



RF TEST REPORT

Report No.: 20230717G07506X-W8

Product Name: Mobile Computer

Model No.: XT40

FCC ID: UTWXT40WA

IC: 6914A-XT40WA

Applicant: Janam Technologies LLC

Address: 100 Crossways Park West Suite 105 Woodbury, NY 11797

Dates of Testing: 07/05/2023 - 08/17/2023

Issued by: CCIC Southern Testing Co., Ltd.

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

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Test Report

Product.....: Smart LTE Terminal

Brand Name.....: TELOX

Trade Name: TELOX

Applicant.....: Telo Communication (Shenzhen) Co., Ltd

Applicant Address.....: 6/F, No.42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Manufacturer.....: Telo Communication (Shenzhen) Co., Ltd

Manufacturer Address.....: 6/F, No.42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Test Standards.....: 47 CFR Part 2/22/24/27
 RSS-Gen, Issue 5: Feb 2021
 RSS-130, issue 2: Feb 2019
 RSS-132, Issue 4: Jan 2023
 RSS-133, Issue 6: Jan 2018
 RSS-139-Issue 4: Sep 2022
 RSS-199, issue 3: Dec 2016

Test Result.....: Pass

Tested by: Chuiwang Zhang 2023.08.18
 Chuiwang Zhang, Test Engineer

Reviewed by.....: Chris You 2023.08.18
 Chris You, Senior Engineer

Approved by.....: Yang Fan 2023.08.18
 Yang Fan, Manager



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Change History		
Issue	Date	Reason for change
1.0	2023.08.18	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Mobile Computer	
Model No.	XT40	
Hardware Version	SQ51Q_MB	
Software Version	XT40_CN_XX_WE_DS_R02_D_20230604	
EUT supports Radios application	LTE Band 2/4/5/7/12/13/17/25/26/38/41/66	
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 13: 777MHz~787MHz LTE Band 17: 704MHz~716MHz LTE Band 25: 1850MHz~1915MHz	LTE Band 26(FCC Part 22/90): 814MHz~849MHz LTE Band 26(RSS-132): 824MHz~849MHz LTE Band 38: 2570MHz~2620MHz LTE Band 41: 2555MHz~2655MHz LTE Band 66: 1710MHz~1780MHz
Channel Bandwidth	LTE Band 2/4/25/66: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5/12/26(Part 90): 1.4MHz/3MHz/5MHz/10MHz LTE Band 7/38/41: 5MHz/10MHz/15MHz/20MHz LTE Band 13/17: 5MHz/10MHz LTE Band 26(Part 22&RSS132): 1.4MHz/3MHz/5MHz/10MHz/15MHz	
Modulation Type	QPSK/16QAM/64QAM(downlink only)	
Maximum ERP/EIRP	LTE Band 2: 26.63dBm LTE Band 4: 26.97dBm LTE Band 5: 21.20dBm LTE Band 7: 24.49dBm LTE Band 12: 18.63dBm LTE Band 13: 18.61dBm LTE Band 17: 18.00dBm	LTE Band 25: 26.55.50dBm LTE Band 26(Part 22&RSS-132): 21.14dBm LTE Band 26(Part 90): 21.19dBm LTE Band 38: 24.51dBm LTE Band 41: 24.24dBm LTE Band 66: 26.71dBm
Antenna Type	Internal Antenna	
Antenna gain	LTE Band 2/25: 2.65dBi LTE Band 4/66: 3.06dBi LTE Band 5/26: -0.33dBi LTE Band 7/38/41: 0.83dBi	LTE Band 12: -2.87dBi LTE Band 13: -2.79dBi LTE Band 17: -3.41dBi
Power supply	Rechargeable Li-ion Polymer Battery DC 3.85V/4500mAh	

Note: LTE Band 26 (814MHz~824MHz) does not belong to the IC band and all IC are not tested.

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	—	0.432
LTE Band 2	16QAM	1.4	1M09W7D	—	0.375
LTE Band 2	QPSK	3	2M68G7D	—	0.442
LTE Band 2	16QAM	3	2M68W7D	—	0.425
LTE Band 2	QPSK	5	4M50G7D	—	0.434
LTE Band 2	16QAM	5	4M49W7D	—	0.354
LTE Band 2	QPSK	10	8M93G7D	0.004	0.460
LTE Band 2	16QAM	10	8M92W7D	—	0.388
LTE Band 2	QPSK	15	13M4G7D	—	0.451
LTE Band 2	16QAM	15	13M4W7D	—	0.394
LTE Band 2	QPSK	20	17M9G7D	—	0.432
LTE Band 2	16QAM	20	17M9W7D	—	0.356
LTE Band 4	QPSK	1.4	1M09G7D	—	0.474
LTE Band 4	16QAM	1.4	1M09W7D	—	0.399
LTE Band 4	QPSK	3	2M68G7D	—	0.467
LTE Band 4	16QAM	3	2M68W7D	—	0.389
LTE Band 4	QPSK	5	4M49G7D	—	0.498
LTE Band 4	16QAM	5	4M49W7D	—	0.366
LTE Band 4	QPSK	10	8M92G7D	0.005	0.475
LTE Band 4	16QAM	10	8M90W7D	—	0.378
LTE Band 4	QPSK	15	13M4G7D	—	0.467
LTE Band 4	16QAM	15	13M4W7D	—	0.422
LTE Band 4	QPSK	20	17M8G7D	—	0.473
LTE Band 4	16QAM	20	17M8W7D	—	0.435
LTE Band 7	QPSK	5	4M49G7D	—	0.261
LTE Band 7	16QAM	5	4M49W7D	—	0.217
LTE Band 7	QPSK	10	8M91G7D	0.007	0.277
LTE Band 7	16QAM	10	8M91W7D	—	0.239
LTE Band 7	QPSK	15	13M4G7D	—	0.275



LTE Band 7	16QAM	15	13M4W7D	—	0.231
LTE Band 7	QPSK	20	17M9G7D	—	0.281
LTE Band 7	16QAM	20	17M8W7D	—	0.236
LTE Band 25	QPSK	1.4	1M09G7D	—	0.429
LTE Band 25	16QAM	1.4	1M09W7D	—	0.394
LTE Band 25	QPSK	3	2M68G7D	—	0.446
LTE Band 25	16QAM	3	2M68W7D	—	0.372
LTE Band 25	QPSK	5	4M49G7D	—	0.446
LTE Band 25	16QAM	5	4M49W7D	—	0.356
LTE Band 25	QPSK	10	8M92G7D	0.004	0.437
LTE Band 25	16QAM	10	8M91W7D	—	0.355
LTE Band 25	QPSK	15	13M4G7D	—	0.431
LTE Band 25	16QAM	15	13M4W7D	—	0.360
LTE Band 25	QPSK	20	17M9G7D	—	0.452
LTE Band 25	16QAM	20	17M8W7D	—	0.380
LTE Band 38	QPSK	5	4M49G7D	—	0.282
LTE Band 38	16QAM	5	4M48W7D	—	0.216
LTE Band 38	QPSK	10	8M92G7D	0.007	0.259
LTE Band 38	16QAM	10	8M90W7D	—	0.210
LTE Band 38	QPSK	15	13M4G7D	—	0.262
LTE Band 38	16QAM	15	13M4W7D	—	0.211
LTE Band 38	QPSK	20	17M8G7D	—	0.272
LTE Band 38	16QAM	20	17M9W7D	—	0.230
LTE Band 41	QPSK	5	4M48G7D	—	0.238
LTE Band 41	16QAM	5	4M48W7D	—	0.209
LTE Band 41	QPSK	10	8M91G7D	0.008	0.237
LTE Band 41	16QAM	10	8M92W7D	—	0.216
LTE Band 41	QPSK	15	13M4G7D	—	0.247
LTE Band 41	16QAM	15	13M4W7D	—	0.199
LTE Band 41	QPSK	20	17M8G7D	—	0.265
LTE Band 41	16QAM	20	17M8W7D	—	0.221
LTE Band 66	QPSK	1.4	1M09G7D	—	0.469



LTE Band 66	16QAM	1.4	1M09W7D	—	0.386
LTE Band 66	QPSK	3	2M68G7D	—	0.461
LTE Band 66	16QAM	3	2M68W7D	—	0.386
LTE Band 66	QPSK	5	4M49G7D	—	0.438
LTE Band 66	16QAM	5	4M49W7D	—	0.356
LTE Band 66	QPSK	10	8M92G7D	0.003	0.469
LTE Band 66	16QAM	10	8M91W7D	—	0.419
LTE Band 66	QPSK	15	13M4G7D	—	0.451
LTE Band 66	16QAM	15	13M4W7D	—	0.375
LTE Band 66	QPSK	20	17M9G7D	—	0.465
LTE Band 66	16QAM	20	17M9W7D	—	0.378



Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 5	QPSK	1.4	1M09G7D	—	0.132
LTE Band 5	16QAM	1.4	1M09W7D	—	0.108
LTE Band 5	QPSK	3	2M68G7D	—	0.127
LTE Band 5	16QAM	3	2M68W7D	—	0.108
LTE Band 5	QPSK	5	4M48G7D	—	0.127
LTE Band 5	16QAM	5	4M49W7D	—	0.096
LTE Band 5	QPSK	10	8M94G7D	0.006	0.129
LTE Band 5	16QAM	10	8M91W7D	—	0.107
LTE Band 12	QPSK	1.4	1M09G7D	—	0.072
LTE Band 12	16QAM	1.4	1M09W7D	—	0.059
LTE Band 12	QPSK	3	2M68G7D	—	0.073
LTE Band 12	16QAM	3	2M68W7D	—	0.060
LTE Band 12	QPSK	5	4M49G7D	—	0.071
LTE Band 12	16QAM	5	4M49W7D	—	0.060
LTE Band 12	QPSK	10	8M92G7D	0.005	0.071
LTE Band 12	16QAM	10	8M91W7D	—	0.059
LTE Band 13	QPSK	5	4M49G7D	—	0.071
LTE Band 13	16QAM	5	4M49W7D	—	0.061
LTE Band 13	QPSK	10	8M93G7D	0.005	0.073
LTE Band 13	16QAM	10	8M92W7D	—	0.060
LTE Band 17	QPSK	5	4M49G7D	—	0.059
LTE Band 17	16QAM	5	4M49W7D	—	0.051
LTE Band 17	QPSK	10	8M92G7D	0.009	0.063
LTE Band 17	16QAM	10	8M91W7D	—	0.062

LTE Band 26(Part 22&RSS-132):

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 26	QPSK	1.4	1M10G7D	—	0.126
LTE Band 26	16QAM	1.4	1M09W7D	—	0.106
LTE Band 26	QPSK	3	2M68G7D	—	0.129
LTE Band 26	16QAM	3	2M68W7D	—	0.107
LTE Band 26	QPSK	5	4M49G7D	—	0.127
LTE Band 26	16QAM	5	4M49W7D	—	0.104
LTE Band 26	QPSK	10	8M92G7D	0.005	0.130
LTE Band 26	16QAM	10	8M91W7D	—	0.106
LTE Band 26	QPSK	15	13M4G7D	—	0.128
LTE Band 26	16QAM	15	13M4W7D	—	0.107

LTE Band 26(Part 90):

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 26	QPSK	1.4	1M09G7D	—	0.132
LTE Band 26	16QAM	1.4	1M09W7D	—	0.104
LTE Band 26	QPSK	3	2M68G7D	—	0.128
LTE Band 26	16QAM	3	2M68W7D	—	0.111
LTE Band 26	QPSK	5	4M49G7D	—	0.127
LTE Band 26	16QAM	5	4M49W7D	—	0.104
LTE Band 26	QPSK	10	8M91G7D	0.006	0.129
LTE Band 26	16QAM	10	8M90W7D	—	0.108



1.3. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC/IC 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	RSS-Gen-Issue 5: Feb 2021	General Requirements for Compliance of Radio Apparatus
6	RSS-130-Issue 2: Feb 2019	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz
7	RSS-132-Issue 4: Jan 2023	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
8	RSS-133, Issue 6: Jan 2018	2 GHz Personal Communications Services
9	RSS-139-Issue 4: Sep 2022	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz
10	RSS-199-Issue 3: Dec 2016	Broadband Radio Service (BRS) Equipment Operating in the Band 2500 - 2690 MHz
11	KDB 971168 D01 Power Meas License Digital Systems v03r01	Measurement Guidance For Certification of Licensed Digital Transmitters
12	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
13	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
14	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services



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

No.	FCC Rule	IC Rule	Description	Limit	Result
1	2.1046	RSS-GEN,6.12	Conducted Output Power	Reporting Only	PASS
2	22.913(d) 24.232 (d) 27.50 (d)(5)	RSS-130, 4.6 RSS-132, 5.4 RSS-133, 6.4 RSS-139, 6.5 RSS-199, 4.4	Peak to Average Ratio	< 13dB	PASS
3	24.232 (c)	RSS-133, 6.4	Equivalent Isotropic Radiated Power (Band 2/25)	EIRP < 2W	PASS
	22.913 (a)(5)	RSS-132, 5.4	Effective Radiated Power (FCC Band 5/26_Part 22&RSS-132)	ERP < 7W	PASS
	27.50 (c)(10)	RSS-130,4.6.3	Effective Radiated Power (Band 12/17)	ERP < 3W	PASS
	27.50 (b)(10)	RSS-130,4.6.3	Effective Radiated Power (Band 13)	ERP < 3W	PASS
	27.50 (d)(4)	RSS-139,6.5	Equivalent Isotropic Radiated Power (Band 4/66)	EIRP < 1W	PASS
	27.50 (h)(2)	RSS-199,4.4	Equivalent Isotropic Radiated Power (Band 7/38/41)	EIRP < 2W	PASS
	90.635 (b)	/	Effective Radiated Power (Band 26_Part 90)	ERP < 100W	PASS
4	2.1049	RSS-GEN,6.7	Occupied Bandwidth	Reporting Only	PASS
5	2.1051 22.917 (a) 24.238 (a) 27.53 (c)	RSS-GEN, 6.13 RSS-130,4.7 RSS-132,5.5 RSS-133,6.5 RSS-139,5.6 RSS-199,4.5	Conducted Spurious Emission and Conducted Band Edge (Band 2/4/5/12/13/17/25/26/66)	< 43+10log ₁₀ (P[watt])	PASS
	27.53 (g) 27.53 (h) 27.53 (m)(4)		Conducted Spurious Emission and Conducted Band Edge (Band 7/38/41)	Refer to 27.53(m)(4)	PASS
6	2.1053 22.917 (a) 24.238 (a) 27.53 (c)	RSS-GEN, 6.13 RSS-130,4.7 RSS-132,5.5 RSS-133,6.5 RSS-139,5.6 RSS-199,4.5	Radiated Spurious Emission (Band Band 2/4/5/12/13/17/25/26/66)	< 43+10log ₁₀ (P[Watts])	PASS
	27.53 (g) 27.53 (h) 27.53 (m)(4)		Radiated Spurious Emission (Band 7/38/41)	< 55+10log ₁₀ (P[watt])	PASS



7	2.1055 22.335 24.235 27.54 90.213(a)	RSS-GEN,6.11 RSS-132,5.3 RSS-133,6.3 RSS-130,4.5 RSS-139,5.4 RSS-199, 4.3	Frequency Stability (FCC Band 5/26) (IC Band 2/25)	< ±2.5ppm	PASS
			Frequency Stability (FCC Band 2/4/7/12/13/17/25/38/41/66) (IC Band 4/5/7/12/13/17/26/38/41/66)	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 and ICES-003 Issue 7 October 2020, 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4/66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5/12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7/38/41			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	13/17			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 90)	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2/25						✓		✓	✓		✓	✓	✓	✓
	4/66						✓		✓	✓		✓	✓	✓	✓
	5/12				✓				✓	✓		✓	✓	✓	✓
	7/38/41						✓		✓	✓		✓	✓	✓	✓
	13/17				✓				✓	✓		✓	✓	✓	✓
	26 (Part 22)				✓				✓	✓		✓	✓	✓	✓
	26 (Part 90)				✓				✓	✓		✓	✓	✓	✓
99% OBW and 26dB EBW	2/25	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4/66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5/12	✓	✓	✓	✓			✓	✓			✓		✓	
	7/38/41			✓	✓	✓	✓	✓	✓			✓		✓	
	13/17			✓	✓			✓	✓			✓		✓	
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓			✓		✓	
	26 (Part 90)	✓	✓	✓	✓			✓	✓			✓		✓	
Conducted Band Edge	2/25	✓					✓	✓	✓	✓		✓	✓		✓
	4/66	✓					✓	✓	✓	✓		✓	✓		✓
	5/12	✓			✓			✓	✓	✓		✓	✓		✓
	7/38/41			✓			✓	✓	✓	✓		✓	✓		✓
	13/17			✓	✓			✓	✓	✓		✓	✓		✓
	26 (Part 22)	✓				✓		✓	✓	✓		✓	✓		✓
	26 (Part 90)	✓			✓			✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	2/25						✓	✓		✓			✓	✓	✓
	4/66						✓	✓		✓			✓	✓	✓



	5/12				✓			✓		✓			✓	✓	✓
	7/38/41						✓	✓		✓			✓	✓	✓
	13/17				✓			✓		✓			✓	✓	✓
	26 (Part 22)				✓			✓		✓			✓	✓	✓
	26 (Part 90)				✓			✓		✓			✓	✓	✓
Frequency Stability	2/25				✓			✓				✓		✓	
	4/66				✓			✓				✓		✓	
	5/12				✓			✓				✓		✓	
	7/38/41				✓			✓				✓		✓	
	13/17				✓			✓				✓		✓	
	26 (Part 22)				✓			✓				✓		✓	
	26 (Part 90)				✓			✓				✓		✓	
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case												✓	
	12	Worst case												✓	
	13	Worst case												✓	
	17	Worst case												✓	
	25	Worst case												✓	
	26 (Part 22)	Worst case												✓	
	26 (Part 90)	Worst case												✓	
	38	Worst case												✓	
	41	Worst case												✓	
66	Worst case												✓		

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

1.5. Measurement Results Explanation Example

For all conduction test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + Power Splitter + attenuator factor..

Following shows an offset computation example with cable loss 1dB, 3dB Power Splitter, 10dB attenuator.

Example: Offset (dB) = RF cable loss(dB) + Power Splitter(dB) + attenuator factor(dB).

$$= 1 + 3 + 10 = 14 \text{ (dB)}$$



1.6. Laboratory Facilities

FCC-Registration No.: 406086

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 Sep. 30th, 2023.

ISED Registration: 11185A

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 Sep. 30th, 2023.

CAB number: CN0064

A2LA Code: 5721.01

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

1.7. 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 and RSS-Gen 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 2/7/25/38/41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4/66.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5/26(Part 22&RSS-132).

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12/13/17.

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

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;

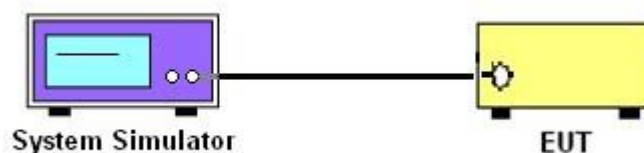
G_T = gain of the transmitting antenna in dBi;

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

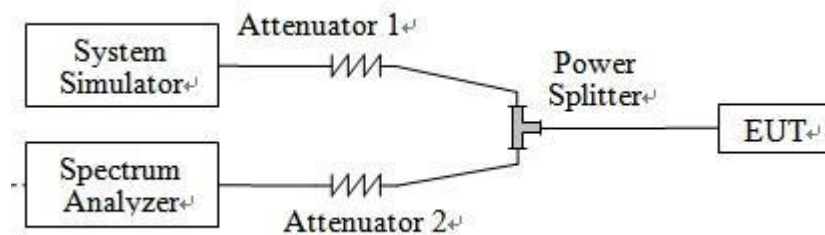
Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement 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

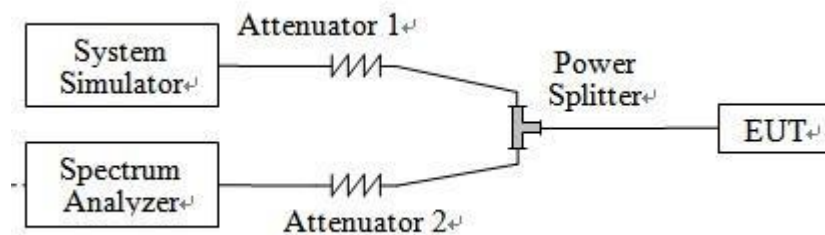
The Occupied Bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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 & 66 [Part 27.53 (h) and RSS-139, 5.6]:

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) and RSS-132, 5.5]:

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 12 & 17 [Part 27.53 (g) and RSS-130, 4.7.1]:

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

For Band 13 [Part 27.53 (c) and RSS-130, 4.7]:

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

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

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution



bandwidth of at least 30 kHz may be employed;

For Band 7 & 38 & 41 [Part 27.53 (m)(4) and RSS-199, 4.5]:

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 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:

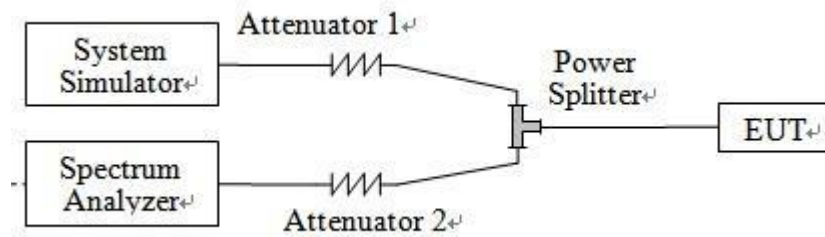
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever 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 $43 + 10 \text{ Log}_{10}(P)$ 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 & 13 & 17 & 25 & 26 & 66:

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 operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

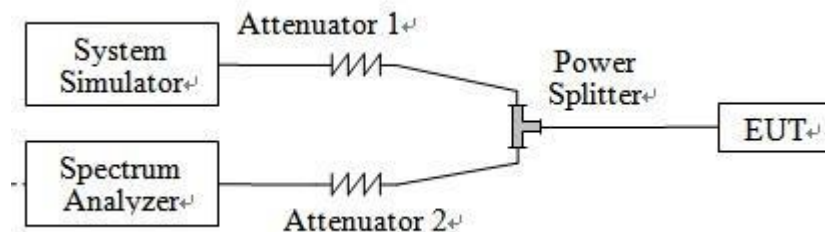
For Band 7 & 38 & 41:

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.

2.5.2. 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 & 25 & 26 & 66:

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:

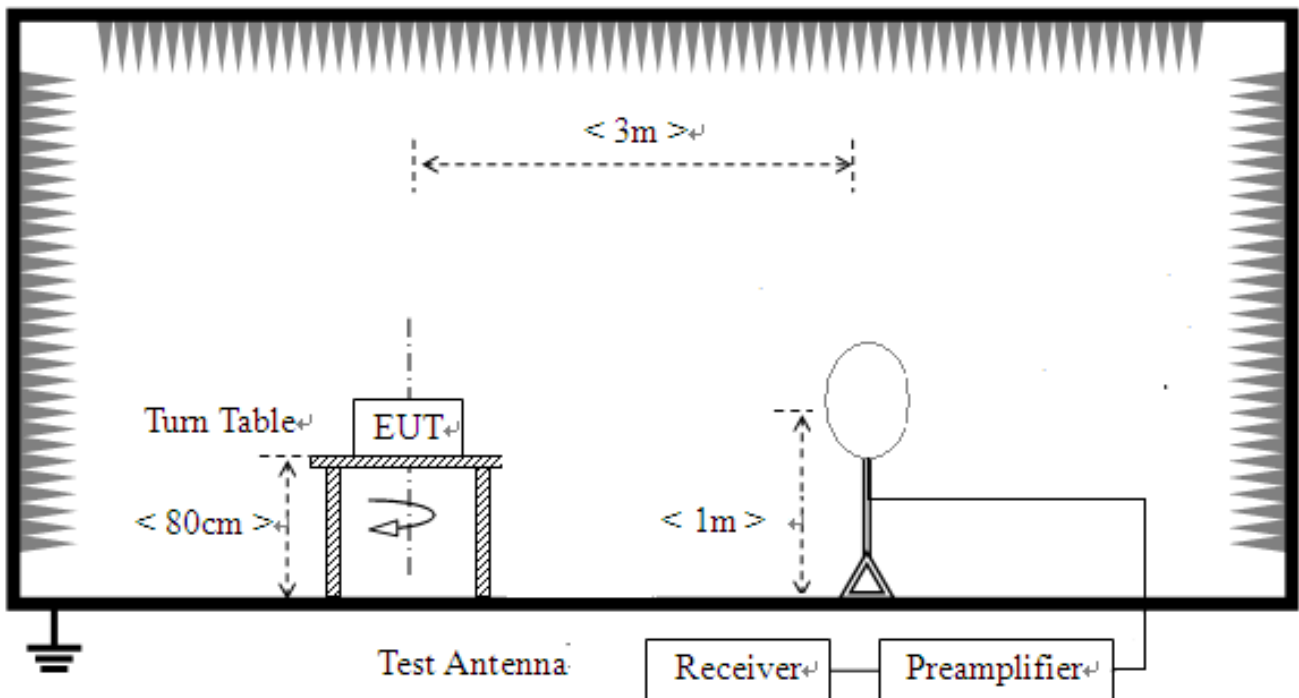
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.6.2. Measuring Instruments

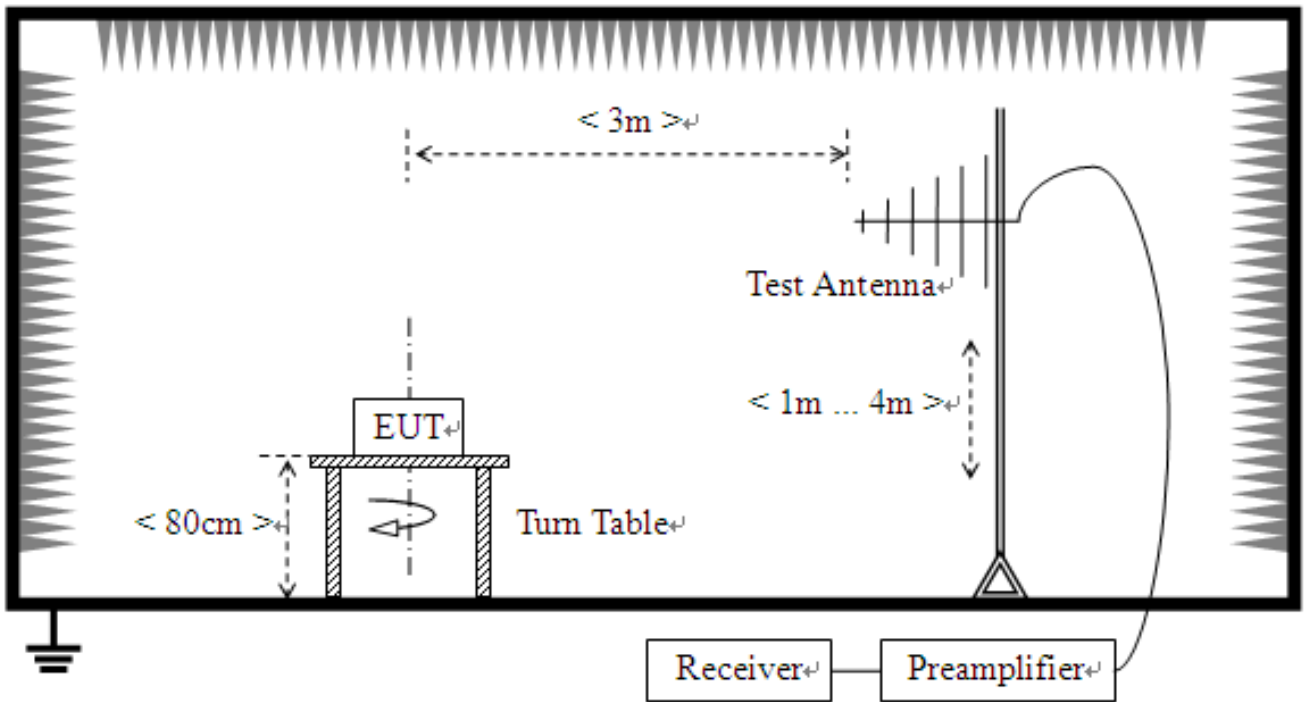
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

