

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART
B, C & SUBPART L and PART 90S REQUIREMENT

OF

Applicant: Harman International Industries Incorporated
636, Ellis St, Mountain View, CA 94043, USA
Product Name: Sprint Drive
Brand Name: Sprint Drive
Model No.: HSA-15US-AA
Model Difference: N/A
FCC ID: 2AHPN-HSA-15US-AA
Report Number: E2/2018/70105
FCC Rule Part: 2 , 22H & 24E & 27B, C & L & 90S
Issue Date: Aug. 31, 2018
Date of Test: Aug. 10, 2018 ~ Aug. 22, 2018
Date of EUT Received: Aug. 10, 2018

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.

Tested By:

Vito Pei

Vito Pei / Sr. Enigneer

Approved By:

Jim Chang

Jim Chang / Manager



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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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/70105	Rev.00	Initial creation of document	All	Aug. 31, 2018	Yuri Tsai

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Sprint Drive
Brand Name:	Sprint Drive
Model No.:	HSA-15US-AA
Model Difference:	N/A
Hardware Version:	VS.0
Software Version:	HSA-15US_81_LA301_R03B
Power Supply:	3.7Vdc from Rechargeable Li-polymer Battery or 12Vdc from vehicle battery
IMEI:	359750090000290

Antenna Designation:

Type	Antenna Part No.	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
			LTE Band 2	1850	~	1910
FPC	N2860-BA	LTE Band 4	1710	~	1755	1
		LTE Band 5	824	~	849	0.5
		LTE Band 12	699	~	716	0.5
		LTE Band 25	1850	~	1915	1
		LTE Band 26	824	~	849	0.5
		LTE Band 26 (Part 90S)	814	~	824	0.5

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1.2. LTE: Cellular Phone Standards Frequency Range

LTE Band	BW (MHz)	Operation Frequency (MHz)			LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7	-	1909.3	25	1.4	1850.7	-	1914.3
	3	1851.5	-	1908.5		3	1851.5	-	1913.5
	5	1852.5	-	1907.5		5	1852.5	-	1912.5
	10	1855.0	-	1905.0		10	1855.0	-	1910.0
	15	1857.5	-	1902.5		15	1857.5	-	1907.5
	20	1860.0	-	1900.0		20	1860.0	-	1905.0
4	1.4	1710.7	-	1754.3	26	1.4	824.7	-	848.3
	3	1711.5	-	1753.5		3	825.5	-	847.5
	5	1712.5	-	1752.5		5	826.5	-	846.5
	10	1715.0	-	1780.0		10	829.0	-	844.0
	15	1717.5	-	1747.5		15	831.5	-	841.5
	20	1720.0	-	1745.0		1.4	814.7	-	823.3
5	1.4	824.7	-	848.3	26 Part90	3	815.5	-	822.5
	3	825.5	-	847.5		5	816.5	-	821.5
	5	826.5	-	846.5		10	819.0		
	10	829.0	-	844.0					
12	1.4	699.7	-	715.3					
	3	700.5	-	714.5					
	5	701.5	-	713.5					
	10	704.0	-	711.0					

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

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
2	1.4	QPSK	23.71	EIRP 0.235	1M10G7D
	1.4	16QAM	22.98	EIRP 0.199	1M11D7W
	1.4	64QAM	22.93	EIRP 0.196	1M11D7W
	3	QPSK	23.84	EIRP 0.242	2M72G7D
	3	16QAM	23.55	EIRP 0.226	2M72D7W
	3	64QAM	23.52	EIRP 0.225	2M72D7W
	5	QPSK	23.55	EIRP 0.226	4M53G7D
	5	16QAM	23.81	EIRP 0.191	4M52D7W
	5	64QAM	22.75	EIRP 0.188	4M53D7W
	10	QPSK	23.5	EIRP 0.224	9M00G7D
	10	16QAM	23.1	EIRP 0.204	9M01D7W
	10	64QAM	23.03	EIRP 0.202	9M01D7W
	15	QPSK	23.75	EIRP 0.237	13M5G7D
	15	16QAM	23.02	EIRP 0.2	13M5D7W
	15	64QAM	22.99	EIRP 0.199	13M5D7W
20	QPSK	23.98	EIRP 0.25	18M0G7D	
	16QAM	22.94	EIRP 0.197	18M0D7W	
	64QAM	22.92	EIRP 0.196	18M0D7W	

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
4	1.4	QPSK	24.48	EIRP 0.281	1M10G7D
	1.4	16QAM	23.46	EIRP 0.222	1M10D7W
	1.4	64QAM	23.41	EIRP 0.219	1M11D7W
	3	QPSK	24.44	EIRP 0.278	2M73G7D
	3	16QAM	23.49	EIRP 0.223	2M73D7W
	3	64QAM	23.49	EIRP 0.223	2M72D7W
	5	QPSK	24.37	EIRP 0.274	4M53G7D
	5	16QAM	23.50	EIRP 0.224	4M53D7W
	5	64QAM	23.47	EIRP 0.222	4M54D7W
	10	QPSK	24.44	EIRP 0.278	9M01G7D
	10	16QAM	23.47	EIRP 0.222	9M00D7W
	10	64QAM	23.46	EIRP 0.222	9M01D7W
	15	QPSK	24.44	EIRP 0.278	13M5G7D
	15	16QAM	23.49	EIRP 0.223	13M5D7W
	15	64QAM	23.45	EIRP 0.221	13M5D7W
20	QPSK	24.50	EIRP 0.282	18M0G7D	
	16QAM	23.46	EIRP 0.222	18M0D7W	
	64QAM	23.47	EIRP 0.222	18M0D7W	

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
5	1.4	QPSK	22.87	ERP	0.194 1M10G7D
	1.4	16QAM	22.25	ERP	0.168 1M11D7W
	1.4	64QAM	22.21	ERP	0.166 1M11D7W
	3	QPSK	22.96	ERP	0.198 2M72G7D
	3	16QAM	22.28	ERP	0.169 2M73D7W
	3	64QAM	22.15	ERP	0.164 2M72D7W
	5	QPSK	23.01	ERP	0.200 4M54G7D
	5	16QAM	22.58	ERP	0.181 4M53D7W
	5	64QAM	22.52	ERP	0.179 4M53D7W
	10	QPSK	22.88	ERP	0.194 9M01G7D
	10	16QAM	22.32	ERP	0.171 9M00D7W
	10	64QAM	22.28	ERP	0.169 9M00D7W
25	1.4	QPSK	23.08	EIRP	0.203 1M10G7D
	1.4	16QAM	22.38	EIRP	0.173 1M11D7W
	1.4	64QAM	22.36	EIRP	0.172 1M11D7W
	3	QPSK	23.25	EIRP	0.211 2M72G7D
	3	16QAM	22.57	EIRP	0.181 2M72D7W
	3	64QAM	22.53	EIRP	0.179 2M72D7W
	5	QPSK	23.25	ERP	0.211 4M53G7D
	5	16QAM	22.87	ERP	0.194 4M53D7W
	5	64QAM	22.83	ERP	0.192 4M52D7W
	10	QPSK	23.29	ERP	0.213 9M02G7D
	10	16QAM	22.83	ERP	0.192 9M01D7W
	10	64QAM	22.77	ERP	0.189 9M01D7W
	15	QPSK	23.31	ERP	0.214 13M5G7D
	15	16QAM	23.02	ERP	0.2 13M5D7W
	15	64QAM	22.97	ERP	0.198 13M5D7W
	20	QPSK	23.46	ERP	0.222 18M0G7D
	20	16QAM	22.88	ERP	0.194 18M0D7W
	20	64QAM	22.81	ERP	0.191 18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
12	1.4	QPSK	23.16	ERP	0.207 1M11G7D
	1.4	16QAM	22.38	ERP	0.173 1M11D7W
	1.4	64QAM	22.35	ERP	0.172 1M10D7W
	3	QPSK	23.05	ERP	0.202 2M72G7D
	3	16QAM	22.74	ERP	0.188 2M72D7W
	3	64QAM	22.69	ERP	0.186 2M72D7W
	5	QPSK	23.09	ERP	0.204 4M54G7D
	5	16QAM	22.89	ERP	0.195 4M52D7W
	5	64QAM	22.83	ERP	0.192 4M53D7W
	10	QPSK	23.18	ERP	0.208 9M02G7D
	10	16QAM	22.74	ERP	0.188 9M04D7W
	10	64QAM	22.66	ERP	0.185 9M04D7W
26	1.4	QPSK	22.92	ERP	0.196 1M10G7D
	1.4	16QAM	22.26	ERP	0.168 1M10D7W
	1.4	64QAM	22.33	ERP	0.171 1M10D7W
	3	QPSK	23.04	ERP	0.201 2M72G7D
	3	16QAM	22.45	ERP	0.176 2M70D7W
	3	64QAM	22.34	ERP	0.171 2M71D7W
	5	QPSK	23.00	ERP	0.2 4M53G7D
	5	16QAM	22.52	ERP	0.179 4M52D7W
	5	64QAM	22.45	ERP	0.176 4M51D7W
	10	QPSK	23.05	ERP	0.202 8M99G7D
	10	16QAM	22.43	ERP	0.175 9M02D7W
	10	64QAM	22.38	ERP	0.173 9M01D7W
	15	QPSK	23.06	ERP	0.202 13M5G7D
	15	16QAM	22.43	ERP	0.175 13M5D7W
	15	64QAM	22.37	ERP	0.173 13M5D7W

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26 Part90	1.4	QPSK	22.98	ERP	0.199 1M11G7D
	1.4	16QAM	21.96	ERP	0.157 1M11D7W
	1.4	64QAM	22.11	ERP	0.163 1M11D7W
	3	QPSK	23.11	ERP	0.205 2M72G7D
	3	16QAM	22.14	ERP	0.164 2M73D7W
	3	64QAM	21.93	ERP	0.156 2M72D7W
	5	QPSK	24.02	ERP	0.252 4M54G7D
	5	16QAM	22.86	ERP	0.193 4M54D7W
	5	64QAM	23.07	ERP	0.203 4M53D7W
	10	QPSK	23.13	ERP	0.206 9M01G7D
	10	16QAM	21.94	ERP	0.156 9M10D7W
	10	64QAM	21.81	ERP	0.152 9M02D7W

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1.4. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

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

Note: All test items have been performed and record as per the above standards.

1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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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

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn 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)

According to measurement procured ANSI C63.26-2015, The EUT is placed on as 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.

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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)	4.1	10	14.1

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2	12V	0.208
LTE Band 4		0.232
LTE Band 5		0.221
LTE Band 12		0.213
LTE Band 25		0.211
LTE Band 26		0.212
LTE Band 26 (Part 90S)		0.207

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2.6. Configuration of Tested System

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

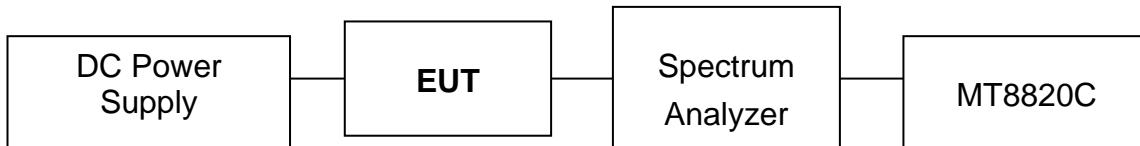


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

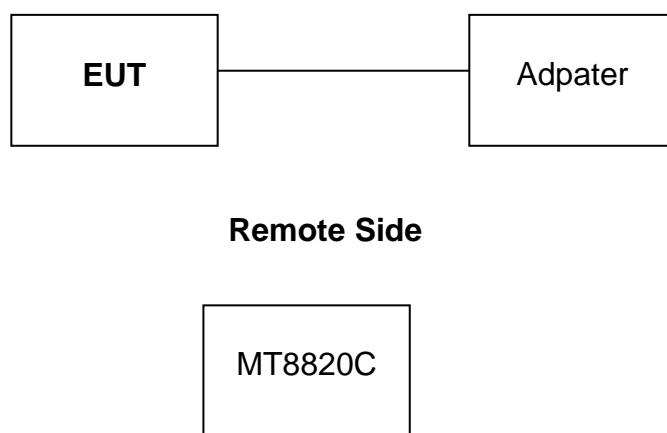


Table 2-1 Equipment Used in

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
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(h)(2) §27.50(c)(10) §27.50(d)(4) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	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 §90.213	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	ERP/EIRP	RADIATED EMISSION
LTE Band 2	H-plan	H-plan
LTE Band 4	H-plan	H-plan
LTE Band 5	H-plan	H-plan
LTE Band 12	H-plan	H-plan
LTE Band 25	H-plan	H-plan
LTE Band 26	H-plan	H-plan
LTE Band 26 (Part 90S)	H-plan	H-plan

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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 STABILITY	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	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offest 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
CONDUCUDET EMISSION	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	18700 to 19100	18700, 18900, 19100	3MHz	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 STABILITY	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 Offest 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
CONDUCED EMISSION	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	20000 to 20350	20000, 20175, 20350	10MHz	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 STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	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
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	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
COND CUDETED EMISSION	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 EMIS-SION	20450 to 20600	20450, 20525, 20600	1.4MHz	16QAM	1 RB, 0 RB Offest

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHAN-NEL BAND-WIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDUC- DETED EMIS- SION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	5MHz	QPSK	1 RB, 49 RB Offest

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 4QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM, 4QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 4QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 4QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM, 4QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 4QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 4QAM	Full RB
PEAK TO AVERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	26115 to 26615	26115, 26365, 26615	10MHz	QPSK,	1 RB, 0 RB Offset

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 64QAM	1 RB/ 0,5 RB Offset
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offset
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offset
CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offset
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offset
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offset
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	1.4MHz	QPSK,	1 RB, 0 RB Offset

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCEDETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offset
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offset

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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. MAXIMUM 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.

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(c) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

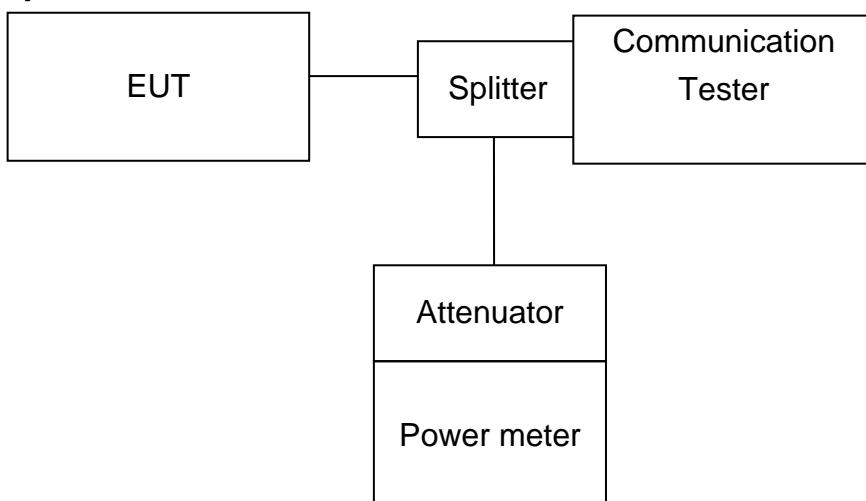
FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

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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.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMes} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMes, typically dBW or dBm);

PMes = 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.

6.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25

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6.5. Measurement Result

RF Conducted Output Power

Antenna gain (dBi) 1

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	22.55	23.55	33	-9.45
				1	5	22.55	23.55	33	-9.45
				3	2	22.71	23.71	33	-9.29
				6	0	21.79	22.79	33	-10.21
	18900	1880	QPSK	1	0	22.44	23.44	33	-9.56
				1	5	22.34	23.34	33	-9.66
				3	2	22.42	23.42	33	-9.58
				6	0	21.51	22.51	33	-10.49
	19193	1909.3	QPSK	1	0	22.49	23.49	33	-9.51
				1	5	22.41	23.41	33	-9.59
				3	2	22.52	23.52	33	-9.48
				6	0	21.53	22.53	33	-10.47
	18607	1850.7	16QAM	1	0	21.35	22.35	33	-10.65
				1	5	21.39	22.39	33	-10.61
				3	2	21.82	22.82	33	-10.18
				6	0	20.73	21.73	33	-11.27
	18900	1880	16QAM	1	0	21.98	22.98	33	-10.02
				1	5	21.79	22.79	33	-10.21
				3	2	21.45	22.45	33	-10.55
				6	0	20.63	21.63	33	-11.37
	19193	1909.3	16QAM	1	0	21.80	22.80	33	-10.2
				1	5	21.68	22.68	33	-10.32
				3	2	21.67	22.67	33	-10.33
				6	0	20.61	21.61	33	-11.39
	18607	1850.7	64QAM	1	0	21.30	22.30	33	-10.7
				1	5	21.34	22.34	33	-10.66
				3	2	21.77	22.77	33	-10.23
				6	0	20.68	21.68	33	-11.32
	18900	1880	64QAM	1	0	21.93	22.93	33	-10.07
				1	5	21.74	22.74	33	-10.26
				3	2	21.40	22.40	33	-10.6
				6	0	20.58	21.58	33	-11.42
	19193	1909.3	64QAM	1	0	21.75	22.75	33	-10.25
				1	5	21.63	22.63	33	-10.37
				3	2	21.62	22.62	33	-10.38
				6	0	20.56	21.56	33	-11.44

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Antenna gain (dBi) 1

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	22.74	23.74	33	-9.26
				1	14	22.84	23.84	33	-9.16
				8	4	21.72	22.72	33	-10.28
				15	0	21.72	22.72	33	-10.28
	18900	1880	QPSK	1	0	22.68	23.68	33	-9.32
				1	14	22.61	23.61	33	-9.39
				8	4	21.46	22.46	33	-10.54
				15	0	21.48	22.48	33	-10.52
	19185	1908.5	QPSK	1	0	22.73	23.73	33	-9.27
				1	14	22.39	23.39	33	-9.61
				8	4	21.68	22.68	33	-10.32
				15	0	21.56	22.56	33	-10.44
	18615	1851.5	16QAM	1	0	22.10	23.10	33	-9.9
				1	14	22.55	23.55	33	-9.45
				8	4	20.83	21.83	33	-11.17
				15	0	20.73	21.73	33	-11.27
	18900	1880	16QAM	1	0	21.90	22.90	33	-10.1
				1	14	21.65	22.65	33	-10.35
				8	4	20.56	21.56	33	-11.44
				15	0	20.46	21.46	33	-11.54
	19185	1908.5	16QAM	1	0	21.86	22.86	33	-10.14
				1	14	21.70	22.70	33	-10.3
				8	4	20.68	21.68	33	-11.32
				15	0	20.61	21.61	33	-11.39
	18615	1851.5	64QAM	1	0	22.07	23.07	33	-9.93
				1	14	22.52	23.52	33	-9.48
				8	4	20.80	21.80	33	-11.2
				15	0	20.70	21.70	33	-11.3
	18900	1880	64QAM	1	0	21.87	22.87	33	-10.13
				1	14	21.62	22.62	33	-10.38
				8	4	20.53	21.53	33	-11.47
				15	0	20.43	21.43	33	-11.57
	19185	1908.5	64QAM	1	0	21.83	22.83	33	-10.17
				1	14	21.67	22.67	33	-10.33
				8	4	20.65	21.65	33	-11.35
				15	0	20.58	21.58	33	-11.42

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Antenna gain (dBi)

1

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	22.55	23.55	33	-9.45
				1	24	22.43	23.43	33	-9.57
				12	6	21.46	22.46	33	-10.54
				25	0	21.55	22.55	33	-10.45
	18900	1880	QPSK	1	0	22.27	23.27	33	-9.73
				1	24	22.40	23.40	33	-9.6
				12	6	21.24	22.24	33	-10.76
				25	0	21.20	22.20	33	-10.8
	19175	1907.5	QPSK	1	0	22.24	23.24	33	-9.76
				1	24	22.46	23.46	33	-9.54
				12	6	21.30	22.30	33	-10.7
				25	0	21.32	22.32	33	-10.68
	18625	1852.5	16QAM	1	0	21.43	22.43	33	-10.57
				1	24	21.81	22.81	33	-10.19
				12	6	20.41	21.41	33	-11.59
				25	0	20.68	21.68	33	-11.32
	18900	1880	16QAM	1	0	21.58	22.58	33	-10.42
				1	24	21.78	22.78	33	-10.22
				12	6	20.28	21.28	33	-11.72
				25	0	20.58	21.58	33	-11.42
	19175	1907.5	16QAM	1	0	21.60	22.60	33	-10.4
				1	24	21.62	22.62	33	-10.38
				12	6	20.23	21.23	33	-11.77
				25	0	20.22	21.22	33	-11.78
	18625	1852.5	64QAM	1	0	21.37	22.37	33	-10.63
				1	24	21.75	22.75	33	-10.25
				12	6	20.35	21.35	33	-11.65
				25	0	20.62	21.62	33	-11.38
	18900	1880	64QAM	1	0	21.52	22.52	33	-10.48
				1	24	21.72	22.72	33	-10.28
				12	6	20.22	21.22	33	-11.78
				25	0	20.52	21.52	33	-11.48
	19175	1907.5	64QAM	1	0	21.54	22.54	33	-10.46
				1	24	21.56	22.56	33	-10.44
				12	6	20.17	21.17	33	-11.83
				25	0	20.16	21.16	33	-11.84

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Antenna gain (dBi)

1

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	22.50	23.50	33	-9.5
				1	24	22.46	23.46	33	-9.54
				12	6	21.39	22.39	33	-10.61
				25	0	21.56	22.56	33	-10.44
	18900	1880	QPSK	1	0	22.45	23.45	33	-9.55
				1	24	22.50	23.50	33	-9.5
				12	6	21.21	22.21	33	-10.79
				25	0	21.35	22.35	33	-10.65
	19150	1905	QPSK	1	0	22.40	23.40	33	-9.6
				1	24	22.36	23.36	33	-9.64
				12	6	21.24	22.24	33	-10.76
				25	0	21.30	22.30	33	-10.7
	18650	1855	16QAM	1	0	21.32	22.32	33	-10.68
				1	24	21.60	22.60	33	-10.4
				12	6	20.39	21.39	33	-11.61
				25	0	20.50	21.50	33	-11.5
	18900	1880	16QAM	1	0	21.57	22.57	33	-10.43
				1	24	22.10	23.10	33	-9.9
				12	6	20.40	21.40	33	-11.6
				25	0	20.39	21.39	33	-11.61
	19150	1905	16QAM	1	0	21.56	22.56	33	-10.44
				1	24	21.81	22.81	33	-10.19
				12	6	20.46	21.46	33	-11.54
				25	0	20.46	21.46	33	-11.54
	18650	1855	64QAM	1	0	21.28	22.28	33	-10.72
				1	24	21.56	22.56	33	-10.44
				12	6	20.35	21.35	33	-11.65
				25	0	20.46	21.46	33	-11.54
	18900	1880	64QAM	1	0	21.53	22.53	33	-10.47
				1	24	22.06	23.06	33	-9.94
				12	6	20.36	21.36	33	-11.64
				25	0	20.35	21.35	33	-11.65
	19150	1905	64QAM	1	0	21.52	22.52	33	-10.48
				1	24	21.77	22.77	33	-10.23
				12	6	20.42	21.42	33	-11.58
				25	0	20.42	21.42	33	-11.58

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Antenna gain (dBi)

1

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	22.68	23.68	33	-9.32
				1	74	22.52	23.52	33	-9.48
				36	19	21.34	22.34	33	-10.66
				75	0	21.54	22.54	33	-10.46
	18900	1880	QPSK	1	0	22.53	23.53	33	-9.47
				1	74	22.35	23.35	33	-9.65
				36	19	21.26	22.26	33	-10.74
				75	0	21.36	22.36	33	-10.64
	19125	1902.5	QPSK	1	0	22.53	23.53	33	-9.47
				1	74	22.75	23.75	33	-9.25
				36	19	21.38	22.38	33	-10.62
				75	0	21.34	22.34	33	-10.66
	18675	1857.5	16QAM	1	0	21.79	22.79	33	-10.21
				1	74	21.14	22.14	33	-10.86
				36	19	20.40	21.40	33	-11.6
				75	0	20.72	21.72	33	-11.28
	18900	1880	16QAM	1	0	21.84	22.84	33	-10.16
				1	74	22.02	23.02	33	-9.98
				36	19	20.43	21.43	33	-11.57
				75	0	20.18	21.18	33	-11.82
	19125	1902.5	16QAM	1	0	21.95	22.95	33	-10.05
				1	74	21.69	22.69	33	-10.31
				36	19	20.43	21.43	33	-11.57
				75	0	20.41	21.41	33	-11.59
	18675	1857.5	64QAM	1	0	21.76	22.76	33	-10.24
				1	74	21.11	22.11	33	-10.89
				36	19	20.37	21.37	33	-11.63
				75	0	20.69	21.69	33	-11.31
	18900	1880	64QAM	1	0	21.81	22.81	33	-10.19
				1	74	21.99	22.99	33	-10.01
				36	19	20.40	21.40	33	-11.6
				75	0	20.15	21.15	33	-11.85
	19125	1902.5	64QAM	1	0	21.92	22.92	33	-10.08
				1	74	21.66	22.66	33	-10.34
				36	19	20.40	21.40	33	-11.6
				75	0	20.38	21.38	33	-11.62

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Antenna gain (dBi)

1

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	22.80	23.80	33	-9.2
				1	99	22.26	23.26	33	-9.74
				50	25	21.05	22.05	33	-10.95
				100	0	21.09	22.09	33	-10.91
	18900	1880	QPSK	1	0	22.00	23.00	33	-10
				1	99	22.14	23.14	33	-9.86
				50	25	21.01	22.01	33	-10.99
				100	0	20.99	21.99	33	-11.01
	19100	1900	QPSK	1	0	22.98	23.98	33	-9.02
				1	99	22.14	23.14	33	-9.86
				50	25	20.92	21.92	33	-11.08
				100	0	20.90	21.90	33	-11.1
	18700	1860	16QAM	1	0	21.75	22.75	33	-10.25
				1	99	21.94	22.94	33	-10.06
				50	25	20.10	21.10	33	-11.9
				100	0	20.17	21.17	33	-11.83
	18900	1880	16QAM	1	0	21.39	22.39	33	-10.61
				1	99	21.49	22.49	33	-10.51
				50	25	20.12	21.12	33	-11.88
				100	0	20.05	21.05	33	-11.95
	19100	1900	16QAM	1	0	20.83	21.83	33	-11.17
				1	99	20.72	21.72	33	-11.28
				50	25	20.01	21.01	33	-11.99
				100	0	20.05	21.05	33	-11.95
	18700	1860	64QAM	1	0	21.73	22.73	33	-10.27
				1	99	21.92	22.92	33	-10.08
				50	25	20.08	21.08	33	-11.92
				100	0	20.15	21.15	33	-11.85
	18900	1880	64QAM	1	0	21.37	22.37	33	-10.63
				1	99	21.47	22.47	33	-10.53
				50	25	20.10	21.10	33	-11.9
				100	0	20.03	21.03	33	-11.97
	19100	1900	64QAM	1	0	20.81	21.81	33	-11.19
				1	99	20.71	21.71	33	-11.29
				50	25	19.99	20.99	33	-12.01
				100	0	20.03	21.03	33	-11.97

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Antenna gain (dBi)

1

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	23.12	24.12	30	-5.88
				1	5	23.03	24.03	30	-5.97
				3	2	23.13	24.13	30	-5.87
				6	0	22.27	23.27	30	-6.73
	20175	1732.5	QPSK	1	0	23.38	24.38	30	-5.62
				1	5	23.25	24.25	30	-5.75
				3	2	23.48	24.48	30	-5.52
				6	0	22.37	23.37	30	-6.63
	20393	1754.3	QPSK	1	0	23.21	24.21	30	-5.79
				1	5	23.12	24.12	30	-5.88
				3	2	23.21	24.21	30	-5.79
				6	0	22.30	23.30	30	-6.7
	19957	1710.7	16QAM	1	0	22.37	23.37	30	-6.63
				1	5	22.41	23.41	30	-6.59
				3	2	22.17	23.17	30	-6.83
				6	0	21.26	22.26	30	-7.74
	20175	1732.5	16QAM	1	0	22.46	23.46	30	-6.54
				1	5	22.13	23.13	30	-6.87
				3	2	22.36	23.36	30	-6.64
				6	0	21.11	22.11	30	-7.89
	20393	1754.3	16QAM	1	0	22.36	23.36	30	-6.64
				1	5	21.68	22.68	30	-7.32
				3	2	22.23	23.23	30	-6.77
				6	0	21.26	22.26	30	-7.74
	19957	1710.7	64QAM	1	0	22.32	23.32	30	-6.68
				1	5	22.36	23.36	30	-6.64
				3	2	22.12	23.12	30	-6.88
				6	0	21.21	22.21	30	-7.79
	20175	1732.5	64QAM	1	0	22.41	23.41	30	-6.59
				1	5	22.08	23.08	30	-6.92
				3	2	22.31	23.31	30	-6.69
				6	0	21.06	22.06	30	-7.94
	20393	1754.3	64QAM	1	0	22.31	23.31	30	-6.69
				1	5	21.63	22.63	30	-7.37
				3	2	22.18	23.18	30	-6.82
				6	0	21.21	22.21	30	-7.79

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Antenna gain (dBi) 1

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	23.38	24.38	30	-5.62
				1	14	23.38	24.38	30	-5.62
				8	4	22.26	23.26	30	-6.74
				15	0	22.25	23.25	30	-6.75
	20175	1732.5	QPSK	1	0	23.44	24.44	30	-5.56
				1	14	23.25	24.25	30	-5.75
				8	4	22.46	23.46	30	-6.54
				15	0	22.38	23.38	30	-6.62
	20385	1753.5	QPSK	1	0	23.22	24.22	30	-5.78
				1	14	23.18	24.18	30	-5.82
				8	4	22.26	23.26	30	-6.74
				15	0	22.29	23.29	30	-6.71
	19965	1711.5	16QAM	1	0	22.47	23.47	30	-6.53
				1	14	22.30	23.30	30	-6.7
				8	4	21.27	22.27	30	-7.73
				15	0	21.06	22.06	30	-7.94
	20175	1732.5	16QAM	1	0	22.48	23.48	30	-6.52
				1	14	22.18	23.18	30	-6.82
				8	4	21.41	22.41	30	-7.59
				15	0	21.43	22.43	30	-7.57
	20385	1753.5	16QAM	1	0	22.49	23.49	30	-6.51
				1	14	22.41	23.41	30	-6.59
				8	4	21.45	22.45	30	-7.55
				15	0	21.46	22.46	30	-7.54
	19965	1711.5	64QAM	1	0	22.49	23.49	30	-6.51
				1	14	22.22	23.22	30	-6.78
				8	4	21.19	22.19	30	-7.81
				15	0	20.98	21.98	30	-8.02
	20175	1732.5	64QAM	1	0	22.40	23.40	30	-6.6
				1	14	22.10	23.10	30	-6.9
				8	4	21.43	22.43	30	-7.57
				15	0	21.45	22.45	30	-7.55
	20385	1753.5	64QAM	1	0	22.41	23.41	30	-6.59
				1	14	22.43	23.43	30	-6.57
				8	4	21.37	22.37	30	-7.63
				15	0	21.38	22.38	30	-7.62

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Antenna gain (dBi) 1

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)
5	19975	1712.5	QPSK	1	0	23.13	24.13	30	-5.87
				1	24	22.91	23.91	30	-6.09
				12	6	22.24	23.24	30	-6.76
				25	0	22.22	23.22	30	-6.78
	20175	1732.5	QPSK	1	0	23.37	24.37	30	-5.63
				1	24	23.32	24.32	30	-5.68
				12	6	22.32	23.32	30	-6.68
				25	0	22.30	23.30	30	-6.7
	20375	1752.5	QPSK	1	0	23.15	24.15	30	-5.85
				1	24	23.29	24.29	30	-5.71
				12	6	22.27	23.27	30	-6.73
				25	0	22.09	23.09	30	-6.91
	19975	1712.5	16QAM	1	0	22.48	23.48	30	-6.52
				1	24	22.32	23.32	30	-6.68
				12	6	21.17	22.17	30	-7.83
				25	0	21.18	22.18	30	-7.82
	20175	1732.5	16QAM	1	0	22.46	23.46	30	-6.54
				1	24	22.49	23.49	30	-6.51
				12	6	21.15	22.15	30	-7.85
				25	0	21.44	22.44	30	-7.56
	20375	1752.5	16QAM	1	0	22.50	23.50	30	-6.5
				1	24	22.45	23.45	30	-6.55
				12	6	21.32	22.32	30	-7.68
				25	0	21.37	22.37	30	-7.63
	19975	1712.5	64QAM	1	0	22.45	23.45	30	-6.55
				1	24	22.29	23.29	30	-6.71
				12	6	21.14	22.14	30	-7.86
				25	0	21.15	22.15	30	-7.85
	20175	1732.5	64QAM	1	0	22.43	23.43	30	-6.57
				1	24	22.46	23.46	30	-6.54
				12	6	21.12	22.12	30	-7.88
				25	0	21.41	22.41	30	-7.59
	20375	1752.5	64QAM	1	0	22.47	23.47	30	-6.53
				1	24	22.42	23.42	30	-6.58
				12	6	21.29	22.29	30	-7.71
				25	0	21.34	22.34	30	-7.66

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Antenna gain (dBi)

1

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	23.28	24.28	30	-5.72
				1	24	23.22	24.22	30	-5.78
				12	6	22.29	23.29	30	-6.71
				25	0	22.32	23.32	30	-6.68
	20175	1732.5	QPSK	1	0	23.44	24.44	30	-5.56
				1	24	23.32	24.32	30	-5.68
				12	6	22.44	23.44	30	-6.56
				25	0	22.35	23.35	30	-6.65
	20375	1750	QPSK	1	0	23.19	24.19	30	-5.81
				1	24	23.17	24.17	30	-5.83
				12	6	22.36	23.36	30	-6.64
				25	0	22.39	23.39	30	-6.61
	20000	1715	16QAM	1	0	22.47	23.47	30	-6.53
				1	24	22.26	23.26	30	-6.74
				12	6	21.48	22.48	30	-7.52
				25	0	21.29	22.29	30	-7.71
	20175	1732.5	16QAM	1	0	22.42	23.42	30	-6.58
				1	24	22.46	23.46	30	-6.54
				12	6	21.33	22.33	30	-7.67
				25	0	21.34	22.34	30	-7.66
	20375	1750	16QAM	1	0	22.38	23.38	30	-6.62
				1	24	22.34	23.34	30	-6.66
				12	6	21.15	22.15	30	-7.85
				25	0	21.20	22.20	30	-7.8
	20000	1715	64QAM	1	0	22.41	23.41	30	-6.59
				1	24	22.20	23.20	30	-6.8
				12	6	21.42	22.42	30	-7.58
				25	0	21.23	22.23	30	-7.77
	20175	1732.5	64QAM	1	0	22.46	23.46	30	-6.54
				1	24	22.40	23.40	30	-6.6
				12	6	21.27	22.27	30	-7.73
				25	0	21.28	22.28	30	-7.72
	20375	1750	64QAM	1	0	22.32	23.32	30	-6.68
				1	24	22.28	23.28	30	-6.72
				12	6	21.09	22.09	30	-7.91
				25	0	21.14	22.14	30	-7.86

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Antenna gain (dBi) 1

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	23.44	24.44	30	-5.56
				1	74	23.06	24.06	30	-5.94
				36	19	22.29	23.29	30	-6.71
				75	0	22.37	23.37	30	-6.63
	20175	1732.5	QPSK	1	0	23.43	24.43	30	-5.57
				1	74	23.36	24.36	30	-5.64
				36	19	22.43	23.43	30	-6.57
				75	0	22.45	23.45	30	-6.55
	20325	1747.5	QPSK	1	0	23.41	24.41	30	-5.59
				1	74	23.15	24.15	30	-5.85
				36	19	22.20	23.20	30	-6.8
				75	0	22.34	23.34	30	-6.66
	20025	1717.5	16QAM	1	0	22.49	23.49	30	-6.51
				1	74	22.37	23.37	30	-6.63
				36	19	21.26	22.26	30	-7.74
				75	0	21.29	22.29	30	-7.71
	20175	1732.5	16QAM	1	0	22.44	23.44	30	-6.56
				1	74	22.49	23.49	30	-6.51
				36	19	21.17	22.17	30	-7.83
				75	0	21.40	22.40	30	-7.6
	20325	1747.5	16QAM	1	0	22.45	23.45	30	-6.55
				1	74	22.33	23.33	30	-6.67
				36	19	21.16	22.16	30	-7.84
				75	0	21.24	22.24	30	-7.76
	20025	1717.5	64QAM	1	0	22.45	23.45	30	-6.55
				1	74	22.33	23.33	30	-6.67
				36	19	21.22	22.22	30	-7.78
				75	0	21.25	22.25	30	-7.75
	20175	1732.5	64QAM	1	0	22.40	23.40	30	-6.6
				1	74	22.45	23.45	30	-6.55
				36	19	21.13	22.13	30	-7.87
				75	0	21.36	22.36	30	-7.64
	20325	1747.5	64QAM	1	0	22.41	23.41	30	-6.59
				1	74	22.29	23.29	30	-6.71
				36	19	21.12	22.12	30	-7.88
				75	0	21.14	22.14	30	-7.86

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Antenna gain (dBi) 1

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	23.43	24.43	30	-5.57
				1	99	23.30	24.30	30	-5.7
				50	25	22.36	23.36	30	-6.64
				100	0	22.35	23.35	30	-6.65
	20175	1732.5	QPSK	1	0	23.50	24.50	30	-5.5
				1	99	23.25	24.25	30	-5.75
				50	25	22.48	23.48	30	-6.52
				100	0	22.43	23.43	30	-6.57
	20300	1745	QPSK	1	0	23.34	24.34	30	-5.66
				1	99	23.06	24.06	30	-5.94
				50	25	22.26	23.26	30	-6.74
				100	0	22.35	23.35	30	-6.65
	20050	1720	16QAM	1	0	22.45	23.45	30	-6.55
				1	99	22.23	23.23	30	-6.77
				50	25	21.27	22.27	30	-7.73
				100	0	21.34	22.34	30	-7.66
	20175	1732.5	16QAM	1	0	22.45	23.45	30	-6.55
				1	99	22.46	23.46	30	-6.54
				50	25	21.47	22.47	30	-7.53
				100	0	21.47	22.47	30	-7.53
	20300	1745	16QAM	1	0	22.45	23.45	30	-6.55
				1	99	22.17	23.17	30	-6.83
				50	25	21.18	22.18	30	-7.82
				100	0	21.31	22.31	30	-7.69
	20050	1720	64QAM	1	0	22.47	23.47	30	-6.53
				1	99	22.15	23.15	30	-6.85
				50	25	21.19	22.19	30	-7.81
				100	0	21.26	22.26	30	-7.74
	20175	1732.5	64QAM	1	0	22.37	23.37	30	-6.63
				1	99	22.38	23.38	30	-6.62
				50	25	21.39	22.39	30	-7.61
				100	0	21.39	22.39	30	-7.61
	20300	1745	64QAM	1	0	22.47	23.47	30	-6.53
				1	99	22.09	23.09	30	-6.91
				50	25	21.10	22.10	30	-7.9
				100	0	21.23	22.23	30	-7.77

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Antenna gain (dBi) 0.5

LTE Band 5_Uplink frequency band : 824 to 849 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	20407	824.7	QPSK	1	0	22.28	22.78	38.45	-15.67
				1	5	22.21	22.71	38.45	-15.74
				3	2	22.31	22.81	38.45	-15.64
				6	0	21.24	21.74	38.45	-16.71
	20525	836.5	QPSK	1	0	22.37	22.87	38.45	-15.58
				1	5	22.22	22.72	38.45	-15.73
				3	2	22.28	22.78	38.45	-15.67
				6	0	21.34	21.84	38.45	-16.61
	20643	848.3	QPSK	1	0	22.18	22.68	38.45	-15.77
				1	5	22.12	22.62	38.45	-15.83
				3	2	22.25	22.75	38.45	-15.7
				6	0	21.27	21.77	38.45	-16.68
	20407	824.7	16QAM	1	0	21.42	21.92	38.45	-16.53
				1	5	21.39	21.89	38.45	-16.56
				3	2	21.30	21.80	38.45	-16.65
				6	0	20.08	20.58	38.45	-17.87
	20525	836.5	16QAM	1	0	21.75	22.25	38.45	-16.2
				1	5	21.38	21.88	38.45	-16.57
				3	2	21.31	21.81	38.45	-16.64
				6	0	20.39	20.89	38.45	-17.56
	20643	848.3	16QAM	1	0	21.73	22.23	38.45	-16.22
				1	5	21.59	22.09	38.45	-16.36
				3	2	21.22	21.72	38.45	-16.73
				6	0	20.33	20.83	38.45	-17.62
	20407	824.7	64QAM	1	0	21.38	21.88	38.45	-16.57
				1	5	21.35	21.85	38.45	-16.6
				3	2	21.26	21.76	38.45	-16.69
				6	0	20.12	20.62	38.45	-17.83
	20525	836.5	64QAM	1	0	21.71	22.21	38.45	-16.24
				1	5	21.34	21.84	38.45	-16.61
				3	2	21.27	21.77	38.45	-16.68
				6	0	20.35	20.85	38.45	-17.6
	20643	848.3	64QAM	1	0	21.69	22.19	38.45	-16.26
				1	5	21.55	22.05	38.45	-16.4
				3	2	21.18	21.68	38.45	-16.77
				6	0	20.29	20.79	38.45	-17.66

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Antenna gain (dBi) 0.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	22.42	22.92	38.45	-15.53
				1	14	22.32	22.82	38.45	-15.63
				8	4	21.22	21.72	38.45	-16.73
				15	0	21.16	21.66	38.45	-16.79
	20525	836.5	QPSK	1	0	22.46	22.96	38.45	-15.49
				1	14	22.15	22.65	38.45	-15.8
				8	4	21.26	21.76	38.45	-16.69
				15	0	21.14	21.64	38.45	-16.81
	20635	847.5	QPSK	1	0	22.33	22.83	38.45	-15.62
				1	14	22.00	22.50	38.45	-15.95
				8	4	21.28	21.78	38.45	-16.67
				15	0	21.10	21.60	38.45	-16.85
	20415	825.5	16QAM	1	0	21.66	22.16	38.45	-16.29
				1	14	21.77	22.27	38.45	-16.18
				8	4	20.31	20.81	38.45	-17.64
				15	0	20.16	20.66	38.45	-17.79
	20525	836.5	16QAM	1	0	21.78	22.28	38.45	-16.17
				1	14	21.39	21.89	38.45	-16.56
				8	4	20.04	20.54	38.45	-17.91
				15	0	20.13	20.63	38.45	-17.82
	20635	847.5	16QAM	1	0	21.68	22.18	38.45	-16.27
				1	14	21.37	21.87	38.45	-16.58
				8	4	20.34	20.84	38.45	-17.61
				15	0	20.11	20.61	38.45	-17.84
	20415	825.5	64QAM	1	0	21.53	22.03	38.45	-16.42
				1	14	21.64	22.14	38.45	-16.31
				8	4	20.11	20.61	38.45	-17.84
				15	0	20.03	20.53	38.45	-17.92
	20525	836.5	64QAM	1	0	21.65	22.15	38.45	-16.3
				1	14	21.26	21.76	38.45	-16.69
				8	4	20.09	20.59	38.45	-17.86
				15	0	20.08	20.58	38.45	-17.87
	20635	847.5	64QAM	1	0	21.55	22.05	38.45	-16.4
				1	14	21.24	21.74	38.45	-16.71
				8	4	20.21	20.71	38.45	-17.74
				15	0	20.07	20.57	38.45	-17.88

