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:	HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States
Product Name:	Convertible PC
Brand Name:	HP
Model No.:	TPN-C137
Model Difference:	N/A
FCC ID:	B94TNC137FWPH
Report Number:	ER/2018/70125
FCC Rule Part:	2 , 22H & 24E & 27B, C & L & 90S
Issue Date:	Aug. 27, 2018
Date of Test:	Jul. 27, 2018 ~ Aug. 22, 2018
Date of EUT Received:	Jul. 27, 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: Marcus Tseng

Marcus Tseng / Sr. Enigneer

Approved By: Jim Chang

Jim Chang / Manager

Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2018/70125	Rev.00	Initial creation of document	All	Aug. 27, 2018	Violetta Tang

Contents

1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Convertible PC	
Brand Name:	HP	
Model No.:	TPN-C137	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
WWAN Module:	Brand Name : Fibocom Model Name : L860-GL	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-IB8J, Supplier: N/A.
	Adapter:	Model No.: TPN-LA12, Supplier: LiteON
IMEI:	867921030054554	

1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)			
WCDMA / HSPA+ Band II	1852.4	-	1907.6
WCDMA / HSPA+ Band IV	1712.4	-	1752.6
WCDMA / HSPA+ Band V	826.4	-	846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)			LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7	-	1909.3	13	5	779.5	-	784.5
	3	1851.5	-	1908.5		10	782		
	5	1852.5	-	1907.5	14	5	790.5	-	795.5
	10	1855.0	-	1905.0		10	793		
	15	1857.5	-	1902.5	17	5	706.5	-	713.5
	20	1860.0	-	1900.0		10	709.0	-	711.0
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	26 Part90	1.4	814.7	-	823.3
5	1.4	824.7	-	848.3		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	30	5	2307.5	-	2312.5
12	1.4	699.7	-	715.3		10	2310.0		
	3	700.5	-	714.5	38	5	2572.5	-	2617.5
	5	701.5	-	713.5		10	2575.0	-	2615.0
	10	704.0	-	711.0		15	2577.5	-	2612.5
						20	2580.0	-	2610.0

LTE Band	BW (MHz)	Operation Frequency (MHz)			LTE Band	BW (MHz)	Operation Frequency (MHz)		
41	5	2498.5	-	2687.5	66	1.4	1710.7	-	1779.3
	10	2501.0	-	2685.0		3	1711.5	-	1778.5
	15	2503.5	-	2682.5		5	1712.5	-	1777.5
	20	2506.0	-	2680.0		10	1715.0	-	1775.0
25	1.4	1850.7	-	1914.3		15	1717.5	-	1772.5
	3	1851.5	-	1913.5		20	1720.0	-	1770.0
	5	1852.5	-	1912.5					
	10	1855.0	-	1910.0					
	15	1857.5	-	1907.5					
	20	1860.0	-	1905.0					

Antenna Designation: NB Mode

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Advanced Wireless & Antenna Inc.	PIFA	Main	AML6Y-10057 (DC330024W00)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	2.48
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	1.99
				WCDMA / HSPA Band V	826.4 ~ 846.6	-3.38
				LTE Band 2	1850 ~ 1910	2.48
				LTE Band 4	1710 ~ 1755	2.39
				LTE Band 5	824 ~ 849	-3.02
				LTE Band 12	699 ~ 716	-1.87
				LTE Band 13	777 ~ 787	-1.31
				LTE Band 14	788 ~ 798	-1.79
				LTE Band 17	704 ~ 716	-1.87
				LTE Band 25	1850 ~ 1915	2.48
				LTE Band 26	824 ~ 849	-3.02
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	2.33
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-0.81
				LTE Band 66	1710 ~ 1780	2.39
	PIFA	Aux	AML6Y-10058 (DC330024W10)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.51
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.51
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 14	788 ~ 798	-2.03
				LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	0.51
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 (Part 90S)	814 ~ 824	-2.46
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-2.52
				LTE Band 66	1710 ~ 1780	N/A

Antenna Designation: Tablet Mode

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Advanced Wireless & Antenna Inc.	PIFA	Main	AML6Y-10057 (DC330024W00)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-5.37
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-4.05
				WCDMA / HSPA Band V	826.4 ~ 846.6	-14.01
				LTE Band 2	1850 ~ 1910	-5.17
				LTE Band 4	1710 ~ 1755	-3.75
				LTE Band 5	824 ~ 849	-14.01
				LTE Band 12	699 ~ 716	-11.68
				LTE Band 13	777 ~ 787	-12.87
				LTE Band 14	788 ~ 798	-14.23
				LTE Band 17	704 ~ 716	-11.68
				LTE Band 25	1850 ~ 1915	-5.17
				LTE Band 26	824 ~ 849	-14.01
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	-3.09
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-7.49
				LTE Band 66	1710 ~ 1780	-3.75
	PIFA	Aux	AML6Y-10058 (DC330024W10)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-8.28
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	-8.28
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 14	788 ~ 798	-14.06
				LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	-8.28
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 (Part 90S)	814 ~ 824	-14.64
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-6.96
				LTE Band 66	1710 ~ 1780	N/A

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	26.34	EIRP	0.431	4M25F9W
HSDPA Band II	26.32	EIRP	0.429	4M24F9W
HSUPA Band II	25.73	EIRP	0.374	4M25F9W
WCDMA Band IV	26.08	EIRP	0.406	4M07F9W
HSDPA Band IV	26.07	EIRP	0.405	4M08F9W
HSUPA Band IV	25.52	EIRP	0.356	4M08F9W
WCDMA Band V	21.12	ERP	0.129	4M10F9W
HSDPA Band V	21.09	ERP	0.129	4M11F9W
HSUPA Band V	20.48	ERP	0.112	4M11F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	27.17	EIRP	0.521	1M76G7D
	1.4	16QAM	26.39	EIRP	0.436	1M88D7W
	3	QPSK	27.10	EIRP	0.513	3M57G7D
	3	16QAM	26.37	EIRP	0.434	3M72D7W
	5	QPSK	27.17	EIRP	0.521	4M99G7D
	5	16QAM	26.43	EIRP	0.440	4M56D7W
	10	QPSK	27.25	EIRP	0.531	9M21G7D
	10	16QAM	26.46	EIRP	0.443	9M11D7W
	15	QPSK	27.29	EIRP	0.536	13M7G7D
	15	16QAM	26.47	EIRP	0.444	13M6D7W
	20	QPSK	27.36	EIRP	0.545	18M1G7D
	20	16QAM	26.46	EIRP	0.443	18M1D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	26.96	EIRP	0.497	1M12G7D
	1.4	16QAM	26.25	EIRP	0.422	1M11D7W
	3	QPSK	26.90	EIRP	0.490	2M72G7D
	3	16QAM	26.25	EIRP	0.422	2M73D7W
	5	QPSK	27.00	EIRP	0.501	4M54G7D
	5	16QAM	26.32	EIRP	0.429	4M52D7W
	10	QPSK	27.04	EIRP	0.506	9M09G7D
	10	16QAM	26.39	EIRP	0.436	9M09D7W
	15	QPSK	27.02	EIRP	0.504	13M6G7D
	15	16QAM	26.32	EIRP	0.429	13M6D7W
	20	QPSK	27.02	EIRP	0.504	18M1G7D
	20	16QAM	26.35	EIRP	0.432	18M1D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	21.50	ERP	0.141	1M11G7D
	1.4	16QAM	20.79	ERP	0.120	1M12D7W
	3	QPSK	21.46	ERP	0.140	2M73G7D
	3	16QAM	20.81	ERP	0.121	2M73D7W
	5	QPSK	21.54	ERP	0.143	4M55G7D
	5	16QAM	20.86	ERP	0.122	4M55D7W
	10	QPSK	21.60	ERP	0.145	9M11G7D
	10	16QAM	20.86	ERP	0.122	9M17D7W
12	1.4	QPSK	22.22	ERP	0.167	1M12G7D
	1.4	16QAM	21.56	ERP	0.143	1M12D7W
	3	QPSK	22.18	ERP	0.165	2M74G7D
	3	16QAM	21.69	ERP	0.148	2M73D7W
	5	QPSK	22.24	ERP	0.167	4M55G7D
	5	16QAM	21.64	ERP	0.146	4M53D7W
	10	QPSK	22.40	ERP	0.174	9M16G7D
	10	16QAM	21.99	ERP	0.158	9M10D7W
13	5	QPSK	23.45	ERP	0.221	4M55G7D
	5	16QAM	22.56	ERP	0.180	4M55D7W
	10	QPSK	23.55	ERP	0.226	8M99G7D
	10	16QAM	22.49	ERP	0.177	9M03D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
14	5	QPSK	22.91	ERP	0.195	4M58D7W
	5	16QAM	22.03	ERP	0.160	9M09G7D
	10	QPSK	22.93	ERP	0.196	9M16D7W
	10	16QAM	22.06	ERP	0.161	4M54G7D
17	5	QPSK	21.94	ERP	0.156	4M54D7W
	5	16QAM	21.27	ERP	0.134	9M09G7D
	10	QPSK	22.00	ERP	0.158	9M10D7W
	10	16QAM	21.35	ERP	0.136	4M58D7W
26	1.4	QPSK	21.54	ERP	0.143	1M11G7D
	1.4	16QAM	20.99	ERP	0.126	1M12D7W
	3	QPSK	21.51	ERP	0.142	2M73G7D
	3	16QAM	20.94	ERP	0.124	2M74D7W
	5	QPSK	21.61	ERP	0.145	4M55G7D
	5	16QAM	20.80	ERP	0.120	4M54D7W
	10	QPSK	21.69	ERP	0.148	9M10G7D
	10	16QAM	21.15	ERP	0.130	9M12D7W
	15	QPSK	21.81	ERP	0.152	13M6G7D
	15	16QAM	21.08	ERP	0.128	13M6D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26 Part90	1.4	QPSK	21.56	ERP	0.143	1M11G7D
	1.4	16QAM	21.13	ERP	0.130	1M12D7W
	3	QPSK	21.51	ERP	0.142	2M73G7D
	3	16QAM	20.92	ERP	0.124	2M74D7W
	5	QPSK	21.53	ERP	0.142	4M54G7D
	5	16QAM	21.16	ERP	0.131	4M53D7W
	10	QPSK	21.64	ERP	0.146	9M07G7D
	10	16QAM	20.91	ERP	0.123	9M11D7W
30	5	QPSK	22.38	EIRP	0.173	4M60G7D
	5	16QAM	21.79	EIRP	0.151	4M59D7W
	10	QPSK	22.34	EIRP	0.171	9M39G7D
	10	16QAM	21.79	EIRP	0.151	9M33D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	23.61	EIRP	0.230	4M54G7D
	5	16QAM	22.80	EIRP	0.191	4M52D7W
	10	QPSK	23.62	EIRP	0.230	9M09G7D
	10	16QAM	22.85	EIRP	0.193	9M08D7W
	15	QPSK	23.78	EIRP	0.239	13M6G7D
	15	16QAM	22.97	EIRP	0.198	13M6D7W
	20	QPSK	23.72	EIRP	0.236	18M0G7D
	20	16QAM	22.95	EIRP	0.197	18M1D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	24.15	EIRP	0.260	4M55G7D
	5	16QAM	23.07	EIRP	0.203	4M55D7W
	10	QPSK	24.17	EIRP	0.261	9M07G7D
	10	16QAM	23.19	EIRP	0.208	9M10D7W
	15	QPSK	24.19	EIRP	0.262	13M6G7D
	15	16QAM	23.17	EIRP	0.207	13M6D7W
	20	QPSK	24.16	EIRP	0.261	18M0G7D
	20	16QAM	23.00	EIRP	0.200	18M4D7W
25	1.4	QPSK	27.17	EIRP	0.521	1M49G7D
	1.4	16QAM	26.43	EIRP	0.440	1M14D7W
	3	QPSK	27.22	EIRP	0.527	2M76G7D
	3	16QAM	26.48	EIRP	0.445	2M76D7W
	5	QPSK	27.11	ERP	0.514	4M62G7D
	5	16QAM	26.46	ERP	0.443	4M56D7W
	10	QPSK	27.02	ERP	0.504	9M09G7D
	10	16QAM	26.44	ERP	0.441	9M16D7W
	15	QPSK	27.29	ERP	0.536	14M1G7D
	15	16QAM	26.44	ERP	0.441	13M7D7W
	20	QPSK	27.24	ERP	0.530	18M2G7D
	20	16QAM	26.46	ERP	0.443	18M2D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	26.52	EIRP	0.449	1M11G7D
	1.4	16QAM	26.07	EIRP	0.405	1M11D7W
	3	QPSK	26.45	EIRP	0.442	2M73G7D
	3	16QAM	25.94	EIRP	0.393	2M73D7W
	5	QPSK	26.54	EIRP	0.451	4M54G7D
	5	16QAM	26.08	EIRP	0.406	4M53D7W
	10	QPSK	26.74	EIRP	0.472	9M09G7D
	10	16QAM	25.97	EIRP	0.395	9M13D7W
	15	QPSK	26.63	EIRP	0.460	13M6G7D
	15	16QAM	26.01	EIRP	0.399	13M6D7W
	20	QPSK	26.66	EIRP	0.463	18M1G7D
	20	16QAM	26.06	EIRP	0.404	18M1D7W

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan (TAF code 0513)

FCC Registration Numbers are: 509634 / TW0001

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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 a 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.

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)	0.2	10	10.2
High Band (Above 1 GHz)	0.5	10	10.5

2.5. Configuration of Tested System

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

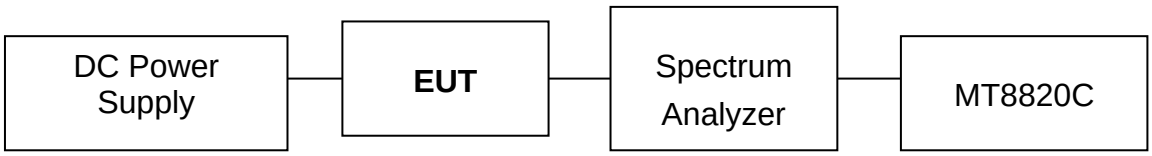
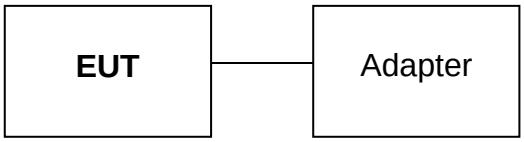


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

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

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(a)(3) §27.50(c)(10) §27.50(d)(4) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §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(c)(2),(4) §27.50(c)(5) §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) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant

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
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
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 13	H-plan	H-plan
LTE Band 14	H-plan	H-plan
LTE Band 17	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
LTE Band 30	H-plan	H-plan
LTE Bnad 38	H-plan	H-plan
LTE Band 41	H-plan	H-plan
LTE Band 66	H-plan	H-plan

WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	1312 to 1513 9262 to 9538	1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDETED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V

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	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	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	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	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 Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED 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	20MHz	QPSK	1 RB, 0 RB Offest

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	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	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	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED 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

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	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	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
CONDCUDETED 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 EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 49 RB Offest

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	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	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	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	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
CONDCU-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	10MHz	QPSK	1 RB, 49 RB Offest

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23230	23230	10MHz	QPSK	1 RB, 49 RB Offest

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23330	23330	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM	Full RB
	23330	23330	10MHz	QPSK, 16QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB, 0 RB Offest
	23330	23330	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	10MHz	QPSK	1 RB, 25 RB Offest

LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 49 RB Offest

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	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	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	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	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
CONDCUDETED 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	15MHz	QPSK	1 RB, 0 RB Offset

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	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 74 RB Offest

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	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	10MHz	QPSK	1 RB, 49 RB Offest

LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVER-AGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest

LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVER-AGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 74 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	10MHz	16QAM	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVER-AGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB,74 RB Offest

LTE Band 66 MODE

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

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.

6. MAXMUM OUTPUT POWER

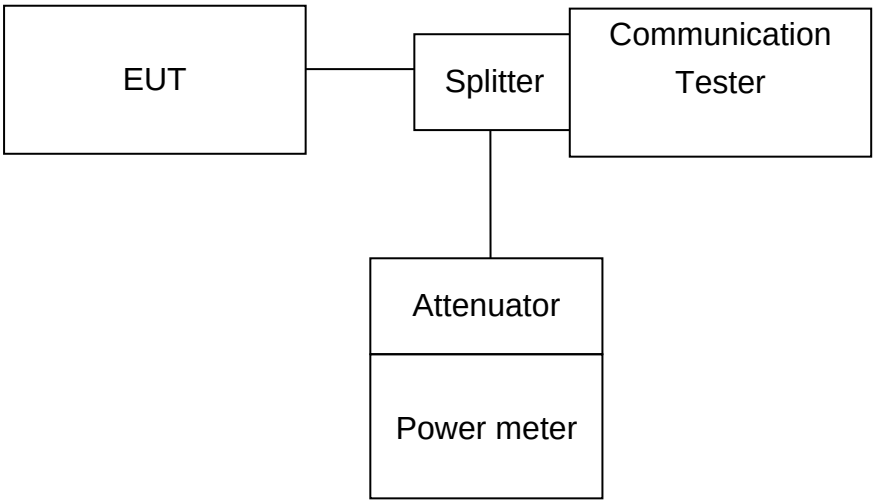
6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046
FCC 22.913(a) Mobile station is limited to 7W ERP.
FCC 24.232(b) 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 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, (WCD-MA/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 method-ology 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

ERP/EIRP = PMeas + GT-LC

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

6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.76	2.48	26.24	33	-6.76
	1880	9400	23.86	2.48	26.34	33	-6.66
	1907.6	9538	23.79	2.48	26.27	33	-6.73
HSDPA	1852.4	9262	23.71	2.48	26.19	33	-6.81
	1880	9400	23.84	2.48	26.32	33	-6.68
	1907.6	9538	23.69	2.48	26.17	33	-6.83
HSUPA	1852.4	9262	23.18	2.48	25.66	33	-7.34
	1880	9400	23.25	2.48	25.73	33	-7.27
	1907.6	9538	23.11	2.48	25.59	33	-7.41

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.9	2.08	25.98	30	-4.02
	1732.6	1413	24	2.08	26.08	30	-3.92
	1752.6	1513	23.89	2.08	25.97	30	-4.03
HSDPA	1712.4	1312	23.82	2.08	25.9	30	-4.1
	1732.6	1413	23.99	2.08	26.07	30	-3.93
	1752.6	1513	23.86	2.08	25.94	30	-4.06
HSUPA	1712.4	1312	23.34	2.08	25.42	30	-4.58
	1732.6	1413	23.44	2.08	25.52	30	-4.48
	1752.6	1513	23.29	2.08	25.37	30	-4.63

WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	24.14	-3.02	21.12	38.5	-17.38
	836.6	4183	23.98	-3.02	20.96	38.5	-17.54
	846.6	4233	23.89	-3.02	20.87	38.5	-17.63
HSDPA	826.4	4132	24.11	-3.02	21.09	38.5	-17.41
	836.6	4183	23.97	-3.02	20.95	38.5	-17.55
	846.6	4233	23.87	-3.02	20.85	38.5	-17.65
HSUPA	826.4	4132	23.5	-3.02	20.48	38.5	-18.02
	836.6	4183	23.41	-3.02	20.39	38.5	-18.11
	846.6	4233	23.2	-3.02	20.18	38.5	-18.32

HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} (*Note1, Note 2*)	CM (dB) *(Note 3)*	MPR (dB) *(Note 3)*	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA II	1	23.71	23.84	23.69	20.3dBm – 25.7dBm	Pass
	2	22.66	22.74	22.57	20.3dBm – 25.7dBm	Pass
	3	22.15	22.21	22.06	19.8dBm – 25.7dBm	Pass
	4	21.91	21.92	21.79	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	23.82	23.99	23.86	20.3dBm – 25.7dBm	Pass
	2	22.86	22.96	22.86	20.3dBm – 25.7dBm	Pass
	3	22.37	22.47	22.37	19.8dBm – 25.7dBm	Pass
	4	22.14	22.14	22.13	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA V	1	24.11	23.97	23.87	20.3dBm – 25.7dBm	Pass
	2	23.04	22.94	22.74	20.3dBm – 25.7dBm	Pass
	3	22.50	22.41	22.15	19.8dBm – 25.7dBm	Pass
	4	22.28	22.15	21.89	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA II	1	23.18	23.25	23.11	18.8dBm – 25.7dBm	Pass
	2	23.72	23.78	23.68	16.8dBm – 25.7dBm	Pass
	3	22.14	22.21	22.07	17.8dBm – 25.7dBm	Pass
	4	23.72	23.84	23.76	16.8dBm – 25.7dBm	Pass
	5	22.64	22.71	22.58	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	23.34	23.44	23.29	20.3dBm – 25.7dBm	Pass
	2	23.83	23.92	23.78	20.3dBm – 25.7dBm	Pass
	3	22.34	22.43	22.29	19.8dBm – 25.7dBm	Pass
	4	23.85	23.96	23.78	19.8dBm – 25.7dBm	Pass
	5	22.86	22.91	22.80	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	23.50	23.41	23.20	18.8dBm – 25.7dBm	Pass
	2	24.02	23.91	23.78	16.8dBm – 25.7dBm	Pass
	3	22.46	22.35	22.12	17.8dBm – 25.7dBm	Pass
	4	24.07	23.94	23.84	16.8dBm – 25.7dBm	Pass
	5	22.99	22.90	22.67	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

LTE Result:

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	24.64	27.12	33	-5.88
				1	5	24.64	27.12	33	-5.88
				3	2	24.63	27.11	33	-5.89
				6	0	23.69	26.17	33	-6.83
	18900	1880	QPSK	1	0	24.68	27.16	33	-5.84
				1	5	24.69	27.17	33	-5.83
				3	2	24.66	27.14	33	-5.86
				6	0	23.69	26.17	33	-6.83
	19193	1909.3	QPSK	1	0	24.38	26.86	33	-6.14
				1	5	24.29	26.77	33	-6.23
				3	2	24.23	26.71	33	-6.29
				6	0	23.38	25.86	33	-7.14
	18607	1850.7	16QAM	1	0	23.84	26.32	33	-6.68
				1	5	23.85	26.33	33	-6.67
				3	2	23.71	26.19	33	-6.81
				6	0	22.67	25.15	33	-7.85
	18900	1880	16QAM	1	0	23.89	26.37	33	-6.63
				1	5	23.91	26.39	33	-6.61
				3	2	23.74	26.22	33	-6.78
				6	0	22.63	25.11	33	-7.89
	19193	1909.3	16QAM	1	0	23.52	26	33	-7
				1	5	23.45	25.93	33	-7.07
				3	2	23.3	25.78	33	-7.22
				6	0	22.4	24.88	33	-8.12

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	24.59	27.07	33	-5.93
				1	14	24.62	27.1	33	-5.9
				8	4	23.68	26.16	33	-6.84
				15	0	23.69	26.17	33	-6.83
	18900	1880	QPSK	1	0	24.61	27.09	33	-5.91
				1	14	24.58	27.06	33	-5.94
				8	4	23.66	26.14	33	-6.86
				15	0	23.68	26.16	33	-6.84
	19185	1908.5	QPSK	1	0	24.37	26.85	33	-6.15
				1	14	24.17	26.65	33	-6.35
				8	4	23.46	25.94	33	-7.06
				15	0	23.48	25.96	33	-7.04
	18615	1851.5	16QAM	1	0	23.8	26.28	33	-6.72
				1	14	23.87	26.35	33	-6.65
				8	4	22.68	25.16	33	-7.84
				15	0	22.67	25.15	33	-7.85
	18900	1880	16QAM	1	0	23.83	26.31	33	-6.69
				1	14	23.89	26.37	33	-6.63
				8	4	22.62	25.1	33	-7.9
				15	0	22.61	25.09	33	-7.91
	19185	1908.5	16QAM	1	0	23.58	26.06	33	-6.94
				1	14	23.39	25.87	33	-7.13
				8	4	22.43	24.91	33	-8.09
				15	0	22.43	24.91	33	-8.09

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	24.67	27.15	33	-5.85
				1	24	24.64	27.12	33	-5.88
				12	6	23.85	26.33	33	-6.67
				25	0	23.82	26.3	33	-6.7
	18900	1880	QPSK	1	0	24.69	27.17	33	-5.83
				1	24	24.69	27.17	33	-5.83
				12	6	23.78	26.26	33	-6.74
				25	0	23.77	26.25	33	-6.75
	19175	1907.5	QPSK	1	0	24.56	27.04	33	-5.96
				1	24	24.28	26.76	33	-6.24
				12	6	23.6	26.08	33	-6.92
				25	0	23.6	26.08	33	-6.92
	18625	1852.5	16QAM	1	0	23.88	26.36	33	-6.64
				1	24	23.8	26.28	33	-6.72
				12	6	22.89	25.37	33	-7.63
				25	0	22.85	25.33	33	-7.67
	18900	1880	16QAM	1	0	23.95	26.43	33	-6.57
				1	24	23.89	26.37	33	-6.63
				12	6	22.74	25.22	33	-7.78
				25	0	22.76	25.24	33	-7.76
	19175	1907.5	16QAM	1	0	23.79	26.27	33	-6.73
				1	24	23.47	25.95	33	-7.05
				12	6	22.57	25.05	33	-7.95
				25	0	22.6	25.08	33	-7.92

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	24.77	27.25	33	-5.75
				1	24	24.66	27.14	33	-5.86
				12	6	23.67	26.15	33	-6.85
				25	0	23.67	26.15	33	-6.85
	18900	1880	QPSK	1	0	24.77	27.25	33	-5.75
				1	24	24.62	27.1	33	-5.9
				12	6	23.69	26.17	33	-6.83
				25	0	23.68	26.16	33	-6.84
	19150	1905	QPSK	1	0	24.61	27.09	33	-5.91
				1	24	24.28	26.76	33	-6.24
				12	6	23.69	26.17	33	-6.83
				25	0	23.61	26.09	33	-6.91
	18650	1855	16QAM	1	0	23.98	26.46	33	-6.54
				1	24	23.92	26.4	33	-6.6
				12	6	22.76	25.24	33	-7.76
				25	0	22.7	25.18	33	-7.82
	18900	1880	16QAM	1	0	23.87	26.35	33	-6.65
				1	24	23.84	26.32	33	-6.68
				12	6	22.69	25.17	33	-7.83
				25	0	22.66	25.14	33	-7.86
	19150	1905	16QAM	1	0	23.89	26.37	33	-6.63
				1	24	23.56	26.04	33	-6.96
				12	6	22.7	25.18	33	-7.82
				25	0	22.61	25.09	33	-7.91

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	24.72	27.2	33	-5.8
				1	74	24.77	27.25	33	-5.75
				36	19	23.59	26.07	33	-6.93
				75	0	23.61	26.09	33	-6.91
	18900	1880	QPSK	1	0	24.81	27.29	33	-5.71
				1	74	24.52	27	33	-6
				36	19	23.68	26.16	33	-6.84
				75	0	23.73	26.21	33	-6.79
	19125	1902.5	QPSK	1	0	24.45	26.93	33	-6.07
				1	74	24.3	26.78	33	-6.22
				36	19	23.59	26.07	33	-6.93
				75	0	23.65	26.13	33	-6.87
	18675	1857.5	16QAM	1	0	23.85	26.33	33	-6.67
				1	74	23.99	26.47	33	-6.53
				36	19	22.65	25.13	33	-7.87
				75	0	22.64	25.12	33	-7.88
	18900	1880	16QAM	1	0	23.75	26.23	33	-6.77
				1	74	23.85	26.33	33	-6.67
				36	19	22.67	25.15	33	-7.85
				75	0	22.67	25.15	33	-7.85
	19125	1902.5	16QAM	1	0	23.69	26.17	33	-6.83
				1	74	23.54	26.02	33	-6.98
				36	19	22.62	25.1	33	-7.9
				75	0	22.62	25.1	33	-7.9

Antenna gain (dBi) 2.48

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	24.84	27.32	33	-5.68
				1	99	24.78	27.26	33	-5.74
				50	25	23.75	26.23	33	-6.77
				100	0	23.8	26.28	33	-6.72
	18900	1880	QPSK	1	0	24.88	27.36	33	-5.64
				1	99	24.46	26.94	33	-6.06
				50	25	23.68	26.16	33	-6.84
				100	0	23.77	26.25	33	-6.75
	19100	1900	QPSK	1	0	24.47	26.95	33	-6.05
				1	99	24.4	26.88	33	-6.12
				50	25	23.59	26.07	33	-6.93
				100	0	23.68	26.16	33	-6.84
	18700	1860	16QAM	1	0	23.74	26.22	33	-6.78
				1	99	23.98	26.46	33	-6.54
				50	25	22.78	25.26	33	-7.74
				100	0	22.81	25.29	33	-7.71
	18900	1880	16QAM	1	0	23.85	26.33	33	-6.67
				1	99	23.72	26.2	33	-6.8
				50	25	22.65	25.13	33	-7.87
				100	0	22.72	25.2	33	-7.8
	19100	1900	16QAM	1	0	23.63	26.11	33	-6.89
				1	99	23.6	26.08	33	-6.92
				50	25	22.6	25.08	33	-7.92
				100	0	22.65	25.13	33	-7.87

Antenna gain (dBi) 2.39

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	24.41	26.8	30	-3.2
				1	5	24.4	26.79	30	-3.21
				3	2	24.39	26.78	30	-3.22
				6	0	23.42	25.81	30	-4.19
	20175	1732.5	QPSK	1	0	24.48	26.87	30	-3.13
				1	5	24.47	26.86	30	-3.14
				3	2	24.45	26.84	30	-3.16
				6	0	23.45	25.84	30	-4.16
	20393	1754.3	QPSK	1	0	24.51	26.9	30	-3.1
				1	5	24.57	26.96	30	-3.04
				3	2	24.54	26.93	30	-3.07
				6	0	23.57	25.96	30	-4.04
	19957	1710.7	16QAM	1	0	23.74	26.13	30	-3.87
				1	5	23.74	26.13	30	-3.87
				3	2	23.52	25.91	30	-4.09
				6	0	22.49	24.88	30	-5.12
	20175	1732.5	16QAM	1	0	23.7	26.09	30	-3.91
				1	5	23.69	26.08	30	-3.92
				3	2	23.49	25.88	30	-4.12
				6	0	22.46	24.85	30	-5.15
	20393	1754.3	16QAM	1	0	23.83	26.22	30	-3.78
				1	5	23.86	26.25	30	-3.75
				3	2	23.68	26.07	30	-3.93
				6	0	22.66	25.05	30	-4.95

Antenna gain (dBi) 2.39

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	24.37	26.76	30	-3.24
				1	14	24.37	26.76	30	-3.24
				8	4	23.42	25.81	30	-4.19
				15	0	23.42	25.81	30	-4.19
	20175	1732.5	QPSK	1	0	24.42	26.81	30	-3.19
				1	14	24.43	26.82	30	-3.18
				8	4	23.46	25.85	30	-4.15
				15	0	23.47	25.86	30	-4.14
	20385	1753.5	QPSK	1	0	24.44	26.83	30	-3.17
				1	14	24.51	26.9	30	-3.1
				8	4	23.49	25.88	30	-4.12
				15	0	23.49	25.88	30	-4.12
	19965	1711.5	16QAM	1	0	23.66	26.05	30	-3.95
				1	14	23.72	26.11	30	-3.89
				8	4	22.53	24.92	30	-5.08
				15	0	22.47	24.86	30	-5.14
	20175	1732.5	16QAM	1	0	23.6	25.99	30	-4.01
				1	14	23.65	26.04	30	-3.96
				8	4	22.47	24.86	30	-5.14
				15	0	22.45	24.84	30	-5.16
	20385	1753.5	16QAM	1	0	23.72	26.11	30	-3.89
				1	14	23.86	26.25	30	-3.75
				8	4	22.58	24.97	30	-5.03
				15	0	22.57	24.96	30	-5.04

Antenna gain (dBi) 2.39

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	24.46	26.85	30	-3.15
				1	24	24.47	26.86	30	-3.14
				12	6	23.52	25.91	30	-4.09
				25	0	23.49	25.88	30	-4.12
	20175	1732.5	QPSK	1	0	24.5	26.89	30	-3.11
				1	24	24.52	26.91	30	-3.09
				12	6	23.57	25.96	30	-4.04
				25	0	23.54	25.93	30	-4.07
	20375	1752.5	QPSK	1	0	24.55	26.94	30	-3.06
				1	24	24.61	27	30	-3
				12	6	23.6	25.99	30	-4.01
				25	0	23.57	25.96	30	-4.04
	19975	1712.5	16QAM	1	0	23.81	26.2	30	-3.8
				1	24	23.8	26.19	30	-3.81
				12	6	22.67	25.06	30	-4.94
				25	0	22.61	25	30	-5
	20175	1732.5	16QAM	1	0	23.68	26.07	30	-3.93
				1	24	23.75	26.14	30	-3.86
				12	6	22.6	24.99	30	-5.01
				25	0	22.57	24.96	30	-5.04
	20375	1752.5	16QAM	1	0	23.8	26.19	30	-3.81
				1	24	23.93	26.32	30	-3.68
				12	6	22.75	25.14	30	-4.86
				25	0	22.69	25.08	30	-4.92

Antenna gain (dBi) 2.39

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	24.52	26.91	30	-3.09
				1	24	24.47	26.86	30	-3.14
				12	6	23.42	25.81	30	-4.19
				25	0	23.43	25.82	30	-4.18
	20175	1732.5	QPSK	1	0	24.54	26.93	30	-3.07
				1	24	24.48	26.87	30	-3.13
				12	6	23.47	25.86	30	-4.14
				25	0	23.46	25.85	30	-4.15
	20375	1750	QPSK	1	0	24.65	27.04	30	-2.96
				1	24	24.63	27.02	30	-2.98
				12	6	23.51	25.9	30	-4.1
				25	0	23.51	25.9	30	-4.1
	20000	1715	16QAM	1	0	23.82	26.21	30	-3.79
				1	24	23.77	26.16	30	-3.84
				12	6	22.52	24.91	30	-5.09
				25	0	22.45	24.84	30	-5.16
	20175	1732.5	16QAM	1	0	23.77	26.16	30	-3.84
				1	24	23.73	26.12	30	-3.88
				12	6	22.52	24.91	30	-5.09
				25	0	22.49	24.88	30	-5.12
	20375	1750	16QAM	1	0	23.94	26.33	30	-3.67
				1	24	24	26.39	30	-3.61
				12	6	22.64	25.03	30	-4.97
				25	0	22.58	24.97	30	-5.03

Antenna gain (dBi) 2.39

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	24.55	26.94	30	-3.06
				1	74	24.52	26.91	30	-3.09
				36	19	23.38	25.77	30	-4.23
				75	0	23.39	25.78	30	-4.22
	20175	1732.5	QPSK	1	0	24.57	26.96	30	-3.04
				1	74	24.46	26.85	30	-3.15
				36	19	23.46	25.85	30	-4.15
				75	0	23.49	25.88	30	-4.12
	20325	1747.5	QPSK	1	0	24.59	26.98	30	-3.02
				1	74	24.63	27.02	30	-2.98
				36	19	23.57	25.96	30	-4.04
				75	0	23.58	25.97	30	-4.03
	20025	1717.5	16QAM	1	0	23.82	26.21	30	-3.79
				1	74	23.83	26.22	30	-3.78
				36	19	22.47	24.86	30	-5.14
				75	0	22.43	24.82	30	-5.18
	20175	1732.5	16QAM	1	0	23.8	26.19	30	-3.81
				1	74	23.73	26.12	30	-3.88
				36	19	22.51	24.9	30	-5.1
				75	0	22.49	24.88	30	-5.12
	20325	1747.5	16QAM	1	0	23.91	26.3	30	-3.7
				1	74	23.93	26.32	30	-3.68
				36	19	22.66	25.05	30	-4.95
				75	0	22.62	25.01	30	-4.99

Antenna gain (dBi) 2.39

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	24.62	27.01	30	-2.99
				1	99	24.53	26.92	30	-3.08
				50	25	23.4	25.79	30	-4.21
				100	0	23.44	25.83	30	-4.17
	20175	1732.5	QPSK	1	0	24.63	27.02	30	-2.98
				1	99	24.48	26.87	30	-3.13
				50	25	23.48	25.87	30	-4.13
				100	0	23.54	25.93	30	-4.07
	20300	1745	QPSK	1	0	24.61	27	30	-3
				1	99	24.55	26.94	30	-3.06
				50	25	23.56	25.95	30	-4.05
				100	0	23.6	25.99	30	-4.01
	20050	1720	16QAM	1	0	23.96	26.35	30	-3.65
				1	99	23.71	26.1	30	-3.9
				50	25	22.42	24.81	30	-5.19
				100	0	22.45	24.84	30	-5.16
	20175	1732.5	16QAM	1	0	23.82	26.21	30	-3.79
				1	99	23.79	26.18	30	-3.82
				50	25	22.5	24.89	30	-5.11
				100	0	22.54	24.93	30	-5.07
	20300	1745	16QAM	1	0	23.86	26.25	30	-3.75
				1	99	23.88	26.27	30	-3.73
				50	25	22.6	24.99	30	-5.01
				100	0	22.61	25	30	-5

Antenna gain (dBi) -3.02

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	24.44	21.42	38.45	-17.03
				1	5	24.46	21.44	38.45	-17.01
				3	2	24.43	21.41	38.45	-17.04
				6	0	23.46	20.44	38.45	-18.01
	20525	836.5	QPSK	1	0	24.52	21.5	38.45	-16.95
				1	5	24.49	21.47	38.45	-16.98
				3	2	24.46	21.44	38.45	-17.01
				6	0	23.51	20.49	38.45	-17.96
	20643	848.3	QPSK	1	0	24.37	21.35	38.45	-17.1
				1	5	24.27	21.25	38.45	-17.2
				3	2	24.26	21.24	38.45	-17.21
				6	0	23.36	20.34	38.45	-18.11
	20407	824.7	16QAM	1	0	23.76	20.74	38.45	-17.71
				1	5	23.71	20.69	38.45	-17.76
				3	2	23.52	20.5	38.45	-17.95
				6	0	22.48	19.46	38.45	-18.99
	20525	836.5	16QAM	1	0	23.81	20.79	38.45	-17.66
				1	5	23.78	20.76	38.45	-17.69
				3	2	23.58	20.56	38.45	-17.89
				6	0	22.54	19.52	38.45	-18.93
	20643	848.3	16QAM	1	0	23.68	20.66	38.45	-17.79
				1	5	23.52	20.5	38.45	-17.95
				3	2	23.35	20.33	38.45	-18.12
				6	0	22.34	19.32	38.45	-19.13

Antenna gain (dBi) -3.02

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	24.37	21.35	38.45	-17.1
				1	14	24.4	21.38	38.45	-17.07
				8	4	23.48	20.46	38.45	-17.99
				15	0	23.48	20.46	38.45	-17.99
	20525	836.5	QPSK	1	0	24.48	21.46	38.45	-16.99
				1	14	24.34	21.32	38.45	-17.13
				8	4	23.51	20.49	38.45	-17.96
				15	0	23.51	20.49	38.45	-17.96
	20635	847.5	QPSK	1	0	24.33	21.31	38.45	-17.14
				1	14	24.19	21.17	38.45	-17.28
				8	4	23.38	20.36	38.45	-18.09
				15	0	23.4	20.38	38.45	-18.07
	20415	825.5	16QAM	1	0	23.73	20.71	38.45	-17.74
				1	14	23.71	20.69	38.45	-17.76
				8	4	22.49	19.47	38.45	-18.98
				15	0	22.43	19.41	38.45	-19.04
	20525	836.5	16QAM	1	0	23.83	20.81	38.45	-17.64
				1	14	23.67	20.65	38.45	-17.8
				8	4	22.56	19.54	38.45	-18.91
				15	0	22.52	19.5	38.45	-18.95
	20635	847.5	16QAM	1	0	23.59	20.57	38.45	-17.88
				1	14	23.46	20.44	38.45	-18.01
				8	4	22.42	19.4	38.45	-19.05
				15	0	22.38	19.36	38.45	-19.09

Antenna gain (dBi) -3.02

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	24.47	21.45	38.45	-17
				1	24	24.45	21.43	38.45	-17.02
				12	6	23.57	20.55	38.45	-17.9
				25	0	23.56	20.54	38.45	-17.91
	20525	836.5	QPSK	1	0	24.56	21.54	38.45	-16.91
				1	24	24.49	21.47	38.45	-16.98
				12	6	23.59	20.57	38.45	-17.88
				25	0	23.59	20.57	38.45	-17.88
	20625	846.5	QPSK	1	0	24.37	21.35	38.45	-17.1
				1	24	24.31	21.29	38.45	-17.16
				12	6	23.47	20.45	38.45	-18
				25	0	23.46	20.44	38.45	-18.01
	20425	826.5	16QAM	1	0	23.74	20.72	38.45	-17.73
				1	24	23.77	20.75	38.45	-17.7
				12	6	22.63	19.61	38.45	-18.84
				25	0	22.6	19.58	38.45	-18.87
	20525	836.5	16QAM	1	0	23.88	20.86	38.45	-17.59
				1	24	23.74	20.72	38.45	-17.73
				12	6	22.68	19.66	38.45	-18.79
				25	0	22.67	19.65	38.45	-18.8
	20625	846.5	16QAM	1	0	23.58	20.56	38.45	-17.89
				1	24	23.55	20.53	38.45	-17.92
				12	6	22.55	19.53	38.45	-18.92
				25	0	22.5	19.48	38.45	-18.97

Antenna gain (dBi) -3.02

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	24.57	21.55	38.45	-16.9
				1	49	24.6	21.58	38.45	-16.87
				25	12	23.5	20.48	38.45	-17.97
				50	0	23.51	20.49	38.45	-17.96
	20525	836.5	QPSK	1	0	24.51	21.49	38.45	-16.96
				1	49	24.62	21.6	38.45	-16.85
				25	12	23.58	20.56	38.45	-17.89
				50	0	23.59	20.57	38.45	-17.88
	20600	844	QPSK	1	0	24.56	21.54	38.45	-16.91
				1	49	24.38	21.36	38.45	-17.09
				25	12	23.45	20.43	38.45	-18.02
				50	0	23.42	20.4	38.45	-18.05
	20450	829	16QAM	1	0	23.77	20.75	38.45	-17.7
				1	49	23.88	20.86	38.45	-17.59
				25	12	22.59	19.57	38.45	-18.88
				50	0	22.55	19.53	38.45	-18.92
	20525	836.5	16QAM	1	0	23.86	20.84	38.45	-17.61
				1	49	23.84	20.82	38.45	-17.63
				25	12	22.66	19.64	38.45	-18.81
				50	0	22.61	19.59	38.45	-18.86
	20600	844	16QAM	1	0	23.81	20.79	38.45	-17.66
				1	49	23.6	20.58	38.45	-17.87
				25	12	22.47	19.45	38.45	-19
				50	0	22.43	19.41	38.45	-19.04

Antenna gain (dBi) -1.89

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	23.68	21.79	34.77	-12.98
				1	5	23.85	21.96	34.77	-12.81
				3	2	23.81	21.92	34.77	-12.85
				6	0	22.79	20.9	34.77	-13.87
	23095	707.5	QPSK	1	0	23.98	22.09	34.77	-12.68
				1	5	23.89	22	34.77	-12.77
				3	2	23.95	22.06	34.77	-12.71
				6	0	22.93	21.04	34.77	-13.73
	23173	715.5	QPSK	1	0	24.1	22.21	34.77	-12.56
				1	5	24.11	22.22	34.77	-12.55
				3	2	23.99	22.1	34.77	-12.67
				6	0	23.05	21.16	34.77	-13.61
	23017	699.7	16QAM	1	0	23.1	21.21	34.77	-13.56
				1	5	23.13	21.24	34.77	-13.53
				3	2	22.85	20.96	34.77	-13.81
				6	0	21.88	19.99	34.77	-14.78
	23095	707.5	16QAM	1	0	23.2	21.31	34.77	-13.46
				1	5	23.28	21.39	34.77	-13.38
				3	2	22.86	20.97	34.77	-13.8
				6	0	22.03	20.14	34.77	-14.63
	23173	715.5	16QAM	1	0	23.45	21.56	34.77	-13.21
				1	5	23.27	21.38	34.77	-13.39
				3	2	22.89	21	34.77	-13.77
				6	0	22.11	20.22	34.77	-14.55

