

RF TEST REPORT

Applicant PATEO CONNECT Technology
(Shanghai) Corporation

FCC ID 2BOT7-PCM3-J

Product Infotainment System

Brand PATEO

Model PCCM Plus 997/987 II;
PCCM Plus 991/981 I

Report No. EFTA25050020-IE-01-R1

Issue Date June 24, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 / FCC CFR 47 Part 22H / FCC CFR47 Part 27C**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying

Approved by: Xu Kai

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

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Summary of Measurement Results

Test Case	Clause in FCC rules	Limits	Verdict
WCDMA Band 5; LTE Band 5			
RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	≤ 7 W (38.45 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 22.917(a)	≤ -13 dBm	PASS
Peak-to-Average Power Ratio	22.913(d) KDB 971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 22.355(d)(1)	≤ 2.5 ppm	PASS
Spurious Emissions at Antenna Terminals	2.1051 22.917(a)	≤ -13 dBm	PASS
Radiated Spurious Emission	2.1053 22.917 (a)	≤ -13 dBm	PASS
LTE Band 41			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(h)(2)	≤ 2 W (33 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 27.53(m)(4)	The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also	PASS

Test Case	Clause in FCC rules	Limits	Verdict
		submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.	
Peak-to-Average Power Ratio	27.50(d)(5) KDB971168 D01(5.7)	≤ 13 dB	PASS
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS
Spurious Emissions at Antenna Terminals	2.1051 27.53(m)	≤ -25 dBm	PASS
Radiated Spurious Emission	2.1053 27.53(m)	≤ -25 dBm	PASS
Date of Testing: May 12, 2025 ~ June 6, 2025 Date of Sample Received: May 7, 2025			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	PATEO CONNECT Technology (Shanghai) Corporation
Applicant address	Room 3701, No. 866 Dongchangzhi Road, Hongkou District, Shanghai, 200080, PR.China
Manufacturer	PATEO CONNECT Technology (Shanghai) Corporation
Manufacturer address	Room 3701, No. 866 Dongchangzhi Road, Hongkou District, Shanghai, 200080, PR.China

2.2 General information

EUT Description				
Model	PCCM Plus 997/987 II; PCCM Plus 991/981 I			
Lab internal SN	EFTA25050020-IE-01/S01			
Hardware Version	V2.0			
Software Version	rc1.userdebug.PCM3			
Power Supply	External power supply			
Antenna Type	External Antenna			
Rated Power Supply Voltage	12 Vdc			
Operating Voltage	Minimum: 9VDC Maximum: 16VDC			
Operating Temperature	Lowest: -45°C Highest: +85°C			
Testing Temperature	Lowest: -30°C Highest: +50°C			
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)	Gain (dBi)
	WCDMA Band V	824 ~ 849	869 ~ 894	6.85
	LTE Band 5	824 ~ 849	869 ~ 894	6.85
	LTE Band 41	2535 ~ 2655	2535 ~ 2655	6.85
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE) QPSK, 16QAM, 64QAM;			
HSDPA UE Category	14			
HSUPA UE Category	6			
DC-HSDPA UE Category	6			
HSPA+ UE Category	24			
LTE Category	4			
Power Class	WCDMA / LTE: 3			
Maximum E.I.R.P./ E.R.P.	WCDMA Band V	26.50 dBm		
	LTE Band 5	27.30 dBm		
	LTE Band 41	28.98 dBm		
Note:				
1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.				

2. The customer declares that PCCM Plus 997/987 II and PCCM Plus 991/981 I are the same except for different appearance. This report only tests PCCM Plus 991/981 I.

3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 2 (2024)

FCC CFR 47 Part 22H (2024)

FCC CFR 47 Part 27C (2024)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation
	WCDMA Band 5
RF Power Output and Effective (Isotropic) Radiated power	RMC HSDPA/HSUPA DC-HSDPA/HSPA+
Occupied Bandwidth	RMC
Band Edge Compliance	RMC
Peak-to-Average Power Ratio	RMC
Frequency Stability	RMC
Spurious Emissions at Antenna Terminals	RMC
Radiated Spurious Emission	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 5	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 5	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 41	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 5	O	O	O	O	-	-	O	-	-	-	O	-	O	-
	LTE 41	-	-	O	O	O	O	O	-	-	-	O	O	-	O
Spurious Emissions at Antenna Terminals	LTE 5	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 41	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiated Spurious Emission	LTE 5	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 41	-	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

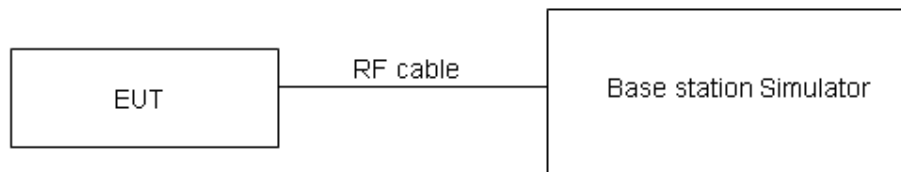
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$

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

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

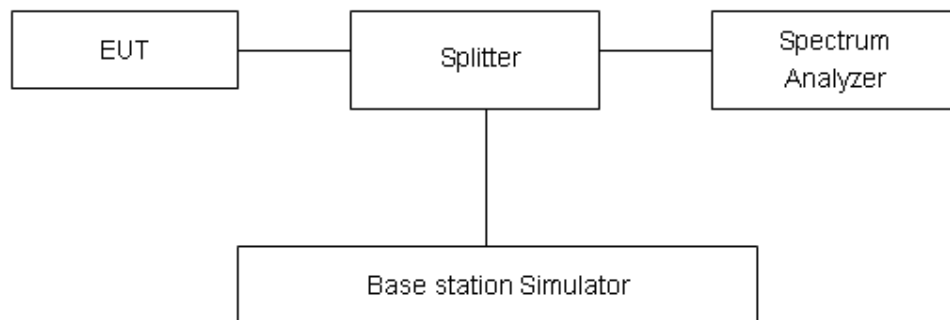
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%$ EBW, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

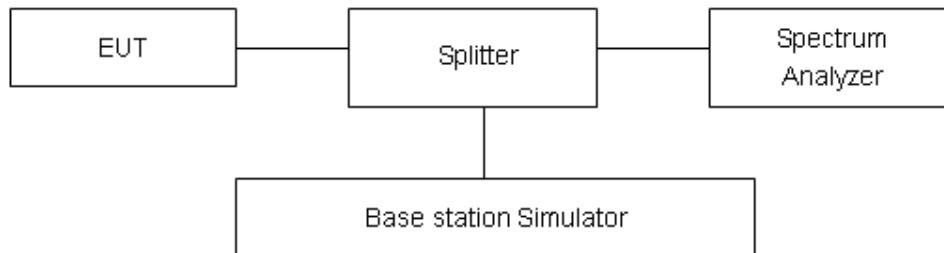
For LTE Band 41 the middle channel, high channel set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used; Low channel set RBW $\geq$ 2% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used. RBW is set to $\geq$ 1%EBW, VBW is set to 3x RBW on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.

Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

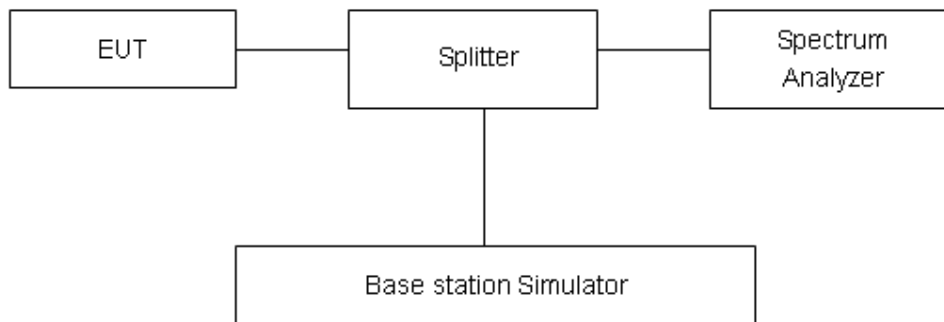
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

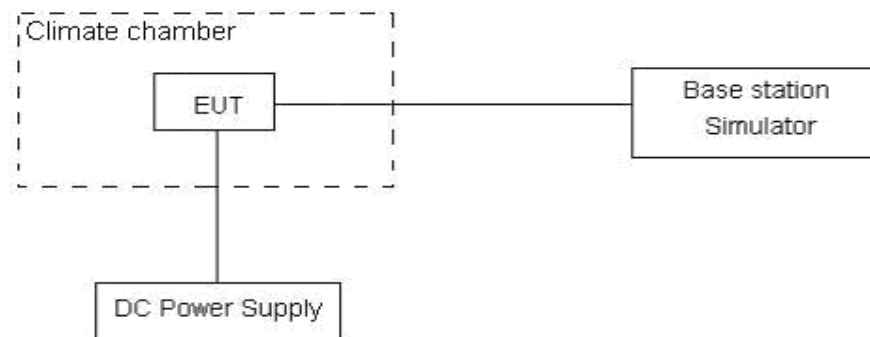
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 9V and 16V, with a nominal voltage of 12V.

Test setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01$ ppm.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

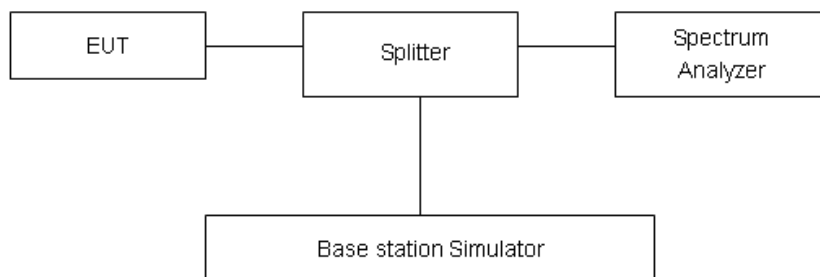
For 41, the RBW is set to 100KHz below 1G, and the factor is 10dB for 1MHz.

Sweep is set to AUTO.

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
above 1GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAG) should be recorded after test.
7. The measurement results are obtained as described below:

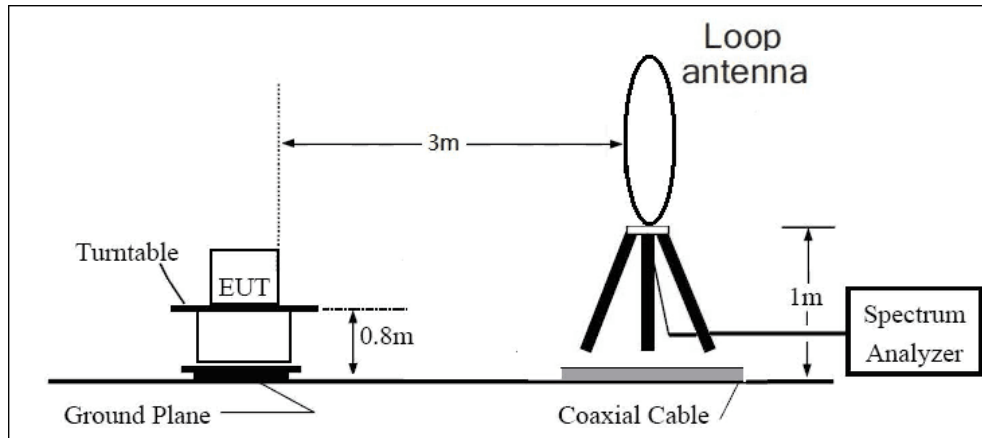
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

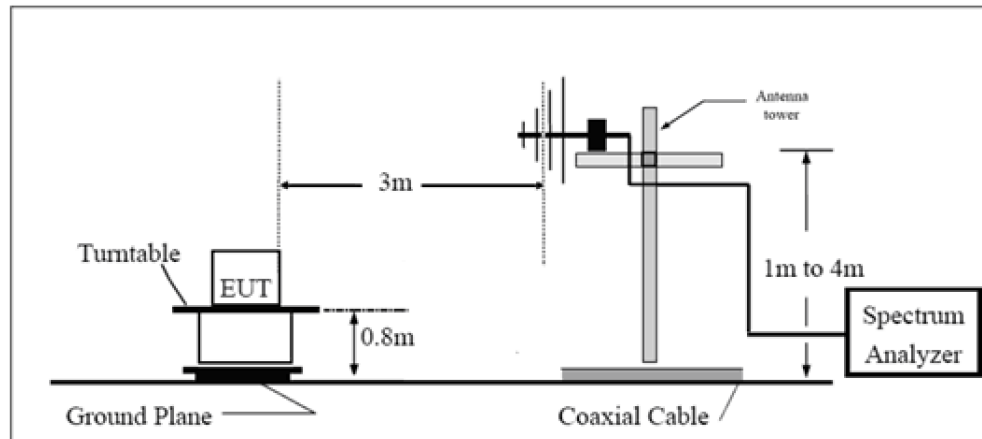
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

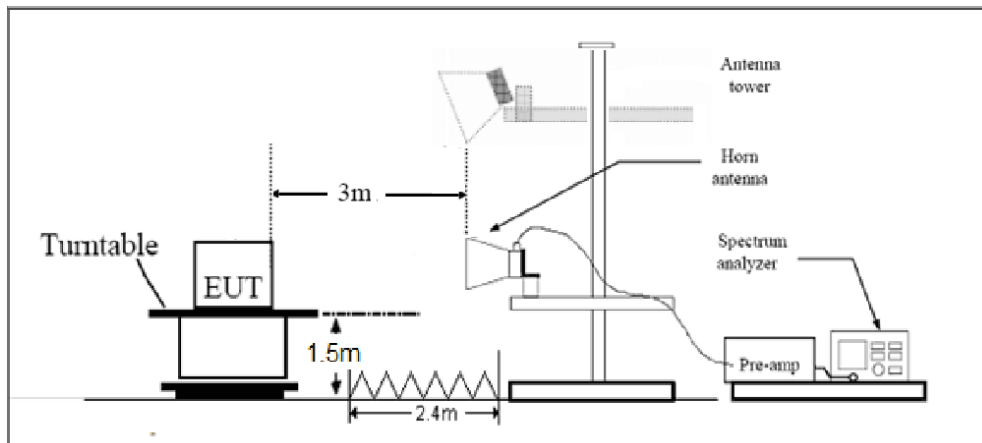
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective (Isotropic) Radiated Power

WCDMA Band V		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 4132	Channel 4183	Channel 4233	Channel 4132	Channel 4183	Channel 4233
		826.4 (MHz)	836.6 (MHz)	846.6 (MHz)	826.4 (MHz)	836.6 (MHz)	846.6 (MHz)
RMC		21.23	21.61	21.80	25.93	26.31	26.50
HSDPA	Sub - Test 1	20.69	21.03	21.24	25.39	25.73	25.94
	Sub - Test 2	20.68	21.05	21.21	25.38	25.75	25.91
	Sub - Test 3	20.15	20.55	20.73	24.85	25.25	25.43
	Sub - Test 4	20.16	20.56	20.71	24.86	25.26	25.41
HSUPA	Sub - Test 1	20.65	21.02	21.19	25.35	25.72	25.89
	Sub - Test 2	19.64	20.00	20.18	24.34	24.70	24.88
	Sub - Test 3	20.11	20.48	20.67	24.81	25.18	25.37
	Sub - Test 4	19.57	19.97	20.15	24.27	24.67	24.85
	Sub - Test 5	20.58	20.95	21.13	25.28	25.65	25.83
DC-HSDPA	Sub - Test 1	20.57	20.97	21.14	25.27	25.67	25.84
	Sub - Test 2	20.56	20.96	21.13	25.26	25.66	25.83
	Sub - Test 3	20.14	20.45	20.64	24.84	25.15	25.34
	Sub - Test 4	20.13	20.44	20.63	24.83	25.14	25.33
HSPA+	16QAM	20.12	20.52	20.70	24.82	25.22	25.40

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
Band5	1.4	20407	1	#0	QPSK	21.73	26.43
Band5	1.4	20407	1	#Mid	QPSK	21.84	26.54
Band5	1.4	20407	1	#Max	QPSK	21.87	26.57
Band5	1.4	20407	3	#0	QPSK	21.89	26.59
Band5	1.4	20407	3	#Mid	QPSK	22.01	26.71
Band5	1.4	20407	3	#Max	QPSK	21.97	26.67
Band5	1.4	20407	6	#0	QPSK	21.06	25.76
Band5	1.4	20407	1	#0	16QAM	20.77	25.47
Band5	1.4	20407	1	#Mid	16QAM	21.04	25.74
Band5	1.4	20407	1	#Max	16QAM	21.00	25.70
Band5	1.4	20407	3	#0	16QAM	21.06	25.76
Band5	1.4	20407	3	#Mid	16QAM	21.01	25.71
Band5	1.4	20407	3	#Max	16QAM	21.11	25.81
Band5	1.4	20407	6	#0	16QAM	20.04	24.74
Band5	1.4	20407	1	#0	64QAM	20.79	25.49
Band5	1.4	20407	1	#Mid	64QAM	21.12	25.82
Band5	1.4	20407	1	#Max	64QAM	20.77	25.47
Band5	1.4	20407	3	#0	64QAM	20.99	25.69
Band5	1.4	20407	3	#Mid	64QAM	21.04	25.74
Band5	1.4	20407	3	#Max	64QAM	21.07	25.77
Band5	1.4	20407	6	#0	64QAM	20.05	24.75
Band5	1.4	20525	1	#0	QPSK	22.07	26.77
Band5	1.4	20525	1	#Mid	QPSK	22.22	26.92
Band5	1.4	20525	1	#Max	QPSK	22.04	26.74
Band5	1.4	20525	3	#0	QPSK	22.02	26.72
Band5	1.4	20525	3	#Mid	QPSK	22.03	26.73
Band5	1.4	20525	3	#Max	QPSK	22.03	26.73
Band5	1.4	20525	6	#0	QPSK	21.02	25.72
Band5	1.4	20525	1	#0	16QAM	21.05	25.75
Band5	1.4	20525	1	#Mid	16QAM	20.96	25.66
Band5	1.4	20525	1	#Max	16QAM	20.80	25.50
Band5	1.4	20525	3	#0	16QAM	21.14	25.84
Band5	1.4	20525	3	#Mid	16QAM	21.07	25.77
Band5	1.4	20525	3	#Max	16QAM	21.14	25.84
Band5	1.4	20525	6	#0	16QAM	20.01	24.71
Band5	1.4	20525	1	#0	64QAM	20.87	25.57
Band5	1.4	20525	1	#Mid	64QAM	21.06	25.76
Band5	1.4	20525	1	#Max	64QAM	20.78	25.48
Band5	1.4	20525	3	#0	64QAM	20.95	25.65
Band5	1.4	20525	3	#Mid	64QAM	21.07	25.77

Band5	1.4	20525	3	#Max	64QAM	20.92	25.62
Band5	1.4	20525	6	#0	64QAM	19.82	24.52
Band5	1.4	20643	1	#0	QPSK	22.05	26.75
Band5	1.4	20643	1	#Mid	QPSK	22.27	26.97
Band5	1.4	20643	1	#Max	QPSK	22.14	26.84
Band5	1.4	20643	3	#0	QPSK	22.07	26.77
Band5	1.4	20643	3	#Mid	QPSK	22.06	26.76
Band5	1.4	20643	3	#Max	QPSK	22.13	26.83
Band5	1.4	20643	6	#0	QPSK	21.11	25.81
Band5	1.4	20643	1	#0	16QAM	20.87	25.57
Band5	1.4	20643	1	#Mid	16QAM	20.81	25.51
Band5	1.4	20643	1	#Max	16QAM	20.78	25.48
Band5	1.4	20643	3	#0	16QAM	20.99	25.69
Band5	1.4	20643	3	#Mid	16QAM	21.13	25.83
Band5	1.4	20643	3	#Max	16QAM	21.12	25.82
Band5	1.4	20643	6	#0	16QAM	20.04	24.74
Band5	1.4	20643	1	#0	64QAM	20.85	25.55
Band5	1.4	20643	1	#Mid	64QAM	20.97	25.67
Band5	1.4	20643	1	#Max	64QAM	20.77	25.47
Band5	1.4	20643	3	#0	64QAM	21.10	25.80
Band5	1.4	20643	3	#Mid	64QAM	21.12	25.82
Band5	1.4	20643	3	#Max	64QAM	21.05	25.75
Band5	1.4	20643	6	#0	64QAM	20.05	24.75
Band5	3	20415	1	#0	QPSK	22.01	26.71
Band5	3	20415	1	#Mid	QPSK	21.94	26.64
Band5	3	20415	1	#Max	QPSK	21.88	26.58
Band5	3	20415	8	#0	QPSK	21.11	25.81
Band5	3	20415	8	#Mid	QPSK	21.03	25.73
Band5	3	20415	8	#Max	QPSK	21.04	25.74
Band5	3	20415	15	#0	QPSK	21.07	25.77
Band5	3	20415	1	#0	16QAM	20.94	25.64
Band5	3	20415	1	#Mid	16QAM	20.85	25.55
Band5	3	20415	1	#Max	16QAM	20.97	25.67
Band5	3	20415	8	#0	16QAM	20.07	24.77
Band5	3	20415	8	#Mid	16QAM	19.98	24.68
Band5	3	20415	8	#Max	16QAM	19.95	24.65
Band5	3	20415	15	#0	16QAM	19.96	24.66
Band5	3	20415	1	#0	64QAM	20.83	25.53
Band5	3	20415	1	#Mid	64QAM	20.84	25.54
Band5	3	20415	1	#Max	64QAM	20.80	25.50
Band5	3	20415	8	#0	64QAM	19.98	24.68
Band5	3	20415	8	#Mid	64QAM	20.00	24.70
Band5	3	20415	8	#Max	64QAM	20.01	24.71

