

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Report No.: RFBEDW-WTW-P24070638

FCC ID: GKRRXLN3

Product: LGA Module

Brand: COMPAL

Model No.: RXL-N3

Received Date: 2024/7/29

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FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

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2024/11/22

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Prepared by : Pettie Chen / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P24070638	Original release.	2024/11/22

1 Certificate

Product: LGA Module

Brand: COMPAL

Test Model: RXL-N3

Sample Status: Engineering sample

Applicant: Compal Electronics, Inc.

Test Date: 2024/7/31 ~ 2024/9/11

Standard: 47 CFR FCC Part 22
47 CFR FCC Part 24
47 CFR FCC Part 27
47 CFR FCC Part 90
47 CFR FCC Part 2

Measurement procedure: ANSI/TIA/EIA-603-E 2016
ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03r01
KDB 971168 D02 Misc Rev Approv License Devices v02r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50(d) Part 27.50(h) Part 27.50(c) Part 27.50(b) Part 27.50(k) Part 90.635(b)	Effective Radiated Power and Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
Part 22.913 (d) Part 24.232 (d) Part 27.50(d) Part 27.50(k)(4)	Peak to Average Ratio	Pass	Meet the requirement of limit.
Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.
Part 2.1051 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(n) Part 90.691	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
Part 2.1053 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(n) Part 90.691	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -17.43 dB at 91.86 MHz
Part 2.1053 Part 22.917 Part 24.238 Part 27.53(h) Part 27.53(m) Part 27.53(g) Part 27.53(c)(f) Part 27.53(n) Part 90.691	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -16.71 dB at 1564.00 MHz
Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213	Frequency Stability	Pass	Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	-	1.371 dB
Peak to Average Ratio	-	0.920 dB
Bandwidth	-	960 Hz
Conducted Spurious Emissions	-	2.12 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB
Frequency Stability	-	0.176 ppm

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	LGA Module
Brand	COMPAL
Test Model	RXL-N3
Status of EUT	Engineering sample
Power Supply Rating	3.8Vdc
EUT Category	Mobile station

Note:

1. EUT Overview

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
LTE Band 5	1.4 MHz	824.7 ~ 848.3	QPSK	0.215	23.32	1M09G7D
			16QAM	0.175	22.43	1M09D7W
			64QAM	0.14	21.46	1M09D7W
			256QAM	0.07	18.45	1M09D7W
	3 MHz	825.5 ~ 847.5	QPSK	0.217	23.37	2M70G7D
			16QAM	0.175	22.43	2M71D7W
			64QAM	0.14	21.46	2M71D7W
			256QAM	0.07	18.47	2M71D7W
	5 MHz	826.5 ~ 846.5	QPSK	0.21	23.23	4M50G7D
			16QAM	0.174	22.4	4M50D7W
			64QAM	0.139	21.43	4M50D7W
			256QAM	0.07	18.45	4M50D7W
	10 MHz	829 ~ 844	QPSK	0.219	23.41	9M01G7D
			16QAM	0.178	22.51	9M01D7W
			64QAM	0.144	21.58	9M01D7W
			256QAM	0.072	18.57	9M02D7W
LTE Band 12	1.4 MHz	699.7 ~ 715.3	QPSK	0.166	22.21	1M09G7D
			16QAM	0.133	21.24	1M09D7W
			64QAM	0.108	20.33	1M09D7W
			256QAM	0.053	17.28	1M09D7W
	3 MHz	700.5 ~ 714.5	QPSK	0.167	22.22	2M70G7D
			16QAM	0.134	21.26	2M70D7W
			64QAM	0.108	20.33	2M71D7W
			256QAM	0.054	17.32	2M70D7W
	5 MHz	701.5 ~ 713.5	QPSK	0.167	22.23	4M50G7D
			16QAM	0.134	21.26	4M51D7W
			64QAM	0.107	20.31	4M50D7W
			256QAM	0.053	17.23	4M51D7W
	10 MHz	704 ~ 711	QPSK	0.173	22.37	8M99G7D
			16QAM	0.139	21.42	8M99D7W
			64QAM	0.112	20.49	8M99D7W
			256QAM	0.055	17.42	9M00D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
LTE Band 13	5 MHz	779.5 ~ 784.5	QPSK	0.167	22.22	4M50G7D
			16QAM	0.134	21.26	4M51D7W
			64QAM	0.108	20.34	4M50D7W
			256QAM	0.059	17.74	4M50D7W
	10 MHz	782	QPSK	0.173	22.38	8M92G7D
			16QAM	0.14	21.47	8M92D7W
			64QAM	0.112	20.49	8M93D7W
			256QAM	0.061	17.82	8M93D7W
LTE Band 26 (814 MHz ~ 824 MHz)	1.4 MHz	814.7 ~ 823.3	QPSK	0.226	23.54	1M09G7D
			16QAM	0.178	22.51	1M09D7W
			64QAM	0.143	21.56	1M09D7W
			256QAM	0.07	18.48	1M09D7W
	3 MHz	815.5 ~ 822.5	QPSK	0.22	23.42	2M70G7D
			16QAM	0.179	22.52	2M70D7W
			64QAM	0.143	21.55	2M70D7W
			256QAM	0.071	18.52	2M70D7W
	5 MHz	816.5 ~ 821.5	QPSK	0.222	23.46	4M50G7D
			16QAM	0.18	22.55	4M50D7W
			64QAM	0.146	21.65	4M50D7W
			256QAM	0.071	18.52	4M50D7W
	10 MHz	819	QPSK	0.222	23.47	9M02G7D
			16QAM	0.175	22.43	9M03D7W
			64QAM	0.143	21.55	9M02D7W
			256QAM	0.07	18.47	9M02D7W
LTE Band 26 (824 MHz ~ 849 MHz)	1.4 MHz	824.7 ~ 848.3	QPSK	0.225	23.53	1M09G7D
			16QAM	0.181	22.58	1M09D7W
			64QAM	0.146	21.64	1M09D7W
			256QAM	0.073	18.64	1M09D7W
	3 MHz	825.5 ~ 847.5	QPSK	0.223	23.49	2M70G7D
			16QAM	0.179	22.52	2M70D7W
			64QAM	0.145	21.6	2M70D7W
			256QAM	0.071	18.52	2M70D7W
	5 MHz	826.5 ~ 846.5	QPSK	0.224	23.51	4M50G7D
			16QAM	0.178	22.5	4M50D7W
			64QAM	0.144	21.58	4M50D7W
			256QAM	0.071	18.52	4M50D7W
	10 MHz	829 ~ 844	QPSK	0.226	23.55	9M01G7D
			16QAM	0.179	22.54	9M02D7W
			64QAM	0.146	21.63	9M02D7W
			256QAM	0.071	18.49	9M02D7W
	15 MHz	831.5 ~ 841.5	QPSK	0.229	23.59	13M5G7D
			16QAM	0.186	22.69	13M5D7W
			64QAM	0.149	21.73	13M5D7W
			256QAM	0.073	18.64	13M5D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. ERP (W)	Max. ERP (dBm)	Emission Designator
LTE Band 71	5 MHz	665.5 ~ 695.5	QPSK	0.189	22.76	4M50G7D
			16QAM	0.152	21.82	4M50D7W
			64QAM	0.122	20.87	4M50D7W
			256QAM	0.06	17.78	4M50D7W
	10 MHz	668 ~ 693	QPSK	0.186	22.7	8M98G7D
			16QAM	0.152	21.81	8M99D7W
			64QAM	0.122	20.85	8M99D7W
			256QAM	0.06	17.8	9M00D7W
	15 MHz	670.5 ~ 690.5	QPSK	0.188	22.74	13M5G7D
			16QAM	0.15	21.77	13M5D7W
			64QAM	0.122	20.86	13M5D7W
			256QAM	0.061	17.82	13M5D7W
	20 MHz	673 ~ 688	QPSK	0.195	22.9	18M0G7D
			16QAM	0.157	21.95	18M0D7W
			64QAM	0.126	21.01	18M0D7W
			256QAM	0.062	17.95	18M0D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
LTE Band 2	1.4 MHz	1850.7 ~ 1909.3	QPSK	0.469	26.71	1M09G7D
			16QAM	0.376	25.75	1M09D7W
			64QAM	0.302	24.8	1M09D7W
			256QAM	0.15	21.75	1M09D7W
	3 MHz	1851.5 ~ 1908.5	QPSK	0.47	26.72	2M71G7D
			16QAM	0.383	25.83	2M70D7W
			64QAM	0.309	24.9	2M70D7W
			256QAM	0.151	21.79	2M70D7W
	5 MHz	1852.5 ~ 1907.5	QPSK	0.468	26.7	4M50G7D
			16QAM	0.376	25.75	4M50D7W
			64QAM	0.303	24.81	4M49D7W
			256QAM	0.151	21.79	4M50D7W
	10 MHz	1855 ~ 1905	QPSK	0.468	26.7	8M98G7D
			16QAM	0.374	25.73	8M98D7W
			64QAM	0.303	24.82	8M98D7W
			256QAM	0.15	21.76	8M98D7W
	15 MHz	1857.5 ~ 1902.5	QPSK	0.463	26.66	13M5G7D
			16QAM	0.377	25.76	13M5D7W
			64QAM	0.303	24.82	13M5D7W
			256QAM	0.148	21.71	13M5D7W
	20 MHz	1860 ~ 1900	QPSK	0.485	26.86	18M0G7D
			16QAM	0.394	25.96	18M0D7W
			64QAM	0.319	25.04	18M0D7W
			256QAM	0.157	21.97	18M0D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
LTE Band 4	1.4 MHz	1710.7 ~ 1754.3	QPSK	0.57	27.56	1M09G7D
			16QAM	0.463	26.66	1M09D7W
			64QAM	0.368	25.66	1M09D7W
			256QAM	0.185	22.67	1M09D7W
	3 MHz	1711.5 ~ 1753.5	QPSK	0.57	27.56	2M70G7D
			16QAM	0.463	26.66	2M70D7W
			64QAM	0.372	25.7	2M70D7W
			256QAM	0.185	22.67	2M70D7W
	5 MHz	1712.5 ~ 1752.5	QPSK	0.565	27.52	4M50G7D
			16QAM	0.454	26.57	4M50D7W
			64QAM	0.368	25.66	4M50D7W
			256QAM	0.182	22.61	4M50D7W
	10 MHz	1715 ~ 1750	QPSK	0.561	27.49	8M98G7D
			16QAM	0.453	26.56	8M98D7W
			64QAM	0.367	25.65	8M98D7W
			256QAM	0.184	22.64	8M99D7W
	15 MHz	1717.5 ~ 1747.5	QPSK	0.564	27.51	13M5G7D
			16QAM	0.447	26.5	13M5D7W
			64QAM	0.362	25.59	13M5D7W
			256QAM	0.181	22.58	13M5D7W
	20 MHz	1720 ~ 1745	QPSK	0.581	27.64	18M0G7D
			16QAM	0.479	26.8	18M0D7W
			64QAM	0.384	25.84	18M0D7W
			256QAM	0.187	22.73	18M0D7W
LTE Band 25	1.4 MHz	1850.7 ~ 1914.3	QPSK	0.581	27.64	1M09G7D
			16QAM	0.468	26.7	1M09D7W
			64QAM	0.377	25.76	1M09D7W
			256QAM	0.187	22.71	1M09D7W
	3 MHz	1851.5 ~ 1913.5	QPSK	0.557	27.46	2M70G7D
			16QAM	0.448	26.51	2M70D7W
			64QAM	0.365	25.62	2M71D7W
			256QAM	0.177	22.48	2M70D7W
	5 MHz	1852.5 ~ 1912.5	QPSK	0.57	27.56	4M49G7D
			16QAM	0.458	26.61	4M50D7W
			64QAM	0.364	25.61	4M50D7W
			256QAM	0.182	22.6	4M50D7W
	10 MHz	1855 ~ 1910	QPSK	0.568	27.54	8M99G7D
			16QAM	0.463	26.66	8M98D7W
			64QAM	0.373	25.72	8M99D7W
			256QAM	0.18	22.55	8M99D7W
	15 MHz	1857.5 ~ 1907.5	QPSK	0.57	27.56	13M5G7D
			16QAM	0.454	26.57	13M5D7W
			64QAM	0.37	25.68	13M5D7W
			256QAM	0.18	22.55	13M5D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
LTE Band 25	20 MHz	1860 ~ 1905	QPSK	0.587	27.69	18M0G7D
			16QAM	0.465	26.67	18M0D7W
			64QAM	0.374	25.73	18M0D7W
			256QAM	0.187	22.73	18M0D7W
LTE Band 38	5 MHz	2572.5 ~ 2617.5	QPSK	0.447	26.5	4M50G7D
			16QAM	0.364	25.61	4M50D7W
			64QAM	0.289	24.61	4M50D7W
			256QAM	0.154	21.87	4M51D7W
	10 MHz	2575 ~ 2615	QPSK	0.439	26.42	8M99G7D
			16QAM	0.356	25.51	8M99D7W
			64QAM	0.288	24.59	8M99D7W
			256QAM	0.152	21.82	9M00D7W
	15 MHz	2577.5 ~ 2612.5	QPSK	0.438	26.41	13M5G7D
			16QAM	0.356	25.51	13M5D7W
			64QAM	0.284	24.54	13M5D7W
			256QAM	0.151	21.78	13M5D7W
	20 MHz	2580 ~ 2610	QPSK	0.453	26.56	18M0G7D
			16QAM	0.372	25.7	18M0D7W
			64QAM	0.297	24.73	18M0D7W
			256QAM	0.158	21.98	18M0D7W
LTE Band 41	5 MHz	2498.5 ~ 2687.5	QPSK	0.421	26.24	4M49G7D
			16QAM	0.343	25.35	4M49D7W
			64QAM	0.280	24.47	4M49D7W
			256QAM	0.146	21.65	4M51D7W
	10 MHz	2501 ~ 2685	QPSK	0.426	26.29	8M98G7D
			16QAM	0.350	25.44	8M98D7W
			64QAM	0.285	24.55	8M98D7W
			256QAM	0.146	21.65	9M01D7W
	15 MHz	2503.5 ~ 2682.5	QPSK	0.424	26.27	13M5G7D
			16QAM	0.351	25.45	13M5D7W
			64QAM	0.285	24.55	13M5D7W
			256QAM	0.142	21.52	13M5D7W
	20 MHz	2506 ~ 2680	QPSK	0.442	26.45	18M0G7D
			16QAM	0.359	25.55	18M0D7W
			64QAM	0.285	24.55	18M0D7W
			256QAM	0.146	21.65	18M0D7W
LTE Band 42 (3.45 GHz ~ 3.55 GHz)	5 MHz	3452.5 ~ 3547.5	QPSK	0.210	23.22	4M50G7D
			16QAM	0.169	22.28	4M50D7W
			64QAM	0.137	21.36	4M49D7W
			256QAM	0.069	18.39	4M50D7W
	10 MHz	3455 ~ 3545	QPSK	0.208	23.19	8M98G7D
			16QAM	0.168	22.25	8M99D7W
			64QAM	0.135	21.29	8M98D7W
			256QAM	0.070	18.46	8M99D7W

Mode	Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)	Emission Designator
LTE Band 42 (3.45 GHz ~ 3.55 GHz)	15 MHz	3457.5 ~ 3542.5	QPSK	0.210	23.23	13M5G7D
			16QAM	0.171	22.33	13M5D7W
			64QAM	0.137	21.38	13M5D7W
			256QAM	0.069	18.37	13M5D7W
	20 MHz	3460 ~ 3540	QPSK	0.216	23.35	18M0G7D
			16QAM	0.174	22.41	18M0D7W
			64QAM	0.141	21.48	17M9D7W
			256QAM	0.072	18.57	18M0D7W
LTE Band 66	1.4 MHz	1710.7 ~ 1779.3	QPSK	0.476	26.78	1M09G7D
			16QAM	0.384	25.84	1M09D7W
			64QAM	0.31	24.92	1M09D7W
			256QAM	0.155	21.91	1M09D7W
	3 MHz	1711.5 ~ 1778.5	QPSK	0.482	26.83	2M70G7D
			16QAM	0.389	25.9	2M70D7W
			64QAM	0.315	24.98	2M70D7W
			256QAM	0.152	21.83	2M70D7W
	5 MHz	1712.5 ~ 1777.5	QPSK	0.484	26.85	4M49G7D
			16QAM	0.391	25.92	4M49D7W
			64QAM	0.315	24.98	4M50D7W
			256QAM	0.155	21.91	4M49D7W
	10 MHz	1715 ~ 1775	QPSK	0.486	26.87	8M98G7D
			16QAM	0.393	25.94	8M98D7W
			64QAM	0.317	25.01	8M98D7W
			256QAM	0.158	21.99	8M99D7W
	15 MHz	1717.5 ~ 1772.5	QPSK	0.486	26.87	13M5G7D
			16QAM	0.394	25.95	13M5D7W
			64QAM	0.316	25	13M5D7W
			256QAM	0.158	21.98	13M5D7W
	20 MHz	1720 ~ 1770	QPSK	0.498	26.97	18M0G7D
			16QAM	0.4	26.02	18M0D7W
			64QAM	0.321	25.07	18M0D7W
			256QAM	0.16	22.05	18M0D7W

2. The EUT uses following accessories.

Item	Brand	Model
Ant	INPAQ	ANT0/1/2/3 GNSS

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

4. The both single carrier LTE transmission VS. inter-band LTE transmission modes and determined that single carrier LTE transmission is the worst-case.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

LTE Band					
Type	External				
Brand	INPAQ				
Band	Freq. Range (MHz)	Peak Gain without cable loss (dBi)			
		Ant. 0 (Main)	Ant. 1 (DRx)	Ant. 2 (DRx)	Ant. 3 (Aux)
LTE B2 (Ant 0)	1850 ~ 1910	3.2	3.2	3.2	3.2
LTE B4 (Ant 0)	1710 ~ 1755	3.31	3.31	3.31	3.31
LTE B5 (Ant 0)	824 ~ 849	1.25	1.25	1.25	1.25
LTE B12 (Ant 0)	698 ~ 716	0.78	0.78	0.78	0.78
LTE B13 (Ant 0)	777 ~ 787	0.91	0.91	0.91	0.91
LTE B25 (Ant 0)	1850 ~ 1915	3.2	3.2	3.2	3.2
LTE B26 (Ant 0)	814 ~ 849	1.25	1.25	1.25	1.25
LTE B38 (Ant 3)	2570 ~ 2620	2.75	2.75	2.75	2.75
LTE B41 (Ant 3)	2496 ~ 2690	2.75	2.75	2.75	2.75
LTE B42 (Ant 0)	3400 ~ 3600	-0.3	-0.3	-0.3	-0.3
LTE B66 (Ant 0)	1710 ~ 1780	3.31	3.31	3.31	3.31
LTE B71 (Ant 0)	663 ~ 698	0.53	0.53	0.53	0.53

Ant. No.	Cable Loss (dB)	Cable Length (mm)
Ant. 0	1.5	141.1
Ant. 1	1.3	120.3
Ant. 2	1	78.2
Ant. 3	1.3	121.2

*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	- The antenna of EUT can be used in the following ways: 0 degree/90 degrees. Pre-scan these ways and find the worst case as a representative test condition. - Pre-Scan has been conducted to determine the worst-case from all possible combinations of EUT configure mode (1TX or 2TX if available), channel, bandwidth, modulation and RB mode. See below table(s) for details.
Worst Case:	1. 0 degree/90 degrees Worst Condition: 90 degrees

3.3.1 LTE Band 2

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	18900(1880.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	18615(1851.50 MHz) 18900(1880.00 MHz) 19185(1908.50 MHz)	3 MHz	QPSK	1 RB Full RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK	1 RB Full RB
	18650(1855.00 MHz) 18900(1880.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK	1 RB Full RB
	18675(1857.50 MHz) 18900(1880.00 MHz) 19125(1902.50 MHz)	15 MHz	QPSK	1 RB Full RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	19175(1907.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	18607(1850.70 MHz) 18900(1880.00 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK	1 RB
	18625(1852.50 MHz) 18900(1880.00 MHz) 19175(1907.50 MHz)	5 MHz	QPSK	1 RB
	18700(1860.00 MHz) 18900(1880.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Frequency Stability (1850MHz to 1910MHz)	18607(1850.70 MHz) 19193(1909.30 MHz)	1.4 MHz	QPSK	Full RB
	18615(1851.50 MHz) 19185(1908.50 MHz)	3 MHz	QPSK	Full RB
	18625(1852.50 MHz) 19175(1907.50 MHz)	5 MHz	QPSK	Full RB
	18650(1855.00 MHz) 19150(1905.00 MHz)	10 MHz	QPSK	Full RB
	18675(1857.50 MHz) 19125(1902.50 MHz)	15 MHz	QPSK	Full RB
	18700(1860.00 MHz) 19100(1900.00 MHz)	20 MHz	QPSK	Full RB

3.3.2 LTE Band 4

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	20175(1732.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Bandwidth	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	19965(1711.50 MHz) 20175(1732.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK	1 RB Full RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20000(1715.00 MHz) 20175(1732.50 MHz) 20350(1750.00 MHz)	10 MHz	QPSK	1 RB Full RB
	20025(1717.50 MHz) 20175(1732.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK	1 RB Full RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	20175(1732.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	19957(1710.70 MHz) 20175(1732.50 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	1 RB
	19975(1712.50 MHz) 20175(1732.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	1 RB
	20050(1720.00 MHz) 20175(1732.50 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (1710MHz to 1755MHz)	19957(1710.70 MHz) 20393(1754.30 MHz)	1.4 MHz	QPSK	Full RB
	19965(1711.50 MHz) 20385(1753.50 MHz)	3 MHz	QPSK	Full RB
	19975(1712.50 MHz) 20375(1752.50 MHz)	5 MHz	QPSK	Full RB
	20000(1715.00 MHz) 20350(1750.00 MHz)	10 MHz	QPSK	Full RB
	20025(1717.50 MHz) 20325(1747.50 MHz)	15 MHz	QPSK	Full RB
	20050(1720.00 MHz) 20300(1745.00 MHz)	20 MHz	QPSK	Full RB

3.3.3 LTE Band 5

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	20525(836.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	20415(825.50 MHz) 20525(836.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK	1 RB Full RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK	1 RB Full RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	20407(824.70 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	20407(824.70 MHz) 20525(836.50 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK	1 RB
	20425(826.50 MHz) 20525(836.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK	1 RB
	20450(829.00 MHz) 20525(836.50 MHz) 20600(844.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability (824MHz to 849MHz)	20407(824.70 MHz) 20643(848.30 MHz)	1.4 MHz	QPSK	Full RB
	20415(825.50 MHz) 20635(847.50 MHz)	3 MHz	QPSK	Full RB
	20425(826.50 MHz) 20625(846.50 MHz)	5 MHz	QPSK	Full RB
	20450(829.00 MHz) 20600(844.00 MHz)	10 MHz	QPSK	Full RB

3.3.4 LTE Band 12

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	23095(707.50 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	23025(700.50 MHz) 23095(707.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23060(704.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23017(699.70 MHz) 23095(707.50 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK	1 RB
	23035(701.50 MHz) 23095(707.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK	1 RB
	23060(704.00 MHz) 23095(707.50 MHz) 23130(711.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability (698MHz to 716MHz)	23017(699.70 MHz) 23173(715.30 MHz)	1.4 MHz	QPSK	Full RB
	23025(700.50 MHz) 23165(714.50 MHz)	3 MHz	QPSK	Full RB
	23035(701.50 MHz) 23155(713.50 MHz)	5 MHz	QPSK	Full RB
	23060(704.00 MHz) 23130(711.00 MHz)	10 MHz	QPSK	Full RB

3.3.5 LTE Band 13

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	23230(782.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK	1 RB Full RB
	23230(782.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	23230(782.00 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	23205(779.50 MHz) 23230(782.00 MHz) 23255(784.50 MHz)	5 MHz	QPSK	1 RB
	23230(782.00 MHz)	10 MHz	QPSK	1 RB
Frequency Stability (777MHz to 787MHz)	23205(779.50 MHz) 23255(784.50 MHz)	5 MHz	QPSK	Full RB
	23230(782.00 MHz)	10 MHz	QPSK	Full RB

3.3.6 LTE Band 25

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	26365(1882.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26055(1851.50 MHz) 26365(1882.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26090(1855.00 MHz) 26365(1882.50 MHz) 26640(1910.00 MHz)	10 MHz	QPSK	1 RB Full RB
	26115(1857.50 MHz) 26365(1882.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK	1 RB Full RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26365(1882.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26047(1850.70 MHz) 26365(1882.50 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK	1 RB
	26065(1852.50 MHz) 26365(1882.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK	1 RB
	26140(1860.00 MHz) 26365(1882.50 MHz) 26590(1905.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (1850MHz to 1915MHz)	26047(1850.70 MHz) 26683(1914.30 MHz)	1.4 MHz	QPSK	Full RB
	26055(1851.50 MHz) 26675(1913.50 MHz)	3 MHz	QPSK	Full RB
	26065(1852.50 MHz) 26665(1912.50 MHz)	5 MHz	QPSK	Full RB
	26090(1855.00 MHz) 26640(1910.00 MHz)	10 MHz	QPSK	Full RB
	26115(1857.50 MHz) 26615(1907.50 MHz)	15 MHz	QPSK	Full RB
	26140(1860.00 MHz) 26590(1905.00 MHz)	20 MHz	QPSK	Full RB

3.3.7 LTE Band 26 (814 MHz ~ 824 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	-	-	-	-
Bandwidth	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26740(819.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26705(815.50 MHz) 26740(819.00 MHz) 26775(822.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26740(819.00 MHz)	10 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26715(816.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26697(814.70 MHz) 26740(819.00 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK	1 RB
	26715(816.50 MHz) 26740(819.00 MHz) 26765(821.50 MHz)	5 MHz	QPSK	1 RB
	26740(819.00 MHz)	10 MHz	QPSK	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Frequency Stability (814MHz to 824MHz)	26697(814.70 MHz) 26783(823.30 MHz)	1.4 MHz	QPSK	Full RB
	26705(815.50 MHz) 26775(822.50 MHz)	3 MHz	QPSK	Full RB
	26715(816.50 MHz) 26765(821.50 MHz)	5 MHz	QPSK	Full RB
	26740(819.00 MHz)	10 MHz	QPSK	Full RB

3.3.8 LTE Band 26 (824 MHz ~ 849 MHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	26915(836.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	26805(825.50 MHz) 26915(836.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK	1 RB Full RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK	1 RB Full RB
	26840(829.00 MHz) 26915(836.50 MHz) 26990(844.00 MHz)	10 MHz	QPSK	1 RB Full RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	26915(836.50 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	26797(824.70 MHz) 26915(836.50 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK	1 RB
	26815(826.50 MHz) 26915(836.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK	1 RB
	26865(831.50 MHz) 26915(836.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK	1 RB
Frequency Stability (824MHz to 849MHz)	26797(824.70 MHz) 27033(848.30 MHz)	1.4 MHz	QPSK	Full RB
	26805(825.50 MHz) 27025(847.50 MHz)	3 MHz	QPSK	Full RB
	26815(826.50 MHz) 27015(846.50 MHz)	5 MHz	QPSK	Full RB
	26840(829.00 MHz) 26990(844.00 MHz)	10 MHz	QPSK	Full RB
	26865(831.50 MHz) 26965(841.50 MHz)	15 MHz	QPSK	Full RB

3.3.9 LTE Band 38

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	38000(2595.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK	1 RB Full RB
	37800(2575.00 MHz) 38000(2595.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK	1 RB Full RB
	37825(2577.50 MHz) 38000(2595.00 MHz) 38175(2612.50 MHz)	15 MHz	QPSK	1 RB Full RB
	37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	37775(2572.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	37775(2572.50 MHz) 38000(2595.00 MHz) 38225(2617.50 MHz)	5 MHz	QPSK	1 RB
	37850(2580.00 MHz) 38000(2595.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (2570MHz to 2620MHz)	37775(2572.50 MHz) 38225(2617.50 MHz)	5 MHz	QPSK	Full RB
	37800(2575.00 MHz) 38200(2615.00 MHz)	10 MHz	QPSK	Full RB
	37825(2577.50 MHz) 38175(2612.50 MHz)	15 MHz	QPSK	Full RB
	37850(2580.00 MHz) 38150(2610.00 MHz)	20 MHz	QPSK	Full RB

3.3.10 LTE Band 41

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	40620(2593.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK	1 RB Full RB
	39700(2501.00 MHz) 40620(2593.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted Spurious Emissions	39725(2503.50 MHz) 40620(2593.00 MHz) 41515(2682.50 MHz)	15 MHz	QPSK	1 RB Full RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	41565(2687.50 MHz)	5 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	39675(2498.50 MHz) 40620(2593.00 MHz) 41565(2687.50 MHz)	5 MHz	QPSK	1 RB
	39750(2506.00 MHz) 40620(2593.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (2496MHz to 2690MHz)	39675(2498.50 MHz) 41565(2687.50 MHz)	5 MHz	QPSK	Full RB
	39700(2501.00 MHz) 41540(2685.00 MHz)	10 MHz	QPSK	Full RB
	39725(2503.50 MHz) 41515(2682.50 MHz)	15 MHz	QPSK	Full RB
	39750(2506.00 MHz) 41490(2680.00 MHz)	20 MHz	QPSK	Full RB

3.3.11 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	42590(3500.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Conducted Spurious Emissions	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42140(3455.00 MHz) 42590(3500.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42165(3457.50 MHz) 42590(3500.00 MHz) 43015(3542.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Radiated Spurious Emissions above 1GHz	42115(3452.50 MHz) 42590(3500.00 MHz) 43065(3547.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	42190(3460.00 MHz) 42590(3500.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Frequency Stability (3450MHz to 3550MHz)	42115(3452.50 MHz) 43065(3547.50 MHz)	5 MHz	QPSK	Full RB
	42140(3455.00 MHz) 43040(3545.00 MHz)	10 MHz	QPSK	Full RB
	42165(3457.50 MHz) 43015(3542.50 MHz)	15 MHz	QPSK	Full RB
	42190(3460.00 MHz) 42990(3540.00 MHz)	20 MHz	QPSK	Full RB

3.3.12 LTE Band 66

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	132322(1745.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Bandwidth	132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB Full RB
	131987(1711.50 MHz) 132322(1745.00 MHz) 132657(1778.50 MHz)	3 MHz	QPSK	1 RB Full RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK	1 RB Full RB
	132022(1715.00 MHz) 132322(1745.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK	1 RB Full RB
	132047(1717.50 MHz) 132322(1745.00 MHz) 132597(1772.50 MHz)	15 MHz	QPSK	1 RB Full RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK	1 RB Full RB
Radiated Spurious Emissions below 1GHz	132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	131979(1710.70 MHz) 132322(1745.00 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK	1 RB
	131997(1712.50 MHz) 132322(1745.00 MHz) 132647(1777.50 MHz)	5 MHz	QPSK	1 RB
	132072(1720.00 MHz) 132322(1745.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (1710MHz to 1780MHz)	131979(1710.70 MHz) 132665(1779.30 MHz)	1.4 MHz	QPSK	Full RB
	131987(1711.50 MHz) 132657(1778.50 MHz)	3 MHz	QPSK	Full RB
	131997(1712.50 MHz) 132647(1777.50 MHz)	5 MHz	QPSK	Full RB
	132022(1715.00 MHz) 132622(1775.00 MHz)	10 MHz	QPSK	Full RB
	132047(1717.50 MHz) 132597(1772.50 MHz)	15 MHz	QPSK	Full RB
	132072(1720.00 MHz) 132572(1770.00 MHz)	20 MHz	QPSK	Full RB

3.3.13 LTE Band 71

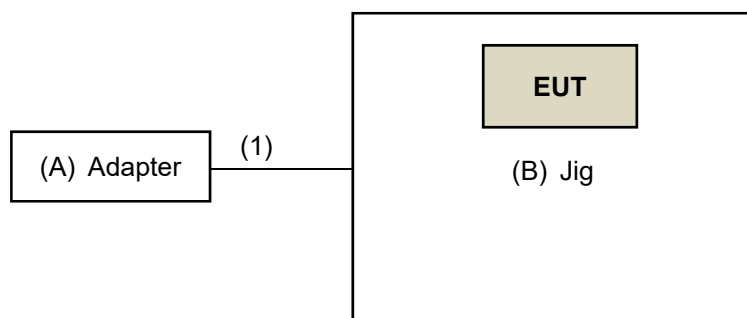
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Effective Radiated Power	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	133297(680.50 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Peak to Average Ratio	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Bandwidth	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Conducted Spurious Emissions	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK	1 RB Full RB
	133172(668.00 MHz) 133297(680.50 MHz) 133422(693.00 MHz)	10 MHz	QPSK	1 RB Full RB
	133197(670.50 MHz) 133297(680.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK	1 RB Full RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK	1 RB Full RB

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	133372(688.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	133147(665.50 MHz) 133297(680.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK	1 RB
	133222(673.00 MHz) 133297(680.50 MHz) 133372(688.00 MHz)	20 MHz	QPSK	1 RB
Frequency Stability (663MHz to 698MHz)	133147(665.50 MHz) 133447(695.50 MHz)	5 MHz	QPSK	Full RB
	133172(668.00 MHz) 133422(693.00 MHz)	10 MHz	QPSK	Full RB
	133197(670.50 MHz) 133397(690.50 MHz)	15 MHz	QPSK	Full RB
	133222(673.00 MHz) 133372(688.00 MHz)	20 MHz	QPSK	Full RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



Under Table

Remote Site



(C) Radio
Communication
Analyzer

3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	ChenzhouFrecom Electronics Co. Ltd	F24L5-120200SOPAU	NA	NA	Supplied by applicant
B	Jig	Compal	ZYN1	NA	NA	Supplied by applicant
C	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC Cable	1	1	No	0	Supplied by applicant

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2024/2/15	2025/2/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/8/12 ~ 2024/9/11

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2024/2/15	2025/2/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/7/31 ~ 2024/8/13

4.3 Peak to Average Ratio

Refer to section 4.2 to get the tested date and information of the instruments.

4.4 Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

4.6 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2023/10/13	2024/10/12
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
MXA Signal Analyzer Keysight	N9020B	MY60110513	2023/12/22	2024/12/21
Preamplifier EMCI	EMC330N	980782	2024/1/15	2025/1/14
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-3000	201235	2024/1/15	2025/1/14
	EMCCFD400-NM-NM-9000	201236(with PAD)	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2024/8/10

4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EMI Test Receiver R&S	ESR3	102782	2023/12/7	2024/12/6
Horn Antenna RFSPIN	DRH18-E	210103A18E	2023/11/12	2024/11/11
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2023/11/12	2024/11/11
MXA Signal Analyzer Keysight	N9020B	MY60110513	2023/12/22	2024/12/21
Preamplifier EMCI	EMC118A45SE	980808	2023/12/28	2024/12/27
	EMC184045SE	980788	2024/1/15	2025/1/14
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2024/1/15	2025/1/14
	EMC101G-KM-KM-3000	201258	2024/1/15	2025/1/14
	EMC101G-KM-KM-5000	201261	2024/1/15	2025/1/14
	EMC104-SM-SM-1000	210102	2024/1/15	2025/1/14
	EMC104-SM-SM-3000	201231	2024/1/15	2025/1/14
	EMC104-SM-SM-9000	201243	2024/1/15	2025/1/14
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2024/8/1 ~ 2024/8/7

4.8 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	8050A	4660081	2024/6/14	2025/6/13
PXA Signal Analyzer Keysight	N9030B	MY57140938	2024/3/20	2025/3/19
Radio Communication Analyzer Anritsu	MT8821C	6261806803	2024/2/15	2025/2/14
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/8/20

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For LTE Band 5, LTE Band 26 (824 MHz ~ 849 MHz):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

For LTE Band 2, LTE Band 25:

Mobile and portable stations are limited to 2 watts EIRP.

For LTE Band 26 (814 MHz ~ 824 MHz):

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw) ERP.

For LTE Band 12, LTE Band 71:

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

For LTE Band 13:

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

For LTE Band 4, LTE Band 66:

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

For LTE Band 38, LTE Band 41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 42 (3.45 GHz ~ 3.55 GHz):

Mobile devices are limited to 1Watt (30 dBm) EIRP.

5.2 Modulation Characteristics

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

5.3 Peak to Average Ratio

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.4 Bandwidth

According to FCC 47 CFR part 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.

5.5 Conducted Spurious Emissions

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824 MHz ~ 849 MHz):

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 emission limit equal to -13 dBm.

For LTE Band 26 (814 MHz ~ 824 MHz):

According to FCC 47 CFR part 90.691 shall be tested the emission masks. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.

For LTE Band 12, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 47 CFR part 27.53(c)(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.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 4, LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

For LTE Band 38, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4) regulations, any transmit power outside of the channel edge must be attenuated below the transmitting power (P) by a 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. 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

5.6 Radiated Spurious Emissions below 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824 MHz ~ 849 MHz):

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 emission limit equal to -13 dBm.

For LTE Band 26 (814 MHz ~ 824 MHz):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 12, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for 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. The limit of emissions is equal to -13 dBm.

For LTE Band 4, LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 38, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

5.7 Radiated Spurious Emissions above 1GHz

For LTE Band 2, LTE Band 5, LTE Band 25, LTE Band 26 (824 MHz ~ 849 MHz):

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 emission limit equal to -13 dBm.

For LTE Band 26 (814 MHz ~ 824 MHz):

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

For §90.691(a), RBW = 100 kHz for offset greater than 37.5 kHz from channel edge is allowed.

For LTE Band 12, LTE Band 71:

According to FCC 47 CFR part 27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. The limit of emissions is equal to -13 dBm.

For LTE Band 13:

According to FCC 47 CFR part 27.53(c)(2), for 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. The limit of emissions is equal to -13 dBm.

For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (EIRP). The limit of emissions is equal to -40 dBm.

For LTE Band 4, LTE Band 66:

According to FCC 47 CFR part 27.53(h), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB. The limit of emission is equal to -13 dBm.

For LTE Band 38, LTE Band 41:

According to FCC 47 CFR part 27.53(m)(4), on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25 dBm.

For LTE Band 42 (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

5.8 Frequency Stability

For LTE Band 5, LTE Band 26 (814 MHz ~ 824 MHz), LTE Band 26 (824 MHz ~ 849 MHz):

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

For LTE Band 2, LTE Band 4, LTE Band 12, LTE Band 13, LTE Band 25, LTE Band 38, LTE Band 41, LTE Band 42 (3.45 GHz ~ 3.55 GHz), LTE Band 66, LTE Band 71:

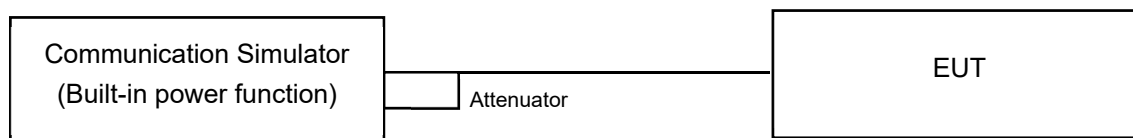
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The average (rms) power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

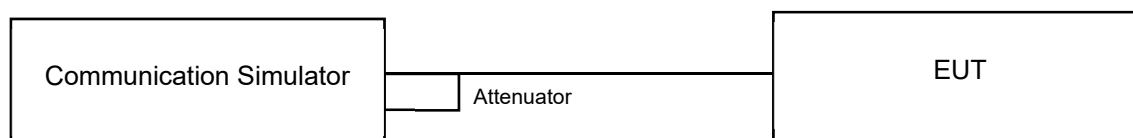
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

6.2 Modulation Characteristics

6.2.1 Test Setup

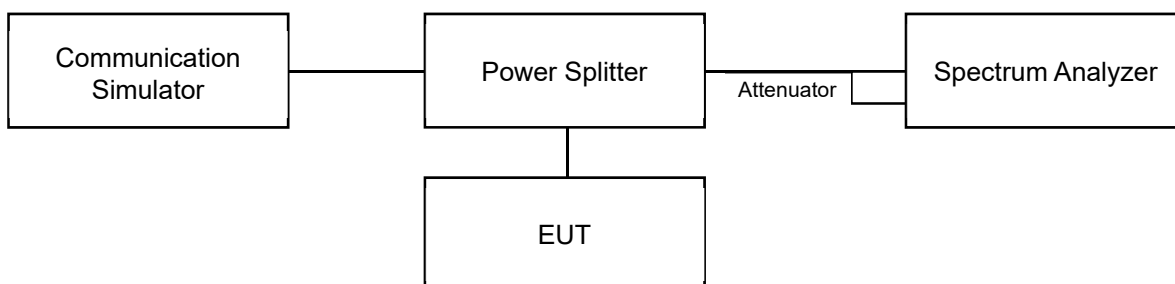


6.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

6.3 Peak to Average Ratio

6.3.1 Test Setup

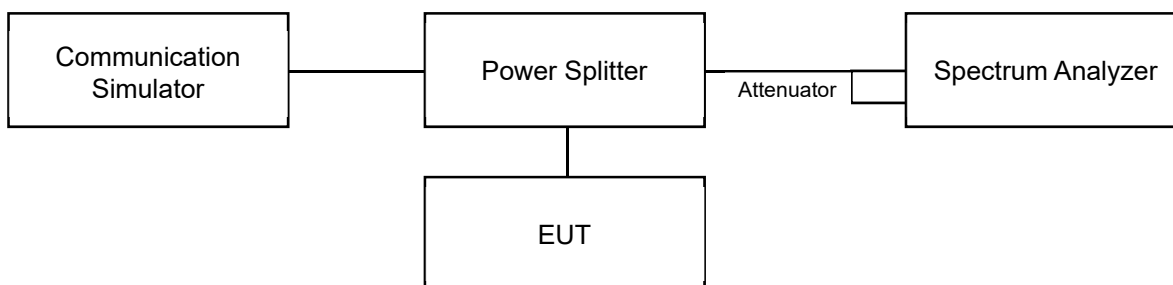


6.3.2 Test Procedure

- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

For the 26 dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

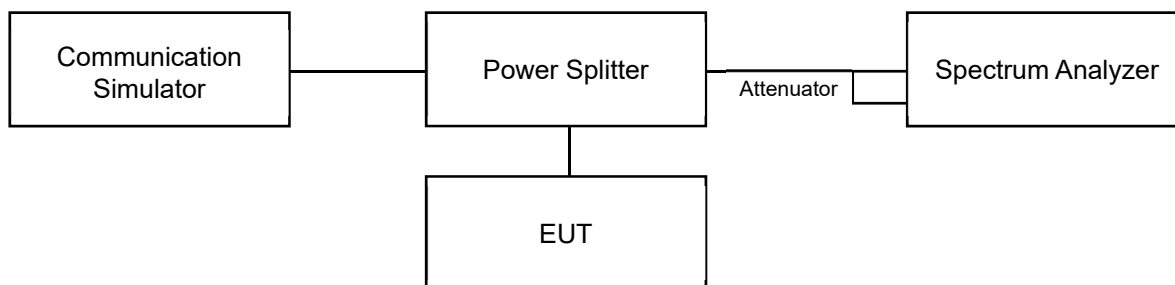
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- Determine the following reference values: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the reference value by either of the following:
 - g. 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - h. 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- i. Determine the “-X dB amplitude” as equal to (Reference Value - X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- j. If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- k. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB amplitude” determined in step f). If a marker is below this “-X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “-X dB amplitude” at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “-X dB amplitude.”
- l. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.5 Conducted Spurious Emissions

6.5.1 Test Setup



6.5.2 Test Procedure

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 3 channels: low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
- The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- The fundamental frequency below 1 GHz, the spectrum set RBW $\geq$ 100 kHz, VBW $\geq$ 3 x RBW, Detector = Average.
- Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
e.g. Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level line was increase by 10 dB accordingly.
- Record the maximum power value test plot.

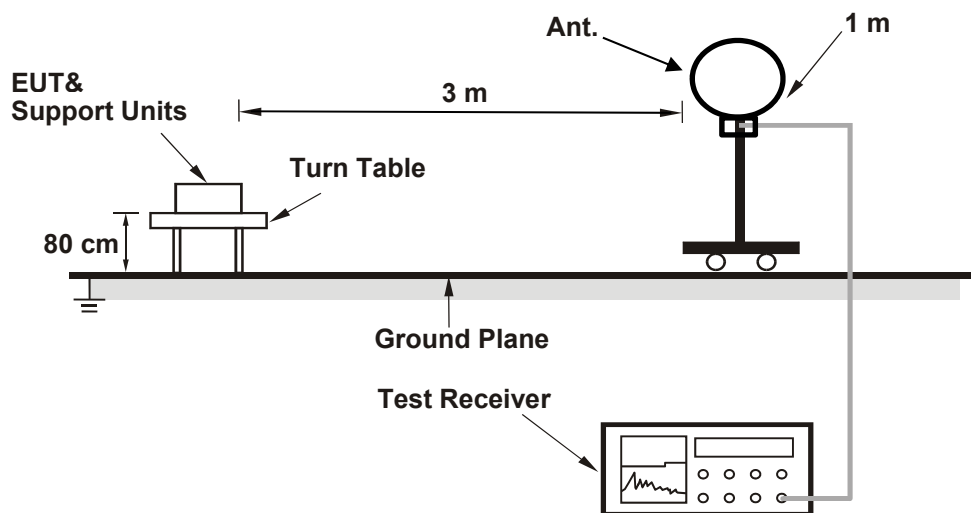
For Emission Mask:

- Measurement refer to ANSI C63.26 section 5.7.
- All measurements were done at 2 channels: low and high operational frequency range.
- Accoding to FCC 47 CFR part 90.691(a), the spectrum set RBW = 300 Hz for offset less than 37.5 kHz from channel edge and RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
- For the emissions measurement method, certain channel BW modes demonstrate compliance by integrating with the smaller RBW allowed by the rule.
e.g. Where Reference RBW = 1 MHz and a smaller RBW = 100 kHz is used, worst-case integrated BW power = [Max Measured Value (dBm) with RBW = 100 kHz] + $10 \cdot \log(1000/100)$. To compensate for this integration before comparison to the value, the adjusted reference level line was increase by 10 dB accordingly.
- Record the maximum power value test plot.

