



RF TEST REPORT

Report No.: 20250217G03102X-W7

Product Name: SOLIS GO

Model No.: SGO24

FCC ID: 2A9UP-SOL24PB

Applicant: SIMO Holdings Inc.

Address: PO.Box PO.Box 309, Ugland House, GrandCayman, KY1-1104,
Cayman Islands

Dates of Testing: 04/17/2024 - 05/31/2024
02/25/2025 - 03/21/2025

Issued by: CCIC Southern Testing Co., Ltd.

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Test Report

Product.....: SOLIS GO

Brand Name.....: N/A

Trade Name



Applicant.....: SIMO Holdings Inc.

Applicant Address.....: PO.Box PO.Box 309, Ugland House, GrandCayman,
KY1-1104, Cayman Islands

Manufacturer.....: SIMO Holdings Inc.

Manufacturer Address.....: PO.Box PO.Box 309, Ugland House, GrandCayman,
KY1-1104, Cayman Islands

Test Standards.....: 47 CFR Part 2/22/24/27/90

Test Result.....: Pass

Tested by

2025.03.21

Chuiwang Zhang, Test Engineer

Reviewed by.....

2025.03.21

Sun Jiaohui, Senior Engineer

Approved by.....

2025.03.21

Chris You, Manager

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Change History		
Issue	Date	Reason for change
1.0	2025.03.21	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Data terminal	
EUT supports	LTE Band 2/4/5/7/12/17/25/26/41	
Radios application	LTE Band 7C/41C	
Frequency Range (Tx)	LTE Band 2: 1850MHz~1910MHz LTE Band 4: 1710MHz~1755MHz LTE Band 5: 824MHz~849MHz LTE Band 7: 2500MHz~2570MHz LTE Band 12: 699MHz~716MHz LTE Band 17: 704MHz~716MHz	LTE Band 25: 1850MHz~1915MHz LTE Band 26: 814MHz~849MHz LTE Band 41: 2555MHz~2655MHz LTE Band 7C: 2500MHz~2570MHz LTE Band 41C: 2555MHz~2655MHz
Channel Bandwidth	LTE Band 2/4/25: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5/12: 1.4MHz/3MHz/5MHz/10MHz LTE Band 7/41: 5MHz/10MHz/15MHz/20MHz LTE Band 17: 5MHz/10MHz LTE Band 26(Part 22): 1.4MHz/3MHz/5MHz/10MHz/15MHz LTE Band 26(Part 90): 1.4MHz/3MHz/5MHz/10MHz	
Modulation Type	QPSK/16QAM/64QAM(downlink only)	
Maximum ERP/EIRP	LTE Band 2: 25.02dBm LTE Band 4: 21.87dBm LTE Band 5: 18.19dBm LTE Band 7: 26.77dBm LTE Band 12: 15.42dBm LTE Band 17: 17.82dBm	LTE Band 25: 15.39dBm LTE Band 26(Part 22): 26.65dBm LTE Band 26(Part 90): 26.65dBm LTE Band 41: 26.68dBm LTE Band 7C: 26.77dBm LTE Band 41C: 26.77dBm
Antenna Type	Internal Antenna	
Antenna gain	LTE Band 2/25: 3.27dBi LTE Band 4: 3.47dBi LTE Band 5/26: -1.6dBi	LTE Band 7/7C: 2.88dBi LTE Band 12/17: -3.75dBi LTE Band 41/41C: 2.75dBi
Power supply	Rechargeable Li-ion Battery DC3.8V/8000mAh	

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: This report is based on the original report 20240417G06548X-W7. EUT Batteries were changed from single cell to dual cell, and conducted nuisance and radiated spurious were re-tested in accordance with the change in EUT.

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

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
LTE Band 2	QPSK	1.4	1M09G7D	—	0.438
LTE Band 2	16QAM	1.4	1M09W7D	—	0.346
LTE Band 2	QPSK	3	2M68G7D	—	0.422
LTE Band 2	16QAM	3	2M68W7D	—	0.339
LTE Band 2	QPSK	5	4M50G7D	—	0.421
LTE Band 2	16QAM	5	4M50W7D	—	0.348
LTE Band 2	QPSK	10	8M95G7D	0.013	0.430
LTE Band 2	16QAM	10	8M93W7D	—	0.348
LTE Band 2	QPSK	15	13M5G7D	—	0.427
LTE Band 2	16QAM	15	13M5W7D	—	0.348
LTE Band 2	QPSK	20	17M9G7D	—	0.440
LTE Band 2	16QAM	20	17M9W7D	—	0.347
LTE Band 4	QPSK	1.4	1M09G7D	—	0.432
LTE Band 4	16QAM	1.4	1M09W7D	—	0.349
LTE Band 4	QPSK	3	2M69G7D	—	0.425
LTE Band 4	16QAM	3	2M68W7D	—	0.328
LTE Band 4	QPSK	5	4M51G7D	—	0.417
LTE Band 4	16QAM	5	4M50W7D	—	0.336
LTE Band 4	QPSK	10	8M95G7D	0.017	0.424
LTE Band 4	16QAM	10	8M94W7D	—	0.346
LTE Band 4	QPSK	15	13M5G7D	—	0.424
LTE Band 4	16QAM	15	13M5W7D	—	0.346
LTE Band 4	QPSK	20	17M9G7D	—	0.438
LTE Band 4	16QAM	20	17M9W7D	—	0.360
LTE Band 7	QPSK	5	4M50G7D	—	0.182
LTE Band 7	16QAM	5	4M49W7D	—	0.149
LTE Band 7	QPSK	10	8M94G7D	0.007	0.182
LTE Band 7	16QAM	10	8M95W7D	—	0.147
LTE Band 7	QPSK	15	13M5G7D	—	0.182
LTE Band 7	16QAM	15	13M5W7D	—	0.144
LTE Band 7	QPSK	20	17M9G7D	—	0.182
LTE Band 7	16QAM	20	17M9W7D	—	0.147
LTE Band 25	QPSK	1.4	1M09G7D	—	0.439
LTE Band 25	16QAM	1.4	1M09W7D	—	0.345
LTE Band 25	QPSK	3	2M68G7D	—	0.419
LTE Band 25	16QAM	3	2M68W7D	—	0.339
LTE Band 25	QPSK	5	4M49G7D	—	0.520
LTE Band 25	16QAM	5	4M50W7D	—	0.339



LTE Band 25	QPSK	10	8M95G7D	0.008	0.430
LTE Band 25	16QAM	10	8M94W7D	—	0.349
LTE Band 25	QPSK	15	13M5G7D	—	0.421
LTE Band 25	16QAM	15	13M5W7D	—	0.345
LTE Band 25	QPSK	20	17M9G7D	—	0.435
LTE Band 25	16QAM	20	17M9W7D	—	0.347
LTE Band 41	QPSK	5	4M49G7D	—	0.414
LTE Band 41	16QAM	5	4M50W7D	—	0.329
LTE Band 41	QPSK	10	8M94G7D	0.007	0.424
LTE Band 41	16QAM	10	8M93W7D	—	0.332
LTE Band 41	QPSK	15	13M5G7D	—	0.415
LTE Band 41	16QAM	15	13M5W7D	—	0.326
LTE Band 41	QPSK	20	17M9G7D	—	0.427
LTE Band 41	16QAM	20	17M9W7D	—	0.355
LTE Band 7C	QPSK	10+20	27M8G7D	—	0.099
LTE Band 7C	16QAM	10+20	27M8W7D	—	0.075
LTE Band 7C	QPSK	15+10	23M3G7D	—	0.104
LTE Band 7C	16QAM	15+10	23M3W7D	—	0.084
LTE Band 7C	QPSK	15+15	28M4G7D	—	0.102
LTE Band 7C	16QAM	15+15	28M4W7D	—	0.080
LTE Band 7C	QPSK	15+20	32M7G7D	—	0.101
LTE Band 7C	16QAM	15+20	32M7W7D	—	0.082
LTE Band 7C	QPSK	20+10	27M8G7D	—	0.104
LTE Band 7C	16QAM	20+10	27M9W7D	—	0.082
LTE Band 7C	QPSK	20+15	32M7G7D	—	0.102
LTE Band 7C	16QAM	20+15	32M7W7D	—	0.082
LTE Band 7C	QPSK	20+20	37M6G7D	6.358818	0.102
LTE Band 7C	16QAM	20+20	37M6W7D	—	0.083
LTE Band 41C	QPSK	10+20	27M8G7D	—	0.244
LTE Band 41C	16QAM	10+20	27M8W7D	—	0.184
LTE Band 41C	QPSK	15+10	23M2G7D	—	0.248
LTE Band 41C	16QAM	15+10	23M3W7D	—	0.193
LTE Band 41C	QPSK	15+15	28M4G7D	—	0.242
LTE Band 41C	16QAM	15+15	28M4W7D	—	0.192
LTE Band 41C	QPSK	15+20	32M8G7D	—	0.243
LTE Band 41C	16QAM	15+20	32M7W7D	—	0.192
LTE Band 41C	QPSK	20+10	27M8G7D	—	0.249
LTE Band 41C	16QAM	20+10	27M9W7D	—	0.198
LTE Band 41C	QPSK	20+15	32M7G7D	—	0.243
LTE Band 41C	16QAM	20+15	32M7W7D	—	0.191
LTE Band 41C	QPSK	20+20	32M9G7D	-0.006200	0.239
LTE Band 41C	16QAM	20+20	37M7W7D	—	0.189

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 5	QPSK	1.4	1M09G7D	—	0.089
LTE Band 5	16QAM	1.4	1M09W7D	—	0.070
LTE Band 5	QPSK	3	2M68G7D	—	0.087
LTE Band 5	16QAM	3	2M68W7D	—	0.069
LTE Band 5	QPSK	5	4M50G7D	—	0.088
LTE Band 5	16QAM	5	4M50W7D	—	0.070
LTE Band 5	QPSK	10	8M93G7D	0.017	0.088
LTE Band 5	16QAM	10	8M94W7D	—	0.070
LTE Band 12	QPSK	1.4	1M09G7D	—	0.052
LTE Band 12	16QAM	1.4	1M09W7D	—	0.042
LTE Band 12	QPSK	3	2M68G7D	—	0.053
LTE Band 12	16QAM	3	2M67W7D	—	0.051
LTE Band 12	QPSK	5	4M51G7D	—	0.052
LTE Band 12	16QAM	5	4M50W7D	—	0.043
LTE Band 12	QPSK	10	8M91G7D	0.029	0.054
LTE Band 12	16QAM	10	8M91W7D	—	0.043
LTE Band 17	QPSK	5	4M50G7D	—	0.052
LTE Band 17	16QAM	5	4M50W7D	—	0.043
LTE Band 17	QPSK	10	8M91G7D	0.021	0.052
LTE Band 17	16QAM	10	8M91W7D	—	0.042
LTE Band 26 (Part 90)	QPSK	1.4	1M09G7D	—	0.088
LTE Band 26 (Part 90)	16QAM	1.4	1M09W7D	—	0.069
LTE Band 26 (Part 90)	QPSK	3	2M68G7D	—	0.087
LTE Band 26 (Part 90)	16QAM	3	2M68W7D	—	0.070
LTE Band 26 (Part 90)	QPSK	5	4M50G7D	—	0.088
LTE Band 26 (Part 90)	16QAM	5	4M50W7D	—	0.070
LTE Band 26 (Part 90)	QPSK	10	8M94G7D	0.019	0.088
LTE Band 26 (Part 90)	16QAM	10	8M93W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	1.4	1M09G7D	—	0.087
LTE Band 26 (Part 22)	16QAM	1.4	1M09W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	3	2M68G7D	—	0.087
LTE Band 26 (Part 22)	16QAM	3	2M68W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	5	4M49G7D	—	0.088
LTE Band 26 (Part 22)	16QAM	5	4M49W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	10	8M93G7D	0.016	0.088
LTE Band 26 (Part 22)	16QAM	10	8M93W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	15	13M5G7D	—	0.087
LTE Band 26 (Part 22)	16QAM	15	13M5W7D	—	0.070

1.3. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	Private Land Mobile Radio Services
6	KDB 971168 D01 Power Meas License Digital Systems v03r01	Measurement Guidance For Certification of Licensed Digital Transmitters
7	KDB 412172 D01 Determining ERP and EIRP v01r01	Guidelines for Determining the Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) of an RF Transmitting Systems
8	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
9	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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

No.	FCC Rule	Description	Limit	Result
1	2.1046	Conducted Output Power	Reporting Only	PASS
2	22.913 (d) 24.232 (d) 27.50 (d)(5)	Peak to Average Ratio	< 13dB	PASS
3	24.232 (c)	Equivalent Isotropic Radiated Power (Band 2/25)	EIRP < 2W	PASS
	27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1W	PASS
	22.913 (a)(5)	Effective Radiated Power (Band 5)	ERP < 7W	PASS
	27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 7/38/41)	EIRP < 2W	PASS
	27.50 (c)(10)	Effective Radiated Power (Band 12/17)	ERP < 3W	PASS
	90.635 (b)	Effective Radiated Power (Band 26_Part 90)	ERP < 100W	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS
5	2.1051 22.917 (a) 24.238 (a)	Conducted Spurious Emission and Conducted Band Edge (Band 2/4/5/12/17/25/26)	< 43+10log ₁₀ (P[watt])	PASS
	27.53 (h) 27.53 (g) 27.53 (m)(4) 90.691 (a)	Conducted Spurious Emission and Conducted Band Edge (Band 7/41)	Refer to 27.53(m)(4)	PASS
6	2.1053 22.917 (a) 24.238 (a)	Radiated Spurious Emission (Band 2/4/5/12/17/25/26)	< 43+10log ₁₀ (P[Watts])	PASS
	27.53 (h) 27.53 (g) 27.53 (m)(4) 90.691 (a)	Radiated Spurious Emission (Band 7/41)	< 55+10log ₁₀ (P[watt])	PASS
7	2.1055 22.355	Frequency Stability (Band 5/26)	< ±2.5ppm	PASS
	24.235 27.54 90.213 (a)	Frequency Stability (Band 2/4/7/12/13/17/25/41)	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 Configuration			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Output Power and ERP/EIRP	2/25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5/12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7/41			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	17			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	26_Part 22	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	26_Part 90	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2/25						✓		✓	✓		✓	✓	✓	✓
	4						✓		✓	✓		✓	✓	✓	✓
	5/12				✓				✓	✓		✓	✓	✓	✓
	7/41						✓		✓	✓		✓	✓	✓	✓
	17			✓	✓				✓	✓		✓	✓	✓	✓
	26_Part 22					✓			✓	✓		✓	✓	✓	✓
	26_Part 90				✓				✓	✓		✓	✓	✓	✓
99% OBW and 26dB EBW	2/25	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5/12	✓	✓	✓	✓			✓	✓			✓		✓	
	7/41			✓	✓	✓	✓	✓	✓			✓		✓	
	17			✓	✓			✓	✓			✓		✓	
	26_Part 22	✓	✓	✓	✓	✓		✓	✓			✓		✓	
	26_Part 90	✓	✓	✓	✓			✓	✓			✓		✓	
Conducted Band Edge	2/25	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	5/12	✓	✓	✓	✓			✓		✓		✓	✓		✓
	7/41			✓	✓	✓	✓	✓		✓		✓	✓		✓
	17			✓	✓			✓		✓		✓	✓		✓
	26_Part 22	✓	✓	✓	✓	✓		✓		✓		✓	✓		✓
	26_Part 90	✓	✓	✓	✓			✓		✓		✓	✓		✓
Conducted Spurious Emission	2/25						✓	✓		✓			✓	✓	✓
	4						✓	✓		✓			✓	✓	✓
	5/12				✓			✓		✓			✓	✓	✓
	7/41						✓	✓		✓			✓	✓	✓
	17			✓	✓			✓		✓			✓	✓	✓
	26_Part 22					✓		✓		✓			✓	✓	✓



	26_Part 90				✓			✓		✓			✓	✓	✓
Frequency Stability	2/25				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5/12				✓			✓				✓		✓	
	7/41				✓			✓				✓		✓	
	17				✓			✓				✓		✓	
	26_Part 22				✓			✓				✓		✓	
	26_Part 90				✓			✓				✓		✓	
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case												✓	
	12	Worst case												✓	
	17	Worst case												✓	
	25	Worst case												✓	
	26	Worst case												✓	
	41	Worst case												✓	

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

LTE Band 7C/41C:

Test Items	Band	Bandwidth(MHz)	Modulation	RB Configuration	Test Channel
Conducted Output Power and ERP/EIRP	7C/41C	10+20, 15+10, 15+15, 15+20, 20+10, 20+15, 20+20	QPSK, 16QAM	1RB, Half, Full	L, M, H
Peak-to-Average Ratio	7C/41C	20+20	QPSK, 16QAM	Full	L, M, H
99% OBW and 26dB EBW	7C/41C	10+20, 15+10, 15+15, 15+20, 20+10, 20+15, 20+20	QPSK, 16QAM	Full	M
Conducted Band Edge	7C/41C	10+20, 15+10, 15+15, 15+20, 20+10, 20+15, 20+20	QPSK	1RB, Full	L, H
Conducted Spurious Emission	7C/41C	20+20	QPSK	1RB	L, M, H
Frequency Stability	7C/41C	20+20	QPSK	Full	M
Radiated Spurious Emission	7C/41C	20+20	QPSK	1RB	M



1.1. Laboratory Facilities and Accreditation Certificate

☒ CCIC-SET Lab 1

Address: Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

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 Jun. 30th, 2025.

ISED Registration: 11185A, CAB number: 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 on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

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.

CNAS L1659

CCIC Southern Testing Co., Ltd. CCIC 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.

☐ CCIC-SET Lab 4

Address: No.125, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan City, Guangdong Province, China

CNAS L1659

CCIC Southern Testing Co., Ltd. CCIC 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.

1.5. 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. 47 CFR Part 2 Requirements

2.1. Conducted Output Power and ERP/EIRP

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).

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2/7/25/41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5/26(Part 22).

The ERP of mobile transmitters must not exceed 100 Watts for LTE Band 5/26(Part 90).

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12/17.

According to KDB 412172 D01 Determining ERP and EIRP v01r01.

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm;

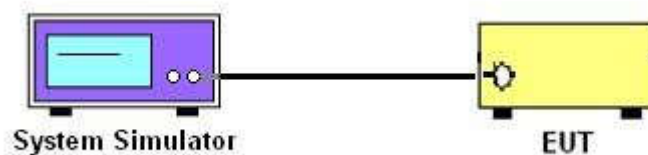
G_T = gain of the transmitting antenna in dBi;

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

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 of Conducted Output Power and ERP/EIRP

Please refer to Appendix A for detail.

2.2. Peak-to-average power ratio (PAPR)

2.2.1. Requirement

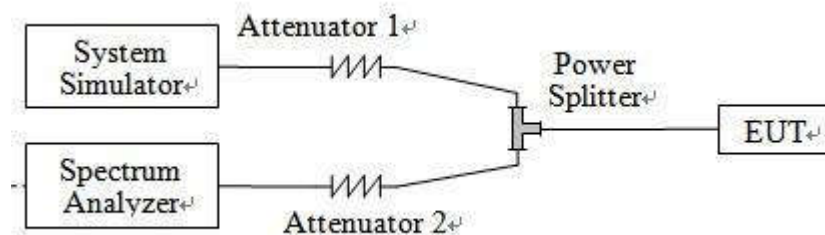
Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement 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 power ratio (PAPR) of the transmission may not exceed 13 dB.

2.2.2. Measuring Instruments

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

2.2.3. Test Description



2.2.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 5.7.2 and ANSI C63.26-2015 Section 5.2.3.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.
7. Repeat step 3~6 at other frequency and modulations.



2.2.5. Test Results of Peak-to-average power ratio (PAPR)

Please refer to Appendix A for detail.

2.3. 99% Occupied Bandwidth and 26dB Emission Bandwidth

2.3.1. Requirement

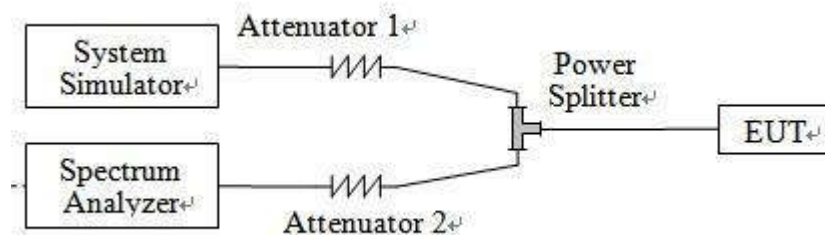
The Occupied Bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 4 and ANSI C63.26-2015 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
4. Set span to be approximately 1.5 to 5 times the OBW.
5. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW.
6. Set $VBW \geq 3 \times RBW$.
7. Set Detection mode = peak.
8. Set Trace mode = max hold.
9. Allow trace to stabilize.
10. Repeat step 3~9 at other frequency and modulations.



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

Please refer to Appendix A for detail.

2.4. Conducted Band Edge

2.4.1. Requirement

For Band 2&25 [Part 24.238 (a)]:

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. 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 Band 4 [Part 27.53 (h)]:

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 Band 5&26[Part 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. In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified).

For Band 78&41 [Part 27.53 (m)(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.

For Band 12&17 [Part 27.53 (g)]:

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a 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, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to

a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For Band 26 [Part 90.691 (a)]:

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

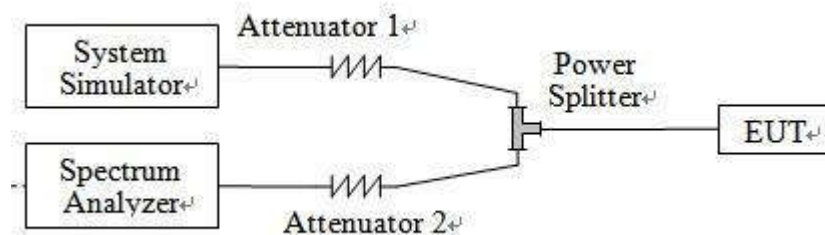
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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 testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Span was set large enough so as to capture all out of band emissions near the Channel Edge.
4. Use $RBW \geq 1\%$ EBW in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, and use $RBW = 1$ MHz outside 1 MHz of the authorized frequency

channel.

5. Set $VBW \geq 3 \times RBW$
6. Set Detector = power averaging (rms).
7. Set the number of points in sweep $\geq 2 \times \text{span} / RBW$.
8. Set sweep trigger to “free run.”
9. Set the Sweep time $> (\text{number of points in sweep}) \times (\text{transmitter period})$ (i.e., the transmit on-time + the off-time).
10. Perform a trace average of at least 100 traces.
11. Repeat step 3~10 at other frequency and modulations.

2.4.5. Test Result of Conducted Band Edge

Please refer to Appendix A for detail.

2.5. Conducted Spurious Emission

2.5.1. Requirement

For Band 2 & 4 & 5 & 12 & 17 & 25 & 26:

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.

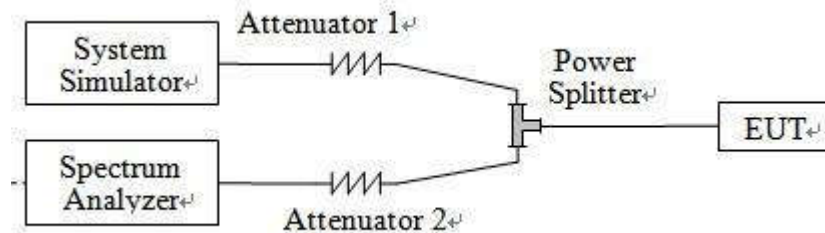
For Band 7 & 41 & 7C & 41C:

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 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the spectrum analyzer start frequency to 9kHz and stop frequency to the tenth harmonic of the highest fundamental frequency.
4. Set RBW = 1MHz, VBW $\geq 3 \times$ RBW
5. Set Detector = peak.
6. Set Trace mode = max hold.
7. Set Sweep time = auto-couple.
8. Identify and measure the highest spurious emission levels in each frequency range.
9. Compare the results with the corresponding limit in the applicable regulation.
10. Repeat step 3~9 at other frequency and modulations.



2.5.5. Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail.

2.6. Radiated Spurious Emission

2.6.1. Requirement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E-2016.

For Band 2 & 4 & 5 & 12 & 13 & 17:

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 Band 7 & 38 & 41:

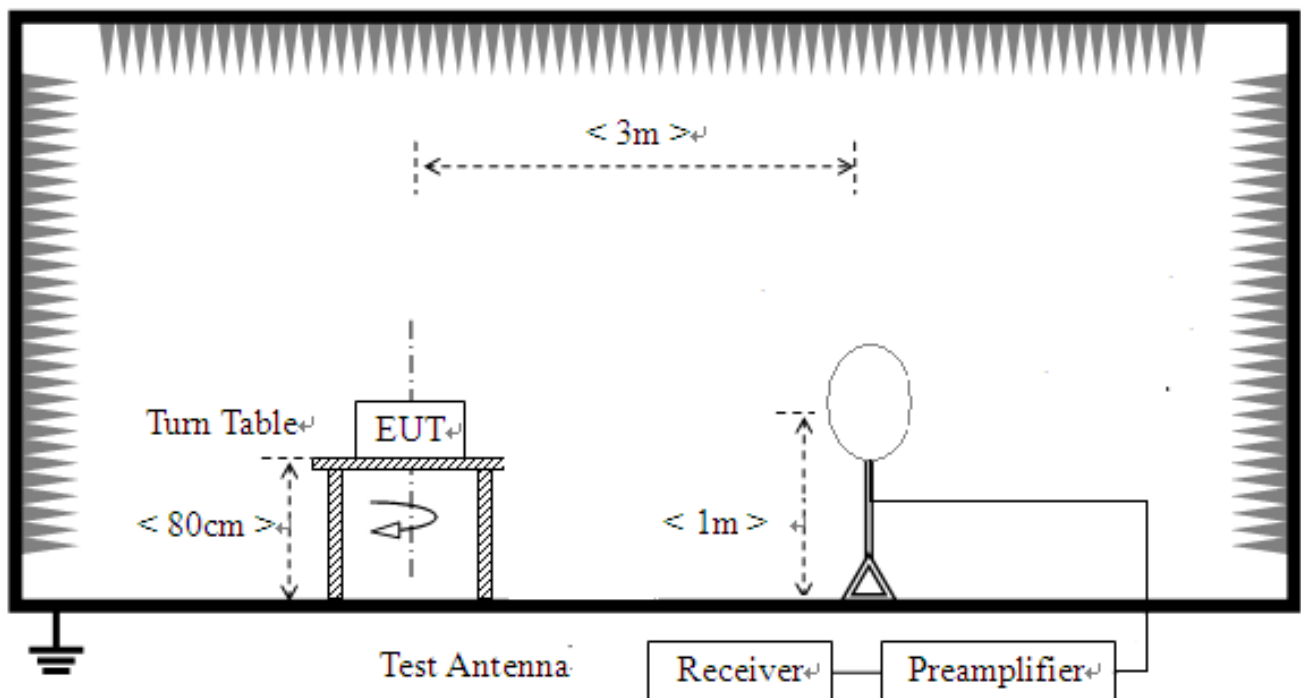
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.6.2. Measuring Instruments

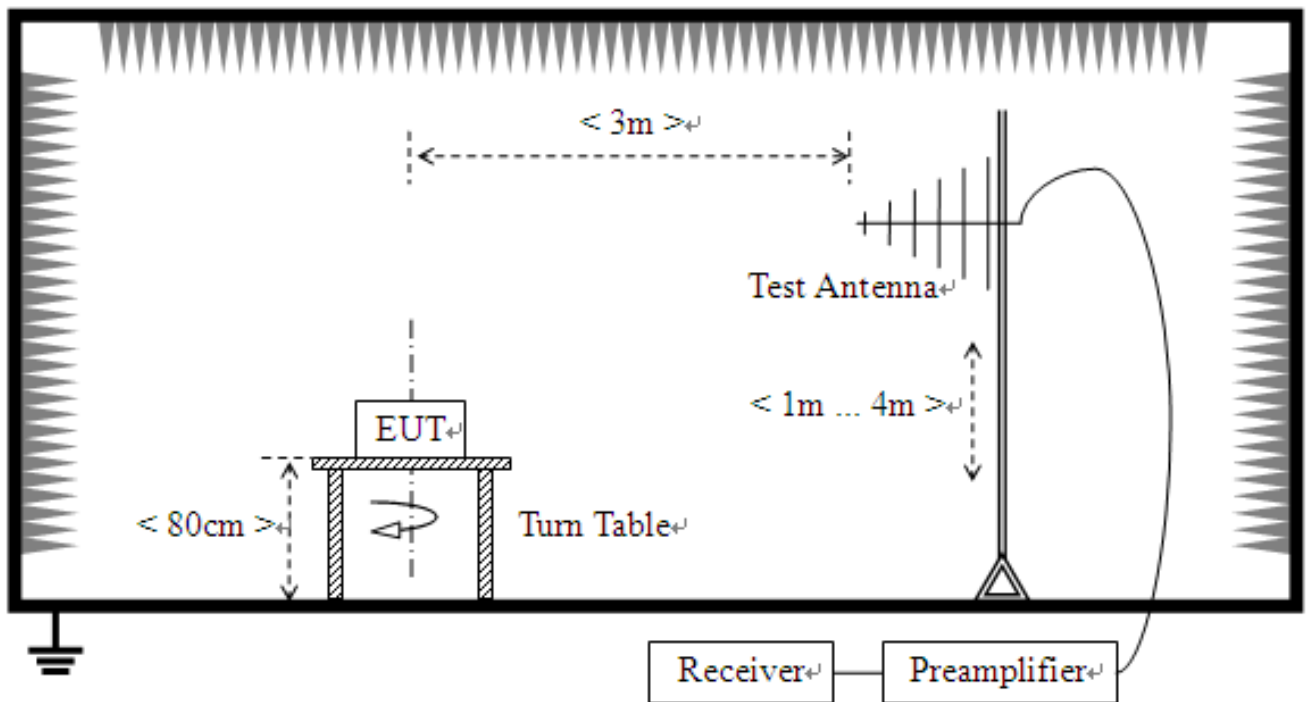
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

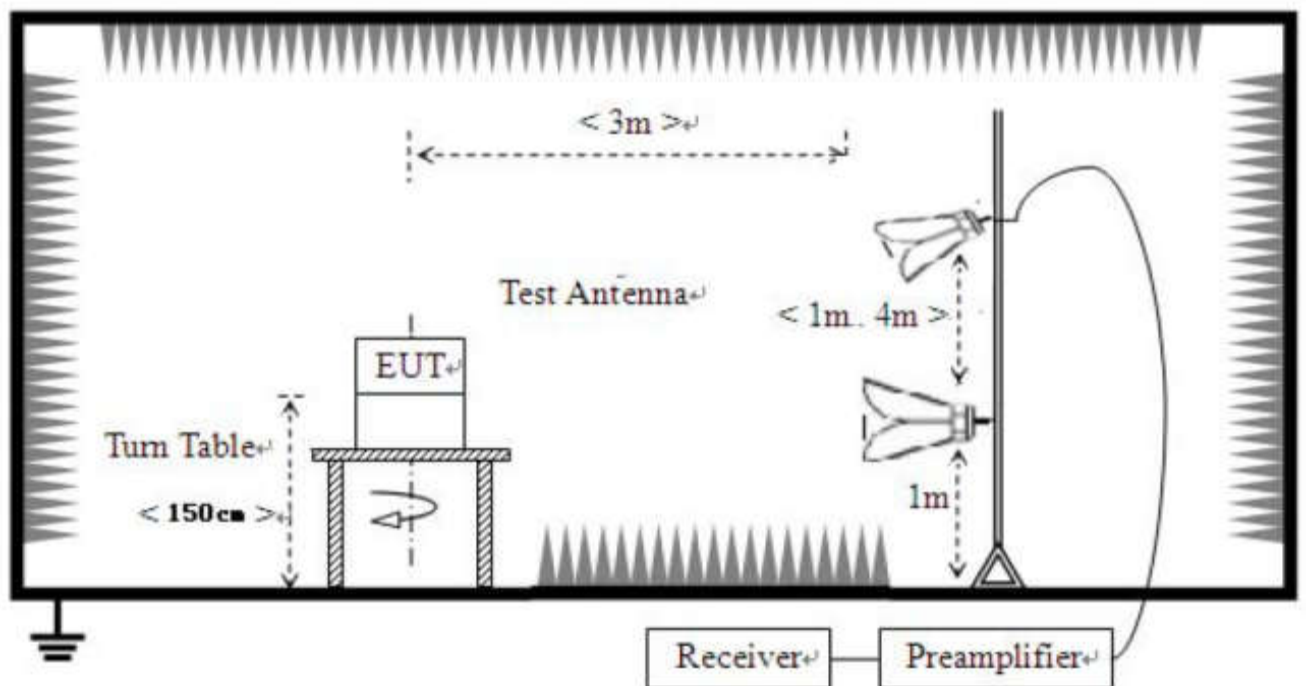
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter (for below 1GHz) / 1.5 meters (for above 1GHz) 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.
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 full, RB Offset 0.