Band5	3	20415	15	#0	64QAM	20.03	24.73
Band5	3	20525	1	#0	QPSK	22.04	26.74
Band5	3	20525	1	#Mid	QPSK	21.94	26.64
Band5	3	20525	1	#Max	QPSK	21.98	26.68
Band5	3	20525	8	#0	QPSK	21.10	25.80
Band5	3	20525	8	#Mid	QPSK	21.07	25.77
Band5	3	20525	8	#Max	QPSK	21.02	25.72
Band5	3	20525	15	#0	QPSK	21.03	25.73
Band5	3	20525	1	#0	16QAM	20.91	25.61
Band5	3	20525	1	#Mid	16QAM	20.67	25.37
Band5	3	20525	1	#Max	16QAM	20.77	25.47
Band5	3	20525	8	#0	16QAM	20.11	24.81
Band5	3	20525	8	#Mid	16QAM	19.89	24.59
Band5	3	20525	8	#Max	16QAM	20.01	24.71
Band5	3	20525	15	#0	16QAM	20.00	24.70
Band5	3	20525	1	#0	64QAM	20.75	25.45
Band5	3	20525	1	#Mid	64QAM	20.94	25.64
Band5	3	20525	1	#Max	64QAM	20.73	25.43
Band5	3	20525	8	#0	64QAM	20.07	24.77
Band5	3	20525	8	#Mid	64QAM	20.04	24.74
Band5	3	20525	8	#Max	64QAM	19.96	24.66
Band5	3	20525	15	#0	64QAM	20.05	24.75
Band5	3	20635	1	#0	QPSK	22.04	26.74
Band5	3	20635	1	#Mid	QPSK	22.00	26.70
Band5	3	20635	1	#Max	QPSK	21.99	26.69
Band5	3	20635	8	#0	QPSK	21.11	25.81
Band5	3	20635	8	#Mid	QPSK	21.08	25.78
Band5	3	20635	8	#Max	QPSK	21.09	25.79
Band5	3	20635	15	#0	QPSK	21.05	25.75
Band5	3	20635	1	#0	16QAM	20.76	25.46
Band5	3	20635	1	#Mid	16QAM	20.97	25.67
Band5	3	20635	1	#Max	16QAM	21.11	25.81
Band5	3	20635	8	#0	16QAM	20.05	24.75
Band5	3	20635	8	#Mid	16QAM	20.11	24.81
Band5	3	20635	8	#Max	16QAM	19.97	24.67
Band5	3	20635	15	#0	16QAM	20.03	24.73
Band5	3	20635	1	#0	64QAM	20.83	25.53
Band5	3	20635	1	#Mid	64QAM	20.88	25.58
Band5	3	20635	1	#Max	64QAM	20.91	25.61
Band5	3	20635	8	#0	64QAM	20.12	24.82
Band5	3	20635	8	#Mid	64QAM	20.04	24.74
Band5	3	20635	8	#Max	64QAM	19.94	24.64
Band5	3	20635	15	#0	64QAM	20.03	24.73

Band5	5	20425	1	#0	QPSK	21.90	26.60
Band5	5	20425	1	#Mid	QPSK	22.11	26.81
Band5	5	20425	1	#Max	QPSK	21.96	26.66
Band5	5	20425	12	#0	QPSK	21.02	25.72
Band5	5	20425	12	#Mid	QPSK	21.07	25.77
Band5	5	20425	12	#Max	QPSK	21.04	25.74
Band5	5	20425	25	#0	QPSK	20.98	25.68
Band5	5	20425	1	#0	16QAM	20.87	25.57
Band5	5	20425	1	#Mid	16QAM	20.91	25.61
Band5	5	20425	1	#Max	16QAM	20.88	25.58
Band5	5	20425	12	#0	16QAM	19.82	24.52
Band5	5	20425	12	#Mid	16QAM	20.14	24.84
Band5	5	20425	12	#Max	16QAM	20.03	24.73
Band5	5	20425	25	#0	16QAM	20.03	24.73
Band5	5	20425	1	#0	64QAM	20.63	25.33
Band5	5	20425	1	#Mid	64QAM	20.80	25.50
Band5	5	20425	1	#Max	64QAM	20.73	25.43
Band5	5	20425	12	#0	64QAM	20.01	24.71
Band5	5	20425	12	#Mid	64QAM	20.07	24.77
Band5	5	20425	12	#Max	64QAM	20.03	24.73
Band5	5	20425	25	#0	64QAM	20.04	24.74
Band5	5	20525	1	#0	QPSK	22.00	26.70
Band5	5	20525	1	#Mid	QPSK	21.94	26.64
Band5	5	20525	1	#Max	QPSK	21.82	26.52
Band5	5	20525	12	#0	QPSK	21.00	25.70
Band5	5	20525	12	#Mid	QPSK	21.05	25.75
Band5	5	20525	12	#Max	QPSK	20.94	25.64
Band5	5	20525	25	#0	QPSK	21.09	25.79
Band5	5	20525	1	#0	16QAM	20.84	25.54
Band5	5	20525	1	#Mid	16QAM	20.87	25.57
Band5	5	20525	1	#Max	16QAM	20.94	25.64
Band5	5	20525	12	#0	16QAM	19.89	24.59
Band5	5	20525	12	#Mid	16QAM	20.02	24.72
Band5	5	20525	12	#Max	16QAM	20.01	24.71
Band5	5	20525	25	#0	16QAM	20.04	24.74
Band5	5	20525	1	#0	64QAM	20.76	25.46
Band5	5	20525	1	#Mid	64QAM	20.79	25.49
Band5	5	20525	1	#Max	64QAM	20.82	25.52
Band5	5	20525	12	#0	64QAM	19.98	24.68
Band5	5	20525	12	#Mid	64QAM	20.02	24.72
Band5	5	20525	12	#Max	64QAM	20.02	24.72
Band5	5	20525	25	#0	64QAM	20.05	24.75
Band5	5	20625	1	#0	QPSK	21.97	26.67

Band5	5	20625	1	#Mid	QPSK	22.22	26.92
Band5	5	20625	1	#Max	QPSK	22.11	26.81
Band5	5	20625	12	#0	QPSK	21.03	25.73
Band5	5	20625	12	#Mid	QPSK	21.15	25.85
Band5	5	20625	12	#Max	QPSK	21.01	25.71
Band5	5	20625	25	#0	QPSK	21.06	25.76
Band5	5	20625	1	#0	16QAM	20.71	25.41
Band5	5	20625	1	#Mid	16QAM	20.97	25.67
Band5	5	20625	1	#Max	16QAM	20.96	25.66
Band5	5	20625	12	#0	16QAM	20.03	24.73
Band5	5	20625	12	#Mid	16QAM	20.16	24.86
Band5	5	20625	12	#Max	16QAM	20.26	24.96
Band5	5	20625	25	#0	16QAM	20.05	24.75
Band5	5	20625	1	#0	64QAM	20.86	25.56
Band5	5	20625	1	#Mid	64QAM	20.73	25.43
Band5	5	20625	1	#Max	64QAM	20.83	25.53
Band5	5	20625	12	#0	64QAM	19.98	24.68
Band5	5	20625	12	#Mid	64QAM	20.04	24.74
Band5	5	20625	12	#Max	64QAM	19.98	24.68
Band5	5	20625	25	#0	64QAM	20.03	24.73
Band5	10	20450	1	#0	QPSK	22.08	26.78
Band5	10	20450	1	#Mid	QPSK	22.60	27.30
Band5	10	20450	1	#Max	QPSK	22.50	27.20
Band5	10	20450	25	#0	QPSK	21.13	25.83
Band5	10	20450	25	#Mid	QPSK	21.05	25.75
Band5	10	20450	25	#Max	QPSK	21.16	25.86
Band5	10	20450	50	#0	QPSK	21.12	25.82
Band5	10	20450	1	#0	16QAM	20.92	25.62
Band5	10	20450	1	#Mid	16QAM	21.02	25.72
Band5	10	20450	1	#Max	16QAM	20.72	25.42
Band5	10	20450	25	#0	16QAM	20.04	24.74
Band5	10	20450	25	#Mid	16QAM	20.04	24.74
Band5	10	20450	25	#Max	16QAM	20.13	24.83
Band5	10	20450	50	#0	16QAM	20.07	24.77
Band5	10	20450	1	#0	64QAM	20.99	25.69
Band5	10	20450	1	#Mid	64QAM	20.87	25.57
Band5	10	20450	1	#Max	64QAM	20.71	25.41
Band5	10	20450	25	#0	64QAM	20.07	24.77
Band5	10	20450	25	#Mid	64QAM	20.02	24.72
Band5	10	20450	25	#Max	64QAM	20.07	24.77
Band5	10	20450	50	#0	64QAM	20.18	24.88
Band5	10	20525	1	#0	QPSK	22.11	26.81
Band5	10	20525	1	#Mid	QPSK	22.42	27.12

Band5	10	20525	1	#Max	QPSK	21.86	26.56
Band5	10	20525	25	#0	QPSK	21.08	25.78
Band5	10	20525	25	#Mid	QPSK	21.10	25.80
Band5	10	20525	25	#Max	QPSK	21.01	25.71
Band5	10	20525	50	#0	QPSK	21.08	25.78
Band5	10	20525	1	#0	16QAM	20.87	25.57
Band5	10	20525	1	#Mid	16QAM	20.88	25.58
Band5	10	20525	1	#Max	16QAM	20.66	25.36
Band5	10	20525	25	#0	16QAM	20.05	24.75
Band5	10	20525	25	#Mid	16QAM	20.07	24.77
Band5	10	20525	25	#Max	16QAM	20.03	24.73
Band5	10	20525	50	#0	16QAM	20.02	24.72
Band5	10	20525	1	#0	64QAM	20.94	25.64
Band5	10	20525	1	#Mid	64QAM	20.94	25.64
Band5	10	20525	1	#Max	64QAM	20.70	25.40
Band5	10	20525	25	#0	64QAM	20.13	24.83
Band5	10	20525	25	#Mid	64QAM	20.04	24.74
Band5	10	20525	25	#Max	64QAM	20.05	24.75
Band5	10	20525	50	#0	64QAM	20.12	24.82
Band5	10	20600	1	#0	QPSK	21.98	26.68
Band5	10	20600	1	#Mid	QPSK	22.46	27.16
Band5	10	20600	1	#Max	QPSK	22.45	27.15
Band5	10	20600	25	#0	QPSK	21.02	25.72
Band5	10	20600	25	#Mid	QPSK	21.11	25.81
Band5	10	20600	25	#Max	QPSK	21.18	25.88
Band5	10	20600	50	#0	QPSK	21.03	25.73
Band5	10	20600	1	#0	16QAM	20.99	25.69
Band5	10	20600	1	#Mid	16QAM	21.10	25.80
Band5	10	20600	1	#Max	16QAM	20.83	25.53
Band5	10	20600	25	#0	16QAM	19.98	24.68
Band5	10	20600	25	#Mid	16QAM	20.05	24.75
Band5	10	20600	25	#Max	16QAM	20.09	24.79
Band5	10	20600	50	#0	16QAM	20.03	24.73
Band5	10	20600	1	#0	64QAM	20.93	25.63
Band5	10	20600	1	#Mid	64QAM	21.05	25.75
Band5	10	20600	1	#Max	64QAM	20.96	25.66
Band5	10	20600	25	#0	64QAM	20.07	24.77
Band5	10	20600	25	#Mid	64QAM	20.05	24.75
Band5	10	20600	25	#Max	64QAM	20.03	24.73
Band5	10	20600	50	#0	64QAM	20.01	24.71

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
Band41(2535-2655)	5	40065	1	#0	QPSK	21.84	28.69
Band41(2535-2655)	5	40065	1	#Mid	QPSK	21.97	28.82
Band41(2535-2655)	5	40065	1	#Max	QPSK	21.99	28.84
Band41(2535-2655)	5	40065	12	#0	QPSK	20.90	27.75
Band41(2535-2655)	5	40065	12	#Mid	QPSK	20.94	27.79
Band41(2535-2655)	5	40065	12	#Max	QPSK	20.89	27.74
Band41(2535-2655)	5	40065	25	#0	QPSK	20.95	27.80
Band41(2535-2655)	5	40065	1	#0	16QAM	20.32	27.17
Band41(2535-2655)	5	40065	1	#Mid	16QAM	20.26	27.11
Band41(2535-2655)	5	40065	1	#Max	16QAM	20.28	27.13
Band41(2535-2655)	5	40065	12	#0	16QAM	20.00	26.85
Band41(2535-2655)	5	40065	12	#Mid	16QAM	20.11	26.96
Band41(2535-2655)	5	40065	12	#Max	16QAM	20.12	26.97
Band41(2535-2655)	5	40065	25	#0	16QAM	19.98	26.83
Band41(2535-2655)	5	40065	1	#0	64QAM	20.52	27.37
Band41(2535-2655)	5	40065	1	#Mid	64QAM	20.51	27.36
Band41(2535-2655)	5	40065	1	#Max	64QAM	20.51	27.36
Band41(2535-2655)	5	40065	12	#0	64QAM	20.00	26.85
Band41(2535-2655)	5	40065	12	#Mid	64QAM	20.02	26.87
Band41(2535-2655)	5	40065	12	#Max	64QAM	20.04	26.89
Band41(2535-2655)	5	40065	25	#0	64QAM	19.98	26.83
Band41(2535-2655)	5	40640	1	#0	QPSK	21.78	28.63
Band41(2535-2655)	5	40640	1	#Mid	QPSK	21.85	28.70
Band41(2535-2655)	5	40640	1	#Max	QPSK	21.70	28.55
Band41(2535-2655)	5	40640	12	#0	QPSK	21.04	27.89
Band41(2535-2655)	5	40640	12	#Mid	QPSK	20.95	27.80
Band41(2535-2655)	5	40640	12	#Max	QPSK	20.97	27.82
Band41(2535-2655)	5	40640	25	#0	QPSK	20.98	27.83
Band41(2535-2655)	5	40640	1	#0	16QAM	20.48	27.33
Band41(2535-2655)	5	40640	1	#Mid	16QAM	20.52	27.37
Band41(2535-2655)	5	40640	1	#Max	16QAM	20.46	27.31
Band41(2535-2655)	5	40640	12	#0	16QAM	19.82	26.67
Band41(2535-2655)	5	40640	12	#Mid	16QAM	19.86	26.71
Band41(2535-2655)	5	40640	12	#Max	16QAM	19.89	26.74
Band41(2535-2655)	5	40640	25	#0	16QAM	19.98	26.83
Band41(2535-2655)	5	40640	1	#0	64QAM	20.66	27.51
Band41(2535-2655)	5	40640	1	#Mid	64QAM	20.70	27.55
Band41(2535-2655)	5	40640	1	#Max	64QAM	20.62	27.47
Band41(2535-2655)	5	40640	12	#0	64QAM	20.01	26.86
Band41(2535-2655)	5	40640	12	#Mid	64QAM	19.98	26.83

Band41(2535-2655)	5	40640	12	#Max	64QAM	19.86	26.71
Band41(2535-2655)	5	40640	25	#0	64QAM	19.94	26.79
Band41(2535-2655)	5	41215	1	#0	QPSK	21.58	28.43
Band41(2535-2655)	5	41215	1	#Mid	QPSK	21.77	28.62
Band41(2535-2655)	5	41215	1	#Max	QPSK	21.63	28.48
Band41(2535-2655)	5	41215	12	#0	QPSK	20.77	27.62
Band41(2535-2655)	5	41215	12	#Mid	QPSK	20.82	27.67
Band41(2535-2655)	5	41215	12	#Max	QPSK	20.67	27.52
Band41(2535-2655)	5	41215	25	#0	QPSK	20.74	27.59
Band41(2535-2655)	5	41215	1	#0	16QAM	20.32	27.17
Band41(2535-2655)	5	41215	1	#Mid	16QAM	20.44	27.29
Band41(2535-2655)	5	41215	1	#Max	16QAM	20.09	26.94
Band41(2535-2655)	5	41215	12	#0	16QAM	19.57	26.42
Band41(2535-2655)	5	41215	12	#Mid	16QAM	19.75	26.60
Band41(2535-2655)	5	41215	12	#Max	16QAM	19.53	26.38
Band41(2535-2655)	5	41215	25	#0	16QAM	19.80	26.65
Band41(2535-2655)	5	41215	1	#0	64QAM	20.41	27.26
Band41(2535-2655)	5	41215	1	#Mid	64QAM	20.39	27.24
Band41(2535-2655)	5	41215	1	#Max	64QAM	20.28	27.13
Band41(2535-2655)	5	41215	12	#0	64QAM	19.67	26.52
Band41(2535-2655)	5	41215	12	#Mid	64QAM	19.75	26.60
Band41(2535-2655)	5	41215	12	#Max	64QAM	19.66	26.51
Band41(2535-2655)	5	41215	25	#0	64QAM	19.80	26.65
Band41(2535-2655)	10	40090	1	#0	QPSK	21.80	28.65
Band41(2535-2655)	10	40090	1	#Mid	QPSK	22.08	28.93
Band41(2535-2655)	10	40090	1	#Max	QPSK	22.06	28.91
Band41(2535-2655)	10	40090	25	#0	QPSK	20.93	27.78
Band41(2535-2655)	10	40090	25	#Mid	QPSK	21.03	27.88
Band41(2535-2655)	10	40090	25	#Max	QPSK	20.97	27.82
Band41(2535-2655)	10	40090	50	#0	QPSK	20.97	27.82
Band41(2535-2655)	10	40090	1	#0	16QAM	20.52	27.37
Band41(2535-2655)	10	40090	1	#Mid	16QAM	20.72	27.57
Band41(2535-2655)	10	40090	1	#Max	16QAM	20.54	27.39
Band41(2535-2655)	10	40090	25	#0	16QAM	19.98	26.83
Band41(2535-2655)	10	40090	25	#Mid	16QAM	19.98	26.83
Band41(2535-2655)	10	40090	25	#Max	16QAM	20.14	26.99
Band41(2535-2655)	10	40090	50	#0	16QAM	20.01	26.86
Band41(2535-2655)	10	40090	1	#0	64QAM	20.66	27.51
Band41(2535-2655)	10	40090	1	#Mid	64QAM	20.80	27.65
Band41(2535-2655)	10	40090	1	#Max	64QAM	20.70	27.55
Band41(2535-2655)	10	40090	25	#0	64QAM	19.93	26.78
Band41(2535-2655)	10	40090	25	#Mid	64QAM	20.12	26.97
Band41(2535-2655)	10	40090	25	#Max	64QAM	20.10	26.95

Band41(2535-2655)	10	40090	50	#0	64QAM	19.98	26.83
Band41(2535-2655)	10	40640	1	#0	QPSK	22.09	28.94
Band41(2535-2655)	10	40640	1	#Mid	QPSK	21.99	28.84
Band41(2535-2655)	10	40640	1	#Max	QPSK	21.94	28.79
Band41(2535-2655)	10	40640	25	#0	QPSK	21.15	28.00
Band41(2535-2655)	10	40640	25	#Mid	QPSK	21.10	27.95
Band41(2535-2655)	10	40640	25	#Max	QPSK	21.02	27.87
Band41(2535-2655)	10	40640	50	#0	QPSK	20.98	27.83
Band41(2535-2655)	10	40640	1	#0	16QAM	20.58	27.43
Band41(2535-2655)	10	40640	1	#Mid	16QAM	20.62	27.47
Band41(2535-2655)	10	40640	1	#Max	16QAM	20.49	27.34
Band41(2535-2655)	10	40640	25	#0	16QAM	20.07	26.92
Band41(2535-2655)	10	40640	25	#Mid	16QAM	20.01	26.86
Band41(2535-2655)	10	40640	25	#Max	16QAM	19.97	26.82
Band41(2535-2655)	10	40640	50	#0	16QAM	19.96	26.81
Band41(2535-2655)	10	40640	1	#0	64QAM	20.78	27.63
Band41(2535-2655)	10	40640	1	#Mid	64QAM	20.78	27.63
Band41(2535-2655)	10	40640	1	#Max	64QAM	20.83	27.68
Band41(2535-2655)	10	40640	25	#0	64QAM	20.07	26.92
Band41(2535-2655)	10	40640	25	#Mid	64QAM	20.02	26.87
Band41(2535-2655)	10	40640	25	#Max	64QAM	19.98	26.83
Band41(2535-2655)	10	40640	50	#0	64QAM	19.95	26.80
Band41(2535-2655)	10	41190	1	#0	QPSK	21.86	28.71
Band41(2535-2655)	10	41190	1	#Mid	QPSK	21.80	28.65
Band41(2535-2655)	10	41190	1	#Max	QPSK	21.57	28.42
Band41(2535-2655)	10	41190	25	#0	QPSK	20.98	27.83
Band41(2535-2655)	10	41190	25	#Mid	QPSK	20.90	27.75
Band41(2535-2655)	10	41190	25	#Max	QPSK	20.76	27.61
Band41(2535-2655)	10	41190	50	#0	QPSK	20.88	27.73
Band41(2535-2655)	10	41190	1	#0	16QAM	20.49	27.34
Band41(2535-2655)	10	41190	1	#Mid	16QAM	20.37	27.22
Band41(2535-2655)	10	41190	1	#Max	16QAM	20.16	27.01
Band41(2535-2655)	10	41190	25	#0	16QAM	19.97	26.82
Band41(2535-2655)	10	41190	25	#Mid	16QAM	19.87	26.72
Band41(2535-2655)	10	41190	25	#Max	16QAM	19.73	26.58
Band41(2535-2655)	10	41190	50	#0	16QAM	19.93	26.78
Band41(2535-2655)	10	41190	1	#0	64QAM	20.78	27.63
Band41(2535-2655)	10	41190	1	#Mid	64QAM	20.70	27.55
Band41(2535-2655)	10	41190	1	#Max	64QAM	20.28	27.13
Band41(2535-2655)	10	41190	25	#0	64QAM	19.98	26.83
Band41(2535-2655)	10	41190	25	#Mid	64QAM	19.82	26.67
Band41(2535-2655)	10	41190	25	#Max	64QAM	19.82	26.67
Band41(2535-2655)	10	41190	50	#0	64QAM	19.94	26.79

