ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant:	TaiDoc Technology Corp 6F, No. 127, Wugong 2nd Rd., Wugu Dist., 24888 New Taipei City, Taiwan
Manufacturer:	TaiDoc Technology Corp B1-7F, No. 127, Wugong 2nd Rd., Wugu Dist., 24888 New Taipei City, Taiwan
Product Name:	Weight scale
Brand Name:	FORA TN'G Scale 550
Model No.:	TD-2555G, TD-2555X(X=0~9,A~F,H~Z or blank for different product exterior color and market)
Model Difference:	For different product exterior color and market
Report Number:	ER/2022/30008
FCC ID	TM72555GLTE
Issue Date:	May 6, 2022
Date of Test:	March 9, 2022~May 5, 2022
Date of EUT Received:	March 3, 2022

Approved By _____
Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 24E & 27C.

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

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

Report Number	Revision	Description	Issue Date	Revised By	Remark
ER/2022/30008	00	Original.	May 6, 2022	Susan Lin	

Note:

1、 The remark "*" indicates modification of the report upon requests from certification body.

2、 Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Weight scale
Brand Name:	FORA TN'G Scale 550
Model No.:	TD-2555G, TD-2555X(X=0~9,A~F,H~Z or blank for different product exterior color and market)
Model Difference:	For different product exterior color and market
Hardware Version:	1.10
Firmware Version:	M0F.313002
EUT Series No.:	357661790030736
Power Supply:	3.7Vdc from Li-ion Battery
Test Software (Name/Version):	Default

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1.2 Operation Frequency Range

LTE Band 2			
BW (MHz)	Operation Frequency (MHz)		
1.4	1850.7	-	1909.3
3	1851.5	-	1908.5
5	1852.5	-	1907.5
10	1855.0	-	1905.0
15	1857.5	-	1902.5
20	1860.0	-	1900.0

LTE Band 4			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1754.3
3	1711.5	-	1753.5
5	1712.5	-	1752.5
10	1715.0	-	1750.0
15	1717.5	-	1747.5
20	1720.0	-	1745.0

LTE Band 12			
BW (MHz)	Operation Frequency (MHz)		
1.4	699.7	-	715.3
3	700.5	-	714.5
5	701.5	-	713.5
10	704.0	-	711.0

LTE Band 66			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1779.3
3	1711.5	-	1778.5
5	1712.5	-	1777.5
10	1715.0	-	1775.0
15	1717.5	-	1772.5
20	1720.0	-	1770.0

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
PCB	RFA-LTE-AP785-70-65
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Type	Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
PCB	LTE-Band 2	1850	~	1910	4.97
	LTE-Band 4	1710	~	1755	4.97
	LTE-Band 12	699	~	716	0.82
	LTE-Band 66	1710	~	1780	4.97

Note: Antenna information is provided by the applicant.

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

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	1850.7	1909.3	QPSK	27.88	EIRP	0.614	1.0867	1M09G7D
				16QAM	26.90	EIRP	0.490	1.0870	1M09D7W
2	3	1851.5	1908.5	QPSK	27.89	EIRP	0.615	2.6864	2M69G7D
				16QAM	26.91	EIRP	**0.491**	2.6872	2M69D7W
2	5	1852.5	1907.5	QPSK	27.91	EIRP	0.618	4.4866	4M49G7D
				16QAM	26.87	EIRP	0.486	4.4871	4M49D7W
2	10	1855.0	1905.0	QPSK	27.92	EIRP	0.619	8.9637	8M96G7D
				16QAM	26.90	EIRP	0.490	4.6249	4M62D7W
2	15	1857.5	1902.5	QPSK	27.91	EIRP	0.618	13.427	13M4G7D
				16QAM	26.90	EIRP	0.490	1.077	1M08D7W
2	20	1860.0	1900.0	QPSK	27.96	EIRP	**0.625**	17.853	17M9G7D
				16QAM	26.89	EIRP	0.489	1.318	1M32D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
4	1.4	1710.7	1754.3	QPSK	28.09	EIRP	0.644	1.0889	1M09G7D
				16QAM	27.11	EIRP	0.514	1.0878	1M09D7W
4	3	1711.5	1753.5	QPSK	28.10	EIRP	0.646	2.6873	2M69G7D
				16QAM	27.12	EIRP	**0.515**	2.6872	2M69D7W
4	5	1712.5	1752.5	QPSK	28.11	EIRP	0.647	4.4917	4M49G7D
				16QAM	27.10	EIRP	0.513	4.4925	4M49D7W
4	10	1715.0	1750.0	QPSK	28.10	EIRP	0.646	8.9619	8M96G7D
				16QAM	27.04	EIRP	0.506	4.6286	4M63D7W
4	15	1717.5	1747.5	QPSK	28.11	EIRP	0.647	13.4200	13M4G7D
				16QAM	27.10	EIRP	0.513	1.0489	1M05D7W
4	20	1720.0	1745.0	QPSK	28.16	EIRP	**0.655**	17.8610	17M9G7D
				16QAM	27.06	EIRP	0.508	1.2985	1M30D7W

LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	699.7	715.3	QPSK	22.26	ERP	0.168	1.0862	1M09G7D
				16QAM	21.31	ERP	**0.135**	1.0854	1M09D7W
12	3	700.5	714.5	QPSK	22.26	ERP	0.168	2.6849	2M68G7D
				16QAM	21.30	ERP	0.135	2.6866	2M69D7W
12	5	701.5	713.5	QPSK	22.22	ERP	0.167	4.4847	4M48G7D
				16QAM	21.30	ERP	0.135	4.4870	4M49D7W
12	10	704.0	711.0	QPSK	22.36	ERP	**0.172**	8.9585	8M96G7D
				16QAM	21.29	ERP	0.135	4.5987	4M60D7W
LTE Band	BW	Frequency		Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
66	1.4	1710.7	1779.3	QPSK	28.02	EIRP	0.634	1.0885	1M09G7D
				16QAM	27.02	EIRP	**0.504**	1.0886	1M09D7W
66	3	1711.5	1778.5	QPSK	28.02	EIRP	0.634	2.6859	2M69G7D
				16QAM	26.99	EIRP	0.500	2.6889	2M69D7W
66	5	1712.5	1777.5	QPSK	27.96	EIRP	0.625	4.4909	4M49G7D
				16QAM	27.01	EIRP	0.502	4.4880	4M49D7W
66	10	1715.0	1775.0	QPSK	27.97	EIRP	0.627	8.9668	8M97G7D
				16QAM	27.02	EIRP	**0.504**	4.6417	4M64D7W
66	15	1717.5	1772.5	QPSK	28.02	EIRP	0.634	13.4340	13M4G7D
				16QAM	27.00	EIRP	0.501	1.0454	1M05D7W
66	20	1720.0	1770.0	QPSK	28.07	EIRP	**0.641**	17.8420	17M8G7D
				16QAM	26.98	EIRP	0.499	1.2980	1M30D7W

1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 24E, 27C
ANSI C63.26-2015
KDB971168 D01 Power Meas license Digital System v03r01
KDB412172 D01 Determining ERP and EIRP v01r01

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1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

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.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)
LB(1GHz below)	4.68	10	14.68
MB(1GHz - 2GHz)	5.69	10	15.69

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2.5 Final Amplifier Voltage and Current Information:

LTE Band 2

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	3.7	**550**

LTE Band 4

Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_20M QPSK	3.7	**620**

LTE Band 12

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	3.7	**580**

LTE Band 66

Test mode	**DC voltage (V)**	DC current (mA)
LTE Band 66_20M QPSK	3.7	**630**

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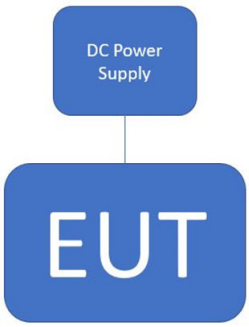
2.6 Test Configuration

Conducted Setup	Radiated Setup
	

Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

Test Items				Max. Output Power												
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
12	v	v	v	v	v	v	v	-	-	v	v	-	-	v	v	v
66	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
Test Items				Freqency Stability												
2	-	v	-	-	-	-	v	-	-	v	-	-	-	-	-	v
4	-	v	-	-	-	-	v	-	-	v	-	-	-	-	-	v
12	-	v	-	-	-	-	v	-	-	v	-	-	-	-	-	v
66	-	v	-	-	-	-	v	-	-	v	-	-	-	-	-	v
Test Items				26dB and 99% Bandwidth												
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
4	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
12	v	v	v	v	v	v	v	-	-	v	v	-	-	v	v	v
66	v	v	v	v	v	v	v	v	v	v	v	-	-	v	v	v
Test Items				Peak-to-Av erage Ratio												
2	v	v	v	v	v	v	v	v	v	v	v	-	-	-	-	v
4	v	v	v	v	v	v	v	v	v	v	v	-	-	-	-	v
12	v	v	v	v	v	v	v	-	-	v	v	-	-	-	-	v
66	v	v	v	v	v	v	v	v	v	v	v	-	-	-	-	v
Test Items				Band Edge												
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	v	-	v	v	v	v	v	v	v	v	-	-	-	v	v	v
4	v	-	v	v	v	v	v	v	v	v	-	-	-	v	v	v
12	v	-	v	v	v	v	v	-	-	v	-	-	-	v	v	v
66	v	-	v	v	v	v	v	v	v	v	-	-	-	v	v	v
Test Items				Conducted Emission												
2	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
4	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
12	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
66	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-

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Test Items				Radiated Emission												
Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	v	v	v	-	-	-	-	-	v	v	-	-	-	v	-	-
4	v	v	v	-	-	-	-	-	v	v	-	-	-	v	-	-
12	v	v	v	-	-	-	v	-	-	v	-	-	-	v	-	-
66	v	v	v	-	-	-	-	-	v	v	-	-	-	v	-	-

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
RF Power Output	+/-	1	dB
ERP/ EIRP measurement	+/-	3	dB
	+/-	3	dB
Emission Bandwidth	+/-	1.53	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	1.68	dB
Peak to Average Ratio	+/-	1	dB
Frequency Stability vs. Temperature	+/-	1.53	Hz
Frequency Stability vs. Voltage	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	**+/-**	**2.57**	**dB**	9kHz~30MHz
	+/-	**4.85**	**dB**	30MHz - 1000MHz
	+/-	**4.45**	**dB**	1GHz - 18GHz
	+/-	**4.24**	**dB**	18GHz - 40GHz
Polarization: Horizontal	**+/-**	**2.57**	**dB**	9kHz~30MHz
	+/-	**4.37**	**dB**	30MHz - 1000MHz
	+/-	**4.45**	**dB**	1GHz - 18GHz
	+/-	**4.24**	**dB**	18GHz - 40GHz

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY53400256	11/12/2021	11/11/2022
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/03/2021	12/02/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/14/2021	12/13/2022

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6.2 Radiated Measurement

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Bi-log Antenna	SCHWARZBECK	VULB9168	300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/18/2021	05/17/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/02/2021	08/01/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Signal Generator	R&S	SMBV100A	263084	01/11/2022	01/10/2023
Pre-Amplifier	HP	8449B	3008A00578	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A07676	12/16/2021	12/15/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Filter 635-920	Micro-Tronics	WI	4	12/14/2021	12/13/2022
Filter 800-1000	Micro-Tronics	EWT	M1	12/14/2021	12/13/2022
Filter 1700-2000	Micro-Tronics	EWT	M3	12/14/2021	12/13/2022
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/14/2021	12/13/2022
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2021	12/15/2022
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022
Site Cal	SGS	SAC 3	N/A	01/01/2022	12/31/2022

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7 MAXMUM OUTPUT POWER

7.1 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.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

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

FCC 27.50(d)

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

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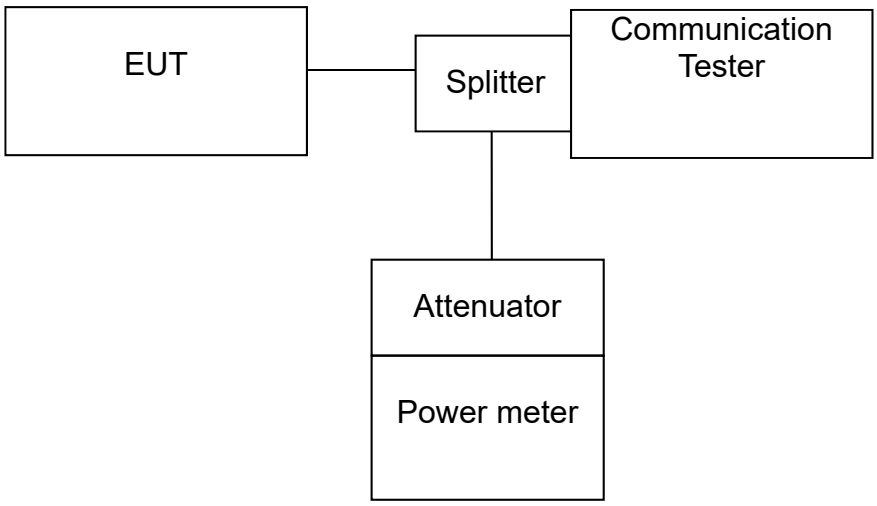
7.2 Test Set-up



Note: *Measurement setup for testing on Antenna connector*

7.3 Output Power Measurement Applicable Guideance

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.
KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.
All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$,

$ERP = EIRP - 2.15$,

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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7.5 Measurement Results:

Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.83	27.80	33	-5.2
				1	5	22.87	27.84	33	-5.16
				3	2	22.86	27.83	33	-5.17
				6	0	21.81	26.78	33	-6.22
	18900	1880	QPSK	1	0	22.88	27.85	33	-5.15
				1	5	22.86	27.83	33	-5.17
				3	2	22.79	27.76	33	-5.24
				6	0	21.93	26.90	33	-6.1
	19193	1909.3	QPSK	1	0	22.78	27.75	33	-5.25
				1	5	22.80	27.77	33	-5.23
				3	2	22.91	**27.88**	33	-5.12
				6	0	21.89	26.86	33	-6.14
1.4	18607	1850.7	16QAM	1	0	21.85	26.82	33	-6.18
				1	5	21.87	26.84	33	-6.16
				3	2	21.93	**26.90**	33	-6.1
				6	0	20.79	25.76	33	-7.24
	18900	1880	16QAM	1	0	21.81	26.78	33	-6.22
				1	5	21.89	26.86	33	-6.14
				3	2	21.91	26.88	33	-6.12
				6	0	20.80	25.77	33	-7.23
	19193	1909.3	16QAM	1	0	21.79	26.76	33	-6.24
				1	5	21.89	26.86	33	-6.14
				3	2	21.78	26.75	33	-6.25
				6	0	20.91	25.88	33	-7.12

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Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.90	27.87	33	-5.13
				1	14	22.79	27.76	33	-5.24
				8	4	21.79	26.76	33	-6.24
				15	0	21.88	26.85	33	-6.15
	18900	1880	QPSK	1	0	22.81	27.78	33	-5.22
				1	14	22.81	27.78	33	-5.22
				8	4	21.93	26.90	33	-6.1
				15	0	21.90	26.87	33	-6.13
	19185	1908.5	QPSK	1	0	22.92	**27.89**	33	-5.11
				1	14	22.77	27.74	33	-5.26
				8	4	21.83	26.80	33	-6.2
				15	0	21.84	26.81	33	-6.19
3	18615	1851.5	16QAM	1	0	21.83	26.80	33	-6.2
				1	14	21.76	26.73	33	-6.27
				8	4	20.84	25.81	33	-7.19
				15	0	20.80	25.77	33	-7.23
	18900	1880	16QAM	1	0	21.92	26.89	33	-6.11
				1	14	21.94	**26.91**	33	-6.09
				8	4	20.90	25.87	33	-7.13
				15	0	20.84	25.81	33	-7.19
	19185	1908.5	16QAM	1	0	21.82	26.79	33	-6.21
				1	14	21.86	26.83	33	-6.17
				8	4	20.89	25.86	33	-7.14
				15	0	20.77	25.74	33	-7.26

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Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.75	27.72	33	-5.28
				1	24	22.94	**27.91**	33	-5.09
				12	6	21.78	26.75	33	-6.25
				25	0	21.76	26.73	33	-6.27
	18900	1880	QPSK	1	0	22.94	**27.91**	33	-5.09
				1	24	22.91	27.88	33	-5.12
				12	6	21.76	26.73	33	-6.27
				25	0	21.92	26.89	33	-6.11
	19175	1907.5	QPSK	1	0	22.77	27.74	33	-5.26
				1	24	22.81	27.78	33	-5.22
				12	6	21.76	26.73	33	-6.27
				25	0	21.79	26.76	33	-6.24
5	18625	1852.5	16QAM	1	0	21.78	26.75	33	-6.25
				1	24	21.76	26.73	33	-6.27
				12	6	20.86	25.83	33	-7.17
				25	0	20.93	25.90	33	-7.1
	18900	1880	16QAM	1	0	21.80	26.77	33	-6.23
				1	24	21.79	26.76	33	-6.24
				12	6	20.91	25.88	33	-7.12
				25	0	20.83	25.80	33	-7.2
	19175	1907.5	16QAM	1	0	21.90	**26.87**	33	-6.13
				1	24	21.81	26.78	33	-6.22
				12	6	20.88	25.85	33	-7.15
				25	0	20.89	25.86	33	-7.14