2.6.5. Test Result of Radiated Spurious Emission

Note: 1. The emission levels of above 18GHz are lower than the limit 20dB and not show in test report.

Note: 2. Absolute Level = Reading Level + Factor.

LTE Band 2 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	51.36	-85.87	-66.63	-13.00	53.63	19.24	Horizontal
2	193.12	-96.94	-73.86	-13.00	60.86	23.08	Horizontal
3	690.26	-100.66	-66.11	-13.00	53.11	34.55	Horizontal
4	1320.16	-56.41	-57.25	-13.00	44.25	-0.84	Horizontal
5	4888.69	-59.27	-44.52	-13.00	31.52	14.75	Horizontal
6	10144.7	-60.81	-38.95	-13.00	25.95	21.86	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	56.22	-89.66	-70.07	-13.00	57.07	19.59	Vertical
2	258.18	-97.76	-73.10	-13.00	60.10	24.66	Vertical
3	456.26	-99.54	-70.07	-13.00	57.07	29.47	Vertical
4	1399.20	-57.45	-57.93	-13.00	44.93	-0.48	Vertical
5	2991.00	-57.54	-48.23	-13.00	35.23	9.31	Vertical
6	7830.92	-60.37	-41.05	-13.00	28.05	19.32	Vertical

LTE Band 4 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	103.79	-97.32	-77.98	-13.00	64.98	19.34	Horizontal
2	364.01	-98.57	-70.09	-13.00	57.09	28.48	Horizontal
3	630.06	-102.60	-69.36	-13.00	56.36	33.24	Horizontal
4	1197.10	-57.52	-58.72	-13.00	45.72	-1.20	Horizontal
5	4809.91	-59.12	-44.38	-13.00	31.38	14.74	Horizontal
6	7513.13	-59.51	-39.85	-13.00	26.85	19.66	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	119.33	-99.18	-76.48	-13.00	63.48	22.70	Vertical
2	320.32	-100.10	-74.38	-13.00	61.38	25.72	Vertical
3	758.23	-104.27	-68.41	-13.00	55.41	35.86	Vertical
4	1427.21	-56.02	-56.35	-13.00	43.35	-0.33	Vertical
5	4852.68	-59.59	-44.85	-13.00	31.85	14.74	Vertical
6	10601.6	-61.76	-39.04	-13.00	26.04	22.72	Vertical

LTE Band 5 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	90.20	-96.41	-77.21	-13.00	64.21	19.20	Horizontal
2	181.47	-100.89	-78.27	-13.00	65.27	22.62	Horizontal
3	544.61	-104.21	-72.52	-13.00	59.52	31.69	Horizontal
4	2207.60	-56.66	-51.70	-13.00	38.70	4.96	Horizontal
5	5095.80	-58.69	-44.09	-13.00	31.09	14.60	Horizontal
6	7317.66	-59.18	-40.01	-13.00	27.01	19.17	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.91	-99.67	-78.54	-13.00	65.54	21.13	Vertical
2	129.04	-104.09	-82.29	-13.00	69.29	21.80	Vertical
3	509.66	-104.97	-74.15	-13.00	61.15	30.82	Vertical
4	1872.44	-57.36	-54.17	-13.00	41.17	3.19	Vertical
5	4931.47	-59.78	-45.21	-13.00	32.21	14.57	Vertical
6	10748.7	-61.47	-39.02	-13.00	26.02	22.45	Vertical

LTE Band 7 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.80	-101.07	-78.72	-25.00	53.72	22.35	Horizontal
2	194.09	-106.22	-83.09	-25.00	58.09	23.13	Horizontal
3	665.99	-104.77	-70.02	-25.00	45.02	34.75	Horizontal
4	1584.29	-56.37	-55.65	-25.00	30.65	0.72	Horizontal
5	4852.68	-59.27	-44.53	-25.00	19.53	14.74	Horizontal
6	8694.97	-60.04	-40.86	-25.00	15.86	19.18	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	102.82	-105.41	-81.24	-25.00	56.24	24.17	Vertical
2	167.88	-102.59	-82.65	-25.00	57.65	19.94	Vertical
3	772.79	-105.11	-69.13	-25.00	44.13	35.98	Vertical
4	1815.41	-58.05	-54.75	-25.00	29.75	3.30	Vertical
5	3549.27	-55.58	-48.45	-25.00	23.45	7.13	Vertical
6	7823.04	-59.86	-40.56	-25.00	15.56	19.30	Vertical

LTE Band 12 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.80	-98.89	-76.54	-13.00	63.54	22.35	Horizontal
2	195.07	-107.16	-83.97	-13.00	70.97	23.19	Horizontal
3	444.60	-105.22	-76.59	-13.00	63.59	28.63	Horizontal
4	2287.64	-56.84	-51.39	-13.00	38.39	5.45	Horizontal
5	4881.94	-59.05	-44.30	-13.00	31.30	14.75	Horizontal
6	10115.8	-61.76	-39.68	-13.00	26.68	22.08	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	55.25	-100.40	-80.93	-13.00	67.93	19.47	Vertical
2	143.60	-101.67	-81.22	-13.00	68.22	20.45	Vertical
3	469.85	-105.41	-75.64	-13.00	62.64	29.77	Vertical
4	2231.62	-57.01	-51.90	-13.00	38.90	5.11	Vertical
5	5789.14	-55.00	-40.94	-13.00	27.94	14.06	Vertical
6	11864.9	-62.87	-39.16	-13.00	26.16	23.71	Vertical

LTE Band 17 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.00	-99.65	-75.65	-13.00	62.65	24.00	Horizontal
2	90.20	-97.49	-78.29	-13.00	65.29	19.20	Horizontal
3	334.88	-106.57	-78.45	-13.00	65.45	28.12	Horizontal
4	1718.36	-57.39	-54.89	-13.00	41.89	2.50	Horizontal
5	4827.91	-59.56	-44.82	-13.00	31.82	14.74	Horizontal
6	10950.9	-61.63	-38.75	-13.00	25.75	22.88	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.77	-101.94	-81.48	-13.00	68.48	20.46	Vertical
2	129.04	-102.46	-80.66	-13.00	67.66	21.80	Vertical
3	565.01	-105.02	-73.05	-13.00	60.05	31.97	Vertical
4	2423.71	-56.21	-50.29	-13.00	37.29	5.92	Vertical
5	5122.81	-59.24	-44.68	-13.00	31.68	14.56	Vertical
6	7723.24	-60.07	-40.78	-13.00	27.78	19.29	Vertical

LTE Band 25 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.85	-98.54	-75.72	-13.00	62.72	22.82	Horizontal
2	167.88	-101.55	-79.65	-13.00	66.65	21.90	Horizontal
3	667.93	-104.99	-70.27	-13.00	57.27	34.72	Horizontal
4	1281.14	-57.21	-58.19	-13.00	45.19	-0.98	Horizontal
5	5235.37	-58.84	-44.67	-13.00	31.67	14.17	Horizontal
6	10964.1	-62.23	-39.40	-13.00	26.40	22.83	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.65	-95.96	-76.04	-13.00	63.04	19.92	Vertical
2	124.18	-104.32	-82.06	-13.00	69.06	22.26	Vertical
3	461.11	-102.75	-73.20	-13.00	60.20	29.55	Vertical
4	1427.21	-56.96	-57.29	-13.00	44.29	-0.33	Vertical
5	5084.54	-59.37	-44.81	-13.00	31.81	14.56	Vertical
6	10572.7	-61.87	-39.27	-13.00	26.27	22.60	Vertical

LTE Band 26_Part 22 QPSK 15MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.77	-96.27	-74.15	-13.00	61.15	22.12	Horizontal
2	167.88	-101.25	-79.35	-13.00	66.35	21.90	Horizontal
3	530.05	-103.50	-71.38	-13.00	58.38	32.12	Horizontal
4	1874.44	-55.33	-52.14	-13.00	39.14	3.19	Horizontal
5	5392.95	-57.89	-44.00	-13.00	31.00	13.89	Horizontal
6	10793.4	-62.07	-39.40	-13.00	26.40	22.67	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.65	-95.50	-75.58	-13.00	62.58	19.92	Vertical
2	164.97	-101.11	-81.20	-13.00	68.20	19.91	Vertical
3	454.31	-105.08	-75.64	-13.00	62.64	29.44	Vertical
4	2145.57	-55.91	-51.25	-13.00	38.25	4.66	Vertical
5	4992.25	-59.03	-44.81	-13.00	31.81	14.22	Vertical
6	10633.1	-61.70	-39.13	-13.00	26.13	22.57	Vertical

LTE Band 26_Part 90 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.77	-98.06	-75.94	-13.00	62.94	22.12	Horizontal
2	254.29	-105.95	-83.99	-13.00	70.99	21.96	Horizontal
3	486.36	-105.41	-73.79	-13.00	60.79	31.62	Horizontal
4	2113.56	-56.12	-51.62	-13.00	38.62	4.50	Horizontal
5	4796.40	-58.20	-43.52	-13.00	30.52	14.68	Horizontal
6	7470.74	-59.79	-39.89	-13.00	26.89	19.90	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.85	-94.50	-73.64	-13.00	60.64	20.86	Vertical
2	100.88	-105.58	-81.23	-13.00	68.23	24.35	Vertical
3	552.38	-104.50	-73.02	-13.00	60.02	31.48	Vertical
4	2124.56	-56.90	-52.35	-13.00	39.35	4.55	Vertical
5	4884.19	-58.42	-43.68	-13.00	30.68	14.74	Vertical
6	11053.4	-61.74	-38.95	-13.00	25.95	22.79	Vertical

LTE Band 41 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.65	-94.58	-73.40	-25.00	48.40	21.18	Horizontal
2	194.09	-105.86	-82.73	-25.00	57.73	23.13	Horizontal
3	667.93	-104.87	-70.15	-25.00	45.15	34.72	Horizontal
4	1821.41	-57.34	-54.06	-25.00	29.06	3.28	Horizontal
5	5149.82	-59.29	-44.81	-25.00	19.81	14.48	Horizontal
6	10302.2	-61.30	-39.60	-25.00	14.60	21.70	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.48	-104.28	-85.12	-25.00	60.12	19.16	Vertical
2	265.95	-104.00	-79.28	-25.00	54.28	24.72	Vertical
3	565.01	-104.26	-72.29	-25.00	47.29	31.97	Vertical
4	1810.41	-56.73	-53.43	-25.00	28.43	3.30	Vertical
5	4965.23	-59.01	-44.63	-25.00	19.63	14.38	Vertical
6	8881.44	-60.67	-41.43	-25.00	16.43	19.24	Vertical

LTE Band 7C QPSK 20+20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.65	-98.87	-77.69	-25.00	52.69	21.18	Horizontal
2	487.33	-104.30	-72.61	-25.00	47.61	31.69	Horizontal
3	764.05	-103.97	-69.45	-25.00	44.45	34.52	Horizontal
4	1823.41	-57.45	-54.17	-25.00	29.17	3.28	Horizontal
5	5332.17	-58.91	-45.04	-25.00	20.04	13.87	Horizontal
6	10890.5	-62.31	-39.26	-25.00	14.26	23.05	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.71	-97.63	-77.44	-25.00	52.44	20.19	Vertical
2	174.67	-102.91	-82.91	-25.00	57.91	20.00	Vertical
3	479.56	-105.40	-75.38	-25.00	50.38	30.02	Vertical
4	1537.27	-58.14	-57.78	-25.00	32.78	0.36	Vertical
5	5235.37	-58.87	-44.70	-25.00	19.70	14.17	Vertical
6	10118.4	-61.20	-39.15	-25.00	14.15	22.05	Vertical

LTE Band 41C QPSK 20+20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.80	-86.54	-64.19	-25.00	39.19	22.35	Horizontal
2	112.53	-93.24	-73.58	-25.00	48.58	19.66	Horizontal
3	498.98	-104.08	-71.51	-25.00	46.51	32.57	Horizontal
4	2013.51	-57.95	-53.37	-25.00	28.37	4.58	Horizontal
5	4866.18	-59.30	-44.56	-25.00	19.56	14.74	Horizontal
6	7591.92	-60.05	-40.43	-25.00	15.43	19.62	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.00	-98.98	-77.44	-25.00	52.44	21.54	Vertical
2	124.18	-104.24	-81.98	-25.00	56.98	22.26	Vertical
3	478.59	-105.94	-75.94	-25.00	50.94	30.00	Vertical
4	1953.48	-58.28	-54.36	-25.00	29.36	3.92	Vertical
5	4816.66	-59.30	-44.56	-25.00	19.56	14.74	Vertical
6	7283.89	-60.79	-41.75	-25.00	16.75	19.04	Vertical

2.7. Frequency Stability

2.7.1. Requirement

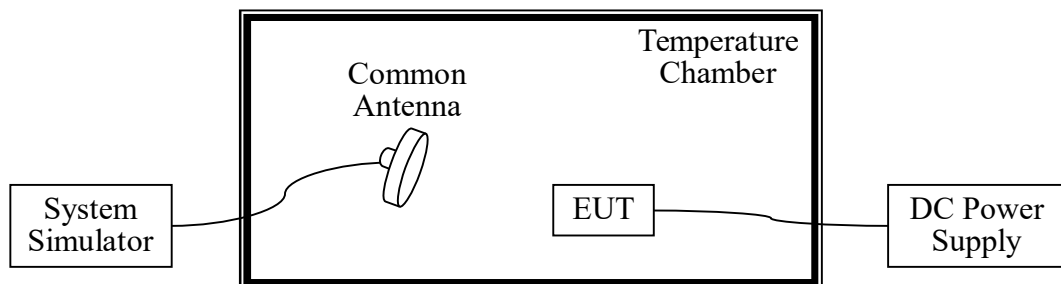
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental 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:

- (1) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (2) 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.

2.7.2. 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 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 20°C .
5. The variation in frequency was measured for the worst case.



2.7.5. Test Result of Frequency Stability

Please refer to Appendix A for detail.

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2022.06.09	2026.06.08
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2024.06.07
5	EMI Horn Ant. (1-18G)	ETC	MCTD-1209	A150402241	2023.05.16	2026.05.15
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2024.05.31
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-1000	A140101634	2023.10.20	2024.10.19
					2024.09.05	2025.09.04
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2023.10.20	2024.10.19
					2024.05.25	2025.05.24
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2024.01.18	2025.01.17
					2024.12.31	2025.12.30
10	Test Receiver	R&S	ESIB7	A0501375	2024.02.28	2025.02.27
					2025.01.13	2026.01.12
11	Broadband Ant.	ETC	MCTD 2786	A150402240	2023.05.22	2026.05.21
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2024.02.27	2027.02.26
13	Constant Temperature Humidity Chamber	ESPEC	SU-642	A150802409	2024.02.22	2025.02.21
					2025.01.03	2026.01.02
14	Wideband Radio Communication tester	R&S	CMW500	A130101034	2023.07.13	2024.07.12
					2024.06.18	2025.06.17
15	Wideband Radio Communication tester	R&S	CMW500	A150802214	2023.06.01	2024.05.31
					2024.03.27	2025.03.26
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
					2024.06.05	2025.06.04
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07
					2024.05.23	2025.05.22
18	Power Supply	R&S	WYJ-60100	A141102031	2023.07.12	2026.07.11
19	Cable(9kHz~30MHz)	/	/	C230800587	2023.08.21	2026.08.20
20	Cable(30MHz~18GHz)	/	XSMJA750-SMN M(RA)-12M	C230800588	2023.08.21	2026.08.20
21	Cable(18GHz~40GHz)	/	SUCOFLEX102	C230800590	2023.08.21	2026.08.20

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 (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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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
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
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APPENDIX A

Conducted Output Power and ERP/EIRP

LTE Band 2 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18607	18900	19193			
			1850.7MHz	1880.0MHz	1909.3MHz			
QPSK	1	0	22.95	22.91	22.84	3.27	26.41	33.00
	1	2	23.08	23.14	23.01			
	1	5	22.93	22.94	22.83			
	3	0	22.09	22.06	21.93			
	3	1	22.06	22.06	22.02			
	3	2	22.12	22.07	21.95			
	6	0	22.07	22.04	21.96			
16QAM	1	0	21.94	21.89	21.83	3.27	25.39	33.00
	1	2	22.12	22.12	22.03			
	1	5	21.90	22.01	21.74			
	3	0	21.08	21.04	21.11			
	3	1	21.16	21.13	21.06			
	3	2	21.12	21.14	21.10			
	6	0	21.05	21.08	20.93			
LTE Band 2 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18615	18900	19185			
			1851.5MHz	1880.0MHz	1908.5MHz			
QPSK	1	0	22.96	22.80	22.92	3.27	26.25	33.00
	1	7	22.94	22.98	22.87			
	1	14	22.87	22.80	22.83			
	8	0	21.97	21.93	21.88			
	8	4	22.00	21.90	21.86			
	8	7	21.93	21.87	21.83			
	15	0	21.91	21.91	21.86			
16QAM	1	0	21.87	22.03	21.95	3.27	25.30	33.00
	1	7	21.97	22.00	21.86			
	1	14	21.85	21.92	21.79			
	8	0	21.03	20.93	20.93			
	8	4	21.04	20.95	20.95			
	8	7	21.01	20.88	20.90			
	15	0	20.94	20.91	20.90			

LTE Band 2 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18625	18900	19175			
			1852.5MHz	1880.0MHz	1907.5MHz			
QPSK	1	0	22.84	22.81	22.72	3.27	26.24	33.00
	1	12	22.97	22.96	22.89			
	1	24	22.78	22.78	22.73			
	12	0	21.92	21.88	21.81			
	12	6	21.94	21.93	21.85			
	12	11	21.92	21.89	21.84			
	25	0	21.90	21.85	21.80			
16QAM	1	0	22.08	21.94	22.01	3.27	25.41	33.00
	1	12	22.14	22.09	21.85			
	1	24	22.04	21.79	21.97			
	12	0	20.92	20.92	20.83			
	12	6	20.95	20.95	20.87			
	12	11	20.94	21.00	20.82			
	25	0	20.93	20.98	20.90			
LTE Band 2 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18650	18900	19150			
			1855.0MHz	1880.0MHz	1905.0MHz			
QPSK	1	0	22.93	22.83	22.89	3.27	26.33	33.00
	1	24	23.04	22.96	23.06			
	1	49	22.87	22.83	22.87			
	25	0	22.05	21.89	21.92			
	25	12	22.00	21.89	21.95			
	25	24	22.02	21.92	21.86			
	50	0	21.98	21.96	21.91			
16QAM	1	0	22.06	21.98	22.07	3.27	25.42	33.00
	1	24	22.15	22.04	22.13			
	1	49	22.03	21.86	22.02			
	25	0	21.05	20.95	21.06			
	25	12	21.05	20.95	21.06			
	25	24	21.08	20.96	20.95			
	50	0	21.04	20.99	20.94			

LTE Band 2 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18675	18900	19125			
			1857.5MHz	1880.0MHz	1902.5MHz			
QPSK	1	0	22.90	22.93	22.88	3.27	26.30	33.00
	1	37	22.94	23.03	22.90			
	1	74	22.79	22.84	22.81			
	36	0	21.96	22.06	22.04			
	36	16	22.01	22.08	22.02			
	36	35	22.03	21.94	21.89			
	75	0	21.95	22.04	21.92			
16QAM	1	0	22.08	21.95	22.01	3.27	25.41	33.00
	1	37	22.14	22.07	22.01			
	1	74	22.05	21.91	21.95			
	36	0	21.08	21.05	21.04			
	36	16	20.97	20.93	21.03			
	36	35	21.09	21.08	20.88			
	75	0	20.97	21.02	20.91			
LTE Band 2 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18700	18900	19100			
			1860.0MHz	1880.0MHz	1900.0MHz			
QPSK	1	0	23.08	22.93	22.98	3.27	26.43	33.00
	1	49	23.16	23.01	23.13			
	1	99	22.91	22.94	22.86			
	50	0	21.94	22.01	21.95			
	50	24	21.94	22.03	21.93			
	50	49	21.90	22.09	21.79			
	100	0	21.95	22.05	21.88			
16QAM	1	0	21.93	22.02	21.98	3.27	25.40	33.00
	1	49	22.06	22.11	22.13			
	1	99	22.09	22.01	22.02			
	50	0	21.00	21.01	20.98			
	50	24	21.03	21.05	20.98			
	50	49	20.96	21.08	20.82			
	100	0	20.99	21.01	20.90			

LTE Band 4 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19957	20175	20393			
			1710.7MHz	1732.5MHz	1754.3MHz			
QPSK	1	0	22.78	22.80	22.77	3.47	26.35	30.00
	1	2	22.88	22.83	22.85			
	1	5	22.75	22.72	22.67			
	3	0	21.85	21.79	21.79			
	3	1	21.86	21.79	21.80			
	3	2	21.81	21.82	21.79			
	6	0	21.73	21.72	21.74			
16QAM	1	0	21.76	21.71	21.74	3.47	25.43	30.00
	1	2	21.90	21.81	21.96			
	1	5	21.71	21.64	21.75			
	3	0	21.03	20.79	20.73			
	3	1	20.83	20.84	20.76			
	3	2	21.05	20.91	20.81			
	6	0	20.87	20.75	20.74			
LTE Band 4 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19965	20175	20385			
			1711.5MHz	1732.5MHz	1753.5MHz			
QPSK	1	0	22.60	22.69	22.49	3.47	26.28	30.00
	1	7	22.67	22.81	22.52			
	1	14	22.59	22.69	22.52			
	8	0	21.59	21.71	21.55			
	8	4	21.61	21.74	21.63			
	8	7	21.58	21.70	21.41			
	15	0	21.57	21.67	21.40			
16QAM	1	0	21.55	21.69	21.65	3.47	25.16	30.00
	1	7	21.67	21.58	21.44			
	1	14	21.52	21.61	21.52			
	8	0	20.68	20.70	20.65			
	8	4	20.67	20.70	20.61			
	8	7	20.61	20.67	20.54			
	15	0	20.67	20.68	20.48			

LTE Band 4 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19975	20175	20375			
			1712.5MHz	1732.5MHz	1752.5MHz			
QPSK	1	0	22.67	22.69	22.68	3.47	26.20	30.00
	1	12	22.73	22.68	22.73			
	1	24	22.53	22.60	22.59			
	12	0	21.69	21.62	21.66			
	12	6	21.69	21.68	21.64			
	12	11	21.63	21.66	21.69			
	25	0	21.62	21.68	21.70			
16QAM	1	0	21.52	21.64	21.64	3.47	25.26	30.00
	1	12	21.57	21.79	21.62			
	1	24	21.69	21.74	21.58			
	12	0	20.67	20.71	20.68			
	12	6	20.67	20.65	20.67			
	12	11	20.64	20.70	20.68			
	25	0	20.72	20.69	20.71			
LTE Band 4 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20000	20175	20350			
			1715.0MHz	1732.5MHz	1750.0MHz			
QPSK	1	0	22.73	22.77	22.74	3.47	26.27	30.00
	1	24	22.79	22.79	22.80			
	1	49	22.71	22.70	22.73			
	25	0	21.67	21.79	21.72			
	25	12	21.74	21.80	21.74			
	25	24	21.65	21.72	21.75			
	50	0	21.66	21.73	21.75			
16QAM	1	0	21.79	21.57	21.72	3.47	25.39	30.00
	1	24	21.75	21.85	21.92			
	1	49	21.64	21.67	21.66			
	25	0	20.77	20.82	20.80			
	25	12	20.76	20.83	20.82			
	25	24	20.70	20.81	20.87			
	50	0	20.68	20.75	20.76			

LTE Band 4 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20025	20175	20325			
			1717.5MHz	1732.5MHz	1747.5MHz			
QPSK	1	0	22.73	22.69	22.74	3.47	26.27	30.00
	1	37	22.76	22.78	22.80			
	1	74	22.66	22.67	22.69			
	36	0	21.72	21.76	21.83			
	36	16	21.70	21.68	21.82			
	36	35	21.65	21.69	21.73			
	75	0	21.77	21.65	21.80			
16QAM	1	0	21.79	21.92	21.78	3.47	25.39	30.00
	1	37	21.77	21.80	21.89			
	1	74	21.64	21.64	21.71			
	36	0	20.84	20.69	20.77			
	36	16	20.82	20.75	20.82			
	36	35	20.77	20.69	20.81			
	75	0	20.75	20.63	20.80			
LTE Band 4 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20050	20175	20300			
			1720.0MHz	1732.5MHz	1745.0MHz			
QPSK	1	0	22.87	22.94	22.72	3.47	26.41	30.00
	1	49	22.86	22.87	22.65			
	1	99	22.82	22.66	22.67			
	50	0	21.67	21.69	21.73			
	50	24	21.67	21.71	21.61			
	50	49	21.59	21.77	21.73			
	100	0	21.60	21.72	21.65			
16QAM	1	0	21.93	21.78	21.79	3.47	25.56	30.00
	1	49	22.09	21.81	21.88			
	1	99	21.80	21.76	21.83			
	50	0	20.66	20.77	20.78			
	50	24	20.68	20.88	20.84			
	50	49	20.58	20.80	20.85			
	100	0	20.67	20.74	20.77			

LTE Band 5 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20407	20525	20643			
			824.7MHz	836.5MHz	848.3MHz			
QPSK	1	0	23.13	23.12	23.13	-1.60	19.47	38.45
	1	2	23.22	23.06	23.14			
	1	5	23.06	23.10	23.02			
	3	0	22.15	22.19	22.30			
	3	1	22.21	22.27	22.29			
	3	2	22.11	21.17	22.23			
	6	0	22.17	22.15	22.18			
16QAM	1	0	22.16	22.15	22.06	-1.60	18.46	38.45
	1	2	22.17	22.11	22.16			
	1	5	22.09	22.21	22.11			
	3	0	21.17	21.07	21.11			
	3	1	21.20	21.13	21.15			
	3	2	21.11	21.05	21.09			
	6	0	21.13	21.09	21.08			
LTE Band 5 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20415	20525	20635			
			825.5MHz	836.5MHz	847.5MHz			
QPSK	1	0	22.98	22.98	23.09	-1.60	19.41	38.45
	1	7	22.94	23.15	23.10			
	1	14	22.90	23.00	23.16			
	8	0	22.02	22.12	22.11			
	8	4	21.96	22.04	22.04			
	8	7	21.89	22.07	22.14			
	15	0	21.86	22.02	22.13			
16QAM	1	0	22.16	22.06	22.14	-1.60	18.41	38.45
	1	7	22.15	22.15	22.05			
	1	14	22.09	22.01	22.08			
	8	0	21.04	21.09	21.11			
	8	4	21.13	21.11	21.10			
	8	7	20.92	21.05	21.06			
	15	0	20.97	21.06	21.09			

LTE Band 5 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20425	20525	20625			
			826.5MHz	836.5MHz	846.5MHz			
QPSK	1	0	23.09	23.05	23.02	-1.60	19.45	38.45
	1	12	23.20	23.12	23.10			
	1	24	23.05	22.99	23.05			
	12	0	22.06	22.06	22.07			
	12	6	22.06	22.10	22.10			
	12	11	22.06	22.09	22.03			
	25	0	22.02	22.04	22.04			
16QAM	1	0	22.12	22.03	21.99	-1.60	18.45	38.45
	1	12	22.20	22.13	22.13			
	1	24	22.09	22.01	22.00			
	12	0	21.12	21.05	21.15			
	12	6	21.09	21.17	21.11			
	12	11	21.15	21.04	21.02			
	25	0	21.03	21.10	21.12			
LTE Band 5 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20450	20525	20600			
			829.0MHz	836.5MHz	844.0MHz			
QPSK	1	0	23.19	23.09	23.06	-1.60	19.44	38.45
	1	24	23.13	23.15	23.11			
	1	49	23.06	23.08	23.12			
	25	0	22.04	22.10	22.13			
	25	12	22.05	22.07	22.14			
	25	24	22.08	22.13	22.05			
	50	0	22.06	22.08	22.01			
16QAM	1	0	22.08	22.12	22.08	-1.60	18.45	38.45
	1	24	22.15	22.20	22.14			
	1	49	22.13	22.15	22.05			
	25	0	21.09	21.17	21.16			
	25	12	21.07	21.15	21.15			
	25	24	21.12	21.17	21.06			
	50	0	21.05	21.12	21.06			

