

FCC LTE REPORT

Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Date of Issue:
October 27, 2023

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Report No.: HCT-RF-2310-FC068-R1

FCC ID: A3LSMS926B

APPLICANT: SAMSUNG Electronics Co., Ltd.

Model(s): SM-S926B/DS
 Additional Model(s): SM-S926B
 EUT Type: Mobile phone
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 FCC Rule Part(s): §90, §22

Main 1 Ant

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band26 (1.4)	814.7 – 824.0	1M10G7D	QPSK	0.248	23.94
		1M09W7D	16QAM	0.207	23.16
		1M09W7D	64QAM	0.167	22.24
		1M10W7D	256QAM	0.085	19.31
LTE – Band26 (3)	815.5 – 824.0	2M71G7D	QPSK	0.256	24.08
		2M70W7D	16QAM	0.210	23.22
		2M71W7D	64QAM	0.166	22.19
		2M71W7D	256QAM	0.085	19.29
LTE – Band26 (5)	816.5 – 824.0	4M54G7D	QPSK	0.256	24.08
		4M52W7D	16QAM	0.218	23.38
		4M54W7D	64QAM	0.167	22.24
		4M53W7D	256QAM	0.085	19.29
LTE – Band26 (10)	819.0 – 824.0	9M02G7D	QPSK	0.262	24.19
		9M01W7D	16QAM	0.209	23.20
		9M02W7D	64QAM	0.172	22.35
		8M99W7D	256QAM	0.087	19.38
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.258	24.12
		13M5W7D	16QAM	0.208	23.18
		13M5W7D	64QAM	0.170	22.31
		13M5W7D	256QAM	0.087	19.42

Sub 1 Ant

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted Output Power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band26 (1.4)	814.7 – 824.0	1M09G7D	QPSK	0.234	23.70
		1M10W7D	16QAM	0.174	22.41
		1M10W7D	64QAM	0.135	21.31
		1M10W7D	256QAM	0.077	18.85
LTE – Band26 (3)	815.5 – 824.0	2M71G7D	QPSK	0.238	23.76
		2M71W7D	16QAM	0.177	22.48
		2M71W7D	64QAM	0.140	21.47
		2M71W7D	256QAM	0.079	18.96
LTE – Band26 (5)	816.5 – 824.0	4M53G7D	QPSK	0.239	23.78
		4M51W7D	16QAM	0.175	22.43
		4M52W7D	64QAM	0.139	21.44
		4M52W7D	256QAM	0.079	18.97
LTE – Band26 (10)	819.0 – 824.0	9M02G7D	QPSK	0.244	23.88
		9M03W7D	16QAM	0.177	22.48
		9M01W7D	64QAM	0.138	21.39
		8M99W7D	256QAM	0.080	19.02
LTE – Band26 (15)	821.5	13M5G7D	QPSK	0.243	23.85
		13M5W7D	16QAM	0.176	22.45
		13M5W7D	64QAM	0.137	21.38
		13M5W7D	256QAM	0.079	19.00

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)

Report No.: HCT-RF-2310-FC068-R1

REVIEWED BY



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Report approved by : Jong Seok Lee
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The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

Test Report Statement:

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.

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

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2310-FC068	October 17, 2023	- First Approval Report
HCT-RF-2310-FC068-R1	October 27, 2023	- Revised the ERP&RSE result.(re-test)

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMS926B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§90, §22
EUT Type:	Mobile phone
Model(s):	SM-S926B/DS
Additional Model(s):	SM-S926B
Tx Frequency:	814.7 MHz – 824.0 MHz (LTE – Band 26 (1.4 MHz)) 815.5 MHz – 824.0 MHz (LTE – Band 26 (3 MHz)) 816.5 MHz – 824.0 MHz (LTE – Band 26 (5 MHz)) 819.0 MHz – 824.0 MHz (LTE – Band 26 (10 MHz)) 821.5 MHz (LTE – Band 26 (15 MHz))
Date(s) of Tests:	August 30, 2023 ~ October 27, 2023
Serial number:	Radiated: R3CW70NE0XA Conducted: R3CW70NDT7T

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub6.

It also supports IEEE 802.11 a/b/g/n/ac/ax (20/40/80/160 MHz), WIFI 6E, Bluetooth, BT LE, NFC, UWB, WPT.

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
Channel 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
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

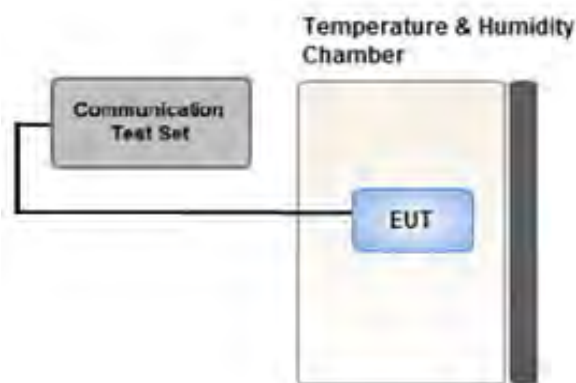
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base 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 \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.

3.4 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 $\geq 3 \times$ 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;

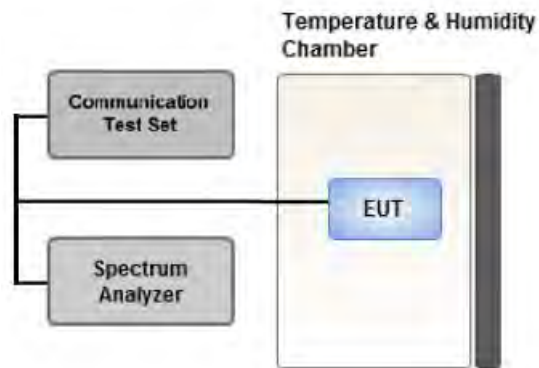
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

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

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

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

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.

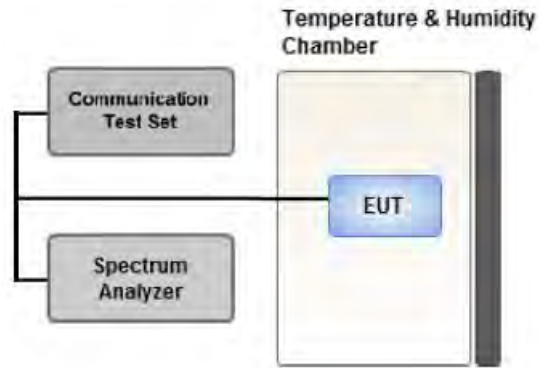
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 $\geq 3 \times$ 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.

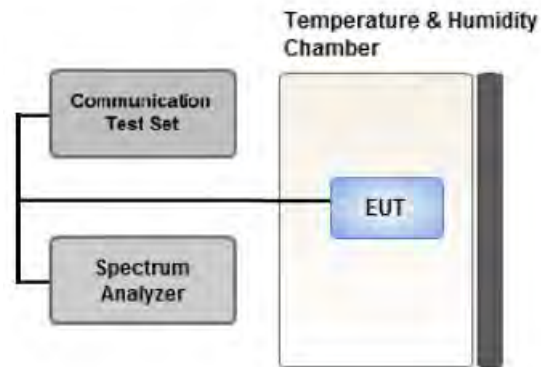
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

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

3.7 CHANNEL 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

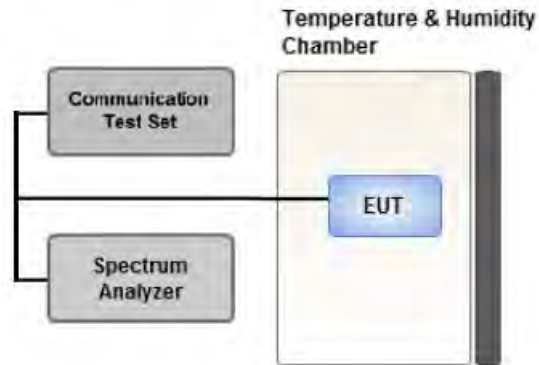
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW :
 - .- EA licensee's frequency block by up to and including 37.5 kHz : 300 Hz
 - .- EA licensee's frequency block greater than 37.5 kHz : 100 kHz
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 = auto couple
9. The trace was allowed to stabilize

Test Notes

For 90.691(a), RBW=300 Hz for offset less than 37.5 kHz from channel edge and RBW=100 kHz for offsets greater than 37.5 kHz is allowed.

Where Margin < 1 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.
- All modes of operation were investigated and the worst case configuration results are reported.
 Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
 Worst case : Stand alone
- We were performed the RSE test in condition of co-location.
 Mode : Stand alone, Simultaneous transmission scenarios
 Worst case : Stand alone
- In the case of radiated spurious emissions, all bandwidth of operation was investigated and the worst case bandwidth results are reported. (Worst case : 5 MHz(Main 1 Ant), 1.4 MHz(Sub 1 Ant))
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All modes of operation were tested and the worst case results are reported.
- Please refer to the table below.
- SM-S926B/DS & additional models were tested and the worst case results are reported.
 (Worst case : SM-S926B/DS)

[Main 1 Ant Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	1	0	X
Radiated Spurious and Harmonic Emissions	QPSK	1	0	Y

[Sub 1 Ant Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	1	0	X
Radiated Spurious and Harmonic Emissions	QPSK	1	0	Y

3.10 WORST CASE(CONDUCTED TEST)

- Worst case : Of all modulation, We have tested modulation of the high Conducted Output Power.
- SM-S926B/DS & additional models were tested and the worst case results are reported.
(Worst case : SM-S926B/DS)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5	High	Full RB	0
	QPSK, 16QAM, 64QAM, 256QAM	10, 15	Mid	Full RB	0
Channel 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	Mid	1	0
				1	49
		15	Mid	1	0
				1	74
1.4, 3, 5	Low, High	Full RB	0		
10, 15	Mid	Full RB	0		
Band Edge (Straddle Channel)	QPSK	1.4	Mid	1	5
		3	Mid	1	14
		5	Mid	1	24
		10	Mid	1	49
		1.4, 3, 5, 10	Mid	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5	Low, High	1	0
		10, 15	Mid	1	0

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	FBSR-02B(1.2G HPF+LNA)	T&M SYSTEM	F1L1	01/19/2024	Annual
RF Switching System	FBSR-02B(3.3G HPF+LNA)	T&M SYSTEM	F1L2	01/19/2024	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/19/2024	Annual
DC Power Supply	E3632A	Agilent	MY40010147	06/23/2024	Annual
Dipole Antenna	UHAP	Schwarzbeck	557	03/09/2025	Biennial
Dipole Antenna	UHAP	Schwarzbeck	558	03/09/2025	Biennial
Chamber	SU-642	ESPEC	93008124	02/22/2024	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	147	08/17/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1298	09/11/2025	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
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/20/2024	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/19/2024	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	100931	08/17/2024	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/17/2024	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/16/2024	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	03/21/2024	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	12/01/2023	Annual
Wideband Radio Communication Tester	MT8820C	Anritsu Corp.	6201026545	01/05/2024	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	05/24/2024	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 (\pm dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.90 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.14 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.16 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.57 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.76 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.52 (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
Channel Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §90.691	< 50 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5 kHz of Block Edge	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §22.917(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§2.1046 §90.635	< 100 Watts	PASS
Frequency stability / variation of ambient temperature	§2.1055, §90.213 §22.355	< 2.5 ppm	PASS

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§22.913(a)(5)	< 7 Watts max. ERP (Only 15 MHz B.W)	PASS
Radiated Spurious and Harmonic Emissions	§2.1053, §90.691 §22.917(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(Main 1 Ant)

8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				814.7 MHz		823.3 MHz		
				dBm	W	dBm	W	
1.4	QPSK	1	0	23.91	0.246	23.94	0.248	100
		1	3	23.84	0.242	23.85	0.243	100
		1	5	23.94	0.248	23.93	0.247	100
		3	0	23.87	0.244	23.90	0.245	100
		3	1	23.75	0.237	23.85	0.243	100
		3	3	23.93	0.247	23.88	0.244	100
		6	0	22.94	0.197	23.00	0.200	100
	16QAM	1	0	23.04	0.201	23.16	0.207	100
		1	3	22.93	0.196	23.03	0.201	100
		1	5	23.07	0.203	23.15	0.207	100
		3	0	22.94	0.197	22.97	0.198	100
		3	1	22.90	0.195	23.04	0.201	100
		3	3	22.94	0.197	23.00	0.200	100
		6	0	21.99	0.158	22.01	0.159	100
	64QAM	1	0	22.04	0.160	22.10	0.162	100
		1	3	22.02	0.159	22.09	0.162	100
		1	5	22.07	0.161	22.24	0.167	100
		3	0	21.97	0.157	22.05	0.160	100
		3	1	21.99	0.158	22.13	0.163	100
		3	3	22.04	0.160	22.02	0.159	100
		6	0	20.89	0.123	21.07	0.128	100
	256QAM	1	0	19.27	0.085	19.31	0.085	100
		1	3	19.23	0.084	19.30	0.085	100
		1	5	19.23	0.084	19.26	0.084	100
		3	0	19.22	0.084	19.26	0.084	100
		3	1	19.20	0.083	19.22	0.084	100
		3	3	19.15	0.082	19.22	0.084	100
		6	0	18.99	0.079	19.04	0.080	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				815.5 MHz		822.5 MHz		
				dBm	W	dBm	W	
3	QPSK	1	0	24.05	0.254	24.03	0.253	100
		1	7	24.08	0.256	24.07	0.255	100
		1	14	23.93	0.247	23.91	0.246	100
		8	0	23.06	0.202	23.03	0.201	100
		8	3	22.99	0.199	23.03	0.201	100
		8	7	23.04	0.201	23.04	0.201	100
		15	0	23.05	0.202	23.06	0.202	100
	16QAM	1	0	23.07	0.203	23.09	0.204	100
		1	7	22.93	0.196	23.11	0.205	100
		1	14	23.22	0.210	23.22	0.210	100
		8	0	22.03	0.160	22.06	0.161	100
		8	3	22.03	0.160	22.08	0.161	100
		8	7	22.01	0.159	22.04	0.160	100
		15	0	22.03	0.160	22.04	0.160	100
	64QAM	1	0	22.16	0.164	22.14	0.164	100
		1	7	22.11	0.163	22.19	0.166	100
		1	14	22.07	0.161	22.05	0.160	100
		8	0	21.01	0.126	21.07	0.128	100
		8	3	20.99	0.126	21.02	0.126	100
		8	7	21.06	0.128	21.07	0.128	100
		15	0	21.05	0.127	21.06	0.128	100
	256QAM	1	0	19.24	0.084	19.29	0.085	100
		1	7	19.19	0.083	19.24	0.084	100
		1	14	19.21	0.083	19.25	0.084	100
		8	0	19.20	0.083	19.22	0.084	100
		8	3	19.08	0.081	19.12	0.082	100
		8	7	19.03	0.080	19.06	0.081	100
		15	0	19.06	0.081	19.10	0.081	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				816.5 MHz		821.5 MHz		
				dBm	W	dBm	W	
5	QPSK	1	0	23.97	0.249	24.00	0.251	100
		1	12	24.07	0.255	24.08	0.256	100
		1	24	24.08	0.256	24.02	0.252	100
		12	0	23.14	0.206	23.11	0.205	100
		12	6	23.14	0.206	23.11	0.205	100
		12	11	23.15	0.207	23.13	0.206	100
		25	0	23.14	0.206	23.12	0.205	100
	16QAM	1	0	23.38	0.218	23.21	0.209	100
		1	12	23.24	0.211	23.18	0.208	100
		1	24	23.30	0.214	23.20	0.209	100
		12	0	22.11	0.163	22.09	0.162	100
		12	6	22.07	0.161	22.10	0.162	100
		12	11	22.12	0.163	22.11	0.163	100
		25	0	22.11	0.163	22.09	0.162	100
	64QAM	1	0	22.19	0.166	22.22	0.167	100
		1	12	22.24	0.167	22.19	0.166	100
		1	24	22.17	0.165	22.18	0.165	100
		12	0	21.11	0.129	21.12	0.129	100
		12	6	21.13	0.130	21.12	0.129	100
		12	11	21.12	0.129	21.11	0.129	100
		25	0	21.10	0.129	21.08	0.128	100
	256QAM	1	0	19.14	0.082	19.24	0.084	100
		1	12	19.25	0.084	19.28	0.085	100
		1	24	19.29	0.085	19.27	0.085	100
		12	0	19.05	0.080	19.07	0.081	100
		12	6	19.13	0.082	19.15	0.082	100
		12	11	19.11	0.081	19.12	0.082	100
		25	0	19.15	0.082	19.15	0.082	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	24.19	0.262	100
		1	24	24.07	0.255	100
		1	49	23.99	0.251	100
		25	0	23.17	0.207	100
		25	12	23.12	0.205	100
		25	24	23.13	0.206	100
		50	0	23.13	0.206	100
	16QAM	1	0	23.20	0.209	100
		1	24	23.20	0.209	100
		1	49	23.16	0.207	100
		25	0	22.14	0.164	100
		25	12	22.13	0.163	100
		25	24	22.08	0.161	100
		50	0	22.12	0.163	100
	64QAM	1	0	22.28	0.169	100
		1	24	22.35	0.172	100
		1	49	22.28	0.169	100
		25	0	21.08	0.128	100
		25	12	21.10	0.129	100
		25	24	21.05	0.127	100
		50	0	21.10	0.129	100
	256QAM	1	0	19.37	0.086	100
		1	24	19.38	0.087	100
		1	49	19.36	0.086	100
		25	0	19.13	0.082	100
		25	12	19.13	0.082	100
		25	24	19.11	0.081	100
		50	0	19.15	0.082	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	24.12	0.258	100
		1	36	24.05	0.254	100
		1	74	24.00	0.251	100
		36	0	23.12	0.205	100
		36	18	23.09	0.204	100
		36	39	23.06	0.202	100
		75	0	23.08	0.203	100
	16QAM	1	0	23.18	0.208	100
		1	36	23.01	0.200	100
		1	74	23.12	0.205	100
		36	0	22.12	0.163	100
		36	18	22.01	0.159	100
		36	39	22.03	0.160	100
		75	0	22.04	0.160	100
	64QAM	1	0	22.31	0.170	100
		1	36	22.19	0.166	100
		1	74	22.17	0.165	100
		36	0	21.11	0.129	100
		36	18	21.05	0.127	100
		36	39	21.06	0.128	100
		75	0	21.06	0.128	100
	256QAM	1	0	19.42	0.087	100
		1	36	19.26	0.084	100
		1	74	19.23	0.084	100
		36	0	19.12	0.082	100
		36	18	19.10	0.081	100
		36	39	19.11	0.081	100
		75	0	19.12	0.082	100

8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
814.7	LTE B26/ 1.4 MHz	QPSK	-32.02	28.82	-10.05	1.38	H	< 100	0.055	17.39
		16QAM	-33.31	27.53	-10.05	1.38	H		0.041	16.10
		64QAM	-34.33	26.51	-10.05	1.38	H		0.032	15.08
		256QAM	-36.85	23.99	-10.05	1.38	H		0.018	12.56
823.3		QPSK	-32.21	28.69	-10.05	1.38	H		0.053	17.26
		16QAM	-33.48	27.42	-10.05	1.38	H		0.040	15.99
		64QAM	-34.57	26.33	-10.05	1.38	H		0.031	14.90
		256QAM	-37.05	23.85	-10.05	1.38	H		0.018	12.42

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
815.5	LTE B26/ 3 MHz	QPSK	-32.04	28.77	-10.05	1.38	H	< 100	0.054	17.34
		16QAM	-33.41	27.40	-10.05	1.38	H		0.040	15.97
		64QAM	-34.37	26.44	-10.05	1.38	H		0.032	15.01
		256QAM	-36.90	23.91	-10.05	1.38	H		0.018	12.48
822.5		QPSK	-32.03	28.87	-10.05	1.38	H		0.056	17.44
		16QAM	-33.39	27.51	-10.05	1.38	H		0.041	16.08
		64QAM	-34.35	26.55	-10.05	1.38	H		0.033	15.12
		256QAM	-36.87	24.03	-10.05	1.38	H		0.018	12.60

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
816.5	LTE B26/ 5 MHz	QPSK	-31.98	28.76	-10.05	1.38	H	< 100	0.054	17.33
		16QAM	-33.22	27.52	-10.05	1.38	H		0.041	16.09
		64QAM	-34.25	26.49	-10.05	1.38	H		0.032	15.06
		256QAM	-36.80	23.94	-10.05	1.38	H		0.018	12.51
821.5		QPSK	-31.98	28.94	-10.05	1.38	H		0.056	17.51
		16QAM	-33.20	27.72	-10.05	1.38	H		0.043	16.29
		64QAM	-34.27	26.65	-10.05	1.38	H		0.033	15.22
		256QAM	-36.87	24.05	-10.05	1.38	H		0.018	12.62

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
819.0	LTE B26/ 10 MHz	QPSK	-31.88	28.86	-10.05	1.38	H	< 100	0.055	17.43
		16QAM	-33.22	27.52	-10.05	1.38	H		0.041	16.09
		64QAM	-34.25	26.49	-10.05	1.38	H		0.032	15.06
		256QAM	-36.73	24.01	-10.05	1.38	H		0.018	12.58

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
821.5	LTE B26/ 15 MHz	QPSK	-31.83	29.09	-10.05	1.38	H	< 7.00	0.058	17.66
		16QAM	-33.11	27.81	-10.05	1.38	H		0.043	16.38
		64QAM	-34.17	26.75	-10.05	1.38	H		0.034	15.32
		256QAM	-36.63	24.29	-10.05	1.38	H		0.019	12.86

Note

1. Limit: None (for reporting purposes only)

8.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26
- ▣ MODULATION SIGNAL: 5 MHz QPSK
- ▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dB)
26715 (816.5)	1,633.00	-50.72	8.70	-58.64	1.93	H	-51.87	-13.00
	2,449.50	-47.87	10.20	-52.49	2.52	H	-44.81	-13.00
	3,266.00	-58.58	10.60	-60.27	2.86	H	-52.53	-13.00
26765 (821.5)	1,643.00	-49.44	8.70	-58.06	1.97	H	-51.33	-13.00
	2,464.50	-46.73	10.20	-51.10	2.51	H	-43.41	-13.00
	3,286.00	-58.70	10.60	-61.14	2.89	H	-53.43	-13.00

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Band 26	1.4 MHz	823.3	QPSK	6	0	1.0997
			16QAM			1.0941
			64QAM			1.0923
			256QAM			1.0957
	3 MHz	822.5	QPSK	15		2.7139
			16QAM			2.7038
			64QAM			2.7144
			256QAM			2.7143
	5 MHz	821.5	QPSK	25		4.5363
			16QAM			4.5220
			64QAM			4.5424
			256QAM			4.5300
	10 MHz	819.0	QPSK	50		9.0197
			16QAM			9.0072
			64QAM			9.0148
			256QAM			8.9895
	15 MHz	821.5	QPSK	75		13.469
			16QAM			13.457
			64QAM			13.491
			256QAM			13.482

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 69 ~ 88.

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)
26	1.4	814.7	3.6870	27.976	-66.949	-38.973	-13.00
		823.3	3.6920	27.976	-66.839	-38.863	
	3	815.5	3.6730	27.976	-66.890	-38.914	
		822.5	3.7204	27.976	-67.388	-39.412	
	5	816.5	3.6925	27.976	-67.192	-39.216	
		821.5	3.7109	27.976	-67.261	-39.285	
	10	819.0	3.6870	27.976	-67.486	-39.510	
	15	821.5	3.6780	27.976	-67.456	-39.480	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 109 ~ 116.
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	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

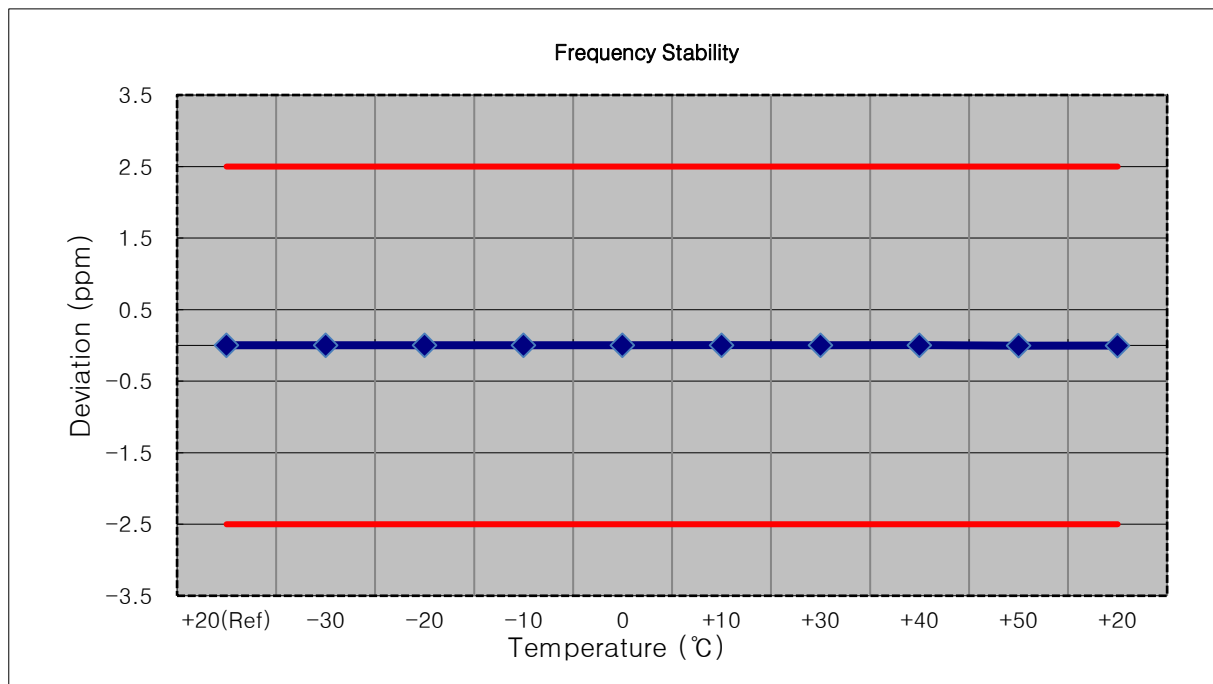
8.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 89 ~ 108.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

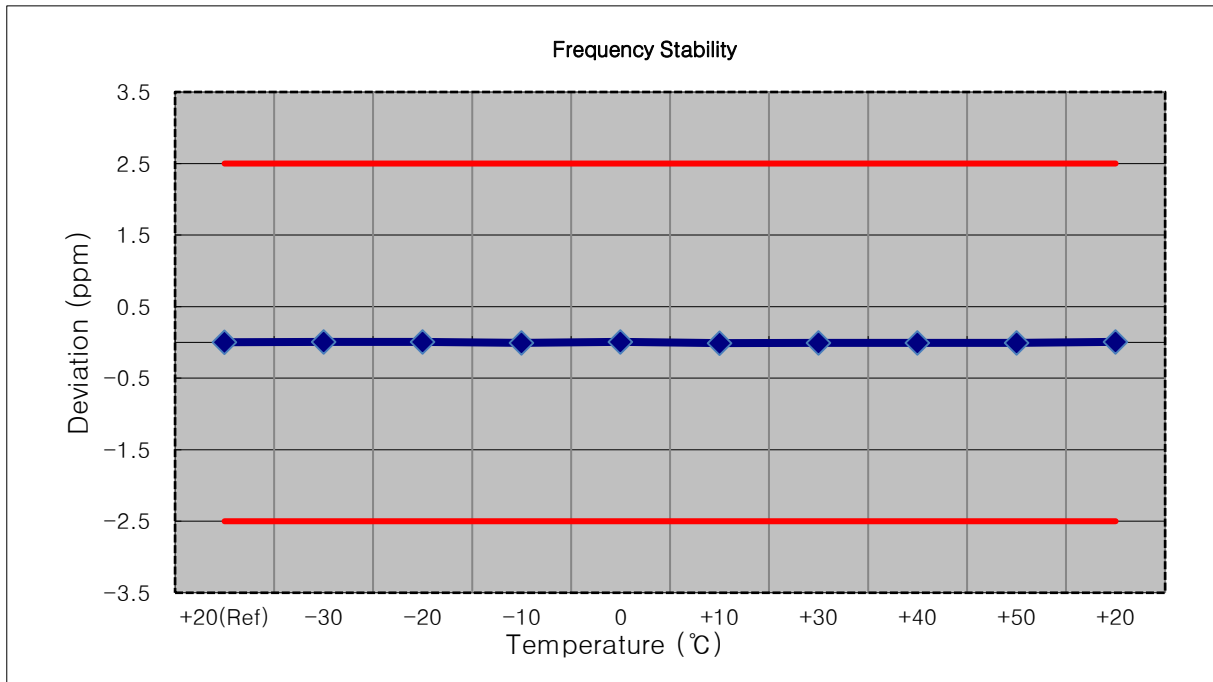
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 814,700,000 Hz
- ▣ CHANNEL: 26697(1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	814 700 002	0.0	0.000 000	0.000
100 %		-30	814 700 004	2.1	0.000 000	0.003
100 %		-20	814 700 005	2.7	0.000 000	0.003
100 %		-10	814 700 004	2.1	0.000 000	0.003
100 %		0	814 700 004	2.3	0.000 000	0.003
100 %		+10	814 700 005	3.4	0.000 000	0.004
100 %		+30	814 700 005	3.0	0.000 000	0.004
100 %		+40	814 700 005	3.4	0.000 000	0.004
100 %		+50	814 699 998	-3.5	0.000 000	-0.004
Batt. Endpoint		3.300	+20	814 700 000	-1.4	0.000 000



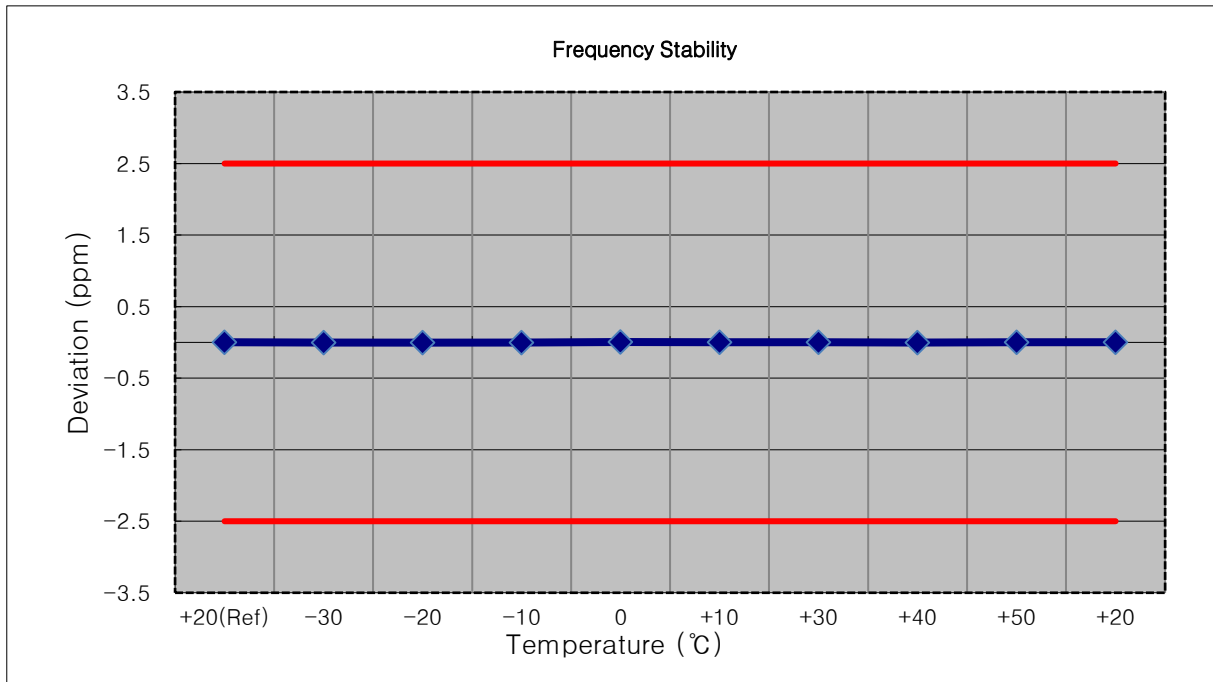
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 815,500,000 Hz
- ▣ CHANNEL: 26705(3 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	815 499 993	0.0	0.000 000	0.000
100 %		-30	815 499 997	4.6	0.000 001	0.006
100 %		-20	815 499 997	3.9	0.000 000	0.005
100 %		-10	815 499 988	-5.2	-0.000 001	-0.006
100 %		0	815 499 999	6.2	0.000 001	0.008
100 %		+10	815 499 985	-8.1	-0.000 001	-0.010
100 %		+30	815 499 986	-6.5	-0.000 001	-0.008
100 %		+40	815 499 987	-5.9	-0.000 001	-0.007
100 %		+50	815 499 987	-6.0	-0.000 001	-0.007
Batt. Endpoint		3.300	+20	815 499 999	6.2	0.000 001