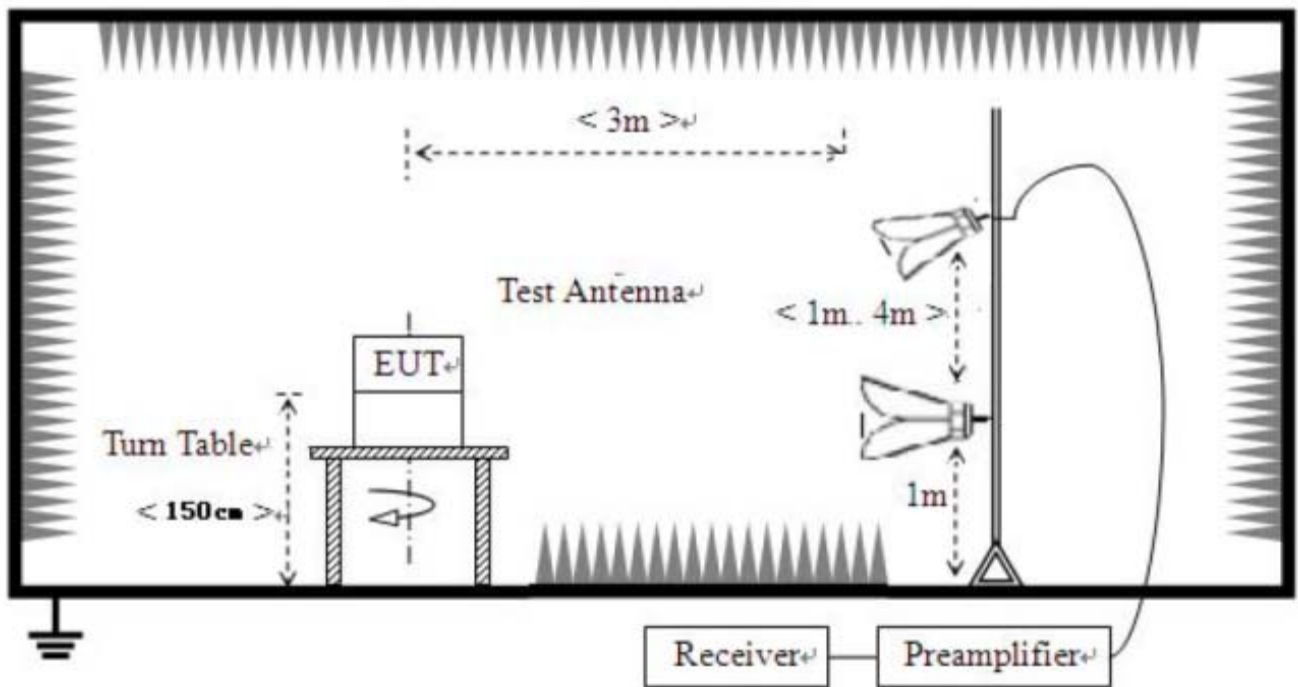
For radiated emissions from 9kHz to 30MHz



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	646.258	-104.17	-69.60	-13.00	56.60	34.57	Horizontal
2	786.978	-104.69	-68.52	-13.00	55.52	36.17	Horizontal
3	1405.22	-56.74	-59.03	-13.00	46.03	-2.29	Horizontal
4	5072.62	-58.99	-44.49	-13.00	31.49	14.50	Horizontal
5	7686.85	-59.90	-40.55	-13.00	27.55	19.35	Horizontal
6	17179.4	-64.78	-36.61	-13.00	23.61	28.17	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	497.773	-105.58	-75.13	-13.00	62.13	30.45	Vertical
2	843.751	-104.02	-68.53	-13.00	55.53	35.49	Vertical
3	1366.51	-56.61	-58.92	-13.00	45.92	-2.31	Vertical
4	4893.41	-58.79	-44.04	-13.00	31.04	14.75	Vertical
5	7671.90	-59.15	-39.75	-13.00	26.75	19.40	Vertical
6	17119.6	-64.54	-36.62	-13.00	23.62	27.92	Vertical

LTE Band 4 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	515.727	-104.61	-72.20	-13.00	59.20	32.41	Horizontal
2	677.798	-104.94	-70.32	-13.00	57.32	34.62	Horizontal
3	842.781	-104.43	-67.30	-13.00	54.30	37.13	Horizontal
4	1415.82	-57.88	-60.14	-13.00	47.14	-2.26	Horizontal
5	2983.59	-57.24	-50.88	-13.00	37.88	6.36	Horizontal
6	4931.74	-58.66	-44.09	-13.00	31.09	14.57	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	496.318	-104.02	-73.61	-13.00	60.61	30.41	Vertical
2	775.332	-104.60	-68.59	-13.00	55.59	36.01	Vertical
3	1362.41	-57.65	-59.97	-13.00	46.97	-2.32	Vertical
4	4866.64	-58.70	-43.96	-13.00	30.96	14.74	Vertical
5	7560.35	-59.58	-39.94	-13.00	26.94	19.64	Vertical
6	16943.6	-63.99	-37.19	-13.00	24.19	26.80	Vertical



LTE Band 5 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	656.933	-104.15	-69.33	-13.00	56.33	34.82	Horizontal
2	1374.01	-57.71	-60.03	-13.00	47.03	-2.32	Horizontal
3	2923.59	-56.33	-50.24	-13.00	37.24	6.09	Horizontal
4	4835.31	-58.59	-43.85	-13.00	30.85	14.74	Horizontal
5	7529.30	-59.74	-40.09	-13.00	27.09	19.65	Horizontal
6	17343.3	-64.77	-35.73	-13.00	22.73	29.04	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-92.09	-70.62	-13.00	57.62	21.47	Vertical
2	560.370	-104.83	-73.05	-13.00	60.05	31.78	Vertical
3	1537.32	-56.74	-58.43	-13.00	45.43	-1.69	Vertical
4	3011.37	-57.87	-50.52	-13.00	37.52	7.35	Vertical
5	4797.86	-58.51	-43.80	-13.00	30.80	14.71	Vertical
6	17402.5	-64.61	-35.28	-13.00	22.28	29.33	Vertical

LTE Band 7 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	819.399	-104.35	-67.30	-25.00	42.30	37.05	Horizontal
2	1838.41	-68.61	-65.81	-25.00	40.81	2.80	Horizontal
3	3687.71	-58.65	-50.95	-25.00	25.95	7.70	Horizontal
4	5082.66	-57.87	-43.33	-25.00	18.33	14.54	Horizontal
5	7496.99	-60.17	-40.05	-25.00	15.05	20.12	Horizontal
6	12593.9	-61.90	-36.01	-25.00	11.01	25.89	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	778.618	-105.35	-69.31	-25.00	44.31	36.04	Vertical
2	1874.43	-68.91	-65.86	-25.00	40.86	3.05	Vertical
3	3965.73	-59.48	-50.64	-25.00	25.64	8.84	Vertical
4	4999.74	-58.79	-44.61	-25.00	19.61	14.18	Vertical
5	7545.77	-60.68	-40.75	-25.00	15.75	19.93	Vertical
6	12525.6	-62.34	-35.95	-25.00	10.95	26.39	Vertical

LTE Band 12 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	493.891	-104.64	-72.45	-13.00	59.45	32.19	Horizontal
2	1609.53	-57.82	-58.97	-13.00	45.97	-1.15	Horizontal
3	3026.42	-57.00	-49.68	-13.00	36.68	7.32	Horizontal
4	4891.31	-58.55	-43.80	-13.00	30.80	14.75	Horizontal
5	7535.62	-59.38	-39.73	-13.00	26.73	19.65	Horizontal
6	17408.2	-65.33	-36.09	-13.00	23.09	29.24	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-91.65	-70.18	-13.00	57.18	21.47	Vertical
2	536.108	-105.21	-73.99	-13.00	60.99	31.22	Vertical
3	1473.72	-57.43	-59.50	-13.00	46.50	-2.07	Vertical
4	3023.97	-57.39	-50.07	-13.00	37.07	7.32	Vertical
5	4880.64	-58.84	-44.10	-13.00	31.10	14.74	Vertical
6	17290.4	-64.49	-35.76	-13.00	22.76	28.73	Vertical

LTE Band 13 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	509.419	-104.64	-72.05	-13.00	59.05	32.59	Horizontal
2	1189.10	-57.58	-59.83	-13.00	46.83	-2.25	Horizontal
3	2278.76	-56.18	-53.41	-13.00	40.41	2.77	Horizontal
4	4815.71	-58.97	-44.24	-13.00	31.24	14.73	Horizontal
5	7456.84	-60.42	-40.74	-13.00	27.74	19.68	Horizontal
6	17334.1	-64.98	-35.99	-13.00	22.99	28.99	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-91.30	-69.83	-13.00	56.83	21.47	Vertical
2	1699.53	-57.15	-57.78	-13.00	44.78	-0.63	Vertical
3	3097.65	-57.31	-50.13	-13.00	37.13	7.18	Vertical
4	5072.97	-58.31	-43.81	-13.00	30.81	14.50	Vertical
5	7522.97	-60.15	-40.49	-13.00	27.49	19.66	Vertical
6	17324.9	-65.21	-36.28	-13.00	23.28	28.93	Vertical



LTE Band 17 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	332.791	-104.34	-76.35	-13.00	63.35	27.99	Horizontal
2	520.580	-103.93	-71.66	-13.00	58.66	32.27	Horizontal
3	2268.46	-57.27	-54.57	-13.00	41.57	2.70	Horizontal
4	5223.13	-57.86	-43.64	-13.00	30.64	14.22	Horizontal
5	7475.82	-59.96	-40.29	-13.00	27.29	19.67	Horizontal
6	17420.3	-64.24	-35.20	-13.00	22.20	29.04	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	593.851	-106.12	-73.30	-13.00	60.30	32.82	Vertical
2	1156.20	-57.55	-59.73	-13.00	46.73	-2.18	Vertical
3	1931.84	-57.47	-56.51	-13.00	43.51	0.96	Vertical
4	4935.24	-57.87	-43.32	-13.00	30.32	14.55	Vertical
5	7579.90	-59.62	-39.98	-13.00	26.98	19.64	Vertical
6	17671.0	-64.37	-37.28	-13.00	24.28	27.09	Vertical

LTE Band 25 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	649.169	-106.12	-71.35	-13.00	58.35	34.77	Horizontal
2	796.683	-104.58	-67.76	-13.00	54.76	36.82	Horizontal
3	1355.11	-56.50	-58.83	-13.00	45.83	-2.33	Horizontal
4	3078.05	-56.94	-49.73	-13.00	36.73	7.21	Horizontal
5	4961.32	-58.88	-44.48	-13.00	31.48	14.40	Horizontal
6	17400.8	-64.90	-35.55	-13.00	22.55	29.35	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	746.218	-104.78	-69.09	-13.00	56.09	35.69	Vertical
2	1323.51	-57.82	-60.15	-13.00	47.15	-2.33	Vertical
3	3031.85	-57.31	-50.01	-13.00	37.01	7.30	Vertical
4	4933.32	-58.40	-43.84	-13.00	30.84	14.56	Vertical
5	7433.27	-60.47	-40.78	-13.00	27.78	19.69	Vertical
6	17079.9	-64.59	-36.89	-13.00	23.89	27.70	Vertical



LTE Band 26(Part 22&RSS-132) QPSK 15MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.5113	-81.28	-61.94	-13.00	48.94	19.34	Horizontal
2	517.668	-105.18	-72.83	-13.00	59.83	32.35	Horizontal
3	1695.33	-57.24	-57.90	-13.00	44.90	-0.66	Horizontal
4	4883.44	-57.90	-43.16	-13.00	30.16	14.74	Horizontal
5	7411.99	-59.98	-40.28	-13.00	27.28	19.70	Horizontal
6	17317.4	-65.18	-36.29	-13.00	23.29	28.89	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.5113	-81.46	-61.11	-13.00	48.11	20.35	Vertical
2	1574.22	-57.56	-58.97	-13.00	45.97	-1.41	Vertical
3	3018.55	-57.19	-49.85	-13.00	36.85	7.34	Vertical
4	4940.67	-58.75	-44.24	-13.00	31.24	14.51	Vertical
5	7497.09	-60.01	-40.34	-13.00	27.34	19.67	Vertical
6	17410.5	-64.88	-35.68	-13.00	22.68	29.20	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	62.5113	-80.18	-60.84	-13.00	47.84	19.34	Horizontal
2	1680.93	-57.11	-57.85	-13.00	44.85	-0.74	Horizontal
3	3028.35	-57.64	-50.32	-13.00	37.32	7.32	Horizontal
4	4809.94	-59.04	-44.30	-13.00	31.30	14.74	Horizontal
5	7378.06	-60.15	-40.66	-13.00	27.66	19.49	Horizontal
6	17233.4	-64.39	-35.96	-13.00	22.96	28.43	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.954	-89.54	-70.44	-13.00	57.44	19.10	Vertical
2	62.9965	-81.27	-60.87	-13.00	47.87	20.40	Vertical
3	1518.52	-57.31	-59.15	-13.00	46.15	-1.84	Vertical
4	2355.16	-58.15	-55.07	-13.00	42.07	3.08	Vertical
5	4824.29	-57.44	-42.71	-13.00	29.71	14.73	Vertical
6	17345.6	-64.50	-35.45	-13.00	22.45	29.05	Vertical



LTE Band 38 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	805.805	-105.66	-68.52	-25.00	43.52	37.14	Horizontal
2	1877.43	-67.62	-64.54	-25.00	39.54	3.08	Horizontal
3	3502.37	-58.83	-51.91	-25.00	26.91	6.92	Horizontal
4	4897.32	-59.50	-44.76	-25.00	19.76	14.74	Horizontal
5	7633.56	-59.53	-39.94	-25.00	14.94	19.59	Horizontal
6	12671.9	-60.90	-34.73	-25.00	9.73	26.17	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	770.850	-105.28	-69.31	-25.00	44.31	35.97	Vertical
2	1789.39	-69.00	-66.54	-25.00	41.54	2.46	Vertical
3	3541.39	-58.25	-51.15	-25.00	26.15	7.10	Vertical
4	4863.18	-58.18	-43.44	-25.00	18.44	14.74	Vertical
5	7599.42	-59.81	-40.14	-25.00	15.14	19.67	Vertical
6	12623.1	-61.86	-35.92	-25.00	10.92	25.94	Vertical

LTE Band 41 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	824.254	-104.86	-67.82	-25.00	42.82	37.04	Horizontal
2	1879.43	-69.39	-66.30	-25.00	41.30	3.09	Horizontal
3	3424.33	-59.49	-52.50	-25.00	27.50	6.99	Horizontal
4	4799.77	-59.08	-44.35	-25.00	19.35	14.73	Horizontal
5	7511.63	-60.10	-40.01	-25.00	15.01	20.09	Horizontal
6	12706.1	-60.65	-34.38	-25.00	9.38	26.27	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	706.766	-105.51	-71.42	-25.00	46.42	34.09	Vertical
2	1711.35	-68.75	-66.82	-25.00	41.82	1.93	Vertical
3	3273.13	-59.15	-52.07	-25.00	27.07	7.08	Vertical
4	5087.54	-59.49	-44.93	-25.00	19.93	14.56	Vertical
5	7496.99	-60.52	-40.40	-25.00	15.40	20.12	Vertical
6	12598.7	-62.01	-36.15	-25.00	11.15	25.86	Vertical



LTE Band 66 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	787.949	-104.66	-68.42	-13.00	55.42	36.24	Horizontal
2	1218.71	-57.56	-59.83	-13.00	46.83	-2.27	Horizontal
3	3081.37	-57.70	-50.50	-13.00	37.50	7.20	Horizontal
4	4791.21	-58.50	-43.89	-13.00	30.89	14.61	Horizontal
5	7392.44	-59.94	-40.32	-13.00	27.32	19.62	Horizontal
6	17424.9	-63.97	-35.00	-13.00	22.00	28.97	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	590.940	-104.75	-71.99	-13.00	58.99	32.76	Vertical
2	1351.61	-57.43	-59.76	-13.00	46.76	-2.33	Vertical
3	2980.79	-56.97	-50.62	-13.00	37.62	6.35	Vertical
4	5094.50	-57.89	-43.30	-13.00	30.30	14.59	Vertical
5	7681.10	-58.58	-39.22	-13.00	26.22	19.36	Vertical
6	17419.7	-64.01	-34.97	-13.00	21.97	29.04	Vertical

2.7. Frequency Stability

2.7.1. Requirement

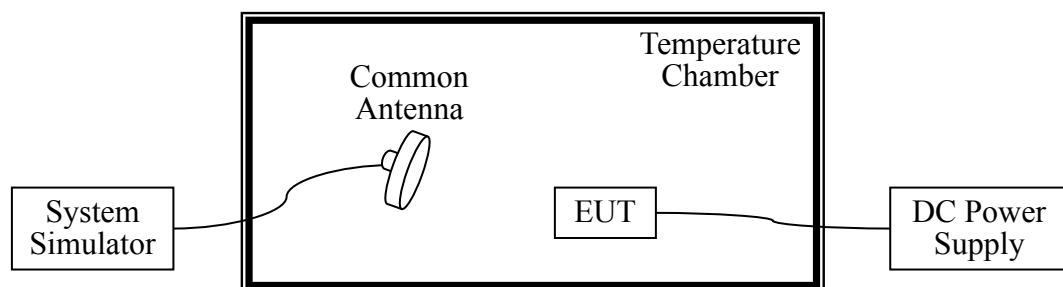
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental 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	1209	A150402241	2021.01.02	2024.01.01
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2024.05.31
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2022.12.13	2023.12.12
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2022.12.13	2023.12.12
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2023.02.20	2024.02.19
10	Test Receiver	R&S	ESIB7	A0501375	2023.03.16	2024.03.15
11	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2024.03.25
13	Temperature chamber	TABAI	PS-232	A8708054	2022.08.18	2023.08.17
14	Wideband Radio Communication tester	R&S	CMW500	A141001983	2022.12.13	2023.12.12
15	Wideband Radio Communication tester	R&S	CMW500	A150802214	2023.06.01	2024.05.31
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07
18	Power Supply	R&S	WYJ-60100	A141102031	2023.07.12	2026.07.11



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%($U=2Uc(y)$)	2.8dB
--	-------

Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2Uc(y)$)	3.5dB
--	-------

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2Uc(y)$)	3.91dB
--	--------

Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2Uc(y)$)	4.5dB
--	-------

Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

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

Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2Uc(y)$)	1.2dB
--	-------



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	23.62	23.63	23.63	2.65	26.35	33.00
	1	2	23.61	23.62	23.59			
	1	5	23.67	23.70	23.57			
	3	0	22.60	22.53	22.70			
	3	1	22.60	22.53	22.70			
	3	2	22.60	22.67	22.69			
16QAM	6	0	22.57	22.54	22.59	2.65	25.74	33.00
	1	0	22.74	22.64	23.01			
	1	2	22.97	22.72	22.85			
	1	5	23.05	22.37	23.09			
	3	0	21.81	21.93	21.69			
	3	1	21.85	21.86	21.55			
	3	2	21.77	21.92	21.68			
6	0	21.62	21.76	21.61				
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	23.72	23.51	23.71	2.65	26.45	33.00
	1	7	23.57	23.67	23.80			
	1	14	23.51	23.60	23.61			
	8	0	22.51	22.72	22.65			
	8	4	22.51	22.63	22.65			
	8	7	22.53	22.72	22.61			
16QAM	15	0	22.53	22.74	22.59	2.65	26.28	33.00
	1	0	22.78	22.81	23.63			
	1	7	22.95	23.09	22.73			
	1	14	22.79	22.88	23.08			
	8	0	21.88	21.77	21.61			
	8	4	21.87	21.78	21.61			
	8	7	21.84	21.77	21.76			
15	0	21.47	21.82	21.52				



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	23.44	23.26	23.55	2.65	26.37	33.00
	1	12	23.59	23.35	23.44			
	1	24	23.49	23.59	23.72			
	12	0	22.60	22.61	22.67			
	12	6	22.60	22.62	22.68			
	12	11	22.63	22.62	22.66			
	25	0	22.55	22.54	22.43			
16QAM	1	0	22.54	22.72	22.50	2.65	25.49	33.00
	1	12	22.48	22.84	22.42			
	1	24	22.68	22.76	22.34			
	12	0	21.48	21.49	21.54			
	12	6	21.47	21.50	21.55			
	12	11	21.32	21.52	21.52			
	25	0	21.36	21.47	21.46			
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	23.63	23.66	23.66	2.65	26.63	33.00
	1	24	23.70	23.70	23.59			
	1	49	23.85	23.98	23.69			
	25	0	22.70	22.68	22.54			
	25	12	22.70	22.66	22.55			
	25	24	22.71	22.66	22.66			
	50	0	22.70	22.66	22.54			
16QAM	1	0	23.10	23.23	23.24	2.65	25.89	33.00
	1	24	23.21	23.09	23.20			
	1	49	23.13	23.15	23.02			
	25	0	21.73	21.79	21.67			
	25	12	21.83	21.80	21.67			
	25	24	21.84	21.80	21.77			
	50	0	21.67	21.75	21.52			



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	23.60	23.69	23.75	2.65	26.54	33.00
	1	37	23.45	23.89	23.48			
	1	74	23.79	23.67	23.56			
	36	0	23.04	22.41	23.01			
	36	16	23.03	22.36	23.01			
	36	35	23.05	23.19	23.10			
	75	0	22.63	22.66	22.56			
16QAM	1	0	23.09	23.26	22.98	2.65	25.96	33.00
	1	37	23.02	23.13	23.01			
	1	74	23.31	23.09	23.09			
	36	0	21.75	21.85	21.78			
	36	16	21.82	21.69	21.86			
	36	35	21.77	21.76	21.70			
	75	0	21.61	21.63	21.55			
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	23.61	23.59	23.68	2.65	26.35	33.00
	1	49	23.43	23.50	23.48			
	1	99	23.64	23.53	23.70			
	50	0	22.47	22.69	22.53			
	50	24	22.52	22.69	22.55			
	50	49	22.48	22.61	22.54			
	100	0	22.42	22.51	22.54			
16QAM	1	0	22.72	22.81	22.84	2.65	25.51	33.00
	1	49	22.54	22.67	22.67			
	1	99	22.86	22.78	22.79			
	50	0	21.53	21.64	21.60			
	50	24	21.57	21.64	21.61			
	50	49	21.58	21.67	21.55			
	100	0	21.53	21.57	21.65			



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	23.70	23.59	23.63	3.06	26.76	30.00
	1	2	23.59	23.49	23.57			
	1	5	23.66	23.64	23.67			
	3	0	22.60	22.68	22.42			
	3	1	22.66	22.68	22.54			
	3	2	22.58	22.56	22.42			
	6	0	22.50	22.50	22.43			
16QAM	1	0	22.72	22.88	22.74	3.06	26.01	30.00
	1	2	22.79	22.60	22.82			
	1	5	22.95	22.87	22.79			
	3	0	21.54	21.37	21.58			
	3	1	21.54	21.38	21.57			
	3	2	21.57	21.47	21.52			
	6	0	21.43	21.24	21.36			
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	23.51	23.44	23.55	3.06	26.69	30.00
	1	7	23.51	23.63	23.43			
	1	14	23.44	23.44	23.22			
	8	0	22.45	22.50	22.31			
	8	4	22.47	22.51	22.42			
	8	7	22.47	22.48	22.28			
	15	0	22.40	22.43	22.27			
16QAM	1	0	22.79	22.75	22.63	3.06	25.90	30.00
	1	7	22.82	22.84	22.51			
	1	14	22.76	22.72	22.53			
	8	0	21.54	21.78	21.55			
	8	4	21.50	21.79	21.43			
	8	7	21.44	21.86	21.75			
	15	0	21.38	21.71	21.52			



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	23.81	23.29	23.58	3.06	26.97	30.00
	1	12	23.32	23.56	23.57			
	1	24	23.91	23.45	23.49			
	12	0	22.48	22.43	22.36			
	12	6	22.48	22.44	22.38			
	12	11	22.46	22.49	22.61			
	25	0	22.48	22.42	22.49			
16QAM	1	0	22.57	22.47	22.39	3.06	25.63	30.00
	1	12	22.43	22.35	22.31			
	1	24	22.55	22.44	22.49			
	12	0	21.56	21.43	21.47			
	12	6	21.36	21.44	21.33			
	12	11	21.44	21.48	21.66			
	25	0	21.62	21.46	21.49			
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	23.71	23.57	23.54	3.06	26.77	30.00
	1	24	23.54	23.45	23.45			
	1	49	23.67	23.66	23.63			
	25	0	22.54	22.48	22.52			
	25	12	22.55	22.49	22.48			
	25	24	22.53	22.43	22.52			
	50	0	22.51	22.41	22.52			
16QAM	1	0	22.45	22.72	22.61	3.06	25.78	30.00
	1	24	22.63	22.54	22.59			
	1	49	22.55	22.61	22.63			
	25	0	21.58	21.63	21.32			
	25	12	21.59	21.63	21.63			
	25	24	21.48	21.57	21.58			
	50	0	21.55	21.40	21.35			