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Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.88	27.85	33	-5.15
				1	49	22.82	27.79	33	-5.21
				25	12	21.93	26.90	33	-6.1
				50	0	21.90	26.87	33	-6.13
	18900	1880	QPSK	1	0	22.81	27.78	33	-5.22
				1	49	22.95	**27.92**	33	-5.08
				25	12	21.89	26.86	33	-6.14
				50	0	21.81	26.78	33	-6.22
	19150	1905	QPSK	1	0	22.89	27.86	33	-5.14
				1	49	22.93	27.90	33	-5.1
				25	12	21.91	26.88	33	-6.12
				50	0	21.85	26.82	33	-6.18
10	18650	1855	16QAM	1	0	21.90	26.87	33	-6.13
				1	49	21.88	26.85	33	-6.15
				25	12	20.94	25.91	33	-7.09
				50	0	N/A	N/A	N/A	N/A
	18900	1880	16QAM	1	0	21.80	26.77	33	-6.23
				1	49	21.80	26.77	33	-6.23
				25	12	20.89	25.86	33	-7.14
				50	0	N/A	N/A	N/A	N/A
	19150	1905	16QAM	1	0	21.93	**26.90**	33	-6.1
				1	49	21.91	26.88	33	-6.12
				25	12	20.80	25.77	33	-7.23
				50	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.88	27.85	33	-5.15
				1	74	22.87	27.84	33	-5.16
				36	18	21.89	26.86	33	-6.14
				75	0	21.88	26.85	33	-6.15
	18900	1880	QPSK	1	0	22.94	**27.91**	33	-5.09
				1	74	22.79	27.76	33	-5.24
				36	18	21.92	26.89	33	-6.11
				75	0	21.86	26.83	33	-6.17
	19125	1902.5	QPSK	1	0	22.93	27.90	33	-5.1
				1	74	22.80	27.77	33	-5.23
				36	18	21.86	26.83	33	-6.17
				75	0	21.77	26.74	33	-6.26
15	18675	1857.5	16QAM	1	0	21.84	26.81	33	-6.19
				1	74	21.93	**26.90**	33	-6.1
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	18900	1880	16QAM	1	0	21.87	26.84	33	-6.16
				1	74	21.87	26.84	33	-6.16
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	19125	1902.5	16QAM	1	0	21.89	26.86	33	-6.14
				1	74	21.91	26.88	33	-6.12
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.98	27.95	33	-5.05
				1	99	22.82	27.79	33	-5.21
				50	25	21.84	26.81	33	-6.19
				100	0	21.82	26.79	33	-6.21
	18900	1880	QPSK	1	0	22.99	**27.96**	33	-5.04
				1	99	22.86	27.83	33	-5.17
				50	25	21.80	26.77	33	-6.23
				100	0	21.88	26.85	33	-6.15
	19100	1900	QPSK	1	0	22.96	27.93	33	-5.07
				1	99	22.84	27.81	33	-5.19
				50	25	21.77	26.74	33	-6.26
				100	0	21.81	26.78	33	-6.22
20	18700	1860	16QAM	1	0	21.82	26.79	33	-6.21
				1	99	21.92	**26.89**	33	-6.11
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	18900	1880	16QAM	1	0	21.85	26.82	33	-6.18
				1	99	21.84	26.81	33	-6.19
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	19100	1900	16QAM	1	0	21.85	26.82	33	-6.18
				1	99	21.89	26.86	33	-6.14
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.02	27.99	30	-2.01
				1	5	23.07	28.04	30	-1.96
				3	2	22.96	27.93	30	-2.07
				6	0	22.11	27.08	30	-2.92
	20175	1732.5	QPSK	1	0	23.06	28.03	30	-1.97
				1	5	23.01	27.98	30	-2.02
				3	2	23.10	28.07	30	-1.93
				6	0	22.10	27.07	30	-2.93
	20393	1754.3	QPSK	1	0	23.12	**28.09**	30	-1.91
				1	5	22.96	27.93	30	-2.07
				3	2	23.04	28.01	30	-1.99
				6	0	22.13	27.10	30	-2.9
1.4	19957	1710.7	16QAM	1	0	22.08	27.05	30	-2.95
				1	5	22.05	27.02	30	-2.98
				3	2	22.14	**27.11**	30	-2.89
				6	0	21.12	26.09	30	-3.91
	20175	1732.5	16QAM	1	0	22.10	27.07	30	-2.93
				1	5	21.98	26.95	30	-3.05
				3	2	22.00	26.97	30	-3.03
				6	0	21.09	26.06	30	-3.94
	20393	1754.3	16QAM	1	0	22.06	27.03	30	-2.97
				1	5	22.13	27.10	30	-2.9
				3	2	22.02	26.99	30	-3.01
				6	0	21.04	26.01	30	-3.99

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Antenna gain (dBi)	4.97

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.02	27.99	30	-2.01
				1	14	23.08	28.05	30	-1.95
				8	4	22.01	26.98	30	-3.02
				15	0	21.95	26.92	30	-3.08
	20175	1732.5	QPSK	1	0	23.04	28.01	30	-1.99
				1	14	23.12	28.09	30	-1.91
				8	4	22.02	26.99	30	-3.01
				15	0	22.04	27.01	30	-2.99
	20385	1753.5	QPSK	1	0	23.10	28.07	30	-1.93
				1	14	23.13	**28.10**	30	-1.9
				8	4	22.08	27.05	30	-2.95
				15	0	22.05	27.02	30	-2.98
3	19965	1711.5	16QAM	1	0	22.12	27.09	30	-2.91
				1	14	22.08	27.05	30	-2.95
				8	4	21.03	26.00	30	-4
				15	0	21.01	25.98	30	-4.02
	20175	1732.5	16QAM	1	0	22.13	27.10	30	-2.9
				1	14	21.96	26.93	30	-3.07
				8	4	21.13	26.10	30	-3.9
				15	0	21.06	26.03	30	-3.97
	20385	1753.5	16QAM	1	0	22.11	27.08	30	-2.92
				1	14	22.15	**27.12**	30	-2.88
				8	4	21.15	26.12	30	-3.88
				15	0	21.02	25.99	30	-4.01

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Antenna gain (dBi)	4.97

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.10	28.07	30	-1.93
				1	24	23.14	**28.11**	30	-1.89
				12	6	22.11	27.08	30	-2.92
				25	0	21.97	26.94	30	-3.06
	20175	1732.5	QPSK	1	0	23.14	**28.11**	30	-1.89
				1	24	22.98	27.95	30	-2.05
				12	6	22.04	27.01	30	-2.99
				25	0	22.11	27.08	30	-2.92
	20375	1752.5	QPSK	1	0	23.14	**28.11**	30	-1.89
				1	24	23.10	28.07	30	-1.93
				12	6	22.00	26.97	30	-3.03
				25	0	22.00	26.97	30	-3.03
5	19975	1712.5	16QAM	1	0	22.13	**27.10**	30	-2.9
				1	24	22.04	27.01	30	-2.99
				12	6	20.99	25.96	30	-4.04
				25	0	20.97	25.94	30	-4.06
	20175	1732.5	16QAM	1	0	21.95	26.92	30	-3.08
				1	24	22.11	27.08	30	-2.92
				12	6	21.03	26.00	30	-4
				25	0	21.11	26.08	30	-3.92
	20375	1752.5	16QAM	1	0	22.06	27.03	30	-2.97
				1	24	22.03	27.00	30	-3
				12	6	21.14	26.11	30	-3.89
				25	0	21.02	25.99	30	-4.01

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Antenna gain (dBi)	4.97

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.13	**28.10**	30	-1.9
				1	49	23.01	27.98	30	-2.02
				25	12	22.10	27.07	30	-2.93
				50	0	22.01	26.98	30	-3.02
	20175	1732.5	QPSK	1	0	23.08	28.05	30	-1.95
				1	49	23.10	28.07	30	-1.93
				25	12	22.10	27.07	30	-2.93
				50	0	22.11	27.08	30	-2.92
	20350	1750	QPSK	1	0	23.08	28.05	30	-1.95
				1	49	22.97	27.94	30	-2.06
				25	12	22.08	27.05	30	-2.95
				50	0	22.11	27.08	30	-2.92
10	20000	1715	16QAM	1	0	22.06	27.03	30	-2.97
				1	49	21.97	26.94	30	-3.06
				25	12	21.01	25.98	30	-4.02
				50	0	N/A	N/A	N/A	N/A
	20175	1732.5	16QAM	1	0	22.07	**27.04**	30	-2.96
				1	49	21.96	26.93	30	-3.07
				25	12	20.99	25.96	30	-4.04
				50	0	N/A	N/A	N/A	N/A
	20350	1750	16QAM	1	0	21.96	26.93	30	-3.07
				1	49	22.00	26.97	30	-3.03
				25	12	20.95	25.92	30	-4.08
				50	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.10	28.07	30	-1.93
				1	74	22.98	27.95	30	-2.05
				36	18	21.97	26.94	30	-3.06
				75	0	22.14	27.11	30	-2.89
	20175	1732.5	QPSK	1	0	23.08	28.05	30	-1.95
				1	74	22.98	27.95	30	-2.05
				36	18	22.00	26.97	30	-3.03
				75	0	22.12	27.09	30	-2.91
	20325	1747.5	QPSK	1	0	23.14	**28.11**	30	-1.89
				1	74	23.02	27.99	30	-2.01
				36	18	22.07	27.04	30	-2.96
				75	0	22.07	27.04	30	-2.96
15	20025	1717.5	16QAM	1	0	22.04	27.01	30	-2.99
				1	74	21.99	26.96	30	-3.04
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	20175	1732.5	16QAM	1	0	22.13	**27.10**	30	-2.9
				1	74	22.02	26.99	30	-3.01
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	20325	1747.5	16QAM	1	0	22.05	27.02	30	-2.98
				1	74	21.96	26.93	30	-3.07
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

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	22.17	27.14	30	-2.86
				1	99	23.11	28.08	30	-1.92
				50	25	22.05	27.02	30	-2.98
				100	0	21.98	26.95	30	-3.05
	20175	1732.5	QPSK	1	0	23.15	28.12	30	-1.88
				1	99	23.10	28.07	30	-1.93
				50	25	22.12	27.09	30	-2.91
				100	0	22.15	27.12	30	-2.88
	20300	1745	QPSK	1	0	23.19	**28.16**	30	-1.84
				1	99	22.97	27.94	30	-2.06
				50	25	22.05	27.02	30	-2.98
				100	0	22.05	27.02	30	-2.98
20	20050	1720	16QAM	1	0	22.03	27.00	30	-3
				1	99	22.05	27.02	30	-2.98
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	20175	1732.5	16QAM	1	0	22.02	26.99	30	-3.01
				1	99	22.02	26.99	30	-3.01
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	20300	1745	16QAM	1	0	22.09	**27.06**	30	-2.94
				1	99	21.96	26.93	30	-3.07
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	0.82

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.54	22.21	24.36	34.77	-12.56
				1	5	23.50	22.17	24.32	34.77	-12.60
				3	2	23.55	22.22	24.37	34.77	-12.55
				6	0	22.60	21.27	23.42	34.77	-13.50
	23095	707.5	QPSK	1	0	23.59	**22.26**	24.41	34.77	-12.51
				1	5	23.55	22.22	24.37	34.77	-12.55
				3	2	23.52	22.19	24.34	34.77	-12.58
				6	0	22.54	21.21	23.36	34.77	-13.56
	23173	715.5	QPSK	1	0	23.48	22.15	24.30	34.77	-12.62
				1	5	23.52	22.19	24.34	34.77	-12.58
				3	2	23.48	22.15	24.30	34.77	-12.62
				6	0	22.45	21.12	23.27	34.77	-13.65
1.4	23017	699.7	16QAM	1	0	22.62	21.29	23.44	34.77	-13.48
				1	5	22.56	21.23	23.38	34.77	-13.54
				3	2	22.47	21.14	23.29	34.77	-13.63
				6	0	21.54	20.21	22.36	34.77	-14.56
	23095	707.5	16QAM	1	0	22.50	21.17	23.32	34.77	-13.60
				1	5	22.61	21.28	23.43	34.77	-13.49
				3	2	22.55	21.22	23.37	34.77	-13.55
				6	0	21.49	20.16	22.31	34.77	-14.61
	23173	715.5	16QAM	1	0	22.61	21.28	23.43	34.77	-13.49
				1	5	22.61	21.28	23.43	34.77	-13.49
				3	2	22.64	**21.31**	23.46	34.77	-13.46
				6	0	21.45	20.12	22.27	34.77	-14.65

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Antenna gain (dBi)	0.82

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.51	22.18	24.33	34.77	-12.59
				1	14	23.58	22.25	24.40	34.77	-12.52
				8	4	22.65	21.32	23.47	34.77	-13.45
				15	0	22.48	21.15	23.30	34.77	-13.62
	23095	707.5	QPSK	1	0	23.57	22.24	24.39	34.77	-12.53
				1	14	23.59	**22.26**	24.41	34.77	-12.51
				8	4	22.59	21.26	23.41	34.77	-13.51
				15	0	22.56	21.23	23.38	34.77	-13.54
	23165	714.5	QPSK	1	0	23.53	22.20	24.35	34.77	-12.57
				1	14	23.50	22.17	24.32	34.77	-12.60
				8	4	22.54	21.21	23.36	34.77	-13.56
				15	0	22.49	21.16	23.31	34.77	-13.61
3	23025	700.5	16QAM	1	0	22.46	21.13	23.28	34.77	-13.64
				1	14	22.50	21.17	23.32	34.77	-13.60
				8	4	21.62	20.29	22.44	34.77	-14.48
				15	0	21.63	20.30	22.45	34.77	-14.47
	23095	707.5	16QAM	1	0	22.46	21.13	23.28	34.77	-13.64
				1	14	22.57	21.24	23.39	34.77	-13.53
				8	4	21.50	20.17	22.32	34.77	-14.60
				15	0	21.47	20.14	22.29	34.77	-14.63
	23165	714.5	16QAM	1	0	22.63	**21.30**	23.45	34.77	-13.47
				1	14	22.58	21.25	23.40	34.77	-13.52
				8	4	21.65	20.32	22.47	34.77	-14.45
				15	0	21.47	20.14	22.29	34.77	-14.63

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Antenna gain (dBi)	0.82

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.55	**22.22**	24.37	34.77	-12.55
				1	24	23.46	22.13	24.28	34.77	-12.64
				12	6	22.46	21.13	23.28	34.77	-13.64
				25	0	22.59	21.26	23.41	34.77	-13.51
	23095	707.5	QPSK	1	0	23.47	22.14	24.29	34.77	-12.63
				1	24	23.49	22.16	24.31	34.77	-12.61
				12	6	22.51	21.18	23.33	34.77	-13.59
				25	0	22.49	21.16	23.31	34.77	-13.61
	23155	713.5	QPSK	1	0	23.49	22.16	24.31	34.77	-12.61
				1	24	23.45	22.12	24.27	34.77	-12.65
				12	6	22.65	21.32	23.47	34.77	-13.45
				25	0	22.50	21.17	23.32	34.77	-13.60
5	23035	701.5	16QAM	1	0	22.48	21.15	23.30	34.77	-13.62
				1	24	22.54	21.21	23.36	34.77	-13.56
				12	6	21.50	20.17	22.32	34.77	-14.60
				25	0	21.56	20.23	22.38	34.77	-14.54
	23095	707.5	16QAM	1	0	22.49	21.16	23.31	34.77	-13.61
				1	24	22.63	**21.30**	23.45	34.77	-13.47
				12	6	21.65	20.32	22.47	34.77	-14.45
				25	0	21.46	20.13	22.28	34.77	-14.64
	23155	713.5	16QAM	1	0	22.61	21.28	23.43	34.77	-13.49
				1	24	22.63	**21.30**	23.45	34.77	-13.47
				12	6	21.52	20.19	22.34	34.77	-14.58
				25	0	21.50	20.17	22.32	34.77	-14.60

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Antenna gain (dBi)	0.82

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.69	**22.36**	24.51	34.77	-12.41
				1	49	23.51	22.18	24.33	34.77	-12.59
				25	12	22.49	21.16	23.31	34.77	-13.61
				50	0	22.53	21.20	23.35	34.77	-13.57
	23095	707.5	QPSK	1	0	23.66	22.33	24.48	34.77	-12.44
				1	49	23.52	22.19	24.34	34.77	-12.58
				25	12	22.60	21.27	23.42	34.77	-13.50
				50	0	22.50	21.17	23.32	34.77	-13.60
	23130	711	QPSK	1	0	23.65	22.32	24.47	34.77	-12.45
				1	49	23.59	22.26	24.41	34.77	-12.51
				25	12	22.47	21.14	23.29	34.77	-13.63
				50	0	22.52	21.19	23.34	34.77	-13.58
10	23060	704	16QAM	1	0	22.60	21.27	23.42	34.77	-13.50
				1	49	22.49	21.16	23.31	34.77	-13.61
				25	12	21.53	20.20	22.35	34.77	-14.57
				50	0	N/A	N/A	N/A	N/A	N/A
	23095	707.5	16QAM	1	0	22.58	21.25	23.40	34.77	-13.52
				1	49	22.51	21.18	23.33	34.77	-13.59
				25	12	21.59	20.26	22.41	34.77	-14.51
				50	0	N/A	N/A	N/A	N/A	N/A
	23130	711	16QAM	1	0	22.52	21.19	23.34	34.77	-13.58
				1	49	22.62	**21.29**	23.44	34.77	-13.48
				25	12	21.48	20.15	22.30	34.77	-14.62
				50	0	N/A	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

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	22.95	27.92	30	-2.08
				1	5	22.93	27.90	30	-2.1
				3	2	22.92	27.89	30	-2.11
				6	0	22.04	27.01	30	-2.99
	132322	1745	QPSK	1	0	23.05	**28.02**	30	-1.98
				1	5	22.88	27.85	30	-2.15
				3	2	23.01	27.98	30	-2.02
				6	0	21.93	26.90	30	-3.1
	132665	1779.3	QPSK	1	0	22.89	27.86	30	-2.14
				1	5	22.87	27.84	30	-2.16
				3	2	22.85	27.82	30	-2.18
				6	0	21.90	26.87	30	-3.13
1.4	131979	1710.7	16QAM	1	0	22.00	26.97	30	-3.03
				1	5	22.03	27.00	30	-3
				3	2	21.99	26.96	30	-3.04
				6	0	20.95	25.92	30	-4.08
	132322	1745	16QAM	1	0	22.03	27.00	30	-3
				1	5	21.94	26.91	30	-3.09
				3	2	22.05	**27.02**	30	-2.98
				6	0	21.03	26.00	30	-4
	132665	1779.3	16QAM	1	0	21.92	26.89	30	-3.11
				1	5	22.00	26.97	30	-3.03
				3	2	21.94	26.91	30	-3.09
				6	0	20.87	25.84	30	-4.16

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Antenna gain (dBi)	4.97

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	22.90	27.87	30	-2.13
				1	14	22.92	27.89	30	-2.11
				8	4	21.89	26.86	30	-3.14
				15	0	21.92	26.89	30	-3.11
	132322	1745	QPSK	1	0	22.96	27.93	30	-2.07
				1	14	22.92	27.89	30	-2.11
				8	4	21.96	26.93	30	-3.07
				15	0	21.86	26.83	30	-3.17
	132657	1778.5	QPSK	1	0	23.03	28.00	30	-2
				1	14	23.05	**28.02**	30	-1.98
				8	4	21.96	26.93	30	-3.07
				15	0	21.99	26.96	30	-3.04
3	131987	1711.5	16QAM	1	0	22.01	26.98	30	-3.02
				1	14	22.02	**26.99**	30	-3.01
				8	4	20.96	25.93	30	-4.07
				15	0	20.90	25.87	30	-4.13
	132322	1745	16QAM	1	0	21.85	26.82	30	-3.18
				1	14	21.92	26.89	30	-3.11
				8	4	20.87	25.84	30	-4.16
				15	0	21.04	26.01	30	-3.99
	132657	1778.5	16QAM	1	0	22.00	26.97	30	-3.03
				1	14	21.98	26.95	30	-3.05
				8	4	20.86	25.83	30	-4.17
				15	0	20.96	25.93	30	-4.07

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Antenna gain (dBi)	4.97

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	22.86	27.83	30	-2.17
				1	24	22.95	27.92	30	-2.08
				12	6	21.86	26.83	30	-3.17
				25	0	22.04	27.01	30	-2.99
	132322	1745	QPSK	1	0	22.88	27.85	30	-2.15
				1	24	22.99	**27.96**	30	-2.04
				12	6	21.90	26.87	30	-3.13
				25	0	21.92	26.89	30	-3.11
	132647	1777.5	QPSK	1	0	22.97	27.94	30	-2.06
				1	24	22.96	27.93	30	-2.07
				12	6	21.97	26.94	30	-3.06
				25	0	21.89	26.86	30	-3.14
5	131997	1712.5	16QAM	1	0	22.04	**27.01**	30	-2.99
				1	24	21.92	26.89	30	-3.11
				12	6	20.86	25.83	30	-4.17
				25	0	21.03	26.00	30	-4
	132322	1745	16QAM	1	0	21.93	26.90	30	-3.1
				1	24	21.94	26.91	30	-3.09
				12	6	20.93	25.90	30	-4.1
				25	0	20.87	25.84	30	-4.16
	132647	1777.5	16QAM	1	0	22.00	26.97	30	-3.03
				1	24	22.04	**27.01**	30	-2.99
				12	6	20.94	25.91	30	-4.09
				25	0	20.98	25.95	30	-4.05