Antenna gain (dBi) -1.89

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	23.74	21.85	34.77	-12.92
				1	14	23.88	21.99	34.77	-12.78
				8	4	22.8	20.91	34.77	-13.86
				15	0	22.83	20.94	34.77	-13.83
	23095	707.5	QPSK	1	0	23.88	21.99	34.77	-12.78
				1	14	23.98	22.09	34.77	-12.68
				8	4	23	21.11	34.77	-13.66
				15	0	23.01	21.12	34.77	-13.65
	23165	714.5	QPSK	1	0	24.07	22.18	34.77	-12.59
				1	14	23.96	22.07	34.77	-12.7
				8	4	23.07	21.18	34.77	-13.59
				15	0	23.11	21.22	34.77	-13.55
	23025	700.5	16QAM	1	0	22.64	20.75	34.77	-14.02
				1	14	23.18	21.29	34.77	-13.48
				8	4	21.83	19.94	34.77	-14.83
				15	0	21.84	19.95	34.77	-14.82
	23095	707.5	16QAM	1	0	23.11	21.22	34.77	-13.55
				1	14	23.15	21.26	34.77	-13.51
				8	4	21.93	20.04	34.77	-14.73
				15	0	21.91	20.02	34.77	-14.75
	23165	714.5	16QAM	1	0	23.34	21.45	34.77	-13.32
				1	14	23.58	21.69	34.77	-13.08
				8	4	21.97	20.08	34.77	-14.69
				15	0	21.99	20.1	34.77	-14.67

Antenna gain (dBi) -1.89

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	23.8	21.91	34.77	-12.86
				1	24	23.88	21.99	34.77	-12.78
				12	6	22.99	21.1	34.77	-13.67
				25	0	22.99	21.1	34.77	-13.67
	23095	707.5	QPSK	1	0	24.13	22.24	34.77	-12.53
				1	24	24.03	22.14	34.77	-12.63
				12	6	23.09	21.2	34.77	-13.57
				25	0	23.09	21.2	34.77	-13.57
	23155	713.5	QPSK	1	0	24.09	22.2	34.77	-12.57
				1	24	24.03	22.14	34.77	-12.63
				12	6	23.13	21.24	34.77	-13.53
				25	0	23.16	21.27	34.77	-13.5
	23035	701.5	16QAM	1	0	22.85	20.96	34.77	-13.81
				1	24	23.16	21.27	34.77	-13.5
				12	6	22.06	20.17	34.77	-14.6
				25	0	22.07	20.18	34.77	-14.59
	23095	707.5	16QAM	1	0	23.28	21.39	34.77	-13.38
				1	24	23.26	21.37	34.77	-13.4
				12	6	22.22	20.33	34.77	-14.44
				25	0	22.14	20.25	34.77	-14.52
	23155	713.5	16QAM	1	0	23.47	21.58	34.77	-13.19
				1	24	23.53	21.64	34.77	-13.13
				12	6	22.2	20.31	34.77	-14.46
				25	0	22.27	20.38	34.77	-14.39

Antenna gain (dBi) -1.89

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	23.85	21.96	34.77	-12.81
				1	49	24.24	22.35	34.77	-12.42
				25	12	22.98	21.09	34.77	-13.68
				50	0	23	21.11	34.77	-13.66
	23095	707.5	QPSK	1	0	23.86	21.97	34.77	-12.8
				1	49	24.26	22.37	34.77	-12.4
				25	12	23.11	21.22	34.77	-13.55
				50	0	23.08	21.19	34.77	-13.58
	23130	711	QPSK	1	0	24.21	22.32	34.77	-12.45
				1	49	24.29	22.4	34.77	-12.37
				25	12	23.03	21.14	34.77	-13.63
				50	0	23.17	21.28	34.77	-13.49
	23060	704	16QAM	1	0	22.75	20.86	34.77	-13.91
				1	49	23.88	21.99	34.77	-12.78
				25	12	21.97	20.08	34.77	-14.69
				50	0	22.12	20.23	34.77	-14.54
	23095	707.5	16QAM	1	0	23.42	21.53	34.77	-13.24
				1	49	23.27	21.38	34.77	-13.39
				25	12	22.25	20.36	34.77	-14.41
				50	0	22.1	20.21	34.77	-14.56
	23130	711	16QAM	1	0	22.8	20.91	34.77	-13.86
				1	49	23.71	21.82	34.77	-12.95
				25	12	22.21	20.32	34.77	-14.45
				50	0	22.26	20.37	34.77	-14.4

Antenna gain (dBi) -1.4

LTE Band 13_Uplink frequency band : 777 to 787 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	24.27	22.87	34.77	-11.9
				1	24	24.47	23.07	34.77	-11.7
				12	6	23.67	22.27	34.77	-12.5
				25	0	23.51	22.11	34.77	-12.66
	23230	782	QPSK	1	0	24.58	23.18	34.77	-11.59
				1	24	24.76	23.36	34.77	-11.41
				12	6	23.45	22.05	34.77	-12.72
				25	0	23.55	22.15	34.77	-12.62
	23255	784.5	QPSK	1	0	24.57	23.17	34.77	-11.6
				1	24	24.85	23.45	34.77	-11.32
				12	6	23.78	22.38	34.77	-12.39
				25	0	23.78	22.38	34.77	-12.39
	23205	779.5	16QAM	1	0	23.75	22.35	34.77	-12.42
				1	24	23.96	22.56	34.77	-12.21
				12	6	22.77	21.37	34.77	-13.4
				25	0	22.59	21.19	34.77	-13.58
	23230	782	16QAM	1	0	23.81	22.41	34.77	-12.36
				1	24	23.84	22.44	34.77	-12.33
				12	6	22.56	21.16	34.77	-13.61
				25	0	22.67	21.27	34.77	-13.5
	23255	784.5	16QAM	1	0	23.76	22.36	34.77	-12.41
				1	24	23.84	22.44	34.77	-12.33
				12	6	22.67	21.27	34.77	-13.5
				25	0	22.77	21.37	34.77	-13.4

Antenna gain (dBi) -1.4

LTE Band 13_Uplink frequency band : 777 to 787 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	24.52	23.12	34.77	-11.65
				1	49	24.95	23.55	34.77	-11.22
				25	12	23.63	22.23	34.77	-12.54
				50	0	23.81	22.41	34.77	-12.36
	23230	782	16QAM	1	0	23.56	22.16	34.77	-12.61
				1	49	23.89	22.49	34.77	-12.28
				25	12	22.72	21.32	34.77	-13.45
				50	0	22.89	21.49	34.77	-13.28

Antenna gain (dBi) -1.7

LTE Band 14_Uplink frequency band : 788 to 798 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	24.51	22.81	34.77	-11.96
				1	24	24.54	22.84	34.77	-11.93
				12	6	23.54	21.84	34.77	-12.93
				25	0	23.54	21.84	34.77	-12.93
	23330	793	QPSK	1	0	24.56	22.86	34.77	-11.91
				1	24	24.61	22.91	34.77	-11.86
				12	6	23.59	21.89	34.77	-12.88
				25	0	23.66	21.96	34.77	-12.81
	23355	795.5	QPSK	1	0	24.56	22.86	34.77	-11.91
				1	24	24.49	22.79	34.77	-11.98
				12	6	23.63	21.93	34.77	-12.84
				25	0	23.62	21.92	34.77	-12.85
	23305	790.5	16QAM	1	0	23.64	21.94	34.77	-12.83
				1	24	23.66	21.96	34.77	-12.81
				12	6	22.49	20.79	34.77	-13.98
				25	0	22.51	20.81	34.77	-13.96
	23330	793	16QAM	1	0	23.64	21.94	34.77	-12.83
				1	24	23.73	22.03	34.77	-12.74
				12	6	22.47	20.77	34.77	-14
				25	0	22.57	20.87	34.77	-13.9
	23355	795.5	16QAM	1	0	23.63	21.93	34.77	-12.84
				1	24	23.62	21.92	34.77	-12.85
				12	6	22.5	20.8	34.77	-13.97
				25	0	22.51	20.81	34.77	-13.96

Antenna gain (dBi) -1.7

LTE Band 14_Uplink frequency band : 788 to 798 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	24.62	22.92	34.77	-11.85
				1	49	24.63	22.93	34.77	-11.84
				25	12	23.73	22.03	34.77	-12.74
				50	0	23.8	22.1	34.77	-12.67
	23330	793	16QAM	1	0	23.76	22.06	34.77	-12.71
				1	49	23.72	22.02	34.77	-12.75
				25	12	22.72	21.02	34.77	-13.75
				50	0	22.77	21.07	34.77	-13.7

Antenna gain (dBi) -1.89

LTE Band 17_Uplink frequency band : 704 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	23755	706.5	QPSK	1	0	23.64	21.75	34.77	-13.02
				1	24	23.83	21.94	34.77	-12.83
				12	6	22.72	20.83	34.77	-13.94
				25	0	22.75	20.86	34.77	-13.91
	23790	710	QPSK	1	0	23.63	21.74	34.77	-13.03
				1	24	23.79	21.9	34.77	-12.87
				12	6	22.51	20.62	34.77	-14.15
				25	0	22.6	20.71	34.77	-14.06
	23825	713.5	QPSK	1	0	23.24	21.35	34.77	-13.42
				1	24	23.74	21.85	34.77	-12.92
				12	6	22.72	20.83	34.77	-13.94
				25	0	22.71	20.82	34.77	-13.95
	23755	706.5	16QAM	1	0	22.69	20.8	34.77	-13.97
				1	24	23.01	21.12	34.77	-13.65
				12	6	21.76	19.87	34.77	-14.9
				25	0	21.55	19.66	34.77	-15.11
	23790	710	16QAM	1	0	23.16	21.27	34.77	-13.5
				1	24	22.68	20.79	34.77	-13.98
				12	6	21.61	19.72	34.77	-15.05
				25	0	21.29	19.4	34.77	-15.37
	23825	713.5	16QAM	1	0	23.06	21.17	34.77	-13.6
				1	24	22.95	21.06	34.77	-13.71
				12	6	21.74	19.85	34.77	-14.92
				25	0	21.79	19.9	34.77	-14.87

Antenna gain (dBi) -1.89

LTE Band 17_Uplink frequency band : 704 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	23780	709	QPSK	1	0	23.68	21.79	34.77	-12.98
				1	49	23.87	21.98	34.77	-12.79
				25	12	22.72	20.83	34.77	-13.94
				50	0	22.6	20.71	34.77	-14.06
	23790	710	QPSK	1	0	23.61	21.72	34.77	-13.05
				1	49	23.85	21.96	34.77	-12.81
				25	12	22.54	20.65	34.77	-14.12
				50	0	22.65	20.76	34.77	-14.01
	23800	711	QPSK	1	0	23.65	21.76	34.77	-13.01
				1	49	23.89	22	34.77	-12.77
				25	12	22.64	20.75	34.77	-14.02
				50	0	22.68	20.79	34.77	-13.98
	23780	709	16QAM	1	0	22.81	20.92	34.77	-13.85
				1	49	23.03	21.14	34.77	-13.63
				25	12	21.69	19.8	34.77	-14.97
				50	0	21.59	19.7	34.77	-15.07
	23790	710	16QAM	1	0	22.93	21.04	34.77	-13.73
				1	49	22.61	20.72	34.77	-14.05
				25	12	21.68	19.79	34.77	-14.98
				50	0	21.4	19.51	34.77	-15.26
	23800	711	16QAM	1	0	23.24	21.35	34.77	-13.42
				1	49	23.08	21.19	34.77	-13.58
				25	12	21.75	19.86	34.77	-14.91
				50	0	21.63	19.74	34.77	-15.03

Antenna gain (dBi)	2.48

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	24.6	27.08	33	-5.92
				1	5	24.69	27.17	33	-5.83
				3	2	24.5	26.98	33	-6.02
				6	0	23.55	26.03	33	-6.97
	26365	1882.5	QPSK	1	0	24.48	26.96	33	-6.04
				1	5	24.56	27.04	33	-5.96
				3	2	24.5	26.98	33	-6.02
				6	0	23.49	25.97	33	-7.03
	26683	1914.3	QPSK	1	0	24.33	26.81	33	-6.19
				1	5	24.22	26.7	33	-6.3
				3	2	24.19	26.67	33	-6.33
				6	0	23.34	25.82	33	-7.18
	26047	1850.7	16QAM	1	0	23.95	26.43	33	-6.57
				1	5	23.25	25.73	33	-7.27
				3	2	23.59	26.07	33	-6.93
				6	0	22.77	25.25	33	-7.75
	26365	1882.5	16QAM	1	0	23.7	26.18	33	-6.82
				1	5	23.49	25.97	33	-7.03
				3	2	23.51	25.99	33	-7.01
				6	0	22.64	25.12	33	-7.88
	26683	1914.3	16QAM	1	0	23.45	25.93	33	-7.07
				1	5	23.5	25.98	33	-7.02
				3	2	23.23	25.71	33	-7.29
				6	0	22.41	24.89	33	-8.11

Antenna gain (dBi)	2.48								

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	24.51	26.99	33	-6.01
				1	14	24.74	27.22	33	-5.78
				8	4	23.63	26.11	33	-6.89
				15	0	23.67	26.15	33	-6.85
	26365	1882.5	QPSK	1	0	24.56	27.04	33	-5.96
				1	14	24.53	27.01	33	-5.99
				8	4	23.48	25.96	33	-7.04
				15	0	23.52	26	33	-7
	26675	1913.5	QPSK	1	0	24.35	26.83	33	-6.17
				1	14	24.36	26.84	33	-6.16
				8	4	23.56	26.04	33	-6.96
				15	0	23.53	26.01	33	-6.99
	26055	1851.5	16QAM	1	0	24	26.48	33	-6.52
				1	14	23.91	26.39	33	-6.61
				8	4	22.67	25.15	33	-7.85
				15	0	22.8	25.28	33	-7.72
	26365	1882.5	16QAM	1	0	23.57	26.05	33	-6.95
				1	14	23.74	26.22	33	-6.78
				8	4	22.48	24.96	33	-8.04
				15	0	22.52	25	33	-8
	26675	1913.5	16QAM	1	0	23.67	26.15	33	-6.85
				1	14	22.81	25.29	33	-7.71
				8	4	22.34	24.82	33	-8.18
				15	0	22.52	25	33	-8

Antenna gain (dBi)	2.48								

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	24.63	27.11	33	-5.89
				1	24	24.57	27.05	33	-5.95
				12	6	23.86	26.34	33	-6.66
				25	0	23.86	26.34	33	-6.66
	26365	1882.5	QPSK	1	0	24.56	27.04	33	-5.96
				1	24	24.54	27.02	33	-5.98
				12	6	23.67	26.15	33	-6.85
				25	0	23.62	26.1	33	-6.9
	26665	1912.5	QPSK	1	0	24.35	26.83	33	-6.17
				1	24	24.31	26.79	33	-6.21
				12	6	23.65	26.13	33	-6.87
				25	0	23.63	26.11	33	-6.89
	26065	1852.5	16QAM	1	0	23.66	26.14	33	-6.86
				1	24	23.53	26.01	33	-6.99
				12	6	22.91	25.39	33	-7.61
				25	0	22.97	25.45	33	-7.55
	26365	1882.5	16QAM	1	0	23.77	26.25	33	-6.75
				1	24	23.98	26.46	33	-6.54
				12	6	22.7	25.18	33	-7.82
				25	0	22.74	25.22	33	-7.78
	26665	1912.5	16QAM	1	0	23.39	25.87	33	-7.13
				1	24	23.4	25.88	33	-7.12
				12	6	22.57	25.05	33	-7.95
				25	0	22.56	25.04	33	-7.96

Antenna gain (dBi)	2.48								
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	24.54	27.02	33	-5.98
				1	49	24.36	26.84	33	-6.16
				25	12	23.95	26.43	33	-6.57
				50	0	23.97	26.45	33	-6.55
	26365	1882.5	QPSK	1	0	24.45	26.93	33	-6.07
				1	49	24.31	26.79	33	-6.21
				25	12	23.81	26.29	33	-6.71
				50	0	23.75	26.23	33	-6.77
	26640	1910	QPSK	1	0	24.45	26.93	33	-6.07
				1	49	24.29	26.77	33	-6.23
				25	12	23.61	26.09	33	-6.91
				50	0	23.64	26.12	33	-6.88
	26090	1855	16QAM	1	0	23.96	26.44	33	-6.56
				1	49	23.83	26.31	33	-6.69
				25	12	22.96	25.44	33	-7.56
				50	0	22.91	25.39	33	-7.61
	26365	1882.5	16QAM	1	0	23.85	26.33	33	-6.67
				1	49	23.55	26.03	33	-6.97
				25	12	22.89	25.37	33	-7.63
				50	0	22.87	25.35	33	-7.65
	26640	1910	16QAM	1	0	23.55	26.03	33	-6.97
				1	49	23.12	25.6	33	-7.4
				25	12	22.76	25.24	33	-7.76
				50	0	22.72	25.2	33	-7.8

Antenna gain (dBi)	2.48								

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	24.4	26.88	33	-6.12
				1	74	24.48	26.96	33	-6.04
				36	19	23.9	26.38	33	-6.62
				75	0	23.9	26.38	33	-6.62
	26365	1882.5	QPSK	1	0	24.81	27.29	33	-5.71
				1	74	24.42	26.9	33	-6.1
				36	19	23.78	26.26	33	-6.74
				75	0	23.72	26.2	33	-6.8
	26615	1907.5	QPSK	1	0	24.65	27.13	33	-5.87
				1	74	24.25	26.73	33	-6.27
				36	19	23.63	26.11	33	-6.89
				75	0	23.82	26.3	33	-6.7
	26115	1857.5	16QAM	1	0	23.96	26.44	33	-6.56
				1	74	23.44	25.92	33	-7.08
				36	19	22.97	25.45	33	-7.55
				75	0	22.93	25.41	33	-7.59
	26365	1882.5	16QAM	1	0	23.95	26.43	33	-6.57
				1	74	23.49	25.97	33	-7.03
				36	19	22.94	25.42	33	-7.58
				75	0	22.91	25.39	33	-7.61
	26615	1907.5	16QAM	1	0	23.8	26.28	33	-6.72
				1	74	23.55	26.03	33	-6.97
				36	19	22.91	25.39	33	-7.61
				75	0	22.76	25.24	33	-7.76

Antenna gain (dBi)	2.48								
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	24.5	26.98	33	-6.02
				1	99	24.66	27.14	33	-5.86
				50	25	23.87	26.35	33	-6.65
				100	0	23.84	26.32	33	-6.68
	26365	1882.5	QPSK	1	0	24.76	27.24	33	-5.76
				1	99	24.48	26.96	33	-6.04
				50	25	23.76	26.24	33	-6.76
				100	0	23.74	26.22	33	-6.78
	26590	1905	QPSK	1	0	24.62	27.1	33	-5.9
				1	99	24.2	26.68	33	-6.32
				50	25	23.68	26.16	33	-6.84
				100	0	23.81	26.29	33	-6.71
	26140	1860	16QAM	1	0	23.95	26.43	33	-6.57
				1	99	23.98	26.46	33	-6.54
				50	25	22.98	25.46	33	-7.54
				100	0	22.96	25.44	33	-7.56
	26365	1882.5	16QAM	1	0	23.59	26.07	33	-6.93
				1	99	23.69	26.17	33	-6.83
				50	25	22.91	25.39	33	-7.61
				100	0	22.85	25.33	33	-7.67
	26590	1905	16QAM	1	0	23.91	26.39	33	-6.61
				1	99	23.47	25.95	33	-7.05
				50	25	22.78	25.26	33	-7.74
				100	0	22.89	25.37	33	-7.63

Antenna gain (dBi) -3.02

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	24.51	21.49	38.45	-16.96
				1	5	24.56	21.54	38.45	-16.91
				3	2	24.5	21.48	38.45	-16.97
				6	0	23.48	20.46	38.45	-17.99
	26915	836.5	QPSK	1	0	24.47	21.45	38.45	-17
				1	5	24.5	21.48	38.45	-16.97
				3	2	24.55	21.53	38.45	-16.92
				6	0	23.57	20.55	38.45	-17.9
	27033	848.3	QPSK	1	0	24.54	21.52	38.45	-16.93
				1	5	24.23	21.21	38.45	-17.24
				3	2	24.39	21.37	38.45	-17.08
				6	0	23.5	20.48	38.45	-17.97
	26797	824.7	16QAM	1	0	23.53	20.51	38.45	-17.94
				1	5	24.01	20.99	38.45	-17.46
				3	2	23.56	20.54	38.45	-17.91
				6	0	22.6	19.58	38.45	-18.87
	26915	836.5	16QAM	1	0	23.87	20.85	38.45	-17.6
				1	5	23.96	20.94	38.45	-17.51
				3	2	23.32	20.3	38.45	-18.15
				6	0	22.71	19.69	38.45	-18.76
	27033	848.3	16QAM	1	0	23.89	20.87	38.45	-17.58
				1	5	23.58	20.56	38.45	-17.89
				3	2	23.57	20.55	38.45	-17.9
				6	0	22.41	19.39	38.45	-19.06

Antenna gain (dBi) -3.02

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	26805	825.5	QPSK	1	0	24.4	21.38	38.45	-17.07
				1	14	24.38	21.36	38.45	-17.09
				8	4	23.59	20.57	38.45	-17.88
				15	0	23.6	20.58	38.45	-17.87
	26915	836.5	QPSK	1	0	24.51	21.49	38.45	-16.96
				1	14	24.53	21.51	38.45	-16.94
				8	4	23.55	20.53	38.45	-17.92
				15	0	23.59	20.57	38.45	-17.88
	27025	847.5	QPSK	1	0	24.49	21.47	38.45	-16.98
				1	14	24.32	21.3	38.45	-17.15
				8	4	23.49	20.47	38.45	-17.98
				15	0	23.53	20.51	38.45	-17.94
	26805	825.5	16QAM	1	0	23.78	20.76	38.45	-17.69
				1	14	23.55	20.53	38.45	-17.92
				8	4	22.63	19.61	38.45	-18.84
				15	0	22.61	19.59	38.45	-18.86
	26915	836.5	16QAM	1	0	23.44	20.42	38.45	-18.03
				1	14	23.85	20.83	38.45	-17.62
				8	4	22.68	19.66	38.45	-18.79
				15	0	22.72	19.7	38.45	-18.75
	27025	847.5	16QAM	1	0	23.96	20.94	38.45	-17.51
				1	14	23.63	20.61	38.45	-17.84
				8	4	22.48	19.46	38.45	-18.99
				15	0	22.5	19.48	38.45	-18.97

Antenna gain (dBi) -3.02

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	24.44	21.42	38.45	-17.03
				1	24	24.51	21.49	38.45	-16.96
				12	6	23.66	20.64	38.45	-17.81
				25	0	23.67	20.65	38.45	-17.8
	26915	836.5	QPSK	1	0	24.44	21.42	38.45	-17.03
				1	24	24.63	21.61	38.45	-16.84
				12	6	23.41	20.39	38.45	-18.06
				25	0	23.63	20.61	38.45	-17.84
	27015	846.5	QPSK	1	0	24.52	21.5	38.45	-16.95
				1	24	24.33	21.31	38.45	-17.14
				12	6	23.62	20.6	38.45	-17.85
				25	0	23.61	20.59	38.45	-17.86
	26815	826.5	16QAM	1	0	22.99	19.97	38.45	-18.48
				1	24	23.69	20.67	38.45	-17.78
				12	6	22.68	19.66	38.45	-18.79
				25	0	22.64	19.62	38.45	-18.83
	26915	836.5	16QAM	1	0	23.56	20.54	38.45	-17.91
				1	24	23.82	20.8	38.45	-17.65
				12	6	22.76	19.74	38.45	-18.71
				25	0	22.7	19.68	38.45	-18.77
	27015	846.5	16QAM	1	0	23.5	20.48	38.45	-17.97
				1	24	23.77	20.75	38.45	-17.7
				12	6	22.56	19.54	38.45	-18.91
				25	0	22.59	19.57	38.45	-18.88

Antenna gain (dBi) -3.02

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	24.46	21.44	38.45	-17.01
				1	49	24.71	21.69	38.45	-16.76
				25	12	23.59	20.57	38.45	-17.88
				50	0	23.62	20.6	38.45	-17.85
	26915	836.5	QPSK	1	0	24.64	21.62	38.45	-16.83
				1	49	24.53	21.51	38.45	-16.94
				25	12	23.56	20.54	38.45	-17.91
				50	0	23.6	20.58	38.45	-17.87
	26990	844	QPSK	1	0	24.54	21.52	38.45	-16.93
				1	49	24.51	21.49	38.45	-16.96
				25	12	23.53	20.51	38.45	-17.94
				50	0	23.59	20.57	38.45	-17.88
	26840	829	16QAM	1	0	24.17	21.15	38.45	-17.3
				1	49	23.92	20.9	38.45	-17.55
				25	12	22.64	19.62	38.45	-18.83
				50	0	22.65	19.63	38.45	-18.82
	26915	836.5	16QAM	1	0	24.03	21.01	38.45	-17.44
				1	49	24.14	21.12	38.45	-17.33
				25	12	22.76	19.74	38.45	-18.71
				50	0	22.64	19.62	38.45	-18.83
	26990	844	16QAM	1	0	23.96	20.94	38.45	-17.51
				1	49	23.78	20.76	38.45	-17.69
				25	12	22.54	19.52	38.45	-18.93
				50	0	22.49	19.47	38.45	-18.98

Antenna gain (dBi) -3.02

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	24.83	21.81	38.45	-16.64
				1	74	24.83	21.81	38.45	-16.64
				36	19	23.69	20.67	38.45	-17.78
				75	0	23.58	20.56	38.45	-17.89
	26915	836.5	QPSK	1	0	24.41	21.39	38.45	-17.06
				1	74	24.52	21.5	38.45	-16.95
				36	19	23.52	20.5	38.45	-17.95
				75	0	23.59	20.57	38.45	-17.88
	26965	841.5	QPSK	1	0	24.58	21.56	38.45	-16.89
				1	74	24.58	21.56	38.45	-16.89
				36	19	23.56	20.54	38.45	-17.91
				75	0	23.6	20.58	38.45	-17.87
	26865	831.5	16QAM	1	0	23.93	20.91	38.45	-17.54
				1	74	23.98	20.96	38.45	-17.49
				36	19	22.76	19.74	38.45	-18.71
				75	0	22.78	19.76	38.45	-18.69
	26915	836.5	16QAM	1	0	23.87	20.85	38.45	-17.6
				1	74	24.1	21.08	38.45	-17.37
				36	19	22.6	19.58	38.45	-18.87
				75	0	22.61	19.59	38.45	-18.86
	26965	841.5	16QAM	1	0	23.98	20.96	38.45	-17.49
				1	74	23.8	20.78	38.45	-17.67
				36	19	22.59	19.57	38.45	-18.88
				75	0	22.54	19.52	38.45	-18.93

Antenna gain (dBi) -3.02

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	24.55	21.53	50	-28.47
				1	5	24.58	21.56	50	-28.44
				3	2	24.51	21.49	50	-28.51
				6	0	23.63	20.61	50	-29.39
	26740	819	QPSK	1	0	24.53	21.51	50	-28.49
				1	5	24.55	21.53	50	-28.47
				3	2	24.52	21.5	50	-28.5
				6	0	23.57	20.55	50	-29.45
	26783	823.3	QPSK	1	0	24.55	21.53	50	-28.47
				1	5	24.42	21.4	50	-28.6
				3	2	24.47	21.45	50	-28.55
				6	0	23.57	20.55	50	-29.45
	26697	814.7	16QAM	1	0	23.7	20.68	50	-29.32
				1	5	23.85	20.83	50	-29.17
				3	2	23.46	20.44	50	-29.56
				6	0	22.53	19.51	50	-30.49
	26740	819	16QAM	1	0	23.99	20.97	50	-29.03
				1	5	24.15	21.13	50	-28.87
				3	2	23.75	20.73	50	-29.27
				6	0	22.65	19.63	50	-30.37
	26783	823.3	16QAM	1	0	23.83	20.81	50	-29.19
				1	5	23.71	20.69	50	-29.31
				3	2	23.75	20.73	50	-29.27
				6	0	22.65	19.63	50	-30.37

Antenna gain (dBi) -3.02

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	24.41	21.39	50	-28.61
				1	14	24.53	21.51	50	-28.49
				8	4	23.6	20.58	50	-29.42
				15	0	23.61	20.59	50	-29.41
	26740	819	QPSK	1	0	24.51	21.49	50	-28.51
				1	14	24.48	21.46	50	-28.54
				8	4	23.55	20.53	50	-29.47
				15	0	23.61	20.59	50	-29.41
	26775	822.5	QPSK	1	0	24.49	21.47	50	-28.53
				1	14	24.37	21.35	50	-28.65
				8	4	23.55	20.53	50	-29.47
				15	0	23.58	20.56	50	-29.44
	26705	815.5	16QAM	1	0	23.77	20.75	50	-29.25
				1	14	23.89	20.87	50	-29.13
				8	4	22.69	19.67	50	-30.33
				15	0	22.56	19.54	50	-30.46
	26740	819	16QAM	1	0	23.14	20.12	50	-29.88
				1	14	23.94	20.92	50	-29.08
				8	4	22.66	19.64	50	-30.36
				15	0	22.69	19.67	50	-30.33
	26775	822.5	16QAM	1	0	23.66	20.64	50	-29.36
				1	14	23.81	20.79	50	-29.21
				8	4	22.41	19.39	50	-30.61
				15	0	22.56	19.54	50	-30.46

Antenna gain (dBi) -3.02

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	24.53	21.51	50	-28.49
				1	24	24.5	21.48	50	-28.52
				12	6	23.65	20.63	50	-29.37
				25	0	23.61	20.59	50	-29.41
	26740	819	QPSK	1	0	24.48	21.46	50	-28.54
				1	24	24.45	21.43	50	-28.57
				12	6	23.59	20.57	50	-29.43
				25	0	23.65	20.63	50	-29.37
	26765	821.5	QPSK	1	0	24.49	21.47	50	-28.53
				1	24	24.55	21.53	50	-28.47
				12	6	23.63	20.61	50	-29.39
				25	0	23.54	20.52	50	-29.48
	26715	816.5	16QAM	1	0	23.95	20.93	50	-29.07
				1	24	23.71	20.69	50	-29.31
				12	6	22.72	19.7	50	-30.3
				25	0	22.68	19.66	50	-30.34
	26740	819	16QAM	1	0	23.8	20.78	50	-29.22
				1	24	23.94	20.92	50	-29.08
				12	6	22.69	19.67	50	-30.33
				25	0	22.72	19.7	50	-30.3
	26765	821.5	16QAM	1	0	24.18	21.16	50	-28.84
				1	24	23.52	20.5	50	-29.5
				12	6	22.61	19.59	50	-30.41
				25	0	22.69	19.67	50	-30.33

Antenna gain (dBi) -3.02

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	24.46	21.44	50	-28.56
				1	49	24.66	21.64	50	-28.36
				25	12	23.48	20.46	50	-29.54
				50	0	23.58	20.56	50	-29.44
	26740	819	16QAM	1	0	23.89	20.87	50	-29.13
				1	49	23.93	20.91	50	-29.09
				25	12	22.68	19.66	50	-30.34
				50	0	22.57	19.55	50	-30.45

Antenna gain (dBi) 2.33

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	20.05	22.38	24	-1.62
				1	24	19.65	21.98	24	-2.02
				12	6	18.57	20.9	24	-3.1
				25	0	18.7	21.03	24	-2.97
	27710	2310	QPSK	1	0	19.71	22.04	24	-1.96
				1	24	19.86	22.19	24	-1.81
				12	6	18.74	21.07	24	-2.93
				25	0	18.81	21.14	24	-2.86
	27735	2312.5	QPSK	1	0	19.82	22.15	24	-1.85
				1	24	19.86	22.19	24	-1.81
				12	6	18.75	21.08	24	-2.92
				25	0	18.74	21.07	24	-2.93
	27685	2307.5	16QAM	1	0	19.1	21.43	24	-2.57
				1	24	18.89	21.22	24	-2.78
				12	6	17.59	19.92	24	-4.08
				25	0	17.66	19.99	24	-4.01
	27710	2310	16QAM	1	0	19.25	21.58	24	-2.42
				1	24	19.46	21.79	24	-2.21
				12	6	17.85	20.18	24	-3.82
				25	0	17.78	20.11	24	-3.89
	27735	2312.5	16QAM	1	0	19.14	21.47	24	-2.53
				1	24	19.22	21.55	24	-2.45
				12	6	17.69	20.02	24	-3.98
				25	0	17.7	20.03	24	-3.97

Antenna gain (dBi) 2.33

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	19.94	22.27	24	-1.73
				1	49	20.01	22.34	24	-1.66
				25	12	18.91	21.24	24	-2.76
				50	0	18.98	21.31	24	-2.69
	27710	2310	16QAM	1	0	19.19	21.52	24	-2.48
				1	49	19.46	21.79	24	-2.21
				25	12	17.95	20.28	24	-3.72
				50	0	18.13	20.46	24	-3.54

Antenna gain (dBi) -0.81

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	24.17	23.36	33	-9.64
				1	24	24.13	23.32	33	-9.68
				12	6	23.25	22.44	33	-10.56
				25	0	23.3	22.49	33	-10.51
	38000	2595	QPSK	1	0	24.24	23.43	33	-9.57
				1	24	24.05	23.24	33	-9.76
				12	6	23.24	22.43	33	-10.57
				25	0	23.23	22.42	33	-10.58
	38225	2617.5	QPSK	1	0	24.3	23.49	33	-9.51
				1	24	24.42	23.61	33	-9.39
				12	6	23.43	22.62	33	-10.38
				25	0	23.42	22.61	33	-10.39
	37775	2572.5	16QAM	1	0	23.5	22.69	33	-10.31
				1	24	23.42	22.61	33	-10.39
				12	6	22.22	21.41	33	-11.59
				25	0	22.34	21.53	33	-11.47
	38000	2595	16QAM	1	0	23.19	22.38	33	-10.62
				1	24	23.21	22.4	33	-10.6
				12	6	22.29	21.48	33	-11.52
				25	0	22.23	21.42	33	-11.58
	38225	2617.5	16QAM	1	0	23.55	22.74	33	-10.26
				1	24	23.61	22.8	33	-10.2
				12	6	22.47	21.66	33	-11.34
				25	0	22.5	21.69	33	-11.31

Antenna gain (dBi) -0.81

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	24.43	23.62	33	-9.38
				1	49	24.19	23.38	33	-9.62
				25	12	23.31	22.5	33	-10.5
				50	0	23.27	22.46	33	-10.54
	38000	2595	QPSK	1	0	24.16	23.35	33	-9.65
				1	49	24.17	23.36	33	-9.64
				25	12	23.25	22.44	33	-10.56
				50	0	23.23	22.42	33	-10.58
	38200	2615	QPSK	1	0	24.31	23.5	33	-9.5
				1	49	24.34	23.53	33	-9.47
				25	12	23.49	22.68	33	-10.32
				50	0	23.44	22.63	33	-10.37
	37800	2575	16QAM	1	0	23.3	22.49	33	-10.51
				1	49	23.07	22.26	33	-10.74
				25	12	22.45	21.64	33	-11.36
				50	0	22.23	21.42	33	-11.58
	38000	2595	16QAM	1	0	23.53	22.72	33	-10.28
				1	49	23.24	22.43	33	-10.57
				25	12	22.37	21.56	33	-11.44
				50	0	22.28	21.47	33	-11.53
	38200	2615	16QAM	1	0	23.46	22.65	33	-10.35
				1	49	23.66	22.85	33	-10.15
				25	12	22.53	21.72	33	-11.28
				50	0	22.51	21.7	33	-11.3

Antenna gain (dBi) -0.81

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	24.28	23.47	33	-9.53
				1	74	24.21	23.4	33	-9.6
				36	19	23.28	22.47	33	-10.53
				75	0	23.26	22.45	33	-10.55
	38000	2595	QPSK	1	0	24.09	23.28	33	-9.72
				1	74	24.2	23.39	33	-9.61
				36	19	23.27	22.46	33	-10.54
				75	0	23.23	22.42	33	-10.58
	38175	2612.5	QPSK	1	0	24.24	23.43	33	-9.57
				1	74	24.59	23.78	33	-9.22
				36	19	23.39	22.58	33	-10.42
				75	0	23.36	22.55	33	-10.45
	37825	2577.5	16QAM	1	0	23.78	22.97	33	-10.03
				1	74	23.16	22.35	33	-10.65
				36	19	22.26	21.45	33	-11.55
				75	0	22.22	21.41	33	-11.59
	38000	2595	16QAM	1	0	23.22	22.41	33	-10.59
				1	74	23.43	22.62	33	-10.38
				36	19	22.29	21.48	33	-11.52
				75	0	22.24	21.43	33	-11.57
	38175	2612.5	16QAM	1	0	23.34	22.53	33	-10.47
				1	74	23.63	22.82	33	-10.18
				36	19	22.38	21.57	33	-11.43
				75	0	22.32	21.51	33	-11.49

Antenna gain (dBi) -0.81

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	24.37	23.56	33	-9.44
				1	99	24.25	23.44	33	-9.56
				50	25	23.23	22.42	33	-10.58
				100	0	23.27	22.46	33	-10.54
	38000	2595	QPSK	1	0	24.13	23.32	33	-9.68
				1	99	24.53	23.72	33	-9.28
				50	25	23.2	22.39	33	-10.61
				100	0	23.26	22.45	33	-10.55
	38150	2610	QPSK	1	0	24.2	23.39	33	-9.61
				1	99	24.37	23.56	33	-9.44
				50	25	23.35	22.54	33	-10.46
				100	0	23.36	22.55	33	-10.45
	37850	2580	16QAM	1	0	23.43	22.62	33	-10.38
				1	99	23.43	22.62	33	-10.38
				50	25	22.24	21.43	33	-11.57
				100	0	22.29	21.48	33	-11.52
	38000	2595	16QAM	1	0	23.36	22.55	33	-10.45
				1	99	23.58	22.77	33	-10.23
				50	25	22.23	21.42	33	-11.58
				100	0	22.23	21.42	33	-11.58
	38150	2610	16QAM	1	0	23.76	22.95	33	-10.05
				1	99	23.42	22.61	33	-10.39
				50	25	22.37	21.56	33	-11.44
				100	0	22.34	21.53	33	-11.47

Antenna gain (dBi) -0.81

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	24.89	24.08	33	-8.92
				1	24	24.74	23.93	33	-9.07
				12	6	23.9	23.09	33	-9.91
				25	0	23.95	23.14	33	-9.86
	40620	2593	QPSK	1	0	24.26	23.45	33	-9.55
				1	24	24.15	23.34	33	-9.66
				12	6	23.36	22.55	33	-10.45
				25	0	23.36	22.55	33	-10.45
	41565	2687.5	QPSK	1	0	24.88	24.07	33	-8.93
				1	24	24.96	24.15	33	-8.85
				12	6	23.88	23.07	33	-9.93
				25	0	23.91	23.1	33	-9.9
	39675	2498.5	16QAM	1	0	23.83	23.02	33	-9.98
				1	24	23.83	23.02	33	-9.98
				12	6	22.95	22.14	33	-10.86
				25	0	23	22.19	33	-10.81
	40620	2593	16QAM	1	0	23.27	22.46	33	-10.54
				1	24	22.95	22.14	33	-10.86
				12	6	22.38	21.57	33	-11.43
				25	0	22.34	21.53	33	-11.47
	41565	2687.5	16QAM	1	0	23.83	23.02	33	-9.98
				1	24	23.88	23.07	33	-9.93
				12	6	22.96	22.15	33	-10.85
				25	0	22.94	22.13	33	-10.87

Antenna gain (dBi) -0.81

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	24.84	24.03	33	-8.97
				1	49	24.83	24.02	33	-8.98
				25	12	23.94	23.13	33	-9.87
				50	0	23.91	23.1	33	-9.9
	40620	2593	QPSK	1	0	24.3	23.49	33	-9.51
				1	49	24.32	23.51	33	-9.49
				25	12	23.37	22.56	33	-10.44
				50	0	23.34	22.53	33	-10.47
	41540	2685	QPSK	1	0	24.83	24.02	33	-8.98
				1	49	24.98	24.17	33	-8.83
				25	12	23.96	23.15	33	-9.85
				50	0	23.93	23.12	33	-9.88
	39700	2501	16QAM	1	0	24	23.19	33	-9.81
				1	49	23.77	22.96	33	-10.04
				25	12	23	22.19	33	-10.81
				50	0	22.98	22.17	33	-10.83
	40620	2593	16QAM	1	0	22.83	22.02	33	-10.98
				1	49	22.92	22.11	33	-10.89
				25	12	22.43	21.62	33	-11.38
				50	0	22.38	21.57	33	-11.43
	41540	2685	16QAM	1	0	23.88	23.07	33	-9.93
				1	49	23.22	22.41	33	-10.59
				25	12	22.83	22.02	33	-10.98
				50	0	22.98	22.17	33	-10.83

Antenna gain (dBi) -0.81

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	24.2	23.39	33	-9.61
				1	74	24.25	23.44	33	-9.56
				36	19	23.24	22.43	33	-10.57
				75	0	23.25	22.44	33	-10.56
	40620	2593	QPSK	1	0	24.11	23.3	33	-9.7
				1	74	24.26	23.45	33	-9.55
				36	19	23.26	22.45	33	-10.55
				75	0	23.23	22.42	33	-10.58
	41515	2682.5	QPSK	1	0	24.74	23.93	33	-9.07
				1	74	25	24.19	33	-8.81
				36	19	23.81	23	33	-10
				75	0	23.8	22.99	33	-10.01
	39725	2503.5	16QAM	1	0	23.4	22.59	33	-10.41
				1	74	23.37	22.56	33	-10.44
				36	19	22.26	21.45	33	-11.55
				75	0	22.28	21.47	33	-11.53
	40620	2593	16QAM	1	0	23.06	22.25	33	-10.75
				1	74	23.02	22.21	33	-10.79
				36	19	22.28	21.47	33	-11.53
				75	0	22.23	21.42	33	-11.58
	41515	2682.5	16QAM	1	0	23.71	22.9	33	-10.1
				1	74	23.98	23.17	33	-9.83
				36	19	22.88	22.07	33	-10.93
				75	0	22.81	22	33	-11

Antenna gain (dBi) -0.81

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	24.97	24.16	33	-8.84
				1	99	24.66	23.85	33	-9.15
				50	25	23.79	22.98	33	-10.02
				100	0	23.84	23.03	33	-9.97
	40620	2593	QPSK	1	0	24.26	23.45	33	-9.55
				1	99	24.41	23.6	33	-9.4
				50	25	23.27	22.46	33	-10.54
				100	0	23.3	22.49	33	-10.51
	41490	2680	QPSK	1	0	24.68	23.87	33	-9.13
				1	99	24.77	23.96	33	-9.04
				50	25	23.78	22.97	33	-10.03
				100	0	23.83	23.02	33	-9.98
	39750	2506	16QAM	1	0	23.77	22.96	33	-10.04
				1	99	23.35	22.54	33	-10.46
				50	25	22.8	21.99	33	-11.01
				100	0	22.85	22.04	33	-10.96
	40620	2593	16QAM	1	0	23.2	22.39	33	-10.61
				1	99	23.37	22.56	33	-10.44
				50	25	22.29	21.48	33	-11.52
				100	0	22.3	21.49	33	-11.51
	41490	2680	16QAM	1	0	23.57	22.76	33	-10.24
				1	99	23.81	23	33	-10
				50	25	22.86	22.05	33	-10.95
				100	0	22.87	22.06	33	-10.94

Antenna gain (dBi) 2.08

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	24.31	26.39	30	-3.61
				1	5	24.23	26.31	30	-3.69
				3	2	24.26	26.34	30	-3.66
				6	0	23.29	25.37	30	-4.63
	132322	1745	QPSK	1	0	24.37	26.45	30	-3.55
				1	5	24.44	26.52	30	-3.48
				3	2	24.35	26.43	30	-3.57
				6	0	23.48	25.56	30	-4.44
	132665	1779.3	QPSK	1	0	24.39	26.47	30	-3.53
				1	5	24.43	26.51	30	-3.49
				3	2	24.38	26.46	30	-3.54
				6	0	23.41	25.49	30	-4.51
	131979	1710.7	16QAM	1	0	23.57	25.65	30	-4.35
				1	5	23.66	25.74	30	-4.26
				3	2	23.48	25.56	30	-4.44
				6	0	22.53	24.61	30	-5.39
	132322	1745	16QAM	1	0	23.83	25.91	30	-4.09
				1	5	23.72	25.8	30	-4.2
				3	2	23.57	25.65	30	-4.35
				6	0	22.53	24.61	30	-5.39
	132665	1779.3	16QAM	1	0	23.99	26.07	30	-3.93
				1	5	23.76	25.84	30	-4.16
				3	2	23.64	25.72	30	-4.28
				6	0	22.43	24.51	30	-5.49

