



FCC TEST REPORT

FCC ID: SY4-A02078

On Behalf of

Shanghai Huace Navigation Technology Ltd.

Tablet

Model No.: CB-H10 Pro (T)

Prepared for : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number : A2604056-C03-R07
Date of Receipt : May 08, 2026
Date of Test : May 09, 2026 – September 8, 2026
Date of Report : September 8, 2026
Version Number : V0
Test Result : Pass

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TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
Manufacturer : Shanghai Huace Navigation Technology Ltd.
Address : 577 Songying Road, Qingpu District, 201706 Shanghai, China
EUT Description : Tablet

(A) Model No. : CB-H10 Pro (T)

(B) Trademark : 

Measurement Standard Used:

FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27
FCC CFR Title 47 Part 90

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Yannis Wen 
Project Engineer

Approved by (name + signature).....: Alan Fan 
Project Manager

Date of issue.....: September 8, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	September 8, 2026	Initial released Issue	Yannis Wen

1 Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(b) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635	Pass
Peak-To-Average Ratio	Part 2.1046 Part 22.913(d) Part 24.232 (d) Part 27.50(d)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238 Part 27.53(a)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Out of band emission, Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

2. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2 General Information

2.1 General Description of EUT

Description of Device (EUT)

Description	: Tablet
Model No.	: CB-H10 Pro (T)
DIFF.	: N/A
Test Voltage	: DC 12V from battery
Support Bands	: LTE Band 2/4/5/7/12/13/17/25/26/41
Channel Bandwidth	: LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26(L): 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 26(H): 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz
TX Frequency	: LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716MHz LTE Band 13: 777 ~ 787MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~1915MHz LTE Band 26(L): 814 ~ 824MHz LTE Band 26(H): 824 ~ 849MHz LTE Band 41: 2496 ~ 2690MHz
Modulation type	: QPSK, 16QAM
Antenna Type	: Internal antenna, LTE Band 2: Maximum Gain is 0dBi. LTE Band 4: Maximum Gain is 1.22dBi. LTE Band 5: Maximum Gain is -0.98dBi. LTE Band 7: Maximum Gain is 2.39dBi. LTE Band 12: Maximum Gain is -1.50dBi. LTE Band 13: Maximum Gain is -1.58dBi. LTE Band 17: Maximum Gain is -1.50dBi. LTE Band 25: Maximum Gain is 0.73dBi. LTE Band 26: Maximum Gain is -0.95dBi. LTE Band 41: Maximum Gain is 3.00dBi. (Antenna information is provided by applicant.)
Software version	: Android 14
Hardware version	: V0.3

Remark: 1. The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules, Part 27 of the FCC CFR 47 Rules.

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 15, 2019 Certificated by IC

Registration Number: 12135A

CAB identifier: CN0085

2.4 Accessories of Device (EUT)

Accessories : /

Manufacturer : /

Model : /

Ratings : /

2.5 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1	N/A	N/A	N/A	N/A	N/A

2.6 Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	27℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	98kPa

2.7 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8} GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%
Uncertainty for Power Spectral Density	0.39dB
Uncertainty for Occupied-Bandwidth	968Hz

3 Test Instruments list

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025.03.09	2029.03.08
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	2029.03.08
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	2026.08.03
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	2026.08.03
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2025.08.04	2026.08.03
Spectrum analyzer	ROHDE&SCHWARZ	FSU	4.71.SP5	200002	2025.08.04	2026.08.03
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2025.08.04	2026.08.03
UXM 5G Base Wireless Test Platform	Keysight	E5175E	1.8.1.2908 2(NR)(LTE)	MY62226130	2026.03.03	2027.03.02
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	2026.08.03
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	2026.08.03
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2027.08.10
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2027.08.10
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2027.08.10
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	2026.08.03
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	2026.08.03
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	2026.08.03
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	2026.08.03
Amplifier	SKET	LNPA_0118G-45	/	SK2020010801	2025.08.04	2026.08.03
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	/	SK20190712	2025.08.04	2026.08.03
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2025.08.04	2026.08.03
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	2026.08.03
Pulse Limiter	SCHWARZBECK	9516F	/	9618	2025.08.04	2026.08.03
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2027.08.10
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2025.08.04	2026.08.03
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2025.08.04	2026.08.03
Analog Signal Generator	HP	83712B	10.02	US34490219	2025.08.04	2026.08.03
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	2026.08.03
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	2026.08.03
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2025.08.04	2026.08.03
Power Sensor	DARE	RPR3006W	/	15100041SNO92	2025.08.04	2026.08.03
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2025.07.14	2026.07.13
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	2026.08.03
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	2026.08.03

Adjustable attenuator	MWRFTtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A
6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	/	N/A	2025.08.04	2026.08.03

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025/03/09	2029/03/08
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025/03/09	2029/03/08
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2026/7/28	2027/7/27
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2026/7/27	2027/7/26
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2026/7/27	2027/7/26
Spectrum analyzer	ROHDE&SCHWARZ	FSU	4.71.SP5	200002	2026/7/28	2027/7/27
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2026/7/27	2027/7/26
UXM 5G Base Wireless Test Platform	Keysight	E5175E	1.8.1.2908 2(NR)(LTE)	MY62226130	2026/03/03	2027/03/02
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2026/7/27	2027/7/26
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2026/7/28	2027/7/27
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025/08/11	2027/08/10
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025/08/11	2027/08/10
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025/08/11	2027/08/10
RF Cable	Resenberger	Cable 1	/	RE1	2026/7/27	2027/7/26
RF Cable	Resenberger	Cable 2	/	RE2	2026/7/27	2027/7/26
RF Cable	Resenberger	Cable 3	/	CE1	2026/7/27	2027/7/26
Amplifier	HP	HP8347A	/	2834A00455	2026/7/28	2027/7/27
Amplifier	Agilent	8449B	/	3008A02664	2026/7/27	2027/7/26
Amplifier	SKET	LNPA_0118G-45	/	SK2020010801	2026/7/27	2027/7/26
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	/	SK20190712	2026/7/27	2027/7/26
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2026/7/28	2027/7/27
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2026/7/28	2027/7/27
Pulse Limiter	SCHWARZBECK	9516F	/	9618	2026/7/27	2027/7/26
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025/8/11	2027/8/10
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2026/7/27	2027/7/26
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2026/7/28	2027/7/27
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2026/7/27	2027/7/26
Analog Signal Generator	HP	83712B	10.02	US34490219	2026/7/27	2027/7/26
Power Meter	Agilent	E4419B	/	GB40202122	2026/7/27	2027/7/26
Power Sensor	Agilent	E9300A	/	MY41496628	2026/7/27	2027/7/26
Power Sensor	Agilent	E9304A	/	MY41496815	2026/7/27	2027/7/26
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2026/7/28	2027/7/27
Power Sensor	DARE	RPR3006W	/	15100041SNO92	2026/7/28	2027/7/27
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2026/07/07	2027/07/06
Electronic	S.H.Qixiang	HTC-1	/	N/A	2026/7/31	2027/7/30

Thermo-Hygrometer						
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2026/7/27	2027/7/26
Adjustable attenuator	MWRFtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A
6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	/	N/A	2026/7/28	2027/7/27

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	Alpha-3A1
RF-CE	MTS 8310	MWRFtest	V2.0.0.0

4 System test configuration

4.1 Test mode

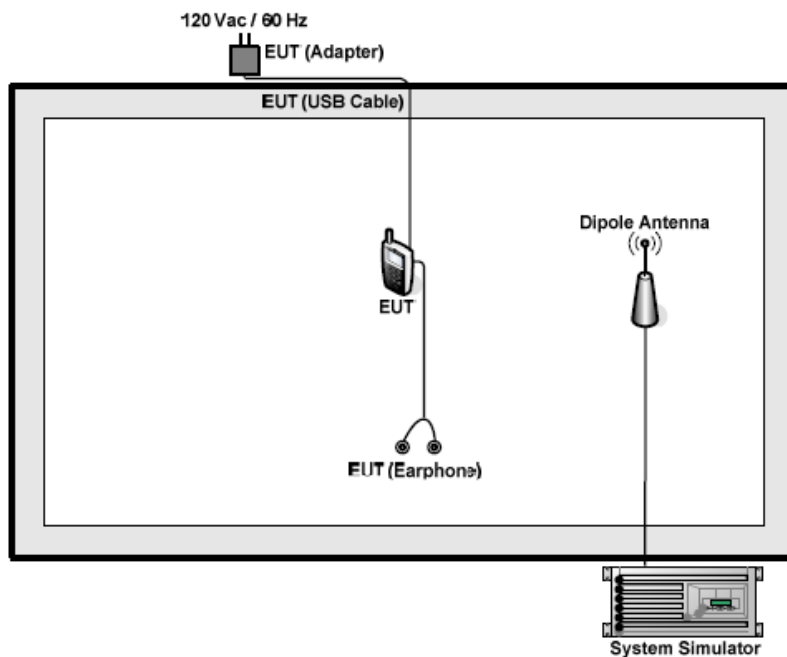
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 2	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 4	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 5	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 7	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 12	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 13	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 17	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 25	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 26	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 41	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link

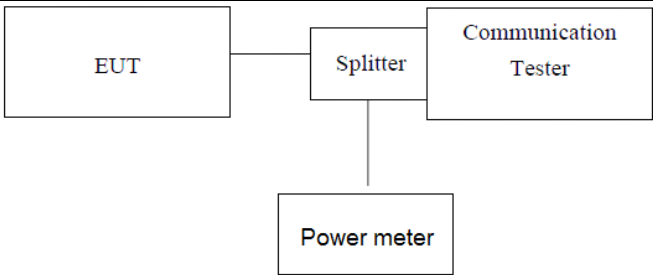
Note: Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03r1 with maximum output power.