LTE Band 7 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20775	21100	21425			
			2502.5MHz	2535.0MHz	2567.5MHz			
QPSK	1	0	19.51	19.46	19.66	2.88	22.61	33.00
	1	12	19.64	19.58	19.73			
	1	24	19.42	19.50	19.60			
	12	0	18.44	18.59	18.68			
	12	6	18.52	18.60	18.68			
	12	11	18.47	18.55	18.67			
	25	0	18.44	18.54	18.69			
16QAM	1	0	18.55	18.75	18.54	2.88	21.74	33.00
	1	12	18.65	18.86	18.67			
	1	24	18.54	18.77	18.50			
	12	0	17.54	17.56	17.71			
	12	6	17.56	17.62	17.75			
	12	11	17.45	17.60	17.73			
	25	0	17.32	17.62	17.67			
LTE Band 7 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20800	21100	21400			
			2505.0MHz	2535.0MHz	2565.0MHz			
QPSK	1	0	19.49	19.46	19.64	2.88	22.61	33.00
	1	24	19.61	19.69	19.73			
	1	49	19.45	19.57	19.63			
	25	0	18.56	18.61	18.73			
	25	12	18.44	18.57	18.71			
	25	24	18.47	18.59	18.70			
	50	0	18.37	18.58	18.66			
16QAM	1	0	18.58	18.55	18.64	2.88	21.66	33.00
	1	24	18.62	18.69	18.78			
	1	49	18.39	18.66	18.71			
	25	0	17.63	17.73	17.81			
	25	12	17.61	17.74	17.79			
	25	24	17.64	17.75	17.87			
	50	0	17.59	17.68	17.83			

LTE Band 7 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20825	21100	21375			
			2507.5MHz	2535.0MHz	2562.5MHz			
QPSK	1	0	19.68	19.43	19.65	2.88	22.59	33.00
	1	37	19.54	19.55	19.71			
	1	74	19.51	19.45	19.55			
	36	0	18.51	18.62	18.52			
	36	16	18.61	18.64	18.70			
	36	35	18.62	18.58	18.74			
	75	0	18.46	18.53	18.67			
16QAM	1	0	18.47	18.53	18.62	2.88	21.58	33.00
	1	37	18.51	18.64	18.70			
	1	74	18.46	18.55	18.46			
	36	0	17.65	17.52	17.54			
	36	16	17.58	17.51	17.62			
	36	35	17.49	17.56	17.65			
	75	0	17.35	17.45	17.73			
LTE Band 7 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20850	21100	21350			
			2510.0MHz	2535.0MHz	2560.0MHz			
QPSK	1	0	19.66	19.65	19.55	2.88	22.61	33.00
	1	49	19.52	19.71	19.73			
	1	99	19.69	19.50	19.56			
	50	0	18.43	18.55	18.66			
	50	24	18.41	18.55	18.64			
	50	49	18.36	18.51	18.69			
	100	0	18.38	18.56	18.72			
16QAM	1	0	18.54	18.59	18.60	2.88	21.67	33.00
	1	49	18.69	18.66	18.79			
	1	99	18.62	18.75	18.57			
	50	0	17.51	17.57	17.65			
	50	24	17.46	17.60	17.67			
	50	49	17.49	17.57	17.78			
	100	0	17.41	17.66	17.58			

LTE Band 12 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23017	23095	23173			
			699.7MHz	707.5MHz	715.3MHz			
QPSK	1	0	22.98	22.75	22.94	-3.75	17.17	33.77
	1	2	23.07	22.82	22.98			
	1	5	23.02	22.72	22.88			
	3	0	22.06	21.90	22.00			
	3	1	22.04	21.89	22.01			
	3	2	22.07	21.91	22.03			
	6	0	22.02	21.85	21.96			
16QAM	1	0	22.01	21.94	22.06	-3.75	16.23	33.77
	1	2	22.13	22.03	22.11			
	1	5	22.05	21.96	22.03			
	3	0	21.11	21.05	21.18			
	3	1	21.07	21.02	21.19			
	3	2	21.12	21.06	21.12			
	6	0	20.93	21.02	21.04			
LTE Band 12 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23025	23095	23165			
			700.5MHz	707.5MHz	714.5MHz			
QPSK	1	0	22.99	23.01	23.07	-3.75	17.26	33.77
	1	7	23.04	23.12	23.16			
	1	14	23.01	23.02	23.13			
	8	0	22.03	22.09	22.14			
	8	4	22.05	22.09	22.11			
	8	7	22.00	22.15	22.09			
	15	0	21.99	22.14	22.13			
16QAM	1	0	22.17	22.05	22.09	-3.75	17.07	33.77
	1	7	22.18	22.06	21.95			
	1	14	22.20	22.97	22.02			
	8	0	20.98	21.01	21.06			
	8	4	21.03	21.08	21.05			
	8	7	21.06	20.97	20.97			
	15	0	20.93	20.95	21.08			

LTE Band 12 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23035	23095	23155			
			701.5MHz	707.5MHz	713.5MHz			
QPSK	1	0	22.90	22.92	22.91	-3.75	17.17	33.77
	1	12	23.00	23.07	23.06			
	1	24	22.96	22.96	22.93			
	12	0	22.01	22.07	22.11			
	12	6	21.95	22.07	22.11			
	12	11	22.03	22.12	21.98			
	25	0	21.99	22.12	22.02			
16QAM	1	0	21.98	22.20	22.11	-3.75	16.30	33.77
	1	12	22.16	22.09	22.15			
	1	24	22.08	22.14	22.13			
	12	0	21.09	20.97	21.11			
	12	6	21.07	21.06	21.06			
	12	11	21.13	21.02	20.97			
	25	0	21.04	21.06	21.04			
LTE Band 12 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23060	23095	23130			
			704.0MHz	707.5MHz	711.0MHz			
QPSK	1	0	22.94	22.97	23.19	-3.75	17.31	33.77
	1	24	23.05	23.11	23.17			
	1	49	22.84	22.92	23.21			
	25	0	22.08	22.11	22.15			
	25	12	22.03	22.04	22.16			
	25	24	22.02	22.13	22.14			
	50	0	22.05	22.11	22.13			
16QAM	1	0	21.94	22.05	22.04	-3.75	16.30	33.77
	1	24	22.20	22.14	22.12			
	1	49	22.03	22.07	22.05			
	25	0	21.04	21.11	21.17			
	25	12	21.12	21.05	21.05			
	25	24	21.09	21.08	21.06			
	50	0	21.11	21.04	21.08			

LTE Band 17 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23755	23790	23825			
			706.5MHz	710.0MHz	713.5MHz			
QPSK	1	0	22.89	22.88	22.89	-3.75	17.14	33.77
	1	12	23.01	22.98	23.04			
	1	24	22.85	22.89	22.92			
	12	0	22.04	21.93	22.06			
	12	6	22.01	21.98	22.01			
	12	11	22.07	22.04	21.98			
	25	0	22.02	21.97	21.97			
16QAM	1	0	22.00	22.10	22.09	-3.75	16.34	33.77
	1	12	22.13	22.24	22.24			
	1	24	22.02	22.10	22.15			
	12	0	20.99	20.96	21.10			
	12	6	21.02	21.02	21.11			
	12	11	21.09	21.06	20.98			
	25	0	21.14	21.05	21.00			
LTE Band 17 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23780	23790	23800			
			709.0MHz	710.0MHz	711.0MHz			
QPSK	1	0	22.92	22.95	22.88	-3.75	17.15	33.77
	1	24	23.05	22.84	23.01			
	1	49	22.84	22.97	22.92			
	25	0	21.90	21.83	21.82			
	25	12	21.89	21.88	21.84			
	25	24	21.98	21.84	21.77			
	50	0	21.92	21.81	21.84			
16QAM	1	0	22.11	22.09	22.10	-3.75	16.26	33.77
	1	24	22.16	22.13	22.11			
	1	49	22.05	22.06	22.07			
	25	0	21.11	21.05	21.07			
	25	12	21.12	21.08	21.06			
	25	24	21.18	21.05	21.02			
	50	0	21.12	20.99	21.05			

LTE Band 25 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26047	26365	26683			
			1850.7MHz	1882.5MHz	1914.3MHz			
QPSK	1	0	22.96	22.89	22.85	3.27	26.42	33.00
	1	2	23.11	23.15	23.06			
	1	5	22.97	22.92	22.88			
	3	0	22.02	21.99	21.95			
	3	1	21.99	21.98	21.98			
	3	2	22.06	22.01	21.87			
	6	0	22.01	21.95	21.86			
16QAM	1	0	21.98	21.96	21.95	3.27	25.38	33.00
	1	2	22.11	22.09	22.09			
	1	5	22.00	21.99	21.97			
	3	0	21.09	21.04	21.05			
	3	1	21.04	21.05	21.03			
	3	2	21.02	21.02	21.06			
	6	0	21.05	21.03	20.98			
LTE Band 25 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26055	26365	26675			
			1851.5MHz	1882.5MHz	1913.5MHz			
QPSK	1	0	22.87	22.81	22.90	3.27	26.22	33.00
	1	7	22.95	22.93	22.85			
	1	14	22.83	22.82	22.87			
	8	0	21.87	21.90	21.92			
	8	4	21.82	21.94	21.90			
	8	7	21.74	21.91	21.87			
	15	0	21.78	21.94	21.88			
16QAM	1	0	21.89	21.90	22.03	3.27	25.30	33.00
	1	7	21.95	22.01	21.99			
	1	14	21.84	21.90	21.94			
	8	0	21.96	20.99	21.08			
	8	4	21.91	21.02	21.03			
	8	7	21.89	21.93	21.05			
	15	0	20.88	21.01	20.95			

LTE Band 25 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26065	26365	26665			
			1852.5MHz	1882.5MHz	1912.5MHz			
QPSK	1	0	22.87	22.81	22.89	3.27	27.16	33.00
	1	12	22.99	22.93	23.02			
	1	24	22.84	22.84	23.89			
	12	0	21.96	21.91	21.80			
	12	6	22.02	21.91	21.81			
	12	11	21.96	21.90	21.81			
	25	0	21.95	21.88	21.75			
16QAM	1	0	21.93	21.85	21.89	3.27	25.30	33.00
	1	12	22.01	22.03	21.98			
	1	24	21.96	21.86	21.85			
	12	0	20.97	20.93	20.84			
	12	6	21.00	20.95	20.85			
	12	11	20.95	20.90	20.80			
	25	0	21.04	20.97	20.89			
LTE Band 25 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26090	26365	26640			
			1855.0MHz	1882.5MHz	1910.0MHz			
QPSK	1	0	22.95	22.86	22.89	3.27	26.33	33.00
	1	24	23.06	23.04	22.91			
	1	49	22.93	22.86	22.82			
	25	0	22.05	21.99	21.91			
	25	12	22.03	21.97	21.93			
	25	24	22.00	21.91	21.84			
	50	0	22.00	21.95	21.88			
16QAM	1	0	21.98	21.92	21.89	3.27	25.43	33.00
	1	24	22.16	22.09	22.01			
	1	49	21.99	21.93	21.78			
	25	0	21.16	21.11	21.00			
	25	12	21.13	21.12	21.03			
	25	24	21.11	21.04	20.93			
	50	0	21.05	21.02	20.92			

LTE Band 25 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26115	26365	26615			
			1857.5MHz	1882.5MHz	1907.5MHz			
QPSK	1	0	22.92	22.90	22.79	3.27	26.24	33.00
	1	37	22.97	22.97	22.94			
	1	74	22.81	22.88	22.87			
	36	0	21.79	21.84	21.97			
	36	16	21.77	21.83	21.99			
	36	35	21.82	21.86	21.88			
	75	0	21.74	21.86	21.84			
16QAM	1	0	22.04	22.05	22.03	3.27	25.38	33.00
	1	37	22.11	21.97	22.08			
	1	74	21.98	22.04	21.94			
	36	0	21.04	20.98	21.05			
	36	16	21.09	21.01	21.02			
	36	35	20.99	20.97	20.97			
	75	0	21.06	21.89	21.00			
LTE Band 25 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26140	26365	26590			
			1860.0MHz	1882.5MHz	1905.0MHz			
QPSK	1	0	22.94	23.05	22.98	3.27	26.38	33.00
	1	49	23.01	23.07	23.11			
	1	99	22.88	22.96	22.72			
	50	0	22.02	22.03	21.89			
	50	24	21.99	21.97	21.86			
	50	49	21.86	21.87	21.72			
	100	0	21.97	21.94	21.84			
16QAM	1	0	22.12	22.01	22.08	3.27	25.40	33.00
	1	49	22.03	22.12	22.13			
	1	99	22.05	22.03	22.04			
	50	0	20.99	21.01	21.03			
	50	24	21.03	21.10	20.88			
	50	49	20.96	20.92	20.96			
	100	0	21.02	20.99	20.85			

LTE Band 26 (Part 90) - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26697	26740	26783			
			814.7MHz	819.0MHz	823.3MHz			
QPSK	1	0	23.08	23.09	23.03	-1.60	19.43	50.00
	1	2	23.14	23.17	23.18			
	1	5	23.05	23.02	23.10			
	3	0	22.16	22.10	22.12			
	3	1	22.14	22.01	22.08			
	3	2	22.12	22.03	22.07			
	6	0	22.15	22.02	22.11			
16QAM	1	0	22.11	22.02	22.09	-1.60	18.41	50.00
	1	2	22.13	22.16	22.15			
	1	5	22.04	22.02	22.12			
	3	0	21.11	21.04	21.09			
	3	1	21.12	21.08	21.03			
	3	2	21.07	21.11	21.06			
	6	0	21.13	21.07	21.06			
LTE Band 26 (Part 90) - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26705	26740	26775			
			815.5MHz	819.0MHz	822.5MHz			
QPSK	1	0	23.05	23.11	23.16	-1.60	19.41	50.00
	1	7	23.09	23.14	23.16			
	1	14	23.12	23.14	23.15			
	8	0	22.11	22.12	22.17			
	8	4	22.08	22.10	22.16			
	8	7	22.05	22.12	22.14			
	15	0	22.06	22.10	22.09			
16QAM	1	0	22.06	22.18	22.20	-1.60	18.46	50.00
	1	7	22.07	22.21	22.16			
	1	14	22.13	22.15	22.18			
	8	0	21.09	21.07	21.08			
	8	4	21.12	21.09	21.11			
	8	7	21.04	21.07	21.05			
	15	0	21.03	21.05	21.02			

LTE Band 26 (Part 90) - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26715	26740	26765			
			816.5MHz	819.0MHz	821.5MHz			
QPSK	1	0	23.03	22.96	23.08	-1.60	19.44	50.00
	1	12	23.12	23.19	23.19			
	1	24	23.03	23.05	23.11			
	12	0	22.11	22.11	22.10			
	12	6	22.10	22.12	22.08			
	12	11	22.11	22.08	22.09			
	25	0	22.10	22.11	22.10			
16QAM	1	0	22.15	22.05	22.17	-1.60	18.46	50.00
	1	12	22.09	22.11	22.21			
	1	24	22.07	22.12	22.12			
	12	0	21.12	21.11	21.12			
	12	6	21.08	21.15	21.09			
	12	11	21.09	21.08	21.08			
	25	0	21.06	21.09	21.07			
LTE Band 26 (Part 90) - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			/	26740	/			
			/	819.0MHz	/			
QPSK	1	0	/	23.16	/	-1.60	19.45	50.00
	1	24	/	23.17	/			
	1	49	/	23.20	/			
	25	0	/	22.16	/			
	25	12	/	22.16	/			
	25	24	/	22.12	/			
	50	0	/	22.15	/			
16QAM	1	0	/	22.13	/	-1.60	18.44	50.00
	1	24	/	22.19	/			
	1	49	/	22.11	/			
	25	0	/	21.06	/			
	25	12	/	21.10	/			
	25	24	/	21.02	/			
	50	0	/	21.06	/			

LTE Band 26 (Part 22) - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26797	26915	27033			
			824.7MHz	836.5MHz	848.3MHz			
QPSK	1	0	23.11	22.99	23.06	-1.60	19.41	38.45
	1	2	23.15	23.08	23.13			
	1	5	23.13	23.00	23.16			
	3	0	22.13	22.09	22.16			
	3	1	22.11	22.12	22.15			
	3	2	22.10	22.06	22.12			
	6	0	22.07	22.03	22.08			
16QAM	1	0	22.05	22.02	22.08	-1.60	18.42	38.45
	1	2	22.17	22.12	22.15			
	1	5	22.08	22.02	22.04			
	3	0	21.22	21.15	21.09			
	3	1	21.19	21.11	21.16			
	3	2	21.13	21.12	21.24			
	6	0	21.06	21.08	21.15			
LTE Band 26 (Part 22) - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26805	26915	27025			
			825.5MHz	836.5MHz	847.5MHz			
QPSK	1	0	23.12	23.15	23.01	-1.60	19.40	38.45
	1	7	23.04	23.13	23.08			
	1	14	23.05	23.07	22.94			
	8	0	22.11	22.12	22.08			
	8	4	22.12	22.14	22.09			
	8	7	22.04	22.07	22.04			
	15	0	22.09	22.11	21.96			
16QAM	1	0	22.08	22.13	22.02	-1.60	18.46	38.45
	1	7	22.16	22.12	22.09			
	1	14	22.17	22.21	21.98			
	8	0	21.12	21.25	21.05			
	8	4	21.20	21.17	21.07			
	8	7	21.21	21.16	21.09			
	15	0	21.12	21.15	20.96			

LTE Band 26 (Part 22) - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26815	26915	27015			
			826.5MHz	836.5MHz	846.5MHz			
QPSK	1	0	23.02	22.96	23.03	-1.60	19.45	38.45
	1	12	23.20	23.11	23.07			
	1	24	23.02	23.00	23.05			
	12	0	22.06	22.11	22.13			
	12	6	22.02	22.02	22.12			
	12	11	22.04	22.08	22.00			
	25	0	22.02	22.04	22.06			
16QAM	1	0	22.09	22.05	22.16	-1.60	18.43	38.45
	1	12	22.13	22.14	22.18			
	1	24	22.03	20.02	22.09			
	12	0	21.05	21.05	21.19			
	12	6	21.02	21.09	21.16			
	12	11	21.06	21.03	21.06			
	25	0	21.02	21.04	21.09			
LTE Band 26 (Part 22) - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26840	26915	26990			
			829.0MHz	836.5MHz	844.0MHz			
QPSK	1	0	23.12	23.05	23.14	-1.60	19.43	38.45
	1	24	23.18	23.16	23.17			
	1	49	23.08	23.06	23.09			
	25	0	22.08	22.15	22.11			
	25	12	22.09	22.17	22.13			
	25	24	22.09	22.06	22.02			
	50	0	22.08	22.09	22.04			
16QAM	1	0	22.09	22.14	22.17	-1.60	18.42	38.45
	1	24	22.13	22.09	22.11			
	1	49	22.03	22.15	22.09			
	25	0	21.13	21.19	21.17			
	25	12	21.15	21.17	21.18			
	25	24	21.18	21.13	21.02			
	50	0	21.10	21.11	21.09			



LTE Band 26 (Part 22&) - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26865	26915	26965			
			831.5MHz	836.5MHz	841.5MHz			
QPSK	1	0	23.13	22.97	23.06	-1.60	19.38	38.45
	1	37	23.12	23.13	23.07			
	1	74	23.04	22.99	22.99			
	36	0	22.09	22.04	22.06			
	36	16	22.11	22.09	22.09			
	36	35	22.10	22.06	22.01			
	75	0	22.03	22.01	22.07			
16QAM	1	0	22.11	22.06	22.12	-1.60	18.42	38.45
	1	37	22.13	22.05	22.17			
	1	74	22.16	22.11	22.06			
	36	0	21.12	21.02	21.13			
	36	16	21.11	21.14	21.11			
	36	35	21.16	21.05	21.07			
	75	0	21.06	21.03	21.09			

LTE Band 41 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			40265	40740	41215			
			2557.5MHz	2605.0MHz	2652.5MHz			
QPSK	1	0	23.30	23.35	23.28	2.75	26.17	33.00
	1	12	23.37	23.42	23.27			
	1	24	23.31	23.35	23.31			
	12	0	22.24	22.26	22.32			
	12	6	22.35	22.35	22.33			
	12	11	22.19	22.24	22.21			
	25	0	22.23	22.25	22.29			
16QAM	1	0	22.26	22.31	22.27	2.75	25.17	33.00
	1	12	22.40	22.39	22.42			
	1	24	22.24	22.30	22.24			
	12	0	21.35	21.39	21.36			
	12	6	21.33	21.41	21.37			
	12	11	21.31	21.40	21.37			
	25	0	21.33	21.34	21.30			
LTE Band 41 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			40290	40740	41190			
			2560.0MHz	2605.0MHz	2650.0MHz			
QPSK	1	0	23.26	23.32	23.29	2.75	26.27	33.00
	1	24	23.46	23.52	23.48			
	1	49	23.25	23.30	23.28			
	25	0	22.28	22.31	22.25			
	25	12	22.30	22.21	22.25			
	25	24	22.23	22.30	22.22			
	50	0	22.21	22.23	22.13			
16QAM	1	0	22.29	22.33	22.25	2.75	25.21	33.00
	1	24	22.38	22.46	22.31			
	1	49	22.26	22.29	22.18			
	25	0	21.26	21.29	21.23			
	25	12	21.25	21.28	21.23			
	25	24	21.19	21.30	21.22			
	50	0	21.21	21.26	21.15			

LTE Band 41 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			40315	40740	41165			
			2562.5MHz	2605.0MHz	2647.5MHz			
QPSK	1	0	23.27	23.31	23.29	2.75	26.18	33.00
	1	37	23.33	23.43	23.39			
	1	74	23.23	23.27	23.27			
	36	0	22.33	22.29	22.28			
	36	16	22.31	22.28	22.27			
	36	35	22.29	22.28	22.20			
	75	0	22.21	22.23	22.21			
16QAM	1	0	22.32	22.22	22.26	2.75	25.13	33.00
	1	37	22.38	22.33	22.33			
	1	74	22.30	22.24	22.18			
	36	0	21.33	21.29	21.28			
	36	16	21.32	21.26	21.28			
	36	35	21.29	21.17	21.19			
	75	0	21.21	21.22	21.20			
LTE Band 41 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			40340	40740	41140			
			2565.0MHz	2605.0MHz	2645.0MHz			
QPSK	1	0	23.34	23.31	23.35	2.75	26.30	33.00
	1	49	23.43	23.55	23.47			
	1	99	23.23	23.35	23.30			
	50	0	22.27	22.36	22.33			
	50	24	22.29	22.34	22.30			
	50	49	22.26	22.32	22.23			
	100	0	22.22	22.27	22.28			
16QAM	1	0	22.29	22.41	22.31	2.75	25.50	33.00
	1	49	22.48	22.75	22.41			
	1	99	22.41	22.36	22.29			
	50	0	21.43	21.49	21.46			
	50	24	21.42	21.50	21.42			
	50	49	21.37	21.48	21.40			
	100	0	21.32	21.35	21.33			

LTE Band 7C:

LTE Band 7C - 10MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
10MHz / 20MHz	2505.5	2519.9	1	49	1	0	18.96	18.03
			50	0	100	0	16.86	15.91
	2525.6	2540.0	1	49	1	0	18.87	17.89
			50	0	100	0	16.95	15.92
	2545.6	2560.0	1	49	1	0	19.23	17.97
			50	0	100	0	17.22	16.22
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							19.96	18.76
EIRP Limit (dBm)							33.00	33.00

LTE Band 7C - 15MHz+10MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 10MHz	2507.5	2519.5	1	74	1	0	18.96	18.05
			75	0	50	0	17.02	15.98
	2530.1	2542.1	1	74	1	0	19.46	18.49
			75	0	50	0	18.13	17.07
	2552.7	2564.7	1	74	1	0	19.40	18.34
			75	0	50	0	18.29	17.12
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							20.19	19.22
EIRP Limit (dBm)							33.00	33.00

LTE Band 7C - 15MHz+15MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 15MHz	2507.5	2522.5	1	74	1	0	18.91	18.10
			75	0	75	0	17.26	16.12
	2527.5	2542.5	1	74	1	0	19.10	18.12
			75	0	75	0	17.12	16.07
	2547.5	2562.5	1	74	1	0	19.35	18.30
			75	0	75	0	17.36	16.34
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							20.08	19.03
EIRP Limit (dBm)							33.00	33.00

LTE Band 7C - 15MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 20MHz	2507.8	2524.9	1	74	1	0	18.98	18.38
			75	0	100	0	17.00	15.96
	2525.3	2542.4	1	74	1	0	18.99	17.96
			75	0	100	0	17.06	16.02
	2542.9	2560.0	1	74	1	0	19.31	18.43
			75	0	100	0	17.35	16.30
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							20.04	19.16
EIRP Limit (dBm)							33.00	33.00



LTE Band 7C - 20MHz+10MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 10MHz	2510.0	2524.4	1	99	1	0	18.97	18.40
			100	0	50	0	17.04	16.00
	2530.1	2544.5	1	99	1	0	19.24	18.30
			100	0	50	0	17.08	16.10
	2550.1	2564.5	1	99	1	0	19.42	18.43
			100	0	50	0	17.40	16.36
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							20.15	19.16
EIRP Limit (dBm)							33.00	33.00

LTE Band 7C - 20MHz+15MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 15MHz	2510.0	2527.1	1	99	1	0	18.95	18.09
			100	0	75	0	17.01	15.99
	2527.6	2544.7	1	99	1	0	19.18	18.26
			100	0	75	0	17.06	16.06
	2545.1	2562.2	1	99	1	0	19.37	18.42
			100	0	75	0	17.39	16.33
Antenna Gain (dBi)							2.88	2.88
Max. EIRP (dBm)							20.10	19.15
EIRP Limit (dBm)							33.00	33.00



LTE Band 7C - 20MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 20MHz	2510.0	2529.8	1	99	1	0	18.97	18.10
			1	0	1	99	10.40	9.58
			100	0	100	0	16.96	15.95
	2525.1	2544.9	1	99	1	0	19.08	18.14
			1	0	1	99	10.41	10.37
			100	0	100	0	17.02	16.01
	2540.2	2560.0	1	99	1	0	19.36	18.47
			1	0	1	99	11.97	10.33
			100	0	100	0	17.25	16.24
	Antenna Gain (dBi)							2.88
Max. EIRP (dBm)							20.09	19.20
EIRP Limit (dBm)							33.00	33.00

LTE Band 41C:

LTE Band 41C - 10MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
10MHz / 20MHz	2560.5	2574.9	1	49	1	0	22.86	22.05
			50	0	100	0	20.97	19.96
	2595.6	2610.0	1	49	1	0	23.03	21.94
			50	0	100	0	20.98	19.99
	2630.6	2645.0	1	49	1	0	23.28	21.93
			50	0	100	0	21.24	20.23
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.88	22.65
EIRP Limit (dBm)							33.00	33.00

LTE Band 41C - 15MHz+10MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 10MHz	2562.5	2574.5	1	74	1	0	23.17	22.25
			75	0	50	0	21.01	19.97
	2600.1	2612.1	1	74	1	0	23.08	21.99
			75	0	50	0	21.06	20.00
	2637.7	2649.7	1	74	1	0	23.35	22.17
			75	0	50	0	21.31	20.20
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.95	22.85
EIRP Limit (dBm)							33.00	33.00



LTE Band 41C - 15MHz+15MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 15MHz	2562.5	2577.5	1	74	1	0	23.07	22.00
			75	0	75	0	21.09	20.01
	2597.5	2612.5	1	74	1	0	23.17	21.92
			75	0	75	0	21.09	20.06
	2632.5	2647.5	1	74	1	0	23.23	22.24
			75	0	75	0	21.35	20.30
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.83	22.84
EIRP Limit (dBm)							33.00	33.00

LTE Band 41C - 15MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
15MHz / 20MHz	2562.8	2579.9	1	74	1	0	23.08	22.23
			75	0	100	0	20.97	19.96
	2595.4	2612.5	1	74	1	0	23.05	21.95
			75	0	100	0	21.01	20.03
	2627.9	2645.0	1	74	1	0	23.25	22.16
			75	0	100	0	21.27	20.27
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.85	22.83
EIRP Limit (dBm)							33.00	33.00



LTE Band 41C - 20MHz+10MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 10MHz	2565.0	2579.4	1	99	1	0	22.96	21.55
			100	0	50	0	21.03	20.03
	2600.1	2614.5	1	99	1	0	23.35	22.36
			100	0	50	0	21.14	20.16
	2635.1	2649.5	1	99	1	0	23.37	22.30
			100	0	50	0	21.29	20.31
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.97	22.96
EIRP Limit (dBm)							33.00	33.00

LTE Band 41C - 20MHz+15MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 15MHz	2565.0	2582.1	1	99	1	0	22.93	21.99
			100	0	75	0	20.94	19.94
	2597.6	2614.7	1	99	1	0	23.07	21.66
			100	0	75	0	21.03	20.00
	2630.1	2647.2	1	99	1	0	23.26	22.22
			100	0	75	0	21.18	20.18
Antenna Gain (dBi)							2.75	2.75
Max. EIRP (dBm)							23.86	22.82
EIRP Limit (dBm)							33.00	33.00



LTE Band 41C - 20MHz+20MHz Bandwidth								
Bandwidth	CC1 Frequency (MHz)	CC2 Frequency (MHz)	CC1 RB	CC1 RB	CC2 RB	CC2 RB	Conducted Average (dBm)	
			Size	Offset	Size	Offset	QPSK	16QAM
20MHz / 20MHz	2565.0	2584.8	1	99	1	0	22.96	22.09
			1	0	1	99	14.58	13.41
			100	0	100	0	21.16	20.19
	2595.1	2514.9	1	99	1	0	23.04	22.02
			1	0	1	99	16.34	14.43
			100	0	100	0	21.20	20.22
	2625.2	2645.0	1	99	1	0	23.18	22.17
			1	0	1	99	16.37	14.62
			100	0	100	0	21.41	20.43
	Antenna Gain (dBi)							2.75
Max. EIRP (dBm)							23.78	22.77
EIRP Limit (dBm)							33.00	33.00

Peak To Average Ratio

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	20	OneRB_high	Q16	4.61	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	5.68	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	4.51	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.73	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	4.24	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	5.72	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	5.31	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	6.12	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	6.01	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	6.28	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	6.00	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	5.99	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	4.35	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	4.32	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	4.74	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	5.92	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	4.75	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	4.76	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	4.68	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.70	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	4.20	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	4.15	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	3.04	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.07	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	5.56	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	6.38	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	5.11	13.00	Pass
FDD12	MidRange	10	fullRB	Q16	6.39	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	5.12	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	5.15	13.00	Pass