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	23.40	23.39	23.53	3.06	26.69	30.00
	1	37	23.52	23.44	23.59			
	1	74	23.58	23.53	23.63			
	36	0	22.64	22.57	22.38			
	36	16	22.59	22.58	22.10			
	36	35	22.45	22.57	22.27			
	75	0	22.47	22.48	22.42			
16QAM	1	0	22.88	22.97	22.71	3.06	26.25	30.00
	1	37	22.95	22.87	23.19			
	1	74	22.99	22.59	23.03			
	36	0	22.94	22.58	22.38			
	36	16	22.94	22.58	22.38			
	36	35	22.95	22.57	22.27			
	75	0	21.48	21.64	21.50			
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	23.65	23.54	23.46	3.06	26.75	30.00
	1	49	23.36	23.34	23.50			
	1	99	23.69	23.66	23.63			
	50	0	22.42	22.47	22.58			
	50	24	22.42	22.47	22.59			
	50	49	22.53	22.47	22.38			
	100	0	22.43	22.42	22.50			
16QAM	1	0	23.17	22.66	22.65	3.06	26.38	30.00
	1	49	22.97	22.90	23.32			
	1	99	22.90	22.89	23.27			
	50	0	21.69	21.54	21.75			
	50	24	21.68	21.54	21.75			
	50	49	21.58	21.45	21.48			
	100	0	21.47	21.42	21.50			



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	23.53	23.68	23.49	-0.33	21.20	38.45
	1	2	23.61	23.42	23.55			
	1	5	23.62	23.53	23.44			
	3	0	22.51	22.28	22.45			
	3	1	22.51	22.24	22.42			
	3	2	22.37	22.33	22.57			
	6	0	22.36	22.31	22.44			
16QAM	1	0	22.81	22.76	22.65	-0.33	20.33	38.45
	1	2	22.65	22.70	22.54			
	1	5	22.69	22.68	22.78			
	3	0	21.59	21.45	21.41			
	3	1	21.71	21.59	21.48			
	3	2	21.45	21.41	21.42			
	6	0	21.57	21.73	21.36			
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	23.26	23.23	23.27	-0.33	21.03	38.45
	1	7	23.47	23.28	23.36			
	1	14	23.44	23.22	23.51			
	8	0	22.63	22.44	22.52			
	8	4	22.62	22.35	22.53			
	8	7	22.56	22.32	22.58			
	15	0	22.58	22.40	22.50			
16QAM	1	0	22.81	22.66	22.31	-0.33	20.33	38.45
	1	7	22.68	22.76	22.43			
	1	14	22.76	22.59	22.73			
	8	0	21.48	21.61	21.39			
	8	4	21.46	21.61	21.39			
	8	7	21.55	21.66	21.51			
	15	0	21.40	21.30	21.44			



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	23.15	23.27	23.29	-0.33	21.05	38.45
	1	12	23.16	23.37	22.96			
	1	24	23.53	23.06	23.40			
	12	0	22.34	22.36	22.30			
	12	6	22.34	22.37	22.30			
	12	11	22.20	22.38	22.37			
	25	0	22.33	22.34	22.29			
16QAM	1	0	22.06	22.21	22.09	-0.33	19.82	38.45
	1	12	22.14	22.30	22.16			
	1	24	22.09	22.08	22.07			
	12	0	21.31	21.37	21.20			
	12	6	21.43	21.40	21.32			
	12	11	21.24	21.31	21.25			
	25	0	21.28	21.34	21.24			
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	23.48	23.53	23.41	-0.33	21.11	38.45
	1	24	23.31	23.31	23.22			
	1	49	23.43	23.59	23.43			
	25	0	22.37	22.41	22.43			
	25	12	22.41	22.42	22.33			
	25	24	22.38	22.39	22.31			
	50	0	22.37	22.43	22.32			
16QAM	1	0	22.40	22.59	22.42	-0.33	20.28	38.45
	1	24	22.58	22.48	22.68			
	1	49	22.42	22.76	22.29			
	25	0	21.50	21.50	21.26			
	25	12	21.50	21.45	21.26			
	25	24	21.49	21.48	21.34			
	50	0	21.29	21.20	21.31			



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	23.16	23.15	23.18	0.83	24.17	33.00
	1	12	23.16	23.20	23.06			
	1	24	23.34	23.25	23.21			
	12	0	22.22	22.32	22.37			
	12	6	22.24	22.33	22.30			
	12	11	22.33	22.28	22.28			
	25	0	22.38	22.28	22.28			
16QAM	1	0	22.24	22.31	22.53	0.83	23.36	33.00
	1	12	22.18	22.34	22.48			
	1	24	22.33	22.45	22.44			
	12	0	21.41	21.39	21.28			
	12	6	21.38	21.48	21.35			
	12	11	21.37	21.36	21.20			
	25	0	21.27	21.41	21.25			
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	23.28	23.24	23.31	0.83	24.43	33.00
	1	24	23.46	23.18	23.22			
	1	49	23.41	23.51	23.60			
	25	0	22.39	22.32	22.27			
	25	12	22.40	22.33	22.29			
	25	24	22.39	22.28	22.40			
	50	0	22.37	22.31	22.27			
16QAM	1	0	22.73	22.90	22.84	0.83	23.79	33.00
	1	24	22.71	22.78	22.83			
	1	49	22.92	22.84	22.96			
	25	0	21.39	21.41	21.38			
	25	12	21.39	21.42	21.38			
	25	24	21.41	21.47	21.45			
	50	0	21.51	21.17	21.33			



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	23.32	23.24	23.45	0.83	24.39	33.00
	1	37	23.45	23.56	23.21			
	1	74	23.36	23.29	23.23			
	36	0	22.38	22.48	22.47			
	36	16	22.41	22.41	22.36			
	36	35	22.28	22.54	22.21			
	75	0	22.39	22.28	22.19			
16QAM	1	0	22.64	22.69	22.55	0.83	23.63	33.00
	1	37	22.32	22.75	22.64			
	1	74	22.80	22.58	22.42			
	36	0	21.58	21.48	21.51			
	36	16	21.65	21.35	21.36			
	36	35	21.41	21.62	21.42			
	75	0	21.45	21.27	21.36			
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	23.55	23.42	23.51	0.83	24.49	33.00
	1	49	23.36	23.19	23.24			
	1	99	23.66	23.37	23.39			
	50	0	22.44	22.28	22.32			
	50	24	22.45	22.29	22.24			
	50	49	22.47	22.27	22.27			
	100	0	22.41	22.20	22.21			
16QAM	1	0	22.53	22.44	22.55	0.83	23.72	33.00
	1	49	22.89	22.86	22.77			
	1	99	22.89	22.51	22.70			
	50	0	21.48	21.32	21.38			
	50	24	21.53	21.38	21.44			
	50	49	21.60	21.28	21.32			
	100	0	21.39	21.24	21.37			



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	23.60	23.32	23.21	-2.87	18.60	33.77
	1	2	23.62	23.27	23.33			
	1	5	23.53	23.42	23.30			
	3	0	22.52	22.51	22.39			
	3	1	22.51	22.52	22.52			
	3	2	22.43	22.34	22.57			
	6	0	22.47	22.43	22.48			
16QAM	1	0	22.71	22.51	22.40	-2.87	17.69	33.77
	1	2	22.45	22.48	22.53			
	1	5	22.57	22.69	22.64			
	3	0	21.51	21.46	21.39			
	3	1	21.50	21.42	21.27			
	3	2	21.47	21.34	21.32			
	6	0	21.31	21.40	21.36			
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	23.28	23.26	23.65	-2.87	18.63	33.77
	1	7	23.42	23.37	23.48			
	1	14	23.30	23.60	23.43			
	8	0	22.56	22.45	22.45			
	8	4	22.56	22.46	22.45			
	8	7	22.52	22.39	22.42			
	15	0	22.56	22.48	22.52			
16QAM	1	0	22.78	22.56	22.66	-2.87	17.79	33.77
	1	7	22.65	22.79	22.75			
	1	14	22.71	22.70	22.81			
	8	0	21.44	21.40	21.35			
	8	4	21.44	21.56	21.42			
	8	7	21.32	21.55	21.27			
	15	0	21.40	21.61	21.33			



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	23.26	23.24	23.13	-2.87	18.49	33.77
	1	12	23.51	23.33	23.21			
	1	24	23.42	23.35	23.31			
	12	0	22.38	22.36	22.30			
	12	6	22.49	22.39	22.20			
	12	11	22.33	22.37	22.39			
	25	0	22.35	22.35	22.35			
16QAM	1	0	22.58	22.63	22.55	-2.87	17.76	33.77
	1	12	22.42	22.52	22.62			
	1	24	22.59	22.78	22.47			
	12	0	21.48	21.31	21.42			
	12	6	21.49	21.31	21.39			
	12	11	21.32	21.27	21.48			
	25	0	21.30	21.40	21.34			
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	23.30	23.18	23.13	-2.87	18.52	33.77
	1	24	23.22	23.13	23.35			
	1	49	23.54	23.28	23.33			
	25	0	22.41	22.34	22.52			
	25	12	22.50	22.35	22.53			
	25	24	22.35	22.37	22.31			
	50	0	22.42	22.32	22.49			
16QAM	1	0	22.64	22.69	22.55	-2.87	17.71	33.77
	1	24	22.56	22.58	22.73			
	1	49	22.72	22.46	22.61			
	25	0	21.43	21.38	21.34			
	25	12	21.41	21.40	21.44			
	25	24	21.46	21.42	21.26			
	50	0	21.32	21.37	21.40			



LTE Band 13 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23205	23230	23255			
			779.5MHz	782.0MHz	784.5MHz			
QPSK	1	0	23.38	23.37	23.47	-2.79	18.53	33.77
	1	12	23.47	23.25	23.20			
	1	24	23.39	23.30	23.22			
	12	0	22.55	22.47	22.60			
	12	6	22.56	22.49	22.50			
	12	11	22.52	22.50	22.51			
	25	0	22.53	22.54	22.52			
16QAM	1	0	22.56	22.60	22.61	-2.79	17.84	33.77
	1	12	22.52	22.48	22.78			
	1	24	22.69	22.51	22.64			
	12	0	21.45	21.46	21.46			
	12	6	21.45	21.47	21.44			
	12	11	21.41	21.46	21.41			
	25	0	21.46	21.46	21.58			
LTE Band 13 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			/	23230	/			
			/	782.0MHz	/			
QPSK	1	0	/	23.49	/	-2.79	18.61	33.77
	1	24	/	23.36	/			
	1	49	/	23.55	/			
	25	0	/	22.48	/			
	25	12	/	22.51	/			
	25	24	/	22.48	/			
	50	0	/	22.49	/			
16QAM	1	0	/	22.72	/	-2.79	17.78	33.77
	1	24	/	22.58	/			
	1	49	/	22.67	/			
	25	0	/	21.53	/			
	25	12	/	21.53	/			
	25	24	/	21.48	/			
	50	0	/	21.51	/			



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	23.10	23.19	22.87	-3.41	17.69	33.77
	1	12	23.21	23.14	23.07			
	1	24	23.18	23.02	23.25			
	12	0	22.30	22.36	22.37			
	12	6	22.30	22.37	22.39			
	12	11	22.27	22.36	22.42			
	25	0	22.29	22.30	22.27			
16QAM	1	0	22.41	22.42	22.42	-3.41	17.05	33.77
	1	12	22.38	22.61	22.34			
	1	24	22.51	22.48	22.52			
	12	0	21.39	21.23	21.39			
	12	6	21.42	21.41	21.42			
	12	11	21.29	21.39	21.28			
	25	0	21.33	21.45	21.39			
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	23.41	23.53	23.47	-3.41	18.00	33.77
	1	24	23.24	23.34	23.30			
	1	49	23.56	23.46	23.38			
	25	0	22.46	22.45	22.41			
	25	12	22.39	22.35	22.42			
	25	24	22.37	22.38	22.33			
	50	0	22.42	22.35	22.39			
16QAM	1	0	22.53	22.44	22.49	-3.41	17.91	33.77
	1	24	22.68	22.62	22.56			
	1	49	23.47	22.51	22.64			
	25	0	21.50	21.48	21.45			
	25	12	21.56	21.52	21.49			
	25	24	21.51	21.46	21.47			
	50	0	21.35	21.41	21.36			



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	23.64	23.56	23.49	2.65	26.32	33.00
	1	2	23.59	23.51	23.43			
	1	5	23.67	23.50	23.56			
	3	0	22.55	22.63	22.65			
	3	1	22.74	22.75	22.61			
	3	2	22.67	22.83	22.78			
	6	0	22.64	22.64	22.62			
16QAM	1	0	22.88	22.76	22.69	2.65	25.95	33.00
	1	2	22.70	22.81	22.73			
	1	5	23.30	22.79	22.81			
	3	0	21.68	21.69	21.58			
	3	1	21.61	21.52	21.64			
	3	2	21.73	21.60	21.61			
	6	0	21.56	21.50	21.43			
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	23.84	23.78	23.59	2.65	26.49	33.00
	1	7	23.68	23.81	23.84			
	1	14	23.61	23.79	23.76			
	8	0	22.76	22.67	22.81			
	8	4	22.76	22.68	22.74			
	8	7	22.69	22.73	22.78			
	15	0	22.69	22.73	22.73			
16QAM	1	0	22.98	23.00	22.83	2.65	25.71	33.00
	1	7	23.06	22.83	22.96			
	1	14	23.01	22.95	22.79			
	8	0	21.73	21.44	21.64			
	8	4	21.63	21.64	21.71			
	8	7	21.72	21.59	21.62			
	15	0	21.63	21.63	21.60			



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	23.84	23.56	23.63	2.65	26.49	33.00
	1	12	23.61	23.60	23.52			
	1	24	23.67	23.67	23.59			
	12	0	22.67	22.64	22.61			
	12	6	22.80	22.64	22.73			
	12	11	22.59	22.61	22.64			
	25	0	22.52	22.59	22.67			
16QAM	1	0	22.86	22.75	22.51	2.65	25.52	33.00
	1	12	22.73	22.58	22.43			
	1	24	22.87	22.86	22.68			
	12	0	21.79	21.71	21.65			
	12	6	21.79	21.72	21.62			
	12	11	21.72	21.70	21.67			
	25	0	21.66	21.52	21.59			
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	23.61	23.57	23.52	2.65	26.40	33.00
	1	24	23.74	23.68	23.56			
	1	49	23.75	23.59	23.62			
	25	0	22.80	22.64	22.71			
	25	12	22.81	22.65	22.75			
	25	24	22.70	22.63	22.58			
	50	0	22.62	22.70	22.61			
16QAM	1	0	22.81	22.79	22.85	2.65	25.50	33.00
	1	24	22.69	22.65	22.69			
	1	49	22.58	22.67	22.73			
	25	0	21.46	21.74	21.58			
	25	12	21.63	21.72	21.55			
	25	24	21.73	21.75	21.67			
	50	0	21.59	21.67	21.61			



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	23.53	23.55	23.42	2.65	26.34	33.00
	1	37	23.67	23.69	23.57			
	1	74	23.64	23.55	23.51			
	36	0	22.58	22.62	22.64			
	36	16	22.51	22.51	22.71			
	36	35	22.60	22.65	22.60			
	75	0	22.42	22.57	22.53			
16QAM	1	0	22.82	22.79	22.69	2.65	25.56	33.00
	1	37	22.91	22.86	22.76			
	1	74	22.70	22.67	22.55			
	36	0	21.75	21.75	21.72			
	36	16	21.59	21.69	21.68			
	36	35	21.67	21.82	21.59			
	75	0	21.62	21.66	21.54			
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	23.84	23.89	23.77	2.65	26.55	33.00
	1	49	23.62	23.74	23.61			
	1	99	23.89	23.90	23.89			
	50	0	22.70	22.68	22.64			
	50	24	22.70	22.69	22.54			
	50	49	22.71	22.69	22.67			
	100	0	22.71	22.74	22.65			
16QAM	1	0	22.78	22.83	22.96	2.65	25.80	33.00
	1	49	23.01	22.83	22.62			
	1	99	23.06	23.11	23.15			
	50	0	21.66	21.73	21.62			
	50	24	21.66	21.74	21.62			
	50	49	21.68	21.65	21.73			
	100	0	21.60	21.61	21.65			



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	23.31	23.46	23.31	-0.33	21.19	50.00
	1	2	23.59	23.59	23.25			
	1	5	23.56	23.67	23.37			
	3	0	22.27	22.60	22.34			
	3	1	22.30	22.62	22.46			
	3	2	22.34	22.51	22.48			
	6	0	22.33	22.48	22.47			
16QAM	1	0	22.57	22.58	22.55	-0.33	20.15	50.00
	1	2	22.62	22.63	22.59			
	1	5	22.56	22.46	22.61			
	3	0	21.43	21.50	21.60			
	3	1	21.39	21.57	21.59			
	3	2	21.44	21.63	21.47			
	6	0	21.25	21.31	21.30			
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	23.48	23.55	23.43	-0.33	21.07	50.00
	1	7	23.45	23.51	23.29			
	1	14	23.34	23.49	23.23			
	8	0	22.50	22.65	22.49			
	8	4	22.55	22.61	22.51			
	8	7	22.41	22.49	22.59			
	15	0	22.41	22.53	22.48			
16QAM	1	0	22.80	22.76	22.65	-0.33	20.47	50.00
	1	7	22.78	22.95	22.43			
	1	14	22.73	22.93	22.57			
	8	0	21.66	21.82	21.41			
	8	4	21.66	21.81	21.39			
	8	7	21.65	21.74	21.32			
	15	0	21.39	21.40	21.50			



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	23.39	23.43	23.41	-0.33	21.05	50.00
	1	12	23.24	23.53	23.30			
	1	24	23.29	23.30	23.46			
	12	0	22.35	22.64	22.50			
	12	6	22.35	22.53	22.52			
	12	11	22.55	22.48	22.47			
	25	0	22.52	22.42	22.49			
16QAM	1	0	22.45	22.45	22.57	-0.33	20.19	50.00
	1	12	22.67	22.61	22.42			
	1	24	22.42	22.32	22.63			
	12	0	21.44	21.64	21.36			
	12	6	21.48	21.51	21.43			
	12	11	21.65	21.55	21.28			
	25	0	21.52	21.35	21.40			
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	/	23.51	/	-0.33	21.11	50.00
	1	24	/	23.59	/			
	1	49	/	23.45	/			
	25	0	/	22.52	/			
	25	12	/	22.52	/			
	25	24	/	22.54	/			
	50	0	/	22.54	/			
16QAM	1	0	/	22.78	/	-0.33	20.34	50.00
	1	24	/	22.82	/			
	1	49	/	22.76	/			
	25	0	/	21.64	/			
	25	12	/	21.64	/			
	25	24	/	21.57	/			
	50	0	/	21.51	/			



LTE Band 26 (Part 22&RSS-132) - 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	23.46	23.27	23.24	-0.33	21.02	38.45
	1	2	23.41	23.21	23.33			
	1	5	23.50	23.36	23.42			
	3	0	22.48	22.46	22.58			
	3	1	22.46	22.37	22.51			
	3	2	22.42	22.59	22.64			
	6	0	22.41	22.48	22.47			
16QAM	1	0	22.58	22.54	22.59	-0.33	20.27	38.45
	1	2	22.50	22.48	22.58			
	1	5	22.61	22.75	22.65			
	3	0	21.45	21.59	21.51			
	3	1	21.42	21.25	21.51			
	3	2	21.55	21.46	21.52			
	6	0	21.33	21.44	21.44			
LTE Band 26 (Part 22&RSS-132) - 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	23.37	23.51	23.56	-0.33	21.11	38.45
	1	7	23.33	23.48	23.44			
	1	14	23.29	23.55	23.59			
	8	0	22.50	22.45	22.46			
	8	4	22.51	22.46	22.49			
	8	7	22.70	22.54	22.50			
	15	0	22.48	22.51	22.45			
16QAM	1	0	22.39	22.76	22.50	-0.33	20.28	38.45
	1	7	22.41	22.47	22.62			
	1	14	22.42	22.72	22.20			
	8	0	21.41	21.24	21.45			
	8	4	21.42	21.25	21.40			
	8	7	21.44	21.22	21.38			
	15	0	21.49	21.45	21.59			



LTE Band 26 (Part 22&RSS-132) - 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	23.33	23.23	23.21	-0.33	21.05	38.45
	1	12	23.38	23.32	23.20			
	1	24	23.53	23.30	23.21			
	12	0	22.40	22.40	22.49			
	12	6	22.40	22.41	22.45			
	12	11	22.39	22.33	22.42			
	25	0	22.34	22.38	22.40			
16QAM	1	0	22.41	22.65	22.35	-0.33	20.17	38.45
	1	12	22.55	22.48	22.47			
	1	24	22.32	22.42	22.31			
	12	0	21.47	21.45	21.37			
	12	6	21.33	21.42	21.57			
	12	11	21.39	21.47	21.50			
	25	0	21.40	21.40	21.49			
LTE Band 26 (Part 22&RSS-132) - 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	23.60	23.33	23.62	-0.33	21.14	38.45
	1	24	23.61	23.22	23.26			
	1	49	23.40	23.20	23.26			
	25	0	22.44	22.42	22.53			
	25	12	22.45	22.43	22.54			
	25	24	22.45	22.39	22.51			
	50	0	22.51	22.43	22.45			
16QAM	1	0	22.60	22.74	22.49	-0.33	20.26	38.45
	1	24	22.26	22.62	22.63			
	1	49	22.61	22.68	22.51			
	25	0	21.41	21.51	21.58			
	25	12	21.49	21.55	21.61			
	25	24	21.44	21.54	21.55			
	50	0	21.41	21.41	21.33			



LTE Band 26 (Part 22&RSS-132) - 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	23.42	23.54	23.35	-0.33	21.06	38.45
	1	37	23.50	23.28	23.52			
	1	74	23.31	23.44	23.33			
	36	0	22.81	22.65	22.31			
	36	16	22.79	22.63	22.31			
	36	35	22.72	22.82	22.28			
	75	0	22.43	22.45	22.41			
16QAM	1	0	22.69	22.59	22.45	-0.33	20.30	38.45
	1	37	22.71	22.61	22.50			
	1	74	22.63	22.78	22.67			
	36	0	21.58	21.63	21.52			
	36	16	21.59	21.63	21.63			
	36	35	21.49	21.52	21.37			
	75	0	21.41	21.57	21.44			



LTE Band 38 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			37775	38000	38225			
			2572.5MHz	2595.0MHz	2617.5MHz			
QPSK	1	0	23.36	23.50	23.61	0.83	24.51	33.00
	1	12	23.42	23.46	23.47			
	1	24	23.42	23.58	23.68			
	12	0	22.40	22.39	22.39			
	12	6	22.36	22.30	22.41			
	12	11	22.49	22.28	22.43			
	25	0	22.25	22.12	22.25			
16QAM	1	0	22.51	22.34	22.42	0.83	23.35	33.00
	1	12	22.42	22.43	22.27			
	1	24	22.43	22.52	22.30			
	12	0	21.15	21.32	21.09			
	12	6	21.26	21.11	21.20			
	12	11	21.19	21.21	21.14			
	25	0	21.01	21.15	21.15			
LTE Band 38 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			37800	38000	38200			
			2575.0MHz	2595.0MHz	2615.0MHz			
QPSK	1	0	23.31	23.26	23.20	0.83	24.14	33.00
	1	24	23.28	23.17	23.31			
	1	49	23.20	23.22	23.19			
	25	0	22.13	22.13	22.10			
	25	12	22.06	22.15	22.10			
	25	24	22.22	22.06	22.14			
	50	0	22.13	22.12	22.07			
16QAM	1	0	22.23	22.18	22.32	0.83	23.22	33.00
	1	24	22.21	22.07	22.19			
	1	49	22.39	22.24	22.21			
	25	0	21.32	21.25	21.32			
	25	12	21.16	21.22	21.24			
	25	24	21.25	21.19	21.45			
	50	0	21.17	21.18	21.22			



LTE Band 38 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			37825	38000	38175			
			2577.5MHz	2595.0MHz	2612.5MHz			
QPSK	1	0	23.23	23.28	23.21	0.83	24.18	33.00
	1	37	23.35	23.32	23.26			
	1	74	23.25	23.13	23.08			
	36	0	22.26	22.22	22.14			
	36	16	22.26	22.28	22.18			
	36	35	22.15	22.17	22.11			
	75	0	22.17	22.07	22.08			
16QAM	1	0	22.35	22.27	22.41	0.83	23.24	33.00
	1	37	22.41	22.32	22.34			
	1	74	22.27	22.18	22.38			
	36	0	21.42	21.25	21.12			
	36	16	21.27	21.34	21.23			
	36	35	21.35	21.25	21.15			
	75	0	21.24	21.20	21.10			
LTE Band 38 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			37850	38000	38150			
			2580.0MHz	2595.0MHz	2610.0MHz			
QPSK	1	0	23.40	23.43	23.51	0.83	24.34	33.00
	1	49	23.21	23.51	23.47			
	1	99	23.36	23.26	23.39			
	50	0	22.13	22.17	22.21			
	50	24	22.15	22.19	22.23			
	50	49	22.24	22.13	22.15			
	100	0	22.16	22.08	22.09			
16QAM	1	0	22.30	22.49	22.43	0.83	23.61	33.00
	1	49	22.50	22.52	22.46			
	1	99	22.53	22.53	22.78			
	50	0	21.17	21.17	21.33			
	50	24	21.17	21.18	21.34			
	50	49	21.22	21.13	21.29			
	100	0	21.21	21.15	21.21			



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	22.67	22.94	22.84	0.83	23.77	33.00
	1	12	22.85	22.88	22.84			
	1	24	22.75	22.87	22.88			
	12	0	21.93	21.88	21.99			
	12	6	21.94	21.88	22.00			
	12	11	21.91	21.90	21.94			
	25	0	21.98	21.95	21.98			
16QAM	1	0	22.02	22.23	22.07	0.83	23.21	33.00
	1	12	21.86	22.38	22.08			
	1	24	21.99	22.04	22.12			
	12	0	20.95	20.82	20.94			
	12	6	20.95	20.82	20.76			
	12	11	21.01	20.74	20.80			
	25	0	21.01	21.04	20.82			
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	22.87	22.84	22.78	0.83	23.75	33.00
	1	24	22.92	22.89	22.83			
	1	49	22.83	22.92	22.83			
	25	0	22.07	22.00	21.99			
	25	12	22.08	22.01	22.00			
	25	24	21.99	21.97	22.03			
	50	0	22.03	21.94	21.96			
16QAM	1	0	22.49	22.25	22.36	0.83	23.34	33.00
	1	24	22.51	22.20	22.50			
	1	49	22.48	22.47	22.37			
	25	0	21.20	21.10	21.09			
	25	12	21.21	21.28	21.19			
	25	24	21.23	21.10	21.07			
	50	0	21.16	21.08	21.09			



