

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

OF

Applicant: Askey Computer Corporation
10F, No 119, JianKang Rd., Zhonghe Dist., New Taipei City, Taiwan 23585

Product Name: Cat 12 Indoor CPE

Brand Name: Verizon

Model No.: ASK-RTL108

Model Difference: N/A

Report Number: E2/2019/B0012

FCC ID H8N-ASK-RTL108

FCC Rule Part: 2, 22H & 24E & 27C

Issue Date: Mar. 05, 2020

Date of Test: Nov. 26, 2019 ~ Jan. 22, 2020

Date of EUT Received: Nov. 26, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

CHUN-CHIEH, CHEN

Chun Chieh Chen / Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
E2/2019/B0012	Rev.00	Original.	Mar. 05, 2020	Revised By: Yuri Tsai

Note:

A second source of the Printed Circuit Board (PCB) of the WWAN RF section is used, the main source and the second source PCBs are identical but manufactured by different suppliers. RSE spot check has been provided in section 9 of this report to demonstrate compliance in RF characteristics.

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Contents

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION.....	9
3	SUMMARY OF TEST RESULTS.....	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	17
6	MAXMUM OUTPUT POWER.....	18
7	OCCUPIED BANDWIDTH MEASUREMENT.....	44
8	OUT OF BAND EMISSION AT ANTENNA TERMINALS.....	82
9	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	125
10	FREQUENCY STABILITY MEASUREMENT	215
11	PEAK TO AVERAGE RATIO.....	219

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	Cat 12 Indoor CPE	
Brand Name:	Verizon	
Model No.:	ASK-RTL108	
Model Difference:	N/A	
Hardware Version:	REV 3.0	
Software Version:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	1. Model No.: PS24L120K2000UD, Supplier: FLYPOWER 2. Model No.: WB-24J12FU, Supplier: Asian Power Devices Inc.
IMEI:	359403109903190	

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1.2 Operation Frequency Range

LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7	-	1909.3
	3	1851.5	-	1908.5
	5	1852.5	-	1907.5
	10	1855.0	-	1905.0
	15	1857.5	-	1902.5
	20	1860.0	-	1900.0
4	1.4	1710.7	-	1754.3
	3	1711.5	-	1753.5
	5	1712.5	-	1752.5
	10	1715.0	-	1750.0
	15	1717.5	-	1747.5
	20	1720.0	-	1745.0
5	1.4	824.7	-	848.3
	3	825.5	-	847.5
	5	826.5	-	846.5
	10	829.0	-	844.0
13	5	779.5	-	784.5
	10	782		
66	1.4	1710.7	-	1779.3
	3	1711.5	-	1778.5
	5	1712.5	-	1777.5
	10	1715.0	-	1775.0
	15	1717.5	-	1772.5
	20	1720.0	-	1770.0

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1.3 Antenna Designation

Internal

Vendor	Type	Model Name	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
N/A	PIFA	Main	LTE Band 2	1850	~	1910	3.61
			LTE Band 4	1710	~	1755	3.27
			LTE Band 5	824	~	849	1.42
			LTE Band 13	777	~	787	0.01
			LTE Band 66	1710	~	1780	3.27

External

Vendor	Type	Model Name	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
Master Wave Technology Co., Ltd.	Monopole	98619ZSAX031	LTE Band 2	1850	~	1910	2.82
			LTE Band 4	1710	~	1755	2.93
			LTE Band 5	824	~	849	2.41
			LTE Band 13	777	~	787	N/A
			LTE Band 66	1710	~	1780	2.93

1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	28.10	EIRP	0.646	1M09G7D
		16QAM	28.06	EIRP	0.640	1M09D7W
		64QAM	27.87	EIRP	0.613	1M09D7W
2	3	QPSK	28.16	EIRP	0.655	2M70G7D
		16QAM	27.96	EIRP	0.626	2M70D7W
		64QAM	28.07	EIRP	0.642	2M70D7W
2	5	QPSK	28.02	EIRP	0.634	4M50G7D
		16QAM	28.02	EIRP	0.634	4M49D7W
		64QAM	28.16	EIRP	0.655	4M51D7W
2	10	QPSK	28.14	EIRP	0.652	9M02G7D
		16QAM	27.97	EIRP	0.627	8M96D7W
		64QAM	28.05	EIRP	0.639	8M99D7W
2	15	QPSK	28.09	EIRP	0.645	13M5G7D
		16QAM	27.94	EIRP	0.623	13M5D7W
		64QAM	27.93	EIRP	0.621	13M5D7W
2	20	QPSK	28.30	EIRP	0.677	18M0G7D
		16QAM	27.85	EIRP	0.610	18M0D7W
		64QAM	27.92	EIRP	0.620	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	27.73	EIRP	0.593	1M09G7D
		16QAM	27.63	EIRP	0.579	1M10D7W
		64QAM	26.48	EIRP	0.445	1M09D7W
4	3	QPSK	27.81	EIRP	0.604	2M70G7D
		16QAM	27.41	EIRP	0.551	2M70D7W
		64QAM	27.68	EIRP	0.586	2M70D7W
4	5	QPSK	27.84	EIRP	0.608	4M50G7D
		16QAM	27.70	EIRP	0.589	4M50D7W
		64QAM	26.97	EIRP	0.498	4M51D7W
4	10	QPSK	27.80	EIRP	0.603	9M01G7D
		16QAM	27.20	EIRP	0.525	8M97D7W
		64QAM	27.09	EIRP	0.512	8M99D7W
4	15	QPSK	27.94	EIRP	0.622	13M5G7D
		16QAM	27.46	EIRP	0.557	13M5D7W
		64QAM	27.47	EIRP	0.559	13M5D7W
4	20	QPSK	27.84	EIRP	0.608	17M9G7D
		16QAM	27.62	EIRP	0.578	18M0D7W
		64QAM	27.19	EIRP	0.524	18M0D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	23.72	ERP	0.235	1M09G7D
		16QAM	23.60	ERP	0.229	1M09D7W
		64QAM	23.68	ERP	0.233	1M09D7W
5	3	QPSK	23.85	ERP	0.243	2M70G7D
		16QAM	23.63	ERP	0.231	2M70D7W
		64QAM	23.77	ERP	0.238	2M70D7W
5	5	QPSK	23.67	ERP	0.233	4M50G7D
		16QAM	23.60	ERP	0.229	4M49D7W
		64QAM	23.67	ERP	0.233	4M51D7W
5	10	QPSK	23.71	ERP	0.235	9M01G7D
		16QAM	23.68	ERP	0.233	8M97D7W
		64QAM	23.71	ERP	0.235	8M99D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	22.33	ERP	0.171	4M50G7D
		16QAM	22.29	ERP	0.170	4M50D7W
		64QAM	22.26	ERP	0.168	4M51D7W
13	10	QPSK	22.30	ERP	0.170	8M97G7D
		16QAM	21.85	ERP	0.153	8M95D7W
		64QAM	21.97	ERP	0.157	8M98D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	27.82	EIRP	0.605	1M09G7D
		16QAM	27.53	EIRP	0.566	1M09D7W
		64QAM	26.65	EIRP	0.462	1M10D7W
66	3	QPSK	27.88	EIRP	0.614	2M70G7D
		16QAM	27.30	EIRP	0.537	2M70D7W
		64QAM	26.34	EIRP	0.431	2M70D7W
66	5	QPSK	27.85	EIRP	0.610	4M50G7D
		16QAM	27.39	EIRP	0.548	4M50D7W
		64QAM	26.54	EIRP	0.451	4M51D7W
66	10	QPSK	27.89	EIRP	0.615	9M00G7D
		16QAM	27.46	EIRP	0.557	8M97D7W
		64QAM	26.58	EIRP	0.455	8M99D7W
66	15	QPSK	27.82	EIRP	0.605	13M5G7D
		16QAM	27.28	EIRP	0.535	13M5D7W
		64QAM	26.42	EIRP	0.439	13M5D7W
66	20	QPSK	27.83	EIRP	0.607	17M9G7D
		16QAM	27.25	EIRP	0.531	18M0D7W
		64QAM	26.39	EIRP	0.436	18M0D7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory (TAF code 0513)

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0002

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	3.8	10	13.8

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2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2	12	402
LTE Band 4		404
LTE Band 5		405
LTE Band 13		401
LTE Band 66		407

2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

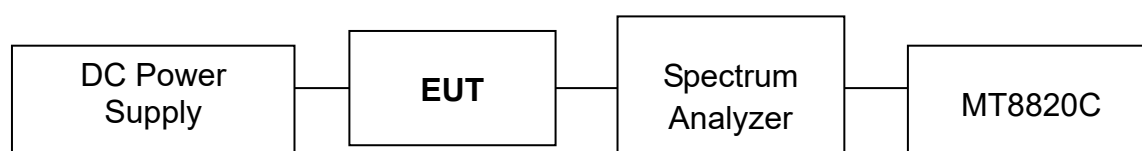


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

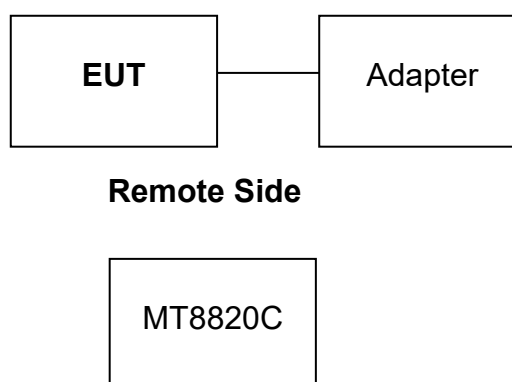


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6201107337	shielded	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(d)(4) §27.50(b)(10)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h) §27.53(c)(2)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	E2-plan
LTE Band 13	E2-plan
LTE Band 66	E2-plan

Note: The device does not support MIMO transmitting mode (1T3R).

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4.2 Measurement Configuration

LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	18650 to 19150	18900	10MHz	QPSK	Full RB
OCCUPIED BAND- WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS- SION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18625 to 19175	18625, 18900, 19175	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	20000 to 20350	20175	10MHz	QPSK	Full RB
OCCUPIED BAND- WIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS- SION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABIL- ITY	20450 to 20600	20525	10MHz	QPSK	Full RB
OCCUPIED BAND- WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMIS- SION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA- BILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BAND- WIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMIS- SION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABIL- ITY	18650 to 19150	18900	10MHz	QPSK	Full RB
OCCUPIED BAND- WIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMIS- SION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

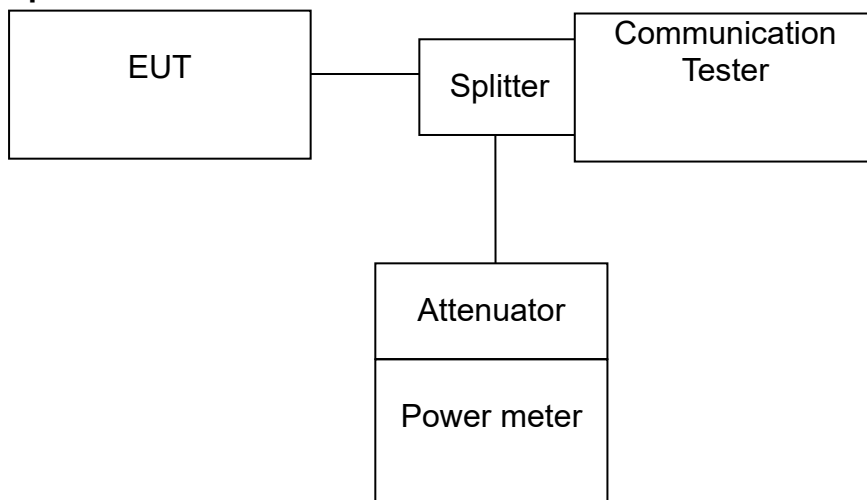
FCC 27.50 (b)

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

6.4 Determining ERP and/or EIRP from conducted RF output power measurements

$$ERP/EIRP = P_{Meas} + GT - LC$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

6.5 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF207	11/20/2019	11/19/2020

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6.6 LTE Measurement Results:

Antenna gain (dBi) 3.61

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.49	28.10	33	-4.8958
				1	5	24.24	27.85	33	-5.1458
				3	2	24.33	27.94	33	-5.0558
				6	0	24.13	27.74	33	-5.2558
	18900	1880	QPSK	1	0	24.29	27.90	33	-5.0958
				1	5	24.21	27.82	33	-5.1758
				3	2	24.28	27.89	33	-5.1058
				6	0	24.23	27.84	33	-5.1558
	19193	1909.3	QPSK	1	0	24.25	27.86	33	-5.1358
				1	5	24.13	27.74	33	-5.2558
				3	2	24.12	27.73	33	-5.2658
				6	0	24.12	27.73	33	-5.2658
	18607	1850.7	16QAM	1	0	23.85	27.46	33	-5.5358
				1	5	24.02	27.63	33	-5.3658
				3	2	24.31	27.92	33	-5.0758
				6	0	23.98	27.59	33	-5.4058
	18900	1880	16QAM	1	0	24.01	27.62	33	-5.3758
				1	5	24.04	27.65	33	-5.3458
				3	2	24.45	28.06	33	-4.9358
				6	0	24.27	27.88	33	-5.1158
	19193	1909.3	16QAM	1	0	24.09	27.70	33	-5.2958
				1	5	23.95	27.56	33	-5.4358
				3	2	24.33	27.94	33	-5.0558
				6	0	24.20	27.81	33	-5.1858
	18607	1850.7	64QAM	1	0	24.22	27.83	33	-5.1658
				1	5	24.08	27.69	33	-5.3058
				3	2	24.21	27.82	33	-5.1758
				6	0	24.26	27.87	33	-5.1258
	18900	1880	64QAM	1	0	24.17	27.78	33	-5.2158
				1	5	24.04	27.65	33	-5.3458
				3	2	24.26	27.87	33	-5.1258
				6	0	24.03	27.64	33	-5.3558
	19193	1909.3	64QAM	1	0	24.15	27.76	33	-5.2358
				1	5	23.96	27.57	33	-5.4258
				3	2	24.13	27.74	33	-5.2558
				6	0	24.24	27.85	33	-5.1458

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Antenna gain (dBi) 3.61

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	24.35	27.96	33	-5.0358
				1	14	24.30	27.91	33	-5.0858
				8	4	24.45	28.06	33	-4.9358
				15	0	24.33	27.94	33	-5.0558
	18900	1880	QPSK	1	0	24.32	27.93	33	-5.0658
				1	14	24.23	27.84	33	-5.1558
				8	4	24.25	27.86	33	-5.1358
				15	0	24.22	27.83	33	-5.1658
	19185	1908.5	QPSK	1	0	23.98	27.59	33	-5.4058
				1	14	24.34	27.95	33	-5.0458
				8	4	24.55	28.16	33	-4.8358
				15	0	24.23	27.84	33	-5.1558
	18615	1851.5	16QAM	1	0	23.87	27.48	33	-5.5158
				1	14	23.75	27.36	33	-5.6358
				8	4	24.23	27.84	33	-5.1558
				15	0	24.35	27.96	33	-5.0358
	18900	1880	16QAM	1	0	24.16	27.77	33	-5.2258
				1	14	23.94	27.55	33	-5.4458
				8	4	24.14	27.75	33	-5.2458
				15	0	24.06	27.67	33	-5.3258
	19185	1908.5	16QAM	1	0	24.09	27.70	33	-5.2958
				1	14	23.99	27.60	33	-5.3958
				8	4	23.95	27.56	33	-5.4358
				15	0	24.15	27.76	33	-5.2358
	18615	1851.5	64QAM	1	0	23.98	27.59	33	-5.4058
				1	14	24.10	27.71	33	-5.2858
				8	4	24.08	27.69	33	-5.3058
				15	0	24.46	28.07	33	-4.9258
	18900	1880	64QAM	1	0	24.05	27.66	33	-5.3358
				1	14	23.97	27.58	33	-5.4158
				8	4	24.09	27.70	33	-5.2958
				15	0	24.06	27.67	33	-5.3258
	19185	1908.5	64QAM	1	0	23.86	27.47	33	-5.5258
				1	14	23.89	27.50	33	-5.4958
				8	4	23.98	27.59	33	-5.4058
				15	0	24.23	27.84	33	-5.1558

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	24.25	27.86	33	-5.1358
				1	24	24.34	27.95	33	-5.0458
				12	6	24.30	27.91	33	-5.0858
				25	0	23.97	27.58	33	-5.4158
	18900	1880	QPSK	1	0	24.21	27.82	33	-5.1758
				1	24	24.34	27.95	33	-5.0458
				12	6	24.41	28.02	33	-4.9758
				25	0	24.16	27.77	33	-5.2258
	19175	1907.5	QPSK	1	0	24.40	28.01	33	-4.9858
				1	24	24.19	27.80	33	-5.1958
				12	6	23.96	27.57	33	-5.4258
				25	0	24.05	27.66	33	-5.3358
	18625	1852.5	16QAM	1	0	23.94	27.55	33	-5.4458
				1	24	23.95	27.56	33	-5.4358
				12	6	24.02	27.63	33	-5.3658
				25	0	24.26	27.87	33	-5.1258
	18900	1880	16QAM	1	0	24.04	27.65	33	-5.3458
				1	24	23.66	27.27	33	-5.7258
				12	6	24.36	27.97	33	-5.0258
				25	0	24.29	27.90	33	-5.0958
	19175	1907.5	16QAM	1	0	24.04	27.65	33	-5.3458
				1	24	24.11	27.72	33	-5.2758
				12	6	24.40	28.01	33	-4.9858
				25	0	24.41	28.02	33	-4.9758
	18625	1852.5	64QAM	1	0	23.70	27.31	33	-5.6858
				1	24	23.82	27.43	33	-5.5658
				12	6	24.12	27.73	33	-5.2658
				25	0	24.32	27.93	33	-5.0658
	18900	1880	64QAM	1	0	24.11	27.72	33	-5.2758
				1	24	24.01	27.62	33	-5.3758
				12	6	24.36	27.97	33	-5.0258
				25	0	24.24	27.85	33	-5.1458
	19175	1907.5	64QAM	1	0	24.21	27.82	33	-5.1758
				1	24	23.92	27.53	33	-5.4658
				12	6	24.12	27.73	33	-5.2658
				25	0	24.55	28.16	33	-4.8358

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Antenna gain (dBi) 3.61

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	24.53	28.14	33	-4.8558
				1	49	24.02	27.63	33	-5.3658
				25	12	24.46	28.07	33	-4.9258
				50	0	24.28	27.89	33	-5.1058
	18900	1880	QPSK	1	0	24.18	27.79	33	-5.2058
				1	49	24.45	28.06	33	-4.9358
				25	12	24.50	28.11	33	-4.8858
				50	0	23.97	27.58	33	-5.4158
	19150	1905	QPSK	1	0	24.31	27.92	33	-5.0758
				1	49	24.38	27.99	33	-5.0058
				25	12	24.37	27.98	33	-5.0158
				50	0	24.21	27.82	33	-5.1758
	18650	1855	16QAM	1	0	23.95	27.56	33	-5.4358
				1	49	23.84	27.45	33	-5.5458
				25	12	24.16	27.77	33	-5.2258
				50	0	24.36	27.97	33	-5.0258
	18900	1880	16QAM	1	0	24.07	27.68	33	-5.3158
				1	49	23.93	27.54	33	-5.4558
				25	12	24.28	27.89	33	-5.1058
				50	0	24.17	27.78	33	-5.2158
	19150	1905	16QAM	1	0	24.11	27.72	33	-5.2758
				1	49	23.91	27.52	33	-5.4758
				25	12	24.03	27.64	33	-5.3558
				50	0	24.32	27.93	33	-5.0658
	18650	1855	64QAM	1	0	24.11	27.72	33	-5.2758
				1	49	24.27	27.88	33	-5.1158
				25	12	24.39	28.00	33	-4.9958
				50	0	24.07	27.68	33	-5.3158
	18900	1880	64QAM	1	0	23.86	27.47	33	-5.5258
				1	49	24.17	27.78	33	-5.2158
				25	12	24.04	27.65	33	-5.3458
				50	0	24.44	28.05	33	-4.9458
	19150	1905	64QAM	1	0	23.79	27.40	33	-5.5958
				1	49	22.20	25.81	33	-7.1858
				25	12	23.05	26.66	33	-6.3358
				50	0	23.77	27.38	33	-5.6158

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Antenna gain (dBi) 3.61

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	24.24	27.85	33	-5.1458
				1	74	24.26	27.87	33	-5.1258
				36	18	24.03	27.64	33	-5.3558
				75	0	24.23	27.84	33	-5.1558
	18900	1880	QPSK	1	0	24.39	28.00	33	-4.9958
				1	74	24.29	27.90	33	-5.0958
				36	18	24.07	27.68	33	-5.3158
				75	0	24.48	28.09	33	-4.9058
	19125	1902.5	QPSK	1	0	24.45	28.06	33	-4.9358
				1	74	24.33	27.94	33	-5.0558
				36	18	23.97	27.58	33	-5.4158
				75	0	24.19	27.80	33	-5.1958
	18675	1857.5	16QAM	1	0	24.09	27.70	33	-5.2958
				1	74	23.88	27.49	33	-5.5058
				36	18	24.12	27.73	33	-5.2658
				75	0	24.33	27.94	33	-5.0558
	18900	1880	16QAM	1	0	24.08	27.69	33	-5.3058
				1	74	23.92	27.53	33	-5.4658
				36	18	23.87	27.48	33	-5.5158
				75	0	24.15	27.76	33	-5.2358
	19125	1902.5	16QAM	1	0	24.18	27.79	33	-5.2058
				1	74	23.84	27.45	33	-5.5458
				36	18	24.24	27.85	33	-5.1458
				75	0	23.96	27.57	33	-5.4258
	18675	1857.5	64QAM	1	0	23.81	27.42	33	-5.5758
				1	74	23.78	27.39	33	-5.6058
				36	18	24.32	27.93	33	-5.0658
				75	0	24.26	27.87	33	-5.1258
	18900	1880	64QAM	1	0	24.20	27.81	33	-5.1858
				1	74	23.26	26.87	33	-6.1258
				36	18	24.14	27.75	33	-5.2458
				75	0	23.67	27.28	33	-5.7158
	19125	1902.5	64QAM	1	0	22.30	25.91	33	-7.0858
				1	74	22.02	25.63	33	-7.3658
				36	18	23.54	27.15	33	-5.8458
				75	0	22.19	25.80	33	-7.1958

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Antenna gain (dBi) 3.61

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	24.33	27.94	33	-5.0558
				1	99	24.12	27.73	33	-5.2658
				50	25	23.94	27.55	33	-5.4458
				100	0	24.29	27.90	33	-5.0958
	18900	1880	QPSK	1	0	24.69	28.30	33	-4.6958
				1	99	24.29	27.90	33	-5.0958
				50	25	24.12	27.73	33	-5.2658
				100	0	24.20	27.81	33	-5.1858
	19100	1900	QPSK	1	0	24.60	28.21	33	-4.7858
				1	99	24.30	27.91	33	-5.0858
				50	25	23.85	27.46	33	-5.5358
				100	0	23.88	27.49	33	-5.5058
	18700	1860	16QAM	1	0	24.14	27.75	33	-5.2458
				1	99	23.83	27.44	33	-5.5558
				50	25	24.08	27.69	33	-5.3058
				100	0	24.09	27.70	33	-5.2958
	18900	1880	16QAM	1	0	23.92	27.53	33	-5.4658
				1	99	23.66	27.27	33	-5.7258
				50	25	24.24	27.85	33	-5.1458
				100	0	23.90	27.51	33	-5.4858
	19100	1900	16QAM	1	0	24.18	27.79	33	-5.2058
				1	99	23.93	27.54	33	-5.4558
				50	25	23.85	27.46	33	-5.5358
				100	0	23.87	27.48	33	-5.5158
	18700	1860	64QAM	1	0	24.03	27.64	33	-5.3558
				1	99	23.98	27.59	33	-5.4058
				50	25	24.31	27.92	33	-5.0758
				100	0	24.09	27.70	33	-5.2958
	18900	1880	64QAM	1	0	23.91	27.52	33	-5.4758
				1	99	22.90	26.51	33	-6.4858
				50	25	23.80	27.41	33	-5.5858
				100	0	23.84	27.45	33	-5.5458
	19100	1900	64QAM	1	0	23.75	27.36	33	-5.6358
				1	99	18.71	22.32	33	-10.676
				50	25	21.93	25.54	33	-7.4558
				100	0	23.76	27.37	33	-5.6258

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Antenna gain (dBi) 3.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.42	26.69	30	-3.30948
				1	5	23.55	26.82	30	-3.17948
				3	2	23.55	26.82	30	-3.17948
				6	0	22.51	25.78	30	-4.21948
	20175	1732.5	QPSK	1	0	24.33	27.60	30	-2.39948
				1	5	24.33	27.60	30	-2.39948
				3	2	24.42	27.69	30	-2.30948
				6	0	24.46	27.73	30	-2.26948
	20393	1754.3	QPSK	1	0	24.43	27.70	30	-2.29948
				1	5	24.43	27.70	30	-2.29948
				3	2	24.44	27.71	30	-2.28948
				6	0	23.44	26.71	30	-3.28948
	19957	1710.7	16QAM	1	0	22.71	25.98	30	-4.01948
				1	5	22.75	26.02	30	-3.97948
				3	2	22.63	25.90	30	-4.09948
				6	0	21.63	24.90	30	-5.09948
	20175	1732.5	16QAM	1	0	23.98	27.25	30	-2.74948
				1	5	23.56	26.83	30	-3.16948
				3	2	24.36	27.63	30	-2.36948
				6	0	22.80	26.07	30	-3.92948
	20393	1754.3	16QAM	1	0	23.40	26.67	30	-3.32948
				1	5	23.40	26.67	30	-3.32948
				3	2	23.53	26.80	30	-3.19948
				6	0	22.62	25.89	30	-4.10948
	19957	1710.7	64QAM	1	0	21.72	24.99	30	-5.00948
				1	5	21.86	25.13	30	-4.86948
				3	2	21.86	25.13	30	-4.86948
				6	0	20.46	23.73	30	-6.26948
	20175	1732.5	64QAM	1	0	22.50	25.77	30	-4.22948
				1	5	22.49	25.76	30	-4.23948
				3	2	23.21	26.48	30	-3.51948
				6	0	22.56	25.83	30	-4.16948
	20393	1754.3	64QAM	1	0	22.13	25.40	30	-4.59948
				1	5	22.17	25.44	30	-4.55948
				3	2	22.65	25.92	30	-4.07948
				6	0	21.51	24.78	30	-5.21948

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.63	26.90	30	-3.09948
				1	14	23.81	27.08	30	-2.91948
				8	4	22.79	26.06	30	-3.93948
				15	0	22.80	26.07	30	-3.92948
	20175	1732.5	QPSK	1	0	24.50	27.77	30	-2.22948
				1	14	24.42	27.69	30	-2.30948
				8	4	24.54	27.81	30	-2.18948
				15	0	24.48	27.75	30	-2.24948
	20385	1753.5	QPSK	1	0	24.50	27.77	30	-2.22948
				1	14	24.47	27.74	30	-2.25948
				8	4	23.59	26.86	30	-3.13948
				15	0	23.51	26.78	30	-3.21948
	19965	1711.5	16QAM	1	0	23.02	26.29	30	-3.70948
				1	14	23.18	26.45	30	-3.54948
				8	4	21.86	25.13	30	-4.86948
				15	0	21.82	25.09	30	-4.90948
	20175	1732.5	16QAM	1	0	24.11	27.38	30	-2.61948
				1	14	24.14	27.41	30	-2.58948
				8	4	23.44	26.71	30	-3.28948
				15	0	23.38	26.65	30	-3.34948
	20385	1753.5	16QAM	1	0	23.68	26.95	30	-3.04948
				1	14	23.70	26.97	30	-3.02948
				8	4	22.50	25.77	30	-4.22948
				15	0	22.42	25.69	30	-4.30948
	19965	1711.5	64QAM	1	0	22.77	26.04	30	-3.95948
				1	14	23.02	26.29	30	-3.70948
				8	4	21.81	25.08	30	-4.91948
				15	0	21.77	25.04	30	-4.95948
	20175	1732.5	64QAM	1	0	24.36	27.63	30	-2.36948
				1	14	24.41	27.68	30	-2.31948
				8	4	23.56	26.83	30	-3.16948
				15	0	23.53	26.80	30	-3.19948
	20385	1753.5	64QAM	1	0	23.68	26.95	30	-3.04948
				1	14	23.51	26.78	30	-3.21948
				8	4	22.70	25.97	30	-4.02948
				15	0	22.58	25.85	30	-4.14948

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5	19975	1712.5	QPSK	1	0	23.56	26.83	30	-3.16948
				1	24	23.95	27.22	30	-2.77948
				12	6	22.91	26.18	30	-3.81948
				25	0	22.78	26.05	30	-3.94948
	20175	1732.5	QPSK	1	0	24.52	27.79	30	-2.20948
				1	24	24.45	27.72	30	-2.27948
				12	6	24.57	27.84	30	-2.15948
				25	0	24.49	27.76	30	-2.23948
	20375	1752.5	QPSK	1	0	24.47	27.74	30	-2.25948
				1	24	24.35	27.62	30	-2.37948
				12	6	23.59	26.86	30	-3.13948
				25	0	23.46	26.73	30	-3.26948
	19975	1712.5	16QAM	1	0	22.97	26.24	30	-3.75948
				1	24	23.40	26.67	30	-3.32948
				12	6	21.95	25.22	30	-4.77948
				25	0	21.74	25.01	30	-4.98948
	20175	1732.5	16QAM	1	0	24.43	27.70	30	-2.29948
				1	24	24.40	27.67	30	-2.32948
				12	6	23.21	26.48	30	-3.51948
				25	0	23.31	26.58	30	-3.41948
	20375	1752.5	16QAM	1	0	23.89	27.16	30	-2.83948
				1	24	23.65	26.92	30	-3.07948
				12	6	22.59	25.86	30	-4.13948
				25	0	22.56	25.83	30	-4.16948
	19975	1712.5	64QAM	1	0	23.13	26.40	30	-3.59948
				1	24	23.49	26.76	30	-3.23948
				12	6	21.88	25.15	30	-4.84948
				25	0	21.80	25.07	30	-4.92948
	20175	1732.5	64QAM	1	0	23.70	26.97	30	-3.02948
				1	24	23.63	26.90	30	-3.09948
				12	6	23.60	26.87	30	-3.12948
				25	0	23.54	26.81	30	-3.18948
	20375	1752.5	64QAM	1	0	23.69	26.96	30	-3.03948
				1	24	23.16	26.43	30	-3.56948
				12	6	22.58	25.85	30	-4.14948
				25	0	22.52	25.79	30	-4.20948

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Antenna gain (dBi) 3.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.75	27.02	30	-2.97948
				1	49	24.26	27.53	30	-2.46948
				25	12	23.24	26.51	30	-3.48948
				50	0	23.03	26.30	30	-3.69948
	20175	1732.5	QPSK	1	0	24.53	27.80	30	-2.19948
				1	49	24.41	27.68	30	-2.31948
				25	12	24.48	27.75	30	-2.24948
				50	0	24.46	27.73	30	-2.26948
	20375	1750	QPSK	1	0	24.52	27.79	30	-2.20948
				1	49	24.41	27.68	30	-2.31948
				25	12	23.90	27.17	30	-2.82948
				50	0	23.86	27.13	30	-2.86948
	20000	1715	16QAM	1	0	22.78	26.05	30	-3.94948
				1	49	23.41	26.68	30	-3.31948
				25	12	22.31	25.58	30	-4.41948
				50	0	22.15	25.42	30	-4.57948
	20175	1732.5	16QAM	1	0	23.80	27.07	30	-2.92948
				1	49	23.69	26.96	30	-3.03948
				25	12	23.33	26.60	30	-3.39948
				50	0	23.53	26.80	30	-3.19948
	20375	1750	16QAM	1	0	23.93	27.20	30	-2.79948
				1	49	23.70	26.97	30	-3.02948
				25	12	23.04	26.31	30	-3.68948
				50	0	22.94	26.21	30	-3.78948
	20000	1715	64QAM	1	0	22.92	26.19	30	-3.80948
				1	49	23.82	27.09	30	-2.90948
				25	12	22.28	25.55	30	-4.44948
				50	0	22.14	25.41	30	-4.58948
	20175	1732.5	64QAM	1	0	23.76	27.03	30	-2.96948
				1	49	23.49	26.76	30	-3.23948
				25	12	23.48	26.75	30	-3.24948
				50	0	23.52	26.79	30	-3.20948
	20375	1750	64QAM	1	0	23.67	26.94	30	-3.05948
				1	49	23.58	26.85	30	-3.14948
				25	12	22.98	26.25	30	-3.74948
				50	0	22.87	26.14	30	-3.85948

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Antenna gain (dBi) 3.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.70	26.97	30	-3.02948
				1	74	24.45	27.72	30	-2.27948
				36	18	23.53	26.80	30	-3.19948
				75	0	23.23	26.50	30	-3.49948
	20175	1732.5	QPSK	1	0	24.66	27.93	30	-2.06948
				1	74	24.38	27.65	30	-2.34948
				36	18	24.57	27.84	30	-2.15948
				75	0	24.52	27.79	30	-2.20948
	20325	1747.5	QPSK	1	0	24.67	27.94	30	-2.05948
				1	74	24.40	27.67	30	-2.32948
				36	18	24.14	27.41	30	-2.58948
				75	0	23.87	27.14	30	-2.85948
	20025	1717.5	16QAM	1	0	22.88	26.15	30	-3.84948
				1	74	23.64	26.91	30	-3.08948
				36	18	22.50	25.77	30	-4.22948
				75	0	22.34	25.61	30	-4.38948
	20175	1732.5	16QAM	1	0	24.19	27.46	30	-2.53948
				1	74	24.03	27.30	30	-2.69948
				36	18	23.42	26.69	30	-3.30948
				75	0	23.33	26.60	30	-3.39948
	20325	1747.5	16QAM	1	0	23.89	27.16	30	-2.83948
				1	74	23.67	26.94	30	-3.05948
				36	18	23.11	26.38	30	-3.61948
				75	0	23.01	26.28	30	-3.71948
	20025	1717.5	64QAM	1	0	22.62	25.89	30	-4.10948
				1	74	23.23	26.50	30	-3.49948
				36	18	22.52	25.79	30	-4.20948
				75	0	22.33	25.60	30	-4.39948
	20175	1732.5	64QAM	1	0	24.20	27.47	30	-2.52948
				1	74	23.61	26.88	30	-3.11948
				36	18	23.25	26.52	30	-3.47948
				75	0	23.53	26.80	30	-3.19948
	20325	1747.5	64QAM	1	0	23.71	26.98	30	-3.01948
				1	74	23.38	26.65	30	-3.34948
				36	18	23.13	26.40	30	-3.59948
				75	0	22.96	26.23	30	-3.76948

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Antenna gain (dBi) 3.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.74	27.01	30	-2.98948
				1	99	24.42	27.69	30	-2.30948
				50	25	23.67	26.94	30	-3.05948
				100	0	23.45	26.72	30	-3.27948
	20175	1732.5	QPSK	1	0	24.57	27.84	30	-2.15948
				1	99	24.32	27.59	30	-2.40948
				50	25	24.56	27.83	30	-2.16948
				100	0	24.39	27.66	30	-2.33948
	20300	1745	QPSK	1	0	24.56	27.83	30	-2.16948
				1	99	24.33	27.60	30	-2.39948
				50	25	24.23	27.50	30	-2.49948
				100	0	24.04	27.31	30	-2.68948
	20050	1720	16QAM	1	0	23.06	26.33	30	-3.66948
				1	99	24.12	27.39	30	-2.60948
				50	25	22.77	26.04	30	-3.95948
				100	0	22.58	25.85	30	-4.14948
	20175	1732.5	16QAM	1	0	24.22	27.49	30	-2.50948
				1	99	24.35	27.62	30	-2.37948
				50	25	23.39	26.66	30	-3.33948
				100	0	23.58	26.85	30	-3.14948
	20300	1745	16QAM	1	0	23.64	26.91	30	-3.08948
				1	99	23.49	26.76	30	-3.23948
				50	25	23.32	26.59	30	-3.40948
				100	0	23.13	26.40	30	-3.59948
	20050	1720	64QAM	1	0	23.14	26.41	30	-3.58948
				1	99	23.51	26.78	30	-3.21948
				50	25	22.80	26.07	30	-3.92948
				100	0	22.56	25.83	30	-4.16948
	20175	1732.5	64QAM	1	0	23.90	27.17	30	-2.82948
				1	99	23.59	26.86	30	-3.13948
				50	25	23.60	26.87	30	-3.12948
				100	0	23.56	26.83	30	-3.16948
	20300	1745	64QAM	1	0	23.92	27.19	30	-2.80948
				1	99	23.54	26.81	30	-3.18948
				50	25	23.35	26.62	30	-3.37948
				100	0	23.11	26.38	30	-3.61948

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Antenna gain (dBi) 1.42

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.97	23.24	25.39	38.45	-13.0614
				1	5	24.13	23.40	25.55	38.45	-12.9014
				3	2	24.15	23.42	25.57	38.45	-12.8814
				6	0	24.00	23.27	25.42	38.45	-13.0314
	20525	836.5	QPSK	1	0	24.45	23.72	25.87	38.45	-12.5814
				1	5	24.27	23.54	25.69	38.45	-12.7614
				3	2	24.05	23.32	25.47	38.45	-12.9814
				6	0	24.00	23.27	25.42	38.45	-13.0314
	20643	848.3	QPSK	1	0	24.19	23.46	25.61	38.45	-12.8414
				1	5	24.06	23.33	25.48	38.45	-12.9714
				3	2	24.39	23.66	25.81	38.45	-12.6414
				6	0	24.44	23.71	25.86	38.45	-12.5914
	20407	824.7	16QAM	1	0	24.04	23.31	25.46	38.45	-12.9914
				1	5	24.12	23.39	25.54	38.45	-12.9114
				3	2	24.27	23.54	25.69	38.45	-12.7614
				6	0	24.09	23.36	25.51	38.45	-12.9414
	20525	836.5	16QAM	1	0	24.14	23.41	25.56	38.45	-12.8914
				1	5	24.14	23.41	25.56	38.45	-12.8914
				3	2	24.13	23.40	25.55	38.45	-12.9014
				6	0	24.03	23.30	25.45	38.45	-13.0014
	20643	848.3	16QAM	1	0	24.19	23.46	25.61	38.45	-12.8414
				1	5	24.12	23.39	25.54	38.45	-12.9114
				3	2	24.33	23.60	25.75	38.45	-12.7014
				6	0	24.21	23.48	25.63	38.45	-12.8214
	20407	824.7	64QAM	1	0	24.03	23.30	25.45	38.45	-13.0014
				1	5	23.84	23.11	25.26	38.45	-13.1914
				3	2	23.90	23.17	25.32	38.45	-13.1314
				6	0	24.21	23.48	25.63	38.45	-12.8214
	20525	836.5	64QAM	1	0	24.41	23.68	25.83	38.45	-12.6214
				1	5	24.32	23.59	25.74	38.45	-12.7114
				3	2	23.97	23.24	25.39	38.45	-13.0614
				6	0	24.24	23.51	25.66	38.45	-12.7914
	20643	848.3	64QAM	1	0	24.21	23.48	25.63	38.45	-12.8214
				1	5	24.01	23.28	25.43	38.45	-13.0214
				3	2	24.26	23.53	25.68	38.45	-12.7714
				6	0	24.28	23.55	25.70	38.45	-12.7514

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Antenna gain (dBi) 1.42

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	24.58	23.85	26.00	38.45	-12.4514
				1	14	24.24	23.51	25.66	38.45	-12.7914
				8	4	24.13	23.40	25.55	38.45	-12.9014
				15	0	24.04	23.31	25.46	38.45	-12.9914
	20525	836.5	QPSK	1	0	24.16	23.43	25.58	38.45	-12.8714
				1	14	23.98	23.25	25.40	38.45	-13.0514
				8	4	23.98	23.25	25.40	38.45	-13.0514
				15	0	23.95	23.22	25.37	38.45	-13.0814
	20635	847.5	QPSK	1	0	24.42	23.69	25.84	38.45	-12.6114
				1	14	24.11	23.38	25.53	38.45	-12.9214
				8	4	24.38	23.65	25.80	38.45	-12.6514
				15	0	24.16	23.43	25.58	38.45	-12.8714
	20415	825.5	16QAM	1	0	24.16	23.43	25.58	38.45	-12.8714
				1	14	23.89	23.16	25.31	38.45	-13.1414
				8	4	23.92	23.19	25.34	38.45	-13.1114
				15	0	24.36	23.63	25.78	38.45	-12.6714
	20525	836.5	16QAM	1	0	24.20	23.47	25.62	38.45	-12.8314
				1	14	23.97	23.24	25.39	38.45	-13.0614
				8	4	24.12	23.39	25.54	38.45	-12.9114
				15	0	24.21	23.48	25.63	38.45	-12.8214
	20635	847.5	16QAM	1	0	23.98	23.25	25.40	38.45	-13.0514
				1	14	24.31	23.58	25.73	38.45	-12.7214
				8	4	24.18	23.45	25.60	38.45	-12.8514
				15	0	24.17	23.44	25.59	38.45	-12.8614
	20415	825.5	64QAM	1	0	24.13	23.40	25.55	38.45	-12.9014
				1	14	24.05	23.32	25.47	38.45	-12.9814
				8	4	24.34	23.61	25.76	38.45	-12.6914
				15	0	24.50	23.77	25.92	38.45	-12.5314
	20525	836.5	64QAM	1	0	23.90	23.17	25.32	38.45	-13.1314
				1	14	23.98	23.25	25.40	38.45	-13.0514
				8	4	24.19	23.46	25.61	38.45	-12.8414
				15	0	24.19	23.46	25.61	38.45	-12.8414
	20635	847.5	64QAM	1	0	24.36	23.63	25.78	38.45	-12.6714
				1	14	23.89	23.16	25.31	38.45	-13.1414
				8	4	24.30	23.57	25.72	38.45	-12.7314
				15	0	24.24	23.51	25.66	38.45	-12.7914

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Antenna gain (dBi) 1.42

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	24.33	23.60	25.75	38.45	-12.7014
				1	24	24.22	23.49	25.64	38.45	-12.8114
				12	6	24.40	23.67	25.82	38.45	-12.6314
				25	0	24.40	23.67	25.82	38.45	-12.6314
	20525	836.5	QPSK	1	0	24.29	23.56	25.71	38.45	-12.7414
				1	24	24.21	23.48	25.63	38.45	-12.8214
				12	6	24.03	23.30	25.45	38.45	-13.0014
				25	0	24.18	23.45	25.60	38.45	-12.8514
	20625	846.5	QPSK	1	0	24.22	23.49	25.64	38.45	-12.8114
				1	24	24.29	23.56	25.71	38.45	-12.7414
				12	6	24.31	23.58	25.73	38.45	-12.7214
				25	0	24.25	23.52	25.67	38.45	-12.7814
	20425	826.5	16QAM	1	0	24.26	23.53	25.68	38.45	-12.7714
				1	24	23.95	23.22	25.37	38.45	-13.0814
				12	6	24.27	23.54	25.69	38.45	-12.7614
				25	0	24.28	23.55	25.70	38.45	-12.7514
	20525	836.5	16QAM	1	0	24.12	23.39	25.54	38.45	-12.9114
				1	24	24.10	23.37	25.52	38.45	-12.9314
				12	6	24.19	23.46	25.61	38.45	-12.8414
				25	0	24.27	23.54	25.69	38.45	-12.7614
	20625	846.5	16QAM	1	0	24.06	23.33	25.48	38.45	-12.9714
				1	24	24.10	23.37	25.52	38.45	-12.9314
				12	6	24.26	23.53	25.68	38.45	-12.7714
				25	0	24.33	23.60	25.75	38.45	-12.7014
	20425	826.5	64QAM	1	0	23.98	23.25	25.40	38.45	-13.0514
				1	24	24.03	23.30	25.45	38.45	-13.0014
				12	6	24.16	23.43	25.58	38.45	-12.8714
				25	0	24.17	23.44	25.59	38.45	-12.8614
	20525	836.5	64QAM	1	0	23.99	23.26	25.41	38.45	-13.0414
				1	24	23.76	23.03	25.18	38.45	-13.2714
				12	6	24.14	23.41	25.56	38.45	-12.8914
				25	0	24.23	23.50	25.65	38.45	-12.8014
	20625	846.5	64QAM	1	0	23.92	23.19	25.34	38.45	-13.1114
				1	24	24.08	23.35	25.50	38.45	-12.9514
				12	6	24.16	23.43	25.58	38.45	-12.8714
				25	0	24.40	23.67	25.82	38.45	-12.6314