Band41(2535-2655)	15	40115	1	#0	QPSK	22.13	28.98
Band41(2535-2655)	15	40115	1	#Mid	QPSK	22.00	28.85
Band41(2535-2655)	15	40115	1	#Max	QPSK	21.94	28.79
Band41(2535-2655)	15	40115	36	#0	QPSK	21.01	27.86
Band41(2535-2655)	15	40115	36	#Mid	QPSK	21.04	27.89
Band41(2535-2655)	15	40115	36	#Max	QPSK	21.03	27.88
Band41(2535-2655)	15	40115	75	#0	QPSK	21.03	27.88
Band41(2535-2655)	15	40115	1	#0	16QAM	20.54	27.39
Band41(2535-2655)	15	40115	1	#Mid	16QAM	20.51	27.36
Band41(2535-2655)	15	40115	1	#Max	16QAM	20.58	27.43
Band41(2535-2655)	15	40115	36	#0	16QAM	20.05	26.90
Band41(2535-2655)	15	40115	36	#Mid	16QAM	20.09	26.94
Band41(2535-2655)	15	40115	36	#Max	16QAM	20.09	26.94
Band41(2535-2655)	15	40115	75	#0	16QAM	20.05	26.90
Band41(2535-2655)	15	40115	1	#0	64QAM	20.70	27.55
Band41(2535-2655)	15	40115	1	#Mid	64QAM	20.73	27.58
Band41(2535-2655)	15	40115	1	#Max	64QAM	20.58	27.43
Band41(2535-2655)	15	40115	36	#0	64QAM	20.04	26.89
Band41(2535-2655)	15	40115	36	#Mid	64QAM	20.07	26.92
Band41(2535-2655)	15	40115	36	#Max	64QAM	20.10	26.95
Band41(2535-2655)	15	40115	75	#0	64QAM	20.05	26.90
Band41(2535-2655)	15	40640	1	#0	QPSK	21.98	28.83
Band41(2535-2655)	15	40640	1	#Mid	QPSK	21.94	28.79
Band41(2535-2655)	15	40640	1	#Max	QPSK	21.99	28.84
Band41(2535-2655)	15	40640	36	#0	QPSK	21.13	27.98
Band41(2535-2655)	15	40640	36	#Mid	QPSK	21.02	27.87
Band41(2535-2655)	15	40640	36	#Max	QPSK	21.07	27.92
Band41(2535-2655)	15	40640	75	#0	QPSK	21.02	27.87
Band41(2535-2655)	15	40640	1	#0	16QAM	20.70	27.55
Band41(2535-2655)	15	40640	1	#Mid	16QAM	20.47	27.32
Band41(2535-2655)	15	40640	1	#Max	16QAM	20.60	27.45
Band41(2535-2655)	15	40640	36	#0	16QAM	20.05	26.90
Band41(2535-2655)	15	40640	36	#Mid	16QAM	19.96	26.81
Band41(2535-2655)	15	40640	36	#Max	16QAM	20.03	26.88
Band41(2535-2655)	15	40640	75	#0	16QAM	19.96	26.81
Band41(2535-2655)	15	40640	1	#0	64QAM	20.89	27.74
Band41(2535-2655)	15	40640	1	#Mid	64QAM	20.76	27.61
Band41(2535-2655)	15	40640	1	#Max	64QAM	20.62	27.47
Band41(2535-2655)	15	40640	36	#0	64QAM	20.10	26.95
Band41(2535-2655)	15	40640	36	#Mid	64QAM	19.96	26.81
Band41(2535-2655)	15	40640	36	#Max	64QAM	20.00	26.85
Band41(2535-2655)	15	40640	75	#0	64QAM	19.97	26.82
Band41(2535-2655)	15	41165	1	#0	QPSK	21.95	28.80

Band41(2535-2655)	15	41165	1	#Mid	QPSK	21.98	28.83
Band41(2535-2655)	15	41165	1	#Max	QPSK	21.64	28.49
Band41(2535-2655)	15	41165	36	#0	QPSK	21.02	27.87
Band41(2535-2655)	15	41165	36	#Mid	QPSK	21.04	27.89
Band41(2535-2655)	15	41165	36	#Max	QPSK	20.82	27.67
Band41(2535-2655)	15	41165	75	#0	QPSK	20.96	27.81
Band41(2535-2655)	15	41165	1	#0	16QAM	20.76	27.61
Band41(2535-2655)	15	41165	1	#Mid	16QAM	20.45	27.30
Band41(2535-2655)	15	41165	1	#Max	16QAM	20.17	27.02
Band41(2535-2655)	15	41165	36	#0	16QAM	20.00	26.85
Band41(2535-2655)	15	41165	36	#Mid	16QAM	20.02	26.87
Band41(2535-2655)	15	41165	36	#Max	16QAM	19.79	26.64
Band41(2535-2655)	15	41165	75	#0	16QAM	19.91	26.76
Band41(2535-2655)	15	41165	1	#0	64QAM	20.89	27.74
Band41(2535-2655)	15	41165	1	#Mid	64QAM	20.67	27.52
Band41(2535-2655)	15	41165	1	#Max	64QAM	20.42	27.27
Band41(2535-2655)	15	41165	36	#0	64QAM	20.01	26.86
Band41(2535-2655)	15	41165	36	#Mid	64QAM	20.01	26.86
Band41(2535-2655)	15	41165	36	#Max	64QAM	19.79	26.64
Band41(2535-2655)	15	41165	75	#0	64QAM	19.98	26.83
Band41(2535-2655)	20	40140	1	#0	QPSK	21.99	28.84
Band41(2535-2655)	20	40140	1	#Mid	QPSK	22.13	28.98
Band41(2535-2655)	20	40140	1	#Max	QPSK	21.97	28.82
Band41(2535-2655)	20	40140	50	#0	QPSK	20.91	27.76
Band41(2535-2655)	20	40140	50	#Mid	QPSK	21.11	27.96
Band41(2535-2655)	20	40140	50	#Max	QPSK	20.93	27.78
Band41(2535-2655)	20	40140	100	#0	QPSK	20.94	27.79
Band41(2535-2655)	20	40140	1	#0	16QAM	20.38	27.23
Band41(2535-2655)	20	40140	1	#Mid	16QAM	20.65	27.50
Band41(2535-2655)	20	40140	1	#Max	16QAM	20.55	27.40
Band41(2535-2655)	20	40140	50	#0	16QAM	19.97	26.82
Band41(2535-2655)	20	40140	50	#Mid	16QAM	20.19	27.04
Band41(2535-2655)	20	40140	50	#Max	16QAM	19.98	26.83
Band41(2535-2655)	20	40140	100	#0	16QAM	20.04	26.89
Band41(2535-2655)	20	40140	1	#0	64QAM	20.51	27.36
Band41(2535-2655)	20	40140	1	#Mid	64QAM	20.91	27.76
Band41(2535-2655)	20	40140	1	#Max	64QAM	20.81	27.66
Band41(2535-2655)	20	40140	50	#0	64QAM	19.95	26.80
Band41(2535-2655)	20	40140	50	#Mid	64QAM	20.18	27.03
Band41(2535-2655)	20	40140	50	#Max	64QAM	19.98	26.83
Band41(2535-2655)	20	40140	100	#0	64QAM	20.27	27.12
Band41(2535-2655)	20	40640	1	#0	QPSK	22.08	28.93
Band41(2535-2655)	20	40640	1	#Mid	QPSK	21.95	28.80

Band41(2535-2655)	20	40640	1	#Max	QPSK	21.89	28.74
Band41(2535-2655)	20	40640	50	#0	QPSK	21.17	28.02
Band41(2535-2655)	20	40640	50	#Mid	QPSK	21.08	27.93
Band41(2535-2655)	20	40640	50	#Max	QPSK	21.10	27.95
Band41(2535-2655)	20	40640	100	#0	QPSK	21.02	27.87
Band41(2535-2655)	20	40640	1	#0	16QAM	20.43	27.28
Band41(2535-2655)	20	40640	1	#Mid	16QAM	20.58	27.43
Band41(2535-2655)	20	40640	1	#Max	16QAM	20.30	27.15
Band41(2535-2655)	20	40640	50	#0	16QAM	20.11	26.96
Band41(2535-2655)	20	40640	50	#Mid	16QAM	20.02	26.87
Band41(2535-2655)	20	40640	50	#Max	16QAM	19.97	26.82
Band41(2535-2655)	20	40640	100	#0	16QAM	19.98	26.83
Band41(2535-2655)	20	40640	1	#0	64QAM	20.70	27.55
Band41(2535-2655)	20	40640	1	#Mid	64QAM	20.80	27.65
Band41(2535-2655)	20	40640	1	#Max	64QAM	20.52	27.37
Band41(2535-2655)	20	40640	50	#0	64QAM	20.07	26.92
Band41(2535-2655)	20	40640	50	#Mid	64QAM	20.00	26.85
Band41(2535-2655)	20	40640	50	#Max	64QAM	20.01	26.86
Band41(2535-2655)	20	40640	100	#0	64QAM	20.01	26.86
Band41(2535-2655)	20	41140	1	#0	QPSK	21.94	28.79
Band41(2535-2655)	20	41140	1	#Mid	QPSK	21.94	28.79
Band41(2535-2655)	20	41140	1	#Max	QPSK	21.66	28.51
Band41(2535-2655)	20	41140	50	#0	QPSK	21.21	28.06
Band41(2535-2655)	20	41140	50	#Mid	QPSK	21.09	27.94
Band41(2535-2655)	20	41140	50	#Max	QPSK	20.93	27.78
Band41(2535-2655)	20	41140	100	#0	QPSK	21.06	27.91
Band41(2535-2655)	20	41140	1	#0	16QAM	20.62	27.47
Band41(2535-2655)	20	41140	1	#Mid	16QAM	20.59	27.44
Band41(2535-2655)	20	41140	1	#Max	16QAM	20.18	27.03
Band41(2535-2655)	20	41140	50	#0	16QAM	20.17	27.02
Band41(2535-2655)	20	41140	50	#Mid	16QAM	20.05	26.90
Band41(2535-2655)	20	41140	50	#Max	16QAM	19.96	26.81
Band41(2535-2655)	20	41140	100	#0	16QAM	20.02	26.87
Band41(2535-2655)	20	41140	1	#0	64QAM	20.73	27.58
Band41(2535-2655)	20	41140	1	#Mid	64QAM	20.77	27.62
Band41(2535-2655)	20	41140	1	#Max	64QAM	20.25	27.10
Band41(2535-2655)	20	41140	50	#0	64QAM	20.14	26.99
Band41(2535-2655)	20	41140	50	#Mid	64QAM	20.04	26.89
Band41(2535-2655)	20	41140	50	#Max	64QAM	19.88	26.73
Band41(2535-2655)	20	41140	100	#0	64QAM	20.00	26.85

6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
WCDMA B5	4132	826.4	4.16	4.72
	4183	836.6	4.16	4.72
	4233	846.6	4.15	4.76

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)
Band5	1.4	20407	6	#0	QPSK	1.103	1.281
Band5	1.4	20407	6	#0	16QAM	1.102	1.295
Band5	1.4	20407	6	#0	64QAM	1.097	1.269
Band5	1.4	20525	6	#0	QPSK	1.092	1.282
Band5	1.4	20525	6	#0	16QAM	1.093	1.295
Band5	1.4	20525	6	#0	64QAM	1.100	1.281
Band5	1.4	20643	6	#0	QPSK	1.095	1.293
Band5	1.4	20643	6	#0	16QAM	1.094	1.269
Band5	1.4	20643	6	#0	64QAM	1.096	1.265
Band5	3	20415	15	#0	QPSK	2.716	2.967
Band5	3	20415	15	#0	16QAM	2.703	2.944
Band5	3	20415	15	#0	64QAM	2.696	2.967
Band5	3	20525	15	#0	QPSK	2.709	2.975
Band5	3	20525	15	#0	16QAM	2.691	2.947
Band5	3	20525	15	#0	64QAM	2.714	2.991
Band5	3	20635	15	#0	QPSK	2.706	2.970
Band5	3	20635	15	#0	16QAM	2.706	2.973
Band5	3	20635	15	#0	64QAM	2.720	2.962
Band5	5	20425	25	#0	QPSK	4.501	4.963
Band5	5	20425	25	#0	16QAM	4.505	4.920
Band5	5	20425	25	#0	64QAM	4.503	4.997
Band5	5	20525	25	#0	QPSK	4.493	4.984
Band5	5	20525	25	#0	16QAM	4.507	4.986
Band5	5	20525	25	#0	64QAM	4.489	4.937
Band5	5	20625	25	#0	QPSK	4.503	4.965
Band5	5	20625	25	#0	16QAM	4.510	4.956
Band5	5	20625	25	#0	64QAM	4.502	5.026
Band5	10	20450	50	#0	QPSK	8.981	9.851
Band5	10	20450	50	#0	16QAM	8.988	9.788

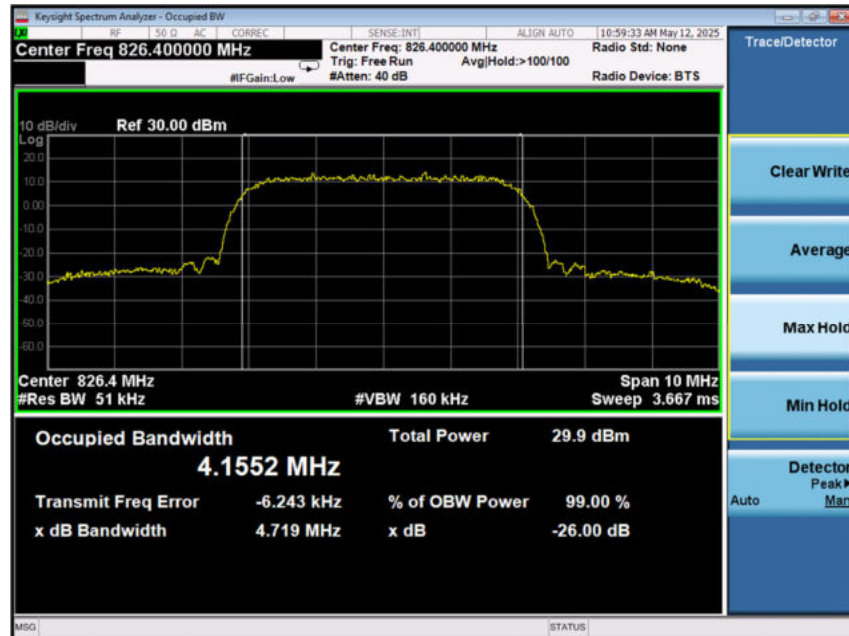
Band5	10	20450	50	#0	64QAM	9.007	9.827
Band5	10	20525	50	#0	QPSK	8.968	9.727
Band5	10	20525	50	#0	16QAM	8.976	9.676
Band5	10	20525	50	#0	64QAM	8.970	9.661
Band5	10	20600	50	#0	QPSK	8.980	9.776
Band5	10	20600	50	#0	16QAM	8.949	9.818
Band5	10	20600	50	#0	64QAM	8.969	9.805

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)
Band41(2535-2655)	5	40065	25	#0	QPSK	4.524	4.941
Band41(2535-2655)	5	40065	25	#0	16QAM	4.505	4.844
Band41(2535-2655)	5	40065	25	#0	64QAM	4.509	4.889
Band41(2535-2655)	5	40640	25	#0	QPSK	4.499	5.000
Band41(2535-2655)	5	40640	25	#0	16QAM	4.496	4.914
Band41(2535-2655)	5	40640	25	#0	64QAM	4.479	4.848
Band41(2535-2655)	5	41215	25	#0	QPSK	4.526	5.487
Band41(2535-2655)	5	41215	25	#0	16QAM	4.484	5.781
Band41(2535-2655)	5	41215	25	#0	64QAM	4.497	4.870
Band41(2535-2655)	10	40090	50	#0	QPSK	8.933	9.731
Band41(2535-2655)	10	40090	50	#0	16QAM	8.955	10.443
Band41(2535-2655)	10	40090	50	#0	64QAM	8.950	10.638
Band41(2535-2655)	10	40640	50	#0	QPSK	8.961	10.360
Band41(2535-2655)	10	40640	50	#0	16QAM	8.953	9.579
Band41(2535-2655)	10	40640	50	#0	64QAM	8.931	10.019
Band41(2535-2655)	10	41190	50	#0	QPSK	8.966	9.684
Band41(2535-2655)	10	41190	50	#0	16QAM	8.980	9.611
Band41(2535-2655)	10	41190	50	#0	64QAM	8.991	10.154
Band41(2535-2655)	15	40115	75	#0	QPSK	13.352	14.358
Band41(2535-2655)	15	40115	75	#0	16QAM	13.411	16.096
Band41(2535-2655)	15	40115	75	#0	64QAM	13.400	14.766
Band41(2535-2655)	15	40640	75	#0	QPSK	13.464	14.343
Band41(2535-2655)	15	40640	75	#0	16QAM	13.444	15.108
Band41(2535-2655)	15	40640	75	#0	64QAM	13.432	14.308
Band41(2535-2655)	15	41165	75	#0	QPSK	13.410	14.296
Band41(2535-2655)	15	41165	75	#0	16QAM	13.425	14.413
Band41(2535-2655)	15	41165	75	#0	64QAM	13.423	15.228
Band41(2535-2655)	20	40140	100	#0	QPSK	17.852	19.188
Band41(2535-2655)	20	40140	100	#0	16QAM	17.818	19.852

Band41(2535-2655)	20	40140	100	#0	64QAM	17.858	19.096
Band41(2535-2655)	20	40640	100	#0	QPSK	17.957	19.336
Band41(2535-2655)	20	40640	100	#0	16QAM	17.896	19.409
Band41(2535-2655)	20	40640	100	#0	64QAM	17.901	19.621
Band41(2535-2655)	20	41140	100	#0	QPSK	17.992	18.994
Band41(2535-2655)	20	41140	100	#0	16QAM	17.831	19.905
Band41(2535-2655)	20	41140	100	#0	64QAM	17.916	20.373



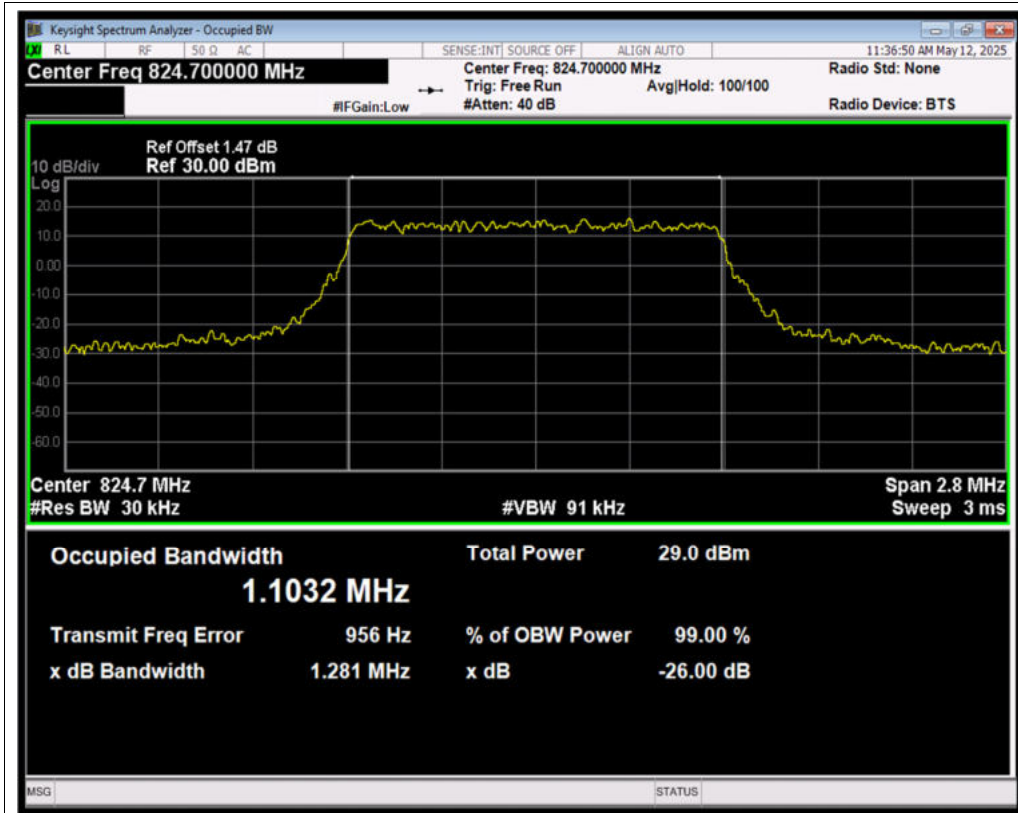
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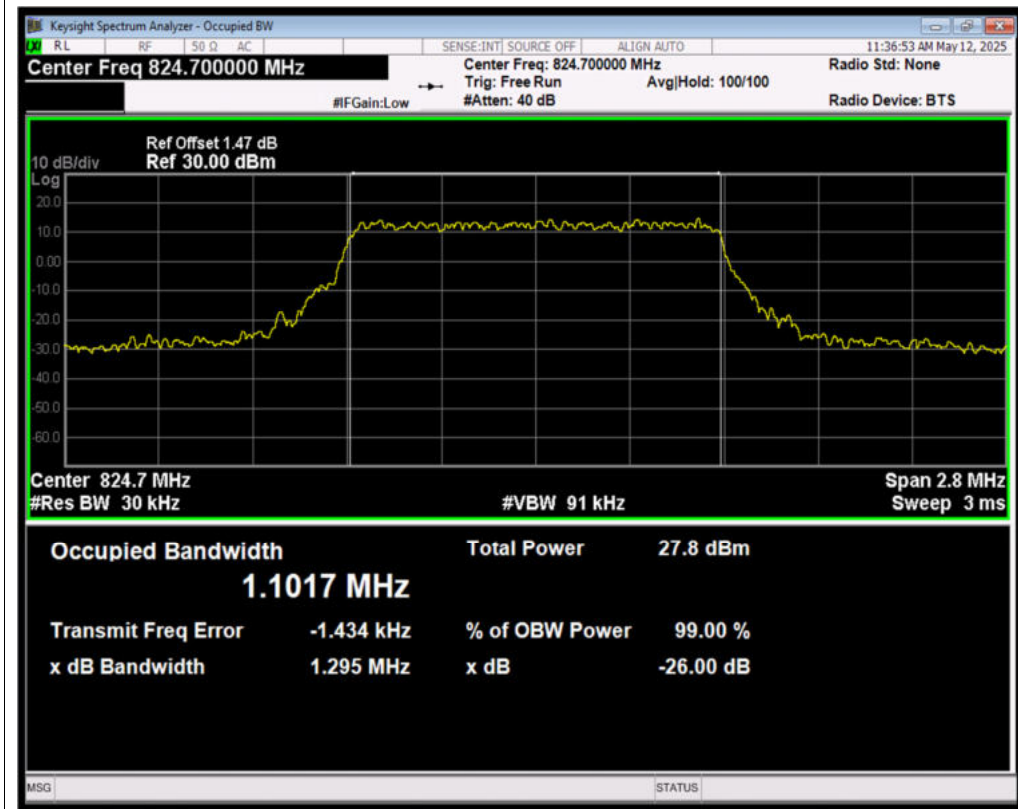
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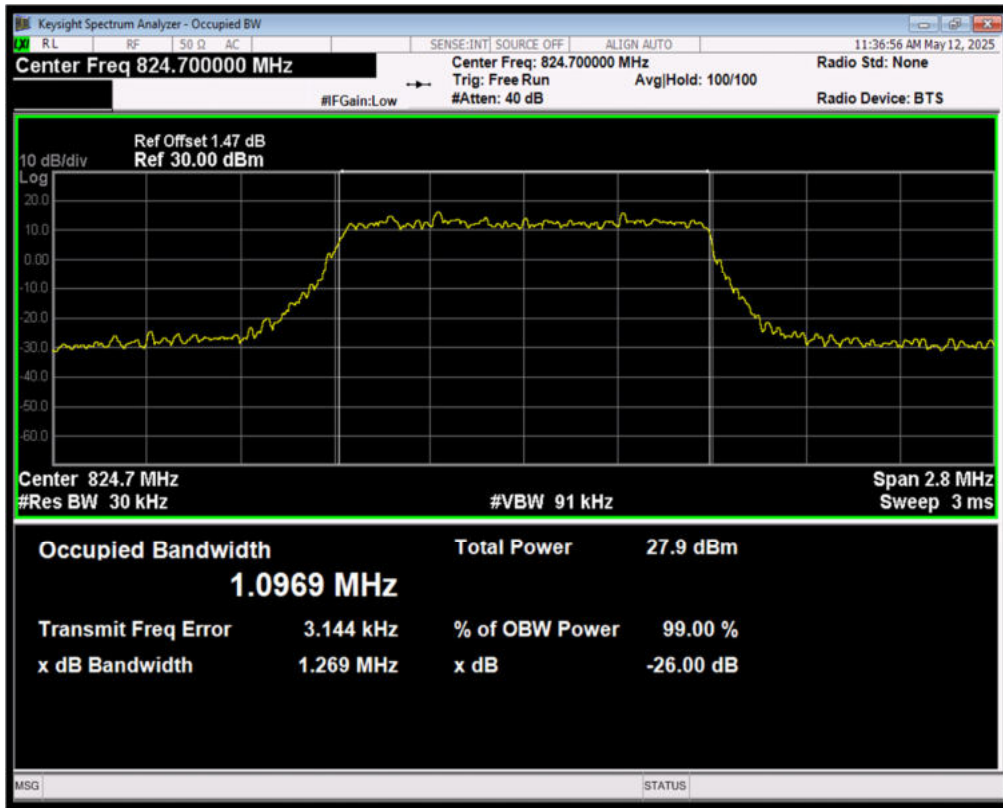
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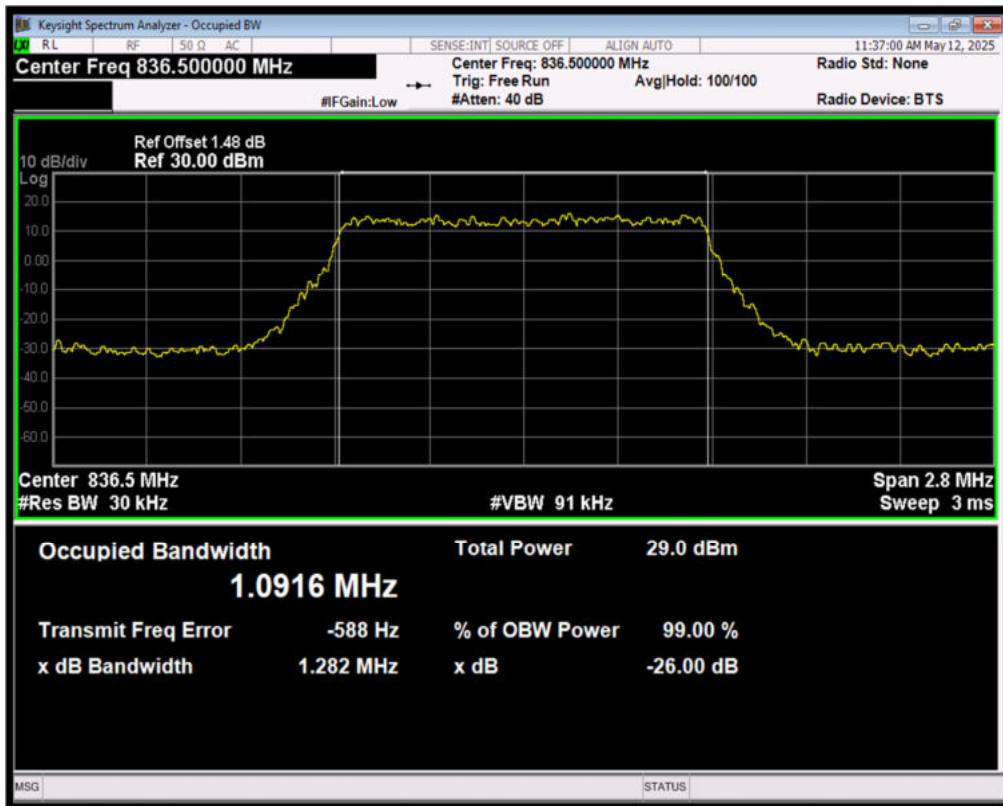
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