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

4.2 Configuration of Tested System



4.3 Conducted Output Power

Test Requirement:	Part 2.1046, Part 22.913(a), Part 24.232(c), Part 27.50(b), Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 12: 3W LTE Band 13: 3W LTE Band 17: 3W LTE Band 25: 2W LTE Band 26(L):100W LTE Band 26(H):7W LTE Band 41: 2W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

LTE Band2

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18607/1850.7	18900/1880	19193/1909.3
1.4MHz	QPSK	1	0	23.65	23.53	23.55
			2	23.73	23.39	23.23
			5	23.69	23.58	23.38
		3	0	23.79	23.78	23.65
			2	23.32	23.46	23.54
			3	23.74	23.72	23.57
		6	0	24.00	24.03	23.53
	16QAM	1	0	23.75	23.39	23.93
			2	24.17	23.70	23.46
			5	23.49	23.92	23.66
		3	0	23.15	24.03	23.83
			2	23.38	23.76	23.44
			3	23.72	23.57	23.46
		6	0	23.48	23.38	23.48

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18615/1851.5	18900/1880	19185/1908.5
3MHz	QPSK	1	0	23.53	23.52	23.66
			7	23.63	23.14	23.61
			14	23.60	23.61	23.59
		8	0	23.87	23.42	23.56
			4	23.58	23.52	23.55
			7	23.72	23.61	23.63
		15	0	24.02	24.04	23.82
	16QAM	1	0	23.94	23.41	23.82
			7	24.22	23.63	23.57
			14	23.68	23.84	23.72
		8	0	23.39	24.05	24.02
			4	23.50	23.71	23.70
			7	23.69	23.92	23.41
		15	0	23.21	23.57	23.86

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18625/1852.5	18900/1880	19175/1907.5
5MHz	QPSK	1	0	23.29	23.43	23.51
			13	23.49	23.30	23.58
			24	23.61	23.68	23.36
		12	0	23.71	23.60	23.83
			6	23.27	23.40	23.50
			13	23.56	23.85	23.66
		25	0	24.27	24.04	23.71
	16QAM	1	0	23.84	23.55	24.00
			13	23.79	23.69	23.67
			24	23.56	24.00	23.44
		12	0	23.33	23.88	23.71
			6	23.49	23.58	23.47
			13	23.94	23.93	23.65
		25	0	23.45	23.49	23.82

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18650/1855	18900/1880	19150/1905
10MHz	QPSK	1	0	23.45	23.83	23.52
			25	23.50	23.36	23.24
			49	23.65	23.73	23.25
		25	0	24.07	23.85	23.64
			13	23.34	23.33	23.55
			25	23.69	23.95	23.52
		50	0	23.87	24.05	23.59
	16QAM	1	0	23.66	23.76	23.76
			25	23.81	23.68	23.54
			49	23.51	23.89	23.63
		25	0	23.53	24.03	24.03
			13	23.74	23.68	23.46
			25	23.81	23.64	23.44
		50	0	23.30	23.61	23.72

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18675/1857.5	18900/1880	19125/1902.5
15MHz	QPSK	1	0	23.41	23.83	23.65
			38	23.69	23.32	23.41
			74	23.29	23.68	23.54
		36	0	23.81	23.87	23.47
			18	23.54	23.37	23.51
			39	23.56	23.64	23.48
		75	0	23.95	23.76	23.73
	16QAM	1	0	23.79	23.71	24.08
			38	24.08	23.78	23.79
			74	23.46	23.91	23.64
		36	0	23.30	23.98	23.69
			18	23.73	23.75	23.49
			39	23.91	23.57	23.48
		75	0	23.58	23.78	23.45

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				18700/1860	18900/1880	19100/1900
20MHz	QPSK	1	0	23.54	23.62	23.86
			50	23.56	23.20	23.26
			99	23.56	23.54	23.48
		50	0	23.91	23.87	23.86
			25	23.43	23.25	23.51
			50	23.55	23.48	23.34
		100	0	24.12	24.02	23.67
	16QAM	1	0	23.90	23.38	24.01
			50	23.82	23.67	23.74
			99	23.72	23.68	23.90
		50	0	23.61	23.94	24.05
			25	23.39	23.67	23.43
			50	23.81	23.72	23.73
		100	0	23.51	23.53	23.90

LTE Band4

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				19965/1711.5	20175/1732.5	20385/1753.5
1.4MHz	QPSK	1	0	23.75	23.25	23.29
			7	23.60	23.50	23.37
			14	23.16	23.49	23.37
		8	0	23.71	23.92	23.33
			4	23.64	23.56	23.82
			7	23.49	23.08	23.41
		15	0	23.50	23.74	23.62
	16QAM	1	0	23.33	24.02	23.31
			7	23.09	23.40	23.43
			14	23.80	23.97	23.87
		8	0	23.36	23.44	23.06
			4	22.87	22.95	23.58
			7	23.14	23.73	23.58
		15	0	23.60	23.54	23.23

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0	23.19	23.40	23.36
			7	23.77	23.53	22.90
			14	23.11	23.01	23.63
		8	0	23.41	23.57	23.24
			4	23.25	23.60	23.36
			7	23.80	23.57	23.54
		15	0	23.74	23.50	23.45
	16QAM	1	0	22.98	23.83	23.69
			7	23.23	23.52	23.22
			14	23.14	23.15	23.69
		8	0	23.49	23.58	23.48
			4	23.29	23.25	23.51
			7	23.85	23.31	23.88
		15	0	23.40	23.29	23.62

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0	23.40	23.39	23.78
			13	23.04	23.62	23.15
			24	23.37	23.79	23.70
		12	0	23.61	23.62	23.36
			6	23.61	23.69	23.77
			13	23.44	23.38	23.69
		25	0	23.71	23.09	23.09
	16QAM	1	0	23.26	23.49	23.11
			13	23.45	23.75	23.40
			24	23.36	23.68	23.39
		12	0	23.49	23.40	23.31
			6	23.56	23.25	23.41
			13	23.17	23.81	23.32
		25	0	23.20	23.30	23.64

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20000/1715	20175/1732.5	20350/1750
10MHz	QPSK	1	0	23.47	23.91	23.60
			25	23.20	23.33	23.00
			49	23.33	23.29	23.61
		25	0	23.53	23.65	23.36
			13	23.32	23.24	23.18
			25	23.67	23.31	23.71
		50	0	23.24	23.68	23.63
	16QAM	1	0	23.19	23.69	23.38
			25	22.86	23.48	23.00
			49	23.33	23.29	23.43
		25	0	23.63	23.72	22.93
			13	23.07	23.48	23.62
			25	23.49	23.73	23.27
		50	0	22.98	23.41	23.79

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20025/1717.5	20175/1732.5	20325/1747.5
15MHz	QPSK	1	0	23.54	23.73	22.95
			38	23.42	23.70	23.21
			74	22.85	23.19	23.42
		36	0	23.49	23.35	23.58
			18	23.32	23.91	23.52
			39	23.38	23.27	23.65
		75	0	23.20	23.03	23.21
	16QAM	1	0	23.15	23.67	23.41
			38	23.25	23.85	23.15
			74	23.58	23.48	23.59
		36	0	23.38	23.71	23.54
			18	23.35	23.69	23.55
			39	23.82	23.82	23.56
		75	0	23.11	23.66	23.54

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0	23.46	23.35	23.55
			50	23.33	23.67	23.21
			99	22.85	23.16	23.68
		50	0	23.10	23.56	23.29
			25	23.28	23.41	23.02
			50	23.40	23.14	23.57
		100	0	23.52	23.42	23.31
	16QAM	1	0	23.47	23.56	23.33
			50	23.05	23.80	23.23
			99	23.83	23.84	23.98
		50	0	23.43	23.98	23.25
			25	23.15	23.21	23.68
			50	23.47	23.91	23.82
		100	0	22.90	23.64	23.66

LTE Band5

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20417/824.7	20530/836.5	20643/848.3
1.4MHz	QPSK	1	0	23.61	23.43	23.76
			2	23.23	23.70	23.04
			5	22.91	23.33	23.28
		3	0	23.20	23.74	23.20
			2	23.42	23.66	23.30
			3	23.37	23.00	23.35
		6	0	23.39	23.50	23.57
	16QAM	1	0	23.25	23.63	23.31
			2	23.21	23.92	23.06
			5	23.79	23.40	23.77
		3	0	23.60	23.91	23.01
			2	23.40	23.20	23.44
			3	23.56	23.91	23.38
		6	0	23.05	23.50	23.62

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20425/826.5	20530/836.5	20635/847.5
3MHz	QPSK	1	0	23.69	23.76	23.61
			7	22.93	23.78	23.33
			14	23.25	23.31	23.63
		8	0	23.06	23.53	23.44
			4	23.58	23.54	23.29
			7	23.38	23.20	23.48
		15	0	23.58	23.06	23.46
	16QAM	1	0	23.64	23.24	22.80
			7	23.56	23.77	23.33
			14	23.53	23.52	23.92
		8	0	23.89	23.89	23.15
			4	23.15	23.44	23.83
			7	23.70	23.71	23.40
		15	0	23.51	23.21	23.85