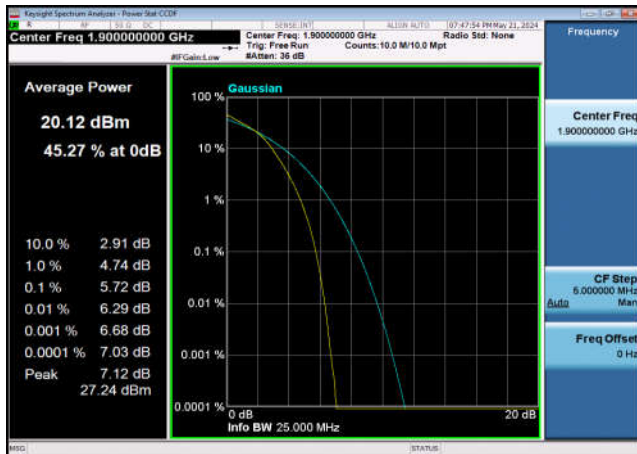


FDD17	LowRange	10	OneRB_high	Q16	5.41	13.00	Pass
FDD17	LowRange	10	fullRB	Q16	6.28	13.00	Pass
FDD17	MidRange	10	OneRB_high	Q16	5.66	13.00	Pass
FDD17	MidRange	10	fullRB	Q16	6.25	13.00	Pass
FDD17	HighRange	10	OneRB_high	Q16	5.12	13.00	Pass
FDD17	HighRange	10	fullRB	Q16	5.11	13.00	Pass
FDD25	LowRange	20	OneRB_high	Q16	4.52	13.00	Pass
FDD25	LowRange	20	fullRB	Q16	5.62	13.00	Pass
FDD25	MidRange	20	OneRB_high	Q16	4.73	13.00	Pass
FDD25	MidRange	20	fullRB	Q16	5.70	13.00	Pass
FDD25	HighRange	20	OneRB_high	Q16	4.29	13.00	Pass
FDD25	HighRange	20	fullRB	Q16	4.29	13.00	Pass
FDD26_Part 22	LowRange	15	OneRB_high	Q16	4.79	13.00	Pass
FDD26_Part 22	LowRange	15	fullRB	Q16	4.77	13.00	Pass
FDD26_Part 22	MidRange	15	OneRB_high	Q16	4.64	13.00	Pass
FDD26_Part 22	MidRange	15	fullRB	Q16	5.93	13.00	Pass
FDD26_Part 22	HighRange	15	OneRB_high	Q16	4.64	13.00	Pass
FDD26_Part 22	HighRange	15	fullRB	Q16	4.63	13.00	Pass
FDD26_Part 90	LowRange	10	OneRB_high	Q16	4.37	13.00	Pass
FDD26_Part 90	LowRange	10	fullRB	Q16	5.93	13.00	Pass
FDD26_Part 90	MidRange	10	OneRB_high	Q16	4.74	13.00	Pass
FDD26_Part 90	MidRange	10	fullRB	Q16	4.75	13.00	Pass
FDD26_Part 90	HighRange	10	OneRB_high	Q16	4.35	13.00	Pass
FDD26_Part 90	HighRange	10	fullRB	Q16	5.92	13.00	Pass
TDD41	LowRange	20	OneRB_high	Q16	6.22	13.00	Pass
TDD41	LowRange	20	fullRB	Q16	5.93	13.00	Pass
TDD41	MidRange	20	OneRB_high	Q16	5.97	13.00	Pass
TDD41	MidRange	20	fullRB	Q16	5.83	13.00	Pass
TDD41	HighRange	20	OneRB_high	Q16	5.54	13.00	Pass
TDD41	HighRange	20	fullRB	Q16	5.82	13.00	Pass

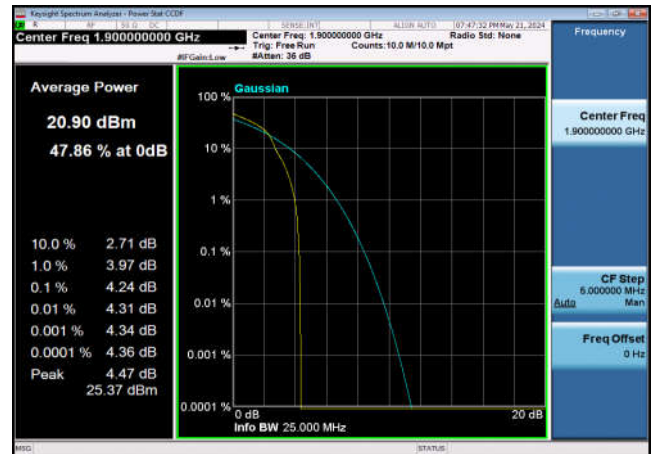


Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	6.73	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	7.31	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	6.73	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	7.29	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	6.73	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	7.35	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40340-40538	100RB#0-100RB#0	6.68	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40340-40538	100RB#0-100RB#0	7.34	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	6.72	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	7.34	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40942-41140	100RB#0-100RB#0	6.72	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40942-41140	100RB#0-100RB#0	7.21	13	PASS

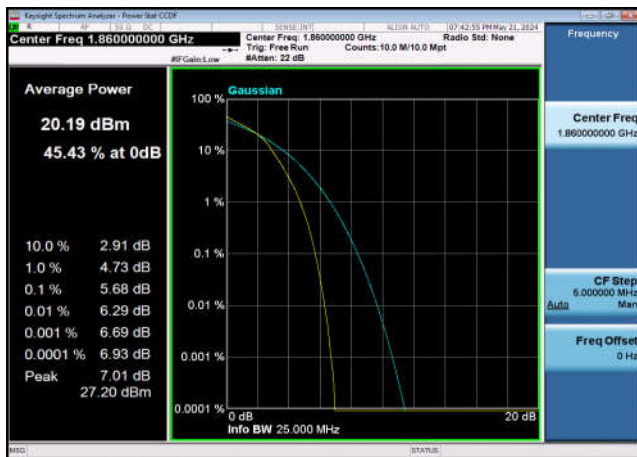
FDD02_HighRange_20MHz_1900_fullRB
_Q16



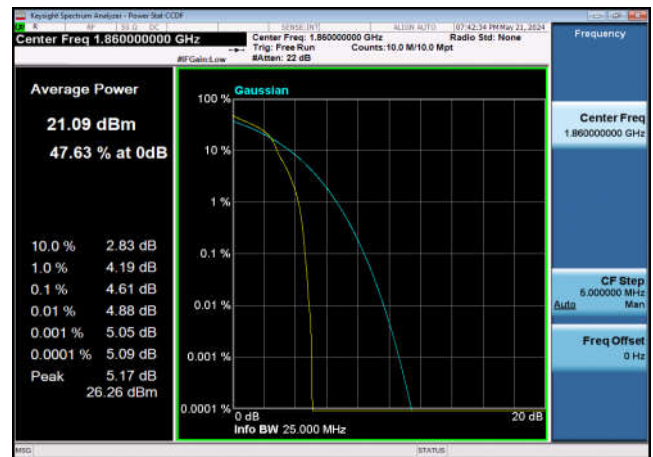
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_high_Q16



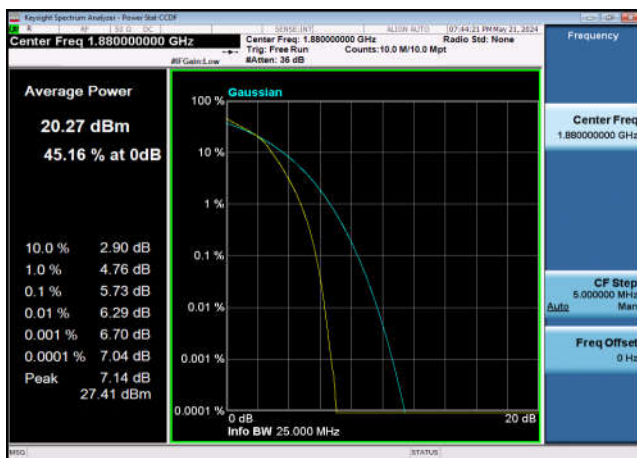
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_Q16



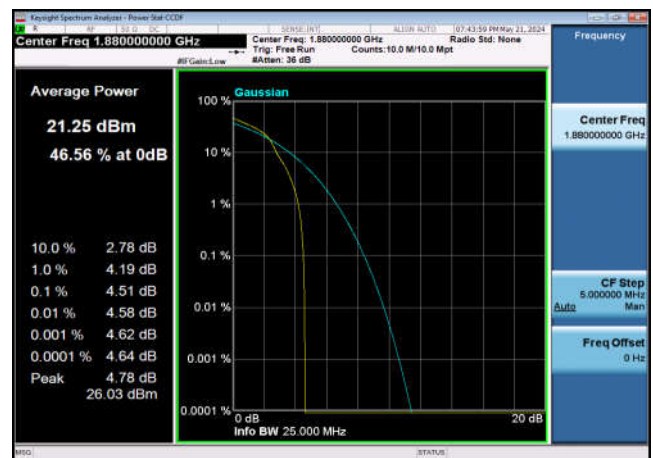
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_high_Q16



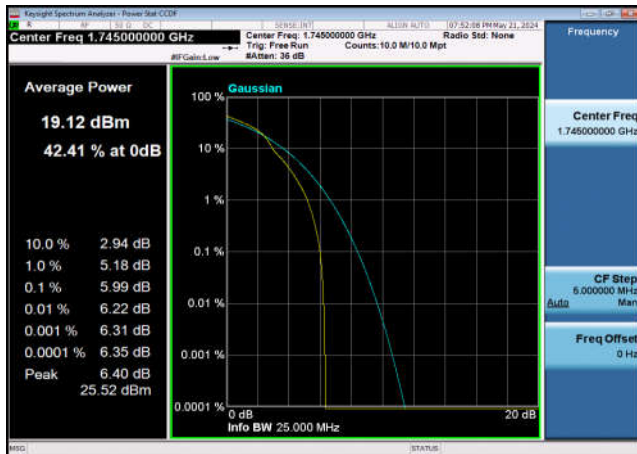
FDD02_MidRange_20MHz_1880_fullRB
_Q16



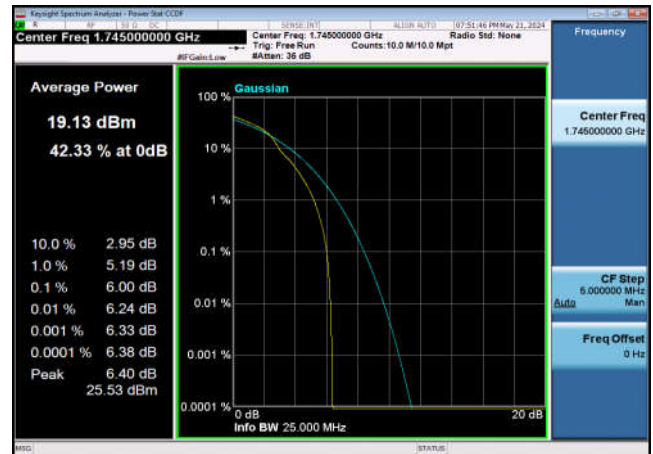
FDD02_MidRange_20MHz_1880_OneRB
_high_Q16



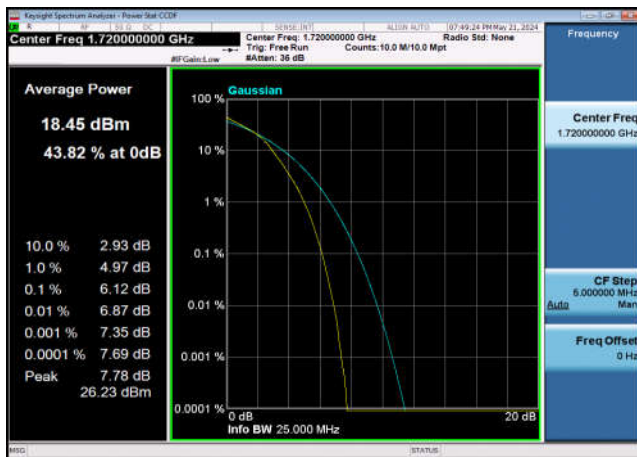
FDD04_HighRange_20MHz_1745_fullRB
_Q16



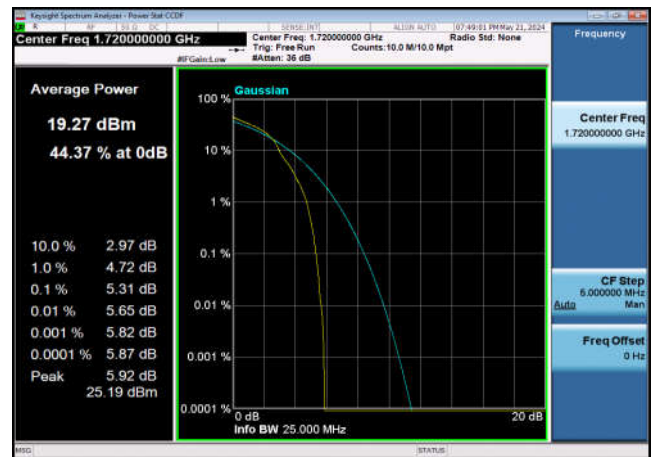
FDD04_HighRange_20MHz_1745_OneRB
_high_Q16



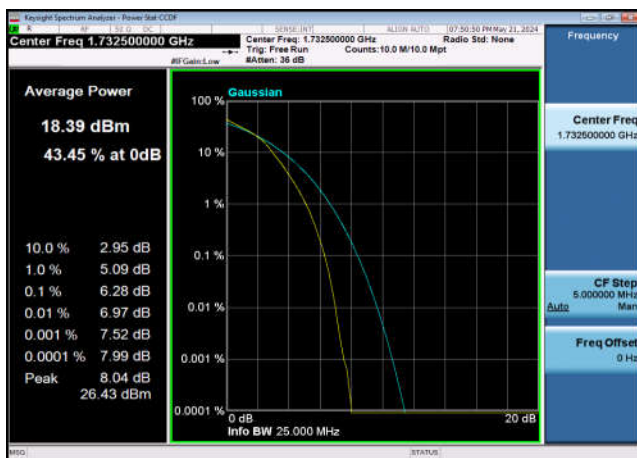
FDD04_LowRange_20MHz_1720_fullRB
_Q16



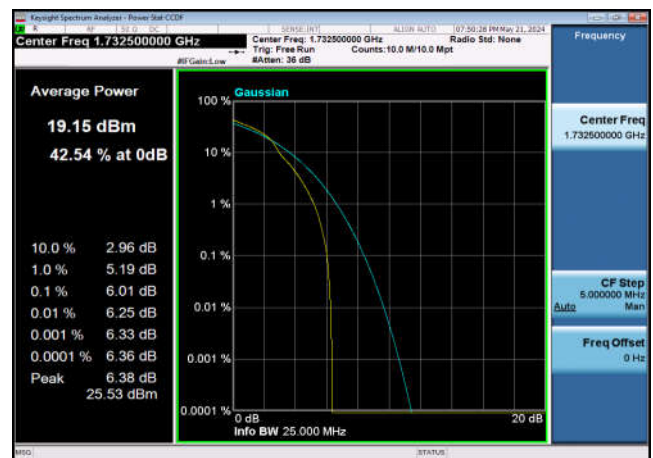
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_high_Q16



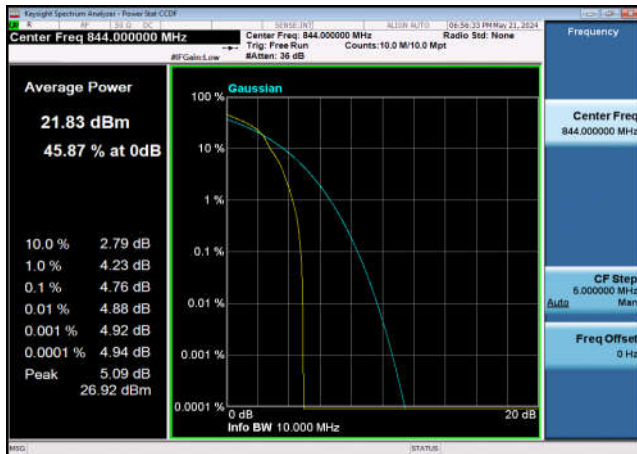
FDD04_MidRange_20MHz_1732.5_fullRB
_Q16



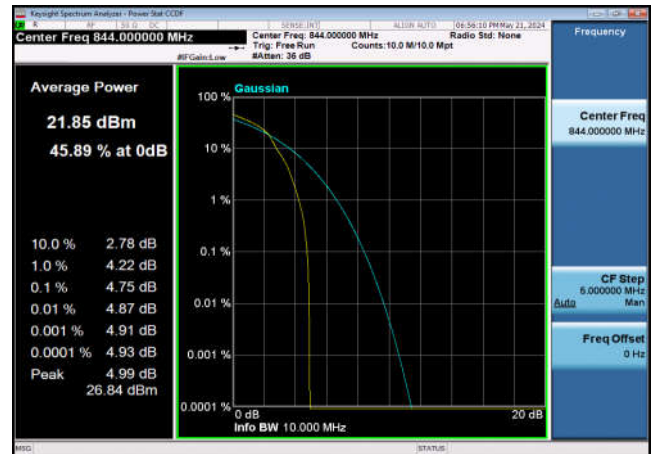
FDD04_MidRange_20MHz_1732.5_OneRB
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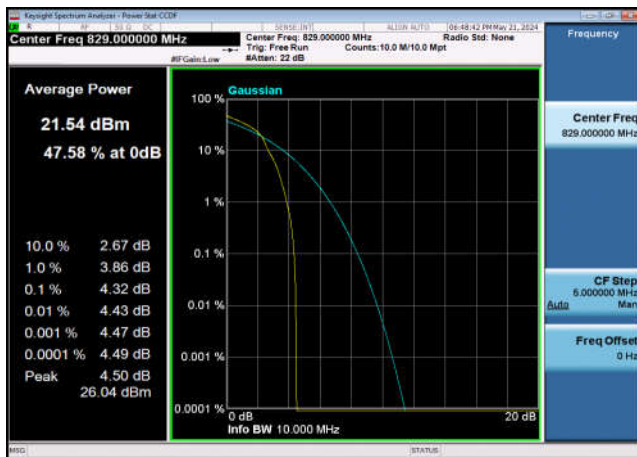
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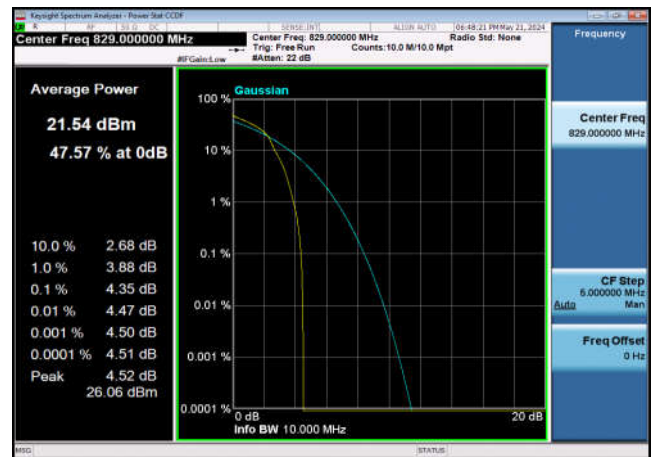
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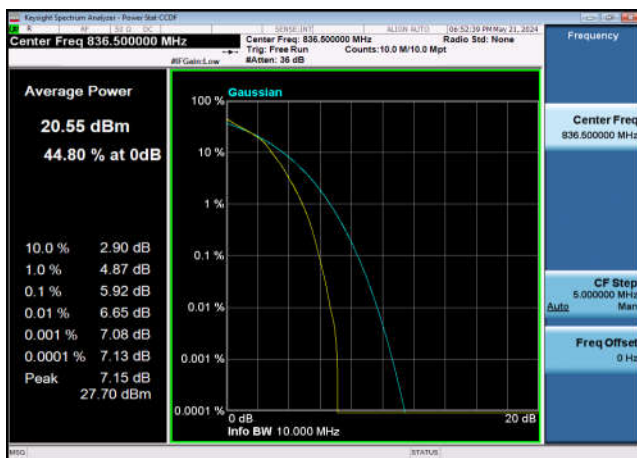
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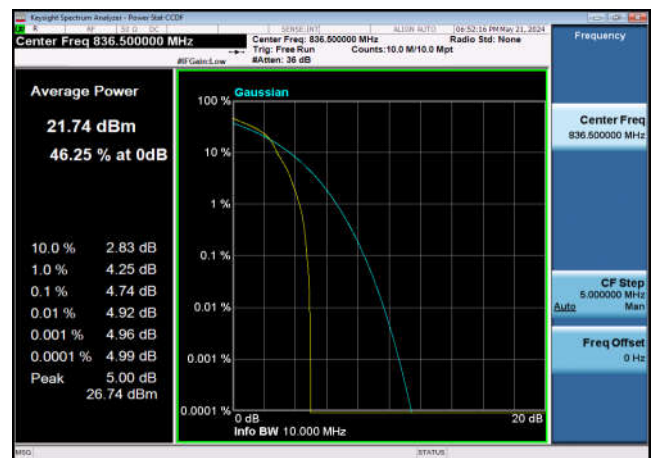
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_high_Q16



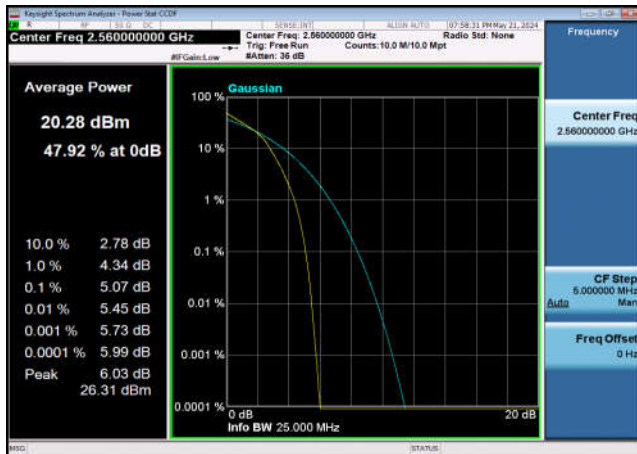
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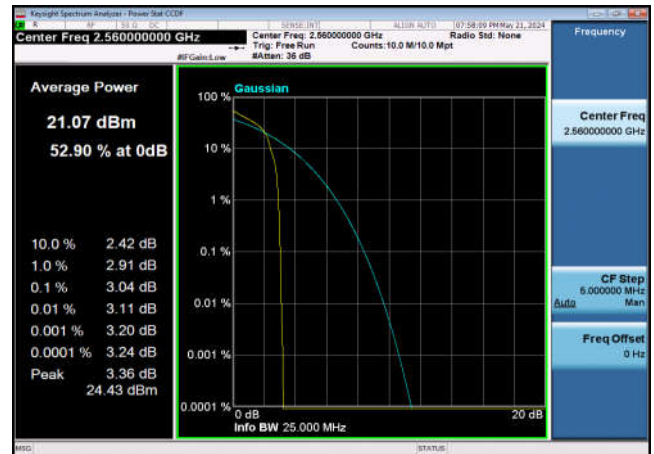
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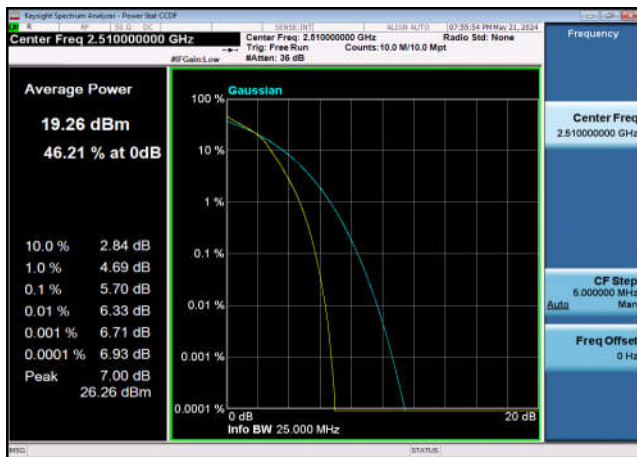
FDD07_HighRange_20MHz_2560_fullRB
_Q16



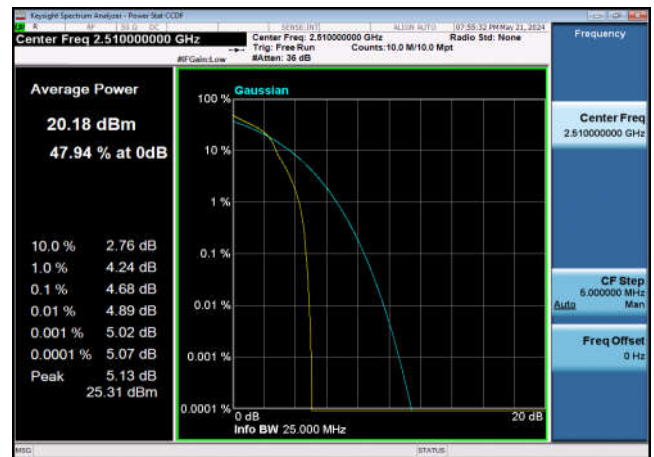
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_high_Q16



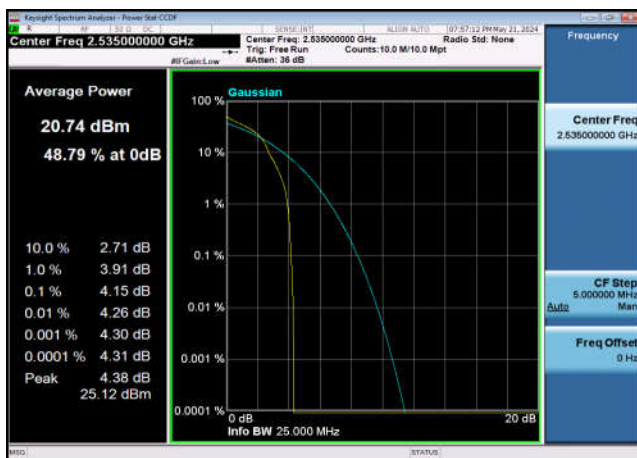
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_Q16



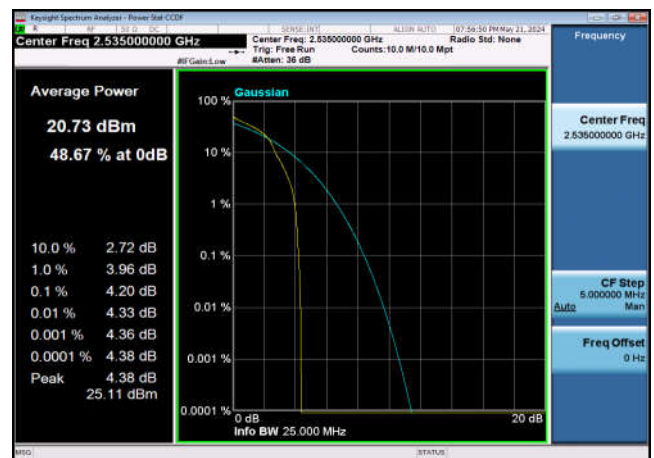
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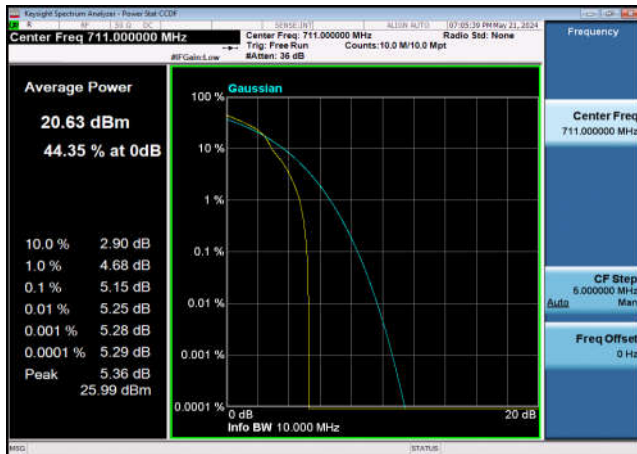
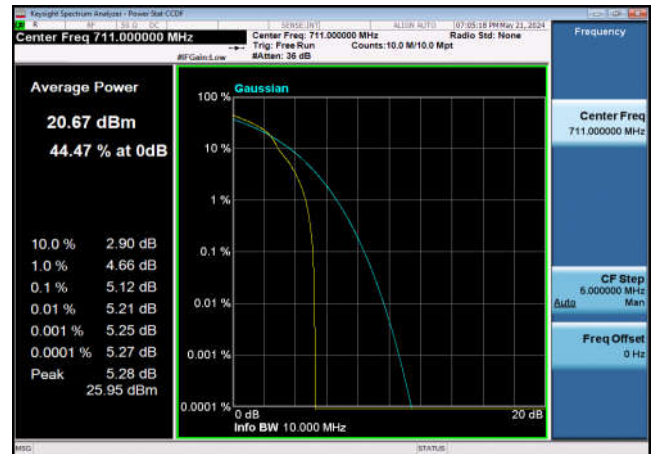
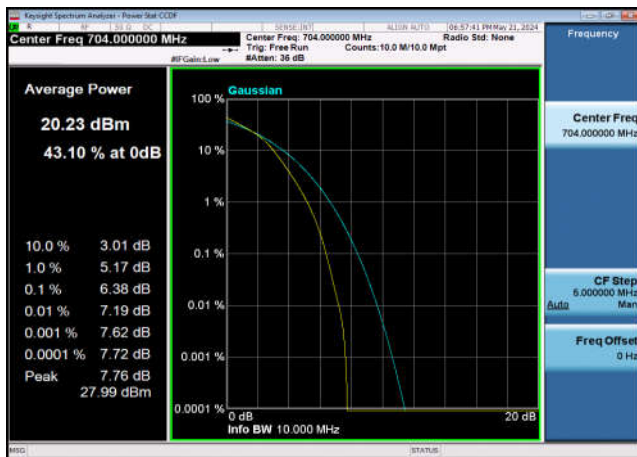
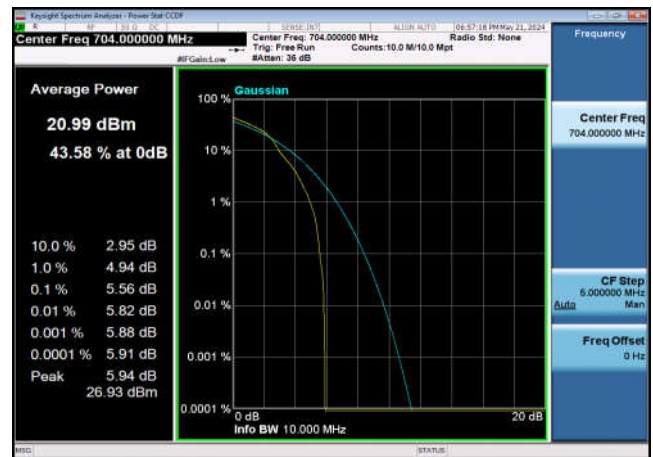
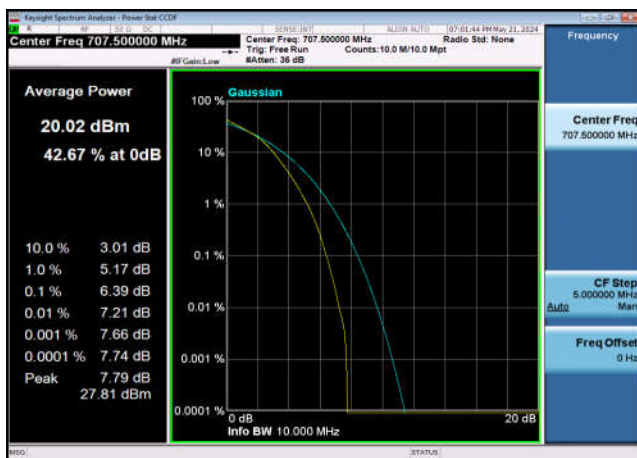
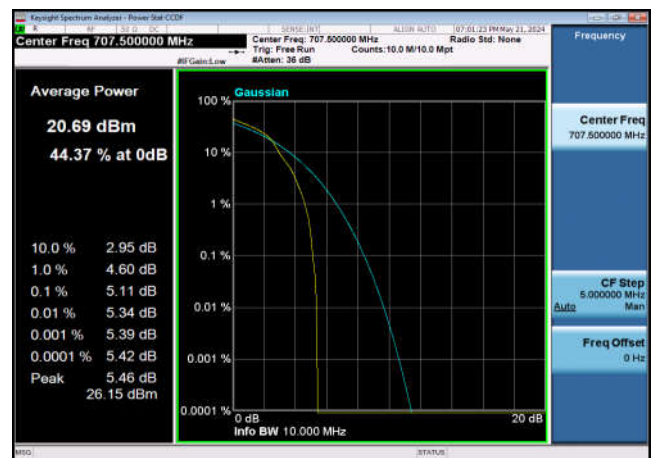