Antenna gain (dBi) 2.08

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	24.28	26.36	30	-3.64
				1	14	24.24	26.32	30	-3.68
				8	4	23.43	25.51	30	-4.49
				15	0	23.36	25.44	30	-4.56
	132322	1745	QPSK	1	0	24.31	26.39	30	-3.61
				1	14	24.37	26.45	30	-3.55
				8	4	23.5	25.58	30	-4.42
				15	0	23.42	25.5	30	-4.5
	132657	1778.5	QPSK	1	0	24.27	26.35	30	-3.65
				1	14	24.36	26.44	30	-3.56
				8	4	23.42	25.5	30	-4.5
				15	0	23.43	25.51	30	-4.49
	131987	1711.5	16QAM	1	0	23.8	25.88	30	-4.12
				1	14	23.34	25.42	30	-4.58
				8	4	22.65	24.73	30	-5.27
				15	0	22.4	24.48	30	-5.52
	132322	1745	16QAM	1	0	23.55	25.63	30	-4.37
				1	14	23.6	25.68	30	-4.32
				8	4	22.63	24.71	30	-5.29
				15	0	22.37	24.45	30	-5.55
	132657	1778.5	16QAM	1	0	23.58	25.66	30	-4.34
				1	14	23.86	25.94	30	-4.06
				8	4	22.5	24.58	30	-5.42
				15	0	22.45	24.53	30	-5.47

Antenna gain (dBi) 2.08

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	24.31	26.39	30	-3.61
				1	24	24.31	26.39	30	-3.61
				12	6	23.42	25.5	30	-4.5
				25	0	23.44	25.52	30	-4.48
	132322	1745	QPSK	1	0	24.4	26.48	30	-3.52
				1	24	24.41	26.49	30	-3.51
				12	6	23.59	25.67	30	-4.33
				25	0	23.5	25.58	30	-4.42
	132647	1777.5	QPSK	1	0	24.46	26.54	30	-3.46
				1	24	24.34	26.42	30	-3.58
				12	6	23.54	25.62	30	-4.38
				25	0	23.53	25.61	30	-4.39
	131997	1712.5	16QAM	1	0	23.63	25.71	30	-4.29
				1	24	23.22	25.3	30	-4.7
				12	6	22.5	24.58	30	-5.42
				25	0	22.65	24.73	30	-5.27
	132322	1745	16QAM	1	0	23.61	25.69	30	-4.31
				1	24	23.74	25.82	30	-4.18
				12	6	22.58	24.66	30	-5.34
				25	0	22.59	24.67	30	-5.33
	132647	1777.5	16QAM	1	0	23.96	26.04	30	-3.96
				1	24	24	26.08	30	-3.92
				12	6	22.73	24.81	30	-5.19
				25	0	22.68	24.76	30	-5.24

Antenna gain (dBi) 2.08

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	24.31	26.39	30	-3.61
				1	49	24.57	26.65	30	-3.35
				25	12	23.37	25.45	30	-4.55
				50	0	23.31	25.39	30	-4.61
	132322	1745	QPSK	1	0	24.58	26.66	30	-3.34
				1	49	24.44	26.52	30	-3.48
				25	12	23.4	25.48	30	-4.52
				50	0	23.41	25.49	30	-4.51
	132622	1775	QPSK	1	0	24.66	26.74	30	-3.26
				1	49	24.47	26.55	30	-3.45
				25	12	23.54	25.62	30	-4.38
				50	0	23.51	25.59	30	-4.41
	132022	1715	16QAM	1	0	23.68	25.76	30	-4.24
				1	49	23.74	25.82	30	-4.18
				25	12	22.46	24.54	30	-5.46
				50	0	22.44	24.52	30	-5.48
	132322	1745	16QAM	1	0	23.65	25.73	30	-4.27
				1	49	23.63	25.71	30	-4.29
				25	12	22.59	24.67	30	-5.33
				50	0	22.48	24.56	30	-5.44
	132622	1775	16QAM	1	0	23.83	25.91	30	-4.09
				1	49	23.89	25.97	30	-4.03
				25	12	22.62	24.7	30	-5.3
				50	0	22.47	24.55	30	-5.45

Antenna gain (dBi) 2.08

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	24.33	26.41	30	-3.59
				1	74	24.55	26.63	30	-3.37
				36	19	23.29	25.37	30	-4.63
				75	0	23.37	25.45	30	-4.55
	132322	1745	QPSK	1	0	24.37	26.45	30	-3.55
				1	74	24.35	26.43	30	-3.57
				36	19	23.41	25.49	30	-4.51
				75	0	23.42	25.5	30	-4.5
	132597	1772.5	QPSK	1	0	24.46	26.54	30	-3.46
				1	74	24.34	26.42	30	-3.58
				36	19	23.52	25.6	30	-4.4
				75	0	23.55	25.63	30	-4.37
	132047	1717.5	16QAM	1	0	23.9	25.98	30	-4.02
				1	74	23.18	25.26	30	-4.74
				36	19	22.36	24.44	30	-5.56
				75	0	22.37	24.45	30	-5.55
	132322	1745	16QAM	1	0	23.93	26.01	30	-3.99
				1	74	23.46	25.54	30	-4.46
				36	19	22.48	24.56	30	-5.44
				75	0	22.46	24.54	30	-5.46
	132597	1772.5	16QAM	1	0	23.53	25.61	30	-4.39
				1	74	23.48	25.56	30	-4.44
				36	19	22.51	24.59	30	-5.41
				75	0	22.55	24.63	30	-5.37

Antenna gain (dBi) 2.08

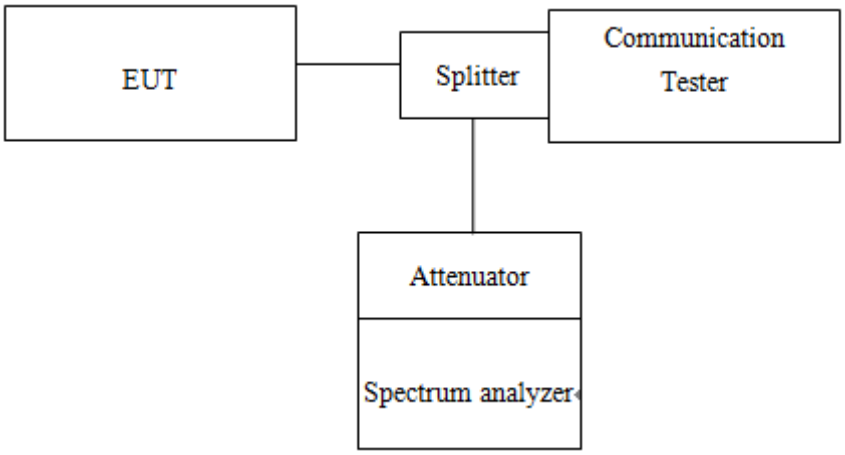
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	24.34	26.42	30	-3.58
				1	99	24.38	26.46	30	-3.54
				50	25	23.28	25.36	30	-4.64
				100	0	23.32	25.4	30	-4.6
	132322	1745	QPSK	1	0	24.33	26.41	30	-3.59
				1	99	24.24	26.32	30	-3.68
				50	25	23.4	25.48	30	-4.52
				100	0	23.44	25.52	30	-4.48
	132572	1770	QPSK	1	0	24.58	26.66	30	-3.34
				1	99	24.56	26.64	30	-3.36
				50	25	23.56	25.64	30	-4.36
				100	0	23.56	25.64	30	-4.36
	132072	1720	16QAM	1	0	23.58	25.66	30	-4.34
				1	99	23.76	25.84	30	-4.16
				50	25	22.35	24.43	30	-5.57
				100	0	22.34	24.42	30	-5.58
	132322	1745	16QAM	1	0	23.98	26.06	30	-3.94
				1	99	23.74	25.82	30	-4.18
				50	25	22.38	24.46	30	-5.54
				100	0	22.45	24.53	30	-5.47
	132572	1770	16QAM	1	0	23.9	25.98	30	-4.02
				1	99	23.75	25.83	30	-4.17
				50	25	22.56	24.64	30	-5.36
				100	0	22.66	24.74	30	-5.26

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%.

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 Communica-tion 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

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.24670	4.24380	4.25110	6.00000	6.00000	5.99560
1880.00	9400	4.06640	4.06640	4.07400	4.62220	4.63140	4.61550
1907.60	9538	4.17920	4.16750	4.16730	5.46680	5.44310	5.47500

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.07450	4.07020	4.07230	4.64400	4.64800	4.64900
1732.60	1413	4.07350	4.07740	4.07690	4.62400	4.63200	4.64400
1752.60	1513	4.06830	4.06780	4.06090	4.63800	4.63300	4.61300

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.08940	4.08160	4.08240	4.68070	4.69470	4.68570
836.60	4183	4.07810	4.07900	4.07120	4.64090	4.65350	4.64140
846.60	4233	4.10290	4.10880	4.11280	4.71450	4.72250	4.71550

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.1365	1.8844	1.9261	2.9306
1880.0	18900	1.1131	1.1155	1.3794	1.3015
1909.3	19193	1.7617	1.8230	2.8570	2.9397

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.8117	2.7605	5.4240	5.2259
1880.0	18900	2.7248	2.7359	3.1884	3.3582
1908.5	19185	3.5709	3.7166	5.9769	5.9631

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5282	4.5403	5.0216	6.3965
1880.0	18900	4.5404	4.5141	5.0506	4.9413
1907.5	19175	4.9901	4.5561	9.6607	8.0725

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	9.0861	9.1082	10.558	11.388
1880.0	18900	9.0842	9.0912	10.482	10.529
1905.0	19150	9.2130	9.0806	13.781	12.025

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.571	13.581	16.471	16.406
1880.0	18900	13.571	13.570	15.849	15.467
1902.5	19125	13.655	13.558	19.334	15.897

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	18.008	18.003	20.535	20.111
1880.0	18900	18.030	18.079	20.069	20.430
1900.0	19100	18.072	17.999	20.354	19.891

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1101	1.1067	1.2620	1.2678
1732.5	20175	1.1075	1.1064	1.2640	1.2668
1754.3	20393	1.1156	1.1103	1.2663	1.2624

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7233	2.7308	3.0346	3.0326
1732.5	20175	2.7233	2.7219	3.0184	3.0240
1753.5	20385	2.7216	2.7205	3.0068	3.0197

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5306	4.5124	5.0010	4.9485
1732.5	20175	4.5396	4.5208	5.0459	5.1516
1752.5	20375	4.5244	4.5176	5.0390	4.9650

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	9.0680	9.0765	10.591	10.514
1732.5	20175	9.0934	9.0903	10.528	10.535
1750.0	20350	9.0698	9.0898	10.481	10.464

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.530	13.546	15.811	15.637
1732.5	20175	13.574	13.543	15.914	15.996
1747.5	20325	13.633	13.563	16.058	15.794

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.969	17.949	20.163	20.183
1732.5	20175	18.012	18.027	20.215	19.909
1745.0	20300	18.079	18.079	20.113	20.122

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1137	1.1137	1.2631	1.3584
836.5	20525	1.1075	1.1148	1.2569	1.2664
848.3	20643	1.1139	1.1236	1.2697	1.5994

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7156	2.7239	3.0281	3.0177
836.5	20525	2.7301	2.7307	2.9981	3.0292
847.5	20635	2.7286	2.7334	3.0298	3.8196

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5370	4.5280	5.0001	5.2214
836.5	20525	4.5263	4.5307	4.9812	4.9965
846.5	20625	4.5523	4.5495	5.0495	6.4099

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0975	9.1031	10.542	10.525
836.5	20525	9.0803	9.1132	10.477	10.644
844.0	20600	9.1100	9.1727	10.612	11.859

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1119	1.1101	1.2735	1.3475
707.5	23095	1.1065	1.1064	1.2584	1.2586
715.3	23173	1.1182	1.1169	1.2781	1.3488

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7236	2.7314	3.0347	3.0676
707.5	23095	2.7427	2.7266	3.0228	3.0232
714.5	23165	2.7393	2.7341	3.4924	3.1050

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5498	4.5218	5.3997	4.9789
707.5	23095	4.5343	4.5204	4.9918	4.9632
713.5	23155	4.5396	4.5261	5.3739	5.3726

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0976	9.0877	10.510	10.605
707.5	23095	9.1554	9.1012	10.866	10.670
711.0	23130	9.0663	9.0776	10.628	10.539

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.5531	4.5476	5.2562	6.1575
782.0	23230	4.5182	4.5284	5.0535	6.4475
784.5	23255	4.5285	4.5220	5.2490	5.1857

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.988	9.030	10.281	10.336

LTE BAND 14 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
790.5	23305	4.5544	4.5531	5.9522	7.6535
793.0	23330	4.5412	4.5654	5.8707	7.5518
795.5	23355	4.5642	4.5798	6.6245	9.2107

LTE BAND 14 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
793.0	23330	9.089	9.163	11.265	15.723

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5398	4.5245	4.9847	4.9496
710.0	23790	4.5311	4.5374	4.9928	4.9677
713.5	23825	4.5330	4.5236	5.1095	5.9587

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.0895	9.1012	10.534	10.540
710.0	23790	9.0638	9.0642	10.489	10.621
711.0	23800	9.0439	9.0460	10.459	10.558

LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.1267	1.1281	1.900	1.685
1882.5	26365	1.1230	1.1152	1.663	1.364
1914.3	26683	1.4851	1.1353	2.809	2.190

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.7394	2.7337	3.084	3.842
1882.5	26365	2.7331	2.7240	3.263	3.412
1913.5	26675	2.7634	2.7627	4.753	4.906

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.5579	4.5396	6.425	6.540
1882.5	26365	4.5227	4.5521	5.054	7.167
1912.5	26665	4.6234	4.5591	9.331	8.626

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	9.0880	9.1600	10.590	13.880
1882.5	26365	9.0827	9.1578	11.460	13.860
1910.0	26640	9.0576	9.1535	10.560	15.600

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.722	13.724	27.07	25.19
1882.5	26365	13.721	13.703	21.05	21.83
1907.5	26615	14.141	13.665	25.63	22.78

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	18.1130	18.1580	25.350	32.780
1882.5	26365	18.1570	18.0860	28.660	26.370
1905.0	26590	18.2130	18.1280	30.270	29.200

LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.1051	1.1131	1.2581	1.3334
836.5	26915	1.1056	1.1159	1.2547	1.2655
848.3	27033	1.1132	1.1166	1.2687	1.5153

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.7331	2.7326	3.0172	3.0118
836.5	26915	2.7159	2.7309	3.0085	3.0211
847.5	27025	2.7257	2.7444	3.2166	3.4594

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5508	4.5226	4.9490	5.0358
836.5	26915	4.5388	4.5190	4.9955	4.9604
846.5	27015	4.5374	4.5381	5.2841	5.6515

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	26840	9.0745	9.0877	10.463	10.743
836.5	26915	9.0804	9.0738	10.472	10.518
844.0	26990	9.1018	9.1239	10.552	11.252

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.610	13.610	15.962	15.845
836.5	26915	13.524	13.534	15.562	15.612
841.5	26965	13.554	13.556	15.722	15.842

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1112	1.1096	1.2604	1.2687
819.0	26740	1.1058	1.1165	1.2593	1.2810
823.3	26783	1.1115	1.1155	1.2633	1.3405

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7326	2.7232	3.0344	3.0312
819.0	26740	2.7276	2.7398	3.0231	3.0375
822.5	26775	2.7238	2.7265	3.0178	3.0338

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5358	4.5336	4.9684	5.0211
819.0	26740	4.5329	4.5243	4.9343	4.9787
821.5	26765	4.5442	4.5102	5.1730	4.9507

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
819.0	26740	9.0663	9.1054	10.425	10.590

LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.5984	4.5906	8.4502	9.2925
2310.0	27710	4.5779	4.5711	8.8502	8.0801
2312.5	27735	4.5818	4.5643	9.0593	8.4306

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	9.3926	9.3297	19.0465	19.3276

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5392	4.5233	5.4477	4.9363
2595.0	38000	4.5334	4.5145	5.1339	5.0733
2617.5	38225	4.5282	4.5198	5.4166	5.9481

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	9.0652	9.0474	10.412	10.336
2595.0	38000	9.0614	9.0843	10.426	10.698
2615.0	38200	9.0893	9.0524	10.444	10.503

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.548	13.526	15.630	15.582
2595.0	38000	13.563	13.576	16.367	17.362
2612.5	38175	13.558	13.570	15.868	15.605

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	18.008	18.033	20.215	20.381
2595.0	38000	18.037	18.058	19.850	20.456
2610.0	38150	18.022	18.023	20.417	20.149

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5109	4.5247	5.3862	5.0259
2593.0	40620	4.5528	4.5509	5.1612	7.5088
2687.5	41565	4.5363	4.5107	5.1258	5.0882

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	9.0453	9.0267	10.397	10.523
2593.0	40620	9.0659	9.0999	10.521	13.214
2685.0	41540	9.0390	9.0465	10.530	10.789

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.534	13.586	16.028	15.623
2593.0	40620	13.562	13.597	15.980	18.750
2682.5	41515	13.586	13.541	15.907	15.303

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.998	18.101	20.068	23.072
2593.0	40620	18.004	18.420	20.630	38.039
2680.0	41490	18.003	18.054	20.060	21.060

LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.1093	1.1137	1.2560	1.2627
1745.0	132322	1.1085	1.1141	1.2586	1.2728
1779.3	132665	1.1059	1.1119	1.2547	1.2638

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.7203	2.7189	2.9999	3.0297
1745.0	132322	2.7338	2.7224	3.0069	3.0141
1778.5	132657	2.7167	2.7272	3.0047	3.0277

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5108	4.5221	4.9493	4.9974
1745.0	132322	4.5406	4.5345	5.0069	5.1572
1777.5	132647	4.5234	4.5234	4.9924	5.0114

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	9.0672	9.0768	10.4561	10.4869
1745.0	132322	9.0808	9.1099	10.6562	10.5111
1775.0	132622	9.0947	9.1289	10.5175	10.5926

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.5310	13.5370	15.3870	15.6760
1745.0	132322	13.6160	13.5660	15.8570	15.8510
1772.5	132597	13.5660	13.5440	15.7670	15.5010

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	17.9960	17.9690	20.0160	19.8240
1745.0	132322	18.0710	18.1080	24.3470	20.4240
1770.0	132572	18.0030	17.9970	20.1000	20.0080

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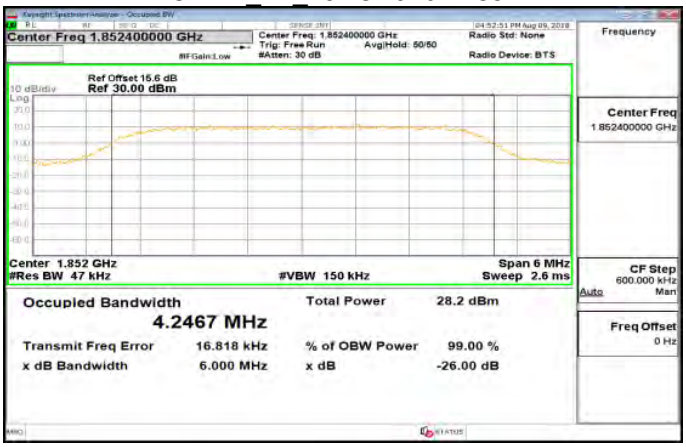
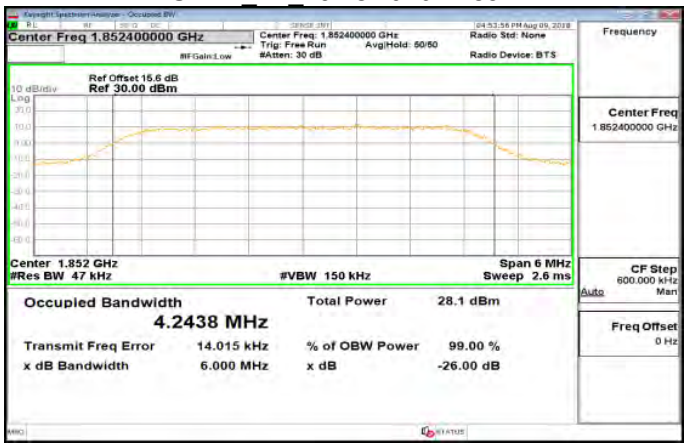


HSDPA_B2_LowCH9262-1852.4



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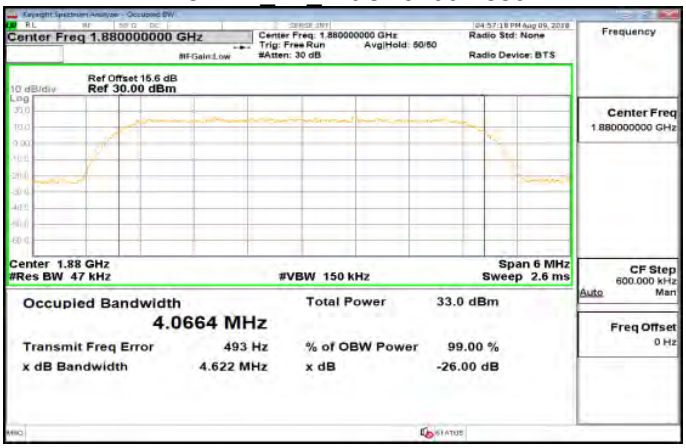

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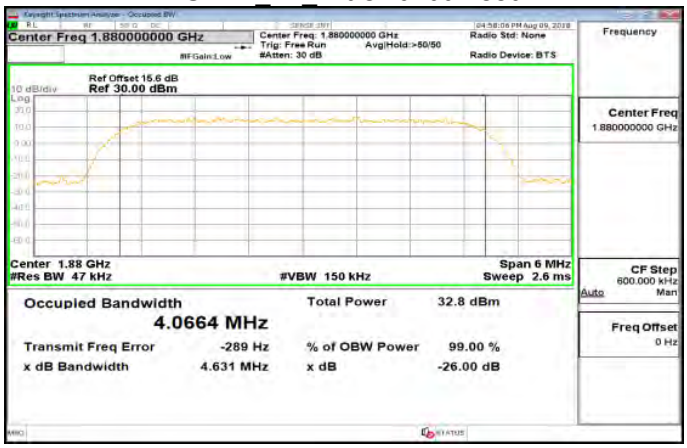

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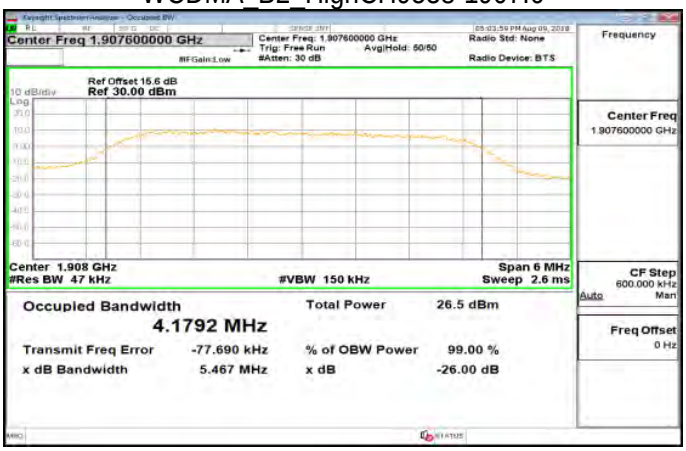

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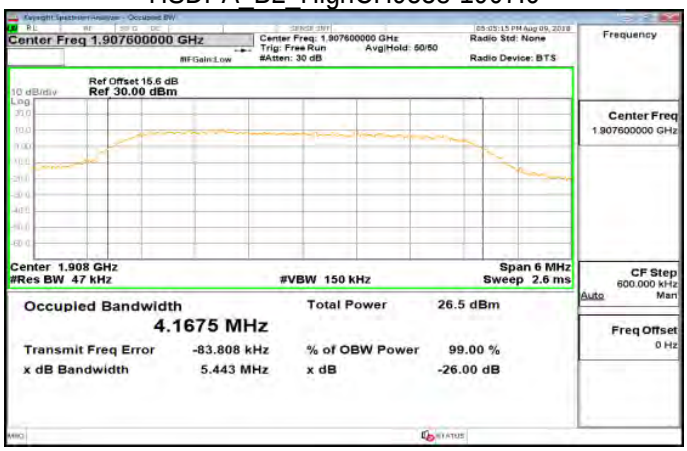

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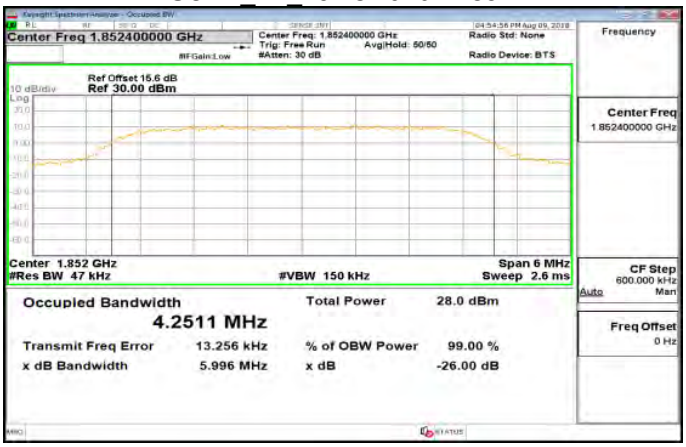

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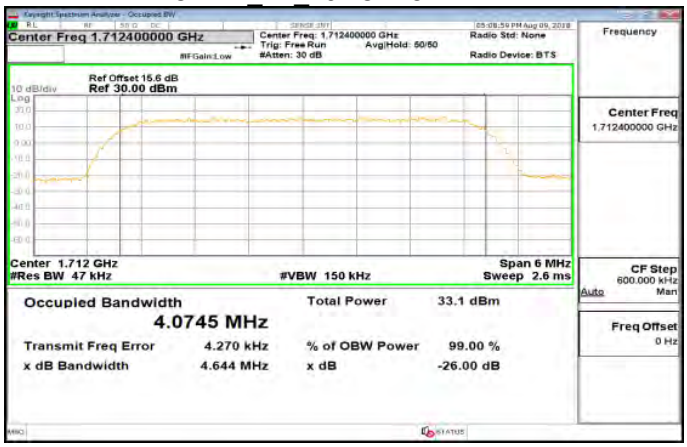

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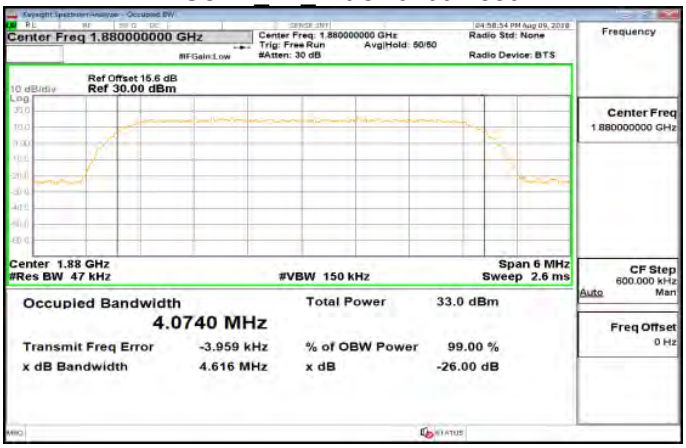

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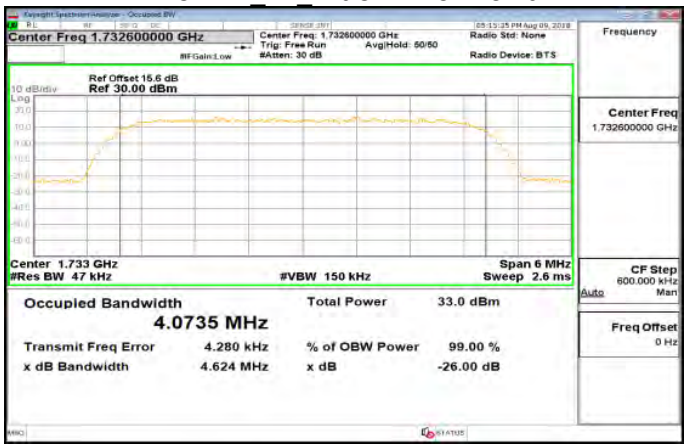

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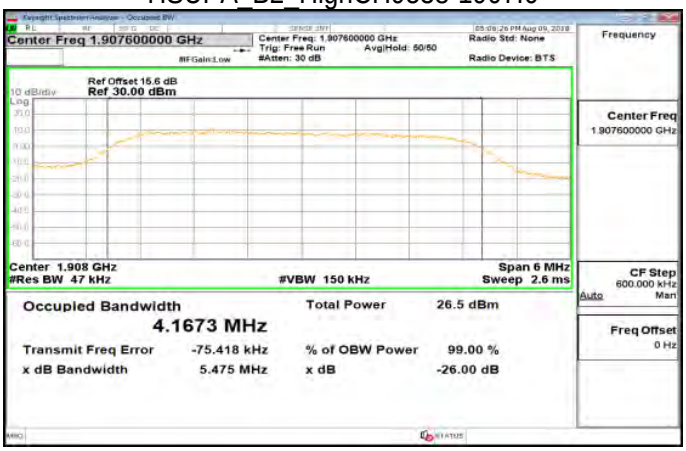

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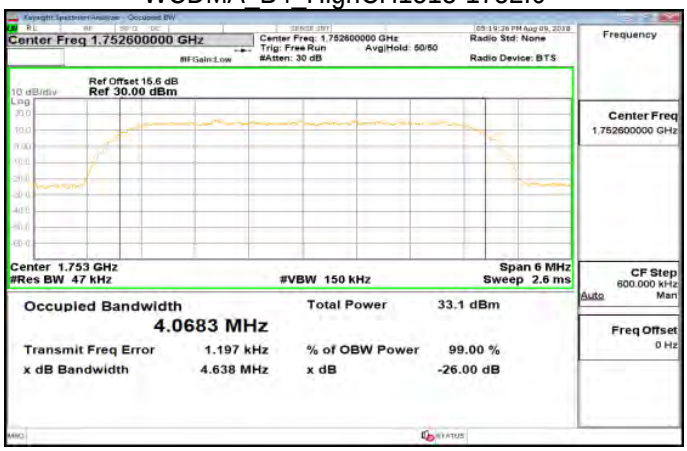

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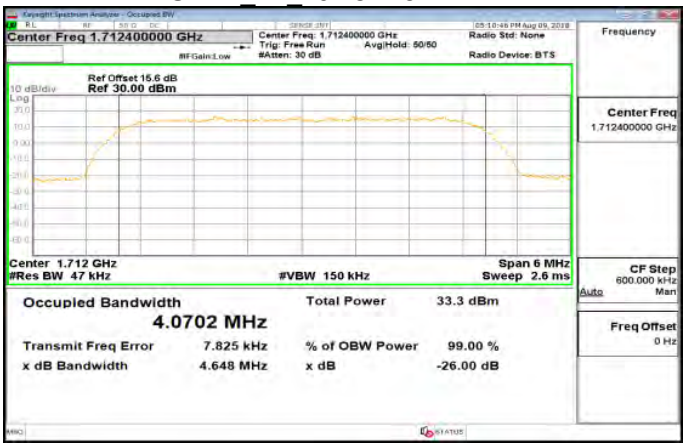

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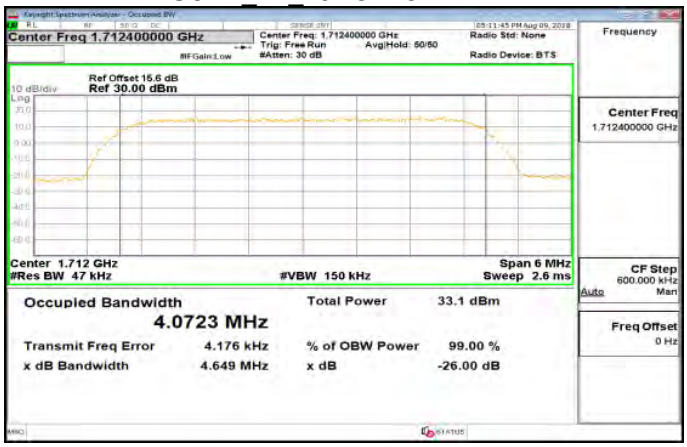

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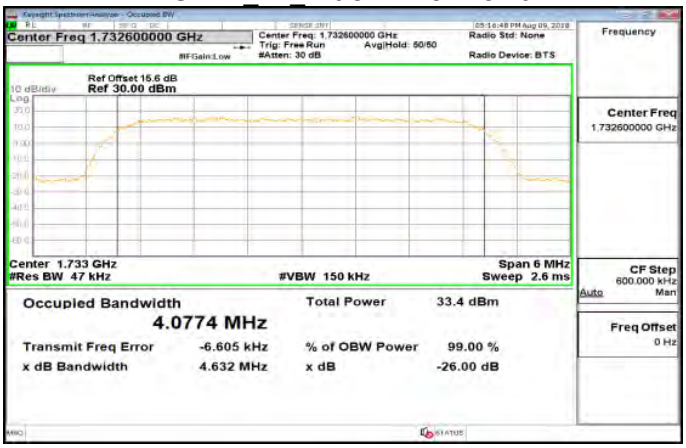

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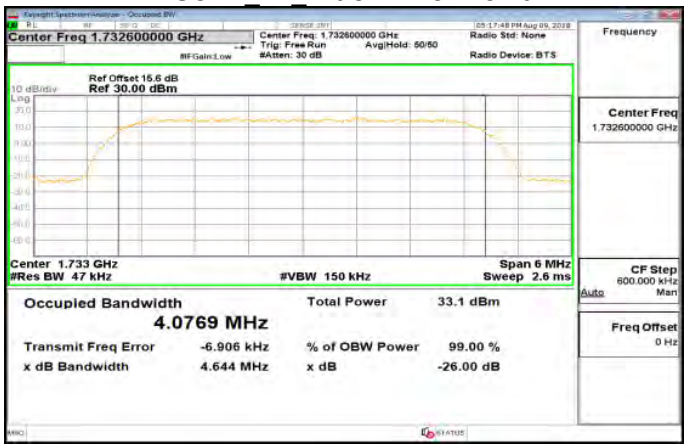

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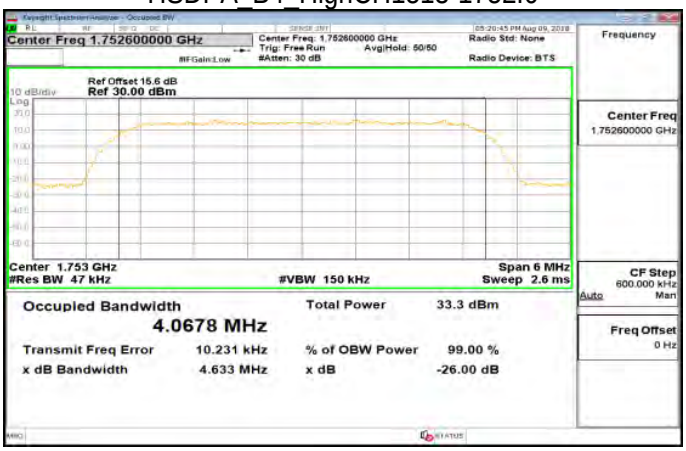

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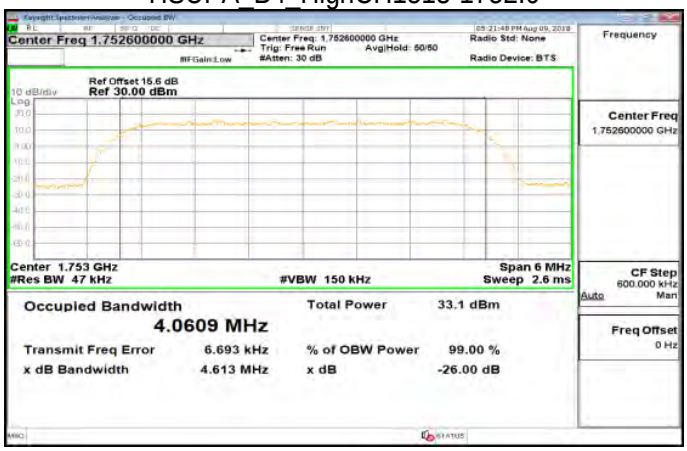
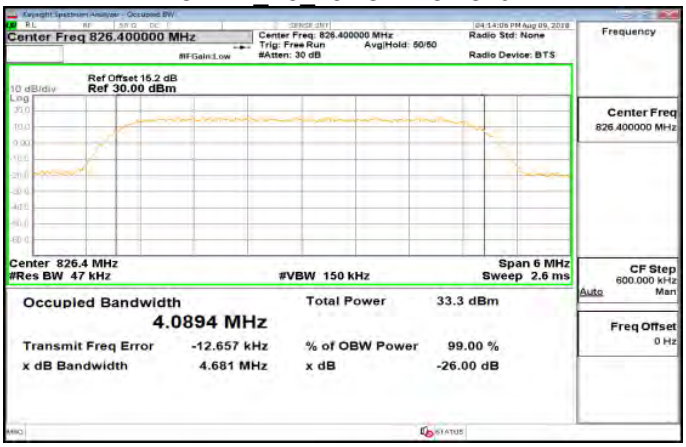


WCDMA_B5_LowCH4132-826.4



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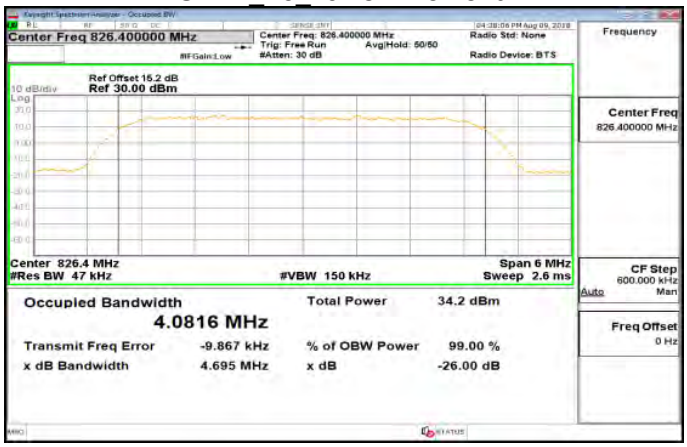

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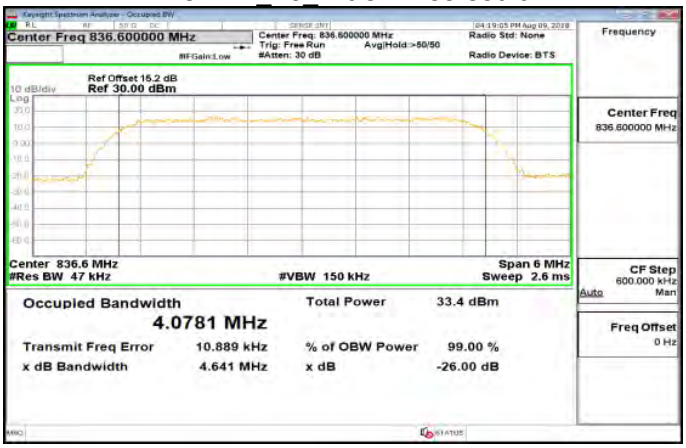

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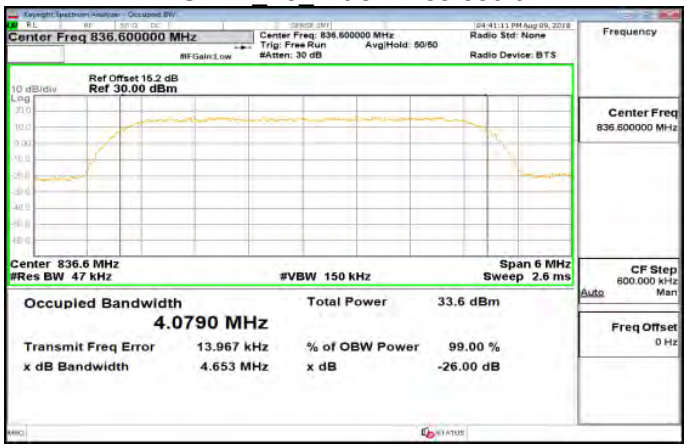

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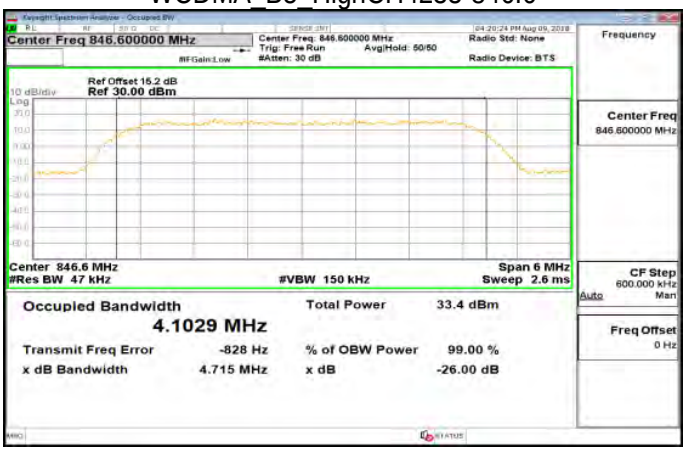

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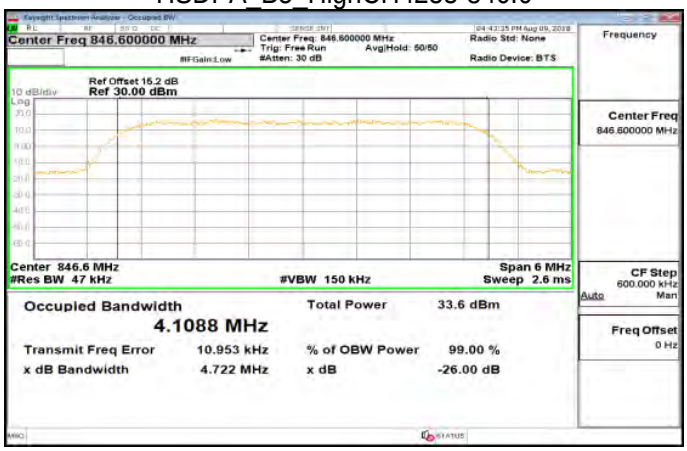

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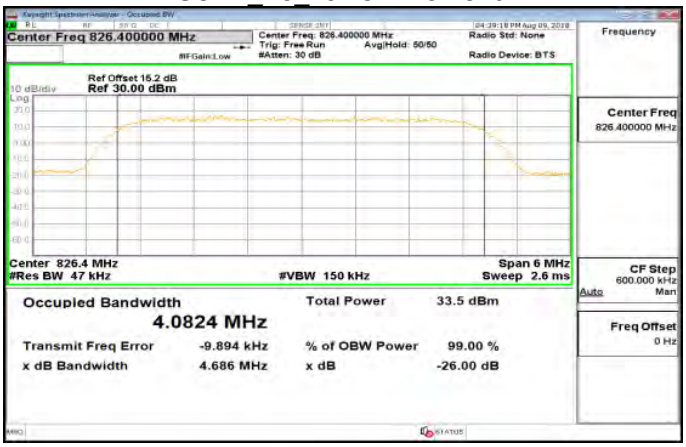

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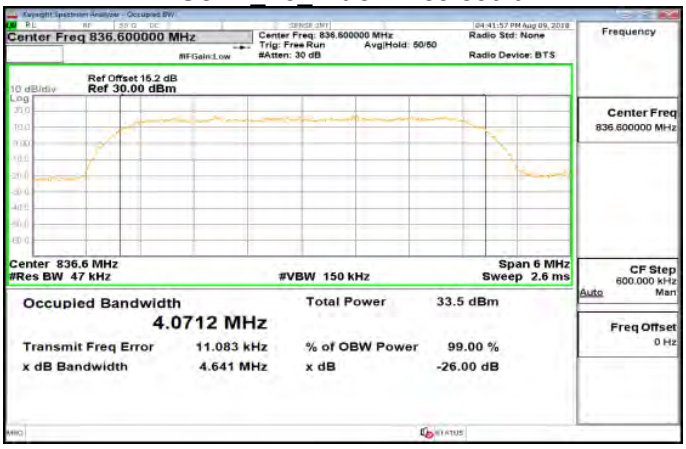