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Antenna gain (dBi) 1.42

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	24.28	23.55	25.70	38.45	-12.7514
				1	49	24.15	23.42	25.57	38.45	-12.8814
				25	12	23.99	23.26	25.41	38.45	-13.0414
				50	0	24.26	23.53	25.68	38.45	-12.7714
	20525	836.5	QPSK	1	0	24.44	23.71	25.86	38.45	-12.5914
				1	49	24.25	23.52	25.67	38.45	-12.7814
				25	12	24.25	23.52	25.67	38.45	-12.7814
				50	0	24.28	23.55	25.70	38.45	-12.7514
	20600	844	QPSK	1	0	24.23	23.50	25.65	38.45	-12.8014
				1	49	24.38	23.65	25.80	38.45	-12.6514
				25	12	24.04	23.31	25.46	38.45	-12.9914
				50	0	23.92	23.19	25.34	38.45	-13.1114
	20450	829	16QAM	1	0	24.11	23.38	25.53	38.45	-12.9214
				1	49	23.98	23.25	25.40	38.45	-13.0514
				25	12	24.28	23.55	25.70	38.45	-12.7514
				50	0	24.41	23.68	25.83	38.45	-12.6214
	20525	836.5	16QAM	1	0	24.15	23.42	25.57	38.45	-12.8814
				1	49	24.09	23.36	25.51	38.45	-12.9414
				25	12	24.29	23.56	25.71	38.45	-12.7414
				50	0	24.35	23.62	25.77	38.45	-12.6814
	20600	844	16QAM	1	0	23.95	23.22	25.37	38.45	-13.0814
				1	49	24.19	23.46	25.61	38.45	-12.8414
				25	12	24.14	23.41	25.56	38.45	-12.8914
				50	0	23.92	23.19	25.34	38.45	-13.1114
	20450	829	64QAM	1	0	24.17	23.44	25.59	38.45	-12.8614
				1	49	23.98	23.25	25.40	38.45	-13.0514
				25	12	24.41	23.68	25.83	38.45	-12.6214
				50	0	23.98	23.25	25.40	38.45	-13.0514
	20525	836.5	64QAM	1	0	24.04	23.31	25.46	38.45	-12.9914
				1	49	24.07	23.34	25.49	38.45	-12.9614
				25	12	24.19	23.46	25.61	38.45	-12.8414
				50	0	24.33	23.60	25.75	38.45	-12.7014
	20600	844	64QAM	1	0	24.04	23.31	25.46	38.45	-12.9914
				1	49	24.44	23.71	25.86	38.45	-12.5914
				25	12	24.23	23.50	25.65	38.45	-12.8014
				50	0	24.24	23.51	25.66	38.45	-12.7914

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Antenna gain (dBi) 0.01

LTE Band 13 Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	24.42	22.28	24.43	34.77	-10.3378
				1	24	24.45	22.31	24.46	34.77	-10.3078
				12	6	23.96	21.82	23.97	34.77	-10.7978
				25	0	23.99	21.85	24.00	34.77	-10.7678
	23230	782	QPSK	1	0	24.22	22.08	24.23	34.77	-10.5378
				1	24	24.16	22.02	24.17	34.77	-10.5978
				12	6	24.31	22.17	24.32	34.77	-10.4478
				25	0	24.23	22.09	24.24	34.77	-10.5278
	23255	784.5	QPSK	1	0	24.47	22.33	24.48	34.77	-10.2878
				1	24	24.13	21.99	24.14	34.77	-10.6278
				12	6	24.33	22.19	24.34	34.77	-10.4278
				25	0	24.42	22.28	24.43	34.77	-10.3378
	23205	779.5	16QAM	1	0	23.79	21.65	23.80	34.77	-10.9678
				1	24	23.80	21.66	23.81	34.77	-10.9578
				12	6	24.11	21.97	24.12	34.77	-10.6478
				25	0	24.04	21.90	24.05	34.77	-10.7178
	23230	782	16QAM	1	0	23.81	21.67	23.82	34.77	-10.9478
				1	24	23.83	21.69	23.84	34.77	-10.9278
				12	6	24.24	22.10	24.25	34.77	-10.5178
				25	0	24.28	22.14	24.29	34.77	-10.4778
	23255	784.5	16QAM	1	0	23.84	21.70	23.85	34.77	-10.9178
				1	24	23.96	21.82	23.97	34.77	-10.7978
				12	6	24.42	22.28	24.43	34.77	-10.3378
				25	0	24.43	22.29	24.44	34.77	-10.3278
	23205	779.5	64QAM	1	0	23.64	21.50	23.65	34.77	-11.1178
				1	24	23.77	21.63	23.78	34.77	-10.9878
				12	6	24.25	22.11	24.26	34.77	-10.5078
				25	0	23.88	21.74	23.89	34.77	-10.8778
	23230	782	64QAM	1	0	23.59	21.45	23.60	34.77	-11.1678
				1	24	24.12	21.98	24.13	34.77	-10.6378
				12	6	24.40	22.26	24.41	34.77	-10.3578
				25	0	24.04	21.90	24.05	34.77	-10.7178
	23255	784.5	64QAM	1	0	23.72	21.58	23.73	34.77	-11.0378
				1	24	24.09	21.95	24.10	34.77	-10.6678
				12	6	24.37	22.23	24.38	34.77	-10.3878
				25	0	24.22	22.08	24.23	34.77	-10.5378

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	24.15	22.01	24.16	34.77	-10.6078
				1	49	24.44	22.30	24.45	34.77	-10.3178
				25	12	24.34	22.20	24.35	34.77	-10.4178
				50	0	24.02	21.88	24.03	34.77	-10.7378
	23230	782	16QAM	1	0	23.73	21.59	23.74	34.77	-11.0278
				1	49	23.92	21.78	23.93	34.77	-10.8378
				25	12	23.99	21.85	24.00	34.77	-10.7678
				50	0	23.94	21.80	23.95	34.77	-10.8178
	23230	782	64QAM	1	0	23.83	21.69	23.84	34.77	-10.9278
				1	49	23.58	21.44	23.59	34.77	-11.1778
				25	12	24.11	21.97	24.12	34.77	-10.6478
				50	0	24.04	21.90	24.05	34.77	-10.7178

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Antenna gain (dBi) 3.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.68	26.95	30	-3.04948
				1	5	23.74	27.01	30	-2.98948
				3	2	23.76	27.03	30	-2.96948
				6	0	22.67	25.94	30	-4.05948
	132322	1745	QPSK	1	0	24.49	27.76	30	-2.23948
				1	5	24.42	27.69	30	-2.30948
				3	2	24.51	27.78	30	-2.21948
				6	0	24.26	27.53	30	-2.46948
	132665	1779.3	QPSK	1	0	24.55	27.82	30	-2.17948
				1	5	24.43	27.70	30	-2.29948
				3	2	24.42	27.69	30	-2.30948
				6	0	24.46	27.73	30	-2.26948
	131979	1710.7	16QAM	1	0	22.96	26.23	30	-3.76948
				1	5	23.01	26.28	30	-3.71948
				3	2	22.79	26.06	30	-3.93948
				6	0	21.68	24.95	30	-5.04948
	132322	1745	16QAM	1	0	24.22	27.49	30	-2.50948
				1	5	23.95	27.22	30	-2.77948
				3	2	24.26	27.53	30	-2.46948
				6	0	23.29	26.56	30	-3.43948
	132665	1779.3	16QAM	1	0	23.93	27.20	30	-2.79948
				1	5	23.93	27.20	30	-2.79948
				3	2	24.10	27.37	30	-2.62948
				6	0	23.28	26.55	30	-3.44948
	131979	1710.7	64QAM	1	0	21.85	25.12	30	-4.87948
				1	5	21.95	25.22	30	-4.77948
				3	2	21.78	25.05	30	-4.94948
				6	0	20.71	23.98	30	-6.01948
	132322	1745	64QAM	1	0	22.71	25.98	30	-4.01948
				1	5	22.62	25.89	30	-4.10948
				3	2	23.22	26.49	30	-3.50948
				6	0	22.33	25.60	30	-4.39948
	132665	1779.3	64QAM	1	0	22.93	26.20	30	-3.79948
				1	5	23.04	26.31	30	-3.68948
				3	2	23.38	26.65	30	-3.34948
				6	0	22.45	25.72	30	-4.27948

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.64	26.91	30	-3.08948
				1	14	23.78	27.05	30	-2.94948
				8	4	22.76	26.03	30	-3.96948
				15	0	22.68	25.95	30	-4.04948
	132322	1745	QPSK	1	0	24.57	27.84	30	-2.15948
				1	14	24.49	27.76	30	-2.23948
				8	4	24.19	27.46	30	-2.53948
				15	0	24.18	27.45	30	-2.54948
	132657	1778.5	QPSK	1	0	24.61	27.88	30	-2.11948
				1	14	24.45	27.72	30	-2.27948
				8	4	24.47	27.74	30	-2.25948
				15	0	24.56	27.83	30	-2.16948
	131987	1711.5	16QAM	1	0	22.82	26.09	30	-3.90948
				1	14	23.10	26.37	30	-3.62948
				8	4	21.89	25.16	30	-4.83948
				15	0	21.83	25.10	30	-4.89948
	132322	1745	16QAM	1	0	24.00	27.27	30	-2.72948
				1	14	24.00	27.27	30	-2.72948
				8	4	23.34	26.61	30	-3.38948
				15	0	23.28	26.55	30	-3.44948
	132657	1778.5	16QAM	1	0	24.03	27.30	30	-2.69948
				1	14	23.98	27.25	30	-2.74948
				8	4	23.14	26.41	30	-3.58948
				15	0	23.32	26.59	30	-3.40948
	131987	1711.5	64QAM	1	0	21.78	25.05	30	-4.94948
				1	14	21.82	25.09	30	-4.90948
				8	4	20.71	23.98	30	-6.01948
				15	0	20.72	23.99	30	-6.00948
	132322	1745	64QAM	1	0	22.91	26.18	30	-3.81948
				1	14	22.43	25.70	30	-4.29948
				8	4	22.35	25.62	30	-4.37948
				15	0	22.35	25.62	30	-4.37948
	132657	1778.5	64QAM	1	0	23.07	26.34	30	-3.65948
				1	14	22.94	26.21	30	-3.78948
				8	4	22.62	25.89	30	-4.10948
				15	0	22.64	25.91	30	-4.08948

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.55	26.82	30	-3.17948
				1	24	23.99	27.26	30	-2.73948
				12	6	22.90	26.17	30	-3.82948
				25	0	22.77	26.04	30	-3.95948
	132322	1745	QPSK	1	0	24.58	27.85	30	-2.14948
				1	24	24.44	27.71	30	-2.28948
				12	6	24.33	27.60	30	-2.39948
				25	0	24.12	27.39	30	-2.60948
	132647	1777.5	QPSK	1	0	24.43	27.70	30	-2.29948
				1	24	24.21	27.48	30	-2.51948
				12	6	23.97	27.24	30	-2.75948
				25	0	24.04	27.31	30	-2.68948
	131997	1712.5	16QAM	1	0	22.85	26.12	30	-3.87948
				1	24	23.25	26.52	30	-3.47948
				12	6	21.92	25.19	30	-4.80948
				25	0	21.86	25.13	30	-4.86948
	132322	1745	16QAM	1	0	24.12	27.39	30	-2.60948
				1	24	24.00	27.27	30	-2.72948
				12	6	23.32	26.59	30	-3.40948
				25	0	23.22	26.49	30	-3.50948
	132647	1777.5	16QAM	1	0	23.90	27.17	30	-2.82948
				1	24	24.03	27.30	30	-2.69948
				12	6	23.67	26.94	30	-3.05948
				25	0	23.42	26.69	30	-3.30948
	131997	1712.5	64QAM	1	0	21.82	25.09	30	-4.90948
				1	24	22.08	25.35	30	-4.64948
				12	6	21.00	24.27	30	-5.72948
				25	0	20.90	24.17	30	-5.82948
	132322	1745	64QAM	1	0	22.68	25.95	30	-4.04948
				1	24	22.72	25.99	30	-4.00948
				12	6	22.44	25.71	30	-4.28948
				25	0	22.27	25.54	30	-4.45948
	132647	1777.5	64QAM	1	0	22.91	26.18	30	-3.81948
				1	24	23.27	26.54	30	-3.45948
				12	6	22.81	26.08	30	-3.91948
				25	0	22.70	25.97	30	-4.02948

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.62	26.89	30	-3.10948
				1	49	24.43	27.70	30	-2.29948
				25	12	23.19	26.46	30	-3.53948
				50	0	23.03	26.30	30	-3.69948
	132322	1745	QPSK	1	0	24.62	27.89	30	-2.10948
				1	49	24.48	27.75	30	-2.24948
				25	12	24.23	27.50	30	-2.49948
				50	0	24.01	27.28	30	-2.71948
	132622	1775	QPSK	1	0	24.43	27.70	30	-2.29948
				1	49	24.33	27.60	30	-2.39948
				25	12	24.06	27.33	30	-2.66948
				50	0	23.71	26.98	30	-3.01948
	132022	1715	16QAM	1	0	22.81	26.08	30	-3.91948
				1	49	23.86	27.13	30	-2.86948
				25	12	22.22	25.49	30	-4.50948
				50	0	22.07	25.34	30	-4.65948
	132322	1745	16QAM	1	0	24.19	27.46	30	-2.53948
				1	49	23.87	27.14	30	-2.85948
				25	12	23.08	26.35	30	-3.64948
				50	0	23.12	26.39	30	-3.60948
	132622	1775	16QAM	1	0	24.09	27.36	30	-2.63948
				1	49	23.76	27.03	30	-2.96948
				25	12	23.54	26.81	30	-3.18948
				50	0	23.83	27.10	30	-2.89948
	132022	1715	64QAM	1	0	21.68	24.95	30	-5.04948
				1	49	22.40	25.67	30	-4.32948
				25	12	21.15	24.42	30	-5.57948
				50	0	21.10	24.37	30	-5.62948
	132322	1745	64QAM	1	0	23.06	26.33	30	-3.66948
				1	49	22.71	25.98	30	-4.01948
				25	12	22.30	25.57	30	-4.42948
				50	0	22.19	25.46	30	-4.53948
	132622	1775	64QAM	1	0	23.31	26.58	30	-3.41948
				1	49	22.79	26.06	30	-3.93948
				25	12	22.57	25.84	30	-4.15948
				50	0	22.84	26.11	30	-3.88948

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15	132047	1717.5	QPSK	1	0	23.71	26.98	30	-3.01948
				1	74	24.48	27.75	30	-2.24948
				36	18	23.46	26.73	30	-3.26948
				75	0	23.29	26.56	30	-3.43948
	132322	1745	QPSK	1	0	24.55	27.82	30	-2.17948
				1	74	24.36	27.63	30	-2.36948
				36	18	24.26	27.53	30	-2.46948
				75	0	24.07	27.34	30	-2.65948
	132597	1772.5	QPSK	1	0	24.43	27.70	30	-2.29948
				1	74	24.06	27.33	30	-2.66948
				36	18	23.79	27.06	30	-2.93948
				75	0	23.78	27.05	30	-2.94948
	132047	1717.5	16QAM	1	0	23.05	26.32	30	-3.67948
				1	74	23.83	27.10	30	-2.89948
				36	18	22.49	25.76	30	-4.23948
				75	0	22.38	25.65	30	-4.34948
	132322	1745	16QAM	1	0	24.01	27.28	30	-2.71948
				1	74	23.74	27.01	30	-2.98948
				36	18	23.29	26.56	30	-3.43948
				75	0	23.13	26.40	30	-3.59948
	132597	1772.5	16QAM	1	0	24.01	27.28	30	-2.71948
				1	74	23.95	27.22	30	-2.77948
				36	18	23.75	27.02	30	-2.97948
				75	0	23.55	26.82	30	-3.17948
	132047	1717.5	64QAM	1	0	21.96	25.23	30	-4.76948
				1	74	22.62	25.89	30	-4.10948
				36	18	21.45	24.72	30	-5.27948
				75	0	21.30	24.57	30	-5.42948
	132322	1745	64QAM	1	0	23.15	26.42	30	-3.57948
				1	74	22.48	25.75	30	-4.24948
				36	18	22.31	25.58	30	-4.41948
				75	0	22.20	25.47	30	-4.52948
	132597	1772.5	64QAM	1	0	23.10	26.37	30	-3.62948
				1	74	22.82	26.09	30	-3.90948
				36	18	22.89	26.16	30	-3.83948
				75	0	22.45	25.72	30	-4.27948

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20	132072	1720	QPSK	1	0	23.77	27.04	30	-2.95948
				1	99	24.18	27.45	30	-2.54948
				50	25	23.67	26.94	30	-3.05948
				100	0	23.47	26.74	30	-3.25948
	132322	1745	QPSK	1	0	24.56	27.83	30	-2.16948
				1	99	24.38	27.65	30	-2.34948
				50	25	24.18	27.45	30	-2.54948
				100	0	24.01	27.28	30	-2.71948
	132572	1770	QPSK	1	0	24.55	27.82	30	-2.17948
				1	99	24.43	27.70	30	-2.29948
				50	25	23.77	27.04	30	-2.95948
				100	0	24.32	27.59	30	-2.40948
	132072	1720	16QAM	1	0	23.12	26.39	30	-3.60948
				1	99	23.89	27.16	30	-2.83948
				50	25	22.81	26.08	30	-3.91948
				100	0	22.59	25.86	30	-4.13948
	132322	1745	16QAM	1	0	23.98	27.25	30	-2.74948
				1	99	23.61	26.88	30	-3.11948
				50	25	23.17	26.44	30	-3.55948
				100	0	23.04	26.31	30	-3.68948
	132572	1770	16QAM	1	0	23.92	27.19	30	-2.80948
				1	99	23.73	27.00	30	-2.99948
				50	25	23.63	26.90	30	-3.09948
				100	0	23.33	26.60	30	-3.39948
	132072	1720	64QAM	1	0	21.90	25.17	30	-4.82948
				1	99	23.04	26.31	30	-3.68948
				50	25	21.82	25.09	30	-4.90948
				100	0	21.55	24.82	30	-5.17948
	132322	1745	64QAM	1	0	23.12	26.39	30	-3.60948
				1	99	22.43	25.70	30	-4.29948
				50	25	22.33	25.60	30	-4.39948
				100	0	22.11	25.38	30	-4.61948
	132572	1770	64QAM	1	0	22.61	25.88	30	-4.11948
				1	99	22.95	26.22	30	-3.77948
				50	25	22.38	25.65	30	-4.34948
				100	0	22.46	25.73	30	-4.26948

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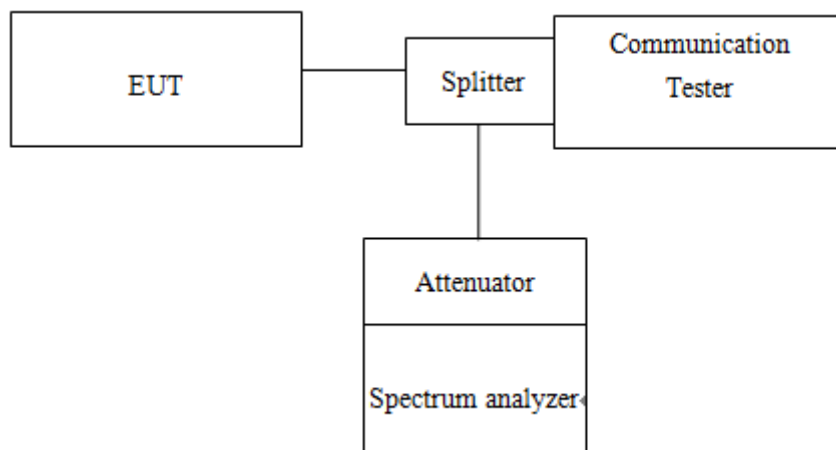
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2 Test Set-up



7.3 Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

7.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF207	11/20/2019	11/19/2020

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7.5 Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0936	1.0946	1.0930	1.239	1.241	1.236
1880.0	18900	1.0921	1.0922	1.0936	1.235	1.239	1.241
1909.3	19193	1.0938	1.0946	1.0931	1.241	1.239	1.236

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.6969	2.6989	2.6986	2.984	3.003	2.985
1880.0	18900	2.6973	2.6984	2.6995	3.005	3.003	3.001
1908.5	19185	2.6951	2.6948	2.6981	3.021	3.005	2.990

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.4969	4.4903	4.5117	5.021	4.970	4.963
1880.0	18900	4.4933	4.4916	4.4994	5.007	4.970	4.949
1907.5	19175	4.4874	4.4866	4.4921	5.008	4.984	4.968

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	9.0153	8.9576	8.9896	9.763	9.767	9.787
1880.0	18900	8.9565	8.9551	8.9685	9.835	9.737	9.807
1905.0	19150	8.9867	8.9402	8.9747	9.832	9.758	9.765

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.486	13.474	13.469	14.737	14.721	14.669
1880.0	18900	13.439	13.451	13.426	14.688	14.675	14.679
1902.5	19125	13.443	13.457	13.436	14.687	14.747	14.612

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	17.929	17.960	17.938	19.434	19.418	19.603
1880.0	18900	17.861	17.902	17.885	19.488	19.382	19.445
1900.0	19100	17.958	17.963	17.967	19.553	19.487	19.639

LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.0914	1.0955	1.0922	1.241	1.243	1.238
1732.5	20175	1.0929	1.0944	1.0943	1.237	1.232	1.242
1754.3	20393	1.0922	1.0931	1.0926	1.239	1.239	1.232

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.6962	2.6978	2.7014	2.990	2.999	2.986
1732.5	20175	2.6967	2.6960	2.7015	2.996	3.016	2.989
1753.5	20385	2.6959	2.6974	2.6943	2.995	3.013	2.999

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.4994	4.4946	4.5047	4.956	4.982	4.964
1732.5	20175	4.4860	4.4940	4.5123	4.997	4.938	4.934
1752.5	20375	4.4991	4.4999	4.5063	5.003	4.983	4.958

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	9.0002	8.9619	8.9910	9.779	9.749	9.789
1732.5	20175	8.9995	8.9665	8.9920	9.826	9.783	9.786
1750.0	20350	9.0059	8.9570	8.9849	9.808	9.796	9.826

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.488	13.467	13.457	14.686	14.676	14.568
1732.5	20175	13.439	13.465	13.443	14.677	14.655	14.704
1747.5	20325	13.467	13.458	13.457	14.682	14.652	14.701

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.913	17.953	17.939	19.430	19.366	19.589
1732.5	20175	17.930	17.944	17.960	19.537	19.451	19.554
1745.0	20300	17.889	17.905	17.936	19.386	19.359	19.442

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LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0935	1.0943	1.0932	1.246	1.235	1.228
836.5	20525	1.0926	1.0928	1.0927	1.232	1.238	1.239
848.3	20643	1.0917	1.0941	1.0936	1.239	1.232	1.242

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.6955	2.6941	2.6993	3.000	3.012	2.995
836.5	20525	2.6970	2.6976	2.7001	2.995	3.012	2.968
847.5	20635	2.6963	2.6983	2.7000	2.989	3.000	2.968

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.4983	4.4927	4.5074	5.007	4.970	4.982
836.5	20525	4.5012	4.4945	4.4959	4.971	4.943	4.980
846.5	20625	4.4965	4.4916	4.4996	4.976	4.957	4.969

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	8.9963	8.9620	8.9709	9.816	9.743	9.809
836.5	20525	9.0130	8.9711	8.9933	9.791	9.767	9.817
844.0	20600	8.9820	8.9387	8.9767	9.755	9.789	9.818

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4961	4.5021	4.5095	4.985	4.974	4.963
782.0	23230	4.4889	4.4926	4.4986	4.964	4.951	4.927
784.5	23255	4.4981	4.4968	4.5081	4.997	4.978	4.940

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	8.9707	8.9512	8.9756	9.775	9.740	9.761

LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.0930	1.0939	1.0915	1.236	1.240	1.236
1745.0	132322	1.0923	1.0915	1.0938	1.236	1.232	1.243
1779.3	132665	1.0924	1.0947	1.0953	1.240	1.237	1.234

LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	131987	2.6956	2.6993	2.6988	3.000	3.009	2.984
1745.0	132322	2.6944	2.6960	2.6981	3.012	2.989	2.989
1778.5	132657	2.6972	2.6966	2.6971	3.007	3.018	2.977

LTE BAND 66 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	131997	4.4995	4.5038	4.5001	5.002	4.963	4.939
1745.0	132322	4.4982	4.4942	4.5005	4.981	4.975	4.967
1777.5	132647	4.4924	4.5024	4.5077	4.962	4.966	4.961

LTE BAND 66 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	132022	8.9927	8.9627	8.9500	9.806	9.788	9.785
1745.0	132322	8.9957	8.9477	8.9862	9.821	9.785	9.804
1775.0	132622	8.9982	8.9710	8.9842	9.823	9.761	9.818

LTE BAND 66 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	132047	13.4660	13.4610	13.4350	14.733	14.826	14.686
1745.0	132322	13.4640	13.4450	13.4190	14.672	14.796	14.619
1772.5	132597	13.4830	13.4700	13.4520	14.716	14.732	14.700

LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	132072	17.9260	17.9520	17.9490	19.375	19.501	19.572
1745.0	132322	17.9060	17.9380	17.9220	19.505	19.359	19.395
1770.0	132572	17.9390	17.9770	17.9640	19.515	19.554	19.552

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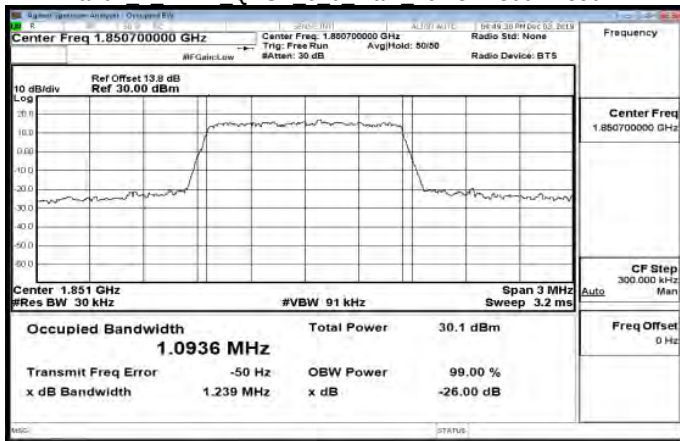
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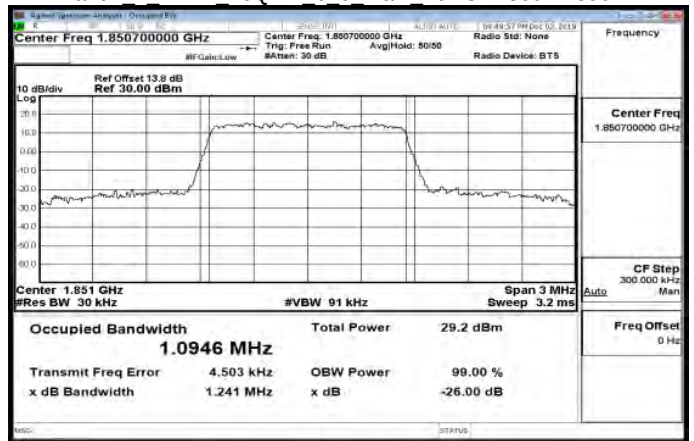
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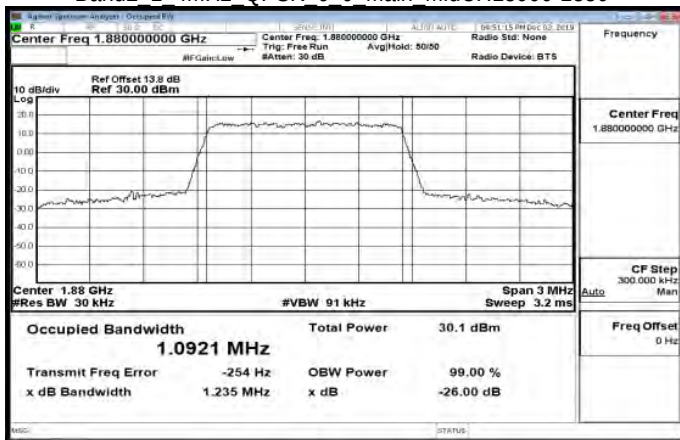
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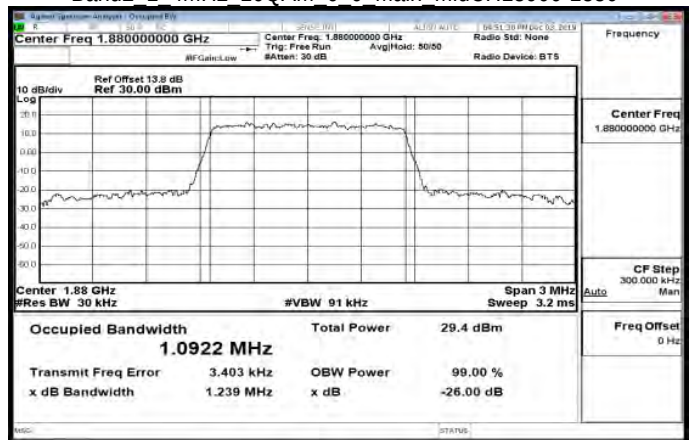
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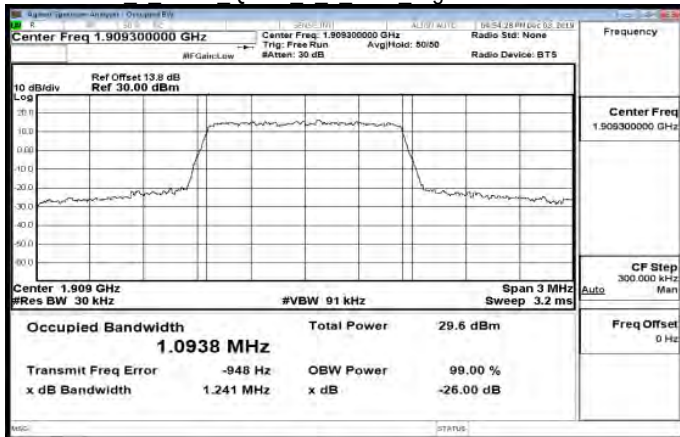
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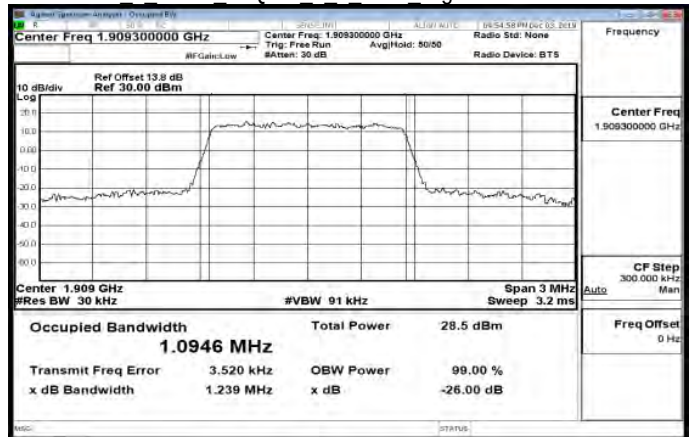
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Band2 1 4MHz QPSK 6 0 Main HighCH19193-1909.3



Band2 1 4MHz 16QAM 6 0 Main HighCH19193-1909.3



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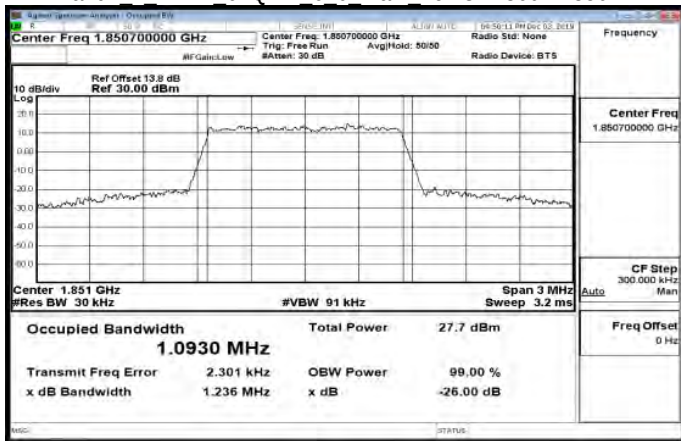
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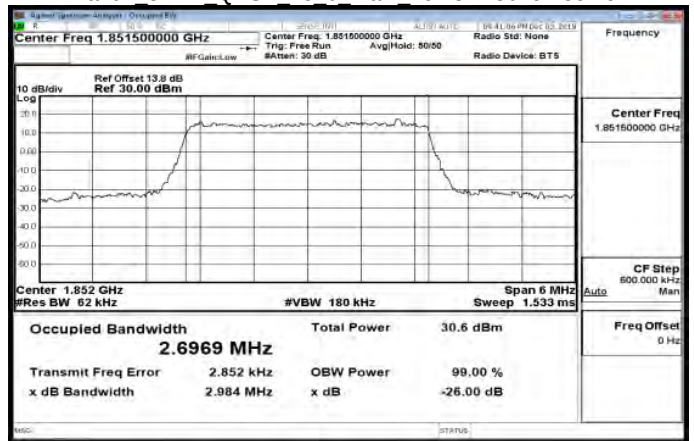
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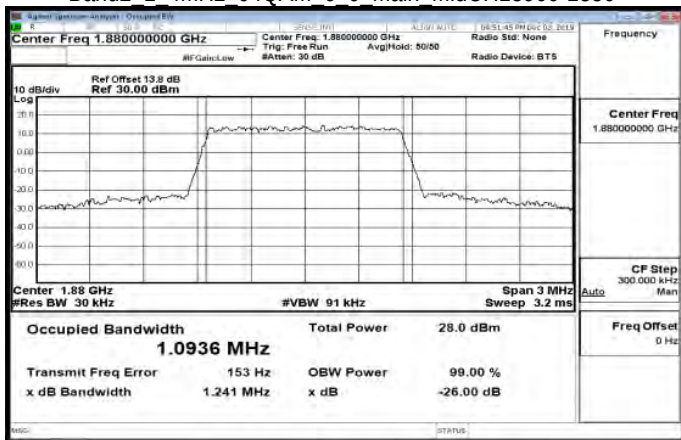
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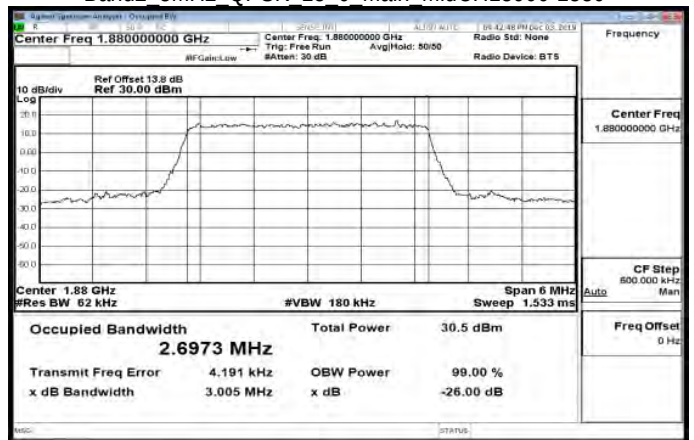
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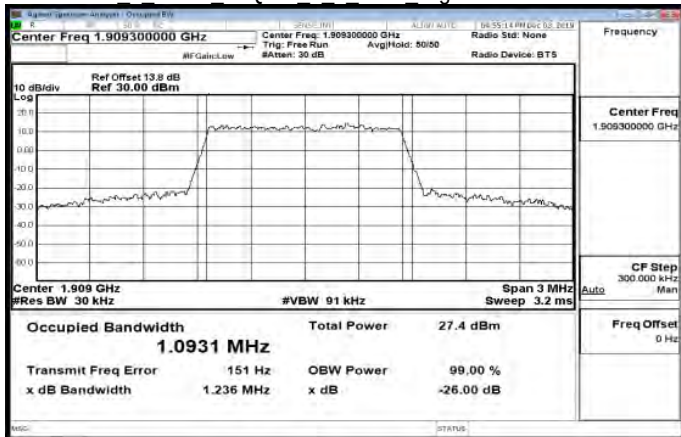
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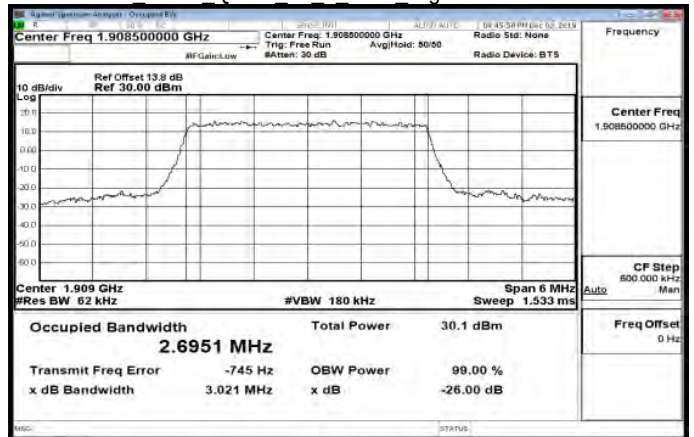
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Band2 3MHz QPSK 15 0 Main HighCH19185-1908.5



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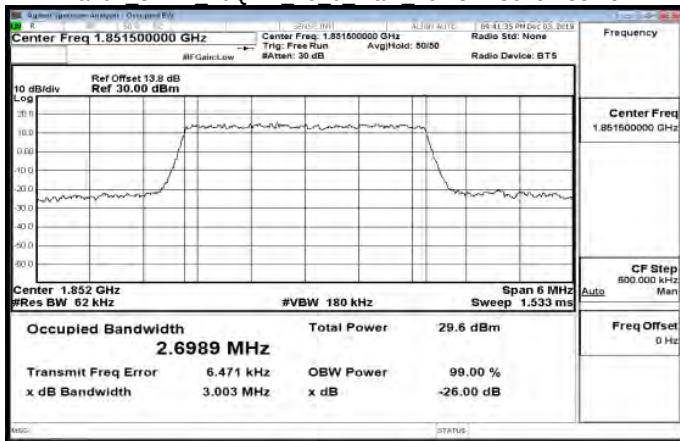
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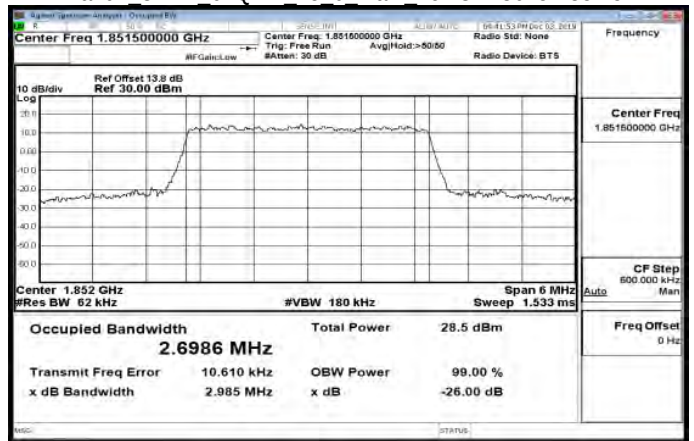
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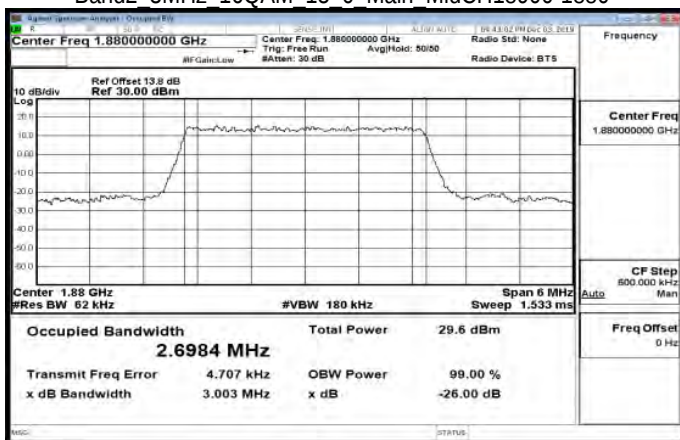
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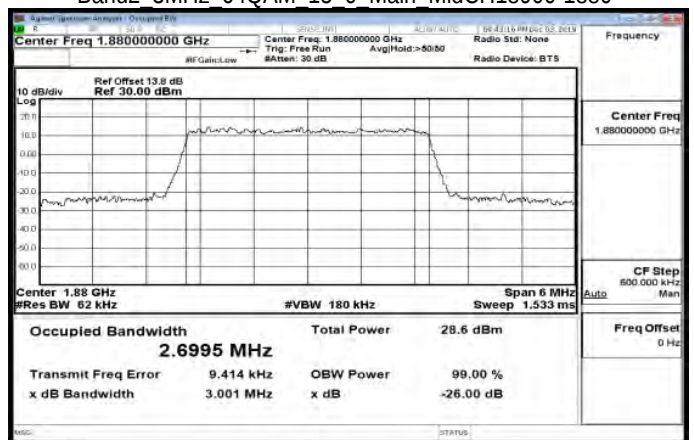
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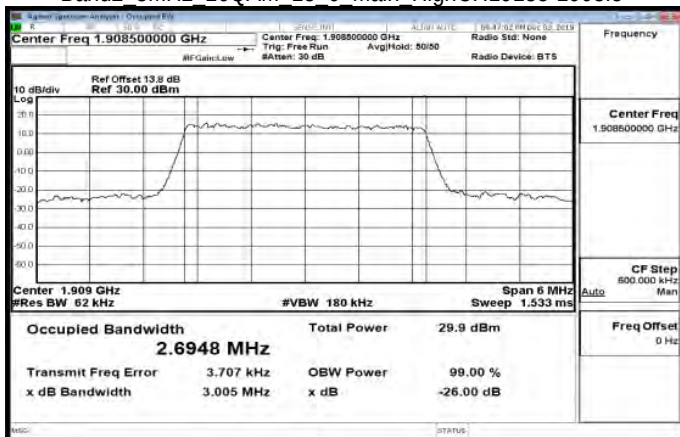
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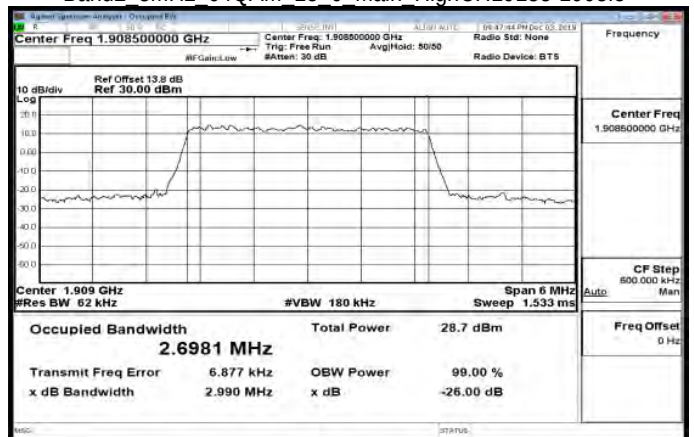
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Band2 3MHz 16QAM 15 0 Main HighCH19185-1908.5