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Antenna gain (dBi) 0.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	22.51	23.01	38.45	-15.44
				1	24	22.31	22.81	38.45	-15.64
				12	6	21.20	21.70	38.45	-16.75
				25	0	21.19	21.69	38.45	-16.76
	20525	836.5	QPSK	1	0	22.08	22.58	38.45	-15.87
				1	24	22.33	22.83	38.45	-15.62
				12	6	21.16	21.66	38.45	-16.79
				25	0	21.17	21.67	38.45	-16.78
	20625	846.5	QPSK	1	0	22.10	22.60	38.45	-15.85
				1	24	22.15	22.65	38.45	-15.8
				12	6	21.05	21.55	38.45	-16.9
				25	0	21.15	21.65	38.45	-16.8
	20425	826.5	16QAM	1	0	22.08	22.58	38.45	-15.87
				1	24	21.42	21.92	38.45	-16.53
				12	6	20.11	20.61	38.45	-17.84
				25	0	20.12	20.62	38.45	-17.83
	20525	836.5	16QAM	1	0	21.08	21.58	38.45	-16.87
				1	24	21.06	21.56	38.45	-16.89
				12	6	20.09	20.59	38.45	-17.86
				25	0	20.21	20.71	38.45	-17.74
	20625	846.5	16QAM	1	0	21.43	21.93	38.45	-16.52
				1	24	21.50	22.00	38.45	-16.45
				12	6	20.06	20.56	38.45	-17.89
				25	0	20.08	20.58	38.45	-17.87
	20425	826.5	64QAM	1	0	22.02	22.52	38.45	-15.93
				1	24	21.36	21.86	38.45	-16.59
				12	6	20.05	20.55	38.45	-17.9
				25	0	20.06	20.56	38.45	-17.89
	20525	836.5	64QAM	1	0	21.02	21.52	38.45	-16.93
				1	24	21.00	21.50	38.45	-16.95
				12	6	20.03	20.53	38.45	-17.92
				25	0	20.15	20.65	38.45	-17.8
	20625	846.5	64QAM	1	0	21.37	21.87	38.45	-16.58
				1	24	21.44	21.94	38.45	-16.51
				12	6	20.00	20.50	38.45	-17.95
				25	0	20.02	20.52	38.45	-17.93

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Antenna gain (dBi)

0.5

LTE Band 5_Uplink frequency band : 824 to 849 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	22.33	22.83	38.45	-15.62
				1	49	22.32	22.82	38.45	-15.63
				25	12	21.22	21.72	38.45	-16.73
				50	0	21.30	21.80	38.45	-16.65
	20525	836.5	QPSK	1	0	22.38	22.88	38.45	-15.57
				1	49	22.27	22.77	38.45	-15.68
				25	12	21.19	21.69	38.45	-16.76
				50	0	21.26	21.76	38.45	-16.69
	20600	844	QPSK	1	0	22.34	22.84	38.45	-15.61
				1	49	22.35	22.85	38.45	-15.6
				25	12	21.16	21.66	38.45	-16.79
				50	0	21.28	21.78	38.45	-16.67
	20450	829	16QAM	1	0	21.68	22.18	38.45	-16.27
				1	49	21.13	21.63	38.45	-16.82
				25	12	20.52	21.02	38.45	-17.43
				50	0	20.32	20.82	38.45	-17.63
	20525	836.5	16QAM	1	0	21.53	22.03	38.45	-16.42
				1	49	21.14	21.64	38.45	-16.81
				25	12	20.39	20.89	38.45	-17.56
				50	0	20.32	20.82	38.45	-17.63
	20600	844	16QAM	1	0	21.82	22.32	38.45	-16.13
				1	49	21.26	21.76	38.45	-16.69
				25	12	20.17	20.67	38.45	-17.78
				50	0	20.12	20.62	38.45	-17.83
	20450	829	64QAM	1	0	21.64	22.14	38.45	-16.31
				1	49	21.23	21.73	38.45	-16.72
				25	12	20.48	20.98	38.45	-17.47
				50	0	20.28	20.78	38.45	-17.67
	20525	836.5	64QAM	1	0	21.49	21.99	38.45	-16.46
				1	49	21.10	21.60	38.45	-16.85
				25	12	20.35	20.85	38.45	-17.6
				50	0	20.28	20.78	38.45	-17.67
	20600	844	64QAM	1	0	21.78	22.28	38.45	-16.17
				1	49	21.22	21.72	38.45	-16.73
				25	12	20.13	20.63	38.45	-17.82
				50	0	20.08	20.58	38.45	-17.87

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Antenna gain (dBi)

0.5

LTE Band 12_Uplink frequency band : 699 to 716 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	23017	699.7	QPSK	1	0	22.33	22.83	34.77	-11.94
				1	5	22.14	22.64	34.77	-12.13
				3	2	22.66	23.16	34.77	-11.61
				6	0	21.27	21.77	34.77	-13
	23095	707.5	QPSK	1	0	22.31	22.81	34.77	-11.96
				1	5	22.33	22.83	34.77	-11.94
				3	2	22.31	22.81	34.77	-11.96
				6	0	21.28	21.78	34.77	-12.99
	23173	715.5	QPSK	1	0	22.11	22.61	34.77	-12.16
				1	5	22.08	22.58	34.77	-12.19
				3	2	22.31	22.81	34.77	-11.96
				6	0	21.31	21.81	34.77	-12.96
	23017	699.7	16QAM	1	0	21.62	22.12	34.77	-12.65
				1	5	21.56	22.06	34.77	-12.71
				3	2	21.23	21.73	34.77	-13.04
				6	0	19.90	20.40	34.77	-14.37
	23095	707.5	16QAM	1	0	21.24	21.74	34.77	-13.03
				1	5	21.14	21.64	34.77	-13.13
				3	2	21.52	22.02	34.77	-12.75
				6	0	20.17	20.67	34.77	-14.1
	23173	715.5	16QAM	1	0	21.88	22.38	34.77	-12.39
				1	5	21.86	22.36	34.77	-12.41
				3	2	21.10	21.60	34.77	-13.17
				6	0	20.17	20.67	34.77	-14.1
	23017	699.7	64QAM	1	0	21.59	22.09	34.77	-12.68
				1	5	21.53	22.03	34.77	-12.74
				3	2	21.20	21.70	34.77	-13.07
				6	0	19.87	20.37	34.77	-14.4
	23095	707.5	64QAM	1	0	21.21	21.71	34.77	-13.06
				1	5	21.11	21.61	34.77	-13.16
				3	2	21.49	21.99	34.77	-12.78
				6	0	20.14	20.64	34.77	-14.13
	23173	715.5	64QAM	1	0	21.85	22.35	34.77	-12.42
				1	5	21.83	22.33	34.77	-12.44
				3	2	21.07	21.57	34.77	-13.2
				6	0	20.14	20.64	34.77	-14.13

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Antenna gain (dBi)

0.5

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.42	22.92	34.77	-11.85
				1	14	22.44	22.94	34.77	-11.83
				8	4	21.34	21.84	34.77	-12.93
				15	0	21.34	21.84	34.77	-12.93
	23095	707.5	QPSK	1	0	22.32	22.82	34.77	-11.95
				1	14	22.38	22.88	34.77	-11.89
				8	4	21.18	21.68	34.77	-13.09
				15	0	21.29	21.79	34.77	-12.98
	23165	714.5	QPSK	1	0	22.42	22.92	34.77	-11.85
				1	14	22.55	23.05	34.77	-11.72
				8	4	21.24	21.74	34.77	-13.03
				15	0	21.27	21.77	34.77	-13
	23025	700.5	16QAM	1	0	22.24	22.74	34.77	-12.03
				1	14	21.39	21.89	34.77	-12.88
				8	4	20.20	20.70	34.77	-14.07
				15	0	20.34	20.84	34.77	-13.93
	23095	707.5	16QAM	1	0	21.17	21.67	34.77	-13.1
				1	14	21.51	22.01	34.77	-12.76
				8	4	20.31	20.81	34.77	-13.96
				15	0	20.27	20.77	34.77	-14
	23165	714.5	16QAM	1	0	21.75	22.25	34.77	-12.52
				1	14	21.73	22.23	34.77	-12.54
				8	4	20.37	20.87	34.77	-13.9
				15	0	20.41	20.91	34.77	-13.86
	23025	700.5	64QAM	1	0	22.19	22.69	34.77	-12.08
				1	14	21.34	21.84	34.77	-12.93
				8	4	20.15	20.65	34.77	-14.12
				15	0	20.29	20.79	34.77	-13.98
	23095	707.5	64QAM	1	0	21.12	21.62	34.77	-13.15
				1	14	21.46	21.96	34.77	-12.81
				8	4	20.26	20.76	34.77	-14.01
				15	0	20.22	20.72	34.77	-14.05
	23165	714.5	64QAM	1	0	21.70	22.20	34.77	-12.57
				1	14	21.68	22.18	34.77	-12.59
				8	4	20.32	20.82	34.77	-13.95
				15	0	20.36	20.86	34.77	-13.91

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Antenna gain (dBi)

0.5

LTE Band 12_Uplink frequency band : 699 to 716 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.44	22.94	34.77	-11.83
				1	24	22.59	23.09	34.77	-11.68
				12	6	21.38	21.88	34.77	-12.89
				25	0	21.41	21.91	34.77	-12.86
	23095	707.5	QPSK	1	0	22.56	23.06	34.77	-11.71
				1	24	22.33	22.83	34.77	-11.94
				12	6	21.22	21.72	34.77	-13.05
				25	0	21.33	21.83	34.77	-12.94
	23155	713.5	QPSK	1	0	22.05	22.55	34.77	-12.22
				1	24	22.40	22.90	34.77	-11.87
				12	6	21.28	21.78	34.77	-12.99
				25	0	21.41	21.91	34.77	-12.86
	23035	701.5	16QAM	1	0	21.92	22.42	34.77	-12.35
				1	24	22.20	22.70	34.77	-12.07
				12	6	20.35	20.85	34.77	-13.92
				25	0	20.48	20.98	34.77	-13.79
	23095	707.5	16QAM	1	0	22.05	22.55	34.77	-12.22
				1	24	21.53	22.03	34.77	-12.74
				12	6	20.21	20.71	34.77	-14.06
				25	0	20.40	20.90	34.77	-13.87
	23155	713.5	16QAM	1	0	21.94	22.44	34.77	-12.33
				1	24	22.39	22.89	34.77	-11.88
				12	6	20.18	20.68	34.77	-14.09
				25	0	20.40	20.90	34.77	-13.87
	23035	701.5	64QAM	1	0	21.86	22.36	34.77	-12.41
				1	24	22.14	22.64	34.77	-12.13
				12	6	20.29	20.79	34.77	-13.98
				25	0	20.42	20.92	34.77	-13.85
	23095	707.5	64QAM	1	0	21.99	22.49	34.77	-12.28
				1	24	21.47	21.97	34.77	-12.8
				12	6	20.15	20.65	34.77	-14.12
				25	0	20.34	20.84	34.77	-13.93
	23155	713.5	64QAM	1	0	21.88	22.38	34.77	-12.39
				1	24	22.33	22.83	34.77	-11.94
				12	6	20.12	20.62	34.77	-14.15
				25	0		0.50	34.77	-34.27

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Antenna gain (dBi)

0.5

LTE Band 12_Uplink frequency band : 699 to 716 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.42	22.92	34.77	-11.85
				1	49	22.44	22.94	34.77	-11.83
				25	12	21.34	21.84	34.77	-12.93
				50	0	21.34	21.84	34.77	-12.93
	23095	707.5	QPSK	1	0	22.32	22.82	34.77	-11.95
				1	49	22.38	22.88	34.77	-11.89
				25	12	21.18	21.68	34.77	-13.09
				50	0	21.29	21.79	34.77	-12.98
	23130	711	QPSK	1	0	22.42	22.92	34.77	-11.85
				1	49	22.68	23.18	34.77	-11.59
				25	12	21.24	21.74	34.77	-13.03
				50	0	21.27	21.77	34.77	-13
	23060	704	16QAM	1	0	22.24	22.74	34.77	-12.03
				1	49	21.39	21.89	34.77	-12.88
				25	12	20.20	20.70	34.77	-14.07
				50	0	20.34	20.84	34.77	-13.93
	23095	707.5	16QAM	1	0	21.17	21.67	34.77	-13.1
				1	49	21.51	22.01	34.77	-12.76
				25	12	20.31	20.81	34.77	-13.96
				50	0	20.27	20.77	34.77	-14
	23130	711	16QAM	1	0	21.75	22.25	34.77	-12.52
				1	49	21.73	22.23	34.77	-12.54
				25	12	20.37	20.87	34.77	-13.9
				50	0	20.41	20.91	34.77	-13.86
	23060	704	64QAM	1	0	22.16	22.66	34.77	-12.11
				1	49	21.31	21.81	34.77	-12.96
				25	12	20.12	20.62	34.77	-14.15
				50	0	20.26	20.76	34.77	-14.01
	23095	707.5	64QAM	1	0	21.09	21.59	34.77	-13.18
				1	49	21.43	21.93	34.77	-12.84
				25	12	20.23	20.73	34.77	-14.04
				50	0	20.19	20.69	34.77	-14.08
	23130	711	64QAM	1	0	21.67	22.17	34.77	-12.6
				1	49	21.65	22.15	34.77	-12.62
				25	12	20.29	20.79	34.77	-13.98
				50	0	20.33	20.83	34.77	-13.94

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Antenna gain (dBi) 1

LTE Band 25_Uplink frequency band : 1850 to 1915 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	26047	1850.7	QPSK	1	0	22.03	23.03	33	-9.97
				1	5	21.97	22.97	33	-10.03
				3	2	22.08	23.08	33	-9.92
				6	0	21.06	22.06	33	-10.94
	26365	1882.5	QPSK	1	0	21.88	22.88	33	-10.12
				1	5	21.79	22.79	33	-10.21
				3	2	22.02	23.02	33	-9.98
				6	0	20.97	21.97	33	-11.03
	26683	1914.3	QPSK	1	0	21.99	22.99	33	-10.01
				1	5	21.93	22.93	33	-10.07
				3	2	22.08	23.08	33	-9.92
				6	0	21.01	22.01	33	-10.99
	26047	1850.7	16QAM	1	0	21.05	22.05	33	-10.95
				1	5	21.07	22.07	33	-10.93
				3	2	21.38	22.38	33	-10.62
				6	0	19.96	20.96	33	-12.04
	26365	1882.5	16QAM	1	0	21.14	22.14	33	-10.86
				1	5	20.69	21.69	33	-11.31
				3	2	20.97	21.97	33	-11.03
				6	0	19.84	20.84	33	-12.16
	26683	1914.3	16QAM	1	0	21.14	22.14	33	-10.86
				1	5	21.08	22.08	33	-10.92
				3	2	21.03	22.03	33	-10.97
				6	0	20.03	21.03	33	-11.97
	26047	1850.7	64QAM	1	0	21.03	22.03	33	-10.97
				1	5	21.05	22.05	33	-10.95
				3	2	21.36	22.36	33	-10.64
				6	0	19.94	20.94	33	-12.06
	26365	1882.5	64QAM	1	0	21.12	22.12	33	-10.88
				1	5	20.67	21.67	33	-11.33
				3	2	20.95	21.95	33	-11.05
				6	0	19.82	20.82	33	-12.18
	26683	1914.3	64QAM	1	0	21.12	22.12	33	-10.88
				1	5	21.06	22.06	33	-10.94
				3	2	21.01	22.01	33	-10.99
				6	0	20.01	21.01	33	-11.99

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Antenna gain (dBi) 1

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	22.19	23.19	33	-9.81
				1	14	22.13	23.13	33	-9.87
				8	4	21.04	22.04	33	-10.96
				15	0	21.03	22.03	33	-10.97
	26365	1882.5	QPSK	1	0	22.25	23.25	33	-9.75
				1	14	22.25	23.25	33	-9.75
				8	4	20.95	21.95	33	-11.05
				15	0	21.07	22.07	33	-10.93
	26675	1913.5	QPSK	1	0	22.18	23.18	33	-9.82
				1	14	22.10	23.10	33	-9.9
				8	4	21.02	22.02	33	-10.98
				15	0	21.03	22.03	33	-10.97
	26055	1851.5	16QAM	1	0	21.27	22.27	33	-10.73
				1	14	21.18	22.18	33	-10.82
				8	4	20.00	21.00	33	-12
				15	0	19.89	20.89	33	-12.11
	26365	1882.5	16QAM	1	0	21.57	22.57	33	-10.43
				1	14	21.37	22.37	33	-10.63
				8	4	20.12	21.12	33	-11.88
				15	0	20.16	21.16	33	-11.84
	26675	1913.5	16QAM	1	0	21.50	22.50	33	-10.5
				1	14	21.44	22.44	33	-10.56
				8	4	20.19	21.19	33	-11.81
				15	0	20.07	21.07	33	-11.93
	26055	1851.5	64QAM	1	0	21.23	22.23	33	-10.77
				1	14	21.14	22.14	33	-10.86
				8	4	19.96	20.96	33	-12.04
				15	0	19.85	20.85	33	-12.15
	26365	1882.5	64QAM	1	0	21.53	22.53	33	-10.47
				1	14	21.33	22.33	33	-10.67
				8	4	20.08	21.08	33	-11.92
				15	0	20.12	21.12	33	-11.88
	26675	1913.5	64QAM	1	0	21.46	22.46	33	-10.54
				1	14	21.40	22.40	33	-10.6
				8	4	20.15	21.15	33	-11.85
				15	0	20.03	21.03	33	-11.97

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Antenna gain (dBi)

1

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	22.13	23.13	33	-9.87
				1	24	22.03	23.03	33	-9.97
				12	6	20.98	21.98	33	-11.02
				25	0	21.13	22.13	33	-10.87
	26365	1882.5	QPSK	1	0	22.03	23.03	33	-9.97
				1	24	22.13	23.13	33	-9.87
				12	6	20.97	21.97	33	-11.03
				25	0	21.07	22.07	33	-10.93
	26665	1912.5	QPSK	1	0	22.25	23.25	33	-9.75
				1	24	22.08	23.08	33	-9.92
				12	6	20.92	21.92	33	-11.08
				25	0	20.97	21.97	33	-11.03
	26065	1852.5	16QAM	1	0	21.37	22.37	33	-10.63
				1	24	21.66	22.66	33	-10.34
				12	6	19.99	20.99	33	-12.01
				25	0	20.26	21.26	33	-11.74
	26365	1882.5	16QAM	1	0	21.22	22.22	33	-10.78
				1	24	21.59	22.59	33	-10.41
				12	6	19.99	20.99	33	-12.01
				25	0	20.19	21.19	33	-11.81
	26665	1912.5	16QAM	1	0	21.68	22.68	33	-10.32
				1	24	21.87	22.87	33	-10.13
				12	6	19.83	20.83	33	-12.17
				25	0	20.05	21.05	33	-11.95
	26065	1852.5	64QAM	1	0	21.33	22.33	33	-10.67
				1	24	21.62	22.62	33	-10.38
				12	6	19.95	20.95	33	-12.05
				25	0	20.22	21.22	33	-11.78
	26365	1882.5	64QAM	1	0	21.18	22.18	33	-10.82
				1	24	21.55	22.55	33	-10.45
				12	6	19.95	20.95	33	-12.05
				25	0	20.15	21.15	33	-11.85
	26665	1912.5	64QAM	1	0	21.64	22.64	33	-10.36
				1	24	21.83	22.83	33	-10.17
				12	6	19.79	20.79	33	-12.21
				25	0	20.01	21.01	33	-11.99

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Antenna gain (dBi)

1

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	22.04	23.04	33	-9.96
				1	49	22.08	23.08	33	-9.92
				25	12	21.06	22.06	33	-10.94
				50	0	21.08	22.08	33	-10.92
	26365	1882.5	QPSK	1	0	22.00	23.00	33	-10
				1	49	22.10	23.10	33	-9.9
				25	12	21.01	22.01	33	-10.99
				50	0	21.06	22.06	33	-10.94
	26640	1910	QPSK	1	0	22.29	23.29	33	-9.71
				1	49	22.16	23.16	33	-9.84
				25	12	21.02	22.02	33	-10.98
				50	0	21.09	22.09	33	-10.91
	26090	1855	16QAM	1	0	21.33	22.33	33	-10.67
				1	49	21.18	22.18	33	-10.82
				25	12	20.07	21.07	33	-11.93
				50	0	20.08	21.08	33	-11.92
	26365	1882.5	16QAM	1	0	20.99	21.99	33	-11.01
				1	49	21.83	22.83	33	-10.17
				25	12	19.96	20.96	33	-12.04
				50	0	20.02	21.02	33	-11.98
	26640	1910	16QAM	1	0	21.26	22.26	33	-10.74
				1	49	21.47	22.47	33	-10.53
				25	12	19.76	20.76	33	-12.24
				50	0	19.97	20.97	33	-12.03
	26090	1855	64QAM	1	0	21.27	22.27	33	-10.73
				1	49	21.12	22.12	33	-10.88
				25	12	20.01	21.01	33	-11.99
				50	0	20.02	21.02	33	-11.98
	26365	1882.5	64QAM	1	0	20.93	21.93	33	-11.07
				1	49	21.77	22.77	33	-10.23
				25	12	19.90	20.90	33	-12.1
				50	0	19.96	20.96	33	-12.04
	26640	1910	64QAM	1	0	21.20	22.20	33	-10.8
				1	49	21.41	22.41	33	-10.59
				25	12	19.70	20.70	33	-12.3
				50	0	19.91	20.91	33	-12.09

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Antenna gain (dBi)

1

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	22.19	23.19	33	-9.81
				1	74	22.25	23.25	33	-9.75
				36	19	21.11	22.11	33	-10.89
				75	0	21.10	22.10	33	-10.9
	26365	1882.5	QPSK	1	0	22.21	23.21	33	-9.79
				1	74	22.08	23.08	33	-9.92
				36	19	20.99	21.99	33	-11.01
				75	0	21.09	22.09	33	-10.91
	26615	1907.5	QPSK	1	0	22.31	23.31	33	-9.69
				1	74	22.15	23.15	33	-9.85
				36	19	20.95	21.95	33	-11.05
				75	0	21.11	22.11	33	-10.89
	26115	1857.5	16QAM	1	0	21.63	22.63	33	-10.37
				1	74	22.02	23.02	33	-9.98
				36	19	20.03	21.03	33	-11.97
				75	0	20.13	21.13	33	-11.87
	26365	1882.5	16QAM	1	0	21.35	22.35	33	-10.65
				1	74	21.37	22.37	33	-10.63
				36	19	20.03	21.03	33	-11.97
				75	0	20.05	21.05	33	-11.95
	26615	1907.5	16QAM	1	0	21.32	22.32	33	-10.68
				1	74	21.73	22.73	33	-10.27
				36	19	19.97	20.97	33	-12.03
				75	0	20.17	21.17	33	-11.83
	26115	1857.5	64QAM	1	0	21.58	22.58	33	-10.42
				1	74	21.97	22.97	33	-10.03
				36	19	19.98	20.98	33	-12.02
				75	0	20.08	21.08	33	-11.92
	26365	1882.5	64QAM	1	0	21.30	22.30	33	-10.7
				1	74	21.32	22.32	33	-10.68
				36	19	19.98	20.98	33	-12.02
				75	0	20.00	21.00	33	-12
	26615	1907.5	64QAM	1	0	21.27	22.27	33	-10.73
				1	74	21.68	22.68	33	-10.32
				36	19	19.92	20.92	33	-12.08
				75	0	20.12	21.12	33	-11.88

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Antenna gain (dBi)

1

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	22.26	23.26	33	-9.74
				1	99	22.46	23.46	33	-9.54
				50	25	21.08	22.08	33	-10.92
				100	0	21.11	22.11	33	-10.89
	26365	1882.5	QPSK	1	0	22.02	23.02	33	-9.98
				1	99	22.17	23.17	33	-9.83
				50	25	21.08	22.08	33	-10.92
				100	0	21.11	22.11	33	-10.89
	26590	1905	QPSK	1	0	22.21	23.21	33	-9.79
				1	99	22.23	23.23	33	-9.77
				50	25	21.17	22.17	33	-10.83
				100	0	21.12	22.12	33	-10.88
	26140	1860	16QAM	1	0	21.29	22.29	33	-10.71
				1	99	21.88	22.88	33	-10.12
				50	25	20.04	21.04	33	-11.96
				100	0	20.15	21.15	33	-11.85
	26365	1882.5	16QAM	1	0	21.40	22.40	33	-10.6
				1	99	21.62	22.62	33	-10.38
				50	25	20.09	21.09	33	-11.91
				100	0	20.07	21.07	33	-11.93
	26590	1905	16QAM	1	0	21.31	22.31	33	-10.69
				1	99	21.20	22.20	33	-10.8
				50	25	20.16	21.16	33	-11.84
				100	0	20.11	21.11	33	-11.89
	26140	1860	64QAM	1	0	21.22	22.22	33	-10.78
				1	99	21.81	22.81	33	-10.19
				50	25	19.97	20.97	33	-12.03
				100	0	20.08	21.08	33	-11.92
	26365	1882.5	64QAM	1	0	21.33	22.33	33	-10.67
				1	99	21.55	22.55	33	-10.45
				50	25	20.02	21.02	33	-11.98
				100	0	20.00	21.00	33	-12
	26590	1905	64QAM	1	0	21.24	22.24	33	-10.76
				1	99	21.13	22.13	33	-10.87
				50	25	20.09	21.09	33	-11.91
				100	0	20.04	21.04	33	-11.96

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Antenna gain (dBi)

0.5

LTE Band 26_Uplink frequency band : 824 to 849 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	26797	824.7	QPSK	1	0	22.31	22.81	38.45	-15.64
				1	5	22.15	22.65	38.45	-15.8
				3	2	22.42	22.92	38.45	-15.53
				6	0	21.44	21.94	38.45	-16.51
	26915	836.5	QPSK	1	0	22.17	22.67	38.45	-15.78
				1	5	22.16	22.66	38.45	-15.79
				3	2	22.32	22.82	38.45	-15.63
				6	0	21.37	21.87	38.45	-16.58
	27033	848.3	QPSK	1	0	22.17	22.67	38.45	-15.78
				1	5	21.93	22.43	38.45	-16.02
				3	2	22.11	22.61	38.45	-15.84
				6	0	21.15	21.65	38.45	-16.8
	26797	824.7	16QAM	1	0	21.76	22.26	38.45	-16.19
				1	5	21.66	22.16	38.45	-16.29
				3	2	21.58	22.08	38.45	-16.37
				6	0	20.37	20.87	38.45	-17.58
	26915	836.5	16QAM	1	0	21.16	21.66	38.45	-16.79
				1	5	21.66	22.16	38.45	-16.29
				3	2	21.37	21.87	38.45	-16.58
				6	0	20.40	20.90	38.45	-17.55
	27033	848.3	16QAM	1	0	21.10	21.60	38.45	-16.85
				1	5	20.82	21.32	38.45	-17.13
				3	2	21.20	21.70	38.45	-16.75
				6	0	20.15	20.65	38.45	-17.8
	26797	824.7	64QAM	1	0	21.73	22.23	38.45	-16.22
				1	5	21.63	22.13	38.45	-16.32
				3	2	21.55	22.05	38.45	-16.4
				6	0	20.34	20.84	38.45	-17.61
	26915	836.5	64QAM	1	0	21.13	21.63	38.45	-16.82
				1	5	21.63	22.13	38.45	-16.32
				3	2	21.34	21.84	38.45	-16.61
				6	0	20.37	20.87	38.45	-17.58
	27033	848.3	64QAM	1	0	21.07	21.57	38.45	-16.88
				1	5	21.83	22.33	38.45	-16.12
				3	2	21.17	21.67	38.45	-16.78
				6	0	20.12	20.62	38.45	-17.83

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Antenna gain (dBi) 0.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26455	825.5	QPSK	1	0	22.54	23.04	38.45	-15.41
				1	14	22.47	22.97	38.45	-15.48
				8	4	21.36	21.86	38.45	-16.59
				15	0	21.47	21.97	38.45	-16.48
	26915	836.5	QPSK	1	0	22.31	22.81	38.45	-15.64
				1	14	22.50	23.00	38.45	-15.45
				8	4	21.43	21.93	38.45	-16.52
				15	0	21.34	21.84	38.45	-16.61
	27025	847.5	QPSK	1	0	22.28	22.78	38.45	-15.67
				1	14	22.10	22.60	38.45	-15.85
				8	4	21.16	21.66	38.45	-16.79
				15	0	21.21	21.71	38.45	-16.74
	26455	825.5	16QAM	1	0	21.95	22.45	38.45	-16
				1	14	21.43	21.93	38.45	-16.52
				8	4	20.26	20.76	38.45	-17.69
				15	0	20.60	21.10	38.45	-17.35
	26915	836.5	16QAM	1	0	21.78	22.28	38.45	-16.17
				1	14	21.91	22.41	38.45	-16.04
				8	4	20.54	21.04	38.45	-17.41
				15	0	20.58	21.08	38.45	-17.37
	27025	847.5	16QAM	1	0	21.69	22.19	38.45	-16.26
				1	14	21.27	21.77	38.45	-16.68
				8	4	20.11	20.61	38.45	-17.84
				15	0	20.11	20.61	38.45	-17.84
	26455	825.5	64QAM	1	0	21.84	22.34	38.45	-16.11
				1	14	21.32	21.82	38.45	-16.63
				8	4	20.15	20.65	38.45	-17.8
				15	0	20.49	20.99	38.45	-17.46
	26915	836.5	64QAM	1	0	21.67	22.17	38.45	-16.28
				1	14	21.80	22.30	38.45	-16.15
				8	4	20.43	20.93	38.45	-17.52
				15	0	20.47	20.97	38.45	-17.48
	27025	847.5	64QAM	1	0	21.58	22.08	38.45	-16.37
				1	14	21.16	21.66	38.45	-16.79
				8	4	20.00	20.50	38.45	-17.95
				15	0	20.00	20.50	38.45	-17.95

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Antenna gain (dBi)

0.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	22.35	22.85	38.45	-15.6
				1	24	22.20	22.70	38.45	-15.75
				12	6	21.32	21.82	38.45	-16.63
				25	0	21.33	21.83	38.45	-16.62
	26915	836.5	QPSK	1	0	22.50	23.00	38.45	-15.45
				1	24	22.15	22.65	38.45	-15.8
				12	6	21.36	21.86	38.45	-16.59
				25	0	21.44	21.94	38.45	-16.51
	27015	846.5	QPSK	1	0	22.38	22.88	38.45	-15.57
				1	24	22.12	22.62	38.45	-15.83
				12	6	21.22	21.72	38.45	-16.73
				25	0	21.24	21.74	38.45	-16.71
	26815	826.5	16QAM	1	0	21.89	22.39	38.45	-16.06
				1	24	21.42	21.92	38.45	-16.53
				12	6	20.37	20.87	38.45	-17.58
				25	0	20.39	20.89	38.45	-17.56
	26915	836.5	16QAM	1	0	21.22	21.72	38.45	-16.73
				1	24	21.60	22.10	38.45	-16.35
				12	6	20.31	20.81	38.45	-17.64
				25	0	20.57	21.07	38.45	-17.38
	27015	846.5	16QAM	1	0	22.02	22.52	38.45	-15.93
				1	24	21.17	21.67	38.45	-16.78
				12	6	20.20	20.70	38.45	-17.75
				25	0	20.28	20.78	38.45	-17.67
	26815	826.5	64QAM	1	0	21.82	22.32	38.45	-16.13
				1	24	21.35	21.85	38.45	-16.6
				12	6	20.30	20.80	38.45	-17.65
				25	0	20.32	20.82	38.45	-17.63
	26915	836.5	64QAM	1	0	21.15	21.65	38.45	-16.8
				1	24	21.53	22.03	38.45	-16.42
				12	6	20.24	20.74	38.45	-17.71
				25	0	20.50	21.00	38.45	-17.45
	27015	846.5	64QAM	1	0	21.95	22.45	38.45	-16
				1	24	21.10	21.60	38.45	-16.85
				12	6	20.13	20.63	38.45	-17.82
				25	0	20.21	20.71	38.45	-17.74

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Antenna gain (dBi) 0.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	22.55	23.05	38.45	-15.4
				1	49	22.30	22.80	38.45	-15.65
				25	12	21.25	21.75	38.45	-16.7
				50	0	21.42	21.92	38.45	-16.53
	26915	836.5	QPSK	1	0	22.40	22.90	38.45	-15.55
				1	49	22.12	22.62	38.45	-15.83
				25	12	21.37	21.87	38.45	-16.58
				50	0	21.47	21.97	38.45	-16.48
	26990	844	QPSK	1	0	22.40	22.90	38.45	-15.55
				1	49	22.17	22.67	38.45	-15.78
				25	12	21.35	21.85	38.45	-16.6
				50	0	21.33	21.83	38.45	-16.62
	26840	829	16QAM	1	0	21.46	21.96	38.45	-16.49
				1	49	21.90	22.40	38.45	-16.05
				25	12	20.42	20.92	38.45	-17.53
				50	0	20.45	20.95	38.45	-17.5
	26915	836.5	16QAM	1	0	21.78	22.28	38.45	-16.17
				1	49	21.30	21.80	38.45	-16.65
				25	12	20.42	20.92	38.45	-17.53
				50	0	20.44	20.94	38.45	-17.51
	26990	844	16QAM	1	0	21.93	22.43	38.45	-16.02
				1	49	20.88	21.38	38.45	-17.07
				25	12	20.46	20.96	38.45	-17.49
				50	0	20.33	20.83	38.45	-17.62
	26840	829	64QAM	1	0	21.41	21.91	38.45	-16.54
				1	49	21.85	22.35	38.45	-16.1
				25	12	20.37	20.87	38.45	-17.58
				50	0	20.40	20.90	38.45	-17.55
	26915	836.5	64QAM	1	0	21.73	22.23	38.45	-16.22
				1	49	21.25	21.75	38.45	-16.7
				25	12	20.37	20.87	38.45	-17.58
				50	0	20.39	20.89	38.45	-17.56
	26990	844	64QAM	1	0	21.88	22.38	38.45	-16.07
				1	49	20.83	21.33	38.45	-17.12
				25	12	20.41	20.91	38.45	-17.54
				50	0	20.28	20.78	38.45	-17.67

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Antenna gain (dBi) 0.5

LTE Band 26_Uplink frequency band : 824 to 849 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	22.56	23.06	38.45	-15.39
				1	74	22.34	22.84	38.45	-15.61
				36	19	21.29	21.79	38.45	-16.66
				75	0	21.37	21.87	38.45	-16.58
	26915	836.5	QPSK	1	0	22.44	22.94	38.45	-15.51
				1	74	22.30	22.80	38.45	-15.65
				36	19	21.33	21.83	38.45	-16.62
				75	0	21.49	21.99	38.45	-16.46
	26965	841.5	QPSK	1	0	22.27	22.77	38.45	-15.68
				1	74	22.16	22.66	38.45	-15.79
				36	19	21.31	21.81	38.45	-16.64
				75	0	21.39	21.89	38.45	-16.56
	26865	831.5	16QAM	1	0	21.63	22.13	38.45	-16.32
				1	74	21.39	21.89	38.45	-16.56
				36	19	20.25	20.75	38.45	-17.7
				75	0	20.47	20.97	38.45	-17.48
	26915	836.5	16QAM	1	0	21.71	22.21	38.45	-16.24
				1	74	21.93	22.43	38.45	-16.02
				36	19	20.34	20.84	38.45	-17.61
				75	0	20.41	20.91	38.45	-17.54
	26965	841.5	16QAM	1	0	21.41	21.91	38.45	-16.54
				1	74	21.12	21.62	38.45	-16.83
				36	19	20.41	20.91	38.45	-17.54
				75	0	20.40	20.90	38.45	-17.55
	26865	831.5	64QAM	1	0	21.57	22.07	38.45	-16.38
				1	74	21.33	21.83	38.45	-16.62
				36	19	20.19	20.69	38.45	-17.76
				75	0	20.41	20.91	38.45	-17.54
	26915	836.5	64QAM	1	0	21.65	22.15	38.45	-16.3
				1	74	21.87	22.37	38.45	-16.08
				36	19	20.28	20.78	38.45	-17.67
				75	0	20.35	20.85	38.45	-17.6
	26965	841.5	64QAM	1	0	21.35	21.85	38.45	-16.6
				1	74	21.06	21.56	38.45	-16.89
				36	19	20.35	20.85	38.45	-17.6
				75	0	20.34	20.84	38.45	-17.61

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Antenna gain (dBi) 0.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 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	26697	814.7	QPSK	1	0	22.29	22.79	50	-27.21
				1	5	22.32	22.82	50	-27.18
				3	2	22.28	22.78	50	-27.22
				6	0	21.42	21.92	50	-28.08
	26740	819	QPSK	1	0	22.48	22.98	50	-27.02
				1	5	22.36	22.86	50	-27.14
				3	2	22.48	22.98	50	-27.02
				6	0	21.28	21.78	50	-28.22
	26783	823.3	QPSK	1	0	22.31	22.81	50	-27.19
				1	5	22.24	22.74	50	-27.26
				3	2	22.20	22.70	50	-27.3
				6	0	21.00	21.50	50	-28.5
	26697	814.7	16QAM	1	0	21.19	21.69	50	-28.31
				1	5	21.12	21.62	50	-28.38
				3	2	21.30	21.80	50	-28.2
				6	0	20.22	20.72	50	-29.28
	26740	819	16QAM	1	0	21.46	21.96	50	-28.04
				1	5	21.29	21.79	50	-28.21
				3	2	21.32	21.82	50	-28.18
				6	0	20.22	20.72	50	-29.28
	26783	823.3	16QAM	1	0	21.24	21.74	50	-28.26
				1	5	21.34	21.84	50	-28.16
				3	2	21.18	21.68	50	-28.32
				6	0	20.15	20.65	50	-29.35
	26697	814.7	64QAM	1	0	20.86	21.36	50	-28.64
				1	5	21.53	22.03	50	-27.97
				3	2	21.33	21.83	50	-28.17
				6	0	20.50	21.00	50	-29
	26740	819	64QAM	1	0	21.32	21.82	50	-28.18
				1	5	21.15	21.65	50	-28.35
				3	2	21.61	22.11	50	-27.89
				6	0	20.45	20.95	50	-29.05
	26783	823.3	64QAM	1	0	21.02	21.52	50	-28.48
				1	5	21.22	21.72	50	-28.28
				3	2	21.42	21.92	50	-28.08
				6	0	20.51	21.01	50	-28.99

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Antenna gain (dBi) 0.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.61	23.11	50	-26.89
				1	14	22.54	23.04	50	-26.96
				8	4	21.41	21.91	50	-28.09
				15	0	21.37	21.87	50	-28.13
	26740	819	QPSK	1	0	22.60	23.10	50	-26.9
				1	14	22.32	22.82	50	-27.18
				8	4	21.47	21.97	50	-28.03
				15	0	21.42	21.92	50	-28.08
	26775	822.5	QPSK	1	0	22.11	22.61	50	-27.39
				1	14	22.56	23.06	50	-26.94
				8	4	21.36	21.86	50	-28.14
				15	0	21.33	21.83	50	-28.17
	26705	815.5	16QAM	1	0	21.60	22.10	50	-27.9
				1	14	20.87	21.37	50	-28.63
				8	4	20.54	21.04	50	-28.96
				15	0	20.25	20.75	50	-29.25
	26740	819	16QAM	1	0	21.48	21.98	50	-28.02
				1	14	21.16	21.66	50	-28.34
				8	4	20.48	20.98	50	-29.02
				15	0	20.38	20.88	50	-29.12
	26775	822.5	16QAM	1	0	21.64	22.14	50	-27.86
				1	14	21.60	22.10	50	-27.9
				8	4	20.17	20.67	50	-29.33
				15	0	20.17	20.67	50	-29.33
	26705	815.5	64QAM	1	0	20.86	21.36	50	-28.64
				1	14	21.14	21.64	50	-28.36
				8	4	20.18	20.68	50	-29.32
				15	0	20.26	20.76	50	-29.24
	26740	819	64QAM	1	0	21.29	21.79	50	-28.21
				1	14	21.11	21.61	50	-28.39
				8	4	20.29	20.79	50	-29.21
				15	0	20.26	20.76	50	-29.24
	26775	822.5	64QAM	1	0	21.43	21.93	50	-28.07
				1	14	21.20	21.70	50	-28.3
				8	4	20.29	20.79	50	-29.21
				15	0	20.31	20.81	50	-29.19

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Antenna gain (dBi) 0.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	23.52	24.02	50	-25.98
				1	24	23.38	23.88	50	-26.12
				12	6	22.25	22.75	50	-27.25
				25	0	22.22	22.72	50	-27.28
	26740	819	QPSK	1	0	23.46	23.96	50	-26.04
				1	24	23.28	23.78	50	-26.22
				12	6	22.28	22.78	50	-27.22
				25	0	22.33	22.83	50	-27.17
	26765	821.5	QPSK	1	0	23.41	23.91	50	-26.09
				1	24	23.35	23.85	50	-26.15
				12	6	22.19	22.69	50	-27.31
				25	0	22.21	22.71	50	-27.29
	26715	816.5	16QAM	1	0	22.08	22.58	50	-27.42
				1	24	22.01	22.51	50	-27.49
				12	6	21.20	21.70	50	-28.3
				25	0	21.26	21.76	50	-28.24
	26740	819	16QAM	1	0	22.36	22.86	50	-27.14
				1	24	22.06	22.56	50	-27.44
				12	6	21.16	21.66	50	-28.34
				25	0	21.44	21.94	50	-28.06
	26765	821.5	16QAM	1	0	21.99	22.49	50	-27.51
				1	24	22.09	22.59	50	-27.41
				12	6	21.11	21.61	50	-28.39
				25	0	21.22	21.72	50	-28.28
	26715	816.5	64QAM	1	0	22.52	23.02	50	-26.98
				1	24	21.54	22.04	50	-27.96
				12	6	21.10	21.60	50	-28.4
				25	0	21.23	21.73	50	-28.27
	26740	819	64QAM	1	0	22.57	23.07	50	-26.93
				1	24	21.79	22.29	50	-27.71
				12	6	21.11	21.61	50	-28.39
				25	0	21.19	21.69	50	-28.31
	26765	821.5	64QAM	1	0	21.98	22.48	50	-27.52
				1	24	21.81	22.31	50	-27.69
				12	6	21.17	21.67	50	-28.33
				25	0	21.17	21.67	50	-28.33

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Antenna gain (dBi) 0.5

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.62	23.12	50	-26.88
				1	49	22.63	23.13	50	-26.87
				25	12	21.33	21.83	50	-28.17
				50	0	21.30	21.80	50	-28.2
	26740	819	16QAM	1	0	21.44	21.94	50	-28.06
				1	49	21.36	21.86	50	-28.14
				25	12	20.36	20.86	50	-29.14
				50	0	20.49	20.99	50	-29.01
	26740	819	64QAM	1	0	21.31	21.81	50	-28.19
				1	49	20.99	21.49	50	-28.51
				25	12	20.50	21.00	50	-29
				50	0	20.36	20.86	50	-29.14

