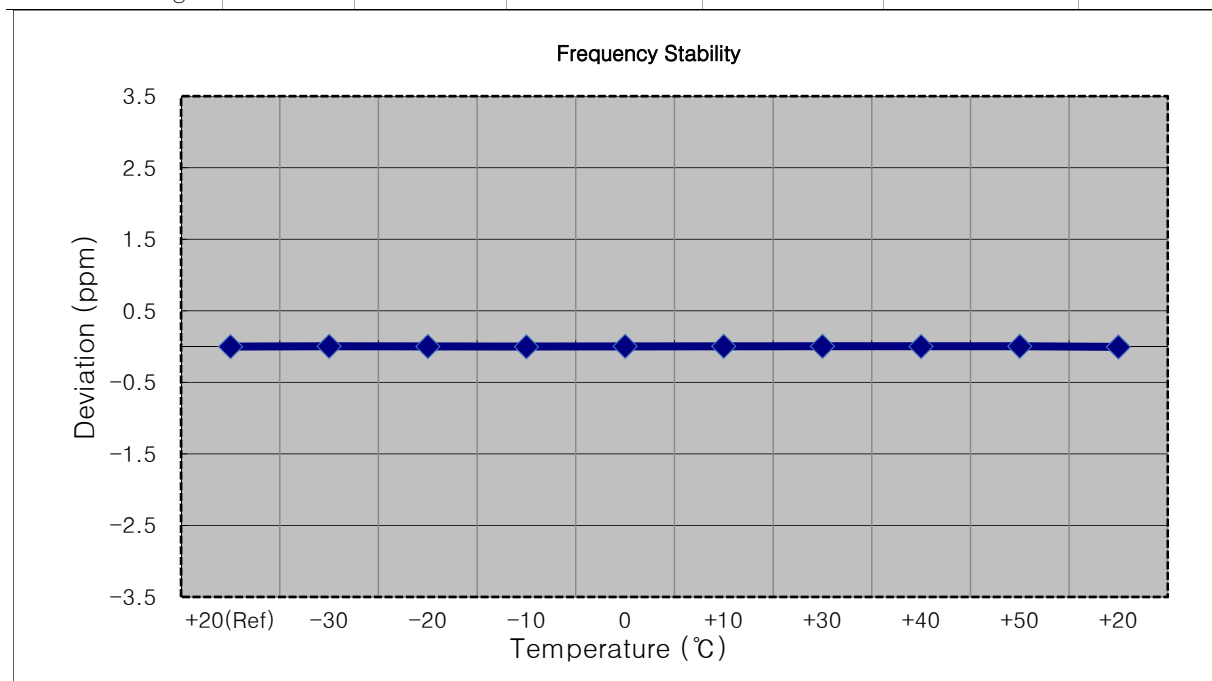
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1913,500,000 Hz</u>
CHANNEL:	<u>26675 (3 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1913 499 992	0.0	0.000 000	0.000
100 %		-30	1913 499 977	-15.1	-0.000 001	-0.008
100 %		-20	1913 499 976	-16.1	-0.000 001	-0.008
100 %		-10	1913 500 002	10.0	0.000 001	0.005
100 %		0	1913 499 976	-16.3	-0.000 001	-0.009
100 %		+10	1913 500 002	10.0	0.000 001	0.005
100 %		+30	1913 499 977	-15.3	-0.000 001	-0.008
100 %		+40	1913 499 978	-14.6	-0.000 001	-0.008
100 %		+50	1913 499 978	-14.5	-0.000 001	-0.008
Lowest voltage	3.700	+20	1913 499 977	-15.0	-0.000 001	-0.008



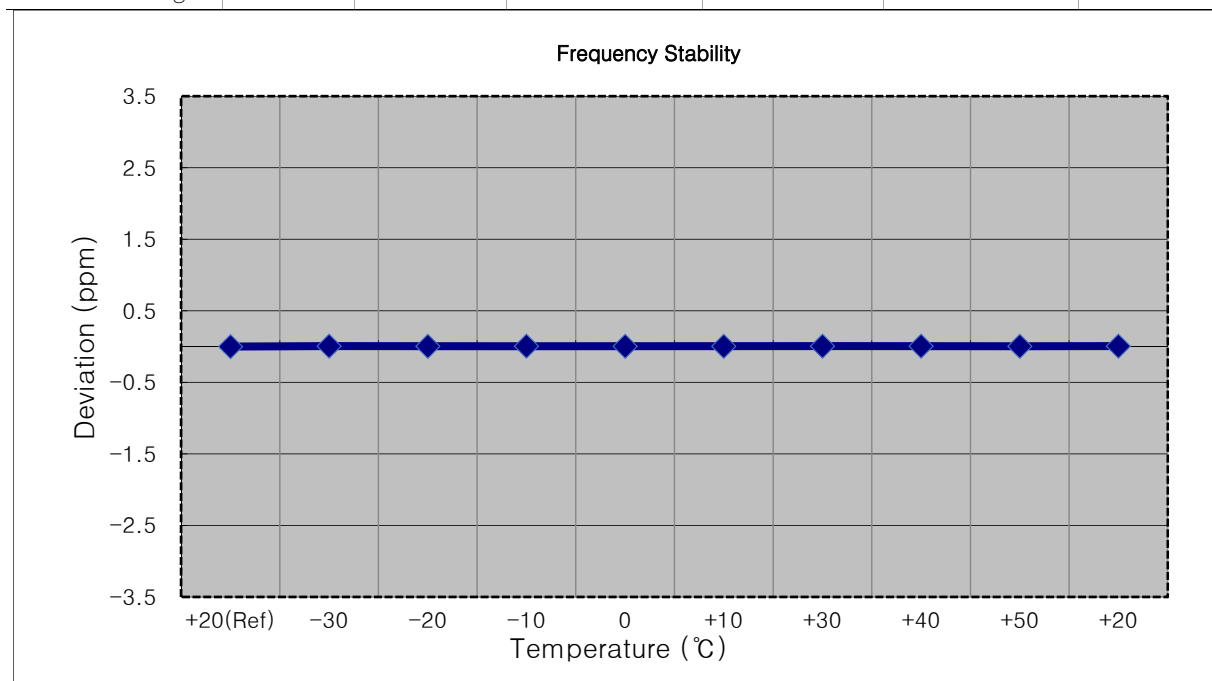
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1912,500,000 Hz</u>
CHANNEL:	<u>26665 (5 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1912 500 004	0.0	0.000 000	0.000
100 %		-30	1912 500 013	8.2	0.000 000	0.004
100 %		-20	1912 500 009	4.2	0.000 000	0.002
100 %		-10	1912 499 998	-6.5	0.000 000	-0.003
100 %		0	1912 500 011	6.8	0.000 000	0.004
100 %		+10	1912 500 012	8.0	0.000 000	0.004
100 %		+30	1912 500 011	6.6	0.000 000	0.003
100 %		+40	1912 500 010	5.1	0.000 000	0.003
100 %		+50	1912 500 011	7.0	0.000 000	0.004
Lowest voltage	3.700	+20	1912 499 995	-9.1	0.000 000	-0.005



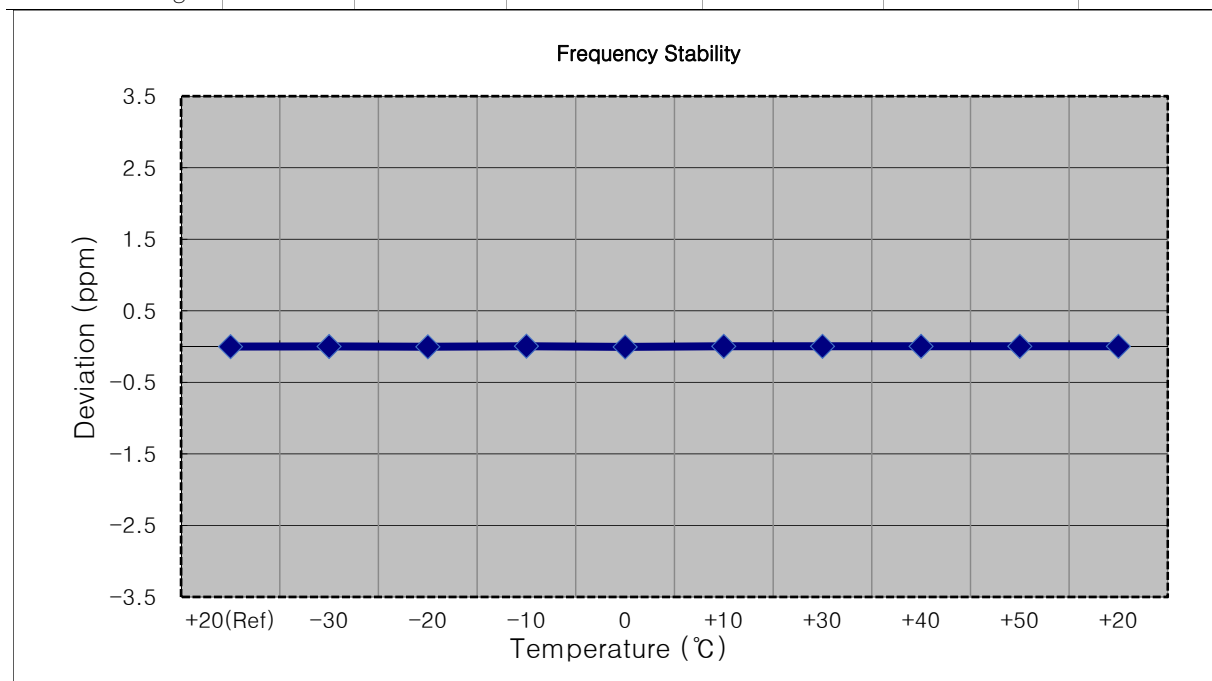
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1910,000,000 Hz</u>
CHANNEL:	<u>26640 (10 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1910 000 008	0.0	0.000 000	0.000
100 %		-30	1910 000 018	10.0	0.000 001	0.005
100 %		-20	1910 000 016	8.2	0.000 000	0.004
100 %		-10	1910 000 020	11.7	0.000 001	0.006
100 %		0	1910 000 017	9.0	0.000 000	0.005
100 %		+10	1910 000 017	8.3	0.000 000	0.004
100 %		+30	1910 000 020	11.8	0.000 001	0.006
100 %		+40	1910 000 018	9.8	0.000 001	0.005
100 %		+50	1910 000 016	7.8	0.000 000	0.004
Lowest voltage	3.700	+20	1910 000 018	10.1	0.000 001	0.005



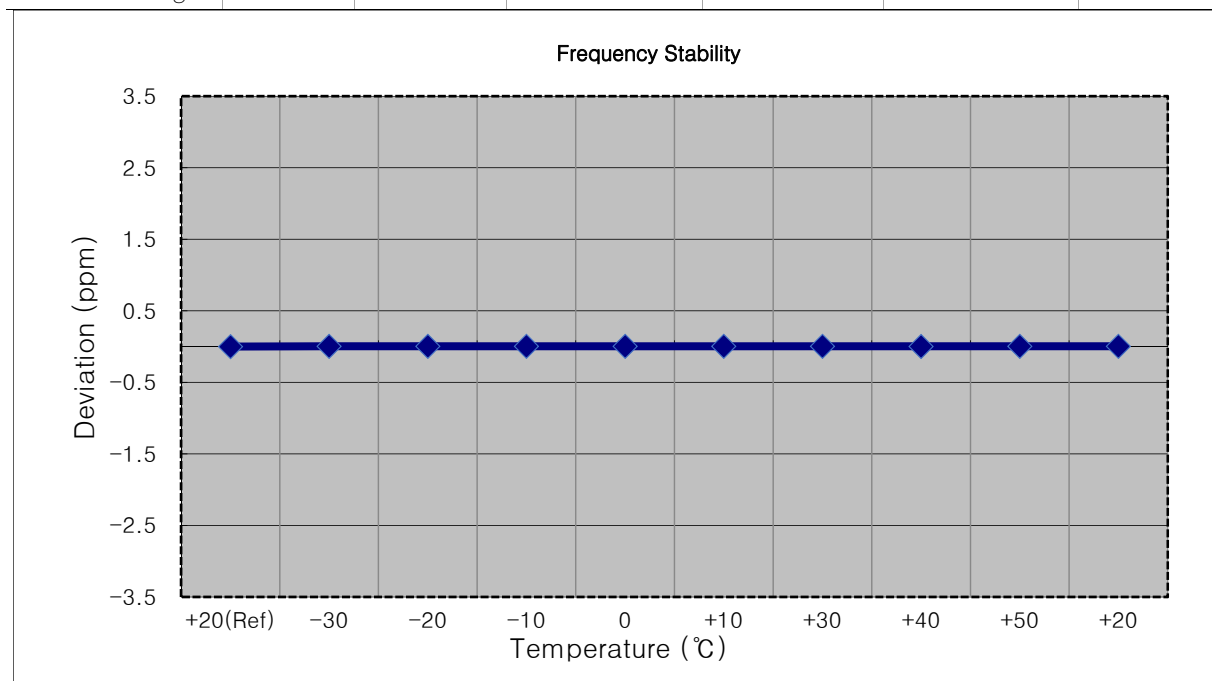
MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1907,500,000 Hz</u>
CHANNEL:	<u>26615 (15 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1907 499 994	0.0	0.000 000	0.000
100 %		-30	1907 499 999	4.6	0.000 000	0.002
100 %		-20	1907 499 987	-6.7	0.000 000	-0.004
100 %		-10	1907 500 004	10.5	0.000 001	0.006
100 %		0	1907 499 987	-7.4	0.000 000	-0.004
100 %		+10	1907 500 003	8.8	0.000 000	0.005
100 %		+30	1907 500 002	8.2	0.000 000	0.004
100 %		+40	1907 500 003	9.5	0.000 000	0.005
100 %		+50	1907 500 000	6.4	0.000 000	0.003
Lowest voltage	3.700	+20	1907 500 001	7.1	0.000 000	0.004



MODE:	<u>LTE B25(2)</u>
OPERATING FREQUENCY:	<u>1905,000,000 Hz</u>
CHANNEL:	<u>26590 (20 MHz)</u>
REFERENCE VOLTAGE:	<u>4.200 VDC</u>
DEVIATION LIMIT:	<u>Emission must remain in band</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	4.200	+20(Ref)	1905 000 009	0.0	0.000 000	0.000
100 %		-30	1905 000 016	7.5	0.000 000	0.004
100 %		-20	1905 000 018	9.3	0.000 000	0.005
100 %		-10	1905 000 016	6.9	0.000 000	0.004
100 %		0	1905 000 018	9.5	0.000 000	0.005
100 %		+10	1905 000 017	7.7	0.000 000	0.004
100 %		+30	1905 000 018	8.8	0.000 000	0.005
100 %		+40	1905 000 014	5.3	0.000 000	0.003
100 %		+50	1905 000 016	6.7	0.000 000	0.004
Lowest voltage	3.700	+20	1905 000 018	9.3	0.000 000	0.005



9. TEST DATA (Internal(BUA))

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1850.7	LTE B25/2 1.4 MHz	QPSK	-21.23	13.67	10.15	2.07	V	< 2.00	0.150	21.75	1	0
		16-QAM	-22.03	12.87	10.15	2.07	V		0.125	20.95		
		64-QAM	-23.04	11.86	10.15	2.07	V		0.099	19.94		
		256-QAM	-26.13	8.77	10.15	2.07	V		0.048	16.85		
1882.5		QPSK	-20.85	14.55	10.11	2.21	V		0.176	22.45	1	0
		16-QAM	-21.59	13.81	10.11	2.21	V		0.148	21.71		
		64-QAM	-22.64	12.76	10.11	2.21	V		0.116	20.66		
		256-QAM	-25.82	9.58	10.11	2.21	V		0.056	17.48		
1914.3		QPSK	-21.12	14.38	10.00	2.17	V		0.166	22.21	1	0
		16-QAM	-21.95	13.55	10.00	2.17	V		0.137	21.38		
		64-QAM	-22.96	12.54	10.00	2.17	V		0.109	20.37		
		256-QAM	-26.03	9.47	10.00	2.17	V		0.054	17.30		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1851.5	LTE B25/2 3 MHz	QPSK	-21.23	13.67	10.15	2.07	V	< 2.00	0.150	21.75	1	14
		16-QAM	-21.83	13.07	10.15	2.07	V		0.130	21.15		
		64-QAM	-23.07	11.83	10.15	2.07	V		0.098	19.91		
		256-QAM	-25.96	8.94	10.15	2.07	V		0.050	17.02		
1882.5		QPSK	-20.74	14.66	10.11	2.21	V		0.181	22.56	1	0
		16-QAM	-21.44	13.96	10.11	2.21	V		0.154	21.86		
		64-QAM	-22.54	12.86	10.11	2.21	V		0.119	20.76		
		256-QAM	-25.64	9.76	10.11	2.21	V		0.058	17.66		
1913.5		QPSK	-20.99	14.51	10.00	2.17	V		0.171	22.34	1	0
		16-QAM	-21.60	13.90	10.00	2.17	V		0.149	21.73		
		64-QAM	-22.69	12.81	10.00	2.17	V		0.116	20.64		
		256-QAM	-25.84	9.66	10.00	2.17	V		0.056	17.49		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1852.5	LTE B25/2 5 MHz	QPSK	-20.79	14.21	10.15	2.08	V	< 2.00	0.169	22.28	1	24
		16-QAM	-21.67	13.33	10.15	2.08	V		0.138	21.40		
		64-QAM	-22.77	12.23	10.15	2.08	V		0.107	20.30		
		256-QAM	-25.82	9.18	10.15	2.08	V		0.053	17.25		
1882.5		QPSK	-20.71	14.69	10.11	2.21	V		0.181	22.59	1	13
		16-QAM	-21.42	13.98	10.11	2.21	V		0.154	21.88		
		64-QAM	-22.49	12.91	10.11	2.21	V		0.120	20.81		
		256-QAM	-25.80	9.60	10.11	2.21	V		0.056	17.50		
1912.5		QPSK	-20.71	14.79	10.00	2.17	V		0.183	22.62	1	0
		16-QAM	-21.53	13.97	10.00	2.17	V		0.151	21.80		
		64-QAM	-22.61	12.89	10.00	2.17	V		0.118	20.72		
		256-QAM	-25.78	9.72	10.00	2.17	V		0.057	17.55		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1855.0	LTE B25/2 10 MHz	QPSK	-20.82	14.18	10.15	2.08	V	< 2.00	0.168	22.25	1	25
		16-QAM	-21.53	13.47	10.15	2.08	V		0.143	21.54		
		64-QAM	-22.59	12.41	10.15	2.08	V		0.112	20.48		
		256-QAM	-25.68	9.32	10.15	2.08	V		0.055	17.39		
1882.5		QPSK	-20.85	14.55	10.11	2.21	V		0.176	22.45	1	25
		16-QAM	-21.42	13.98	10.11	2.21	V		0.154	21.88		
		64-QAM	-22.46	12.94	10.11	2.21	V		0.121	20.84		
		256-QAM	-25.72	9.68	10.11	2.21	V		0.057	17.58		
1910.0		QPSK	-20.79	14.69	10.03	2.17	V		0.180	22.55	1	0
		16-QAM	-21.63	13.85	10.03	2.17	V		0.148	21.71		
		64-QAM	-22.92	12.56	10.03	2.17	V		0.110	20.42		
		256-QAM	-25.75	9.73	10.03	2.17	V		0.057	17.59		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1857.5	LTE B25/2 15 MHz	QPSK	-20.67	14.45	10.14	2.10	V	< 2.00	0.178	22.49	1	74
		16-QAM	-21.36	13.76	10.14	2.10	V		0.151	21.80		
		64-QAM	-22.36	12.76	10.14	2.10	V		0.120	20.80		
		256-QAM	-25.60	9.52	10.14	2.10	V		0.057	17.56		
1882.5		QPSK	-20.66	14.74	10.11	2.21	V		0.184	22.64	1	0
		16-QAM	-21.11	14.29	10.11	2.21	V		0.166	22.19		
		64-QAM	-22.28	13.12	10.11	2.21	V		0.126	21.02		
		256-QAM	-25.31	10.09	10.11	2.21	V		0.063	17.99		
1907.5		QPSK	-20.70	14.78	10.03	2.17	V		0.183	22.64	1	38
		16-QAM	-21.36	14.12	10.03	2.17	V		0.158	21.98		
		64-QAM	-22.47	13.01	10.03	2.17	V		0.122	20.87		
		256-QAM	-25.54	9.94	10.03	2.17	V		0.060	17.80		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1860.0	LTE B25/2 20 MHz	QPSK	-20.68	14.44	10.14	2.10	V	< 2.00	0.177	22.48	1	50
		16-QAM	-21.42	13.70	10.14	2.10	V		0.149	21.74		
		64-QAM	-22.63	12.49	10.14	2.10	V		0.113	20.53		
		256-QAM	-25.66	9.46	10.14	2.10	V		0.056	17.50		
1882.5		QPSK	-20.60	14.80	10.11	2.21	V		0.186	22.70	1	99
		16-QAM	-21.18	14.22	10.11	2.21	V		0.163	22.12		
		64-QAM	-22.47	12.93	10.11	2.21	V		0.121	20.83		
		256-QAM	-25.55	9.85	10.11	2.21	V		0.060	17.75		
1905.0		QPSK	-20.61	14.89	10.05	2.19	V		0.188	22.75	1	0
		16-QAM	-21.06	14.44	10.05	2.19	V		0.170	22.30		
		64-QAM	-22.49	13.01	10.05	2.19	V		0.122	20.87		
		256-QAM	-25.56	9.94	10.05	2.19	V		0.060	17.80		

