



RF TEST REPORT

Report No.: SET2021-12665

Product: Mason Smartphone

FCC ID: 2AJZP-D215PRO

Model No.: D215 Pro

Dates of Testing: 09/10/2021 —09/25/2021

Applicant: Mason America, Inc.

Address: 2101 4TH AVE STE 1550 SEATTLE, WA 98121-2316

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
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Test Report

Product : Mason Smartphone

Brand Name : MASON

Trade Name : **M** **MASON**

Applicant : Mason America, Inc.

Applicant Address : 2101 4TH AVE STE 1550 SEATTLE, WA 98121-2316

Manufacturer : Mason America, Inc.

Manufacturer Address : 2101 4TH AVE STE 1550 SEATTLE, WA 98121-2316

Test Standards : FCC:47 CFR Part 2/22/24/27

Test Result : PASS

Tested by

2021.09.25

Sun, Test Engineer

Reviewed by

2021.09.25

Chris You, Senior Engineer

Approved by

2021.09.25

Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2021.09.25	First edition



1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	Mason Smartphone
EUT supports Radios application	LTE Band 2/4/5/7/12/17/41/66/71
Frequency Range(Tx)	LTE Band 2: 1850.7MHz~1909.3MHz LTE Band 4: 1710.7MHz~1754.3MHz LTE Band 5: 824.7MHz~848.3MHz LTE Band 7: 2502.5MHz~2567.5MHz LTE Band 12: 699.7MHz~715.3MHz LTE Band 17: 706.5MHz~713.5MHz LTE Band 41: 2498.5MHz~2687.5MHz LTE Band 66: 1710.7MHz~1779.3MHz LTE Band 71: 665.5 MHz~695.5MHz
Maximum Output Power to Antenna	LTE Band 2: 21.66dBm LTE Band 4: 21.86dBm LTE Band 5: 21.67dBm LTE Band 7: 21.65dBm LTE Band 12: 21.85dBm LTE Band 17: 21.81dBm LTE Band 41: 21.45dBm LTE Band 66: 21.36dBm LTE Band 71: 22.26 dBm
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5: 1.4MHz/3MHz/5MHz/10MHz LTE Band 7: 5MHz/10MHz/15MHz/20MHz LTE Band 12: 1.4MHz/3MHz/5MHz/10MHz LTE Band 17: 5MHz/10MHz LTE Band 41: 5MHz/10MHz/15MHz/20MHz LTE Band 66: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 71: 5MHz/10MHz/15MHz/20MHz
Modulation Type	QPSK/16QAM/64QAM(downlink only)
Antenna Type	Internal Antenna
Power supply	DC 3.85V

1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP(W)
LTE Band 2	QPSK	1.4	1M09G7D	—	0.155
LTE Band 2	16QAM	1.4	1M09W7D	—	0.124
LTE Band 2	QPSK	3	2M68G7D	—	0.156
LTE Band 2	16QAM	3	2M68W7D	—	0.130
LTE Band 2	QPSK	5	4M49G7D	—	0.157
LTE Band 2	16QAM	5	4M49W7D	—	0.126
LTE Band 2	QPSK	10	8M91G7D	0.005	0.170
LTE Band 2	16QAM	10	8M91W7D	—	0.132
LTE Band 2	QPSK	15	13M4G7D	—	0.186
LTE Band 2	16QAM	15	13M4W7D	—	0.129
LTE Band 2	QPSK	20	17M8G7D	—	0.151
LTE Band 2	16QAM	20	17M8W7D	—	0.124
LTE Band 4	QPSK	1.4	1M09G7D	—	0.155
LTE Band 4	16QAM	1.4	1M09W7D	—	0.124
LTE Band 4	QPSK	3	2M68G7D	—	0.156
LTE Band 4	16QAM	3	2M68W7D	—	0.177
LTE Band 4	QPSK	5	4M49G7D	—	0.165
LTE Band 4	16QAM	5	4M49W7D	—	0.179
LTE Band 4	QPSK	10	8M91G7D	0.003	0.165
LTE Band 4	16QAM	10	8M91W7D	—	0.142
LTE Band 4	QPSK	15	13M4G7D	—	0.129
LTE Band 4	16QAM	15	13M4W7D	—	0.105
LTE Band 4	QPSK	20	17M8G7D	—	0.132
LTE Band 4	16QAM	20	17M8W7D	—	0.109

LTE Band 5	QPSK	1.4	1M09G7D	—	0.235
LTE Band 5	16QAM	1.4	1M09W7D	—	0.196
LTE Band 5	QPSK	3	2M68G7D	—	0.239
LTE Band 5	16QAM	3	2M68W7D	—	0.162
LTE Band 5	QPSK	5	4M49G7D	—	0.233
LTE Band 5	16QAM	5	4M48W7D	—	0.192
LTE Band 5	QPSK	10	8M91G7D	0.004	0.194
LTE Band 5	16QAM	10	8M90W7D	—	0.187
LTE Band 7	QPSK	5	4M49G7D	—	0.149
LTE Band 7	16QAM	5	4M49W7D	—	0.095
LTE Band 7	QPSK	10	8M93G7D	0.004	0.148
LTE Band 7	16QAM	10	8M92W7D	—	0.100
LTE Band 7	QPSK	15	13M4G7D	—	0.153
LTE Band 7	16QAM	15	13M4W7D	—	0.100
LTE Band 7	QPSK	20	17M8G7D	—	0.141
LTE Band 7	16QAM	20	17M8W7D	—	0.180
LTE Band 12	QPSK	1.4	1M09G7D	—	0.130
LTE Band 12	16QAM	1.4	1M09W7D	—	0.107
LTE Band 12	QPSK	3	2M68G7D	—	0.185
LTE Band 12	16QAM	3	2M68W7D	—	0.109
LTE Band 12	QPSK	5	4M49G7D	—	0.134
LTE Band 12	16QAM	5	4M48W7D	—	0.110
LTE Band 12	QPSK	10	8M90G7D	0.006	0.149
LTE Band 12	16QAM	10	8M90W7D	—	0.122
LTE Band 17	QPSK	5	4M48G7D	—	0.132
LTE Band 17	16QAM	5	4M49W7D	—	0.085
LTE Band 17	QPSK	10	8M91G7D	0.004	0.131
LTE Band 17	16QAM	10	8M90W7D	—	0.089
LTE Band 41	QPSK	5	4M48G7D	—	0.130



LTE Band 41	16QAM	5	4M49W7D	—	0.112
LTE Band 41	QPSK	10	8M90G7D	0.005	0.132
LTE Band 41	16QAM	10	8M92W7D	—	0.114
LTE Band 41	QPSK	15	13M4G7D	—	0.106
LTE Band 41	16QAM	15	13M4W7D	—	0.116
LTE Band 41	QPSK	20	17M8G7D	—	0.137
LTE Band 41	16QAM	20	17M8W7D	—	0.110
LTE Band 66	QPSK	1.4	1M09G7D	—	0.152
LTE Band 66	16QAM	1.4	1M09W7D	—	0.116
LTE Band 66	QPSK	3	2M68G7D	—	0.157
LTE Band 66	16QAM	3	2M68W7D	—	0.126
LTE Band 66	QPSK	5	4M49G7D	—	0.155
LTE Band 66	16QAM	5	4M49W7D	—	0.128
LTE Band 66	QPSK	10	8M92G7D	0.005	0.155
LTE Band 66	16QAM	10	8M91W7D	—	0.106
LTE Band 66	QPSK	15	13M4G7D	—	0.159
LTE Band 66	16QAM	15	13M4W7D	—	0.129
LTE Band 66	QPSK	20	17M9G7D	—	0.166
LTE Band 66	16QAM	20	17M9W7D	—	0.133
LTE Band 71	QPSK	5	4M50G7D	—	0.142
LTE Band 71	16QAM	5	4M52W7D	—	0.091
LTE Band 71	QPSK	10	8M93G7D	0.004	0.141
LTE Band 71	16QAM	10	8M93W7D	—	0.096
LTE Band 71	QPSK	15	13M5G7D	—	0.146
LTE Band 71	16QAM	15	13M5W7D	—	0.095
LTE Band 71	QPSK	20	17M8G7D	—	0.135
LTE Band 71	16QAM	20	17M9W7D	—	0.172



1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2/22/24/27/90 for the EUT FCC ID Certification:

1. ANSI/TIA/EIA-603-D-2010
2. FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Limit	Result
1	2.1046	Conducted RF Output Power	Reporting Only	PASS
2	§24.232(d)	Peak to Average Ratio	<13dB	PASS
3	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP<7Watt	PASS
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2/7/41)	EIRP < 2Watt	PASS
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12/17/71)	ERP<3Watt for band 12	PASS
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS
5	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h) 2.1051	Conducted Band Edge Measurement (Band 2/4/5/12/17/66/71)	FCC:< 43+10log10(P[watt]) FCC:< 43+10log10(P[watt])	PASS
	2.1051 27.53(m)(4) 27.53(i)(4)	Conducted Band Edge (Band 7/41)	Refer to 27.53(m)(4)	PASS



6	2.1051 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Conducted Spurious Emission Measurement (Band 2/4/5/12/17/66/71)	$<$ $43+10\log_{10}(P[\text{watt}])$	PASS
	2.1051 27.53(m)(4) 27.53(i)(4)	Conducted Spurious Emission Measurement (Band 7/41)	$<$ $55+10\log_{10}(P[\text{watt}])$	PASS
7	2.1053 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Radiated Spurious Emission Measurement (Band 2/4/5/12/17/66/71)	FCC: $<$ $43+10\log_{10}(P[\text{watt}])$	PASS
	2.1051 27.53(m)(4) 27.53(i)(4)	Radiated Spurious Emission Measurement (Band 7/41)	$<$ $55+10\log_{10}(P[\text{watt}])$	PASS
8	2.1055 22.335 24.235 27.54	Frequency Stability	$<2.5\text{ppm}$ Within the Authorized Band	PASS

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.4 Test Configuration of Equipment Under Test

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth(MHz)						Modulation		RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	17			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	41			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	71			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2				✓				✓	✓		✓	✓	✓	✓
	4				✓				✓	✓		✓	✓	✓	✓
	5														
	7														
	12														
	17														
	41														
26dB and 99% Bandwidth	66				✓				✓	✓		✓	✓	✓	✓
	71						✓		✓	✓		✓	✓	✓	✓
	2	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5	✓	✓	✓	✓			✓	✓			✓		✓	
	7			✓	✓	✓	✓	✓	✓			✓		✓	
	12	✓	✓	✓	✓			✓	✓			✓		✓	
	17			✓	✓			✓	✓			✓		✓	
Conducted Band Edge	41			✓	✓	✓	✓	✓	✓			✓		✓	
	66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	71			✓	✓	✓	✓	✓	✓			✓		✓	
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	7			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	12	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓



	17			✓	✓			✓	✓	✓		✓	✓		✓
	41			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	71														
Conducted Spurious Emission	2						✓	✓		✓			✓	✓	✓
	4						✓	✓		✓			✓	✓	✓
	5				✓			✓		✓			✓	✓	✓
	7						✓	✓		✓			✓	✓	✓
	12				✓			✓		✓			✓	✓	✓
	17				✓			✓		✓			✓	✓	✓
	41						✓	✓		✓			✓	✓	✓
	66						✓	✓		✓			✓	✓	✓
	71						✓	✓		✓			✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5				✓			✓				✓		✓	
	7				✓			✓				✓		✓	
	12				✓			✓				✓		✓	
	17				✓			✓				✓		✓	
	41				✓			✓				✓		✓	
	66				✓			✓				✓		✓	
	71				✓			✓				✓		✓	
ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	17			✓	✓			✓	✓	✓			✓	✓	✓
	41			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	71			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case													
	12	Worst case												✓	
	17	Worst case												✓	
	41	Worst case												✓	
	66	Worst case												✓	
	71	Worst case												✓	



Note:1. The mark “✓” means that this configuration is chosen for testing.

1.5 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 attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7dB and 10dB attenuator.

Example:

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 7 + 10 = 17 \text{ (dB)}\end{aligned}$$

1.6 Facilities and Accreditations

1.6.1 Test Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CAB identifier: CN0064

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until April 19th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.6.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. TEST REQUIREMENTS

2.1 Conducted RF Output Power

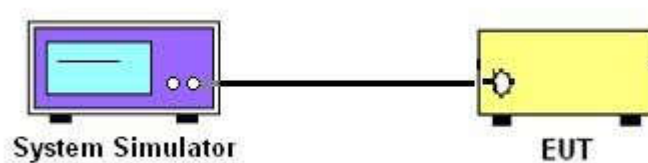
2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3 Test Setup



2.1.4 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



2.1.5 Test Results

Please refer to Appendix A for detail

2.2 Peak to Average Ratio

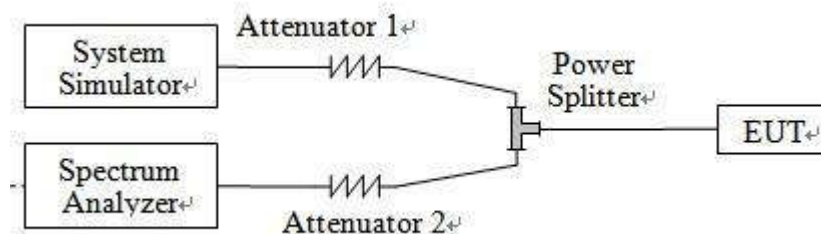
2.2.1 Definition

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.2.3 Test Description



2.2.4 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



2.2.5 Test Results of Peak-to-Average Ratio

Please refer to Appendix A for detail

2.3 99% Occupied Bandwidth and 26dB Bandwidth

2.3.1 Definition

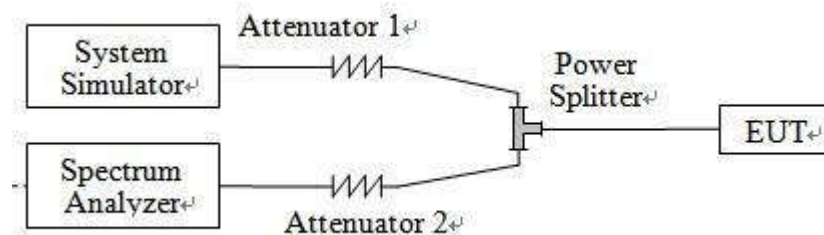
According to FCC section 2.1049, the occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

2.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.3.3 Test Setup



2.3.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.



2.3.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A for detail

2.4 Frequency Stability

2.4.1 Requirement

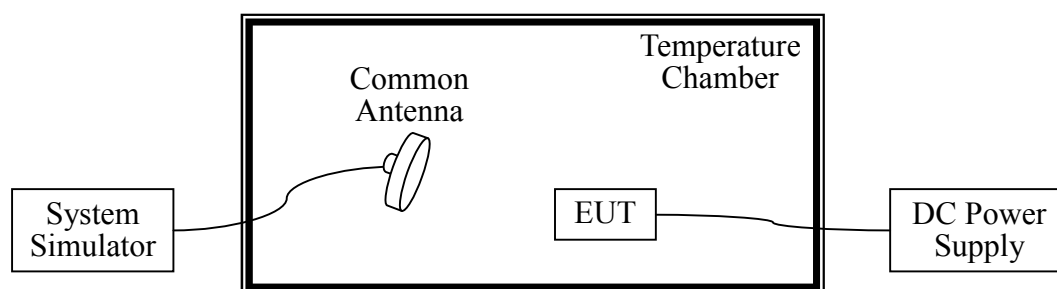
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3 Test Setup



2.4.4 Test Procedures

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized

before testing. Power was applied and the maximum change in frequency was recorded within one minute.

3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. The nominal, highest and lowest extreme voltages were tested, which are specified by the applicant; the normal temperature here used is 25°C.
5. The variation in frequency was measured for the worst case.



2.4.5 Test Result of Frequency Stability

Please refer to Appendix A for detail

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

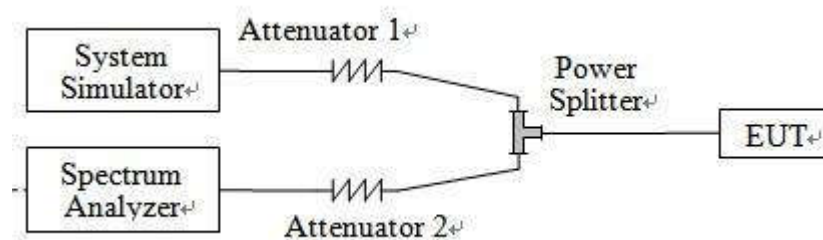
For Band7/41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.5.3 Test Setup



2.5.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$
8. For 9KHz to 30MHz: the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



2.5.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6 Conducted Band Edge

2.6.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238(a)

For operations in the 1850 -1910 MHz band, the FCC limit is $43 + 10\log_{10}(P [\text{Watts}])$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(g)

For operations in the 698 – 746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100kHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least 30kHz may be employed.

27.53(c)(2)

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

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

27.53m(4)

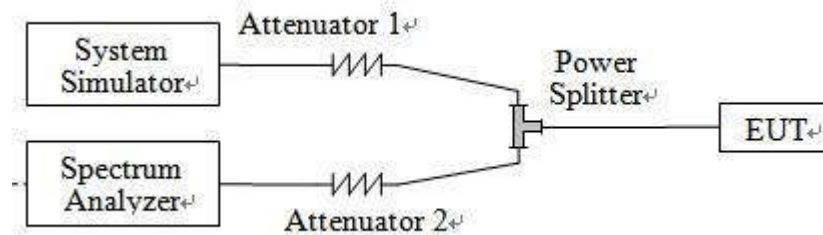
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB

on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

2.6.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3 Test Setup



2.6.4 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



2.6.5 Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

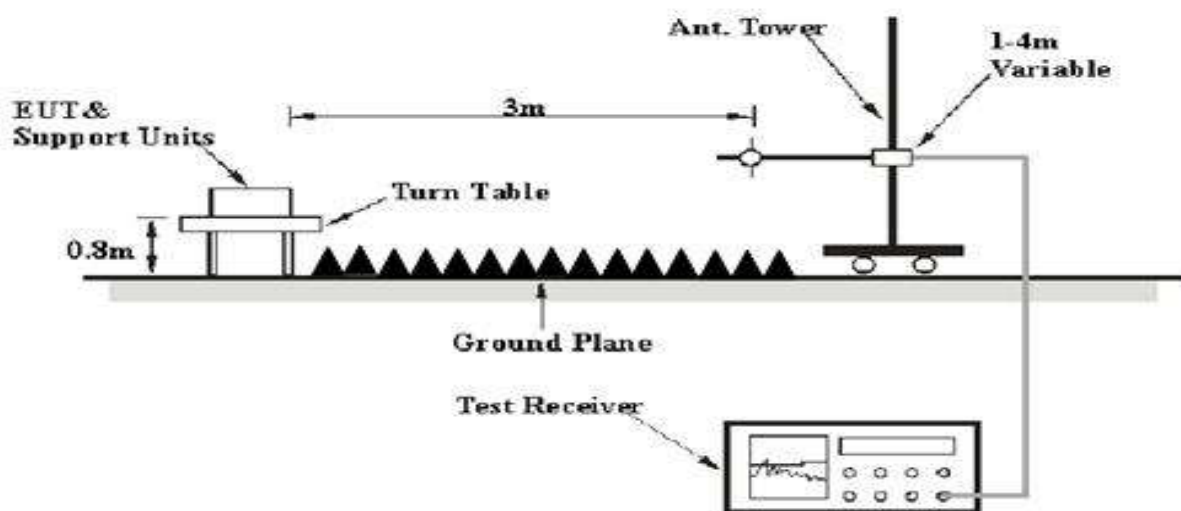
Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5 and 3 watts with LTE band 12/17/71.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2/7/41 and 1 watt with LTE band 4 and 66.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01v03r01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP****1. LTE Band 2 Test Verdict:**

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
2	1.4	QPSK	1	3	1850.7	21.88	PASS
2	1.4	QPSK	1	3	1880	21.9	PASS
2	1.4	QPSK	1	3	1909.3	21.77	PASS
2	1.4	16QAM	1	0	1850.7	20.82	PASS
2	1.4	16QAM	1	0	1880	20.94	PASS
2	1.4	16QAM	1	0	1909.3	20.78	PASS
2	3	QPSK	1	8	1851.5	21.8	PASS
2	3	QPSK	1	8	1880	21.82	PASS
2	3	QPSK	1	8	1908.5	21.94	PASS
2	3	16QAM	1	0	1851.5	20.9	PASS
2	3	16QAM	1	0	1880	21.06	PASS
2	3	16QAM	1	0	1908.5	21.15	PASS
2	5	QPSK	1	0	1852.5	21.87	PASS
2	5	QPSK	1	0	1880	21.97	PASS
2	5	QPSK	1	0	1907.5	21.83	PASS
2	5	16QAM	1	24	1852.5	21.02	PASS
2	5	16QAM	1	24	1880	20.98	PASS
2	5	16QAM	1	24	1907.5	20.97	PASS
2	10	QPSK	1	49	1855	21.87	PASS
2	10	QPSK	1	49	1880	22.31	PASS
2	10	QPSK	1	49	1905	21.97	PASS
2	10	16QAM	1	0	1855	20.94	PASS
2	10	16QAM	1	0	1880	21.22	PASS
2	10	16QAM	1	0	1905	20.87	PASS
2	15	QPSK	1	74	1857.5	21.9	PASS
2	15	QPSK	1	74	1880	21.95	PASS
2	15	QPSK	1	74	1902.5	22.69	PASS
2	15	16QAM	1	0	1857.5	21.05	PASS
2	15	16QAM	1	0	1880	21.12	PASS
2	15	16QAM	1	0	1902.5	20.98	PASS
2	20	QPSK	1	0	1860	21.8	PASS
2	20	QPSK	1	0	1880	21.77	PASS
2	20	QPSK	1	0	1900	21.79	PASS
2	20	16QAM	1	0	1860	20.81	PASS
2	20	16QAM	1	0	1880	20.82	PASS
2	20	16QAM	1	0	1900	20.94	PASS



2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
4	1.4	QPSK	1	0	1710.7	22.11	PASS
4	1.4	QPSK	1	0	1732.5	22.19	PASS
4	1.4	QPSK	1	0	1754.3	22.14	PASS
4	1.4	16QAM	1	3	1710.7	21.21	PASS
4	1.4	16QAM	1	3	1732.5	21.24	PASS
4	1.4	16QAM	1	3	1754.3	21.21	PASS
4	3	QPSK	1	0	1711.5	22.22	PASS
4	3	QPSK	1	0	1732.5	22.23	PASS
4	3	QPSK	1	0	1753.5	22.21	PASS
4	3	16QAM	1	14	1711.5	22.77	PASS
4	3	16QAM	1	14	1732.5	22.75	PASS
4	3	16QAM	1	14	1753.5	22.73	PASS
4	5	QPSK	1	0	1712.5	22.46	PASS
4	5	QPSK	1	0	1732.5	22.45	PASS
4	5	QPSK	1	0	1752.5	22.48	PASS
4	5	16QAM	1	0	1712.5	22.84	PASS
4	5	16QAM	1	0	1732.5	22.8	PASS
4	5	16QAM	1	0	1752.5	22.82	PASS
4	10	QPSK	1	0	1715	22.47	PASS
4	10	QPSK	1	0	1732.5	22.45	PASS
4	10	QPSK	1	0	1750	22.44	PASS
4	10	16QAM	1	24	1715	21.81	PASS
4	10	16QAM	1	24	1732.5	21.83	PASS
4	10	16QAM	1	24	1750	21.8	PASS
4	15	QPSK	1	74	1717.5	21.37	PASS
4	15	QPSK	1	74	1732.5	21.4	PASS
4	15	QPSK	1	74	1747.5	21.38	PASS
4	15	16QAM	1	74	1717.5	20.51	PASS
4	15	16QAM	1	74	1732.5	20.46	PASS
4	15	16QAM	1	74	1747.5	20.48	PASS
4	20	QPSK	1	0	1720	21.44	PASS
4	20	QPSK	1	0	1732.5	21.47	PASS
4	20	QPSK	1	0	1745	21.49	PASS
4	20	16QAM	1	0	1720	20.58	PASS
4	20	16QAM	1	0	1732.5	20.61	PASS
4	20	16QAM	1	0	1745	20.68	PASS



3. LTE Band 5 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
5	1.4	QPSK	1	3	824.7	23.68	PASS
5	1.4	QPSK	1	3	836.5	23.71	PASS
5	1.4	QPSK	1	3	848.3	23.70	PASS
5	1.4	16QAM	1	3	824.7	22.75	PASS
5	1.4	16QAM	1	3	836.5	22.73	PASS
5	1.4	16QAM	1	3	848.3	22.92	PASS
5	3	QPSK	1	0	825.5	23.75	PASS
5	3	QPSK	1	0	836.5	23.79	PASS
5	3	QPSK	1	0	847.5	23.77	PASS
5	3	16QAM	1	0	825.5	22.03	PASS
5	3	16QAM	1	0	836.5	22.10	PASS
5	3	16QAM	1	0	847.5	22.01	PASS
5	5	QPSK	1	0	826.5	23.68	PASS
5	5	QPSK	1	0	836.5	23.65	PASS
5	5	QPSK	1	0	846.5	23.66	PASS
5	5	16QAM	1	0	826.5	22.83	PASS
5	5	16QAM	1	0	836.5	22.80	PASS
5	5	16QAM	1	0	846.5	22.81	PASS
5	10	QPSK	1	49	829.0	22.53	PASS
5	10	QPSK	1	49	836.5	22.54	PASS
5	10	QPSK	1	49	844.0	22.87	PASS
5	10	16QAM	1	0	829.0	22.13	PASS
5	10	16QAM	1	0	836.5	22.72	PASS
5	10	16QAM	1	0	844.0	22.59	PASS



4.LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
7	5	QPSK	1	12	2502.5	21.93	PASS
7	5	QPSK	1	0	2535	21.97	PASS
7	5	QPSK	1	24	2567.5	22.03	PASS
7	5	16QAM	1	24	2502.5	20.09	PASS
7	5	16QAM	1	24	2535	20.02	PASS
7	5	16QAM	1	0	2567.5	20.07	PASS
7	10	QPSK	1	24	2505	22.00	PASS
7	10	QPSK	1	49	2535	21.95	PASS
7	10	QPSK	1	24	2565	21.90	PASS
7	10	16QAM	1	24	2505	20.31	PASS
7	10	16QAM	1	49	2535	20.24	PASS
7	10	16QAM	1	24	2565	20.22	PASS
7	15	QPSK	1	37	2507.5	22.12	PASS
7	15	QPSK	1	74	2535	22.14	PASS
7	15	QPSK	1	0	2562.5	22.08	PASS
7	15	16QAM	1	37	2507.5	20.25	PASS
7	15	16QAM	1	18	2535	20.30	PASS
7	15	16QAM	1	0	2562.5	20.28	PASS
7	20	QPSK	1	0	2510	21.72	PASS
7	20	QPSK	1	0	2535	21.80	PASS
7	20	QPSK	1	0	2560	21.78	PASS
7	20	16QAM	1	0	2510	22.83	PASS
7	20	16QAM	1	0	2535	22.77	PASS
7	20	16QAM	1	0	2560	22.86	PASS