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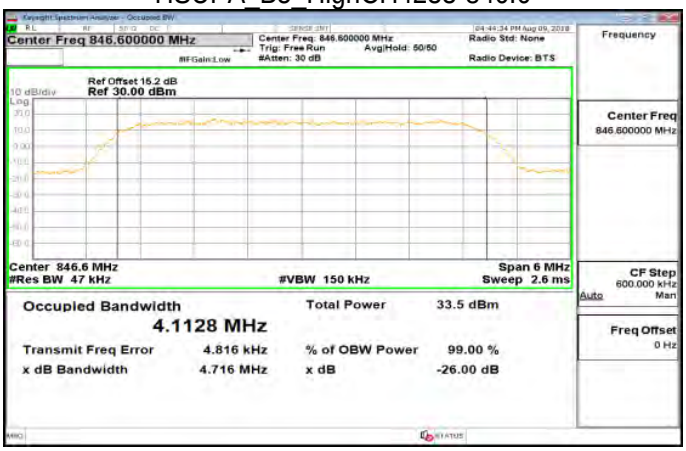
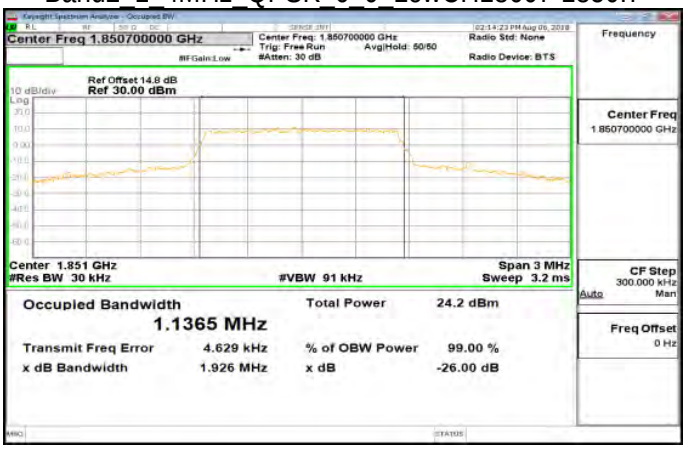
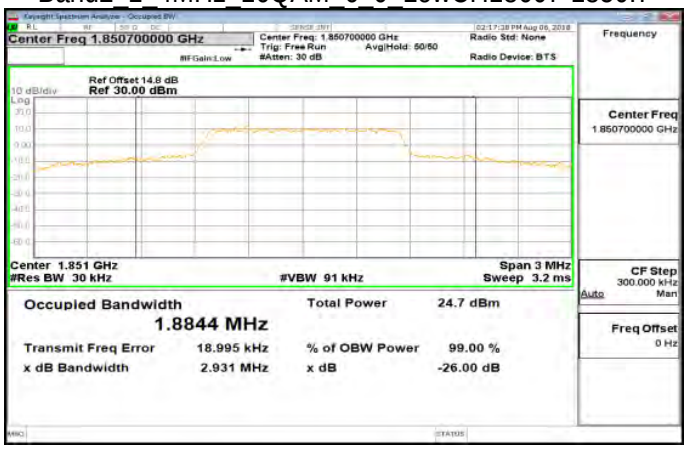


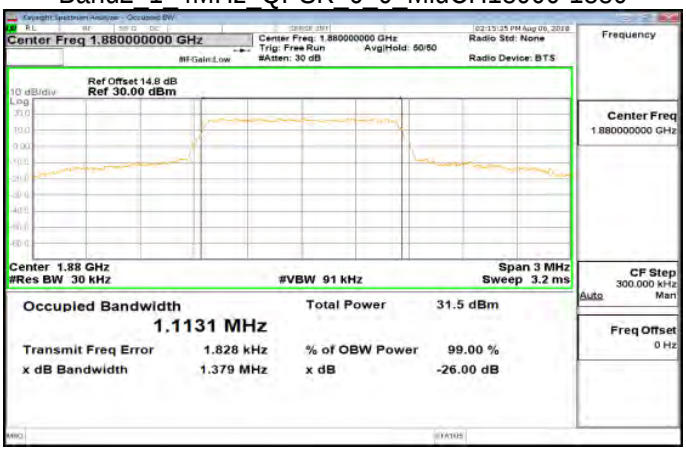
Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



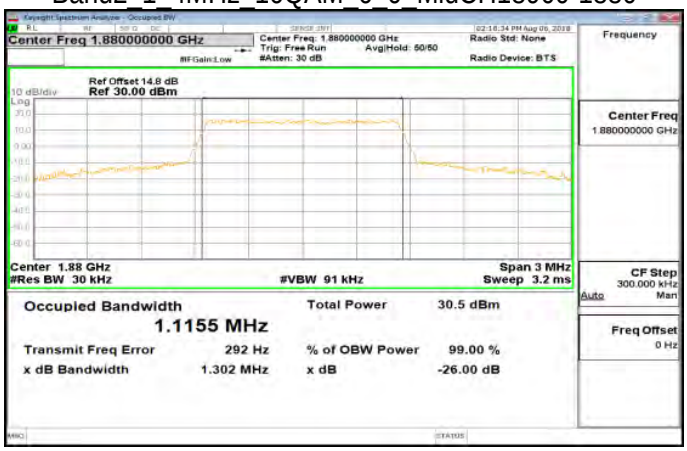
Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



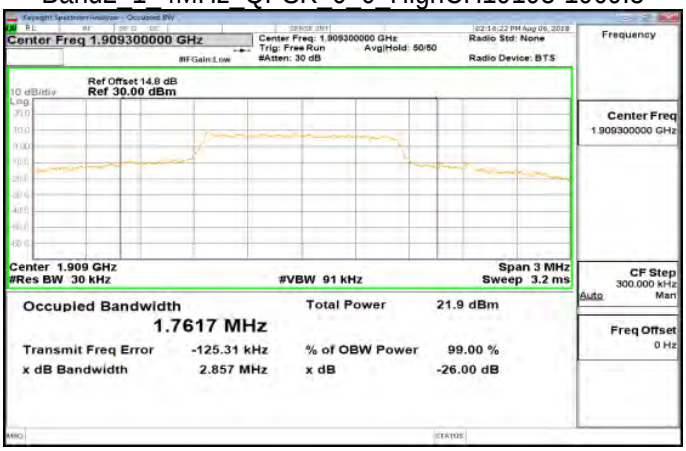
Band2_1_4MHz_QPSK_6_0_MidCH18900-1880



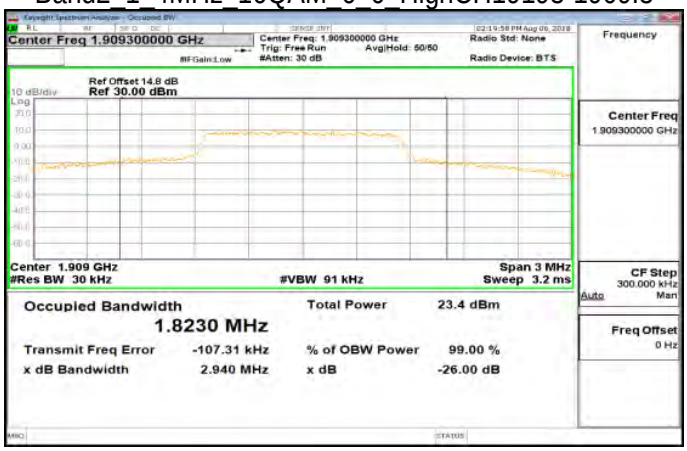
Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



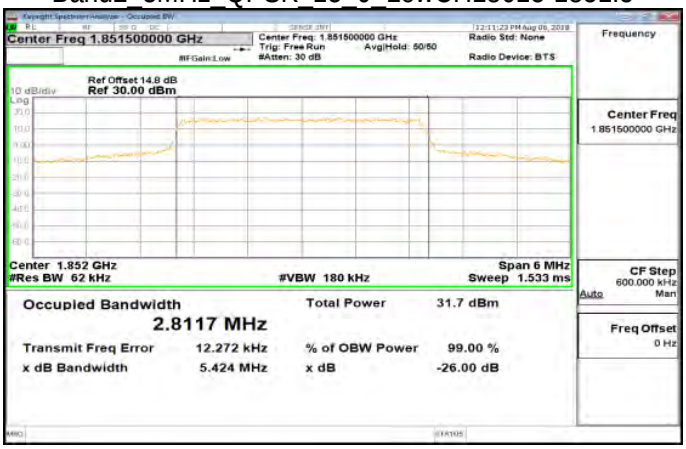
Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



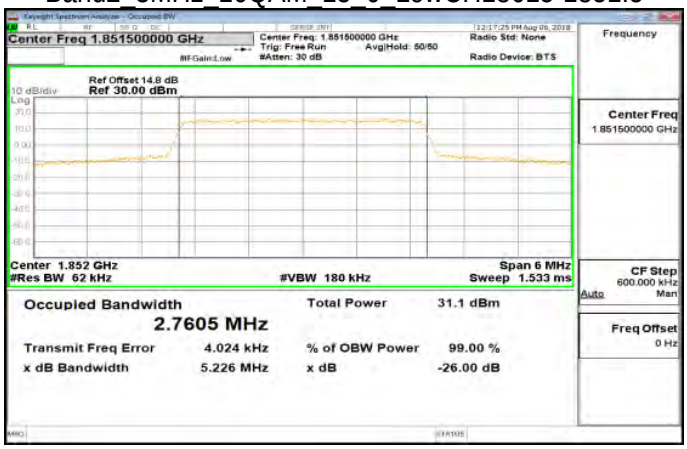
Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



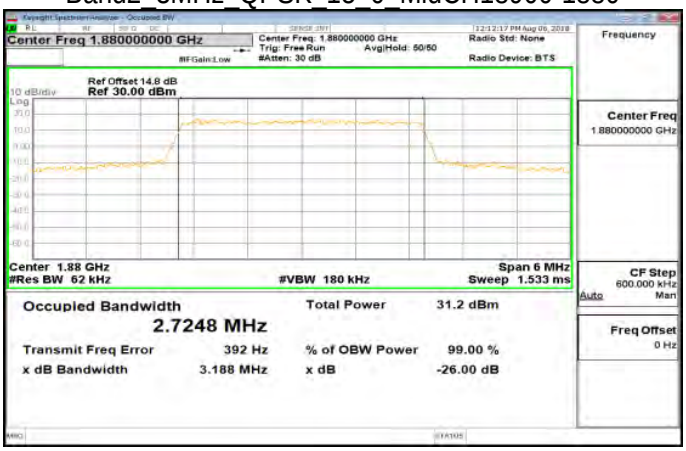
Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



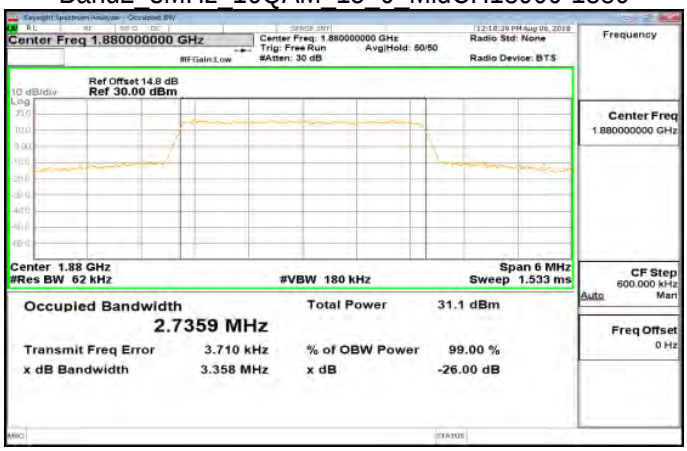
Band2_3MHz_16QAM_15_0_LowCH18615-1851.5



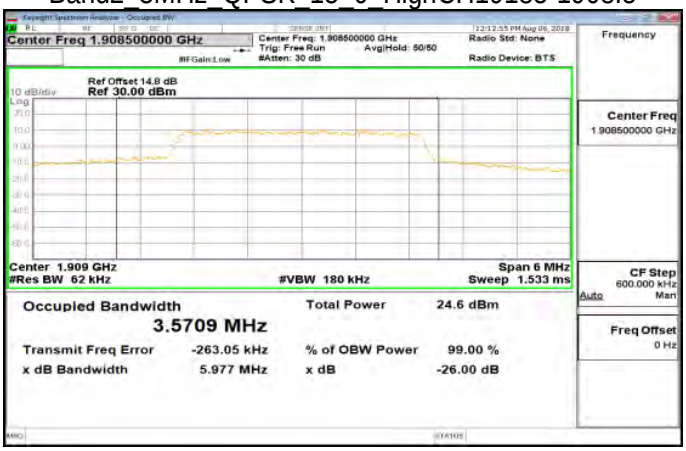
Band2_3MHz_QPSK_15_0_MidCH18900-1880



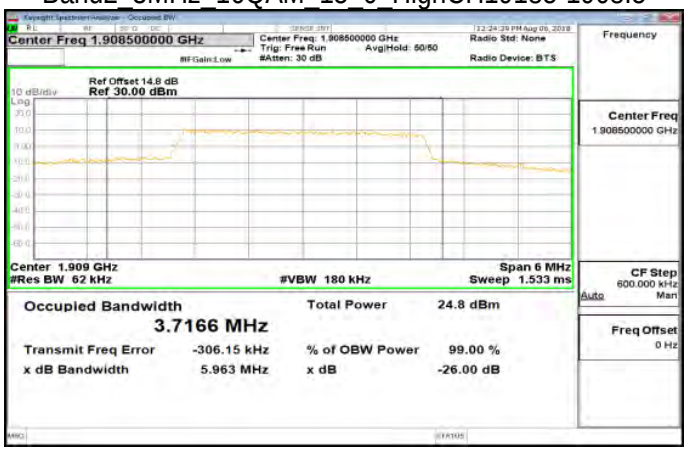
Band2_3MHz_16QAM_15_0_MidCH18900-1880



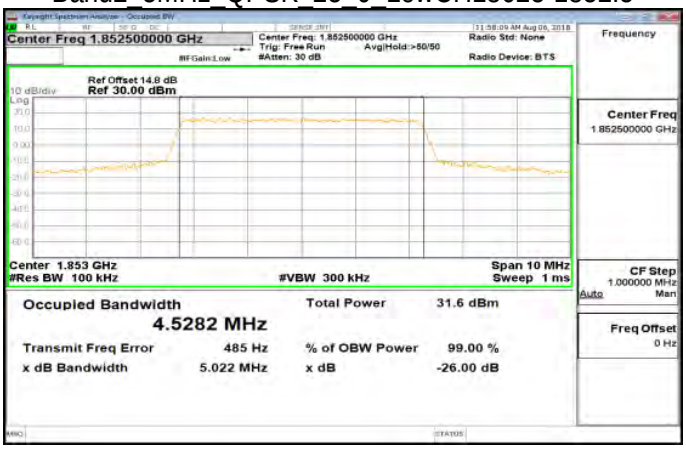
Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



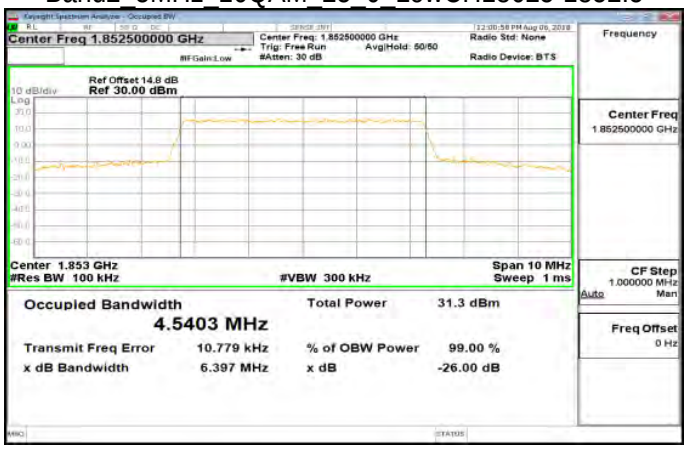
Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



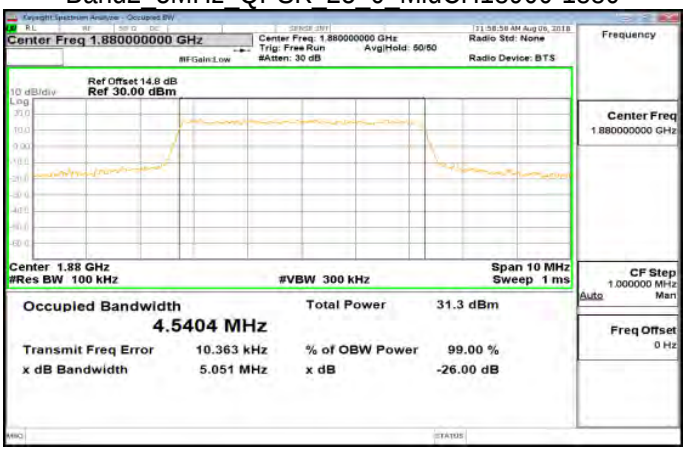
Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



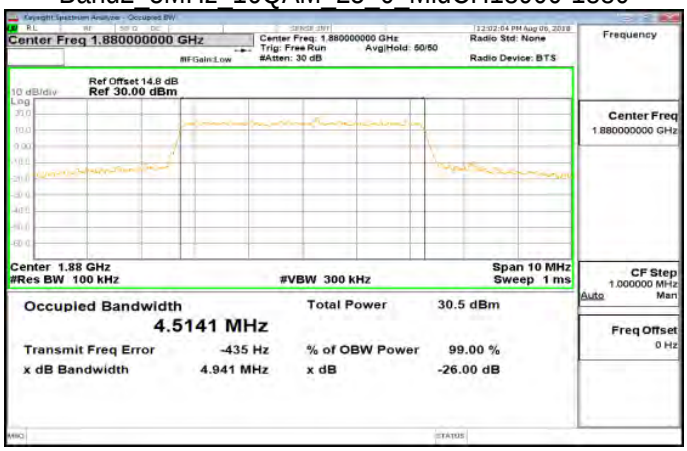
Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



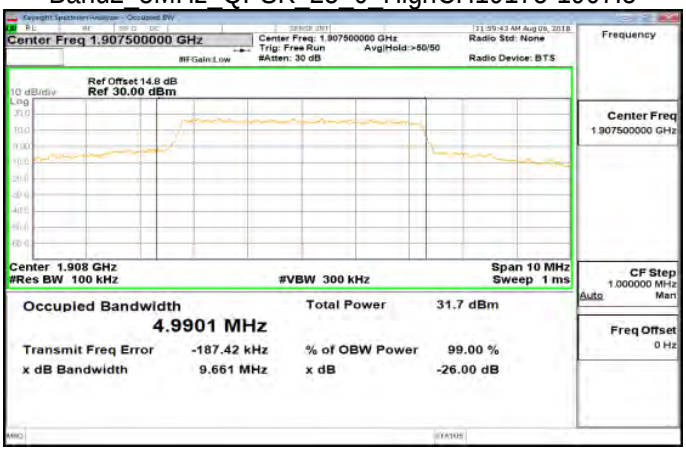
Band2_5MHz_QPSK_25_0_MidCH18900-1880



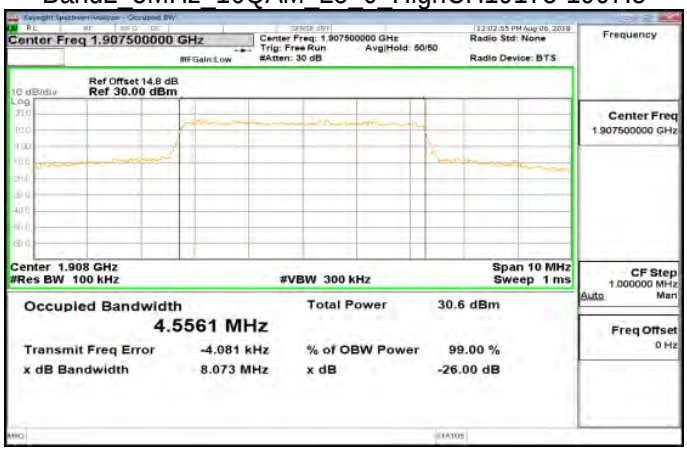
Band2_5MHz_16QAM_25_0_MidCH18900-1880



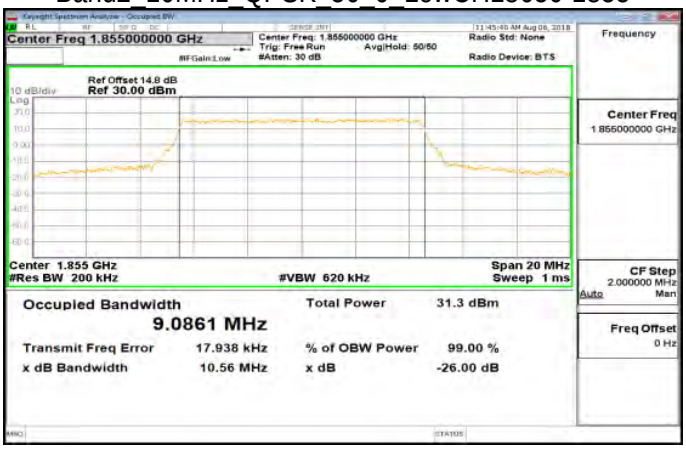
Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



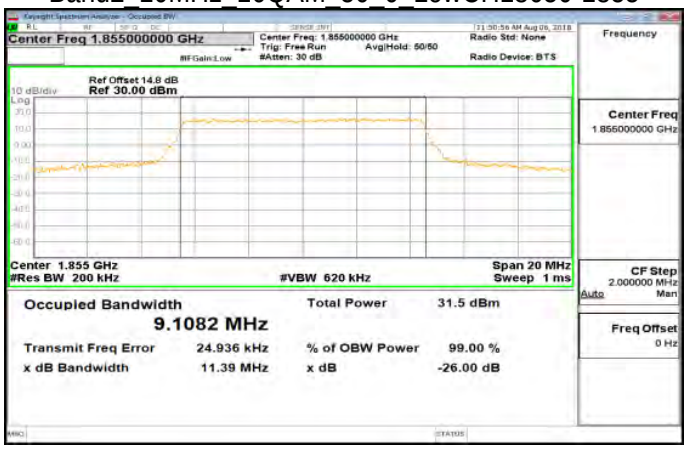
Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



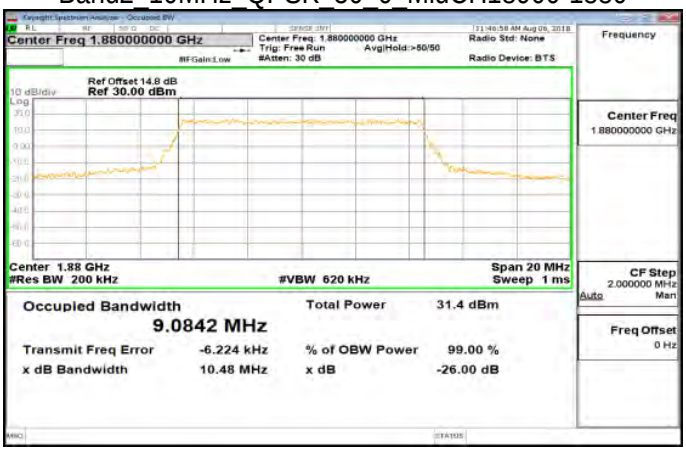
Band2_10MHz_QPSK_50_0_LowCH18650-1855



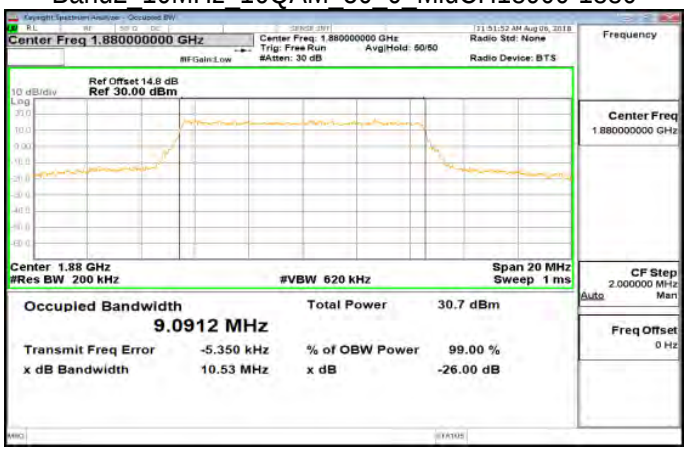
Band2_10MHz_16QAM_50_0_LowCH18650-1855



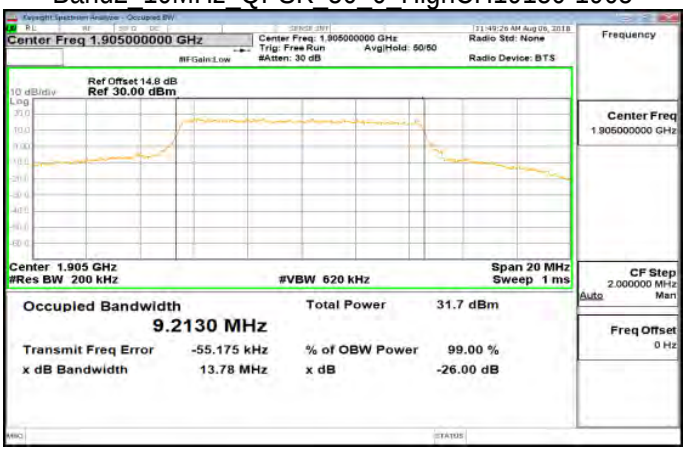
Band2_10MHz_QPSK_50_0_MidCH18900-1880



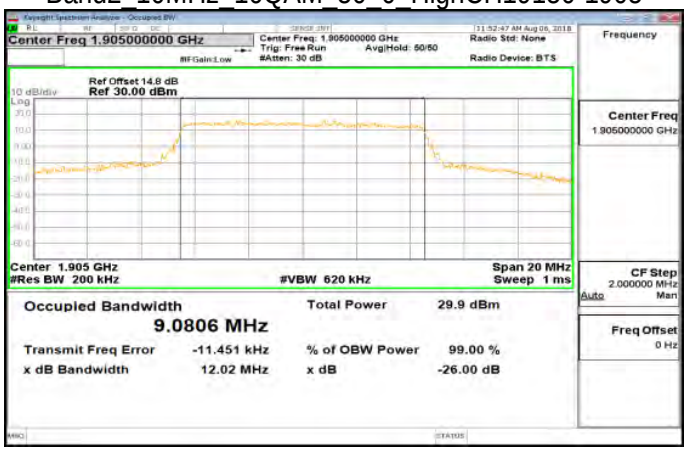
Band2_10MHz_16QAM_50_0_MidCH18900-1880



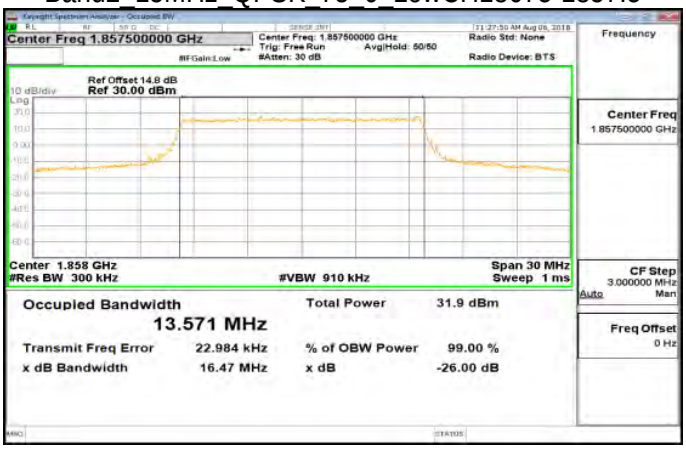
Band2_10MHz_QPSK_50_0_HighCH19150-1905



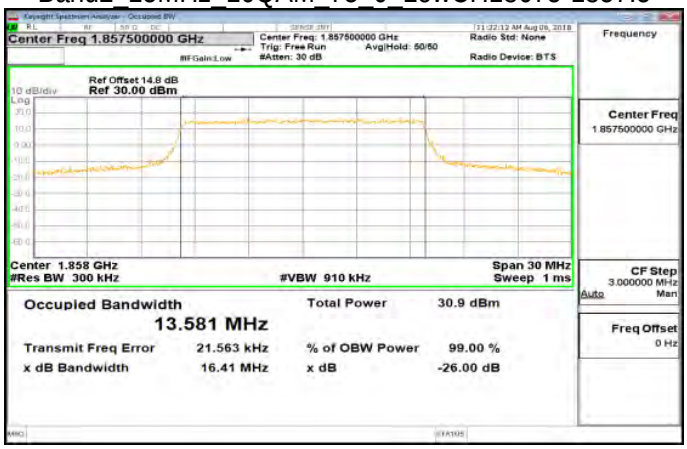
Band2_10MHz_16QAM_50_0_HighCH19150-1905



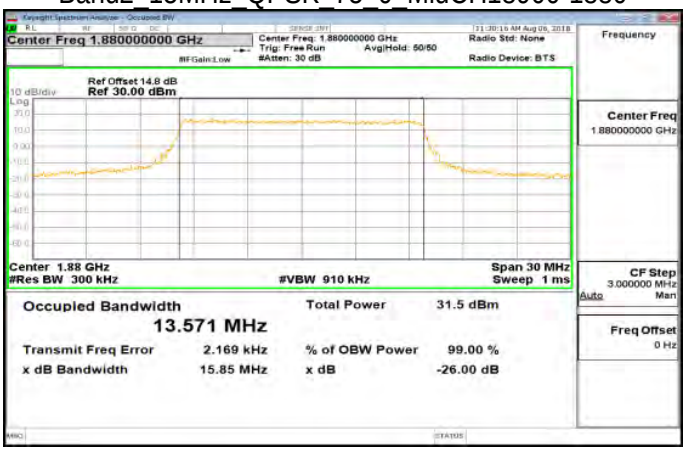
Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



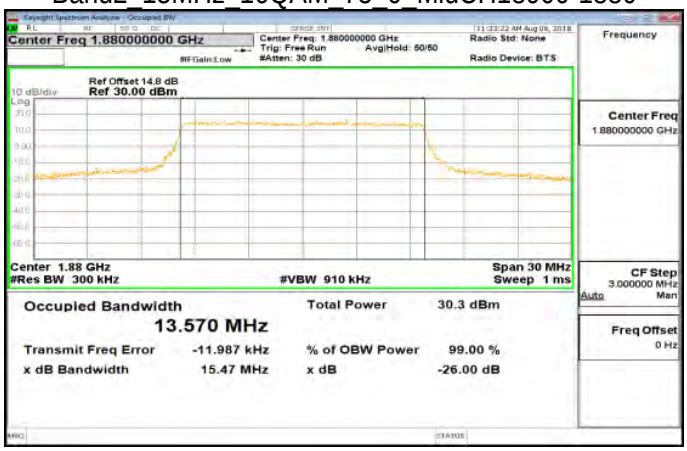
Band2_15MHz_16QAM_75_0_LowCH18675-1857.5



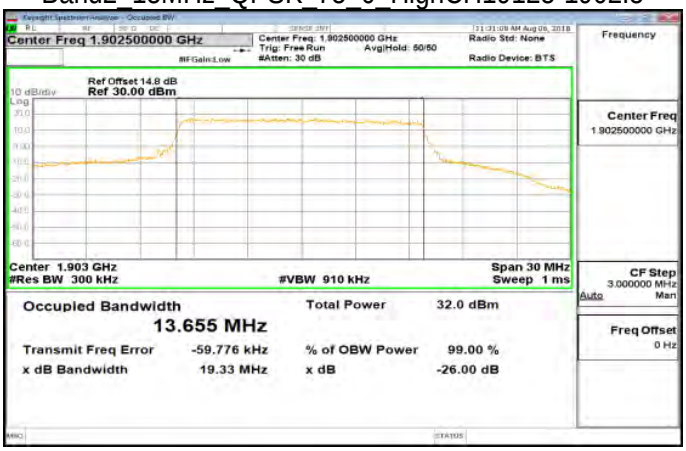
Band2_15MHz_QPSK_75_0_MidCH18900-1880



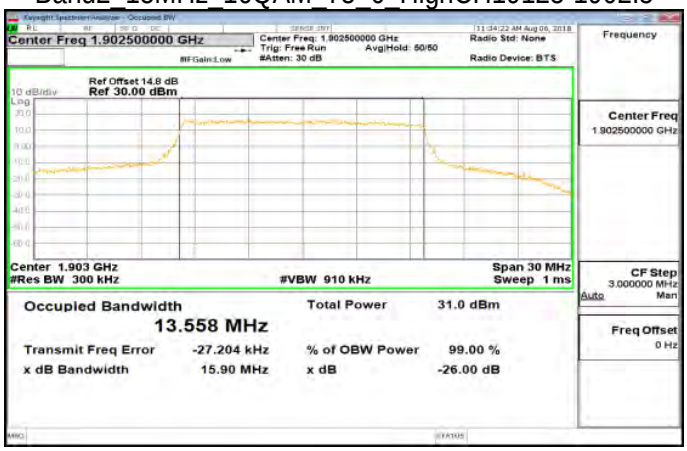
Band2_15MHz_16QAM_75_0_MidCH18900-1880



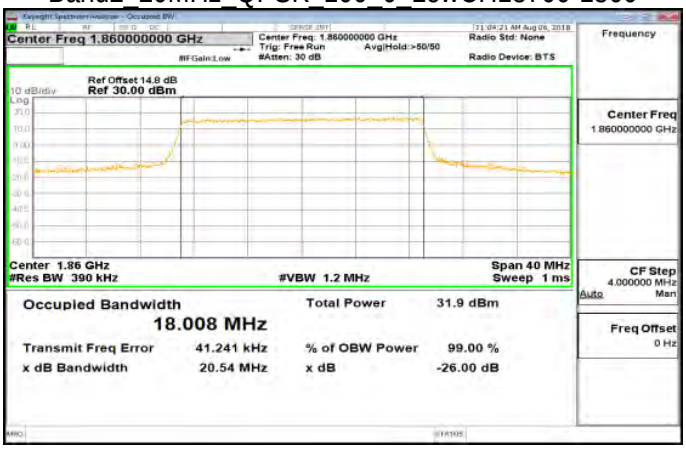
Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



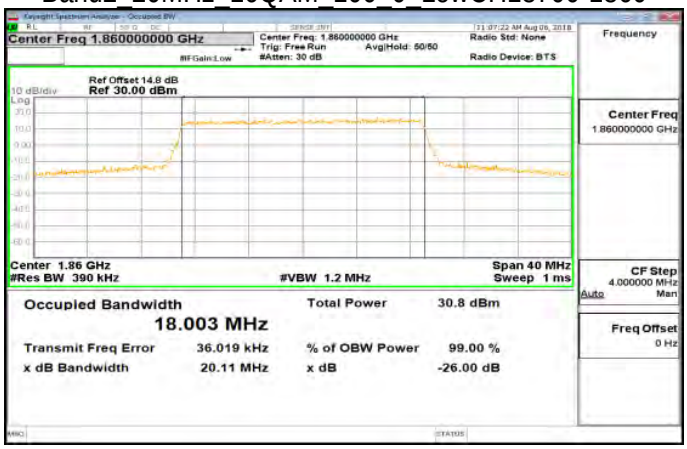
Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



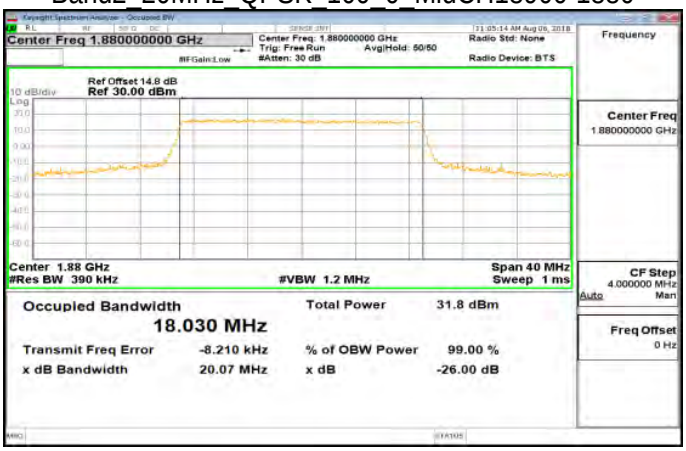
Band2_20MHz_QPSK_100_0_LowCH18700-1860



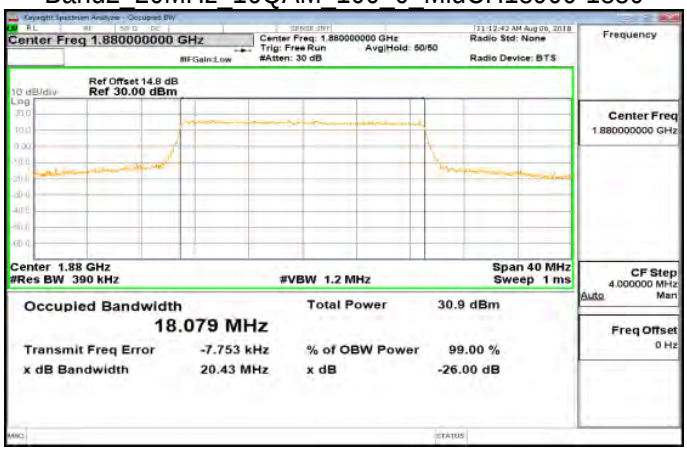
Band2_20MHz_16QAM_100_0_LowCH18700-1860



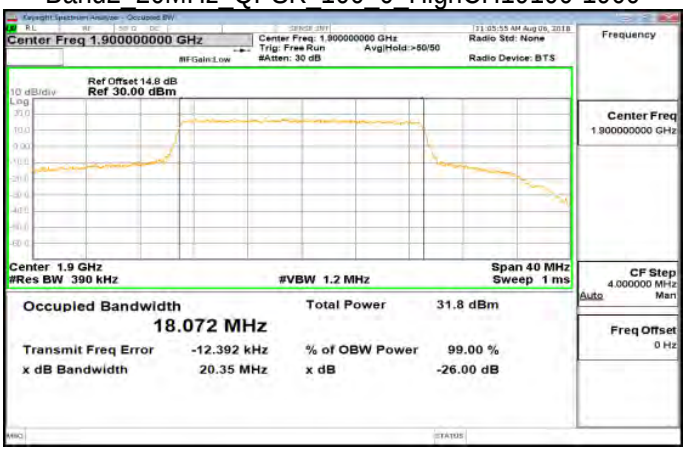
Band2_20MHz_QPSK_100_0_MidCH18900-1880



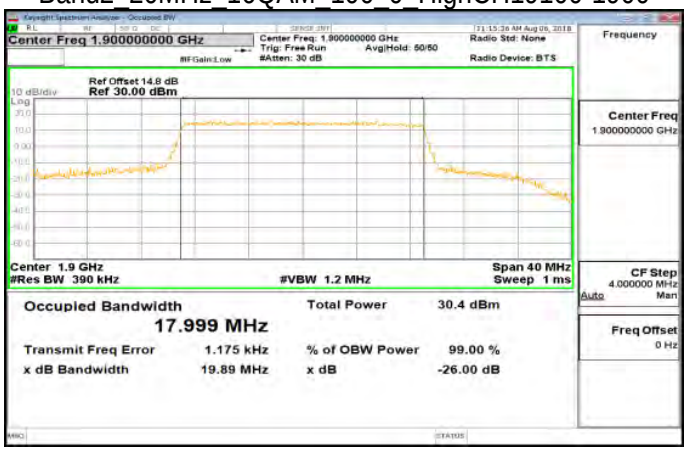
Band2_20MHz_16QAM_100_0_MidCH18900-1880



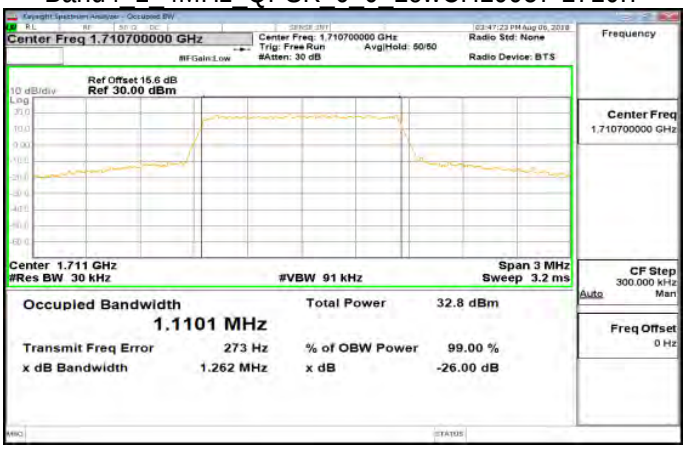
Band2_20MHz_QPSK_100_0_HighCH19100-1900



Band2_20MHz_16QAM_100_0_HighCH19100-1900



Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



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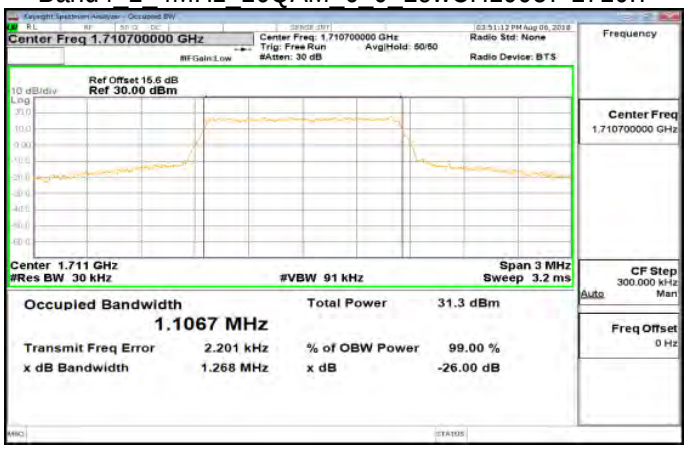
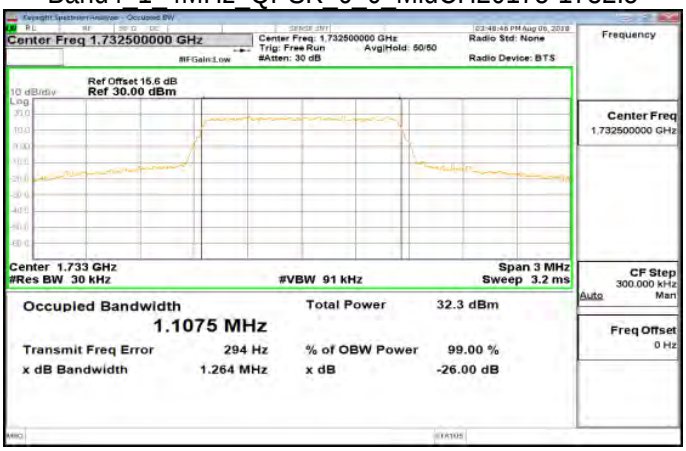
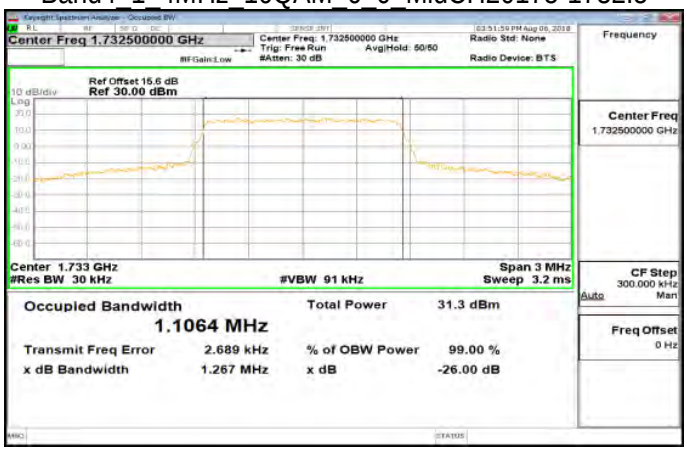