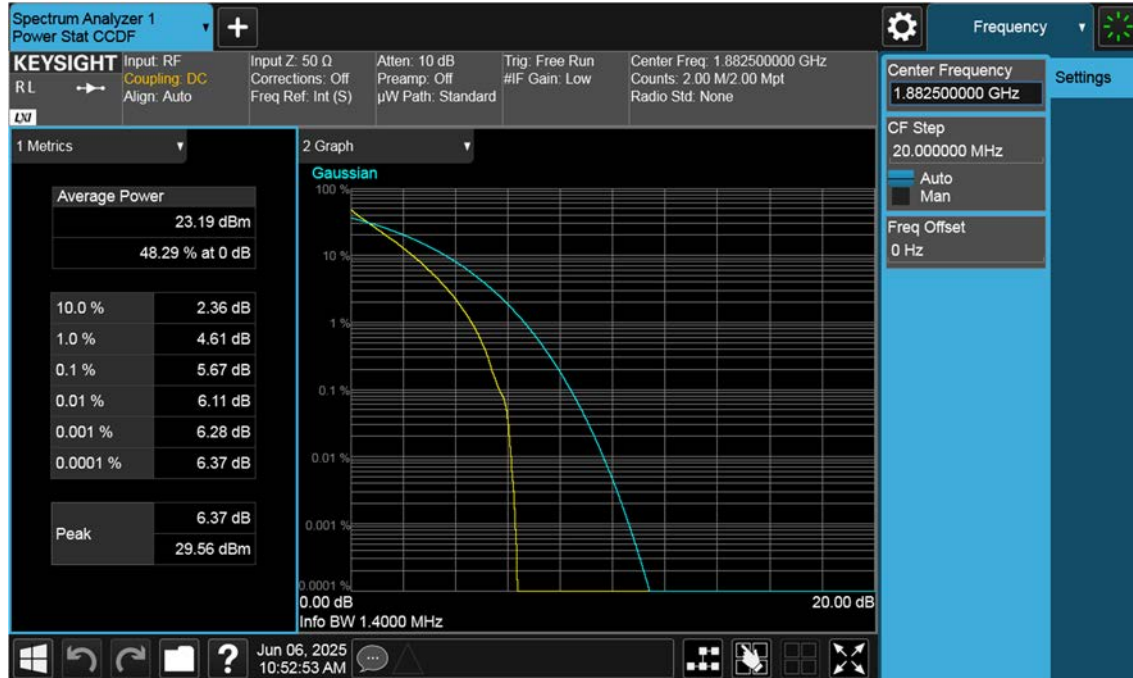
9.2 RADIATED SPURIOUS EMISSIONS

☒ MODE: LTE B25(2)
☒ MODULATION SIGNAL: 20 MHz QPSK
☒ DISTANCE: 3 meters
☒ LIMIT: -13 dBm

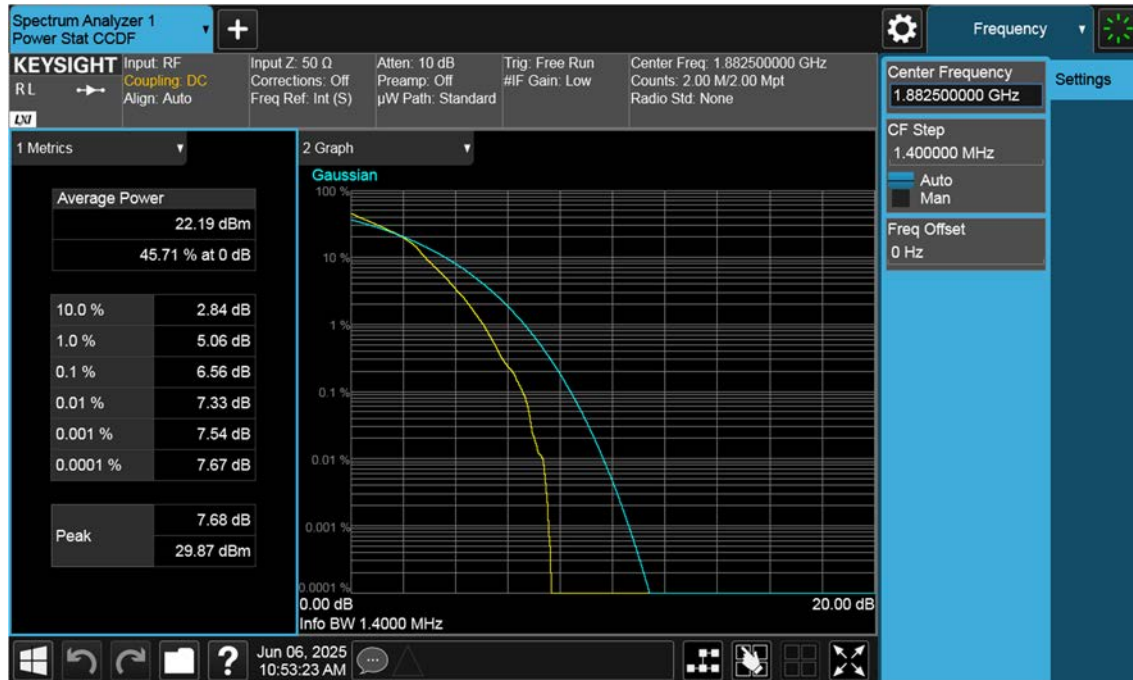
Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	RB	
								Size	Offset
26140 (1860.0)	3 720.00	-48.38	11.77	-55.64	3.13	V	-47.00	1	50
	5 580.00	-54.30	12.08	-55.84	3.91	H	-47.67		
	7 440.00	-53.98	11.22	-49.93	4.58	V	-43.29		
	9 300.00	-54.50	11.27	-43.52	5.30	H	-37.55		
	11 160.00	-53.67	12.33	-47.20	5.83	H	-40.70		
26365 (1882.5)	3 765.00	-49.91	11.59	-56.38	3.11	V	-47.90	1	99
	5 647.50	-55.15	12.01	-56.35	3.96	H	-48.30		
	7 530.00	-54.38	11.50	-50.64	4.60	H	-43.74		
	9 412.50	-55.05	11.28	-45.26	5.25	V	-39.23		
	11 295.00	-53.48	12.26	-46.21	5.83	V	-39.78		
26590 (1905.0)	3 810.00	-50.07	11.36	-56.43	3.20	V	-48.27	1	0
	5 715.00	-51.83	11.86	-52.66	4.01	V	-44.81		
	7 620.00	-54.18	11.57	-50.21	4.65	H	-43.29		
	9 525.00	-54.53	11.29	-45.12	5.27	H	-39.10		
	11 430.00	-54.21	12.29	-46.93	5.84	V	-40.48		

10. TEST PLOTS

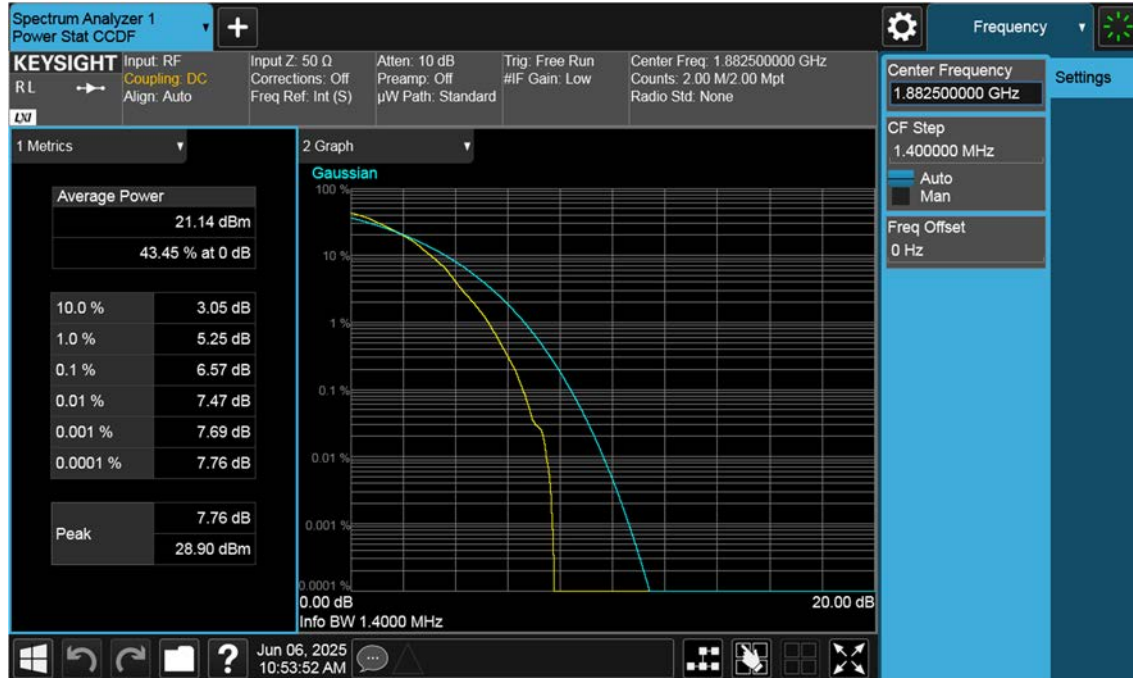
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LTE B25_1.4M_PAR_Mid_16QAM_FullRB



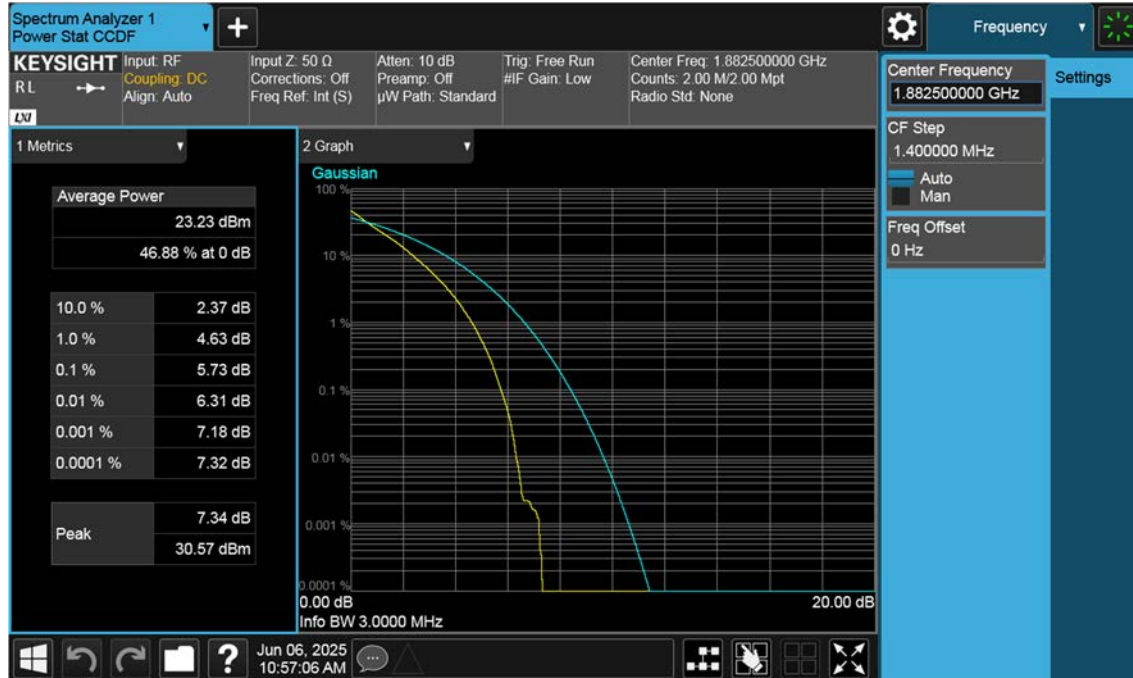
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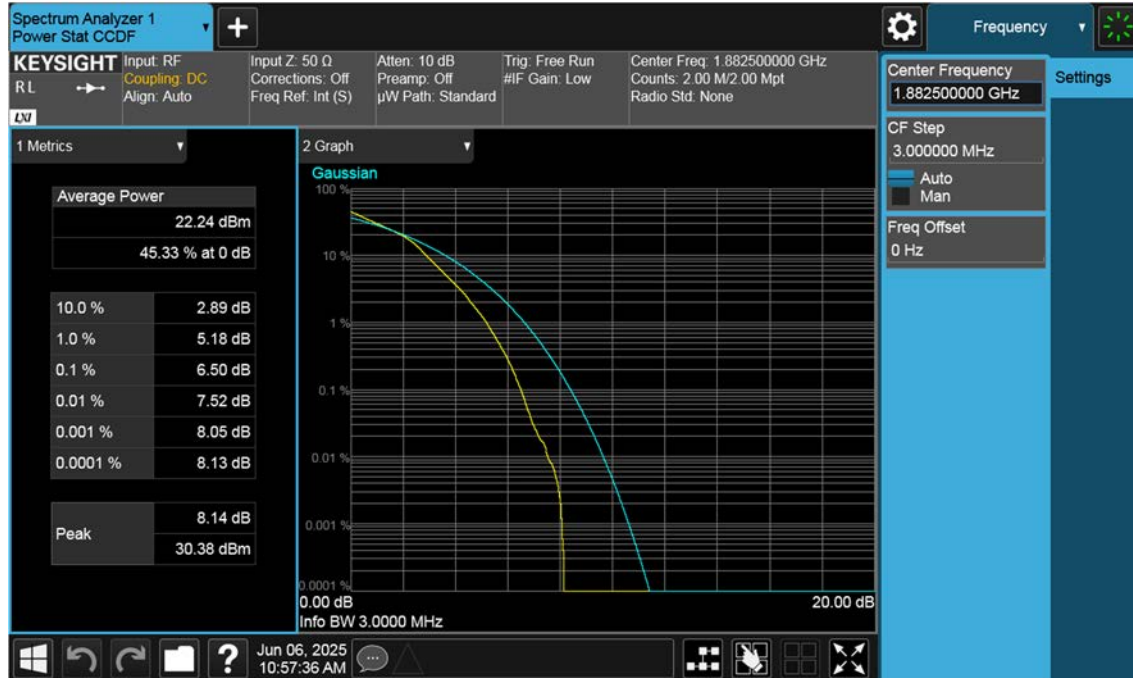
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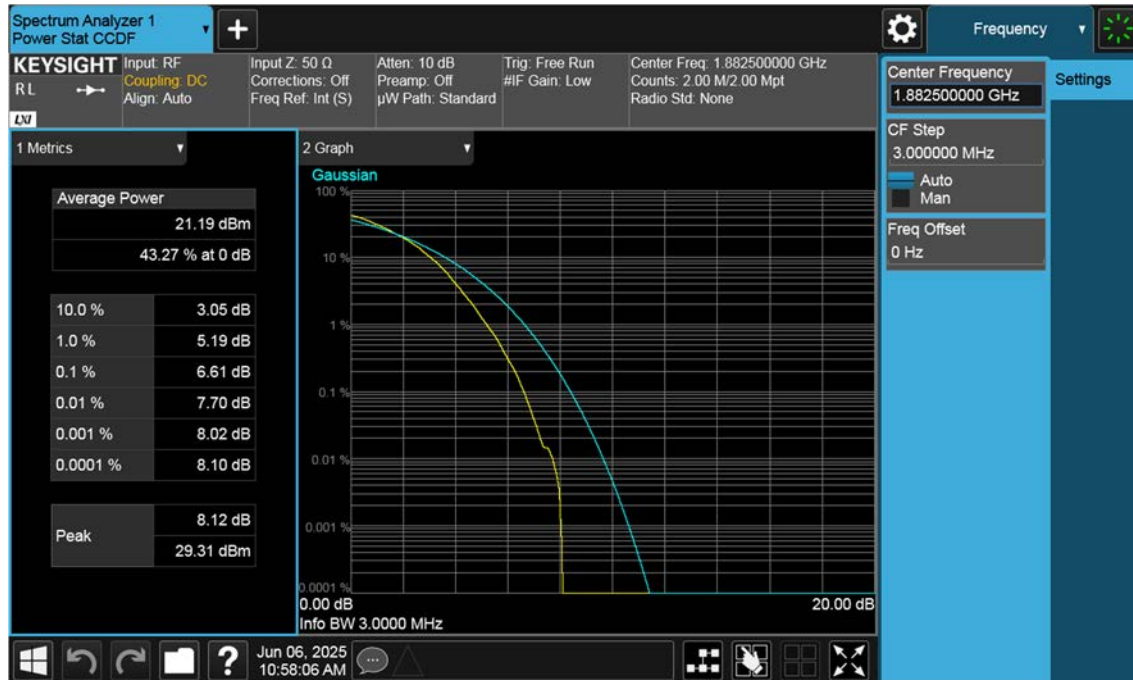
LTE B25_3 M_PAR_Mid_QPSK_FullRB



LTE B25_3 M_PAR_Mid_16QAM_FullRB



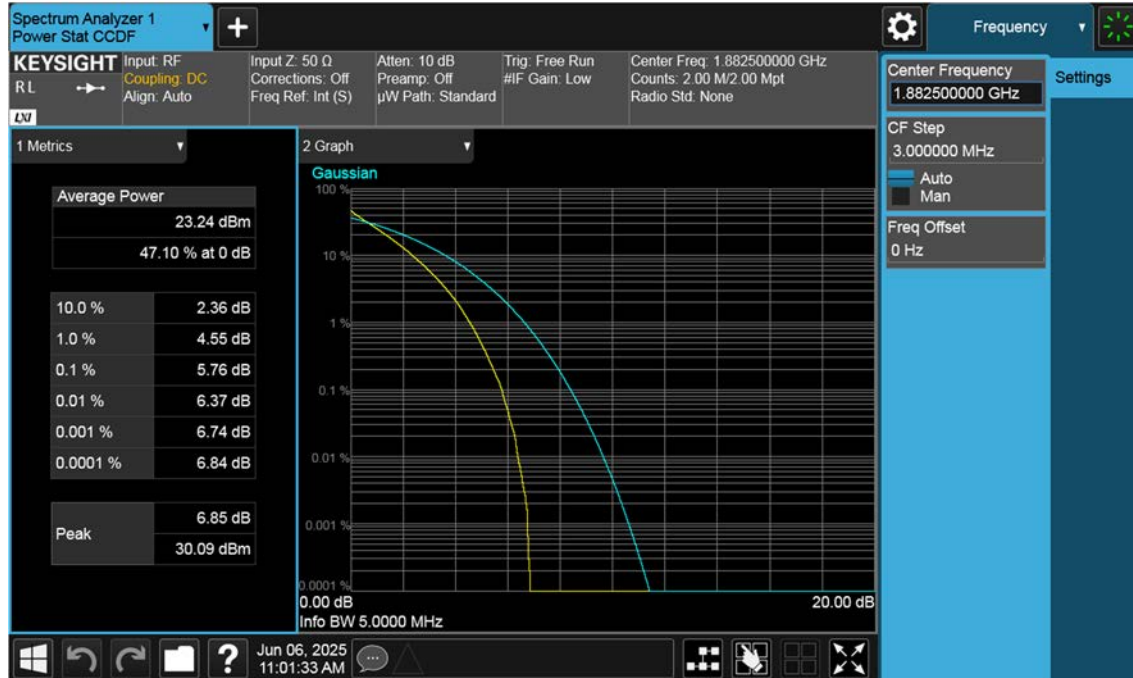
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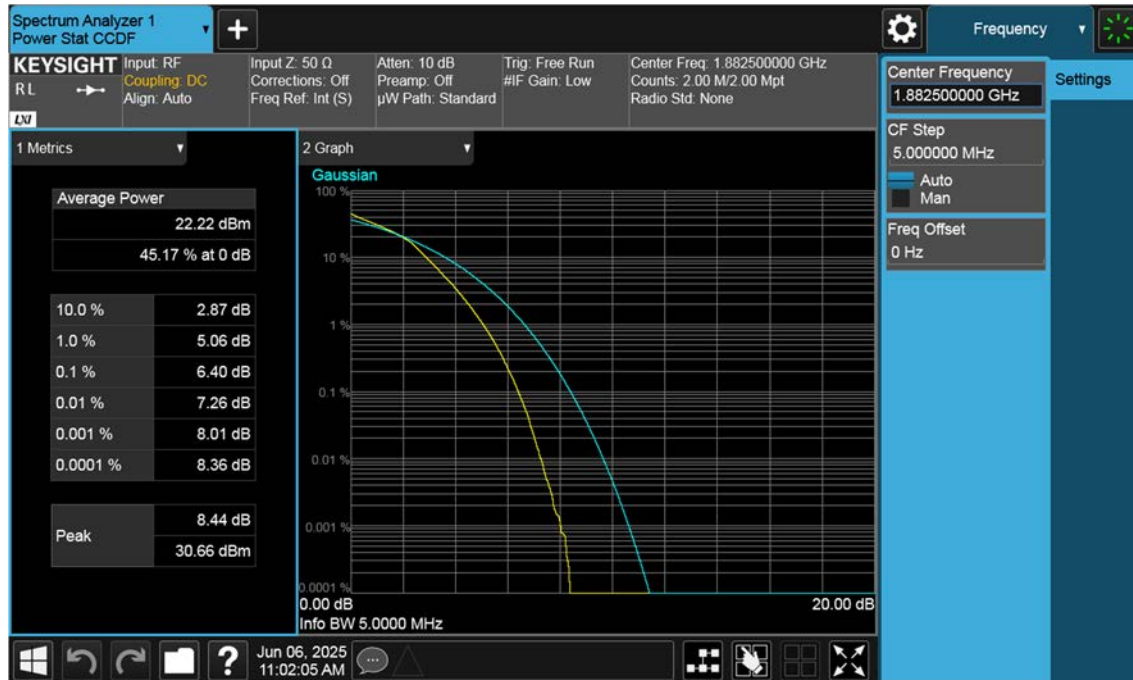
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LTE B25_5 M_PAR_Mid_QPSK_FullRB