5.LTE Band 12 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
12	1.4	QPSK	1	0	699.7	21.42	PASS
12	1.4	QPSK	1	0	707.5	21.4	PASS
12	1.4	QPSK	1	0	715.3	21.43	PASS
12	1.4	16QAM	1	0	699.7	20.58	PASS
12	1.4	16QAM	1	0	707.5	20.57	PASS
12	1.4	16QAM	1	0	715.3	20.55	PASS
12	3	QPSK	1	0	700.5	21.98	PASS
12	3	QPSK	1	0	707.5	22.97	PASS
12	3	QPSK	1	0	714.5	22.95	PASS
12	3	16QAM	1	8	700.5	20.63	PASS
12	3	16QAM	1	8	707.5	20.65	PASS
12	3	16QAM	1	8	714.5	20.66	PASS
12	5	QPSK	1	24	701.5	21.58	PASS
12	5	QPSK	1	24	707.5	21.56	PASS
12	5	QPSK	1	24	713.5	21.54	PASS
12	5	16QAM	1	0	701.5	20.68	PASS
12	5	16QAM	1	0	707.5	20.71	PASS
12	5	16QAM	1	0	713.5	20.7	PASS
12	10	QPSK	1	49	704	21.99	PASS
12	10	QPSK	1	49	707.5	22.01	PASS
12	10	QPSK	1	49	711	22.03	PASS
12	10	16QAM	1	0	704	21.16	PASS
12	10	16QAM	1	0	707.5	21.15	PASS
12	10	16QAM	1	0	711	21.12	PASS



6.LTE Band 17 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
17	5	QPSK	1	24	706.5	21.01	PASS
17	5	QPSK	1	24	710	21.05	PASS
17	5	QPSK	1	12	713.5	21.11	PASS
17	5	16QAM	1	24	706.5	19.17	PASS
17	5	16QAM	1	24	710	19.10	PASS
17	5	16QAM	1	12	713.5	19.15	PASS
17	10	QPSK	1	49	709	21.08	PASS
17	10	QPSK	1	49	710	21.03	PASS
17	10	QPSK	1	49	711	20.98	PASS
17	10	16QAM	1	24	709	19.39	PASS
17	10	16QAM	1	49	710	19.32	PASS
17	10	16QAM	1	24	711	19.30	PASS

7.LTE Band 41 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
41	5	QPSK	1	0	2498.5	21.13	PASS
41	5	QPSK	1	0	2593.0	21.15	PASS
41	5	QPSK	1	0	2687.5	21.12	PASS
41	5	16QAM	1	0	2498.5	20.50	PASS
41	5	16QAM	1	0	2593.0	20.49	PASS
41	5	16QAM	1	0	2687.5	20.47	PASS
41	10	QPSK	1	49	2501.0	21.20	PASS
41	10	QPSK	1	49	2593.0	21.17	PASS
41	10	QPSK	1	49	2685.0	21.19	PASS
41	10	16QAM	1	0	2501.0	20.57	PASS
41	10	16QAM	1	0	2593.0	20.55	PASS
41	10	16QAM	1	0	2685.0	20.58	PASS
41	15	QPSK	1	0	2503.5	20.24	PASS
41	15	QPSK	1	0	2593.0	20.22	PASS
41	15	QPSK	1	0	2682.5	20.23	PASS
41	15	16QAM	1	74	2503.5	20.65	PASS
41	15	16QAM	1	74	2593.0	20.63	PASS
41	15	16QAM	1	74	2682.5	20.66	PASS
41	20	QPSK	1	0	2506.0	21.36	PASS
41	20	QPSK	1	0	2593.0	20.97	PASS
41	20	QPSK	1	0	2680.0	20.96	PASS
41	20	16QAM	1	49	2506.0	20.41	PASS
41	20	16QAM	1	49	2593.0	20.38	PASS
41	20	16QAM	1	49	2680.0	20.39	PASS



8. LTE Band 66 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
66	1.4	QPSK	1	0	1710.7	21.81	PASS
66	1.4	QPSK	1	0	1732.5	21.61	PASS
66	1.4	QPSK	1	0	1754.3	21.56	PASS
66	1.4	16QAM	1	3	1710.7	20.63	PASS
66	1.4	16QAM	1	3	1732.5	20.66	PASS
66	1.4	16QAM	1	3	1754.3	20.63	PASS
66	3	QPSK	1	0	1711.5	21.94	PASS
66	3	QPSK	1	0	1732.5	21.95	PASS
66	3	QPSK	1	0	1753.5	21.63	PASS
66	3	16QAM	1	14	1711.5	20.99	PASS
66	3	16QAM	1	14	1732.5	20.97	PASS
66	3	16QAM	1	14	1753.5	20.95	PASS
66	5	QPSK	1	0	1712.5	21.88	PASS
66	5	QPSK	1	0	1732.5	21.87	PASS
66	5	QPSK	1	0	1752.5	21.9	PASS
66	5	16QAM	1	0	1712.5	21.06	PASS
66	5	16QAM	1	0	1732.5	20.92	PASS
66	5	16QAM	1	0	1752.5	20.94	PASS
66	10	QPSK	1	0	1715	21.89	PASS
66	10	QPSK	1	0	1732.5	21.87	PASS
66	10	QPSK	1	0	1750	21.86	PASS
66	10	16QAM	1	24	1715	20.23	PASS
66	10	16QAM	1	24	1732.5	20.25	PASS
66	10	16QAM	1	24	1750	20.22	PASS
66	15	QPSK	1	74	1717.5	21.99	PASS
66	15	QPSK	1	74	1732.5	22.02	PASS
66	15	QPSK	1	74	1747.5	22	PASS
66	15	16QAM	1	74	1717.5	21.03	PASS
66	15	16QAM	1	74	1732.5	21.08	PASS
66	15	16QAM	1	74	1747.5	21.1	PASS
66	20	QPSK	1	0	1720	22.16	PASS
66	20	QPSK	1	0	1732.5	22.19	PASS
66	20	QPSK	1	0	1745	22.11	PASS
66	20	16QAM	1	0	1720	21.1	PASS
66	20	16QAM	1	0	1732.5	21.23	PASS
66	20	16QAM	1	0	1745	21.22	PASS



9. LTE Band 71 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
71	5	QPSK	1	0	665.5	21.43	PASS
71	5	QPSK	1	0	680.5	21.47	PASS
71	5	QPSK	1	0	695.5	21.53	PASS
71	5	16QAM	1	0	665.5	19.59	PASS
71	5	16QAM	1	0	680.5	19.52	PASS
71	5	16QAM	1	0	695.5	19.57	PASS
71	10	QPSK	1	0	668	21.5	PASS
71	10	QPSK	1	0	680.5	21.45	PASS
71	10	QPSK	1	0	693	21.4	PASS
71	10	16QAM	1	24	668	19.81	PASS
71	10	16QAM	1	24	680.5	19.74	PASS
71	10	16QAM	1	24	693	19.72	PASS
71	15	QPSK	1	74	670.5	21.62	PASS
71	15	QPSK	1	74	680.5	21.64	PASS
71	15	QPSK	1	74	690.5	21.58	PASS
71	15	16QAM	1	74	670.5	19.75	PASS
71	15	16QAM	1	74	680.5	19.8	PASS
71	15	16QAM	1	74	690.5	19.78	PASS
71	20	QPSK	1	0	673	21.22	PASS
71	20	QPSK	1	0	683	21.3	PASS
71	20	QPSK	1	0	688	21.28	PASS
71	20	16QAM	1	0	673	22.33	PASS
71	20	16QAM	1	0	683	22.27	PASS
71	20	16QAM	1	0	688	22.36	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Additional requirement for IC Rule: RSS130, 4.6

equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

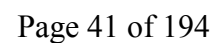
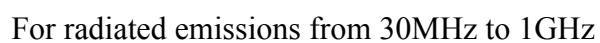
- (a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:
 - (i) $76 + 10 \log_{10} p(\text{watts})$, dB, for base and fixed equipment, and
 - (ii) $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.
- (b) The e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

2.8.2 Measuring Instruments

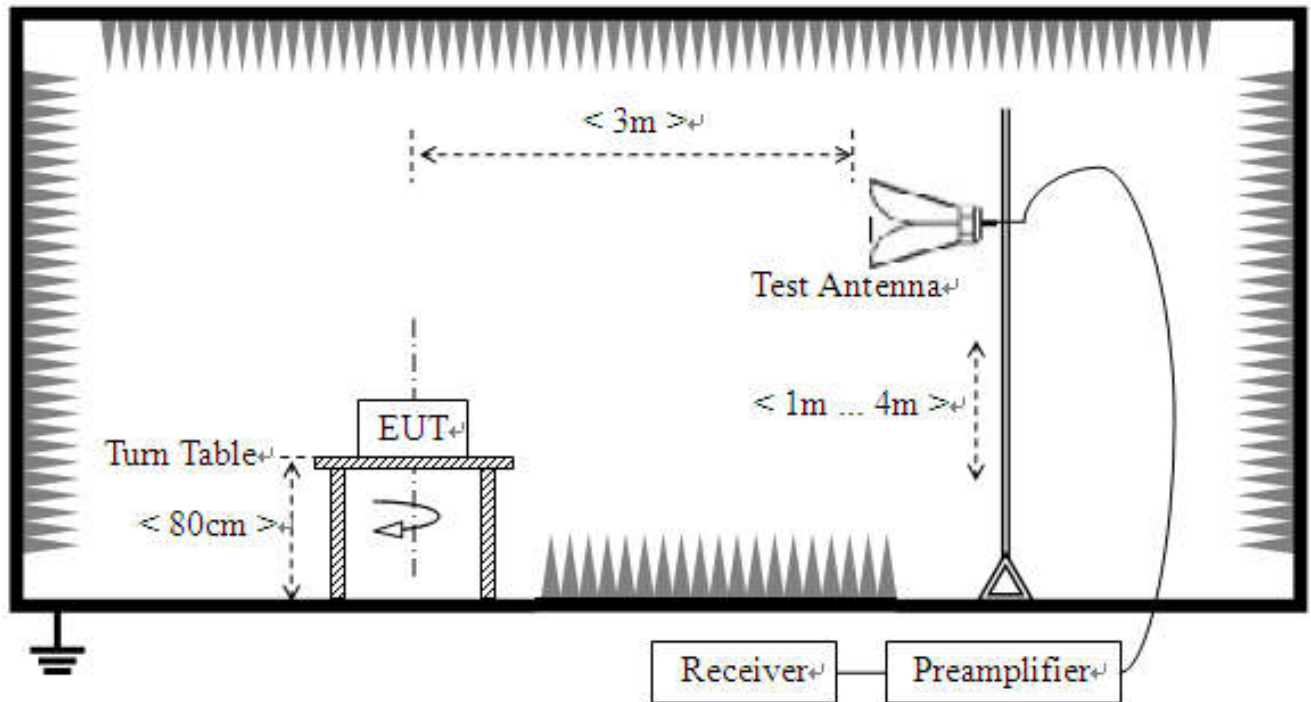
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.

10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$
 $= -13\text{dBm}.$
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1, RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

Note: 1. within 30MHz-1GHz were found more than 20dB below limit line

Note: 2. Absolute Level=Reading Level + Factor

LTE Band 2 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	499.768	-104.94	-72.31	-13	59.31	32.63	Horizontal
2	650.536	-103.95	-69.12	-13	56.12	34.83	Horizontal
3	790.438	-104.05	-67.65	-13	54.65	36.40	Horizontal
4	3768.45	-58.67	-48.19	-13	35.19	10.48	Horizontal
5	5861.22	-59.02	-42.75	-13	29.75	16.27	Horizontal
6	7983.24	-60.20	-36.59	-13	23.59	23.61	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	67.8376	-92.12	-71.16	-13	58.16	20.96	Vertical
2	755.123	-104.06	-68.17	-13	55.17	35.89	Vertical
3	899.099	-103.39	-66.23	-13	53.23	37.16	Vertical
4	3046.80	-58.31	-49.65	-13	36.65	8.66	Vertical
5	3748.94	-59.08	-48.72	-13	35.72	10.36	Vertical
6	4987.44	-59.64	-45.45	-13	32.45	14.19	Vertical

LTE Band 4 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	501.891	-105.54	-72.9	-13	59.9	32.64	Horizontal
2	665.015	-104.69	-69.93	-13	56.93	34.76	Horizontal
3	854.354	-104.48	-67.37	-13	54.37	37.11	Horizontal
4	3219.48	-57.91	-48.55	-13	35.55	9.36	Horizontal
5	3882.81	-57.87	-48.24	-13	35.24	9.63	Horizontal
6	5770.38	-58.83	-42.84	-13	29.84	15.99	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	57.1872	-91.02	-71.31	-13	58.31	19.71	Vertical
2	601.901	-104.49	-71.54	-13	58.54	32.95	Vertical
3	795.125	-103.95	-67.86	-13	54.86	36.09	Vertical
4	2971.98	-57.67	-50.03	-13	37.03	7.64	Vertical
5	3765.75	-59.16	-48.81	-13	35.81	10.35	Vertical
6	4970.48	-59.74	-45.68	-13	32.68	14.06	Vertical

LTE Band 5 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.6807	-97.11	-75.51	-13	62.51	21.60	Horizontal
2	509.659	-104.62	-71.56	-13	58.56	33.06	Horizontal
3	661.131	-104.51	-68.93	-13	55.93	35.58	Horizontal
4	2099.17	-58.82	-55.37	-13	42.37	3.45	Horizontal
5	2951.47	-57.56	-50.18	-13	37.18	7.38	Horizontal
6	3744.99	-59.27	-50.21	-13	37.21	9.06	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	48.4484	-91.62	-72.33	-13	59.33	19.29	Vertical
2	65.9259	-93.65	-72.73	-13	59.73	20.92	Vertical
3	601.901	-104.53	-70.83	-13	57.83	33.70	Vertical
4	1229.23	-57.40	-59.22	-13	46.22	-1.82	Vertical
5	2616.43	-57.60	-52.73	-13	39.73	4.87	Vertical
6	3968.35	-58.21	-49.81	-13	36.81	8.40	Vertical

LTE Band 7 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-82.82	-62.93	-25.00	37.93	19.89	Vertical
2	100.360	-90.20	-66.81	-25.00	41.81	23.39	Vertical
3	972.341	-88.68	-54.50	-25.00	29.50	34.18	Vertical
4	5108.55	-60.27	-46.19	-25.00	21.19	14.08	Vertical
5	7134.56	-60.19	-43.74	-25.00	18.74	16.45	Vertical
6	10158.5	-62.03	-38.58	-25.00	13.58	23.45	Vertical

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.2491	-86.81	-65.51	-25.00	40.51	21.30	Horizontal
2	369.184	-88.16	-62.11	-25.00	37.11	26.05	Horizontal
3	848.604	-89.00	-55.36	-25.00	30.36	33.64	Horizontal
4	5063.53	-58.62	-46.98	-25.00	21.98	11.64	Horizontal
5	7194.59	-60.77	-43.79	-25.00	18.79	16.98	Horizontal
6	10241.1	-62.63	-38.88	-25.00	13.88	23.75	Horizontal
1	38.2491	-86.81	-65.51	-25.00	40.51	21.30	Horizontal

LTE Band 12 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-82.30	-59.95	-13.00	46.95	22.35	Horizontal
2	53.3033	-79.37	-60.11	-13.00	47.11	19.26	Horizontal
3	61.0711	-88.94	-69.61	-13.00	56.61	19.33	Horizontal
4	1476.23	-57.30	-58.96	-13.00	45.96	-1.66	Horizontal
5	2080.54	-57.34	-53.18	-13.00	40.18	4.16	Horizontal
6	3029.26	-58.37	-49.15	-13.00	36.15	9.22	Horizontal
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-84.11	-63.52	-13.00	50.52	20.59	Vertical
2	53.3033	-80.10	-60.87	-13.00	47.87	19.23	Vertical
3	62.0420	-88.13	-67.84	-13.00	54.84	20.29	Vertical
4	1213.10	-57.92	-59.52	-13.00	46.52	-1.60	Vertical
5	1728.36	-57.62	-57.92	-13.00	44.92	-0.30	Vertical
6	2371.68	-56.81	-52.37	-13.00	39.37	4.44	Vertical

LTE Band 17 QPSK 10MHz BW Middle Channel`

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-83.78	-61.43	-13.00	48.43	22.35	Horizontal
2	773.745	-94.74	-58.14	-35.00	23.14	36.60	Horizontal
3	801.993	-93.65	-56.8	-35.00	21.8	36.85	Horizontal
4	1170.08	-58.23	-61.03	-13.00	48.03	-2.80	Horizontal
5	1601.73	-57.05	-58.67	-40.00	18.67	-1.62	Horizontal
6	2706.85	-57.87	-51.91	-13.00	38.91	5.96	Horizontal
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-82.14	-61.55	-13.00	48.55	20.59	Vertical
2	773.745	-93.23	-56.63	-35.00	21.63	36.60	Vertical
3	801.954	-89.74	-52.89	-35.00	17.89	36.85	Vertical
4	1297.14	-56.31	-58.85	-13.00	45.85	-2.54	Vertical
5	1601.84	-57.75	-59.37	-40.00	19.37	-1.62	Vertical
6	2582.79	-57.86	-52.10	-13.00	39.10	5.76	Vertical

LTE Band 41 QPSK 10MHz BW Middle Channel`

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-80.32	-57.97	-13.00	44.97	22.35	Horizontal
2	52.3323	-79.06	-59.81	-13.00	46.81	19.25	Horizontal
3	773.854	-93.54	-72.24	-35.00	-37.24	21.30	Horizontal
4	805.698	-57.73	-49.02	-35.00	14.02	8.71	Horizontal
5	1607.28	-58.42	-48.14	-40.00	8.14	10.28	Horizontal
6	5297.27	-59.42	-44.55	-13.00	31.55	14.87	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7968	-80.08	-59.49	-13.00	46.49	20.59	Vertical
2	53.3033	-79.96	-60.73	-13.00	47.73	19.23	Vertical
3	773.854	-89.32	-68.80	-35.00	33.8	20.52	Vertical
4	805.698	-57.42	-50.98	-35.00	15.98	6.44	Vertical
5	1607.59	-59.13	-48.85	-40.00	8.85	10.28	Vertical
6	4994.87	-59.85	-45.60	-13.00	32.60	14.25	Vertical

LTE Band 66 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	501.891	-105.54	-72.90	-36.00	36.90	32.64	Horizontal
2	665.015	-104.69	-69.93	-36.00	33.93	34.76	Horizontal
3	854.354	-104.48	-67.37	-36.00	31.37	37.11	Horizontal
4	3219.48	-57.91	-48.55	-30.00	18.55	9.36	Horizontal
5	3882.81	-57.87	-48.24	-30.00	18.24	9.63	Horizontal
6	5770.38	-58.83	-42.84	-30.00	12.84	15.99	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	57.1872	-91.02	-71.31	-36.00	35.31	19.71	Vertical
2	601.901	-104.49	-71.54	-36.00	35.54	32.95	Vertical
3	795.125	-103.95	-67.86	-36.00	31.86	36.09	Vertical
4	2971.98	-57.67	-50.03	-30.00	20.03	7.64	Vertical
5	3765.75	-59.16	-48.81	-30.00	18.81	10.35	Vertical
6	4970.48	-59.74	-45.68	-30.00	15.68	14.06	Vertical

LTE Band 71 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-86.43	-63.92	-13.00	50.92	22.51	Horizontal
2	48.4392	-90.81	-71.00	-13.00	58.00	19.81	Horizontal
3	121.710	-101.43	-81.02	-13.00	68.02	20.41	Horizontal
4	1414.20	-50.76	-53.11	-13.00	40.11	-2.35	Horizontal
5	3210.10	-58.89	-49.85	-13.00	36.85	9.04	Horizontal
6	9093.04	-61.77	-41.04	-13.00	28.04	20.73	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.96	-64.21	-13.00	51.21	20.75	Vertical
2	47.9540	-90.81	-71.50	-13.00	58.50	19.31	Vertical
3	90.1701	-101.22	-77.60	-13.00	64.60	23.62	Vertical
4	1415.20	-56.88	-59.54	-13.00	46.54	-2.66	Vertical
5	3150.07	-58.43	-49.82	-13.00	36.82	8.61	Vertical
6	8822.91	-61.58	-42.18	-13.00	29.18	19.40	Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Remark
EMI Test Receiver	R&S	ESR3	A181103297	2021.06.25	2022.06.24	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2019.04.26	2022.04.25	Radiation
Broadband antenna (30MHz~1GHz)	Schwarbeck	BBHA 9120 J	A190503537	2019.01.07	2022.01.06	Radiation
Broadband antenna (30MHz~1GHz)	R&S	VULB9160	A0805560	2019.05.24	2022.05.23	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100150	2019.04.27	2022.04.26	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100149	2019.04.17	2022.04.16	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4003A	0329293	2020.09.17	2021.09.16	Radiation
Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21	Radiation
Amplifier 1G~18GHz	MILMEGA	AS0104R-800/40 0	A160302517	2021.01.26	2022.01.25	Radiation
Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2021.04.26	2022.04.25	Conducted
Test Receiver	R&S	ESIB7	A0501375	2021.05.24	2022.05.23	Conducted
Temperature chamber	TABAI	PS-232	A8708054	2020.10.30	2021.10.29	Conducted
Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25	Conducted
Power Supply	R&S	WYJ-60100	A141102031	2020.01.16	2023.01.15	Conducted
Test software	ECIT	Eagle	V2.0	N/A	N/A	Conducted

4. UNCERTAINTY OF EVALUATION

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150KHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
---	-------



APPENDIX A

Conducted RF (Average) Output Power

Test Result and Data

LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.22	21.38	21.2	20.5±1.0
		1	3	21.16	21.18	21.09	
		1	5	21.03	21.3	21.19	
		3	0	20.89	21.06	20.94	20.5±1.0
		3	2	20.74	20.93	20.92	
		3	3	20.75	20.99	20.81	
		6	0	20.47	20.73	20.55	20.0±1.0
	16QAM	1	0	20	20.17	19.95	19.5±1.0
		1	3	19.94	19.97	19.84	
		1	5	19.81	20.09	19.94	
		3	0	19.67	19.85	19.69	19.5±1.0
		3	2	19.52	19.72	19.67	
		3	3	19.53	19.78	19.56	
		6	0	19.25	19.52	19.3	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.29	21.43	21.28	20.5±1.0
		1	7	21.23	21.23	21.17	
		1	14	21.1	21.35	21.27	
		8	0	20.96	21.11	21.02	20.5±1.0
		8	4	20.81	20.98	21	
		8	7	20.82	21.04	20.89	
		15	0	20.54	20.78	20.63	20.0±1.0
	16QAM	1	0	20.07	20.22	20.03	19.5±1.0
		1	7	20.01	20.02	19.92	
		1	14	19.88	20.14	20.02	
		8	0	19.74	19.9	19.77	19.5±1.0
		8	4	19.59	19.77	19.75	
		8	7	19.6	19.83	19.64	
		15	0	19.32	19.57	19.38	19.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.34	21.46	21.32	20.5±1.0
		1	13	21.28	21.26	21.21	
		1	24	21.15	21.38	21.31	
		12	0	21.01	21.14	21.06	20.5±1.0
		12	6	20.86	21.01	21.04	
		12	13	20.87	21.07	20.93	
		25	0	20.59	20.81	20.67	20.0±1.0
	16QAM	1	0	20.12	20.25	20.07	19.5±1.0
		1	13	20.06	20.05	19.96	
		1	24	19.93	20.17	20.06	
		12	0	19.79	19.93	19.81	19.5±1.0
		12	6	19.64	19.8	19.79	
		12	13	19.65	19.86	19.68	
		25	0	19.37	19.6	19.42	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.39	21.49	21.36	20.5±1.0
		1	25	21.33	21.29	21.25	
		1	49	21.2	21.41	21.35	
		25	0	21.06	21.17	21.1	20.5±1.0
		25	13	20.91	21.04	21.08	
		25	25	20.92	21.1	20.97	
		50	0	20.64	20.84	20.71	20.0±1.0
	16QAM	1	0	20.17	20.28	20.11	19.5±1.0
		1	25	20.11	20.08	20	
		1	49	19.98	20.2	20.1	
		25	0	19.84	19.96	19.85	19.5±1.0
		25	13	19.69	19.83	19.83	
		25	25	19.7	19.89	19.72	
		50	0	19.42	19.63	19.46	19.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.45	21.53	21.42	20.8±1.0
		1	38	21.39	21.33	21.31	
		1	74	21.26	21.45	21.41	
		36	0	21.12	21.21	21.16	20.5±1.0
		36	18	20.97	21.08	21.14	
		36	39	20.98	21.14	21.03	
		75	0	20.7	20.88	20.77	20.0±1.0
	16QAM	1	0	20.23	20.32	20.17	19.5±1.0
		1	38	20.17	20.12	20.06	
		1	74	20.04	20.24	20.16	
		36	0	19.9	20	19.91	19.5±1.0
		36	18	19.75	19.87	19.89	
		36	39	19.76	19.93	19.78	
		75	0	19.48	19.67	19.52	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.53	21.66	21.48	20.8±1.0
		1	50	21.47	21.36	21.37	
		1	99	21.34	21.48	21.47	
		50	0	21.2	21.24	21.22	20.5±1.0
		50	25	21.05	21.11	21.2	
		50	50	21.06	21.17	21.09	
		100	0	20.78	20.91	20.83	20.0±1.0
	16QAM	1	0	20.31	20.45	20.23	19.5±1.0
		1	50	20.25	20.15	20.12	
		1	99	20.12	20.27	20.22	
		50	0	19.98	20.03	19.97	19.5±1.0
		50	25	19.83	19.9	19.95	
		50	50	19.84	19.96	19.84	
		100	0	19.56	19.7	19.58	19.0±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.48	21.64	21.41	21.0±1.0
		1	3	21.42	21.25	21.31	
		1	5	21.16	21.51	21.44	
		3	0	20.98	21.13	20.86	20.5±1.0
		3	2	20.82	20.87	20.94	
		3	3	20.89	20.99	20.93	
		6	0	20.29	20.49	20.28	19.5±1.0
	16QAM	1	0	20.15	20.34	20.06	20.0±1.0
		1	3	20.09	19.95	19.96	
		1	5	19.83	20.21	20.09	
		3	0	19.65	19.83	19.51	19.5±1.0
		3	2	19.49	19.57	19.59	
		3	3	19.56	19.69	19.58	
		6	0	18.96	19.19	18.93	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.54	21.69	21.46	21.0±1.0
		1	7	21.48	21.3	21.36	
		1	14	21.22	21.56	21.49	
		8	0	21.04	21.18	20.91	20.5±1.0
		8	4	20.88	20.92	20.99	
		8	7	20.95	21.04	20.98	
		15	0	20.35	20.54	20.33	19.5±1.0
	16QAM	1	0	20.21	20.39	20.11	20.0±1.0
		1	7	20.15	20	20.01	
		1	14	19.89	20.26	20.14	
		8	0	19.71	19.88	19.56	19.5±1.0
		8	4	19.55	19.62	19.64	
		8	7	19.62	19.74	19.63	
		15	0	19.02	19.24	18.98	19.0±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.6	21.73	21.51	21.0±1.0
		1	13	21.54	21.34	21.41	
		1	24	21.28	21.6	21.54	
		12	0	21.1	21.22	20.96	20.5±1.0
		12	6	20.94	20.96	21.04	
		12	13	21.01	21.08	21.03	
		25	0	20.41	20.58	20.38	19.5±1.0
	16QAM	1	0	20.27	20.43	20.16	20.0±1.0
		1	13	20.21	20.04	20.06	
		1	24	19.95	20.3	20.19	
		12	0	19.77	19.92	19.61	19.5±1.0
		12	6	19.61	19.66	19.69	
		12	13	19.68	19.78	19.68	
		25	0	19.08	19.28	19.03	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.66	21.77	21.56	21.0±1.0
		1	25	21.6	21.38	21.46	
		1	49	21.34	21.64	21.59	
		25	0	21.16	21.26	21.01	20.5±1.0
		25	13	21	21	21.09	
		25	25	21.07	21.12	21.08	
		50	0	20.47	20.62	20.43	19.5±1.0
	16QAM	1	0	20.33	20.47	20.21	20.0±1.0
		1	25	20.27	20.08	20.11	
		1	49	20.01	20.34	20.24	
		25	0	19.83	19.96	19.66	19.5±1.0
		25	13	19.67	19.7	19.74	
		25	25	19.74	19.82	19.73	
		50	0	19.14	19.32	19.08	19.0±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.73	21.82	21.64	21.0±1.0
		1	38	21.67	21.43	21.54	
		1	74	21.41	21.69	21.67	
		36	0	21.23	21.31	21.09	20.5±1.0
		36	18	21.07	21.05	21.17	
		36	39	21.14	21.17	21.16	
		75	0	20.54	20.67	20.51	19.5±1.0
	16QAM	1	0	20.4	20.52	20.29	20.0±1.0
		1	38	20.34	20.13	20.19	
		1	74	20.08	20.39	20.32	
		36	0	19.9	20.01	19.74	19.5±1.0
		36	18	19.74	19.75	19.82	
		36	39	19.81	19.87	19.81	
		75	0	19.21	19.37	19.16	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.76	21.86	21.67	21.0±1.0
		1	50	21.5	21.69	21.66	
		1	99	21.64	21.63	21.51	
		50	0	21.27	21.32	21.08	20.5±1.0
		50	25	21.07	21.18	21.16	
		50	50	21.08	21.14	21.01	
		100	0	20.61	20.74	20.52	19.5±1.0
	16QAM	1	0	20.43	20.56	20.32	20.0±1.0
		1	50	20.07	20.28	20.06	
		1	99	20.18	20.36	20.25	
		50	0	19.94	20.02	19.73	19.5±1.0
		50	25	19.82	19.71	19.7	
		50	50	19.87	19.79	19.67	
		100	0	19.28	19.44	19.17	19.0±1.0