Band2 3MHz 64QAM 15 0 Main HighCH19185-1908.5



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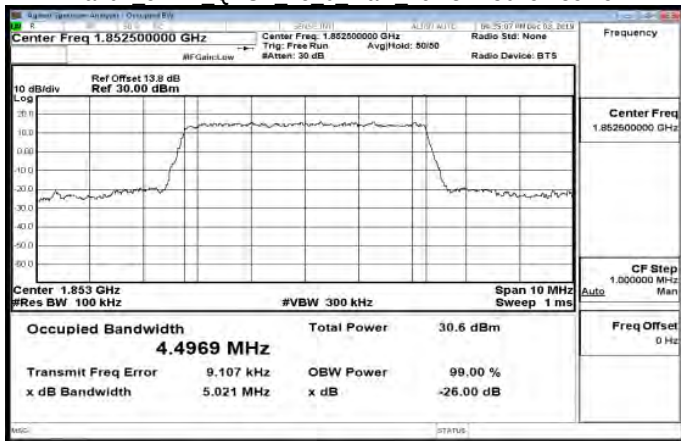
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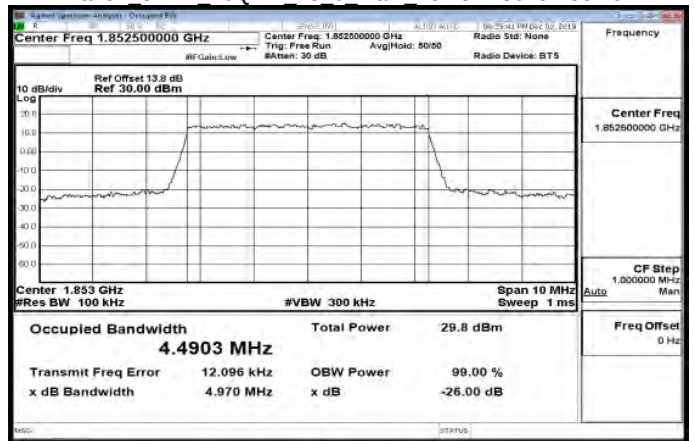
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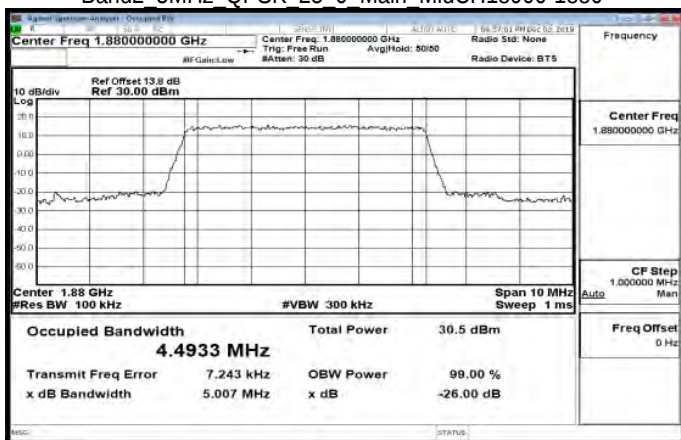
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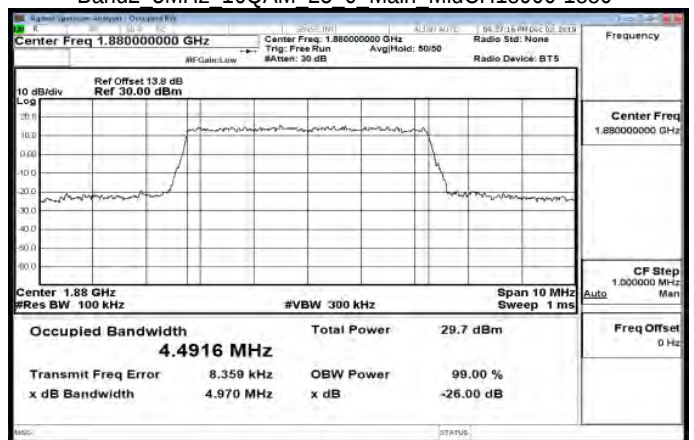
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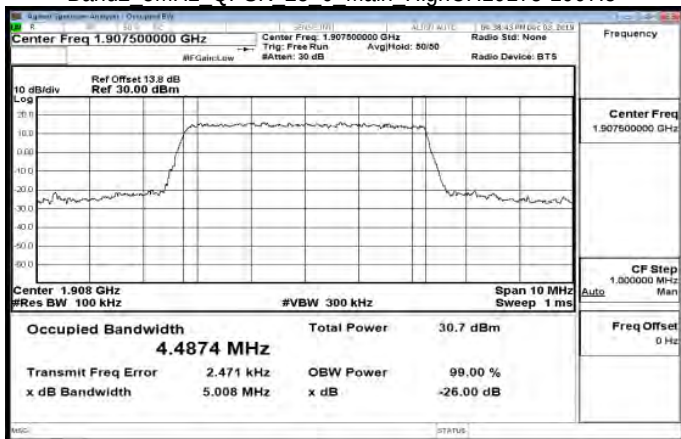
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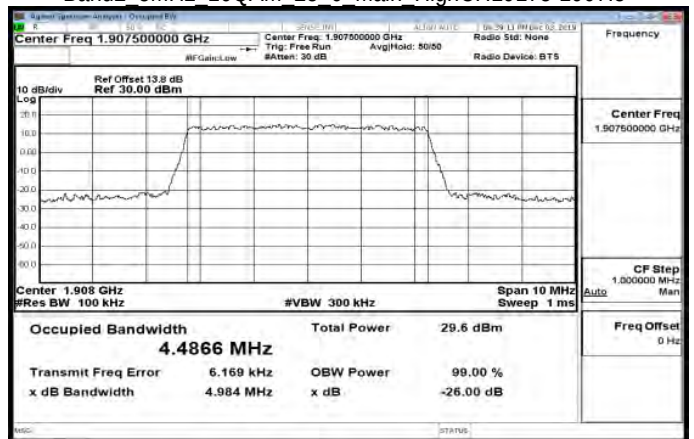
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Band2 5MHz QPSK 25 0 Main HighCH19175-1907.5



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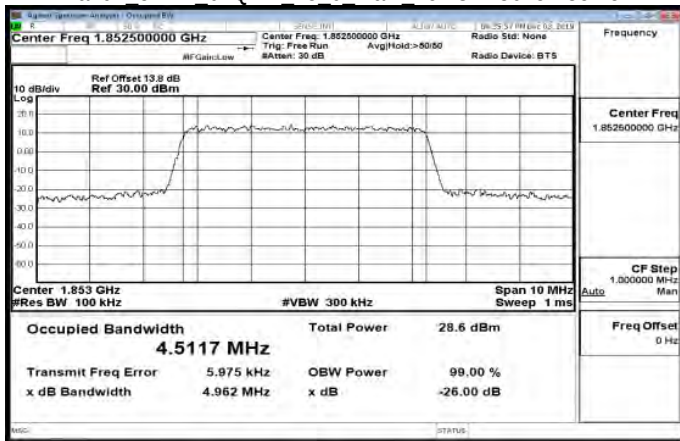
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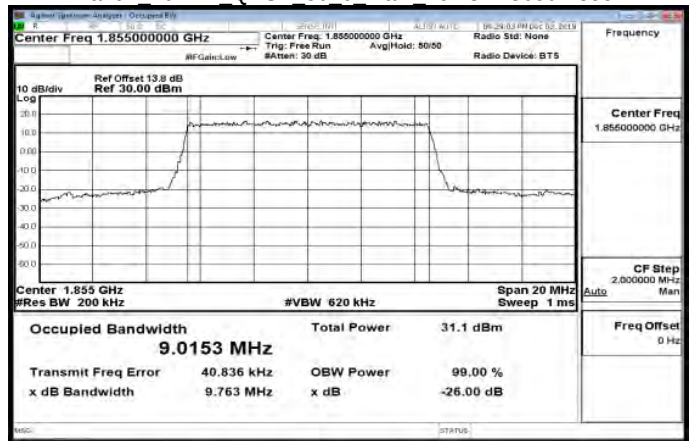
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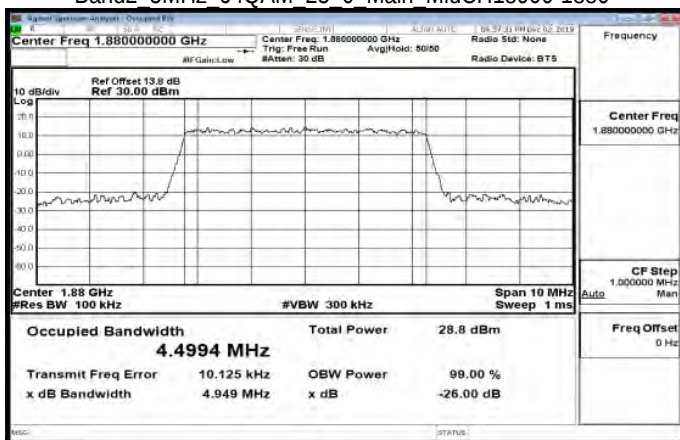
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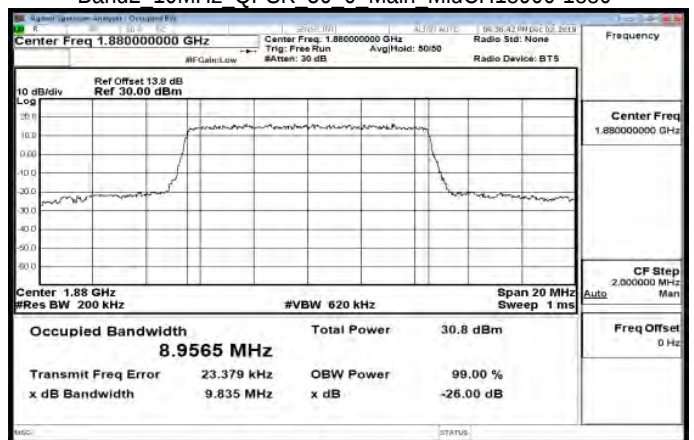
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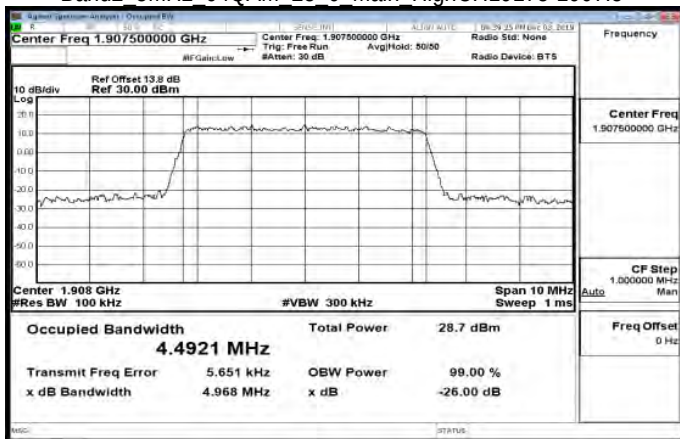
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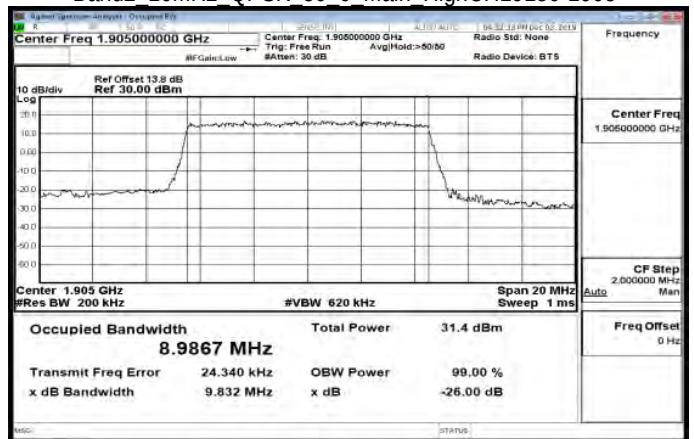
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Band2 5MHz 64QAM 25 0 Main HighCH19175-1907.5



Band2 10MHz QPSK 50 0 Main HighCH19150-1905



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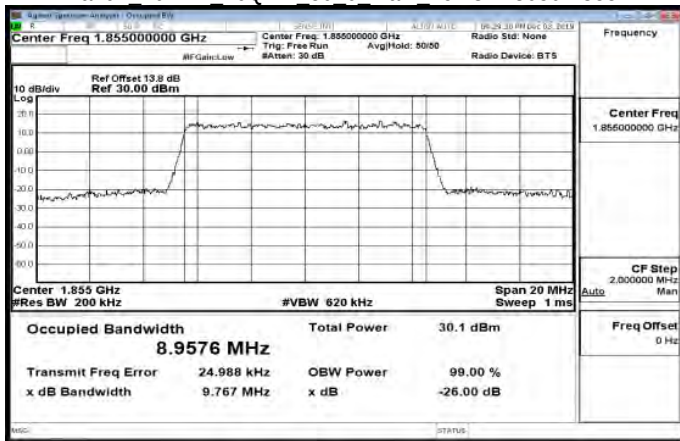
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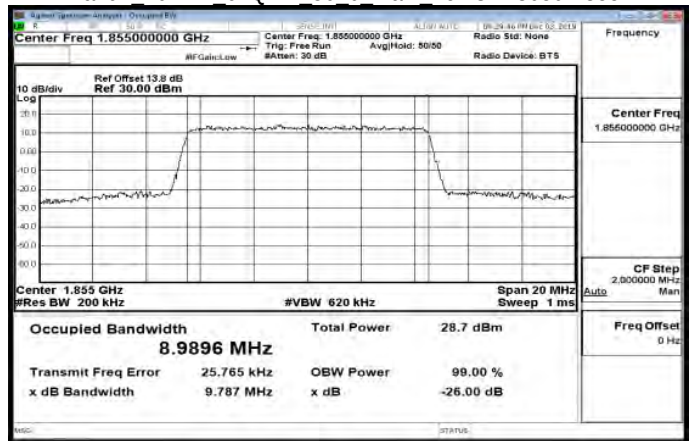
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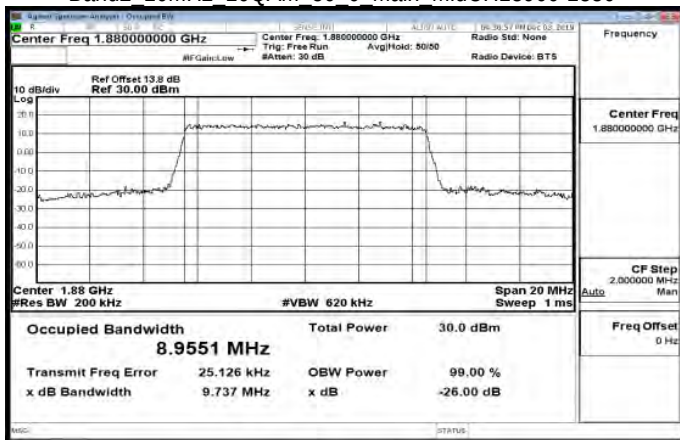
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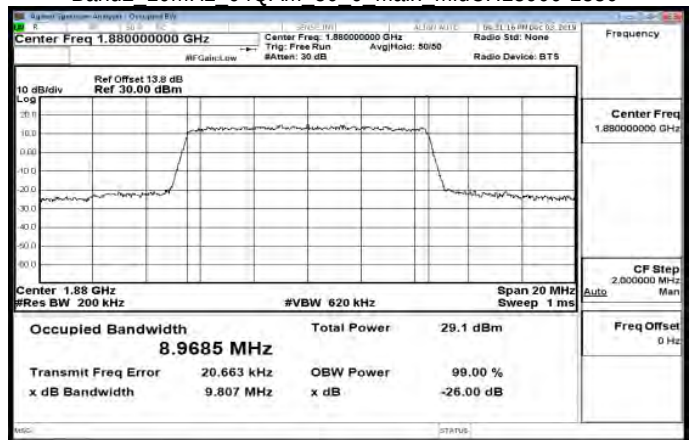
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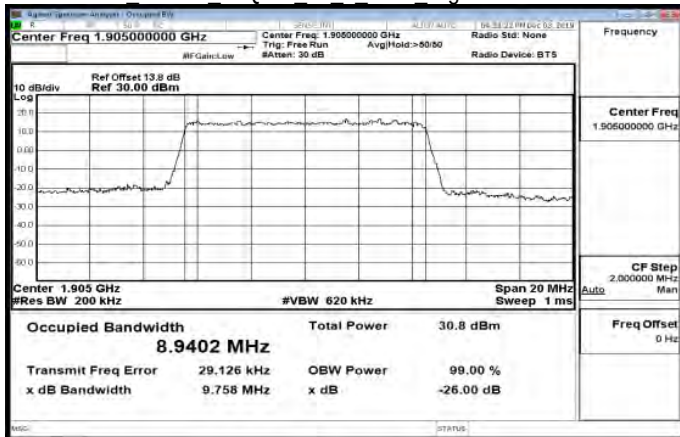
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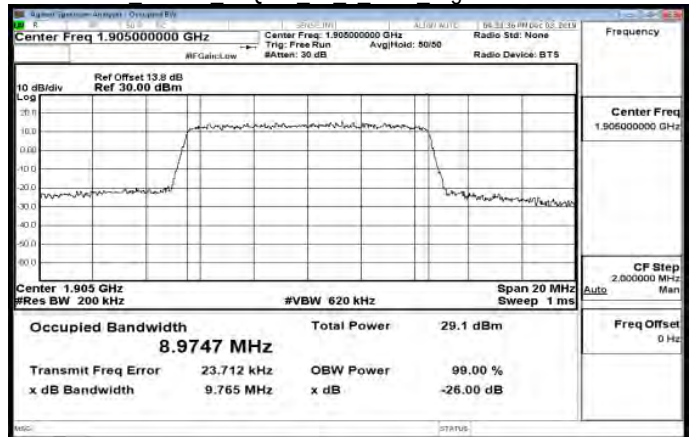
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Band2 10MHz 16QAM 50 0 Main HighCH19150-1905



Band2 10MHz 64QAM 50 0 Main HighCH19150-1905



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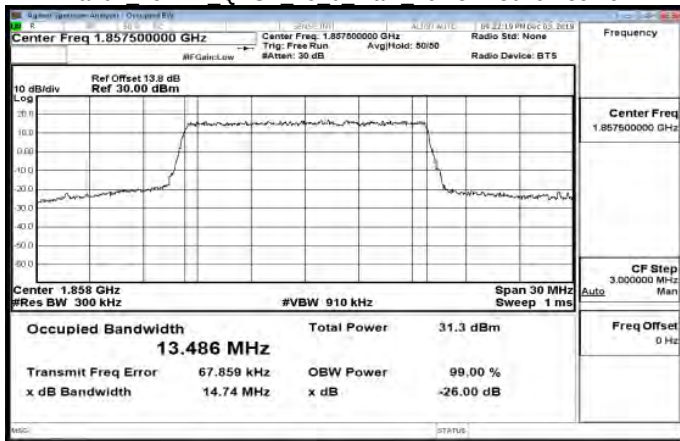
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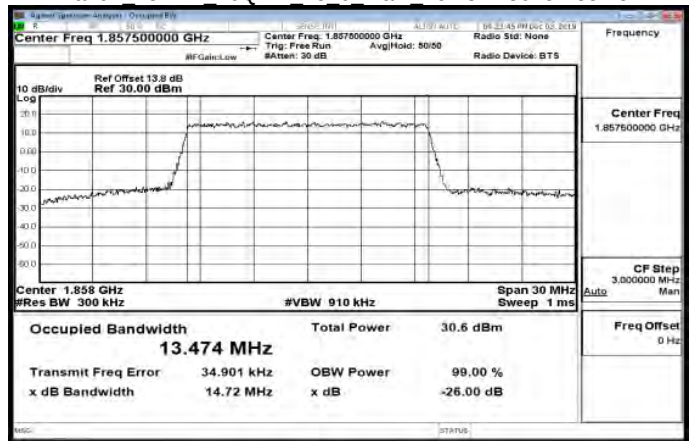
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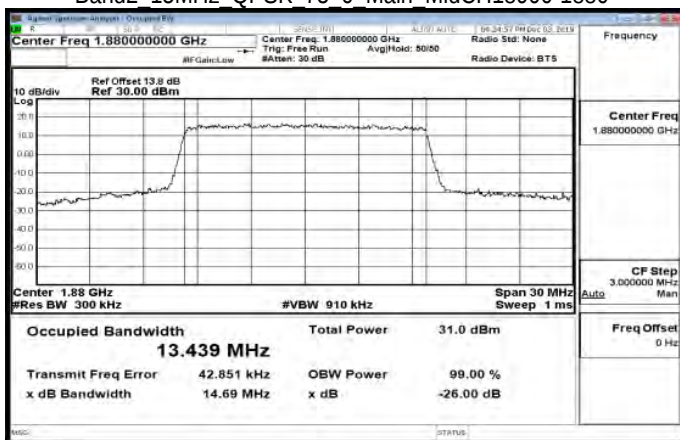
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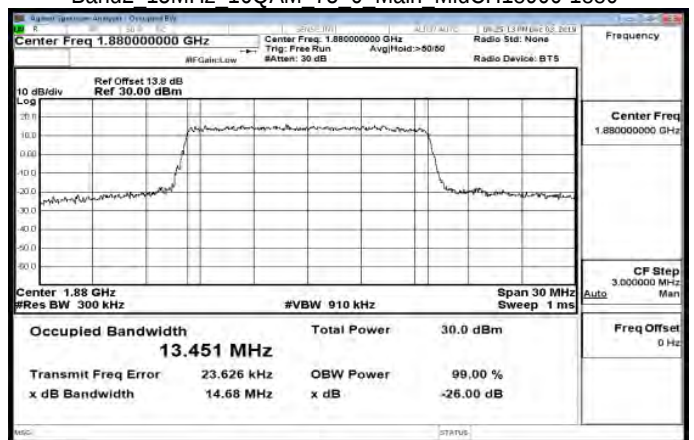
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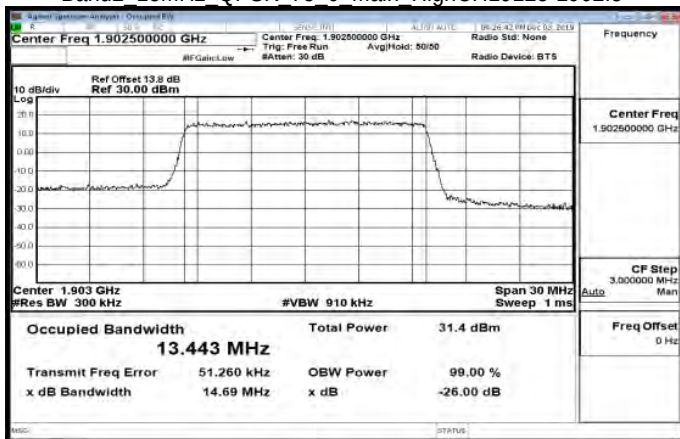
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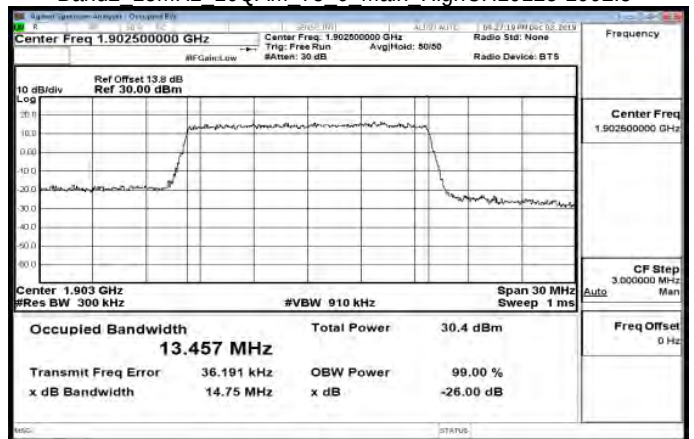
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Band2 15MHz QPSK 75 0 Main HighCH19125-1902.5



Band2 15MHz 16QAM 75 0 Main HighCH19125-1902.5



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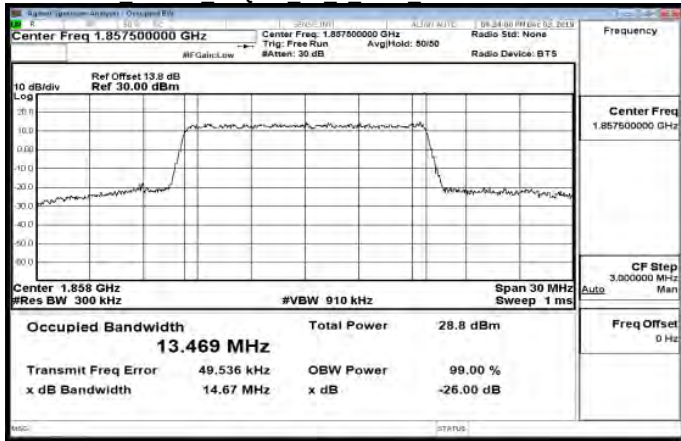
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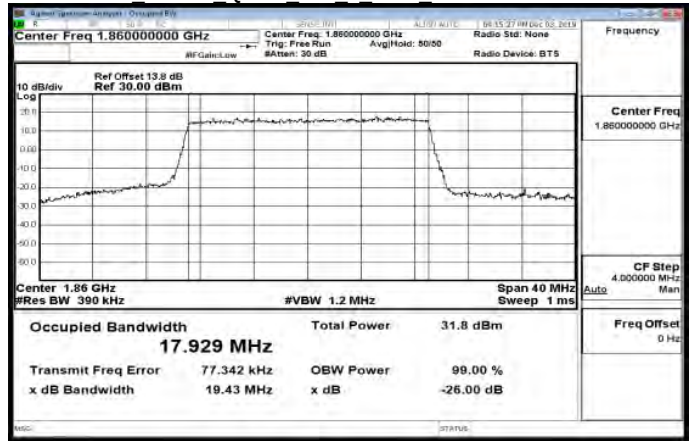
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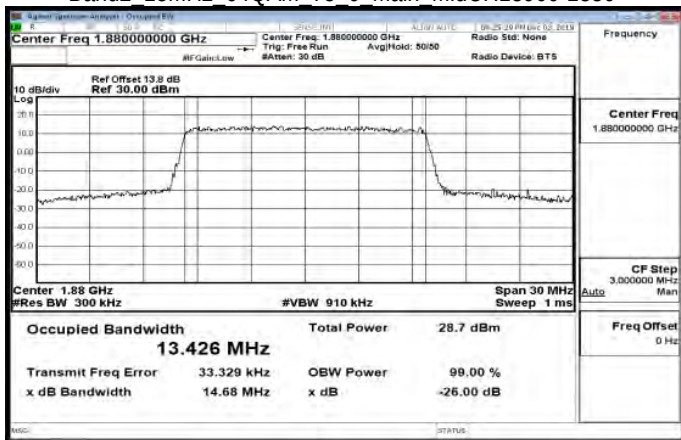
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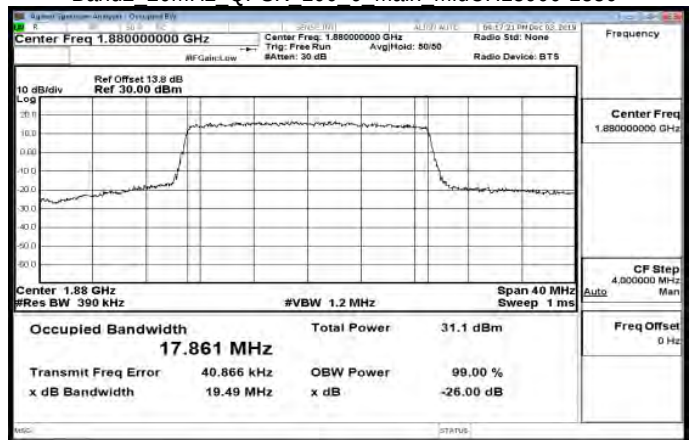
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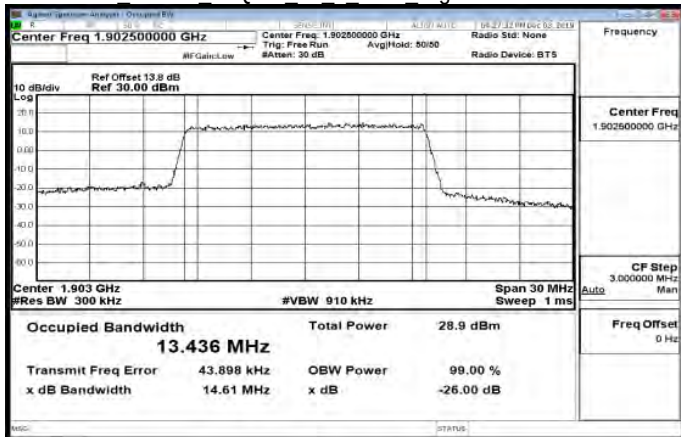
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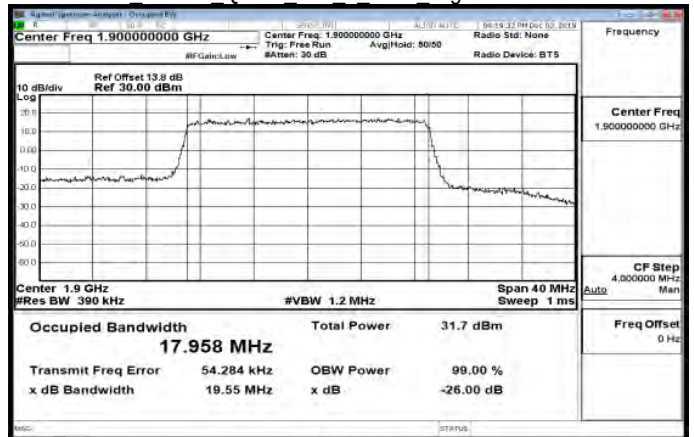
Band2 20MHz QPSK 100 0 Main MidCH18900-1880



Band2 15MHz 64QAM 75 0 Main HighCH19125-1902.5



Band2 20MHz QPSK 100 0 Main HighCH19100-1900



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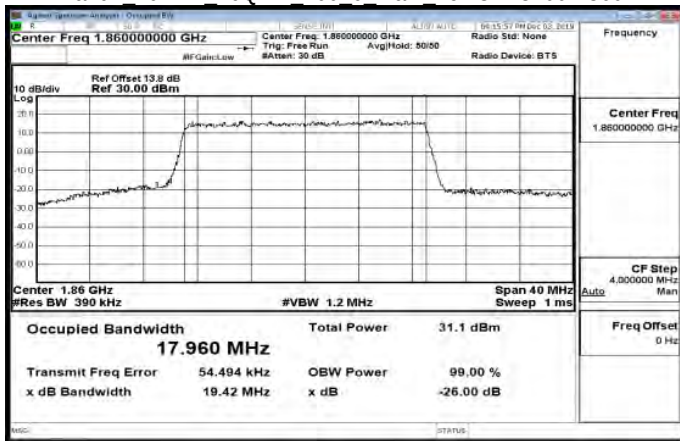
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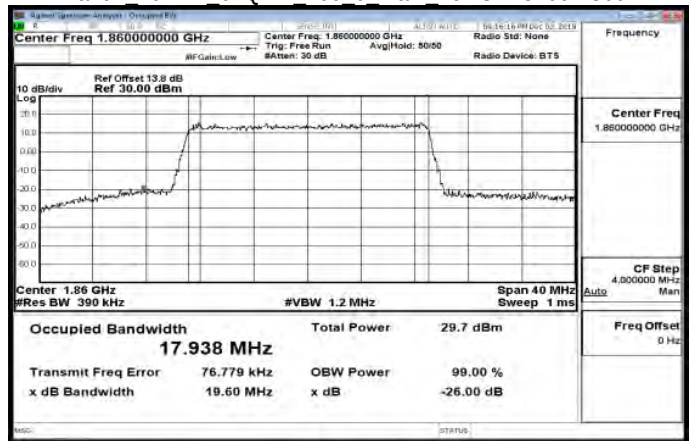
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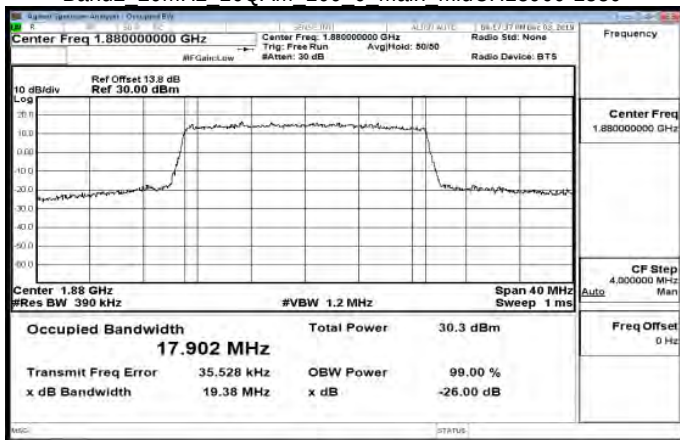
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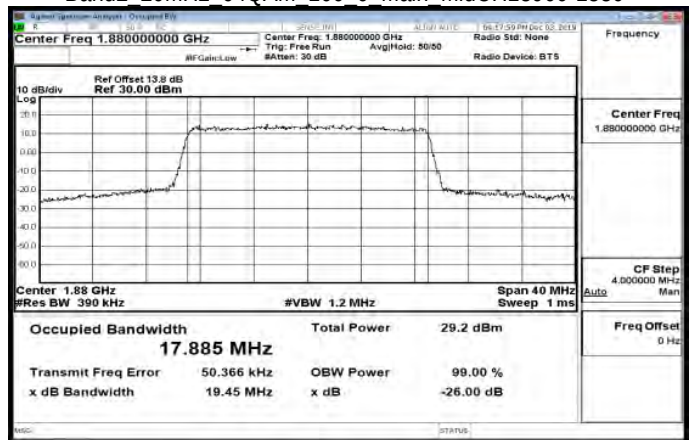
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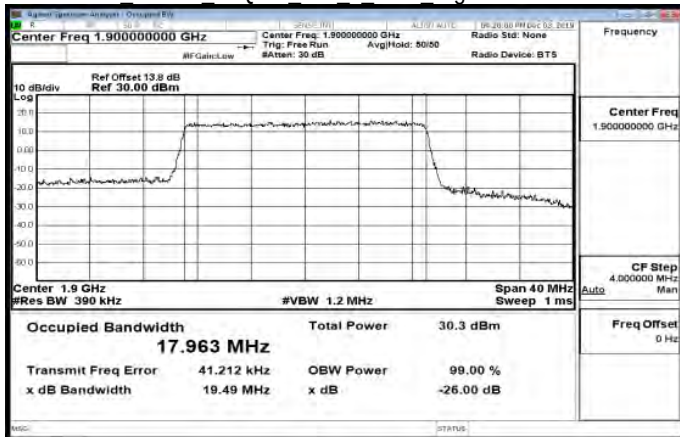
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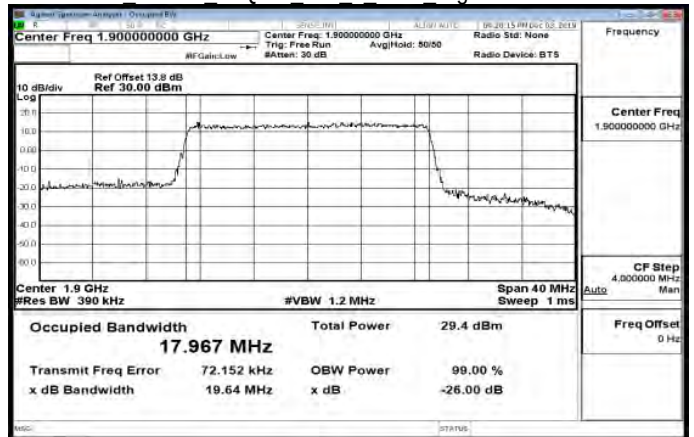
Band2 20MHz 64QAM 100 0 Main MidCH18900-1880



Band2 20MHz 16QAM 100 0 Main HighCH19100-1900



Band2 20MHz 64QAM 100 0 Main HighCH19100-1900



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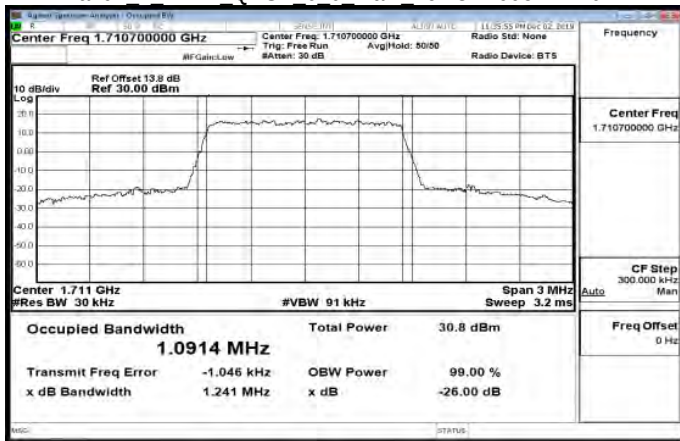
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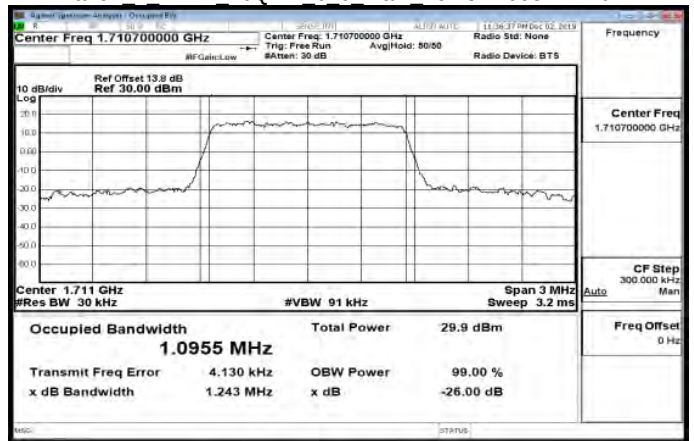
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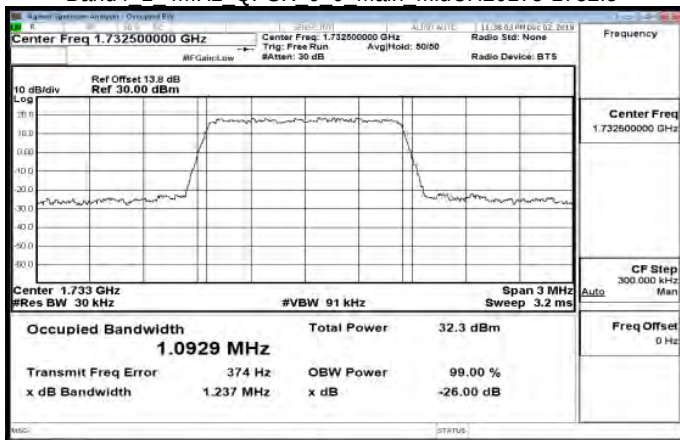
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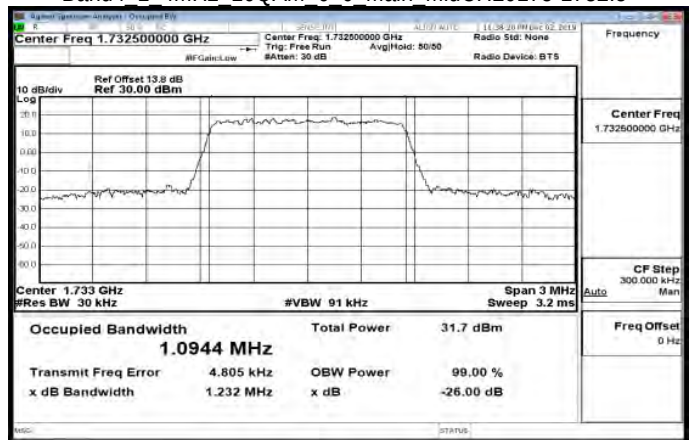
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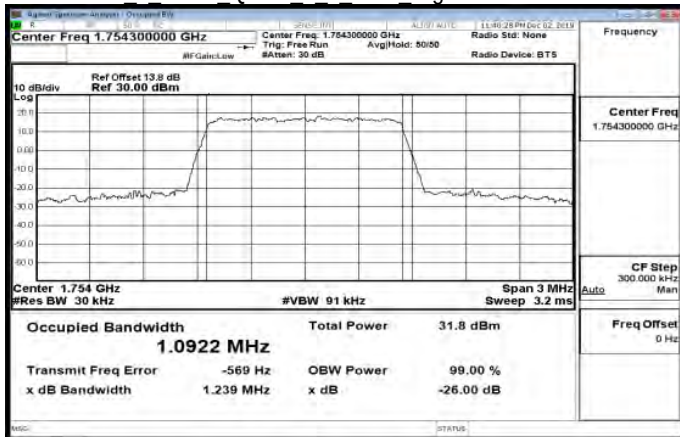
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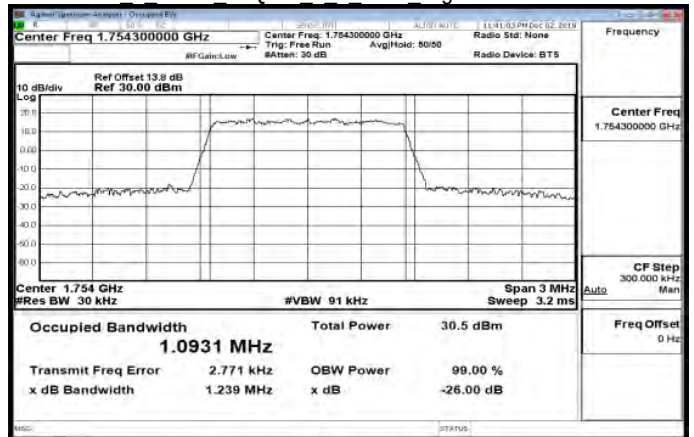
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Band4 1 4MHz QPSK 6 0 Main HighCH20393-1754.3