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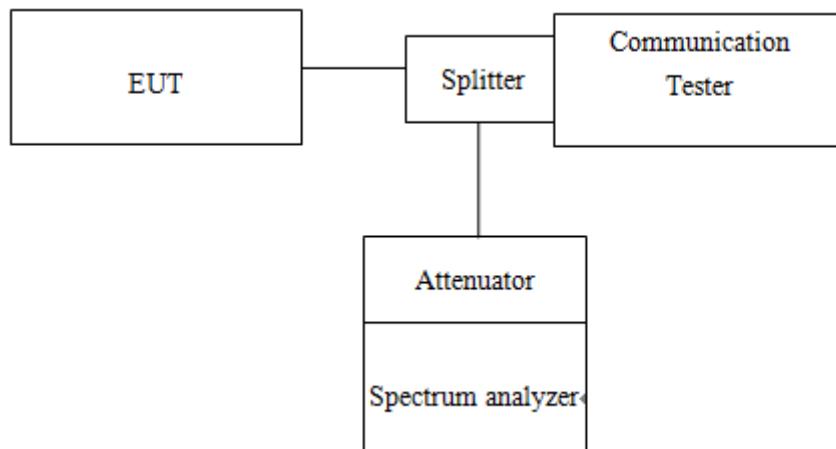
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7. OCCUPIED BANDWIDTH MEASUREMENT

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%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF229	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF230	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF231	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

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	1.1012	1.1066	1.1017	1.3163	1.3380	1.3257	
1880.0	18900	1.0985	1.1028	1.1104	1.3099	1.3454	1.3416	
1909.3	19193	1.1025	1.1031	1.1096	1.2991	1.3226	1.3096	

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	2.7173	2.7123	2.7192	3.0162	3.0111	2.9961	
1880.0	18900	2.7161	2.7225	2.7197	3.0522	3.0142	2.9984	
1908.5	19185	2.7069	2.7153	2.7144	3.0077	3.0056	3.0131	

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	4.5316	4.5248	4.5251	5.0270	5.0016	5.0797	
1880.0	18900	4.5175	4.5126	4.5269	5.0322	5.0294	5.0354	
1907.5	19175	4.5258	4.5156	4.5160	5.0646	5.0406	5.0079	

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	8.9899	9.0131	9.0106	9.959	9.974	9.948	
1880.0	18900	8.9990	9.0060	8.9943	9.987	9.997	9.966	
1905.0	19150	8.9836	8.9812	8.9721	9.978	9.794	9.775	

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	13.508	13.497	13.489	14.796	14.843	14.715	
1880.0	18900	13.522	13.471	13.487	14.779	14.605	14.734	
1902.5	19125	13.494	13.455	13.468	14.717	14.782	14.656	

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	18.011	17.953	17.984	19.457	19.459	19.643	
1880.0	18900	17.961	17.952	17.970	19.616	19.495	19.423	
1900.0	19100	17.920	17.974	17.925	19.611	19.476	19.478	

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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	1.0962	1.1038	1.1047	1.3202	1.3253	1.3463
1732.5	20175	1.0995	1.1021	1.1023	1.3141	1.3556	1.3165
1754.3	20393	1.1012	1.1037	1.1063	1.3288	1.3302	1.3242

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	2.7112	2.7127	2.7151	3.0342	3.0093	3.0162
1732.5	20175	2.7097	2.7138	2.7060	3.0234	2.9767	2.9965
1753.5	20385	2.7151	2.7266	2.7197	3.0281	3.0329	3.0244

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	4.5275	4.5294	4.5392	5.0580	5.0452	5.0580
1732.5	20175	4.5190	4.5117	4.5241	5.0570	4.9770	5.0608
1752.5	20375	4.5212	4.5226	4.5250	5.0207	5.0654	5.0431

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	8.9976	8.9930	9.0075	9.963	9.920	9.923
1732.5	20175	9.0143	8.9949	8.9971	9.942	9.963	9.914
1750.0	20350	8.9911	8.9998	9.0048	10.057	9.904	9.960

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	13.508	13.511	13.525	14.969	14.765	14.803
1732.5	20175	13.534	13.496	13.500	14.806	14.698	14.724
1747.5	20325	13.519	13.474	13.501	14.868	14.835	14.745

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	17.971	17.946	17.948	19.586	19.534	19.483
1732.5	20175	17.981	17.971	17.963	19.546	19.468	19.529
1745.0	20300	17.959	17.951	17.951	19.619	19.615	19.367

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	1.1001	1.1033	1.0990	1.2995	1.3033	1.2960
836.5	20525	1.0977	1.1056	1.1063	1.3047	1.3114	1.3156
848.3	20643	1.1039	1.1041	1.1054	1.3199	1.3208	1.3125

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	2.7194	2.7178	2.7098	3.0052	2.9991	3.0023
836.5	20525	2.7161	2.7046	2.7249	3.0015	3.0049	3.0158
847.5	20635	2.7122	2.7314	2.7219	3.0308	3.0037	3.0156

LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.1053	1.1058	1.1038	1.2964	1.3060	1.3173
707.5	23095	1.0998	1.0979	1.0990	1.2980	1.3095	1.3125
715.3	23173	1.0992	1.0999	1.1023	1.2843	1.3046	1.3130

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.7160	2.7174	2.7126	3.0172	2.9938	2.9794
707.5	23095	2.7158	2.7093	2.7151	3.0013	3.0143	2.9917
714.5	23165	2.7063	2.7089	2.7179	2.9917	3.0092	3.0067

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.5429	4.5215	4.5313	5.0238	5.0392	4.9865
707.5	23095	4.5291	4.5176	4.5219	5.0088	5.0128	4.9918
713.5	23155	4.5332	4.5185	4.5132	5.0409	5.0170	5.0577

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)			
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	8.9649	8.9585	8.9481	9.820	9.813	9.816
707.5	23095	8.9706	8.9636	8.9587	9.860	9.801	9.746
711.0	23130	9.0187	9.0352	9.0386	9.937	9.958	9.992

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LTE BAND 25 Channel bandwidth: 1.4MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1850.7	26047	1.1017	1.1029	1.1053	1.341	1.345
1882.5	26365	1.0987	1.1060	1.1049	1.326	1.332
1914.3	26683	1.0995	1.1057	1.1076	1.308	1.320

LTE BAND 25 Channel bandwidth: 3MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1851.5	26055	2.7141	2.7127	2.7200	3.028	3.030
1882.5	26365	2.7163	2.7150	2.7117	3.050	3.005
1913.5	26675	2.7041	2.7138	2.7172	3.030	3.025

LTE BAND 25 Channel bandwidth: 5MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1852.5	26065	4.5333	4.5258	4.5248	5.087	5.073
1882.5	26365	4.5340	4.5276	4.5241	5.094	5.110
1912.5	26665	4.5282	4.5238	4.5241	5.048	4.989

LTE BAND 25 Channel bandwidth: 10MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1855.0	26090	9.0100	9.0004	9.0144	9.962	9.875
1882.5	26365	8.9863	8.9895	8.9855	9.972	9.889
1910.0	26640	9.0237	9.0124	9.0099	9.955	9.948

LTE BAND 25 Channel bandwidth: 15MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1857.5	26115	13.503	13.538	13.502	14.75	14.88
1882.5	26365	13.501	13.496	13.516	14.84	14.82
1907.5	26615	13.510	13.526	13.519	14.73	14.72

LTE BAND 25 Channel bandwidth: 20MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
1860.0	26140	17.9520	17.9670	17.9730	19.547	19.459
1882.5	26365	17.9210	17.9340	17.9340	19.460	19.391
1905.0	26590	17.9150	17.9250	17.9250	19.514	19.349

LTE BAND 26 Channel bandwidth: 1.4MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
824.7	26797	1.1035	1.0994	1.0973	1.3020	1.2980
836.5	26915	1.1005	1.0959	1.0966	1.2860	1.3040
848.3	27033	1.1032	1.0986	1.0984	1.3090	1.3130

LTE BAND 26 Channel bandwidth: 3MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
825.5	26455	2.7133	2.7040	2.7061	3.0200	2.9890
836.5	26915	2.7128	2.7021	2.7026	3.0350	2.9820
847.5	27025	2.7173	2.7044	2.7085	3.0550	3.0200

LTE BAND 26 Channel bandwidth: 5MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
826.5	26815	4.5205	4.5063	4.5019	4.9660	4.9800
836.5	26915	4.5222	4.5155	4.4967	5.0250	4.9340
846.5	27015	4.5279	4.5106	4.5120	5.0000	5.0130

LTE BAND 26 Channel bandwidth: 10MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
829.0	26840	8.9862	9.0172	9.0115	9.966	9.974
836.5	26915	8.9588	8.9797	8.9877	9.896	9.837
844.0	26990	8.9609	8.9656	8.9553	9.938	9.872

LTE BAND 26 Channel bandwidth: 15MHz						
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)	
		QPSK	16QAM	64QAM	QPSK	16QAM
831.5	26865	13.512	13.504	13.513	14.780	14.890
836.5	26915	13.462	13.464	13.473	14.750	14.760
841.5	26965	13.450	13.437	13.435	14.710	14.830

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.1006	1.1016	1.1026	1.3170	1.3370	1.3250
819.0	26740	1.1057	1.1077	1.1070	1.3100	1.3140	1.3220
823.3	26783	1.1016	1.0992	1.0997	1.3060	1.2770	1.2950

LTE BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
815.5	26705	2.7198	2.7146	2.7161	3.0370	3.0170	3.0290
819.0	26740	2.7142	2.7231	2.7215	3.0450	3.0230	3.0280
822.5	26775	2.7113	2.7250	2.7139	3.0090	2.9970	2.9820

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.5412	4.5224	4.5348	5.0370	5.0450	5.0510
819.0	26740	4.5377	4.5385	4.5264	5.0140	5.0230	5.0500
821.5	26765	4.5310	4.5301	4.5171	5.0200	5.0200	5.0380

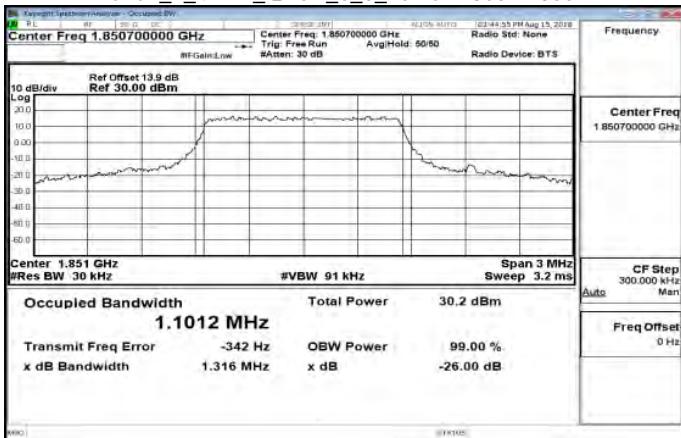
LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
819.0	26740	9.0135	9.1022	9.0249	9.956	9.970	9.962

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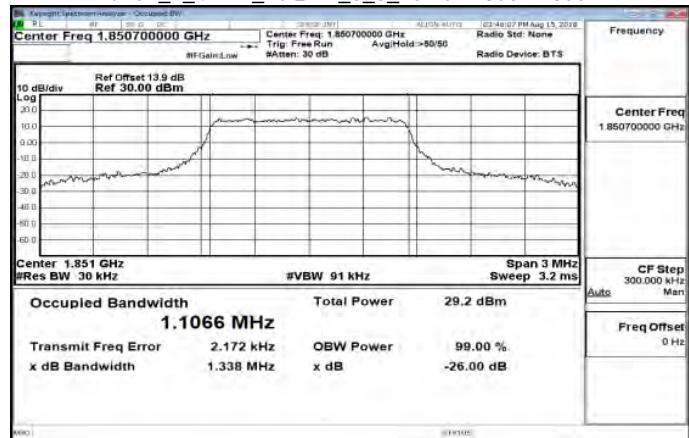
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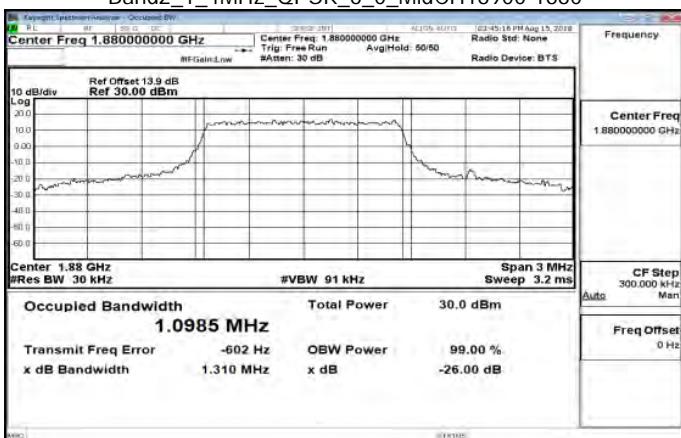
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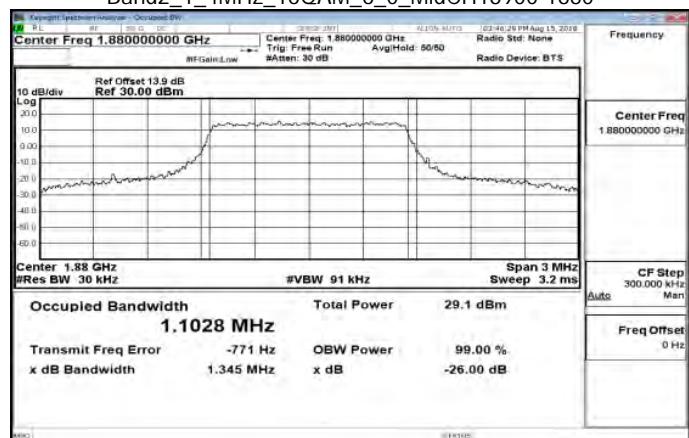
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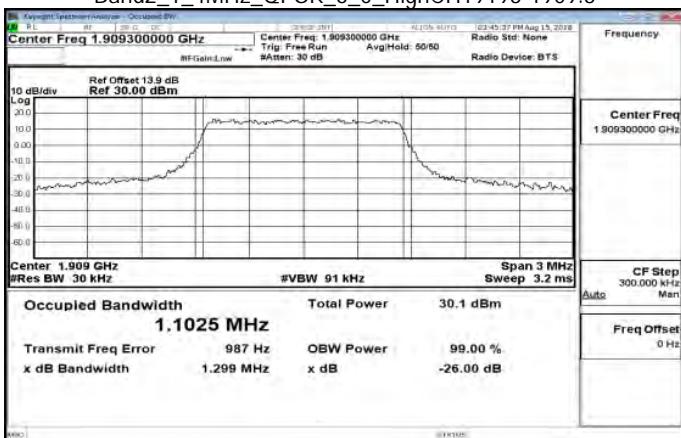
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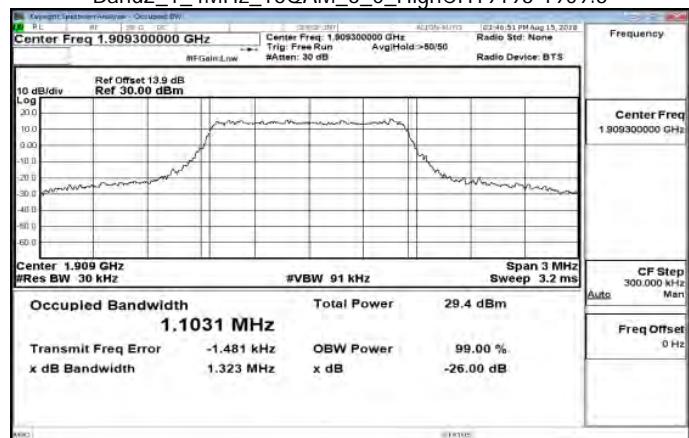
Band2 1 4MHz 16QAM 6 0 MidCH18900-1880



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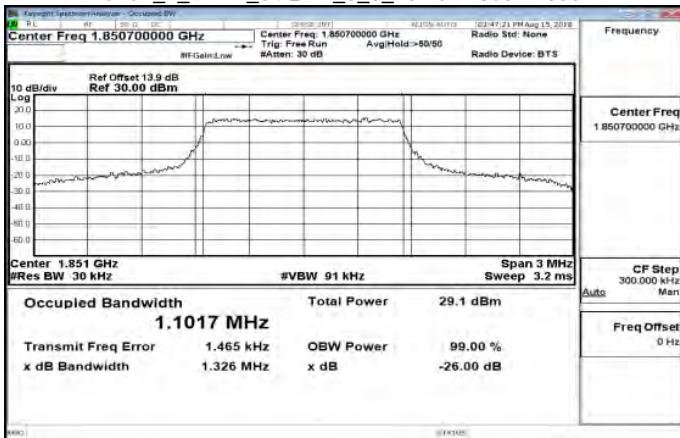
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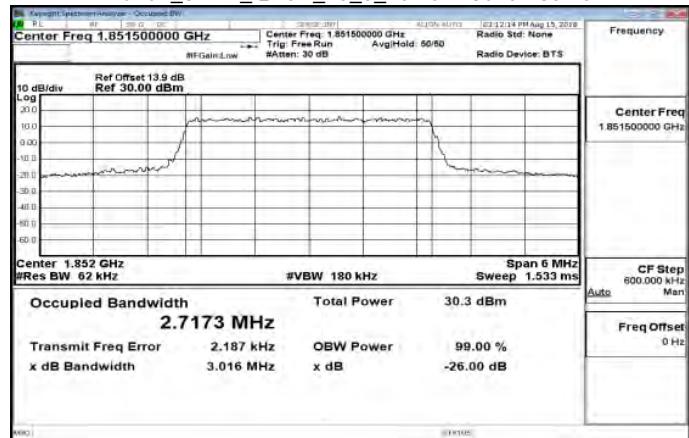
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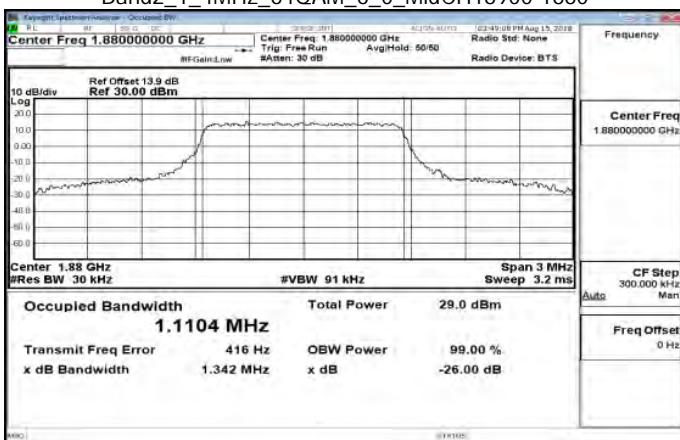
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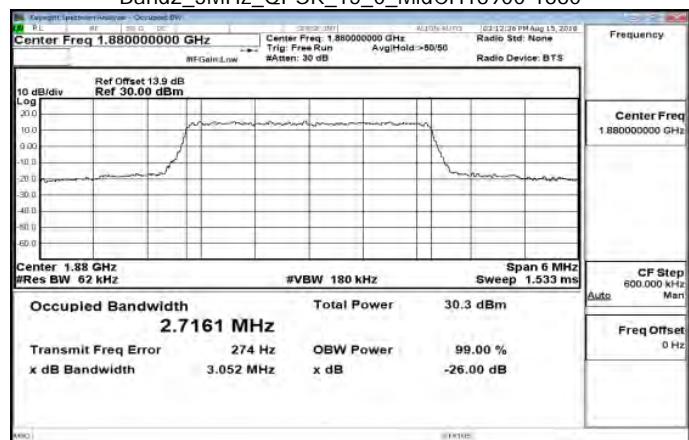
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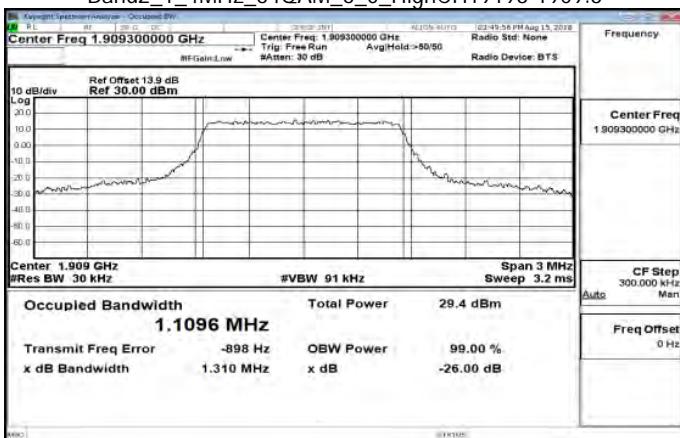
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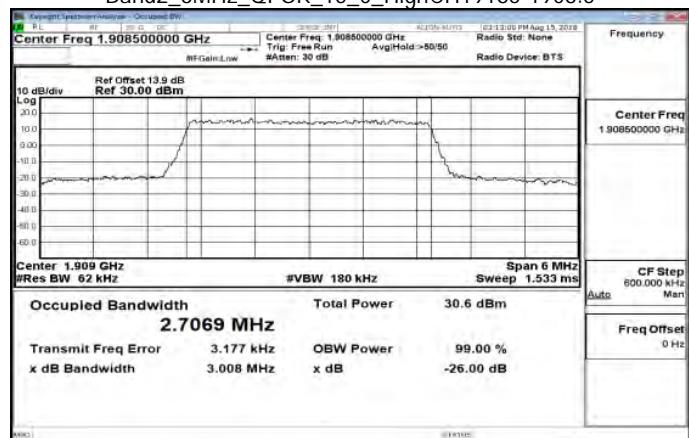
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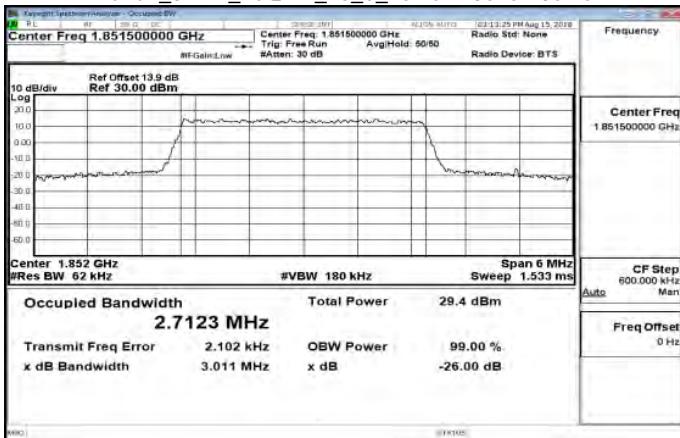
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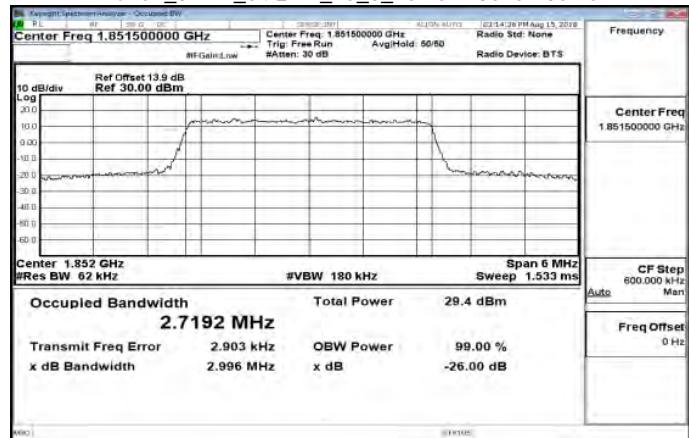
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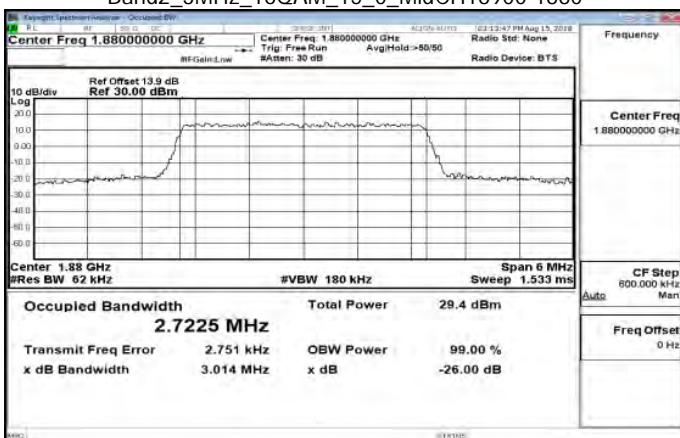
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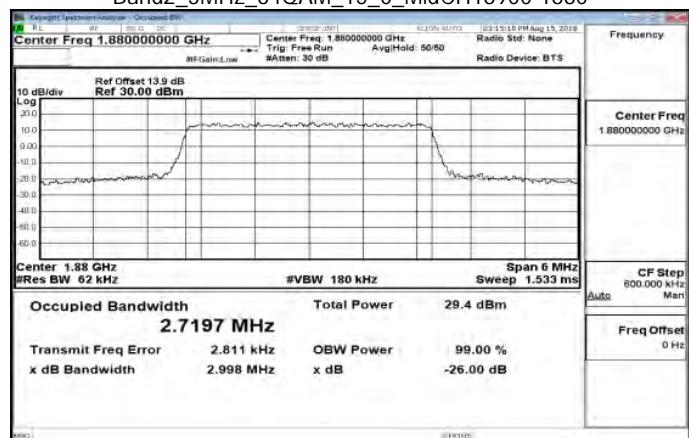
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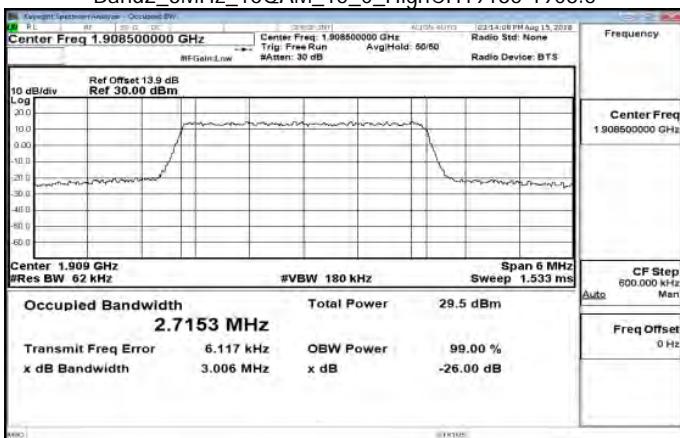
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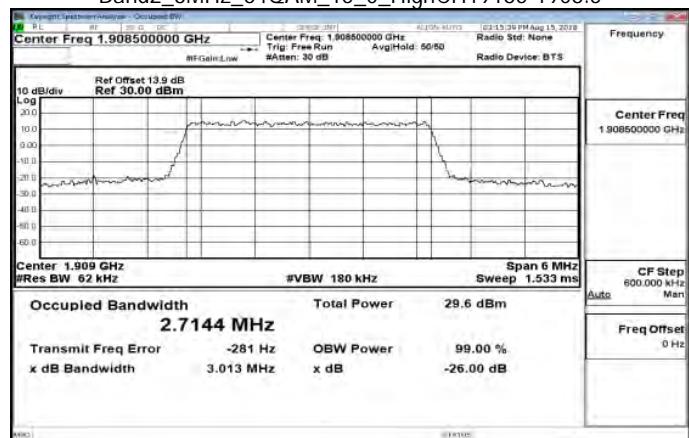
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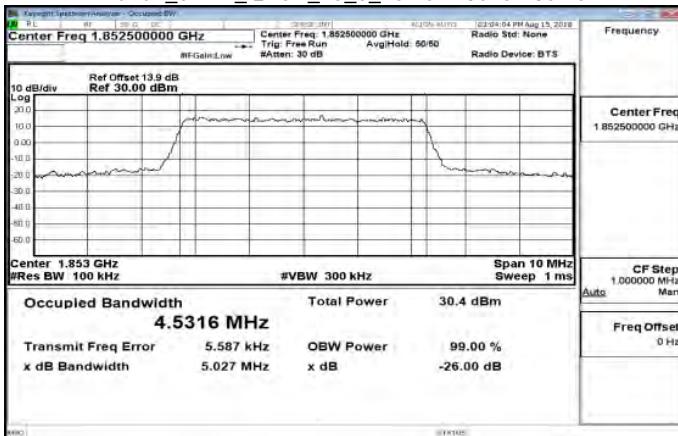
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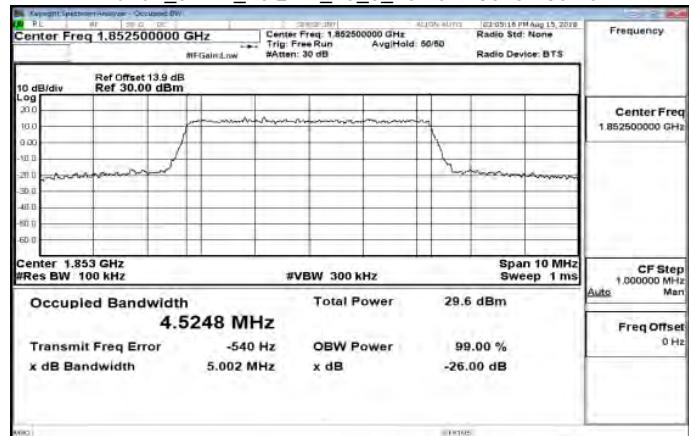
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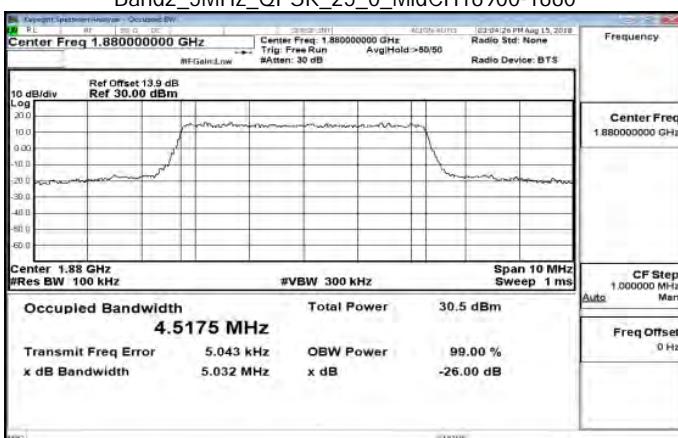
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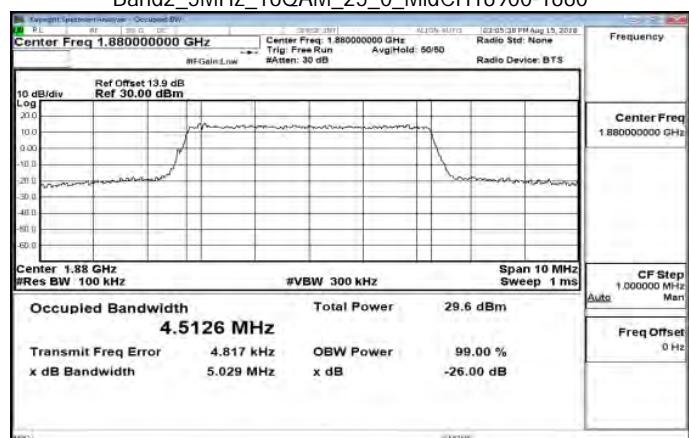
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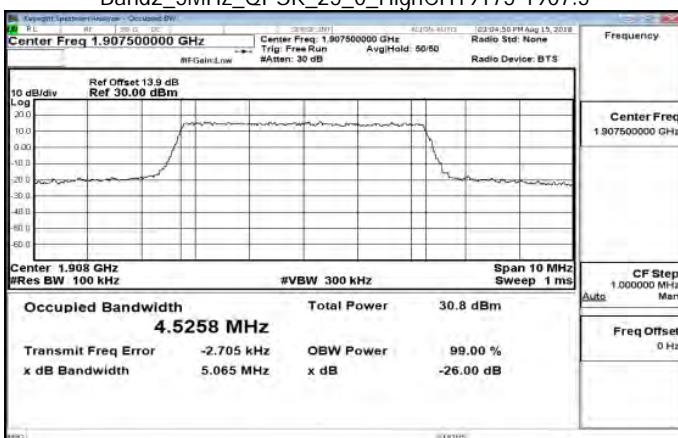
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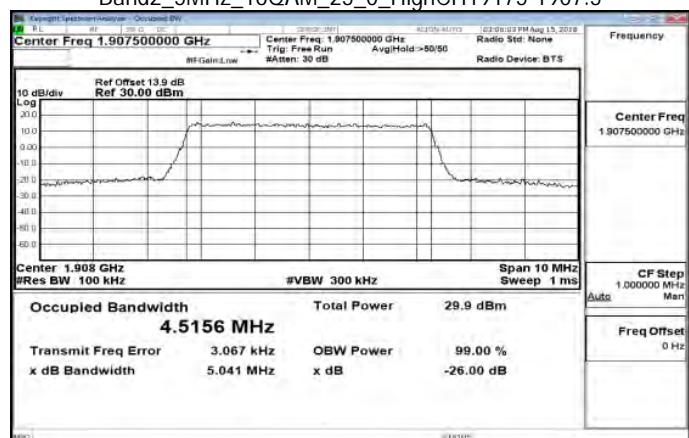
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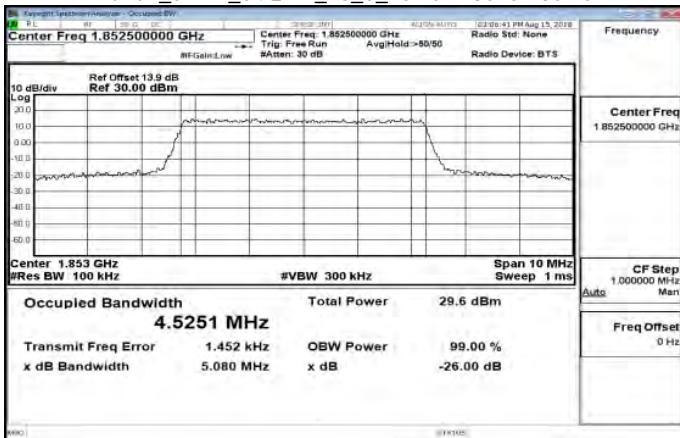
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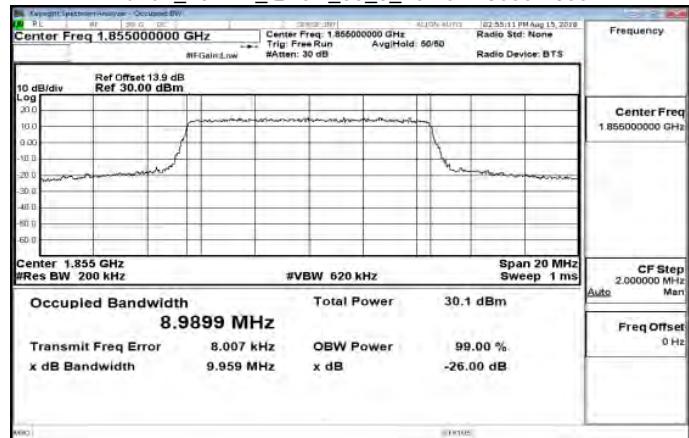
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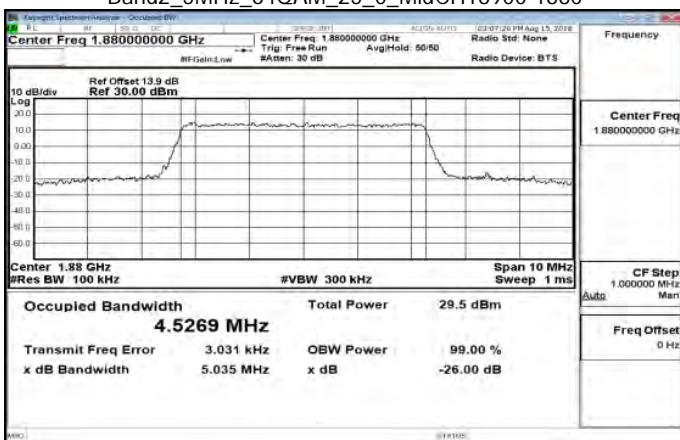
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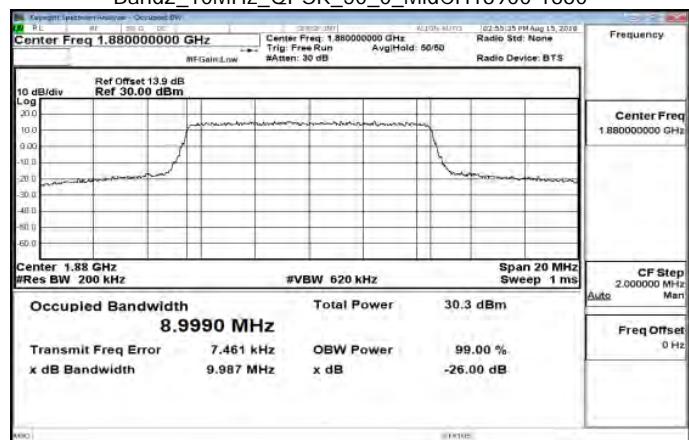
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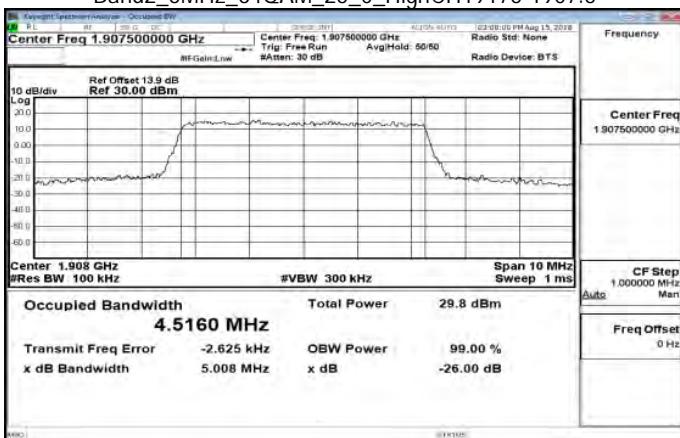
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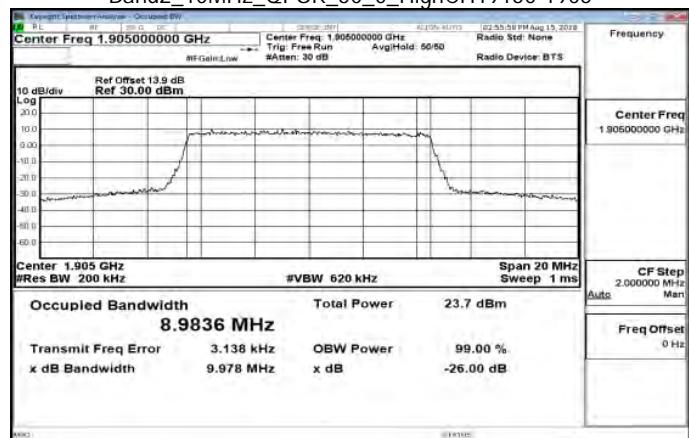
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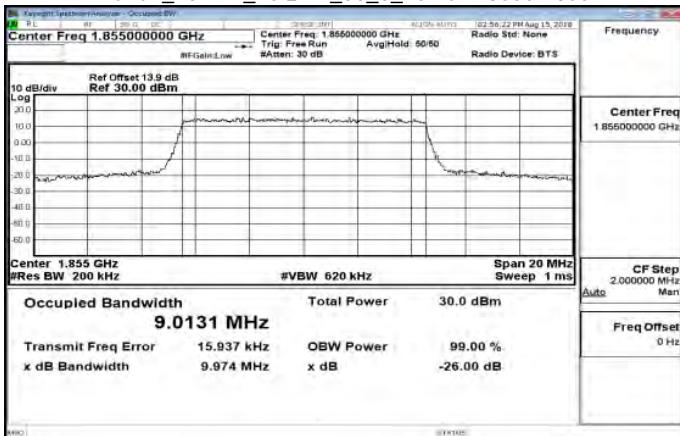
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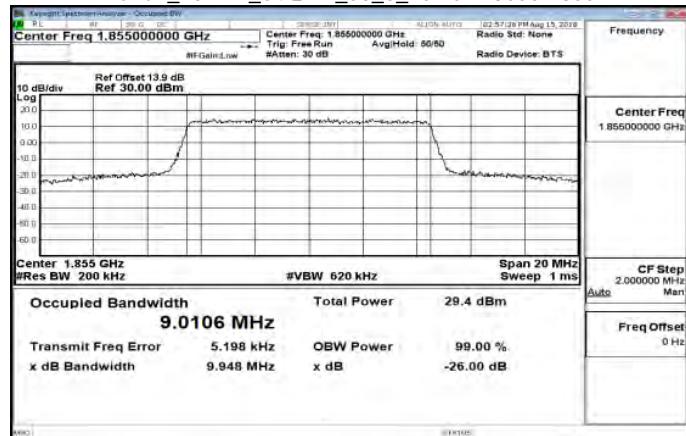
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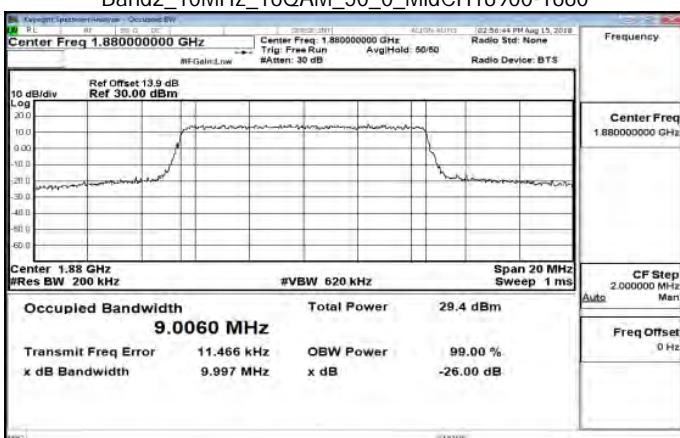
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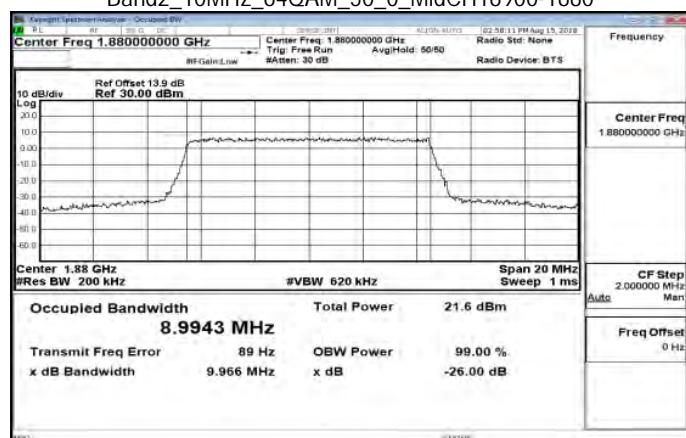
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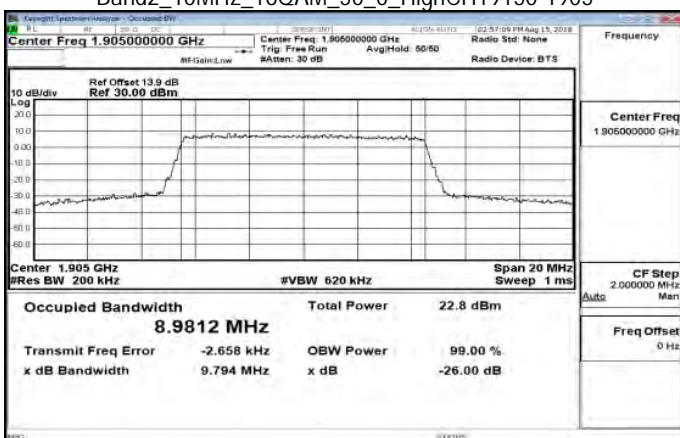
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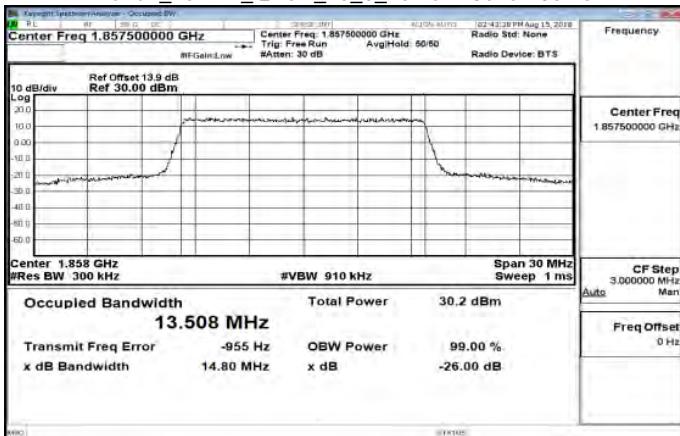
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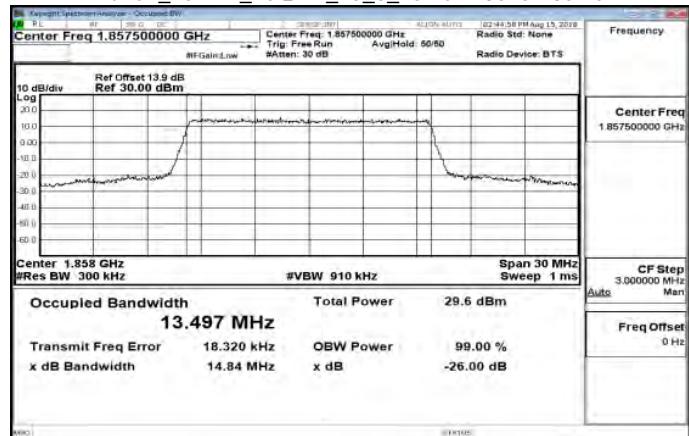
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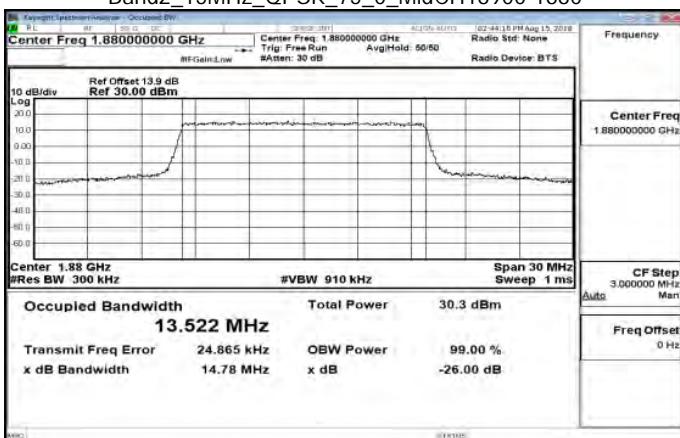
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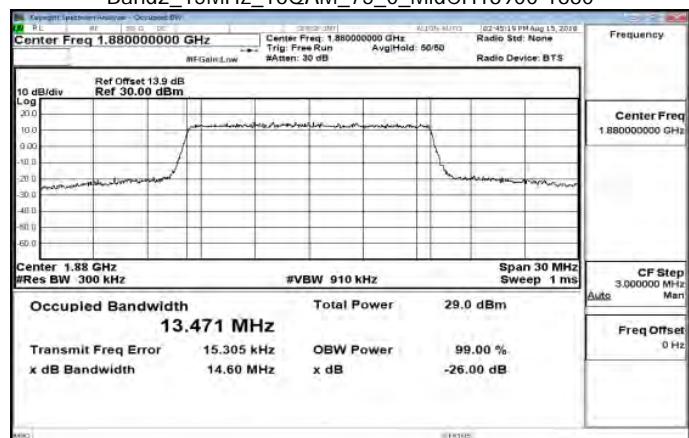
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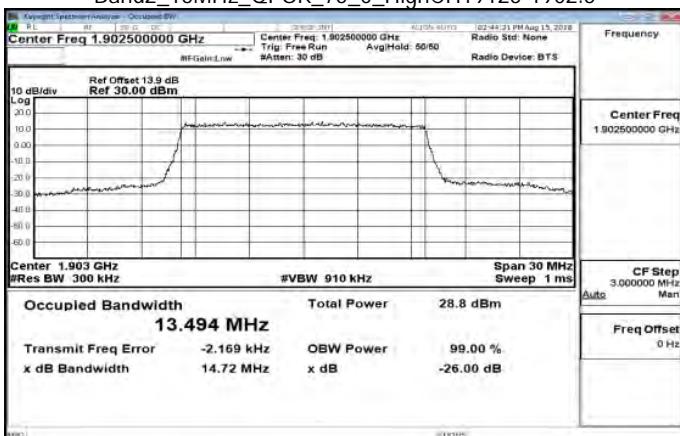
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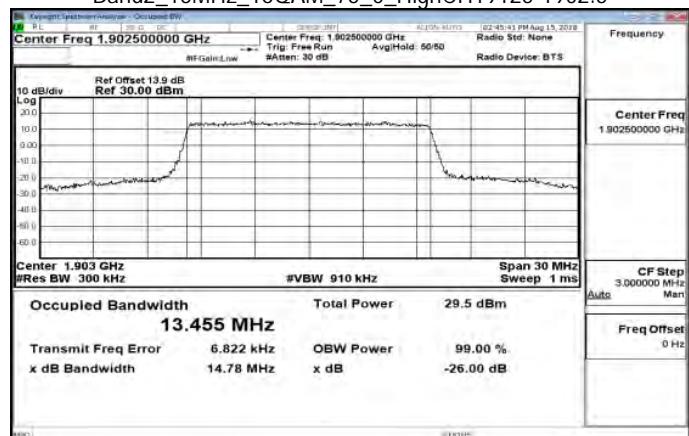
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Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