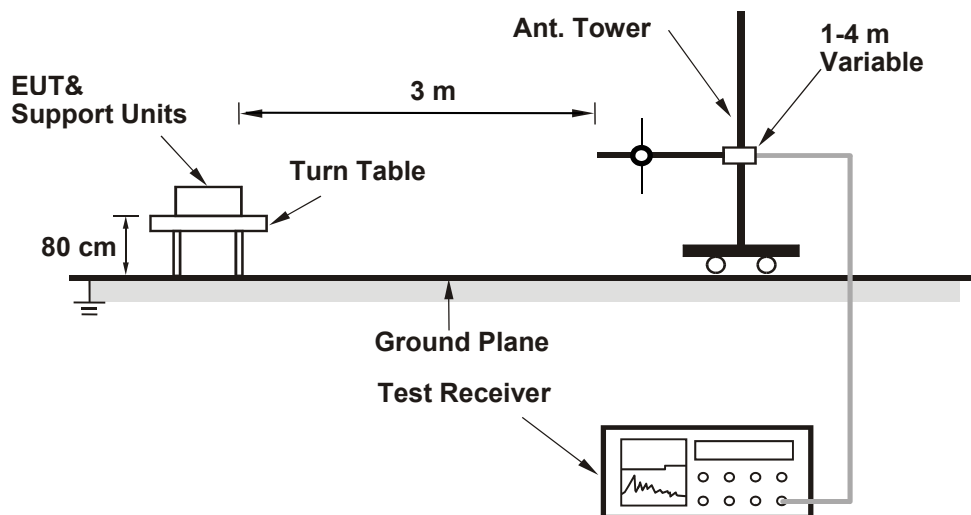
6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.6.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

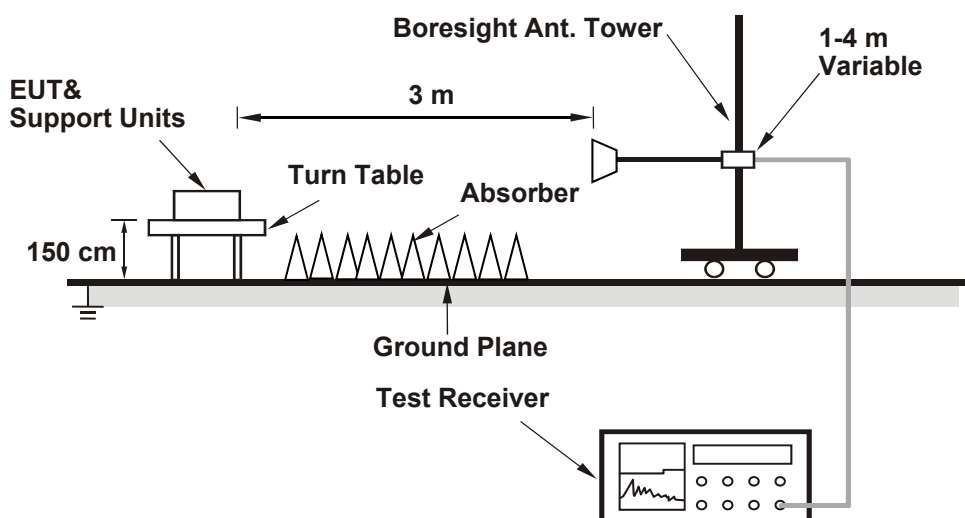
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

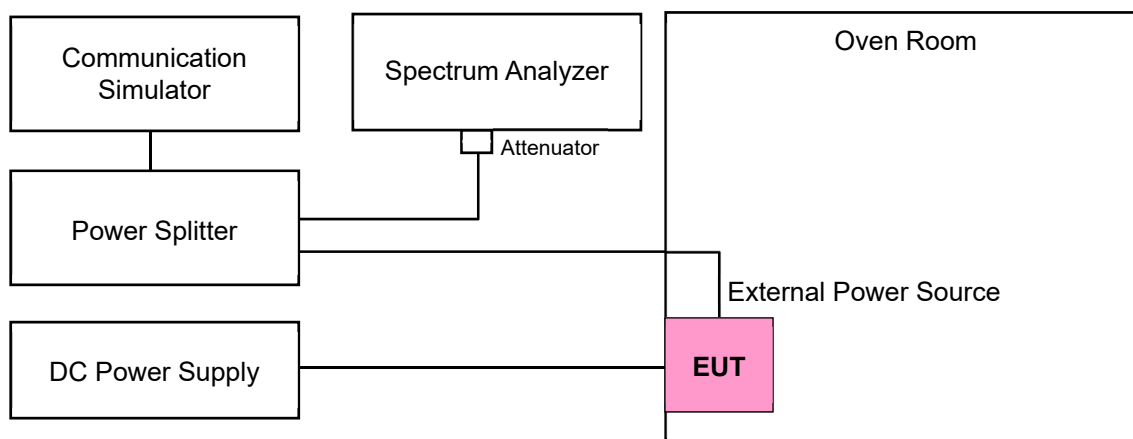
The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	3.8 Vdc	Environmental Conditions:	23°C, 67% RH	Tested By:	Noah Chang
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7.1.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18607	CH 18900	CH 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
QPSK	1	0	23.42	23.51	23.45
	1	2	23.25	23.33	23.28
	1	5	23.08	23.17	23.11
	3	0	23.21	23.26	23.20
	3	1	23.17	23.22	23.17
	3	3	23.14	23.20	23.12
	6	0	22.12	22.21	22.13
16QAM	1	0	22.44	22.55	22.49
	1	2	22.35	22.40	22.34
	1	5	22.14	22.27	22.16
	3	0	22.24	22.29	22.26
	3	1	22.27	22.24	22.24
	3	3	22.22	22.30	22.21
	6	0	21.17	21.31	21.16
64QAM	1	0	21.54	21.60	21.57
	1	2	21.42	21.49	21.36
	1	5	21.22	21.30	21.22
	3	0	21.26	21.35	21.35
	3	1	21.36	21.32	21.31
	3	3	21.31	21.32	21.25
	6	0	20.26	20.37	20.19
256QAM	1	0	18.48	18.55	18.55
	1	2	18.39	18.48	18.28
	1	5	18.13	18.20	18.15
	3	0	18.08	18.30	18.21
	3	1	18.21	18.29	18.29
	3	3	18.31	18.20	18.07
	6	0	18.08	18.21	18.11

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.12	23.51	25.32	26.71	33.01
16QAM	21.16	22.55	24.36	25.75	33.01
64QAM	20.19	21.6	23.39	24.8	33.01
256QAM	18.07	18.55	21.27	21.75	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18615	CH 18900	CH 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
QPSK	1	0	23.48	23.52	23.47
	1	7	23.18	23.25	23.16
	1	14	23.10	23.17	23.08
	8	0	22.25	22.35	22.26
	8	3	22.15	22.22	22.15
	8	7	22.12	22.17	22.11
	15	0	22.17	22.22	22.16
16QAM	1	0	22.50	22.63	22.54
	1	7	22.20	22.31	22.24
	1	14	22.12	22.27	22.16
	8	0	21.33	21.38	21.29
	8	3	21.25	21.30	21.22
	8	7	21.15	21.24	21.13
	15	0	21.24	21.25	21.25
64QAM	1	0	21.52	21.70	21.64
	1	7	21.27	21.38	21.34
	1	14	21.18	21.36	21.21
	8	0	20.40	20.40	20.38
	8	3	20.35	20.40	20.31
	8	7	20.23	20.34	20.15
	15	0	20.29	20.32	20.28
256QAM	1	0	18.48	18.59	18.56
	1	7	18.21	18.29	18.17
	1	14	18.00	18.22	18.17
	8	0	18.29	18.31	18.29
	8	3	18.15	18.29	18.29
	8	7	18.19	18.24	17.96
	15	0	18.21	18.31	18.23

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.11	23.52	25.31	26.72	33.01
16QAM	21.13	22.63	24.33	25.83	33.01
64QAM	20.15	21.7	23.35	24.9	33.01
256QAM	17.96	18.59	21.16	21.79	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18625	CH 18900	CH 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
QPSK	1	0	23.46	23.50	23.45
	1	12	23.23	23.31	23.27
	1	24	23.02	23.10	23.02
	12	0	22.30	22.39	22.32
	12	6	22.25	22.30	22.25
	12	13	22.09	22.17	22.08
	25	0	22.19	22.26	22.20
16QAM	1	0	22.54	22.55	22.51
	1	12	22.30	22.37	22.37
	1	24	22.11	22.13	22.09
	12	0	21.34	21.42	21.36
	12	6	21.34	21.33	21.35
	12	13	21.13	21.25	21.13
	25	0	21.25	21.31	21.28
64QAM	1	0	21.61	21.61	21.56
	1	12	21.38	21.45	21.44
	1	24	21.17	21.19	21.16
	12	0	20.41	20.45	20.46
	12	6	20.44	20.38	20.44
	12	13	20.15	20.29	20.22
	25	0	20.33	20.40	20.31
256QAM	1	0	18.49	18.59	18.44
	1	12	18.23	18.41	18.31
	1	24	18.14	18.12	18.07
	12	0	18.27	18.33	18.37
	12	6	18.37	18.22	18.33
	12	13	17.98	18.21	18.21
	25	0	18.25	18.32	18.27

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.08	23.5	25.28	26.7	33.01
16QAM	21.13	22.55	24.33	25.75	33.01
64QAM	20.15	21.61	23.35	24.81	33.01
256QAM	17.98	18.59	21.18	21.79	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18650	CH 18900	CH 19150
			1855 MHz	1880 MHz	1905 MHz
QPSK	1	0	23.45	23.50	23.44
	1	24	23.20	23.27	23.20
	1	49	23.06	23.15	23.07
	25	0	22.31	22.39	22.30
	25	12	22.21	22.27	22.20
	25	25	22.12	22.18	22.13
	50	0	22.14	22.21	22.16
16QAM	1	0	22.52	22.53	22.51
	1	24	22.28	22.33	22.28
	1	49	22.16	22.22	22.13
	25	0	21.38	21.42	21.35
	25	12	21.25	21.35	21.24
	25	25	21.18	21.27	21.23
	50	0	21.21	21.23	21.19
64QAM	1	0	21.62	21.60	21.53
	1	24	21.33	21.37	21.33
	1	49	21.22	21.31	21.17
	25	0	20.46	20.44	20.44
	25	12	20.27	20.37	20.30
	25	25	20.21	20.37	20.27
	50	0	20.28	20.31	20.24
256QAM	1	0	18.56	18.45	18.47
	1	24	18.29	18.32	18.17
	1	49	18.03	18.31	18.02
	25	0	18.43	18.26	18.43
	25	12	18.16	18.31	18.16
	25	25	18.20	18.18	18.21
	50	0	18.10	18.14	18.05

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.12	23.5	25.32	26.7	33.01
16QAM	21.18	22.53	24.38	25.73	33.01
64QAM	20.21	21.62	23.41	24.82	33.01
256QAM	18.02	18.56	21.22	21.76	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18675	CH 18900	CH 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
QPSK	1	0	23.41	23.46	23.39
	1	37	23.17	23.26	23.17
	1	74	23.09	23.14	23.05
	36	0	22.32	22.39	22.34
	36	19	22.24	22.30	22.21
	36	39	22.13	22.17	22.08
	75	0	22.19	22.24	22.15
16QAM	1	0	22.45	22.56	22.49
	1	37	22.20	22.34	22.26
	1	74	22.15	22.22	22.07
	36	0	21.37	21.42	21.38
	36	19	21.30	21.35	21.23
	36	39	21.22	21.21	21.11
	75	0	21.27	21.28	21.20
64QAM	1	0	21.48	21.62	21.57
	1	37	21.27	21.36	21.36
	1	74	21.22	21.25	21.14
	36	0	20.44	20.47	20.47
	36	19	20.34	20.40	20.33
	36	39	20.26	20.24	20.18
	75	0	20.37	20.31	20.24
256QAM	1	0	18.31	18.46	18.51
	1	37	18.10	18.31	18.34
	1	74	18.09	18.12	18.06
	36	0	18.36	18.45	18.34
	36	19	18.25	18.28	18.25
	36	39	18.14	18.16	18.17
	75	0	18.25	18.17	18.23

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.08	23.46	25.28	26.66	33.01
16QAM	21.11	22.56	24.31	25.76	33.01
64QAM	20.18	21.62	23.38	24.82	33.01
256QAM	18.06	18.51	21.26	21.71	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 2, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 18700	CH 18900	CH 19100
			1860 MHz	1880 MHz	1900 MHz
QPSK	1	0	23.60	23.66	23.58
	1	50	23.38	23.45	23.37
	1	99	23.23	23.28	23.21
	50	0	22.45	22.54	22.49
	50	25	22.35	22.41	22.34
	50	50	22.29	22.34	22.28
	100	0	22.29	22.36	22.29
16QAM	1	0	22.66	22.76	22.62
	1	50	22.45	22.51	22.40
	1	99	22.28	22.37	22.30
	50	0	21.54	21.59	21.55
	50	25	21.38	21.47	21.44
	50	50	21.33	21.42	21.32
	100	0	21.35	21.46	21.36
64QAM	1	0	21.69	21.84	21.69
	1	50	21.51	21.59	21.48
	1	99	21.32	21.42	21.40
	50	0	20.62	20.65	20.63
	50	25	20.44	20.51	20.47
	50	50	20.37	20.50	20.41
	100	0	20.40	20.51	20.38
256QAM	1	0	18.55	18.77	18.59
	1	50	18.44	18.53	18.45
	1	99	18.26	18.39	18.40
	50	0	18.45	18.49	18.58
	50	25	18.40	18.41	18.33
	50	50	18.20	18.48	18.28
	100	0	18.38	18.51	18.30

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.28	23.66	25.48	26.86	33.01
16QAM	21.32	22.76	24.52	25.96	33.01
64QAM	20.37	21.84	23.57	25.04	33.01
256QAM	18.2	18.77	21.4	21.97	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19957	CH 20175	CH 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
QPSK	1	0	24.08	24.15	24.13
	1	2	24.17	24.22	24.17
	1	5	23.99	24.03	23.93
	3	0	24.15	24.20	24.05
	3	1	24.18	24.21	24.13
	3	3	24.20	24.25	24.13
	6	0	23.16	23.22	23.07
16QAM	1	0	23.26	23.26	23.21
	1	2	23.26	23.29	23.35
	1	5	22.98	23.07	23.04
	3	0	23.11	23.20	23.11
	3	1	23.21	23.25	23.23
	3	3	23.19	23.26	23.17
	6	0	22.11	22.27	22.21
64QAM	1	0	22.24	22.31	22.23
	1	2	22.35	22.33	22.34
	1	5	22.02	22.15	22.09
	3	0	22.17	22.19	22.16
	3	1	22.28	22.35	22.29
	3	3	22.29	22.30	22.23
	6	0	21.20	21.28	21.31
256QAM	1	0	19.06	19.17	19.28
	1	2	19.34	19.36	19.18
	1	5	19.00	19.07	19.18
	3	0	19.08	19.05	19.21
	3	1	19.16	19.26	19.18
	3	3	19.30	19.34	19.12
	6	0	19.15	19.17	19.14

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.07	24.25	26.38	27.56	30.00
16QAM	22.11	23.35	25.42	26.66	30.00
64QAM	21.2	22.35	24.51	25.66	30.00
256QAM	19	19.36	22.31	22.67	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19965	CH 20175	CH 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
QPSK	1	0	23.82	23.94	23.78
	1	7	24.14	24.25	24.18
	1	14	23.81	23.87	23.82
	8	0	23.03	23.07	23.00
	8	3	23.09	23.12	23.11
	8	7	23.01	23.04	23.02
	15	0	23.21	23.27	23.20
16QAM	1	0	22.89	22.99	22.87
	1	7	23.22	23.35	23.29
	1	14	22.92	22.89	22.81
	8	0	22.02	22.14	22.03
	8	3	22.16	22.23	22.13
	8	7	22.05	22.14	22.07
	15	0	22.30	22.29	22.22
64QAM	1	0	21.93	22.04	21.98
	1	7	22.30	22.39	22.26
	1	14	21.95	22.00	21.88
	8	0	21.07	21.20	21.11
	8	3	21.27	21.26	21.19
	8	7	21.09	21.27	21.07
	15	0	21.29	21.37	21.26
256QAM	1	0	18.90	18.76	18.89
	1	7	19.32	19.36	19.23
	1	14	18.73	18.85	18.87
	8	0	18.91	19.03	18.87
	8	3	19.25	19.24	19.01
	8	7	19.15	19.04	19.08
	15	0	19.17	19.30	19.21

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23	24.25	26.31	27.56	30.00
16QAM	22.02	23.35	25.33	26.66	30.00
64QAM	21.07	22.39	24.38	25.7	30.00
256QAM	18.73	19.36	22.04	22.67	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 19975	CH 20175	CH 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
QPSK	1	0	23.78	23.89	23.77
	1	12	24.11	24.21	24.17
	1	24	23.78	23.84	23.84
	12	0	23.07	23.08	23.07
	12	6	23.07	23.09	23.08
	12	13	23.02	23.03	22.99
	25	0	23.11	23.22	23.16
16QAM	1	0	22.87	23.01	22.84
	1	12	23.18	23.26	23.17
	1	24	22.81	22.89	22.87
	12	0	22.20	22.21	22.04
	12	6	22.12	22.19	22.10
	12	13	21.97	22.12	22.03
	25	0	22.16	22.28	22.15
64QAM	1	0	21.96	22.09	21.85
	1	12	22.35	22.32	22.24
	1	24	21.84	21.96	21.95
	12	0	21.20	21.22	21.11
	12	6	21.19	21.18	21.12
	12	13	21.07	21.16	21.05
	25	0	21.27	21.35	21.19
256QAM	1	0	18.85	18.89	18.78
	1	12	19.30	19.26	19.20
	1	24	18.77	18.89	18.88
	12	0	19.05	19.11	19.00
	12	6	19.17	19.11	19.09
	12	13	18.92	18.98	19.02
	25	0	19.20	19.26	19.25

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.99	24.21	26.3	27.52	30.00
16QAM	21.97	23.26	25.28	26.57	30.00
64QAM	21.05	22.35	24.36	25.66	30.00
256QAM	18.77	19.3	22.08	22.61	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20000	CH 20175	CH 20350
			1715 MHz	1732.5 MHz	1750 MHz
QPSK	1	0	23.79	23.91	23.78
	1	24	24.15	24.18	24.14
	1	49	23.84	23.86	23.77
	25	0	23.02	23.03	23.04
	25	12	23.08	23.17	23.11
	25	25	23.08	23.07	23.00
	50	0	23.23	23.26	23.15
16QAM	1	0	22.86	22.96	22.84
	1	24	23.25	23.24	23.21
	1	49	22.90	22.93	22.85
	25	0	22.07	22.10	22.10
	25	12	22.12	22.25	22.13
	25	25	22.15	22.12	22.01
	50	0	22.22	22.36	22.29
64QAM	1	0	21.94	22.05	21.87
	1	24	22.34	22.26	22.25
	1	49	22.03	21.89	22.00
	25	0	21.18	21.09	21.18
	25	12	21.22	21.25	21.26
	25	25	21.20	21.15	21.02
	50	0	21.24	21.40	21.38
256QAM	1	0	18.87	19.00	18.87
	1	24	19.27	19.15	19.30
	1	49	18.92	18.83	18.76
	25	0	19.05	19.07	19.16
	25	12	19.15	19.12	19.19
	25	25	19.21	18.96	18.99
	50	0	19.23	19.27	19.33

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23	24.18	26.31	27.49	30.00
16QAM	22.01	23.25	25.32	26.56	30.00
64QAM	21.02	22.34	24.33	25.65	30.00
256QAM	18.76	19.33	22.07	22.64	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20025	CH 20175	CH 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
QPSK	1	0	23.86	23.93	23.81
	1	37	24.11	24.20	24.06
	1	74	23.78	23.88	23.74
	36	0	23.05	23.08	23.07
	36	19	23.08	23.15	23.08
	36	39	23.00	23.11	23.05
	75	0	23.05	23.23	23.16
16QAM	1	0	22.90	22.89	22.96
	1	37	23.12	23.19	23.17
	1	74	22.79	22.86	22.81
	36	0	22.13	22.22	22.08
	36	19	22.17	22.27	22.04
	36	39	22.01	22.05	22.07
	75	0	22.19	22.19	22.22
64QAM	1	0	21.95	22.05	21.97
	1	37	22.28	22.25	22.16
	1	74	21.80	21.96	21.93
	36	0	21.21	21.24	21.17
	36	19	21.23	21.22	21.18
	36	39	21.14	21.15	21.16
	75	0	21.24	21.25	21.32
256QAM	1	0	19.01	18.85	18.81
	1	37	19.20	19.12	19.19
	1	74	18.73	18.72	18.90
	36	0	19.16	19.17	19.07
	36	19	19.01	19.05	19.22
	36	39	18.94	19.04	18.95
	75	0	19.27	19.22	19.11

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23	24.2	26.31	27.51	30.00
16QAM	22.01	23.19	25.32	26.5	30.00
64QAM	21.14	22.28	24.45	25.59	30.00
256QAM	18.72	19.27	22.03	22.58	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 4, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20050	CH 20175	CH 20300
			1720 MHz	1732.5 MHz	1745 MHz
QPSK	1	0	23.96	23.98	23.95
	1	50	24.28	24.33	24.29
	1	99	23.95	23.99	23.91
	50	0	23.15	23.28	23.21
	50	25	23.19	23.23	23.23
	50	50	23.17	23.28	23.23
	100	0	23.32	23.35	23.27
16QAM	1	0	23.02	23.04	23.00
	1	50	23.29	23.49	23.44
	1	99	23.01	23.06	22.98
	50	0	22.22	22.33	22.22
	50	25	22.19	22.30	22.30
	50	50	22.13	22.29	22.27
	100	0	22.35	22.35	22.40
64QAM	1	0	22.08	22.18	22.09
	1	50	22.32	22.53	22.42
	1	99	22.09	22.11	22.05
	50	0	21.25	21.39	21.34
	50	25	21.27	21.46	21.38
	50	50	21.18	21.38	21.38
	100	0	21.42	21.50	21.43
256QAM	1	0	19.04	19.05	18.93
	1	50	19.34	19.33	19.40
	1	99	18.96	18.92	19.03
	50	0	19.13	19.19	19.21
	50	25	19.17	19.29	19.20
	50	50	19.13	19.31	19.21
	100	0	19.32	19.42	19.24

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.15	24.33	26.46	27.64	30.00
16QAM	22.13	23.49	25.44	26.8	30.00
64QAM	21.18	22.53	24.49	25.84	30.00
256QAM	18.92	19.42	22.23	22.73	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20407	CH 20525	CH 20643
			824.7 MHz	836.5 MHz	848.3 MHz
QPSK	1	0	23.89	24.00	23.92
	1	2	24.21	24.22	24.19
	1	5	23.91	24.03	23.93
	3	0	23.04	23.15	23.08
	3	1	23.05	23.10	23.09
	3	3	23.01	23.08	23.04
	6	0	23.12	23.26	23.17
16QAM	1	0	23.01	22.96	22.96
	1	2	23.18	23.33	23.21
	1	5	23.02	23.02	22.97
	3	0	22.03	22.26	22.09
	3	1	22.10	22.07	22.13
	3	3	22.07	22.15	22.12
	6	0	22.16	22.30	22.25
64QAM	1	0	22.06	22.12	21.99
	1	2	22.25	22.35	22.36
	1	5	22.10	22.01	21.96
	3	0	21.09	21.21	21.21
	3	1	21.21	21.21	21.17
	3	3	21.15	21.20	21.18
	6	0	21.27	21.36	21.29
256QAM	1	0	18.90	19.09	18.88
	1	2	19.15	19.35	19.12
	1	5	19.06	18.94	19.01
	3	0	19.06	19.16	19.10
	3	1	19.21	19.07	19.03
	3	3	19.07	19.04	19.08
	6	0	19.23	19.34	19.12

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.01	24.22	22.11	23.32	38.45
16QAM	22.03	23.33	21.13	22.43	38.45
64QAM	21.09	22.36	20.19	21.46	38.45
256QAM	18.88	19.35	17.98	18.45	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20415	CH 20525	CH 20635
			825.5 MHz	836.5 MHz	847.5 MHz
QPSK	1	0	23.91	23.95	23.89
	1	7	24.21	24.27	24.18
	1	14	24.00	24.05	23.96
	8	0	22.92	23.02	22.97
	8	3	23.00	23.05	22.99
	8	7	23.10	23.21	23.07
	15	0	23.08	23.19	23.16
16QAM	1	0	22.94	23.04	22.90
	1	7	23.25	23.33	23.13
	1	14	23.01	23.06	23.08
	8	0	22.04	22.11	21.98
	8	3	22.04	22.07	22.09
	8	7	22.17	22.31	22.19
	15	0	22.20	22.30	22.24
64QAM	1	0	21.93	22.04	22.09
	1	7	22.33	22.36	22.19
	1	14	22.02	22.08	22.16
	8	0	21.13	21.14	21.13
	8	3	21.12	21.18	21.11
	8	7	21.17	21.37	21.27
	15	0	21.17	21.35	21.27
256QAM	1	0	18.89	19.01	18.89
	1	7	19.19	19.37	19.07
	1	14	18.97	19.02	19.08
	8	0	19.01	19.13	19.01
	8	3	19.00	18.94	18.99
	8	7	19.09	19.31	19.24
	15	0	19.17	19.18	19.28

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.92	24.27	22.02	23.37	38.45
16QAM	21.98	23.33	21.08	22.43	38.45
64QAM	21.11	22.36	20.21	21.46	38.45
256QAM	18.89	19.37	17.99	18.47	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20425	CH 20525	CH 20625
			826.5 MHz	836.5 MHz	846.5 MHz
QPSK	1	0	23.93	24.01	23.97
	1	12	24.13	24.13	24.06
	1	24	23.95	23.95	23.89
	12	0	23.03	23.17	23.03
	12	6	23.03	23.12	22.99
	12	13	23.06	23.18	23.07
	25	0	23.21	23.24	23.13
16QAM	1	0	22.95	23.07	22.98
	1	12	23.16	23.30	23.12
	1	24	22.91	23.01	22.90
	12	0	22.09	22.19	22.11
	12	6	22.09	22.20	22.00
	12	13	22.09	22.23	22.07
	25	0	22.18	22.32	22.26
64QAM	1	0	21.94	22.05	22.02
	1	12	22.31	22.33	22.08
	1	24	22.04	22.12	21.94
	12	0	21.15	21.29	21.10
	12	6	21.25	21.27	21.06
	12	13	21.17	21.23	21.19
	25	0	21.28	21.35	21.32
256QAM	1	0	18.84	18.92	18.88
	1	12	19.20	19.18	19.09
	1	24	18.97	18.99	18.92
	12	0	19.00	19.24	18.95
	12	6	19.19	19.22	19.06
	12	13	19.21	19.16	19.04
	25	0	19.08	19.11	19.35

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.99	24.13	22.09	23.23	38.45
16QAM	22	23.3	21.1	22.4	38.45
64QAM	21.06	22.33	20.16	21.43	38.45
256QAM	18.84	19.35	17.94	18.45	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 20450	CH 20525	CH 20600
			829 MHz	836.5 MHz	844 MHz
QPSK	1	0	24.02	24.13	24.08
	1	24	24.24	24.31	24.28
	1	49	24.07	24.17	24.10
	25	0	23.21	23.20	23.16
	25	12	23.17	23.24	23.22
	25	25	23.20	23.32	23.21
	50	0	23.31	23.31	23.31
16QAM	1	0	23.08	23.20	23.19
	1	24	23.36	23.41	23.40
	1	49	23.12	23.18	23.22
	25	0	22.20	22.29	22.25
	25	12	22.31	22.37	22.19
	25	25	22.27	22.31	22.28
	50	0	22.26	22.40	22.36
64QAM	1	0	22.15	22.29	22.20
	1	24	22.40	22.47	22.48
	1	49	22.18	22.25	22.23
	25	0	21.27	21.33	21.29
	25	12	21.37	21.43	21.29
	25	25	21.38	21.39	21.39
	50	0	21.36	21.47	21.42
256QAM	1	0	19.11	19.12	19.12
	1	24	19.17	19.40	19.44
	1	49	19.16	19.13	19.20
	25	0	19.15	19.34	19.06
	25	12	19.34	19.42	19.24
	25	25	19.40	19.31	19.23
	50	0	19.18	19.47	19.33

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.16	24.31	22.26	23.41	38.45
16QAM	22.19	23.41	21.29	22.51	38.45
64QAM	21.27	22.48	20.37	21.58	38.45
256QAM	19.06	19.47	18.16	18.57	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23017	CH 23095	CH 23173
			699.7 MHz	707.5 MHz	715.3 MHz
QPSK	1	0	23.31	23.38	23.31
	1	2	23.51	23.58	23.52
	1	5	23.23	23.30	23.25
	3	0	22.54	22.59	22.51
	3	1	22.39	22.47	22.40
	3	3	22.24	22.31	22.22
	6	0	22.44	22.52	22.46
16QAM	1	0	22.39	22.43	22.40
	1	2	22.61	22.61	22.54
	1	5	22.25	22.40	22.28
	3	0	21.64	21.63	21.57
	3	1	21.49	21.55	21.49
	3	3	21.30	21.41	21.32
	6	0	21.52	21.59	21.56
64QAM	1	0	21.46	21.45	21.44
	1	2	21.69	21.70	21.61
	1	5	21.33	21.47	21.37
	3	0	20.71	20.65	20.62
	3	1	20.57	20.61	20.54
	3	3	20.38	20.50	20.41
	6	0	20.58	20.63	20.62
256QAM	1	0	18.33	18.30	18.42
	1	2	18.65	18.61	18.42
	1	5	18.20	18.32	18.19
	3	0	18.65	18.53	18.44
	3	1	18.52	18.60	18.37
	3	3	18.21	18.41	18.38
	6	0	18.52	18.58	18.54

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.22	23.58	20.85	22.21	34.77
16QAM	21.3	22.61	19.93	21.24	34.77
64QAM	20.38	21.7	19.01	20.33	34.77
256QAM	18.19	18.65	16.82	17.28	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23025	CH 23095	CH 23165
			700.5 MHz	707.5 MHz	714.5 MHz
QPSK	1	0	23.33	23.38	23.31
	1	7	23.50	23.59	23.54
	1	14	23.18	23.26	23.20
	8	0	22.48	22.56	22.48
	8	3	22.33	22.41	22.37
	8	7	22.26	22.33	22.24
	15	0	22.48	22.55	22.48
16QAM	1	0	22.41	22.47	22.39
	1	7	22.56	22.63	22.60
	1	14	22.19	22.32	22.25
	8	0	21.52	21.66	21.55
	8	3	21.39	21.50	21.41
	8	7	21.31	21.38	21.27
	15	0	21.57	21.64	21.58
64QAM	1	0	21.44	21.49	21.46
	1	7	21.59	21.70	21.68
	1	14	21.22	21.40	21.29
	8	0	20.58	20.72	20.60
	8	3	20.49	20.55	20.46
	8	7	20.41	20.42	20.33
	15	0	20.67	20.73	20.64
256QAM	1	0	18.31	18.38	18.35
	1	7	18.59	18.54	18.50
	1	14	18.20	18.31	18.17
	8	0	18.43	18.61	18.49
	8	3	18.49	18.50	18.40
	8	7	18.24	18.37	18.19
	15	0	18.51	18.69	18.56

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.24	23.59	20.87	22.22	34.77
16QAM	21.27	22.63	19.9	21.26	34.77
64QAM	20.33	21.7	18.96	20.33	34.77
256QAM	18.17	18.69	16.8	17.32	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23035	CH 23095	CH 23155
			701.5 MHz	707.5 MHz	713.5 MHz
QPSK	1	0	23.26	23.34	23.25
	1	12	23.52	23.60	23.54
	1	24	23.22	23.29	23.21
	12	0	22.46	22.55	22.47
	12	6	22.36	22.43	22.35
	12	13	22.20	22.26	22.20
	25	0	22.42	22.50	22.43
16QAM	1	0	22.31	22.35	22.30
	1	12	22.57	22.63	22.60
	1	24	22.29	22.33	22.29
	12	0	21.56	21.57	21.49
	12	6	21.38	21.50	21.44
	12	13	21.23	21.29	21.22
	25	0	21.45	21.58	21.47
64QAM	1	0	21.39	21.39	21.32
	1	12	21.67	21.68	21.68
	1	24	21.32	21.39	21.35
	12	0	20.61	20.60	20.53
	12	6	20.42	20.60	20.48
	12	13	20.30	20.36	20.30
	25	0	20.47	20.67	20.49
256QAM	1	0	18.24	18.24	18.31
	1	12	18.56	18.53	18.60
	1	24	18.28	18.24	18.34
	12	0	18.45	18.48	18.53
	12	6	18.24	18.43	18.33
	12	13	18.25	18.27	18.12
	25	0	18.45	18.49	18.34

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.2	23.6	20.83	22.23	34.77
16QAM	21.22	22.63	19.85	21.26	34.77
64QAM	20.3	21.68	18.93	20.31	34.77
256QAM	18.12	18.6	16.75	17.23	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23060	CH 23095	CH 23130
			704 MHz	707.5 MHz	711 MHz
QPSK	1	0	23.44	23.53	23.44
	1	24	23.68	23.74	23.67
	1	49	23.33	23.42	23.37
	25	0	22.64	22.70	22.61
	25	12	22.56	22.61	22.56
	25	25	22.37	22.45	22.37
	50	0	22.58	22.66	22.59
16QAM	1	0	22.46	22.55	22.47
	1	24	22.73	22.79	22.70
	1	49	22.39	22.44	22.44
	25	0	21.71	21.78	21.71
	25	12	21.62	21.66	21.60
	25	25	21.44	21.55	21.43
	50	0	21.62	21.71	21.63
64QAM	1	0	21.48	21.63	21.53
	1	24	21.79	21.86	21.76
	1	49	21.45	21.48	21.52
	25	0	20.78	20.86	20.77
	25	12	20.71	20.70	20.64
	25	25	20.52	20.59	20.49
	50	0	20.67	20.80	20.73
256QAM	1	0	18.39	18.59	18.40
	1	24	18.76	18.72	18.71
	1	49	18.45	18.42	18.40
	25	0	18.65	18.79	18.61
	25	12	18.52	18.56	18.64
	25	25	18.44	18.58	18.47
	50	0	18.66	18.70	18.61

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.37	23.74	21	22.37	34.77
16QAM	21.43	22.79	20.06	21.42	34.77
64QAM	20.49	21.86	19.12	20.49	34.77
256QAM	18.39	18.79	17.02	17.42	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.5 LTE Band 13

LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 23205	CH 23230	CH 23255
			779.5 MHz	782 MHz	784.5 MHz
QPSK	1	0	23.32	23.39	23.34
	1	12	23.38	23.46	23.39
	1	24	23.36	23.42	23.33
	12	0	22.76	22.82	22.77
	12	6	22.64	22.70	22.65
	12	13	22.39	22.46	22.39
	25	0	22.76	22.85	22.79
16QAM	1	0	22.35	22.46	22.36
	1	12	22.48	22.50	22.42
	1	24	22.40	22.48	22.40
	12	0	21.86	21.91	21.86
	12	6	21.70	21.74	21.72
	12	13	21.47	21.49	21.49
	25	0	21.81	21.94	21.87
64QAM	1	0	21.40	21.51	21.40
	1	12	21.57	21.58	21.46
	1	24	21.45	21.55	21.46
	12	0	20.94	20.96	20.89
	12	6	20.73	20.84	20.78
	12	13	20.56	20.51	20.51
	25	0	20.83	21.02	20.92
256QAM	1	0	18.35	18.39	18.37
	1	12	18.43	18.57	18.34
	1	24	18.27	18.43	18.28
	12	0	18.89	18.91	18.86
	12	6	18.61	18.65	18.73
	12	13	18.45	18.44	18.38
	25	0	18.64	18.98	18.76

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.39	23.46	21.15	22.22	34.77
16QAM	21.47	22.5	20.23	21.26	34.77
64QAM	20.51	21.58	19.27	20.34	34.77
256QAM	18.27	18.98	17.03	17.74	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 13, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 23230
			782 MHz
QPSK	1	0	23.54
	1	24	23.62
	1	49	23.6
	25	0	22.98
	25	12	22.81
	25	25	22.64
	50	0	23
16QAM	1	0	22.63
	1	24	22.71
	1	49	22.69
	25	0	22.06
	25	12	21.89
	25	25	21.72
	50	0	22.08
64QAM	1	0	21.67
	1	24	21.73
	1	49	21.73
	25	0	21.10
	25	12	20.92
	25	25	20.82
	50	0	21.18
256QAM	1	0	18.64
	1	24	18.68
	1	49	18.64
	25	0	19.06
	25	12	18.83
	25	25	18.62
	50	0	19.02

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.64	23.62	21.4	22.38	34.77
16QAM	21.72	22.71	20.48	21.47	34.77
64QAM	20.82	21.73	19.58	20.49	34.77
256QAM	18.62	19.06	17.38	17.82	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.6 LTE Band 25

LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26047	CH 26365	CH 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
QPSK	1	0	24.31	24.44	24.30
	1	2	24.22	24.21	24.15
	1	5	24.26	24.31	24.24
	3	0	24.20	24.29	24.13
	3	1	24.29	24.38	24.27
	3	3	24.04	24.12	24.14
	6	0	23.35	23.42	23.41
16QAM	1	0	23.47	23.50	23.45
	1	2	23.20	23.31	23.24
	1	5	23.26	23.36	23.32
	3	0	23.23	23.35	23.25
	3	1	23.34	23.43	23.42
	3	3	23.11	23.25	23.19
	6	0	22.37	22.53	22.41
64QAM	1	0	22.50	22.51	22.56
	1	2	22.24	22.36	22.22
	1	5	22.31	22.43	22.42
	3	0	22.31	22.34	22.28
	3	1	22.47	22.52	22.45
	3	3	22.21	22.38	22.25
	6	0	21.45	21.65	21.55
256QAM	1	0	19.51	19.51	19.49
	1	2	19.17	19.43	19.11
	1	5	19.09	19.20	19.34
	3	0	19.27	19.31	19.15
	3	1	19.35	19.41	19.34
	3	3	19.05	19.16	19.21
	6	0	19.37	19.42	19.40

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.35	24.44	26.55	27.64	33.01
16QAM	22.37	23.5	25.57	26.7	33.01
64QAM	21.45	22.56	24.65	25.76	33.01
256QAM	19.05	19.51	22.25	22.71	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26055	CH 26365	CH 26675
			1851.5 MHz	1882.5 MHz	1913.5 MHz
QPSK	1	0	24.09	24.16	24.02
	1	7	24.14	24.26	24.19
	1	14	24.09	24.15	24.12
	8	0	23.07	23.13	23.13
	8	3	23.14	23.17	23.11
	8	7	23.13	23.23	23.13
	15	0	23.00	23.08	22.95
16QAM	1	7	23.07	23.23	23.19
	1	7	23.24	23.31	23.19
	1	14	23.20	23.22	23.15
	8	0	22.12	22.22	22.15
	8	3	22.25	22.20	22.21
	8	7	22.15	22.18	22.19
	15	0	22.06	22.09	22.11
64QAM	1	0	22.15	22.34	22.20
	1	7	22.34	22.42	22.17
	1	14	22.31	22.27	22.26
	8	0	21.17	21.21	21.23
	8	3	21.34	21.28	21.26
	8	7	21.27	21.23	21.22
	15	0	21.12	21.26	21.13
256QAM	1	0	19.19	19.28	19.05
	1	7	19.25	19.26	19.17
	1	14	19.13	19.27	19.02
	8	0	19.15	19.16	19.02
	8	3	19.22	19.23	19.22
	8	7	19.00	19.09	19.15
	15	0	19.10	19.16	18.98

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.95	24.26	26.15	27.46	33.01
16QAM	22.06	23.31	25.26	26.51	33.01
64QAM	21.12	22.42	24.32	25.62	33.01
256QAM	18.98	19.28	22.18	22.48	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26065	CH 26365	CH 26665
			1852.5 MHz	1882.5 MHz	1912.5 MHz
QPSK	1	0	24.06	24.14	24.08
	1	12	24.29	24.36	24.31
	1	24	24.09	24.12	24.06
	12	0	23.13	23.14	23.10
	12	6	23.15	23.20	23.23
	12	13	23.09	23.21	23.14
	25	0	22.96	23.11	23.02
16QAM	1	0	23.16	23.20	23.21
	1	12	23.27	23.33	23.41
	1	24	23.17	23.16	23.19
	12	0	22.23	22.22	22.13
	12	6	22.18	22.29	22.27
	12	13	22.15	22.19	22.21
	25	0	22.05	22.14	22.02
64QAM	1	0	22.23	22.27	22.24
	1	12	22.36	22.41	22.38
	1	24	22.27	22.21	22.21
	12	0	21.26	21.24	21.26
	12	6	21.29	21.43	21.37
	12	13	21.10	21.27	21.24
	25	0	21.12	21.25	21.08
256QAM	1	0	19.22	19.20	19.14
	1	12	19.23	19.40	19.27
	1	24	19.20	19.14	19.22
	12	0	19.04	19.19	19.10
	12	6	19.25	19.34	19.20
	12	13	19.07	19.09	19.12
	25	0	19.17	19.09	18.89

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.96	24.36	26.16	27.56	33.01
16QAM	22.02	23.41	25.22	26.61	33.01
64QAM	21.08	22.41	24.28	25.61	33.01
256QAM	18.89	19.4	22.09	22.6	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26090	CH 26365	CH 26640
			1855 MHz	1882.5 MHz	1910 MHz
QPSK	1	0	24.07	24.18	24.08
	1	24	24.24	24.34	24.25
	1	49	24.16	24.18	24.10
	25	0	23.11	23.11	23.07
	25	12	23.16	23.24	23.18
	25	25	23.15	23.17	23.08
	50	0	23.06	23.12	23.09
16QAM	1	0	23.04	23.19	23.17
	1	24	23.40	23.46	23.24
	1	49	23.20	23.25	23.16
	25	0	22.15	22.10	22.15
	25	12	22.22	22.36	22.27
	25	25	22.21	22.19	22.13
	50	0	22.15	22.14	22.13
64QAM	1	0	22.06	22.26	22.16
	1	24	22.35	22.52	22.39
	1	49	22.27	22.36	22.32
	25	0	21.16	21.20	21.30
	25	12	21.28	21.40	21.27
	25	25	21.32	21.24	21.22
	50	0	21.20	21.19	21.15
256QAM	1	0	19.04	19.17	19.00
	1	24	19.26	19.35	19.24
	1	49	19.30	19.14	19.10
	25	0	18.95	19.14	19.25
	25	12	19.21	19.32	19.18
	25	25	19.22	19.20	19.18
	50	0	19.02	19.17	19.14

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.06	24.34	26.26	27.54	33.01
16QAM	22.1	23.46	25.3	26.66	33.01
64QAM	21.15	22.52	24.35	25.72	33.01
256QAM	18.95	19.35	22.15	22.55	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26115	CH 26365	CH 26615
			1857.5 MHz	1882.5 MHz	1907.5 MHz
QPSK	1	0	24.04	24.11	24.05
	1	37	24.27	24.36	24.23
	1	74	24.05	24.10	24.09
	36	0	23.13	23.21	23.17
	36	19	23.11	23.23	23.18
	36	39	23.14	23.22	23.12
	75	0	23.05	23.06	23.02
16QAM	1	0	23.14	23.22	23.15
	1	37	23.29	23.37	23.35
	1	74	23.15	23.21	23.17
	36	0	22.15	22.23	22.23
	36	19	22.27	22.29	22.20
	36	39	22.26	22.26	22.19
	75	0	22.09	22.08	22.10
64QAM	1	0	22.13	22.33	22.18
	1	37	22.41	22.48	22.29
	1	74	22.16	22.30	22.18
	36	0	21.20	21.25	21.28
	36	19	21.33	21.27	21.29
	36	39	21.37	21.32	21.27
	75	0	21.11	21.18	21.13
256QAM	1	0	18.98	19.21	19.02
	1	37	19.35	19.33	19.26
	1	74	19.04	19.19	19.06
	36	0	19.02	19.13	19.22
	36	19	19.31	19.20	19.12
	36	39	19.28	19.23	19.15
	75	0	18.97	19.03	18.99

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.02	24.36	26.22	27.56	33.01
16QAM	22.08	23.37	25.28	26.57	33.01
64QAM	21.11	22.48	24.31	25.68	33.01
256QAM	18.97	19.35	22.17	22.55	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 25, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26140	CH 26365	CH 26590
			1860 MHz	1882.5 MHz	1905 MHz
QPSK	1	0	24.24	24.25	24.23
	1	50	24.39	24.49	24.36
	1	99	24.26	24.31	24.22
	50	0	23.26	23.35	23.32
	50	25	23.35	23.39	23.28
	50	50	23.21	23.29	23.26
	100	0	23.15	23.21	23.14
16QAM	1	0	23.26	23.28	23.28
	1	50	23.41	23.47	23.39
	1	99	23.32	23.34	23.30
	50	0	22.27	22.38	22.29
	50	25	22.31	22.38	22.41
	50	50	22.29	22.37	22.32
	100	0	22.27	22.32	22.26
64QAM	1	0	22.40	22.38	22.29
	1	50	22.46	22.53	22.49
	1	99	22.37	22.35	22.33
	50	0	21.34	21.37	21.38
	50	25	21.36	21.49	21.52
	50	50	21.37	21.42	21.37
	100	0	21.29	21.34	21.32
256QAM	1	0	19.38	19.30	19.18
	1	50	19.43	19.53	19.52
	1	99	19.21	19.39	19.24
	50	0	19.19	19.34	19.21
	50	25	19.30	19.42	19.31
	50	50	19.24	19.28	19.30
	100	0	19.34	19.16	19.22

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	23.14	24.49	26.34	27.69	33.01
16QAM	22.26	23.47	25.46	26.67	33.01
64QAM	21.29	22.53	24.49	25.73	33.01
256QAM	19.16	19.53	22.36	22.73	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.7 LTE Band 26 (814 MHz ~ 824 MHz)