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20435/826.5	20530/836.5	20625/846.5
5MHz	QPSK	1	0	23.69	23.65	23.64
			13	23.43	23.64	23.20
			24	22.89	23.25	23.48
		12	0	23.36	23.73	23.46
			6	23.27	23.51	23.32
			13	23.43	23.16	23.23
		25	0	23.72	22.99	23.82
	16QAM	1	0	23.60	24.04	23.57
			13	23.23	23.66	23.32
			24	23.52	23.51	23.90
		12	0	23.76	23.68	23.38
			6	23.22	23.39	23.49
			13	23.25	23.75	23.02
		25	0	23.79	23.94	23.33

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20460/829	20530/836.5	20600/844
10MHz	QPSK	1	0	23.73	23.88	23.58
			25	23.43	23.50	23.42
			49	23.17	23.28	23.31
		25	0	23.70	23.83	23.60
			13	23.05	23.62	23.51
			25	23.00	23.39	23.23
		50	0	23.55	22.91	23.66
	16QAM	1	0	23.80	23.61	23.41
			25	23.15	23.66	23.01
			49	23.41	23.67	23.87
		25	0	23.84	23.60	23.59
			13	23.44	23.17	23.13
			25	23.26	23.55	23.26
		50	0	23.69	23.56	23.63

LTE Band7

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20775/2502.5	21100/2535	21425/2567.5
5MHz	QPSK	1	0	23.81	23.76	23.60
			13	23.09	23.63	23.28
			24	23.12	23.15	23.59
		12	0	23.40	23.66	23.65
			6	23.16	23.49	23.25
			13	23.24	23.31	23.28
		25	0	23.69	23.23	23.50
	16QAM	1	0	23.59	23.68	23.47
			13	23.21	23.54	23.00
			24	23.34	23.70	23.66
		12	0	24.09	23.48	23.60
			6	23.65	23.52	23.09
			13	23.61	23.65	23.30
		25	0	23.43	23.55	23.48

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20800/2505	21100/2535	21400/2565
10MHz	QPSK	1	0	23.24	23.40	23.67
			25	23.48	23.67	23.35
			49	22.89	23.10	23.71
		25	0	23.29	23.74	23.02
			13	23.26	23.60	23.42
			25	23.16	23.24	23.76
		50	0	23.22	23.09	23.11
	16QAM	1	0	23.44	23.30	23.42
			25	23.40	23.89	23.26
			49	23.44	23.48	23.78
		25	0	23.52	23.73	23.48
			13	23.26	23.12	23.59
			25	23.87	23.57	23.19
		50	0	23.18	23.38	23.86

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20825/2507.5	21100/2535	21375/2562.5
15MHz	QPSK	1	0	23.60	23.41	23.55
			38	23.53	23.16	23.32
			74	22.93	23.12	23.68
		36	0	23.55	23.54	23.26
			18	23.63	23.49	23.71
			39	23.47	23.39	23.21
		75	0	23.69	23.65	23.74
	16QAM	1	0	23.42	23.70	23.49
			38	23.47	23.85	22.82
			74	23.63	23.62	23.90
		36	0	23.71	23.53	22.92
			18	23.44	23.40	23.64
			39	23.35	23.61	23.61
		75	0	23.37	23.36	23.48

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				20850/2510	21100/2535	21350/2560
20MHz	QPSK	1	0	23.16	23.25	23.20
			50	23.75	23.69	23.07
			99	23.58	23.73	23.48
		50	0	23.49	23.49	23.22
			25	23.67	23.72	23.51
			50	23.50	23.21	23.68
		100	0	23.91	23.83	23.80
	16QAM	1	0	23.61	23.59	23.16
			50	23.64	23.85	23.12
			99	23.92	23.74	23.50
		50	0	23.40	23.67	23.53
			25	23.14	23.29	23.46
			50	23.97	23.33	23.19
		100	0	22.93	23.28	23.37

LTE Band12

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23017/699.7	23095/707.5	23173/715.3
1.4MHz	QPSK	1	0	23.18	23.72	23.34
			2	23.03	23.13	22.77
			5	23.07	23.11	22.75
		3	0	23.37	23.37	23.33
			2	23.09	23.44	23.13
			3	23.07	22.90	23.45
		6	0	22.72	23.12	23.17
	16QAM	1	0	23.28	23.22	22.95
			2	23.03	22.84	23.24
			5	23.15	23.53	23.23
		3	0	23.05	23.16	22.81
			2	23.14	22.74	23.22
			3	22.93	23.29	22.99
		6	0	23.35	22.98	22.88

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23025/700.5	23095/707.5	23165/714.5
3MHz	QPSK	1	0	23.35	23.29	23.17
			7	22.93	23.37	23.05
			14	23.31	23.59	23.47
		8	0	23.20	23.37	22.85
			4	23.24	23.47	23.06
			7	23.00	22.70	23.22
		15	0	23.34	23.12	23.01
	16QAM	1	0	22.76	22.98	22.71
			7	22.95	23.17	23.26
			14	22.89	23.43	23.17
		8	0	23.18	23.39	23.41
			4	23.42	22.76	23.50
			7	22.66	23.03	23.10
		15	0	23.22	22.99	23.16

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23035/701.5	23095/707.5	23155/713.5
5MHz	QPSK	1	0	23.35	23.29	23.39
			13	23.10	23.09	22.84
			24	23.12	23.37	23.14
		12	0	22.84	23.47	23.49
			6	23.18	23.52	23.52
			13	23.15	23.32	23.30
		25	0	23.07	23.22	23.04
	16QAM	1	0	22.89	23.32	22.74
			13	23.16	23.38	22.86
			24	23.20	22.82	23.32
		12	0	23.43	23.00	23.01
			6	23.22	22.96	23.22
			13	22.84	23.06	22.86
		25	0	23.02	23.19	22.99

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23060/704	23095/707.5	23130/711
10MHz	QPSK	1	0	23.29	23.50	23.17
			25	22.81	23.55	23.00
			49	23.20	23.26	23.33
		25	0	23.04	23.56	23.16
			13	23.06	23.32	23.66
			25	23.29	23.23	23.28
		50	0	22.94	22.75	22.82
	16QAM	1	0	23.33	23.15	23.08
			25	23.46	23.34	23.02
			49	23.34	23.37	23.24
		25	0	23.27	23.14	23.20
			13	22.79	23.02	23.08
			25	23.05	23.57	22.99
		50	0	22.77	22.71	23.04

LTE Band13

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23205/779.5	23230/782	23255/784.5
5MHz	QPSK	1	0	23.50	23.33	22.83
			13	22.78	23.68	23.24
			24	23.39	23.06	23.55
		12	0	23.58	22.83	23.47
			6	23.03	23.18	23.09
			13	23.27	22.72	23.11
		25	0	22.67	23.36	23.10
	16QAM	1	0	23.00	23.20	23.13
			13	22.69	23.56	23.45
			24	23.36	23.26	23.30
		12	0	22.91	23.61	23.14
			6	22.85	23.02	23.17
			13	22.99	23.19	23.27
		25	0	23.30	23.49	23.11

/Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23230/782	/	/
10MHz	QPSK	1	0	22.94	/	/
			25	23.28	/	/
			49	23.22	/	/
		25	0	23.18	/	/
			13	23.52	/	/
			25	23.17	/	/
		50	0	23.14	/	/
	16QAM	1	0	23.16	/	/
			25	23.44	/	/
			49	22.97	/	/
		25	0	23.19	/	/
			13	23.43	/	/
			25	23.27	/	/
		50	0	23.45	/	/

LTE Band17

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				23755/706.5	23790/710	23825/713.5
5MHz	QPSK	1	0	23.02	23.18	23.36
			13	23.31	23.23	22.88
			24	23.38	23.23	23.02
		12	0	22.81	23.10	22.95
			6	23.16	23.48	23.57
			13	23.14	23.08	23.32
		25	0	22.77	23.22	22.98
	16QAM	1	0	22.90	22.85	23.23
			13	23.15	22.96	23.39
			24	23.66	22.95	23.33
		12	0	22.91	22.81	22.95
			6	23.25	23.13	23.06
			13	22.73	23.20	23.05
		25	0	23.21	22.93	23.17

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				/	23790/710	/
10MHz	QPSK	1	0	/	23.51	/
			25	/	23.57	/
			49	/	23.24	/
		25	0	/	23.41	/
			13	/	23.08	/
			25	/	23.04	/
		50	0	/	23.33	/
	16QAM	1	0	/	23.25	/
			25	/	23.67	/
			49	/	22.93	/
		25	0	/	23.59	/
			13	/	22.75	/
			25	/	22.84	/
		50	0	/	23.20	/

LTE Band25

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26047/1850.7	26365/1882.5	26683/1914.3
1.4MHz	QPSK	1	0	22.96	23.68	23.62
			2	23.21	23.26	23.13
			5	23.18	23.00	23.21
		3	0	23.10	23.20	23.09
			2	23.25	22.96	23.57
			3	23.18	23.20	23.21
		6	0	23.01	23.21	22.55
	16QAM	1	0	23.23	23.16	22.77
			2	23.08	23.15	22.96
			5	23.48	23.15	23.39
		3	0	23.17	23.23	22.82
			2	23.17	22.62	22.87
			3	22.79	23.04	22.80
		6	0	23.18	22.83	23.46