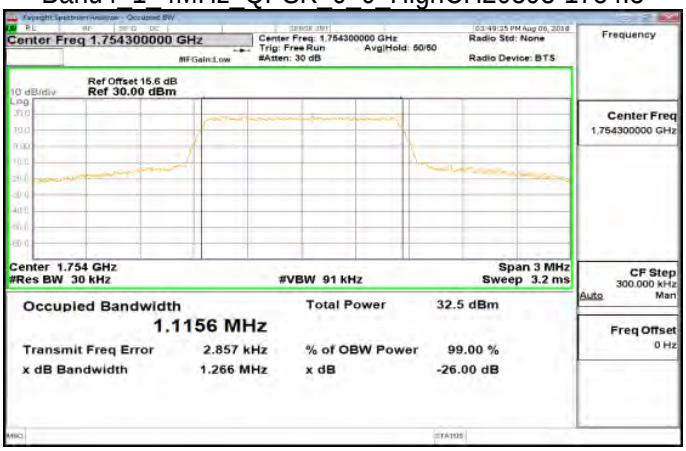
Band4_1_4MHz_QPSK_6_0_MidCH20175-1732.5



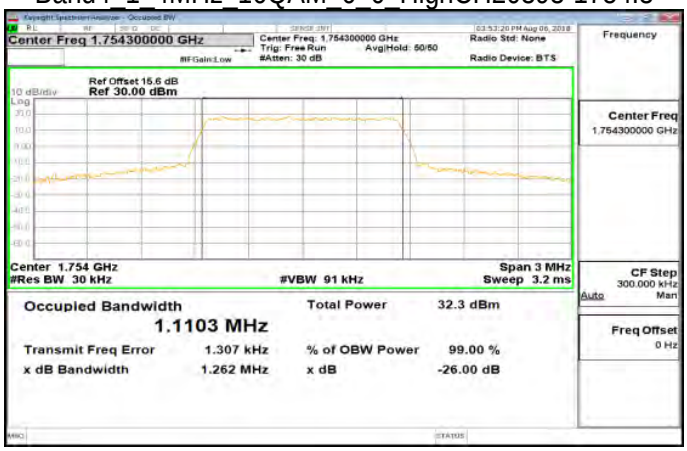
Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



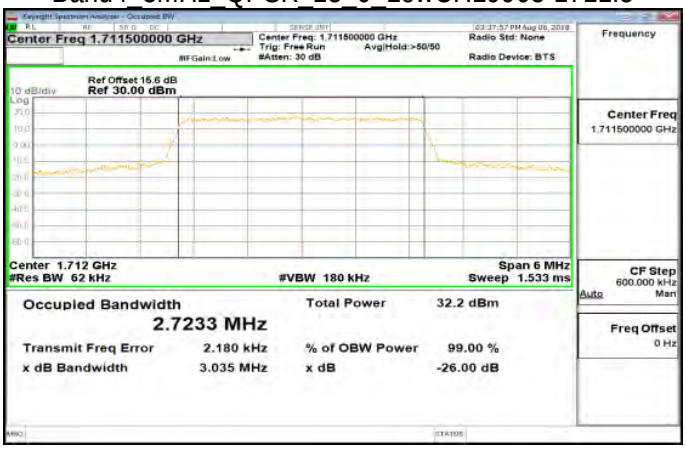
Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



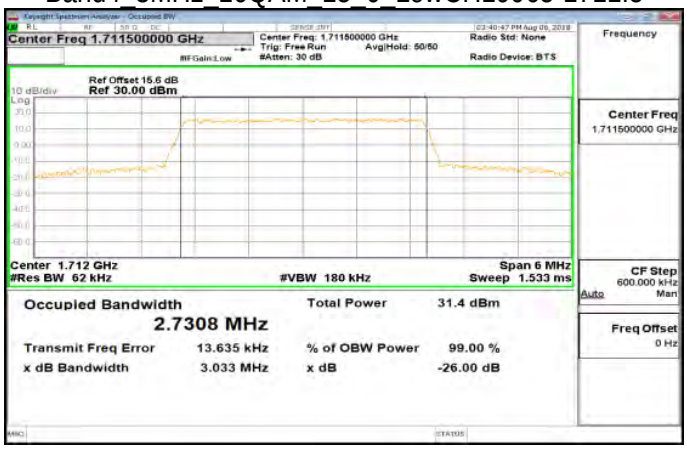
Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3



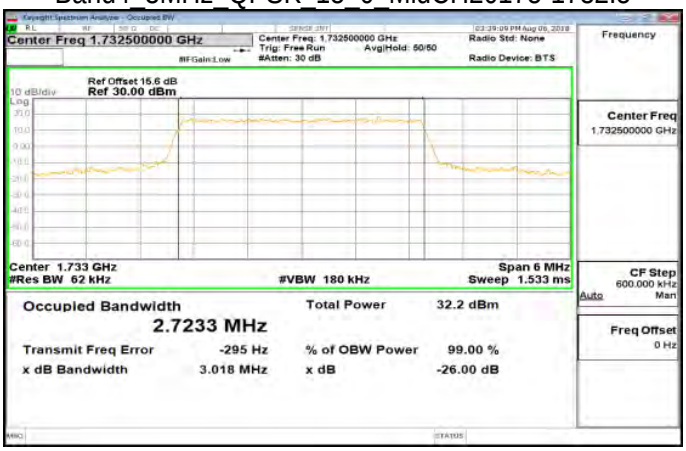
Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



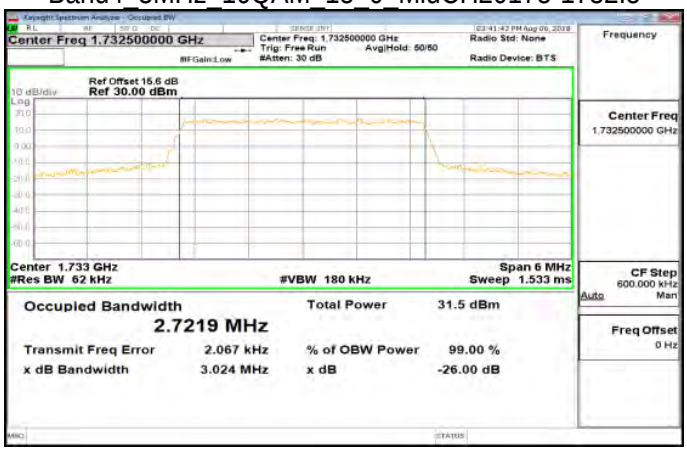
Band4_3MHz_16QAM_15_0_LowCH19965-1711.5



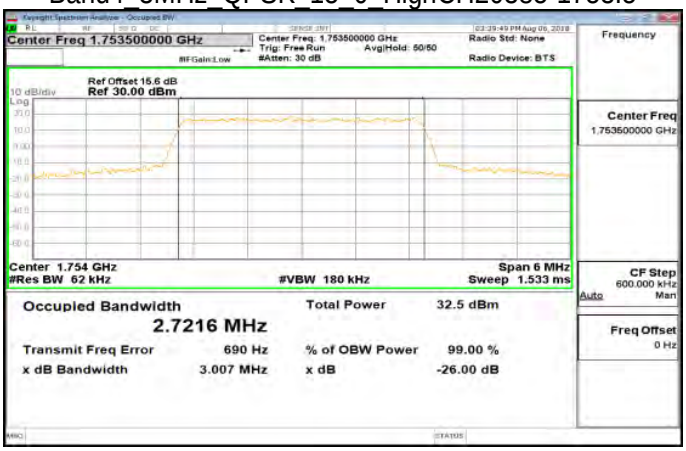
Band4_3MHz_QPSK_15_0_MidCH20175-1732.5



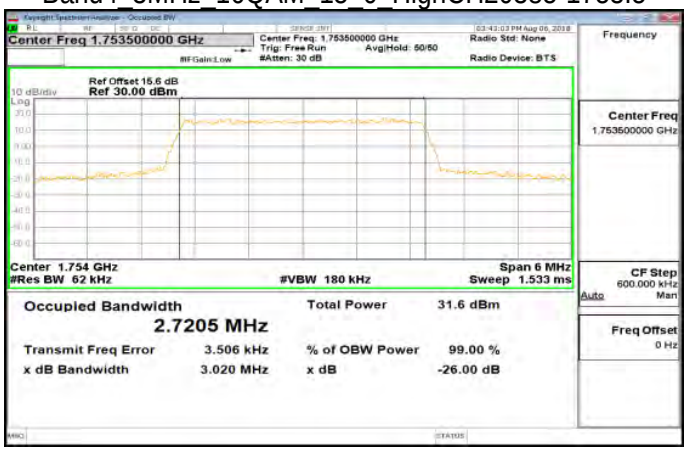
Band4_3MHz_16QAM_15_0_MidCH20175-1732.5



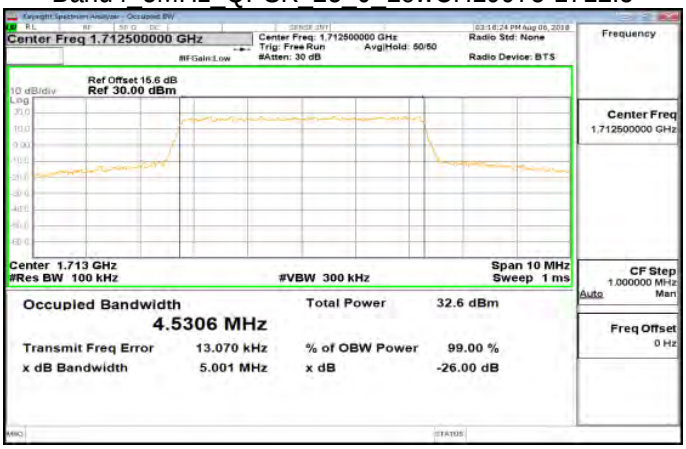
Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



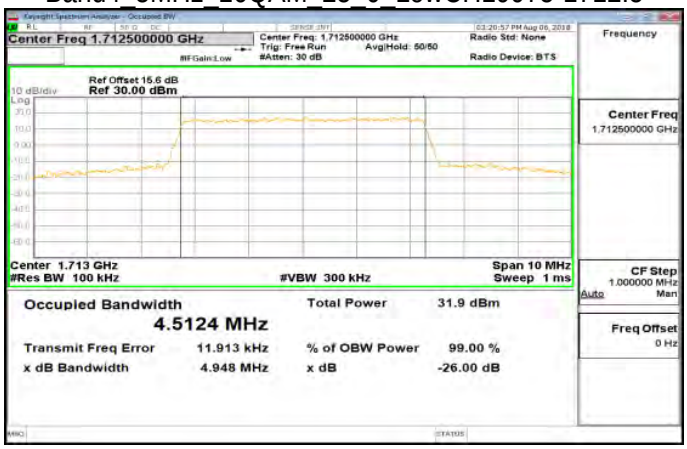
Band4_3MHz_16QAM_15_0_HighCH20385-1753.5



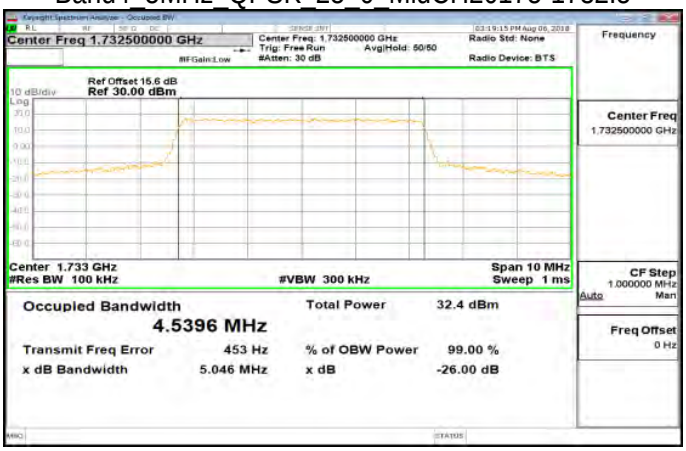
Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



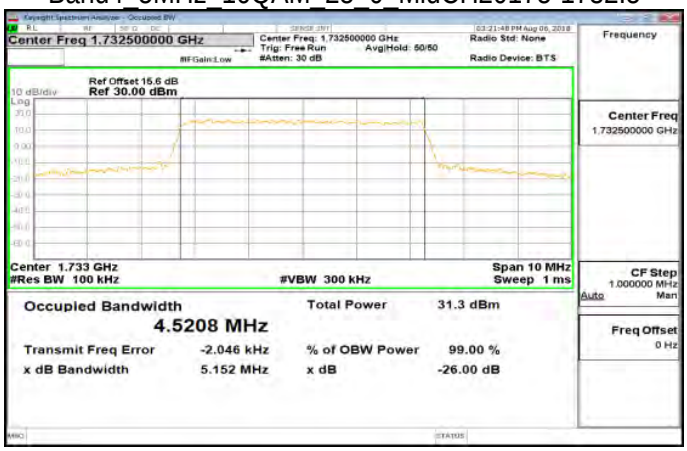
Band4_5MHz_16QAM_25_0_LowCH19975-1712.5



Band4_5MHz_QPSK_25_0_MidCH20175-1732.5



Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



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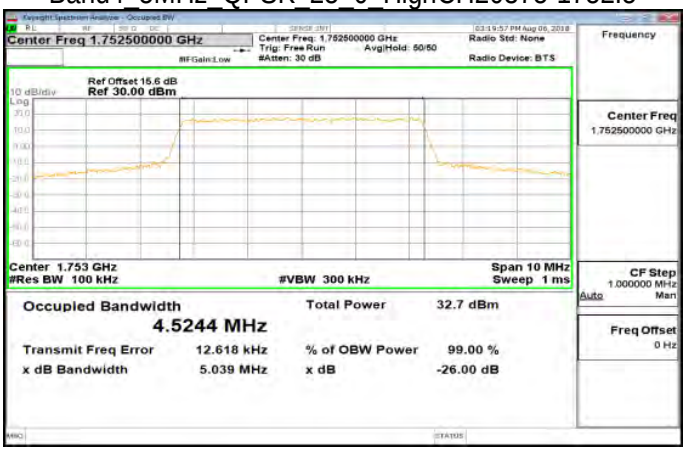
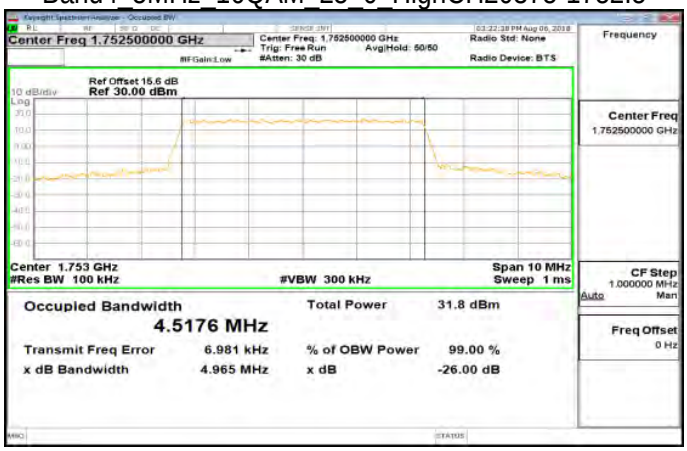
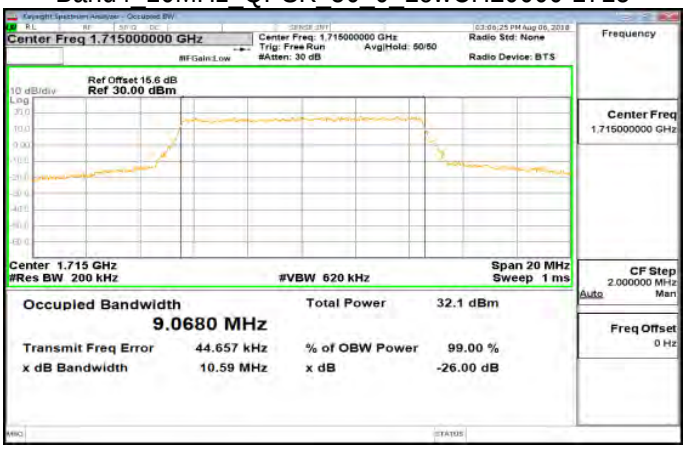


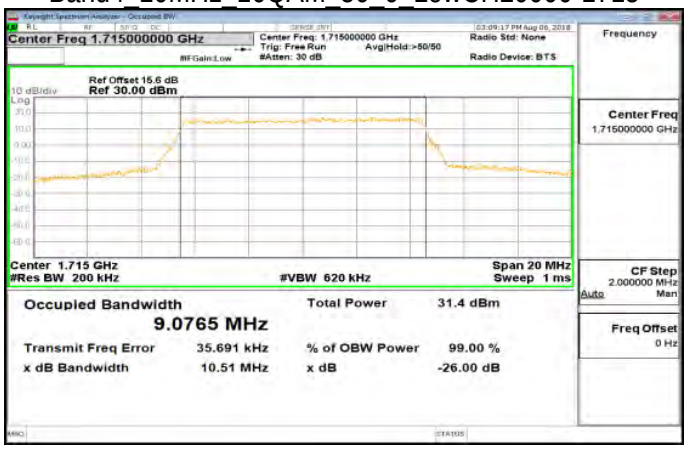
Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



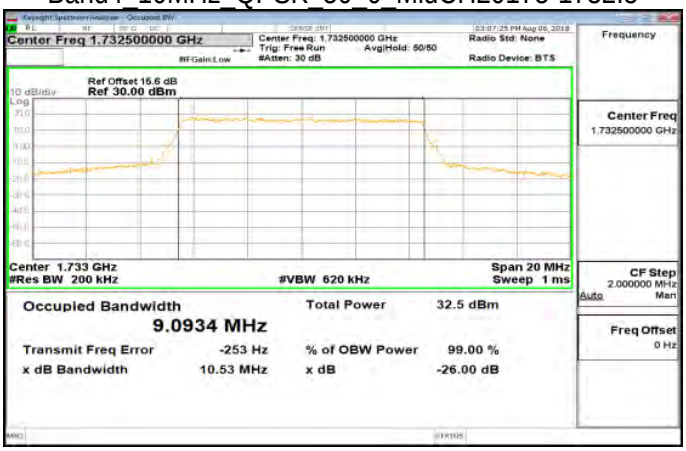
Band4_10MHz_QPSK_50_0_LowCH20000-1715



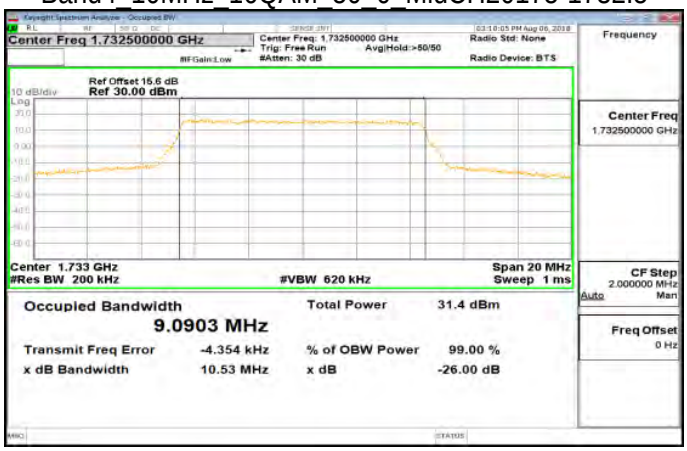
Band4_10MHz_16QAM_50_0_LowCH20000-1715



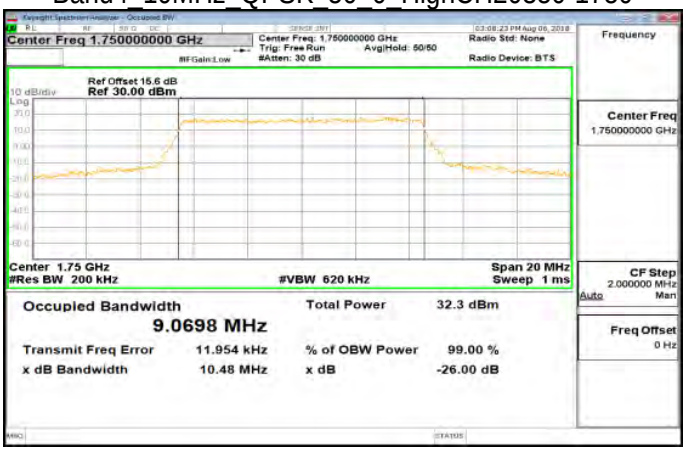
Band4_10MHz_QPSK_50_0_MidCH20175-1732.5



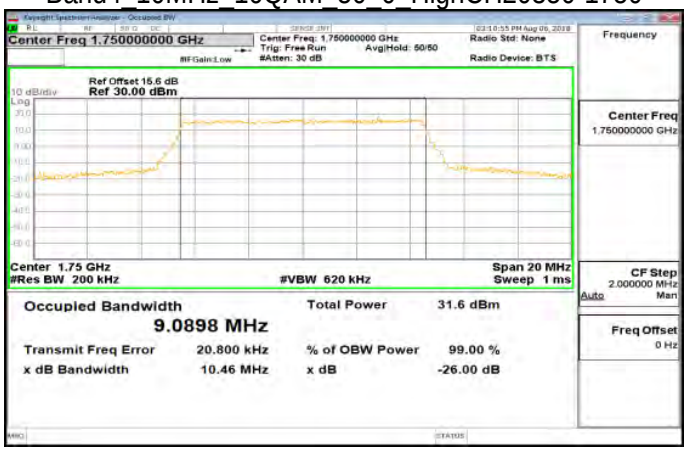
Band4_10MHz_16QAM_50_0_MidCH20175-1732.5



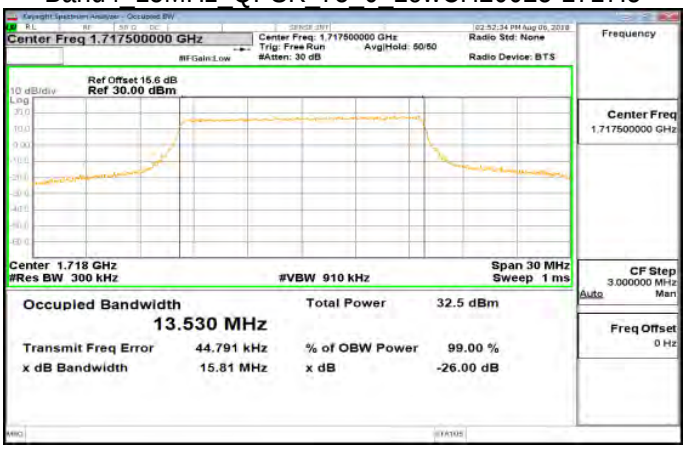
Band4_10MHz_QPSK_50_0_HighCH20350-1750



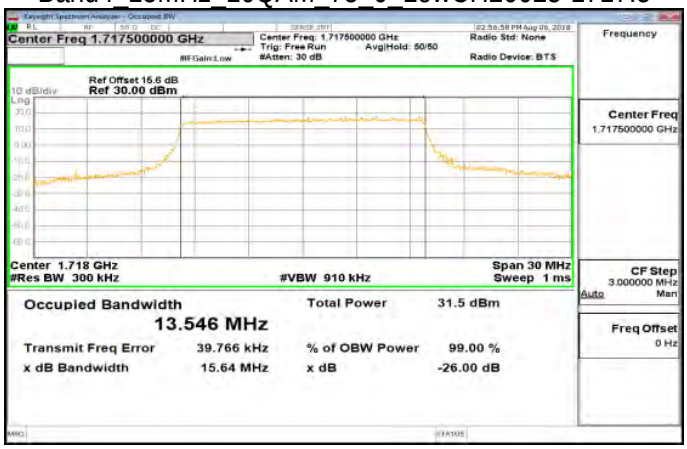
Band4_10MHz_16QAM_50_0_HighCH20350-1750



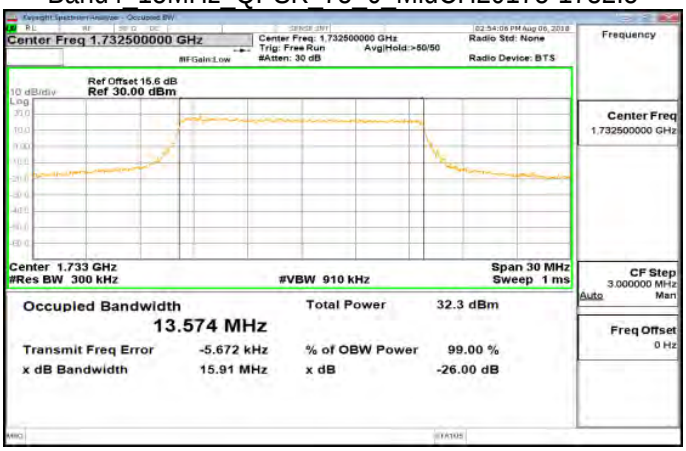
Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



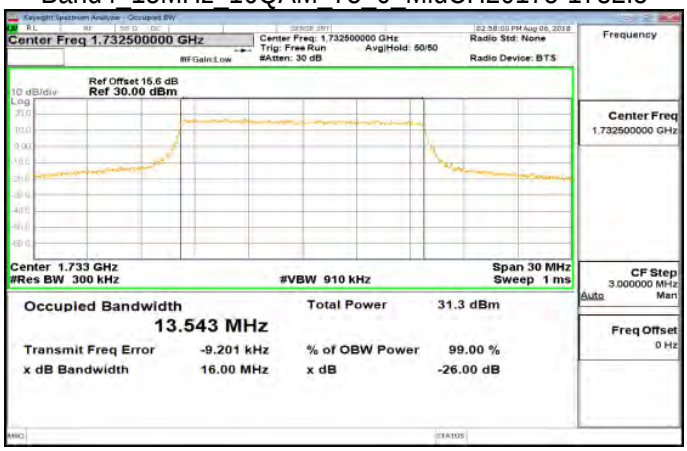
Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



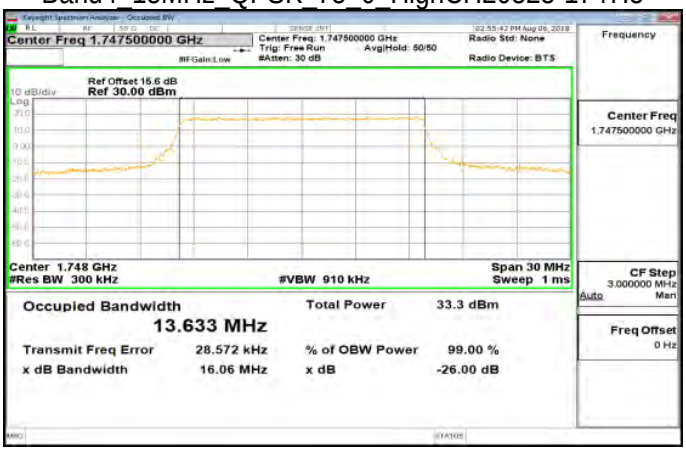
Band4_15MHz_QPSK_75_0_MidCH20175-1732.5



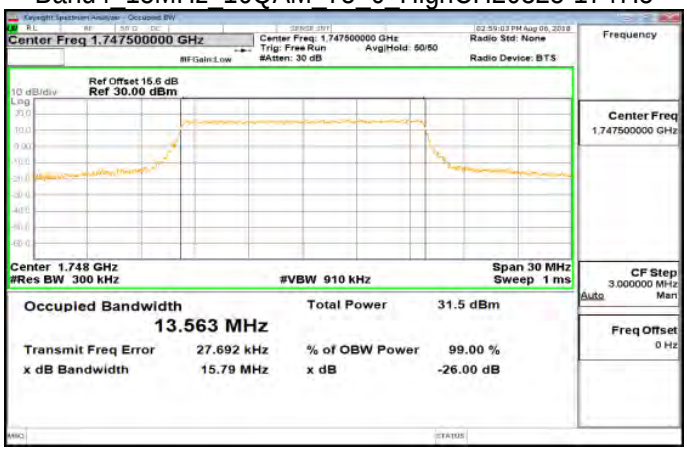
Band4_15MHz_16QAM_75_0_MidCH20175-1732.5



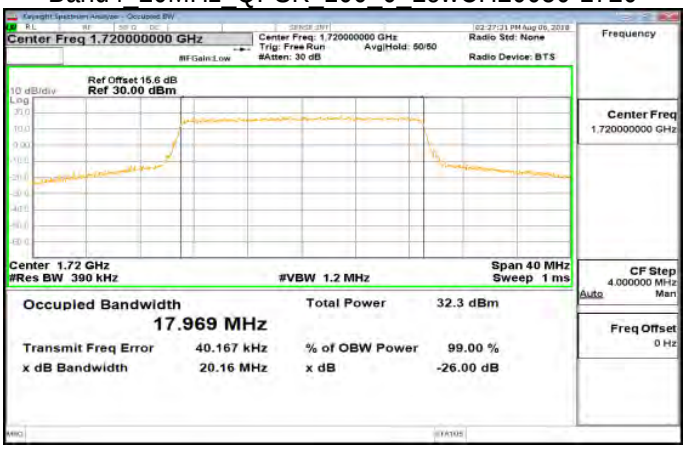
Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



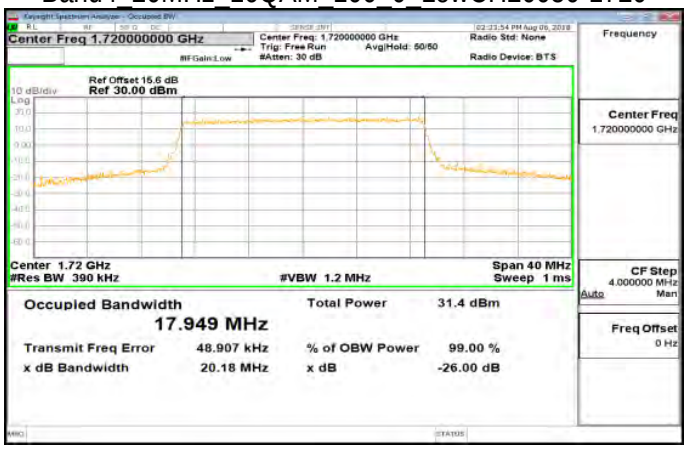
Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



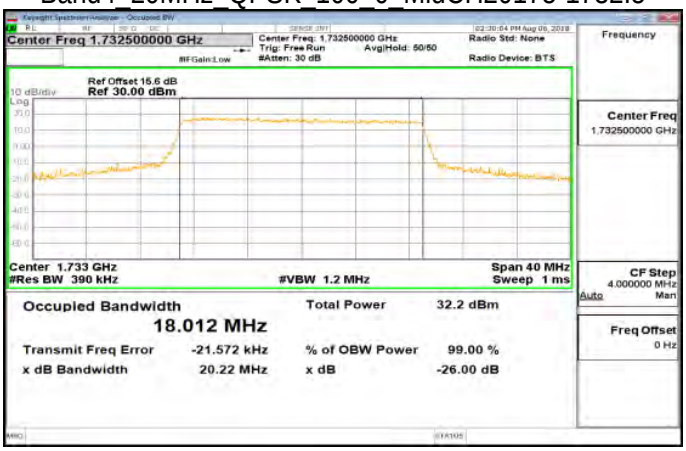
Band4_20MHz_QPSK_100_0_LowCH20050-1720



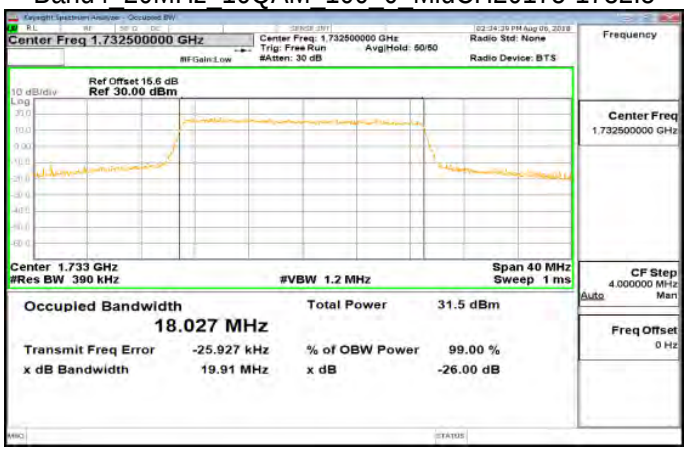
Band4_20MHz_16QAM_100_0_LowCH20050-1720



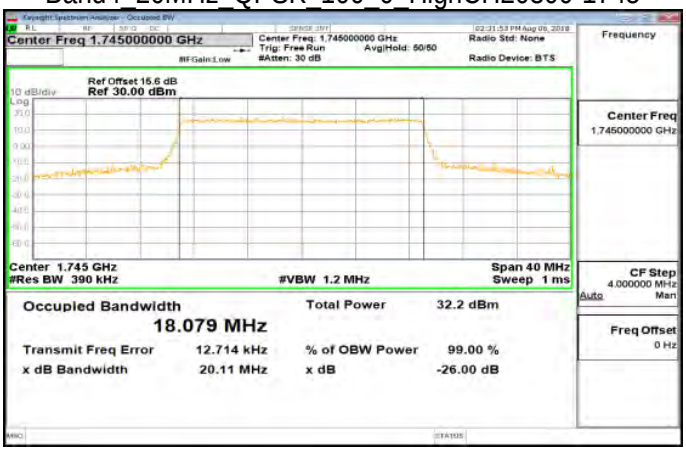
Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



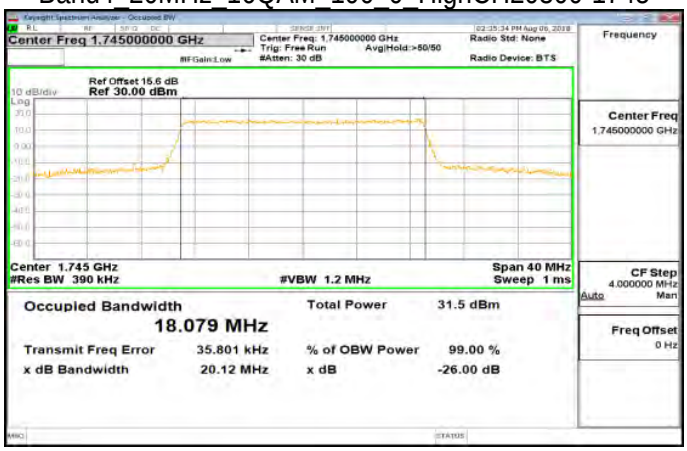
Band4_20MHz_16QAM_100_0_MidCH20175-1732.5



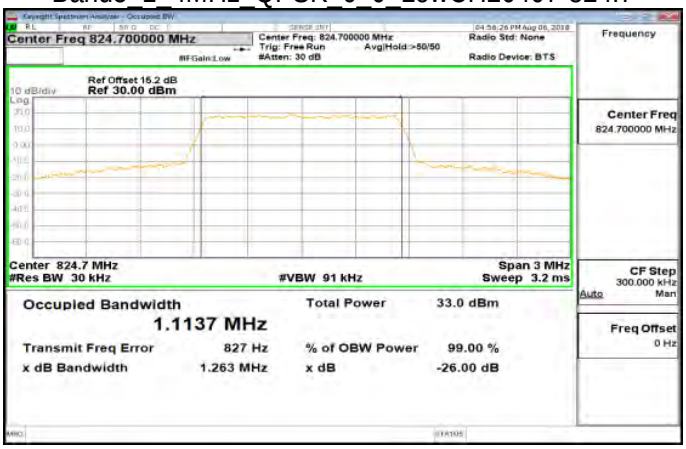
Band4_20MHz_QPSK_100_0_HighCH20300-1745



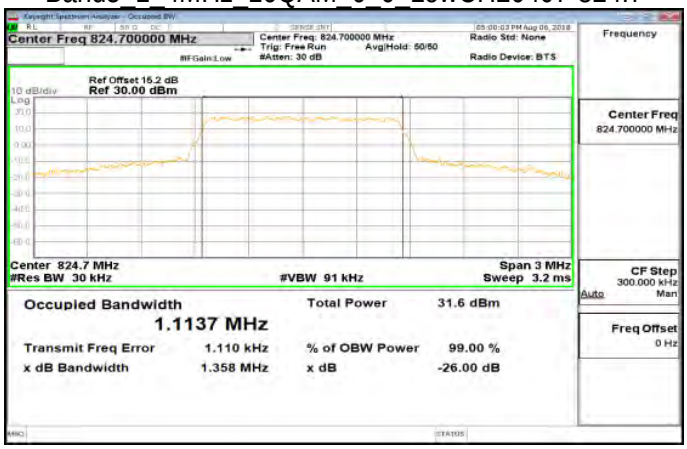
Band4_20MHz_16QAM_100_0_HighCH20300-1745



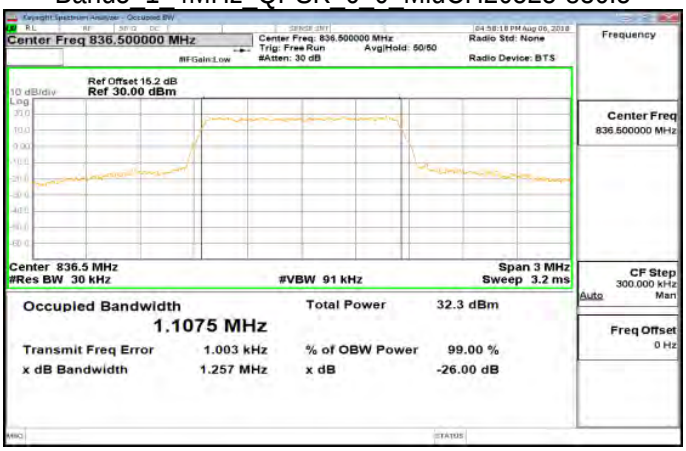
Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7



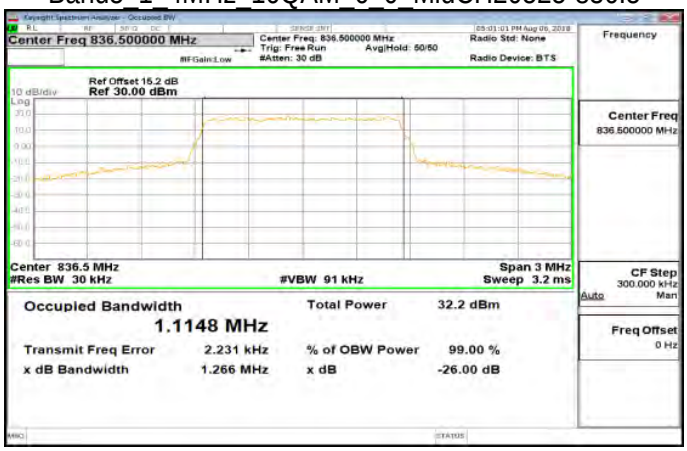
Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7



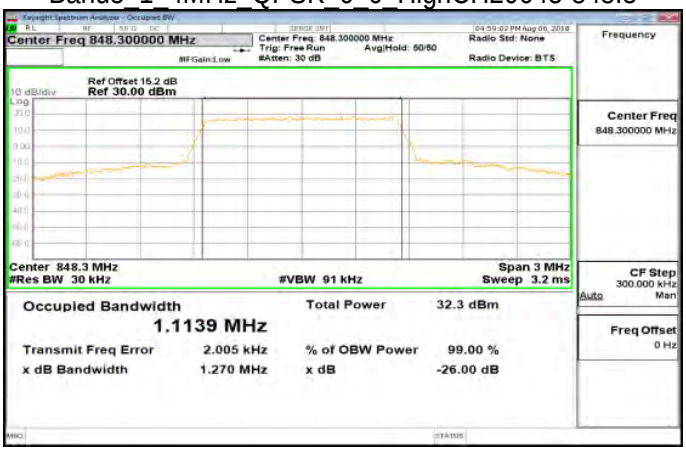
Band5_1_4MHz_QPSK_6_0_MidCH20525-836.5



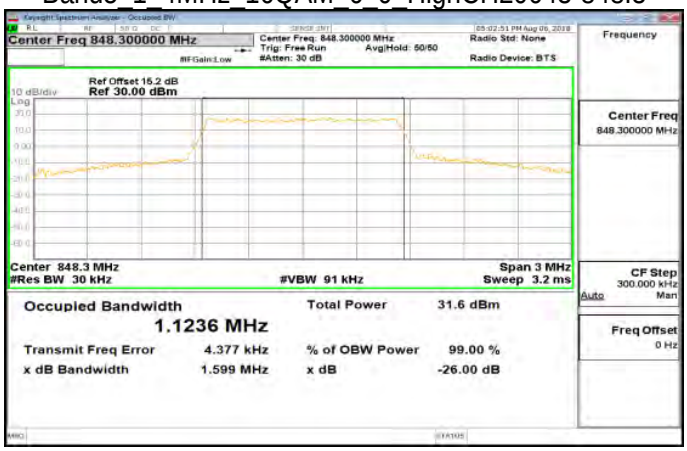
Band5_1_4MHz_16QAM_6_0_MidCH20525-836.5



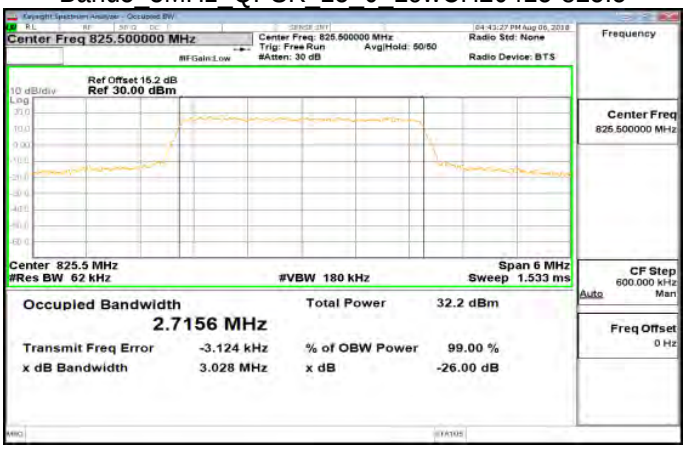
Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



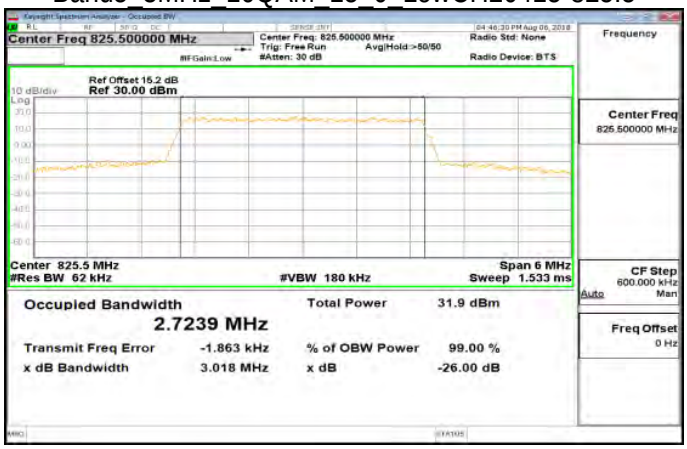
Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