Band4 1 4MHz 16QAM 6 0 Main HighCH20393-1754.3



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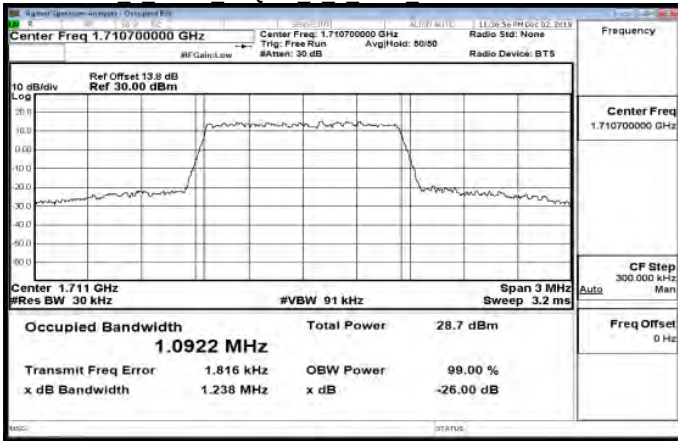
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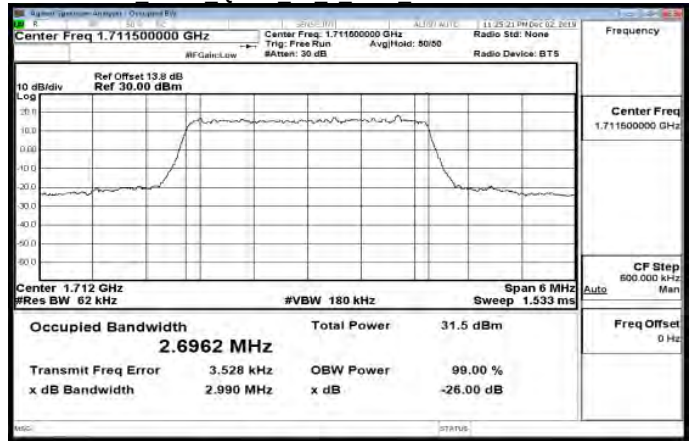
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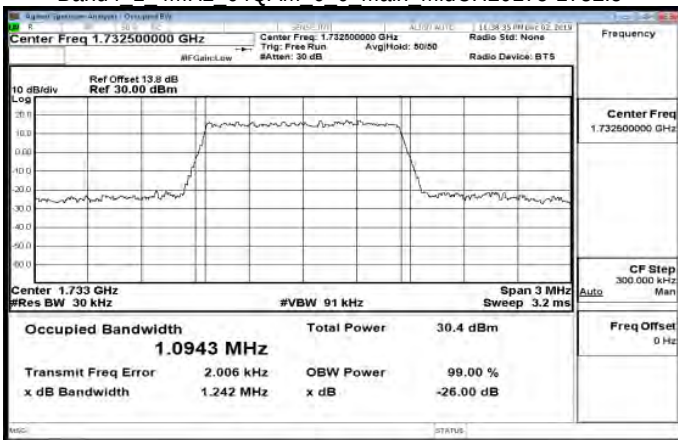
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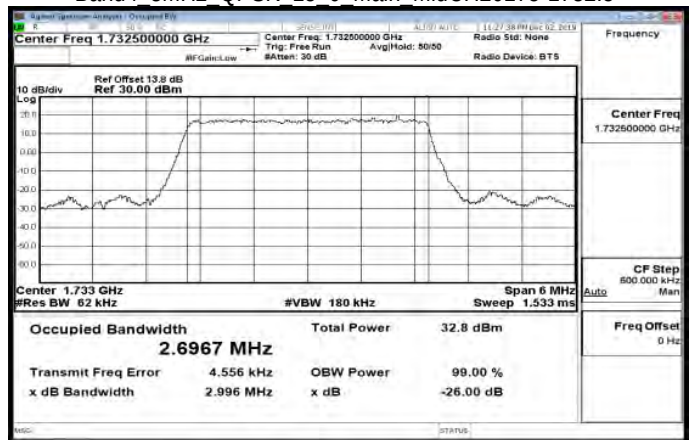
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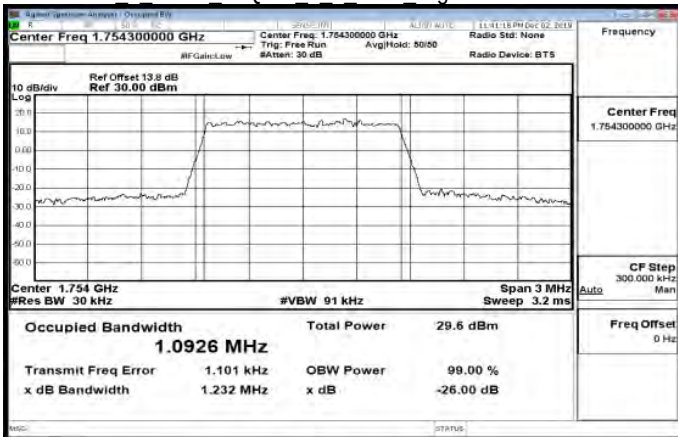
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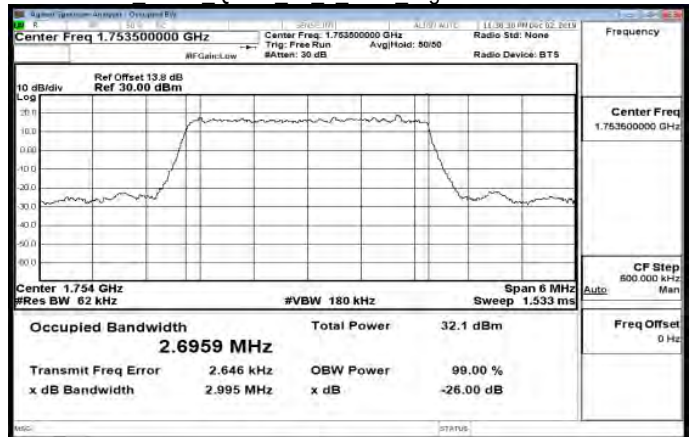
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Band4 3MHz QPSK 15 0 Main HighCH20385-1753.5



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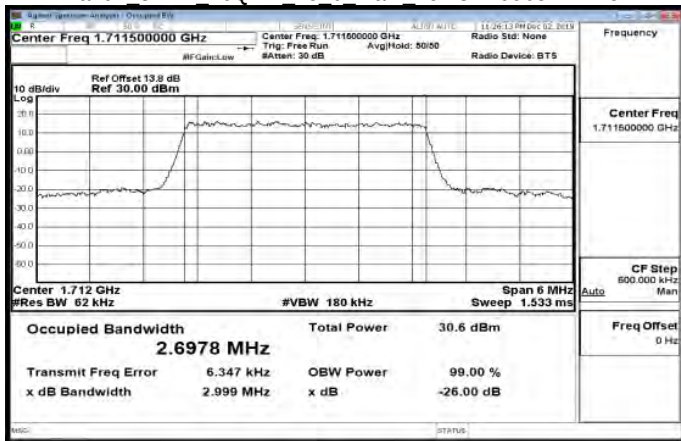
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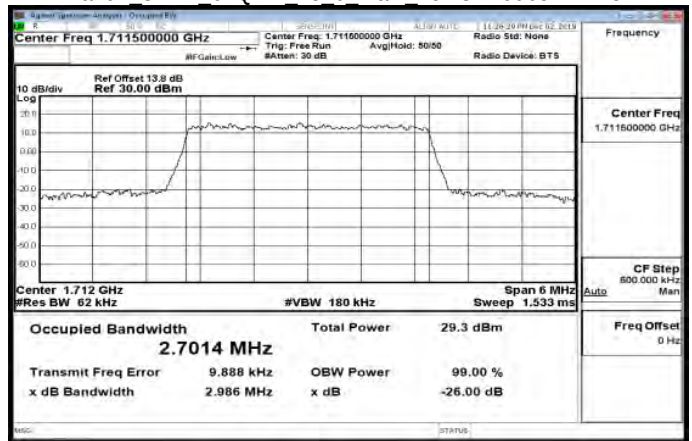
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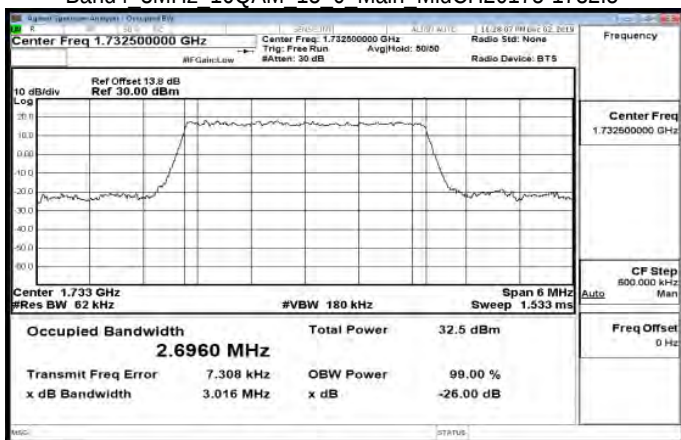
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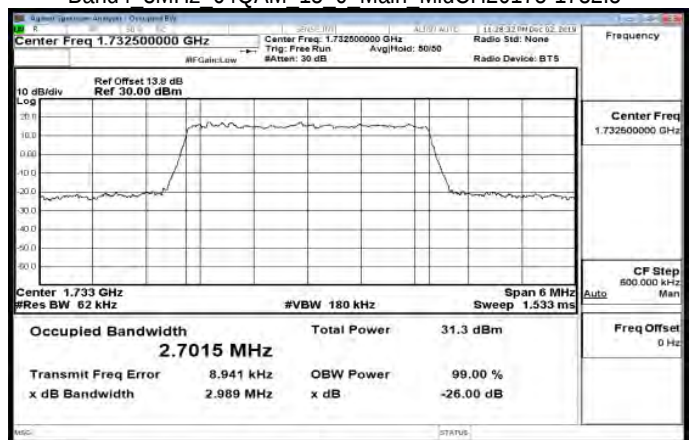
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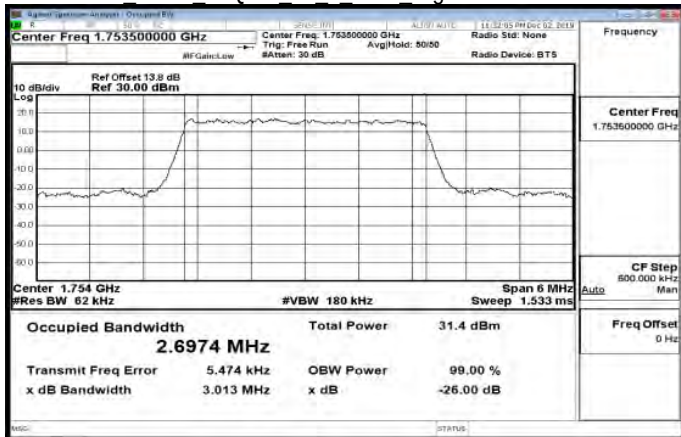
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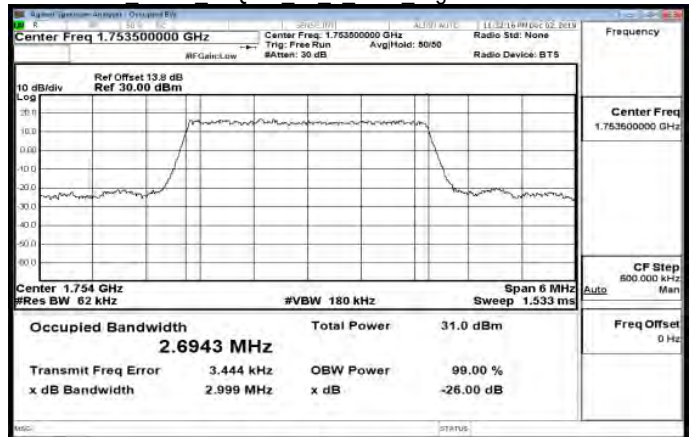
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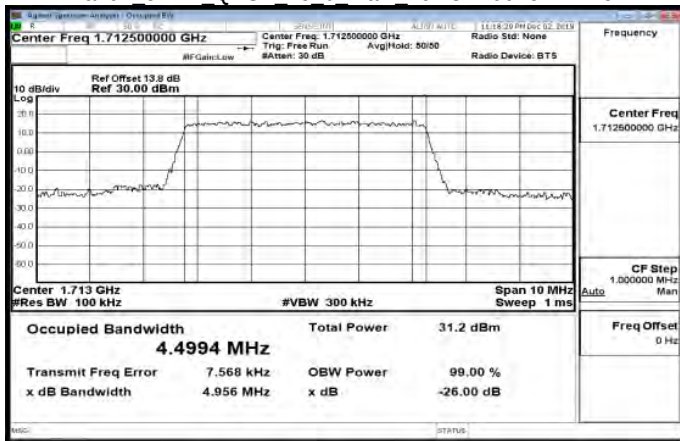
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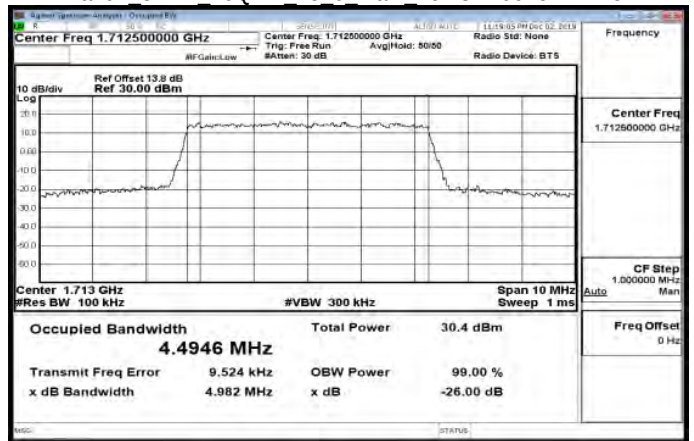
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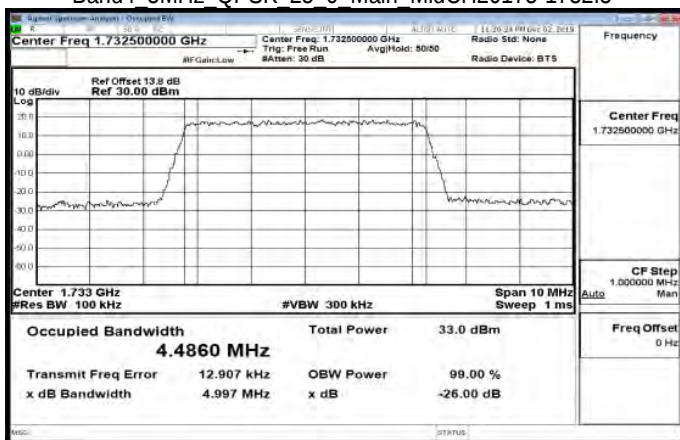
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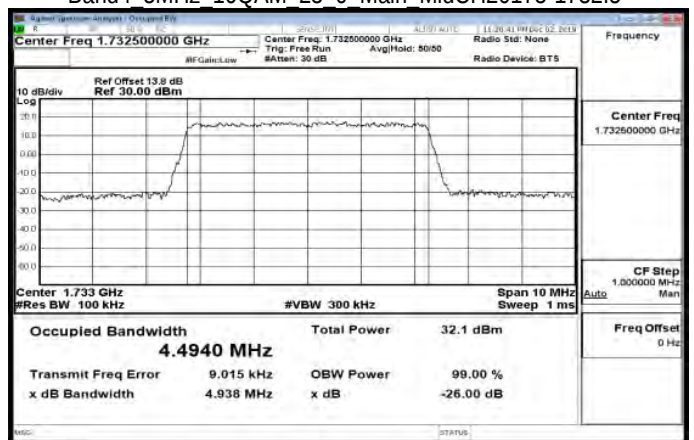
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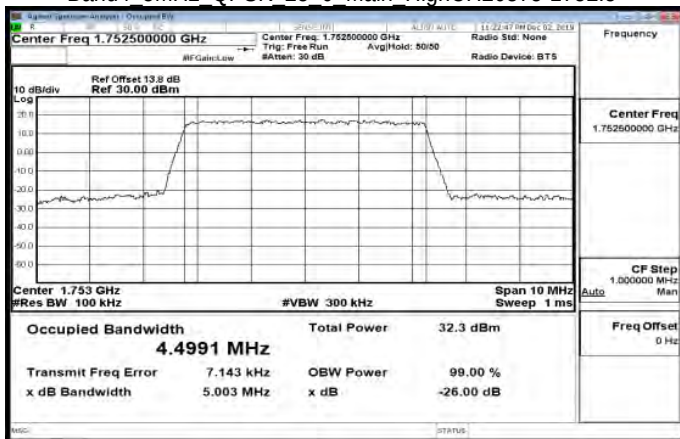
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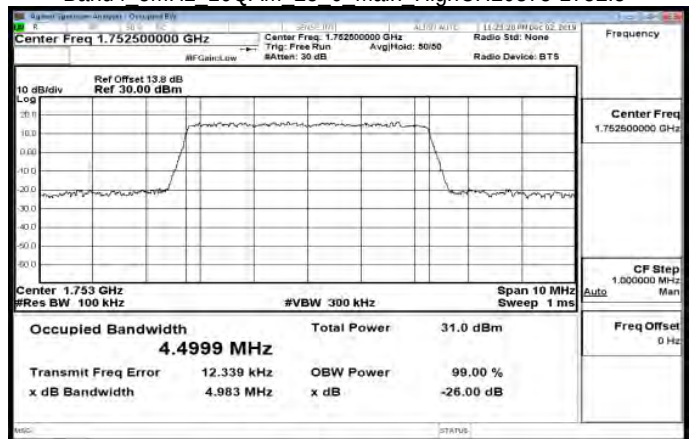
Band4 5MHz 16QAM 25 0 Main MidCH20175-1732.5



Band4 5MHz QPSK 25 0 Main HighCH20375-1752.5



Band4 5MHz 16QAM 25 0 Main HighCH20375-1752.5



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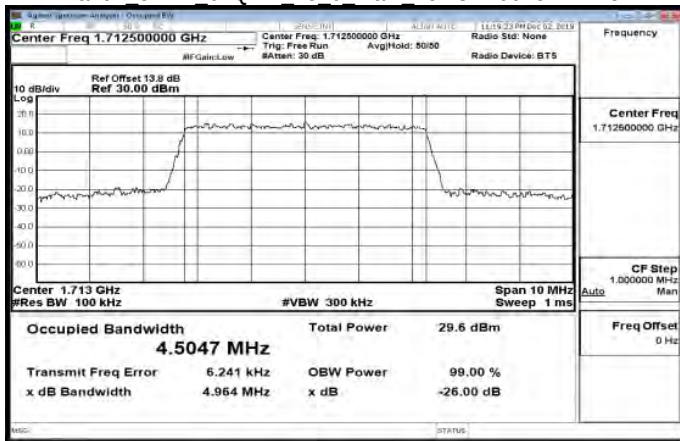
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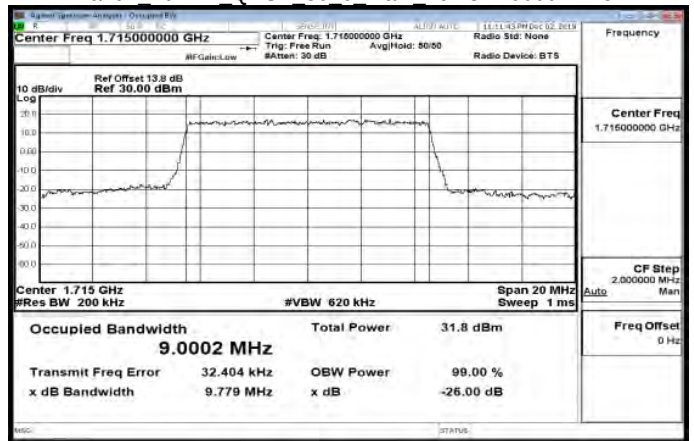
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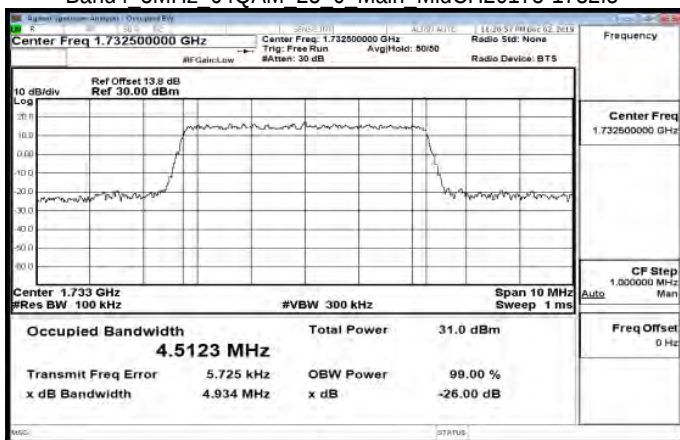
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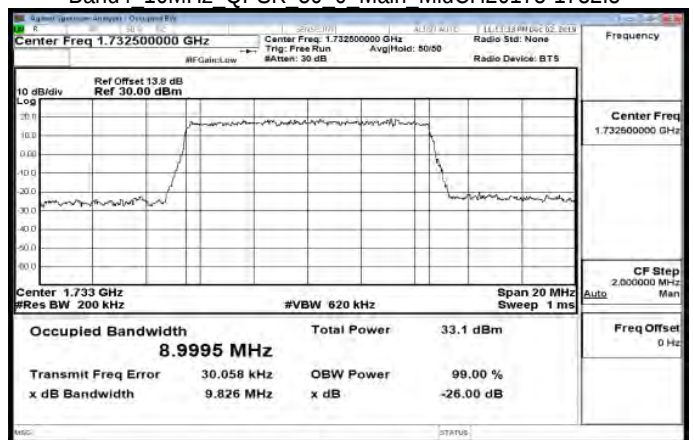
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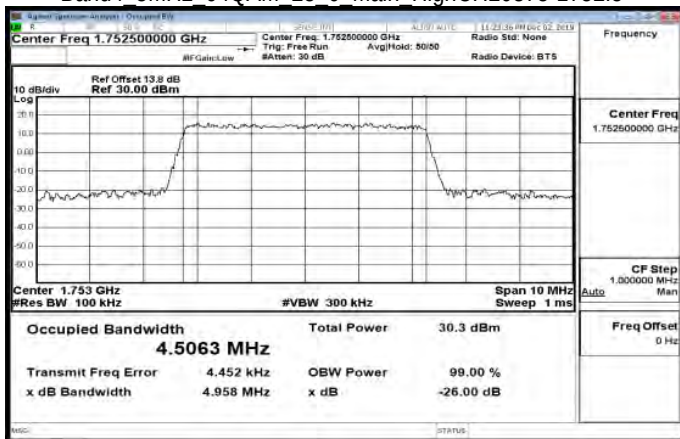
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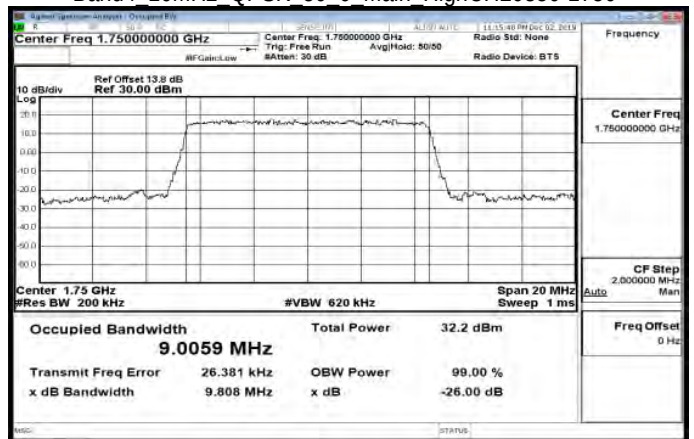
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Band4 5MHz 64QAM 25 0 Main HighCH20375-1752.5



Band4 10MHz QPSK 50 0 Main HighCH20350-1750



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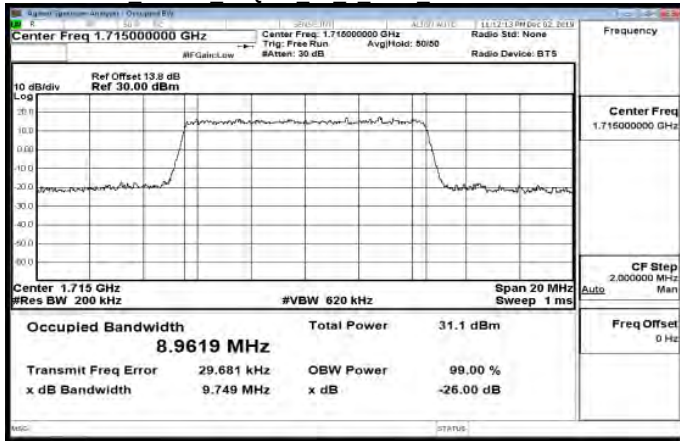
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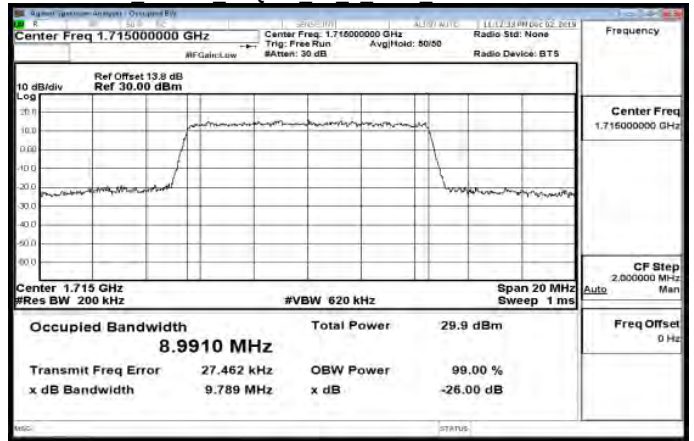
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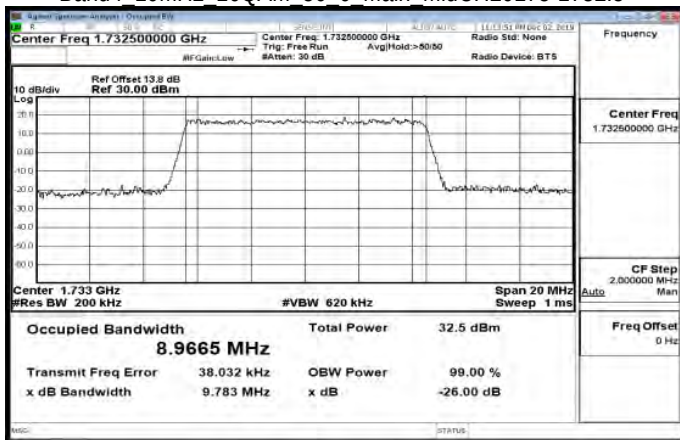
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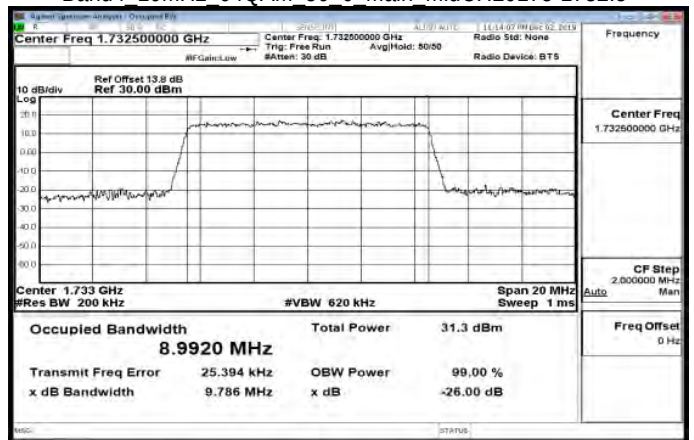
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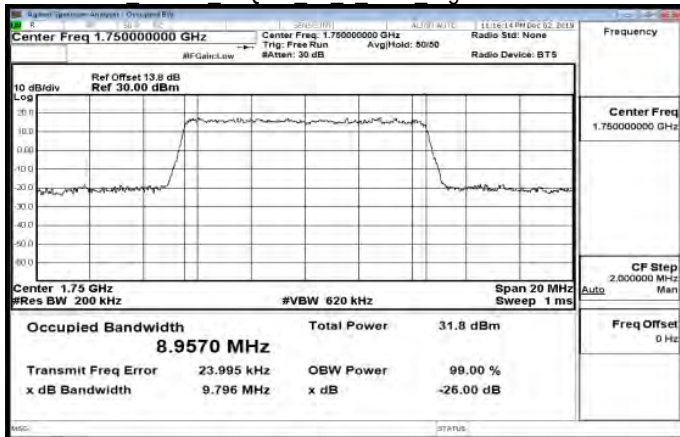
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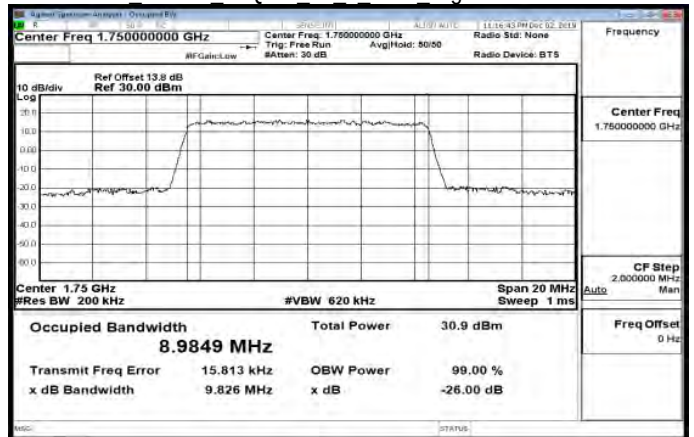
Band4 10MHz 64QAM 50 0 Main MidCH20175-1732.5



Band4 10MHz 16QAM 50 0 Main HighCH20350-1750



Band4 10MHz 64QAM 50 0 Main HighCH20350-1750



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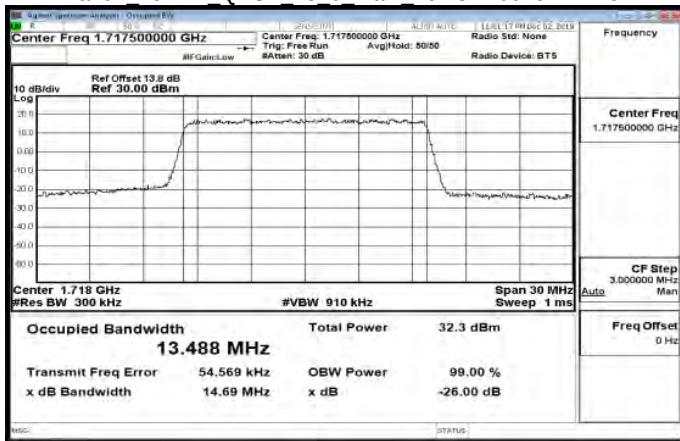
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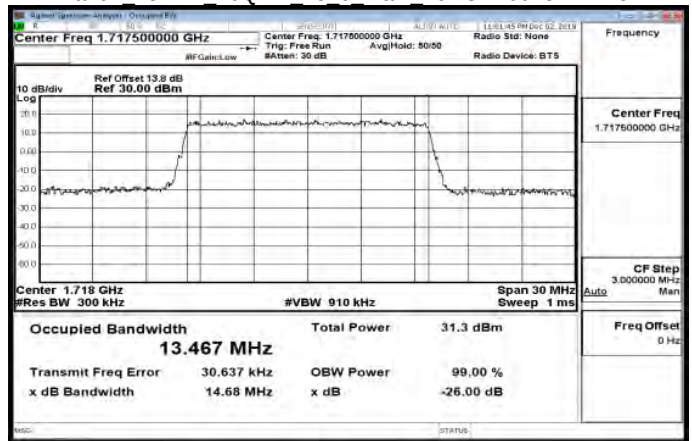
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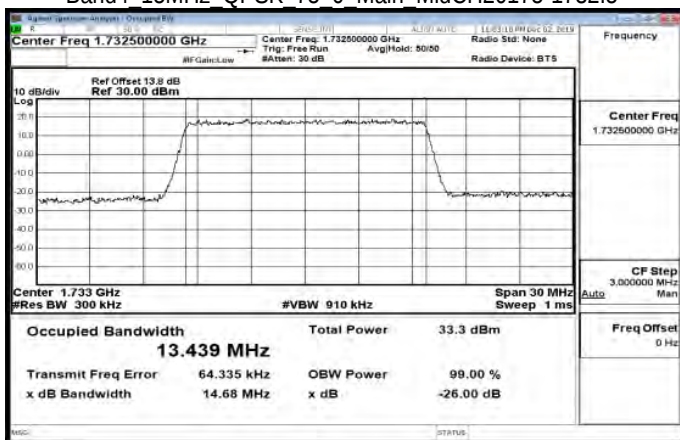
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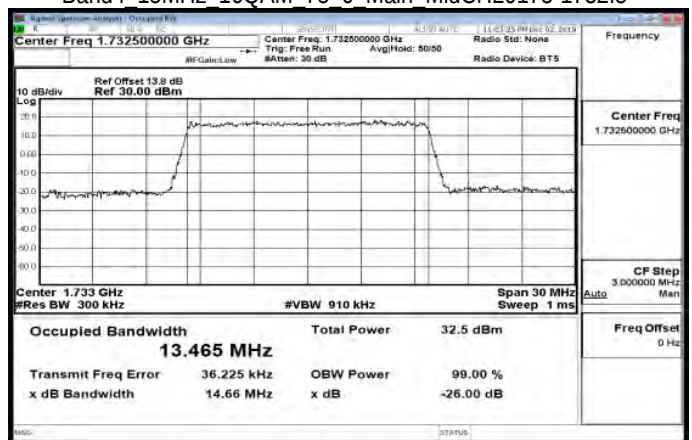
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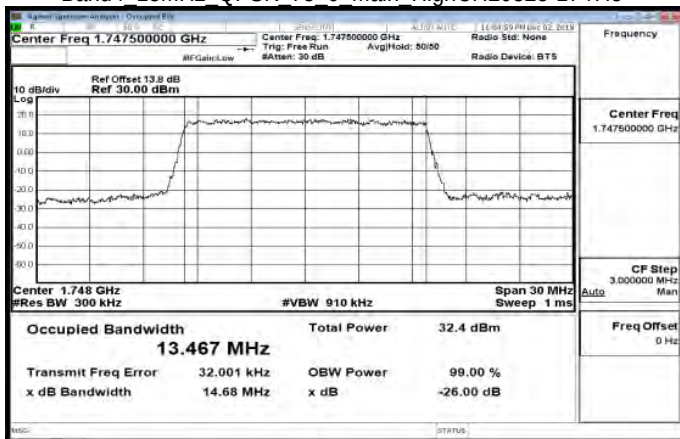
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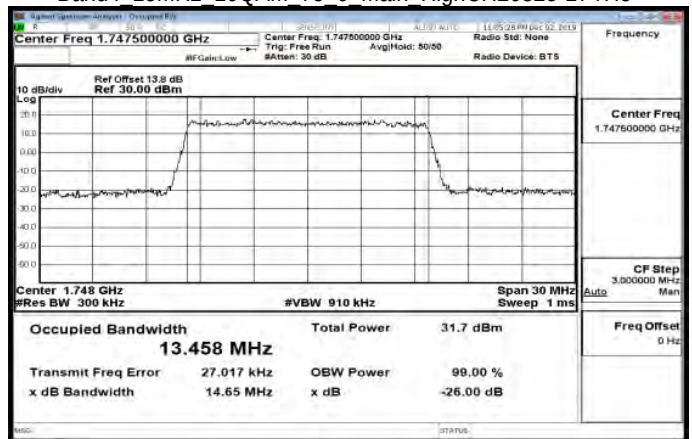
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Band4 15MHz QPSK 75 0 Main HighCH20325-1747.5



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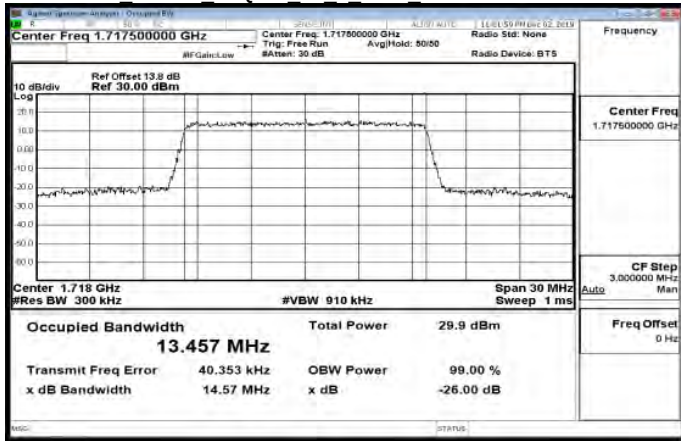
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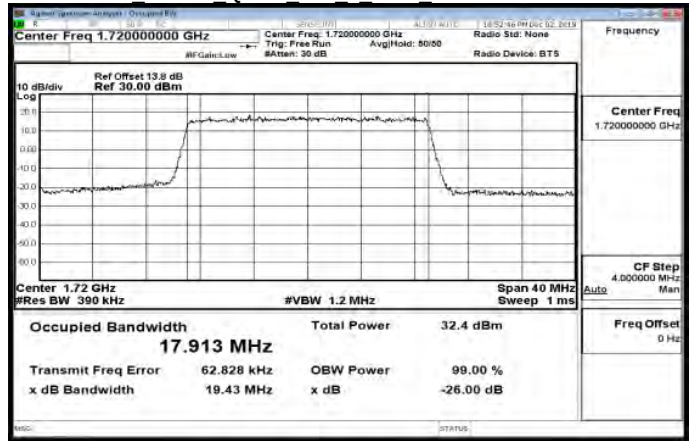
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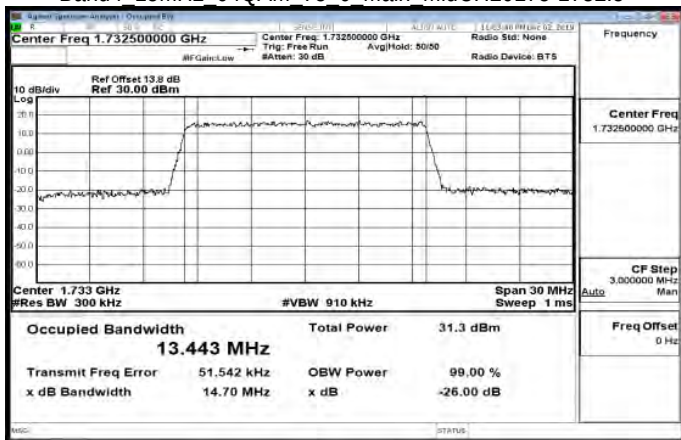
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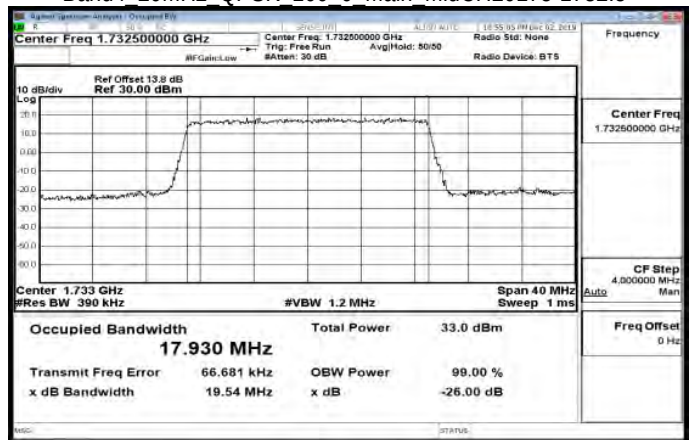
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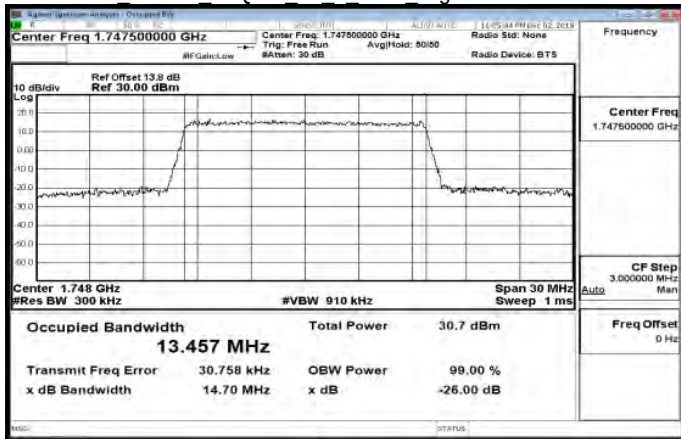
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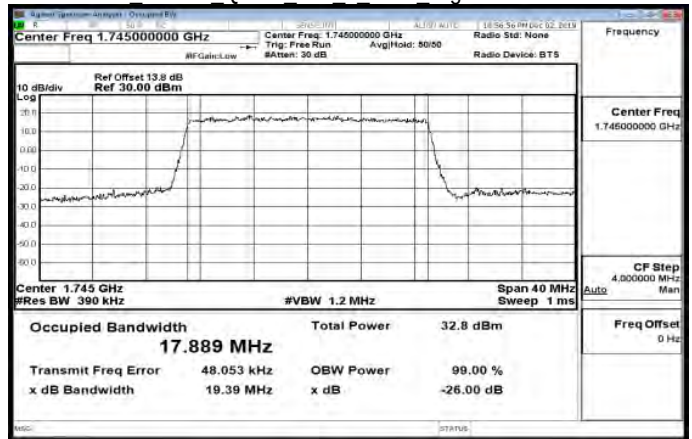
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Band4 15MHz 64QAM 75 0 Main HighCH20325-1747.5



Band4 20MHz QPSK 100 0 Main HighCH20300-1745



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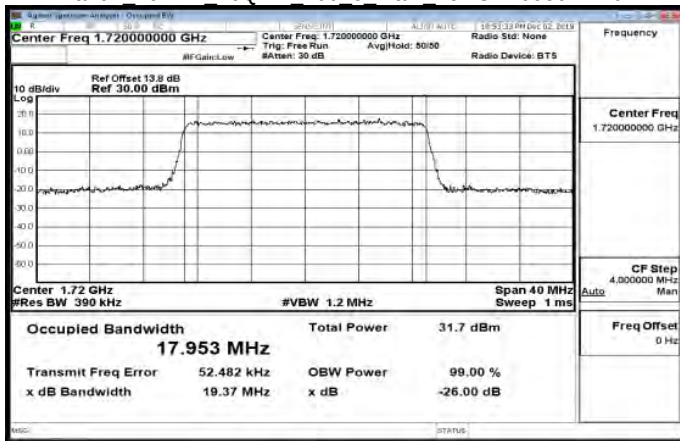
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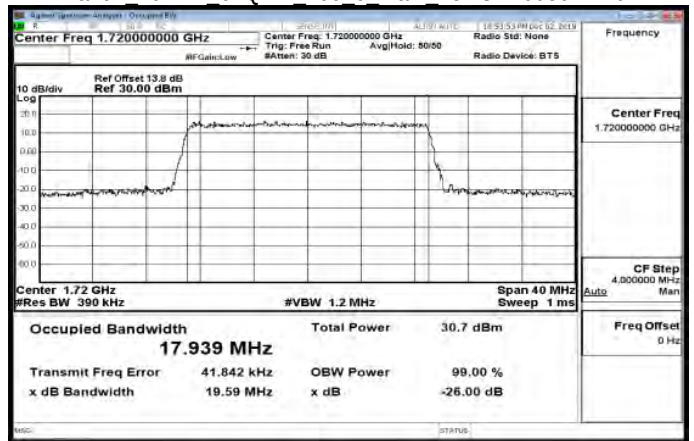
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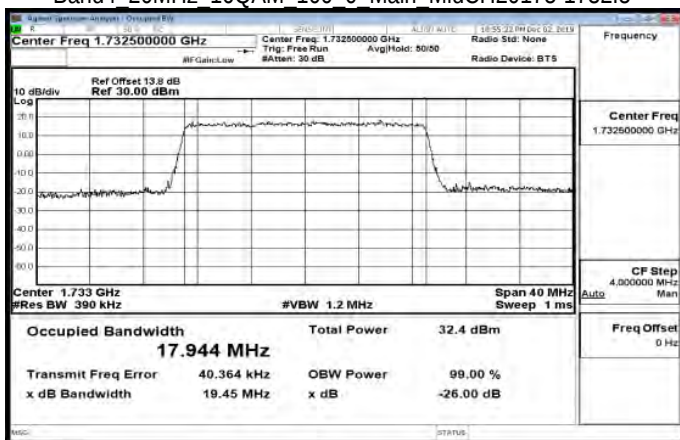
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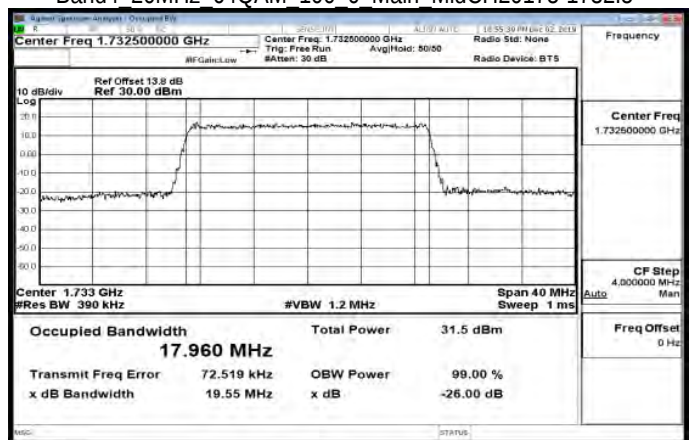
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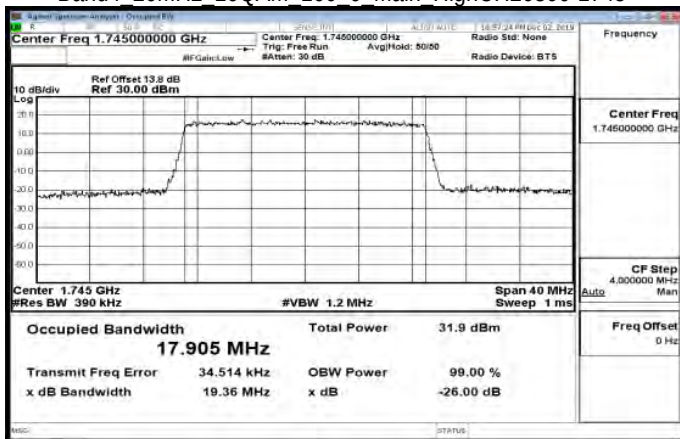
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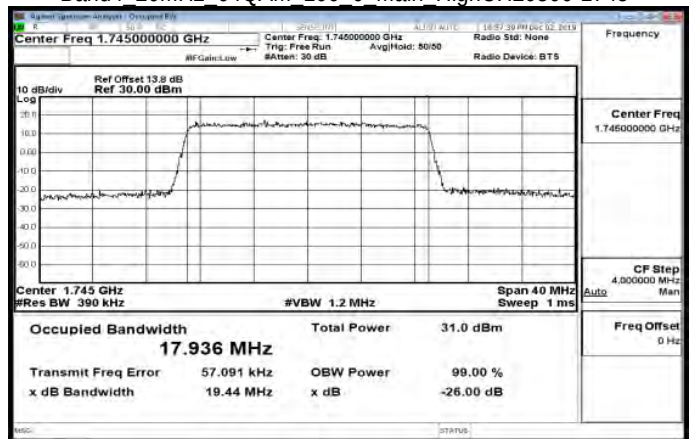
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Band4 20MHz 16QAM 100 0 Main HighCH20300-1745