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26055/1851.5	26365/1882.5	26675/1913.5
3MHz	QPSK	1	0	22.77	23.44	23.02
			7	22.96	23.34	23.24
			14	23.54	22.76	23.26
		8	0	23.15	23.01	23.21
			4	22.92	23.50	23.22
			7	23.08	23.29	23.05
		15	0	22.71	22.75	22.79
	16QAM	1	0	22.96	23.37	22.92
			7	23.31	23.22	23.33
			14	23.51	22.93	23.12
		8	0	23.29	23.03	22.89
			4	22.80	23.09	23.29
			7	22.99	23.53	23.01
		15	0	23.33	23.26	22.76

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26065/1852.5	26365/1882.5	26665/1912.5
5MHz	QPSK	1	0	23.50	23.69	23.33
			13	23.10	23.49	22.70
			24	22.99	22.81	23.14
		12	0	23.12	23.19	23.03
			6	23.03	23.27	23.60
			13	23.01	22.69	23.28
		25	0	23.26	23.01	23.12
	16QAM	1	0	23.20	23.44	22.85
			13	22.92	23.30	22.79
			24	23.08	23.25	23.16
		12	0	23.25	23.50	22.71
			6	22.93	23.05	23.07
			13	23.21	23.59	22.94
		25	0	23.12	22.99	23.17

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26090/1855	26365/1882.5	26640/1910
10MHz	QPSK	1	0	23.37	23.47	23.40
			25	23.05	23.77	23.23
			49	23.61	22.89	23.53
		25	0	23.14	23.28	23.07
			13	22.64	23.12	23.54
			25	23.55	22.56	23.24
		50	0	23.02	23.17	23.14
	16QAM	1	0	23.21	22.87	23.21
			25	22.71	23.54	23.32
			49	23.42	23.28	23.43
		25	0	23.15	23.08	22.95
			13	23.34	23.20	23.00
			25	23.35	23.43	23.03
		50	0	23.02	22.78	23.03

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26115/1857.5	26365/1882.5	26615/1907.5
15MHz	QPSK	1	0	23.28	23.25	23.19
			38	23.34	23.45	23.07
			74	23.41	23.20	23.59
		36	0	23.44	23.65	22.97
			18	22.82	23.51	22.90
			39	23.17	22.49	23.35
		75	0	22.98	23.47	23.03
	16QAM	1	0	23.05	23.38	22.74
			38	22.89	23.15	23.29
			74	23.32	23.43	23.34
		36	0	22.81	23.01	22.76
			18	23.14	23.05	23.10
			39	22.91	23.42	23.39
		75	0	23.11	22.79	23.32

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26140/1860	26365/1882.5	26590/1905
20MHz	QPSK	1	0	23.57	23.38	23.59
			50	22.74	23.36	23.01
			99	23.16	23.63	23.61
		50	0	23.32	23.37	23.39
			25	22.97	23.40	23.18
			50	23.31	22.61	23.37
		100	0	22.92	23.16	23.20
	16QAM	1	0	23.38	23.10	23.25
			50	22.99	23.06	23.05
			99	23.56	23.57	23.24
		50	0	22.94	23.24	23.00
			25	23.47	22.92	22.88
			50	22.82	23.41	22.98
		100	0	22.92	22.95	23.10

LTE Band26 (L)

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26697/814.7	26740/819	26783/823.3
1.4MHz	QPSK	1	0	23.51	23.40	22.90
			2	23.23	23.05	22.97
			5	23.45	23.21	23.01
		3	0	23.08	23.10	23.13
			2	23.16	22.91	22.91
			3	22.93	22.91	23.48
		6	0	23.12	23.37	23.28
	16QAM	1	0	23.13	23.14	22.92
			2	23.24	23.39	23.04
			5	23.27	23.27	22.92
		3	0	22.99	23.08	22.65
			2	22.96	22.93	23.02
			3	22.75	23.48	22.54
		6	0	22.78	23.13	23.11

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26705/815.5	26740/819	26775/822.5
3MHz	QPSK	1	0	23.04	23.44	23.68
			7	22.96	23.38	23.15
			14	23.54	22.90	23.22
		8	0	23.50	23.29	22.83
			4	23.06	23.58	23.29
			7	22.90	22.59	23.27
		15	0	23.00	23.15	22.98
	16QAM	1	0	23.15	23.21	23.17
			7	22.89	23.17	22.81
			14	23.24	23.24	23.31
		8	0	22.76	23.21	22.96
			4	22.95	22.92	22.92
			7	22.56	23.44	22.83
		15	0	23.24	23.23	23.24

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26715/816.5	26740/819	26765/821.5
5MHz	QPSK	1	0	22.98	23.41	22.89
			13	23.25	22.99	23.50
			24	23.37	23.15	22.95
		12	0	23.09	23.25	23.60
			6	23.30	22.88	22.99
			13	23.08	22.87	22.67
		25	0	23.21	23.53	23.16
	16QAM	1	0	23.36	23.43	23.15
			13	23.25	23.36	23.30
			24	23.16	22.95	22.90
		12	0	23.29	23.25	23.06
			6	22.76	23.65	22.98
			13	23.08	22.86	23.21
		25	0	22.98	23.41	22.89

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				/	26740/819	/
10MHz	QPSK	1	0	/	23.50	/
			25	/	23.66	/
			49	/	23.02	/
		25	0	/	23.15	/
			13	/	23.35	/
			25	/	22.74	/
		50	0	/	22.97	/
	16QAM	1	0	/	23.61	/
			25	/	23.49	/
			49	/	23.48	/
		25	0	/	23.28	/
			13	/	23.34	/
			25	/	23.60	/
		50	0	/	23.19	/

LTE Band26 (H)

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26795/824.7	26915/836.5	27033/848.3
1.4MHz	QPSK	1	0	23.37	23.59	23.09
			2	23.02	23.38	23.26
			5	23.25	22.97	23.14
		3	0	23.23	23.52	22.79
			2	22.96	23.34	23.10
			3	23.29	22.58	23.11
		6	0	23.19	22.98	23.16
	16QAM	1	0	23.20	23.17	22.87
			2	23.05	23.08	23.23
			5	23.17	23.25	22.97
		3	0	22.96	23.15	22.68
			2	23.25	23.08	23.40
			3	23.15	23.34	22.61
		6	0	23.39	22.87	23.53

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26815/826.5	26915/836.5	27025/847.5
3MHz	QPSK	1	0	23.13	23.51	23.27
			7	22.87	23.08	23.25
			14	23.18	23.51	23.08
		8	0	23.27	23.46	23.23
			4	23.10	23.31	23.59
			7	22.96	23.18	23.18
		15	0	22.74	23.20	22.87
	16QAM	1	0	22.89	23.10	23.00
			7	23.07	23.00	22.90
			14	23.17	23.56	22.92
		8	0	22.95	23.07	23.04
			4	23.04	22.64	23.34
			7	23.11	23.52	23.44
		15	0	23.32	22.84	22.95

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26815/826.5	26915/836.5	27015/846.5
5MHz	QPSK	1	0	23.44	23.73	23.35
			13	23.19	23.49	23.28
			24	23.50	22.96	23.12
		12	0	23.29	23.06	22.90
			6	23.08	23.19	23.49
			13	23.13	22.58	23.63
		25	0	22.85	23.32	22.53
	16QAM	1	0	23.10	22.86	22.93
			13	23.13	23.34	23.53
			24	23.00	23.02	22.89
		12	0	23.31	22.98	22.88
			6	23.16	22.72	23.39
			13	22.71	23.10	22.77
		25	0	23.23	22.94	22.67

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26840/829	26915/836.5	26990/844
10MHz	QPSK	1	0	22.97	23.28	23.31
			25	23.05	23.04	22.62
			49	23.31	22.78	23.59
		25	0	23.15	23.41	22.83
			13	23.05	23.09	23.37
			25	23.58	22.69	23.23
		50	0	22.83	23.31	22.79
	16QAM	1	0	23.13	23.00	22.96
			25	23.07	22.85	23.24
			49	23.27	23.59	23.22
		25	0	23.26	22.90	23.16
			13	23.43	22.96	22.96
			25	22.97	22.81	23.26
		50	0	22.94	22.71	23.38

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				26865/831.5	26915/836.5	26965/841.5
15MHz	QPSK	1	0	23.18	23.15	23.18
			38	22.79	23.36	23.32
			74	22.87	23.21	23.20
		36	0	23.11	23.54	22.93
			18	23.03	23.25	23.25
			39	23.24	22.81	23.09
		75	0	22.94	23.27	23.25
	16QAM	1	0	22.92	23.40	23.24
			38	22.90	23.08	23.39
			74	23.19	23.16	23.17
		36	0	23.29	23.26	22.82
			18	23.40	22.96	23.34
			39	23.23	23.26	23.00
		75	0	22.73	23.22	23.46

LTE Band41

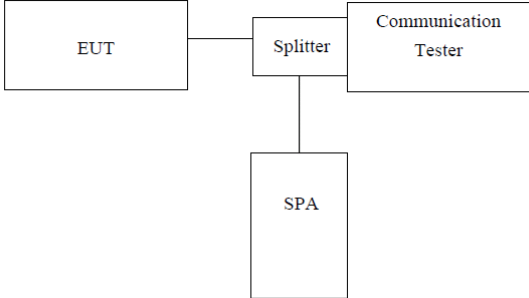
Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				39675/2498.5	40620/2593	41565/2687.5
5MHz	QPSK	1	0	23.15	23.40	23.58
			13	23.24	23.21	22.80
			24	23.28	23.42	23.15
		12	0	23.08	23.23	23.10
			6	23.27	23.23	23.71
			13	23.48	23.18	23.16
		25	0	22.87	22.78	23.19
	16QAM	1	0	23.08	23.01	23.03
			13	23.27	23.32	22.77
			24	23.43	22.97	23.35
		12	0	23.24	22.84	23.05
			6	23.42	22.96	23.16
			13	22.96	23.43	22.68
		25	0	23.35	23.10	22.88