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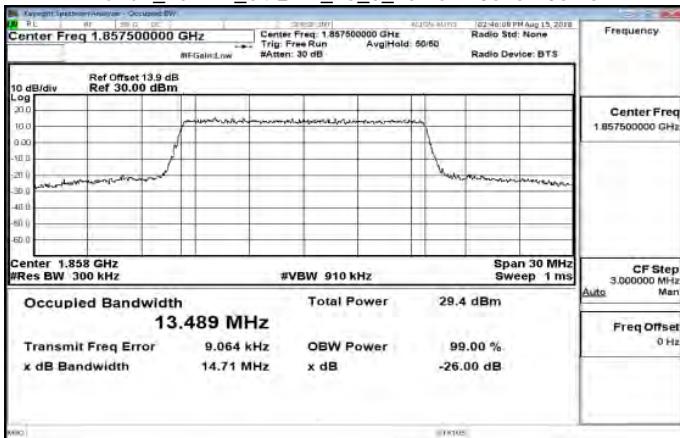
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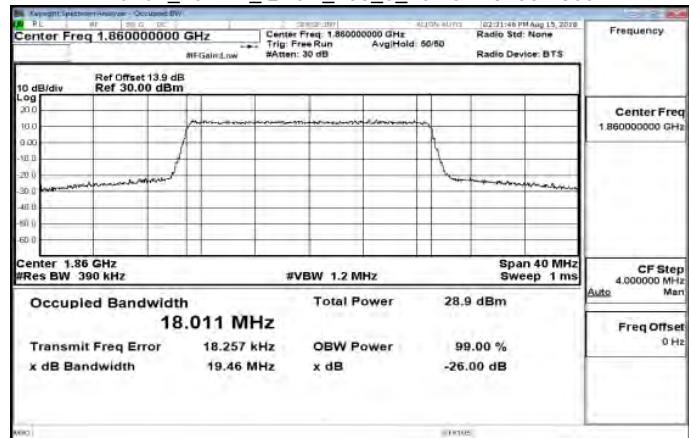
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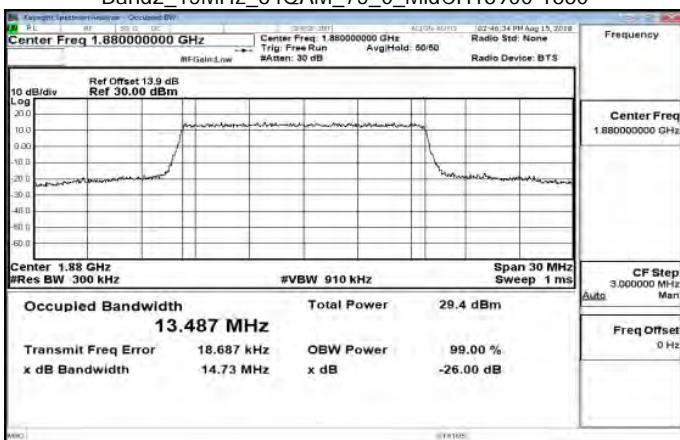
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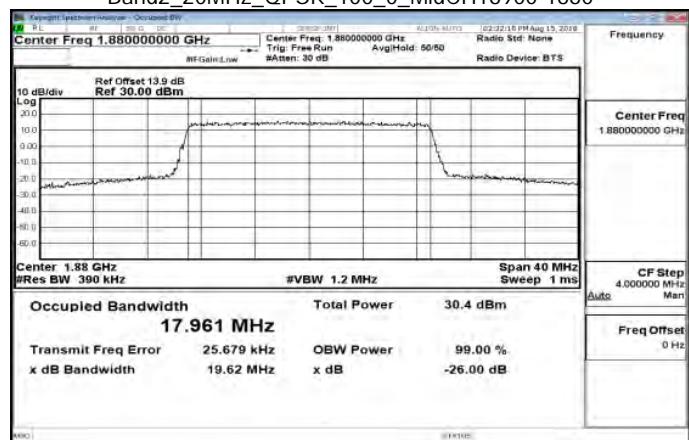
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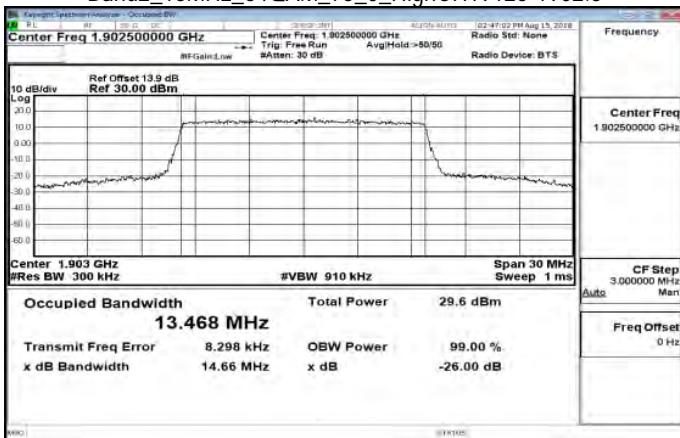
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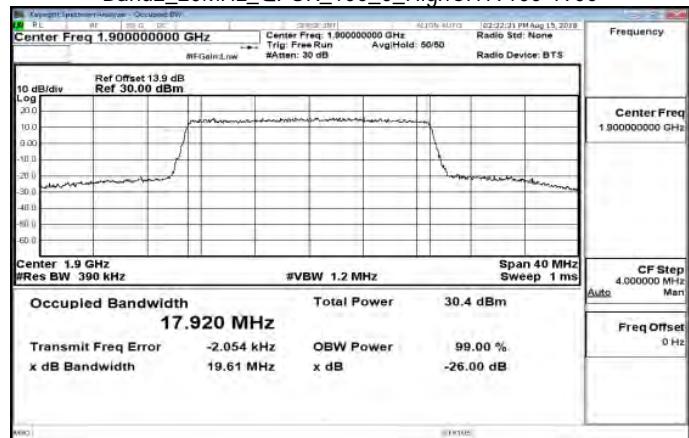
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Band2_15MHz_64QAM_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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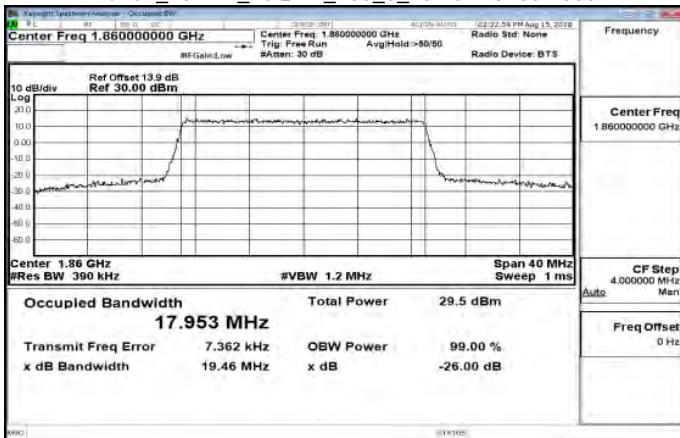
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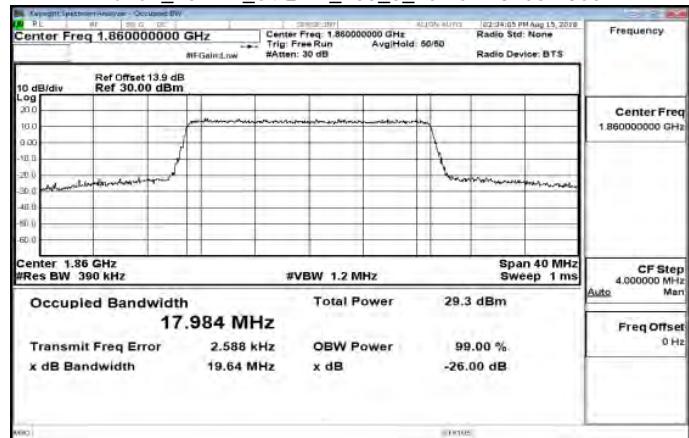
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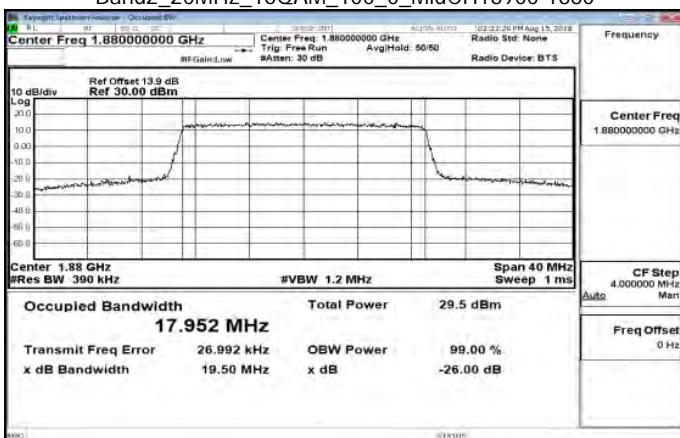
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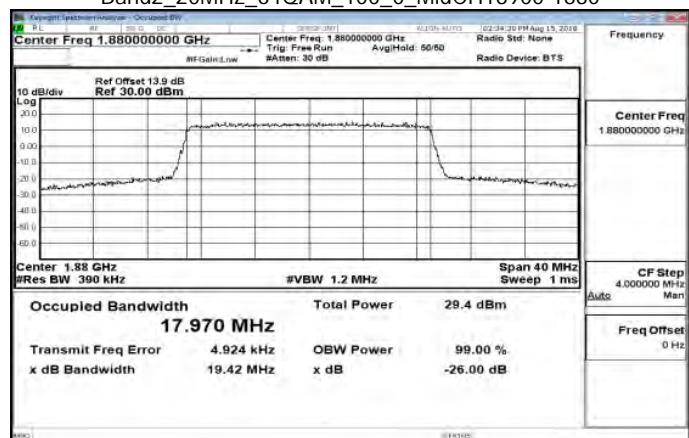
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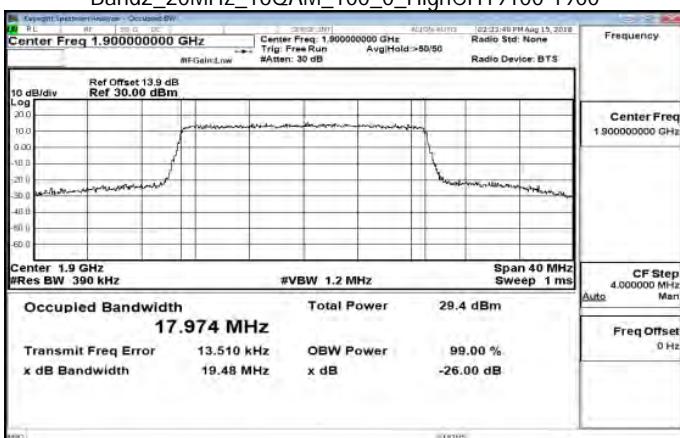
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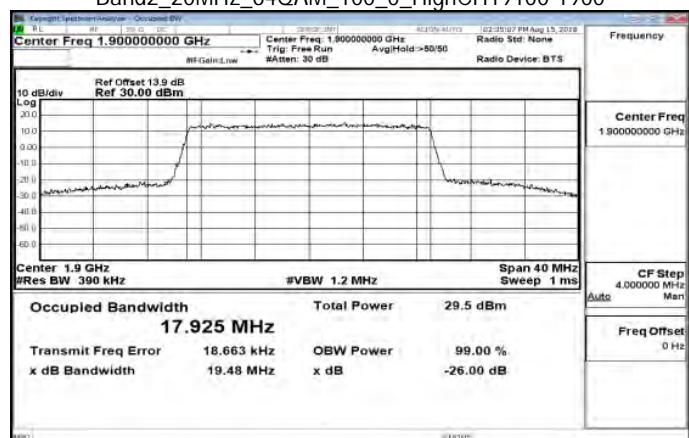
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Band2_20MHz_16QAM_100_0_HighCH19100-1900



Band2_20MHz_64QAM_100_0_HighCH19100-1900



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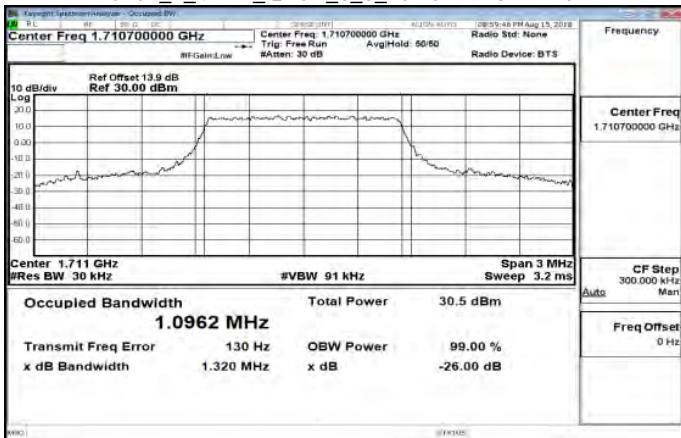
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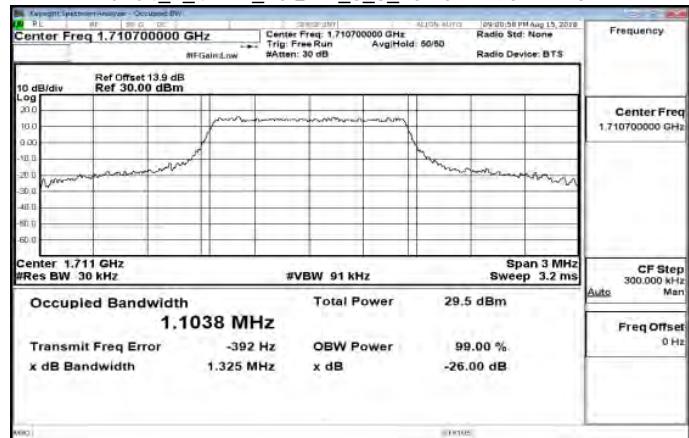
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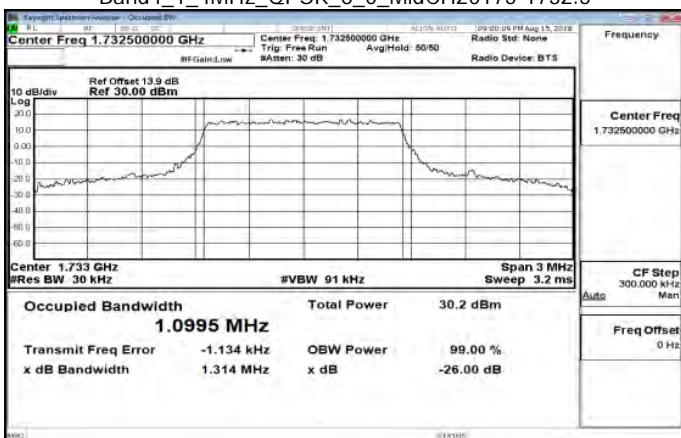
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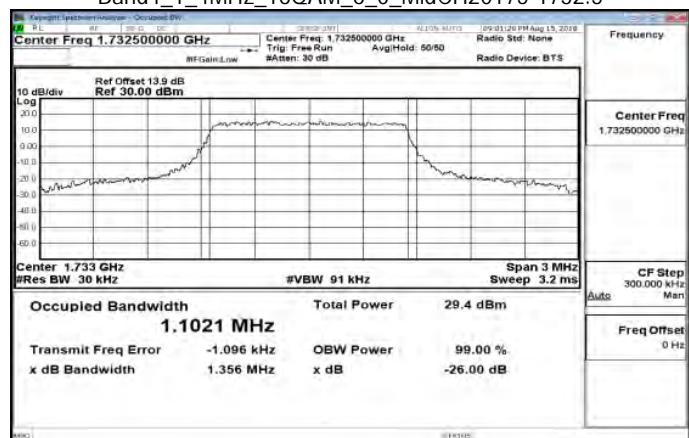
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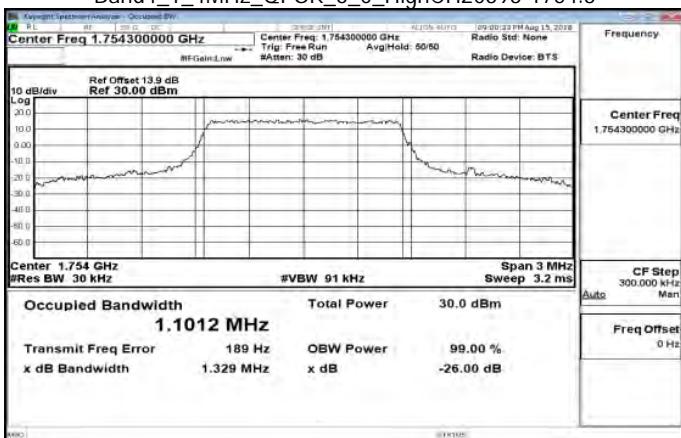
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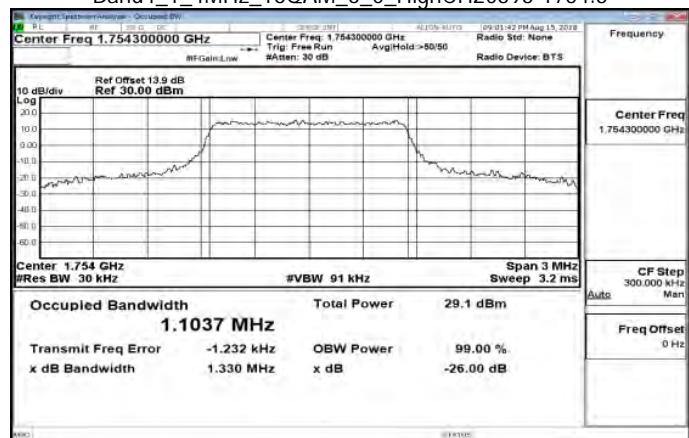
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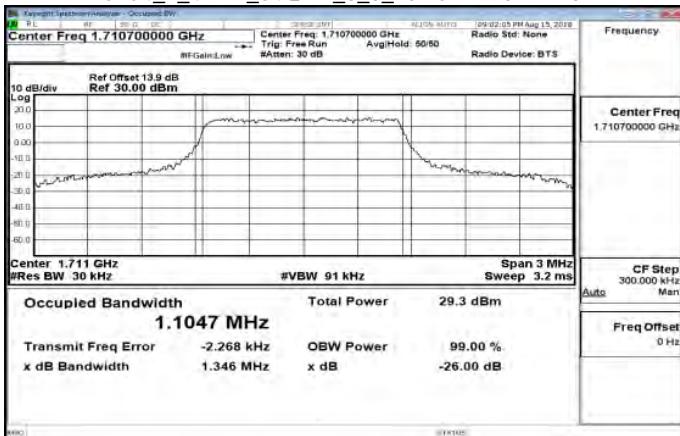
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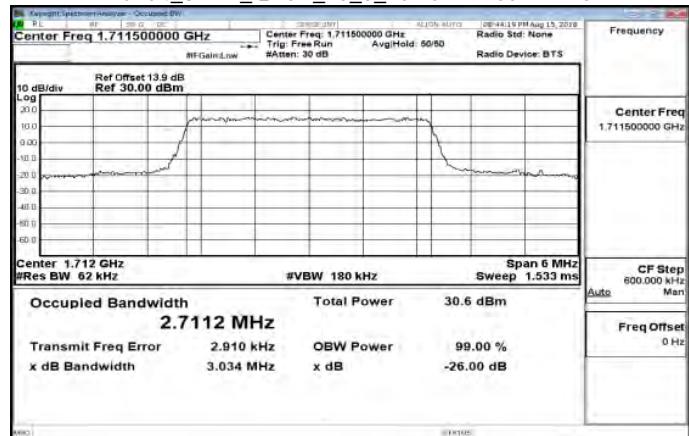
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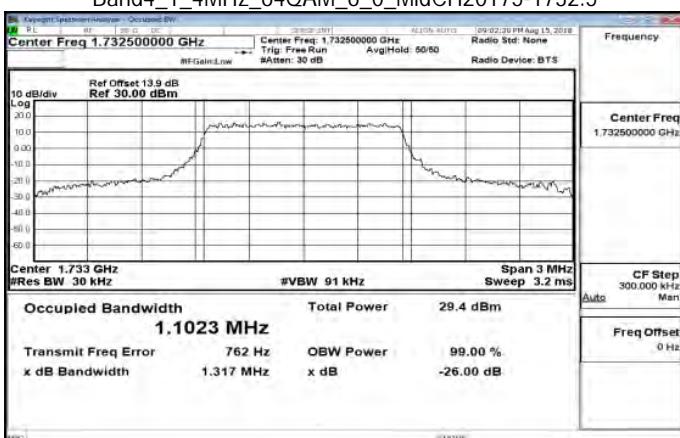
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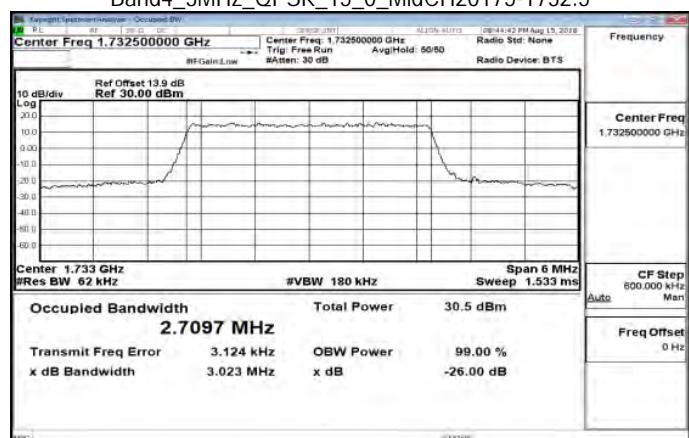
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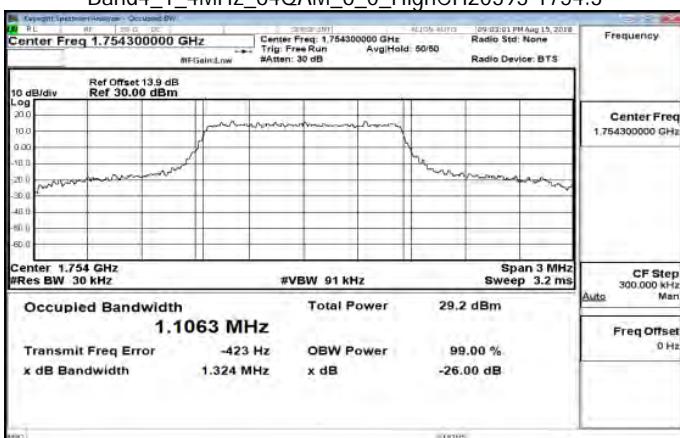
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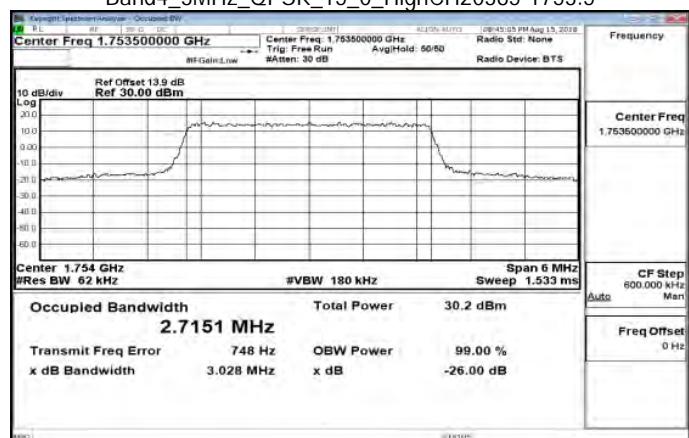
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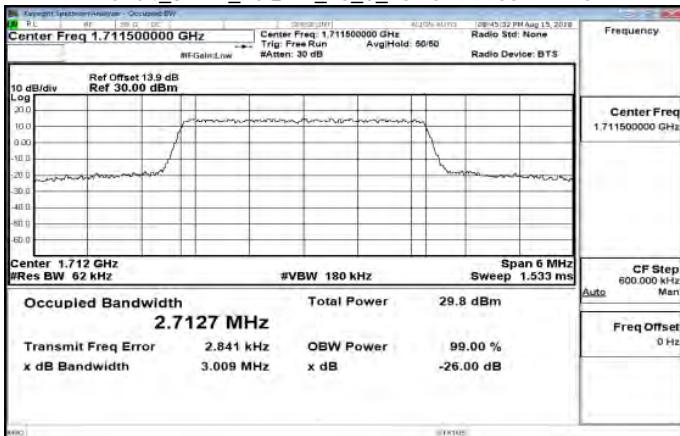
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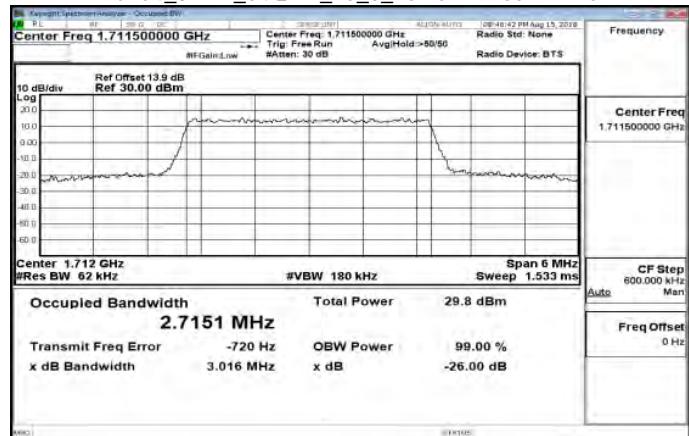
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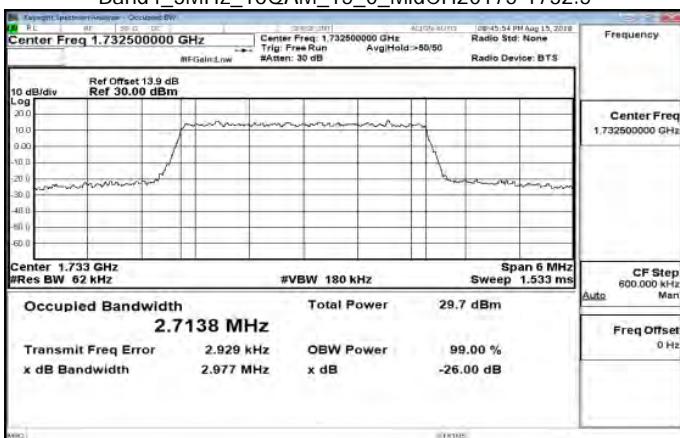
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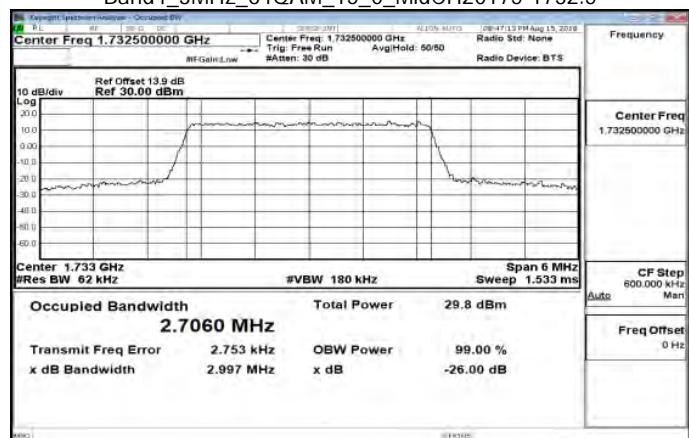
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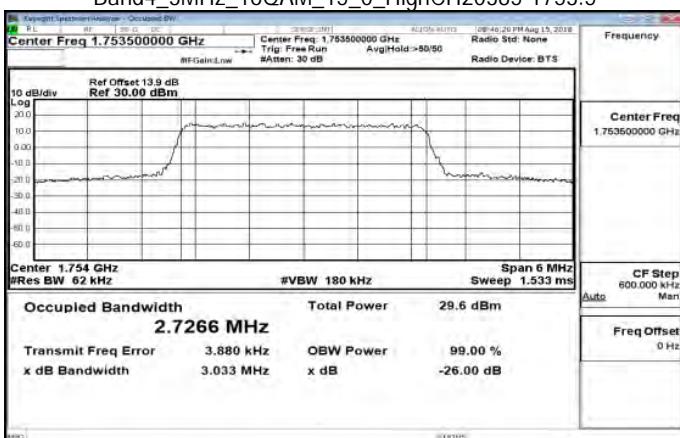
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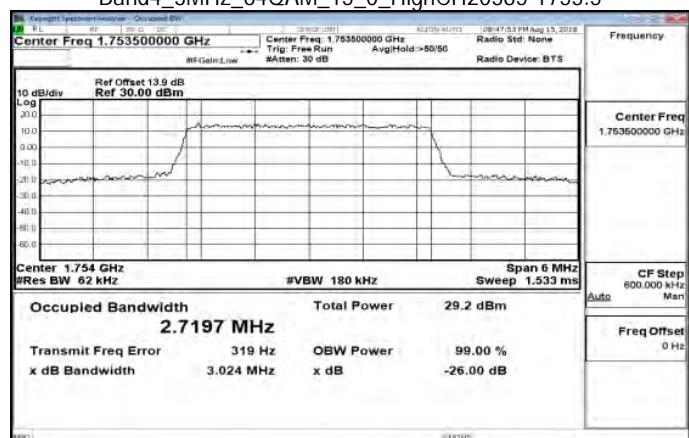
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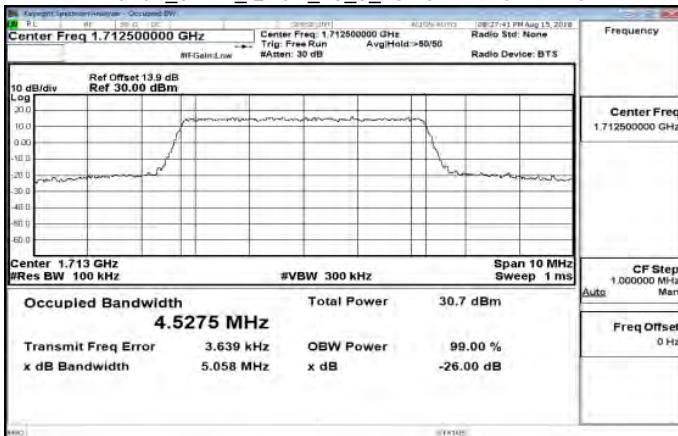
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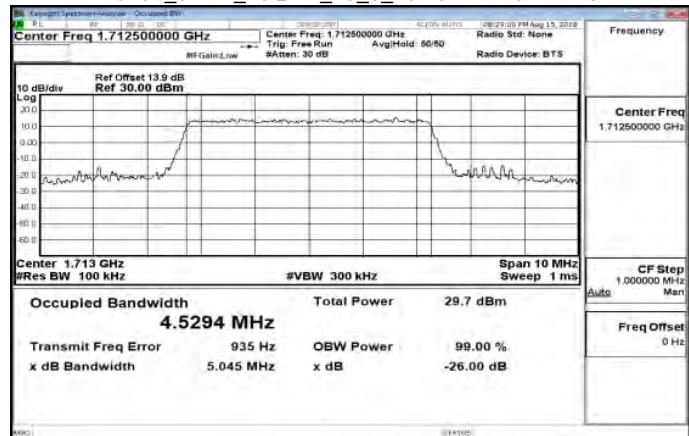
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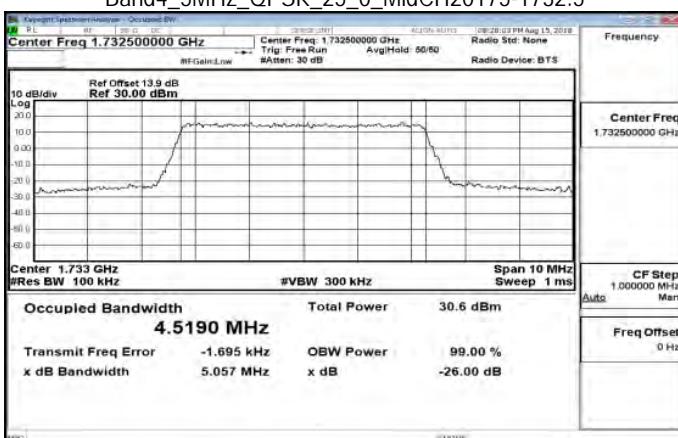
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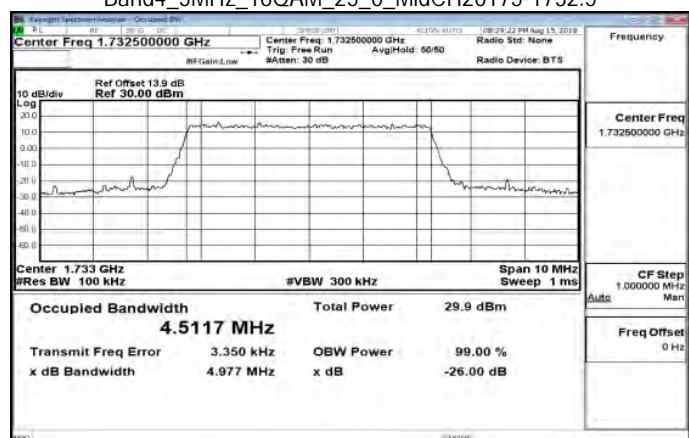
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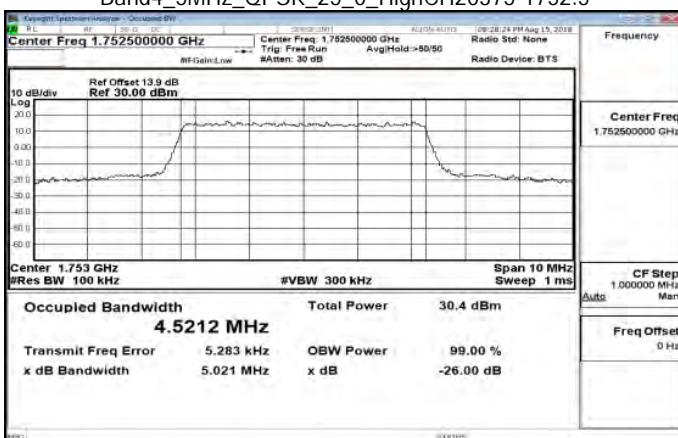
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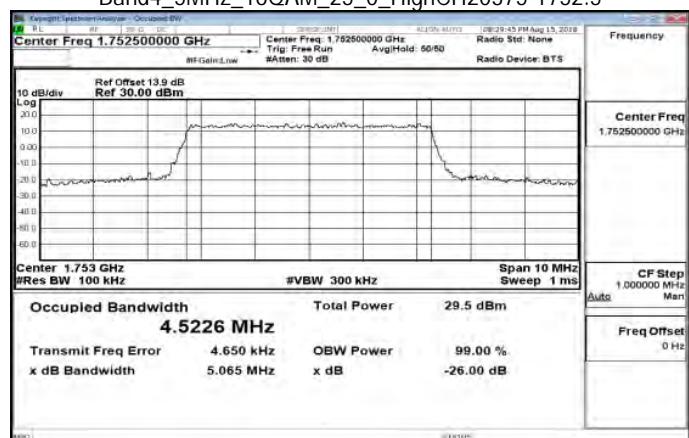
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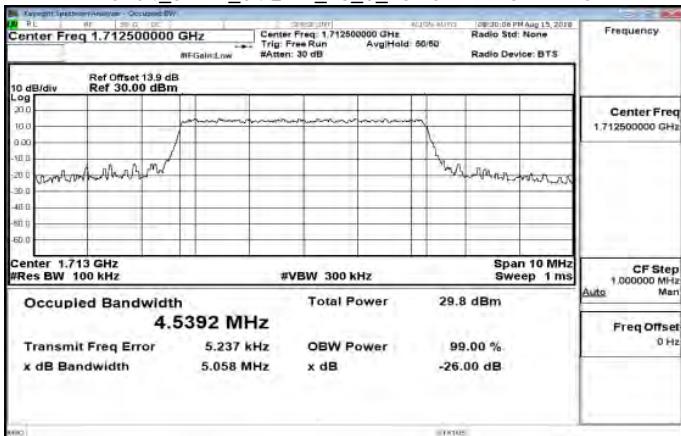
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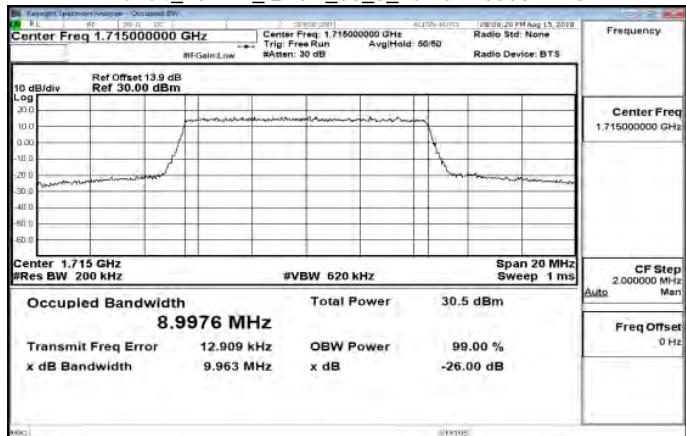
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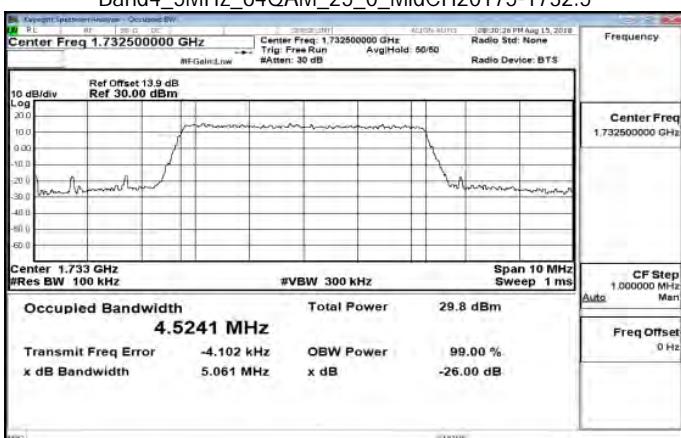
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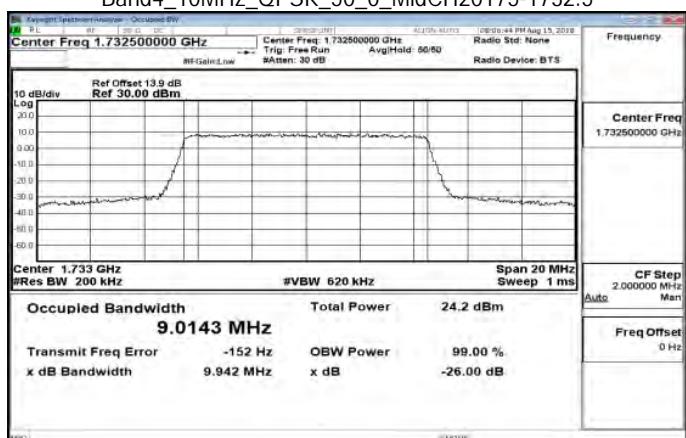
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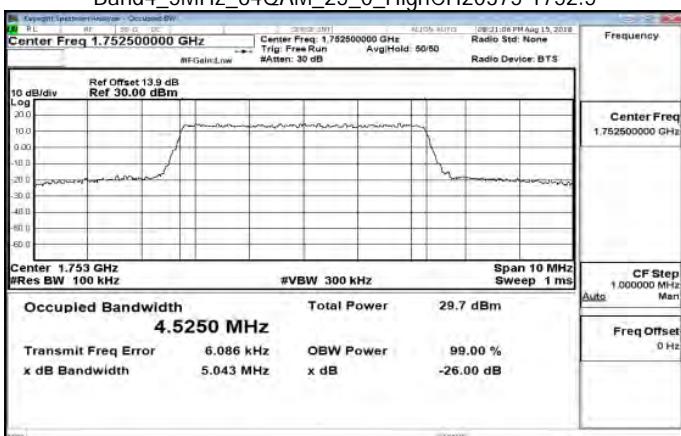
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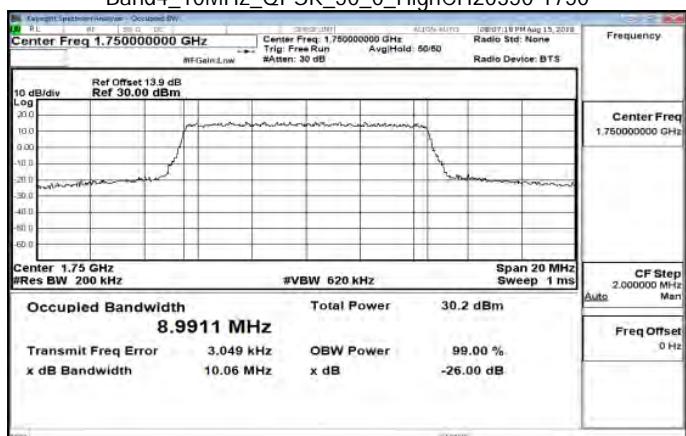
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Band4_10MHz_QPSK_50_0_HighCH20350-1750