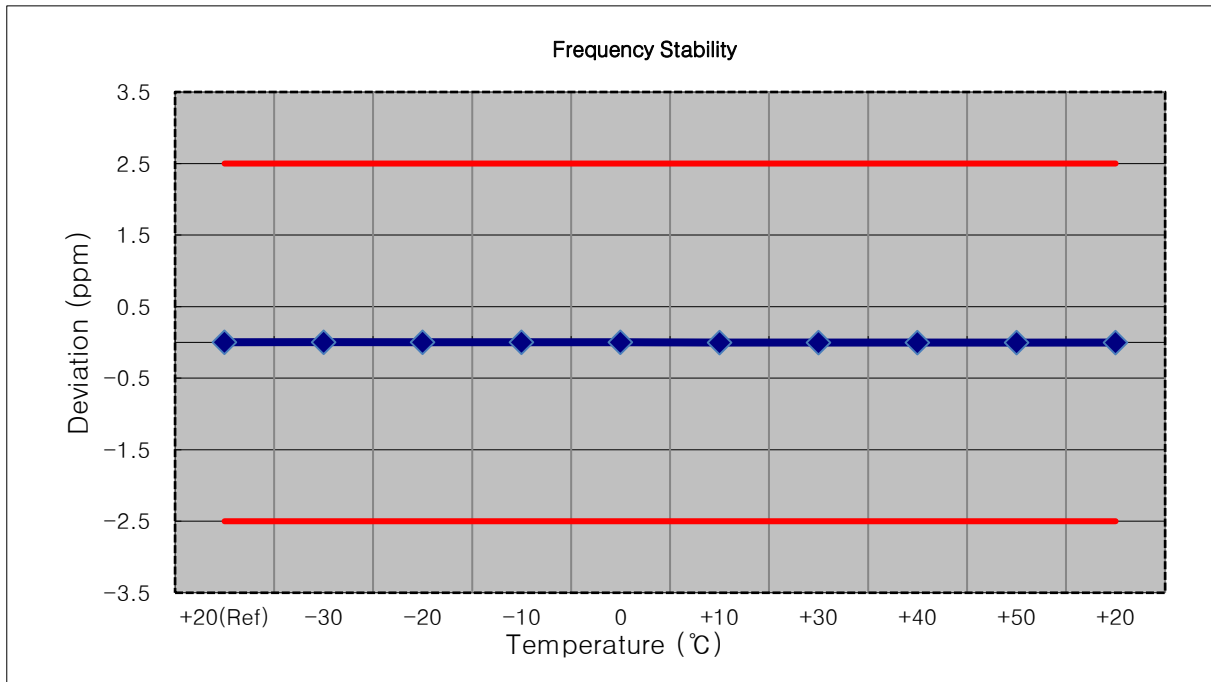
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 816,500,000 Hz
- ▣ CHANNEL: 26715(5 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	816 500 003	0.0	0.000 000	0.000
100 %		-30	816 500 001	-1.5	0.000 000	-0.002
100 %		-20	816 500 000	-2.8	0.000 000	-0.003
100 %		-10	816 500 000	-2.7	0.000 000	-0.003
100 %		0	816 500 007	4.1	0.000 001	0.005
100 %		+10	816 500 005	1.7	0.000 000	0.002
100 %		+30	816 500 006	2.6	0.000 000	0.003
100 %		+40	816 500 000	-2.7	0.000 000	-0.003
100 %		+50	816 500 005	2.2	0.000 000	0.003
Batt. Endpoint		3.300	+20	816 500 006	2.9	0.000 000



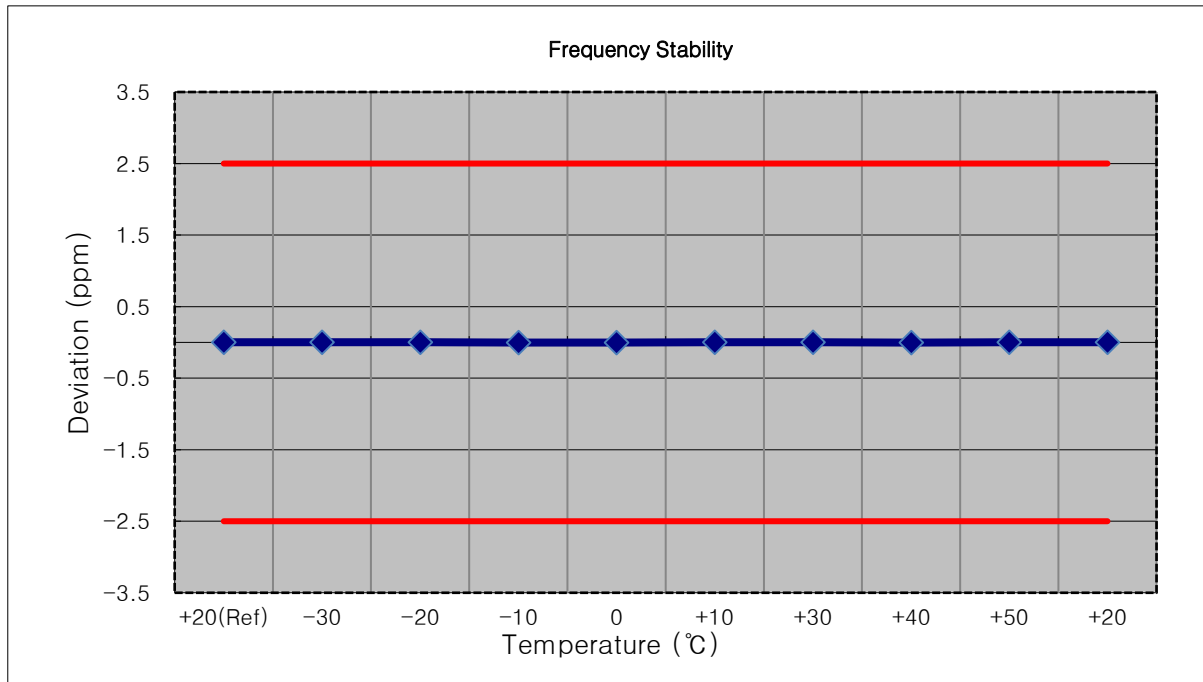
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 819,000,000 Hz
- ▣ CHANNEL: 26740(10 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	819 000 003	0.0	0.000 000	0.000
100 %		-30	819 000 006	3.0	0.000 000	0.004
100 %		-20	819 000 005	2.1	0.000 000	0.003
100 %		-10	819 000 005	2.0	0.000 000	0.002
100 %		0	819 000 004	1.7	0.000 000	0.002
100 %		+10	819 000 001	-1.4	0.000 000	-0.002
100 %		+30	819 000 001	-2.0	0.000 000	-0.002
100 %		+40	819 000 001	-2.2	0.000 000	-0.003
100 %		+50	819 000 000	-2.6	0.000 000	-0.003
Batt. Endpoint		3.300	+20	819 000 001	-2.1	0.000 000



- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 821,500,000 Hz
- ▣ CHANNEL: 26765(15 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	821 500 002	0.0	0.000 000	0.000
100 %		-30	821 500 004	1.8	0.000 000	0.002
100 %		-20	821 500 004	2.0	0.000 000	0.002
100 %		-10	821 500 000	-2.3	0.000 000	-0.003
100 %		0	821 500 001	-1.5	0.000 000	-0.002
100 %		+10	821 500 004	1.6	0.000 000	0.002
100 %		+30	821 500 004	1.8	0.000 000	0.002
100 %		+40	821 500 000	-2.4	0.000 000	-0.003
100 %		+50	821 500 003	1.4	0.000 000	0.002
Batt. Endpoint		3.300	+20	821 500 004	1.6	0.000 000



8.8 STRADDLE CHANNEL

8.8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
1.4	QPSK	1	0	23.93	0.247	100
		1	3	23.85	0.242	100
		1	5	23.94	0.247	100
		3	0	23.89	0.245	100
		3	1	23.80	0.240	100
		3	3	23.91	0.246	100
		6	0	22.97	0.198	100
	16QAM	1	0	23.10	0.204	100
		1	3	22.98	0.199	100
		1	5	23.11	0.205	100
		3	0	22.96	0.197	100
		3	1	22.97	0.198	100
		3	3	22.97	0.198	100
		6	0	22.00	0.158	100
	64QAM	1	0	22.07	0.161	100
		1	3	22.06	0.161	100
		1	5	22.16	0.164	100
		3	0	22.01	0.159	100
		3	1	22.06	0.161	100
		3	3	22.03	0.160	100
		6	0	20.98	0.125	100
	256QAM	1	0	19.29	0.085	100
		1	3	19.27	0.084	100
		1	5	19.25	0.084	100
		3	0	19.24	0.084	100
		3	1	19.21	0.083	100
		3	3	19.19	0.083	100
		6	0	19.02	0.080	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	24.04	0.254	100
		1	7	24.08	0.256	100
		1	14	23.92	0.247	100
		8	0	23.05	0.202	100
		8	3	23.01	0.200	100
		8	7	23.04	0.201	100
		15	0	23.06	0.202	100
	16QAM	1	0	23.08	0.203	100
		1	7	23.02	0.200	100
		1	14	23.22	0.210	100
		8	0	22.05	0.160	100
		8	3	22.06	0.161	100
		8	7	22.03	0.159	100
		15	0	22.04	0.160	100
	64QAM	1	0	22.15	0.164	100
		1	7	22.15	0.164	100
		1	14	22.06	0.161	100
		8	0	21.04	0.127	100
		8	3	21.01	0.126	100
		8	7	21.07	0.128	100
		15	0	21.06	0.127	100
	256QAM	1	0	19.27	0.084	100
		1	7	19.22	0.083	100
		1	14	19.23	0.084	100
		8	0	19.21	0.083	100
		8	3	19.10	0.081	100
		8	7	19.05	0.080	100
		15	0	19.08	0.081	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	23.99	0.250	100
		1	12	24.08	0.256	100
		1	24	24.05	0.254	100
		12	0	23.13	0.205	100
		12	6	23.13	0.205	100
		12	11	23.14	0.206	100
		25	0	23.13	0.206	100
	16QAM	1	0	23.30	0.214	100
		1	12	23.21	0.209	100
		1	24	23.25	0.211	100
		12	0	22.10	0.162	100
		12	6	22.09	0.162	100
		12	11	22.12	0.163	100
		25	0	22.10	0.162	100
	64QAM	1	0	22.21	0.166	100
		1	12	22.22	0.167	100
		1	24	22.18	0.165	100
		12	0	21.12	0.129	100
		12	6	21.13	0.130	100
		12	11	21.12	0.129	100
		25	0	21.09	0.129	100
	256QAM	1	0	19.19	0.083	100
		1	12	19.27	0.084	100
		1	24	19.28	0.085	100
		12	0	19.06	0.081	100
		12	6	19.14	0.082	100
		12	11	19.12	0.082	100
		25	0	19.15	0.082	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	24.16	0.261	100
		1	24	24.03	0.253	100
		1	49	23.96	0.249	100
		25	0	23.13	0.206	100
		25	12	23.09	0.204	100
		25	24	23.08	0.203	100
		50	0	23.10	0.204	100
	16QAM	1	0	23.17	0.207	100
		1	24	23.16	0.207	100
		1	49	23.12	0.205	100
		25	0	22.10	0.162	100
		25	12	22.09	0.162	100
		25	24	22.04	0.160	100
		50	0	22.08	0.161	100
	64QAM	1	0	22.24	0.167	100
		1	24	22.31	0.170	100
		1	49	22.24	0.167	100
		25	0	21.04	0.127	100
		25	12	21.06	0.128	100
		25	24	21.01	0.126	100
		50	0	21.06	0.128	100
	256QAM	1	0	19.33	0.086	100
		1	24	19.34	0.086	100
		1	49	19.31	0.085	100
		25	0	19.09	0.081	100
		25	12	19.09	0.081	100
		25	24	19.07	0.081	100
		50	0	19.12	0.082	100

8.8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 1.4 MHz	QPSK	-32.26	28.64	-10.05	1.38	H	< 7.00	0.053	17.21
		16QAM	-33.53	27.37	-10.05	1.38	H		0.039	15.94
		64QAM	-34.65	26.25	-10.05	1.38	H		0.030	14.82
		256QAM	-37.10	23.80	-10.05	1.38	H		0.017	12.37

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 3 MHz	QPSK	-32.16	28.74	-10.05	1.38	H	< 7.00	0.054	17.31
		16QAM	-33.49	27.41	-10.05	1.38	H		0.040	15.98
		64QAM	-34.55	26.35	-10.05	1.38	H		0.031	14.92
		256QAM	-37.00	23.90	-10.05	1.38	H		0.018	12.47

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 5 MHz	QPSK	-32.14	28.76	-10.05	1.38	H	< 7.00	0.054	17.33
		16QAM	-33.38	27.52	-10.05	1.38	H		0.041	16.09
		64QAM	-34.37	26.53	-10.05	1.38	H		0.032	15.10
		256QAM	-37.02	23.88	-10.05	1.38	H		0.018	12.45

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 10 MHz	QPSK	-31.89	29.01	-10.05	1.38	H	< 7.00	0.057	17.58
		16QAM	-33.23	27.67	-10.05	1.38	H		0.042	16.24
		64QAM	-34.27	26.63	-10.05	1.38	H		0.033	15.20
		256QAM	-36.75	24.15	-10.05	1.38	H		0.019	12.72

8.8.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26
- ▣ MODULATION SIGNAL: 10 MHz QPSK
- ▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dB)
26790 (824.0)	1,648.00	-49.79	9.20	-58.78	2.02	H	-51.60	-13.00
	2,472.00	-46.57	10.20	-50.71	2.49	H	-43.00	-13.00
	3,296.00	-58.60	10.75	-60.95	2.91	H	-53.11	-13.00

8.8.4 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	1.4	824.0	3.6850	27.976	-66.665	-38.689	-13.00
	3		3.6930	27.976	-67.278	-39.302	
	5		3.7059	27.976	-66.845	-38.869	
	10		3.7129	27.976	-67.533	-39.557	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 118 ~ 121.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor (dB) = Cable Loss + Attenuator + Power Splitter

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

8.8.5 CHANNEL EDGE(Part90)

- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Channel Edge are shown Page 122 ~ 133.

8.8.6 BAND EDGE(Part22)

- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 134 ~ 141.

9. TEST DATA(Sub 1 Ant)

9.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				814.7 MHz		823.3 MHz		
				dBm	W	dBm	W	
1.4	QPSK	1	0	23.70	0.234	23.66	0.232	100
		1	3	23.60	0.229	23.56	0.227	100
		1	5	23.68	0.233	23.64	0.231	100
		3	0	23.67	0.233	23.64	0.231	100
		3	1	23.59	0.229	23.61	0.230	100
		3	3	23.64	0.231	23.61	0.230	100
		6	0	22.18	0.165	22.16	0.165	100
	16QAM	1	0	22.41	0.174	22.36	0.172	100
		1	3	22.29	0.169	22.24	0.167	100
		1	5	22.24	0.167	22.29	0.169	100
		3	0	22.15	0.164	22.18	0.165	100
		3	1	22.19	0.166	22.20	0.166	100
		3	3	22.20	0.166	22.22	0.167	100
		6	0	21.19	0.132	21.19	0.132	100
	64QAM	1	0	21.31	0.135	21.31	0.135	100
		1	3	21.26	0.134	21.27	0.134	100
		1	5	21.27	0.134	21.27	0.134	100
		3	0	21.27	0.134	21.27	0.134	100
		3	1	21.22	0.132	21.20	0.132	100
		3	3	21.25	0.133	21.23	0.133	100
		6	0	20.19	0.104	20.17	0.104	100
	256QAM	1	0	18.84	0.077	18.84	0.076	100
		1	3	18.70	0.074	18.69	0.074	100
		1	5	18.77	0.075	18.85	0.077	100
		3	0	18.78	0.076	18.81	0.076	100
		3	1	18.76	0.075	18.77	0.075	100
		3	3	18.76	0.075	18.77	0.075	100
		6	0	18.73	0.075	18.74	0.075	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				815.5 MHz		822.5 MHz		
				dBm	W	dBm	W	
3	QPSK	1	0	23.68	0.233	23.68	0.233	100
		1	7	23.74	0.237	23.76	0.237	100
		1	14	23.69	0.234	23.65	0.232	100
		8	0	22.27	0.169	22.25	0.168	100
		8	3	22.26	0.168	22.27	0.168	100
		8	7	22.30	0.170	22.27	0.169	100
		15	0	22.32	0.171	22.27	0.169	100
	16QAM	1	0	22.43	0.175	22.38	0.173	100
		1	7	22.48	0.177	22.39	0.173	100
		1	14	22.43	0.175	22.34	0.171	100
		8	0	21.30	0.135	21.28	0.134	100
		8	3	21.38	0.137	21.36	0.137	100
		8	7	21.31	0.135	21.25	0.133	100
		15	0	21.27	0.134	21.25	0.133	100
	64QAM	1	0	21.47	0.140	21.45	0.140	100
		1	7	21.44	0.139	21.40	0.138	100
		1	14	21.39	0.138	21.34	0.136	100
		8	0	20.26	0.106	20.23	0.105	100
		8	3	20.31	0.107	20.30	0.107	100
		8	7	20.28	0.107	20.27	0.106	100
		15	0	20.30	0.107	20.29	0.107	100
	256QAM	1	0	18.87	0.077	18.88	0.077	100
		1	7	18.96	0.079	18.91	0.078	100
		1	14	18.84	0.077	18.83	0.076	100
		8	0	18.82	0.076	18.84	0.076	100
		8	3	18.84	0.077	18.85	0.077	100
		8	7	18.79	0.076	18.77	0.075	100
		15	0	18.80	0.076	18.81	0.076	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)				Limit (W)
				816.5 MHz		821.5 MHz		
				dBm	W	dBm	W	
5	QPSK	1	0	23.72	0.236	23.69	0.234	100
		1	12	23.78	0.239	23.74	0.236	100
		1	24	23.65	0.232	23.66	0.232	100
		12	0	22.25	0.168	22.23	0.167	100
		12	6	22.22	0.167	22.20	0.166	100
		12	11	22.26	0.168	22.24	0.167	100
		25	0	22.24	0.167	22.25	0.168	100
	16QAM	1	0	22.42	0.175	22.43	0.175	100
		1	12	22.35	0.172	22.33	0.171	100
		1	24	22.28	0.169	22.29	0.169	100
		12	0	21.26	0.134	21.27	0.134	100
		12	6	21.24	0.133	21.23	0.133	100
		12	11	21.20	0.132	21.22	0.132	100
		25	0	21.21	0.132	21.21	0.132	100
	64QAM	1	0	21.39	0.138	21.44	0.139	100
		1	12	21.33	0.136	21.31	0.135	100
		1	24	21.31	0.135	21.34	0.136	100
		12	0	20.27	0.106	20.27	0.106	100
		12	6	20.25	0.106	20.24	0.106	100
		12	11	20.26	0.106	20.24	0.106	100
		25	0	20.21	0.105	20.23	0.106	100
	256QAM	1	0	18.94	0.078	18.89	0.077	100
		1	12	18.88	0.077	18.86	0.077	100
		1	24	18.97	0.079	18.94	0.078	100
		12	0	18.79	0.076	18.78	0.075	100
		12	6	18.78	0.076	18.78	0.075	100
		12	11	18.76	0.075	18.77	0.075	100
		25	0	18.79	0.076	18.81	0.076	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				819 MHz		
				dBm	W	
10	QPSK	1	0	23.88	0.244	100
		1	24	23.75	0.237	100
		1	49	23.63	0.231	100
		25	0	22.37	0.172	100
		25	12	22.31	0.170	100
		25	24	22.30	0.170	100
		50	0	22.32	0.170	100
	16QAM	1	0	22.48	0.177	100
		1	24	22.35	0.172	100
		1	49	22.35	0.172	100
		25	0	21.33	0.136	100
		25	12	21.27	0.134	100
		25	24	21.24	0.133	100
		50	0	21.26	0.134	100
	64QAM	1	0	21.39	0.138	100
		1	24	21.38	0.138	100
		1	49	21.32	0.136	100
		25	0	20.28	0.107	100
		25	12	20.27	0.106	100
		25	24	20.23	0.105	100
		50	0	20.33	0.108	100
	256QAM	1	0	19.02	0.080	100
		1	24	18.87	0.077	100
		1	49	18.90	0.078	100
		25	0	18.88	0.077	100
		25	12	18.83	0.076	100
		25	24	18.79	0.076	100
		50	0	18.85	0.077	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				821.5 MHz		
				dBm	W	
15	QPSK	1	0	23.85	0.243	100
		1	36	23.73	0.236	100
		1	74	23.61	0.230	100
		36	0	22.33	0.171	100
		36	18	22.28	0.169	100
		36	39	22.28	0.169	100
		75	0	22.29	0.169	100
	16QAM	1	0	22.45	0.176	100
		1	36	22.32	0.171	100
		1	74	22.32	0.171	100
		36	0	21.31	0.135	100
		36	18	21.25	0.133	100
		36	39	21.22	0.133	100
		75	0	21.24	0.133	100
	64QAM	1	0	21.38	0.137	100
		1	36	21.36	0.137	100
		1	74	21.31	0.135	100
		36	0	20.25	0.106	100
		36	18	20.25	0.106	100
		36	39	20.20	0.105	100
		75	0	20.31	0.107	100
	256QAM	1	0	19.00	0.079	100
		1	36	18.86	0.077	100
		1	74	18.88	0.077	100
		36	0	18.85	0.077	100
		36	18	18.81	0.076	100
		36	39	18.78	0.075	100
		75	0	18.83	0.076	100

9.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
814.7	LTE B26/ 1.4 MHz	QPSK	-30.74	30.10	-10.05	1.38	H	< 100	0.074	18.67
		16QAM	-31.98	28.86	-10.05	1.38	H		0.055	17.43
		64QAM	-32.96	27.88	-10.05	1.38	H		0.044	16.45
		256QAM	-35.50	25.34	-10.05	1.38	H		0.025	13.91
823.3		QPSK	-31.02	29.88	-10.05	1.38	H		0.070	18.45
		16QAM	-32.30	28.60	-10.05	1.38	H		0.052	17.17
		64QAM	-33.29	27.61	-10.05	1.38	H		0.042	16.18
		256QAM	-35.80	25.10	-10.05	1.38	H		0.023	13.67

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
815.5	LTE B26/ 3 MHz	QPSK	-30.73	30.08	-10.05	1.38	H	< 100	0.073	18.65
		16QAM	-32.04	28.77	-10.05	1.38	H		0.054	17.34
		64QAM	-32.92	27.89	-10.05	1.38	H		0.044	16.46
		256QAM	-35.50	25.31	-10.05	1.38	H		0.024	13.88
822.5		QPSK	-30.87	30.03	-10.05	1.38	H		0.072	18.60
		16QAM	-32.20	28.70	-10.05	1.38	H		0.053	17.27
		64QAM	-33.18	27.72	-10.05	1.38	H		0.043	16.29
		256QAM	-35.62	25.28	-10.05	1.38	H		0.024	13.85

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
816.5	LTE B26/ 5 MHz	QPSK	-30.82	29.92	-10.05	1.38	H	< 100	0.071	18.49
		16QAM	-32.05	28.69	-10.05	1.38	H		0.053	17.26
		64QAM	-33.07	27.67	-10.05	1.38	H		0.042	16.24
		256QAM	-35.55	25.19	-10.05	1.38	H		0.024	13.76
821.5		QPSK	-30.88	30.04	-10.05	1.38	H		0.073	18.61
		16QAM	-32.17	28.75	-10.05	1.38	H		0.054	17.32
		64QAM	-33.18	27.74	-10.05	1.38	H		0.043	16.31
		256QAM	-35.65	25.27	-10.05	1.38	H		0.024	13.84

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
819.0	LTE B26/ 10 MHz	QPSK	-30.79	29.95	-10.05	1.38	H	< 100	0.071	18.52
		16QAM	-32.09	28.65	-10.05	1.38	H		0.053	17.22
		64QAM	-33.08	27.66	-10.05	1.38	H		0.042	16.23
		256QAM	-35.52	25.22	-10.05	1.38	H		0.024	13.79

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
									W	W
821.5	LTE B26/ 15 MHz	QPSK	-30.77	30.15	-10.05	1.38	H	< 7.00	0.074	18.72
		16QAM	-32.04	28.88	-10.05	1.38	H		0.056	17.45
		64QAM	-33.00	27.92	-10.05	1.38	H		0.045	16.49
		256QAM	-35.54	25.38	-10.05	1.38	H		0.025	13.95

Note

1. Limit: None (for reporting purposes only)

9.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26
- ▣ MODULATION SIGNAL: 1.4 MHz QPSK
- ▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dB)
26697 (814.7)	1,629.40	-50.72	8.70	-58.64	1.93	H	-51.87	-13.00
	2,444.10	-47.87	10.20	-52.64	2.50	H	-44.94	-13.00
	3,258.80	-58.58	10.60	-60.01	2.85	H	-52.26	-13.00
26783 (823.3)	1,646.60	-49.44	9.20	-58.43	2.02	H	-51.25	-13.00
	2,469.90	-46.73	10.20	-50.87	2.49	H	-43.16	-13.00
	3,293.20	-58.70	10.60	-61.19	2.90	H	-53.49	-13.00

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Band 26	1.4 MHz	823.3	QPSK	6	0	1.0933
			16QAM			1.0977
			64QAM			1.0974
			256QAM			1.0970
	3 MHz	822.5	QPSK	15		2.7128
			16QAM			2.7140
			64QAM			2.7123
			256QAM			2.7066
	5 MHz	821.5	QPSK	25		4.5315
			16QAM			4.5131
			64QAM			4.5152
			256QAM			4.5209
	10 MHz	819.0	QPSK	50		9.0149
			16QAM			9.0265
			64QAM			9.0121
			256QAM			8.9914
	15 MHz	821.5	QPSK	75		13.465
			16QAM			13.466
			64QAM			13.477
			256QAM			13.467

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 143 ~ 162.

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	1.4	814.7	3.1830	27.976	-67.308	-39.332	-13.00
		823.3	3.7319	27.976	-66.962	-38.986	
	3	815.5	3.6910	27.976	-66.892	-38.916	
		822.5	3.1566	27.976	-67.042	-39.066	
	5	816.5	3.6845	27.976	-66.837	-38.861	
		821.5	3.7284	27.976	-67.335	-39.359	
	10	819.0	3.6880	27.976	-66.964	-38.988	
	15	821.5	3.6965	27.976	-66.965	-38.989	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 183 ~ 190.
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	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

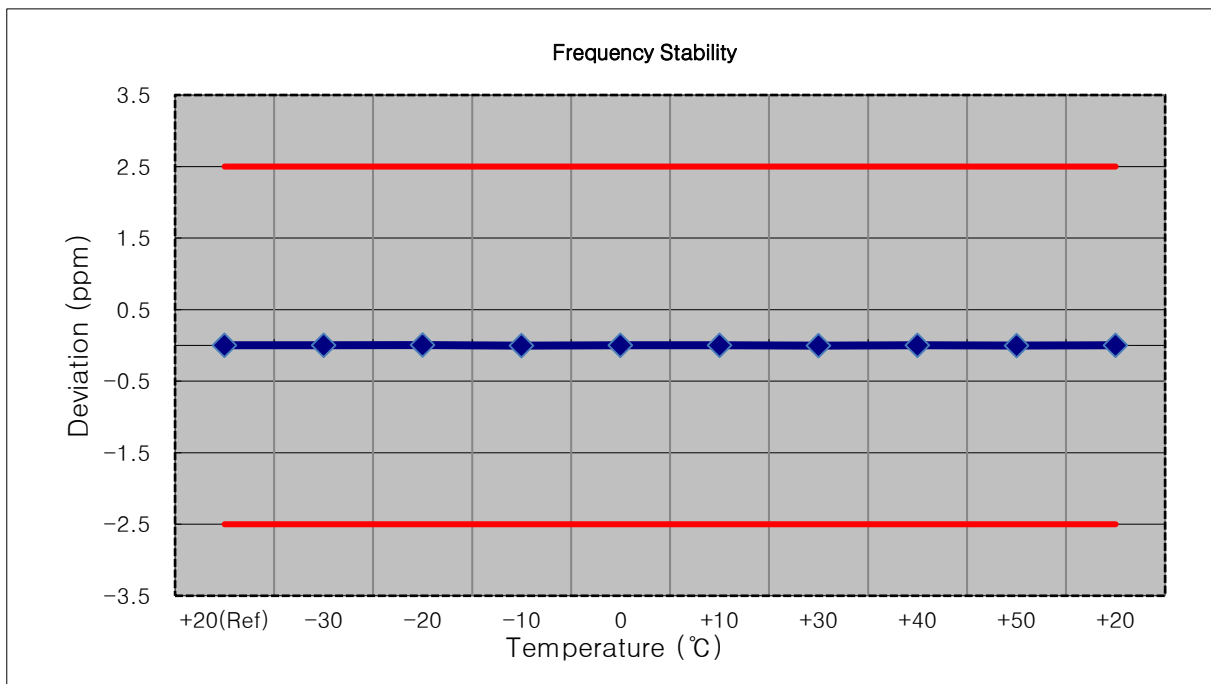
9.6 CHANNEL EDGE

- Plots of the EUT's Band Edge are shown Page 163 ~ 182.