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				39700/2501	40620/2593	41540/2685
10MHz	QPSK	1	0	23.17	23.26	23.57
			25	22.76	23.29	22.98
			49	23.23	23.41	23.20
		25	0	23.32	23.21	23.38
			13	23.01	23.46	23.45
			25	23.42	23.11	23.12
		50	0	22.94	23.23	22.93
	16QAM	1	0	22.86	23.04	22.80
			25	23.03	23.34	23.56
			49	23.21	23.09	23.14
		25	0	23.01	23.20	22.99
			13	22.79	23.40	22.81
			25	23.14	22.98	23.34
		50	0	22.79	23.19	23.06

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				39725/2503.5	40620/2593	41515/2682.5
15MHz	QPSK	1	0	23.00	23.08	23.19
			38	23.35	23.28	23.43
			74	22.91	23.32	23.12
		36	0	23.22	23.17	23.15
			18	23.35	23.19	23.51
			39	23.14	22.89	23.55
		75	0	22.91	23.05	22.68
	16QAM	1	0	22.60	23.06	23.18
			38	23.37	23.24	23.02
			74	23.01	23.01	23.08
		36	0	23.00	23.48	23.04
			18	22.88	22.85	22.76
			39	22.85	23.42	22.85
		75	0	23.05	23.10	23.04

Bandwidth	Modulation	RB size	RB offset	Output Power (dBm) for low/mid/high channel		
				39750/2506	40620/2593	41490/2680
20MHz	QPSK	1	0	23.28	23.62	23.08
			50	23.13	23.14	23.47
			99	23.20	23.36	23.18
		50	0	23.69	23.15	22.81
			25	23.22	23.57	23.22
			50	23.33	22.93	23.08
		100	0	22.84	23.03	22.85
	16QAM	1	0	23.05	23.04	22.80
			50	23.41	23.13	22.99
			99	23.32	23.31	23.14
		50	0	23.11	23.17	22.95
			25	23.24	23.16	23.22
			50	23.16	23.65	22.70
		100	0	22.76	23.35	23.10

4.4 Peak-to-Average Ratio

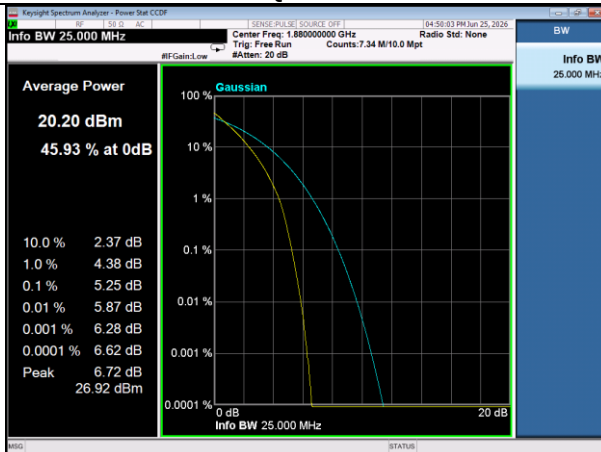
Test Requirement:	Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5)
Test Method:	ANSI C63.26:2015
Test Limit:	Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time
Test setup:	 <pre> graph LR EUT[EUT] --- Splitter[Splitter] Splitter --- CT[Communication Tester] Splitter --- SPA[SPA] </pre> <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 2. The EUT was connected to spectrum and system simulator via a power divider 3. Using the CCDF measurement of spectrum analyzer; 4. Set $RBW \geq OBW$ or specified reference bandwidth; 5. Set the number of counts to a value that stabilizes the measured CCDF curve; 6. Set the measurement interval as 1ms 7. Record the maximum PAPR level associated with a probability of 0.1%.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Test plots are listed as below:

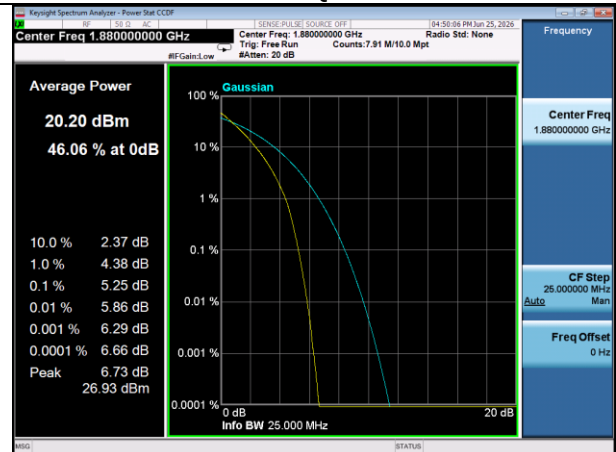
Test mode	Peak to Average Ratio (dB)	Limit (dB)	Result
LTE Band 2 Middle channel/20MHz/QPSK	5.25	13	Pass
LTE Band 2 Middle channel/20MHz/16-QAM	5.25	13	Pass
LTE Band 4 Middle channel/20MHz/QPSK	5.18	13	Pass
LTE Band 4 Middle channel/20MHz/16-QAM	5.17	13	Pass
LTE Band 5 Middle channel/10MHz/QPSK	5.00	13	Pass
LTE Band 5 Middle channel/10MHz/16-QAM	5.00	13	Pass
LTE Band 7 Middle channel/20MHz/QPSK	5.12	13	Pass
LTE Band 7 Middle channel/20MHz/16-QAM	5.11	13	Pass
LTE Band 12 Middle channel/10MHz/QPSK	4.78	13	Pass
LTE Band 12 Middle channel/10MHz/16-QAM	4.78	13	Pass
LTE Band 13 Middle channel/10MHz/QPSK	4.64	13	Pass
LTE Band 13 Middle channel/10MHz/16-QAM	4.63	13	Pass
LTE Band 17 Middle channel/10MHz/QPSK	5.69	13	Pass
LTE Band 17 Middle channel/10MHz/16-QAM	5.68	13	Pass
LTE Band 25 Middle channel/20MHz/QPSK	5.18	13	Pass
LTE Band 25 Middle channel/20MHz/16-QAM	5.18	13	Pass
LTE Band 26(L) Middle channel/15MHz/QPSK	4.72	13	Pass
LTE Band 26(L) Middle channel/15MHz/16-QAM	4.72	13	Pass
LTE Band 26(H) Middle channel/15MHz/QPSK	5.51	13	Pass
LTE Band 26(H) Middle channel/15MHz/16-QAM	5.51	13	Pass
LTE Band 41 Middle channel/20MHz/QPSK	8.81	13	Pass
LTE Band 41 Middle channel/20MHz/16-QAM	8.66	13	Pass

Note: 1. All channels have been tested, and only worst data was listed in this report. (Middle channel)

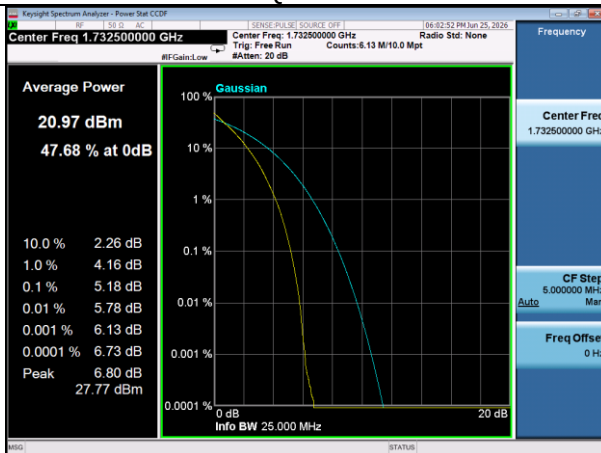
Test Mode: LTE Band 2
Middle channel/20MHz/QPSK



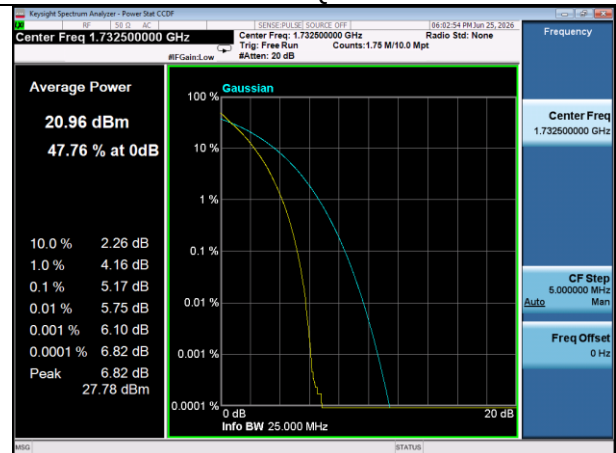
Test Mode: LTE Band 2
Middle channel/20MHz/16-QAM



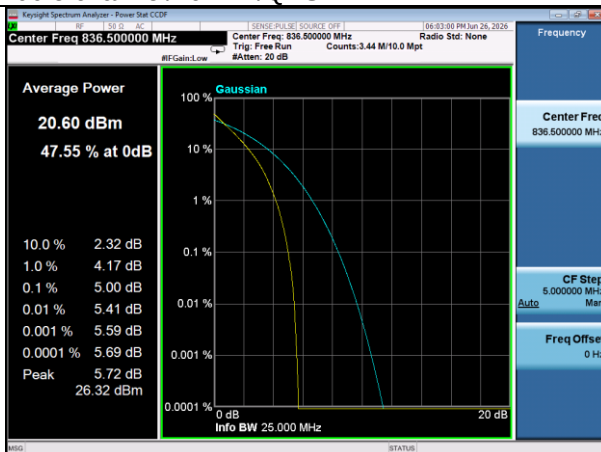
Test Mode: LTE Band 4
Middle channel/20MHz/QPSK