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Antenna gain (dBi)	4.97

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	22.87	27.84	30	-2.16
				1	49	23.00	**27.97**	30	-2.03
				25	12	21.94	26.91	30	-3.09
				50	0	22.02	26.99	30	-3.01
	132322	1745	QPSK	1	0	22.87	27.84	30	-2.16
				1	49	23.00	**27.97**	30	-2.03
				25	12	21.99	26.96	30	-3.04
				50	0	21.89	26.86	30	-3.14
	132622	1775	QPSK	1	0	22.85	27.82	30	-2.18
				1	49	22.94	27.91	30	-2.09
				25	12	21.98	26.95	30	-3.05
				50	0	21.95	26.92	30	-3.08
10	132022	1715	16QAM	1	0	22.05	**27.02**	30	-2.98
				1	49	21.93	26.90	30	-3.1
				25	12	21.04	26.01	30	-3.99
				50	0	N/A	N/A	N/A	N/A
	132322	1745	16QAM	1	0	22.02	26.99	30	-3.01
				1	49	21.92	26.89	30	-3.11
				25	12	20.99	25.96	30	-4.04
				50	0	N/A	N/A	N/A	N/A
	132622	1775	16QAM	1	0	21.93	26.90	30	-3.1
				1	49	22.04	27.01	30	-2.99
				25	12	20.87	25.84	30	-4.16
				50	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

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	22.99	27.96	30	-2.04
				1	74	22.93	27.90	30	-2.1
				36	18	22.04	27.01	30	-2.99
				75	0	21.96	26.93	30	-3.07
	132322	1745	QPSK	1	0	23.05	**28.02**	30	-1.98
				1	74	22.93	27.90	30	-2.1
				36	18	21.90	26.87	30	-3.13
				75	0	22.02	26.99	30	-3.01
	132597	1772.5	QPSK	1	0	23.02	27.99	30	-2.01
				1	74	23.03	28.00	30	-2
				36	18	21.87	26.84	30	-3.16
				75	0	21.93	26.90	30	-3.1
15	132047	1717.5	16QAM	1	0	21.97	26.94	30	-3.06
				1	74	21.91	26.88	30	-3.12
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	132322	1745	16QAM	1	0	21.88	26.85	30	-3.15
				1	74	21.88	26.85	30	-3.15
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A
	132597	1772.5	16QAM	1	0	22.03	**27.00**	30	-3
				1	74	21.90	26.87	30	-3.13
				36	18	N/A	N/A	N/A	N/A
				75	0	N/A	N/A	N/A	N/A

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Antenna gain (dBi)	4.97

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	23.06	28.03	30	-1.97
				1	99	22.93	27.90	30	-2.1
				50	25	21.86	26.83	30	-3.17
				100	0	21.98	26.95	30	-3.05
	132322	1745	QPSK	1	0	23.10	**28.07**	30	-1.93
				1	99	23.05	28.02	30	-1.98
				50	25	21.96	26.93	30	-3.07
				100	0	21.86	26.83	30	-3.17
	132572	1770	QPSK	1	0	23.09	28.06	30	-1.94
				1	99	22.98	27.95	30	-2.05
				50	25	21.90	26.87	30	-3.13
				100	0	21.93	26.90	30	-3.1
20	132072	1720	16QAM	1	0	21.98	26.95	30	-3.05
				1	99	21.90	26.87	30	-3.13
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	132322	1745	16QAM	1	0	21.92	26.89	30	-3.11
				1	99	22.01	**26.98**	30	-3.02
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A
	132572	1770	16QAM	1	0	21.90	26.87	30	-3.13
				1	99	21.96	26.93	30	-3.07
				50	25	N/A	N/A	N/A	N/A
				100	0	N/A	N/A	N/A	N/A

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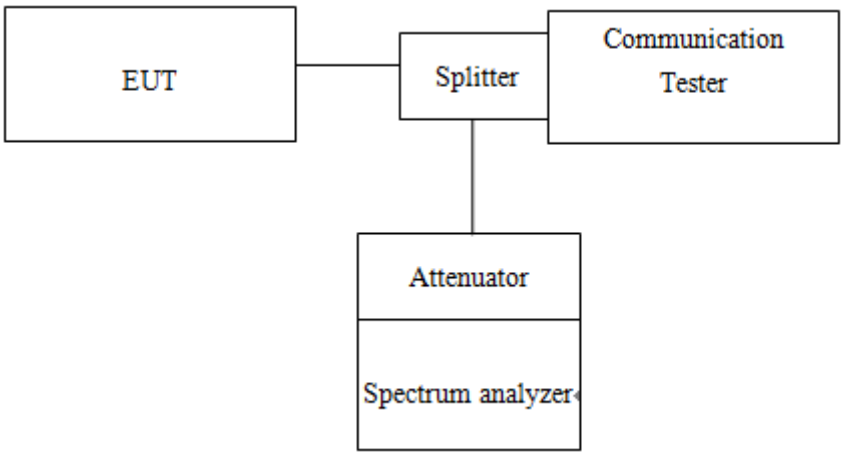
8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 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.

8.2 Test Set-up



8.3 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%.

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8.4 Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0861	1.0864	1.264	1.270
1880.0	18900	**1.0867**	1.0867	**1.275**	1.292
1909.3	19193	1.0860	**1.0870**	**1.275**	**1.293**

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6845	**2.6872**	2.964	2.957
1880.0	18900	**2.6864**	2.6852	2.959	**2.960**
1908.5	19185	2.6854	2.6854	**2.967**	2.959

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4856	4.4824	4.977	**5.000**
1880.0	18900	**4.4866**	**4.4871**	**5.032**	4.983
1907.5	19175	**4.4866**	4.4796	5.025	4.969

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	**8.9637**	4.6034	**9.851**	5.9740
1880.0	18900	8.9569	**4.6249**	9.784	**6.1820**
1905.0	19150	8.9536	4.5870	9.807	6.0790

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	**13.427**	1.0606	**14.61**	**1.4930**
1880.0	18900	13.418	**1.0767**	14.55	1.4790
1902.5	19125	13.398	1.0576	14.57	1.4210

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.841	1.2542	**19.33**	1.7550
1880.0	18900	**17.853**	1.3023	19.27	1.8030
1900.0	19100	17.839	**1.3179**	19.29	**1.8280**

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0865	1.0868	1.272	1.294
1732.5	20175	1.0871	1.0863	1.269	1.299
1754.3	20393	**1.0889**	**1.0878**	**1.293**	**1.308**

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6827	2.6858	2.954	2.958
1732.5	20175	2.6857	2.6857	**2.965**	2.958
1753.5	20385	**2.6873**	**2.6872**	2.959	**2.963**

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	4.4856	4.4856	4.986	4.995
1732.5	20175	4.4891	4.4875	4.990	**4.999**
1752.5	20375	**4.4917**	**4.4925**	**5.046**	4.998

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9579	4.6012	9.804	5.7670
1732.5	20175	8.9458	4.6021	9.834	5.9400
1750.0	20350	**8.9619**	**4.6286**	**9.908**	**6.1360**

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	**13.420**	**1.0489**	14.60	**1.4400**
1732.5	20175	13.413	0.9906	14.59	1.4170
1747.5	20325	13.411	1.0188	**14.67**	1.4350

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.842	1.2401	19.32	**1.8410**
1732.5	20175	17.856	1.2609	19.33	1.8020
1745.0	20300	**17.861**	**1.2985**	**19.42**	1.8350

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LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	**1.0862**	1.0849	1.264	1.267
707.5	23095	1.0860	1.0852	**1.271**	1.269
715.3	23173	1.0859	**1.0854**	1.260	**1.270**

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6816	2.6832	2.941	2.950
707.5	23095	**2.6849**	**2.6866**	2.944	2.945
714.5	23165	2.6810	2.6788	**2.948**	**2.952**

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4763	4.4736	4.976	4.955
707.5	23095	**4.4847**	**4.4870**	**5.001**	**5.002**
713.5	23155	4.4695	4.4676	4.942	4.911

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9252	4.5910	9.740	5.7970
707.5	23095	**8.9585**	**4.5987**	**9.816**	**6.0220**
711.0	23130	8.9333	4.5976	9.744	5.7880

LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.0869	1.0864	1.267	1.302
1745.0	132322	**1.0885**	1.0885	**1.281**	1.308
1779.3	132665	1.0878	**1.0886**	1.277	**1.313**

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.6849	2.6883	**2.968**	2.956
1745.0	132322	2.6846	**2.6889**	2.959	**2.969**
1778.5	132657	**2.6859**	2.6882	2.960	2.962

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.4852	4.4863	5.022	**5.004**
1745.0	132322	**4.4909**	**4.4880**	**5.052**	5.001
1777.5	132647	4.4849	4.4855	5.027	4.966

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	8.9527	4.6298	9.834	5.8840
1745.0	132322	**8.9668**	4.6116	9.821	**6.2270**
1775.0	132622	8.9441	**4.6417**	**9.852**	6.0670

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.397	**1.0454**	**14.63**	**1.5090**
1745.0	132322	**13.434**	1.0321	14.58	1.4890
1772.5	132597	13.433	1.0212	14.55	1.4390

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	**17.842**	**1.2980**	**19.36**	1.7910
1745.0	132322	17.838	1.2617	**19.36**	1.7660
1770.0	132572	17.836	1.2748	19.35	**1.8260**

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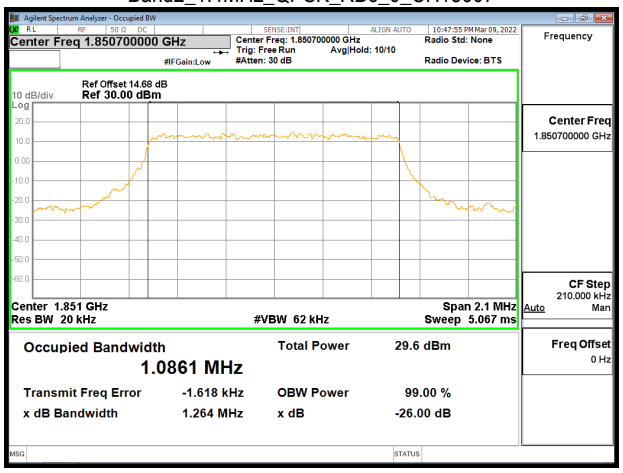
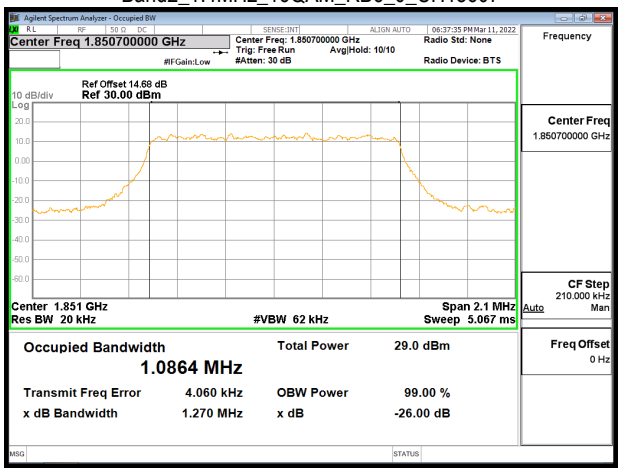
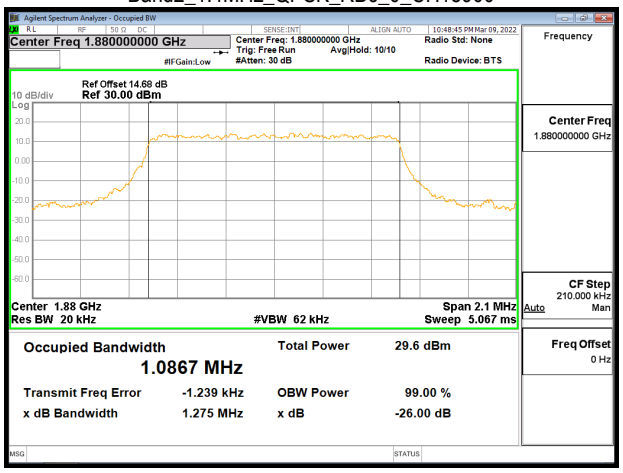
Band2_1.4MHz_QPSK_RB6_0_CH18607



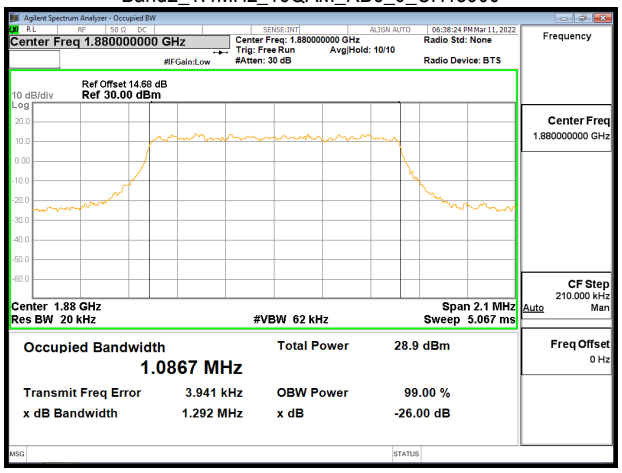
Band2_1.4MHz_16QAM_RB6_0_CH18607



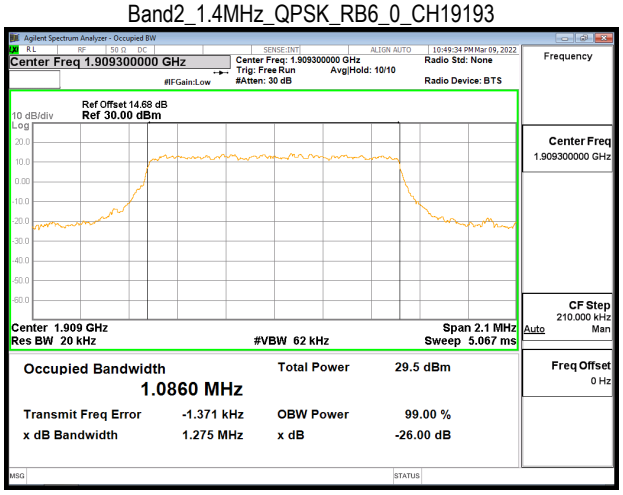
Band2_1.4MHz_QPSK_RB6_0_CH18900



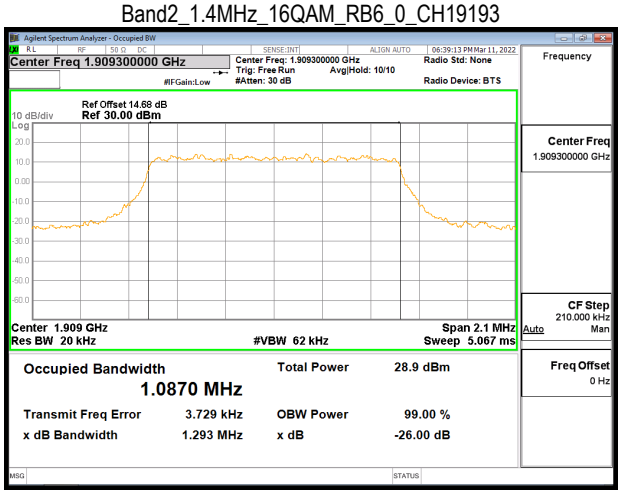
Band2_1.4MHz_16QAM_RB6_0_CH18900



Band2_1.4MHz_QPSK_RB6_0_CH19193



Band2_1.4MHz_16QAM_RB6_0_CH19193



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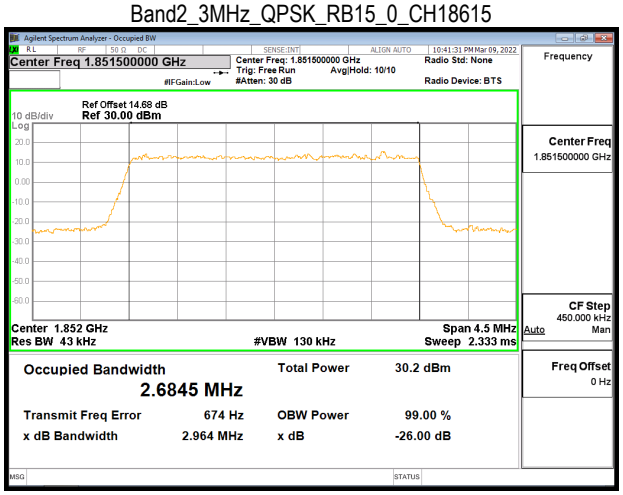
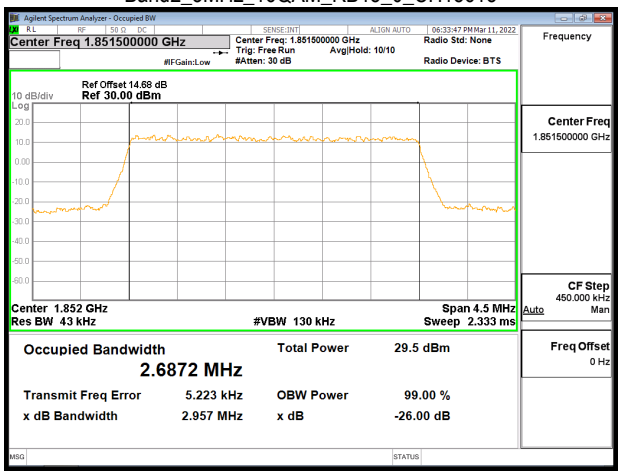
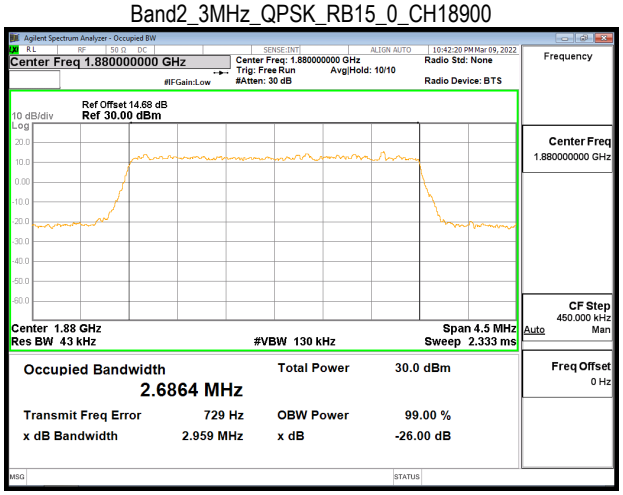
Band2_3MHz_QPSK_RB15_0_CH18615