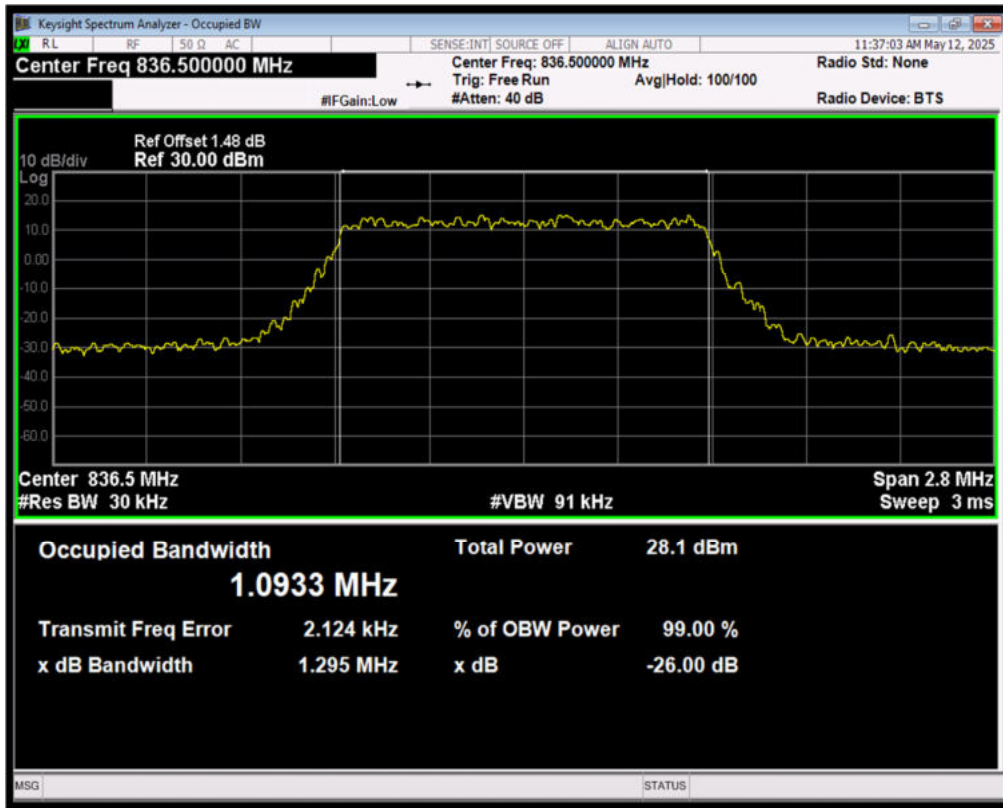
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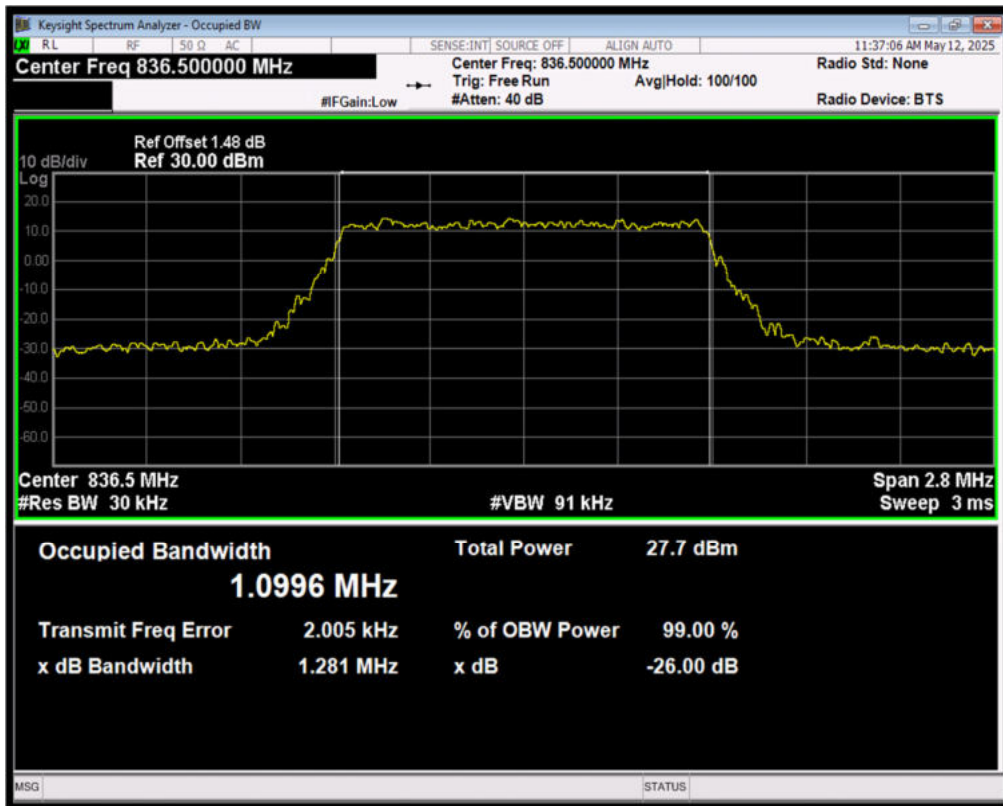
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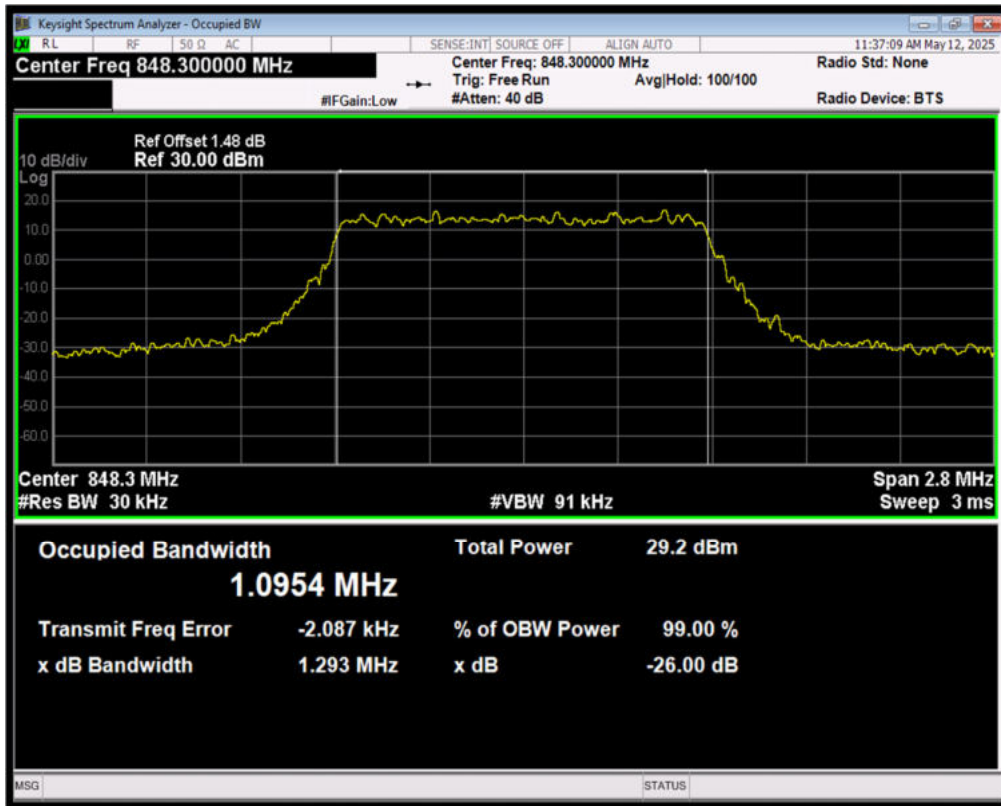
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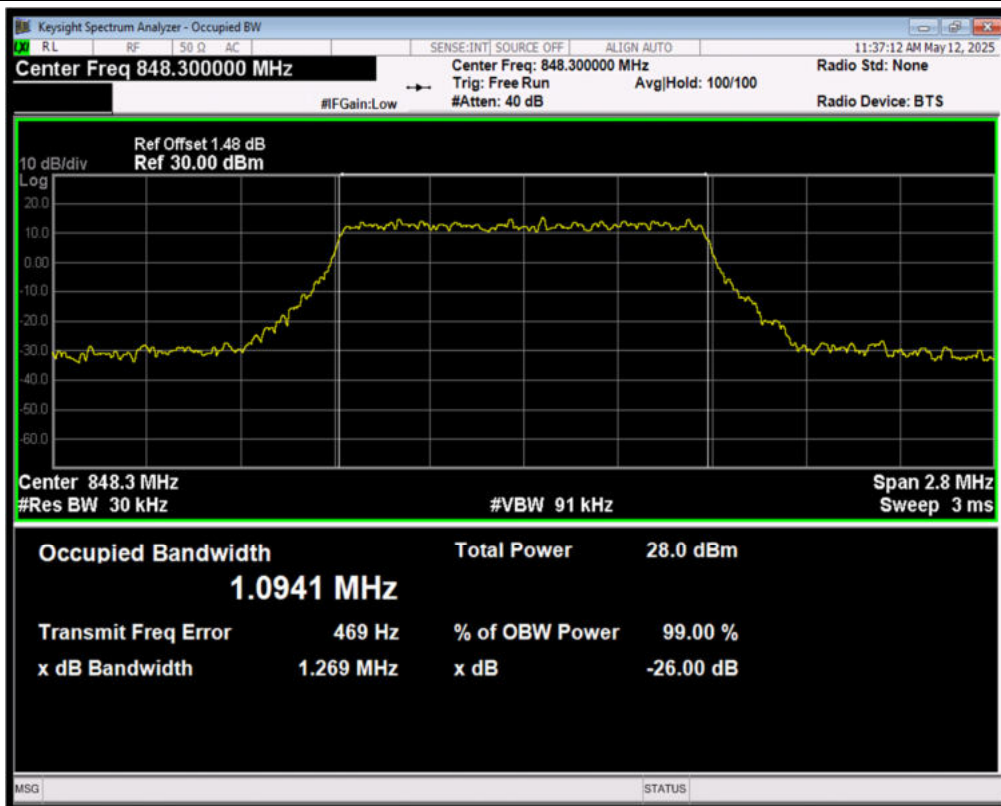
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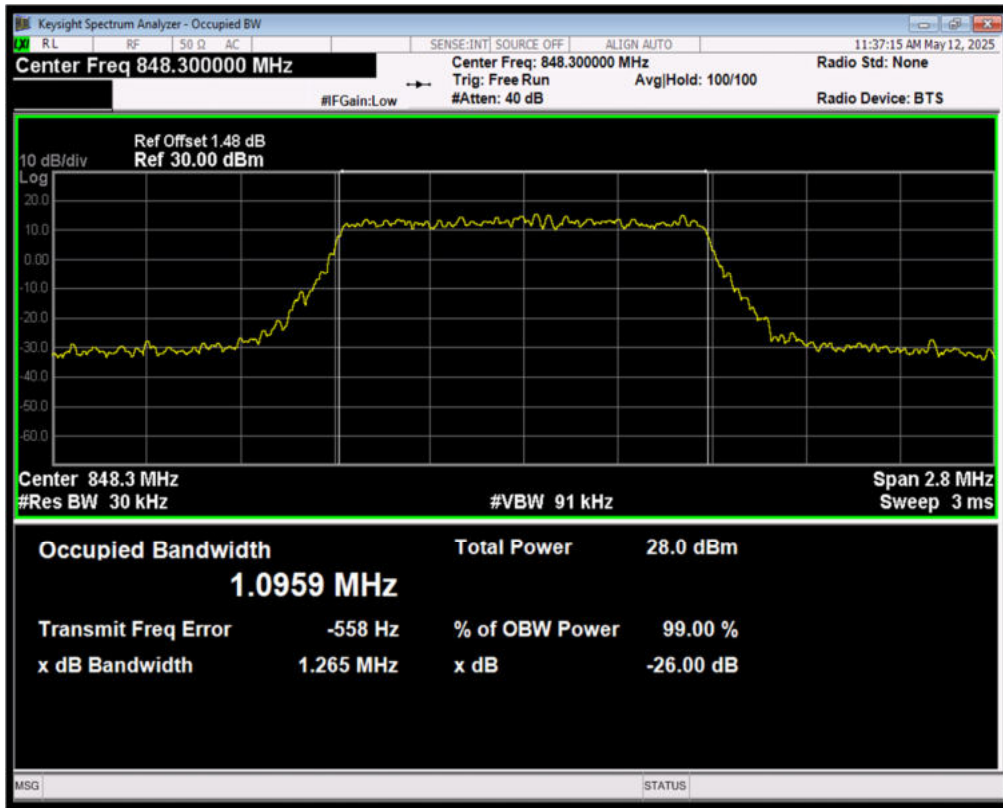
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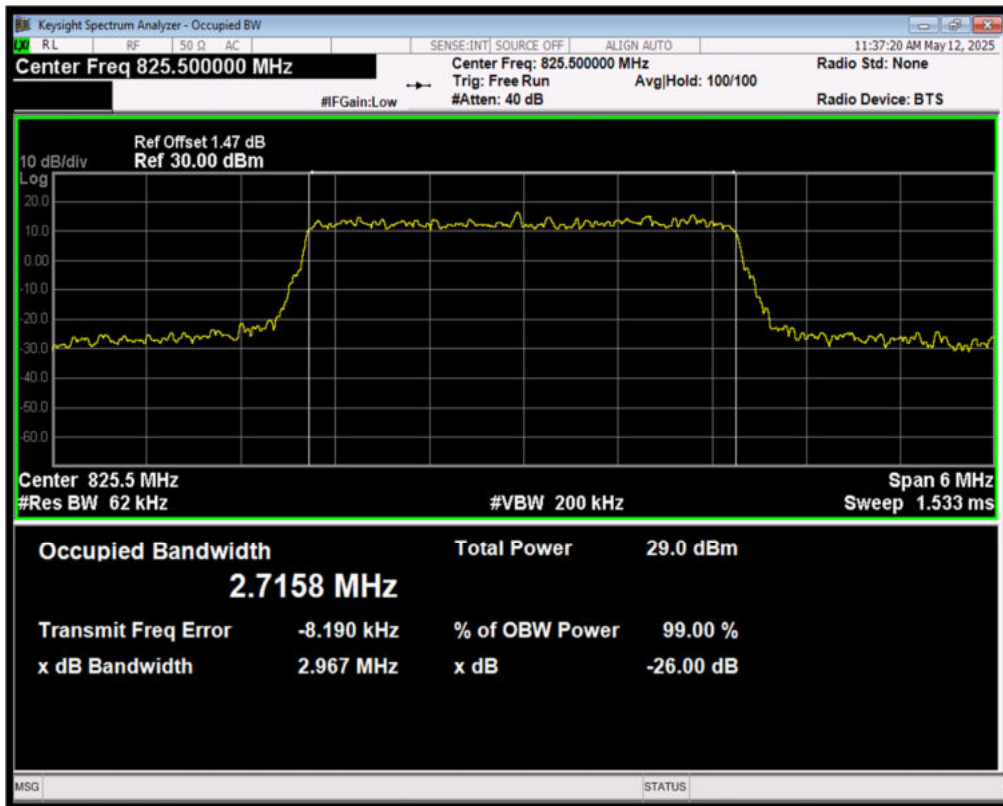
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