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26697	CH 26740	CH 26783
			814.7 MHz	819 MHz	823.3 MHz
QPSK	1	0	23.99	23.99	23.96
	1	2	24.36	24.44	24.33
	1	5	24.02	24.13	24.08
	3	0	23.08	23.20	23.09
	3	1	23.16	23.21	23.15
	3	3	22.95	22.95	22.92
	6	0	23.34	23.38	23.38
16QAM	1	0	23.14	23.17	23.06
	1	2	23.41	23.41	23.34
	1	5	23.14	23.17	23.08
	3	0	22.12	22.24	22.19
	3	1	22.16	22.23	22.22
	3	3	21.93	22.08	22.04
	6	0	22.39	22.44	22.33
64QAM	1	0	22.14	22.19	22.10
	1	2	22.36	22.46	22.37
	1	5	22.18	22.20	22.15
	3	0	21.18	21.31	21.18
	3	1	21.28	21.25	21.37
	3	3	21.01	21.10	21.12
	6	0	21.45	21.49	21.38
256QAM	1	0	19.13	19.14	19.16
	1	2	19.28	19.35	19.26
	1	5	19.12	19.21	19.14
	3	0	19.07	19.26	19.07
	3	1	19.29	19.16	19.23
	3	3	18.88	19.15	19.09
	6	0	19.38	19.33	19.24

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.92	24.44	22.02	23.54	50.00
16QAM	21.93	23.41	21.03	22.51	50.00
64QAM	21.01	22.46	20.11	21.56	50.00
256QAM	18.88	19.38	17.98	18.48	50.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26705	CH 26740	CH 26775
			815.5 MHz	819 MHz	822.5 MHz
QPSK	1	0	24.06	24.10	23.97
	1	7	24.24	24.32	24.30
	1	14	24.07	24.16	24.11
	8	0	23.07	23.12	23.04
	8	3	23.16	23.23	23.13
	8	7	22.88	23.05	22.94
	15	0	23.30	23.40	23.36
16QAM	1	0	23.05	23.14	23.02
	1	7	23.28	23.42	23.35
	1	14	23.18	23.22	23.14
	8	0	22.17	22.15	22.11
	8	3	22.20	22.30	22.16
	8	7	21.97	22.00	22.04
	15	0	22.33	22.41	22.39
64QAM	1	0	22.18	22.18	22.08
	1	7	22.35	22.45	22.40
	1	14	22.19	22.21	22.18
	8	0	21.26	21.27	21.23
	8	3	21.25	21.35	21.33
	8	7	21.03	21.10	21.07
	15	0	21.39	21.43	21.46
256QAM	1	0	19.04	19.10	19.04
	1	7	19.26	19.35	19.30
	1	14	19.16	19.20	19.06
	8	0	19.23	19.04	19.12
	8	3	19.12	19.33	19.21
	8	7	18.90	19.02	18.96
	15	0	19.42	19.34	19.24

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.88	24.32	21.98	23.42	50.00
16QAM	21.97	23.42	21.07	22.52	50.00
64QAM	21.03	22.45	20.13	21.55	50.00
256QAM	18.9	19.42	18	18.52	50.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26715	CH 26740	CH 26765
			816.5 MHz	819 MHz	821.5 MHz
QPSK	1	0	24.03	24.02	24.02
	1	12	24.29	24.36	24.30
	1	24	24.07	24.16	24.12
	12	0	23.05	23.13	23.08
	12	6	23.16	23.25	23.16
	12	13	23.04	23.01	22.96
	25	0	23.37	23.37	23.33
16QAM	1	0	23.08	23.10	23.01
	1	12	23.30	23.45	23.41
	1	24	23.25	23.24	23.21
	12	0	22.10	22.17	22.17
	12	6	22.19	22.37	22.25
	12	13	22.08	22.08	22.11
	25	0	22.37	22.48	22.38
64QAM	1	0	22.06	22.22	22.04
	1	12	22.37	22.55	22.44
	1	24	22.32	22.25	22.28
	12	0	21.18	21.19	21.21
	12	6	21.33	21.39	21.19
	12	13	21.17	21.21	21.10
	25	0	21.39	21.55	21.49
256QAM	1	0	18.99	19.19	18.97
	1	12	19.30	19.32	19.42
	1	24	19.19	19.12	19.09
	12	0	19.12	19.15	19.20
	12	6	19.22	19.20	19.16
	12	13	19.07	19.14	19.00
	25	0	19.38	19.37	19.26

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.96	24.36	22.06	23.46	50.00
16QAM	22.08	23.45	21.18	22.55	50.00
64QAM	21.1	22.55	20.2	21.65	50.00
256QAM	18.97	19.42	18.07	18.52	50.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)
			CH 26740
			819 MHz
QPSK	1	0	24.37
	1	24	24.23
	1	49	23.99
	25	0	23.23
	25	12	23.22
	25	25	23.25
	50	0	23.31
16QAM	1	0	23.33
	1	24	23.26
	1	49	22.98
	25	0	22.29
	25	12	22.24
	25	25	22.33
	50	0	22.26
64QAM	1	0	22.45
	1	24	22.34
	1	49	22.09
	25	0	21.45
	25	12	21.28
	25	25	21.32
	50	0	21.37
256QAM	1	0	19.29
	1	24	19.24
	1	49	19.00
	25	0	19.36
	25	12	19.24
	25	25	19.29
	50	0	19.37

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.22	24.37	22.32	23.47	50.00
16QAM	22.24	23.33	21.34	22.43	50.00
64QAM	21.28	22.45	20.38	21.55	50.00
256QAM	19	19.37	18.1	18.47	50.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.8 LTE Band 26 (824 MHz ~ 849 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26797	CH 26915	CH 27033
			824.7 MHz	836.5 MHz	848.3 MHz
QPSK	1	0	23.96	24.12	23.98
	1	2	24.32	24.43	24.40
	1	5	24.17	24.18	24.09
	3	0	23.05	23.05	23.02
	3	1	23.19	23.30	23.21
	3	3	22.94	23.05	22.92
	6	0	23.26	23.39	23.33
16QAM	1	0	23.06	23.15	23.04
	1	2	23.37	23.48	23.43
	1	5	23.20	23.23	23.22
	3	0	22.08	22.12	22.06
	3	1	22.24	22.33	22.27
	3	3	22.05	22.16	22.03
	6	0	22.36	22.49	22.35
64QAM	1	0	22.06	22.23	22.20
	1	2	22.43	22.54	22.48
	1	5	22.34	22.34	22.24
	3	0	21.14	21.19	21.16
	3	1	21.36	21.33	21.25
	3	3	21.14	21.15	21.10
	6	0	21.35	21.44	21.42
256QAM	1	0	19.05	19.20	18.97
	1	2	19.28	19.54	19.38
	1	5	19.28	19.27	19.14
	3	0	19.05	19.16	18.99
	3	1	19.12	19.32	19.26
	3	3	19.07	19.18	19.04
	6	0	19.24	19.43	19.36

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.92	24.43	22.02	23.53	38.45
16QAM	22.03	23.48	21.13	22.58	38.45
64QAM	21.1	22.54	20.2	21.64	38.45
256QAM	18.97	19.54	18.07	18.64	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26805	CH 26915	CH 27025
			825.5 MHz	836.5 MHz	847.5 MHz
QPSK	1	0	24.05	24.01	23.93
	1	7	24.24	24.39	24.28
	1	14	24.11	24.17	24.10
	8	0	23.04	23.03	23.06
	8	3	23.17	23.28	23.20
	8	7	22.99	23.05	22.90
	15	0	23.29	23.39	23.29
16QAM	1	0	23.09	23.16	23.03
	1	7	23.36	23.42	23.36
	1	14	23.10	23.26	23.13
	8	0	22.02	22.13	22.06
	8	3	22.31	22.37	22.17
	8	7	22.05	22.06	21.99
	15	0	22.34	22.45	22.36
64QAM	1	0	22.14	22.11	22.09
	1	7	22.42	22.50	22.45
	1	14	22.16	22.31	22.15
	8	0	21.10	21.18	21.17
	8	3	21.33	21.35	21.23
	8	7	21.12	21.11	21.07
	15	0	21.44	21.46	21.36
256QAM	1	0	19.15	19.03	19.13
	1	7	19.34	19.42	19.31
	1	14	19.22	19.18	19.14
	8	0	19.03	19.02	18.98
	8	3	19.28	19.18	19.13
	8	7	19.08	19.00	18.85
	15	0	19.28	19.42	19.25

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	22.9	24.39	22	23.49	38.45
16QAM	21.99	23.42	21.09	22.52	38.45
64QAM	21.07	22.5	20.17	21.6	38.45
256QAM	18.85	19.42	17.95	18.52	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26815	CH 26915	CH 27015
			826.5 MHz	836.5 MHz	846.5 MHz
QPSK	1	0	24.06	24.08	24.03
	1	12	24.29	24.41	24.26
	1	24	24.13	24.19	24.07
	12	0	23.13	23.16	23.06
	12	6	23.14	23.19	23.18
	12	13	23.05	23.12	23.05
	25	0	23.31	23.37	23.28
16QAM	1	0	23.14	23.13	23.02
	1	12	23.34	23.37	23.40
	1	24	23.15	23.19	23.21
	12	0	22.23	22.23	22.10
	12	6	22.24	22.26	22.23
	12	13	22.14	22.15	22.07
	25	0	22.37	22.37	22.36
64QAM	1	0	22.15	22.21	22.06
	1	12	22.39	22.46	22.48
	1	24	22.24	22.27	22.20
	12	0	21.20	21.27	21.14
	12	6	21.35	21.39	21.30
	12	13	21.14	21.11	21.15
	25	0	21.47	21.47	21.42
256QAM	1	0	19.10	19.19	19.09
	1	12	19.23	19.42	19.38
	1	24	19.11	19.17	18.99
	12	0	19.17	19.10	19.08
	12	6	19.27	19.20	19.23
	12	13	18.97	19.03	18.93
	25	0	19.39	19.37	19.20

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.05	24.41	22.15	23.51	38.45
16QAM	22.07	23.4	21.17	22.5	38.45
64QAM	21.11	22.48	20.21	21.58	38.45
256QAM	18.93	19.42	18.03	18.52	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26840	CH 26915	CH 26990
			829 MHz	836.5 MHz	844 MHz
QPSK	1	0	24.10	24.45	24.38
	1	24	24.21	24.28	24.19
	1	49	24.28	24.08	23.94
	25	0	23.30	23.36	23.30
	25	12	23.29	23.30	23.20
	25	25	23.27	23.30	23.28
	50	0	23.48	23.31	23.21
16QAM	1	0	23.17	23.44	23.38
	1	24	23.25	23.37	23.19
	1	49	23.30	23.17	22.99
	25	0	22.31	22.44	22.38
	25	12	22.36	22.42	22.37
	25	25	22.41	22.41	22.36
	50	0	22.51	22.38	22.32
64QAM	1	0	22.27	22.53	22.42
	1	24	22.35	22.45	22.36
	1	49	22.40	22.18	21.99
	25	0	21.37	21.47	21.44
	25	12	21.45	21.52	21.38
	25	25	21.49	21.43	21.39
	50	0	21.52	21.42	21.34
256QAM	1	0	19.11	19.39	19.33
	1	24	19.29	19.28	19.17
	1	49	19.29	19.06	18.89
	25	0	19.21	19.33	19.24
	25	12	19.32	19.24	19.35
	25	25	19.36	19.27	19.31
	50	0	19.38	19.36	19.23

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.2	24.45	22.3	23.55	38.45
16QAM	22.31	23.44	21.41	22.54	38.45
64QAM	21.34	22.53	20.44	21.63	38.45
256QAM	18.89	19.39	17.99	18.49	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 26865	CH 26915	CH 26965
			831.5 MHz	836.5 MHz	841.5 MHz
QPSK	1	0	24.12	24.27	24.17
	1	37	24.47	24.49	24.46
	1	74	24.24	24.31	24.19
	36	0	23.16	23.28	23.17
	36	19	23.34	23.40	23.34
	36	39	23.14	23.18	23.08
	75	0	23.47	23.57	23.43
16QAM	1	0	23.29	23.25	23.25
	1	37	23.48	23.59	23.56
	1	74	23.23	23.30	23.27
	36	0	22.30	22.32	22.26
	36	19	22.35	22.40	22.39
	36	39	22.23	22.27	22.12
	75	0	22.58	22.62	22.51
64QAM	1	0	22.31	22.30	22.30
	1	37	22.59	22.58	22.63
	1	74	22.27	22.41	22.35
	36	0	21.32	21.39	21.33
	36	19	21.36	21.48	21.44
	36	39	21.32	21.30	21.19
	75	0	21.54	21.62	21.53
256QAM	1	0	19.26	19.16	19.27
	1	37	19.50	19.40	19.54
	1	74	19.24	19.22	19.26
	36	0	19.35	19.33	19.20
	36	19	19.22	19.47	19.25
	36	39	19.16	19.25	19.14
	75	0	19.43	19.54	19.45

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.49	22.18	23.59	38.45
16QAM	22.12	23.59	21.22	22.69	38.45
64QAM	21.19	22.63	20.29	21.73	38.45
256QAM	19.14	19.54	18.24	18.64	38.45

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

7.1.9 LTE Band 38

LTE Band 38, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37775	CH 38000	CH 38225
			2572.5 MHz	2595 MHz	2617.5 MHz
QPSK	1	0	23.60	23.75	23.70
	1	12	23.63	23.64	23.64
	1	24	23.60	23.69	23.60
	12	0	22.91	23.00	22.89
	12	6	22.62	22.67	22.59
	12	13	22.62	22.74	22.59
	25	0	22.78	22.86	22.76
16QAM	1	0	22.77	22.86	22.68
	1	12	22.70	22.76	22.68
	1	24	22.68	22.65	22.64
	12	0	22.00	22.06	21.96
	12	6	21.66	21.70	21.66
	12	13	21.67	21.77	21.73
	25	0	21.90	21.96	21.87
64QAM	1	0	21.75	21.86	21.77
	1	12	21.67	21.75	21.73
	1	24	21.72	21.71	21.66
	12	0	21.01	21.17	21.11
	12	6	20.70	20.86	20.73
	12	13	20.75	20.85	20.79
	25	0	20.90	21.03	20.87
256QAM	1	0	18.73	18.76	18.80
	1	12	18.53	18.61	18.57
	1	24	18.70	18.67	18.56
	12	0	19.01	19.12	18.90
	12	6	18.56	18.62	18.72
	12	13	18.60	18.69	18.68
	25	0	18.91	18.87	18.76

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.59	23.75	25.34	26.5	33.01
16QAM	21.66	22.86	24.41	25.61	33.01
64QAM	20.7	21.86	23.45	24.61	33.01
256QAM	18.53	19.12	21.28	21.87	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37800	CH 38000	CH 38200
			2575 MHz	2595 MHz	2615 MHz
QPSK	1	0	23.64	23.67	23.59
	1	24	23.58	23.60	23.58
	1	49	23.48	23.55	23.52
	25	0	23.00	23.00	22.98
	25	12	22.65	22.68	22.67
	25	25	22.66	22.77	22.61
	50	0	22.69	22.82	22.76
16QAM	1	0	22.68	22.76	22.56
	1	24	22.67	22.76	22.59
	1	49	22.52	22.70	22.54
	25	0	22.04	22.06	22.06
	25	12	21.67	21.70	21.76
	25	25	21.70	21.81	21.69
	50	0	21.81	21.94	21.73
64QAM	1	0	21.68	21.84	21.63
	1	24	21.69	21.75	21.68
	1	49	21.66	21.71	21.57
	25	0	21.05	21.12	21.10
	25	12	20.78	20.79	20.76
	25	25	20.70	20.86	20.71
	50	0	20.95	21.01	20.78
256QAM	1	0	18.65	18.68	18.53
	1	24	18.60	18.81	18.64
	1	49	18.62	18.55	18.60
	25	0	19.04	18.96	19.07
	25	12	18.54	18.64	18.57
	25	25	18.63	18.69	18.61
	50	0	18.85	18.82	18.75

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.61	23.67	25.36	26.42	33.01
16QAM	21.67	22.76	24.42	25.51	33.01
64QAM	20.7	21.84	23.45	24.59	33.01
256QAM	18.53	19.07	21.28	21.82	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37825	CH 38000	CH 38175
			2577.5 MHz	2595 MHz	2612.5 MHz
QPSK	1	0	23.58	23.66	23.59
	1	37	23.51	23.63	23.57
	1	74	23.57	23.58	23.49
	36	0	22.89	23.02	22.87
	36	19	22.68	22.67	22.65
	36	39	22.68	22.77	22.71
	75	0	22.84	22.83	22.85
16QAM	1	0	22.69	22.76	22.66
	1	37	22.64	22.67	22.57
	1	74	22.61	22.64	22.60
	36	0	21.91	21.98	21.89
	36	19	21.73	21.68	21.69
	36	39	21.70	21.77	21.77
	75	0	21.88	21.93	21.91
64QAM	1	0	21.70	21.79	21.69
	1	37	21.64	21.67	21.68
	1	74	21.66	21.70	21.64
	36	0	21.06	21.05	21.03
	36	19	20.80	20.73	20.79
	36	39	20.76	20.87	20.81
	75	0	20.87	21.00	20.84
256QAM	1	0	18.69	18.71	18.48
	1	37	18.55	18.59	18.52
	1	74	18.65	18.66	18.59
	36	0	18.97	18.93	18.83
	36	19	18.76	18.64	18.57
	36	39	18.65	18.75	18.77
	75	0	18.86	19.03	18.73

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.65	23.66	25.4	26.41	33.01
16QAM	21.68	22.76	24.43	25.51	33.01
64QAM	20.73	21.79	23.48	24.54	33.01
256QAM	18.48	19.03	21.23	21.78	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 38, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 37850	CH 38000	CH 38150
			2580 MHz	2595 MHz	2610 MHz
QPSK	1	0	23.81	23.80	23.80
	1	50	23.73	23.74	23.68
	1	99	23.69	23.79	23.66
	50	0	23.12	23.13	23.03
	50	25	22.72	22.89	22.80
	50	50	22.81	22.89	22.78
	100	0	22.95	23.00	22.91
16QAM	1	0	22.85	22.95	22.79
	1	50	22.81	22.80	22.80
	1	99	22.72	22.77	22.71
	50	0	22.18	22.20	22.21
	50	25	21.84	21.93	21.85
	50	50	21.85	21.89	21.85
	100	0	21.98	22.06	22.00
64QAM	1	0	21.90	21.98	21.85
	1	50	21.85	21.83	21.83
	1	99	21.87	21.79	21.77
	50	0	21.17	21.19	21.23
	50	25	20.85	20.96	20.92
	50	50	20.90	20.91	20.97
	100	0	21.00	21.21	21.08
256QAM	1	0	18.74	18.82	18.76
	1	50	18.67	18.80	18.67
	1	99	18.67	18.74	18.68
	50	0	19.13	19.21	19.23
	50	25	18.89	18.93	18.84
	50	50	18.87	18.86	18.91
	100	0	18.84	19.18	19.00

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.72	23.81	25.47	26.56	33.01
16QAM	21.84	22.95	24.59	25.7	33.01
64QAM	20.85	21.98	23.6	24.73	33.01
256QAM	18.67	19.23	21.42	21.98	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.10 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39675	CH 40620	CH 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
QPSK	1	0	23.48	23.49	23.47
	1	12	23.42	23.48	23.46
	1	24	23.41	23.48	23.42
	12	0	22.57	22.67	22.61
	12	6	22.51	22.55	22.44
	12	13	22.64	22.74	22.66
	25	0	22.44	22.47	22.44
16QAM	1	0	22.53	22.57	22.53
	1	12	22.52	22.59	22.50
	1	24	22.54	22.60	22.52
	12	0	21.67	21.76	21.64
	12	6	21.58	21.59	21.48
	12	13	21.64	21.82	21.62
	25	0	21.47	21.48	21.49
64QAM	1	0	21.52	21.58	21.60
	1	12	21.61	21.69	21.59
	1	24	21.58	21.72	21.50
	12	0	20.75	20.83	20.59
	12	6	20.57	20.68	20.53
	12	13	20.69	20.86	20.68
	25	0	20.50	20.59	20.54
256QAM	1	0	18.34	18.55	18.49
	1	12	18.43	18.58	18.43
	1	24	18.52	18.51	18.39
	12	0	18.67	18.60	18.65
	12	6	18.43	18.65	18.39
	12	13	18.67	18.90	18.59
	25	0	18.39	18.43	18.35

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.44	23.49	25.19	26.24	33.01
16QAM	21.47	22.6	24.22	25.35	33.01
64QAM	20.5	21.72	23.25	24.47	33.01
256QAM	18.34	18.9	21.09	21.65	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39700	CH 40620	CH 41540
			2501 MHz	2593 MHz	2685 MHz
QPSK	1	0	23.43	23.54	23.46
	1	24	23.41	23.45	23.44
	1	49	23.43	23.46	23.31
	25	0	22.69	22.77	22.69
	25	12	22.58	22.59	22.54
	25	25	22.66	22.74	22.68
	50	0	22.47	22.46	22.46
16QAM	1	0	22.52	22.69	22.61
	1	24	22.47	22.48	22.56
	1	49	22.40	22.50	22.41
	25	0	21.70	21.86	21.78
	25	12	21.64	21.61	21.53
	25	25	21.61	21.74	21.67
	50	0	21.46	21.55	21.52
64QAM	1	0	21.55	21.80	21.64
	1	24	21.53	21.57	21.59
	1	49	21.40	21.64	21.57
	25	0	20.79	20.95	20.84
	25	12	20.58	20.65	20.60
	25	25	20.76	20.77	20.69
	50	0	20.59	20.62	20.53
256QAM	1	0	18.50	18.68	18.61
	1	24	18.45	18.45	18.37
	1	49	18.41	18.45	18.46
	25	0	18.73	18.90	18.81
	25	12	18.44	18.68	18.46
	25	25	18.76	18.78	18.59
	50	0	18.57	18.42	18.40

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.46	23.54	25.21	26.29	33.01
16QAM	21.46	22.69	24.21	25.44	33.01
64QAM	20.53	21.8	23.28	24.55	33.01
256QAM	18.37	18.9	21.12	21.65	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39725	CH 40620	CH 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
QPSK	1	0	23.48	23.52	23.45
	1	37	23.37	23.47	23.40
	1	74	23.34	23.43	23.40
	36	0	22.68	22.69	22.65
	36	19	22.48	22.62	22.51
	36	39	22.60	22.73	22.63
	75	0	22.50	22.57	22.51
16QAM	1	0	22.54	22.70	22.63
	1	37	22.44	22.51	22.52
	1	74	22.47	22.52	22.50
	36	0	21.72	21.72	21.82
	36	19	21.55	21.61	21.62
	36	39	21.63	21.77	21.68
	75	0	21.54	21.62	21.56
64QAM	1	0	21.56	21.80	21.69
	1	37	21.50	21.56	21.59
	1	74	21.57	21.58	21.58
	36	0	20.77	20.77	20.84
	36	19	20.65	20.62	20.64
	36	39	20.61	20.83	20.76
	75	0	20.60	20.63	20.69
256QAM	1	0	18.46	18.75	18.63
	1	37	18.43	18.46	18.54
	1	74	18.39	18.56	18.43
	36	0	18.62	18.77	18.72
	36	19	18.49	18.61	18.49
	36	39	18.67	18.74	18.58
	75	0	18.57	18.64	18.61

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.48	23.52	25.23	26.27	33.01
16QAM	21.54	22.7	24.29	25.45	33.01
64QAM	20.6	21.8	23.35	24.55	33.01
256QAM	18.39	18.77	21.14	21.52	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 41, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 39750	CH 40620	CH 41490
			2506 MHz	2593 MHz	2680 MHz
QPSK	1	0	23.66	23.67	23.60
	1	50	23.58	23.70	23.55
	1	99	23.58	23.59	23.58
	50	0	22.77	22.85	22.75
	50	25	22.66	22.68	22.62
	50	50	22.71	22.78	22.75
	100	0	22.56	22.65	22.54
16QAM	1	0	22.71	22.80	22.63
	1	50	22.67	22.73	22.73
	1	99	22.66	22.73	22.67
	50	0	21.80	21.96	21.78
	50	25	21.68	21.71	21.67
	50	50	21.76	21.85	21.83
	100	0	21.70	21.74	21.64
64QAM	1	0	21.75	21.79	21.73
	1	50	21.77	21.80	21.72
	1	99	21.78	21.80	21.73
	50	0	20.77	21.03	20.86
	50	25	20.71	20.88	20.73
	50	50	20.81	20.92	20.89
	100	0	20.73	20.81	20.70
256QAM	1	0	18.61	18.60	18.64
	1	50	18.69	18.73	18.70
	1	99	18.75	18.60	18.62
	50	0	18.72	18.90	18.78
	50	25	18.52	18.80	18.61
	50	50	18.60	18.82	18.80
	100	0	18.67	18.75	18.72

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.54	23.7	25.29	26.45	33.01
16QAM	21.64	22.8	24.39	25.55	33.01
64QAM	20.7	21.8	23.45	24.55	33.01
256QAM	18.52	18.9	21.27	21.65	33.01

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.11 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42115	CH 42590	CH 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
QPSK	1	0	23.33	23.40	23.35
	1	12	23.47	23.52	23.44
	1	24	23.39	23.46	23.39
	12	0	22.59	22.66	22.61
	12	6	22.56	22.64	22.57
	12	13	22.49	22.57	22.48
	25	0	22.46	22.52	22.46
16QAM	1	0	22.41	22.42	22.45
	1	12	22.51	22.58	22.46
	1	24	22.47	22.52	22.49
	12	0	21.64	21.70	21.66
	12	6	21.64	21.68	21.67
	12	13	21.57	21.59	21.50
	25	0	21.52	21.59	21.48
64QAM	1	0	21.42	21.48	21.50
	1	12	21.58	21.66	21.56
	1	24	21.50	21.55	21.55
	12	0	20.67	20.74	20.76
	12	6	20.70	20.75	20.74
	12	13	20.64	20.62	20.56
	25	0	20.54	20.68	20.58
256QAM	1	0	18.29	18.40	18.46
	1	12	18.58	18.64	18.50
	1	24	18.47	18.55	18.51
	12	0	18.57	18.69	18.66
	12	6	18.61	18.67	18.62
	12	13	18.61	18.62	18.43
	25	0	18.40	18.64	18.47

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.46	23.52	22.16	23.22	30.00
16QAM	21.48	22.58	21.18	22.28	30.00
64QAM	20.54	21.66	20.24	21.36	30.00
256QAM	18.29	18.69	17.99	18.39	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42140	CH 42590	CH 43040
			3455 MHz	3500 MHz	3545 MHz
QPSK	1	0	23.36	23.42	23.37
	1	24	23.44	23.49	23.40
	1	49	23.38	23.47	23.41
	25	0	22.59	22.65	22.60
	25	12	22.57	22.62	22.57
	25	25	22.59	22.64	22.56
	50	0	22.45	22.51	22.44
16QAM	1	0	22.38	22.49	22.45
	1	24	22.49	22.55	22.46
	1	49	22.44	22.49	22.47
	25	0	21.68	21.69	21.64
	25	12	21.60	21.64	21.59
	25	25	21.69	21.68	21.66
	50	0	21.48	21.54	21.54
64QAM	1	0	21.46	21.53	21.53
	1	24	21.54	21.59	21.56
	1	49	21.50	21.53	21.53
	25	0	20.70	20.79	20.68
	25	12	20.65	20.73	20.66
	25	25	20.77	20.71	20.70
	50	0	20.50	20.57	20.57
256QAM	1	0	18.37	18.49	18.44
	1	24	18.53	18.53	18.54
	1	49	18.33	18.52	18.50
	25	0	18.62	18.72	18.55
	25	12	18.61	18.67	18.60
	25	25	18.76	18.58	18.65
	50	0	18.44	18.42	18.41

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.44	23.49	22.14	23.19	30.00
16QAM	21.48	22.55	21.18	22.25	30.00
64QAM	20.5	21.59	20.2	21.29	30.00
256QAM	18.33	18.76	18.03	18.46	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42165	CH 42590	CH 43015
			3457.5 MHz	3500 MHz	3542.5 MHz
QPSK	1	0	23.39	23.48	23.39
	1	37	23.45	23.50	23.42
	1	74	23.44	23.53	23.44
	36	0	22.61	22.67	22.60
	36	19	22.51	22.60	22.51
	36	39	22.50	22.58	22.52
	75	0	22.47	22.55	22.50
16QAM	1	0	22.48	22.54	22.46
	1	37	22.53	22.54	22.44
	1	74	22.47	22.63	22.51
	36	0	21.69	21.70	21.64
	36	19	21.54	21.67	21.61
	36	39	21.57	21.65	21.56
	75	0	21.55	21.62	21.57
64QAM	1	0	21.54	21.61	21.50
	1	37	21.58	21.63	21.48
	1	74	21.56	21.68	21.56
	36	0	20.72	20.72	20.68
	36	19	20.61	20.73	20.71
	36	39	20.64	20.71	20.58
	75	0	20.65	20.64	20.59
256QAM	1	0	18.50	18.54	18.35
	1	37	18.43	18.59	18.30
	1	74	18.56	18.67	18.44
	36	0	18.58	18.56	18.51
	36	19	18.57	18.60	18.67
	36	39	18.63	18.64	18.41
	75	0	18.59	18.64	18.45

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.47	23.53	22.17	23.23	30.00
16QAM	21.54	22.63	21.24	22.33	30.00
64QAM	20.58	21.68	20.28	21.38	30.00
256QAM	18.3	18.67	18	18.37	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 42190	CH 42590	CH 42990
			3460 MHz	3500 MHz	3540 MHz
QPSK	1	0	23.53	23.58	23.53
	1	50	23.60	23.65	23.56
	1	99	23.55	23.64	23.57
	50	0	22.75	22.80	22.71
	50	25	22.72	22.78	22.72
	50	50	22.69	22.76	22.70
	100	0	22.62	22.70	22.63
16QAM	1	0	22.55	22.61	22.59
	1	50	22.69	22.71	22.63
	1	99	22.58	22.66	22.66
	50	0	21.78	21.83	21.75
	50	25	21.74	21.82	21.82
	50	50	21.73	21.84	21.78
	100	0	21.68	21.77	21.65
64QAM	1	0	21.61	21.70	21.68
	1	50	21.78	21.78	21.65
	1	99	21.67	21.69	21.76
	50	0	20.82	20.87	20.80
	50	25	20.79	20.88	20.86
	50	50	20.81	20.93	20.84
	100	0	20.78	20.79	20.69
256QAM	1	0	18.47	18.52	18.56
	1	50	18.73	18.68	18.51
	1	99	18.56	18.55	18.75
	50	0	18.74	18.79	18.75
	50	25	18.71	18.84	18.68
	50	50	18.77	18.87	18.73
	100	0	18.61	18.70	18.59

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.62	23.65	22.32	23.35	30.00
16QAM	21.65	22.71	21.35	22.41	30.00
64QAM	20.69	21.78	20.39	21.48	30.00
256QAM	18.47	18.87	18.17	18.57	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.12 LTE Band 66

LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131979	CH 132322	CH 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
QPSK	1	0	23.39	23.47	23.40
	1	2	23.34	23.43	23.38
	1	5	23.04	23.12	23.06
	3	0	23.22	23.28	23.21
	3	1	23.11	23.18	23.12
	3	3	23.22	23.28	23.20
	6	0	22.10	22.18	22.11
16QAM	1	0	22.42	22.53	22.48
	1	2	22.36	22.53	22.41
	1	5	22.10	22.22	22.11
	3	0	22.30	22.31	22.29
	3	1	22.14	22.28	22.20
	3	3	22.30	22.38	22.24
	6	0	21.16	21.25	21.19
64QAM	1	0	21.47	21.61	21.56
	1	2	21.41	21.58	21.50
	1	5	21.11	21.26	21.16
	3	0	21.33	21.41	21.32
	3	1	21.18	21.37	21.27
	3	3	21.37	21.41	21.29
	6	0	20.20	20.34	20.24
256QAM	1	0	18.32	18.60	18.47
	1	2	18.26	18.45	18.47
	1	5	17.93	18.24	18.11
	3	0	18.20	18.28	18.15
	3	1	18.00	18.23	18.17
	3	3	18.28	18.29	18.14
	6	0	18.15	18.27	18.15

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.1	23.47	25.41	26.78	30.00
16QAM	21.16	22.53	24.47	25.84	30.00
64QAM	20.2	21.61	23.51	24.92	30.00
256QAM	17.93	18.6	21.24	21.91	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131987	CH 132322	CH 132657
			1711.5 MHz	1745 MHz	1778.5 MHz
QPSK	1	0	23.44	23.52	23.45
	1	7	23.40	23.45	23.36
	1	14	23.10	23.18	23.12
	8	0	22.21	22.29	22.24
	8	3	22.11	22.20	22.14
	8	7	22.25	22.30	22.21
	15	0	22.11	22.19	22.10
16QAM	1	0	22.47	22.59	22.48
	1	7	22.50	22.55	22.39
	1	14	22.12	22.21	22.20
	8	0	21.27	21.40	21.30
	8	3	21.13	21.25	21.20
	8	7	21.29	21.40	21.23
	15	0	21.14	21.22	21.11
64QAM	1	0	21.53	21.67	21.52
	1	7	21.53	21.63	21.47
	1	14	21.20	21.29	21.25
	8	0	20.32	20.42	20.32
	8	3	20.23	20.33	20.23
	8	7	20.36	20.50	20.25
	15	0	20.19	20.26	20.18
256QAM	1	0	18.41	18.52	18.43
	1	7	18.36	18.51	18.40
	1	14	18.08	18.14	18.06
	8	0	18.13	18.35	18.25
	8	3	18.23	18.20	18.21
	8	7	18.17	18.49	18.17
	15	0	18.11	18.18	18.16

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.1	23.52	25.41	26.83	30.00
16QAM	21.11	22.59	24.42	25.9	30.00
64QAM	20.18	21.67	23.49	24.98	30.00
256QAM	18.06	18.52	21.37	21.83	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 131997	CH 132322	CH 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
QPSK	1	0	23.45	23.54	23.48
	1	12	23.32	23.37	23.29
	1	24	23.03	23.12	23.05
	12	0	22.15	22.25	22.19
	12	6	22.11	22.20	22.12
	12	13	22.18	22.25	22.17
	25	0	22.08	22.15	22.09
16QAM	1	0	22.50	22.61	22.58
	1	12	22.42	22.44	22.32
	1	24	22.06	22.15	22.08
	12	0	21.24	21.32	21.29
	12	6	21.18	21.23	21.18
	12	13	21.26	21.34	21.22
	25	0	21.16	21.26	21.15
64QAM	1	0	21.52	21.64	21.67
	1	12	21.51	21.48	21.40
	1	24	21.14	21.24	21.18
	12	0	20.28	20.38	20.39
	12	6	20.26	20.27	20.28
	12	13	20.33	20.43	20.32
	25	0	20.19	20.33	20.17
256QAM	1	0	18.46	18.47	18.60
	1	12	18.51	18.36	18.34
	1	24	18.02	18.09	18.15
	12	0	18.22	18.34	18.22
	12	6	18.22	18.20	18.28
	12	13	18.24	18.32	18.14
	25	0	18.13	18.23	18.13

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.08	23.54	25.39	26.85	30.00
16QAM	21.15	22.61	24.46	25.92	30.00
64QAM	20.17	21.67	23.48	24.98	30.00
256QAM	18.02	18.6	21.33	21.91	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132022	CH 132322	CH 132622
			1715 MHz	1745 MHz	1775 MHz
QPSK	1	0	23.49	23.56	23.48
	1	24	23.35	23.41	23.31
	1	49	23.01	23.10	23.03
	25	0	22.24	22.30	22.22
	25	12	22.16	22.24	22.19
	25	25	22.14	22.23	22.16
	50	0	22.13	22.22	22.16
16QAM	1	0	22.58	22.63	22.52
	1	24	22.40	22.46	22.39
	1	49	22.05	22.16	22.07
	25	0	21.26	21.34	21.29
	25	12	21.21	21.32	21.20
	25	25	21.16	21.27	21.26
	50	0	21.16	21.31	21.24
64QAM	1	0	21.67	21.70	21.62
	1	24	21.47	21.48	21.49
	1	49	21.13	21.26	21.10
	25	0	20.29	20.42	20.34
	25	12	20.27	20.35	20.27
	25	25	20.20	20.29	20.35
	50	0	20.18	20.37	20.33
256QAM	1	0	18.51	18.68	18.59
	1	24	18.31	18.31	18.40
	1	49	18.12	18.12	18.05
	25	0	18.13	18.28	18.27
	25	12	18.15	18.29	18.15
	25	25	18.01	18.11	18.30
	50	0	18.07	18.28	18.32

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.13	23.56	25.44	26.87	30.00
16QAM	21.16	22.63	24.47	25.94	30.00
64QAM	20.18	21.7	23.49	25.01	30.00
256QAM	18.01	18.68	21.32	21.99	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132047	CH 132322	CH 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
QPSK	1	0	23.49	23.56	23.47
	1	37	23.27	23.35	23.26
	1	74	23.06	23.14	23.04
	36	0	22.17	22.24	22.18
	36	19	22.13	22.19	22.12
	36	39	22.14	22.24	22.15
	75	0	22.16	22.21	22.16
16QAM	1	0	22.54	22.64	22.53
	1	37	22.34	22.42	22.34
	1	74	22.13	22.17	22.10
	36	0	21.26	21.32	21.21
	36	19	21.23	21.24	21.18
	36	39	21.20	21.25	21.17
	75	0	21.23	21.25	21.20
64QAM	1	0	21.61	21.69	21.62
	1	37	21.38	21.46	21.44
	1	74	21.15	21.22	21.18
	36	0	20.29	20.36	20.23
	36	19	20.32	20.31	20.22
	36	39	20.29	20.27	20.22
	75	0	20.33	20.27	20.24
256QAM	1	0	18.52	18.67	18.43
	1	37	18.33	18.37	18.33
	1	74	18.09	18.09	18.05
	36	0	18.26	18.25	18.19
	36	19	18.26	18.23	18.08
	36	39	18.12	18.08	18.09
	75	0	18.30	18.13	18.11

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.12	23.56	25.43	26.87	30.00
16QAM	21.17	22.64	24.48	25.95	30.00
64QAM	20.22	21.69	23.53	25	30.00
256QAM	18.05	18.67	21.36	21.98	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

LTE Band 66, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 132072	CH 132322	CH 132572
			1720 MHz	1745 MHz	1770 MHz
QPSK	1	0	23.58	23.66	23.61
	1	50	23.49	23.55	23.49
	1	99	23.20	23.29	23.22
	50	0	22.34	22.42	22.36
	50	25	22.26	22.35	22.28
	50	50	22.36	22.41	22.33
	100	0	22.29	22.35	22.28
16QAM	1	0	22.66	22.71	22.69
	1	50	22.59	22.62	22.54
	1	99	22.30	22.31	22.27
	50	0	21.43	21.49	21.43
	50	25	21.28	21.44	21.34
	50	50	21.45	21.43	21.37
	100	0	21.39	21.39	21.33
64QAM	1	0	21.76	21.76	21.75
	1	50	21.69	21.71	21.64
	1	99	21.38	21.39	21.36
	50	0	20.47	20.54	20.51
	50	25	20.37	20.53	20.38
	50	50	20.53	20.53	20.39
	100	0	20.47	20.46	20.43
256QAM	1	0	18.72	18.74	18.65
	1	50	18.62	18.59	18.60
	1	99	18.36	18.29	18.26
	50	0	18.29	18.38	18.44
	50	25	18.30	18.36	18.28
	50	50	18.42	18.38	18.22
	100	0	18.35	18.28	18.36

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	22.26	23.66	25.57	26.97	30.00
16QAM	21.28	22.71	24.59	26.02	30.00
64QAM	20.37	21.76	23.68	25.07	30.00
256QAM	18.22	18.74	21.53	22.05	30.00

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.13 LTE Band 71

LTE Band 71, Channel Bandwidth: 5 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133147	CH 133297	CH 133447
			665.5 MHz	680.5 MHz	695.5 MHz
QPSK	1	0	24.38	24.36	24.28
	1	12	24.16	24.22	24.19
	1	24	24.19	24.27	24.20
	12	0	23.23	23.27	23.21
	12	6	23.24	23.35	23.21
	12	13	23.03	23.11	23.04
	25	0	23.17	23.26	23.15
16QAM	1	0	23.35	23.44	23.39
	1	12	23.28	23.26	23.24
	1	24	23.22	23.28	23.19
	12	0	22.26	22.33	22.32
	12	6	22.27	22.35	22.26
	12	13	22.12	22.20	22.18
	25	0	22.24	22.31	22.26
64QAM	1	0	22.38	22.49	22.48
	1	12	22.28	22.32	22.31
	1	24	22.27	22.44	22.28
	12	0	21.36	21.39	21.43
	12	6	21.32	21.38	21.36
	12	13	21.25	21.35	21.17
	25	0	21.29	21.32	21.33
256QAM	1	0	19.25	19.39	19.28
	1	12	19.30	19.07	19.16
	1	24	19.17	19.38	19.16
	12	0	19.38	19.31	19.31
	12	6	19.29	19.40	19.17
	12	13	19.08	19.27	19.08
	25	0	19.31	19.25	19.29

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.03	24.38	21.41	22.76	34.77
16QAM	22.12	23.44	20.5	21.82	34.77
64QAM	21.17	22.49	19.55	20.87	34.77
256QAM	19.07	19.4	17.45	17.78	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133172	CH 133297	CH 133422
			668 MHz	680.5 MHz	693 MHz
QPSK	1	0	24.27	24.32	24.27
	1	24	24.20	24.26	24.24
	1	49	24.21	24.24	24.19
	25	0	23.19	23.19	23.13
	25	12	23.24	23.24	23.24
	25	25	23.06	23.11	23.07
	50	0	23.09	23.22	23.10
16QAM	1	0	23.32	23.43	23.33
	1	24	23.23	23.39	23.31
	1	49	23.26	23.35	23.18
	25	0	22.20	22.29	22.26
	25	12	22.33	22.41	22.25
	25	25	22.14	22.21	22.15
	50	0	22.21	22.31	22.21
64QAM	1	0	22.39	22.47	22.32
	1	24	22.30	22.40	22.36
	1	49	22.35	22.35	22.23
	25	0	21.29	21.36	21.32
	25	12	21.37	21.35	21.39
	25	25	21.24	21.31	21.18
	50	0	21.23	21.31	21.22
256QAM	1	0	19.22	19.42	19.24
	1	24	19.22	19.41	19.11
	1	49	19.20	19.38	19.08
	25	0	19.15	19.18	19.11
	25	12	19.36	19.38	19.24
	25	25	19.17	19.24	19.11
	50	0	19.19	19.10	19.11

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.06	24.32	21.44	22.7	34.77
16QAM	22.14	23.43	20.52	21.81	34.77
64QAM	21.18	22.47	19.56	20.85	34.77
256QAM	19.08	19.42	17.46	17.8	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133197	CH 133297	CH 133397
			670.5 MHz	680.5 MHz	690.5 MHz
QPSK	1	0	24.26	24.36	24.23
	1	37	24.23	24.29	24.22
	1	74	24.10	24.19	24.13
	36	0	23.08	23.25	23.08
	36	19	23.28	23.30	23.24
	36	39	23.12	23.15	23.18
	75	0	23.11	23.18	23.17
16QAM	1	0	23.30	23.38	23.39
	1	37	23.33	23.30	23.21
	1	74	23.15	23.16	23.16
	36	0	22.15	22.22	22.16
	36	19	22.30	22.43	22.31
	36	39	22.17	22.28	22.17
	75	0	22.17	22.26	22.13
64QAM	1	0	22.42	22.48	22.39
	1	37	22.43	22.33	22.25
	1	74	22.27	22.20	22.26
	36	0	21.17	21.29	21.25
	36	19	21.30	21.49	21.36
	36	39	21.28	21.40	21.26
	75	0	21.19	21.30	21.22
256QAM	1	0	19.38	19.37	19.27
	1	37	19.34	19.25	19.26
	1	74	19.11	19.05	19.21
	36	0	19.15	19.31	19.09
	36	19	19.23	19.44	19.26
	36	39	19.34	19.36	19.07
	75	0	19.19	19.17	19.16

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.08	24.36	21.46	22.74	34.77
16QAM	22.13	23.39	20.51	21.77	34.77
64QAM	21.17	22.48	19.55	20.86	34.77
256QAM	19.05	19.44	17.43	17.82	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

ERP (dBm) = EIRP (dBm) - 2.15

LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 133222	CH 133297	CH 133372
			673 MHz	680.5 MHz	688 MHz
QPSK	1	0	24.41	24.52	24.47
	1	50	24.38	24.45	24.40
	1	99	24.28	24.31	24.27
	50	0	23.37	23.45	23.32
	50	25	23.40	23.45	23.29
	50	50	23.27	23.29	23.24
	100	0	23.30	23.38	23.27
16QAM	1	0	23.55	23.57	23.44
	1	50	23.36	23.50	23.50
	1	99	23.41	23.47	23.35
	50	0	22.35	22.54	22.41
	50	25	22.45	22.46	22.39
	50	50	22.28	22.46	22.35
	100	0	22.34	22.40	22.40
64QAM	1	0	22.52	22.58	22.63
	1	50	22.39	22.46	22.47
	1	99	22.52	22.55	22.40
	50	0	21.39	21.54	21.51
	50	25	21.52	21.47	21.45
	50	50	21.41	21.48	21.44
	100	0	21.38	21.45	21.40
256QAM	1	0	19.33	19.50	19.57
	1	50	19.18	19.41	19.48
	1	99	19.40	19.46	19.30
	50	0	19.39	19.39	19.45
	50	25	19.38	19.47	19.33
	50	50	19.37	19.36	19.28
	100	0	19.43	19.42	19.32

Output Power

Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum ERP (dBm)	Maximum ERP (dBm)	ERP Limit (dBm)
QPSK	23.24	24.52	21.62	22.9	34.77
16QAM	22.28	23.57	20.66	21.95	34.77
64QAM	21.38	22.63	19.76	21.01	34.77
256QAM	19.18	19.57	17.56	17.95	34.77