Band4 20MHz 64QAM 100 0 Main HighCH20300-1745



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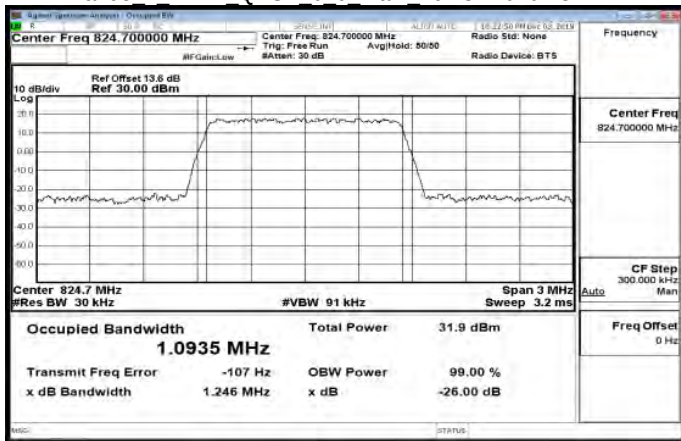
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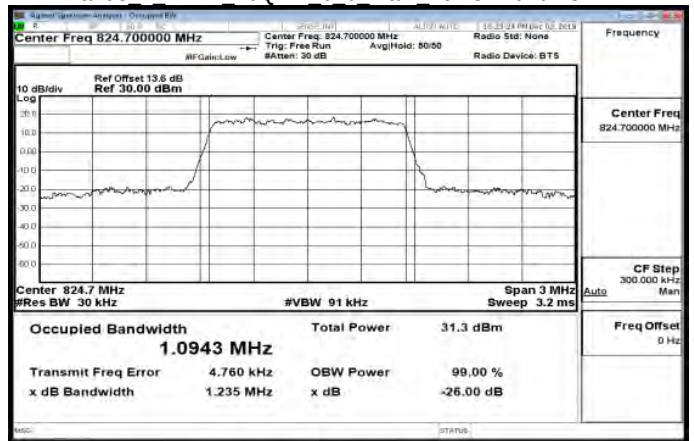
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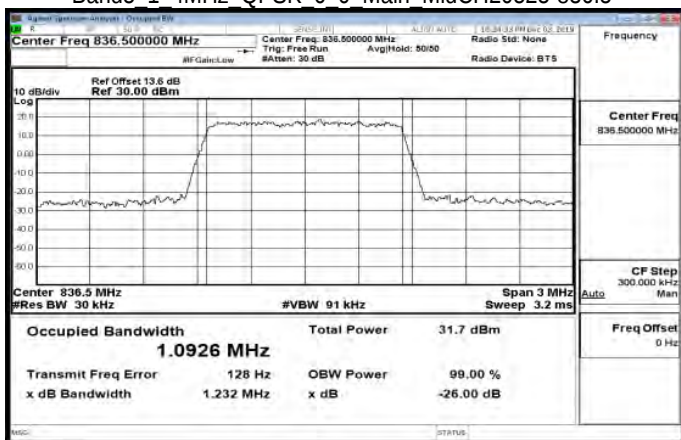
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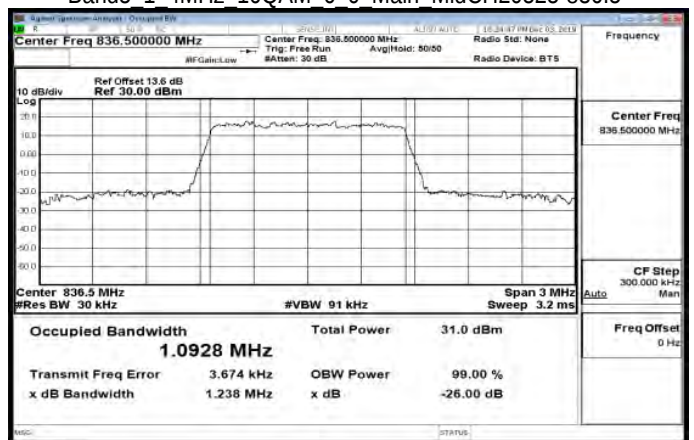
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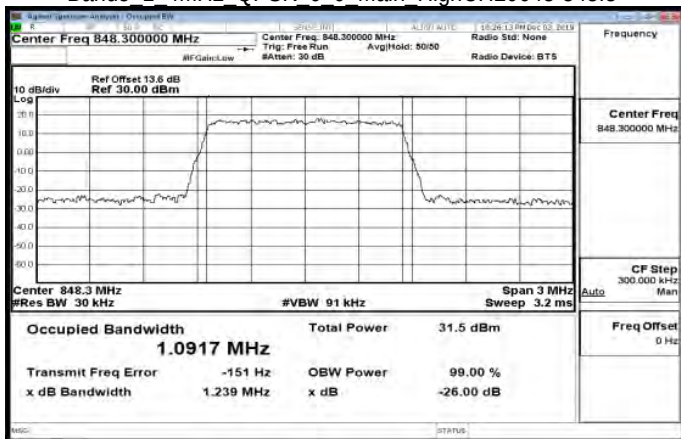
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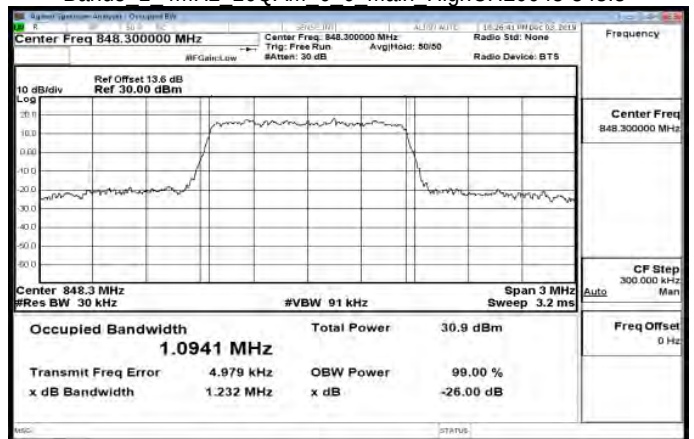
Band5 1 4MHz 16QAM 6 0 Main MidCH20525-836.5



Band5 1 4MHz QPSK 6 0 Main HighCH20643-848.3



Band5 1 4MHz 16QAM 6 0 Main HighCH20643-848.3



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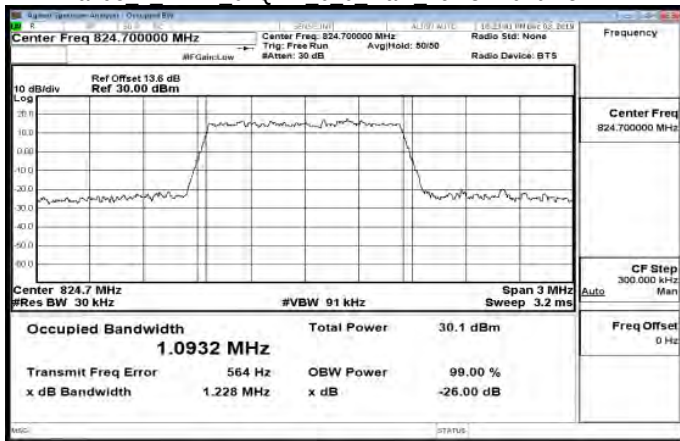
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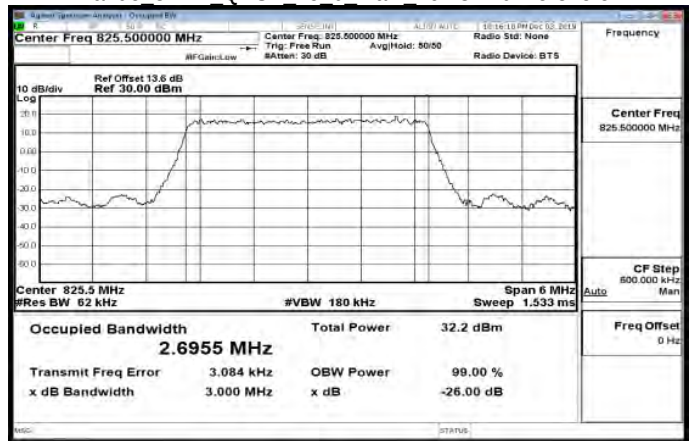
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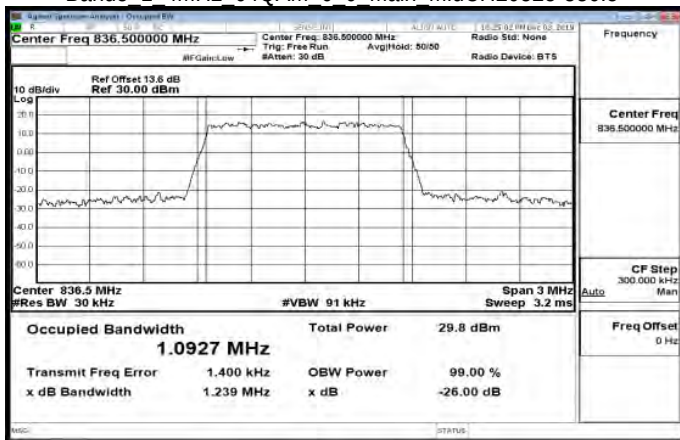
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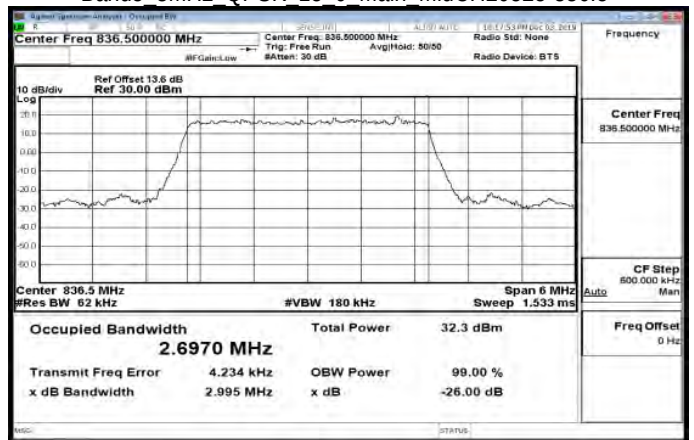
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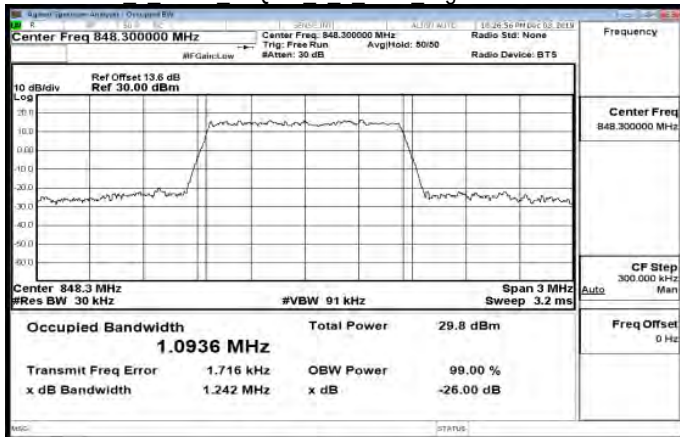
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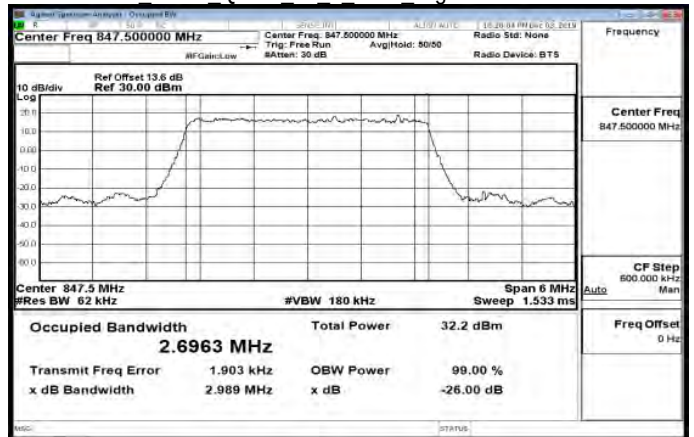
Band5 3MHz QPSK 15 0 Main MidCH20525-836.5



Band5 1 4MHz 64QAM 6 0 Main HighCH20643-848.3



Band5 3MHz QPSK 15 0 Main HighCH20635-847.5



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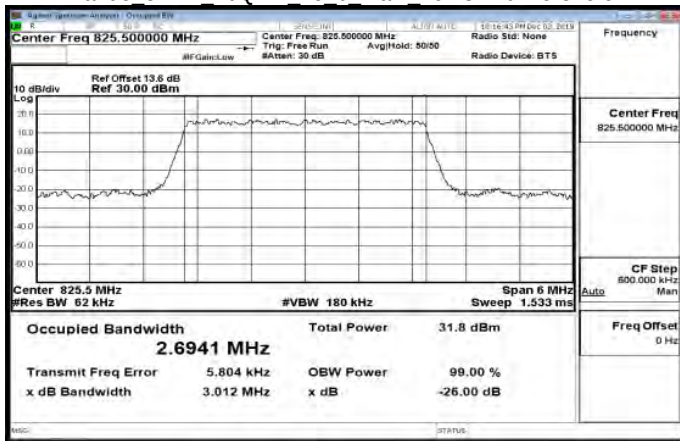
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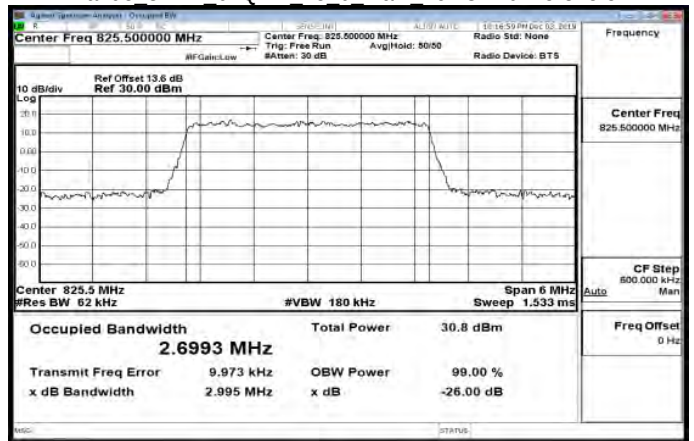
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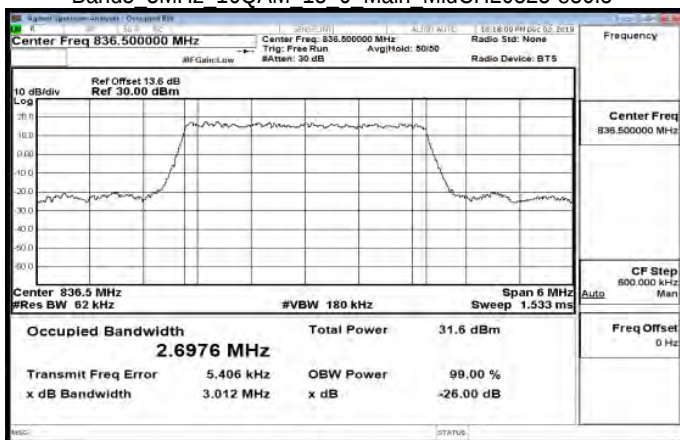
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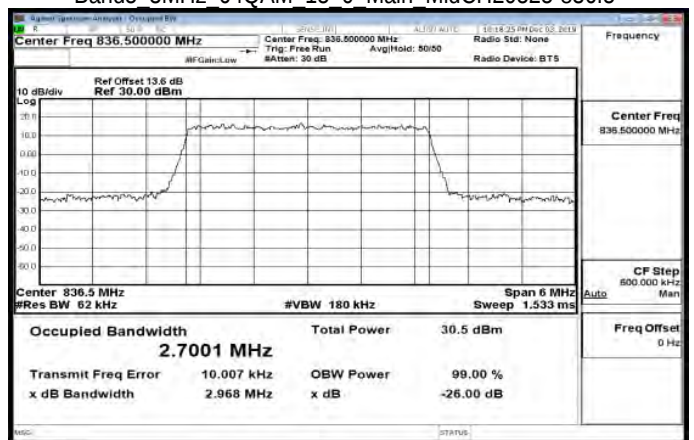
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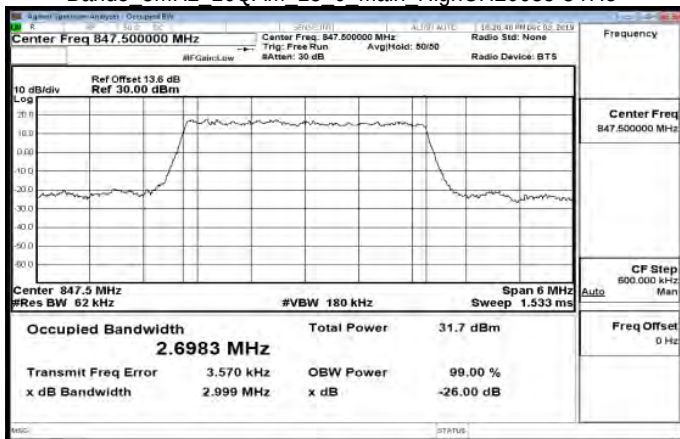
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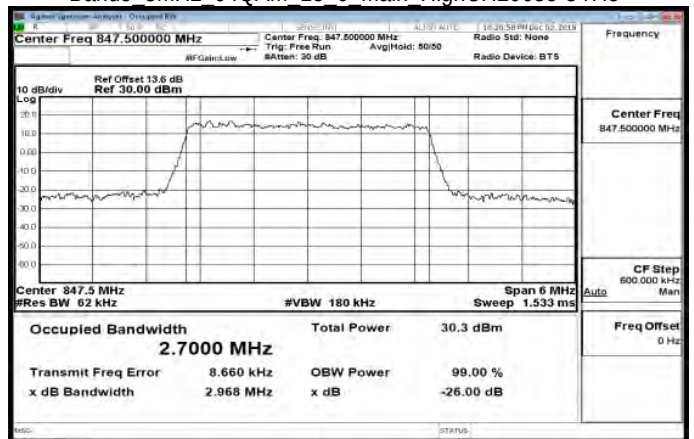
Band5 3MHz 64QAM 15 0 Main MidCH20525-836.5



Band5 3MHz 16QAM 15 0 Main HighCH20635-847.5



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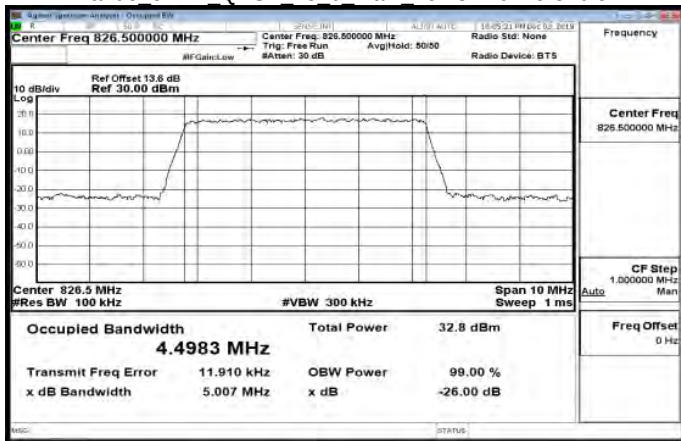
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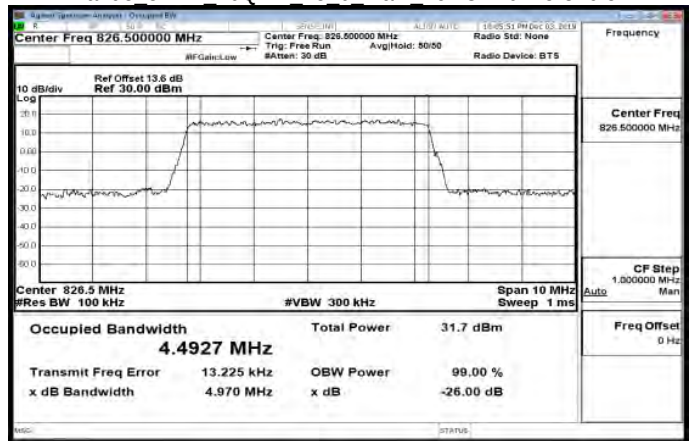
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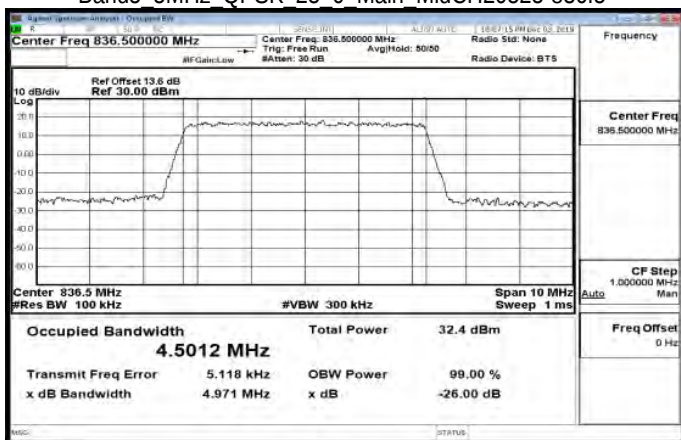
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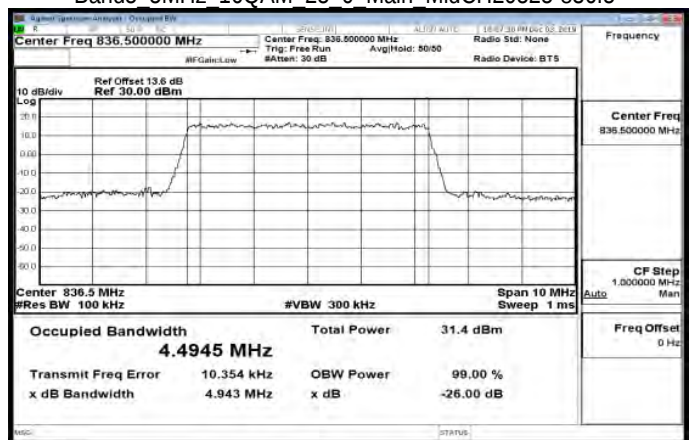
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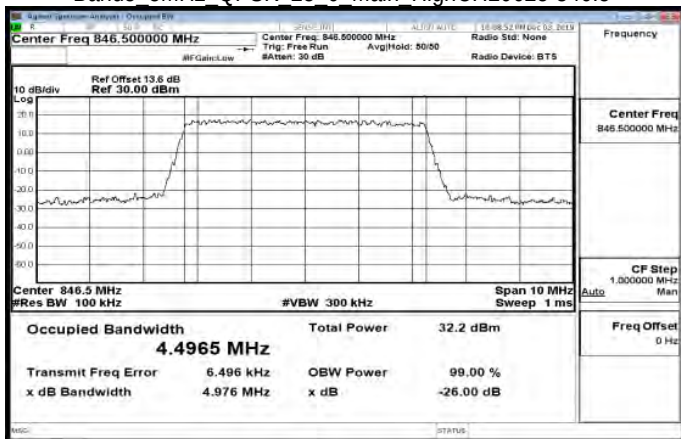
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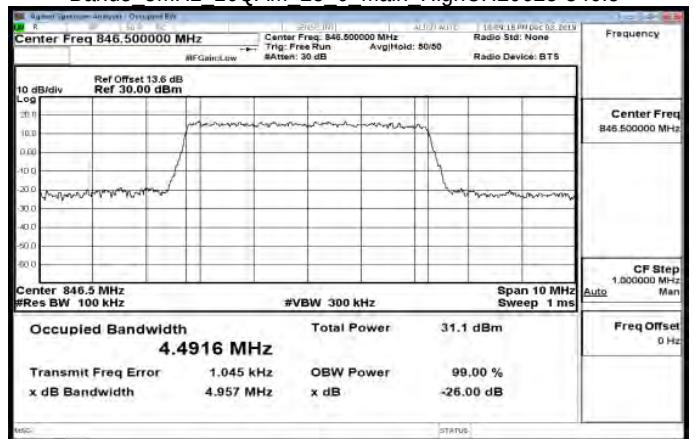
Band5 5MHz 16QAM 25 0 Main MidCH20525-836.5



Band5 5MHz QPSK 25 0 Main HighCH20625-846.5



Band5 5MHz 16QAM 25 0 Main HighCH20625-846.5



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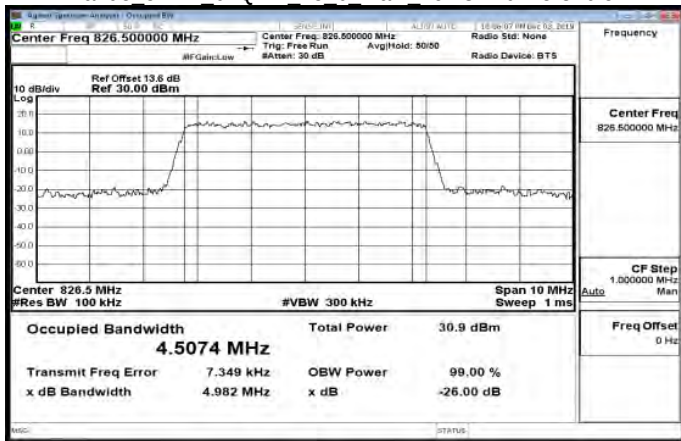
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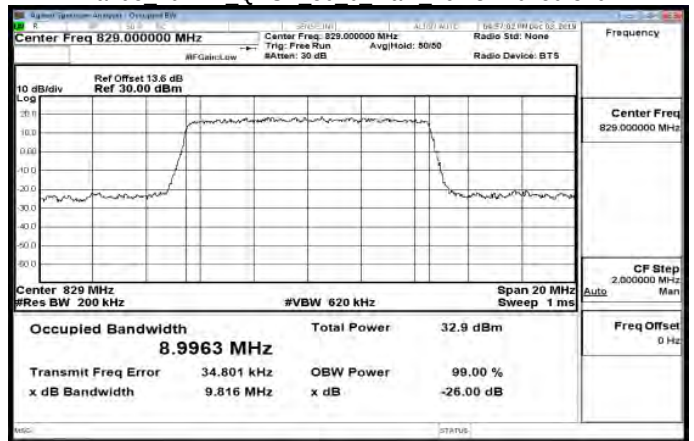
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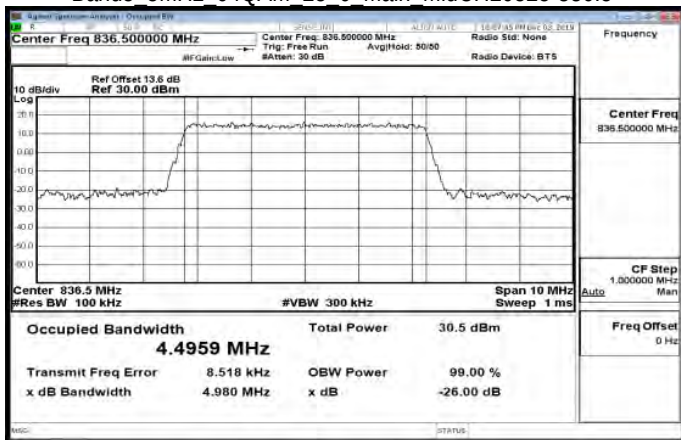
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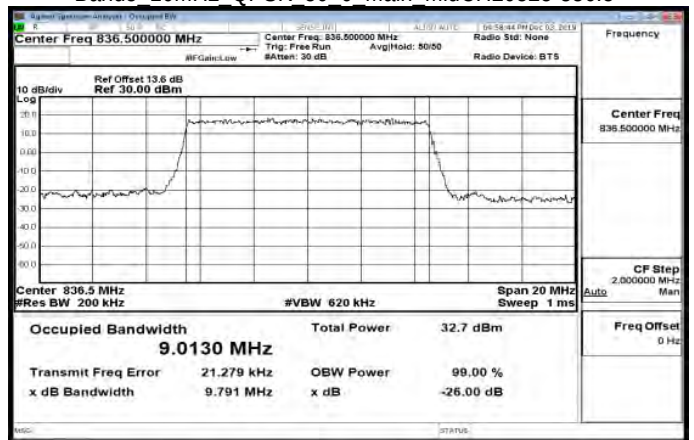
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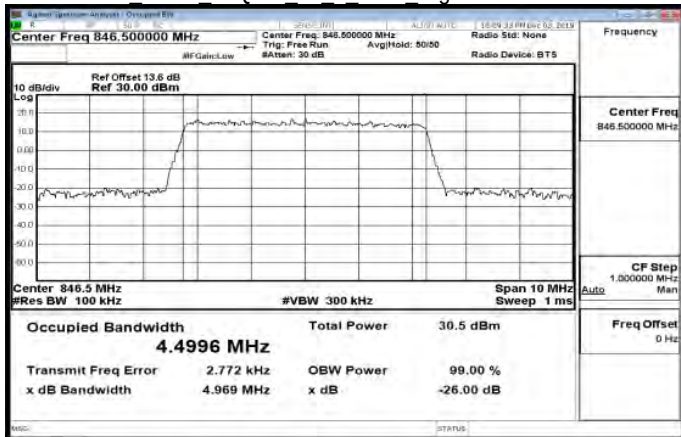
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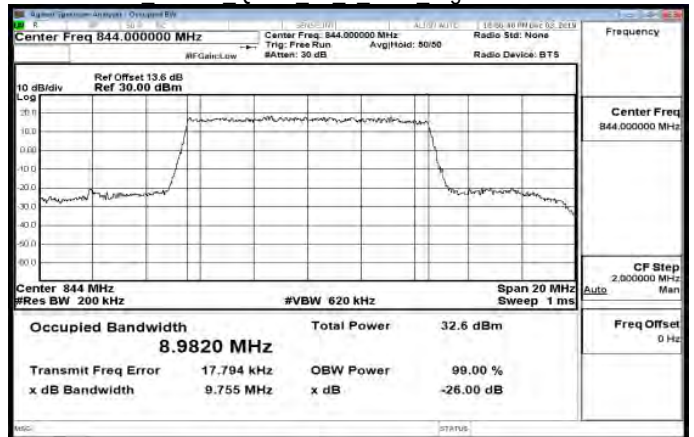
Band5 10MHz QPSK 50 0 Main MidCH20525-836.5



Band5 5MHz 64QAM 25 0 Main HighCH20625-846.5



Band5 10MHz QPSK 50 0 Main HighCH20600-844



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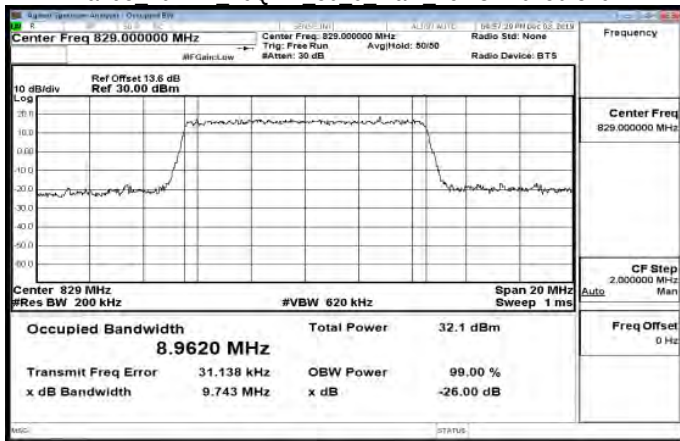
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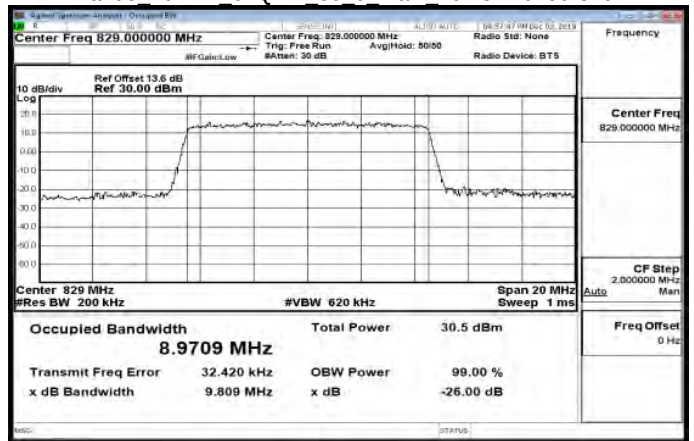
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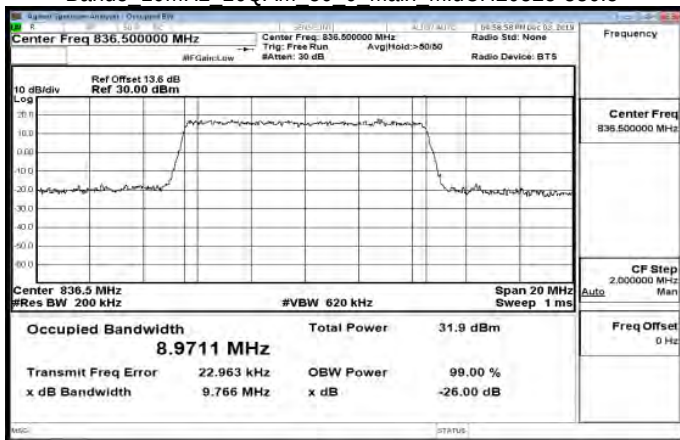
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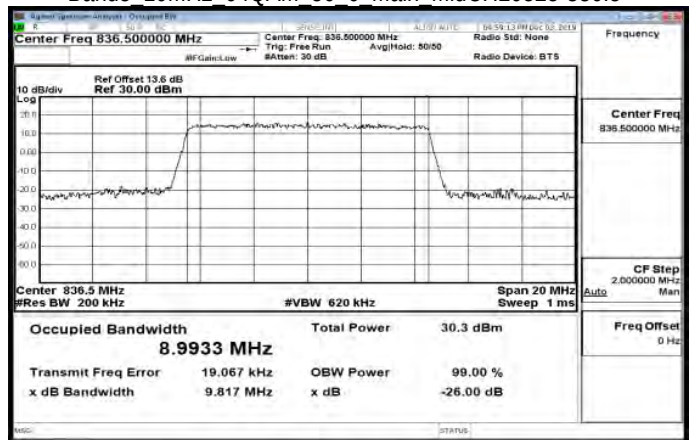
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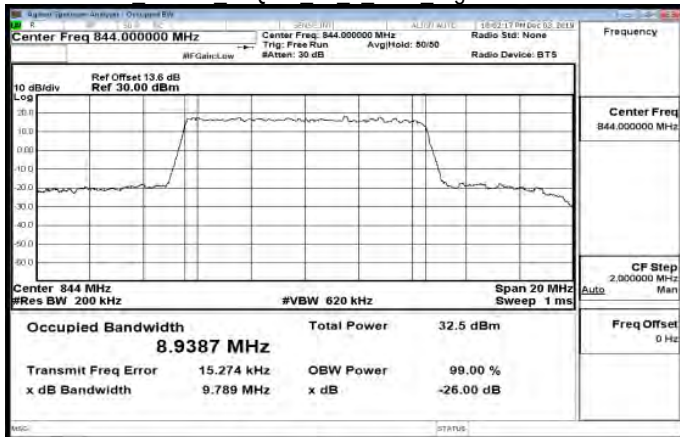
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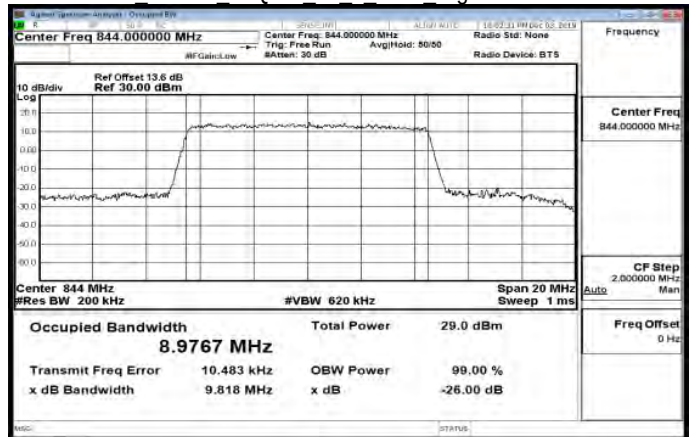
Band5 10MHz 64QAM 50 0 Main MidCH20525-836.5



Band5 10MHz 16QAM 50 0 Main HighCH20600-844



Band5 10MHz 64QAM 50 0 Main HighCH20600-844



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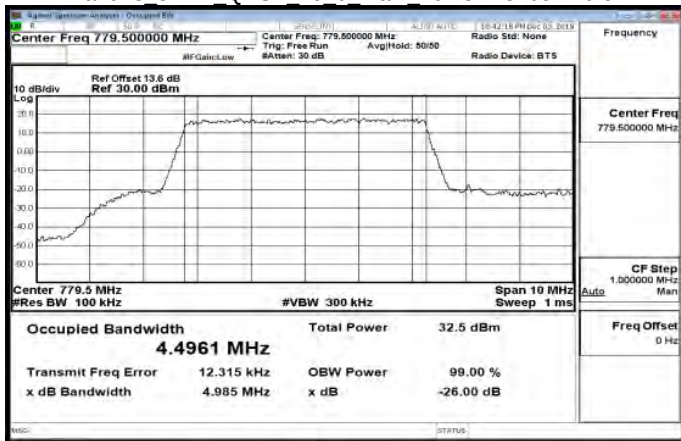
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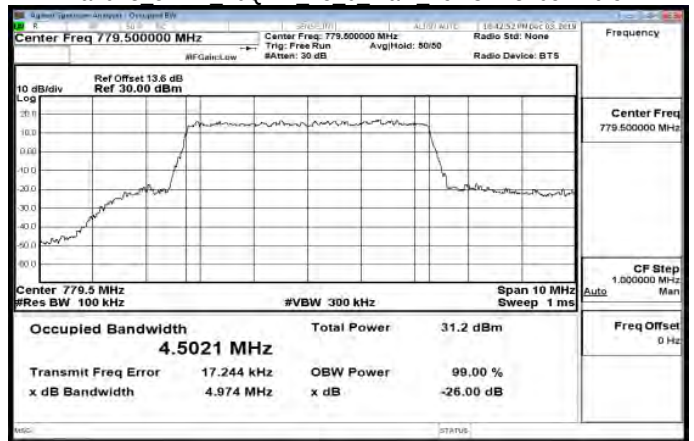
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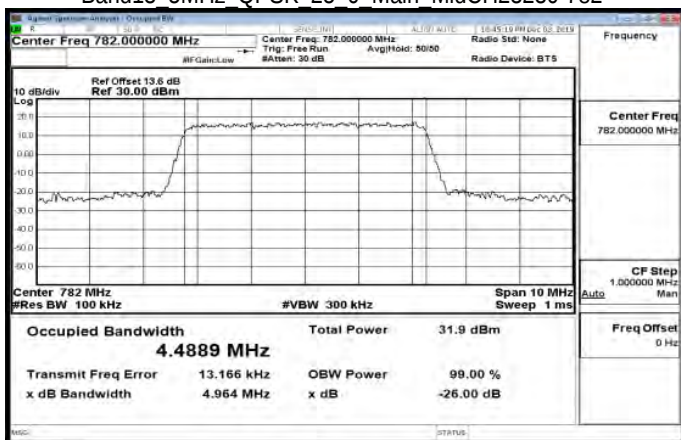
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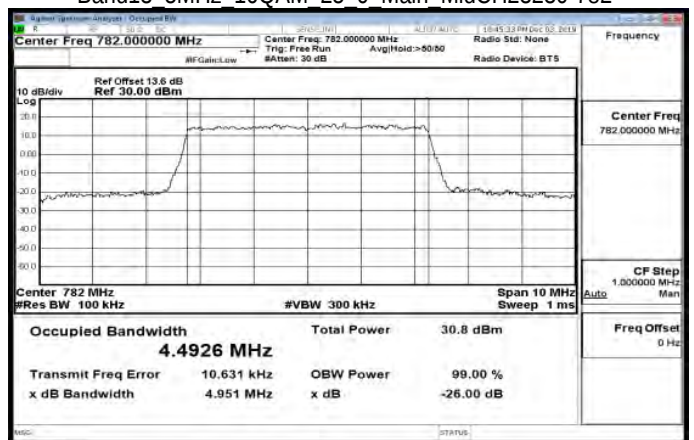
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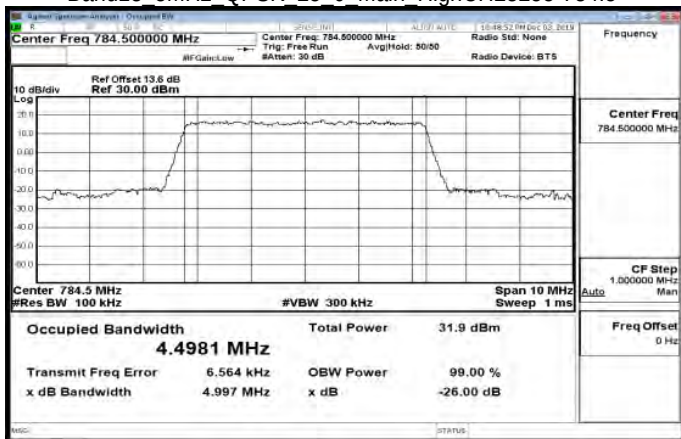
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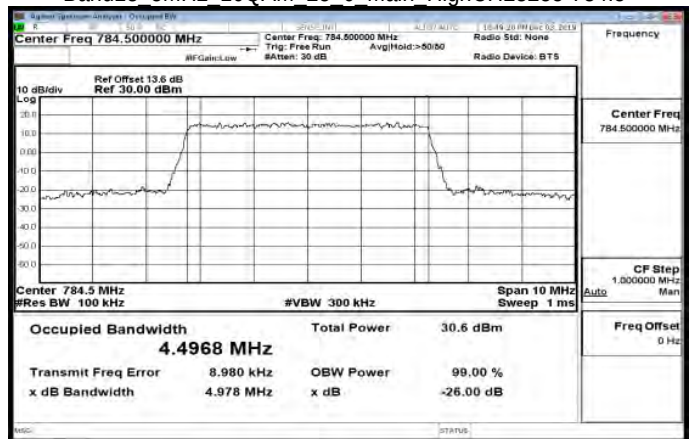
Band13 5MHz 16QAM 25 0 Main MidCH23230-782