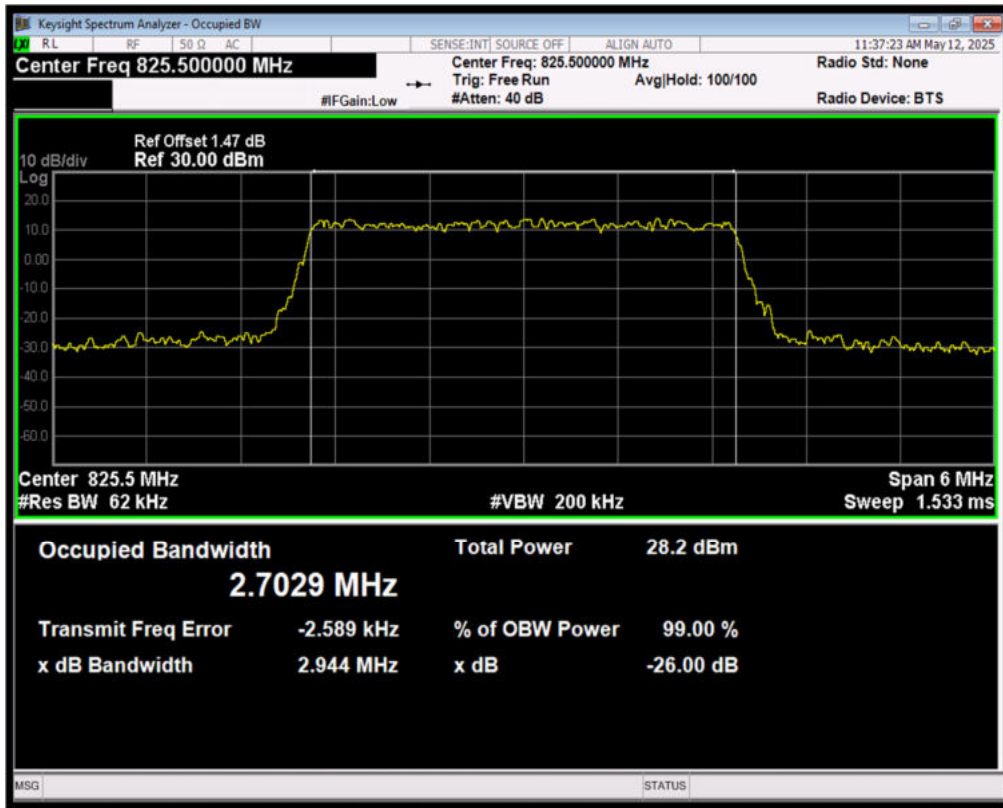
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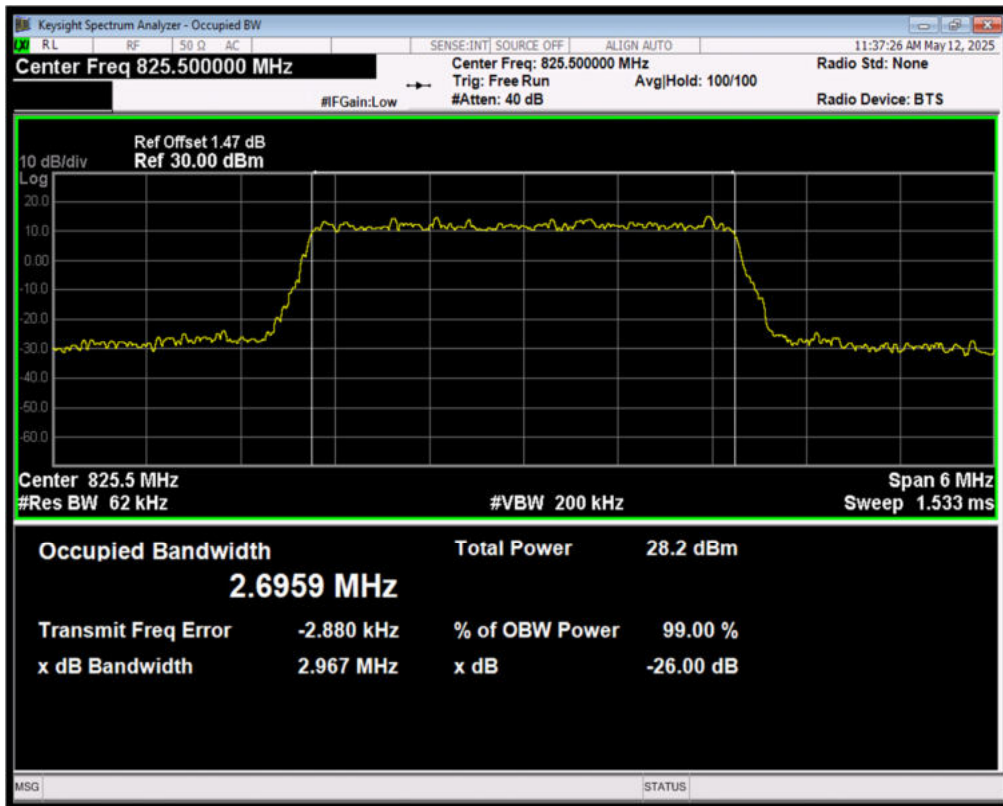
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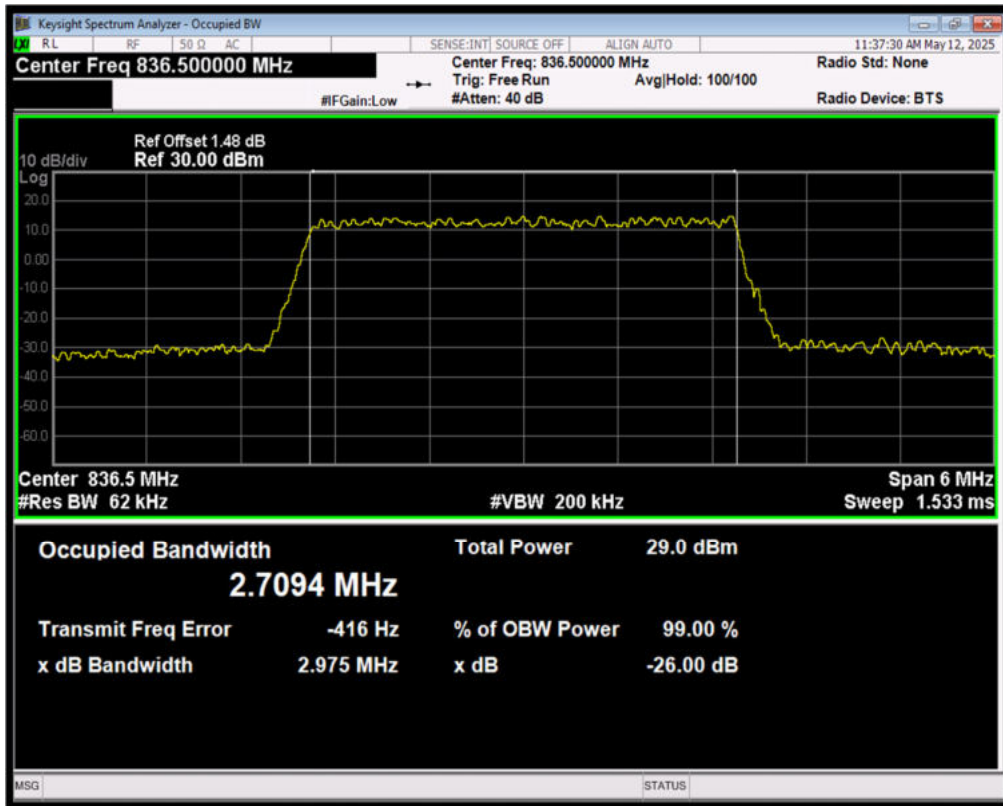
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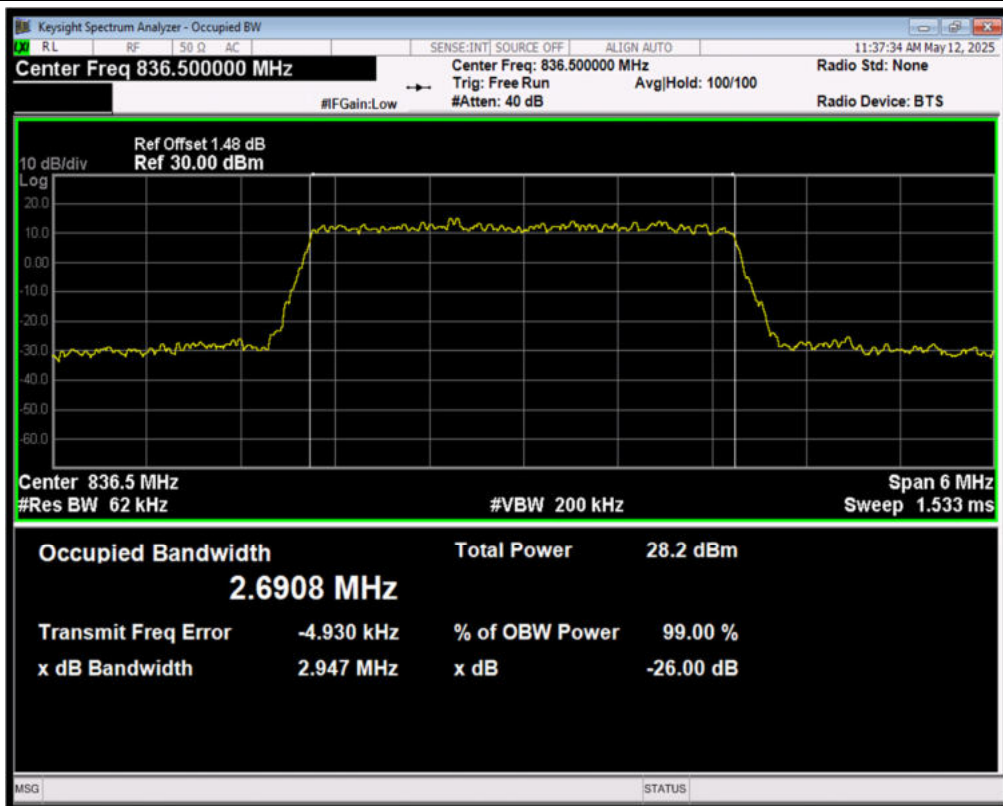
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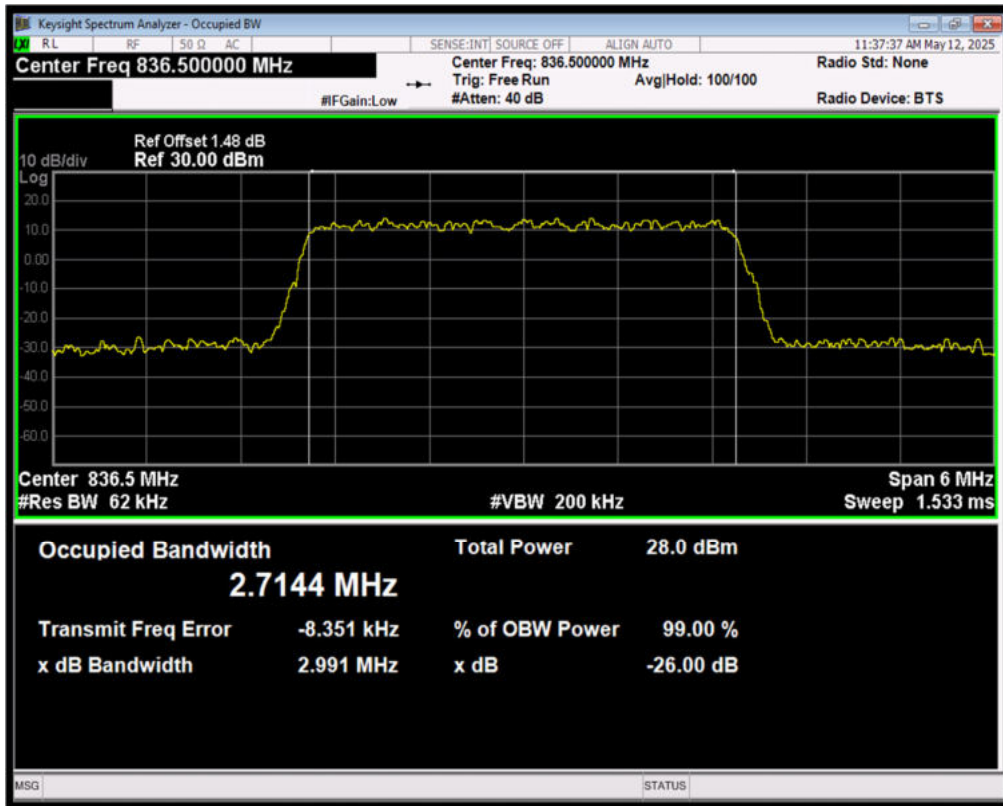
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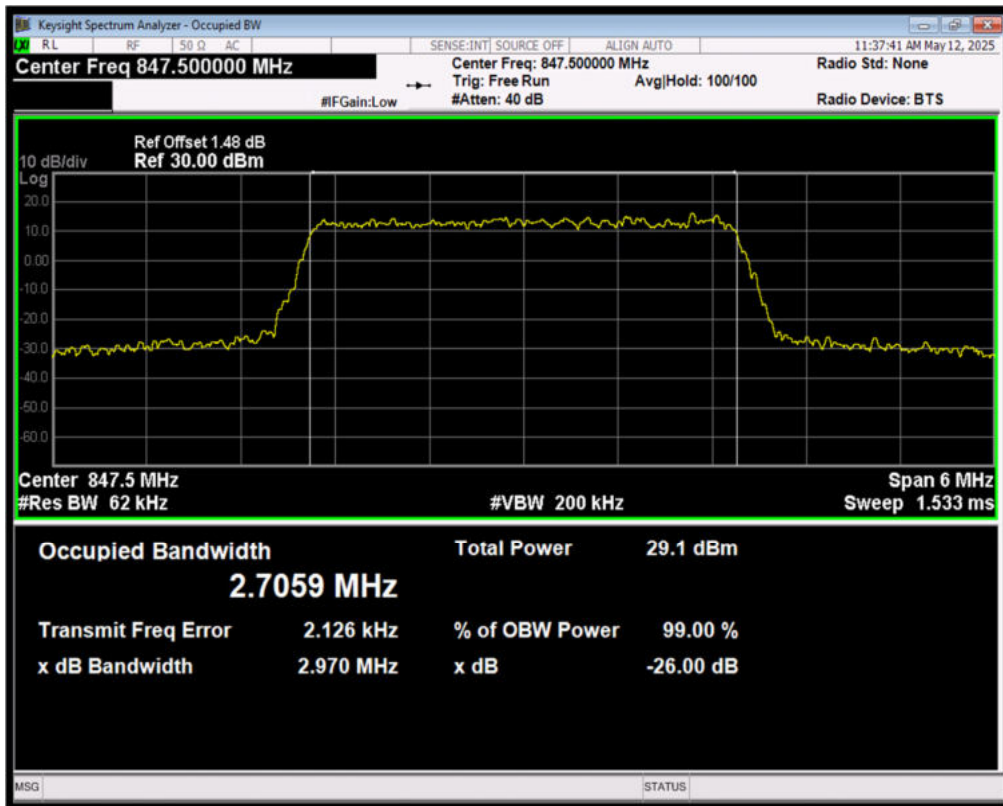
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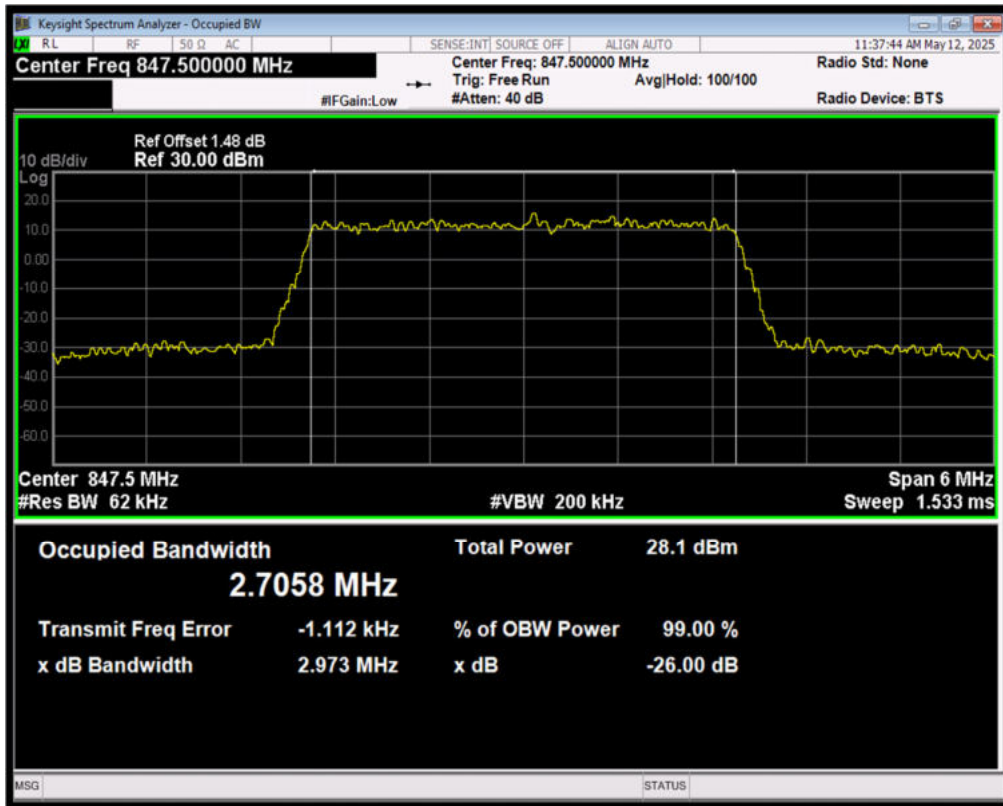
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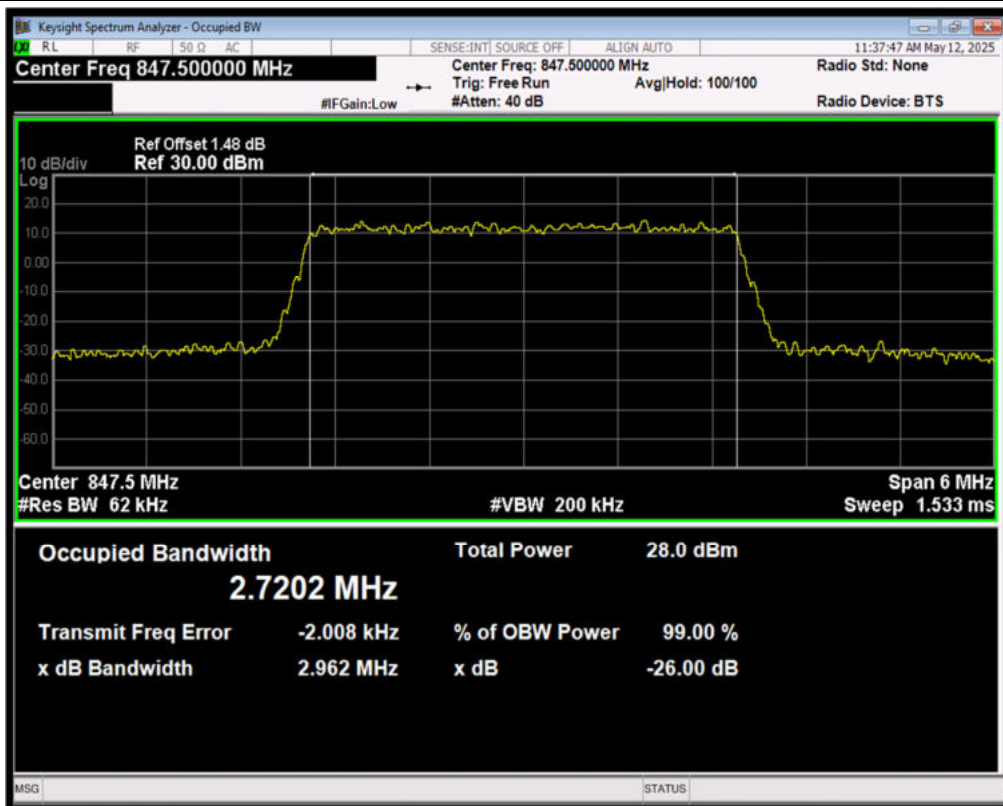
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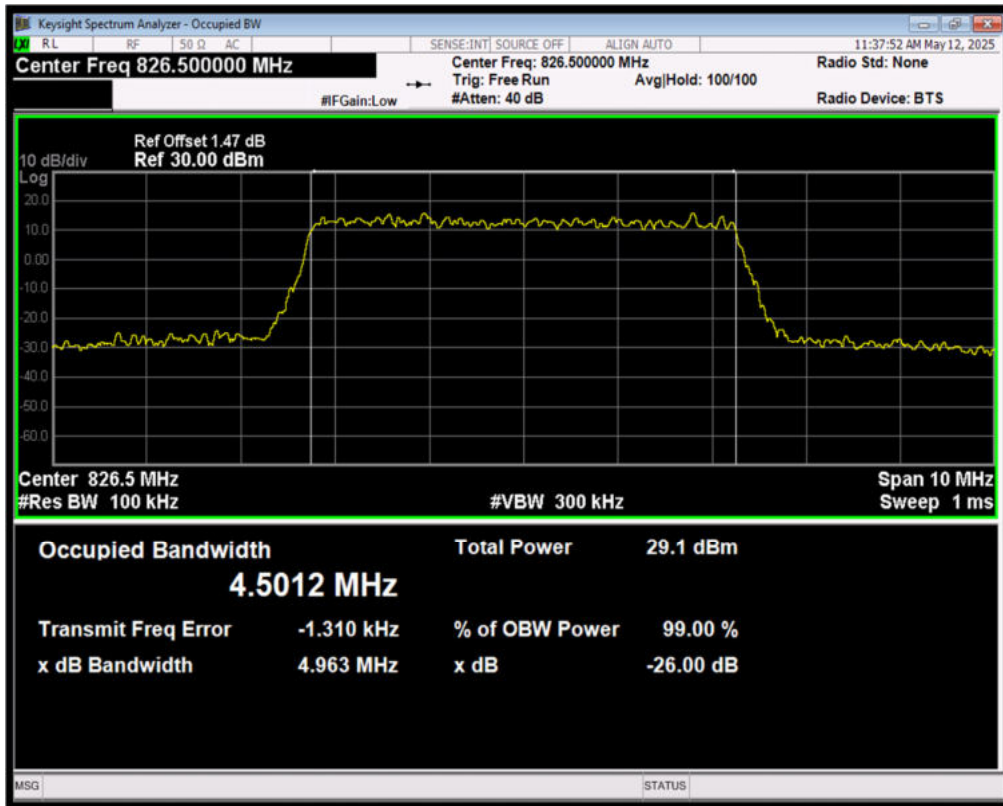
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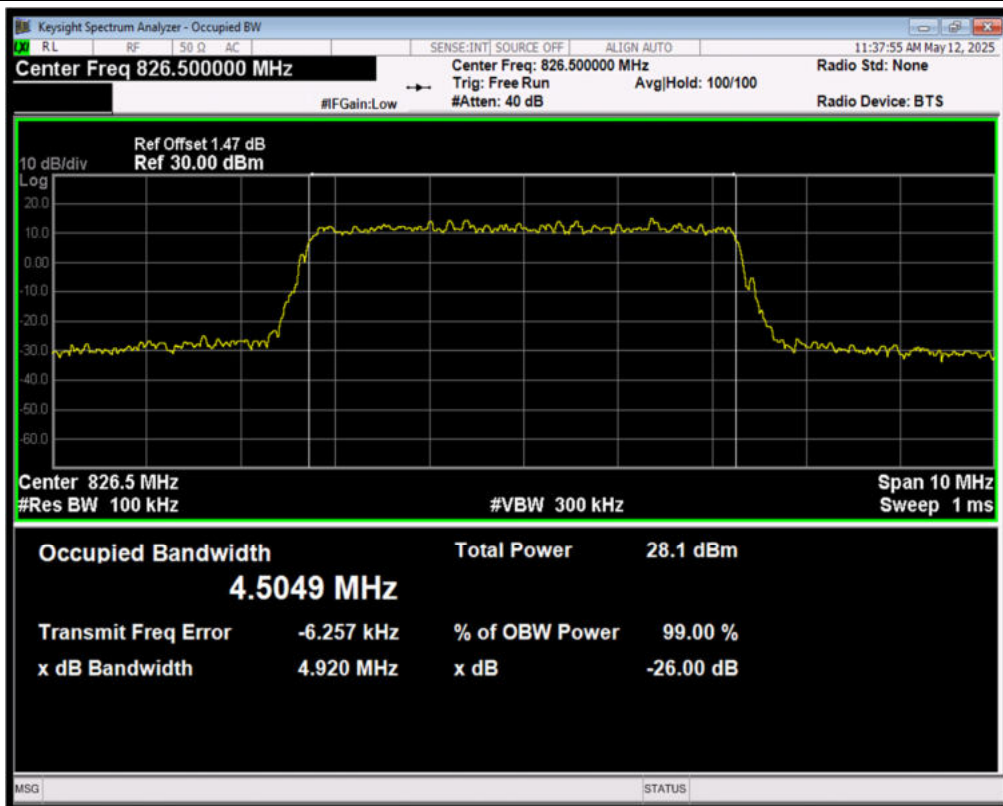
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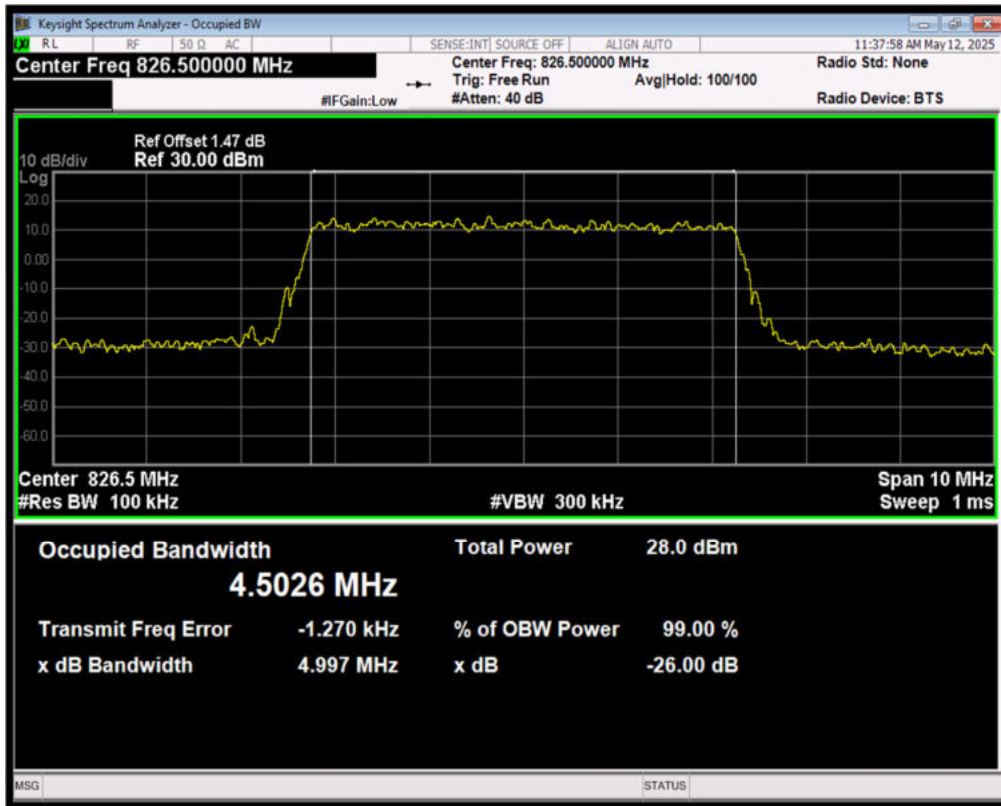