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	21.43	21.55	21.48	20.8±1.0
		1	3	21.42	21.43	21.29	
		1	5	21.42	21.57	21.31	
		3	0	21.12	21.2	20.98	20.5±1.0
		3	2	20.88	20.96	21.03	
		3	3	20.98	21.07	21.05	
		6	0	20.6	20.75	20.73	20.0±1.0
	16QAM	1	0	20.18	20.32	20.22	19.5±1.0
		1	3	20.14	20.18	20.02	
		1	5	20.14	20.32	20.04	
		3	0	19.84	19.97	19.68	19.5±1.0
		3	2	19.6	19.71	19.76	
		3	3	19.7	19.82	19.78	
		6	0	19.32	19.5	19.46	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	21.52	21.60	21.56	20.8±1.0
		1	7	21.51	21.48	21.37	
		1	14	21.51	21.62	21.39	
		8	0	21.21	21.25	21.06	20.5±1.0
		8	4	20.97	21.01	21.11	
		8	7	21.07	21.12	21.13	
		15	0	20.69	20.8	20.81	20.0±1.0
	16QAM	1	0	20.27	20.37	20.3	19.5±1.0
		1	7	20.23	20.23	20.1	
		1	14	20.23	20.37	20.12	
		8	0	19.93	20.02	19.76	19.5±1.0
		8	4	19.69	19.76	19.84	
		8	7	19.79	19.87	19.86	
		15	0	19.41	19.55	19.54	19.0±1.0



LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	21.55	21.62	21.57	20.8±1.0
		1	13	21.53	21.48	21.45	
		1	24	21.48	21.41	21.55	
		12	0	21.21	21.27	21.03	20.5±1.0
		12	6	20.96	21.12	21.12	
		12	13	21.05	21.06	20.96	
		25	0	20.71	20.73	20.77	20.0±1.0
	16QAM	1	0	20.27	20.37	20.3	19.5±1.0
		1	13	20.25	20.23	20.18	
		1	24	20.2	20.16	20.28	
		12	0	19.93	20.02	19.76	19.5±1.0
		12	6	19.68	19.87	19.85	
		12	13	19.77	19.81	19.69	
		25	0	19.43	19.48	19.5	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	21.61	21.67	21.62	20.8±1.0
		1	25	21.59	21.53	21.5	
		1	49	21.54	21.46	21.6	
		25	0	21.27	21.32	21.08	20.5±1.0
		25	13	21.02	21.17	21.17	
		25	25	21.11	21.11	21.01	
		50	0	20.77	20.78	20.82	20.0±1.0
	16QAM	1	0	20.33	20.42	20.35	19.5±1.0
		1	25	20.31	20.28	20.23	
		1	49	20.26	20.21	20.33	
		25	0	19.99	20.07	19.81	19.5±1.0
		25	13	19.74	19.92	19.9	
		25	25	19.83	19.86	19.74	
		50	0	19.49	19.53	19.55	19.0±1.0



4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.32	21.46	21.41	20.5±1.0
		1	13	21.19	21.25	21.17	
		1	24	21.39	21.43	21.27	
		12	0	21.11	20.98	20.87	20.5±1.0
		12	6	20.77	20.87	20.94	
		12	13	20.82	20.86	20.78	
		25	0	20.51	20.61	20.61	20.0±1.0
	16QAM	1	0	20.04	20.21	20.14	19.5±1.0
		1	13	19.91	20	19.9	
		1	24	20.11	20.18	20	
		12	0	19.83	19.73	19.6	19.5±1.0
		12	6	19.49	19.62	19.67	
		12	13	19.54	19.61	19.51	
		25	0	19.23	19.36	19.34	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.41	21.51	21.49	20.7±1.0
		1	25	21.28	21.3	21.25	
		1	49	21.48	21.48	21.35	
		25	0	21.2	21.03	20.95	20.5±1.0
		25	13	20.86	20.92	21.02	
		25	25	20.91	20.91	20.86	
		50	0	20.6	20.66	20.69	20.0±1.0
	16QAM	1	0	20.13	20.26	20.22	19.5±1.0
		1	25	20	20.05	19.98	
		1	49	20.2	20.23	20.08	
		25	0	19.92	19.78	19.68	19.5±1.0
		25	13	19.58	19.67	19.75	
		25	25	19.63	19.66	19.59	
		50	0	19.32	19.41	19.42	19.0±1.0



LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.5	21.56	21.57	20.7±1.0
		1	38	21.37	21.35	21.33	
		1	74	21.57	21.53	21.43	
		36	0	21.29	21.08	21.03	20.5±1.0
		36	18	20.95	20.97	21.1	
		36	39	21	20.96	20.94	
		75	0	20.69	20.71	20.77	20.0±1.0
	16QAM	1	0	20.22	20.31	20.3	19.5±1.0
		1	38	20.09	20.1	20.06	
		1	74	20.29	20.28	20.16	
		36	0	20.01	19.83	19.76	19.5±1.0
		36	18	19.67	19.72	19.83	
		36	39	19.72	19.71	19.67	
		75	0	19.41	19.46	19.5	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.59	21.61	21.65	20.7±1.0
		1	50	21.46	21.4	21.41	
		1	99	21.66	21.58	21.51	
		50	0	21.38	21.13	21.11	20.5±1.0
		50	25	21.04	21.02	21.18	
		50	50	21.09	21.01	21.02	
		100	0	20.78	20.76	20.85	20.0±1.0
	16QAM	1	0	20.31	20.36	20.38	19.5±1.0
		1	50	20.18	20.15	20.14	
		1	99	20.38	20.33	20.24	
		50	0	20.1	19.88	19.84	19.5±1.0
		50	25	19.76	19.77	19.91	
		50	50	19.81	19.76	19.75	
		100	0	19.5	19.51	19.58	19.0±1.0



5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	21.58	21.61	21.43	21.0±1.0
		1	3	21.25	21.5	21.41	
		1	5	21.25	21.5	21.34	
		3	0	20.98	21.15	20.94	20.5±1.0
		3	2	20.9	20.86	20.87	
		3	3	20.8	20.86	20.94	
		6	0	20.55	20.68	20.51	20.0±1.0
	16QAM	1	0	20.3	20.36	20.16	20.0±1.0
		1	3	19.99	20.05	20.16	
		1	5	20.12	20.03	20.05	
		3	0	19.7	19.9	19.67	19.5±1.0
		3	2	19.62	19.61	19.6	
		3	3	19.52	19.61	19.67	
		6	0	19.27	19.43	19.24	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	21.67	21.66	21.51	21.0±1.0
		1	7	21.34	21.55	21.49	
		1	14	21.34	21.55	21.42	
		8	0	21.07	21.2	21.02	20.5±1.0
		8	4	20.99	20.91	20.95	
		8	7	20.89	20.91	21.02	
		15	0	20.64	20.73	20.59	20.0±1.0
	16QAM	1	0	20.39	20.41	20.24	20.0±1.0
		1	7	20.08	20.1	20.24	
		1	14	20.21	20.08	20.13	
		8	0	19.79	19.95	19.75	19.5±1.0
		8	4	19.71	19.66	19.68	
		8	7	19.61	19.66	19.75	
		15	0	19.36	19.48	19.32	19.0±1.0



LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	21.76	21.71	21.59	21.0±1.0
		1	13	21.43	21.6	21.57	
		1	24	21.43	21.6	21.5	
		12	0	21.16	21.25	21.1	20.5±1.0
		12	6	21.08	20.96	21.03	
		12	13	20.98	20.96	21.1	
		25	0	20.73	20.78	20.67	20.0±1.0
	16QAM	1	0	20.48	20.46	20.32	20.0±1.0
		1	13	20.17	20.15	20.32	
		1	24	20.3	20.13	20.21	
		12	0	19.88	20	19.83	19.5±1.0
		12	6	19.8	19.71	19.76	
		12	13	19.7	19.71	19.83	
		25	0	19.45	19.53	19.4	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	21.85	21.76	21.67	21.0±1.0
		1	25	21.52	21.65	21.65	
		1	49	21.52	21.65	21.58	
		25	0	21.25	21.30	21.18	20.5±1.0
		25	13	21.17	21.01	21.11	
		25	25	21.07	21.01	21.18	
		50	0	20.82	20.83	20.75	20.0±1.0
	16QAM	1	0	20.57	20.51	20.40	20.0±1.0
		1	25	20.26	20.20	20.40	
		1	49	20.39	20.18	20.29	
		25	0	19.97	20.05	19.91	19.5±1.0
		25	13	19.89	19.76	19.84	
		25	25	19.79	19.76	19.91	
		50	0	19.54	19.58	19.48	19.0±1.0



6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	21.59	21.76	21.68	21.0±1.0
		1	13	21.49	21.51	21.57	
		1	24	21.34	21.63	21.44	
		12	0	21.23	21.08	21.23	20.5±1.0
		12	6	21.1	21.02	21.07	
		12	13	20.98	21.03	21.1	
		25	0	20.69	20.84	20.68	20.0±1.0
	16QAM	1	0	20.31	20.51	20.41	20.0±1.0
		1	13	20.21	20.26	20.3	
		1	24	20.06	20.38	20.17	
		12	0	19.95	19.83	19.96	19.5±1.0
		12	6	19.82	19.77	19.8	
		12	13	19.7	19.78	19.83	
		25	0	19.41	19.59	19.41	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	21.68	21.81	21.76	21.0±1.0
		1	25	21.58	21.56	21.65	
		1	49	21.43	21.68	21.52	
		25	0	21.32	21.13	21.31	20.5±1.0
		25	13	21.19	21.07	21.15	
		25	25	21.07	21.08	21.18	
		50	0	20.78	20.89	20.76	20.0±1.0
	16QAM	1	0	20.4	20.56	20.49	20.0±1.0
		1	25	20.3	20.31	20.38	
		1	49	20.15	20.43	20.25	
		25	0	20.04	19.88	20.04	19.5±1.0
		25	13	19.91	19.82	19.88	
		25	25	19.79	19.83	19.91	
		50	0	19.5	19.64	19.49	19.0±1.0



7. LTE Band 41 Conducted Power Test Verdict:

LTE FDD Band 41				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593	41565/2687.5	
5MHz	QPSK	1	0	21.14	21.3	21.18	20.5±1.0
		1	13	21.13	21.17	21.12	
		1	24	20.93	21.22	20.97	
		12	0	20.97	21.13	21.08	20.5±1.0
		12	6	20.89	21.05	20.91	
		12	13	20.86	20.97	20.77	
		25	0	20.49	20.65	20.55	20.0±1.0
	16QAM	1	0	19.86	20.05	19.91	19.5±1.0
		1	13	19.85	19.92	19.85	
		1	24	19.65	19.97	19.7	
		12	0	19.69	19.88	19.81	19.5±1.0
		12	6	19.61	19.8	19.64	
		12	13	19.58	19.72	19.5	
		25	0	19.21	19.4	19.28	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501	40620/2593	41540/2685	
10MHz	QPSK	1	0	21.23	21.35	21.26	20.5±1.0
		1	25	21.22	21.22	21.2	
		1	49	21.02	21.27	21.05	
		25	0	21.06	21.18	21.16	20.5±1.0
		25	13	20.98	21.1	20.99	
		25	25	20.95	21.02	20.85	
		50	0	20.58	20.7	20.63	20.0±1.0
	16QAM	1	0	19.95	20.1	19.99	19.5±1.0
		1	25	19.94	19.97	19.93	
		1	49	19.74	20.02	19.78	
		25	0	19.78	19.93	19.89	19.5±1.0
		25	13	19.7	19.85	19.72	
		25	25	19.67	19.77	19.58	
		50	0	19.3	19.45	19.36	19.0±1.0



LTE FDD Band 41				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39725/2503.5	40620/2593	41515/2682.5	
15MHz	QPSK	1	0	21.32	21.4	21.34	20.5±1.0
		1	38	21.31	21.27	21.28	
		1	74	21.11	21.32	21.13	
		36	0	21.15	21.23	21.24	20.5±1.0
		36	18	21.07	21.15	21.07	
		36	39	21.04	21.07	20.93	
		75	0	20.67	20.75	20.71	20.0±1.0
	16QAM	1	0	20.04	20.15	20.07	19.5±1.0
		1	38	20.03	20.02	20.01	
		1	74	19.83	20.07	19.86	
		36	0	19.87	19.98	19.97	19.5±1.0
		36	18	19.79	19.9	19.8	
		36	39	19.76	19.82	19.66	
		75	0	19.39	19.5	19.44	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39750/2506	40620/2593	41490/2680	
20MHz	QPSK	1	0	21.41	21.45	21.42	20.5±1.0
		1	50	21.4	21.32	21.36	
		1	99	21.2	21.37	21.21	
		50	0	21.24	21.28	21.32	20.5±1.0
		50	25	21.16	21.2	21.15	
		50	50	21.13	21.12	21.01	
		100	0	20.76	20.8	20.79	20.0±1.0
	16QAM	1	0	20.13	20.2	20.15	19.5±1.0
		1	50	20.12	20.07	20.09	
		1	99	19.92	20.12	19.94	
		50	0	19.96	20.03	20.05	19.5±1.0
		50	25	19.88	19.95	19.88	
		50	50	19.85	19.87	19.74	
		100	0	19.48	19.55	19.52	19.0±1.0



8. LTE Band 66 Conducted Power Test Verdict:

LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.07	21.18	20.95	20.5±1.0
		1	3	20.89	21.18	20.96	
		1	5	20.98	21.12	20.98	
		3	0	20.64	20.68	20.45	20.0±1.0
		3	2	20.58	20.69	20.41	
		3	3	20.51	20.53	20.35	
		6	0	20.34	20.45	20.22	20.0±1.0
	16QAM	1	0	20.07	20.08	19.85	19.5±1.0
		1	3	20.1	20.22	20.04	
		1	5	19.96	20.2	19.89	
		3	0	19.71	19.8	19.59	19.5±1.0
		3	2	19.72	19.81	19.6	
		3	3	19.8	19.71	19.68	
		6	0	19.45	19.55	19.42	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131987/1711.5	12322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.12	21.21	21.01	20.5±1.0
		1	7	20.94	21.21	21.02	
		1	14	21.03	21.15	21.04	
		8	0	20.69	20.71	20.51	20.0±1.0
		8	4	20.63	20.72	20.47	
		8	7	20.56	20.56	20.41	
		15	0	20.39	20.48	20.28	20.0±1.0
	16QAM	1	0	20.12	20.11	19.91	19.5±1.0
		1	7	20.15	20.25	20.1	
		1	14	20.01	20.23	19.95	
		8	0	19.76	19.83	19.65	19.5±1.0
		8	4	19.77	19.84	19.66	
		8	7	19.85	19.74	19.74	
		15	0	19.5	19.58	19.48	19.0±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.17	21.24	21.07	20.5±1.0
		1	13	20.99	21.24	21.08	
		1	24	21.08	21.18	21.1	
		12	0	20.74	20.74	20.57	20.0±1.0
		12	6	20.68	20.75	20.53	
		12	13	20.61	20.59	20.47	
		25	0	20.44	20.51	20.34	20.0±1.0
	16QAM	1	0	20.17	20.14	19.97	19.5±1.0
		1	13	20.2	20.28	20.16	
		1	24	20.06	20.26	20.01	
		12	0	19.81	19.86	19.71	19.5±1.0
		12	6	19.82	19.87	19.72	
		12	13	19.9	19.77	19.8	
		25	0	19.55	19.61	19.54	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.23	21.28	21.15	20.5±1.0
		1	25	21.05	21.28	21.16	
		1	49	21.14	21.22	21.18	
		25	0	20.8	20.78	20.65	20.0±1.0
		25	13	20.74	20.79	20.61	
		25	25	20.67	20.63	20.55	
		50	0	20.5	20.55	20.42	20.0±1.0
	16QAM	1	0	20.23	20.18	20.05	19.5±1.0
		1	25	20.26	20.32	20.24	
		1	49	20.12	20.3	20.09	
		25	0	19.87	19.9	19.79	19.5±1.0
		25	13	19.88	19.91	19.8	
		25	25	19.96	19.81	19.88	
		50	0	19.61	19.65	19.62	19.0±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.29	21.32	21.23	20.5±1.0
		1	38	21.11	21.32	21.24	
		1	74	21.2	21.26	21.26	
		36	0	20.86	20.82	20.73	20.0±1.0
		36	18	20.8	20.83	20.69	
		36	39	20.73	20.67	20.63	
		75	0	20.56	20.59	20.5	20.0±1.0
	16QAM	1	0	20.29	20.22	20.13	19.5±1.0
		1	38	20.32	20.36	20.32	
		1	74	20.18	20.34	20.17	
		36	0	19.93	19.94	19.87	19.5±1.0
		36	18	19.94	19.95	19.88	
		36	39	20.02	19.85	19.96	
		75	0	19.67	19.69	19.7	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.35	21.36	21.31	20.5±1.0
		1	50	21.17	21.36	21.32	
		1	99	21.26	21.3	21.34	
		50	0	20.92	20.86	20.81	20.0±1.0
		50	25	20.86	20.87	20.77	
		50	50	20.79	20.71	20.71	
		100	0	20.62	20.63	20.58	20.0±1.0
	16QAM	1	0	20.35	20.26	20.21	19.5±1.0
		1	50	20.38	20.4	20.4	
		1	99	20.24	20.38	20.25	
		50	0	19.99	19.98	19.95	19.5±1.0
		50	25	20	19.99	19.96	
		50	50	20.08	19.89	20.04	
		100	0	19.73	19.73	19.78	19.0±1.0



9. LTE Band 71 Conducted Power Test Verdict:

LTE FDD Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	22.09	22.17	21.95	22.5±1.0
		1	13	22.13	21.91	21.98	
		1	24	22.03	22.12	22.11	
		12	0	21.8	21.78	21.65	22.5±1.0
		12	6	21.69	21.72	21.78	
		12	13	21.73	21.84	21.84	
		25	0	21.48	21.48	21.49	22.0±1.0
	16QAM	1	0	21.27	21.3	21.1	21.5±1.0
		1	13	21.09	21.09	21.25	
		1	24	21.15	21.22	21.23	
		12	0	20.9	20.96	20.81	21.5±1.0
		12	6	20.92	20.98	20.72	
		12	13	20.9	20.81	20.8	
		25	0	20.56	20.55	20.56	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133172/668	133297/680.5	133422/693	
10MHz	QPSK	1	0	22.14	21.91	21.98	22.7±1.0
		1	25	22.04	21.97	21.94	
		1	49	22.11	21.94	21.99	
		25	0	21.61	21.84	21.65	22.5±1.0
		25	13	21.7	21.6	21.8	
		25	25	21.68	21.84	21.79	
		50	0	21.46	21.45	21.47	22.0±1.0
	16QAM	1	0	21.15	21.14	21.09	21.5±1.0
		1	25	21.27	21.18	21.33	
		1	49	21.27	21.07	21.07	
		25	0	20.78	20.72	20.79	21.5±1.0
		25	13	20.72	21	20.82	
		25	25	20.95	20.76	20.74	
		50	0	20.64	20.61	20.59	21.0±1.0