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

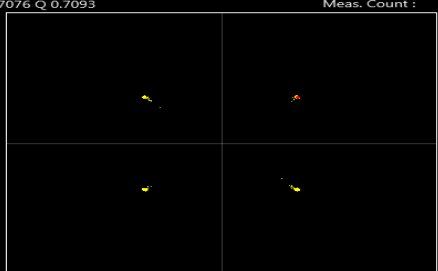
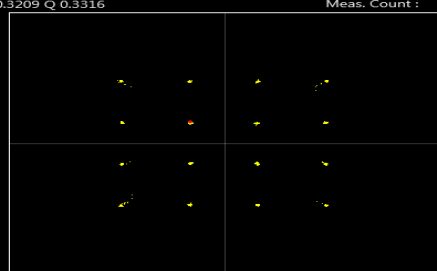
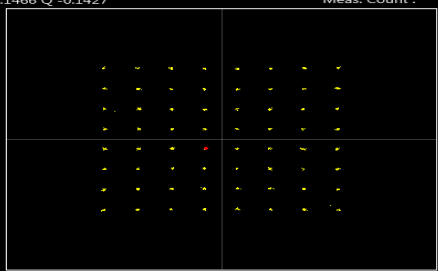
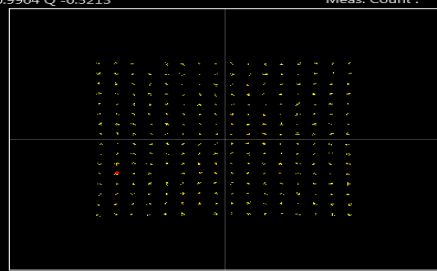
ERP (dBm) = EIRP (dBm) - 2.15

7.2 Modulation Characteristics

Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 67% RH	Tested By:	Noah Chang
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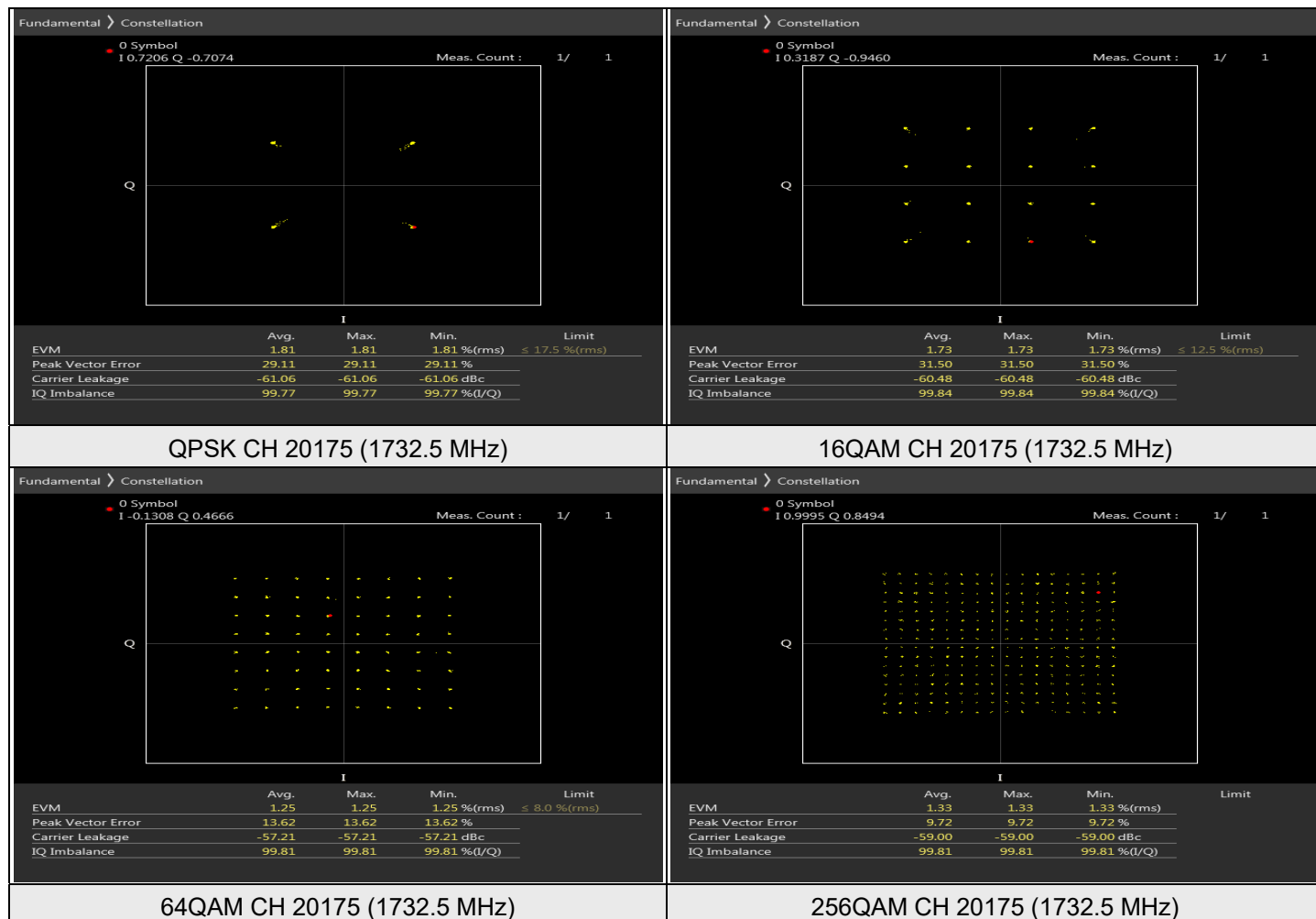
7.2.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 20 MHz

Fundamental > Constellation 0 Symbol I 0.7076 Q 0.7093 Meas. Count : 1/ 1  Q I <table><tr><td>EVM</td><td>Avg. 2.10</td><td>Max. 2.10</td><td>Min. 2.10 %(rms)</td><td>Limit ≤ 17.5 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>27.98</td><td>27.98</td><td>27.98 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-52.37</td><td>-52.37</td><td>-52.37 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>100.14</td><td>100.14</td><td>100.14 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 2.10	Max. 2.10	Min. 2.10 %(rms)	Limit ≤ 17.5 %(rms)	Peak Vector Error	27.98	27.98	27.98 %		Carrier Leakage	-52.37	-52.37	-52.37 dBc		IQ Imbalance	100.14	100.14	100.14 %(I/Q)		Fundamental > Constellation 0 Symbol I -0.3209 Q 0.3316 Meas. Count : 1/ 1  Q I <table><tr><td>EVM</td><td>Avg. 1.68</td><td>Max. 1.68</td><td>Min. 1.68 %(rms)</td><td>Limit ≤ 12.5 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>31.07</td><td>31.07</td><td>31.07 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-52.61</td><td>-52.61</td><td>-52.61 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>100.47</td><td>100.47</td><td>100.47 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 1.68	Max. 1.68	Min. 1.68 %(rms)	Limit ≤ 12.5 %(rms)	Peak Vector Error	31.07	31.07	31.07 %		Carrier Leakage	-52.61	-52.61	-52.61 dBc		IQ Imbalance	100.47	100.47	100.47 %(I/Q)	
EVM	Avg. 2.10	Max. 2.10	Min. 2.10 %(rms)	Limit ≤ 17.5 %(rms)																																					
Peak Vector Error	27.98	27.98	27.98 %																																						
Carrier Leakage	-52.37	-52.37	-52.37 dBc																																						
IQ Imbalance	100.14	100.14	100.14 %(I/Q)																																						
EVM	Avg. 1.68	Max. 1.68	Min. 1.68 %(rms)	Limit ≤ 12.5 %(rms)																																					
Peak Vector Error	31.07	31.07	31.07 %																																						
Carrier Leakage	-52.61	-52.61	-52.61 dBc																																						
IQ Imbalance	100.47	100.47	100.47 %(I/Q)																																						
QPSK CH 18900 (1880 MHz)	16QAM CH 18900 (1880 MHz)																																								
Fundamental > Constellation 0 Symbol I -0.1466 Q -0.1427 Meas. Count : 1/ 1  Q I <table><tr><td>EVM</td><td>Avg. 1.53</td><td>Max. 1.53</td><td>Min. 1.53 %(rms)</td><td>Limit ≤ 8.0 %(rms)</td></tr><tr><td>Peak Vector Error</td><td>20.69</td><td>20.69</td><td>20.69 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-51.21</td><td>-51.21</td><td>-51.21 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>99.85</td><td>99.85</td><td>99.85 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 1.53	Max. 1.53	Min. 1.53 %(rms)	Limit ≤ 8.0 %(rms)	Peak Vector Error	20.69	20.69	20.69 %		Carrier Leakage	-51.21	-51.21	-51.21 dBc		IQ Imbalance	99.85	99.85	99.85 %(I/Q)		Fundamental > Constellation 0 Symbol I -0.9904 Q -0.5213 Meas. Count : 1/ 1  Q I <table><tr><td>EVM</td><td>Avg. 1.52</td><td>Max. 1.52</td><td>Min. 1.52 %(rms)</td><td>Limit</td></tr><tr><td>Peak Vector Error</td><td>9.18</td><td>9.18</td><td>9.18 %</td><td></td></tr><tr><td>Carrier Leakage</td><td>-49.58</td><td>-49.58</td><td>-49.58 dBc</td><td></td></tr><tr><td>IQ Imbalance</td><td>99.53</td><td>99.53</td><td>99.53 %(I/Q)</td><td></td></tr></table>	EVM	Avg. 1.52	Max. 1.52	Min. 1.52 %(rms)	Limit	Peak Vector Error	9.18	9.18	9.18 %		Carrier Leakage	-49.58	-49.58	-49.58 dBc		IQ Imbalance	99.53	99.53	99.53 %(I/Q)	
EVM	Avg. 1.53	Max. 1.53	Min. 1.53 %(rms)	Limit ≤ 8.0 %(rms)																																					
Peak Vector Error	20.69	20.69	20.69 %																																						
Carrier Leakage	-51.21	-51.21	-51.21 dBc																																						
IQ Imbalance	99.85	99.85	99.85 %(I/Q)																																						
EVM	Avg. 1.52	Max. 1.52	Min. 1.52 %(rms)	Limit																																					
Peak Vector Error	9.18	9.18	9.18 %																																						
Carrier Leakage	-49.58	-49.58	-49.58 dBc																																						
IQ Imbalance	99.53	99.53	99.53 %(I/Q)																																						
64QAM CH 18900 (1880 MHz)	256QAM CH 18900 (1880 MHz)																																								

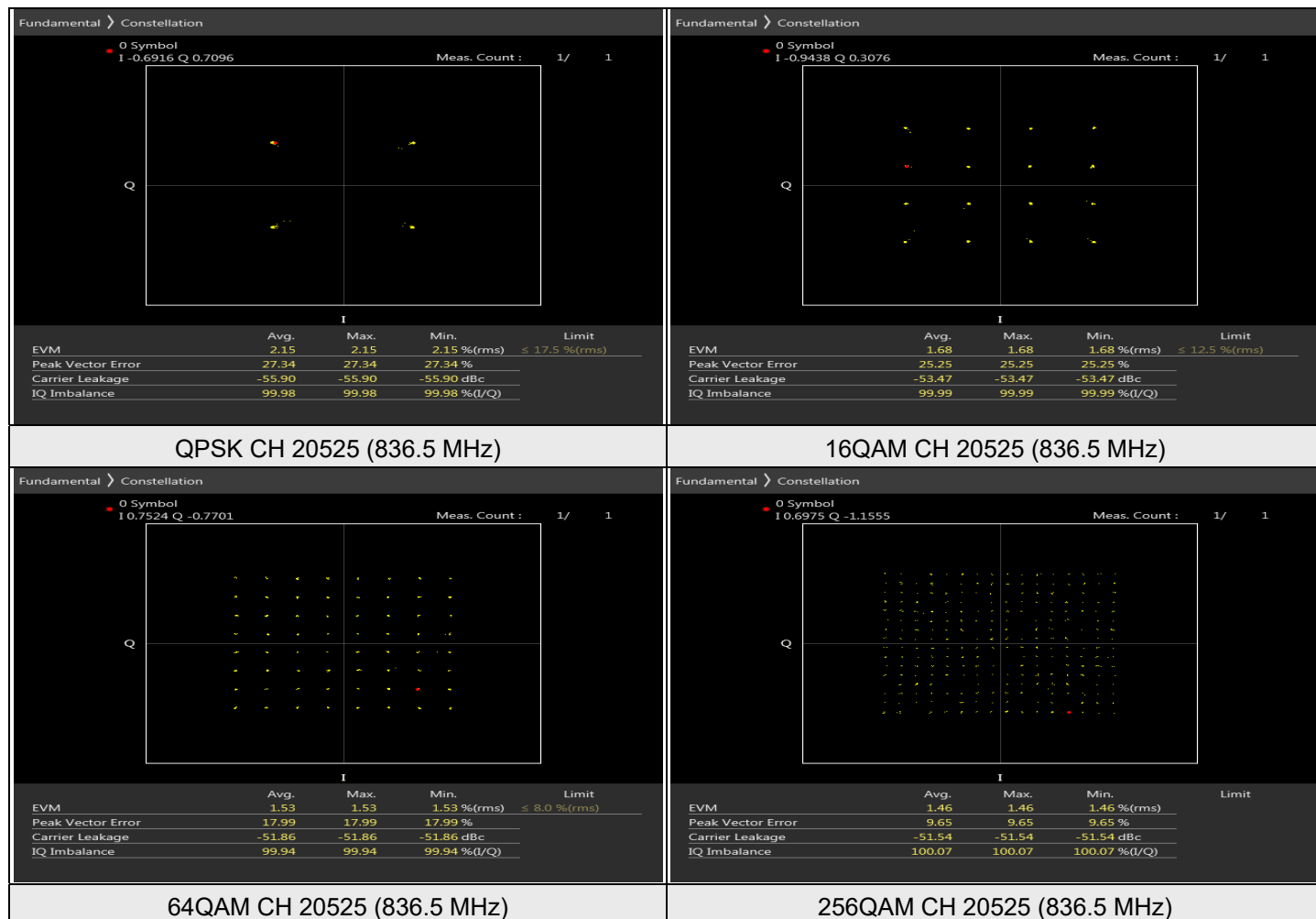
7.2.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 20 MHz



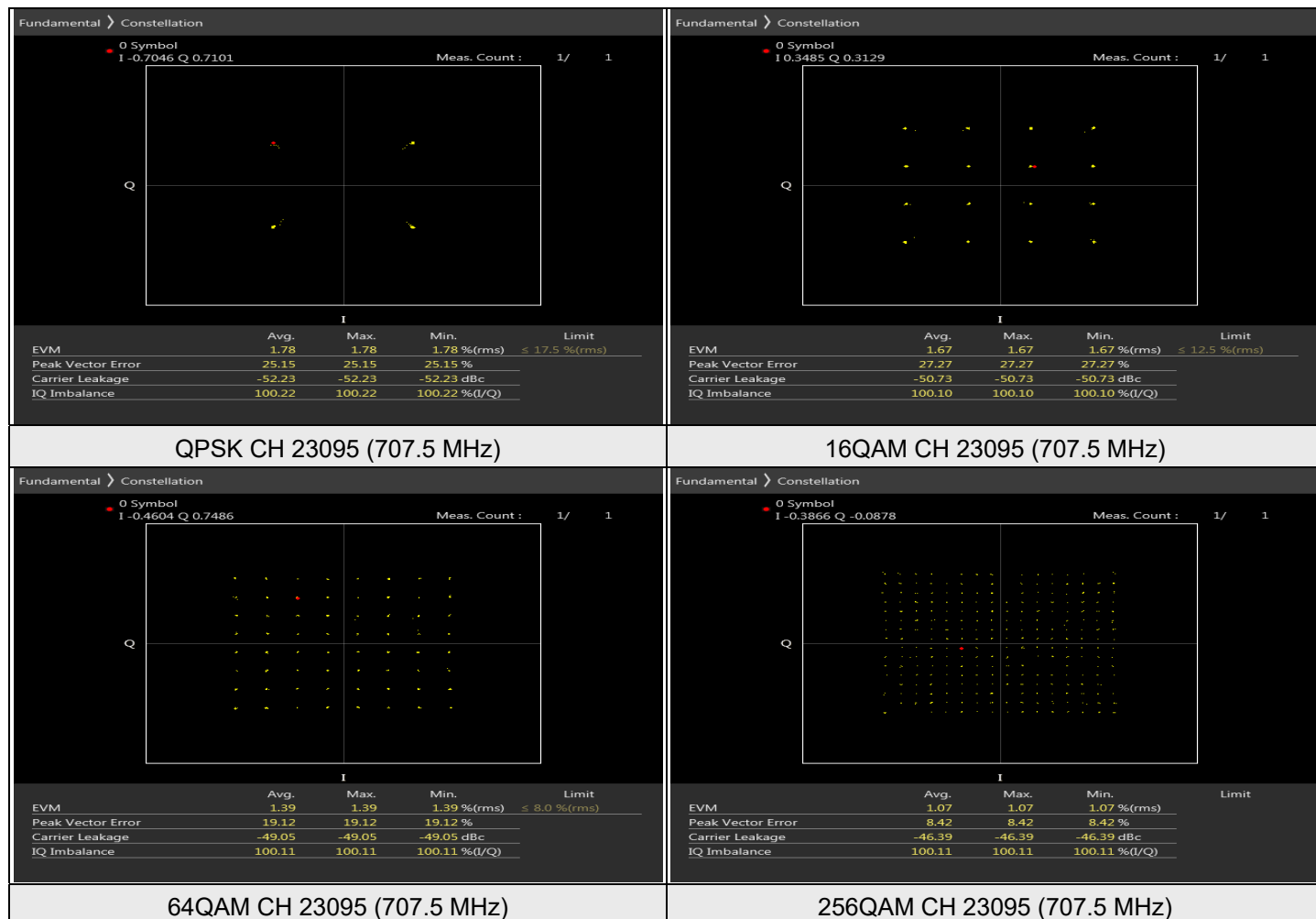
7.2.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 10 MHz



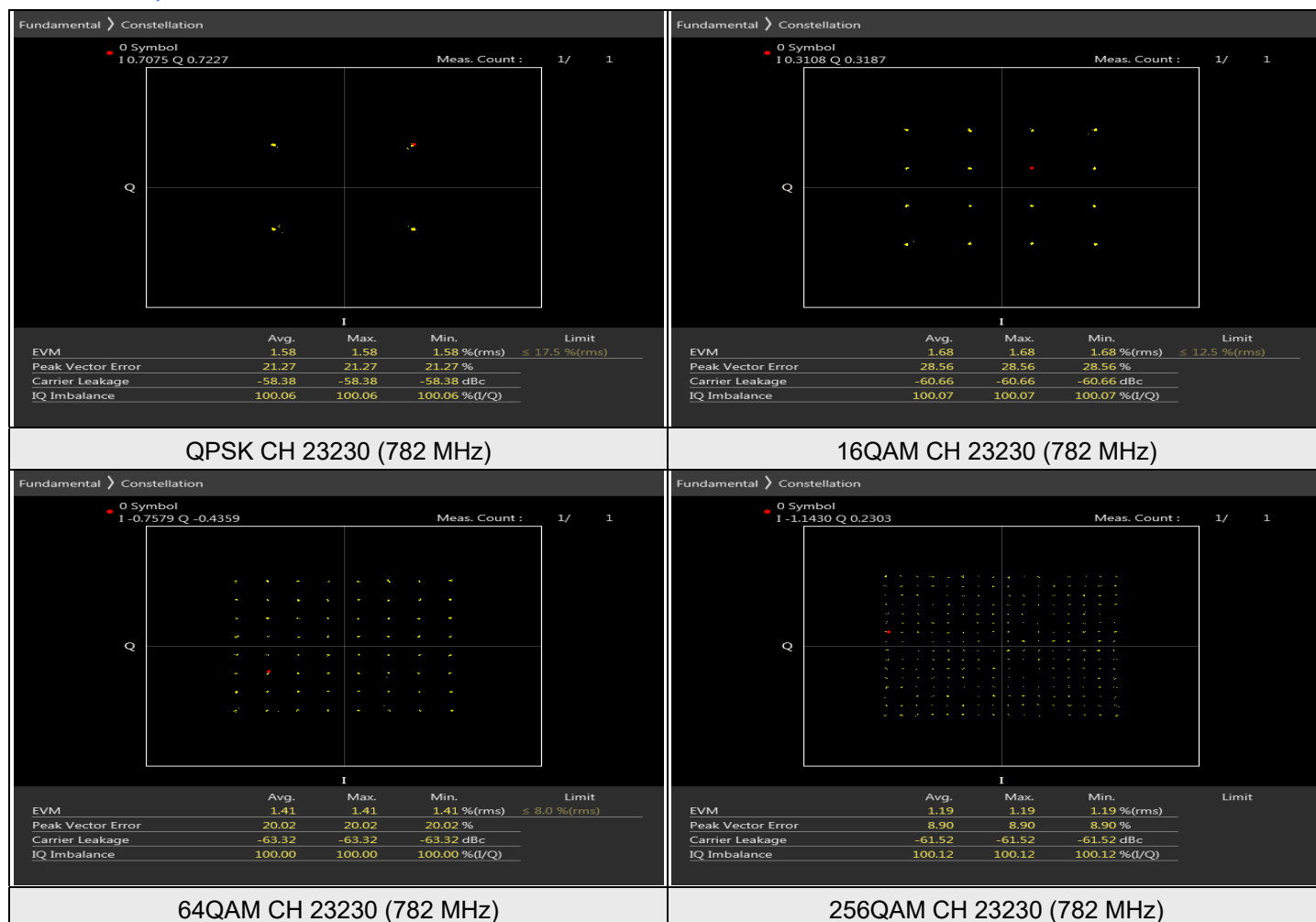
7.2.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 10 MHz



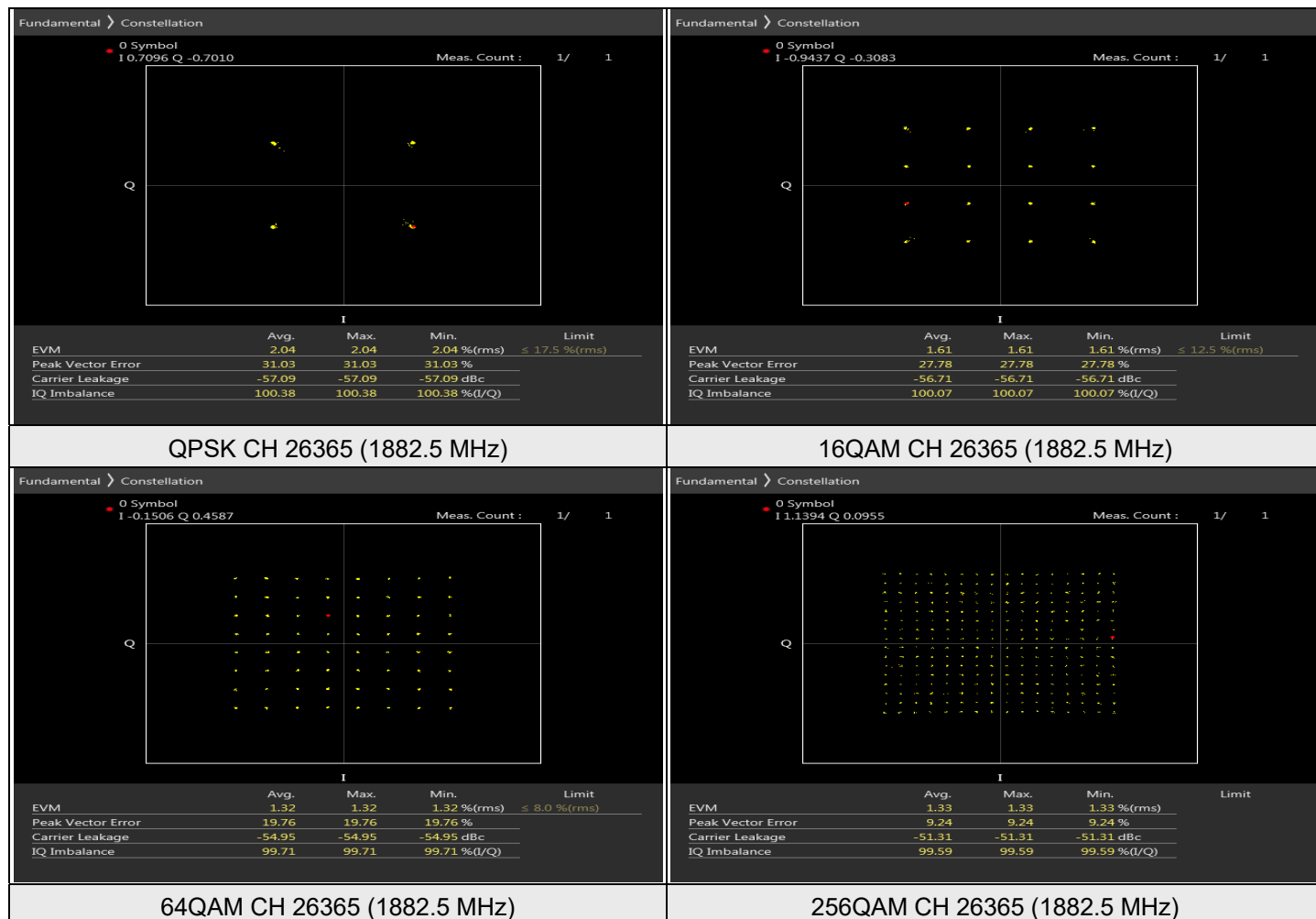
7.2.5 LTE Band 13

LTE Band 13, Channel Bandwidth: 10 MHz



7.2.6 LTE Band 25

LTE Band 25, Channel Bandwidth: 20 MHz



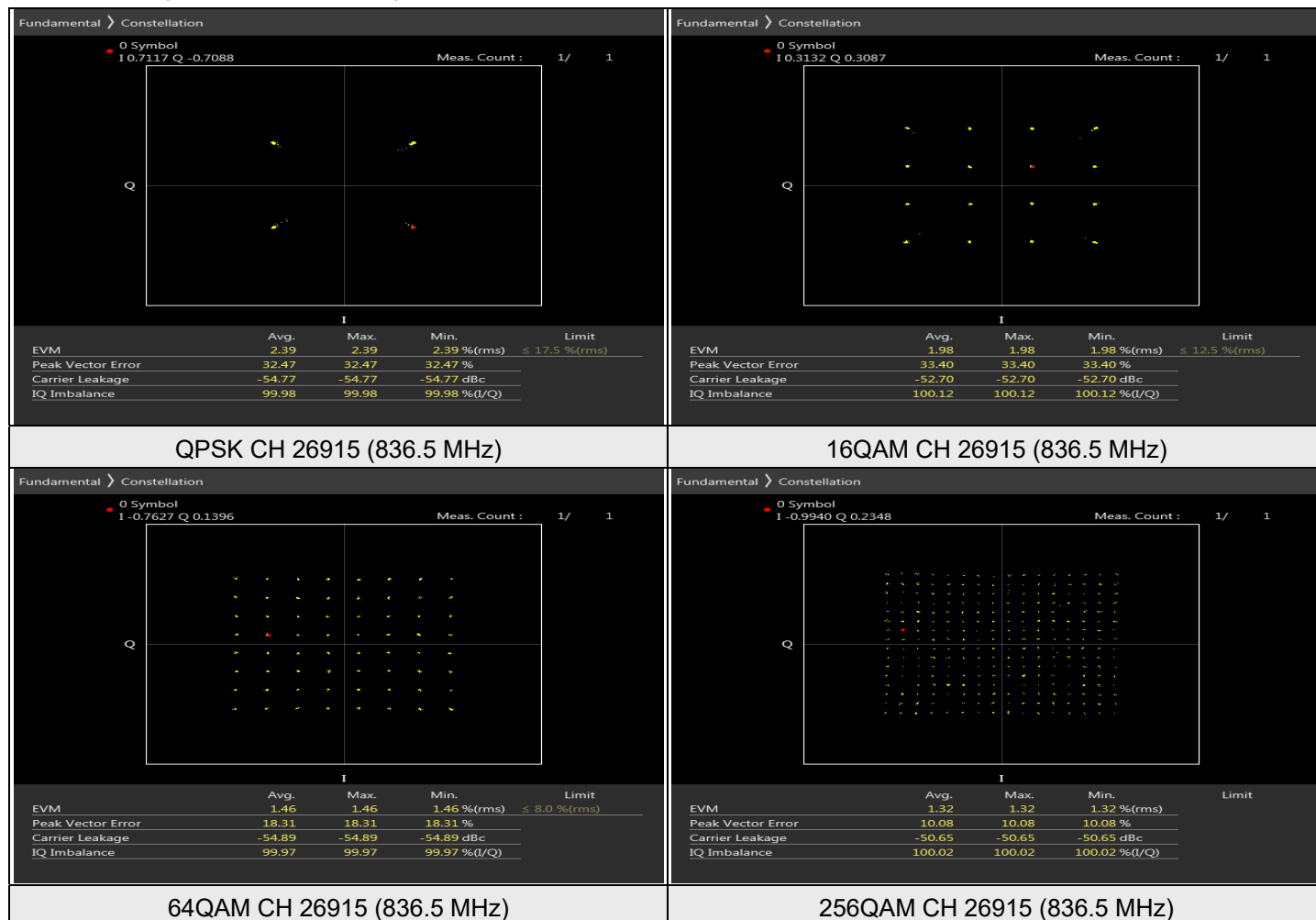
7.2.7 LTE Band 26 (814 MHz ~ 824 MHz)

LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz



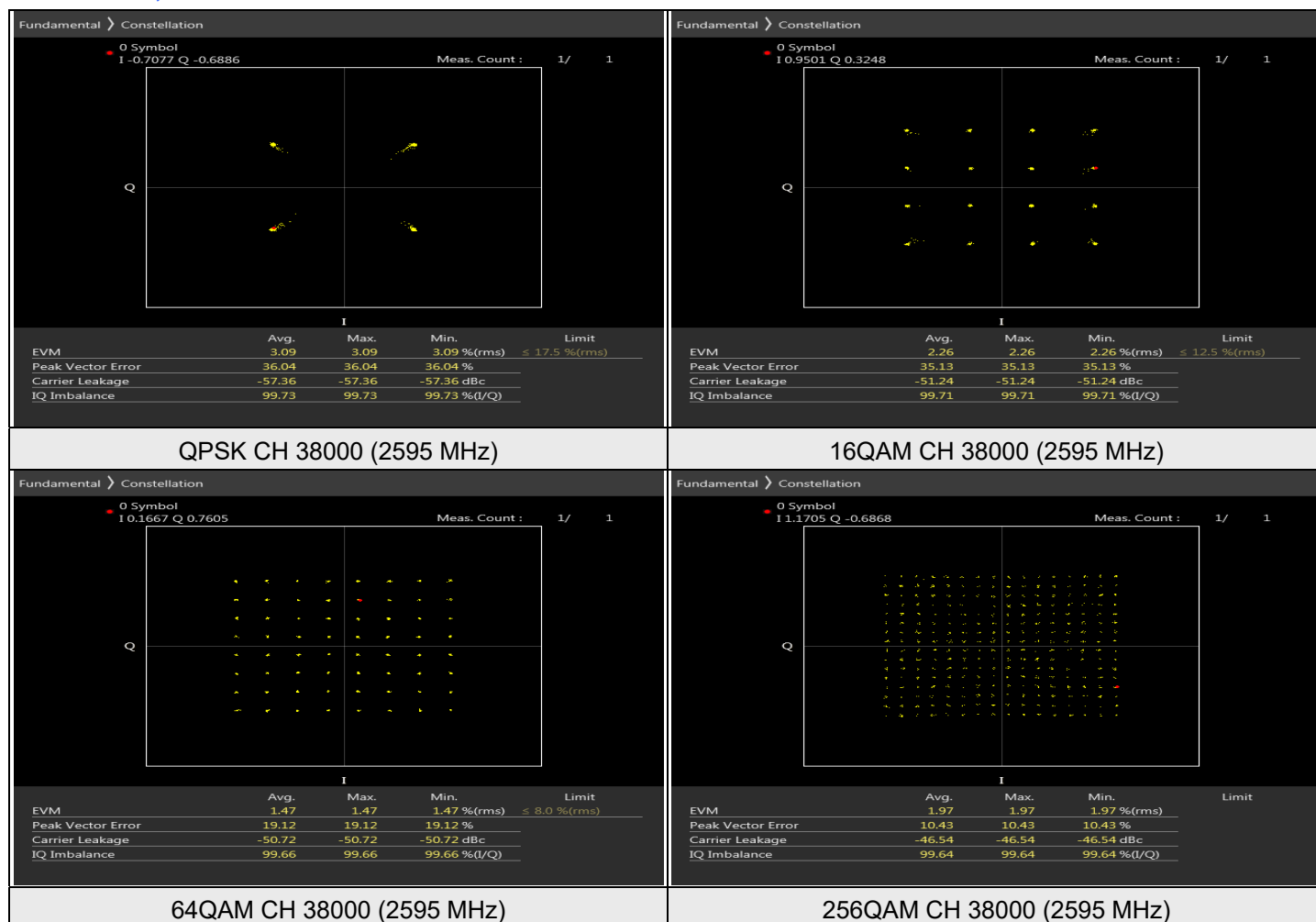
7.2.8 LTE Band 26 (824 MHz ~ 849 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz



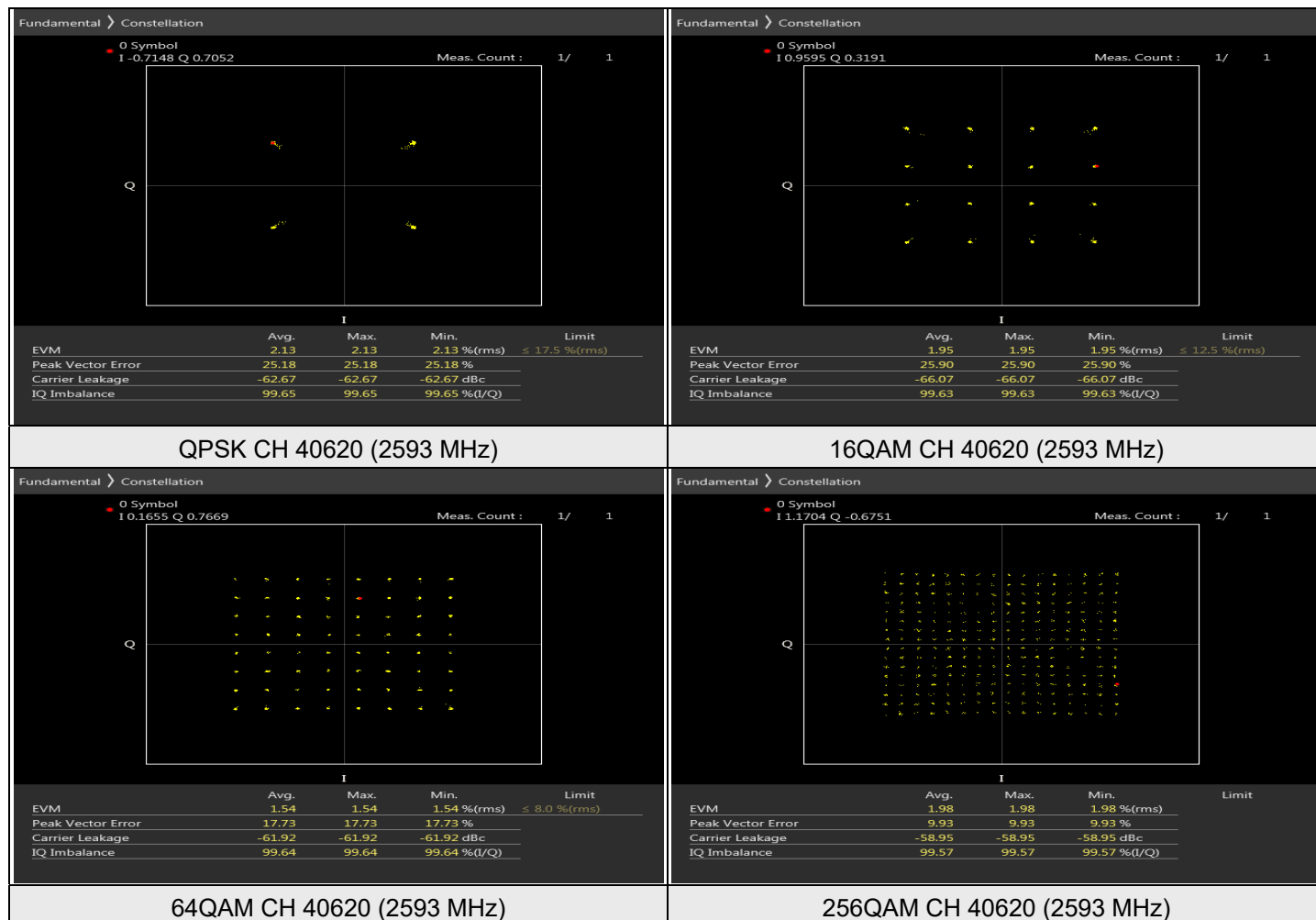
7.2.9 LTE Band 38

LTE Band 38, Channel Bandwidth: 20 MHz



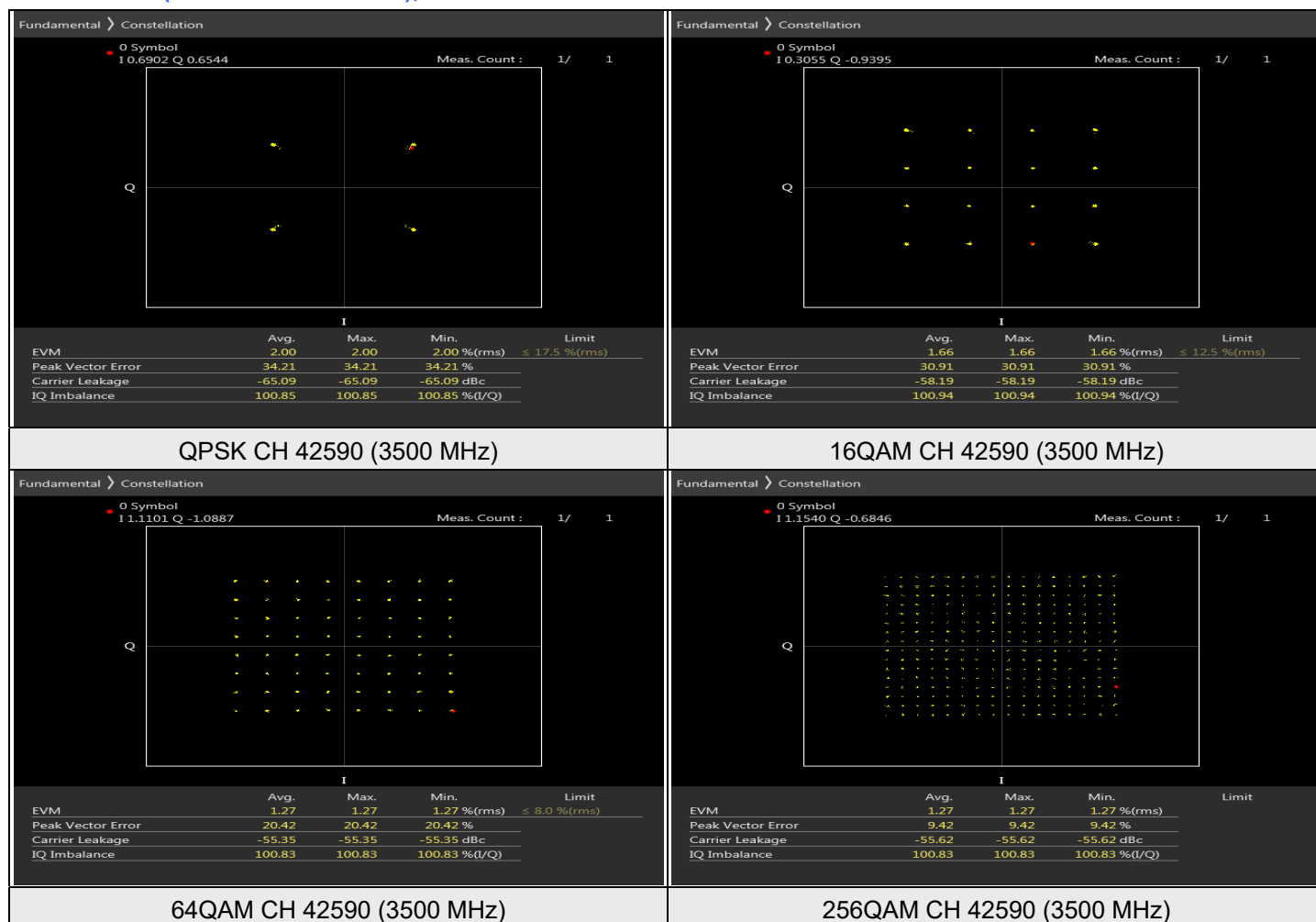
7.2.10 LTE Band 41

LTE Band 41, Channel Bandwidth: 20 MHz



7.2.11 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz



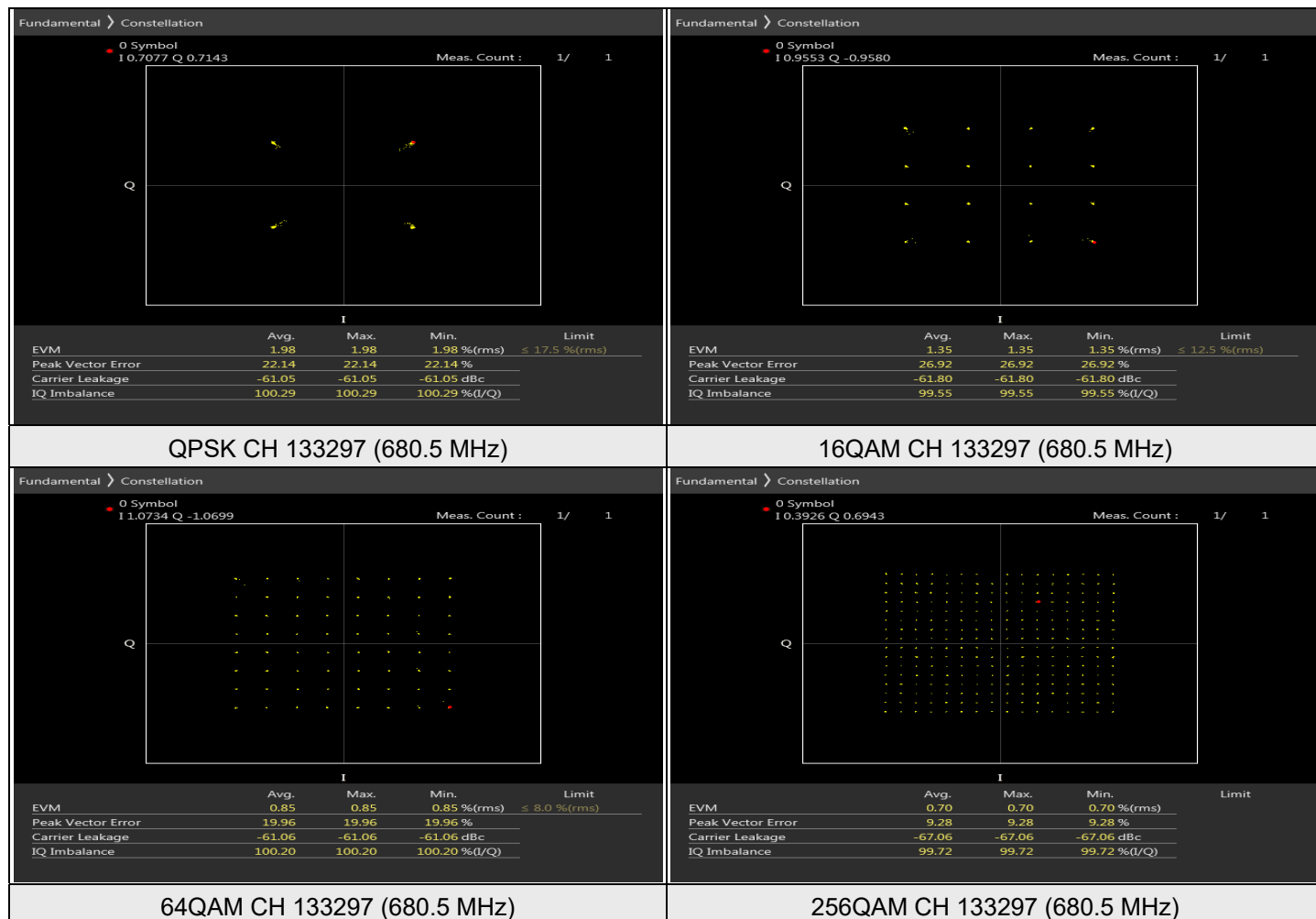
7.2.12 LTE Band 66

LTE Band 66, Channel Bandwidth: 20 MHz



7.2.13 LTE Band 71

LTE Band 71, Channel Bandwidth: 20 MHz



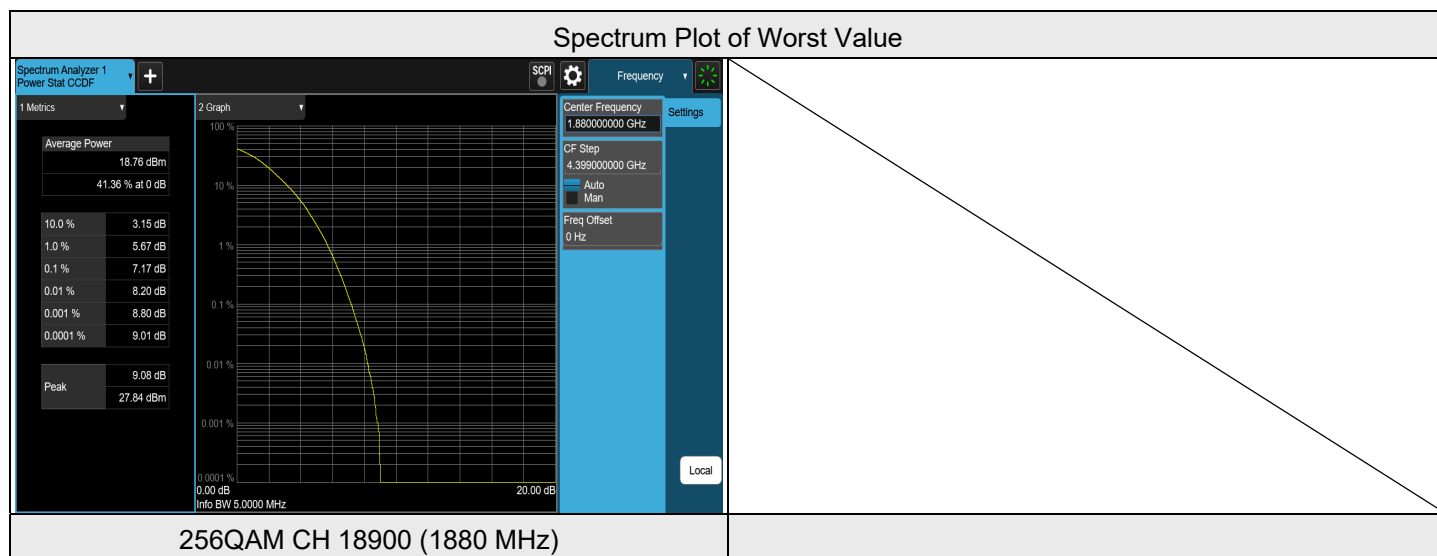
7.3 Peak to Average Ratio

Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 67% RH	Tested By:	Noah Chang
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7.3.1 LTE Band 2