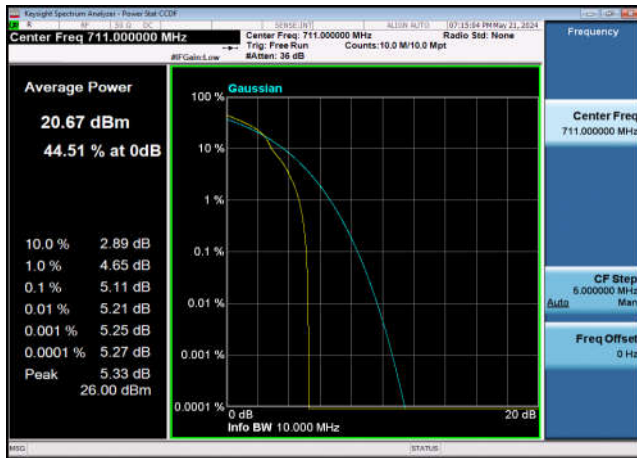
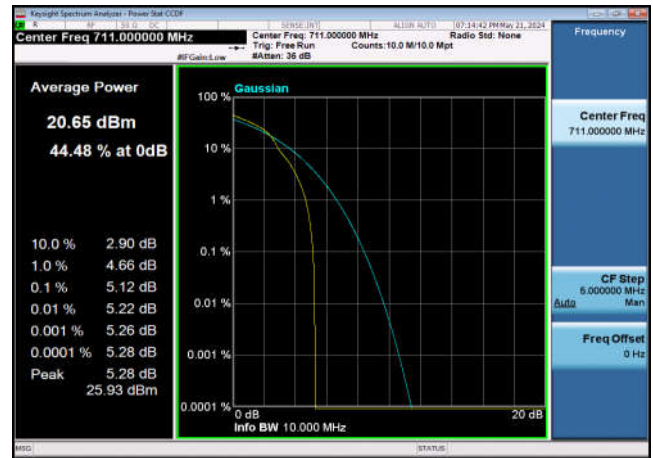
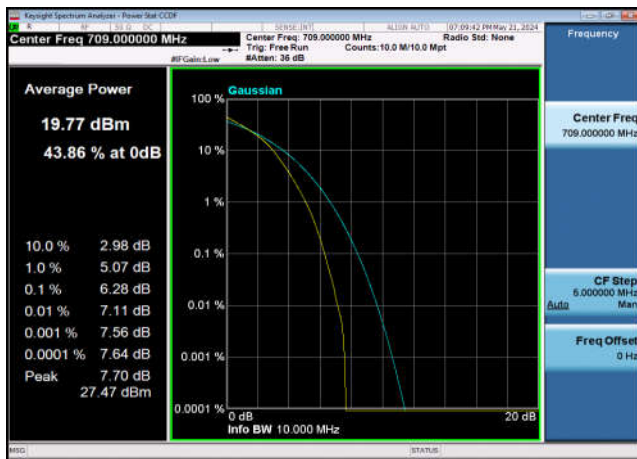
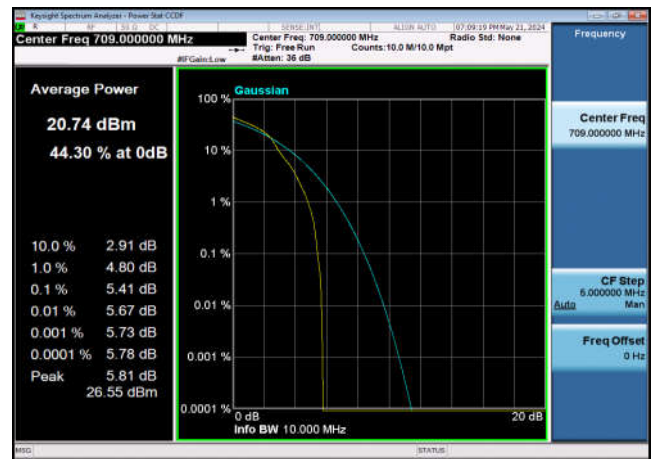
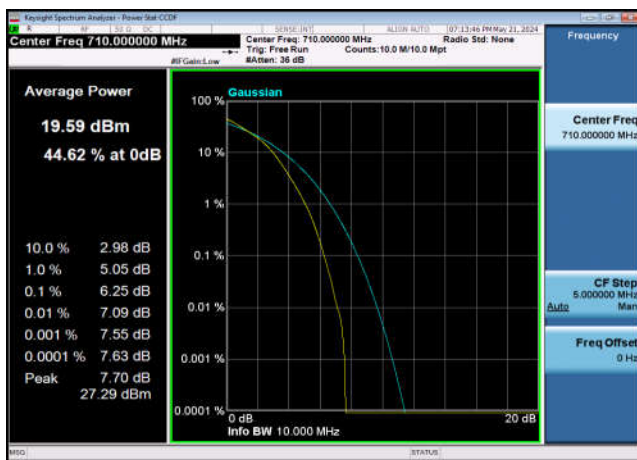
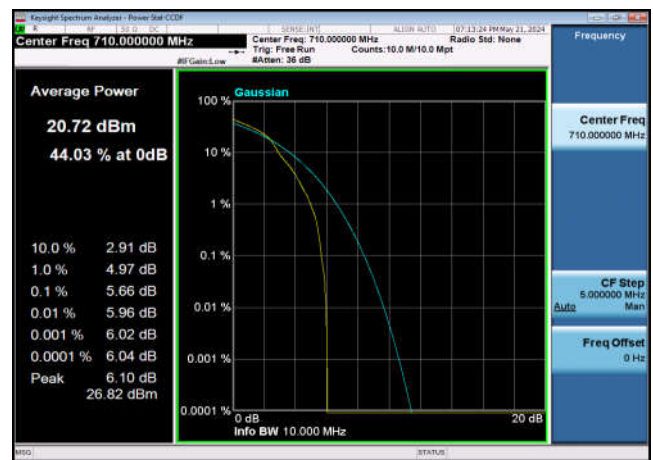
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_Q16



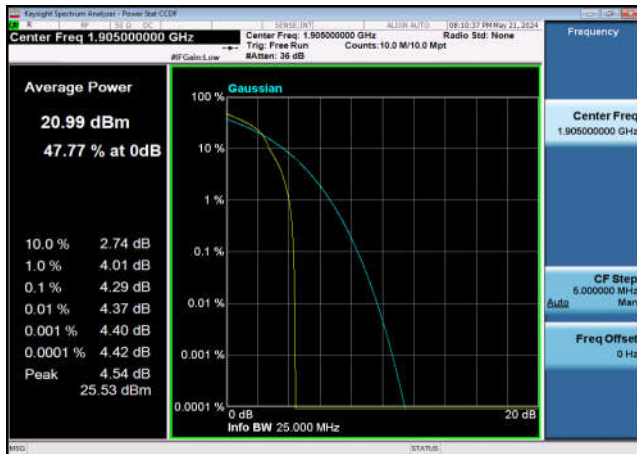
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_high_Q16



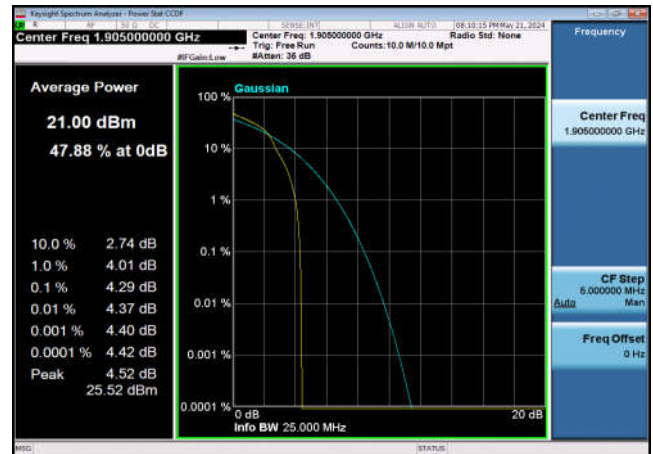
FDD12_HighRange_10MHz_711_fullIRB
_Q16

FDD12_HighRange_10MHz_711_OneRB
_high_Q16

FDD12_LowRange_10MHz_704_fullIRB
_Q16

FDD12_LowRange_10MHz_704_OneRB
_high_Q16

FDD12_MidRange_10MHz_707.5_fullIRB
_Q16

FDD12_MidRange_10MHz_707.5_OneRB
_high_Q16


FDD17_HighRange_10MHz_711_fullIRB
_Q16

FDD17_HighRange_10MHz_711_OneRB
_high_Q16

FDD17_LowRange_10MHz_709_fullIRB
_Q16

FDD17_LowRange_10MHz_709_OneRB
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FDD17_MidRange_10MHz_710_fullIRB
_Q16

FDD17_MidRange_10MHz_710_OneRB
_high_Q16


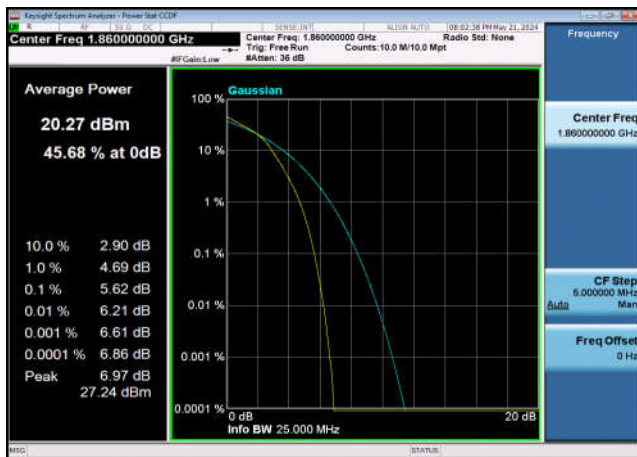
FDD25_HighRange_20MHz_1905_fullRB
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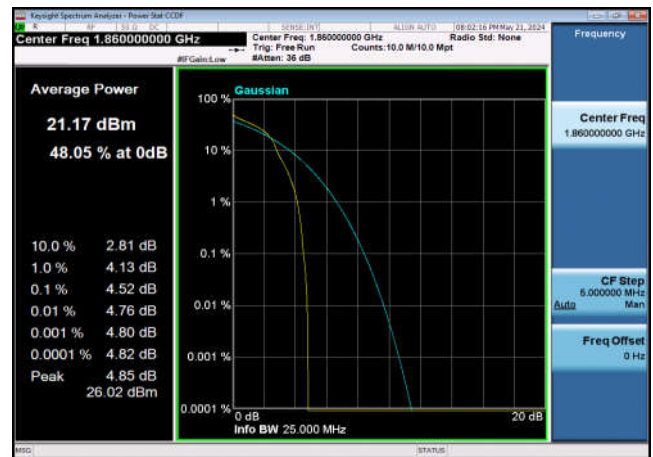
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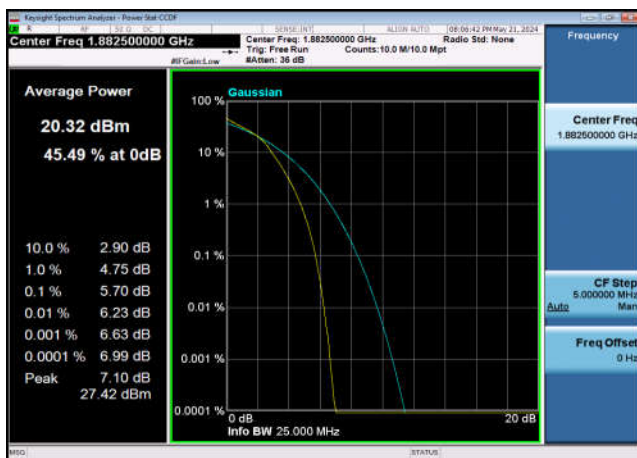
FDD25_LowRange_20MHz_1860_fullRB
_Q16



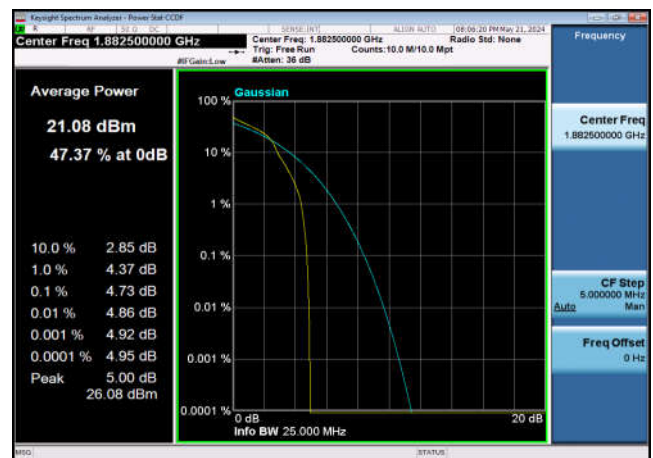
FDD25_LowRange_20MHz_1860_OneRB
_high_Q16



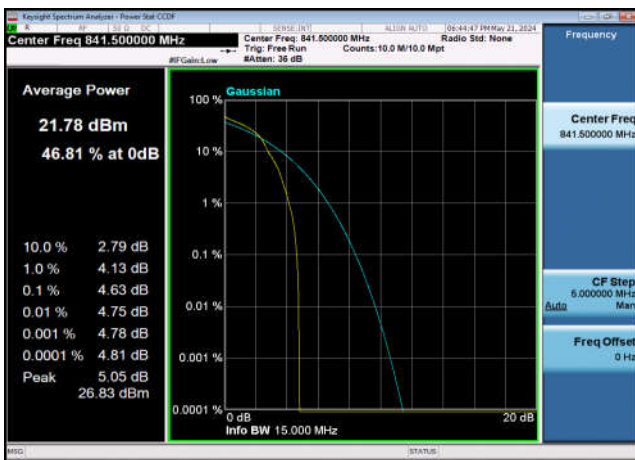
FDD25_MidRange_20MHz_1882.5_fullRB
_Q16



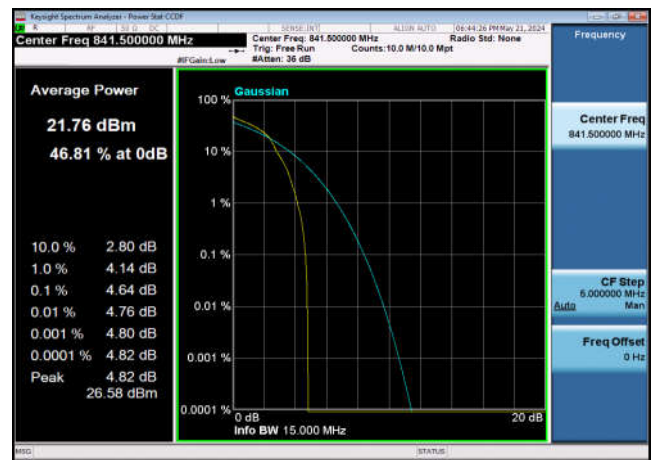
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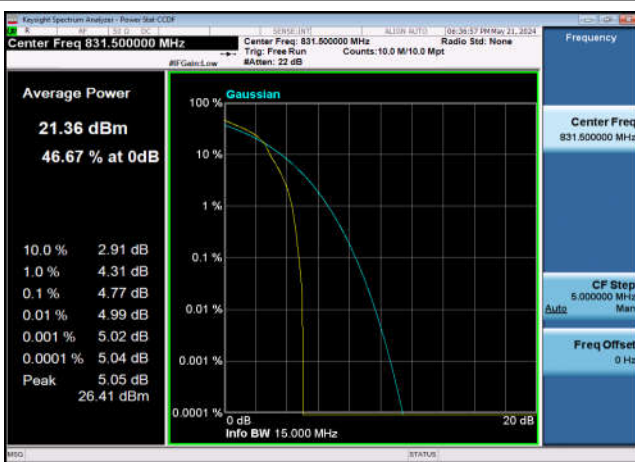
FDD26_Part 22_HighRange_15MHz_841.5_fullIRB_Q16



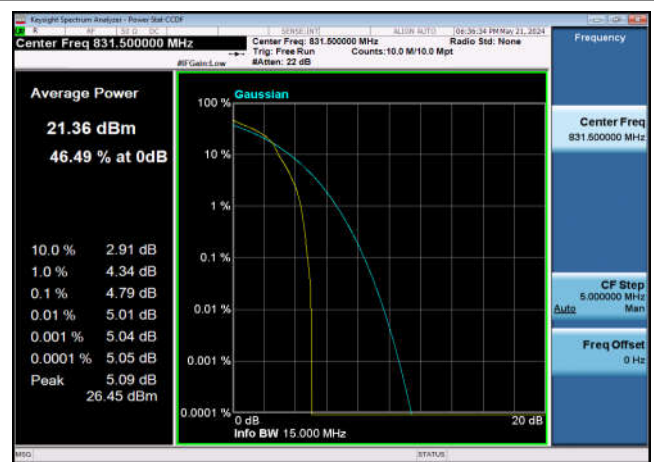
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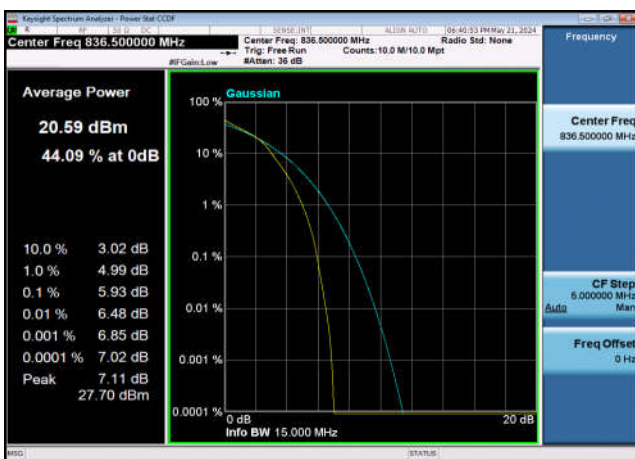
FDD26_Part 22_LowRange_15MHz_831.5_fullIRB_Q16



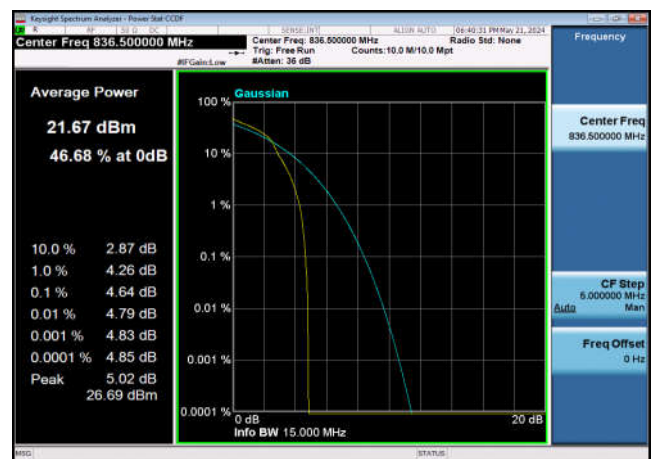
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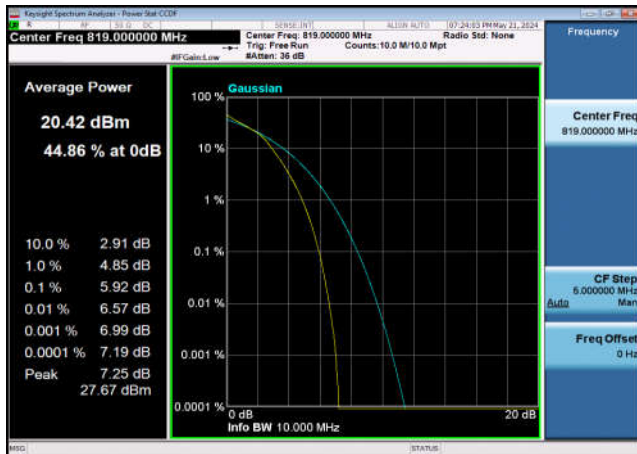
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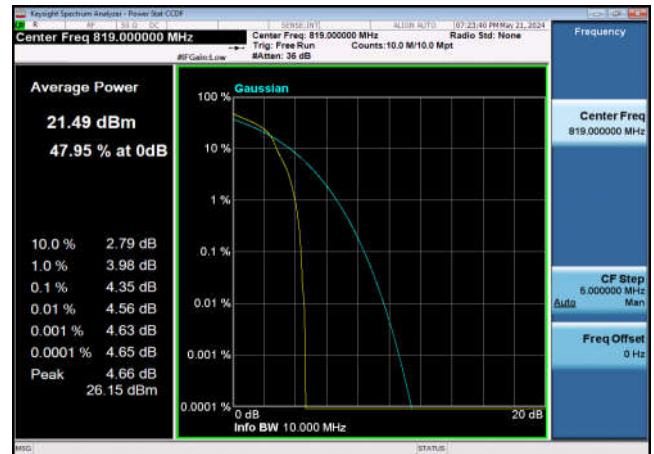
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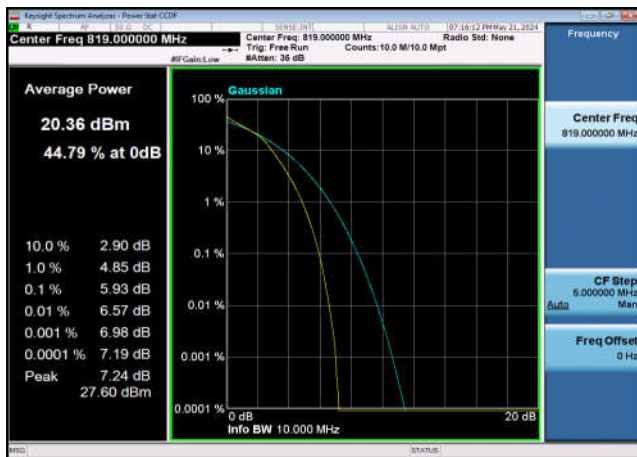
FDD26_Part 90_HighRange_10MHz_819_fullRB_Q16



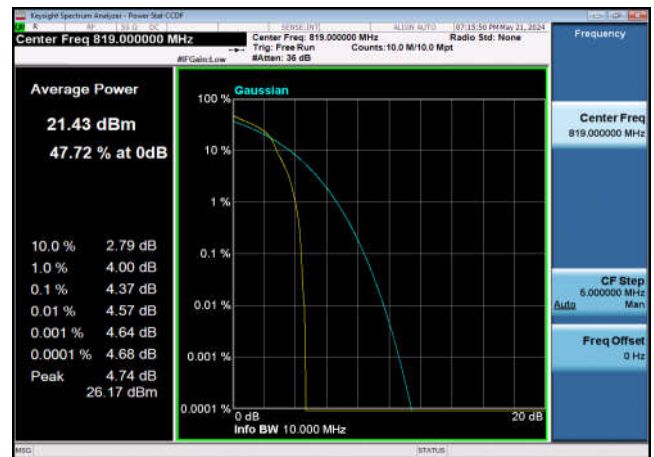
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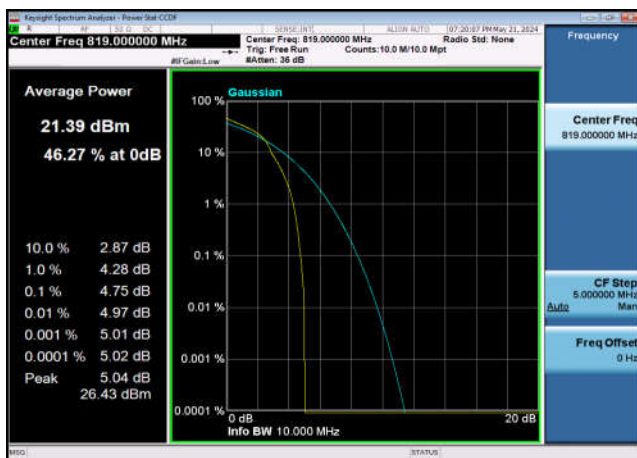
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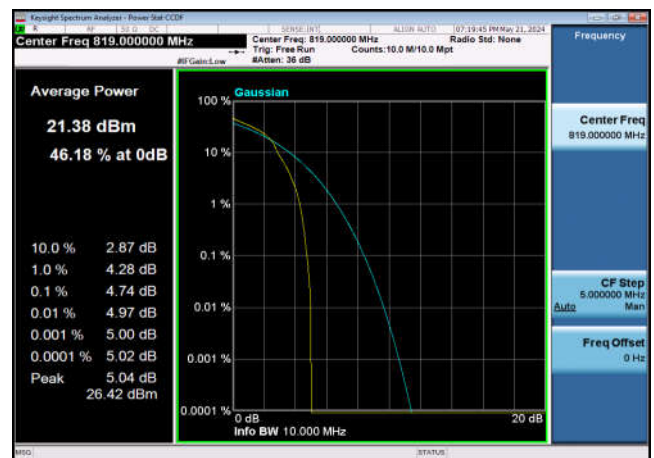
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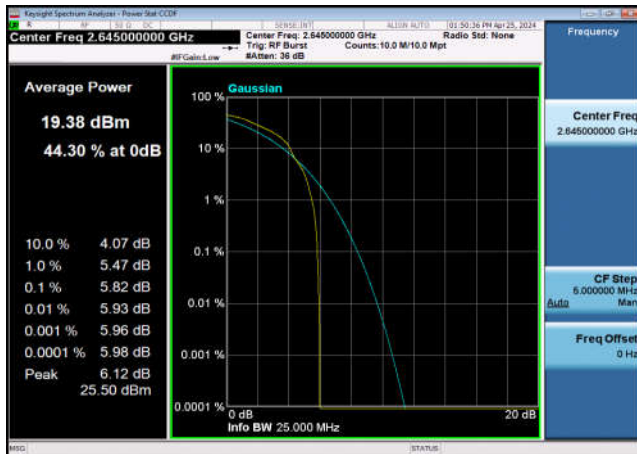
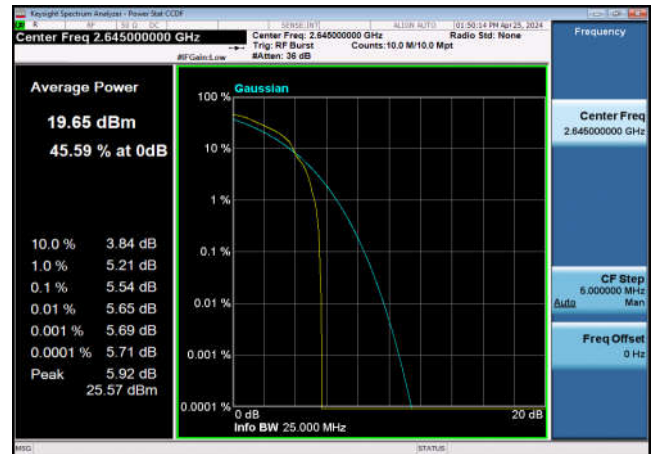
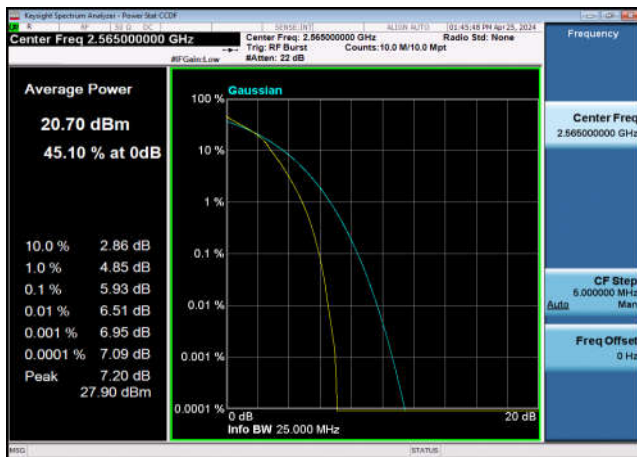
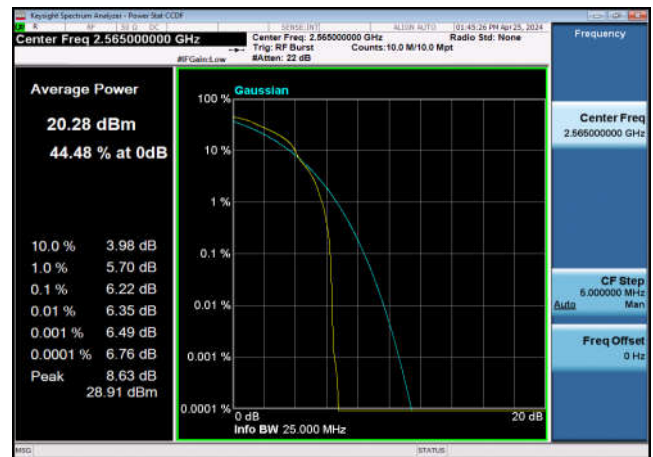
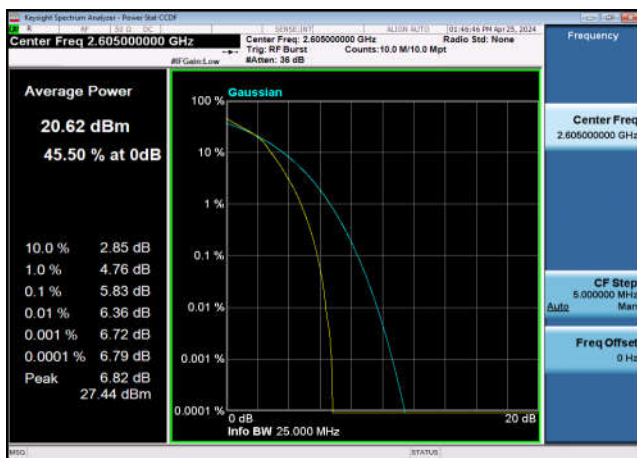
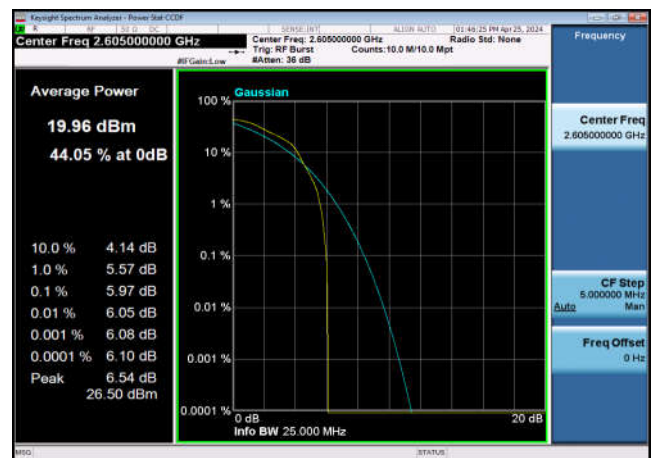