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	22.95	22.87	23.00	0.83	23.92	33.00
	1	37	23.09	23.02	23.03			
	1	74	23.01	22.95	22.98			
	36	0	22.03	21.98	22.16			
	36	16	22.14	21.96	22.15			
	36	35	22.14	21.99	22.08			
	75	0	21.99	22.01	22.10			
16QAM	1	0	21.95	22.09	22.10	0.83	22.98	33.00
	1	37	22.15	22.13	22.15			
	1	74	22.04	22.05	22.10			
	36	0	21.25	21.31	21.19			
	36	16	21.14	21.24	21.15			
	36	35	21.21	21.12	21.32			
	75	0	21.11	21.10	21.11			
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	23.31	23.41	23.38	0.83	24.24	33.00
	1	49	23.18	23.26	23.21			
	1	99	23.26	23.25	23.30			
	50	0	22.16	22.25	22.21			
	50	24	22.17	22.18	22.06			
	50	49	22.11	22.16	22.18			
	100	0	22.03	22.03	22.07			
16QAM	1	0	22.51	22.51	22.57	0.83	23.45	33.00
	1	49	22.50	22.62	22.56			
	1	99	22.47	22.45	22.41			
	50	0	21.39	21.32	21.41			
	50	24	21.20	21.28	21.20			
	50	49	21.34	21.17	21.35			
	100	0	21.14	21.12	21.28			



LTE Band 66 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			131979	132322	132665			
			1710.7MHz	1745.0MHz	1779.3MHz			
QPSK	1	0	23.65	23.41	23.43	3.06	26.71	30.00
	1	2	23.64	23.34	23.31			
	1	5	23.57	23.35	23.33			
	3	0	22.46	22.53	22.26			
	3	1	22.45	22.53	22.19			
	3	2	22.32	22.68	22.31			
	6	0	22.32	22.44	22.18			
16QAM	1	0	22.53	22.63	22.41	3.06	25.87	30.00
	1	2	22.66	22.61	22.30			
	1	5	22.80	22.81	22.59			
	3	0	21.40	21.50	21.26			
	3	1	21.48	21.45	21.34			
	3	2	21.43	21.47	21.25			
	6	0	21.24	21.32	21.21			
LTE Band 66 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			131987	132322	132657			
			1711.5MHz	1745.0MHz	1778.5MHz			
QPSK	1	0	23.32	23.39	23.19	3.06	26.64	30.00
	1	7	23.33	23.58	23.42			
	1	14	23.54	23.42	23.20			
	8	0	22.35	22.55	22.21			
	8	4	22.43	22.51	22.33			
	8	7	22.34	22.46	22.17			
	15	0	22.36	22.44	22.13			
16QAM	1	0	22.76	22.76	22.46	3.06	25.87	30.00
	1	7	22.57	22.59	22.65			
	1	14	22.81	22.77	22.64			
	8	0	21.52	21.46	21.33			
	8	4	21.51	21.58	21.30			
	8	7	21.50	21.52	21.43			
	15	0	21.38	21.41	21.22			



LTE Band 66 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			131997	132322	132647			
			1712.5MHz	1745.0MHz	1777.5MHz			
QPSK	1	0	23.27	23.13	23.08	3.06	26.41	30.00
	1	12	23.23	23.35	23.27			
	1	24	23.24	23.33	23.15			
	12	0	22.37	22.41	22.32			
	12	6	22.38	22.42	22.24			
	12	11	22.35	22.39	22.22			
	25	0	22.36	22.42	22.27			
16QAM	1	0	22.34	22.37	22.41	3.06	25.51	30.00
	1	12	22.28	22.29	22.27			
	1	24	22.37	22.45	22.33			
	12	0	21.26	21.34	21.18			
	12	6	21.42	21.34	21.24			
	12	11	21.33	21.41	21.26			
	25	0	21.21	21.29	21.15			
LTE Band 66 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			132022	132322	132622			
			1715.0MHz	1745.0MHz	1775.0MHz			
QPSK	1	0	23.37	23.40	23.31	3.06	26.71	30.00
	1	24	23.34	23.57	23.46			
	1	49	23.46	23.65	23.52			
	25	0	22.40	22.55	22.37			
	25	12	22.41	22.56	22.45			
	25	24	22.43	22.44	22.34			
	50	0	22.34	22.45	22.38			
16QAM	1	0	22.97	22.83	22.78	3.06	26.22	30.00
	1	24	22.91	23.16	22.93			
	1	49	22.83	23.10	22.87			
	25	0	21.24	21.48	21.39			
	25	12	21.32	21.48	21.45			
	25	24	21.30	21.43	21.42			
	50	0	21.27	21.39	21.41			



LTE Band 66 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			132047	132322	132597			
			1717.5MHz	1745.0MHz	1772.5MHz			
QPSK	1	0	23.30	23.46	23.41	3.06	26.54	30.00
	1	37	23.47	23.48	23.24			
	1	74	23.42	23.43	23.33			
	36	0	22.41	22.39	22.51			
	36	16	22.33	22.47	22.52			
	36	35	22.28	22.24	22.46			
	75	0	22.22	22.31	22.30			
16QAM	1	0	22.48	22.51	22.43	3.06	25.74	30.00
	1	37	22.56	22.68	22.37			
	1	74	22.51	22.43	22.30			
	36	0	21.35	21.57	21.52			
	36	16	21.54	21.61	21.52			
	36	35	21.42	21.45	21.45			
	75	0	21.51	21.48	21.41			
LTE Band 66 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			132072	132322	132572			
			1720.0MHz	1745.0MHz	1770.0MHz			
QPSK	1	0	23.49	23.52	23.31	3.06	26.67	30.00
	1	49	23.32	23.46	23.22			
	1	99	23.58	23.61	23.51			
	50	0	22.36	22.56	22.32			
	50	24	22.37	22.58	22.36			
	50	49	22.42	22.40	22.42			
	100	0	22.41	22.45	22.27			
16QAM	1	0	22.53	22.59	22.33	3.06	25.77	30.00
	1	49	22.56	22.63	22.42			
	1	99	22.42	22.71	22.55			
	50	0	21.47	21.64	22.41			
	50	24	21.48	21.58	21.29			
	50	49	21.40	21.48	21.32			
	100	0	21.35	21.51	21.29			

**Peak To Average Ratio**

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	20	OneRB_high	Q16	5.73	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	6.28	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	5.99	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	6.50	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	5.76	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	6.45	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	5.59	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	6.28	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	6.25	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	6.35	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	5.60	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	6.33	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	5.27	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.79	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	5.65	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	5.69	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.66	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.82	13.00	Pass
FDD25	LowRange	20	OneRB_high	Q16	5.43	13.00	Pass
FDD25	LowRange	20	fullRB	Q16	5.99	13.00	Pass
FDD25	MidRange	20	OneRB_high	Q16	5.18	13.00	Pass
FDD25	MidRange	20	fullRB	Q16	6.12	13.00	Pass
FDD25	HighRange	20	OneRB_high	Q16	5.09	13.00	Pass
FDD25	HighRange	20	fullRB	Q16	6.10	13.00	Pass
FDD66	LowRange	20	OneRB_high	Q16	5.11	13.00	Pass
FDD66	LowRange	20	fullRB	Q16	5.91	13.00	Pass
FDD66	MidRange	20	OneRB_high	Q16	5.13	13.00	Pass
FDD66	MidRange	20	fullRB	Q16	5.99	13.00	Pass
FDD66	HighRange	20	OneRB_high	Q16	5.46	13.00	Pass
FDD66	HighRange	20	fullRB	Q16	6.05	13.00	Pass



TDD38	LowRange	20	OneRB_high	Q16	6.70	13.00	Pass
TDD38	LowRange	20	fullRB	Q16	6.17	13.00	Pass
TDD38	MidRange	20	OneRB_high	Q16	6.70	13.00	Pass
TDD38	MidRange	20	fullRB	Q16	6.38	13.00	Pass
TDD38	HighRange	20	OneRB_high	Q16	6.39	13.00	Pass
TDD38	HighRange	20	fullRB	Q16	6.38	13.00	Pass
TDD41	LowRange	20	OneRB_high	Q16	5.91	13.00	Pass
TDD41	LowRange	20	fullRB	Q16	6.16	13.00	Pass
TDD41	MidRange	20	OneRB_high	Q16	6.06	13.00	Pass
TDD41	MidRange	20	fullRB	Q16	6.31	13.00	Pass
TDD41	HighRange	20	OneRB_high	Q16	6.26	13.00	Pass
TDD41	HighRange	20	fullRB	Q16	6.21	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	4.47	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	6.17	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	5.17	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	5.99	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	4.40	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	6.04	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	4.72	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	5.78	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	4.60	13.00	Pass
FDD12	MidRange	10	fullRB	Q16	5.81	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	3.99	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	5.77	13.00	Pass
FDD13	LowRange	10	OneRB_high	Q16	5.59	13.00	Pass
FDD13	LowRange	10	fullRB	Q16	6.09	13.00	Pass
FDD13	MidRange	10	OneRB_high	Q16	5.50	13.00	Pass
FDD13	MidRange	10	fullRB	Q16	6.07	13.00	Pass
FDD13	HighRange	10	OneRB_high	Q16	5.54	13.00	Pass
FDD13	HighRange	10	fullRB	Q16	6.09	13.00	Pass
FDD17	LowRange	10	OneRB_high	Q16	4.60	13.00	Pass
FDD17	LowRange	10	fullRB	Q16	5.82	13.00	Pass
FDD17	MidRange	10	OneRB_high	Q16	4.22	13.00	Pass
FDD17	MidRange	10	fullRB	Q16	5.81	13.00	Pass
FDD17	HighRange	10	OneRB_high	Q16	3.99	13.00	Pass



FDD17	HighRange	10	fullRB	Q16	5.79	13.00	Pass
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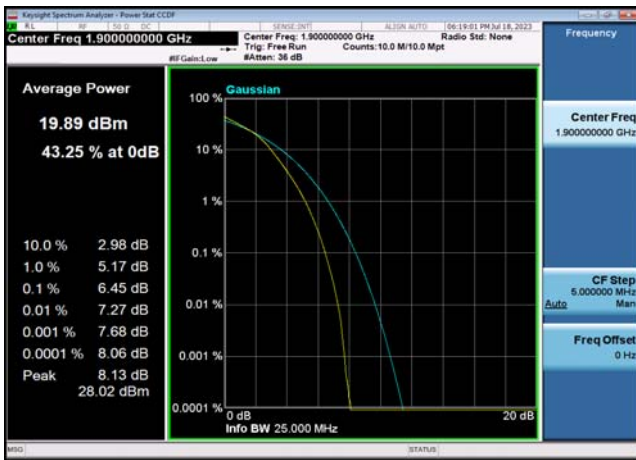
LTE Band 26(Part 22&RSS-132):

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD26	LowRange	10	OneRB_high	Q16	3.99	13.00	Pass
FDD26	LowRange	10	fullRB	Q16	5.64	13.00	Pass
FDD26	MidRange	10	OneRB_high	Q16	4.17	13.00	Pass
FDD26	MidRange	10	fullRB	Q16	5.54	13.00	Pass
FDD26	HighRange	10	OneRB_high	Q16	3.84	13.00	Pass
FDD26	HighRange	10	fullRB	Q16	5.53	13.00	Pass

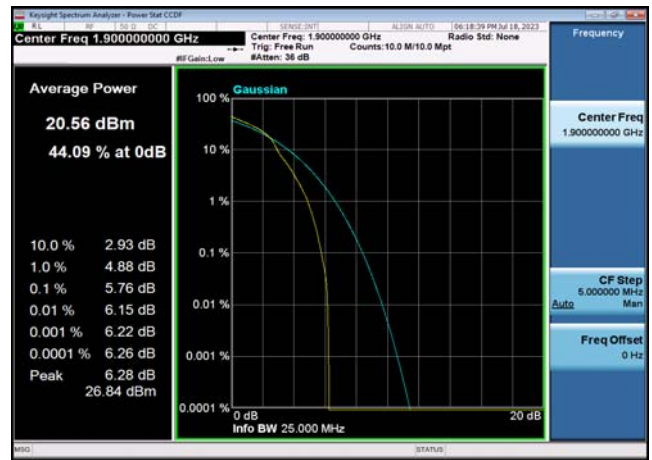
LTE Band 26(Part 90):

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD26	LowRange	10	OneRB_high	Q16	4.41	13.00	Pass
FDD26	LowRange	10	fullRB	Q16	5.64	13.00	Pass
FDD26	MidRange	10	OneRB_high	Q16	4.39	13.00	Pass
FDD26	MidRange	10	fullRB	Q16	5.68	13.00	Pass
FDD26	HighRange	10	OneRB_high	Q16	4.39	13.00	Pass
FDD26	HighRange	10	fullRB	Q16	5.67	13.00	Pass

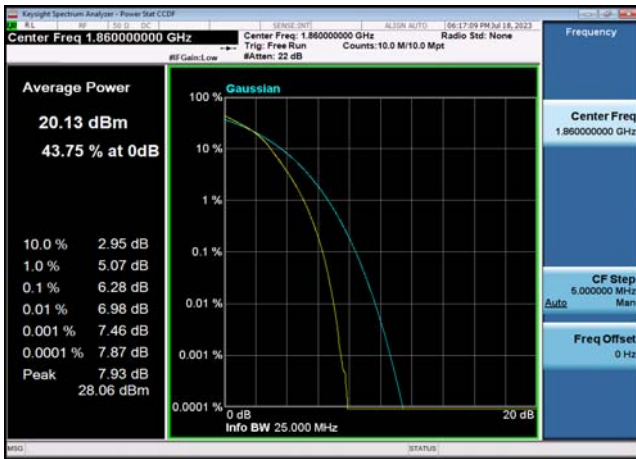
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_Q16



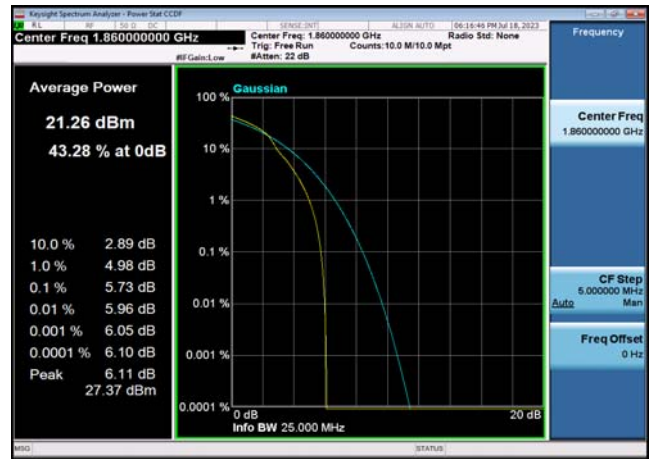
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_high_Q16



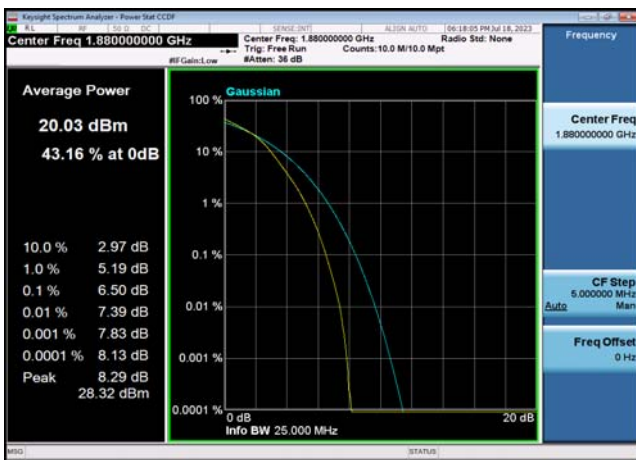
FDD02_LowRange_20MHz_1860_fullIRB
_Q16



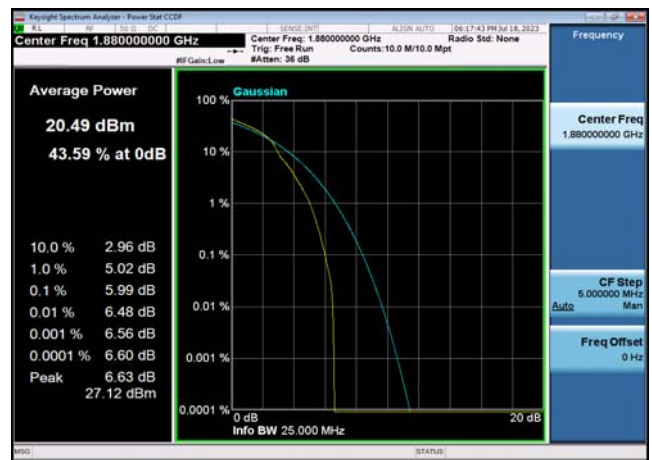
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_high_Q16



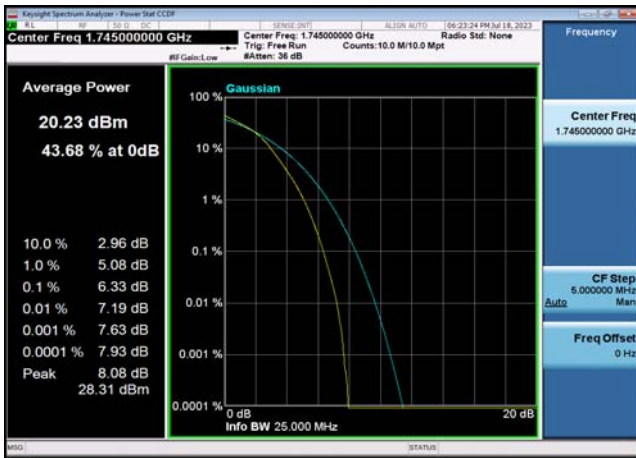
FDD02_MidRange_20MHz_1880_fullIRB
_Q16



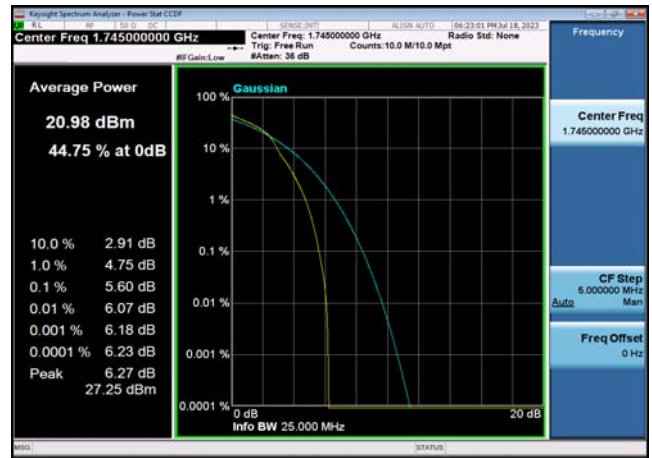
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_high_Q16



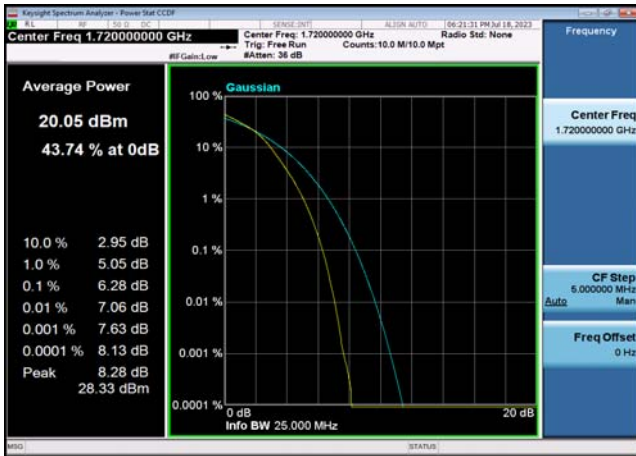
FDD04_HighRange_20MHz_1745_fullRB_Q16



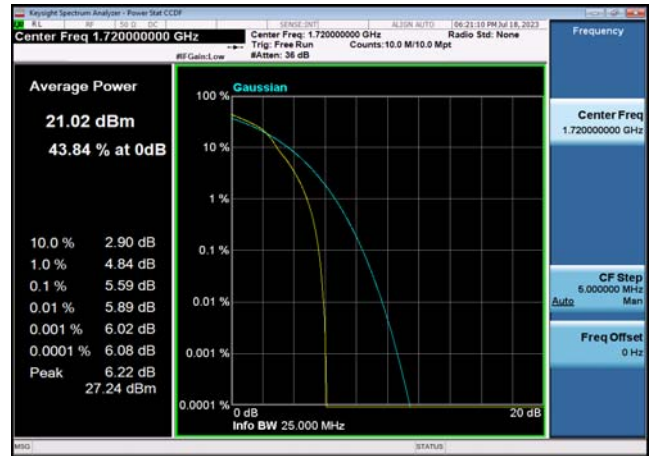
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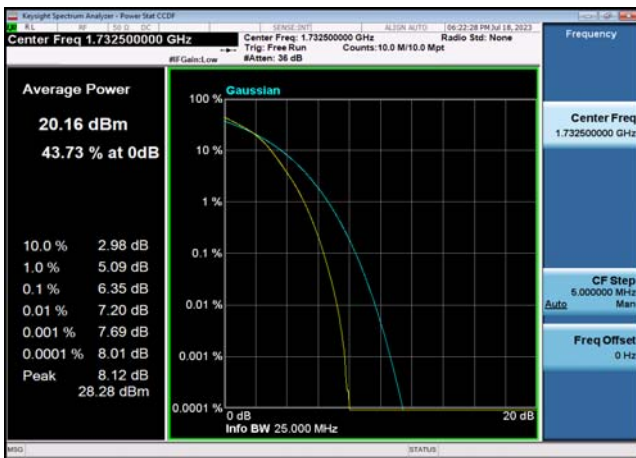
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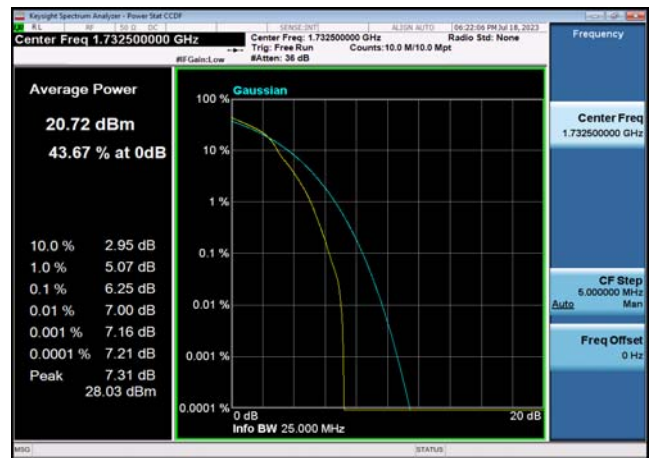
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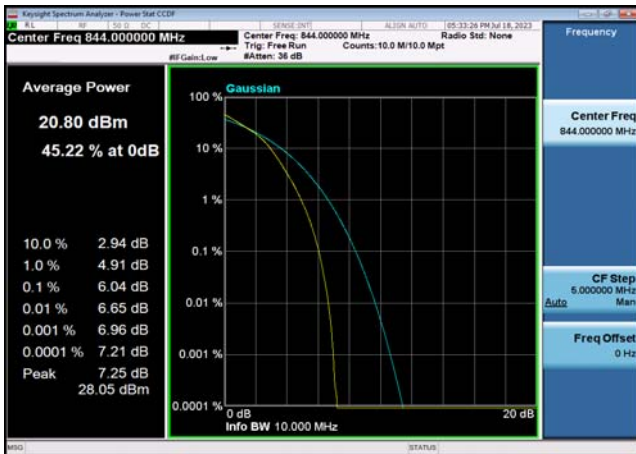
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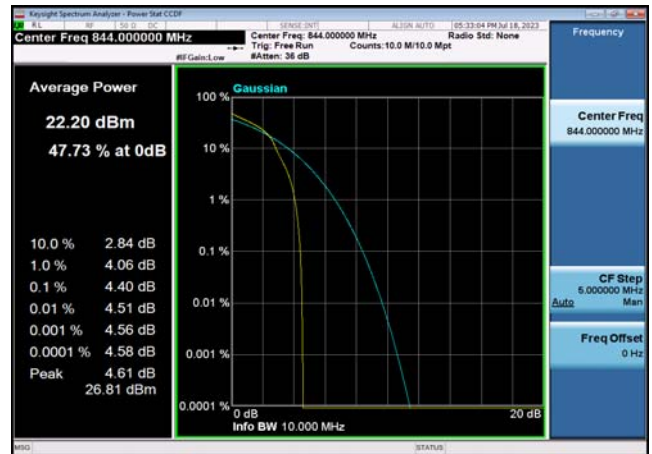
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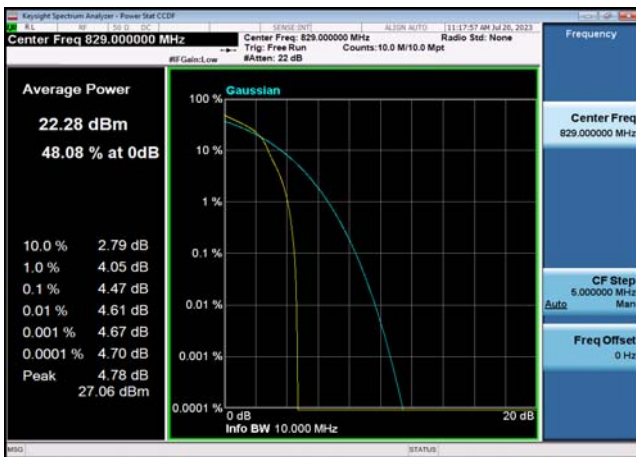
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_Q16



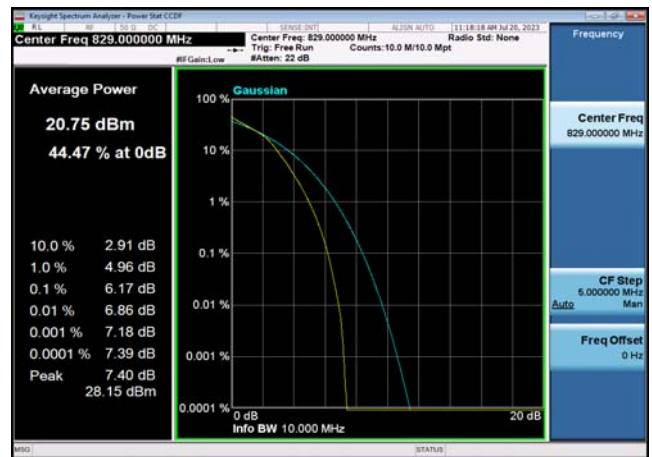
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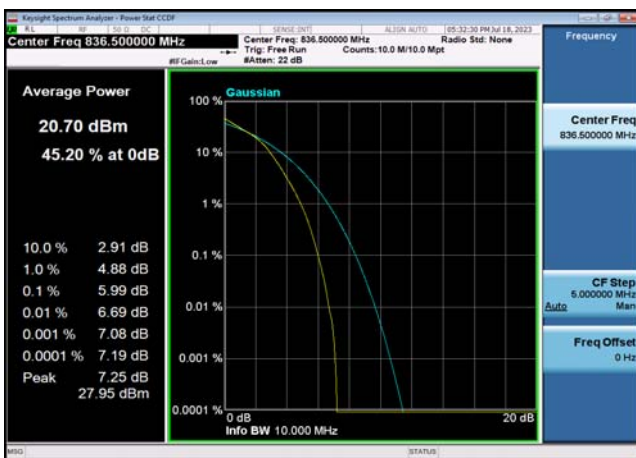
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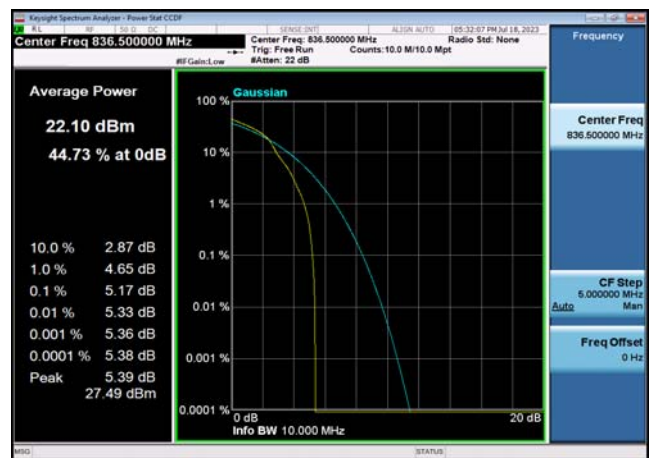
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_Q16