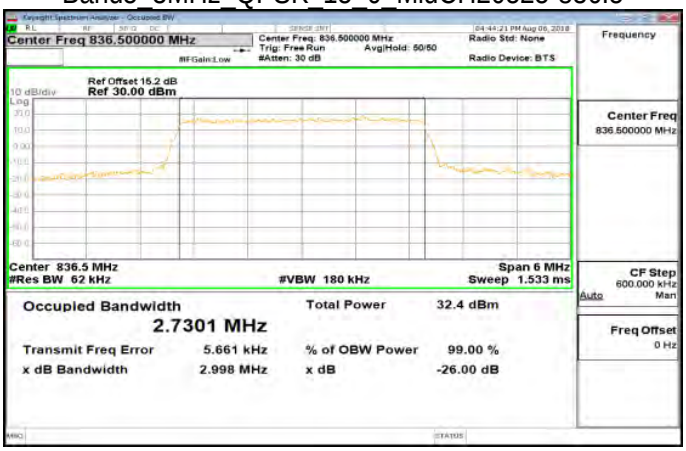
Band5_3MHz_QPSK_15_0_LowCH20415-825.5



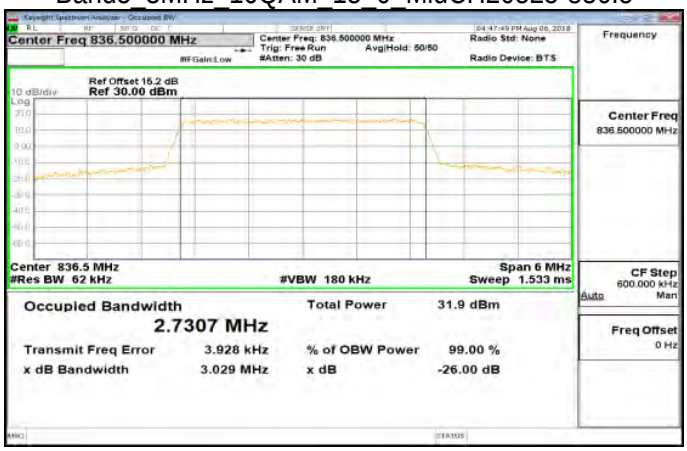
Band5_3MHz_16QAM_15_0_LowCH20415-825.5



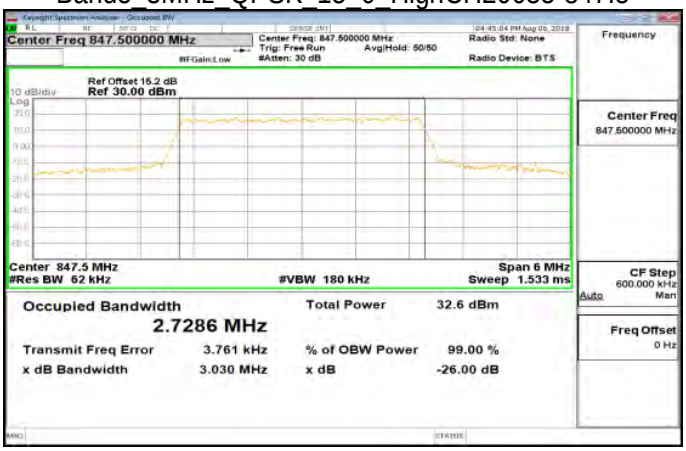
Band5_3MHz_QPSK_15_0_MidCH20525-836.5



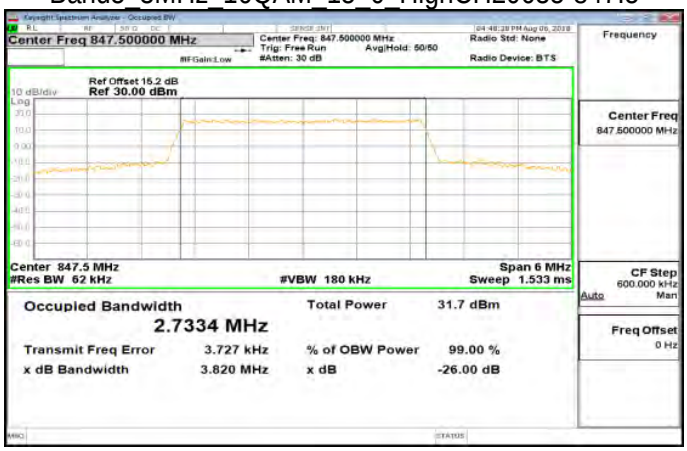
Band5_3MHz_16QAM_15_0_MidCH20525-836.5



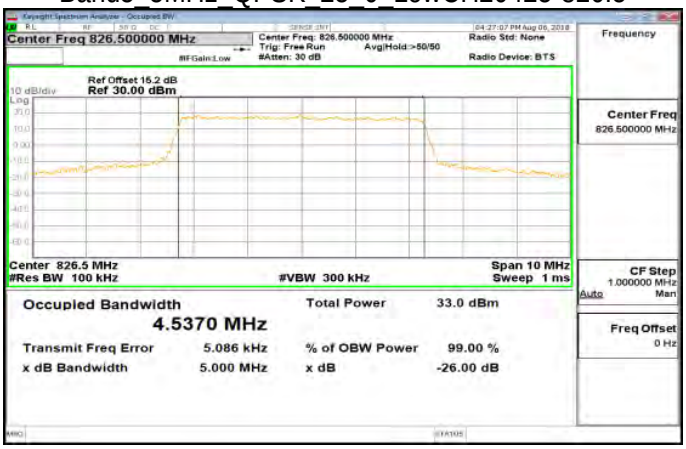
Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5



Band5_5MHz_QPSK_25_0_LowCH20425-826.5



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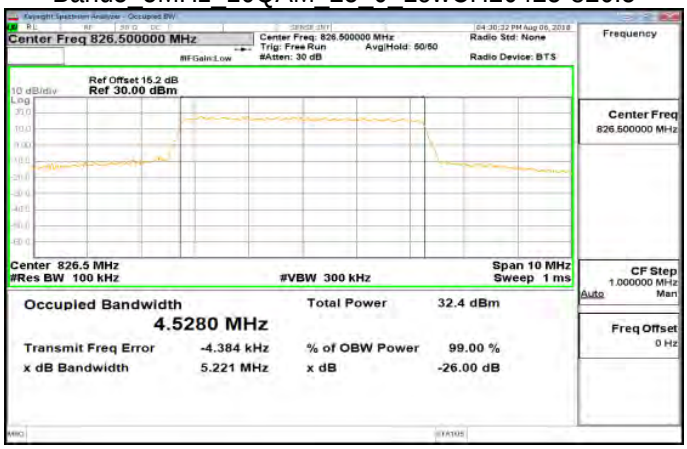

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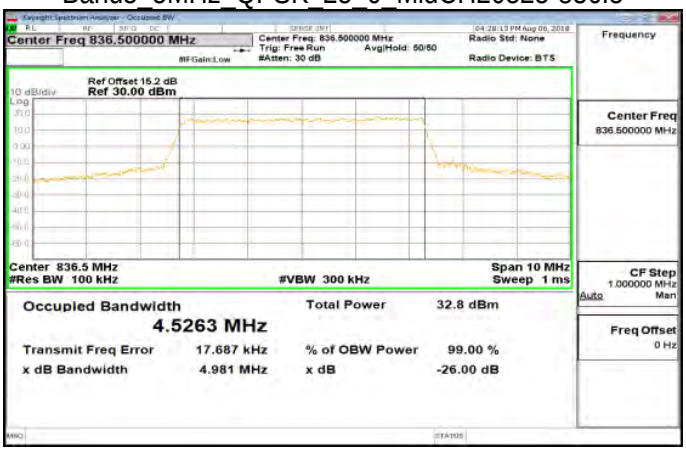

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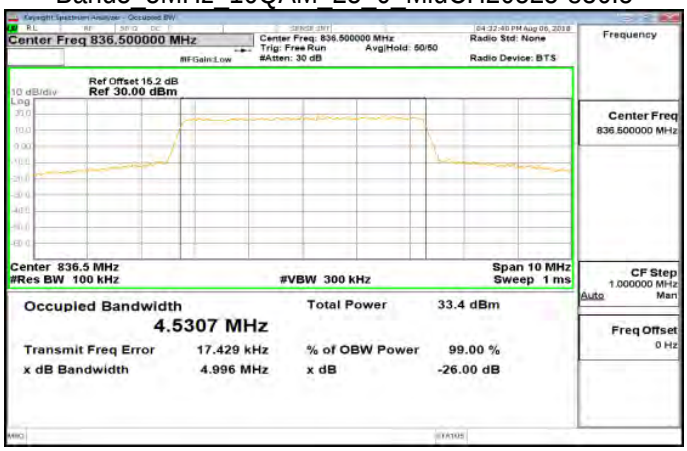

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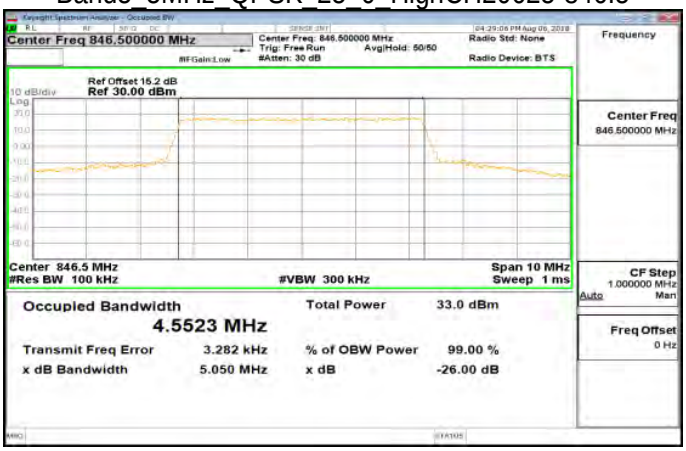

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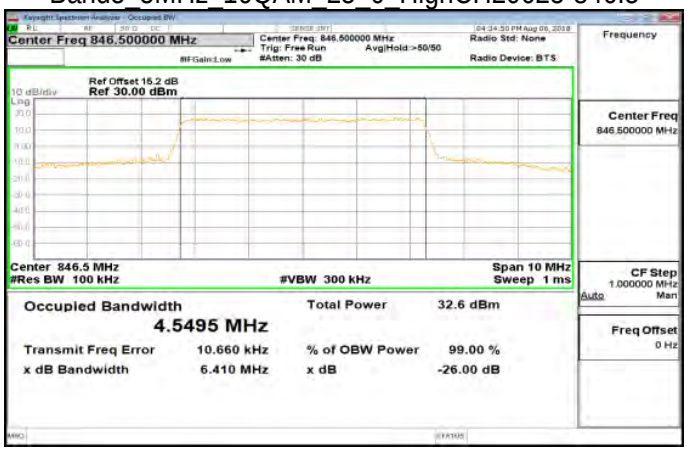
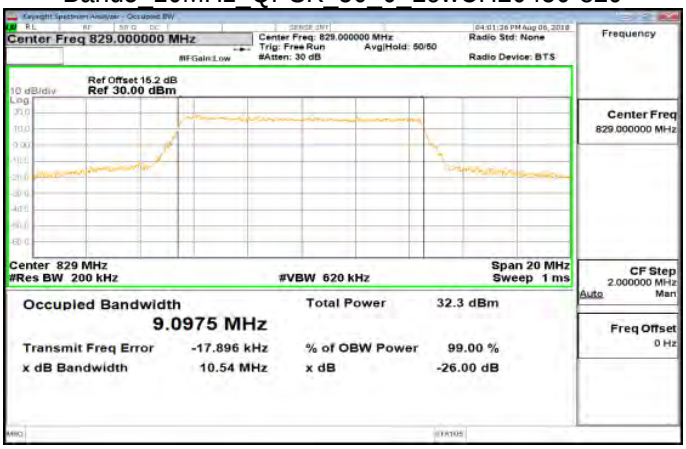
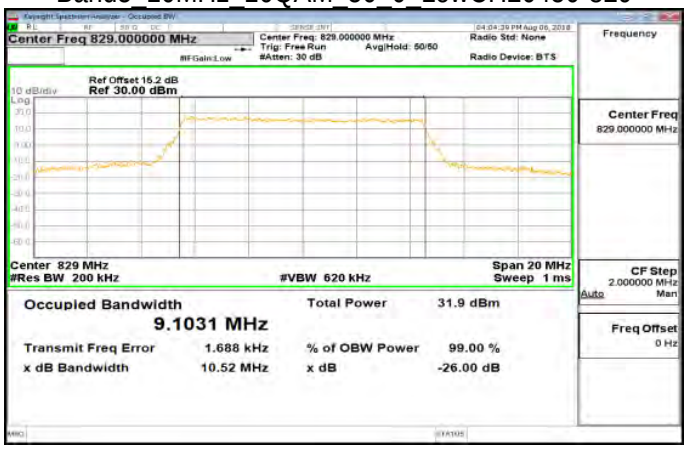


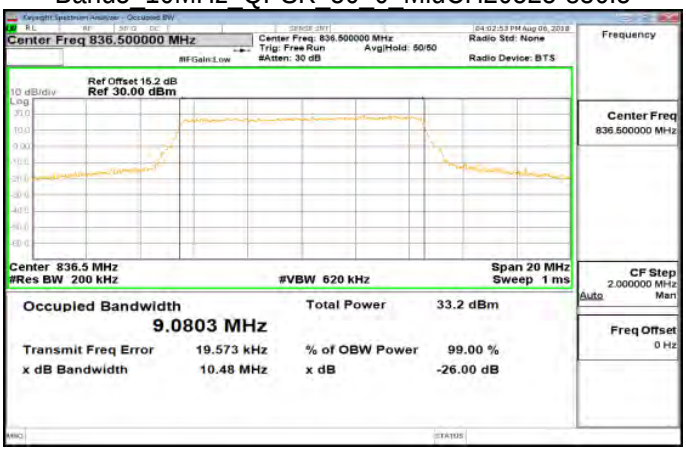
Band5_10MHz_QPSK_50_0_LowCH20450-829



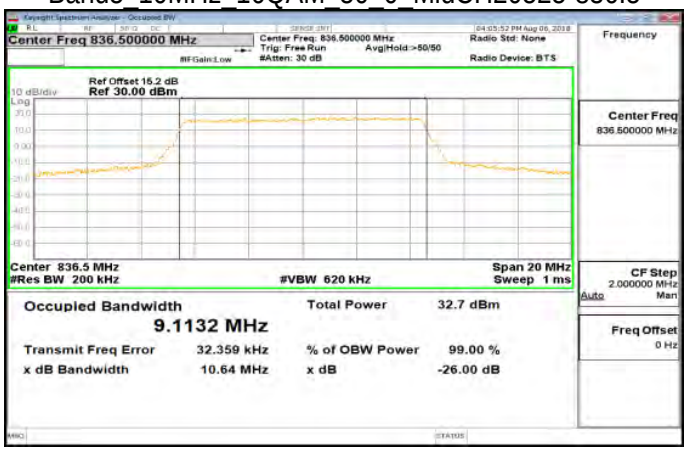
Band5_10MHz_16QAM_50_0_LowCH20450-829



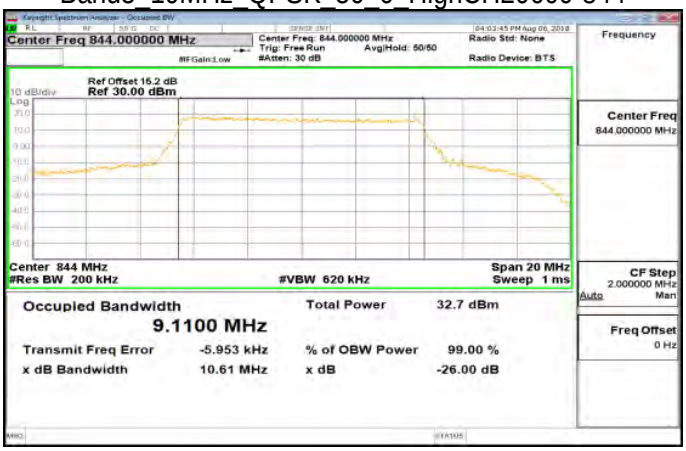
Band5_10MHz_QPSK_50_0_MidCH20525-836.5



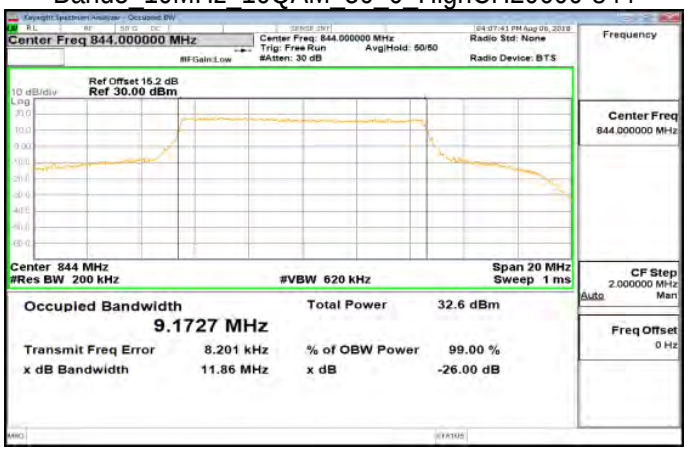
Band5_10MHz_16QAM_50_0_MidCH20525-836.5



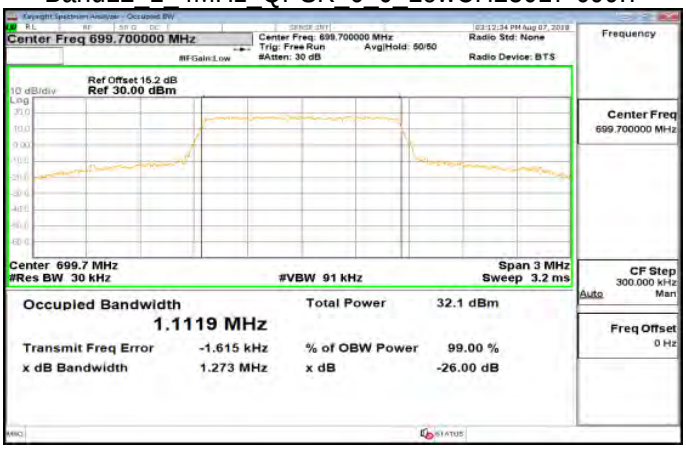
Band5_10MHz_QPSK_50_0_HighCH20600-844



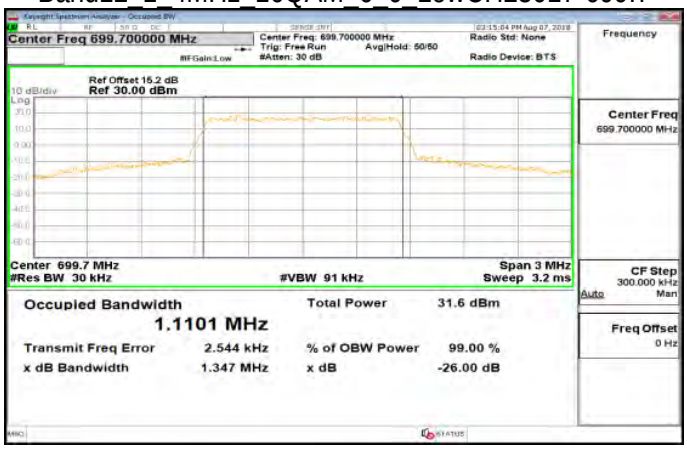
Band5_10MHz_16QAM_50_0_HighCH20600-844



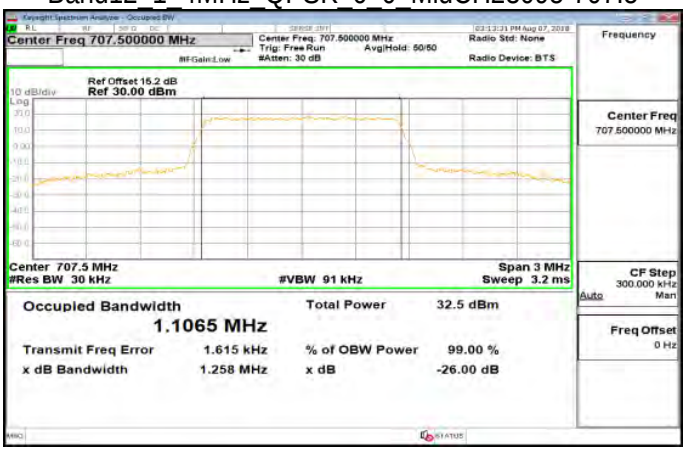
Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



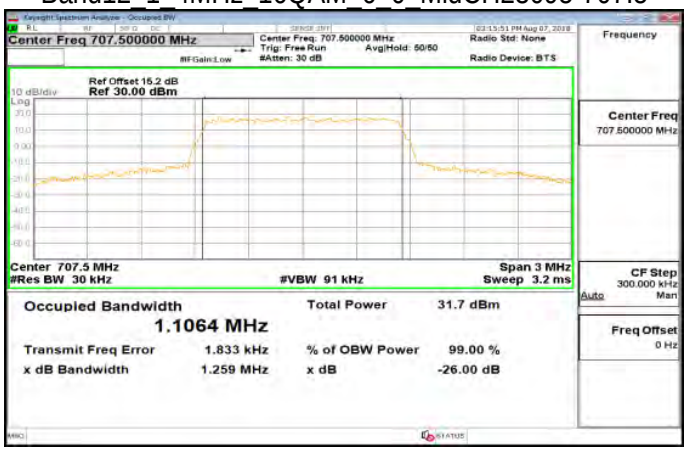
Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7



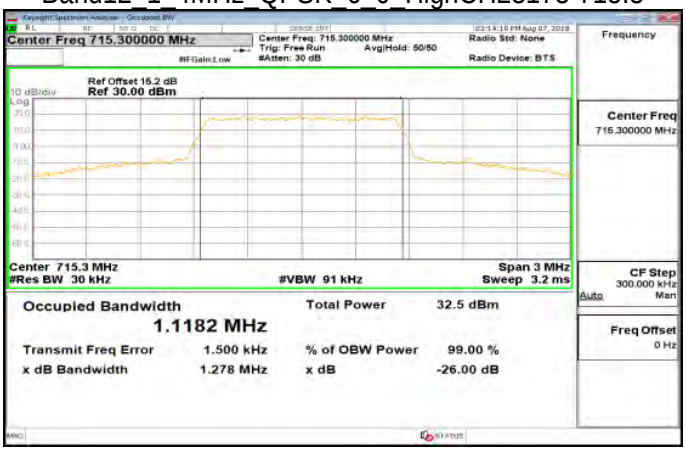
Band12_1_4MHz_QPSK_6_0_MidCH23095-707.5



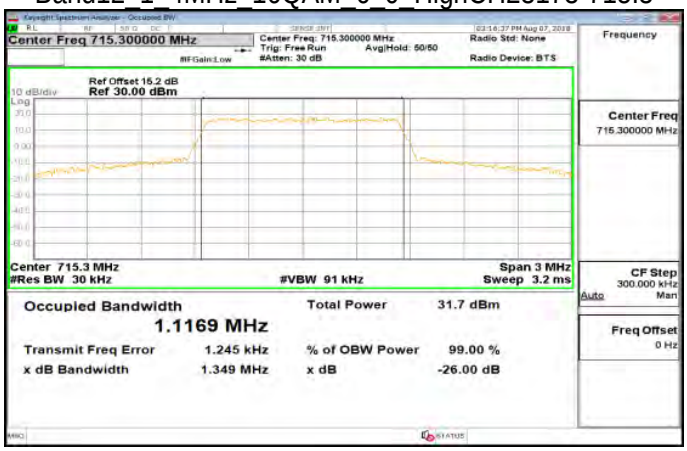
Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



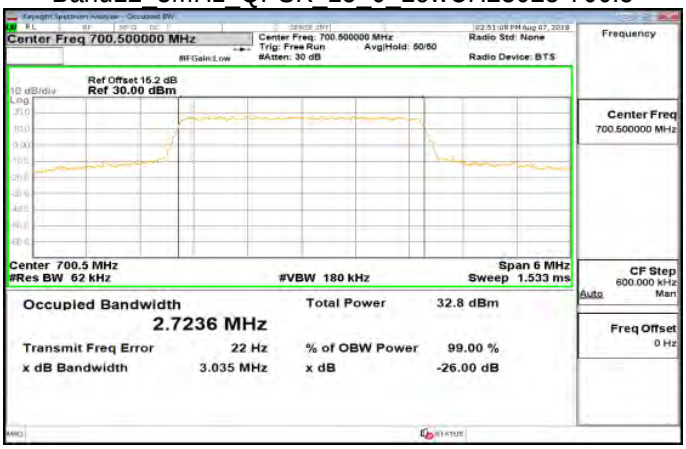
Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



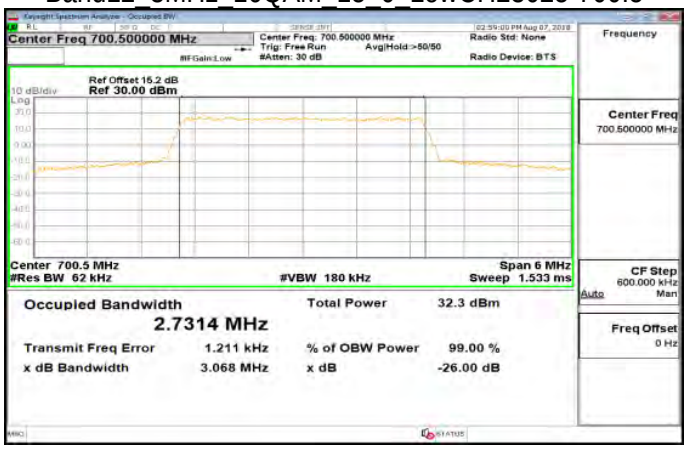
Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3



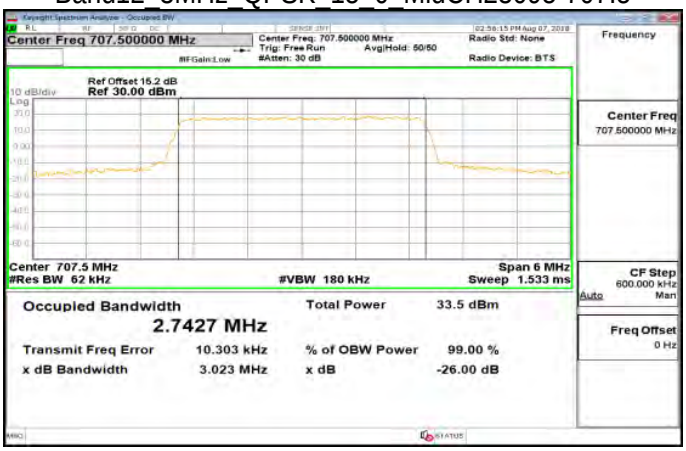
Band12_3MHz_QPSK_15_0_LowCH23025-700.5



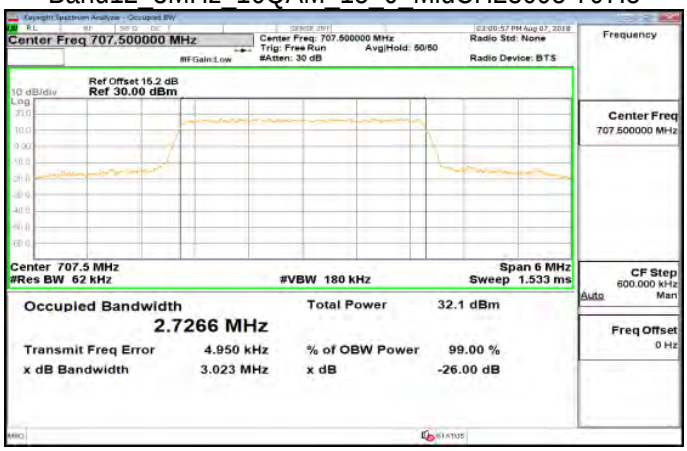
Band12_3MHz_16QAM_15_0_LowCH23025-700.5



Band12_3MHz_QPSK_15_0_MidCH23095-707.5



Band12_3MHz_16QAM_15_0_MidCH23095-707.5



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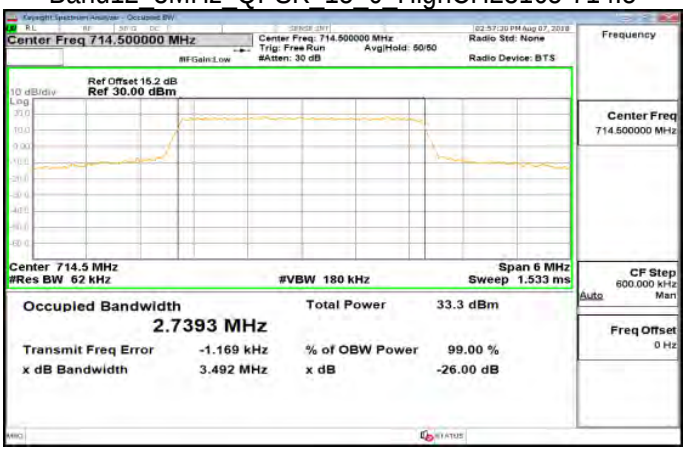
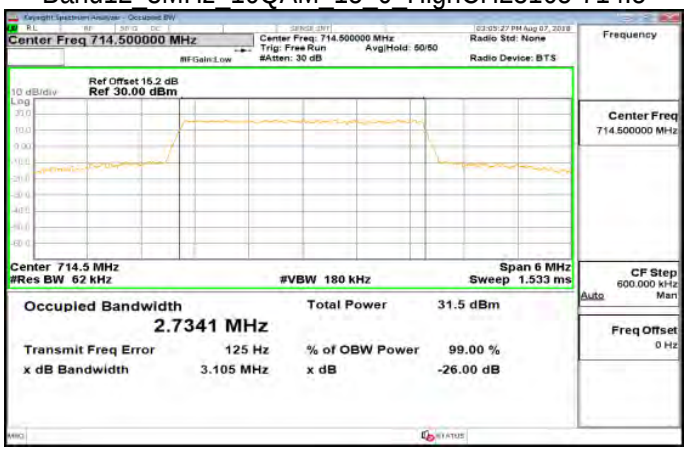
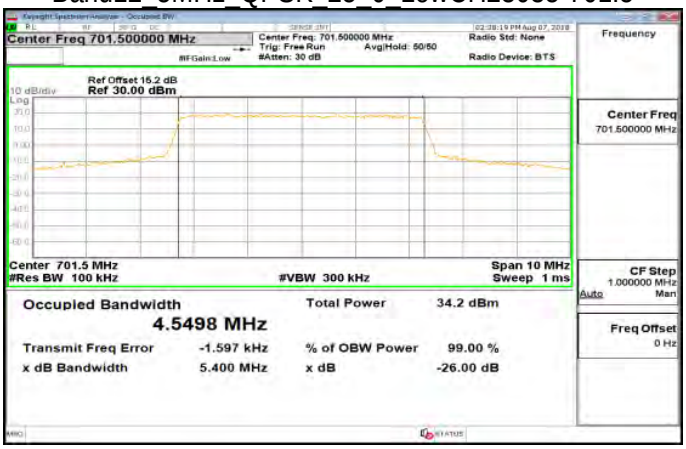


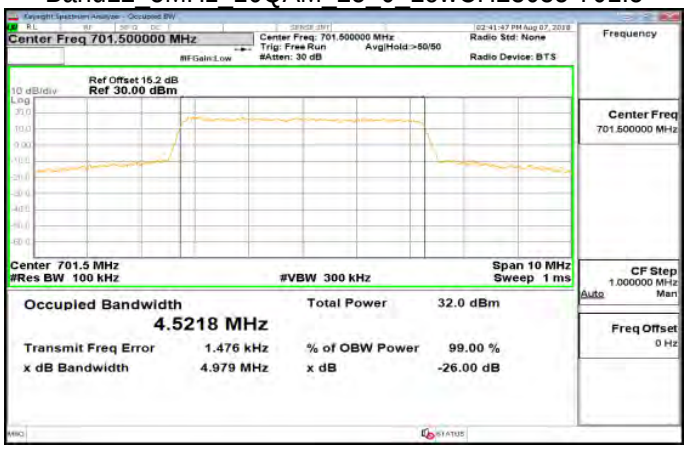
Band12_3MHz_16QAM_15_0_HighCH23165-714.5



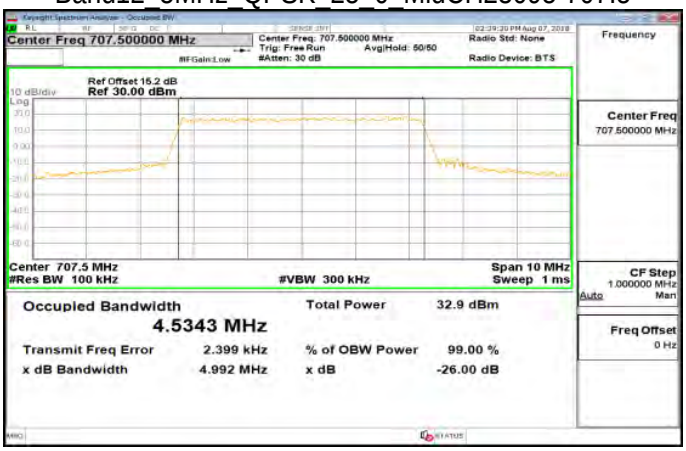
Band12_5MHz_QPSK_25_0_LowCH23035-701.5



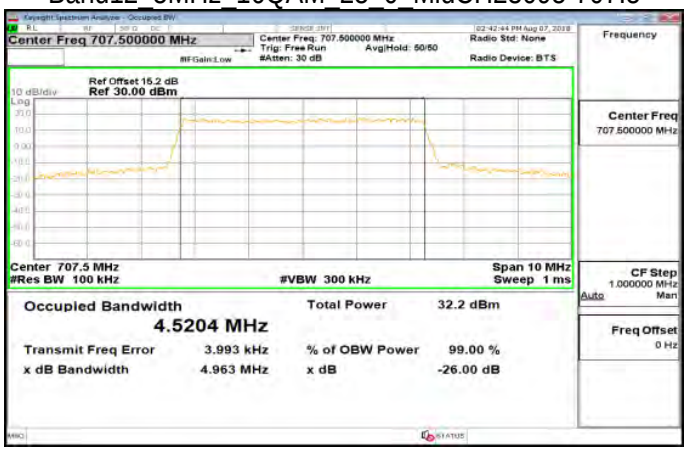
Band12_5MHz_16QAM_25_0_LowCH23035-701.5



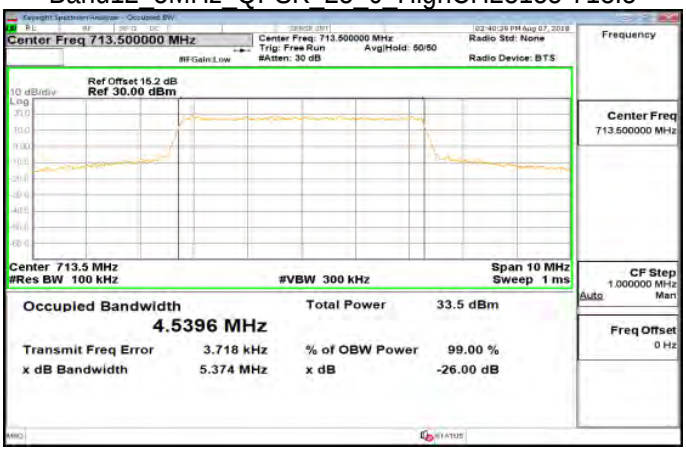
Band12_5MHz_QPSK_25_0_MidCH23095-707.5



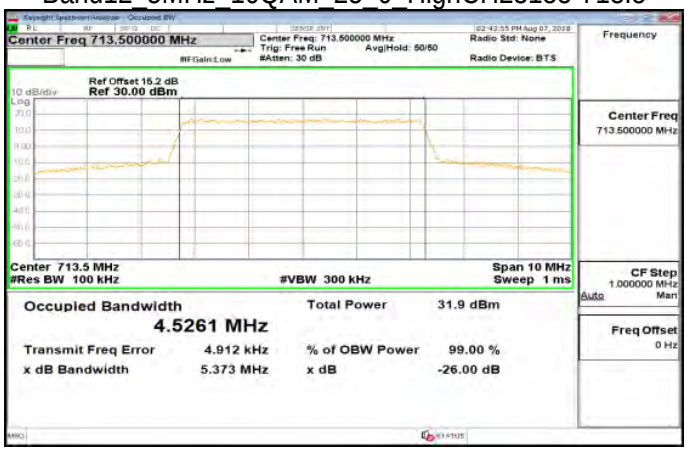
Band12_5MHz_16QAM_25_0_MidCH23095-707.5



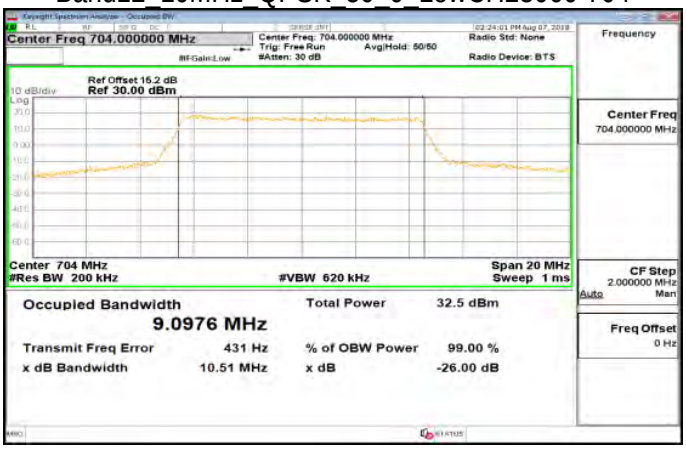
Band12_5MHz_QPSK_25_0_HighCH23155-713.5



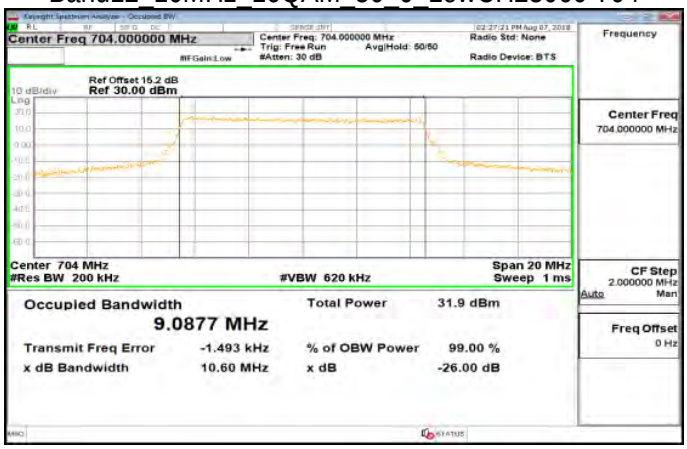
Band12_5MHz_16QAM_25_0_HighCH23155-713.5



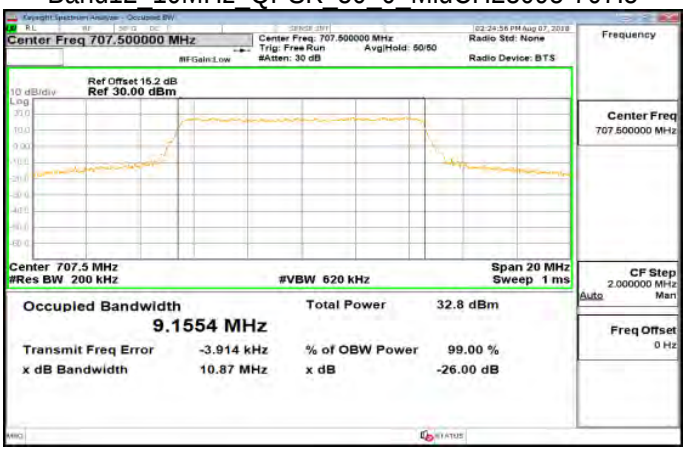
Band12_10MHz_QPSK_50_0_LowCH23060-704



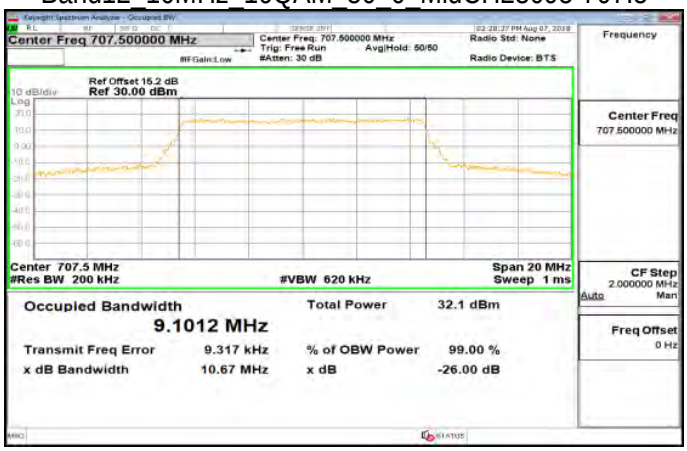
Band12_10MHz_16QAM_50_0_LowCH23060-704



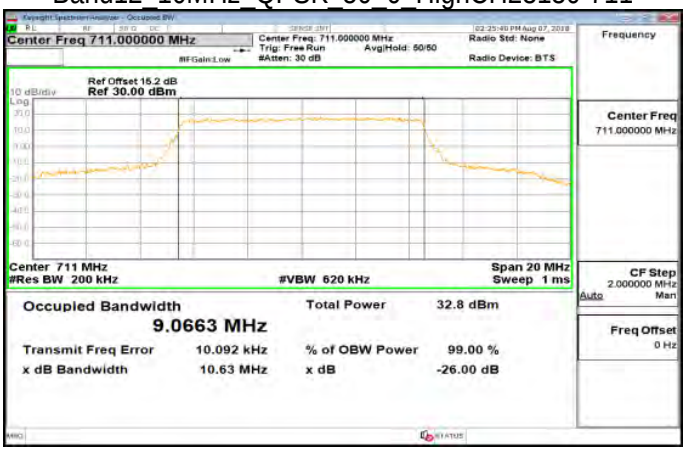
Band12_10MHz_QPSK_50_0_MidCH23095-707.5



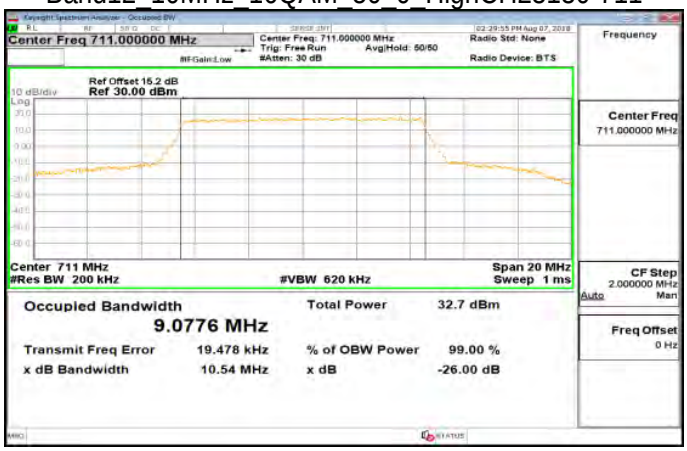
Band12_10MHz_16QAM_50_0_MidCH23095-707.5