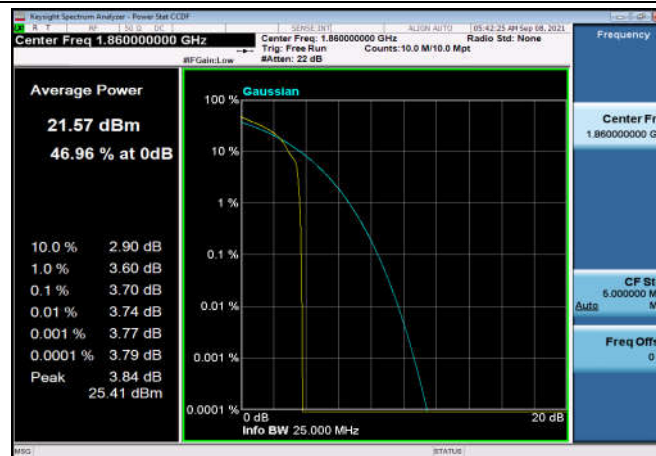
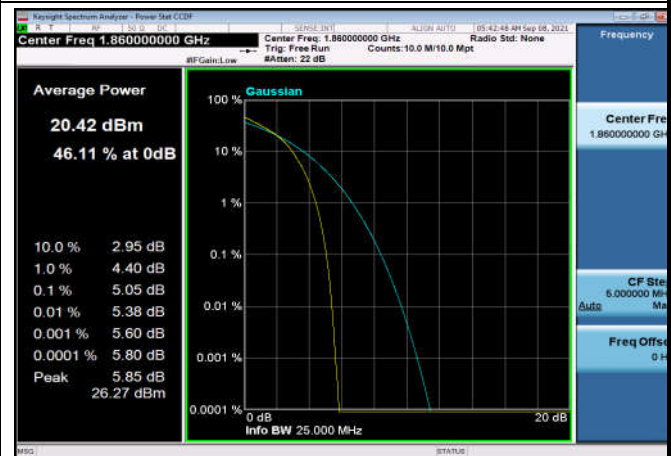
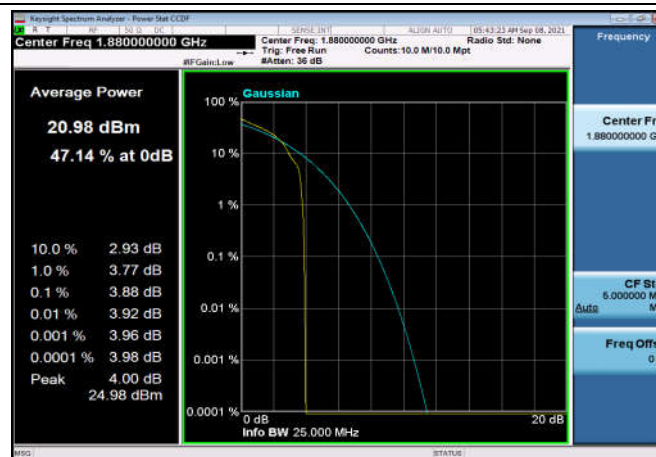
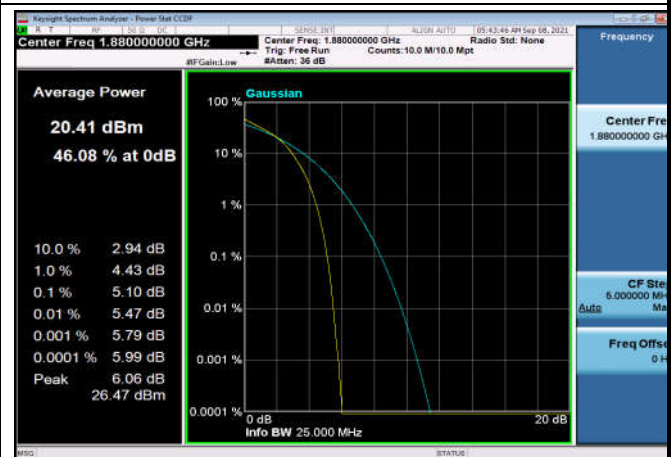
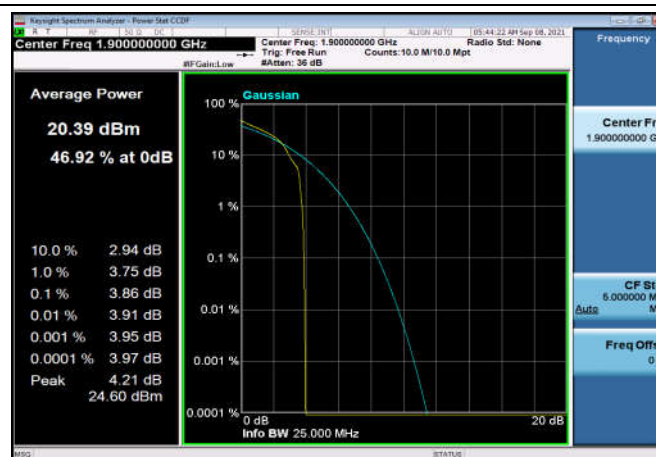
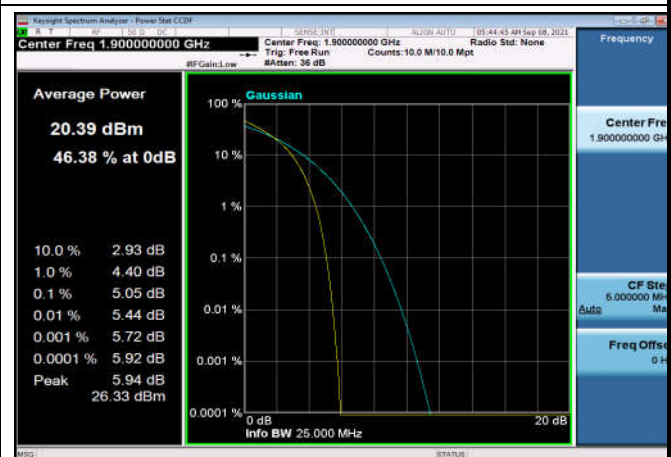
LTE FDD Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	21.91	22.03	21.99	22.7±1.0
		1	38	21.98	22.13	21.94	
		1	74	22.11	21.97	21.94	
		36	0	21.61	21.56	21.66	22.5±1.0
		36	18	21.76	21.66	21.84	
		36	39	21.57	21.75	21.61	
		75	0	21.49	21.42	21.48	22.0±1.0
	16QAM	1	0	21.26	21.29	21.33	21.5±1.0
		1	38	21.3	21.05	21.14	
		1	74	21.15	21.17	21.32	
		36	0	20.85	20.89	20.81	21.5±1.0
		36	18	20.8	20.82	20.79	
		36	39	20.78	20.99	21	
		75	0	20.61	20.65	20.59	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133222/673	133322/683	133372/688	
20MHz	QPSK	1	0	22.19	22.26	22.21	22.7±1.0
		1	50	22.08	22.02	22.08	
		1	99	22.02	21.94	22	
		50	0	21.78	21.82	21.66	22.5±1.0
		50	25	21.8	21.76	21.64	
		50	50	21.69	21.66	21.65	
		100	0	21.42	21.47	21.43	22.0±1.0
	16QAM	1	0	21.13	21.31	21.26	21.5±1.0
		1	50	21.27	21.23	21.3	
		1	99	21.35	21.28	21.11	
		50	0	21	20.76	20.77	21.5±1.0
		50	25	20.7	20.94	20.73	
		50	50	20.95	20.75	20.95	
		100	0	20.56	20.56	20.62	21.0±1.0

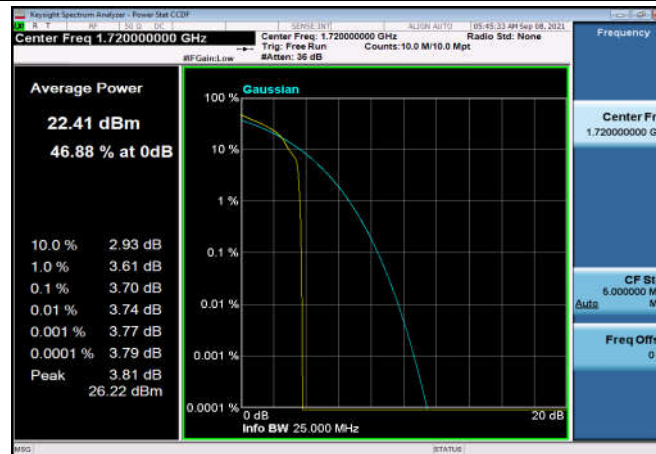
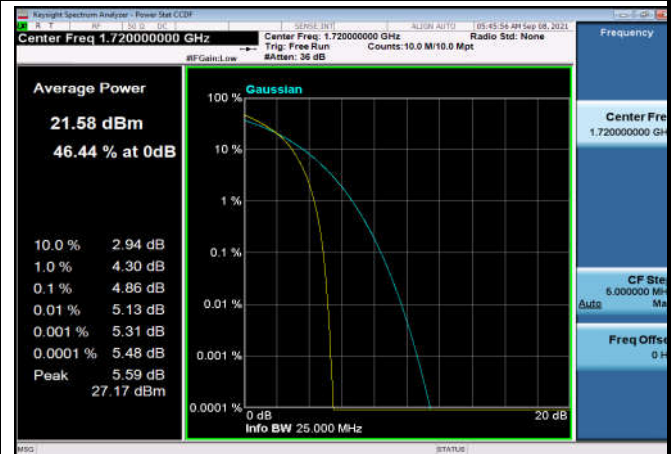
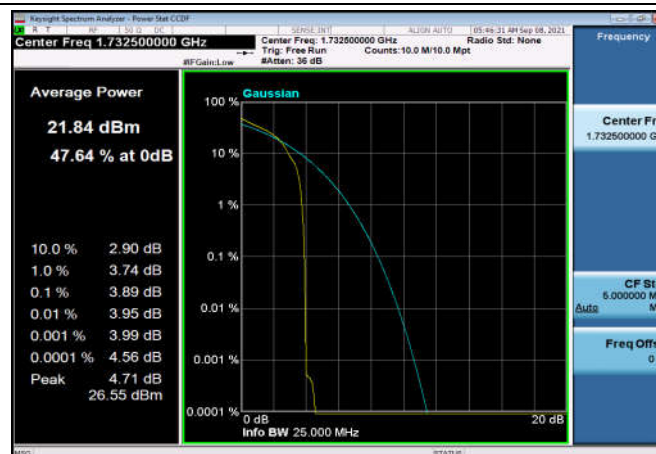
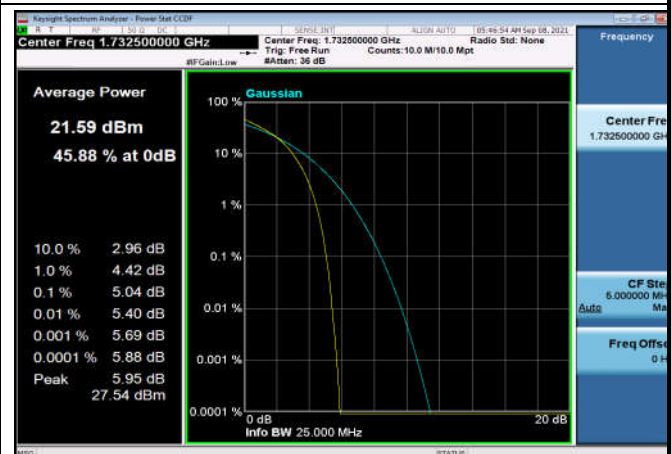
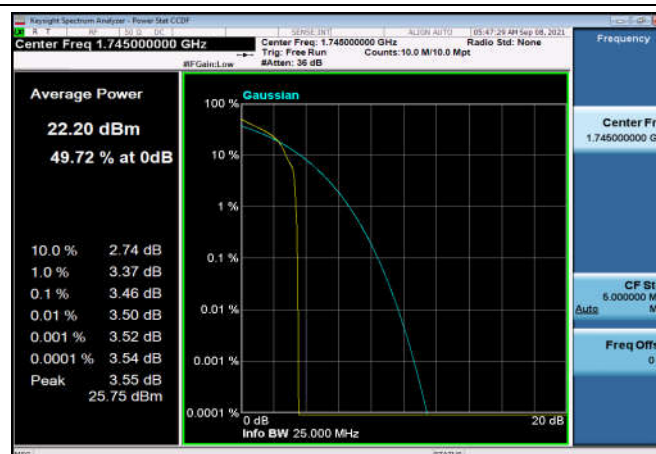
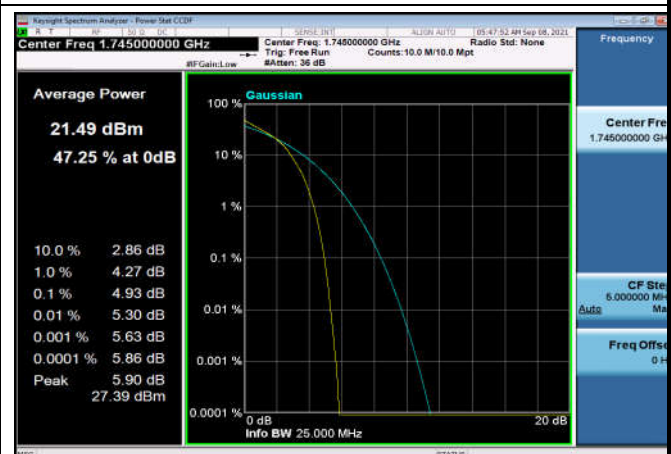
**Peak To Average Ratio****Test Result and Data**

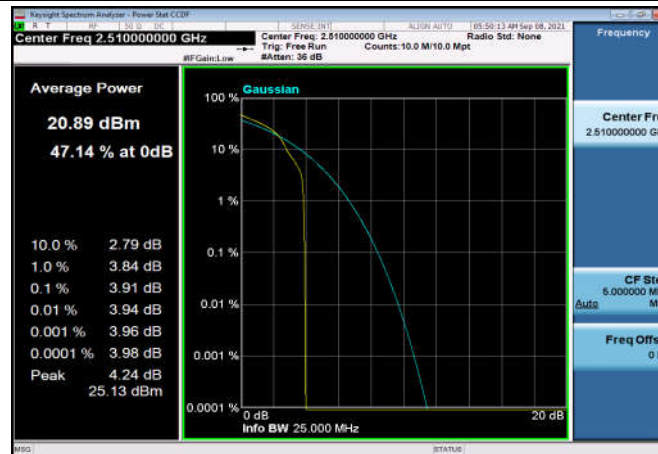
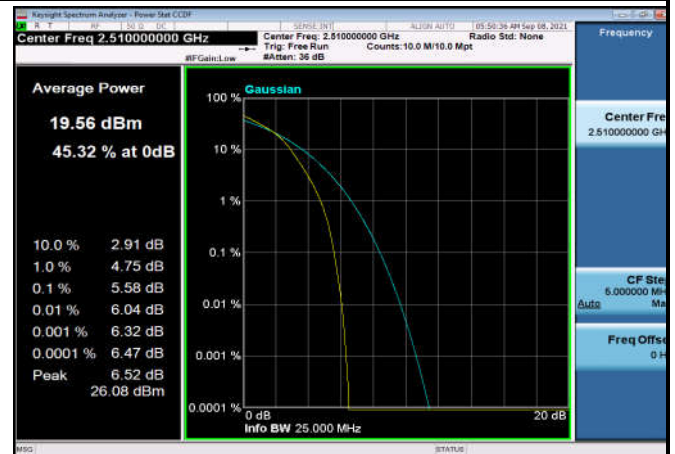
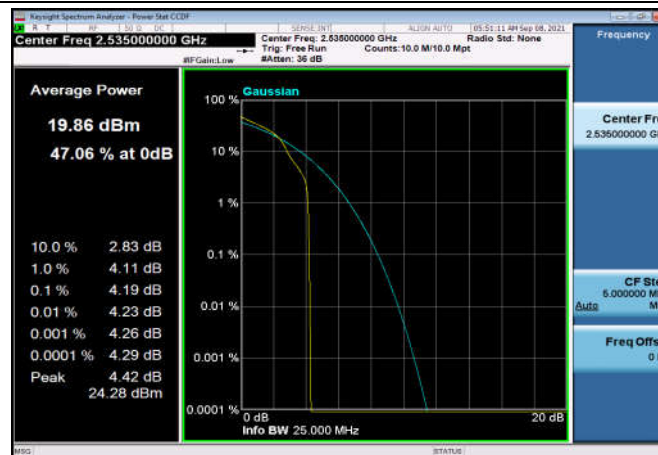
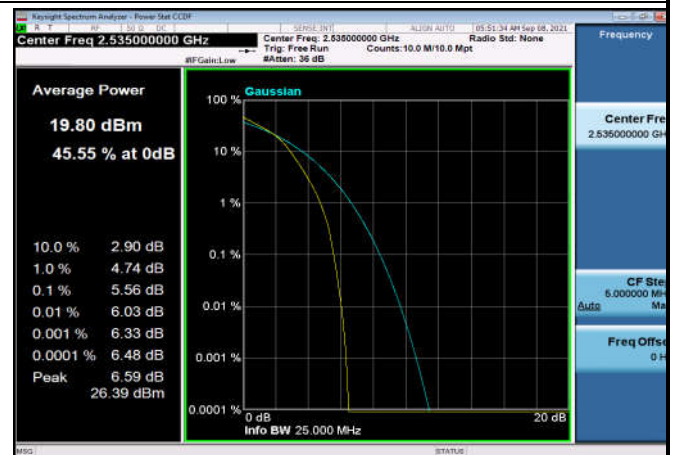
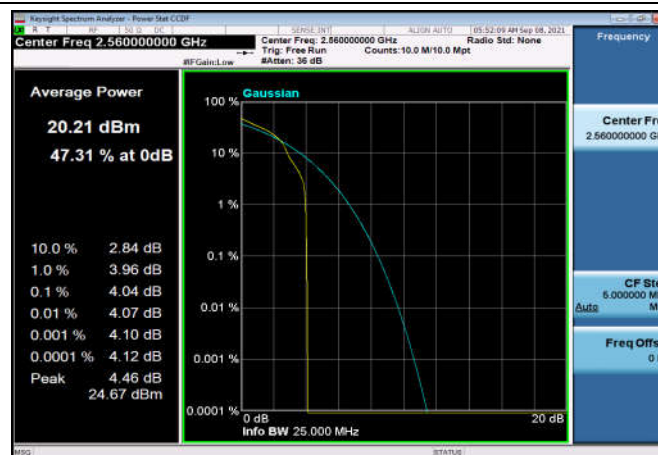
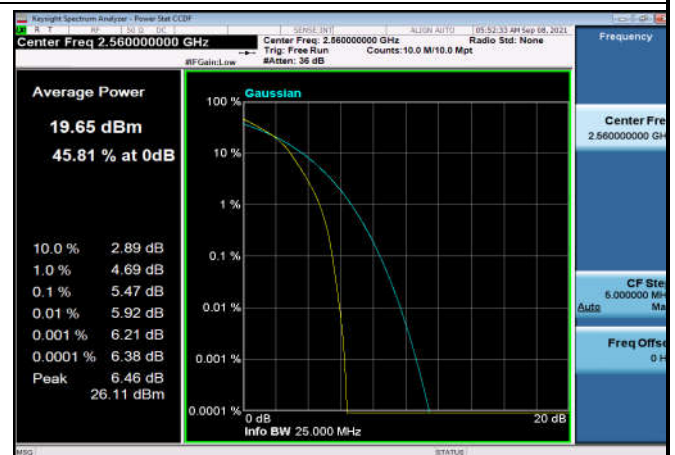
PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	20	OneRB_high	Q16	3.70	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	5.05	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	3.88	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.10	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	3.86	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	5.05	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	3.70	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	4.86	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	3.89	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	5.04	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	3.46	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	4.93	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	3.91	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.58	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	4.19	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	5.56	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.04	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.47	13.00	Pass
TDD41	LowRange	20	OneRB_high	Q16		13.00	Pass
TDD41	LowRange	20	fullRB	Q16		13.00	Pass
TDD41	MidRange	20	OneRB_high	Q16		13.00	Pass
TDD41	MidRange	20	fullRB	Q16		13.00	Pass
TDD41	HighRange	20	OneRB_high	Q16		13.00	Pass
TDD41	HighRange	20	fullRB	Q16		13.00	Pass



FDD66	LowRange	20	OneRB_high	Q16	4.59	13.00	Pass
FDD66	LowRange	20	fullRB	Q16	5.28	13.00	Pass
FDD66	MidRange	20	OneRB_high	Q16	3.93	13.00	Pass
FDD66	MidRange	20	fullRB	Q16	8.38	13.00	Pass
FDD66	HighRange	20	OneRB_high	Q16	4.86	13.00	Pass
FDD66	HighRange	20	fullRB	Q16	5.46	13.00	Pass
FDD71	LowRange	20	OneRB_high	Q16	5.35	13.00	Pass
FDD71	LowRange	20	fullRB	Q16	5.90	13.00	Pass
FDD71	MidRange	20	OneRB_high	Q16	4.79	13.00	Pass
FDD71	MidRange	20	fullRB	Q16	5.73	13.00	Pass
FDD71	HighRange	20	OneRB_high	Q16	4.56	13.00	Pass
FDD71	HighRange	20	fullRB	Q16	5.72	13.00	Pass

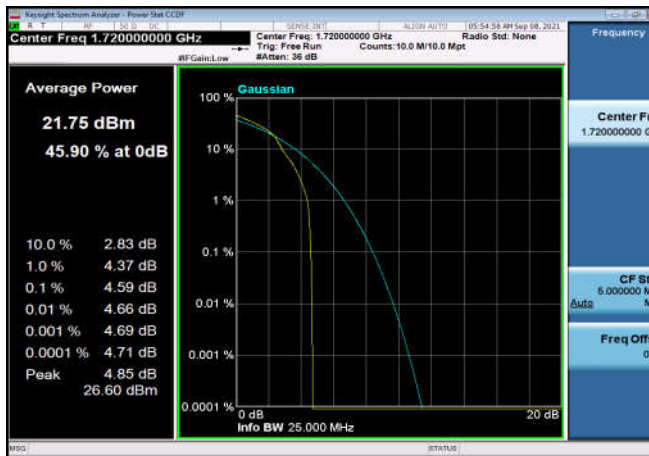
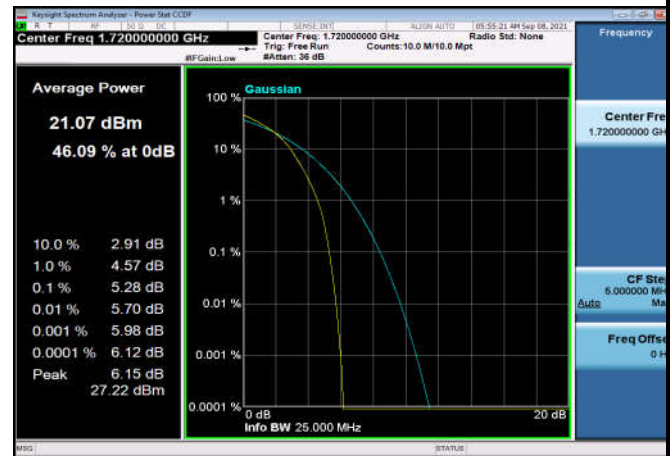
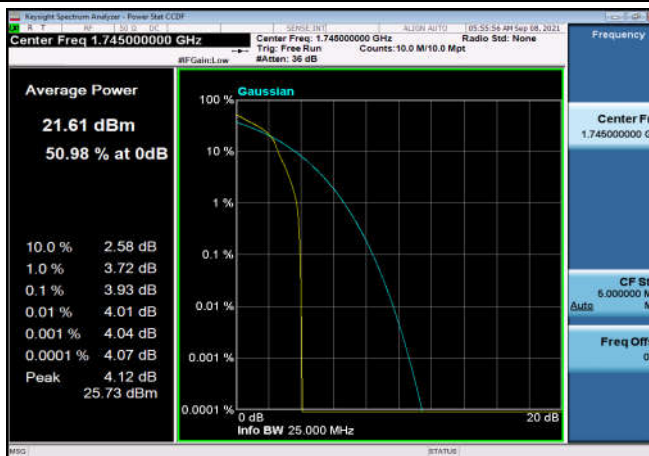
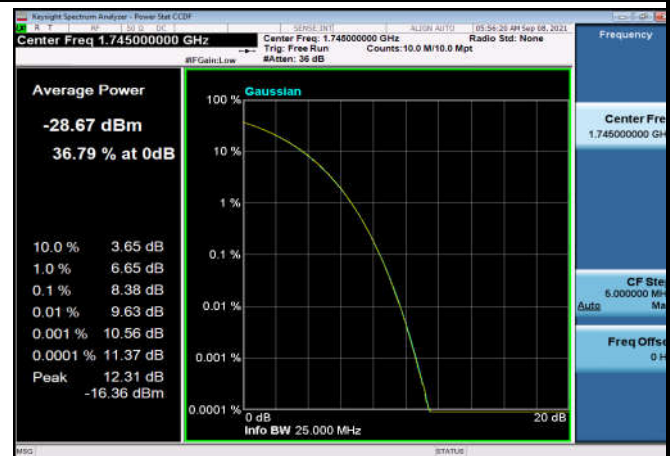
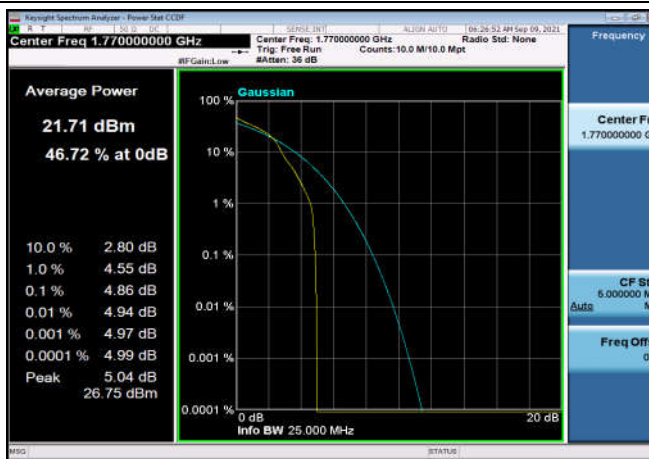
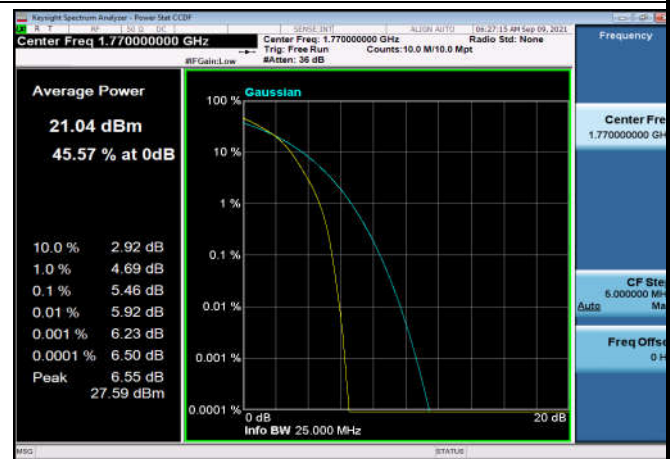
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_high_Q16FDD02_LowRange_20MHz_1860_fullRB
_Q16FDD02_MidRange_20MHz_1880_OneRB
_high_Q16FDD02_MidRange_20MHz_1880_fullRB
_Q16FDD02_HighRange_20MHz_1900_OneRB
_high_Q16FDD02_HighRange_20MHz_1900_fullRB
_Q16

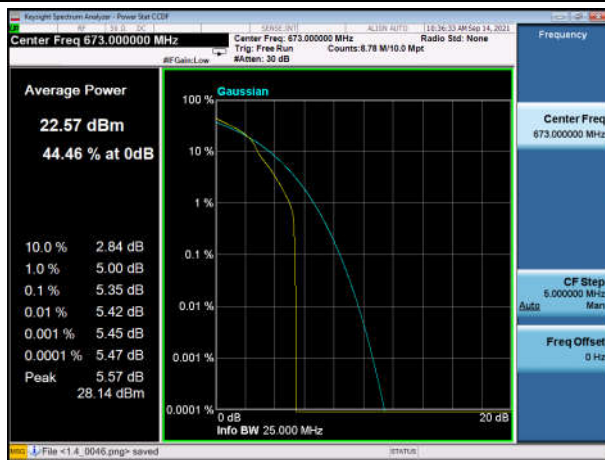
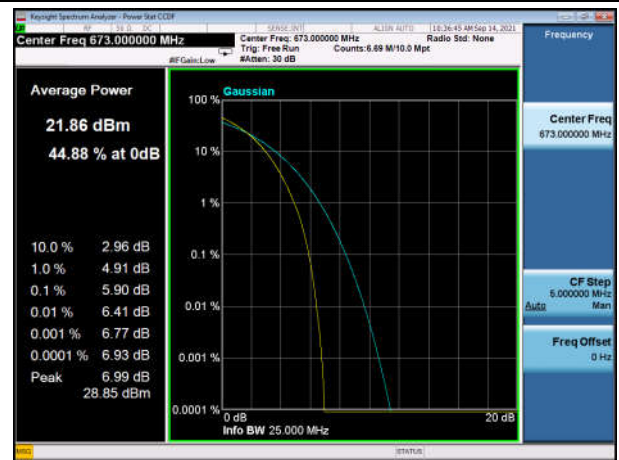
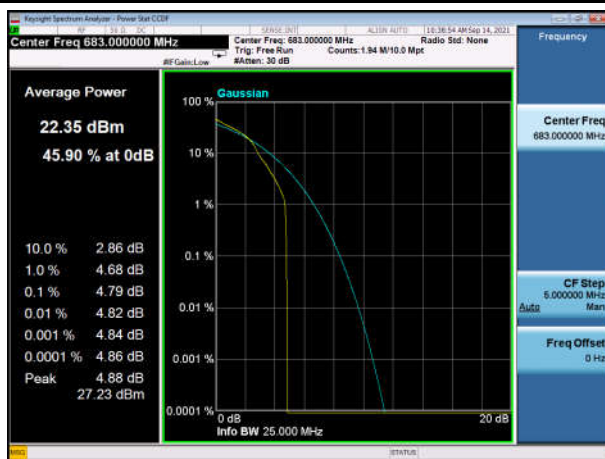
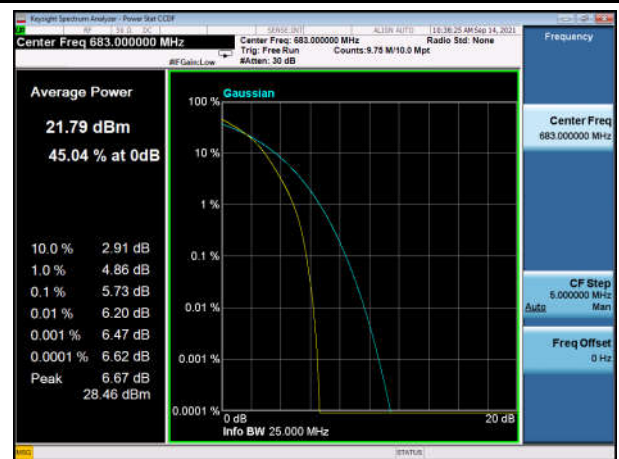
FDD04_LowRange_20MHz_1720_OneRB
_high_Q16FDD04_LowRange_20MHz_1720_fullRB
_Q16FDD04_MidRange_20MHz_1732.5_OneRB
_high_Q16FDD04_MidRange_20MHz_1732.5_fullRB
_Q16FDD04_HighRange_20MHz_1745_OneRB
_high_Q16FDD04_HighRange_20MHz_1745_fullRB
_Q16