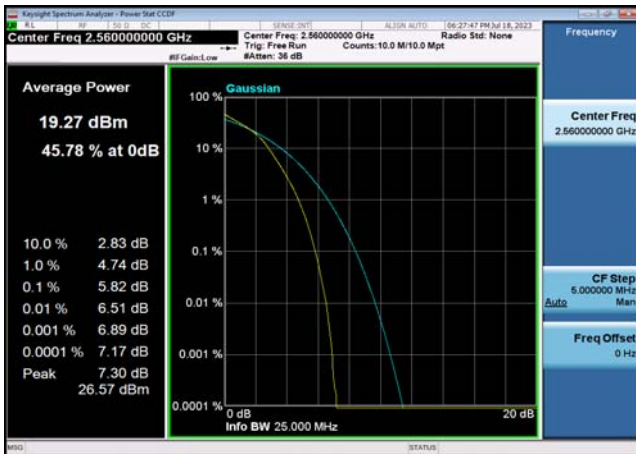
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_Q16



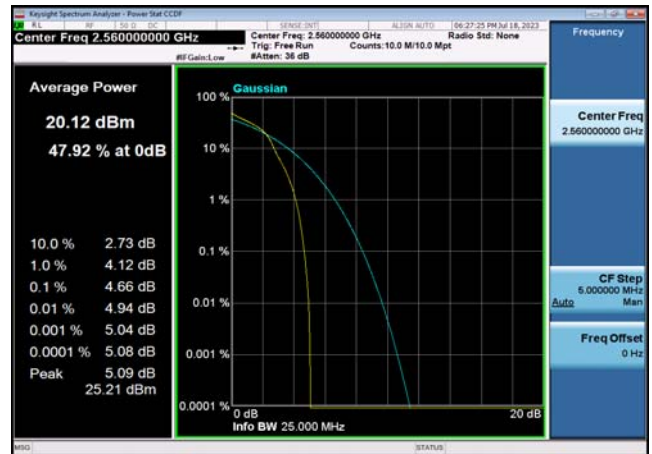
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_high_Q16



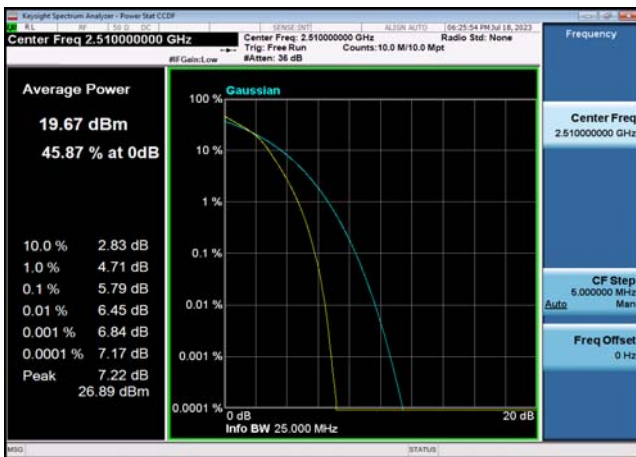
FDD07_HighRange_20MHz_2560_fullIRB
_Q16



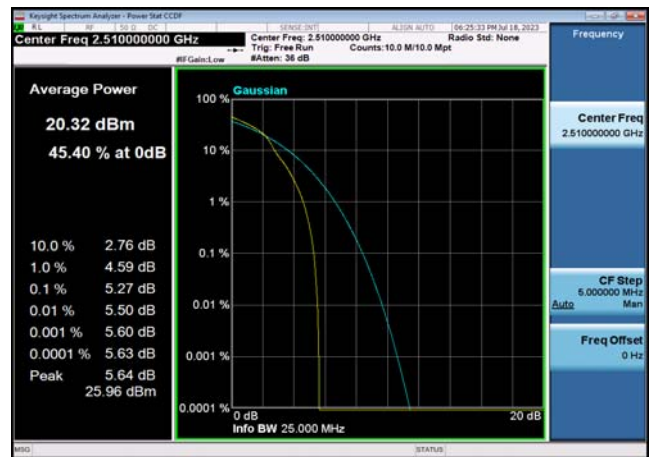
FDD07_HighRange_20MHz_2560_OneRB
_high_Q16



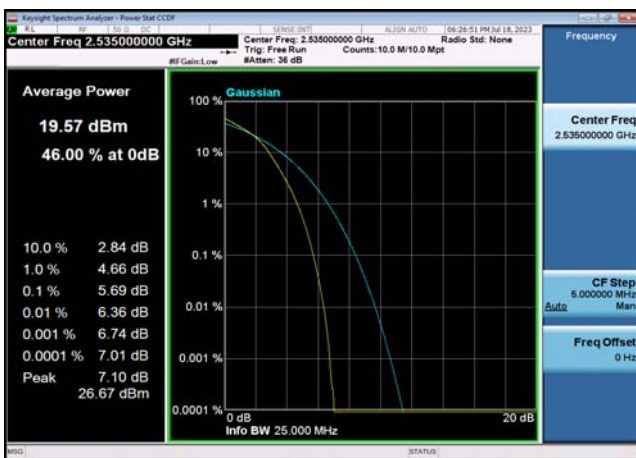
FDD07_LowRange_20MHz_2510_fullIRB
_Q16



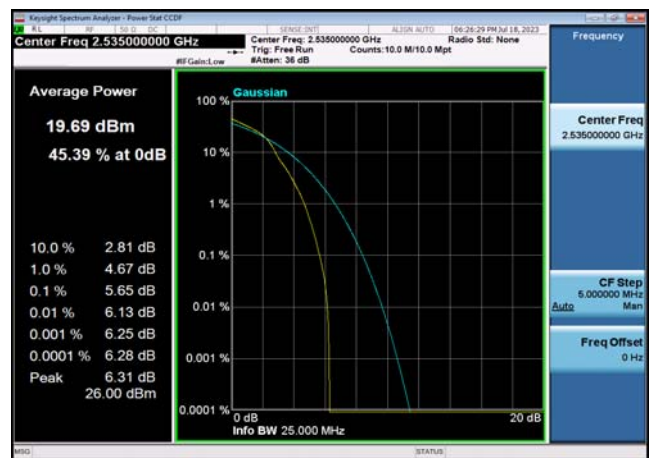
FDD07_LowRange_20MHz_2510_OneRB
_high_Q16



FDD07_MidRange_20MHz_2535_fullIRB
_Q16

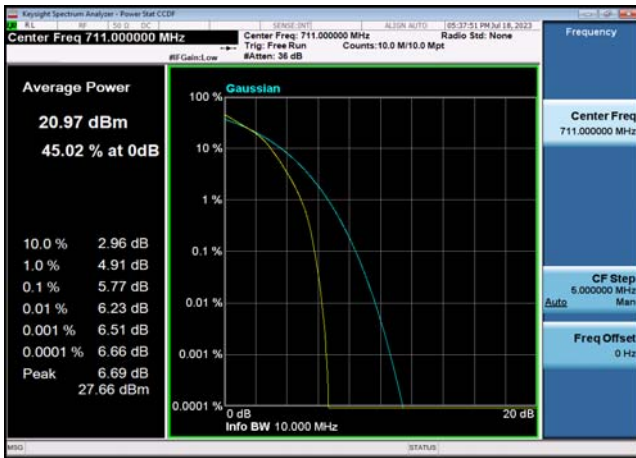


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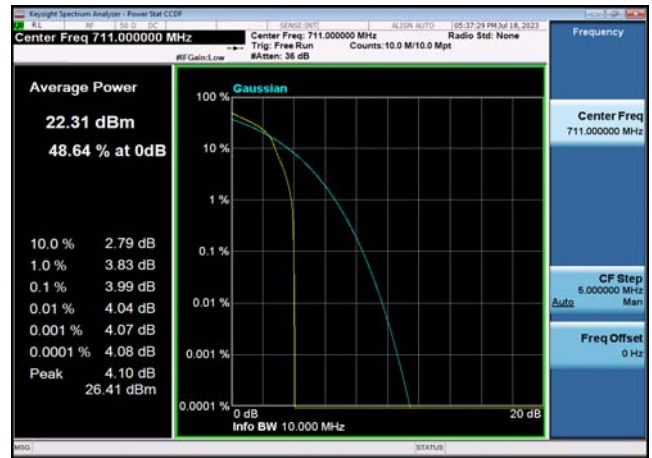




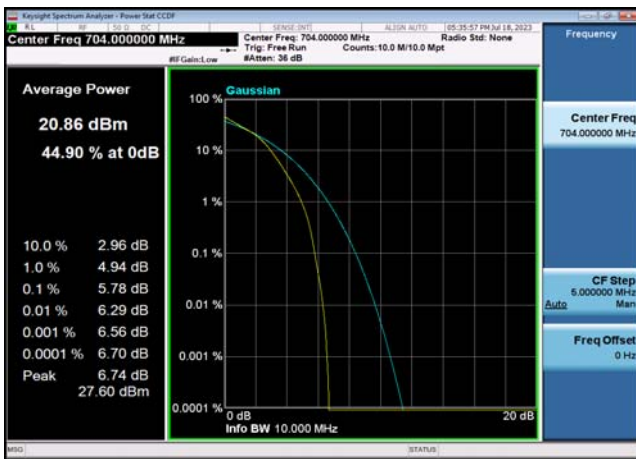
FDD12_HighRange_10MHz_711_fullIRB_Q16



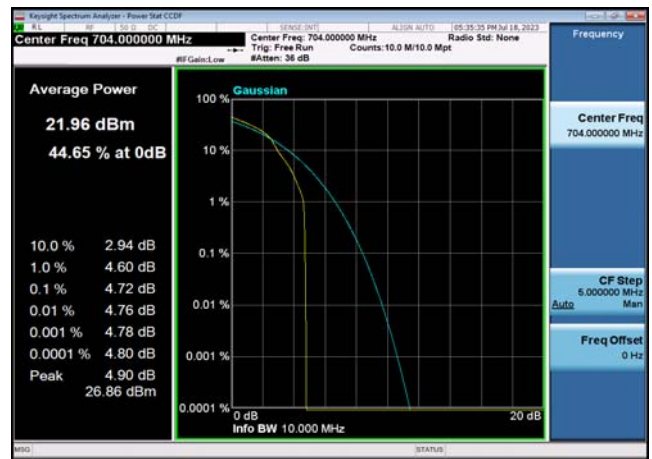
FDD12_HighRange_10MHz_711_OneRB_high_Q16



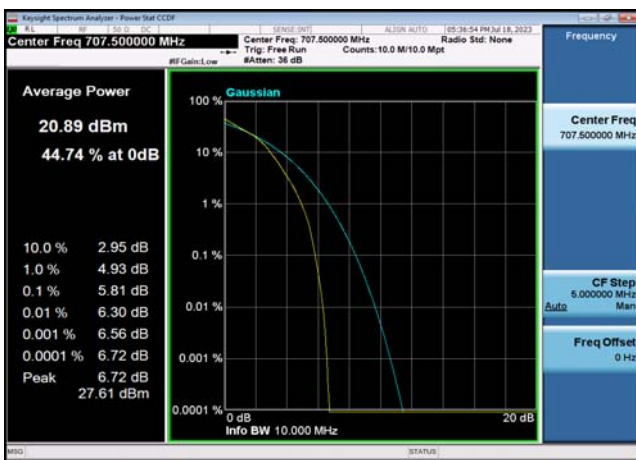
FDD12_LowRange_10MHz_704_fullIRB_Q16



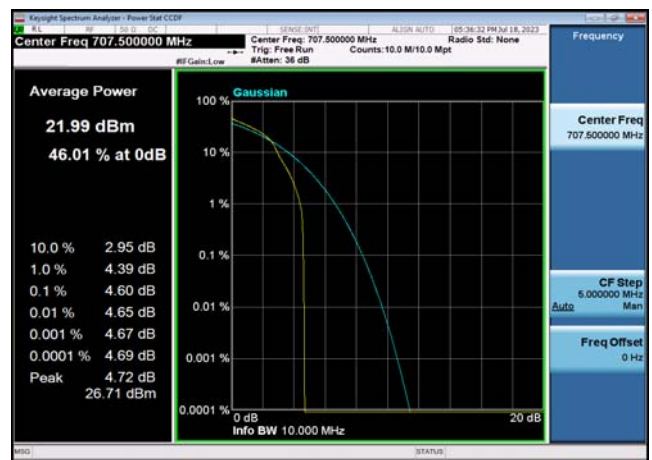
FDD12_LowRange_10MHz_704_OneRB_high_Q16



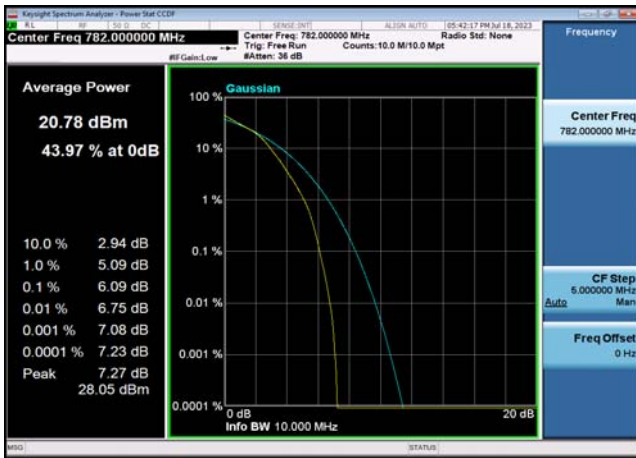
FDD12_MidRange_10MHz_707.5_fullIRB_Q16



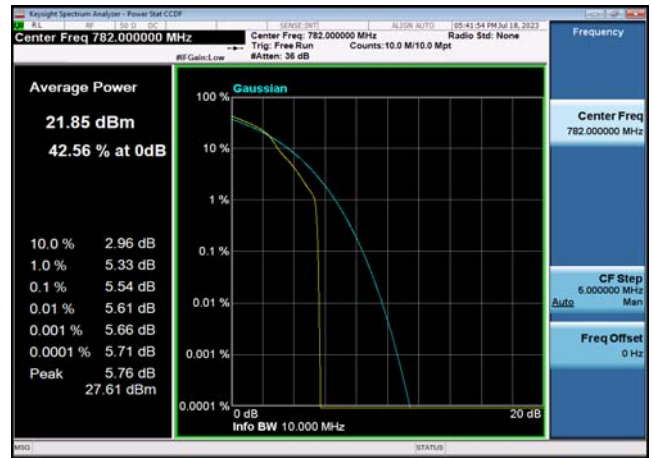
FDD12_MidRange_10MHz_707.5_OneRB_high_Q16



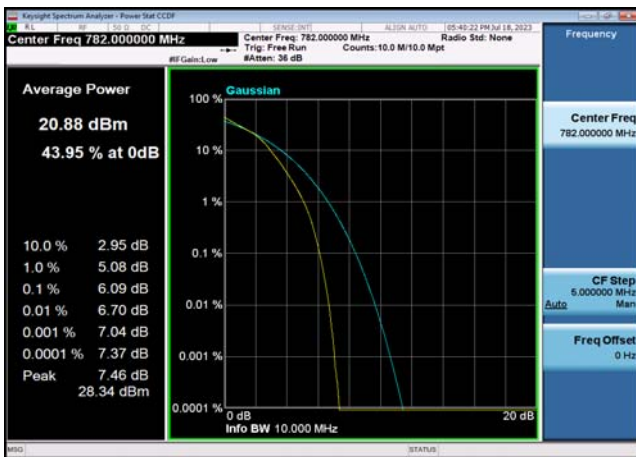
FDD13_HighRange_10MHz_782_fullIRB
_Q16



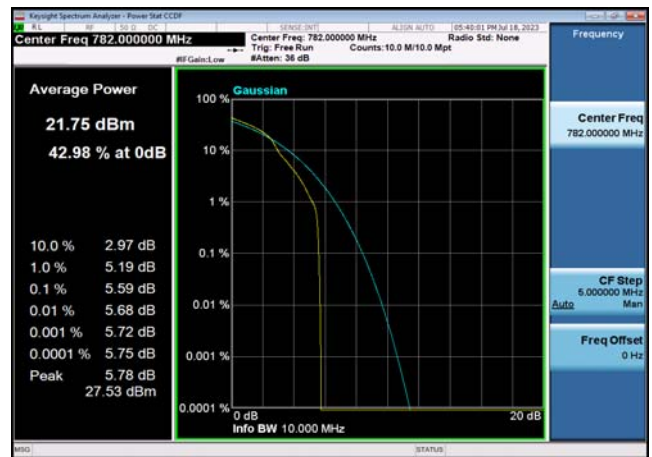
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_high_Q16



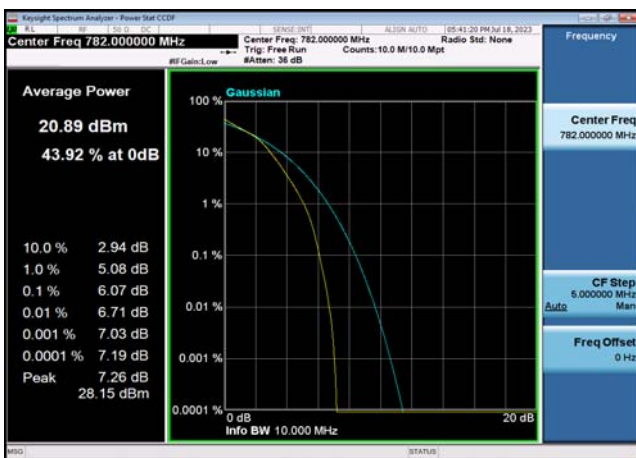
FDD13_LowRange_10MHz_782_fullIRB
_Q16



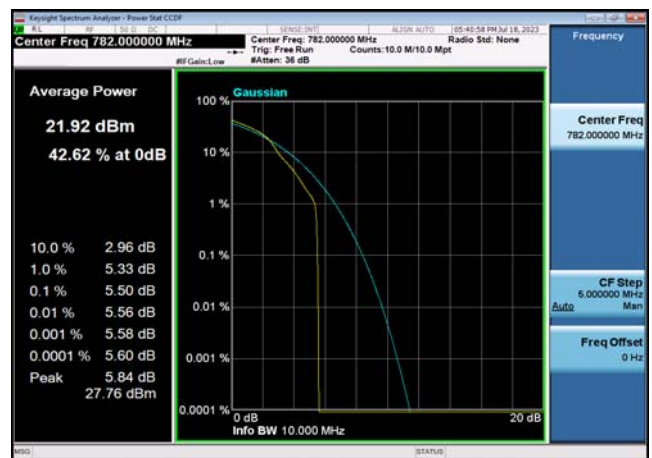
FDD13_LowRange_10MHz_782_OneRB
_high_Q16



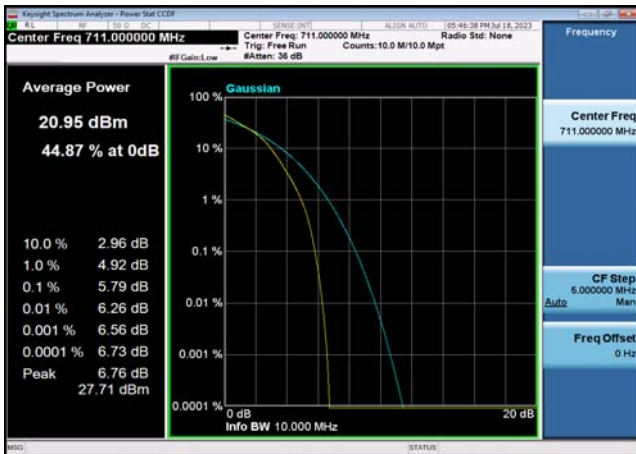
FDD13_MidRange_10MHz_782_fullIRB
_Q16



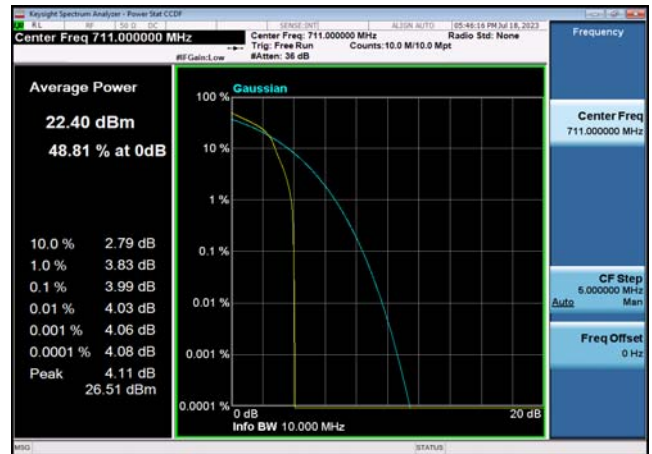
FDD13_MidRange_10MHz_782_OneRB
_high_Q16



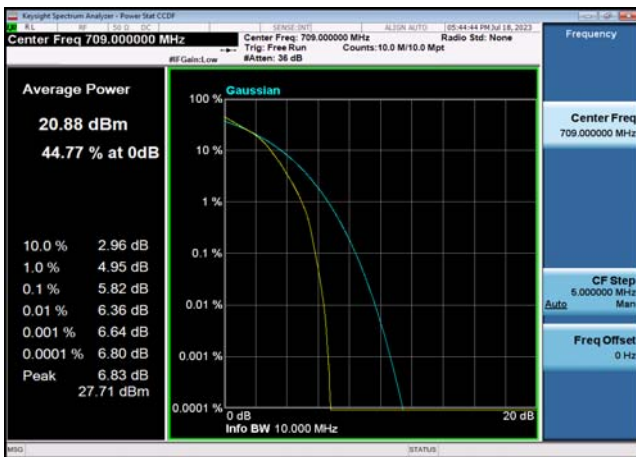
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_Q16



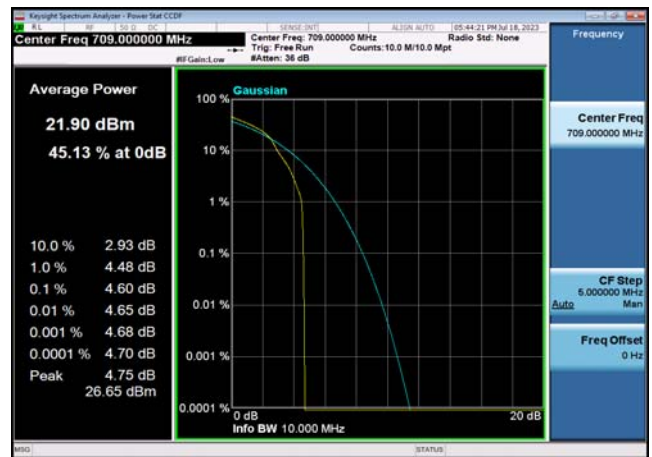
FDD17_HighRange_10MHz_711_OneRB
_high_Q16



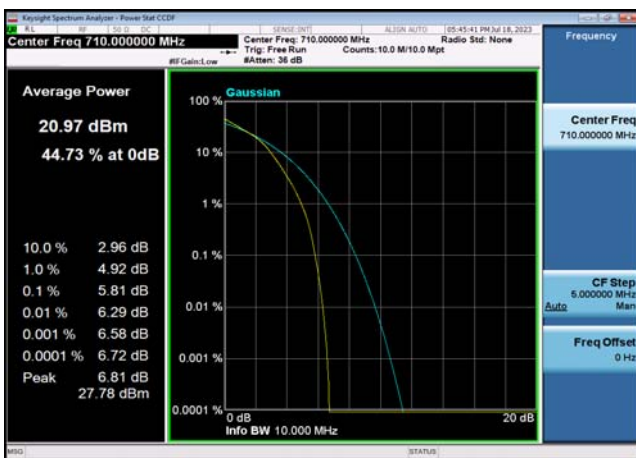
FDD17_LowRange_10MHz_709_fullIRB
_Q16



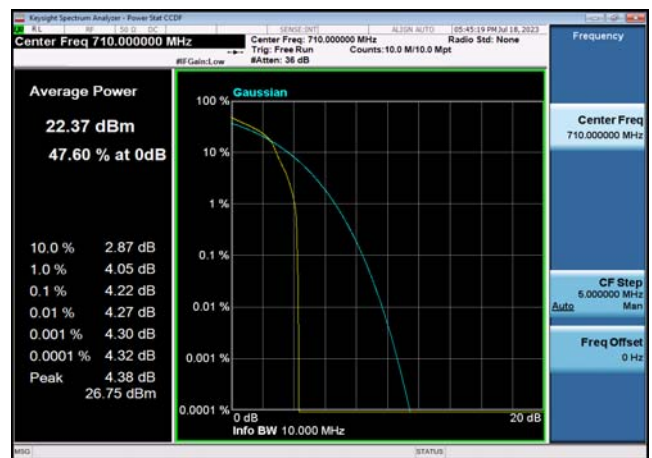
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_high_Q16



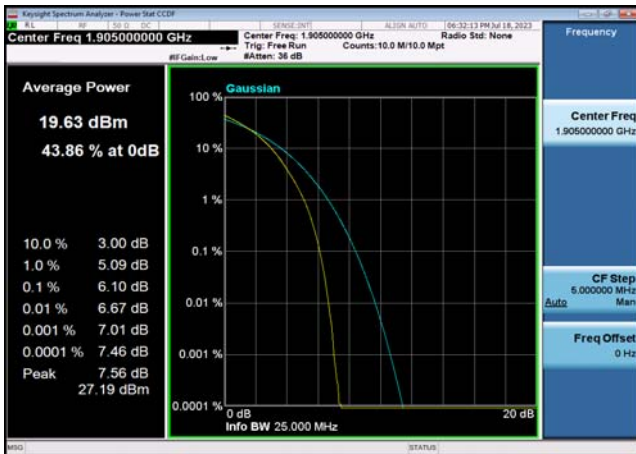
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_Q16