LTE B25_5 M_PAR_Mid_16QAM_FullRB



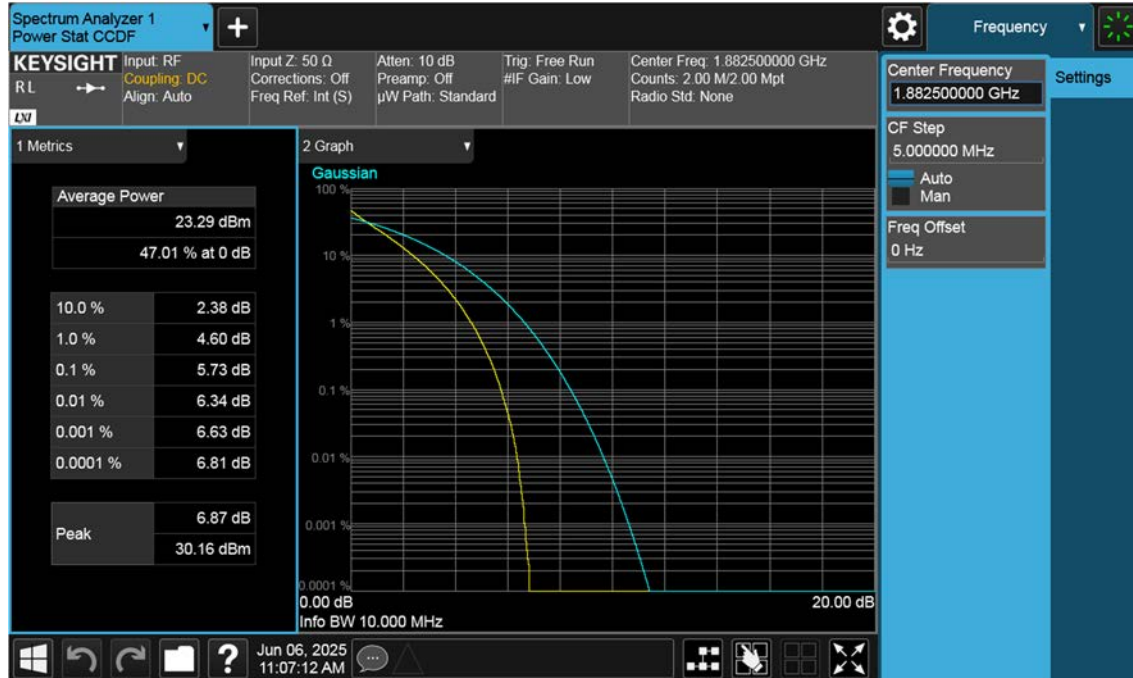
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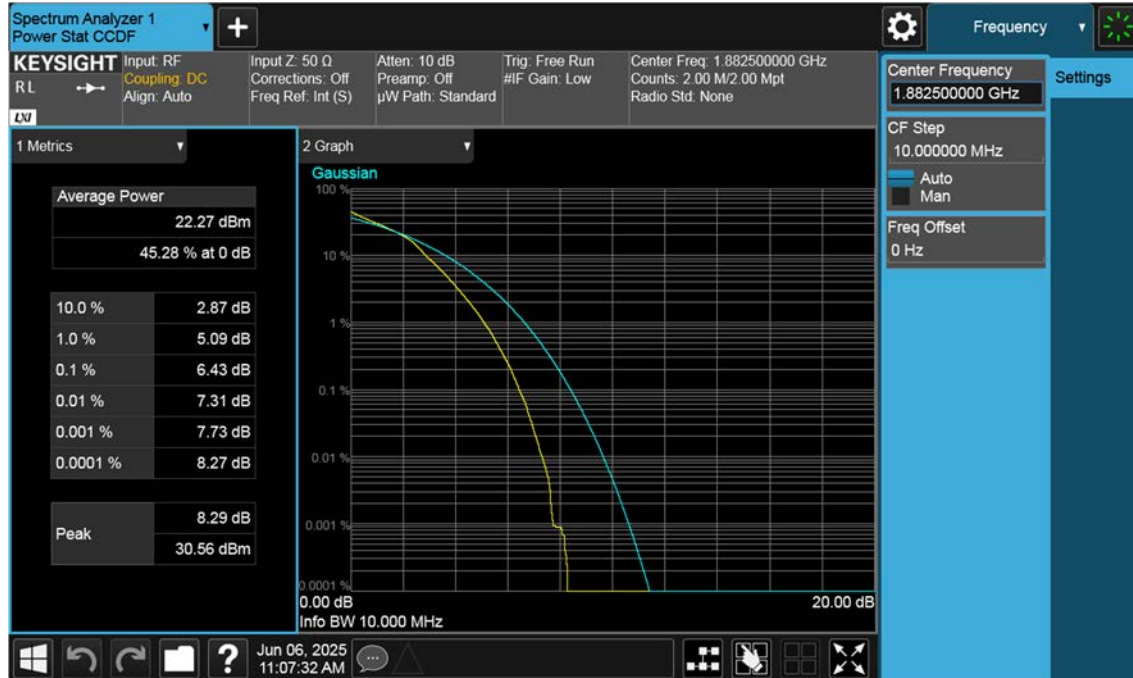
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LTE B25_10 M_PAR_Mid_QPSK_FullRB



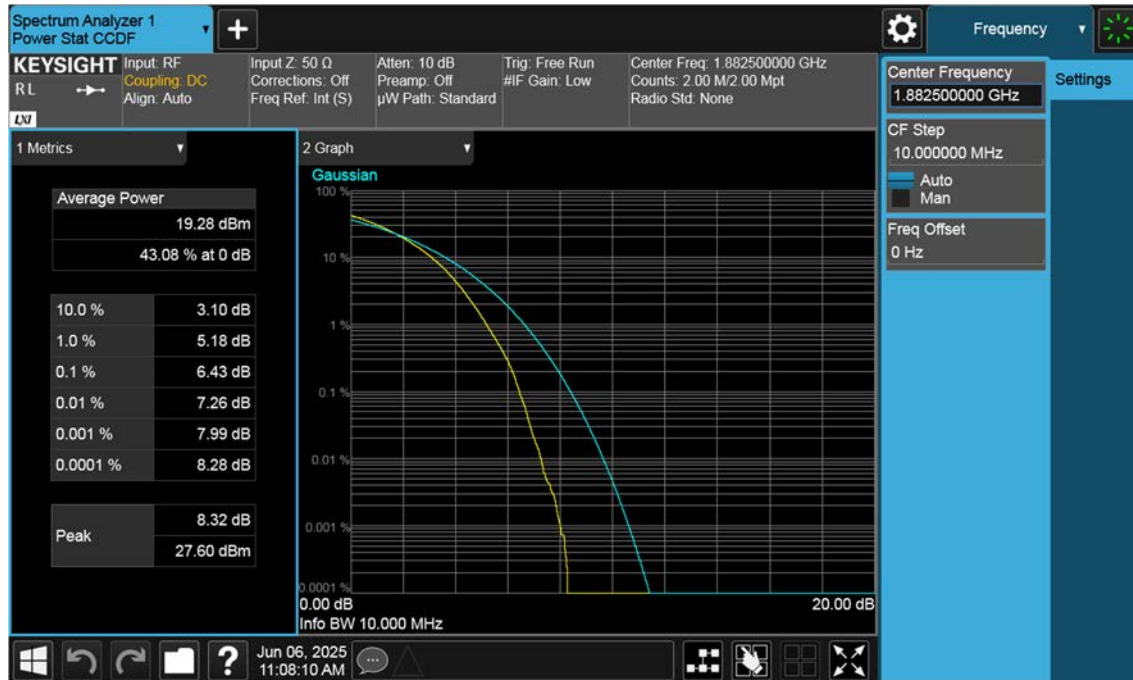
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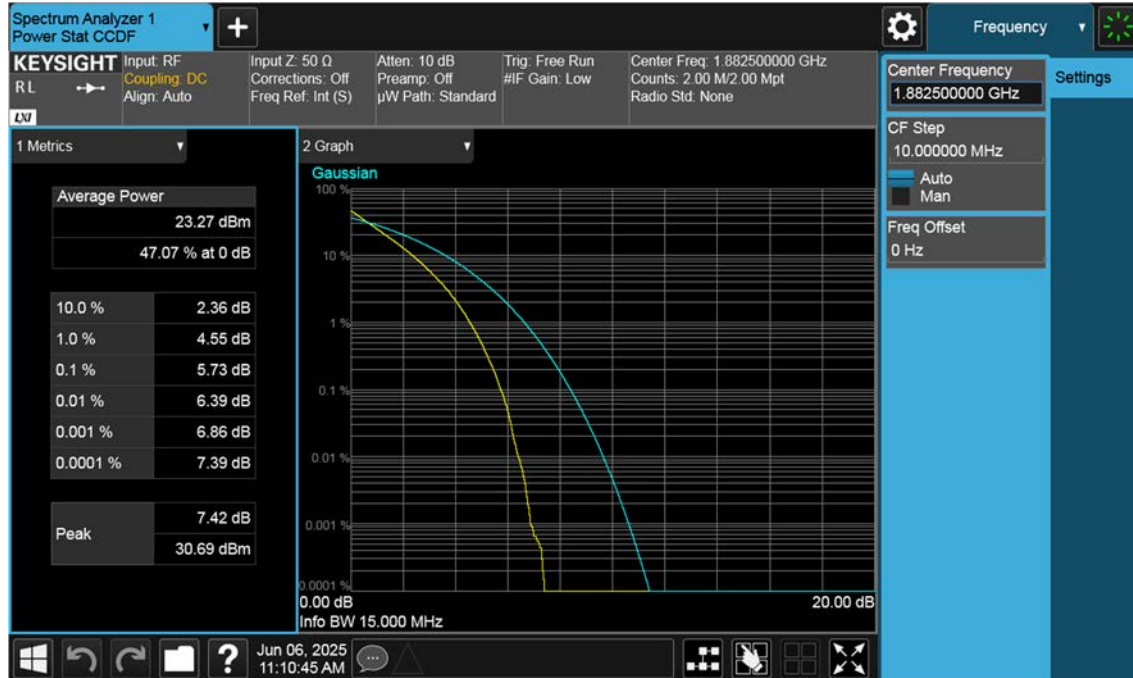
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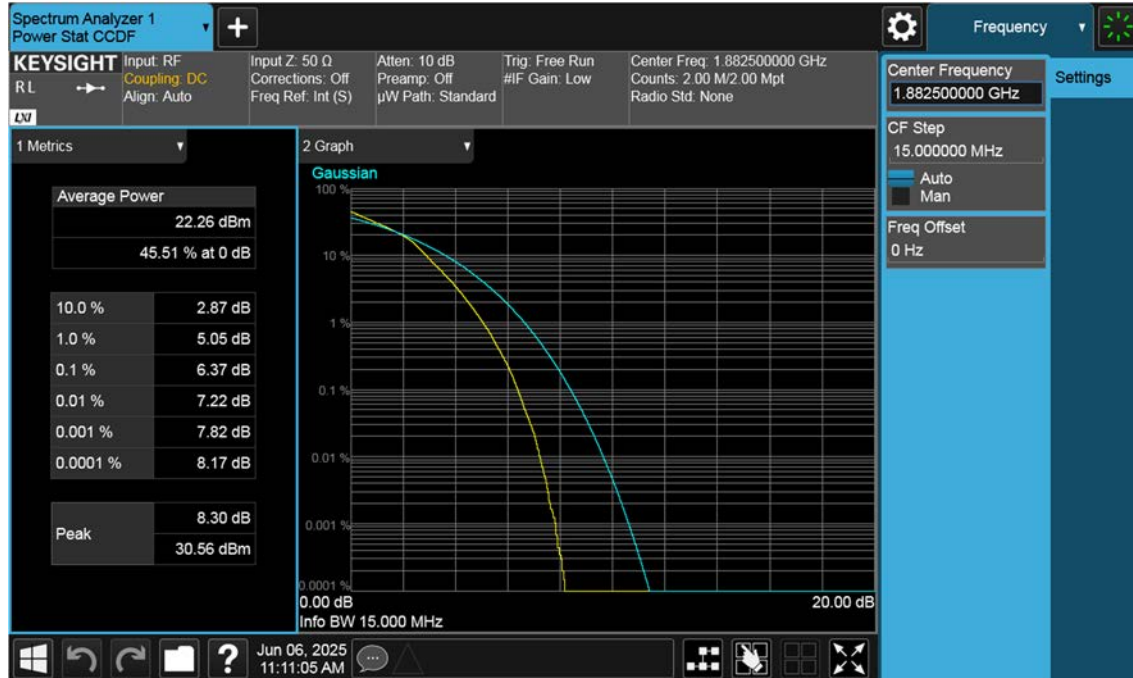
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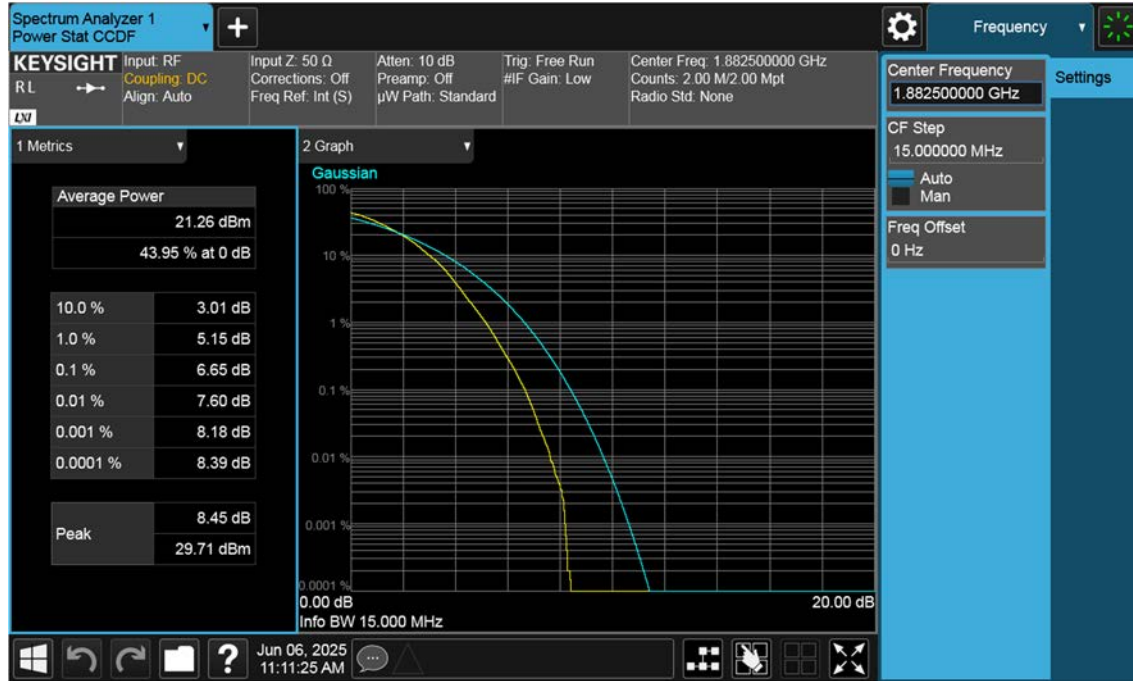
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LTE B25_15 M_PAR_Mid_16QAM_FullRB