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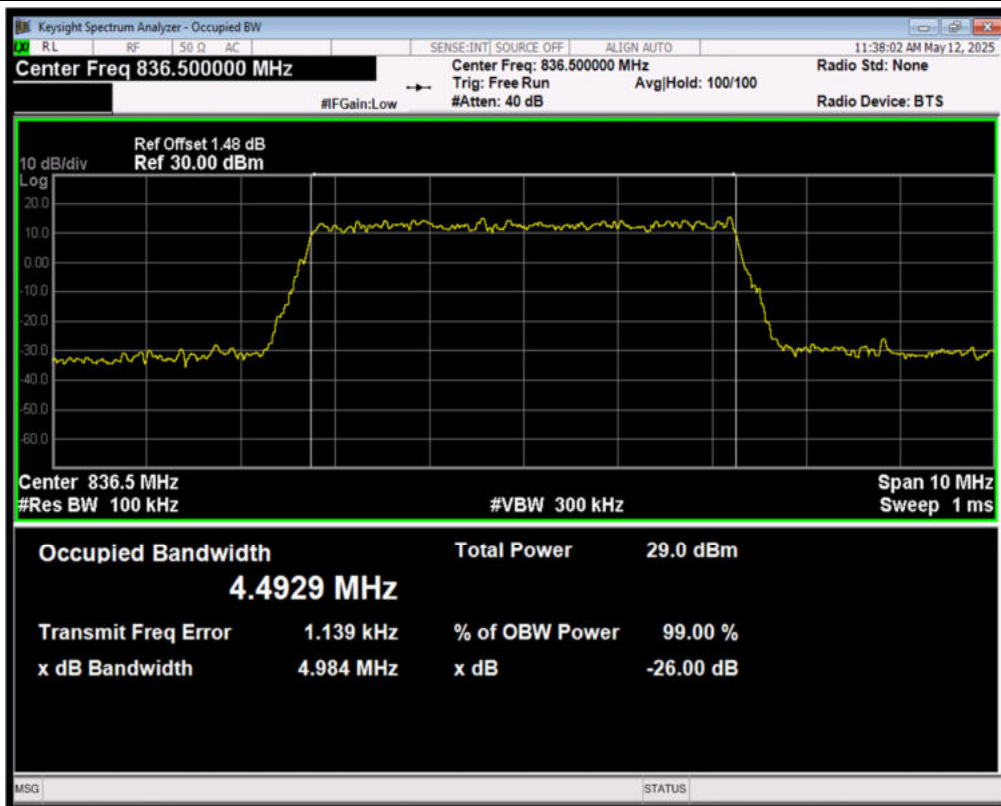
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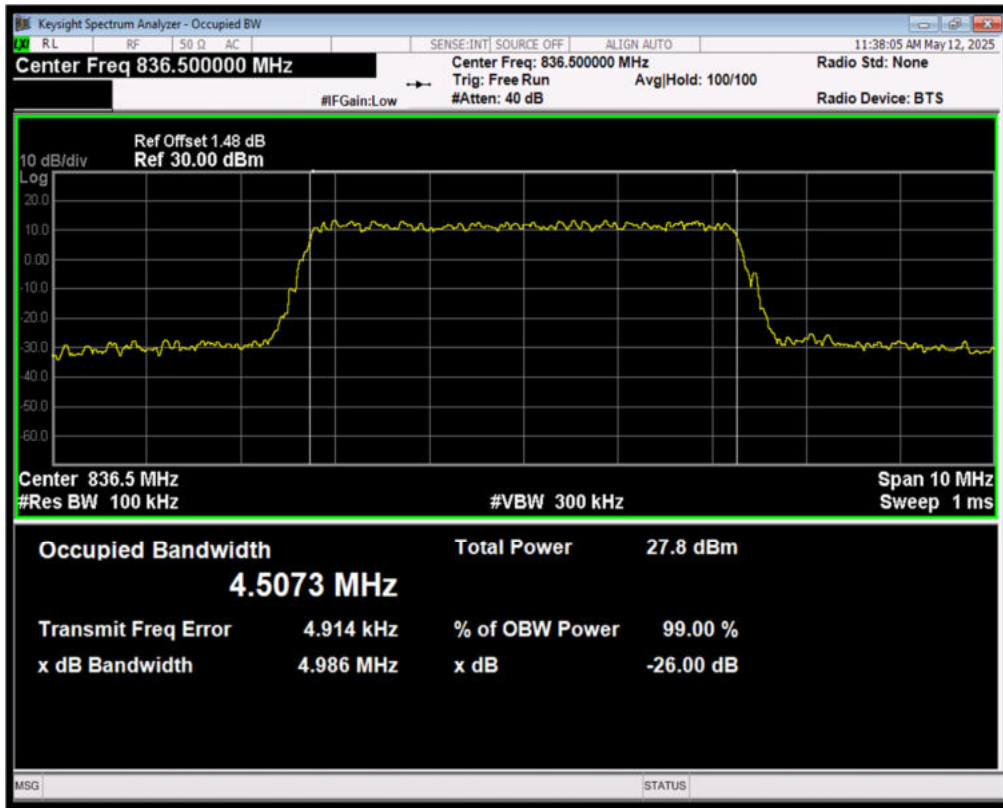
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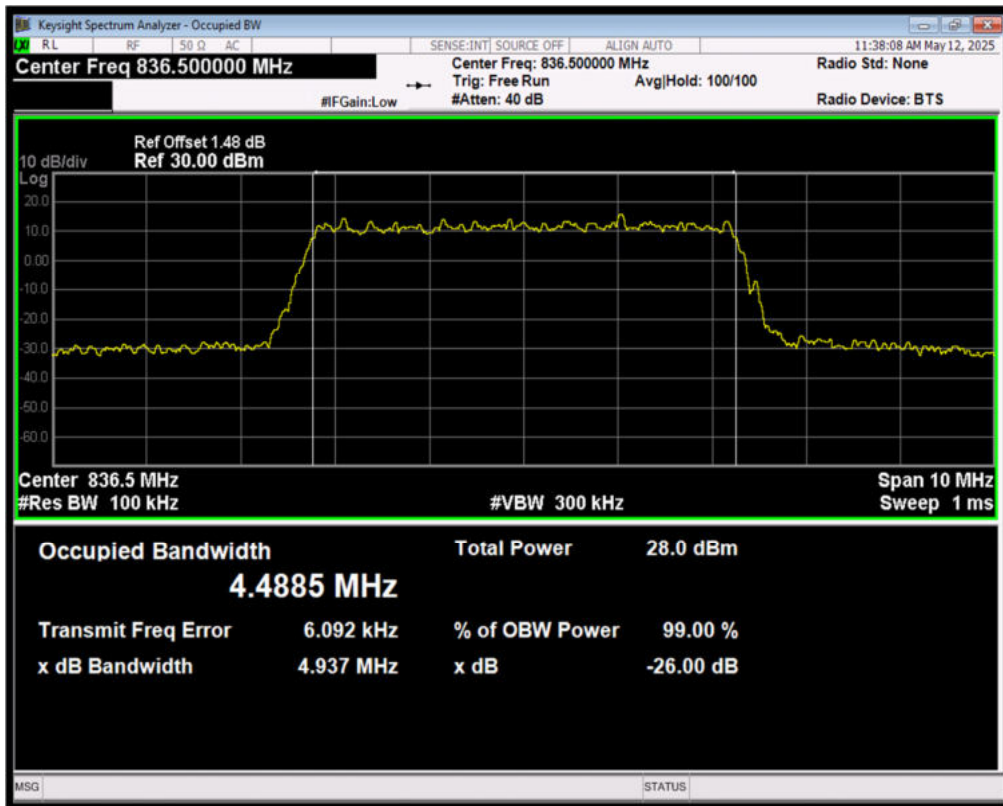
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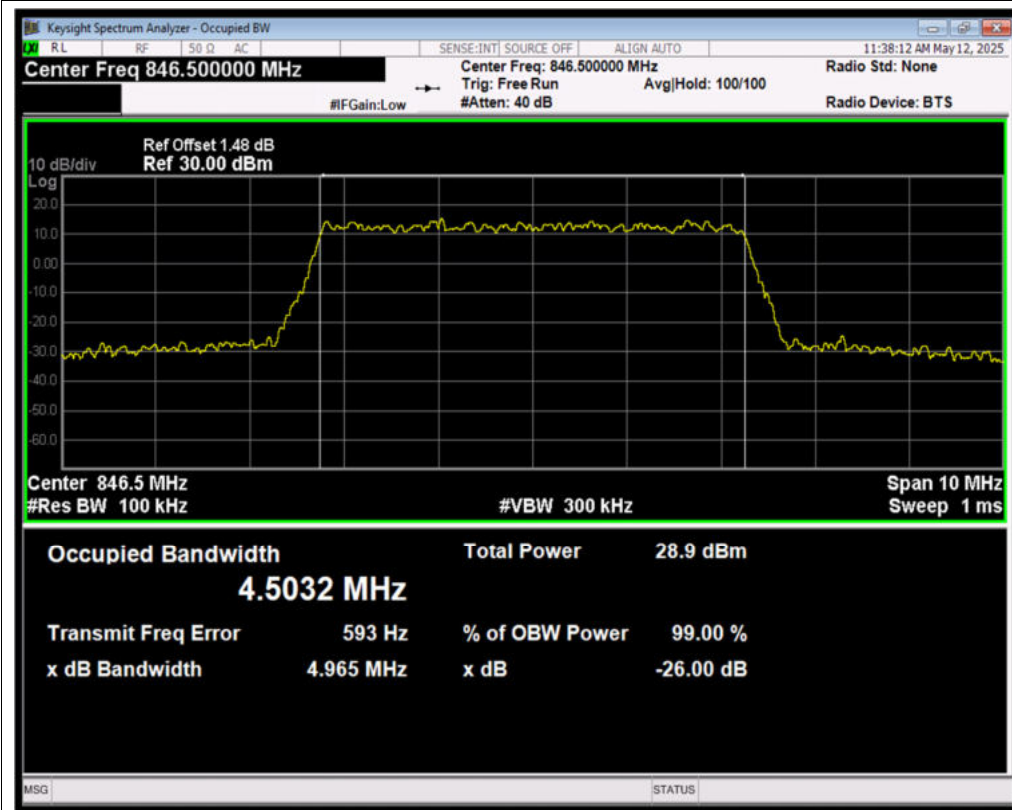
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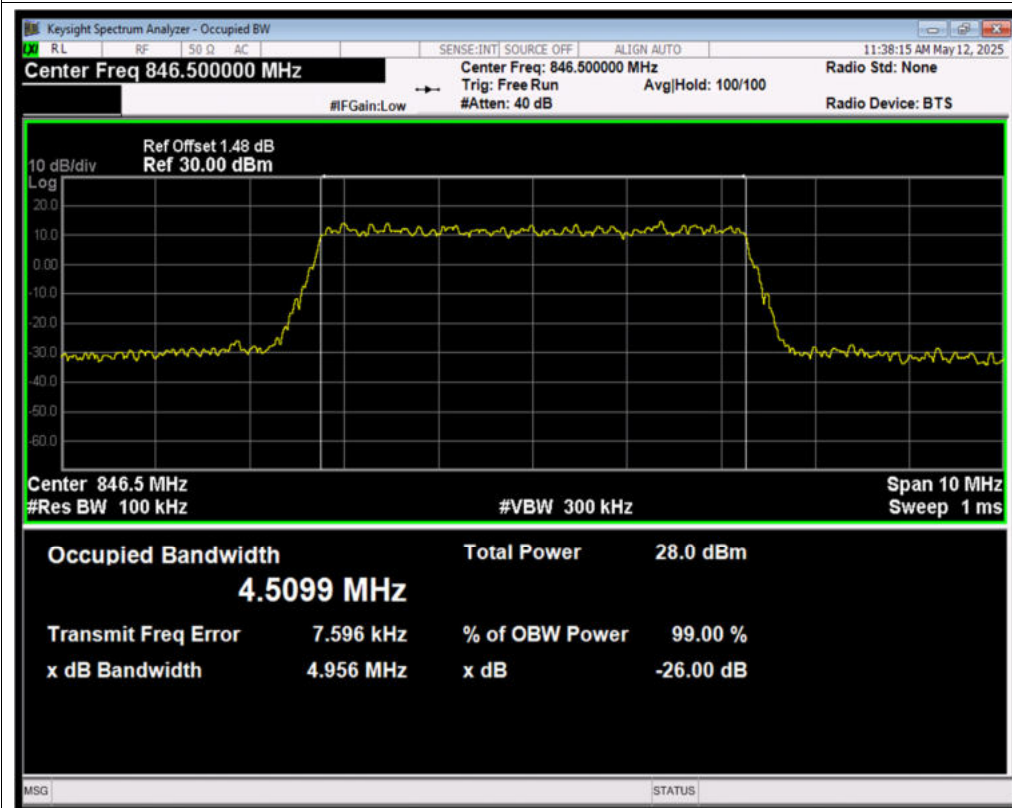
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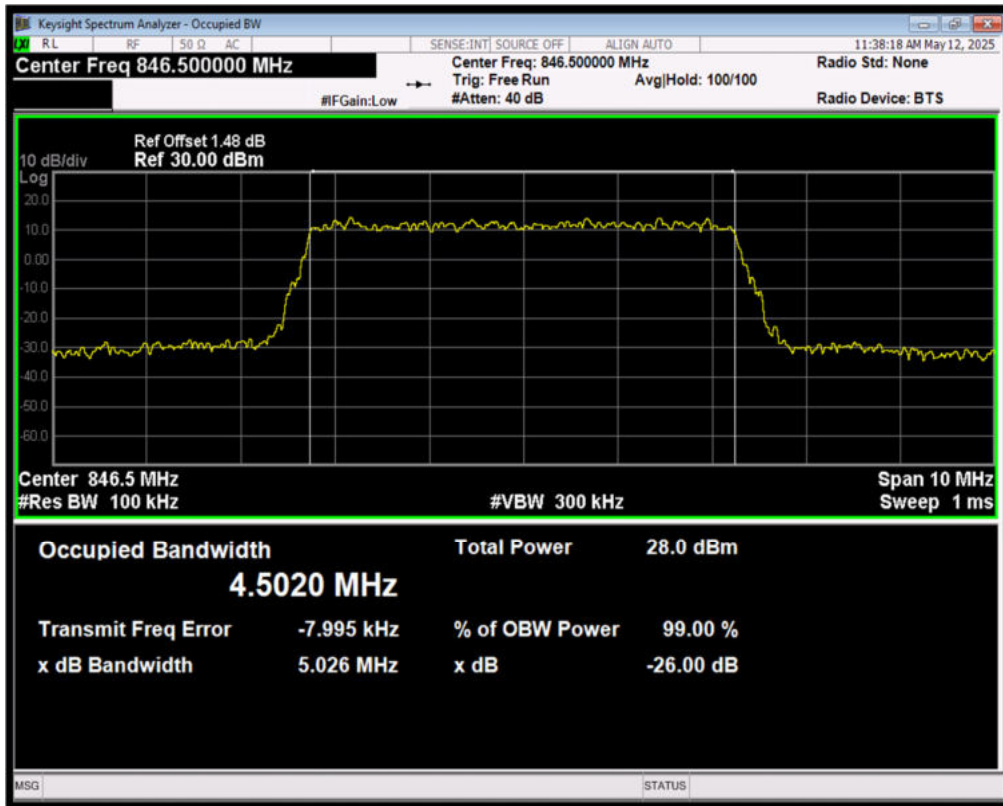
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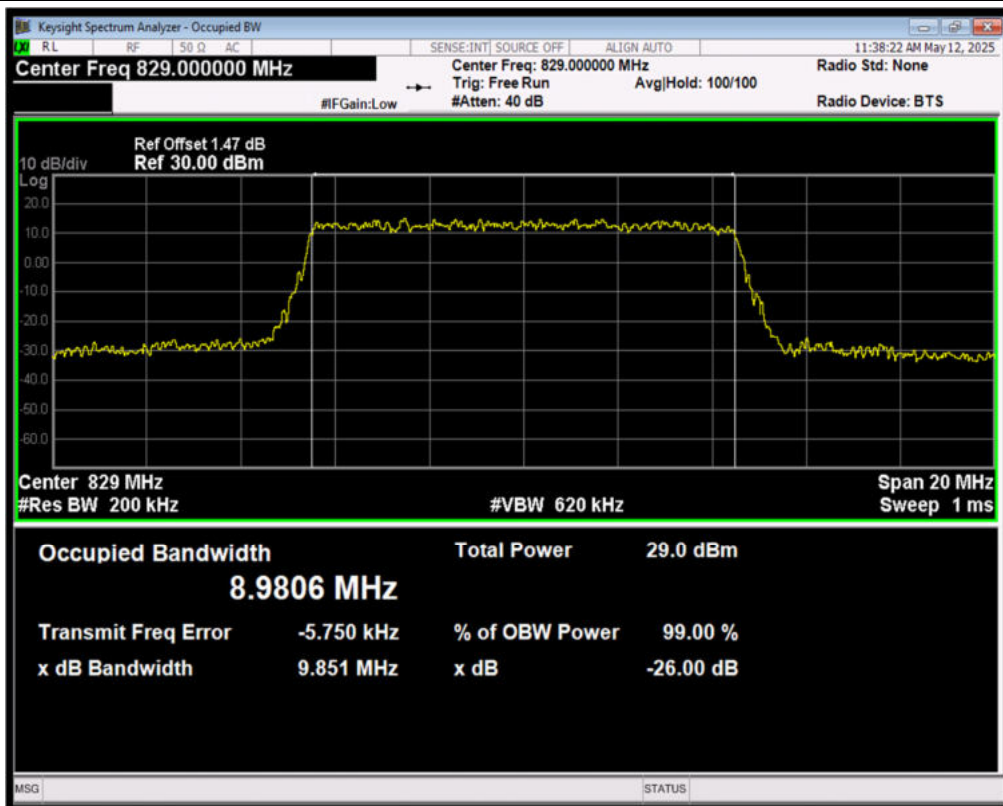
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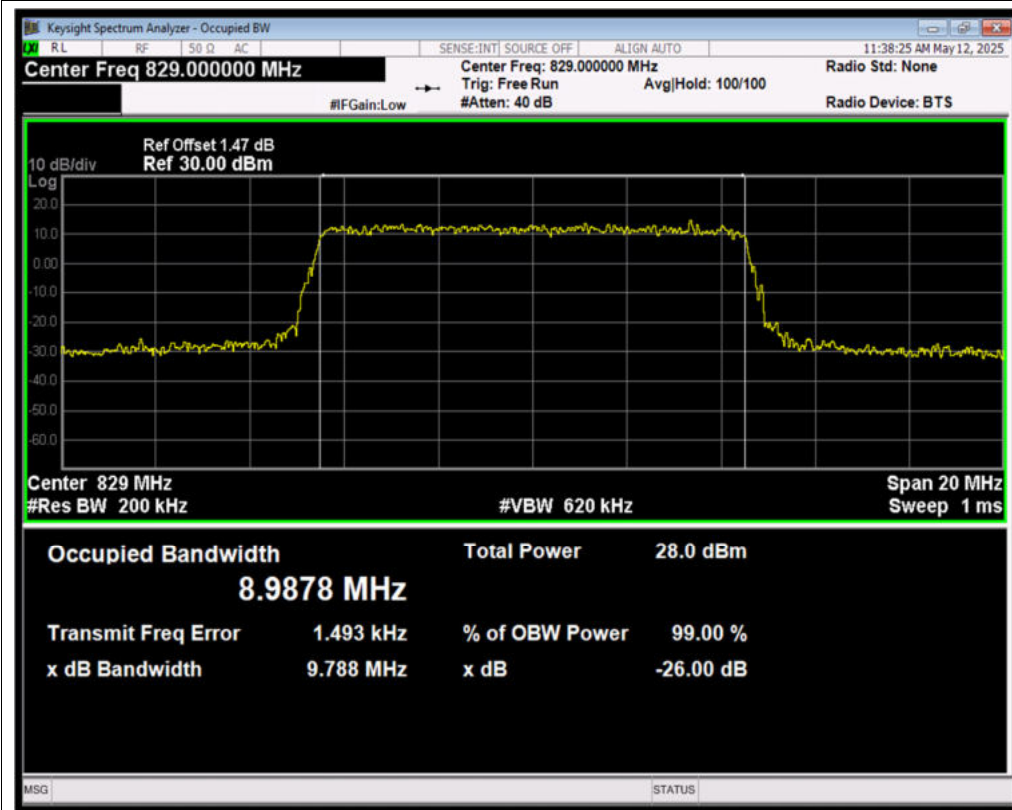
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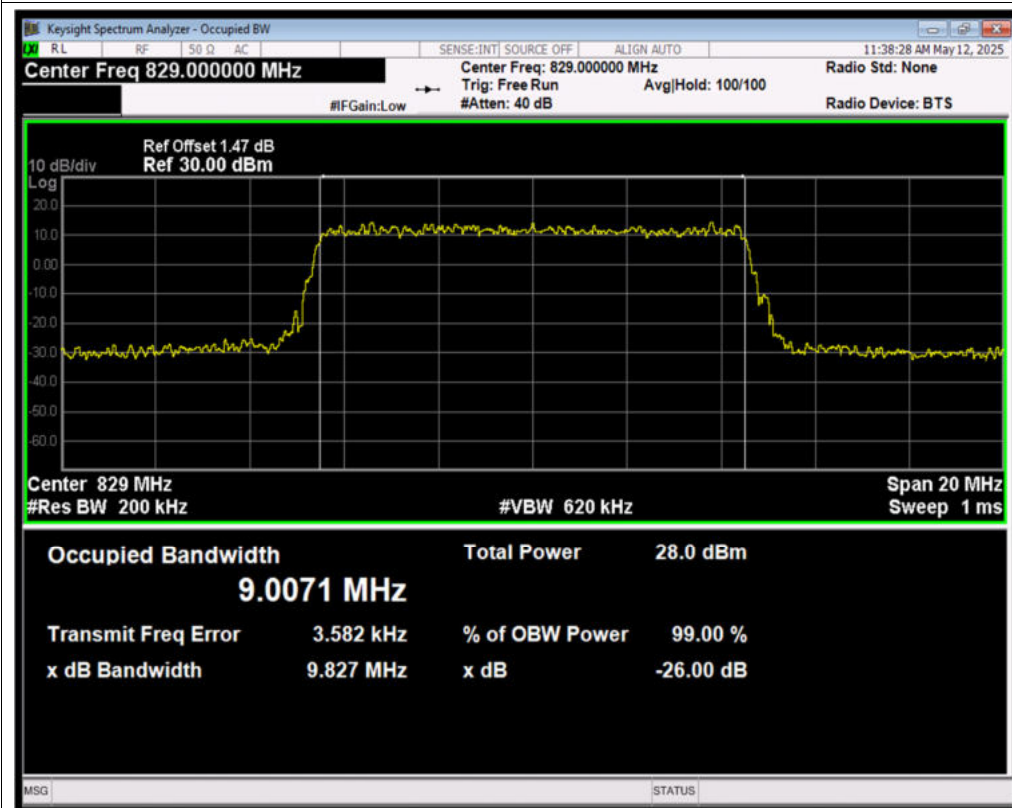
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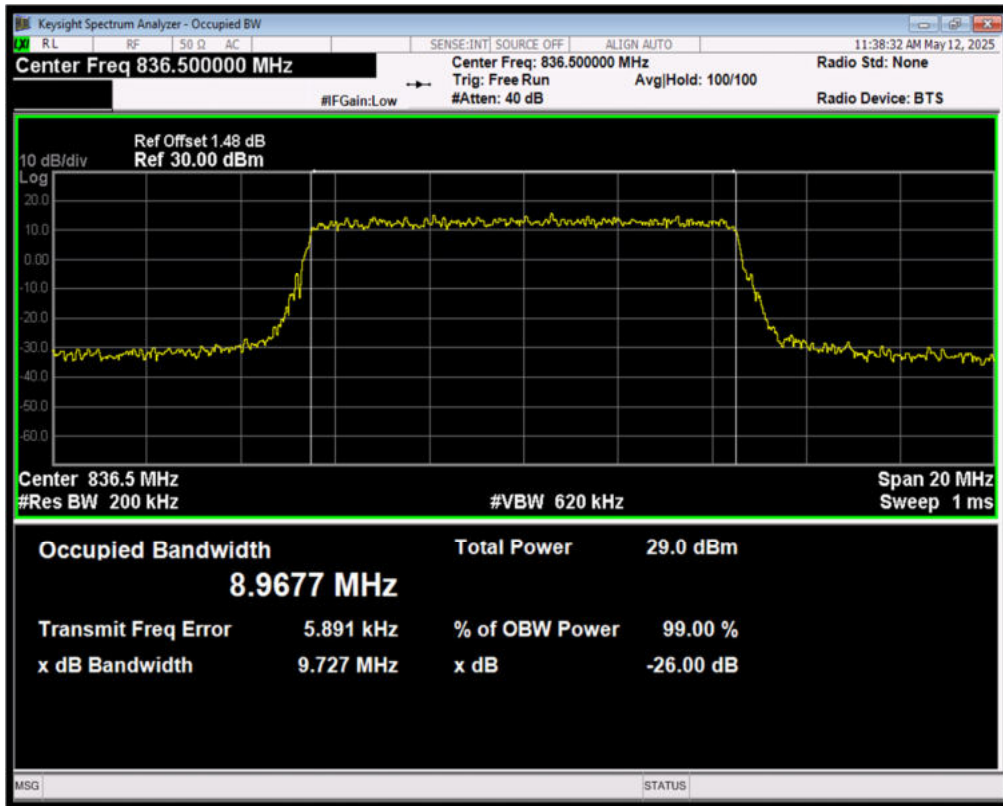
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