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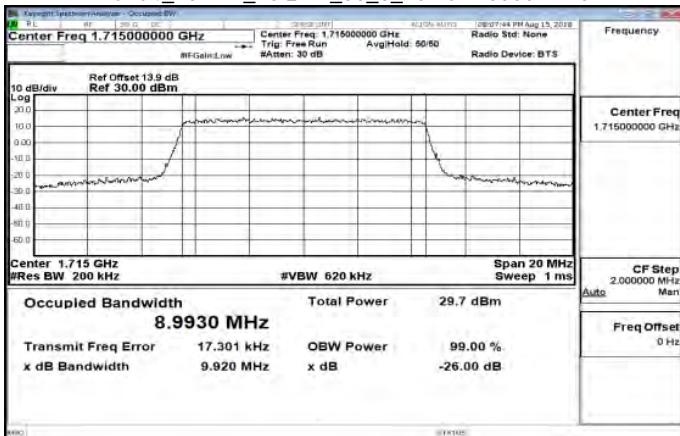
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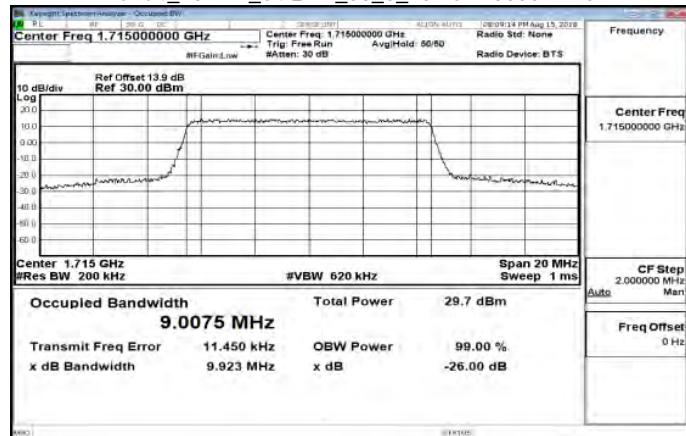
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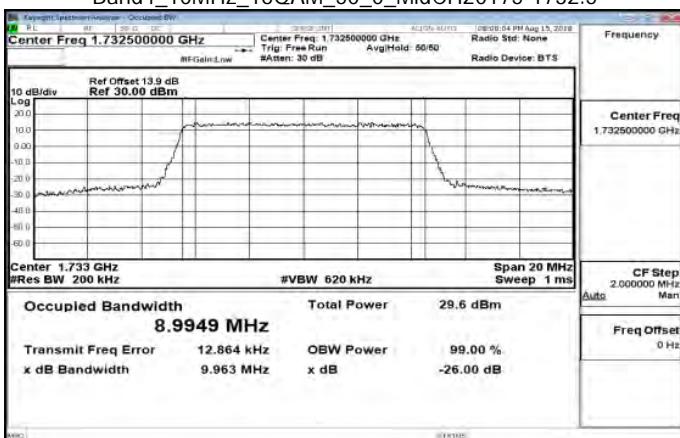
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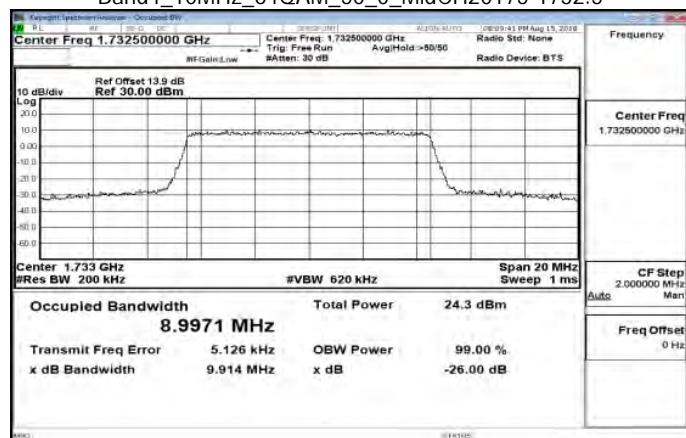
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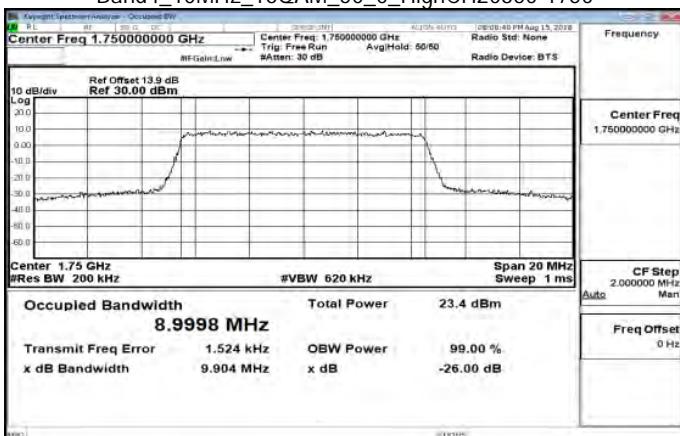
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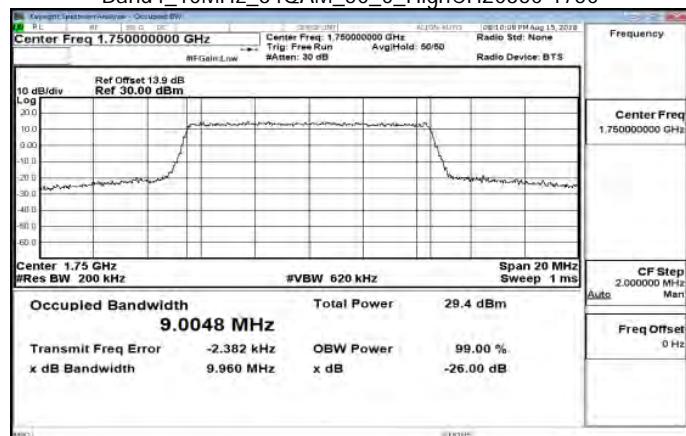
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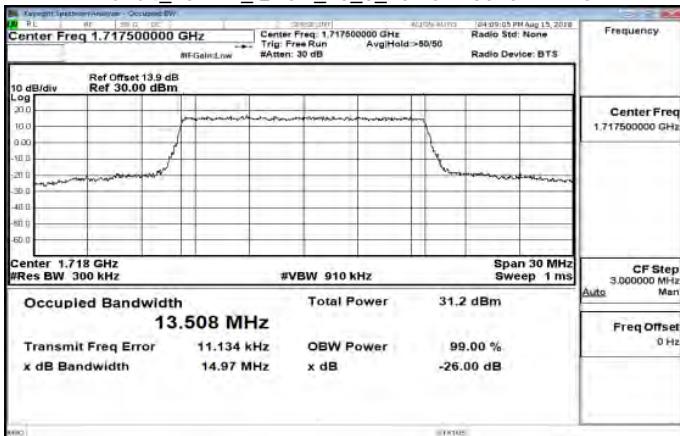
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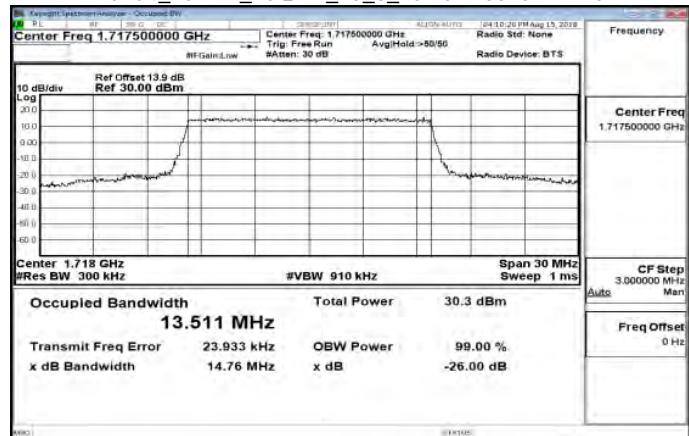
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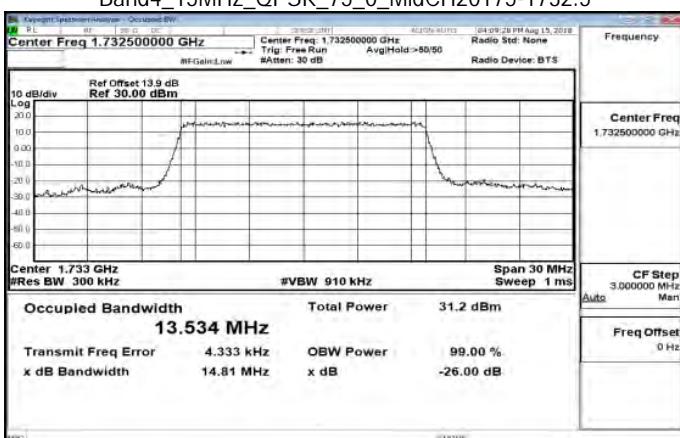
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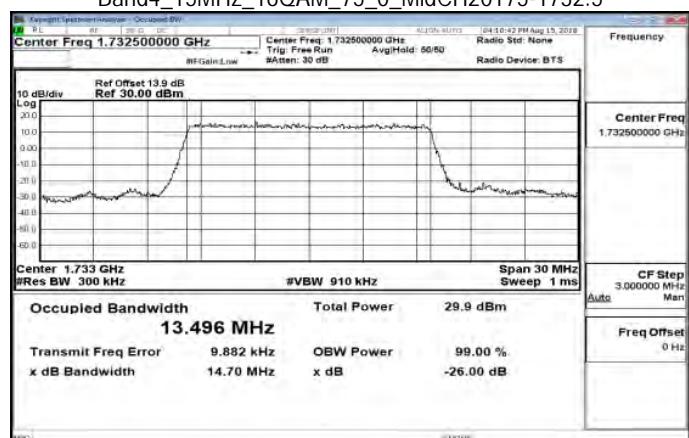
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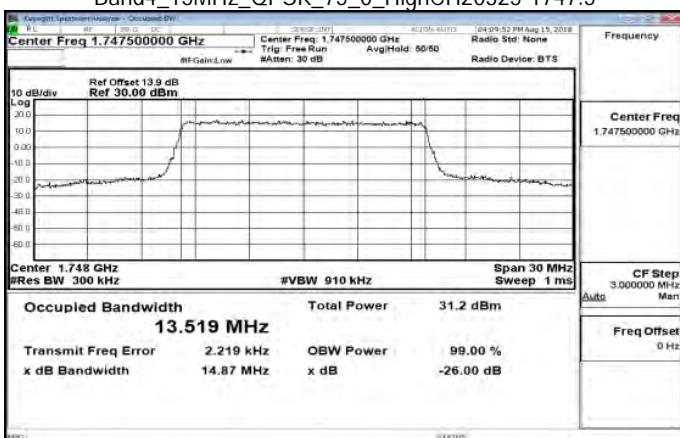
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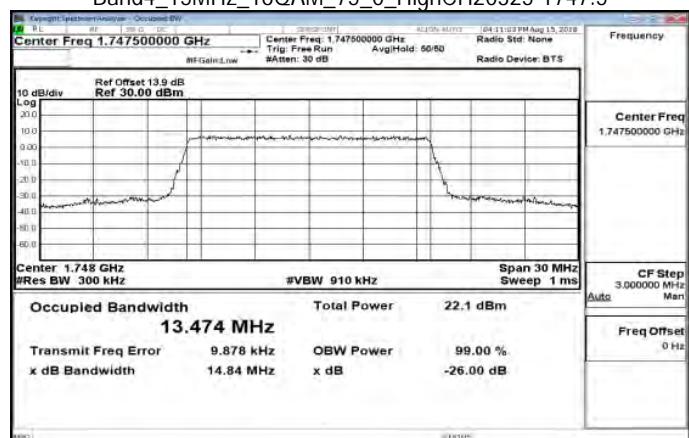
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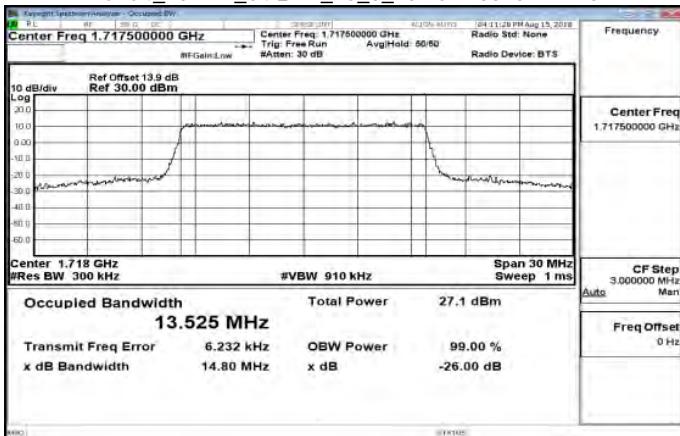
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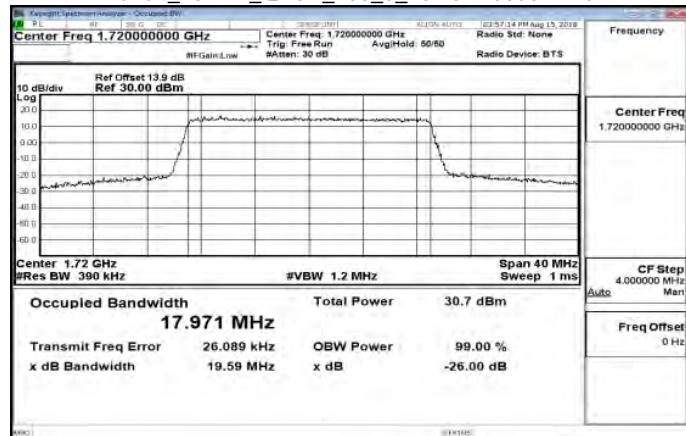
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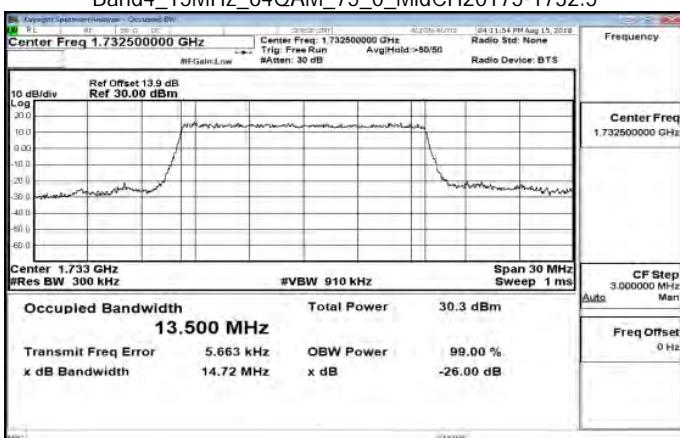
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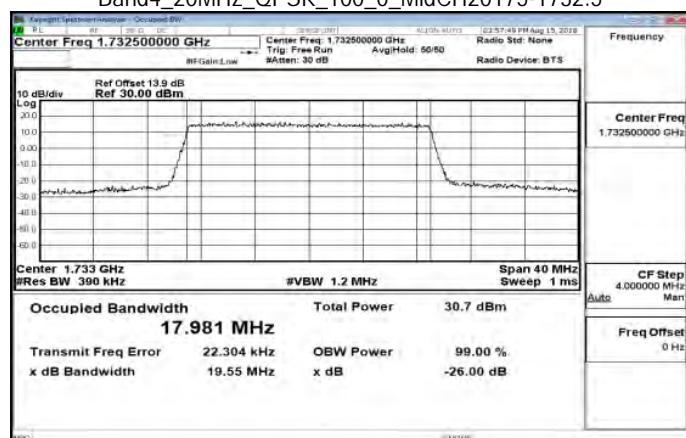
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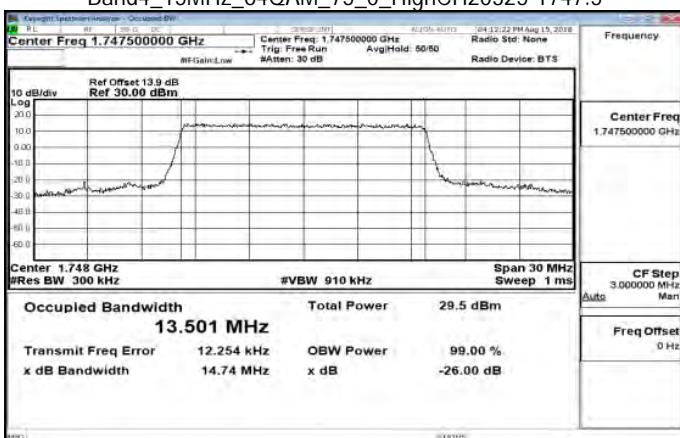
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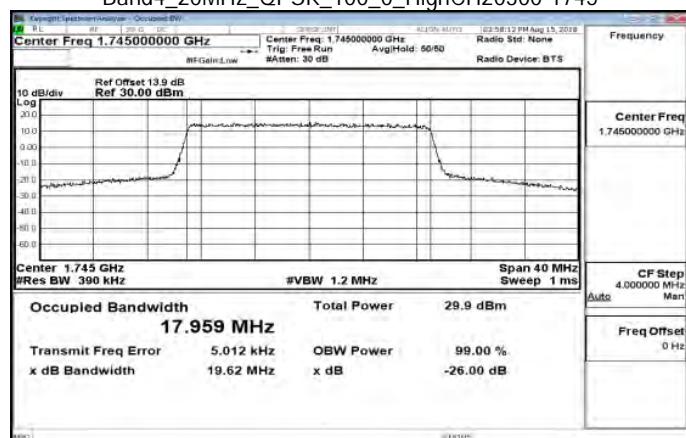
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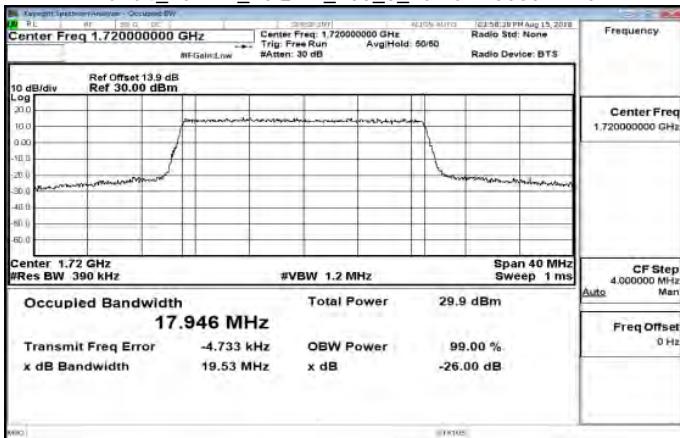
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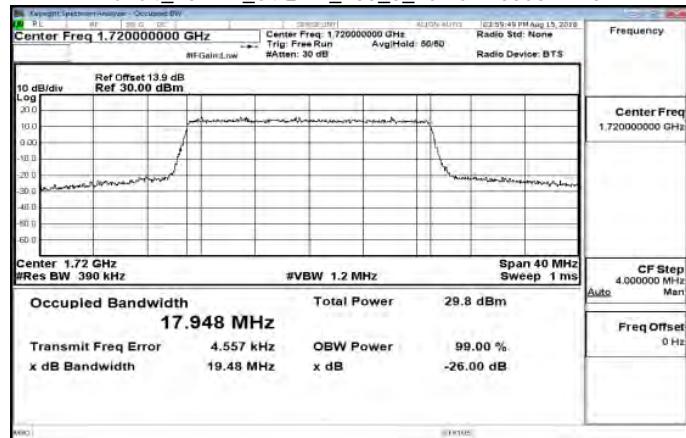
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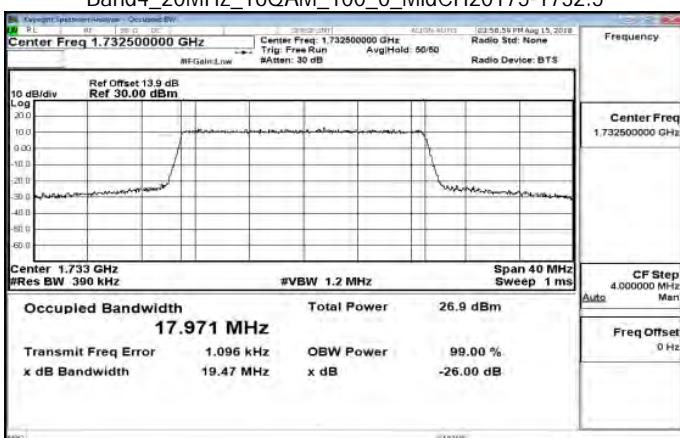
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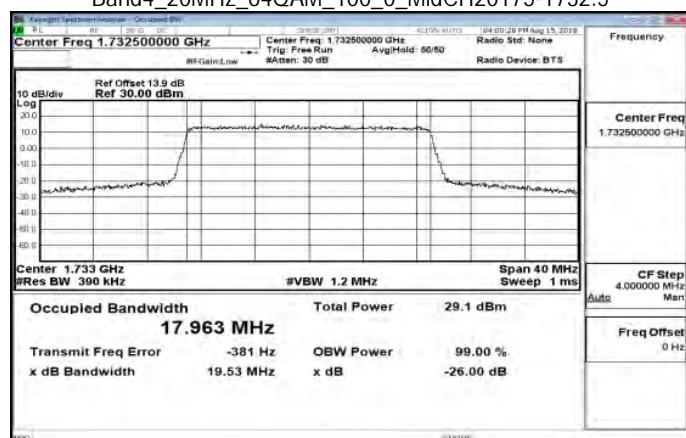
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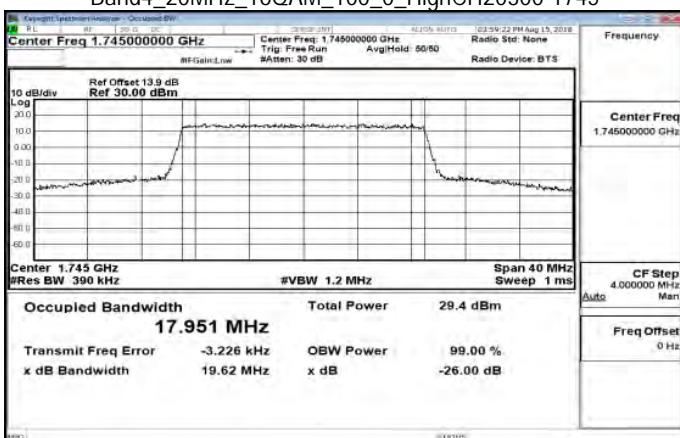
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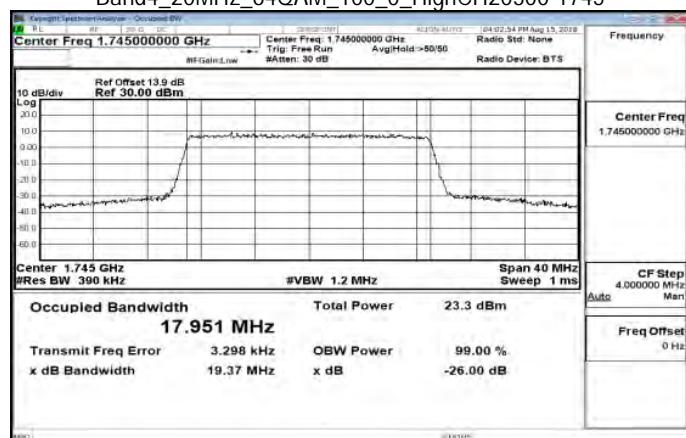
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Band4_20MHz_16QAM_100_0_HighCH20300-1745



Band4_20MHz_64QAM_100_0_HighCH20300-1745



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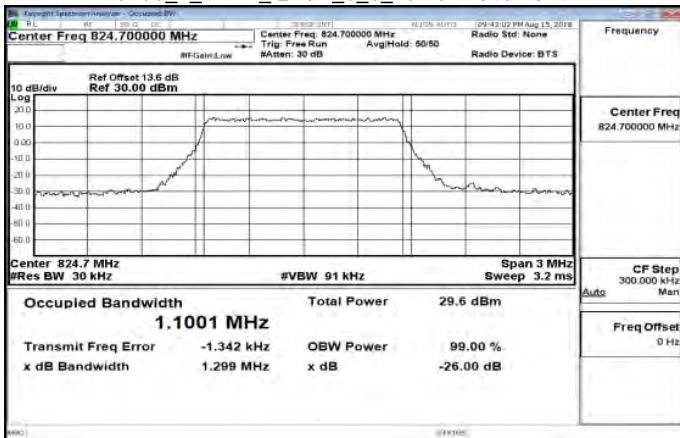
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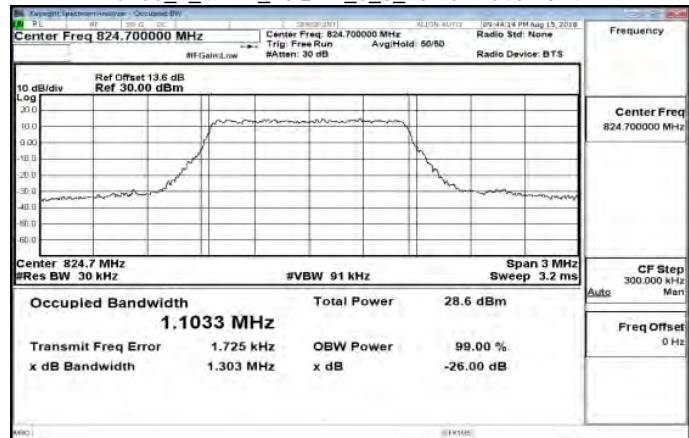
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Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



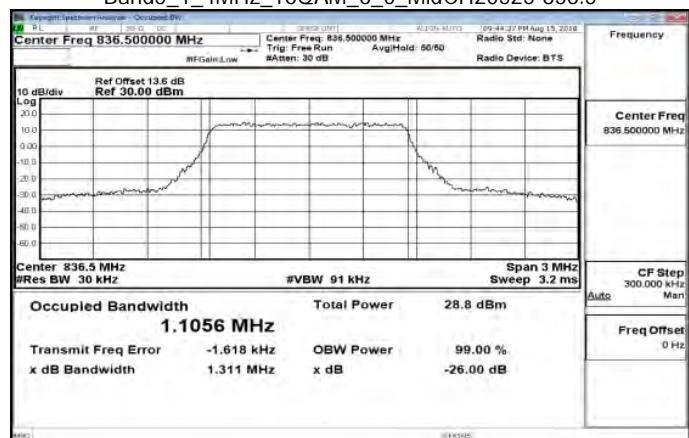
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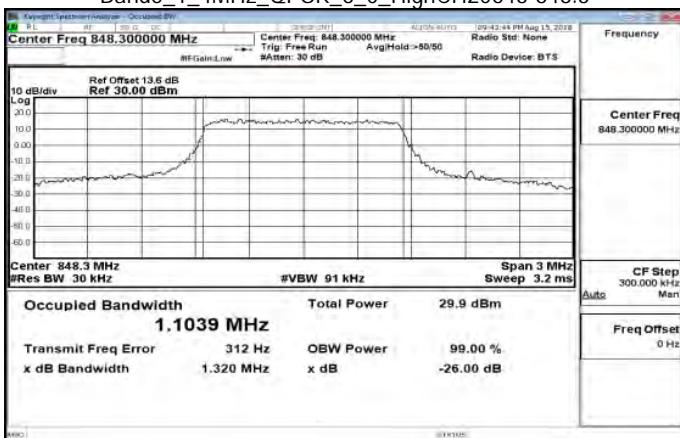
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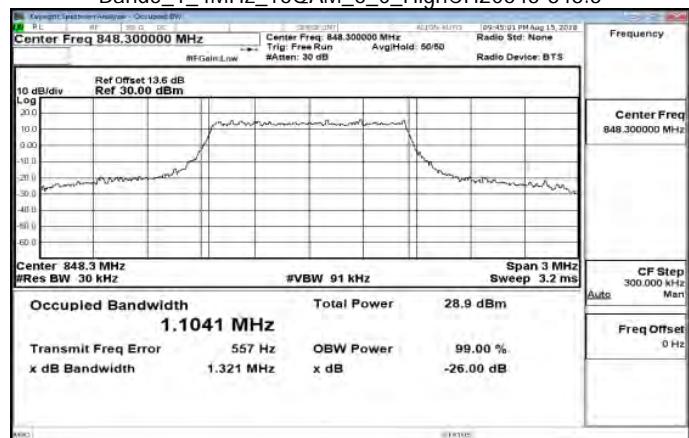
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Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



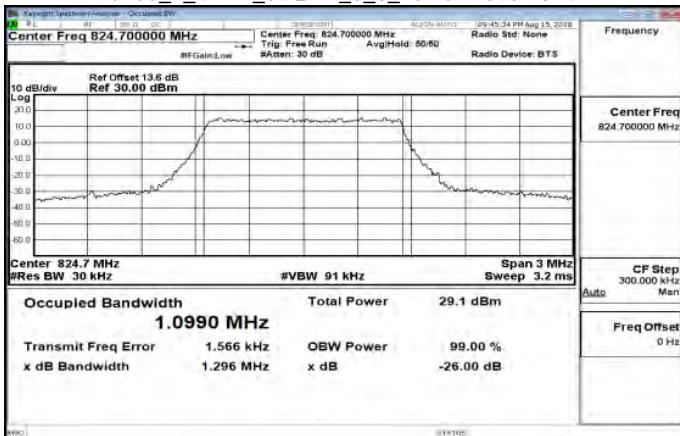
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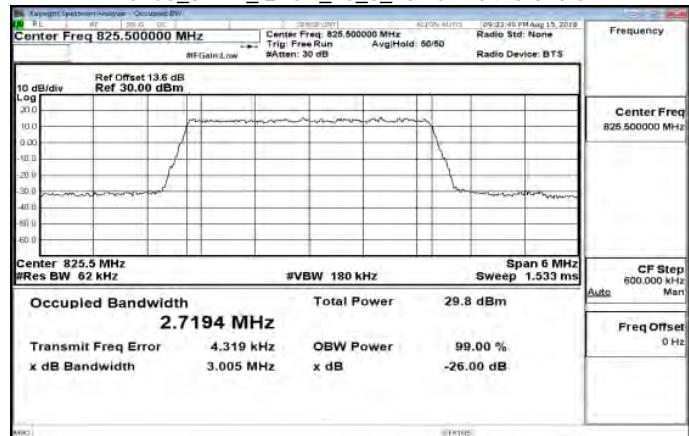
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Band5_1_4MHz_64QAM_6_0_LowCH20407-824.7



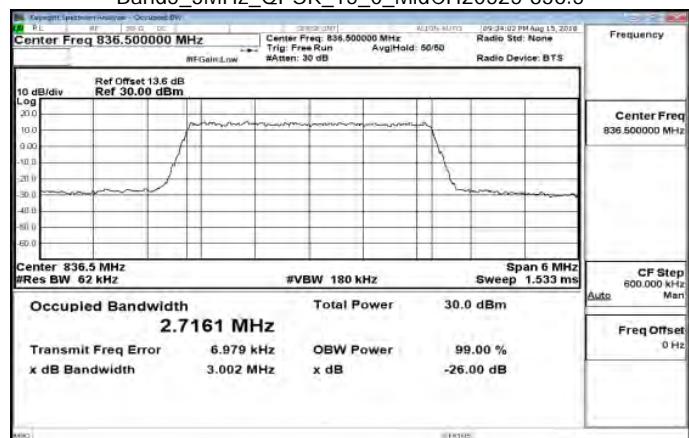
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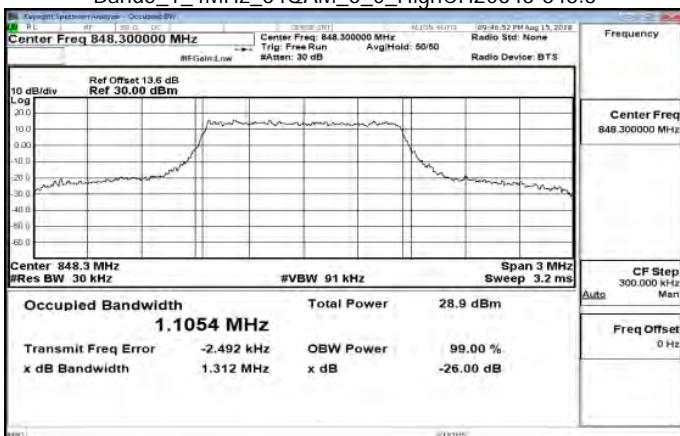
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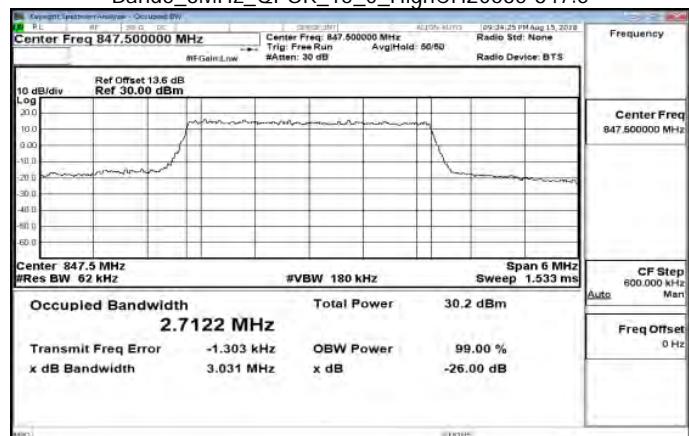
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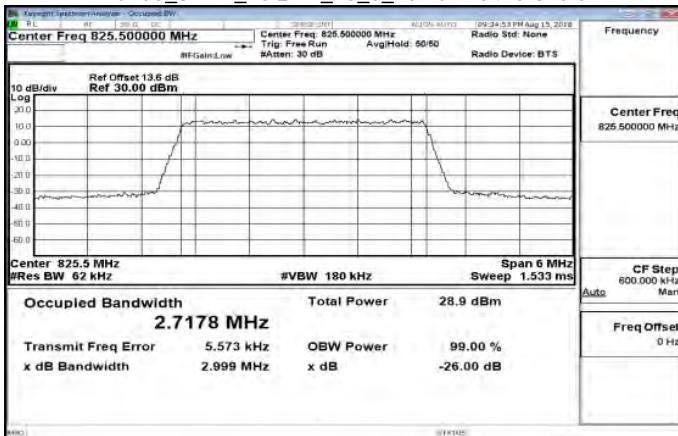
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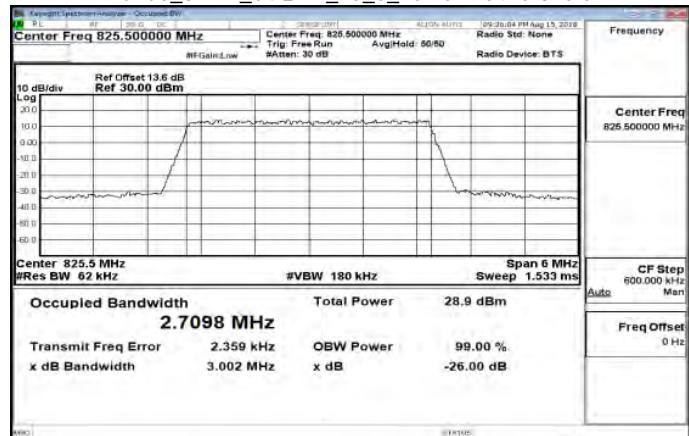
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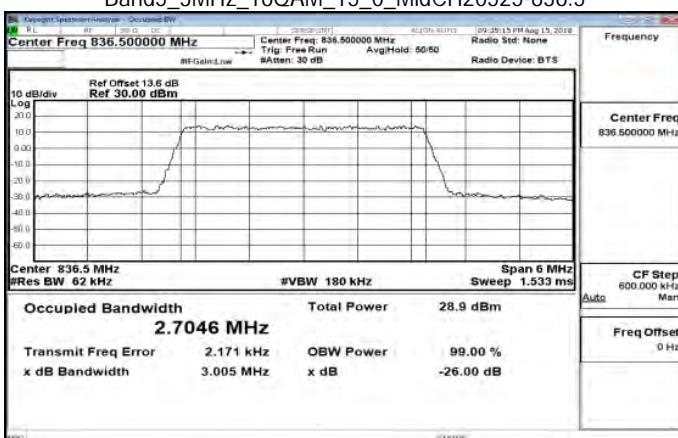
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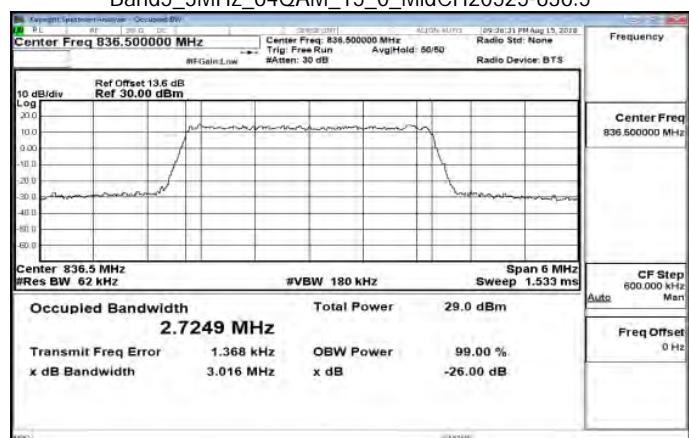
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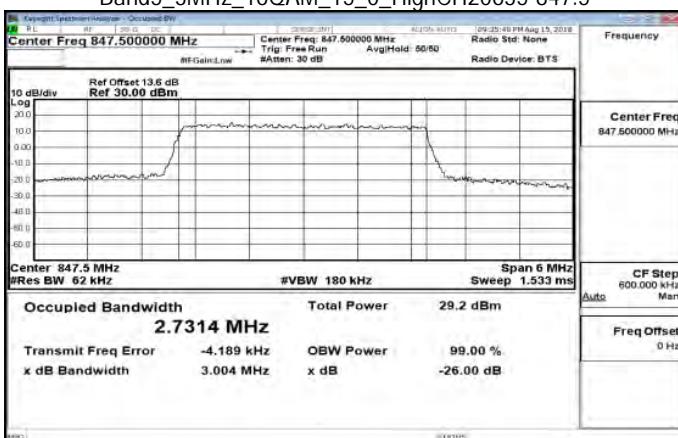
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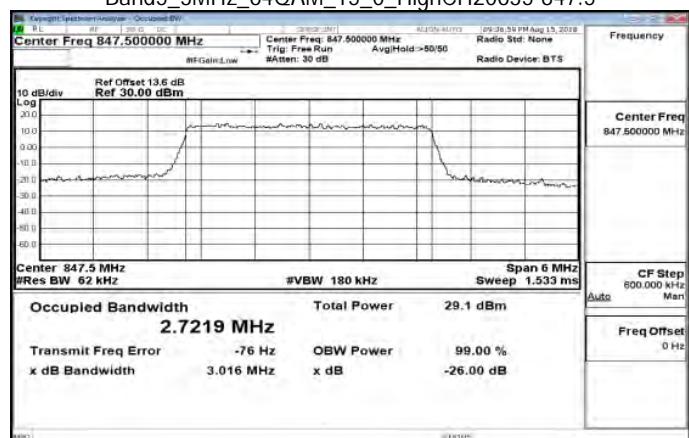
Band5_3MHz_64QAM_15_0_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5