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

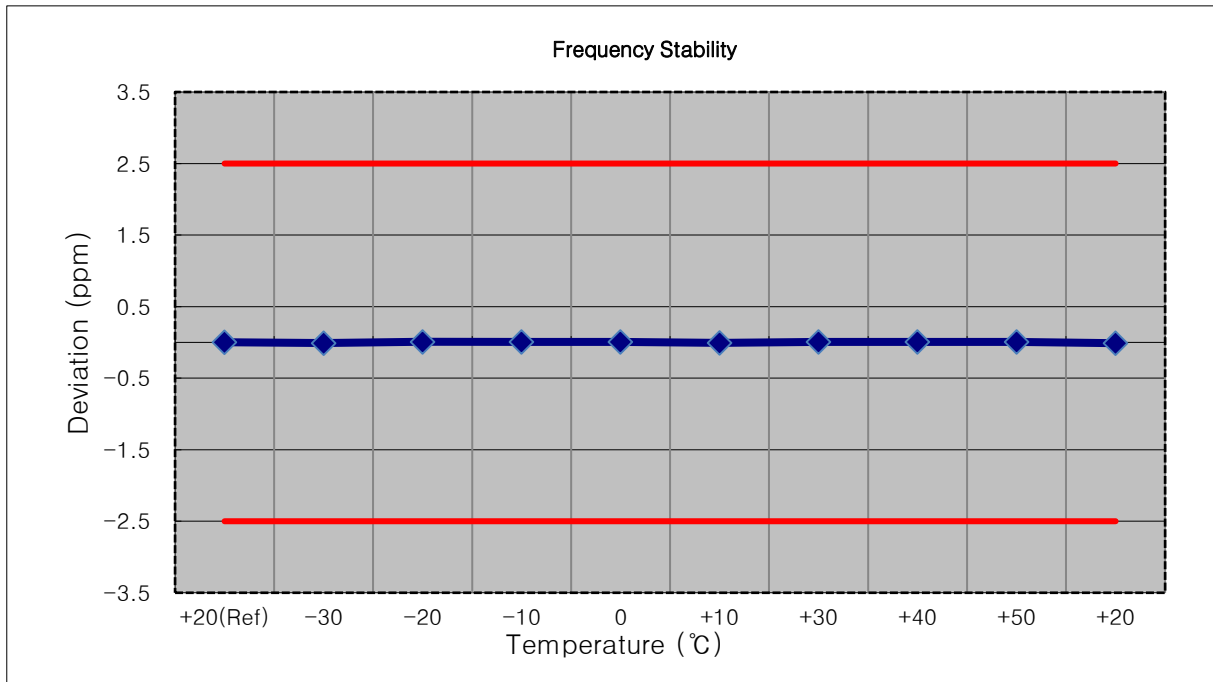
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 814,700,000 Hz
- ▣ CHANNEL: 26697(1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	814 699 999	0.0	0.000 000	0.000
100 %		-30	814 700 002	2.5	0.000 000	0.003
100 %		-20	814 700 003	3.7	0.000 000	0.005
100 %		-10	814 699 996	-2.8	0.000 000	-0.003
100 %		0	814 700 001	1.4	0.000 000	0.002
100 %		+10	814 700 003	3.3	0.000 000	0.004
100 %		+30	814 699 996	-2.8	0.000 000	-0.003
100 %		+40	814 700 001	2.2	0.000 000	0.003
100 %		+50	814 699 997	-1.8	0.000 000	-0.002
Batt. Endpoint		3.300	+20	814 700 001	2.1	0.000 000



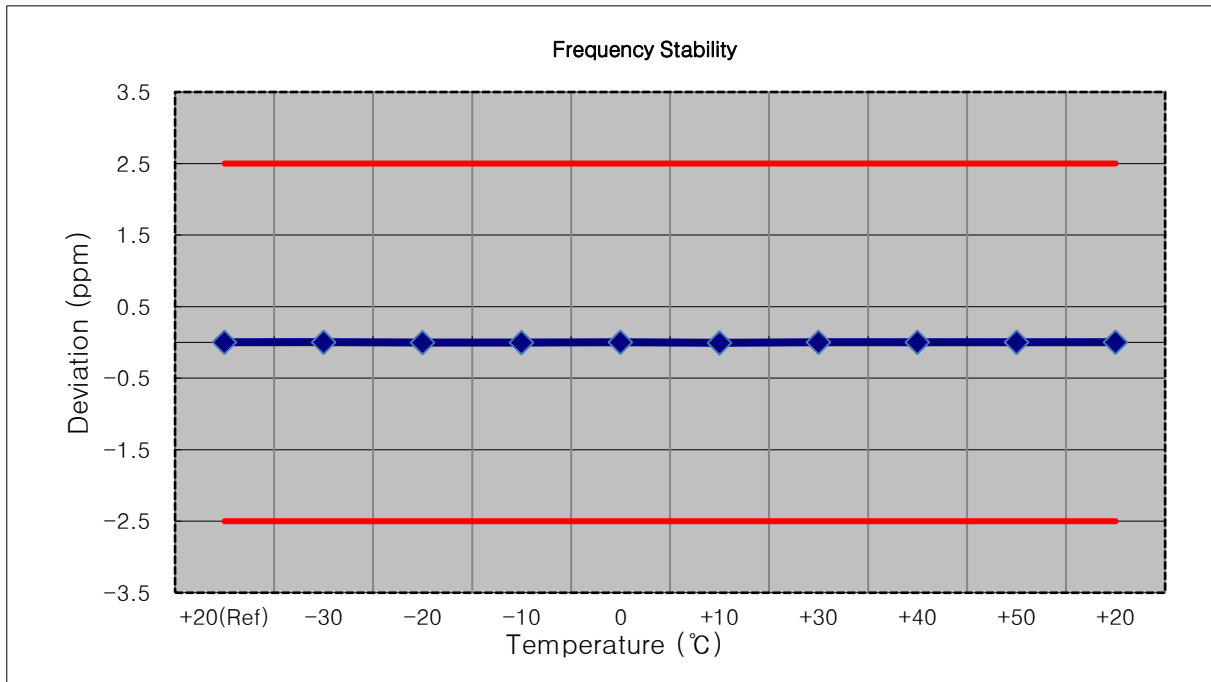
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 815,500,000 Hz
- ▣ CHANNEL: 26705(3 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	815 500 006	0.0	0.000 000	0.000
100 %		-30	815 499 999	-7.5	-0.000 001	-0.009
100 %		-20	815 500 013	7.3	0.000 001	0.009
100 %		-10	815 500 012	6.0	0.000 001	0.007
100 %		0	815 500 013	6.9	0.000 001	0.008
100 %		+10	815 499 999	-7.3	-0.000 001	-0.009
100 %		+30	815 500 011	5.2	0.000 001	0.006
100 %		+40	815 500 012	6.2	0.000 001	0.008
100 %		+50	815 500 012	6.3	0.000 001	0.008
Batt. Endpoint		3.300	+20	815 499 999	-7.4	-0.000 001



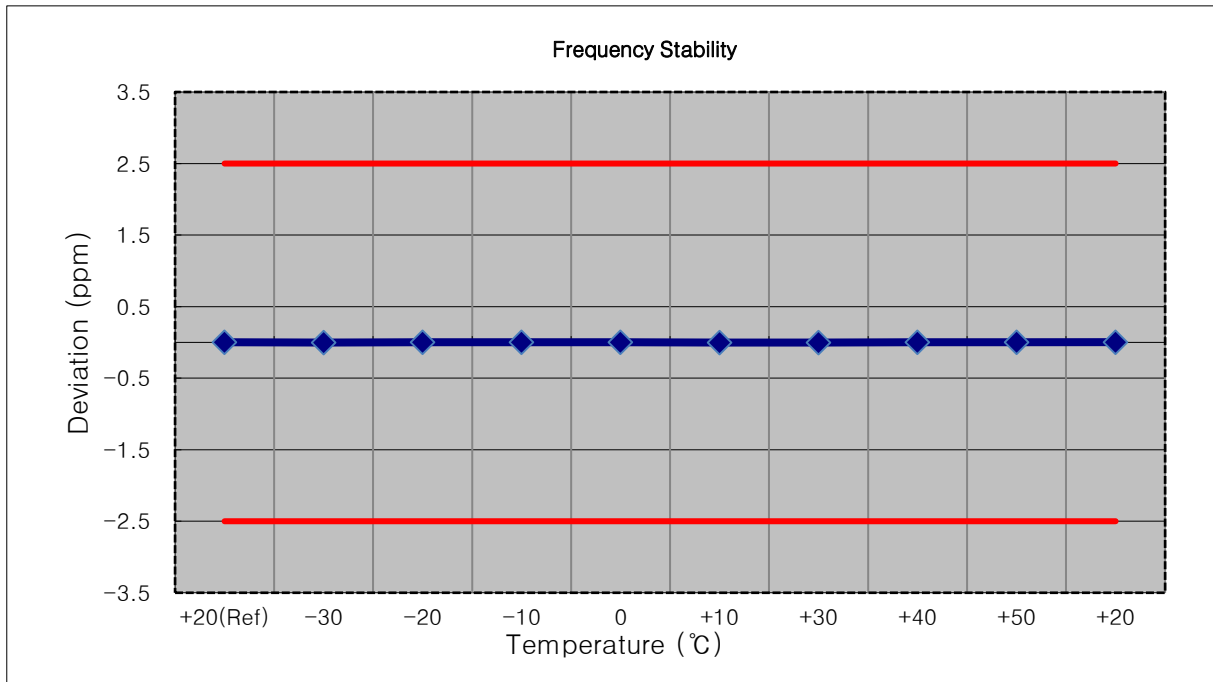
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 816,500,000 Hz
- ▣ CHANNEL: 26715(5 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	816 499 999	0.0	0.000 000	0.000
100 %		-30	816 500 002	2.9	0.000 000	0.004
100 %		-20	816 499 995	-3.4	0.000 000	-0.004
100 %		-10	816 499 996	-2.4	0.000 000	-0.003
100 %		0	816 500 001	1.9	0.000 000	0.002
100 %		+10	816 499 994	-4.5	-0.000 001	-0.006
100 %		+30	816 500 002	2.8	0.000 000	0.003
100 %		+40	816 500 001	2.1	0.000 000	0.003
100 %		+50	816 500 001	2.4	0.000 000	0.003
Batt. Endpoint		3.300	+20	816 500 001	2.4	0.000 000



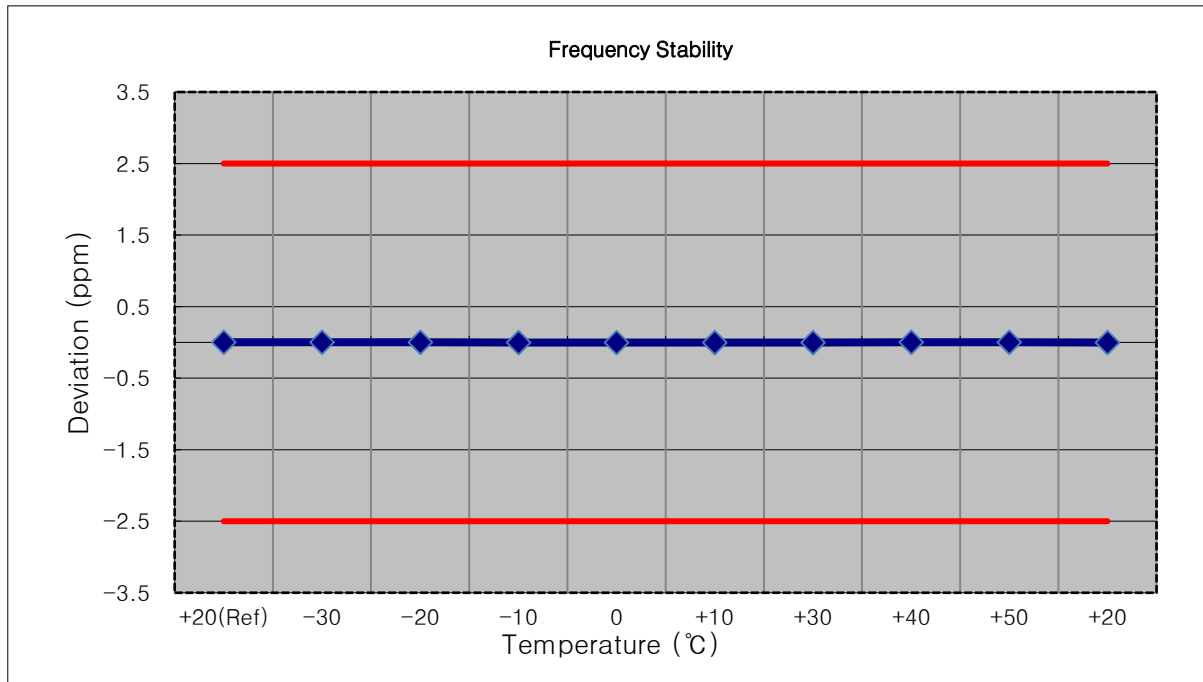
- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 819,000,000 Hz
- ▣ CHANNEL: 26740(10 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	819 000 004	0.0	0.000 000	0.000
100 %		-30	819 000 002	-1.3	0.000 000	-0.002
100 %		-20	819 000 005	1.5	0.000 000	0.002
100 %		-10	819 000 006	2.1	0.000 000	0.003
100 %		0	819 000 005	1.8	0.000 000	0.002
100 %		+10	819 000 002	-2.0	0.000 000	-0.002
100 %		+30	819 000 002	-1.2	0.000 000	-0.001
100 %		+40	819 000 005	1.7	0.000 000	0.002
100 %		+50	819 000 005	1.5	0.000 000	0.002
Batt. Endpoint		3.300	+20	819 000 006	2.6	0.000 000



- ▣ MODE: LTE 26
- ▣ OPERATING FREQUENCY: 821,500,000 Hz
- ▣ CHANNEL: 26765(15 MHz)
- ▣ REFERENCE VOLTAGE: 3.880 VDC
- ▣ DEVIATION LIMIT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.880	+20(Ref)	821 499 998	0.0	0.000 000	0.000
100 %		-30	821 500 000	1.5	0.000 000	0.002
100 %		-20	821 500 000	1.8	0.000 000	0.002
100 %		-10	821 499 997	-1.1	0.000 000	-0.001
100 %		0	821 499 997	-1.7	0.000 000	-0.002
100 %		+10	821 499 996	-2.0	0.000 000	-0.002
100 %		+30	821 499 997	-1.2	0.000 000	-0.001
100 %		+40	821 499 999	0.8	0.000 000	0.001
100 %		+50	821 499 999	1.1	0.000 000	0.001
Batt. Endpoint		3.300	+20	821 499 997	-1.4	0.000 000



9.8 STRADDLE CHANNEL

9.8.1 CONDUCTED OUTPUT POWER

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
1.4	QPSK	1	0	23.59	0.229	100
		1	3	23.50	0.224	100
		1	5	23.58	0.228	100
		3	0	23.58	0.228	100
		3	1	23.54	0.226	100
		3	3	23.55	0.226	100
		6	0	22.12	0.163	100
	16QAM	1	0	22.30	0.170	100
		1	3	22.21	0.166	100
		1	5	22.24	0.167	100
		3	0	22.15	0.164	100
		3	1	22.16	0.164	100
		3	3	22.17	0.165	100
		6	0	21.12	0.129	100
	64QAM	1	0	21.23	0.133	100
		1	3	21.20	0.132	100
		1	5	21.21	0.132	100
		3	0	21.22	0.132	100
		3	1	21.14	0.130	100
		3	3	21.17	0.131	100
		6	0	20.11	0.103	100
	256QAM	1	0	18.77	0.075	100
		1	3	18.67	0.074	100
		1	5	18.77	0.075	100
		3	0	18.72	0.074	100
		3	1	18.72	0.075	100
		3	3	18.72	0.074	100
		6	0	18.68	0.074	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
3	QPSK	1	0	23.66	0.232	100
		1	7	23.74	0.237	100
		1	14	23.60	0.229	100
		8	0	22.20	0.166	100
		8	3	22.24	0.167	100
		8	7	22.22	0.167	100
		15	0	22.21	0.166	100
	16QAM	1	0	22.33	0.171	100
		1	7	22.32	0.170	100
		1	14	22.29	0.169	100
		8	0	21.21	0.132	100
		8	3	21.27	0.134	100
		8	7	21.19	0.132	100
		15	0	21.19	0.132	100
	64QAM	1	0	21.36	0.137	100
		1	7	21.34	0.136	100
		1	14	21.33	0.136	100
		8	0	20.18	0.104	100
		8	3	20.25	0.106	100
		8	7	20.22	0.105	100
		15	0	20.22	0.105	100
	256QAM	1	0	18.86	0.077	100
		1	7	18.86	0.077	100
		1	14	18.79	0.076	100
		8	0	18.77	0.075	100
		8	3	18.77	0.075	100
		8	7	18.72	0.074	100
		15	0	18.75	0.075	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
5	QPSK	1	0	23.64	0.231	100
		1	12	23.70	0.234	100
		1	24	23.61	0.230	100
		12	0	22.19	0.166	100
		12	6	22.17	0.165	100
		12	11	22.18	0.165	100
		25	0	22.22	0.167	100
	16QAM	1	0	22.42	0.175	100
		1	12	22.27	0.169	100
		1	24	22.24	0.167	100
		12	0	21.22	0.132	100
		12	6	21.19	0.132	100
		12	11	21.18	0.131	100
		25	0	21.16	0.131	100
	64QAM	1	0	21.38	0.137	100
		1	12	21.28	0.134	100
		1	24	21.28	0.134	100
		12	0	20.21	0.105	100
		12	6	20.19	0.104	100
		12	11	20.20	0.105	100
		25	0	20.20	0.105	100
	256QAM	1	0	18.86	0.077	100
		1	12	18.82	0.076	100
		1	24	18.86	0.077	100
		12	0	18.72	0.075	100
		12	6	18.74	0.075	100
		12	11	18.74	0.075	100
		25	0	18.77	0.075	100

Band Width	Modulation	RB Size	RB Offset	Max. output power(dBm)		Limit (W)
				824 MHz		
				dBm	W	
10	QPSK	1	0	23.82	0.241	100
		1	24	23.71	0.235	100
		1	49	23.59	0.229	100
		25	0	22.30	0.170	100
		25	12	22.25	0.168	100
		25	24	22.25	0.168	100
		50	0	22.27	0.169	100
	16QAM	1	0	22.42	0.175	100
		1	24	22.30	0.170	100
		1	49	22.30	0.170	100
		25	0	21.29	0.135	100
		25	12	21.23	0.133	100
		25	24	21.20	0.132	100
		50	0	21.22	0.132	100
	64QAM	1	0	21.37	0.137	100
		1	24	21.33	0.136	100
		1	49	21.31	0.135	100
		25	0	20.23	0.106	100
		25	12	20.22	0.105	100
		25	24	20.18	0.104	100
		50	0	20.29	0.107	100
	256QAM	1	0	18.98	0.079	100
		1	24	18.85	0.077	100
		1	49	18.86	0.077	100
		25	0	18.82	0.076	100
		25	12	18.79	0.076	100
		25	24	18.76	0.075	100
		50	0	18.81	0.076	100

9.8.2 EFFECTIVE RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 1.4 MHz	QPSK	-31.08	29.82	-10.05	1.38	H	< 7.00	0.069	18.39
		16QAM	-32.37	28.53	-10.05	1.38	H		0.051	17.10
		64QAM	-33.42	27.48	-10.05	1.38	H		0.040	16.05
		256QAM	-35.87	25.03	-10.05	1.38	H		0.023	13.60

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 3 MHz	QPSK	-31.02	29.88	-10.05	1.38	H	< 7.00	0.070	18.45
		16QAM	-32.38	28.52	-10.05	1.38	H		0.051	17.09
		64QAM	-33.35	27.55	-10.05	1.38	H		0.041	16.12
		256QAM	-35.80	25.10	-10.05	1.38	H		0.023	13.67

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 5 MHz	QPSK	-31.00	29.90	-10.05	1.38	H	< 7.00	0.070	18.47
		16QAM	-32.29	28.61	-10.05	1.38	H		0.052	17.18
		64QAM	-33.23	27.67	-10.05	1.38	H		0.042	16.24
		256QAM	-35.76	25.14	-10.05	1.38	H		0.024	13.71

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP	
								W	W	dBm
824.0	LTE B26/ 10 MHz	QPSK	-30.79	30.11	-10.05	1.38	H	< 7.00	0.074	18.68
		16QAM	-32.11	28.79	-10.05	1.38	H		0.055	17.36
		64QAM	-33.11	27.79	-10.05	1.38	H		0.043	16.36
		256QAM	-35.65	25.25	-10.05	1.38	H		0.024	13.82

9.8.3 RADIATED SPURIOUS EMISSIONS

- ▣ MODE: LTE B26
- ▣ MODULATION SIGNAL: 10 MHz QPSK
- ▣ DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dB)
26790 (824.0)	1 648.00	-49.84	9.58	-60.24	2.14	H	-52.80	-13.00
	2 472.00	-50.98	10.26	-55.46	2.66	H	-47.86	-13.00
	3 296.00	-57.82	12.13	-58.95	3.02	V	-49.83	-13.00

9.8.4 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
26	1.4	824.0	3.7099	27.976	-67.317	-39.341	-13.00
	3		3.7074	27.976	-66.998	-39.022	
	5		3.6845	27.976	-67.057	-39.081	
	10		3.6835	27.976	-67.040	-39.064	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page192 ~ 195.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor (dB) = Cable Loss + Attenuator + Power Splitter

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

9.8.5 CHANNEL EDGE(Part90)

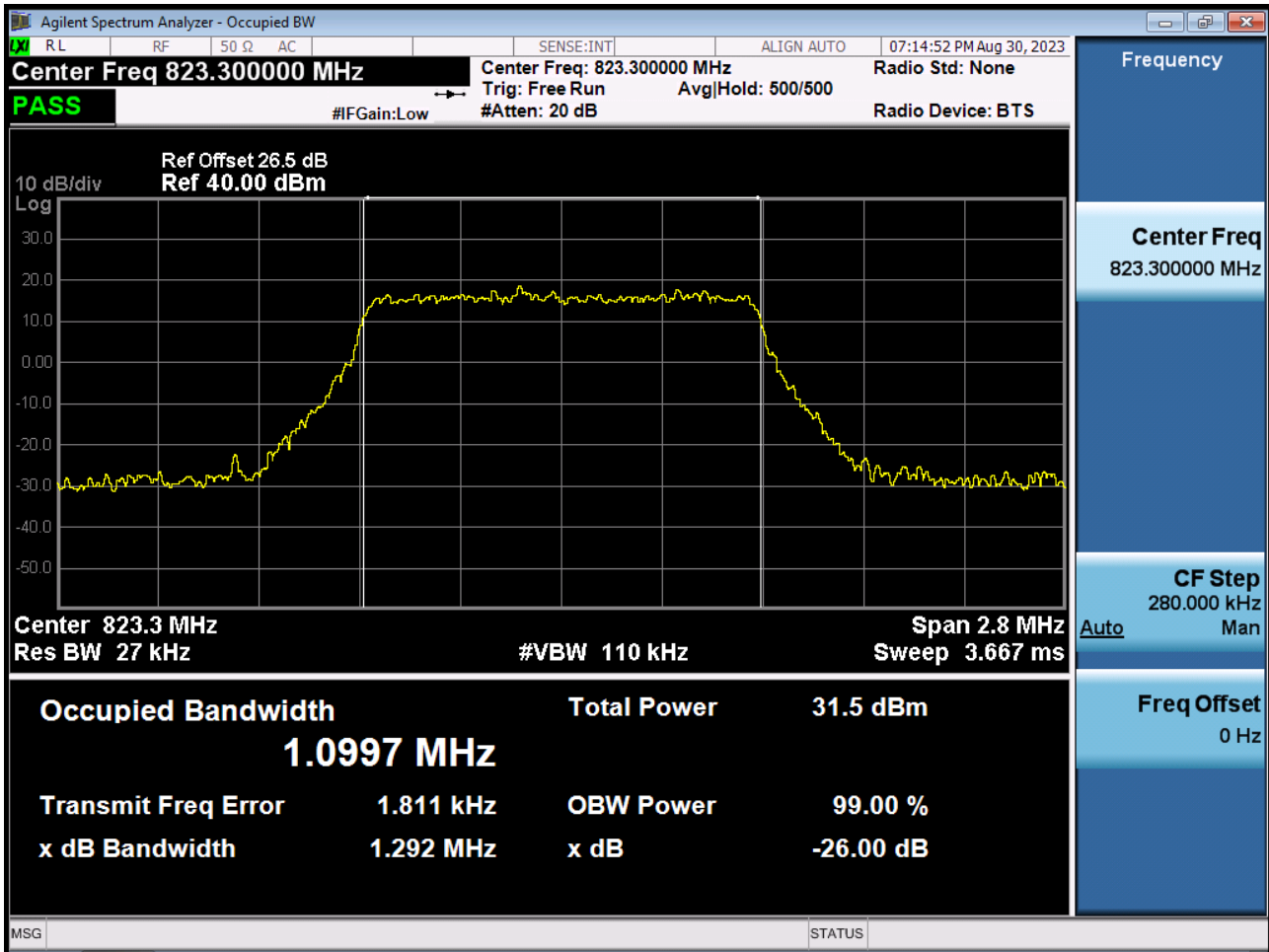
- Test Channel : 26790(824.0MHz)
- Plots of the EUT's Channel Edge are shown Page 196 ~ 207.

9.8.6 BAND EDGE(Part22)

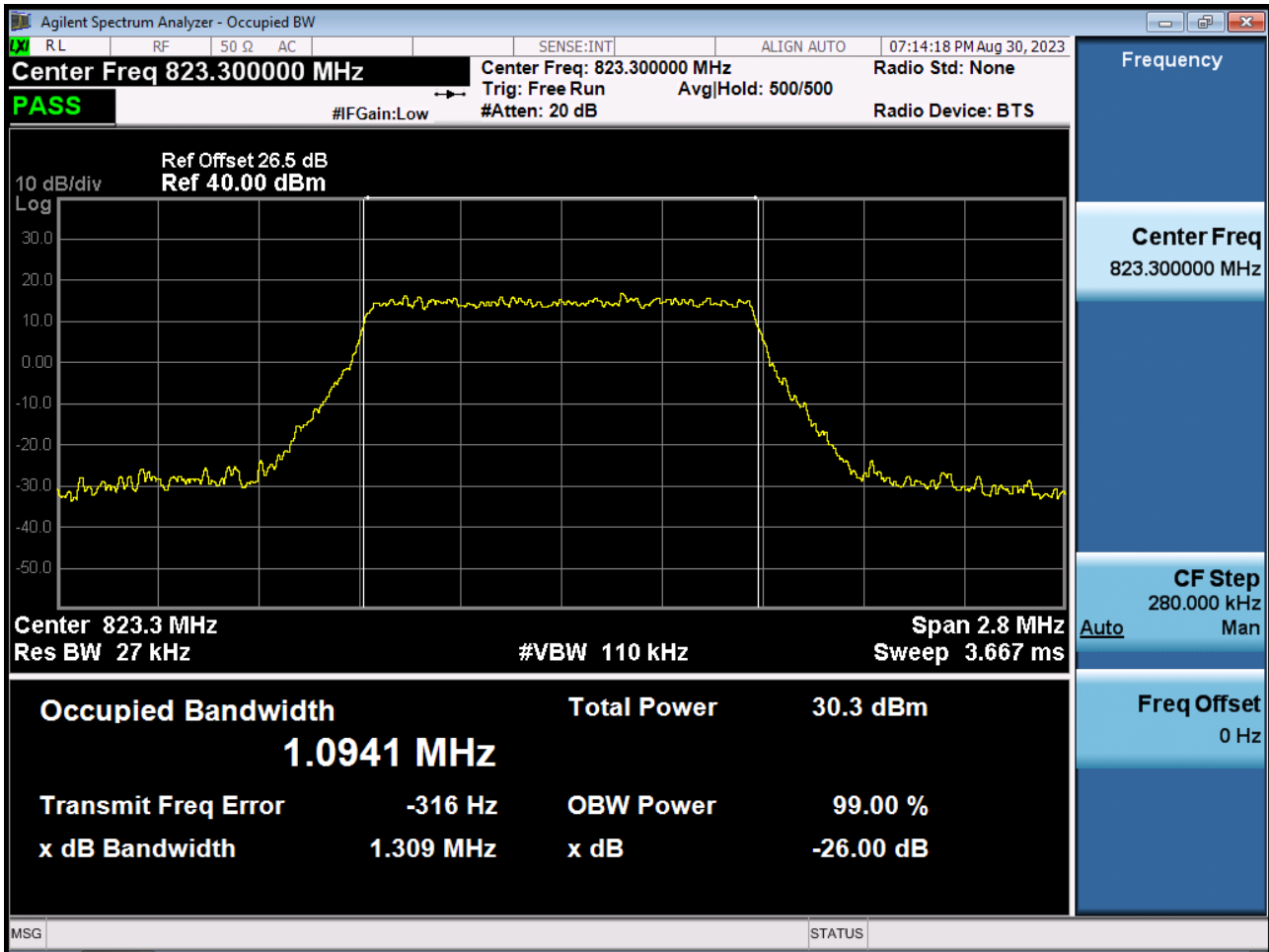
- Test Channel : 26790(824.0 MHz)
- Plots of the EUT's Band Edge are shown Page 208 ~ 215.