FDD26_Part 90_MidRange_10MHz_819_fullRB_Q16



FDD26_Part 90_MidRange_10MHz_819_OneRB_high_Q16



TDD41_HighRange_20MHz_2645_fullRB
_Q16

TDD41_HighRange_20MHz_2645_OneRB
_high_Q16

TDD41_LowRange_20MHz_2565_fullRB
_Q16

TDD41_LowRange_20MHz_2565_OneRB
_high_Q16

TDD41_MidRange_20MHz_2605_fullRB
_Q16

TDD41_MidRange_20MHz_2605_OneRB
_high_Q16


99% Occupied Bandwidth and 26dB Emission Bandwidth

Occupied Bandwidth NormalTC_NormalVol						
Band	Range	BandWidth	Frequency (MHz)	Modulation	99% OBW (MHz)	26dB EBW (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.089	1.237
FDD02	MidRange	1.4	1880	Q16	1.09	1.282
FDD02	MidRange	3	1880	QPSK	2.675	2.819
FDD02	MidRange	3	1880	Q16	2.678	2.812
FDD02	MidRange	5	1880	QPSK	4.496	4.785
FDD02	MidRange	5	1880	Q16	4.495	4.789
FDD02	MidRange	10	1880	QPSK	8.953	9.332
FDD02	MidRange	10	1880	Q16	8.931	9.364
FDD02	MidRange	15	1880	QPSK	13.515	14.66
FDD02	MidRange	15	1880	Q16	13.511	14.56
FDD02	MidRange	20	1880	QPSK	17.928	18.75
FDD02	MidRange	20	1880	Q16	17.911	18.77
FDD04	MidRange	1.4	1732.5	QPSK	1.090	1.256
FDD04	MidRange	1.4	1732.5	Q16	1.088	1.272
FDD04	MidRange	3	1732.5	QPSK	2.685	2.841
FDD04	MidRange	3	1732.5	Q16	2.676	2.823
FDD04	MidRange	5	1732.5	QPSK	4.507	4.790
FDD04	MidRange	5	1732.5	Q16	4.503	4.777
FDD04	MidRange	10	1732.5	QPSK	8.945	9.360
FDD04	MidRange	10	1732.5	Q16	8.935	9.362
FDD04	MidRange	15	1732.5	QPSK	13.486	14.32
FDD04	MidRange	15	1732.5	Q16	13.485	14.27
FDD04	MidRange	20	1732.5	QPSK	17.916	18.74
FDD04	MidRange	20	1732.5	Q16	17.925	18.77
FDD05	MidRange	1.4	836.5	QPSK	1.086	1.243
FDD05	MidRange	1.4	836.5	Q16	1.090	1.269
FDD05	MidRange	3	836.5	QPSK	2.678	2.814
FDD05	MidRange	3	836.5	Q16	2.679	2.832
FDD05	MidRange	5	836.5	QPSK	4.496	4.811
FDD05	MidRange	5	836.5	Q16	4.498	4.787



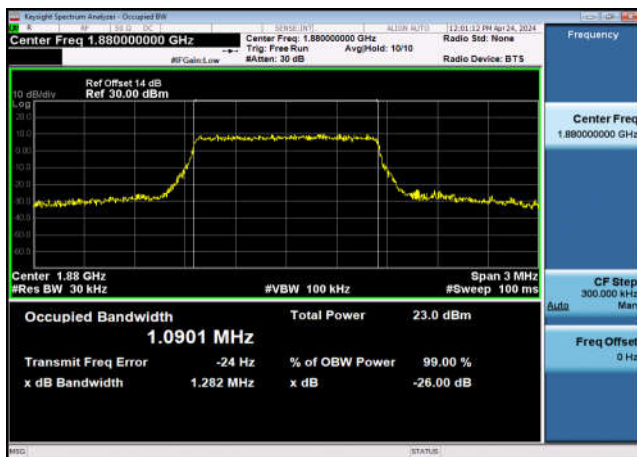
FDD05	MidRange	10	836.5	QPSK	8.93	9.306
FDD05	MidRange	10	836.5	Q16	8.94	9.277
FDD07	MidRange	5	2535	QPSK	4.499	4.788
FDD07	MidRange	5	2535	Q16	4.492	4.846
FDD07	MidRange	10	2535	QPSK	8.94	9.374
FDD07	MidRange	10	2535	Q16	8.945	9.372
FDD07	MidRange	15	2535	QPSK	13.496	14.28
FDD07	MidRange	15	2535	Q16	13.478	14.24
FDD07	MidRange	20	2535	QPSK	17.928	18.77
FDD07	MidRange	20	2535	Q16	17.912	18.73
FDD12	MidRange	1.4	707.5	QPSK	1.089	1.256
FDD12	MidRange	1.4	707.5	Q16	1.088	1.236
FDD12	MidRange	3	707.5	QPSK	2.676	2.825
FDD12	MidRange	3	707.5	Q16	2.674	2.830
FDD12	MidRange	5	707.5	QPSK	4.507	4.890
FDD12	MidRange	5	707.5	Q16	4.503	4.948
FDD12	MidRange	10	707.5	QPSK	8.955	9.499
FDD12	MidRange	10	707.5	Q16	8.944	9.456
FDD17	MidRange	5	710	QPSK	4.495	4.884
FDD17	MidRange	5	710	Q16	4.495	4.929
FDD17	MidRange	10	710	QPSK	8.911	9.360
FDD17	MidRange	10	710	Q16	8.905	9.404
FDD25	MidRange	1.4	1882.5	QPSK	1.087	1.240
FDD25	MidRange	1.4	1882.5	Q16	1.090	1.257
FDD25	MidRange	3	1882.5	QPSK	2.677	2.820
FDD25	MidRange	3	1882.5	Q16	2.676	2.834
FDD25	MidRange	5	1882.5	QPSK	4.493	4.909
FDD25	MidRange	5	1882.5	Q16	4.501	4.970
FDD25	MidRange	10	1882.5	QPSK	8.953	9.475
FDD25	MidRange	10	1882.5	Q16	8.94	9.552
FDD25	MidRange	15	1882.5	QPSK	13.489	14.27
FDD25	MidRange	15	1882.5	Q16	13.483	14.40
FDD25	MidRange	20	1882.5	QPSK	17.905	18.98
FDD25	MidRange	20	1882.5	Q16	17.932	18.82
FDD26_Part 22	MidRange	1.4	836.5	QPSK	1.091	1.295



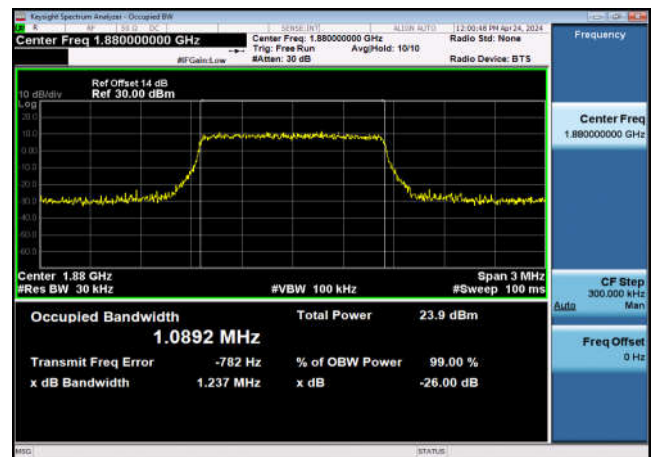
FDD26_Part 22	MidRange	1.4	836.5	Q16	1.088	1.289
FDD26_Part 22	MidRange	3	836.5	QPSK	2.681	2.822
FDD26_Part 22	MidRange	3	836.5	Q16	2.678	2.826
FDD26_Part 22	MidRange	5	836.5	QPSK	4.494	4.790
FDD26_Part 22	MidRange	5	836.5	Q16	4.493	4.757
FDD26_Part 22	MidRange	10	836.5	QPSK	8.931	9.346
FDD26_Part 22	MidRange	10	836.5	Q16	8.93	9.306
FDD26_Part 22	MidRange	15	836.5	QPSK	13.472	14.25
FDD26_Part 22	MidRange	15	836.5	Q16	13.461	14.23
FDD26_Part 90	MidRange	1.4	819	QPSK	1.086	1.243
FDD26_Part 90	MidRange	1.4	819	Q16	1.09	1.267
FDD26_Part 90	MidRange	3	819	QPSK	2.681	2.818
FDD26_Part 90	MidRange	3	819	Q16	2.682	2.817
FDD26_Part 90	MidRange	5	819	QPSK	4.499	4.774
FDD26_Part 90	MidRange	5	819	Q16	4.503	4.779
FDD26_Part 90	MidRange	10	819	QPSK	8.938	9.324
FDD26_Part 90	MidRange	10	819	Q16	8.93	9.304
TDD41	MidRange	5	2605	QPSK	4.493	4.787
TDD41	MidRange	5	2605	Q16	4.496	4.774
TDD41	MidRange	10	2605	QPSK	8.936	9.283
TDD41	MidRange	10	2605	Q16	8.931	9.280
TDD41	MidRange	15	2605	QPSK	13.475	14.23
TDD41	MidRange	15	2605	Q16	13.456	14.28
TDD41	MidRange	20	2605	QPSK	17.89	18.73
TDD41	MidRange	20	2605	Q16	17.889	18.71

Band	Bandwidth	Modulation	Channel	RB Configuration	99% OBW (MHz)	26dB EBW (MHz)
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.826	29.43
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.803	29.43
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.273	28.80
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.296	32.65
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.391	30.19
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.426	30.23
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.698	34.52
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.654	34.55
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.846	29.55
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.889	29.44
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.715	34.74
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.713	34.60
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.671	39.85
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.616	39.81
41-41	10MHz-20MHz	QPSK-QPSK	40646-40790	50RB#0-100RB#0	27.783	30.55
41-41	10MHz-20MHz	16QAM-16QAM	40646-40790	50RB#0-100RB#0	27.798	30.34
41-41	15MHz-10MHz	QPSK-QPSK	40691-40811	75RB#0-50RB#0	23.232	25.43
41-41	15MHz-10MHz	16QAM-16QAM	40691-40811	75RB#0-50RB#0	23.314	34.16
41-41	15MHz-15MHz	QPSK-QPSK	40665-40815	75RB#0-75RB#0	28.447	32.14
41-41	15MHz-15MHz	16QAM-16QAM	40665-40815	75RB#0-75RB#0	28.407	34.28
41-41	15MHz-20MHz	QPSK-QPSK	40644-40815	75RB#0-100RB#0	32.786	38.95
41-41	15MHz-20MHz	16QAM-16QAM	40644-40815	75RB#0-100RB#0	32.732	36.71
41-41	20MHz-10MHz	QPSK-QPSK	40691-40835	100RB#0-50RB#0	27.839	31.05
41-41	20MHz-10MHz	16QAM-16QAM	40691-40835	100RB#0-50RB#0	27.898	31.35
41-41	20MHz-15MHz	QPSK-QPSK	40666-40837	100RB#0-75RB#0	32.714	36.24
41-41	20MHz-15MHz	16QAM-16QAM	40666-40837	100RB#0-75RB#0	32.682	35.39
41-41	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	32.863	36.84
41-41	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	37.670	43.61

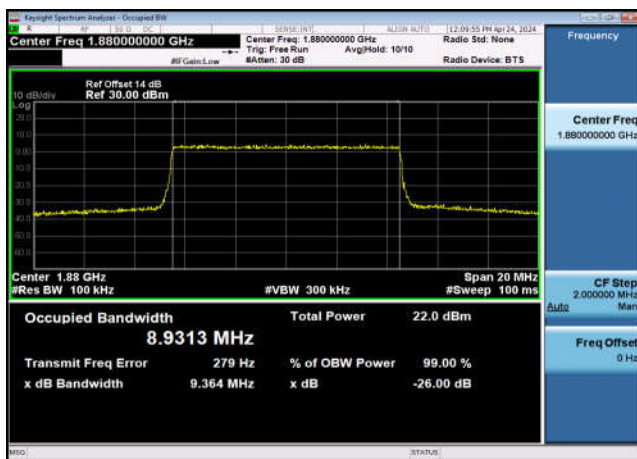
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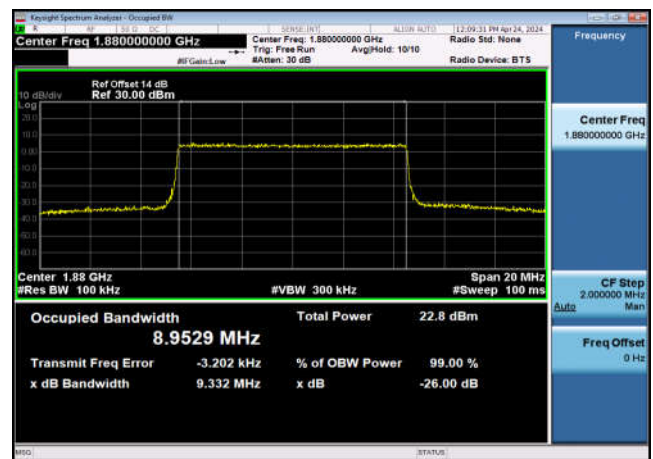
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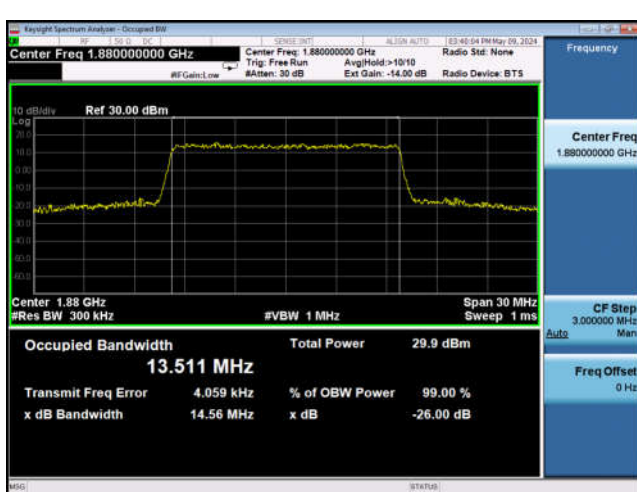
FDD02_MidRange_10_1880_Q16



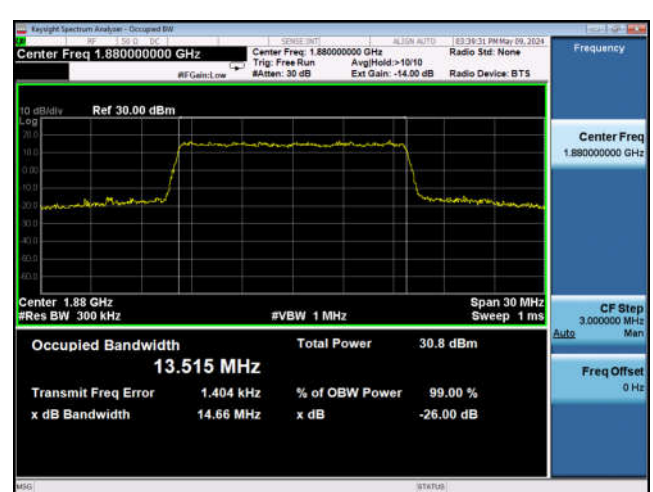
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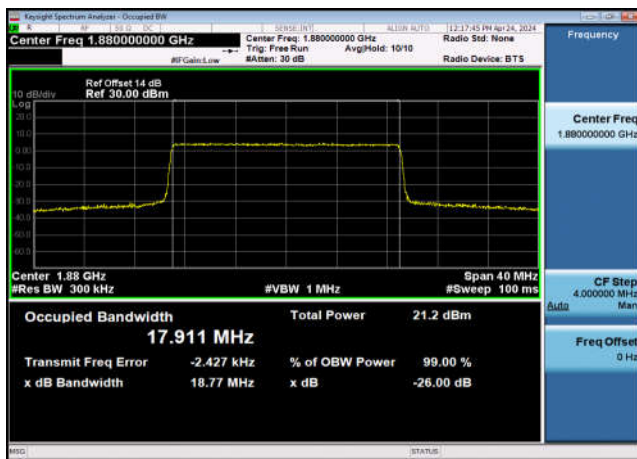
FDD02_MidRange_15_1880_Q16



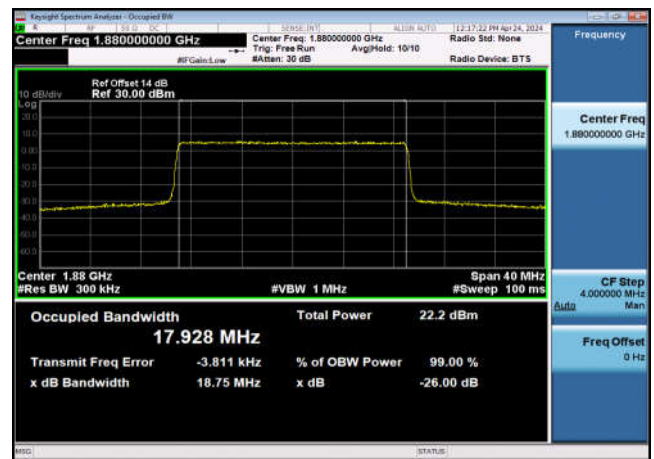
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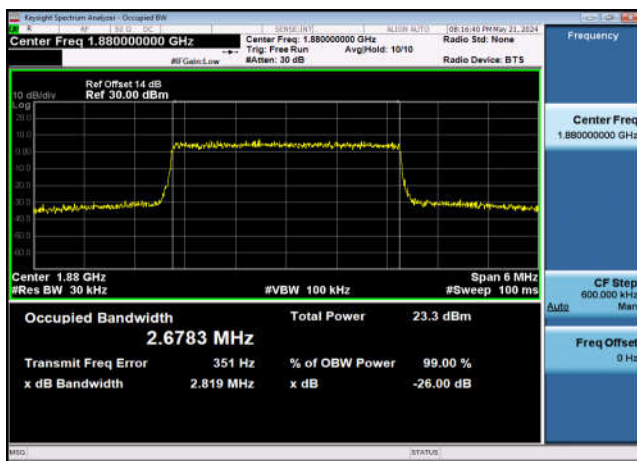
FDD02_MidRange_20_1880_Q16



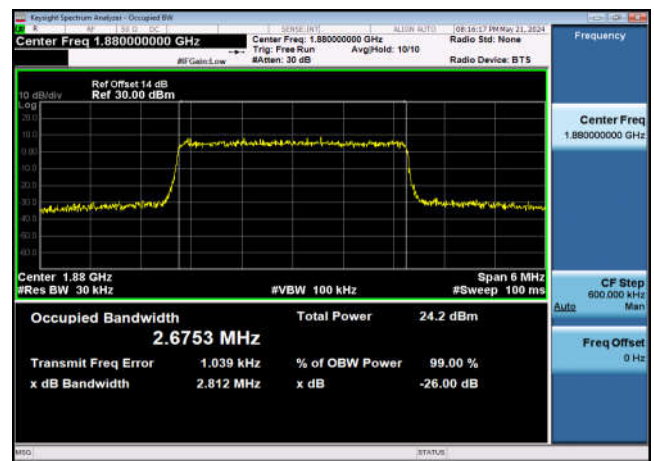
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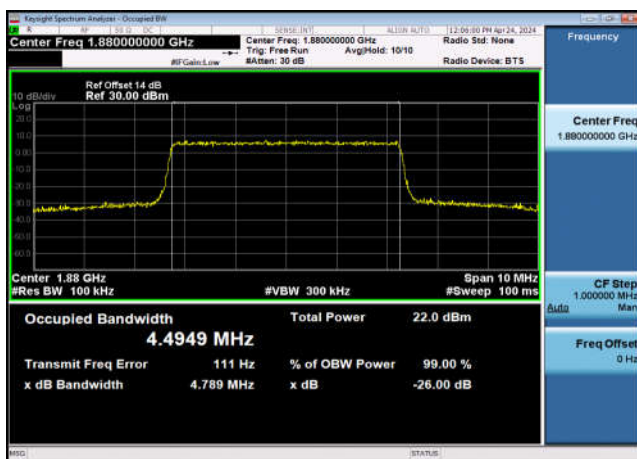
FDD02_MidRange_3_1880_Q16



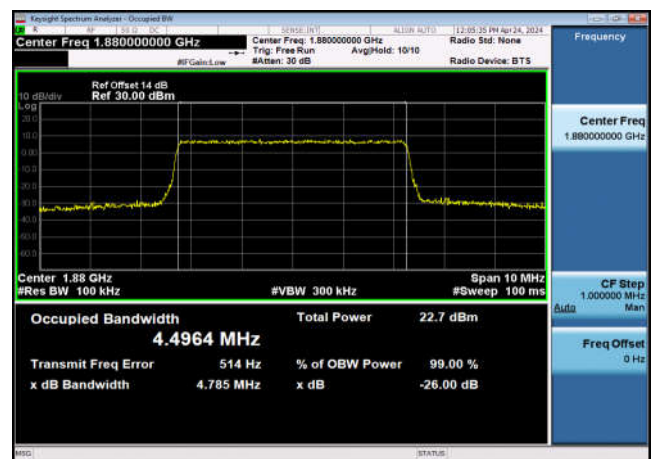
FDD02_MidRange_3_1880_QPSK



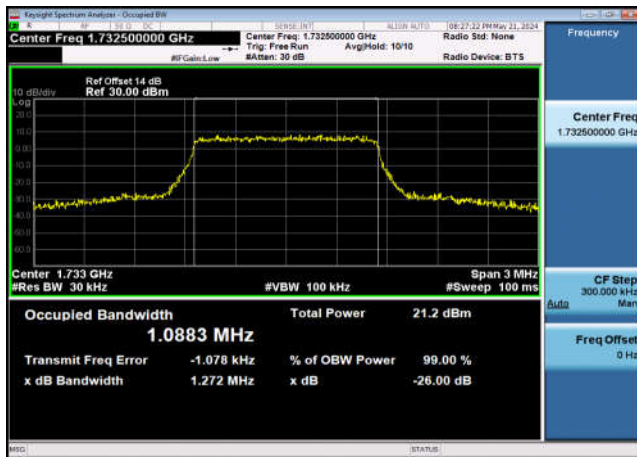
FDD02_MidRange_5_1880_Q16



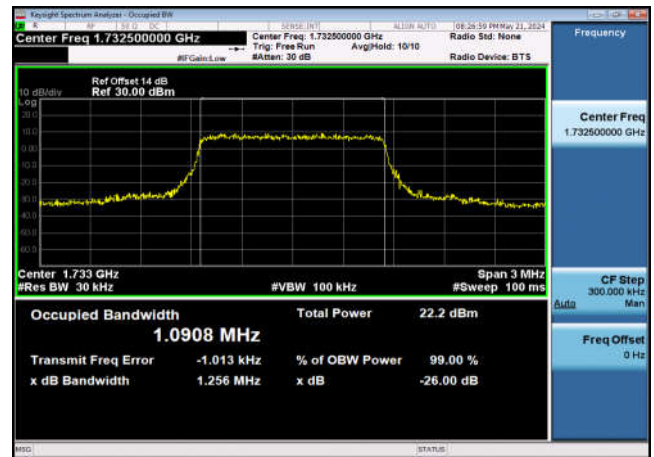
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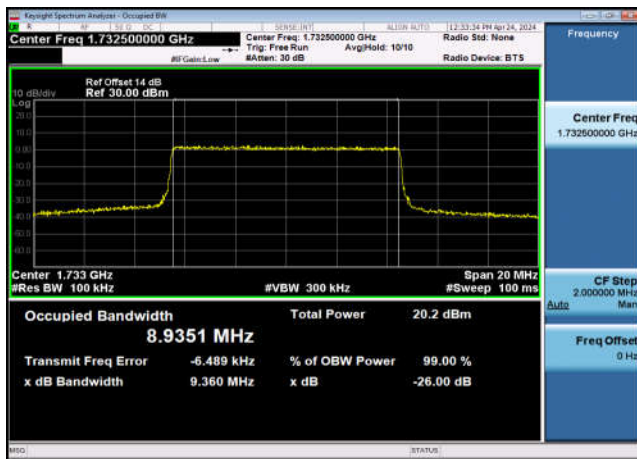
FDD04_MidRange_1.4_1732.5_Q16



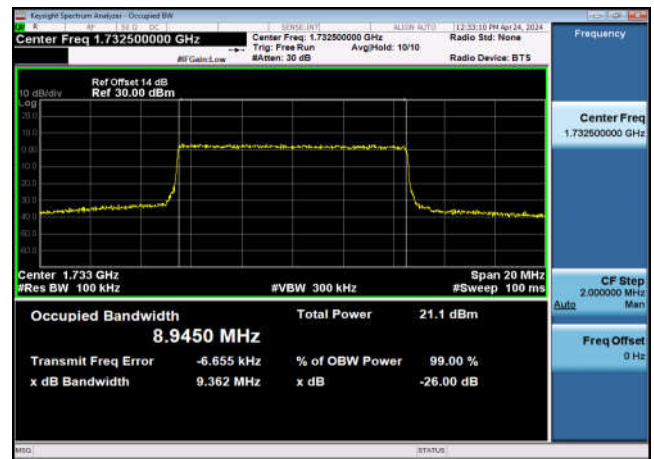
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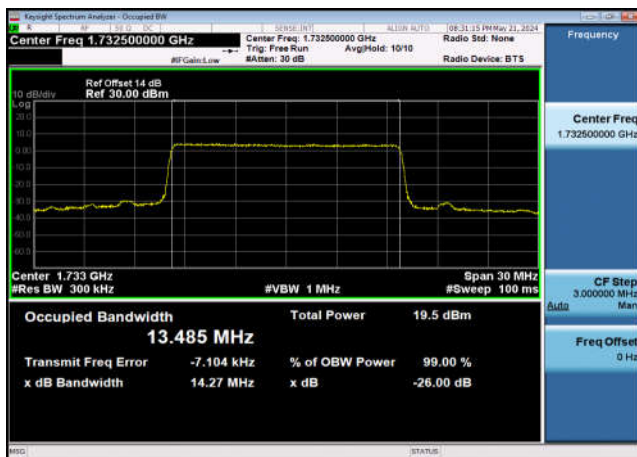
FDD04_MidRange_10_1732.5_Q16



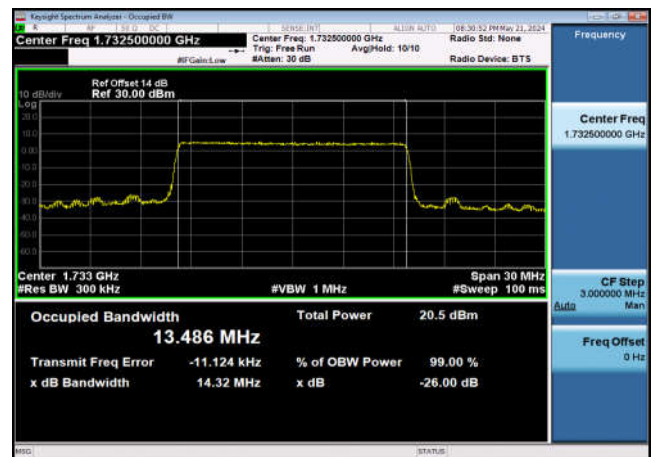
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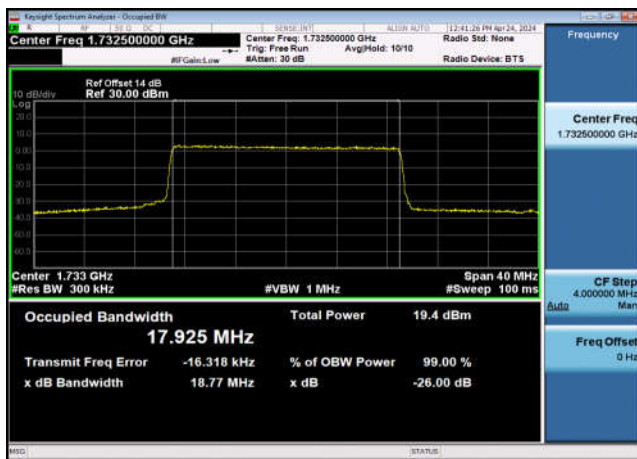
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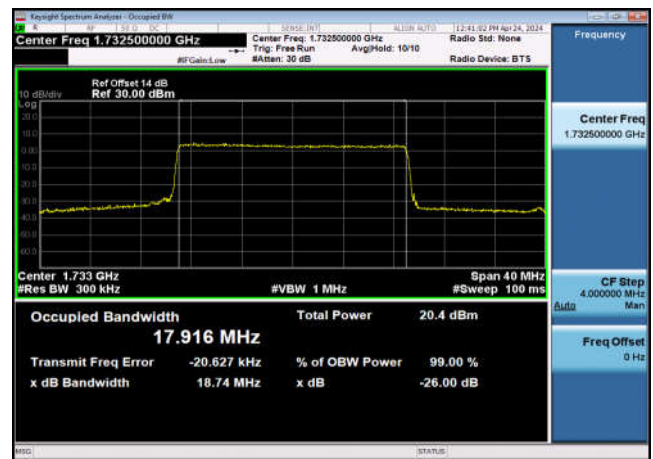
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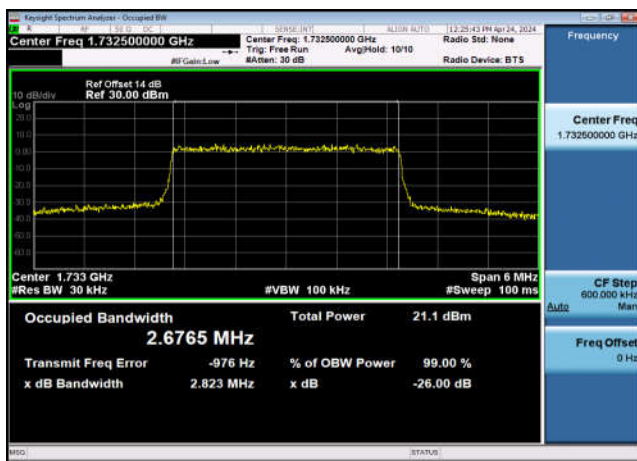
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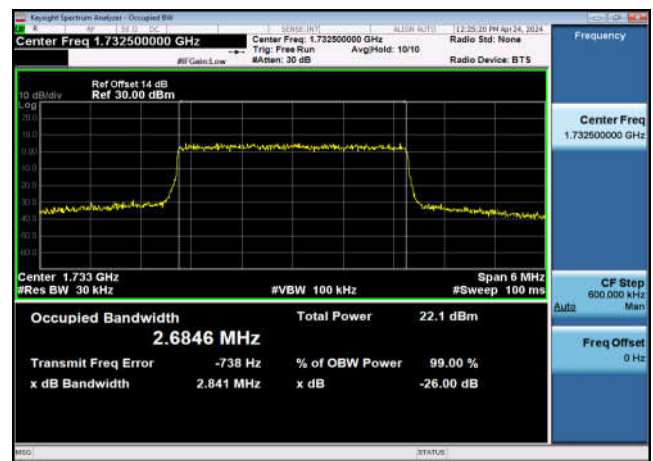
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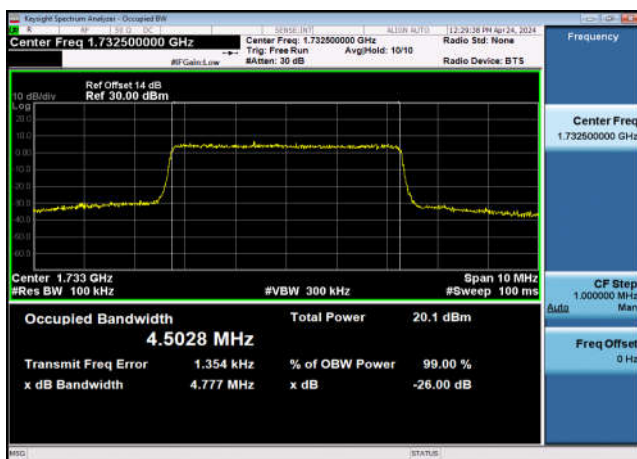
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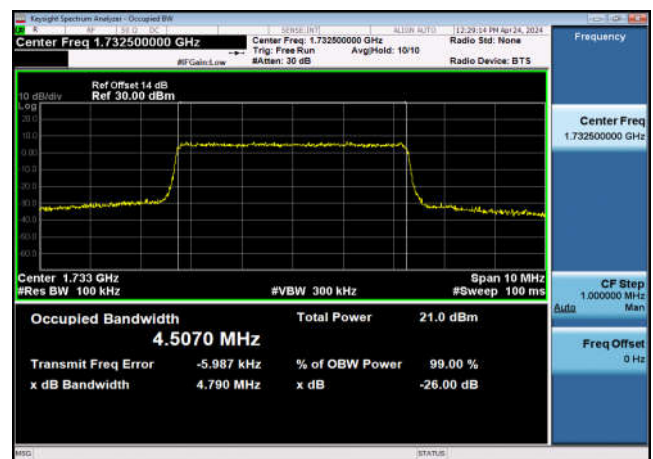
FDD04_MidRange_3_1732.5_QPSK