Band13 5MHz QPSK 25 0 Main HighCH23255-784.5



Band13 5MHz 16QAM 25 0 Main HighCH23255-784.5



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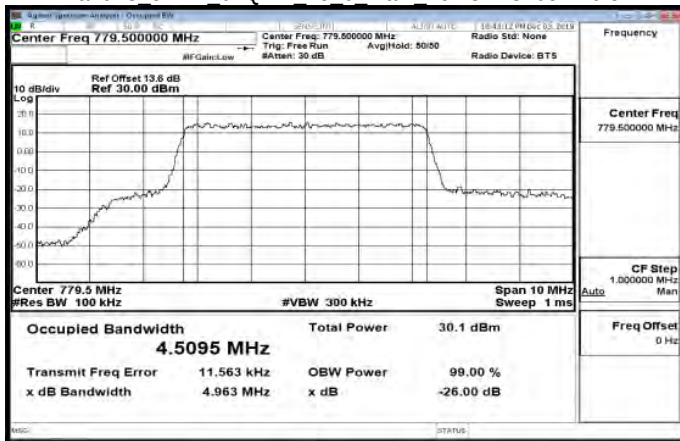
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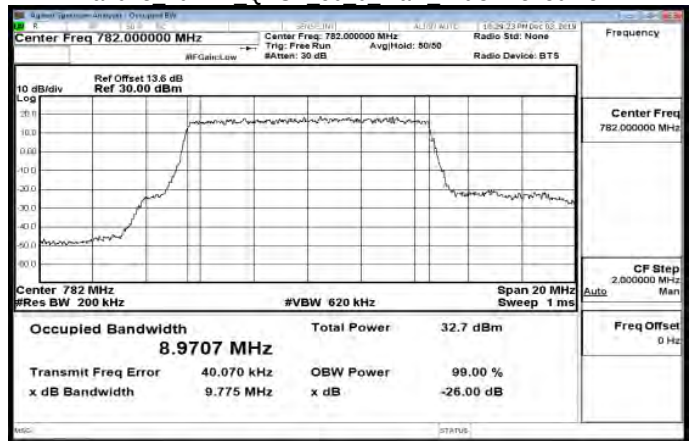
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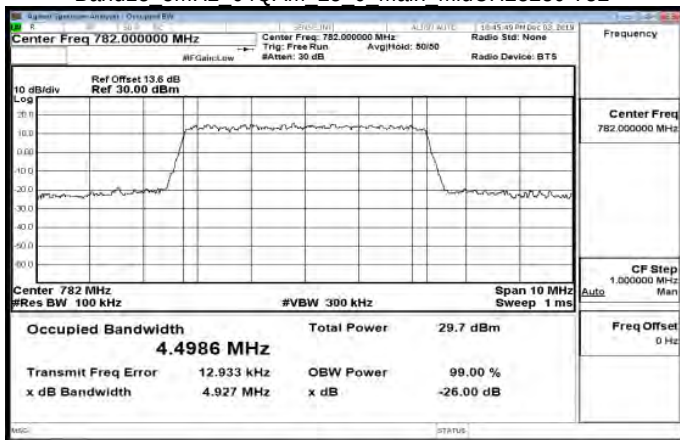
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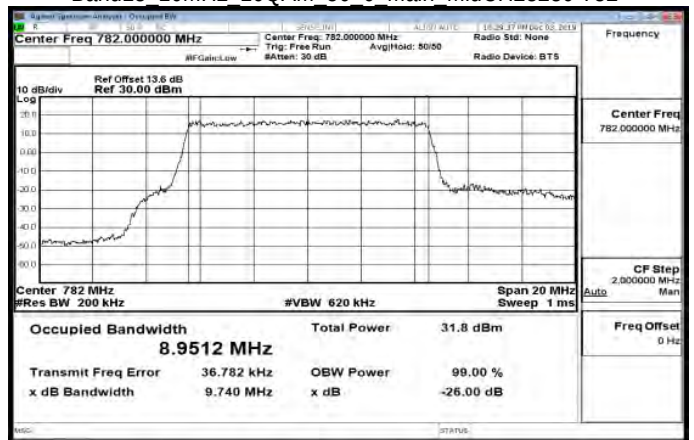
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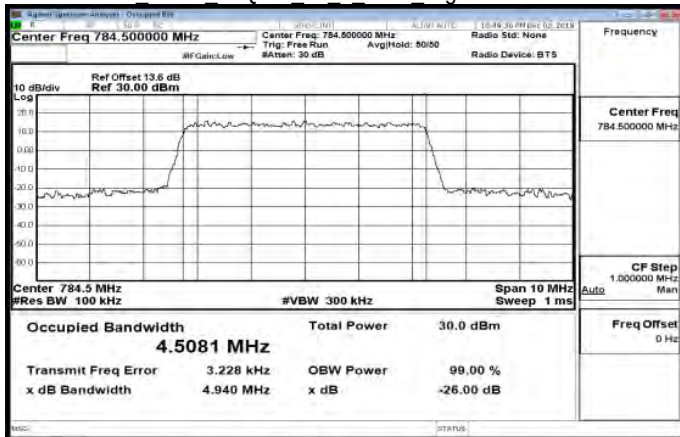
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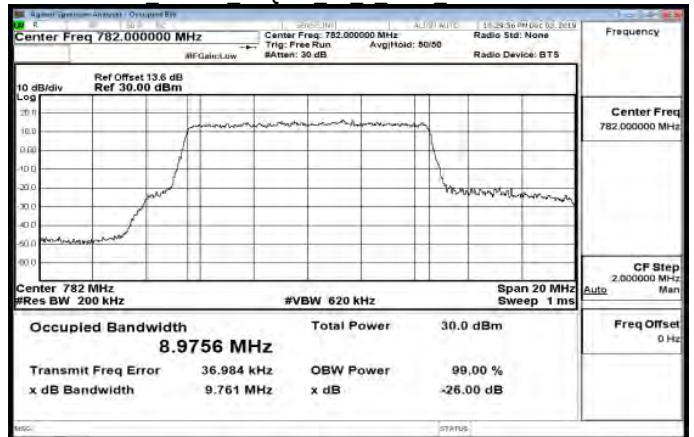
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Band13 5MHz 64QAM 25 0 Main HighCH23255-784.5



Band13 10MHz 64QAM 50 0 Main MidCH23230-782



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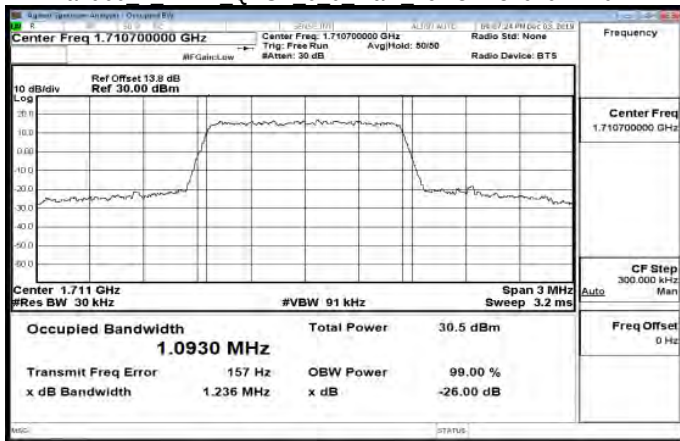
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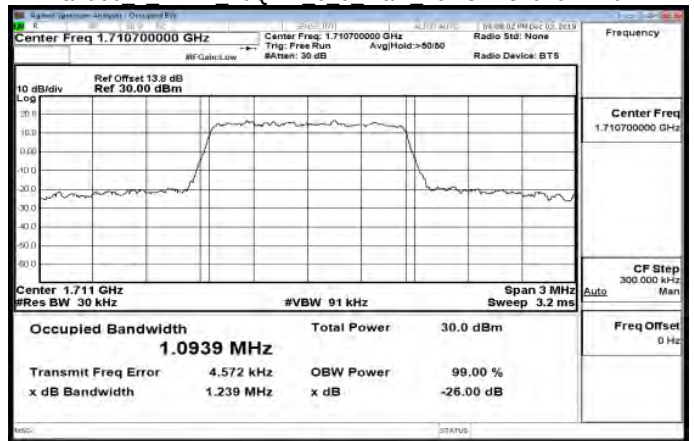
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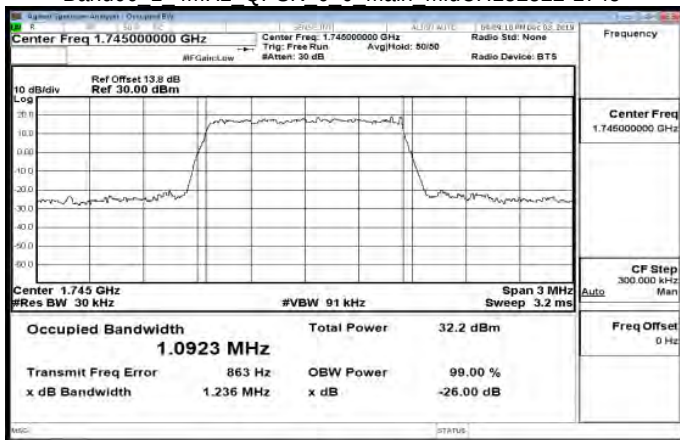
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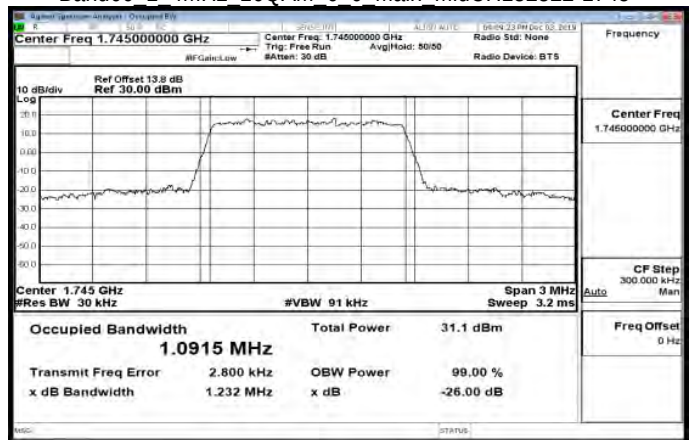
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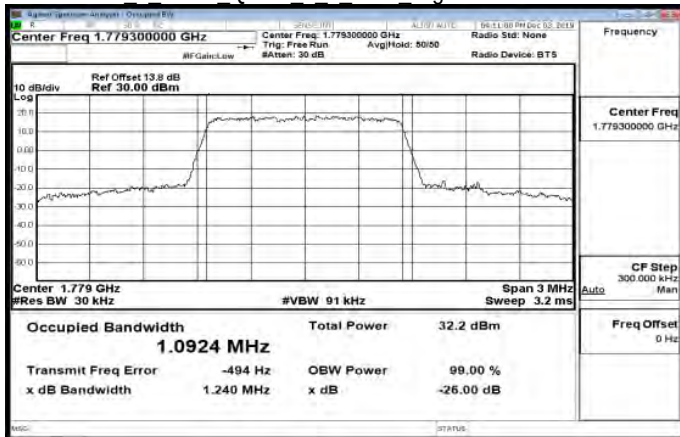
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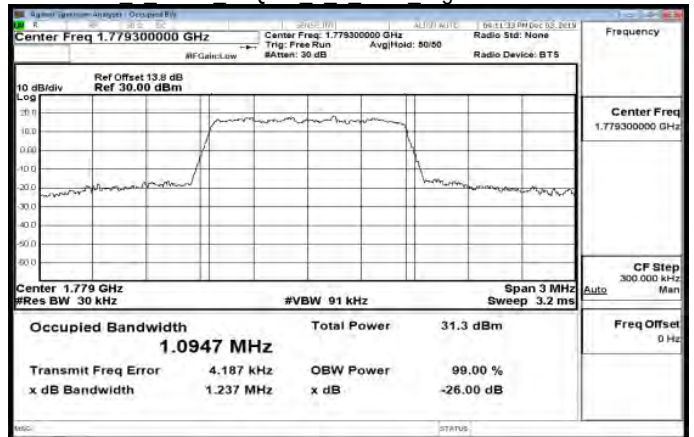
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Band66 1 4MHz 16QAM 6 0 Main HighCH132665-1779.3



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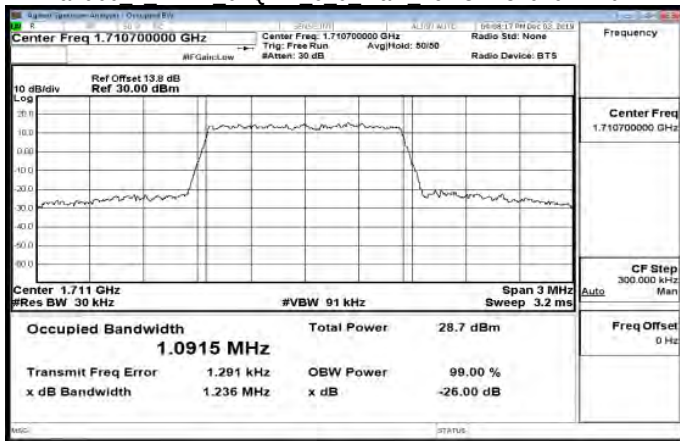
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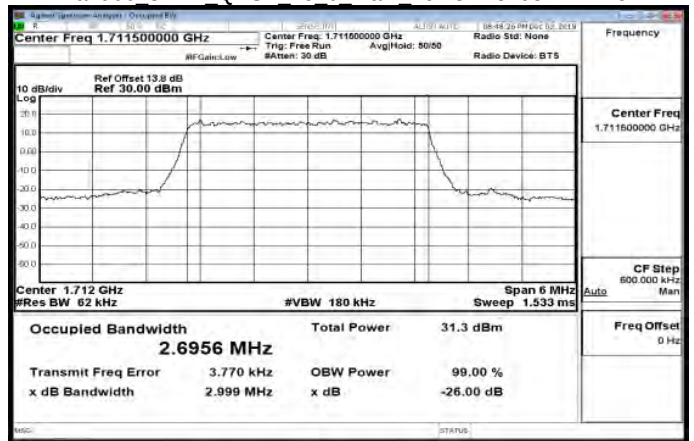
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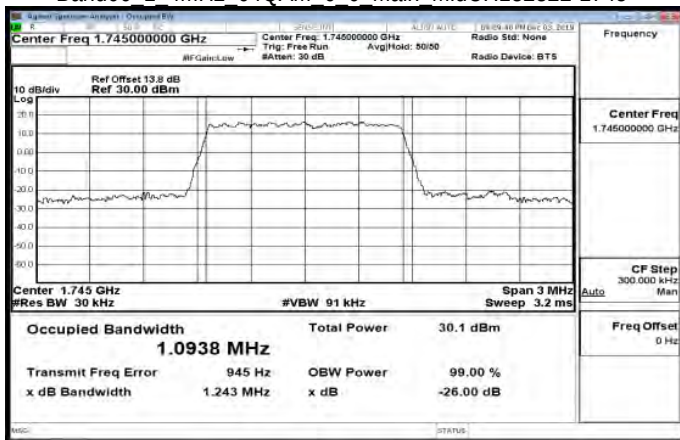
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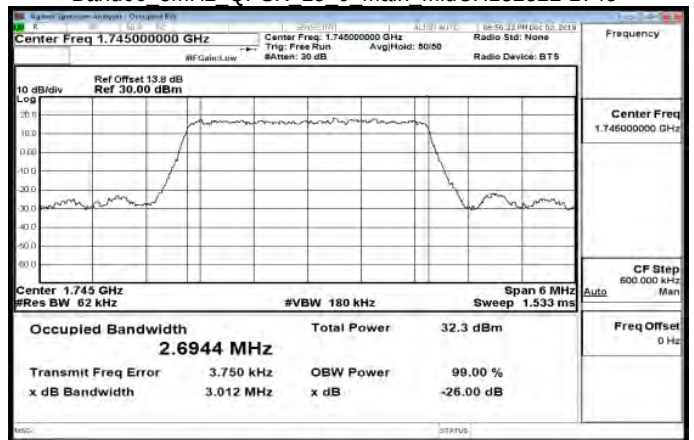
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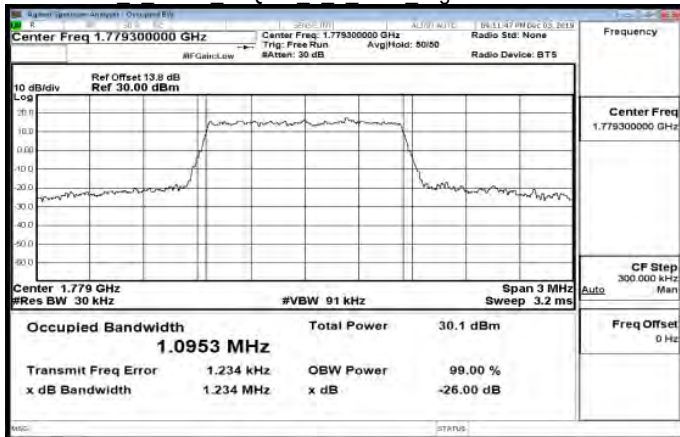
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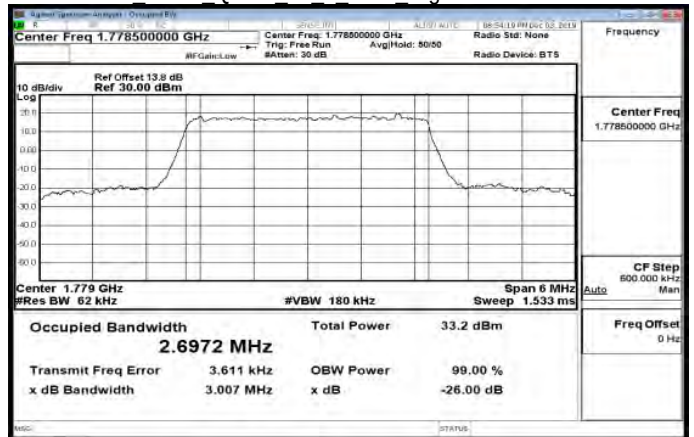
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Band66 3MHz QPSK 15 0 Main HighCH132657-1778.5



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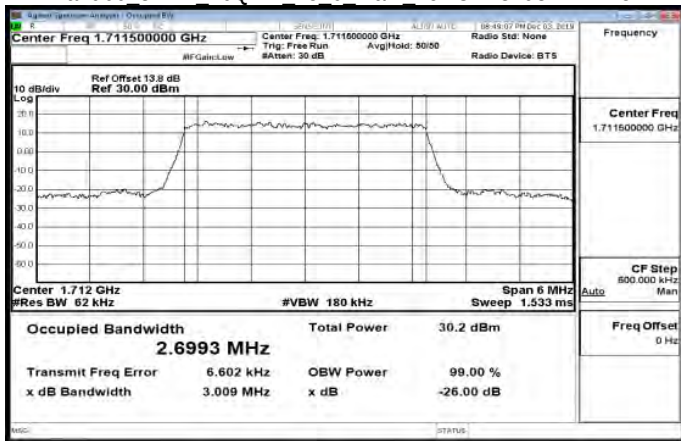
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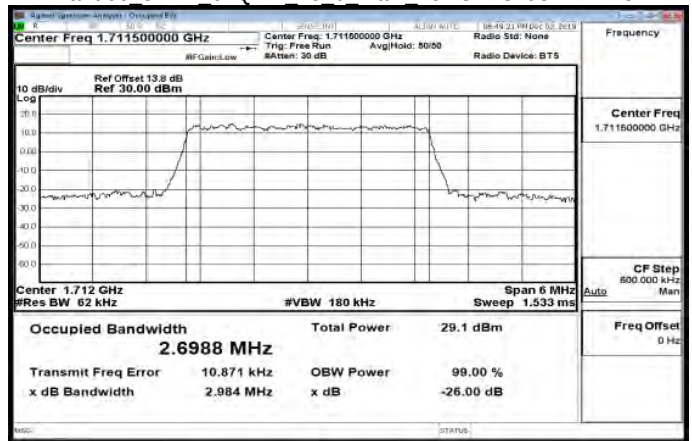
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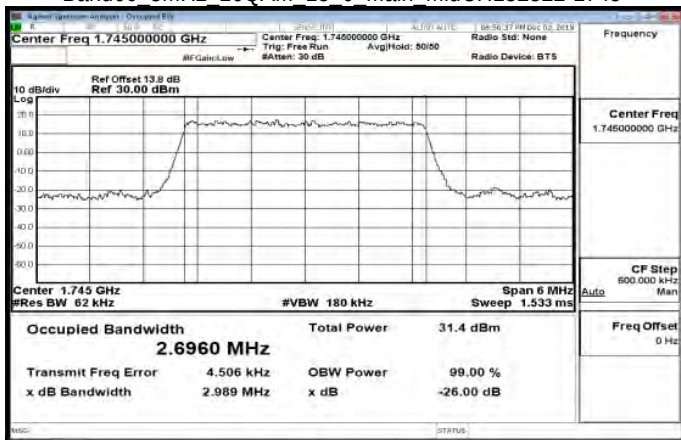
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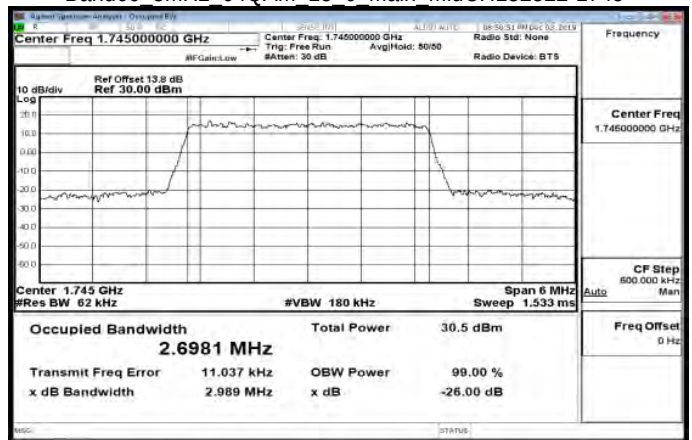
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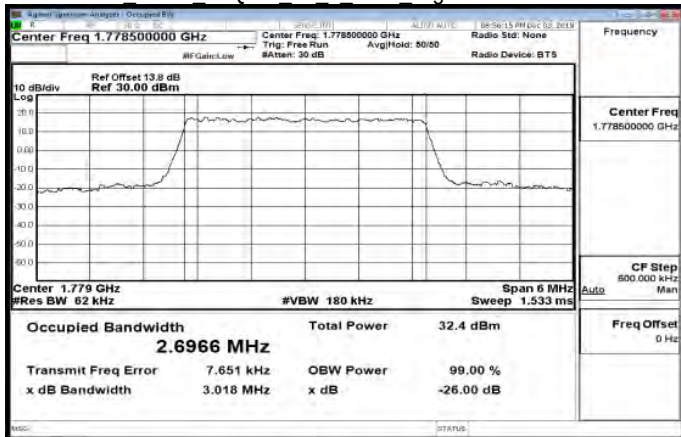
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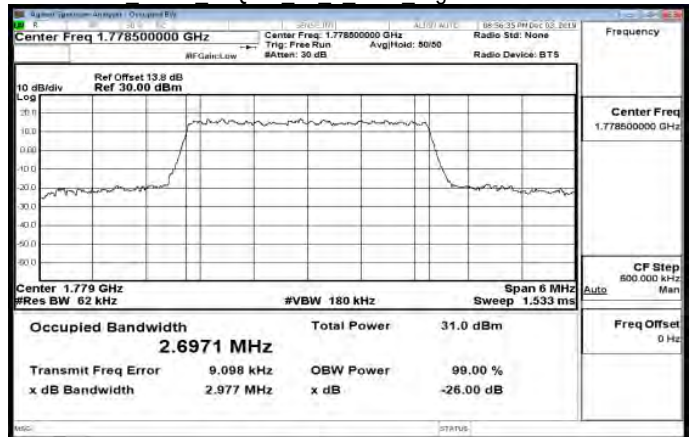
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Band66 3MHz 16QAM 15 0 Main HighCH132657-1778.5



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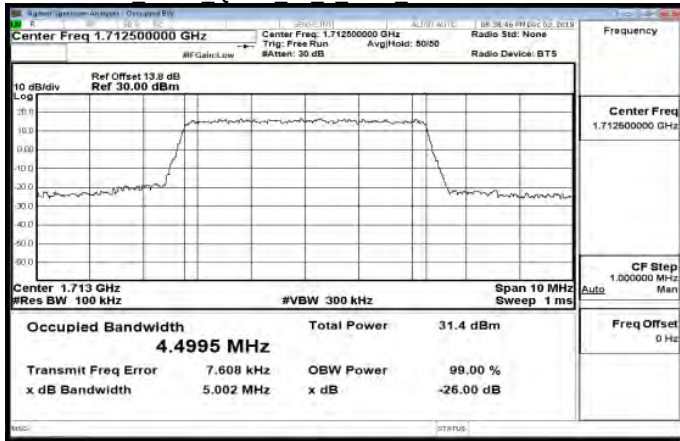
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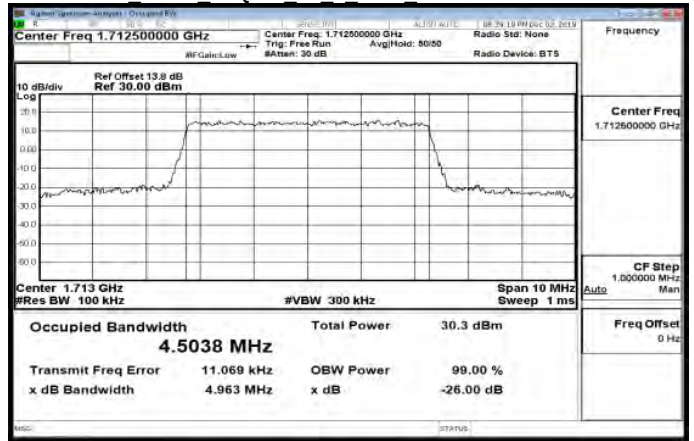
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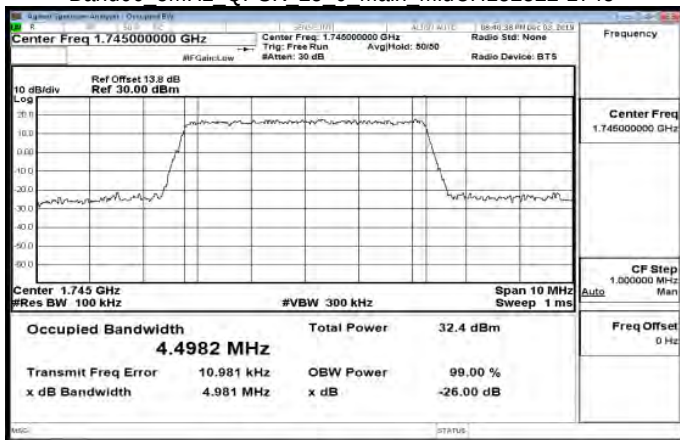
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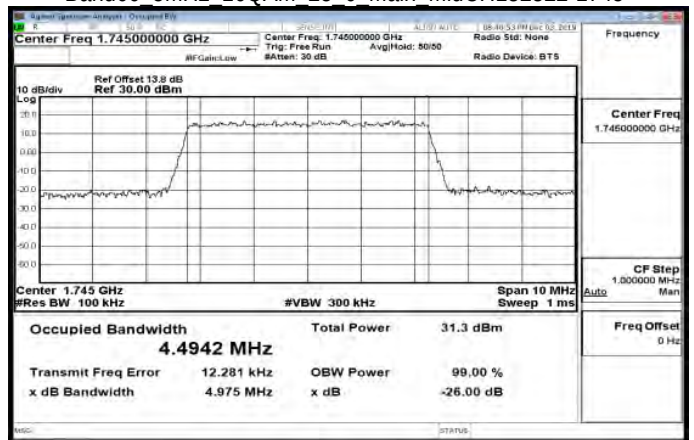
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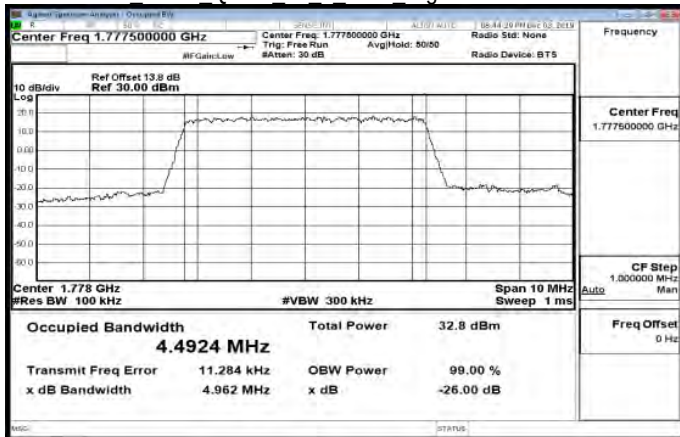
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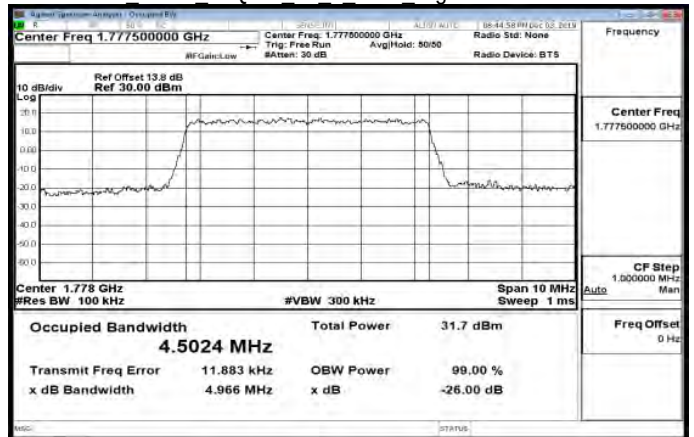
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Band66 5MHz 16QAM 25 0 Main HighCH132647-1777.5



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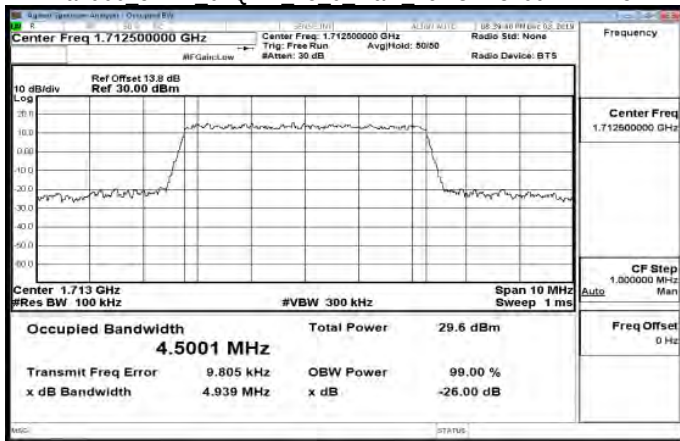
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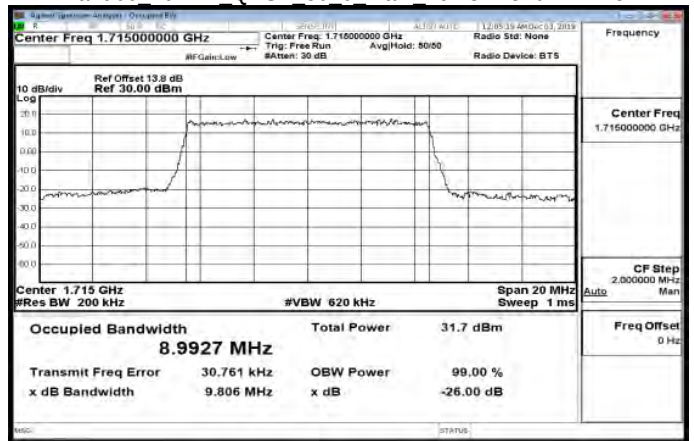
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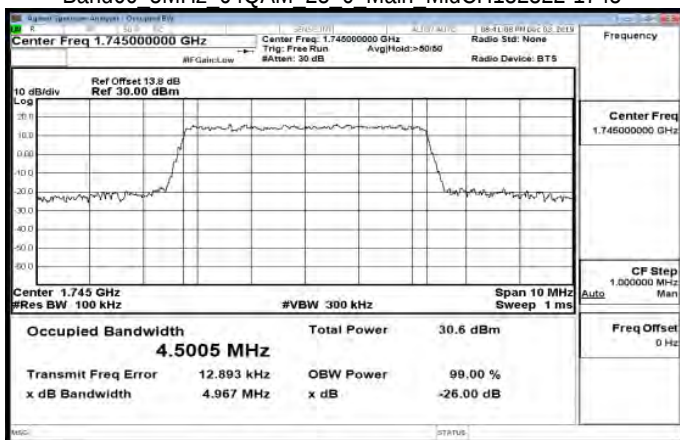
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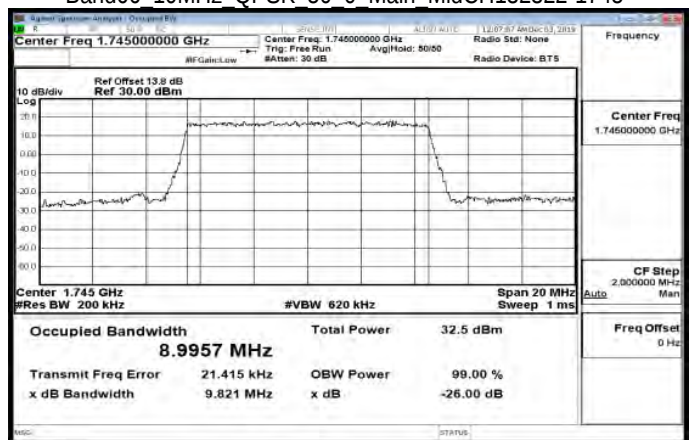
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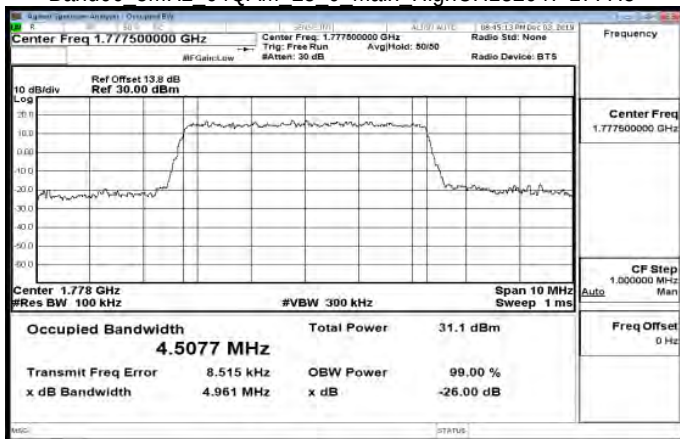
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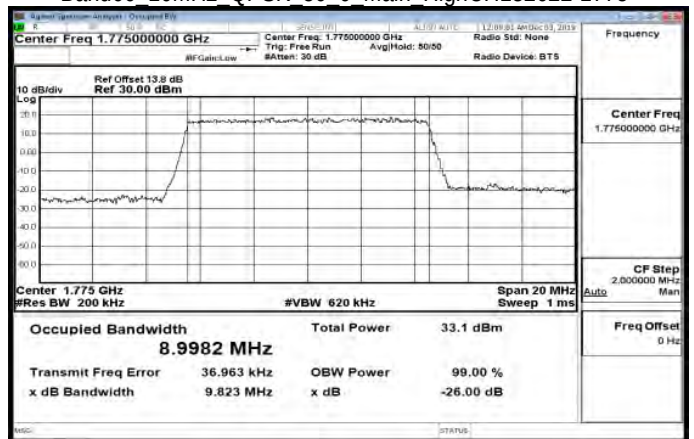
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Band66 5MHz 64QAM 25 0 Main HighCH132647-1777.5



Band66 10MHz QPSK 50 0 Main HighCH132622-1775



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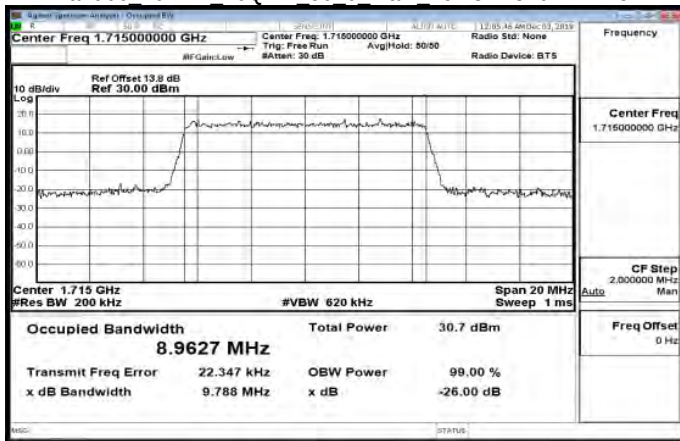
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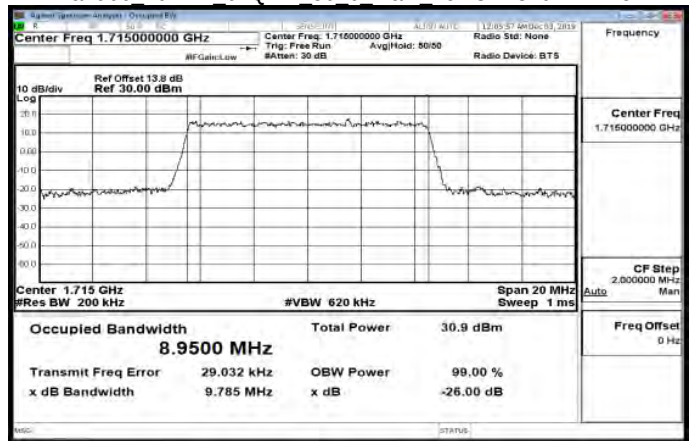
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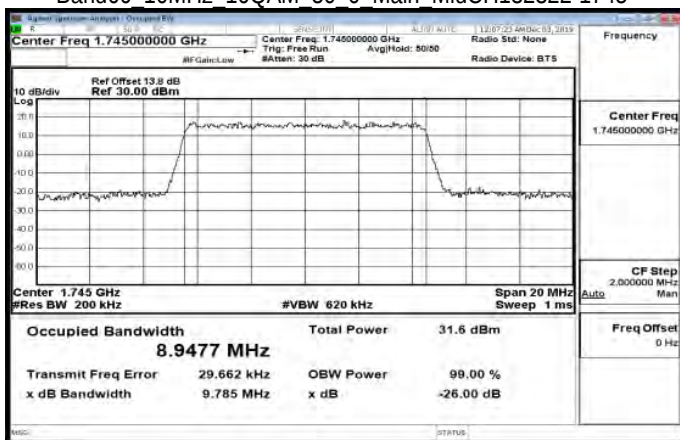
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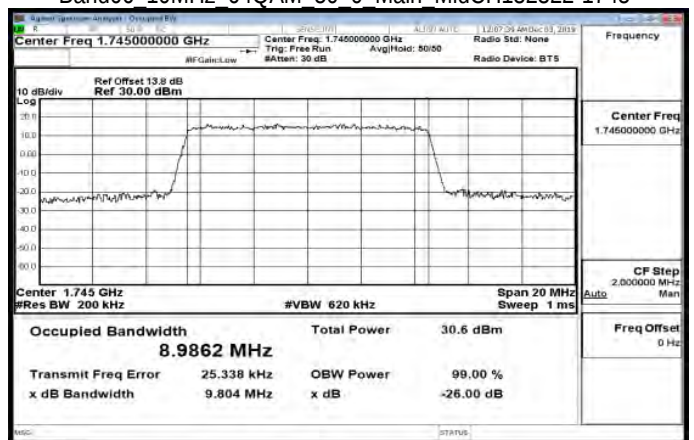
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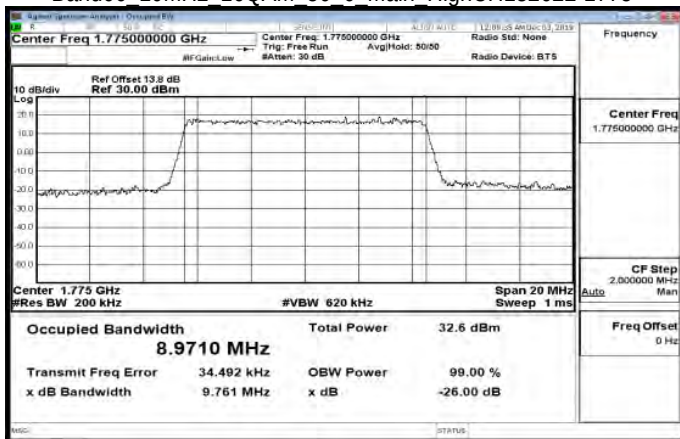
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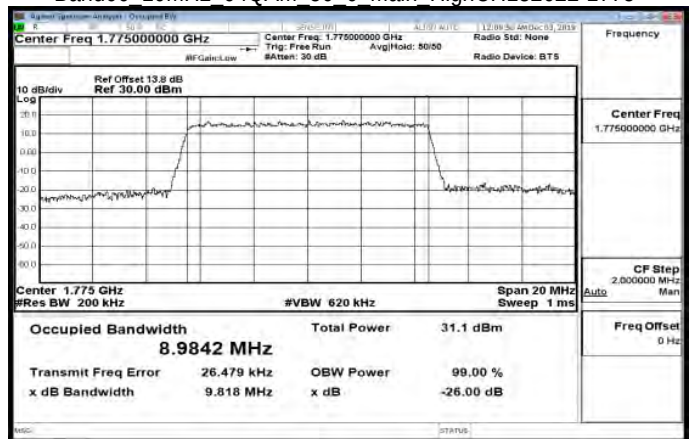
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Band66 10MHz 16QAM 50 0 Main HighCH132622-1775