Band5_3MHz_64QAM_15_0_HighCH20635-847.5



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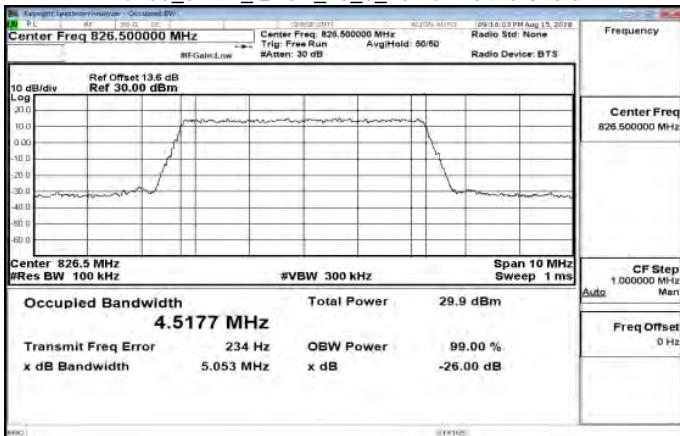
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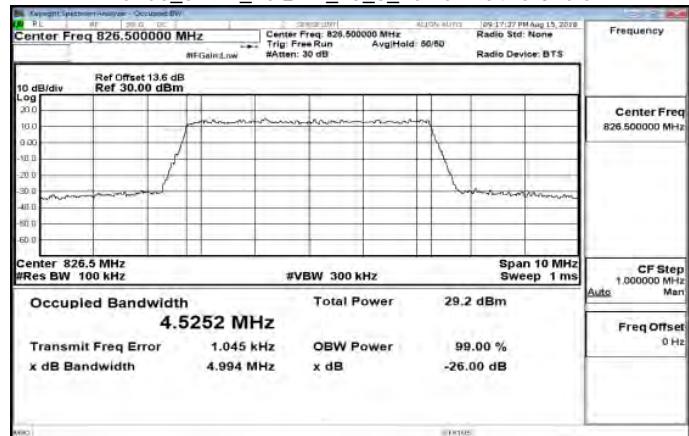
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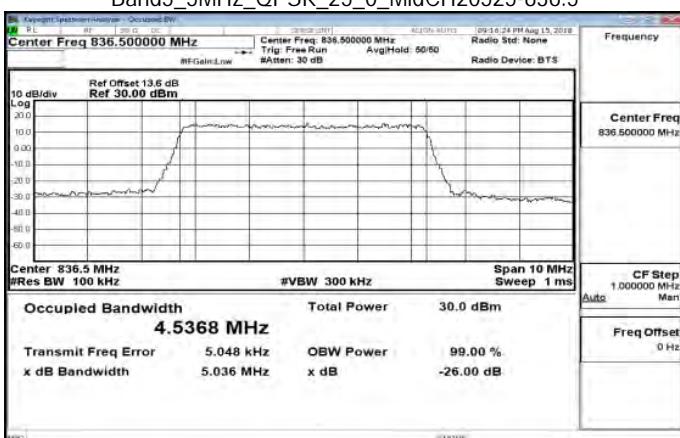
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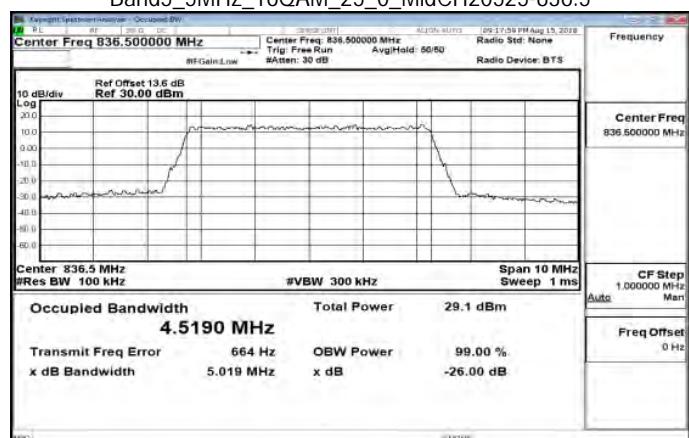
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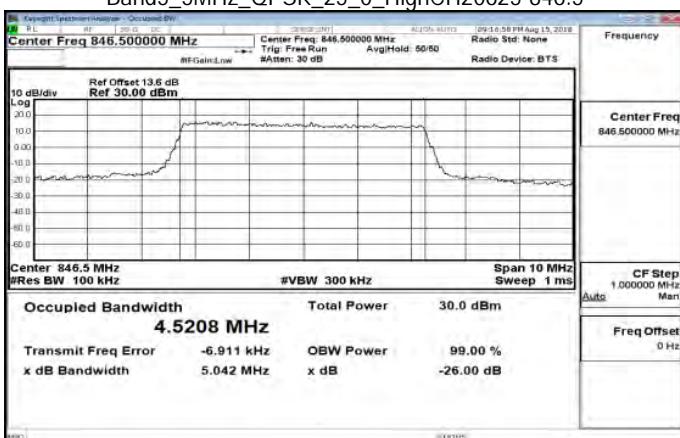
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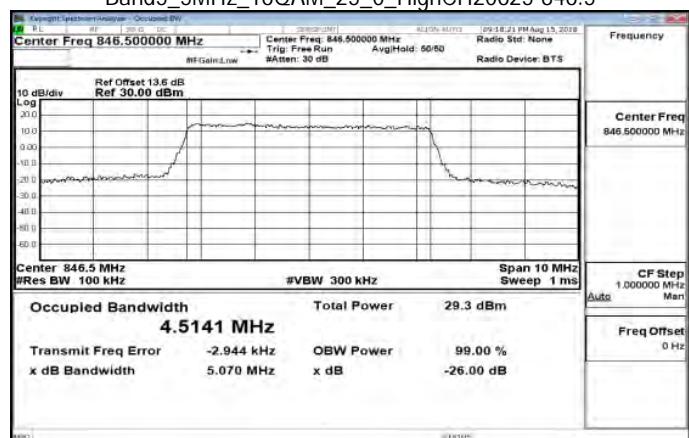
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Band5_5MHz_QPSK_25_0_HighCH20625-846.5



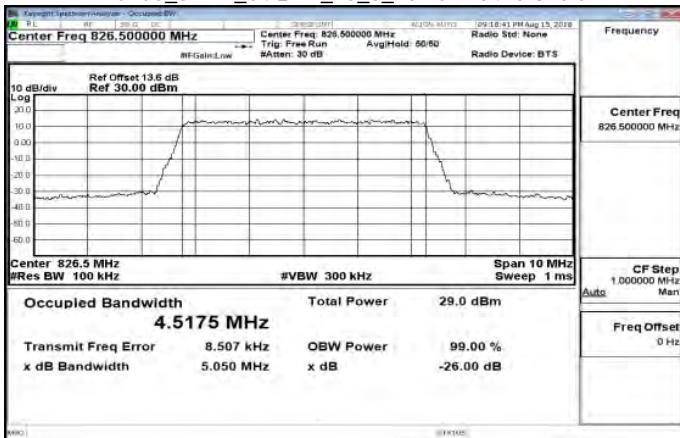
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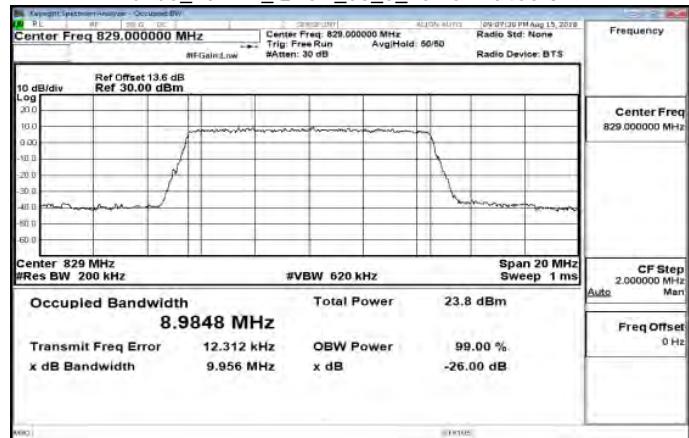
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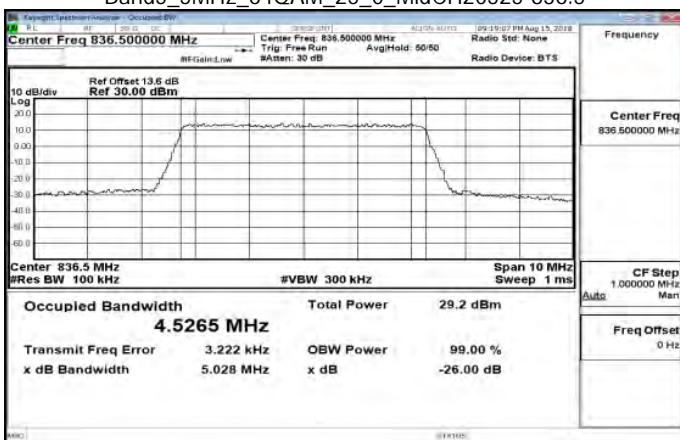
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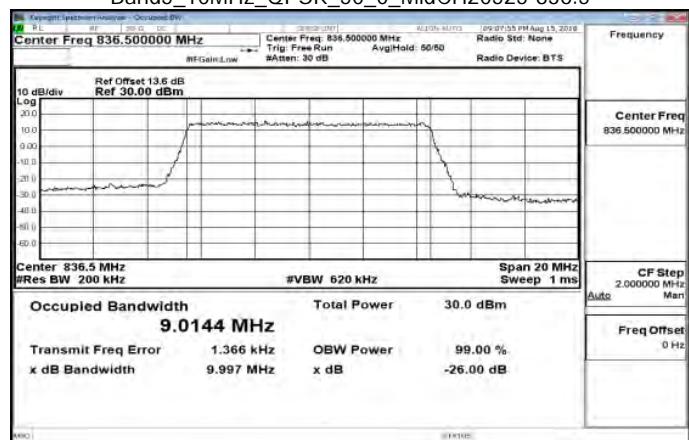
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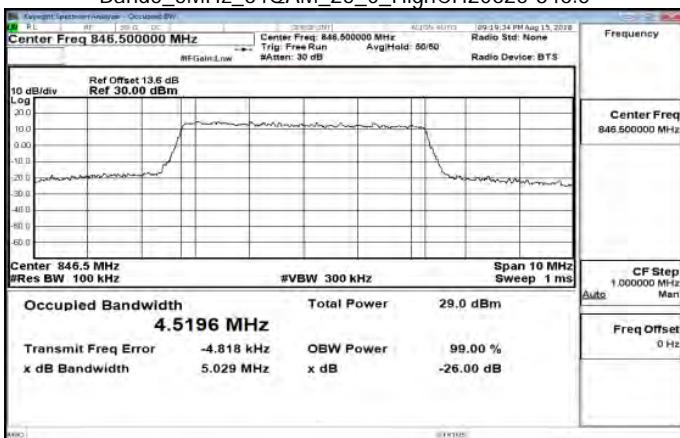
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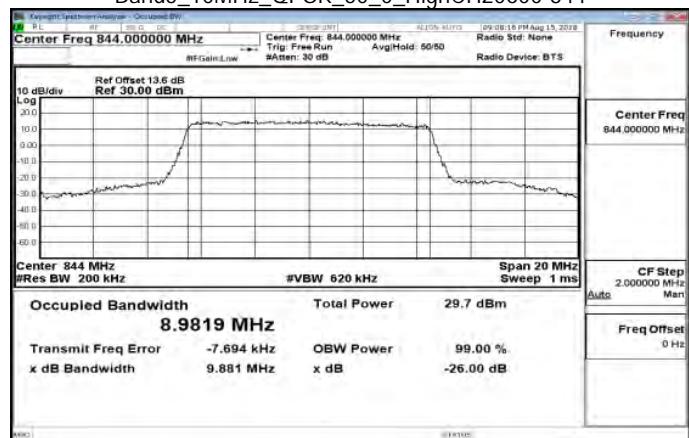
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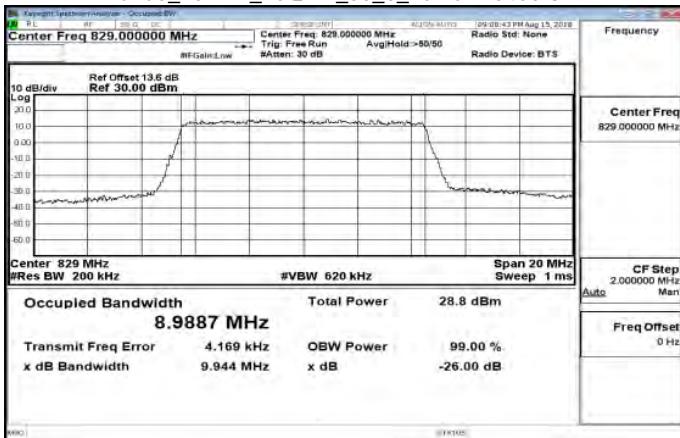
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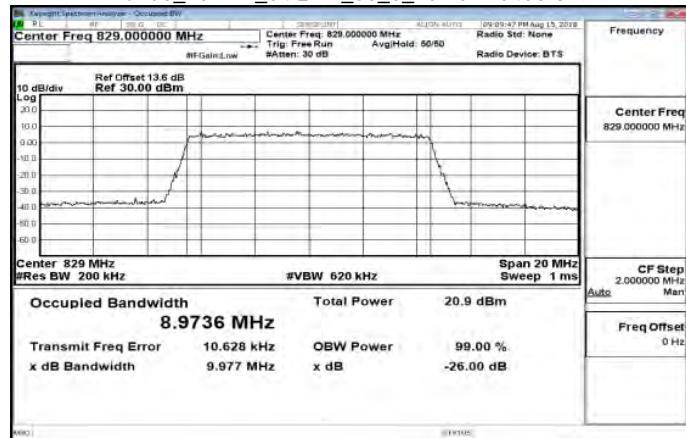
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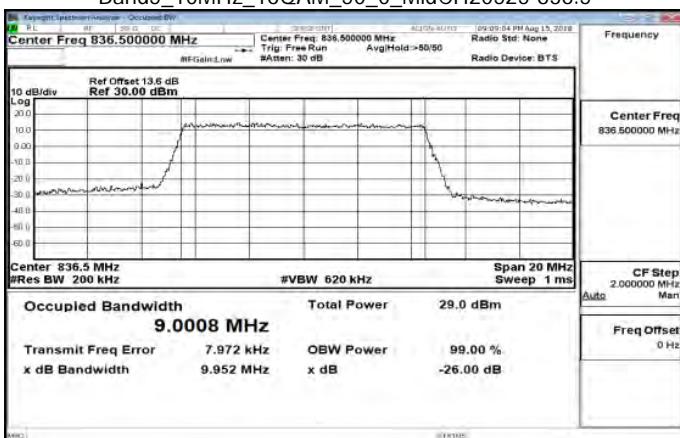
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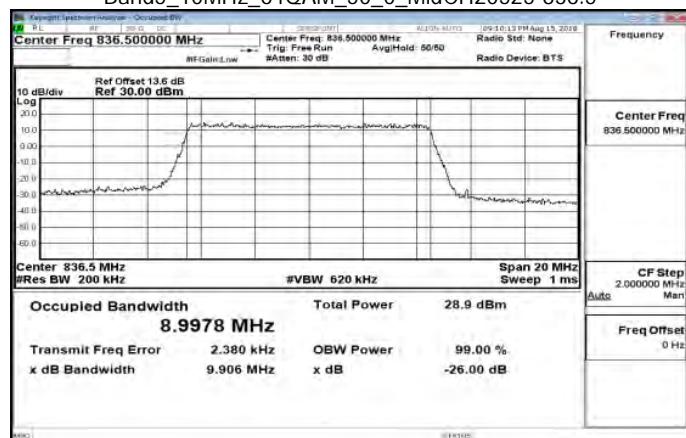
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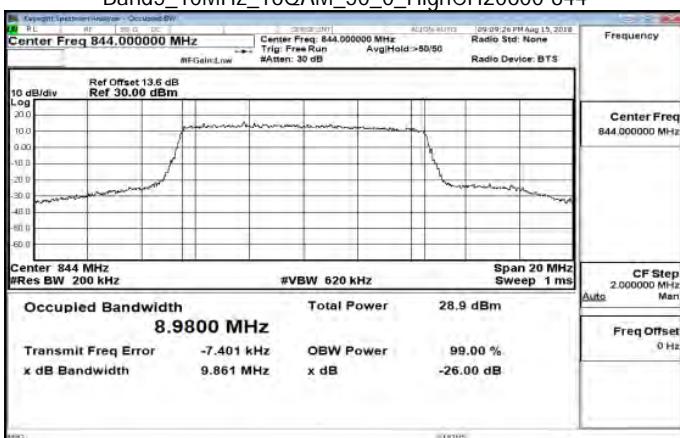
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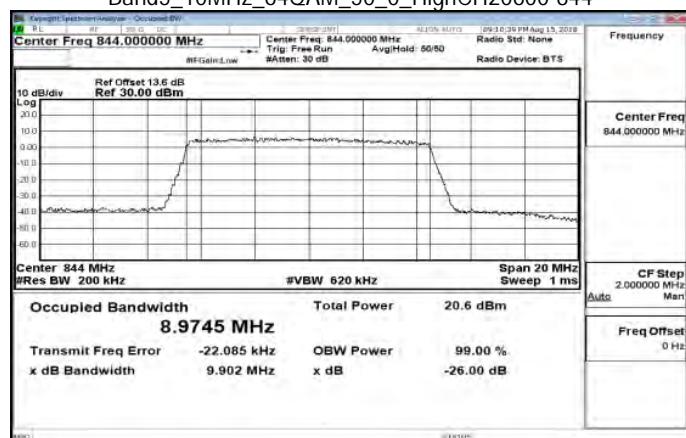
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Band5_10MHz_16QAM_50_0_HighCH20600-844



Band5_10MHz_64QAM_50_0_HighCH20600-844



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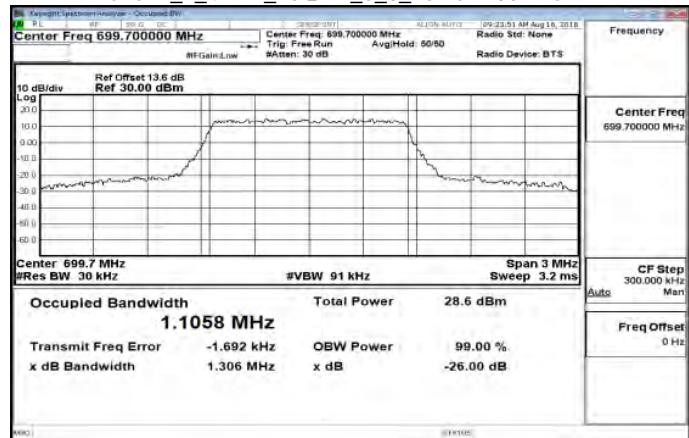
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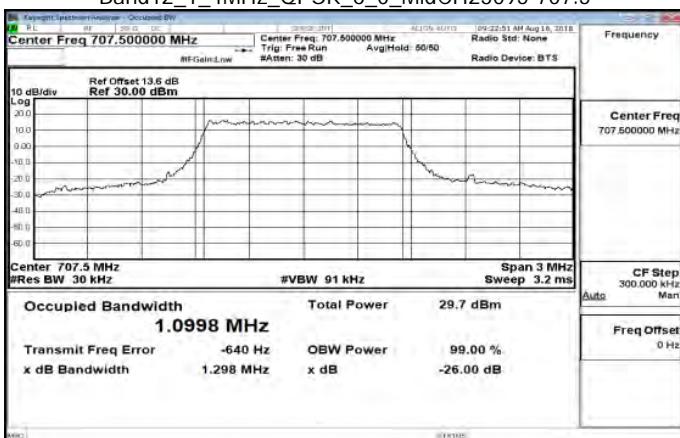
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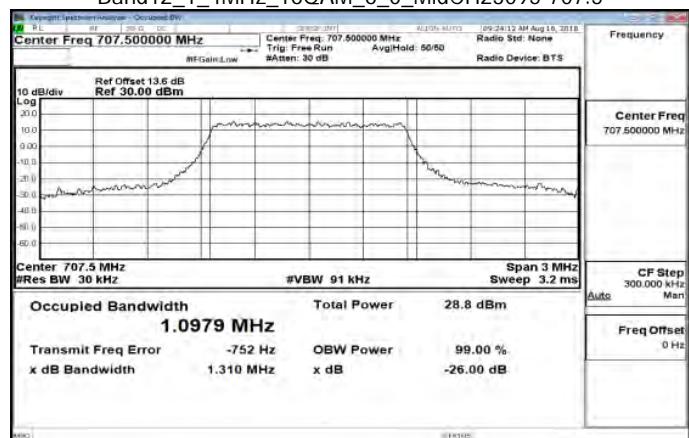
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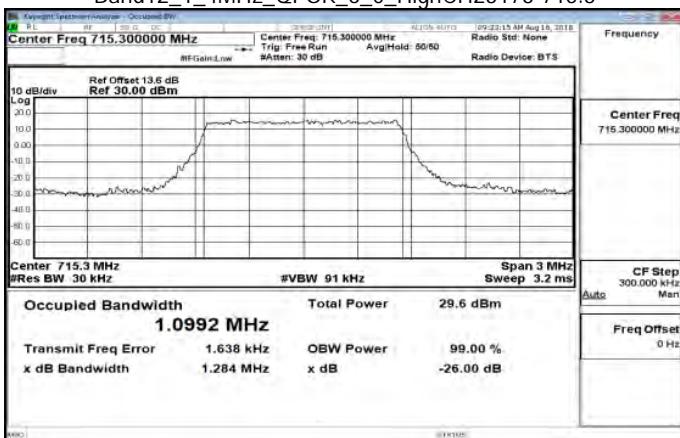
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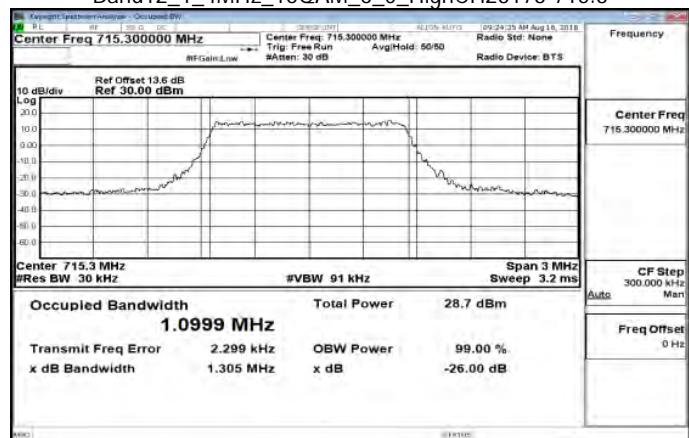
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Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3



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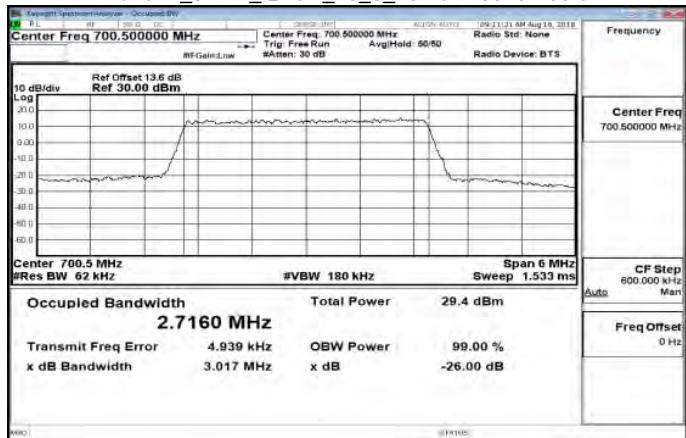
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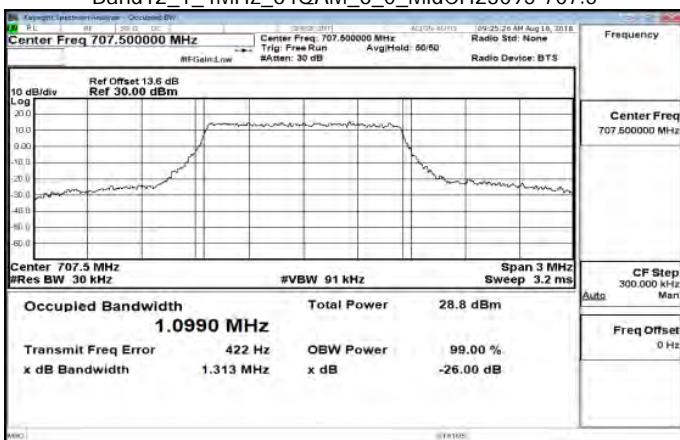
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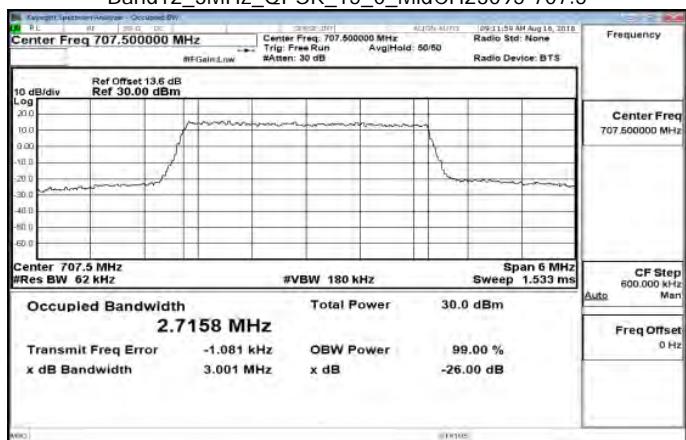
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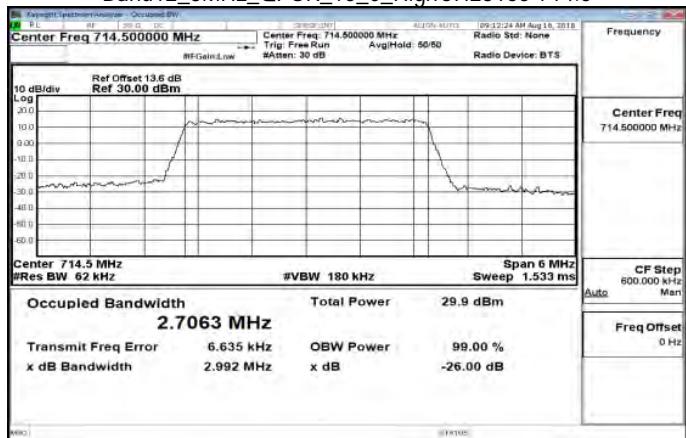
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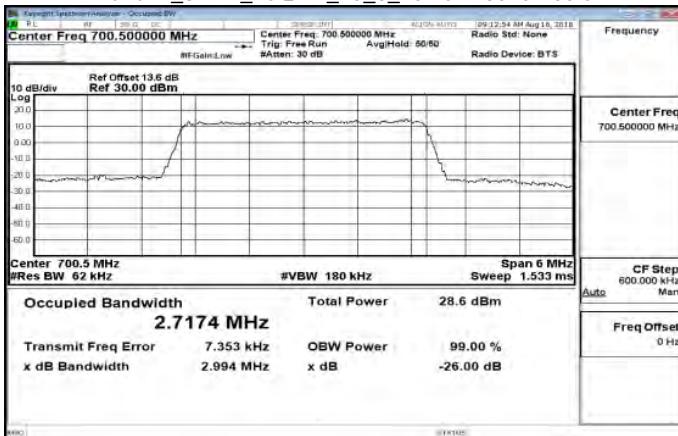
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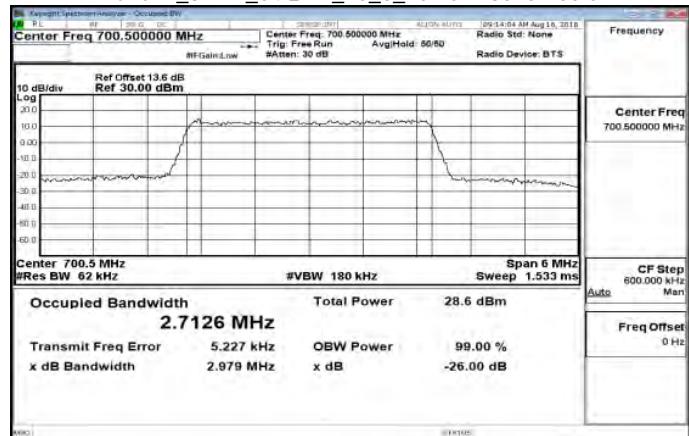
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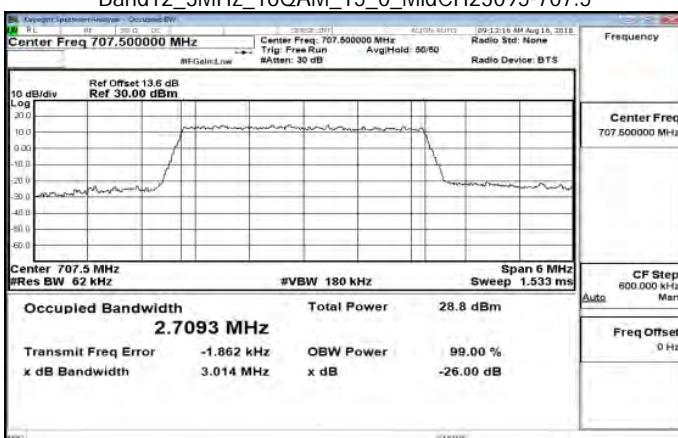
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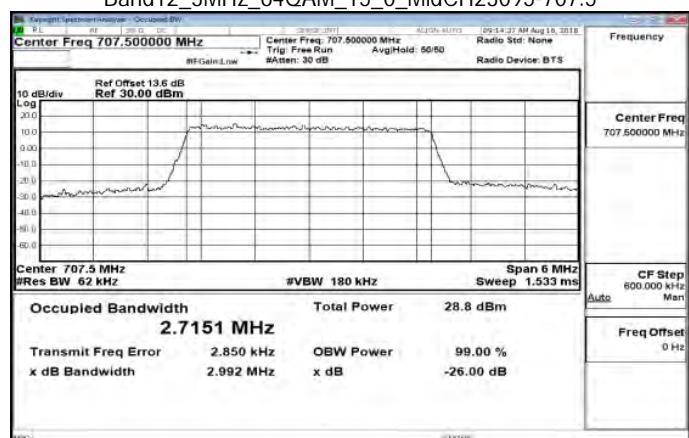
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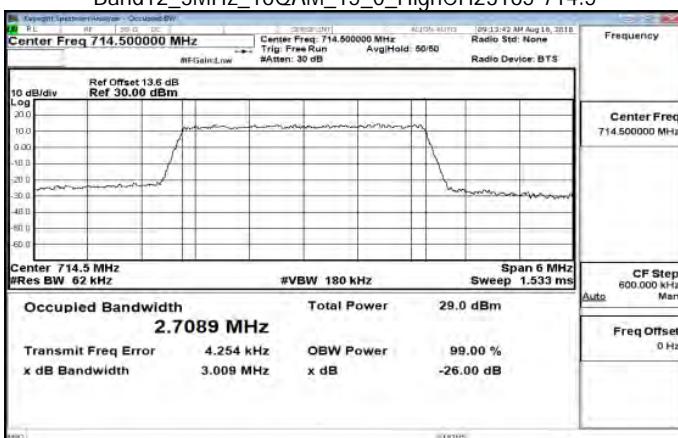
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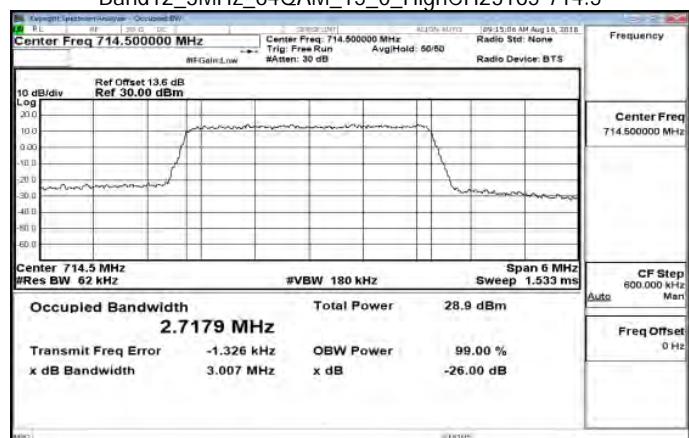
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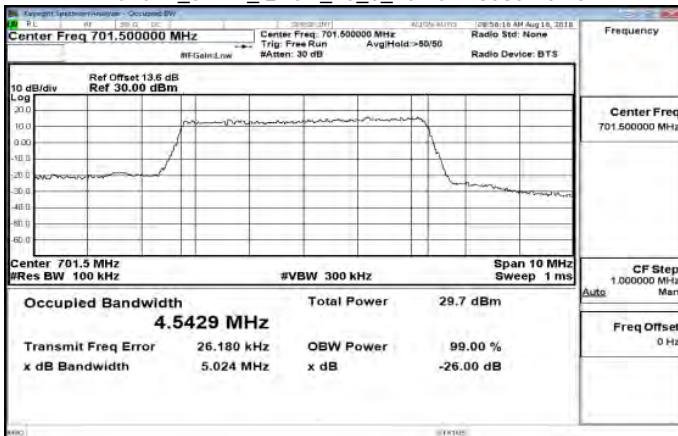
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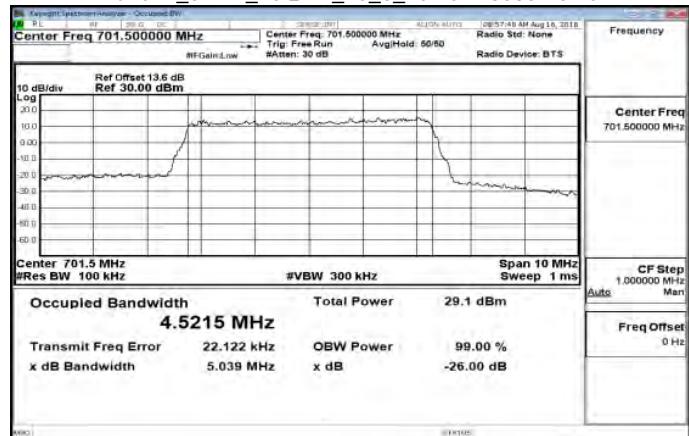
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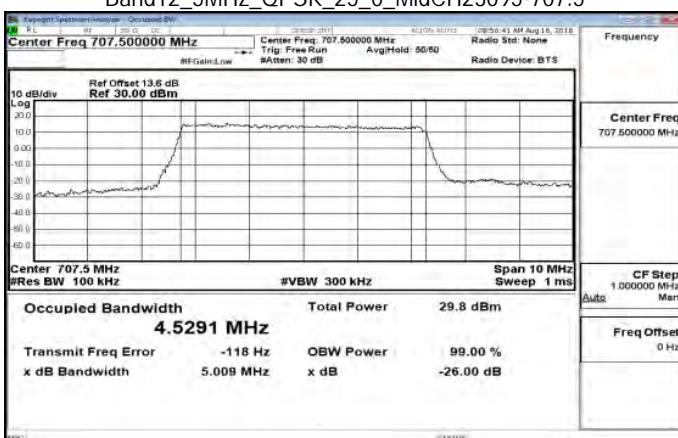
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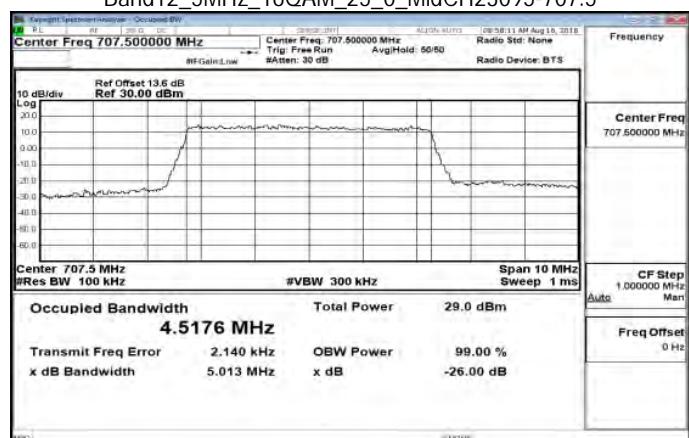
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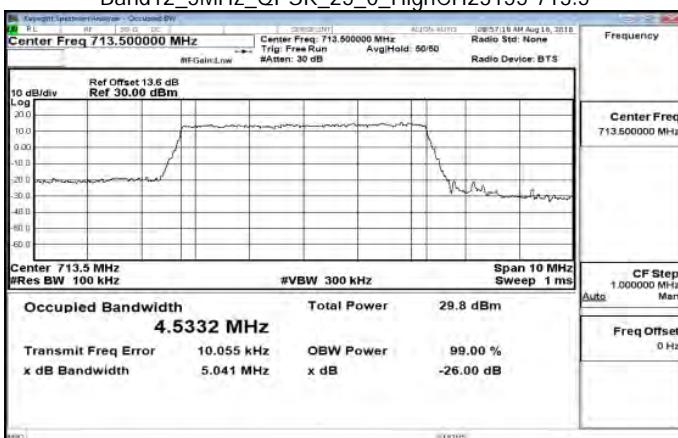
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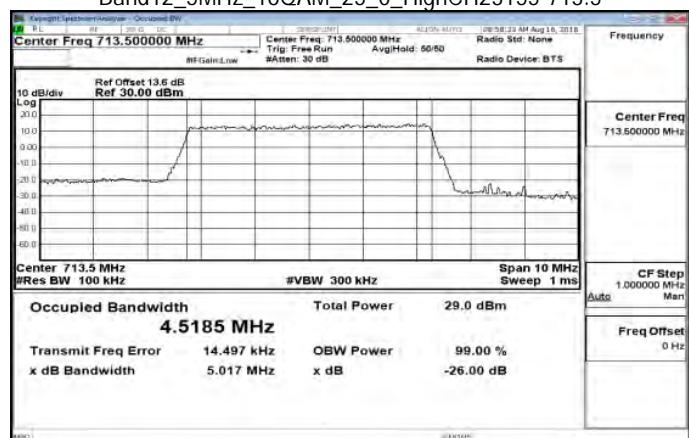
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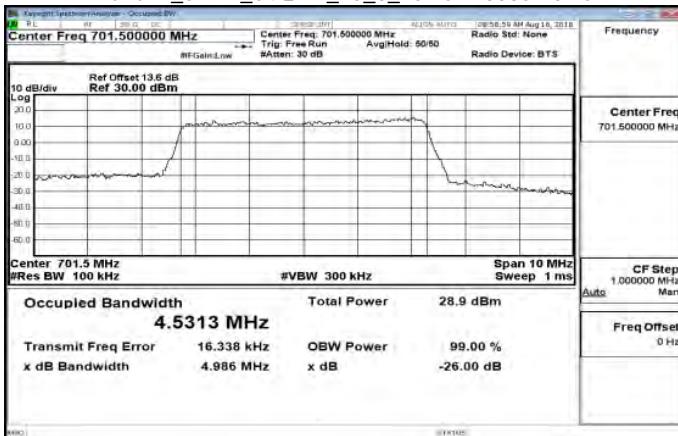
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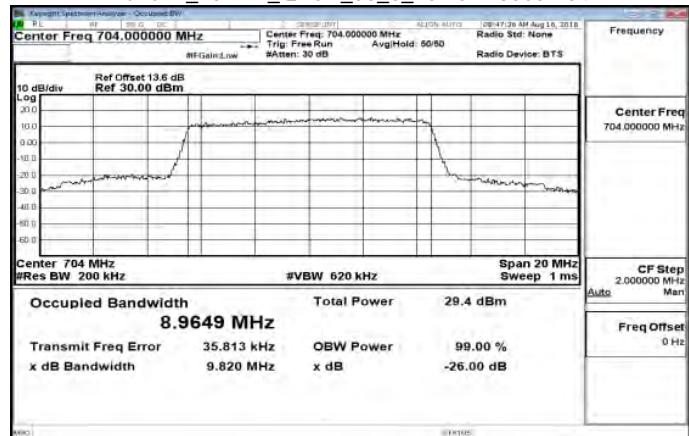
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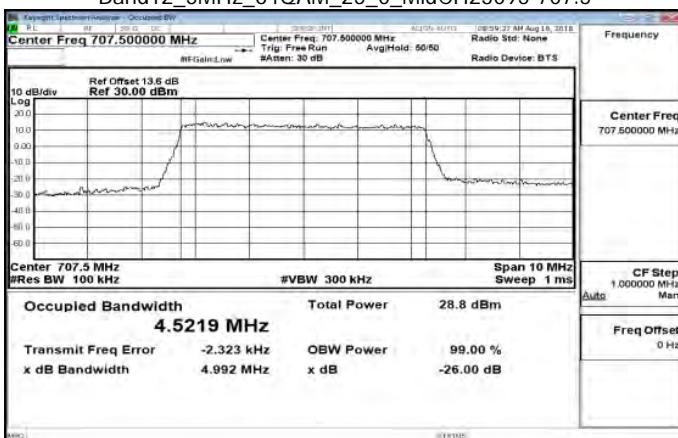
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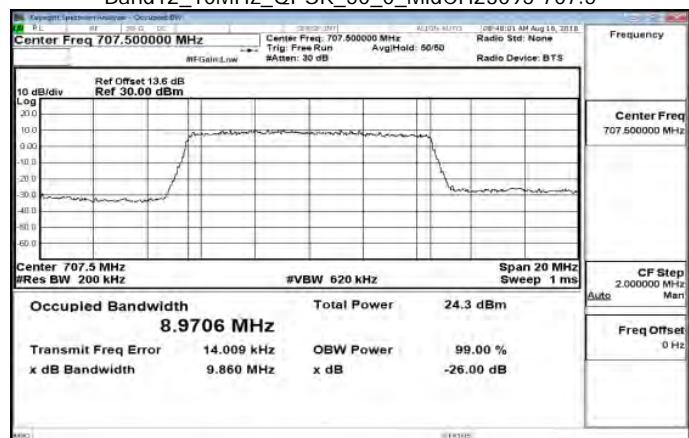
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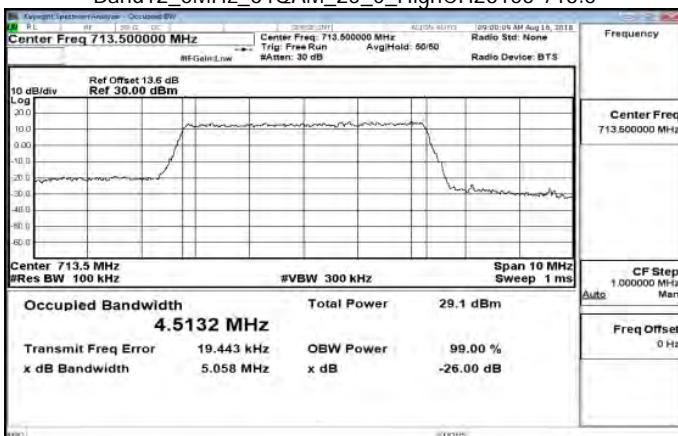
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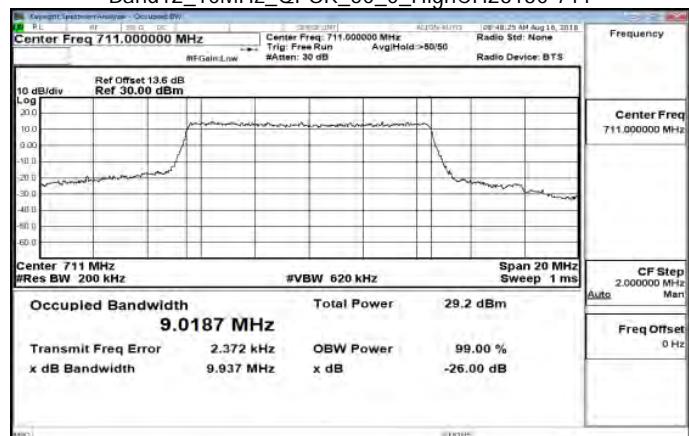
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Band12_5MHz_64QAM_25_0_HighCH23155-713.5