10. TEST PLOTS(Main 1 Ant)

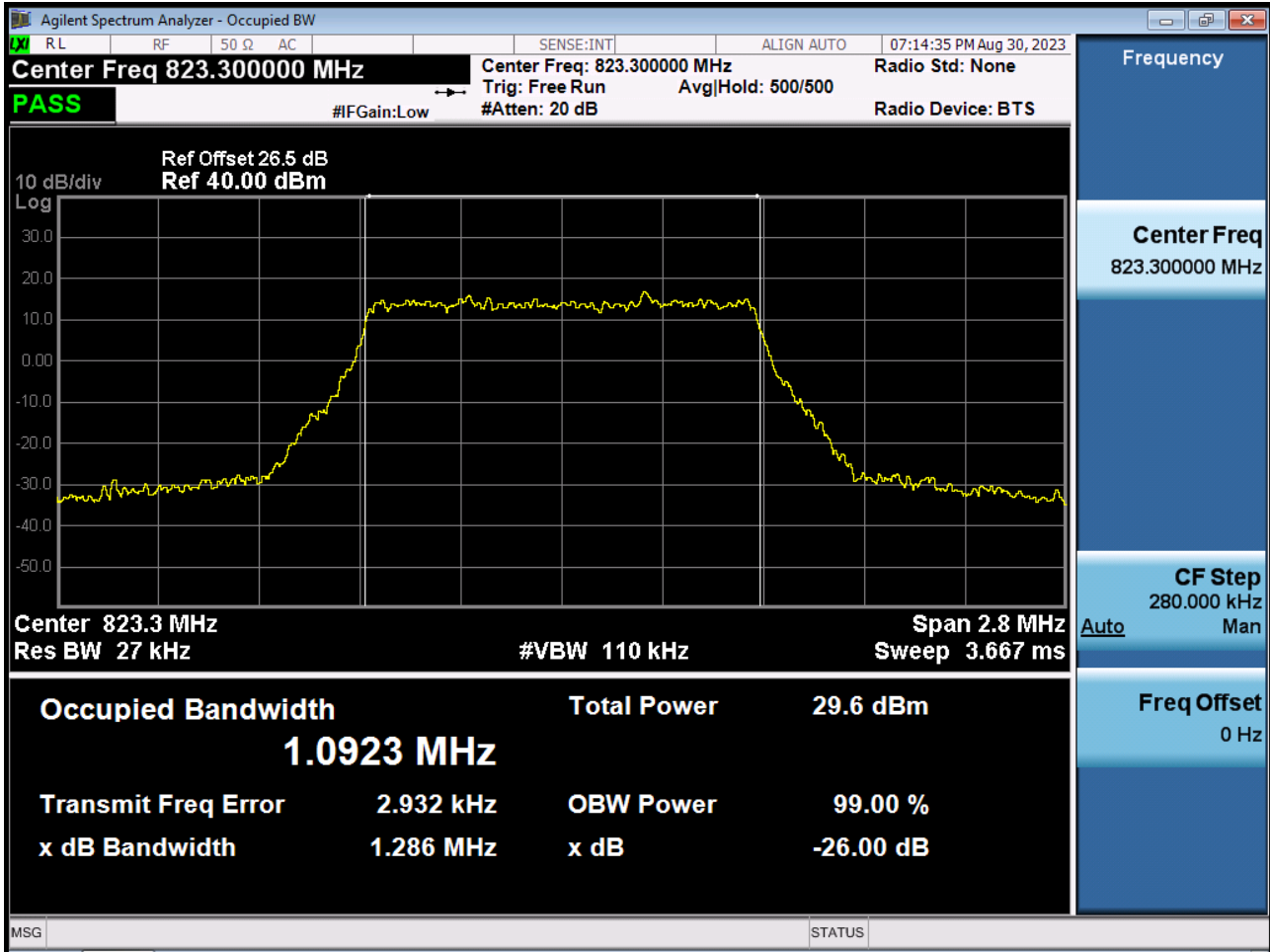
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 QPSK RB 6_0)



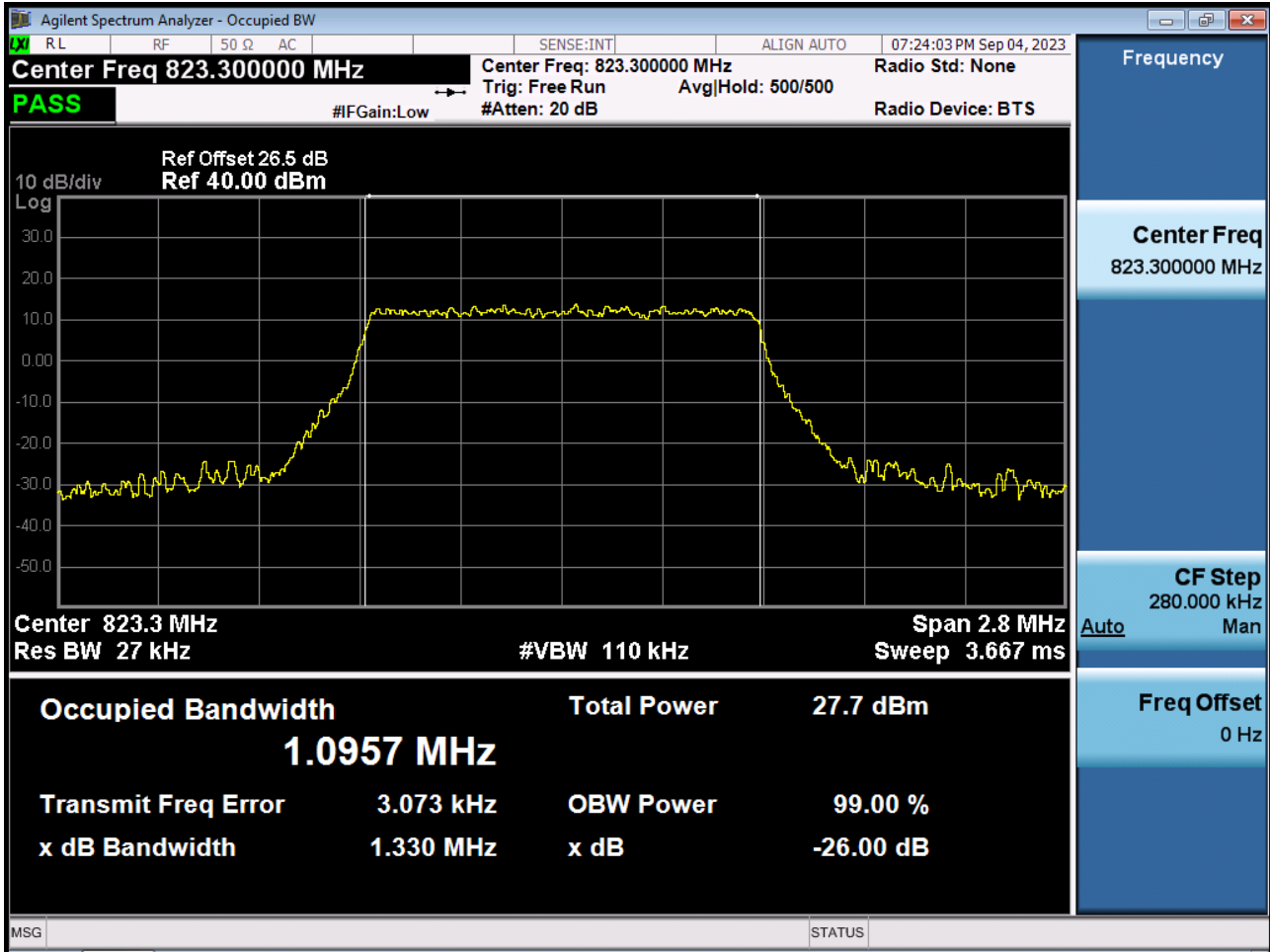
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 16QAM RB 6_0)



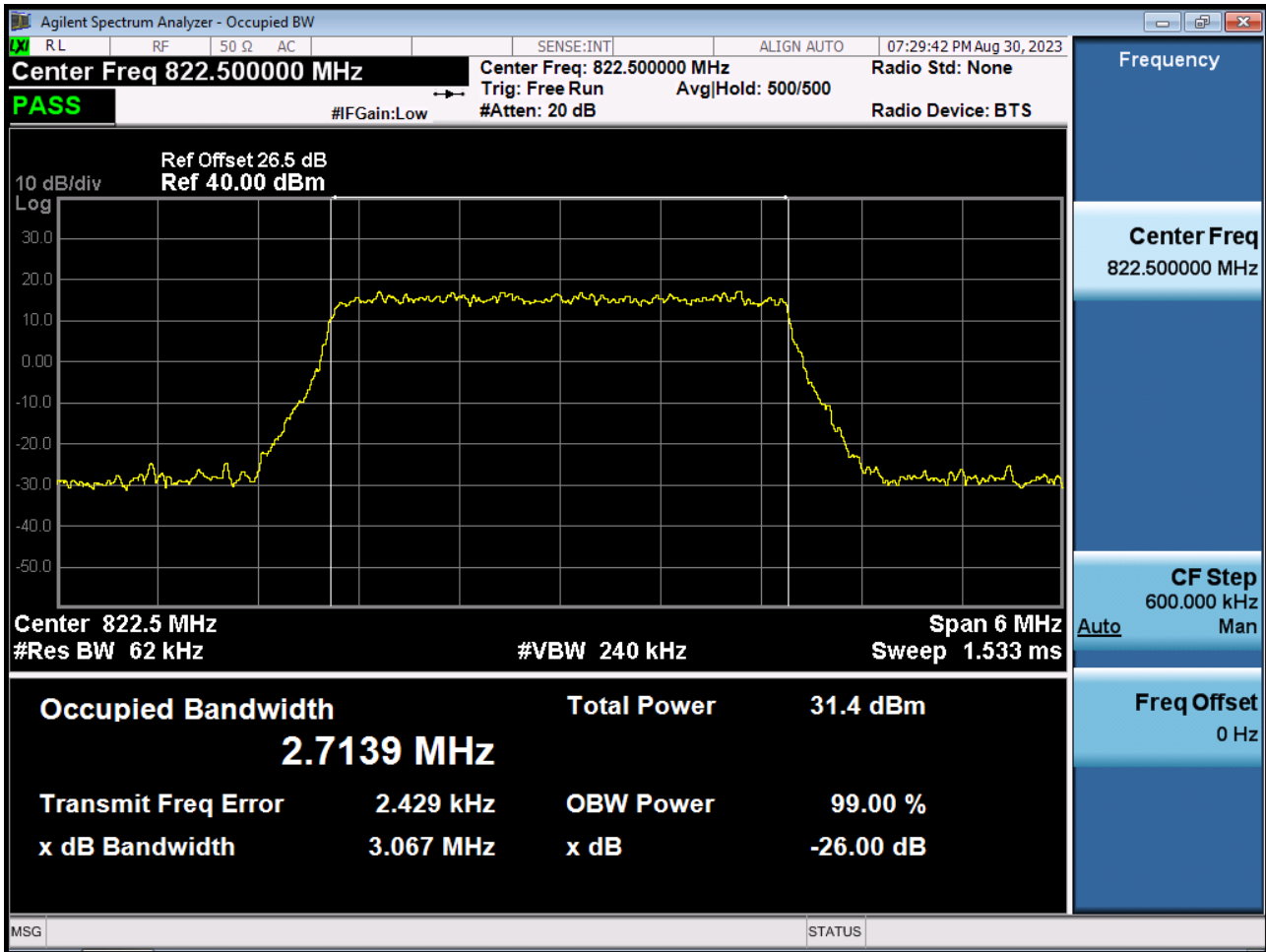
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 64QAM RB 6_0)



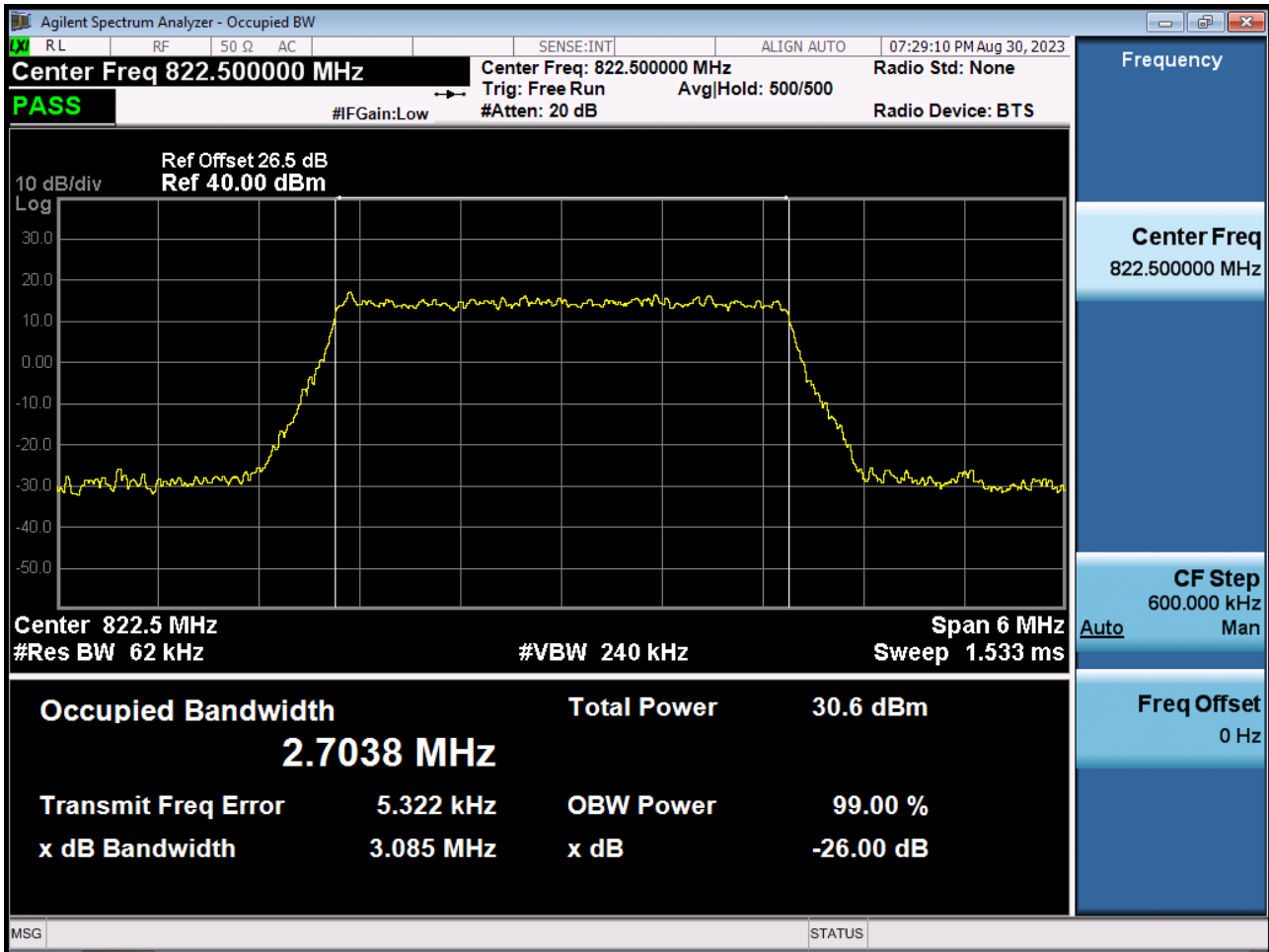
BAND 26. Occupied Bandwidth Plot (1.4 M BW Ch.26783 256QAM RB 6_0)



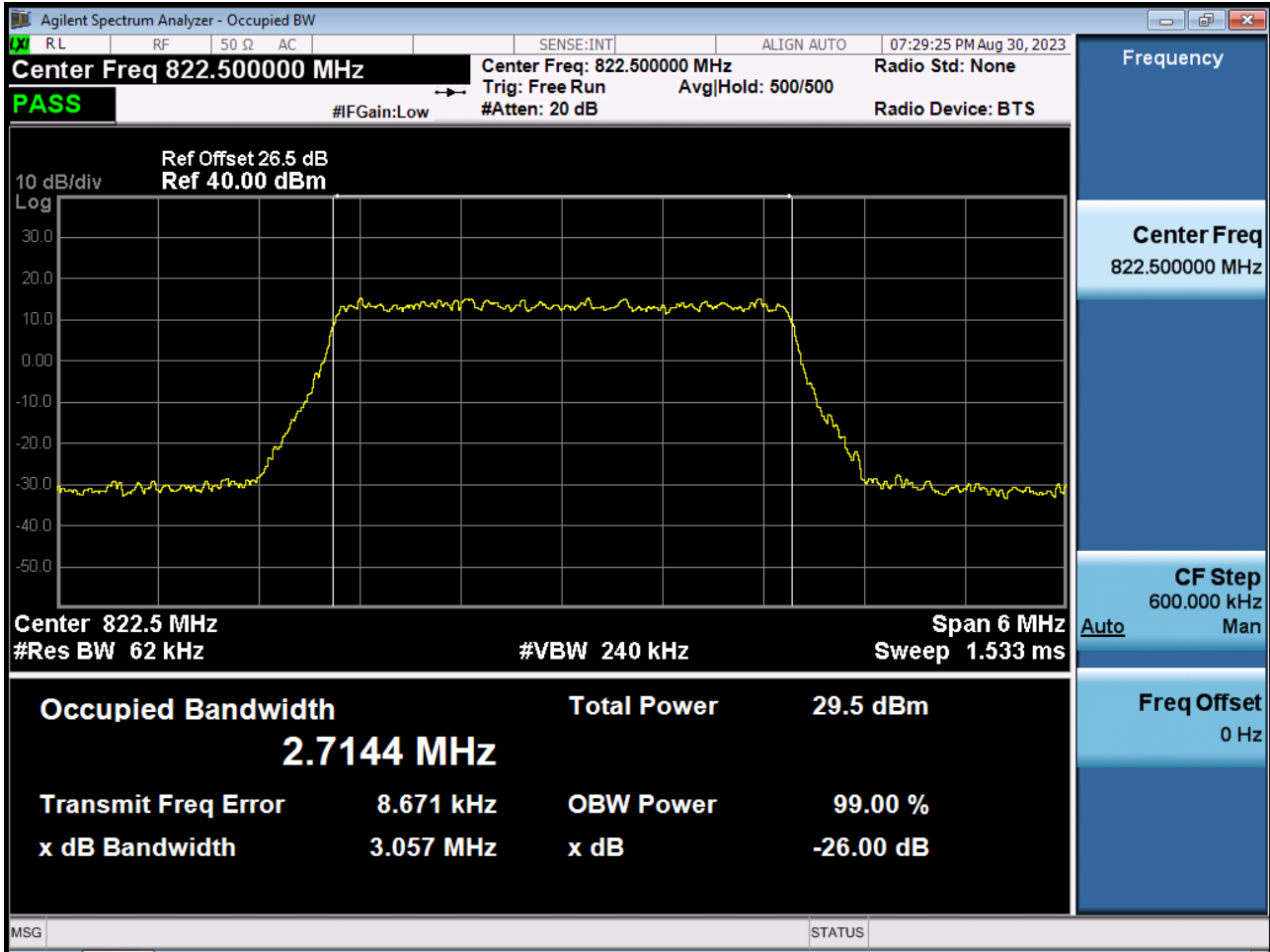
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 QPSK RB 15_0)



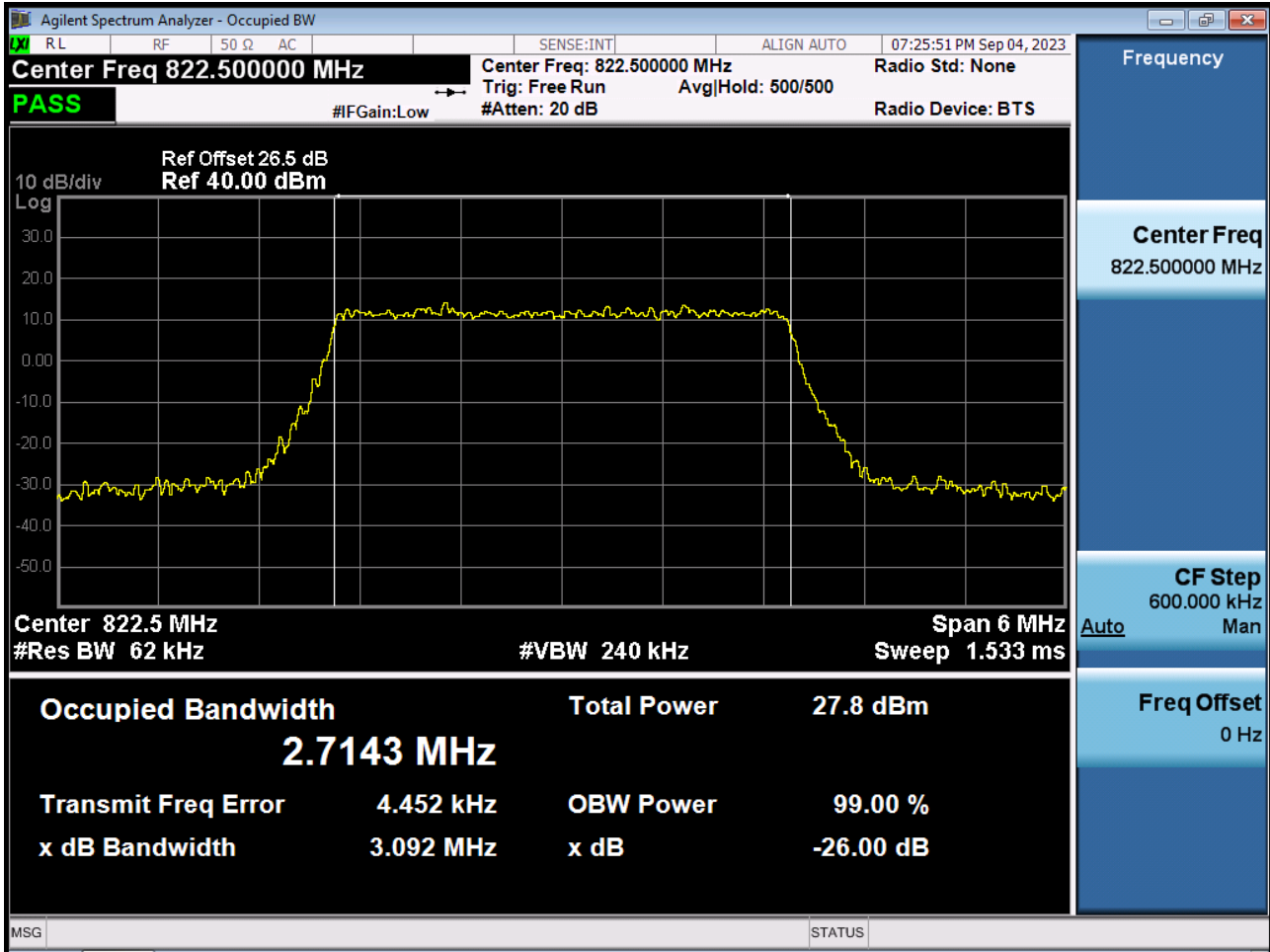
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 16QAM RB 15_0)



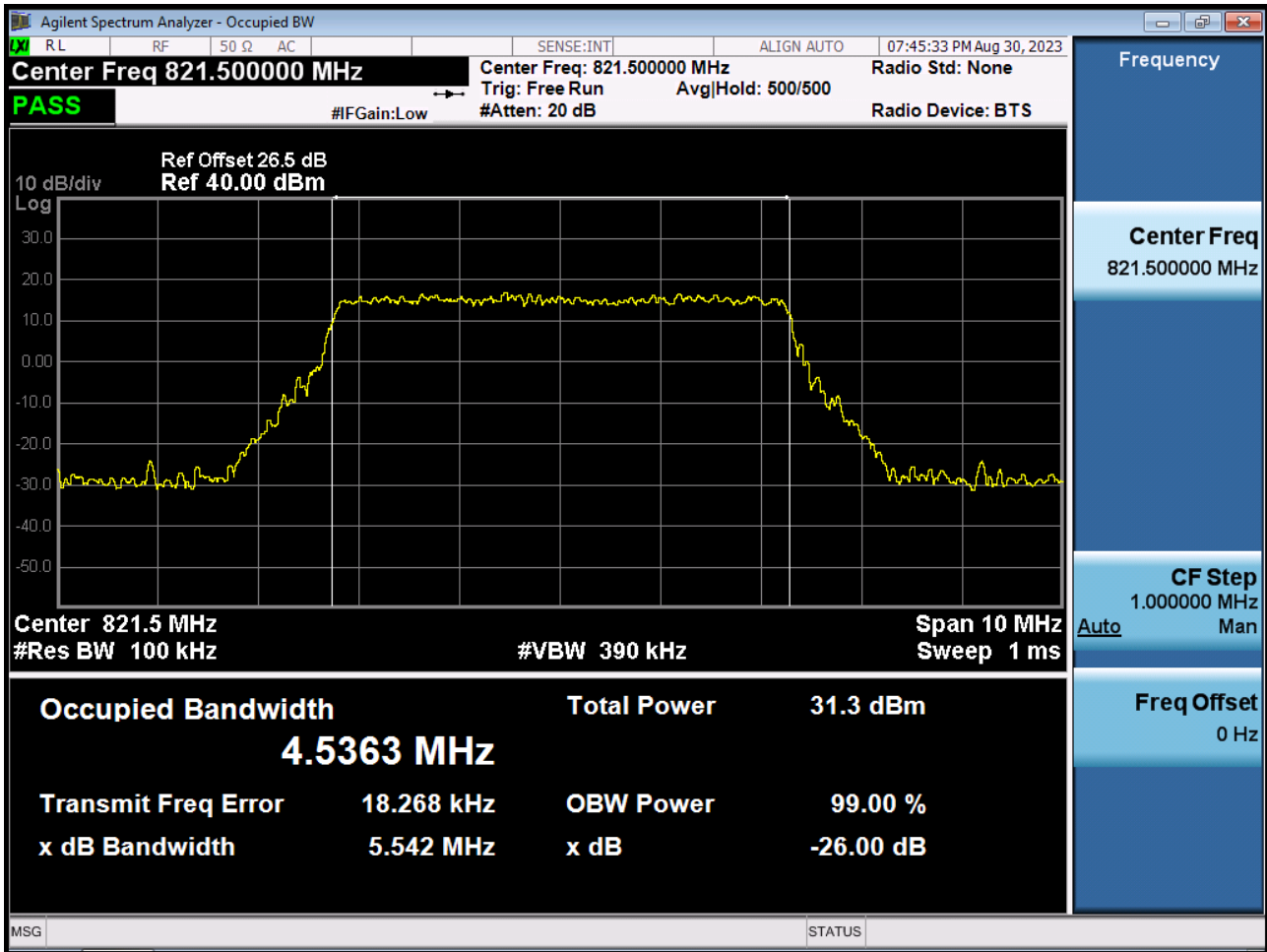
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 64QAM RB 15_0)



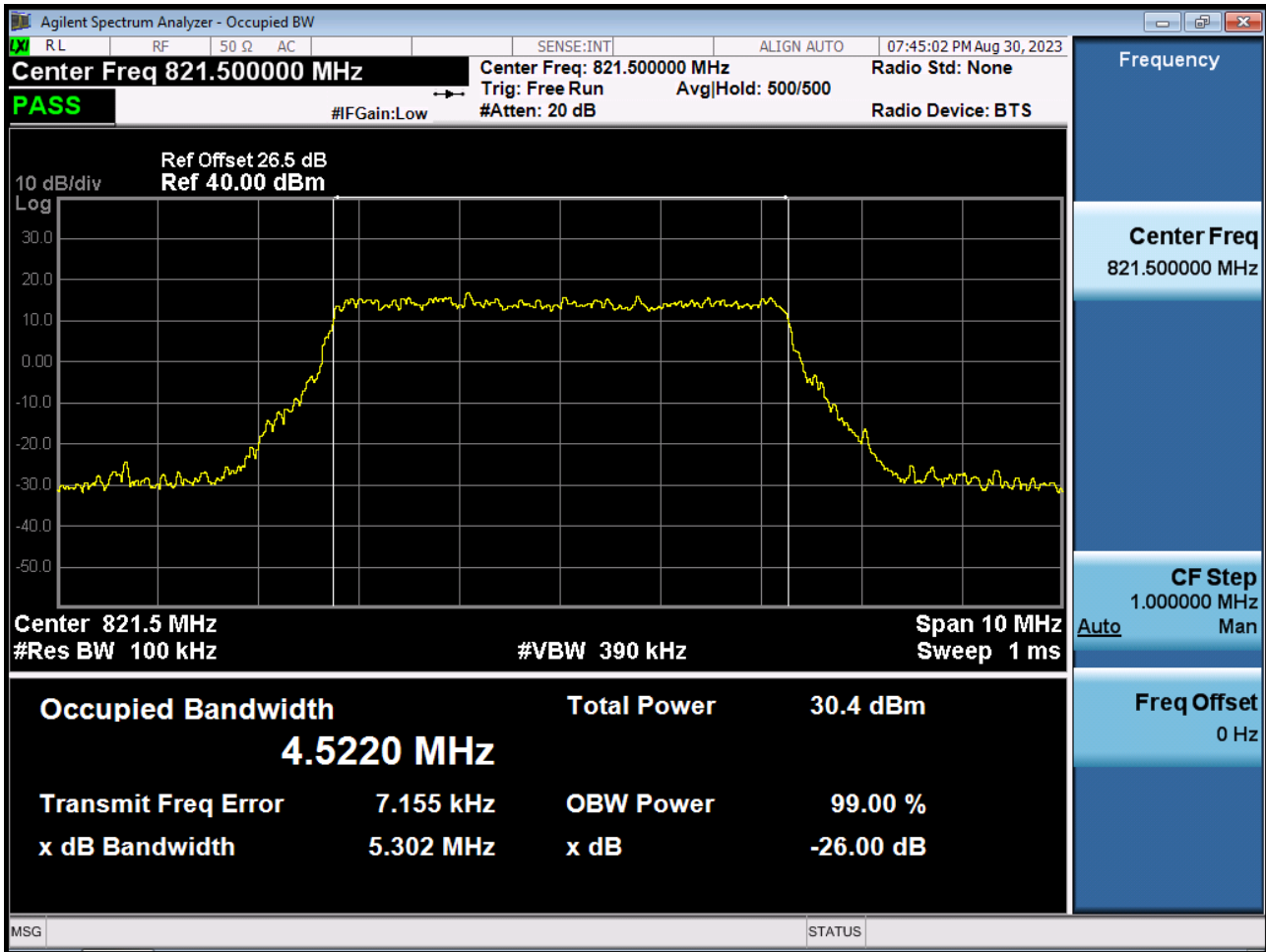
BAND 26. Occupied Bandwidth Plot (3 M BW Ch.26775 256QAM RB 15_0)



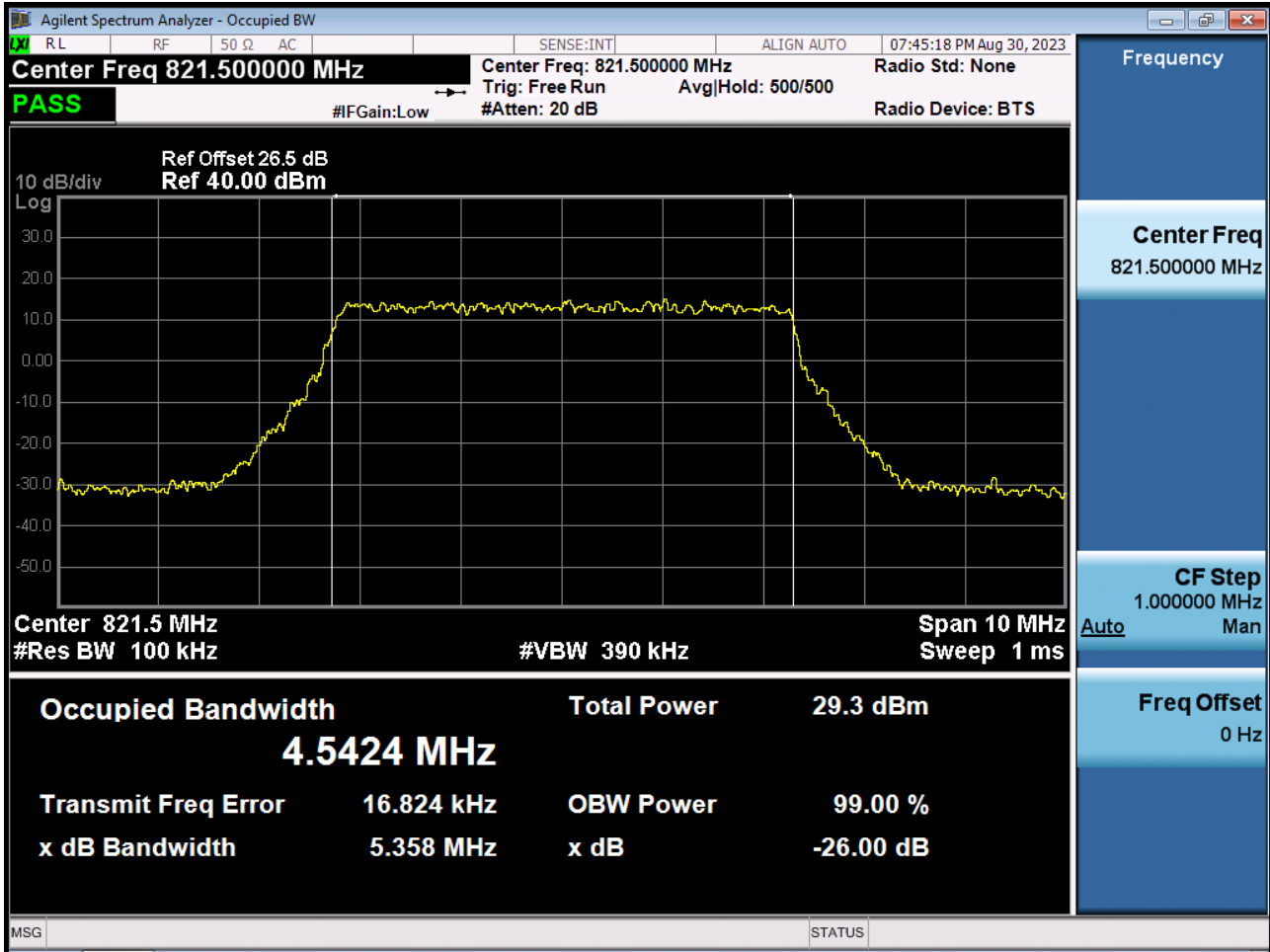
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 QPSK RB 25_0)