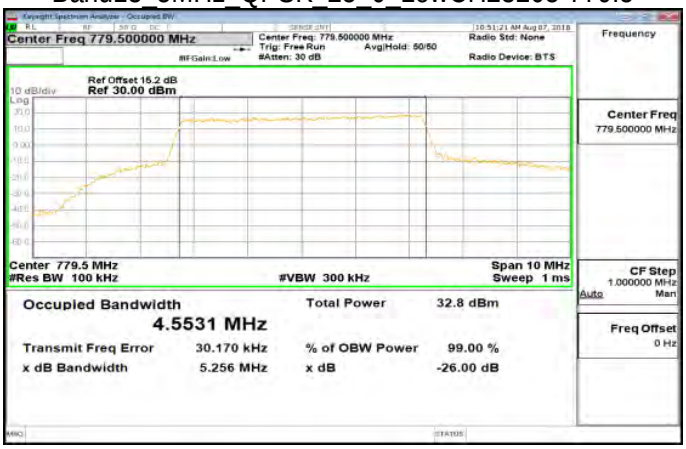
Band12_10MHz_QPSK_50_0_HighCH23130-711



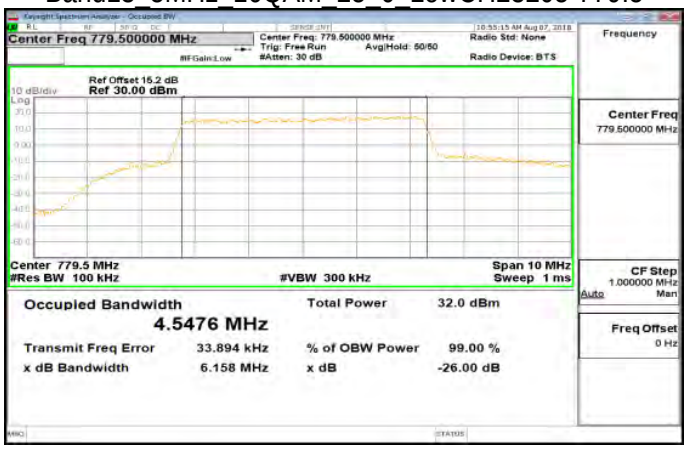
Band12_10MHz_16QAM_50_0_HighCH23130-711



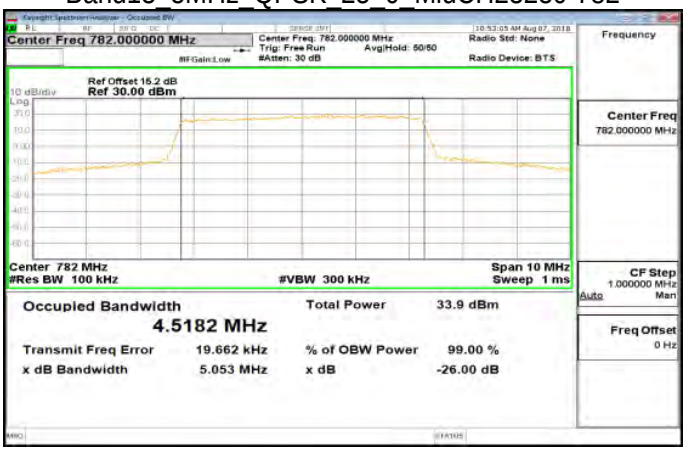
Band13_5MHz_QPSK_25_0_LowCH23205-779.5



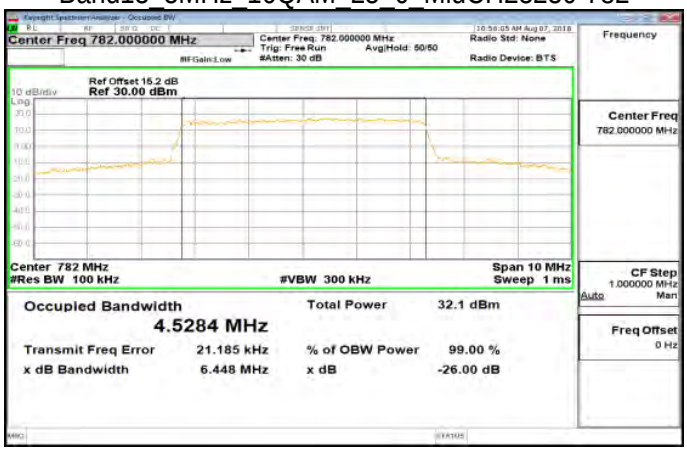
Band13_5MHz_16QAM_25_0_LowCH23205-779.5



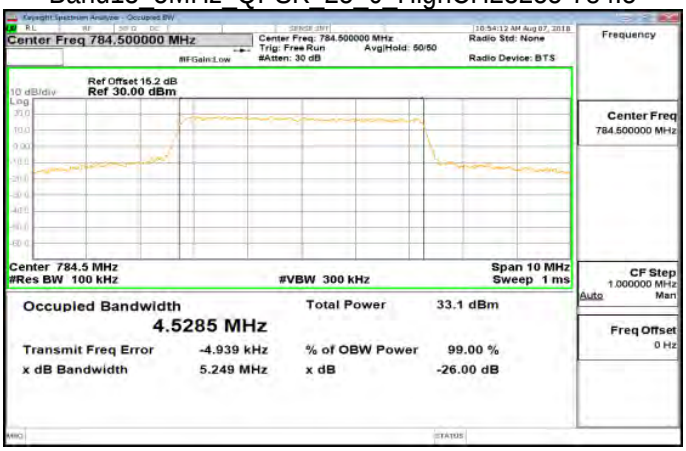
Band13_5MHz_QPSK_25_0_MidCH23230-782



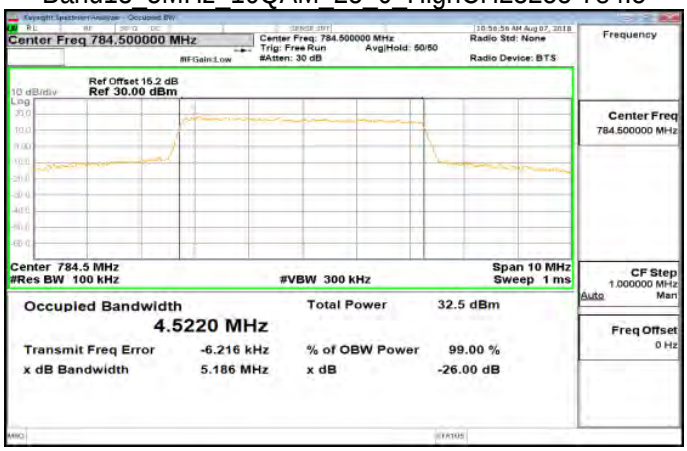
Band13_5MHz_16QAM_25_0_MidCH23230-782



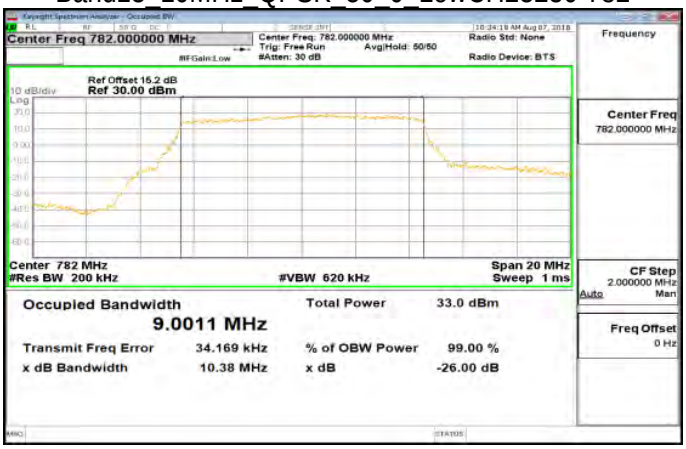
Band13_5MHz_QPSK_25_0_HighCH23255-784.5



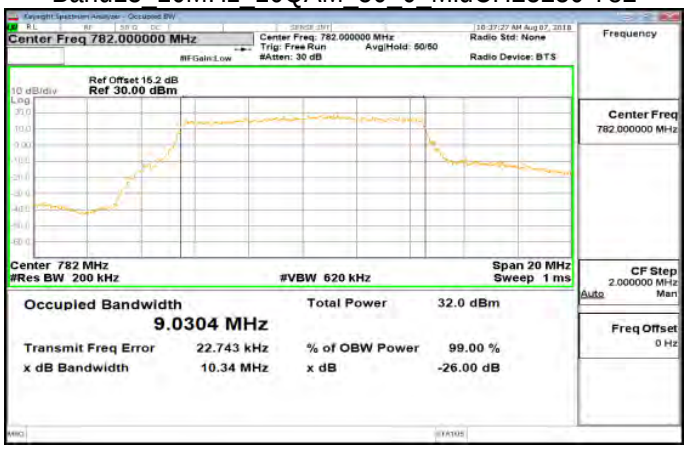
Band13_5MHz_16QAM_25_0_HighCH23255-784.5



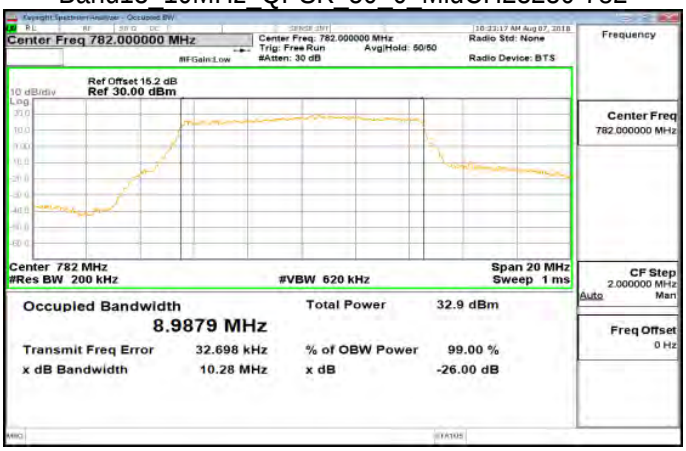
Band13_10MHz_QPSK_50_0_LowCH23230-782



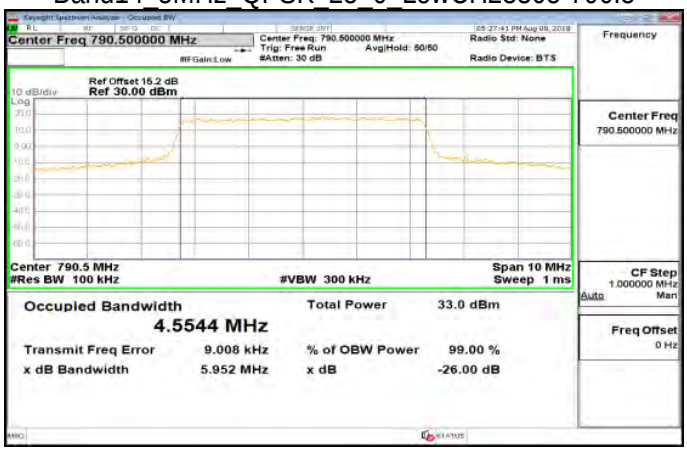
Band13_10MHz_16QAM_50_0_MidCH23230-782



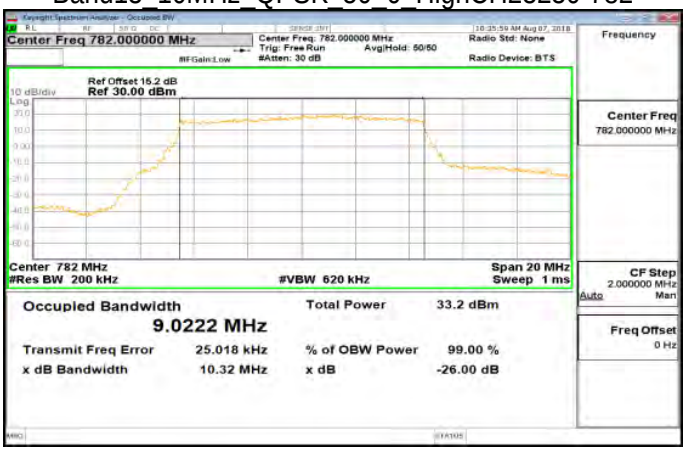
Band13_10MHz_QPSK_50_0_MidCH23230-782



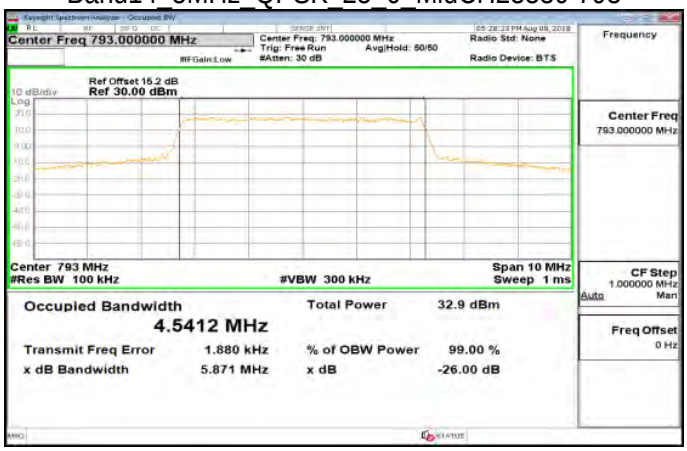
Band14_5MHz_QPSK_25_0_LowCH23305-790.5



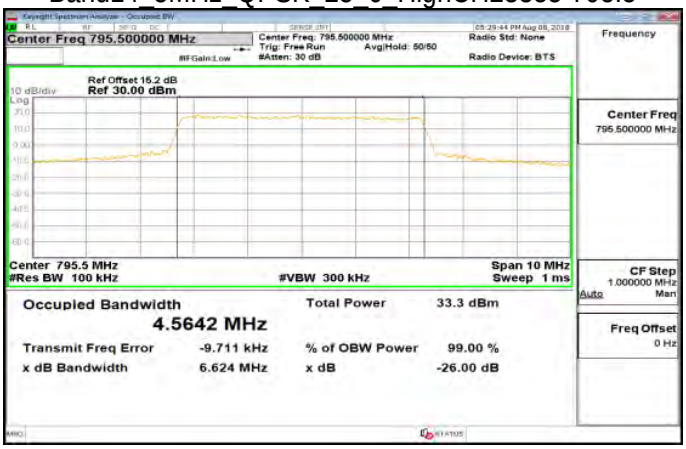
Band13_10MHz_QPSK_50_0_HighCH23230-782



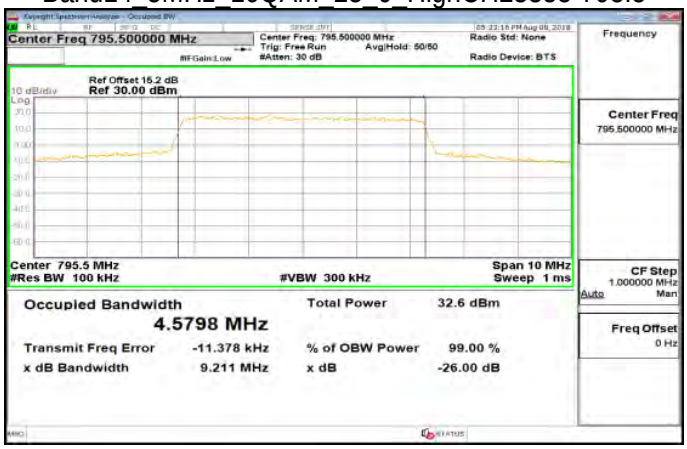
Band14_5MHz_QPSK_25_0_MidCH23330-793



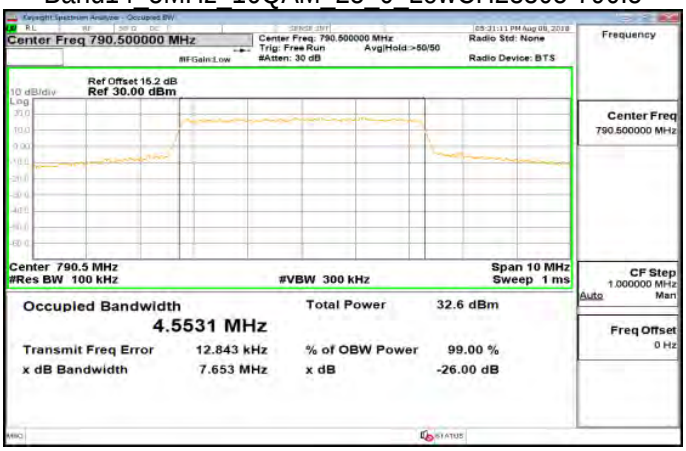
Band14_5MHz_QPSK_25_0_HighCH23355-795.5



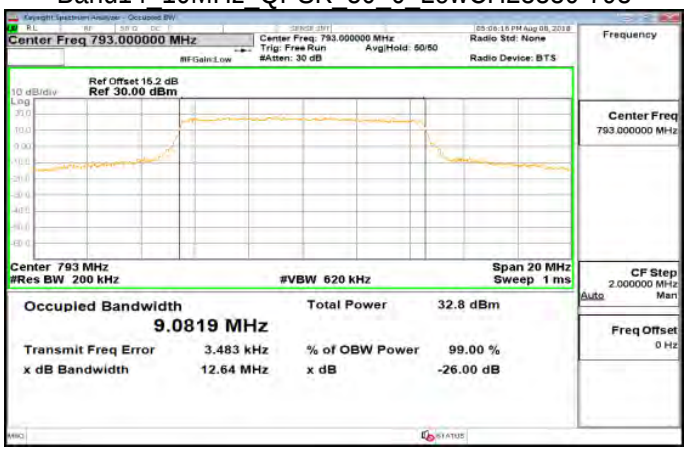
Band14_5MHz_16QAM_25_0_HighCH23355-795.5



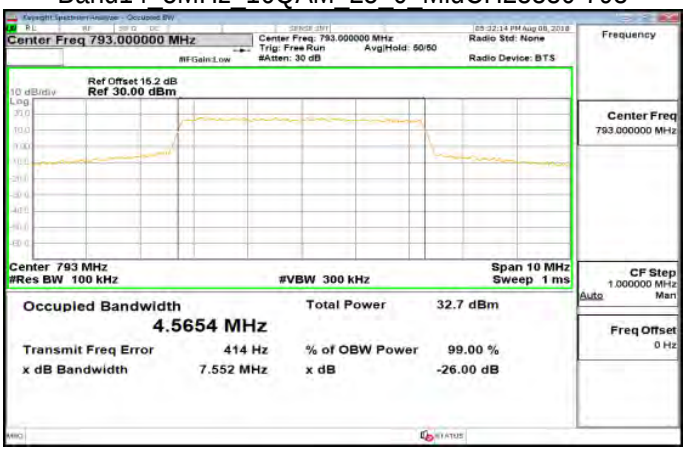
Band14_5MHz_16QAM_25_0_LowCH23305-790.5



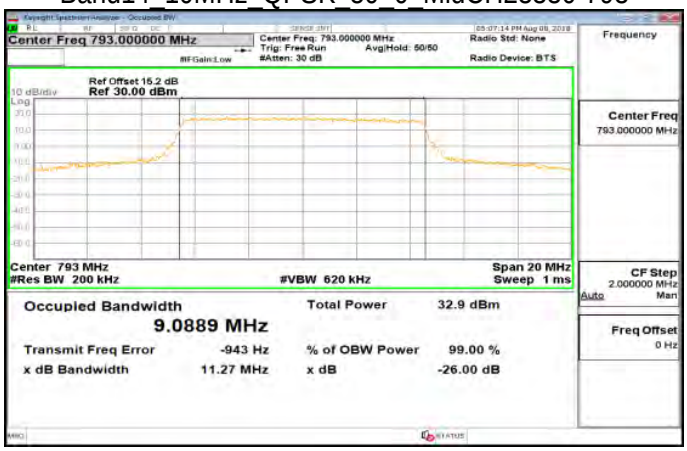
Band14_10MHz_QPSK_50_0_LowCH23330-793



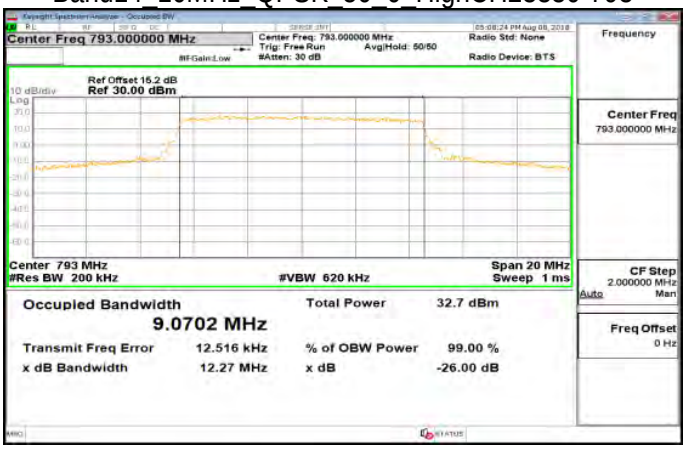
Band14_5MHz_16QAM_25_0_MidCH23330-793



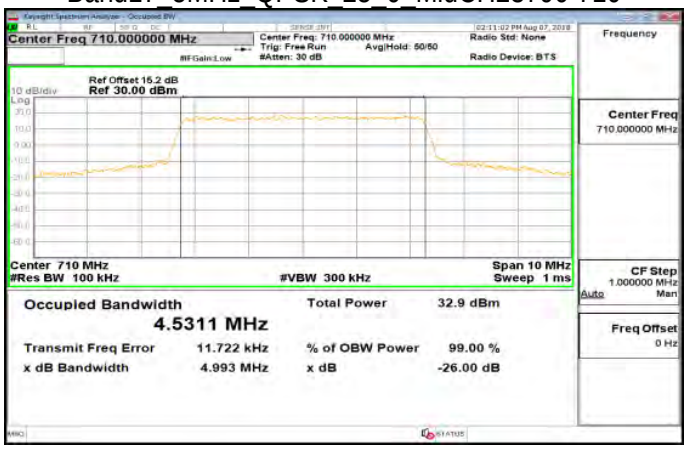
Band14_10MHz_QPSK_50_0_MidCH23330-793



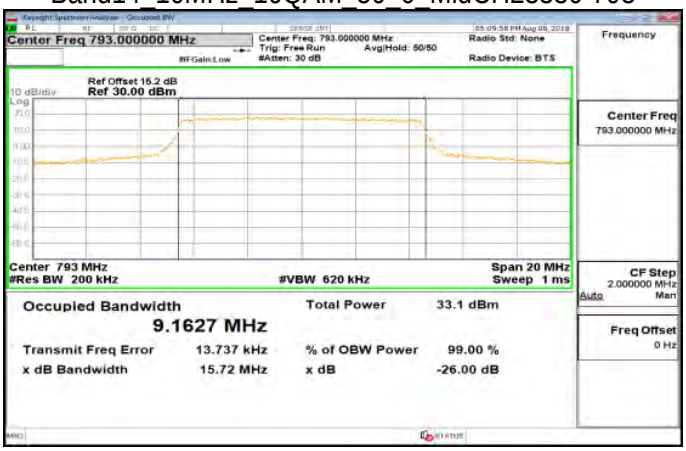
Band14_10MHz_QPSK_50_0_HighCH23330-793



Band17_5MHz_QPSK_25_0_MidCH23790-710



Band14_10MHz_16QAM_50_0_MidCH23330-793



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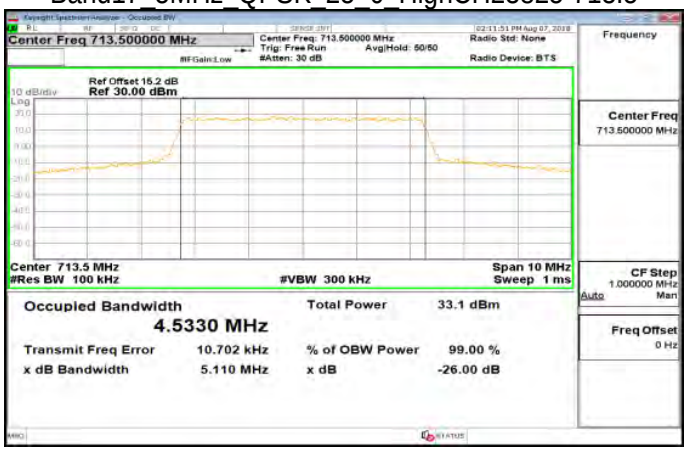
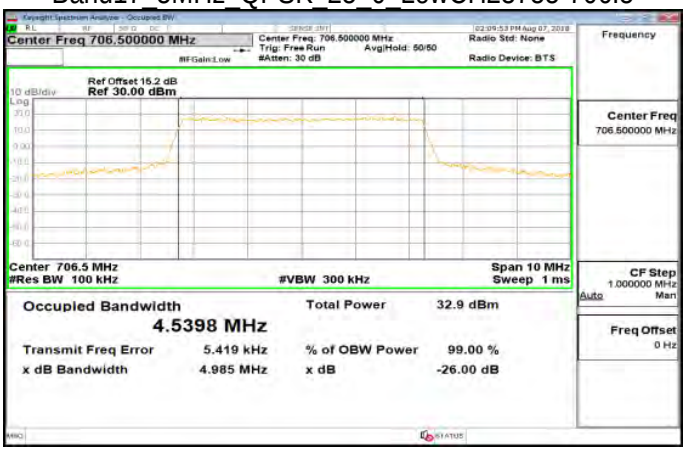
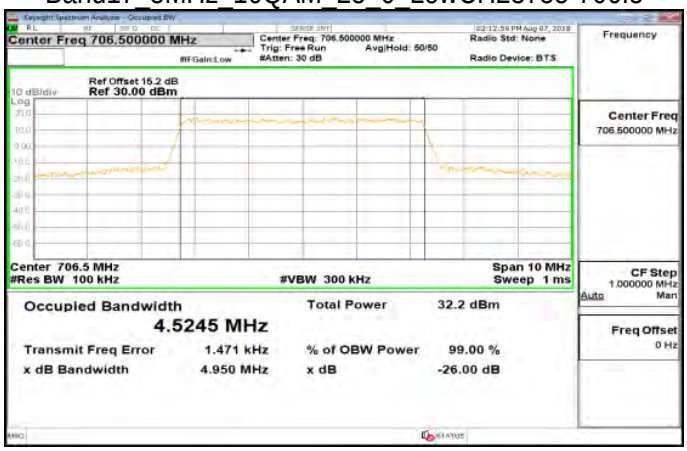


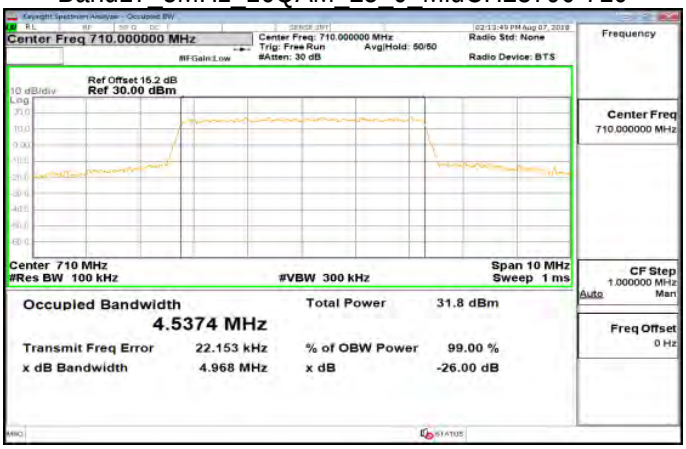
Band17_5MHz_QPSK_25_0_LowCH23755-706.5



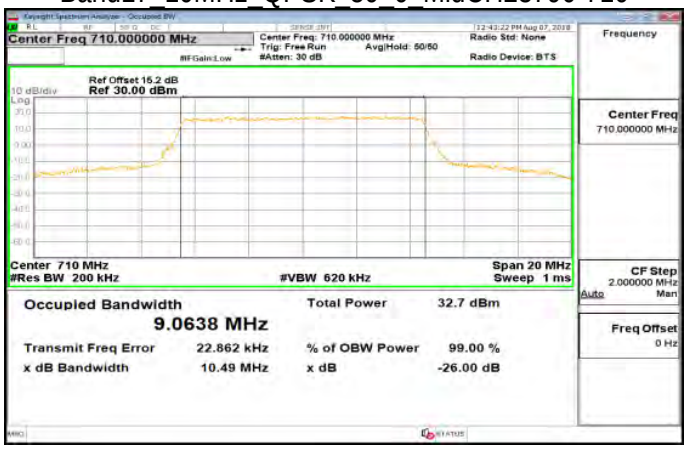
Band17_5MHz_16QAM_25_0_LowCH23755-706.5



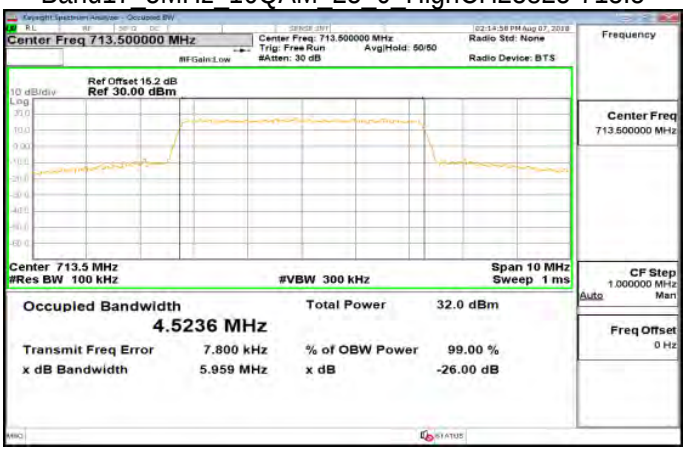
Band17_5MHz_16QAM_25_0_MidCH23790-710



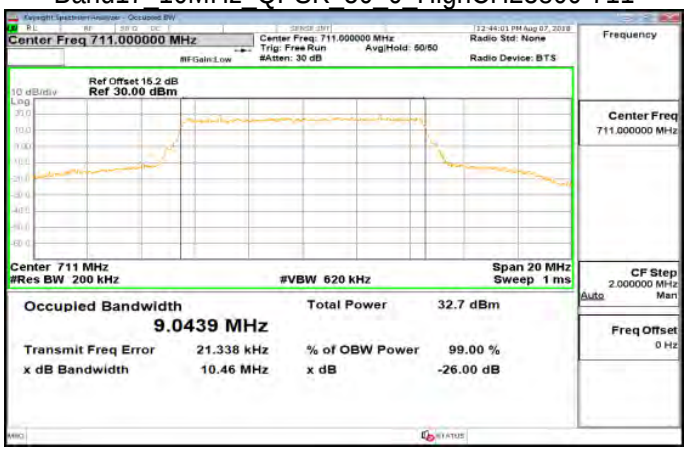
Band17_10MHz_QPSK_50_0_MidCH23790-710



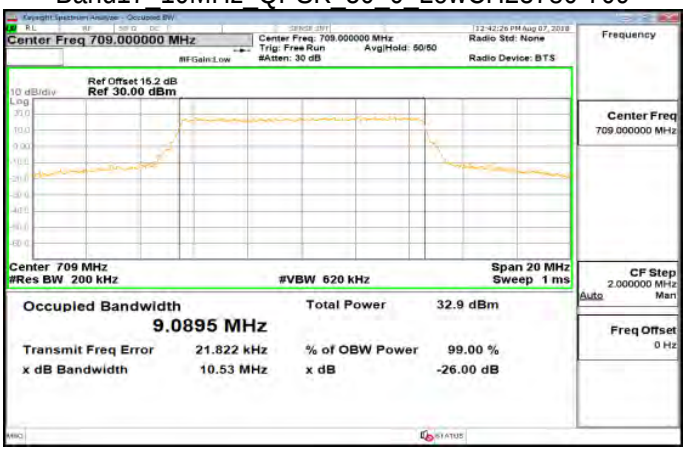
Band17_5MHz_16QAM_25_0_HighCH23825-713.5



Band17_10MHz_QPSK_50_0_HighCH23800-711



Band17_10MHz_QPSK_50_0_LowCH23780-709



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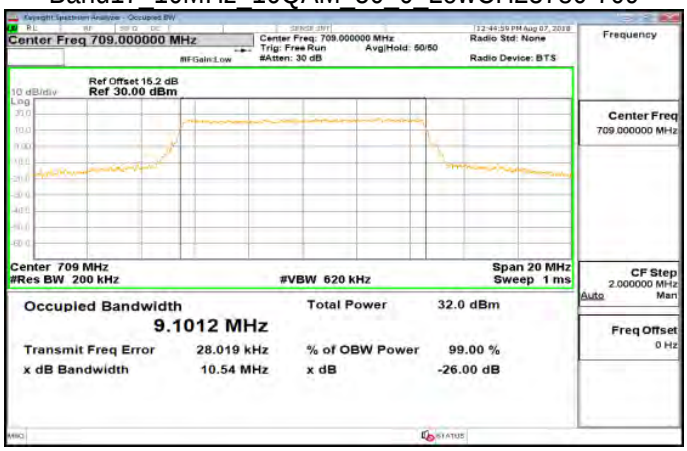
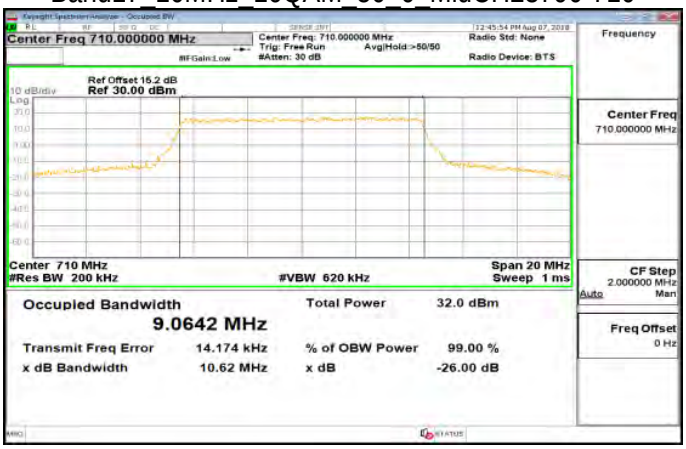
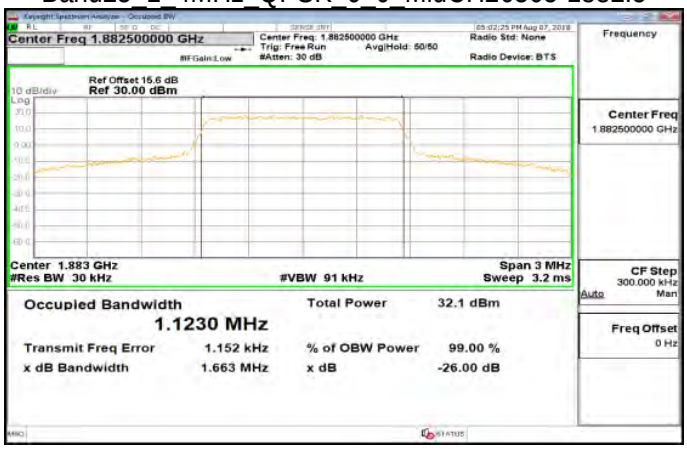


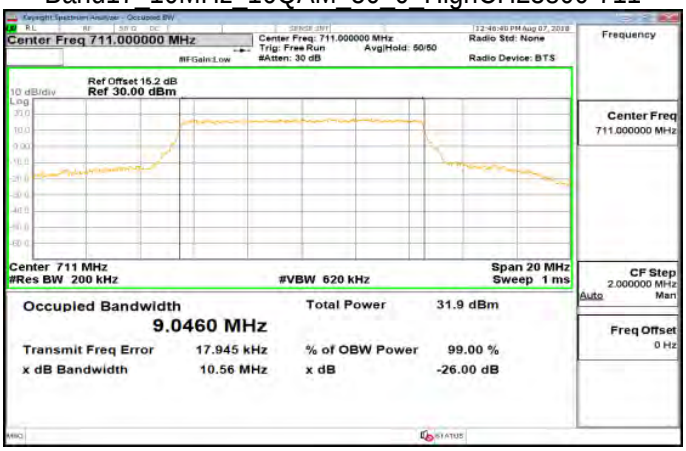
Band17_10MHz_16QAM_50_0_MidCH23790-710



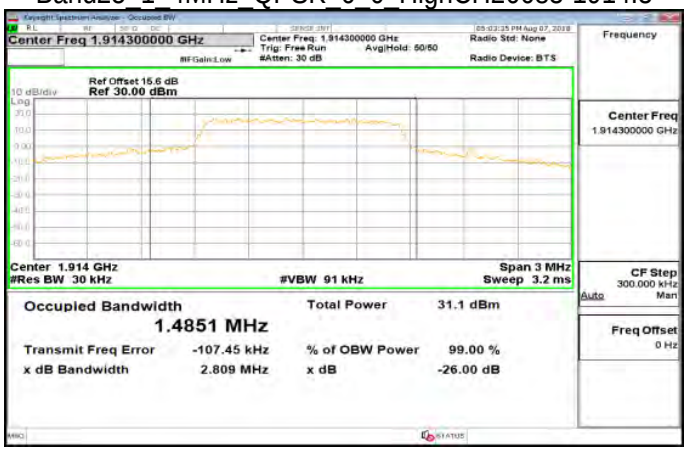
Band25_1_4MHz_QPSK_6_0_MidCH26365-1882.5



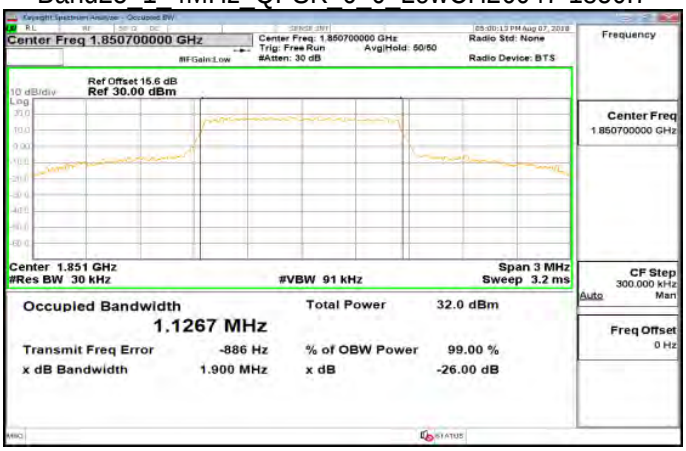
Band17_10MHz_16QAM_50_0_HighCH23800-711



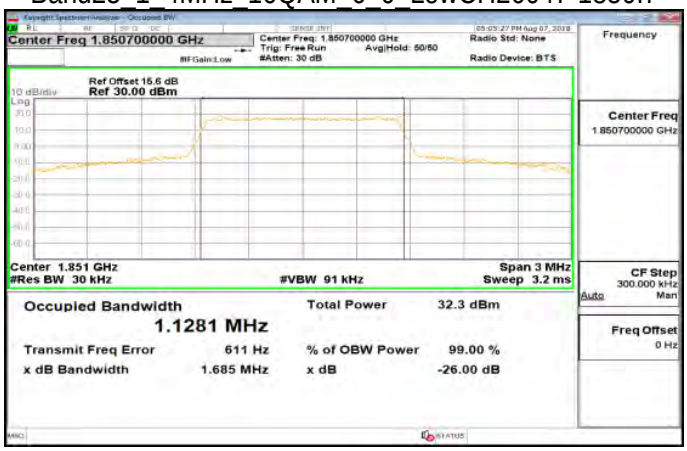
Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



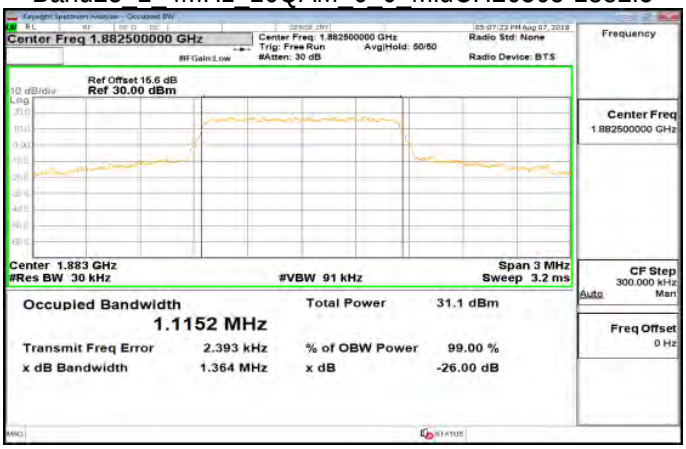
Band25_1_4MHz_QPSK_6_0_LowCH26047-1850.7



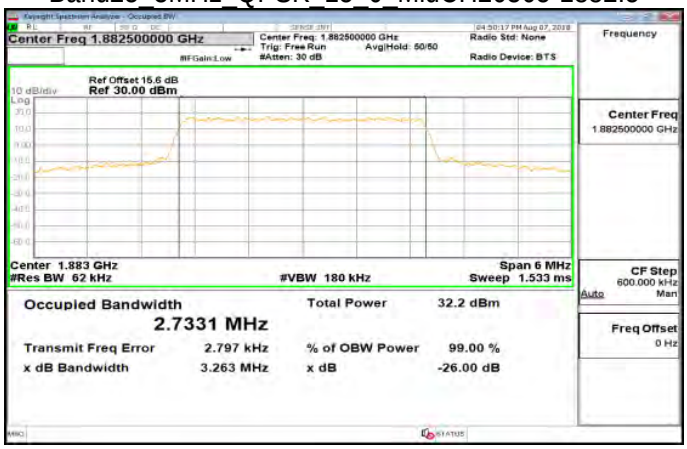
Band25_1_4MHz_16QAM_6_0_LowCH26047-1850.7



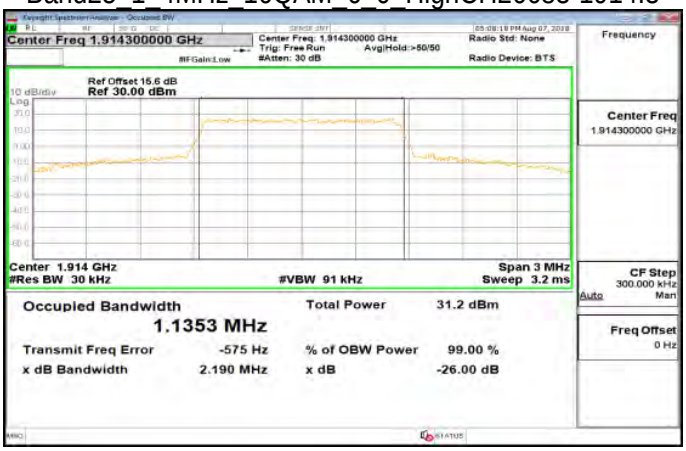
Band25_1_4MHz_16QAM_6_0_MidCH26365-1882.5



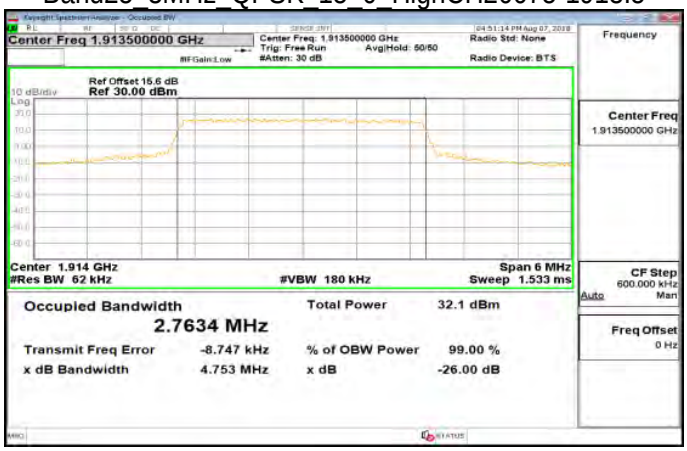
Band25_3MHz_QPSK_15_0_MidCH26365-1882.5



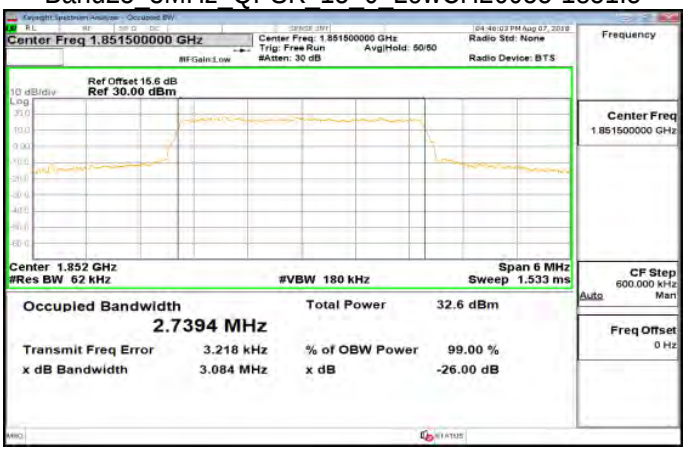
Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



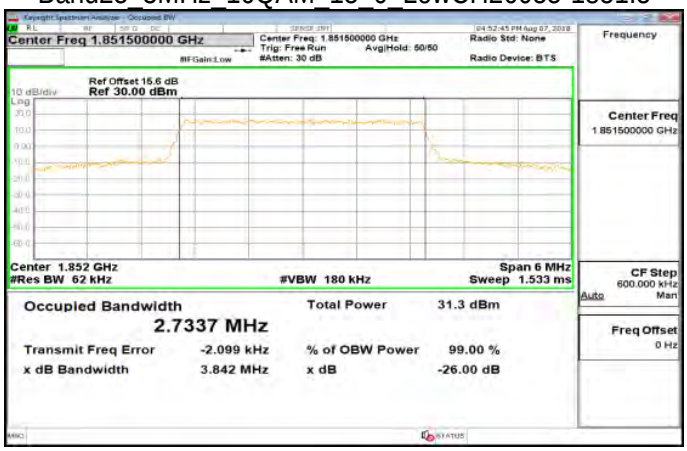
Band25_3MHz_QPSK_15_0_HighCH26675-1913.5