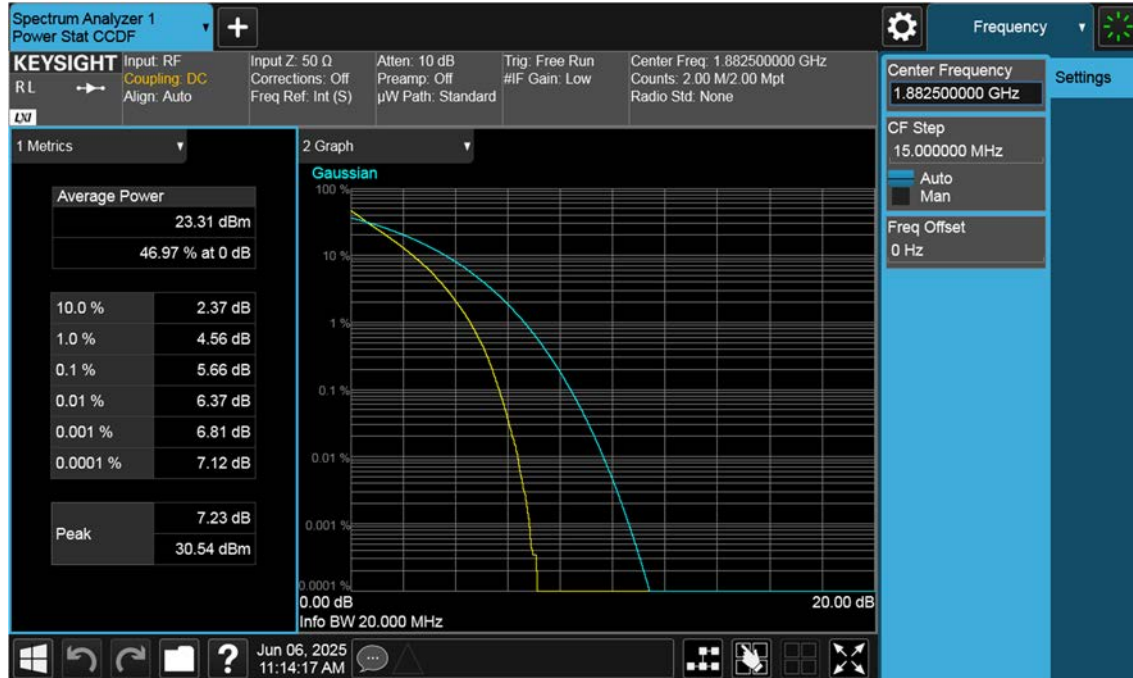
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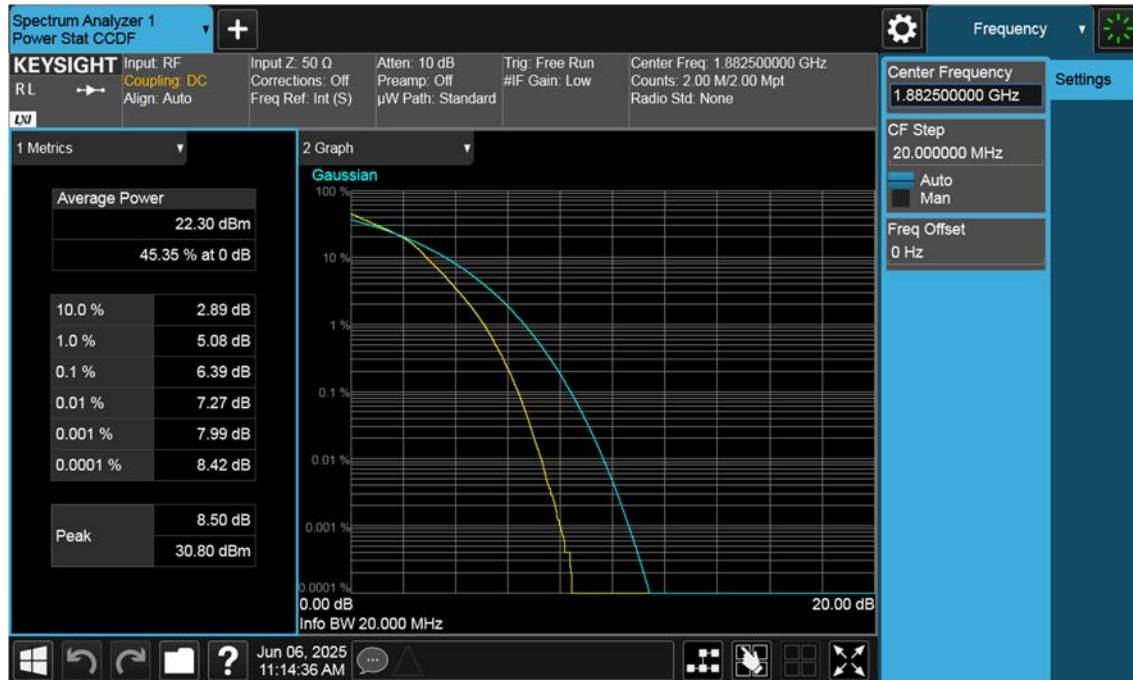
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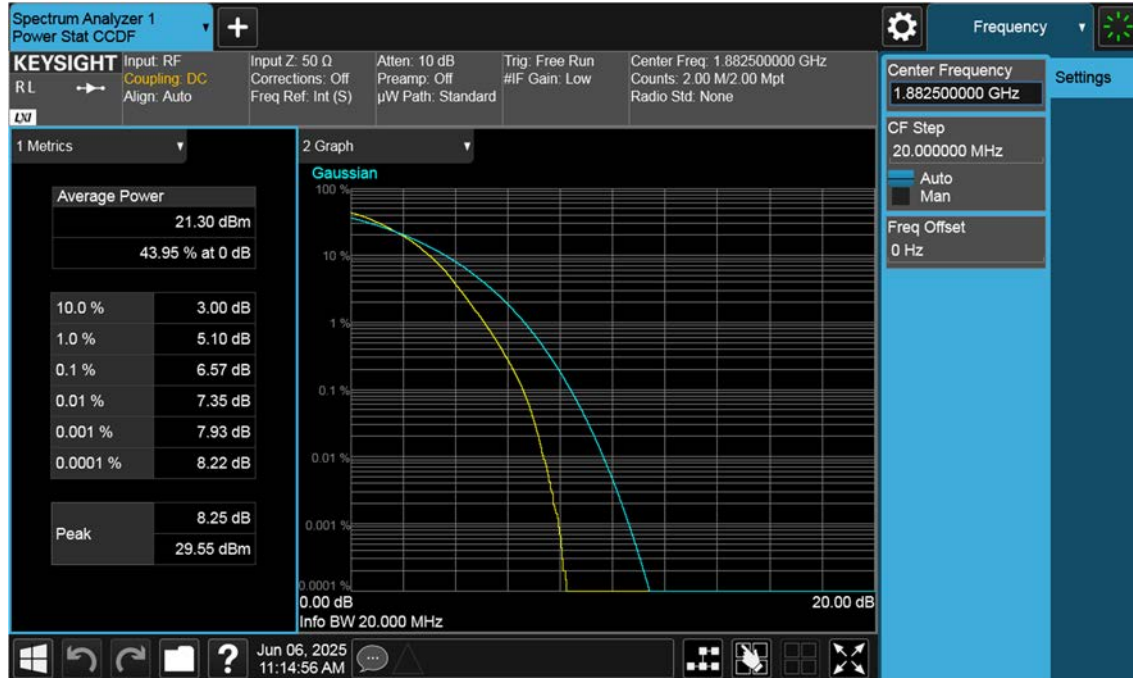
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LTE B25_20 M_PAR_Mid_16QAM_FullRB