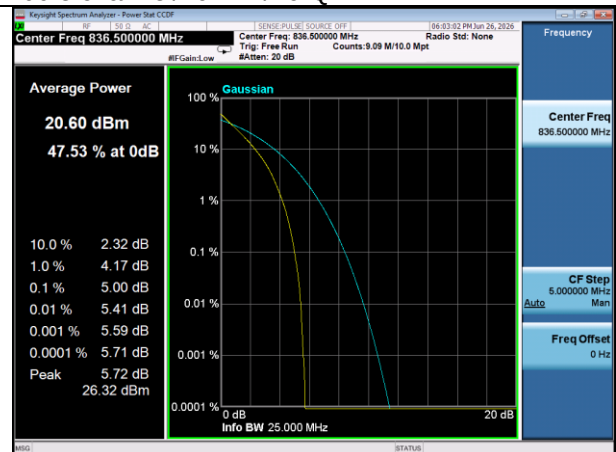
Test Mode: LTE Band 4
Middle channel/20MHz/16-QAM



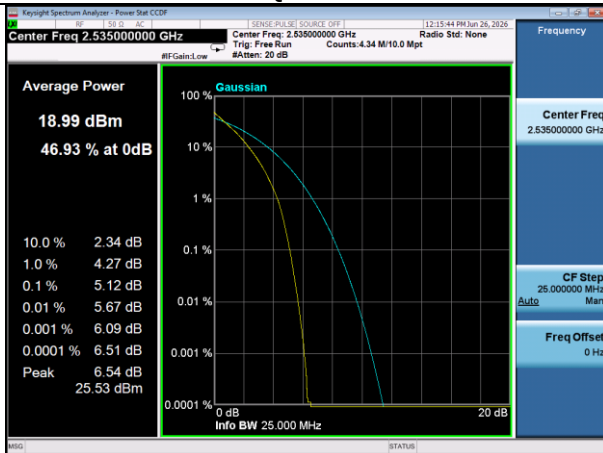
Test Mode: LTE Band 5
Middle channel/10MHz/QPSK



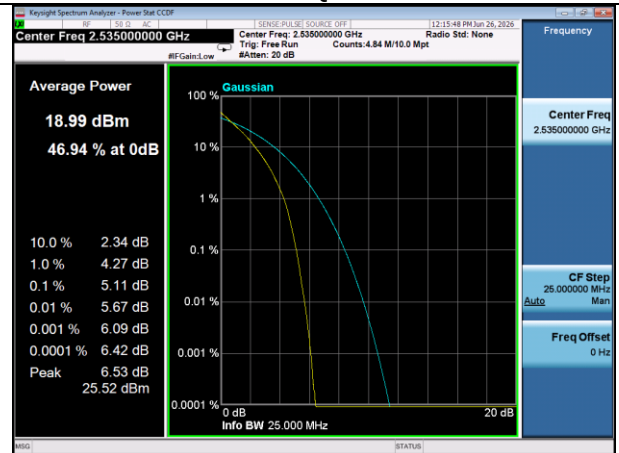
Test Mode: LTE Band 5
Middle channel/10MHz/16-QAM



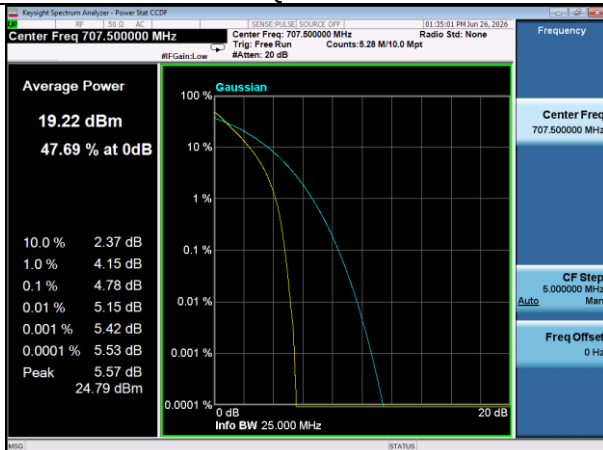
Test Mode: LTE Band 7
Middle channel/20MHz/QPSK



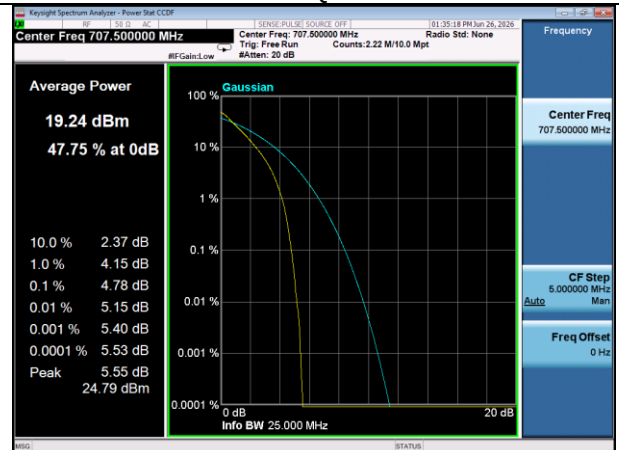
Test Mode: LTE Band 7
Middle channel/20MHz/16-QAM



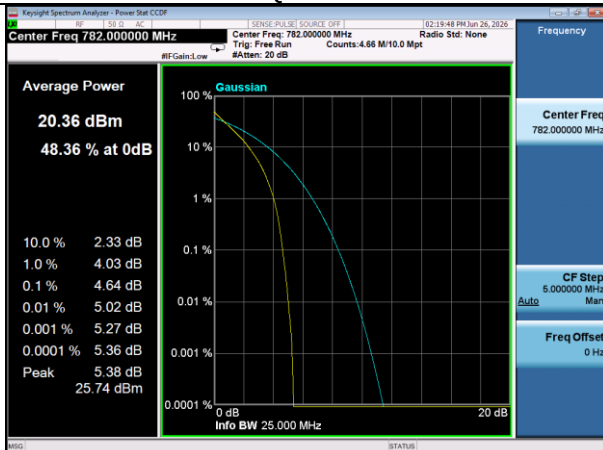
Test Mode: LTE Band 12
Middle channel/10MHz/QPSK



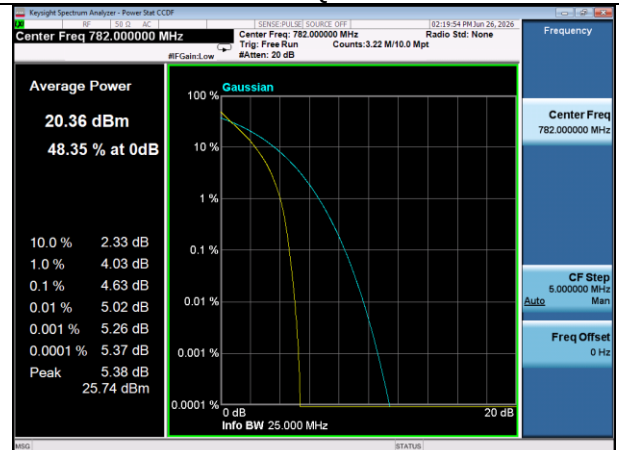
Test Mode: LTE Band 12
Middle channel/10MHz/16-QAM



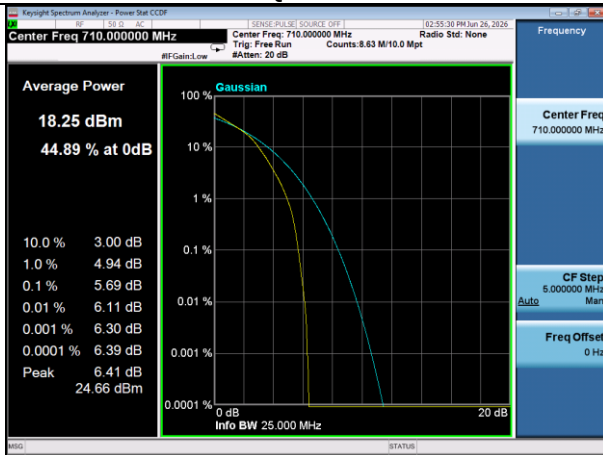
Test Mode: LTE Band 13
Middle channel/10MHz/QPSK



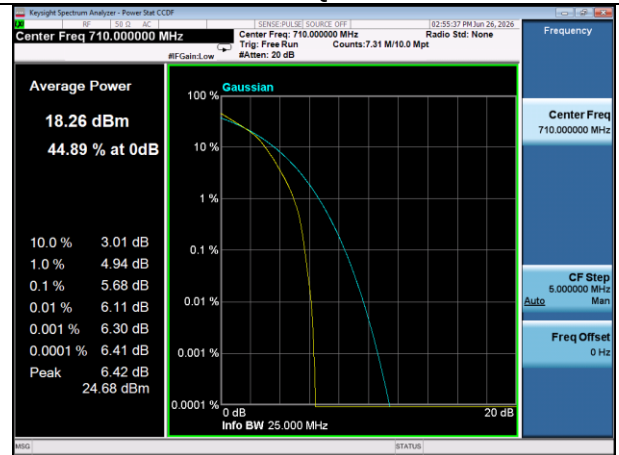
Test Mode: LTE Band 13
Middle channel/10MHz/16-QAM