Band66 10MHz 64QAM 50 0 Main HighCH132622-1775



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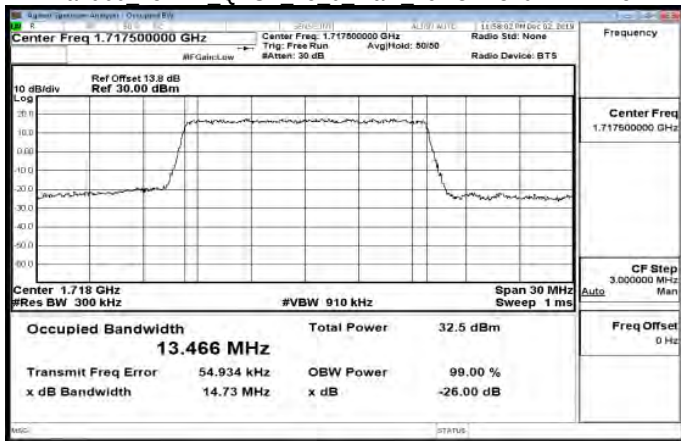
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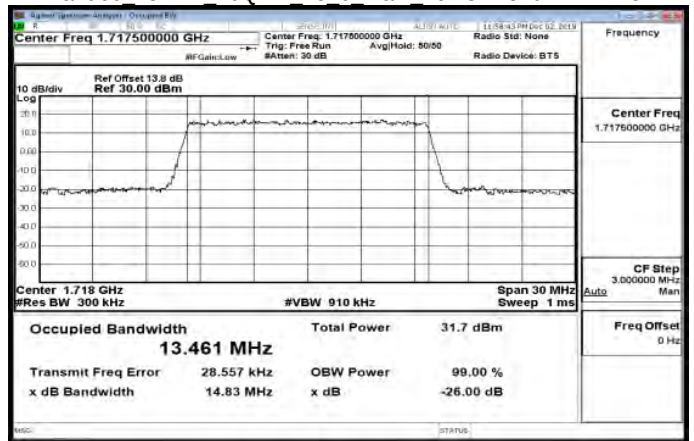
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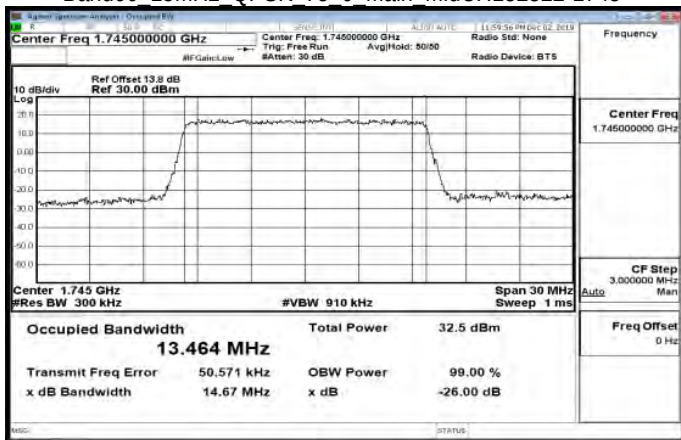
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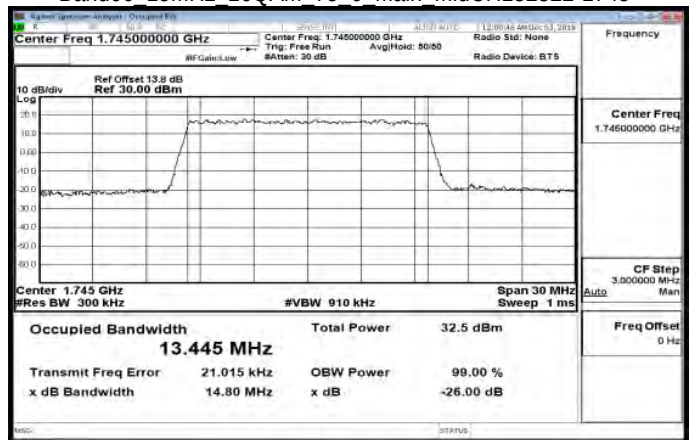
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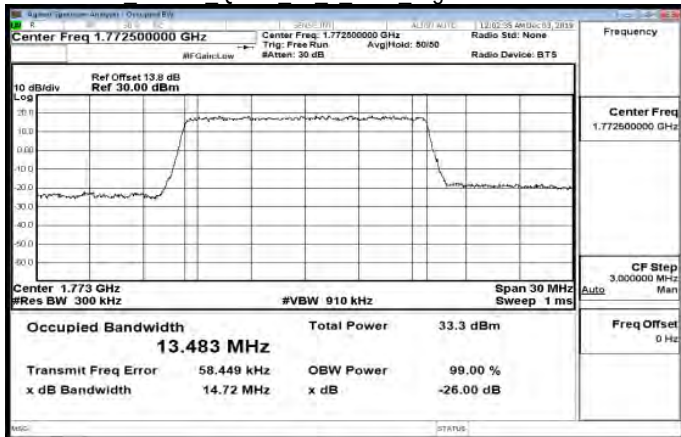
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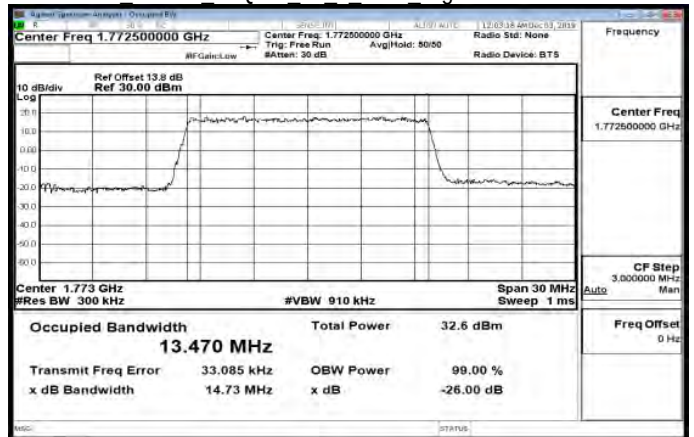
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Band66 15MHz QPSK 75 0 Main HighCH132597-1772.5



Band66 15MHz 16QAM 75 0 Main HighCH132597-1772.5



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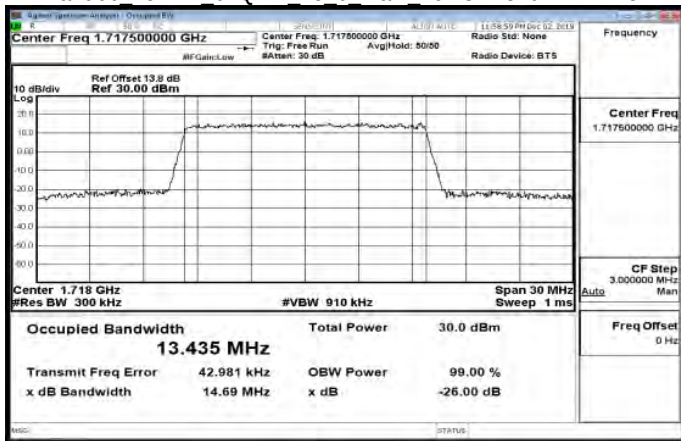
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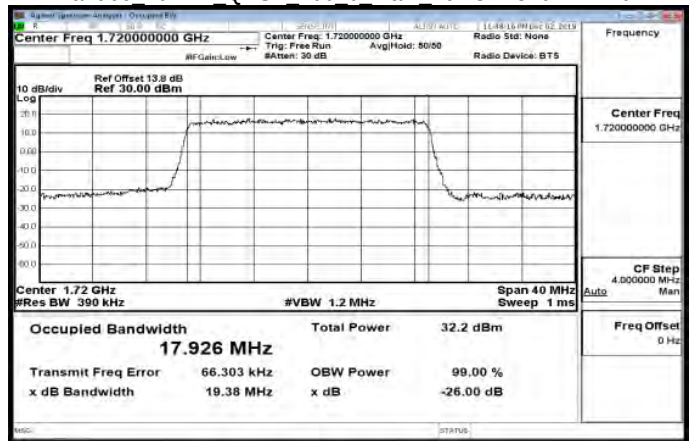
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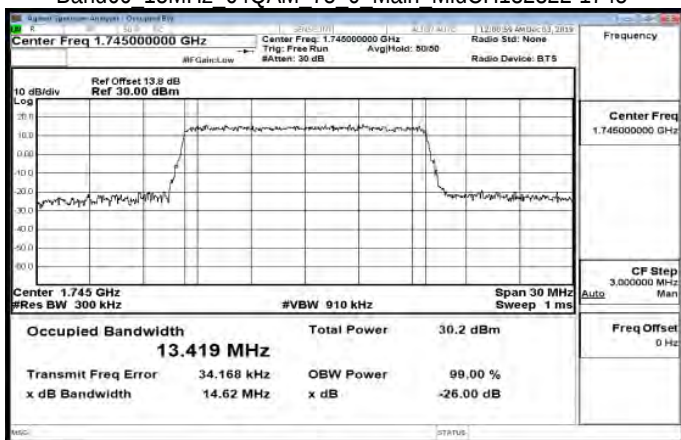
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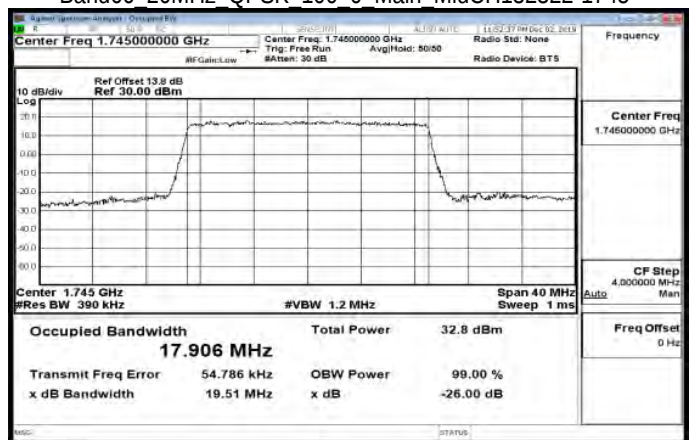
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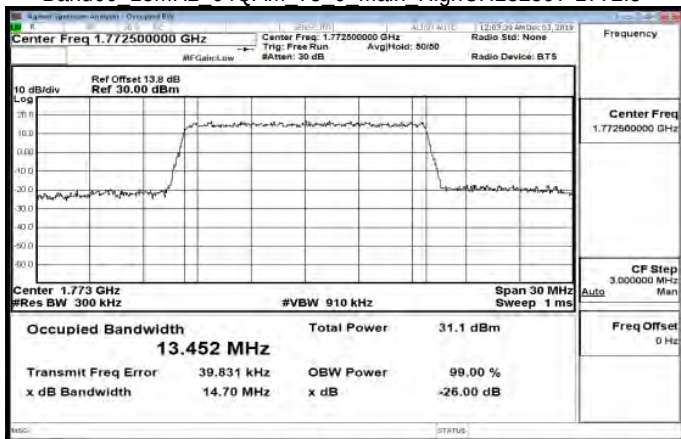
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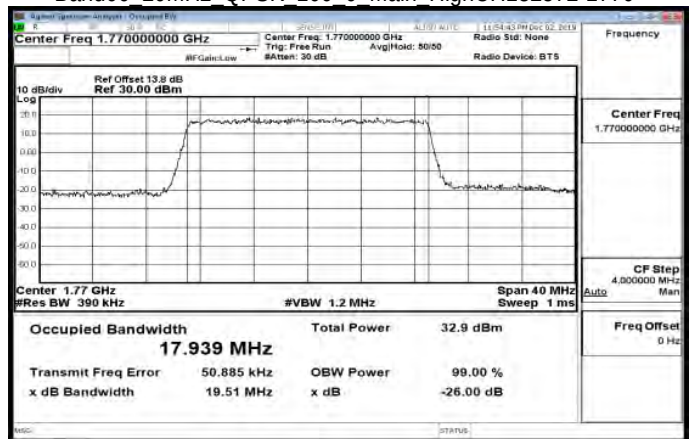
Band66 20MHz QPSK 100 0 Main MidCH132322-1745



Band66 15MHz 64QAM 75 0 Main HighCH132597-1772.5



Band66 20MHz QPSK 100 0 Main HighCH132572-1770



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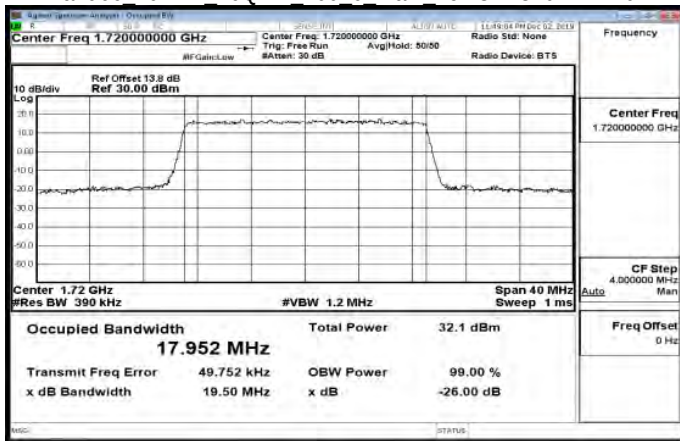
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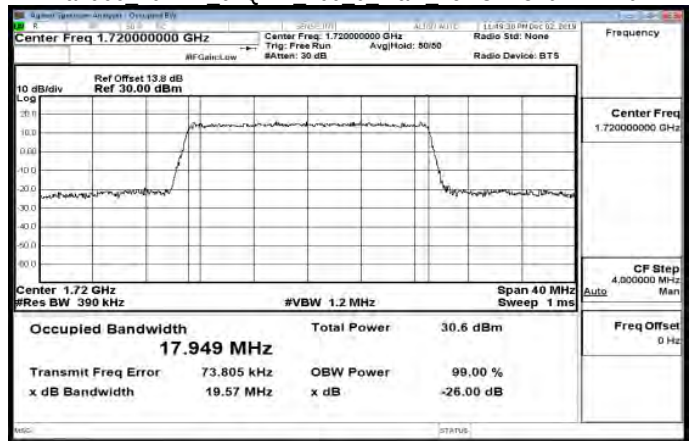
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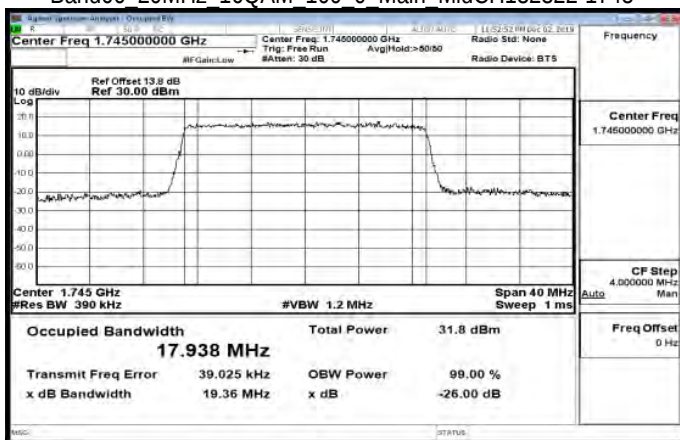
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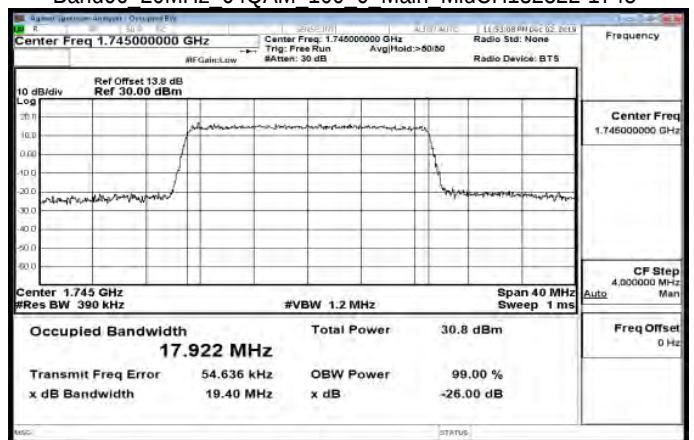
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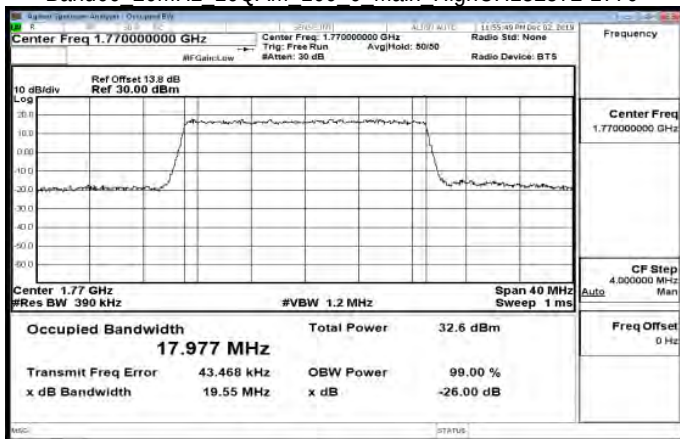
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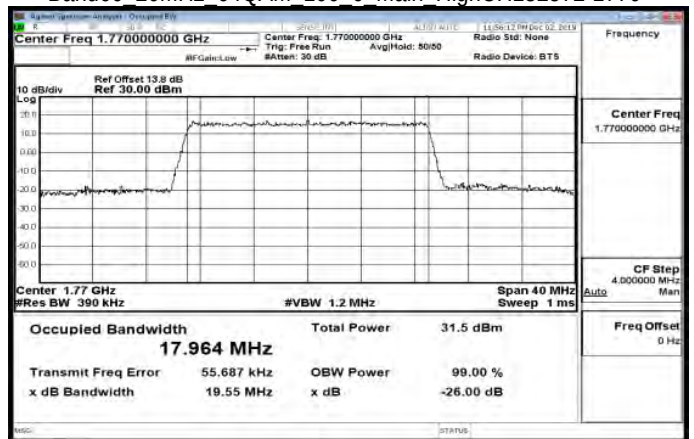
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Band66 20MHz 16QAM 100 0 Main HighCH132572-1770



Band66 20MHz 64QAM 100 0 Main HighCH132572-1770



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c) for LTE B13

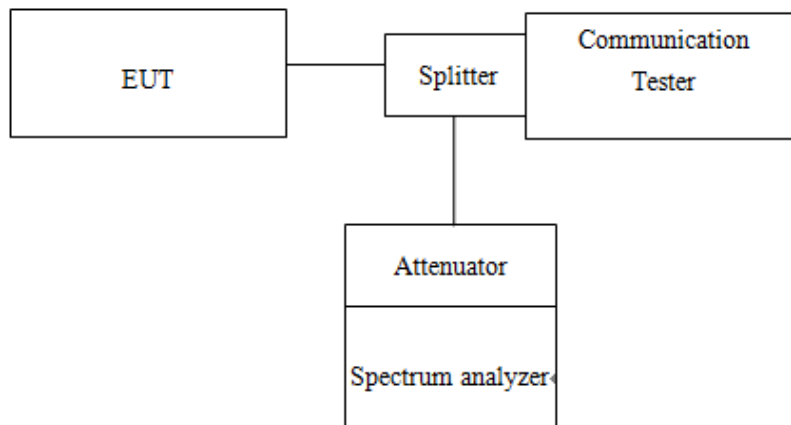
For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

FCC §27.53(h)(3) for LTE B4, 66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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8.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW $\geq$ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

8.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2019	05/30/2020
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Splitter	Marvelous	MVE8586	RF265	11/20/2019	11/19/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF207	11/20/2019	11/19/2020

8.5 Measurement Result:

Refer to next pages.

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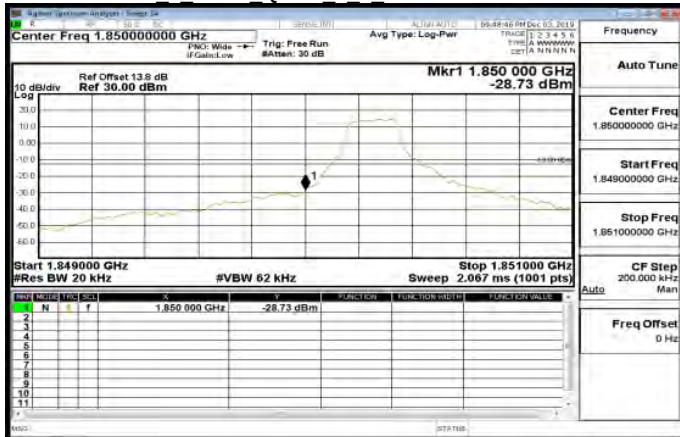
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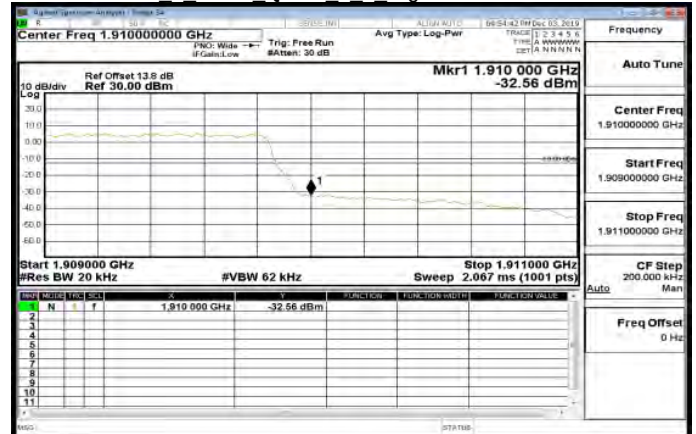
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Band Edge

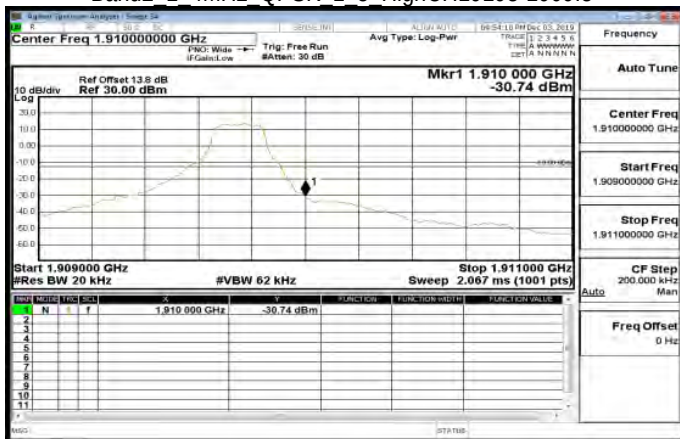
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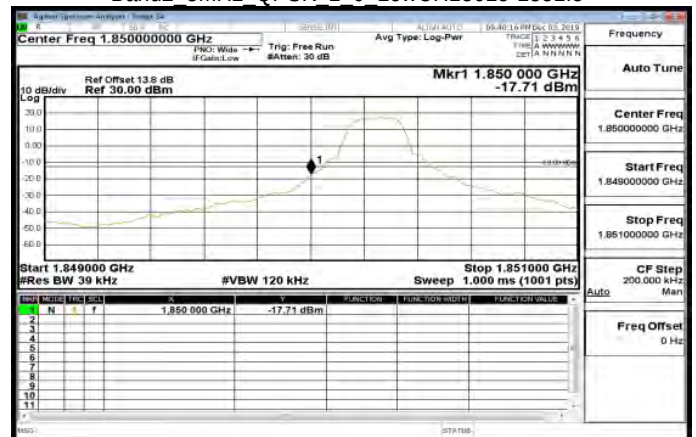
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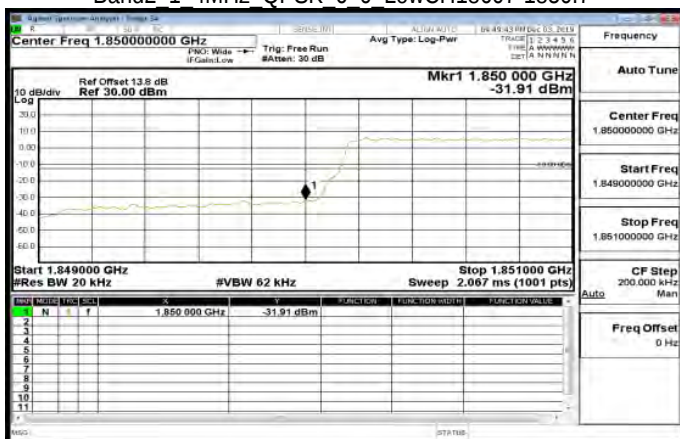
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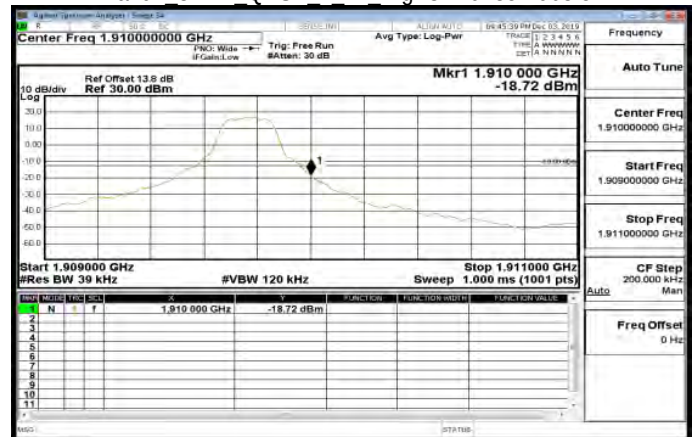
Band2 3MHz QPSK 1 0 LowCH18615-1851.5



Band2 1 4MHz QPSK 6 0 LowCH18607-1850.7



Band2 3MHz QPSK 1 14 HighCH19185-1908.5



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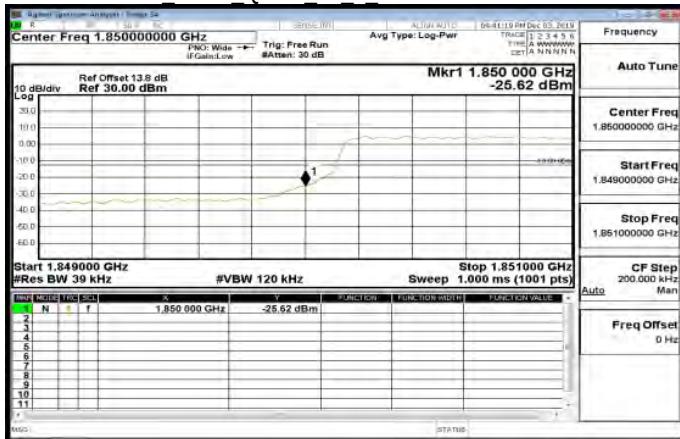
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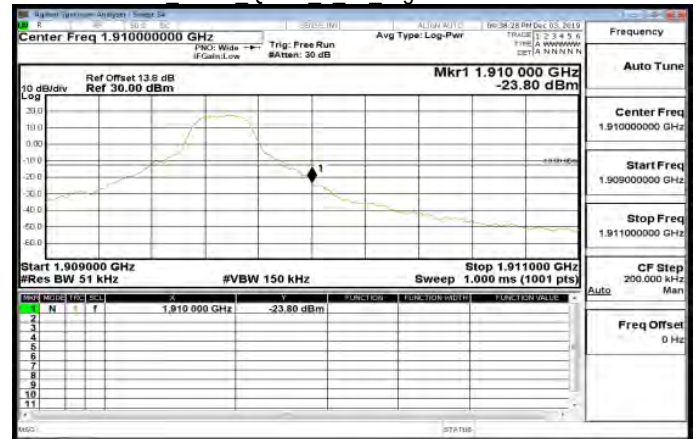
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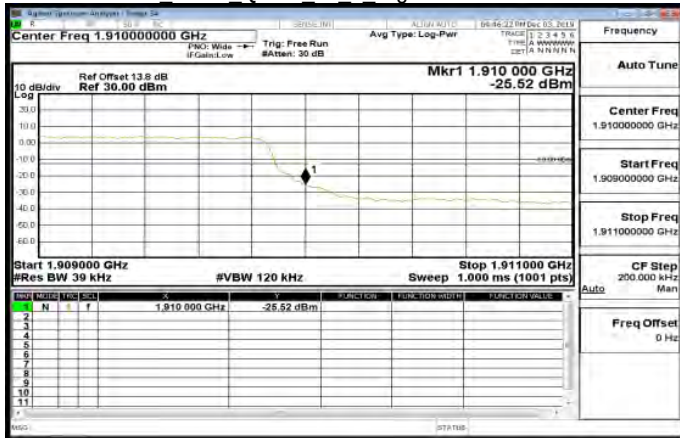
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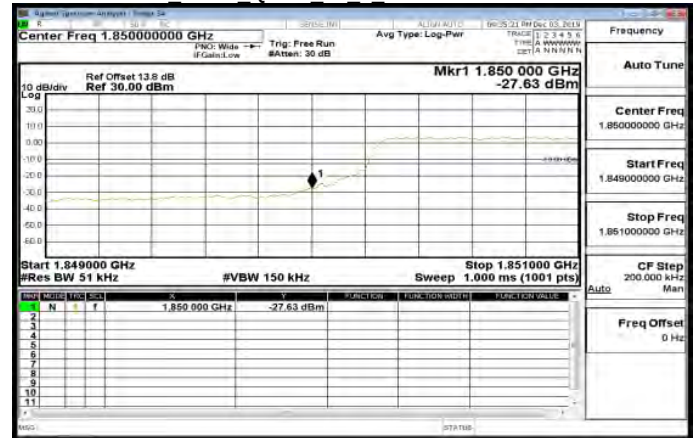
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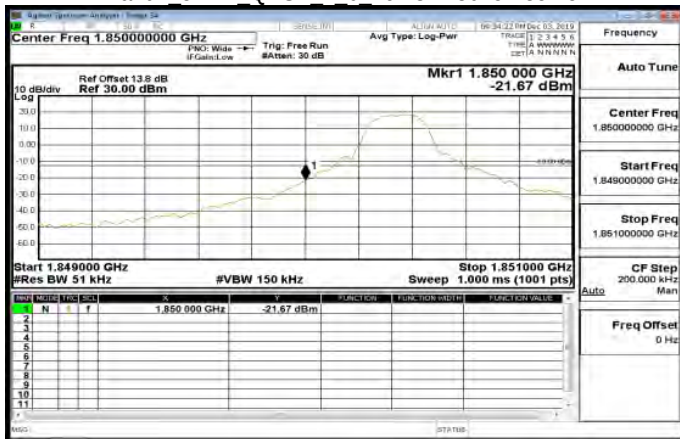
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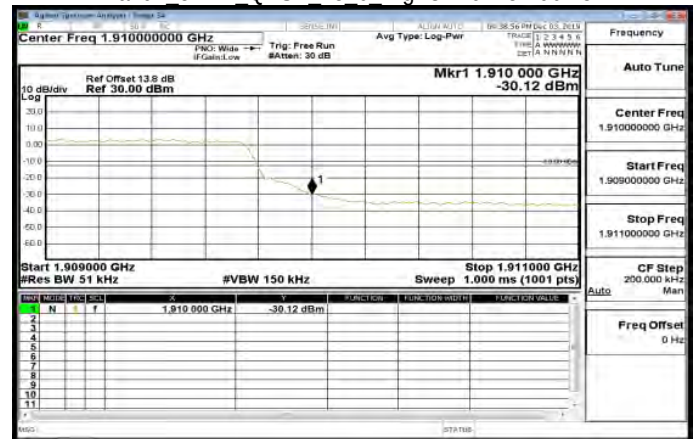
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Band2 5MHz QPSK 1 0 LowCH18625-1852.5



Band2 5MHz QPSK 25 0 HighCH19175-1907.5



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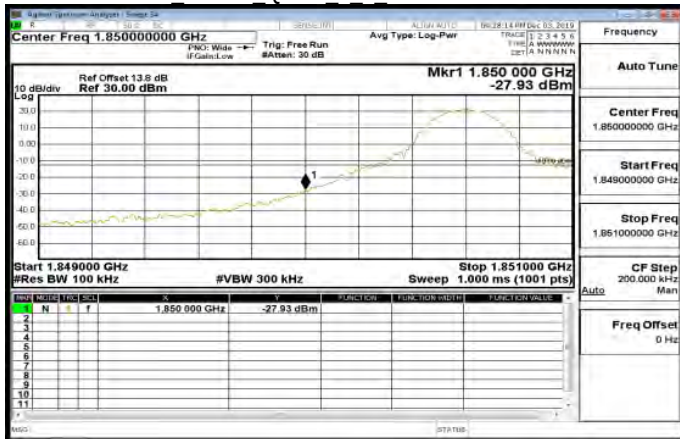
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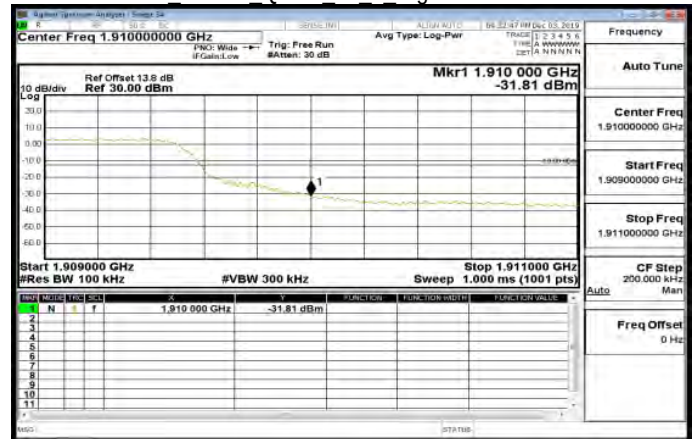
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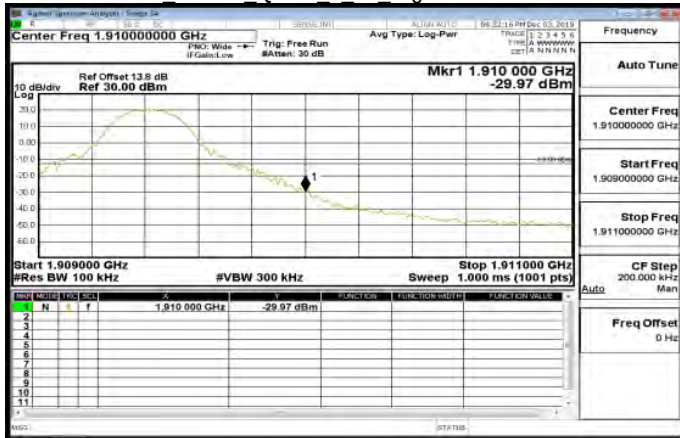
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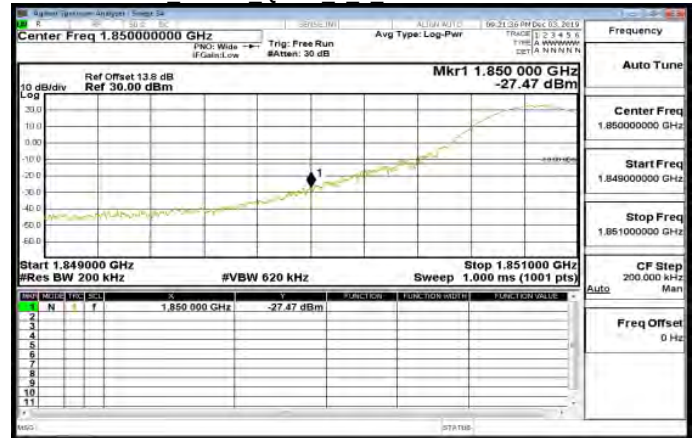
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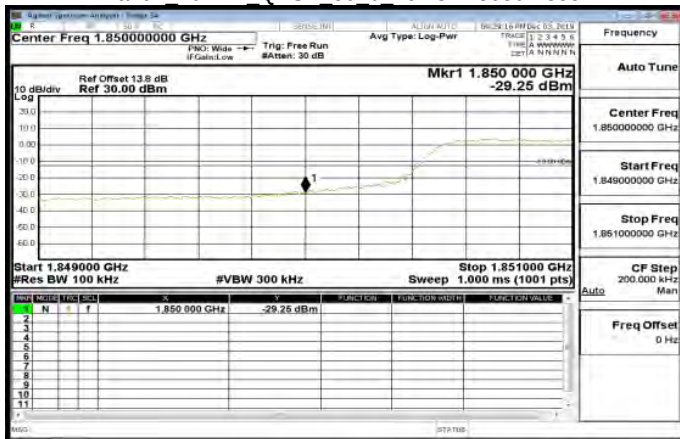
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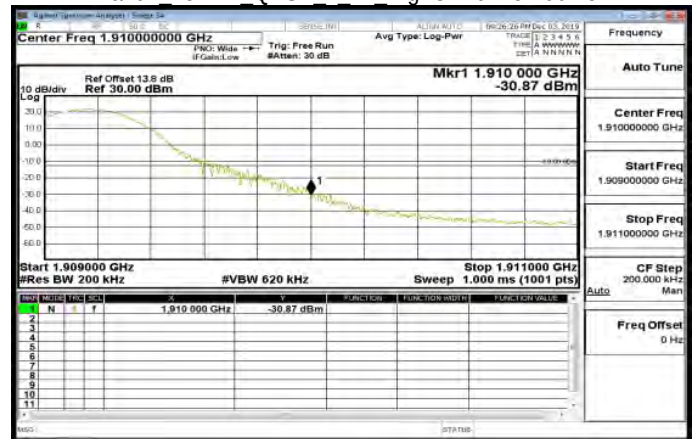
Band2 15MHz QPSK 1 0 LowCH18675-1857.5



Band2 10MHz QPSK 50 0 LowCH18650-1855



Band2 15MHz QPSK 1 74 HighCH19125-1902.5



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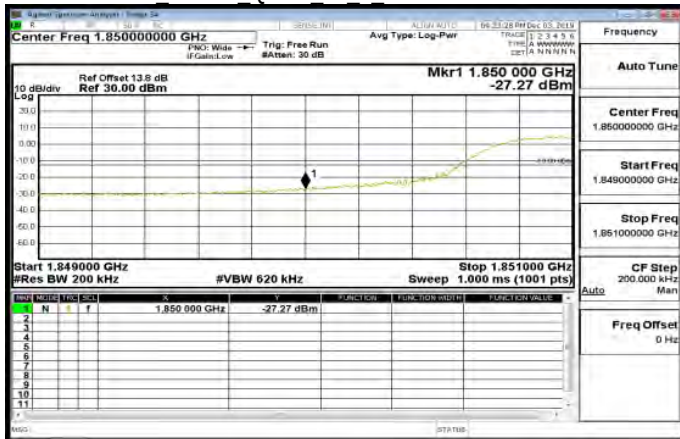
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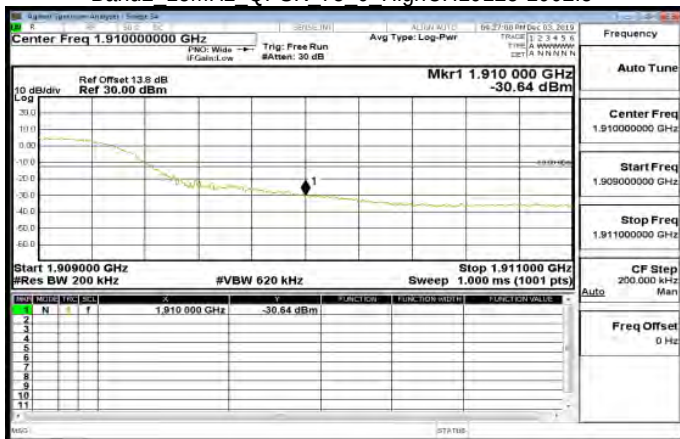
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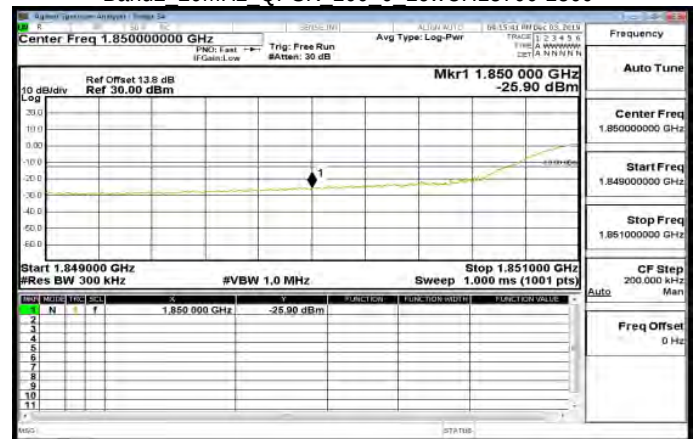
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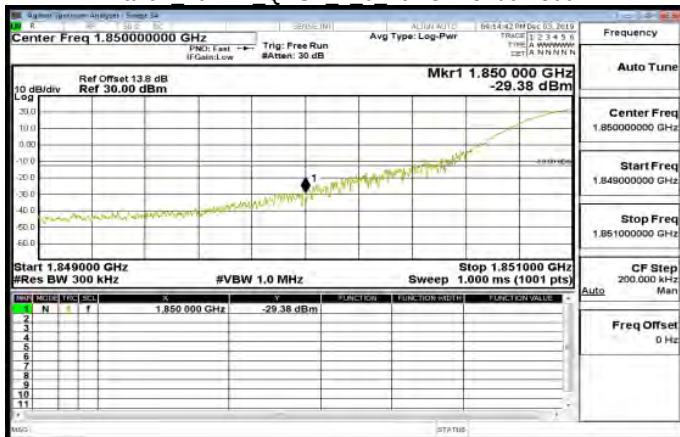
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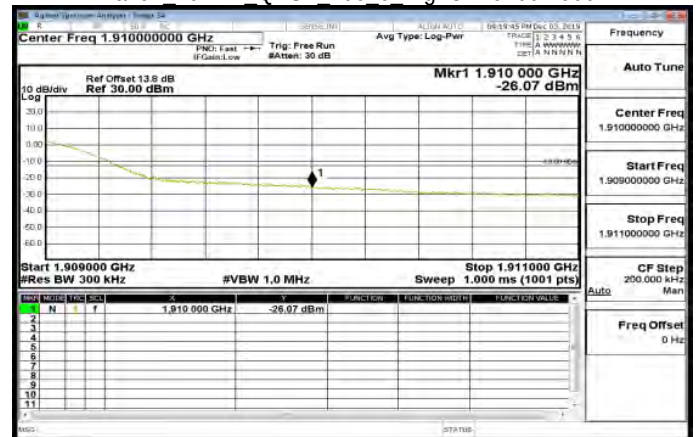
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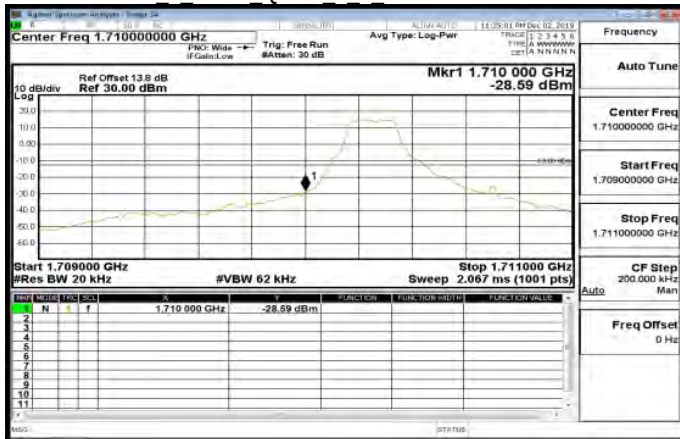
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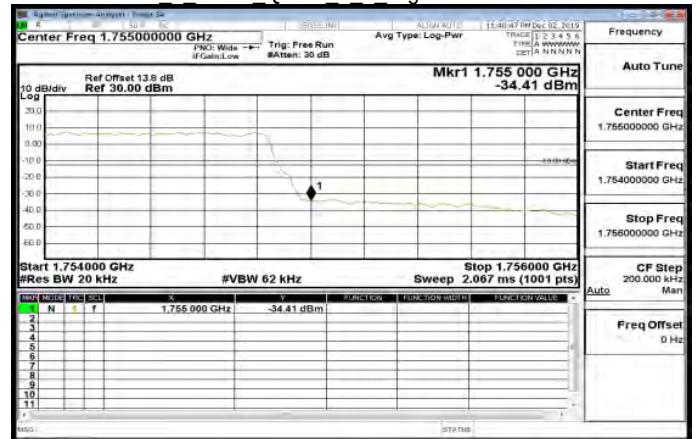
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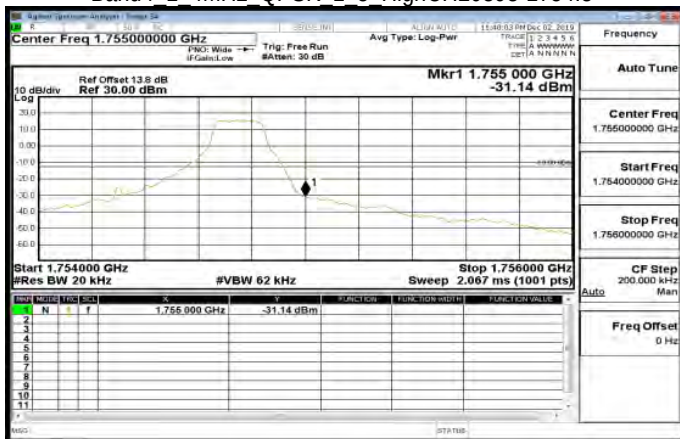
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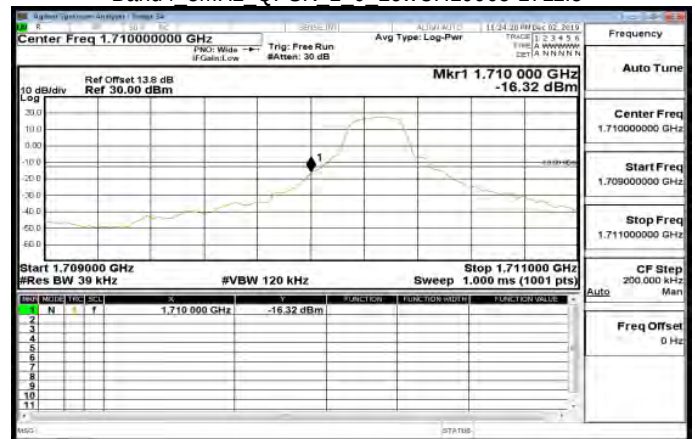
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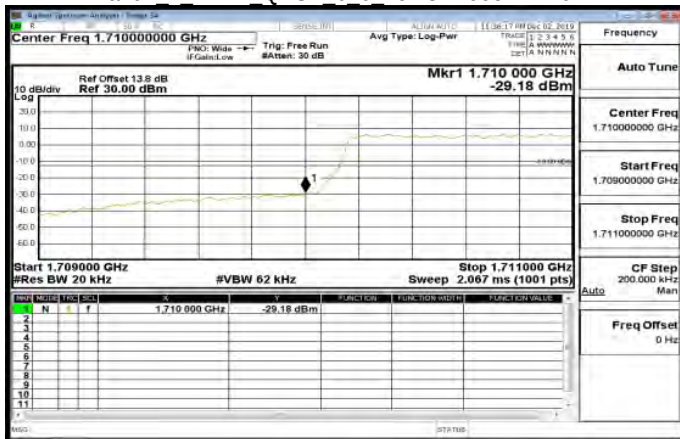
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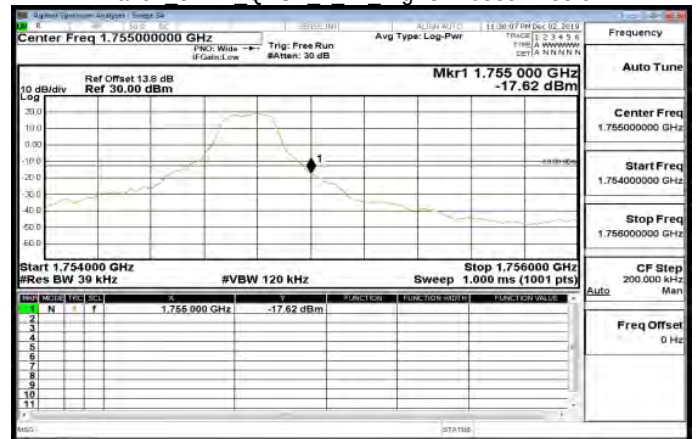
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Band4 3MHz QPSK 1 14 HighCH20385-1753.5