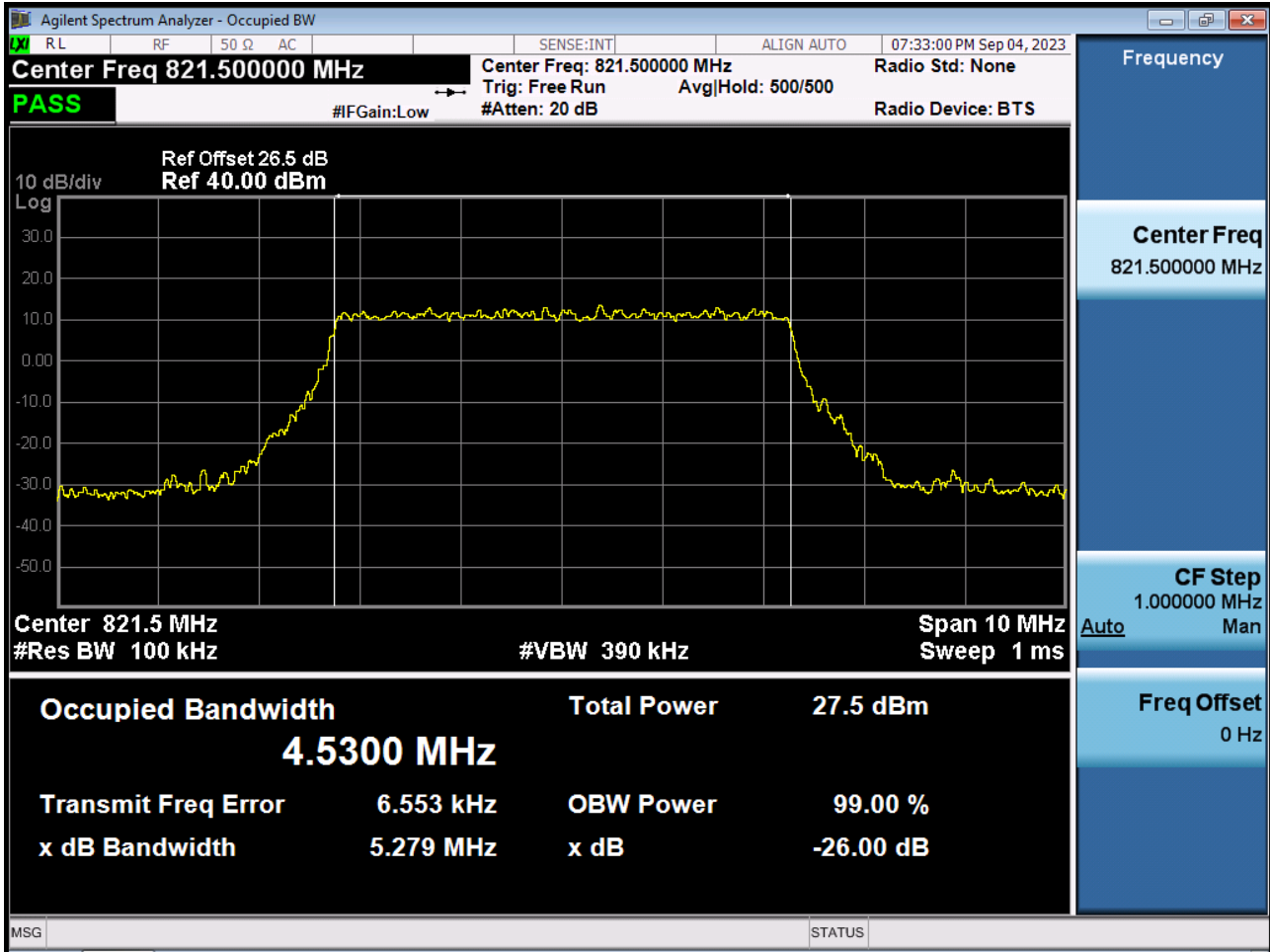
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 16QAM RB 25_0)



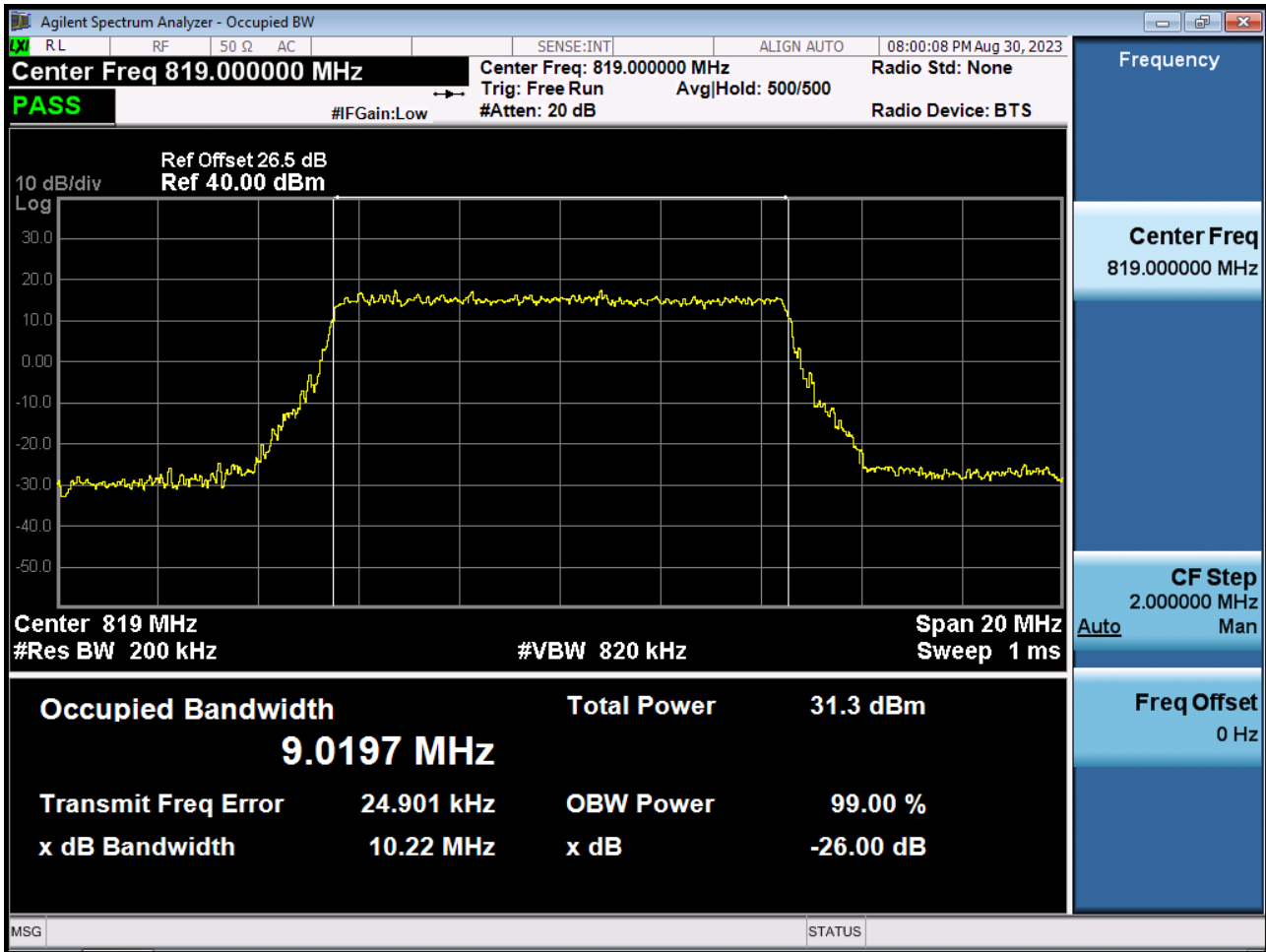
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 64QAM RB 25_0)



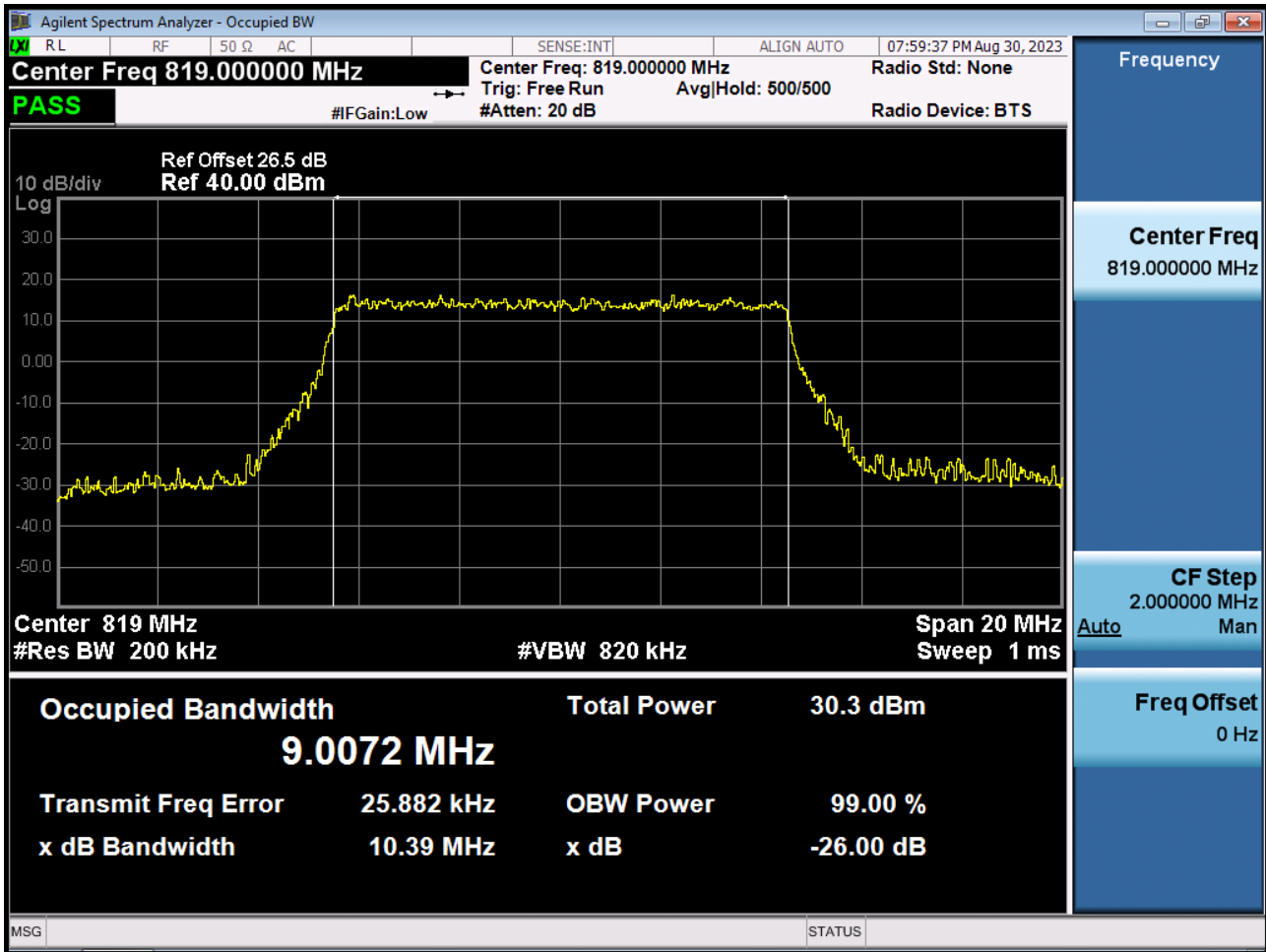
BAND 26. Occupied Bandwidth Plot (5 M BW Ch.26765 256QAM RB 25_0)



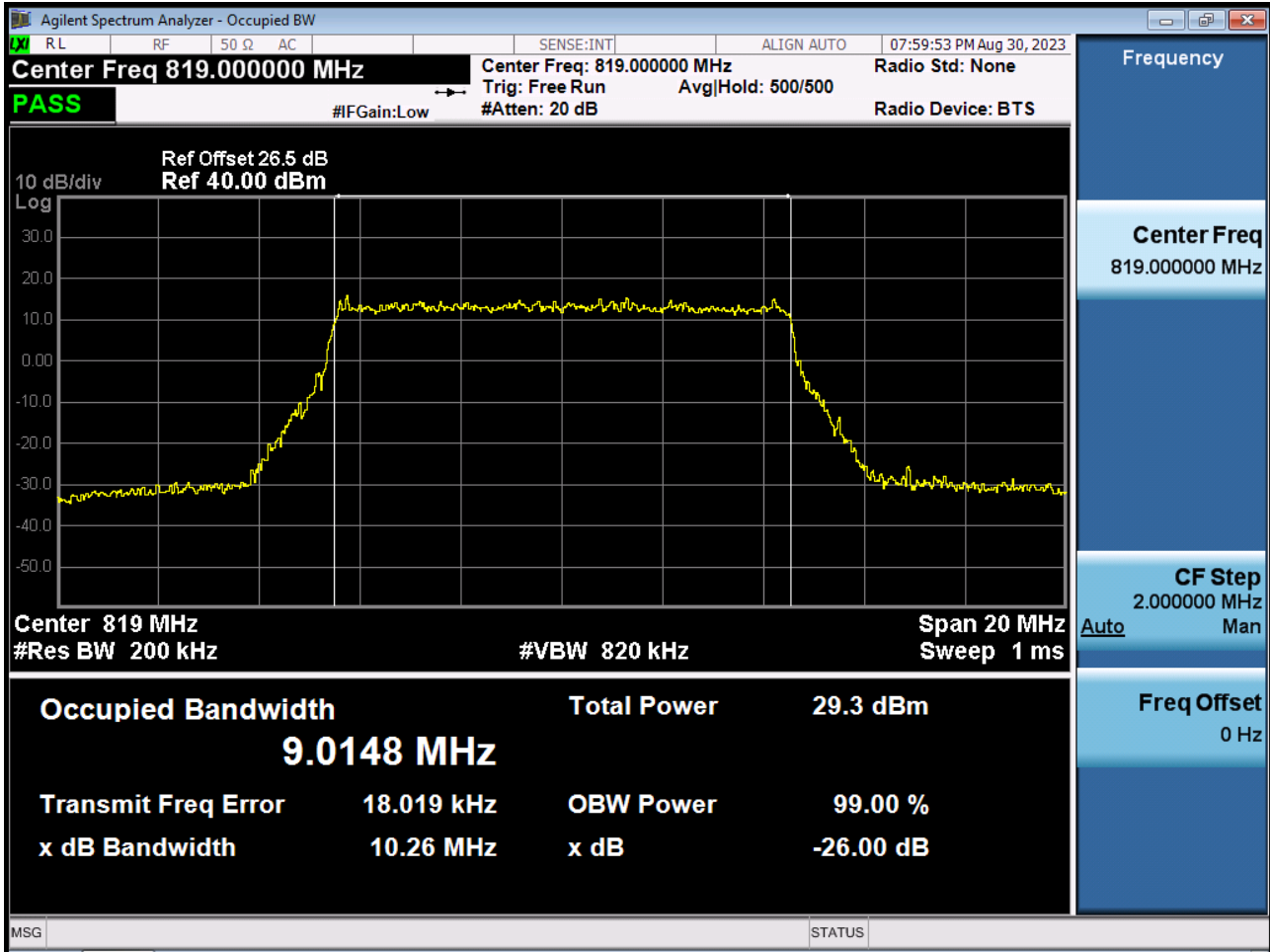
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 QPSK RB 50_0)



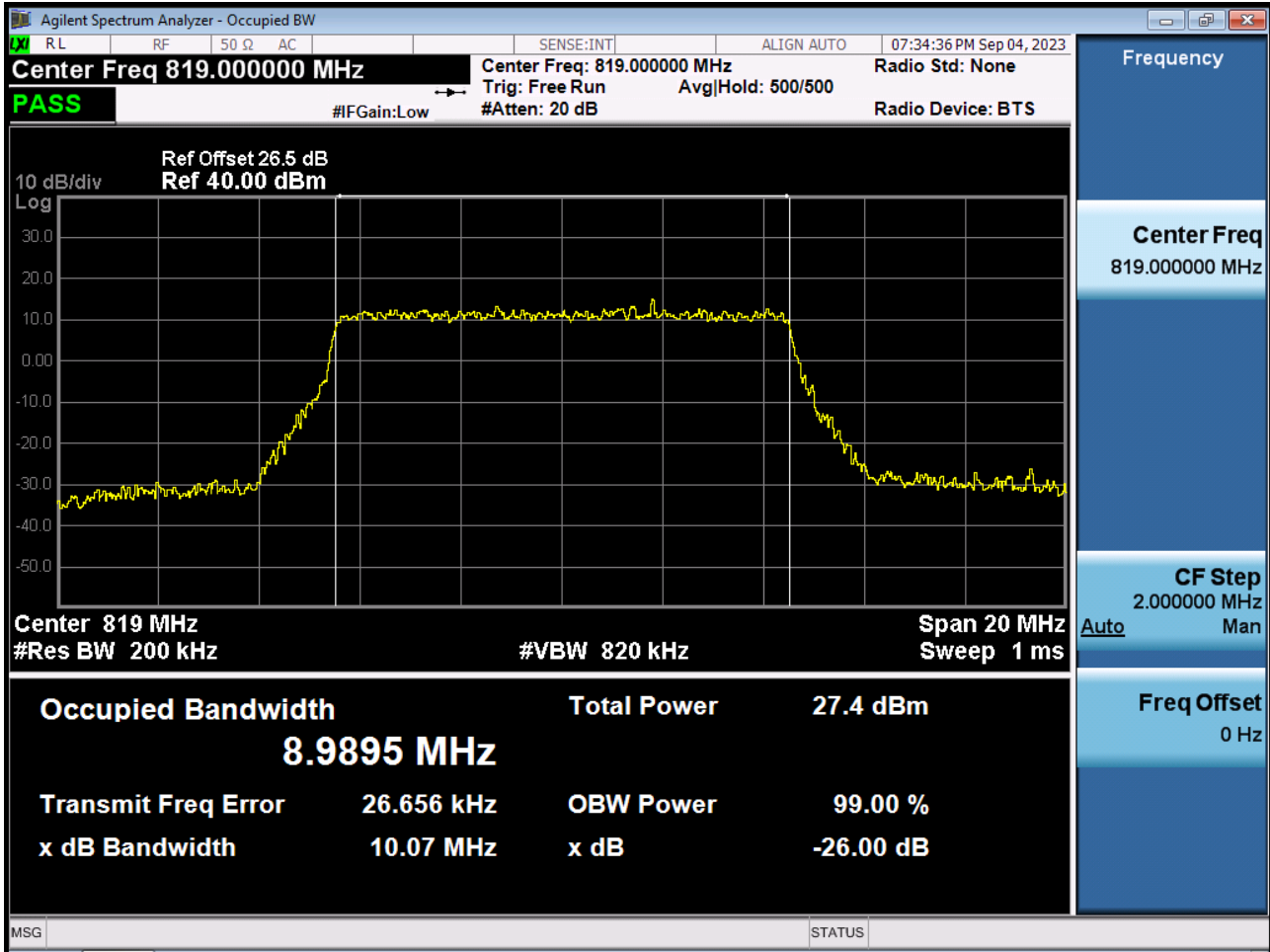
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 16QAM RB 50_0)



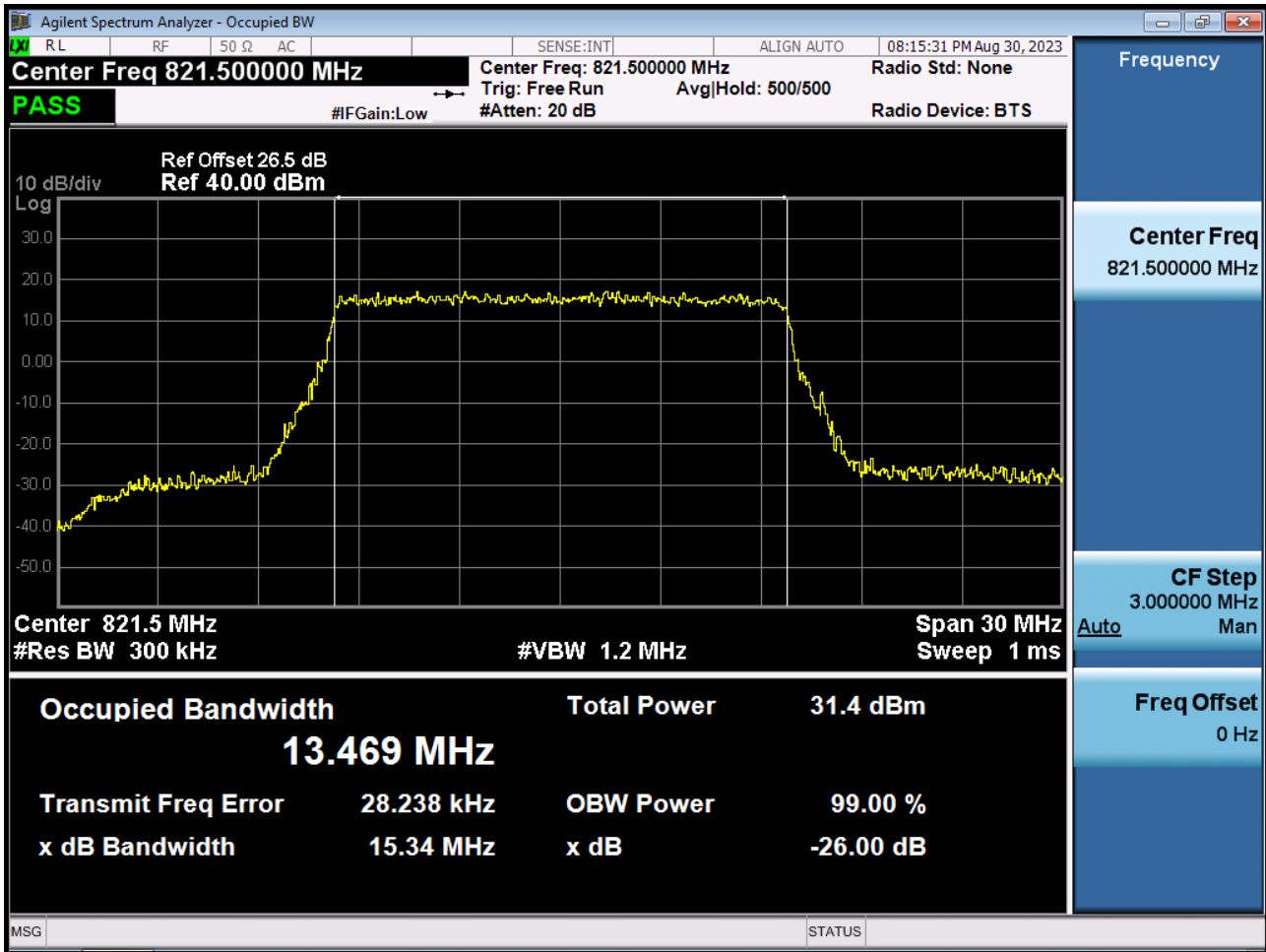
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 64QAM RB 50_0)



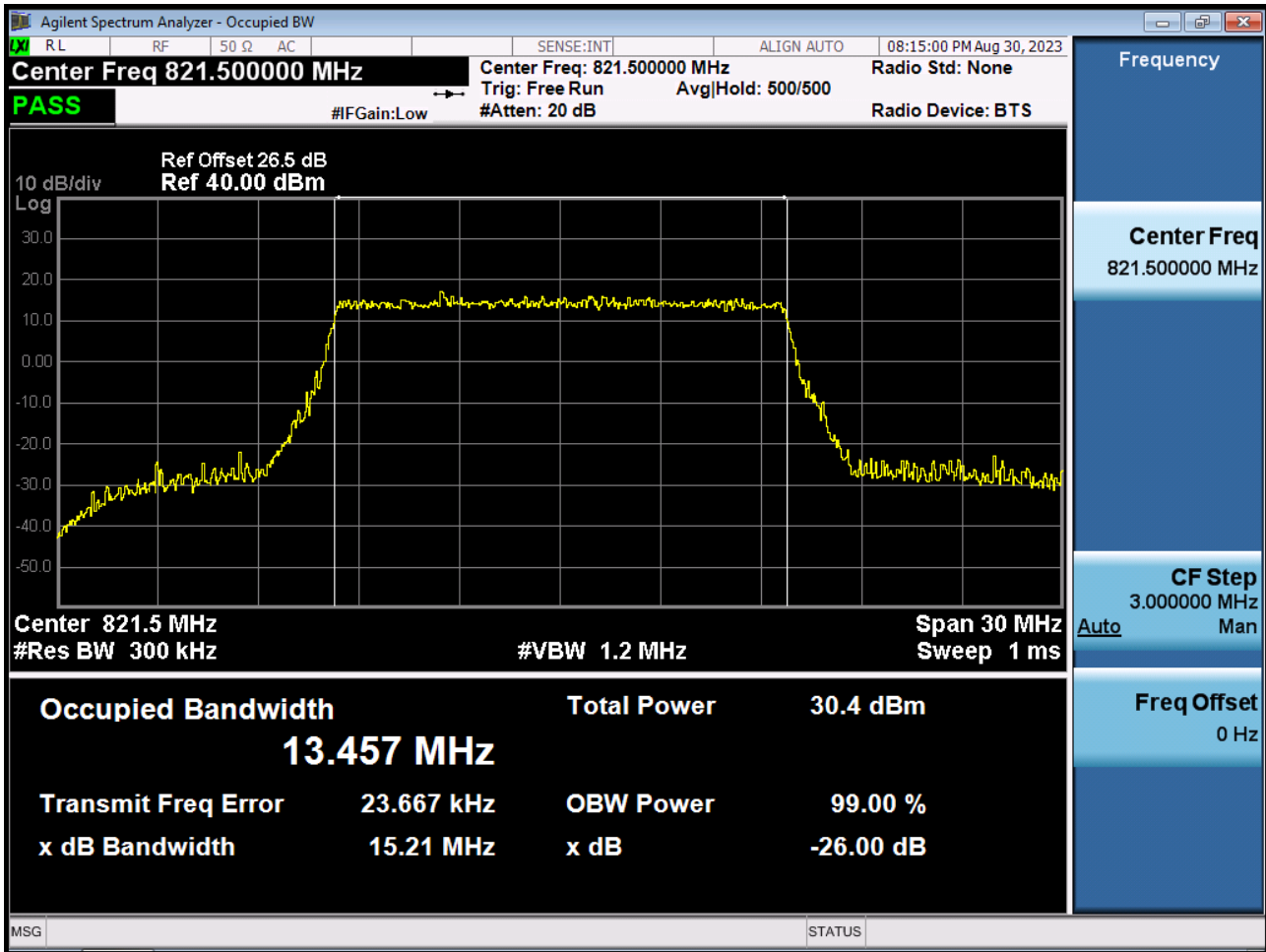
BAND 26. Occupied Bandwidth Plot (10 M BW Ch.26740 256QAM RB 50_0)



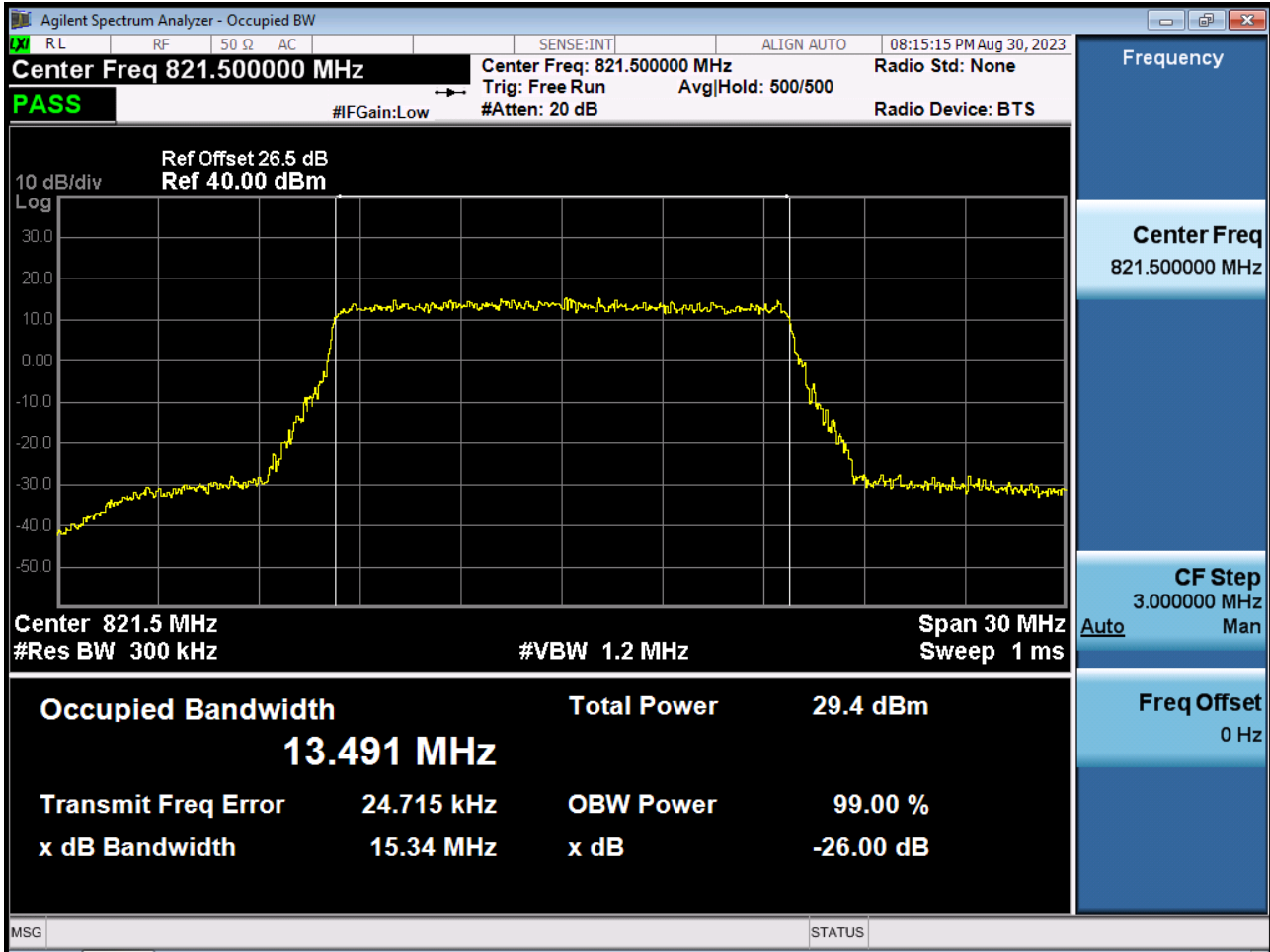
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 QPSK RB 75_0)