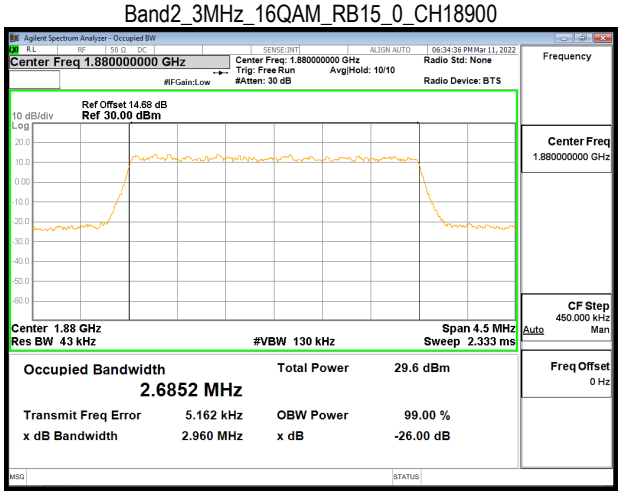
Band2_3MHz_16QAM_RB15_0_CH18615



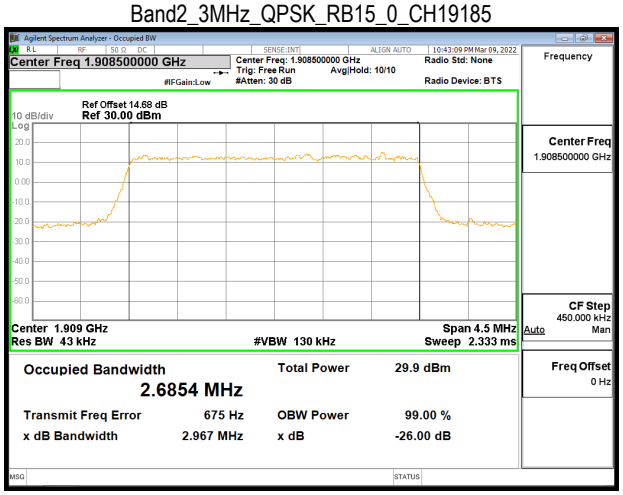
Band2_3MHz_QPSK_RB15_0_CH18900



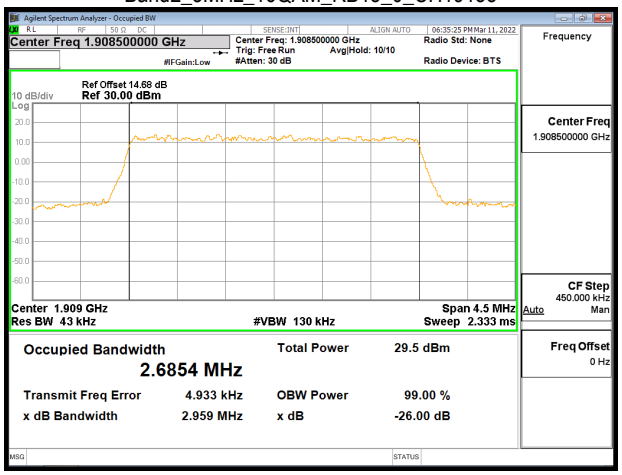
Band2_3MHz_16QAM_RB15_0_CH18900



Band2_3MHz_QPSK_RB15_0_CH19185



Band2_3MHz_16QAM_RB15_0_CH19185



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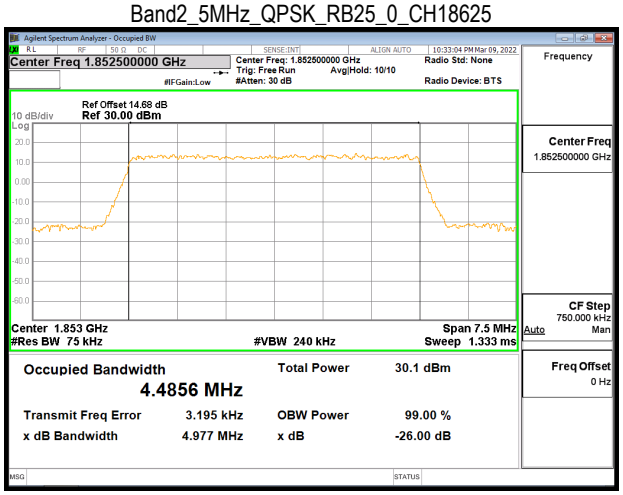
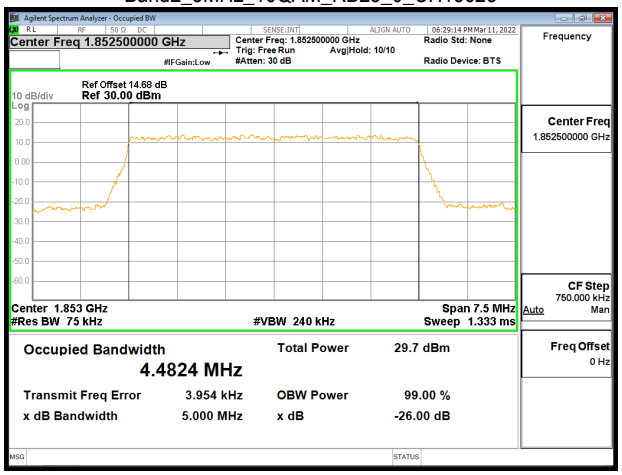
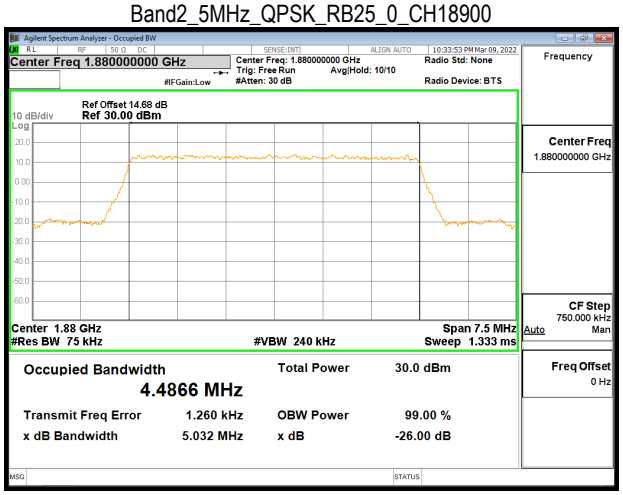
Band2_5MHz_QPSK_RB25_0_CH18625



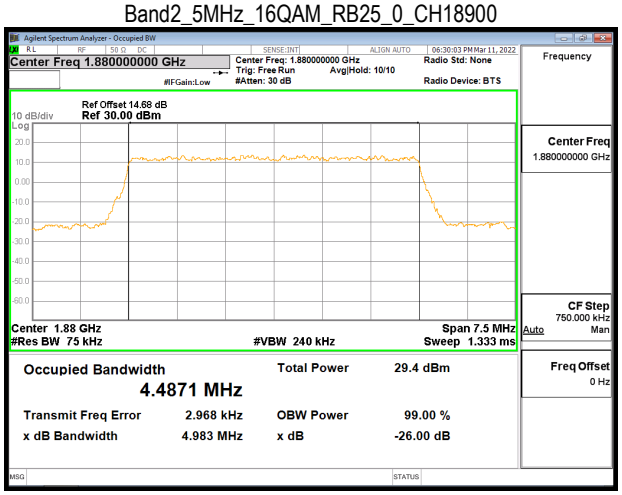
Band2_5MHz_16QAM_RB25_0_CH18625



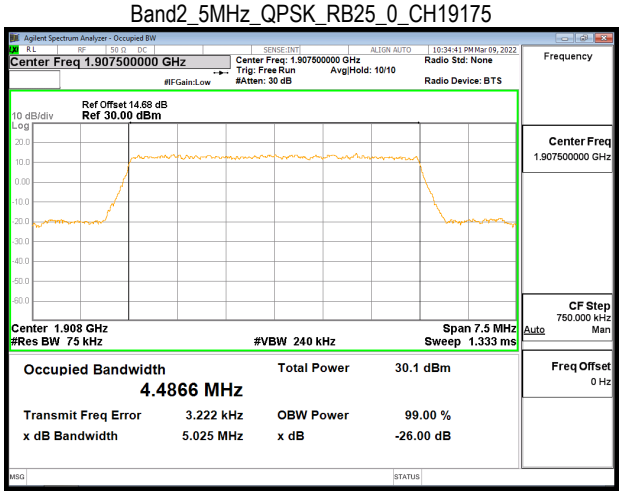
Band2_5MHz_QPSK_RB25_0_CH18900



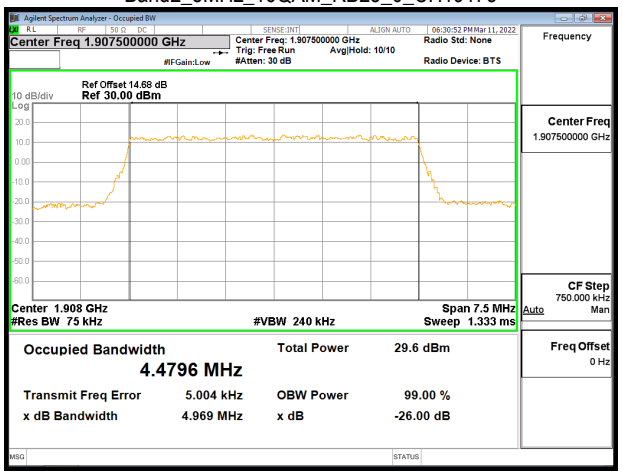
Band2_5MHz_16QAM_RB25_0_CH18900



Band2_5MHz_QPSK_RB25_0_CH19175



Band2_5MHz_16QAM_RB25_0_CH19175



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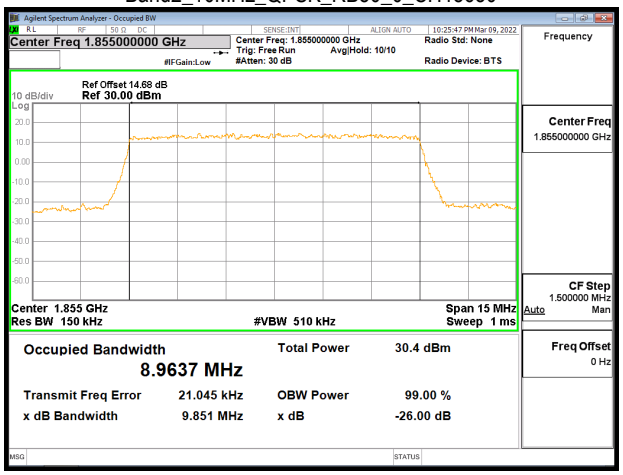
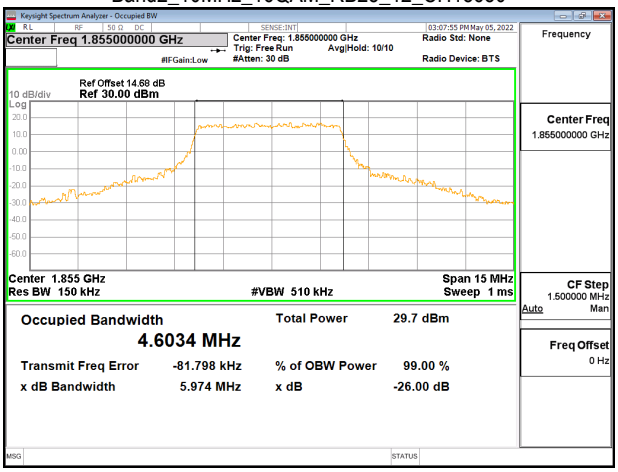
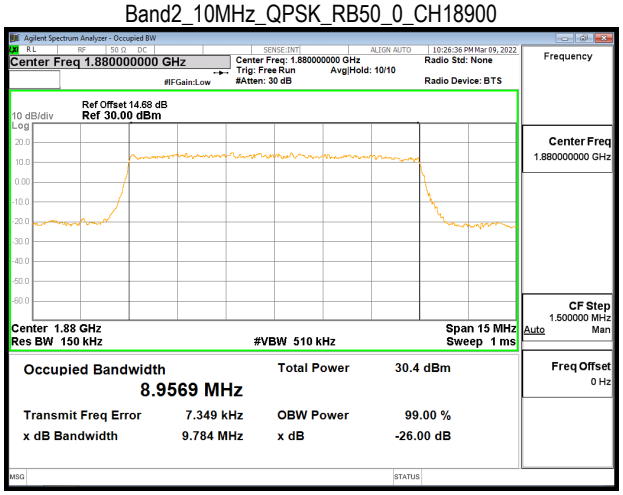
Band2_10MHz_QPSK_RB50_0_CH18650



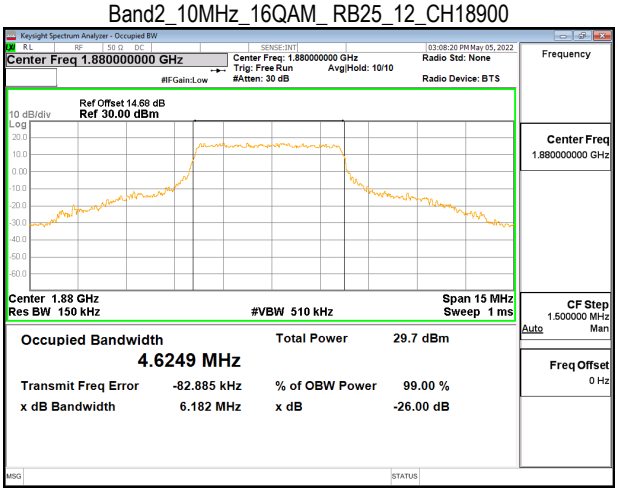
Band2_10MHz_16QAM_RB25_12_CH18650



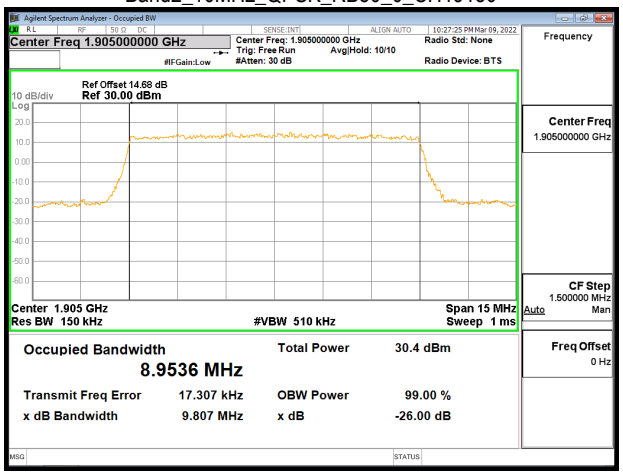
Band2_10MHz_QPSK_RB50_0_CH18900



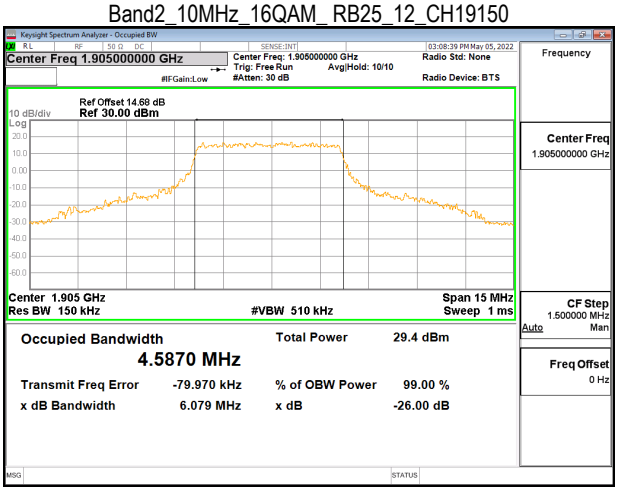
Band2_10MHz_16QAM_ RB25_12_CH18900



Band2_10MHz_QPSK_RB50_0_CH19150



Band2_10MHz_16QAM_ RB25_12_CH19150



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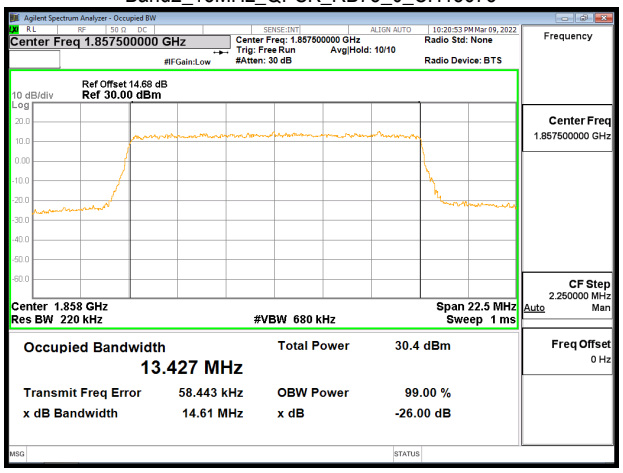
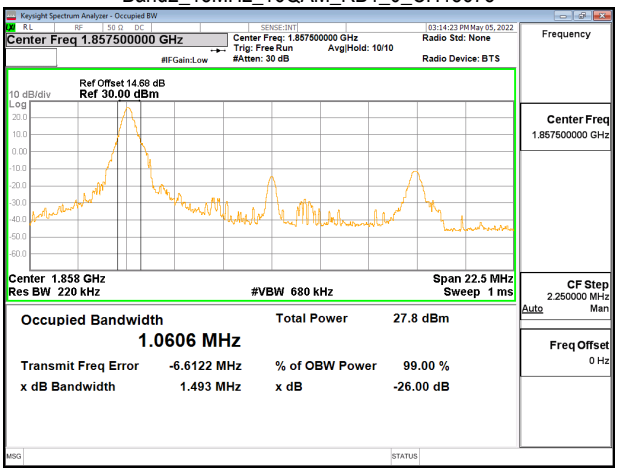
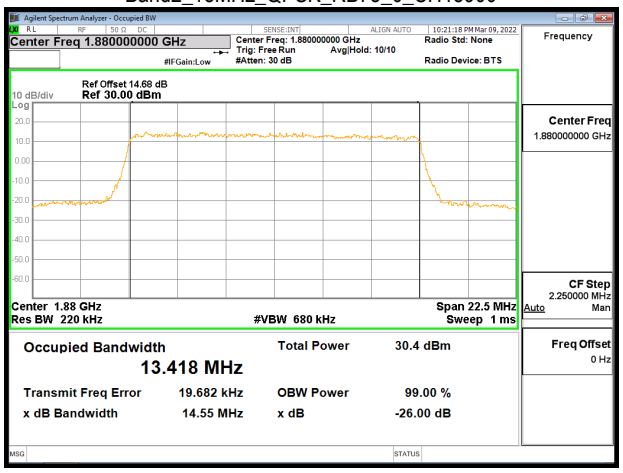
Band2_15MHz_QPSK_RB75_0_CH18675