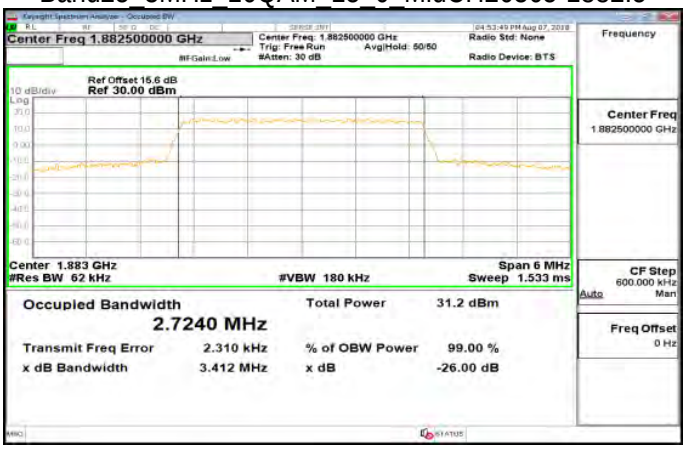
Band25_3MHz_QPSK_15_0_LowCH26055-1851.5



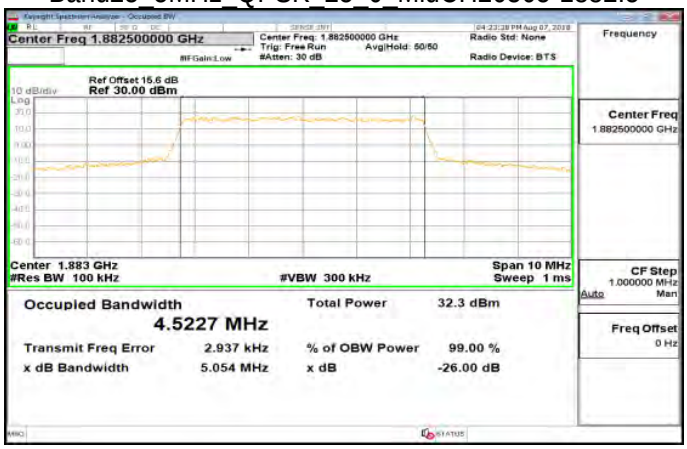
Band25_3MHz_16QAM_15_0_LowCH26055-1851.5



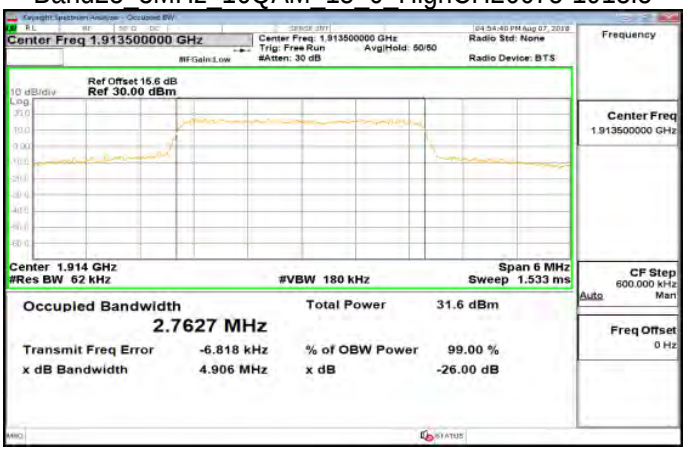
Band25_3MHz_16QAM_15_0_MidCH26365-1882.5



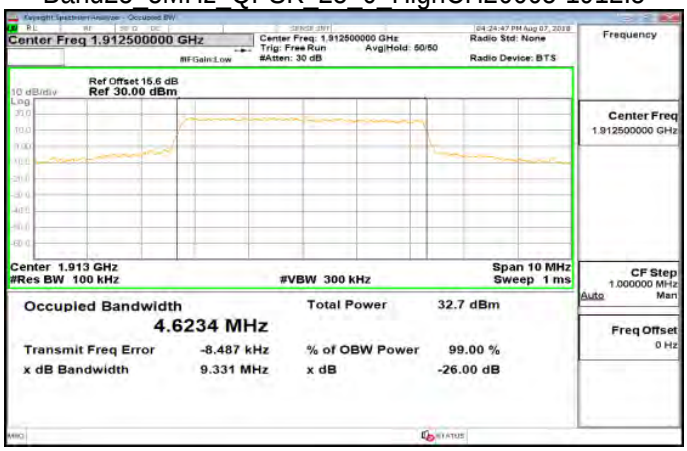
Band25_5MHz_QPSK_25_0_MidCH26365-1882.5



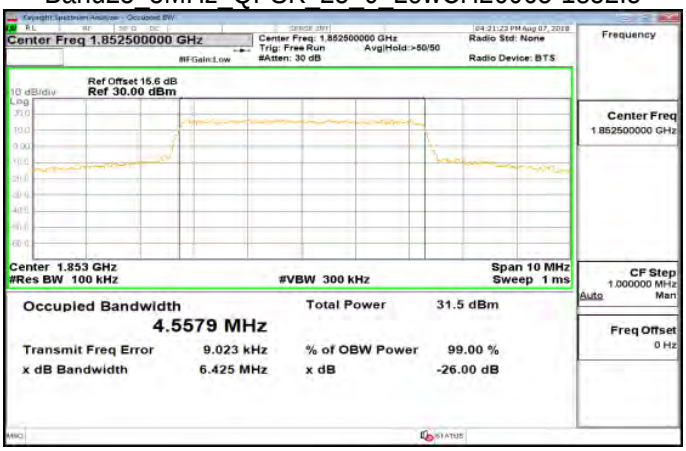
Band25_3MHz_16QAM_15_0_HighCH26675-1913.5



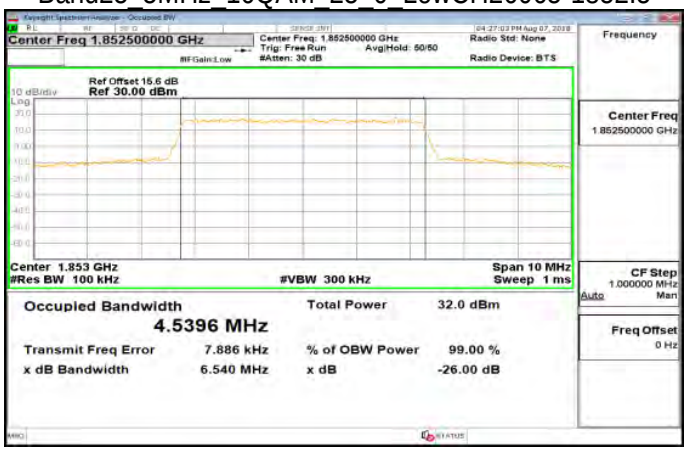
Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



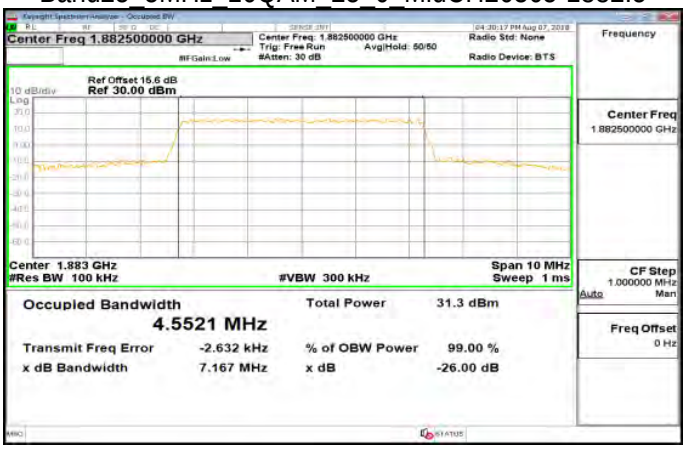
Band25_5MHz_QPSK_25_0_LowCH26065-1852.5



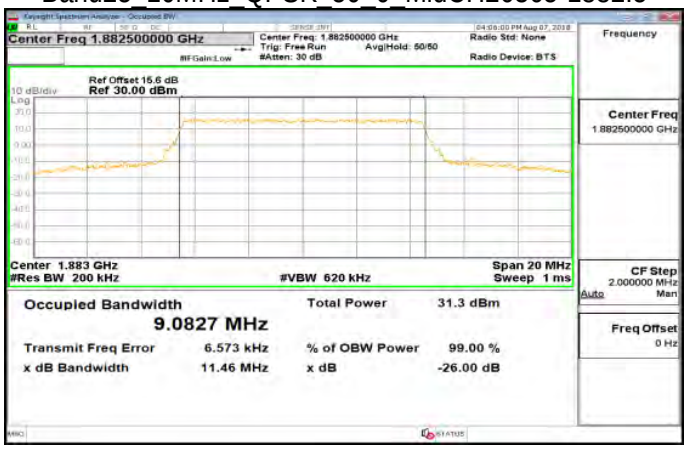
Band25_5MHz_16QAM_25_0_LowCH26065-1852.5



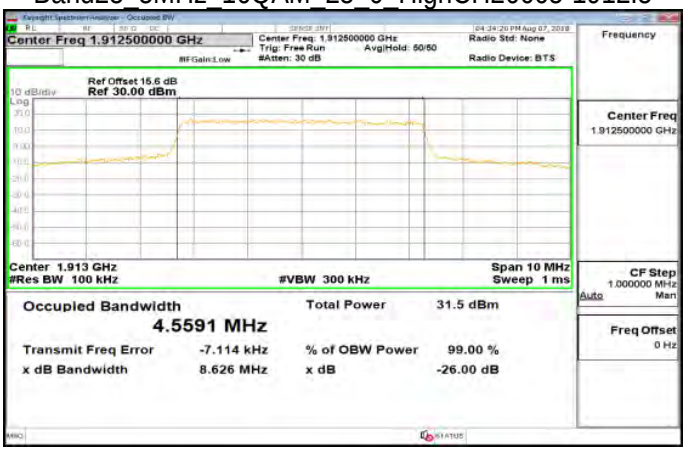
Band25_5MHz_16QAM_25_0_MidCH26365-1882.5



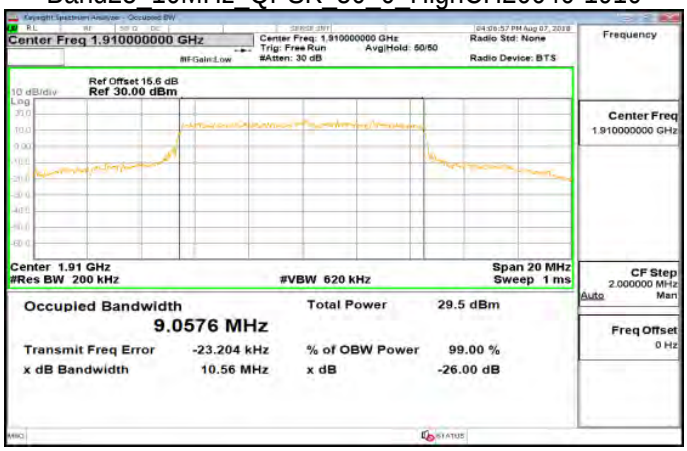
Band25_10MHz_QPSK_50_0_MidCH26365-1882.5



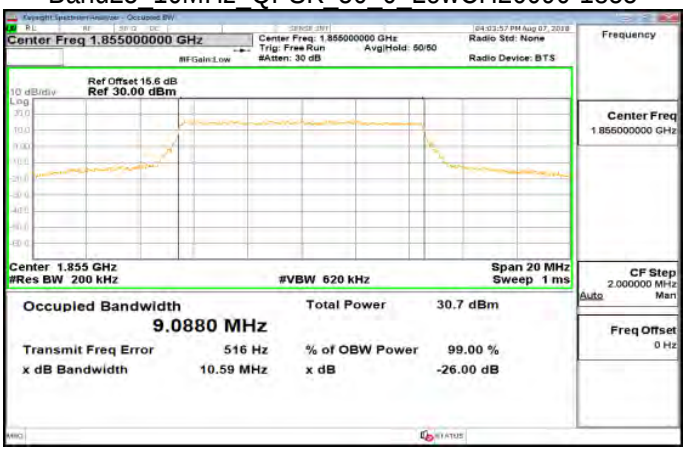
Band25_5MHz_16QAM_25_0_HighCH26665-1912.5



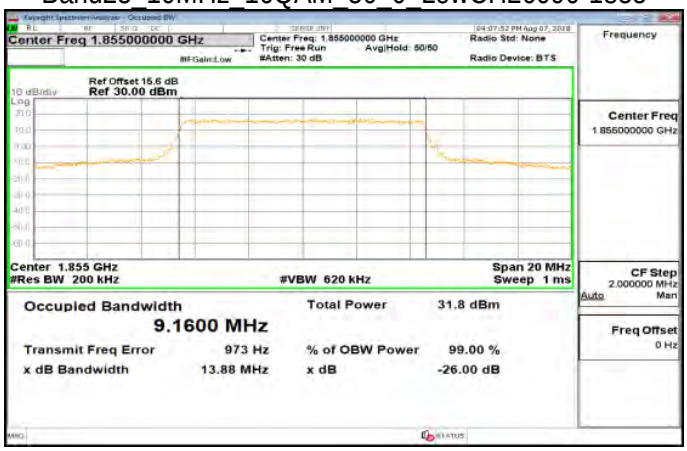
Band25_10MHz_QPSK_50_0_HighCH26640-1910



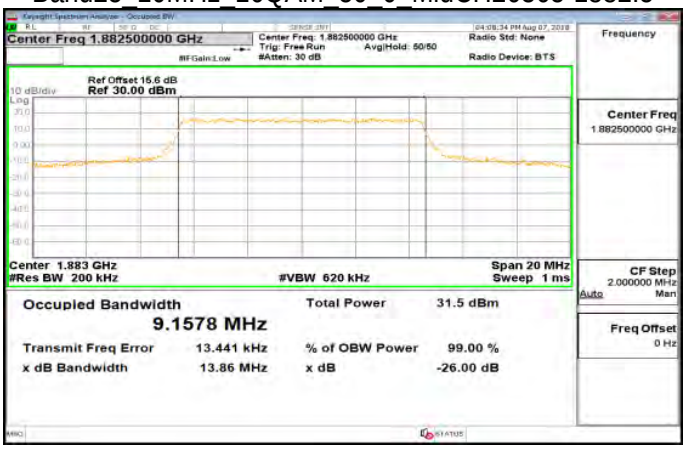
Band25_10MHz_QPSK_50_0_LowCH26090-1855



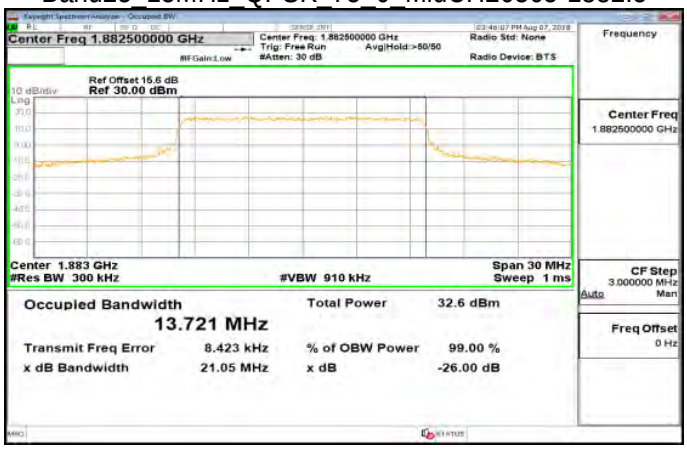
Band25_10MHz_16QAM_50_0_LowCH26090-1855



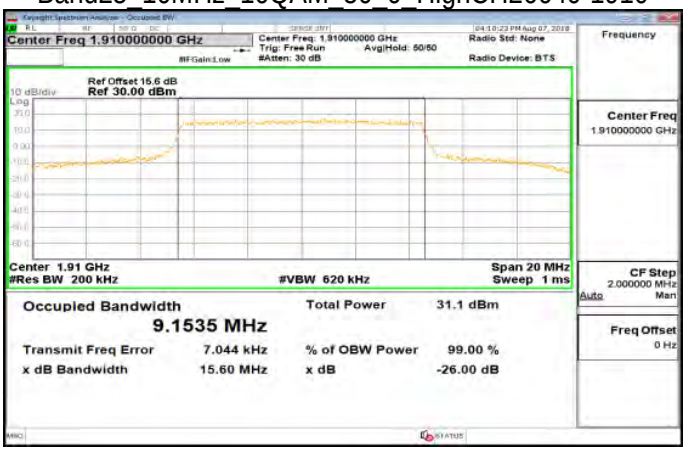
Band25_10MHz_16QAM_50_0_MidCH26365-1882.5



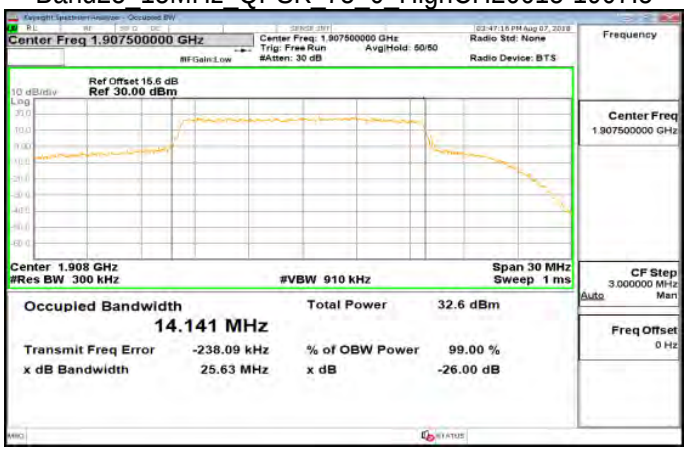
Band25_15MHz_QPSK_75_0_MidCH26365-1882.5



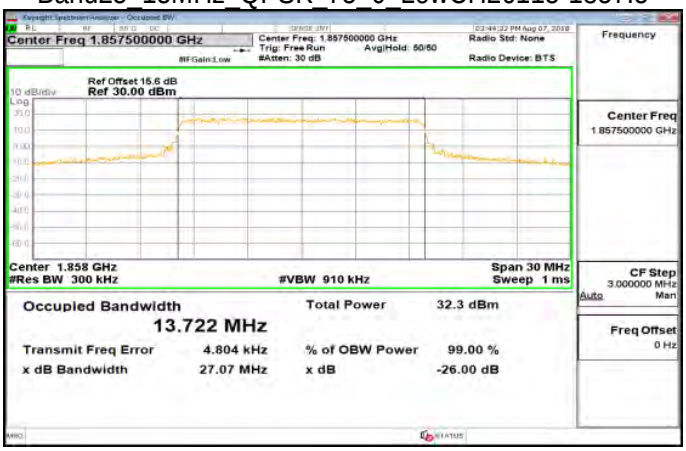
Band25_10MHz_16QAM_50_0_HighCH26640-1910



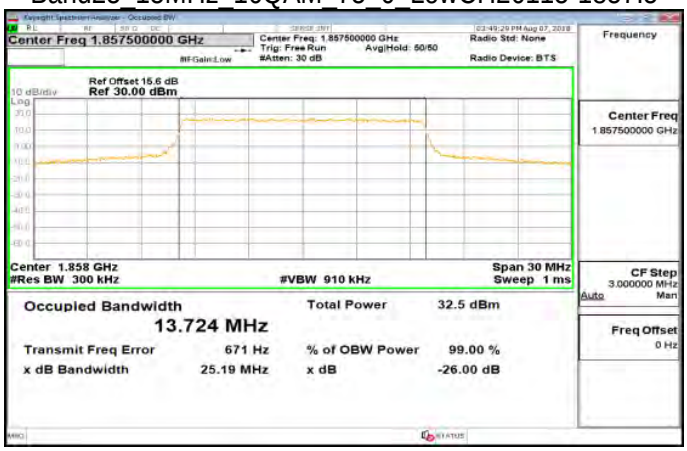
Band25_15MHz_QPSK_75_0_HighCH26615-1907.5



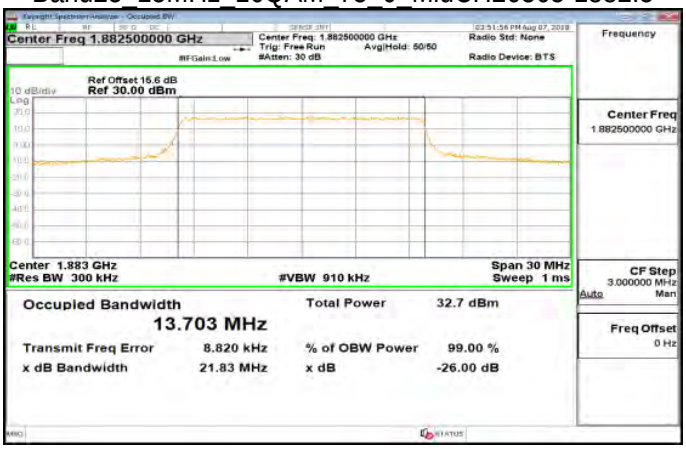
Band25_15MHz_QPSK_75_0_LowCH26115-1857.5



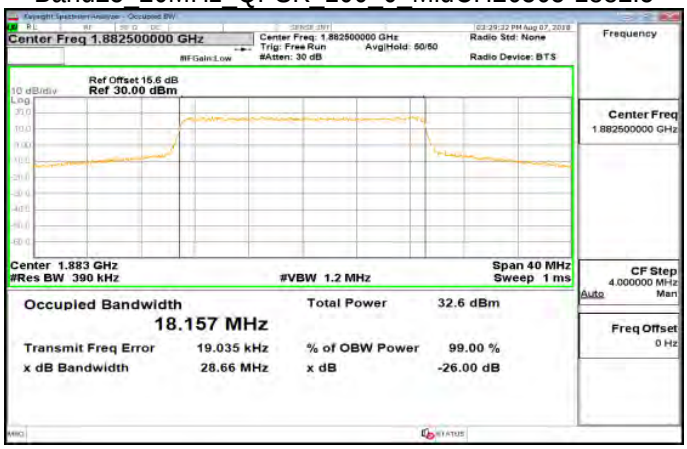
Band25_15MHz_16QAM_75_0_LowCH26115-1857.5



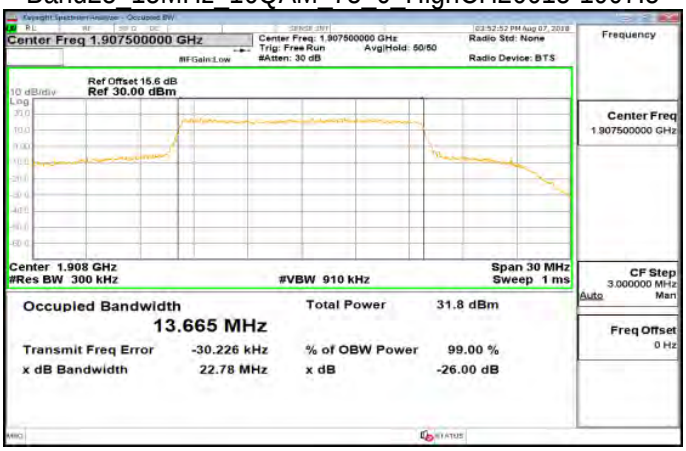
Band25_15MHz_16QAM_75_0_MidCH26365-1882.5



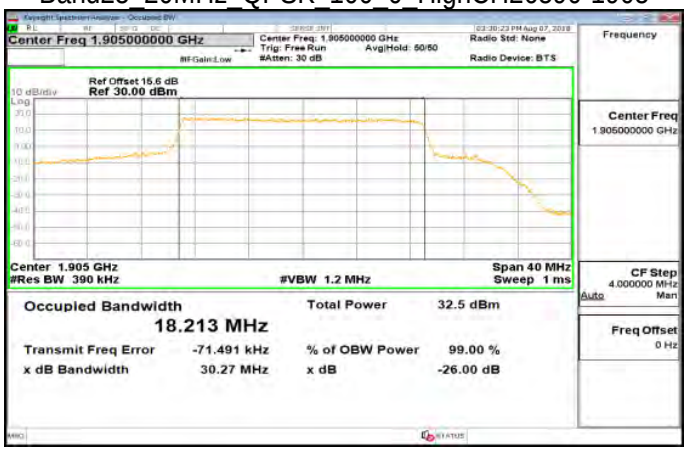
Band25_20MHz_QPSK_100_0_MidCH26365-1882.5



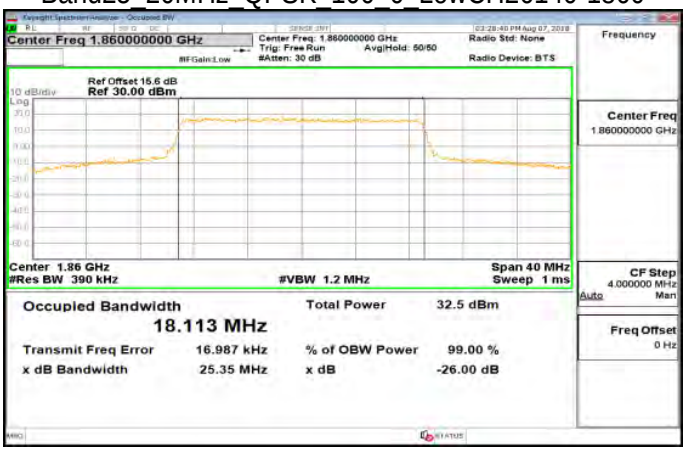
Band25_15MHz_16QAM_75_0_HighCH26615-1907.5



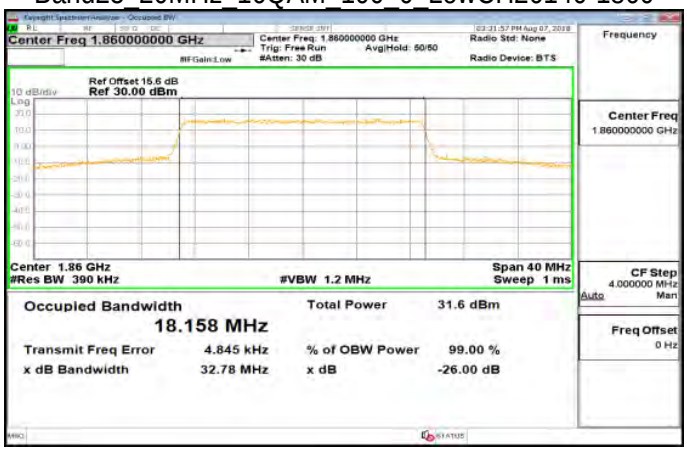
Band25_20MHz_QPSK_100_0_HighCH26590-1905



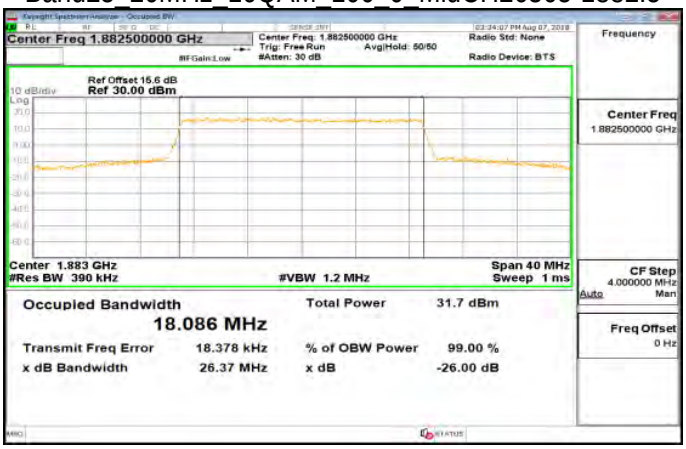
Band25_20MHz_QPSK_100_0_LowCH26140-1860



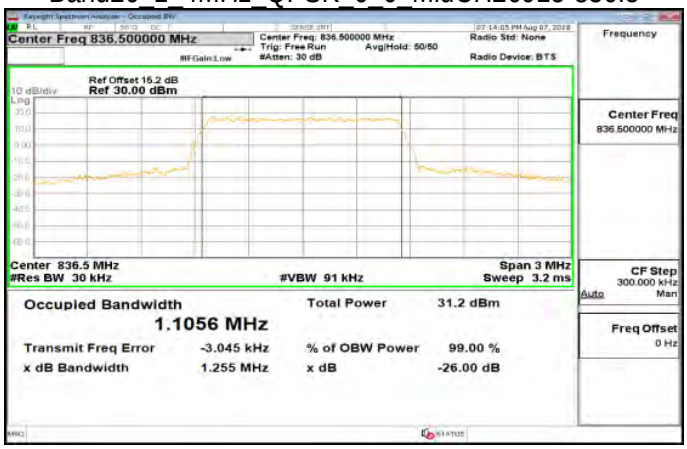
Band25_20MHz_16QAM_100_0_LowCH26140-1860



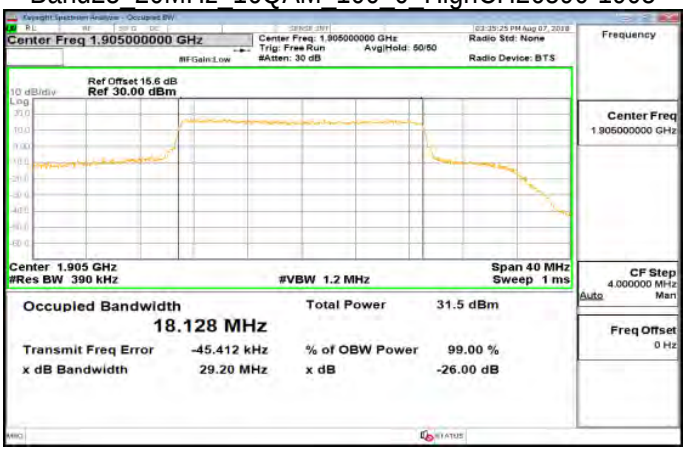
Band25_20MHz_16QAM_100_0_MidCH26365-1882.5



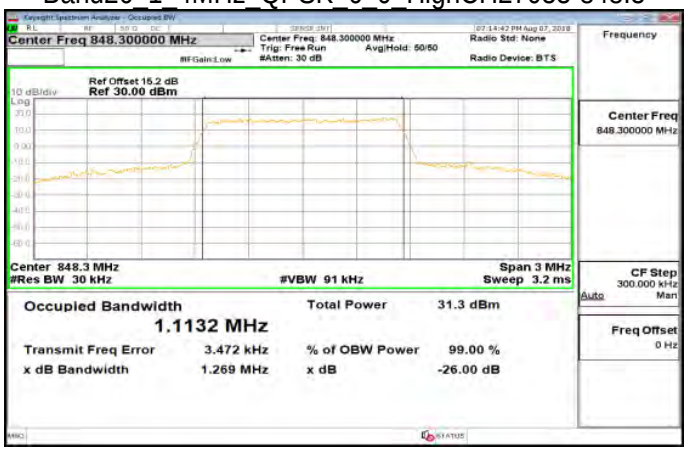
Band26_1_4MHz_QPSK_6_0_MidCH26915-836.5



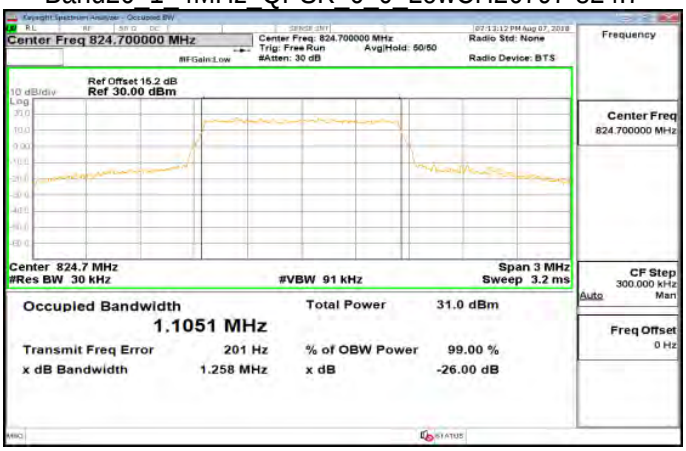
Band25_20MHz_16QAM_100_0_HighCH26590-1905



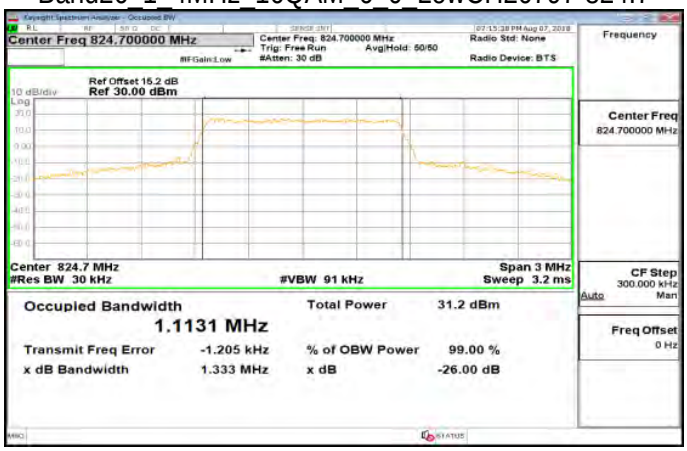
Band26_1_4MHz_QPSK_6_0_HighCH27033-848.3



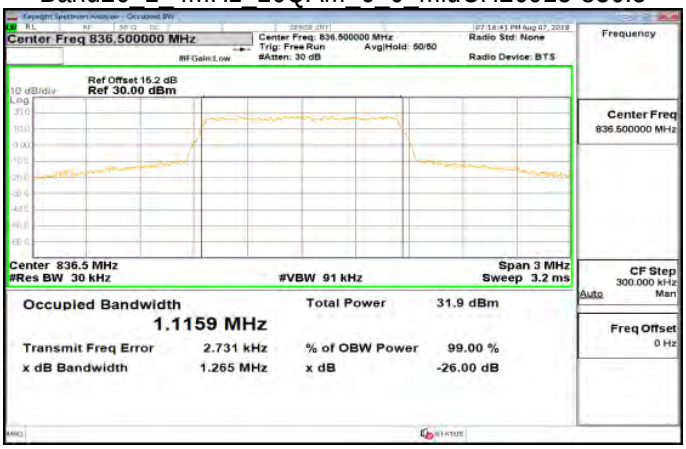
Band26_1_4MHz_QPSK_6_0_LowCH26797-824.7



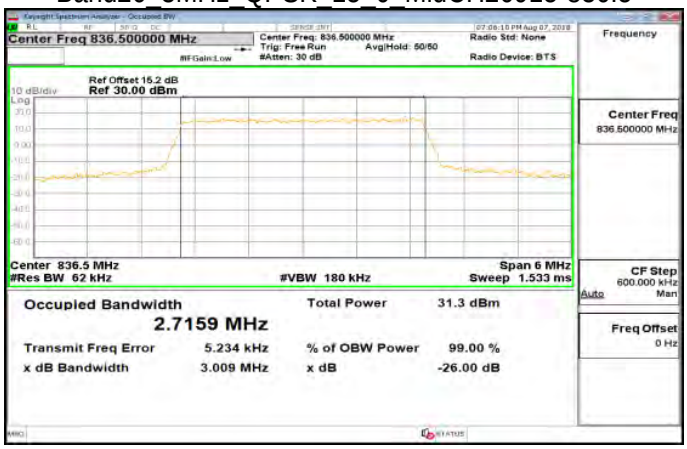
Band26_1_4MHz_16QAM_6_0_LowCH26797-824.7



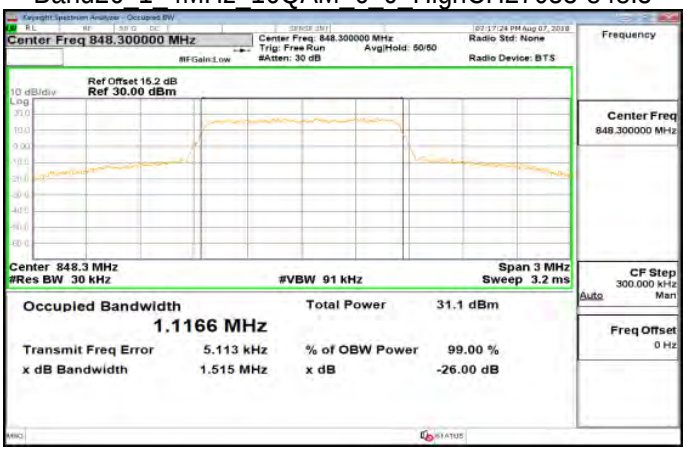
Band26_1_4MHz_16QAM_6_0_MidCH26915-836.5



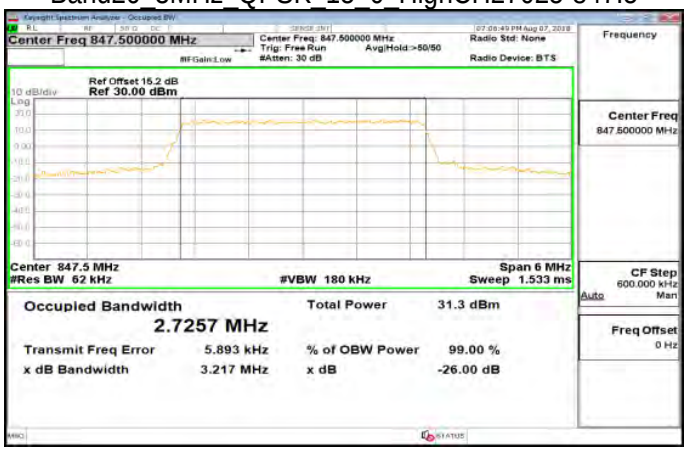
Band26_3MHz_QPSK_15_0_MidCH26915-836.5



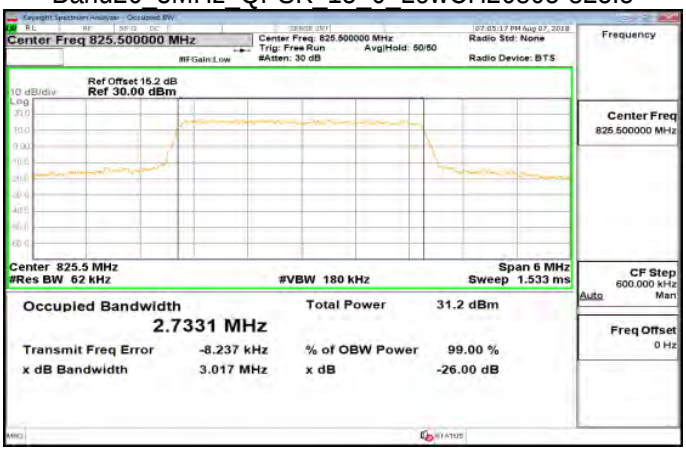
Band26_1_4MHz_16QAM_6_0_HighCH27033-848.3



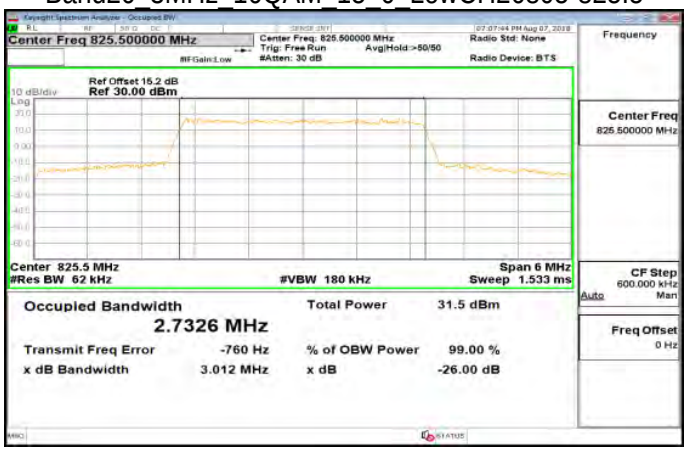
Band26_3MHz_QPSK_15_0_HighCH27025-847.5



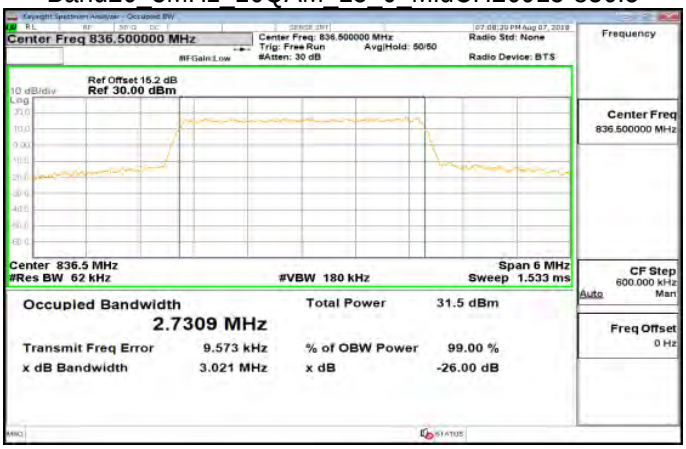
Band26_3MHz_QPSK_15_0_LowCH26805-825.5



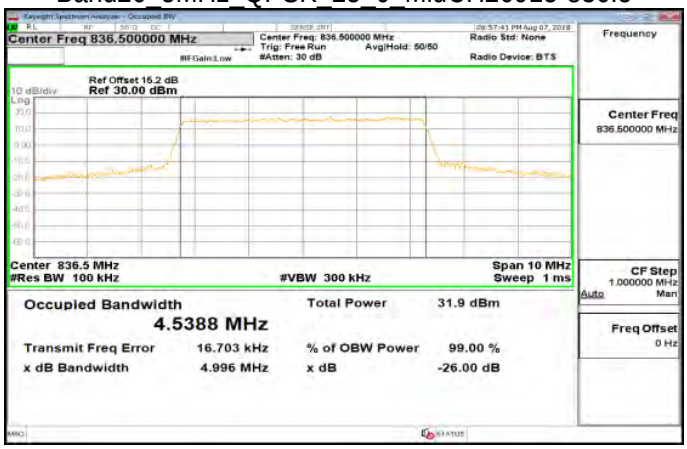
Band26_3MHz_16QAM_15_0_LowCH26805-825.5



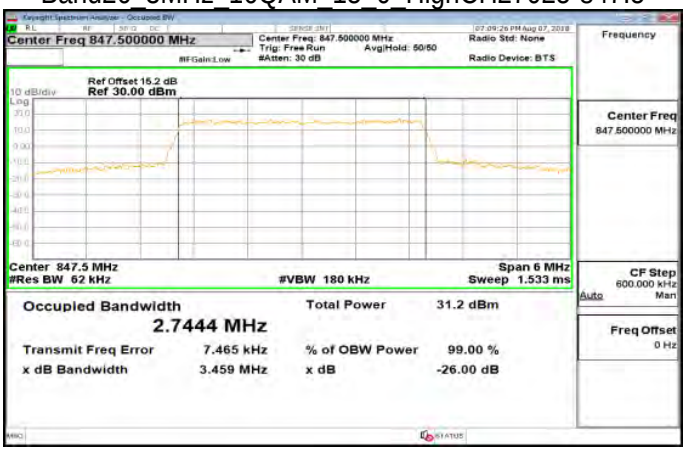
Band26_3MHz_16QAM_15_0_MidCH26915-836.5



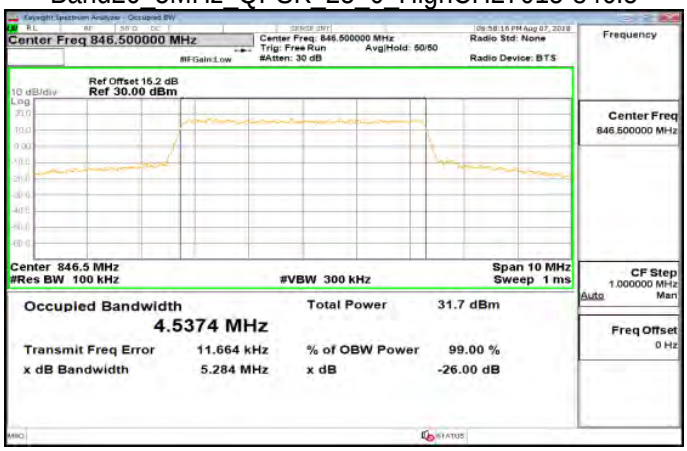
Band26_5MHz_QPSK_25_0_MidCH26915-836.5



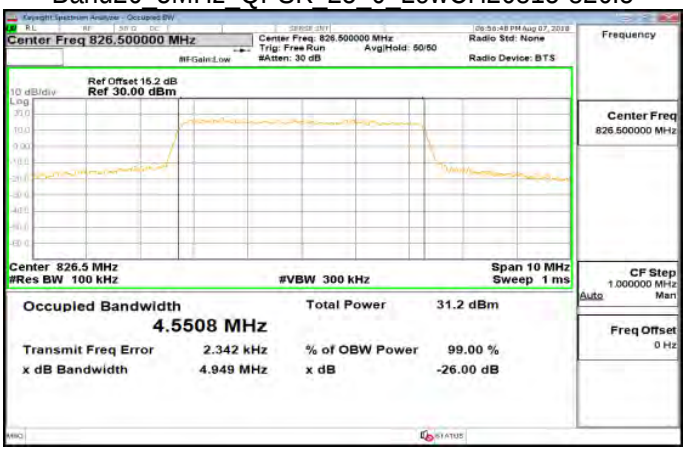
Band26_3MHz_16QAM_15_0_HighCH27025-847.5



Band26_5MHz_QPSK_25_0_HighCH27015-846.5



Band26_5MHz_QPSK_25_0_LowCH26815-826.5



Band26_5MHz_16QAM_25_0_LowCH26815-826.5