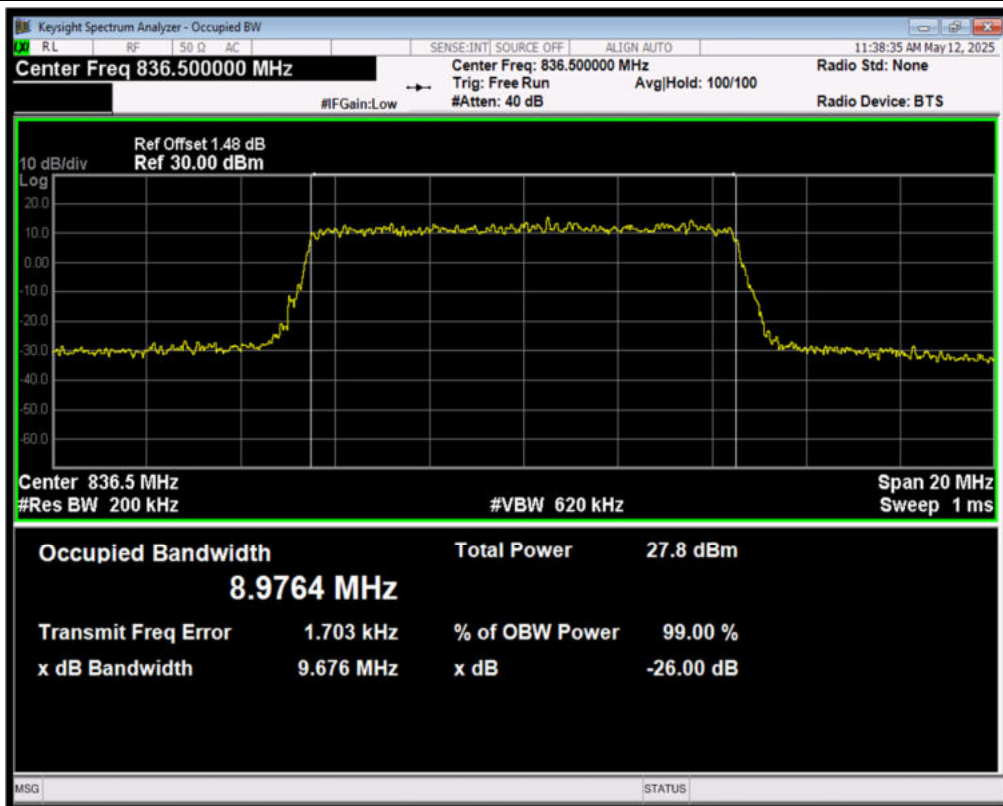
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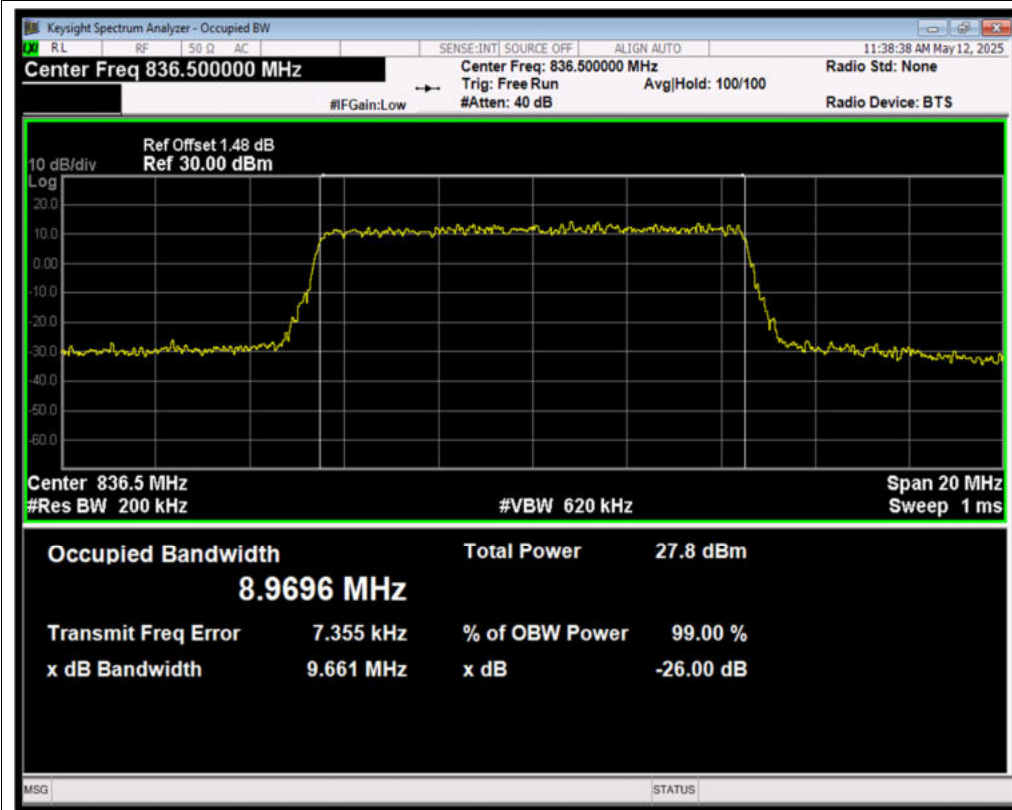
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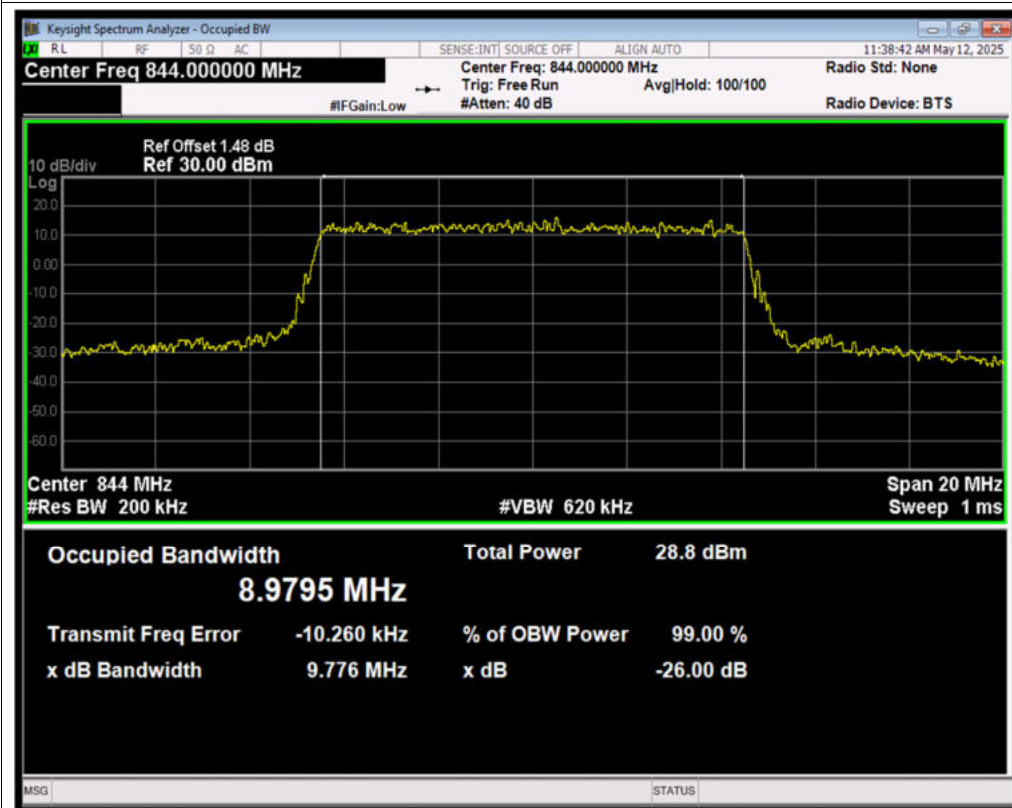
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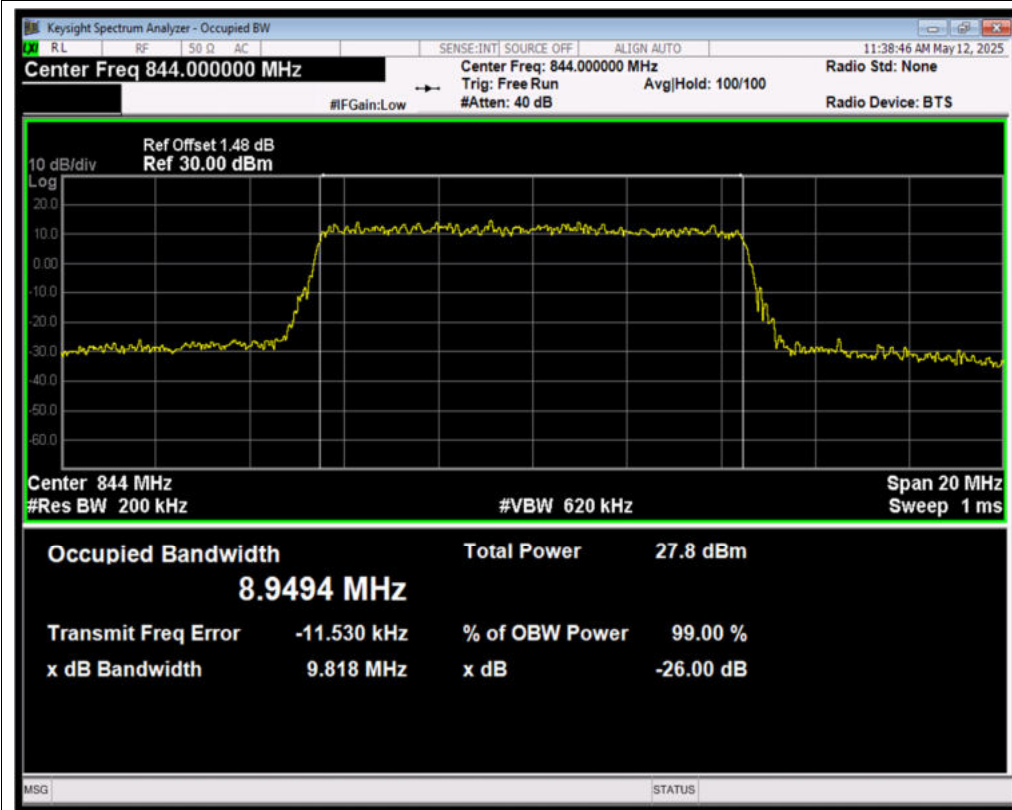
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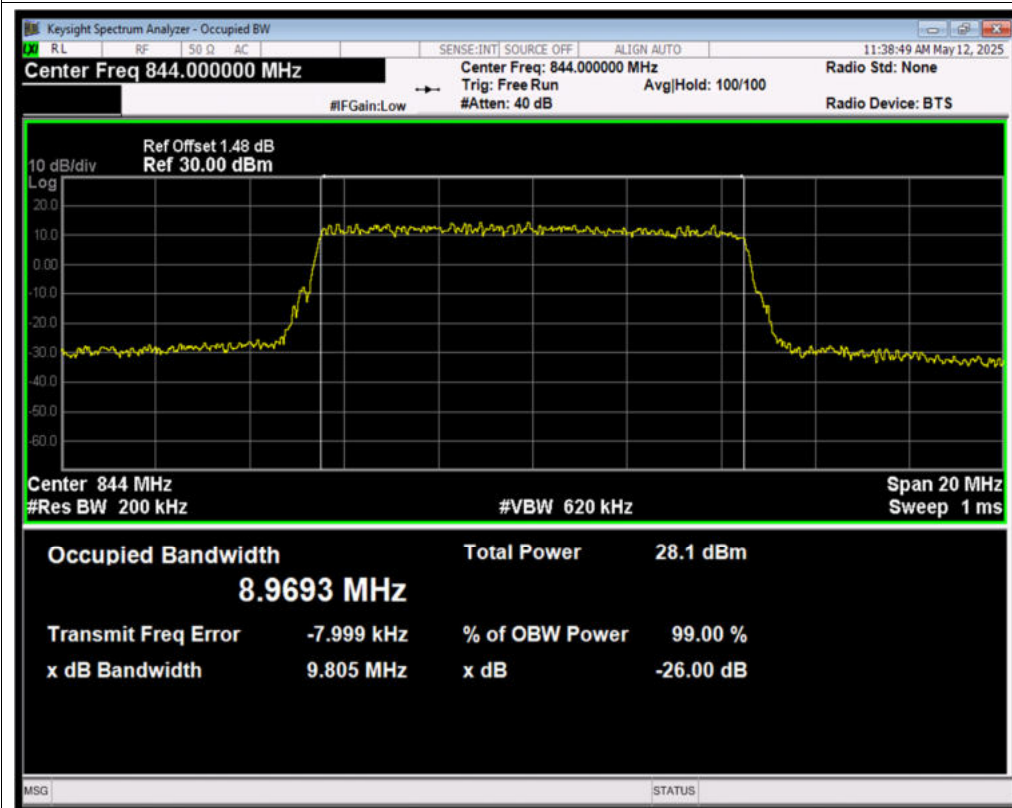
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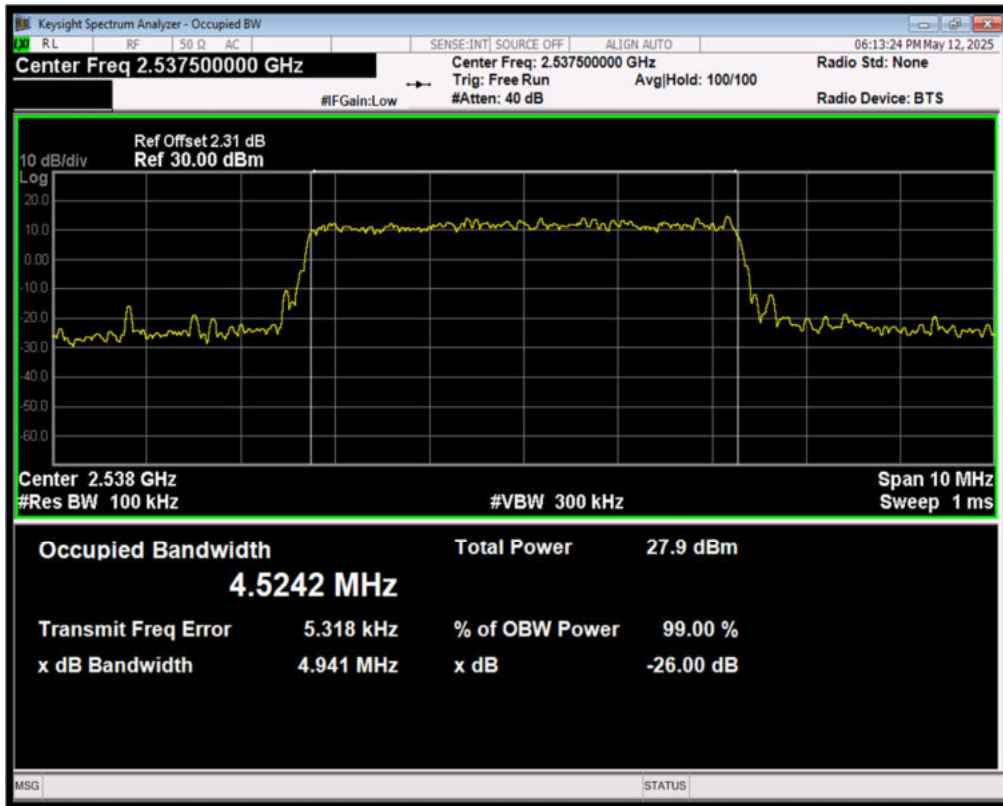
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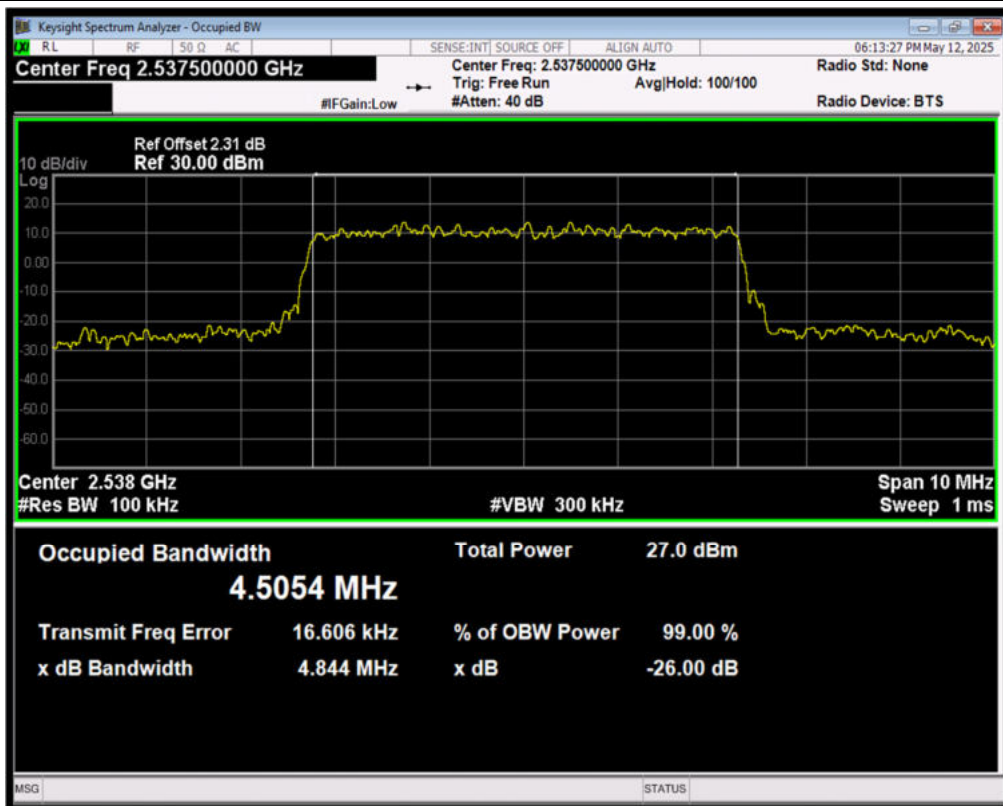
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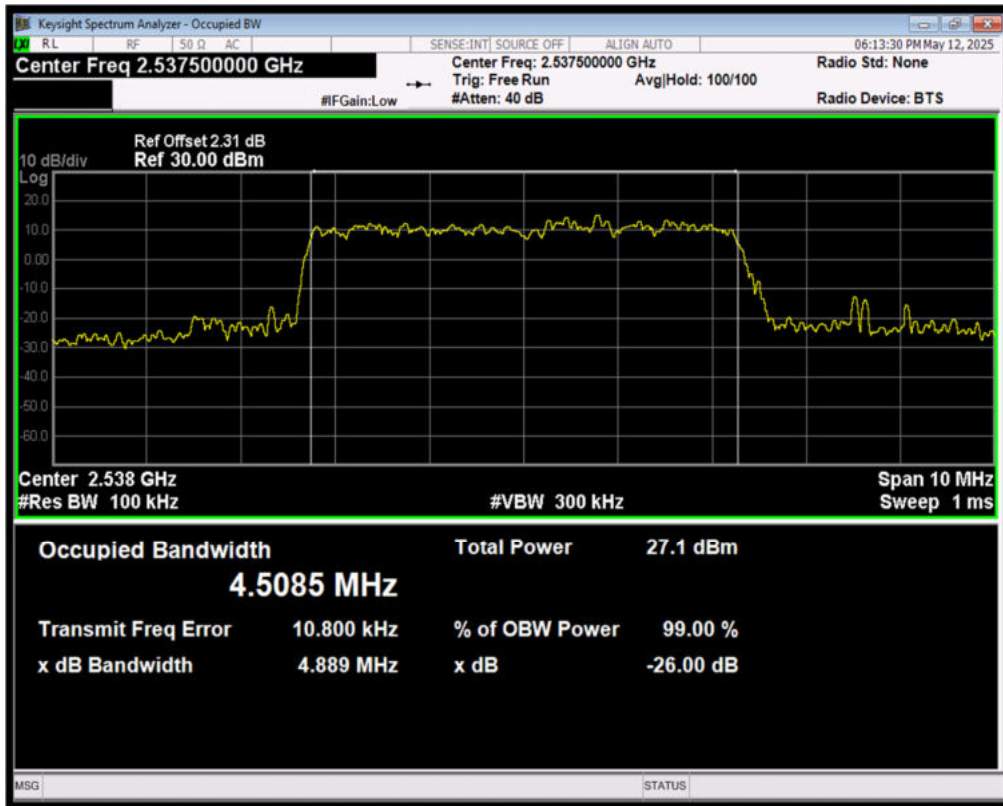
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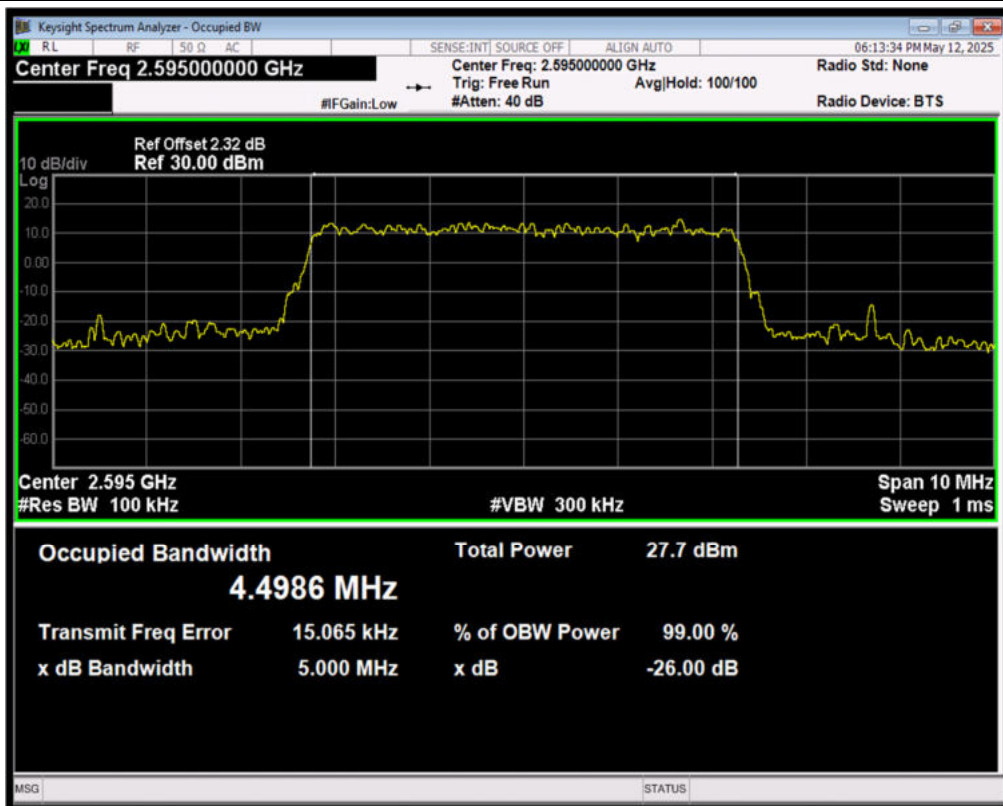
Band41(2535-2655) QPSK BW=5MHz Channel=40065 RB Size=25 Position=#0