FDD07_LowRange_20MHz_2510_OneRB
_high_Q16

FDD07_LowRange_20MHz_2510_fullRB
_Q16

FDD07_MidRange_20MHz_2535_OneRB
_high_Q16

FDD07_MidRange_20MHz_2535_fullRB
_Q16

FDD07_HighRange_20MHz_2560_OneRB
_high_Q16

FDD07_HighRange_20MHz_2560_fullRB
_Q16


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FDD66_LowRange_20MHz_1720_OneRB
_high_Q16

FDD66_LowRange_20MHz_1720_fullRB
_Q16

FDD66_MidRange_20MHz_1745_OneRB
_high_Q16

FDD66_MidRange_20MHz_1745_fullRB
_Q16

FDD66_HighRange_20MHz_1770_OneRB
_high_Q16

FDD66_HighRange_20MHz_1770_fullRB
_Q16


FDD71_LowRange_20MHz_673_OneRB
_high_Q16FDD71_LowRange_20MHz_673_fullIRB
_Q16FDD71_MidRange_20MHz_683_OneRB
_high_Q16FDD71_MidRange_20MHz_683_fullIRB
_Q16FDD71_HighRange_20MHz_688_OneRB
_high_Q16FDD71_HighRange_20MHz_688_fullIRB
_Q16

**99% Occupied Bandwidth****Test Result and Data**

Occupied Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	Occupied Bandwidth(99%) (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.091
FDD02	MidRange	1.4	1880	Q16	1.087
FDD02	MidRange	3	1880	QPSK	2.677
FDD02	MidRange	3	1880	Q16	2.678
FDD02	MidRange	5	1880	QPSK	4.487
FDD02	MidRange	5	1880	Q16	4.487
FDD02	MidRange	10	1880	QPSK	8.912
FDD02	MidRange	10	1880	Q16	8.905
FDD02	MidRange	15	1880	QPSK	13.415
FDD02	MidRange	15	1880	Q16	13.416
FDD02	MidRange	20	1880	QPSK	17.821
FDD02	MidRange	20	1880	Q16	17.823
FDD04	MidRange	1.4	1732.5	QPSK	1.087
FDD04	MidRange	1.4	1732.5	Q16	1.085
FDD04	MidRange	3	1732.5	QPSK	2.679
FDD04	MidRange	3	1732.5	Q16	2.677
FDD04	MidRange	5	1732.5	QPSK	4.488
FDD04	MidRange	5	1732.5	Q16	4.486
FDD04	MidRange	10	1732.5	QPSK	8.911
FDD04	MidRange	10	1732.5	Q16	8.908
FDD04	MidRange	15	1732.5	QPSK	13.414
FDD04	MidRange	15	1732.5	Q16	13.417
FDD04	MidRange	20	1732.5	QPSK	17.831
FDD04	MidRange	20	1732.5	Q16	17.832
FDD05	MidRange	1.4	836.5	QPSK	1.091
FDD05	MidRange	1.4	836.5	Q16	1.087



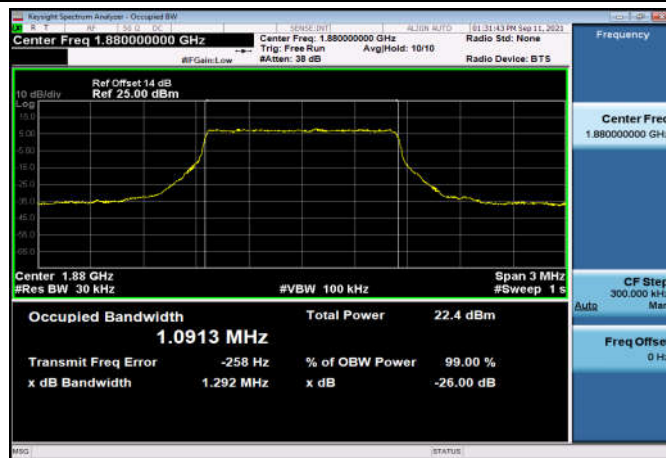
FDD05	MidRange	3	836.5	QPSK	2.678
FDD05	MidRange	3	836.5	Q16	2.676
FDD05	MidRange	5	836.5	QPSK	4.488
FDD05	MidRange	5	836.5	Q16	4.484
FDD05	MidRange	10	836.5	QPSK	8.907
FDD05	MidRange	10	836.5	Q16	8.896
FDD07	MidRange	5	2535	QPSK	4.488
FDD07	MidRange	5	2535	Q16	4.485
FDD07	MidRange	10	2535	QPSK	8.912
FDD07	MidRange	10	2535	Q16	8.905
FDD07	MidRange	15	2535	QPSK	13.426
FDD07	MidRange	15	2535	Q16	13.427
FDD07	MidRange	20	2535	QPSK	17.845
FDD07	MidRange	20	2535	Q16	17.841
FDD12	MidRange	1.4	707.5	QPSK	1.09
FDD12	MidRange	1.4	707.5	Q16	1.086
FDD12	MidRange	3	707.5	QPSK	2.678
FDD12	MidRange	3	707.5	Q16	2.676
FDD12	MidRange	5	707.5	QPSK	4.485
FDD12	MidRange	5	707.5	Q16	4.482
FDD12	MidRange	10	707.5	QPSK	8.899
FDD12	MidRange	10	707.5	Q16	8.898
FDD17	MidRange	5	710	QPSK	4.481
FDD17	MidRange	5	710	Q16	4.485
FDD17	MidRange	10	710	QPSK	8.91
FDD17	MidRange	10	710	Q16	8.9
TDD41	MidRange	5	2593	QPSK	4.476
TDD41	MidRange	5	2593	Q16	4.485
TDD41	MidRange	10	2593	QPSK	8.9
TDD41	MidRange	10	2593	Q16	8.91
TDD41	MidRange	15	2593	QPSK	13.425
TDD41	MidRange	15	2593	Q16	13.414



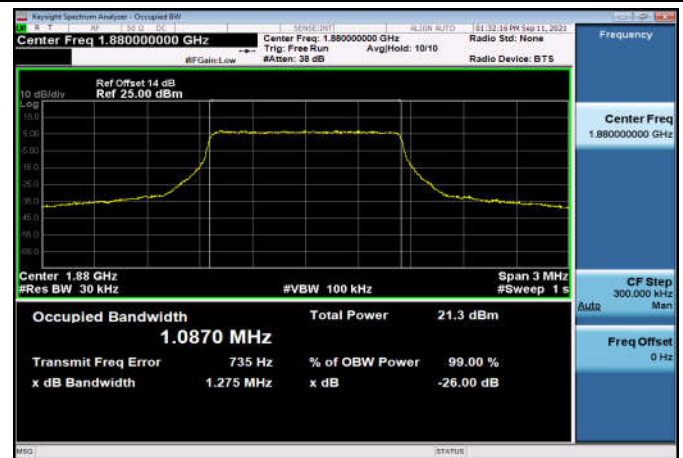
TDD41	MidRange	20	2593	QPSK	17.832
TDD41	MidRange	20	2593	Q16	17.83
FDD66	MidRange	1.4	1745	QPSK	1.087
FDD66	MidRange	1.4	1745	Q16	1.085
FDD66	MidRange	3	1745	QPSK	2.679
FDD66	MidRange	3	1745	Q16	2.677
FDD66	MidRange	5	1745	QPSK	4.491
FDD66	MidRange	5	1745	Q16	4.487
FDD66	MidRange	10	1745	QPSK	8.918
FDD66	MidRange	10	1745	Q16	8.908
FDD66	MidRange	15	1745	QPSK	13.424
FDD66	MidRange	15	1745	Q16	13.423
FDD66	MidRange	20	1745	QPSK	17.855
FDD66	MidRange	20	1745	Q16	17.852
FDD71	MidRange	5	680.5	QPSK	4.50
FDD71	MidRange	5	680.5	Q16	4.52
FDD71	MidRange	10	680.5	QPSK	8.93
FDD71	MidRange	10	680.5	Q16	8.93
FDD71	MidRange	15	680.5	QPSK	13.5
FDD71	MidRange	15	680.5	Q16	13.5
FDD71	MidRange	20	683	QPSK	17.8
FDD71	MidRange	20	683	Q16	17.9



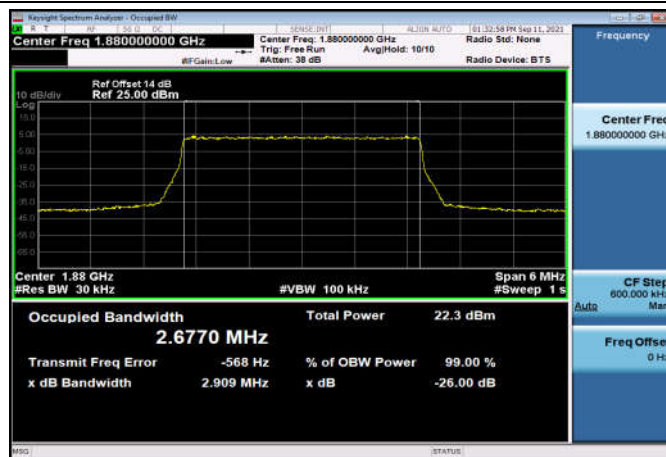
FDD02_MidRange_1.4_1880_QPSK



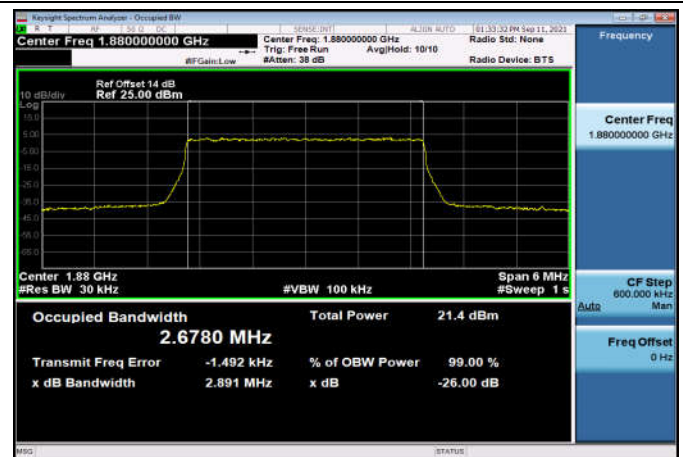
FDD02_MidRange_1.4_1880_Q16



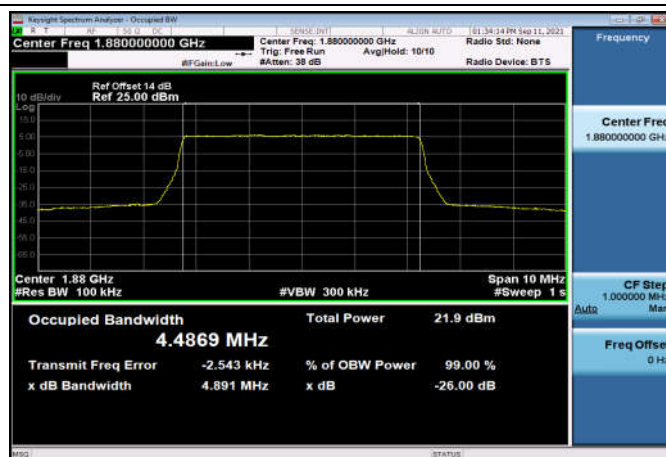
FDD02_MidRange_3_1880_QPSK



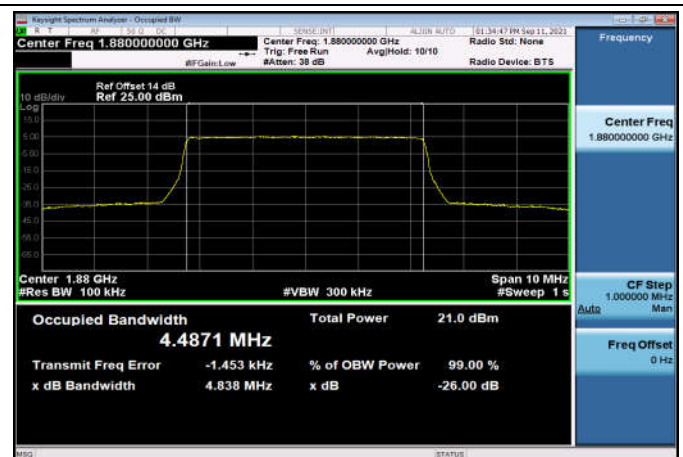
FDD02_MidRange_3_1880_Q16



FDD02_MidRange_5_1880_QPSK

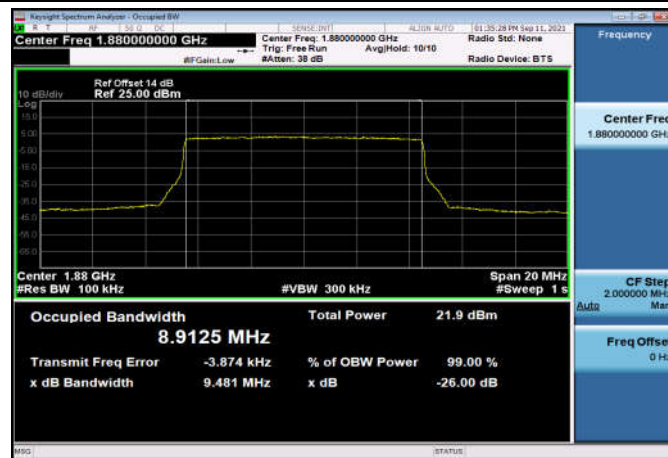


FDD02_MidRange_5_1880_Q16

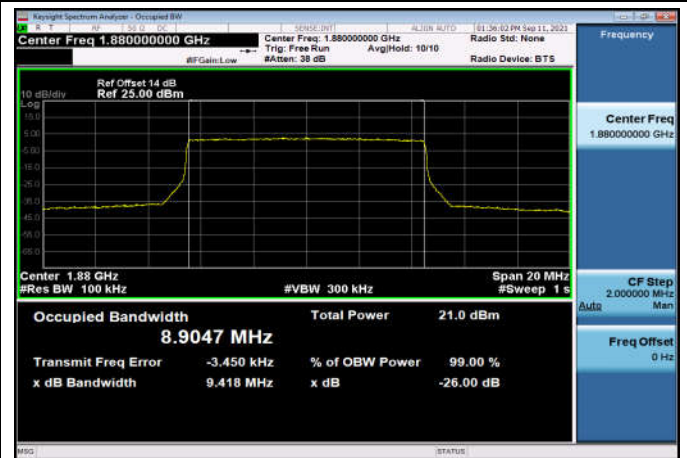




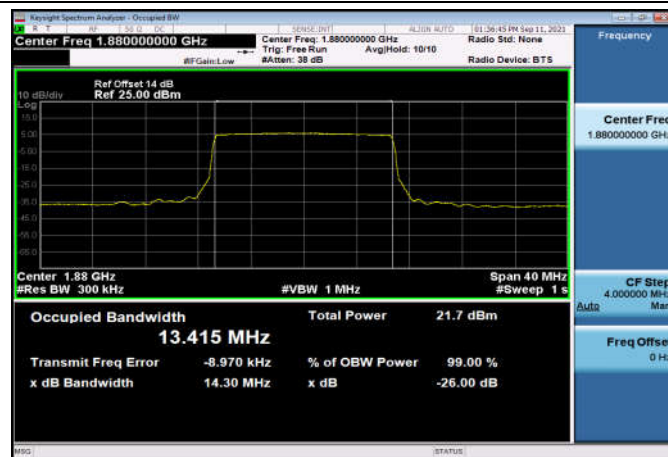
FDD02_MidRange_10_1880_QPSK



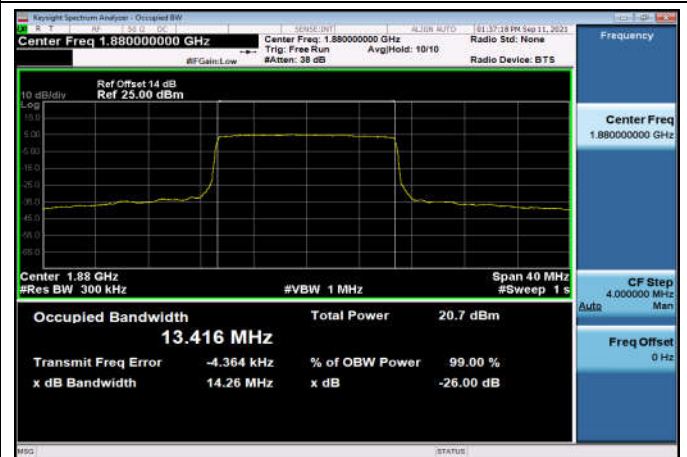
FDD02_MidRange_10_1880_Q16



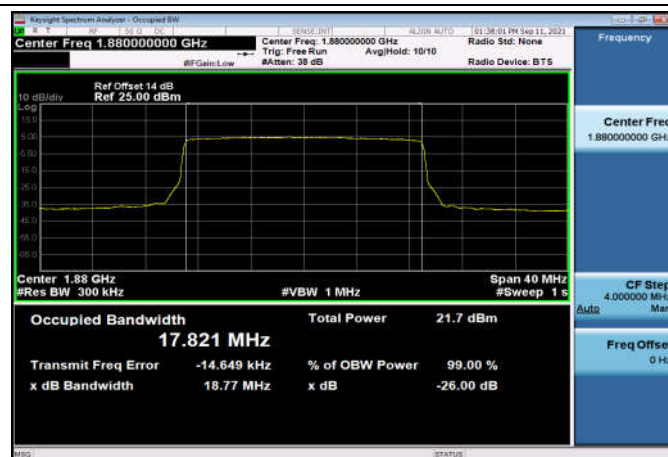
FDD02_MidRange_15_1880_QPSK



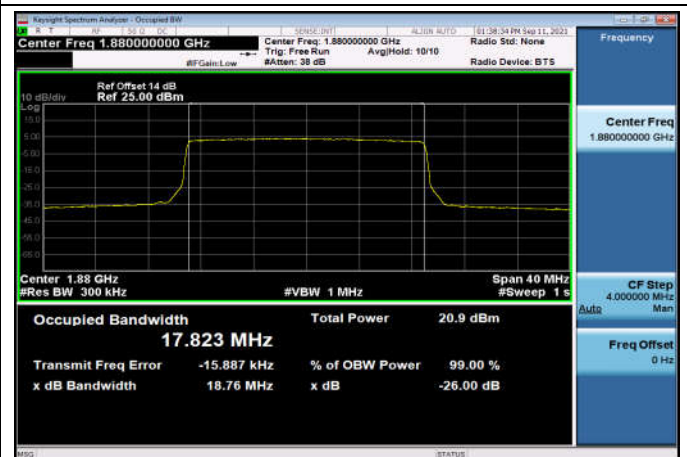
FDD02_MidRange_15_1880_Q16



FDD02_MidRange_20_1880_QPSK

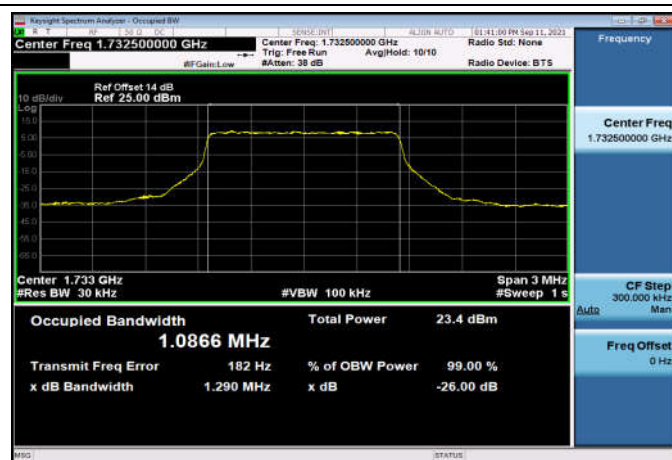


FDD02_MidRange_20_1880_Q16

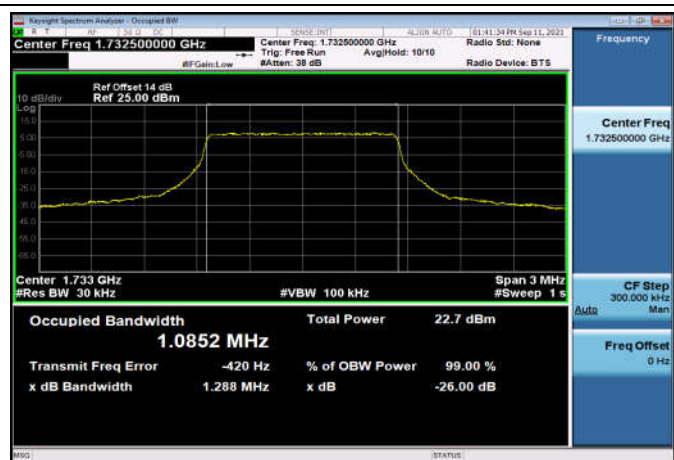




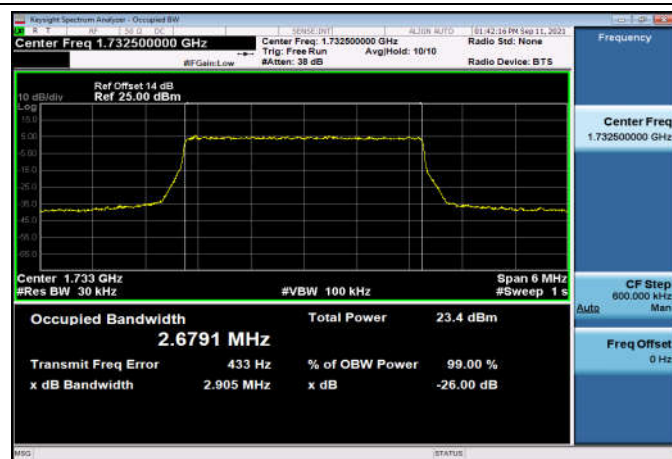
FDD04_MidRange_1.4_1732.5_QPSK



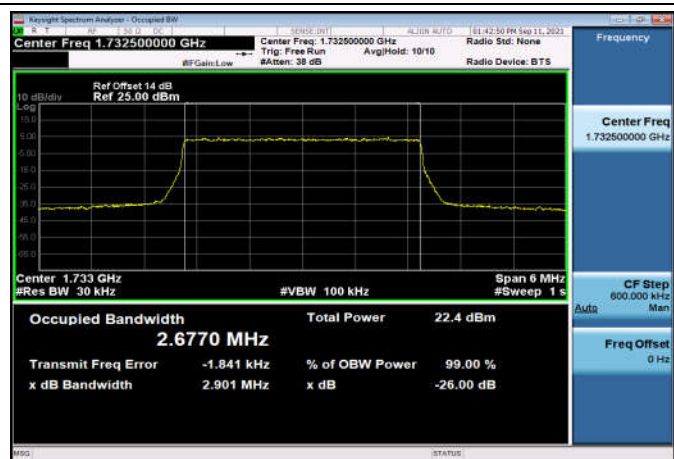
FDD04_MidRange_1.4_1732.5_Q16



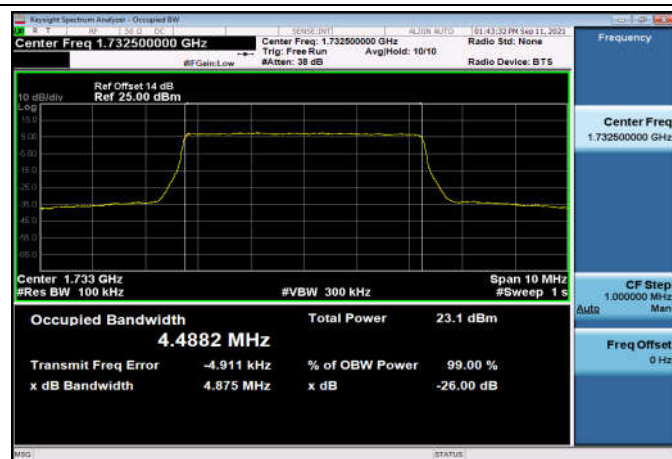
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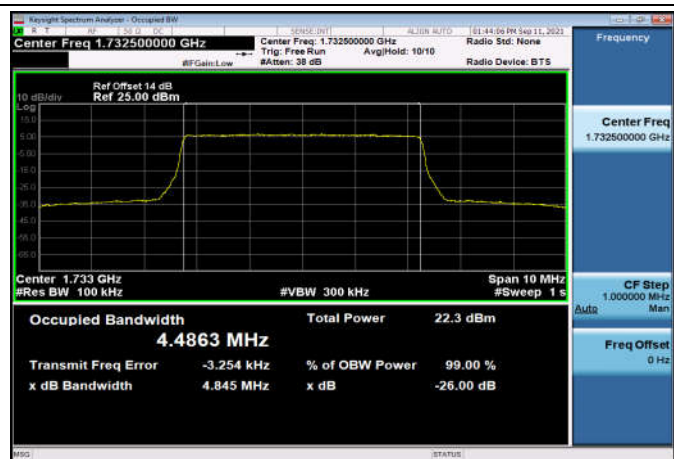
FDD04_MidRange_3_1732.5_Q16