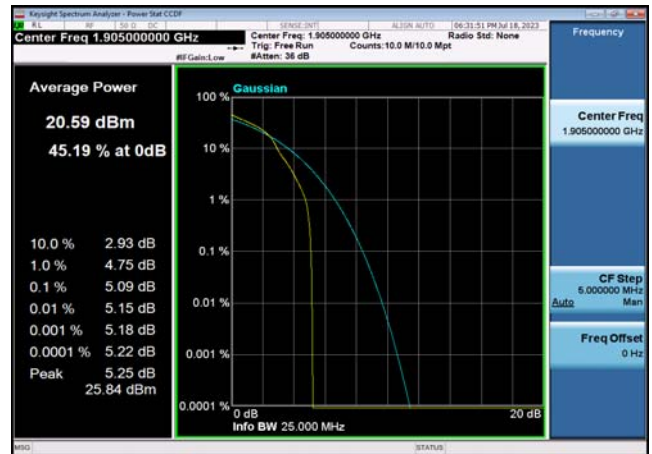
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_high_Q16



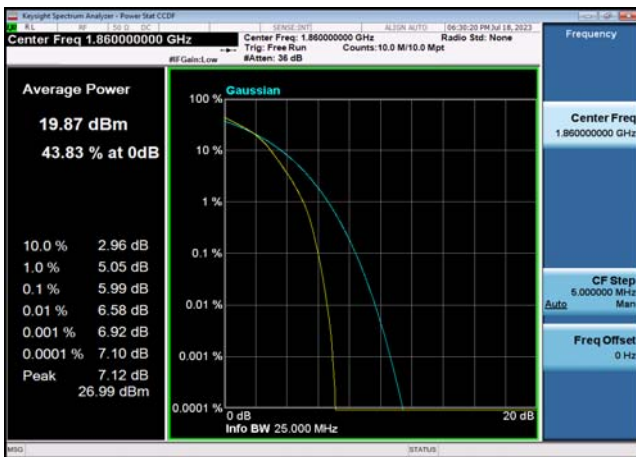
FDD25_HighRange_20MHz_1905_fullRB_Q16



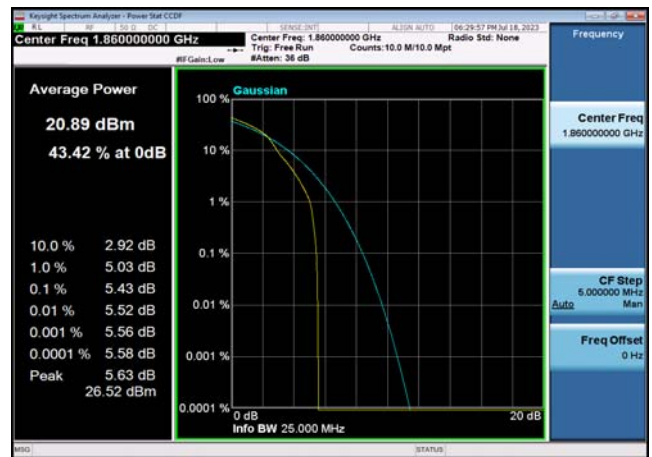
FDD25_HighRange_20MHz_1905_OneRB_high_Q16



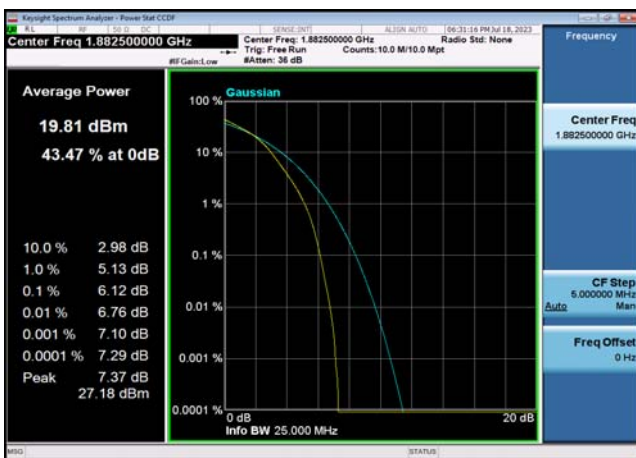
FDD25_LowRange_20MHz_1860_fullRB_Q16



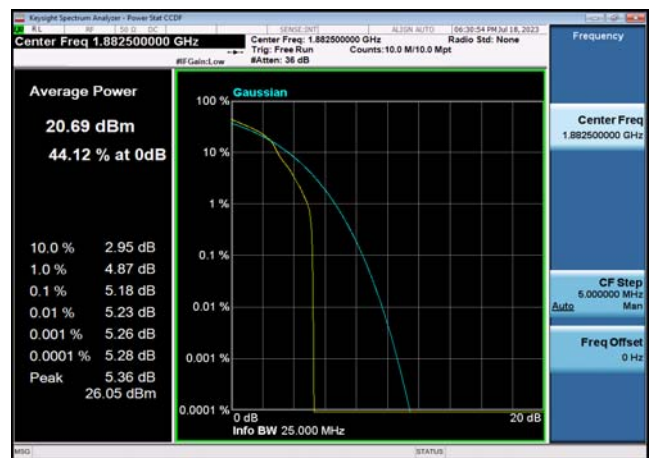
FDD25_LowRange_20MHz_1860_OneRB_high_Q16



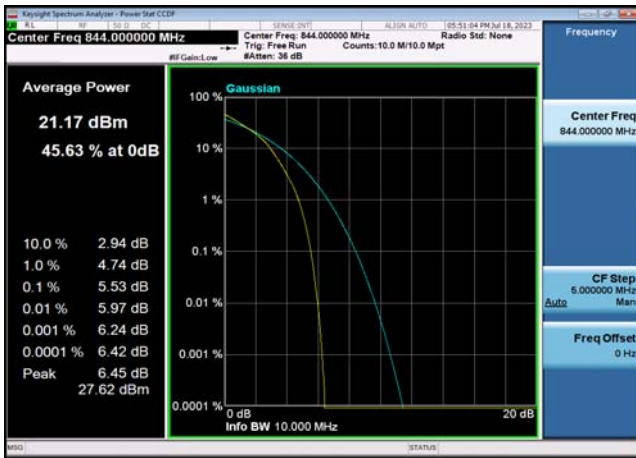
FDD25_MidRange_20MHz_1882.5_fullRB_Q16



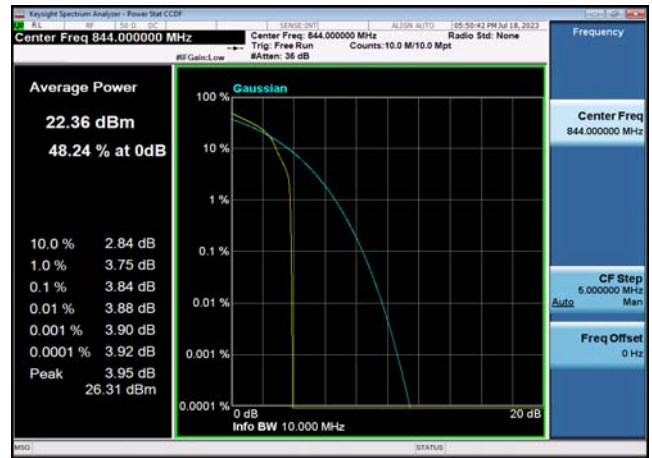
FDD25_MidRange_20MHz_1882.5_OneRB_high_Q16



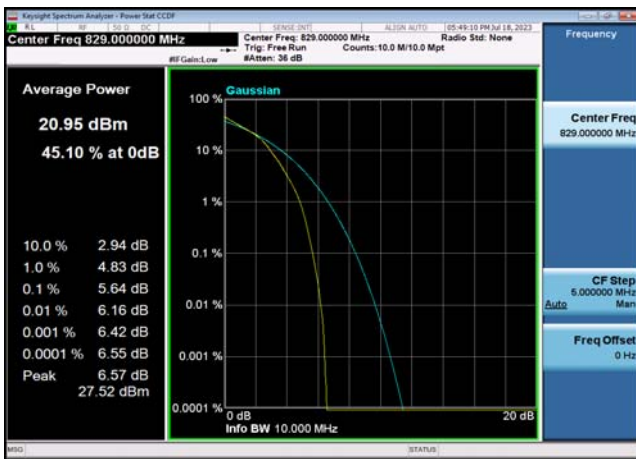
FDD26_(Part 22&RSS-132)
_HighRange_10MHz_844_fullRB_Q16



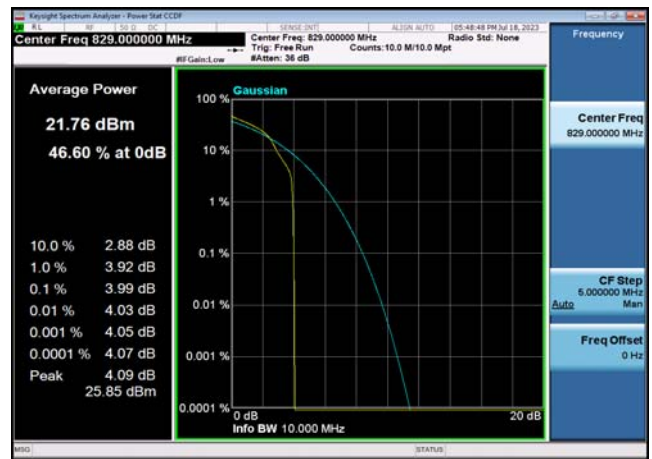
FDD26_(Part 22&RSS-132)
_HighRange_10MHz_844_OneRB_high_Q16



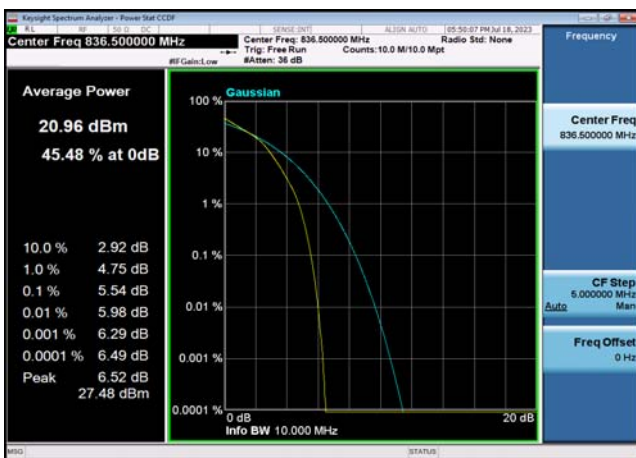
FDD26_(Part 22&RSS-132)
_LowRange_10MHz_829_fullRB_Q16



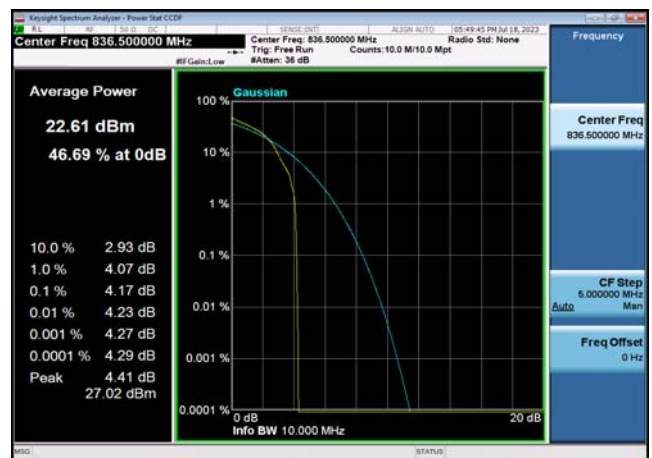
FDD26_(Part 22&RSS-132)
_LowRange_10MHz_829_OneRB_high_Q16



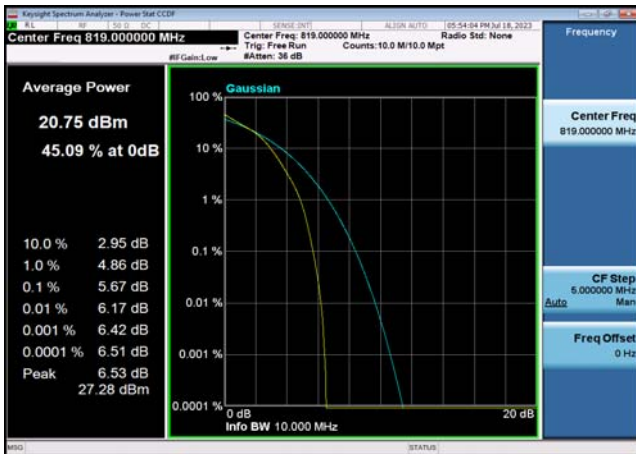
FDD26_(Part 22&RSS-132)
_MidRange_10MHz_836.5_fullRB_Q16



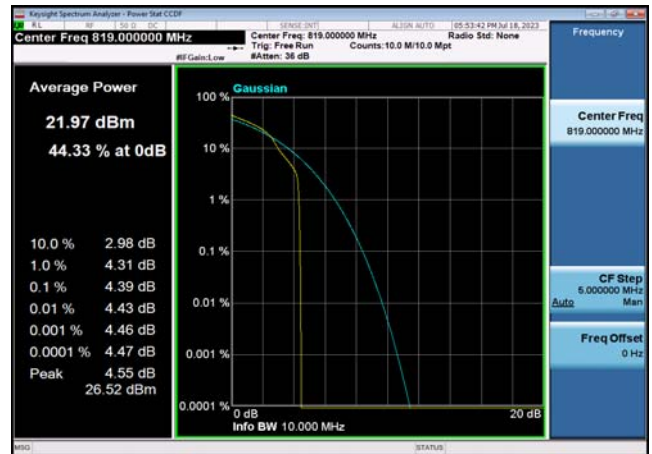
FDD26_(Part 22&RSS-132)
_MidRange_10MHz_836.5_OneRB_high_Q16



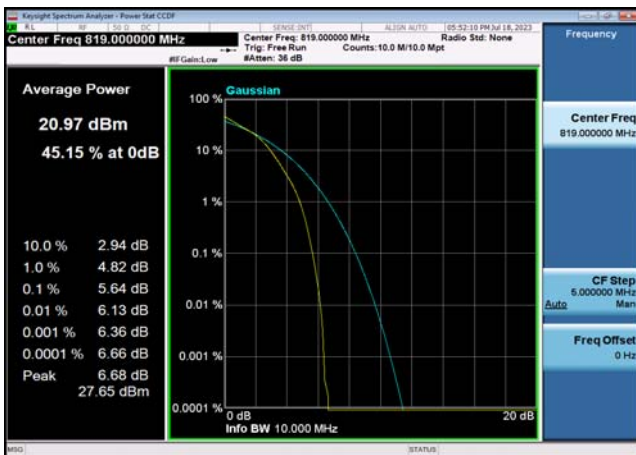
FDD26_Part 90_HighRange_10MHz_819_fullIRB_Q16



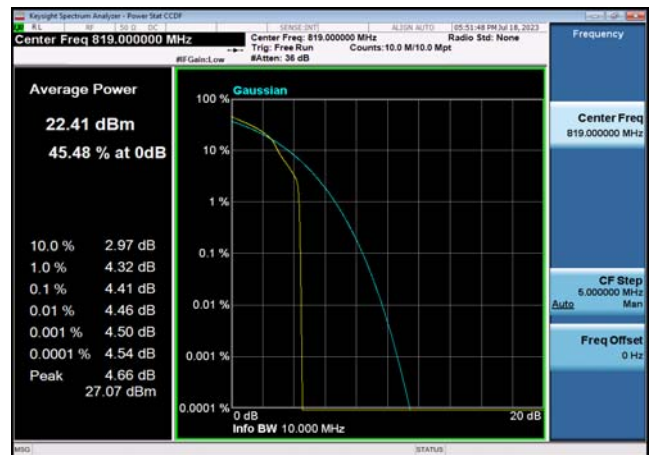
FDD26_Part 90_HighRange_10MHz_819_OneRB_high_Q16



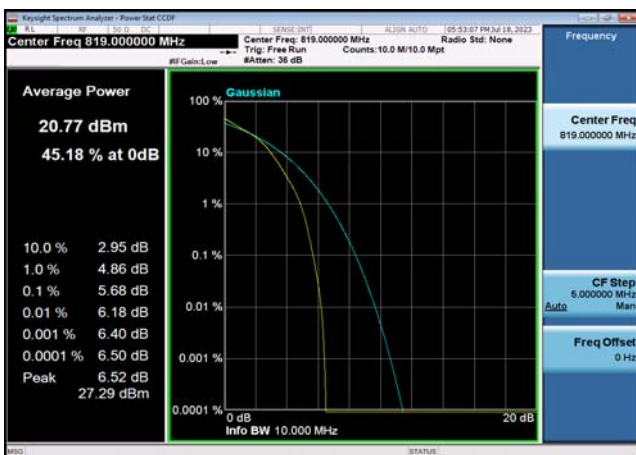
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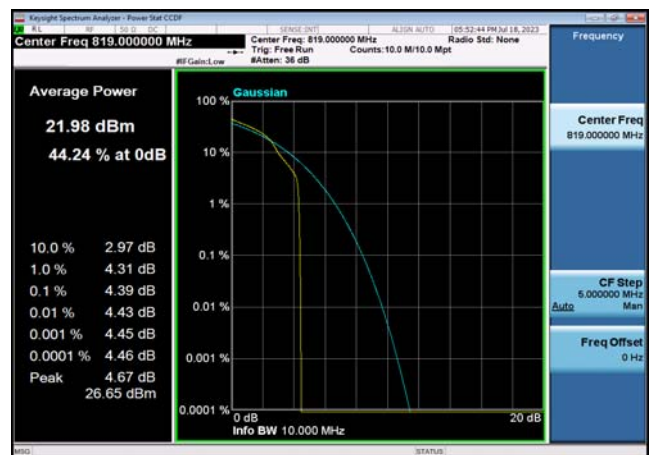
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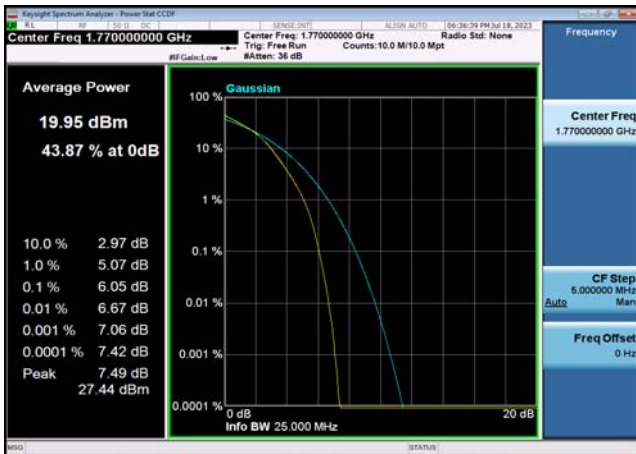
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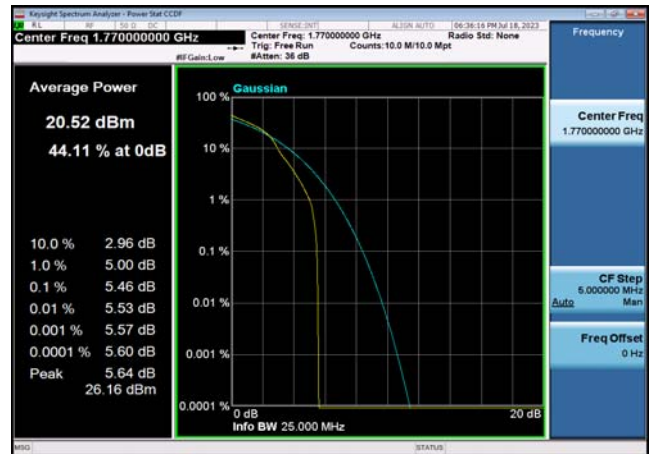
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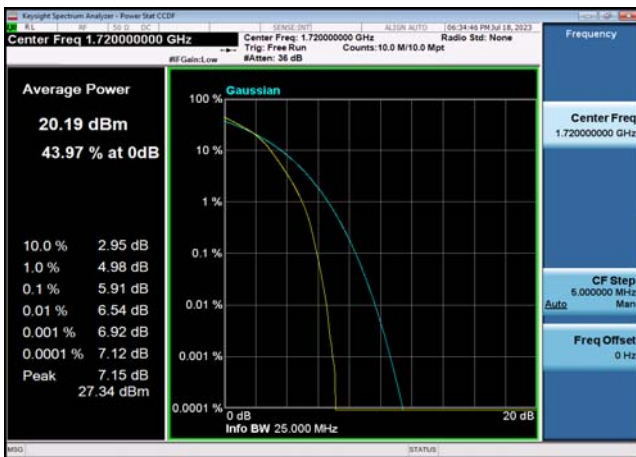
FDD66_HighRange_20MHz_1770_fullIRB
_Q16



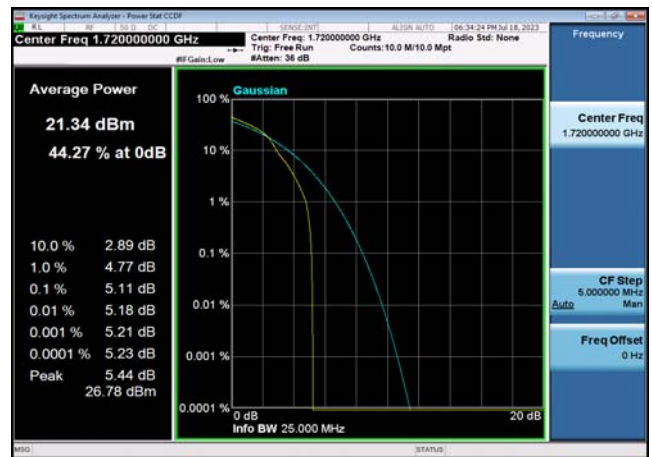
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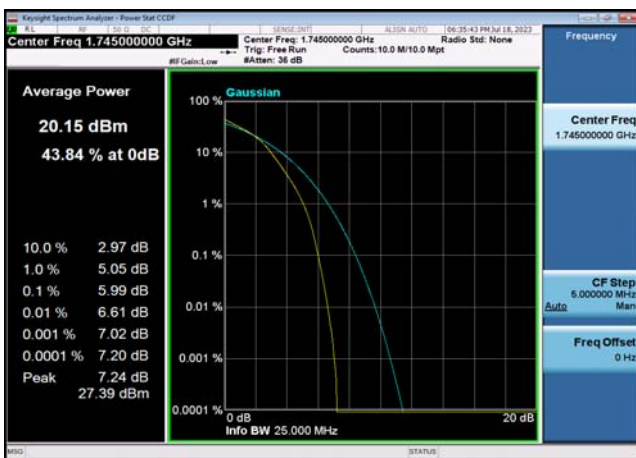
FDD66_LowRange_20MHz_1720_fullIRB
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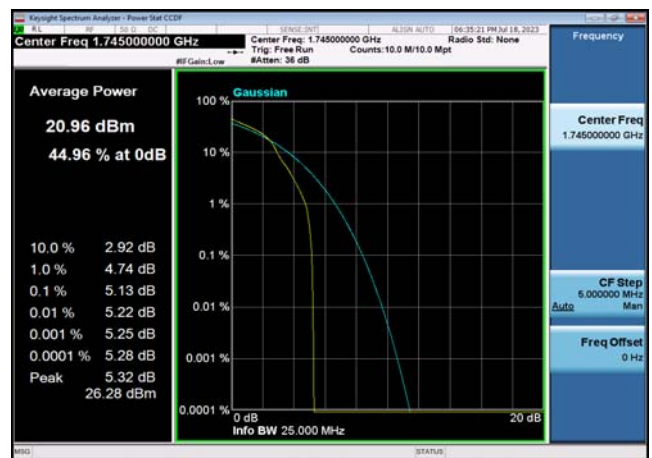
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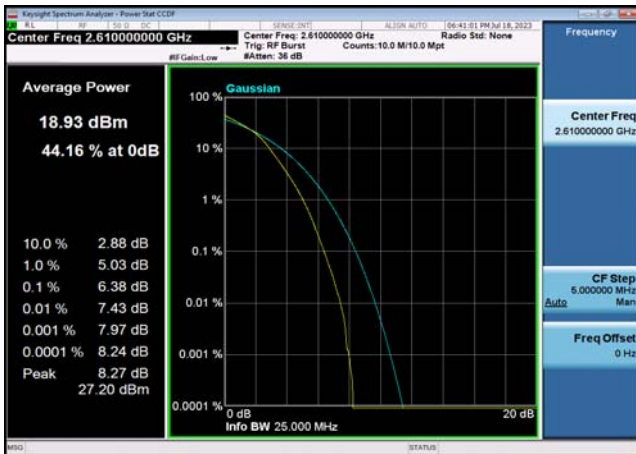
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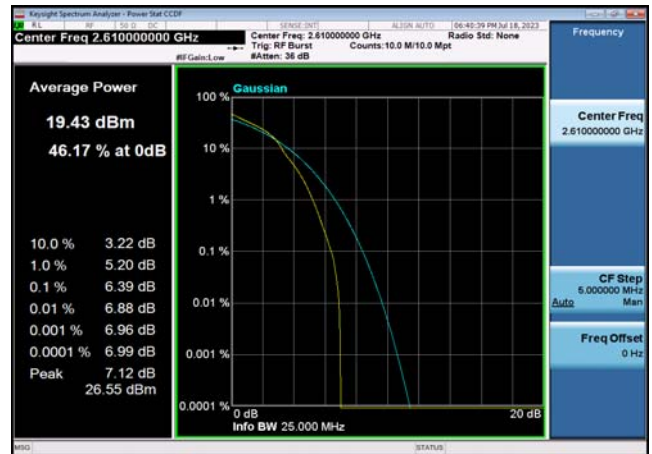
FDD66_MidRange_20MHz_1745_OneRB
_high_Q16