Band12_10MHz_QPSK_50_0_HighCH23130-711



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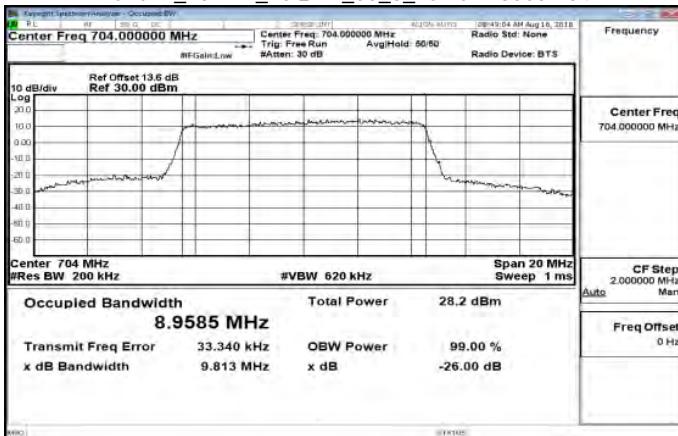
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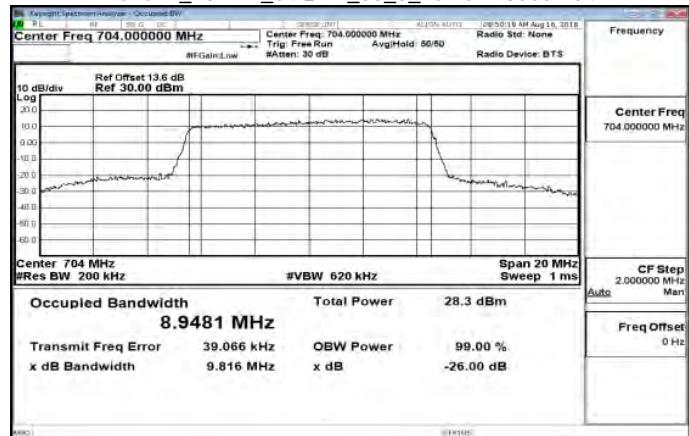
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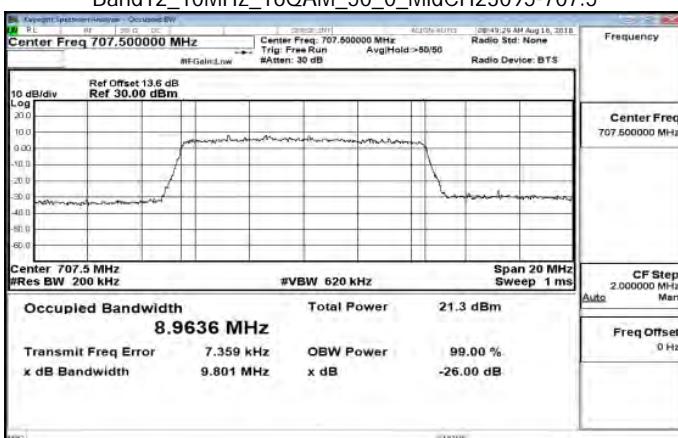
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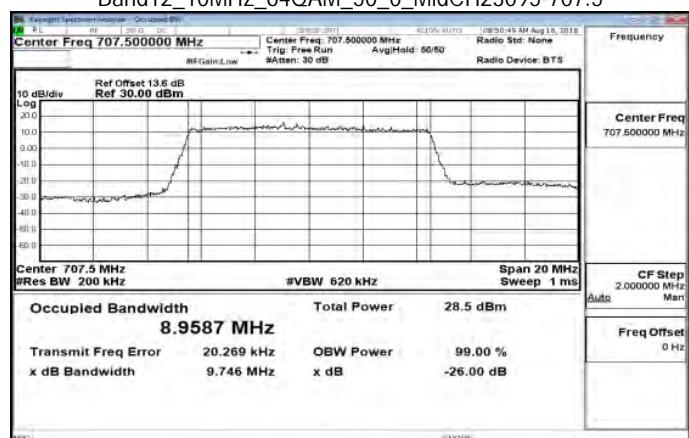
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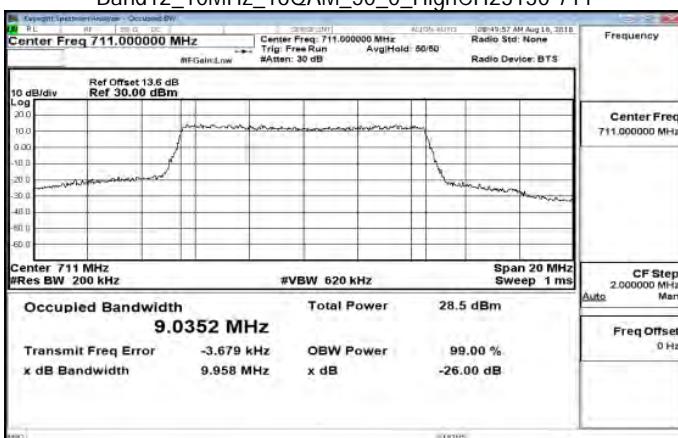
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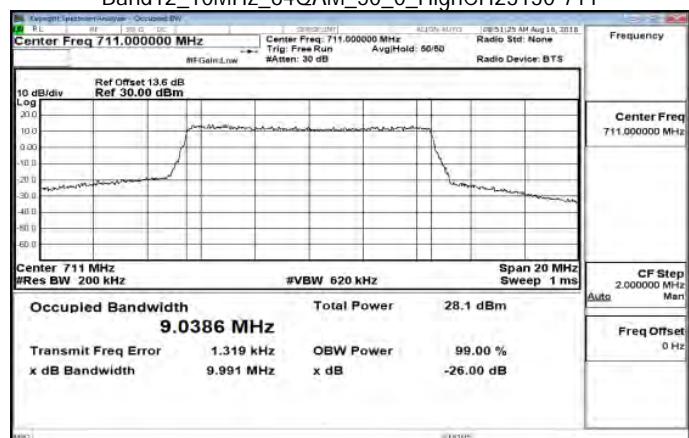
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Band12_10MHz_16QAM_50_0_HighCH23130-711



Band12_10MHz_64QAM_50_0_HighCH23130-711



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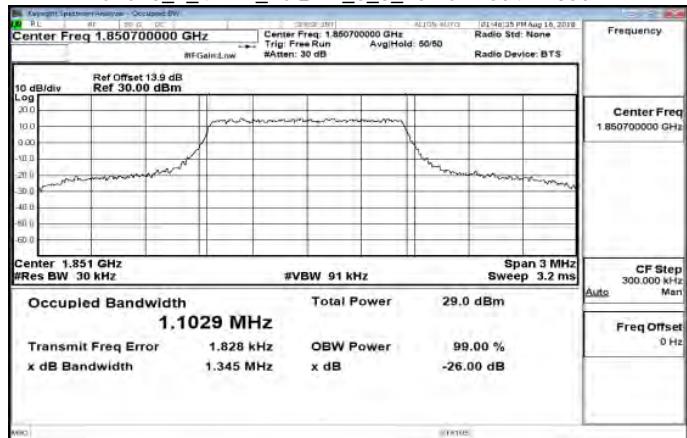
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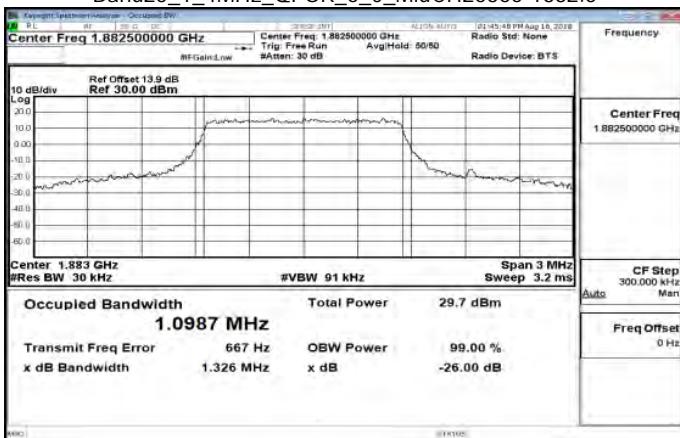
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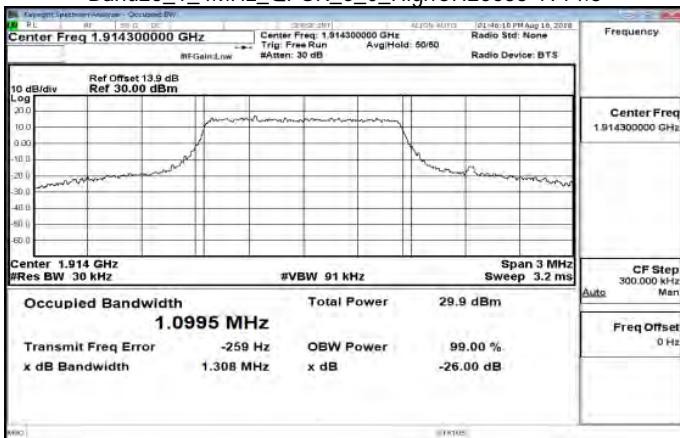
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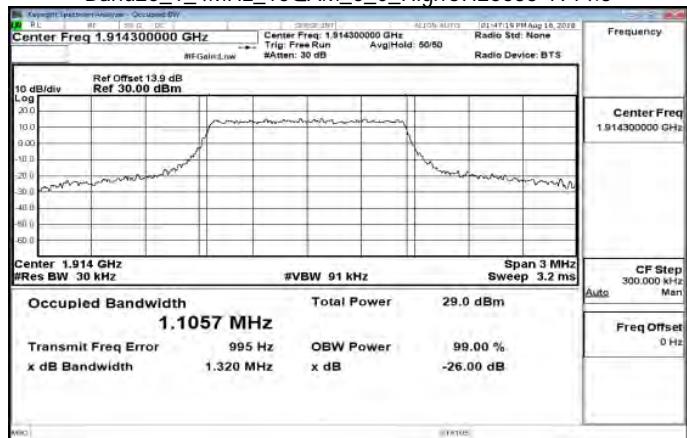
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Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



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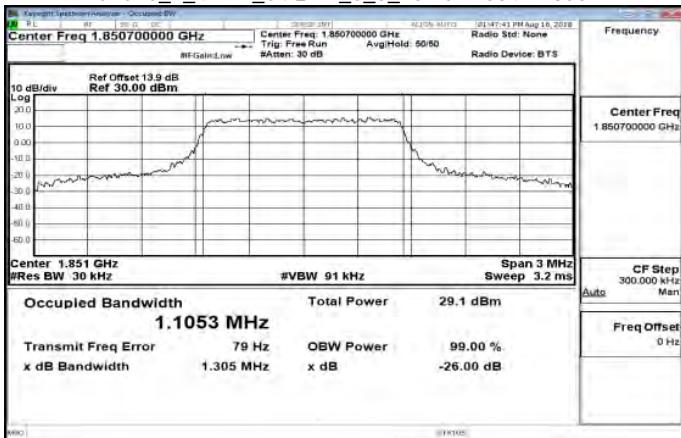
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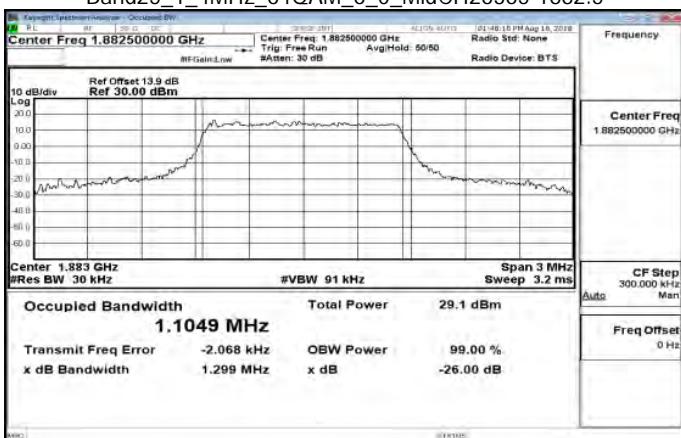
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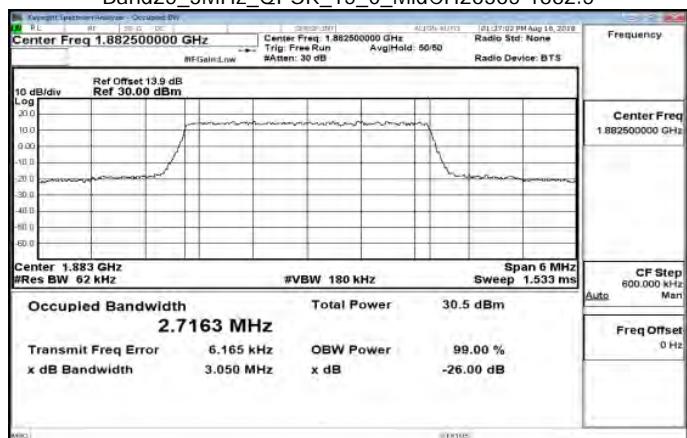
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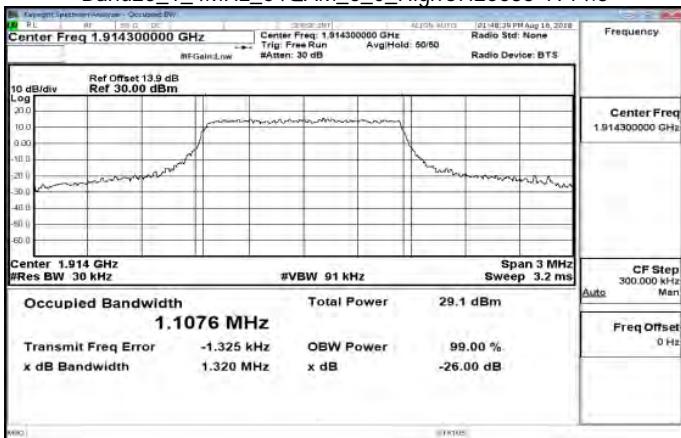
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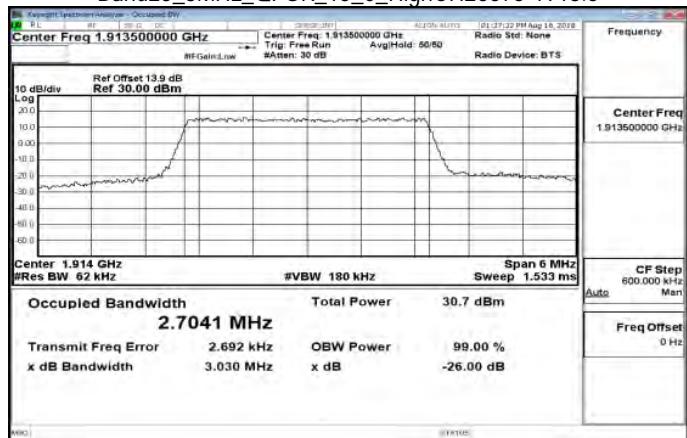
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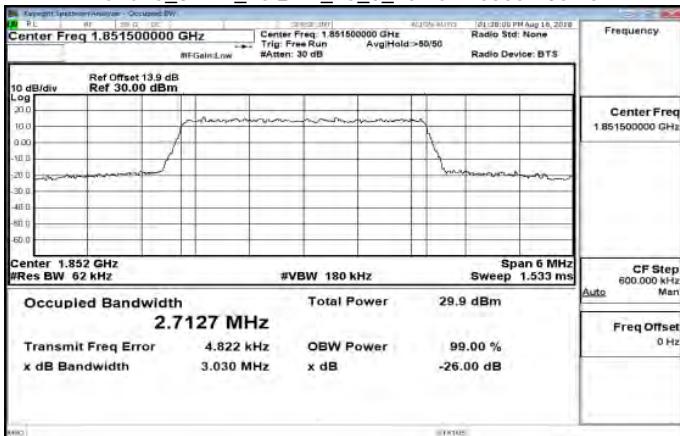
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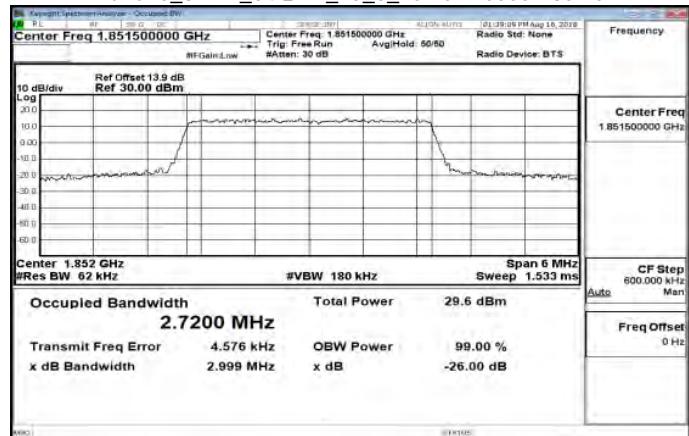
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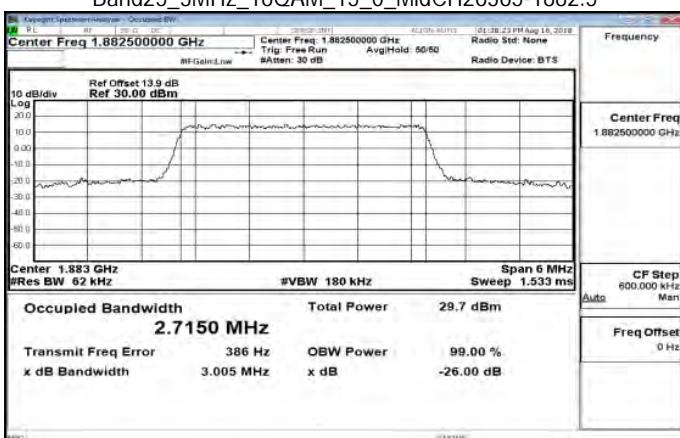
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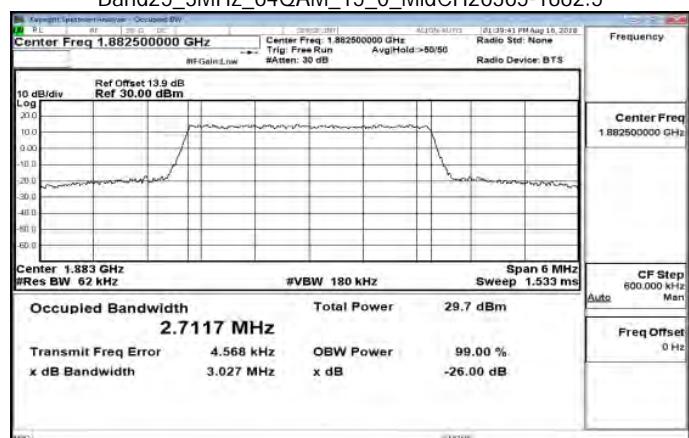
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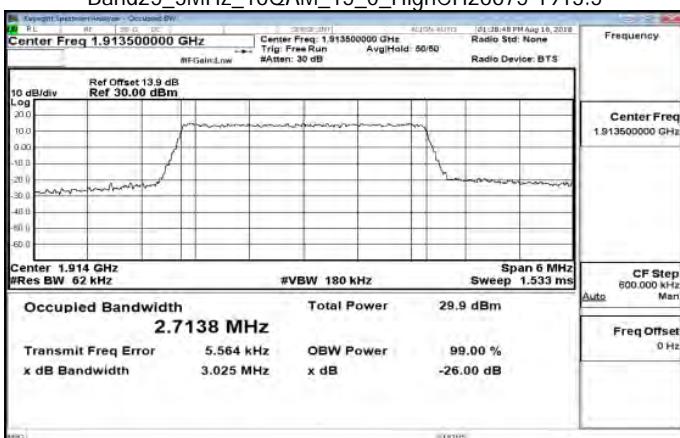
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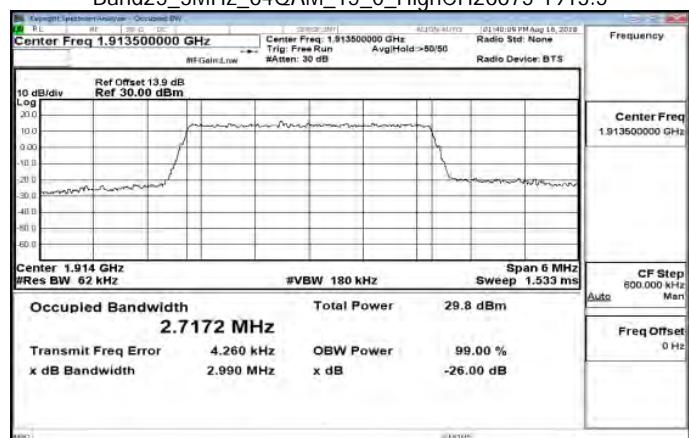
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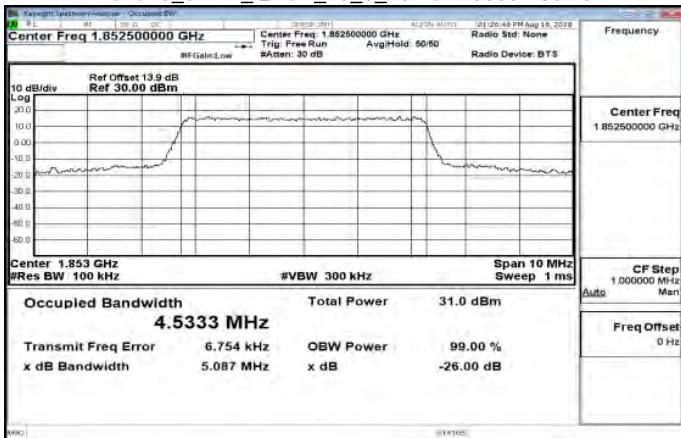
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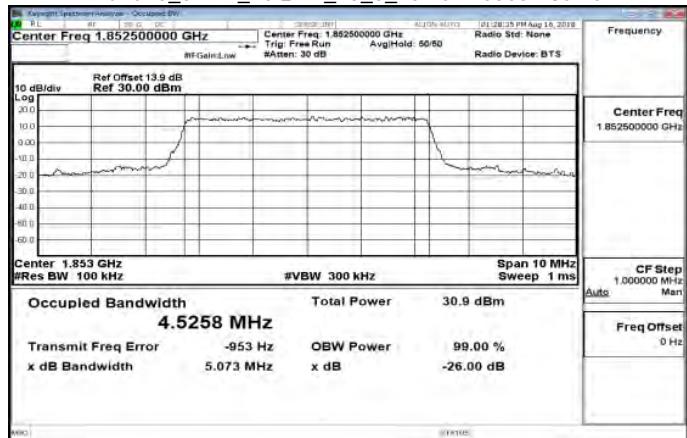
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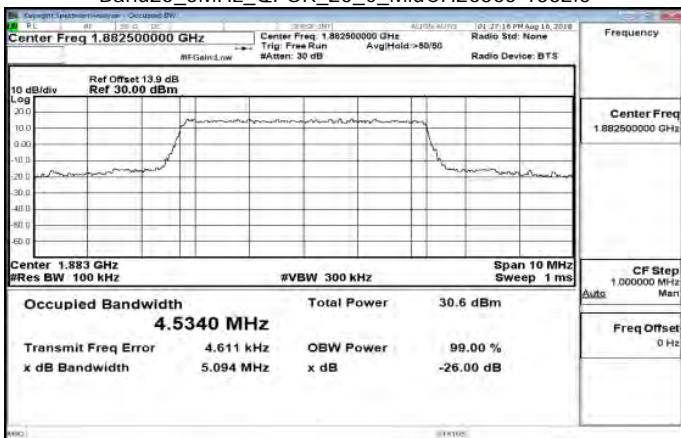
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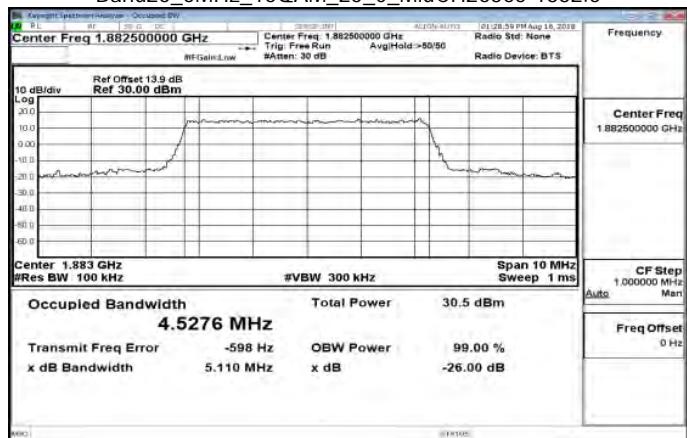
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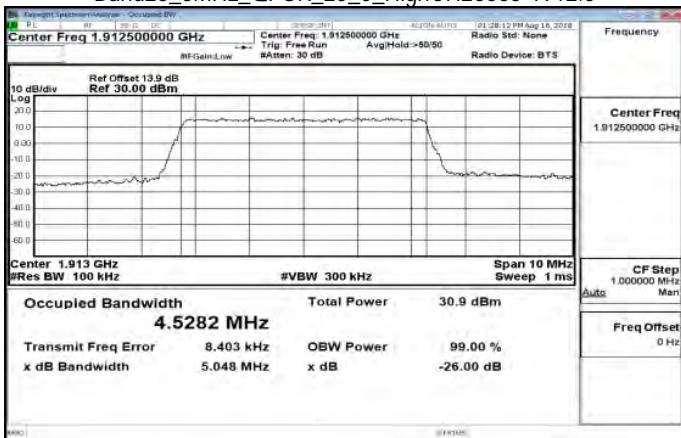
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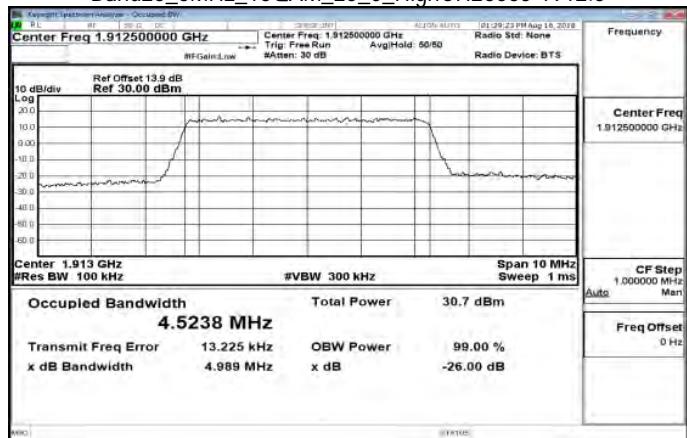
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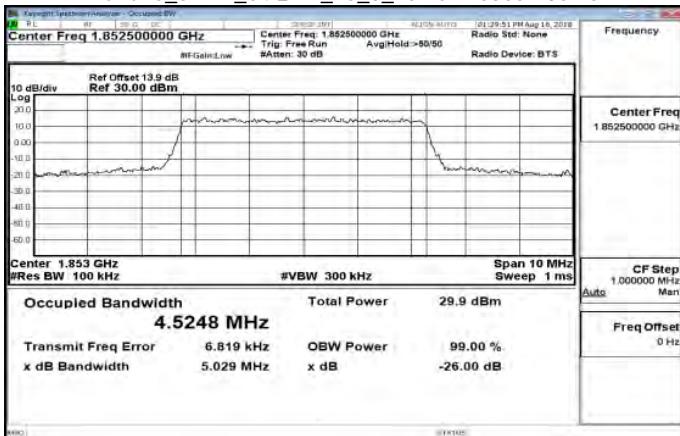
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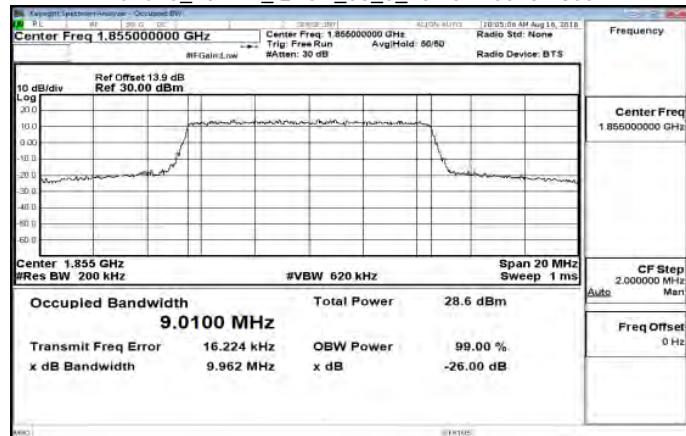
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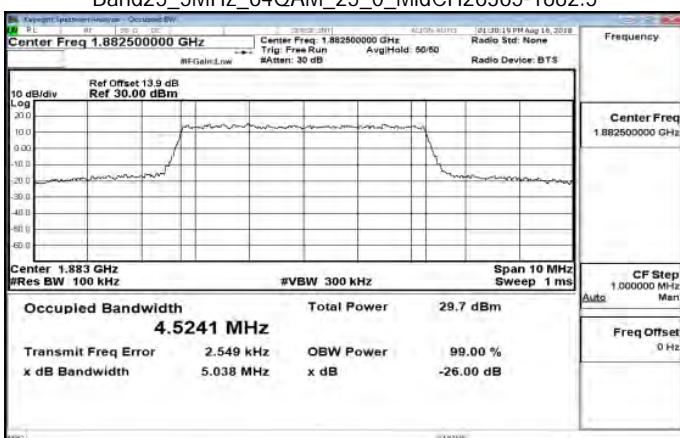
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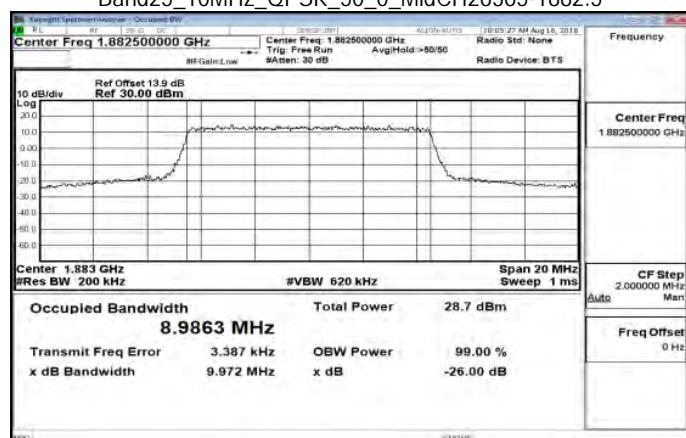
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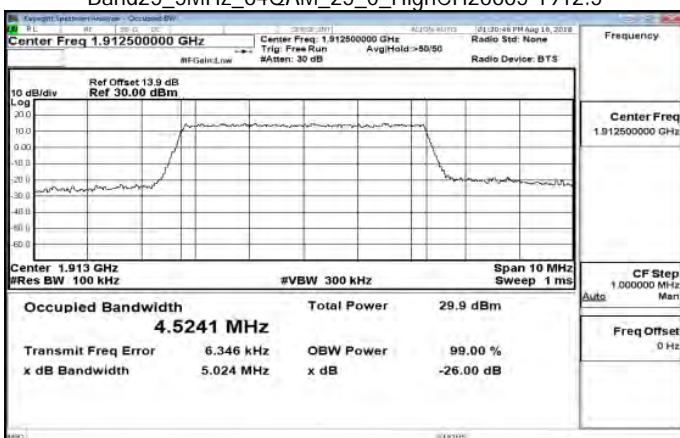
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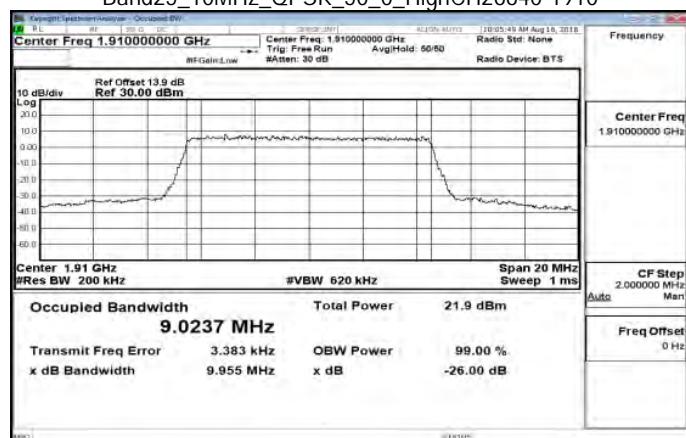
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Band25_5MHz_64QAM_25_0_HighCH26665-1912.5



Band25_10MHz_QPSK_50_0_HighCH26640-1910



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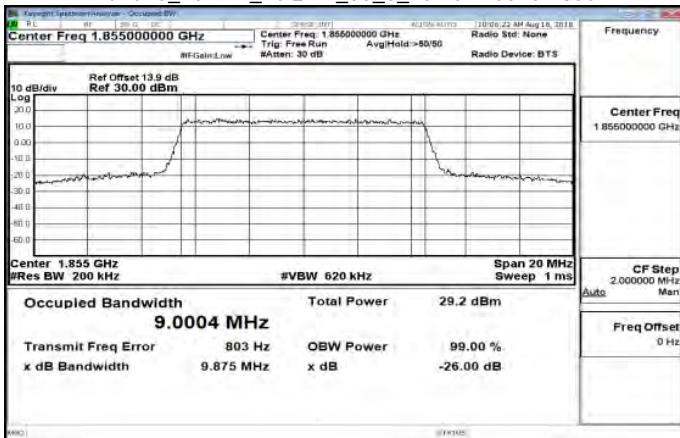
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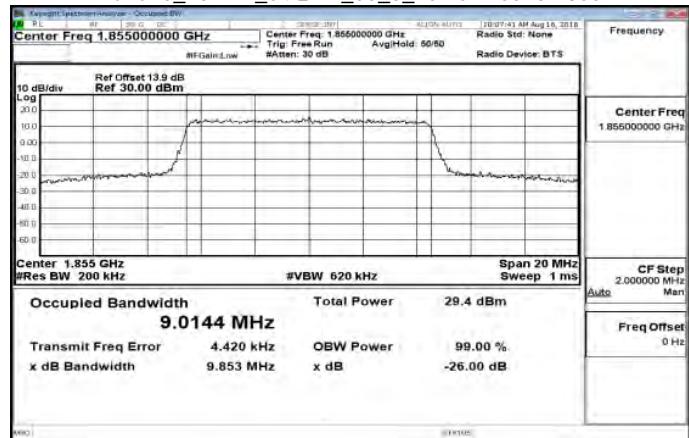
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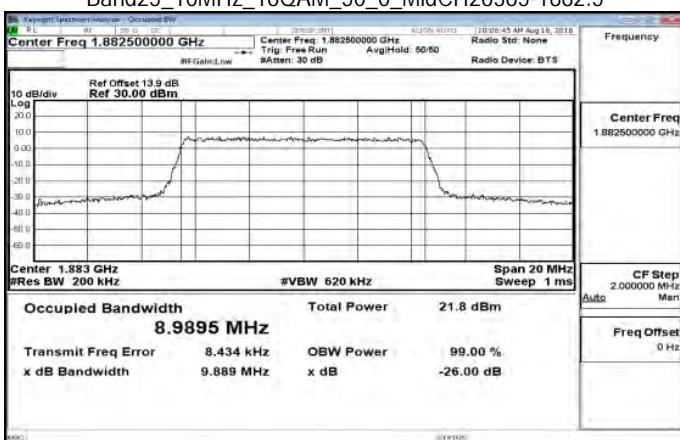
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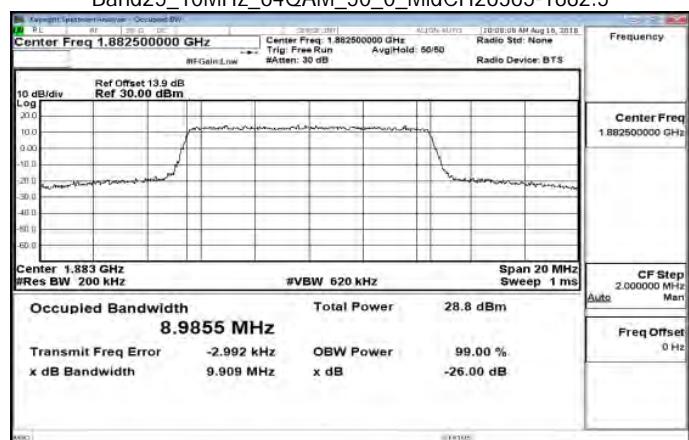
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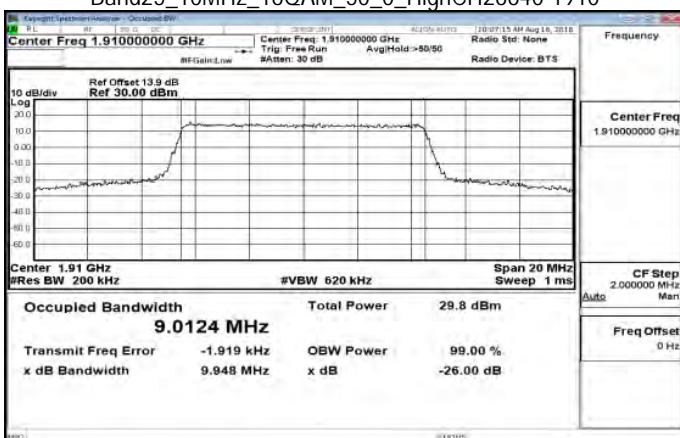
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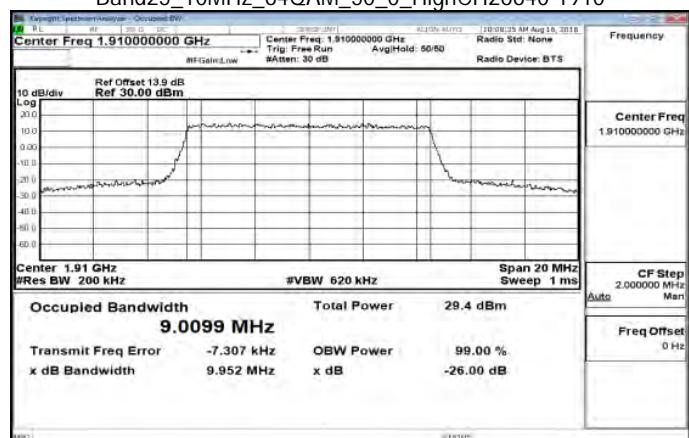
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Band25_10MHz_16QAM_50_0_HighCH26640-1910