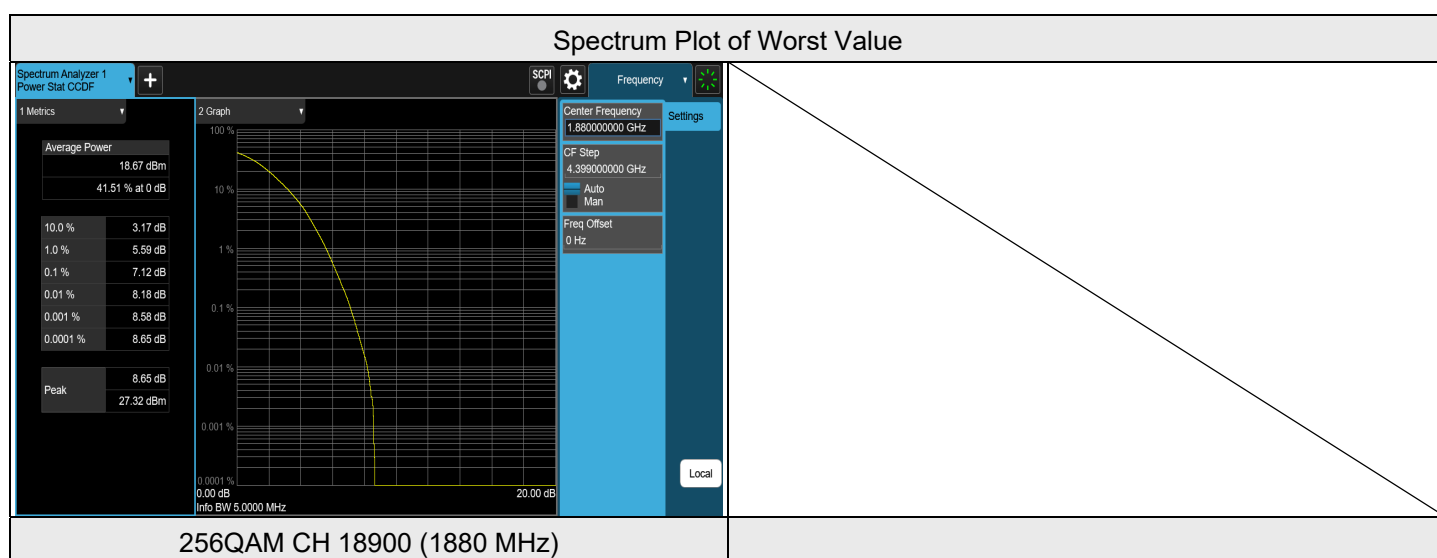
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18607	1850.7	3.73	13	PASS
QPSK	18900	1880	3.81	13	PASS
QPSK	19193	1909.3	3.75	13	PASS
16QAM	18607	1850.7	4.53	13	PASS
16QAM	18900	1880	4.63	13	PASS
16QAM	19193	1909.3	4.59	13	PASS
64QAM	18607	1850.7	5.53	13	PASS
64QAM	18900	1880	5.57	13	PASS
64QAM	19193	1909.3	5.55	13	PASS
256QAM	18607	1850.7	7.04	13	PASS
256QAM	18900	1880	7.17	13	PASS
256QAM	19193	1909.3	7.13	13	PASS



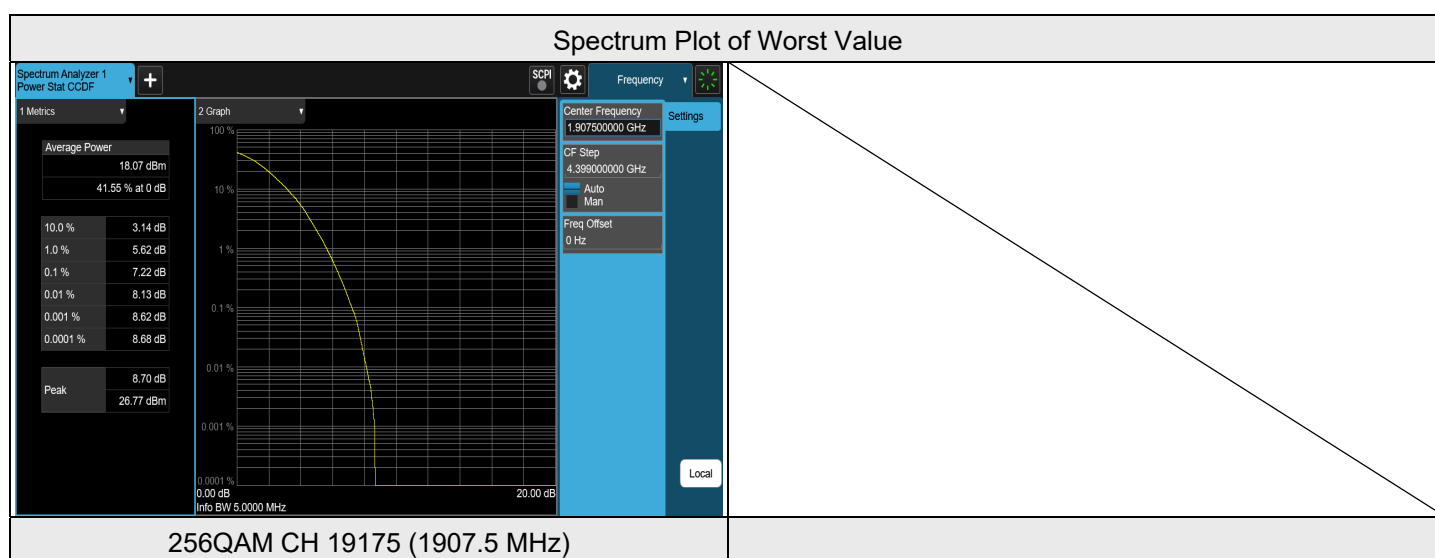
LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18615	1851.5	3.80	13	PASS
QPSK	18900	1880	3.88	13	PASS
QPSK	19185	1908.5	3.83	13	PASS
16QAM	18615	1851.5	4.87	13	PASS
16QAM	18900	1880	4.97	13	PASS
16QAM	19185	1908.5	4.92	13	PASS
64QAM	18615	1851.5	5.81	13	PASS
64QAM	18900	1880	5.92	13	PASS
64QAM	19185	1908.5	5.90	13	PASS
256QAM	18615	1851.5	6.98	13	PASS
256QAM	18900	1880	7.12	13	PASS
256QAM	19185	1908.5	7.04	13	PASS



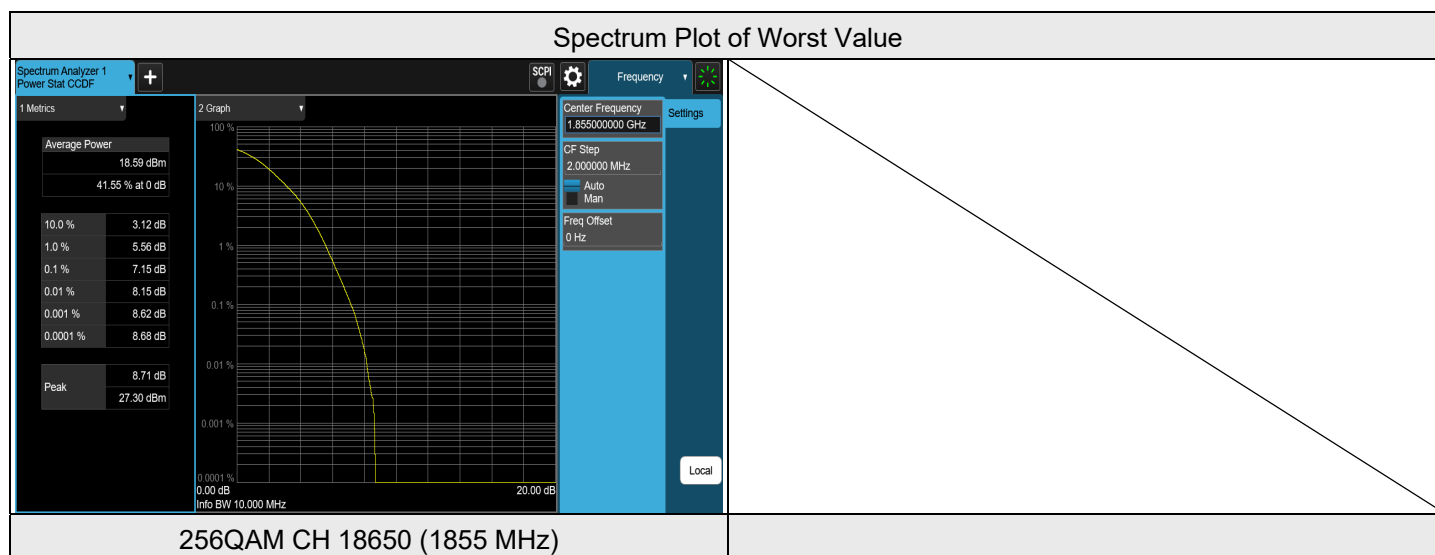
LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18625	1852.5	4.10	13	PASS
QPSK	18900	1880	4.16	13	PASS
QPSK	19175	1907.5	4.20	13	PASS
16QAM	18625	1852.5	4.91	13	PASS
16QAM	18900	1880	4.98	13	PASS
16QAM	19175	1907.5	5.03	13	PASS
64QAM	18625	1852.5	5.81	13	PASS
64QAM	18900	1880	5.87	13	PASS
64QAM	19175	1907.5	5.89	13	PASS
256QAM	18625	1852.5	7.07	13	PASS
256QAM	18900	1880	7.04	13	PASS
256QAM	19175	1907.5	7.22	13	PASS



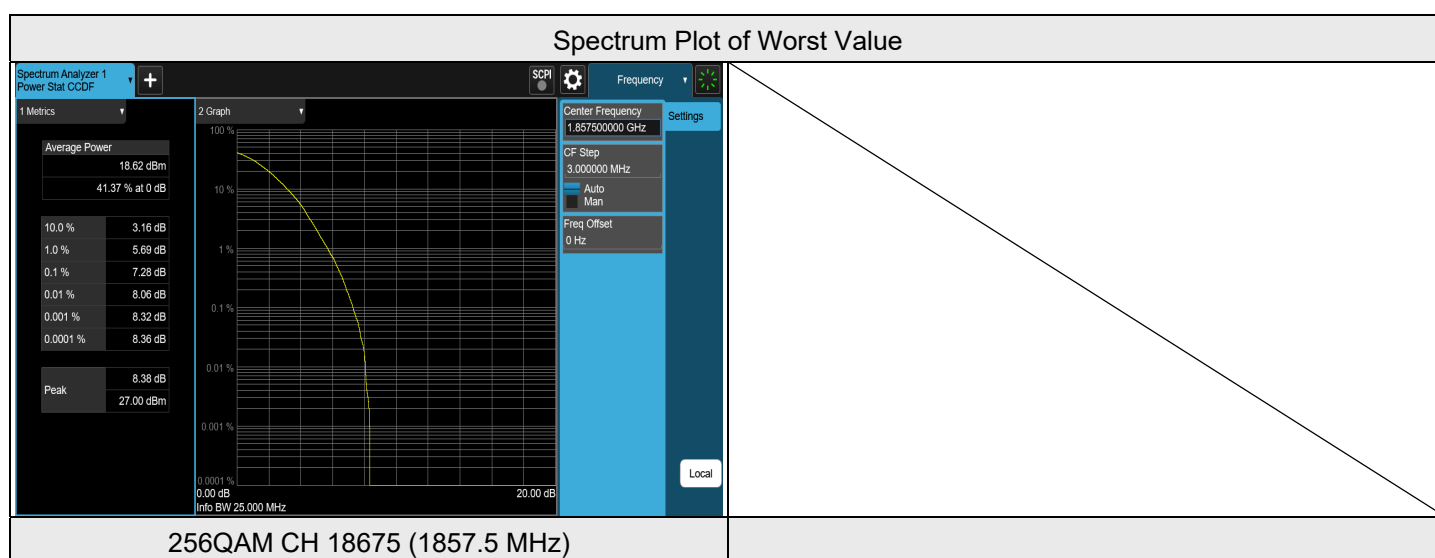
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18650	1855	4.13	13	PASS
QPSK	18900	1880	4.14	13	PASS
QPSK	19150	1905	4.13	13	PASS
16QAM	18650	1855	4.94	13	PASS
16QAM	18900	1880	4.96	13	PASS
16QAM	19150	1905	5.05	13	PASS
64QAM	18650	1855	5.93	13	PASS
64QAM	18900	1880	5.97	13	PASS
64QAM	19150	1905	5.94	13	PASS
256QAM	18650	1855	7.15	13	PASS
256QAM	18900	1880	7.08	13	PASS
256QAM	19150	1905	7.01	13	PASS



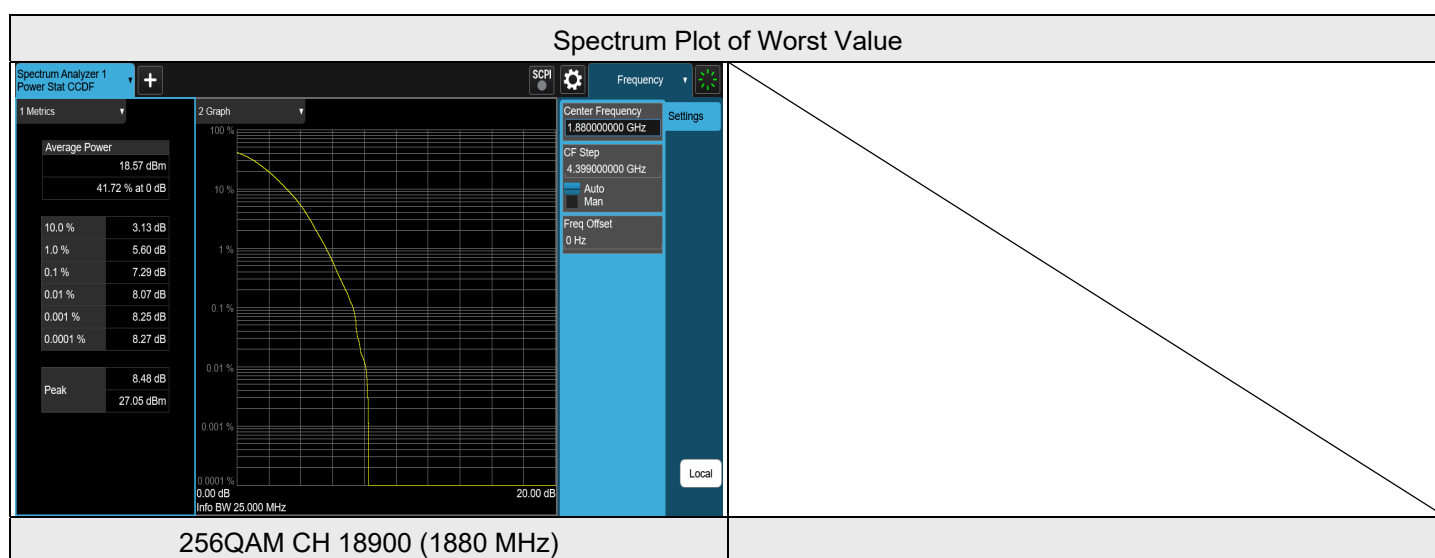
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18675	1857.5	4.12	13	PASS
QPSK	18900	1880	4.09	13	PASS
QPSK	19125	1902.5	3.98	13	PASS
16QAM	18675	1857.5	4.51	13	PASS
16QAM	18900	1880	4.61	13	PASS
16QAM	19125	1902.5	4.61	13	PASS
64QAM	18675	1857.5	5.81	13	PASS
64QAM	18900	1880	5.97	13	PASS
64QAM	19125	1902.5	5.87	13	PASS
256QAM	18675	1857.5	7.28	13	PASS
256QAM	18900	1880	7.15	13	PASS
256QAM	19125	1902.5	6.81	13	PASS



LTE Band 2, Channel Bandwidth: 20 MHz

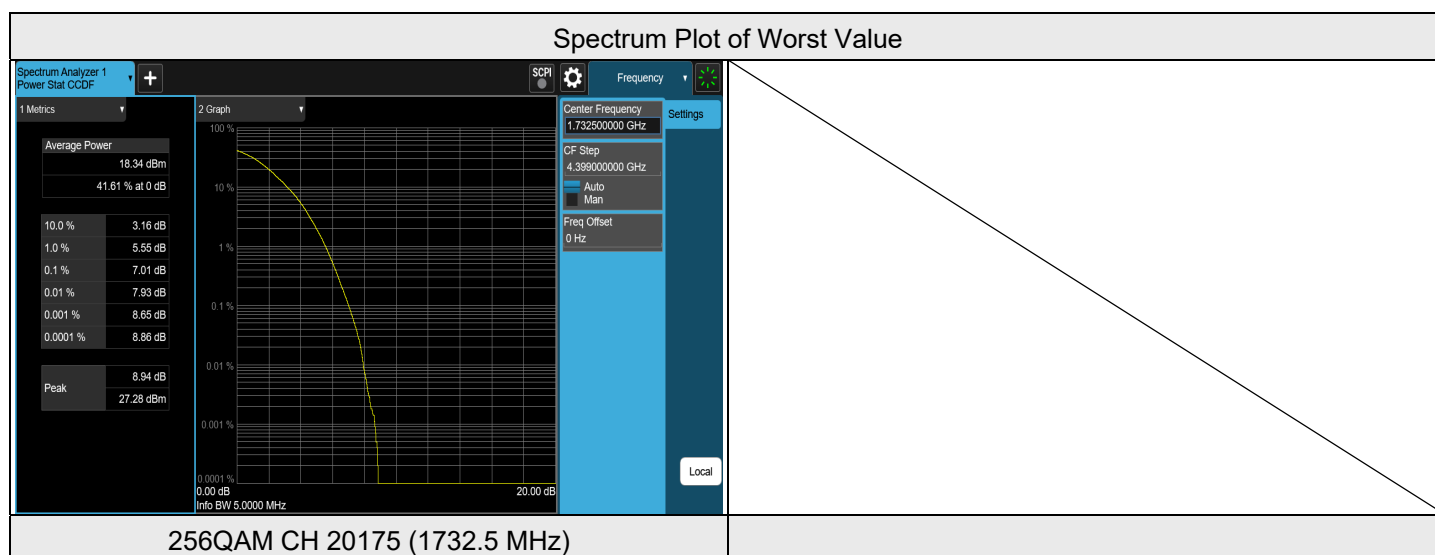
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	18700	1860	4.24	13	PASS
QPSK	18900	1880	4.15	13	PASS
QPSK	19100	1900	4.21	13	PASS
16QAM	18700	1860	4.91	13	PASS
16QAM	18900	1880	5.06	13	PASS
16QAM	19100	1900	5.11	13	PASS
64QAM	18700	1860	5.99	13	PASS
64QAM	18900	1880	6.04	13	PASS
64QAM	19100	1900	6.07	13	PASS
256QAM	18700	1860	7.26	13	PASS
256QAM	18900	1880	7.29	13	PASS
256QAM	19100	1900	6.99	13	PASS



7.3.2 LTE Band 4

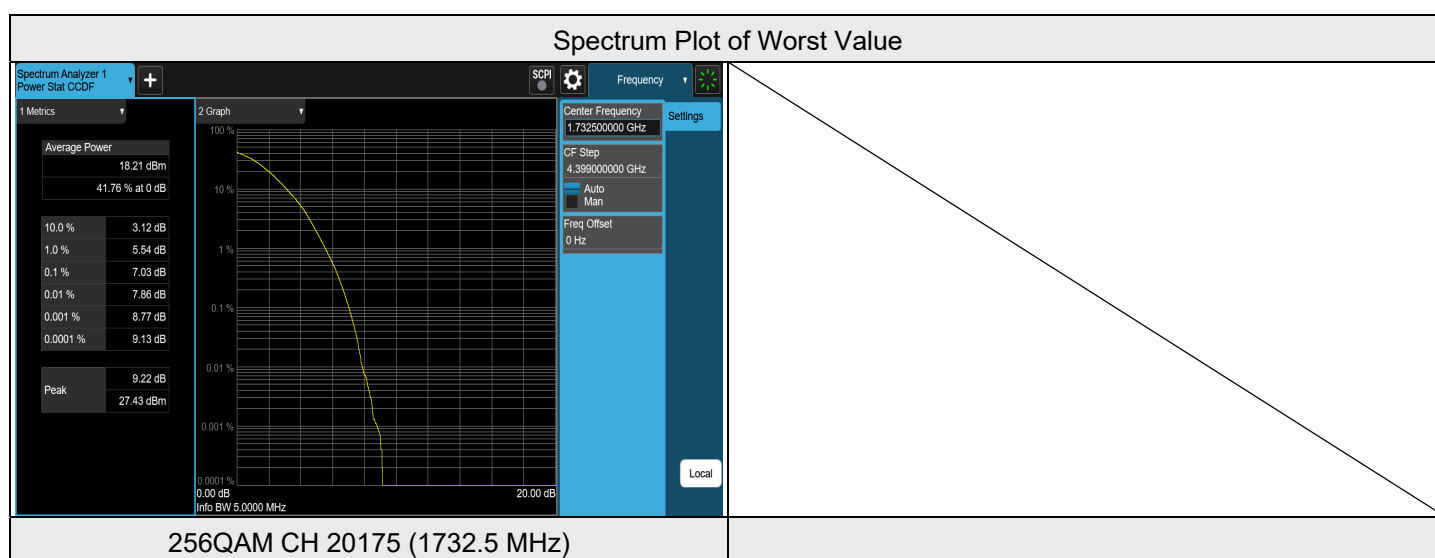
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19957	1710.7	3.72	13	PASS
QPSK	20175	1732.5	3.94	13	PASS
QPSK	20393	1754.3	3.83	13	PASS
16QAM	19957	1710.7	4.53	13	PASS
16QAM	20175	1732.5	4.68	13	PASS
16QAM	20393	1754.3	4.58	13	PASS
64QAM	19957	1710.7	4.61	13	PASS
64QAM	20175	1732.5	5.67	13	PASS
64QAM	20393	1754.3	5.55	13	PASS
256QAM	19957	1710.7	6.99	13	PASS
256QAM	20175	1732.5	7.01	13	PASS
256QAM	20393	1754.3	6.91	13	PASS



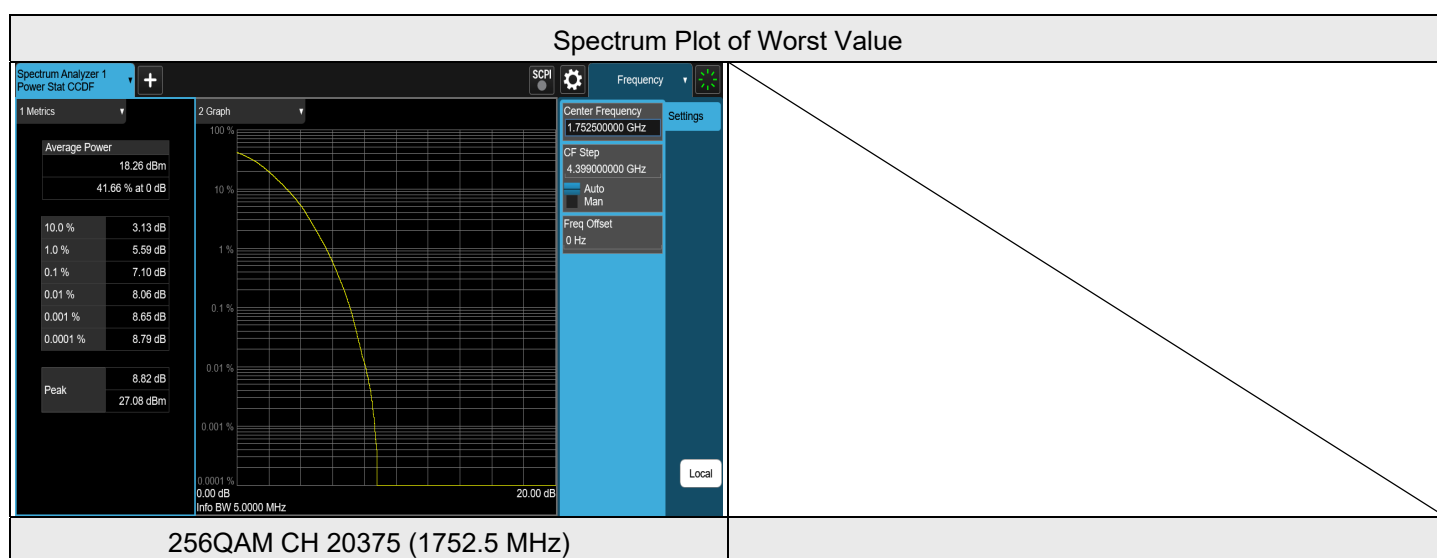
LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19965	1711.5	3.83	13	PASS
QPSK	20175	1732.5	4.05	13	PASS
QPSK	20385	1753.5	3.82	13	PASS
16QAM	19965	1711.5	4.83	13	PASS
16QAM	20175	1732.5	5.05	13	PASS
16QAM	20385	1753.5	4.84	13	PASS
64QAM	19965	1711.5	5.84	13	PASS
64QAM	20175	1732.5	6.04	13	PASS
64QAM	20385	1753.5	5.84	13	PASS
256QAM	19965	1711.5	6.98	13	PASS
256QAM	20175	1732.5	7.03	13	PASS
256QAM	20385	1753.5	6.99	13	PASS



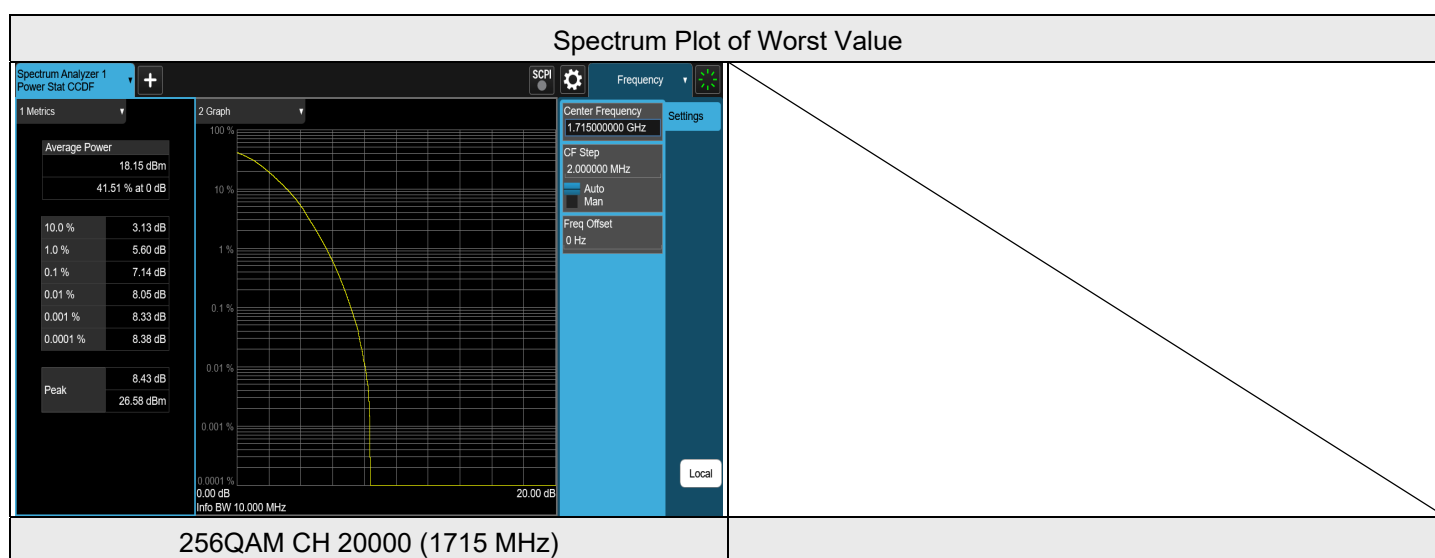
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	19975	1712.5	4.16	13	PASS
QPSK	20175	1732.5	4.34	13	PASS
QPSK	20375	1752.5	4.12	13	PASS
16QAM	19975	1712.5	4.92	13	PASS
16QAM	20175	1732.5	5.15	13	PASS
16QAM	20375	1752.5	4.89	13	PASS
64QAM	19975	1712.5	5.84	13	PASS
64QAM	20175	1732.5	6.04	13	PASS
64QAM	20375	1752.5	5.82	13	PASS
256QAM	19975	1712.5	6.98	13	PASS
256QAM	20175	1732.5	7.08	13	PASS
256QAM	20375	1752.5	7.10	13	PASS



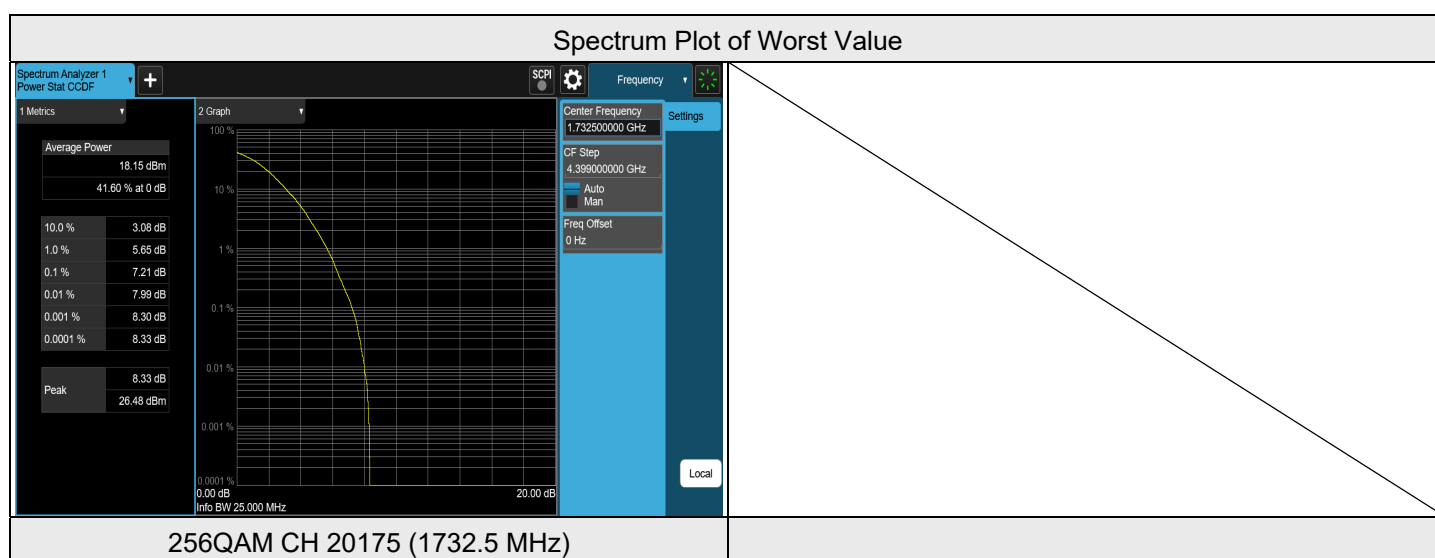
LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20000	1715	4.20	13	PASS
QPSK	20175	1732.5	4.34	13	PASS
QPSK	20350	1750	4.19	13	PASS
16QAM	20000	1715	4.91	13	PASS
16QAM	20175	1732.5	5.08	13	PASS
16QAM	20350	1750	4.93	13	PASS
64QAM	20000	1715	5.99	13	PASS
64QAM	20175	1732.5	6.14	13	PASS
64QAM	20350	1750	5.97	13	PASS
256QAM	20000	1715	7.14	13	PASS
256QAM	20175	1732.5	7.04	13	PASS
256QAM	20350	1750	6.98	13	PASS



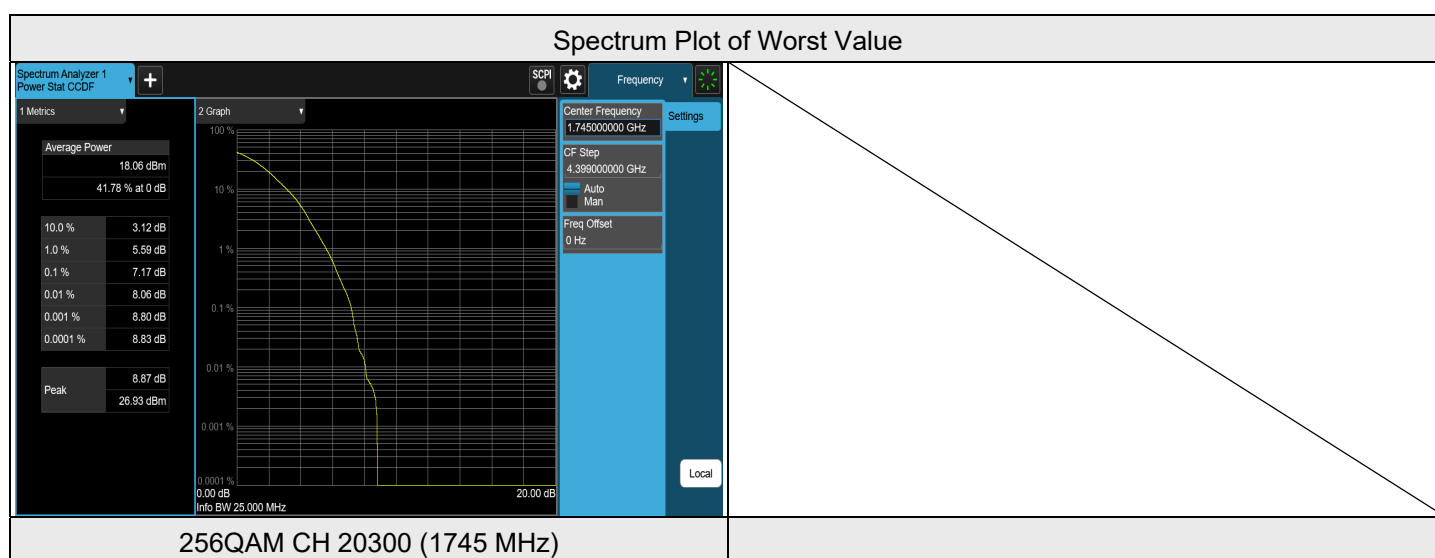
LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20025	1717.5	4.20	13	PASS
QPSK	20175	1732.5	4.35	13	PASS
QPSK	20325	1747.5	4.22	13	PASS
16QAM	20025	1717.5	4.56	13	PASS
16QAM	20175	1732.5	4.57	13	PASS
16QAM	20325	1747.5	4.52	13	PASS
64QAM	20025	1717.5	5.84	13	PASS
64QAM	20175	1732.5	5.97	13	PASS
64QAM	20325	1747.5	5.94	13	PASS
256QAM	20025	1717.5	6.75	13	PASS
256QAM	20175	1732.5	7.21	13	PASS
256QAM	20325	1747.5	6.83	13	PASS



LTE Band 4, Channel Bandwidth: 20 MHz

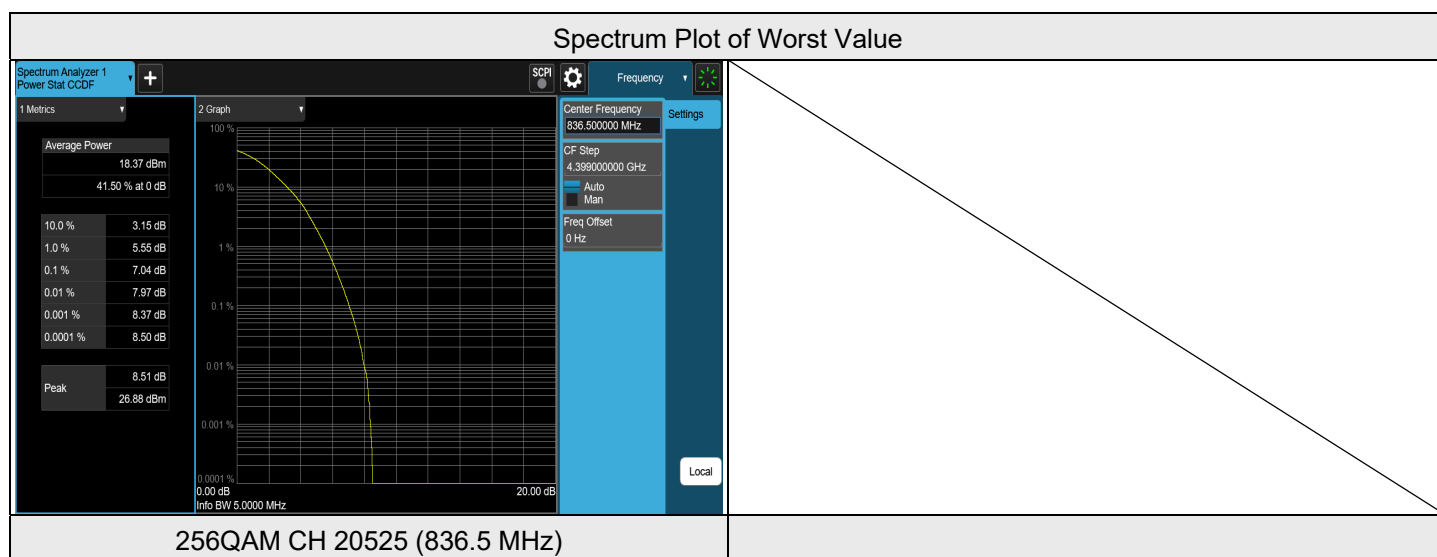
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20050	1720	4.29	13	PASS
QPSK	20175	1732.5	4.38	13	PASS
QPSK	20300	1745	4.29	13	PASS
16QAM	20050	1720	4.84	13	PASS
16QAM	20175	1732.5	4.95	13	PASS
16QAM	20300	1745	5.05	13	PASS
64QAM	20050	1720	5.95	13	PASS
64QAM	20175	1732.5	6.07	13	PASS
64QAM	20300	1745	6.15	13	PASS
256QAM	20050	1720	7.10	13	PASS
256QAM	20175	1732.5	6.89	13	PASS
256QAM	20300	1745	7.17	13	PASS



7.3.3 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

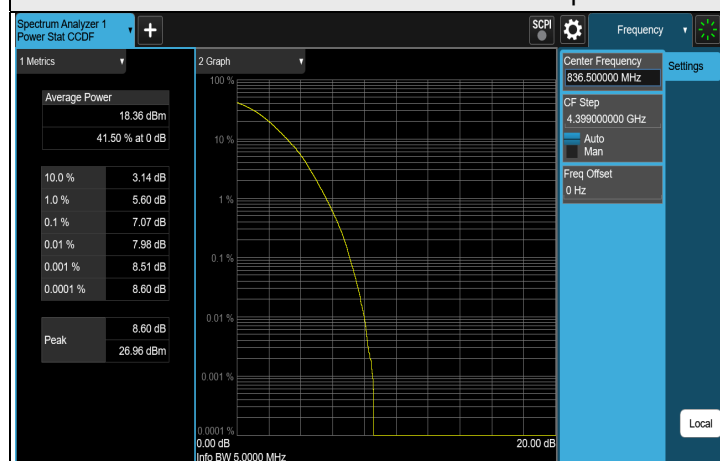
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20407	824.7	3.83	13	PASS
QPSK	20525	836.5	3.96	13	PASS
QPSK	20643	848.3	3.76	13	PASS
16QAM	20407	824.7	4.63	13	PASS
16QAM	20525	836.5	4.70	13	PASS
16QAM	20643	848.3	4.58	13	PASS
64QAM	20407	824.7	4.75	13	PASS
64QAM	20525	836.5	5.67	13	PASS
64QAM	20643	848.3	5.48	13	PASS
256QAM	20407	824.7	6.95	13	PASS
256QAM	20525	836.5	7.04	13	PASS
256QAM	20643	848.3	6.95	13	PASS



LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20415	825.5	4.03	13	PASS
QPSK	20525	836.5	3.86	13	PASS
QPSK	20635	847.5	3.48	13	PASS
16QAM	20415	825.5	5.08	13	PASS
16QAM	20525	836.5	4.90	13	PASS
16QAM	20635	847.5	4.49	13	PASS
64QAM	20415	825.5	5.96	13	PASS
64QAM	20525	836.5	5.86	13	PASS
64QAM	20635	847.5	5.41	13	PASS
256QAM	20415	825.5	6.83	13	PASS
256QAM	20525	836.5	7.07	13	PASS
256QAM	20635	847.5	6.85	13	PASS

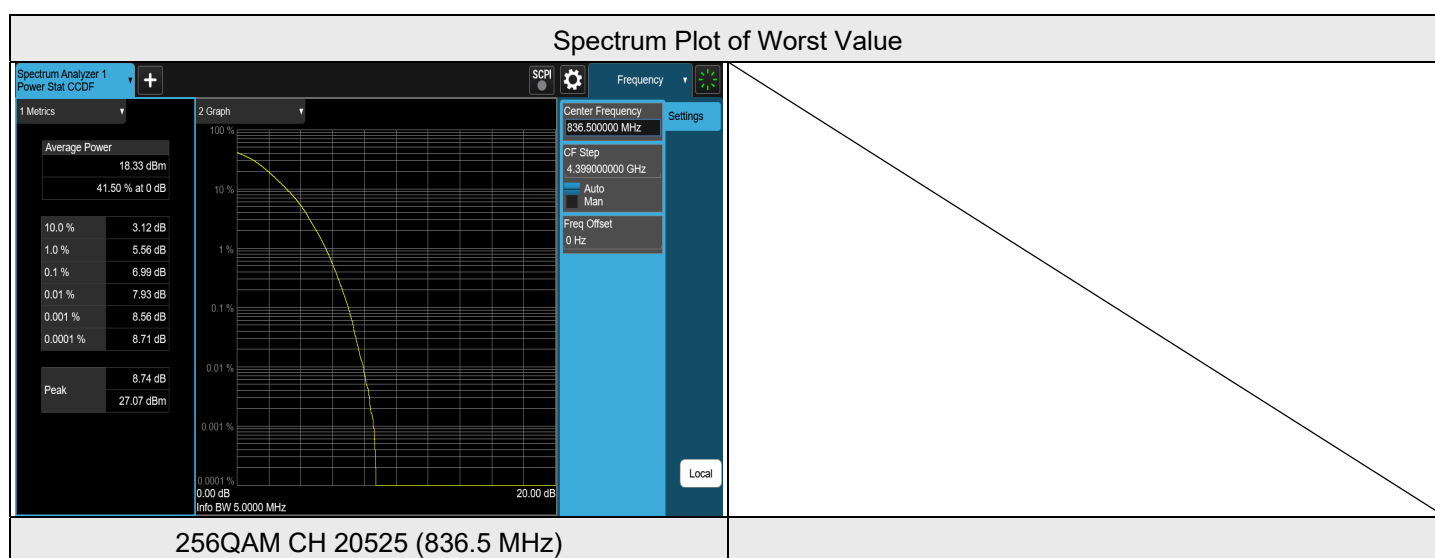
Spectrum Plot of Worst Value



256QAM CH 20525 (836.5 MHz)

LTE Band 5, Channel Bandwidth: 5 MHz

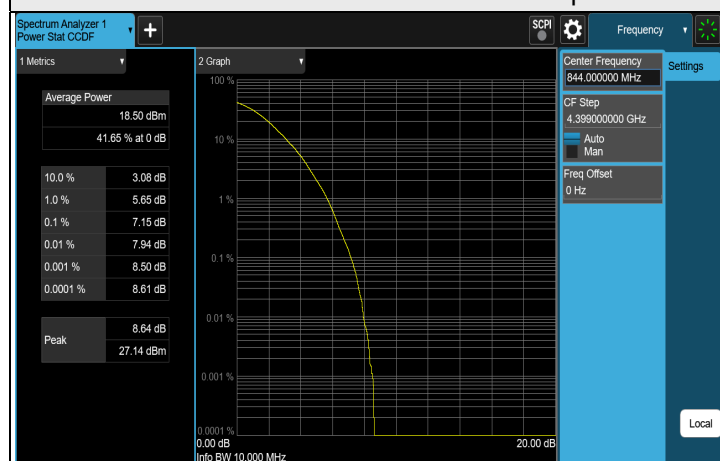
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20425	826.5	4.30	13	PASS
QPSK	20525	836.5	3.99	13	PASS
QPSK	20625	846.5	3.79	13	PASS
16QAM	20425	826.5	5.24	13	PASS
16QAM	20525	836.5	4.85	13	PASS
16QAM	20625	846.5	4.60	13	PASS
64QAM	20425	826.5	5.98	13	PASS
64QAM	20525	836.5	5.68	13	PASS
64QAM	20625	846.5	5.42	13	PASS
256QAM	20425	826.5	6.86	13	PASS
256QAM	20525	836.5	6.99	13	PASS
256QAM	20625	846.5	6.63	13	PASS



LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	20450	829	4.28	13	PASS
QPSK	20525	836.5	3.74	13	PASS
QPSK	20600	844	4.50	13	PASS
16QAM	20450	829	5.22	13	PASS
16QAM	20525	836.5	4.52	13	PASS
16QAM	20600	844	5.40	13	PASS
64QAM	20450	829	6.12	13	PASS
64QAM	20525	836.5	5.51	13	PASS
64QAM	20600	844	6.35	13	PASS
256QAM	20450	829	6.81	13	PASS
256QAM	20525	836.5	6.88	13	PASS
256QAM	20600	844	7.15	13	PASS