FDD04_MidRange_5_1732.5_QPSK

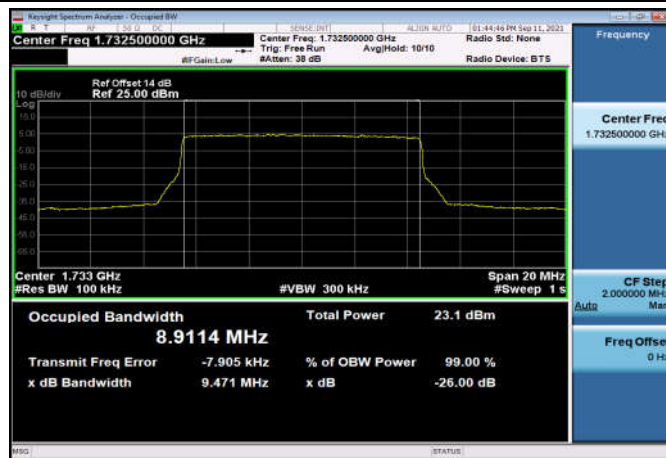


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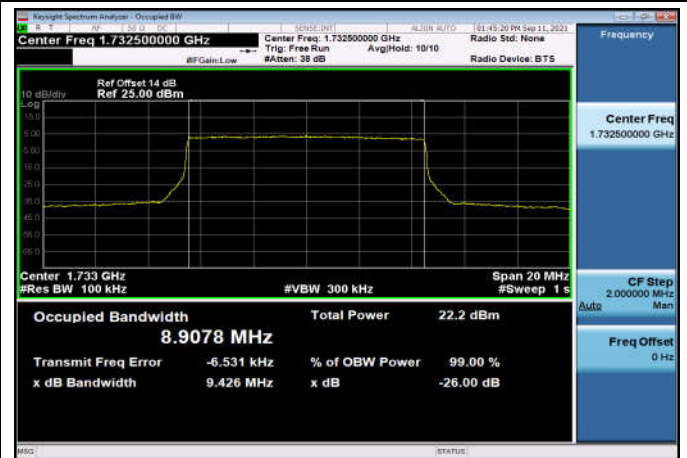




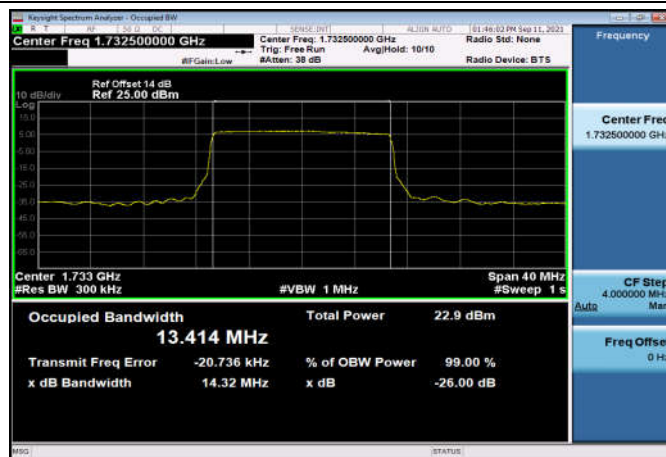
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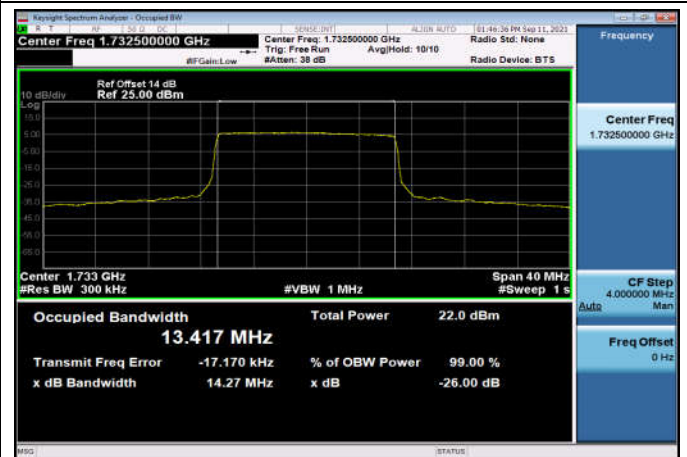
FDD04_MidRange_10_1732.5_Q16