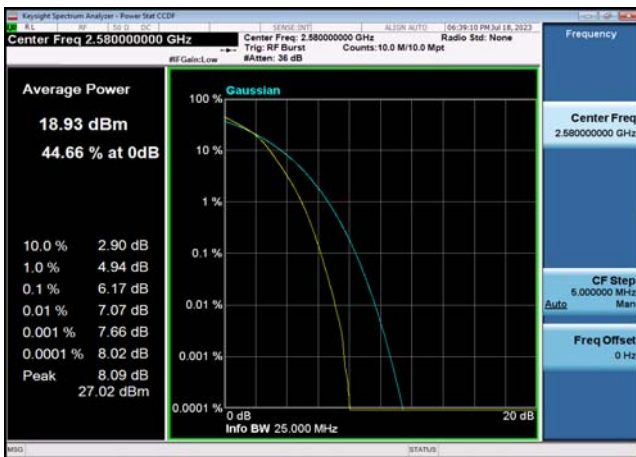
TDD38_HighRange_20MHz_2610_fullIRB
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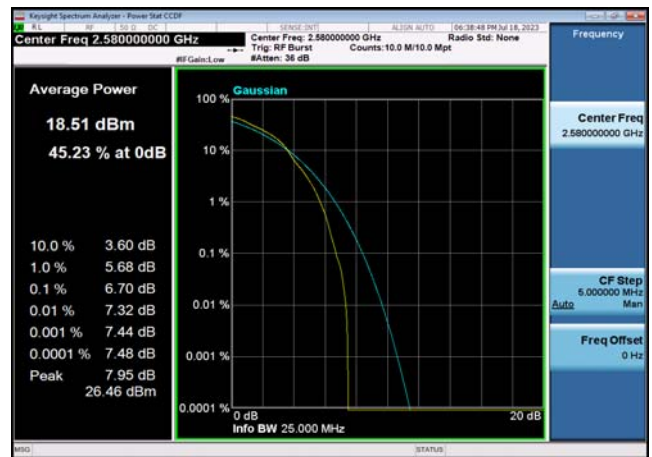
TDD38_HighRange_20MHz_2610_OneRB
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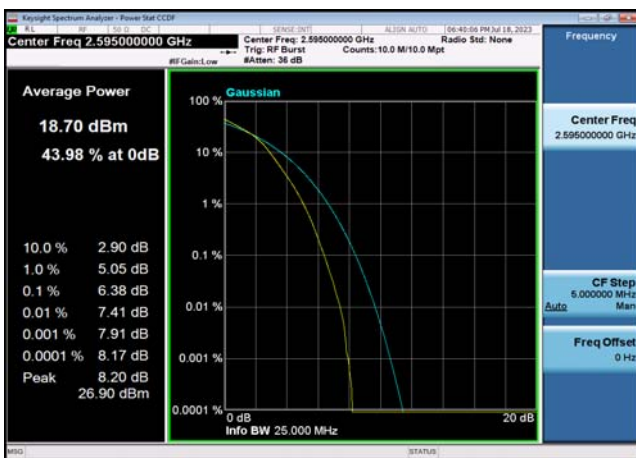
TDD38_LowRange_20MHz_2580_fullIRB
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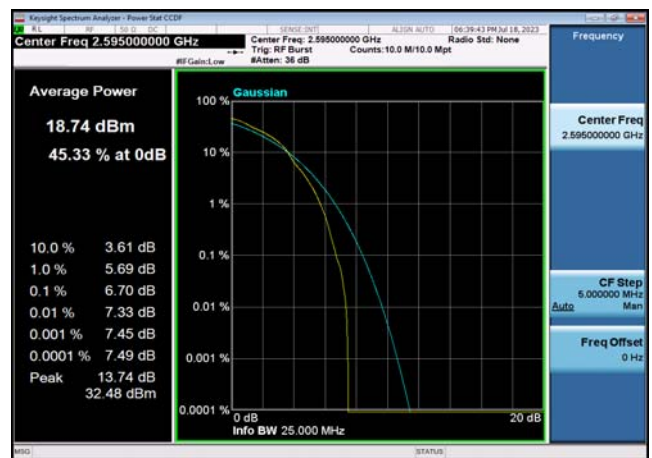
TDD38_LowRange_20MHz_2580_OneRB
_high_Q16



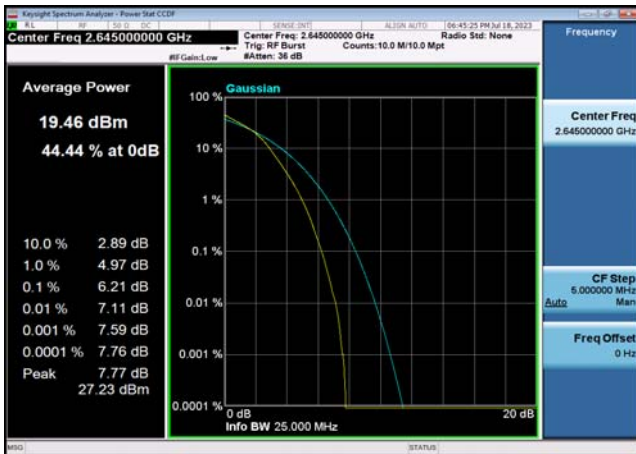
TDD38_MidRange_20MHz_2595_fullIRB
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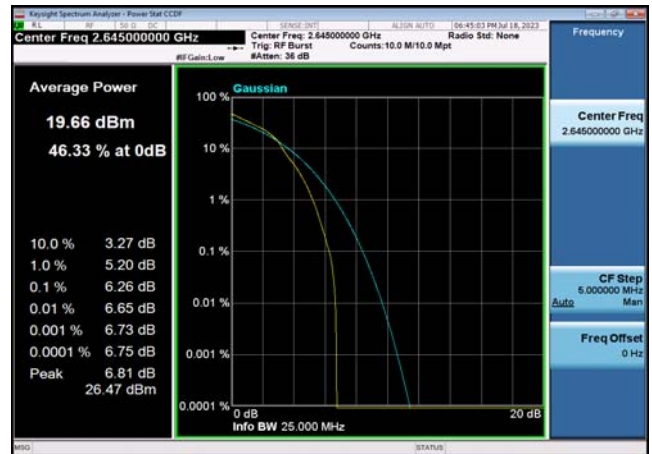
TDD38_MidRange_20MHz_2595_OneRB
_high_Q16



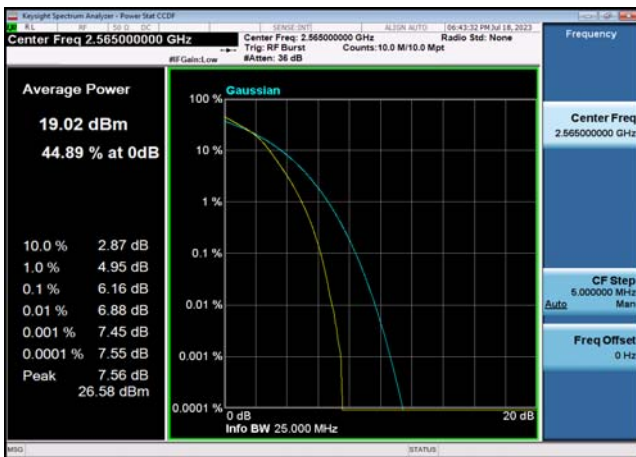
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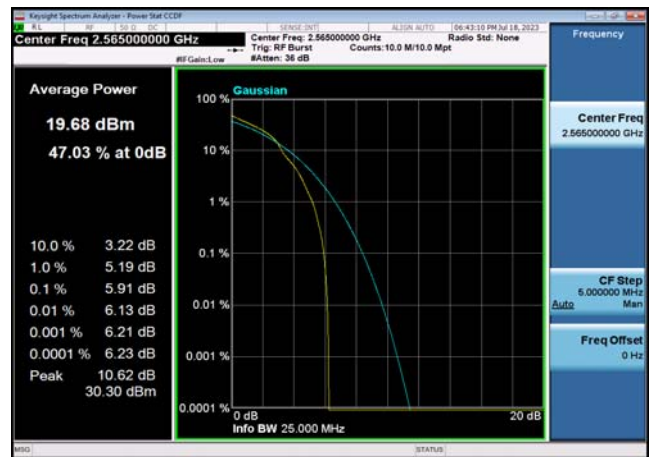
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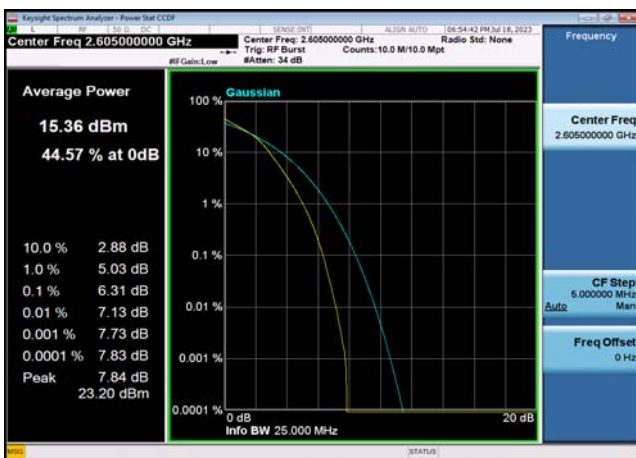
TDD41_LowRange_20MHz_2565_fullRB_Q16



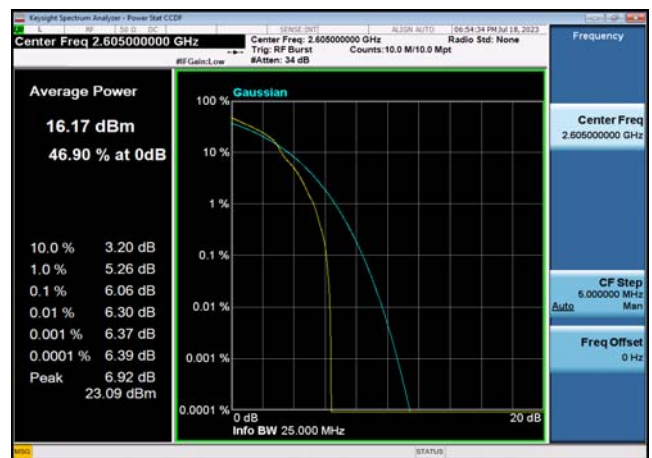
TDD41_LowRange_20MHz_2565_OneRB_high_Q16



TDD41_MidRange_20MHz_2595_fullRB_Q16



TDD41_MidRange_20MHz_2595_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	1.09	1.265
FDD02	MidRange	1.4	1880	Q16	1.093	1.259
FDD02	MidRange	3	1880	QPSK	2.684	2.867
FDD02	MidRange	3	1880	Q16	2.679	2.891
FDD02	MidRange	5	1880	QPSK	4.5	4.842
FDD02	MidRange	5	1880	Q16	4.49	4.834
FDD02	MidRange	10	1880	QPSK	8.925	9.382
FDD02	MidRange	10	1880	Q16	8.915	9.398
FDD02	MidRange	15	1880	QPSK	13.438	14.26
FDD02	MidRange	15	1880	Q16	13.43	14.27
FDD02	MidRange	20	1880	QPSK	17.872	18.7
FDD02	MidRange	20	1880	Q16	17.866	18.71
FDD04	MidRange	1.4	1732.5	QPSK	1.093	1.250
FDD04	MidRange	1.4	1732.5	Q16	1.09	1.269
FDD04	MidRange	3	1732.5	QPSK	2.68	2.872
FDD04	MidRange	3	1732.5	Q16	2.679	2.895
FDD04	MidRange	5	1732.5	QPSK	4.489	4.839
FDD04	MidRange	5	1732.5	Q16	4.494	4.832
FDD04	MidRange	10	1732.5	QPSK	8.92	9.413
FDD04	MidRange	10	1732.5	Q16	8.904	9.357
FDD04	MidRange	15	1732.5	QPSK	13.417	14.26
FDD04	MidRange	15	1732.5	Q16	13.416	14.22
FDD04	MidRange	20	1732.5	QPSK	17.849	18.74
FDD04	MidRange	20	1732.5	Q16	17.846	18.73
FDD05	MidRange	1.4	836.5	QPSK	1.089	1.262
FDD05	MidRange	1.4	836.5	Q16	1.089	1.263
FDD05	MidRange	3	836.5	QPSK	2.682	2.880
FDD05	MidRange	3	836.5	Q16	2.679	2.899
FDD05	MidRange	5	836.5	QPSK	4.484	4.848
FDD05	MidRange	5	836.5	Q16	4.489	4.839



FDD05	MidRange	10	836.5	QPSK	8.935	9.395
FDD05	MidRange	10	836.5	Q16	8.907	9.359
FDD07	MidRange	5	2535	QPSK	4.493	4.817
FDD07	MidRange	5	2535	Q16	4.489	4.849
FDD07	MidRange	10	2535	QPSK	8.912	9.419
FDD07	MidRange	10	2535	Q16	8.912	9.375
FDD07	MidRange	15	2535	QPSK	13.433	14.29
FDD07	MidRange	15	2535	Q16	13.428	14.28
FDD07	MidRange	20	2535	QPSK	17.857	18.75
FDD07	MidRange	20	2535	Q16	17.846	18.77
FDD12	MidRange	1.4	707.5	QPSK	1.089	1.277
FDD12	MidRange	1.4	707.5	Q16	1.09	1.260
FDD12	MidRange	3	707.5	QPSK	2.678	2.866
FDD12	MidRange	3	707.5	Q16	2.68	2.873
FDD12	MidRange	5	707.5	QPSK	4.493	4.834
FDD12	MidRange	5	707.5	Q16	4.491	4.839
FDD12	MidRange	10	707.5	QPSK	8.922	9.434
FDD12	MidRange	10	707.5	Q16	8.912	9.469
FDD13	MidRange	5	782	QPSK	4.493	4.845
FDD13	MidRange	5	782	Q16	4.488	4.864
FDD13	MidRange	10	782	QPSK	8.929	9.508
FDD13	MidRange	10	782	Q16	8.92	9.421
FDD17	MidRange	5	710	QPSK	4.491	4.828
FDD17	MidRange	5	710	Q16	4.493	4.860
FDD17	MidRange	10	710	QPSK	8.922	9.393
FDD17	MidRange	10	710	Q16	8.905	9.427
FDD25	MidRange	1.4	1882.5	QPSK	1.094	1.265
FDD25	MidRange	1.4	1882.5	Q16	1.088	1.267
FDD25	MidRange	3	1882.5	QPSK	2.681	2.882
FDD25	MidRange	3	1882.5	Q16	2.676	2.898
FDD25	MidRange	5	1882.5	QPSK	4.493	4.868
FDD25	MidRange	5	1882.5	Q16	4.491	4.842
FDD25	MidRange	10	1882.5	QPSK	8.919	9.412
FDD25	MidRange	10	1882.5	Q16	8.913	9.344
FDD25	MidRange	15	1882.5	QPSK	13.438	14.25



FDD25	MidRange	15	1882.5	Q16	13.426	14.22
FDD25	MidRange	20	1882.5	QPSK	17.869	18.73
FDD25	MidRange	20	1882.5	Q16	17.849	18.71
TDD38	MidRange	5	2595	QPSK	4.487	4.786
TDD38	MidRange	5	2595	Q16	4.484	4.809
TDD38	MidRange	10	2595	QPSK	8.92	9.394
TDD38	MidRange	10	2595	Q16	8.902	9.341
TDD38	MidRange	15	2595	QPSK	13.427	14.22
TDD38	MidRange	15	2595	Q16	13.433	14.21
TDD38	MidRange	20	2595	QPSK	17.846	18.75
TDD38	MidRange	20	2595	Q16	17.851	18.71
TDD41	MidRange	5	2595	QPSK	4.483	4.814
TDD41	MidRange	5	2595	Q16	4.482	4.831
TDD41	MidRange	10	2595	QPSK	8.912	9.348
TDD41	MidRange	10	2595	Q16	8.922	9.313
TDD41	MidRange	15	2595	QPSK	13.435	14.22
TDD41	MidRange	15	2595	Q16	13.426	14.26
TDD41	MidRange	20	2595	QPSK	17.844	18.75
TDD41	MidRange	20	2595	Q16	17.837	18.71
FDD66	MidRange	1.4	1745	QPSK	1.093	1.286
FDD66	MidRange	1.4	1745	Q16	1.091	1.268
FDD66	MidRange	3	1745	QPSK	2.677	2.891
FDD66	MidRange	3	1745	Q16	2.681	2.898
FDD66	MidRange	5	1745	QPSK	4.491	4.858
FDD66	MidRange	5	1745	Q16	4.489	4.845
FDD66	MidRange	10	1745	QPSK	8.919	9.405
FDD66	MidRange	10	1745	Q16	8.913	9.406
FDD66	MidRange	15	1745	QPSK	13.431	14.27
FDD66	MidRange	15	1745	Q16	13.43	14.25
FDD66	MidRange	20	1745	QPSK	17.879	18.74
FDD66	MidRange	20	1745	Q16	17.875	18.76

**LTE Band 26(Part 22&RSS-132):**

Occupied Bandwidth NormalTC_NormalVol						
Band	Range	BandWidth	Frequency (MHz)	Modulation	99% OBW (MHz)	26dB EBW (MHz)
FDD26	MidRange	1.4	836.5	QPSK	1.095	1.244
FDD26	MidRange	1.4	836.5	Q16	1.091	1.280
FDD26	MidRange	3	836.5	QPSK	2.681	2.876
FDD26	MidRange	3	836.5	Q16	2.678	2.865
FDD26	MidRange	5	836.5	QPSK	4.487	4.832
FDD26	MidRange	5	836.5	Q16	4.486	4.848
FDD26	MidRange	10	836.5	QPSK	8.923	9.380
FDD26	MidRange	10	836.5	Q16	8.911	9.408
FDD26	MidRange	15	836.5	QPSK	13.421	14.30
FDD26	MidRange	15	836.5	Q16	13.406	14.21

LTE Band 26(Part 90):

Occupied Bandwidth NormalTC_NormalVol						
Band	Range	BandWidth	Frequency (MHz)	Modulation	99% OBW (MHz)	26dB EBW (MHz)
FDD26	MidRange	1.4	819	QPSK	1.088	1.272
FDD26	MidRange	1.4	819	Q16	1.09	1.228
FDD26	MidRange	3	819	QPSK	2.678	2.885
FDD26	MidRange	3	819	Q16	2.679	2.875
FDD26	MidRange	5	819	QPSK	4.485	4.829
FDD26	MidRange	5	819	Q16	4.49	4.803
FDD26	MidRange	10	819	QPSK	8.909	9.423
FDD26	MidRange	10	819	Q16	8.897	9.401



FDD02_MidRange_1.4_1880_QPSK



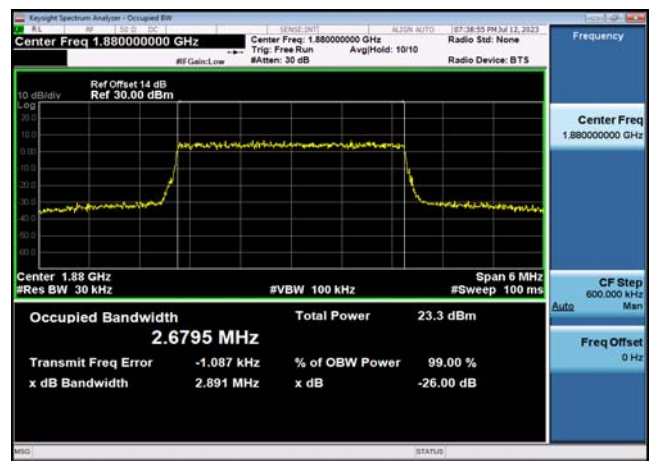
FDD02_MidRange_1.4_1880_Q16



FDD02_MidRange_3_1880_QPSK



FDD02_MidRange_3_1880_Q16



FDD02_MidRange_5_1880_QPSK



FDD02_MidRange_5_1880_Q16





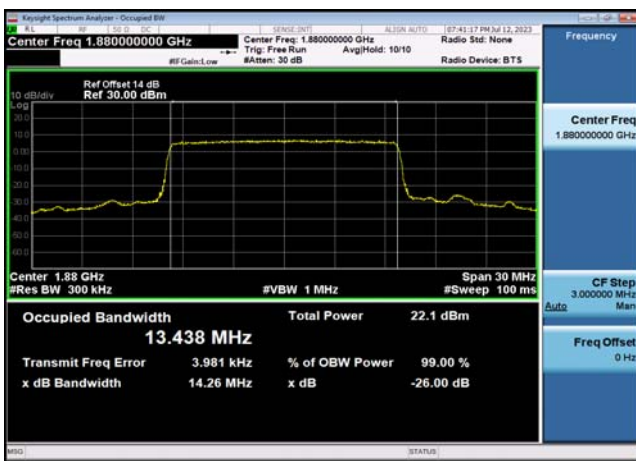
FDD02_MidRange_10_1880_QPSK



FDD02_MidRange_10_1880_Q16



FDD02_MidRange_15_1880_QPSK



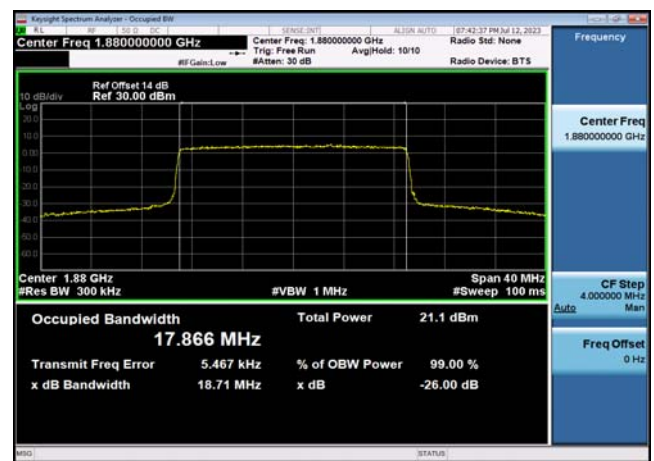
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FDD02_MidRange_20_1880_QPSK

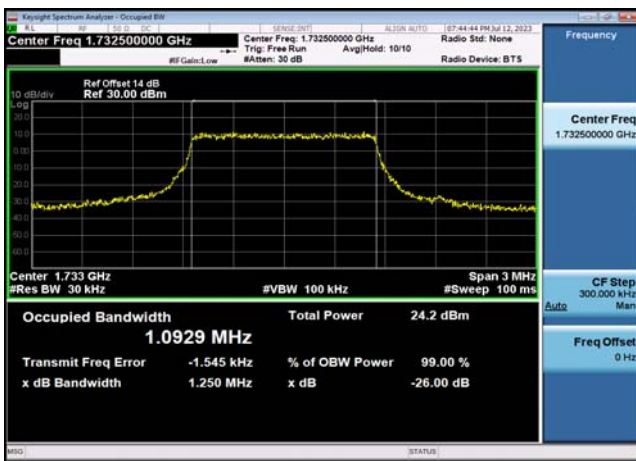


FDD02_MidRange_20_1880_Q16

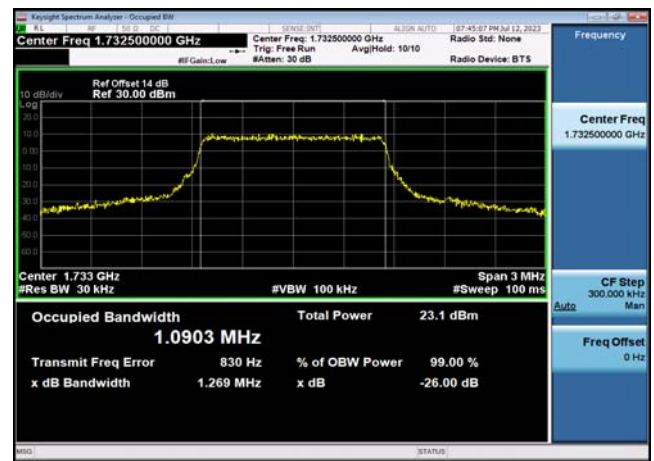




FDD04_MidRange_1.4_1732.5_QPSK



FDD04_MidRange_1.4_1732.5_Q16



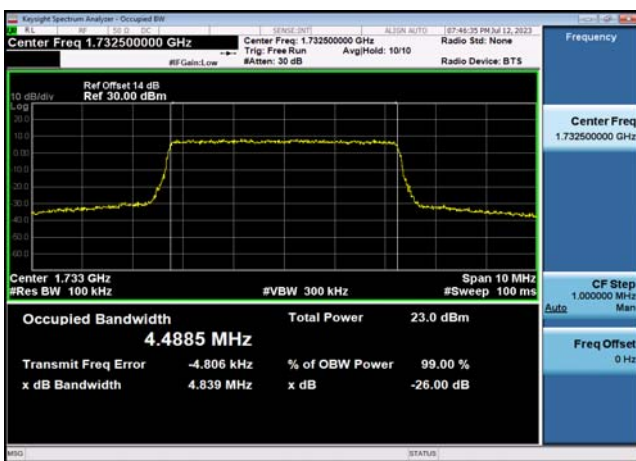
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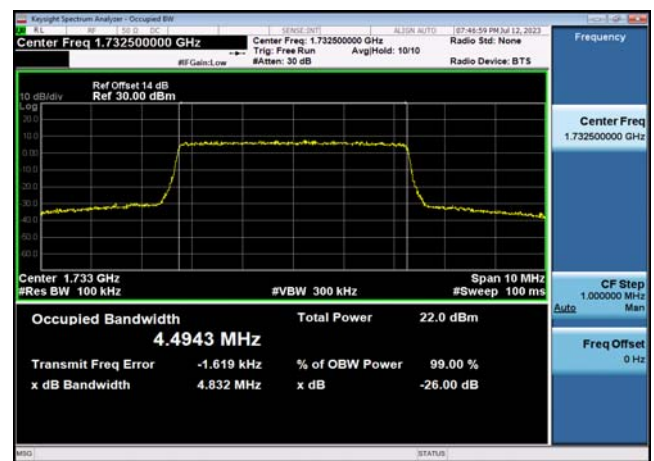
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FDD04_MidRange_5_1732.5_QPSK



FDD04_MidRange_5_1732.5_Q16



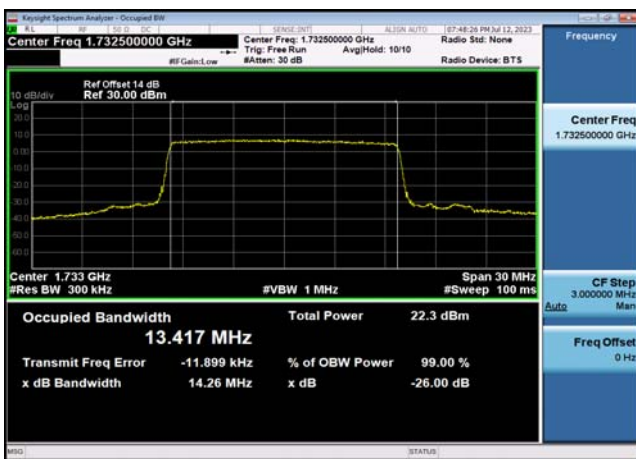
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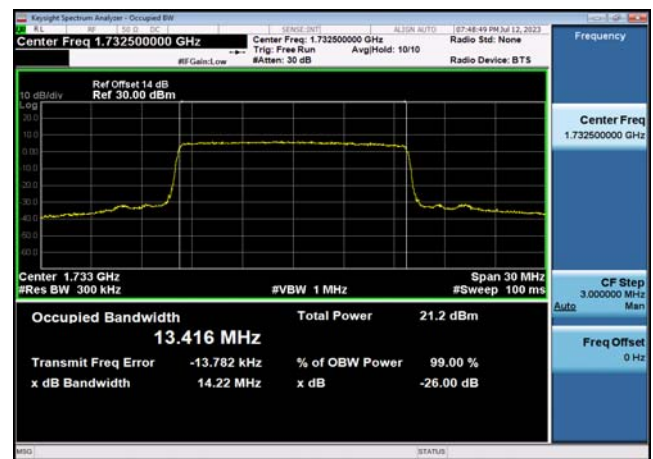
FDD04_MidRange_10_1732.5_Q16