Spectrum Plot of Worst Value

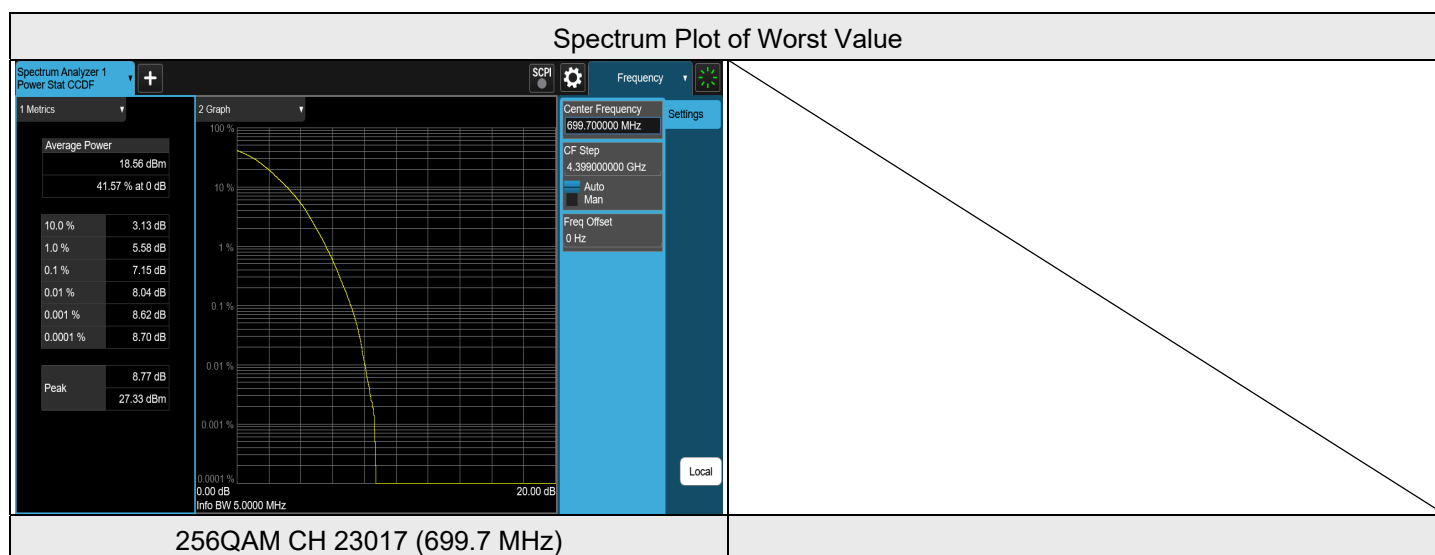


256QAM CH 20600 (844 MHz)

7.3.4 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

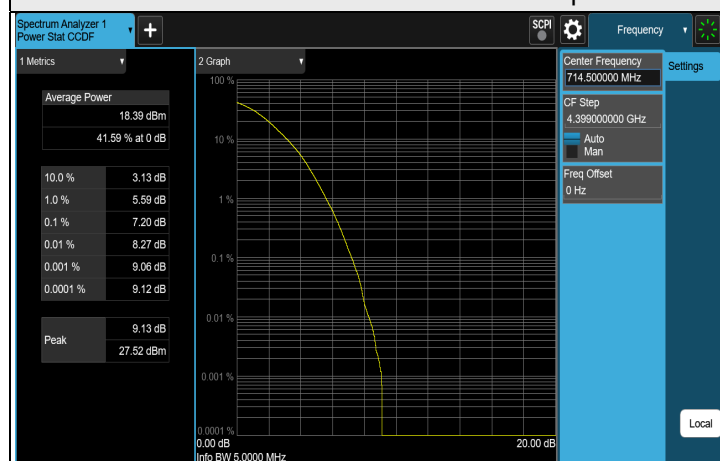
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23017	699.7	4.05	13	PASS
QPSK	23095	707.5	3.87	13	PASS
QPSK	23173	715.3	4.05	13	PASS
16QAM	23017	699.7	4.83	13	PASS
16QAM	23095	707.5	4.68	13	PASS
16QAM	23173	715.3	4.88	13	PASS
64QAM	23017	699.7	5.85	13	PASS
64QAM	23095	707.5	5.60	13	PASS
64QAM	23173	715.3	5.90	13	PASS
256QAM	23017	699.7	7.15	13	PASS
256QAM	23095	707.5	6.97	13	PASS
256QAM	23173	715.3	7.07	13	PASS



LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23025	700.5	4.15	13	PASS
QPSK	23095	707.5	3.98	13	PASS
QPSK	23165	714.5	4.20	13	PASS
16QAM	23025	700.5	5.31	13	PASS
16QAM	23095	707.5	5.04	13	PASS
16QAM	23165	714.5	5.34	13	PASS
64QAM	23025	700.5	6.27	13	PASS
64QAM	23095	707.5	5.97	13	PASS
64QAM	23165	714.5	6.34	13	PASS
256QAM	23025	700.5	7.09	13	PASS
256QAM	23095	707.5	6.98	13	PASS
256QAM	23165	714.5	7.20	13	PASS

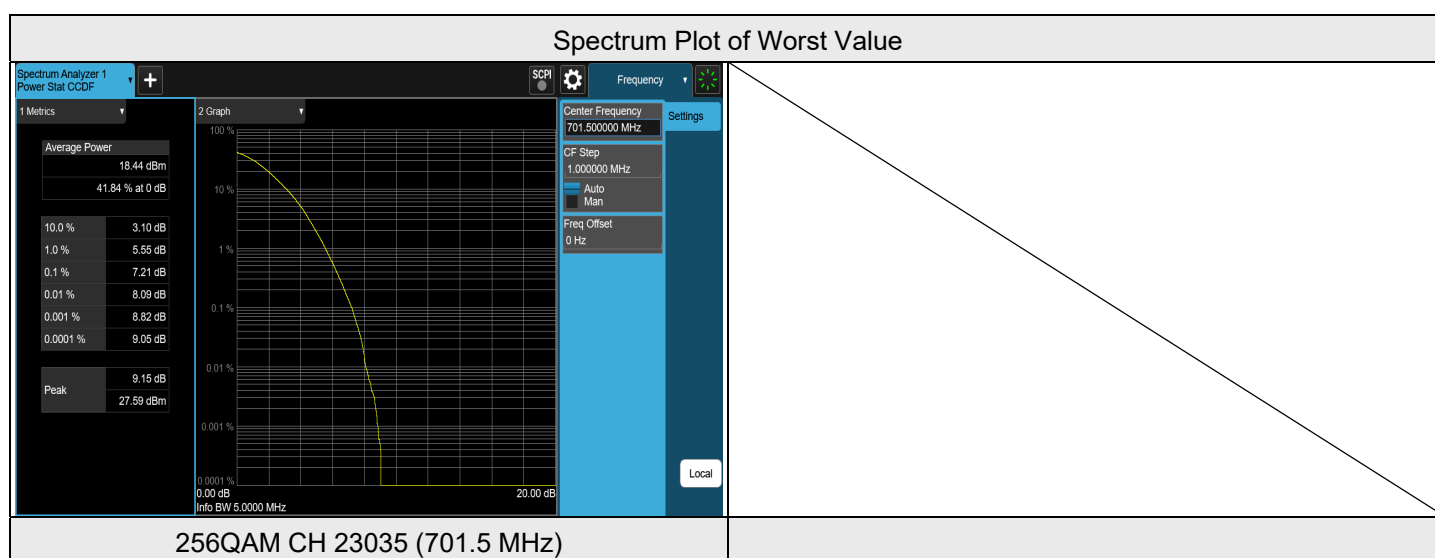
Spectrum Plot of Worst Value



256QAM CH 23165 (714.5 MHz)

LTE Band 12, Channel Bandwidth: 5 MHz

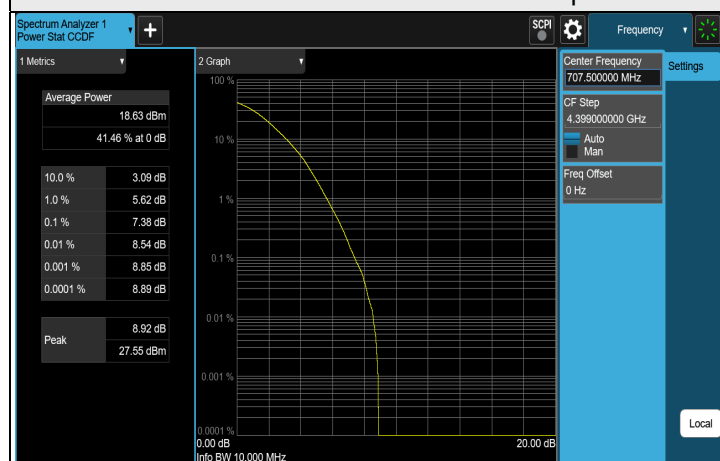
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23035	701.5	4.65	13	PASS
QPSK	23095	707.5	4.33	13	PASS
QPSK	23155	713.5	4.52	13	PASS
16QAM	23035	701.5	5.49	13	PASS
16QAM	23095	707.5	5.15	13	PASS
16QAM	23155	713.5	5.55	13	PASS
64QAM	23035	701.5	6.25	13	PASS
64QAM	23095	707.5	6.07	13	PASS
64QAM	23155	713.5	6.33	13	PASS
256QAM	23035	701.5	7.21	13	PASS
256QAM	23095	707.5	7.10	13	PASS
256QAM	23155	713.5	7.11	13	PASS



LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23060	704	4.63	13	PASS
QPSK	23095	707.5	4.64	13	PASS
QPSK	23130	711	4.25	13	PASS
16QAM	23060	704	5.60	13	PASS
16QAM	23095	707.5	5.46	13	PASS
16QAM	23130	711	5.07	13	PASS
64QAM	23060	704	6.43	13	PASS
64QAM	23095	707.5	6.56	13	PASS
64QAM	23130	711	6.10	13	PASS
256QAM	23060	704	7.22	13	PASS
256QAM	23095	707.5	7.38	13	PASS
256QAM	23130	711	6.83	13	PASS

Spectrum Plot of Worst Value

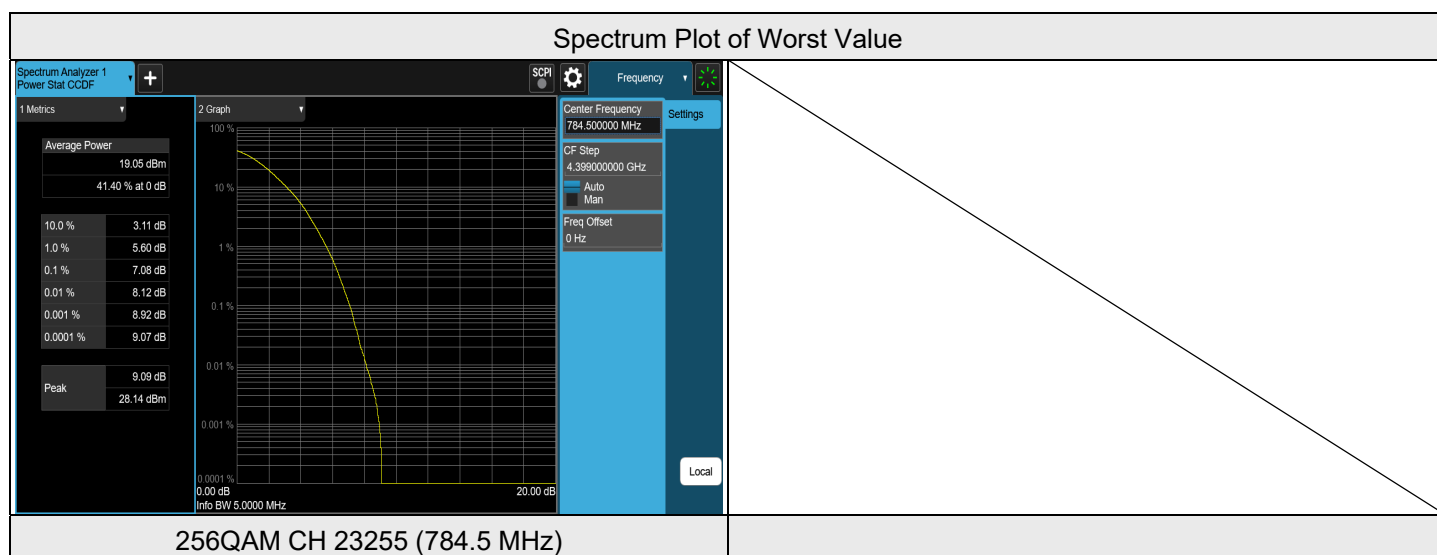


256QAM CH 23095 (707.5 MHz)

7.3.5 LTE Band 13

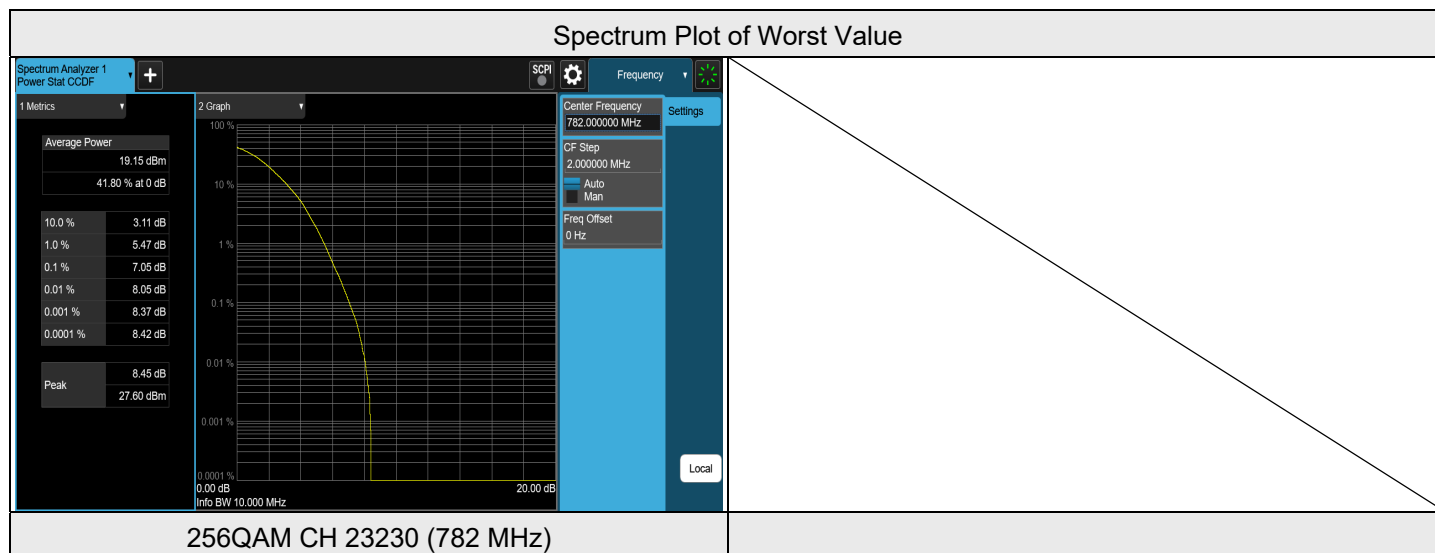
LTE Band 13, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23205	779.5	4.35	13	PASS
QPSK	23230	782	4.16	13	PASS
QPSK	23255	784.5	4.41	13	PASS
16QAM	23205	779.5	5.12	13	PASS
16QAM	23230	782	4.98	13	PASS
16QAM	23255	784.5	5.24	13	PASS
64QAM	23205	779.5	5.93	13	PASS
64QAM	23230	782	5.85	13	PASS
64QAM	23255	784.5	6.14	13	PASS
256QAM	23205	779.5	6.94	13	PASS
256QAM	23230	782	6.81	13	PASS
256QAM	23255	784.5	7.08	13	PASS



LTE Band 13, Channel Bandwidth: 10 MHz

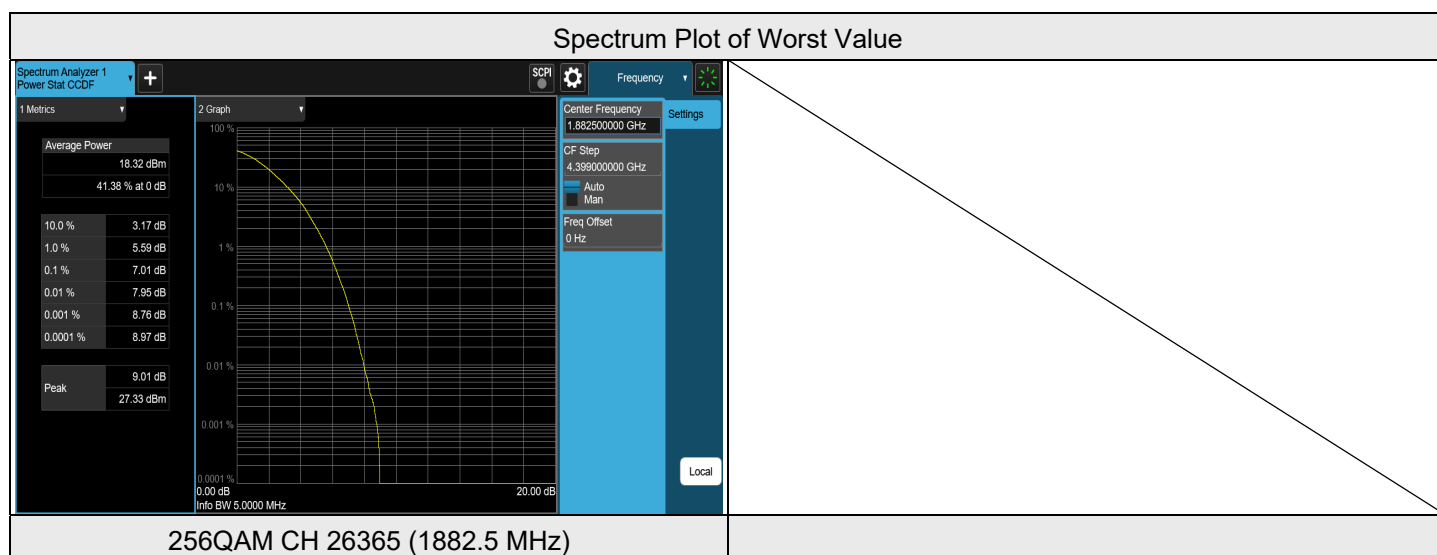
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	23230	782	4.50	13	PASS
16QAM	23230	782	5.19	13	PASS
64QAM	23230	782	6.19	13	PASS
256QAM	23230	782	7.05	13	PASS



7.3.6 LTE Band 25

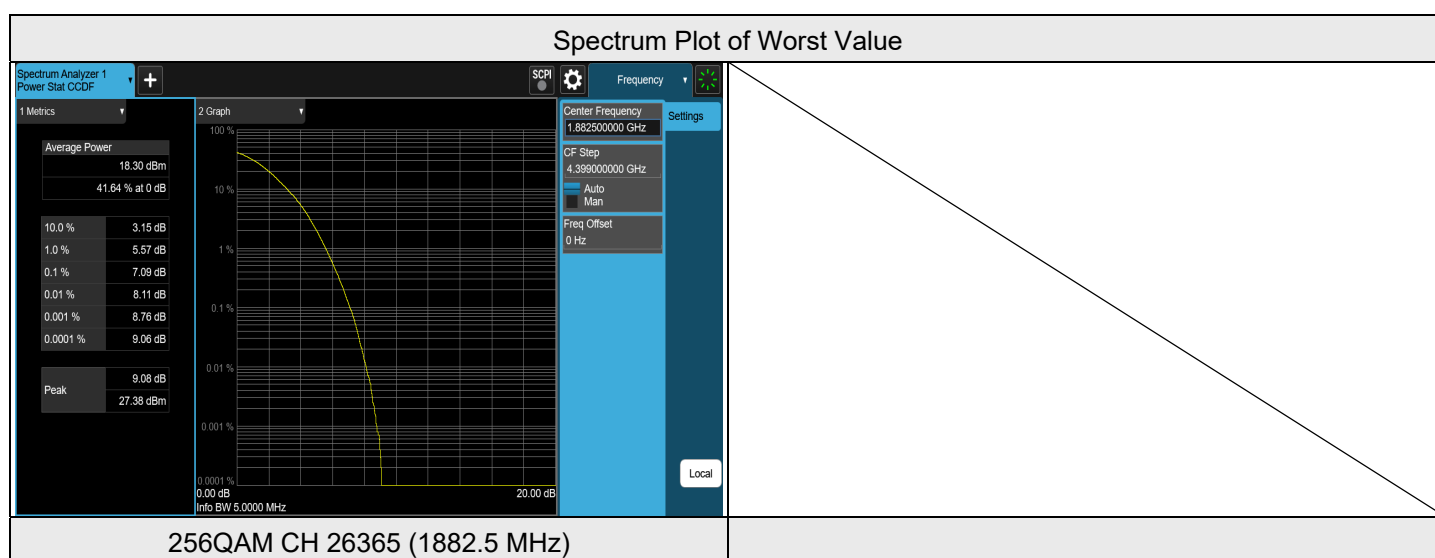
LTE Band 25, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26047	1850.7	3.74	13	PASS
QPSK	26365	1882.5	3.87	13	PASS
QPSK	26683	1914.3	3.17	13	PASS
16QAM	26047	1850.7	4.49	13	PASS
16QAM	26365	1882.5	4.64	13	PASS
16QAM	26683	1914.3	3.89	13	PASS
64QAM	26047	1850.7	4.64	13	PASS
64QAM	26365	1882.5	4.69	13	PASS
64QAM	26683	1914.3	4.05	13	PASS
256QAM	26047	1850.7	6.97	13	PASS
256QAM	26365	1882.5	7.01	13	PASS
256QAM	26683	1914.3	6.86	13	PASS



LTE Band 25, Channel Bandwidth: 3 MHz

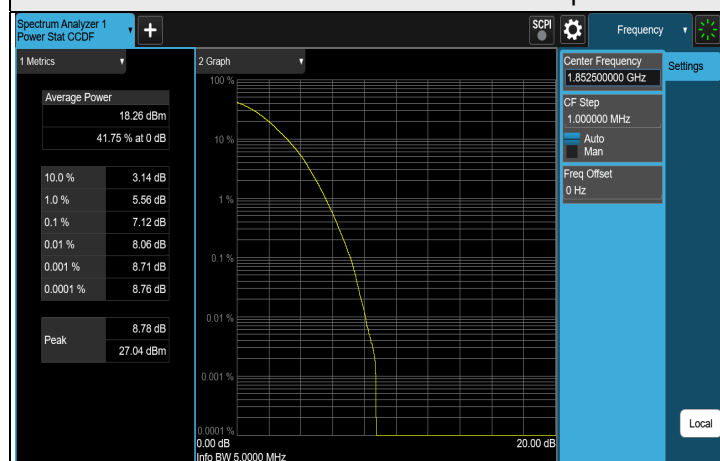
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26055	1851.5	3.82	13	PASS
QPSK	26365	1882.5	3.87	13	PASS
QPSK	26675	1913.5	3.39	13	PASS
16QAM	26055	1851.5	4.82	13	PASS
16QAM	26365	1882.5	4.92	13	PASS
16QAM	26675	1913.5	4.30	13	PASS
64QAM	26055	1851.5	5.83	13	PASS
64QAM	26365	1882.5	5.91	13	PASS
64QAM	26675	1913.5	5.34	13	PASS
256QAM	26055	1851.5	7.05	13	PASS
256QAM	26365	1882.5	7.09	13	PASS
256QAM	26675	1913.5	6.86	13	PASS



LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26065	1852.5	4.14	13	PASS
QPSK	26365	1882.5	4.20	13	PASS
QPSK	26665	1912.5	3.95	13	PASS
16QAM	26065	1852.5	4.89	13	PASS
16QAM	26365	1882.5	4.95	13	PASS
16QAM	26665	1912.5	4.72	13	PASS
64QAM	26065	1852.5	5.80	13	PASS
64QAM	26365	1882.5	5.93	13	PASS
64QAM	26665	1912.5	5.61	13	PASS
256QAM	26065	1852.5	7.12	13	PASS
256QAM	26365	1882.5	7.07	13	PASS
256QAM	26665	1912.5	6.96	13	PASS

Spectrum Plot of Worst Value

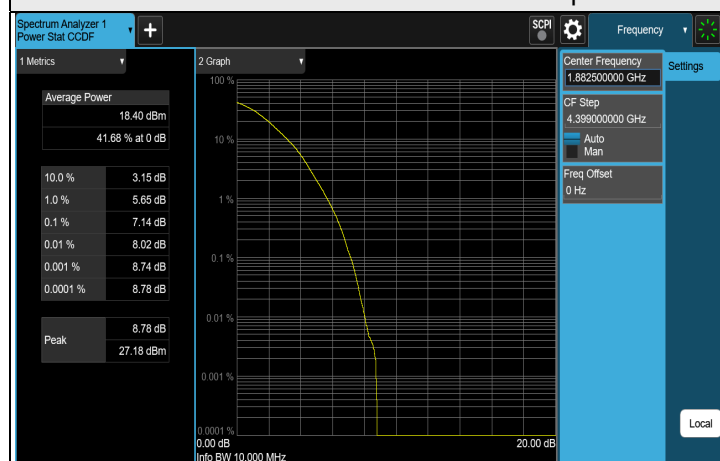


256QAM CH 26065 (1852.5 MHz)

LTE Band 25, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26090	1855	4.12	13	PASS
QPSK	26365	1882.5	4.15	13	PASS
QPSK	26640	1910	4.24	13	PASS
16QAM	26090	1855	4.89	13	PASS
16QAM	26365	1882.5	4.95	13	PASS
16QAM	26640	1910	5.01	13	PASS
64QAM	26090	1855	5.96	13	PASS
64QAM	26365	1882.5	5.99	13	PASS
64QAM	26640	1910	6.08	13	PASS
256QAM	26090	1855	6.94	13	PASS
256QAM	26365	1882.5	7.14	13	PASS
256QAM	26640	1910	7.13	13	PASS

Spectrum Plot of Worst Value

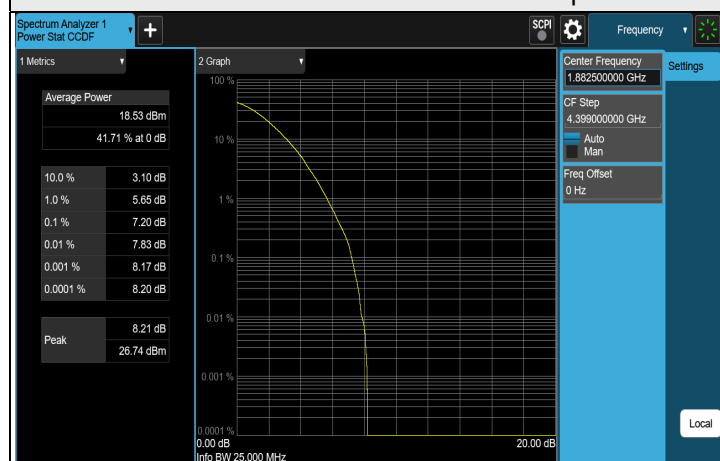


256QAM CH 26365 (1882.5 MHz)

LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26115	1857.5	3.98	13	PASS
QPSK	26365	1882.5	4.12	13	PASS
QPSK	26615	1907.5	4.02	13	PASS
16QAM	26115	1857.5	4.52	13	PASS
16QAM	26365	1882.5	4.53	13	PASS
16QAM	26615	1907.5	4.69	13	PASS
64QAM	26115	1857.5	5.84	13	PASS
64QAM	26365	1882.5	5.86	13	PASS
64QAM	26615	1907.5	5.79	13	PASS
256QAM	26115	1857.5	6.90	13	PASS
256QAM	26365	1882.5	7.20	13	PASS
256QAM	26615	1907.5	6.80	13	PASS

Spectrum Plot of Worst Value

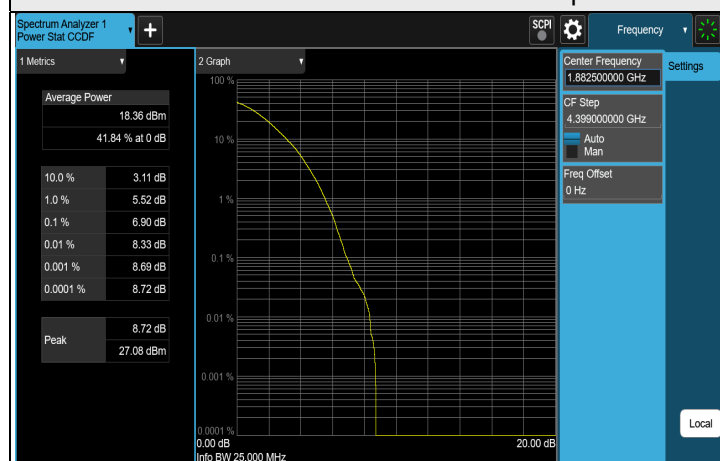


256QAM CH 26365 (1882.5 MHz)

LTE Band 25, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26140	1860	4.25	13	PASS
QPSK	26365	1882.5	4.11	13	PASS
QPSK	26590	1905	4.10	13	PASS
16QAM	26140	1860	4.90	13	PASS
16QAM	26365	1882.5	4.83	13	PASS
16QAM	26590	1905	4.96	13	PASS
64QAM	26140	1860	6.01	13	PASS
64QAM	26365	1882.5	5.84	13	PASS
64QAM	26590	1905	5.86	13	PASS
256QAM	26140	1860	6.89	13	PASS
256QAM	26365	1882.5	6.90	13	PASS
256QAM	26590	1905	6.79	13	PASS

Spectrum Plot of Worst Value

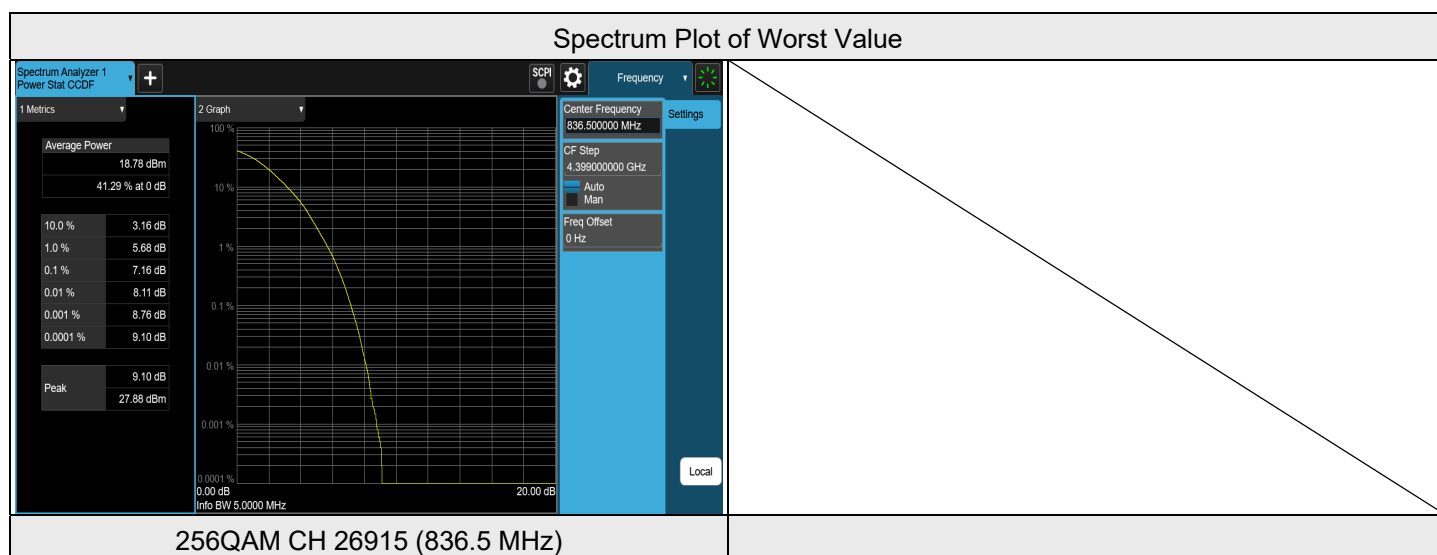


256QAM CH 26365 (1882.5 MHz)

7.3.7 LTE Band 26 (824 MHz ~ 849 MHz)

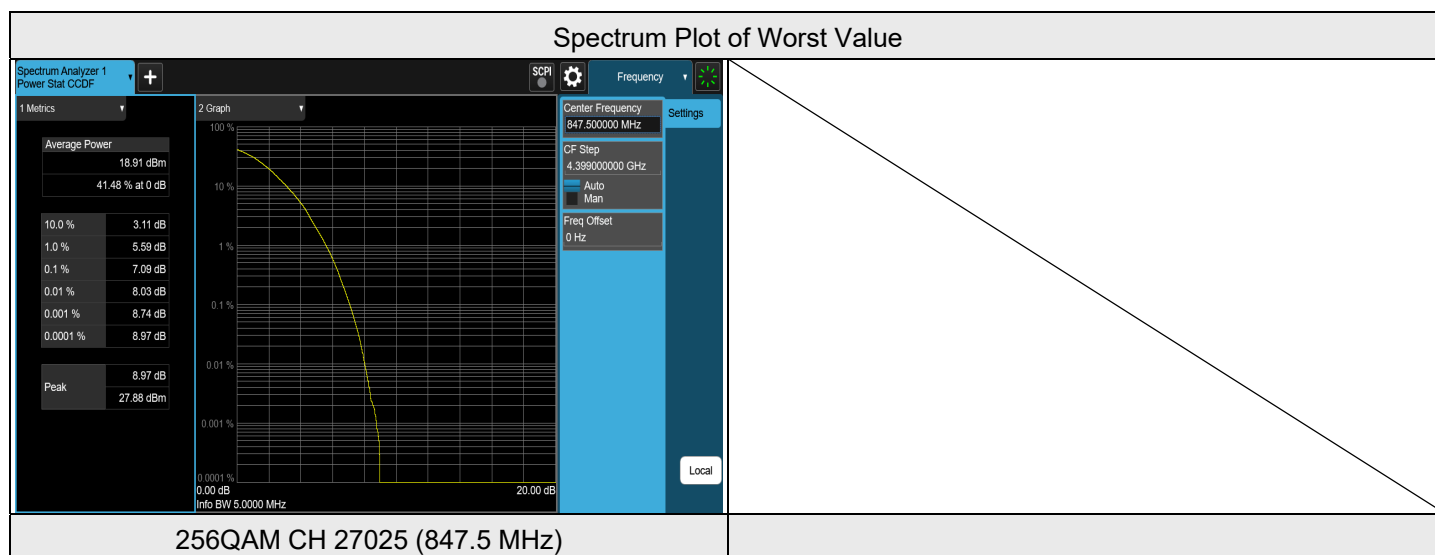
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26797	824.7	4.81	13	PASS
QPSK	26915	836.5	4.81	13	PASS
QPSK	27033	848.3	4.60	13	PASS
16QAM	26797	824.7	5.61	13	PASS
16QAM	26915	836.5	5.63	13	PASS
16QAM	27033	848.3	5.33	13	PASS
64QAM	26797	824.7	6.57	13	PASS
64QAM	26915	836.5	6.59	13	PASS
64QAM	27033	848.3	6.35	13	PASS
256QAM	26797	824.7	7.06	13	PASS
256QAM	26915	836.5	7.16	13	PASS
256QAM	27033	848.3	7.14	13	PASS



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz

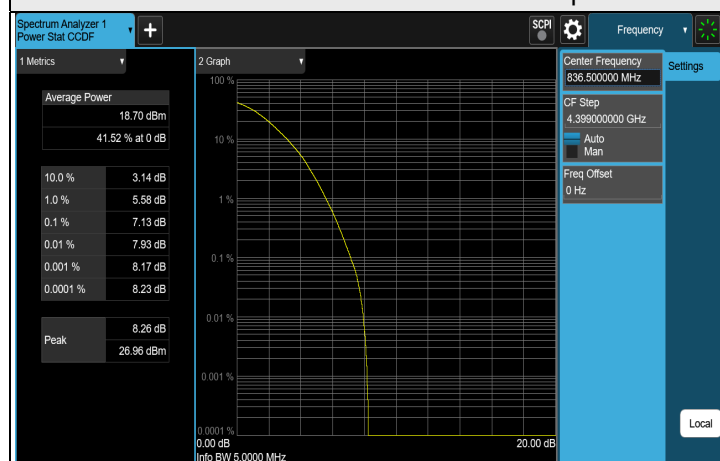
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26805	825.5	4.07	13	PASS
QPSK	26915	836.5	4.04	13	PASS
QPSK	27025	847.5	3.80	13	PASS
16QAM	26805	825.5	5.19	13	PASS
16QAM	26915	836.5	5.18	13	PASS
16QAM	27025	847.5	4.86	13	PASS
64QAM	26805	825.5	6.14	13	PASS
64QAM	26915	836.5	6.09	13	PASS
64QAM	27025	847.5	5.77	13	PASS
256QAM	26805	825.5	7.08	13	PASS
256QAM	26915	836.5	7.07	13	PASS
256QAM	27025	847.5	7.09	13	PASS



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26815	826.5	4.45	13	PASS
QPSK	26915	836.5	4.31	13	PASS
QPSK	27015	846.5	4.12	13	PASS
16QAM	26815	826.5	5.32	13	PASS
16QAM	26915	836.5	5.15	13	PASS
16QAM	27015	846.5	5.02	13	PASS
64QAM	26815	826.5	6.12	13	PASS
64QAM	26915	836.5	6.01	13	PASS
64QAM	27015	846.5	5.77	13	PASS
256QAM	26815	826.5	6.94	13	PASS
256QAM	26915	836.5	7.13	13	PASS
256QAM	27015	846.5	6.88	13	PASS

Spectrum Plot of Worst Value

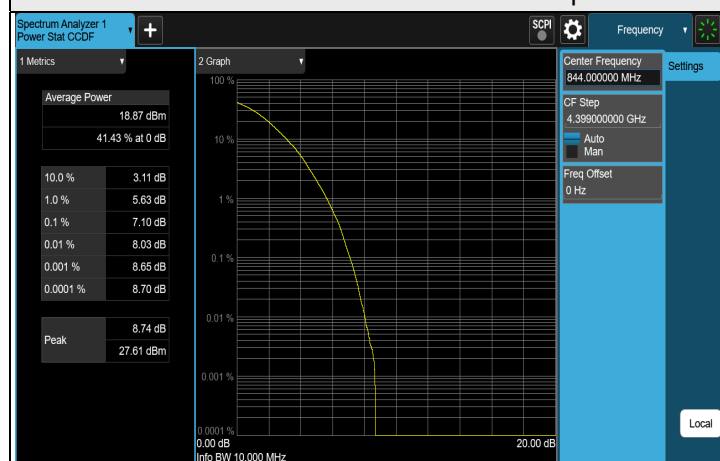


256QAM CH 26915 (836.5 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26840	829	4.51	13	PASS
QPSK	26915	836.5	4.13	13	PASS
QPSK	26990	844	4.64	13	PASS
16QAM	26840	829	5.38	13	PASS
16QAM	26915	836.5	4.99	13	PASS
16QAM	26990	844	5.47	13	PASS
64QAM	26840	829	6.28	13	PASS
64QAM	26915	836.5	5.93	13	PASS
64QAM	26990	844	6.45	13	PASS
256QAM	26840	829	6.92	13	PASS
256QAM	26915	836.5	6.85	13	PASS
256QAM	26990	844	7.10	13	PASS

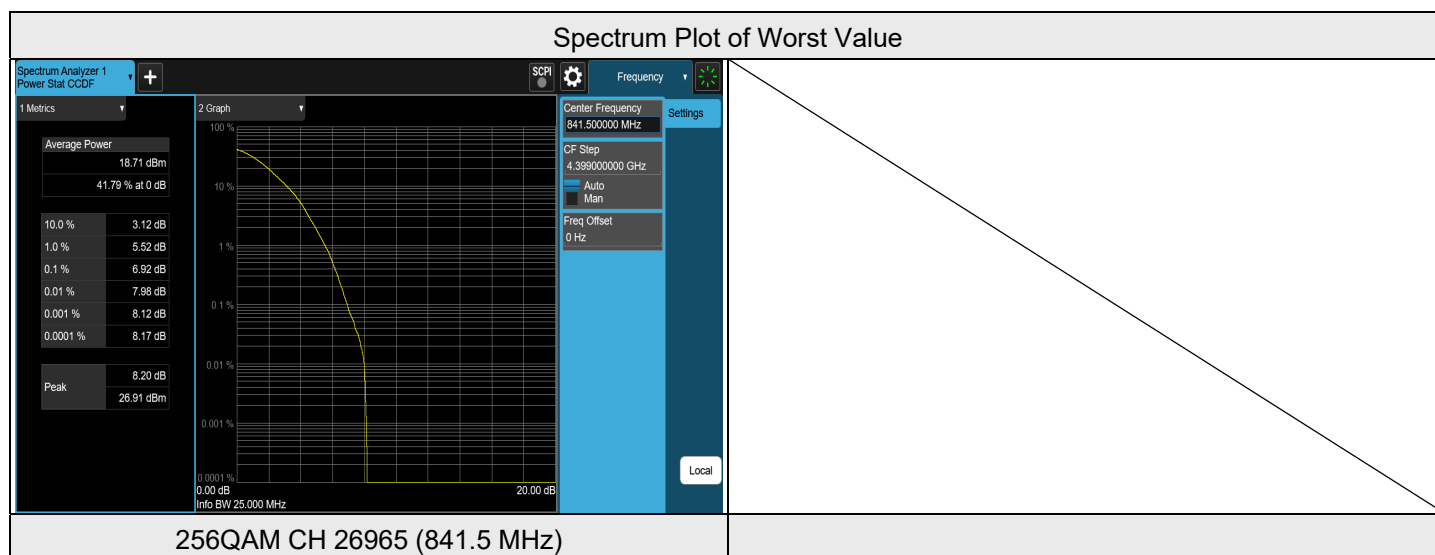
Spectrum Plot of Worst Value



256QAM CH 26990 (844 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz

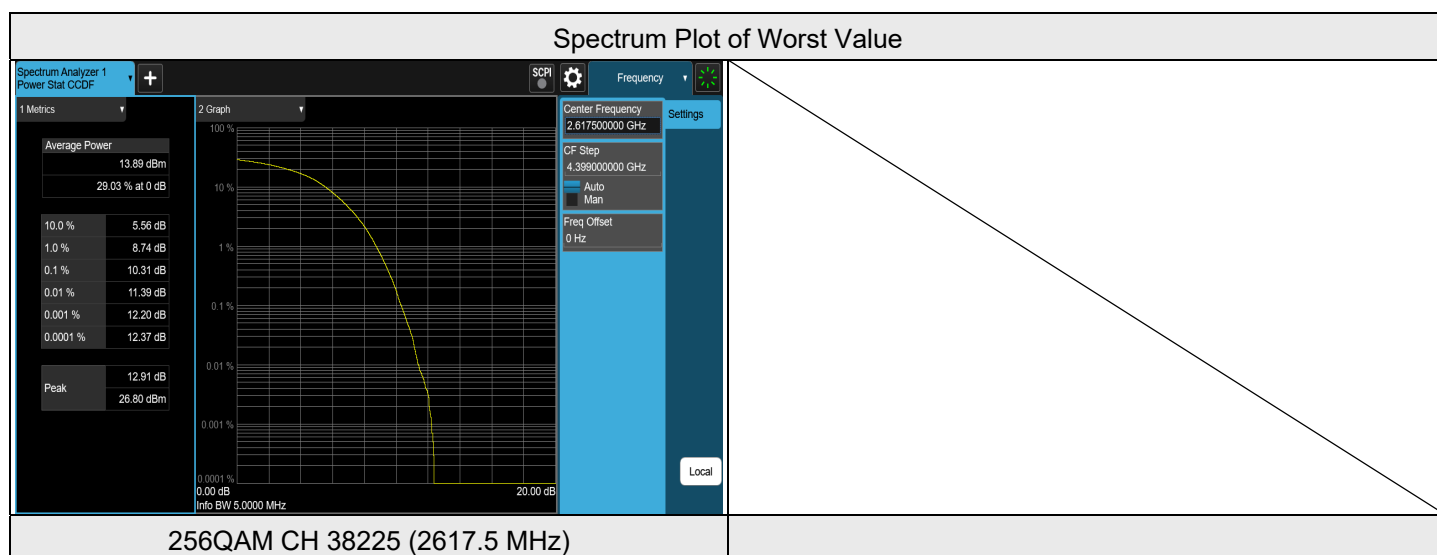
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	26865	831.5	4.51	13	PASS
QPSK	26915	836.5	4.05	13	PASS
QPSK	26965	841.5	4.41	13	PASS
16QAM	26865	831.5	4.73	13	PASS
16QAM	26915	836.5	4.79	13	PASS
16QAM	26965	841.5	5.03	13	PASS
64QAM	26865	831.5	6.13	13	PASS
64QAM	26915	836.5	5.80	13	PASS
64QAM	26965	841.5	6.04	13	PASS
256QAM	26865	831.5	6.73	13	PASS
256QAM	26915	836.5	6.83	13	PASS
256QAM	26965	841.5	6.92	13	PASS