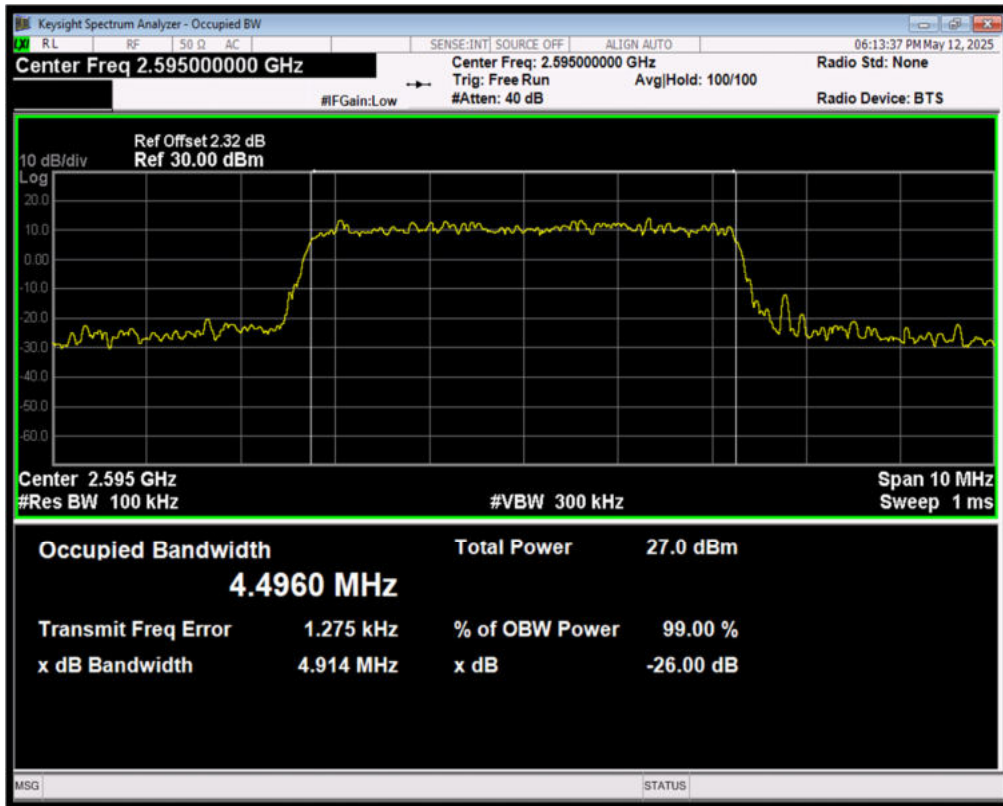
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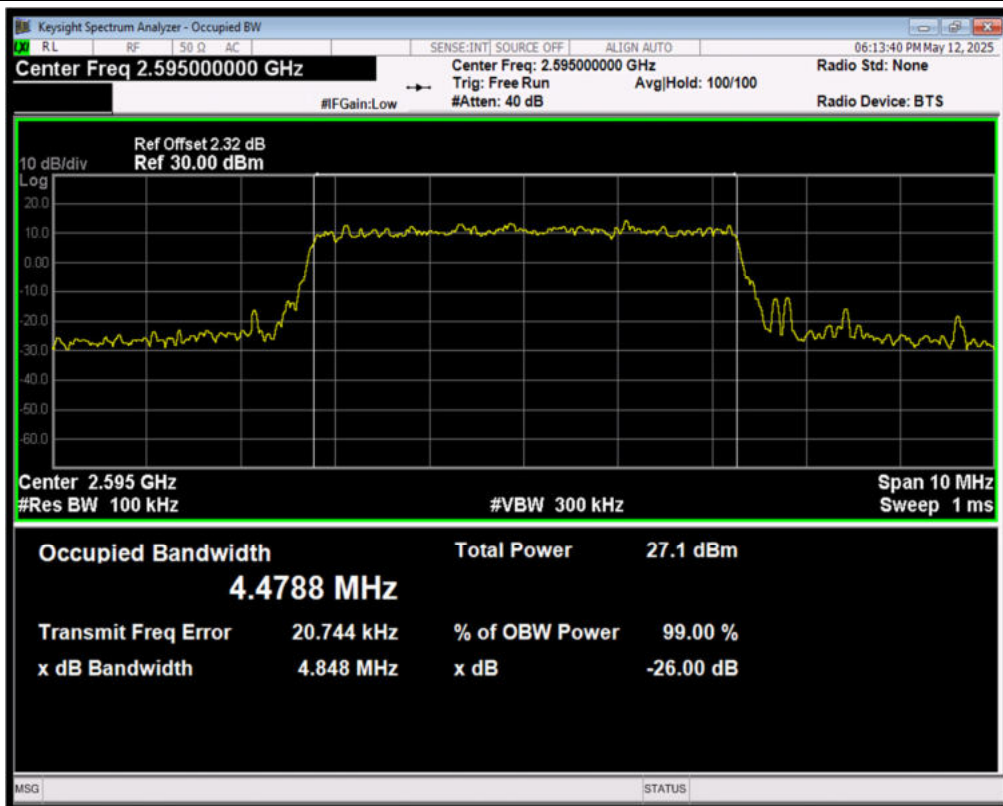
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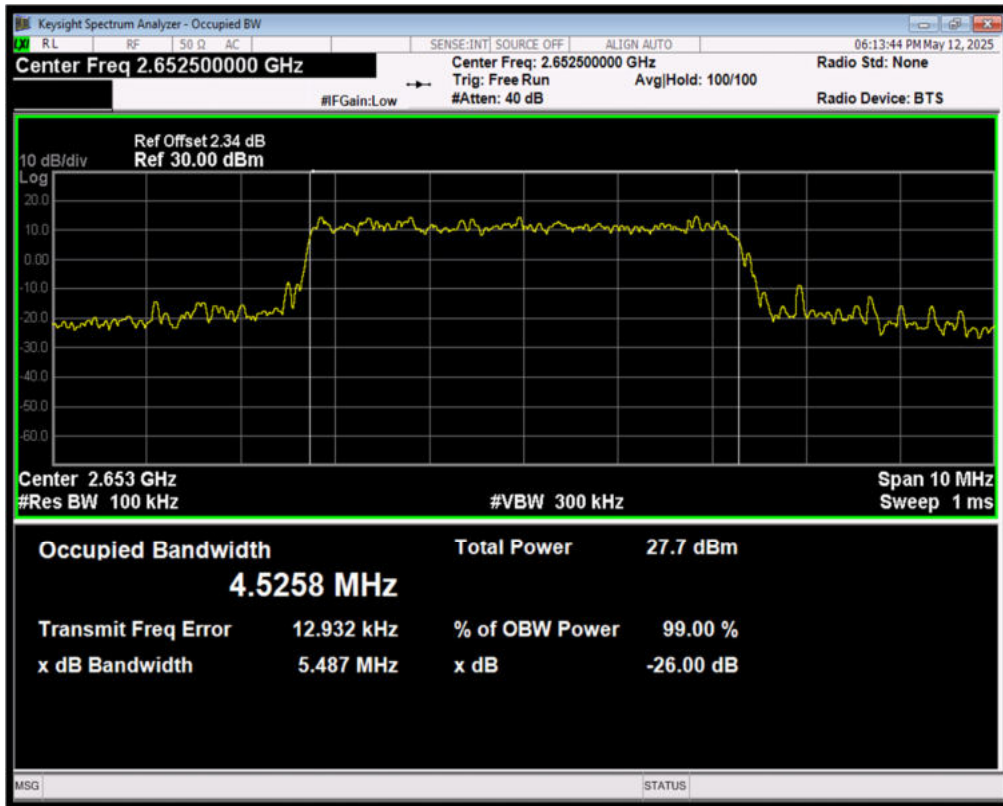
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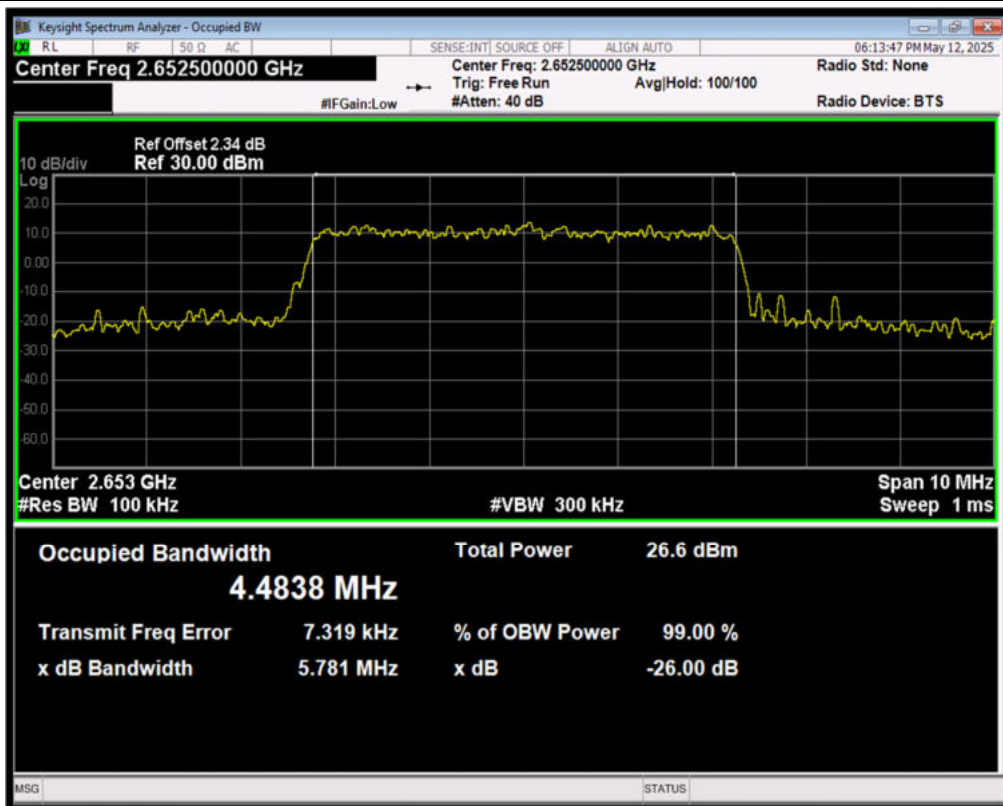
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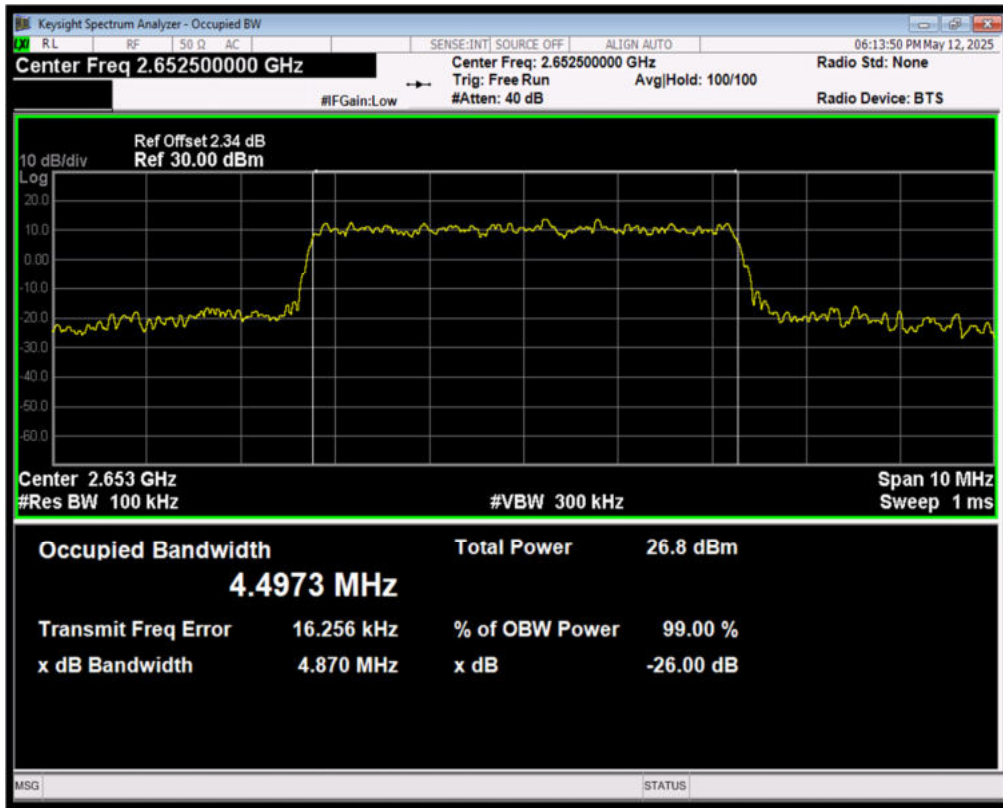
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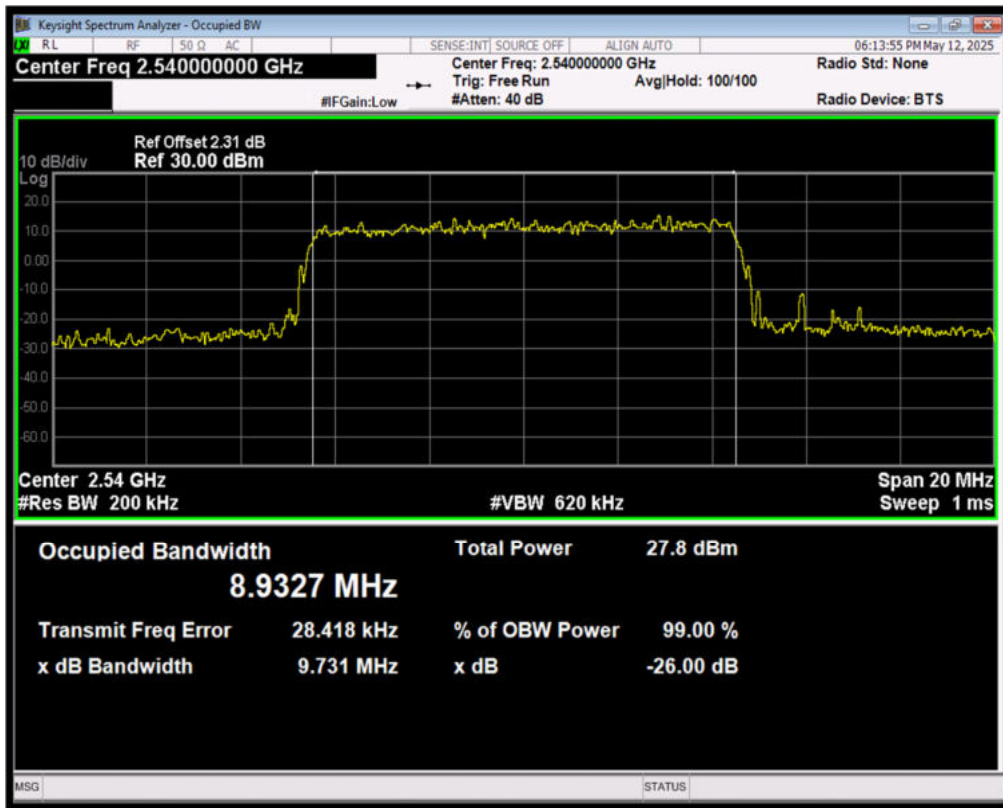
Band41(2535-2655) QPSK BW=5MHz Channel=41215 RB Size=25 Position=#0



Band41(2535-2655) 16QAM BW=5MHz Channel=41215 RB Size=25 Position=#0



Band41(2535-2655) 64QAM BW=5MHz Channel=41215 RB Size=25 Position=#0



Band41(2535-2655) QPSK BW=10MHz Channel=40090 RB Size=50 Position=#0