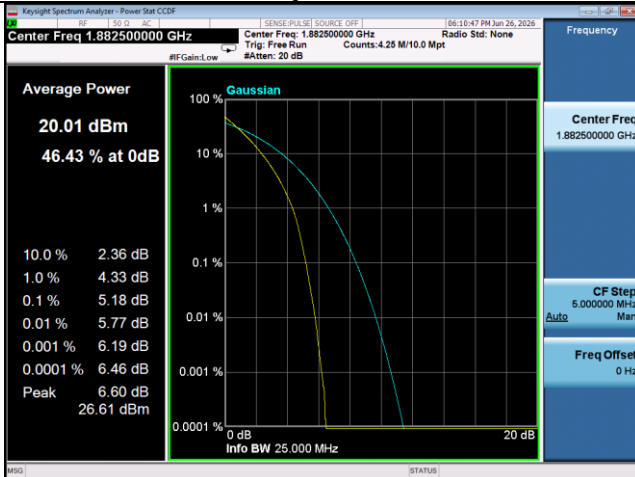
Test Mode: LTE Band 17
Middle channel/10MHz/QPSK



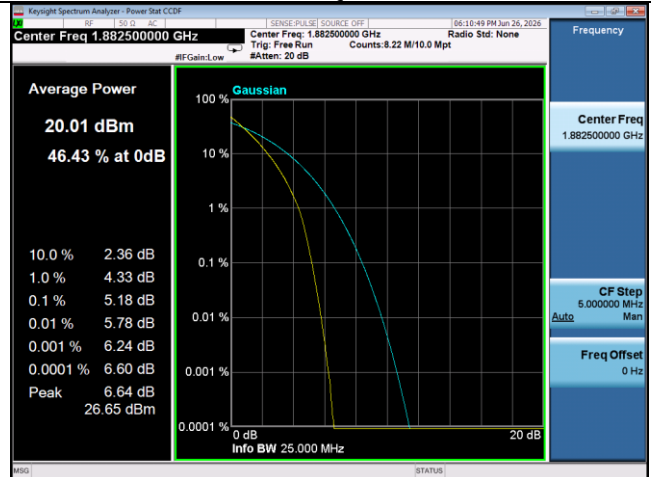
Test Mode: LTE Band 17
Middle channel/10MHz/16-QAM



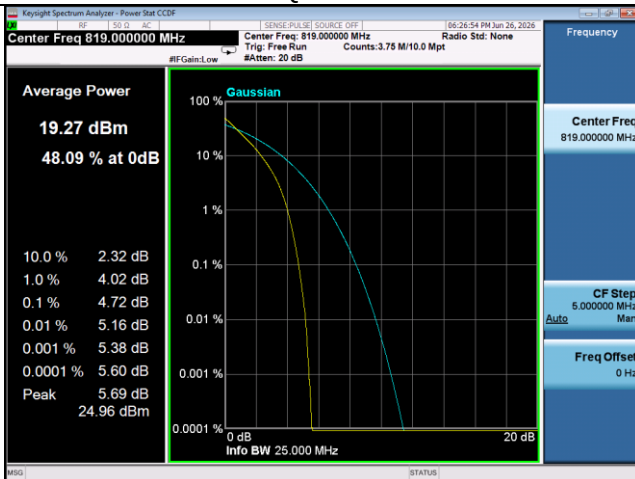
Test Mode: LTE Band 25
Middle channel/20MHz/QPSK



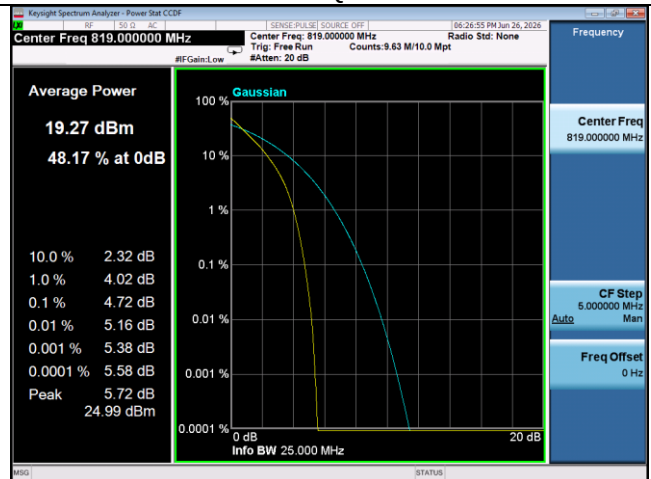
Test Mode: LTE Band 25
Middle channel/20MHz/16-QAM



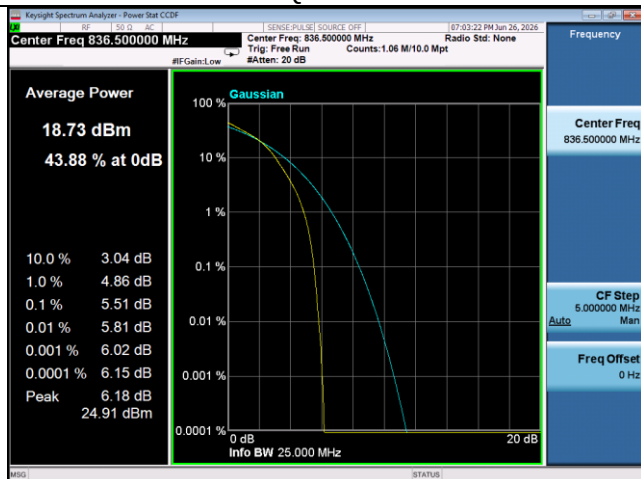
Test Mode: LTE Band 26(L)
Middle channel/10MHz/QPSK



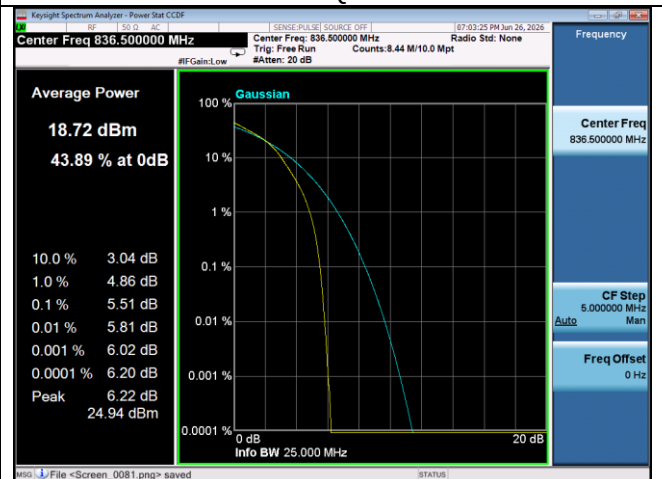
Test Mode: LTE Band 26(L)
Middle channel/10MHz/16-QAM



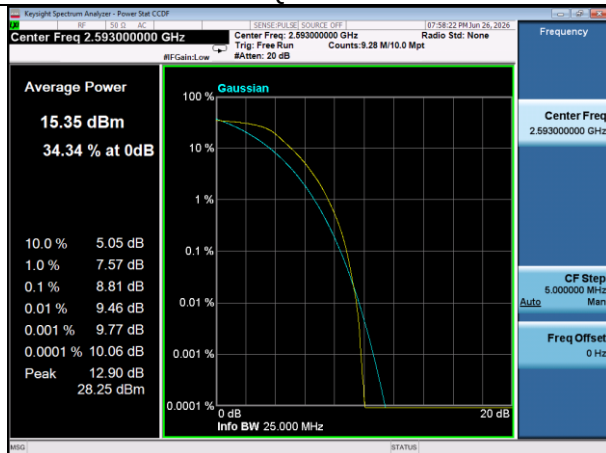
Test Mode: LTE Band 26(H)
Middle channel/10MHz/QPSK



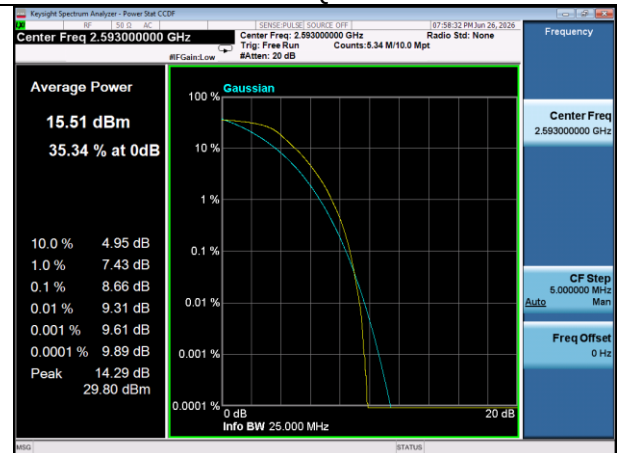
Test Mode: LTE Band 26(H)
Middle channel/10MHz/16-QAM



Test Mode: LTE Band 41
Middle channel/20MHz/QPSK

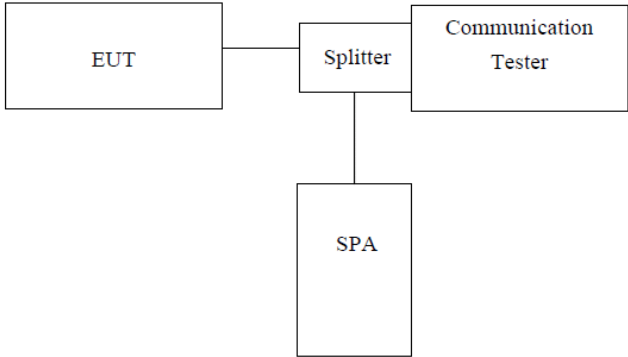


Test Mode: LTE Band 41
Middle channel/20MHz/16-QAM



Note: All bandwidth and modulation are tested, only the worst results are reported.