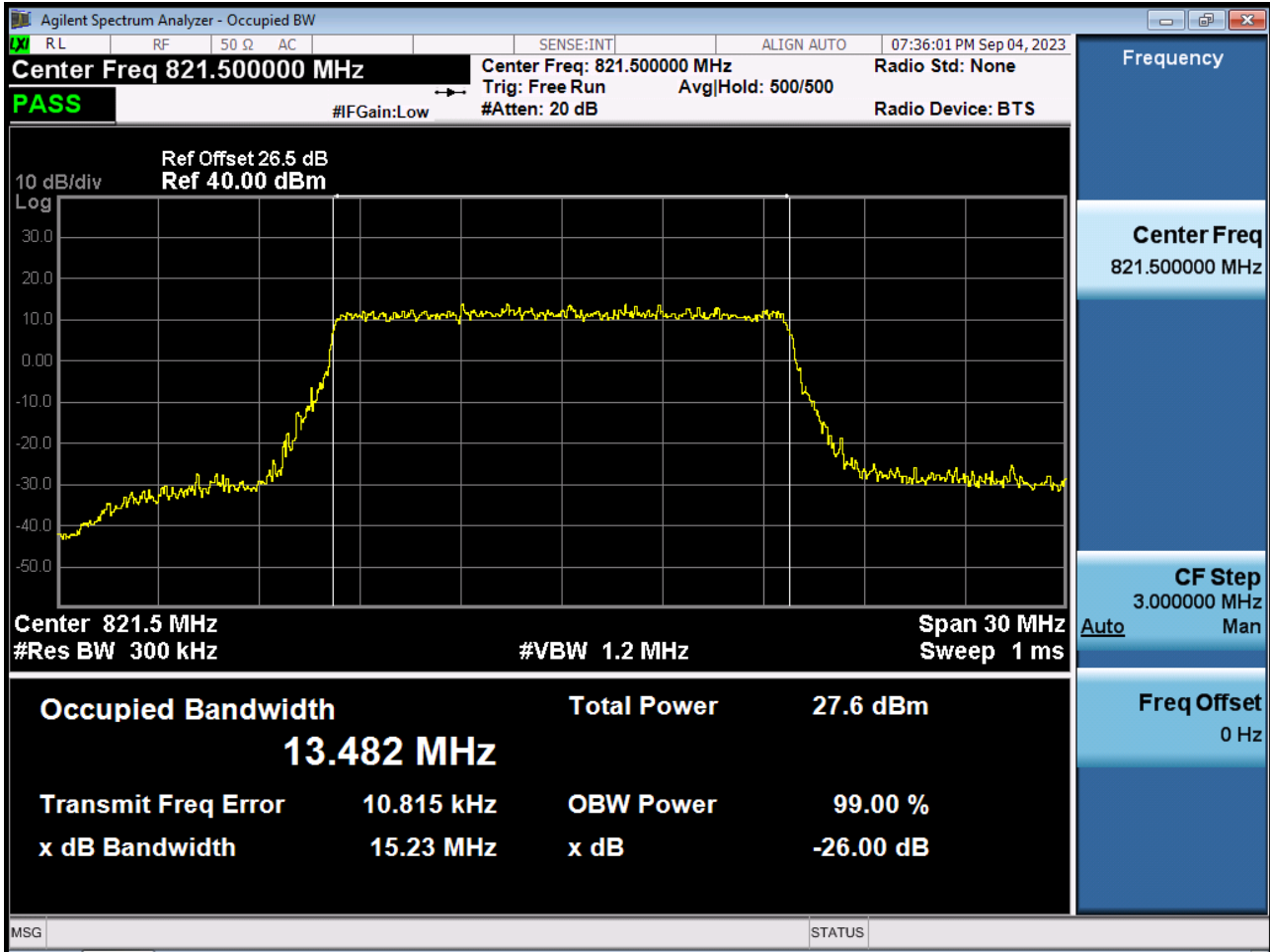
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 16QAM RB 75_0)



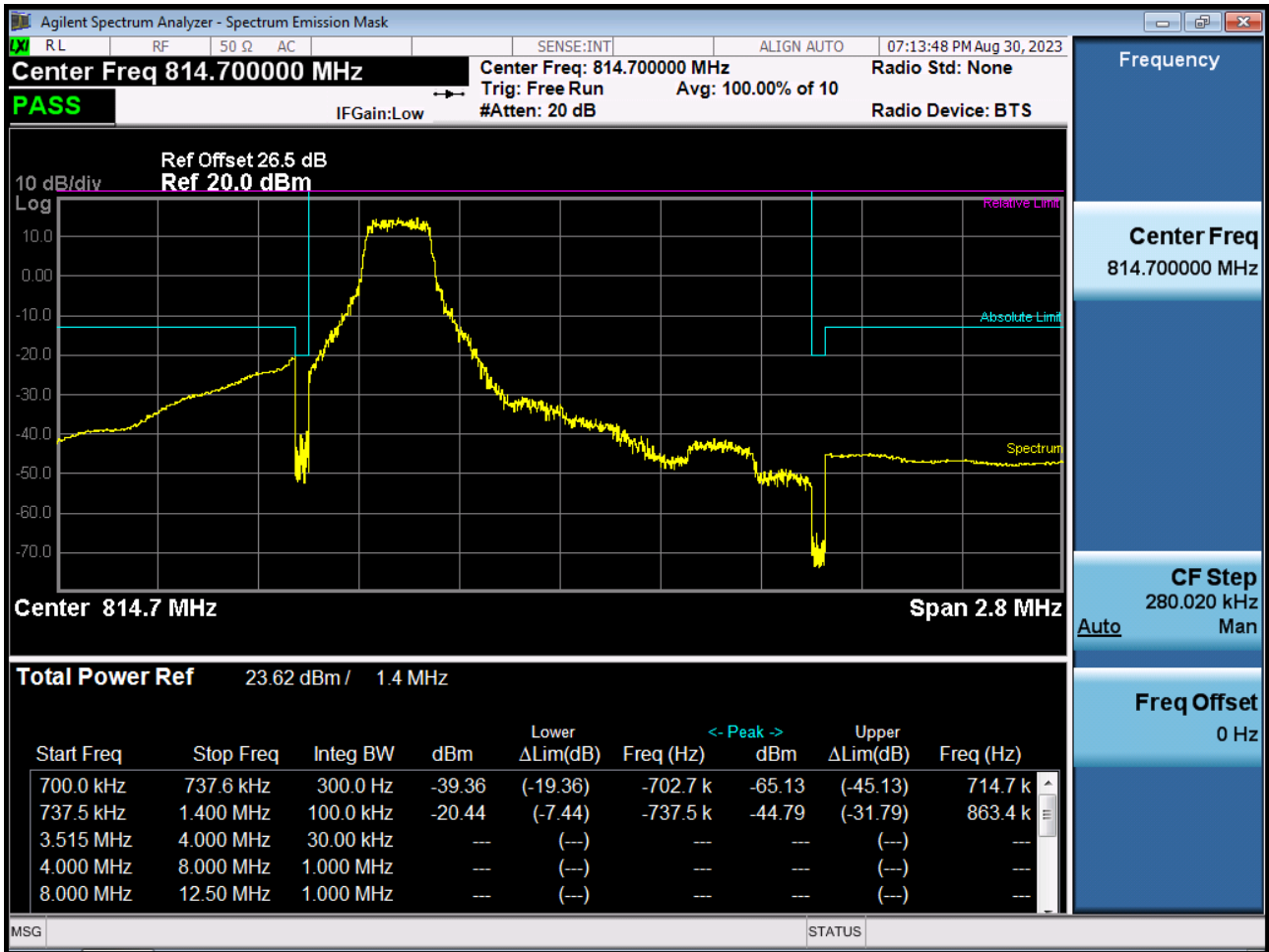
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 64QAM RB 75_0)



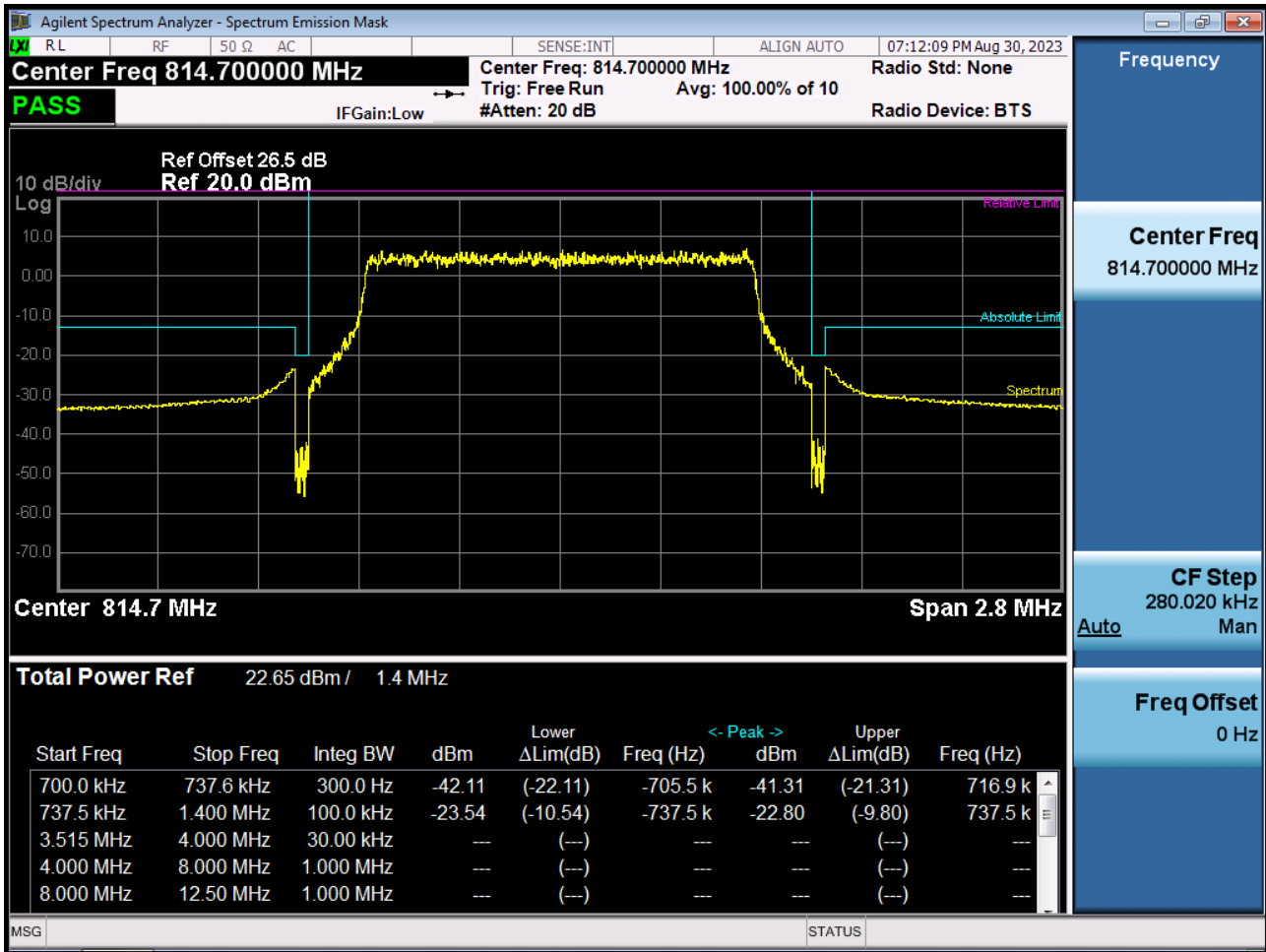
BAND 26. Occupied Bandwidth Plot (15 M BW Ch.26765 256QAM RB 75_0)



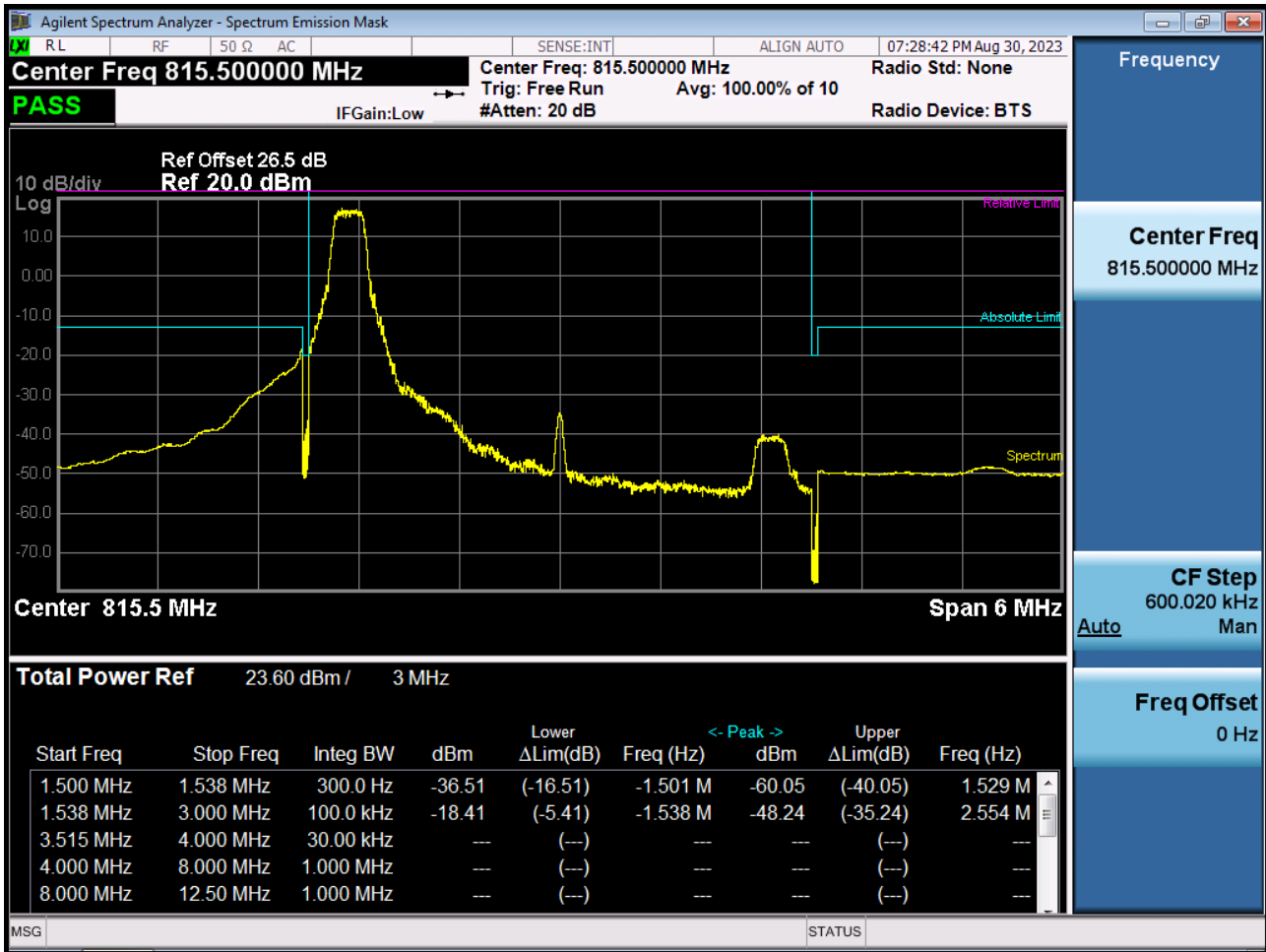
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK RB 1, Offset 0)



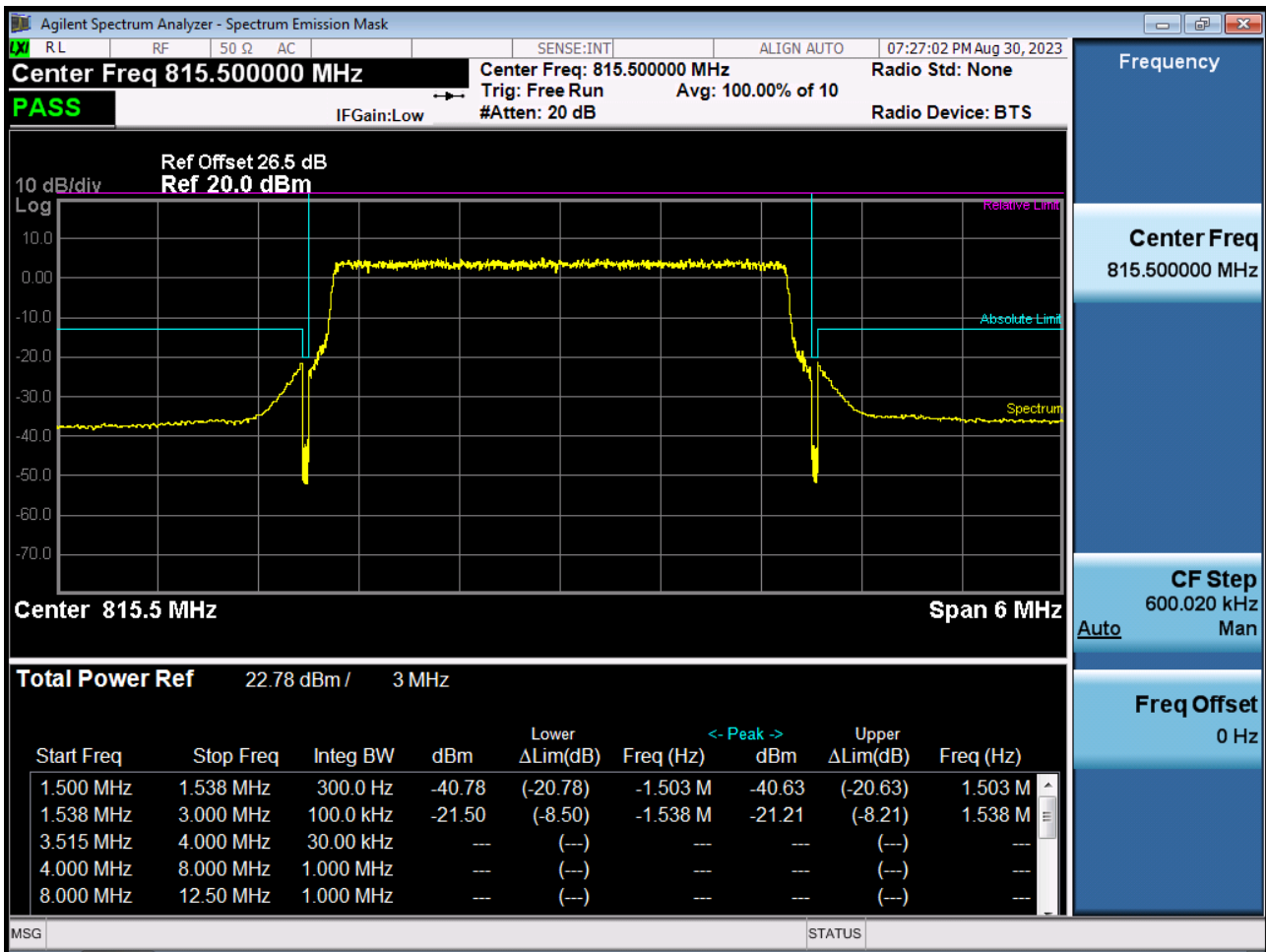
BAND 26. Lower Channel Edge Plot (1.4 M BW Ch.26697 QPSK_RB6_Offset 0)



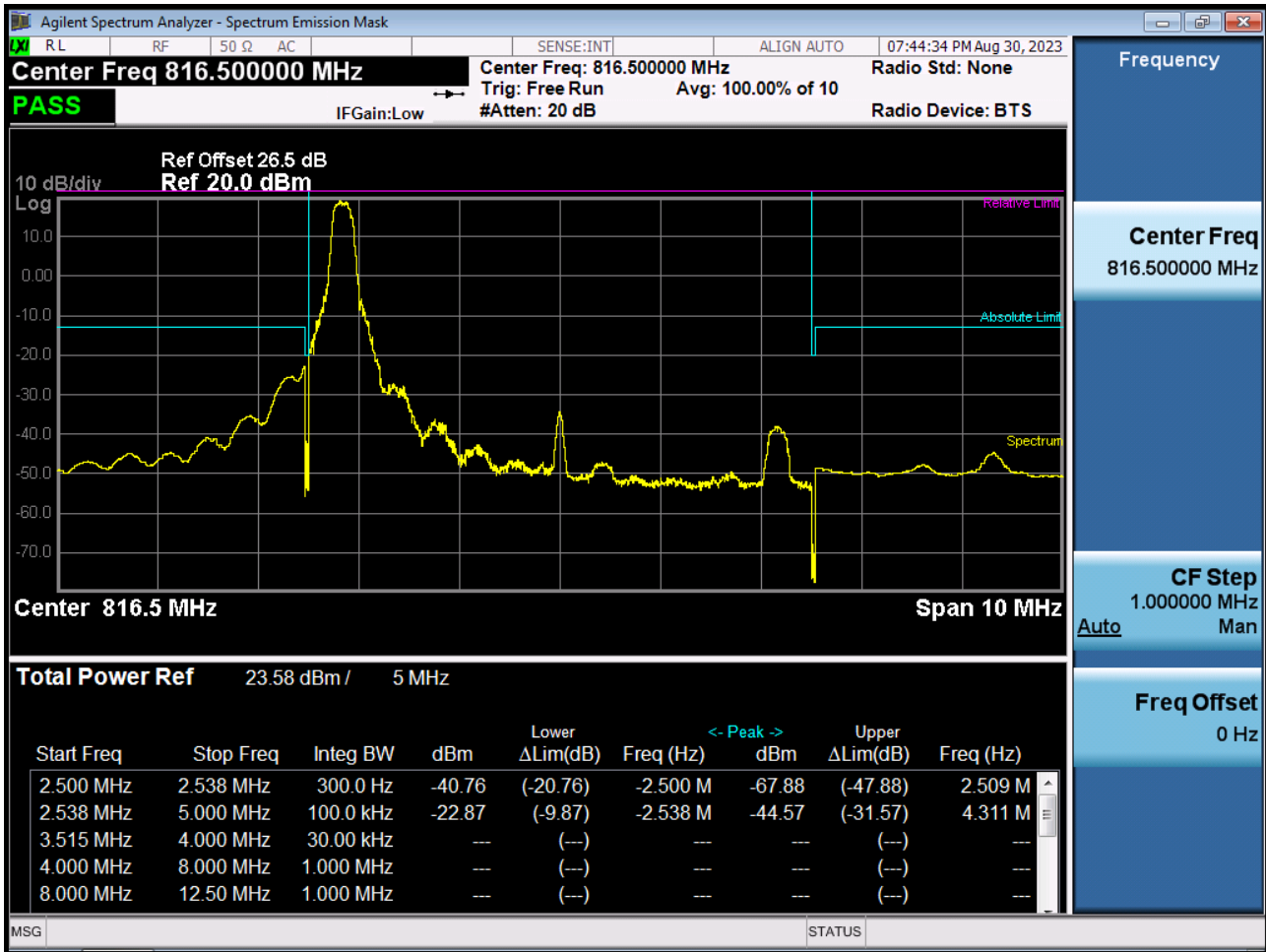
BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK RB 1, Offset 0)



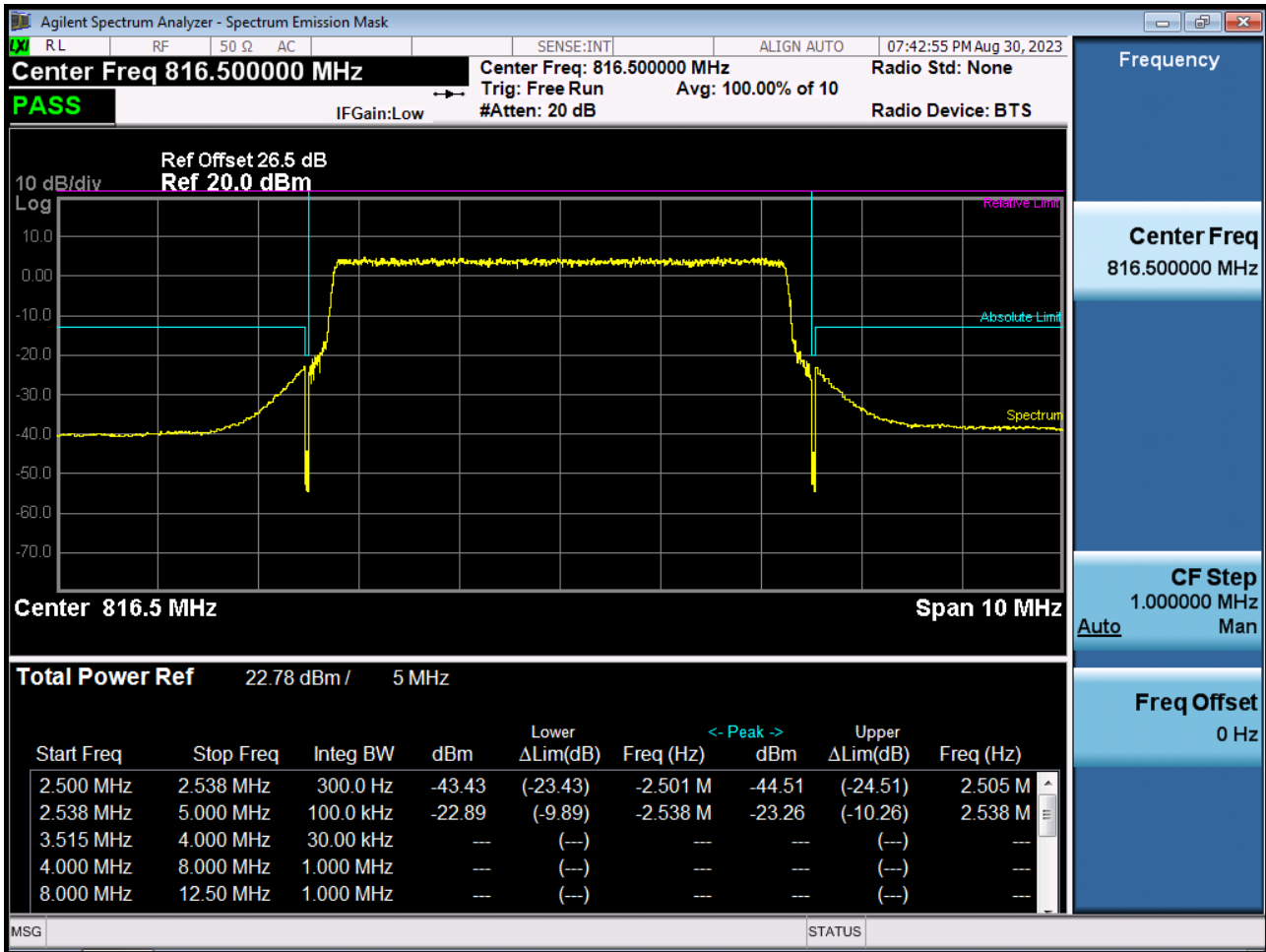
BAND 26. Lower Channel Edge Plot (3 M BW Ch.26705 QPSK_RB15_Offset 0)



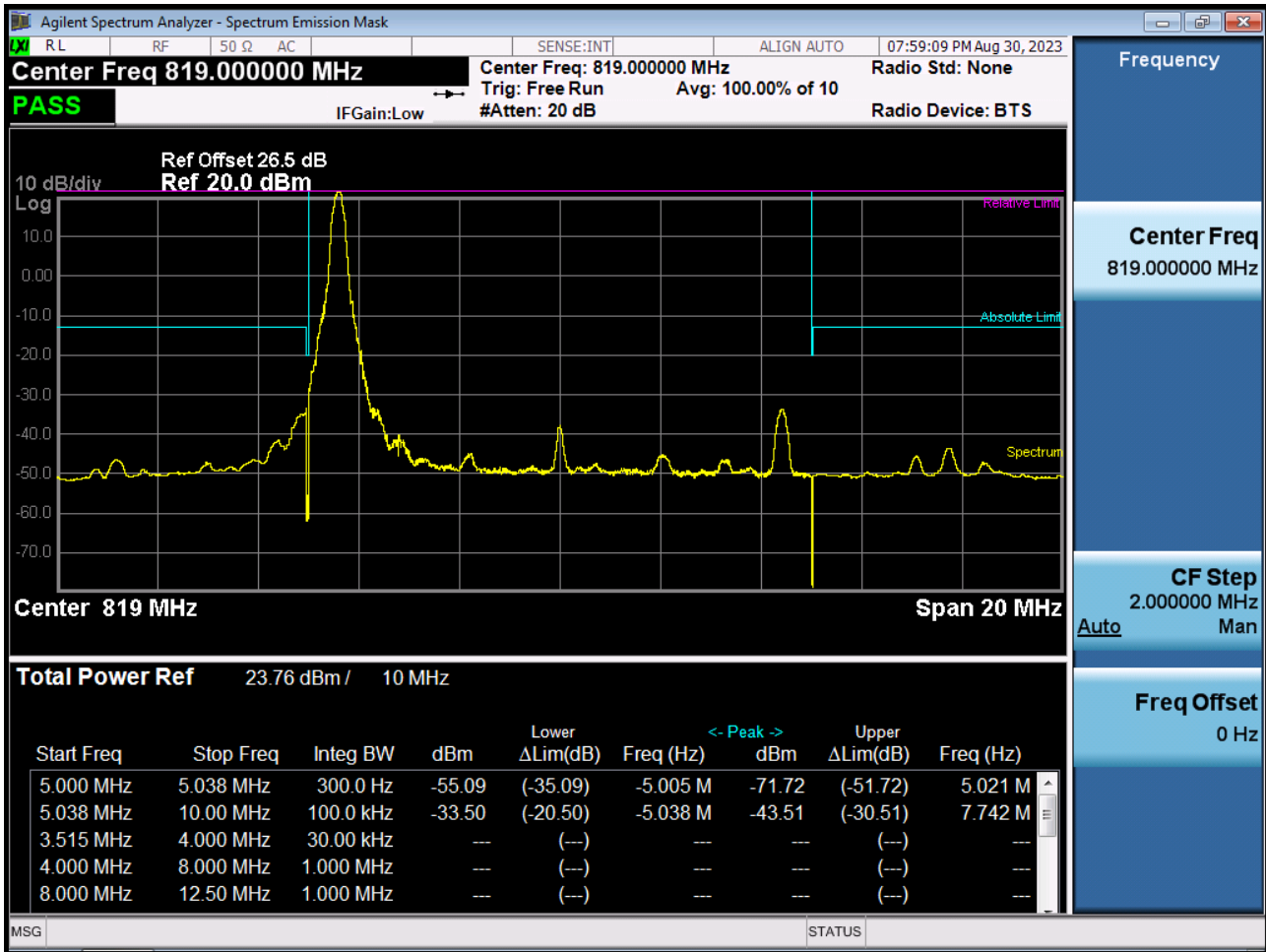
BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK RB 1, Offset 0)



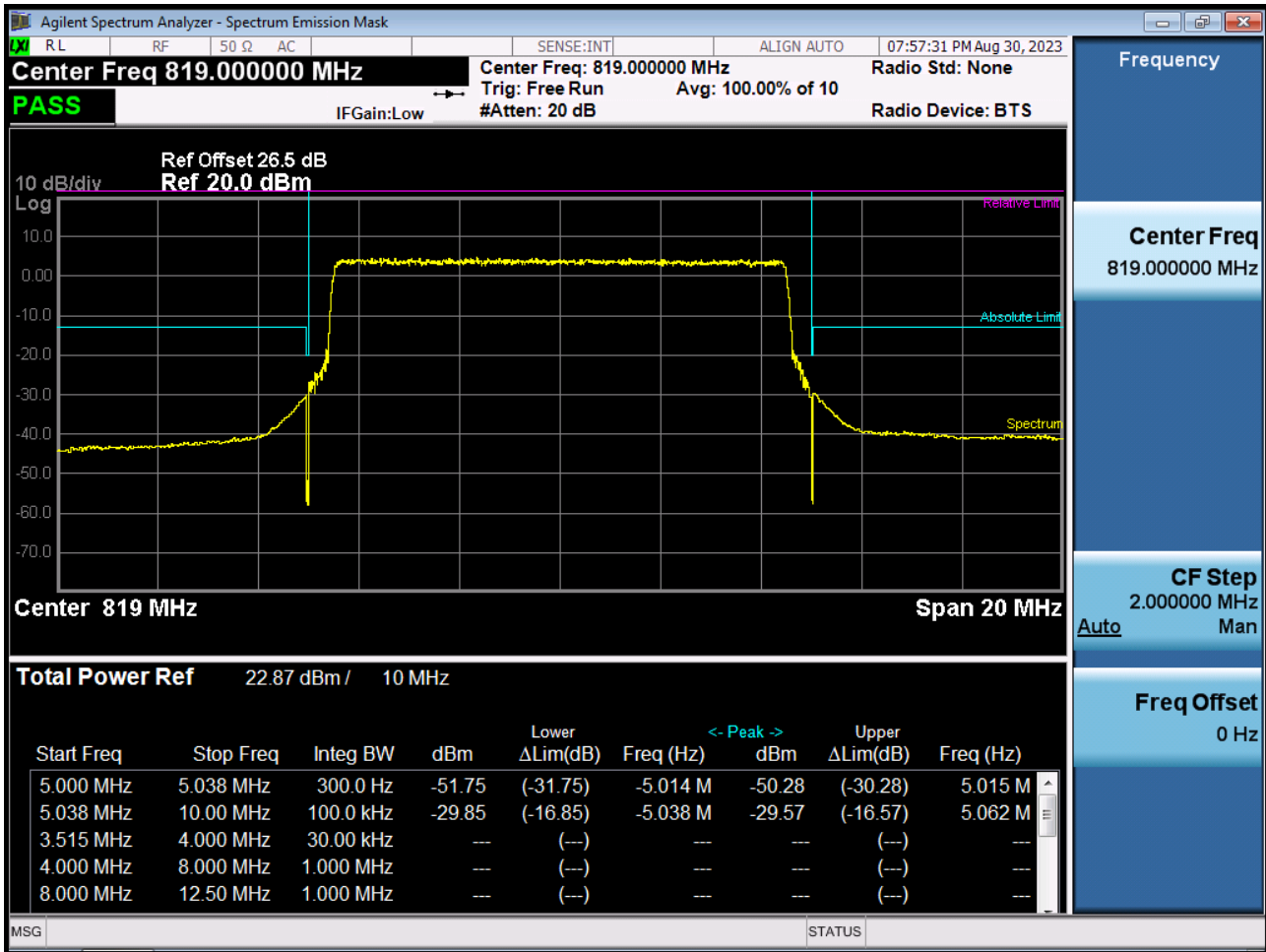
BAND 26. Lower Channel Edge Plot (5 M BW Ch.26715 QPSK_RB25_Offset 0)