7.3.8 LTE Band 38

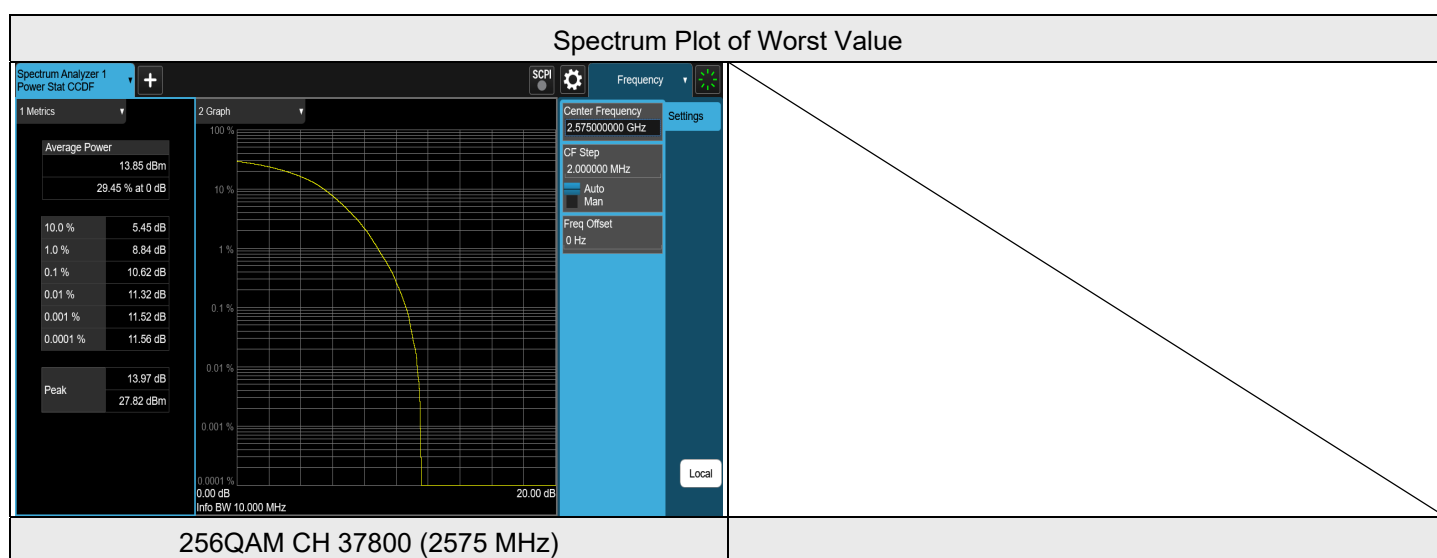
LTE Band 38, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37775	2572.5	7.48	13	PASS
QPSK	38000	2595	7.57	13	PASS
QPSK	38225	2617.5	7.85	13	PASS
16QAM	37775	2572.5	8.19	13	PASS
16QAM	38000	2595	8.48	13	PASS
16QAM	38225	2617.5	8.56	13	PASS
64QAM	37775	2572.5	9.14	13	PASS
64QAM	38000	2595	9.39	13	PASS
64QAM	38225	2617.5	9.42	13	PASS
256QAM	37775	2572.5	10.26	13	PASS
256QAM	38000	2595	10.19	13	PASS
256QAM	38225	2617.5	10.31	13	PASS



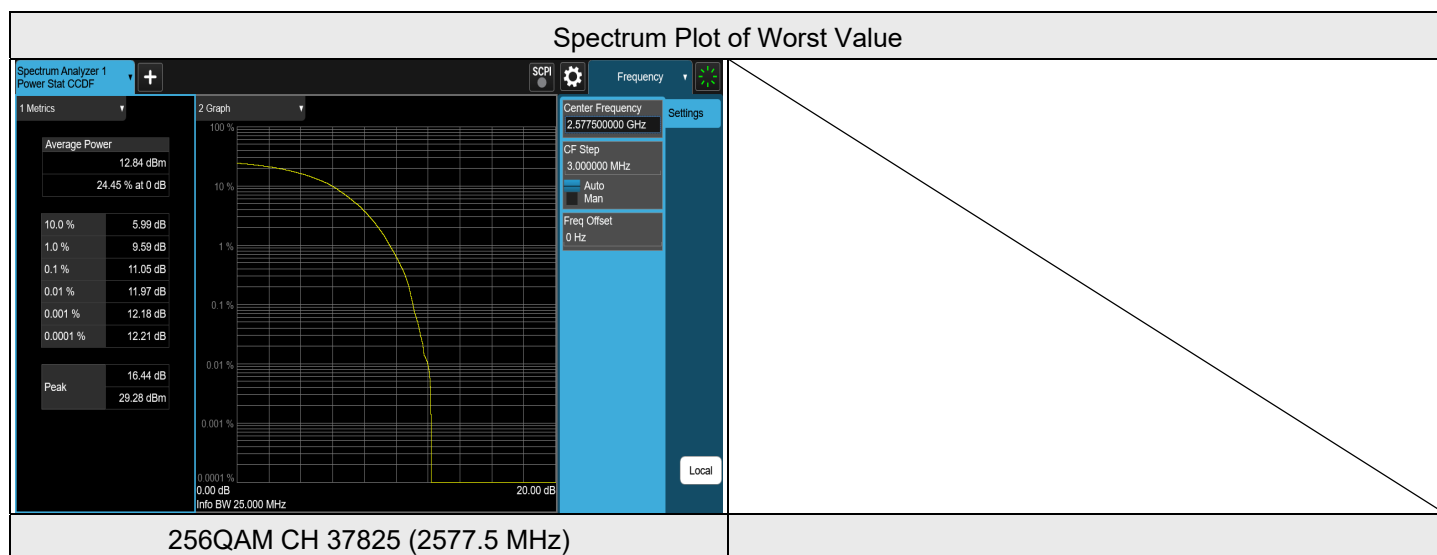
LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37800	2575	7.51	13	PASS
QPSK	38000	2595	7.80	13	PASS
QPSK	38200	2615	7.75	13	PASS
16QAM	37800	2575	8.21	13	PASS
16QAM	38000	2595	8.43	13	PASS
16QAM	38200	2615	8.62	13	PASS
64QAM	37800	2575	8.59	13	PASS
64QAM	38000	2595	9.32	13	PASS
64QAM	38200	2615	9.42	13	PASS
256QAM	37800	2575	10.62	13	PASS
256QAM	38000	2595	10.01	13	PASS
256QAM	38200	2615	10.47	13	PASS



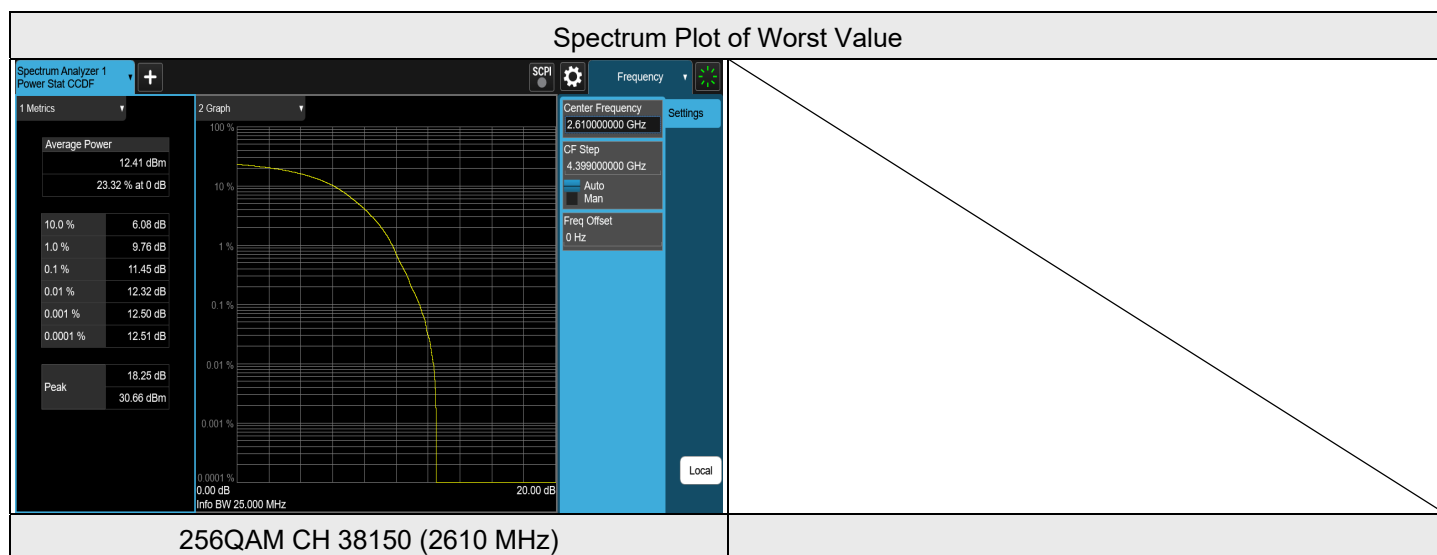
LTE Band 38, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37825	2577.5	8.03	13	PASS
QPSK	38000	2595	7.90	13	PASS
QPSK	38175	2612.5	7.46	13	PASS
16QAM	37825	2577.5	8.32	13	PASS
16QAM	38000	2595	7.79	13	PASS
16QAM	38175	2612.5	9.23	13	PASS
64QAM	37825	2577.5	10.65	13	PASS
64QAM	38000	2595	8.74	13	PASS
64QAM	38175	2612.5	9.70	13	PASS
256QAM	37825	2577.5	11.05	13	PASS
256QAM	38000	2595	10.79	13	PASS
256QAM	38175	2612.5	10.94	13	PASS



LTE Band 38, Channel Bandwidth: 20 MHz

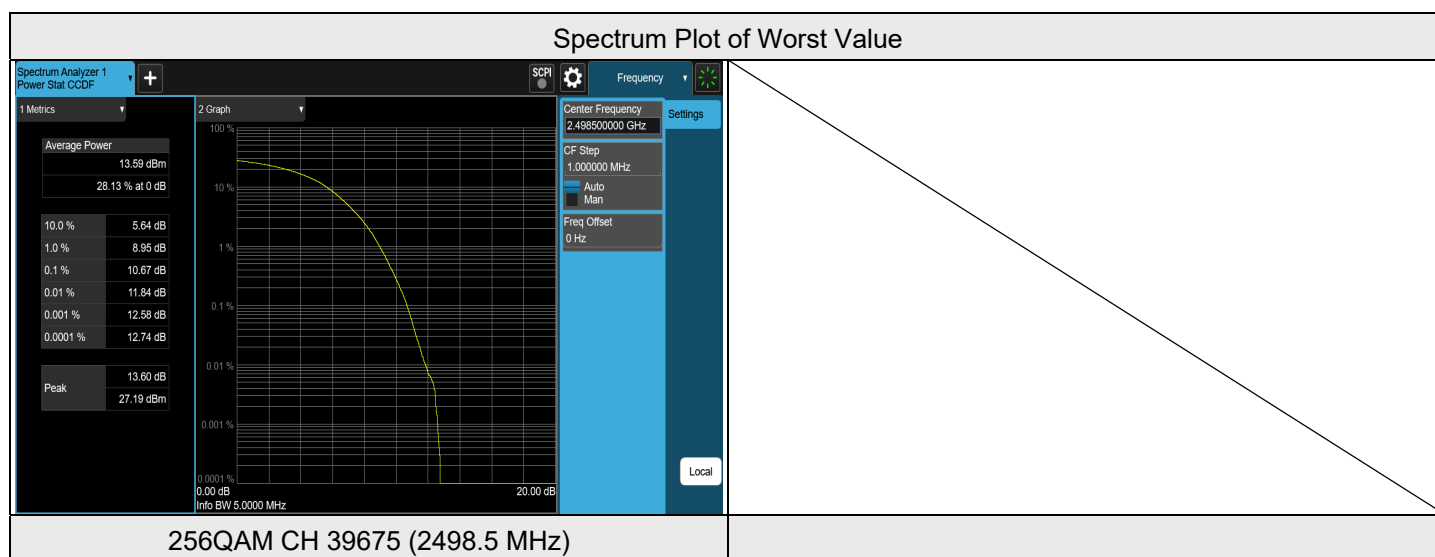
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	37850	2580	6.70	13	PASS
QPSK	38000	2595	7.14	13	PASS
QPSK	38150	2610	8.28	13	PASS
16QAM	37850	2580	7.70	13	PASS
16QAM	38000	2595	8.55	13	PASS
16QAM	38150	2610	8.32	13	PASS
64QAM	37850	2580	8.99	13	PASS
64QAM	38000	2595	10.49	13	PASS
64QAM	38150	2610	9.48	13	PASS
256QAM	37850	2580	10.39	13	PASS
256QAM	38000	2595	10.37	13	PASS
256QAM	38150	2610	11.45	13	PASS



7.3.9 LTE Band 41

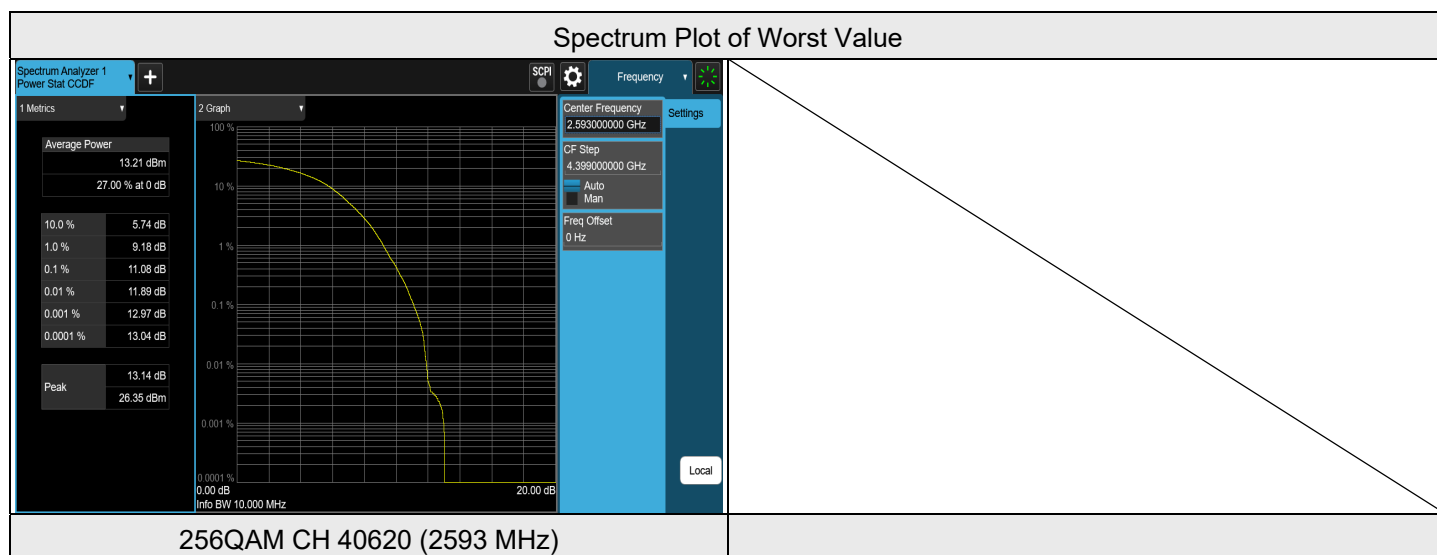
LTE Band 41, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39675	2498.5	7.64	13	PASS
QPSK	40620	2593	7.90	13	PASS
QPSK	41565	2687.5	7.63	13	PASS
16QAM	39675	2498.5	8.48	13	PASS
16QAM	40620	2593	8.60	13	PASS
16QAM	41565	2687.5	8.45	13	PASS
64QAM	39675	2498.5	9.59	13	PASS
64QAM	40620	2593	9.33	13	PASS
64QAM	41565	2687.5	9.26	13	PASS
256QAM	39675	2498.5	10.67	13	PASS
256QAM	40620	2593	10.33	13	PASS
256QAM	41565	2687.5	10.22	13	PASS



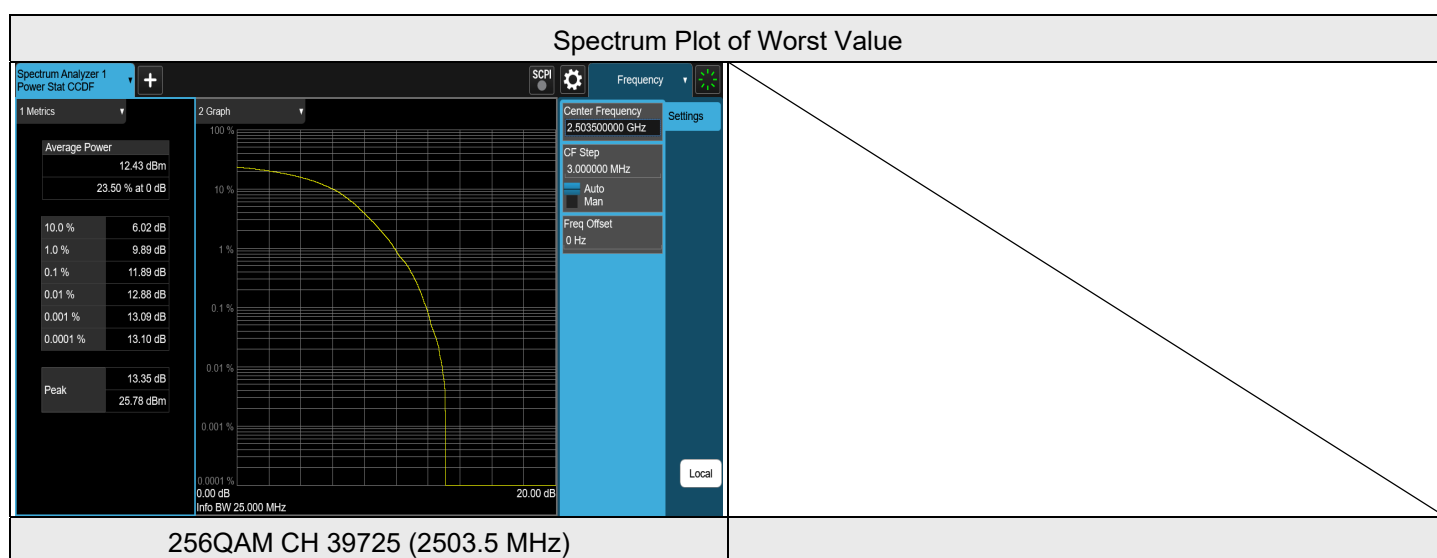
LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39700	2501	7.81	13	PASS
QPSK	40620	2593	8.07	13	PASS
QPSK	41540	2685	8.13	13	PASS
16QAM	39700	2501	8.38	13	PASS
16QAM	40620	2593	8.62	13	PASS
16QAM	41540	2685	9.02	13	PASS
64QAM	39700	2501	9.08	13	PASS
64QAM	40620	2593	9.46	13	PASS
64QAM	41540	2685	9.00	13	PASS
256QAM	39700	2501	10.46	13	PASS
256QAM	40620	2593	11.08	13	PASS
256QAM	41540	2685	10.52	13	PASS



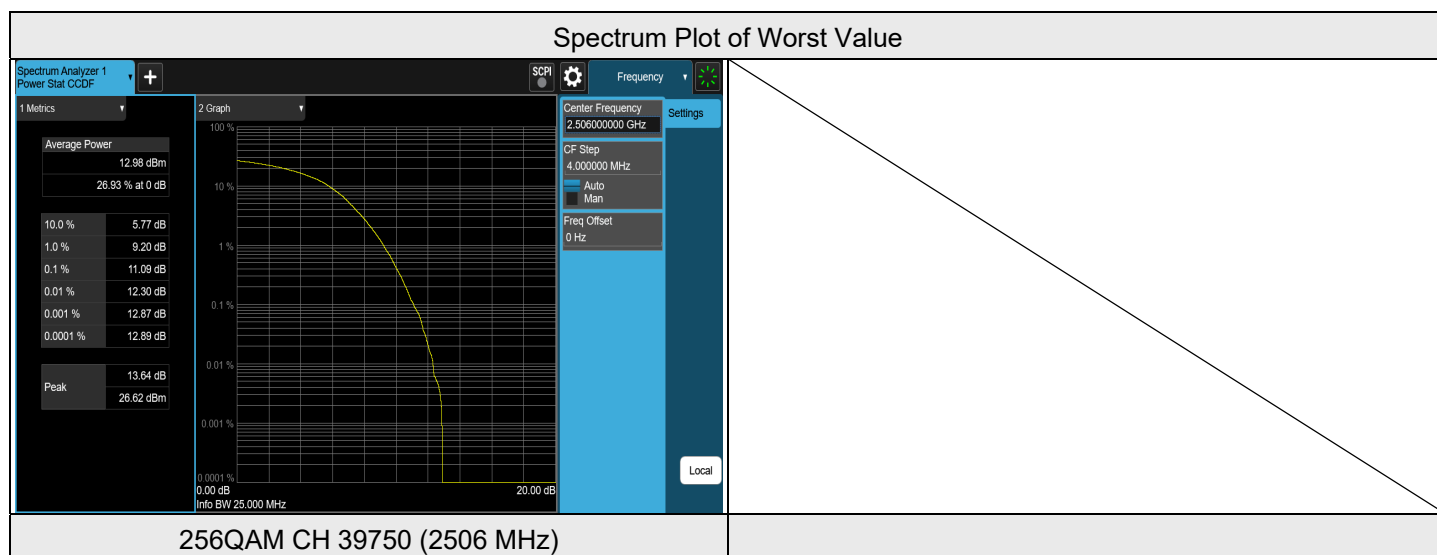
LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39725	2503.5	7.29	13	PASS
QPSK	40620	2593	7.83	13	PASS
QPSK	41515	2682.5	7.88	13	PASS
16QAM	39725	2503.5	8.27	13	PASS
16QAM	40620	2593	8.41	13	PASS
16QAM	41515	2682.5	9.51	13	PASS
64QAM	39725	2503.5	9.42	13	PASS
64QAM	40620	2593	9.78	13	PASS
64QAM	41515	2682.5	9.99	13	PASS
256QAM	39725	2503.5	11.89	13	PASS
256QAM	40620	2593	9.91	13	PASS
256QAM	41515	2682.5	10.90	13	PASS



LTE Band 41, Channel Bandwidth: 20 MHz

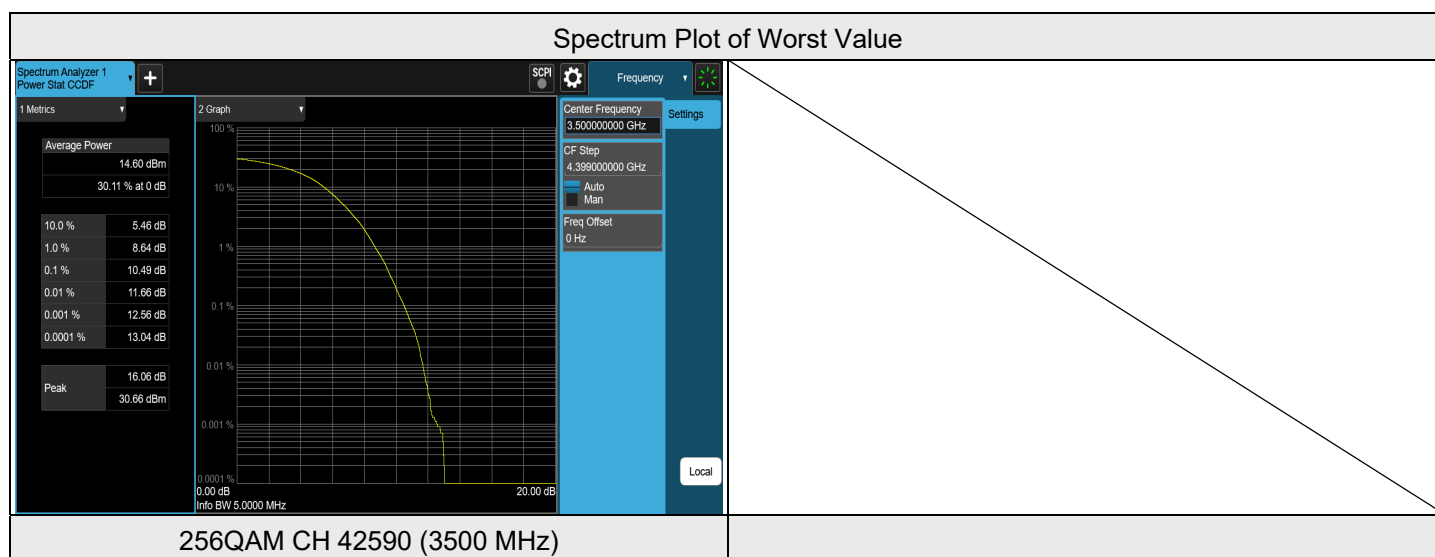
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	39750	2506	8.16	13	PASS
QPSK	40620	2593	6.76	13	PASS
QPSK	41490	2680	6.87	13	PASS
16QAM	39750	2506	8.12	13	PASS
16QAM	40620	2593	8.00	13	PASS
16QAM	41490	2680	9.28	13	PASS
64QAM	39750	2506	9.95	13	PASS
64QAM	40620	2593	9.70	13	PASS
64QAM	41490	2680	9.21	13	PASS
256QAM	39750	2506	11.09	13	PASS
256QAM	40620	2593	9.49	13	PASS
256QAM	41490	2680	10.50	13	PASS



7.3.10 LTE Band 42 (3.45 GHz ~ 3.55 GHz)

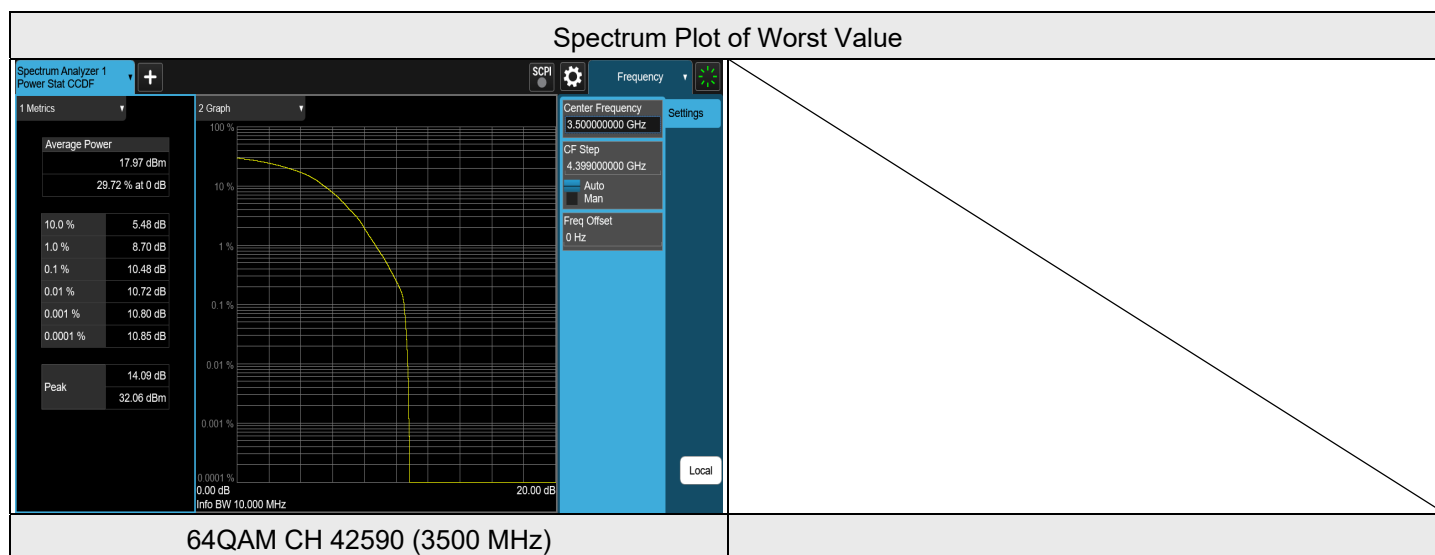
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	42115	3452.5	8.61	13	PASS
QPSK	42590	3500	8.54	13	PASS
QPSK	43065	3547.5	8.65	13	PASS
16QAM	42115	3452.5	9.27	13	PASS
16QAM	42590	3500	9.60	13	PASS
16QAM	43065	3547.5	9.55	13	PASS
64QAM	42115	3452.5	9.88	13	PASS
64QAM	42590	3500	10.22	13	PASS
64QAM	43065	3547.5	9.91	13	PASS
256QAM	42115	3452.5	10.44	13	PASS
256QAM	42590	3500	10.49	13	PASS
256QAM	43065	3547.5	10.49	13	PASS



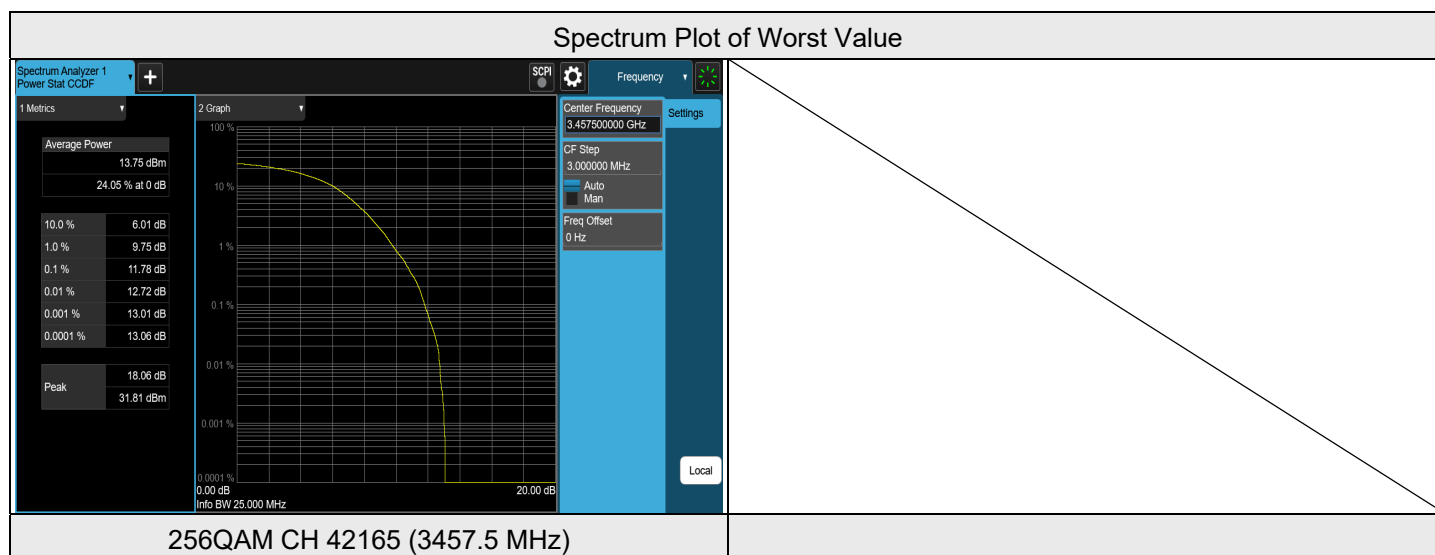
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	42140	3455	8.58	13	PASS
QPSK	42590	3500	9.04	13	PASS
QPSK	43040	3545	8.61	13	PASS
16QAM	42140	3455	9.16	13	PASS
16QAM	42590	3500	9.52	13	PASS
16QAM	43040	3545	9.36	13	PASS
64QAM	42140	3455	10.19	13	PASS
64QAM	42590	3500	10.48	13	PASS
64QAM	43040	3545	10.40	13	PASS
256QAM	42140	3455	10.11	13	PASS
256QAM	42590	3500	10.21	13	PASS
256QAM	43040	3545	9.84	13	PASS



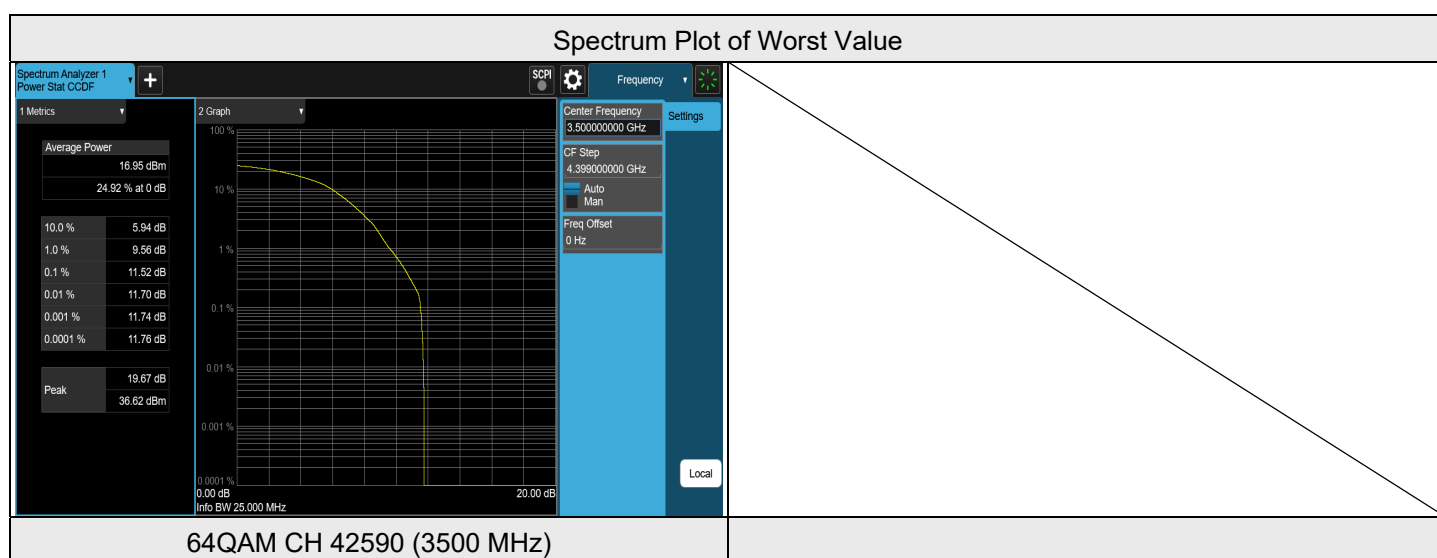
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	42165	3457.5	9.56	13	PASS
QPSK	42590	3500	9.44	13	PASS
QPSK	43015	3542.5	7.27	13	PASS
16QAM	42165	3457.5	10.80	13	PASS
16QAM	42590	3500	9.03	13	PASS
16QAM	43015	3542.5	8.44	13	PASS
64QAM	42165	3457.5	10.61	13	PASS
64QAM	42590	3500	10.38	13	PASS
64QAM	43015	3542.5	11.45	13	PASS
256QAM	42165	3457.5	11.78	13	PASS
256QAM	42590	3500	10.86	13	PASS
256QAM	43015	3542.5	9.56	13	PASS



LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

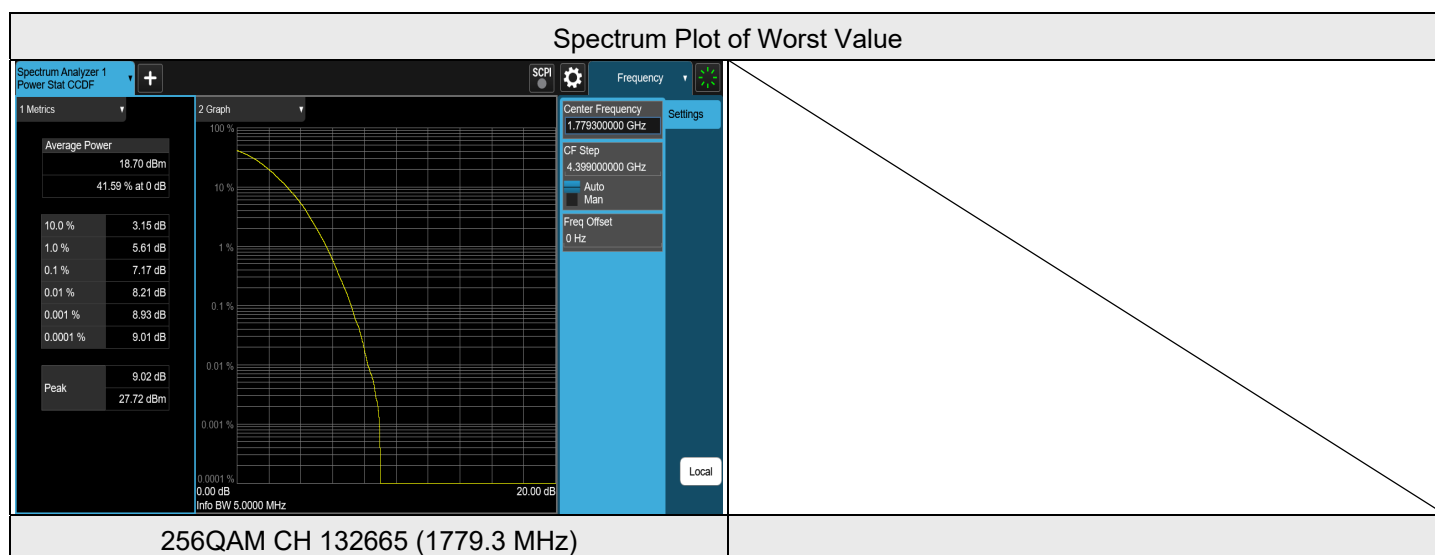
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	42190	3460	8.26	13	PASS
QPSK	42590	3500	8.63	13	PASS
QPSK	42990	3540	8.37	13	PASS
16QAM	42190	3460	9.69	13	PASS
16QAM	42590	3500	8.85	13	PASS
16QAM	42990	3540	9.58	13	PASS
64QAM	42190	3460	10.37	13	PASS
64QAM	42590	3500	11.52	13	PASS
64QAM	42990	3540	10.83	13	PASS
256QAM	42190	3460	10.42	13	PASS
256QAM	42590	3500	11.00	13	PASS
256QAM	42990	3540	9.63	13	PASS



7.3.11 LTE Band 66

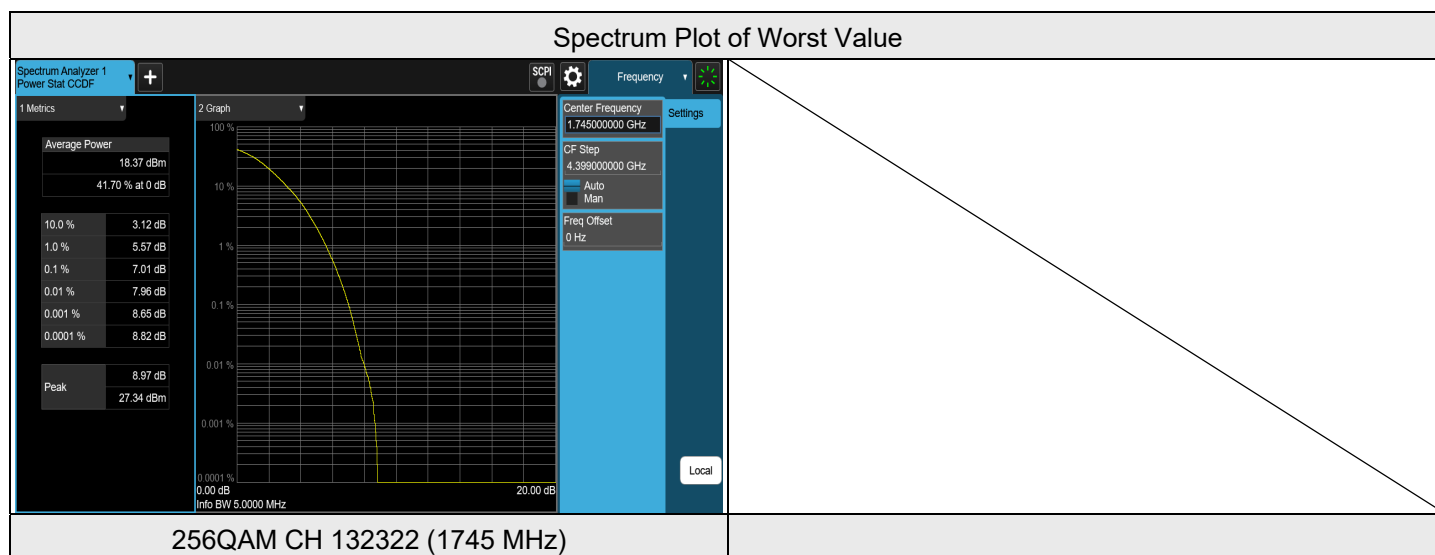
LTE Band 66, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131979	1710.7	3.79	13	PASS
QPSK	132322	1745	3.85	13	PASS
QPSK	132665	1779.3	3.87	13	PASS
16QAM	131979	1710.7	4.53	13	PASS
16QAM	132322	1745	4.71	13	PASS
16QAM	132665	1779.3	4.64	13	PASS
64QAM	131979	1710.7	5.57	13	PASS
64QAM	132322	1745	5.67	13	PASS
64QAM	132665	1779.3	5.61	13	PASS
256QAM	131979	1710.7	7.10	13	PASS
256QAM	132322	1745	7.11	13	PASS
256QAM	132665	1779.3	7.17	13	PASS



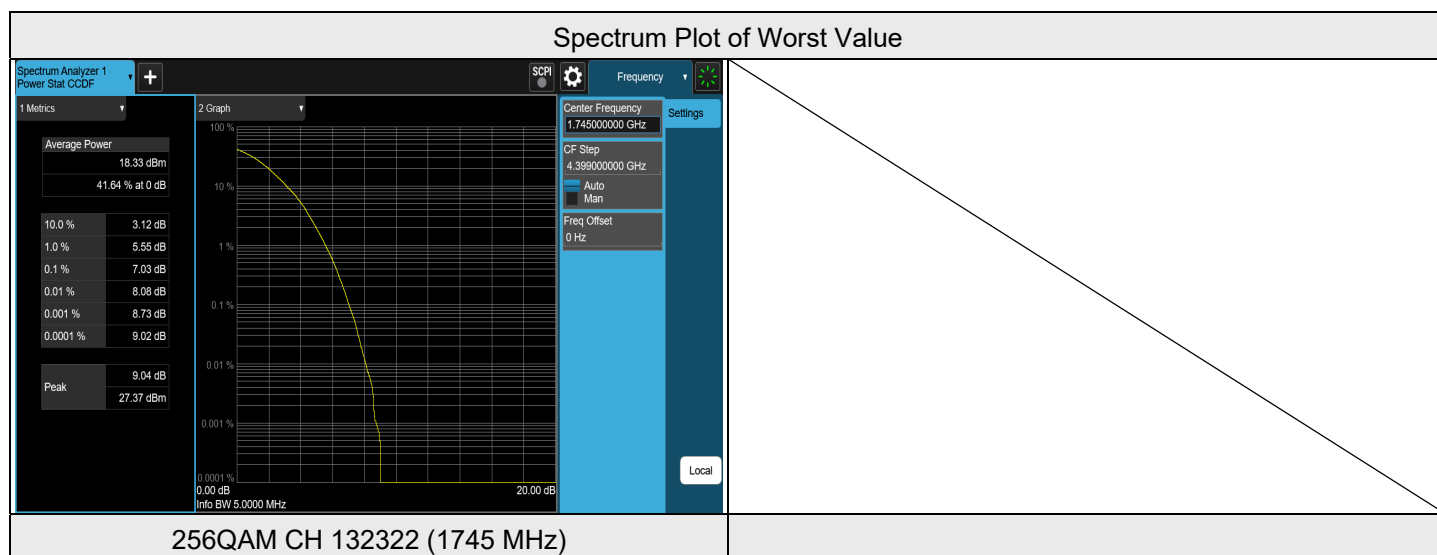
LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131987	1711.5	3.92	13	PASS
QPSK	132322	1745	3.92	13	PASS
QPSK	132657	1778.5	3.86	13	PASS
16QAM	131987	1711.5	4.95	13	PASS
16QAM	132322	1745	5.04	13	PASS
16QAM	132657	1778.5	4.94	13	PASS
64QAM	131987	1711.5	5.91	13	PASS
64QAM	132322	1745	5.99	13	PASS
64QAM	132657	1778.5	5.92	13	PASS
256QAM	131987	1711.5	6.93	13	PASS
256QAM	132322	1745	7.01	13	PASS
256QAM	132657	1778.5	6.98	13	PASS



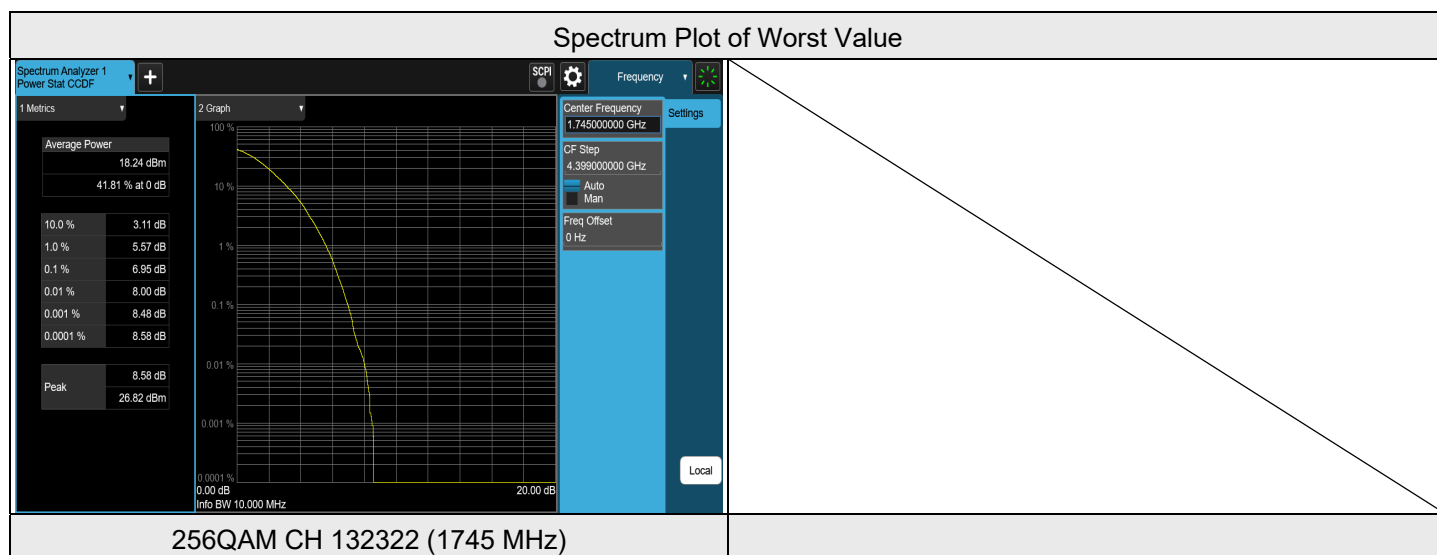
LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	131997	1712.5	4.16	13	PASS
QPSK	132322	1745	4.27	13	PASS
QPSK	132647	1777.5	4.16	13	PASS
16QAM	131997	1712.5	5.08	13	PASS
16QAM	132322	1745	5.11	13	PASS
16QAM	132647	1777.5	5.01	13	PASS
64QAM	131997	1712.5	5.86	13	PASS
64QAM	132322	1745	5.98	13	PASS
64QAM	132647	1777.5	5.85	13	PASS
256QAM	131997	1712.5	6.98	13	PASS
256QAM	132322	1745	7.03	13	PASS
256QAM	132647	1777.5	7.03	13	PASS