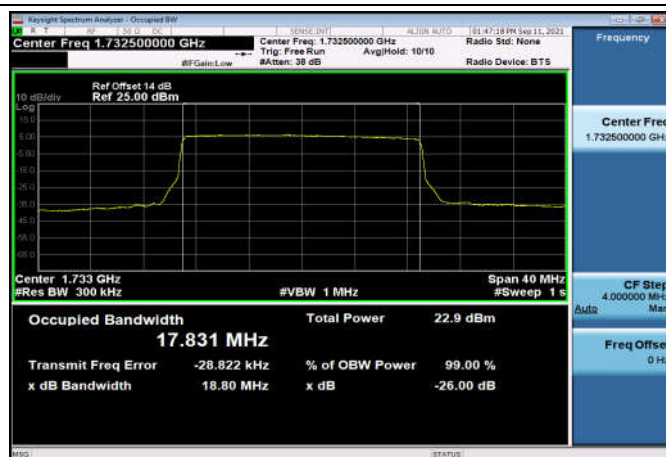
FDD04_MidRange_15_1732.5_QPSK



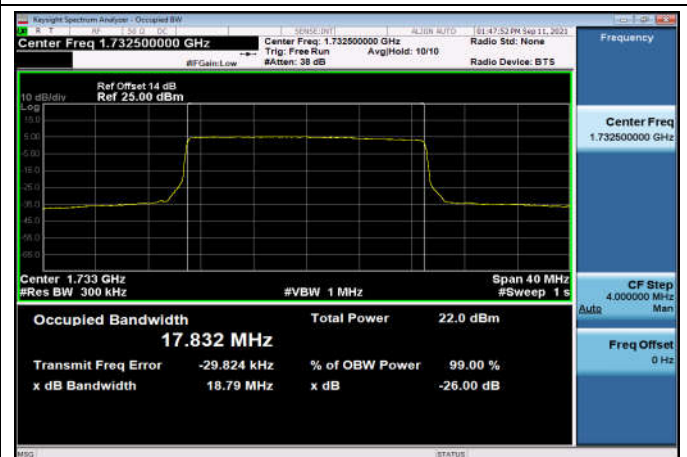
FDD04_MidRange_15_1732.5_Q16



FDD04_MidRange_20_1732.5_QPSK

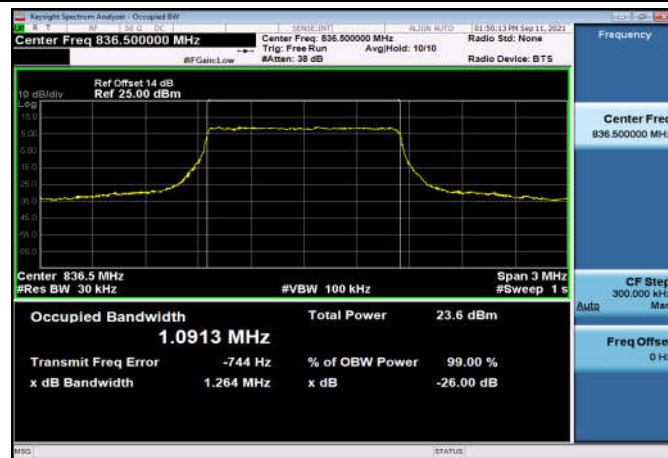


FDD04_MidRange_20_1732.5_Q16

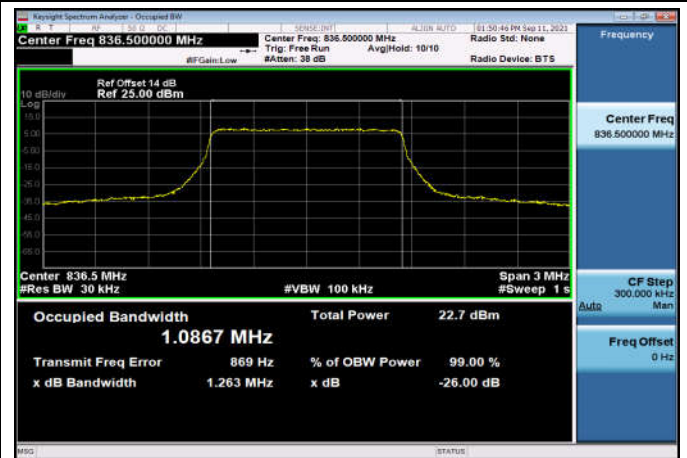




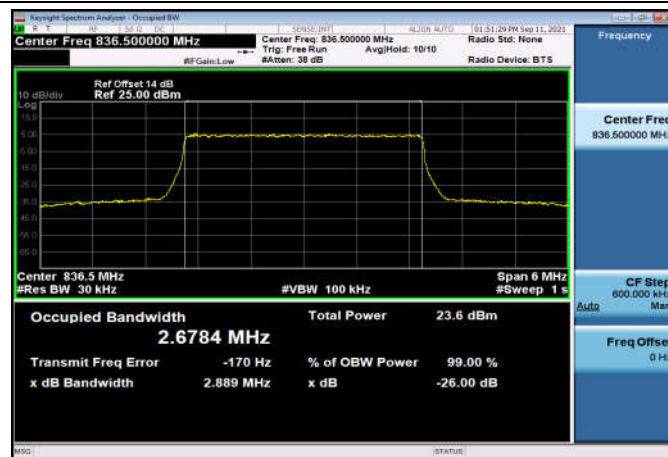
FDD05_MidRange_1.4_836.5_QPSK



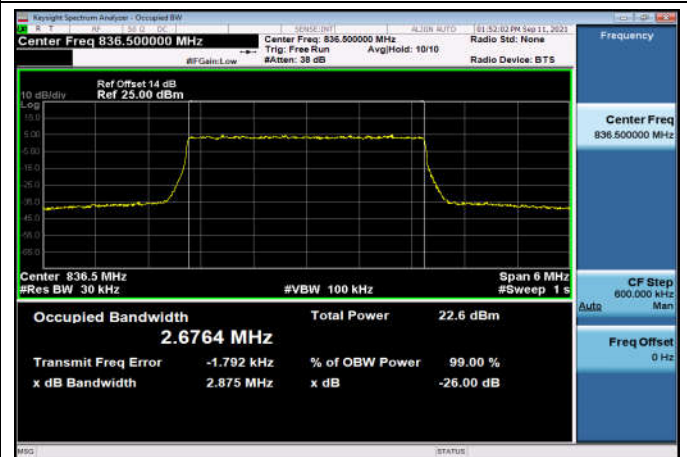
FDD05_MidRange_1.4_836.5_Q16



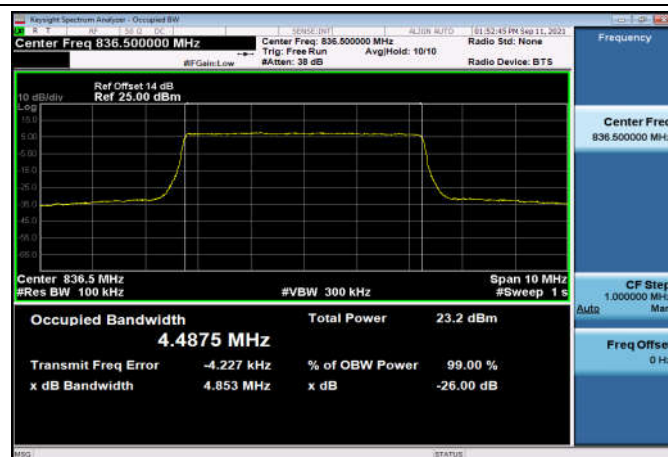
FDD05_MidRange_3_836.5_QPSK



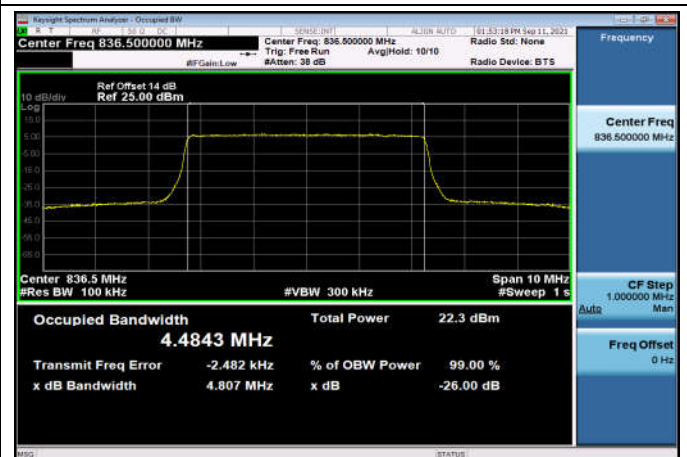
FDD05_MidRange_3_836.5_Q16



FDD05_MidRange_5_836.5_QPSK

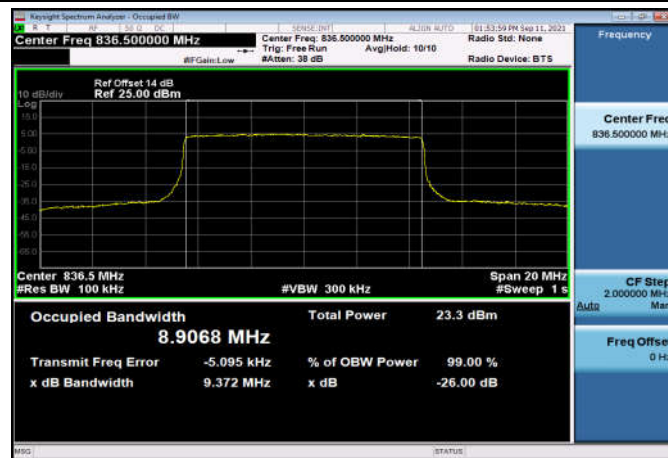


FDD05_MidRange_5_836.5_Q16

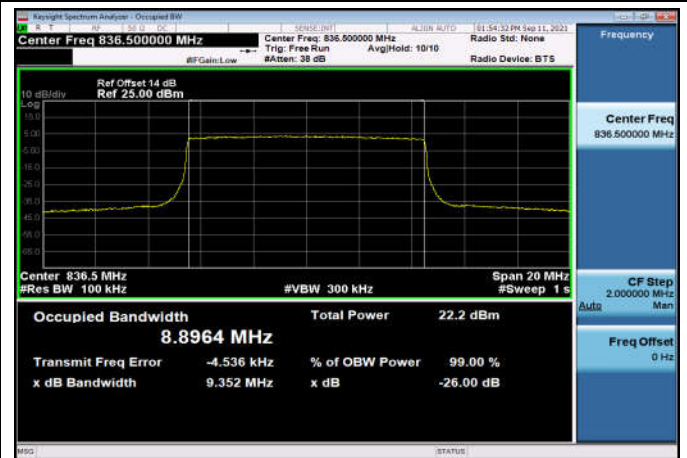




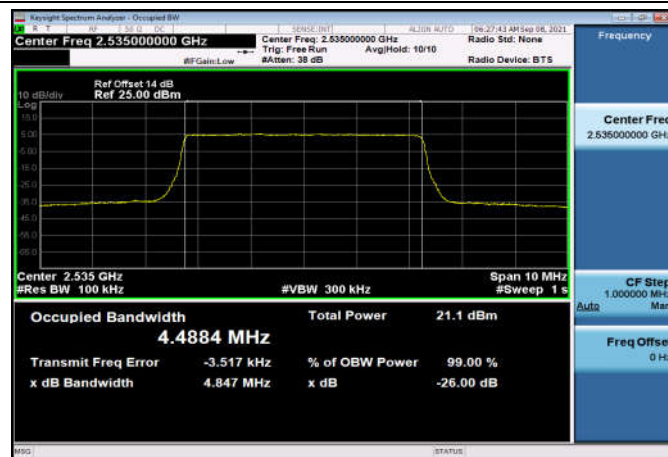
FDD05_MidRange_10_836.5_QPSK



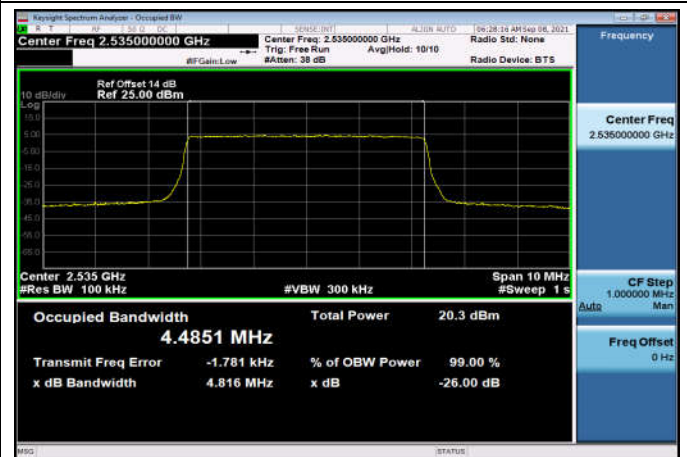
FDD05_MidRange_10_836.5_Q16



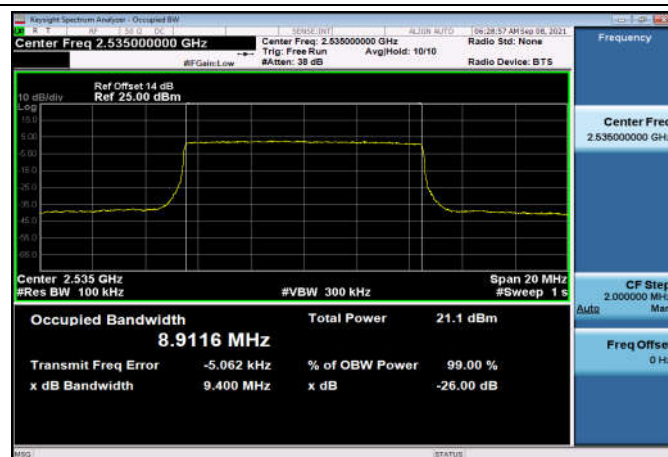
FDD07_MidRange_5_2535_QPSK



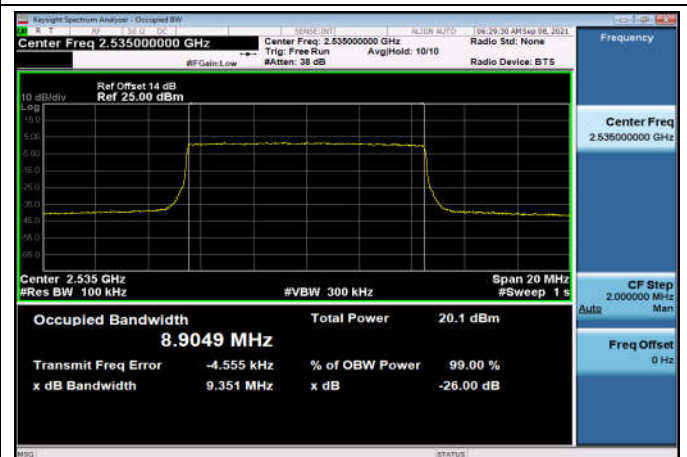
FDD07_MidRange_5_2535_Q16



FDD07_MidRange_10_2535_QPSK

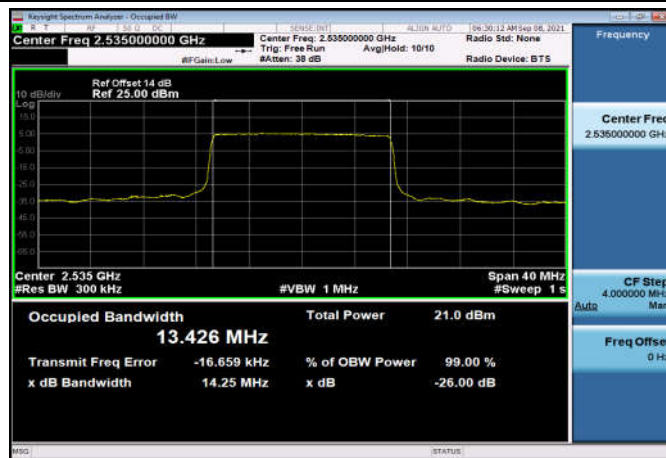


FDD07_MidRange_10_2535_Q16

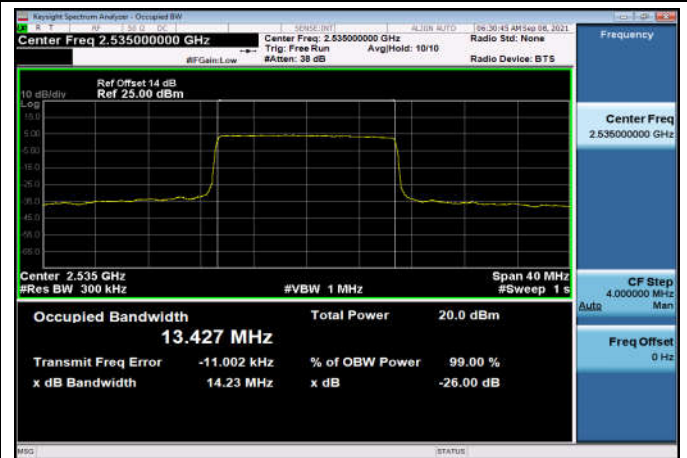




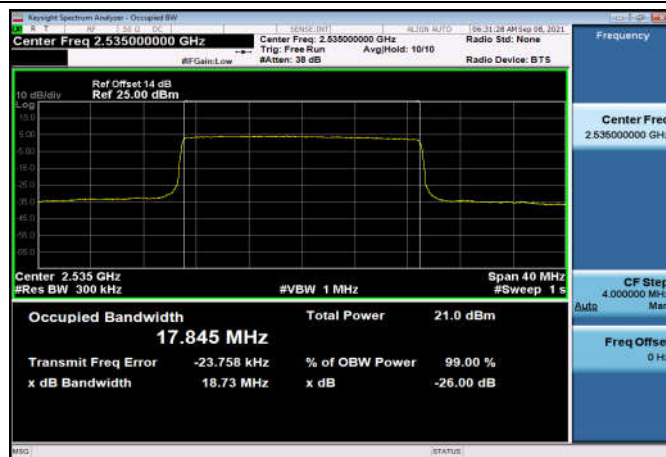
FDD07_MidRange_15_2535_QPSK



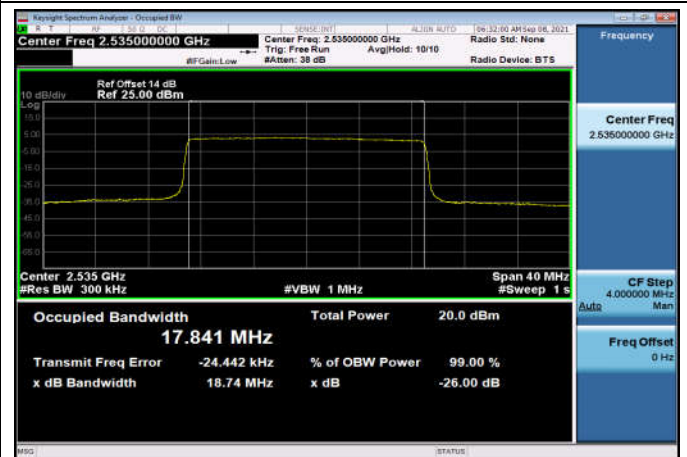
FDD07_MidRange_15_2535_Q16



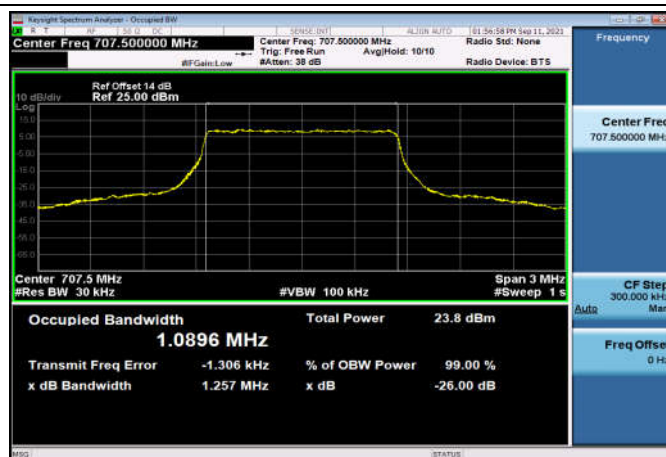
FDD07_MidRange_20_2535_QPSK



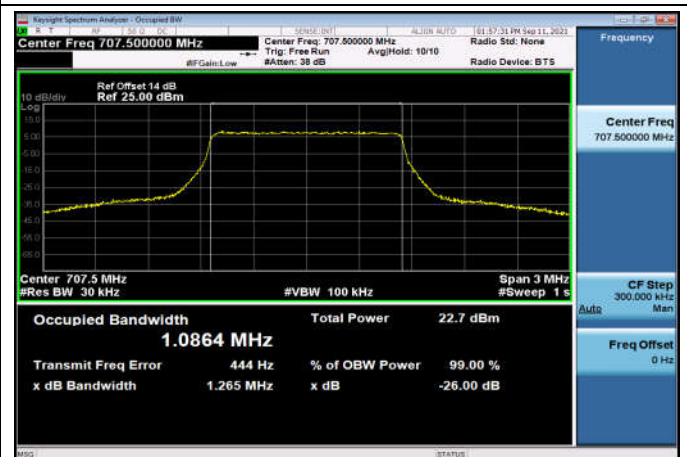
FDD07_MidRange_20_2535_Q16



FDD12_MidRange_1.4_707.5_QPSK

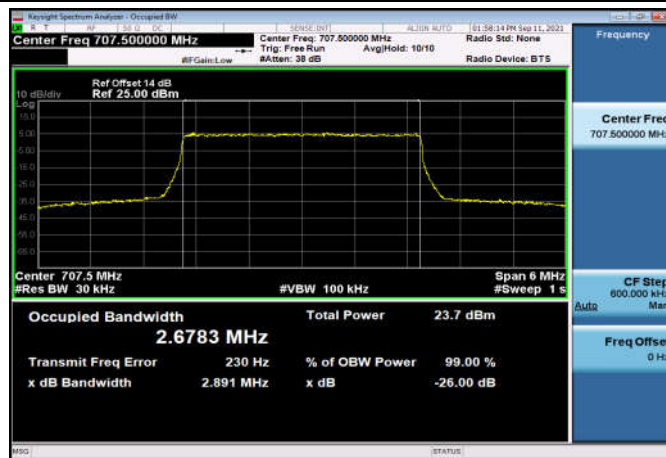


FDD12_MidRange_1.4_707.5_Q16

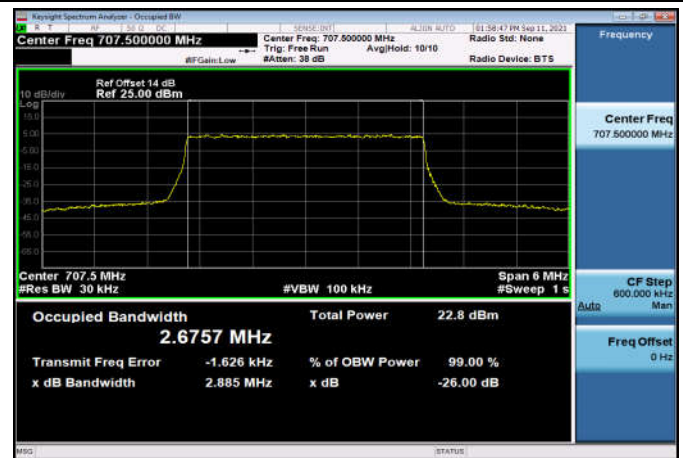




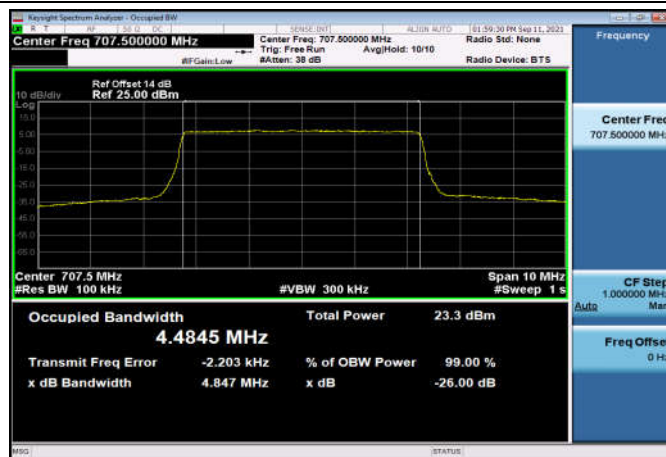
FDD12_MidRange_3_707.5_QPSK



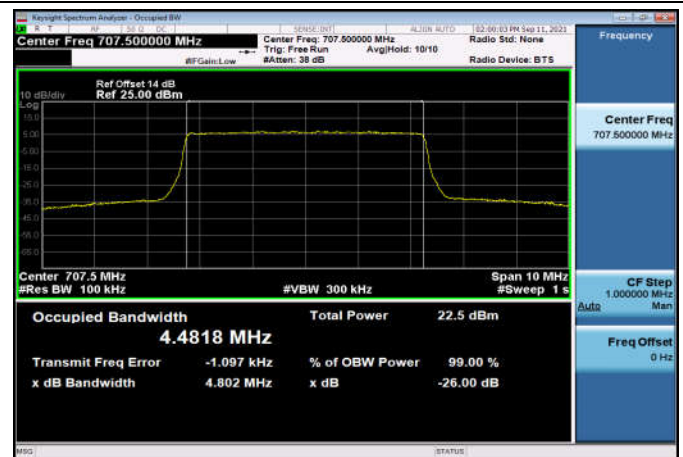
FDD12_MidRange_3_707.5_Q16



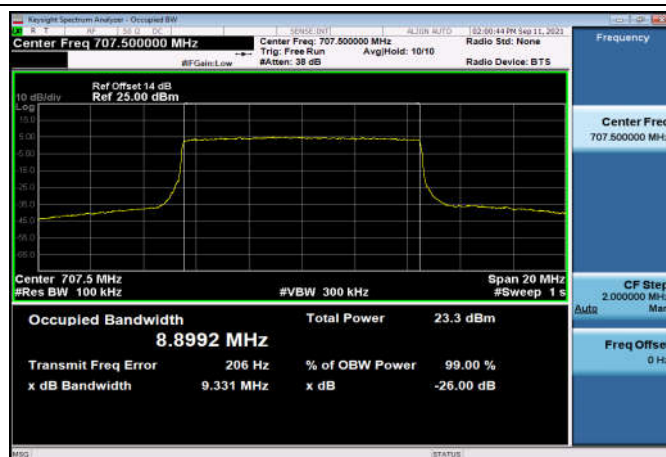
FDD12_MidRange_5_707.5_QPSK



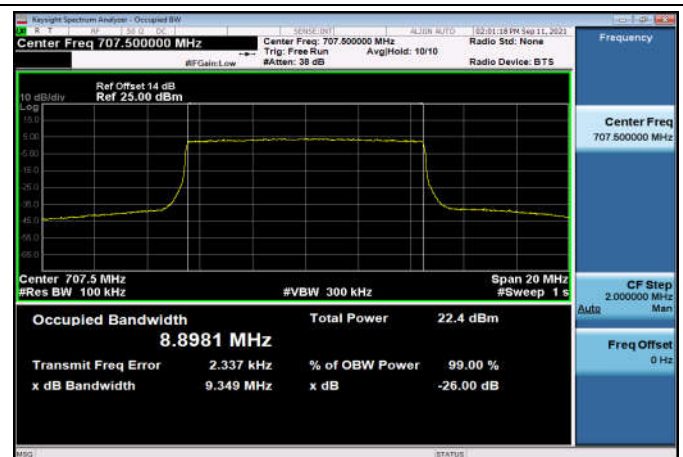
FDD12_MidRange_5_707.5_Q16



FDD12_MidRange_10_707.5_QPSK

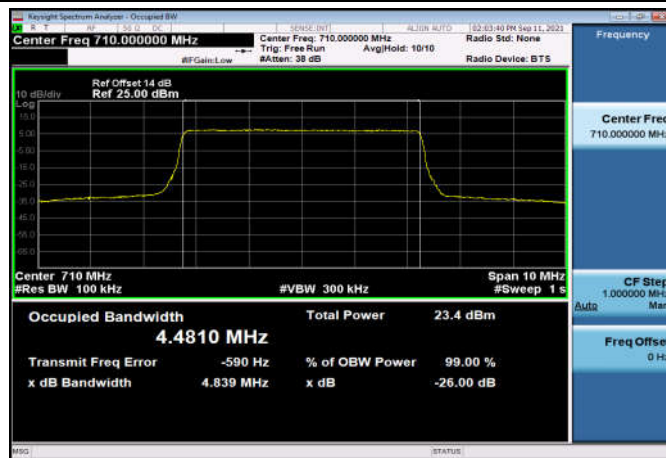


FDD12_MidRange_10_707.5_Q16

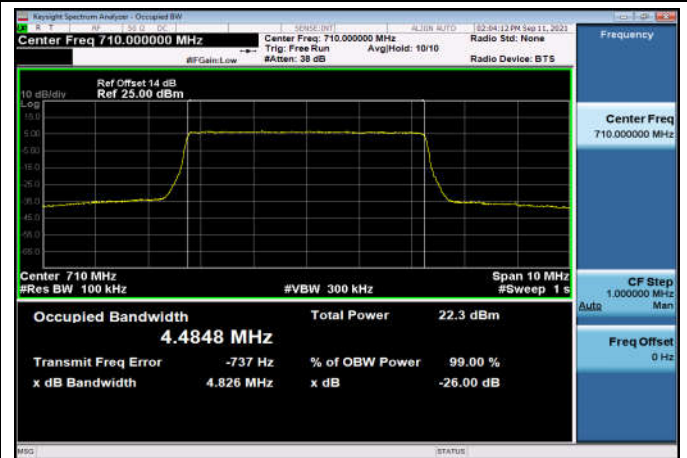




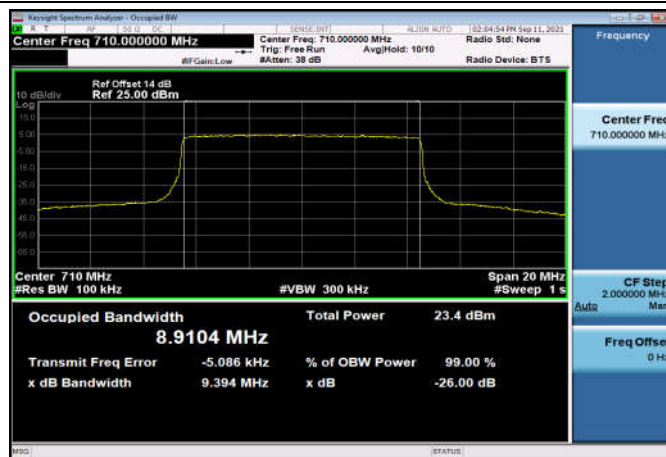
FDD17_MidRange_5_710_QPSK



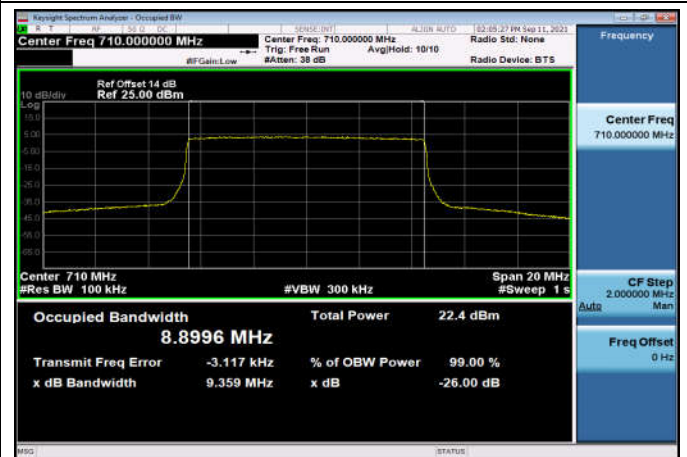
FDD17_MidRange_5_710_Q16



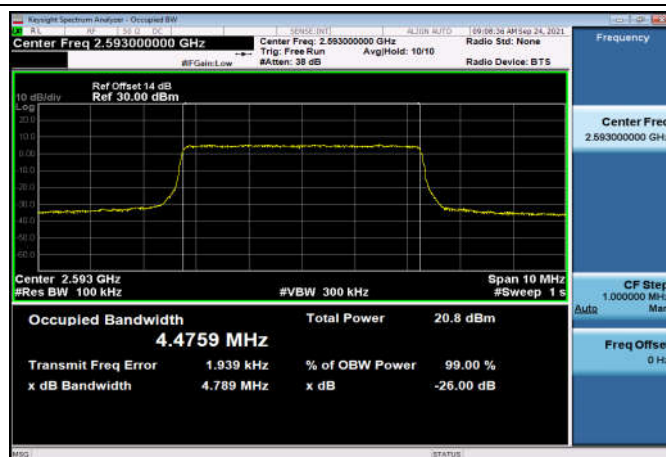
FDD17_MidRange_10_710_QPSK



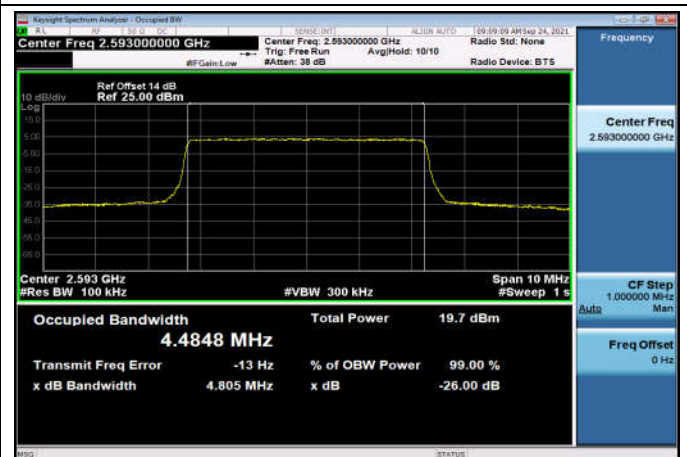
FDD17_MidRange_10_710_Q16



TDD41_MidRange_5_2593_QPSK

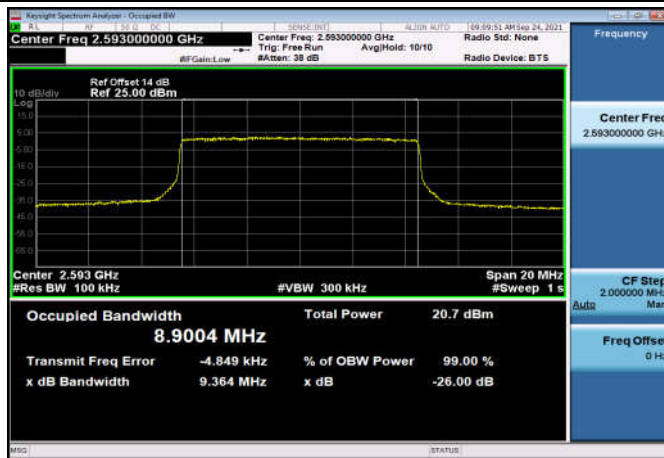


TDD41_MidRange_5_2593_Q16

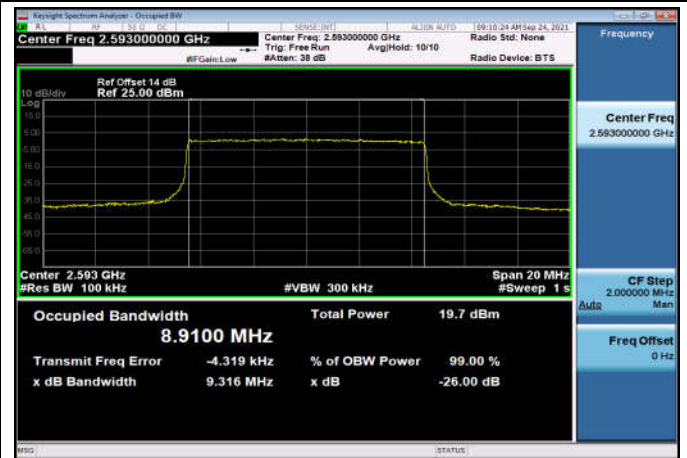




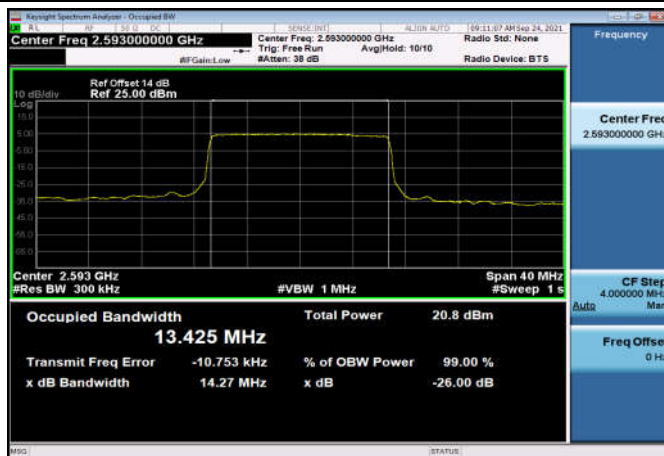
TDD41_MidRange_10_2593_QPSK



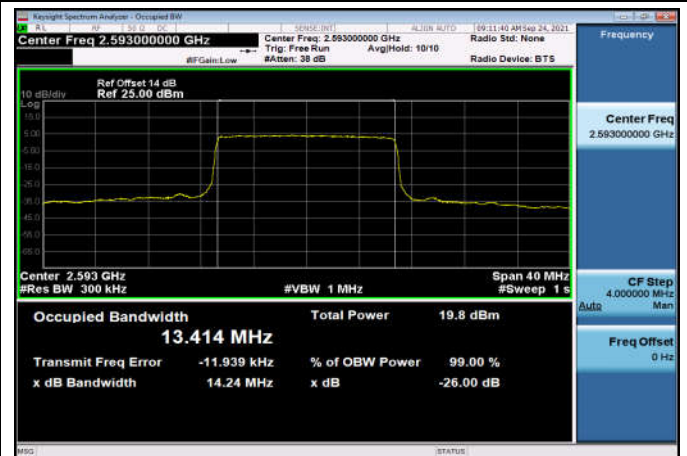
TDD41_MidRange_10_2593_Q16



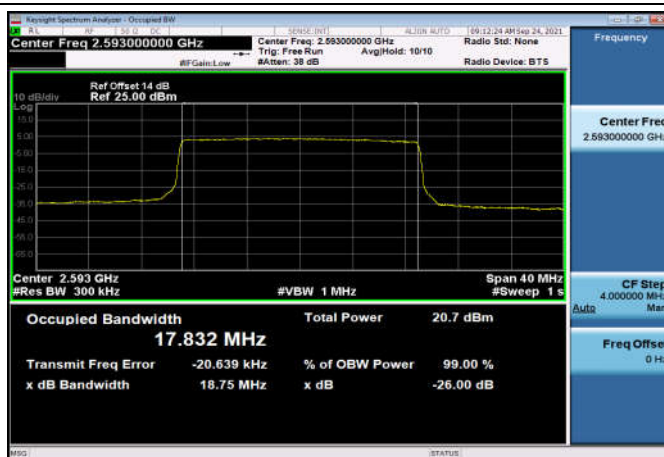
TDD41_MidRange_15_2593_QPSK



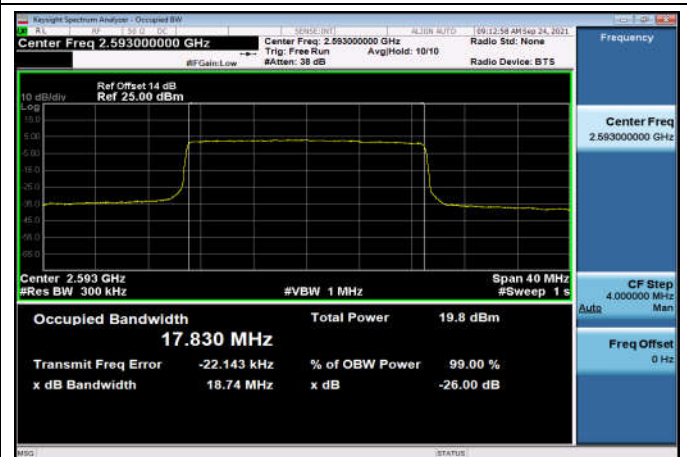
TDD41_MidRange_15_2593_Q16



TDD41_MidRange_20_2593_QPSK

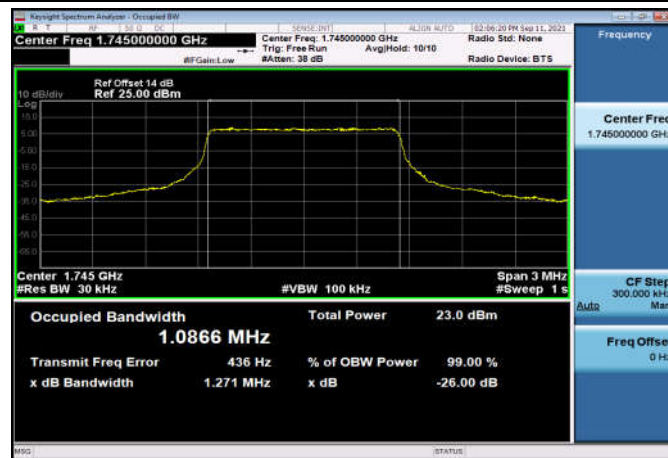


TDD41_MidRange_20_2593_Q16

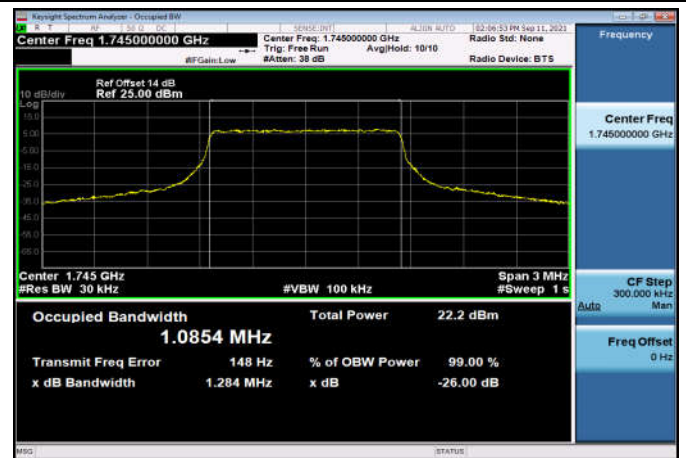




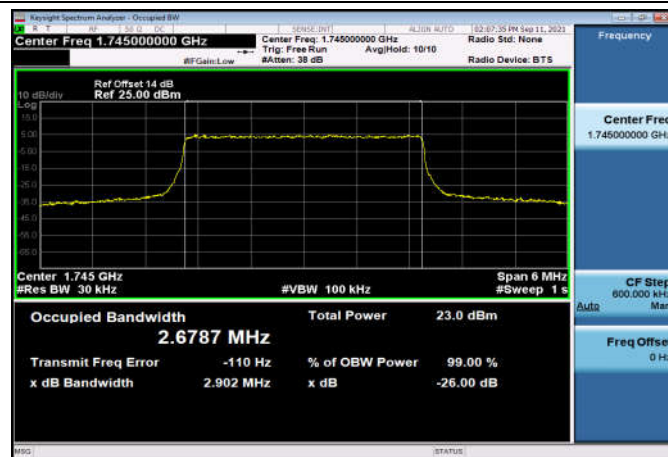
FDD66_MidRange_1.4_1745_QPSK



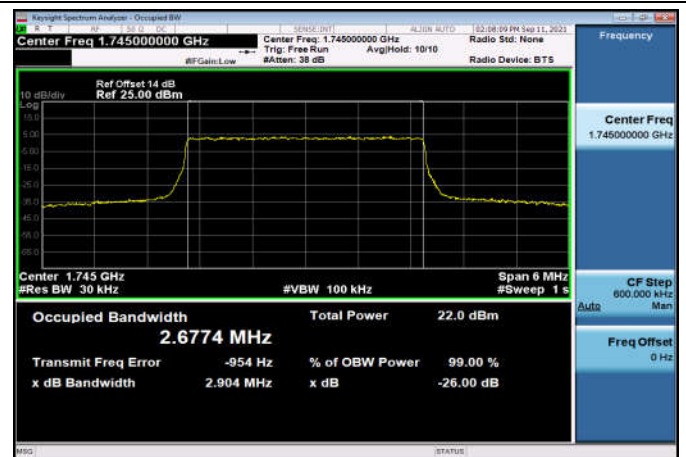
FDD66_MidRange_1.4_1745_Q16



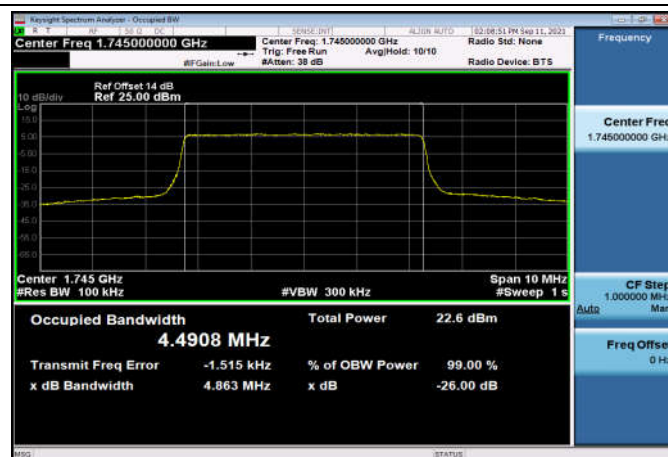
FDD66_MidRange_3_1745_QPSK



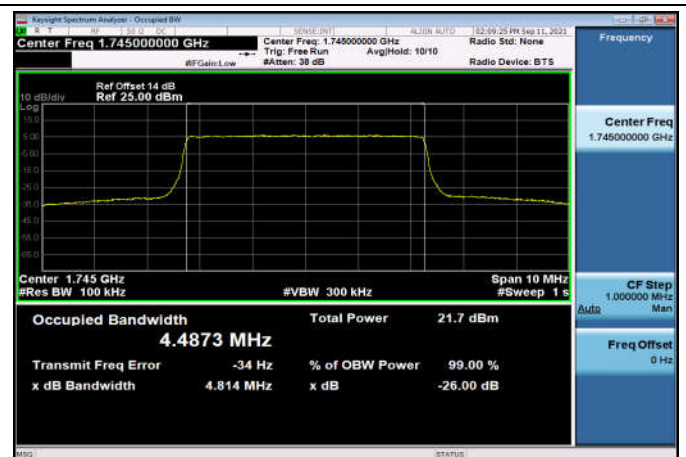
FDD66_MidRange_3_1745_Q16



FDD66_MidRange_5_1745_QPSK

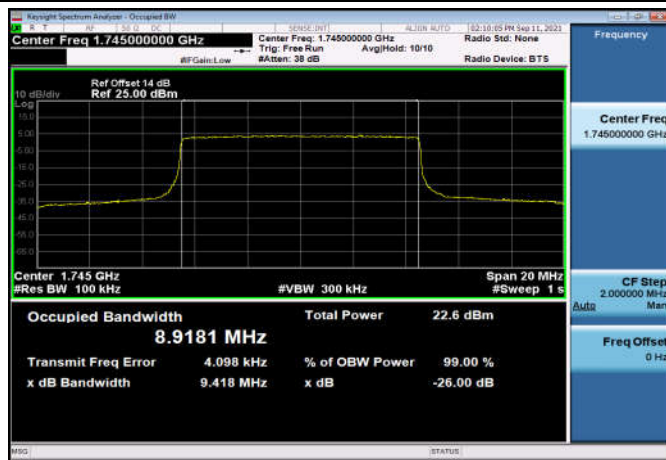


FDD66_MidRange_5_1745_Q16

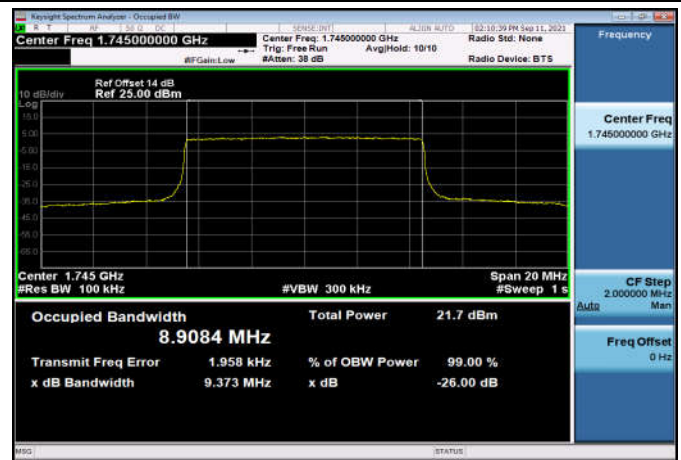




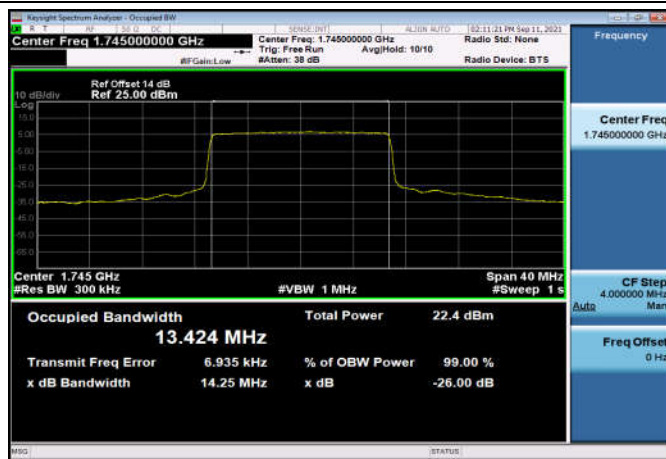
FDD66_MidRange_10_1745_QPSK



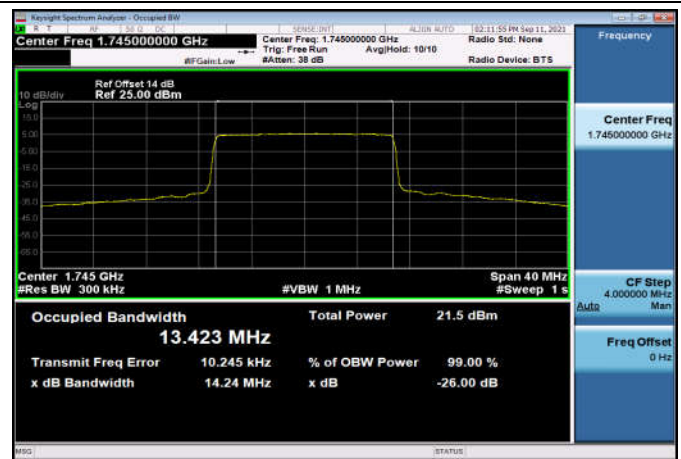
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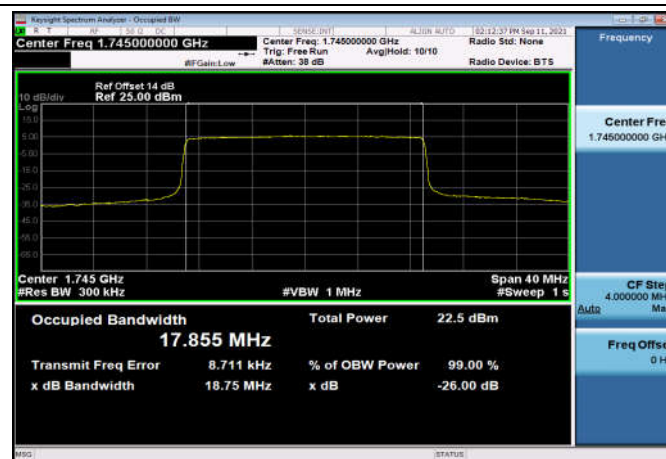
FDD66_MidRange_15_1745_QPSK