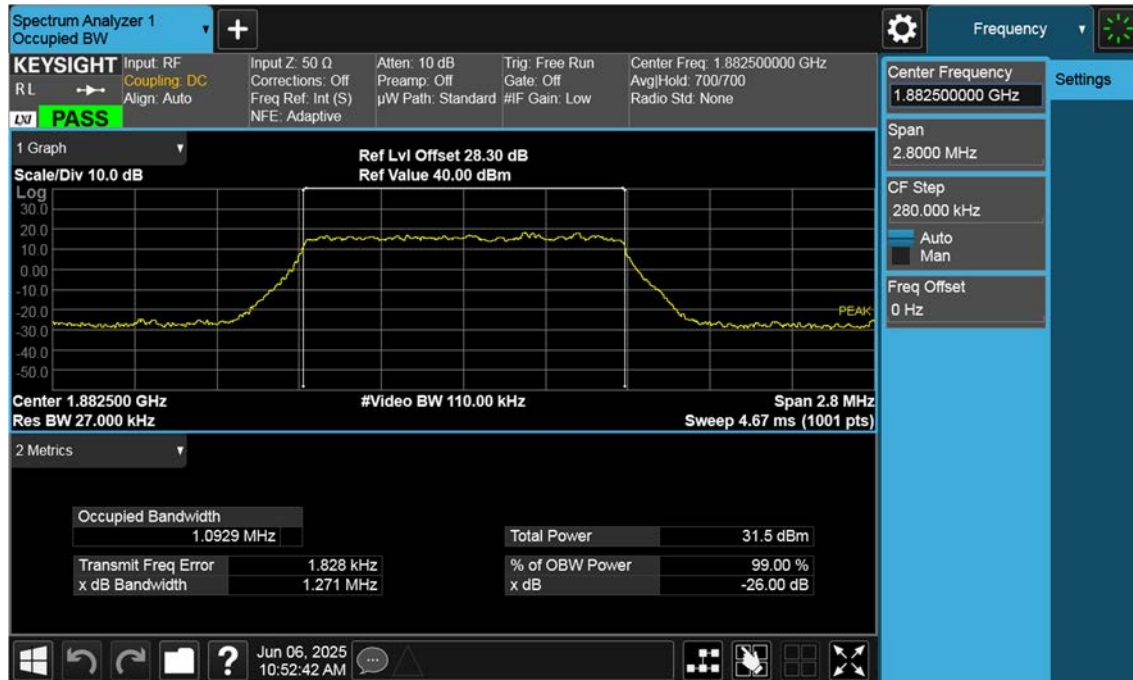
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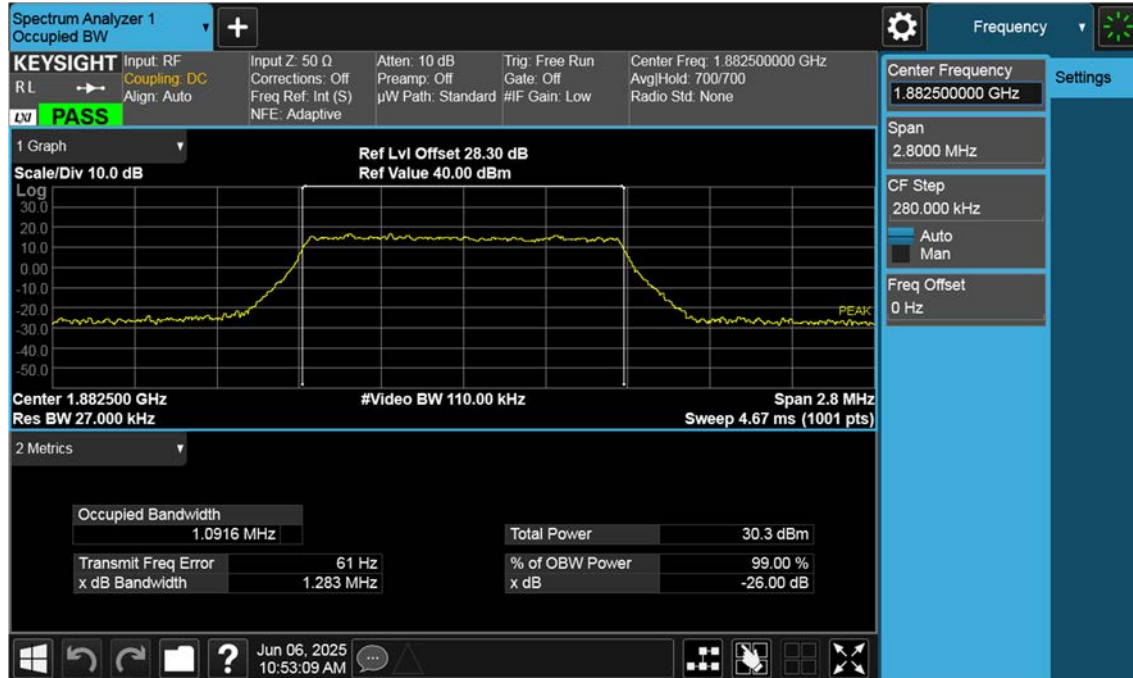
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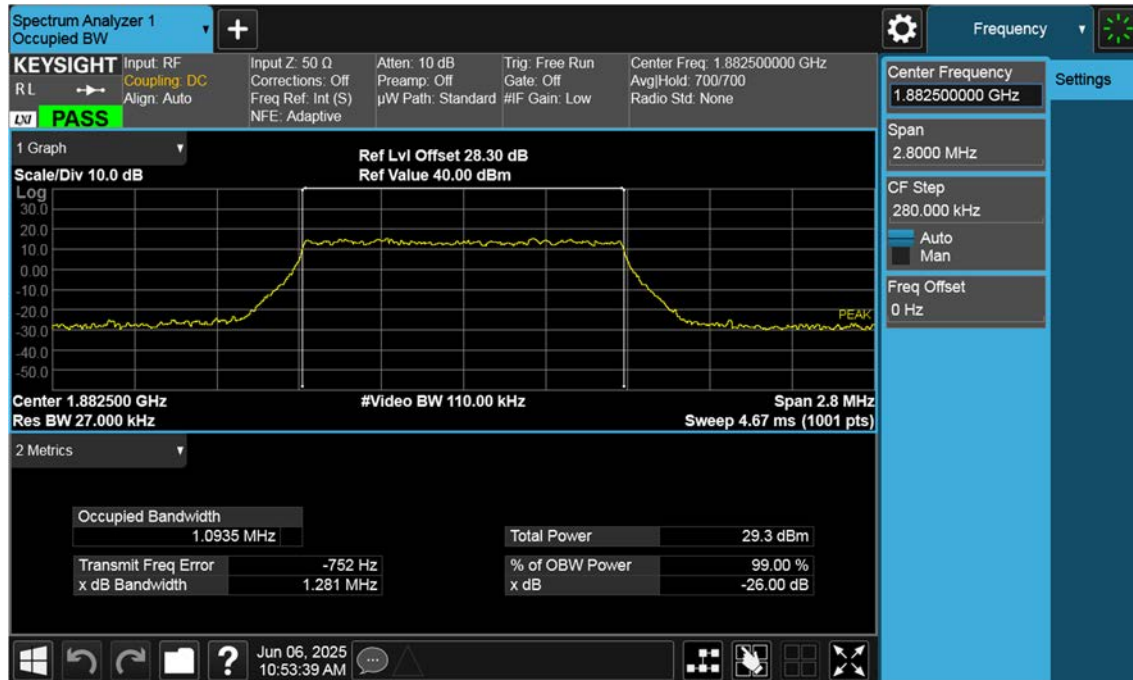
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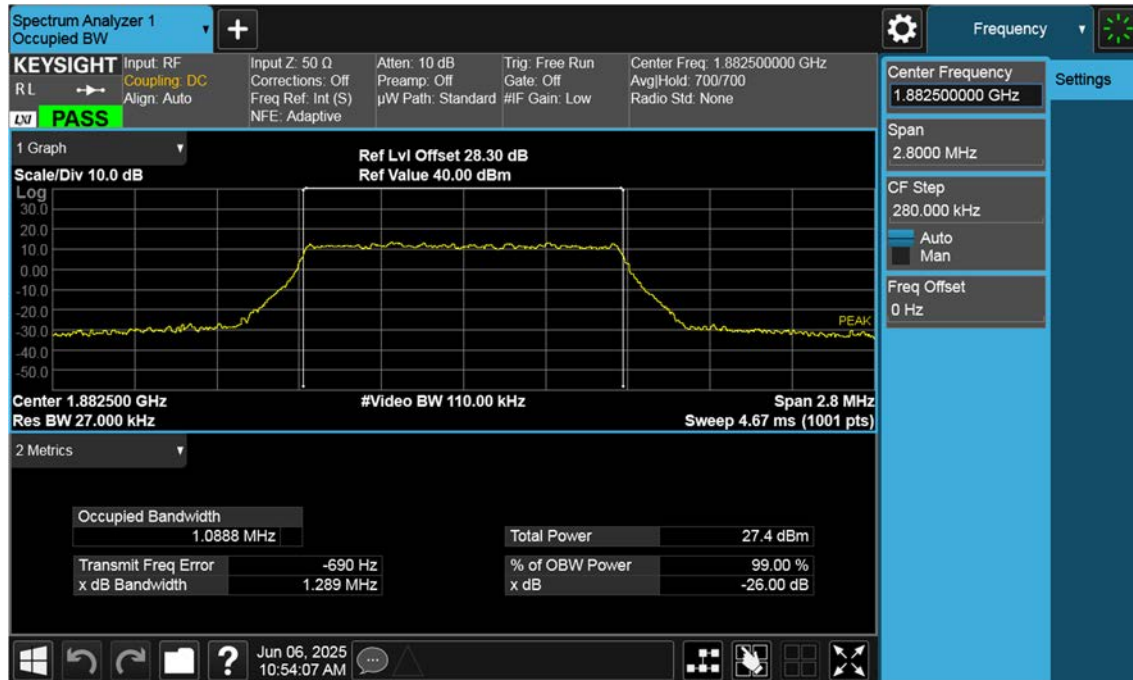
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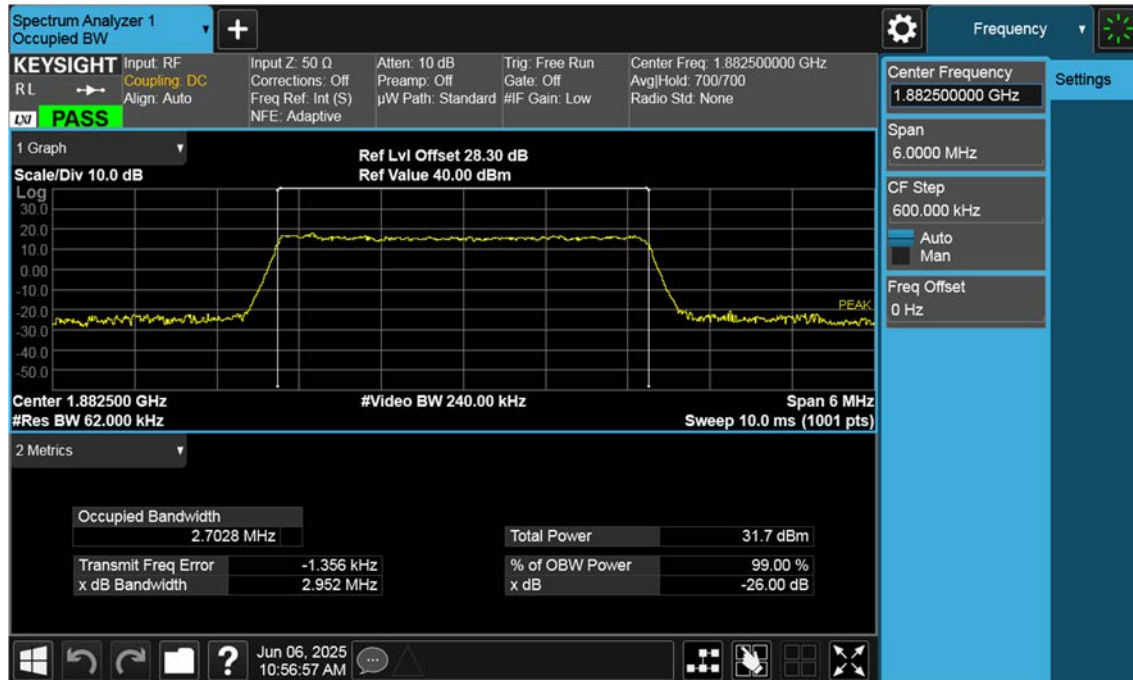
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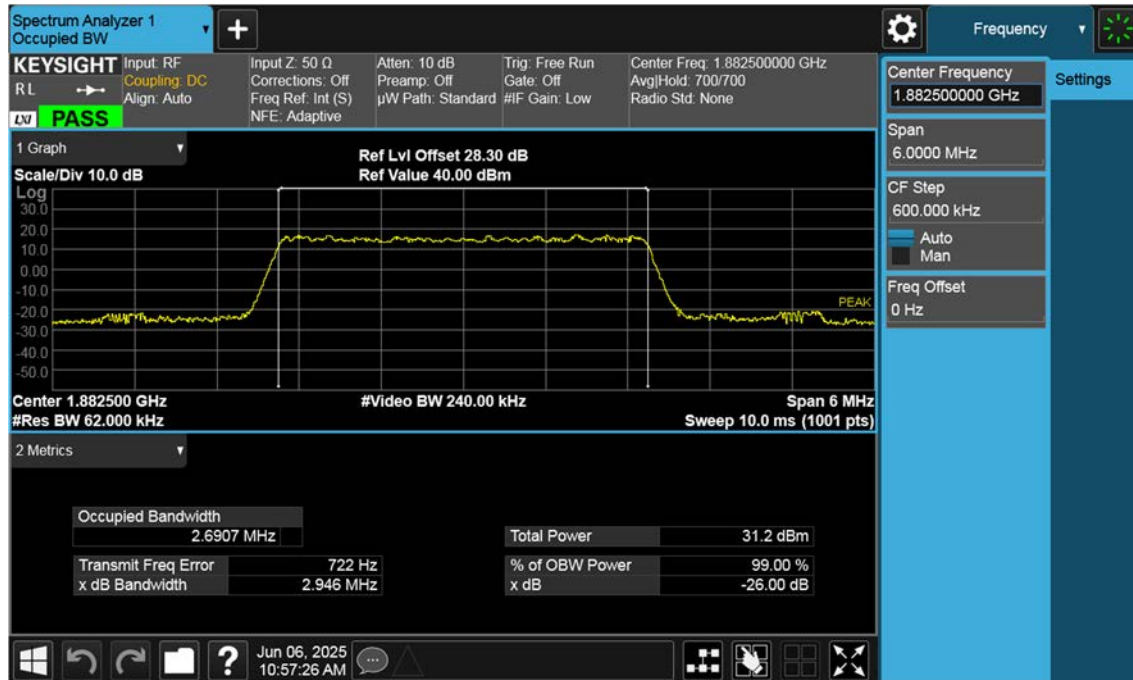
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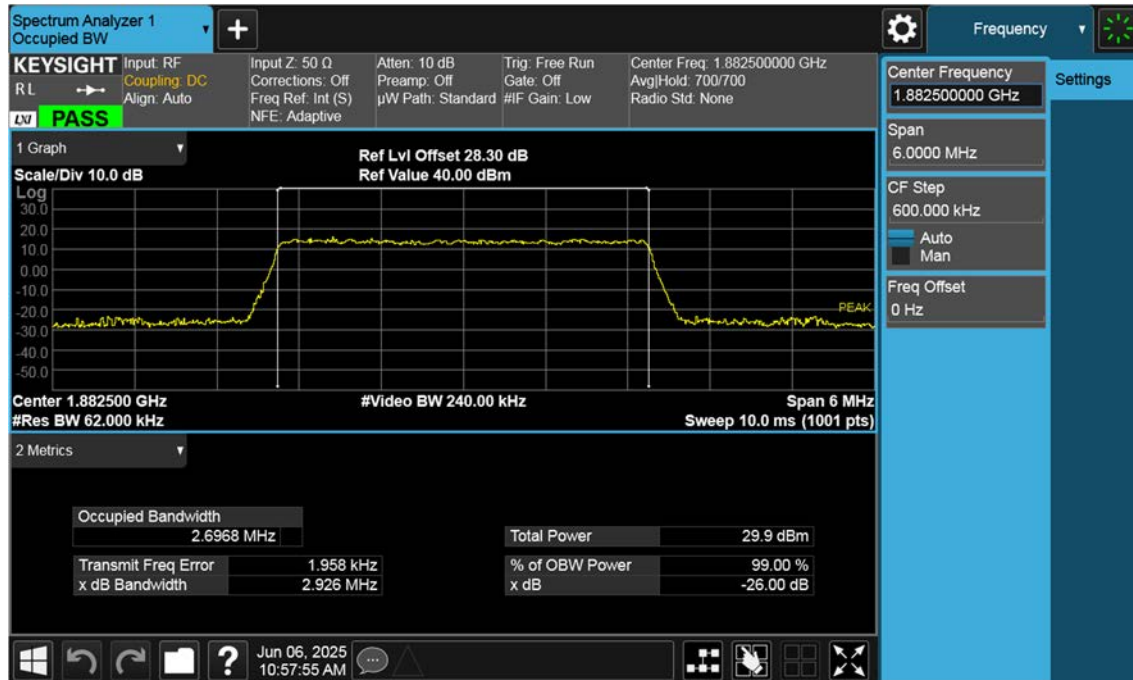
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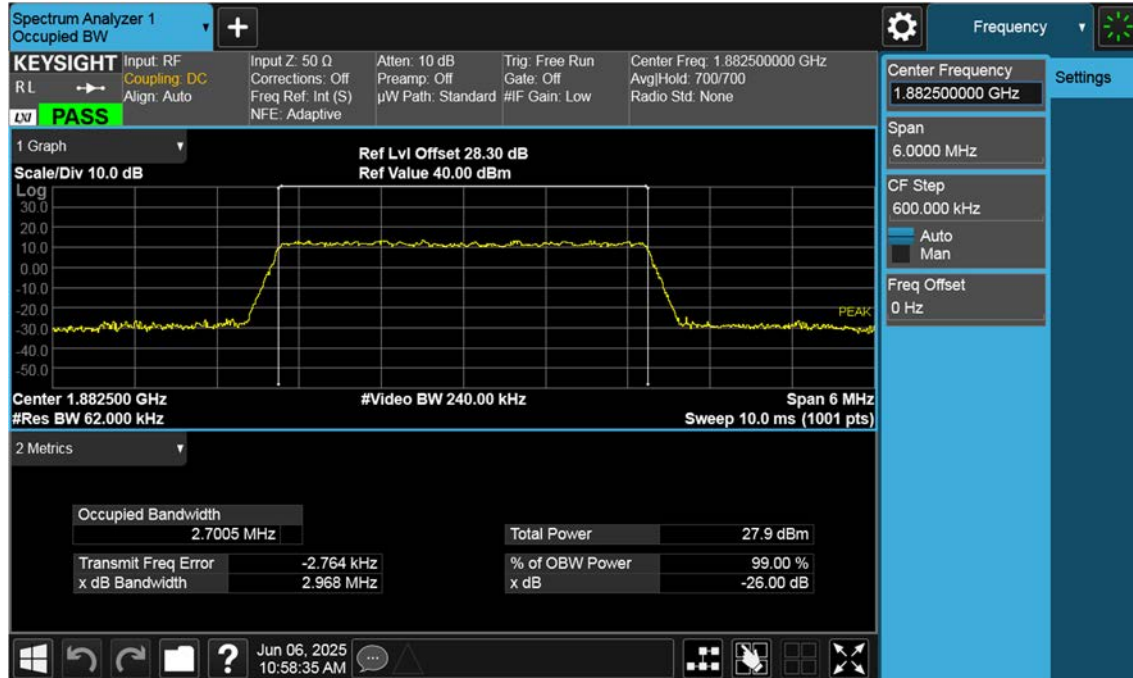