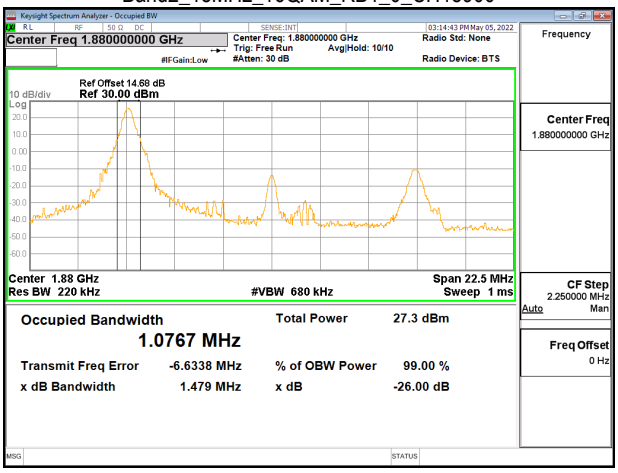
Band2_15MHz_16QAM_RB1_0_CH18675



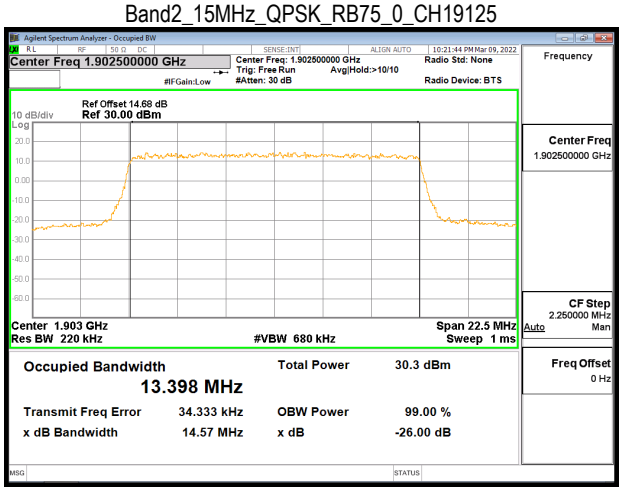
Band2_15MHz_QPSK_RB75_0_CH18900



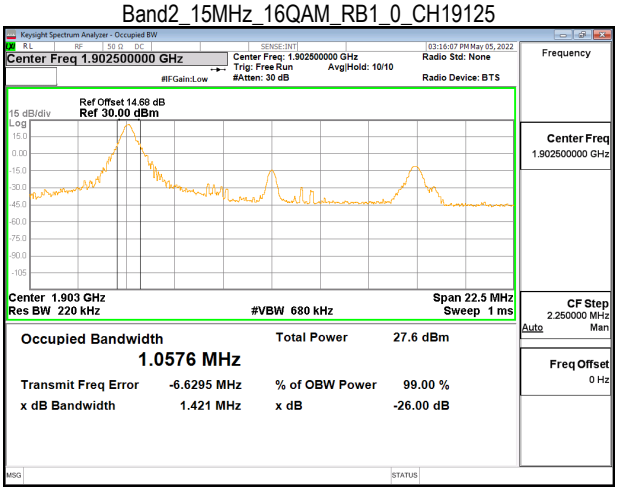
Band2_15MHz_16QAM_RB1_0_CH18900



Band2_15MHz_QPSK_RB75_0_CH19125



Band2_15MHz_16QAM_RB1_0_CH19125



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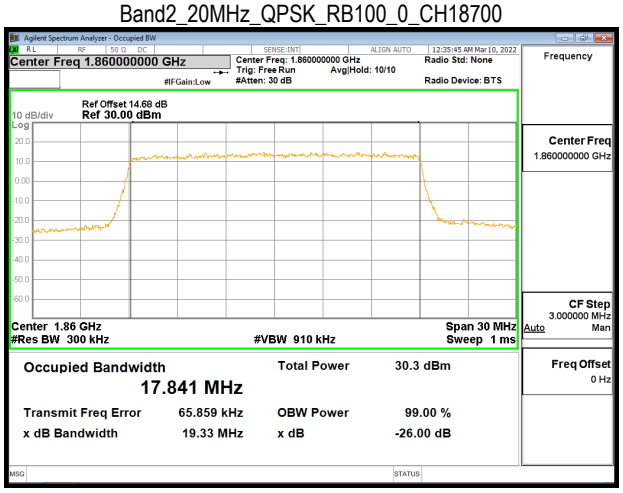
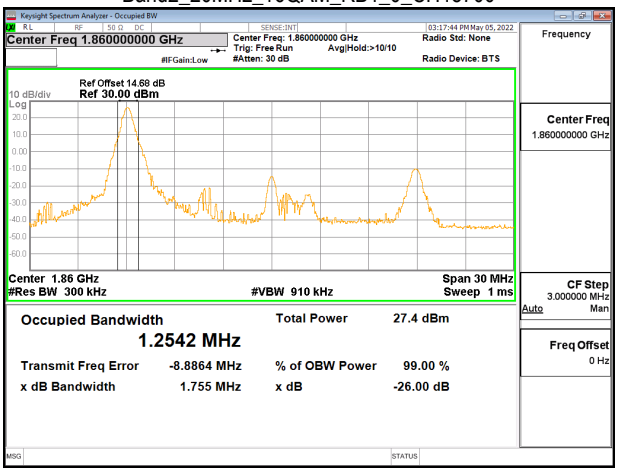
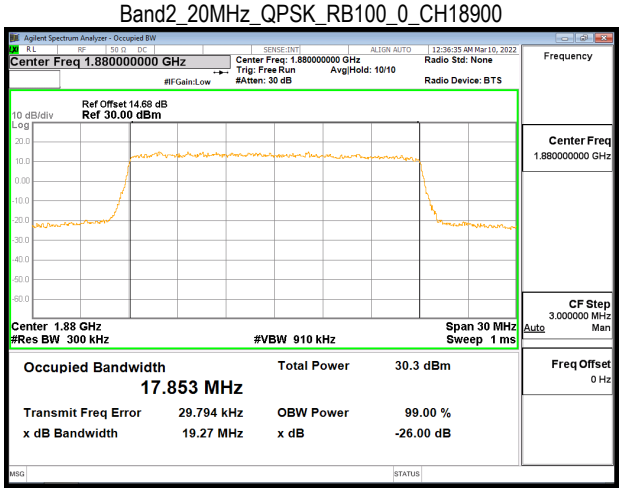
Band2_20MHz_QPSK_RB100_0_CH18700



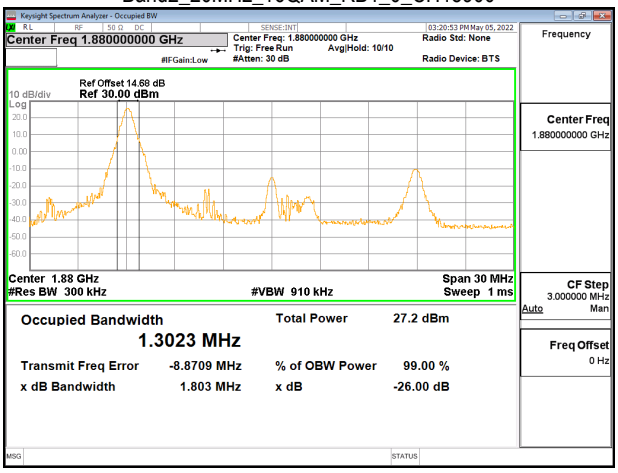
Band2_20MHz_16QAM_RB1_0_CH18700



Band2_20MHz_QPSK_RB100_0_CH18900



Band2_20MHz_16QAM_RB1_0_CH18900



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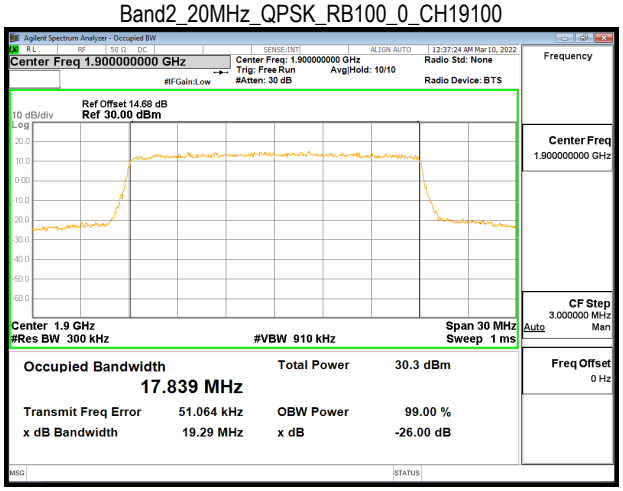
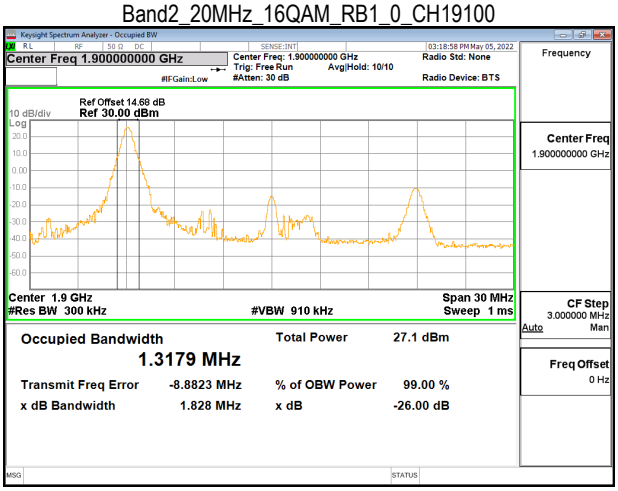


Band2_20MHz_16QAM_RB1_0_CH19100



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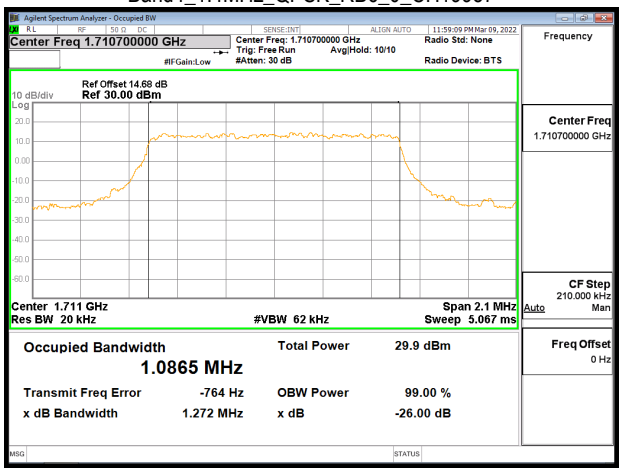
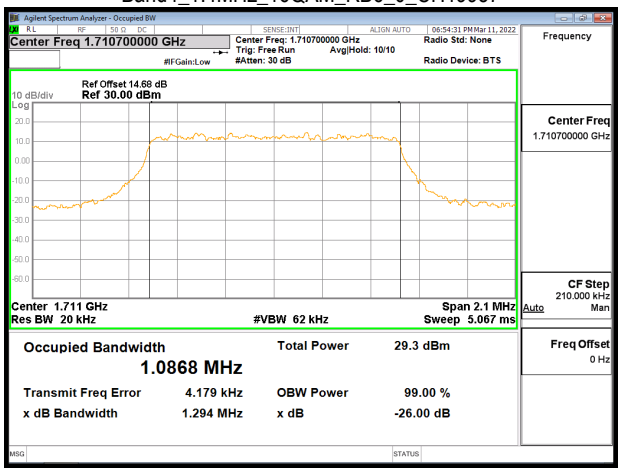
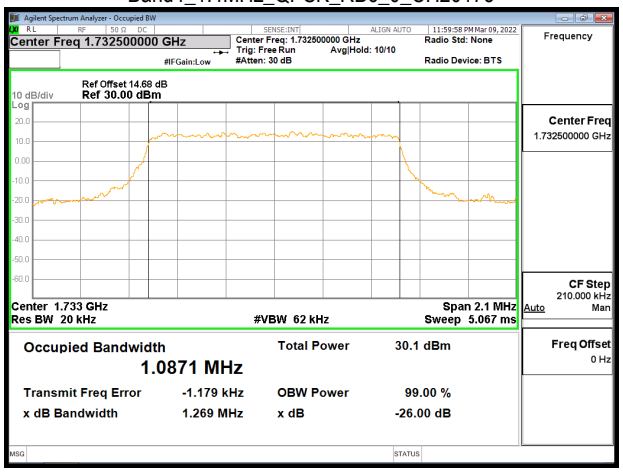
Band4_1.4MHz_QPSK_RB6_0_CH19957



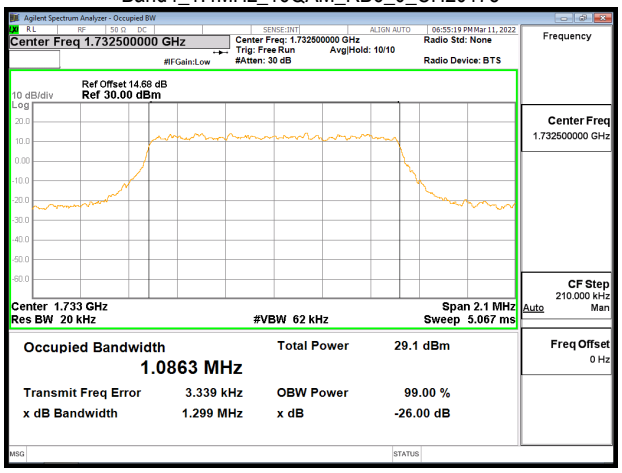
Band4_1.4MHz_16QAM_RB6_0_CH19957



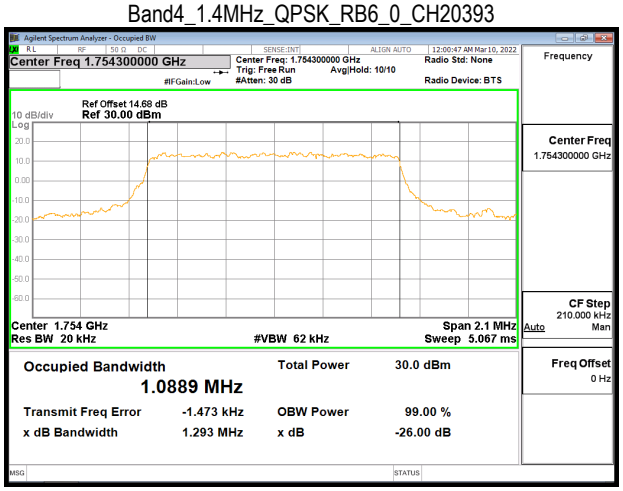
Band4_1.4MHz_QPSK_RB6_0_CH20175



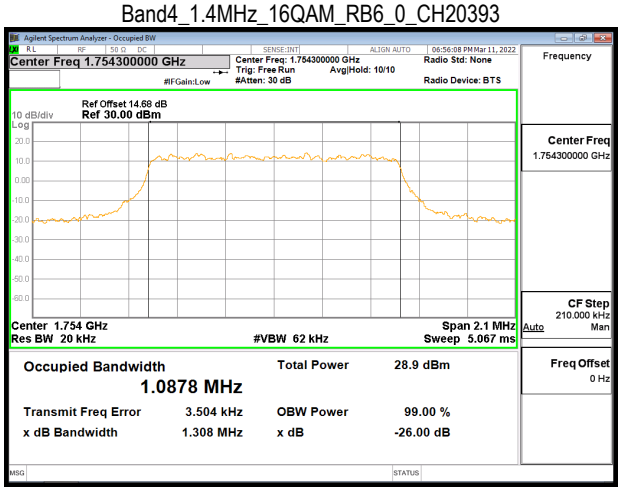
Band4_1.4MHz_16QAM_RB6_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB6_0_CH20393



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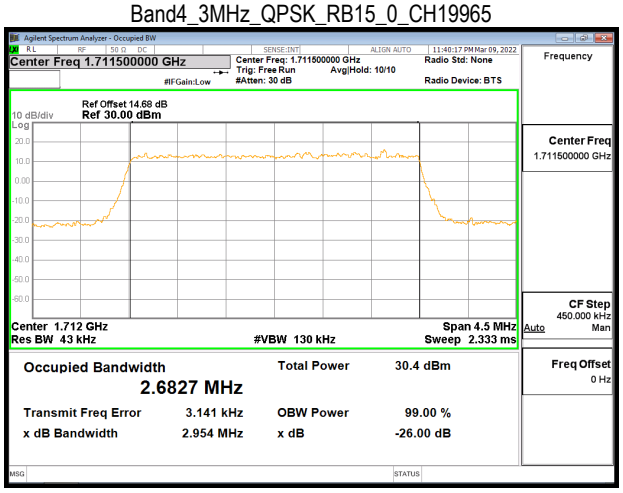
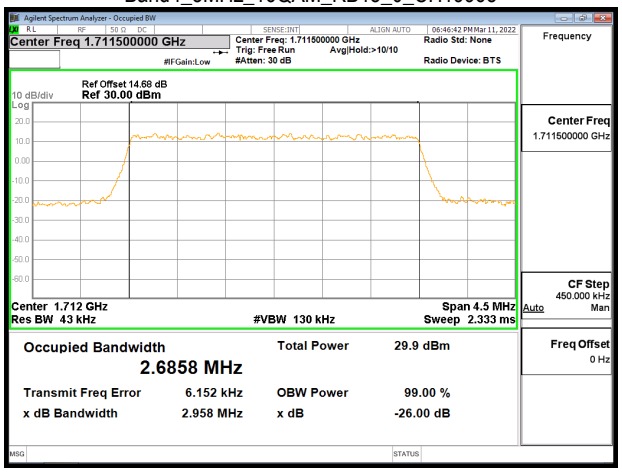
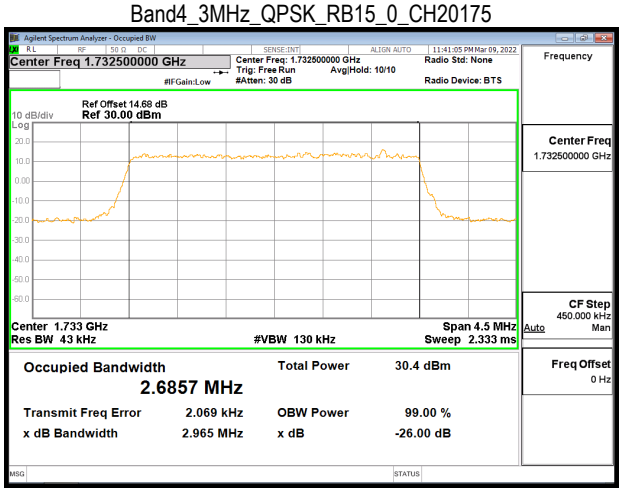
Band4_3MHz_QPSK_RB15_0_CH19965