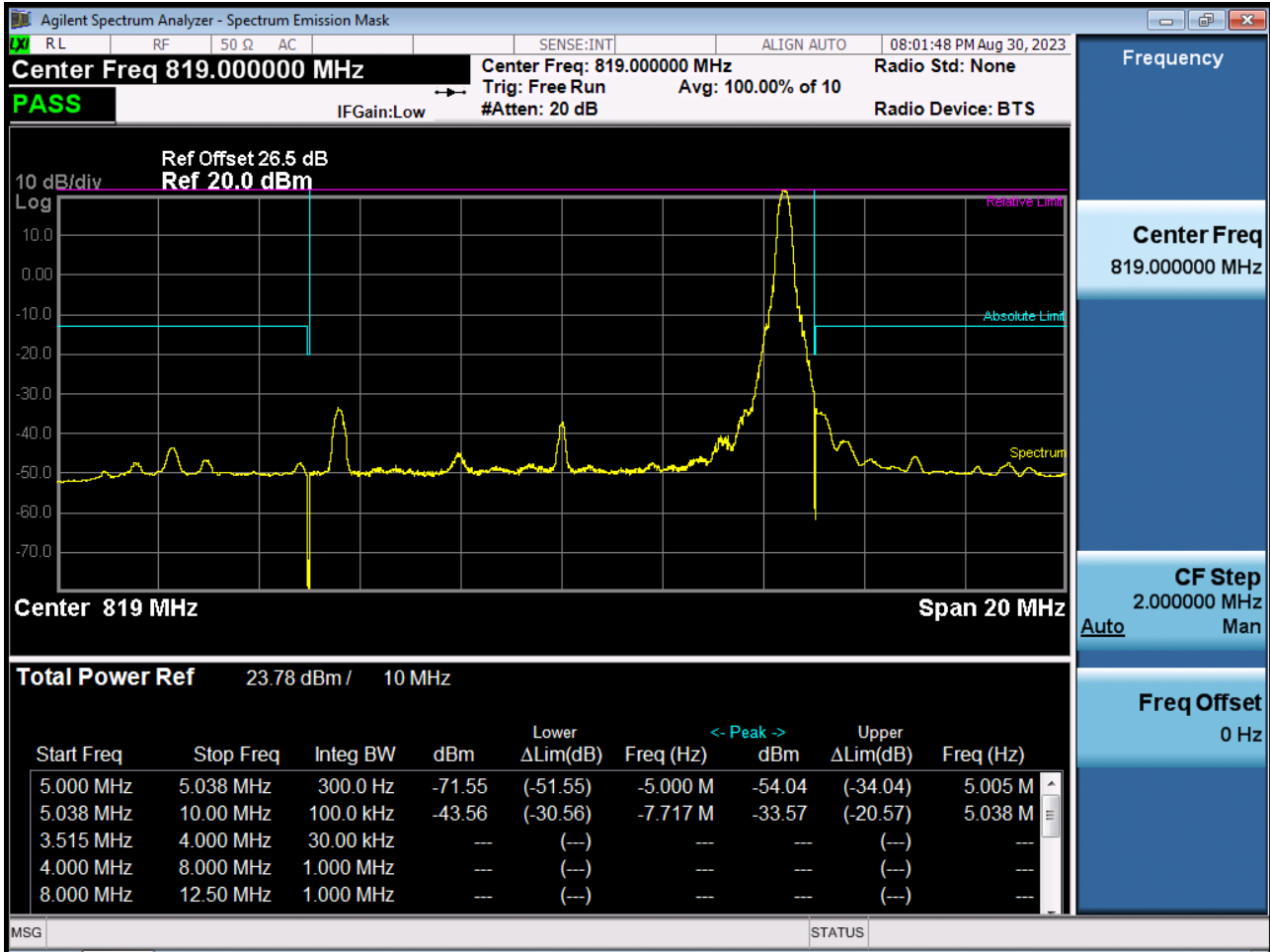
BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK RB 1, Offset 0)



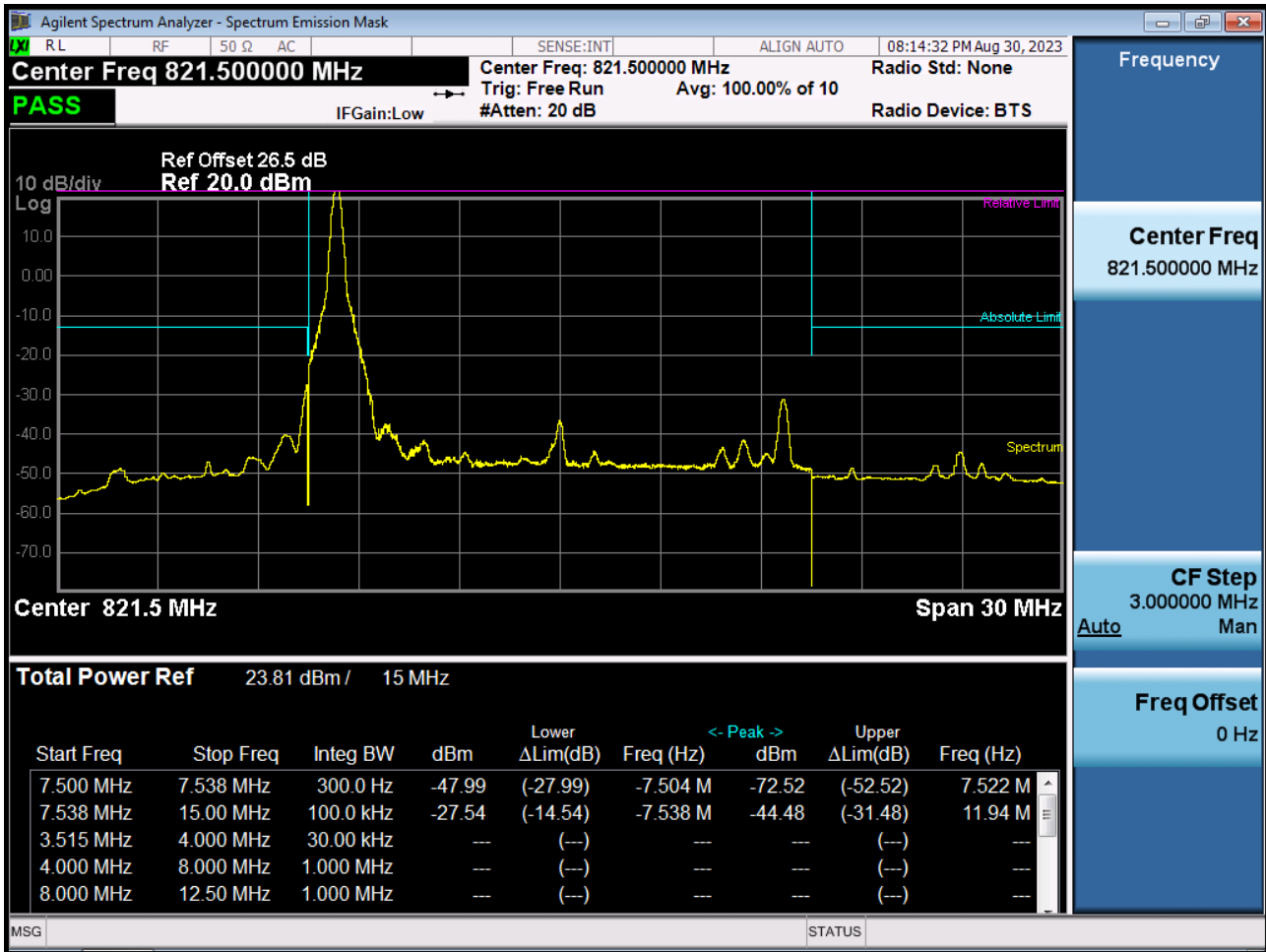
BAND 26. Low Channel Edge Plot (10 M BW Ch.26740 QPSK_RB50_Offset 0)



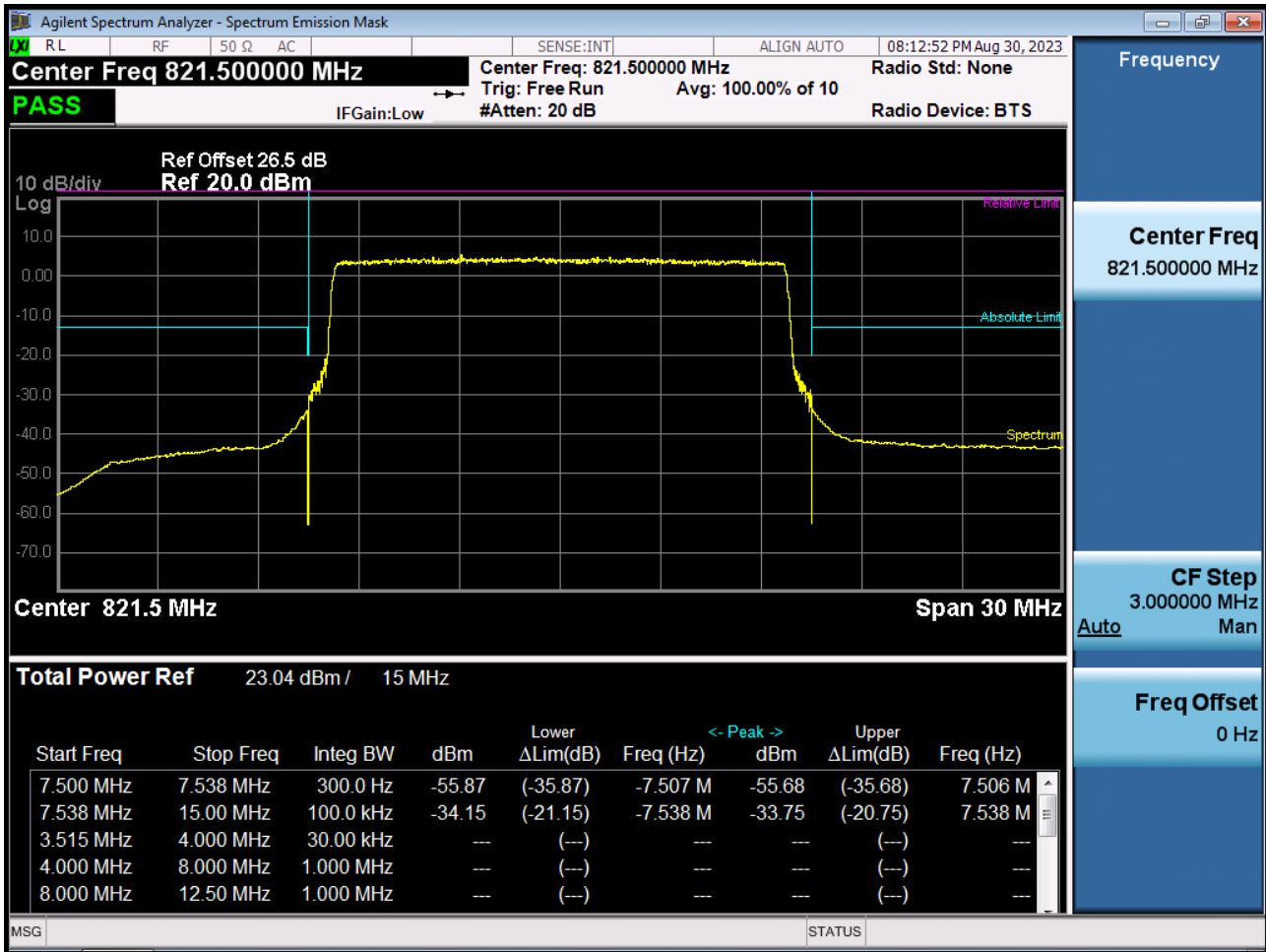
BAND 26. Mid Channel Edge Plot (10 M BW Ch. 26740 QPSK_RB1_Offset 49)



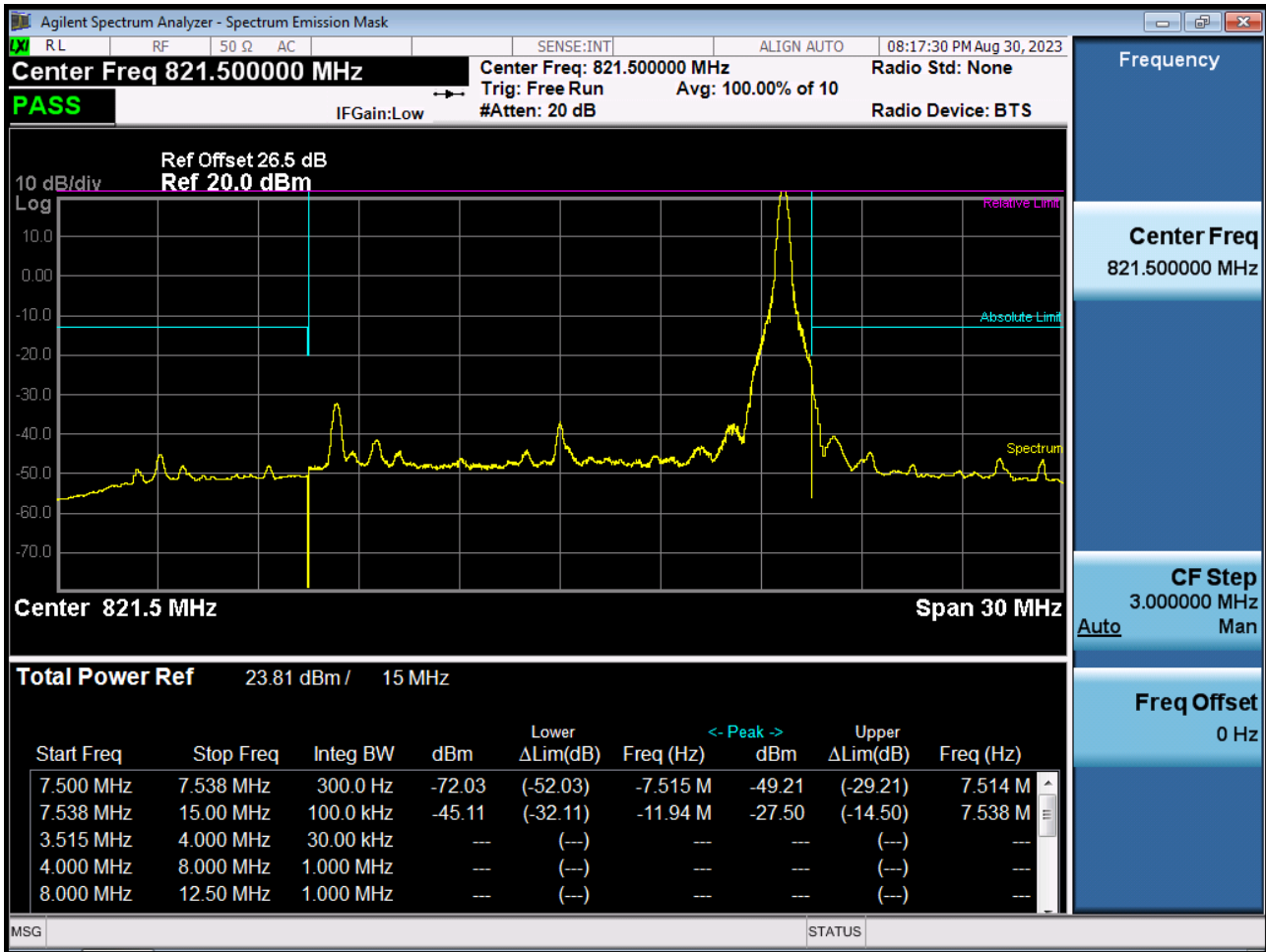
BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset 0)



BAND 26. Low Channel Edge Plot (15 M BW Ch.26765 QPSK RB 75, Offset0)



BAND 26. Mid Channel Edge Plot (15 M BW Ch.26765 QPSK_RB1_Offset 74)



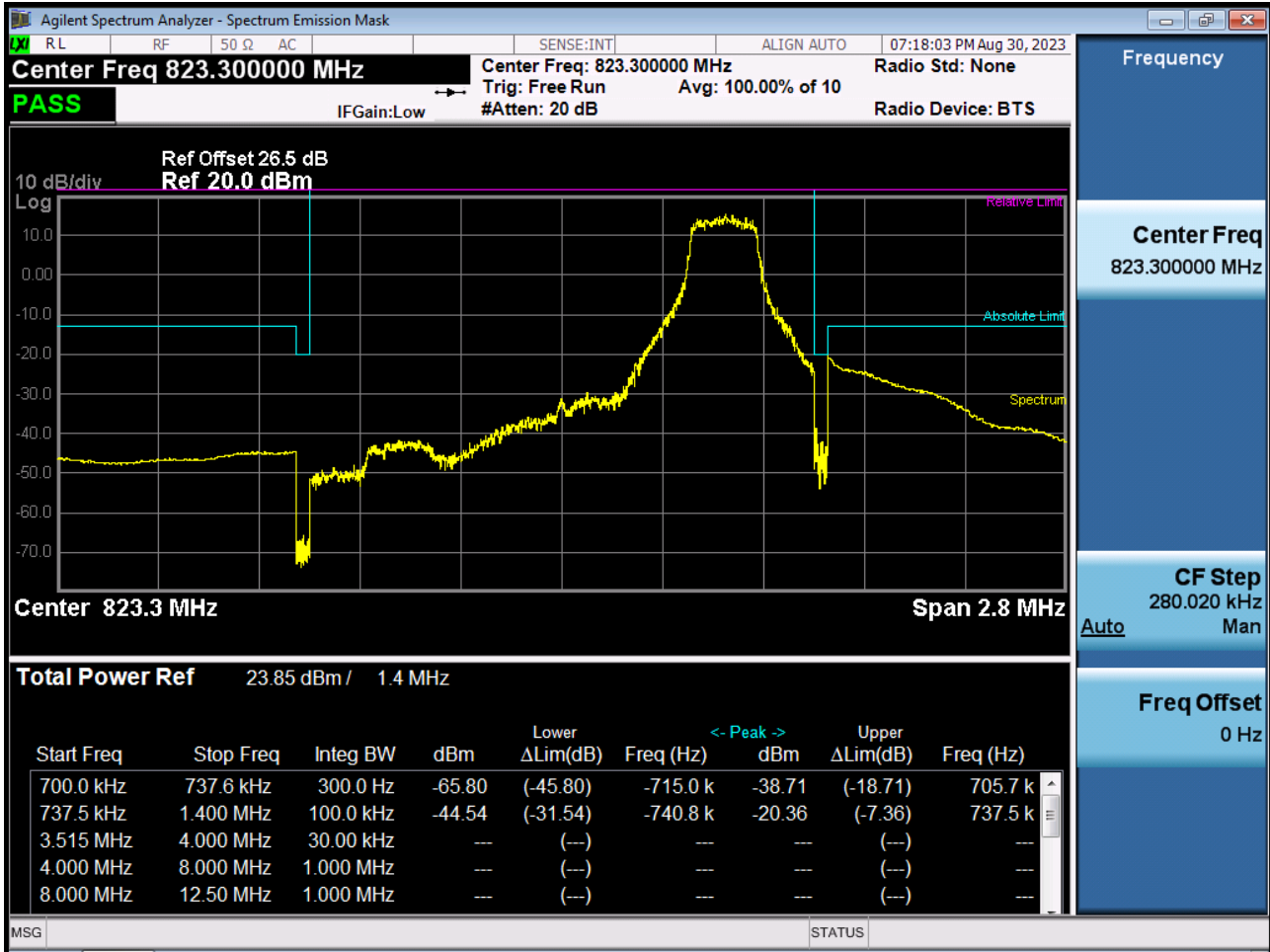
BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK RB 1, Offset74)



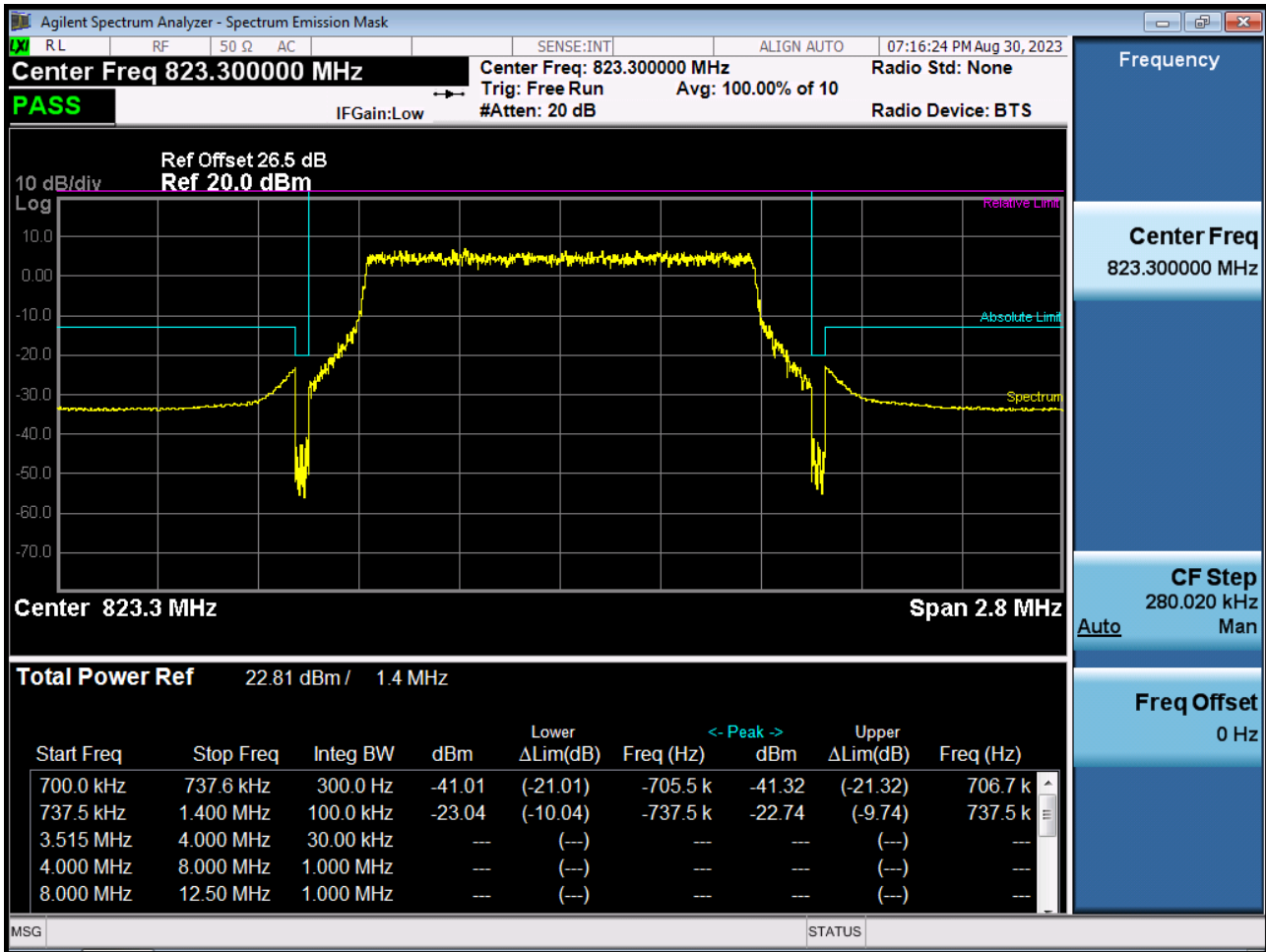
BAND 26. Mid Band Edge Plot (15 M BW Ch.26765 QPSK_RB75_Offset 0)



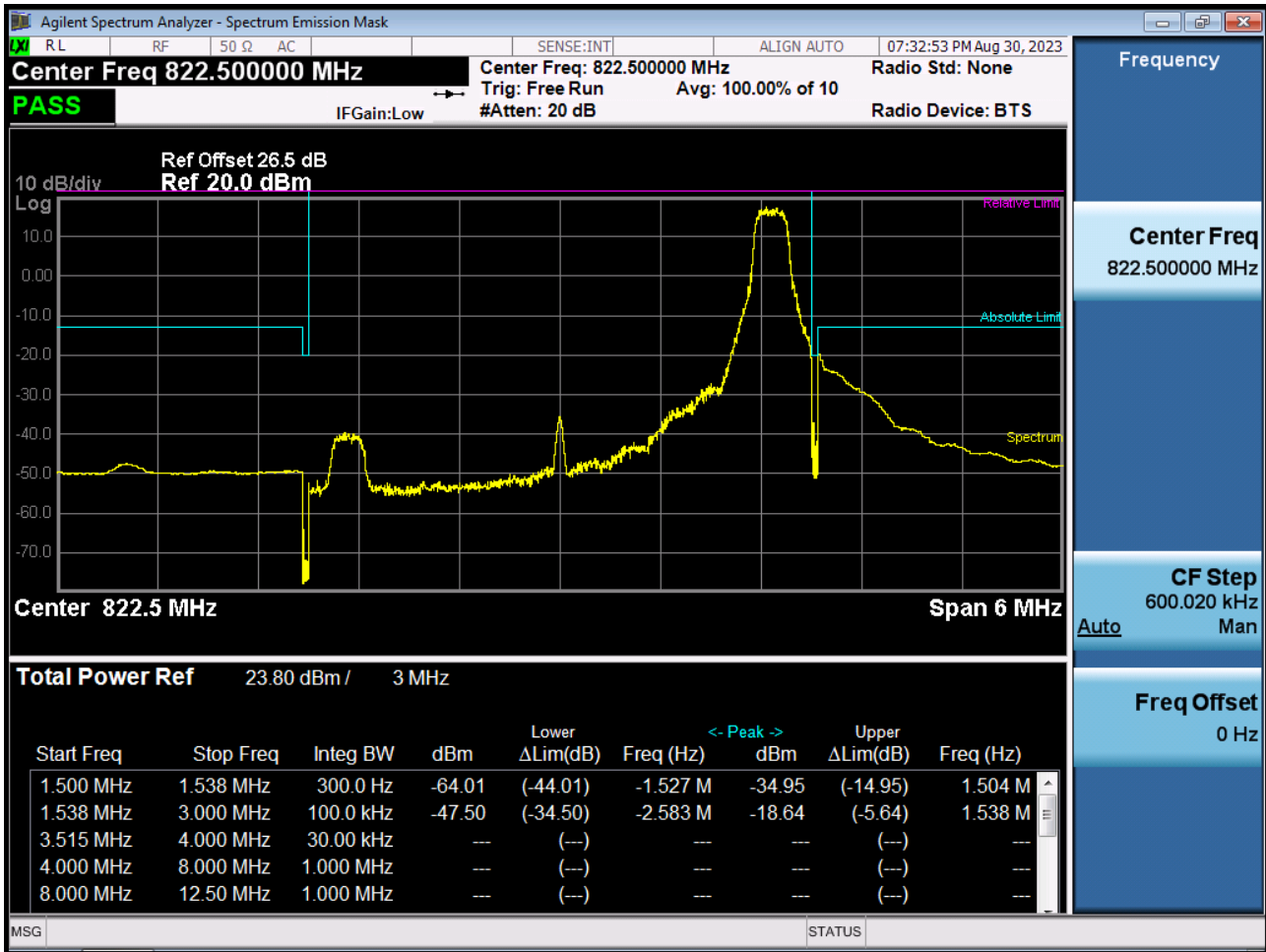
BAND 26. Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB1_Offset 5)



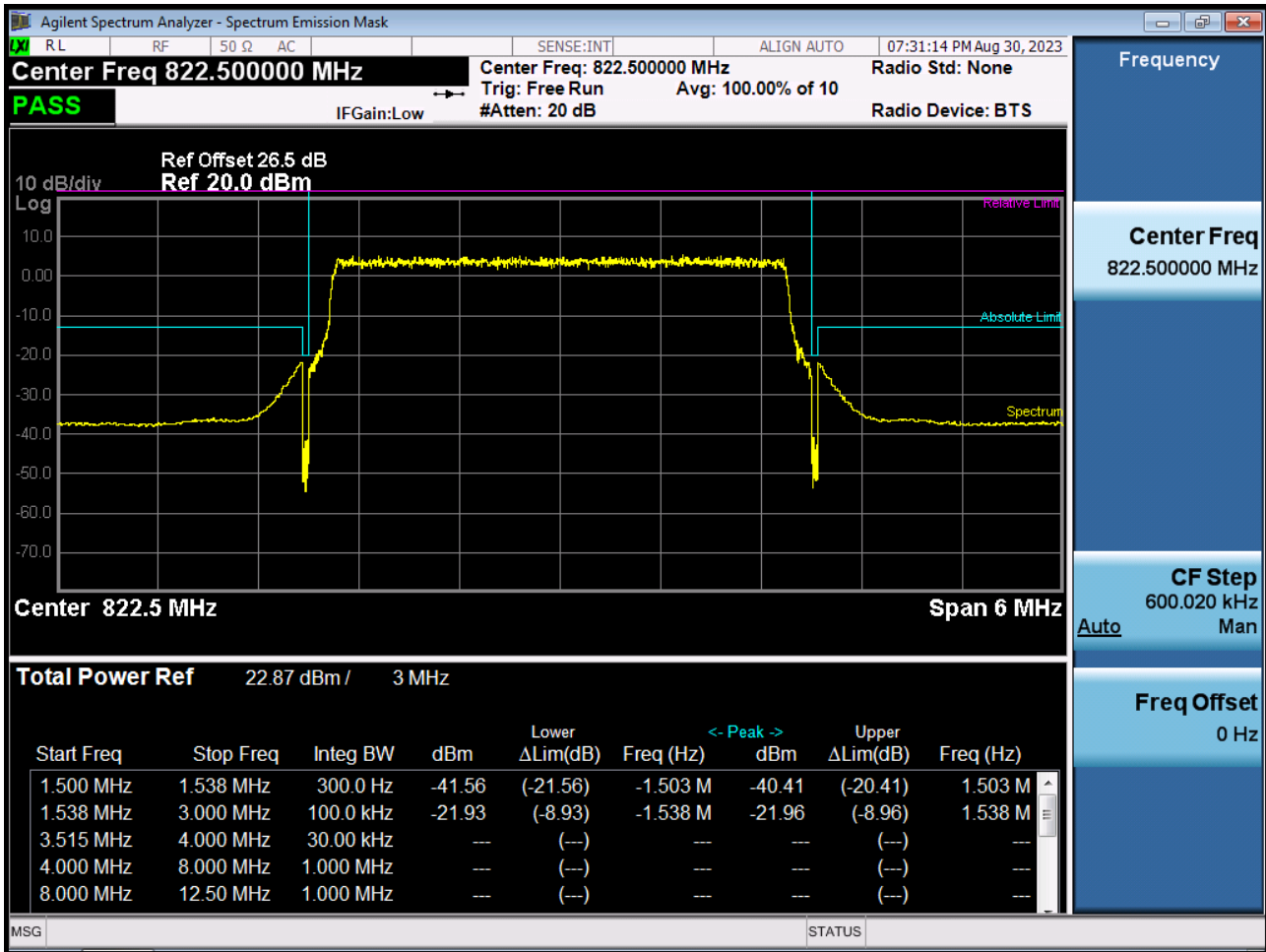
BAND 26. Upper Channel Edge Plot (1.4 M BW Ch.26783 QPSK_RB6_Offset 0)