FDD04_MidRange_5_1732.5_Q16



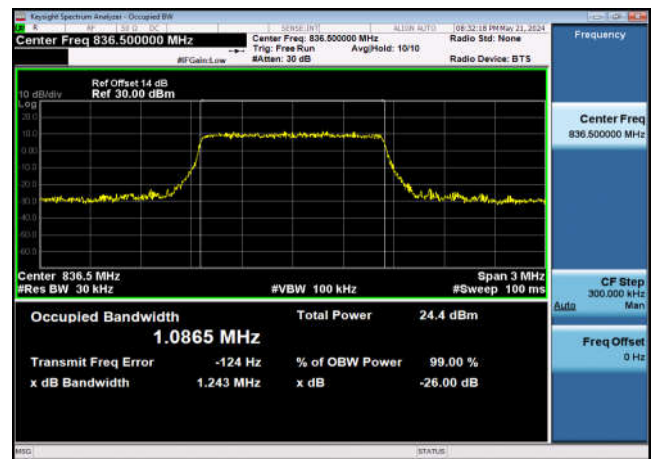
FDD04_MidRange_5_1732.5_QPSK



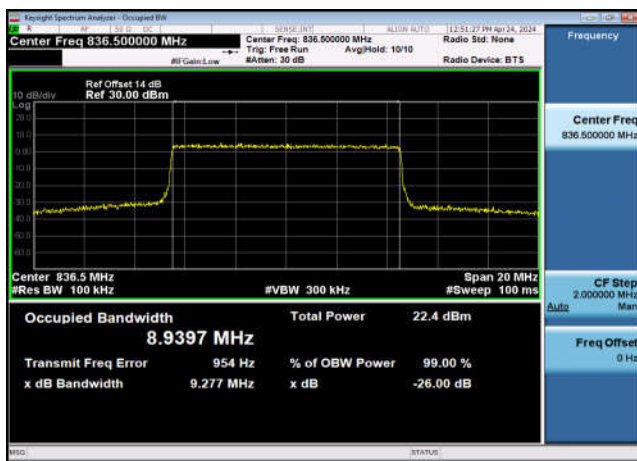
FDD05_MidRange_1.4_836.5_Q16



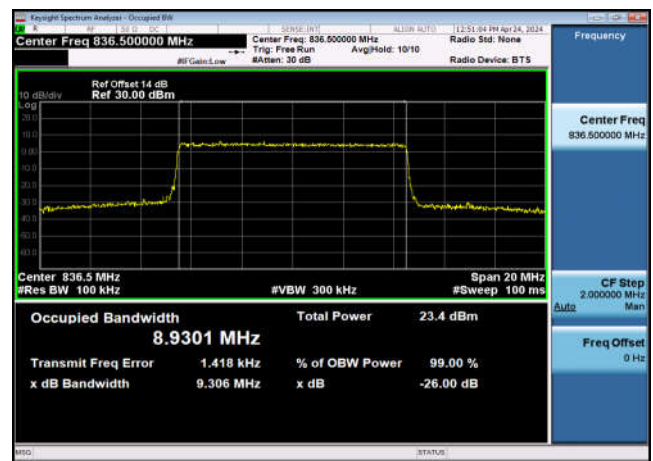
FDD05_MidRange_1.4_836.5_QPSK



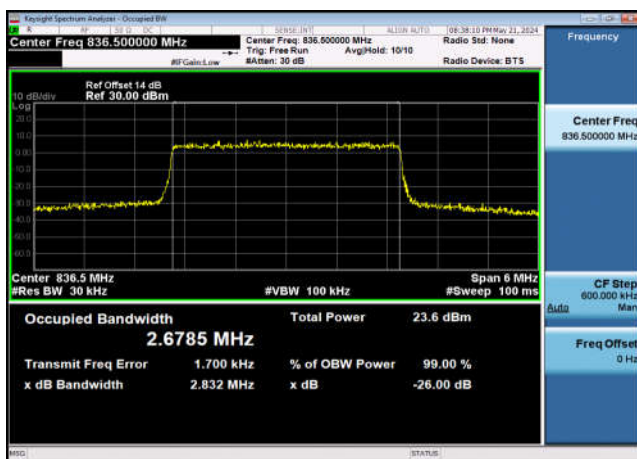
FDD05_MidRange_10_836.5_Q16



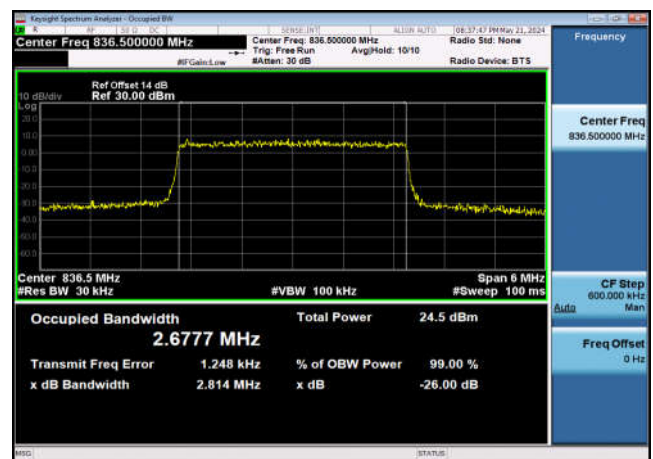
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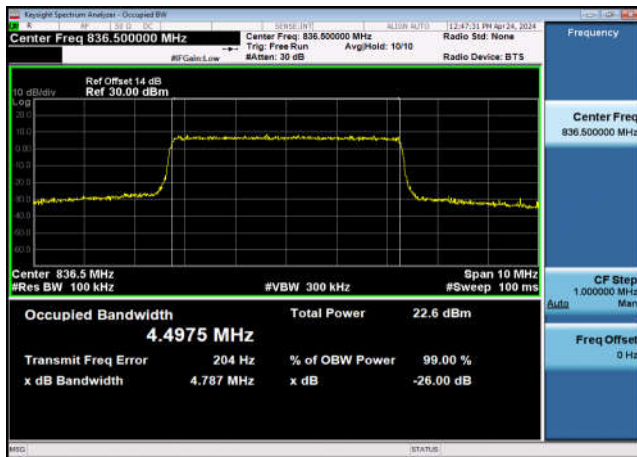
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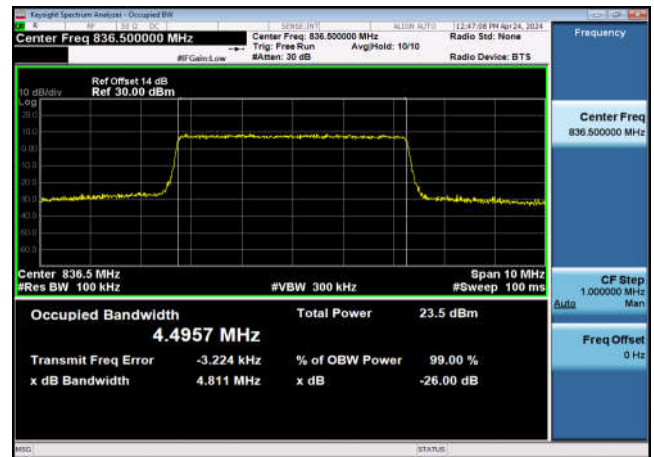
FDD05_MidRange_3_836.5_QPSK



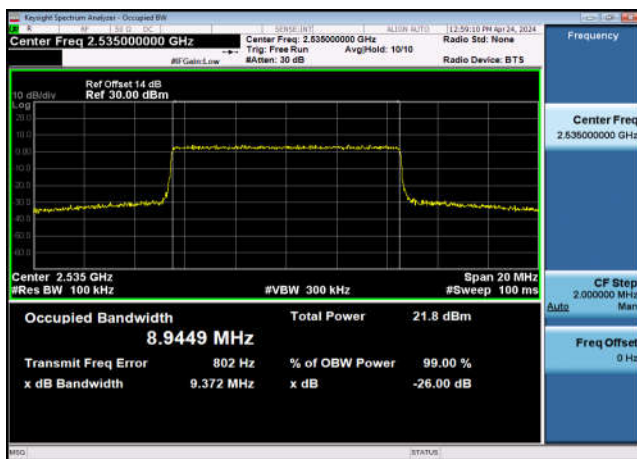
FDD05_MidRange_5_836.5_Q16



FDD05_MidRange_5_836.5_QPSK



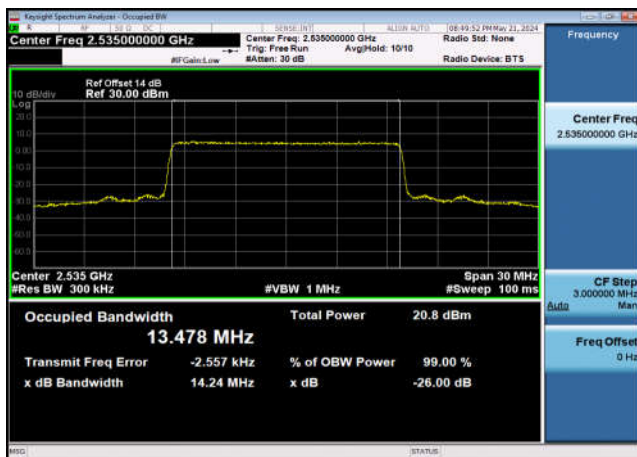
FDD07_MidRange_10_2535_Q16



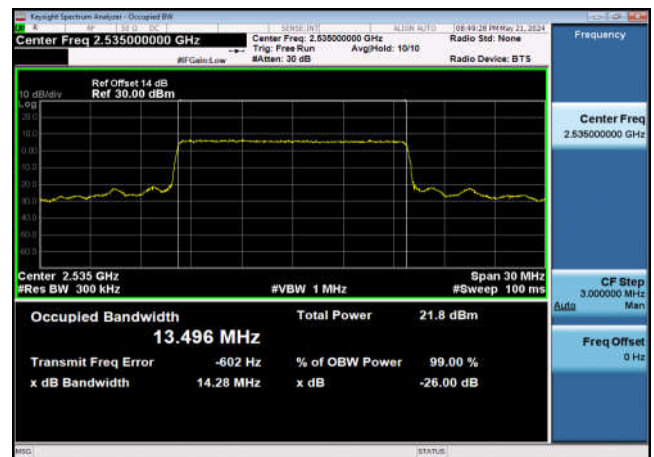
FDD07_MidRange_10_2535_QPSK



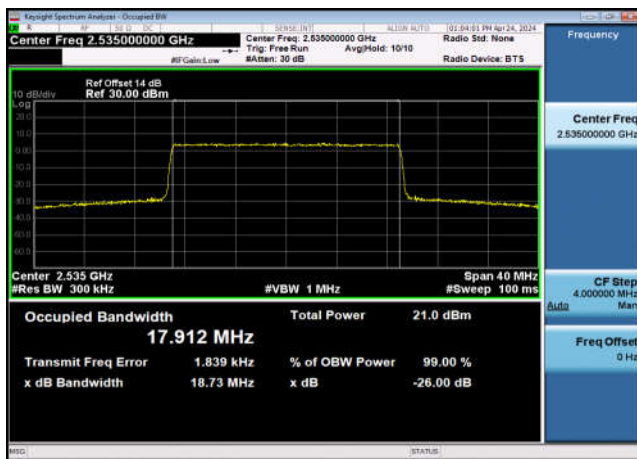
FDD07_MidRange_15_2535_Q16



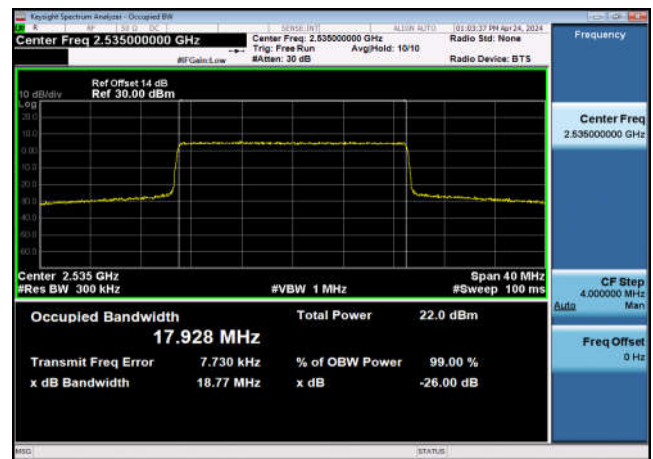
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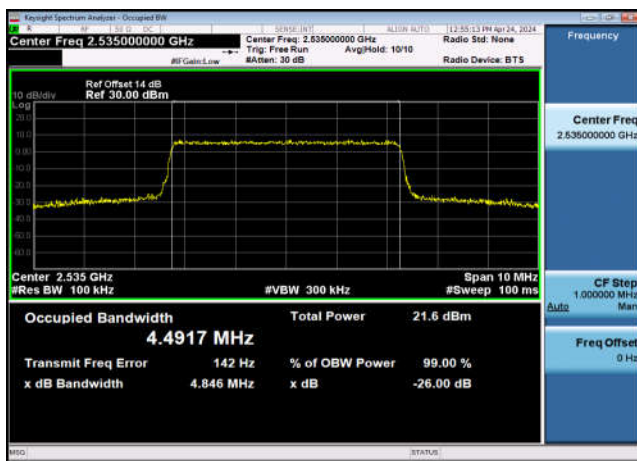
FDD07_MidRange_20_2535_Q16



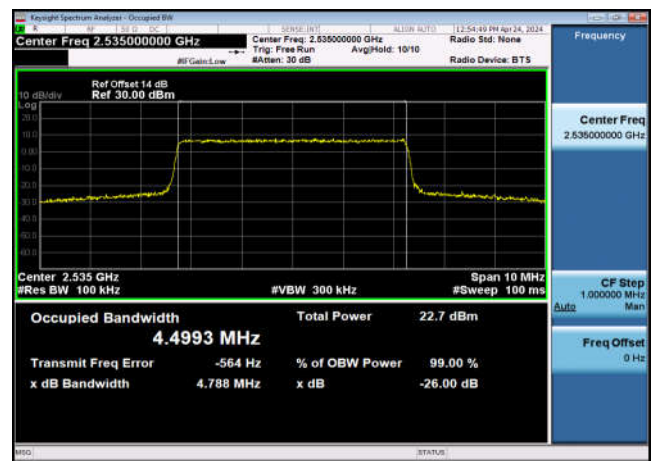
FDD07_MidRange_20_2535_QPSK



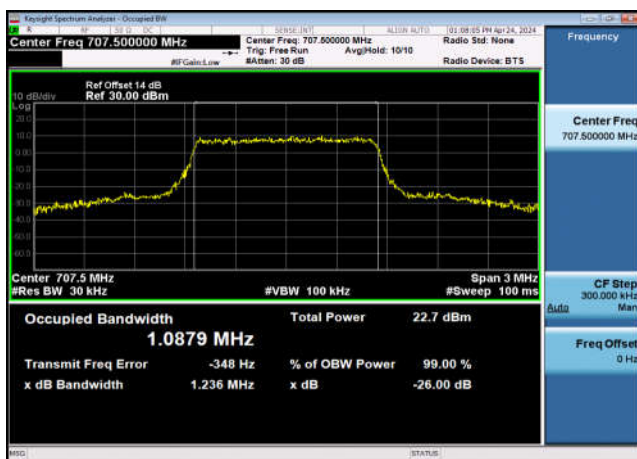
FDD07_MidRange_5_2535_Q16



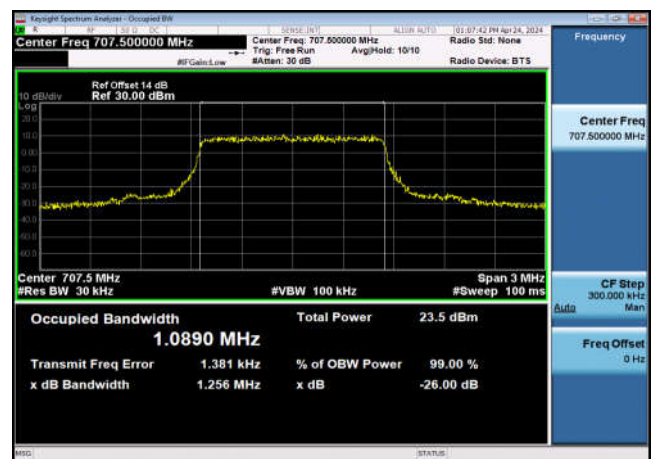
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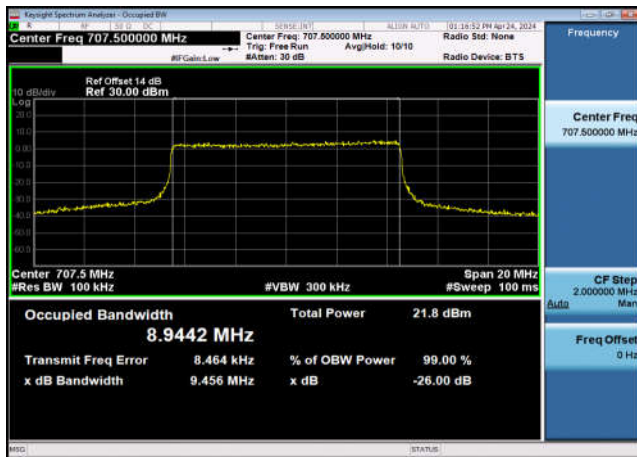
FDD12_MidRange_1.4_707.5_Q16



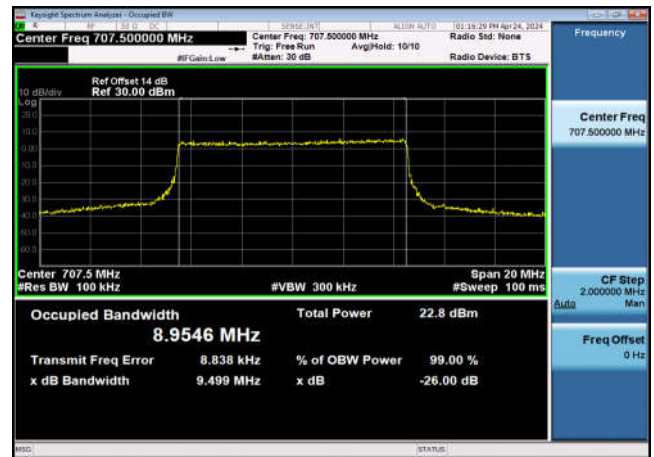
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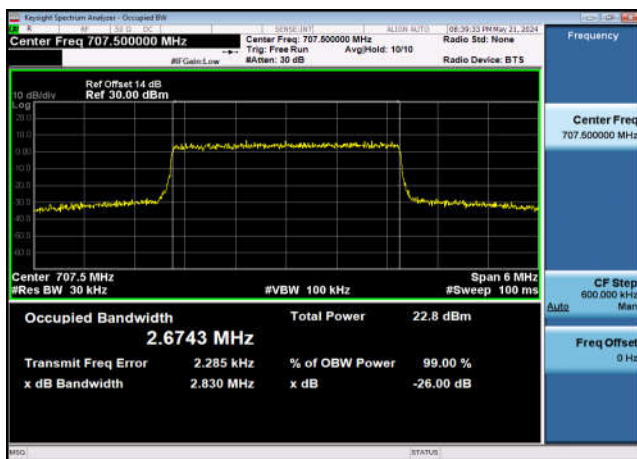
FDD12_MidRange_10_707.5_Q16



FDD12_MidRange_10_707.5_QPSK



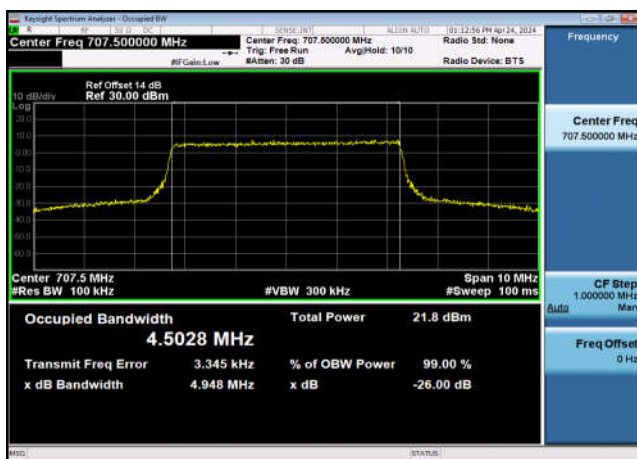
FDD12_MidRange_3_707.5_Q16



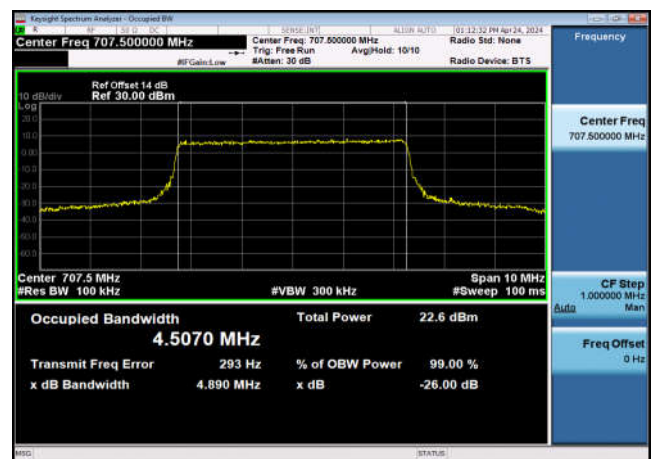
FDD12_MidRange_3_707.5_QPSK



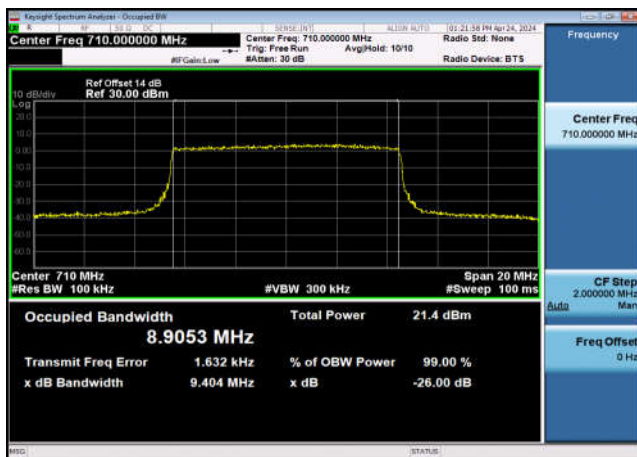
FDD12_MidRange_5_707.5_Q16



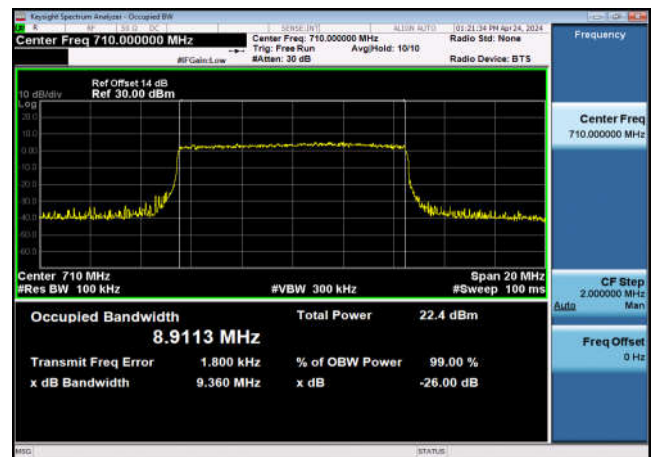
FDD12_MidRange_5_707.5_QPSK



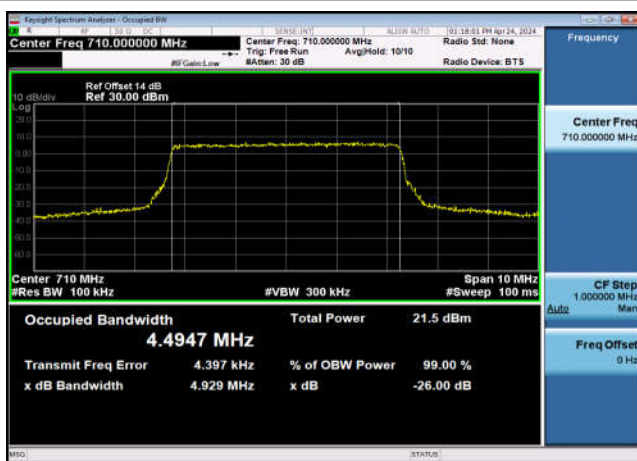
FDD17_MidRange_10_710_Q16



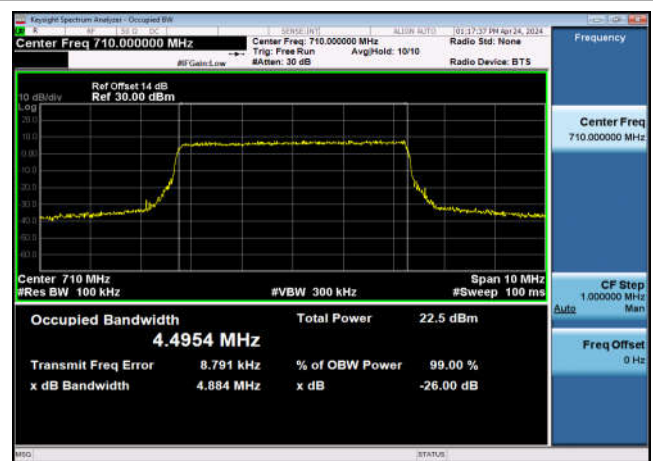
FDD17_MidRange_10_710_QPSK



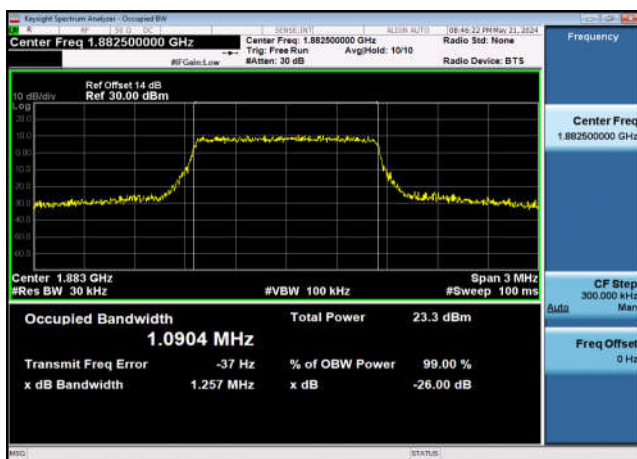
FDD17_MidRange_5_710_Q16



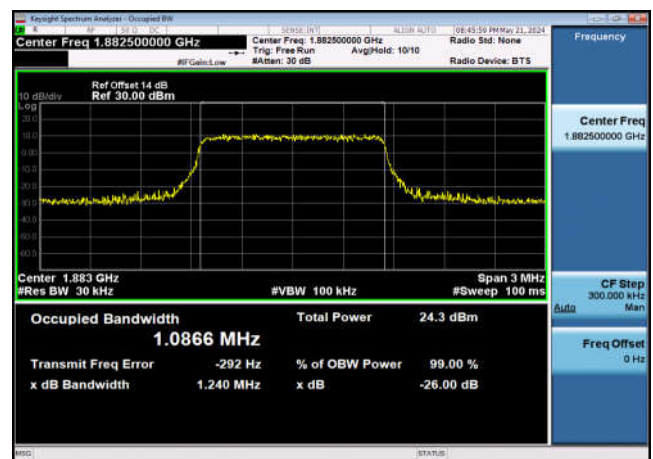
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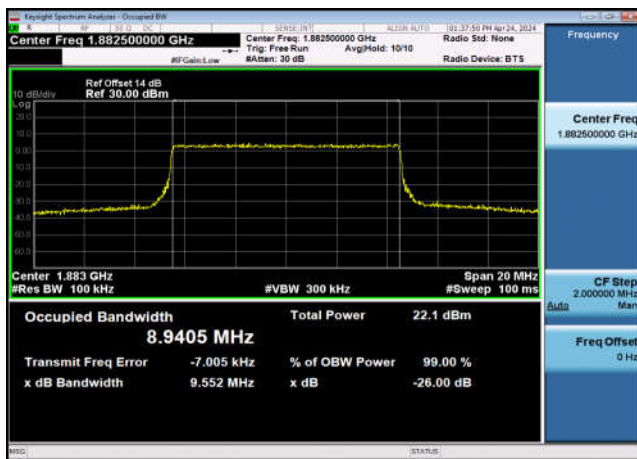
FDD25_MidRange_1.4_1882.5_Q16