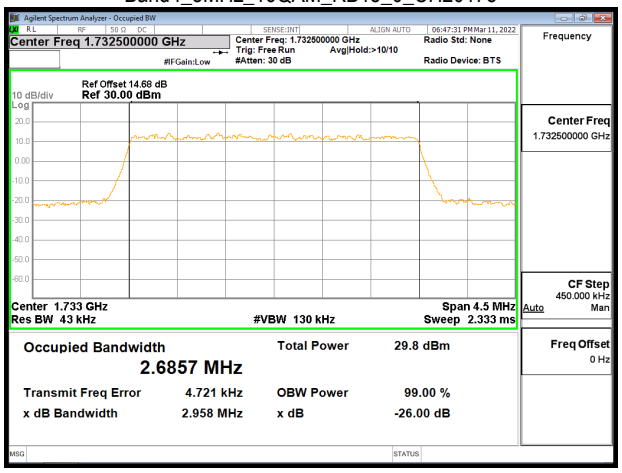
Band4_3MHz_16QAM_RB15_0_CH19965



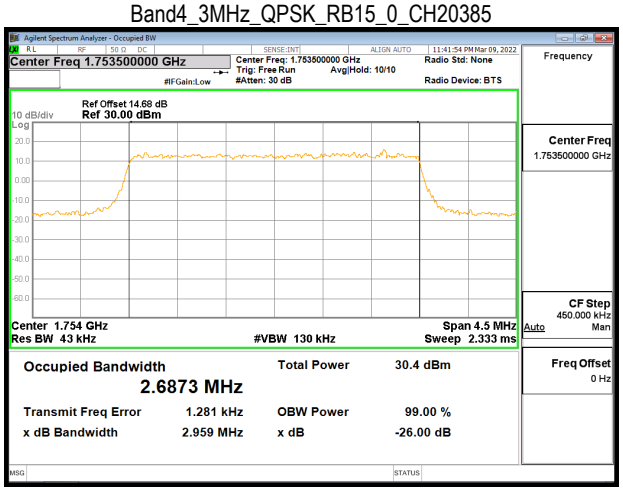
Band4_3MHz_QPSK_RB15_0_CH20175



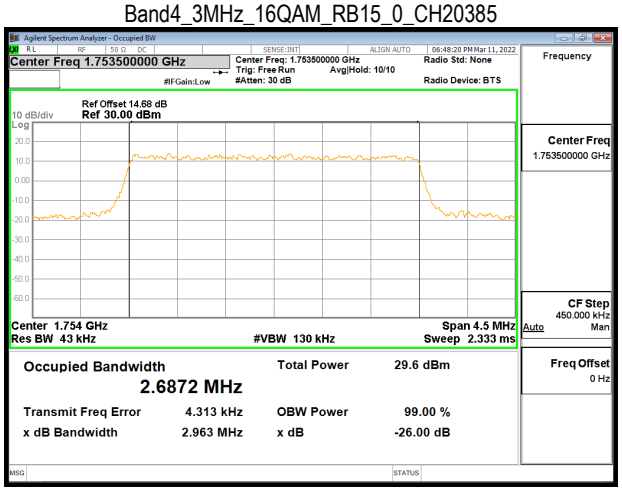
Band4_3MHz_16QAM_RB15_0_CH20175



Band4_3MHz_QPSK_RB15_0_CH20385



Band4_3MHz_16QAM_RB15_0_CH20385



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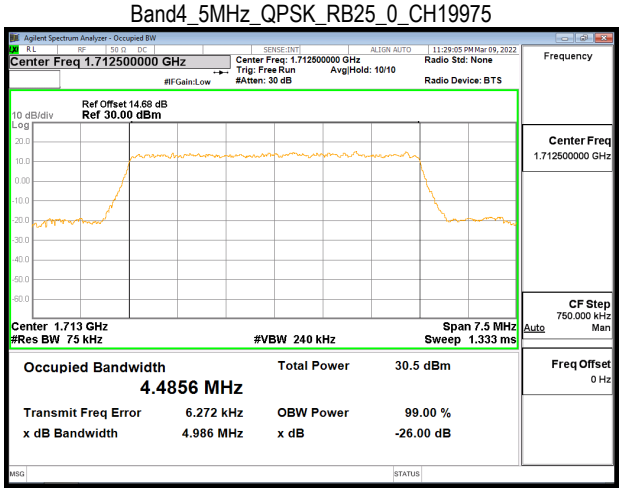
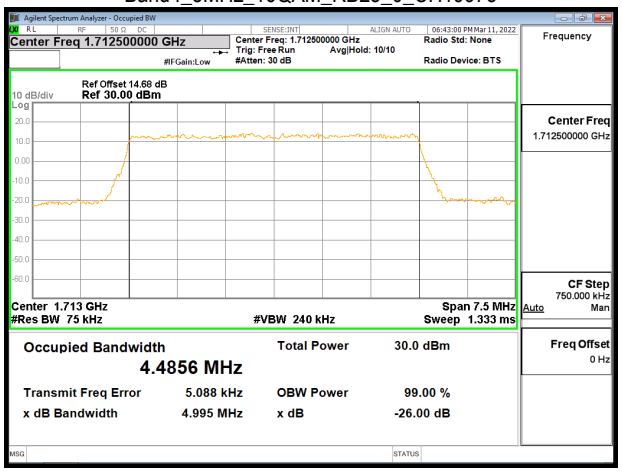
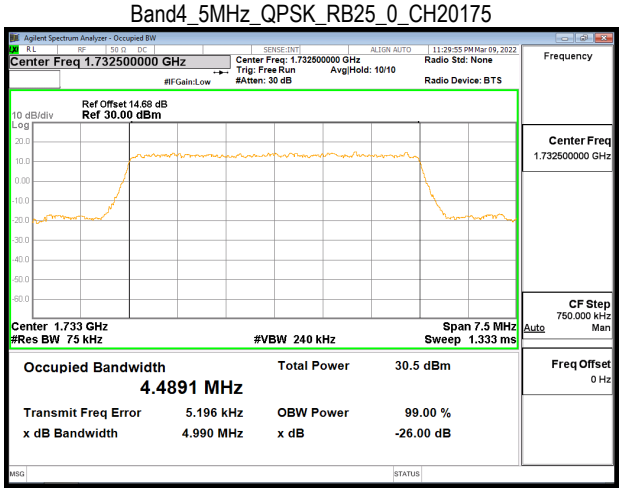
Band4_5MHz_QPSK_RB25_0_CH19975



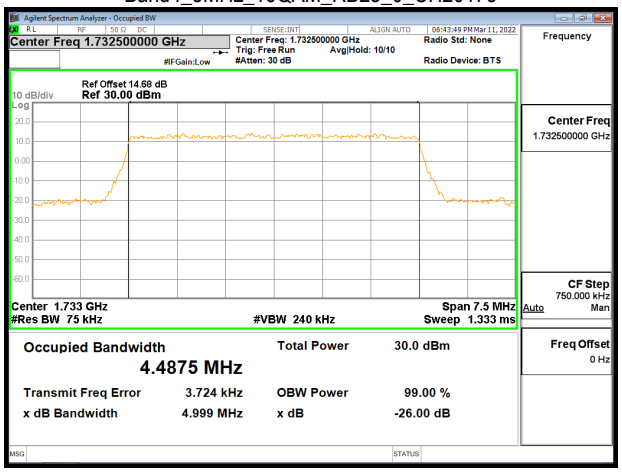
Band4_5MHz_16QAM_RB25_0_CH19975



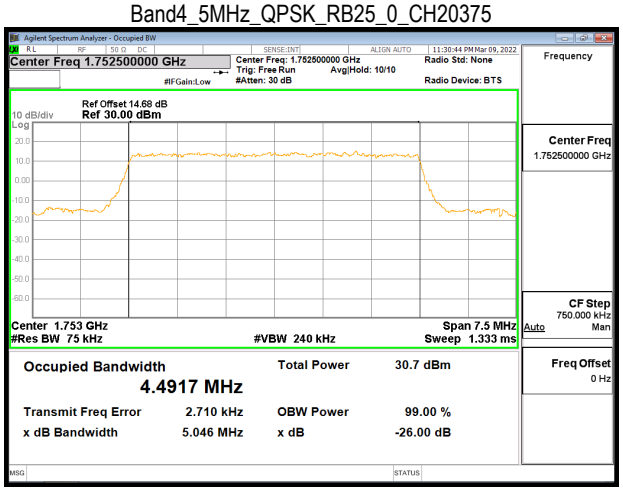
Band4_5MHz_QPSK_RB25_0_CH20175



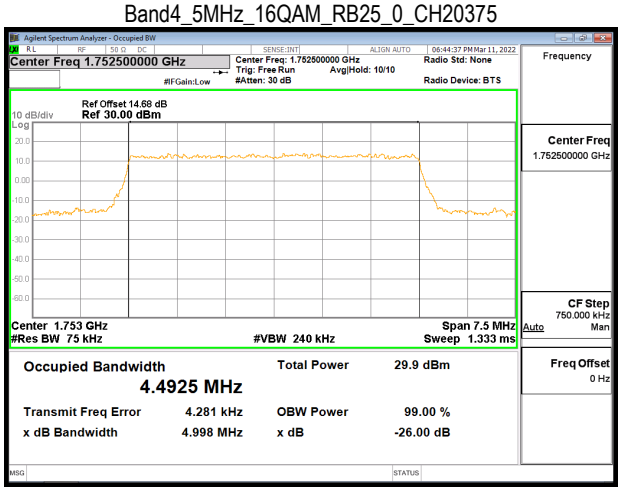
Band4_5MHz_16QAM_RB25_0_CH20175



Band4_5MHz_QPSK_RB25_0_CH20375



Band4_5MHz_16QAM_RB25_0_CH20375



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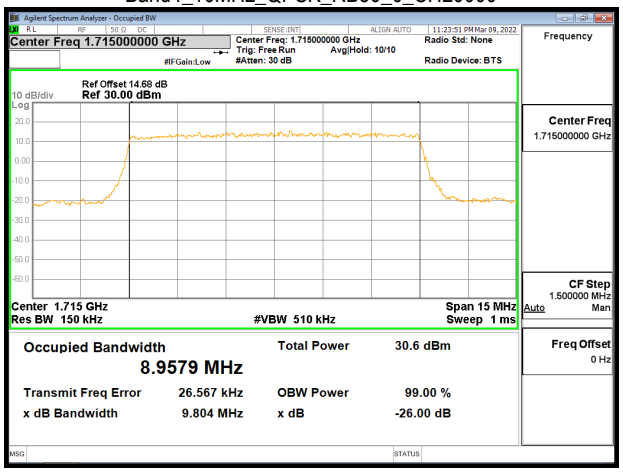
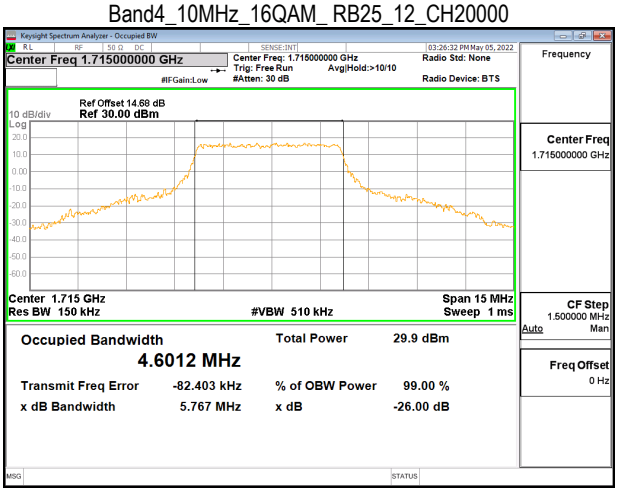
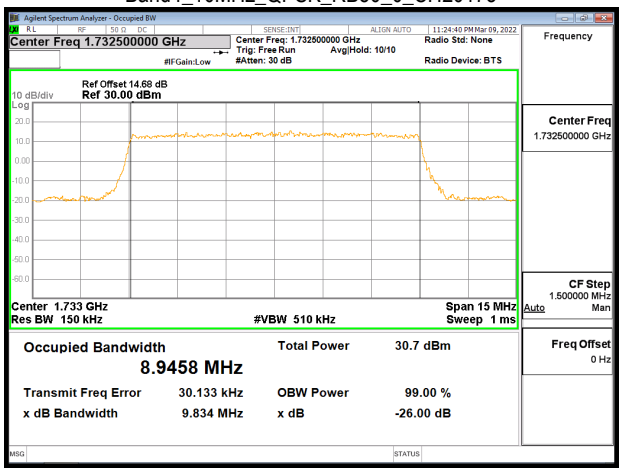
Band4_10MHz_QPSK_RB50_0_CH20000



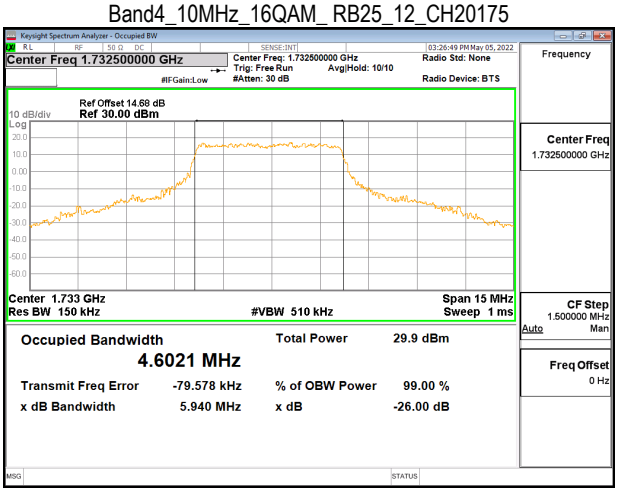
Band4_10MHz_16QAM_ RB25_12_CH20000



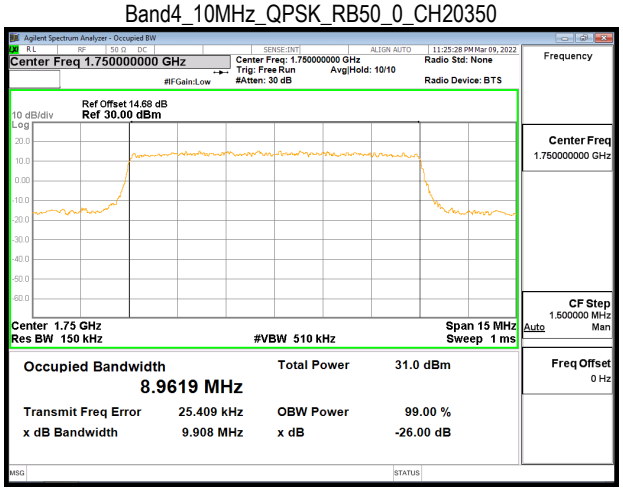
Band4_10MHz_QPSK_RB50_0_CH20175



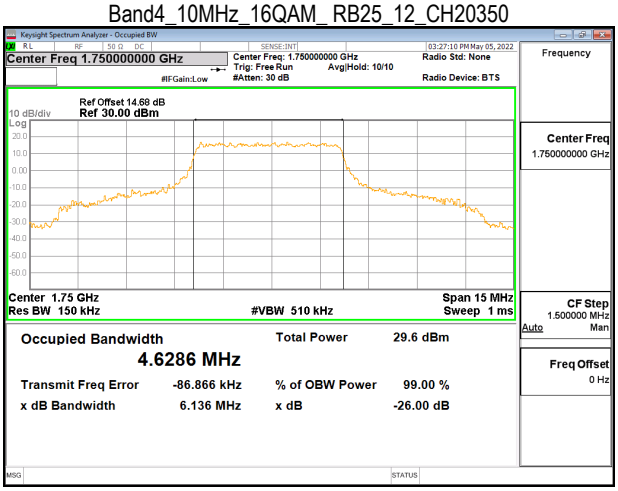
Band4_10MHz_16QAM_ RB25_12_CH20175



Band4_10MHz_QPSK_RB50_0_CH20350



Band4_10MHz_16QAM_ RB25_12_CH20350



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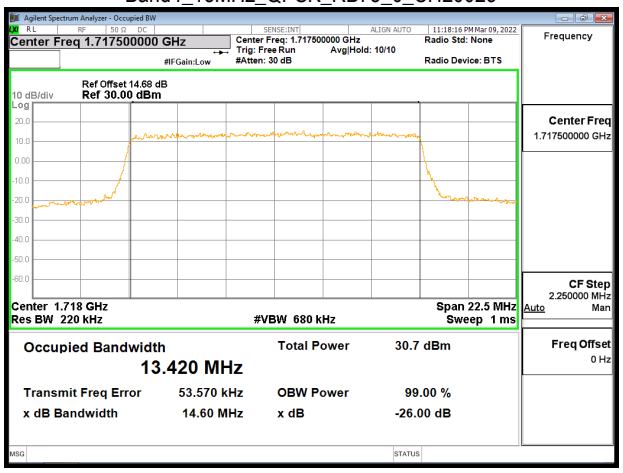
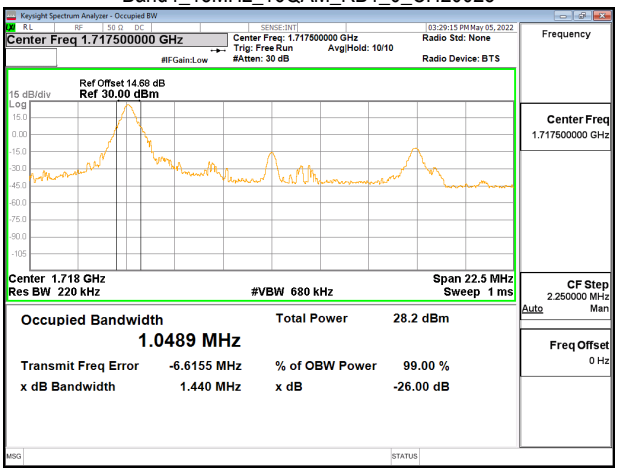
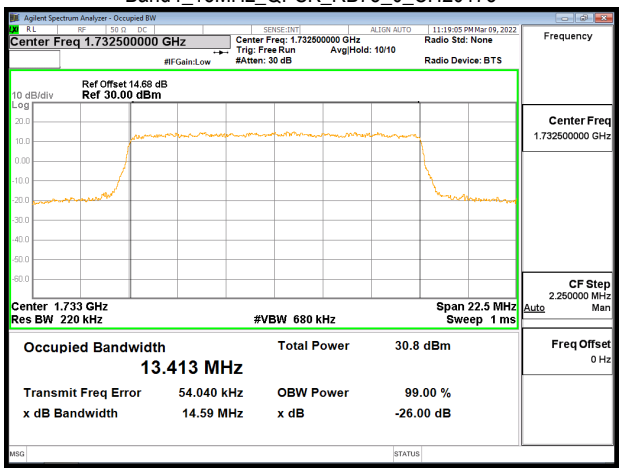
Band4_15MHz_QPSK_RB75_0_CH20025



Band4_15MHz_16QAM_RB1_0_CH20025



Band4_15MHz_QPSK_RB75_0_CH20175



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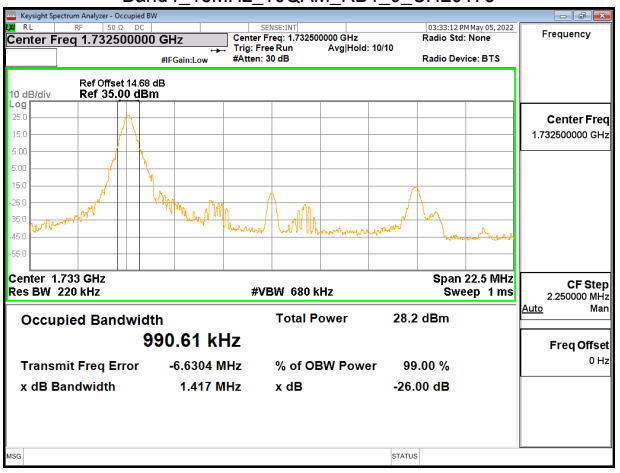
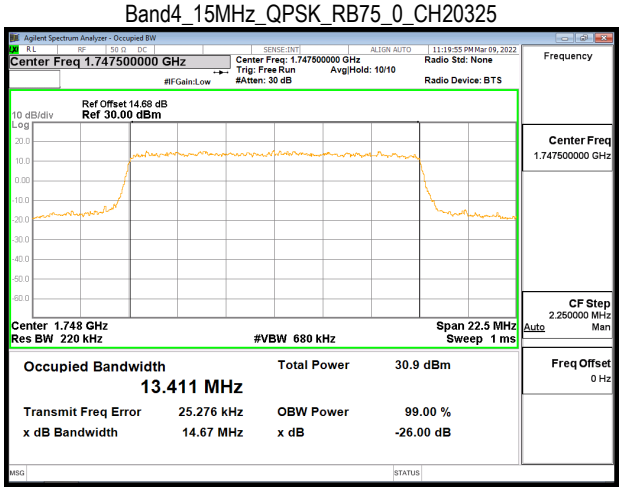