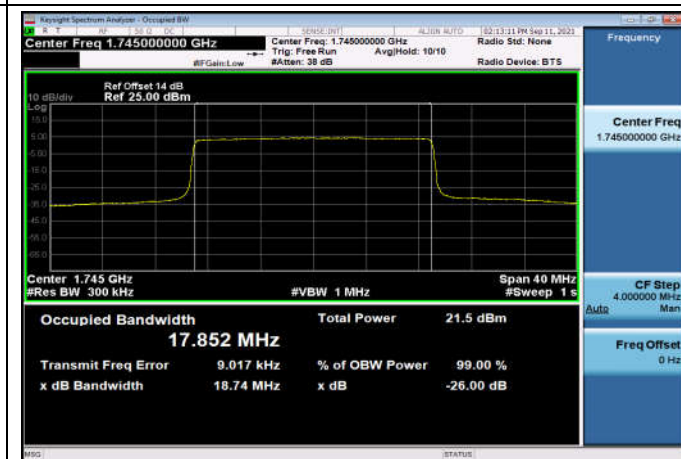
FDD66_MidRange_15_1745_Q16



FDD66_MidRange_20_1745_QPSK

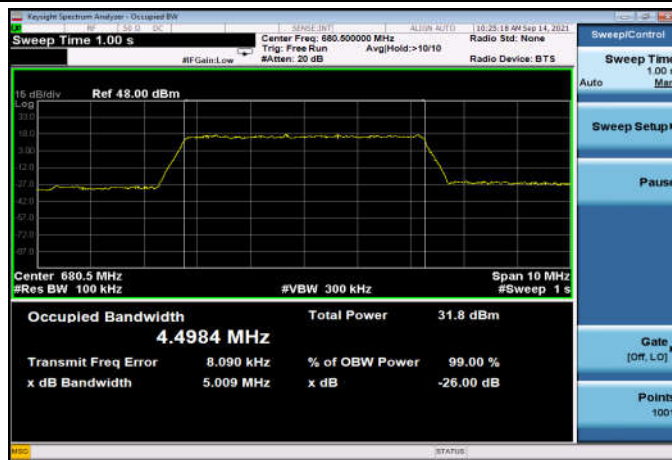


FDD66_MidRange_20_1745_Q16

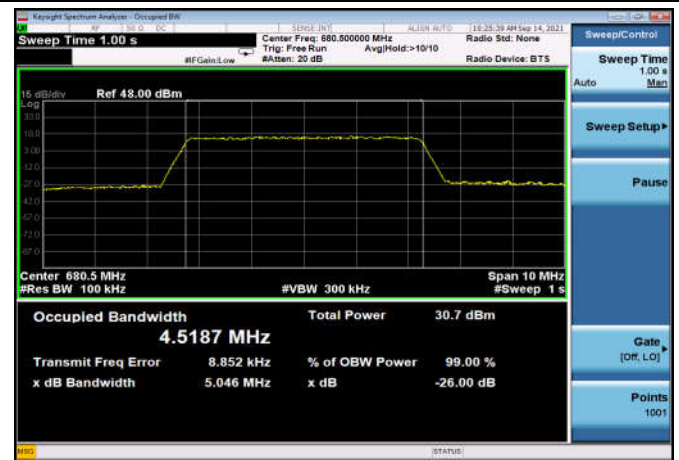




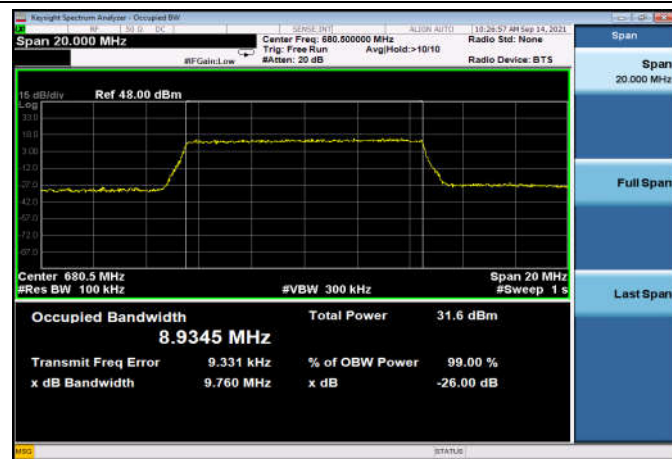
FDD71_MidRange_5_680.5_QPSK



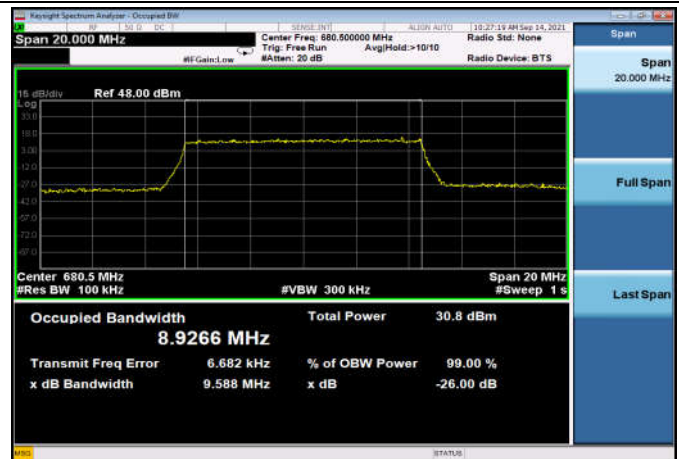
FDD71_MidRange_5_680.5_Q16



FDD71_MidRange_10_680.5_QPSK



FDD71_MidRange_10_680.5_Q16



FDD71_MidRange_15_680.5_QPSK



FDD71_MidRange_15_680.5_Q16

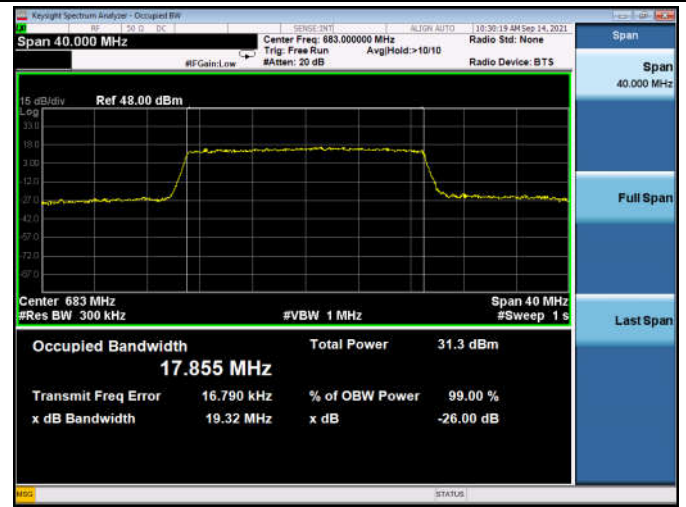




FDD71_MidRange_20_683_QPSK



FDD71_MidRange_20_683_Q16



**26dB Bandwidth****Test Result and Data**

Emission Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	EmissionBandwidth (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.30
FDD02	MidRange	1.4	1880	Q16	1.28
FDD02	MidRange	3	1880	QPSK	2.99
FDD02	MidRange	3	1880	Q16	2.98
FDD02	MidRange	5	1880	QPSK	4.86
FDD02	MidRange	5	1880	Q16	4.87
FDD02	MidRange	10	1880	QPSK	9.48
FDD02	MidRange	10	1880	Q16	9.42
FDD02	MidRange	15	1880	QPSK	14.3
FDD02	MidRange	15	1880	Q16	14.26
FDD02	MidRange	20	1880	QPSK	18.76
FDD02	MidRange	20	1880	Q16	18.77
FDD04	MidRange	1.4	1732.5	QPSK	1.30
FDD04	MidRange	1.4	1732.5	Q16	1.29
FDD04	MidRange	3	1732.5	QPSK	2.98
FDD04	MidRange	3	1732.5	Q16	2.98
FDD04	MidRange	5	1732.5	QPSK	4.89
FDD04	MidRange	5	1732.5	Q16	4.84
FDD04	MidRange	10	1732.5	QPSK	9.49
FDD04	MidRange	10	1732.5	Q16	9.43
FDD04	MidRange	15	1732.5	QPSK	14.31
FDD04	MidRange	15	1732.5	Q16	14.27
FDD04	MidRange	20	1732.5	QPSK	18.8
FDD04	MidRange	20	1732.5	Q16	18.78
FDD05	MidRange	1.4	836.5	QPSK	1.26
FDD05	MidRange	1.4	836.5	Q16	1.26
FDD05	MidRange	3	836.5	QPSK	2.97
FDD05	MidRange	3	836.5	Q16	2.96



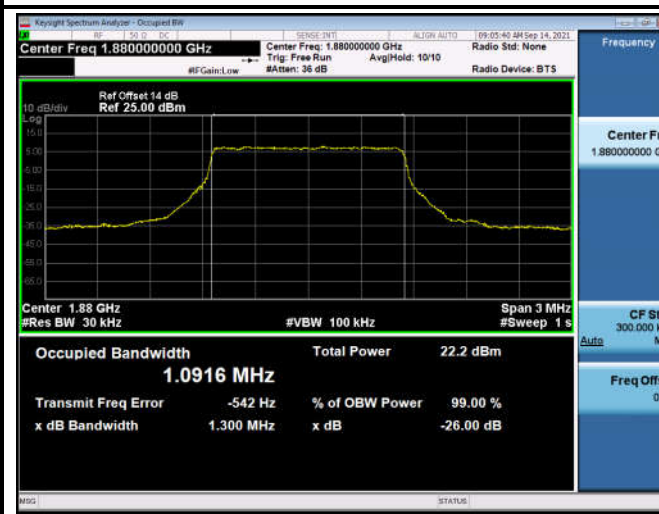
FDD05	MidRange	5	836.5	QPSK	4.83
FDD05	MidRange	5	836.5	Q16	4.81
FDD05	MidRange	10	836.5	QPSK	9.4
FDD05	MidRange	10	836.5	Q16	9.35
FDD07	MidRange	5	2535	QPSK	4.83
FDD07	MidRange	5	2535	Q16	4.84
FDD07	MidRange	10	2535	QPSK	9.4
FDD07	MidRange	10	2535	Q16	9.38
FDD07	MidRange	15	2535	QPSK	14.26
FDD07	MidRange	15	2535	Q16	14.24
FDD07	MidRange	20	2535	QPSK	18.74
FDD07	MidRange	20	2535	Q16	18.76
FDD12	MidRange	1.4	707.5	QPSK	1.26
FDD12	MidRange	1.4	707.5	Q16	1.26
FDD12	MidRange	3	707.5	QPSK	2.97
FDD12	MidRange	3	707.5	Q16	2.96
FDD12	MidRange	5	707.5	QPSK	4.85
FDD12	MidRange	5	707.5	Q16	4.81
FDD12	MidRange	10	707.5	QPSK	9.36
FDD12	MidRange	10	707.5	Q16	9.35
FDD17	MidRange	5	710	QPSK	4.83
FDD17	MidRange	5	710	Q16	4.84
FDD17	MidRange	10	710	QPSK	9.39
FDD17	MidRange	10	710	Q16	9.35
TDD41	MidRange	5	2593	QPSK	4.8
TDD41	MidRange	5	2593	Q16	4.81
TDD41	MidRange	10	2593	QPSK	9.38
TDD41	MidRange	10	2593	Q16	9.32
TDD41	MidRange	15	2593	QPSK	14.26
TDD41	MidRange	15	2593	Q16	14.24
TDD41	MidRange	20	2593	QPSK	18.75
TDD41	MidRange	20	2593	Q16	18.74



FDD66	MidRange	1.4	1745	QPSK	1.29
FDD66	MidRange	1.4	1745	Q16	1.28
FDD66	MidRange	3	1745	QPSK	2.98
FDD66	MidRange	3	1745	Q16	2.97
FDD66	MidRange	5	1745	QPSK	4.89
FDD66	MidRange	5	1745	Q16	4.83
FDD66	MidRange	10	1745	QPSK	9.4
FDD66	MidRange	10	1745	Q16	9.4
FDD66	MidRange	15	1745	QPSK	14.26
FDD66	MidRange	15	1745	Q16	14.26
FDD66	MidRange	20	1745	QPSK	18.75
FDD66	MidRange	20	1745	Q16	18.75
FDD71	MidRange	5	680.5	QPSK	5.01
FDD71	MidRange	5	680.5	Q16	5.05
FDD71	MidRange	10	680.5	QPSK	9.76
FDD71	MidRange	10	680.5	Q16	9.59
FDD71	MidRange	15	680.5	QPSK	14.84
FDD71	MidRange	15	680.5	Q16	14.76
FDD71	MidRange	20	683	QPSK	19.13
FDD71	MidRange	20	683	Q16	19.32



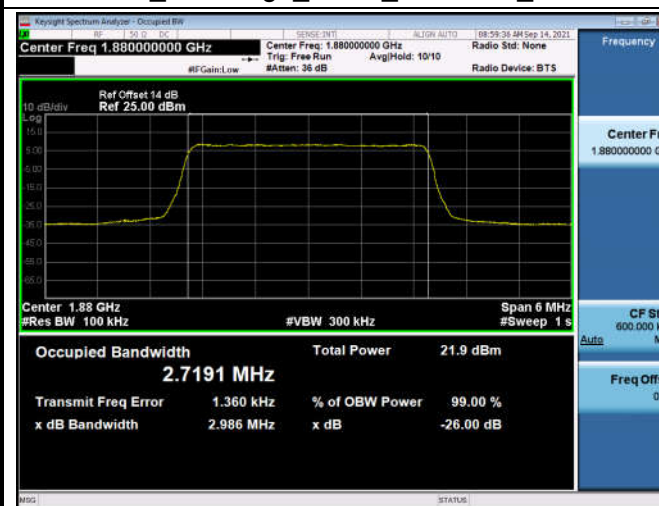
FDD02_MidRange_1.4MHz_1880MHz_QPSK



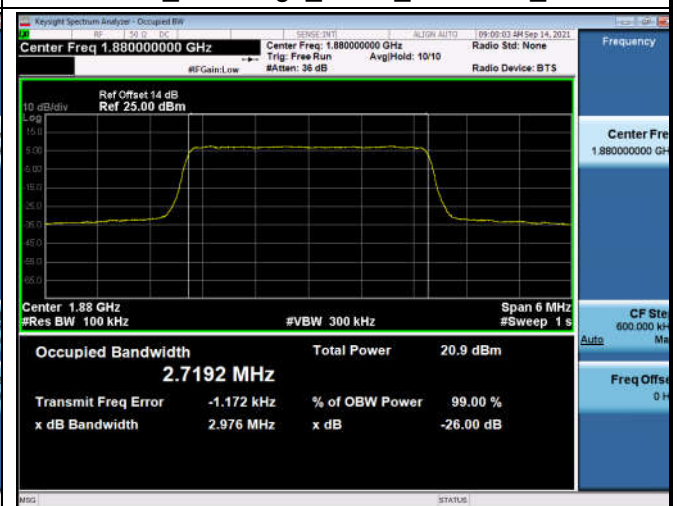
FDD02_MidRange_1.4MHz_1880MHz_Q16



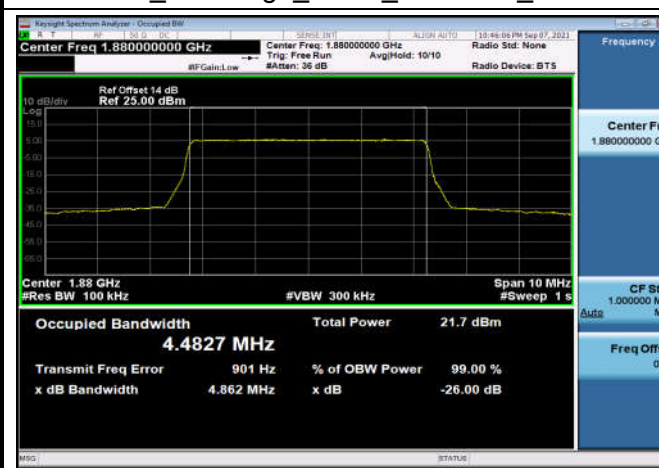
FDD02_MidRange_3MHz_1880MHz_QPSK



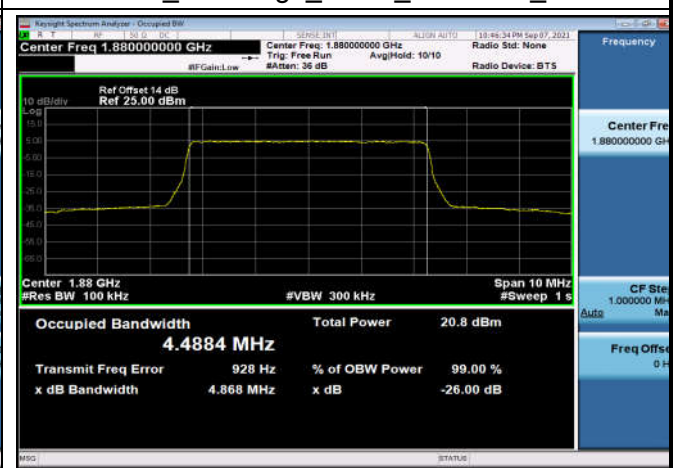
FDD02_MidRange_3MHz_1880MHz_Q16



FDD02_MidRange_5MHz_1880MHz_QPSK

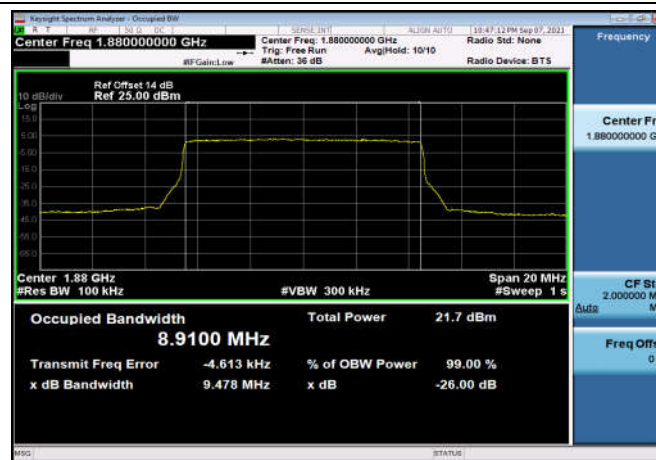


FDD02_MidRange_5MHz_1880MHz_Q16

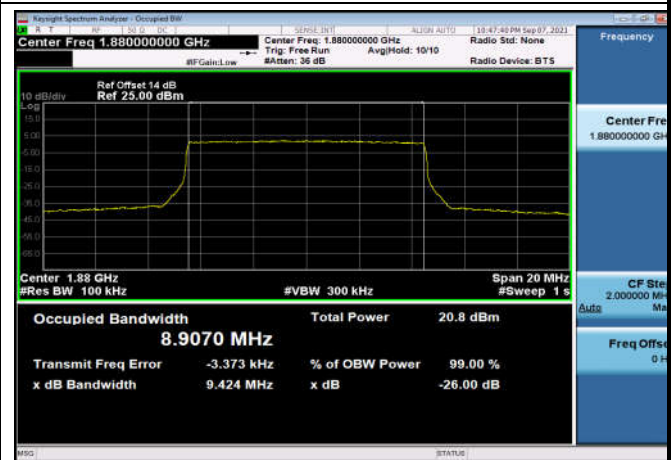




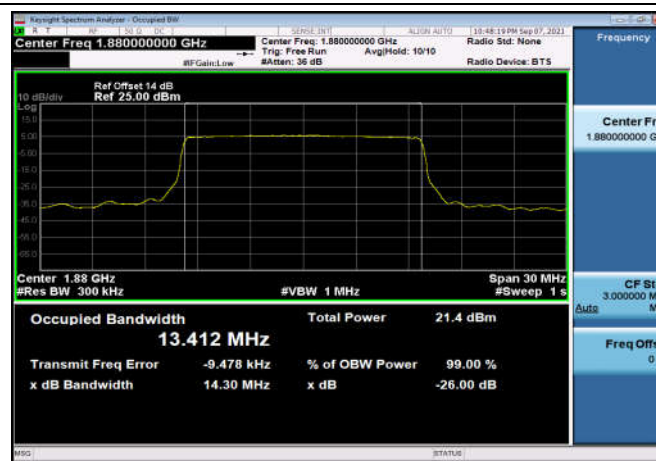
FDD02_MidRange_10MHz_1880MHz_QPSK



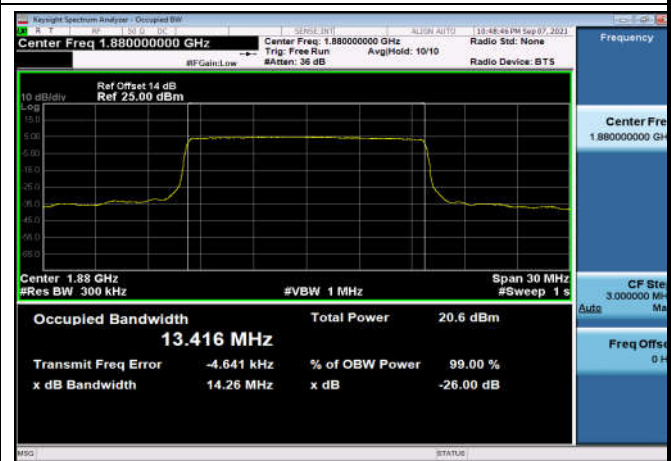
FDD02_MidRange_10MHz_1880MHz_Q16



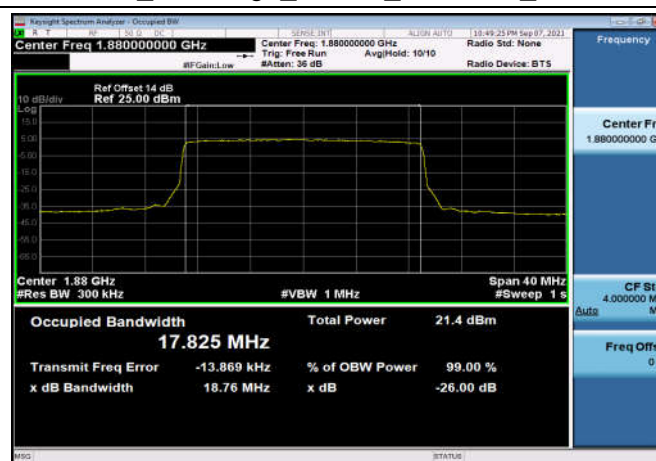
FDD02_MidRange_15MHz_1880MHz_QPSK



FDD02_MidRange_15MHz_1880MHz_Q16



FDD02_MidRange_20MHz_1880MHz_QPSK



FDD02_MidRange_20MHz_1880MHz_Q16