FDD25_MidRange_1.4_1882.5_QPSK



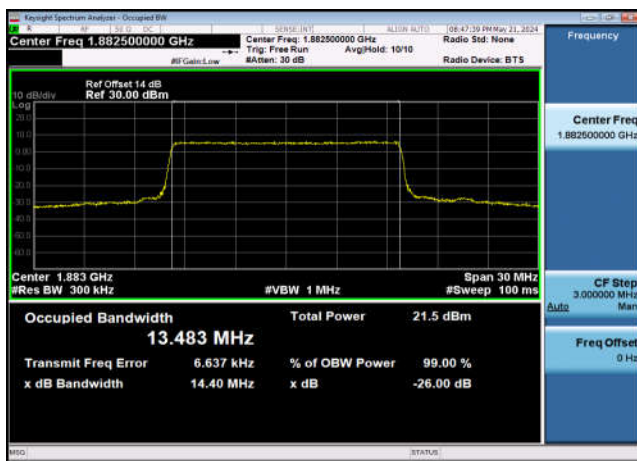
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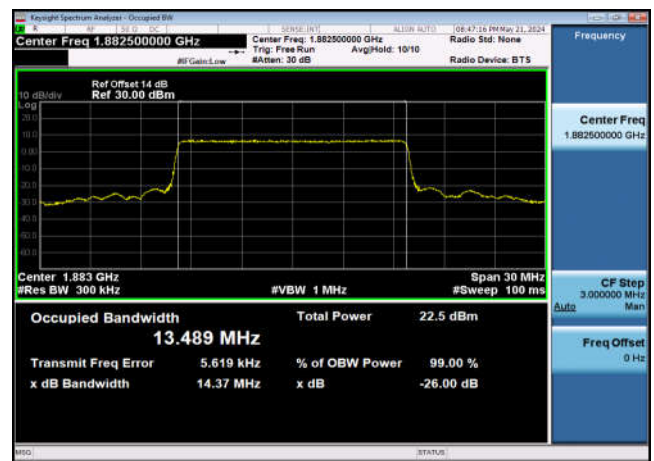
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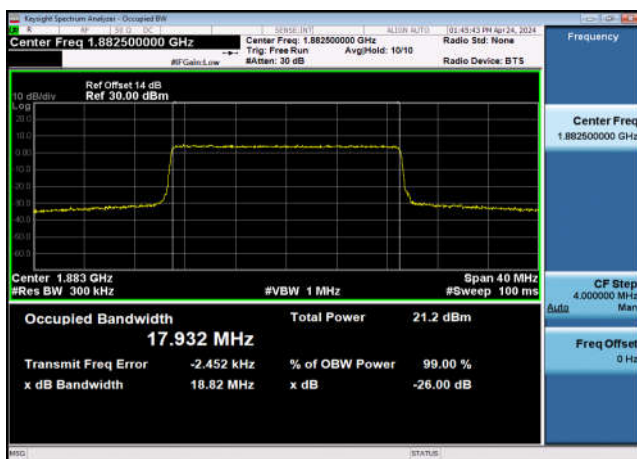
FDD25_MidRange_15_1882.5_Q16



FDD25_MidRange_15_1882.5_QPSK



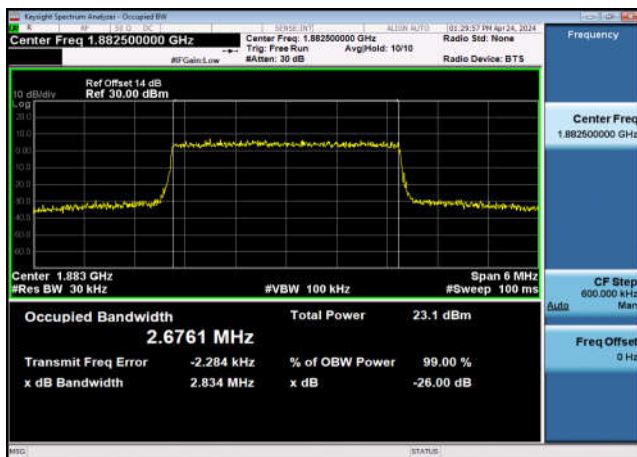
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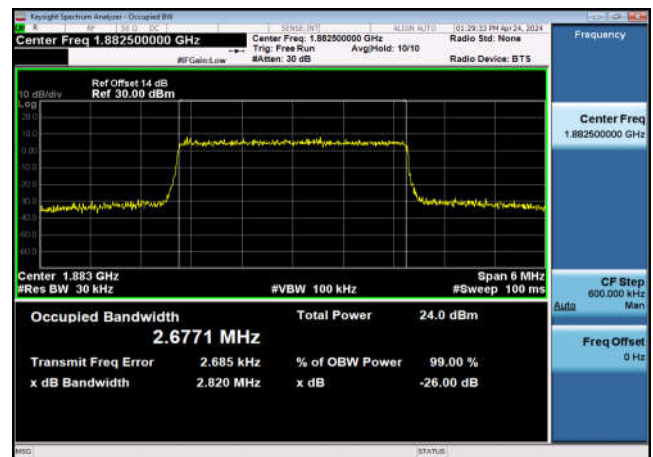
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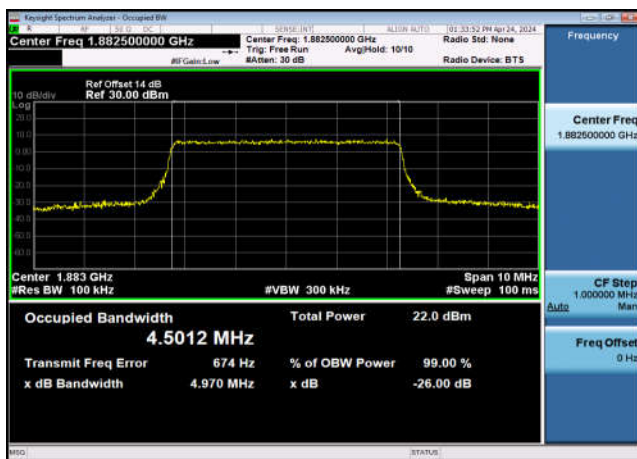
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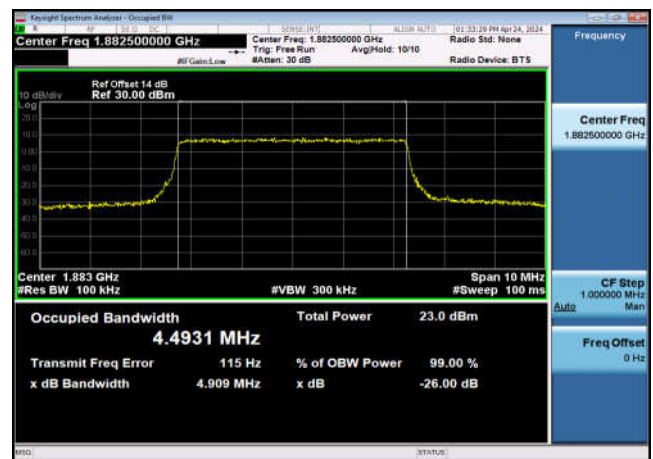
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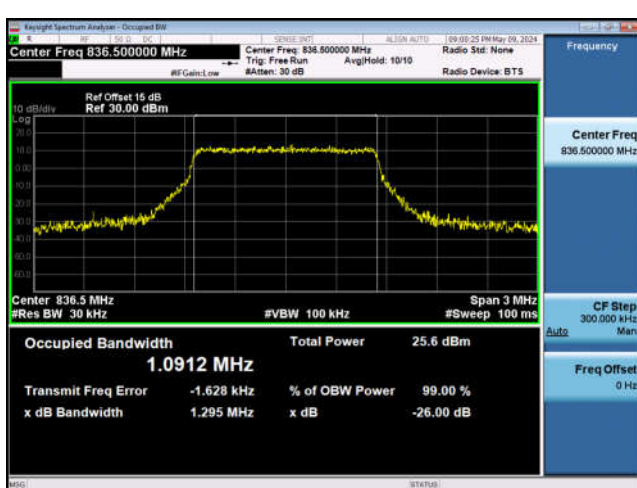
FDD25_MidRange_5_1882.5_Q16



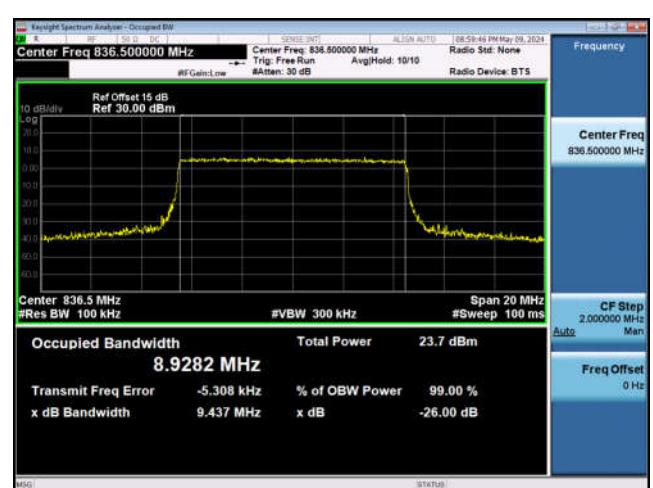
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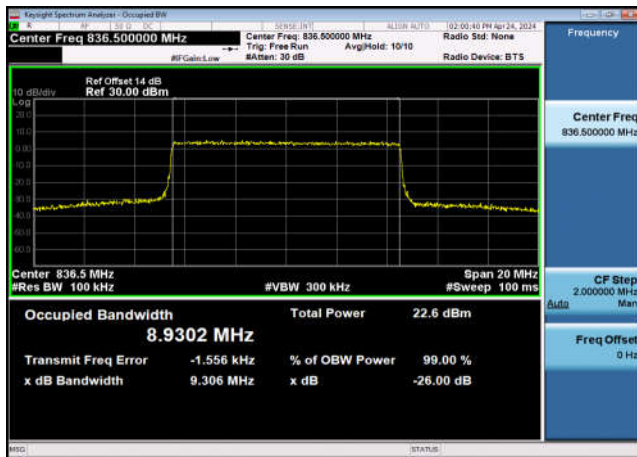
FDD26_Part 22_MidRange_1.4_836.5_Q16



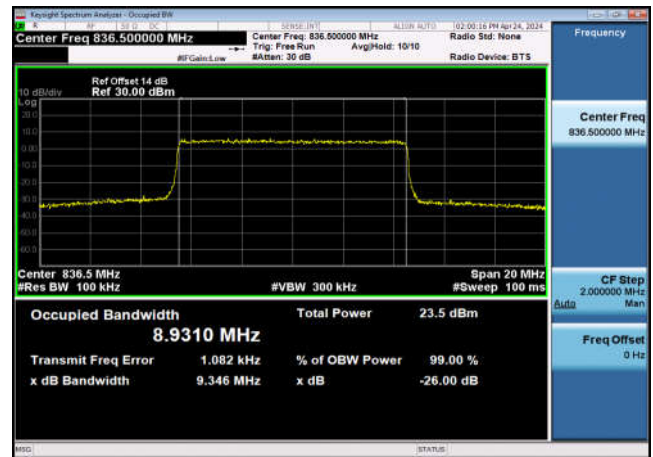
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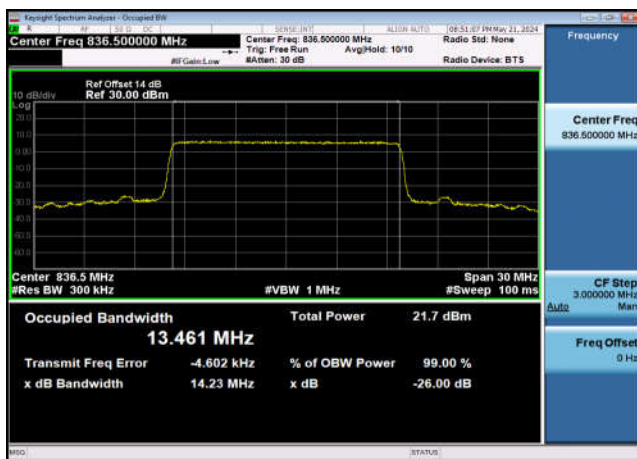
FDD26_Part 22_MidRange_10_836.5_Q16



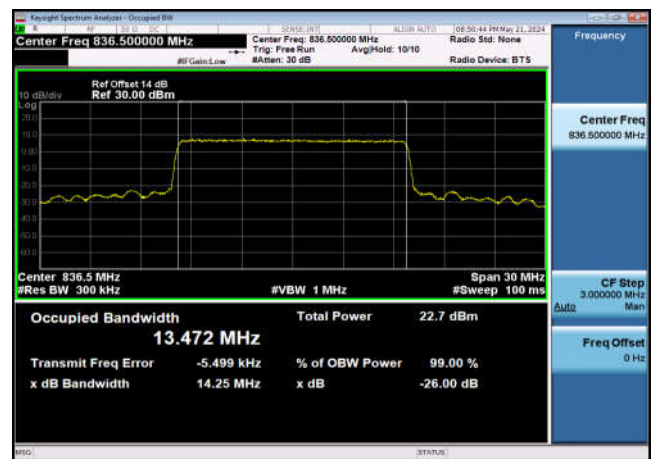
FDD26_Part 22_MidRange_10_836.5_QPSK



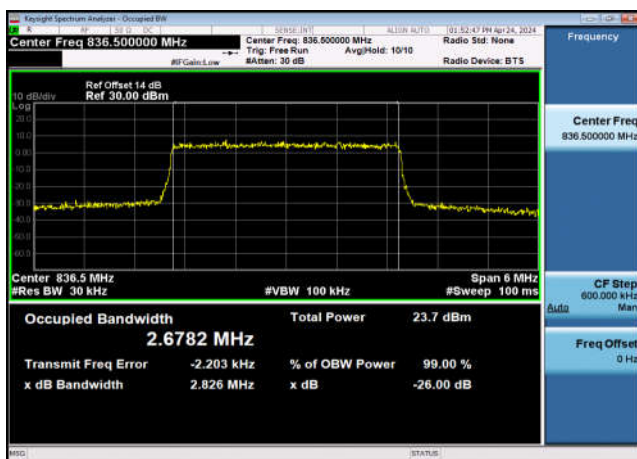
FDD26_Part 22_MidRange_15_836.5_Q16



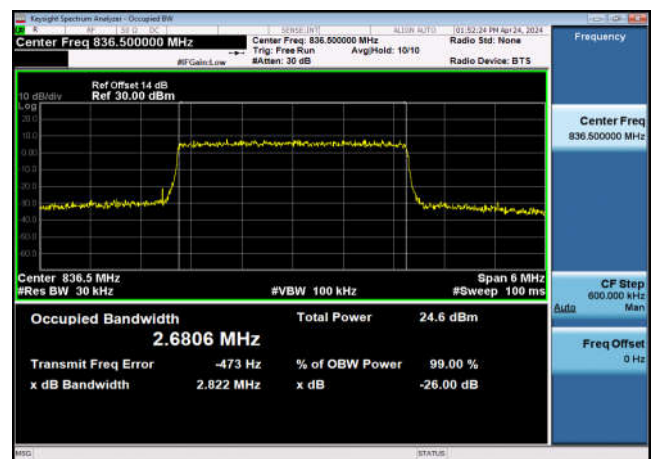
FDD26_Part 22_MidRange_15_836.5_QPSK



FDD26_Part 22_MidRange_3_836.5_Q16



FDD26_Part 22_MidRange_3_836.5_QPSK



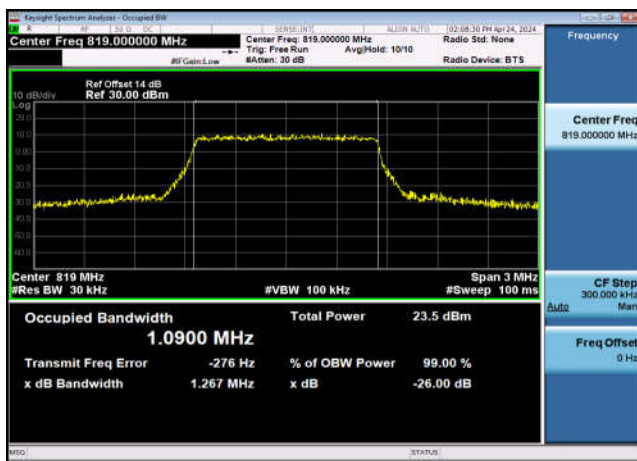
FDD26_Part 22_MidRange_5_836.5_Q16



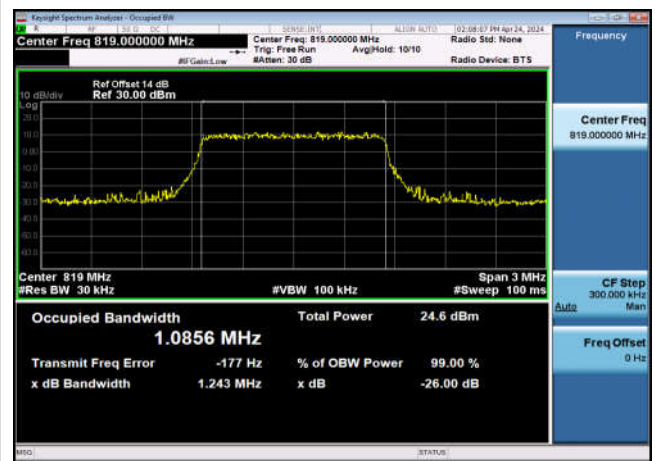
FDD26_Part 22_MidRange_5_836.5_QPSK



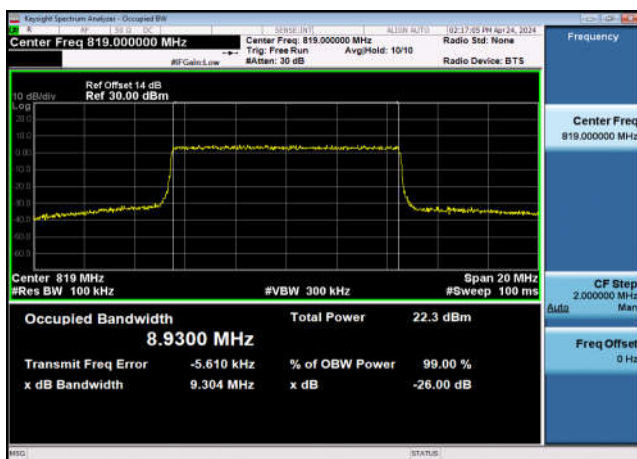
FDD26_Part 90_MidRange_1.4_819_Q16



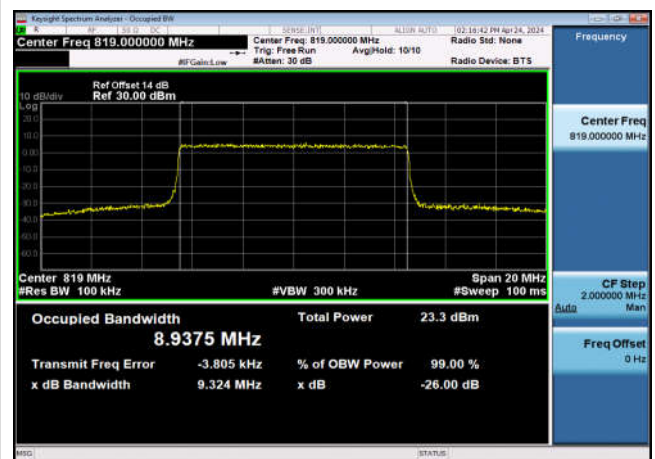
FDD26_Part 90_MidRange_1.4_819_QPSK



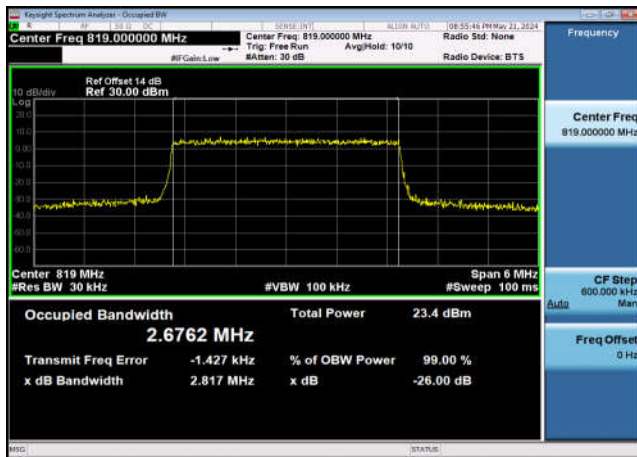
FDD26_Part 90_MidRange_10_819_Q16



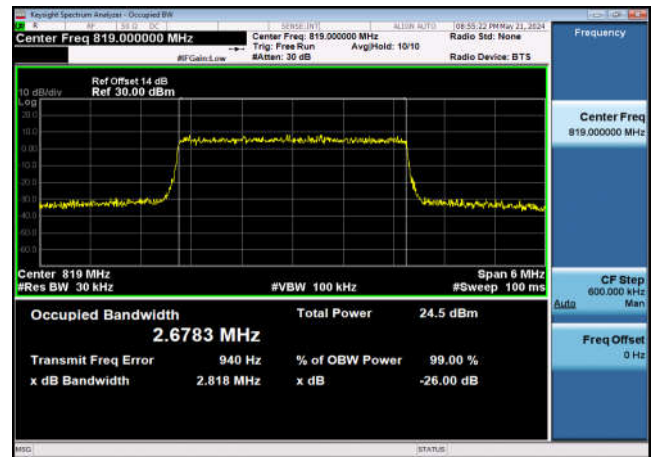
FDD26_Part 90_MidRange_10_819_QPSK



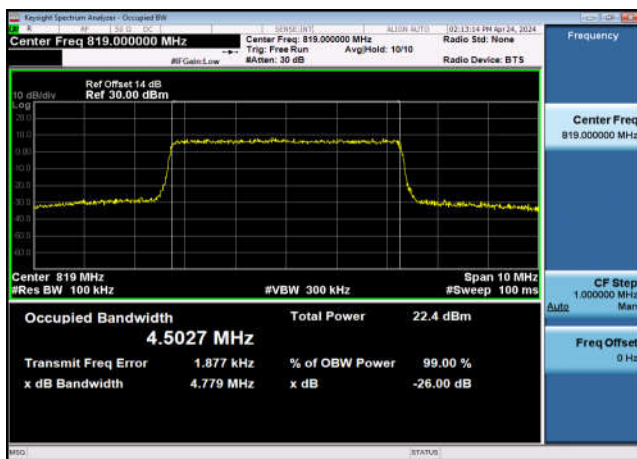
FDD26_Part 90_MidRange_3_819_Q16



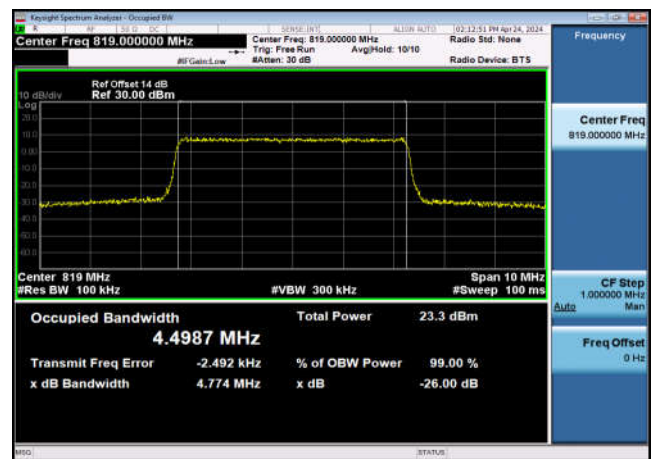
FDD26_Part 90_MidRange_3_819_QPSK



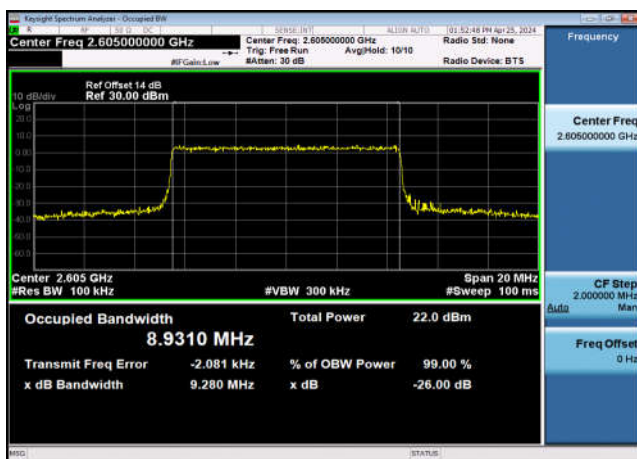
FDD26_Part 90_MidRange_5_819_Q16



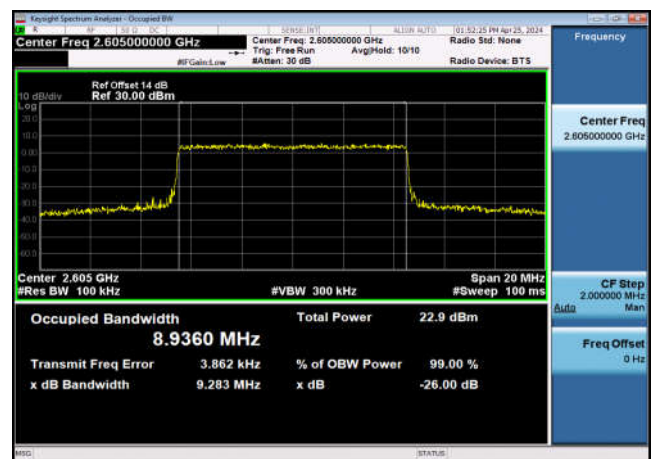
FDD26_Part 90_MidRange_5_819_QPSK



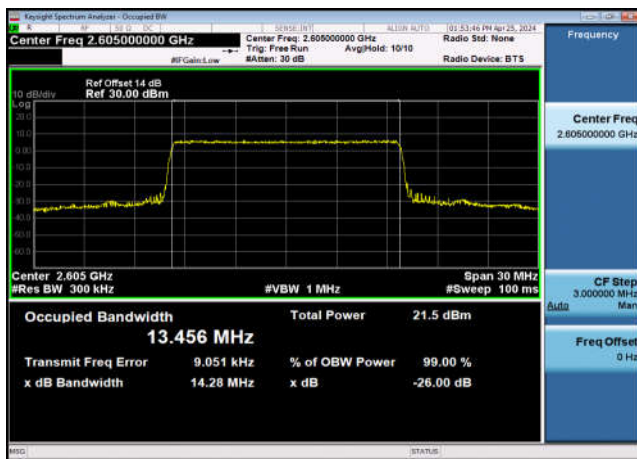
TDD41_MidRange_10_2605_Q16



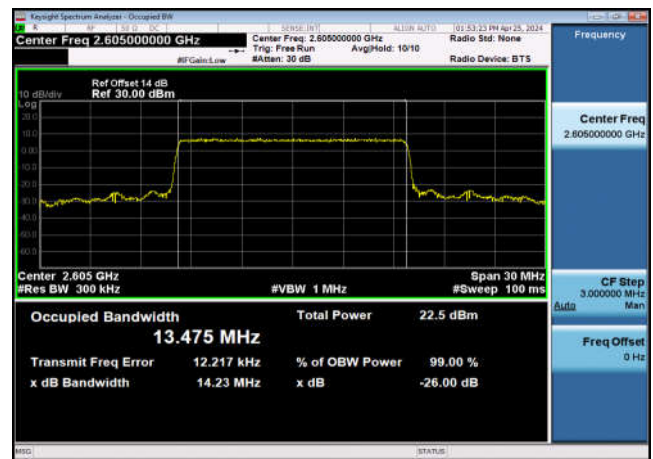
TDD41_MidRange_10_2605_QPSK



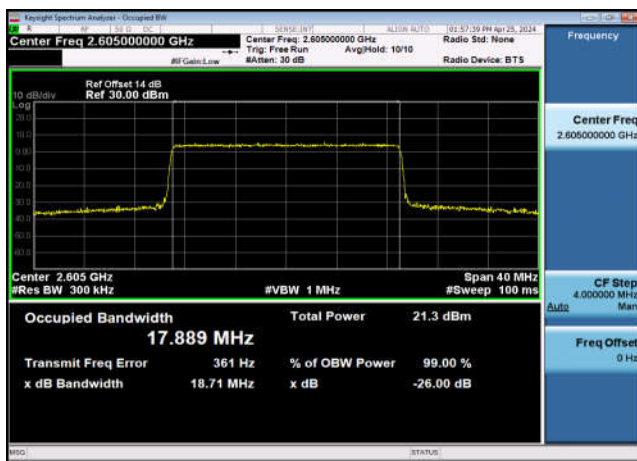
TDD41_MidRange_15_2605_Q16



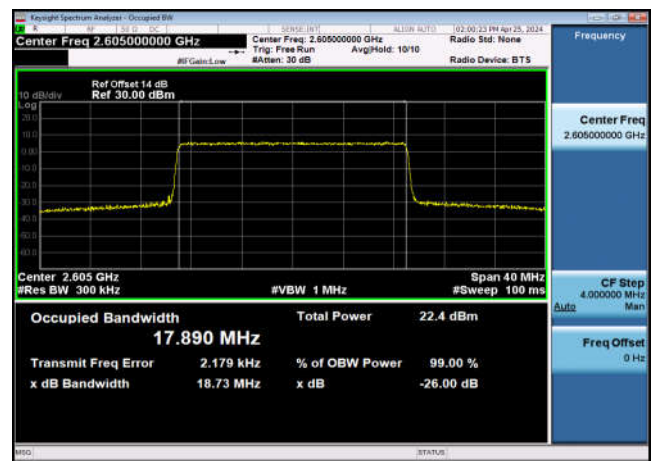
TDD41_MidRange_15_2605_QPSK



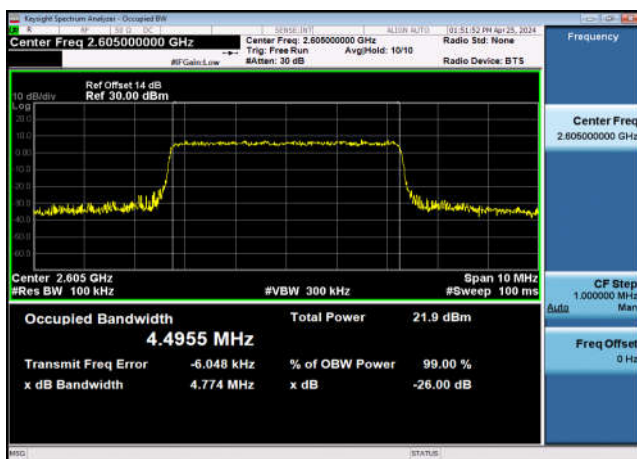
TDD41_MidRange_20_2605_Q16



TDD41_MidRange_20_2605_QPSK



TDD41_MidRange_5_2605_Q16



TDD41_MidRange_5_2605_QPSK