Band4_15MHz_QPSK_RB75_0_CH20325



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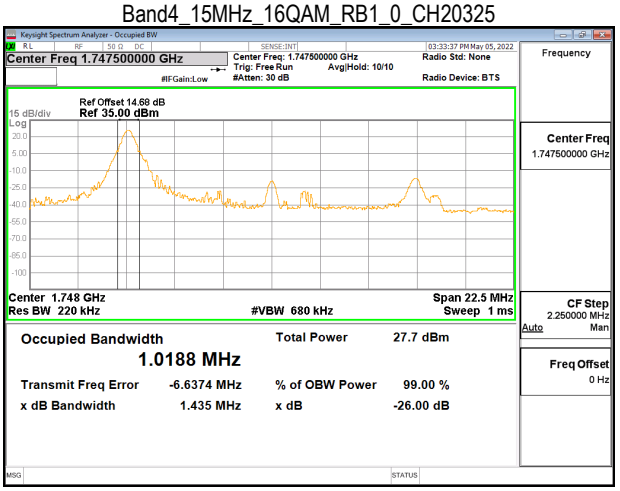

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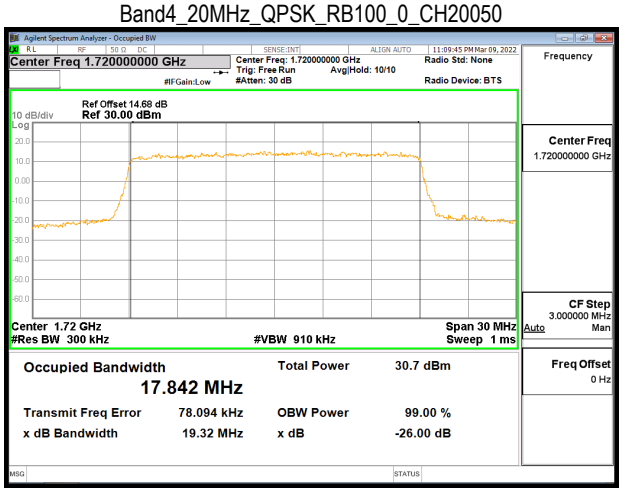
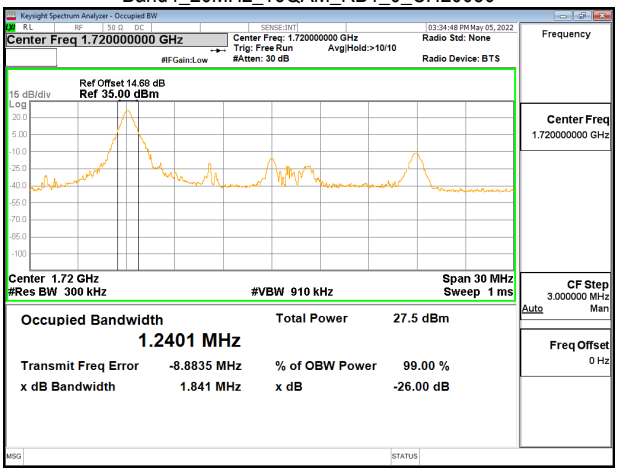
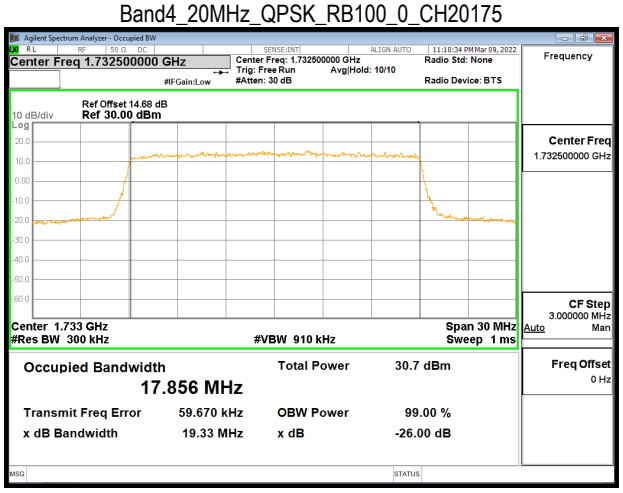
Band4_20MHz_QPSK_RB100_0_CH20050



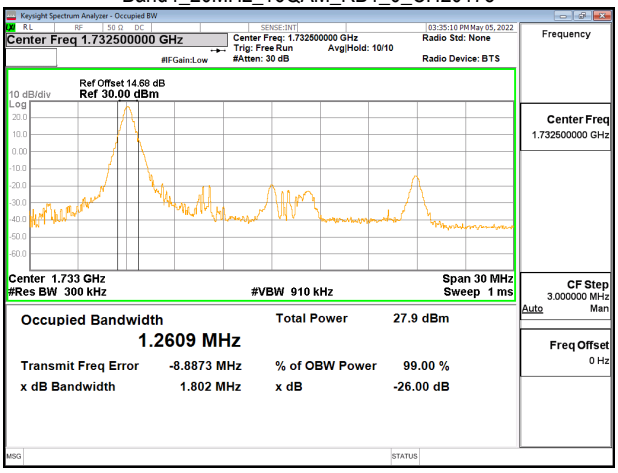
Band4_20MHz_16QAM_RB1_0_CH20050



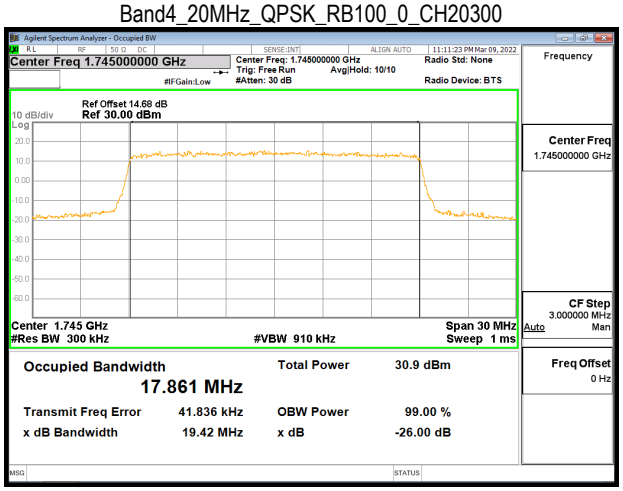
Band4_20MHz_QPSK_RB100_0_CH20175



Band4_20MHz_16QAM_RB1_0_CH20175



Band4_20MHz_QPSK_RB100_0_CH20300



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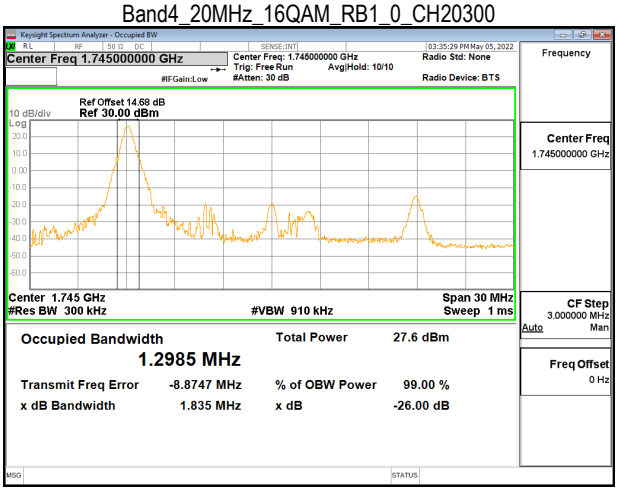

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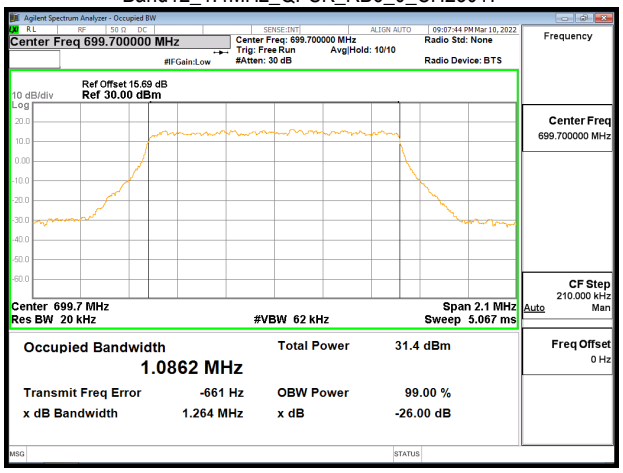
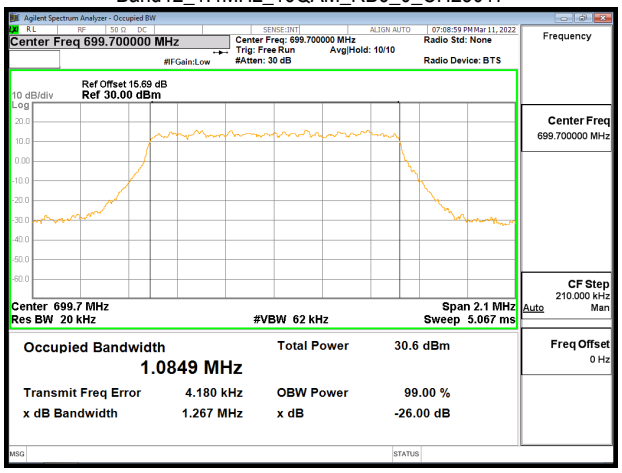
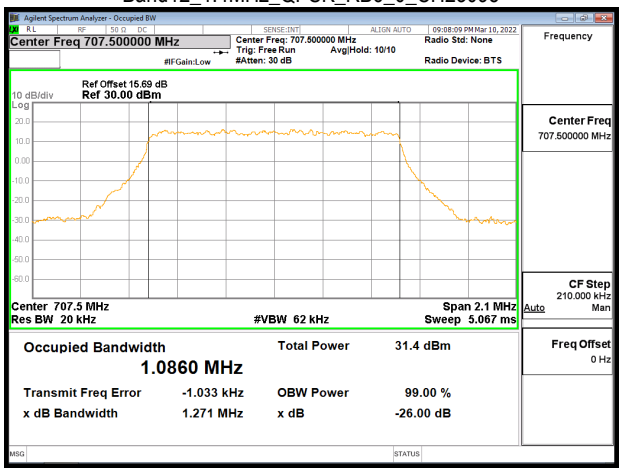
Band12_1.4MHz_QPSK_RB6_0_CH23017



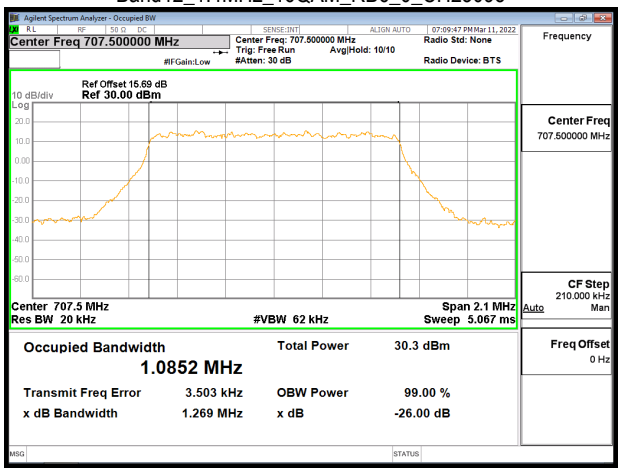
Band12_1.4MHz_16QAM_RB6_0_CH23017



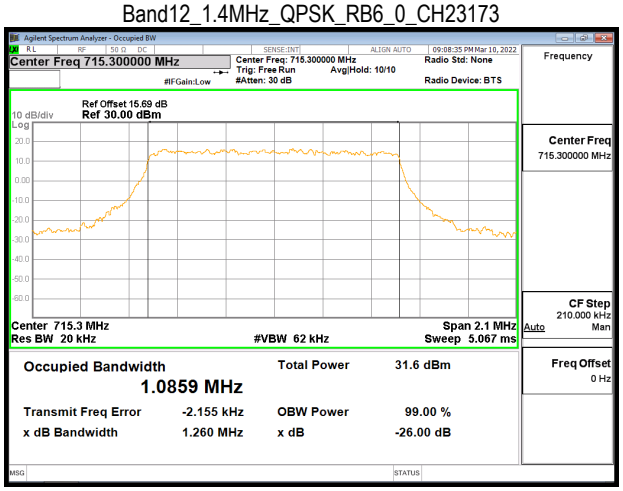
Band12_1.4MHz_QPSK_RB6_0_CH23095



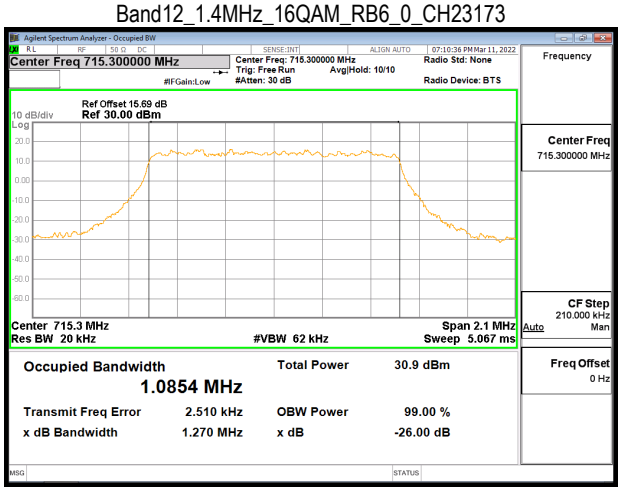
Band12_1.4MHz_16QAM_RB6_0_CH23095



Band12_1.4MHz_QPSK_RB6_0_CH23173



Band12_1.4MHz_16QAM_RB6_0_CH23173



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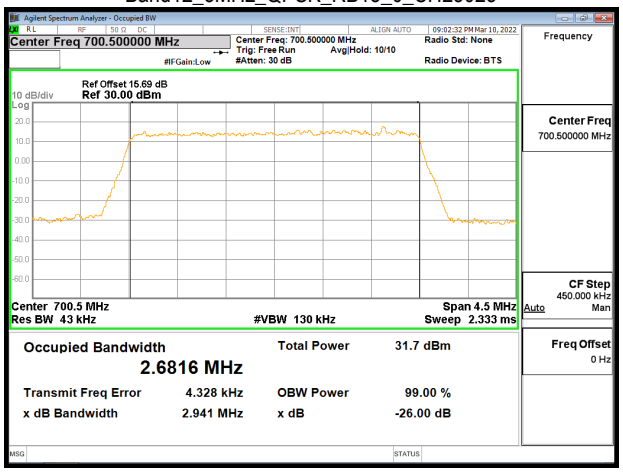
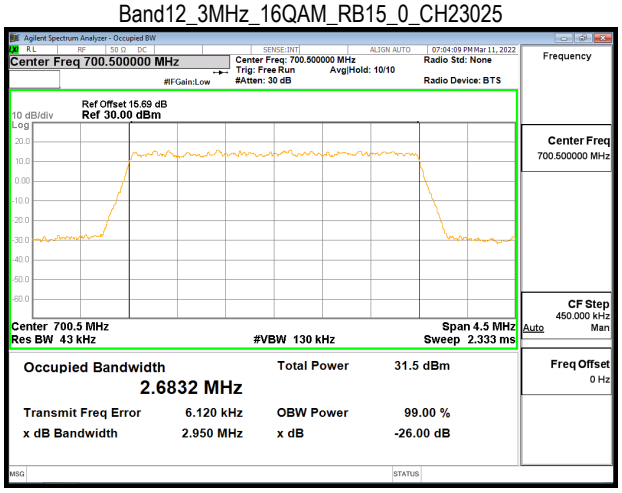
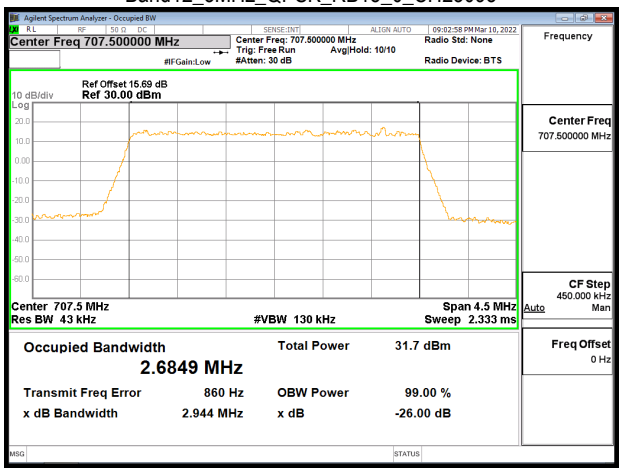
Band12_3MHz_QPSK_RB15_0_CH23025