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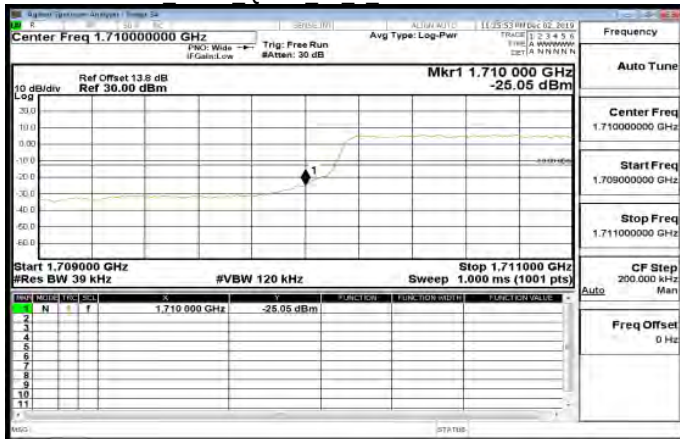
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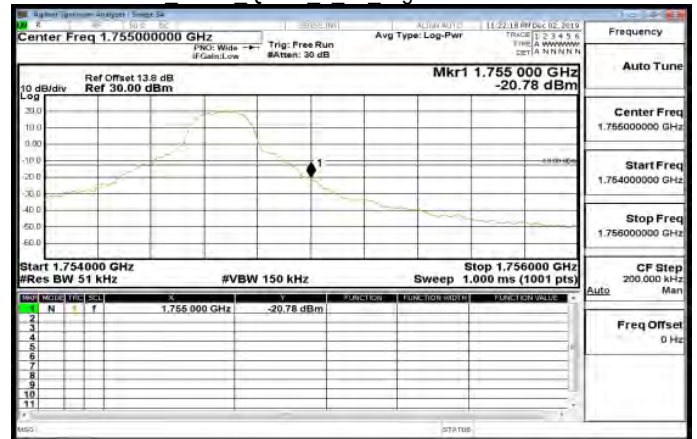
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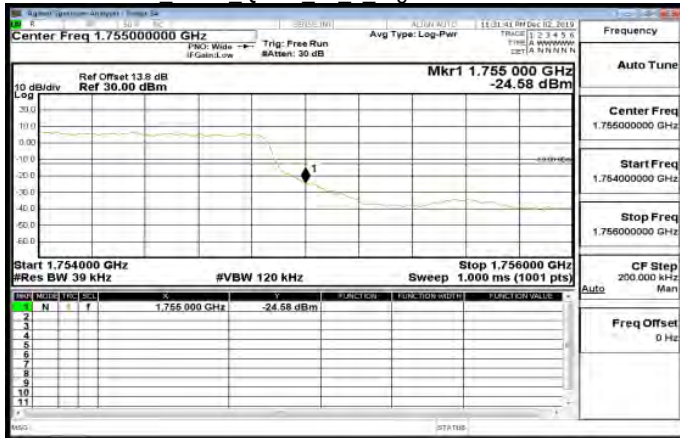
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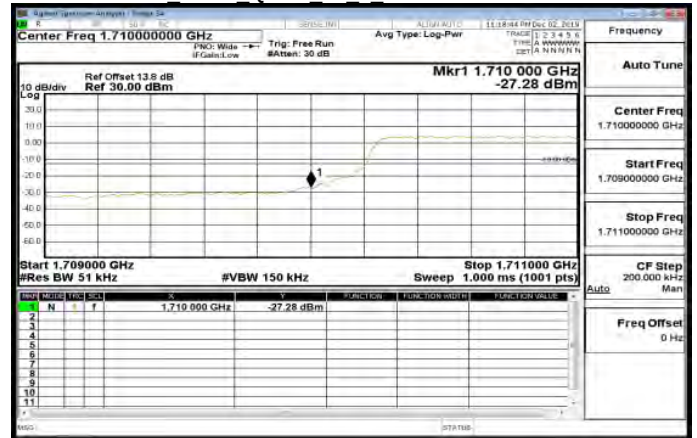
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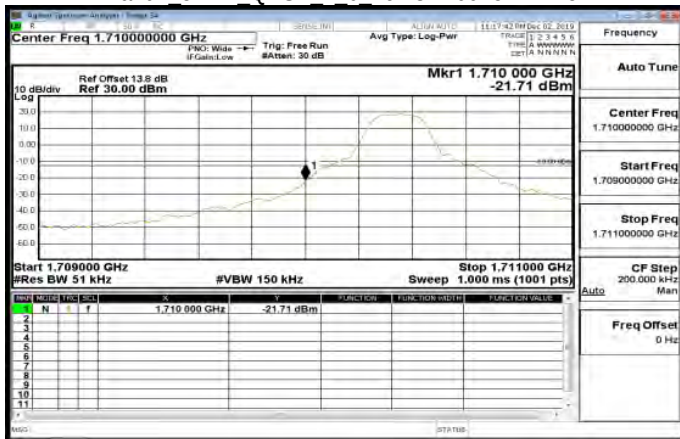
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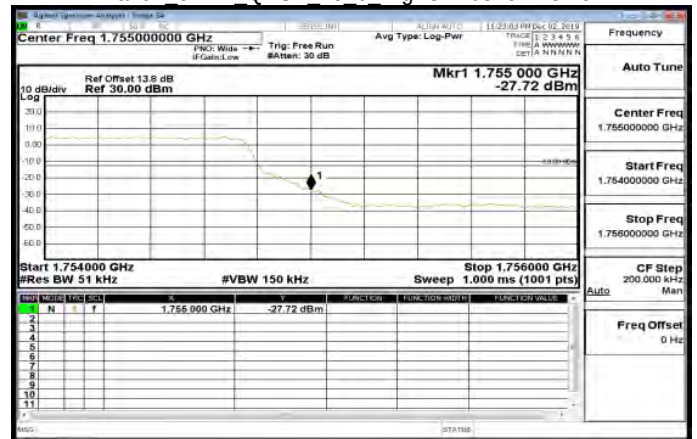
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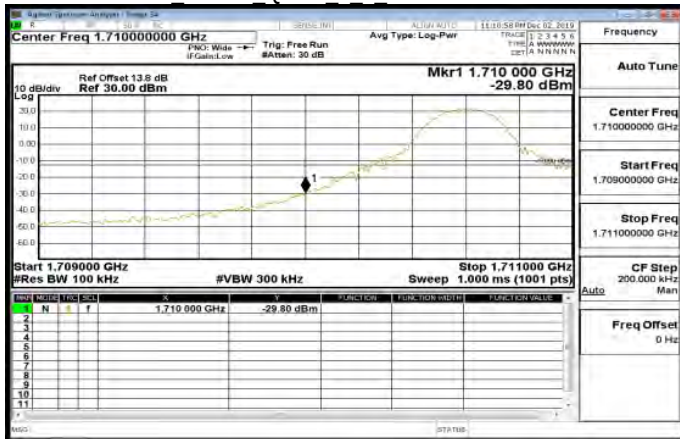
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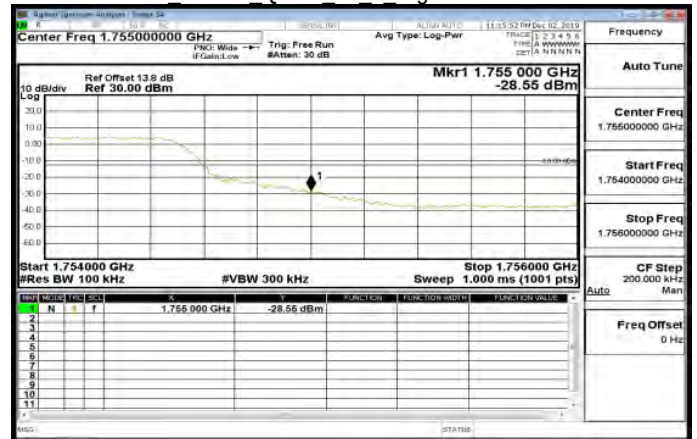
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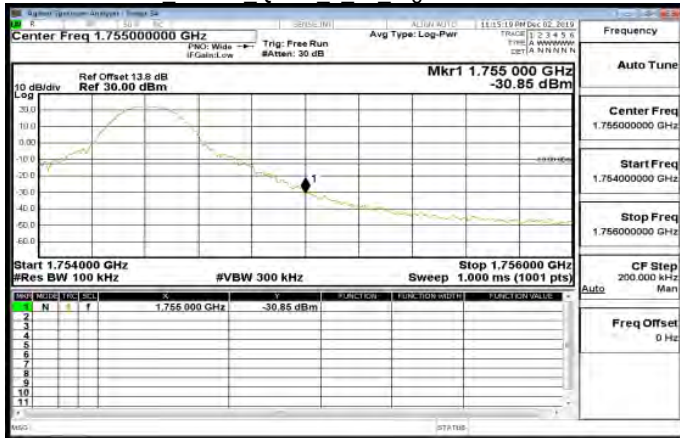
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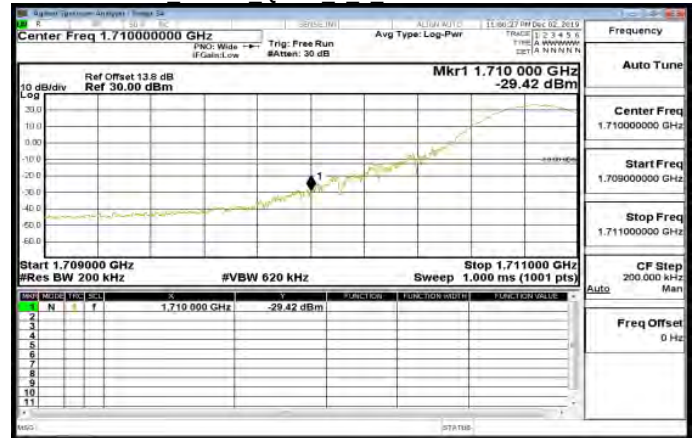
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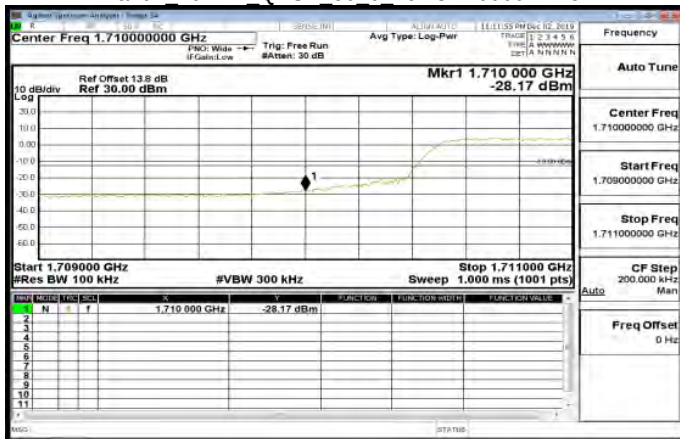
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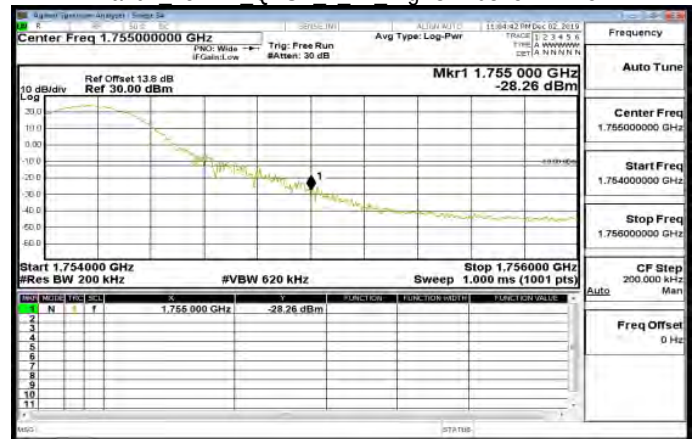
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Band4 15MHz QPSK 1 74 HighCH20325-1747.5



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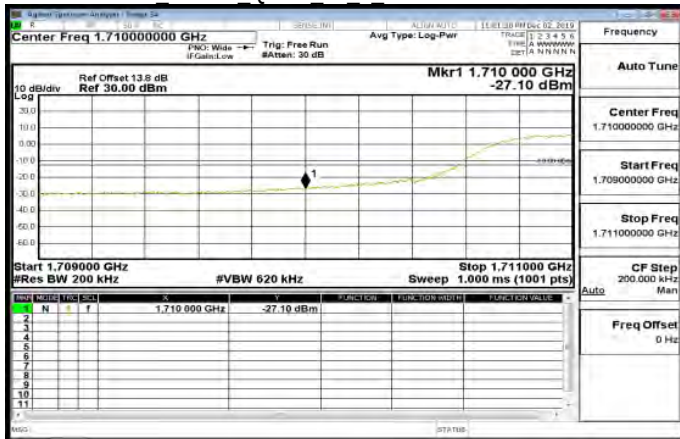
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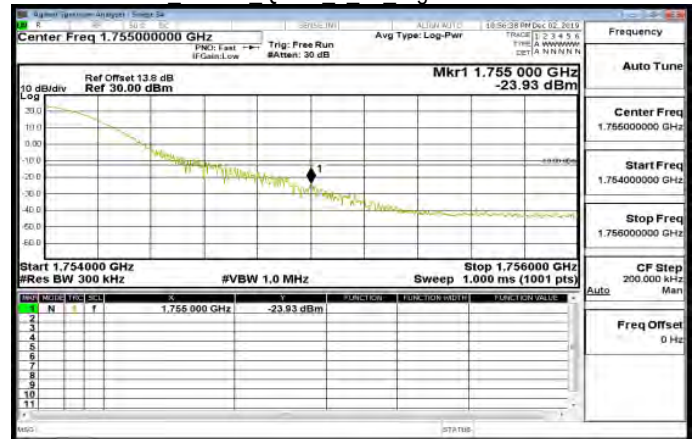
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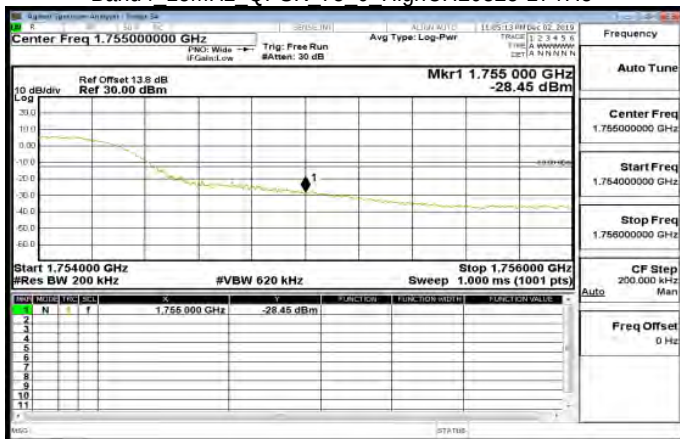
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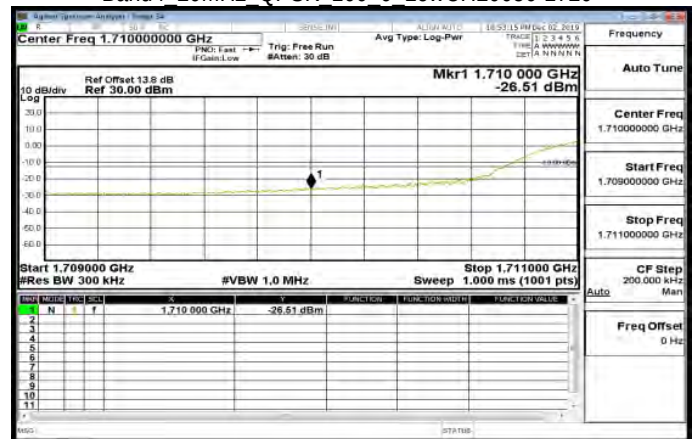
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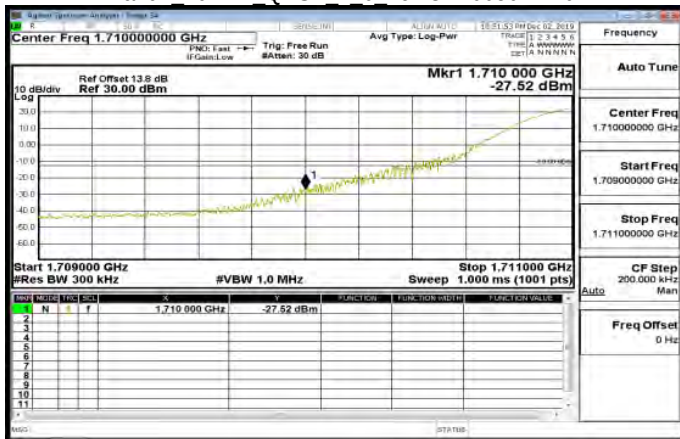
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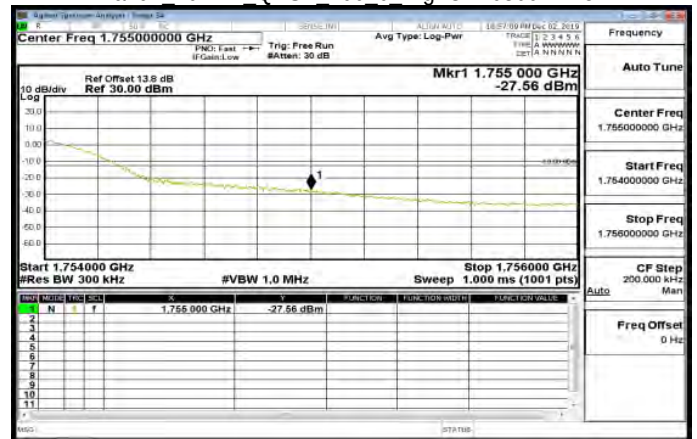
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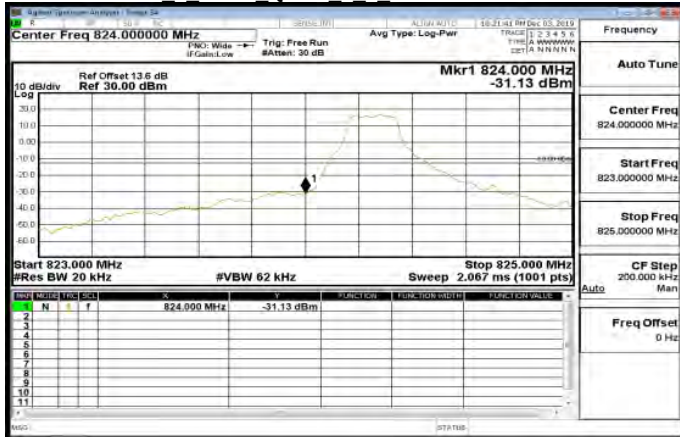
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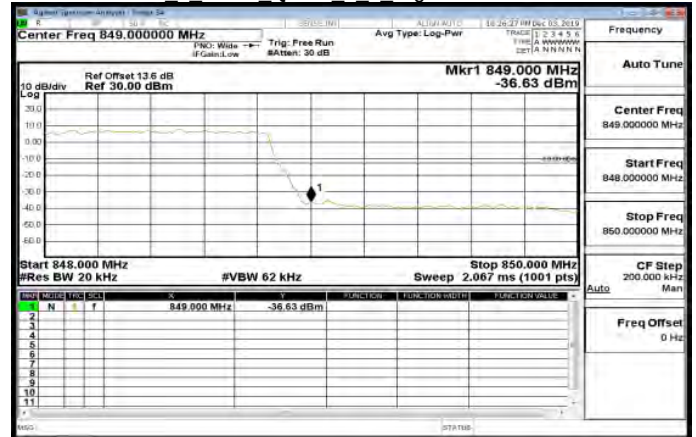
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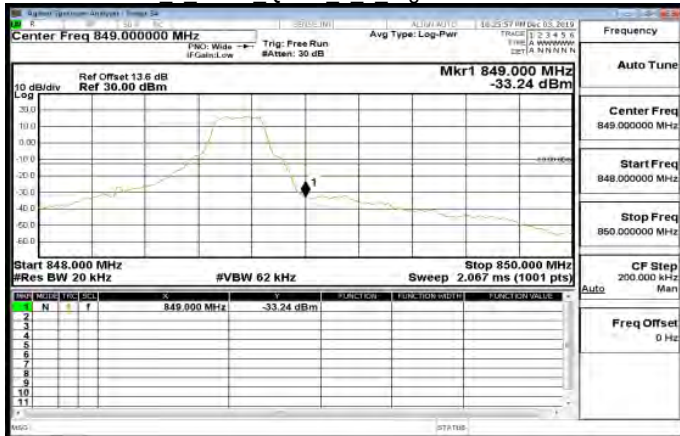
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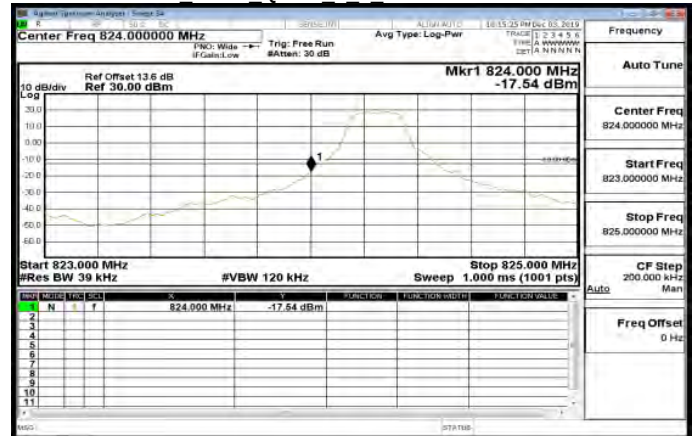
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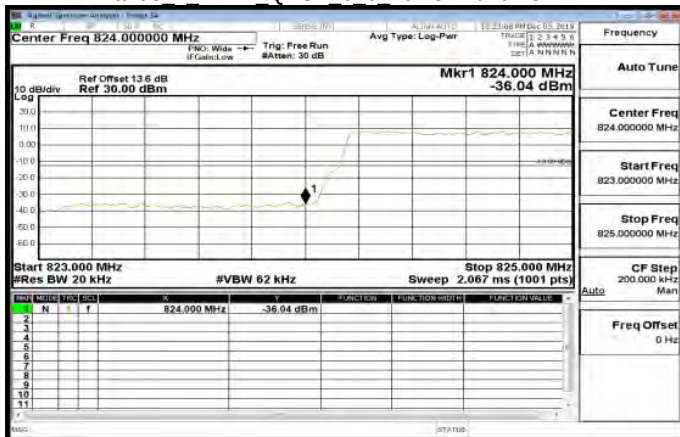
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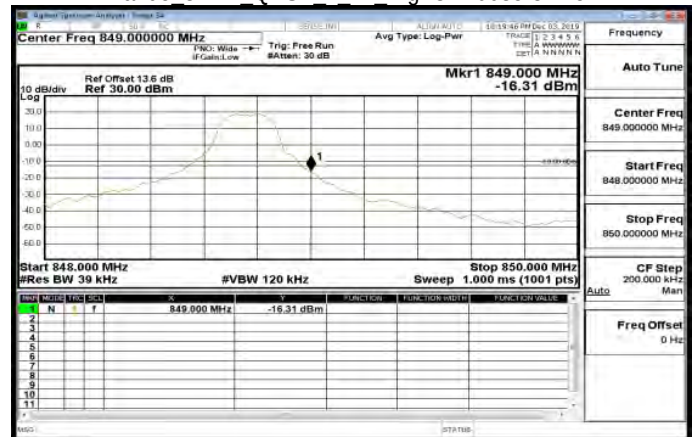
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Band5 3MHz QPSK 1 14 HighCH20635-847.5



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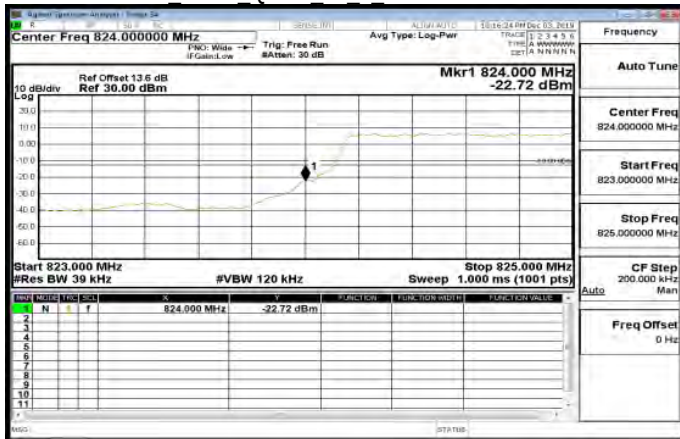
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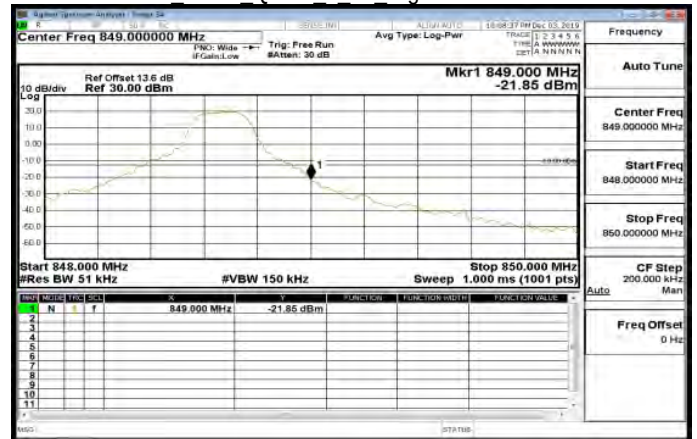
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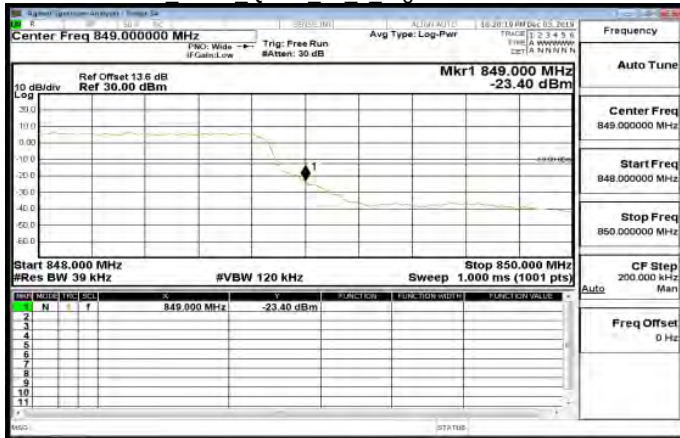
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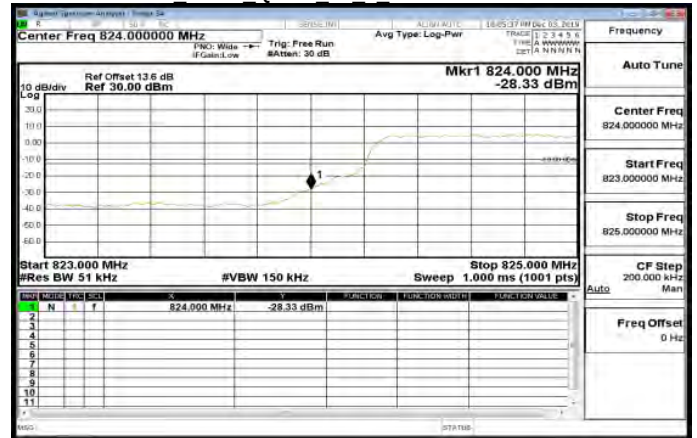
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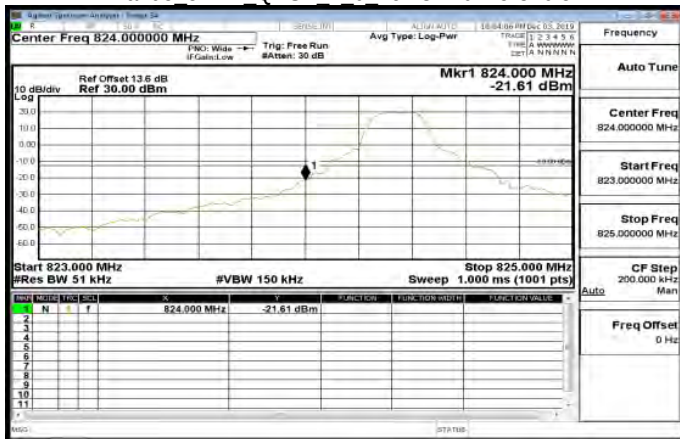
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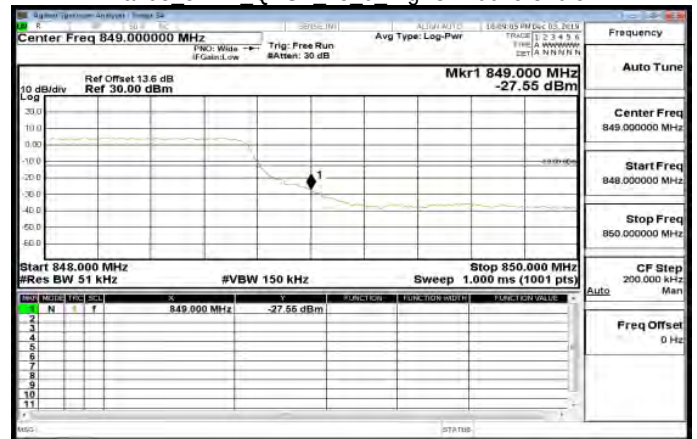
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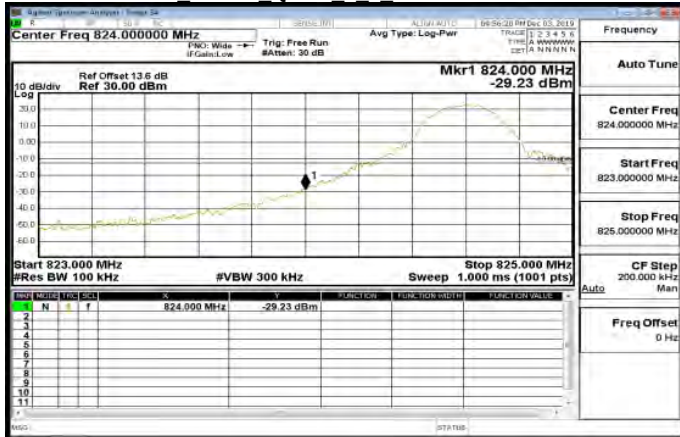
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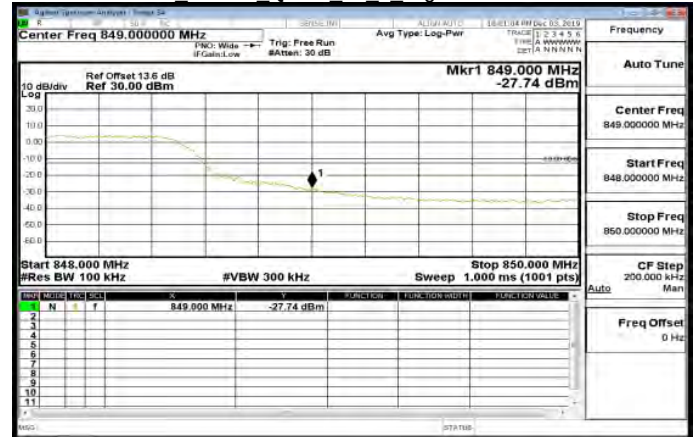
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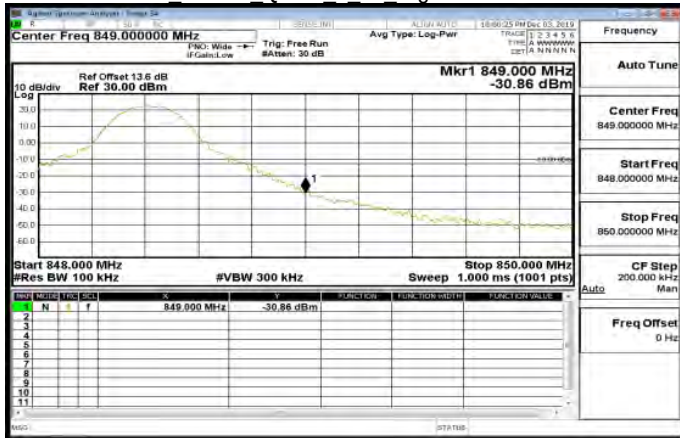
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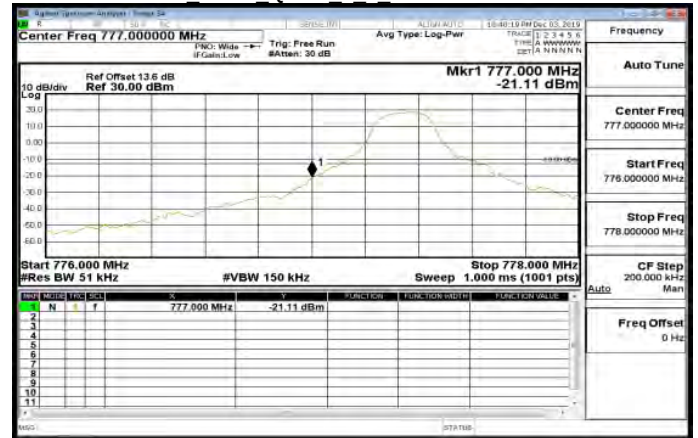
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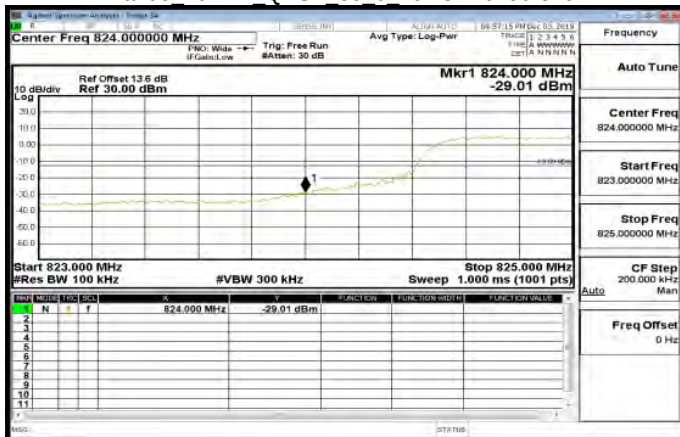
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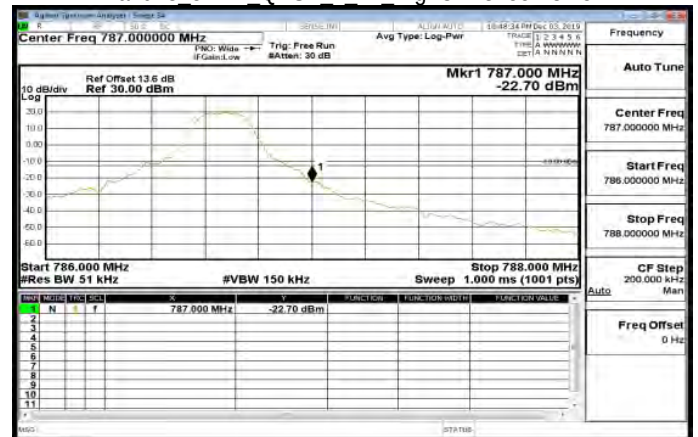
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Band5 10MHz QPSK 50 0 LowCH20450-829



Band13 5MHz QPSK 1 24 HighCH23255-784.5



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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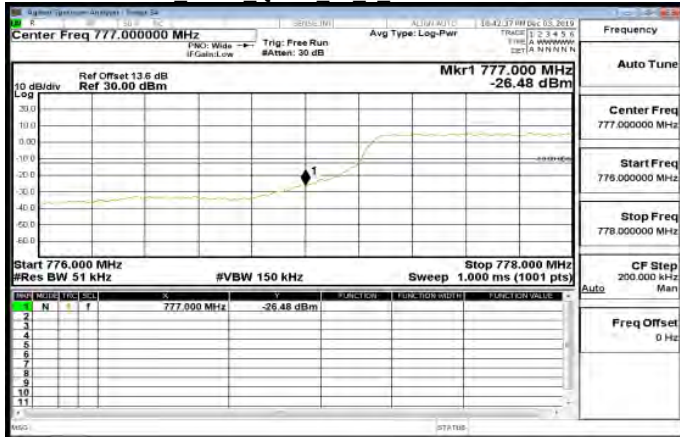
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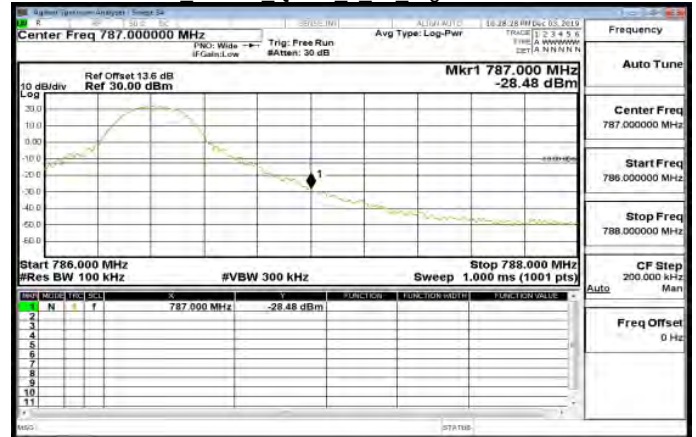
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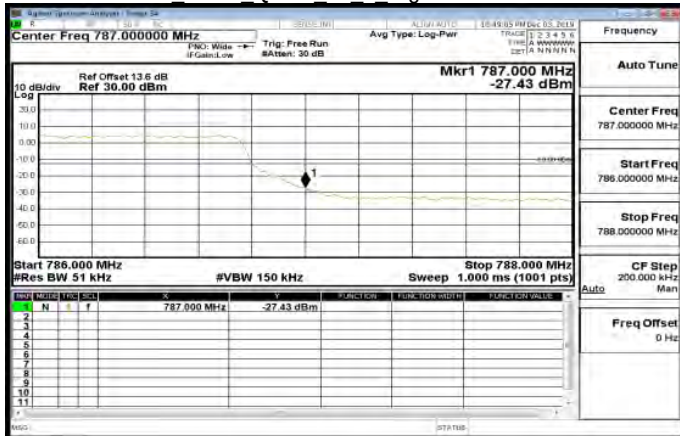
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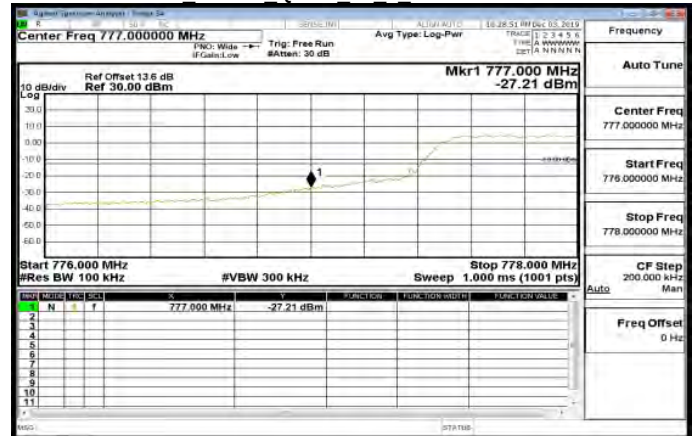
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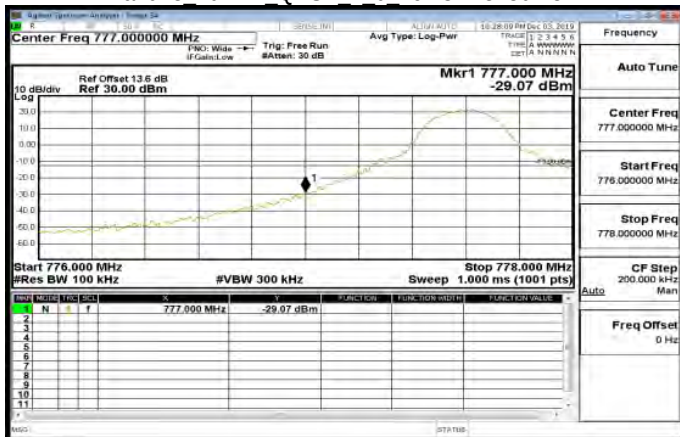
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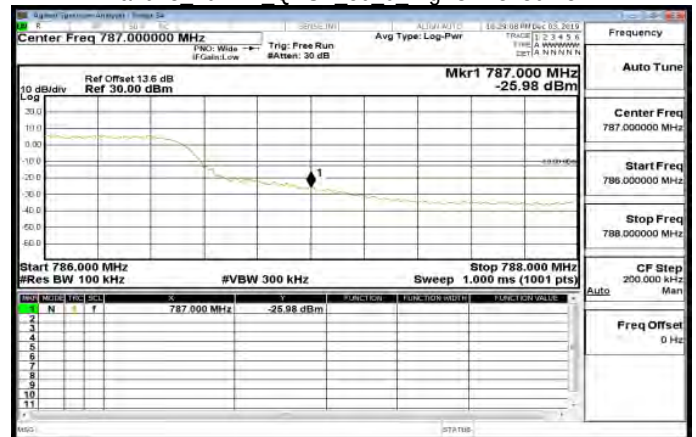
Band13 10MHz QPSK 50 0 LowCH23230-782



Band13 10MHz QPSK 1 0 LowCH23230-782



Band13 10MHz QPSK 50 0 HighCH23230-782



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