4.5 Occupy Bandwidth

Test Requirement:	FCC part22.913(a), FCC part24.232(b) and FCC part27.53(a), FCC part 90.209
Test Method:	ANSI C63.26:2015
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer, set center frequency to channel center frequency. 2. RBW was set to about 1%-5% of emission OBW, VBW$\geq$ 3 X RBW. 3. Set spectrum analyzer detection mode to peak, and the trace mode to max hold. 4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the "-26dB amplitude" as equal to reference value -26dB.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

Band2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	18900	1880	1.1003	1.311
		3	18900	1880	2.7434	3.057
		5	18900	1880	4.4945	4.989
		10	18900	1880	8.9246	9.602
		15	18900	1880	13.434	14.65
		20	18900	1880	17.857	19.14
	16QAM	1.4	18900	1880	1.0977	1.301
		3	18900	1880	2.7271	3.048
		5	18900	1880	4.5024	4.948
		10	18900	1880	8.9185	9.526
		15	18900	1880	13.401	14.61
		20	18900	1880	17.831	19.08

Band4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	20175	1732.5	1.1002	1.291
		3	20175	1732.5	2.7355	3.050
		5	20175	1732.5	4.5207	5.029
		10	20175	1732.5	8.9379	9.746
		15	20175	1732.5	13.440	14.73
		20	20175	1732.5	17.881	19.08
	16QAM	1.4	20175	1732.5	1.0998	1.279
		3	20175	1732.5	2.7288	3.052
		5	20175	1732.5	4.5141	5.009
		10	20175	1732.5	8.9350	9.722
		15	20175	1732.5	13.451	14.66
		20	20175	1732.5	17.867	19.10

Band5						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	20525	836.5	1.0957	1.294
		3	20525	836.5	2.7342	3.063
		5	20525	836.5	4.4930	4.991
		10	20525	836.5	8.9309	9.756
	16QAM	1.4	20525	836.5	1.0939	1.282
		3	20525	836.5	2.7357	3.058
		5	20525	836.5	4.4920	4.970
		10	20525	836.5	8.9200	9.656

Band7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	21100	2535	4.5135	5.016
		10	21100	2535	8.9353	9.719
		15	21100	2535	13.452	14.70
		20	21100	2535	17.858	19.25
	16QAM	5	21100	2535	4.5163	4.983
		10	21100	2535	8.9272	9.714
		15	21100	2535	13.449	14.64
		20	21100	2535	17.873	19.05

Band12						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	23095	707.5	1.0954	1.284
		3	23095	707.5	2.7319	3.043
		5	23095	707.5	4.4984	4.987
		10	23095	707.5	8.9336	9.717
	16QAM	1.4	23095	707.5	1.0957	1.303
		3	23095	707.5	2.7245	3.026
		5	23095	707.5	4.5085	4.976
		10	23095	707.5	8.9295	9.684

Band13						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	23230	782	4.5130	4.961
		10	23230	782	8.9369	9.746
	16QAM	5	23230	782	4.5137	4.989
		10	23230	782	8.9423	9.714

Band17						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	23790	710	4.4904	4.981
		10	23790	710	8.9186	9.728
	16QAM	5	23790	710	4.5168	5.016
		10	23790	710	8.9100	9.552

Band25						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26365	1882.5	1.0951	1.291
		3	26365	1882.5	2.7395	3.068
		5	26365	1882.5	4.4913	4.991
		10	26365	1882.5	8.9284	9.767
		15	26365	1882.5	13.412	14.58
		20	26365	1882.5	17.854	19.12
	16QAM	1.4	26365	1882.5	1.0874	1.283
		3	26365	1882.5	2.7329	3.043
		5	26365	1882.5	4.4909	4.953
		10	26365	1882.5	8.9285	9.711
		15	26365	1882.5	13.401	14.58
		20	26365	1882.5	17.854	19.03

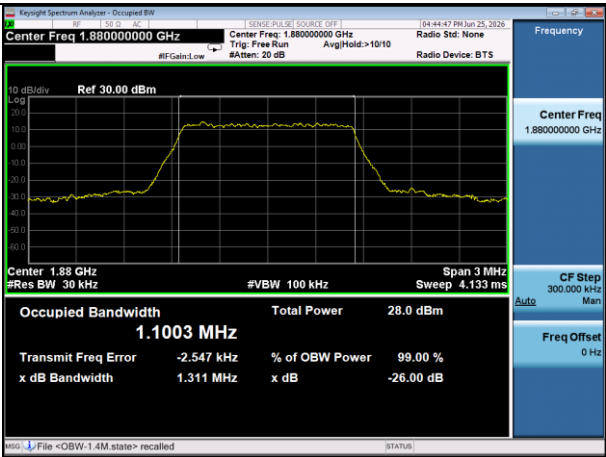
Band26(L)						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26740	819	1.0983	1.311
		3	26740	819	2.7347	3.065
		5	26740	819	4.4866	4.973
		10	26740	819	8.9328	9.693
	16QAM	1.4	26740	819	1.0954	1.280
		3	26740	819	2.7354	3.054
		5	26740	819	4.4905	4.973
		10	26740	819	8.9204	9.673

Band26(H)						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	26915	836.5	1.1037	1.281
		3	26915	836.5	2.7345	3.043
		5	26915	836.5	4.4950	4.945
		10	26915	836.5	8.9273	9.718
		15	26915	836.5	13.445	14.59
	16QAM	1.4	26915	836.5	1.0997	1.281
		3	26915	836.5	2.7311	3.061
		5	26915	836.5	4.4928	4.922
		10	26915	836.5	8.9333	9.724
		15	26915	836.5	13.432	14.51

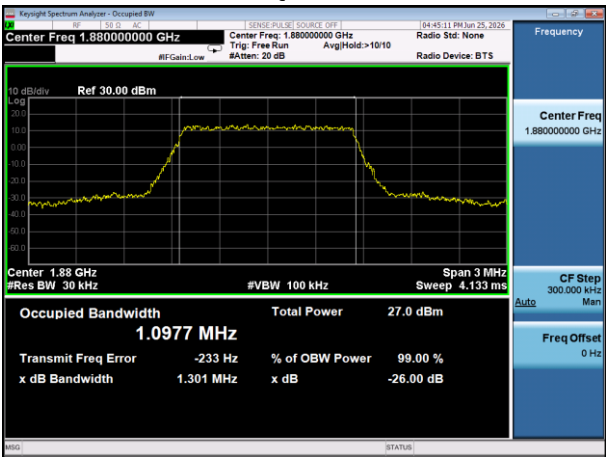
Band41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	40620	2593	4.4893	5.024
		10	40620	2593	8.9222	9.700
		15	40620	2593	13.432	14.68
		20	40620	2593	17.898	19.57
100%	16QAM	5	40620	2593	4.5017	4.974
		10	40620	2593	8.9306	9.625
		15	40620	2593	13.438	14.64
		20	40620	2593	17.894	19.20

Test plot as follows:

Test Mode: LTE Band 2
Channel Bandwidth: 1.4MHz

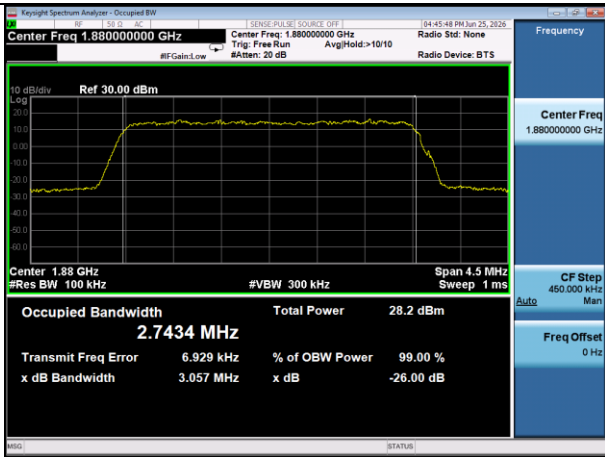


QPSK

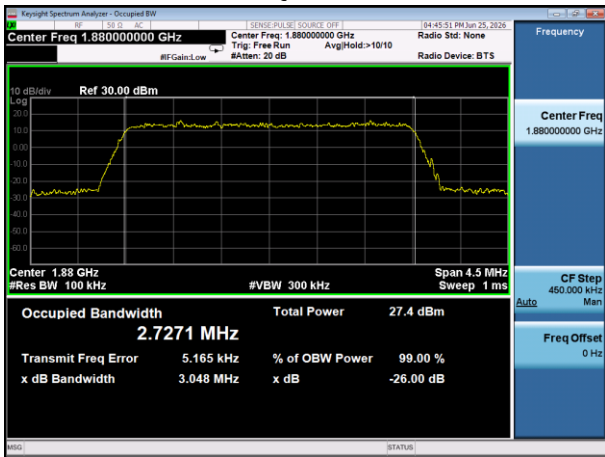


16-QAM

Test Mode: LTE Band 2
Channel Bandwidth: 3MHz



QPSK



16-QAM