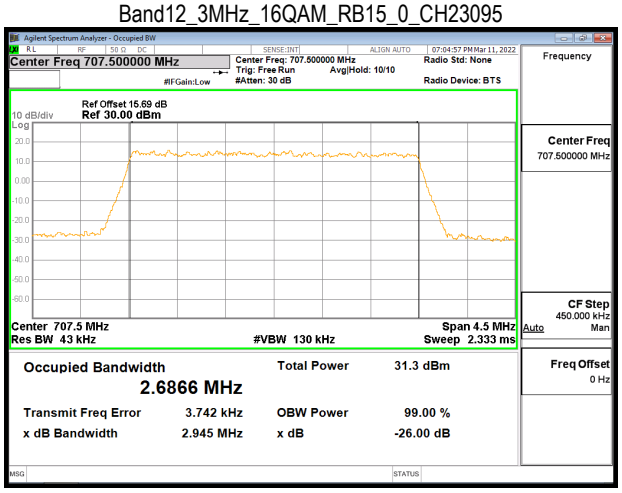
Band12_3MHz_16QAM_RB15_0_CH23025



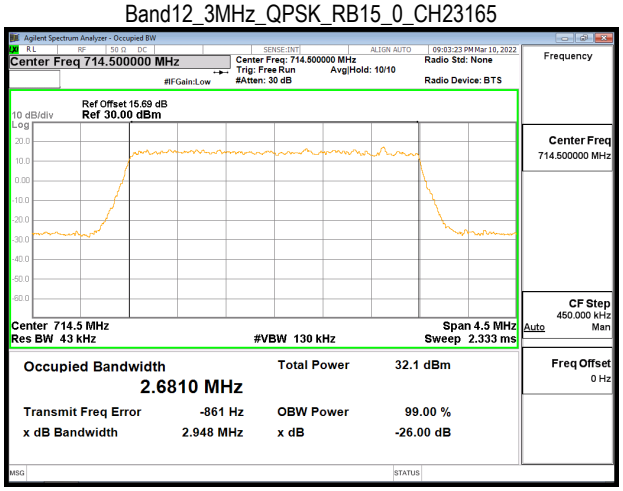
Band12_3MHz_QPSK_RB15_0_CH23095



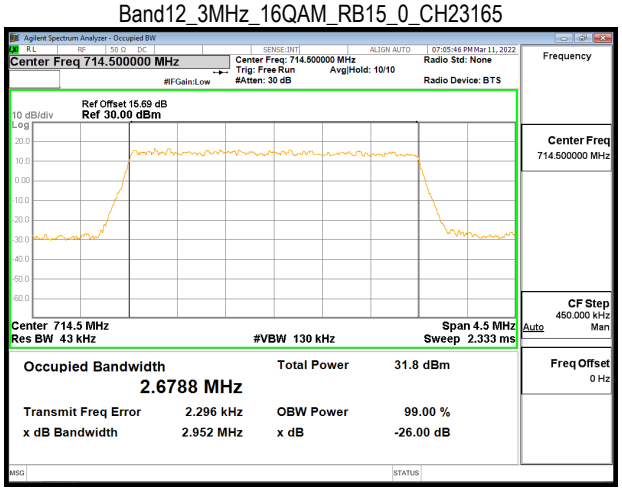
Band12_3MHz_16QAM_RB15_0_CH23095



Band12_3MHz_QPSK_RB15_0_CH23165



Band12_3MHz_16QAM_RB15_0_CH23165



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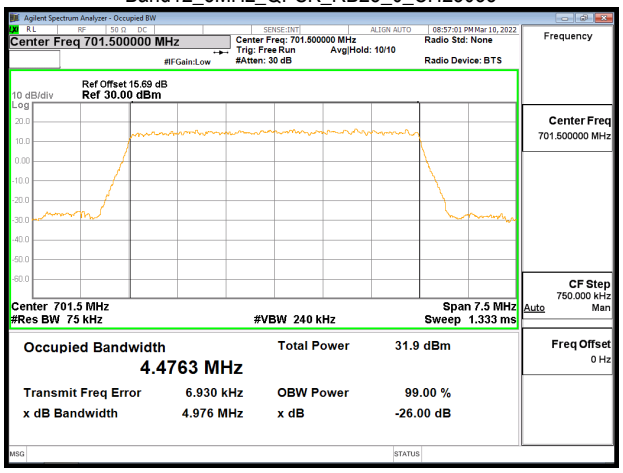
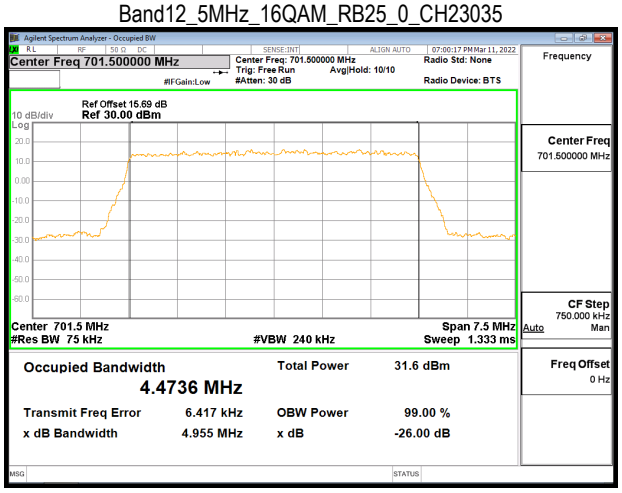
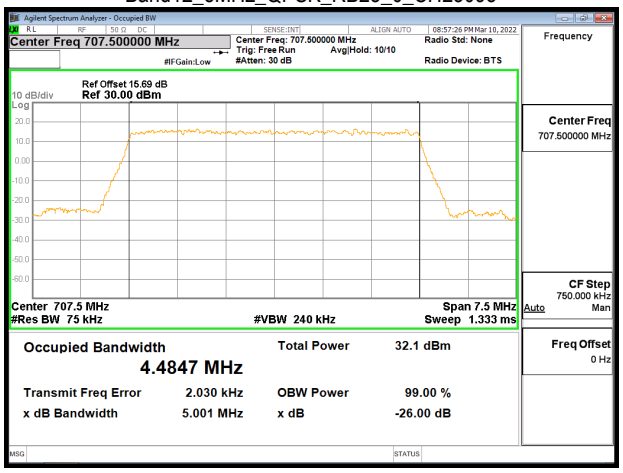
Band12_5MHz_QPSK_RB25_0_CH23035



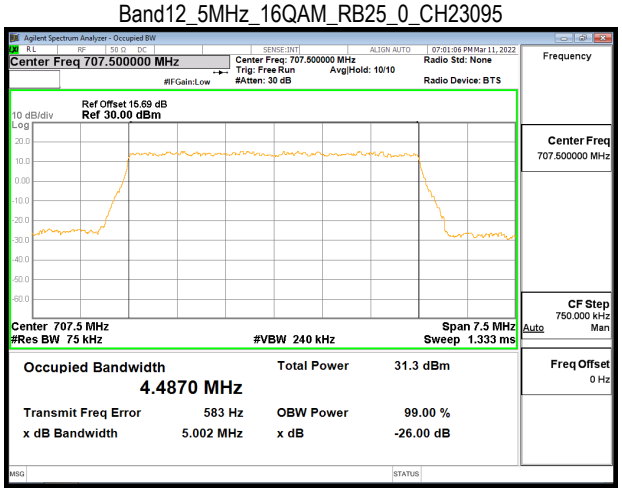
Band12_5MHz_16QAM_RB25_0_CH23035



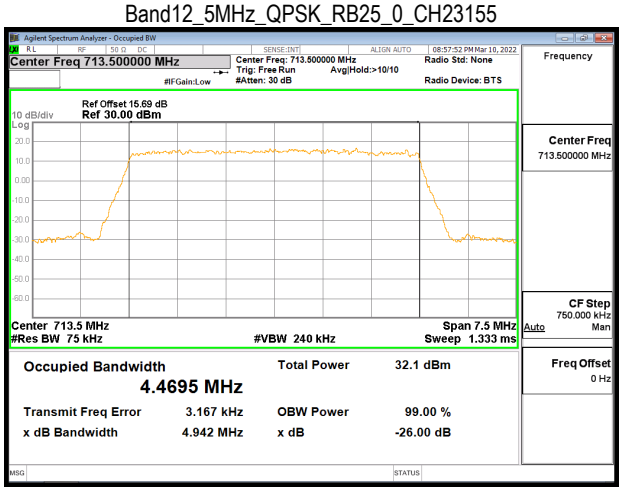
Band12_5MHz_QPSK_RB25_0_CH23095



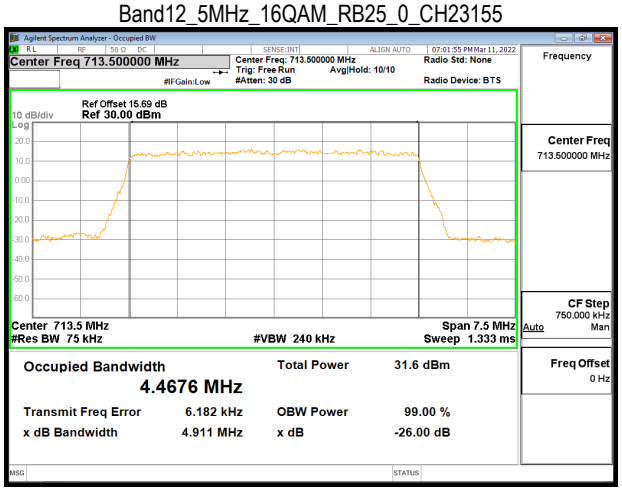
Band12_5MHz_16QAM_RB25_0_CH23095



Band12_5MHz_QPSK_RB25_0_CH23155



Band12_5MHz_16QAM_RB25_0_CH23155



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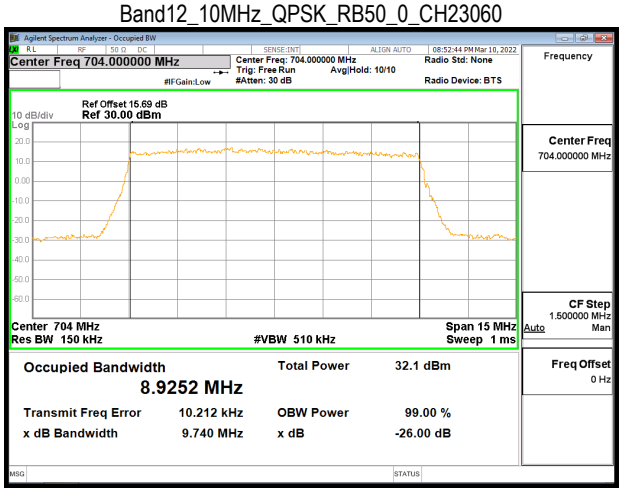
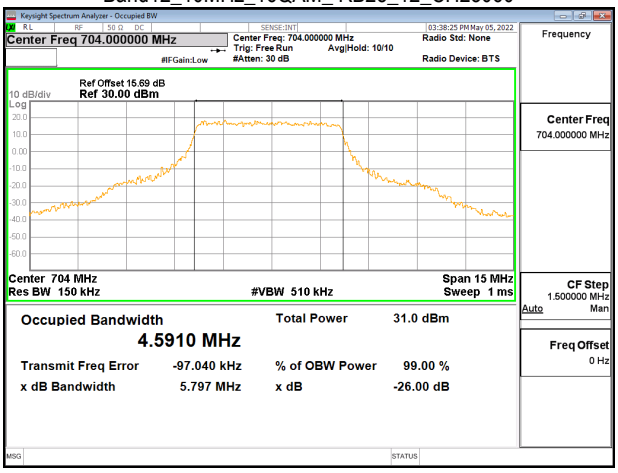
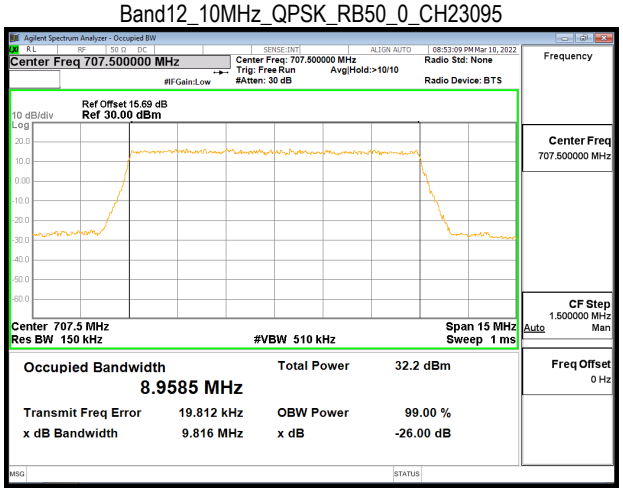
Band12_10MHz_QPSK_RB50_0_CH23060



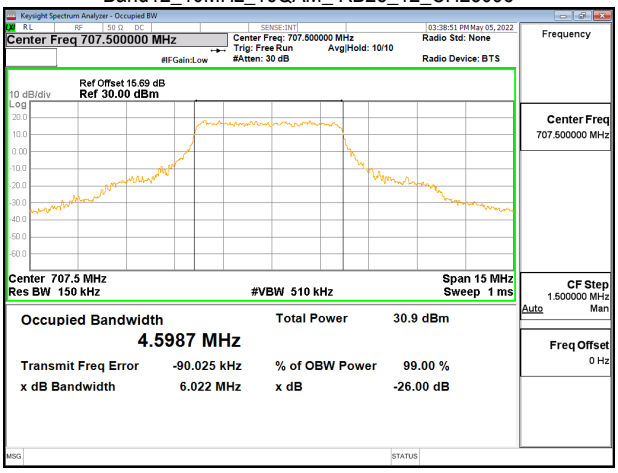
Band12_10MHz_16QAM_ RB25_12_CH23060



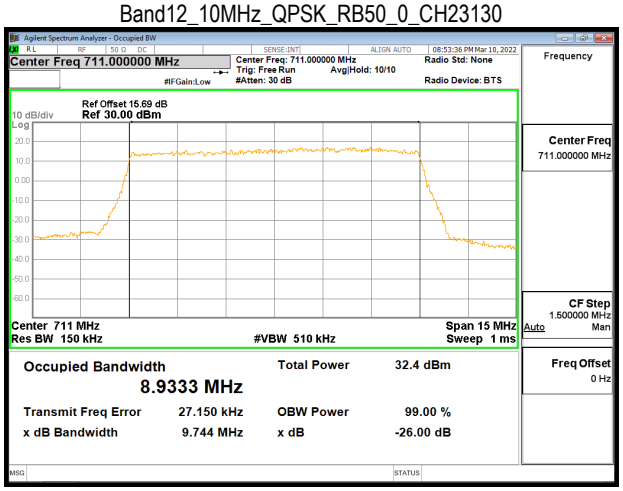
Band12_10MHz_QPSK_RB50_0_CH23095



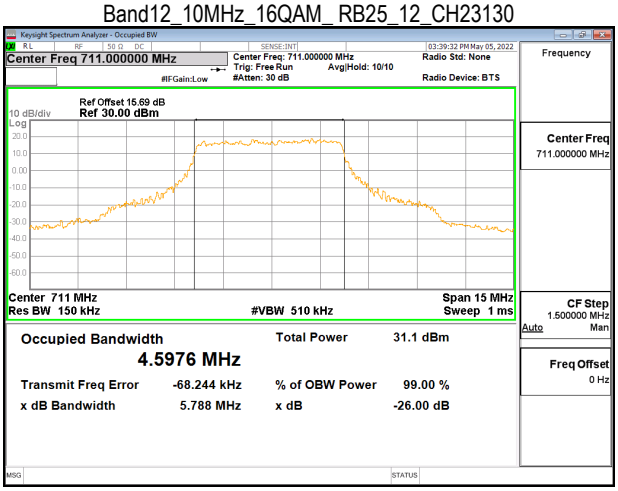
Band12_10MHz_16QAM_ RB25_12_CH23095



Band12_10MHz_QPSK_RB50_0_CH23130



Band12_10MHz_16QAM_ RB25_12_CH23130



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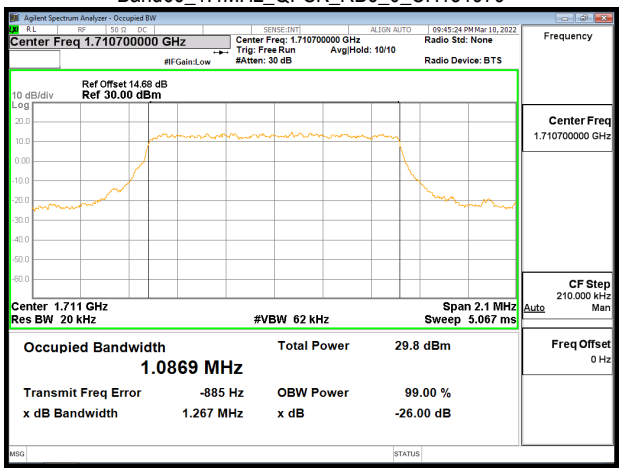
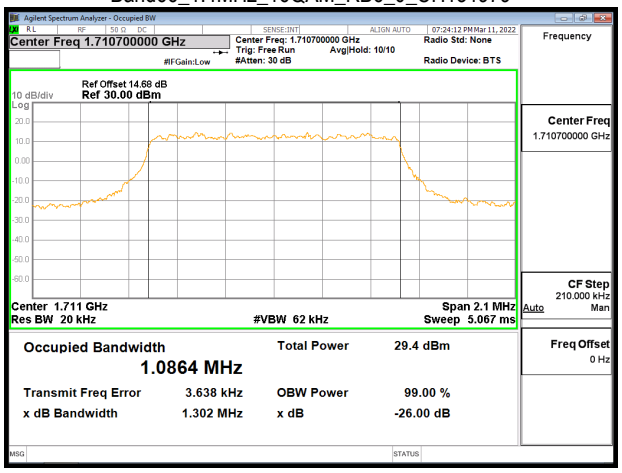
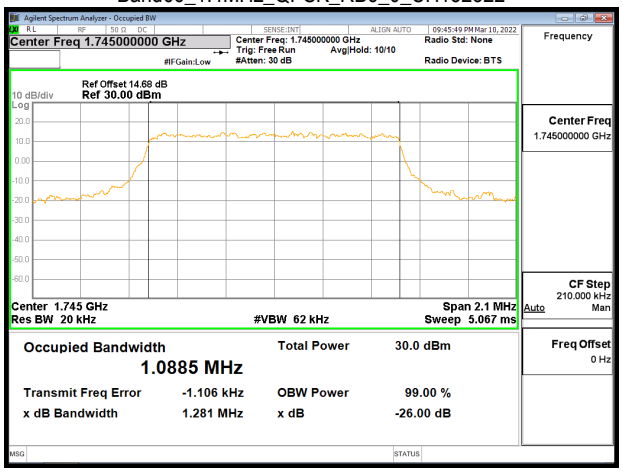
Band66_1.4MHz_QPSK_RB6_0_CH131979



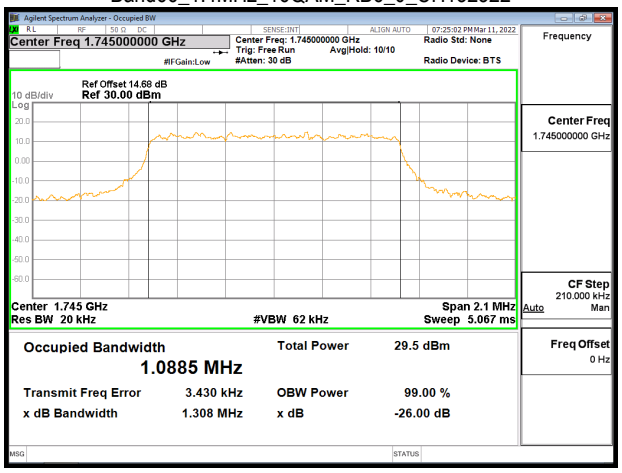
Band66_1.4MHz_16QAM_RB6_0_CH131979



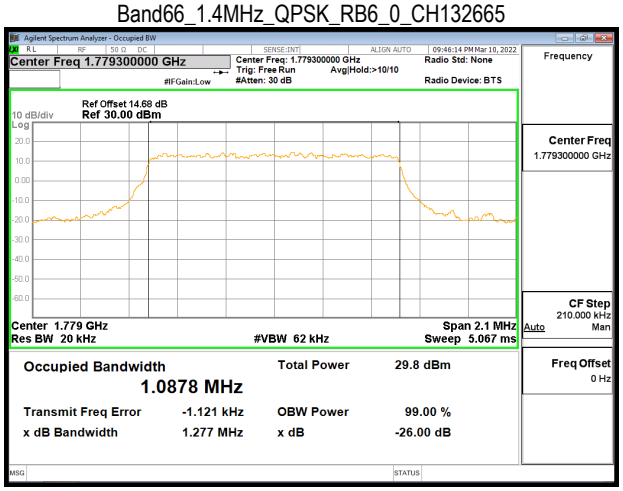
Band66_1.4MHz_QPSK_RB6_0_CH132322



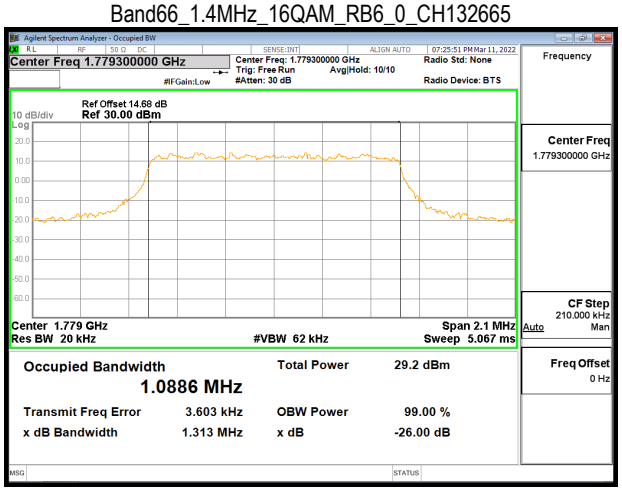
Band66_1.4MHz_16QAM_RB6_0_CH132322



Band66_1.4MHz_QPSK_RB6_0_CH132665



Band66_1.4MHz_16QAM_RB6_0_CH132665



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