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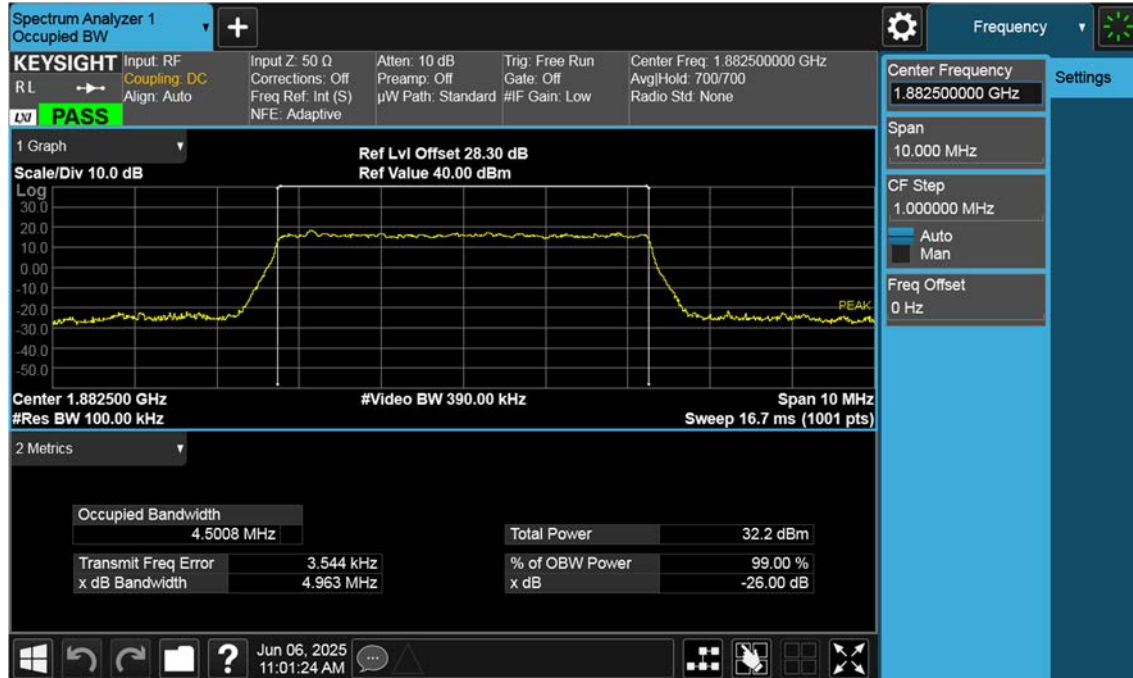
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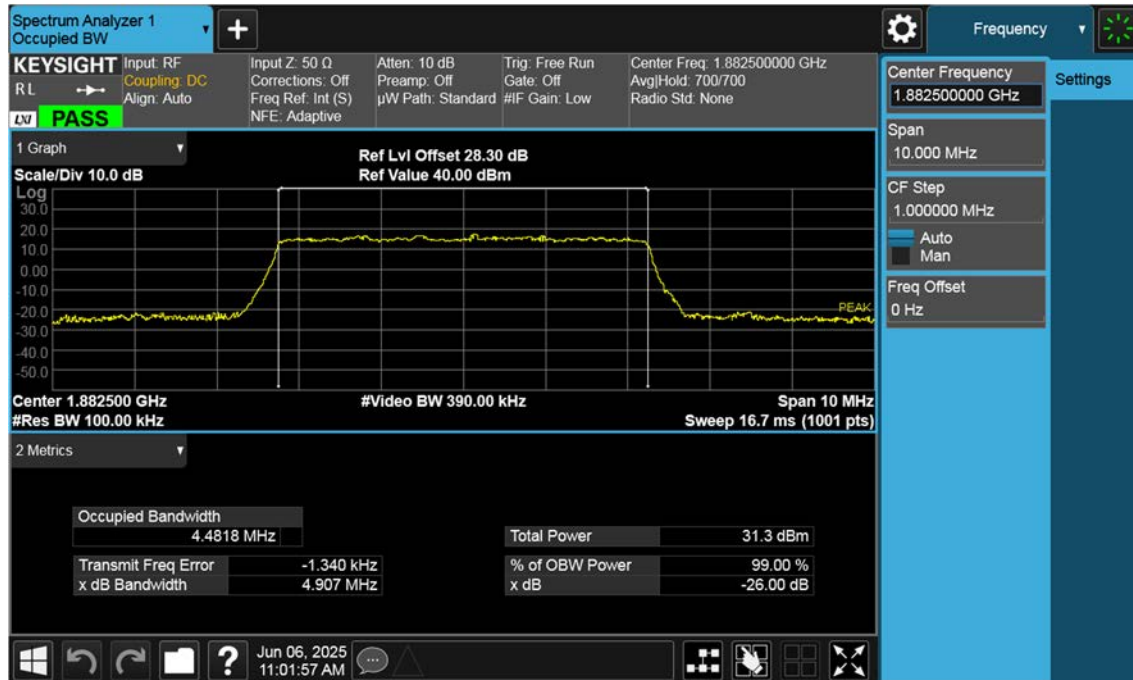
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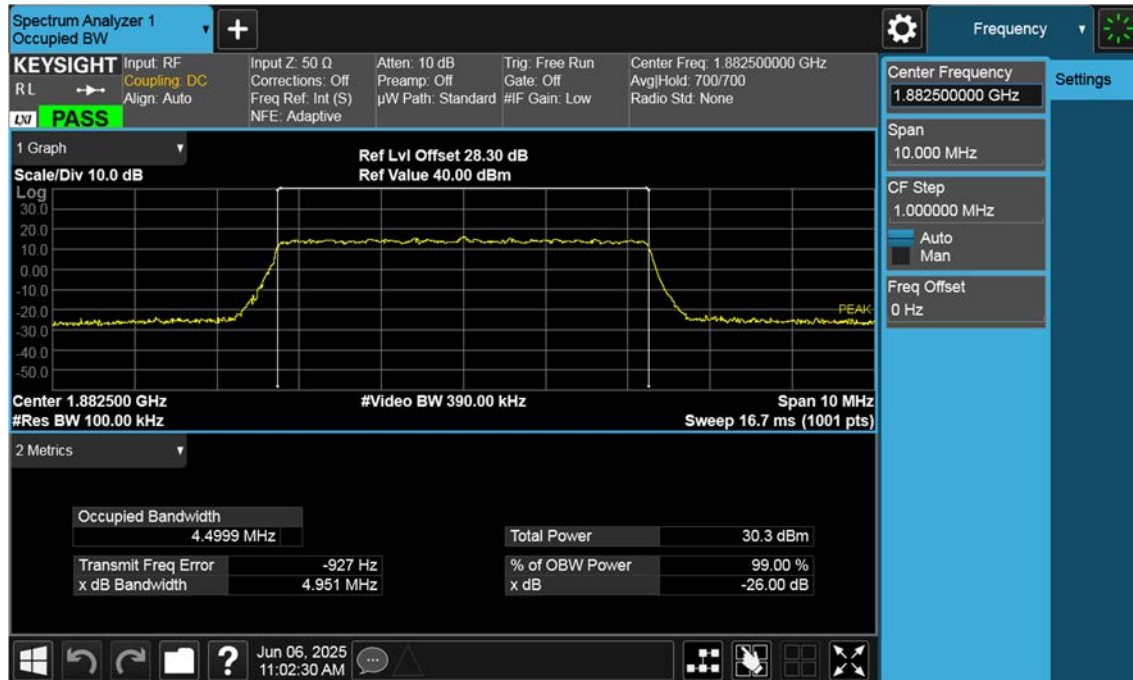
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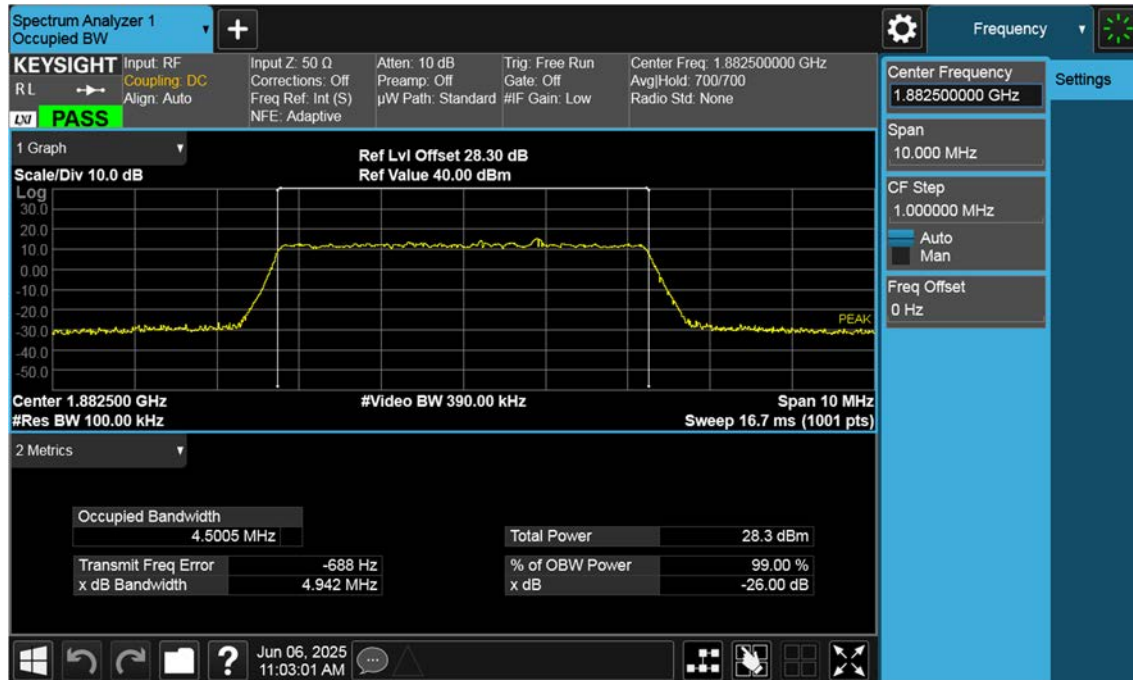
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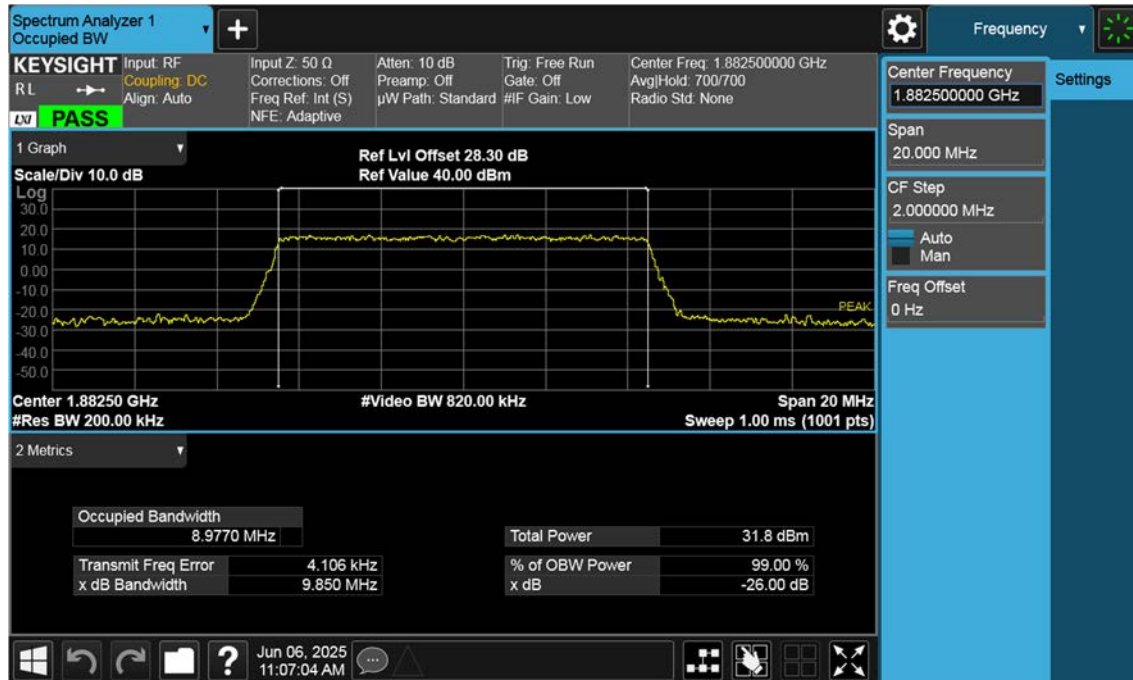
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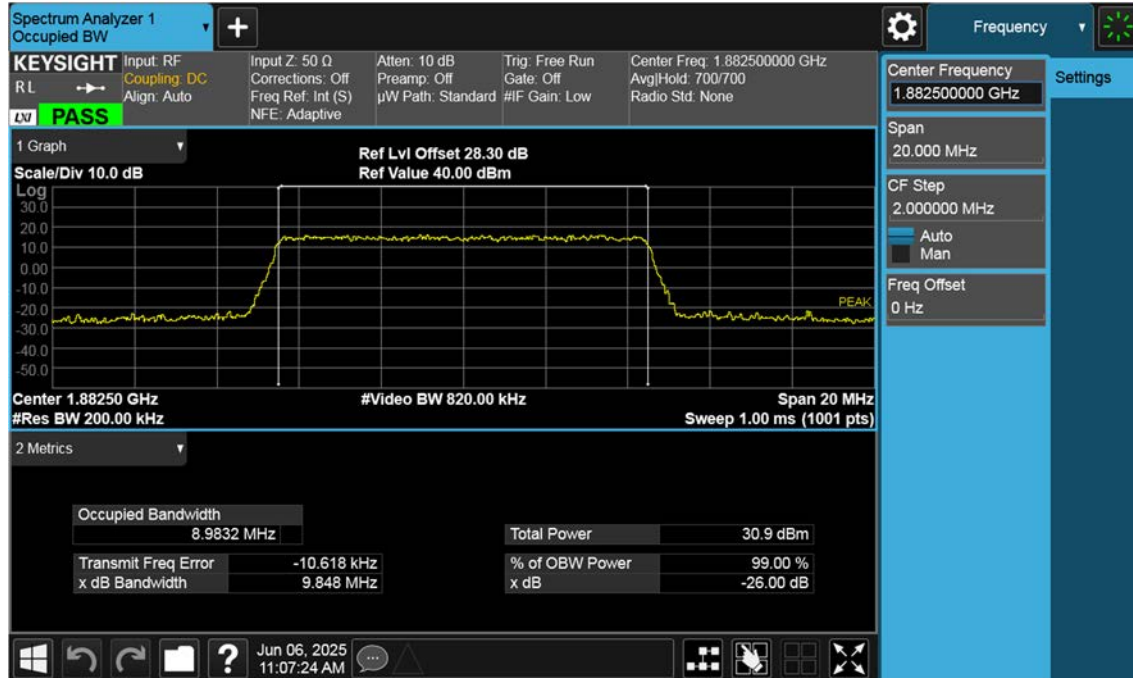
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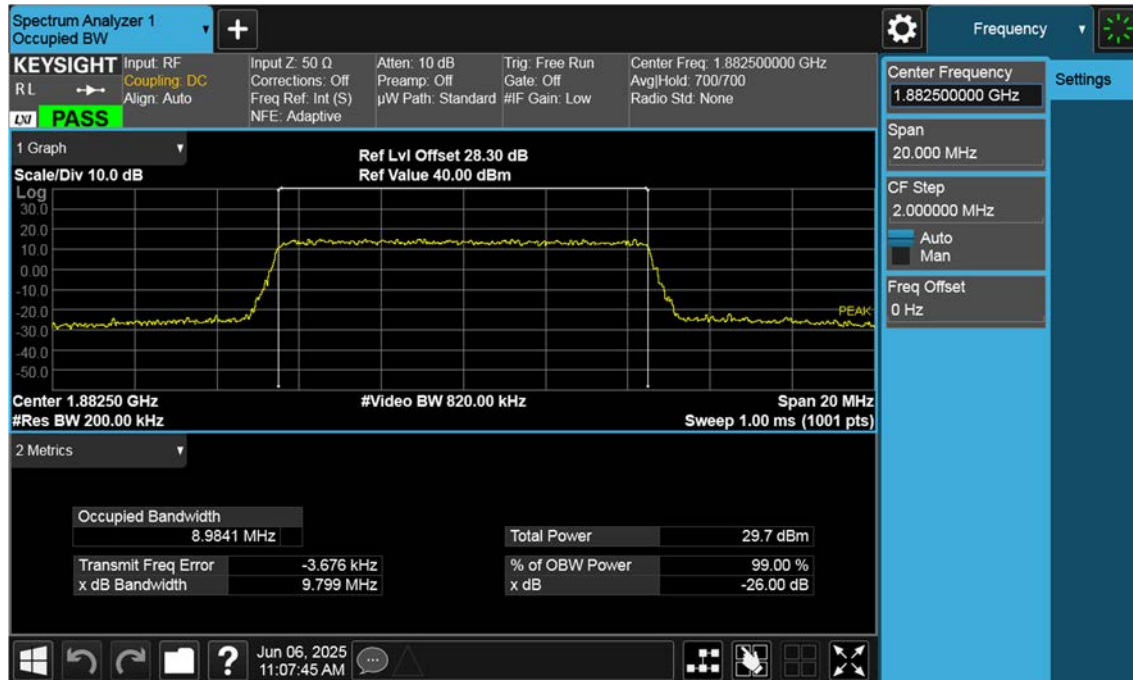
LTE B25_10 M_OBW_Mid_QPSK_FullRB