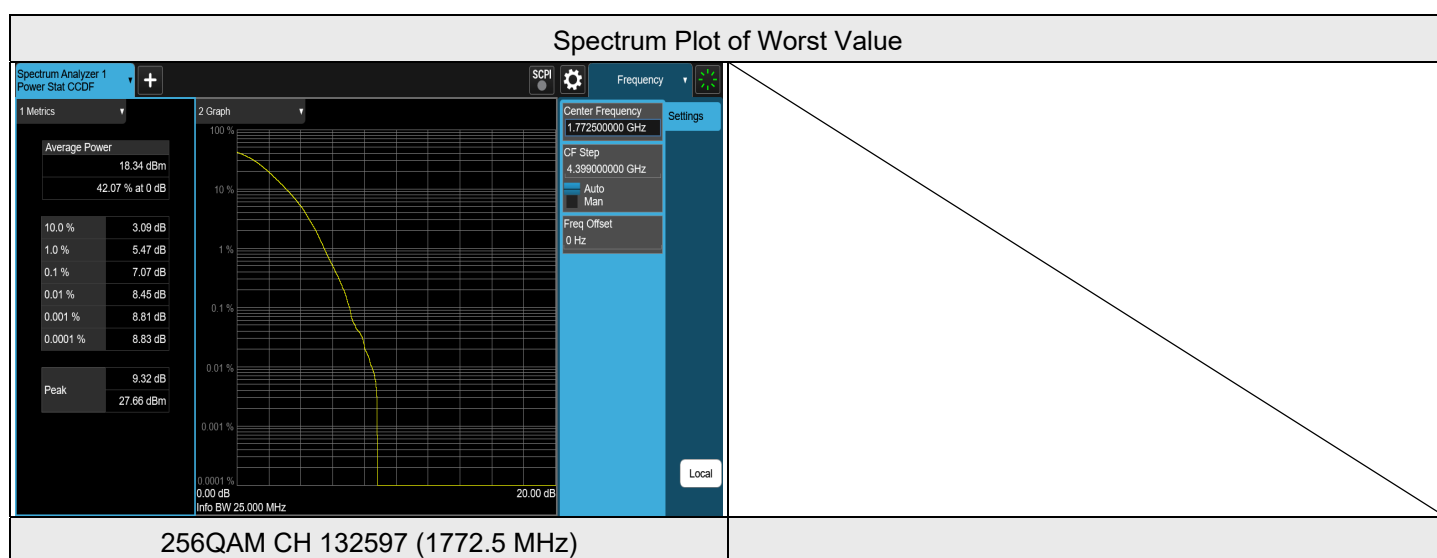
LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132022	1715	4.18	13	PASS
QPSK	132322	1745	4.29	13	PASS
QPSK	132622	1775	4.24	13	PASS
16QAM	132022	1715	4.96	13	PASS
16QAM	132322	1745	5.18	13	PASS
16QAM	132622	1775	4.97	13	PASS
64QAM	132022	1715	6.03	13	PASS
64QAM	132322	1745	6.18	13	PASS
64QAM	132622	1775	6.10	13	PASS
256QAM	132022	1715	6.92	13	PASS
256QAM	132322	1745	6.95	13	PASS
256QAM	132622	1775	6.84	13	PASS



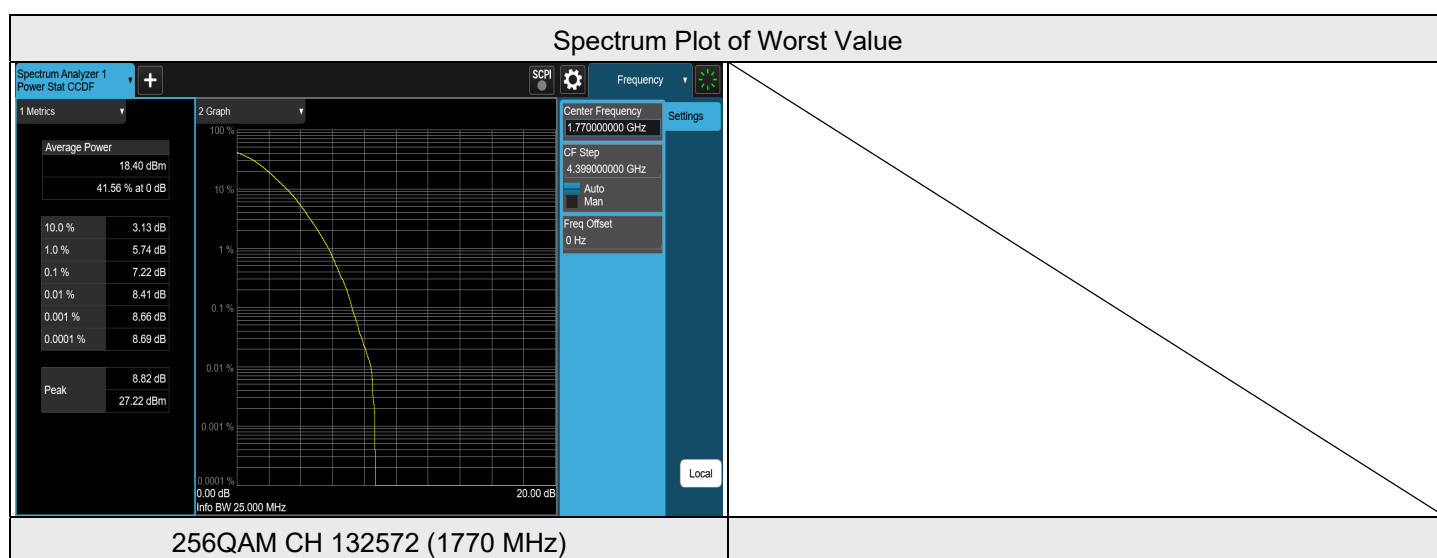
LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132047	1717.5	3.96	13	PASS
QPSK	132322	1745	4.36	13	PASS
QPSK	132597	1772.5	4.29	13	PASS
16QAM	132047	1717.5	4.56	13	PASS
16QAM	132322	1745	4.84	13	PASS
16QAM	132597	1772.5	4.69	13	PASS
64QAM	132047	1717.5	5.85	13	PASS
64QAM	132322	1745	6.11	13	PASS
64QAM	132597	1772.5	6.07	13	PASS
256QAM	132047	1717.5	6.93	13	PASS
256QAM	132322	1745	6.96	13	PASS
256QAM	132597	1772.5	7.07	13	PASS



LTE Band 66, Channel Bandwidth: 20 MHz

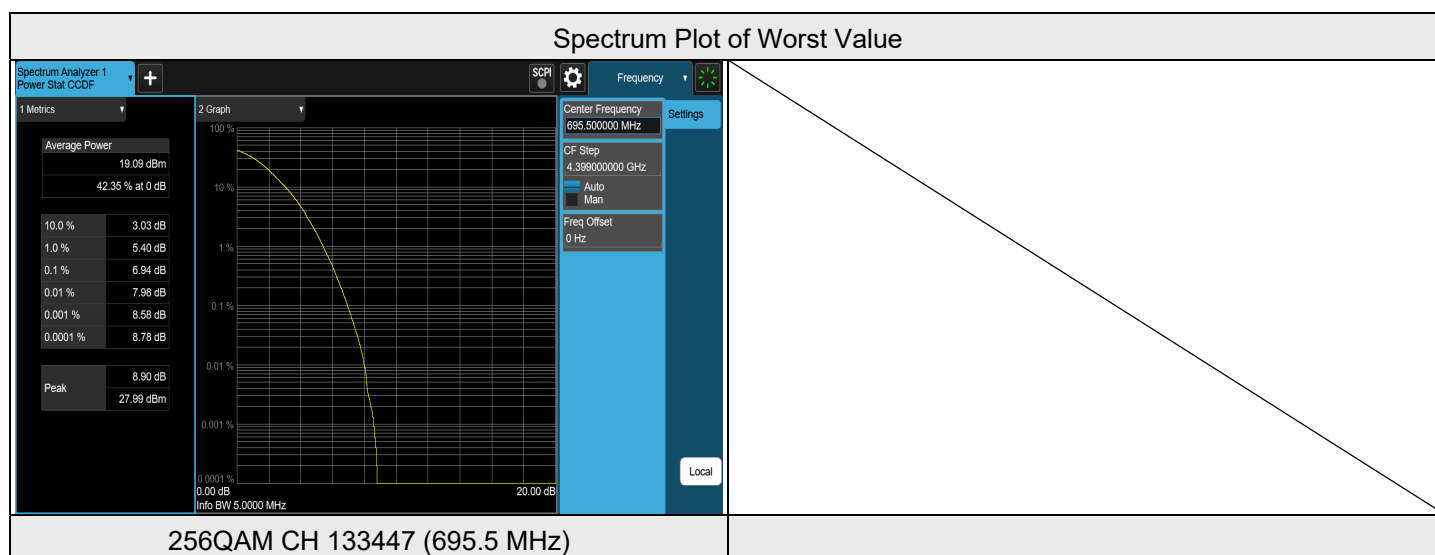
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	132072	1720	4.13	13	PASS
QPSK	132322	1745	4.40	13	PASS
QPSK	132572	1770	4.39	13	PASS
16QAM	132072	1720	4.98	13	PASS
16QAM	132322	1745	5.17	13	PASS
16QAM	132572	1770	5.11	13	PASS
64QAM	132072	1720	6.02	13	PASS
64QAM	132322	1745	6.22	13	PASS
64QAM	132572	1770	6.22	13	PASS
256QAM	132072	1720	6.70	13	PASS
256QAM	132322	1745	6.78	13	PASS
256QAM	132572	1770	7.22	13	PASS



7.3.12 LTE Band 71

LTE Band 71, Channel Bandwidth: 5 MHz

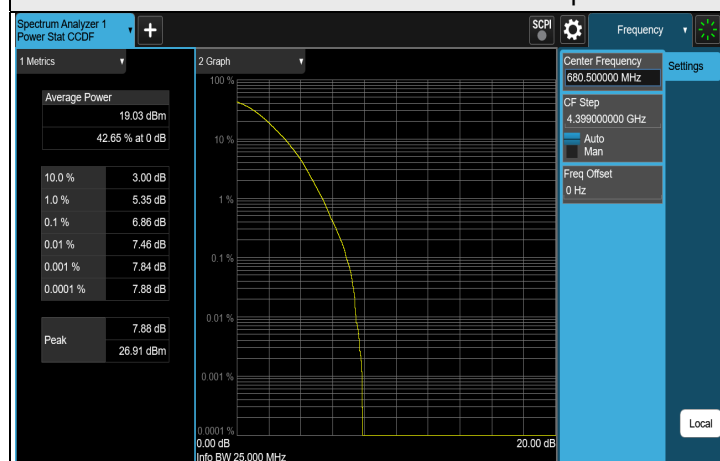
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133147	665.5	4.23	13	PASS
QPSK	133297	680.5	4.52	13	PASS
QPSK	133447	695.5	4.35	13	PASS
16QAM	133147	665.5	4.99	13	PASS
16QAM	133297	680.5	5.38	13	PASS
16QAM	133447	695.5	5.31	13	PASS
64QAM	133147	665.5	5.88	13	PASS
64QAM	133297	680.5	6.17	13	PASS
64QAM	133447	695.5	6.01	13	PASS
256QAM	133147	665.5	6.89	13	PASS
256QAM	133297	680.5	6.92	13	PASS
256QAM	133447	695.5	6.94	13	PASS



LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133197	670.5	4.31	13	PASS
QPSK	133297	680.5	4.39	13	PASS
QPSK	133397	690.5	4.42	13	PASS
16QAM	133197	670.5	4.77	13	PASS
16QAM	133297	680.5	5.06	13	PASS
16QAM	133397	690.5	4.98	13	PASS
64QAM	133197	670.5	6.10	13	PASS
64QAM	133297	680.5	6.03	13	PASS
64QAM	133397	690.5	6.12	13	PASS
256QAM	133197	670.5	6.67	13	PASS
256QAM	133297	680.5	6.86	13	PASS
256QAM	133397	690.5	6.81	13	PASS

Spectrum Plot of Worst Value

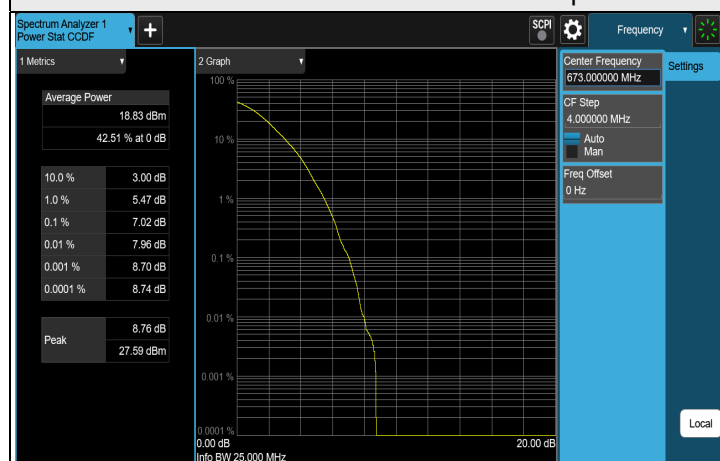


256QAM CH 133297 (680.5 MHz)

LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	133222	673	4.54	13	PASS
QPSK	133297	680.5	4.27	13	PASS
QPSK	133372	688	4.53	13	PASS
16QAM	133222	673	5.16	13	PASS
16QAM	133297	680.5	5.10	13	PASS
16QAM	133372	688	5.57	13	PASS
64QAM	133222	673	6.26	13	PASS
64QAM	133297	680.5	5.92	13	PASS
64QAM	133372	688	6.40	13	PASS
256QAM	133222	673	7.02	13	PASS
256QAM	133297	680.5	6.73	13	PASS
256QAM	133372	688	6.81	13	PASS

Spectrum Plot of Worst Value



256QAM CH 133222 (673 MHz)

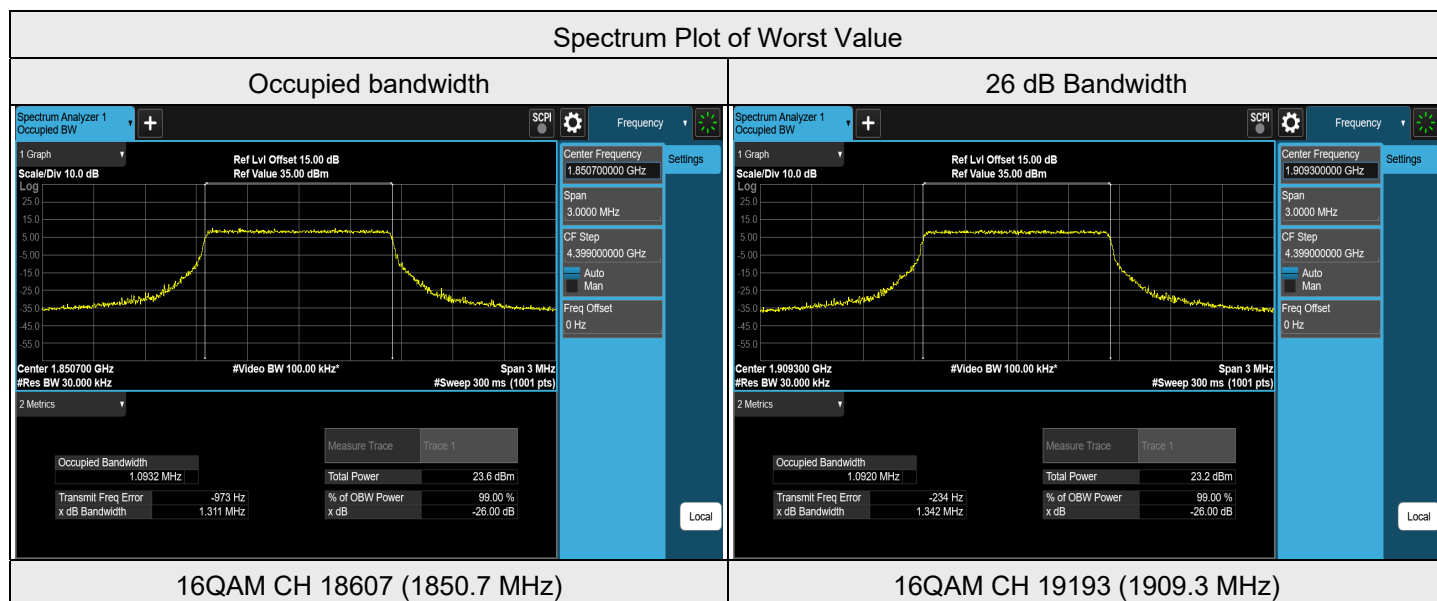
7.4 Bandwidth

Input Power:	3.8 Vdc	Environmental Conditions:	25°C, 67% RH	Tested By:	Noah Chang
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7.4.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

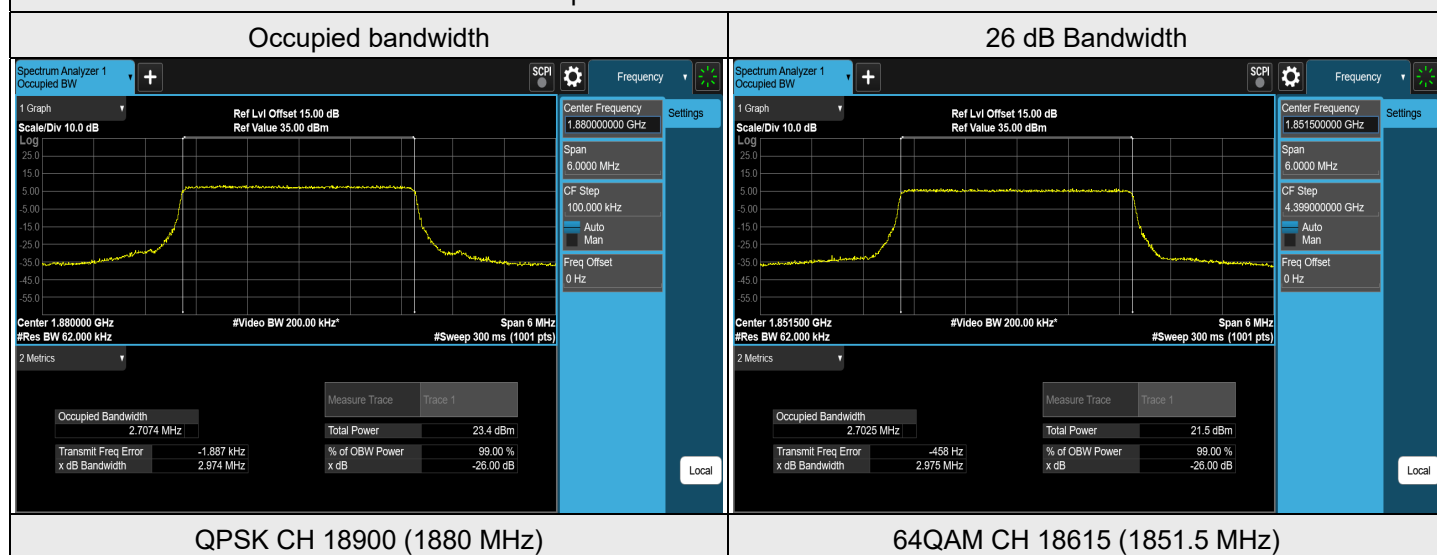
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0892	1.284
QPSK	18900	1880	1.0896	1.320
QPSK	19193	1909.3	1.0904	1.296
16QAM	18607	1850.7	1.0932	1.311
16QAM	18900	1880	1.0923	1.312
16QAM	19193	1909.3	1.0920	1.342
64QAM	18607	1850.7	1.0898	1.297
64QAM	18900	1880	1.0905	1.282
64QAM	19193	1909.3	1.0928	1.298
256QAM	18607	1850.7	1.0895	1.312
256QAM	18900	1880	1.0893	1.313
256QAM	19193	1909.3	1.0888	1.295



LTE Band 2, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.6974	2.969
QPSK	18900	1880	2.7074	2.974
QPSK	19185	1908.5	2.7031	2.948
16QAM	18615	1851.5	2.7004	2.951
16QAM	18900	1880	2.7011	2.953
16QAM	19185	1908.5	2.6977	2.967
64QAM	18615	1851.5	2.7025	2.975
64QAM	18900	1880	2.7036	2.947
64QAM	19185	1908.5	2.7026	2.964
256QAM	18615	1851.5	2.7011	2.962
256QAM	18900	1880	2.7021	2.937
256QAM	19185	1908.5	2.7006	2.957

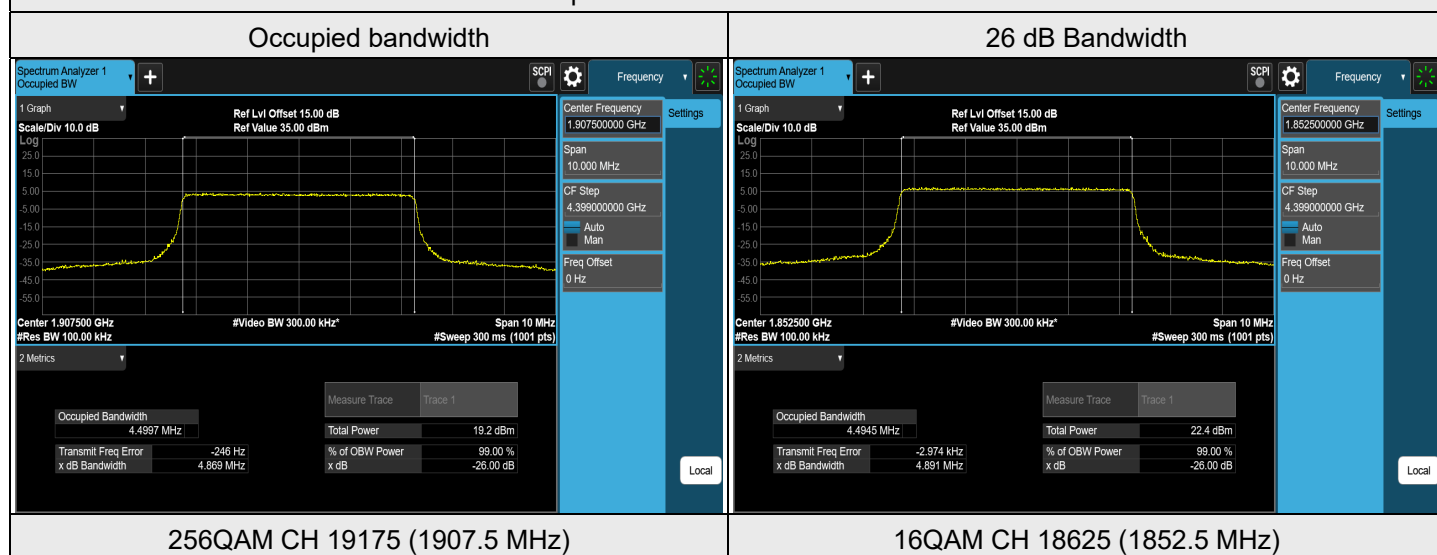
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.4973	4.863
QPSK	18900	1880	4.4940	4.884
QPSK	19175	1907.5	4.4938	4.878
16QAM	18625	1852.5	4.4945	4.891
16QAM	18900	1880	4.4922	4.877
16QAM	19175	1907.5	4.4967	4.845
64QAM	18625	1852.5	4.4895	4.875
64QAM	18900	1880	4.4915	4.868
64QAM	19175	1907.5	4.4939	4.861
256QAM	18625	1852.5	4.4914	4.881
256QAM	18900	1880	4.4884	4.883
256QAM	19175	1907.5	4.4997	4.869

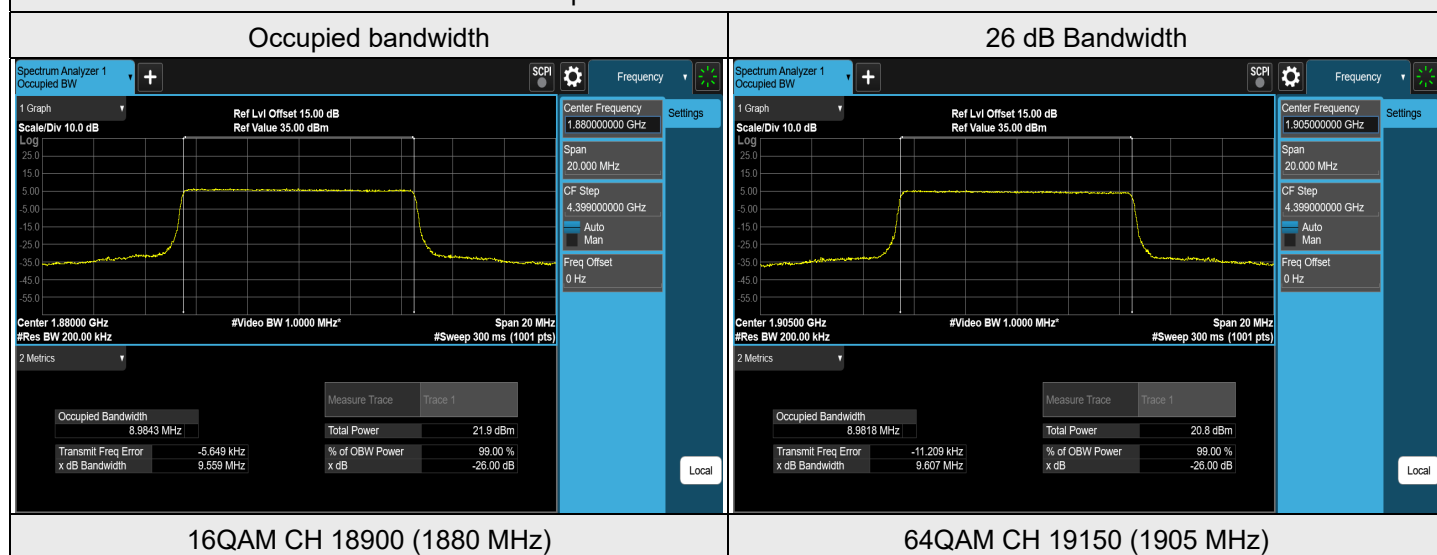
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9836	9.533
QPSK	18900	1880	8.9830	9.552
QPSK	19150	1905	8.9773	9.536
16QAM	18650	1855	8.9832	9.551
16QAM	18900	1880	8.9843	9.559
16QAM	19150	1905	8.9805	9.546
64QAM	18650	1855	8.9840	9.576
64QAM	18900	1880	8.9841	9.559
64QAM	19150	1905	8.9818	9.607
256QAM	18650	1855	8.9843	9.559
256QAM	18900	1880	8.9842	9.570
256QAM	19150	1905	8.9802	9.533

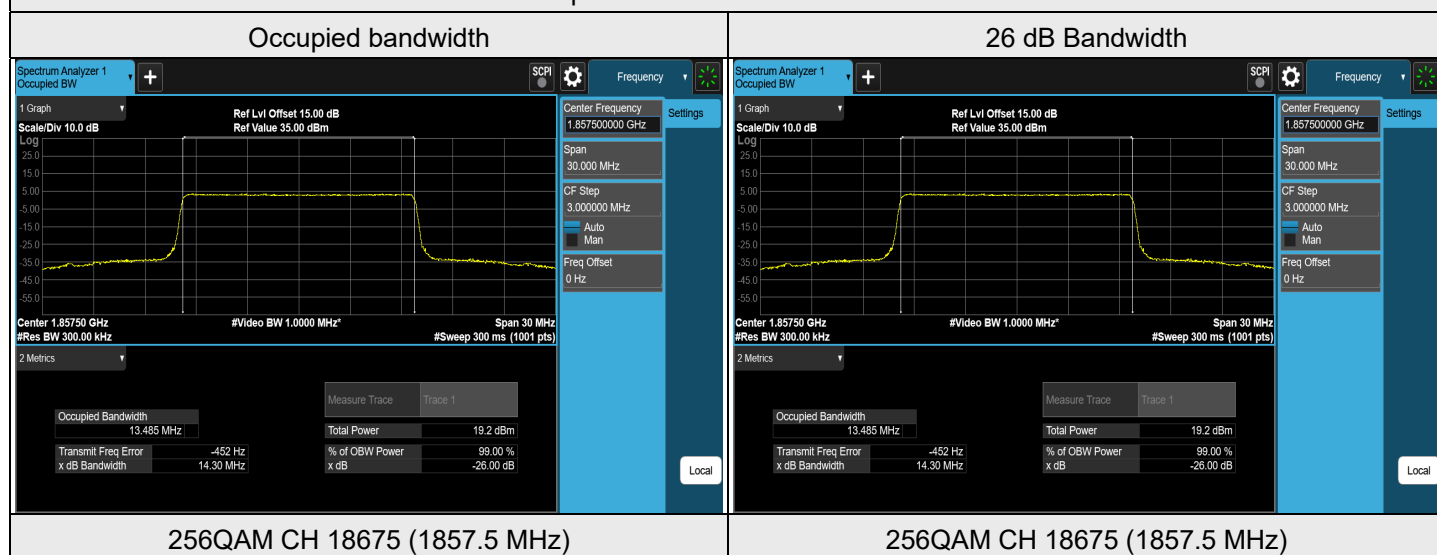
Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 15 MHz

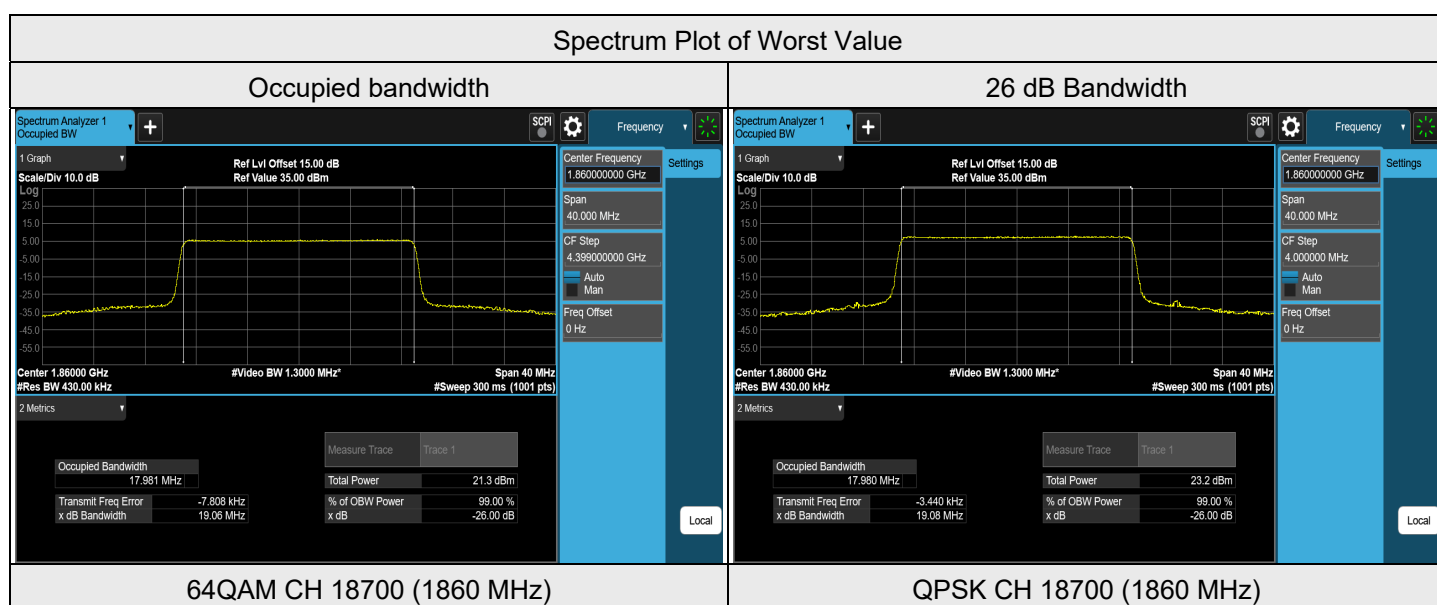
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.4717	14.291
QPSK	18900	1880	13.4719	14.283
QPSK	19125	1902.5	13.4541	14.291
16QAM	18675	1857.5	13.4741	14.272
16QAM	18900	1880	13.4691	14.263
16QAM	19125	1902.5	13.4605	14.270
64QAM	18675	1857.5	13.4682	14.273
64QAM	18900	1880	13.4633	14.271
64QAM	19125	1902.5	13.4579	14.241
256QAM	18675	1857.5	13.4854	14.299
256QAM	18900	1880	13.4634	14.266
256QAM	19125	1902.5	13.4697	14.256

Spectrum Plot of Worst Value



LTE Band 2, Channel Bandwidth: 20 MHz

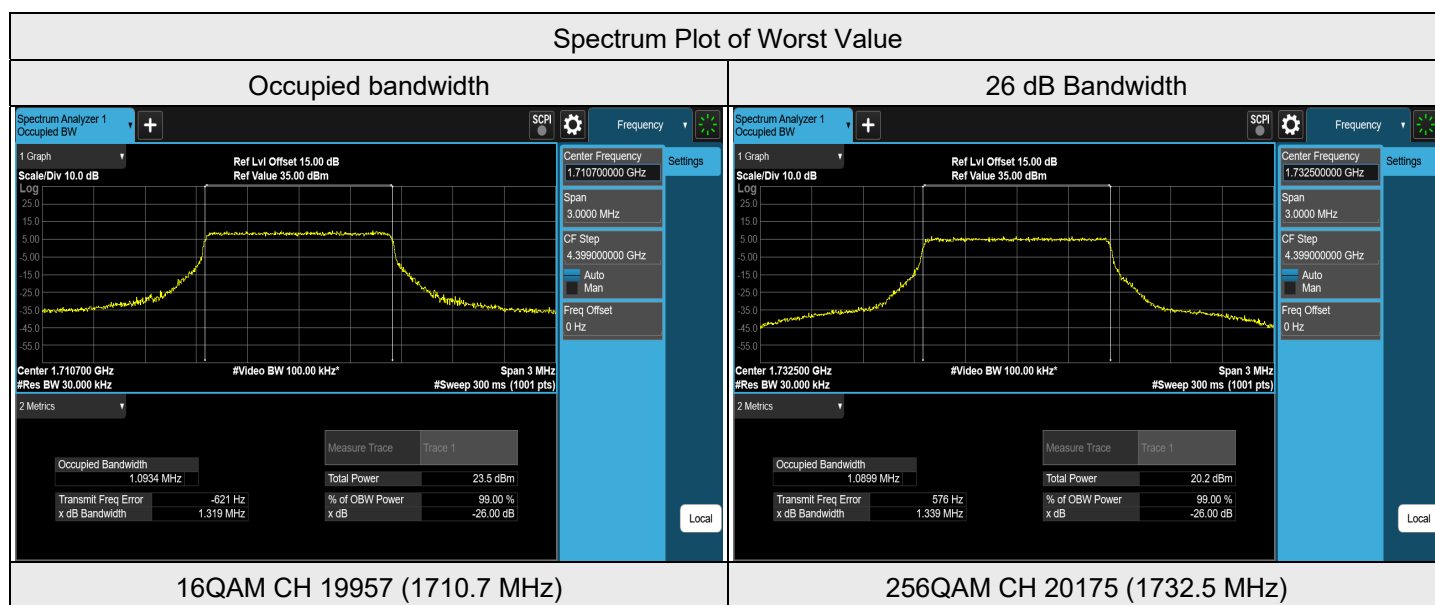
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.9796	19.076
QPSK	18900	1880	17.9663	19.050
QPSK	19100	1900	17.9461	19.048
16QAM	18700	1860	17.9664	19.051
16QAM	18900	1880	17.9574	19.070
16QAM	19100	1900	17.9446	19.036
64QAM	18700	1860	17.9809	19.064
64QAM	18900	1880	17.9674	19.065
64QAM	19100	1900	17.9348	19.052
256QAM	18700	1860	17.9774	19.075
256QAM	18900	1880	17.9692	19.050
256QAM	19100	1900	17.9572	19.043



7.4.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

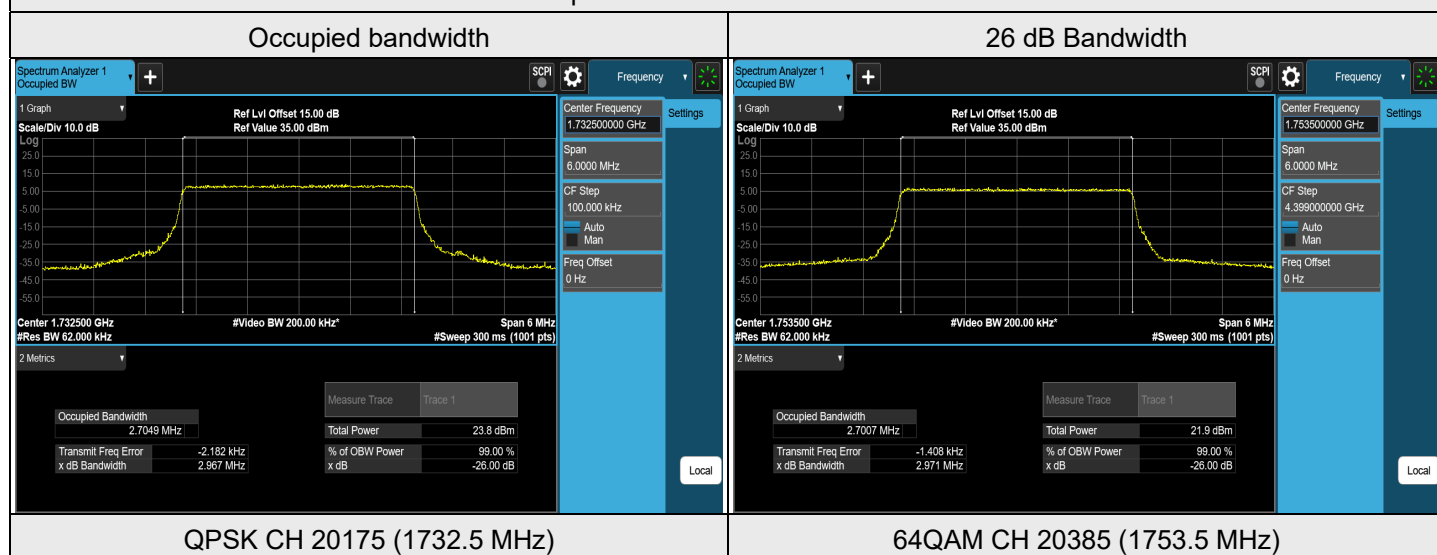
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0901	1.296
QPSK	20175	1732.5	1.0886	1.302
QPSK	20393	1754.3	1.0911	1.308
16QAM	19957	1710.7	1.0934	1.319
16QAM	20175	1732.5	1.0932	1.319
16QAM	20393	1754.3	1.0924	1.315
64QAM	19957	1710.7	1.0881	1.308
64QAM	20175	1732.5	1.0908	1.293
64QAM	20393	1754.3	1.0915	1.289
256QAM	19957	1710.7	1.0916	1.313
256QAM	20175	1732.5	1.0899	1.339
256QAM	20393	1754.3	1.0900	1.286



LTE Band 4, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19965	1711.5	2.7004	2.930
QPSK	20175	1732.5	2.7049	2.967
QPSK	20385	1753.5	2.7006	2.964
16QAM	19965	1711.5	2.7005	2.954
16QAM	20175	1732.5	2.7003	2.964
16QAM	20385	1753.5	2.7015	2.961
64QAM	19965	1711.5	2.7004	2.958
64QAM	20175	1732.5	2.7018	2.966
64QAM	20385	1753.5	2.7007	2.971
256QAM	19965	1711.5	2.7033	2.948
256QAM	20175	1732.5	2.7021	2.952
256QAM	20385	1753.5	2.7042	2.947

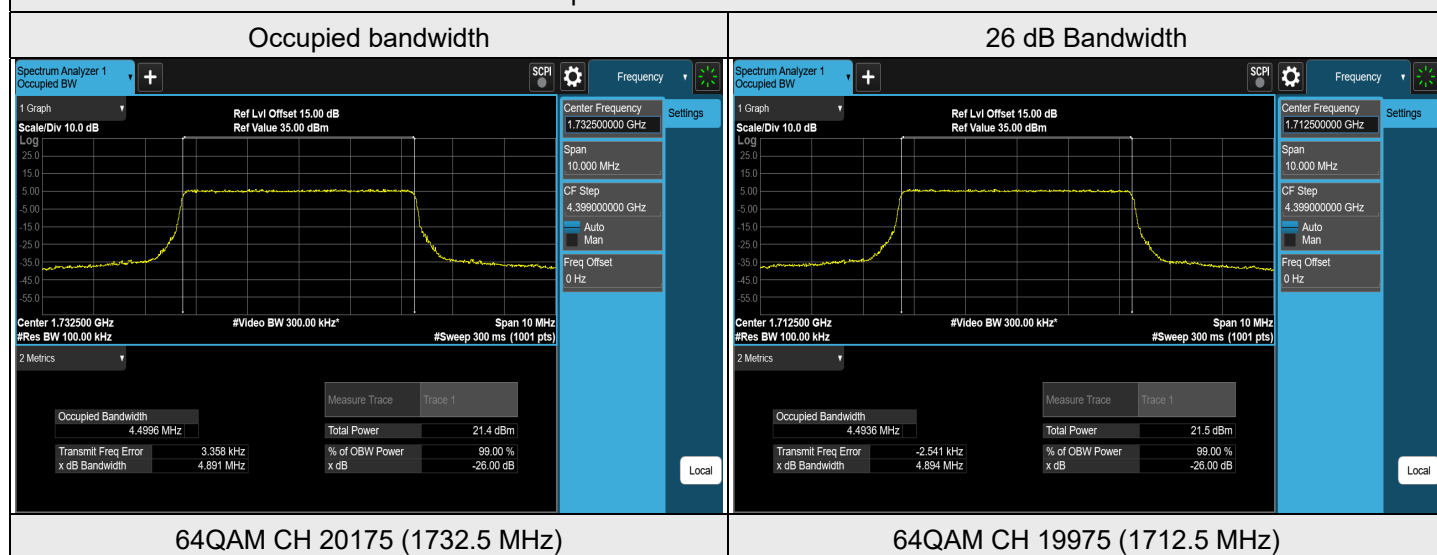
Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4978	4.878
QPSK	20175	1732.5	4.4954	4.893
QPSK	20375	1752.5	4.4947	4.854
16QAM	19975	1712.5	4.4951	4.884
16QAM	20175	1732.5	4.4947	4.854
16QAM	20375	1752.5	4.4945	4.841
64QAM	19975	1712.5	4.4936	4.894
64QAM	20175	1732.5	4.4996	4.891
64QAM	20375	1752.5	4.4914	4.860
256QAM	19975	1712.5	4.4900	4.882
256QAM	20175	1732.5	4.4935	4.894
256QAM	20375	1752.5	4.4974	4.877

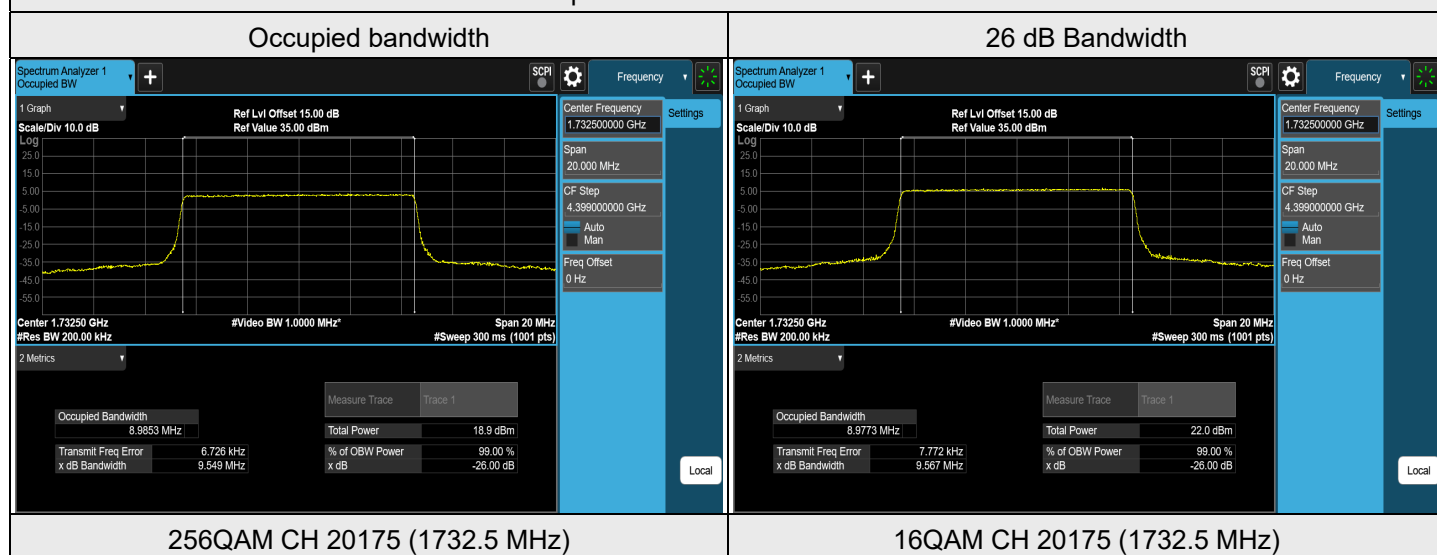
Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20000	1715	8.9786	9.559
QPSK	20175	1732.5	8.9838	9.545
QPSK	20350	1750	8.9722	9.548
16QAM	20000	1715	8.9732	9.545
16QAM	20175	1732.5	8.9773	9.567
16QAM	20350	1750	8.9763	9.540
64QAM	20000	1715	8.9721	9.557
64QAM	20175	1732.5	8.9798	9.557
64QAM	20350	1750	8.9719	9.565
256QAM	20000	1715	8.9838	9.537
256QAM	20175	1732.5	8.9853	9.549
256QAM	20350	1750	8.9835	9.532

Spectrum Plot of Worst Value



LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20025	1717.5	13.4645	14.258
QPSK	20175	1732.5	13.4718	14.266
QPSK	20325	1747.5	13.4573	14.275
16QAM	20025	1717.5	13.4617	14.245
16QAM	20175	1732.5	13.4664	14.284
16QAM	20325	1747.5	13.4520	14.257
64QAM	20025	1717.5	13.4591	14.277
64QAM	20175	1732.5	13.4691	14.241
64QAM	20325	1747.5	13.4462	14.242
256QAM	20025	1717.5	13.4625	14.254
256QAM	20175	1732.5	13.4704	14.237
256QAM	20325	1747.5	13.4592	14.283

Spectrum Plot of Worst Value