Band25_10MHz_64QAM_50_0_HighCH26640-1910



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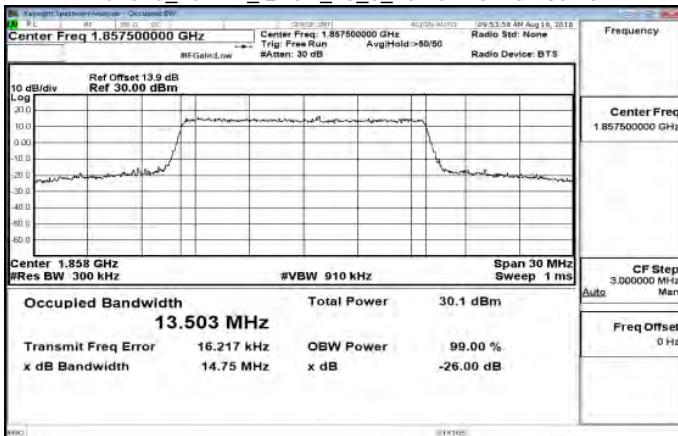
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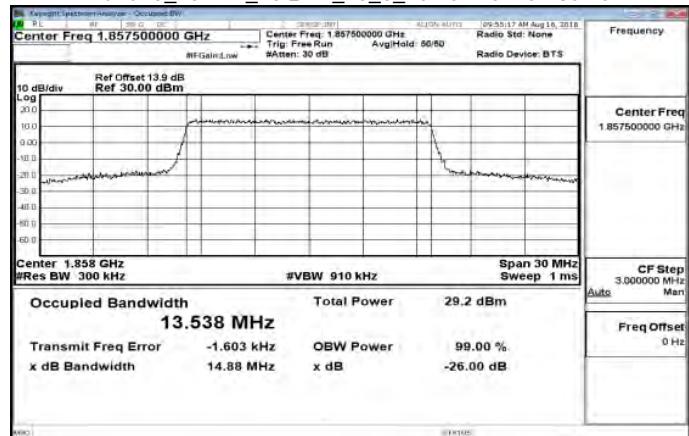
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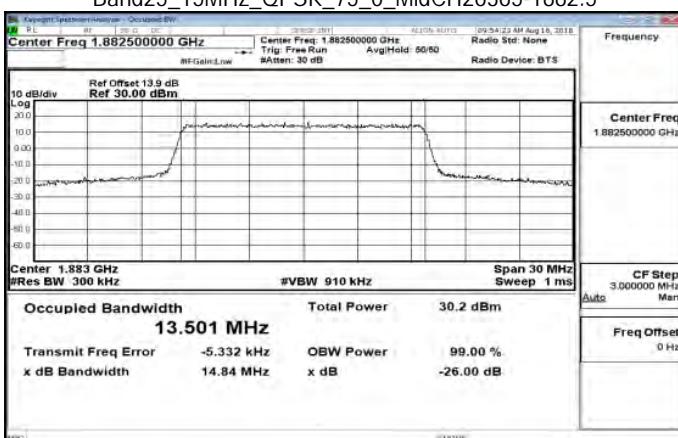
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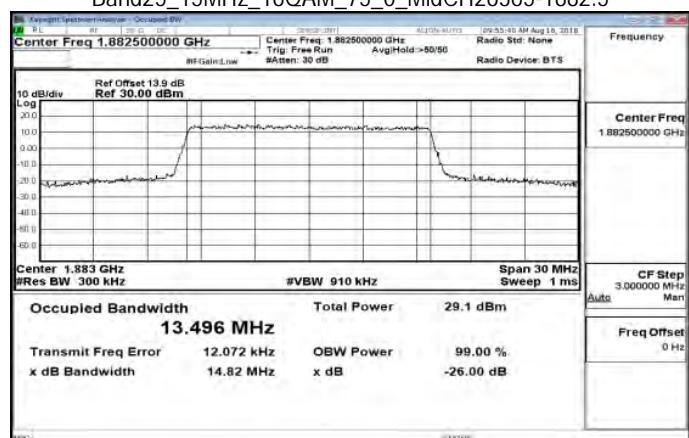
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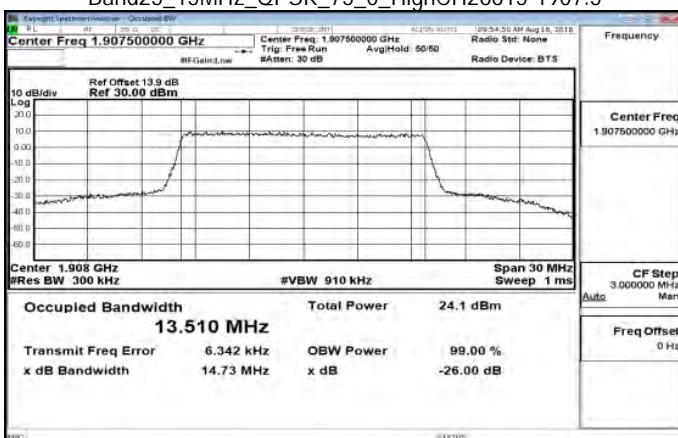
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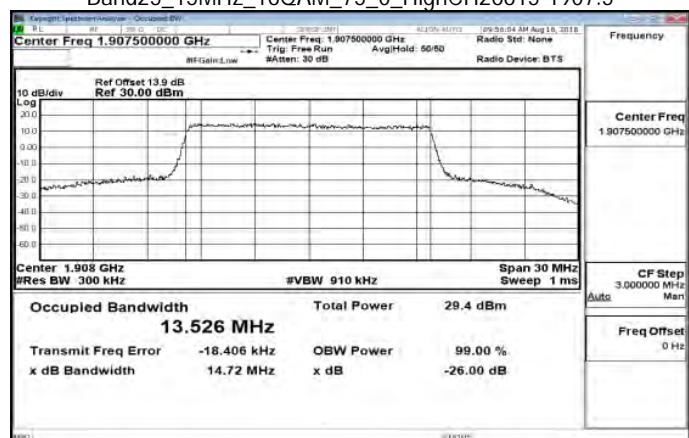
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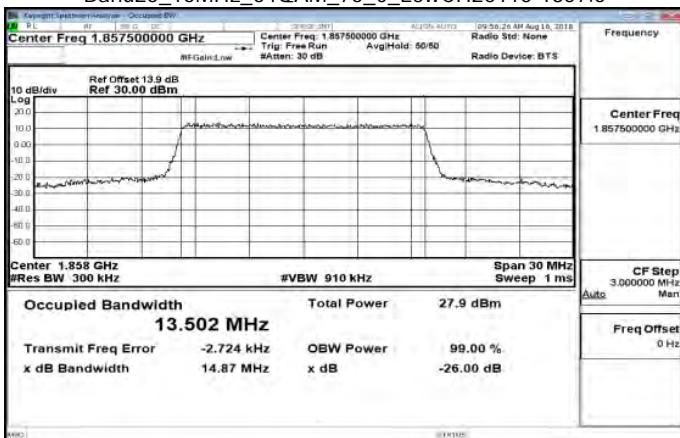
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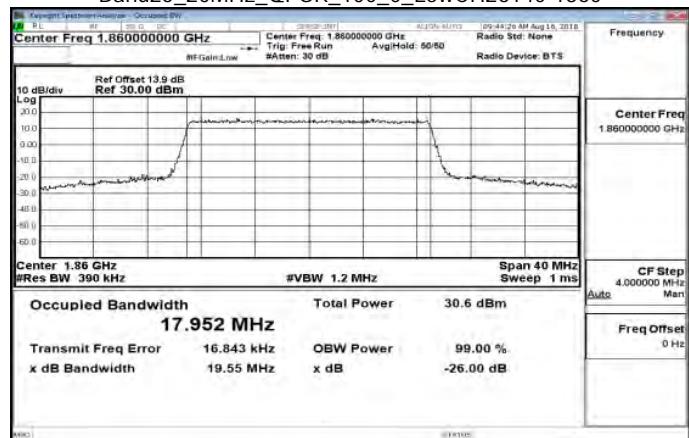
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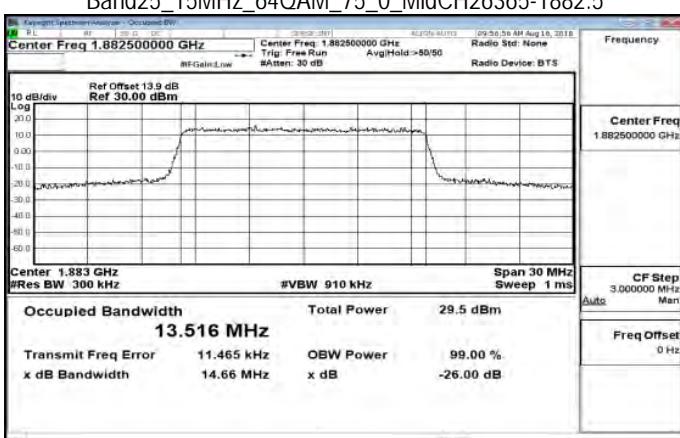
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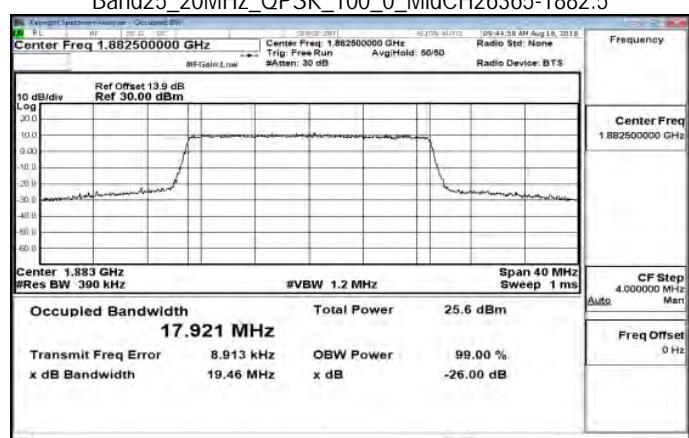
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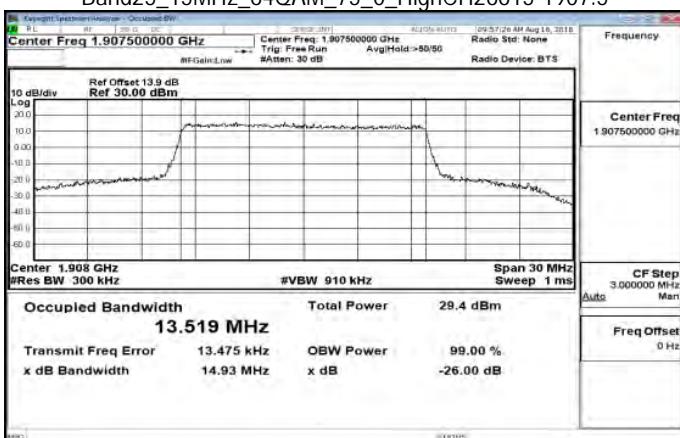
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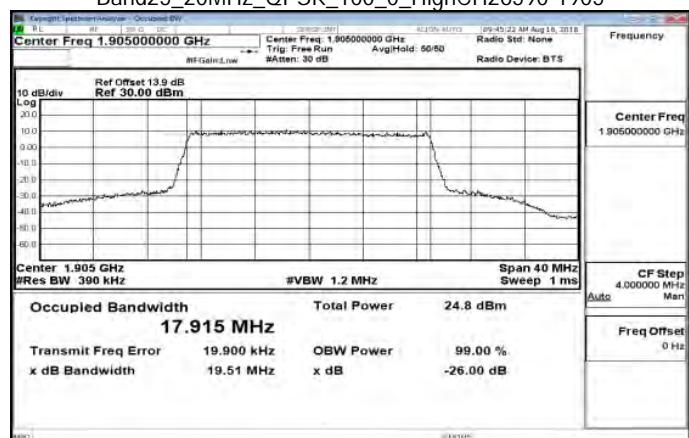
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Band25_15MHz_64QAM_75_0_HighCH26615-1907.5



Band25_20MHz_QPSK_100_0_HighCH26590-1905



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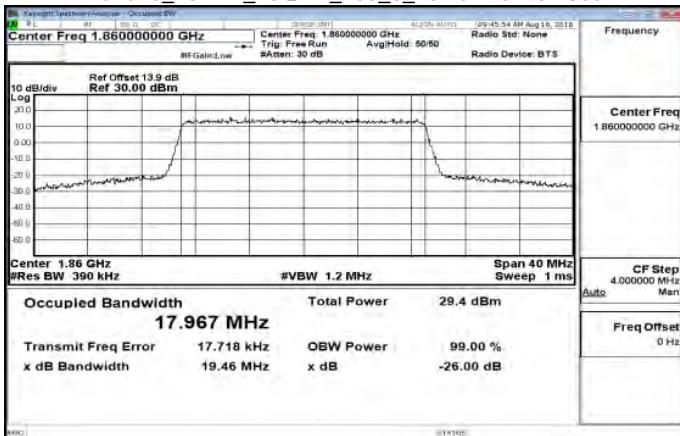
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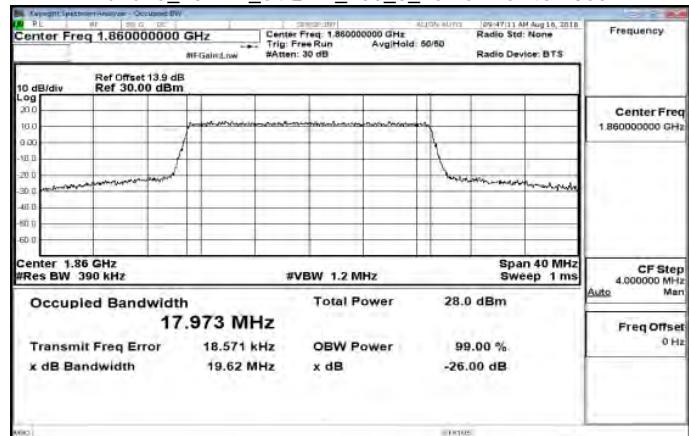
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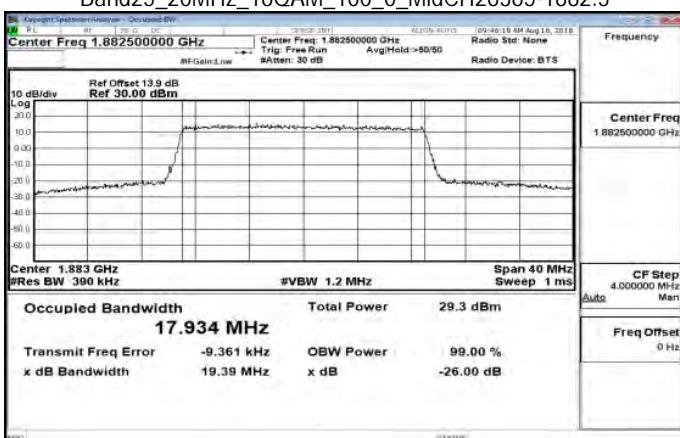
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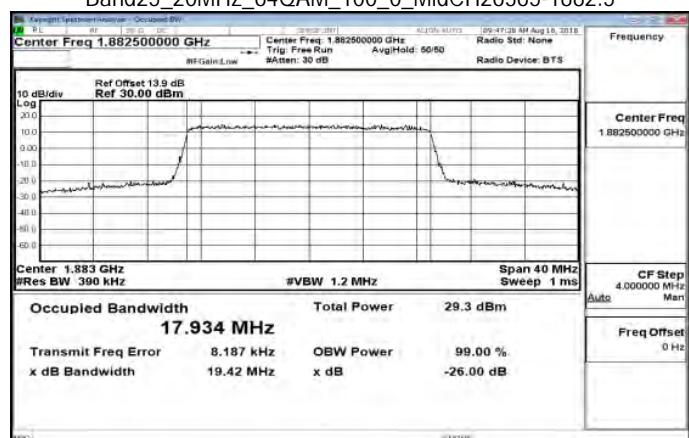
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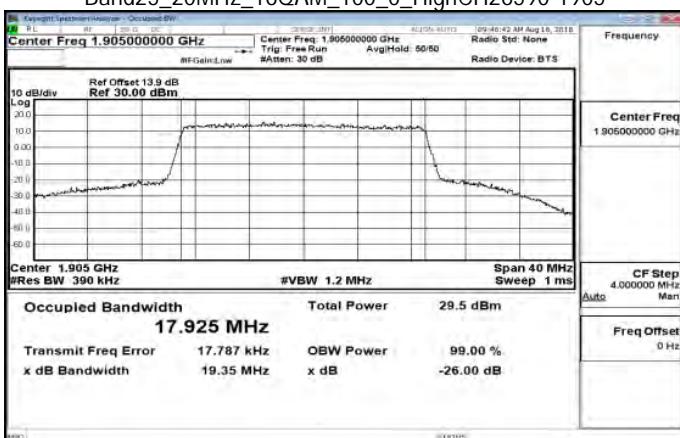
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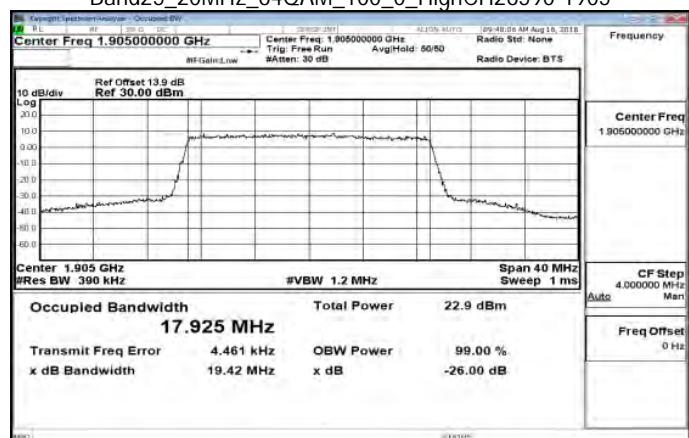
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Band25_20MHz_16QAM_100_0_HighCH26590-1905



Band25_20MHz_64QAM_100_0_HighCH26590-1905



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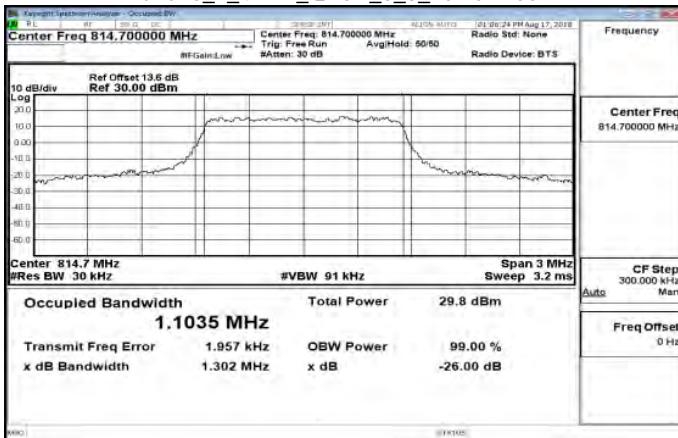
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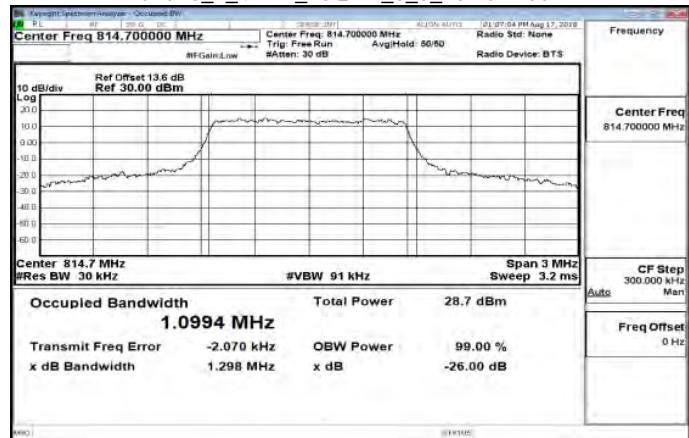
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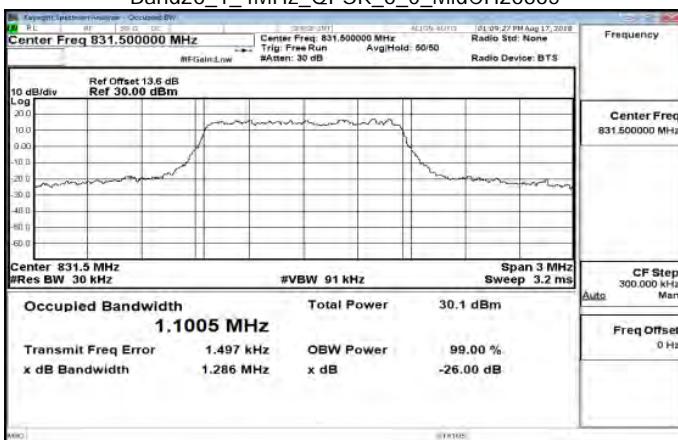
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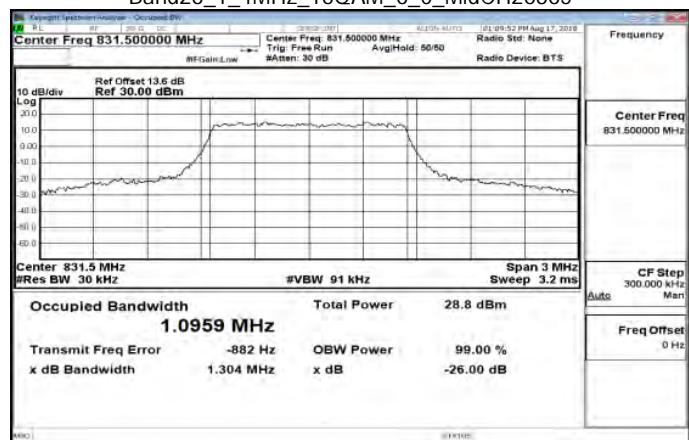
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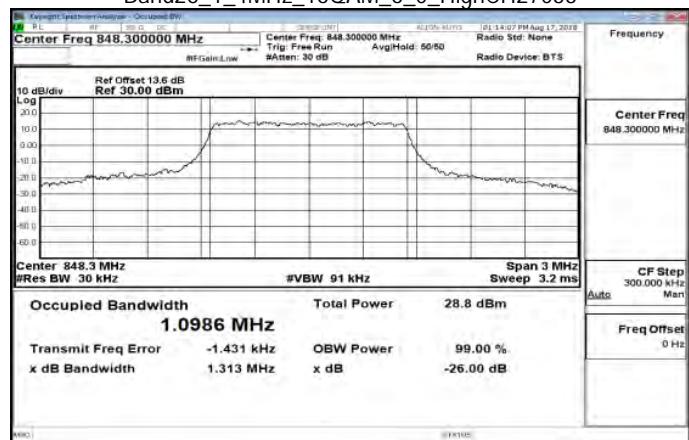
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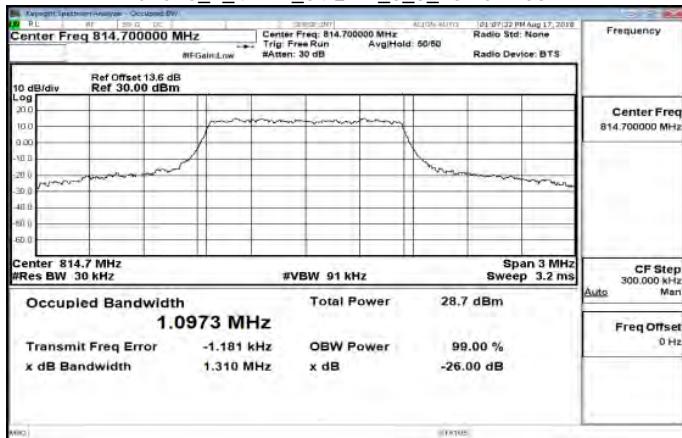
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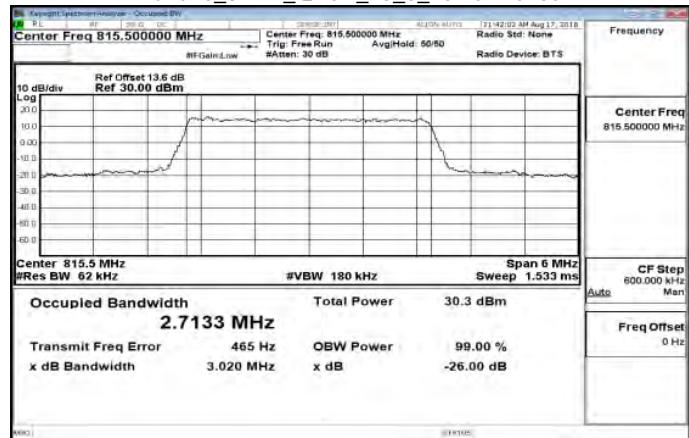
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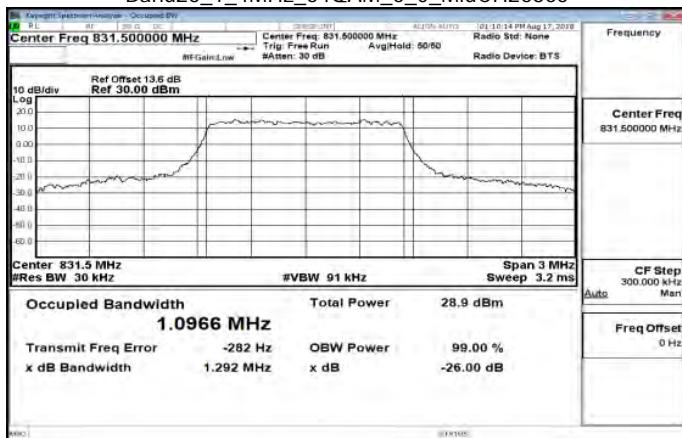
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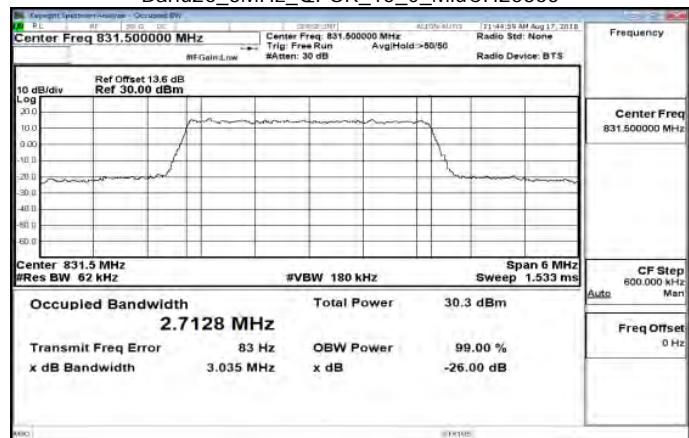
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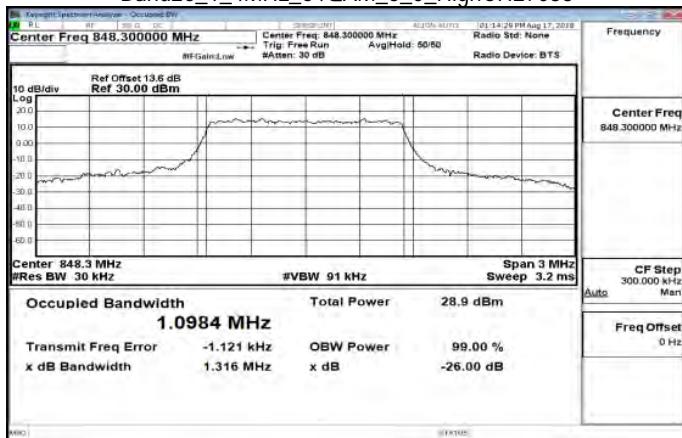
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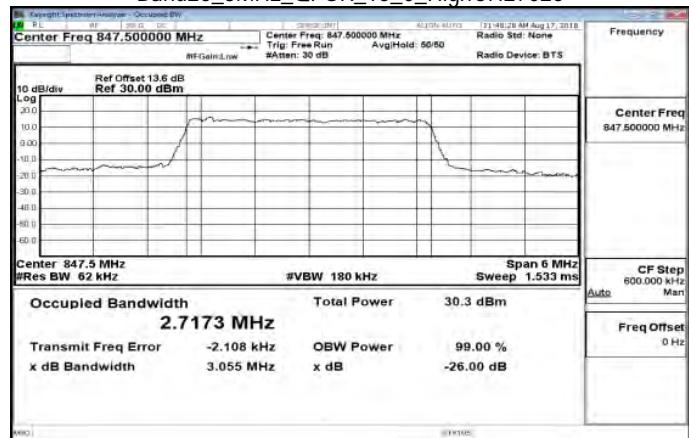
Band26_3MHz_QPSK_15_0_MidCH26865



Band26_1_4MHz_64QAM_6_0_HighCH27033



Band26_3MHz_QPSK_15_0_HighCH27025



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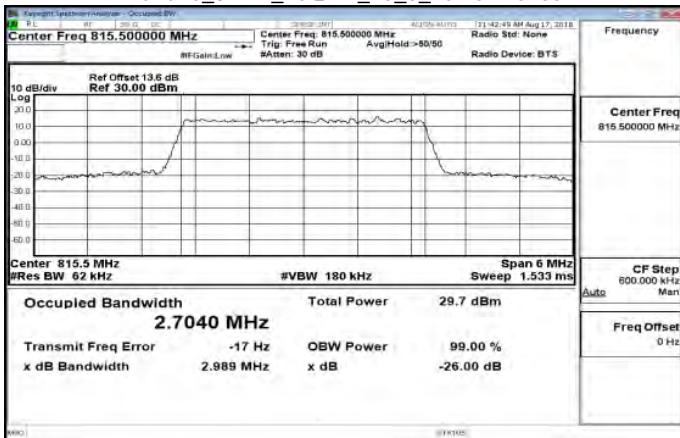
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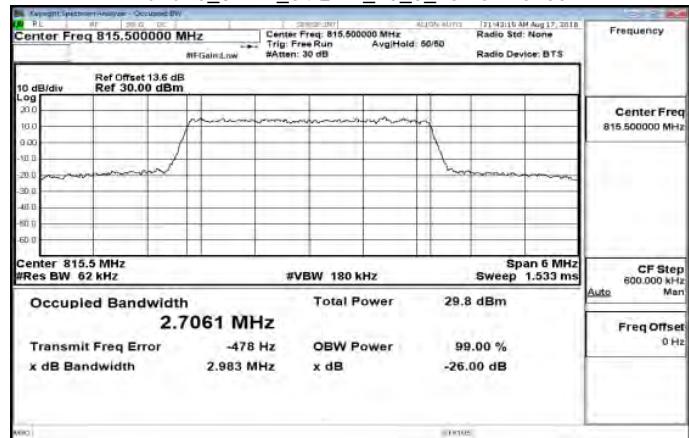
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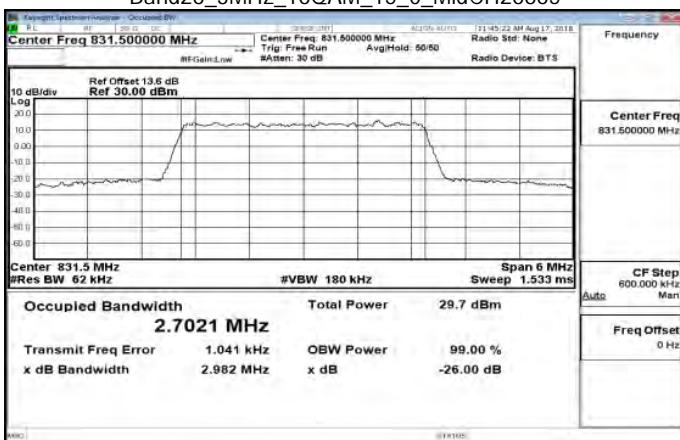
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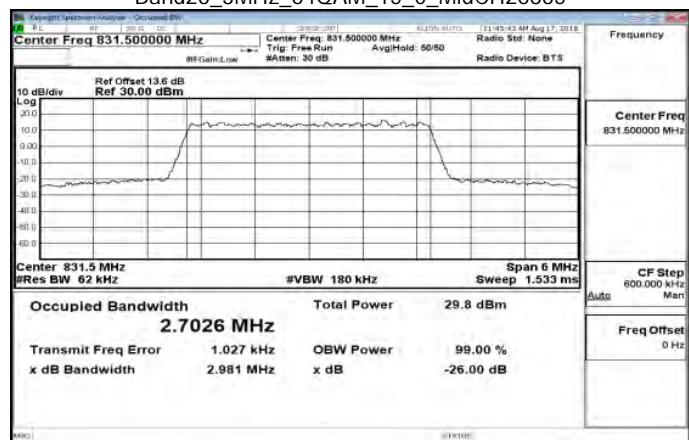
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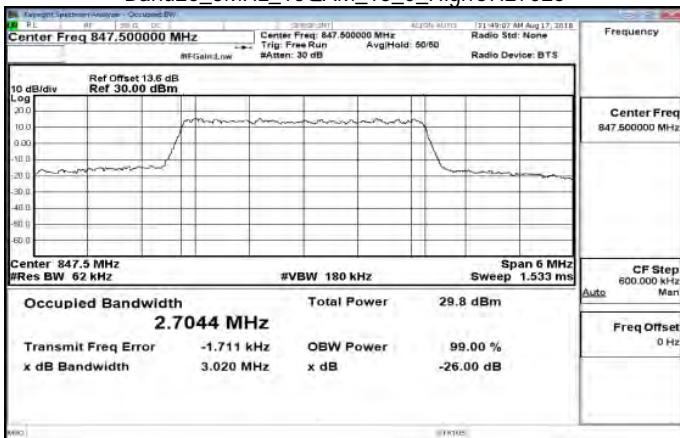
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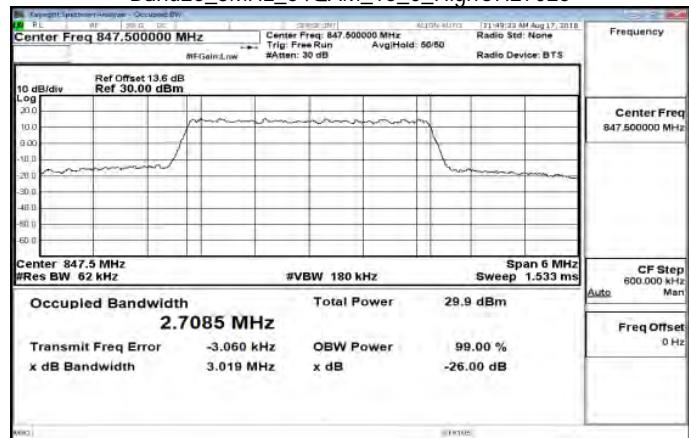
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Band26_3MHz_16QAM_15_0_HighCH27025



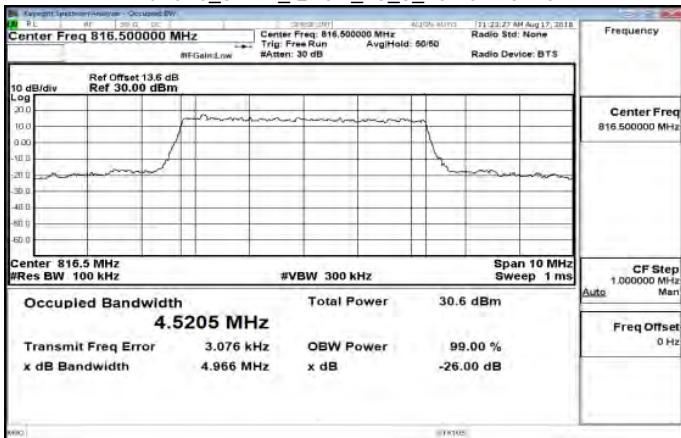
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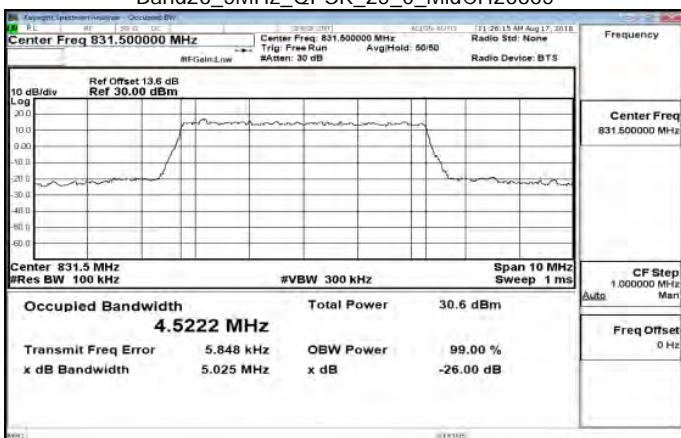
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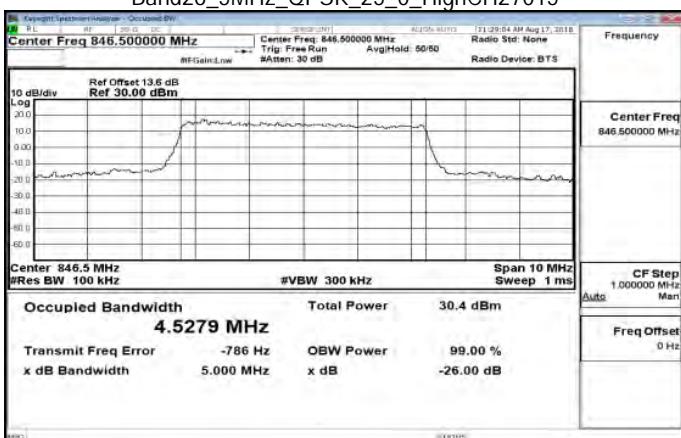
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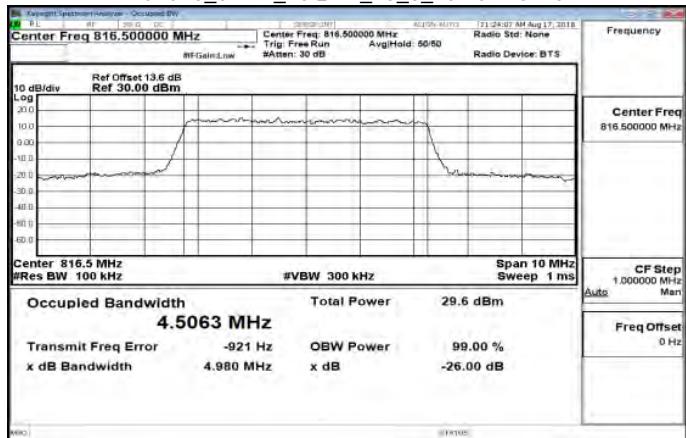
Band26 5MHz QPSK 25 0 MidCH26865



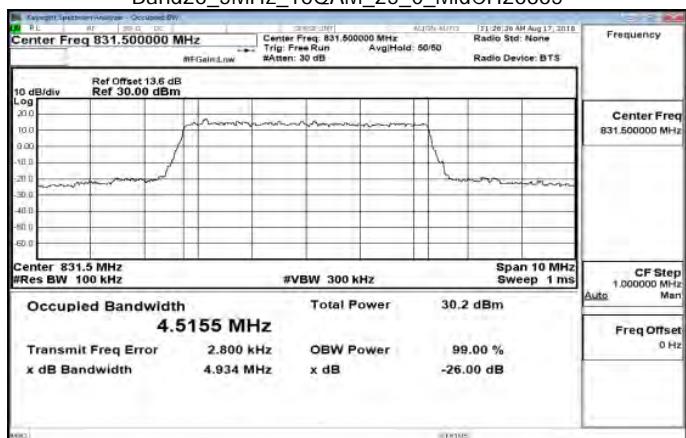
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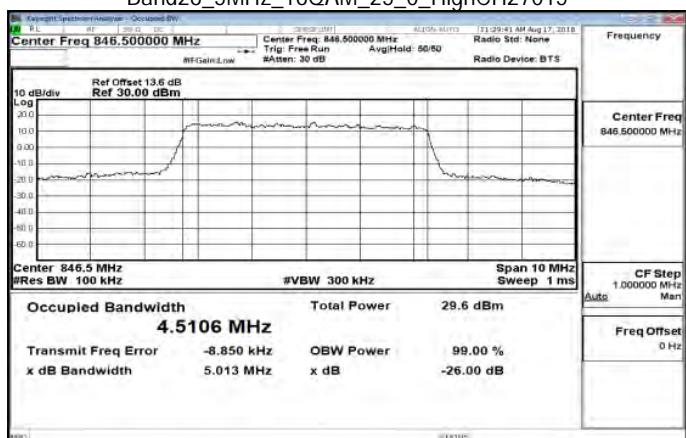
Band26_5MHz_16QAM_25_0_LowCH26715



Band26 5MHz 16QAM 25 0 MidCH26865



Band26 5MHz 16QAM 25 0 HighCH27015

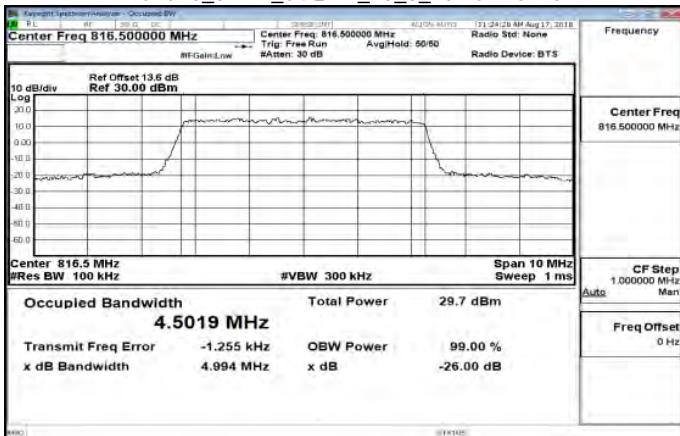


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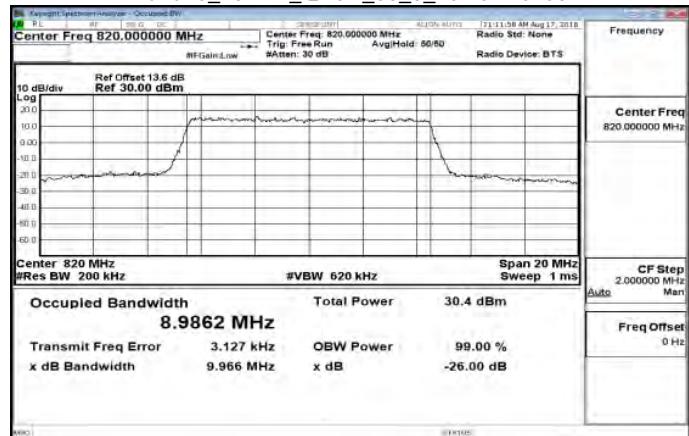
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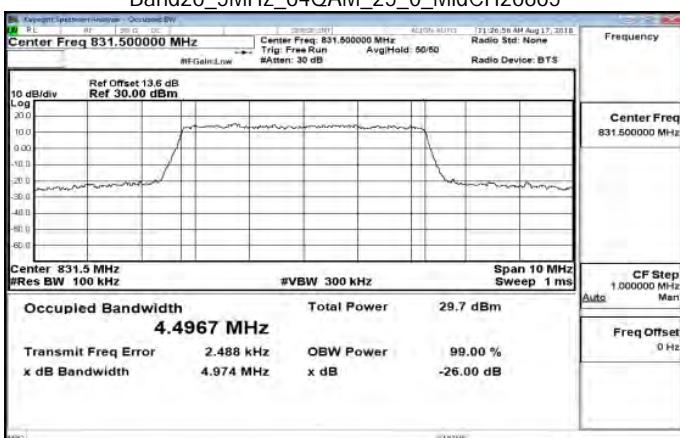
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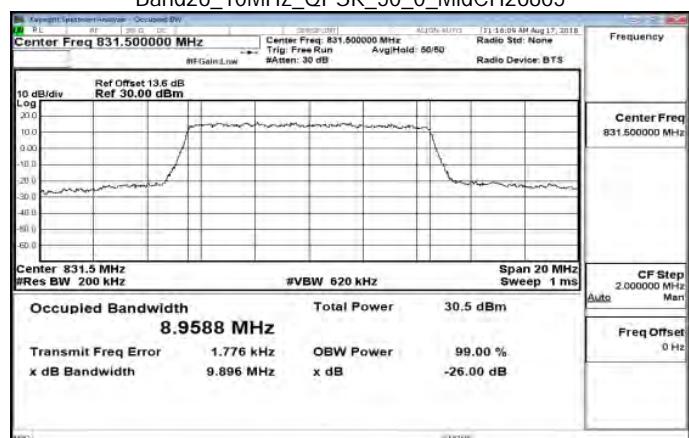
Band26_10MHz_QPSK_50_0_LowCH26750



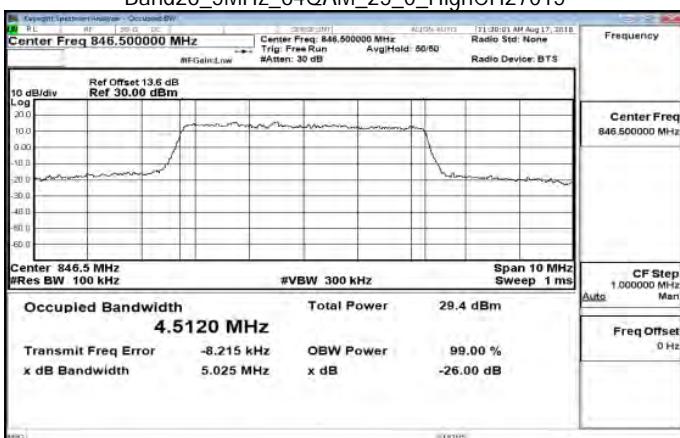
Band26_5MHz_64QAM_25_0_MidCH26865



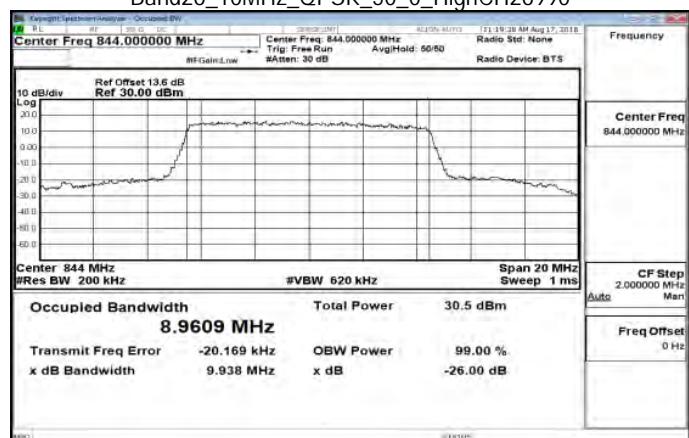
Band26_10MHz_QPSK_50_0_MidCH26865



Band26_5MHz_64QAM_25_0_HighCH27015



Band26_10MHz_QPSK_50_0_HighCH26990



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