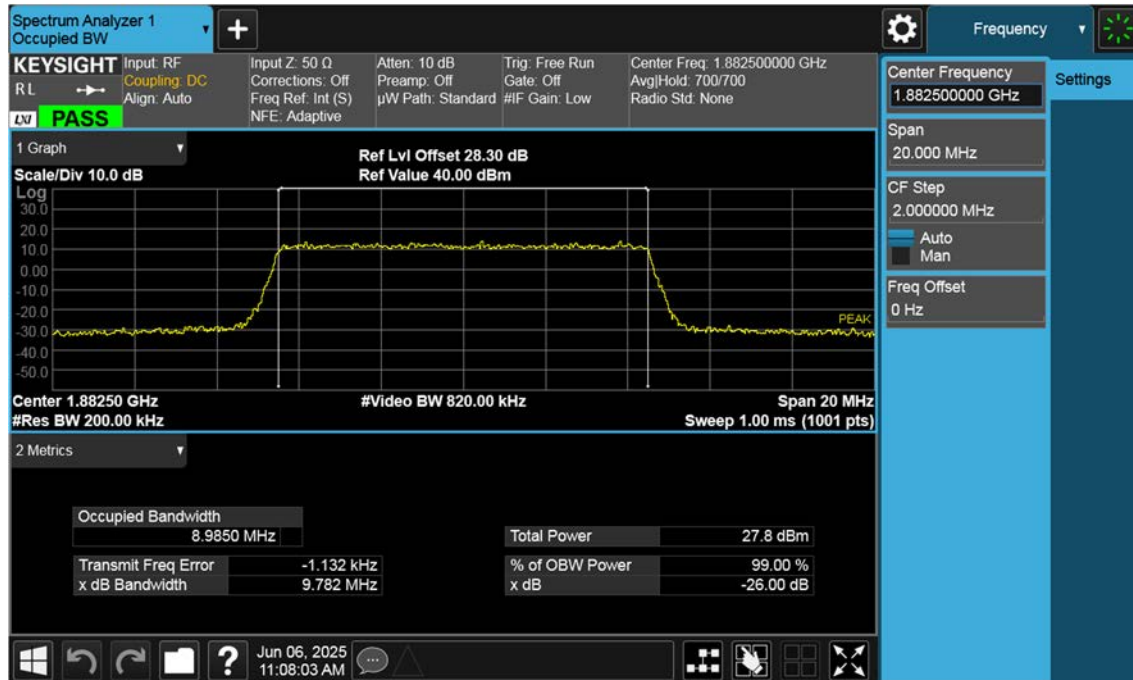
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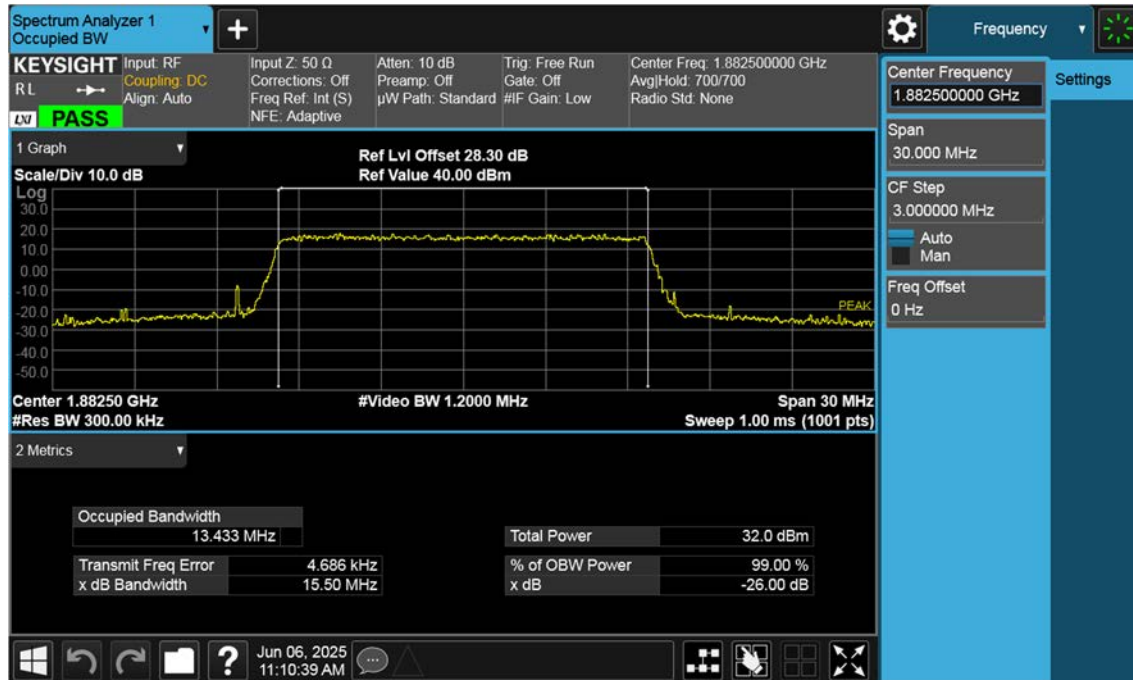
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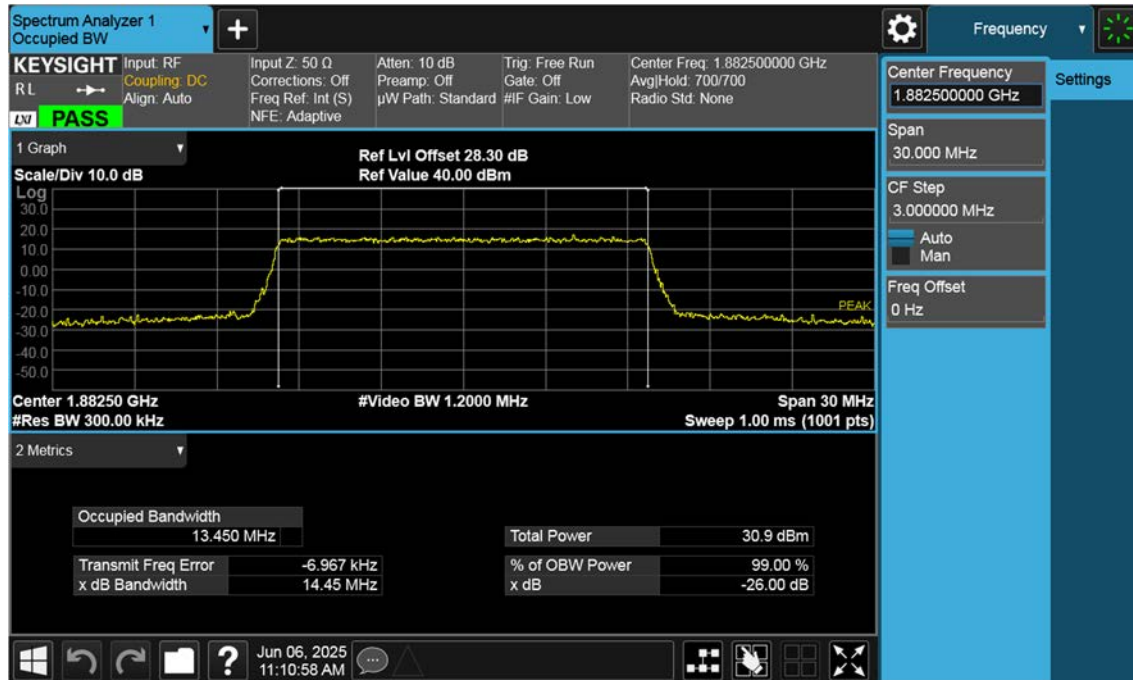
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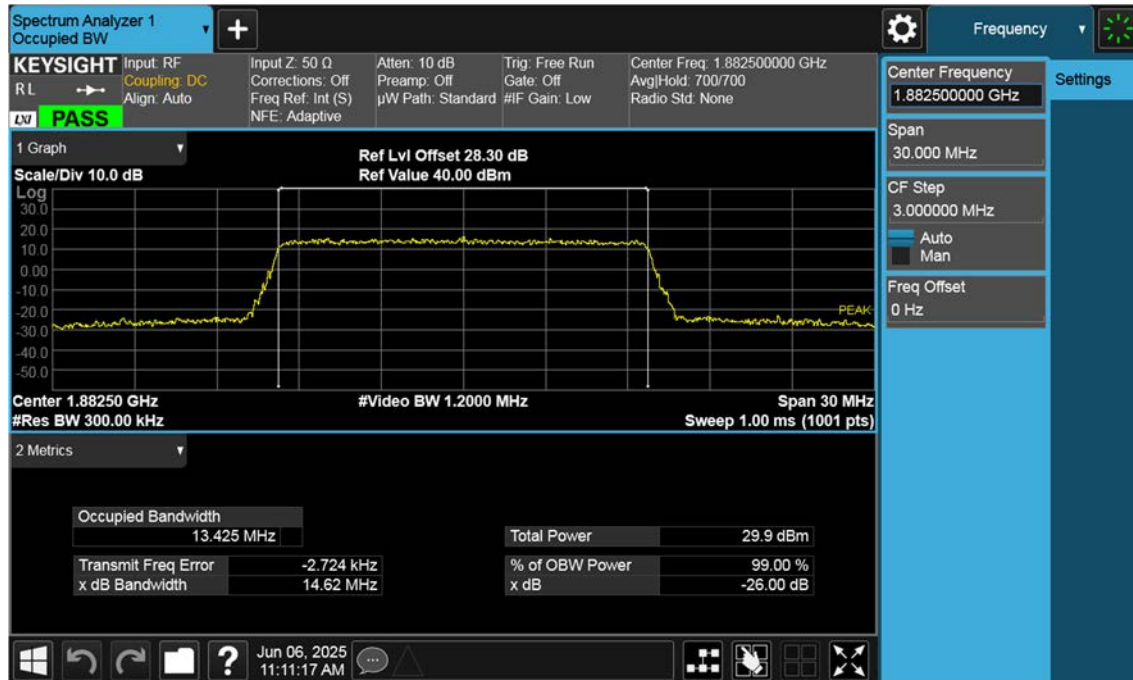
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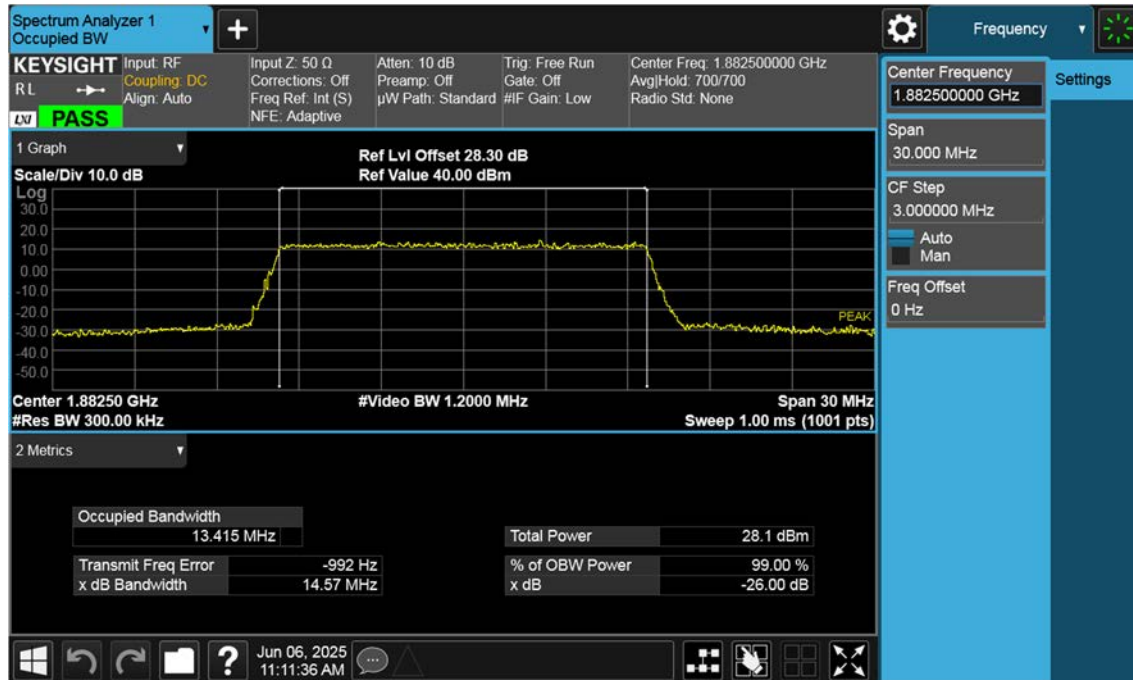
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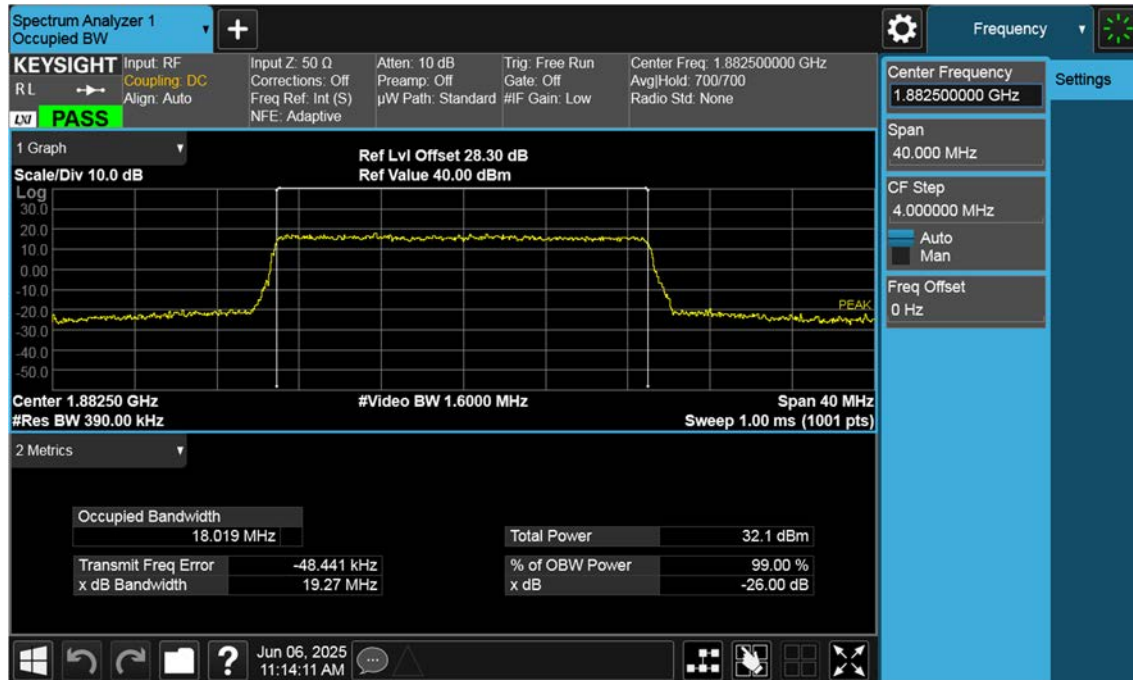
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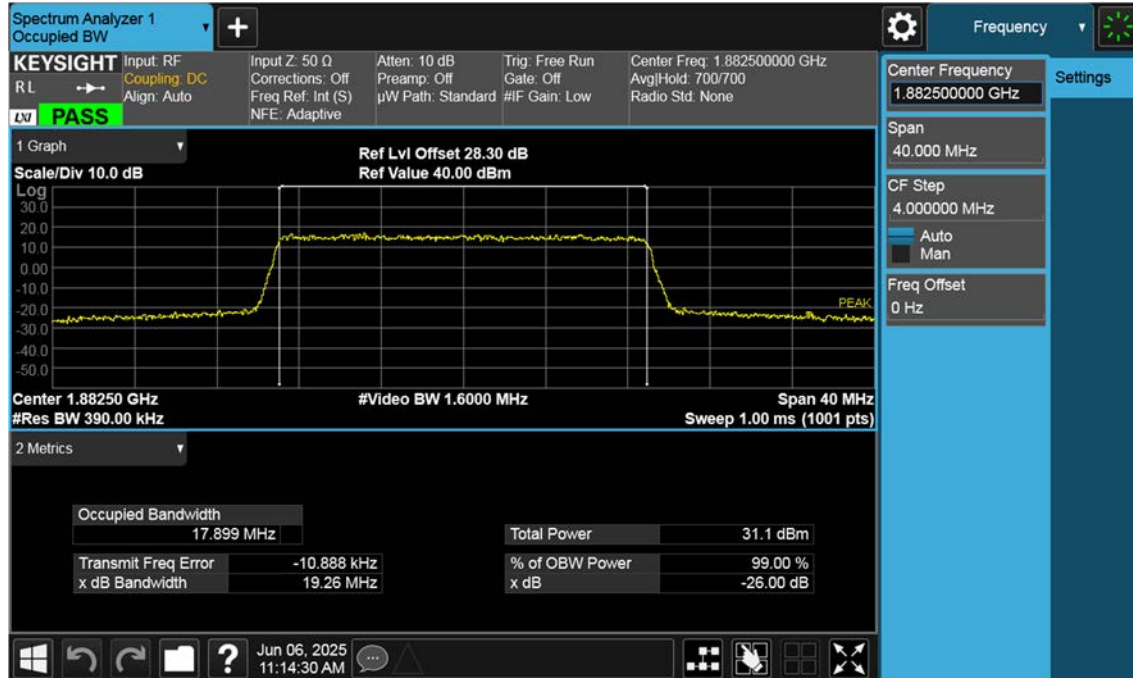
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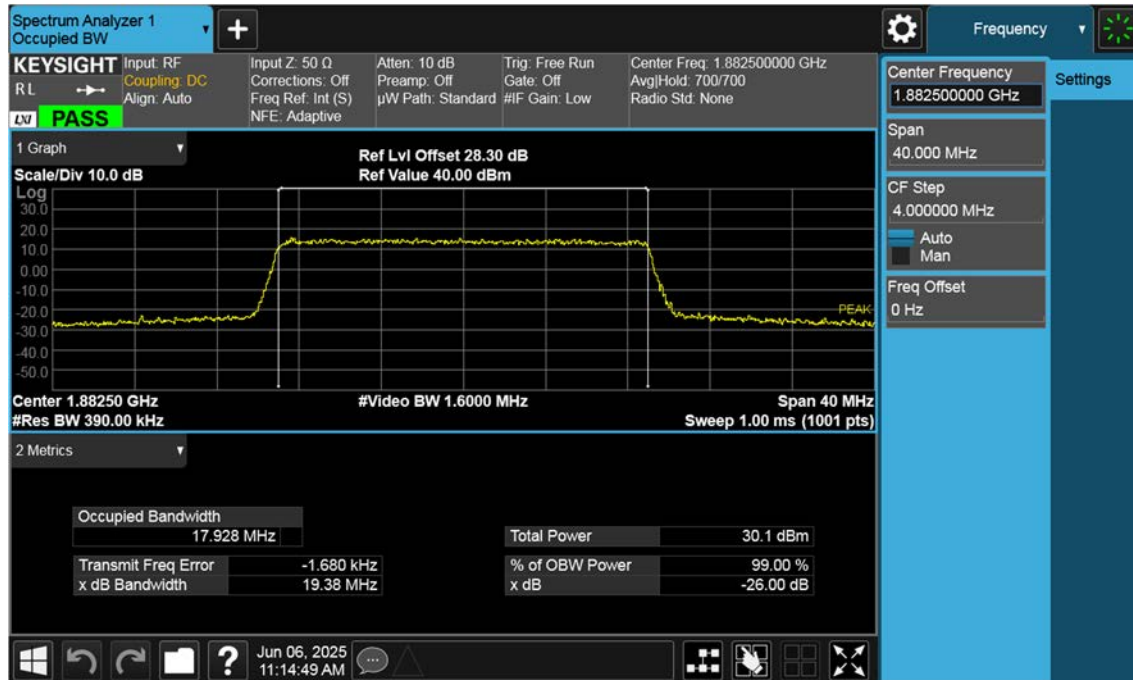
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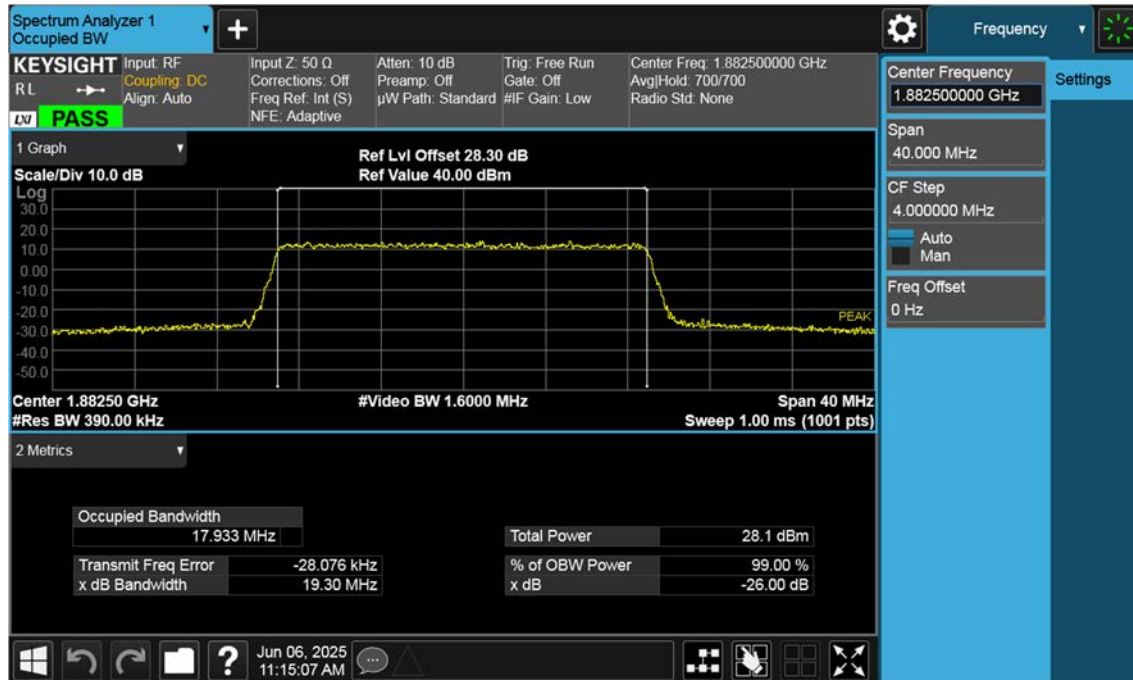
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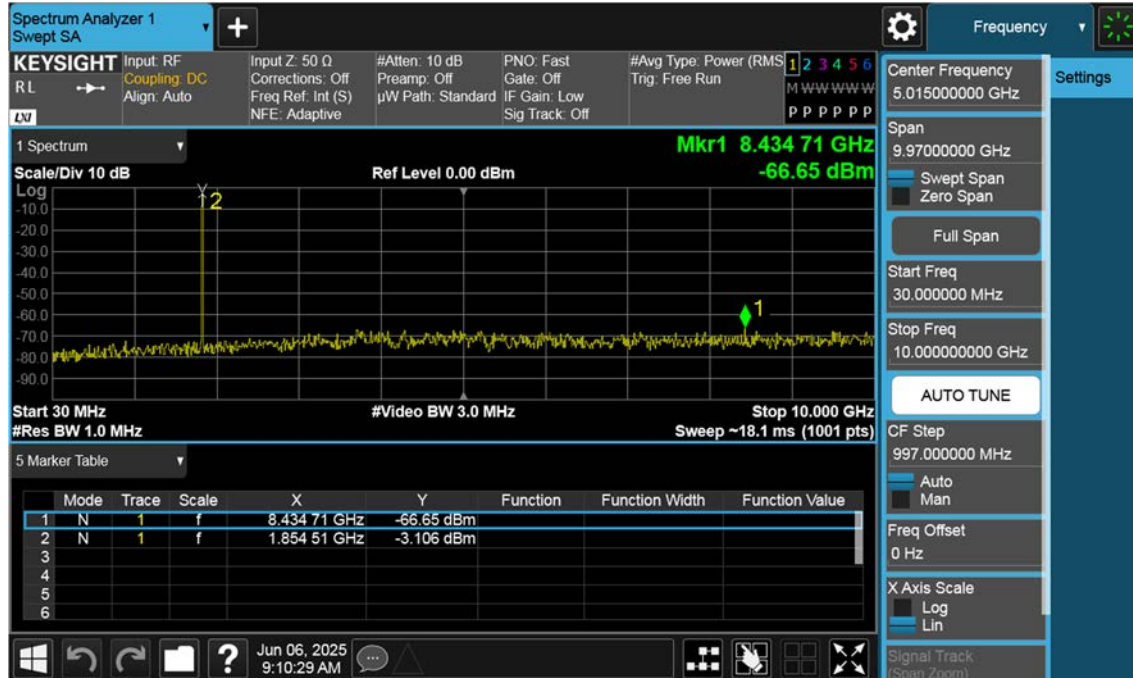
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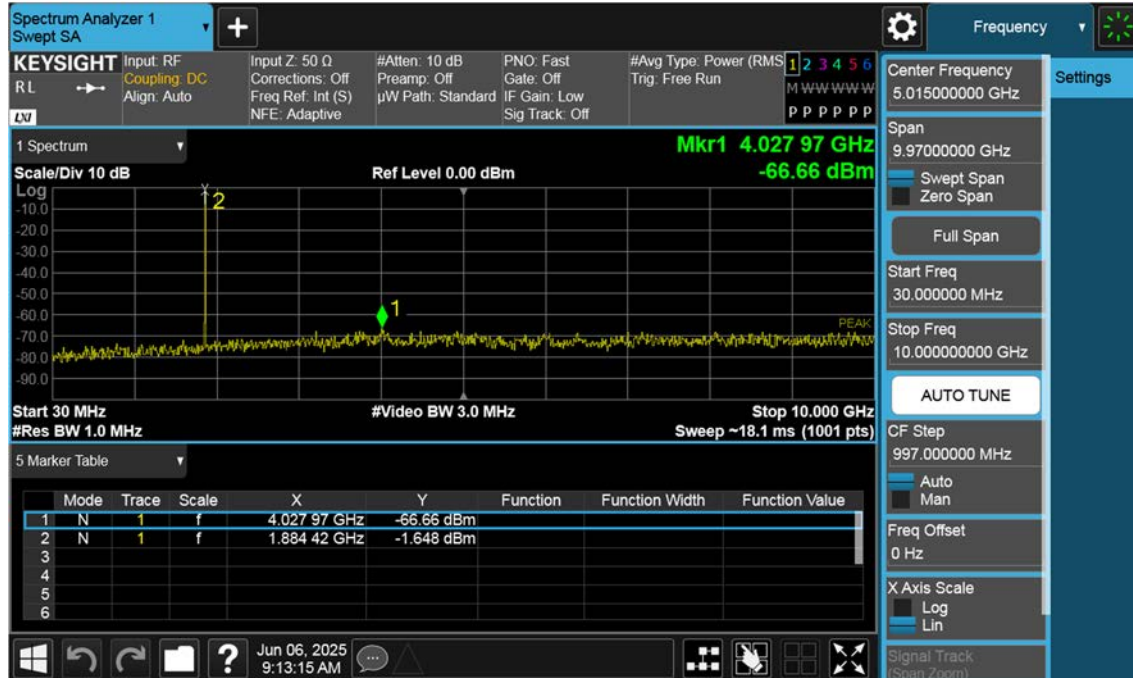
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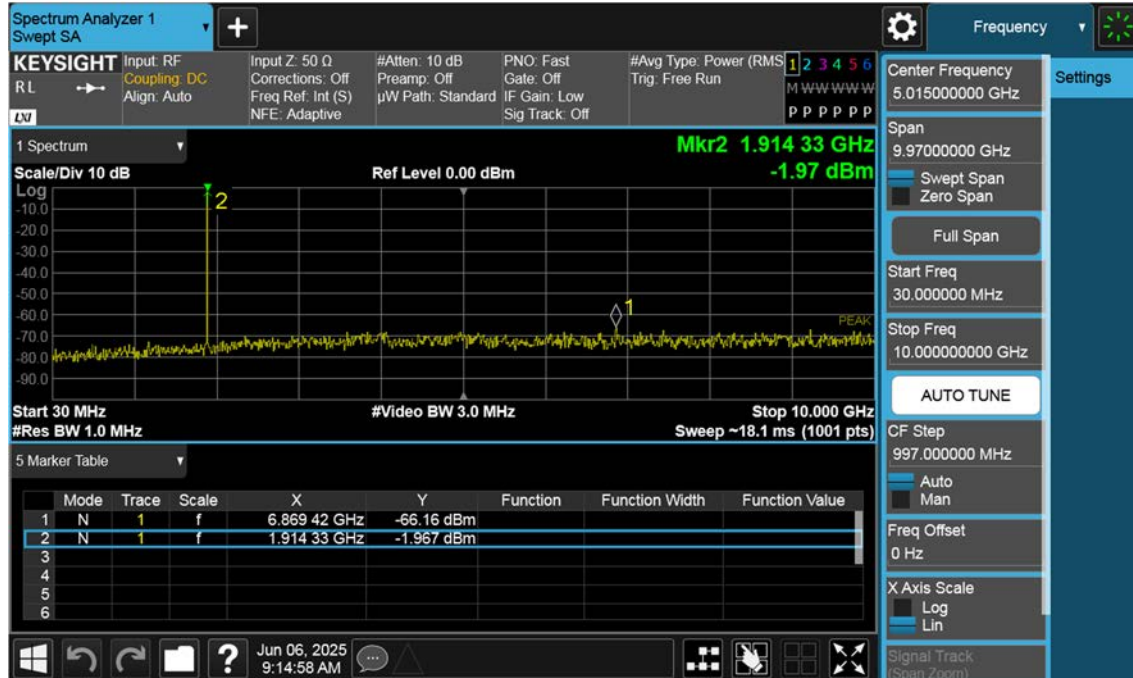
LTE B25_1.4M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