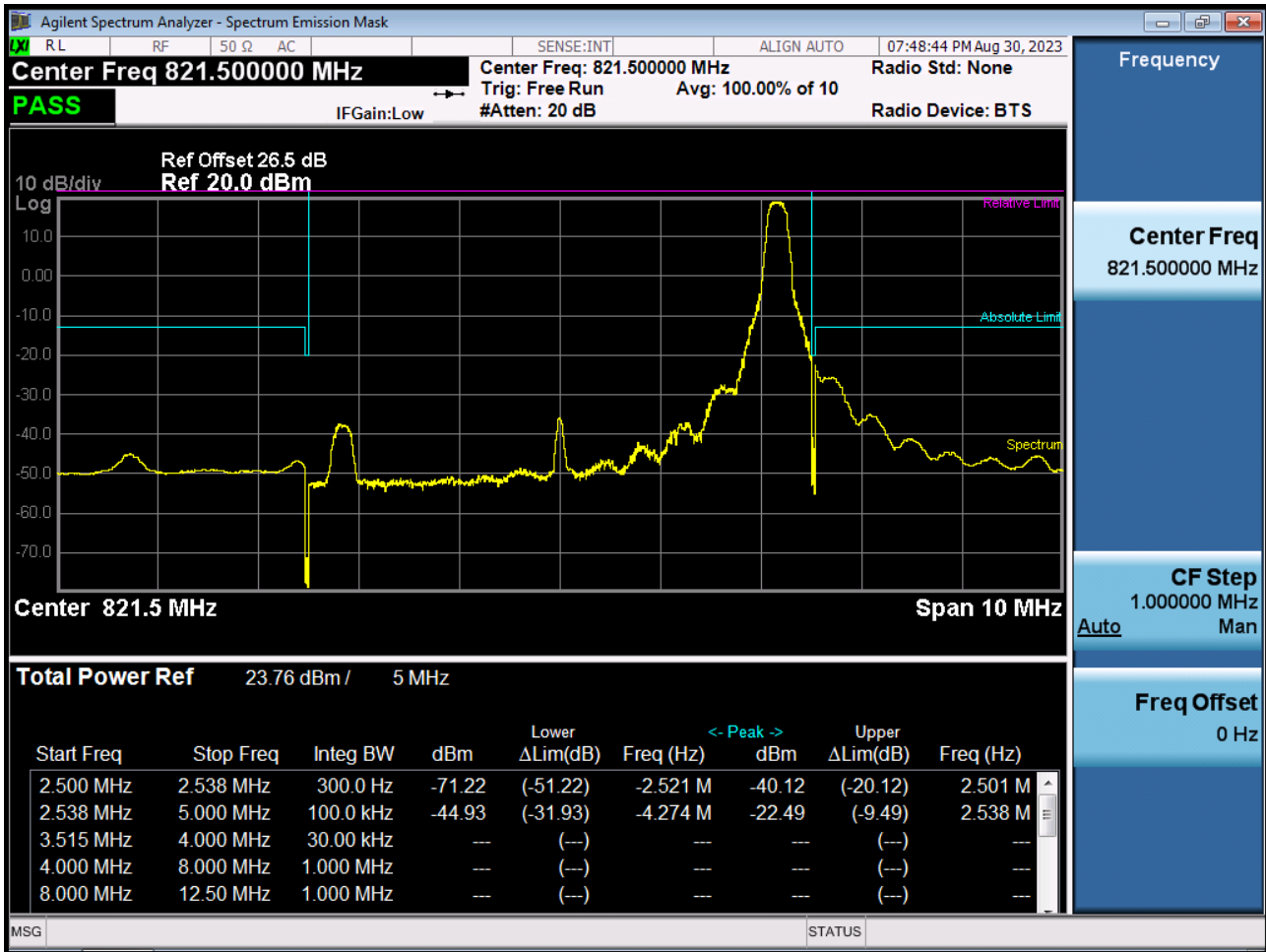
BAND 26. Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB1_Offset 14)



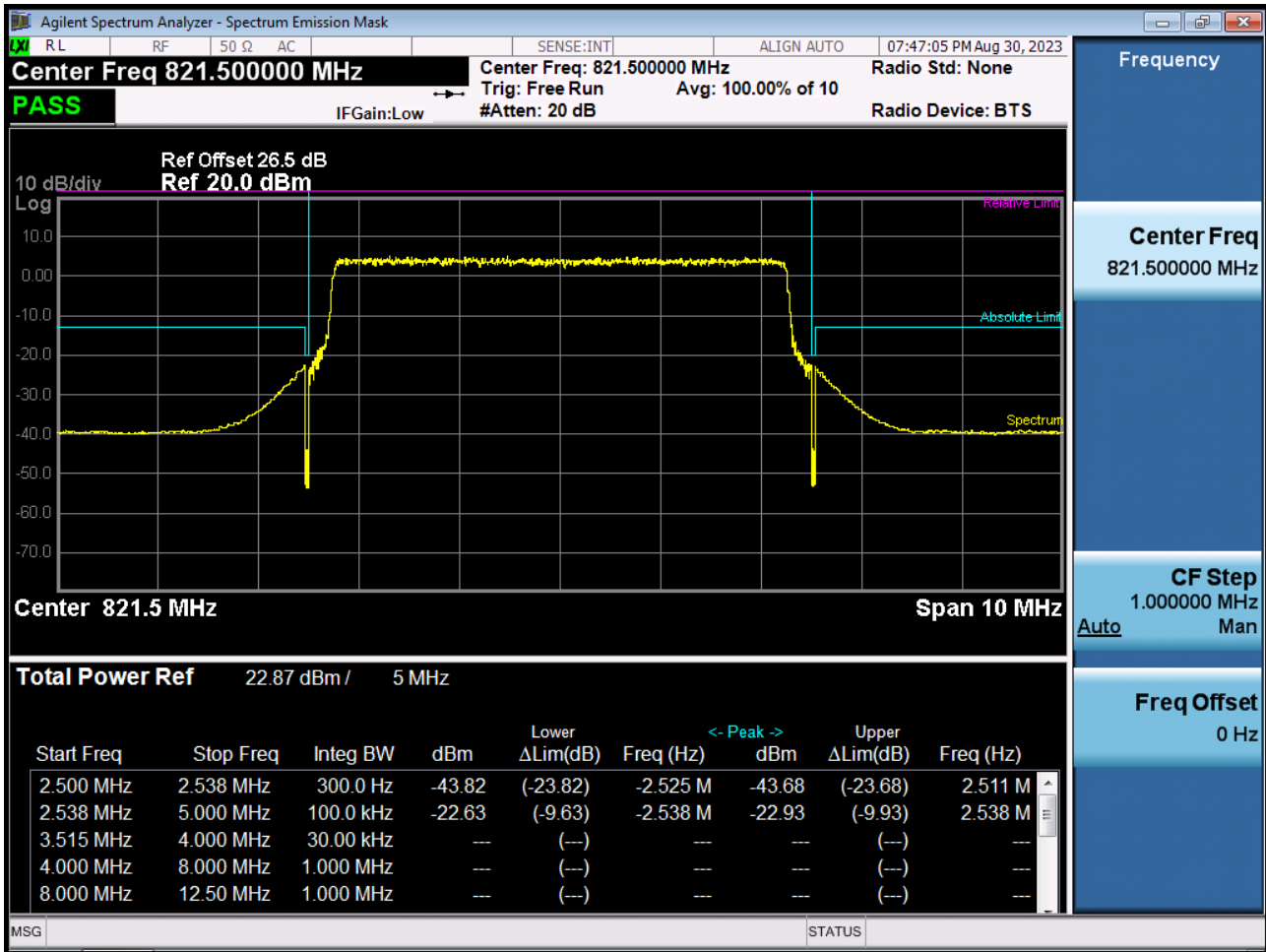
BAND 26. Upper Channel Edge Plot (3 M BW Ch.26775 QPSK_RB15_Offset 0)



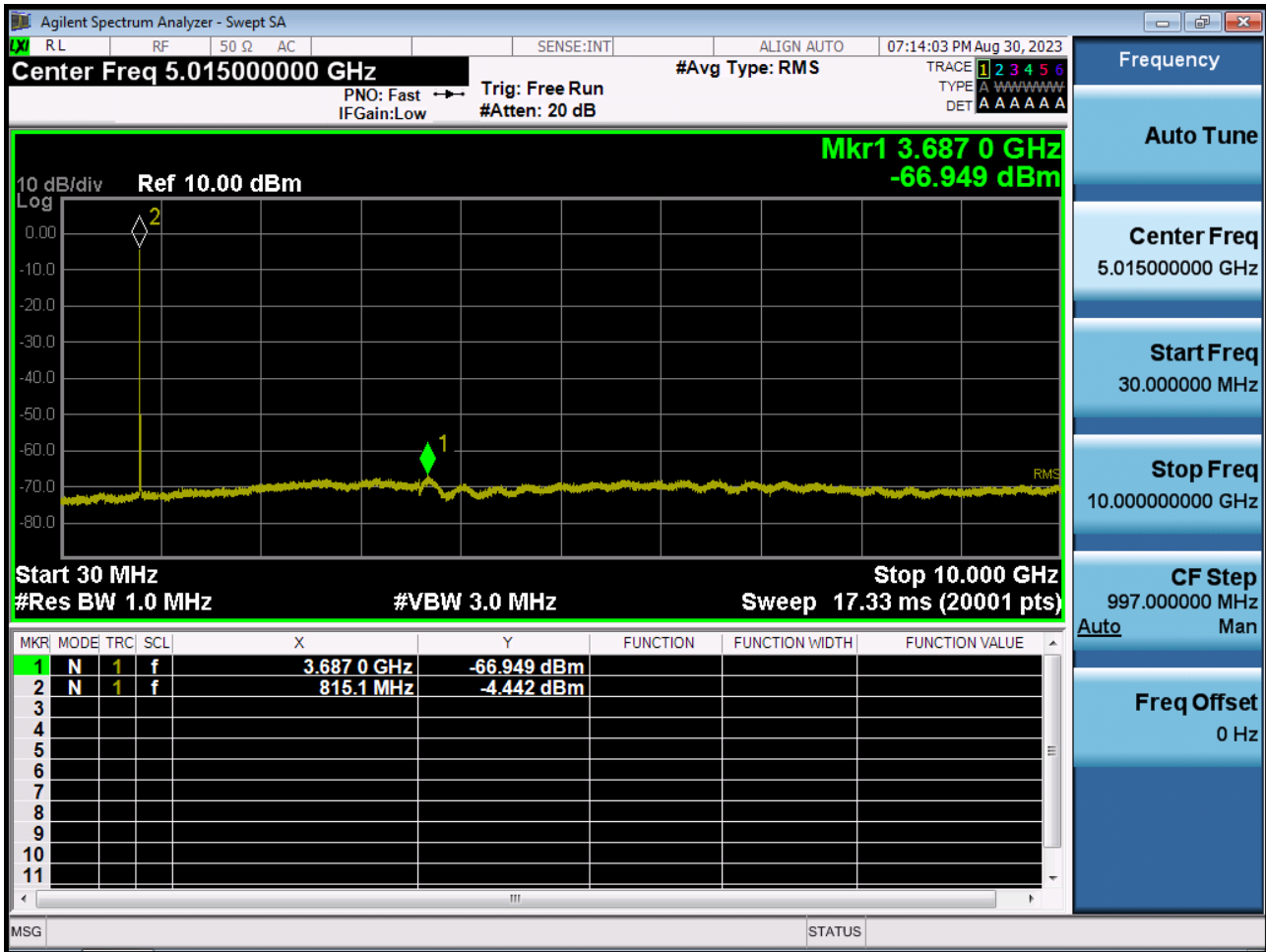
BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB1_Offset 24)



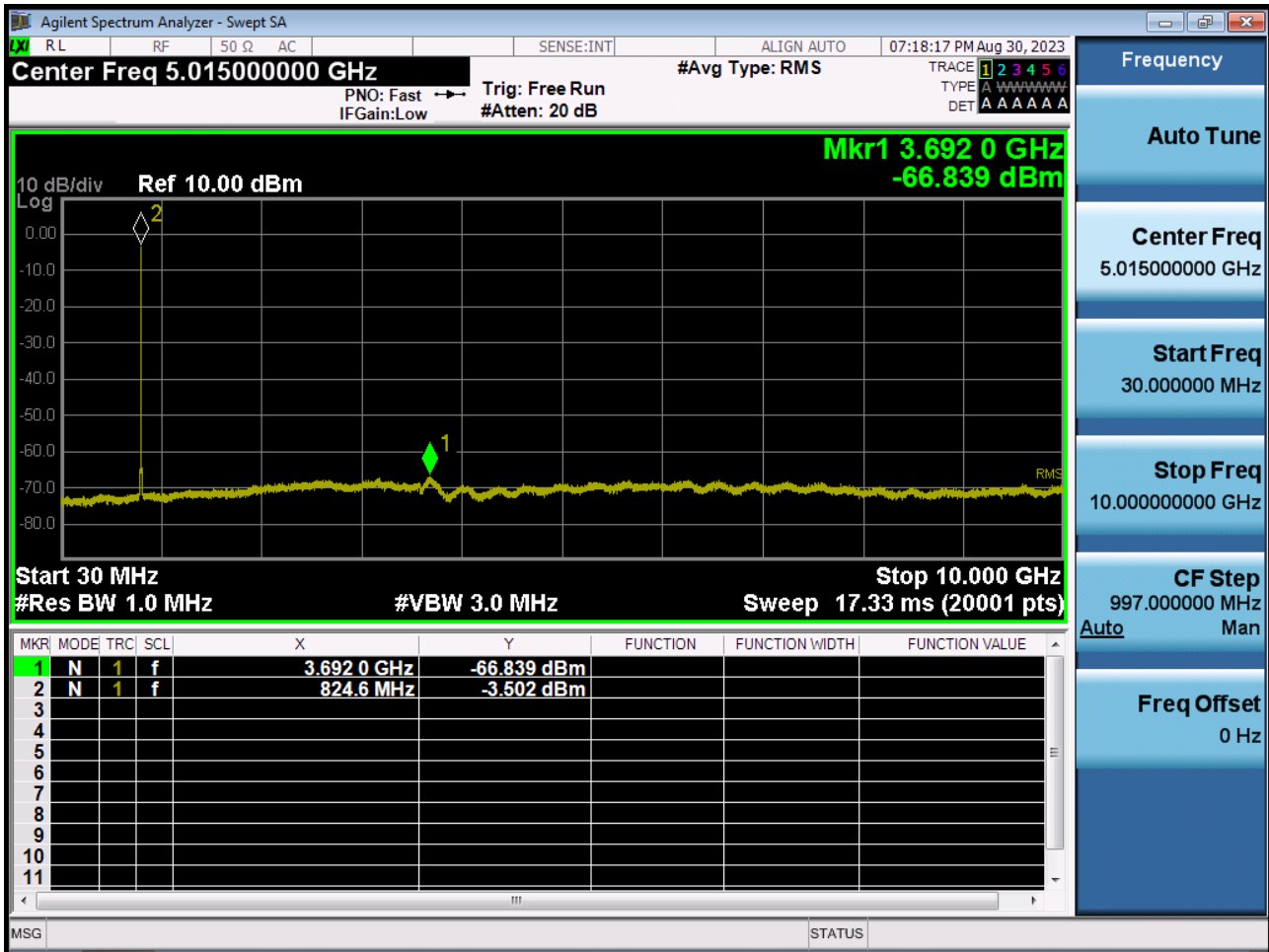
BAND 26. Upper Channel Edge Plot (5 M BW Ch.26765 QPSK_RB25_Offset 0)



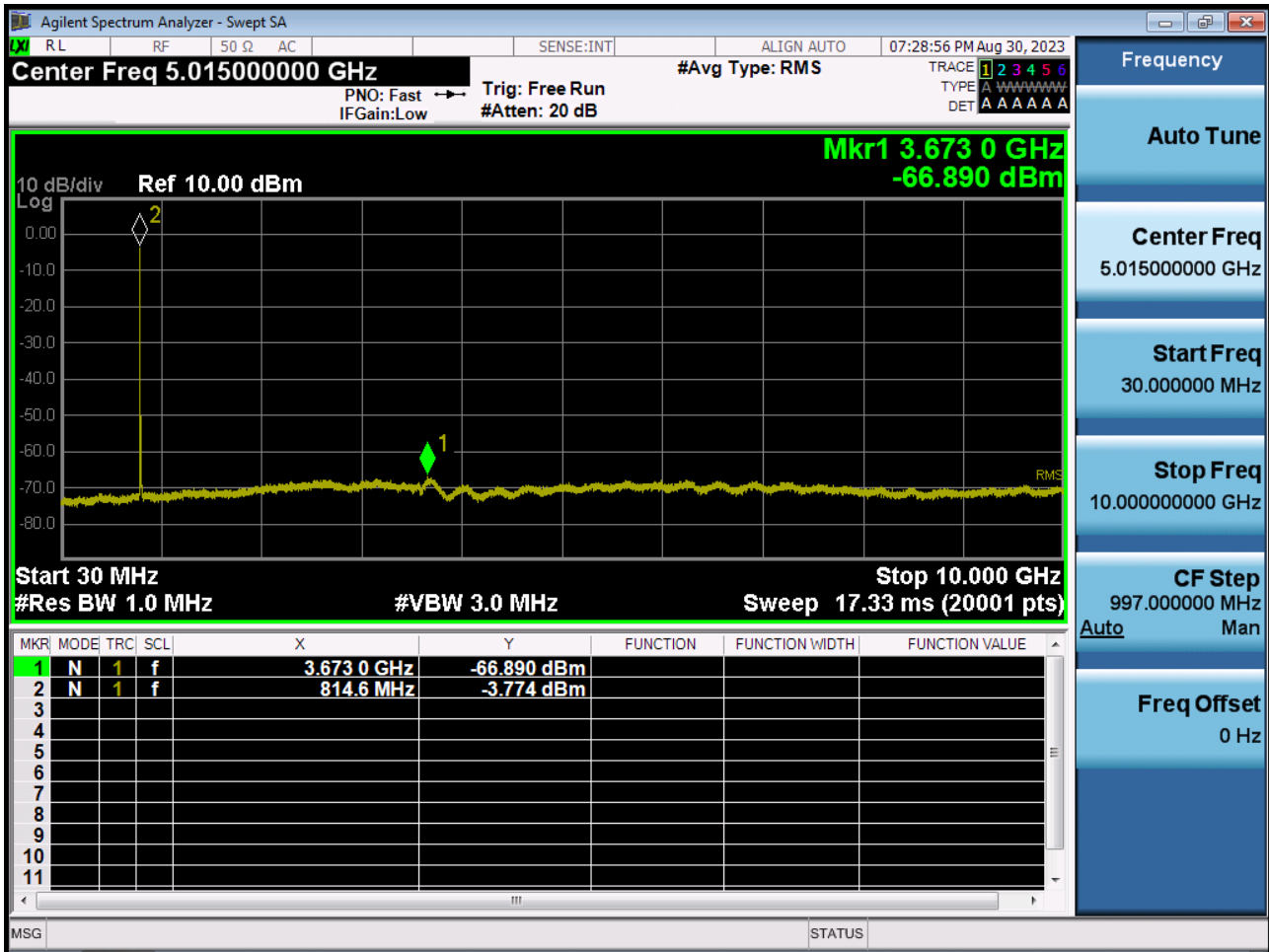
BAND 26. Conducted Spurious (26697 ch_1.4 MHz_QPSK_RB 1_0)



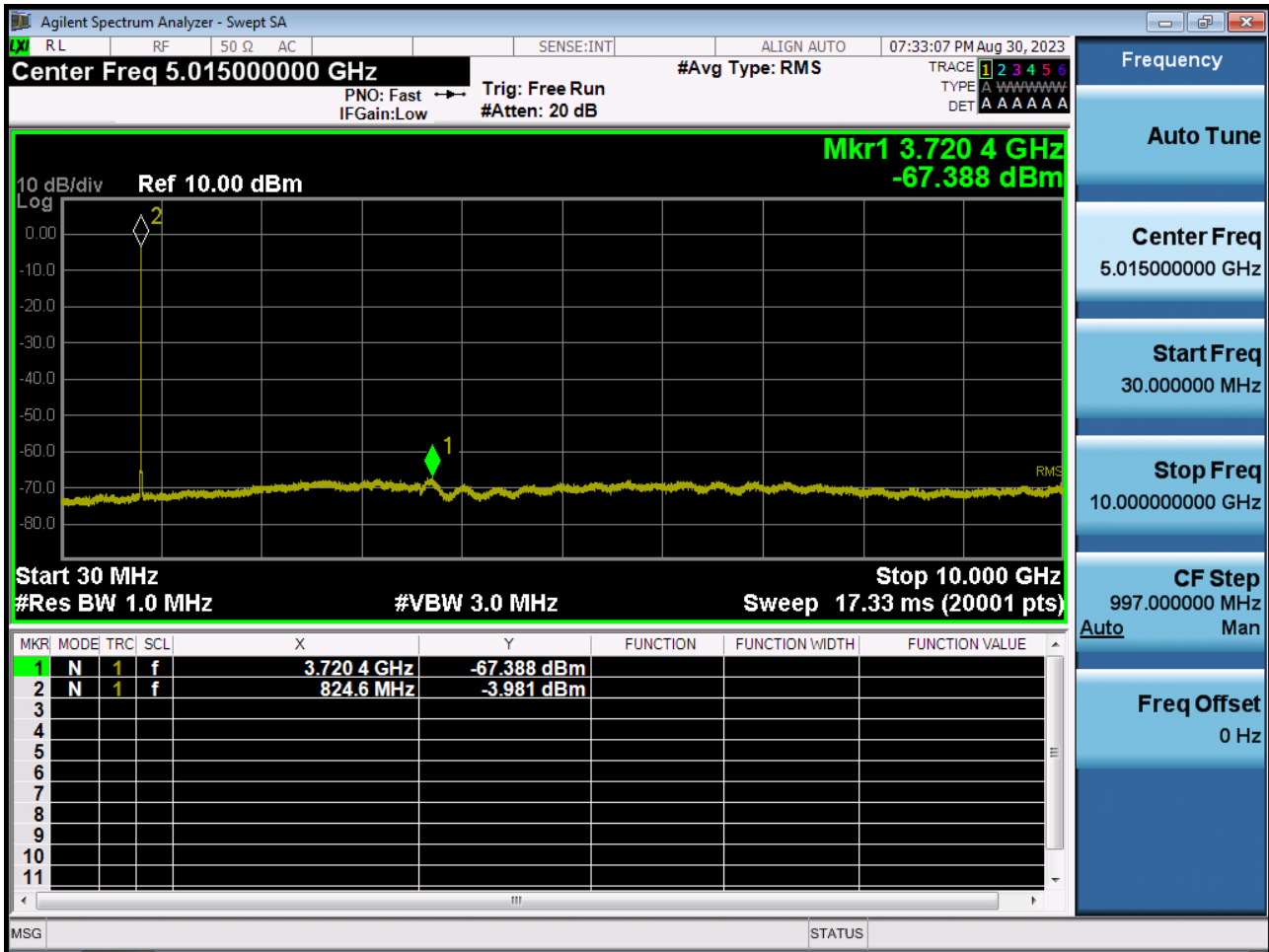
BAND 26. Conducted Spurious (26783 ch_1.4 MHz_QPSK_RB 1_0)



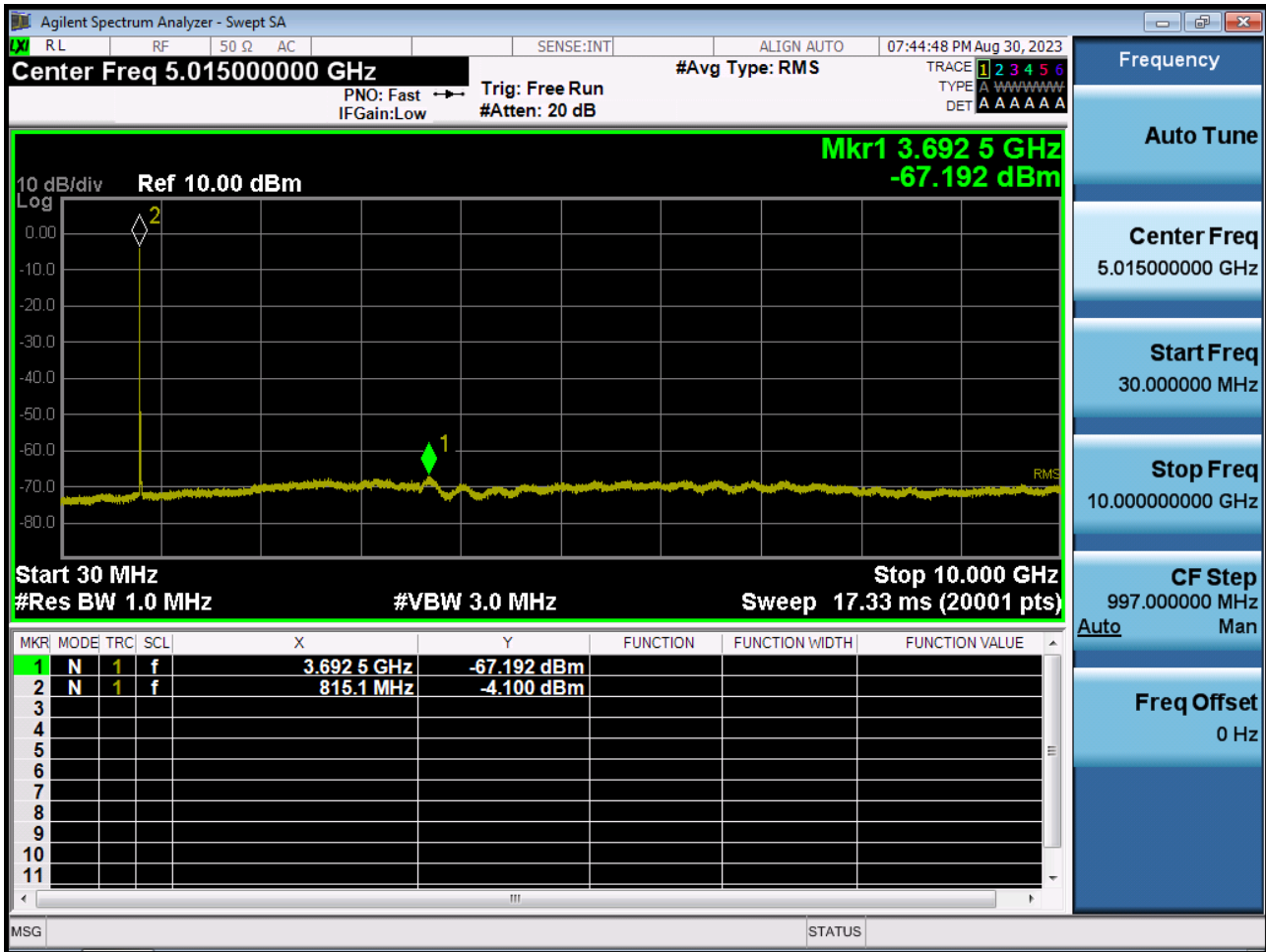
BAND 26. Conducted Spurious (26705 ch_3 MHz_QPSK_RB 1_0)



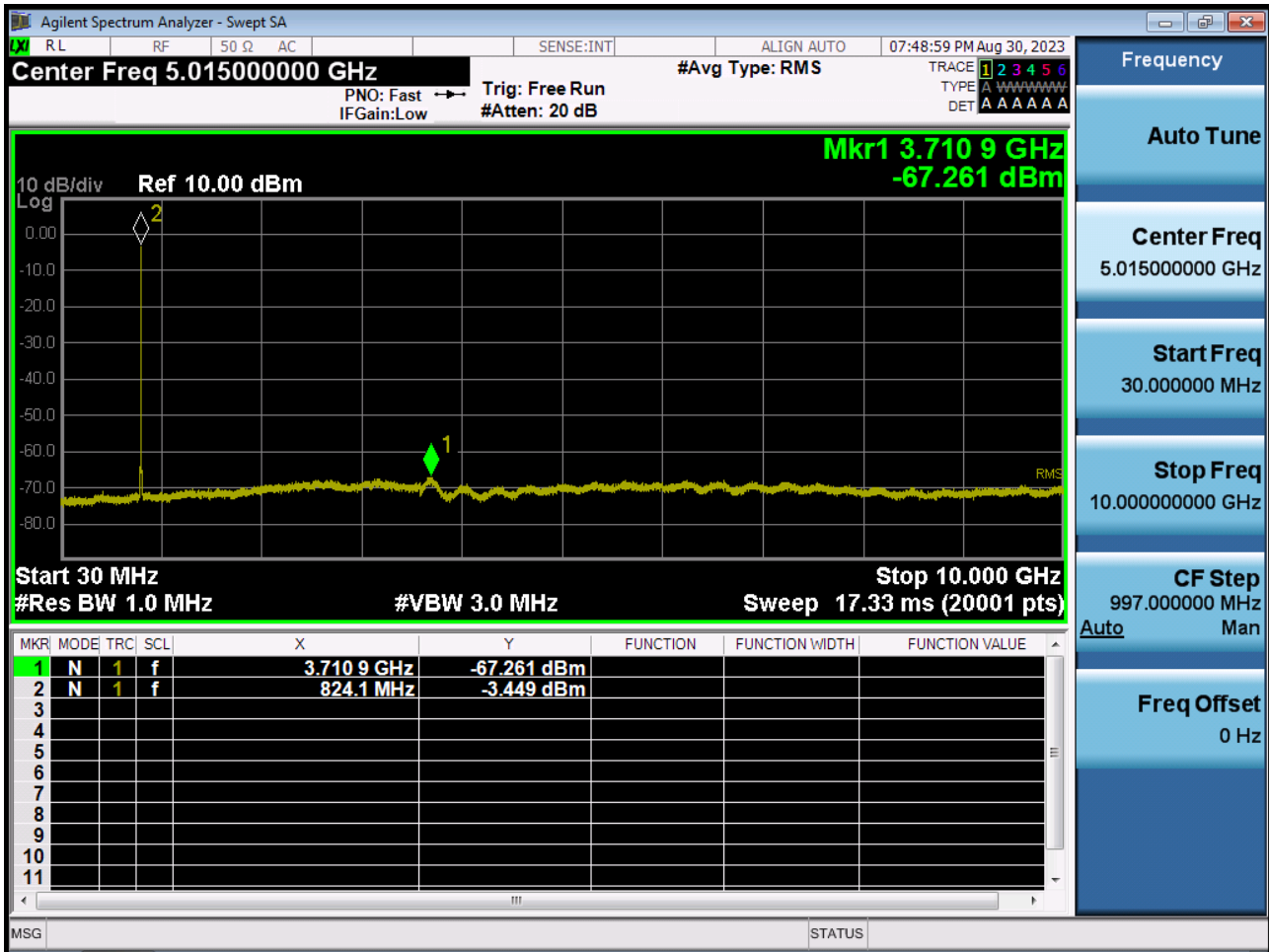
BAND 26. Conducted Spurious (26775 ch_3 MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious (26715 ch_5 MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious (26765 ch_5 MHz_QPSK_RB 1_0)



BAND 26. Conducted Spurious (26740 ch_10 MHz_QPSK_RB 1_0)