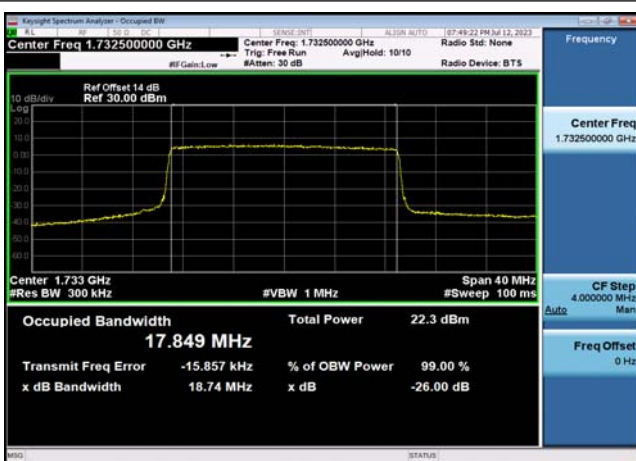
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FDD04_MidRange_15_1732.5_Q16

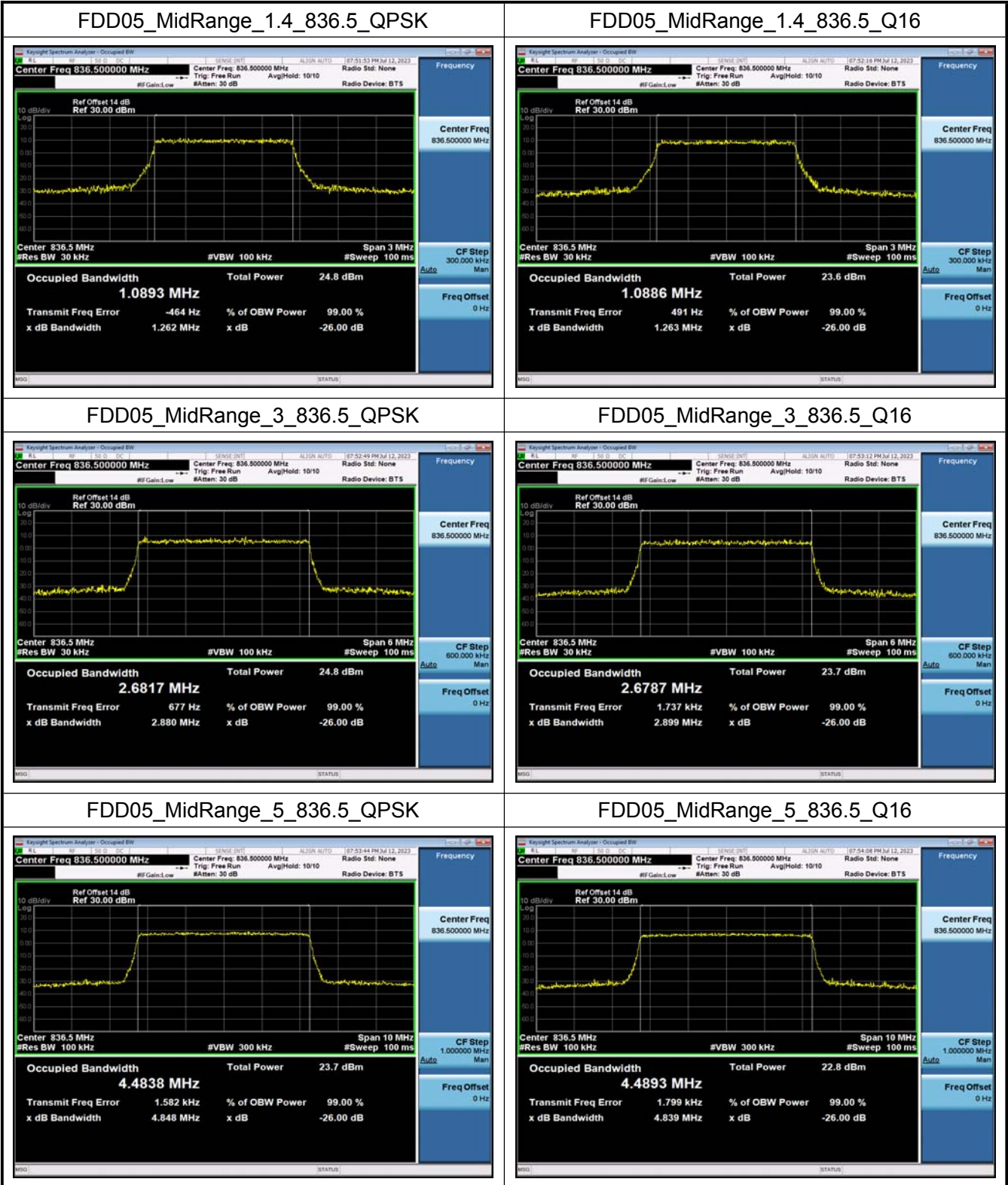


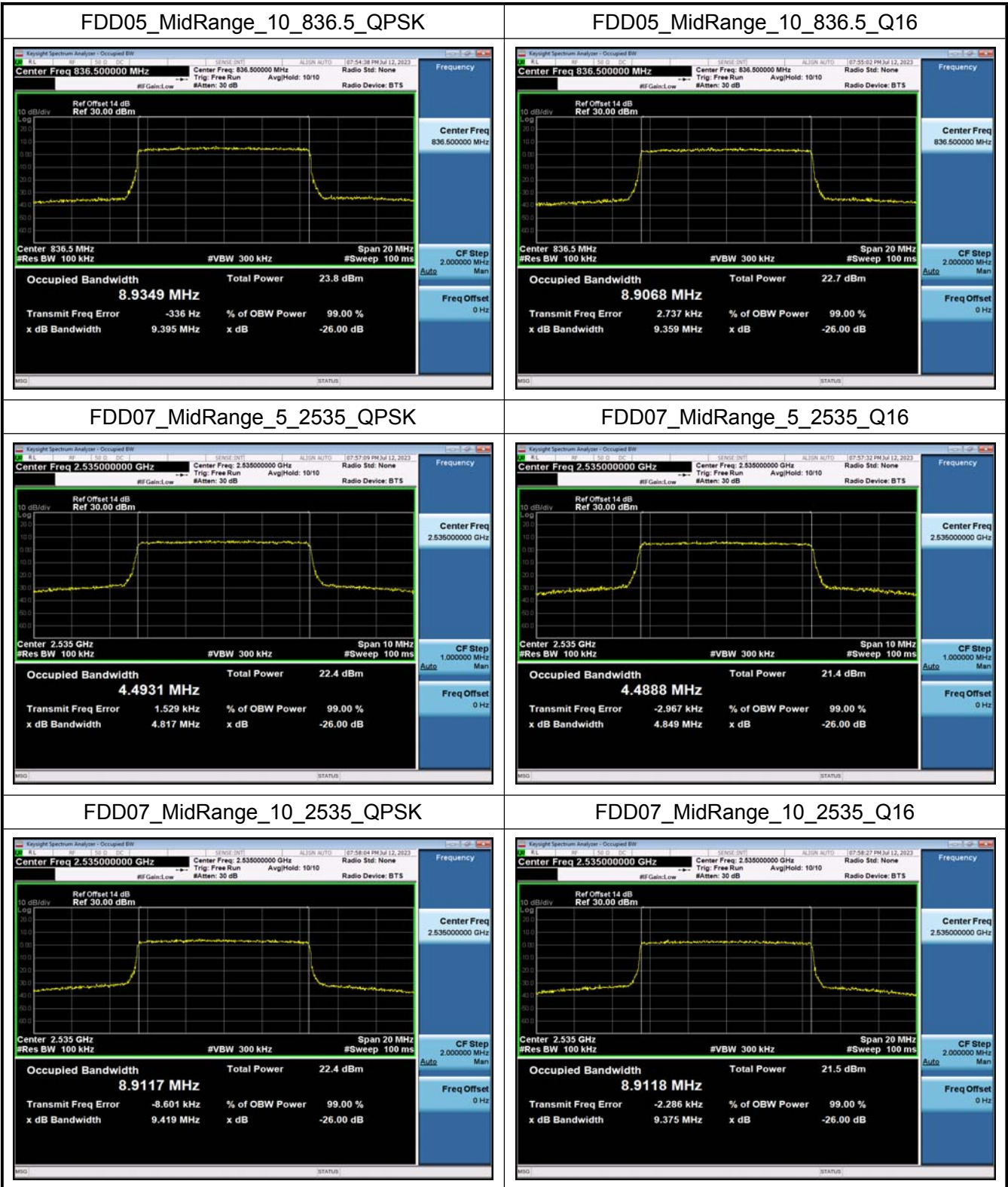
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FDD04_MidRange_20_1732.5_Q16

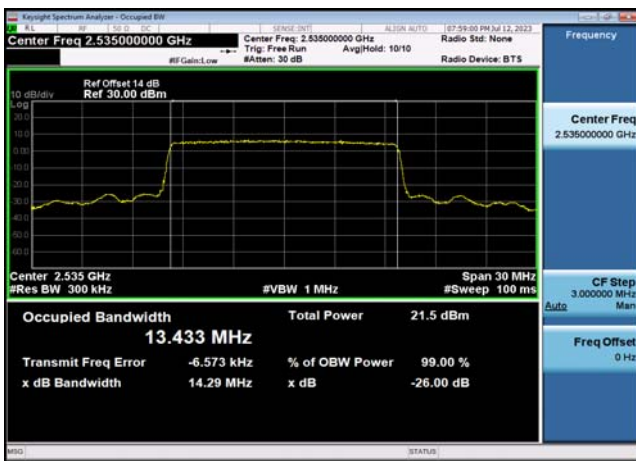








FDD07_MidRange_15_2535_QPSK



FDD07_MidRange_15_2535_Q16



FDD07_MidRange_20_2535_QPSK



FDD07_MidRange_20_2535_Q16



FDD12_MidRange_1.4_707.5_QPSK

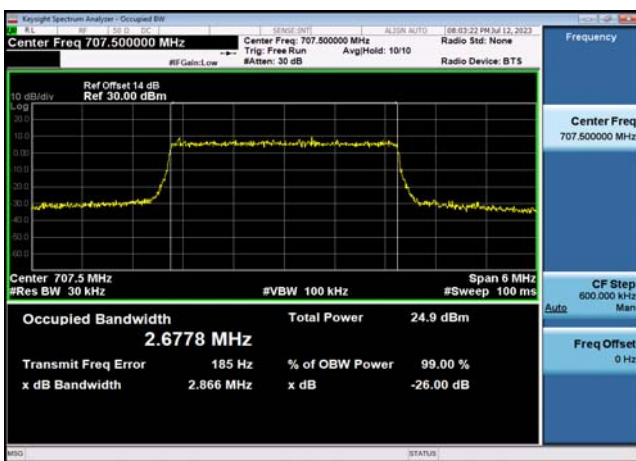


FDD12_MidRange_1.4_707.5_Q16





FDD12_MidRange_3_707.5_QPSK



FDD12_MidRange_3_707.5_Q16



FDD12_MidRange_5_707.5_QPSK



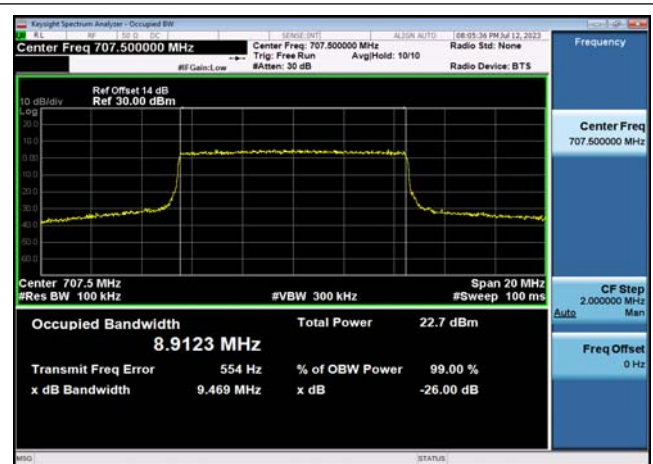
FDD12_MidRange_5_707.5_Q16



FDD12_MidRange_10_707.5_QPSK



FDD12_MidRange_10_707.5_Q16



FDD13_MidRange_5_782_QPSK



FDD13_MidRange_5_782_Q16



FDD13_MidRange_10_782_QPSK



FDD13_MidRange_10_782_Q16



FDD17_MidRange_5_710_QPSK



FDD17_MidRange_5_710_Q16



FDD17_MidRange_10_710_QPSK



FDD17_MidRange_10_710_Q16



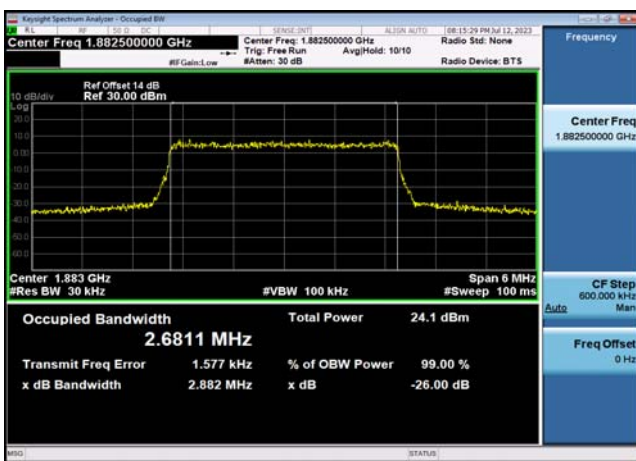
FDD25_MidRange_1.4_1882.5_QPSK



FDD25_MidRange_1.4_1882.5_Q16



FDD25_MidRange_3_1882.5_QPSK



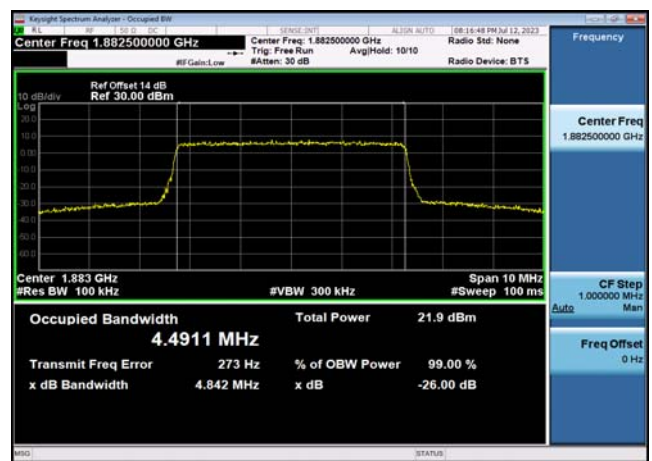
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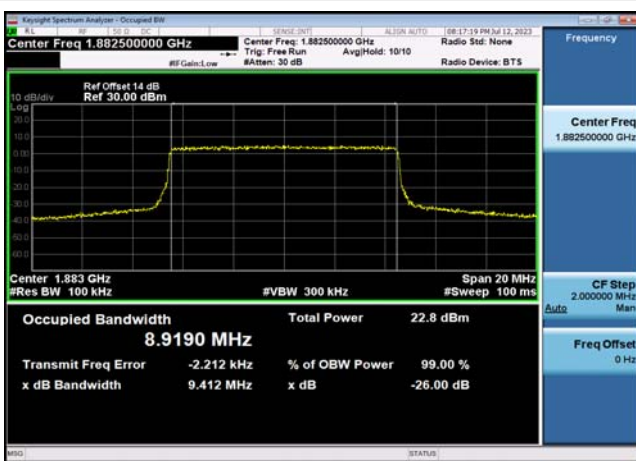
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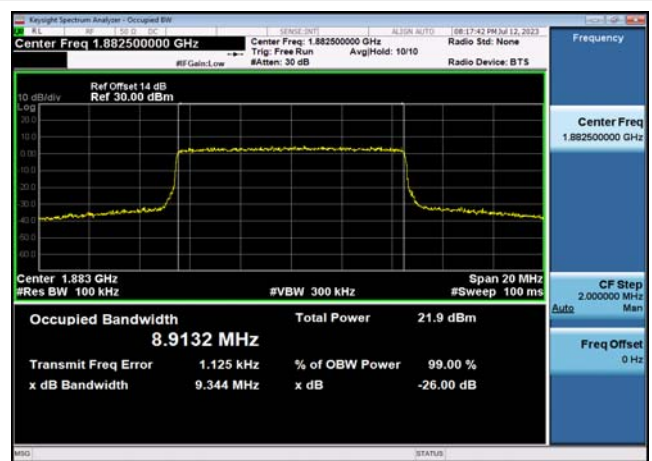
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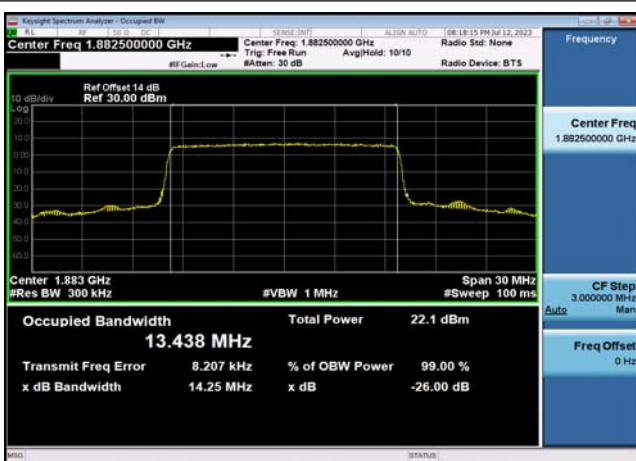
FDD25_MidRange_10_1882.5_QPSK



FDD25_MidRange_10_1882.5_Q16



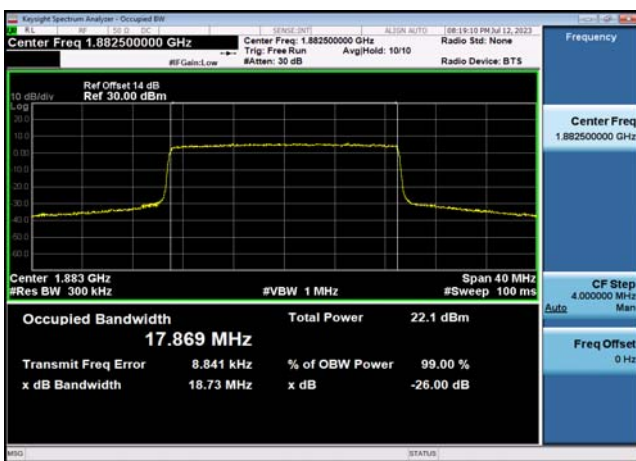
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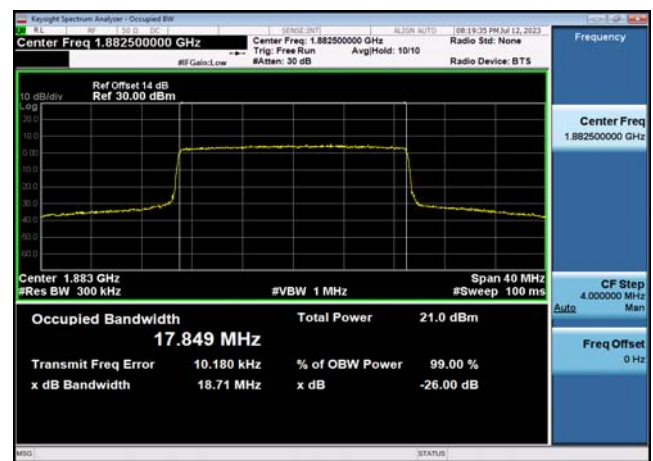
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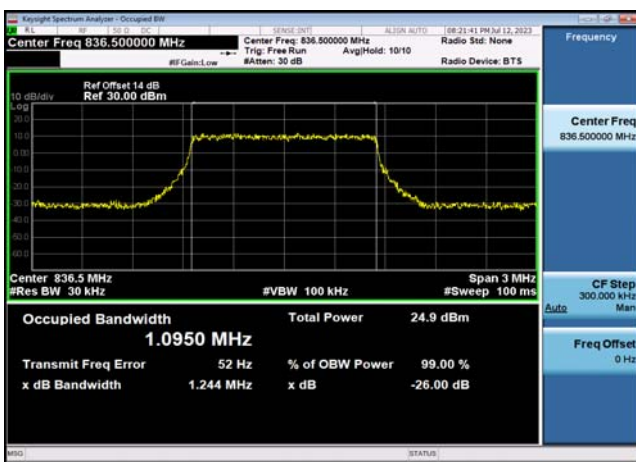
FDD25_MidRange_20_1882.5_QPSK



FDD25_MidRange_20_1882.5_Q16



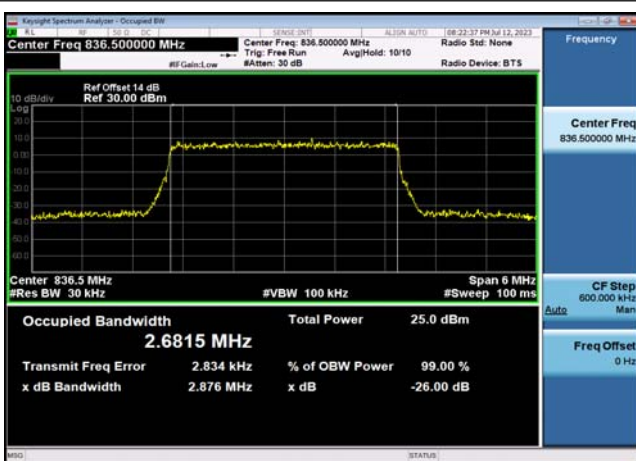
FDD26_(Part 22&RSS-132)
_MidRange_1.4_836.5_QPSK



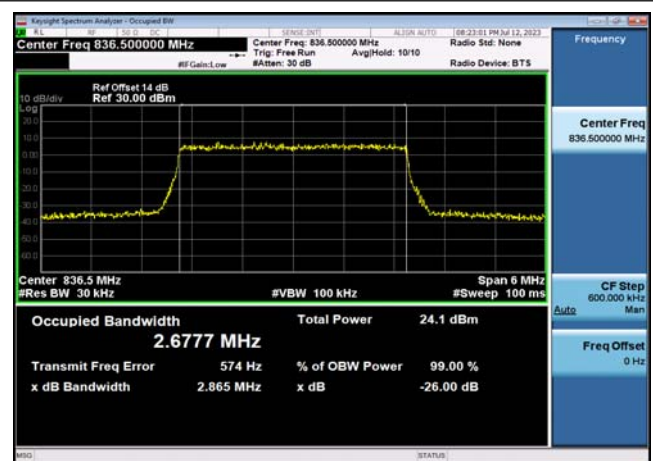
FDD26_(Part 22&RSS-132)
_MidRange_1.4_836.5_Q16



FDD26_(Part 22&RSS-132)
_MidRange_3_836.5_QPSK



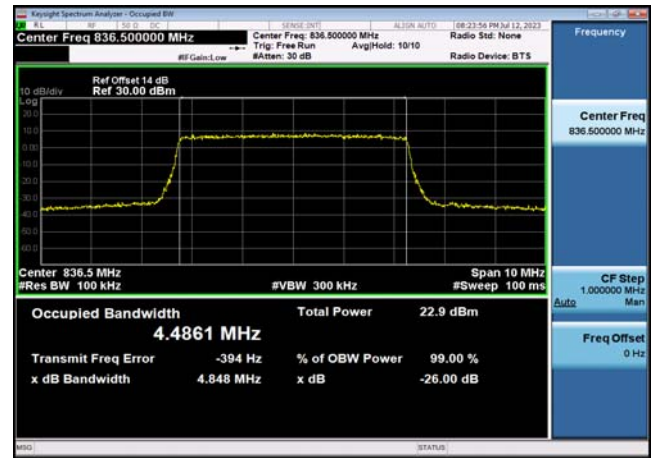
FDD26_(Part 22&RSS-132)
_MidRange_3_836.5_Q16



FDD26_(Part 22&RSS-132)
_MidRange_5_836.5_QPSK



FDD26_(Part 22&RSS-132)
_MidRange_5_836.5_Q16



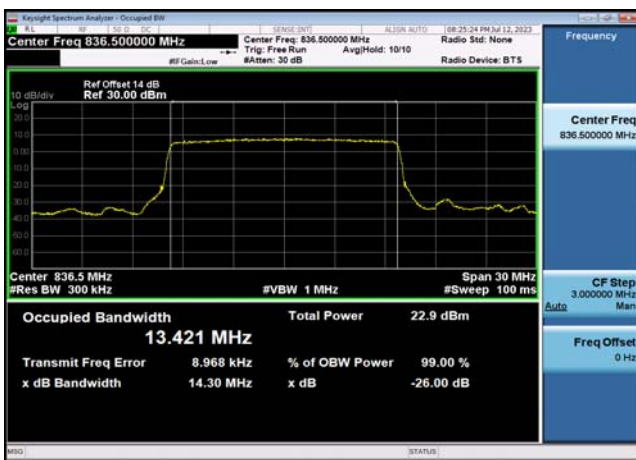
FDD26_(Part 22&RSS-132)
_MidRange_10_836.5_QPSK



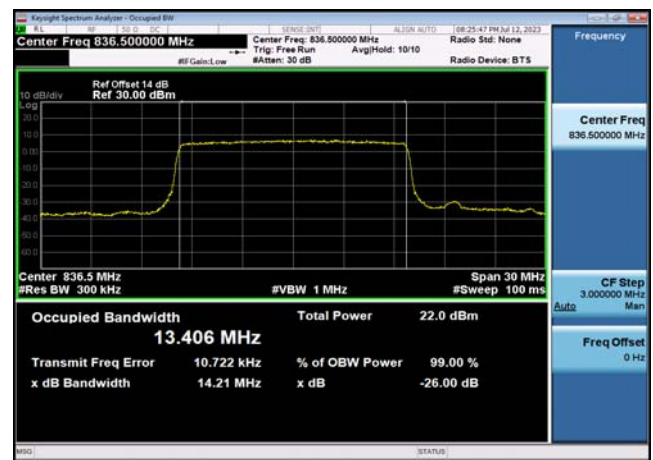
FDD26_(Part 22&RSS-132)
_MidRange_10_836.5_Q16



FDD26_(Part 22&RSS-132)
_MidRange_15_836.5_QPSK



FDD26_(Part 22&RSS-132)
_MidRange_15_836.5_Q16



FDD26_Part 90_MidRange_1.4_819_QPSK



FDD26_Part 90_MidRange_1.4_819_Q16



FDD26_Part 90_MidRange_3_819_QPSK



FDD26_Part 90_MidRange_3_819_Q16



FDD26_Part 90_MidRange_5_819_QPSK



FDD26_Part 90_MidRange_5_819_Q16