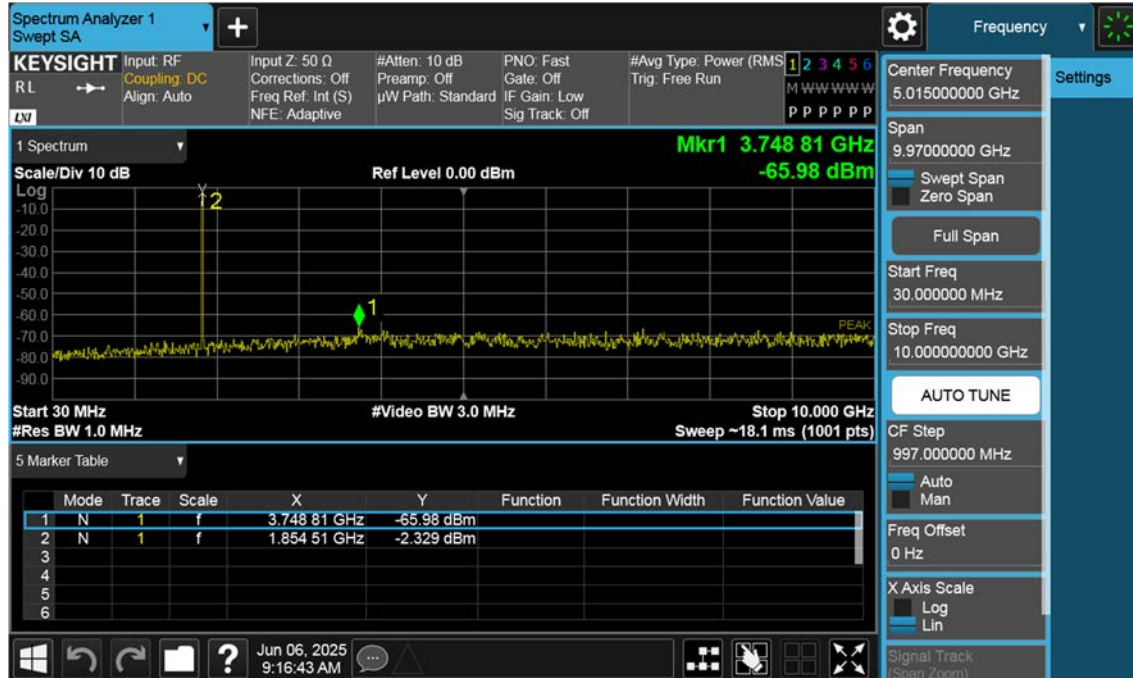
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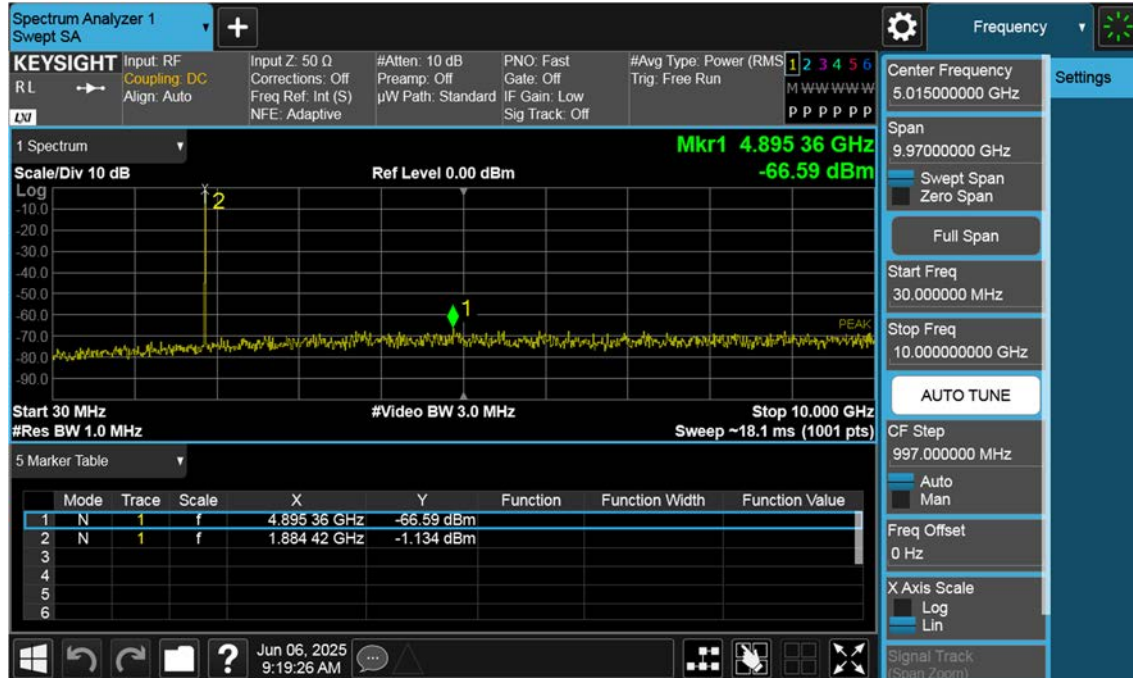
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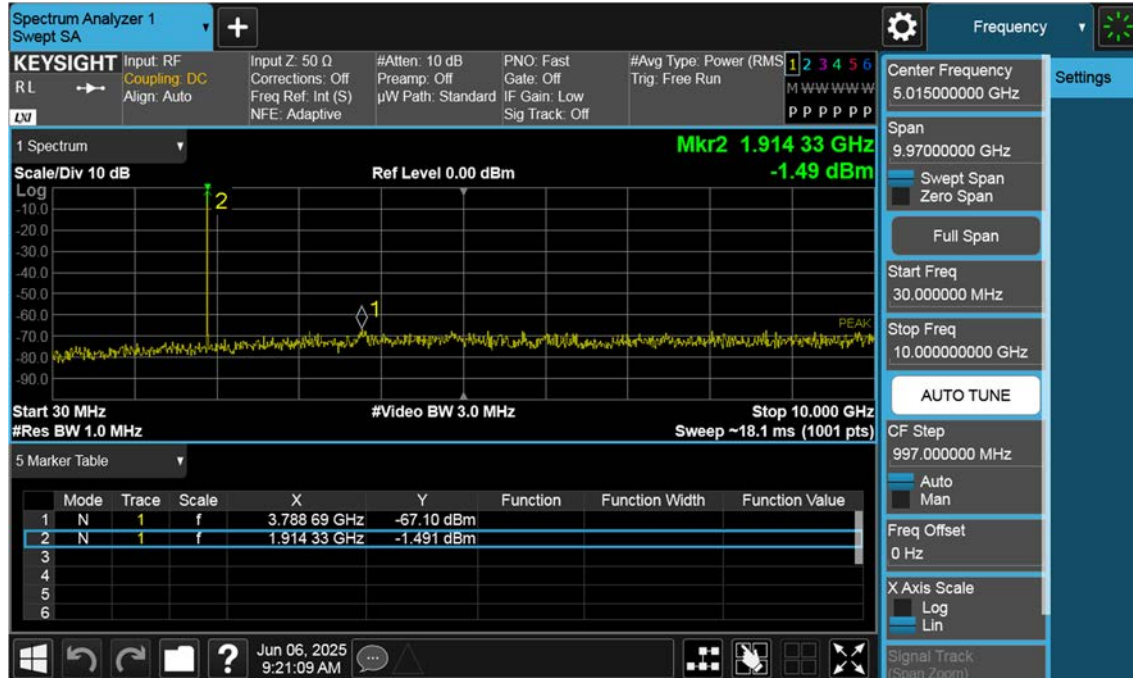
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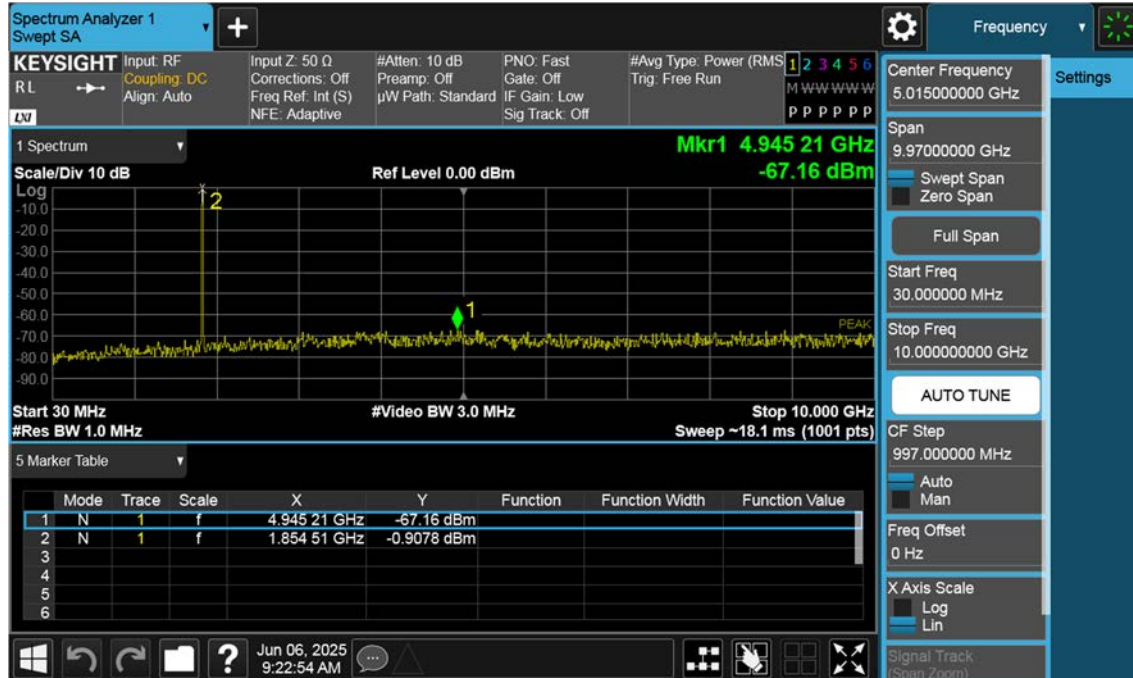
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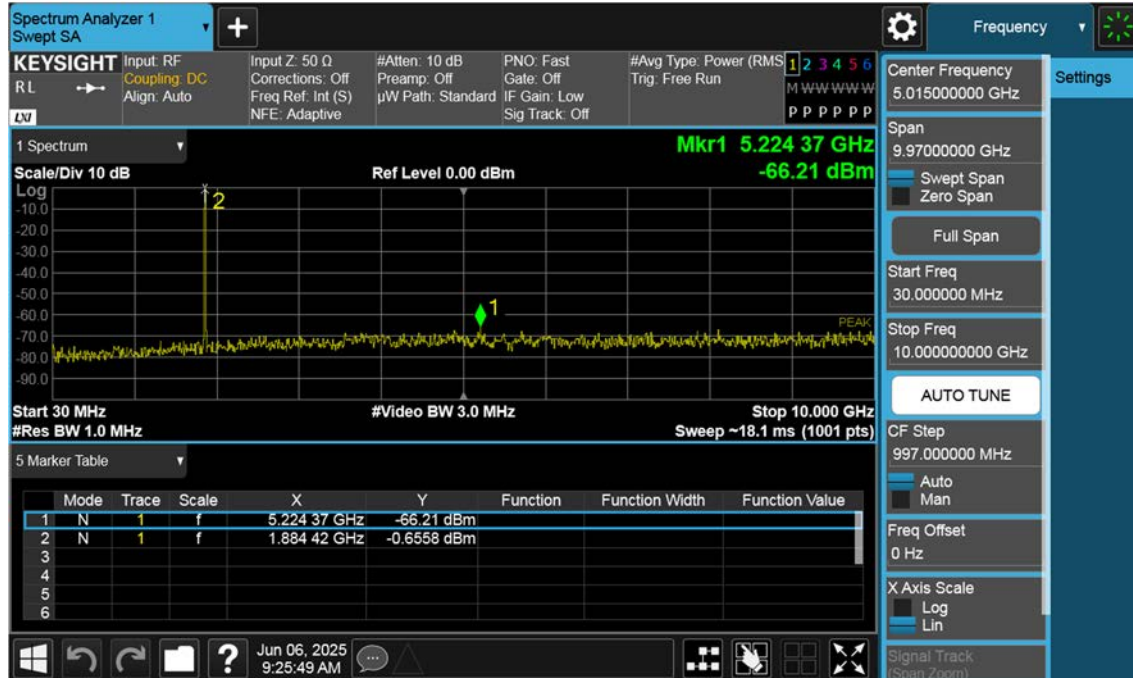
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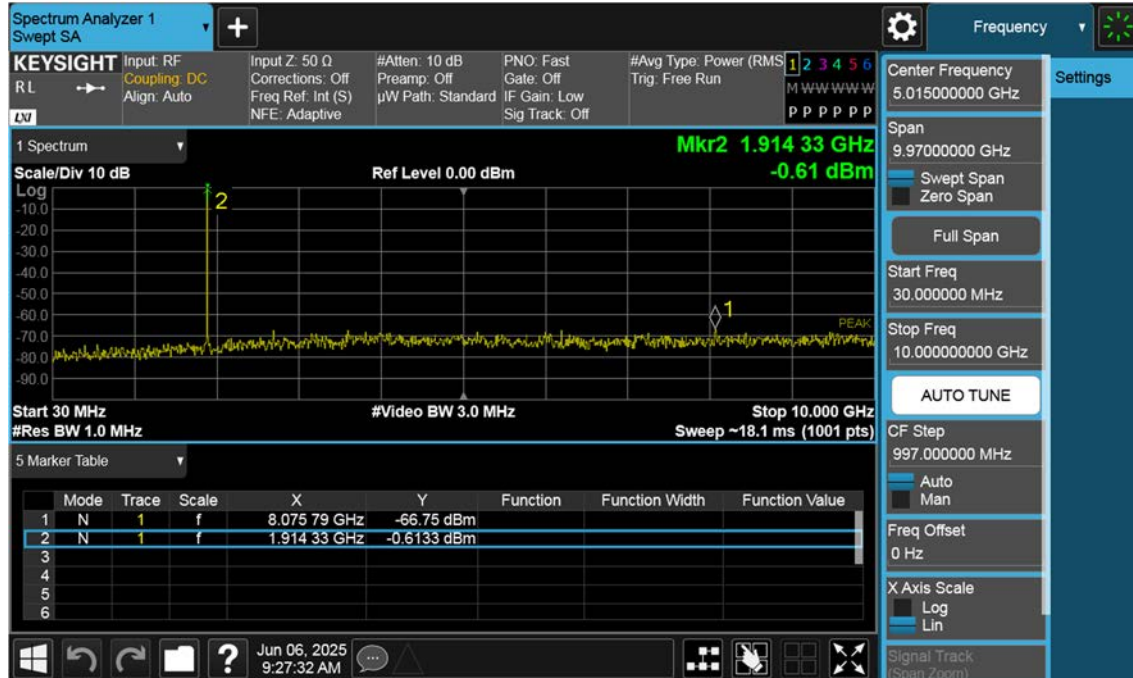
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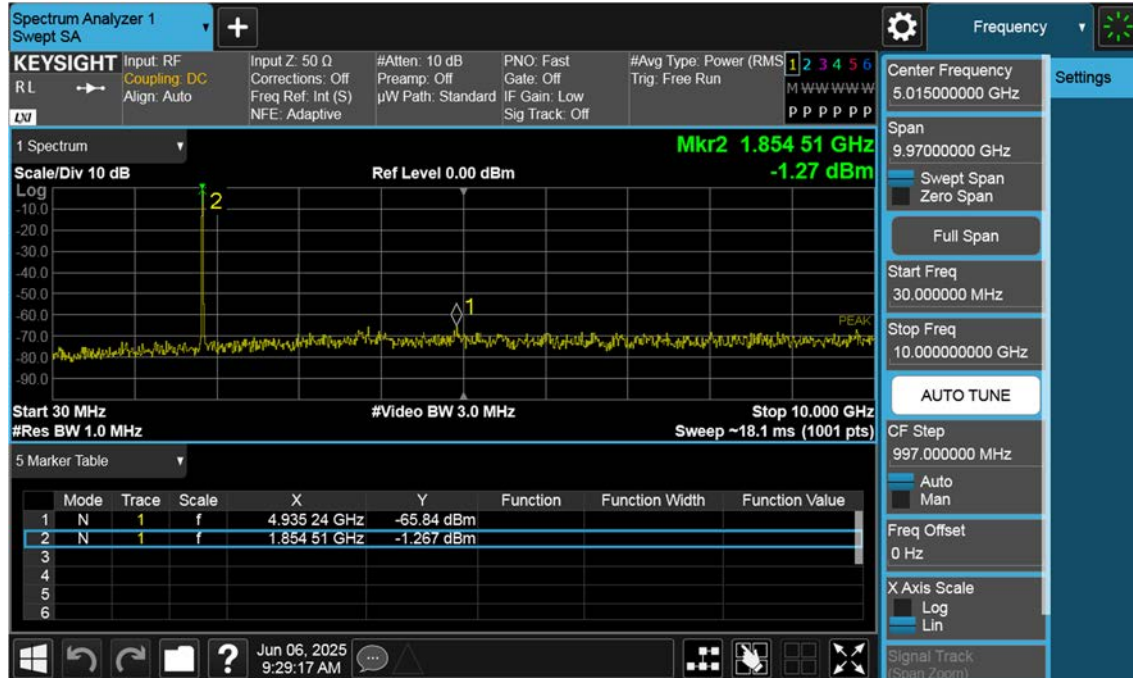
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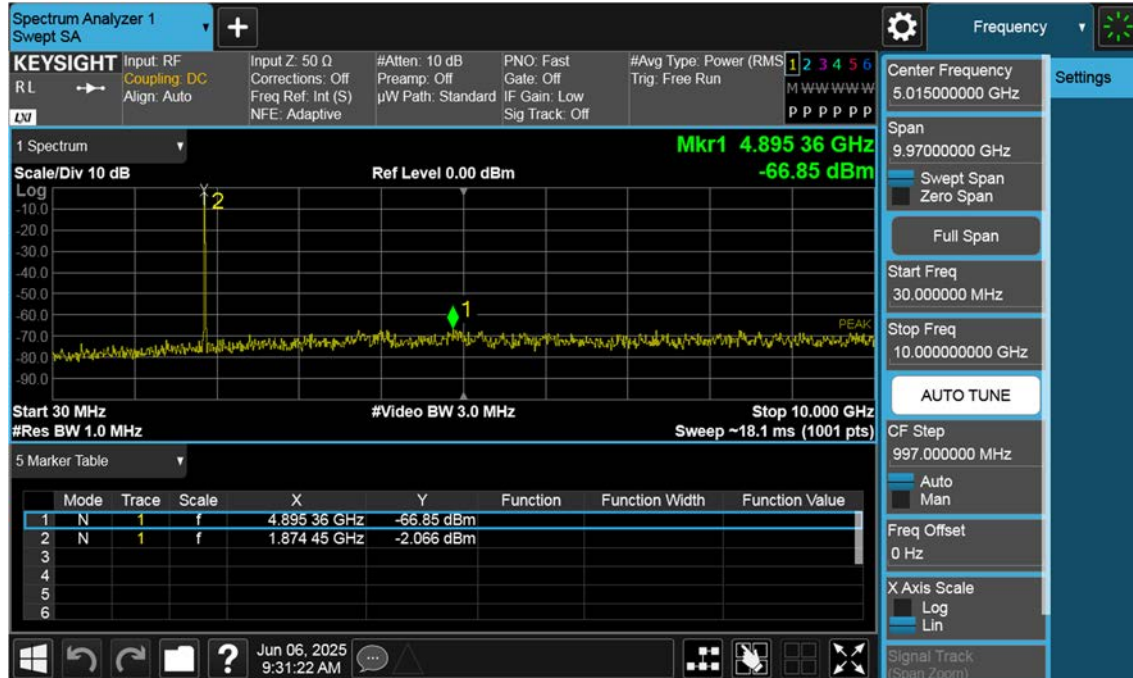
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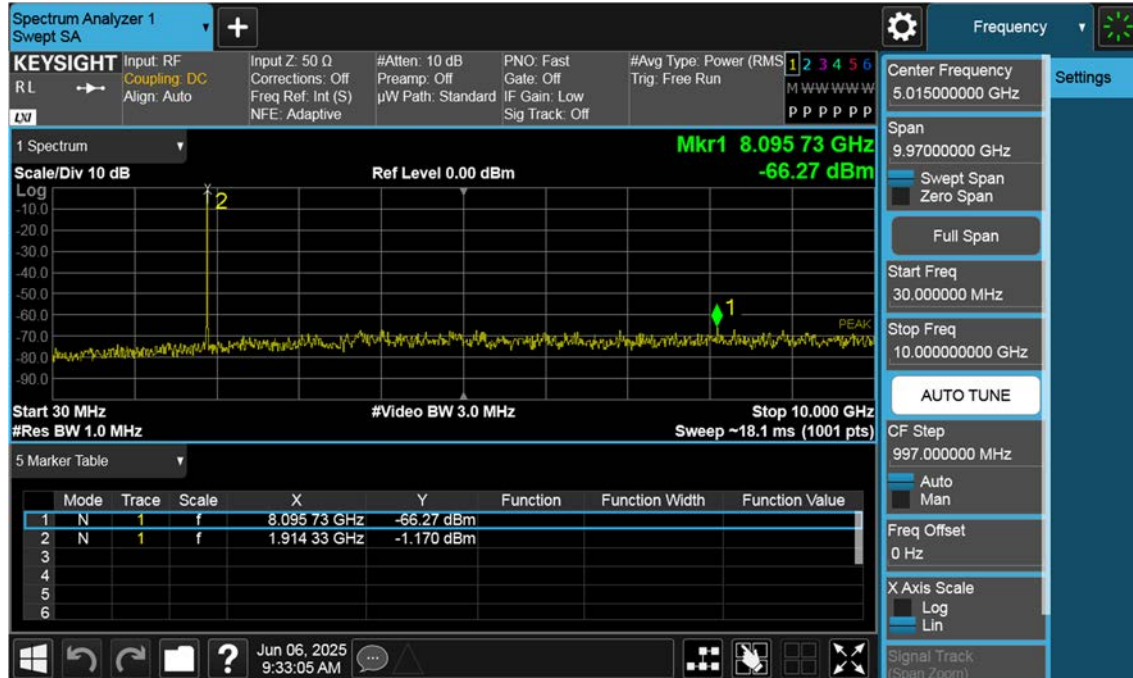
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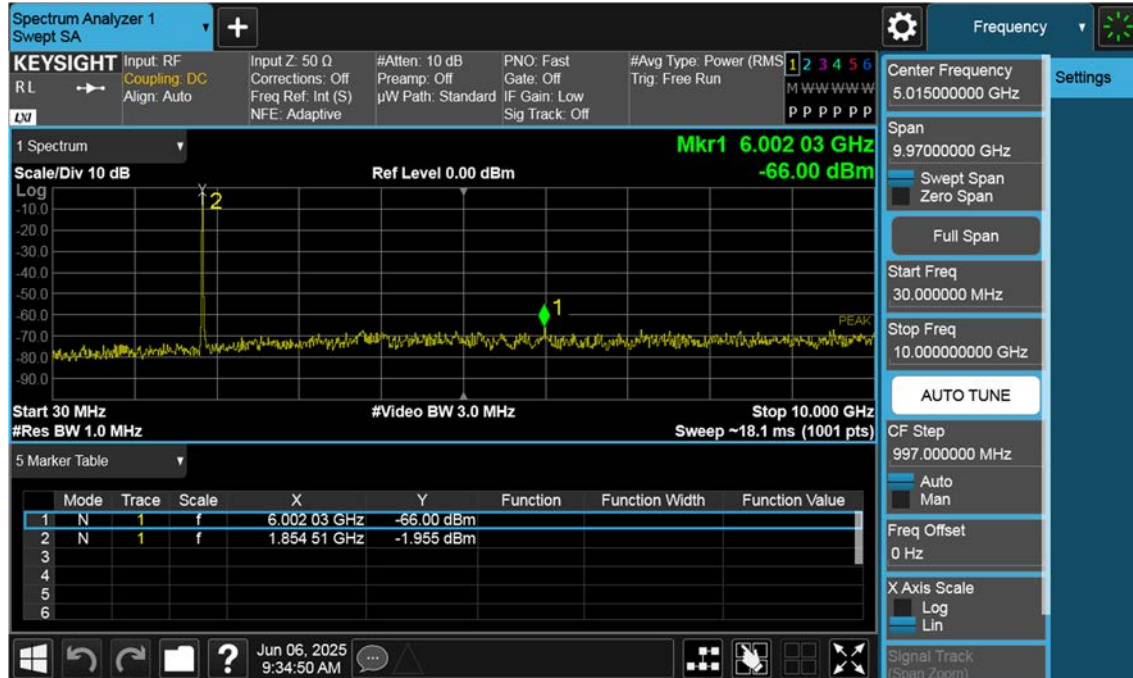
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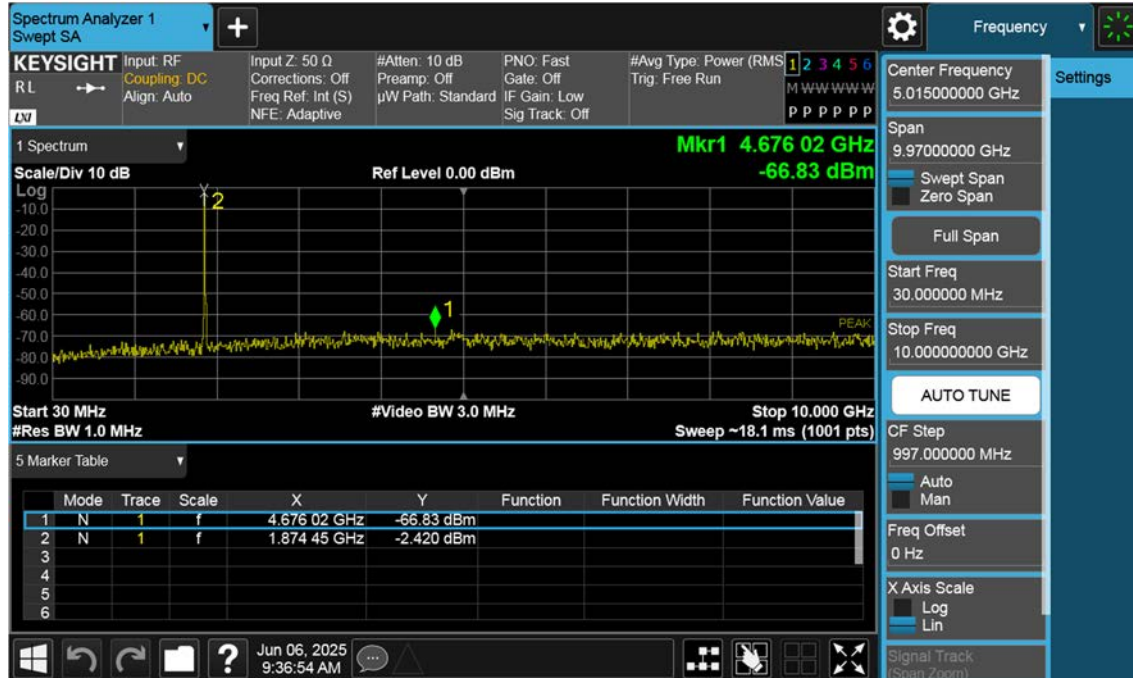
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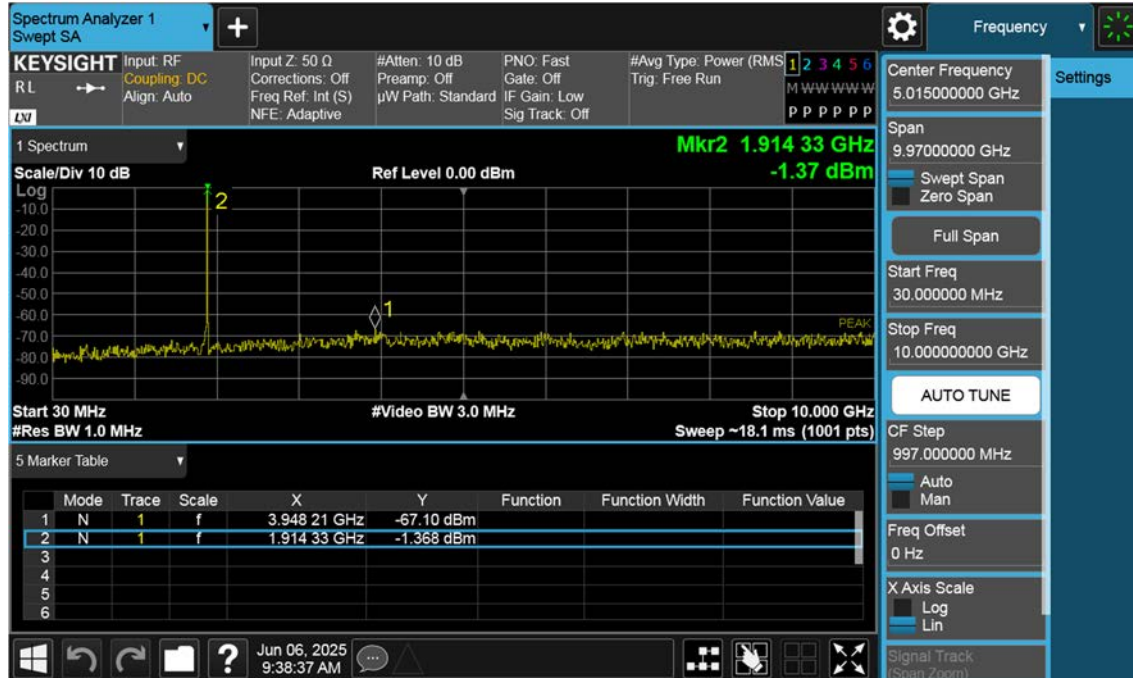
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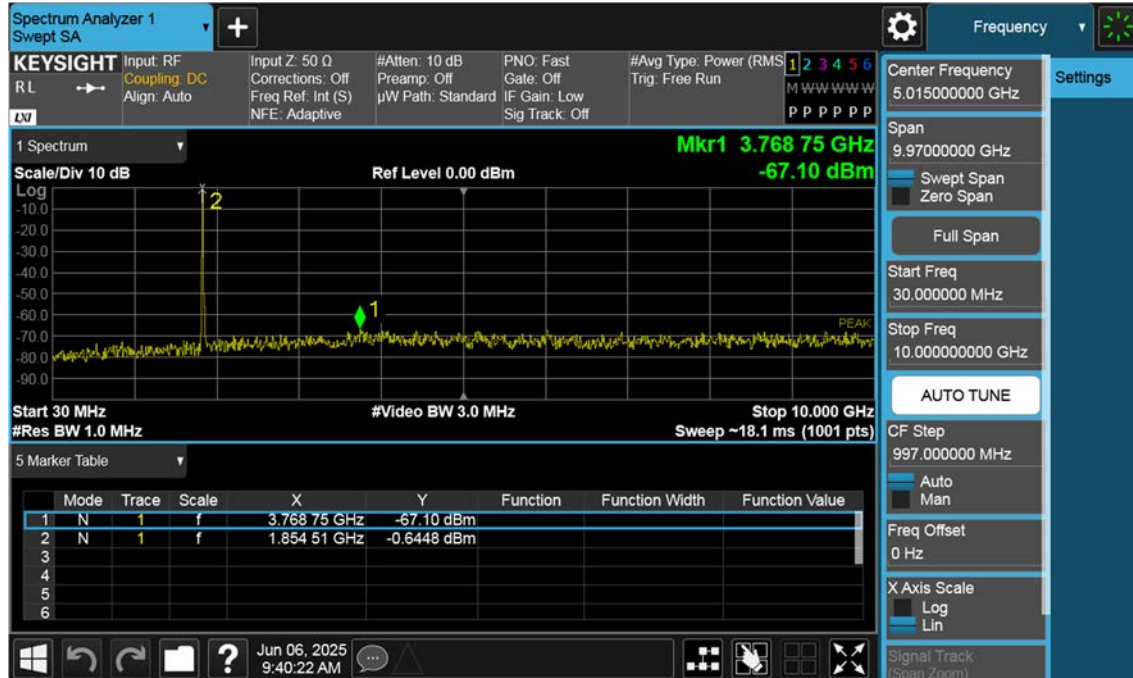
LTE B25_15 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



LTE B25_15 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



LTE B25_20 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



LTE B25_20 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB

